802.11ac(VH40)-5190

802.11ac(VH40)-5230

802.11ac(VH80)-5210

802.11n(HT20)-5180

802.11n(HT20)-5200

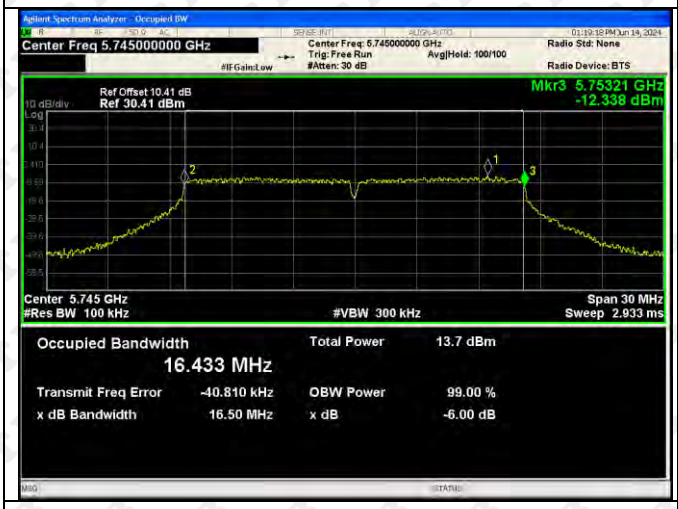
802.11n(HT20)-5240

802.11n(HT40)-5190

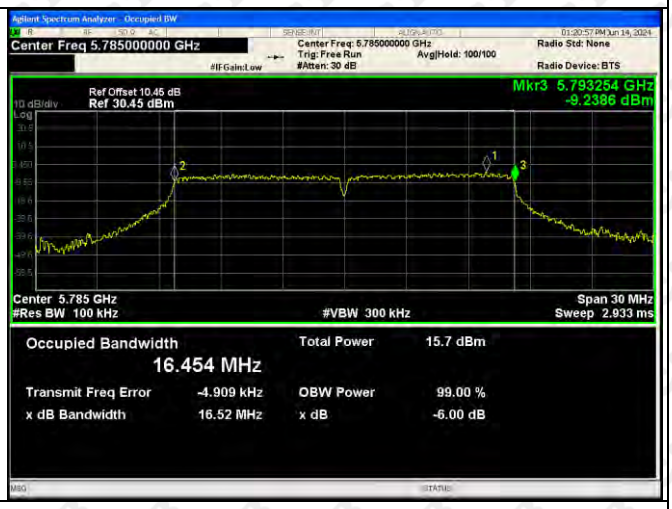
802.11n(HT40)-5230

5745-5825MHz
ANT 1:

