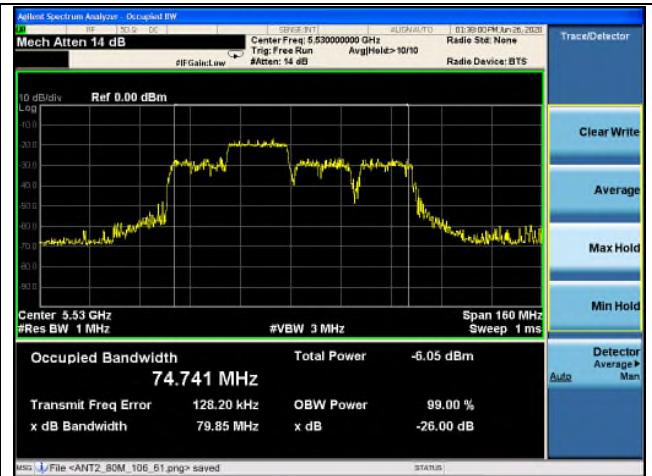
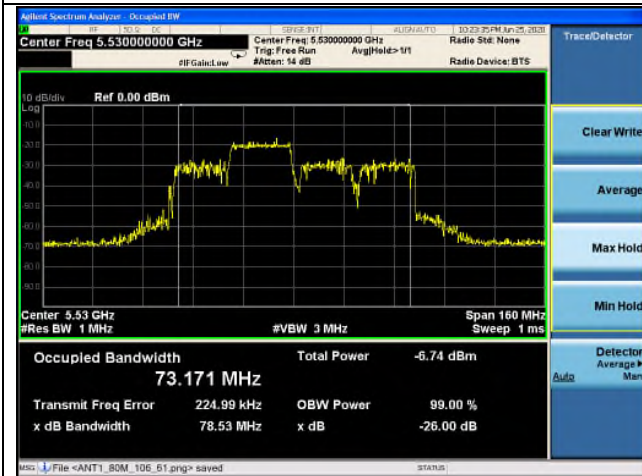


802.11ax_HE80 Band 2C_242T_62 RU

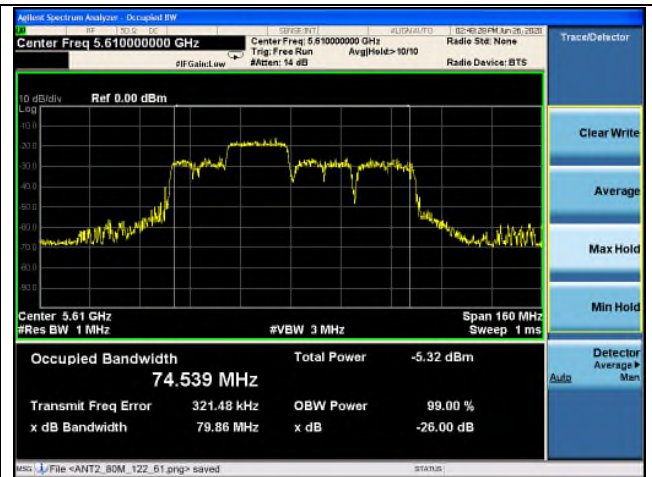
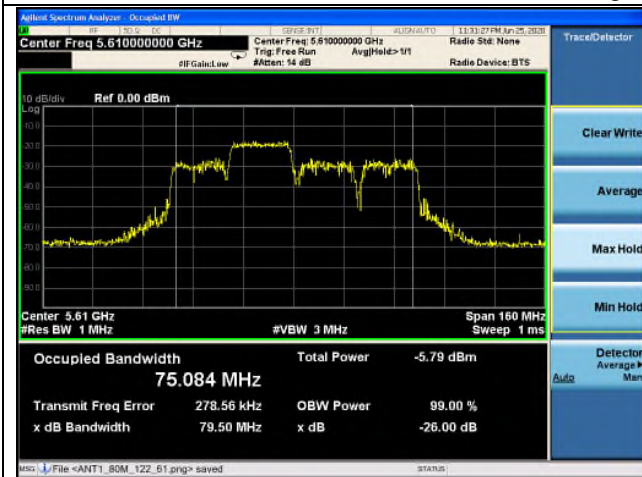
Ant.1

Ant.2

Low channel



High channel

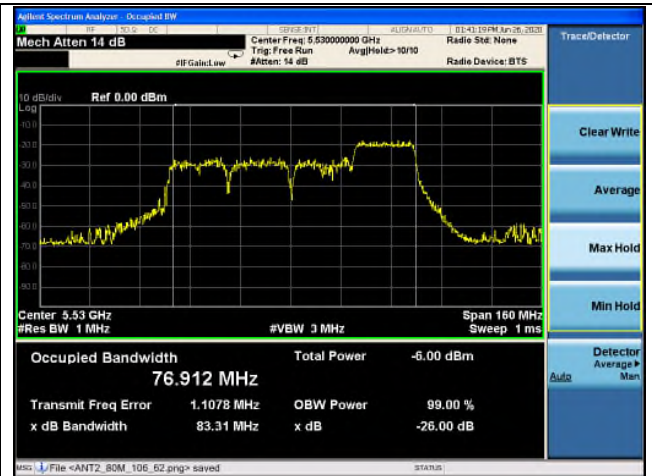
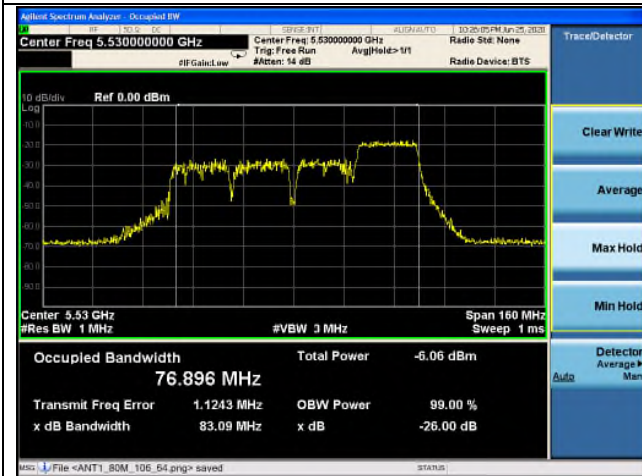


802.11ax_HE80 Band 2C_242T_64 RU

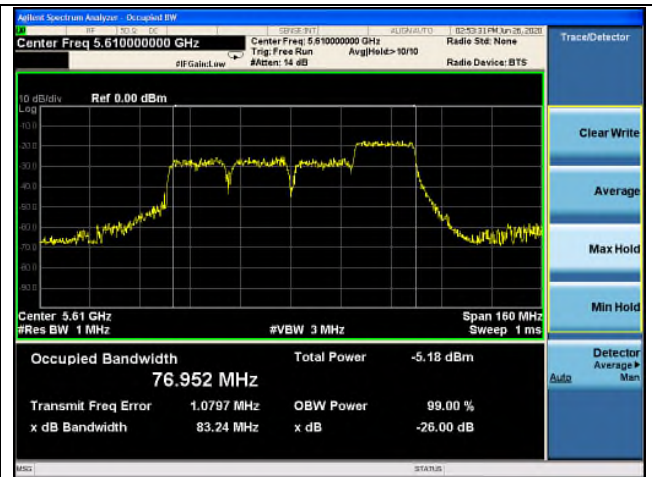
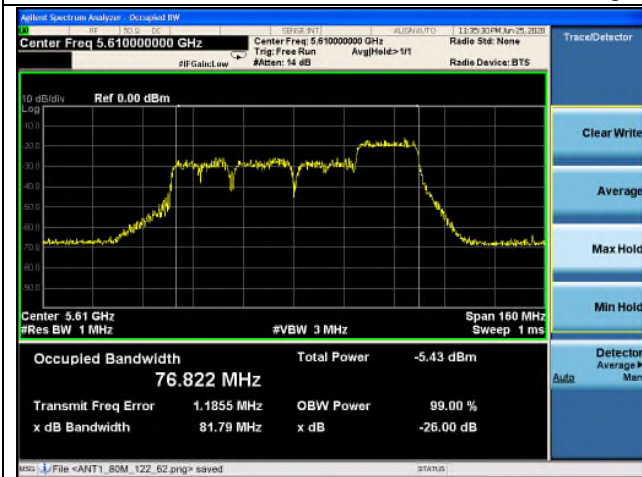
Ant.1

Ant.2

Low channel



High channel

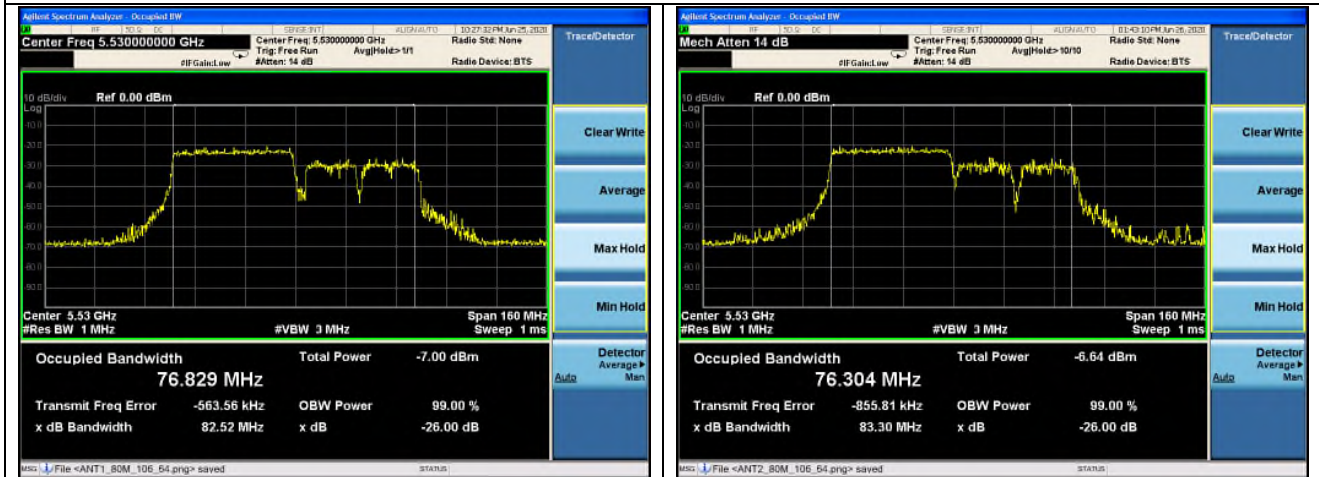


802.11ax_HE80 Band 2C_484T_65 RU

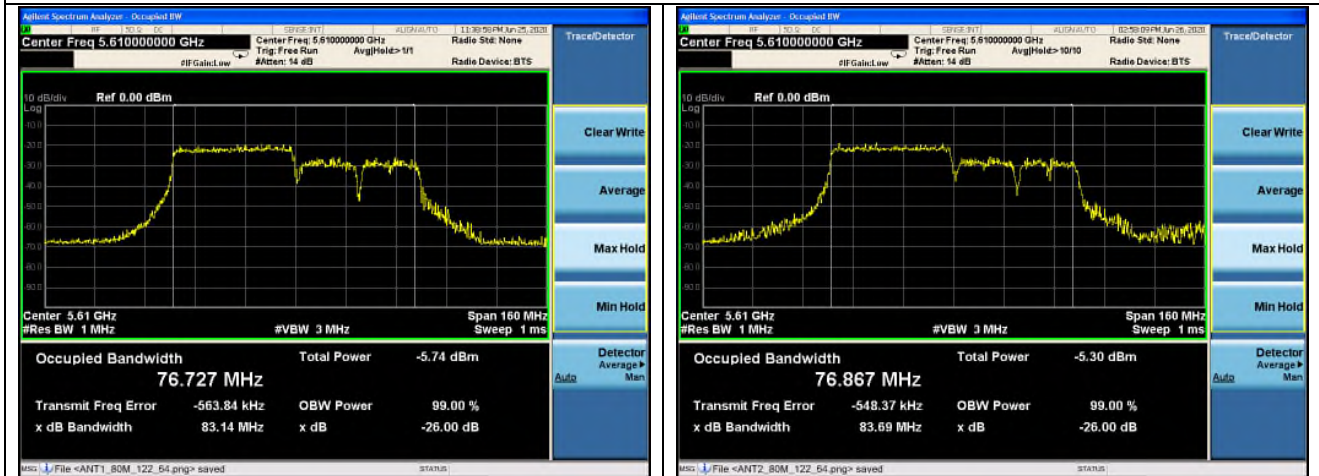
Ant.1

Ant.2

Low channel



High channel

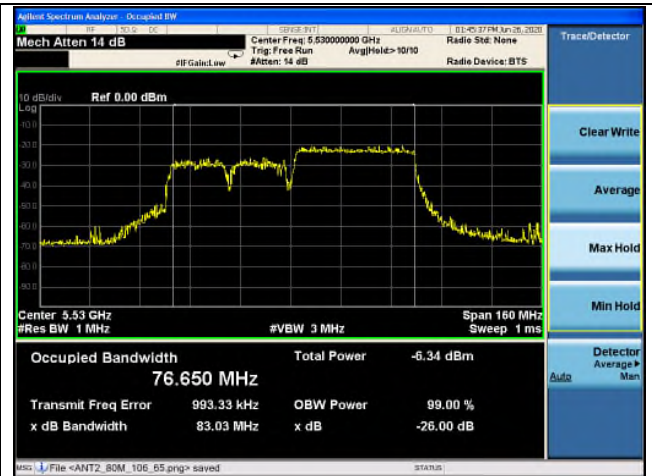
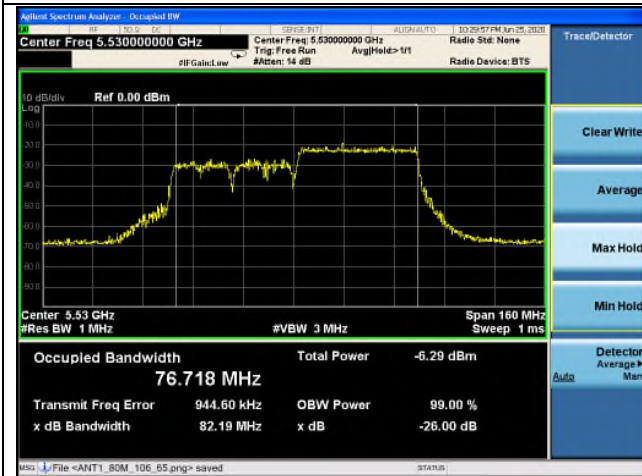


802.11ax_HE80 Band 2C_484T_66 RU

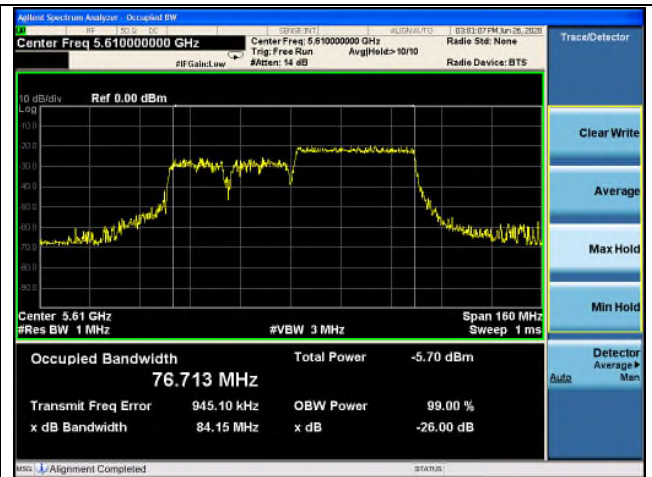
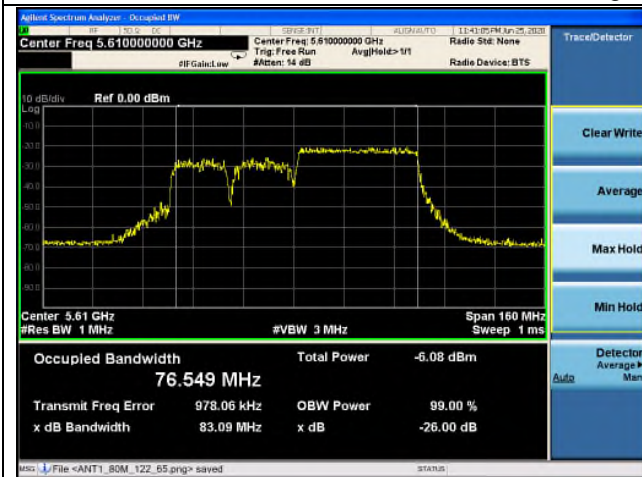
Ant.1

Ant.2

Low channel



High channel

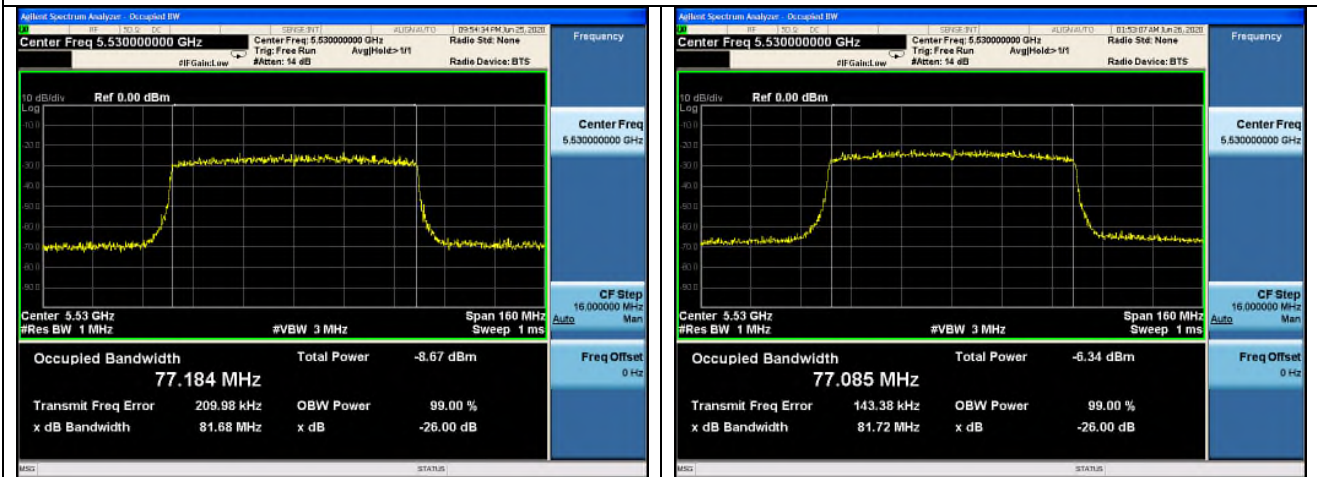


802.11ax_HE80 Band 2C_SU

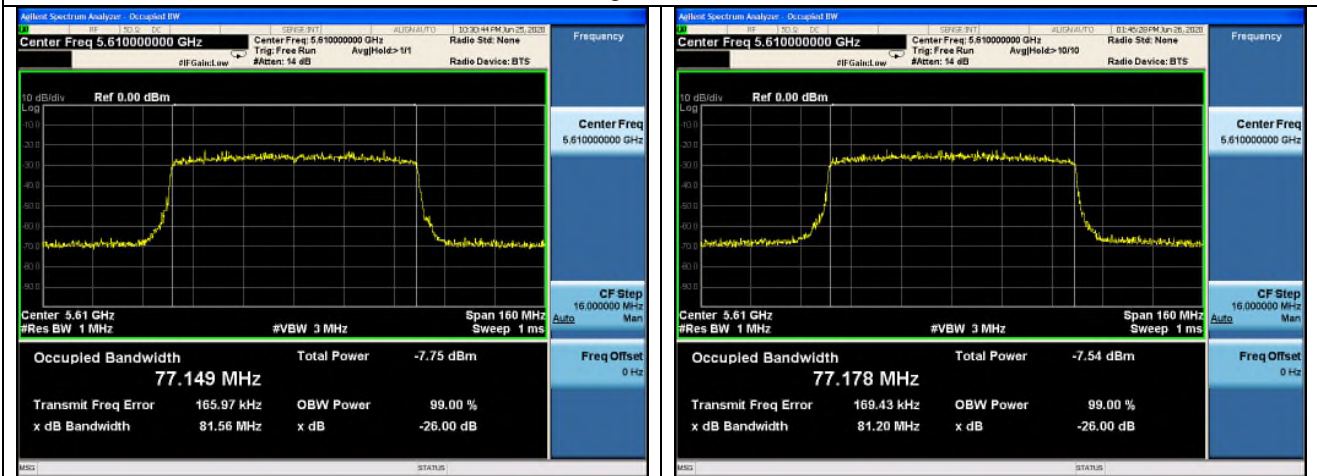
Ant.1

Ant.2

Low channel



High channel

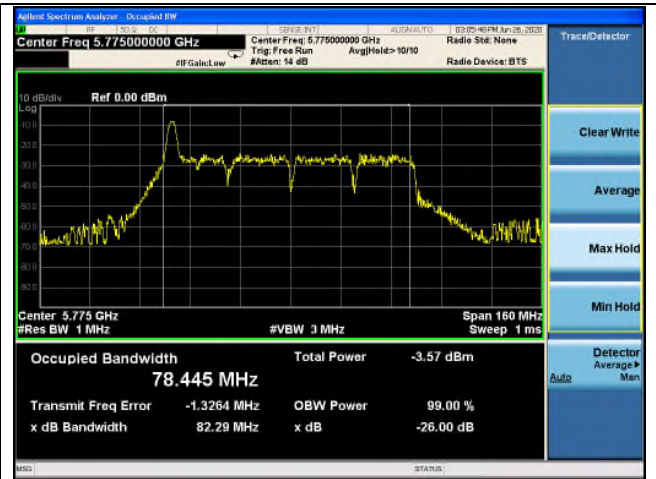
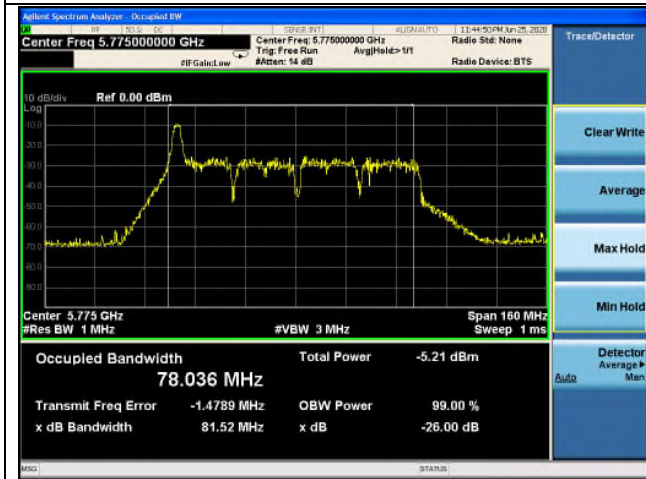


802.11ax_HE80 Band 3_26T_0 RU

Ant.1

Ant.2

Middle channel

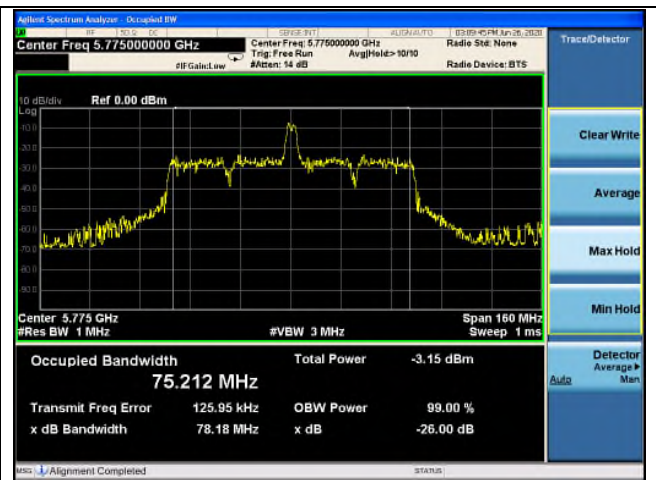
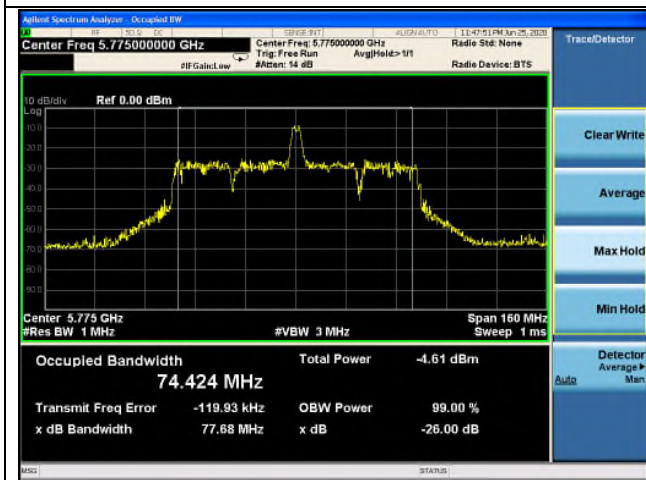


802.11ax_HE80 Band 3_26T_18 RU

Ant.1

Ant.2

Middle channel

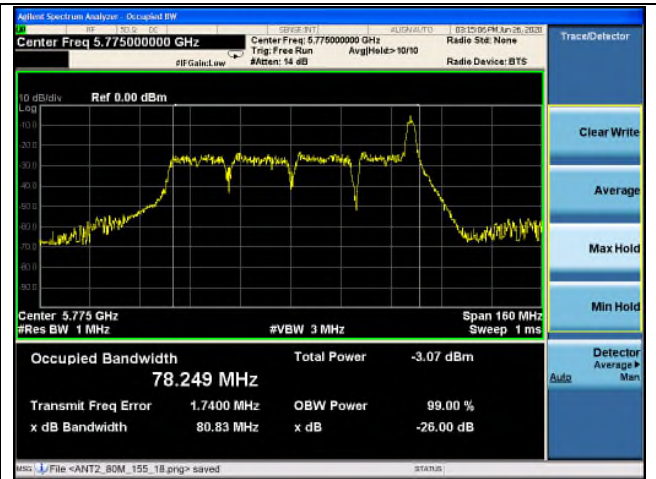
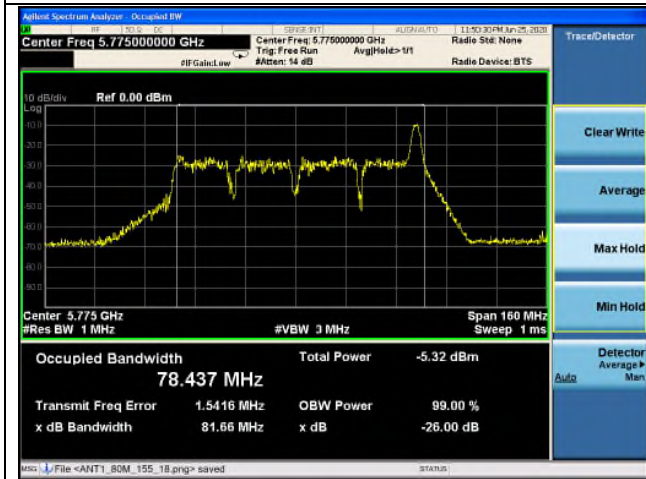


802.11ax_HE80 Band 3)_26T_36 RU

Ant.1

Ant.2

Middle channel

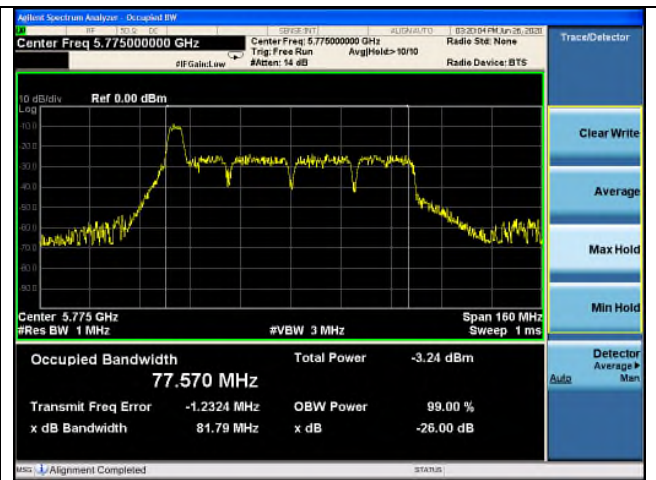
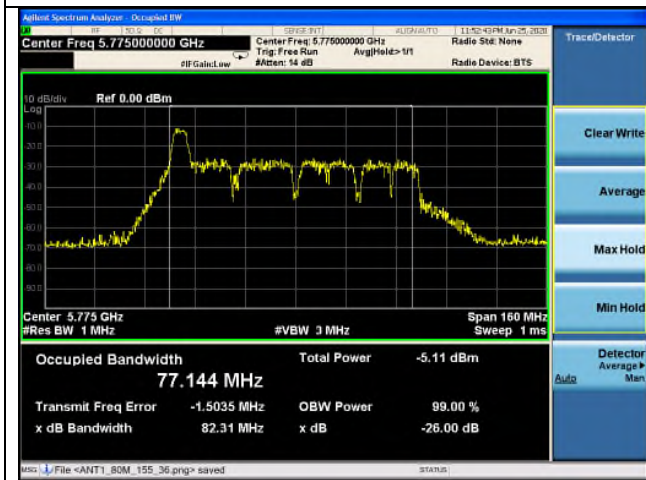


802.11ax_HE80 Band 3_52T_37 RU

Ant.1

Ant.2

Middle channel

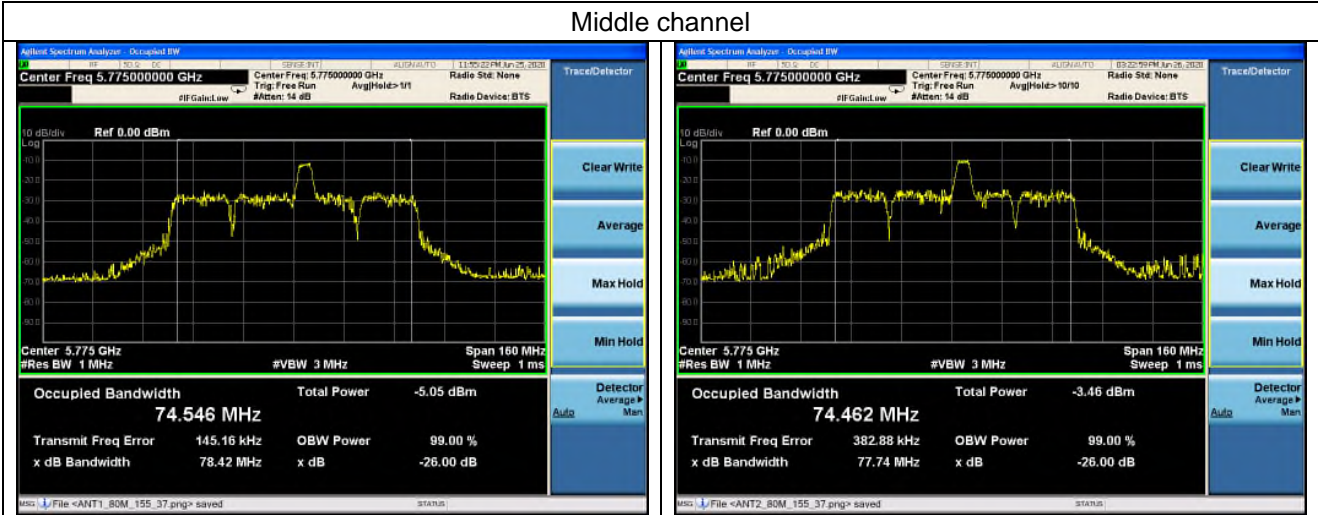


802.11ax_HE80 Band 3_52T_45 RU

Ant.1

Ant.2

Middle channel

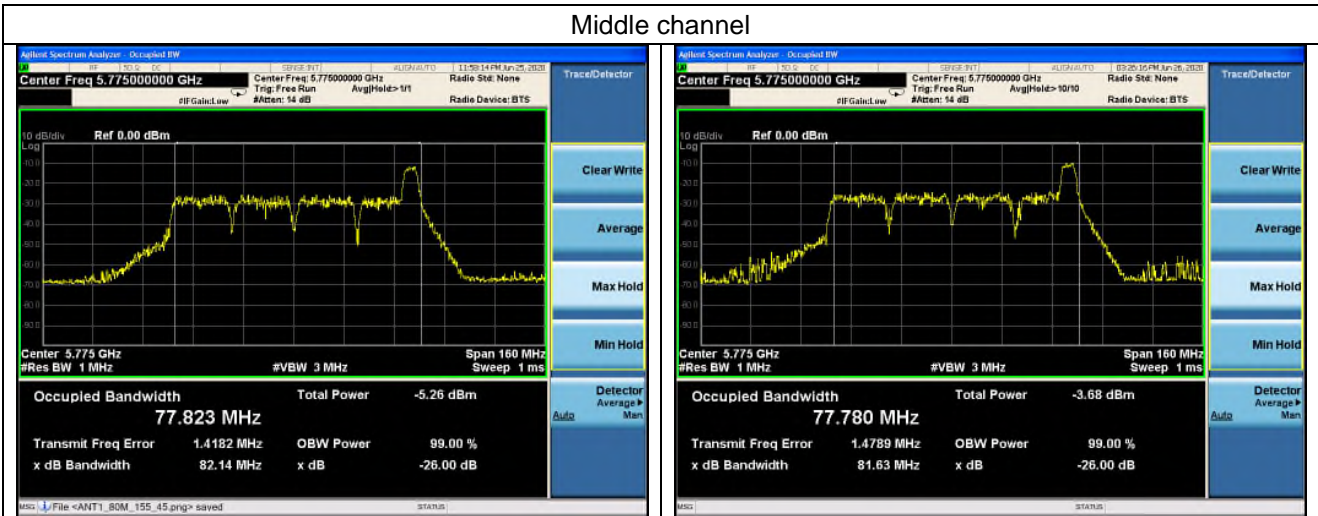


802.11ax_HE80 Band 3_52T_52 RU

Ant.1

Ant.2

Middle channel

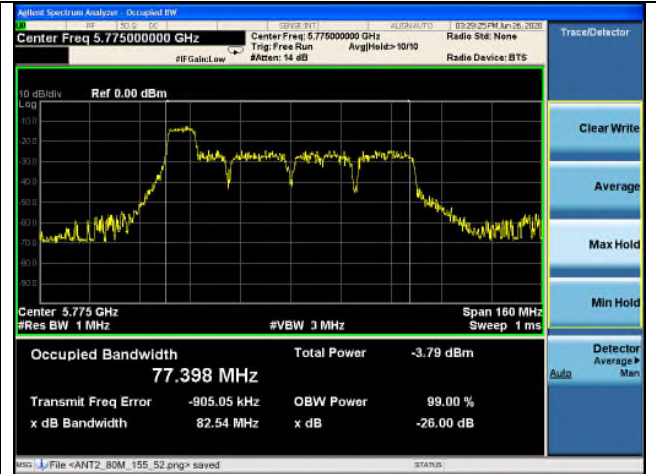
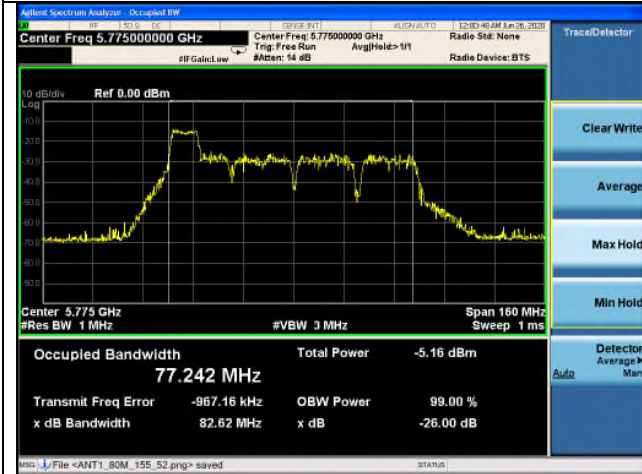


