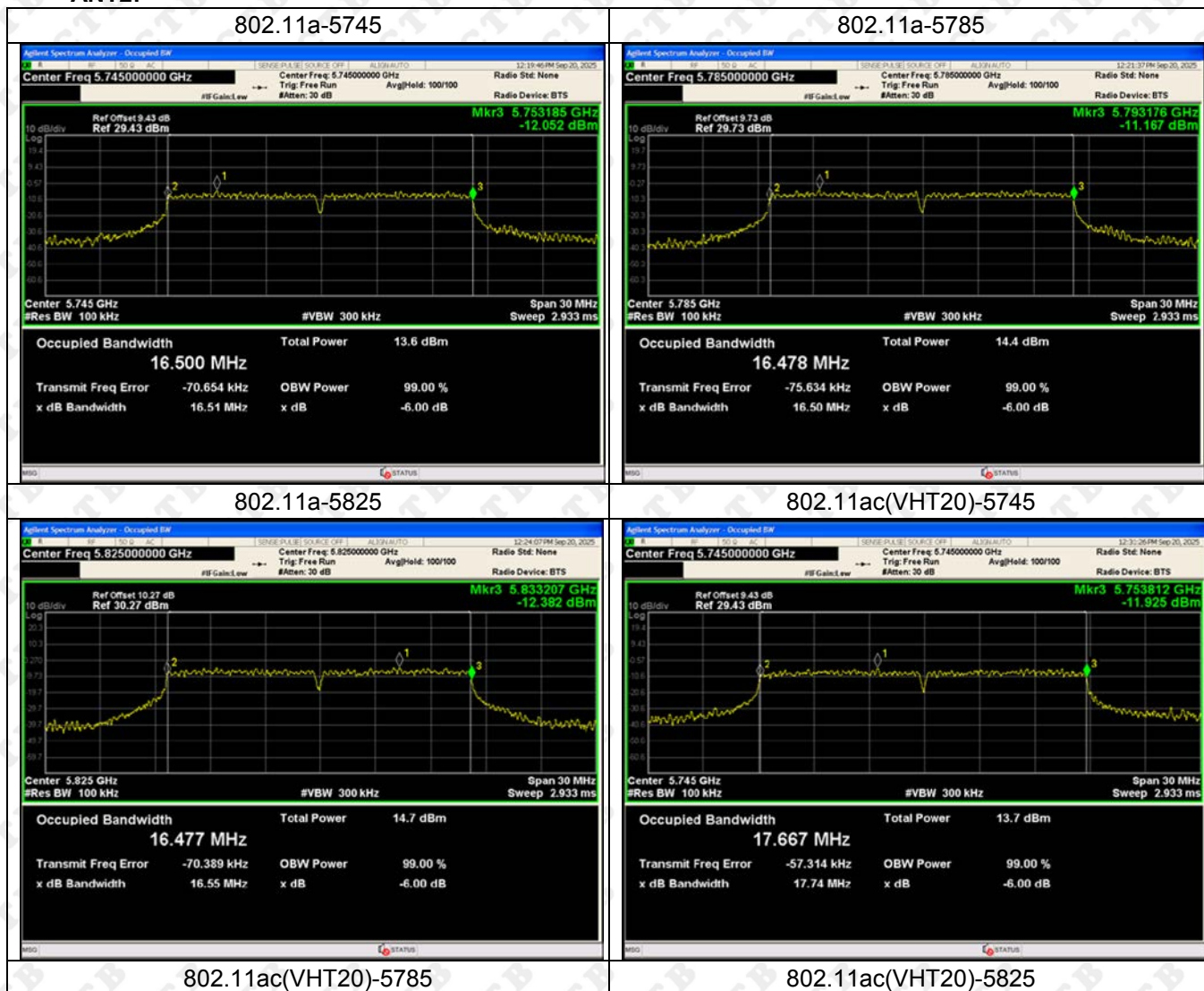


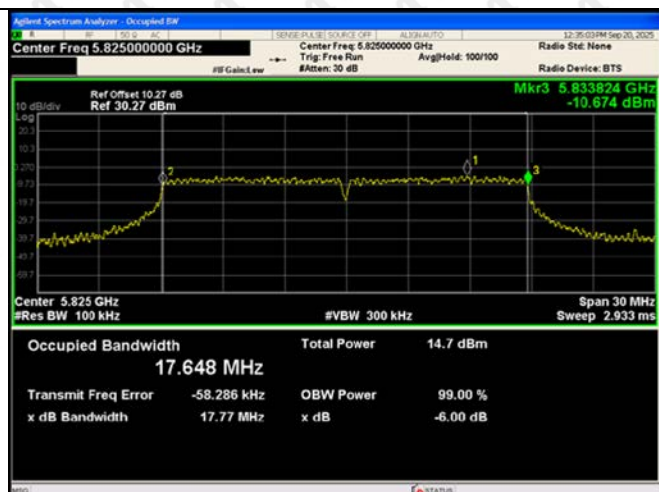


5725-5850MHz ANT2:

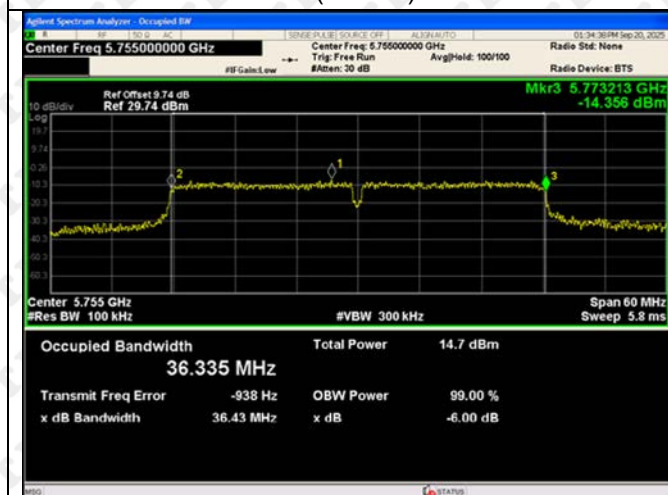




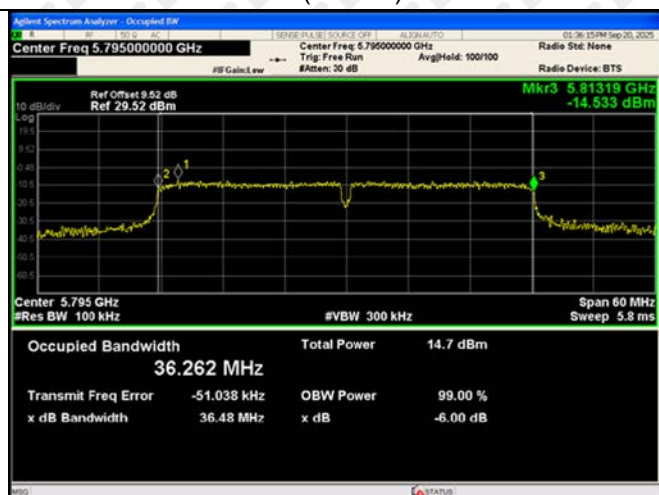
802.11ac(VHT40)-5755



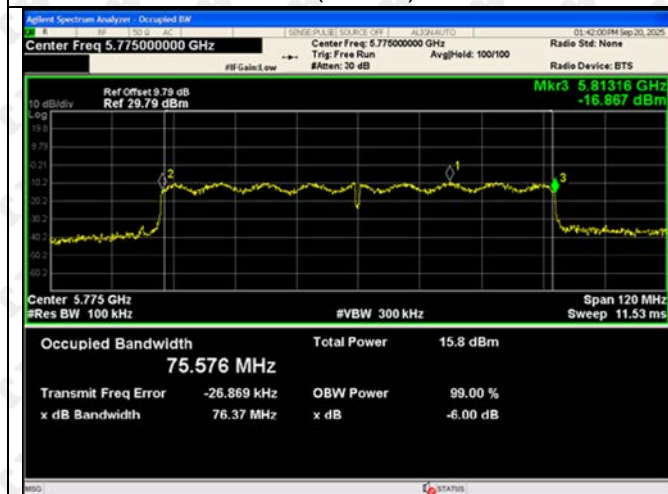
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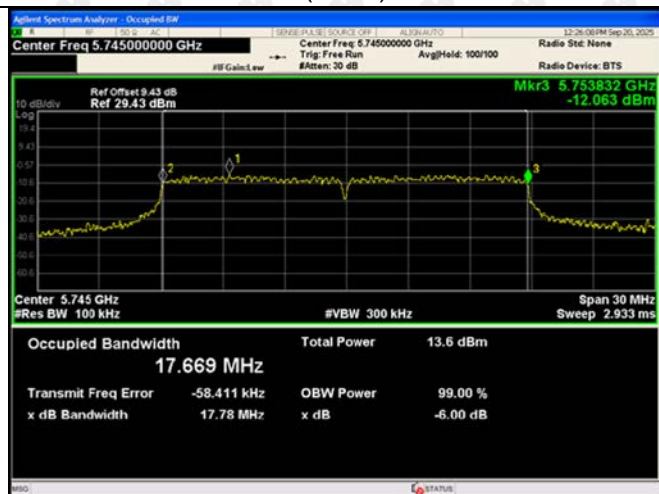
802.11ac(VHT80)-5775



