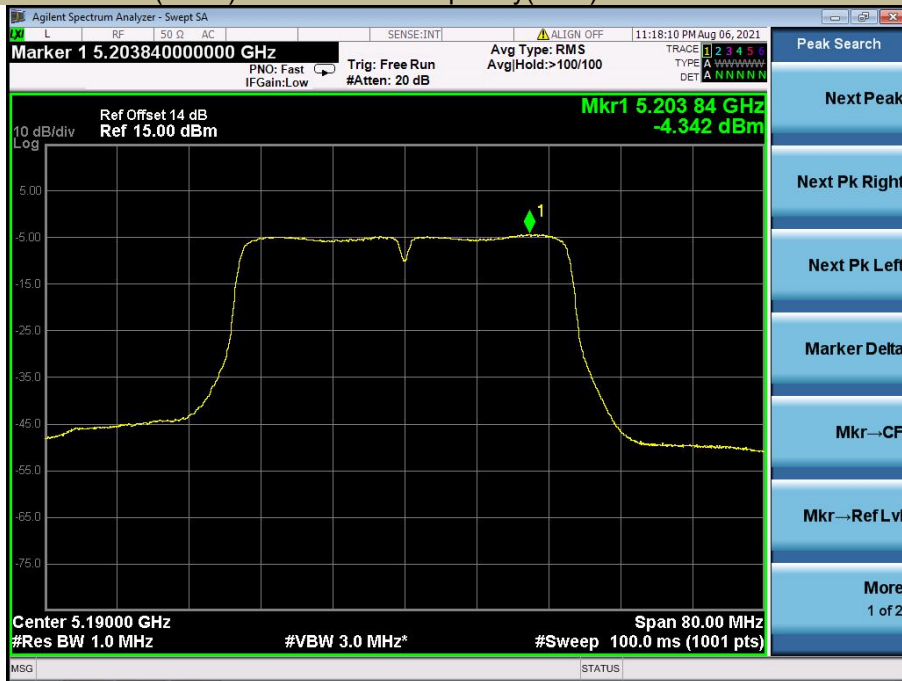


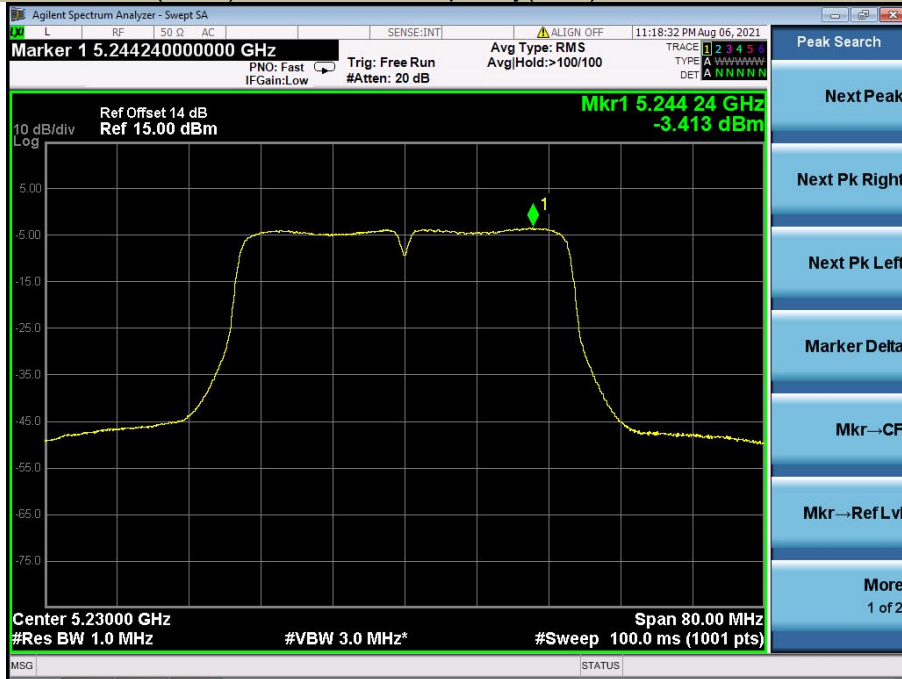
Power Spectral Density U-NII - 1
 Test Model 802.11n-HT40 Frequency(MHz) 5230



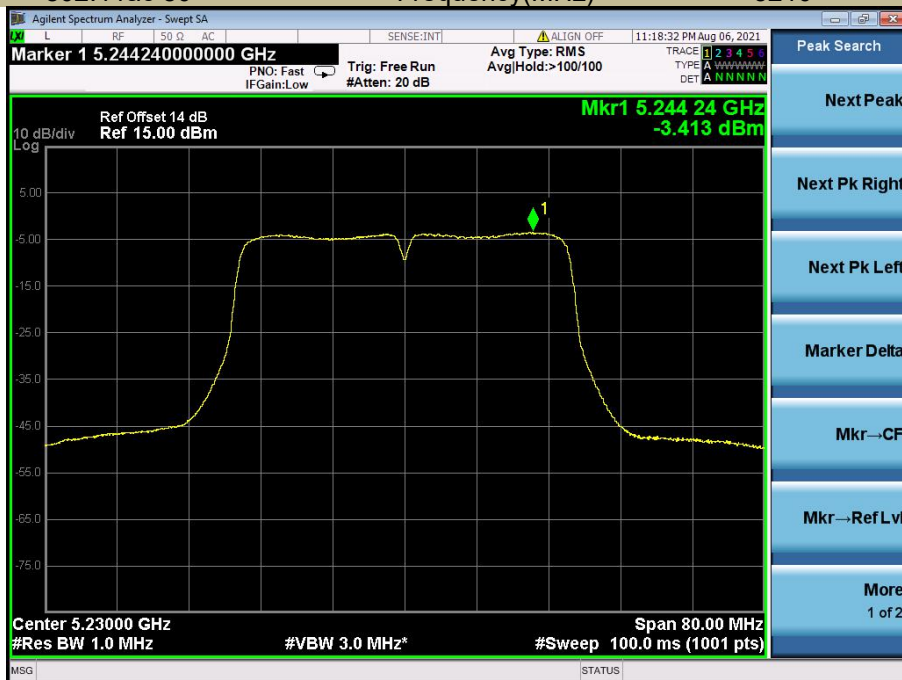
Power Spectral Density U-NII - 1
 Test Model 802.11ac(HT40) Frequency(MHz) 5190



Power Spectral Density U-NII - 1
 Test Model 802.11ac(HT40) Frequency(MHz) 5230



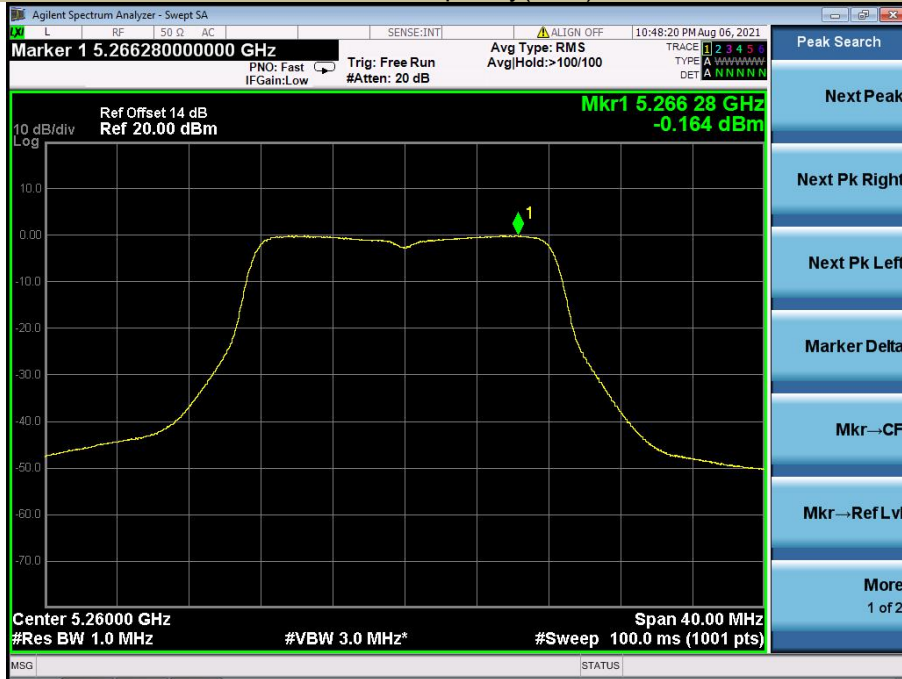
Power Spectral Density U-NII - 1
 Test Model 802.11ac 80 Frequency(MHz) 5210



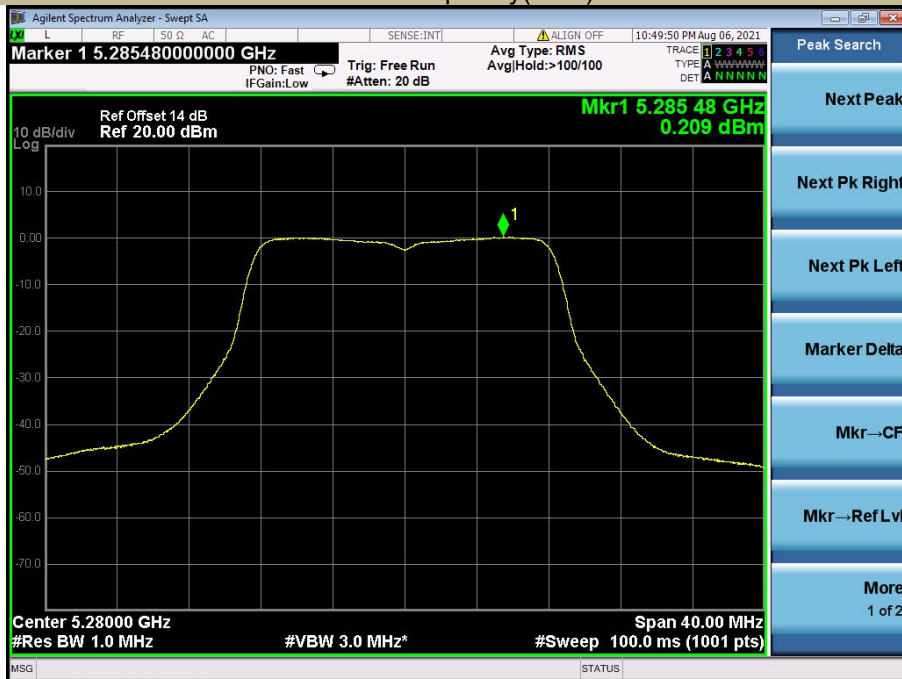
5250-5350MHz

Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)
802.11a	5260	-0.164	11
	5280	0.209	11
	5320	0.326	11
802.11n-HT20	5260	-0.463	11
	5280	-0.463	11
	5320	-0.194	11
802.11ac(HT20)	5260	-0.204	11
	5280	-0.207	11
	5320	-0.061	11
802.11n-HT40	5270	-3.168	11
	5310	-2.903	11
802.11ac(HT40)	5270	-2.837	11
	5310	-2.942	11
802.11ac(HT80)	5290	-4.531	11