802.11ax_HE80 Band 3_106T_53 RU

Ant.1

Ant.2

Middle channel

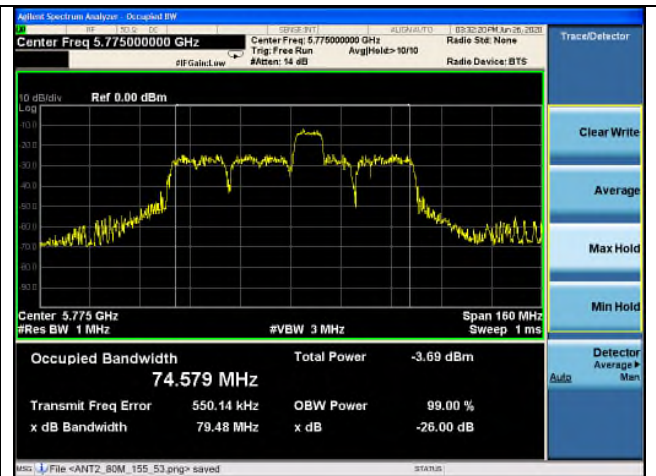
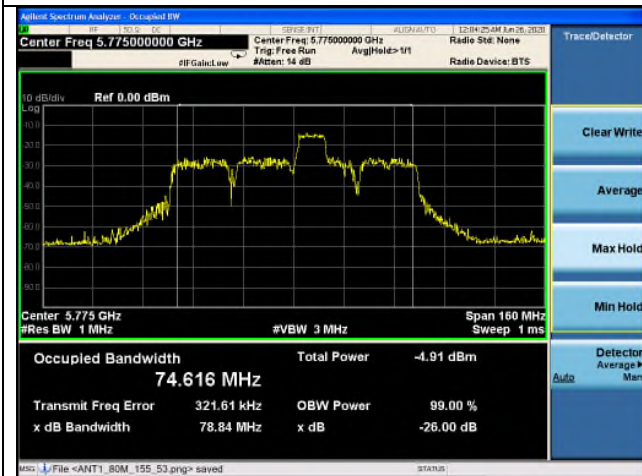


802.11ax_HE80 Band 3_106T_57 RU

Ant.1

Ant.2

Middle channel

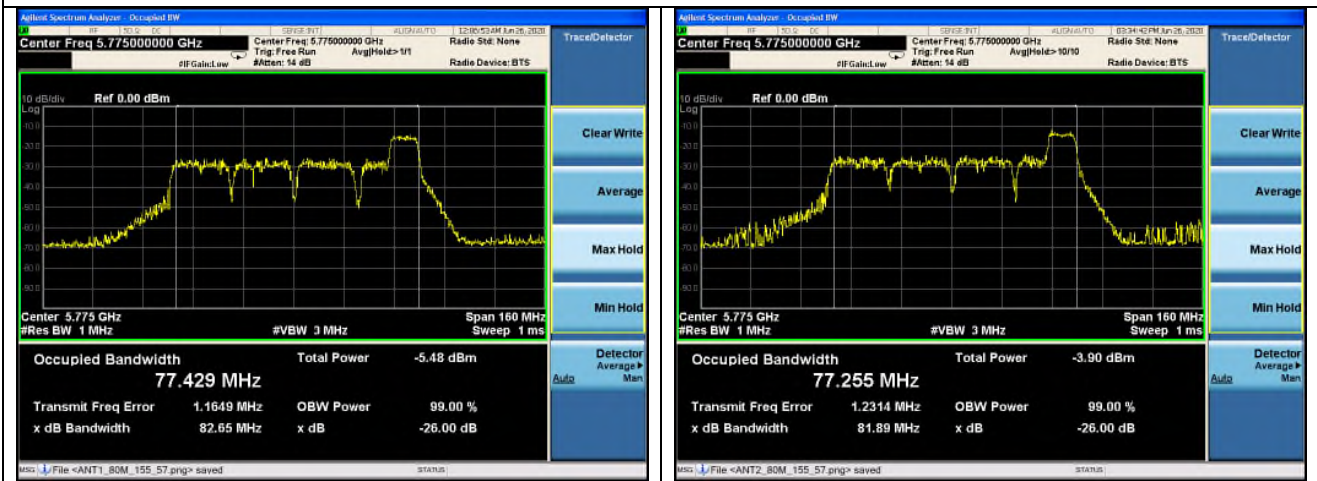


802.11ax_HE80 Band 3_106T_60 RU

Ant.1

Ant.2

Middle channel

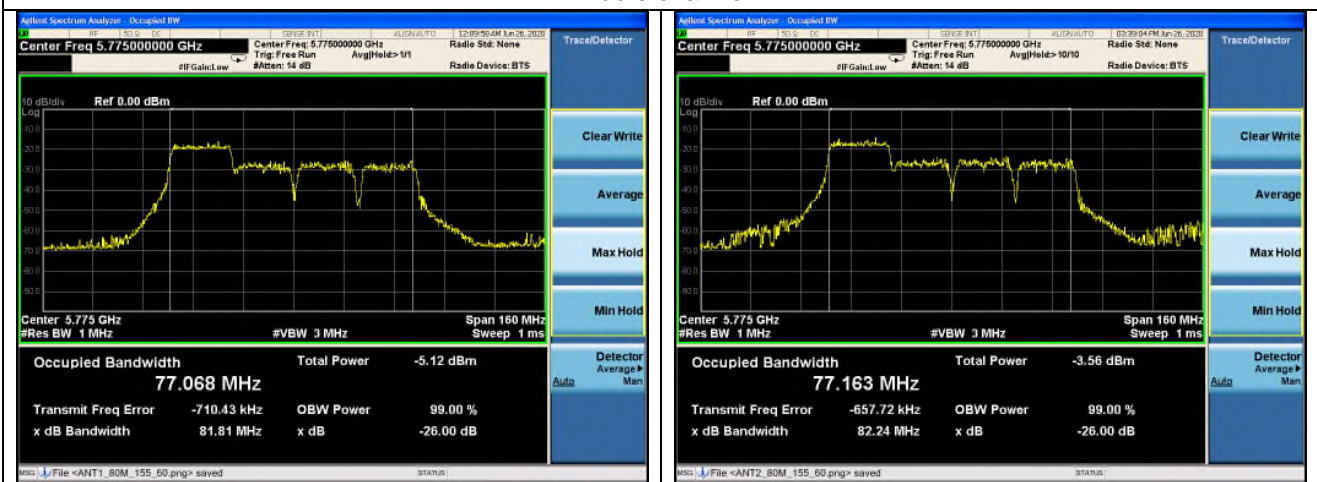


802.11ax_HE80 Band 3_242T_61 RU

Ant.1

Ant.2

Middle channel

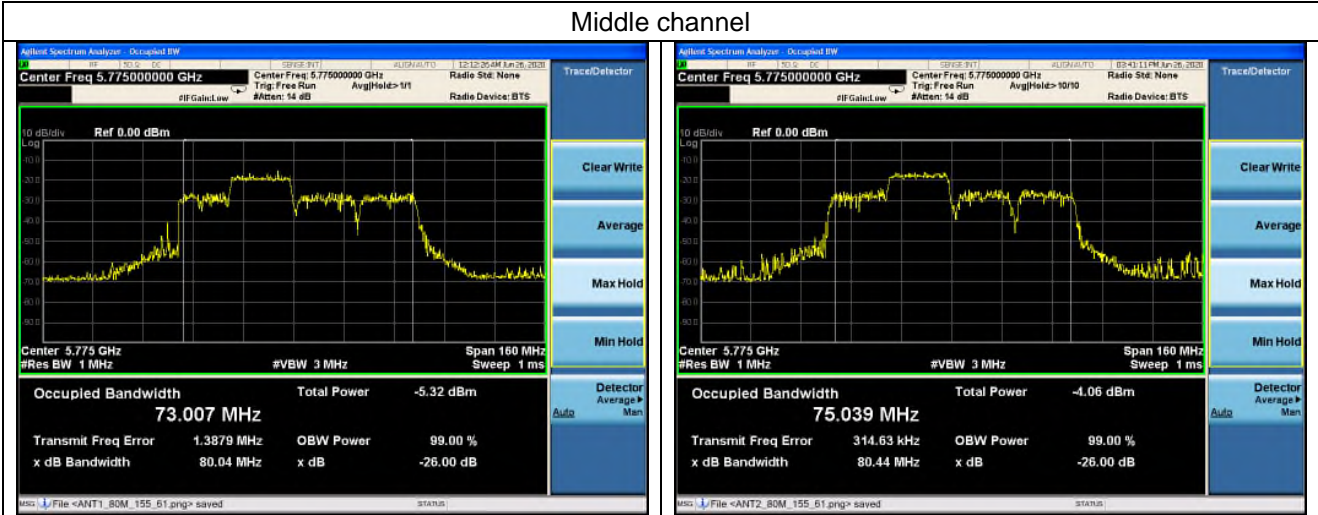


802.11ax_HE80 Band 3_242T_62 RU

Ant.1

Ant.2

Middle channel

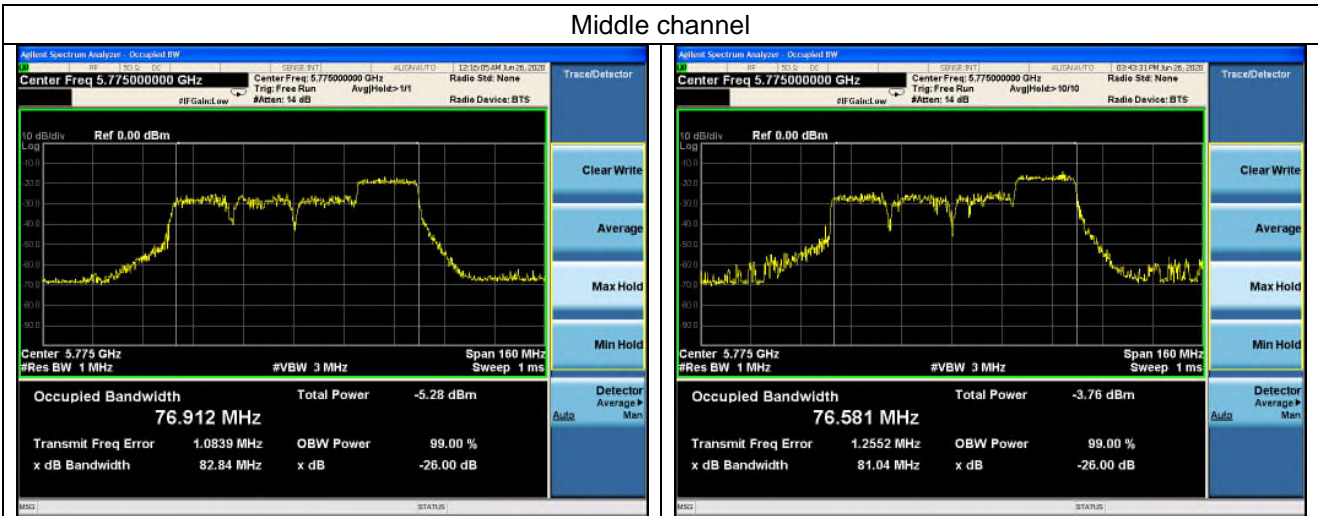


802.11ax_HE80 Band 3_242T_64 RU

Ant.1

Ant.2

Middle channel

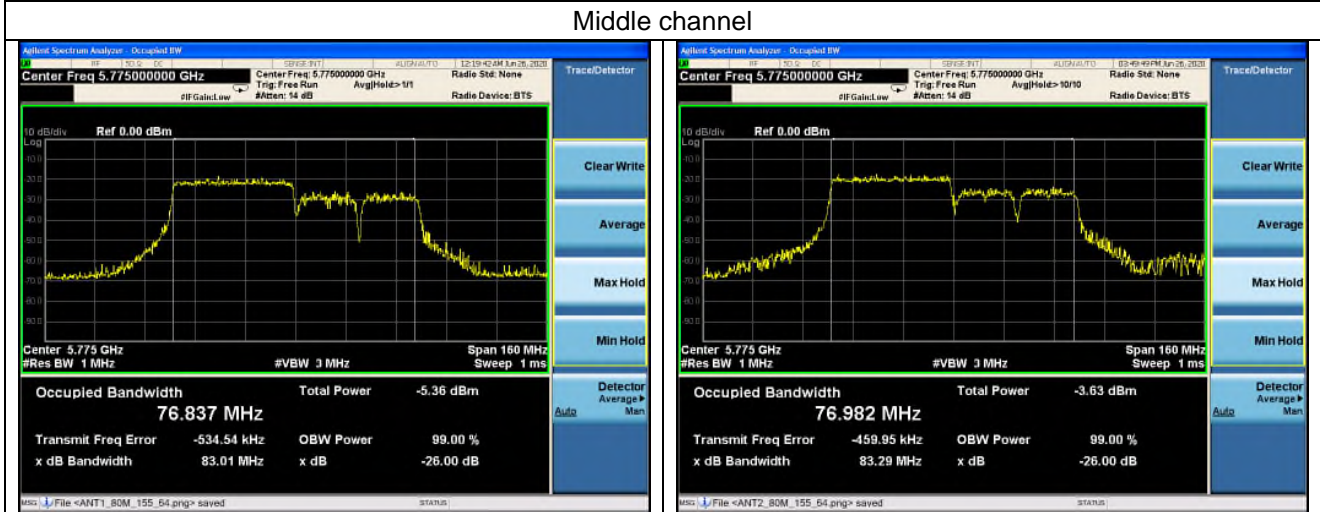


802.11ax_HE80 Band 3_484T_65 RU

Ant.1

Ant.2

Middle channel

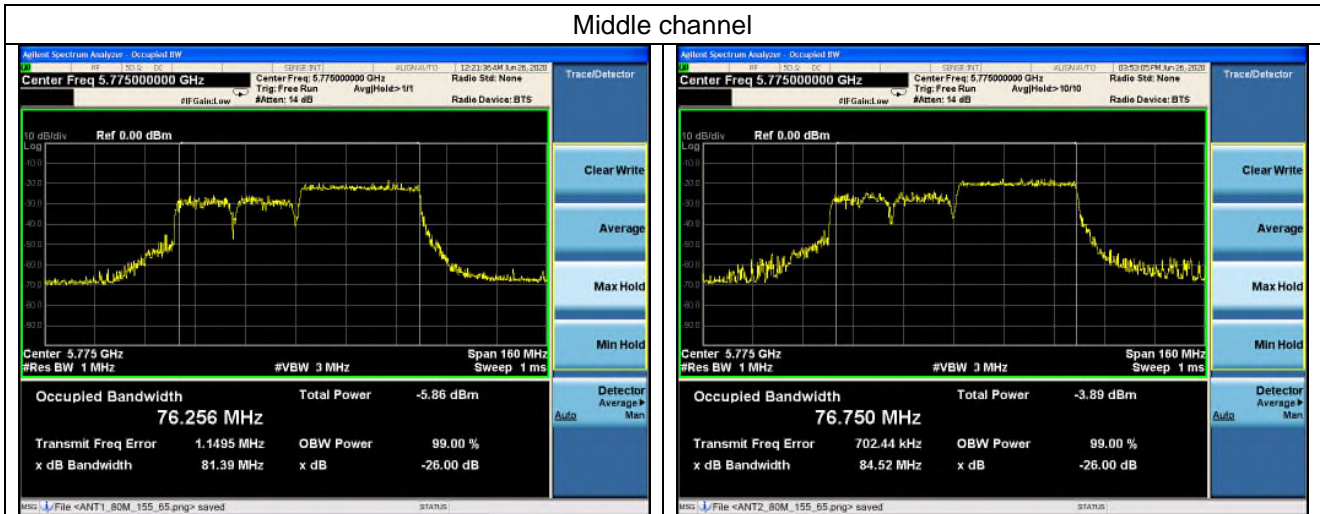


802.11ax_HE80 Band 3_484T_66 RU

Ant.1

Ant.2

Middle channel

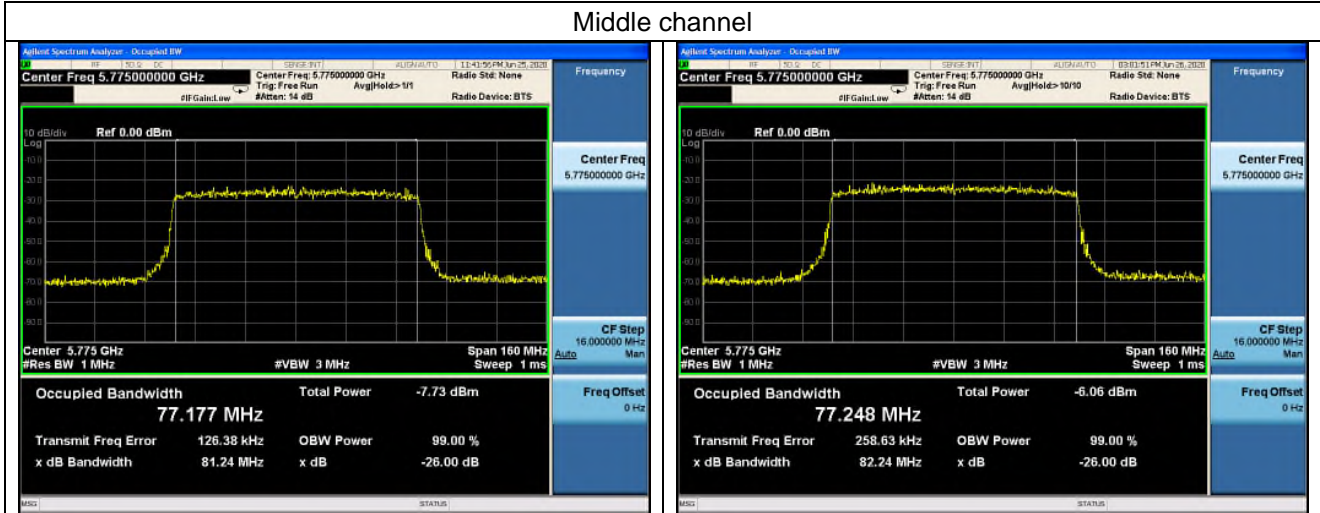


802.11ax_HE80 Band 3_SU

Ant.1

Ant.2

Middle channel

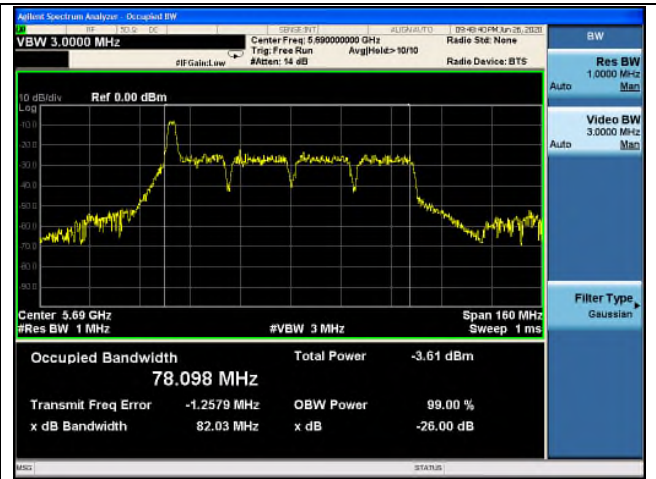
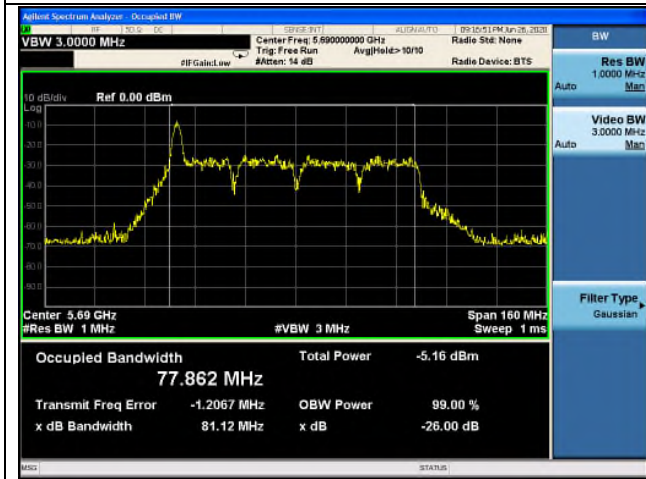


802.11ax_HE80 Band 2C_26T_0 RU

Ant.1

Ant.2

Straddle channel

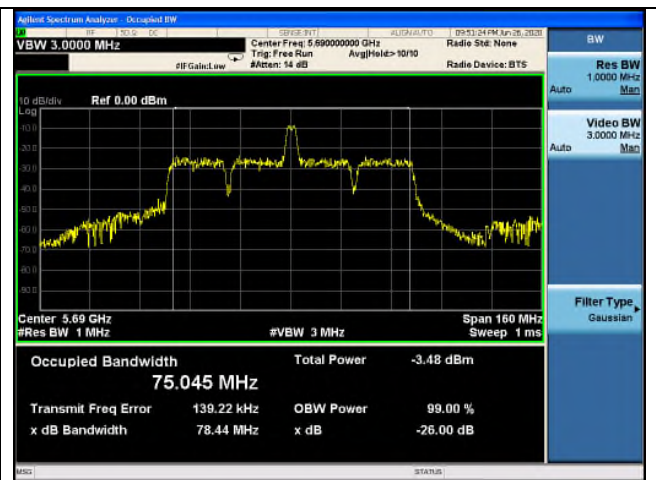
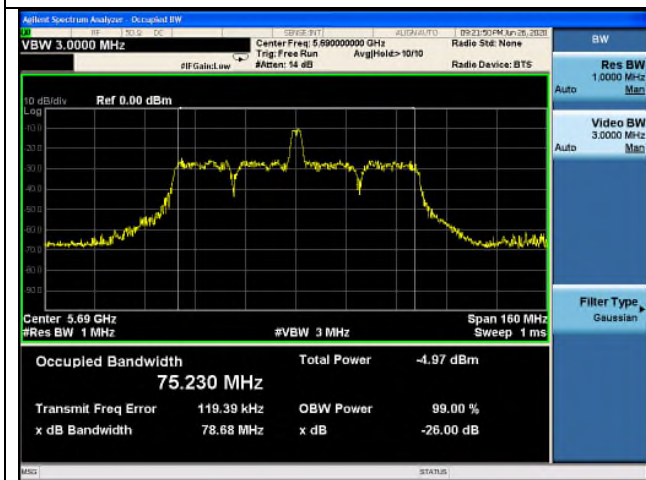


802.11ax_HE80 Band 2C_26T_18 RU

Ant.1

Ant.2

Straddle channel

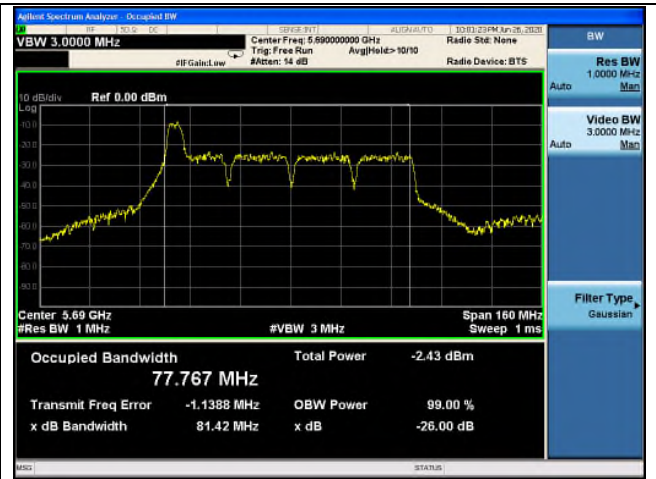
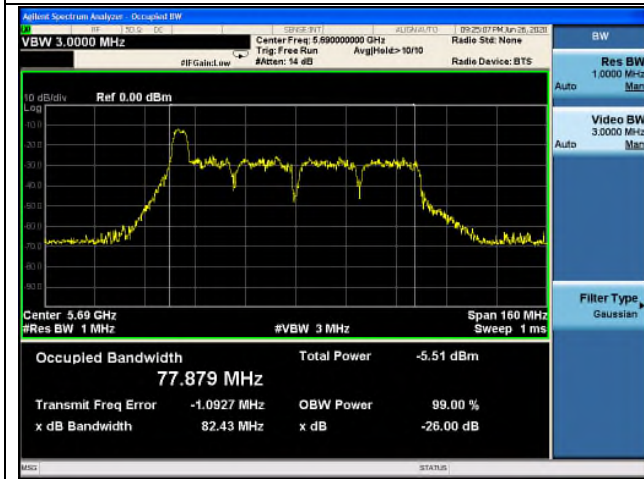


802.11ax_HE80 Band 2C_52T_37 RU

Ant.1

Ant.2

Straddle channel

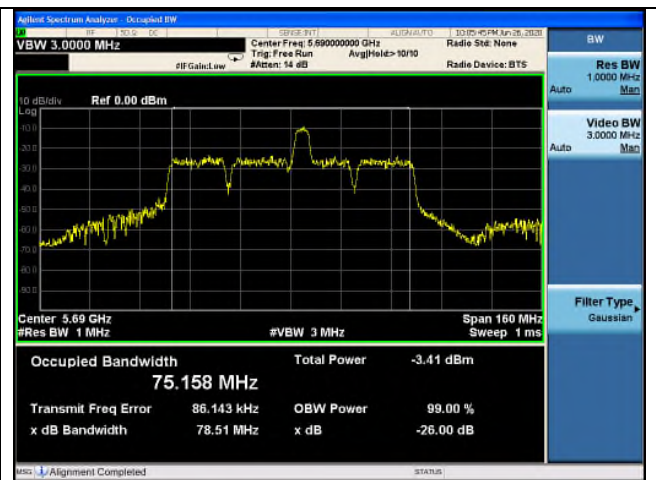
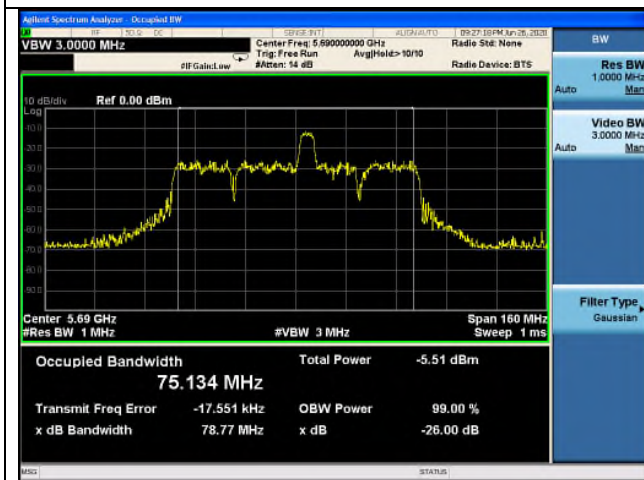


802.11ax_HE80 Band 2C_52T_45 RU

Ant.1

Ant.2

Straddle channel

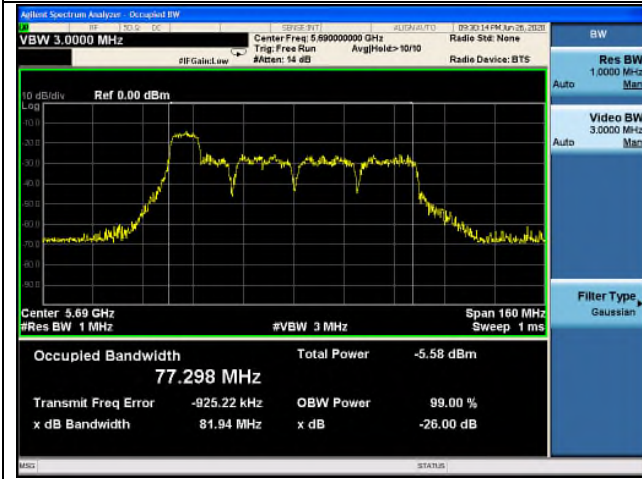


802.11ax_HE80 Band 2C_106T_53 RU

Ant.1

Ant.2

Straddle channel

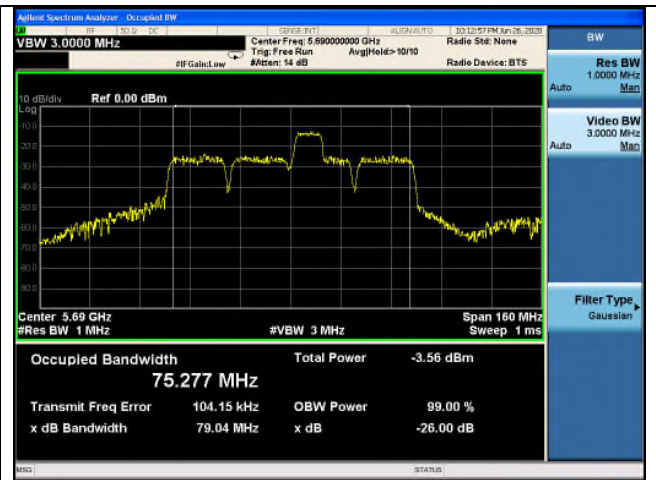
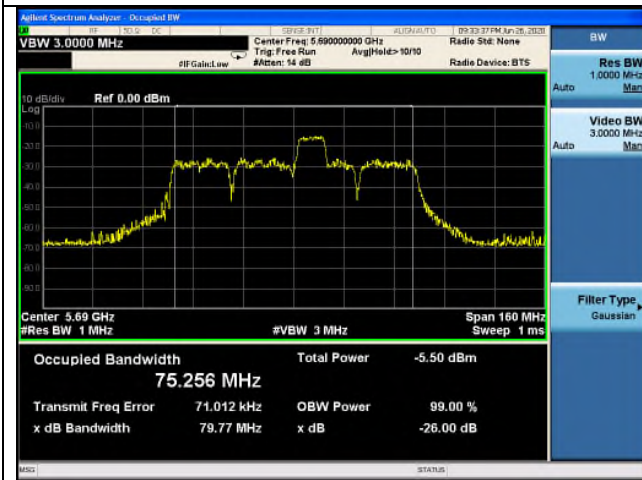


802.11ax_HE80 Band 2C_106T_57 RU

Ant.1

Ant.2

Straddle channel

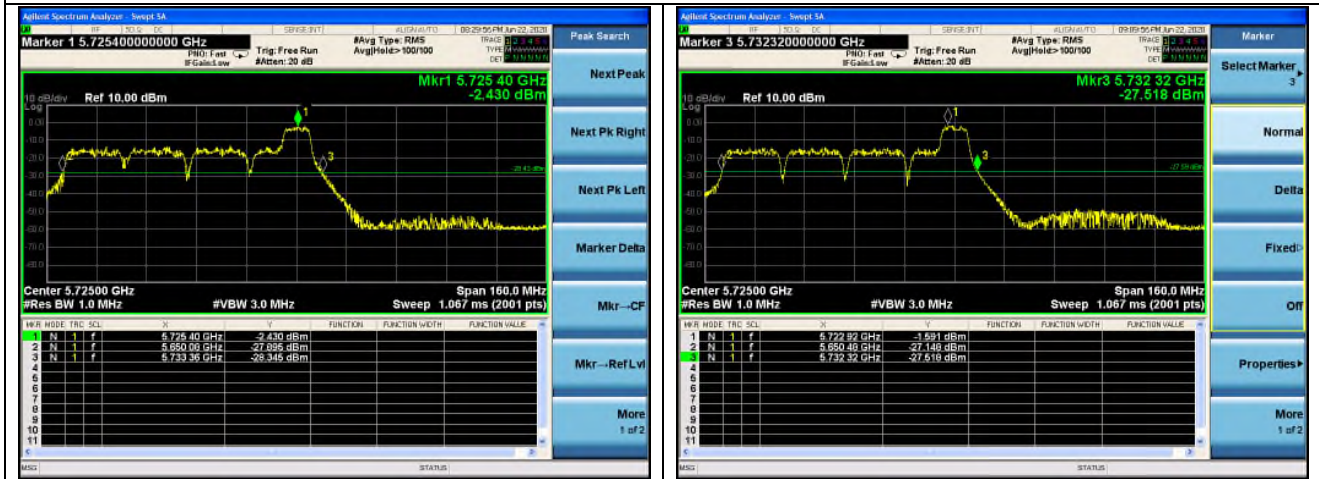


802.11ax_HE80 Band 2C_106T_60 RU

Ant.1

Ant.2

Straddle channel

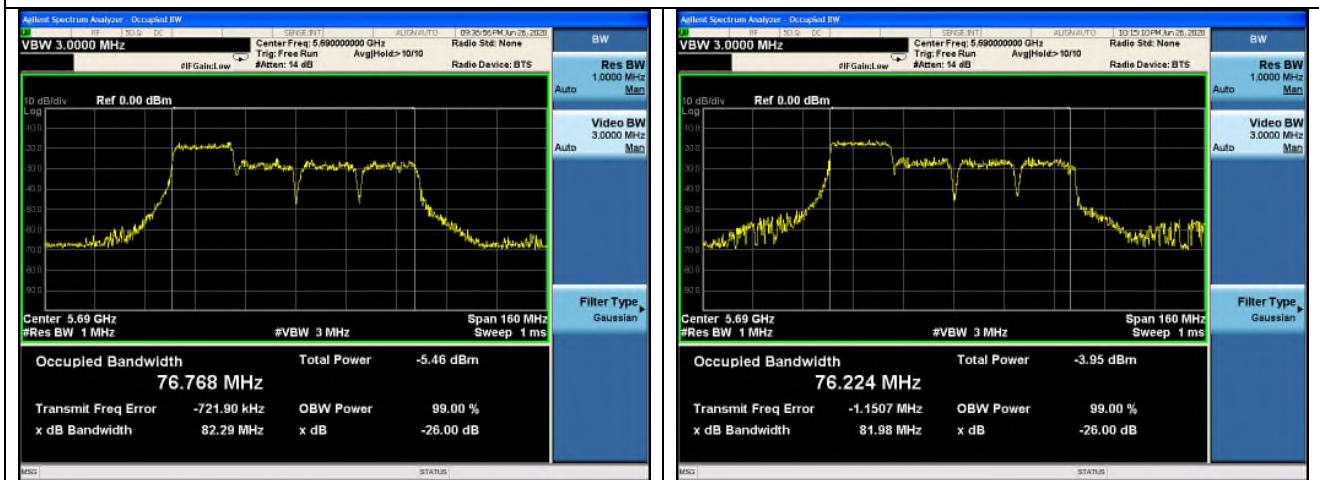


802.11ax_HE80 Band 2C_242T_61 RU

Ant.1

Ant.2

Straddle channel

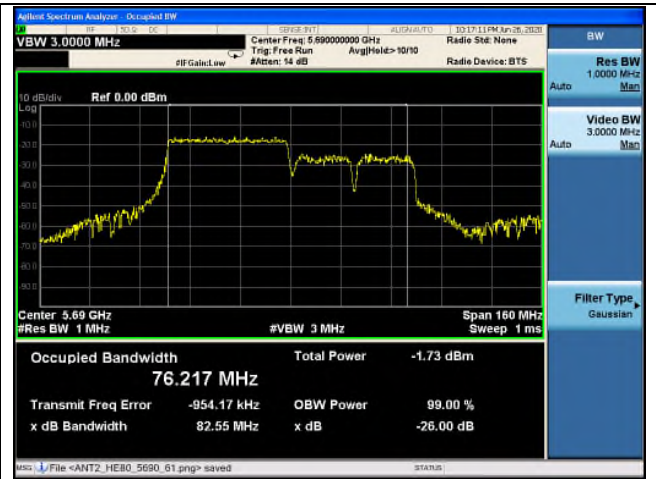
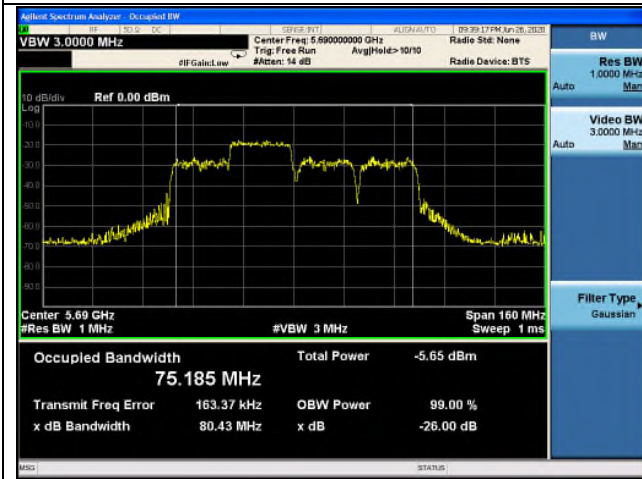


