

Appendix H for 5.2G WIFI RF Test Data

Product Name: AX3000 Wi-Fi 6 Bluetooth 5.0 PCIe Adapter

Test Model: WE3000S

**Additional Model No.: WE3000, WE3500, WE3600, WE4000, WE3700,
WE3800, WE3900**

Environmental Conditions

Temperature:	22.8° C
Relative Humidity:	53.4%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

H.1 Centre Frequencies

ANT0

Test Conditions		Reference Frequency: 5180 MHz 802.11a		
Temperature (°C)	Voltage (V _{AC})	(F _H +F _L)/2 (MHz)	Frequency Deviation (ppm)	Limit (ppm)
0°C	AC 100V	5179.97	-5.79	±20
	AC 230V	5179.99	-1.93	
	AC 240V	5179.98	-3.86	
25°C	AC 100V	5179.99	-1.93	
	AC 230V	5179.96	-7.72	
	AC 240V	5180.00	0.00	
35°C	AC 100V	5180.01	1.93	
	AC 230V	5180.01	1.93	
	AC 240V	5180.00	0.00	

Test Conditions		Reference Frequency: 5180 MHz 802.11n(20MHz)		
Temperature (°C)	Voltage (V _{AC})	(F _H +F _L)/2 (MHz)	Frequency Deviation (ppm)	Limit (ppm)
0°C	AC 100V	5179.96	-7.72	±20
	AC 230V	5179.98	-3.86	
	AC 240V	5179.96	-7.72	
25°C	AC 100V	5180.00	0.00	
	AC 230V	5179.96	-7.72	
	AC 240V	5180.00	0.00	
35°C	AC 100V	5180.03	5.79	
	AC 230V	5179.99	-1.93	
	AC 240V	5180.00	0.00	

Test Conditions		Reference Frequency: 5180 MHz 802.11ac(20MHz)		
Temperature (°C)	Voltage (V _{AC})	(F _H +F _L)/2 (MHz)	Frequency Deviation (ppm)	Limit (ppm)
0°C	AC 100V	5180.01	1.93	±20
	AC 230V	5179.99	-1.93	
	AC 240V	5179.97	-5.79	
25°C	AC 100V	5179.98	-3.86	
	AC 230V	5180.04	7.72	
	AC 240V	5180.00	0.00	
35°C	AC 100V	5180.04	7.72	
	AC 230V	5180.01	1.93	
	AC 240V	5179.99	-1.93	

Test Conditions		Reference Frequency: 5180 MHz 802.11ax(20MHz)		
Temperature (°C)	Voltage (V _{AC})	(F _H +F _L)/2 (MHz)	Frequency Deviation (ppm)	Limit (ppm)
0°C	AC 100V	5180.03	5.79	±20
	AC 230V	5180.02	3.86	
	AC 240V	5180.00	0.00	
25°C	AC 100V	5180.04	7.72	
	AC 230V	5179.98	-3.86	
	AC 240V	5179.96	-7.72	
35°C	AC 100V	5180.02	3.86	
	AC 230V	5180.02	3.86	
	AC 240V	5180.01	1.93	

Test Conditions		Reference Frequency: 5190 MHz 802.11n(40MHz)		
Temperature (°C)	Voltage (V _{AC})	(F _H +F _L)/2 (MHz)	Frequency Deviation (ppm)	Limit (ppm)
0°C	AC 100V	5190.03	5.78	±20
	AC 230V	5189.96	-7.71	
	AC 240V	5190.03	5.78	
25°C	AC 100V	5190.00	0.00	
	AC 230V	5190.02	3.85	
	AC 240V	5189.97	-5.78	
35°C	AC 100V	5189.98	-3.85	
	AC 230V	5190.01	1.93	
	AC 240V	5190.04	7.71	

Test Conditions		Reference Frequency: 5190 MHz 802.11ac(40MHz)		
Temperature (°C)	Voltage (V _{AC})	(F _H +F _L)/2 (MHz)	Frequency Deviation (ppm)	Limit (ppm)
0°C	AC 100V	5190.04	7.71	±20
	AC 230V	5190.02	3.85	
	AC 240V	5190.04	7.71	
25°C	AC 100V	5189.97	-5.78	
	AC 230V	5189.96	-7.71	
	AC 240V	5190.04	7.71	
35°C	AC 100V	5189.97	-5.78	
	AC 230V	5189.99	-1.93	
	AC 240V	5189.96	-7.71	

Test Conditions		Reference Frequency: 5190 MHz 802.11ax(40MHz)		
Temperature (°C)	Voltage (V _{AC})	(F _H +F _L)/2 (MHz)	Frequency Deviation (ppm)	Limit (ppm)
0°C	AC 100V	5190.00	0.00	±20
	AC 230V	5190.03	5.78	
	AC 240V	5189.96	-7.71	
25°C	AC 100V	5190.02	3.85	
	AC 230V	5190.00	0.00	
	AC 240V	5189.97	-5.78	
35°C	AC 100V	5190.04	7.71	
	AC 230V	5189.96	-7.71	
	AC 240V	5189.96	-7.71	

Test Conditions		Reference Frequency: 5210 MHz 802.11ac(80MHz)		
Temperature (°C)	Voltage (V _{AC})	(F _H +F _L)/2 (MHz)	Frequency Deviation (ppm)	Limit (ppm)
0°C	AC 100V	5210.04	7.68	±20
	AC 230V	5209.99	-1.92	
	AC 240V	5210.00	0.00	
25°C	AC 100V	5210.04	7.68	
	AC 230V	5209.96	-7.68	
	AC 240V	5210.04	7.68	
35°C	AC 100V	5209.98	-3.84	
	AC 230V	5209.97	-5.76	
	AC 240V	5210.02	3.84	

Test Conditions		Reference Frequency: 5210 MHz 802.11ax(80MHz)		
Temperature (°C)	Voltage (V _{AC})	(F _H +F _L)/2 (MHz)	Frequency Deviation (ppm)	Limit (ppm)
0°C	AC 100V	5209.97	-5.76	±20
	AC 230V	5210.02	3.84	
	AC 240V	5210.03	5.76	
25°C	AC 100V	5210.00	0.00	
	AC 230V	5210.03	5.76	
	AC 240V	5210.03	5.76	
35°C	AC 100V	5209.99	-1.92	
	AC 230V	5210.00	0.00	
	AC 240V	5210.02	3.84	

ANT1

Test Conditions		Reference Frequency: 5180 MHz 802.11a		
Temperature (°C)	Voltage (V _{AC})	(F _H +F _L)/2 (MHz)	Frequency Deviation (ppm)	Limit (ppm)
0°C	AC 100V	5180.02	3.86	±20
	AC 230V	5180.01	1.93	
	AC 240V	5179.97	-5.79	
25°C	AC 100V	5180.03	5.79	
	AC 230V	5179.99	-1.93	
	AC 240V	5180.02	3.86	
35°C	AC 100V	5179.96	-7.72	
	AC 230V	5180.02	3.86	
	AC 240V	5179.99	-1.93	

Test Conditions		Reference Frequency: 5180 MHz 802.11n(20MHz)		
Temperature (°C)	Voltage (V _{AC})	(F _H +F _L)/2 (MHz)	Frequency Deviation (ppm)	Limit (ppm)
0°C	AC 100V	5179.96	-7.72	±20
	AC 230V	5180.04	7.72	
	AC 240V	5180.02	3.86	
25°C	AC 100V	5179.96	-7.72	
	AC 230V	5180.00	0.00	
	AC 240V	5180.01	1.93	
35°C	AC 100V	5179.97	-5.79	
	AC 230V	5180.00	0.00	
	AC 240V	5180.03	5.79	

Test Conditions		Reference Frequency: 5180 MHz 802.11ac(20MHz)		
Temperature (°C)	Voltage (V _{AC})	(F _H +F _L)/2 (MHz)	Frequency Deviation (ppm)	Limit (ppm)
0°C	AC 100V	5179.99	-1.93	±20
	AC 230V	5179.96	-7.72	
	AC 240V	5179.96	-7.72	
25°C	AC 100V	5180.02	3.86	
	AC 230V	5180.03	5.79	
	AC 240V	5180.02	3.86	
35°C	AC 100V	5180.03	5.79	
	AC 230V	5179.97	-5.79	
	AC 240V	5179.99	-1.93	

Test Conditions		Reference Frequency: 5180 MHz 802.11ax(20MHz)		
Temperature (°C)	Voltage (V _{AC})	(F _H +F _L)/2 (MHz)	Frequency Deviation (ppm)	Limit (ppm)
0°C	AC 100V	5180.02	3.86	±20
	AC 230V	5179.96	-7.72	
	AC 240V	5180.01	1.93	
25°C	AC 100V	5180.01	1.93	
	AC 230V	5180.01	1.93	
	AC 240V	5180.00	0.00	
35°C	AC 100V	5180.02	3.86	
	AC 230V	5179.99	-1.93	
	AC 240V	5180.00	0.00	

Test Conditions		Reference Frequency: 5190 MHz 802.11n(40MHz)		
Temperature (°C)	Voltage (V _{AC})	(F _H +F _L)/2 (MHz)	Frequency Deviation (ppm)	Limit (ppm)
0°C	AC 100V	5190.00	0.00	±20
	AC 230V	5190.03	5.78	
	AC 240V	5189.98	-3.85	
25°C	AC 100V	5189.99	-1.93	
	AC 230V	5189.96	-7.71	
	AC 240V	5189.98	-3.85	
35°C	AC 100V	5190.04	7.71	
	AC 230V	5190.04	7.71	
	AC 240V	5189.98	-3.85	

Test Conditions		Reference Frequency: 5190 MHz 802.11ac(40MHz)		
Temperature (°C)	Voltage (V _{AC})	(F _H +F _L)/2 (MHz)	Frequency Deviation (ppm)	Limit (ppm)
0°C	AC 100V	5189.96	-7.71	±20
	AC 230V	5190.01	1.93	
	AC 240V	5189.96	-7.71	
25°C	AC 100V	5190.01	1.93	
	AC 230V	5190.04	7.71	
	AC 240V	5190.04	7.71	
35°C	AC 100V	5190.01	1.93	
	AC 230V	5189.97	-5.78	
	AC 240V	5190.03	5.78	

Test Conditions		Reference Frequency: 5190 MHz 802.11ax(40MHz)		
Temperature (°C)	Voltage (V _{AC})	(F _H +F _L)/2 (MHz)	Frequency Deviation (ppm)	Limit (ppm)
0°C	AC 100V	5189.98	-3.85	±20
	AC 230V	5190.00	0.00	
	AC 240V	5190.00	0.00	
25°C	AC 100V	5190.00	0.00	
	AC 230V	5190.02	3.85	
	AC 240V	5190.02	3.85	
35°C	AC 100V	5190.00	0.00	
	AC 230V	5189.98	-3.85	
	AC 240V	5190.03	5.78	

Test Conditions		Reference Frequency: 5210 MHz 802.11ac(80MHz)		
Temperature (°C)	Voltage (V _{AC})	(F _H +F _L)/2 (MHz)	Frequency Deviation (ppm)	Limit (ppm)
0°C	AC 100V	5210.04	7.68	±20
	AC 230V	5210.01	1.92	
	AC 240V	5210.01	1.92	
25°C	AC 100V	5209.99	-1.92	
	AC 230V	5210.04	7.68	
	AC 240V	5210.02	3.84	
35°C	AC 100V	5209.96	-7.68	
	AC 230V	5210.02	3.84	
	AC 240V	5210.02	3.84	

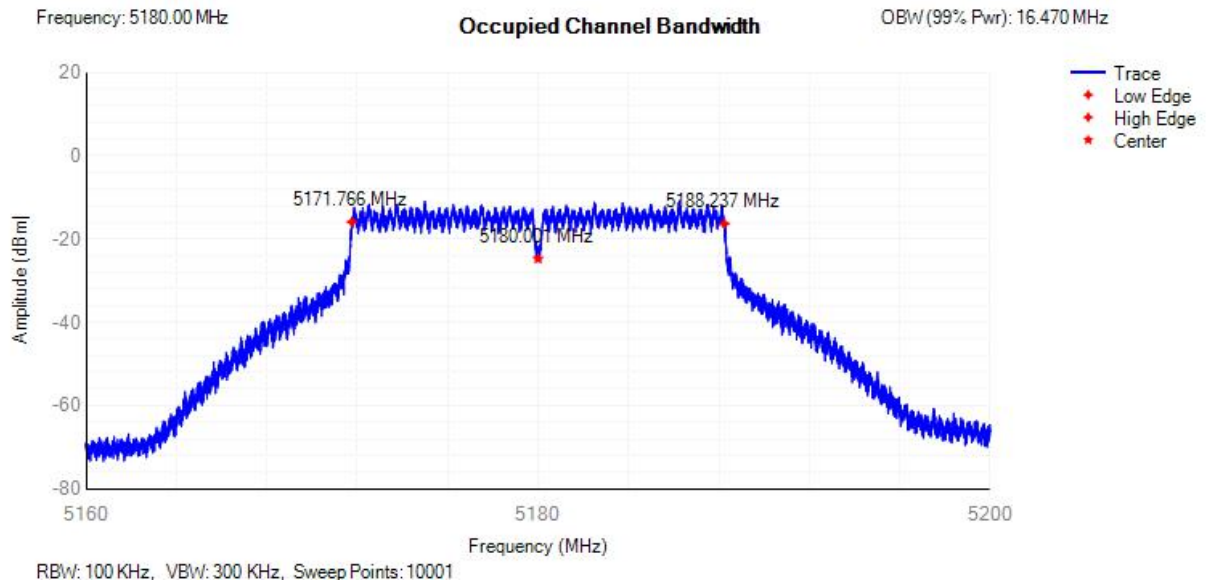
Test Conditions		Reference Frequency: 5210 MHz 802.11ax(80MHz)		
Temperature (°C)	Voltage (V _{AC})	(F _H +F _L)/2 (MHz)	Frequency Deviation (ppm)	Limit (ppm)
0°C	AC 100V	5209.97	-5.76	±20
	AC 230V	5210.04	7.68	
	AC 240V	5209.99	-1.92	
25°C	AC 100V	5210.04	7.68	
	AC 230V	5210.03	5.76	
	AC 240V	5210.03	5.76	
35°C	AC 100V	5210.01	1.92	
	AC 230V	5210.03	5.76	
	AC 240V	5209.96	-7.68	

H.2 Nominal Channel Bandwidth and Occupied Channel Bandwidth

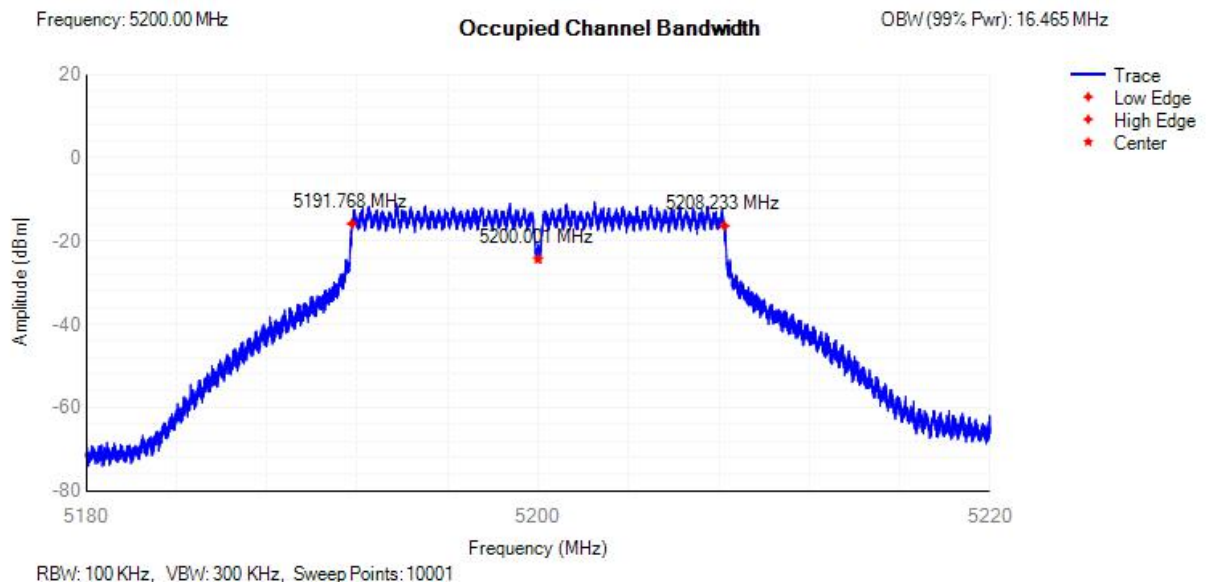
The Worst Case: ANT0

Condition	Mode	Frequency (MHz)	OBW (MHz)	Lower Limit (MHz)	Upper Limit(MHz)	Verdict
NVNT	a	5180	16.470	16	20	Pass
NVNT	a	5200	16.465	16	20	Pass
NVNT	a	5240	16.478	16	20	Pass
NVNT	n20	5180	18.942	16	20	Pass
NVNT	n20	5200	18.933	16	20	Pass
NVNT	n20	5240	18.954	16	20	Pass
NVNT	ac20	5180	17.684	16	20	Pass
NVNT	ac20	5200	17.675	16	20	Pass
NVNT	ac20	5240	17.679	16	20	Pass
NVNT	n40	5190	37.725	32	40	Pass
NVNT	n40	5230	37.750	32	40	Pass
NVNT	ac40	5190	36.258	32	40	Pass
NVNT	ac40	5230	36.253	32	40	Pass
NVNT	ac80	5210	75.165	64	80	Pass
NVNT	ax20	5180	18.973	16	20	Pass
NVNT	ax20	5200	18.956	16	20	Pass
NVNT	ax20	5240	18.959	16	20	Pass
NVNT	ax40	5190	37.96	32	40	Pass
NVNT	ax40	5230	37.758	32	40	Pass
NVNT	ax80	5210	76.639	64	80	Pass