802.11n(HT20)-5745



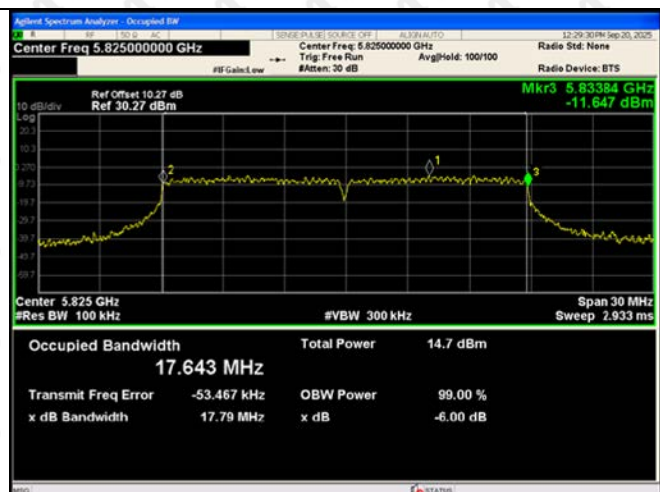
802.11n(HT20)-5785



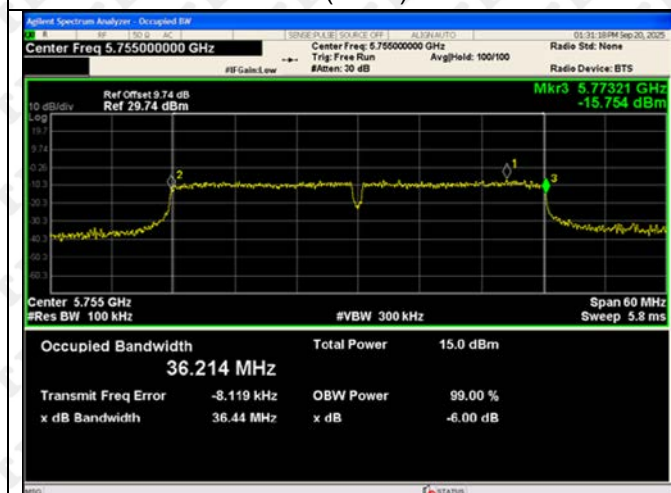
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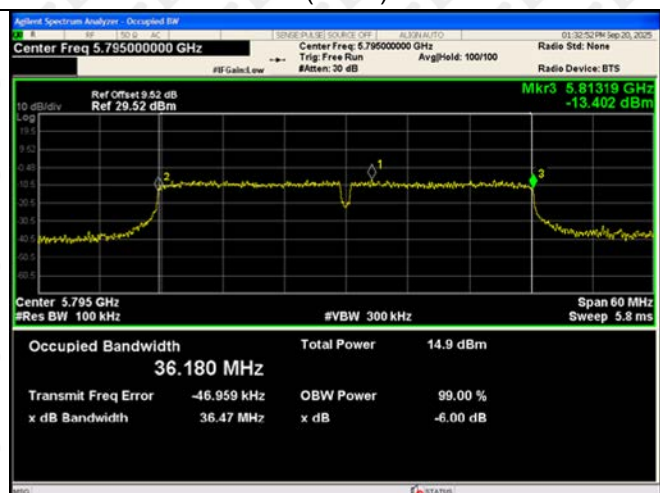
5802.11n(HT40)-5755



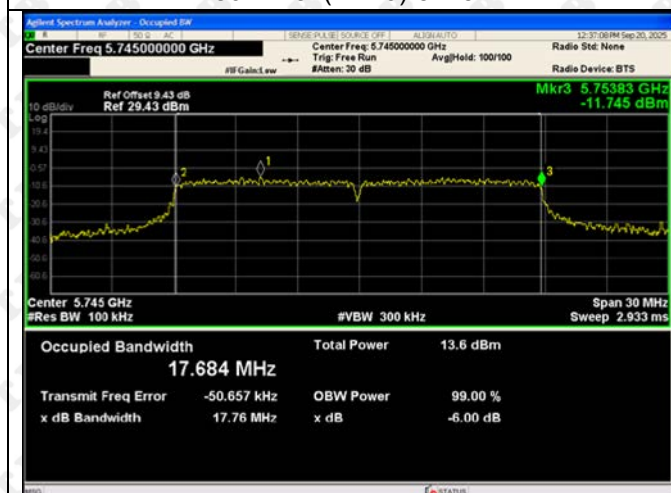
802.11n(HT40)-5795



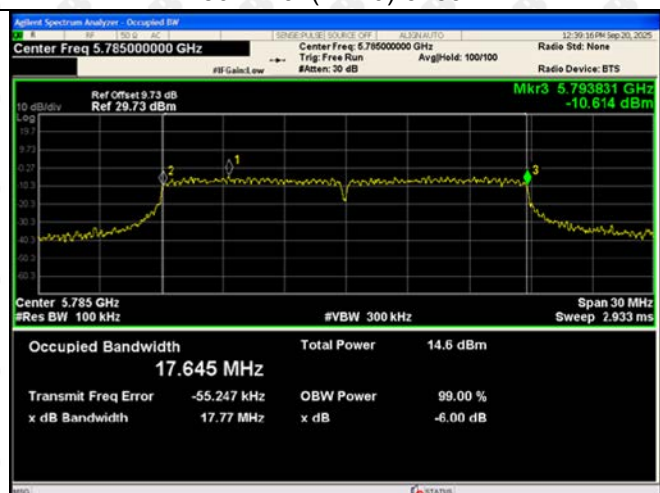
802.11ax(HE20)-5745



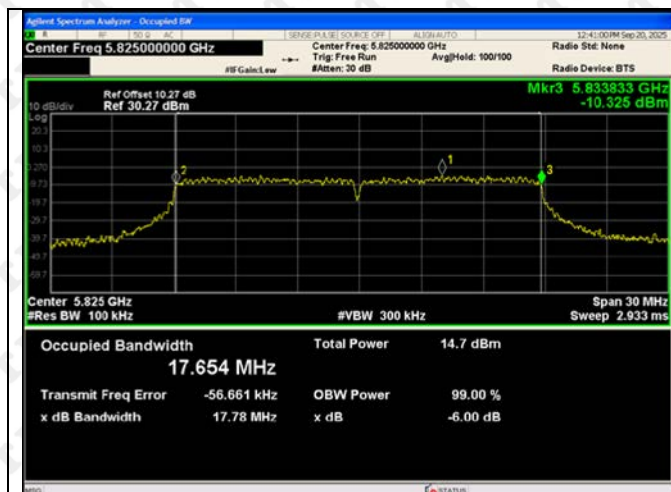
802.11ax(HE20)-5785



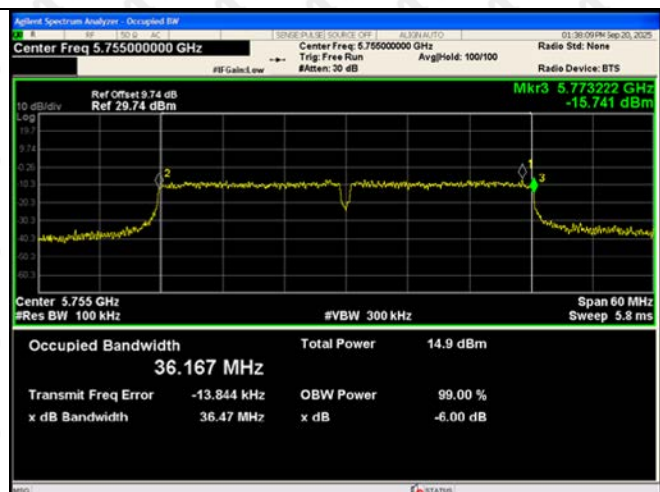
802.11ax(HE20)-5825



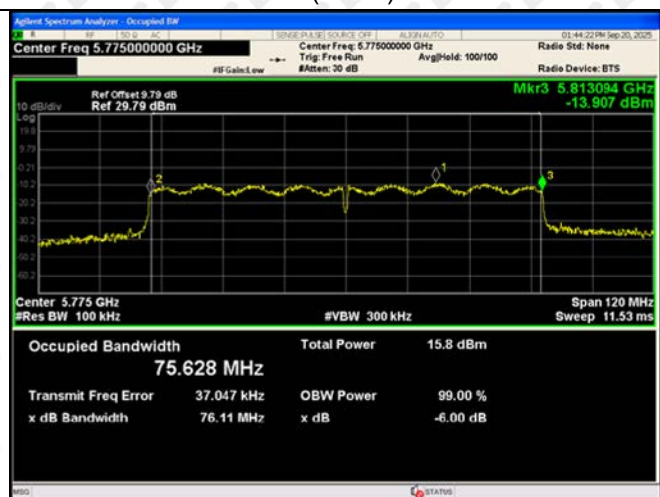
802.11ax(HE40)-5755



802.11ax(HE40)-5795

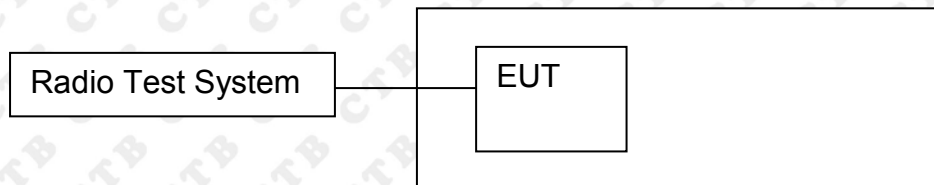


802.11ax(HE80)-5775



11. POWER SPECTRAL DENSITY

11.1 Block Diagram Of Test Setup



11.2 Limit

(1) For the band 5.15-5.25 GHz.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

11.3 Test procedure

According to KDB789033 D02v02r01 sectionE, the following is the measurement procedure.

