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A.1 RADIATED EMISSION

Test Date	2018/01/31	Temp./Hum.	22°C/58%
Test Voltage	DC 3.3V (Via Notebook PC)		

A.1.1 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-HT20	UNII Band	III
		Frequency	TX 5785MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
30.97	24.27	1.22	6.62	32.11	40.00	7.89	Peak
53.28	13.98	1.63	16.49	32.10	40.00	7.90	Peak
499.48	23.14	6.42	9.47	39.03	46.00	6.97	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
145.43	17.40	2.78	13.70	33.88	40.00	6.12	Peak
241.46	18.63	3.74	14.49	36.86	46.00	9.14	Peak
431.58	22.43	5.85	9.41	37.69	46.00	8.31	Peak

A.1.2 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 5745MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
1194.00	28.06	4.66	8.21	40.93	54.00	13.07	Peak
1594.00	28.72	5.44	6.54	40.70	54.00	13.30	Peak
11490.00	38.48	16.13	-5.37	49.24	54.00	4.76	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
1196.00	28.06	4.69	10.51	43.26	54.00	10.74	Peak
1492.00	28.00	5.32	9.60	42.92	54.00	11.08	Peak
11490.00	38.48	16.13	-4.93	49.68	54.00	4.32	Peak

Mode	802.11n-HT20	UNII Band	III
		Frequency	TX 5785MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
1194.00	28.06	4.66	8.67	41.39	54.00	12.61	Peak
1396.00	28.02	5.04	7.99	41.05	54.00	12.95	Peak
11570.00	38.56	16.20	-5.32	49.44	54.00	4.56	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dB μ V)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector
1194.00	28.06	4.66	8.18	40.90	54.00	13.10	Peak
1444.00	28.01	5.18	11.71	44.90	54.00	9.10	Peak
11570.00	38.56	16.20	-3.94	50.82	54.00	3.18	Peak

Mode	802.11n-HT40	UNII Band	III
		Frequency	TX 5755MHz

Antenna at Horizontal Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
1194.00	28.06	4.66	8.47	41.19	54.00	12.81	Peak
1432.00	28.01	5.14	8.54	41.69	54.00	12.31	Peak
11510.00	38.50	16.14	-4.38	50.26	54.00	3.74	Peak

Antenna at Vertical Polarization

Emission Frequency (MHz)	Antenna Factor (dB/m)	Cable Loss (dB)	Meter Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector
1198.00	28.06	4.69	10.43	43.18	54.00	10.82	Peak
1486.00	28.00	5.32	10.63	43.95	54.00	10.05	Peak
11510.00	38.50	16.14	-4.66	49.98	54.00	4.02	Peak

A.1.3 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.

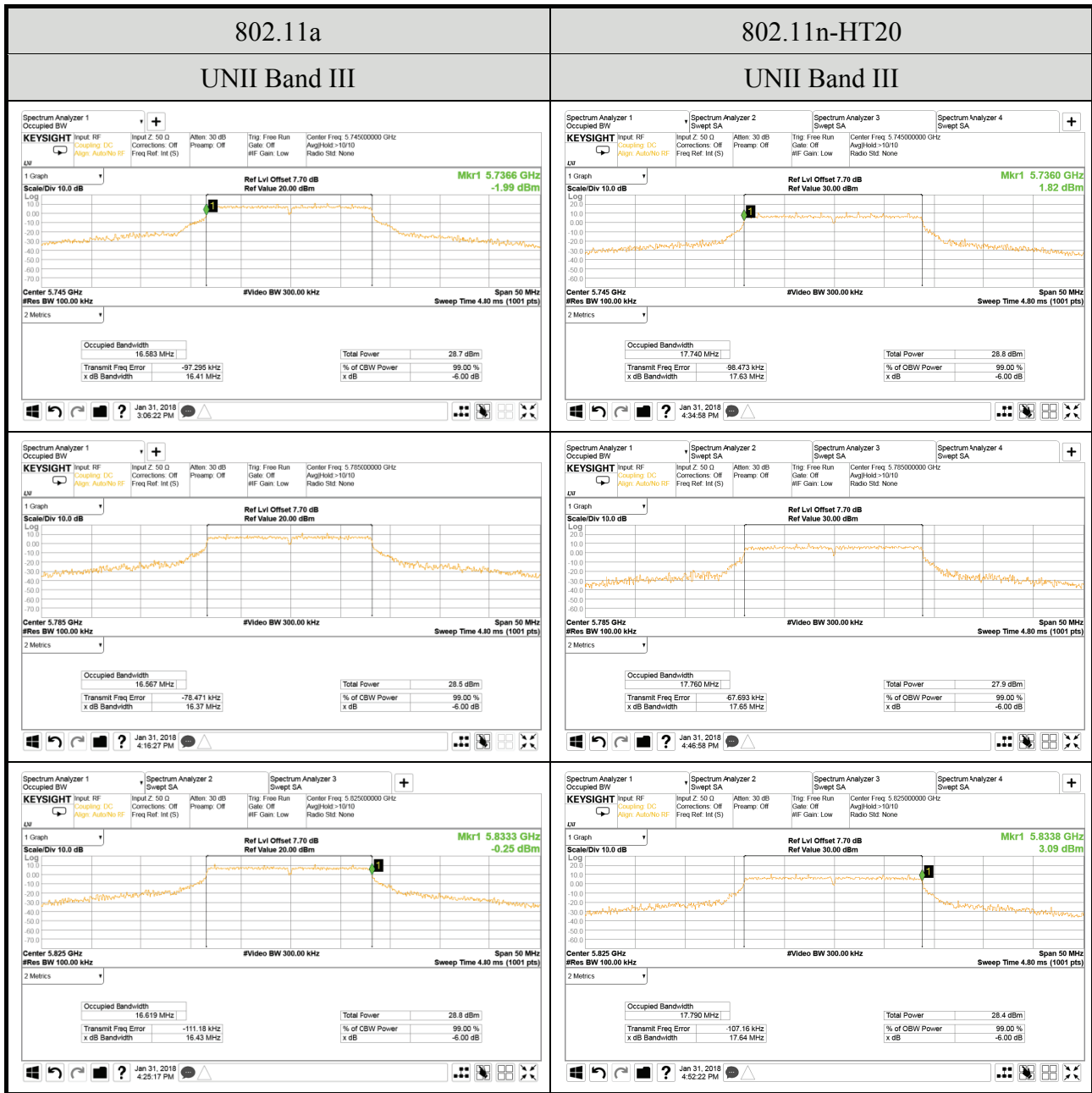
A.2 EMISSION BANDWIDTH

Test Date	2018/01/31	Temp./Hum.	23°C/55%
Cable Loss	---	Test Voltage	DC 3.3V (Via Notebook PC)