Power Spectral Density U-NII – 2A
 Test Model 802.11a Frequency(MHz) 5260

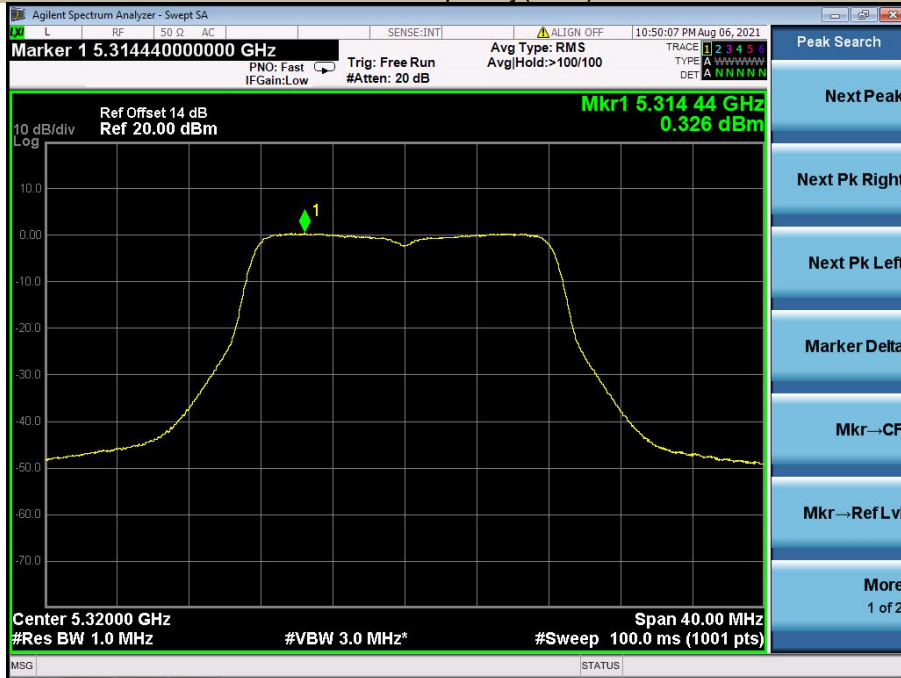


Power Spectral Density U-NII – 2A
 Test Model 802.11a Frequency(MHz) 5280



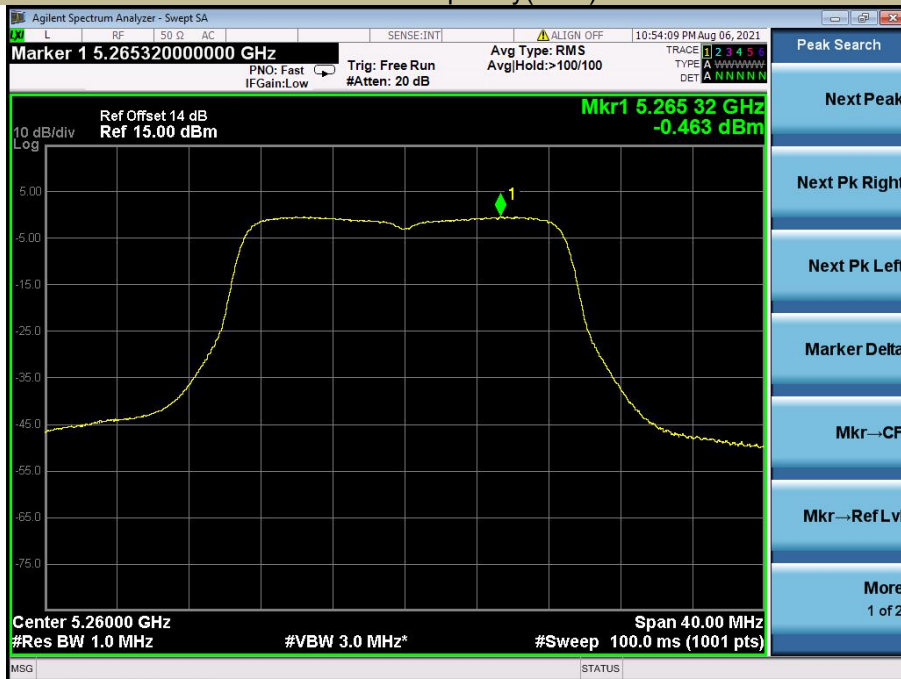
Power Spectral Density
Test Model 802.11a

U-NII – 2A
Frequency(MHz) 5320

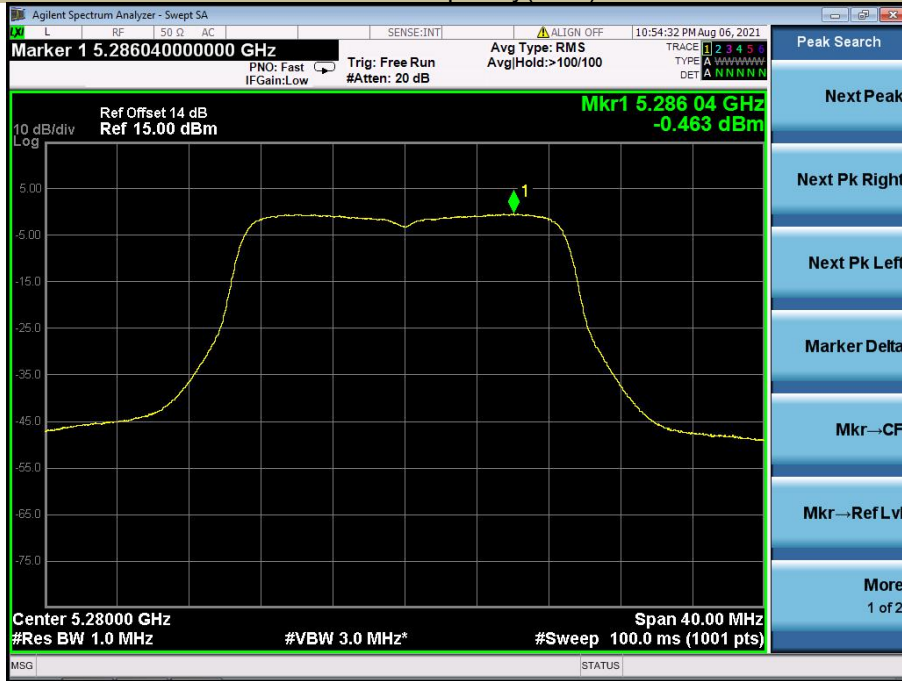


Power Spectral Density
Test Model 802.11n-HT20

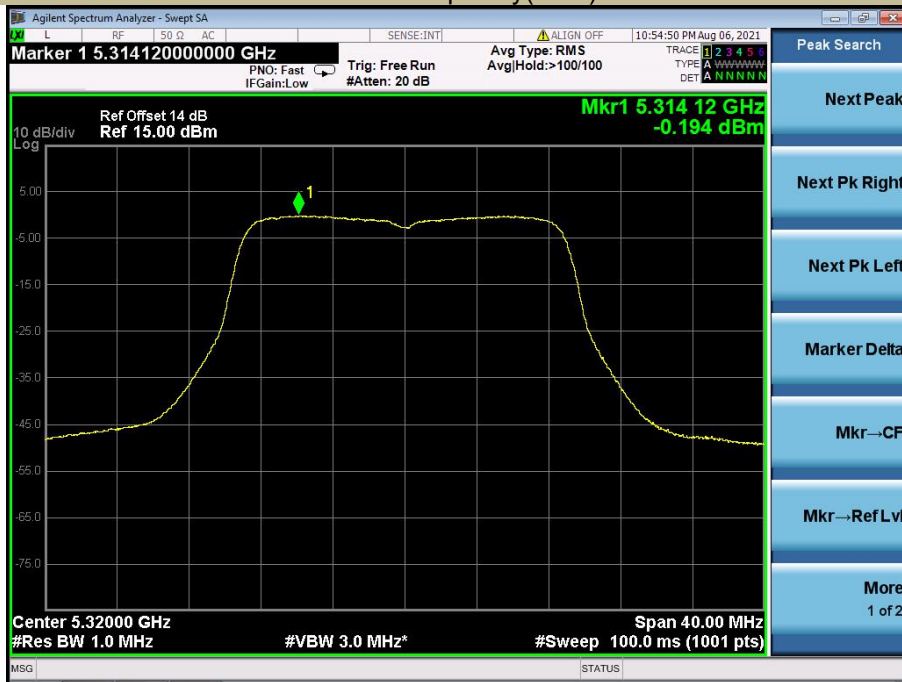
U-NII – 2A
Frequency(MHz) 5260



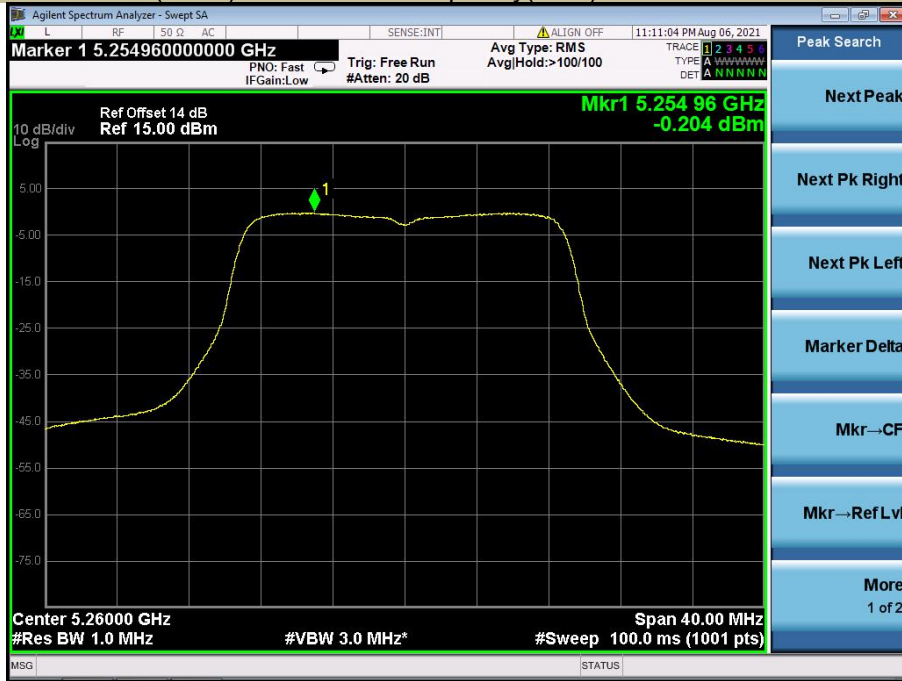
Power Spectral Density U-NII – 2A
 Test Model 802.11n-HT20 Frequency(MHz) 5280



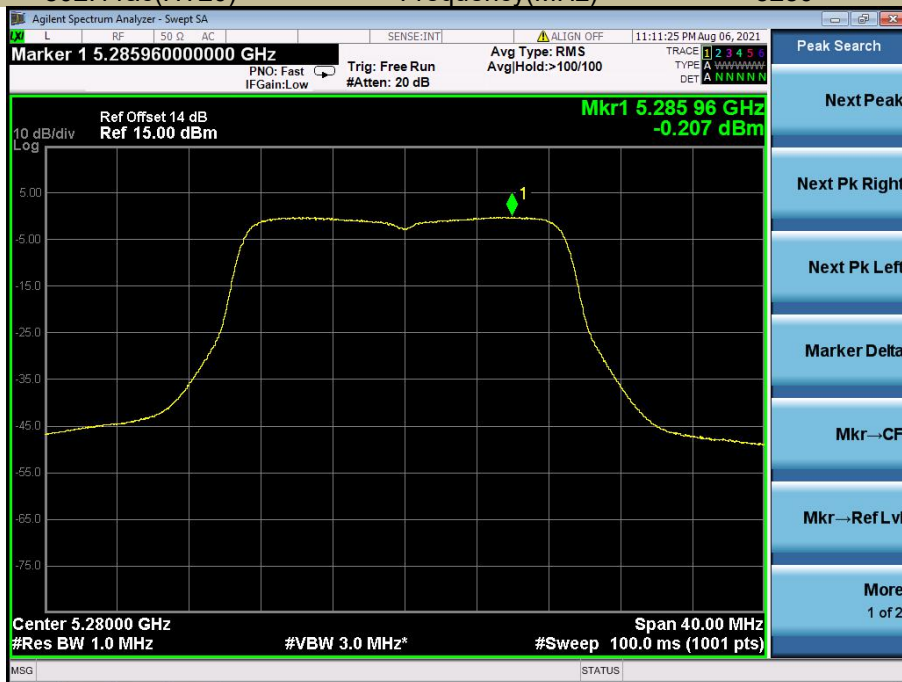
Power Spectral Density U-NII – 2A
 Test Model 802.11n-HT20 Frequency(MHz) 5320