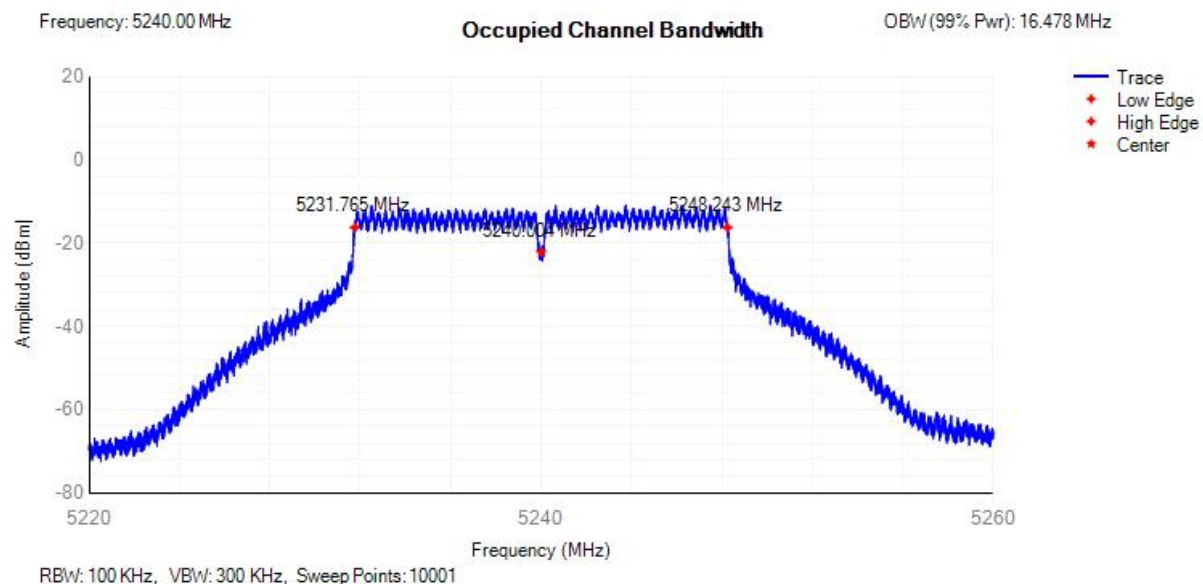
OBW NVNT a 5180MHz



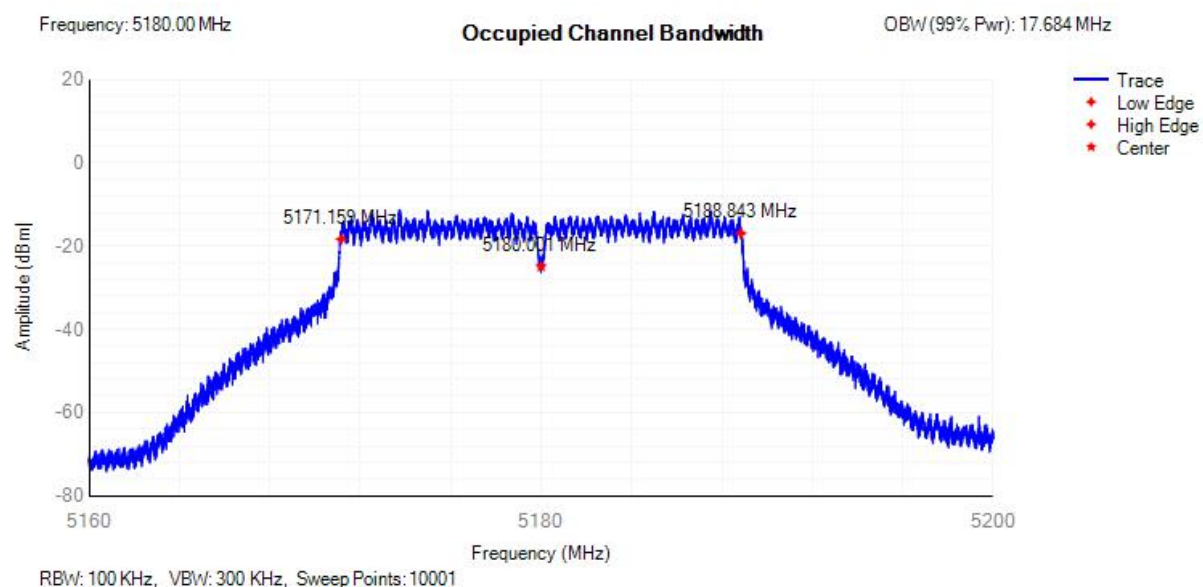
OBW NVNT a 5200MHz



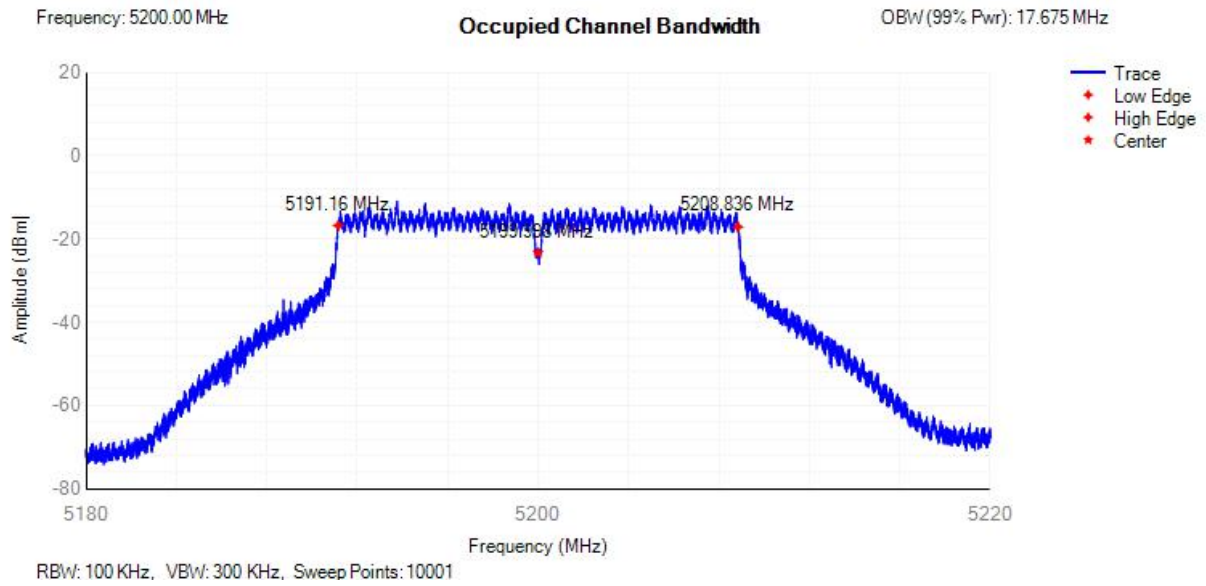
OBW NVNT a 5240MHz



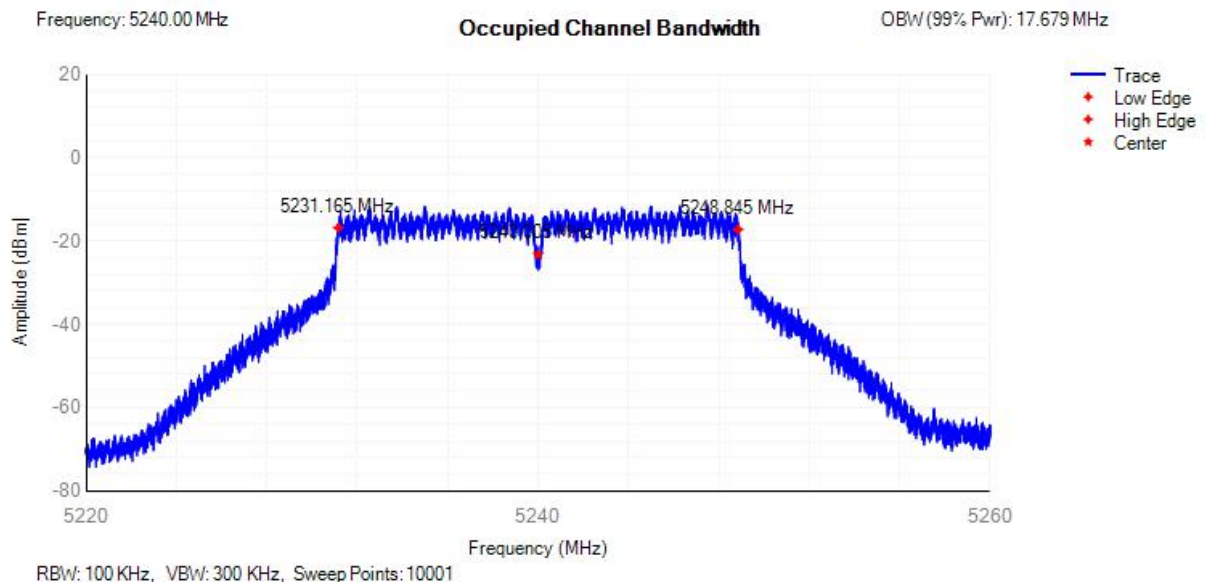
OBW NVNT ac20 5180MHz



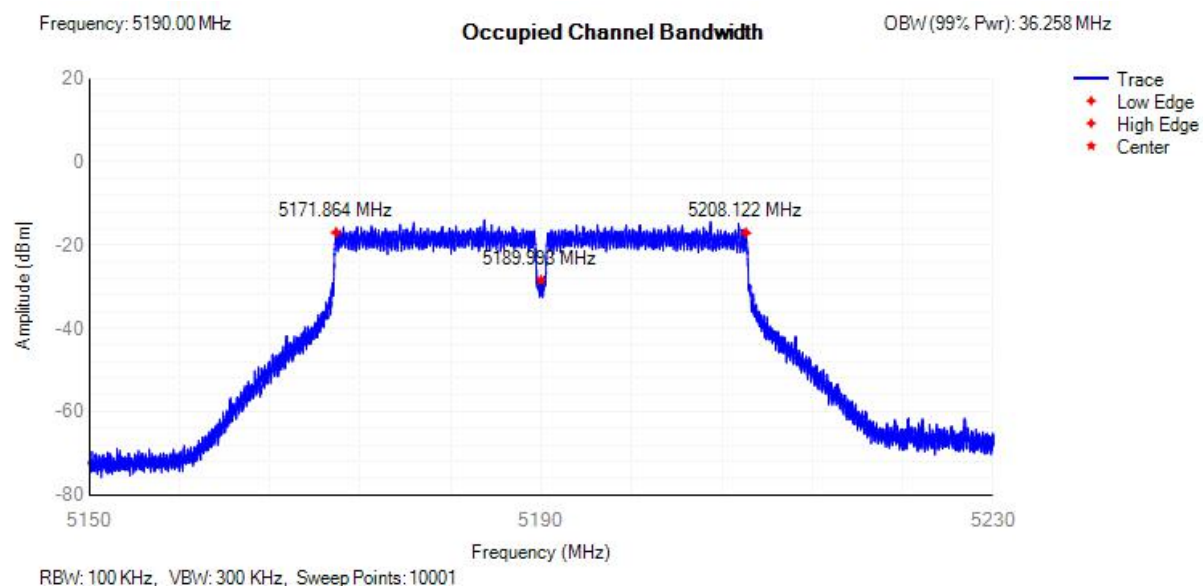
OBW NVNT ac20 5200MHz



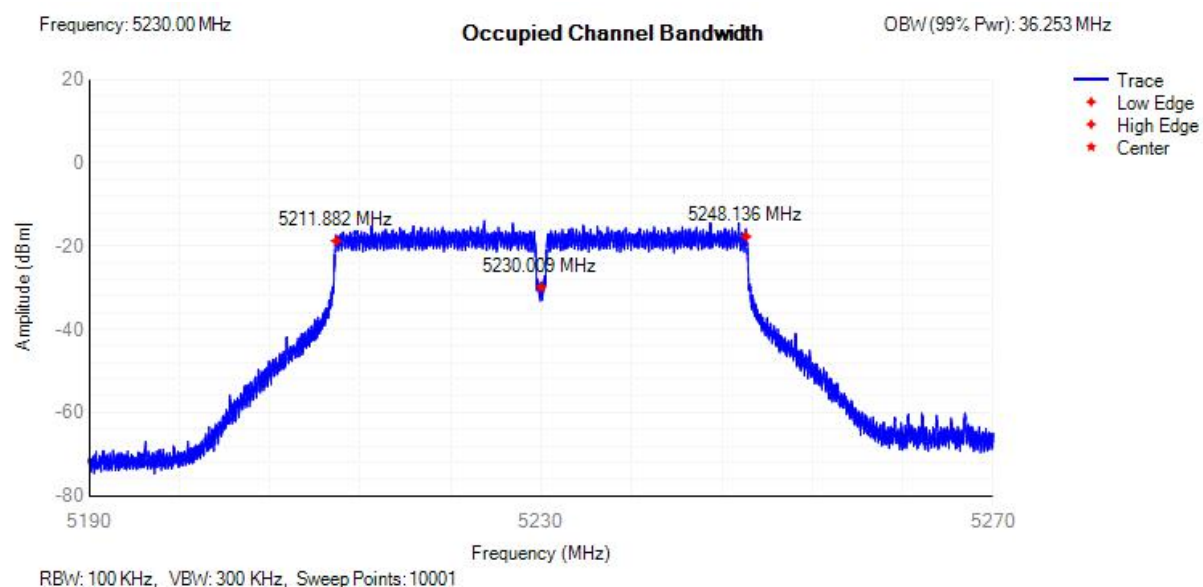
OBW NVNT ac20 5240MHz



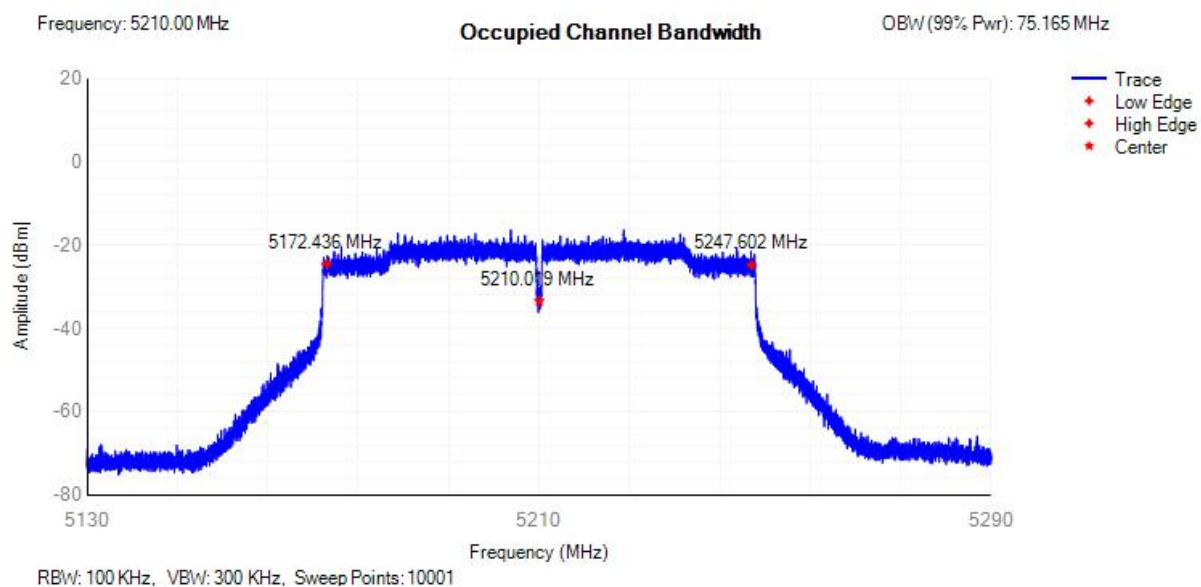
OBW NVNT ac40 5190MHz



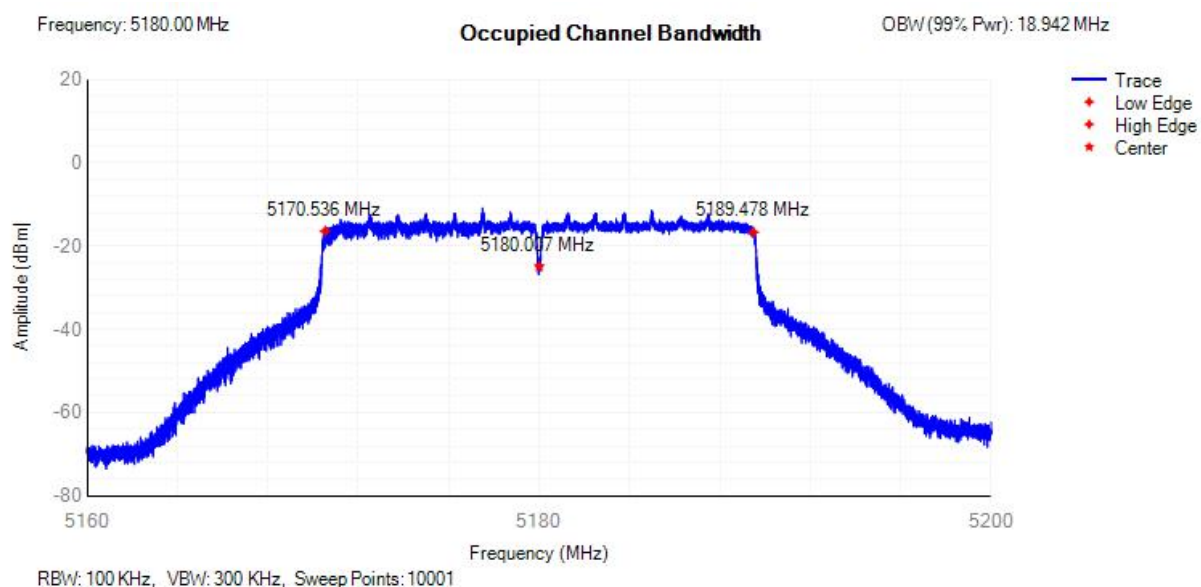
OBW NVNT ac40 5230MHz



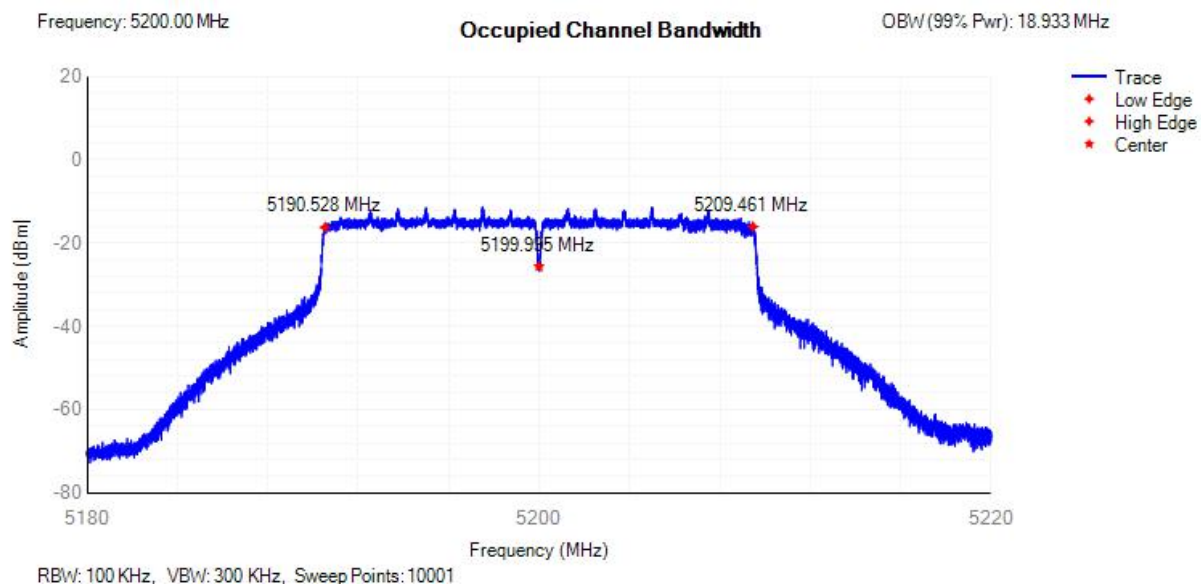
OBW NVNT ac80 5210MHz



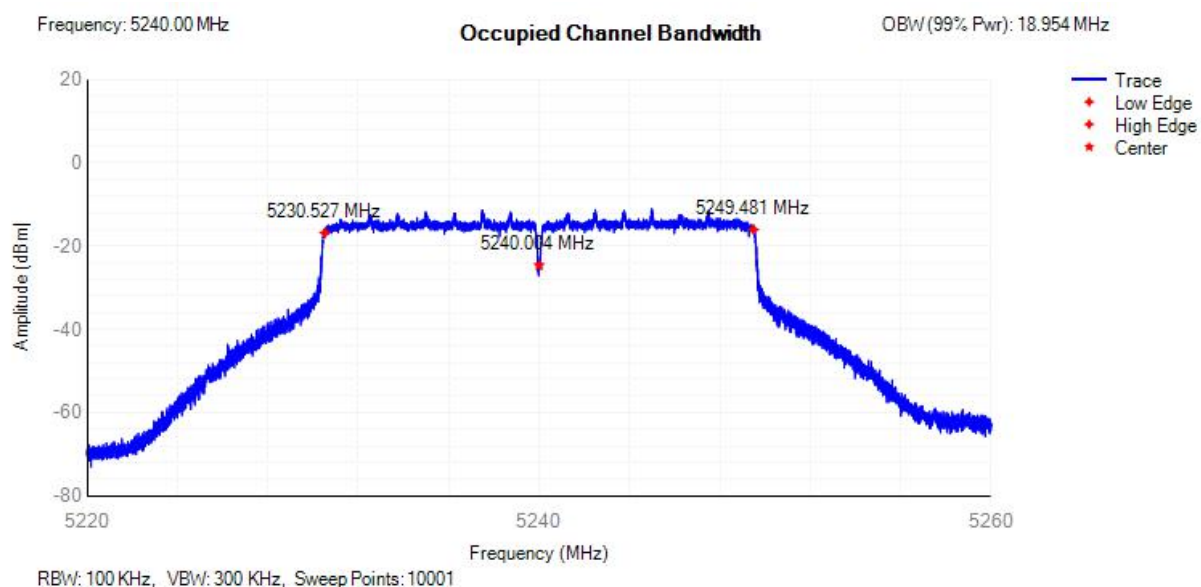
OBW NVNT n20 5180MHz



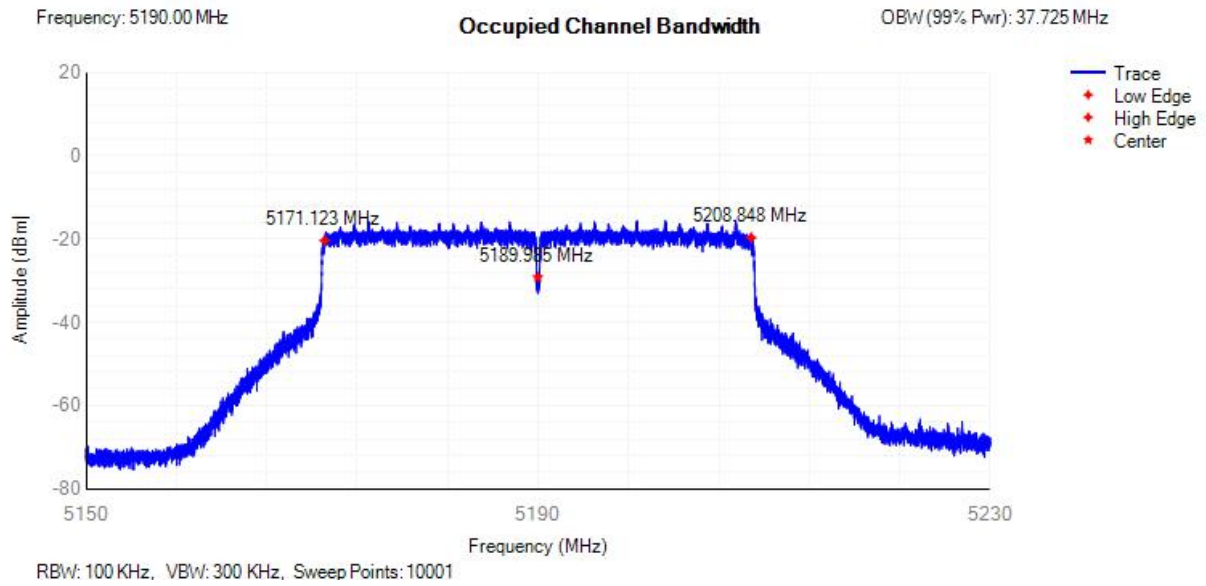
OBW NVNT n20 5200MHz



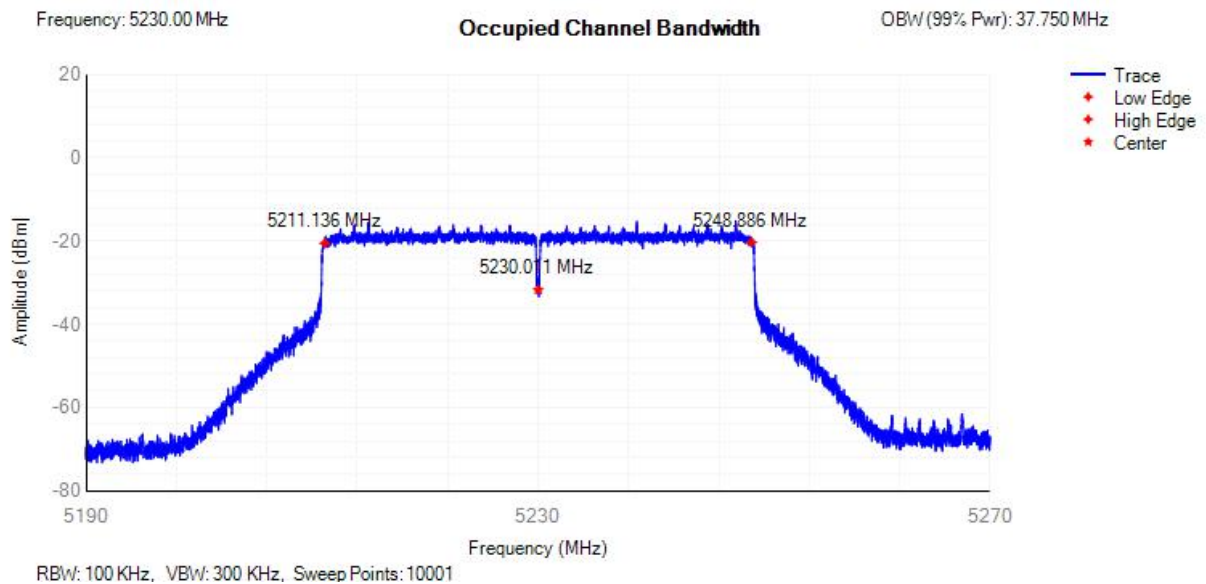
OBW NVNT n20 5240MHz



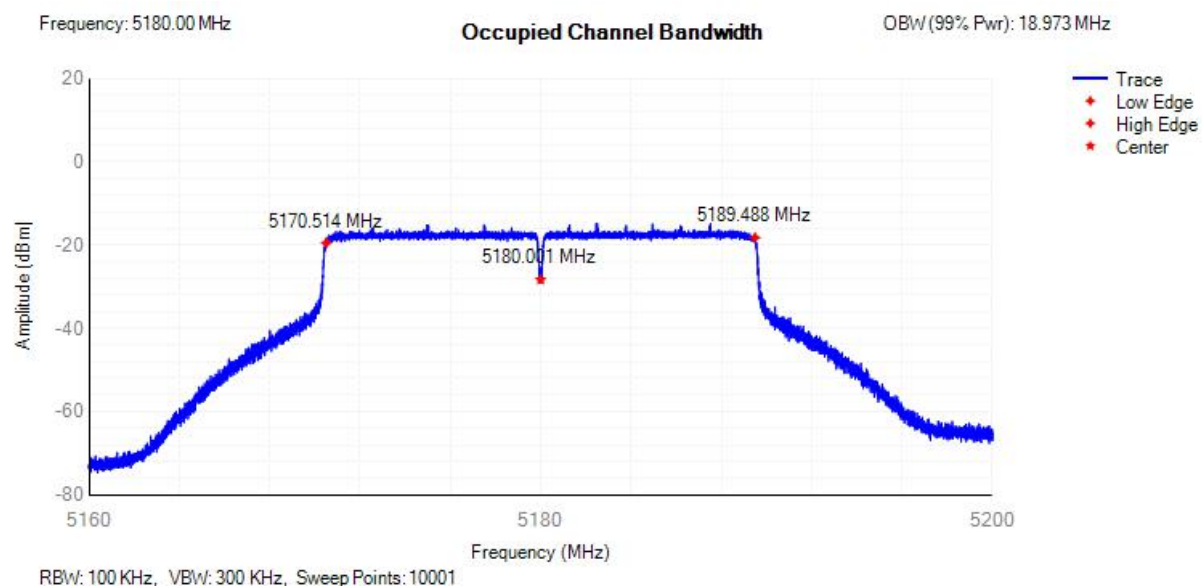
OBW NVNT n40 5190MHz



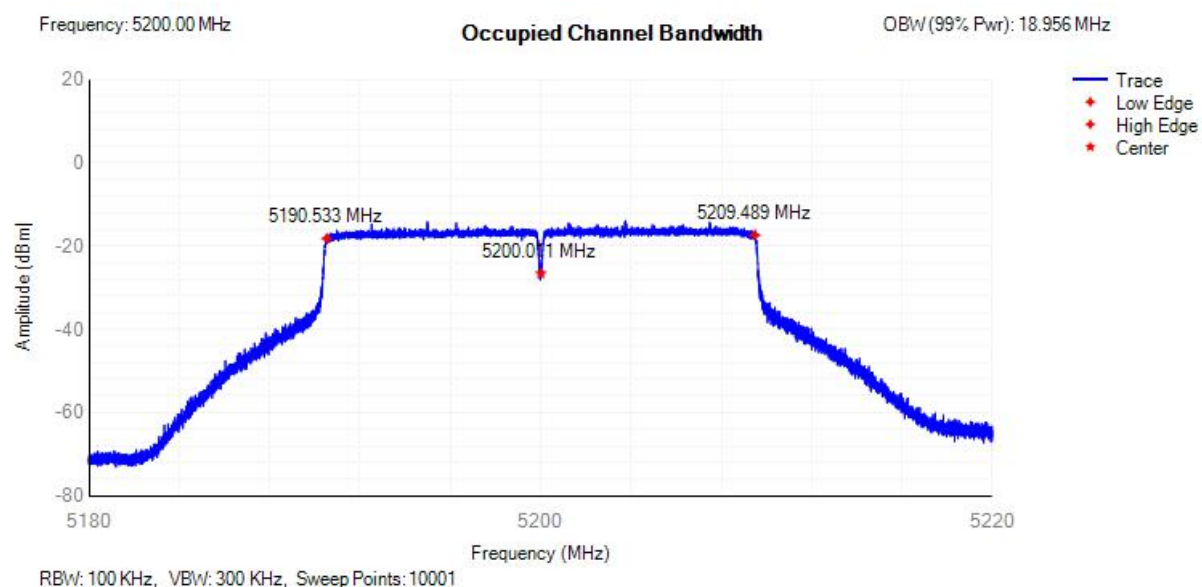
OBW NVNT n40 5230MHz



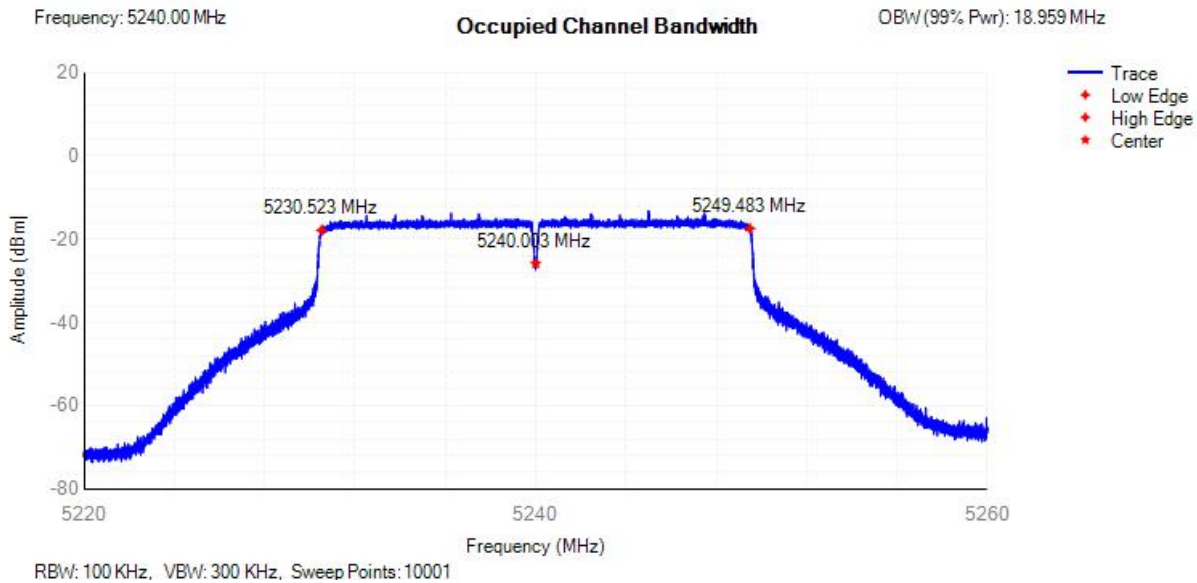
OBW NVNT ax20 5180MHz



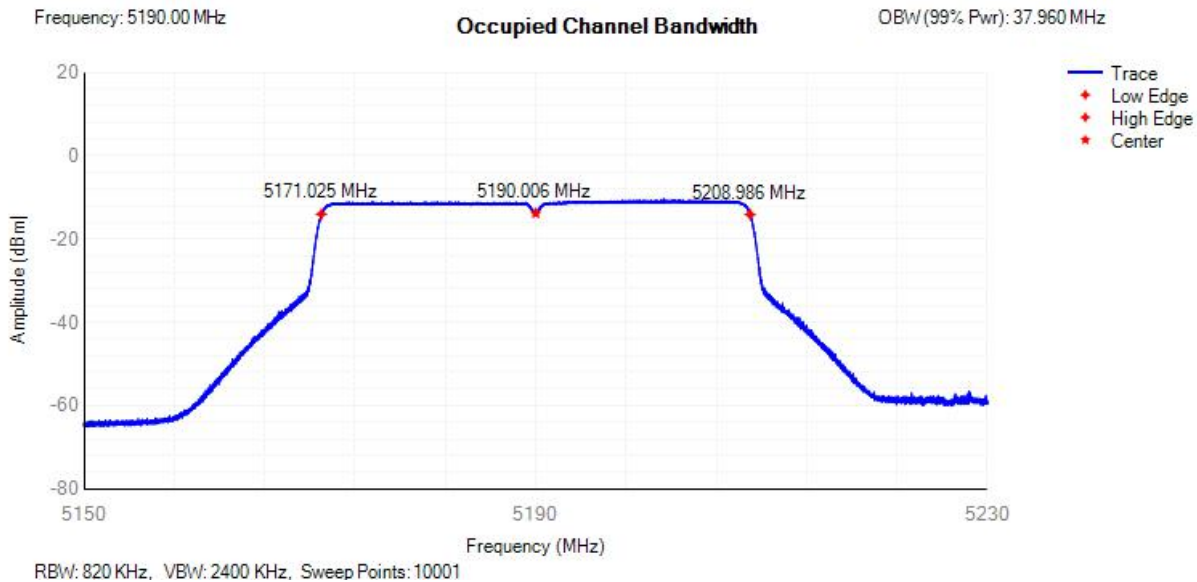
OBW NVNT ax20 5200MHz



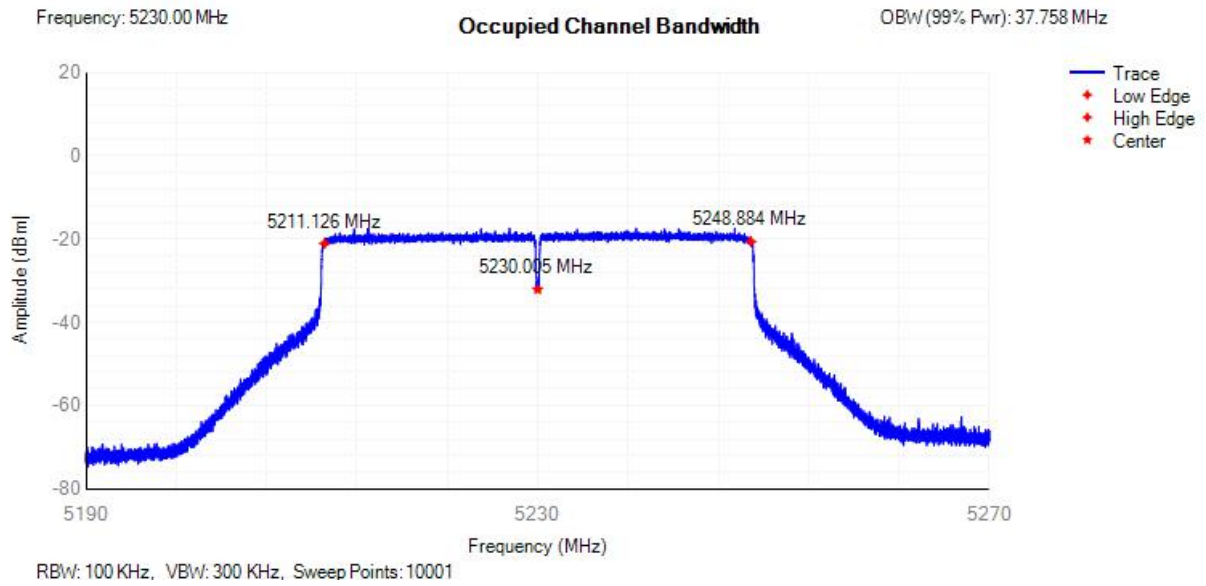
OBW NVNT ax20 5240MHz



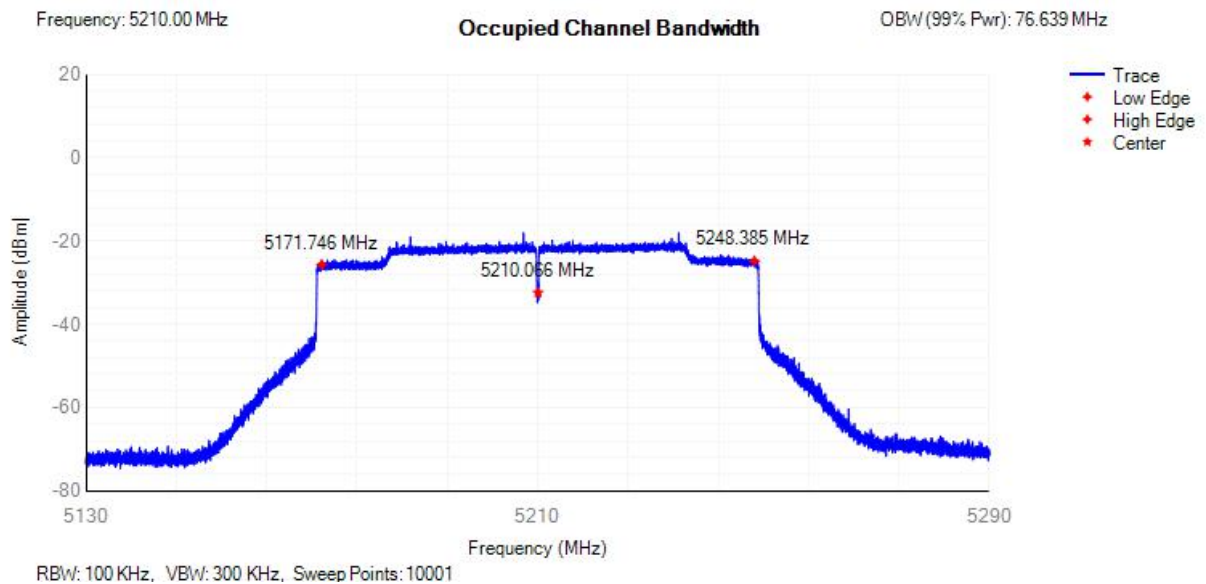
OBW NVNT ax40 5190MHz



OBW NVNT ax40 5230MHz



OBW NVNT ax80 5210MHz



H.3 RF Output Power

Test Conditions		The Lowest Declared Channel: 5180MHz 802.11a		
Temperature (°C)	Voltage (V _{DC})	RF Output Power EIRP(dBm)		Limit (dBm)
		ANT0	ANT1	
0°C	AC 100V	16.35	15.62	23
	AC 230V	15.80	15.72	
	AC 240V	16.22	15.90	
25°C	AC 100V	16.48	15.79	
	AC 230V	15.98	15.85	
	AC 240V	16.43	16.04	
35°C	AC 100V	16.33	15.56	
	AC 230V	15.77	15.68	
	AC 240V	16.25	15.89	

Test Conditions		The Lowest Declared Channel: 5180MHz 802.11n(20MHz)			
Temperature (°C)	Voltage (V _{DC})	RF Output Power EIRP(dBm)			Limit (dBm)
		ANT0	ANT1	ANT0+ANT1	
0°C	AC 100V	15.88	15.33	18.62	23
	AC 230V	15.83	15.73	18.79	
	AC 240V	15.85	15.55	18.71	
25°C	AC 100V	15.98	15.52	18.77	
	AC 230V	16.06	15.94	19.01	
	AC 240V	15.98	15.73	18.87	
35°C	AC 100V	15.86	15.41	18.65	
	AC 230V	15.83	15.80	18.83	
	AC 240V	15.81	15.55	18.69	

Test Conditions		The Lowest Declared Channel: 5180MHz 802.11ac(20MHz)			
Temperature (°C)	Voltage (V _{DC})	RF Output Power EIRP(dBm)			Limit (dBm)
		ANT0	ANT1	ANT0+ANT1	
0°C	AC 100V	15.22	15.64	18.45	23
	AC 230V	15.27	16.40	18.88	
	AC 240V	15.42	15.80	18.62	
25°C	AC 100V	15.36	15.82	18.61	