For devices operating in the bands 5.15–5.25 GHz, 5.25–5.35 GHz, and 5.47–5.725 GHz, the preceding procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in Section 15.407(a)(5). For devices operating in the band 5.725–5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth ($< 1 \text{ MHz}$, or $< 500 \text{ kHz}$) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:

a) Set $\text{RBW} \geq 1/T$, where T is defined in II.B.I.a).

b) Set $\text{VBW} \geq 3 \text{ RBW}$.

c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log (500 \text{ kHz}/\text{RBW})$ to the

measured result, whereas RBW (< 500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.

d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10 \log (1\text{MHz}/\text{RBW})$ to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.

e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 kHz for the II.F.5.c) and II.F.5.d), since RBW=100 kHz is available on nearly all spectrum analyzers.

11.4 Test Result

ANT1+ANT2

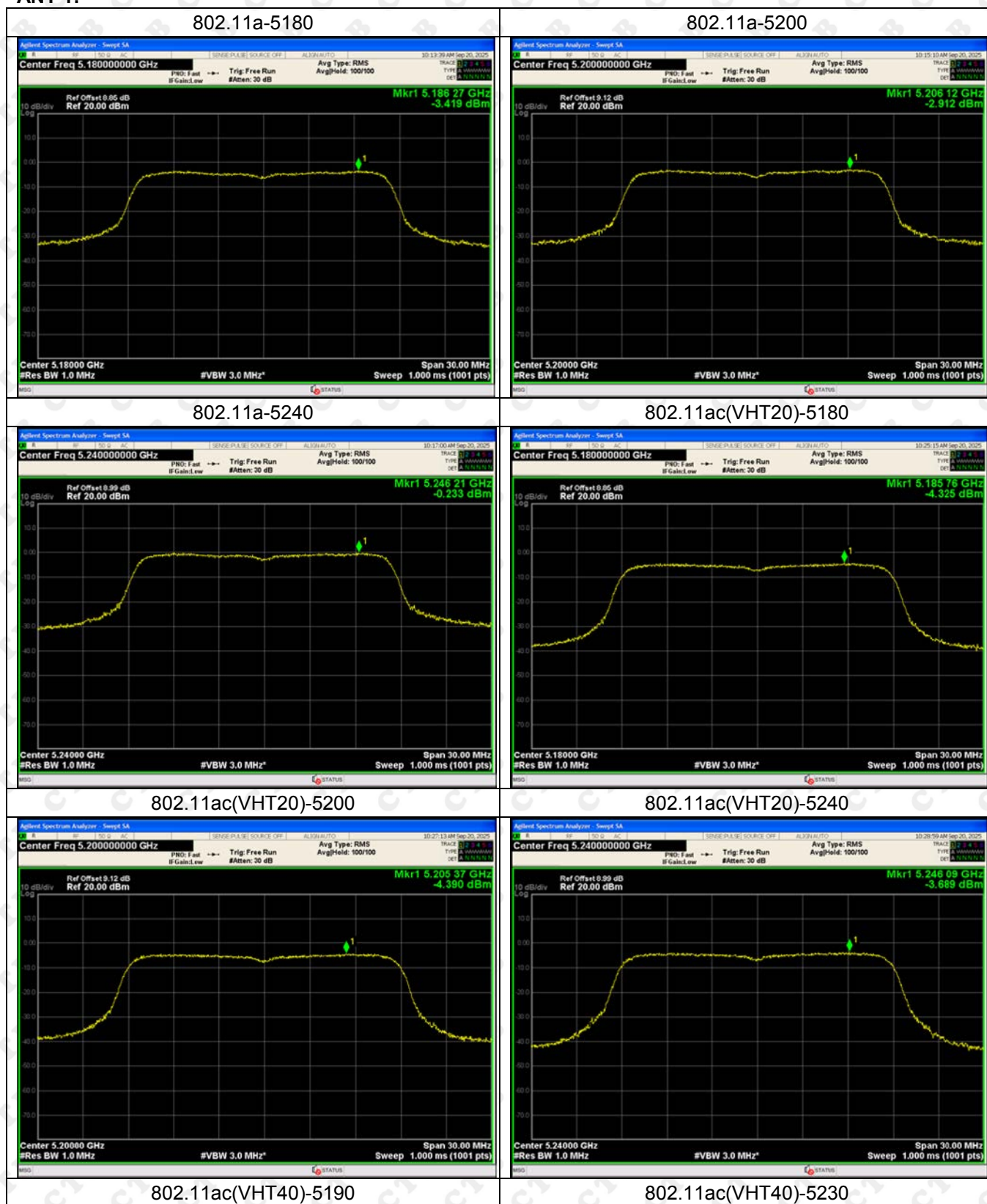
5150MHz ~5250MHz:

Test mode	Test Channel (MHz)	PSD [dBm/MHz] ANT 1	PSD [dBm/MHz] ANT 2	PSD [dBm/MHz] Total	Limit (dBm/MHz)	Result
802.11a	5180	-3.419	-4.235	/	11	Pass
	5200	-2.912	-3.754	/	11	Pass
	5240	-0.233	-2.616	/	11	Pass
802.11ac(VHT20)	5180	-4.325	-4.684	-1.490	11	Pass
	5200	-4.39	-4.217	-1.292	11	Pass
	5240	-3.689	-3.28	-0.469	11	Pass
802.11ac(VHT40)	5190	-7.572	-7.581	-4.566	11	Pass
	5230	-6.387	-6.36	-3.363	11	Pass
802.11ac(VHT80)	5230	-8.585	-9.22	-5.881	11	Pass
802.11n(HT20)	5180	-3.266	-3.55	-0.395	11	Pass
	5200	-2.798	-4.475	-0.546	11	Pass
	5240	-2.256	-3.245	0.288	11	Pass
802.11n(HT40)	5190	-7.24	-7.315	-4.267	11	Pass
	5230	-6.298	-6.329	-3.303	11	Pass
802.11ax(HE20)	5180	-4.789	-4.617	-1.692	11	Pass
	5200	-4.27	-4.131	-1.190	11	Pass
	5240	-3.25	-3.496	-0.361	11	Pass
802.11ax(HE40)	5190	-7.052	-7.373	-4.199	11	Pass
	5230	-6.035	-5.757	-2.883	11	Pass
802.11ax(HE80)	5210	-8.588	-9.04	-5.798	11	Pass

5725-5850MHz:

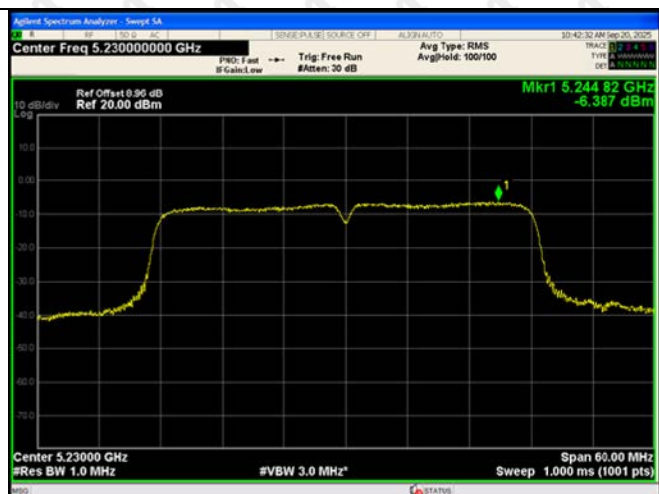
Test mode	Test Channel (MHz)	PSD [dBm/MHz] ANT 1	PSD [dBm/MHz] ANT 2	PSD [dBm/MHz] Total	Limit (dBm)	Result
802.11a	5745	-6.283	-6.621	/	30	Pass
	5785	-5.179	-5.545	/	30	Pass
	5825	-6.591	-5.619	/	30	Pass
802.11ac(VHT20)	5745	-6.542	-6.927	-3.720	30	Pass
	5785	-6.514	-6.18	-3.333	30	Pass
	5825	-6.229	-5.898	-3.050	30	Pass
802.11ac(VHT40)	5755	-9.412	-9.245	-6.317	30	Pass
	5795	-9.467	-9.372	-6.409	30	Pass
802.11ac(VHT80)	5795	-11.544	-10.814	-8.153	30	Pass
802.11n(HT20)	5745	-6.587	-6.608	-3.587	30	Pass
	5785	-7.023	-6.04	-3.493	30	Pass
	5825	-6.434	-5.655	-3.017	30	Pass
802.11n(HT40)	5755	-9.598	-8.704	-6.118	30	Pass
	5795	-9.725	-8.997	-6.335	30	Pass
802.11ax(HE20)	5745	-6.682	-7.118	-3.884	30	Pass
	5785	-6.361	-6.109	-3.223	30	Pass
	5825	-6.22	-5.926	-3.060	30	Pass
802.11ax(HE40)	5755	-8.809	-8.755	-5.772	30	Pass
	5795	-9.305	-9.242	-6.263	30	Pass
802.11ax(HE80)	5775	-11.388	-11.026	-8.193	30	Pass

ANT 1:

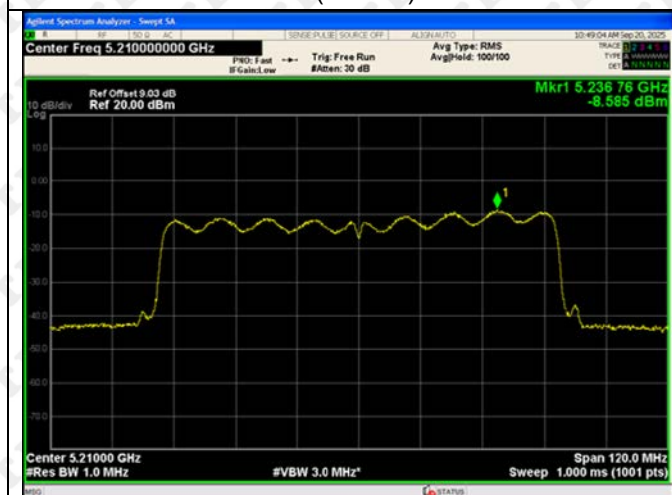




802.11ac(VHT80)-5210



802.11n(HT20)-5180



802.11n(HT20)-5200



802.11n(HT20)-5240



802.11n(HT40)-5190



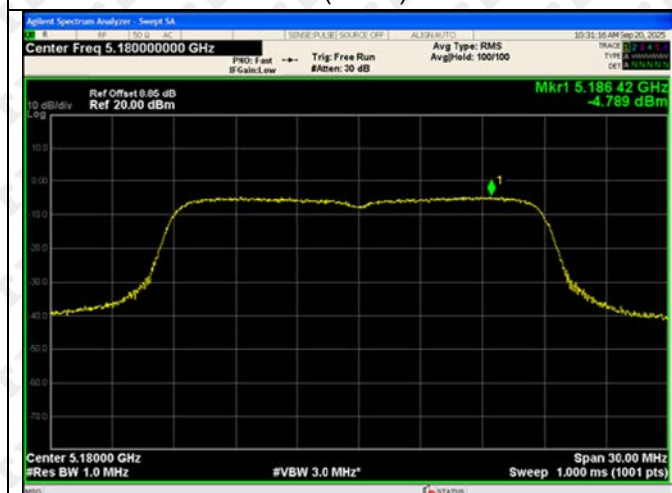
802.11n(HT40)-5230



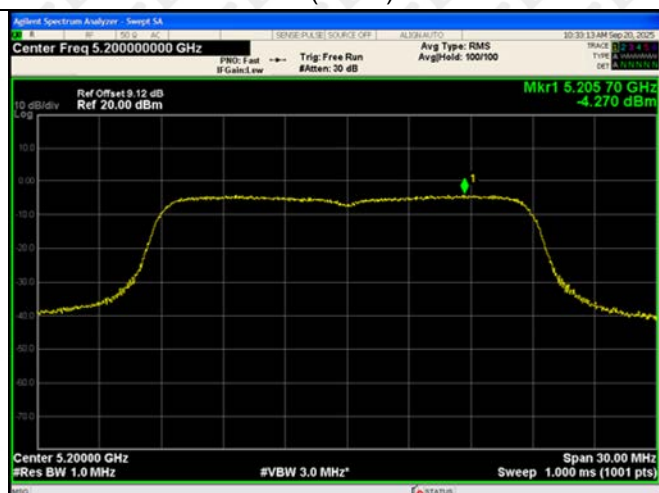
802.11ax(HE20)-5180



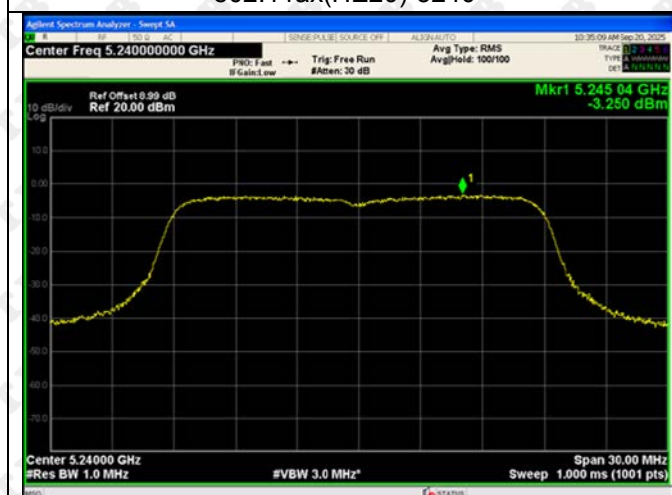
802.11ax(HE20)-5200



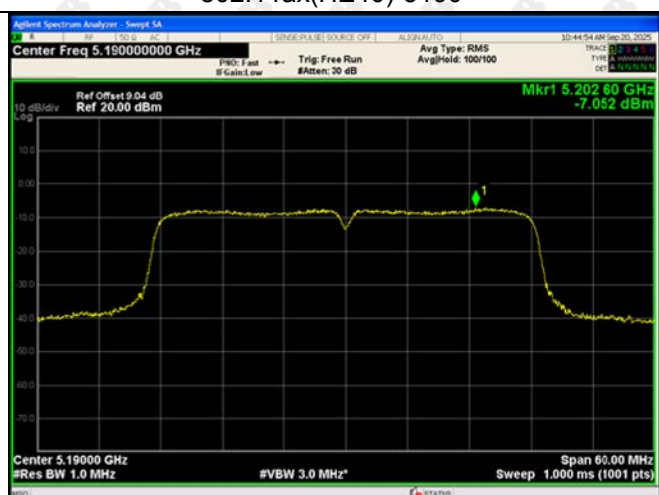
802.11ax(HE20)-5240



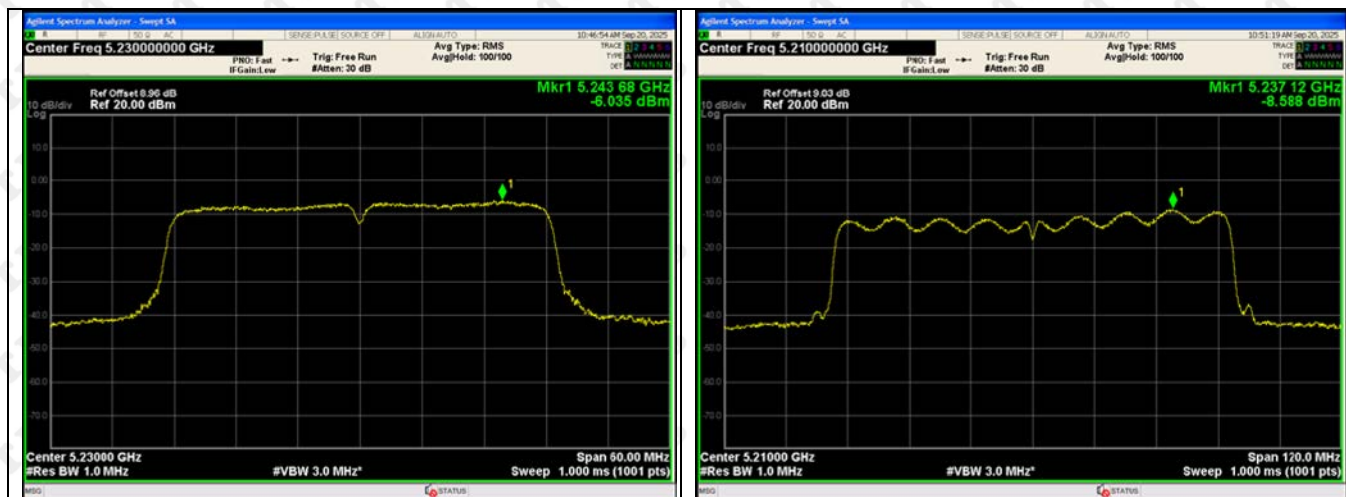
802.11ax(HE40)-5190



802.11ax(HE40)-5230



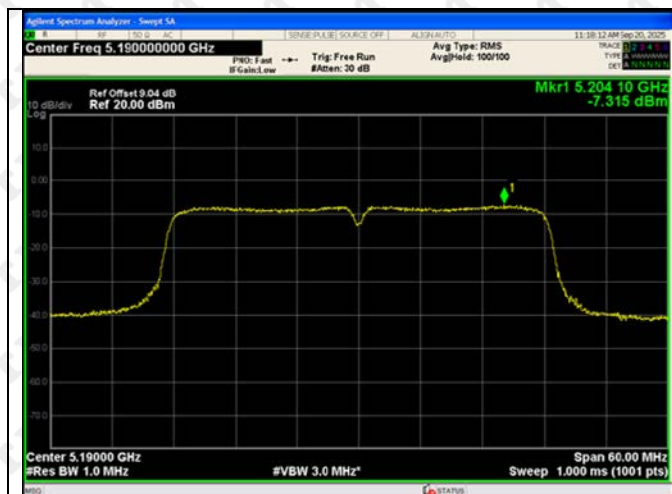
802.11ax(HE80)-5210



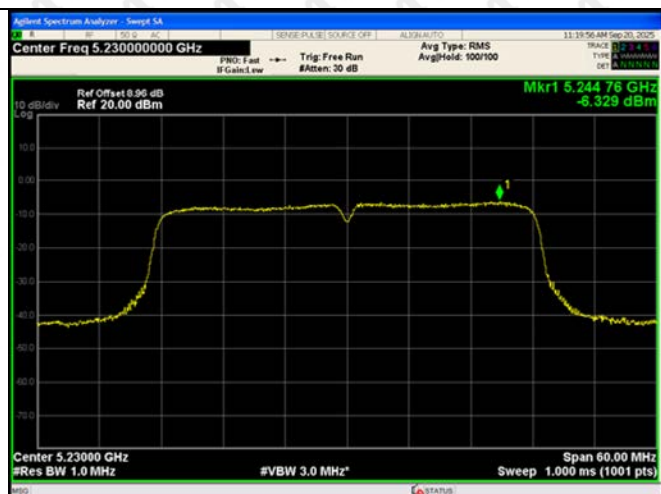
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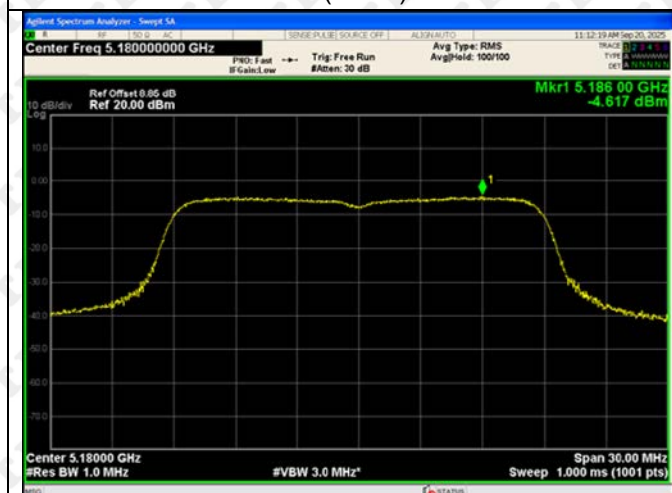