A.2.1 Emission Bandwidth Result

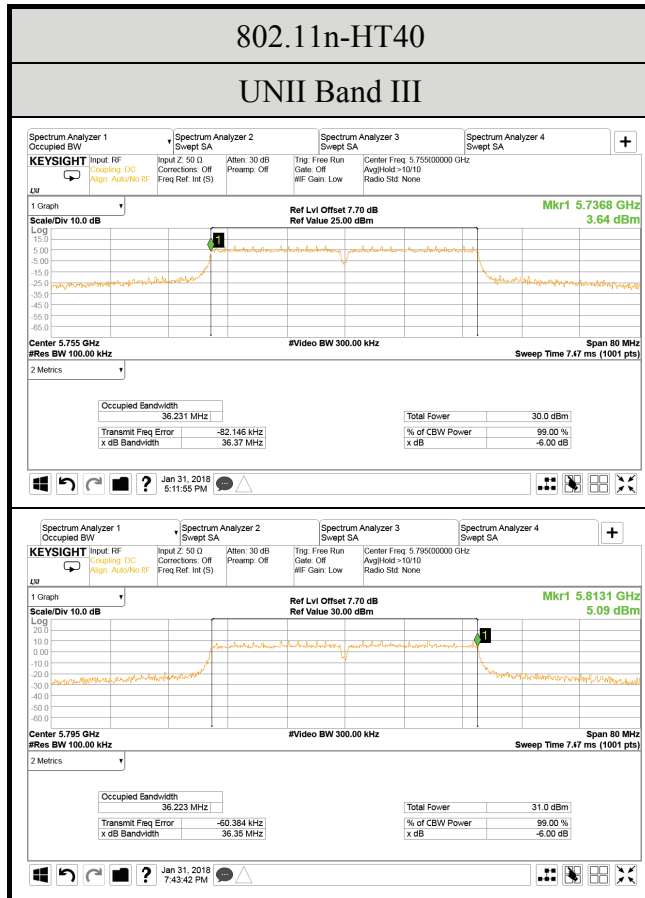
Mode	UNII Band	Centre Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Limit
802.11a	III	5745	16.41	16.583	≥ 500kHz
		5785	16.37	16.567	
		5825	16.43	16.619	
802.11n- HT20	III	5745	17.63	17.740	
		5785	17.65	17.760	
		5825	17.64	17.790	
802.11n- HT40	III	5755	36.37	36.231	
		5795	36.35	36.223	

A.2.2 Measurement Plots



Audix Technology Corp.
 No. 53-11, Dingfu, Linkou, Dist.,
 New Taipei City 244, Taiwan

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



A.3 MAXIMUM OUTPUT POWER

Test Date	2018/01/31	Temp./Hum.	25°C/55%
Cable Loss	4.7dB	Test Voltage	DC 3.3V (Via Notebook PC)

A.3.1 Average Output Power

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	III	5745	15.72	15.92	0.32	19.15	0.082	< 1 W (30 dBm)
		5785	15.42	16.04		19.07	0.081	
		5825	15.38	15.82		18.93	0.078	

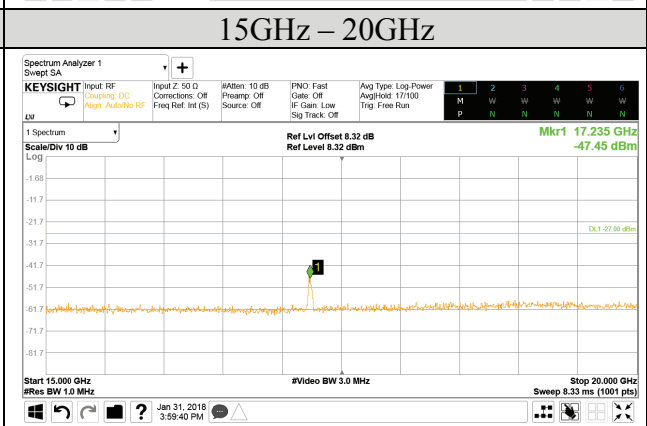
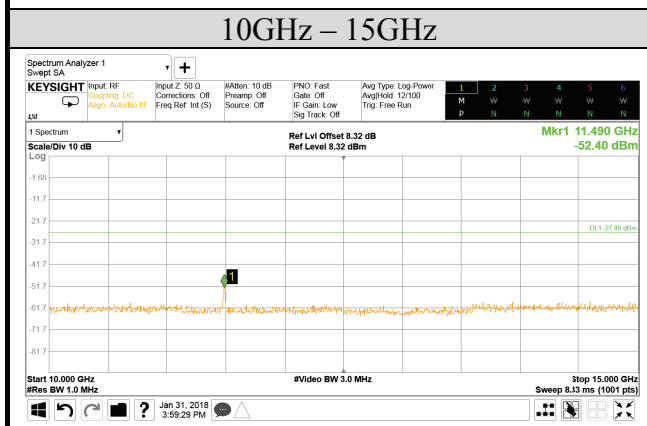
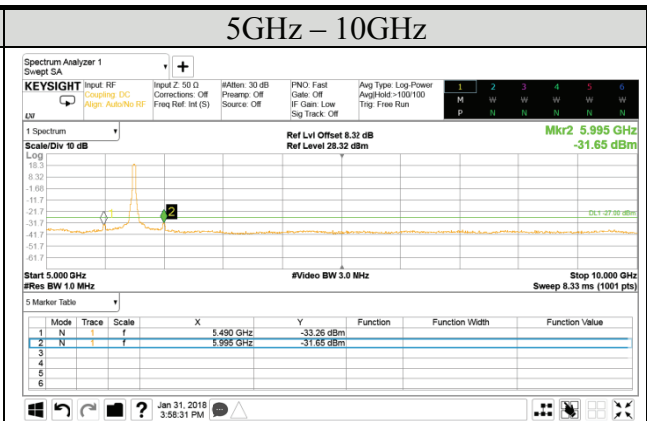
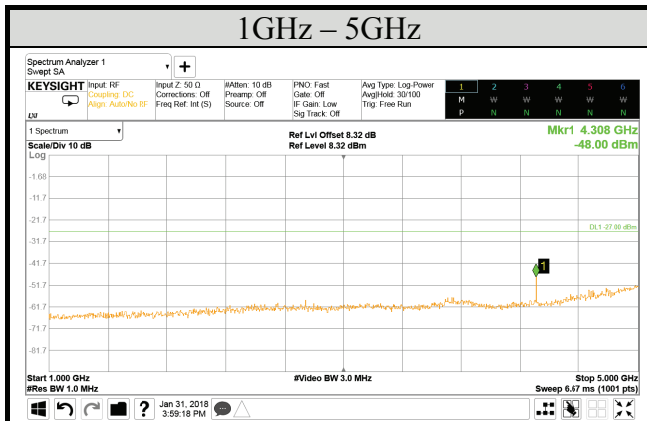
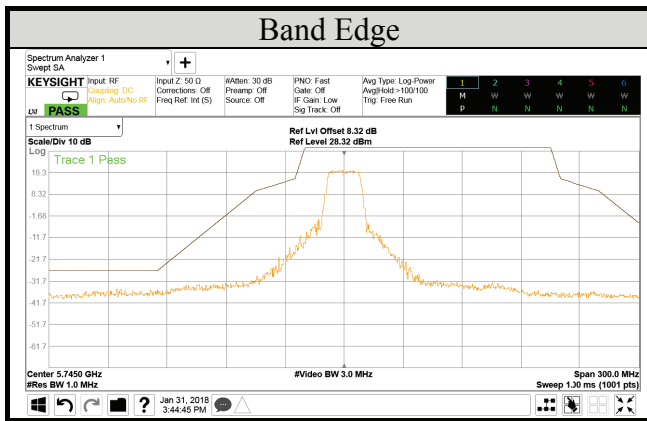
Mode	UNII Band	Centre Frequency (MHz)	Average Output Power(dBm)		10log (1/X)	Total Average Output Power		Limit
			Chain 0	Chain 1		(dBm)	(W)	
802.11n- HT20	III	5745	15.74	15.92	0.32	19.16	0.082	< 1 W (30 dBm)
		5785	15.78	16.12		19.28	0.085	
		5825	15.82	15.89		19.18	0.083	

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- HT40	III	5755	15.43	15.61	0.60	19.14	0.082	< 1 W (30 dBm)
		5795	15.39	15.51		19.07	0.081	

Note: The results have been included cable loss.