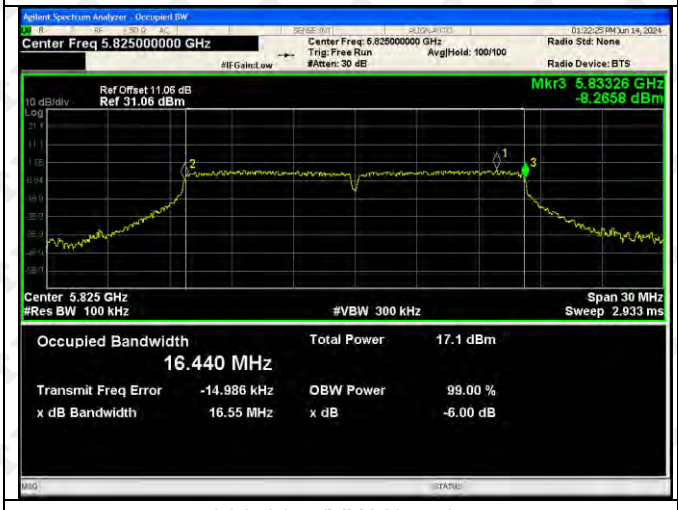
802.11a-5745



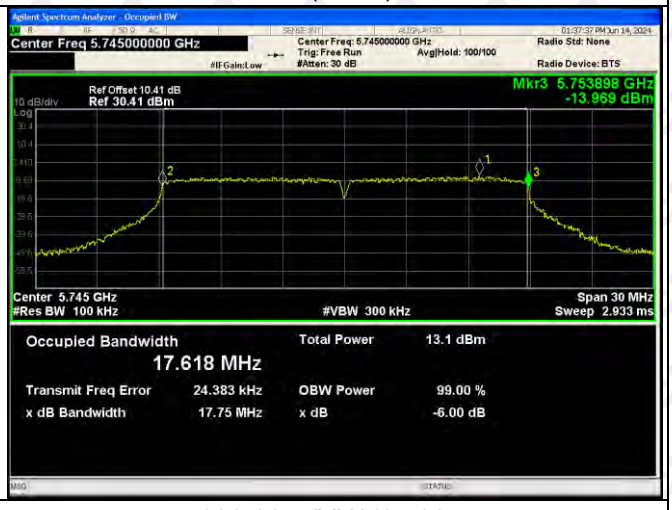
802.11a-5785



802.11a-5825



802.11ac(VH20)-5745

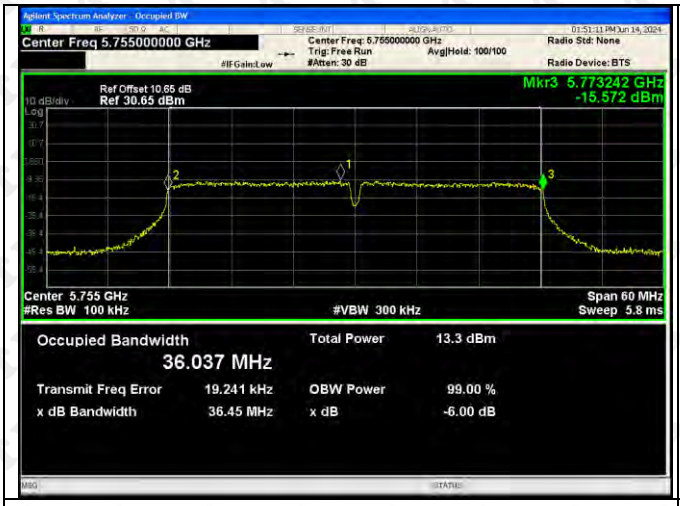


802.11ac(VH20)-5785

802.11ac(VH20)-5825

802.11ac(VH40)-5755

802.11ac(VH40)-5795



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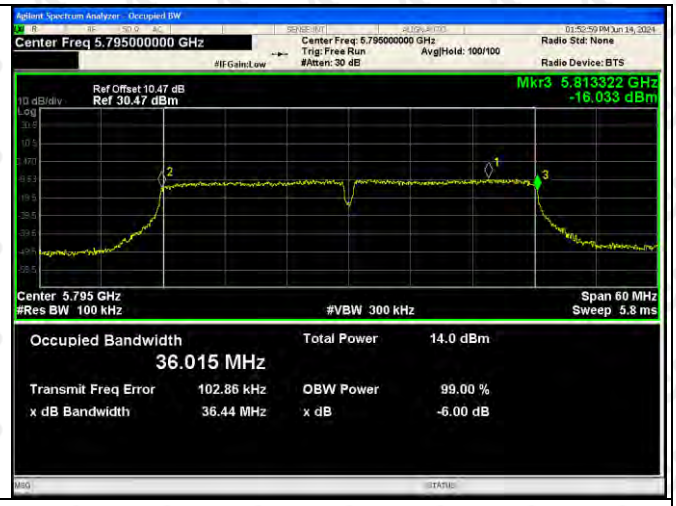