802.11ax(HE20)-5180



802.11ax(HE20)-5200



802.11ax(HE20)-5240



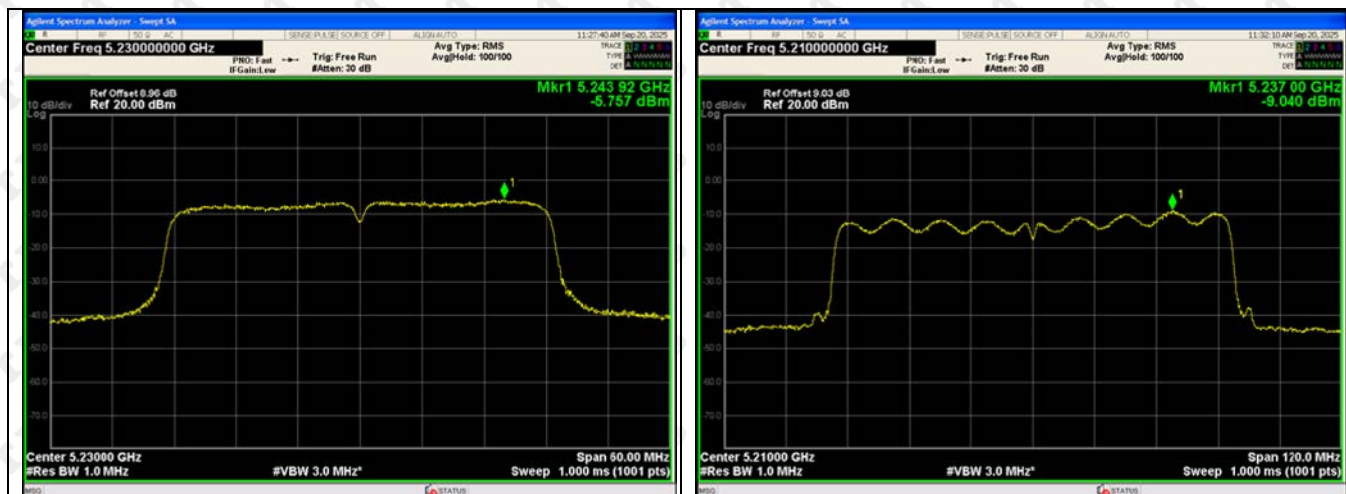
802.11ax(HE40)-5190



802.11ax(HE40)-5230

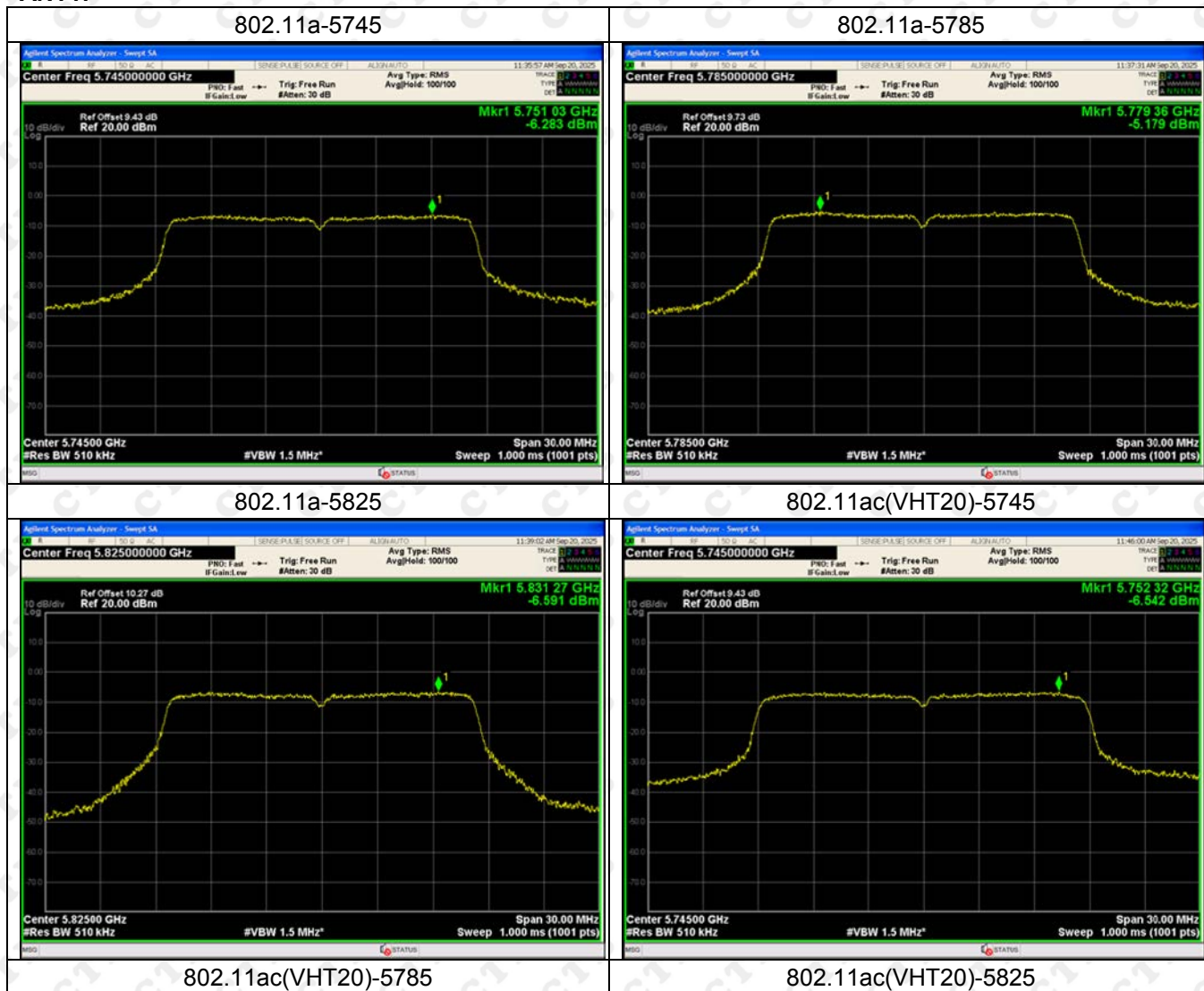


802.11ax(HE80)-5210



5725-5850MHz

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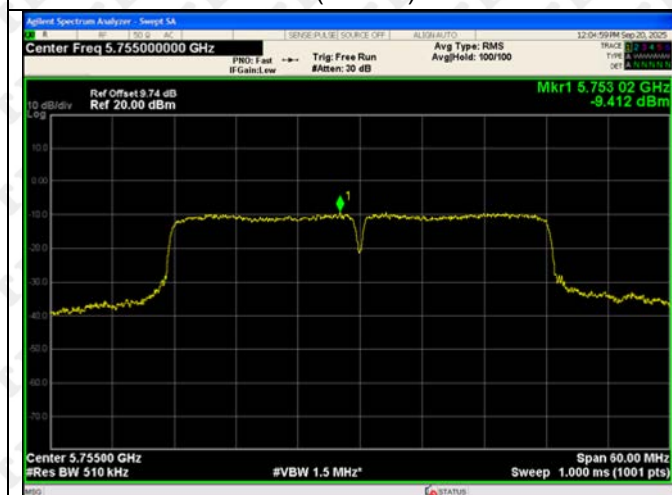