A.4 EMISSION LIMITATIONS MEASUREMENT

Test Date	2018/01/31	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	III
Cable Loss	4.7dB	Frequency	TX 5745MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	DC 3.3V (Via Notebook PC)
			3

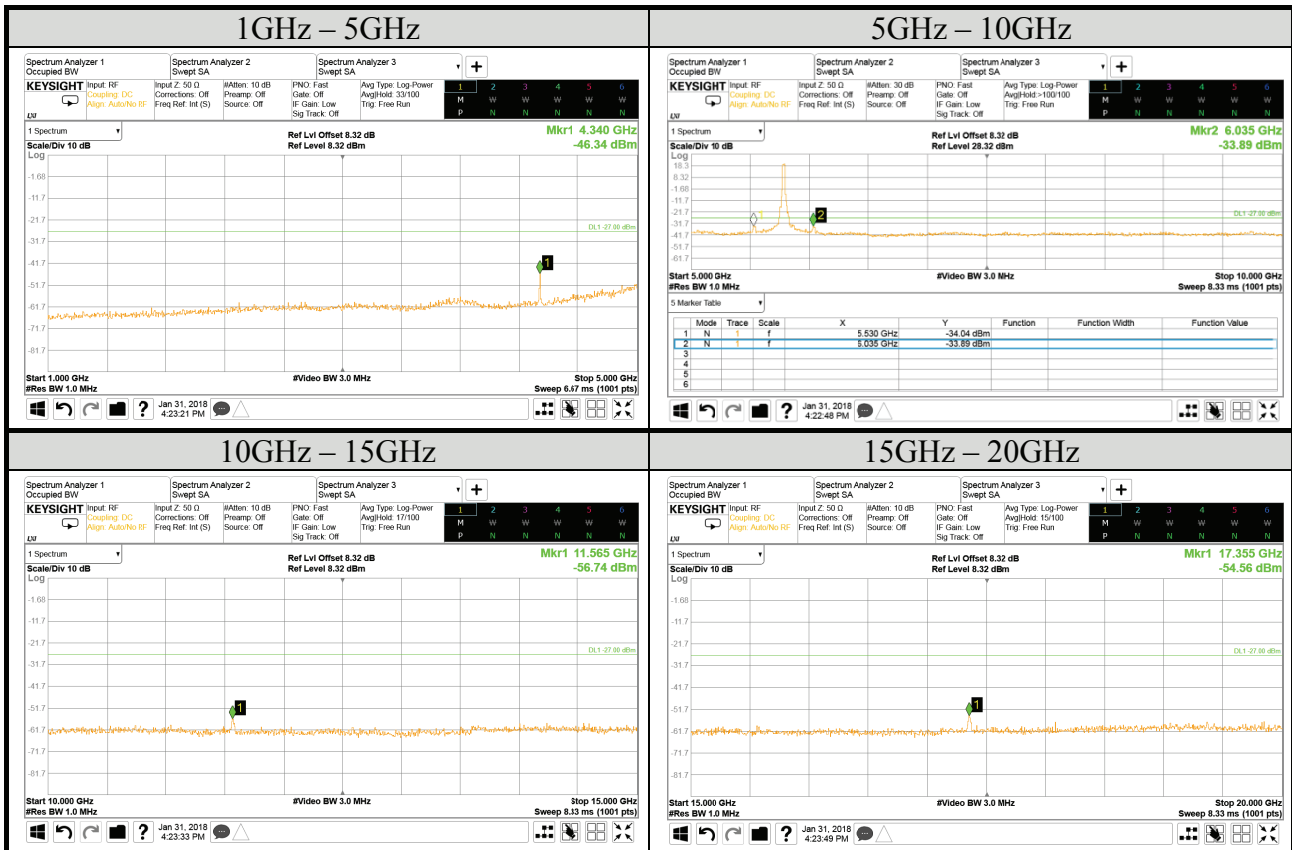




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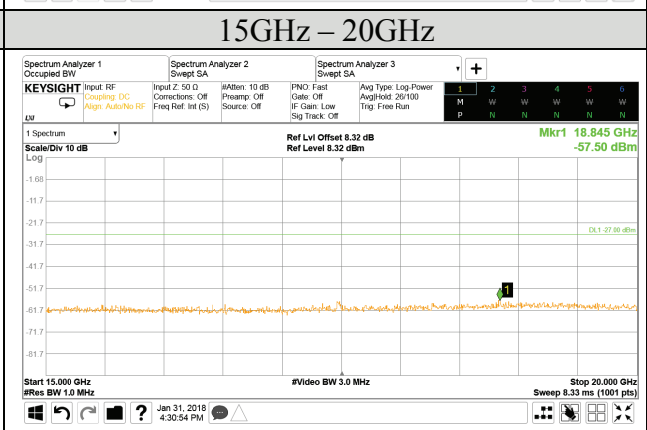
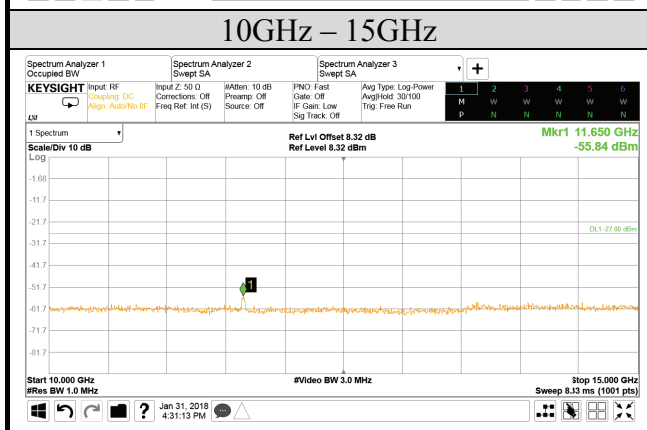
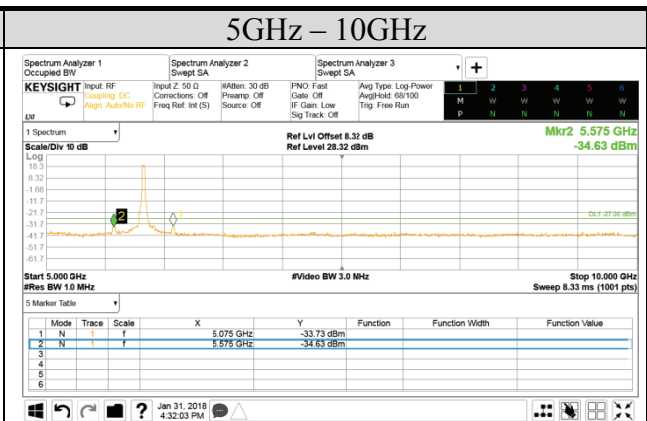
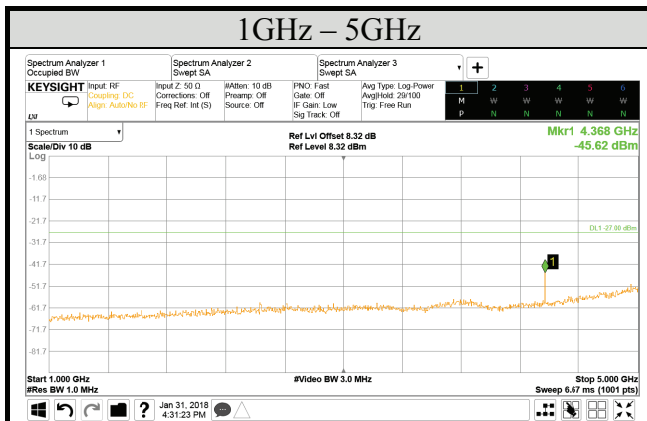
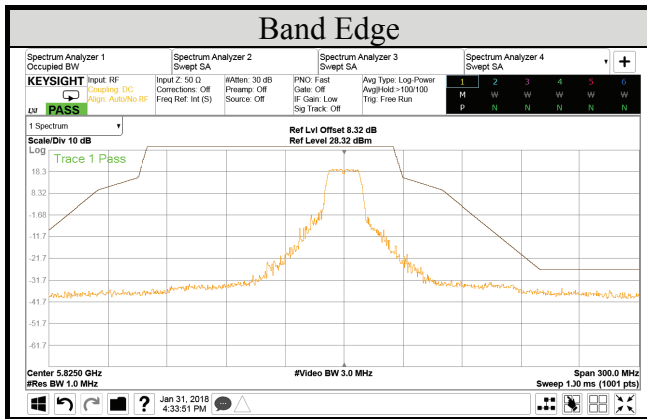
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Fax: +886 2 26099303