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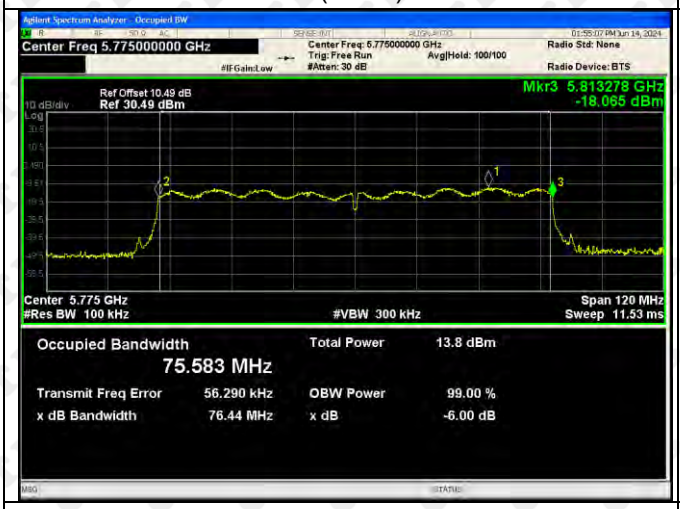

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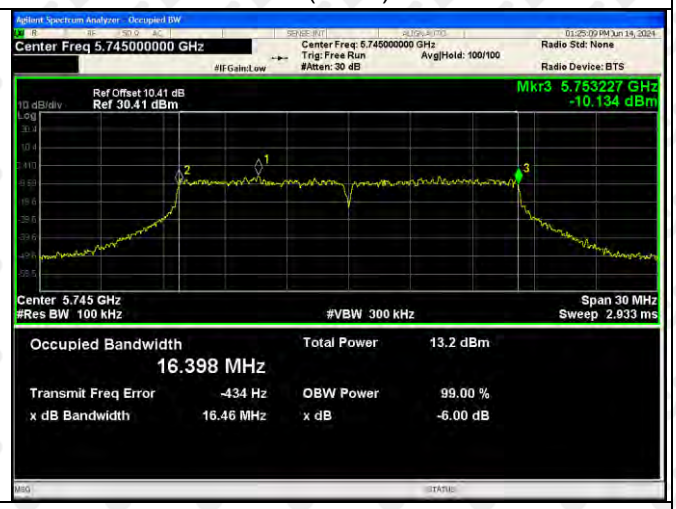

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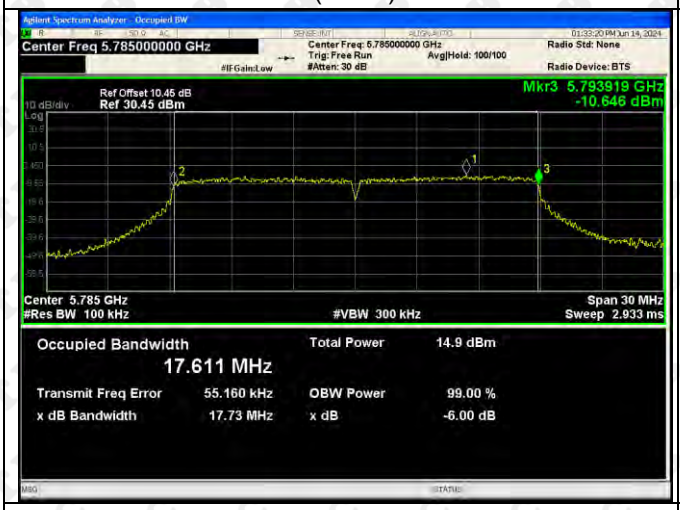
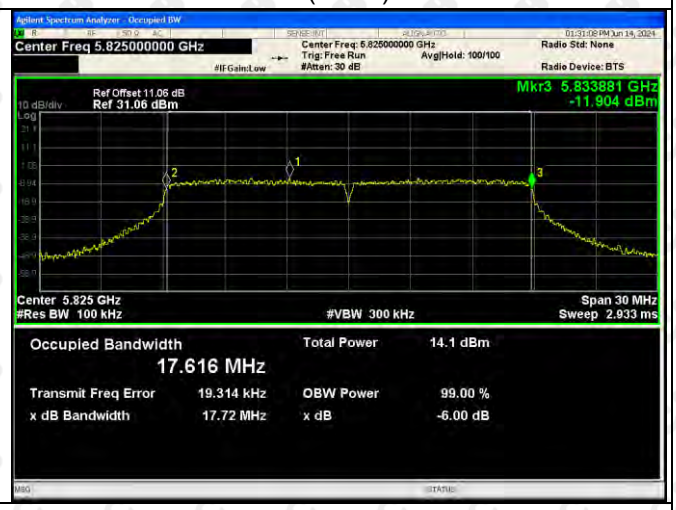
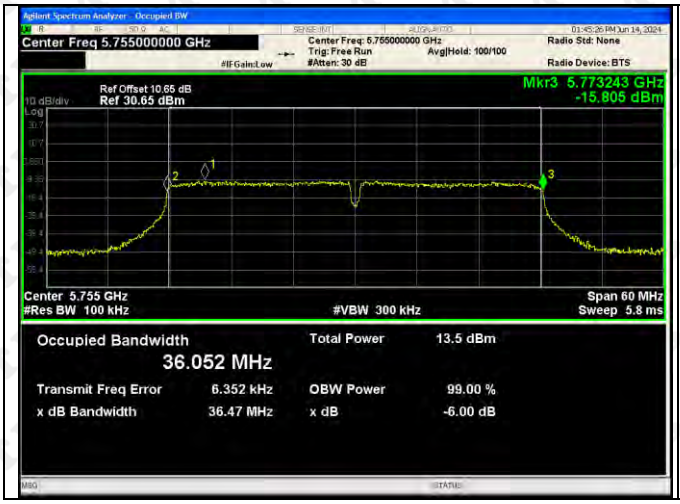
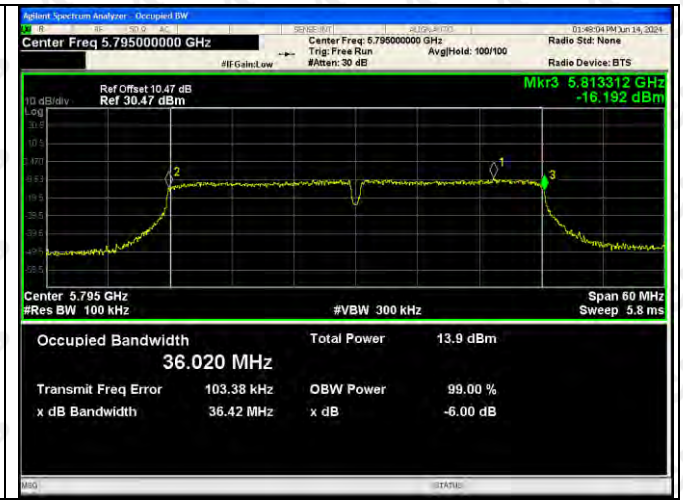