	AC 230V	15.37	16.52	18.99	
	AC 240V	15.6	15.91	18.77	
35°C	AC 100V	15.22	15.66	18.46	
	AC 230V	15.23	16.40	18.86	
	AC 240V	15.47	15.68	18.59	

Test Conditions		The Lowest Declared Channel: 5180MHz 802.11ax(20MHz)			
Temperature (°C)	Voltage (V _{DC})	RF Output Power EIRP(dBm)			Limit (dBm)
		ANT0	ANT1	ANT0+ANT1	
0°C	AC 100V	14.46	14.43	17.46	23
	AC 230V	14.51	14.48	17.51	
	AC 240V	14.42	14.40	17.42	
25°C	AC 100V	14.49	14.45	17.48	
	AC 230V	14.59	14.52	17.57	
	AC 240V	14.45	14.38	17.43	
35°C	AC 100V	14.47	14.41	17.45	
	AC 230V	14.50	14.46	17.49	
	AC 240V	14.53	14.43	17.49	

Test Conditions		The Lowest Declared Channel: 5190MHz 802.11n(40MHz)			
Temperature (°C)	Voltage (V _{DC})	RF Output Power EIRP(dBm)			Limit (dBm)
		ANT0	ANT1	ANT0+ANT1	
0°C	AC 100V	14.94	15.14	18.05	23
	AC 230V	14.85	15.14	18.01	
	AC 240V	14.61	15.01	17.82	
25°C	AC 100V	15.04	15.35	18.21	
	AC 230V	15.08	15.35	18.23	
	AC 240V	14.85	15.16	18.02	
35°C	AC 100V	14.82	15.12	17.98	
	AC 230V	14.87	15.15	18.02	
	AC 240V	14.66	15.00	17.84	

Test Conditions		The Lowest Declared Channel: 5190MHz 802.11ac(40MHz)			
Temperature (°C)	Voltage (V _{DC})	RF Output Power EIRP(dBm)			Limit (dBm)
		ANT0	ANT1	ANT0+ANT1	
0°C	AC 100V	15.02	15.38	18.21	23
	AC 230V	15.10	15.66	18.40	
	AC 240V	14.91	15.05	17.99	
25°C	AC 100V	15.21	15.53	18.38	
	AC 230V	15.30	15.79	18.56	
	AC 240V	15.07	15.23	18.16	
35°C	AC 100V	15.04	15.42	18.24	
	AC 230V	15.15	15.58	18.38	
	AC 240V	14.86	15.02	17.95	

Test Conditions		The Lowest Declared Channel: 5190MHz 802.11ax(40MHz)			
Temperature (°C)	Voltage (V _{DC})	RF Output Power EIRP(dBm)			Limit (dBm)
		ANT0	ANT1	ANT0+ANT1	
0°C	AC 100V	14.42	14.39	17.42	23
	AC 230V	14.54	14.43	17.50	
	AC 240V	14.48	14.37	17.44	
25°C	AC 100V	14.49	14.45	17.48	
	AC 230V	14.57	14.50	17.55	
	AC 240V	14.50	14.44	17.48	
35°C	AC 100V	14.45	14.41	17.44	
	AC 230V	14.47	14.47	17.48	
	AC 240V	14.43	14.38	17.42	

Test Conditions		The Lowest Declared Channel: 5210MHz 802.11ac(80MHz)			
Temperature (°C)	Voltage (V _{DC})	RF Output Power EIRP(dBm)			Limit (dBm)
		ANT0	ANT1	ANT0+ANT1	
0°C	AC 100V	14.18	14.97	17.60	23
	AC 230V	14.74	15.67	18.24	
	AC 240V	14.26	15.36	17.86	
25°C	AC 100V	14.39	15.10	17.77	
	AC 230V	14.98	15.87	18.46	
	AC 240V	14.42	15.54	18.03	
35°C	AC 100V	14.25	14.98	17.64	
	AC 230V	14.75	15.73	18.28	
	AC 240V	14.24	15.42	17.88	