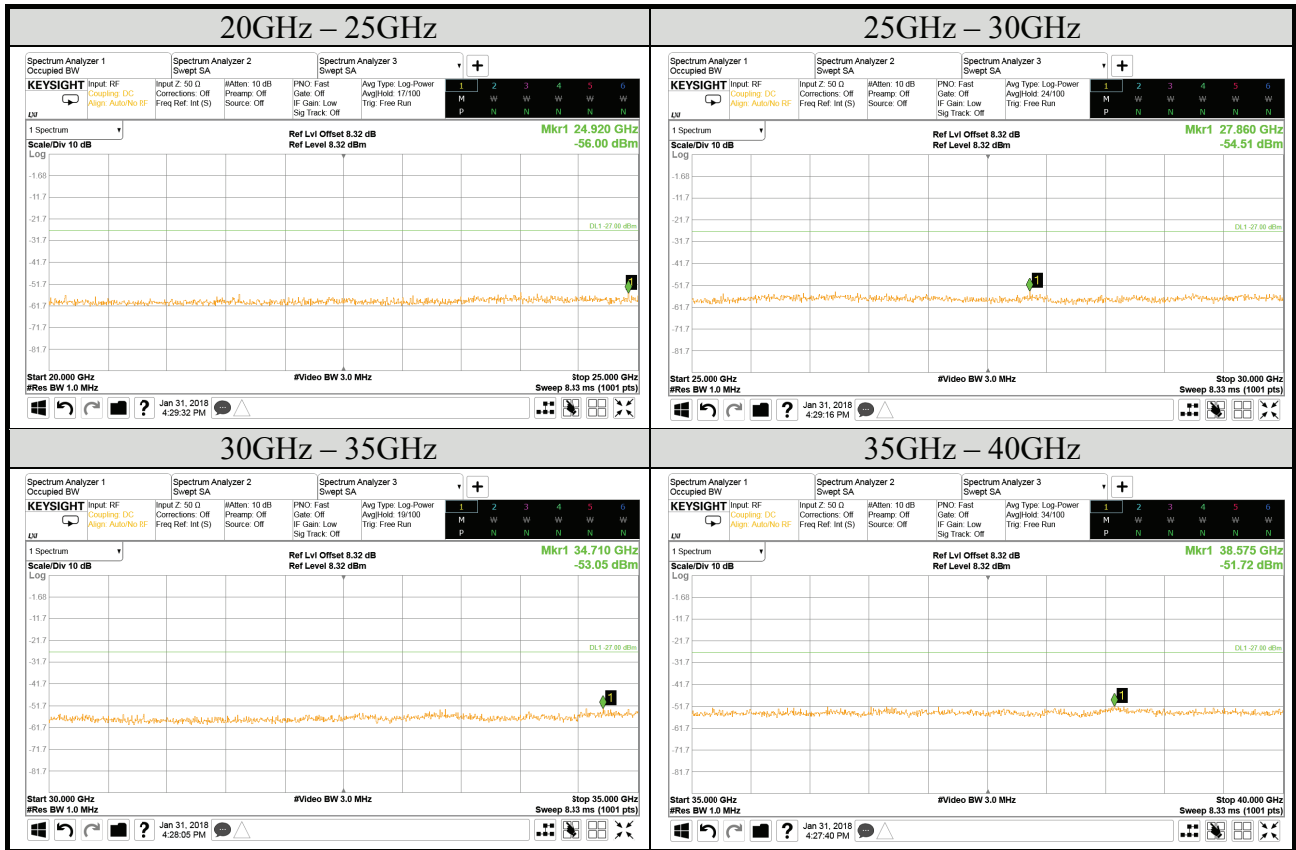
Test Date	2018/01/31	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	III
Cable Loss	4.7dB	Frequency	TX 5785MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	DC 3.3V (Via Notebook PC)
			3