5802.11n(HT40)-5755

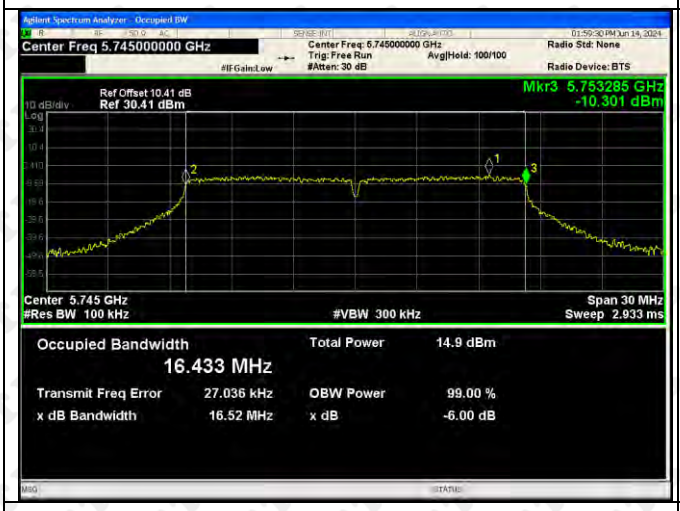
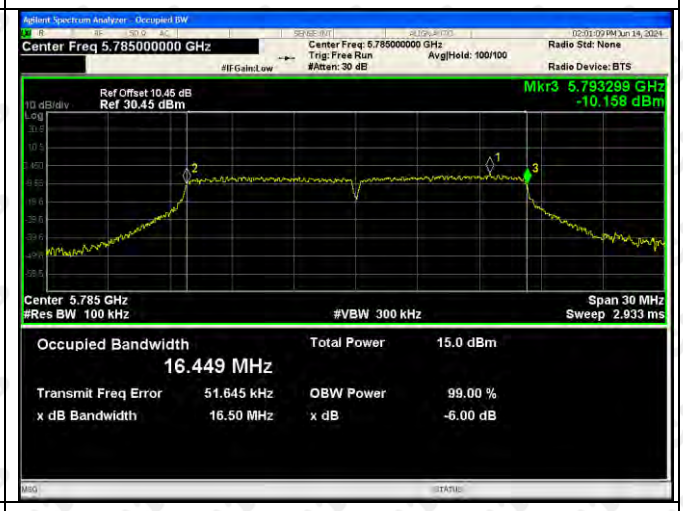
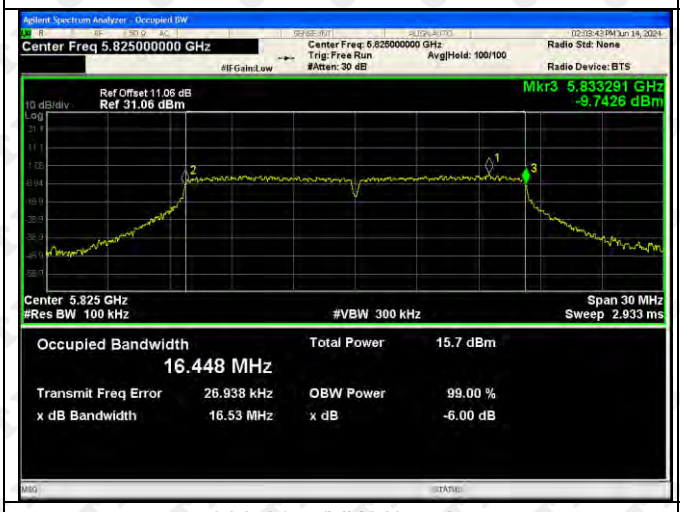
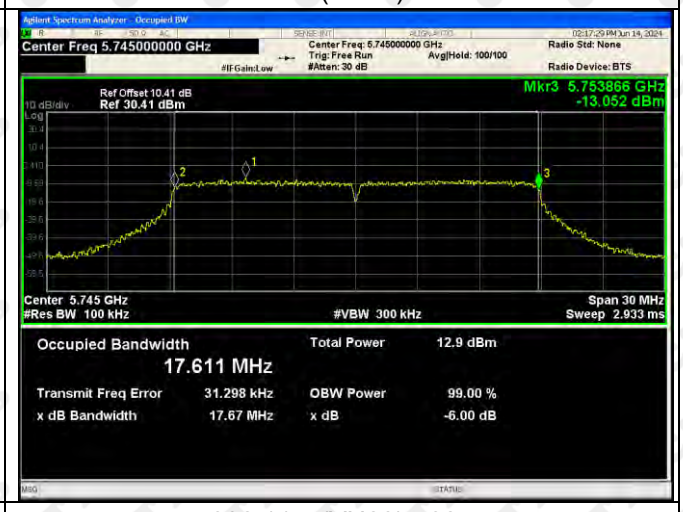