Test Conditions		The Lowest Declared Channel: 5210MHz 802.11ax(80MHz)			
Temperature (°C)	Voltage (V _{DC})	RF Output Power EIRP(dBm)			Limit (dBm)
		ANT0	ANT1	ANT0+ANT1	
0°C	AC 100V	14.81	14.80	17.82	23
	AC 230V	14.79	14.75	17.78	
	AC 240V	14.75	14.71	17.74	
25°C	AC 100V	14.82	14.83	17.84	
	AC 230V	14.88	14.89	17.90	
	AC 240V	14.75	14.72	17.75	
35°C	AC 100V	14.72	14.78	17.76	
	AC 230V	14.80	14.74	17.78	
	AC 240V	14.73	14.76	17.76	

H.4 Power Spectral Density

Condition	Mode	Frequency (MHz)	Max PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			ANT0	ANT1	ANT0+ANT1		
NVNT	a	5180	3.89	3.18	/	10	Pass
NVNT	a	5200	3.37	3.24	/	10	Pass
NVNT	a	5240	3.87	3.57	/	10	Pass
NVNT	n20	5180	2.58	3.00	5.81	10	Pass
NVNT	n20	5200	2.49	3.69	6.14	10	Pass
NVNT	n20	5240	2.80	3.22	6.03	10	Pass
NVNT	ac20	5180	-0.74	-0.38	2.45	10	Pass
NVNT	ac20	5200	-0.59	-0.12	2.66	10	Pass
NVNT	ac20	5240	-3.25	-2.27	0.28	10	Pass
NVNT	n40	5190	2.77	2.34	5.57	10	Pass
NVNT	n40	5230	2.92	2.68	5.81	10	Pass
NVNT	ac40	5190	2.72	2.43	5.59	10	Pass
NVNT	ac40	5230	-1.21	-0.83	5.81	10	Pass
NVNT	ac80	5210	-1.17	-0.88	1.99	10	Pass
NVNT	ax20	5180	1.1	1.21	4.17	10	Pass
NVNT	ax20	5200	1.37	1.53	4.46	10	Pass
NVNT	ax20	5240	1.54	1.4	4.48	10	Pass
NVNT	ax40	5190	-1.82	-1.87	1.17	10	Pass
NVNT	ax40	5230	-1.6	-1.58	1.42	10	Pass
NVNT	ax80	5210	-3.73	-3.57	-0.64	10	Pass

H.5 Transmitter unwanted emissions in the spurious domain

The Worst Case: ANT0

The Worst Test Result For 802.11a					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
57.33	H	-85.14	-54.00	-31.14	PK
65.72	V	-74.75	-54.00	-20.75	PK
807.75	H	-77.87	-54.00	-23.87	PK
922.88	V	-75.62	-36.00	-39.62	PK
3502.19	H	-51.37	-30.00	-21.37	PK
3472.72	V	-61.33	-30.00	-31.33	PK
10360.09	H	-55.37	-30.00	-25.37	PK
10360.08	V	-51.54	-30.00	-21.54	PK

The Worst Test Result For 802.11n(20MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
56.98	H	-81.40	-54.00	-27.40	PK
66.17	V	-73.86	-54.00	-19.86	PK
810.51	H	-75.14	-54.00	-21.14	PK
925.02	V	-74.44	-36.00	-38.44	PK
3481.68	H	-49.73	-30.00	-19.73	PK
3484.80	V	-60.70	-30.00	-30.70	PK
10360.01	H	-53.27	-30.00	-23.27	PK
10360.03	V	-50.99	-30.00	-20.99	PK

The Worst Test Result For 802.11ac(20MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
60.83	H	-81.08	-54.00	-27.08	PK
68.37	V	-73.47	-54.00	-19.47	PK
808.76	H	-75.66	-54.00	-21.66	PK
922.61	V	-74.29	-36.00	-38.29	PK
3479.07	H	-48.93	-30.00	-18.93	PK
3466.02	V	-61.52	-30.00	-31.52	PK
10360.09	H	-53.33	-30.00	-23.33	PK
10360.01	V	-50.59	-30.00	-20.59	PK

The Worst Test Result For 802.11ax(20MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
142.82	H	-76.08	-54.00	-22.08	PK
168.42	V	-74.41	-54.00	-20.41	PK
808.76	H	-76.74	-54.00	-22.74	PK
922.61	V	-71.31	-36.00	-35.31	PK
3479.07	H	-50.42	-30.00	-20.42	PK
3466.02	V	-60.54	-30.00	-30.54	PK
10360.09	H	-52.34	-30.00	-22.34	PK
10360.01	V	-51.31	-30.00	-21.31	PK

The Worst Test Result For 802.11n(40MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
57.11	H	-83.38	-54.00	-29.38	PK
67.80	V	-73.77	-54.00	-19.77	PK
809.11	H	-75.88	-54.00	-21.88	PK
926.01	V	-74.06	-36.00	-38.06	PK
3465.03	H	-48.72	-30.00	-18.72	PK
3459.62	V	-59.42	-30.00	-29.42	PK
10380.07	H	-54.02	-30.00	-24.02	PK
10380.03	V	-50.65	-30.00	-20.65	PK

The Worst Test Result For 802.11ac(40MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
58.73	H	-83.47	-54.00	-29.47	PK
68.03	V	-73.21	-54.00	-19.21	PK
808.68	H	-75.63	-54.00	-21.63	PK
922.91	V	-74.46	-36.00	-38.46	PK
3465.23	H	-48.88	-30.00	-18.88	PK
3459.22	V	-60.29	-30.00	-30.29	PK
10380.09	H	-53.21	-30.00	-23.21	PK
10380.04	V	-50.25	-30.00	-20.25	PK

The Worst Test Result For 802.11ax(40MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
62.71	H	-78.24	-54.00	-24.24	PK
64.54	V	-71.22	-54.00	-17.22	PK
808.62	H	-72.61	-54.00	-18.61	PK
922.91	V	-70.46	-36.00	-34.46	PK
3465.23	H	-49.24	-30.00	-19.24	PK
3459.22	V	-58.61	-30.00	-28.61	PK
10380.09	H	-53.76	-30.00	-23.76	PK
10380.04	V	-51.35	-30.00	-21.35	PK

The Worst Test Result For 802.11ac(80MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 42(5210MHz)					
60.00	H	-83.11	-54.00	-29.11	PK
69.10	V	-73.61	-54.00	-19.61	PK
808.35	H	-75.86	-54.00	-21.86	PK
924.36	V	-74.16	-36.00	-38.16	PK
3512.20	H	-49.32	-30.00	-19.32	PK
3474.99	V	-60.72	-30.00	-30.72	PK
10420.04	H	-54.06	-30.00	-24.06	PK
10420.02	V	-50.41	-30.00	-20.41	PK

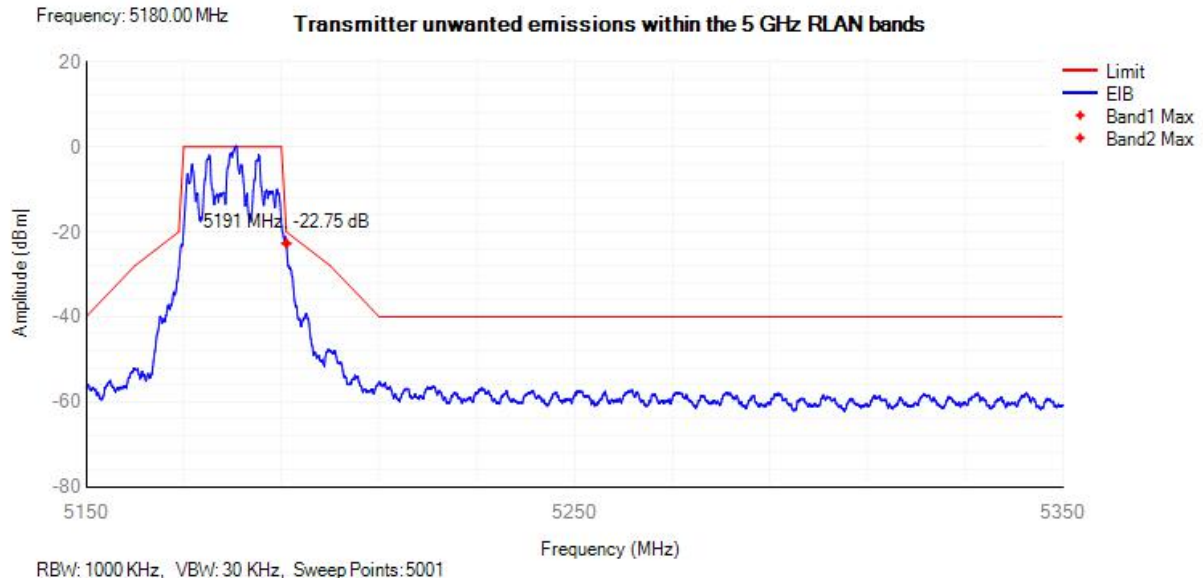
The Worst Test Result For 802.11ax(80MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 42(5210MHz)					
62.40	H	-76.11	-54.00	-22.11	PK
66.21	V	-71.69	-54.00	-17.69	PK
801.35	H	-70.80	-54.00	-16.80	PK
920.36	V	-72.14	-36.00	-36.14	PK
3512.20	H	-49.13	-30.00	-19.13	PK
3474.99	V	-57.64	-30.00	-27.64	PK
10420.04	H	-52.34	-30.00	-22.34	PK
10420.02	V	-51.35	-30.00	-21.35	PK

Note: All test modes were tested, but only record the worst test result.

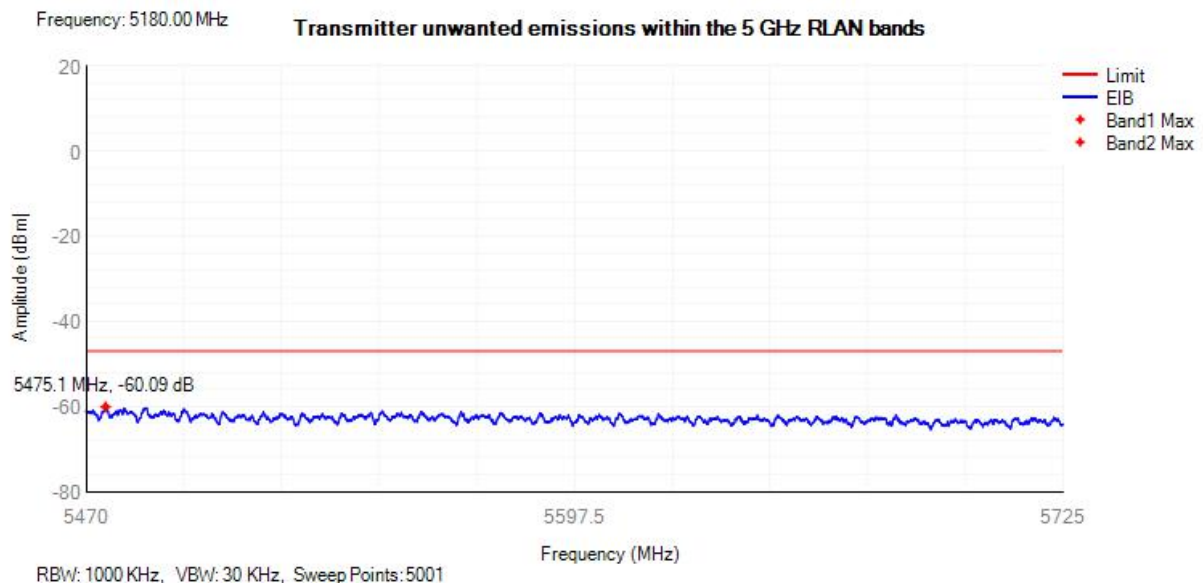
H.6 Transmitter unwanted emissions within the 5 GHz RLAN bands

The Worst Case: ANT0

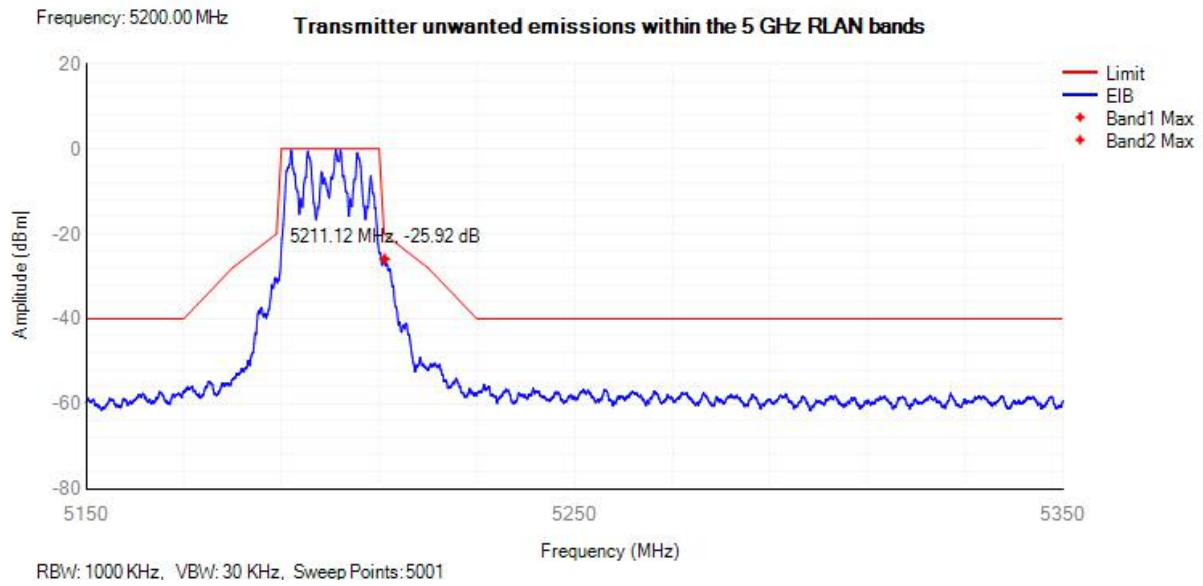
Tx. Emissions EIB NVNT a 5180MHz Sub Band1



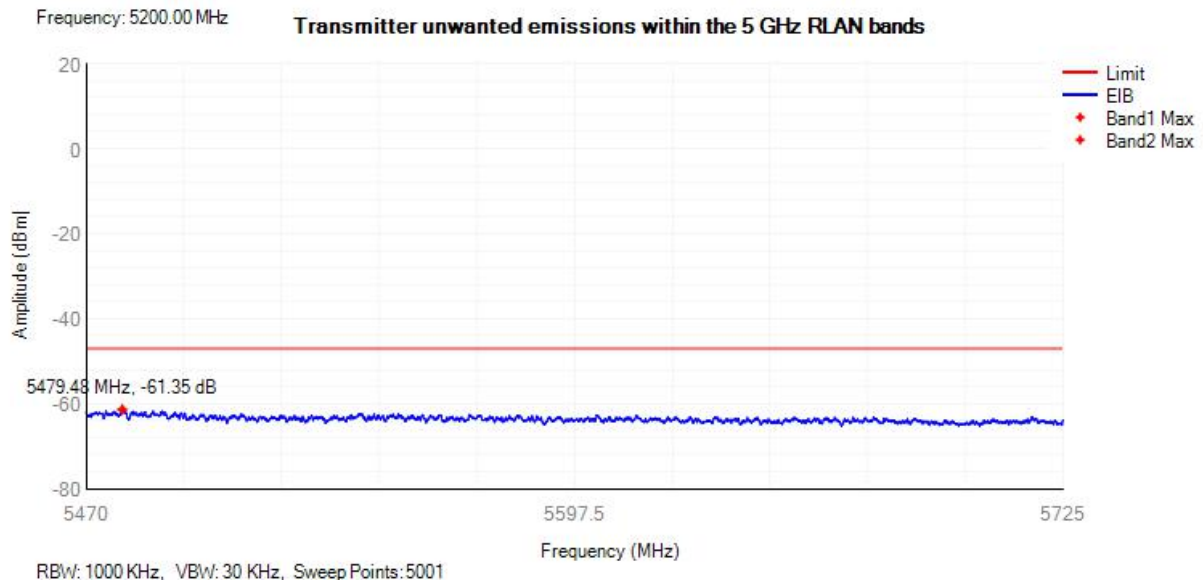
Tx. Emissions EIB NVNT a 5180MHz Sub Band2



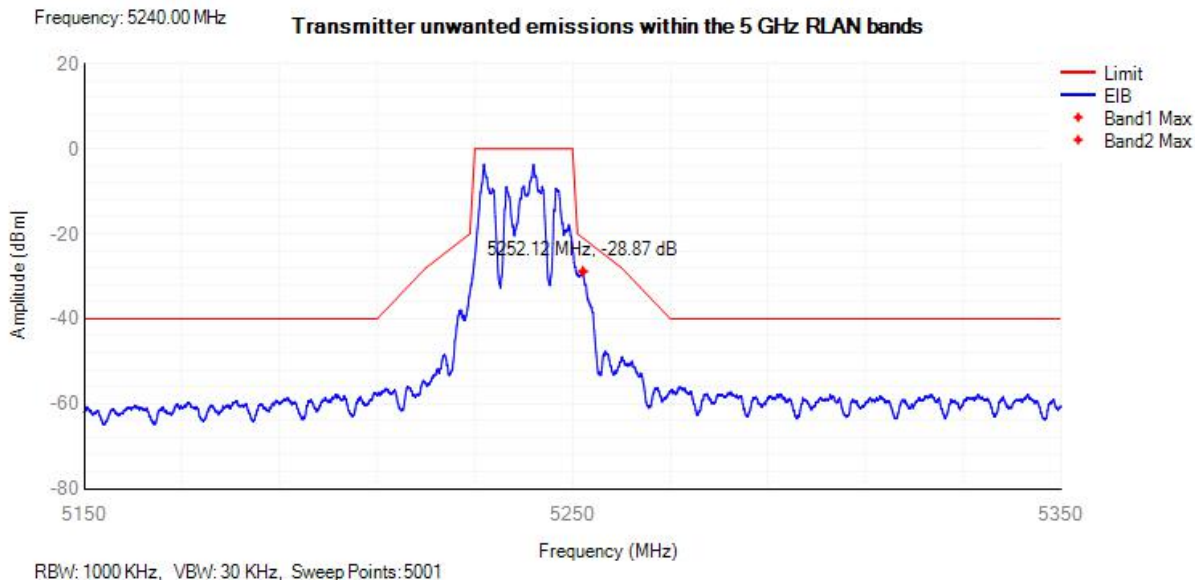
Tx. Emissions EIB NVNT a 5200MHz Sub Band1



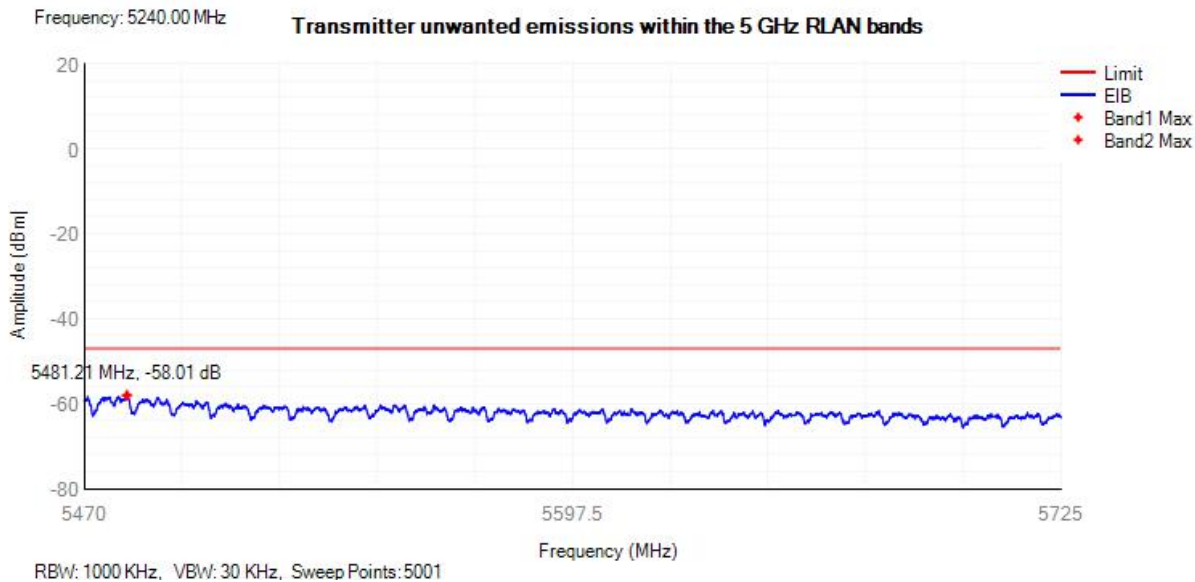
Tx. Emissions EIB NVNT a 5200MHz Sub Band2