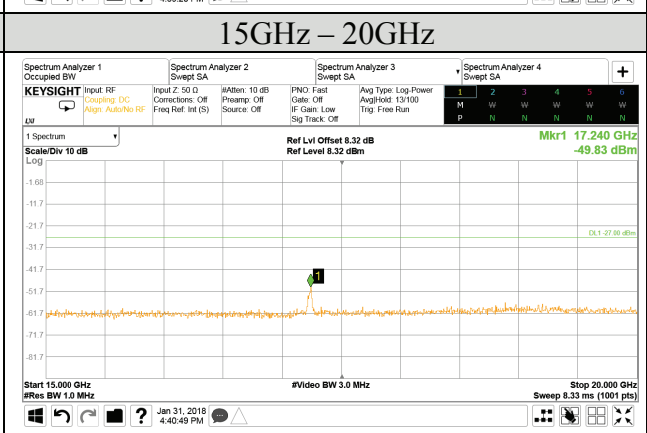
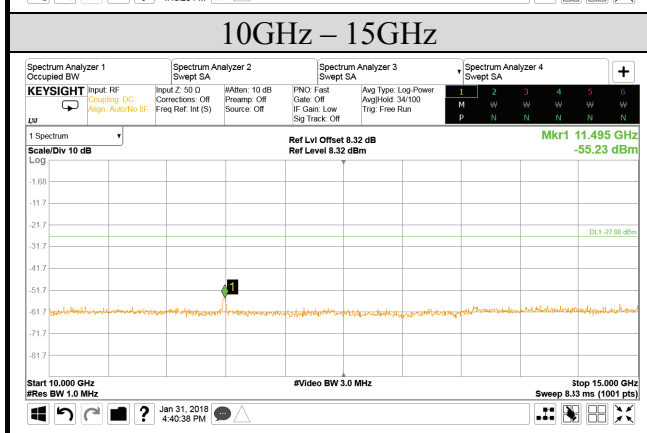
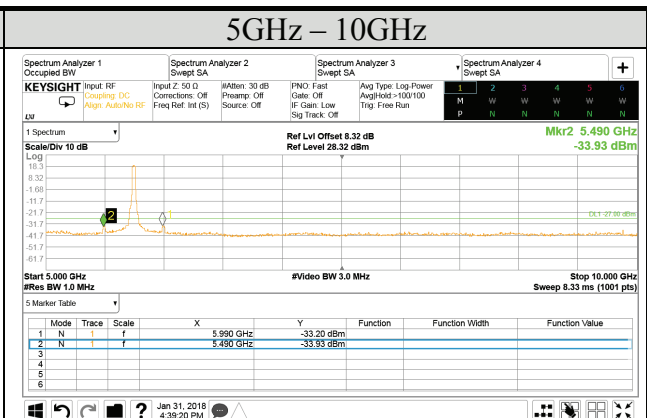
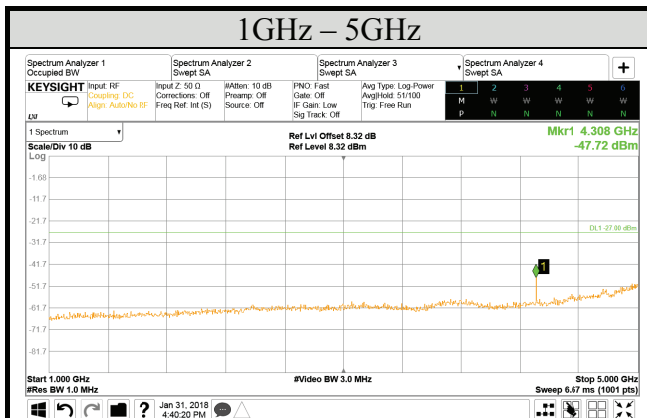
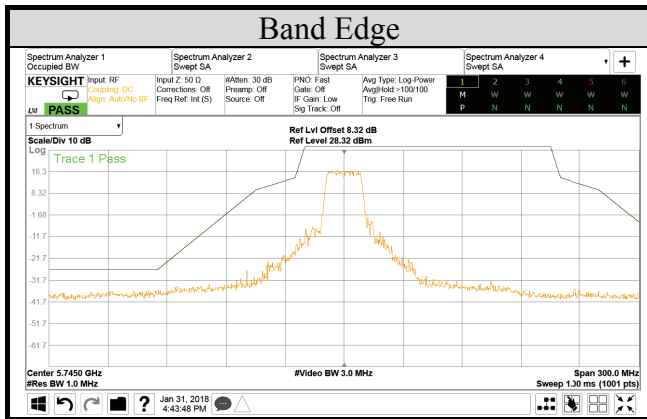


Test Date	2018/01/31	Temp./Hum.	25°C/55%
Mode	802.11a	UNII Band	III
Cable Loss	4.7dB	Frequency	TX 5825MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	DC 3.3V (Via Notebook PC)
		3	



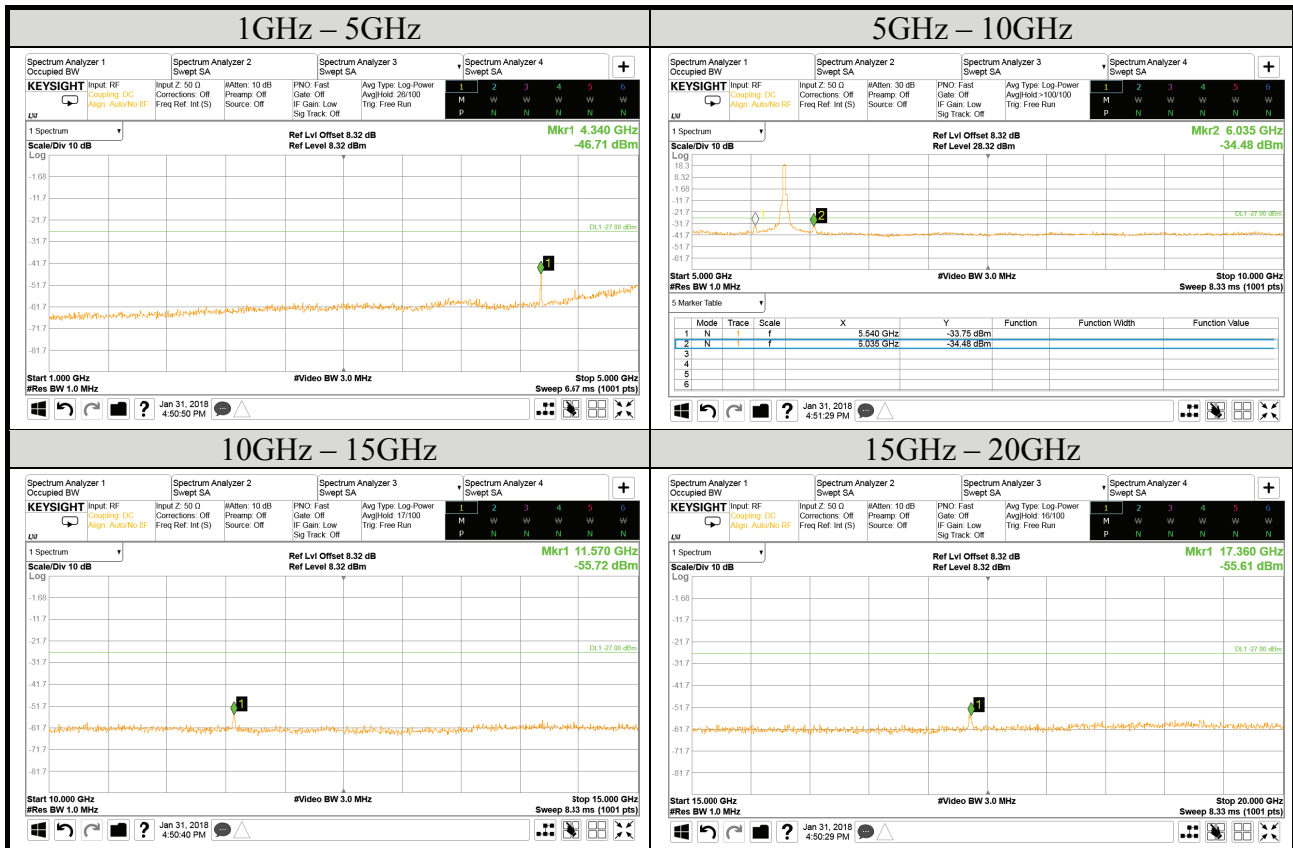


Test Date	2018/01/31	Temp./Hum.	25°C/55%
Mode	802.11n-HT20	UNII Band	III
Cable Loss	4.7dB	Frequency	TX 5745MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	DC 3.3V (Via Notebook PC)
			3