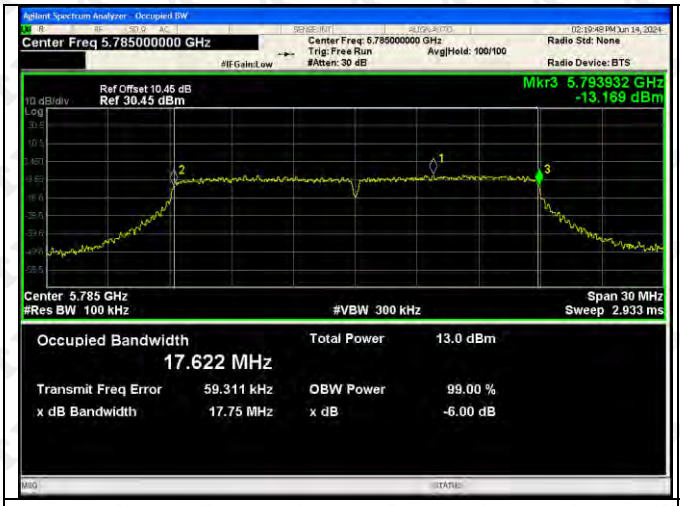
802.11n(HT40)-5795





ANT2:

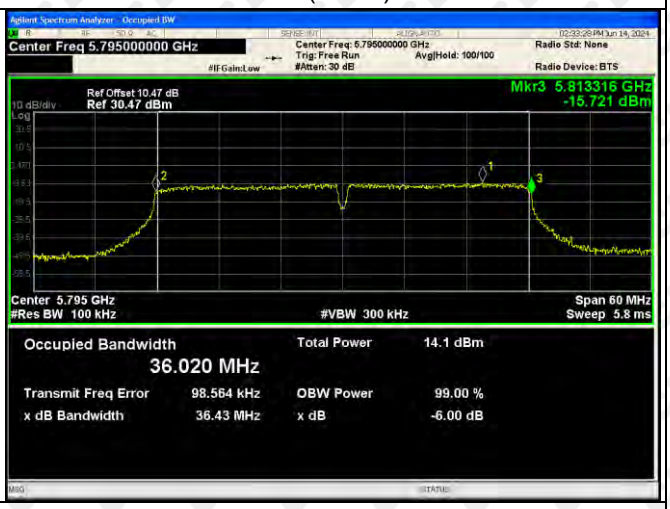
802.11a-5745	802.11a-5785
	
802.11a-5825	802.11ac(VH20)-5745
	
802.11ac(VH20)-5785	802.11ac(VH20)-5825



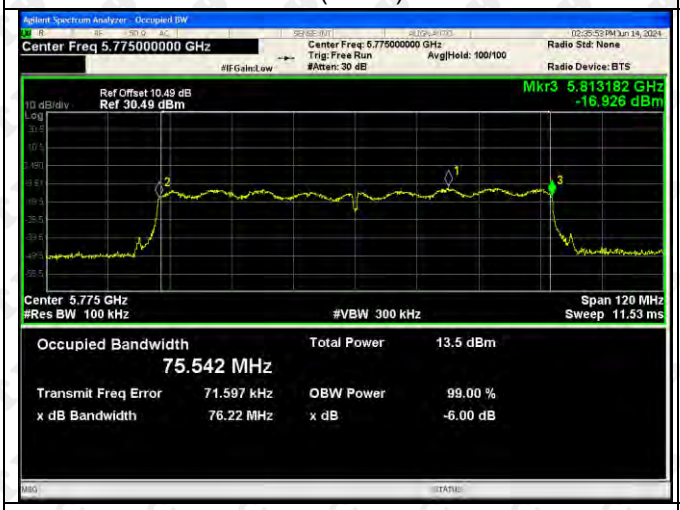
802.11ac(VH40)-5755

802.11ac(VH40)-5795

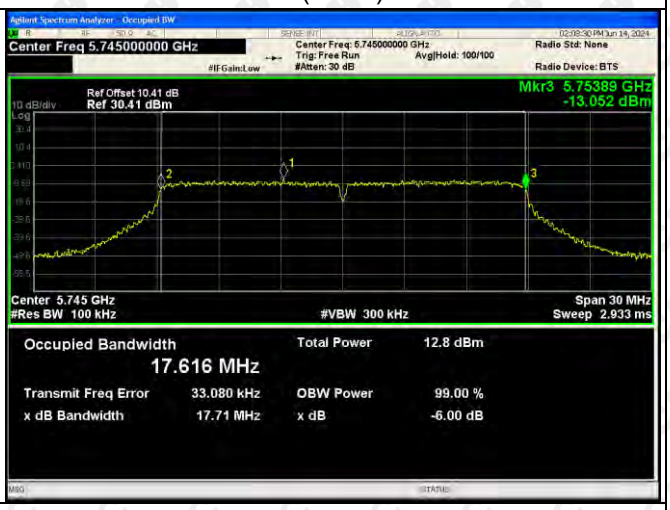
802.11ac(VH80)-5775



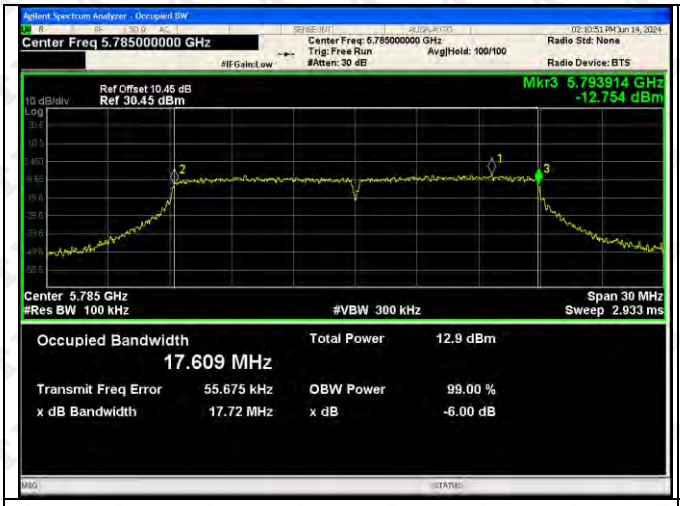
802.11n(HT20)-5745



802.11n(HT20)-5785

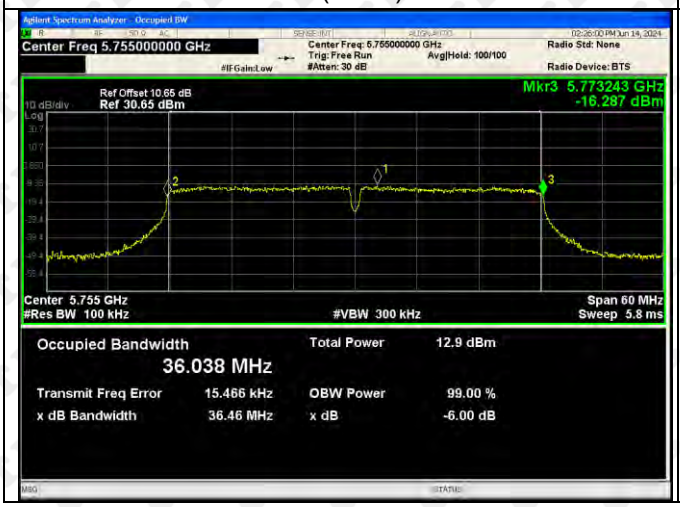


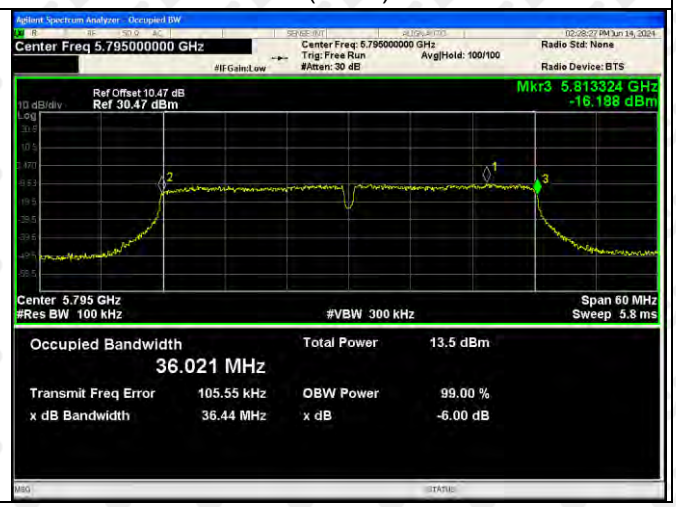
802.11n(HT20)-5825



5802.11n(HT40)-5755

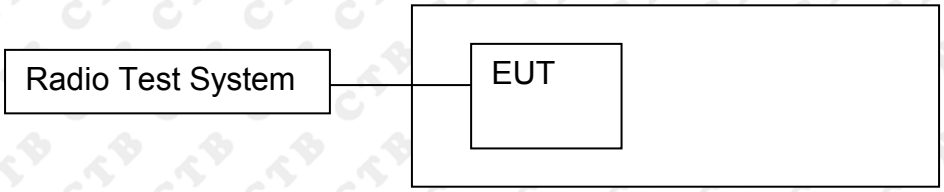
802.11n(HT40)-5795





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 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 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 kHz bandwidth, the following adjustments to the procedures apply:
a) Set RBW ≥ 1/*T*, where *T* is defined in II.B.I.a).

b) Set VBW ≥ 3 RBW.

c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/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 (1MHz/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

ANT 1+ANT2

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	-2.567	1.823	/	11	Pass
	5200	-2.777	0.765	/	11	Pass
	5240	-2.085	1.337	/	11	Pass
802.11ac(VH20)	5180	-3.610	0.634	2.021	11	Pass
	5200	-3.041	0.016	1.761	11	Pass
	5240	-2.410	1.035	2.656	11	Pass
802.11ac(VH40)	5190	-6.839	-2.374	-1.046	11	Pass
	5230	-5.911	-1.823	-0.392	11	Pass
802.11n(VH20)	5180	-8.300	-4.124	-2.718	11	Pass
	5200	-3.335	1.065	2.410	11	Pass
	5240	-3.113	0.844	2.312	11	Pass
802.11n(VH40)	5190	-2.539	1.263	2.776	11	Pass
	5230	-6.966	-2.251	-0.987	11	Pass
802.11ac(VH80)	5230	-5.841	-2.310	-0.716	11	Pass

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	-5.947	-4.616	/	30	Pass
	5785	-3.553	-4.289	/	30	Pass
	5825	-2.572	-3.678	/	30	Pass
802.11ac(VH20)	5745	-6.881	-6.930	-3.895	30	Pass
	5785	-6.427	-6.419	-3.413	30	Pass
	5825	-4.292	-4.241	-1.256	30	Pass
802.11ac(VH40)	5755	-9.595	-9.651	-6.613	30	Pass
	5795	-8.858	-8.861	-5.849	30	Pass
802.11n(VH20)	5775	-11.213	-11.679	-8.429	30	Pass
	5745	-6.918	-6.675	-3.785	30	Pass
	5785	-4.247	-6.392	-2.178	30	Pass
802.11n(VH40)	5825	-5.717	-4.492	-2.051	30	Pass
	5755	-9.538	-9.858	-6.685	30	Pass
802.11ac(VH80)	5795	-9.013	-9.325	-6.156	30	Pass