802.11ax_HE80 Band 2C_242T_62 RU

Ant.1

Ant.2

Straddle channel

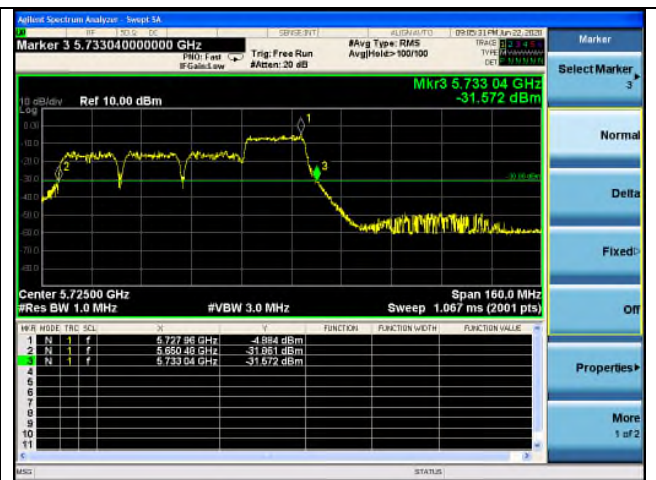
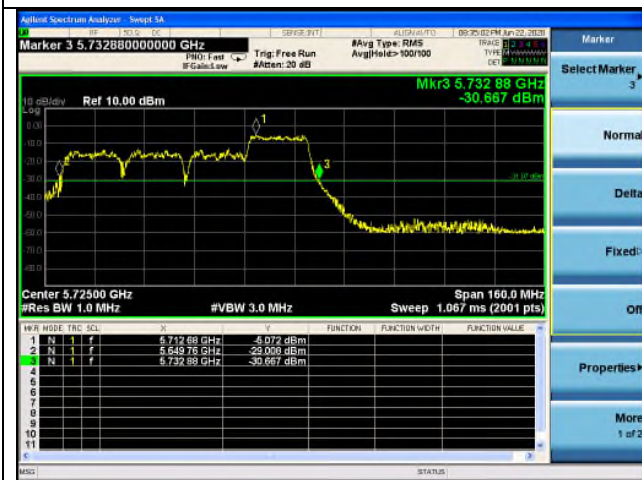


802.11ax_HE80 Band 2C_242T_64 RU

Ant.1

Ant.2

Straddle channel

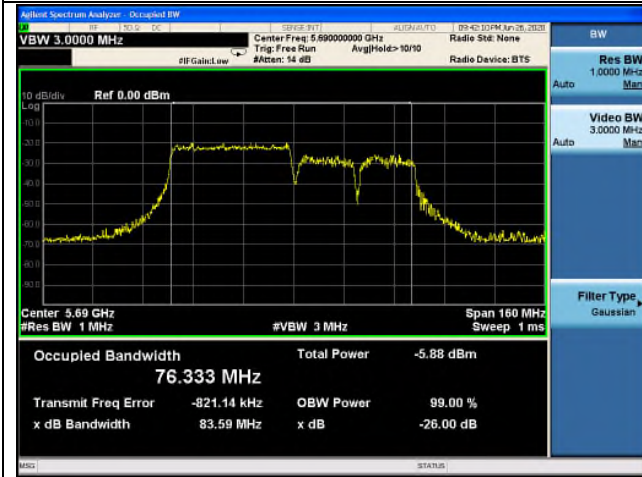


802.11ax_HE80 Band 2C_484T_65 RU

Ant.1

Ant.2

Straddle channel

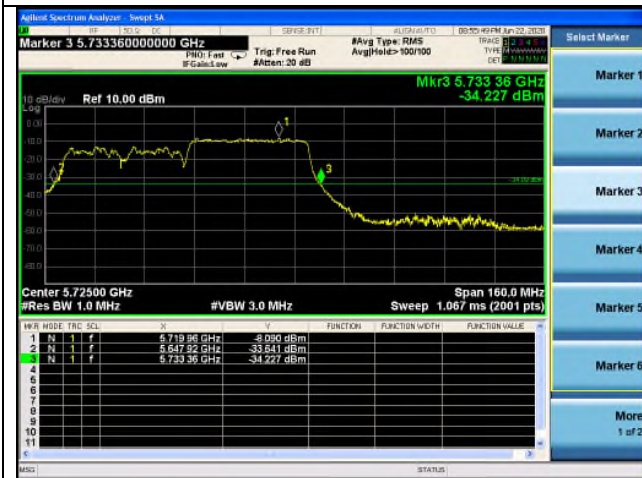


802.11ax_HE80 Band 2C_484T_66 RU

Ant.1

Ant.2

Straddle channel

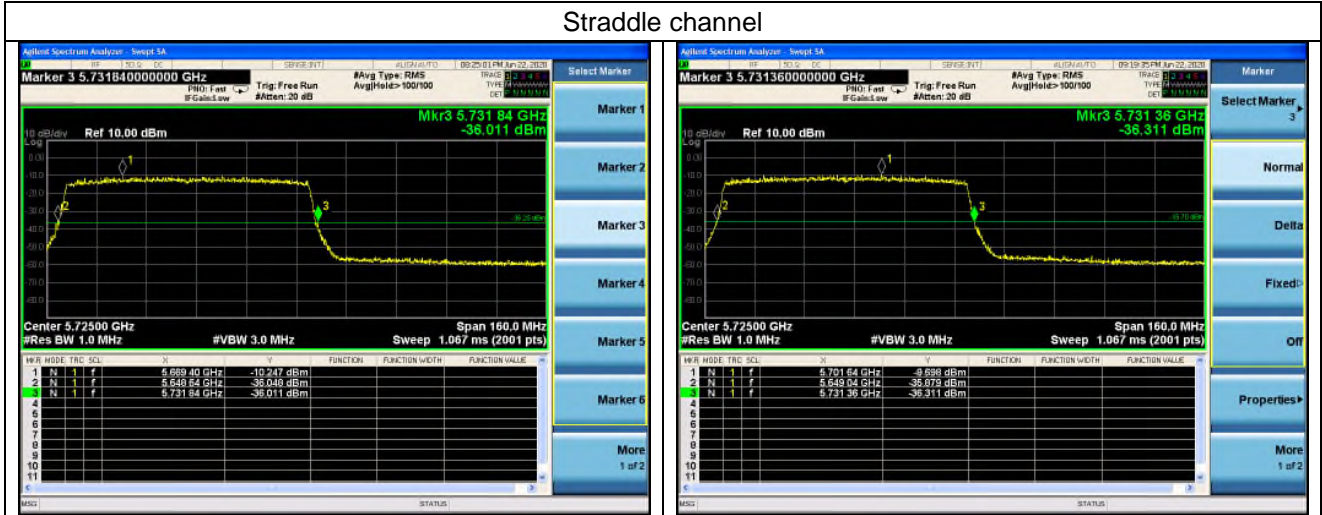


802.11ax_HE80 Band 2C_SU

Ant.1

Ant.2

Straddle channel



4. 6 dB Bandwidth

4.1. Test Setup



4.2. Limit

4.2.1. FCC

According to §15.407(e), within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

4.2.2. IC

According to RSS-247 Issue 2, 6.2.4.1, the minimum -6 dB Bandwidth shall be at least 500 kHz.

4.3. Test Procedure

All data rates and modes were investigated for this test. The full data for the worst case data rate are reported in this section.

1. This measurement settings are specified in section II.C.2 of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Set RBW = 100 kHz.
3. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Remark;

In case of band crossing channels 138, 142 and 144, the measurement is complied with section III.A of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

4.4. Test Result

Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 % R.H.

U-NII 3

Mode	Tones	RU offset	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Bandwidth (kHz)
					Ant.1	Ant.2	
11ax_HE20	26T	0	Low	5 745	2.082	2.010	500
			Middle	5 785	2.043	2.020	
			High	5 825	2.085	2.040	
11ax_HE40	26T	0	Low	5 755	2.068	2.056	
			High	5 795	2.068	2.016	
11ax_HE80	26T	0	Middle	5 775	2.109	2.130	

- Straddle channels

Mode	Tones	RU offset	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Bandwidth (kHz)
					Ant.1	Ant.2	
11ax_HE20	26T	8	Straddle	5 720	1.996	2.064	500
	52T	40			14.500	16.960	
	106T	54			4.520	4.560	
	SU	-			3.640	3.800	
11ax_HE40	26T	17	Straddle	5 710	2.041	2.064	
	52T	44			4.110	4.110	
	106T	56			4.040	4.040	
	242T	62			4.120	4.120	
	SU	-			4.040	2.760	
11ax_HE80	26T	36	Straddle	5 690	2.166	2.138	
	52T	52			4.262	4.183	
	106T	60			4.040	4.040	
	242T	64			4.200	4.200	
	484T	66			4.200	4.200	
	SU	-			4.040	3.880	

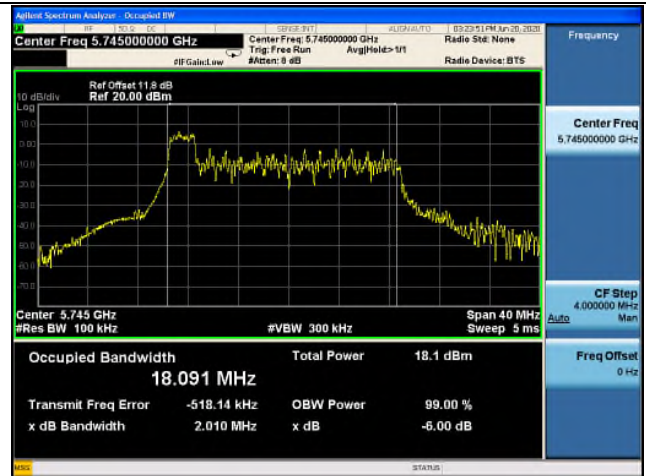
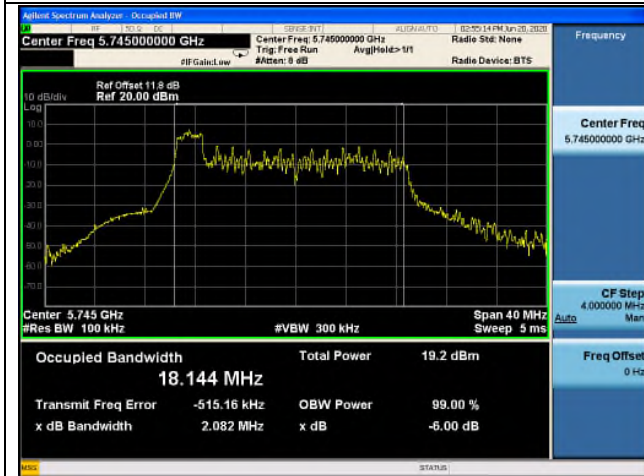
- Test plots

802.11ax_HE20 Band 3_26T_0 RU

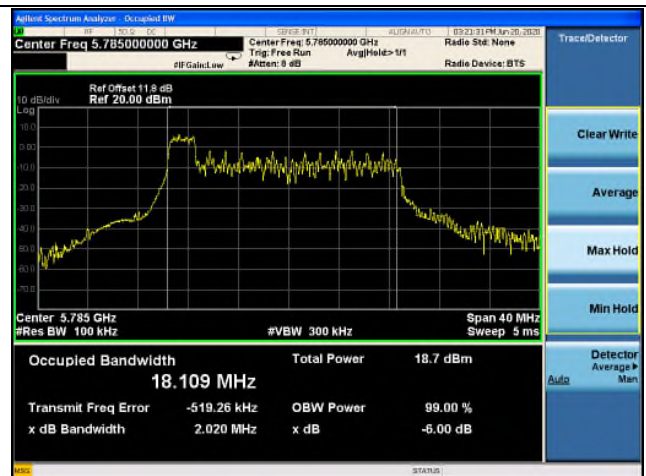
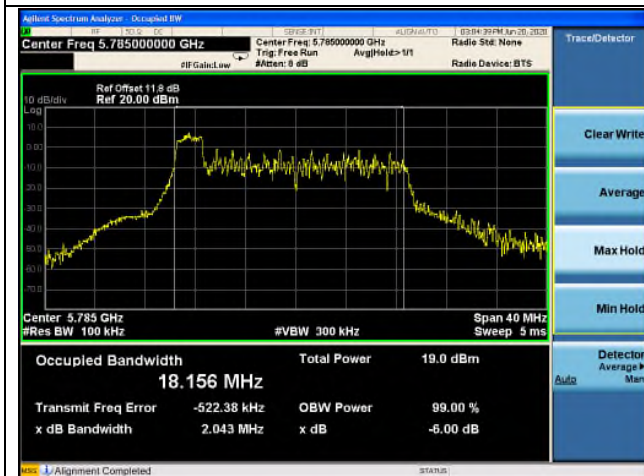
Ant.1

Ant.2

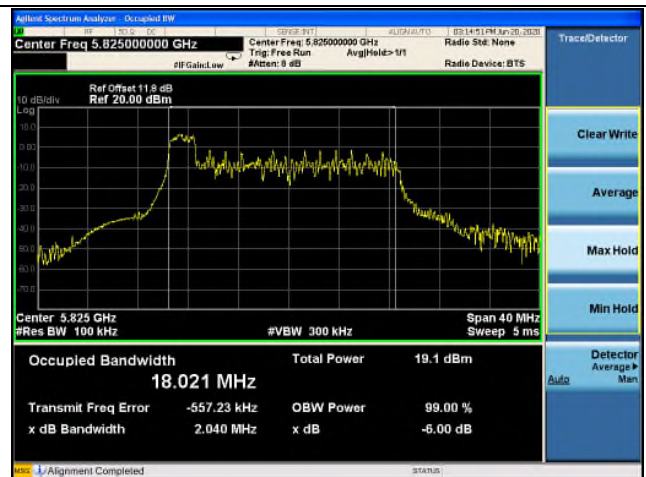
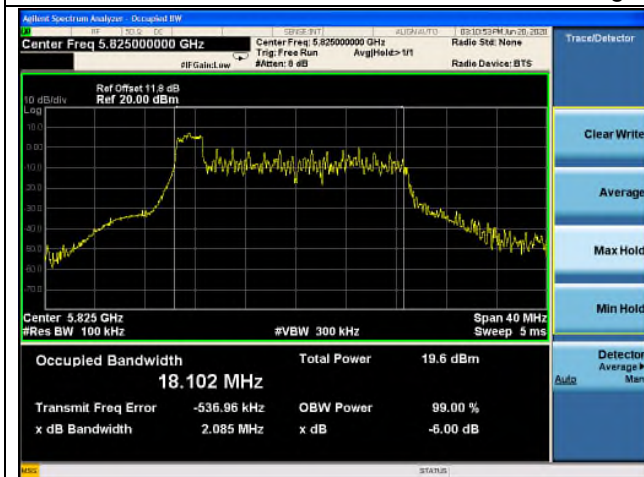
Low channel



Middle channel



High channel

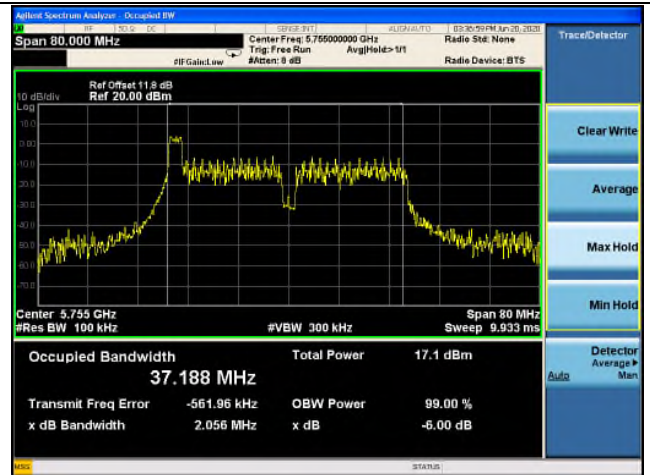
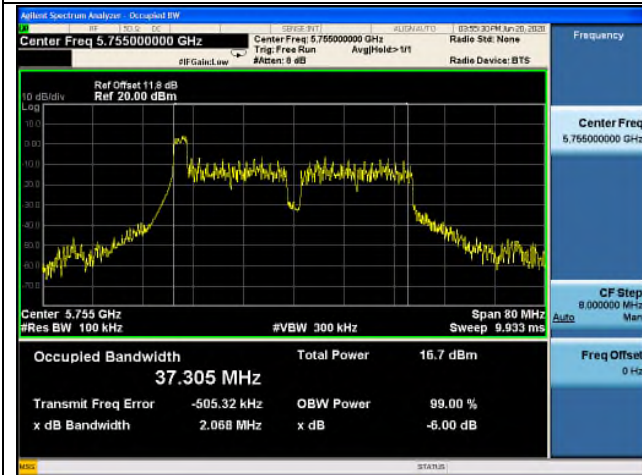


802.11ax_HE40 Band 3_26T_0 RU

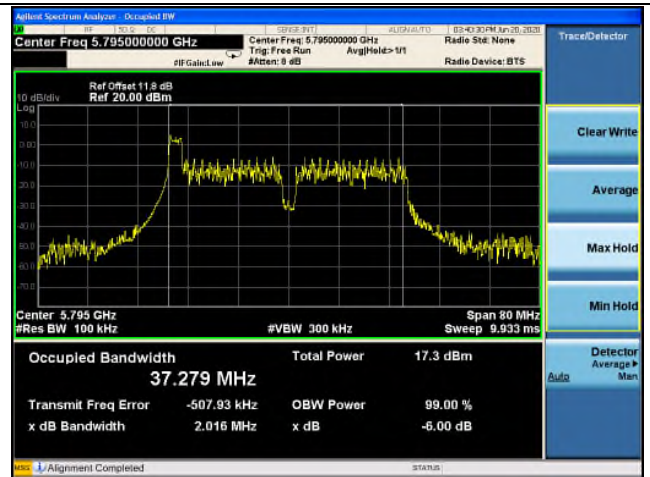
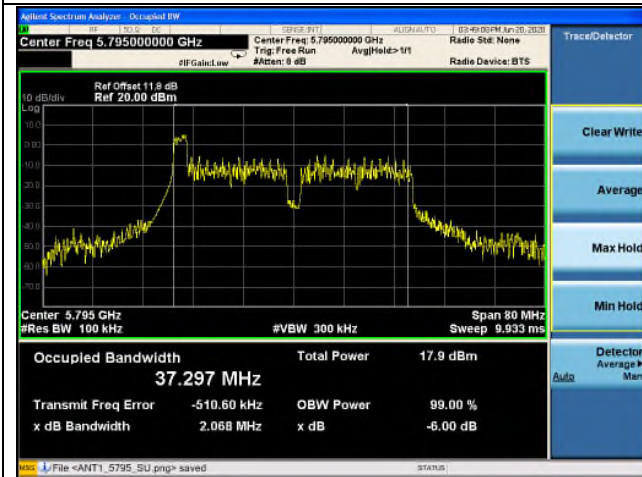
Ant.1

Ant.2

Low channel



High channel

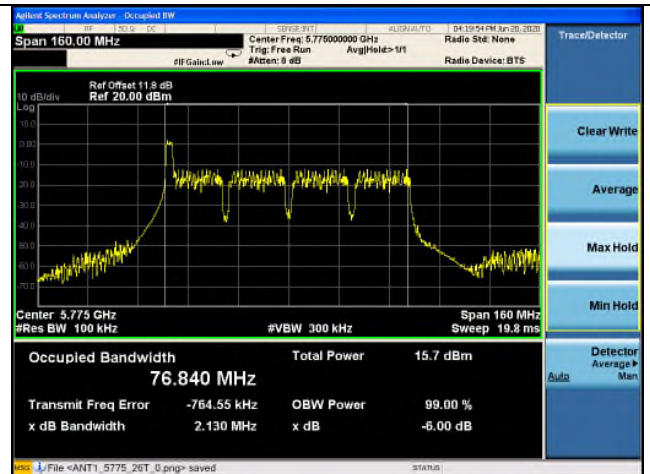
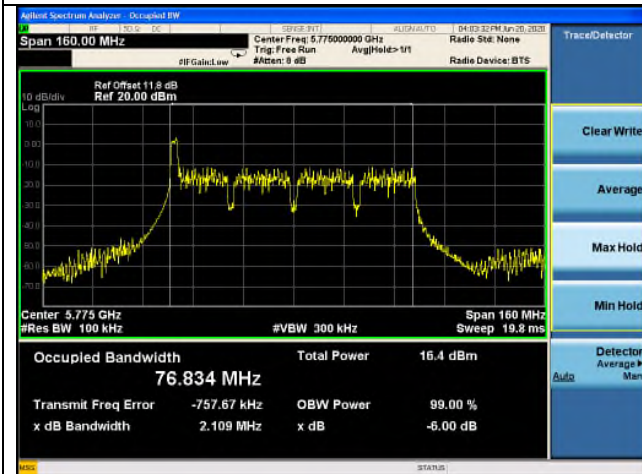