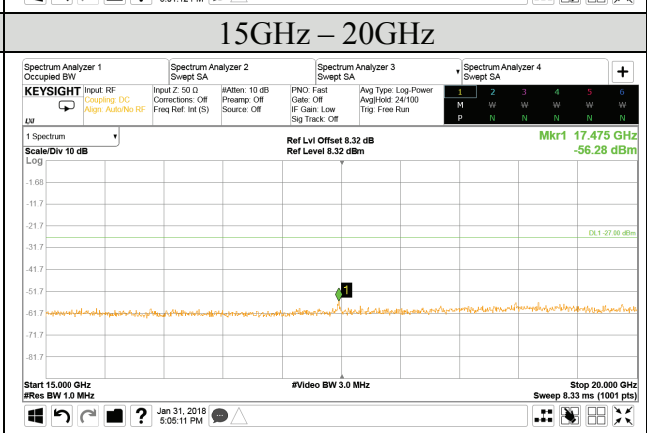
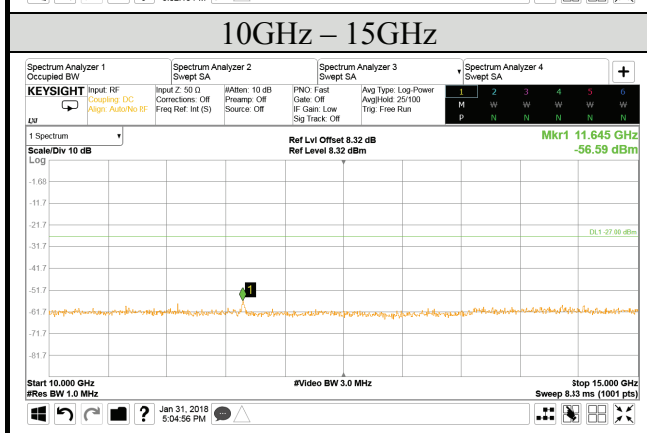
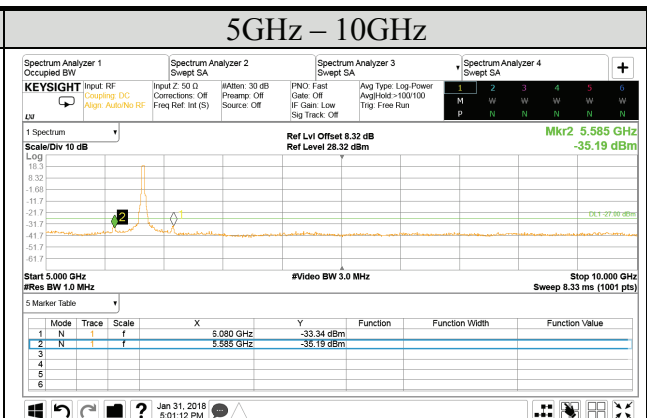
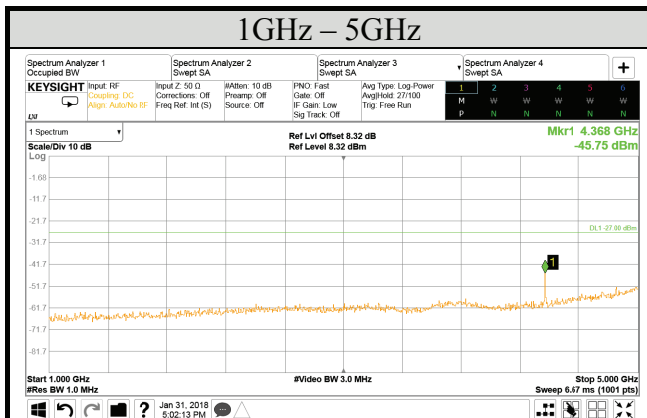
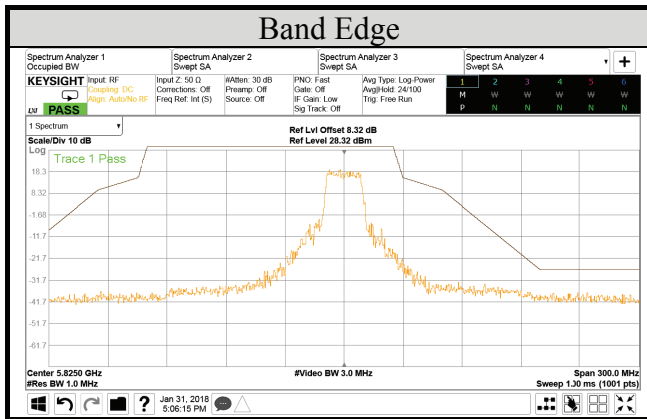


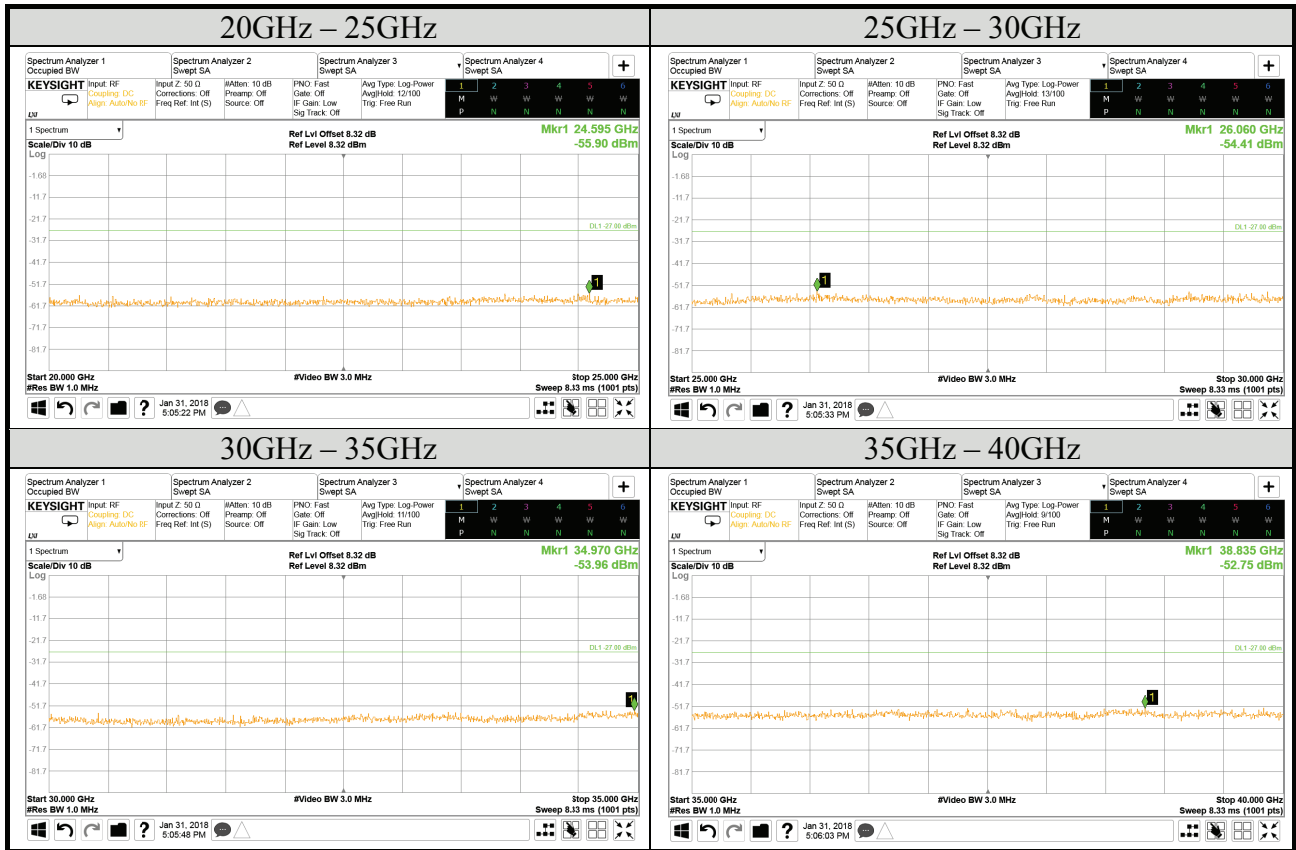
Test Date	2018/01/31	Temp./Hum.	25°C/55%
Mode	802.11n-HT20	UNII Band	III
Cable Loss	4.7dB	Frequency	TX 5785MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	DC 3.3V (Via Notebook PC)
			3