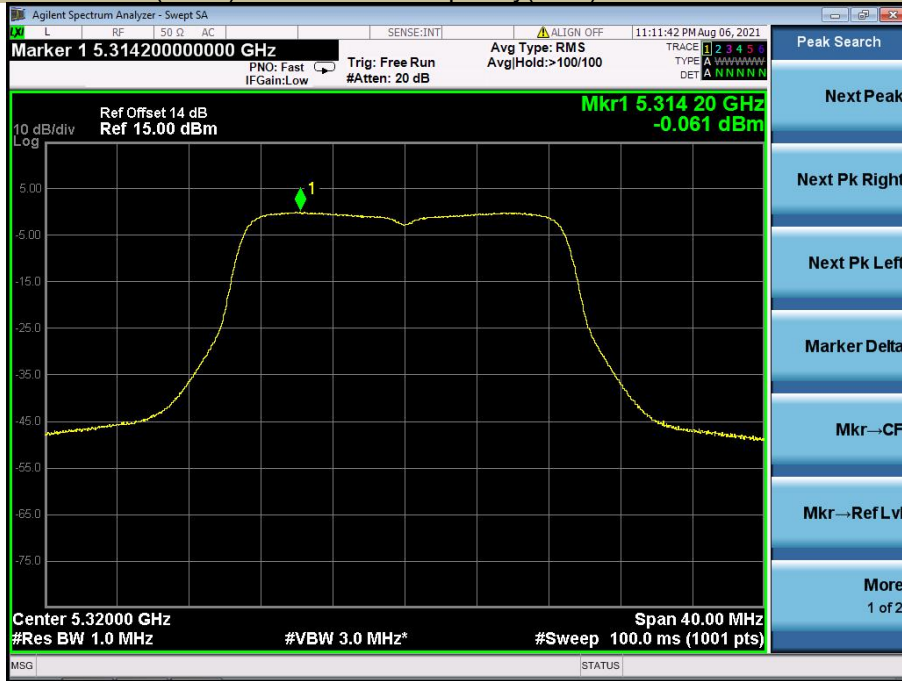
Power Spectral Density U-NII – 2A
 Test Model 802.11ac(HT20) Frequency(MHz) 5260



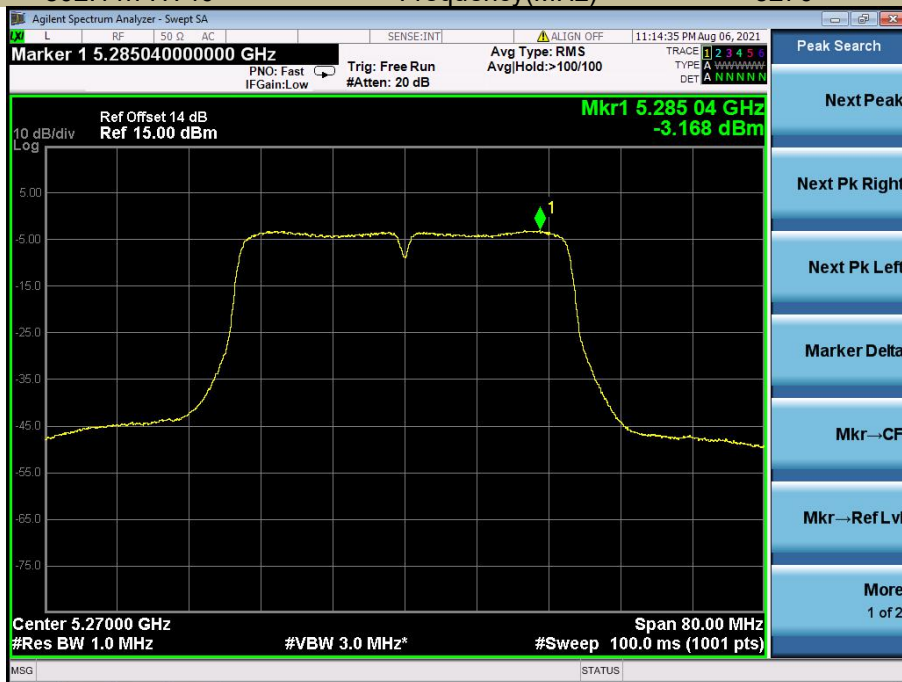
Power Spectral Density U-NII – 2A
 Test Model 802.11ac(HT20) Frequency(MHz) 5280



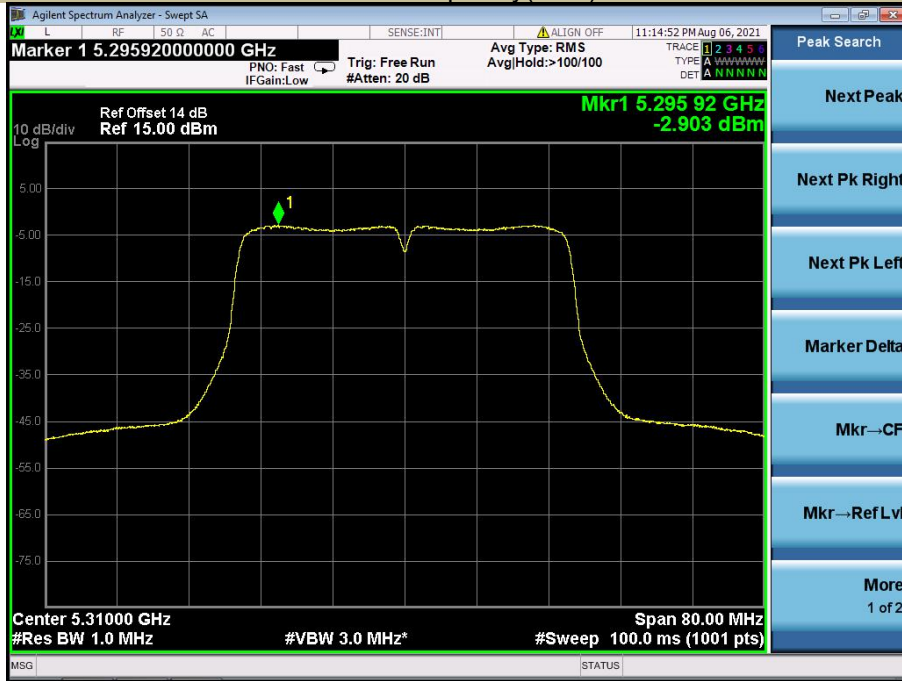
Power Spectral Density U-NII – 2A
 Test Model 802.11ac(HT20) Frequency(MHz) 5320



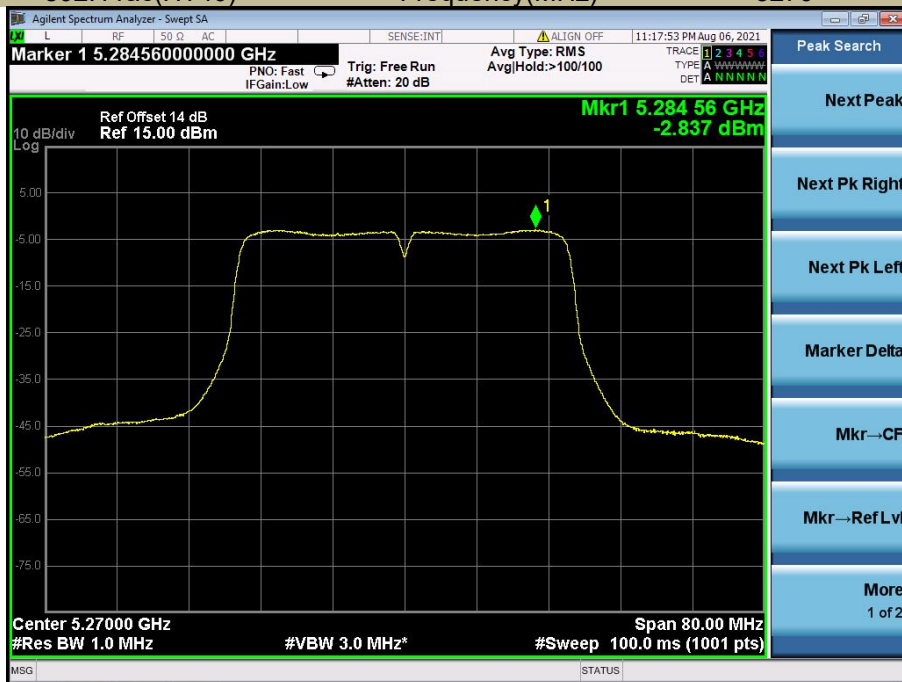
Power Spectral Density U-NII – 2A
 Test Model 802.11n-HT40 Frequency(MHz) 5270



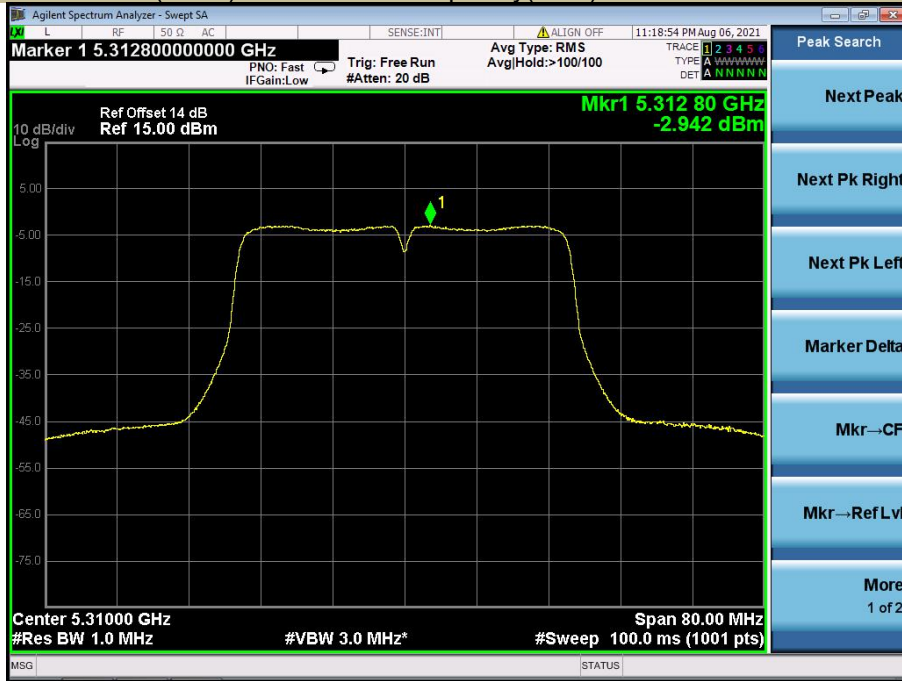
Power Spectral Density U-NII – 2A
 Test Model 802.11n-HT40 Frequency(MHz) 5310



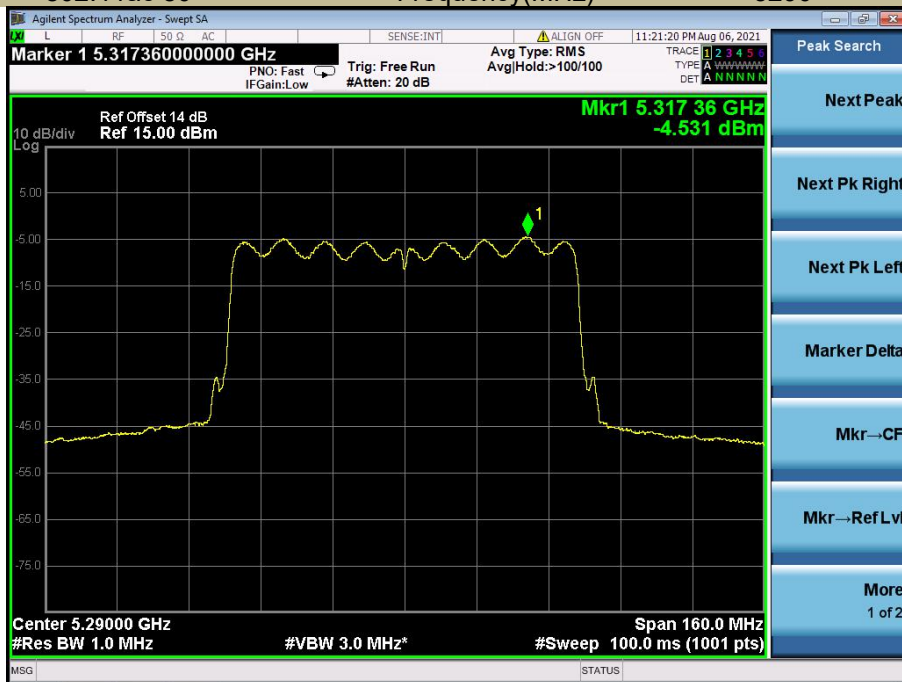
Power Spectral Density U-NII – 2A
 Test Model 802.11ac(HT40) Frequency(MHz) 5270