802.11ax_HE80 Band 3_26T_0 RU

Ant.1

Ant.2

Middle channel

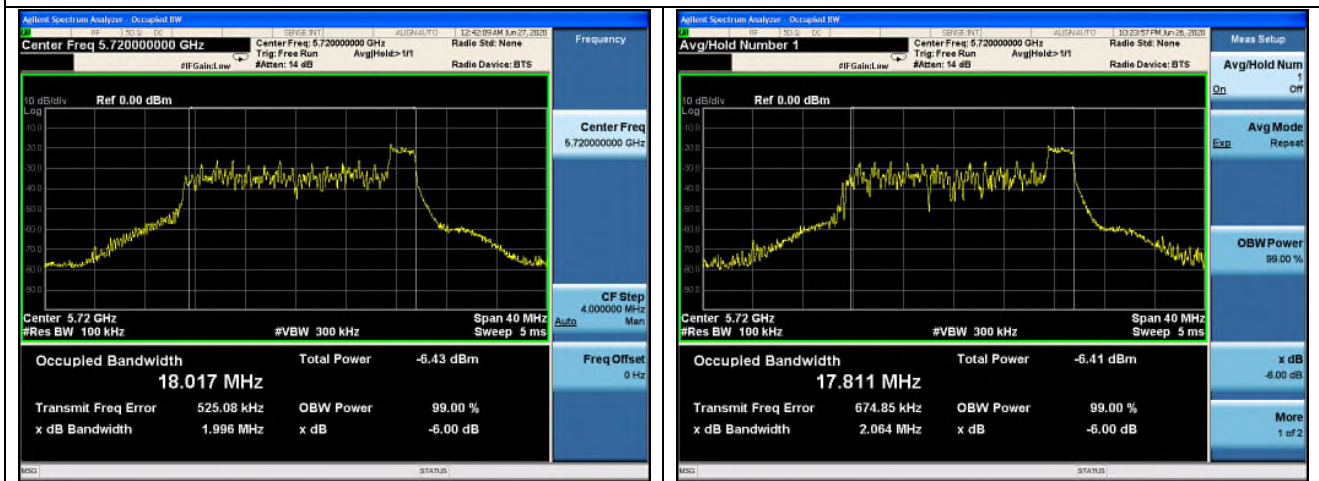


802.11ax_HE20 Band 3_26T_8 RU

Ant.1

Ant.2

Straddle channel

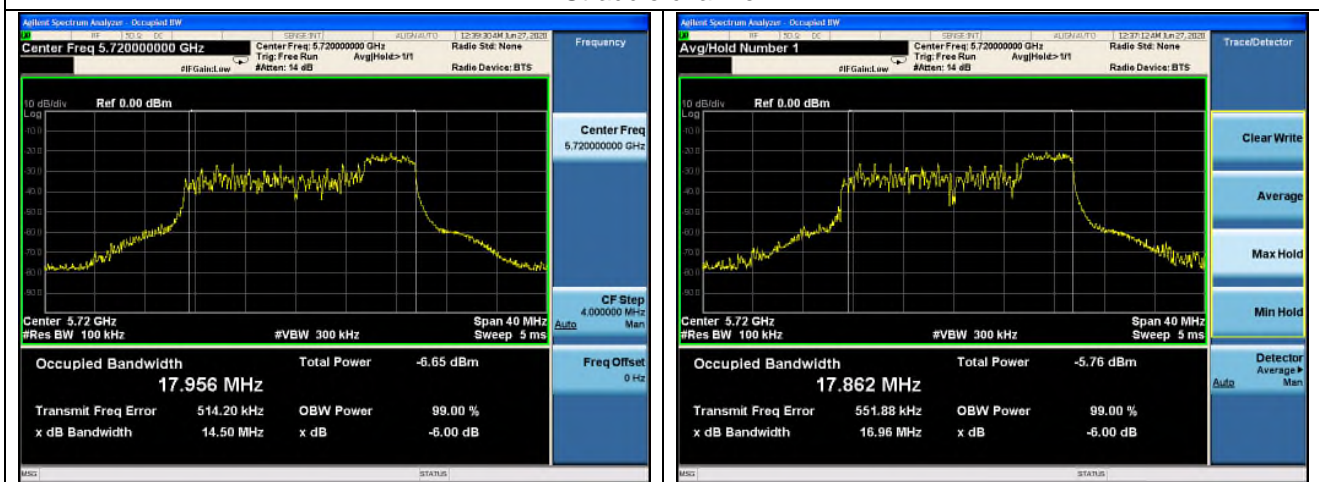


802.11ax_HE20 Band 3_52T_40 RU

Ant.1

Ant.2

Straddle channel

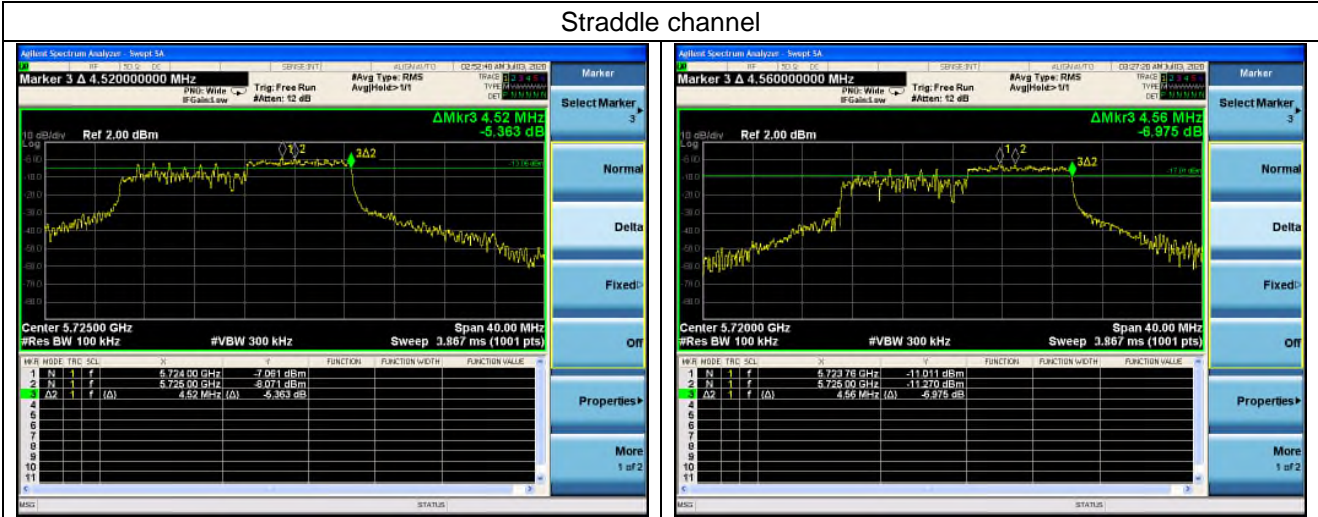


802.11ax_HE20 Band 3_106T_54 RU

Ant.1

Ant.2

Straddle channel

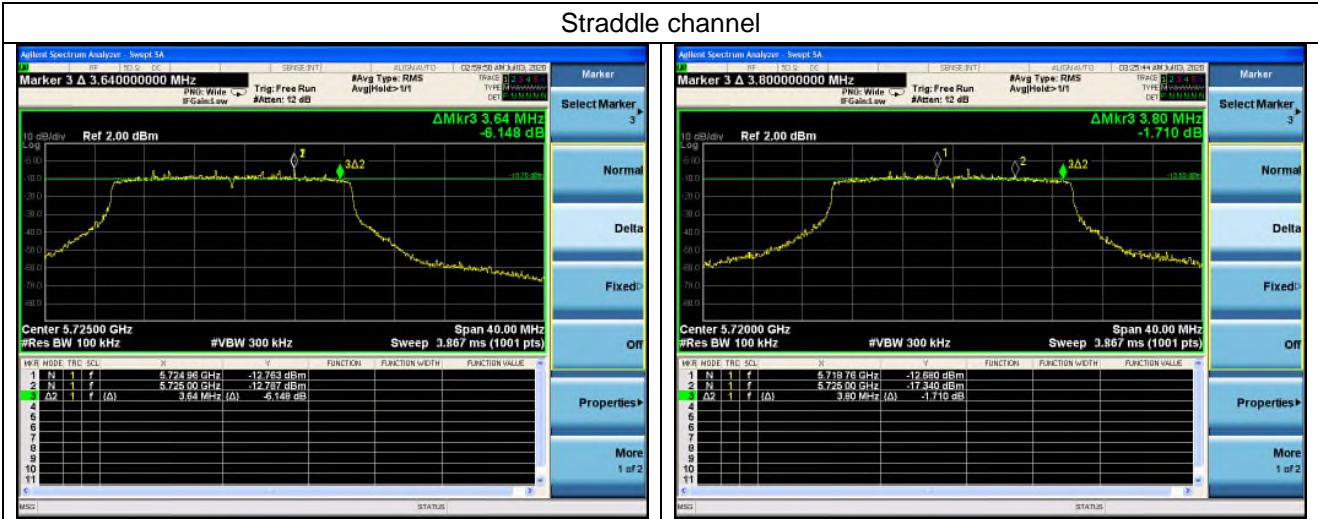


802.11ax_HE20 Band 3_SU

Ant.1

Ant.2

Straddle channel

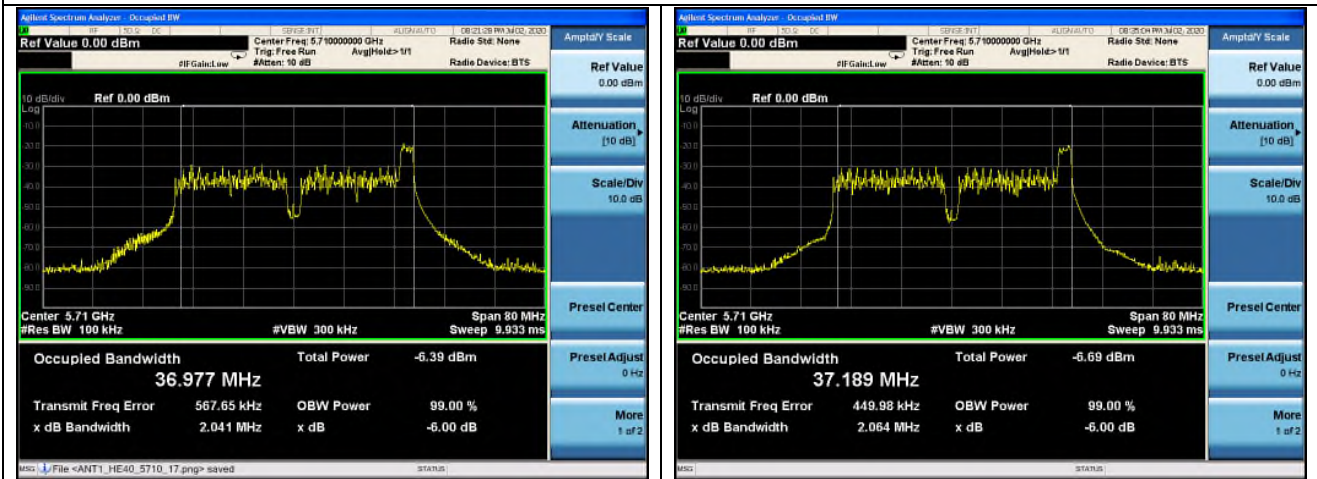


802.11ax_HE40 Band 3_26T_17 RU

Ant.1

Ant.2

Straddle channel

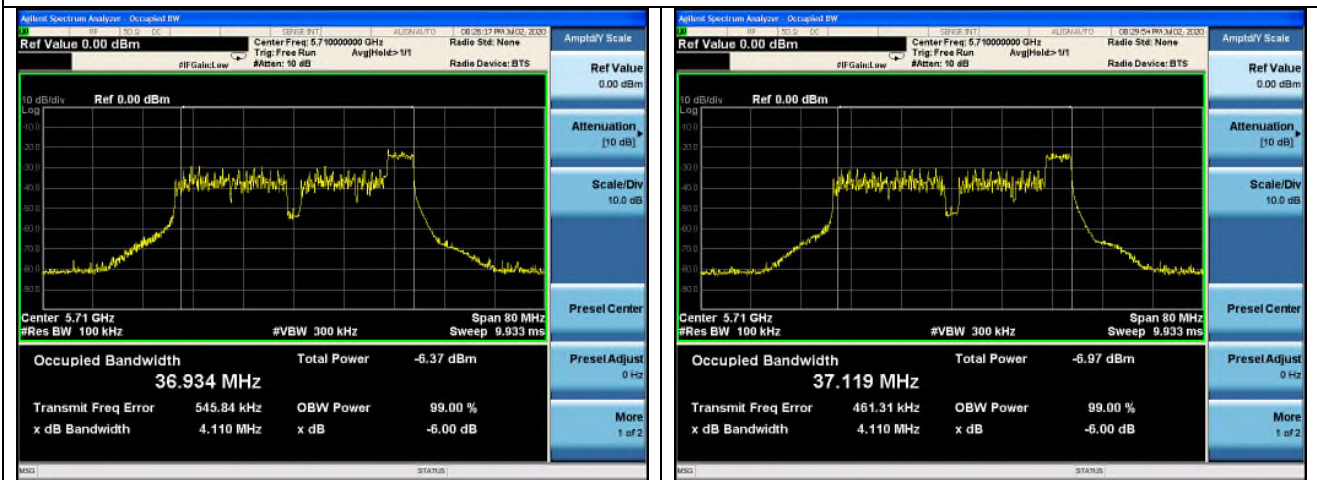


802.11ax_HE40 Band 3_52T_44 RU

Ant.1

Ant.2

Straddle channel

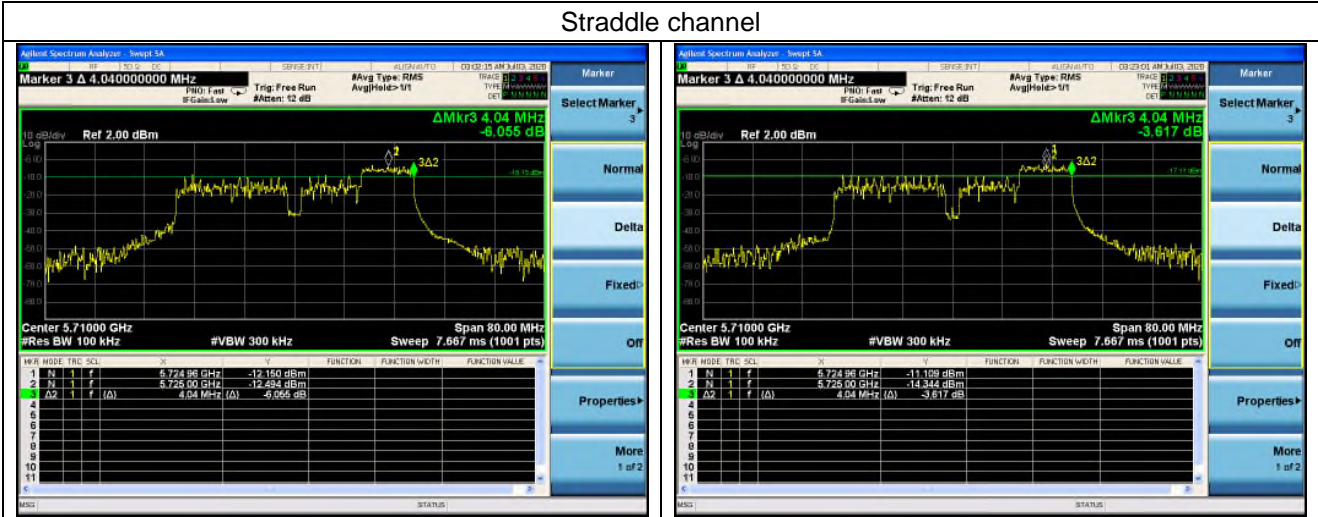


802.11ax_HE40 Band 3_106T_56 RU

Ant.1

Ant.2

Straddle channel

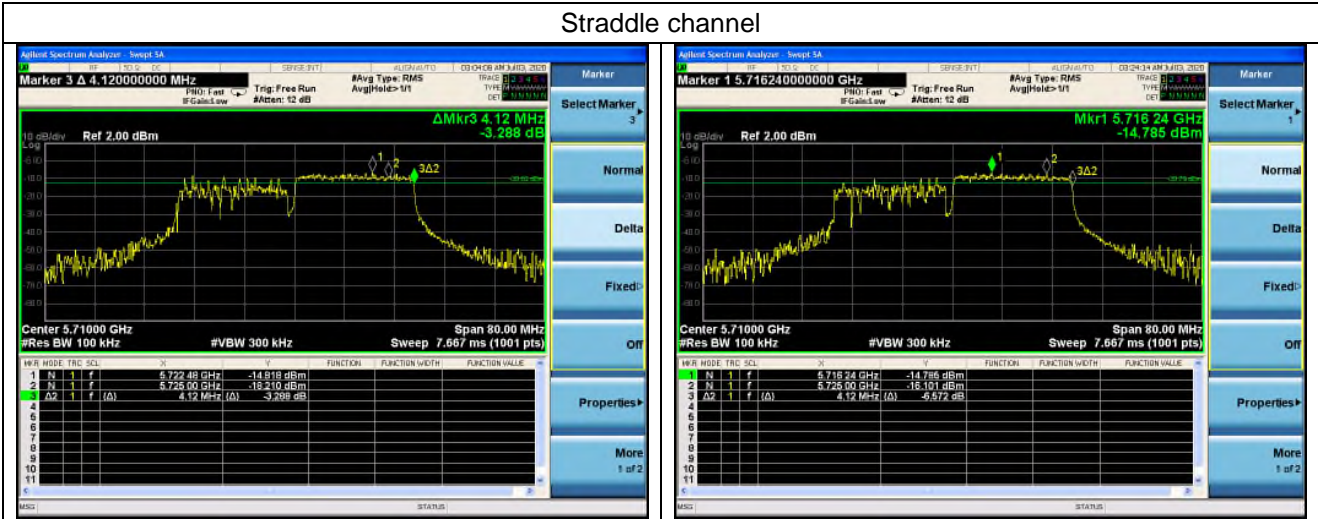


802.11ax_HE40 Band 3_242T_62 RU

Ant.1

Ant.2

Straddle channel

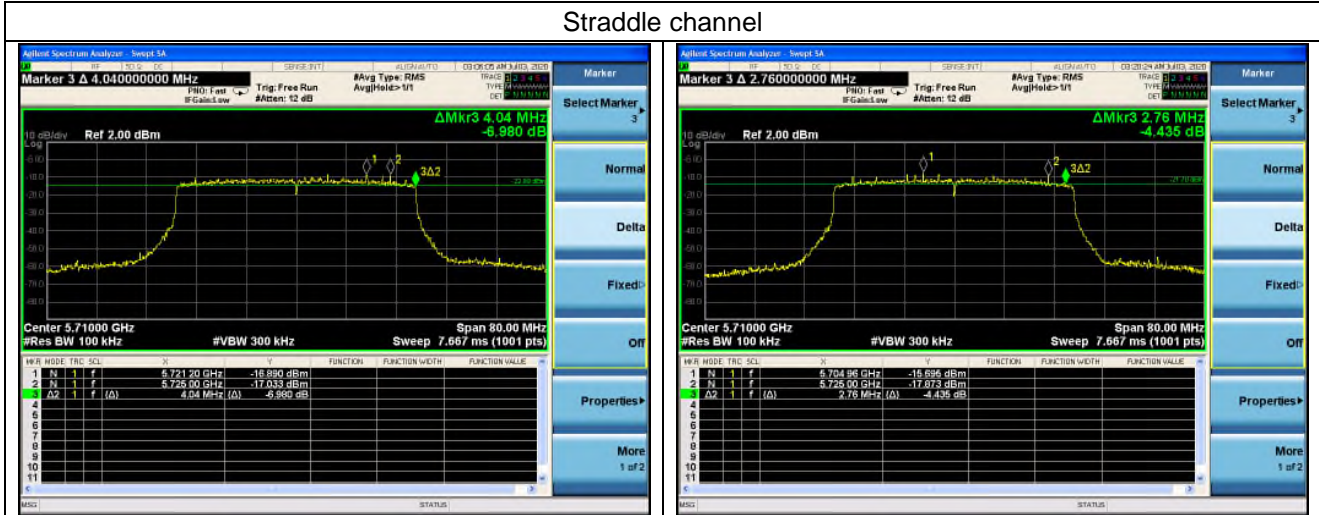


802.11ax_HE40 Band 3_SU

Ant.1

Ant.2

Straddle channel

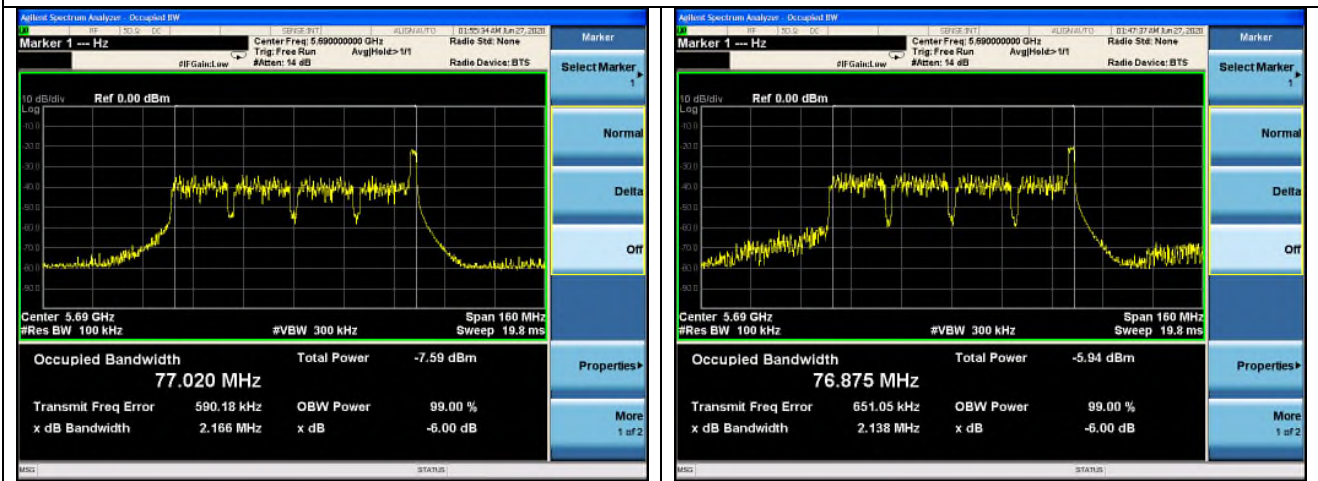


802.11ax_HE80 Band 3_26T_36 RU

Ant.1

Ant.2

Straddle channel

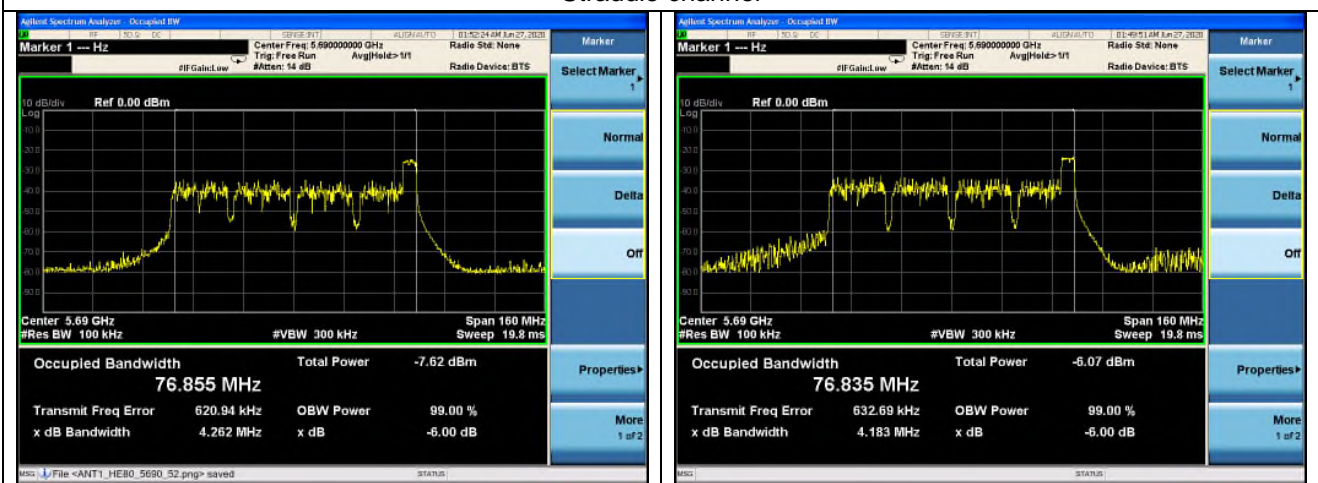


802.11ax_HE80 Band 3_52T_52 RU

Ant.1

Ant.2

Straddle channel

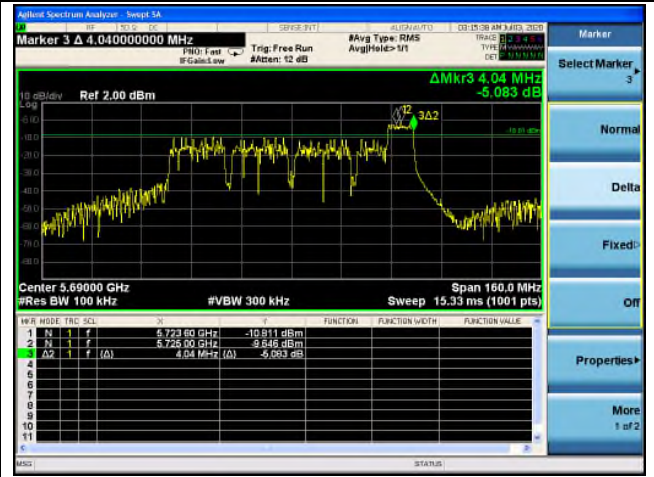
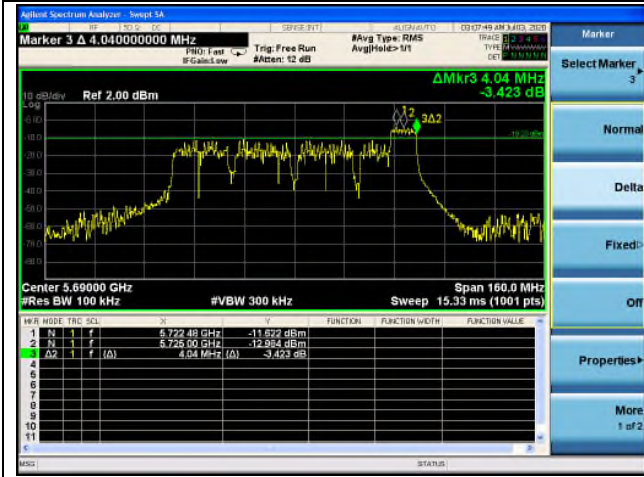


802.11ax_HE80 Band 3_106T_60 RU

Ant.1

Ant.2

Straddle channel

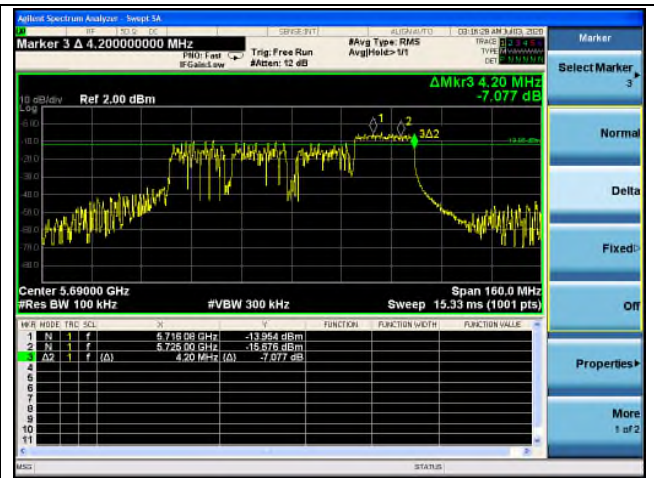
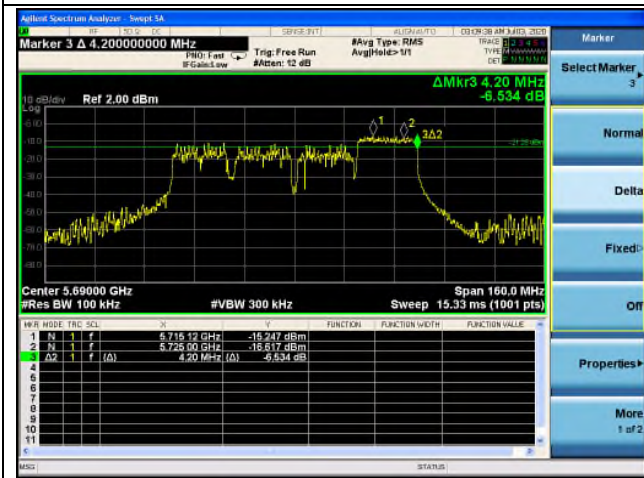


802.11ax_HE80 Band 3_242T_64 RU

Ant.1

Ant.2

Straddle channel

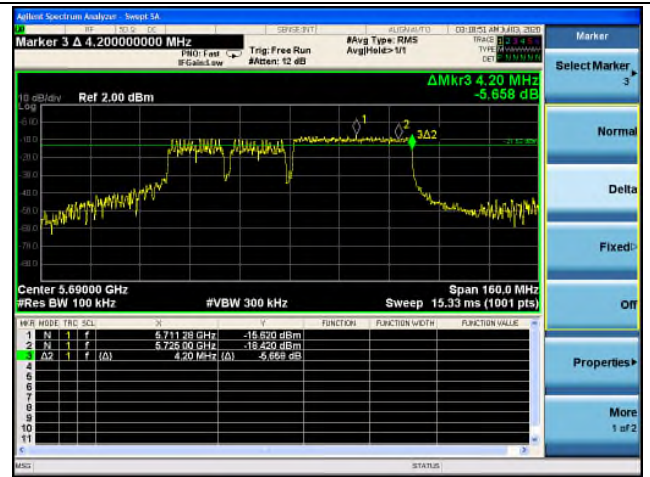


802.11ax_HE80 Band 3_484T_66 RU

Ant.1

Ant.2

Straddle channel

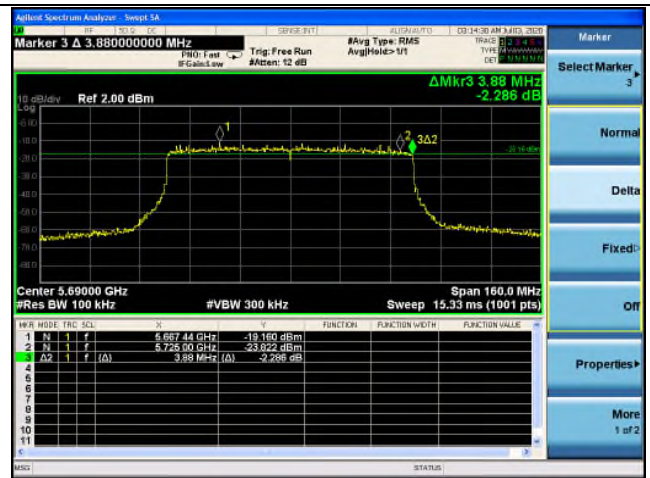
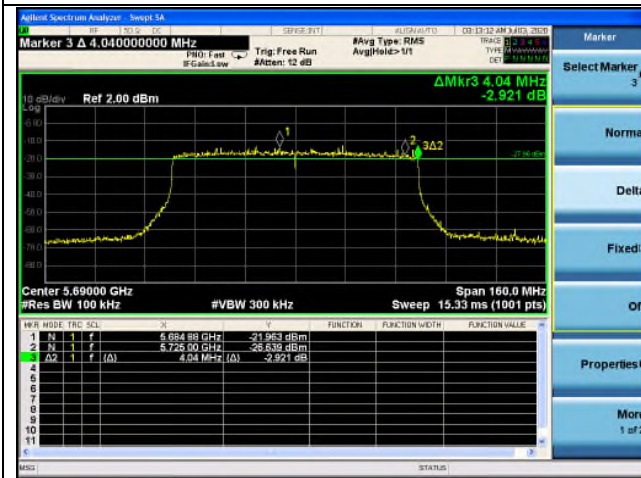


802.11ax_HE80 Band 3_SU

Ant.1

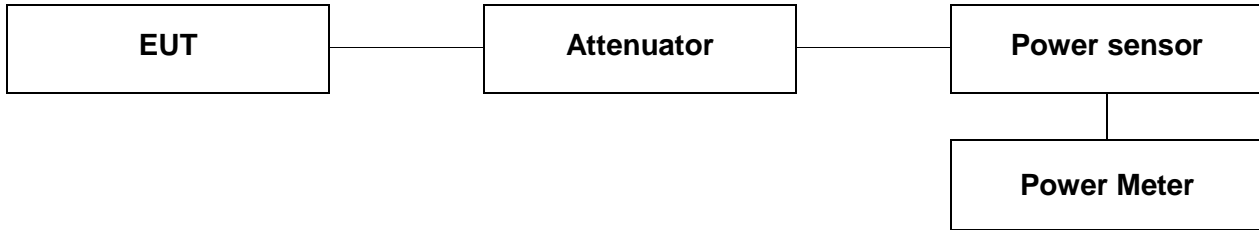
Ant.2

Straddle channel



5. Maximum Conducted Output Power

5.1. Test Setup



5.2. Limit

5.2.1. FCC

According to 15.407(a)(1)(iv)

For 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.

According to 15.407(a)(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.

According to 15.407(a)(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.

5.2.2. IC

According to RSS-247 Issue 2,

6.2.1.1 Frequency band 5 150-5 250 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10}B$, dB m, whichever is less. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10}B$, dB m, whichever power is less. B is the 99 % emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dB m in any 1.0 MHz band.

6.2.2.1 Frequency band 5 250-5 350 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10}B$, dB m, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

Devices, other than devices installed in vehicles, shall comply with the following:

a) The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dB m, whichever is less. The power spectral density shall not exceed 11 dB m in any 1.0 MHz band;

b) The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dB m, whichever is less. B is the 99 % emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

6.2.3.1 Frequency band 5 470-5 600 MHz and 5 650-5 725 MHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dB m, whichever is less. The power spectral density shall not exceed 11 dB m in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dB m, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

6.2.4.1 Frequency band 5 725-5 850 MHz

For equipment operating in the band 5 725-5 850 MHz, the minimum 6 dB bandwidth shall be at least 500 kHz. The maximum conducted output power shall not exceed 1 W. The output power spectral density shall not exceed 30 dB m in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dB i are used, both the maximum conducted output power and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB i. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dB i without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint³ systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

5.3. Test Procedure

All data rates and modes were investigated for this test. The full data for the worst case data rate are reported in this section.

1. This measurement settings are specified in section II.E.3.a of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied:
 - The EUT is configured to transmit continuously or to transmit with a consistent duty cycle.
 - At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
 - The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
3. If the transmitter does not transmit continuously, measure the duty cycle, x , of the transmitter output signal as described in section II.B.
4. Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
5. Adjust the measurement in dBm by adding $10 \log(1/x)$ where x is the duty cycle (e.g., $10 \log(1/0.25)$ if the duty cycle is 25 %).
6. In case of band crossing channels 138, 142 and 144, the measurement is complied with section III.A of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

5.4. Test Result

Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 % R.H.

5.4.1. 11ax_HE20

- SISO

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)			
					Ant.1	Ant.2		
U-NII 1	Low	5 180	26T	0	10.15	10.27		
				4	10.19	10.30		
				8	10.17	10.22		
			52T	37	10.05	10.32		
				38	10.15	10.46		
				40	10.18	10.33		
			106T	53	10.25	10.40		
				54	10.36	10.43		
			SU	-	10.08	9.91		
			Middle	5 220	26T	0	10.28	10.30
						4	10.34	10.21
						8	10.35	10.19
	52T	37			10.22	10.37		
		38			10.27	10.40		
		40			10.26	10.26		
	106T	53			10.21	10.43		
		54			10.21	10.44		
	SU	-			10.23	10.12		
	High	5 240			26T	0	10.21	10.26
						4	10.20	10.17
						8	10.22	10.13
			52T	37	10.12	10.34		
				38	10.25	10.43		
				40	10.19	10.19		
106T			53	10.20	10.38			
			54	10.22	10.28			
SU			-	10.30	9.93			

- SISO_Ant.1

Band	Channel	Frequency (MHz)	Tones	RU offset	Average Power (dB m)	Antenna Gain (dB i)	E.I.R.P. (dB m)
U-NII 1	Low	5 180	26T	0	10.15	-6.20	3.95
				4	10.19		3.99
				8	10.17		3.97
			52T	37	10.05		3.85
				38	10.15		3.95
				40	10.18		3.98
			106T	53	10.25		4.05
				54	10.36		4.16
			SU	-	10.08		3.88
	Middle	5 220	26T	0	10.28		4.08
				4	10.34		4.14
				8	10.35		4.15
			52T	37	10.22		4.02
				38	10.27		4.07
				40	10.26		4.06
			106T	53	10.21		4.01
				54	10.21		4.01
			SU	-	10.23		4.03
	High	5 240	26T	0	10.21		4.01
				4	10.20		4.00
				8	10.22		4.02
			52T	37	10.12		3.92
				38	10.25		4.05
				40	10.19		3.99
			106T	53	10.20		4.00
				54	10.22		4.02
			SU	-	10.30		4.10

- SISO_Ant.2

Band	Channel	Frequency (MHz)	Tones	RU offset	Average Power (dB m)	Antenna Gain (dB i)	E.I.R.P. (dB m)
U-NII 1	Low	5 180	26T	0	10.27	-7.20	3.07
				4	10.30		3.10
				8	10.22		3.02
			52T	37	10.32		3.12
				38	10.46		3.26
				40	10.33		3.13
			106T	53	10.40		3.20
				54	10.43		3.23
			SU	-	9.91		2.71
	Middle	5 220	26T	0	10.30		3.10
				4	10.21		3.01
				8	10.19		2.99
			52T	37	10.37		3.17
				38	10.40		3.20
				40	10.26		3.06
			106T	53	10.43		3.23
				54	10.44		3.24
			SU	-	10.12		2.92
	High	5 240	26T	0	10.26		3.06
				4	10.17		2.97
				8	10.13		2.93
			52T	37	10.34		3.14
				38	10.43		3.23
				40	10.19		2.99
106T			53	10.38	3.18		
			54	10.28	3.08		
SU			-	9.93	2.73		

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)	
					Ant.1	Ant.2
U-NII 2A	Low	5 260	26T	0	10.21	10.16
				4	10.28	10.12
				8	10.24	10.14
			52T	37	10.24	10.18
				38	10.30	10.24
				40	10.32	10.20
			106T	53	10.38	10.30
				54	10.27	10.33
			SU	-	10.30	9.80
	Middle	5 300	26T	0	10.38	10.55
				4	10.34	10.40
				8	10.40	10.27
			52T	37	10.31	10.54
				38	10.40	10.61
				40	10.25	10.40
			106T	53	10.32	10.63
				54	10.35	10.47
			SU	-	10.38	10.22
	High	5 320	26T	0	10.24	10.24
				4	10.22	10.16
				8	10.13	10.10
			52T	37	10.16	10.21
				38	10.22	10.25
				40	10.15	10.16
			106T	53	10.17	10.37
				54	10.10	10.27
			SU	-	10.20	9.90

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)	
					Ant.1	Ant.2
U-NII 2C	Low	5 500	26T	0	10.20	9.93
				4	10.37	9.79
				8	10.05	9.63
			52T	37	10.10	9.95
				38	10.11	9.90
				40	10.10	9.74
			106T	53	10.01	10.01
				54	10.01	9.84
			SU	-	10.20	9.54
	Middle	5 580	26T	0	10.17	10.44
				4	10.35	10.48
				8	9.96	10.40
			52T	37	9.97	10.49
				38	10.05	10.54
				40	10.03	10.48
			106T	53	9.96	10.63
				54	9.85	10.61
			SU	-	10.13	10.27
	High	5 700	26T	0	9.88	9.96
				4	9.82	9.85
				8	9.56	9.66
			52T	37	9.85	9.98
				38	9.86	9.96
				40	9.64	9.82
			106T	53	9.90	10.07
				54	9.66	9.86
			SU	-	9.61	9.69

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)	
					Ant.1	Ant.2
U-NII 3	Low	5 745	26T	0	9.93	10.09
				4	9.97	10.13
				8	10.11	10.02
			52T	37	10.23	10.12
				38	10.25	10.19
				40	10.15	10.00
			106T	53	10.21	10.23
				54	10.22	10.19
			SU	-	10.25	9.83
	Middle	5 785	26T	0	10.22	10.33
				4	10.25	10.32
				8	10.33	10.31
			52T	37	10.47	10.33
				38	10.52	10.43
				40	10.34	10.32
			106T	53	9.78	10.41
				54	10.40	10.42
			SU	-	10.57	10.15
	High	5 825	26T	0	10.36	10.42
				4	10.29	10.41
				8	10.38	10.31
			52T	37	10.64	10.48
				38	10.60	10.53
				40	10.47	10.39
106T			53	10.66	10.55	
			54	10.63	10.50	
SU			-	10.61	10.33	

- Straddle channel

Channel	Frequency (MHz)	Tones	RU offset	Band	Average power (dB m)	
					Ant.1	Ant.2
Straddle	5 720	26T	0	U-NII 2C	10.20	9.90
			4	U-NII 2C	10.25	9.88
			8	U-NII 3	9.91	9.89
		52T	37	U-NII 2C	10.05	9.92
			38	U-NII 2C	10.08	10.01
			40	U-NII 3	9.93	9.91
		106T	53	U-NII 2C	10.13	10.00
			54	U-NII 2C	5.66	5.85
				U-NII 3	6.37	6.56
		SU	-	U-NII 2C	7.78	8.38
				U-NII 3	2.02	2.67

- SISO_Ant.1

Band	FCC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 180	23.98	/		-6.20	23.98
	5 220					
	5 240					
U-NII 2A	5 260		18.320	23.63	-5.30	23.63
	5 300		18.360	23.64		23.64
	5 320		18.260	23.62		23.62
U-NII 2C	5 500		18.520	23.68	-4.20	23.68
	5 580		18.340	23.63		23.63
	5 700		18.250	23.61		23.61
U-NII 3	5 745	30	/		-4.35	30
	5 785					
	5 825					

Band	IC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	99 % BW (MHz)	10+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 180	23.01	16.692	22.23	-6.20	22.23
	5 220		16.803	22.25		22.25
	5 240		16.628	22.21		22.21

Band	IC Limit						
	Frequency (MHz)	Fixed Limit (dB m)	99 % BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)	
U-NII 2A	5 260	23.98	16.365	23.14	-5.30	23.14	
	5 300		17.060	23.32		23.32	
	5 320		17.065	23.32		23.32	
U-NII 2C	5 500		16.871	23.27	-4.20	23.27	
	5 580		17.029	23.31		23.31	
	5 700		17.017	23.31		23.31	
U-NII 3	5 745		30	/		-4.35	30
	5 785						
	5 825						

Band	Straddle channel Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 2C	5 720	23.98	14.560	22.63	-4.20	22.63
U-NII 3		30	/		-4.35	30

- SISO_Ant.2

Band	FCC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 180	23.98	/		-7.20	23.98
	5 220					
	5 240					
U-NII 2A	5 260		18.540	23.68	-6.80	23.68
	5 300		18.360	23.64		23.64
	5 320		18.530	23.68		23.68
U-NII 2C	5 500		18.050	23.56	-6.90	23.56
	5 580		18.370	23.64		23.64
	5 700		18.550	23.68		23.68
U-NII 3	5 745	30	/		-7.90	30
	5 785					
	5 825					

Band	IC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	99 % BW (MHz)	10+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 180	23.01	17.075	22.32	-7.20	22.32
	5 220		16.901	22.28		22.28
	5 240		17.084	22.33		22.33

Band	IC Limit						
	Frequency (MHz)	Fixed Limit (dB m)	99 % BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)	
U-NII 2A	5 260	23.98	17.070	23.32	-6.80	23.32	
	5 300		17.005	23.31		23.31	
	5 320		17.018	23.31		23.31	
U-NII 2C	5 500		16.737	23.24	-6.90	23.24	
	5 580		16.739	23.24		23.24	
	5 700		16.648	23.21		23.21	
U-NII 3	5 745		30	/		-7.90	30
	5 785						
	5 825						

Band	Straddle channel Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 2C	5 720	23.98	14.200	22.52	-6.90	22.52
U-NII 3		30	/		-7.90	30

Remark;

- E.I.R.P. (dB m) = Average Power (dB m) + Antenna Gain (dB i)

- MIMO

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)		
					Ant.1	Ant.2	Ant.1 + Ant.2
U-NII 1	Low	5 180	26T	0	9.57	10.63	13.14
				4	9.51	10.59	13.09
				8	9.57	10.54	13.09
			52T	37	9.67	10.71	13.23
				38	9.82	10.52	13.19
				40	9.71	10.53	13.15
			106T	53	9.69	10.76	13.27
				54	9.68	10.68	13.22
			SU	-	9.48	10.27	12.90
	Middle	5 220	26T	0	9.35	10.64	13.05
				4	9.41	10.59	13.05
				8	9.47	10.44	12.99
			52T	37	9.54	10.71	13.17
				38	9.66	10.57	13.15
				40	9.61	10.52	13.10
			106T	53	9.62	10.82	13.27
				54	9.56	10.69	13.17
			SU	-	9.42	10.52	13.02
	High	5 240	26T	0	9.42	10.66	13.09
				4	9.42	10.47	12.99
				8	9.46	10.32	12.92
			52T	37	9.57	10.71	13.19
				38	9.71	10.52	13.14
				40	9.61	10.44	13.06
			106T	53	9.65	10.78	13.26
				54	9.59	10.62	13.15
			SU	-	9.43	10.34	12.92



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Band	Channel	Frequency (MHz)	Tones	RU offset	Average Power (dB m)	Antenna Gain (dB i)	E.I.R.P. (dB m)
U-NII 1	Low	5 180	26T	0	13.14	-3.68	9.46
				4	13.09		9.41
				8	13.09		9.41
			52T	37	13.23		9.55
				38	13.19		9.51
				40	13.15		9.47
			106T	53	13.27		9.59
				54	13.22		9.54
			SU	-	12.90		9.22
	Middle	5 220	26T	0	13.05		9.37
				4	13.05		9.37
				8	12.99		9.31
			52T	37	13.17		9.49
				38	13.15		9.47
				40	13.10		9.42
			106T	53	13.27		9.59
				54	13.17		9.49
			SU	-	13.02		9.34
	High	5 240	26T	0	13.09		9.41
				4	12.99		9.31
				8	12.92		9.24
			52T	37	13.19		9.51
				38	13.14		9.46
				40	13.06		9.38
			106T	53	13.26		9.58
				54	13.15		9.47
			SU	-	12.92		9.24

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)		
					Ant.1	Ant.2	Ant.1 + Ant.2
U-NII 2A	Low	5 260	26T	0	9.47	10.53	13.04
				4	9.46	10.50	13.02
				8	9.51	10.34	12.96
			52T	37	9.54	10.62	13.12
				38	9.75	10.42	13.11
				40	9.65	10.44	13.07
			106T	53	9.64	10.71	13.22
				54	9.65	10.59	13.16
			SU	-	9.44	10.19	12.84
	Middle	5 300	26T	0	9.54	10.93	13.30
				4	9.56	10.71	13.18
				8	9.58	10.51	13.08
			52T	37	9.72	10.94	13.38
				38	9.89	10.68	13.31
				40	9.71	10.61	13.19
			106T	53	9.81	11.01	13.46
				54	9.73	10.76	13.29
			SU	-	9.51	10.52	13.05
	High	5 320	26T	0	9.36	10.54	13.00
				4	9.43	10.43	12.97
				8	9.39	10.32	12.89
			52T	37	9.45	10.59	13.07
				38	9.57	10.37	13.00
				40	9.71	10.41	13.08
106T			53	9.58	10.71	13.19	
			54	9.64	10.56	13.13	
SU			-	9.49	10.25	12.90	

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)		
					Ant.1	Ant.2	Ant.1 + Ant.2
U-NII 2C	Low	5 500	26T	0	9.32	10.15	12.77
				4	9.39	10.02	12.73
				8	9.52	9.78	12.66
			52T	37	9.49	10.24	12.89
				38	9.72	9.97	12.86
				40	9.64	9.83	12.75
			106T	53	9.56	10.33	12.97
				54	9.54	10.06	12.82
			SU	-	9.30	9.86	12.60
	Middle	5 580	26T	0	9.27	10.85	13.14
				4	9.36	10.71	13.10
				8	9.39	10.67	13.09
			52T	37	9.45	10.91	13.25
				38	9.65	10.78	13.26
				40	9.55	10.74	13.20
			106T	53	9.57	10.97	13.34
				54	9.51	10.91	13.28
			SU	-	9.30	10.57	12.99
	High	5 700	26T	0	9.26	10.11	12.72
				4	9.14	10.09	12.65
				8	9.26	9.89	12.60
			52T	37	9.34	10.17	12.79
				38	9.45	10.17	12.84
				40	9.31	10.01	12.68
			106T	53	9.43	10.24	12.86
				54	9.28	10.18	12.76
			SU	-	9.78	9.83	12.82

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)		
					Ant.1	Ant.2	Ant.1 + Ant.2
U-NII 3	Low	5 745	26T	0	9.83	10.25	13.06
				4	9.71	10.31	13.03
				8	9.66	10.11	12.90
			52T	37	9.91	10.28	13.11
				38	10.02	10.33	13.19
				40	9.79	10.26	13.04
			106T	53	9.94	10.37	13.17
				54	9.79	10.46	13.15
			SU	-	9.88	9.94	12.92
	Middle	5 785	26T	0	10.12	10.41	13.28
				4	10.12	10.51	13.33
				8	10.16	10.41	13.30
			52T	37	10.29	10.42	13.37
				38	10.49	10.47	13.49
				40	10.25	10.53	13.40
			106T	53	10.34	10.50	13.43
				54	10.23	10.67	13.47
			SU	-	10.07	10.04	13.07
	High	5 825	26T	0	10.12	10.47	13.31
				4	10.12	10.62	13.39
				8	10.16	10.43	13.31
			52T	37	10.29	10.55	13.43
				38	10.49	10.61	13.56
				40	10.25	10.47	13.37
106T			53	10.34	10.64	13.50	
			54	10.23	10.67	13.47	
SU			-	10.07	10.32	13.21	

- Straddle channel

Channel	Frequency (MHz)	Tones	RU offset	Band	Average power (dB m)		
					Ant.1	Ant.2	Ant.1 + Ant.2
Straddle	5 720	26T	0	U-NII 2C	9.70	10.03	12.88
			4	U-NII 2C	9.65	10.12	12.90
			8	U-NII 3	9.68	9.99	12.85
		52T	37	U-NII 2C	9.81	10.12	12.98
			38	U-NII 2C	9.92	10.08	13.01
			40	U-NII 3	9.81	10.12	12.98
		106T	53	U-NII 2C	9.82	10.21	13.03
			54	U-NII 2C	4.53	5.95	8.31
				U-NII 3	5.28	6.66	9.03
		SU	-	U-NII 2C	7.21	8.43	10.87
				U-NII 3	1.54	2.75	5.20

Band	FCC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 180	23.98	/		-3.68	23.98
	5 220					
	5 240					
U-NII 2A	5 260		18.320	23.63	-3.01	23.63
	5 300		18.360	23.64		23.64
	5 320		18.260	23.62		23.62
U-NII 2C	5 500		18.050	23.56	-2.44	23.56
	5 580		18.340	23.63		23.63
	5 700		18.250	23.61		23.61
U-NII 3	5 745	30	/		-2.93	30
	5 785					
	5 825					

Band	IC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	99 % BW (MHz)	10+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 180	23.01	16.692	22.23	-3.68	22.23
	5 220		16.803	22.25		22.25
	5 240		16.628	22.21		22.21

Band	IC Limit						
	Frequency (MHz)	Fixed Limit (dB m)	99 % BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)	
U-NII 2A	5 260	23.98	16.365	23.14	-3.01	23.14	
	5 300		17.005	23.31		23.31	
	5 320		17.018	23.31		23.31	
U-NII 2C	5 500		16.737	23.24	-2.44	23.24	
	5 580		16.739	23.24		23.24	
	5 700		16.648	23.21		23.21	
U-NII 3	5 745		30	/		-2.93	30
	5 785						
	5 825						

Band	Straddle channel Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 2C	5 720	23.98	14.200	22.52	-2.44	22.52
U-NII 3		30	/		-2.93	30

Remark;

1. E.I.R.P. (dB m) = Average Power (dB m) + Antenna Gain (dB i)
2. According to KDB 662911, average power of each port and antenna gain was combined by using below calculation.
 - Average power: $10 \log \{10^{(\text{Ant.1 power} / 10)} + 10^{(\text{Ant.2 power} / 10)}\}$
 - Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, \dots, G_N dB i
 - (i) If transmit signals are correlated, then
Directional gain = $10 \log \left[\frac{(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2}{N_{\text{ANT}}} \right]$ dB i [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