802.11ac(VHT40)-5755



802.11ac(VHT40)-5795



802.11ac(VHT80)-5775



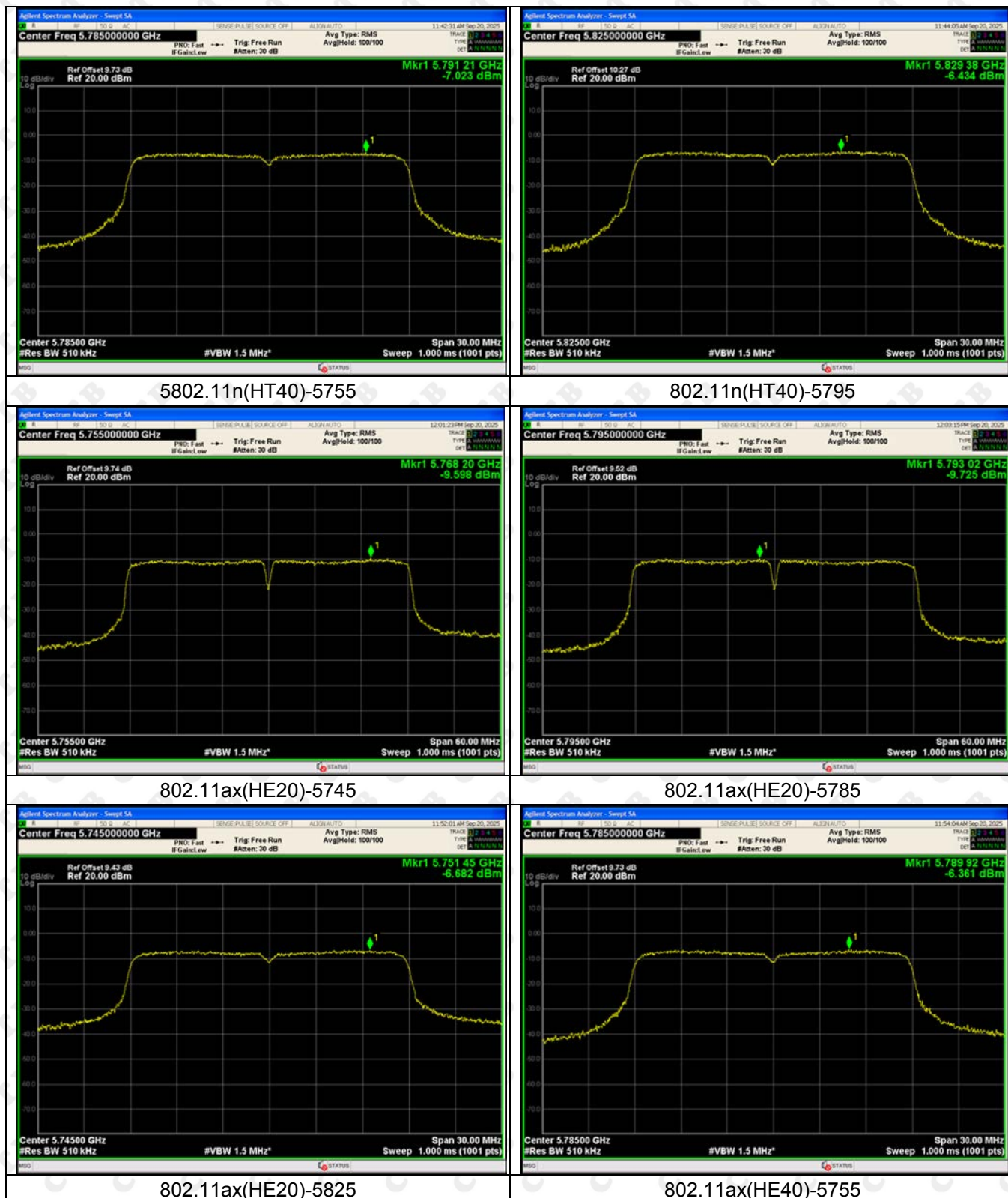
802.11ac(VHT80)-5795



802.11n(HT20)-5785

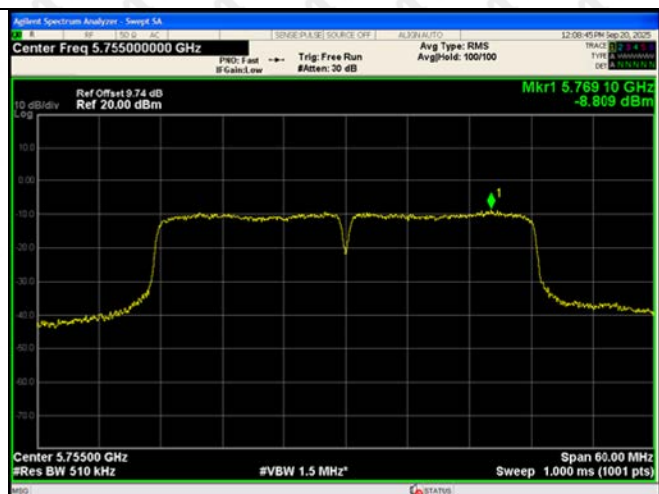


802.11n(HT20)-5825

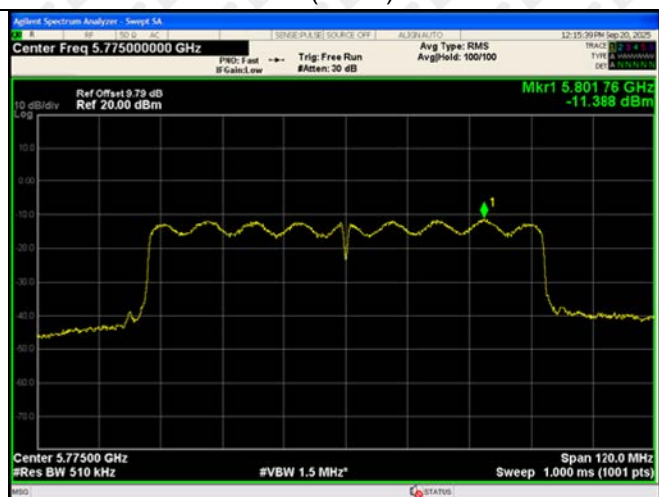
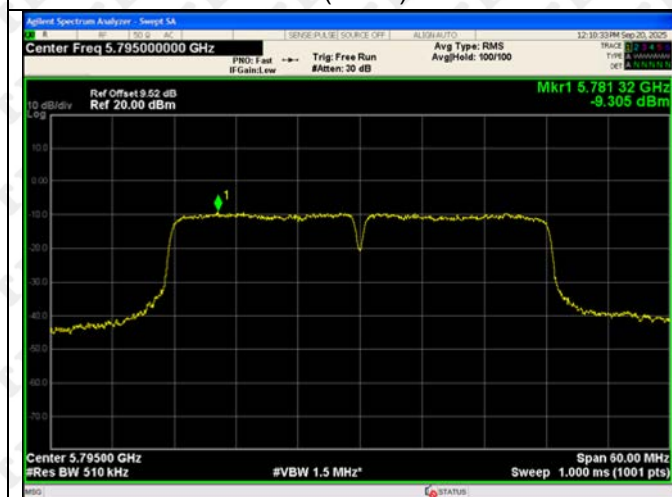




802.11ax(HE40)-5795

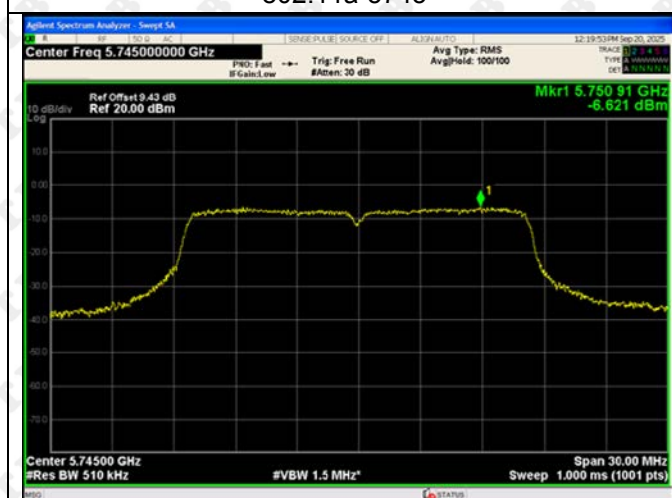


802.11ax(HE80)-5775



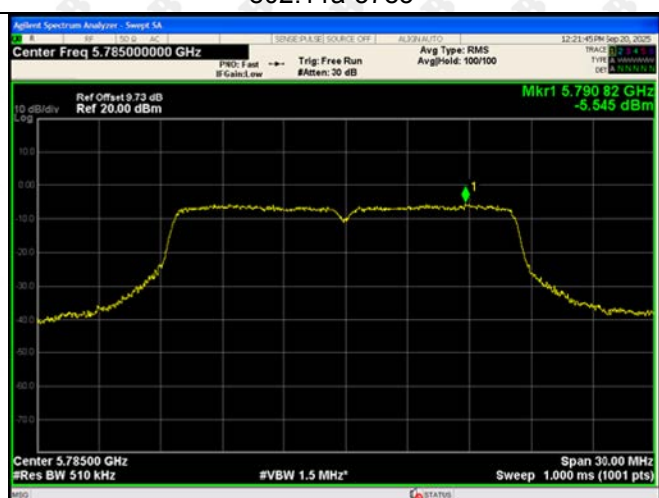
ANT2:

802.11a-5745

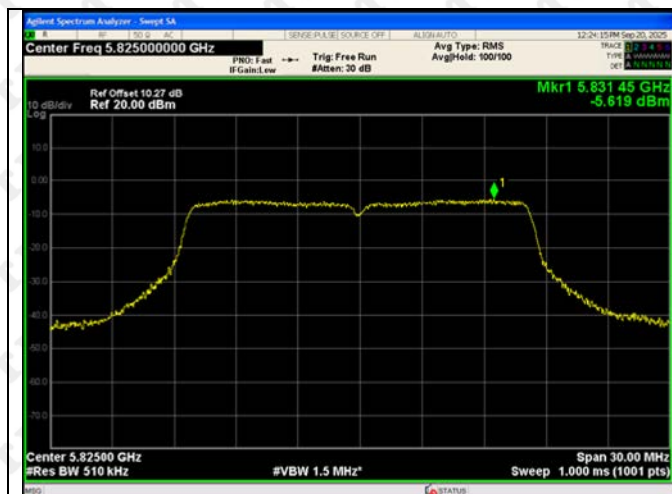


802.11a-5825

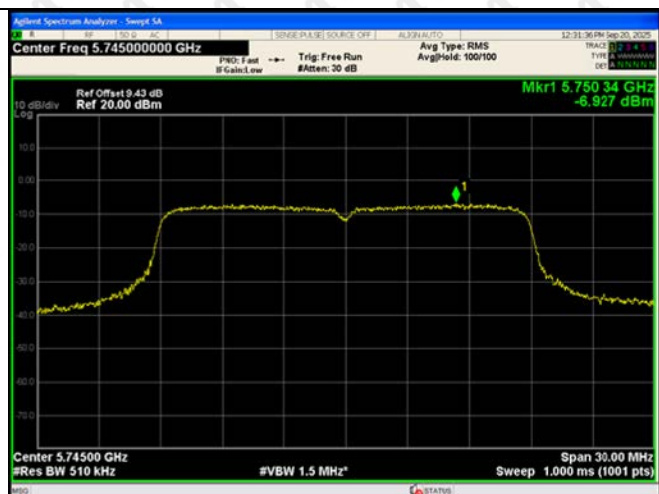
802.11a-5785



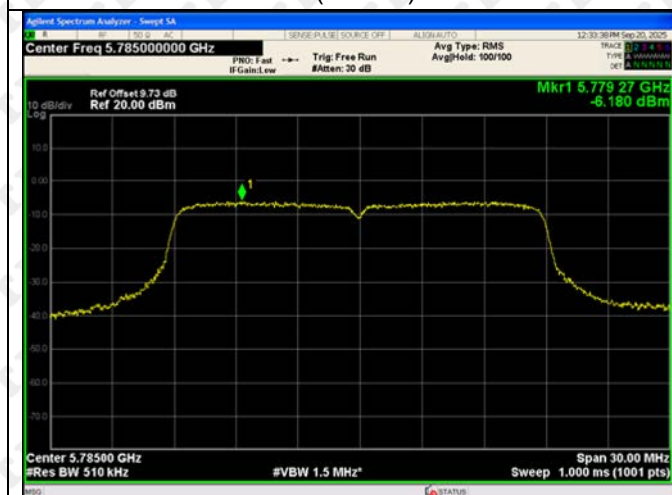
802.11ac(VHT20)-5745



802.11ac(VHT20)-5785



802.11ac(VHT20)-5825



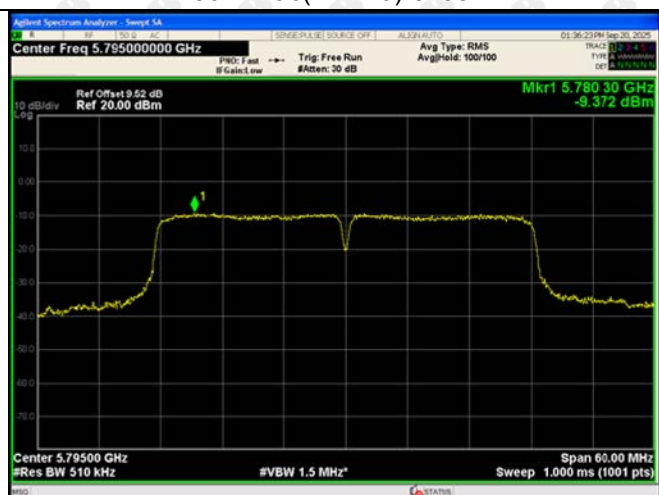
802.11ac(VHT40)-5755



802.11ac(VHT40)-5795



802.11ac(VHT80)-5775



802.11n(HT20)-5745



802.11n(HT20)-5785



802.11n(HT20)-5825



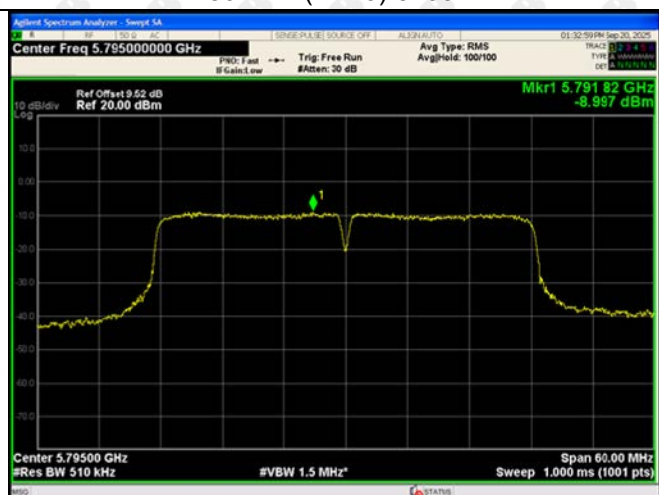
5802.11n(HT40)-5755



802.11n(HT40)-5795



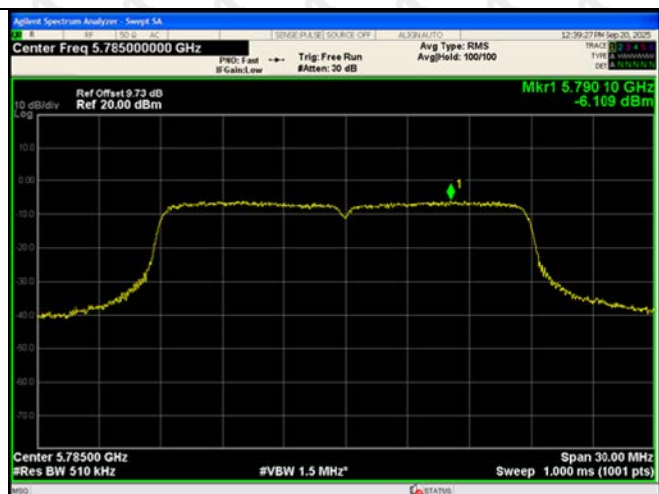
802.11ax(HE20)-5745



802.11ax(HE20)-5785



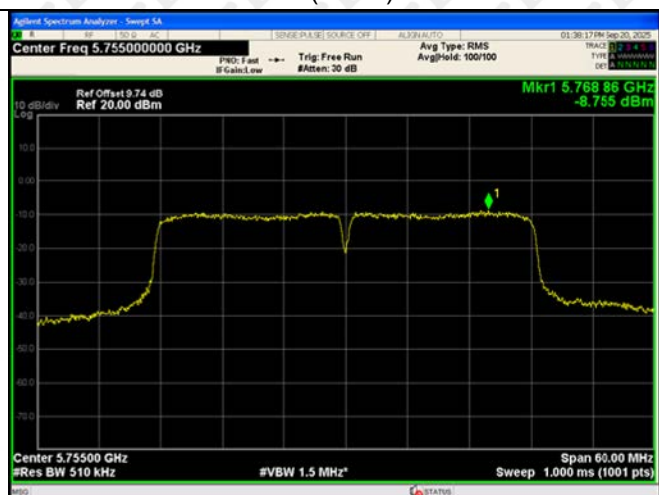
802.11ax(HE20)-5825



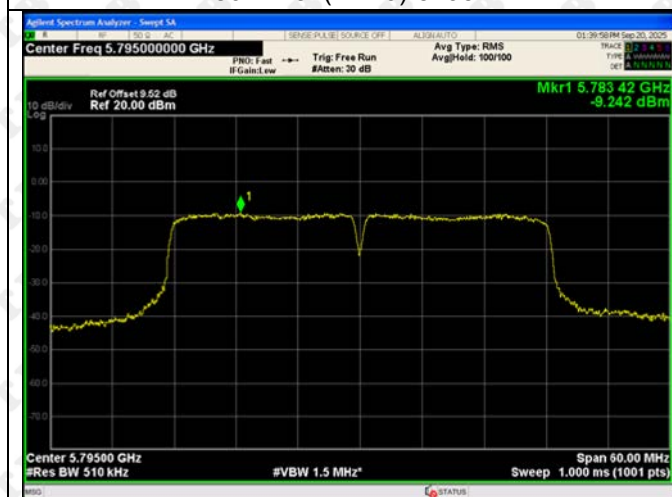
802.11ax(HE40)-5755



802.11ax(HE40)-5795

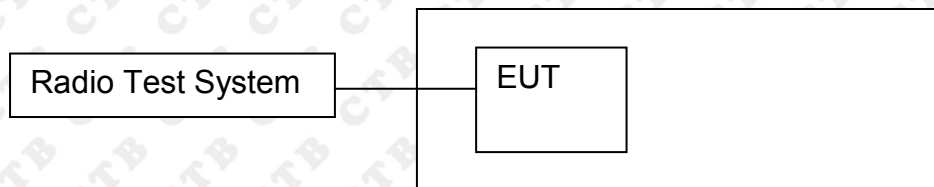


802.11ax(HE80)-5775



12. FREQUENCY STABILITY

12.1 Block Diagram Of Test Setup



12.2 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 user's manual.

12.3 Test procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

12.4 Test Result

TX Frequency (5150-5250MHz)

ANT1

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5180.0006	5180	0.0006	0.1202
		V max (V)	132	5180.0033	5180	0.0033	0.6291
		V min (V)	108	5180.0032	5180	0.0032	0.6155
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5180.0079	5180	0.0079	1.5335
		T (°C)	10	5180.0057	5180	0.0057	1.1032
		T (°C)	20	5180.0281	5180	0.0281	5.4210
		T (°C)	30	5180.0011	5180	0.0011	0.2133
		T (°C)	40	5180.0073	5180	0.0073	1.4136
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5200.0067	5200	0.0067	1.2973
		V max (V)	132	5200.0191	5200	0.0191	3.6727
		V min (V)	108	5200.0532	5200	0.0532	10.2402
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5200.0097	5200	0.0097	1.8734
		T (°C)	10	5200.0269	5200	0.0269	5.1672
		T (°C)	20	5200.0309	5200	0.0309	5.9449
		T (°C)	30	5200.0415	5200	0.0415	7.9802
		T (°C)	40	5200.0354	5200	0.0354	6.8003
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5240.0013	5240	0.0013	0.2388
		V max (V)	132	5240.0204	5240	0.0204	3.8912
		V min (V)	108	5240.0432	5240	0.0432	8.2476
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5240.0021	5240	0.0021	0.4055
		T (°C)	10	5240.0445	5240	0.0445	8.4868
		T (°C)	20	5240.0391	5240	0.0391	7.4552
		T (°C)	30	5240.0123	5240	0.0123	2.3410
		T (°C)	40	5240.0181	5240	0.0181	3.4588
Limits				±20ppm			
Result				Complies			

TX Frequency (5725-5850MHz)