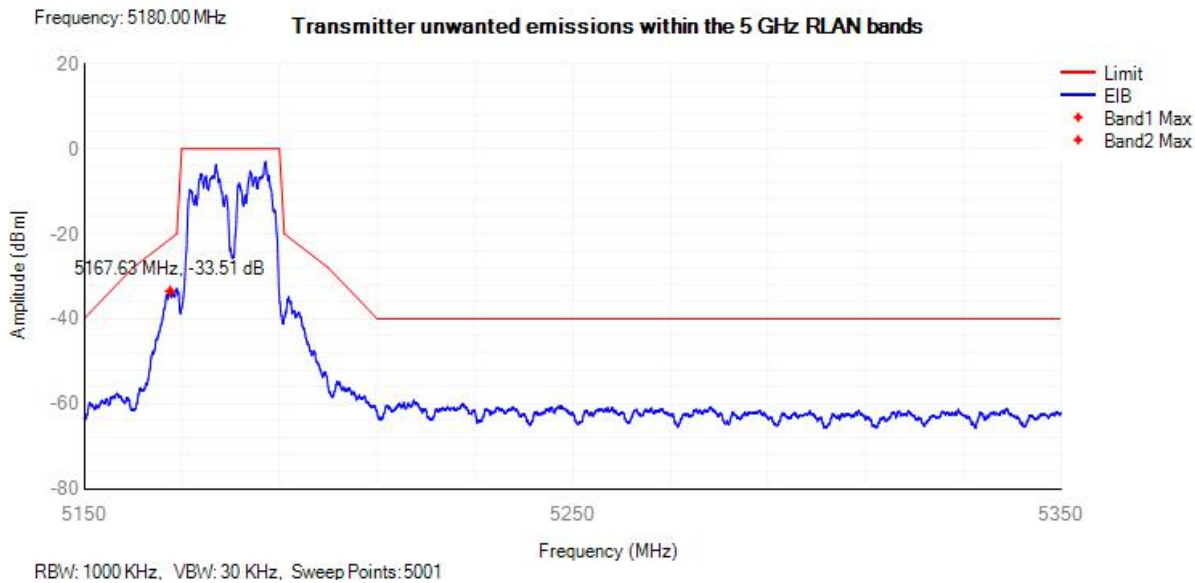
Tx. Emissions EIB NVNT a 5240MHz Sub Band1



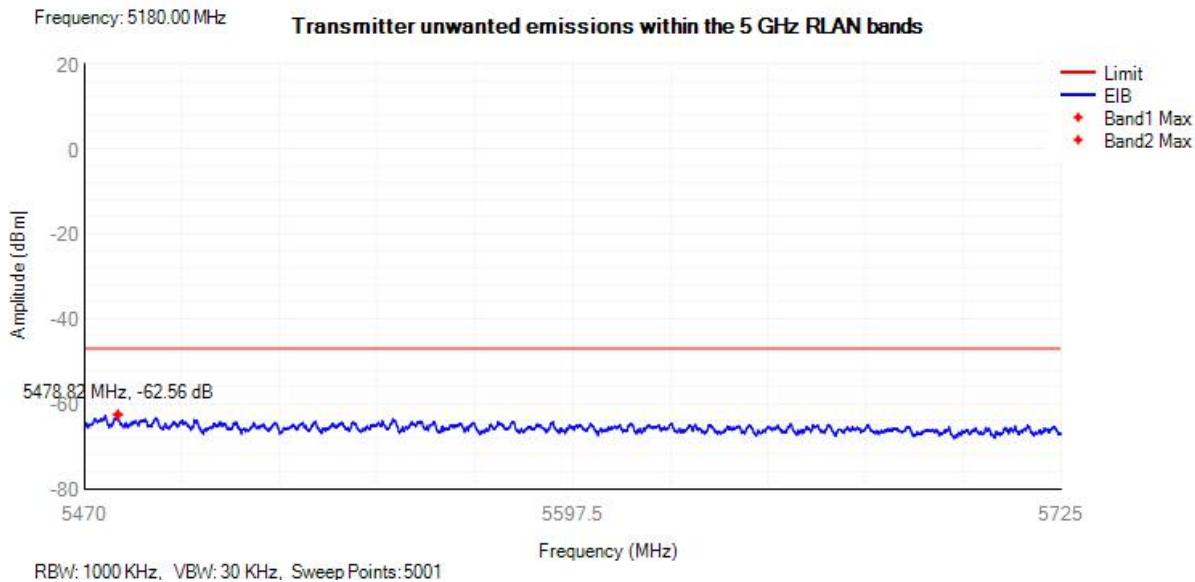
Tx. Emissions EIB NVNT a 5240MHz Sub Band2



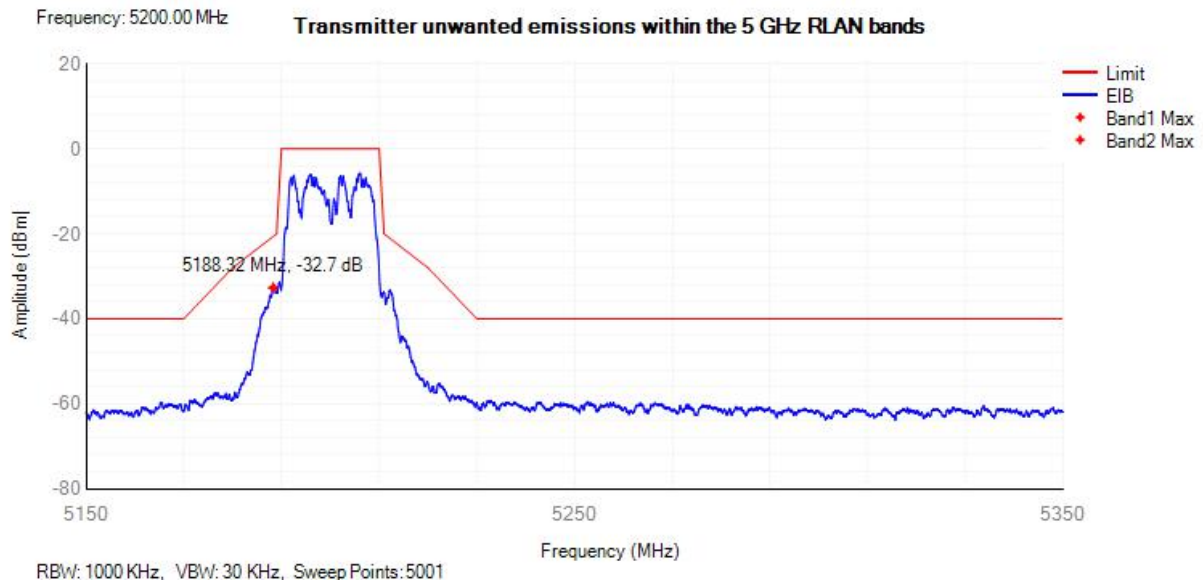
Tx. Emissions EIB NVNT ac20 5180MHz Sub Band1



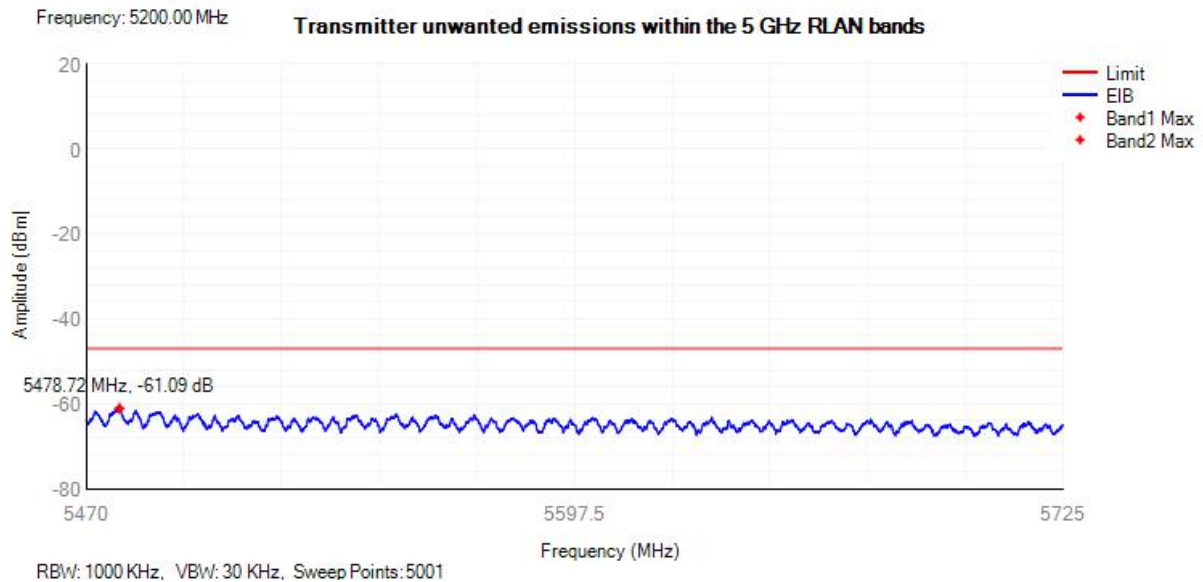
Tx. Emissions EIB NVNT ac20 5180MHz Sub Band2



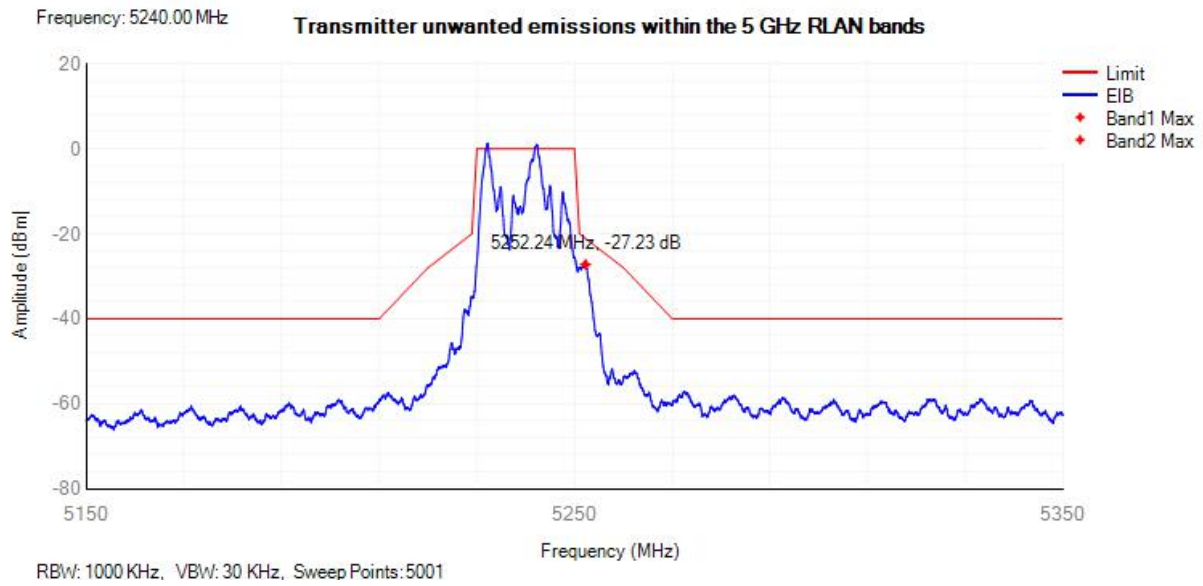
Tx. Emissions EIB NVNT ac20 5200MHz Sub Band1



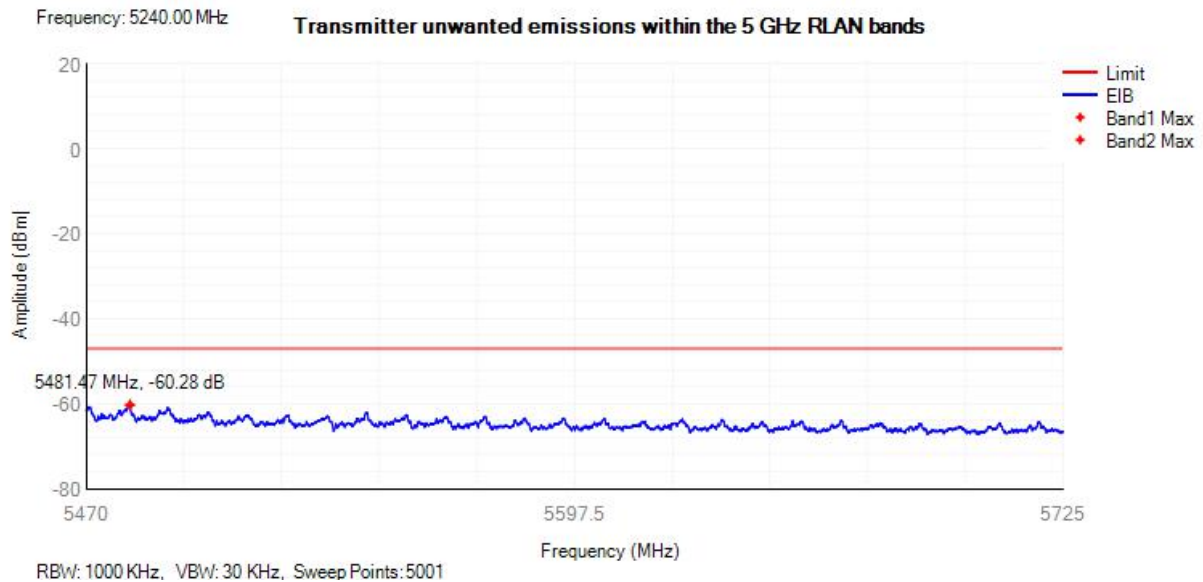
Tx. Emissions EIB NVNT ac20 5200MHz Sub Band2



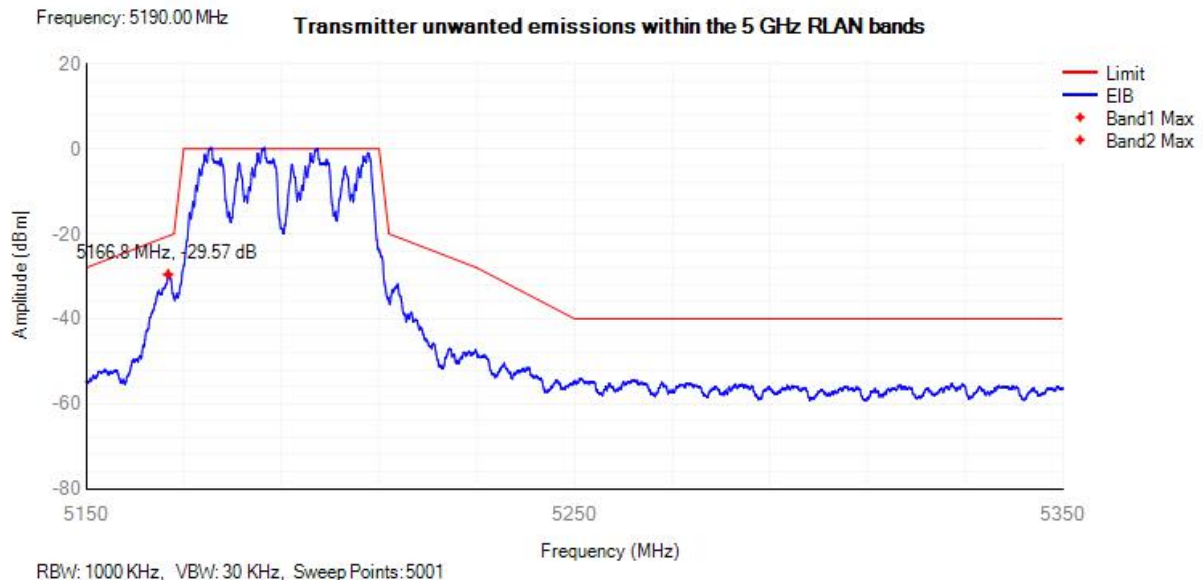
Tx. Emissions EIB NVNT ac20 5240MHz Sub Band1



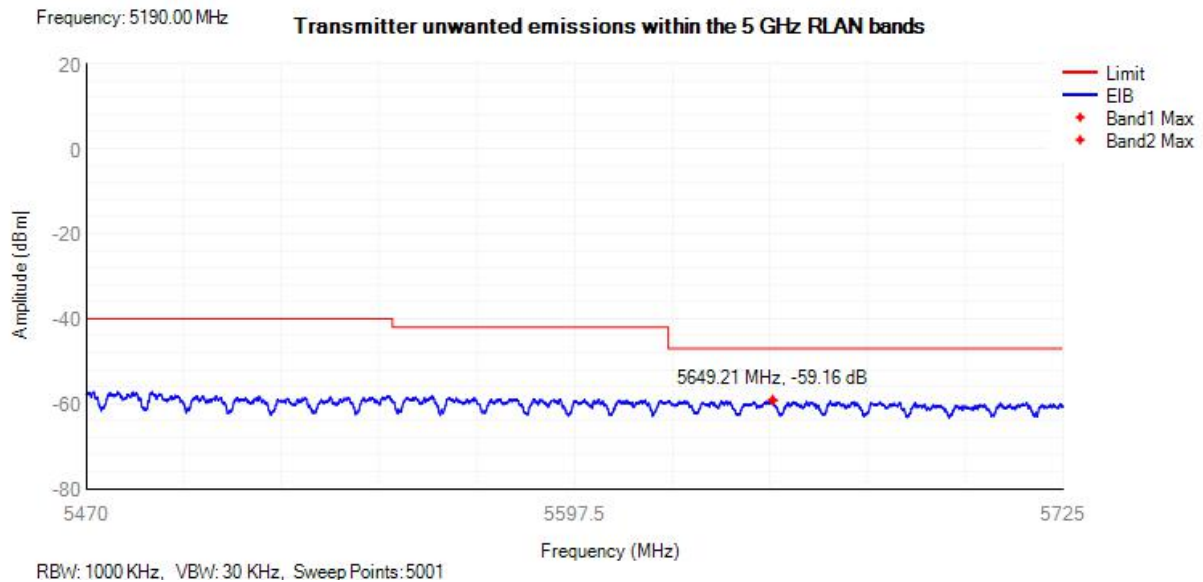
Tx. Emissions EIB NVNT ac20 5240MHz Sub Band2



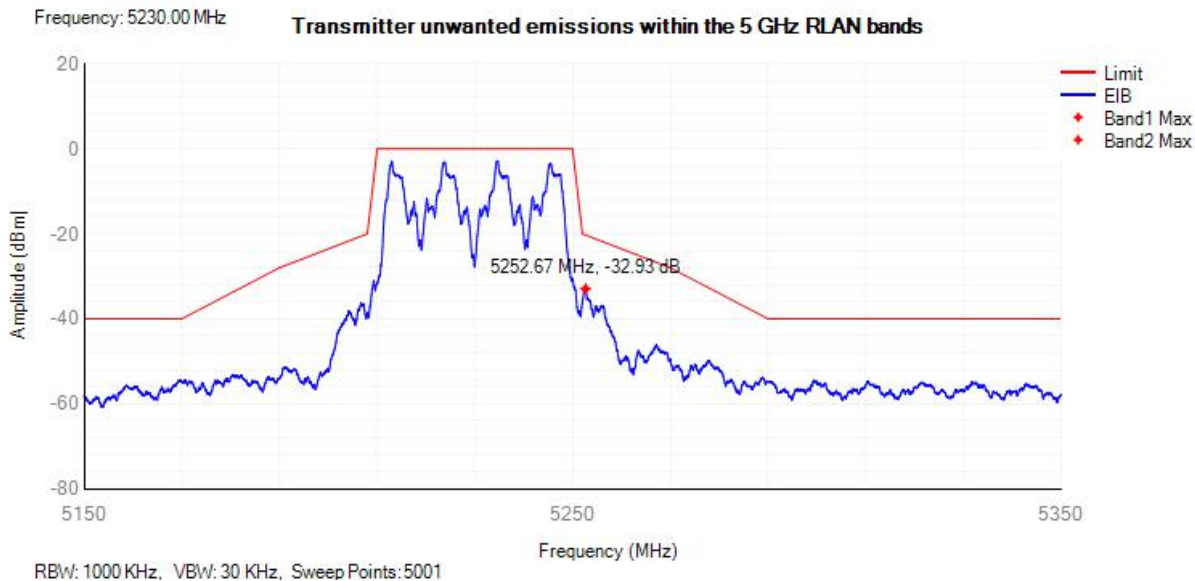
Tx. Emissions EIB NVNT ac40 5190MHz Sub Band1



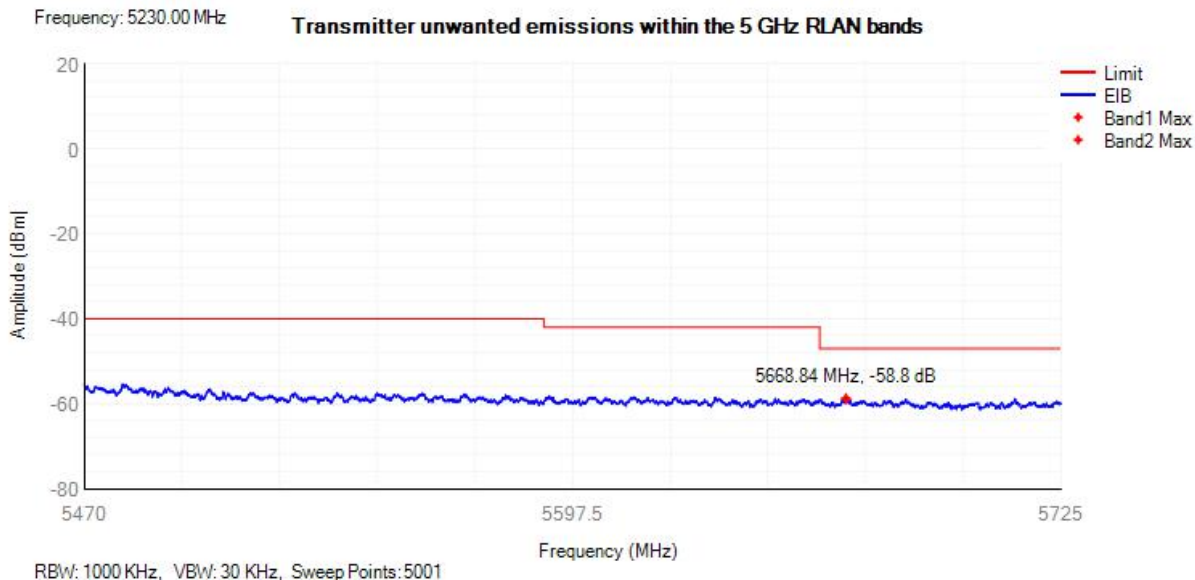
Tx. Emissions EIB NVNT ac40 5190MHz Sub Band2