Power Spectral Density U-NII – 2A
 Test Model 802.11ac(HT40) Frequency(MHz) 5310



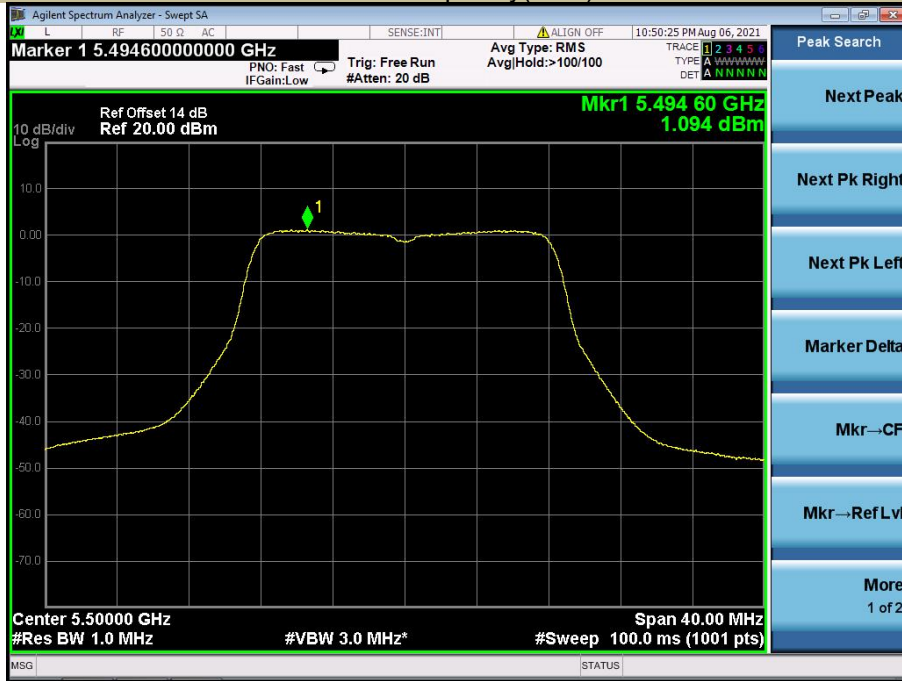
Power Spectral Density U-NII – 2A
 Test Model 802.11ac 80 Frequency(MHz) 5290



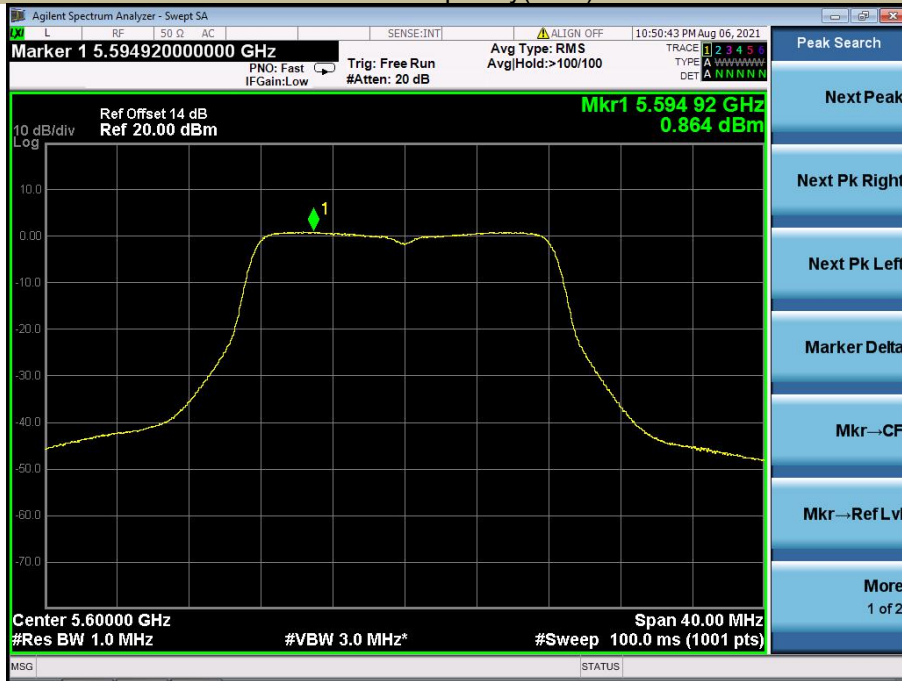
5470-5725MHz

Operating mode	Test Channel	Power Spectral Density dBm/MHz	Limit (dBm/MHz)
802.11a	5500	1.094	11
	5600	0.864	11
	5700	0.531	11
802.11n-HT20	5500	0.736	11
	5600	0.677	11
	5700	0.105	11
802.11ac(HT20)	5500	0.593	11
	5600	0.535	11
	5700	0.118	11
802.11n-HT40	5510	-2.219	11
	5670	-2.145	11
802.11ac(HT40)	5510	-2.274	11
	5670	-2.264	11
802.11ac(HT80)	5530	-3.578	11

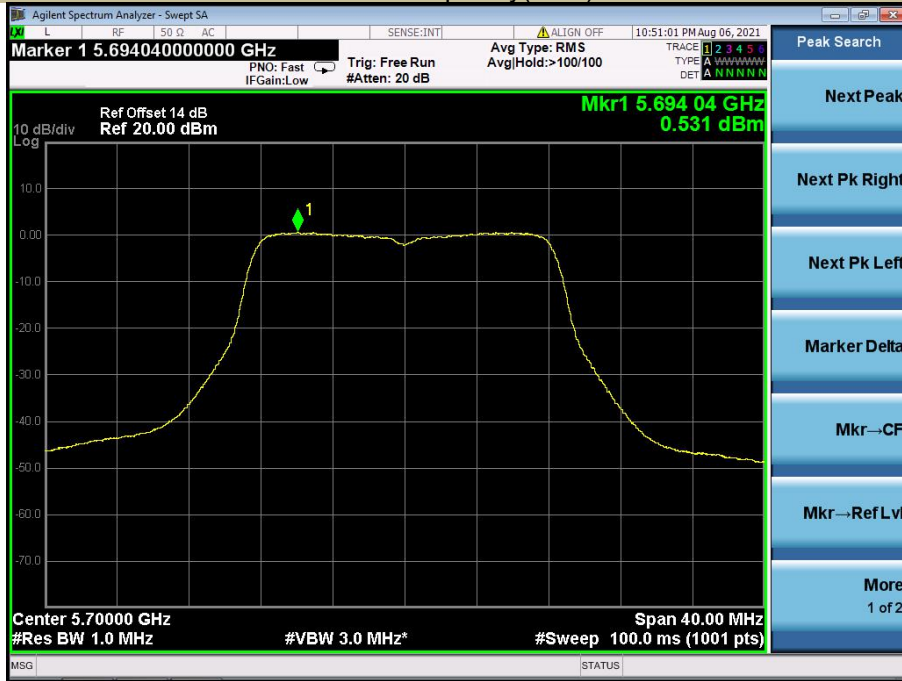
Power Spectral Density U-NII – 2C
 Test Model 802.11a Frequency(MHz) 5500



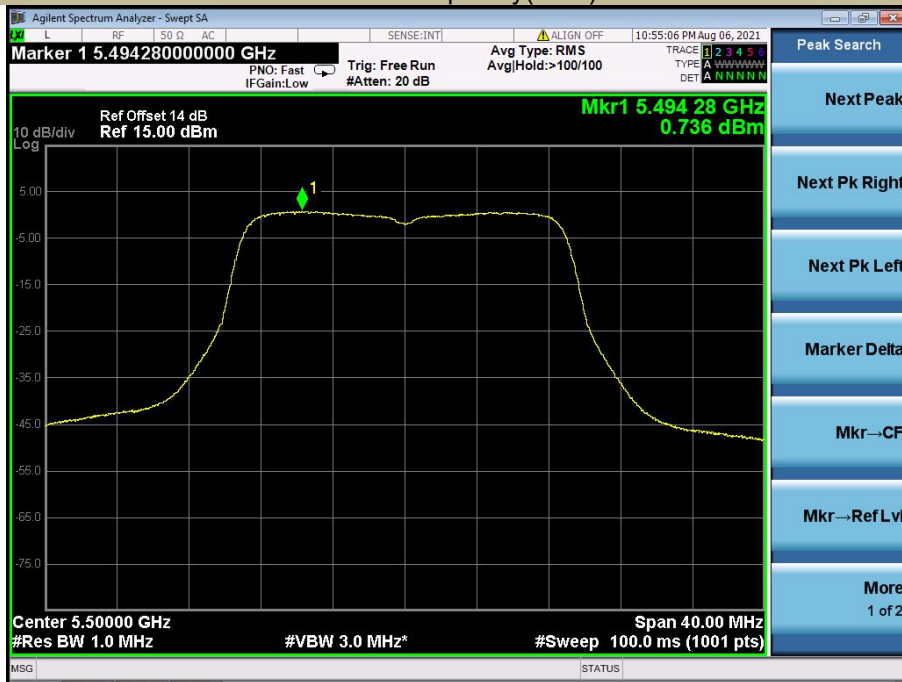
Power Spectral Density U-NII – 2C
 Test Model 802.11a Frequency(MHz) 5600



Power Spectral Density U-NII – 2C
 Test Model 802.11a Frequency(MHz) 5700



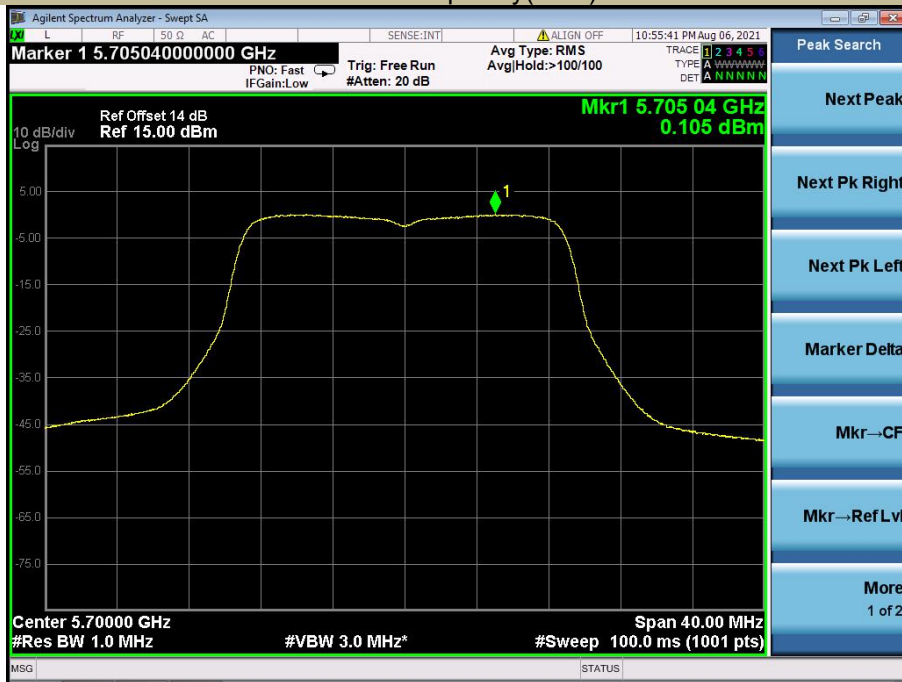
Power Spectral Density U-NII – 2C
 Test Model 802.11n-HT20 Frequency(MHz) 5500



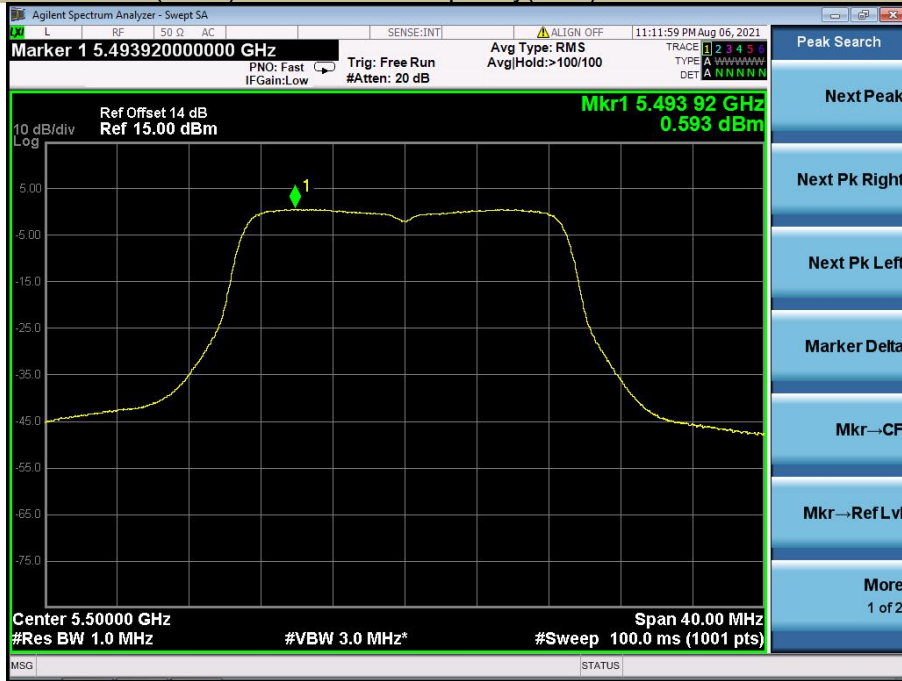
Power Spectral Density U-NII – 2C
 Test Model 802.11n-HT20 Frequency(MHz) 5600