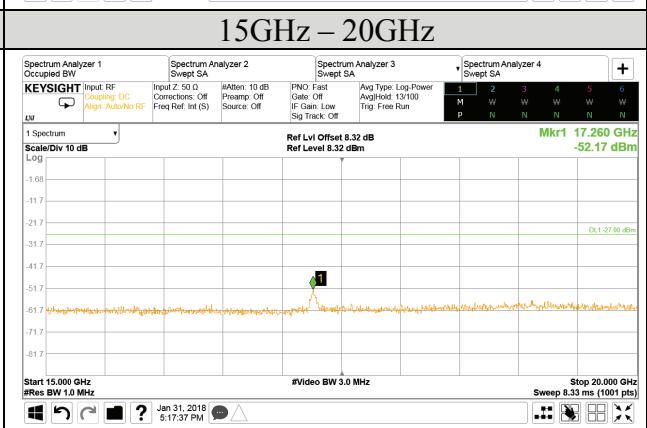
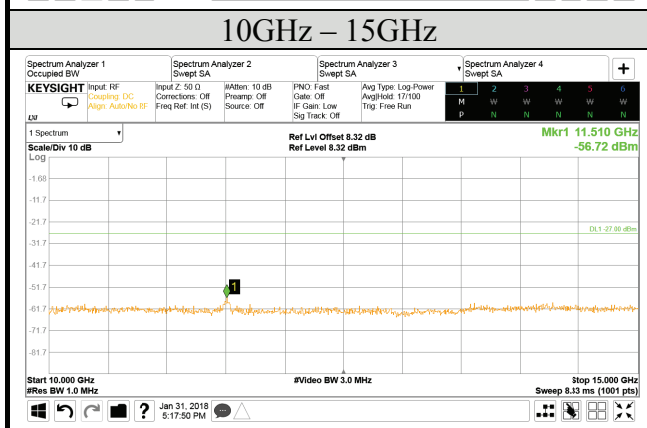
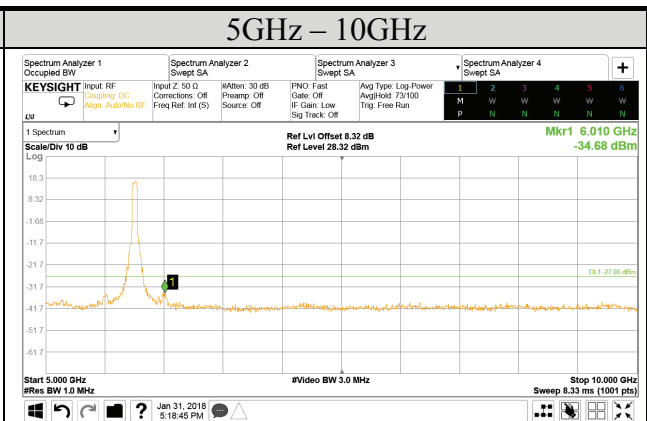
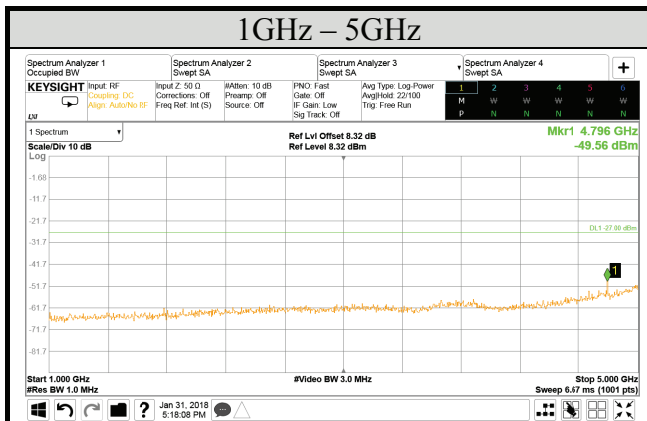
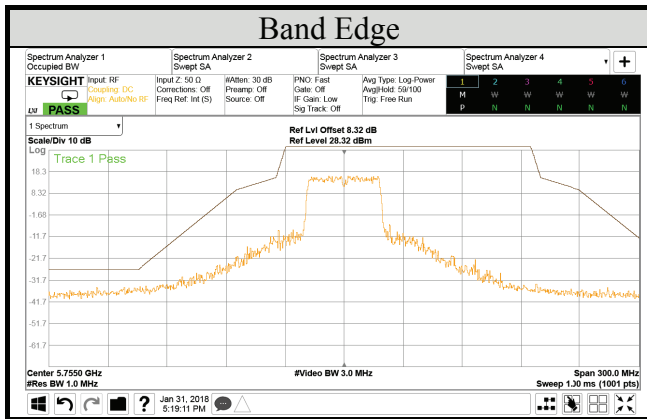


Test Date	2018/01/31	Temp./Hum.	25°C/55%
Mode	802.11n-HT20	UNII Band	III
Cable Loss	4.7dB	Frequency	TX 5825MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	DC 3.3V (Via Notebook PC)
			3





Test Date	2018/01/31	Temp./Hum.	25°C/55%
Mode	802.11n-HT40	UNII Band	III
Cable Loss	4.7dB	Frequency	TX 5755MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	DC 3.3V (Via Notebook PC)
			3