5.4.2. 11ax_HE40

- SISO

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)	
					Ant.1	Ant.2
U-NII 1	Low	5 190	26T	0	9.69	10.42
				9	9.70	10.59
				17	9.85	10.35
			52T	37	9.77	10.47
				41	9.78	10.11
				44	9.96	10.32
			106T	53	10.15	9.99
				54	10.12	10.14
				56	10.25	10.50
			242T	61	10.15	10.00
				62	10.30	10.03
			SU	-	10.02	10.31
	High	5 230	26T	0	10.17	10.25
				9	9.92	10.45
				17	10.04	9.94
			52T	37	10.21	10.32
				41	10.01	9.89
				44	10.17	9.99
			106T	53	10.53	9.97
				54	10.09	10.02
				56	10.61	10.24
			242T	61	10.53	9.95
				62	10.63	9.79
			SU	-	10.57	10.14

- SISO_Ant.1

Band	Channel	Frequency (MHz)	Tones	RU offset	Average Power (dB m)	Antenna Gain (dB i)	E.I.R.P. (dB m)
U-NII 1	Low	5 190	26T	0	9.69	-6.20	3.49
				9	9.70		3.50
				17	9.85		3.65
			52T	37	9.77		3.57
				41	9.78		3.58
				44	9.96		3.76
			106T	53	10.15		3.95
				54	10.12		3.92
				56	10.25		4.05
			242T	61	10.15		3.95
				62	10.30		4.10
			SU	-	10.02		3.82
	High	5 230	26T	0	10.17		3.97
				9	9.92		3.72
				17	10.04		3.84
			52T	37	10.21		4.01
				41	10.01		3.81
				44	10.17		3.97
			106T	53	10.53		4.33
				54	10.09		3.89
				56	10.61		4.41
			242T	61	10.53		4.33
				62	10.63		4.43
			SU	-	10.57		4.37

- SISO_Ant.2

Band	Channel	Frequency (MHz)	Tones	RU offset	Average Power (dB m)	Antenna Gain (dB i)	E.I.R.P. (dB m)
U-NII 1	Low	5 190	26T	0	10.42	-7.20	4.22
				9	10.59		4.39
				17	10.35		4.15
			52T	37	10.47		4.27
				41	10.11		3.91
				44	10.32		4.12
			106T	53	9.99		3.79
				54	10.14		3.94
				56	10.50		4.30
			242T	61	10.00		3.80
				62	10.03		3.83
			SU	-	10.31		4.11
	High	5 230	26T	0	10.25		4.05
				9	10.45		4.25
				17	9.94		3.74
			52T	37	10.32		4.12
				41	9.89		3.69
				44	9.99		3.79
			106T	53	9.97		3.77
				54	10.02		3.82
				56	10.24		4.04
			242T	61	9.95		3.75
				62	9.79		3.59
			SU	-	10.14		3.94

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)	
					Ant.1	Ant.2
U-NII 2A	Low	5 270	26T	0	10.27	10.11
				9	9.90	10.48
				17	10.12	9.98
			52T	37	10.33	10.19
				41	10.04	10.05
				44	10.24	10.07
			106T	53	10.55	10.01
				54	10.21	10.11
				56	10.51	10.31
			242T	61	10.55	10.04
				62	10.56	9.98
			SU	-	10.26	10.13
	High	5 310	26T	0	10.53	10.33
				9	10.23	10.43
				17	10.27	10.02
			52T	37	10.61	10.39
				41	10.20	9.89
				44	10.43	10.08
			106T	53	10.16	9.97
				54	10.20	10.02
				56	10.63	10.26
			242T	61	10.16	10.00
				62	10.75	9.85
			SU	-	10.63	10.15

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)	
					Ant.1	Ant.2
U-NII 2C	Low	5 510	26T	0	10.24	10.35
				9	9.92	10.42
				17	10.25	10.45
			52T	37	10.23	10.40
				41	10.12	10.43
				44	10.35	10.57
			106T	53	9.65	10.60
				54	9.78	10.56
				56	10.43	10.30
			242T	61	9.65	10.61
				62	10.48	10.35
			SU	-	10.21	10.13
	Middle	5 590	26T	0	9.71	9.92
				9	10.14	10.13
				17	9.72	10.23
			52T	37	9.88	9.99
				41	10.03	10.15
				44	9.82	10.05
			106T	53	9.63	10.17
				54	9.74	10.24
				56	9.85	10.02
			242T	61	9.63	10.23
				62	9.92	10.12
			SU	-	9.61	9.81
	High	5 670	26T	0	10.41	9.66
				9	10.20	10.07
				17	10.24	9.74
			52T	37	10.48	9.77
				41	10.24	10.09
				44	10.36	10.03
			106T	53	10.34	9.98
				54	10.43	10.22
				56	10.52	9.93
			242T	61	10.34	10.03
				62	10.63	10.02
			SU	-	10.42	9.73

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)	
					Ant.1	Ant.2
U-NII 3	Low	5 755	26T	0	9.56	10.15
				9	9.78	10.49
				17	9.52	9.86
			52T	37	10.33	10.25
				41	9.74	10.15
				44	9.64	9.98
			106T	53	9.73	10.65
				54	9.83	10.32
				56	9.81	10.38
			242T	61	9.73	10.22
				62	10.01	10.51
			SU	-	10.25	9.81
	High	5 795	26T	0	10.32	9.94
				9	10.09	10.31
				17	9.94	10.03
			52T	37	9.84	9.96
				41	9.90	9.94
				44	10.02	10.16
			106T	53	10.60	10.26
				54	10.27	10.03
				56	10.37	10.44
			242T	61	10.60	9.85
				62	10.44	10.49
			SU	-	10.46	9.63

- Straddle channel

Channel	Frequency (MHz)	Tones	RU offset	Band	Average power (dB m)	
					Ant.1	Ant.2
Straddle	5 710	26T	0	U-NII 2C	9.83	9.73
			9	U-NII 2C	9.91	9.84
			17	U-NII 3	9.93	9.97
		52T	37	U-NII 2C	9.87	9.78
			41	U-NII 2C	9.93	9.87
			44	U-NII 3	10.02	9.58
		106T	53	U-NII 2C	9.96	9.99
			54	U-NII 2C	10.07	10.05
			56	U-NII 2C	6.31	6.52
		242T	61	U-NII 3	5.78	5.94
				U-NII 2C	9.96	9.97
			62	U-NII 2C	8.22	8.36
		U-NII 3		2.31	2.46	
		SU	-	U-NII 2C	9.09	9.20
				U-NII 3	-1.36	-1.24

- SISO_Ant.1

Band	FCC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 190	23.98			-6.20	23.98
	5 230					
U-NII 2A	5 270		37.290	26.72	-5.30	
	5 310		38.020	26.80		
U-NII 2C	5 510		38.070	26.81	-4.20	
	5 590		38.000	26.80		
	5 670	37.620	26.75			
U-NII 3	5 755	30			-4.35	30
	5 795					

Band	IC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	99 % BW (MHz)	10+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 190	23.01	34.579	25.39	-6.20	23.01
	5 230		35.680	25.52		

Band	IC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	99 % BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 2A	5 270	23.98	35.094	26.45	-5.30	23.98
	5 310		35.914	26.55		
U-NII 2C	5 510		35.209	26.47	-4.20	
	5 590		35.413	26.49		
	5 670		35.818	26.54		
U-NII 3	5 755		30			
	5 795					

Band	Straddle channel Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 2C	5 710	23.98	34.280	26.35	-4.20	23.98
U-NII 3		30			-4.35	30

- SISO_Ant.2

Band	FCC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 190	23.98			-7.20	23.98
	5 230					
U-NII 2A	5 270		37.660	26.76	-6.80	
	5 310		38.060	26.80		
U-NII 2C	5 510		37.010	26.68	-6.90	
	5 590		37.730	26.77		
	5 670	38.010	26.80			
U-NII 3	5 755	30			-7.90	30
	5 795					

Band	IC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	99 % BW (MHz)	10+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 190	23.01	34.046	25.32	-7.20	23.01
	5 230		35.830	25.54		

Band	IC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	99 % BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 2A	5 270	23.98	35.528	26.51	-6.80	23.98
	5 310		35.978	26.56		
U-NII 2C	5 510		34.925	26.43	-6.90	
	5 590		35.567	26.51		
U-NII 3	5 670	30	35.645	26.52	-7.90	30
	5 755					
	5 795					

Band	Straddle channel Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 2C	5 710	23.98	34.040	26.32	-6.90	23.98
U-NII 3		30			-7.90	30

Remark;

1. E.I.R.P. (dB m) = Average Power (dB m) + Antenna Gain (dB i)

- MIMO

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)		
					Ant.1	Ant.2	Ant.1 + Ant.2
U-NII 1	Low	5 190	26T	0	9.31	10.23	12.80
				9	9.38	10.54	13.01
				17	9.75	10.72	13.27
			52T	37	9.07	10.50	12.85
				41	9.31	10.79	13.12
				44	9.63	10.71	13.21
			106T	53	9.54	10.64	13.14
				54	9.63	10.63	13.17
				56	9.43	10.53	13.03
			242T	61	9.69	10.67	13.22
				62	9.54	10.55	13.08
			SU	-	9.67	10.27	12.99
	Low	5 230	26T	0	9.36	10.17	12.79
				9	9.51	10.05	12.80
				17	9.55	9.91	12.74
			52T	37	9.58	10.33	12.98
				41	9.73	10.48	13.13
				44	9.63	10.71	13.21
			106T	53	9.30	10.14	12.75
				54	9.63	10.50	13.10
				56	9.41	10.21	12.84
			242T	61	9.71	10.55	13.16
				62	9.50	10.33	12.95
			SU	-	9.61	10.08	12.86

Band	Channel	Frequency (MHz)	Tones	RU offset	Average Power (dB m)	Antenna Gain (dB i)	E.I.R.P. (dB m)
U-NII 1	Low	5 190	26T	0	12.80	-3.68	9.12
				9	13.01		9.33
				17	13.27		9.59
			52T	37	12.85		9.17
				41	13.12		9.44
				44	13.21		9.53
			106T	53	13.14		9.46
				54	13.17		9.49
				56	13.03		9.35
			242T	61	13.22		9.54
				62	13.08		9.40
			SU	-	12.99		9.31
	High	5 230	26T	0	12.79		9.11
				9	12.80		9.12
				17	12.74		9.06
			52T	37	12.98		9.30
				41	13.13		9.45
				44	13.21		9.53
			106T	53	12.75		9.07
				54	13.10		9.42
				56	12.84		9.16
			242T	61	13.16		9.48
				62	12.95		9.27
			SU	-	12.86		9.18

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)		
					Ant.1	Ant.2	Ant.1 + Ant.2
U-NII 2A	Low	5 270	26T	0	9.56	10.12	12.86
				9	9.86	10.46	13.18
				17	9.53	9.89	12.72
			52T	37	9.58	10.21	12.92
				41	9.62	10.47	13.08
				44	9.93	10.23	13.09
			106T	53	9.73	10.53	13.16
				54	9.73	10.48	13.13
				56	9.49	10.26	12.90
			242T	61	9.84	10.51	13.20
				62	9.58	10.42	13.03
			SU	-	9.67	10.12	12.91
	Low	5 310	26T	0	9.62	10.25	12.96
				9	9.96	10.48	13.24
				17	9.53	9.89	12.72
			52T	37	9.85	10.38	13.13
				41	9.91	10.49	13.22
				44	10.09	10.47	13.29
			106T	53	9.81	10.63	13.25
				54	9.86	10.55	13.23
				56	9.51	10.22	12.89
			242T	61	9.95	10.58	13.29
				62	9.67	10.33	13.02
			SU	-	9.76	10.09	12.94

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)		
					Ant.1	Ant.2	Ant.1 + Ant.2
U-NII 2C	Low	5 510	26T	0	9.16	10.75	13.04
				9	9.84	10.80	13.36
				17	9.69	10.24	12.98
			52T	37	9.17	10.92	13.14
				41	9.96	10.84	13.43
				44	10.23	10.72	13.49
			106T	53	9.31	11.15	13.34
				54	9.59	11.05	13.39
				56	9.37	10.76	13.13
			242T	61	9.05	10.55	12.87
				62	9.49	10.76	13.18
			SU	-	9.81	10.60	13.23
	Middle	5 590	26T	0	9.11	10.45	12.84
				9	9.29	10.65	13.03
				17	9.75	10.61	13.21
			52T	37	9.20	10.63	12.98
				41	9.51	10.64	13.12
				44	9.73	10.63	13.21
			106T	53	9.33	10.86	13.17
				54	9.66	10.83	13.29
				56	9.28	10.68	13.05
			242T	61	9.52	10.75	13.19
				62	9.42	10.53	13.02
			SU	-	9.33	10.43	12.93
	High	5 670	26T	0	9.75	9.94	12.86
				9	10.13	10.14	13.15
				17	9.78	9.58	12.69
			52T	37	9.80	10.10	12.96
				41	10.22	10.17	13.21
				44	10.28	10.01	13.16
			106T	53	9.98	10.36	13.18
				54	10.35	10.46	13.42
				56	9.91	10.25	13.09
			242T	61	10.14	10.36	13.26
				62	10.11	10.10	13.12
			SU	-	9.98	10.03	13.02

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)		
					Ant.1	Ant.2	Ant.1 + Ant.2
U-NII 3	Low	5 755	26T	0	8.73	10.62	12.79
				9	9.54	11.52	13.65
				17	9.46	10.75	13.16
			52T	37	8.83	10.80	12.94
				41	8.51	10.39	12.56
				44	10.28	10.65	13.48
			106T	53	8.75	11.14	13.12
				54	9.02	11.25	13.29
				56	8.60	10.84	12.87
			242T	61	8.80	10.68	12.85
				62	9.42	11.23	13.43
			SU	-	9.27	11.15	13.32
	Low	5 795	26T	0	10.15	10.36	13.27
				9	9.87	10.27	13.08
				17	9.66	9.85	12.77
			52T	37	9.78	10.07	12.94
				41	10.22	10.30	13.27
				44	10.28	10.65	13.48
			106T	53	9.89	10.31	13.12
				54	10.33	10.53	13.44
				56	9.91	10.46	13.20
			242T	61	10.05	10.31	13.19
				62	10.11	10.23	13.18
			SU	-	9.83	10.03	12.94

- Straddle channel

Channel	Frequency (MHz)	Tones	RU offset	Band	Average power (dB m)				
					Ant.1	Ant.2	Ant.1 + Ant.2		
Straddle	5 710	26T	0	U-NII 2C	10.12	10.22	13.18		
			9	U-NII 2C	10.31	10.33	13.33		
			17	U-NII 3	9.49	9.76	12.64		
		52T	37	U-NII 2C	10.18	10.34	13.27		
			41	U-NII 2C	10.02	9.84	12.94		
			44	U-NII 3	10.22	9.89	13.07		
		106T	53	U-NII 2C	9.71	10.05	12.89		
			54	U-NII 2C	9.92	10.02	12.98		
			56	U-NII 2C	6.19	6.66	9.44		
		242T	61	U-NII 3	5.72	6.18	8.97		
				U-NII 2C	10.27	10.52	13.41		
			62	U-NII 2C	8.74	8.92	11.84		
		SU	-	U-NII 3	2.61	3.01	5.82		
				U-NII 2C	9.64	9.73	12.70		
						U-NII 3	-0.89	-0.65	2.24

Band	FCC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 190	23.98			-3.68	23.98
	5 230					
U-NII 2A	5 270		37.290	26.72	-3.01	
	5 310		38.020	26.80		
U-NII 2C	5 510		37.010	26.68	-2.44	
	5 590		37.730	26.77		
	5 670	37.620	26.75			
U-NII 3	5 755	30			-2.93	30
	5 795					

Band	IC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	99 % BW (MHz)	10+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 190	23.01	34.046	25.32	-3.68	23.01
	5 230		35.680	25.52		

Band	IC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	99 % BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 2A	5 270	23.98	35.094	26.45	-3.01	23.98
	5 310		35.914	26.55		
U-NII 2C	5 510		34.925	26.43	-2.44	
	5 590		35.413	26.49		
U-NII 3	5 755	30			-2.93	30
	5 795					

Band	Straddle channel Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 2C	5 710	23.98	74.520	29.72	-2.44	23.98
U-NII 3		30			-2.93	30

Remark;

1. E.I.R.P. (dB m) = Average Power (dB m) + Antenna Gain (dB i)
2. According to KDB 662911, average power of each port and antenna gain was combined by using below calculation.
 - Average power: $10 \log \{10^{(\text{Ant.1 power} / 10)} + 10^{(\text{Ant.2 power} / 10)}\}$
 - Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, \dots, G_N dB i
 - (i) If transmit signals are correlated, then
 Directional gain = $10 \log \left[\frac{10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20}}{N_{\text{ANT}}} \right]^2$ dB i [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

5.4.3. 11ax_HE80

- SISO

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)	
					Ant.1	Ant.2
U-NII 1	Middle	5 210	26T	0	9.87	9.60
				18	9.88	9.93
				36	10.01	9.91
			52T	37	9.83	9.57
				45	9.93	9.87
				52	10.06	9.93
			106T	53	9.73	9.67
				57	9.56	9.90
				60	9.97	10.09
			242T	61	9.80	9.75
				62	9.64	9.95
				64	10.12	9.62
			484T	65	10.02	9.79
				66	9.59	9.67
			SU	-	9.71	9.98

- SISO_Ant.1

Band	Channel	Frequency (MHz)	Tones	RU offset	Average Power (dB m)	Antenna Gain (dB i)	E.I.R.P. (dB m)
U-NII 1	Middle	5 210	26T	0	9.87	-6.20	3.67
				18	9.88		3.68
				36	10.01		3.81
			52T	37	9.83		3.63
				45	9.93		3.73
				52	10.06		3.86
			106T	53	9.73		3.53
				57	9.56		3.36
				60	9.97		3.77
			242T	61	9.80		3.6
				62	9.64		3.44
				64	10.12		3.92
			484T	65	10.02		3.82
				66	9.59		3.39
			SU	-	9.71		3.51

- SISO_Ant.2

Band	Channel	Frequency (MHz)	Tones	RU offset	Average Power (dB m)	Antenna Gain (dB i)	E.I.R.P. (dB m)
U-NII 1	Middle	5 210	26T	0	9.60	-7.20	2.4
				18	9.93		2.73
				36	9.91		2.71
			52T	37	9.57		2.37
				45	9.87		2.67
				52	9.93		2.73
			106T	53	9.67		2.47
				57	9.90		2.7
				60	10.09		2.89
			242T	61	9.75		2.55
				62	9.95		2.75
				64	9.62		2.42
			484T	65	9.79		2.59
				66	9.67		2.47
			SU	-	9.98		2.78

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)	
					Ant.1	Ant.2
U-NII 2A	Middle	5 290	26T	0	9.86	10.21
				18	9.99	10.31
				36	10.06	10.17
			52T	37	9.80	10.15
				45	9.98	10.29
				52	10.11	10.23
			106T	53	9.90	10.31
				57	9.66	10.41
				60	9.76	9.94
			242T	61	9.66	10.36
				62	9.72	10.55
				64	9.92	10.03
			484T	65	10.17	10.45
				66	9.59	10.17
			SU	-	9.60	10.41

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)	
					Ant.1	Ant.2
U-NII 2C	Low	5 530	26T	0	9.73	10.12
				18	9.52	9.99
				36	9.91	9.67
			52T	37	9.81	10.05
				45	9.55	9.96
				52	9.92	9.78
			106T	53	9.84	10.14
				57	9.63	10.01
				60	9.92	9.92
			242T	61	9.97	10.06
				62	9.57	10.06
				64	9.64	9.67
	484T	65	10.08	10.10		
		66	9.61	9.77		
	SU	-	9.65	10.11		
	High	5 610	26T	0	9.93	10.01
				18	9.81	10.01
				36	9.75	10.05
			52T	37	9.99	10.01
				45	9.78	9.94
				52	9.87	9.67
			106T	53	9.70	10.09
				57	9.85	10.02
				60	9.74	9.82
242T			61	10.22	10.05	
			62	9.90	10.19	
			64	9.63	10.02	
484T	65	9.83	10.13			
	66	9.71	9.70			
SU	-	9.87	10.12			

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)	
					Ant.1	Ant.2
U-NII 3	Middle	5 690	26T	0	9.79	10.07
				18	10.54	9.99
				36	10.48	10.23
			52T	37	9.73	10.07
				45	10.47	9.95
				52	10.62	10.21
			106T	53	10.32	10.31
				57	10.04	10.11
				60	9.90	10.12
			242T	61	9.97	10.45
				62	10.37	10.32
				64	9.96	10.22
			484T	65	9.96	10.41
				66	9.95	10.21
			SU	-	9.76	10.27

- Straddle channel

Channel	Frequency (MHz)	Tones	RU offset	Band	Average power (dB m)		
					Ant.1	Ant.2	
Straddle	5 690	26T	0	U-NII 2C	9.70	9.67	
			18	U-NII 2C	9.95	9.91	
			36	U-NII 3	9.87	9.86	
		52T	37	U-NII 2C	9.70	9.75	
			45	U-NII 2C	9.91	9.86	
			52	U-NII 3	9.97	9.81	
		106T	53	U-NII 2C	9.87	9.95	
			57	U-NII 2C	9.92	9.91	
			60	U-NII 2C	6.88	8.11	
				U-NII 3	6.64	7.83	
			242T	61	U-NII 2C	9.94	10.03
				62	U-NII 2C	10.05	10.11
		64		U-NII 2C	8.94	9.68	
				U-NII 3	3.10	3.99	
			484T	65	U-NII 2C	10.07	10.07
				66	U-NII 2C	9.70	10.35
			U-NII 3		0.16	0.91	
		SU			U-NII 2C	8.38	9.79
U-NII 3	2.67				-4.41		

- SISO_Ant.1

Band	FCC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 210	23.98			-6.20	23.98
U-NII 2A	5 290		75.260	29.77	-5.30	
U-NII 2C	5 530		78.510	29.95	-4.20	
	5 610	78.450	29.95			
U-NII 3	5 775	30			-4.35	30

Band	IC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	99 % BW (MHz)	10+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 210	23.01	74.307	28.71	-6.20	23.01

Band	IC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	99 % BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 2A	5 290	23.98	71.043	29.52	-5.30	23.98
U-NII 2C	5 530		73.171	29.64	-4.20	
	5 690		74.594	29.73		
U-NII 3	5 775	30			-4.35	30

Band	Straddle channel Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 2C	5 690	23.98			-4.20	23.98
U-NII 3		30			-4.35	30

- SISO_Ant.2

Band	FCC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 210	23.98			-7.20	23.98
U-NII 2A	5 290		78.270	29.94	-6.80	
U-NII 2C	5 530		78.200	29.93	-6.90	
	5 610	78.380	29.94			
U-NII 3	5 775	30			-7.90	30

Band	IC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	99 % BW (MHz)	10+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 210	23.01	74.085	28.70	-7.20	23.01

Band	IC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	99 % BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 2A	5 290	23.98	72.971	29.63	-6.80	23.98
U-NII 2C	5 530		74.478	29.72	-6.90	
	5 690		74.539	29.72		
U-NII 3	5 775	30			-7.90	30

Band	Straddle channel Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 2C	5 690	23.98			-6.90	23.98
U-NII 3		30			-7.90	30

Remark;

1. E.I.R.P. (dB m) = Average Power (dB m) + Antenna Gain (dB i)

- MIMO

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)		
					Ant.1	Ant.2	Ant.1 + Ant.2
U-NII 1	Middle	5 210	26T	0	9.44	10.55	13.04
				18	9.30	10.40	12.90
				36	9.46	10.34	12.93
			52T	37	9.49	10.67	13.13
				45	9.44	10.33	12.92
				52	9.78	10.31	13.06
			106T	53	9.67	10.74	13.25
				57	9.60	10.41	13.03
				60	9.86	10.53	13.22
			242T	61	9.80	10.83	13.36
				62	9.68	10.31	13.02
				64	9.63	10.13	12.90
			484T	65	9.53	10.38	12.99
				66	9.66	10.24	12.97
			SU	-	9.55	10.41	13.01

Band	Channel	Frequency (MHz)	Tones	RU offset	Average Power (dB m)	Antenna Gain (dB i)	E.I.R.P. (dB m)
U-NII 1	Middle	5 210	26T	0	13.04	-3.68	9.36
				18	12.90		9.22
				36	12.93		9.25
			52T	37	13.13		9.45
				45	12.92		9.24
				52	13.06		9.38
			106T	53	13.25		9.57
				57	13.03		9.35
				60	13.22		9.54
			242T	61	13.36		9.68
				62	13.02		9.34
				64	12.90		9.22
			484T	65	12.99		9.31
				66	12.97		9.29
			SU	-	13.01		9.33

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)		
					Ant.1	Ant.2	Ant.1 + Ant.2
U-NII 2A	Middle	5 290	26T	0	9.82	11.05	13.49
				18	9.53	10.65	13.14
				36	9.71	10.53	13.15
			52T	37	9.87	11.13	13.56
				45	9.54	10.54	13.08
				52	9.76	10.51	13.16
			106T	53	9.97	11.21	13.64
				57	9.61	10.77	13.24
				60	9.83	10.75	13.32
			242T	61	10.04	11.18	13.66
				62	9.79	10.77	13.32
				64	9.50	10.38	12.97
			484T	65	9.66	10.85	13.31
				66	9.56	10.53	13.08
			SU	-	9.62	10.68	13.19

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)		
					Ant.1	Ant.2	Ant.1 + Ant.2
U-NII 2C	Low	5 530	26T	0	9.47	10.92	13.27
				18	9.15	10.24	12.74
				36	9.79	9.81	12.81
			52T	37	9.49	10.98	13.31
				45	9.21	10.19	12.74
				52	9.84	9.89	12.88
			106T	53	9.39	10.96	13.26
				57	9.24	10.30	12.81
				60	9.46	10.15	12.83
			242T	61	9.59	10.93	13.32
				62	9.48	10.30	12.92
				64	9.67	10.34	13.03
	484T	65	9.23	10.43	12.88		
		66	9.23	10.07	12.68		
	SU	-	9.21	10.28	12.79		
	High	5 610	26T	0	9.76	10.66	13.24
				18	9.28	10.28	12.82
				36	9.72	9.59	12.67
			52T	37	9.74	10.73	13.27
				45	9.42	10.22	12.85
				52	9.87	9.65	12.77
			106T	53	9.76	10.91	13.38
				57	9.51	10.26	12.91
				60	9.52	10.13	12.85
242T			61	9.94	10.95	13.48	
			62	9.87	10.32	13.11	
			64	9.75	10.23	13.01	
484T	65	9.63	10.38	13.03			
	66	9.36	9.95	12.68			
SU	-	9.44	10.33	12.92			

Band	Channel	Frequency (MHz)	Tones	RU offset	Average power (dB m)		
					Ant.1	Ant.2	Ant.1 + Ant.2
U-NII 3	Middle	5 690	26T	0	10.49	10.61	13.56
				18	10.08	10.16	13.13
				36	10.02	10.33	13.19
			52T	37	10.51	10.74	13.64
				45	10.11	10.11	13.12
				52	10.07	10.31	13.20
			106T	53	10.14	10.58	13.38
				57	10.15	10.29	13.23
				60	10.09	10.74	13.44
			242T	61	10.23	10.61	13.43
				62	10.31	10.43	13.38
				64	9.90	10.33	13.13
			484T	65	10.23	10.58	13.42
				66	10.03	10.30	13.18
			SU	-	10.18	10.41	13.31

- Straddle channel

Channel	Frequency (MHz)	Tones	RU offset	Band	Average power (dB m)		
					Ant.1	Ant.2	Ant.1 + Ant.2
Straddle	5 690	26T	0	U-NII 2C	9.61	10.51	13.09
			18	U-NII 2C	9.05	10.15	12.65
			36	U-NII 3	9.41	9.91	12.68
		52T	37	U-NII 2C	9.56	10.58	13.11
			45	U-NII 2C	9.19	10.05	12.65
			52	U-NII 3	9.41	9.96	12.70
		106T	53	U-NII 2C	9.65	10.75	13.25
			57	U-NII 2C	9.07	10.15	12.65
			60	U-NII 2C	6.67	8.91	10.94
		U-NII 3		6.21	8.47	10.50	
		242T	61	U-NII 2C	9.77	10.79	13.32
			62	U-NII 2C	9.41	10.22	12.84
				U-NII 2C	8.84	10.62	12.83
		484T	64	U-NII 3	2.96	4.96	7.08
				65	U-NII 2C	9.31	10.30
			66	U-NII 2C	9.56	11.29	13.52
		U-NII 3		-0.01	1.98	4.11	
		SU	-	U-NII 2C	8.18	10.35	12.41
U-NII 3	-6.04			-3.89	-1.82		

Band	FCC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 210	23.98			-3.68	23.98
U-NII 2A	5 290		75.260	29.77	-3.01	
U-NII 2C	5 530		78.200	29.93	-2.44	
	5 610	78.380	29.94			
U-NII 3	5 775	30			-2.93	30

Band	IC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	99 % BW (MHz)	10+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 1	5 210	23.01	74.085	28.70	-3.68	23.01

Band	IC Limit					
	Frequency (MHz)	Fixed Limit (dB m)	99 % BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 2A	5 290	23.98	71.043	29.52	-2.44	23.98
U-NII 2C	5 530		73.171	29.64		
	5 690		74.539	29.72		
U-NII 3	5 775	30			-2.93	30

Band	Straddle channel Limit					
	Frequency (MHz)	Fixed Limit (dB m)	26 dB BW (MHz)	11+10LogB (dB m)	Antenna Gain (dB i)	Limit (dB m)
U-NII 2C	5 690	23.98			-2.44	23.98
U-NII 3		30			-2.93	30

Remark;

1. E.I.R.P. (dB m) = Average Power (dB m) + Antenna Gain (dB i)
2. According to KDB 662911, average power of each port and antenna gain was combined by using below calculation.
 - Average power: $10 \log \{10^{(Ant.1 \text{ power} / 10)} + 10^{(Ant.2 \text{ power} / 10)}\}$
 - Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, \dots, G_N dB i
 - (i) If transmit signals are correlated, then
 Directional gain = $10 \log \left[\frac{10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20}}{N_{ANT}} \right]^2$ dB i [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