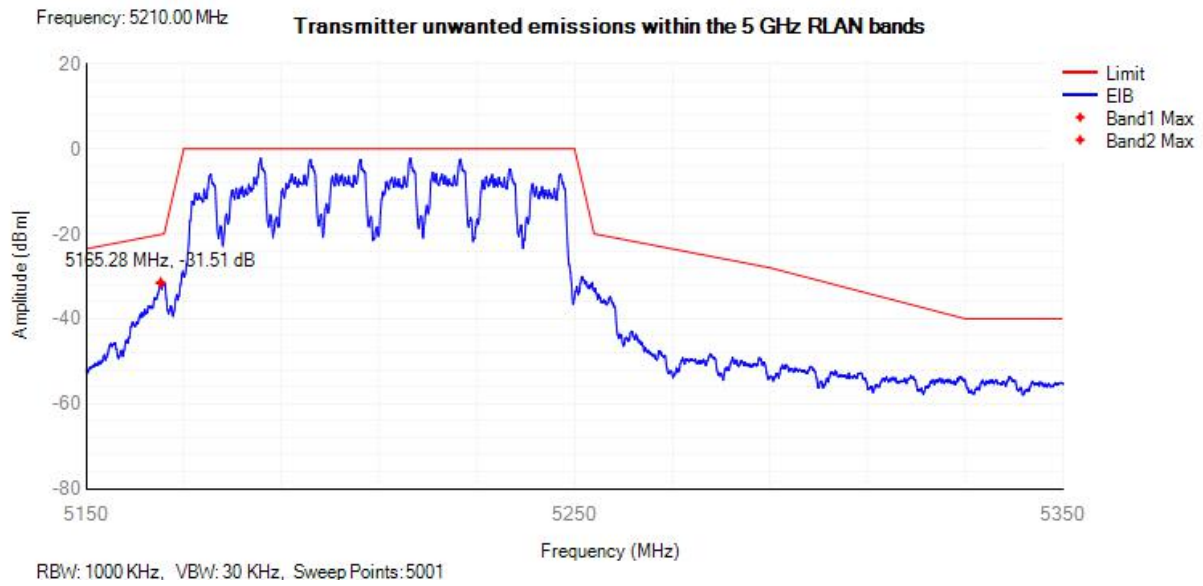
Tx. Emissions EIB NVNT ac40 5230MHz Sub Band1



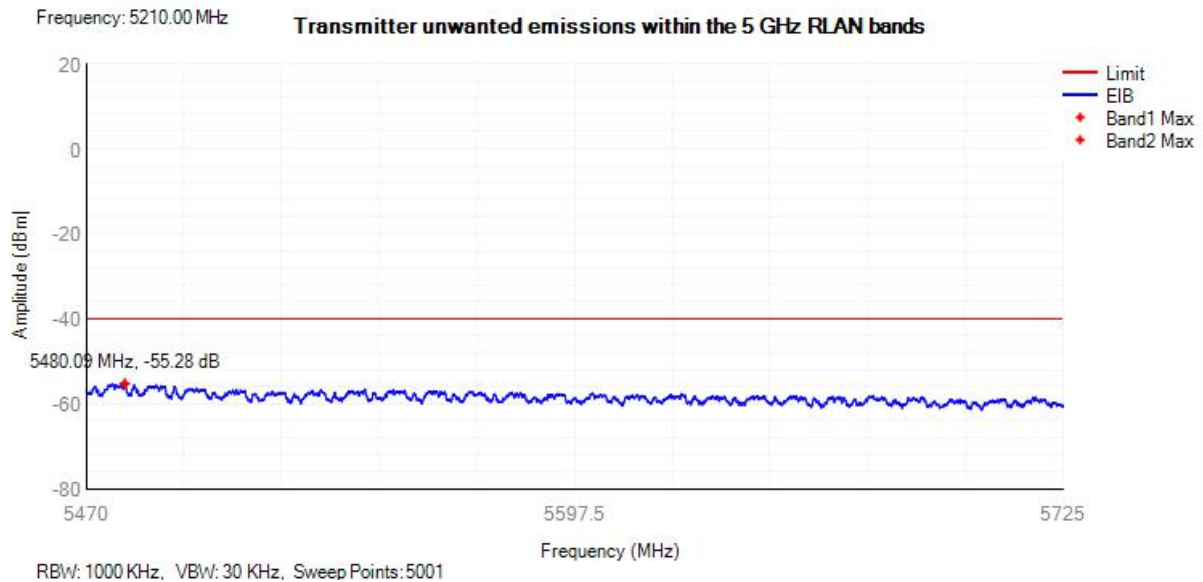
Tx. Emissions EIB NVNT ac40 5230MHz Sub Band2



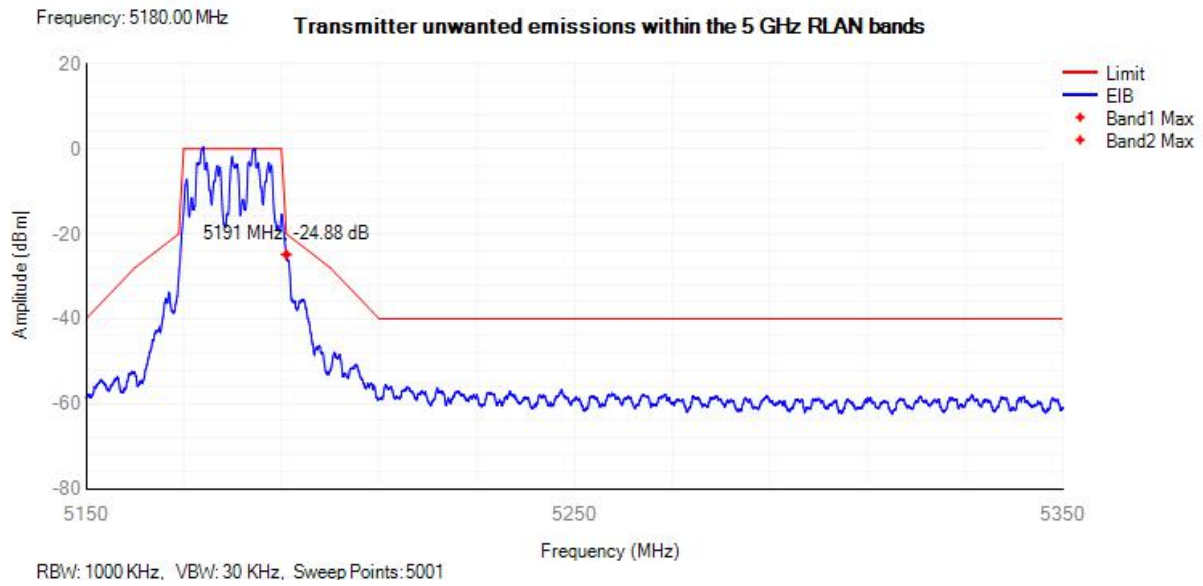
Tx. Emissions EIB NVNT ac80 5210MHz Sub Band1



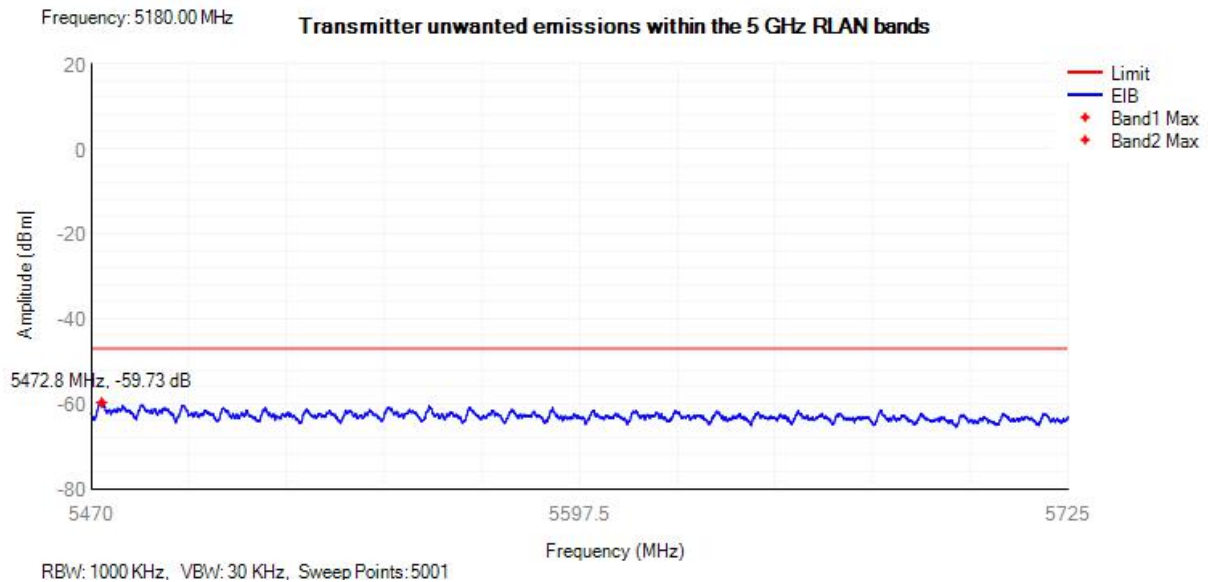
Tx. Emissions EIB NVNT ac80 5210MHz Sub Band2



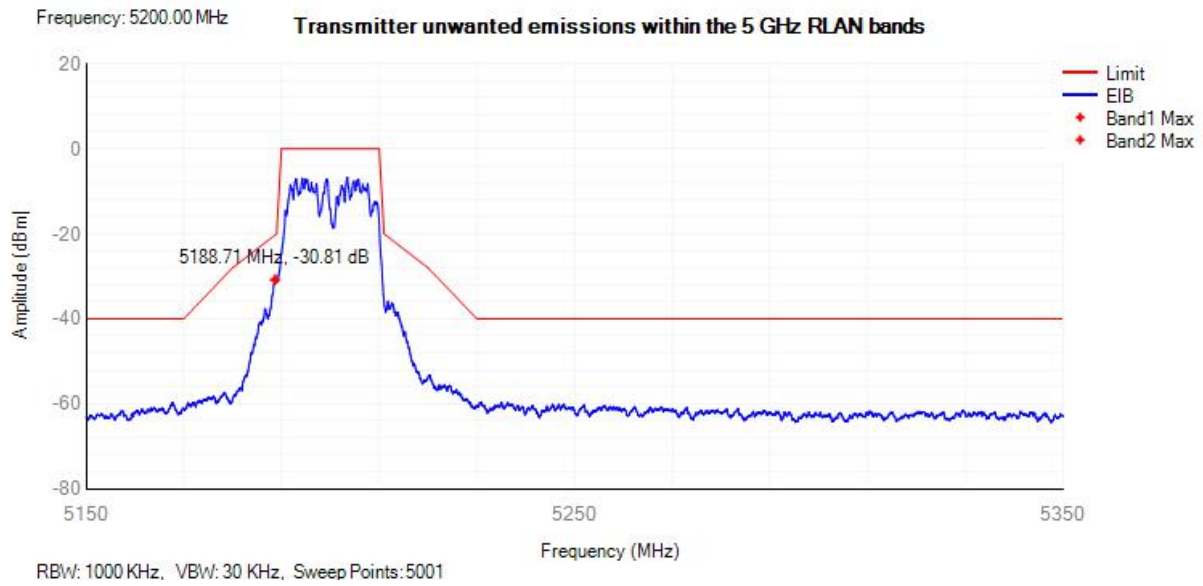
Tx. Emissions EIB NVNT n20 5180MHz Sub Band1



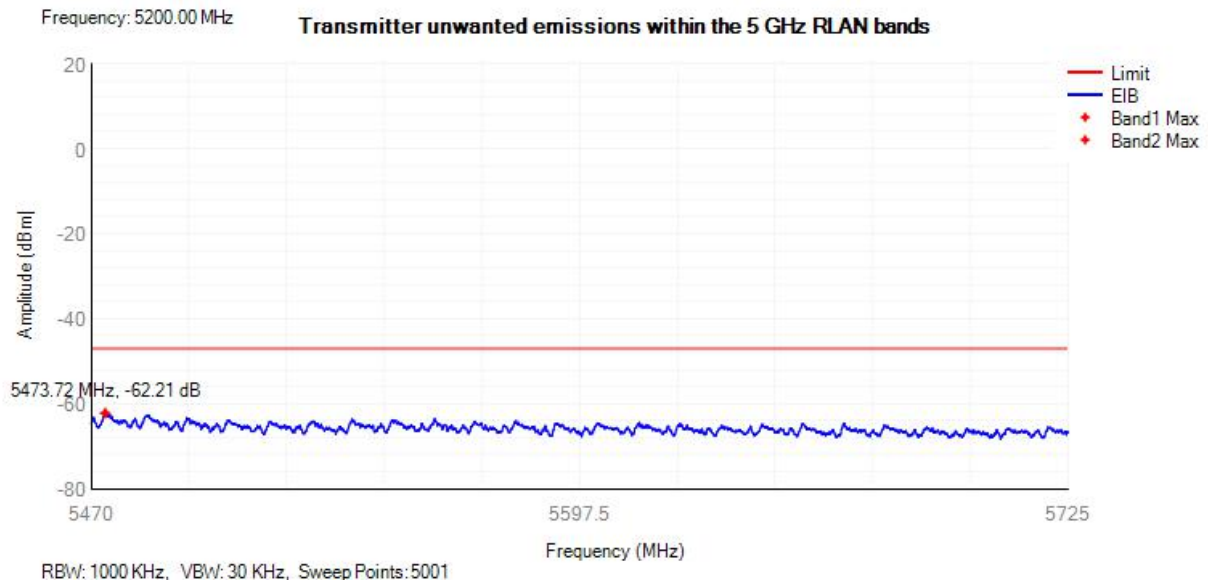
Tx. Emissions EIB NVNT n20 5180MHz Sub Band2



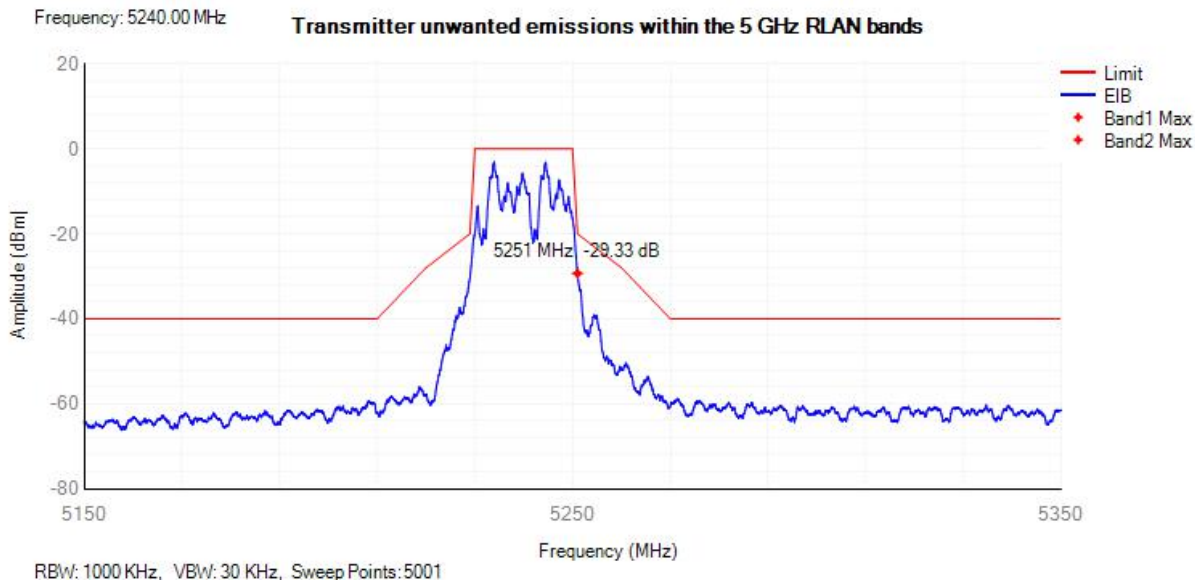
Tx. Emissions EIB NVNT n20 5200MHz Sub Band1



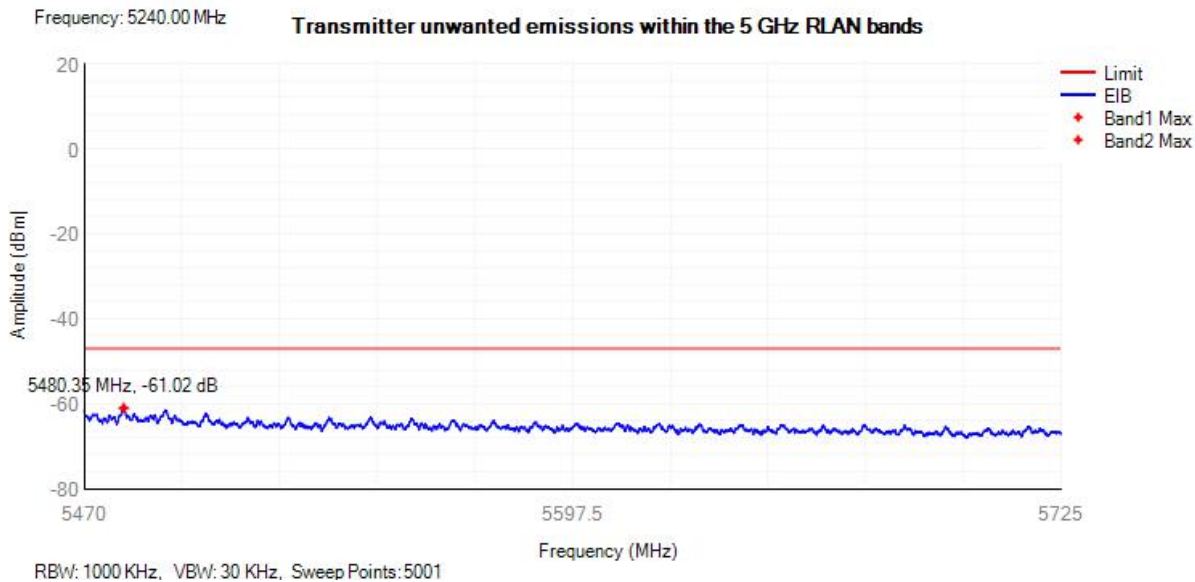
Tx. Emissions EIB NVNT n20 5200MHz Sub Band2



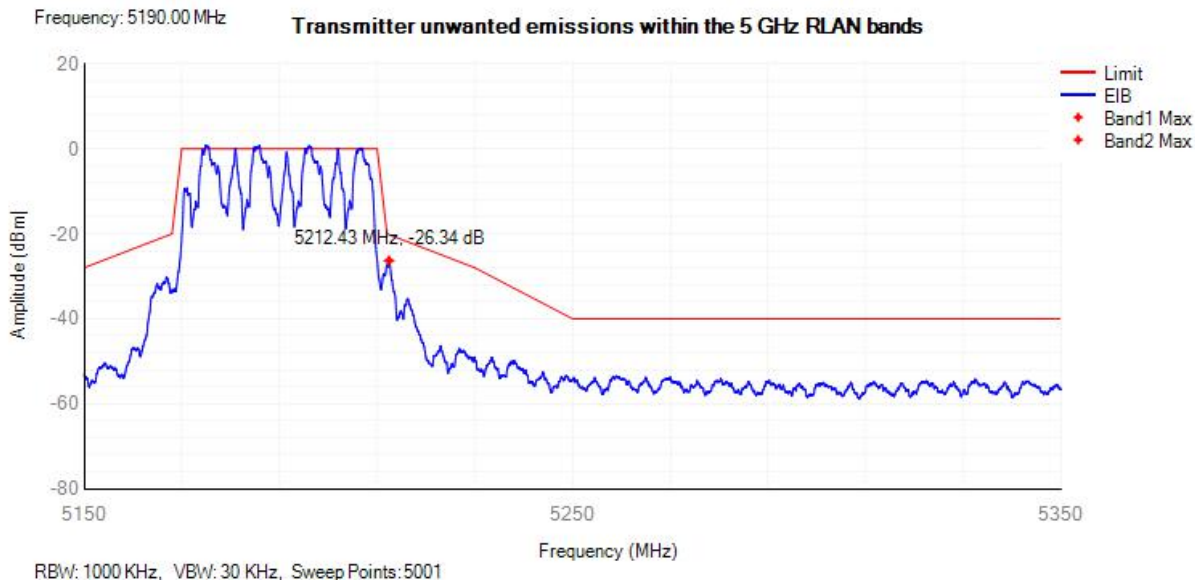
Tx. Emissions EIB NVNT n20 5240MHz Sub Band1