5180-5240MHz
ANT 1

802.11a-5180

802.11a-5200

802.11a-5240

802.11ac(VH20)-5180

802.11ac(VH20)-5200

802.11ac(VH20)-5240

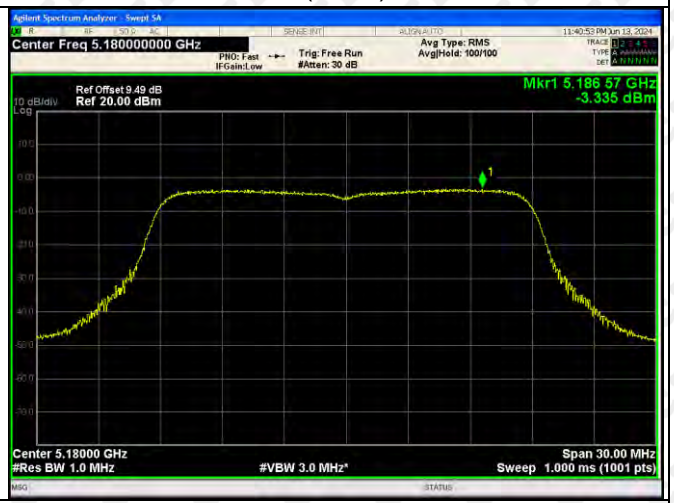
802.11ac(VH40)-5190

802.11ac(VH40)-5230

802.11ac(VH80)-5210

802.11n(HT20)-5180

802.11n(HT20)-5200



802.11n(HT20)-5240

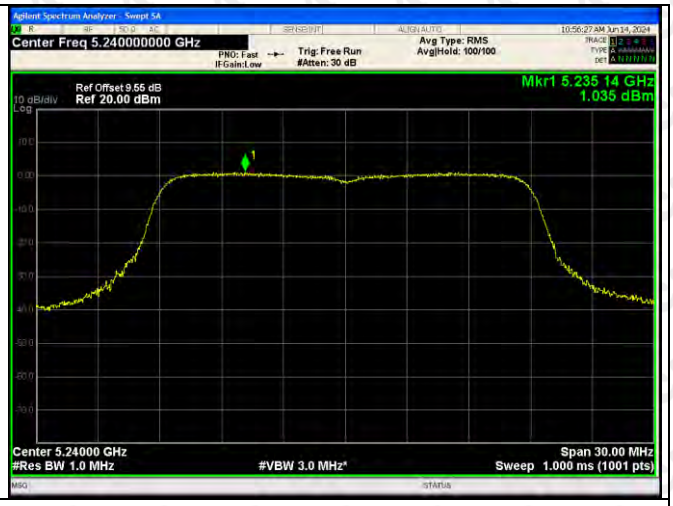
802.11n(HT40)-5190

802.11n(HT40)-5230

ANT2

802.11a-5180	802.11a-5200
	
802.11a-5240	802.11ac(VH20)-5180
	
802.11ac(VH20)-5200	802.11ac(VH20)-5240

802.11ac(VH40)-5190



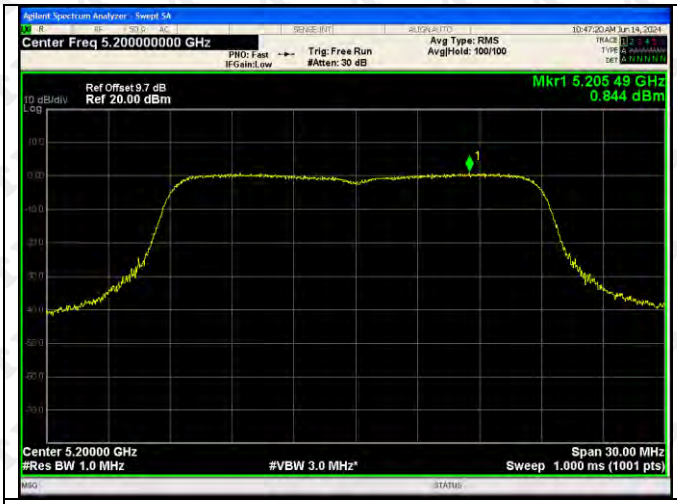
802.11ac(VH40)-5230

802.11ac(VH80)-5210

802.11n(HT20)-5180

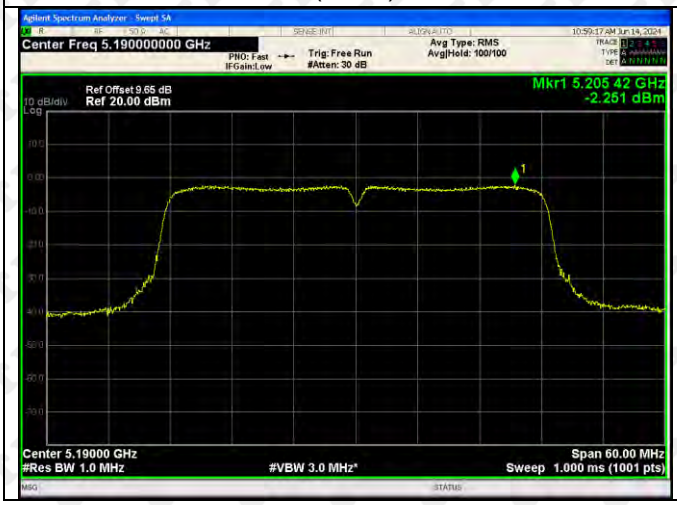
802.11n(HT20)-5200

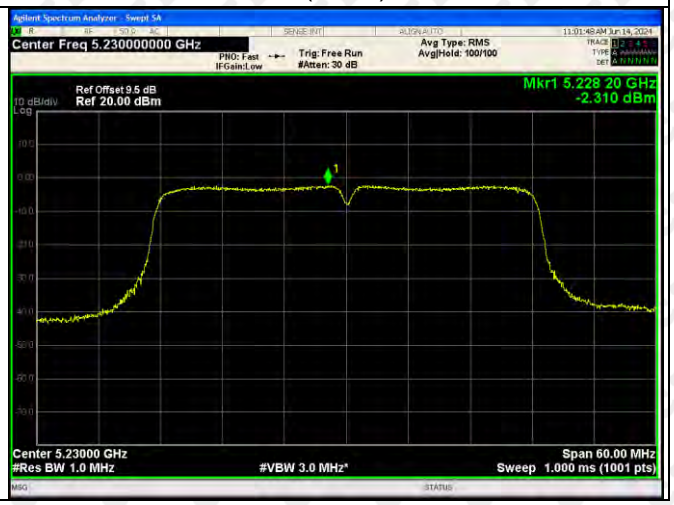
802.11n(HT20)-5240



802.11n(HT40)-5190

802.11n(HT40)-5230





5745-5825MHz
ANT 1:

802.11a-5745	802.11a-5785
	
802.11a-5825	802.11ac(VH20)-5745
	
802.11ac(VH20)-5785	802.11ac(VH20)-5825
	
802.11ac(VH40)-5755	802.11ac(VH40)-5795

802.11ac(VH80)-5775

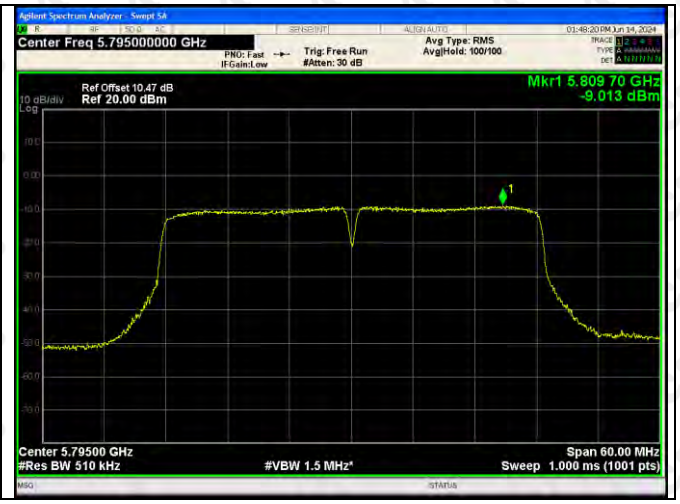
802.11n(HT20)-5745

802.11n(HT20)-5785

802.11n(HT20)-5825

5802.11n(HT40)-5755

802.11n(HT40)-5795



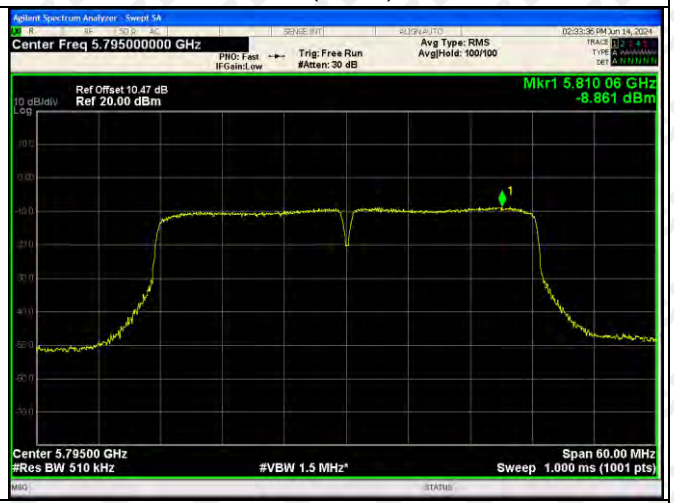
ANT2:

802.11a-5745	802.11a-5785
	
802.11a-5825	802.11ac(VH20)-5745
	
802.11ac(VH20)-5785	802.11ac(VH20)-5825

802.11ac(VH40)-5755

802.11ac(VH40)-5795

802.11ac(VH80)-5775



802.11n(HT20)-5745

802.11n(HT20)-5785

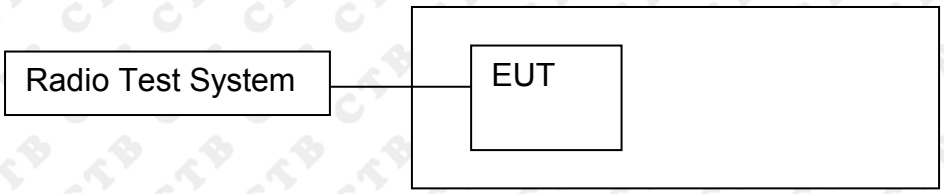
802.11n(HT20)-5825

5802.11n(HT40)-5755

802.11n(HT40)-5795

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

ANT1:

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)	12.00	5180.0892	5180	0.0892	17.2152
		V max (V)	13.20	5180.0863	5180	0.0863	16.6587
		V min (V)	10.80	5180.0550	5180	0.0550	10.6115
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	0	5180.0056	5180	0.0056	1.0778
		T (°C)	10	5180.0518	5180	0.0518	10.0027
		T (°C)	20	5180.0488	5180	0.0488	9.4171
		T (°C)	30	5180.0256	5180	0.0256	4.9330
		T (°C)	40	5180.0409	5180	0.0409	7.8910
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)	12.00	5200.0123	5200	0.0123	2.3636
		V max (V)	13.20	5200.0275	5200	0.0275	5.2963
		V min (V)	10.80	5200.0104	5200	0.0104	2.0012
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	0	5200.0119	5200	0.0119	2.2938
		T (°C)	10	5200.0032	5200	0.0032	0.6246
		T (°C)	20	5200.0043	5200	0.0043	0.8346
		T (°C)	30	5200.0430	5200	0.0430	8.2688
		T (°C)	40	5200.0258	5200	0.0258	4.9628
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)	12.00	5240.0213	5240	0.0213	4.0592
		V max (V)	13.20	5240.0514	5240	0.0514	9.8016
		V min (V)	10.80	5240.0400	5240	0.0400	7.6384
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	0	5240.0263	5240	0.0263	5.0249
		T (°C)	10	5240.0436	5240	0.0436	8.3173
		T (°C)	20	5240.0350	5240	0.0350	6.6815
		T (°C)	30	5240.0230	5240	0.0230	4.3948
		T (°C)	40	5240.0052	5240	0.0052	1.0010
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)	12.00	5180.0851	5180	0.0851	16.4362
		V max (V)	13.20	5180.0117	5180	0.0117	2.2568
		V min (V)	10.80	5180.0219	5180	0.0219	4.2336
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	0	5180.0428	5180	0.0428	8.2690
		T (°C)	10	5180.0933	5180	0.0933	18.0083
		T (°C)	20	5180.0804	5180	0.0804	15.5163
		T (°C)	30	5180.0466	5180	0.0466	8.9865
		T (°C)	40	5180.0752	5180	0.0752	14.5139
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)	12.00	5200.0414	5200	0.0414	7.9659
		V max (V)	13.20	5200.0611	5200	0.0611	11.7490
		V min (V)	10.80	5200.0430	5200	0.0430	8.2708
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	0	5200.0485	5200	0.0485	9.3174
		T (°C)	10	5200.0266	5200	0.0266	5.1154
		T (°C)	20	5200.0573	5200	0.0573	11.0282
		T (°C)	30	5200.0367	5200	0.0367	7.0648
		T (°C)	40	5200.0103	5200	0.0103	1.9903
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)	12.00	5240.0299	5240	0.0299	5.7149
		V max (V)	13.20	5240.0261	5240	0.0261	4.9752
		V min (V)	10.80	5240.0088	5240	0.0088	1.6792
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	0	5240.0638	5240	0.0638	12.1688
		T (°C)	10	5240.0273	5240	0.0273	5.2017
		T (°C)	20	5240.0775	5240	0.0775	14.7985
		T (°C)	30	5240.0256	5240	0.0256	4.8778
		T (°C)	40	5240.0566	5240	0.0566	10.8106
Limits				±20ppm			
Result				Complies			

ANT1:

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)	12.00	5745.0395	5745	0.0395	6.8687
		V max (V)	13.20	5745.0092	5745	0.0092	1.5935
		V min (V)	10.80	5745.0395	5745	0.0395	6.8687
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	0	5745.0115	5745	0.0115	2.0042
		T (°C)	10	5745.0470	5745	0.0470	8.1730
		T (°C)	20	5745.0092	5745	0.0092	1.5994
		T (°C)	30	5745.0142	5745	0.0142	2.4725
		T (°C)	40	5745.0110	5745	0.0110	1.9226
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)	12.00	5785.0393	5785	0.0393	6.7984
		V max (V)	13.20	5785.0596	5785	0.0596	10.3079
		V min (V)	10.80	5785.0471	5785	0.0471	8.1353
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	0	5785.0143	5785	0.0143	2.4706
		T (°C)	10	5785.0728	5785	0.0728	12.5862
		T (°C)	20	5785.0862	5785	0.0862	14.8938
		T (°C)	30	5785.0083	5785	0.0083	1.4360
		T (°C)	40	5785.0685	5785	0.0685	11.8415
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)	12.00	5825.0308	5825	0.0308	5.2854
		V max (V)	13.20	5825.0531	5825	0.0531	9.1087
		V min (V)	10.80	5825.0907	5825	0.0907	15.5644
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	0	5825.0384	5825	0.0384	6.5906
		T (°C)	10	5825.0003	5825	0.0003	0.0512
		T (°C)	20	5825.0902	5825	0.0902	15.4813
		T (°C)	30	5825.0476	5825	0.0476	8.1704
		T (°C)	40	5825.0211	5825	0.0211	3.6178
Limits				±20ppm			
Result				Complies			