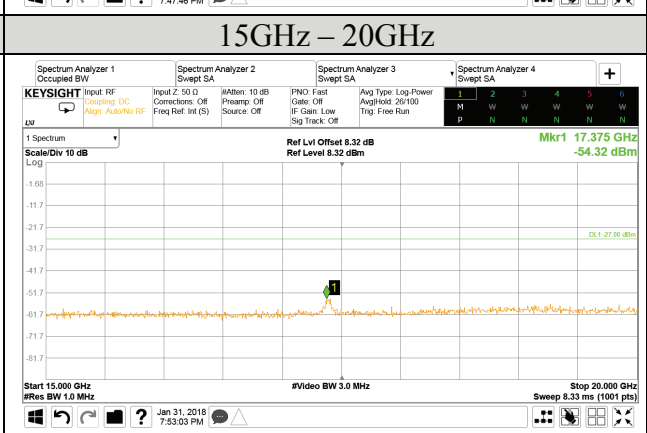
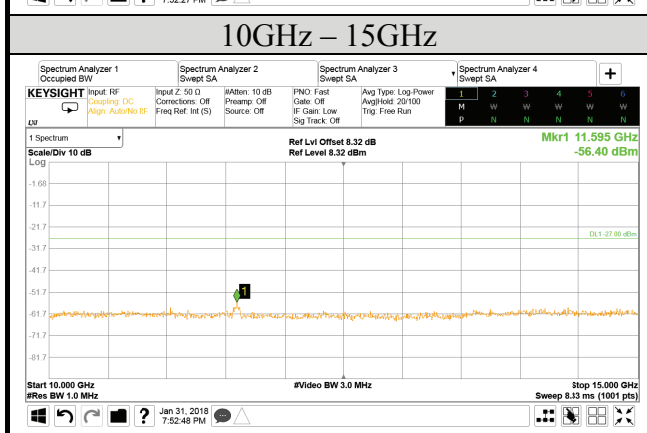
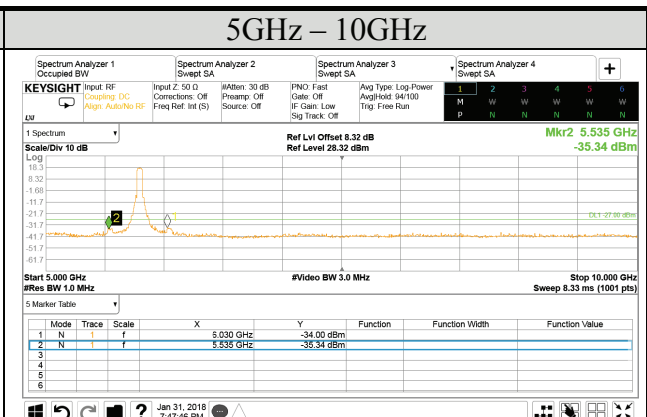
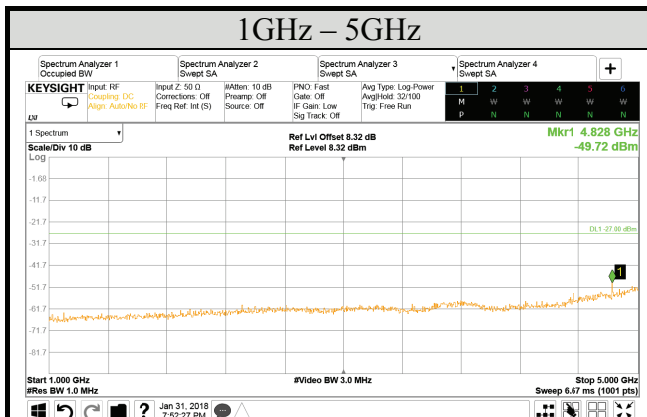
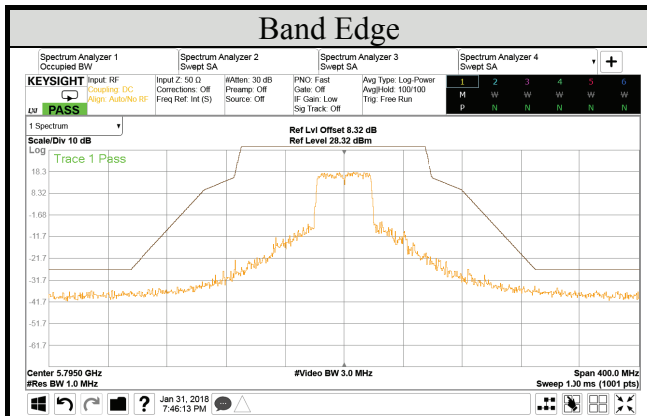


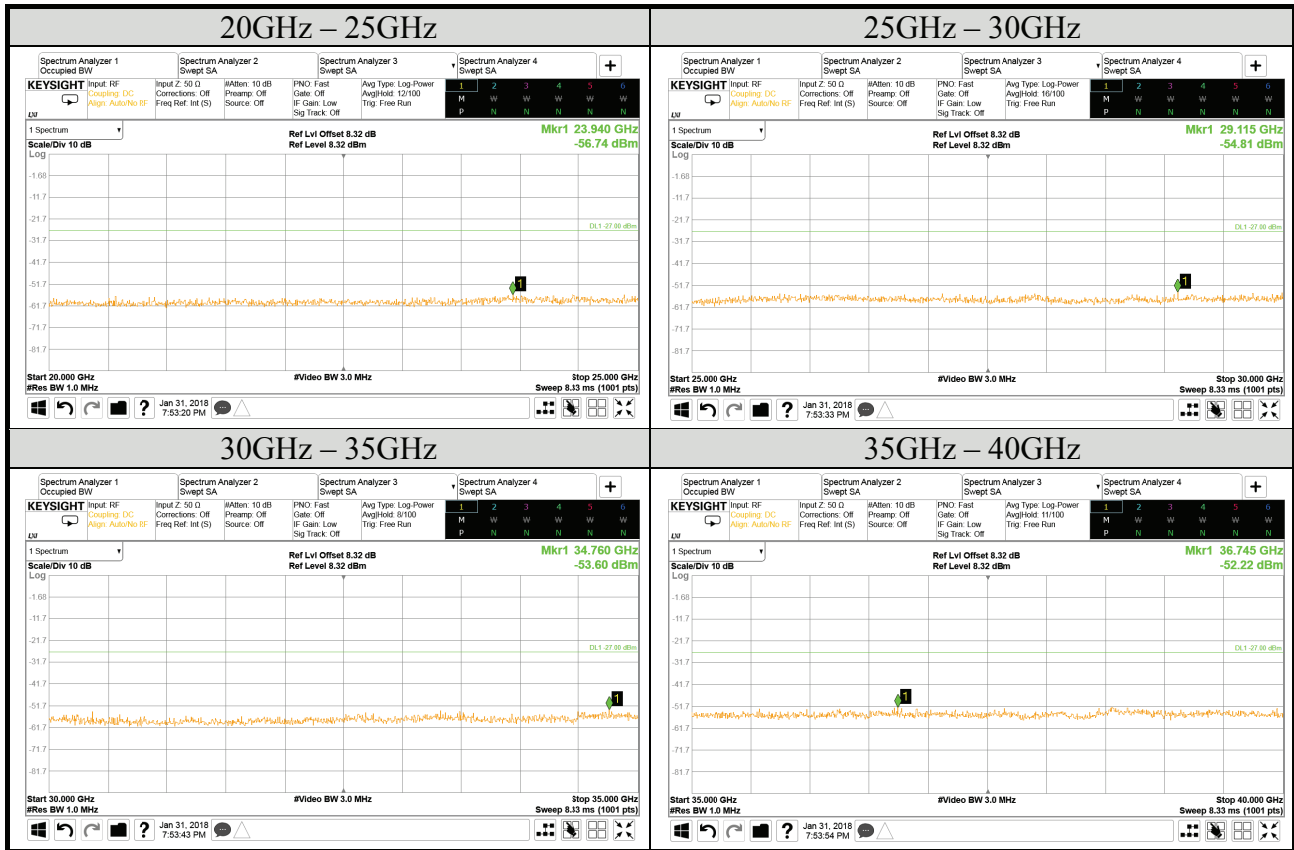
Audix Technology Corp.
 No. 53-11, Dingfu, Linkou, Dist.,
 New Taipei City 244, Taiwan

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



Test Date	2018/01/31	Temp./Hum.	25°C/55%
Mode	802.11n-HT40	UNII Band	III
Cable Loss	4.7dB	Frequency	TX 5795MHz
Simultaneous Factor 10 log(n) (Note: "n" is antenna number)		Test Voltage	DC 3.3V (Via Notebook PC)
			3





A.5 POWER SPECTRAL DENSITY

Test Date	2018/01/31	Temp./Hum.	25°C/55%
Cable Loss	4.7dB	Test Voltage	DC 3.3V (Via Notebook PC)
Simultaneous Factor $10 \log(n)$ (Note: "n" is antenna number)			3

A.5.1 Power Spectral Density Result

Mode	UNII Band	Centre Frequency (MHz)	Power Spectral Density (dBm)	Limit
802.11a	III ^{Note2}	5745	9.184	30dBm/500 kHz
		5785	9.624	
		5825	9.581	
802.11n- HT20	III ^{Note2}	5745	9.074	30dBm/500 kHz
		5785	8.951	
		5825	9.078	
802.11n- HT40	III ^{Note2}	5755	6.602	30dBm/500 kHz
		5795	7.508	

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.5.2 Measurement Plots