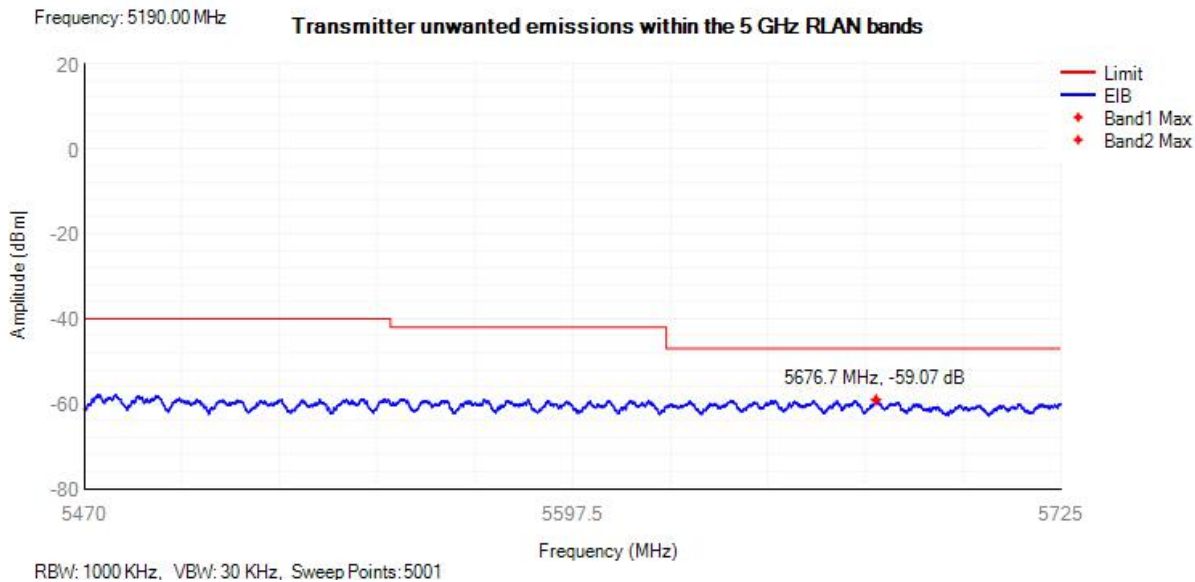
Tx. Emissions EIB NVNT n20 5240MHz Sub Band2



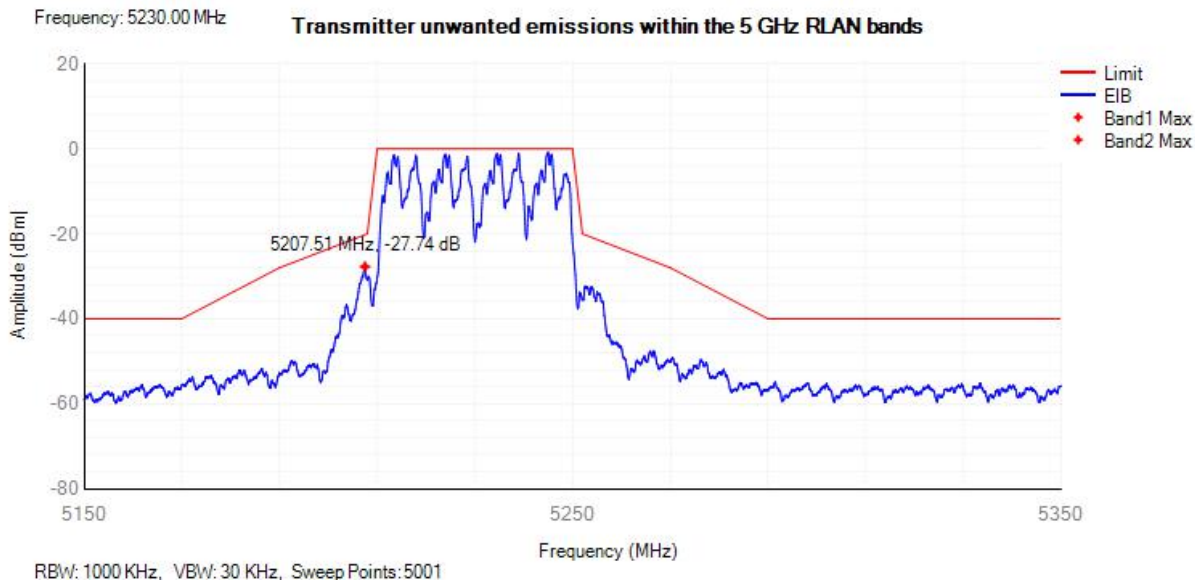
Tx. Emissions EIB NVNT n40 5190MHz Sub Band1



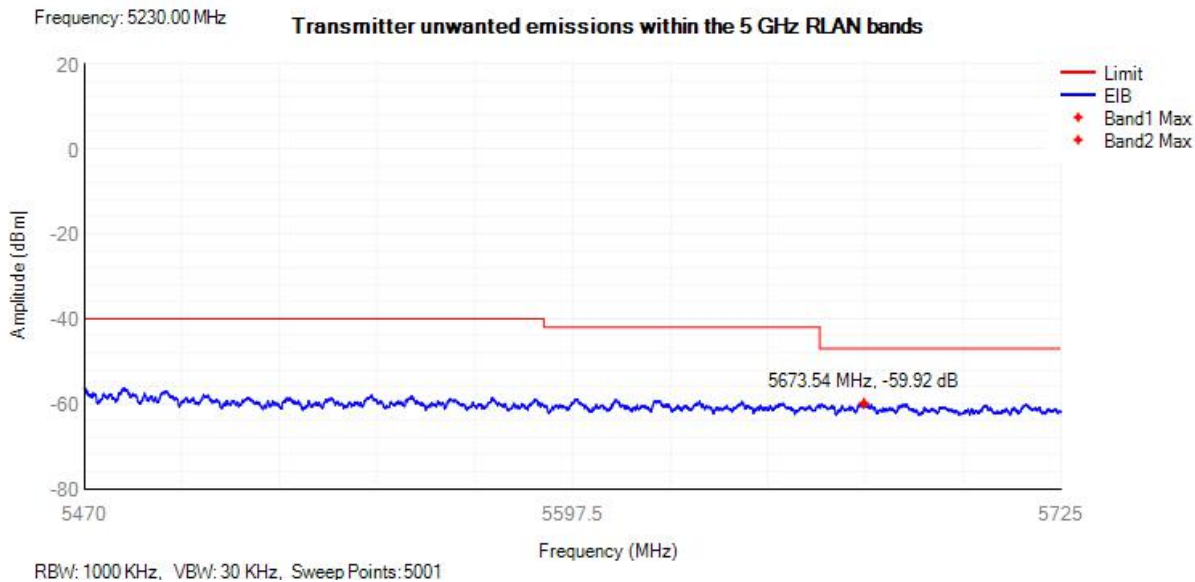
Tx. Emissions EIB NVNT n40 5190MHz Sub Band2



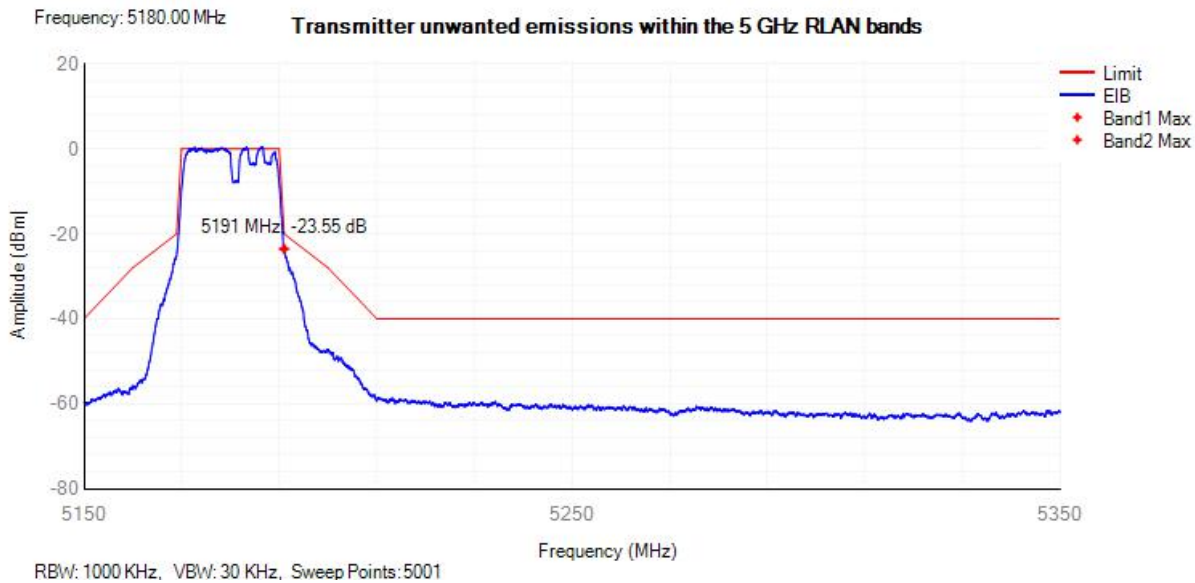
Tx. Emissions EIB NVNT n40 5230MHz Sub Band1



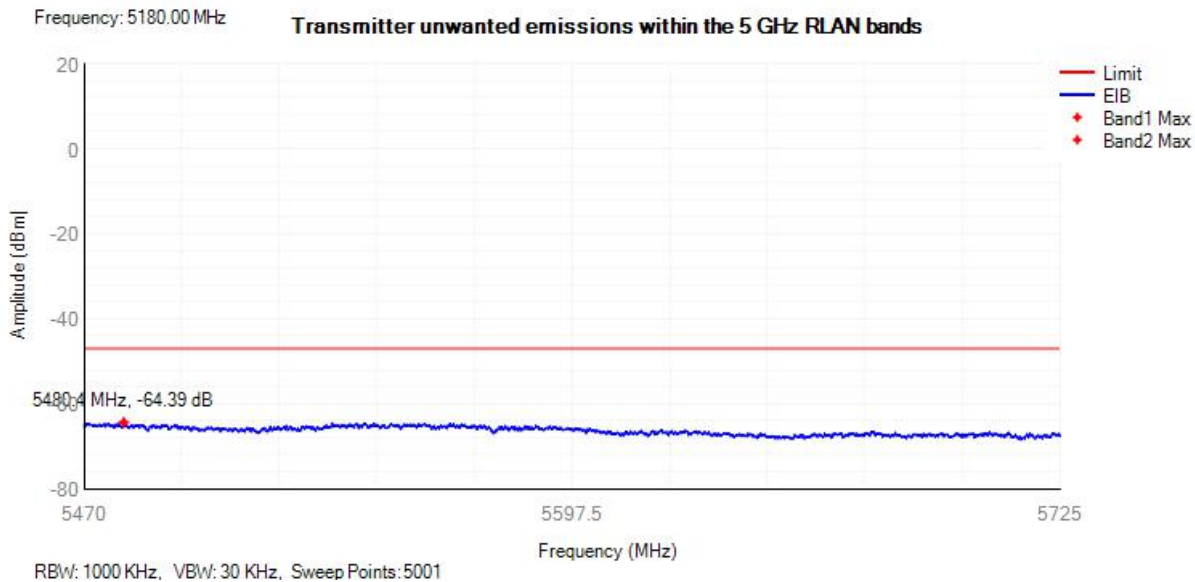
Tx. Emissions EIB NVNT n40 5230MHz Sub Band2



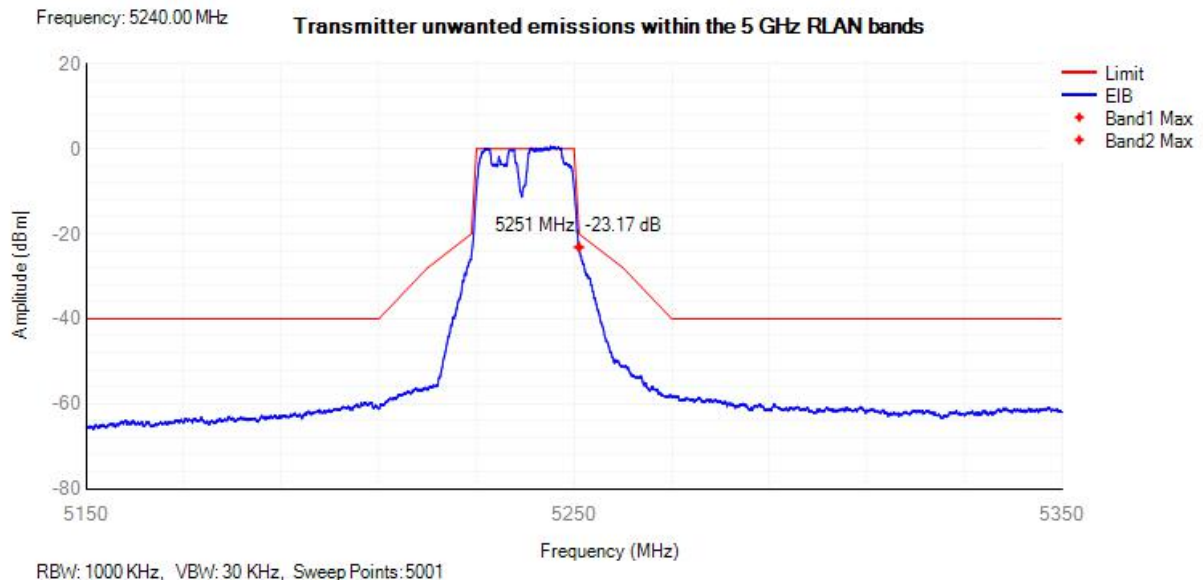
Tx. Emissions EIB NVNT ax20 5180MHz Sub Band1



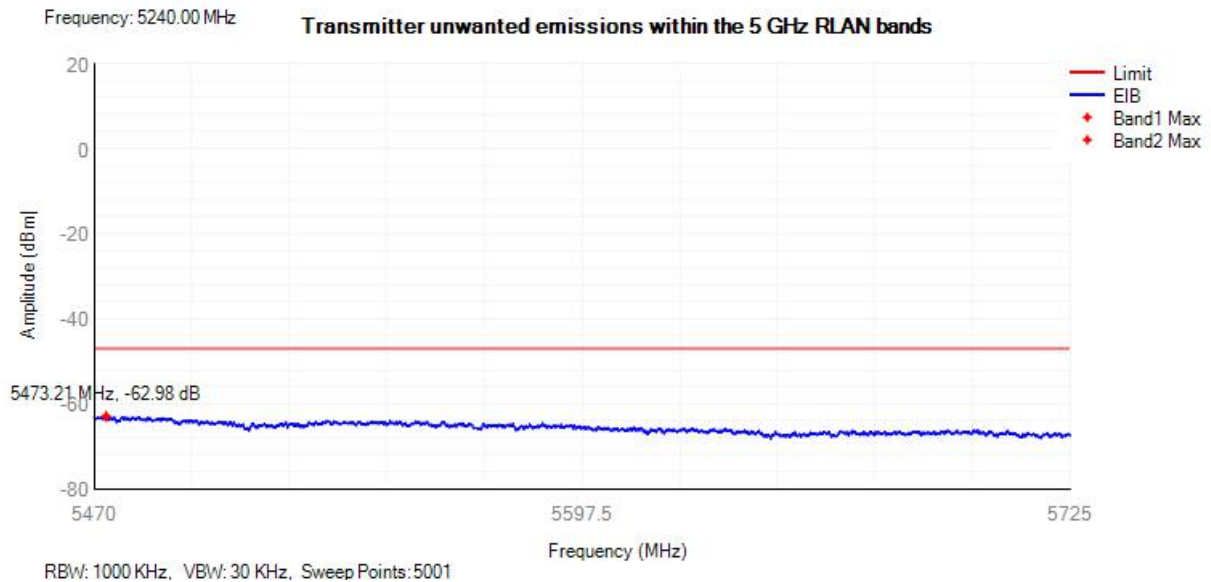
Tx. Emissions EIB NVNT ax20 5180MHz Sub Band2



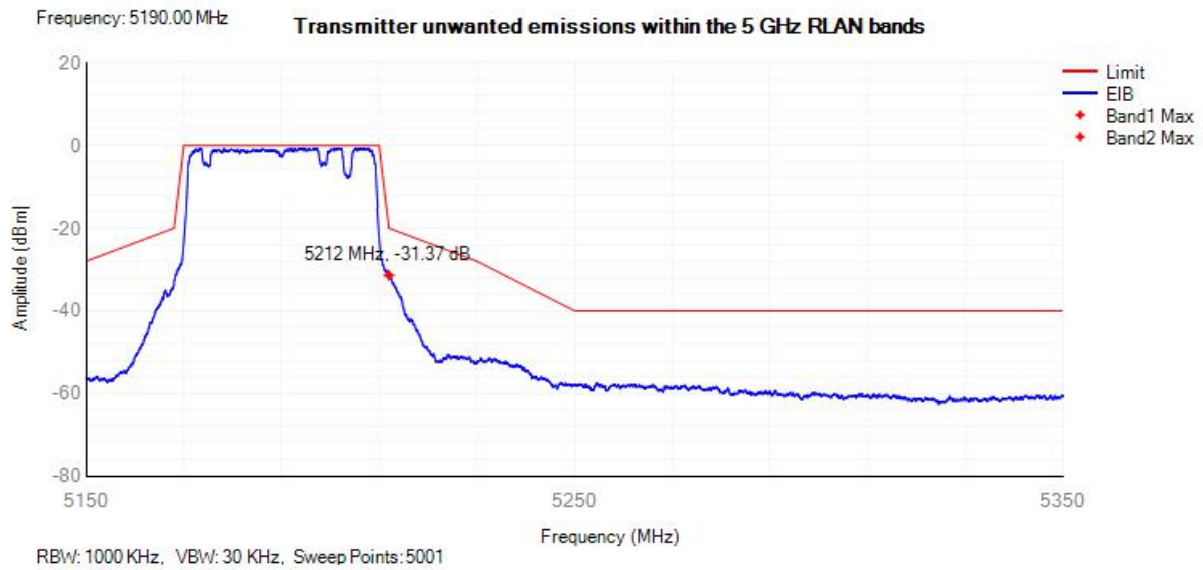
Tx. Emissions EIB NVNT ax20 5240MHz Sub Band1



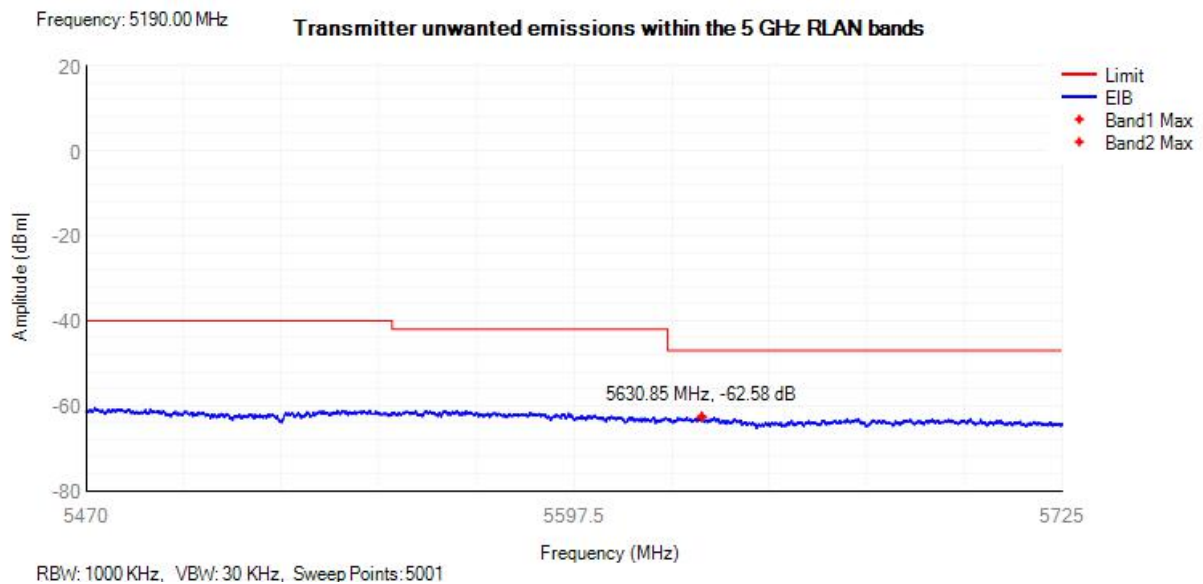
Tx. Emissions EIB NVNT ax20 5240MHz Sub Band2



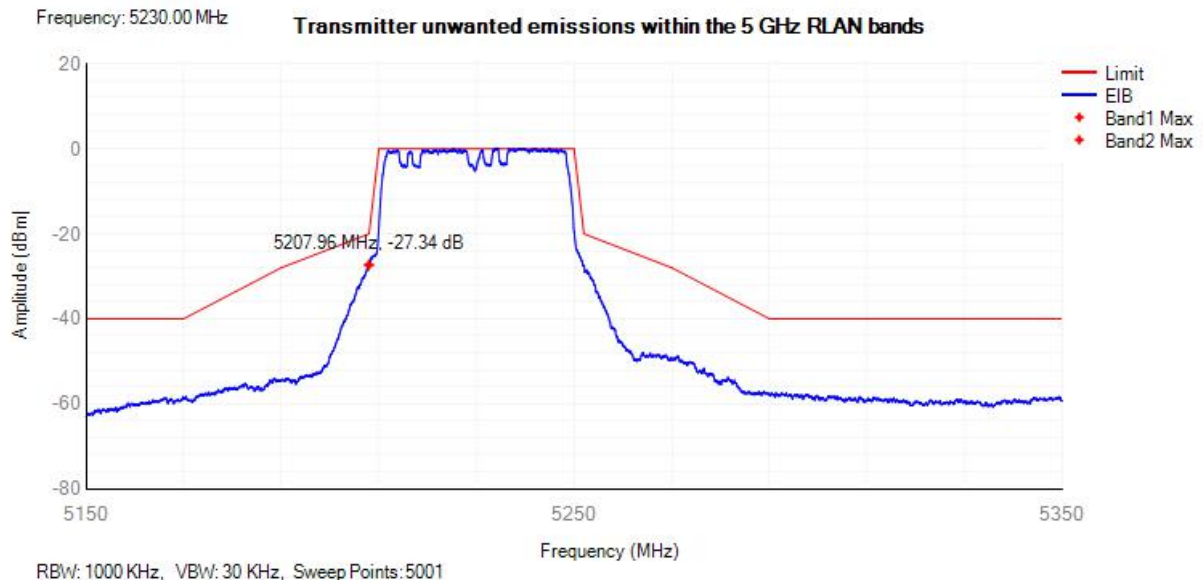
Tx. Emissions EIB NVNT ax40 5190MHz Sub Band1