ANT2:

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)	12.00	5745.0493	5745	0.0493	8.5837
		V max (V)	13.20	5745.0235	5745	0.0235	4.0875
		V min (V)	10.80	5745.0757	5745	0.0757	13.1741
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	0	5745.0082	5745	0.0082	1.4305
		T (°C)	10	5745.0772	5745	0.0772	13.4301
		T (°C)	20	5745.0522	5745	0.0522	9.0833
		T (°C)	30	5745.0624	5745	0.0624	10.8612
		T (°C)	40	5745.0423	5745	0.0423	7.3600
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)	12.00	5785.0202	5785	0.0202	3.4876
		V max (V)	13.20	5785.0218	5785	0.0218	3.7643
		V min (V)	10.80	5785.0607	5785	0.0607	10.4848
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	0	5785.0861	5785	0.0861	14.8880
		T (°C)	10	5785.0300	5785	0.0300	5.1848
		T (°C)	20	5785.0317	5785	0.0317	5.4867
		T (°C)	30	5785.0188	5785	0.0188	3.2479
		T (°C)	40	5785.0806	5785	0.0806	13.9376
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)	12.00	5825.0563	5825	0.0563	9.6610
		V max (V)	13.20	5825.0769	5825	0.0769	13.1984
		V min (V)	10.80	5825.0203	5825	0.0203	3.4883
Limits				±20ppm			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	12	T (°C)	0	5825.0602	5825	0.0602	10.3308
		T (°C)	10	5825.0486	5825	0.0486	8.3493
		T (°C)	20	5825.0305	5825	0.0305	5.2348
		T (°C)	30	5825.0830	5825	0.0830	14.2537
		T (°C)	40	5825.0441	5825	0.0441	7.5786
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.

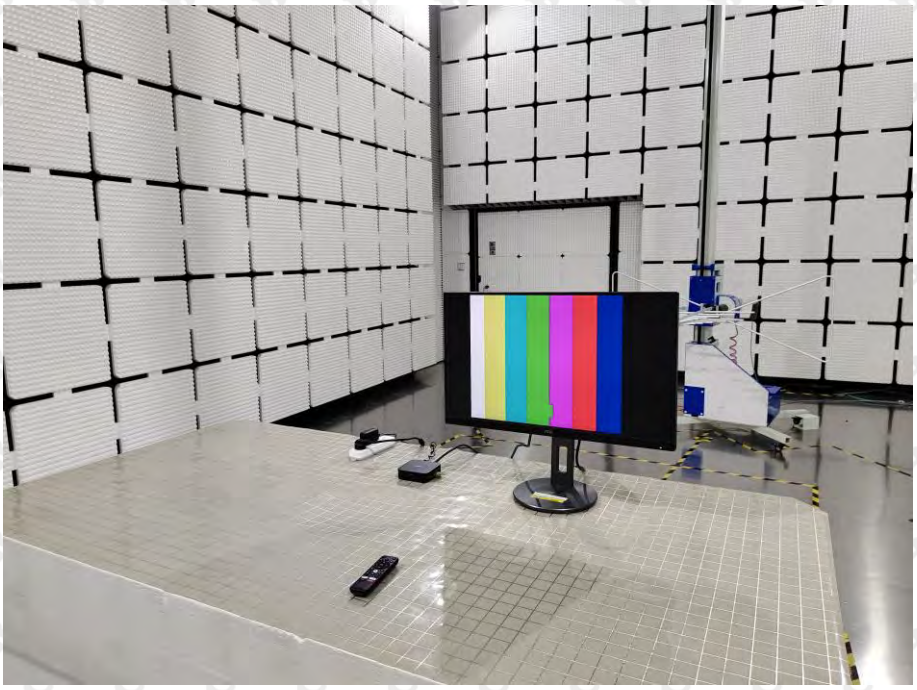
EUT Antenna:

The antenna is Internal antenna and no consideration of replacement. The best case gain of the antenna is WiFi (5.2G):Ant1: 4.47dBi, Ant2: 2.80dBi, WiFi (5.8G):Ant1: 3.63dBi, Ant2: 2.51dBi.

15. EUT TEST SETUP PHOTOGRAPHS

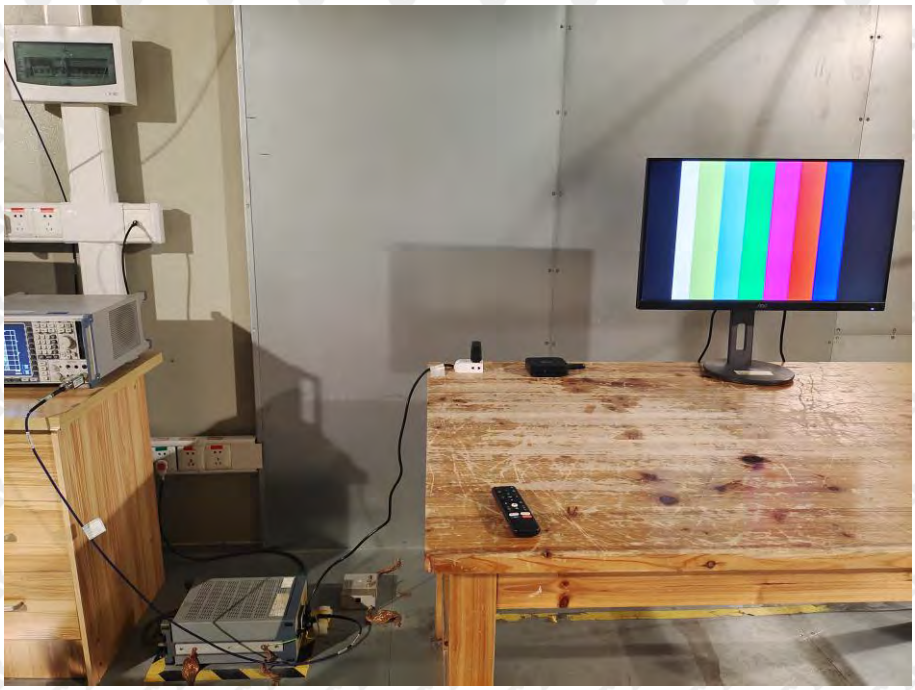
Spurious emissions

Below 1GHz



Above 1GHz

Conducted Emission



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