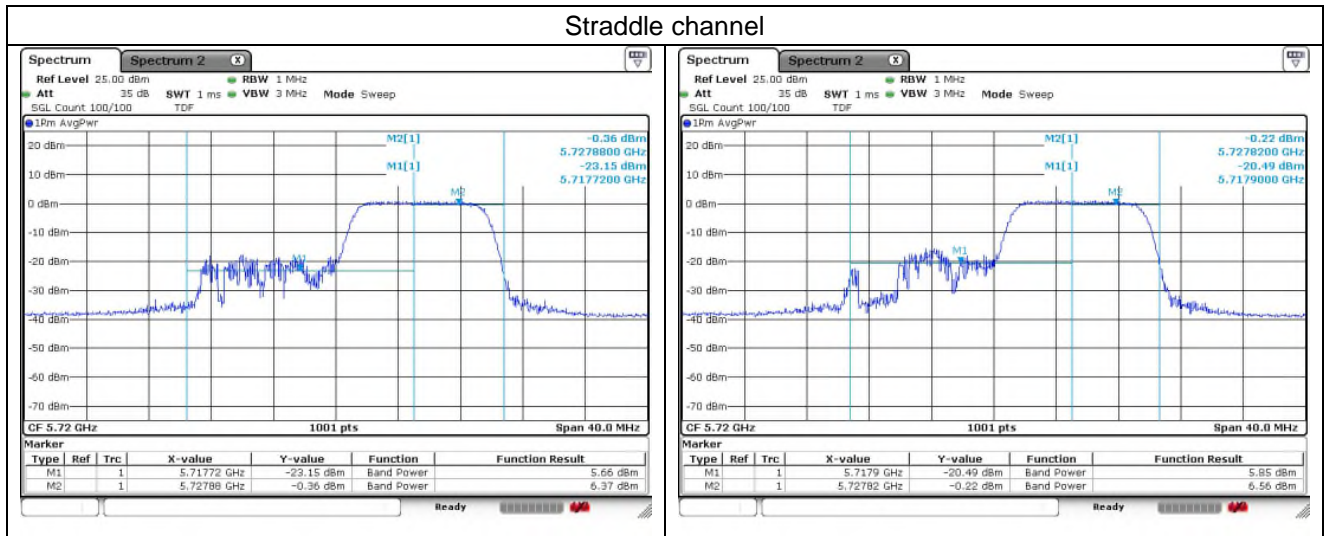
- Test plots

- SISO

802.11ax_HE20 Band 2C/Band 3_106T_54 RU

Ant.1

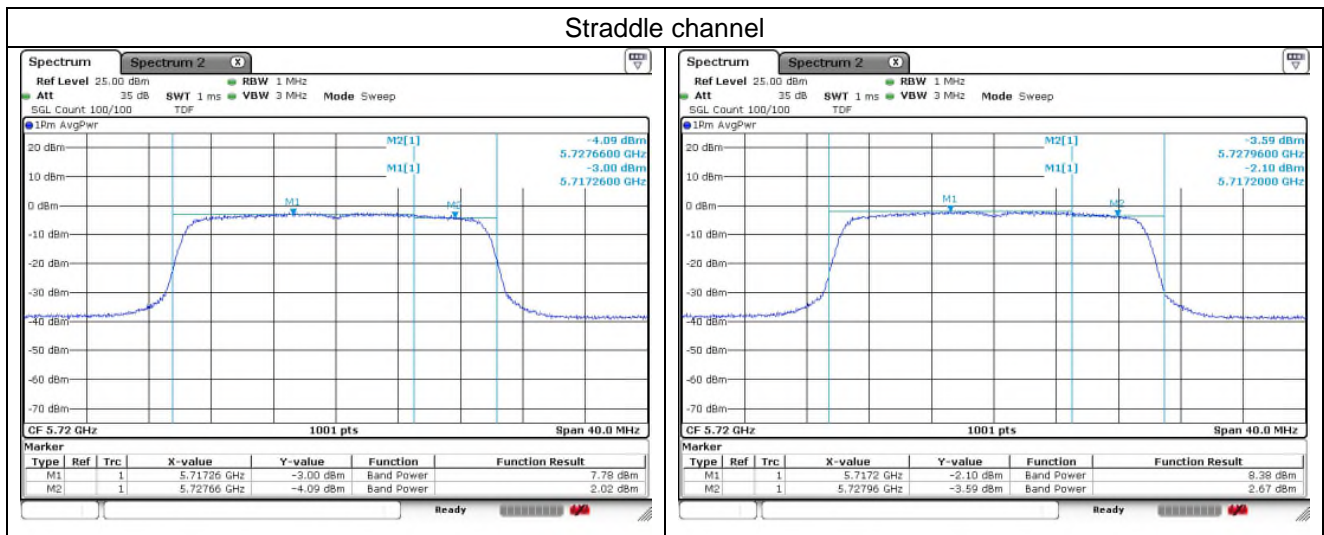
Ant.2



802.11ax_HE20 Band 2C/Band 3_SU

Ant.1

Ant.2



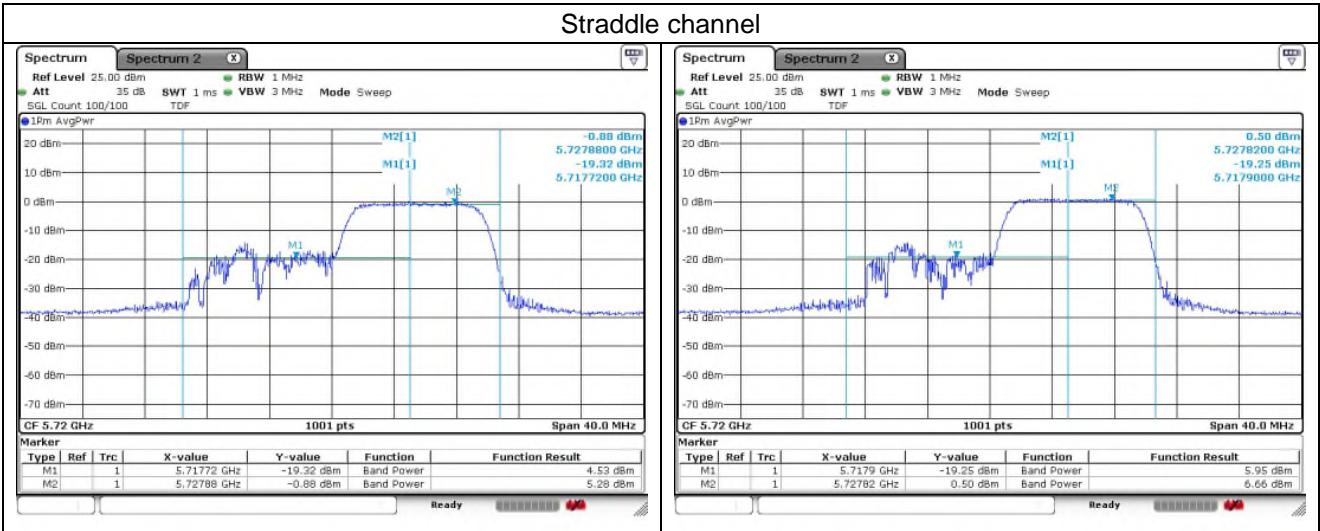
- MIMO

802.11ax_HE20 Band 2C/Band 3_106T_54 RU

Ant.1

Ant.2

Straddle channel

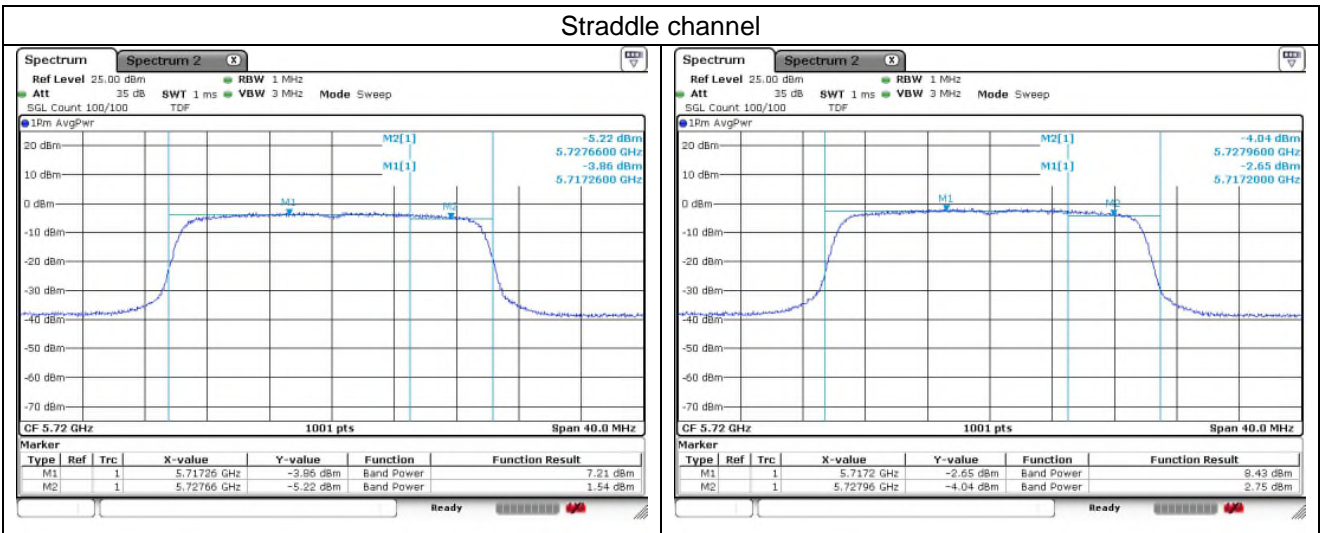


802.11ax_HE20 Band 2C/Band 3_SU

Ant.1

Ant.2

Straddle channel

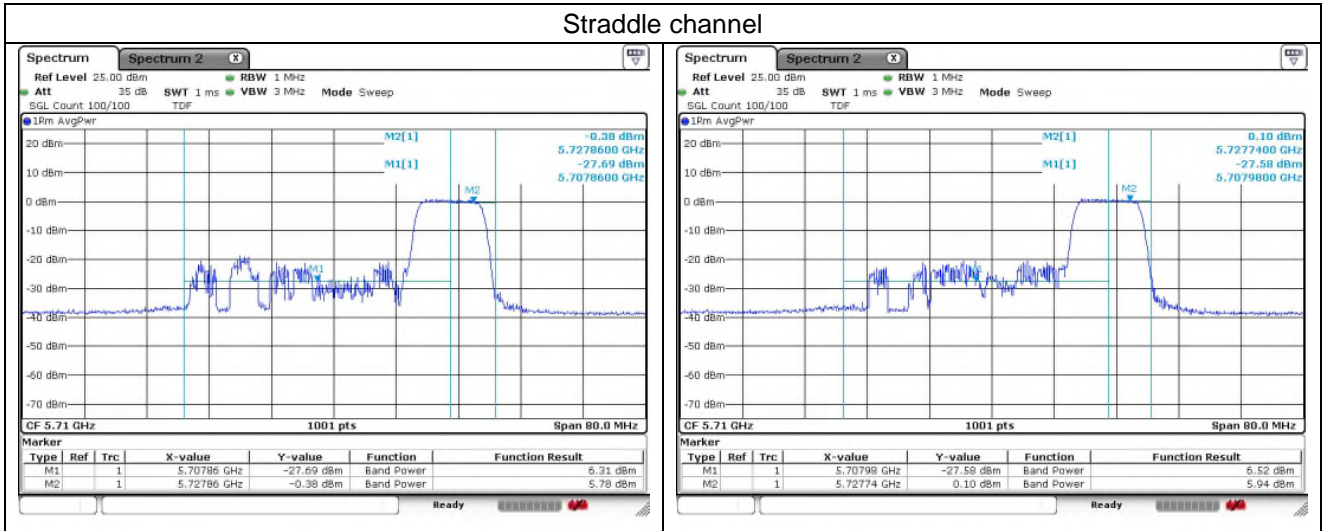


- SISO

802.11ax_HE40 Band 2C/Band 3_106T_56 RU

Ant.1

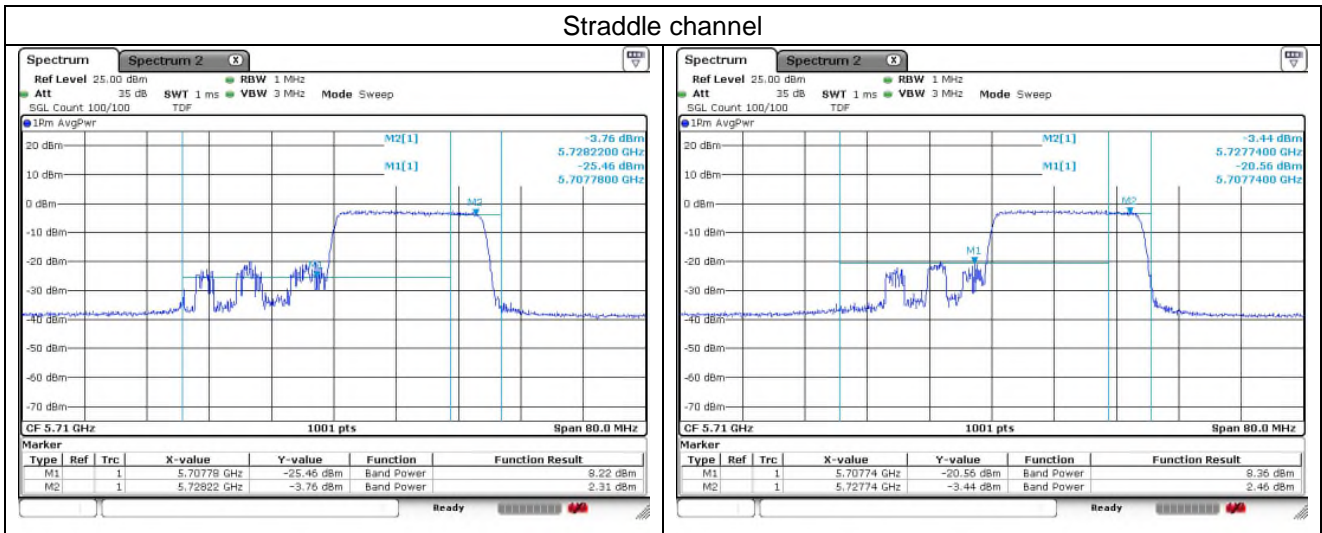
Ant.2



802.11ax_HE40 Band 2C/Band 3_242T_62 RU

Ant.1

Ant.2

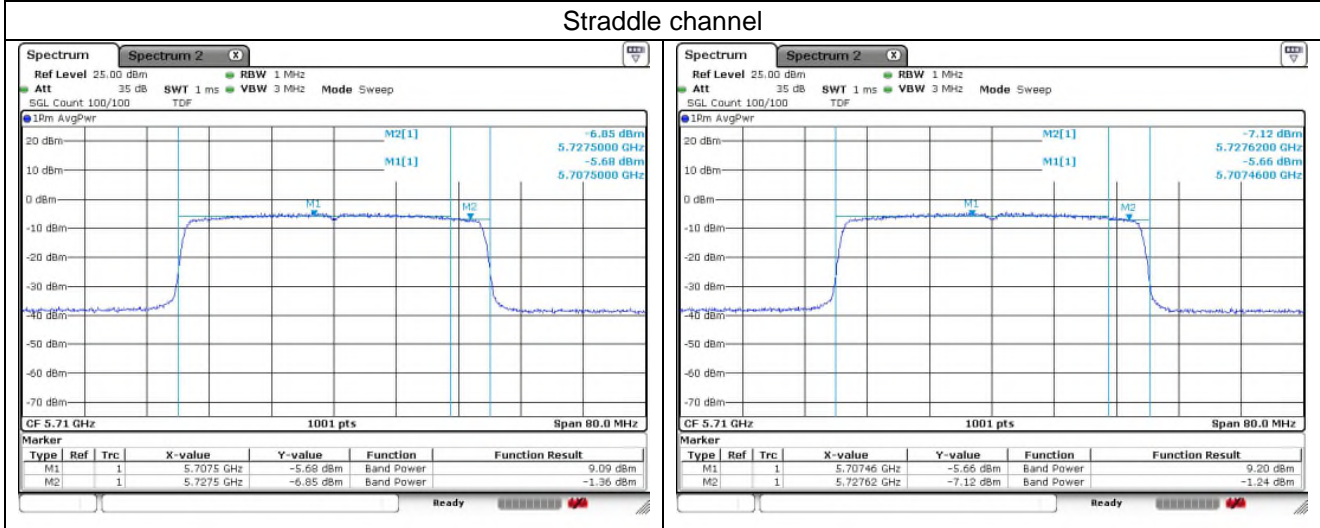


802.11ax_HE40 Band 2C/Band 3_SU

Ant.1

Ant.2

Straddle channel



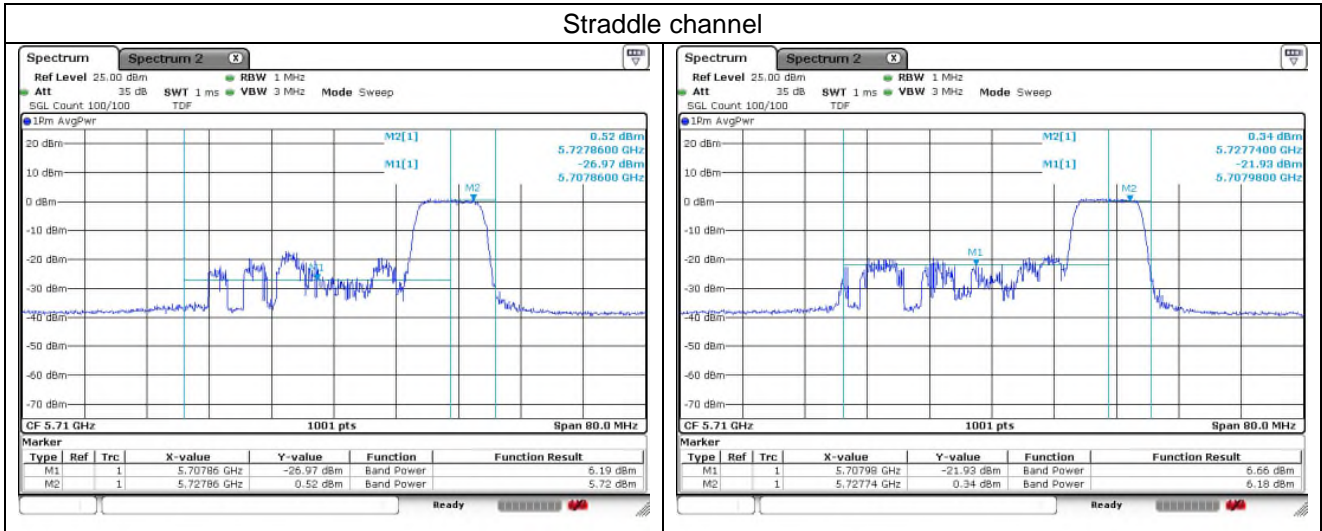
- MIMO

802.11ax_HE40 Band 2C/Band 3_106T_56 RU

Ant.1

Ant.2

Straddle channel

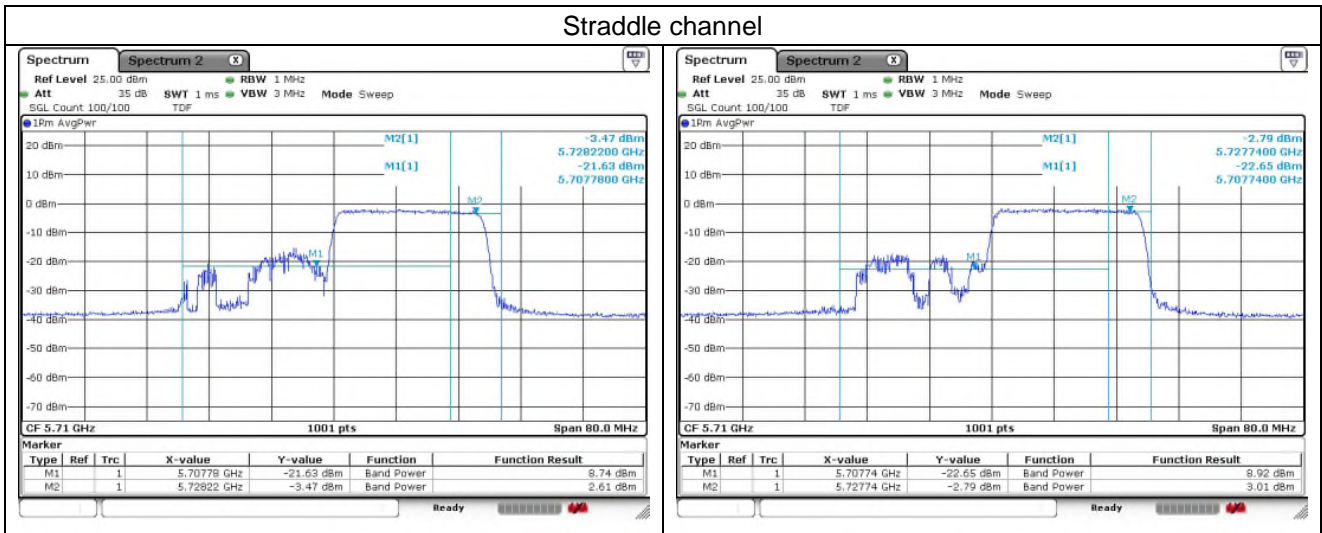


802.11ax_HE40 Band 2C/Band 3_242T_62 RU

Ant.1

Ant.2

Straddle channel

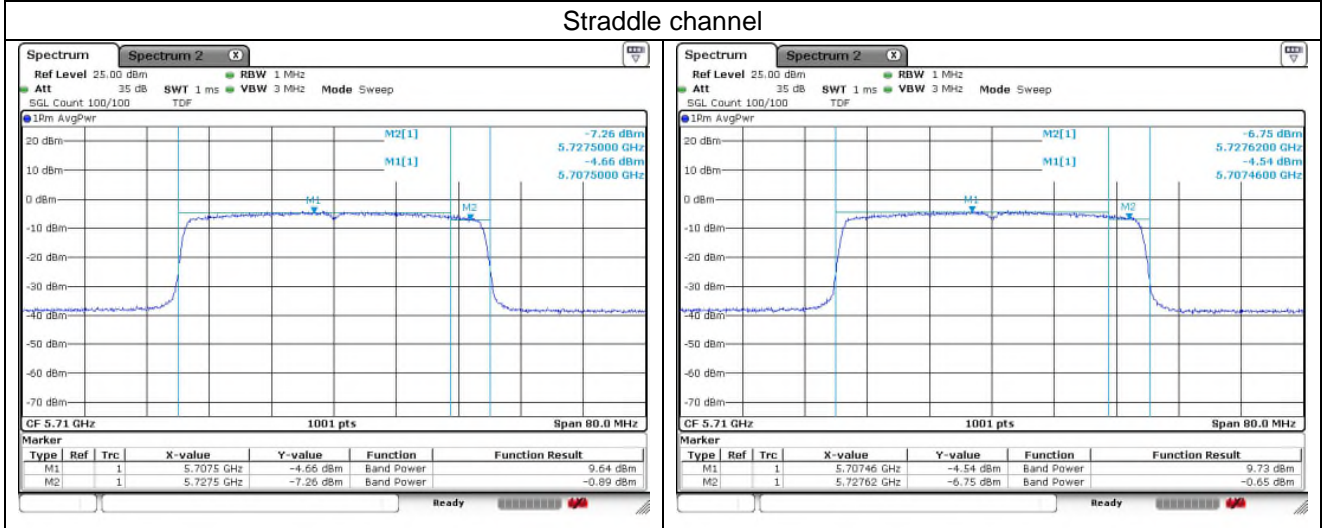


802.11ax_HE40 Band 2C/Band 3_SU

Ant.1

Ant.2

Straddle channel



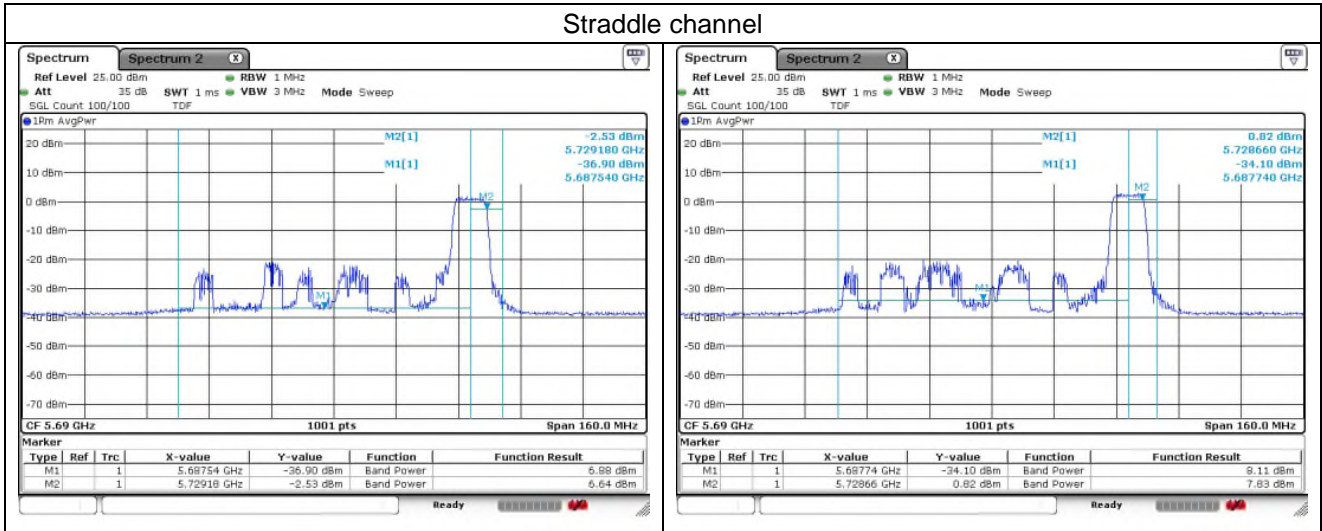
- SISO

802.11ax_HE80 Band 2C/Band 3_106T_60 RU

Ant.1

Ant.2

Straddle channel

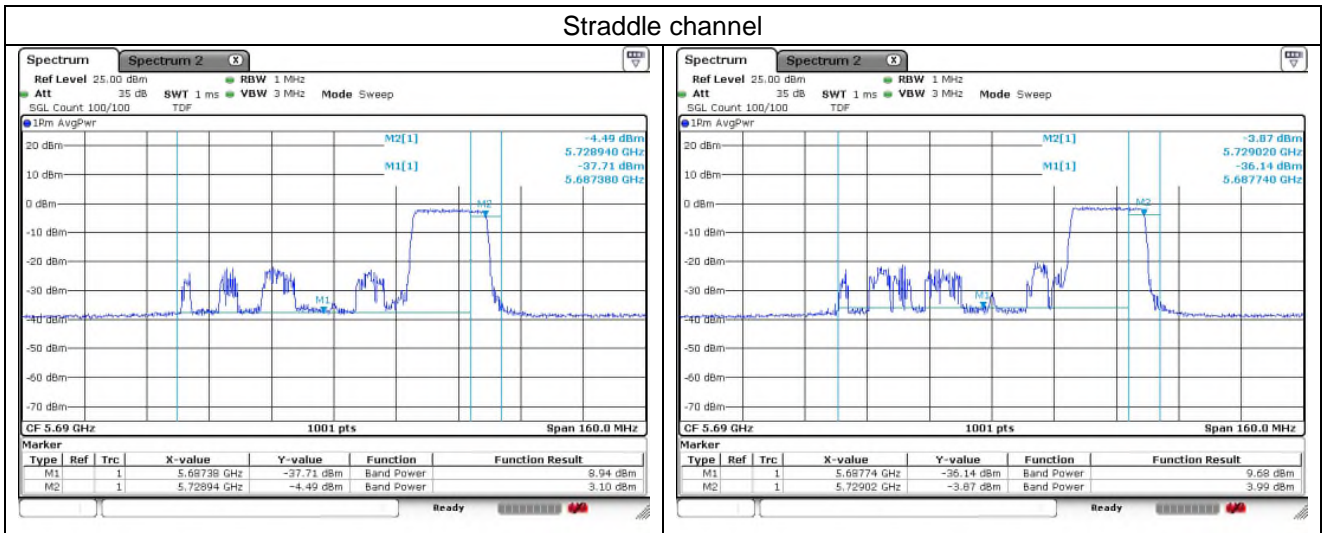


802.11ax_HE80 Band 2C/Band 3_242T_64 RU

Ant.1

Ant.2

Straddle channel

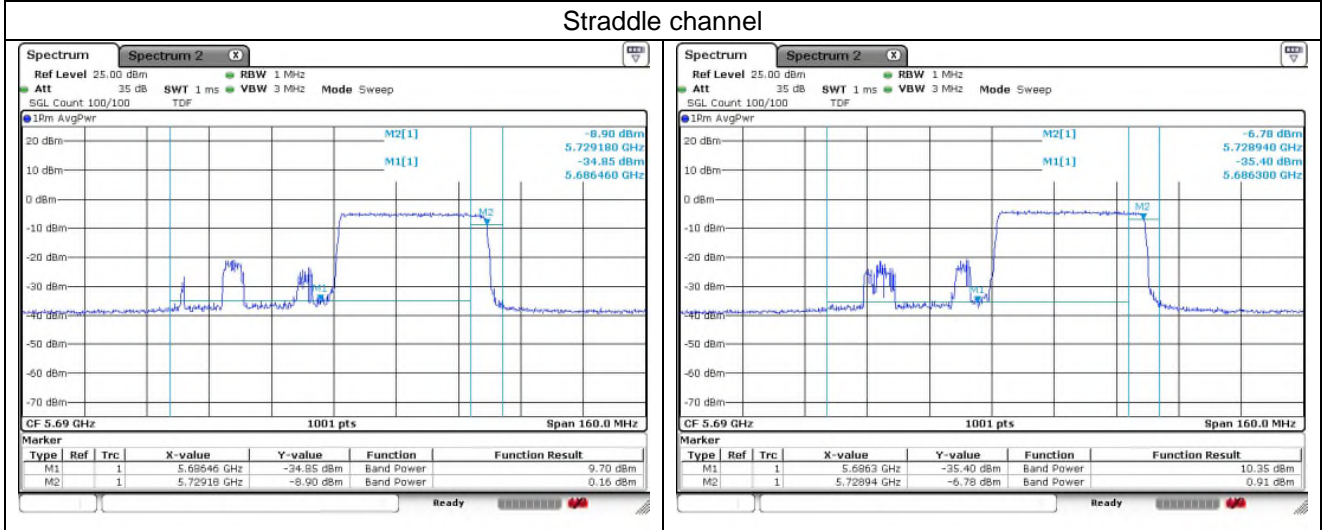


802.11ax_HE80 Band 2C/Band 3_484T_66 RU

Ant.1

Ant.2

Straddle channel

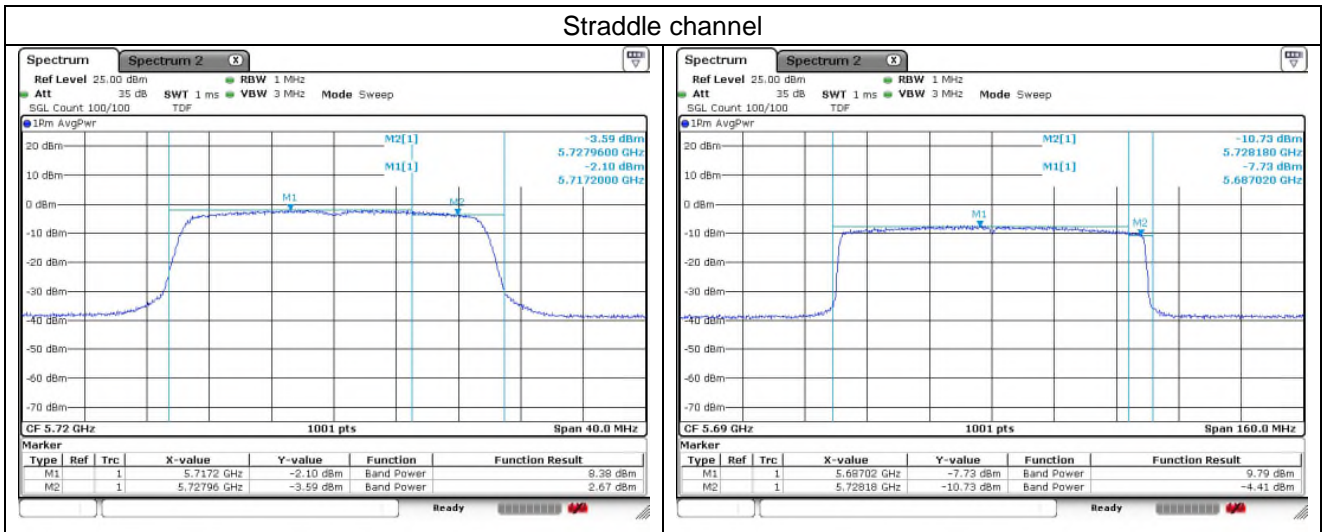


802.11ax_HE80 Band 2C/Band 3_SU

Ant.1

Ant.2

Straddle channel



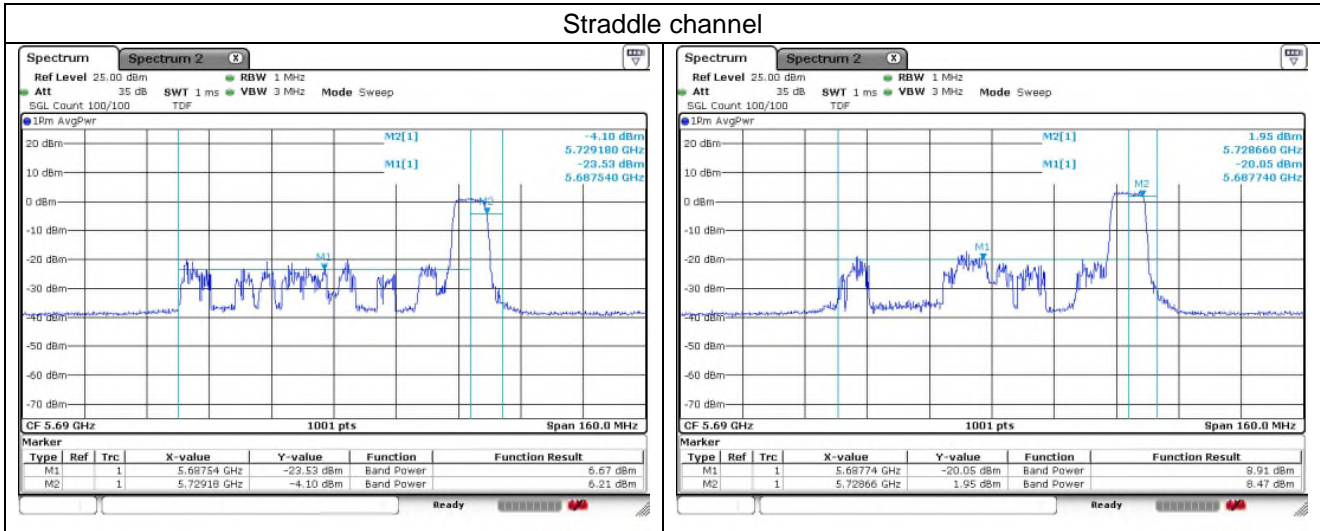
- MIMO

802.11ax_HE80 Band 2C/Band 3_106T_60 RU

Ant.1

Ant.2

Straddle channel

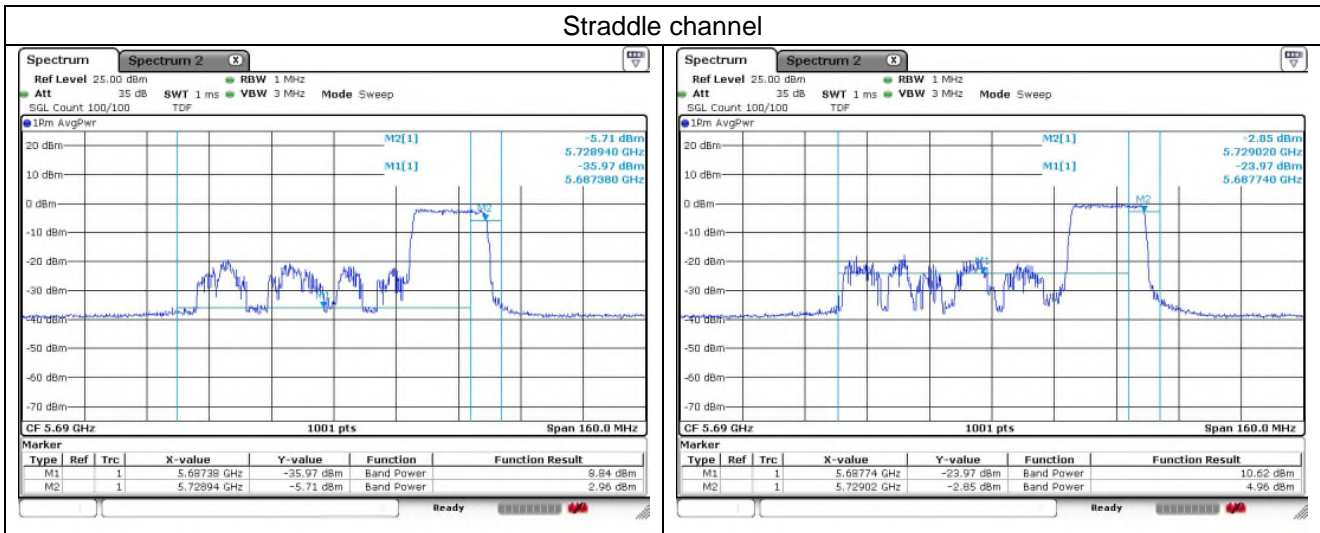


802.11ax_HE80 Band 2C/Band 3_242T_64 RU

Ant.1

Ant.2

Straddle channel

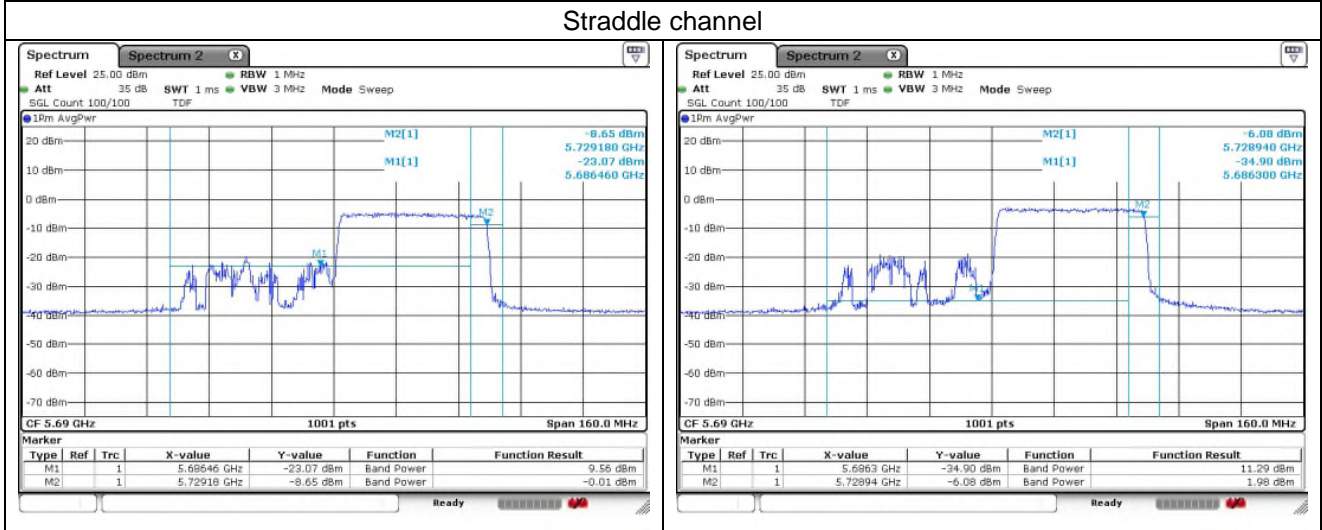


802.11ax_HE80 Band 2C/Band 3_484T_66 RU

Ant.1

Ant.2

Straddle channel

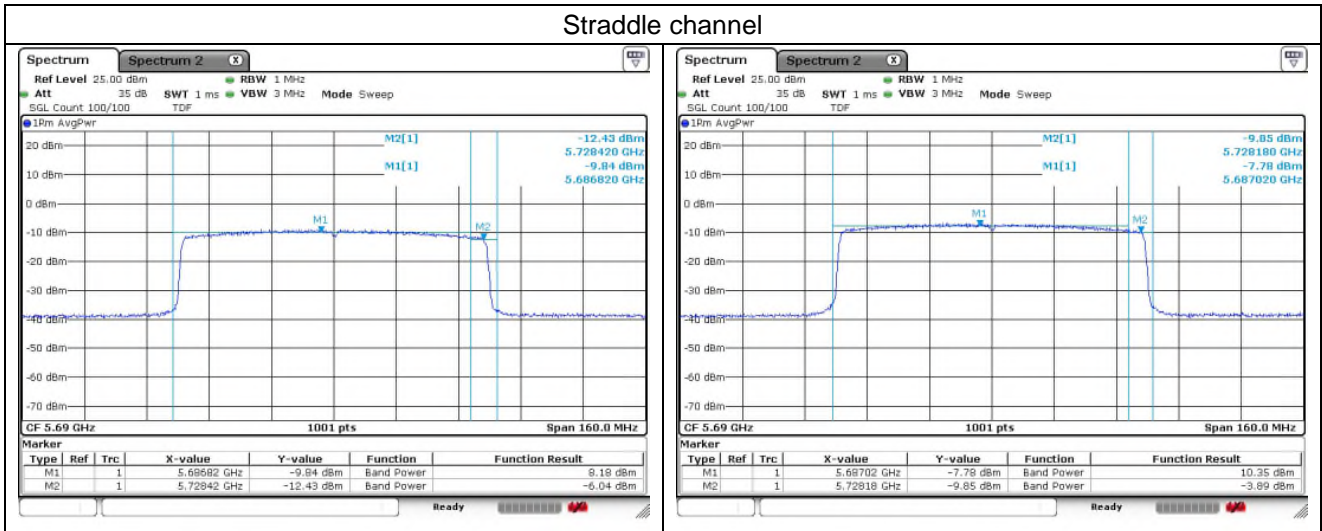


802.11ax_HE80 Band 2C/Band 3_SU

Ant.1

Ant.2

Straddle channel



6. Power Spectral Density

6.1. Test Setup



6.2. Limit

6.2.1. FCC

According to 15.407(a)(1)(iv)

For 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.

According to 15.407(a)(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.

According to 15.407(a)(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.

6.2.2. IC

According to RSS-247 Issue 2,

6.2.2.1 Frequency band 5 150-5 250 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10}B$, dB m, whichever is less. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10}B$, dB m, whichever power is less. B is the 99 % emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dB m in any 1.0 MHz band.