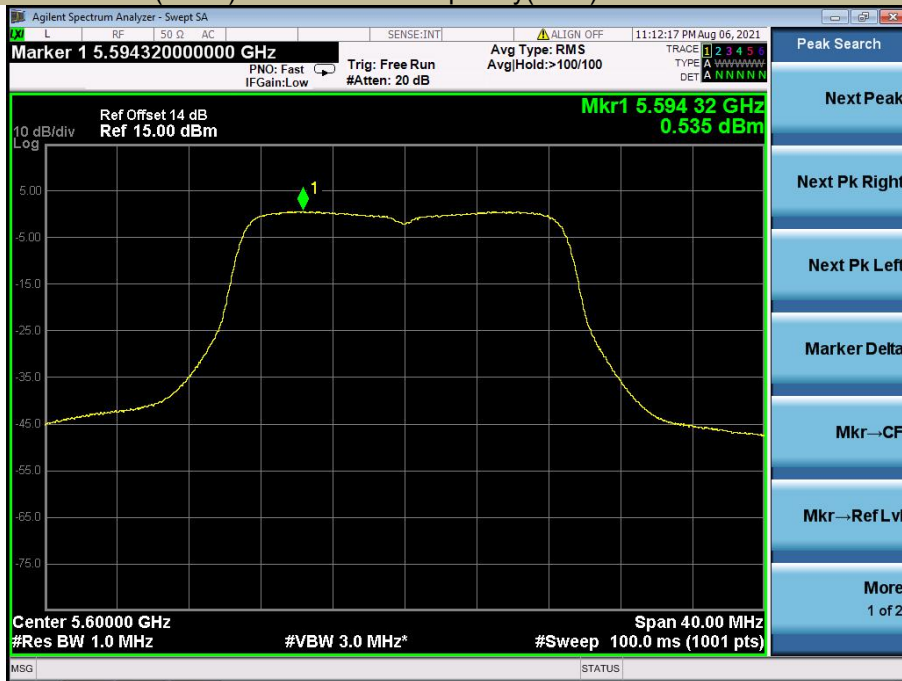
Power Spectral Density U-NII – 2C
 Test Model 802.11n-HT20 Frequency(MHz) 5700



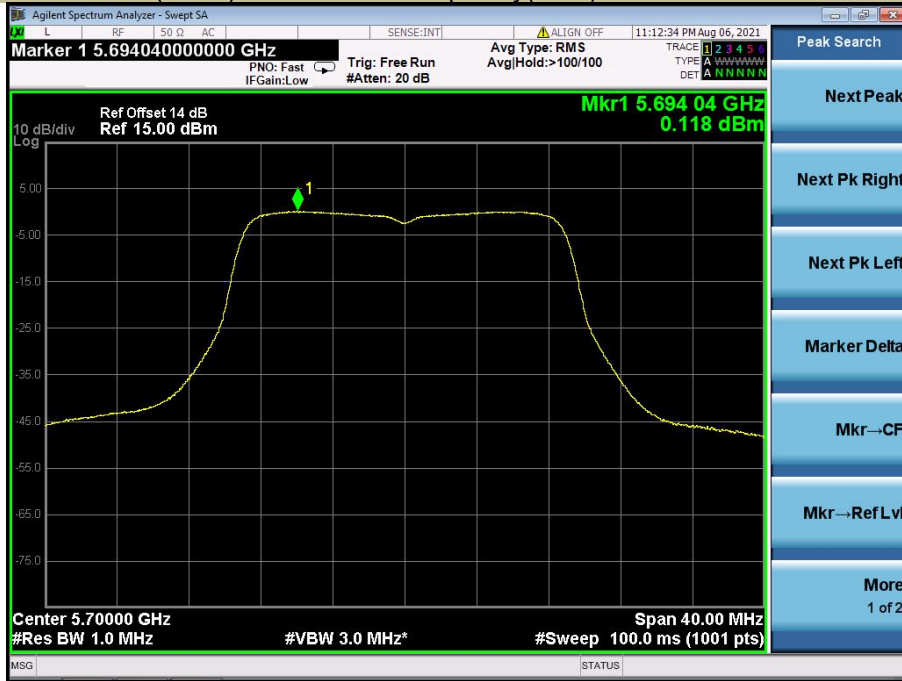
Power Spectral Density U-NII – 2C
 Test Model 802.11ac(HT20) Frequency(MHz) 5500



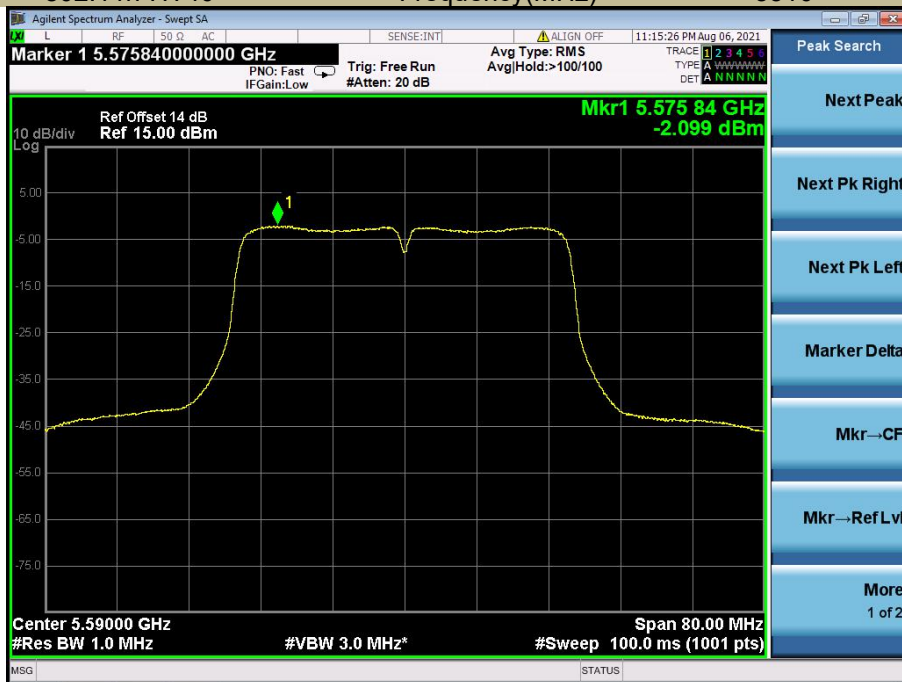
Power Spectral Density U-NII – 2C
 Test Model 802.11ac(HT20) Frequency(MHz) 5600



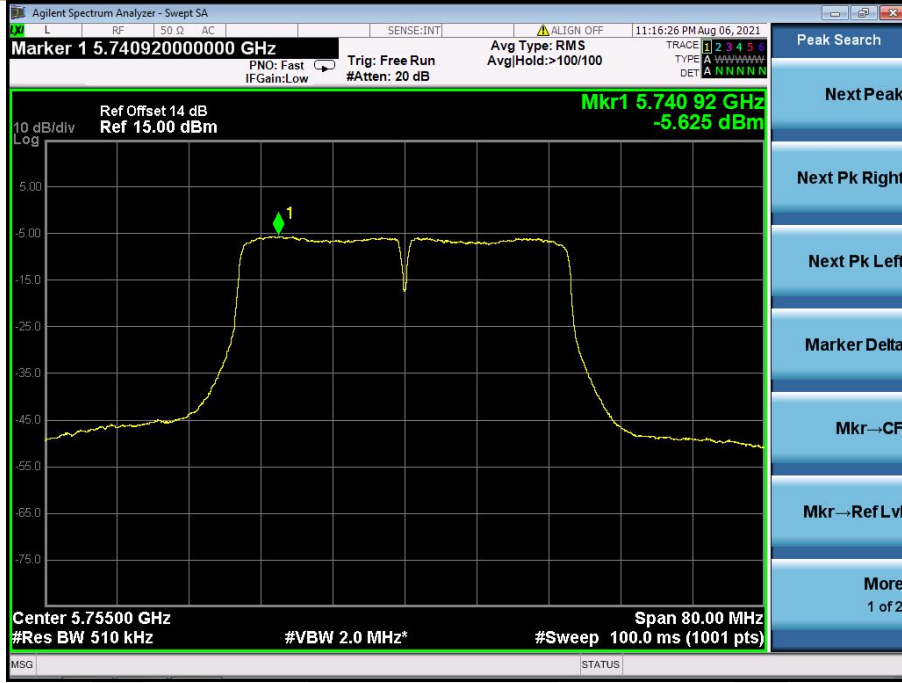
Power Spectral Density U-NII – 2C
 Test Model 802.11ac(HT20) Frequency(MHz) 5700



Power Spectral Density U-NII – 2C
 Test Model 802.11n-HT40 Frequency(MHz) 5510



Power Spectral Density U-NII – 2C
 Test Model 802.11n-HT40 Frequency(MHz) 5670



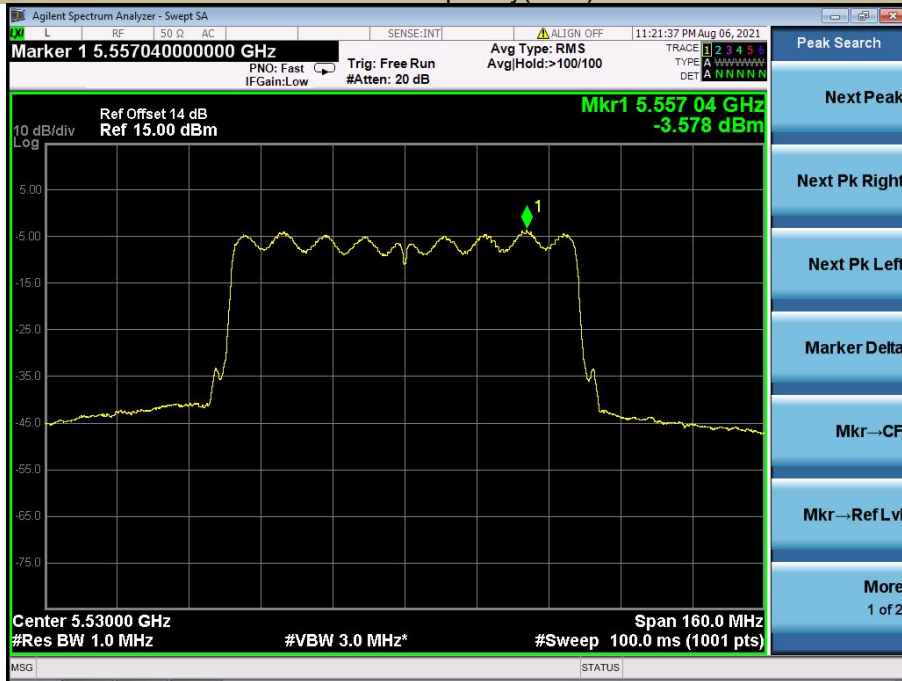
Power Spectral Density U-NII – 2C
 Test Model 802.11ac(HT40) Frequency(MHz) 5510