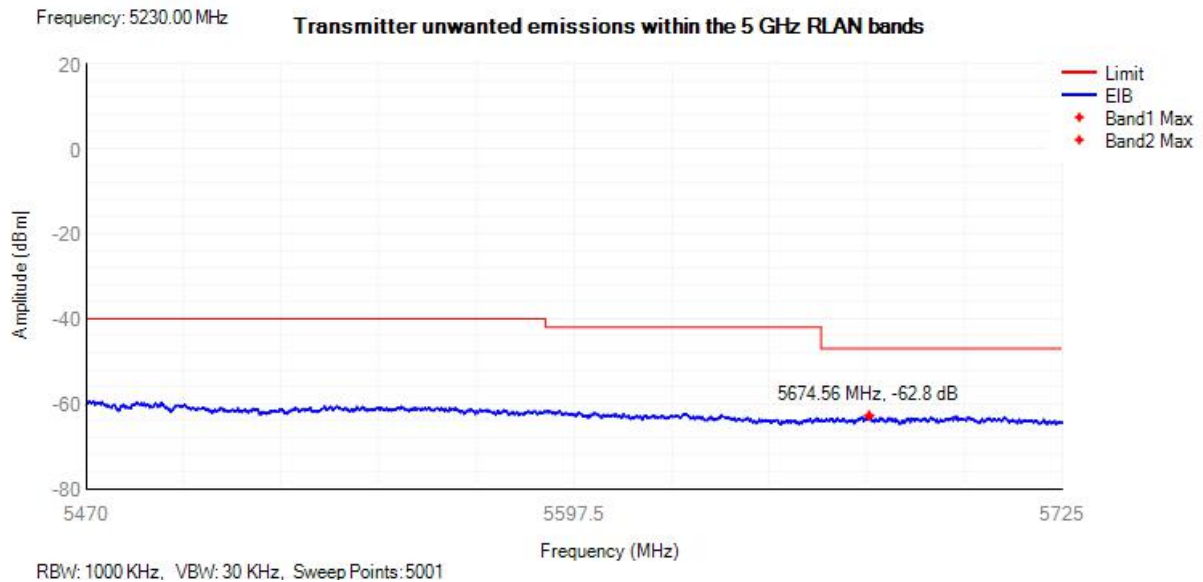
Tx. Emissions EIB NVNT ax40 5190MHz Sub Band2



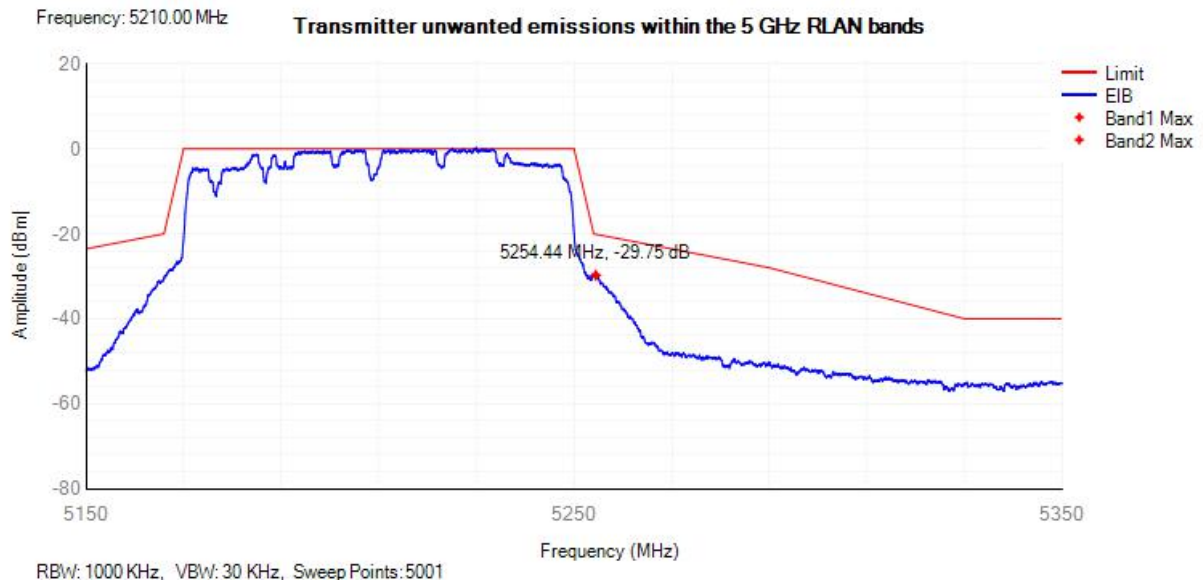
Tx. Emissions EIB NVNT ax40 5230MHz Sub Band1



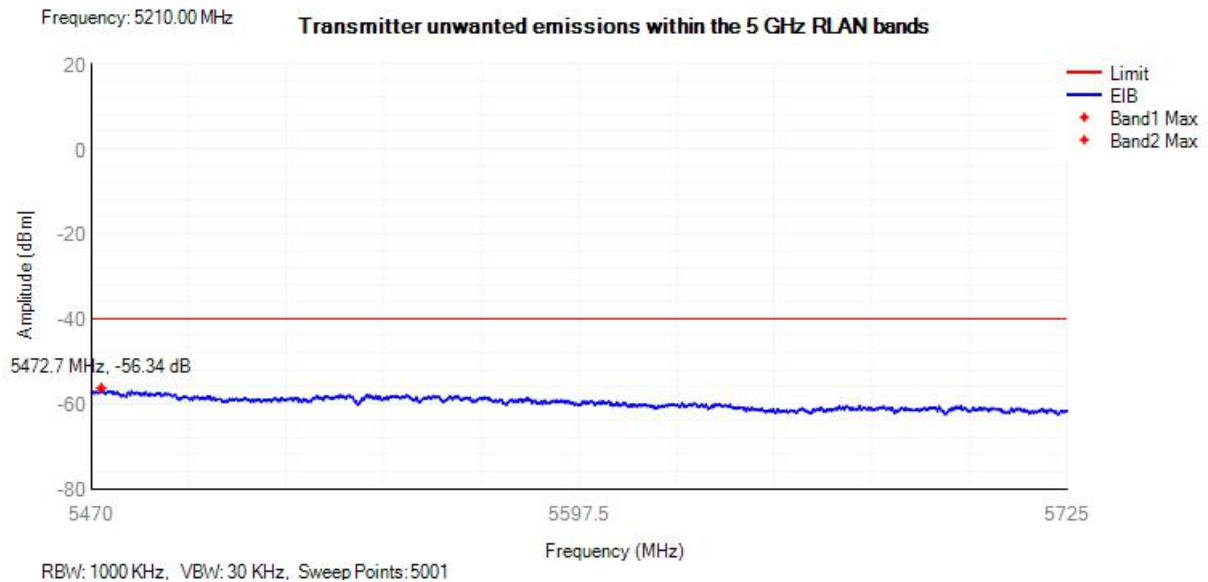
Tx. Emissions EIB NVNT ax40 5230MHz Sub Band2



Tx. Emissions EIB NVNT ax80 5210MHz Sub Band1



Tx. Emissions EIB NVNT ax80 5210MHz Sub Band2



Note: All test modes were tested, but only record the worst test result.

H.7 Receiver Spurious Emissions

The Worst Test Result For 802.11a					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
59.80	H	-81.65	-57.00	-24.65	PK
69.13	V	-73.20	-57.00	-16.20	PK
810.37	H	-72.74	-57.00	-15.74	PK
926.64	V	-73.01	-57.00	-16.01	PK
3501.10	H	-61.04	-47.00	-14.04	PK
3459.18	V	-63.31	-47.00	-16.31	PK
10360.05	H	-56.93	-47.00	-9.93	PK
10360.05	V	-58.22	-47.00	-11.22	PK

The Worst Test Result For 802.11n(20MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
58.74	H	-82.36	-57.00	-25.36	PK
64.69	V	-74.04	-57.00	-17.04	PK
811.86	H	-74.72	-57.00	-17.72	PK
923.13	V	-74.32	-57.00	-17.32	PK
3500.44	H	-63.03	-47.00	-16.03	PK
3475.35	V	-64.58	-47.00	-17.58	PK
10360.08	H	-58.58	-47.00	-11.58	PK
10360.09	V	-59.30	-47.00	-12.30	PK

The Worst Test Result For 802.11ac(20MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
57.85	H	-82.36	-57.00	-25.36	PK
64.53	V	-74.17	-57.00	-17.17	PK
811.57	H	-74.41	-57.00	-17.41	PK
922.79	V	-73.68	-57.00	-16.68	PK
3491.64	H	-62.99	-47.00	-15.99	PK
3488.44	V	-64.18	-47.00	-17.18	PK
10360.10	H	-57.87	-47.00	-10.87	PK
10360.01	V	-59.62	-47.00	-12.62	PK

The Worst Test Result For 802.11ax(20MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 36 (5180MHz)					
152.54	H	-76.45	-57.00	-19.45	PK
127.74	V	-77.54	-57.00	-20.54	PK
772.30	H	-71.35	-57.00	-14.35	PK
875.54	V	-72.67	-57.00	-15.67	PK
3491.64	H	-64.34	-47.00	-17.34	PK
3488.44	V	-61.34	-47.00	-14.34	PK
10360.10	H	-58.12	-47.00	-11.12	PK
10360.01	V	-59.60	-47.00	-12.60	PK

The Worst Test Result For 802.11n(40MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
58.89	H	-82.63	-57.00	-25.63	PK
68.56	V	-74.49	-57.00	-17.49	PK
812.72	H	-74.54	-57.00	-17.54	PK
923.17	V	-74.20	-57.00	-17.20	PK
3488.90	H	-63.29	-47.00	-16.29	PK
3480.13	V	-63.49	-47.00	-16.49	PK
10380.00	H	-58.37	-47.00	-11.37	PK
10380.09	V	-59.81	-47.00	-12.81	PK

The Worst Test Result For 802.11ac(40MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
56.65	H	-82.35	-57.00	-25.35	PK
67.11	V	-74.11	-57.00	-17.11	PK
808.84	H	-74.45	-57.00	-17.45	PK
922.30	V	-74.10	-57.00	-17.10	PK
3486.71	H	-63.19	-47.00	-16.19	PK
3459.55	V	-63.05	-47.00	-16.05	PK
10380.10	H	-59.01	-47.00	-12.01	PK
10380.01	V	-59.85	-47.00	-12.85	PK

The Worst Test Result For 802.11ax(40MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 38 (5190MHz)					
241.57	H	-78.54	-57.00	-21.54	PK
135.71	V	-72.35	-57.00	-15.35	PK
808.25	H	-71.40	-57.00	-14.40	PK
923.95	V	-72.19	-57.00	-15.19	PK
3486.71	H	-60.54	-47.00	-13.54	PK
3459.55	V	-58.61	-47.00	-11.61	PK
10380.10	H	-57.41	-47.00	-10.41	PK
10380.01	V	-56.54	-47.00	-9.54	PK

The Worst Test Result For 802.11ac(80MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 42 (5210MHz)					
58.71	H	-82.23	-57.00	-25.23	PK
67.39	V	-73.69	-57.00	-16.69	PK
808.38	H	-74.43	-57.00	-17.43	PK
922.83	V	-74.48	-57.00	-17.48	PK
3552.68	H	-63.41	-47.00	-16.41	PK
3528.99	V	-63.15	-47.00	-16.15	PK
10520.06	H	-58.30	-47.00	-11.30	PK
10520.03	V	-59.32	-47.00	-12.32	PK

The Worst Test Result For 802.11ax(80MHz)					
Frequency (MHz)	Polarization (H/V)	Measure Level (dBm)	Limit (dBm)	Margin (dB)	Detector
Channel 42 (5210MHz)					
124.54	H	-72.24	-57.00	-15.24	PK
163.57	V	-70.31	-57.00	-13.31	PK
824.71	H	-71.39	-57.00	-14.39	PK
920.94	V	-68.53	-57.00	-11.53	PK
3552.68	H	-62.01	-47.00	-15.01	PK
3528.99	V	-61.15	-47.00	-14.15	PK
10520.06	H	-59.01	-47.00	-12.01	PK
10520.03	V	-59.89	-47.00	-12.89	PK

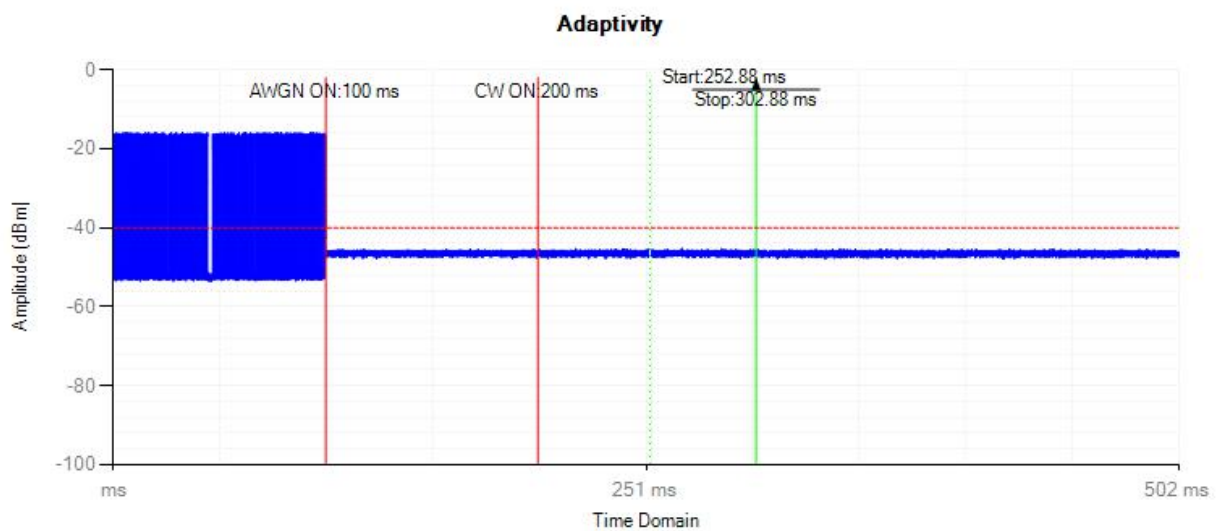
Note: All test modes were tested, but only record the worst test result.

H.8 Adaptivity

According to Table 11 in clause 5.3.2 of ETSI EN 301 893 V2.1.1(2017-05), for adaptivity, testing shall be performed using the highest nominal channel bandwidth. So this test item is only performed on 802.11ac (80MHz; Channel 42: 5210MHz, ANT0)

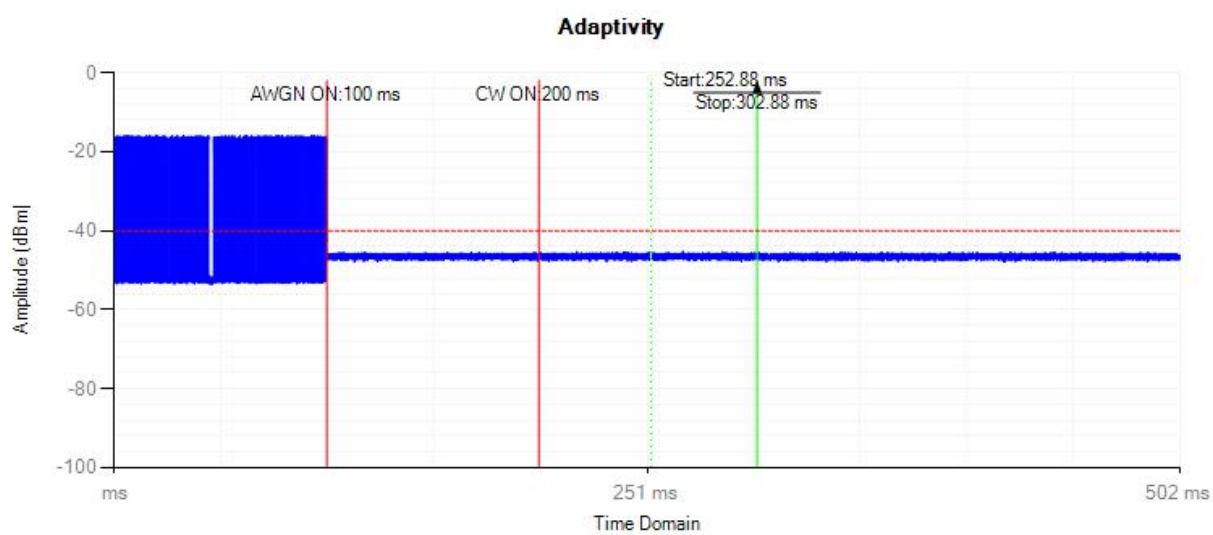
The Worst Test Mode	802.11ac(80MHz; Channel 42: 5210MHz)
AWGN Interference Level (dBm)	-64.99
Interference Start Time (ms)	100
Stop time after interfering signal(ms)	100
Suggest q Level	4
Max. COT (ms)	1.34
Pulse width (ms)	0
Duty Cycle (%)	0

Test plot For 802.11ac(80MHz; Channel 42: 5210MHz):



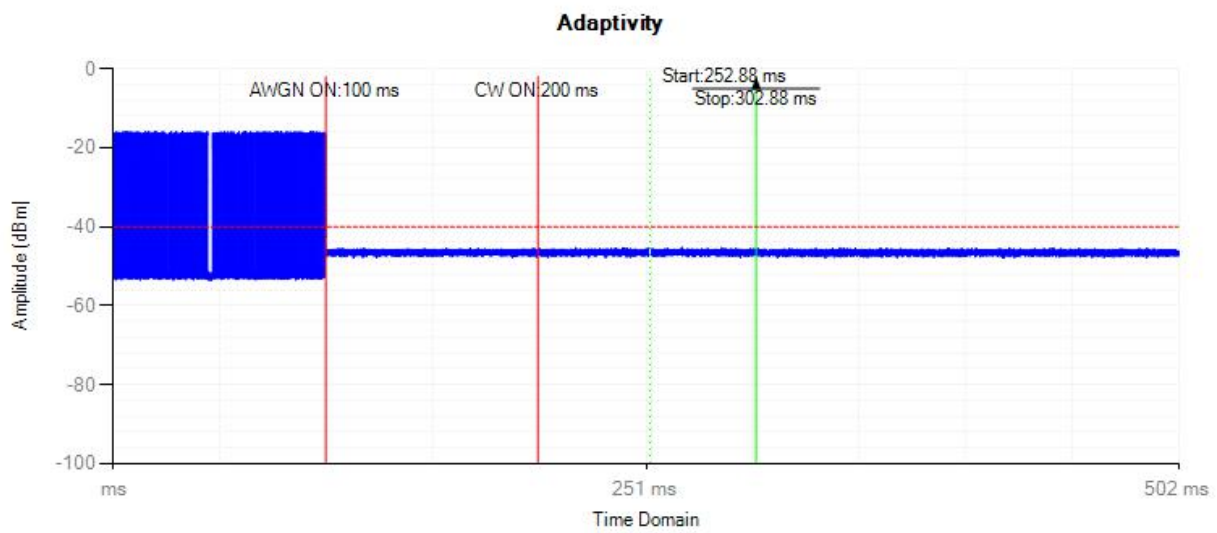
The Worst Test Mode	802.11ac(80MHz; Channel 42: 5210MHz)
OFDM Interference Level (dBm)	-64.99
Interference Start Time (ms)	100
Stop time after interfering signal(ms)	100
Suggest q Level	4
Max. COT (ms)	2.16
Pulse width (ms)	0
Duty Cycle (%)	0

Test plot For 802.11ac(80MHz; Channel 42: 5210MHz):



The Worst Test Mode	802.11ac(80MHz; Channel 42: 5210MHz)
LTE Interference Level (dBm)	-64.99
Interference Start Time (ms)	100
Stop time after interfering signal(ms)	100
Suggest q Level	4
Max. COT (ms)	3.10
Pulse width (ms)	0
Duty Cycle (%)	0

Test plot For 802.11ac(80MHz; Channel 42: 5210MHz):



Note: All test modes were tested, but only record the worst test result.

H.9 Receiver Blocking

ANT0

Wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm)		Type of blocking signal	PER(%)		Test Result
		Test Value	Limit		Test Value	Limit	
Pmin + 6 dB	5100	-57	≥ -59	CW	8.21	10	Pass
	4900	-52	≥ -53	CW	7.56	10	Pass
	5000	-50	≥ -53	CW	7.64	10	Pass
	5975	-49	≥ -53	CW	7.17	10	Pass

ANT1

Wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm)		Type of blocking signal	PER(%)		Test Result
		Test Value	Limit		Test Value	Limit	
Pmin + 6 dB	5100	-56	≥ -59	CW	7.90	10	Pass
	4900	-51	≥ -53	CW	7.54	10	Pass
	5000	-49	≥ -53	CW	7.58	10	Pass
	5975	-50	≥ -53	CW	7.18	10	Pass

Note: All test modes were tested, but only record the worst test result (802.11a).