6.2.2.1 Frequency band 5 250-5 350 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10}B$, dB m, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

Devices, other than devices installed in vehicles, shall comply with the following:

a) The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dB m, whichever is less. The power spectral density shall not exceed 11 dB m in any 1.0 MHz band;

b) The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dB m, whichever is less. B is the 99 % emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

6.2.3.1 Frequency band 5 470-5 600 MHz and 5 650-5 725 MHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10}B$, dB m, whichever is less. The power spectral density shall not exceed 11 dB m in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10}B$, dB m, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

6.2.4.1 Frequency band 5 725-5 850 MHz

For equipment operating in the band 5 725-5 850 MHz, the minimum 6 dB bandwidth shall be at least 500 kHz. The maximum conducted output power shall not exceed 1 W. The output power spectral density shall not exceed 30 dB m in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dB i are used, both the maximum conducted output power and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB i. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dB i without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint³ systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

6.3. Test Procedure

All data rates and modes were investigated for this test. The full data for the worst case data rate are reported in this section.

1. This measurement settings are specified in section II.F of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
2. Create an average power spectrum for the EUT operating mode being tested by following the instructions in section II.E.2. for measuring maximum conducted output power using a spectrum analyzer or EMI receiver: select the appropriate test method (SA-1, SA-2, SA-3, or alternatives to each) and apply it up to, but not including, the step labeled, "Compute power...". (This procedure is required even if the maximum conducted output power measurement was performed using a power meter, method PM.)
3. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
4. Make the following adjustments to the peak value of the spectrum, if applicable:
 - a) **If Method SA-2 or SA-2 Alternative was used, add $10 \log(1/x)$, where x is the duty cycle, to the peak of the spectrum.**
 - b) If Method SA-3 Alternative was used and the linear mode was used in step II.E.2.g)(viii), add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.
5. The result is the Maximum PSD over 1 MHz reference bandwidth.
6. For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 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 a 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 $RBW \geq 1/T$, where T is defined in section II.B.1.a).
 - b) Set $VBW \geq 3$ RBW.
 - c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10 \log(500 \text{ kHz}/RBW)$ 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 $10 \log(1 \text{ MHz}/RBW)$ 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.
7. In case of band crossing channels 138, 142 and 144, the measurement is complied with section III.A of KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

6.4. Test Result

Ambient temperature : (23 ± 1) °C
 Relative humidity : 47 % R.H.

6.4.1. 11ax_HE20

- SISO

U-NII 1 Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)		Limit (dB m/1 MHz)
				Ant.1	Ant.2	
Low	5 180	26T	0	7.50	7.49	11
			4	6.38	6.29	
			8	7.40	7.46	
		52T	37	4.84	4.75	
			38	4.92	4.87	
			40	4.72	5.06	
		106T	53	1.91	2.04	
			54	2.51	2.20	
		SU	-	-1.34	-1.52	
		Middle	5 220	26T	0	
4	6.27				6.24	
8	7.57				7.73	
52T	37			4.68	4.78	
	38			5.10	4.80	
	40			4.71	4.68	
106T	53			1.88	2.00	
	54			2.51	2.05	
SU	-			-1.45	-1.38	
High	5 240			26T	0	7.45
		4	6.63		6.36	
		8	7.34		7.46	
		52T	37	4.87	4.56	
			38	4.89	4.86	
			40	4.74	4.66	
		106T	53	1.91	2.82	
			54	2.75	2.08	
		SU	-	-1.23	-1.54	

U-NII 1 Band_Ant.1

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)	Antenna Gain (dB i)	E.I.R.P. PSD (dB m)	IC Limit (dB m/1 MHz)
Low	5 180	26T	0	7.50	-6.20	1.30	10
			4	6.38		0.18	
			8	7.40		1.20	
		52T	37	4.84		-1.36	
			38	4.92		-1.28	
			40	4.72		-1.48	
		106T	53	1.91		-4.29	
			54	2.51		-3.69	
		SU	-	-1.34		-7.54	
		Middle	5 220	26T		0	
4	6.27				0.07		
8	7.57				1.37		
52T	37			4.68	-1.52		
	38			5.10	-1.10		
	40			4.71	-1.49		
106T	53			1.88	-4.32		
	54			2.51	-3.69		
SU	-			-1.45	-7.65		
High	5 240			26T	0	7.45	1.25
		4	6.63		0.43		
		8	7.34		1.14		
		52T	37	4.87	-1.33		
			38	4.89	-1.31		
			40	4.74	-1.46		
		106T	53	1.91	-4.29		
			54	2.75	-3.45		
		SU	-	-1.23	-7.43		

U-NII 1 Band_Ant.2

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)	Antenna Gain (dB i)	E.I.R.P. PSD (dB m)	IC Limit (dB m/1 MHz)
Low	5 180	26T	0	7.49	-7.20	0.29	10
			4	6.29		-0.91	
			8	7.46		0.26	
		52T	37	4.75		-2.45	
			38	4.87		-2.33	
			40	5.06		-2.14	
		106T	53	2.04		-5.16	
			54	2.20		-5.00	
		SU	-	-1.52		-8.72	
		Middle	5 220	26T		0	
4	6.24				-0.96		
8	7.73				0.53		
52T	37			4.78	-2.42		
	38			4.80	-2.40		
	40			4.68	-2.52		
106T	53			2.00	-5.2		
	54			2.05	-5.15		
SU	-			-1.38	-8.58		
High	5 240			26T	0	7.42	0.22
		4	6.36		-0.84		
		8	7.46		0.26		
		52T	37	4.56	-2.64		
			38	4.86	-2.34		
			40	4.66	-2.54		
		106T	53	2.82	-4.38		
			54	2.08	-5.12		
		SU	-	-1.54	-8.74		

U-NII 2A Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)		Limit (dB m/1 MHz)
				Ant.1	Ant.2	
Low	5 260	26T	0	7.52	7.46	11
			4	6.62	6.48	
			8	7.40	7.42	
		52T	37	5.01	4.52	
			38	4.82	4.58	
			40	4.85	4.70	
		106T	53	1.97	1.74	
			54	2.51	1.54	
		SU	-	-1.27	-1.46	
		Middle	5 300	26T	0	
4	6.38				6.51	
8	7.49				7.51	
52T	37			4.93	4.88	
	38			4.85	4.65	
	40			4.76	4.69	
106T	53			1.99	1.84	
	54			2.51	2.01	
SU	-			-1.38	-1.40	
High	5 320			26T	0	7.46
		4	6.03		6.33	
		8	7.40		7.04	
		52T	37	4.90	4.83	
			38	4.73	4.53	
			40	4.49	4.57	
		106T	53	1.77	2.23	
			54	2.28	1.62	
		SU	-	-1.43	-1.63	

U-NII 2C Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)		Limit (dB m/1 MHz)
				Ant.1	Ant.2	
Low	5 500	26T	0	7.46	7.11	11
			4	6.44	6.01	
			8	7.77	7.08	
		52T	37	4.63	4.45	
			38	4.66	4.24	
			40	4.62	4.62	
		106T	53	1.82	1.48	
			54	2.52	1.55	
		SU	-	-1.68	-2.01	
		Middle	5 580	26T	0	
4	6.36				6.82	
8	7.56				7.85	
52T	37			4.95	5.32	
	38			4.96	5.27	
	40			4.81	5.28	
106T	53			1.93	2.37	
	54			2.37	2.24	
SU	-			-1.39	-0.94	
High	5 700			26T	0	7.10
		4	6.16		5.99	
		8	6.95		7.10	
		52T	37	4.47	4.46	
			38	4.45	4.56	
			40	4.54	4.28	
		106T	53	1.28	1.51	
			54	1.86	1.62	
		SU	-	-1.88	-1.75	

U-NII 3 Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)		Limit (dB m/1 MHz)
				Ant.1	Ant.2	
Low	5 745	26T	0	4.37	5.01	11
			4	4.26	4.61	
			8	4.81	4.90	
		52T	37	2.07	2.04	
			38	2.30	2.28	
			40	2.35	1.96	
		106T	53	-0.72	-0.98	
			54	-0.14	-0.85	
		SU	-	-3.80	-3.87	
		Middle	5 785	26T	0	
4	4.65				5.26	
8	5.41				5.22	
52T	37			2.85	2.20	
	38			2.69	2.75	
	40			2.49	2.52	
106T	53			-0.47	-0.34	
	54			0.19	-0.45	
SU	-			-3.58	-3.93	
High	5 825			26T	0	5.05
		4	4.56		5.00	
		8	5.21		5.33	
		52T	37	2.91	2.54	
			38	2.72	2.70	
			40	2.76	2.42	
		106T	53	-0.06	-0.59	
			54	0.28	-0.64	
		SU	-	-3.41	-3.75	

- Straddle channel

Channel	Frequency (MHz)	Tones	RU offset	Band	PSD (dB m)		Limit (dB m/1 MHz or dB m/500 kHz)
					Ant.1	Ant.2	
Straddle	5 720	26T	0	U-NII 2C	7.62	6.99	11
			4	U-NII 2C	6.52	6.10	11
			8	U-NII 3	5.22	4.35	30
		52T	37	U-NII 2C	4.88	4.17	11
			38	U-NII 2C	5.22	4.23	11
			40	U-NII 3	1.98	1.75	30
		106T	53	U-NII 2C	2.21	1.55	11
			54	U-NII 2C	0.56	0.72	11
				U-NII 3	-2.20	-1.96	30
		SU	-	U-NII 2C	-2.53	-2.03	11
				U-NII 3	-6.05	-5.20	30

Remark;

- E.I.R.P. PSD (dB m) = PSD (dB m) + Antenna Gain (dB i)

- MIMO

U-NII 1 Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)			Limit (dB m/1 MHz)
				Ant.1	Ant.2	Ant.1 + Ant.2	
Low	5 180	26T	0	5.95	6.79	9.40	11
			4	5.22	6.19	8.74	
			8	6.03	6.91	9.50	
		52T	37	3.63	4.16	6.91	
			38	3.39	4.68	7.09	
			40	3.33	4.29	6.85	
		106T	53	0.36	1.63	4.05	
			54	0.45	1.54	4.04	
		SU	-	-2.83	-1.95	0.64	
		Middle	5 220	26T	0	5.73	
4	4.69				5.74	8.26	
8	5.95				6.66	9.33	
52T	37			3.29	3.95	6.64	
	38			3.18	4.17	6.71	
	40			3.46	3.80	6.64	
106T	53			0.38	1.31	3.88	
	54			0.11	1.34	3.78	
SU	-			-3.11	-1.97	0.51	
High	5 240			26T	0	6.01	6.86
		4	4.79		6.06	8.48	
		8	5.94		6.82	9.41	
		52T	37	3.33	4.25	6.82	
			38	3.36	4.55	7.01	
			40	3.44	4.38	6.95	
		106T	53	0.43	1.81	4.18	
			54	0.38	1.34	3.90	
		SU	-	-2.23	-1.94	0.93	

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)	Antenna Gain (dB i)	E.I.R.P. PSD (dB m)	IC Limit (dB m/1 MHz)
Low	5 180	26T	0	9.40	-3.68	5.72	10
			4	8.74		5.06	
			8	9.50		5.82	
		52T	37	6.91		3.23	
			38	7.09		3.41	
			40	6.85		3.17	
		106T	53	4.05		0.37	
			54	4.04		0.36	
		SU	-	0.64		-3.04	
		Middle	5 220	26T		0	
4	8.26				4.58		
8	9.33				5.65		
52T	37			6.64	2.96		
	38			6.71	3.03		
	40			6.64	2.96		
106T	53			3.88	0.20		
	54			3.78	0.10		
SU	-			0.51	-3.17		
High	5 240			26T	0	9.47	5.79
		4	8.48		4.80		
		8	9.41		5.73		
		52T	37	6.82	3.14		
			38	7.01	3.33		
			40	6.95	3.27		
		106T	53	4.18	0.50		
			54	3.90	0.22		
		SU	-	0.93	-2.75		

U-NII 2A Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)			Limit (dB m/1 MHz)
				Ant.1	Ant.2	Ant.1 + Ant.2	
Low	5 260	26T	0	5.67	6.88	9.33	11
			4	4.98	5.74	8.39	
			8	6.01	6.60	9.33	
		52T	37	3.23	3.97	6.63	
			38	3.56	4.24	6.92	
			40	3.40	4.25	6.86	
		106T	53	0.35	1.48	3.96	
			54	0.34	1.25	3.83	
		SU	-	-3.04	-2.10	0.47	
		Middle	5 300	26T	0	5.94	
4	4.79				6.12	8.52	
8	5.91				6.84	9.41	
52T	37			3.44	4.43	6.97	
	38			3.48	4.65	7.11	
	40			3.38	4.34	6.90	
106T	53			0.76	1.74	4.29	
	54			0.43	1.39	3.95	
SU	-			-2.87	-1.99	0.60	
High	5 320			26T	0	5.41	6.67
		4	4.48		6.08	8.36	
		8	5.78		6.57	9.20	
		52T	37	2.92	4.11	6.57	
			38	3.11	4.21	6.71	
			40	3.18	4.12	6.69	
		106T	53	0.01	1.17	3.64	
			54	0.06	1.06	3.60	
		SU	-	-3.15	-2.21	0.36	

U-NII 2C Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)			Limit (dB m/1 MHz)
				Ant.1	Ant.2	Ant.1 + Ant.2	
Low	5 500	26T	0	4.87	6.36	8.69	11
			4	3.88	5.55	7.81	
			8	5.65	6.53	9.12	
		52T	37	2.65	3.41	6.06	
			38	2.42	3.86	6.21	
			40	2.59	3.67	6.17	
		106T	53	-0.42	0.96	3.33	
			54	-0.44	0.89	3.29	
		SU	-	-3.73	-2.62	-0.13	
		Middle	5 580	26T	0	5.22	
4	4.34				6.17	8.36	
8	5.51				7.05	9.36	
52T	37			2.97	4.53	6.83	
	38			3.03	4.76	6.99	
	40			3.05	4.61	6.91	
106T	53			-0.15	2.02	4.08	
	54			-0.14	1.72	3.90	
SU	-			-3.51	-1.62	0.55	
High	5 700			26T	0	5.34	7.25
		4	4.25		6.46	8.50	
		8	5.83		7.30	9.64	
		52T	37	3.11	4.64	6.95	
			38	2.90	4.68	6.89	
			40	3.05	4.87	7.06	
		106T	53	0.02	1.67	3.93	
			54	-0.10	2.04	4.11	
		SU	-	-3.29	-1.25	0.86	

U-NII 3 Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)			Limit (dB m/1 MHz)
				Ant.1	Ant.2	Ant.1 + Ant.2	
Low	5 745	26T	0	2.96	4.39	6.74	11
			4	2.26	4.25	6.38	
			8	2.70	4.12	6.48	
		52T	37	0.00	1.74	3.97	
			38	0.19	1.82	4.09	
			40	0.11	1.78	4.04	
		106T	53	-2.95	-1.38	0.92	
			54	-3.06	-1.30	0.92	
		SU	-	-6.37	-4.87	-2.55	
		Middle	5 785	26T	0	3.01	
4	2.56				4.73	6.79	
8	3.28				4.89	7.17	
52T	37			0.29	2.24	4.38	
	38			0.37	2.04	4.30	
	40			0.31	1.92	4.20	
106T	53			-2.47	-0.96	1.36	
	54			-2.98	-0.68	1.33	
SU	-			-5.89	-4.32	-2.02	
High	5 825			26T	0	2.89	5.15
		4	2.37		4.50	6.57	
		8	2.79		4.66	6.84	
		52T	37	0.61	2.08	4.42	
			38	0.63	2.12	4.45	
			40	0.05	2.47	4.44	
		106T	53	-2.62	-0.94	1.31	
			54	-2.89	-0.83	1.27	
		SU	-	-6.31	-4.26	-2.15	

- Straddle channel

Channel	Frequency (MHz)	Tones	RU offset	Band	PSD (dB m)			Limit (dB m/1 MHz or dB m/500 kHz)
					Ant.1	Ant.2	Ant.1 + Ant.2	
Straddle	5 720	26T	0	U-NII 2C	5.33	6.96	9.23	11
			4	U-NII 2C	4.65	5.83	8.29	11
			8	U-NII 3	4.28	4.76	7.54	30
		52T	37	U-NII 2C	3.12	4.41	6.82	11
			38	U-NII 2C	3.01	4.48	6.82	11
			40	U-NII 3	1.43	1.94	4.70	30
		106T	53	U-NII 2C	0.07	1.53	3.87	11
			54	U-NII 2C	-0.52	0.92	3.27	11
		U-NII 3		-3.30	-1.79	0.53	30	
		SU	-	U-NII 2C	-3.21	-2.11	0.39	11
				U-NII 3	-6.15	-5.49	-2.80	30

6.4.2. 11ax_HE40

- SISO

U-NII 1 Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)		Limit (dB m/1 MHz)		
				Ant.1	Ant.2			
Low	5 190	26T	0	6.28	7.23	11		
			9	6.40	7.74			
			17	7.07	7.17			
		52T	37	3.99	4.49			
			41	3.49	4.28			
			44	4.15	4.73			
		106T	53	1.23	1.32			
			54	1.12	1.37			
			56	1.83	1.80			
		242T	61	-2.13	-2.23			
			62	-1.85	-2.11			
		SU	-	-4.81	-4.00			
		High	5 230	26T	0		6.84	6.94
					9		6.84	7.31
17	7.06				7.34			
52T	37			4.31	4.62			
	41			4.14	4.08			
	44			4.33	4.20			
106T	53			1.50	1.23			
	54			1.17	1.16			
	56			1.74	1.76			
242T	61			-1.57	-2.17			
	62			-1.52	-2.12			
SU	-			-4.37	-4.46			

U-NII 1 Band_Ant.1

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)	Antenna Gain (dB i)	E.I.R.P. PSD (dB m)	IC Limit (dB m/1 MHz)
Low	5 190	26T	0	6.28			10
			9	6.40			
			17	7.07			
		52T	37	3.99			
			41	3.49			
			44	4.15			
		106T	53	1.23			
			54	1.12			
			56	1.83			
		242T	61	-2.13			
			62	-1.85			
		SU	-	-4.81			
		High	5 230	26T			
9	6.84						
17	7.06						
52T	37			4.31			
	41			4.14			
	44			4.33			
106T	53			1.50			
	54			1.17			
	56			1.74			
242T	61			-1.57			
	62			-1.52			
SU	-			-4.37			

U-NII 1 Band_Ant.2

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)	Antenna Gain (dB i)	E.I.R.P. PSD (dB m)	IC Limit (dB m/1 MHz)
Low	5 190	26T	0	7.23			10
			9	7.74			
			17	7.17			
		52T	37	4.49			
			41	4.28			
			44	4.73			
		106T	53	1.32			
			54	1.37			
			56	1.80			
		242T	61	-2.23			
			62	-2.11			
		SU	-	-4.00			
		High	5 230	26T			
9	7.31						
17	7.34						
52T	37			4.62			
	41			4.08			
	44			4.20			
106T	53			1.23			
	54			1.16			
	56			1.76			
242T	61			-2.17			
	62			-2.12			
SU	-			-4.46			

U-NII 2A Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)		Limit (dB m/1 MHz)
				Ant.1	Ant.2	
Low	5 270	26T	0	6.94	6.72	11
			9	7.19	7.21	
			17	7.03	6.54	
		52T	37	4.54	4.53	
			41	4.40	4.22	
			44	4.26	4.12	
		106T	53	1.82	1.46	
			54	1.34	1.12	
			56	1.62	1.33	
		242T	61	-1.38	-2.30	
			62	-1.09	-2.28	
		SU	-	-4.36	-4.44	
		High	5 310	26T	0	
9	7.44				7.26	
17	7.38				6.72	
52T	37			4.87	4.60	
	41			4.61	4.18	
	44			4.53	4.50	
106T	53			1.62	1.21	
	54			1.57	1.21	
	56			1.87	1.57	
242T	61			-1.83	-2.21	
	62			-1.42	-2.30	
SU	-			-4.22	-4.68	

U-NII 2C Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)		Limit (dB m/1 MHz)
				Ant.1	Ant.2	
Low	5 510	26T	0	7.46	7.21	11
			9	7.29	7.69	
			17	7.27	7.11	
		52T	37	4.37	4.45	
			41	4.55	4.81	
			44	4.75	4.52	
		106T	53	1.36	1.58	
			54	1.47	1.97	
			56	1.88	1.49	
		242T	61	-2.05	-1.52	
			62	-1.42	-1.73	
		SU	-	-4.21	-4.21	
		Middle	5 590	26T	0	
9	7.48				7.29	
17	6.80				6.97	
52T	37			4.25	4.51	
	41			4.60	4.52	
	44			4.21	4.46	
106T	53			0.95	1.68	
	54			0.97	1.81	
	56			1.47	1.31	
242T	61			-2.52	-1.56	
	62			-1.87	-1.93	
SU	-			-4.86	-4.48	
High	5 670			26T	0	7.60
		9	8.19		7.07	
		17	7.71		6.87	
		52T	37	5.00	4.46	
			41	4.98	4.89	
			44	4.86	4.57	
		106T	53	1.85	1.59	
			54	2.09	1.54	
			56	2.20	1.20	
		242T	61	-1.34	-1.68	
			62	-0.97	-1.71	
		SU	-	-3.55	-4.65	

U-NII 3 Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)		Limit (dB m/1 MHz)		
				Ant.1	Ant.2			
Low	5 755	26T	0	3.80	4.69	11		
			9	4.69	4.70			
			17	4.08	4.54			
		52T	37	0.16	2.07			
			41	1.18	1.56			
			44	1.51	1.57			
		106T	53	-1.58	-0.82			
			54	-1.53	-0.97			
			56	-1.48	-0.86			
		242T	61	-5.08	-4.68			
			62	-4.54	-4.41			
		SU	-	-8.44	-7.65			
		High	5 795	26T	0		5.34	4.58
					9		4.74	5.25
17	4.98				4.82			
52T	37			1.93	1.72			
	41			1.57	1.55			
	44			2.42	1.73			
106T	53			-0.69	-0.48			
	54			-0.80	-1.13			
	56			-0.90	-0.84			
242T	61			-3.72	-4.85			
	62			-4.22	-4.15			
SU	-			-6.48	-7.57			

- Straddle channel

Channel	Frequency (MHz)	Tones	RU offset	Band	PSD (dB m)		Limit (dB m/1 MHz or dB m/500 kHz)
					Ant.1	Ant.2	
Straddle	5 710	26T	0	U-NII 2C	6.51	6.42	11
			9	U-NII 2C	6.97	6.87	11
			17	U-NII 3	4.45	4.08	30
		52T	37	U-NII 2C	3.51	4.02	11
			41	U-NII 2C	4.37	4.15	11
			44	U-NII 3	1.43	1.19	30
		106T	53	U-NII 2C	0.89	1.19	11
			54	U-NII 2C	1.04	1.40	11
			56	U-NII 2C	0.80	0.87	11
				U-NII 3	-2.26	-2.15	30
		242T	61	U-NII 2C	-2.45	-2.06	11
			62	U-NII 2C	-2.55	-2.55	11
				U-NII 3	-5.92	-5.27	30
		SU	-	U-NII 2C	-4.69	-4.66	11
				U-NII 3	-9.28	-9.22	30

Remark;

- E.I.R.P. PSD (dB m) = PSD (dB m) + Antenna Gain (dB i)

- MIMO

U-NII 1 Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)			Limit (dB m/1 MHz)		
				Ant.1	Ant.2	Ant.1 + Ant.2			
Low	5 190	26T	0	5.72	7.12	9.49	11		
			9	5.94	7.27	9.67			
			17	5.87	6.81	9.38			
		52T	37	3.06	5.56	7.50			
			41	3.45	5.19	7.42			
			44	3.62	4.66	7.18			
		106T	53	-0.75	3.29	4.73			
			54	-0.20	2.00	4.05			
			56	-0.73	1.95	3.82			
		242T	61	-4.39	-2.90	-0.57			
			62	-4.18	-2.98	-0.53			
		SU	-	-5.48	-3.95	-1.64			
		High	5 230	26T	0	6.04		7.05	9.58
					9	6.23		7.18	9.74
17	6.19				7.06	9.66			
52T	37			3.10	4.51	6.87			
	41			3.58	5.00	7.36			
	44			3.84	5.46	7.74			
106T	53			-0.67	0.76	3.11			
	54			-0.92	1.57	3.51			
	56			-0.98	1.04	3.16			
242T	61			-4.72	-3.09	-0.82			
	62			-4.75	-3.42	-1.02			
SU	-			-5.36	-3.99	-1.61			

U-NII 1 Band_Ant.1+Ant.2

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)	Antenna Gain (dB i)	E.I.R.P. PSD (dB m)	IC Limit (dB m/1 MHz)
Low	5 190	26T	0	9.49			10
			9	9.67			
			17	9.38			
		52T	37	7.50			
			41	7.42			
			44	7.18			
		106T	53	4.73			
			54	4.05			
			56	3.82			
		242T	61	-0.57			
			62	-0.53			
		SU	-	-1.64			
		High	5 230	26T			
9	9.74						
17	9.66						
52T	37			6.87			
	41			7.36			
	44			7.74			
106T	53			3.11			
	54			3.51			
	56			3.16			
242T	61			-0.82			
	62			-1.02			
SU	-			-1.61			

U-NII 2A Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)			Limit (dB m/1 MHz)		
				Ant.1	Ant.2	Ant.1 + Ant.2			
Low	5 270	26T	0	5.91	7.07	9.54	11		
			9	5.89	7.14	9.57			
			17	5.90	6.88	9.43			
		52T	37	3.33	4.96	7.23			
			41	3.57	4.53	7.09			
			44	3.99	4.73	7.39			
		106T	53	-0.48	1.68	3.74			
			54	0.27	0.70	3.50			
			56	-0.65	1.42	3.52			
		242T	61	-4.49	-2.84	-0.58			
			62	-5.08	-3.52	-1.22			
		SU	-	-5.23	-4.20	-1.67			
		High	5 310	26T	0	6.09		6.98	9.57
					9	5.96		7.29	9.69
17	5.93				6.75	9.37			
52T	37			3.59	4.38	7.01			
	41			3.51	4.80	7.21			
	44			3.56	4.97	7.33			
106T	53			-0.63	1.31	3.46			
	54			-0.72	1.97	3.84			
	56			-0.48	1.35	3.54			
242T	61			-4.50	-2.92	-0.63			
	62			-4.56	-4.09	-1.31			
SU	-			-5.38	-4.14	-1.71			

U-NII 2C Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)			Limit (dB m/1 MHz)
				Ant.1	Ant.2	Ant.1 + Ant.2	
Low	5 510	26T	0	5.83	7.05	9.49	11
			9	6.58	7.52	10.09	
			17	6.48	7.09	9.81	
		52T	37	3.23	4.73	7.05	
			41	4.30	5.34	7.86	
			44	4.08	5.09	7.62	
		106T	53	-0.93	2.21	3.93	
			54	-1.05	0.77	2.96	
			56	-1.18	1.88	3.62	
		242T	61	-5.40	-3.42	-1.29	
			62	-5.34	-2.14	-0.44	
		SU	-	-5.41	-3.85	-1.55	
		Middle	5 590	26T	0	5.89	
9	5.63				7.58	9.72	
17	6.35				7.31	9.87	
52T	37			3.10	5.07	7.21	
	41			3.31	5.04	7.27	
	44			3.37	4.72	7.11	
106T	53			-0.95	1.44	3.42	
	54			-0.93	1.24	3.30	
	56			-0.70	1.09	3.30	
242T	61			-4.34	-2.91	-0.56	
	62			-4.51	-2.91	-0.63	
SU	-			-5.44	-3.94	-1.62	
High	5 670			26T	0	6.51	7.14
		9	6.91		7.38	10.16	
		17	6.79		6.70	9.76	
		52T	37	3.92	4.83	7.41	
			41	4.61	4.53	7.58	
			44	4.54	5.02	7.80	
		106T	53	0.09	1.60	3.92	
			54	-0.15	1.63	3.84	
			56	0.28	0.75	3.53	
		242T	61	-3.29	-3.68	-0.47	
			62	-3.56	-3.20	-0.37	
		SU	-	-4.55	-4.07	-1.29	

U-NII 3 Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)			Limit (dB m/1 MHz)		
				Ant.1	Ant.2	Ant.1 + Ant.2			
Low	5 755	26T	0	3.07	5.26	7.31	11		
			9	3.53	5.98	7.94			
			17	3.54	5.63	7.72			
		52T	37	0.45	2.74	4.75			
			41	0.08	2.01	4.16			
			44	0.47	2.75	4.77			
		106T	53	-4.24	-0.11	1.31			
			54	-2.98	-0.55	1.41			
			56	-4.47	-1.48	0.29			
		242T	61	-6.20	-4.22	-2.09			
			62	-5.20	-3.30	-1.14			
		SU	-	-7.77	-6.08	-3.83			
		High	5 795	26T	0	4.77		5.36	8.09
					9	4.17		5.36	7.82
17	4.26				4.66	7.47			
52T	37			1.20	2.05	4.66			
	41			1.36	2.47	4.96			
	44			1.59	2.36	5.00			
106T	53			-2.22	-1.50	1.17			
	54			-2.98	-1.24	0.99			
	56			-1.92	-1.03	1.56			
242T	61			-6.33	-5.47	-2.87			
	62			-5.85	-4.96	-2.37			
SU	-			-7.41	-6.81	-4.09			

- Straddle channel

Channel	Frequency (MHz)	Tones	RU offset	Band	PSD (dB m)			Limit (dB m/1 MHz or dB m/500 kHz)
					Ant.1	Ant.2	Ant.1 + Ant.2	
Straddle	5 710	26T	0	U-NII 2C	5.99	6.82	9.44	11
			9	U-NII 2C	6.67	7.37	10.04	11
			17	U-NII 3	3.92	4.32	7.13	30
		52T	37	U-NII 2C	3.86	4.27	7.08	11
			41	U-NII 2C	3.13	3.84	6.51	11
			44	U-NII 3	1.20	1.35	4.29	30
		106T	53	U-NII 2C	-1.31	-0.33	2.22	11
			54	U-NII 2C	-0.13	0.00	2.95	11
			56	U-NII 2C	0.63	0.92	3.79	11
				U-NII 3	-2.16	-1.72	1.08	30
		242T	61	U-NII 2C	-3.90	-3.04	-0.44	11
			62	U-NII 2C	-1.87	-1.62	1.27	11
		U-NII 3		-5.46	-4.99	-2.21	30	
		SU	-	U-NII 2C	-4.19	-4.17	-1.17	11
U-NII 3	-8.75			-8.51	-5.62	30		

Remark;

1. E.I.R.P. PSD (dB m) = PSD (dB m) + Antenna Gain (dB i)
2. According to KDB 662911, PSD of each port and antenna gain was combined by using below calculation.

- PSD: $10 \log \{10^{(\text{Ant.1 PSD} / 10)} + 10^{(\text{Ant.2 PSD} / 10)}\}$

- Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, \dots, G_N dB i

(i) If transmit signals are correlated, then

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}]$ dB i [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

6.4.3. 11ax_HE80

- SISO

U-NII 1 Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)		Limit (dB m/1 MHz)
				Ant.1	Ant.2	
Middle	5 210	26T	0	6.54	6.03	11
			18	5.17	5.43	
			36	6.61	6.65	
		52T	37	3.90	3.52	
			45	3.64	3.72	
			52	4.02	4.00	
		106T	53	0.61	1.18	
			57	0.84	1.08	
			60	0.93	1.32	
		242T	61	-2.52	-1.51	
			62	-2.73	-1.87	
			64	-2.83	-2.43	
		484T	65	-5.24	-5.32	
			66	-5.18	-5.42	
		SU	-	-8.07	-7.89	

U-NII 1 Band_Ant.1

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)	Antenna Gain (dB i)	E.I.R.P. PSD (dB m)	IC Limit (dB m/1 MHz)
Middle	5 210	26T	0	6.54	-6.20	0.34	10
			18	5.17		-1.03	
			36	6.61		0.41	
		52T	37	3.90		-2.30	
			45	3.64		-2.56	
			52	4.02		-2.18	
		106T	53	0.61		-5.59	
			57	0.84		-5.36	
			60	0.93		-5.27	
		242T	61	-2.52		-8.72	
			62	-2.73		-8.93	
			64	-2.83		-9.03	
		484T	65	-5.24		-11.44	
			66	-5.18		-11.38	
		SU	-	-8.07		-14.27	

U-NII 1 Band_Ant.2

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)	Antenna Gain (dB i)	E.I.R.P. PSD (dB m)	IC Limit (dB m/1 MHz)
Middle	5 210	26T	0	6.03	-7.20	-1.17	10
			18	5.43		-1.77	
			36	6.65		-0.55	
		52T	37	3.52		-3.68	
			45	0.37		-6.83	
			52	4.00		-3.20	
		106T	53	1.18		-6.02	
			57	1.08		-6.12	
			60	1.32		-5.88	
		242T	61	-1.51		-8.71	
			62	-1.87		-9.07	
			64	-2.43		-9.63	
		484T	65	-5.32		-12.52	
			66	-5.42		-12.62	
		SU	-	-7.89		-15.09	

U-NII 2A Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)		Limit (dB m/1 MHz)
				Ant.1	Ant.2	
Middle	5 290	26T	0	6.29	6.78	11
			18	5.42	5.76	
			36	6.32	6.50	
		52T	37	3.59	4.19	
			45	3.75	4.19	
			52	3.74	4.37	
		106T	53	1.05	1.49	
			57	1.08	1.29	
			60	0.76	1.03	
		242T	61	-2.93	-1.64	
			62	-2.70	-1.75	
			64	-2.43	-2.15	
		484T	65	-4.88	-4.85	
			66	-5.74	-5.07	
		SU	-	-8.15	-7.33	

U-NII 2C Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)		Limit (dB m/1 MHz)
				Ant.1	Ant.2	
Low	5 530	26T	0	6.32	6.58	11
			18	5.21	5.40	
			36	6.50	6.23	
		52T	37	3.92	3.93	
			45	3.64	3.89	
			52	4.04	3.53	
		106T	53	1.07	1.48	
			57	0.94	0.74	
			60	1.17	0.80	
		242T	61	-2.13	-1.92	
			62	-2.64	-2.12	
			64	-2.79	-2.52	
		484T	65	-4.85	-4.97	
			66	-4.93	-5.54	
		SU	-	-7.26	-7.61	
High	5 610	26T	0	6.40	6.46	
			18	5.50	5.46	
			36	6.42	6.98	
		52T	37	4.17	4.19	
			45	4.25	3.93	
			52	3.92	3.90	
		106T	53	0.99	1.28	
			57	1.18	0.96	
			60	1.31	1.16	
		242T	61	-1.85	-1.40	
			62	-2.36	-2.14	
			64	-2.33	-2.26	
		484T	65	-5.23	-4.89	
			66	-5.37	-5.62	
		SU	-	-7.75	-7.26	

U-NII 3 Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)		Limit (dB m/1 MHz)
				Ant.1	Ant.2	
Low	5 690	26T	0	4.00	4.07	11
			18	5.02	4.13	
			36	4.76	4.59	
		52T	37	1.58	1.48	
			45	2.19	2.00	
			52	2.35	1.59	
		106T	53	-1.06	-1.23	
			57	-1.23	-0.83	
			60	-1.60	-1.08	
		242T	61	-5.02	-4.13	
			62	-4.55	-4.50	
			64	-4.82	-4.42	
		484T	65	-7.86	-7.50	
			66	-7.62	-7.60	
		SU	-	-10.39	-10.16	

- Straddle channel

Channel	Frequency (MHz)	Tones	RU offset	Band	PSD (dB m)		Limit (dB m/1 MHz or dB m/500 kHz)
					Ant.1	Ant.2	
Straddle	5 690	26T	0	U-NII 2C	6.83	6.45	11
			18	U-NII 2C	5.53	5.73	11
			36	U-NII 3	4.21	4.51	30
		52T	37	U-NII 2C	4.44	4.07	11
			45	U-NII 2C	4.59	4.45	11
			52	U-NII 3	1.60	1.24	30
		106T	53	U-NII 2C	1.12	1.26	11
			57	U-NII 2C	0.95	1.42	11
			60	U-NII 2C	1.33	2.60	11
		242T	61	U-NII 3	-1.48	0.21	30
				62	U-NII 2C	-1.92	-2.19
			64	U-NII 2C	-2.45	-2.21	11
				U-NII 3	-1.86	-1.16	11
		484T	65	U-NII 3	-5.00	-4.08	30
				U-NII 2C	-5.47	-4.78	11
			66	U-NII 2C	-4.64	-3.92	11
		U-NII 3		-7.92	-7.28	30	
		SU	-	U-NII 2C	-8.06	-7.40	11
U-NII 3	-13.40			-12.20	30		

Remark;

- E.I.R.P. PSD (dB m) = PSD (dB m) + Antenna Gain (dB i)