Power Spectral Density U-NII – 2C
 Test Model 802.11ac(HT40) Frequency(MHz) 5670



Power Spectral Density U-NII – 2C
 Test Model 802.11ac 80 Frequency(MHz) 5530



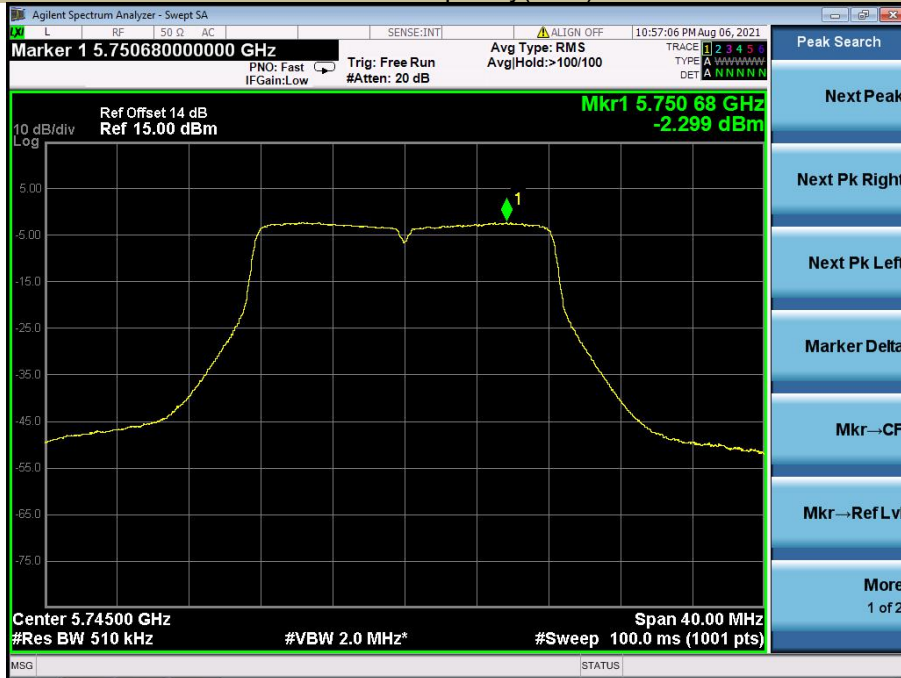
5725-5850MHz

Operating mode	Test Channel	Power Spectral Density dBm/500kHz	Limit (dBm/500kHz)
802.11a	5745	-2.299	30
	5785	-3.038	30
	5825	-2.709	30
802.11n-HT20	5745	-2.679	30
	5785	-3.211	30
	5825	-2.993	30
802.11ac(HT20)	5745	-2.881	30
	5785	-3.479	30
	5825	-3.223	30
802.11n-HT40	5755	-5.625	30
	5795	-6.069	30
802.11ac(HT40)	5755	-5.624	30
	5795	-6.068	30
802.11ac(HT80)	5775	-7.538	30

Power Spectral Density
Test Model 802.11a

U-NII - 3
Frequency(MHz)

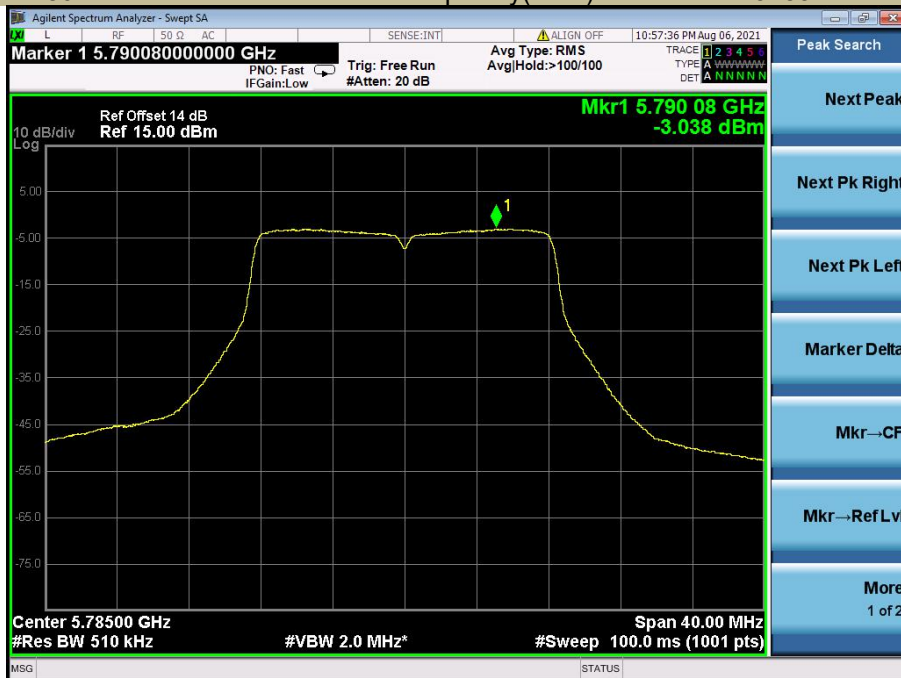
5745



Power Spectral Density
Test Model 802.11a

U-NII - 3
Frequency(MHz)

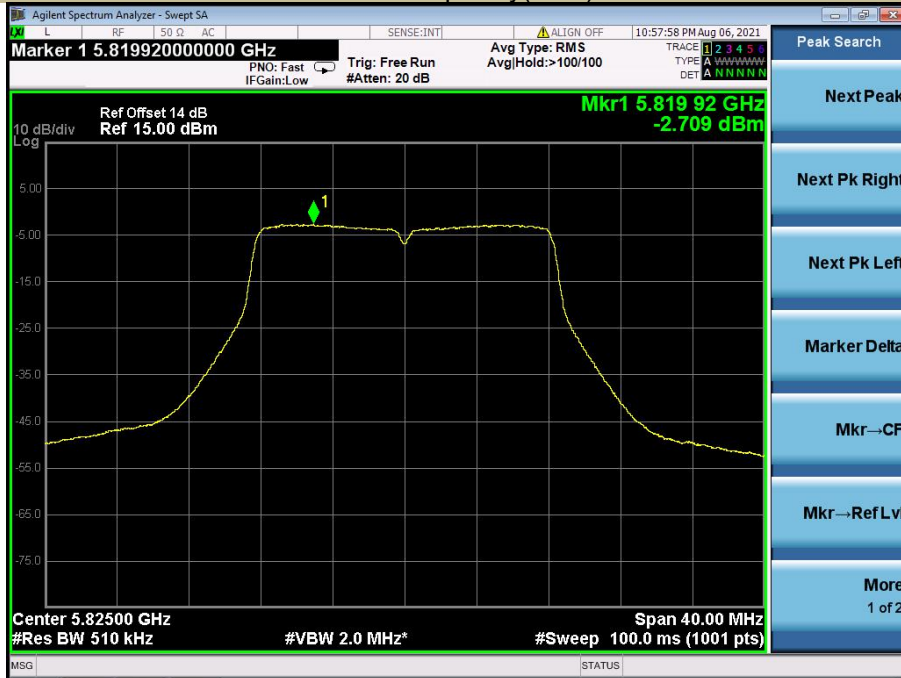
5785



Power Spectral Density
Test Model 802.11a

U-NII - 3
Frequency(MHz)

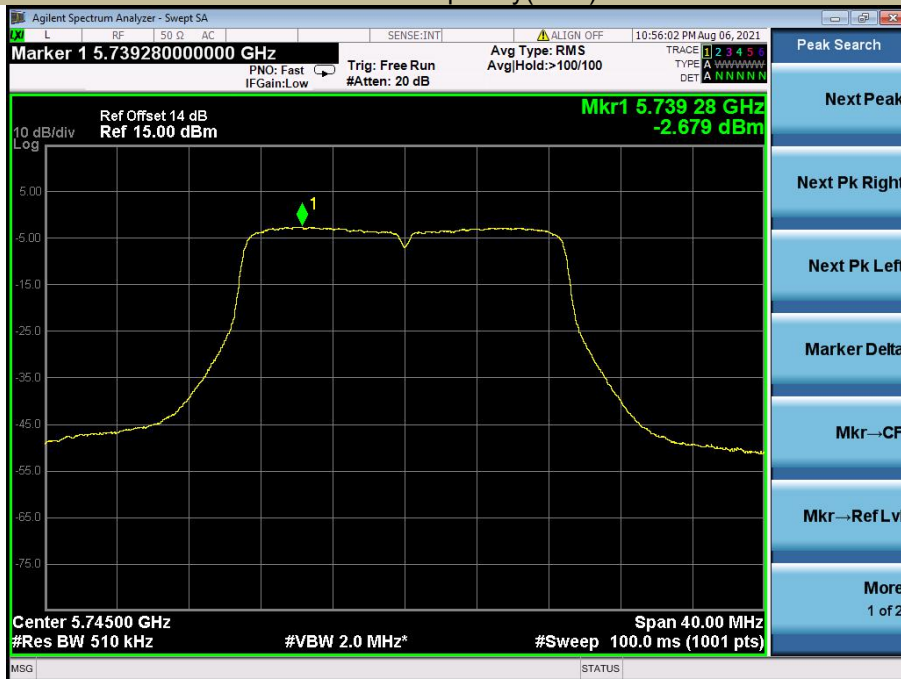
5825



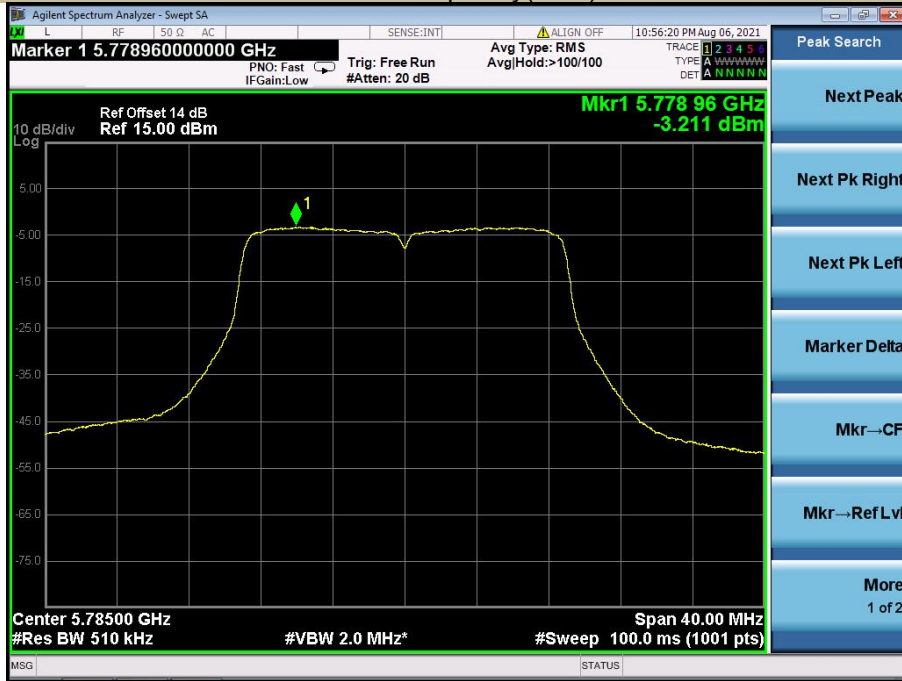
Power Spectral Density
Test Model 802.11n-HT20

U-NII - 3
Frequency(MHz)