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5745.0703	5745	0.0703	12.2451
		V max (V)	132	5745.0863	5745	0.0863	15.0188
		V min (V)	108	5745.0703	5745	0.0703	12.2451
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5745.0237	5745	0.0237	4.1271
		T (°C)	10	5745.0149	5745	0.0149	2.5936
		T (°C)	20	5745.0102	5745	0.0102	1.7780
		T (°C)	30	5745.0385	5745	0.0385	6.6943
		T (°C)	40	5745.0633	5745	0.0633	11.0099
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5785.0135	5785	0.0135	2.3290
		V max (V)	132	5785.0578	5785	0.0578	9.9898
		V min (V)	108	5785.0863	5785	0.0863	14.9231
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5785.0741	5785	0.0741	12.8127
		T (°C)	10	5785.0831	5785	0.0831	14.3563
		T (°C)	20	5785.0446	5785	0.0446	7.7076
		T (°C)	30	5785.0401	5785	0.0401	6.9347
		T (°C)	40	5785.0268	5785	0.0268	4.6401
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5825.0460	5825	0.0460	7.9027
		V max (V)	132	5825.0558	5825	0.0558	9.5752
		V min (V)	108	5825.0035	5825	0.0035	0.5995
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5825.0553	5825	0.0553	9.4957
		T (°C)	10	5825.0179	5825	0.0179	3.0794
		T (°C)	20	5825.0119	5825	0.0119	2.0443
		T (°C)	30	5825.0293	5825	0.0293	5.0309
		T (°C)	40	5825.0124	5825	0.0124	2.1220
Limits				±20ppm			
Result				Complies			

ANT2:

TX Frequency (5150-5250MHz)

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5180.0323	5180	0.0323	6.2340
		V max (V)	132	5180.0898	5180	0.0898	17.3437
		V min (V)	108	5180.0700	5180	0.0700	13.5107
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5180.0909	5180	0.0909	17.5442
		T (°C)	10	5180.0558	5180	0.0558	10.7646
		T (°C)	20	5180.0331	5180	0.0331	6.3946
		T (°C)	30	5180.0723	5180	0.0723	13.9514
		T (°C)	40	5180.0856	5180	0.0856	16.5257
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5200.0049	5200	0.0049	0.9345
		V max (V)	132	5200.0870	5200	0.0870	16.7273
		V min (V)	108	5200.0088	5200	0.0088	1.6852
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5200.0059	5200	0.0059	1.1397
		T (°C)	10	5200.0099	5200	0.0099	1.8992
		T (°C)	20	5200.0043	5200	0.0043	0.8258
		T (°C)	30	5200.0537	5200	0.0537	10.3307
		T (°C)	40	5200.0728	5200	0.0728	14.0028
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5240.0221	5240	0.0221	4.2185
		V max (V)	132	5240.0518	5240	0.0518	9.8945
		V min (V)	108	5240.0364	5240	0.0364	6.9463
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5240.0334	5240	0.0334	6.3785
		T (°C)	10	5240.0111	5240	0.0111	2.1245
		T (°C)	20	5240.0844	5240	0.0844	16.1092
		T (°C)	30	5240.0009	5240	0.0009	0.1700
		T (°C)	40	5240.0312	5240	0.0312	5.9490
Limits				±20ppm			
Result				Complies			

TX Frequency (5725-5850MHz)

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5745.0412	5745	0.0412	7.1661
		V max (V)	132	5745.0207	5745	0.0207	3.6058
		V min (V)	108	5745.0021	5745	0.0021	0.3679
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5745.0805	5745	0.0805	14.0093
		T (°C)	10	5745.0387	5745	0.0387	6.7417
		T (°C)	20	5745.0061	5745	0.0061	1.0657
		T (°C)	30	5745.0636	5745	0.0636	11.0786
		T (°C)	40	5745.0284	5745	0.0284	4.9436
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5785.0848	5785	0.0848	14.6667
		V max (V)	132	5785.0828	5785	0.0828	14.3203
		V min (V)	108	5785.0873	5785	0.0873	15.0937
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5785.0748	5785	0.0748	12.9360
		T (°C)	10	5785.0025	5785	0.0025	0.4372
		T (°C)	20	5785.0814	5785	0.0814	14.0736
		T (°C)	30	5785.0340	5785	0.0340	5.8771
		T (°C)	40	5785.0405	5785	0.0405	6.9977
		T (°C)	50	5785.0884	5785	0.0884	15.2823
Limits				±20ppm			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5825.0882	5825	0.0882	15.1478
		V max (V)	132	5825.0286	5825	0.0286	4.9096
		V min (V)	108	5825.0300	5825	0.0300	5.1468
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	0	5825.0228	5825	0.0228	3.9061
		T (°C)	10	5825.0116	5825	0.0116	1.9950
		T (°C)	20	5825.0671	5825	0.0671	11.5159
		T (°C)	30	5825.0635	5825	0.0635	10.9014
		T (°C)	40	5825.0111	5825	0.0111	1.8973
Limits				±20ppm			
Result				Complies			

13. OPERATION IN THE ABSENCE OF INFORMATION TO THE TRANSMIT

13.1 Requirement

15.407(c) requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signal ling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

13.2 Test Results

Operation in the absence of information to the transmit:

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission. (manufacturer declare)

14. ANTENNA REQUIREMENT

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

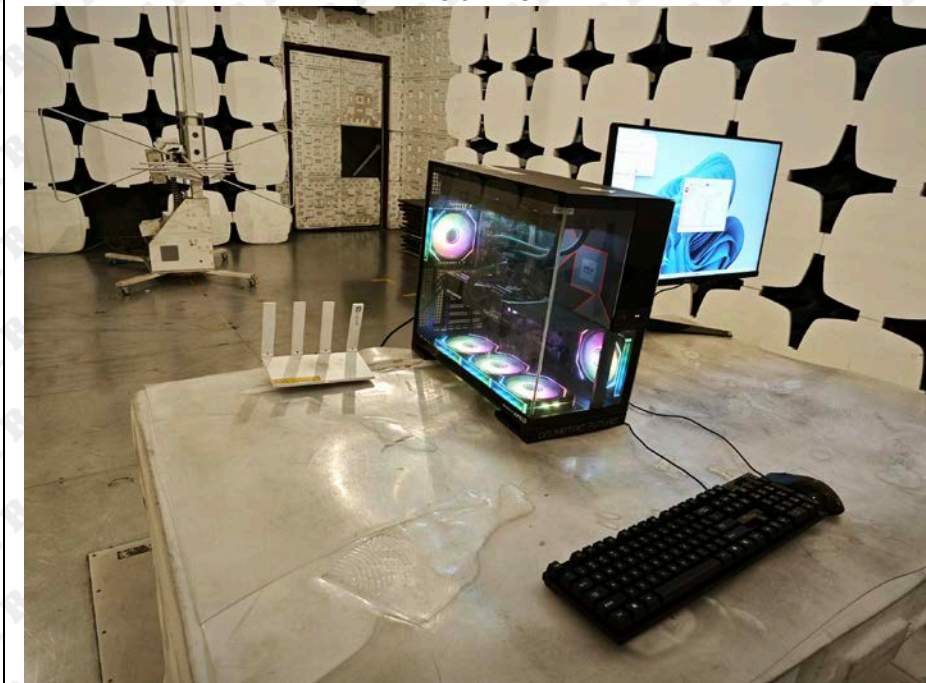
EUT Antenna:

The antenna is Internal antenna and no consideration of replacement. The best case gain of the antenna is WiFi (5.2G): Ant1: 3.31dBi, Ant2: 3.31dBi, WiFi (5.8G): Ant1: 3.99dBi, Ant2: 3.99dBi.

15. EUT TEST SETUP PHOTOGRAPHS

Radiated Emission

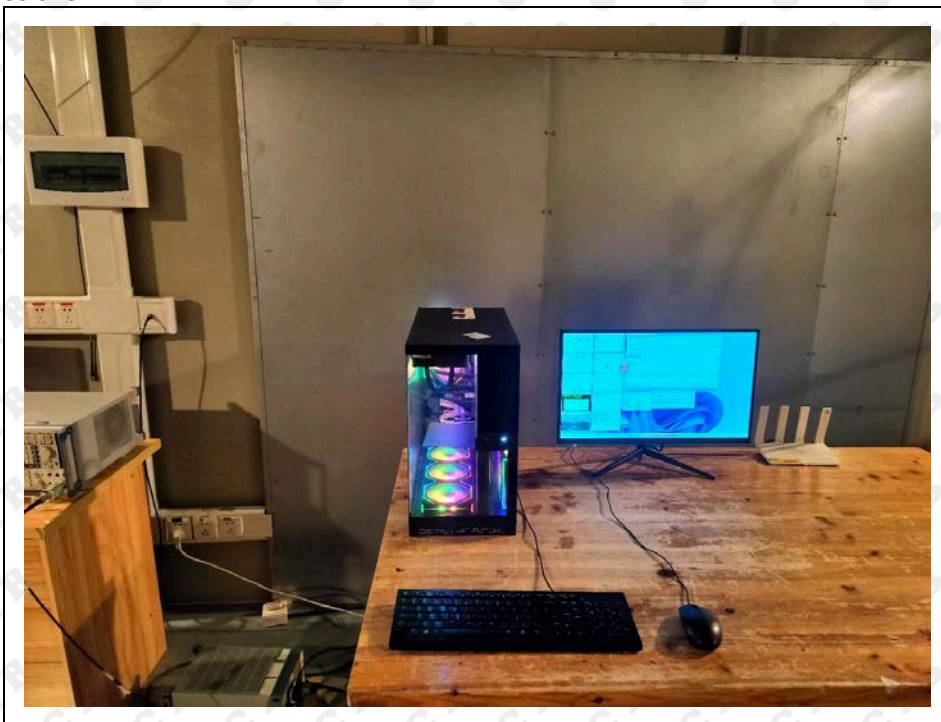
Below 1G



Above 1G



Conducted emissions



***** END OF REPORT *****