- MIMO

U-NII 1 Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)			Limit (dB m/1 MHz)
				Ant.1	Ant.2	Ant.1 + Ant.2	
Middle	5 210	26T	0	6.08	7.17	9.67	11
			18	5.35	6.17	8.79	
			36	6.30	6.95	9.65	
		52T	37	4.06	4.45	7.27	
			45	3.84	4.86	7.39	
			52	4.19	3.98	7.10	
		106T	53	1.38	1.29	4.35	
			57	1.12	-0.52	3.39	
			60	1.42	-0.27	3.67	
		242T	61	-1.75	-3.98	0.29	
			62	-2.22	-3.58	0.16	
			64	-2.28	-3.69	0.08	
		484T	65	-5.26	-4.18	-1.68	
			66	-4.92	-4.55	-1.72	
		SU	-	-7.73	-6.99	-4.33	

U-NII 1 Band_Ant.1+Ant.2

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)	Antenna Gain (dB i)	E.I.R.P. PSD (dB m)	IC Limit (dB m/1 MHz)
Middle	5 210	26T	0	9.67	-3.68	5.99	10
			18	8.79		5.11	
			36	9.65		5.97	
		52T	37	7.27		3.59	
			45	7.39		3.71	
			52	7.10		3.42	
		106T	53	4.35		0.67	
			57	3.39		-0.29	
			60	3.67		-0.01	
		242T	61	0.29		-3.39	
			62	0.16		-3.52	
			64	0.08		-3.60	
		484T	65	-1.68		-5.36	
			66	-1.72		-5.40	
		SU	-	-4.33		-8.01	

U-NII 2A Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)			Limit (dB m/1 MHz)
				Ant.1	Ant.2	Ant.1 + Ant.2	
Middle	5 290	26T	0	6.86	7.88	10.41	11
			18	5.53	6.77	9.20	
			36	6.60	7.33	9.99	
		52T	37	4.20	5.31	7.80	
			45	3.83	5.22	7.59	
			52	4.25	4.60	7.44	
		106T	53	1.43	2.66	5.10	
			57	0.82	2.16	4.55	
			60	1.32	1.92	4.64	
		242T	61	-1.82	-0.68	1.80	
			62	-2.27	-1.44	1.18	
			64	-2.42	-1.84	0.89	
		484T	65	-5.15	-4.10	-1.58	
			66	-5.27	-4.50	-1.86	
		SU	-	-7.67	-6.71	-4.15	

U-NII 2C Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)			Limit (dB m/1 MHz)
				Ant.1	Ant.2	Ant.1 + Ant.2	
Low	5 530	26T	0	6.60	7.76	10.23	11
			18	5.06	6.79	9.02	
			36	6.71	6.93	9.83	
		52T	37	3.86	5.20	7.59	
			45	3.66	4.96	7.37	
			52	4.30	4.26	7.29	
		106T	53	0.89	2.45	4.75	
			57	0.75	1.65	4.23	
			60	1.08	1.73	4.43	
		242T	61	-2.21	-0.98	1.46	
			62	-2.35	-1.38	1.17	
			64	-1.78	-1.56	1.34	
		484T	65	-5.51	-4.53	-1.98	
			66	-5.53	-4.72	-2.10	
		SU	-	-7.85	-7.05	-4.42	
		High	5 610	26T	0	6.74	
18	5.54				6.47	9.04	
36	6.80				7.28	10.06	
52T	37			4.12	5.46	7.85	
	45			3.65	4.74	7.24	
	52			4.34	4.57	7.47	
106T	53			1.32	2.49	4.95	
	57			0.92	1.89	4.44	
	60			1.15	1.85	4.52	
242T	61			-1.86	-0.79	1.72	
	62			-2.17	-1.33	1.28	
	64			-1.95	-1.51	1.29	
484T	65			-5.19	-4.37	-1.75	
	66			-5.34	-4.64	-1.97	
SU	-			-7.61	-7.05	-4.31	

U-NII 3 Band

Channel	Frequency (MHz)	Tones	RU offset	PSD (dB m)			Limit (dB m/1 MHz)
				Ant.1	Ant.2	Ant.1 + Ant.2	
Middle	5 690	26T	0	5.17	5.44	8.32	11
			18	3.95	4.79	7.40	
			36	4.65	5.09	7.89	
		52T	37	2.66	2.69	5.69	
			45	1.82	2.45	5.16	
			52	2.02	2.68	5.37	
		106T	53	-1.25	-0.62	2.09	
			57	-1.23	-0.71	2.05	
			60	-1.33	-0.52	2.10	
		242T	61	-4.08	-3.87	-0.96	
			62	-4.29	-4.20	-1.23	
			64	-4.36	-4.06	-1.20	
		484T	65	-7.43	-6.89	-4.14	
			66	-7.38	-7.19	-4.27	
		SU	-	-9.94	-9.59	-6.75	

- Straddle channel

Channel	Frequency (MHz)	Tones	RU offset	Band	PSD (dB m)			Limit (dB m/1 MHz or dB m/500 kHz)
					Ant.1	Ant.2	Ant.1 + Ant.2	
Straddle	5 690	26T	0	U-NII 2C	6.83	7.85	10.38	11
			18	U-NII 2C	5.53	6.38	8.99	11
			36	U-NII 3	4.21	4.46	7.35	30
		52T	37	U-NII 2C	4.44	5.02	7.75	11
			45	U-NII 2C	3.59	4.79	7.24	11
			52	U-NII 3	1.60	1.92	4.77	30
		106T	53	U-NII 2C	1.12	2.54	4.90	11
			57	U-NII 2C	0.95	1.92	4.47	11
			60	U-NII 2C	1.32	3.28	5.42	11
		U-NII 3		-1.33	0.43	2.65	30	
		242T	61	U-NII 2C	-1.92	-0.91	1.62	11
			62	U-NII 2C	-2.45	-1.40	1.12	11
			64	U-NII 2C	-1.84	-0.08	2.14	11
		U-NII 3		-4.84	-2.92	-0.76	30	
		484T	65	U-NII 2C	-5.47	-4.10	-1.72	11
			66	U-NII 2C	-4.60	-2.79	-0.59	11
		U-NII 3		-7.91	-6.16	-3.94	30	
		SU	-	U-NII 2C	-9.14	-6.76	-4.78	11
				U-NII 3	-14.52	-12.04	-10.10	30

Remark;

1. E.I.R.P. PSD (dB m) = PSD (dB m) + Antenna Gain (dB i)
2. According to KDB 662911, PSD of each port and antenna gain was combined by using below calculation.

- PSD: $10 \log \{10^{(\text{Ant.1 PSD} / 10)} + 10^{(\text{Ant.2 PSD} / 10)}\}$

- Unequal antenna gains, with equal transmit powers. For antenna gains given by G_1, G_2, \dots, G_N dB i

(i) If transmit signals are correlated, then

Directional gain = $10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{\text{ANT}}]$ dB i [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

- Test plots

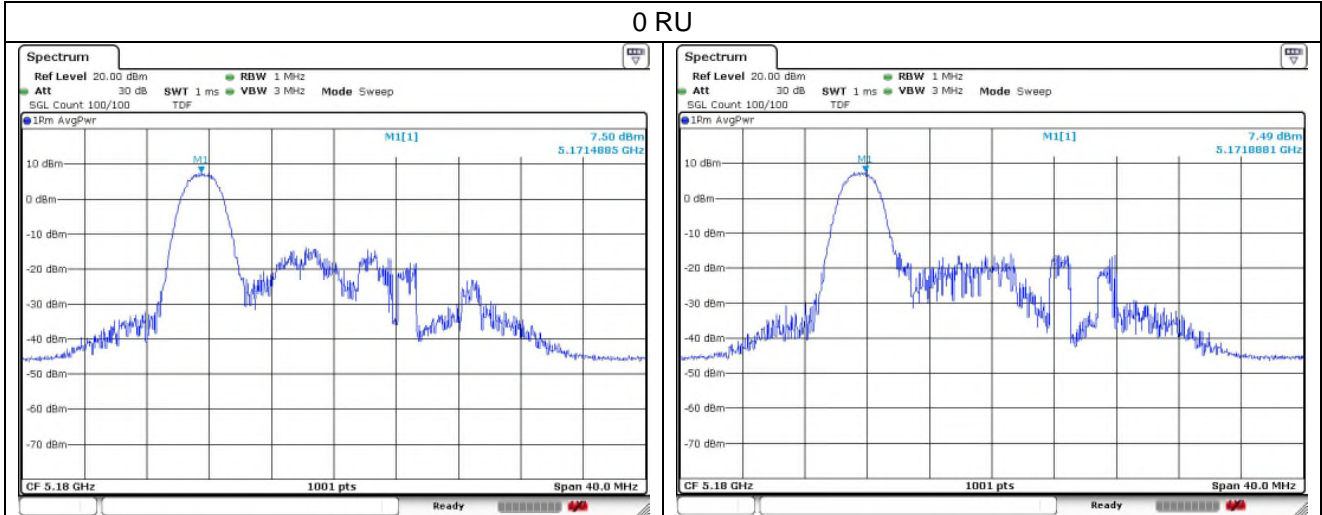
- SISO

802.11ax_HE20 Band 1_Low channel_26T

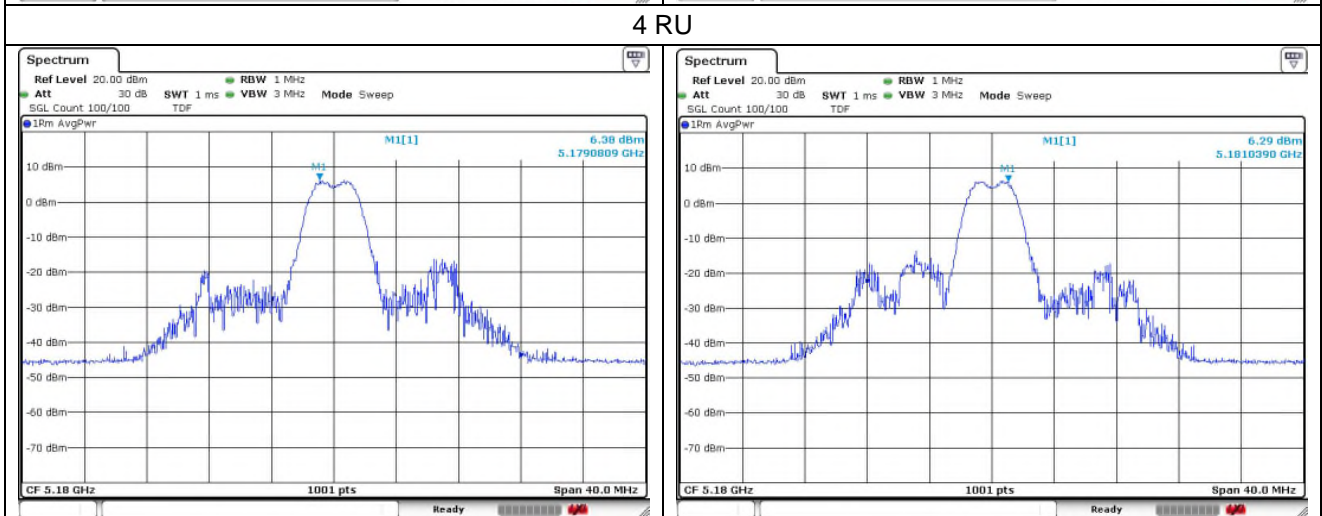
Ant.1

Ant.2

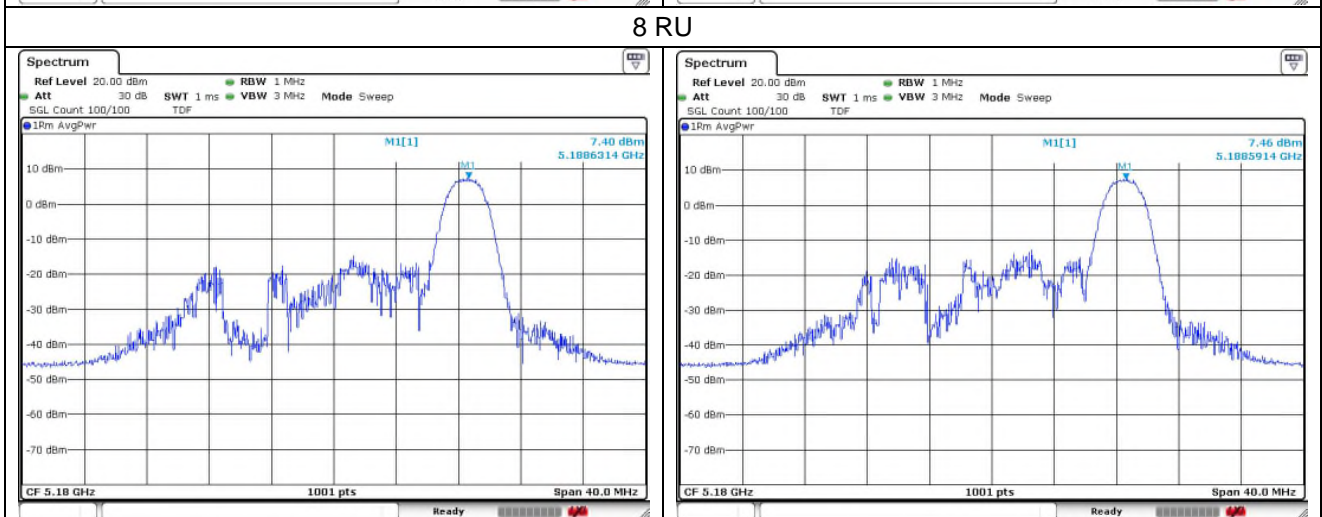
0 RU



4 RU



8 RU

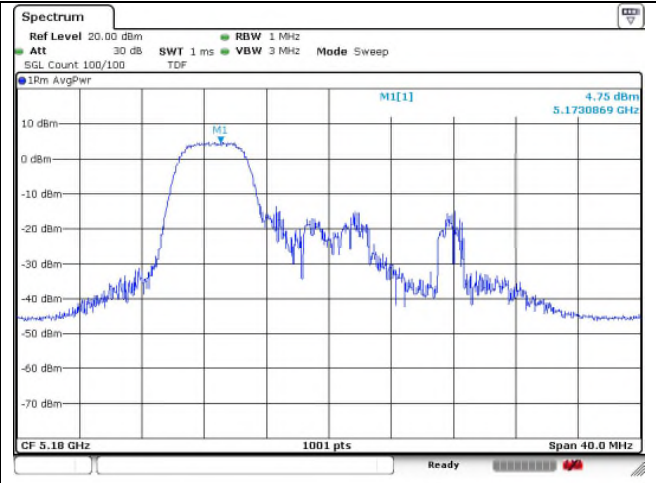
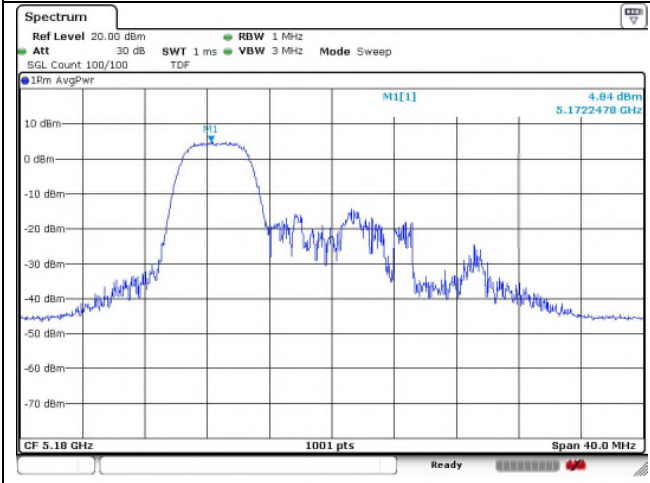


802.11ax_HE20 Band 1_Low channel_52T

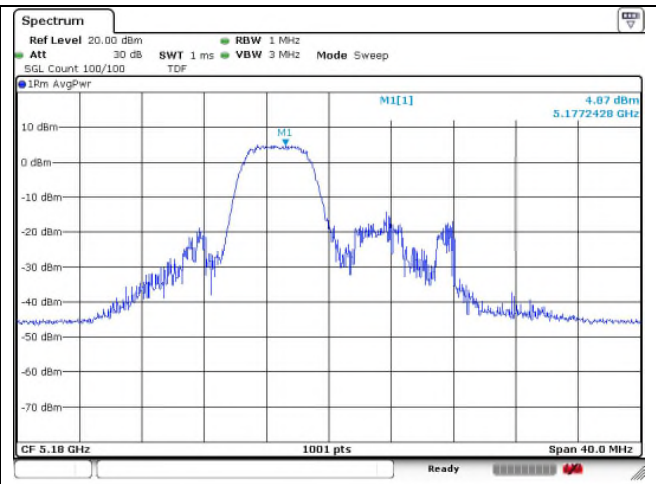
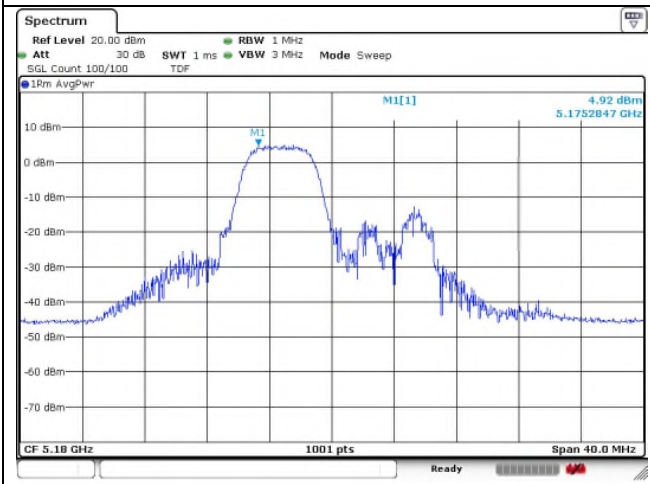
Ant.1

Ant.2

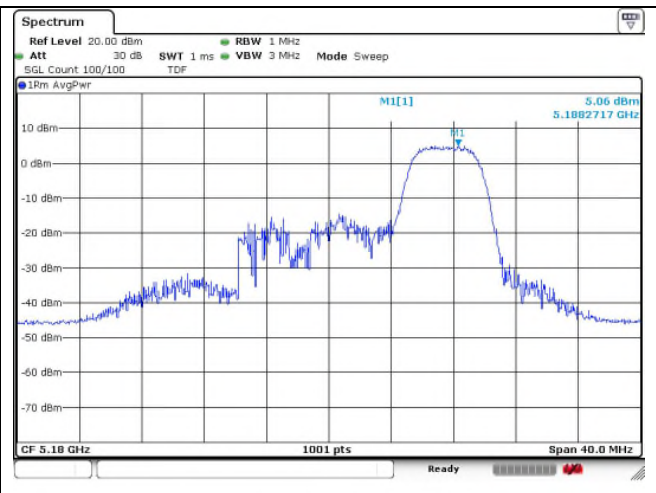
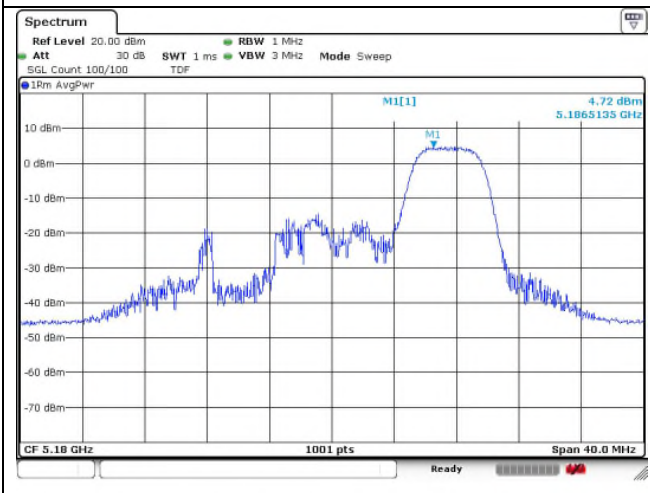
37 RU



38 RU



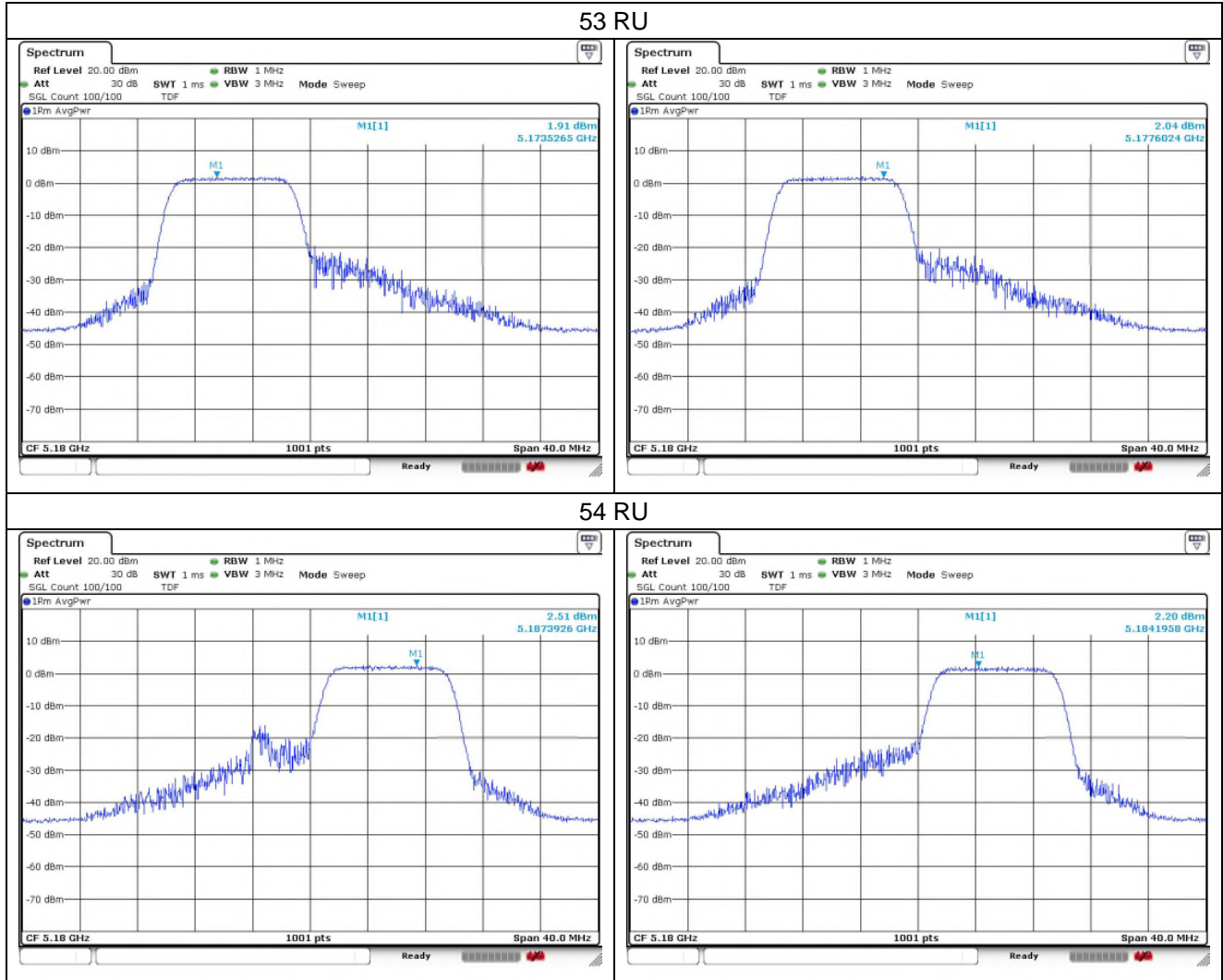
40 RU



802.11ax_HE20 Band 1_Low channel_106T

Ant.1

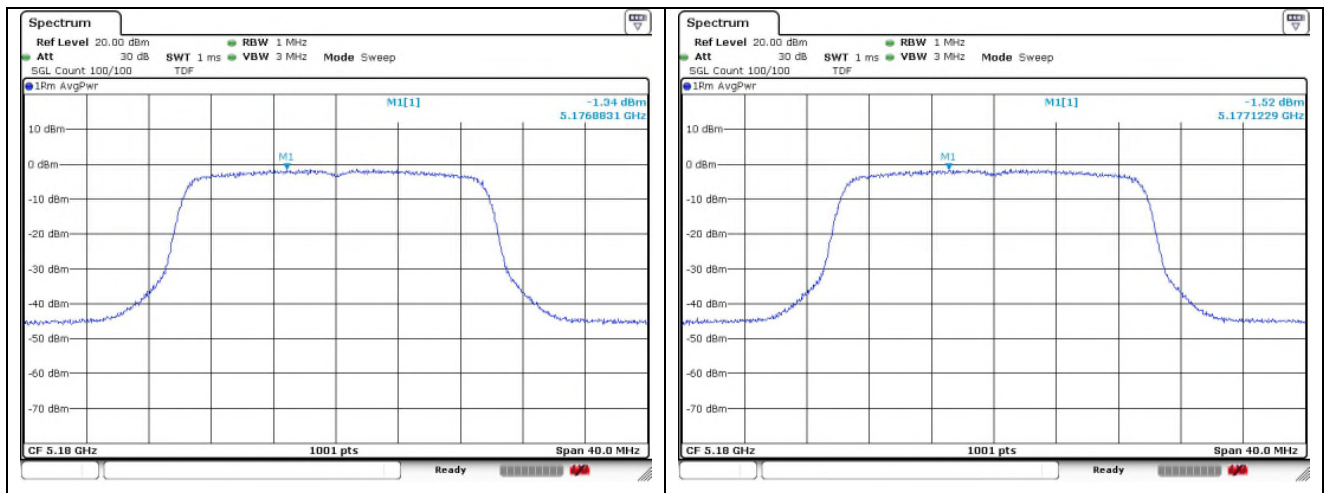
Ant.2



802.11ax_HE20 Band 1_Low channel_SU

Ant.1

Ant.2

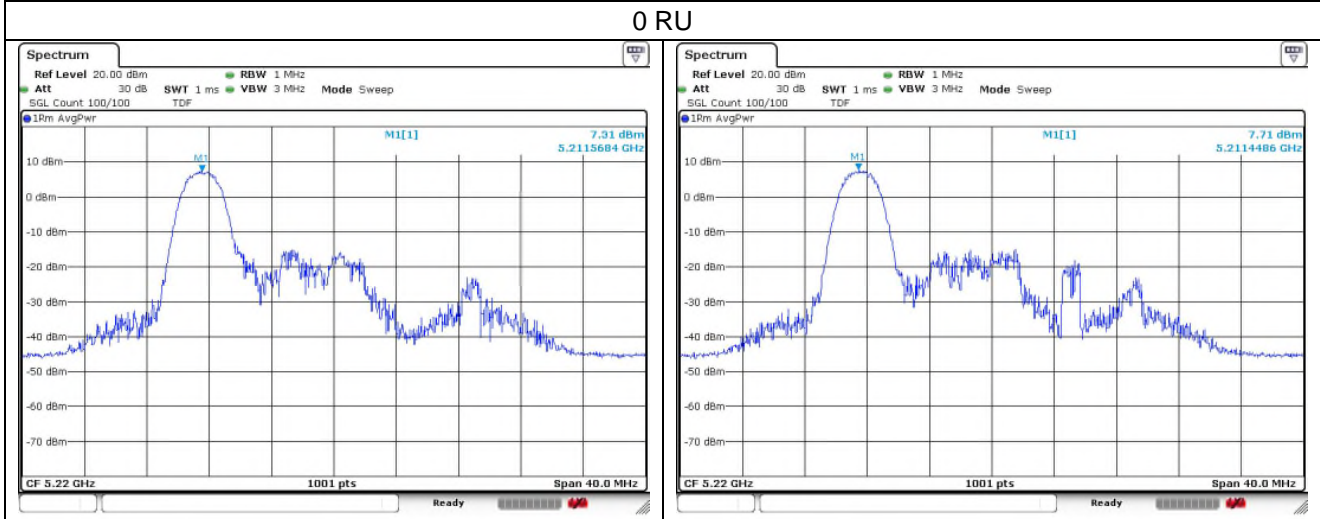


802.11ax_HE20 Band 1_Middle channel_26T

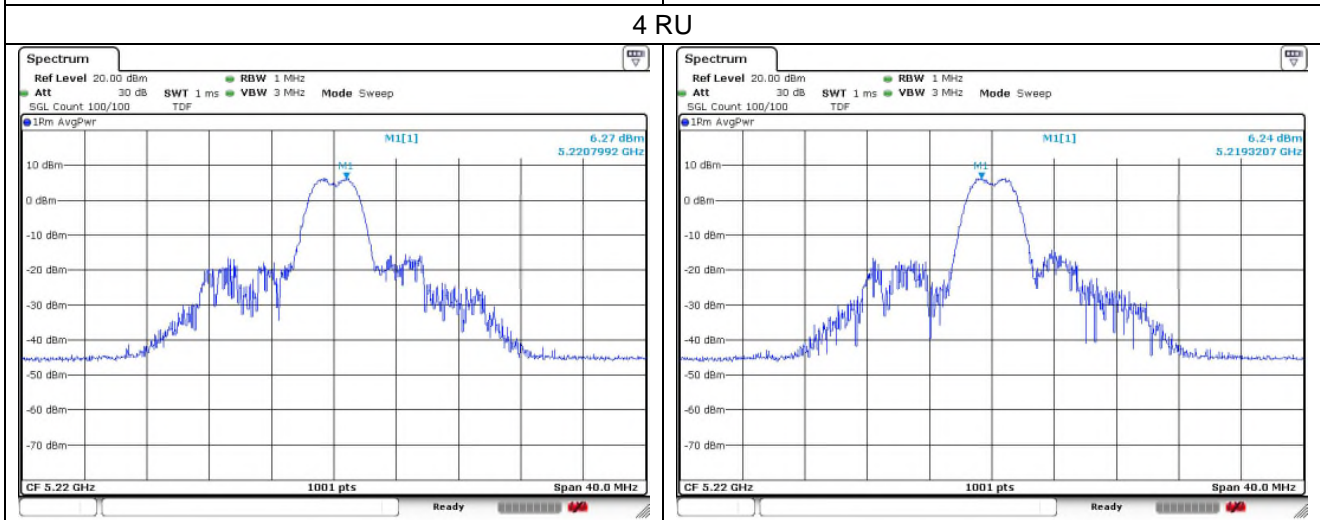
Ant.1

Ant.2

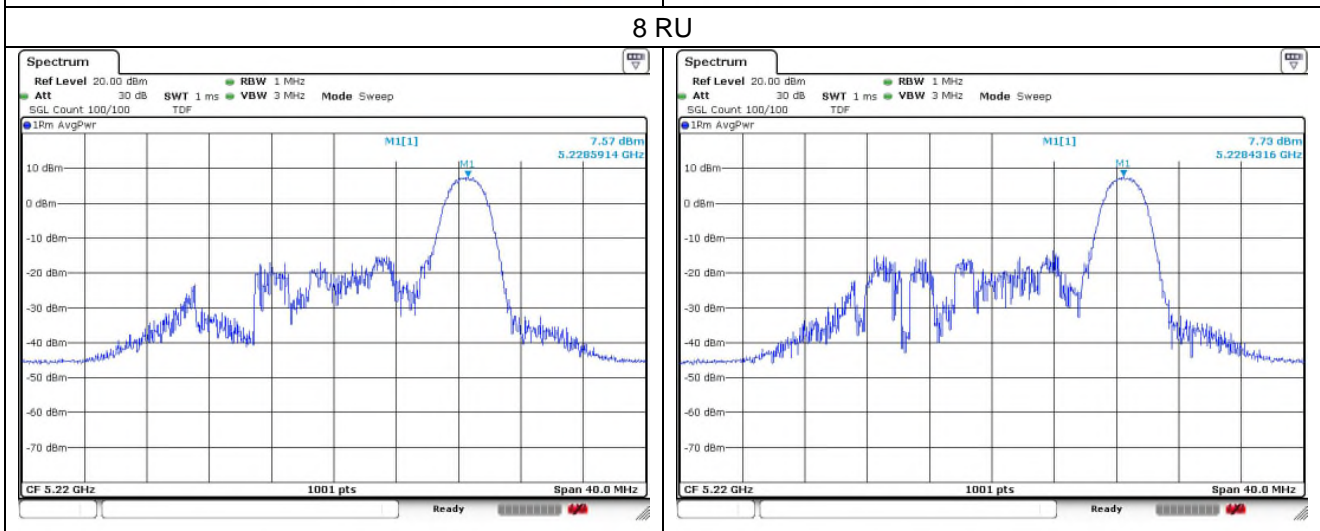
0 RU



4 RU



8 RU

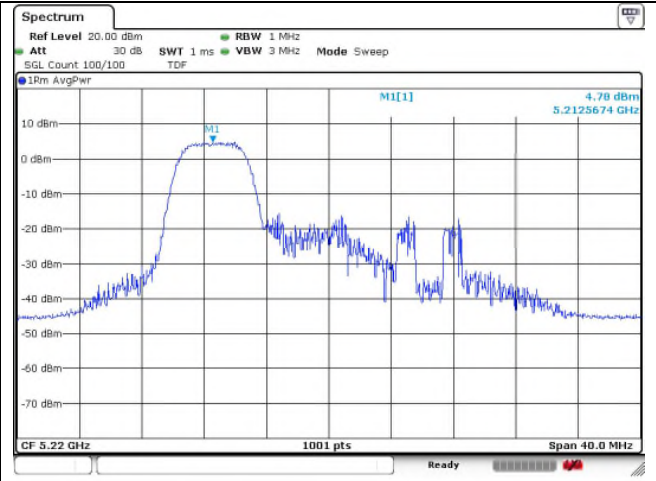
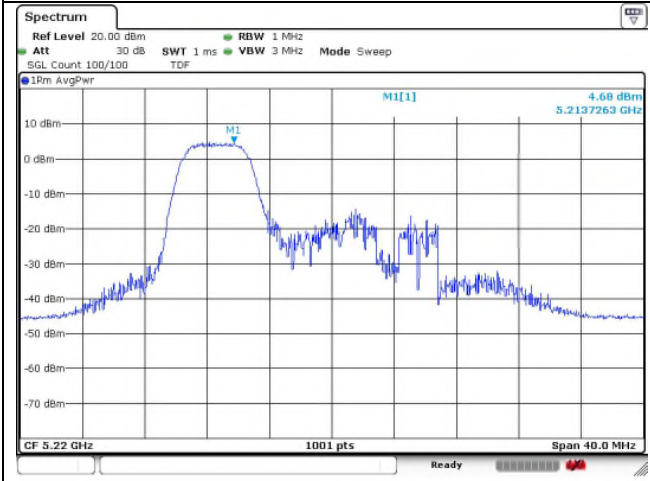


802.11ax_HE20 Band 1_Middle channel_52T

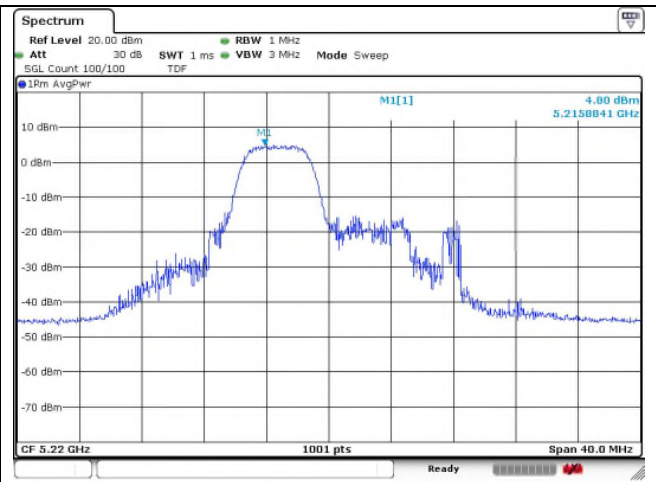
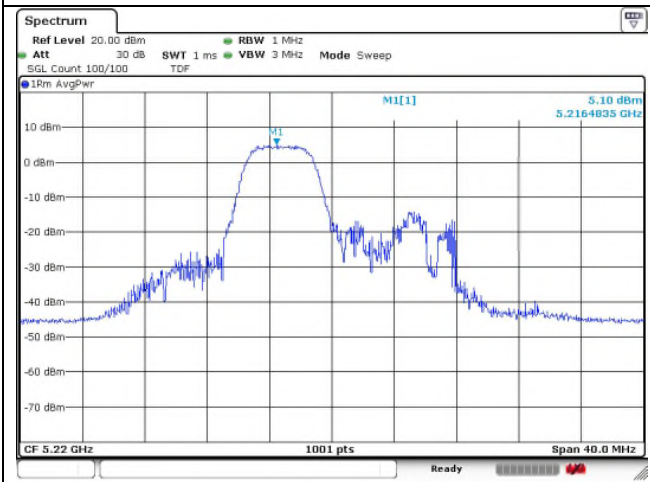
Ant.1

Ant.2

37 RU



38 RU



40 RU