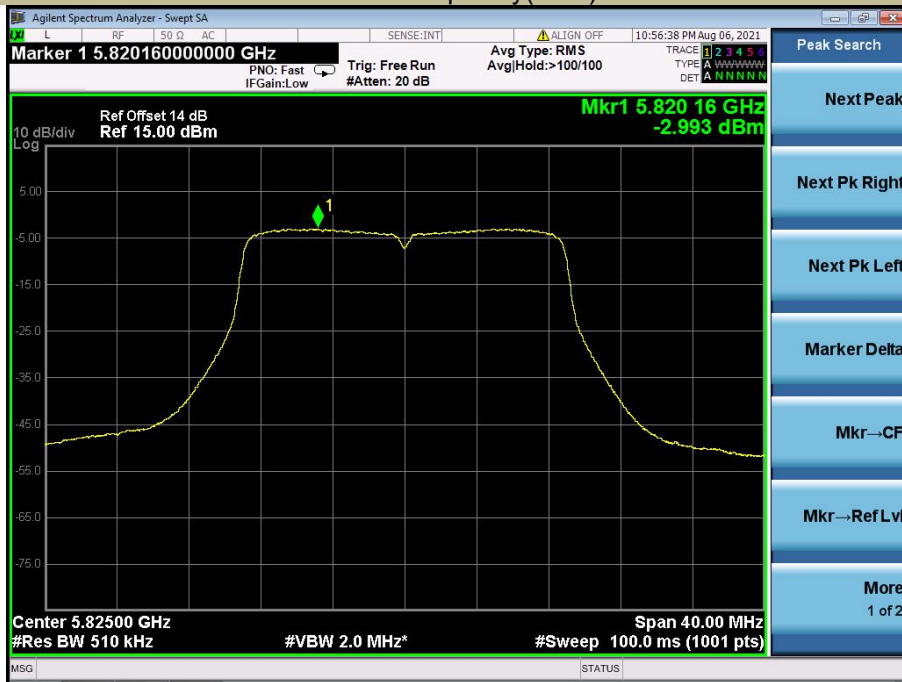
5745



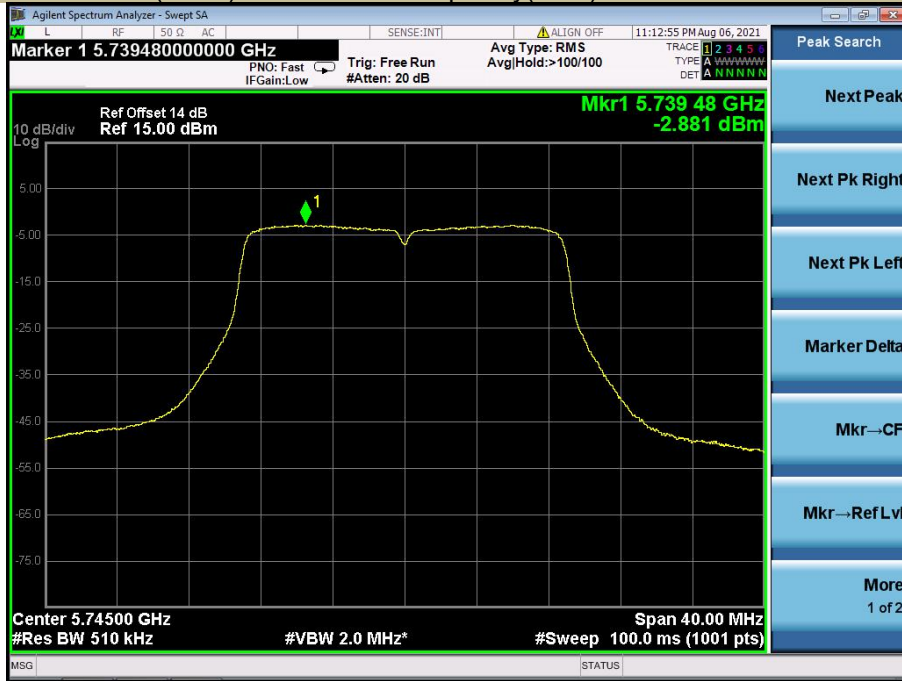
Power Spectral Density U-NII - 3
 Test Model 802.11n-HT20 Frequency(MHz) 5785



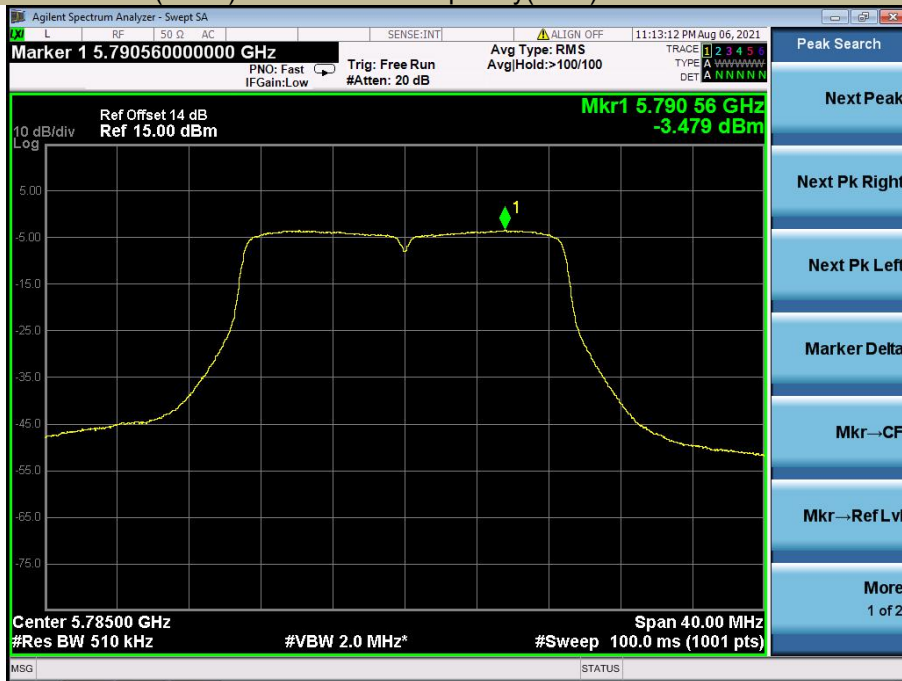
Power Spectral Density U-NII - 3
 Test Model 802.11n-HT20 Frequency(MHz) 5825



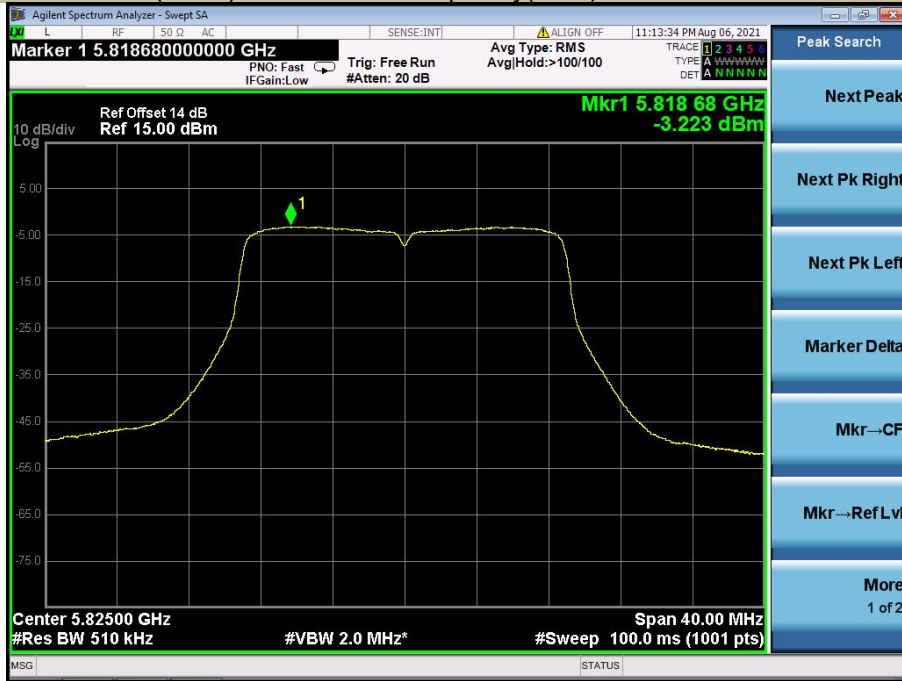
Power Spectral Density U-NII - 3
 Test Model 802.11ac(HT20) Frequency(MHz) 5745



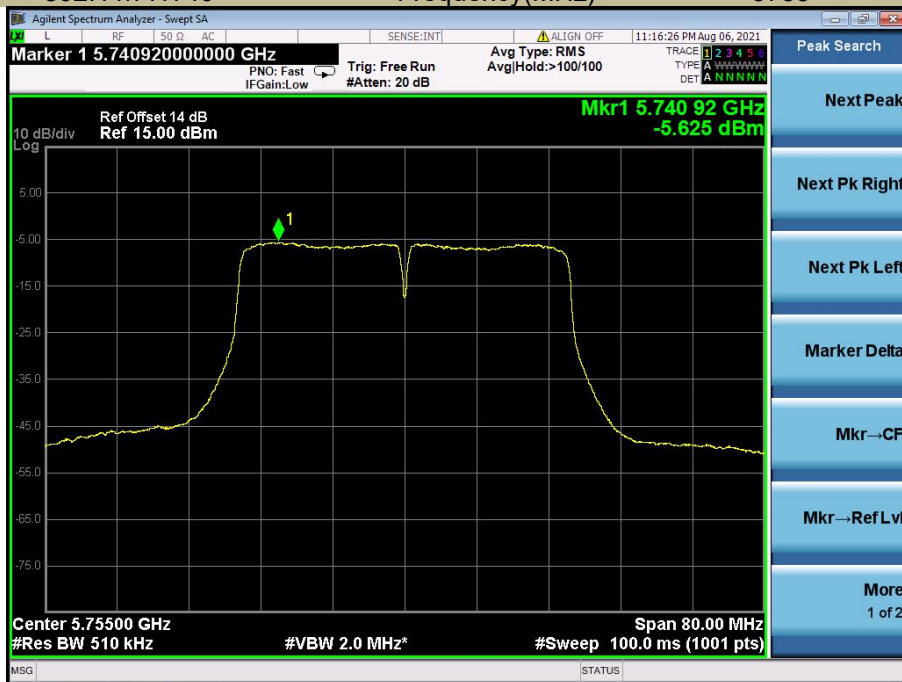
Power Spectral Density U-NII - 3
 Test Model 802.11ac(HT20) Frequency(MHz) 5785



Power Spectral Density U-NII - 3
 Test Model 802.11ac(HT20) Frequency(MHz) 5825



Power Spectral Density U-NII - 3
 Test Model 802.11n-HT40 Frequency(MHz) 5755



Power Spectral Density
Test Model 802.11n-HT40

U-NII - 3
Frequency(MHz)

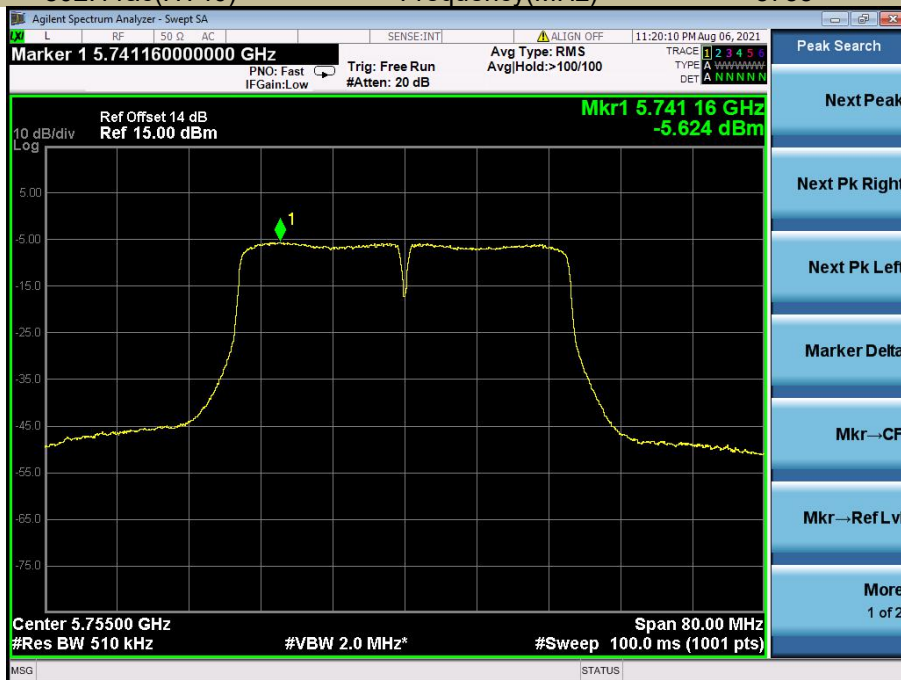
5795



Power Spectral Density
Test Model 802.11ac(HT40)

U-NII - 3
Frequency(MHz)

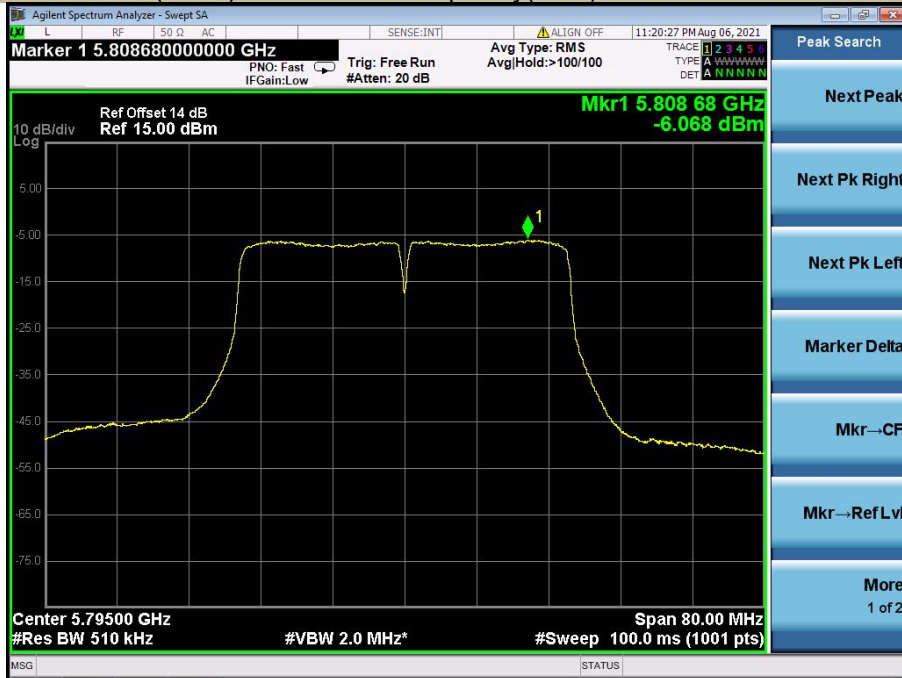
5755



Power Spectral Density
Test Model 802.11ac(HT40)

U-NII - 3
Frequency(MHz)

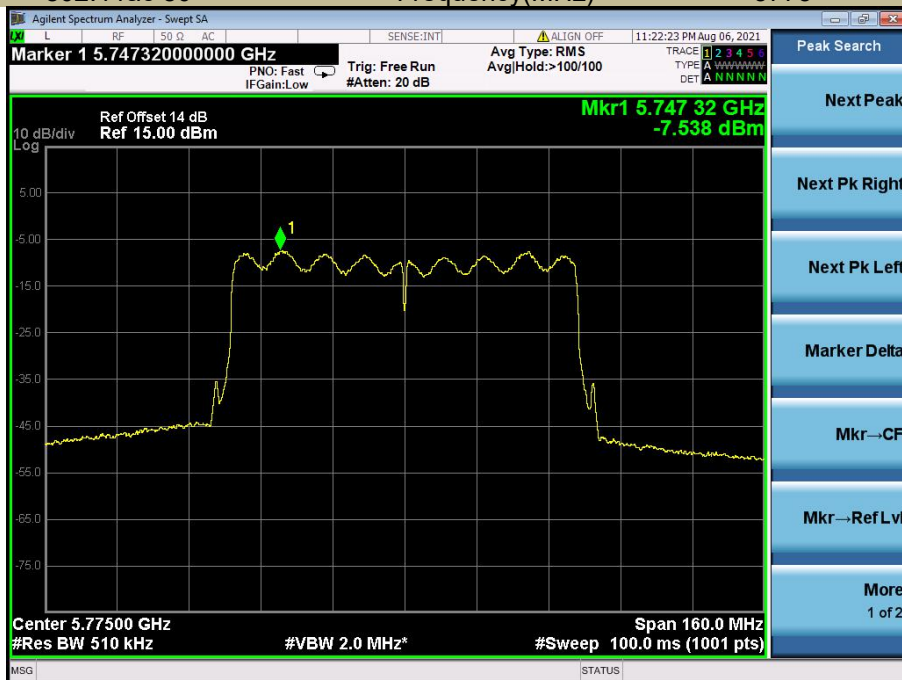
5795



Power Spectral Density
Test Model 802.11ac 80

U-NII - 3
Frequency(MHz)

5775



8.4 FREQUENCY STABILITY

8.4.1 Applicable Standard

According to FCC Part 15.407(g)
ANSI C63.10 Section 6.8

8.4.2 Conformance Limit

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.

8.4.3 Test Configuration

Test according to clause 6.1 radio frequency test setup

8.4.4 Test Procedure

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 10 kHz.

Set Span= Entire absence of modulation emissions band

Set the video bandwidth (VBW) =30 kHz. width

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

Allow the trace to stabilize.

The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value.

Beginning at each temperature level specified in user manual , the frequency shall be measured within one minute after application of primary power to the transmitter and at intervals of no more than one minute thereafter until ten minutes have elapsed or until sufficient measurements are obtained to indicate clearly that the frequency has stabilized within the applicable tolerance, whichever time period is greater. During each test, the ambient temperature shall not be allowed to rise more than 10° centigrade above the respective beginning ambient temperature level

Measure and record the results in the test report.

8.4.5 Test Results

802.11a 5180

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5179.9896	-10.40	Pass
	10	5179.9910	-8.99	Pass
	20	5179.9916	-8.44	Pass
	30	5179.9908	-9.18	Pass
	40	5179.9913	-8.70	Pass
85% Vnom	25	5179.9905	-9.53	Pass
115% Vnom	25	5179.9910	-8.98	Pass

5200

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5199.9878	-12.24	Pass
	10	5199.9875	-12.53	Pass
	20	5199.9870	-13.00	Pass
	30	5199.9881	-11.89	Pass
	40	5199.9876	-12.40	Pass
85% Vnom	25	5199.9879	-12.06	Pass
115% Vnom	25	5199.9874	-12.65	Pass

5240

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5239.9877	-12.33	Pass
	10	5239.9884	-11.62	Pass
	20	5239.9886	-11.41	Pass
	30	5239.9872	-12.79	Pass
	40	5239.9878	-12.22	Pass
85% Vnom	25	5239.9885	-11.49	Pass
115% Vnom	25	5239.9868	-13.24	Pass

5190

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5189.9882	-11.77	Pass
	10	5189.9879	-12.12	Pass
	20	5189.9868	-13.24	Pass
	30	5189.9881	-11.94	Pass
	40	5189.9875	-12.48	Pass
85% Vnom	25	5189.9881	-11.87	Pass
115% Vnom	25	5189.9879	-12.12	Pass

5230

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5229.9879	-12.12	Pass
	10	5229.9871	-12.86	Pass
	20	5229.9878	-12.25	Pass
	30	5229.9882	-11.82	Pass
	40	5229.9882	-11.81	Pass
85% Vnom	25	5229.9886	-11.45	Pass
115% Vnom	25	5229.9883	-11.71	Pass

5210

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5209.9886	-11.42	Pass
	10	5209.9886	-11.38	Pass
	20	5209.9898	-10.21	Pass
	30	5209.9892	-10.84	Pass
	40	5209.9892	-10.82	Pass
85% Vnom	25	5209.9900	-9.99	Pass
115% Vnom	25	5209.9894	-10.57	Pass

802.11a 5260

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5259.9876	-12.39	Pass
	10	5259.9875	-12.49	Pass
	20	5259.9882	-11.77	Pass
	30	5259.9878	-12.25	Pass
	40	5259.9871	-12.93	Pass
85% Vnom	25	5259.9877	-12.26	Pass
115% Vnom	25	5259.9877	-12.30	Pass

5280

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5279.9869	-13.07	Pass
	10	5279.9878	-12.18	Pass
	20	5279.9877	-12.30	Pass
	30	5279.9881	-11.90	Pass
	40	5279.9885	-11.53	Pass
85% Vnom	25	5279.9879	-12.10	Pass
115% Vnom	25	5279.9879	-12.08	Pass

5320

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5319.9883	-11.67	Pass
	10	5319.9867	-13.30	Pass
	20	5319.9866	-13.38	Pass
	30	5319.9879	-12.09	Pass
	40	5319.9875	-12.55	Pass
85% Vnom	25	5319.9879	-12.06	Pass
115% Vnom	25	5319.9867	-13.30	Pass

5270

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5269.9869	-13.09	Pass
	10	5269.9868	-13.20	Pass
	20	5269.9873	-12.71	Pass
	30	5269.9883	-11.70	Pass
	40	5269.9866	-13.41	Pass
85% Vnom	25	5269.9878	-12.20	Pass
115% Vnom	25	5269.9870	-12.96	Pass

5310

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5309.9889	-11.11	Pass
	10	5309.9888	-11.24	Pass
	20	5309.9907	-9.29	Pass
	30	5309.9897	-10.26	Pass
	40	5309.9895	-10.52	Pass
85% Vnom	25	5309.9891	-10.95	Pass
115% Vnom	25	5309.9900	-10.00	Pass

5290

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5289.9873	-12.75	Pass
	10	5289.9874	-12.60	Pass
	20	5289.9877	-12.26	Pass
	30	5289.9886	-11.44	Pass
	40	5289.9873	-12.73	Pass
85% Vnom	25	5289.9880	-12.00	Pass
115% Vnom	25	5289.9883	-11.70	Pass

802.11a 5500

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5499.9883	-11.67	Pass
	10	5499.9881	-11.94	Pass
	20	5499.9885	-11.54	Pass
	30	5499.9878	-12.16	Pass
	40	5499.9881	-11.95	Pass
85% Vnom	25	5499.9885	-11.49	Pass
115% Vnom	25	5499.9881	-11.95	Pass

5600

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5599.9887	-11.30	Pass
	10	5599.9888	-11.18	Pass
	20	5599.9877	-12.32	Pass
	30	5599.9885	-11.53	Pass
	40	5599.9895	-10.54	Pass
85% Vnom	25	5599.9895	-10.54	Pass
115% Vnom	25	5599.9888	-11.19	Pass

5700

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5699.9876	-12.38	Pass
	10	5699.9873	-12.71	Pass
	20	5699.9876	-12.42	Pass
	30	5699.9879	-12.10	Pass
	40	5699.9887	-11.27	Pass
85% Vnom	25	5699.9867	-13.27	Pass
115% Vnom	25	5699.9874	-12.63	Pass

5510

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5509.9904	-9.61	Pass
	10	5509.9914	-8.60	Pass
	20	5509.9914	-8.57	Pass
	30	5509.9915	-8.47	Pass
	40	5509.9902	-9.77	Pass
85% Vnom	25	5509.9901	-9.90	Pass
115% Vnom	25	5509.9910	-9.00	Pass

5670

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5669.9925	-7.55	Pass
	10	5669.9922	-7.83	Pass
	20	5669.9919	-8.12	Pass
	30	5669.9920	-8.03	Pass
	40	5669.9918	-8.19	Pass
85% Vnom	25	5669.9916	-8.36	Pass
115% Vnom	25	5669.9921	-7.88	Pass

5530

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5529.9882	-11.82	Pass
	10	5529.9882	-11.76	Pass
	20	5529.9894	-10.60	Pass
	30	5529.9885	-11.48	Pass
	40	5529.9890	-11.00	Pass
85% Vnom	25	5529.9885	-11.52	Pass
115% Vnom	25	5529.9885	-11.50	Pass

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5745

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5744.9875	-12.46	Pass
	10	5744.9876	-12.41	Pass
	20	5744.9864	-13.60	Pass
	30	5744.9871	-12.89	Pass
	40	5744.9870	-12.97	Pass
85% Vnom	25	5744.9866	-13.44	Pass
115% Vnom	25	5744.9872	-12.80	Pass

5785

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5784.9918	-8.23	Pass
	10	5784.9937	-6.31	Pass
	20	5784.9919	-8.08	Pass
	30	5784.9922	-7.82	Pass
	40	5784.9933	-6.73	Pass
85% Vnom	25	5784.9916	-8.43	Pass
115% Vnom	25	5784.9929	-7.08	Pass

5825

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5824.9873	-12.73	Pass
	10	5824.9872	-12.80	Pass
	20	5824.9873	-12.73	Pass
	30	5824.9882	-11.83	Pass
	40	5824.9869	-13.10	Pass
85% Vnom	25	5824.9871	-12.87	Pass
115% Vnom	25	5824.9875	-12.52	Pass

5755

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5754.9911	-8.91	Pass
	10	5754.9914	-8.62	Pass
	20	5754.9913	-8.71	Pass
	30	5754.9913	-8.71	Pass
	40	5754.9897	-10.33	Pass
85% Vnom	25	5754.9902	-9.77	Pass
115% Vnom	25	5754.9906	-9.40	Pass

5795

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5794.9880	-12.01	Pass
	10	5794.9875	-12.47	Pass
	20	5794.9874	-12.57	Pass
	30	5794.9874	-12.59	Pass
	40	5794.9879	-12.12	Pass
85% Vnom	25	5794.9870	-13.03	Pass
115% Vnom	25	5794.9876	-12.38	Pass

5775

Voltage(V)	Temp(°C)	Test Frequency (MHz)	Max. Deviation (KHz)	Verdict
	0	5774.9920	-8.02	Pass
	10	5774.9913	-8.74	Pass
	20	5774.9909	-9.11	Pass
	30	5774.9926	-7.37	Pass
	40	5774.9924	-7.58	Pass
85% Vnom	25	5774.9926	-7.38	Pass
115% Vnom	25	5774.9924	-7.60	Pass