

802.11ax_HE80 Band 3_484T_66 RU

Ant.1

Ant.2

Straddle channel



802.11ax_HE80 Band 3_SU

Ant.1

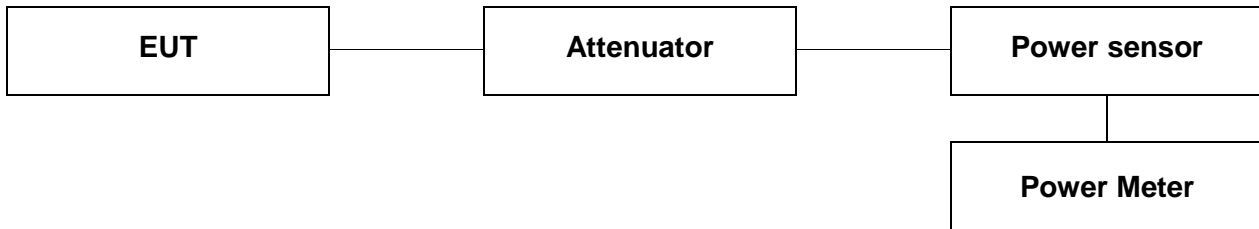
Ant.2

Straddle channel



5. Maximum Conducted Output Power

5.1. Test Setup



5.2. Limit

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 dB i. In addition, the maximum power spectral density shall not exceed 11 dB m in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dB i 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 dB i.

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 dB m + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dB m in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dB i 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 dB i.

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 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 maximum 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 U-NII 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-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.

5.3. 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			

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

Ant.1

Band	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	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

Ant.2

Band	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	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

- 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

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	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	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;

- 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
 - 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.]

5.4.2. 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			

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
		SU	-	U-NII 3	2.31	2.46
				U-NII 2C	9.09	9.20
						U-NII 3

Ant.1

Band	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	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

Ant.2

Band	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	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

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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)		
					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
				62	U-NII 2C	10.27	10.52
			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
		SU	-	U-NII 3	-0.89	-0.65	2.24

Band	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			
	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. 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.]

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- 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			

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		

Ant.1

Band	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	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

Ant.2

Band	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	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

- 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)		
					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
		64	U-NII 3	2.96	4.96	7.08	
			484T	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	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	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. According to KDB 662911, average power of each port and antenna gain was combined by using below calculation.
 - Average power: $10 \log \{10^{(ANT\ 1\ power / 10)} + 10^{(ANT\ 2\ power / 10)}\}$
 - 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 = $10 \log \left[\frac{10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20}}{N_{ANT}} \right]^2$ 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.]

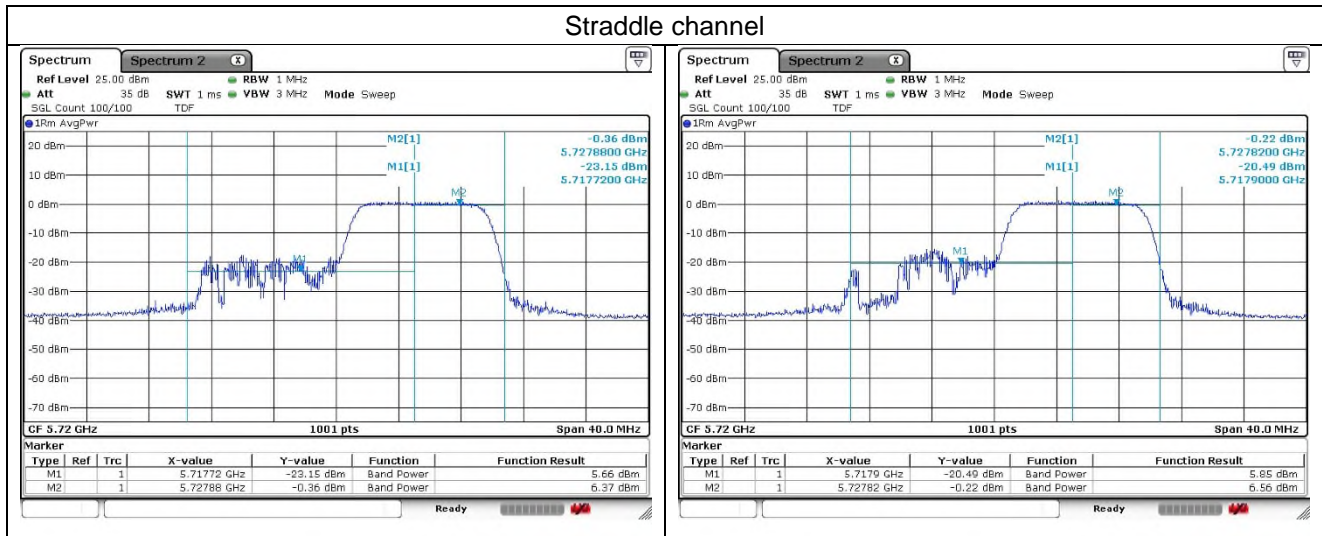
- Test plots

- SISO

802.11ax_HE20 Band 2C/Band 3_106T_54 RU

Ant.1

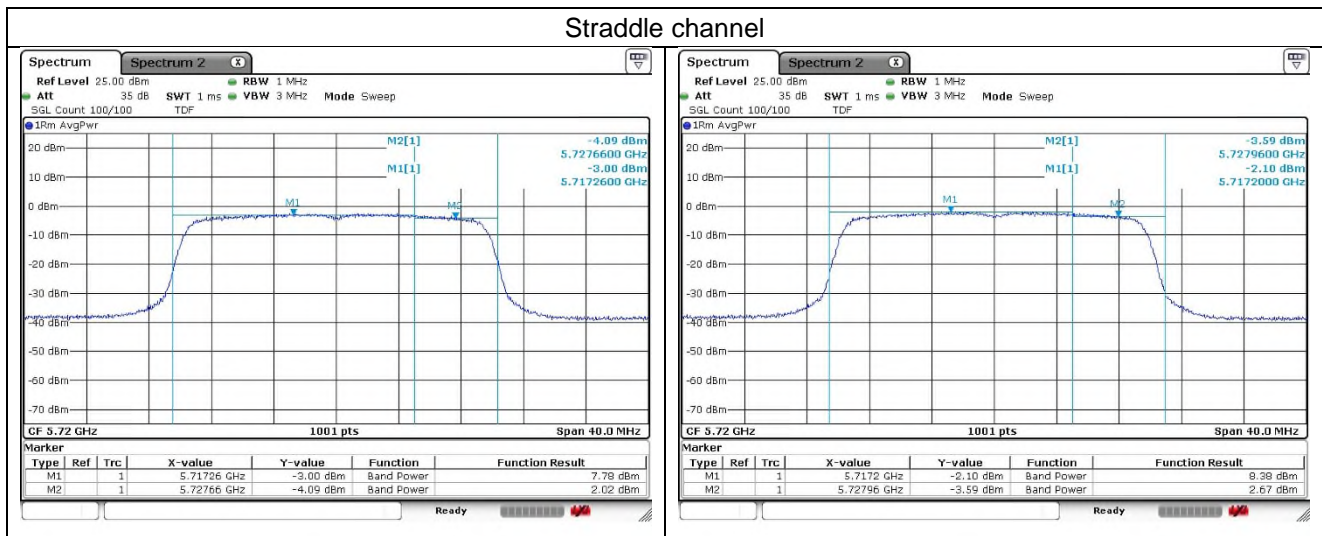
Ant.2



802.11ax_HE20 Band 2C/Band 3_SU

Ant.1

Ant.2



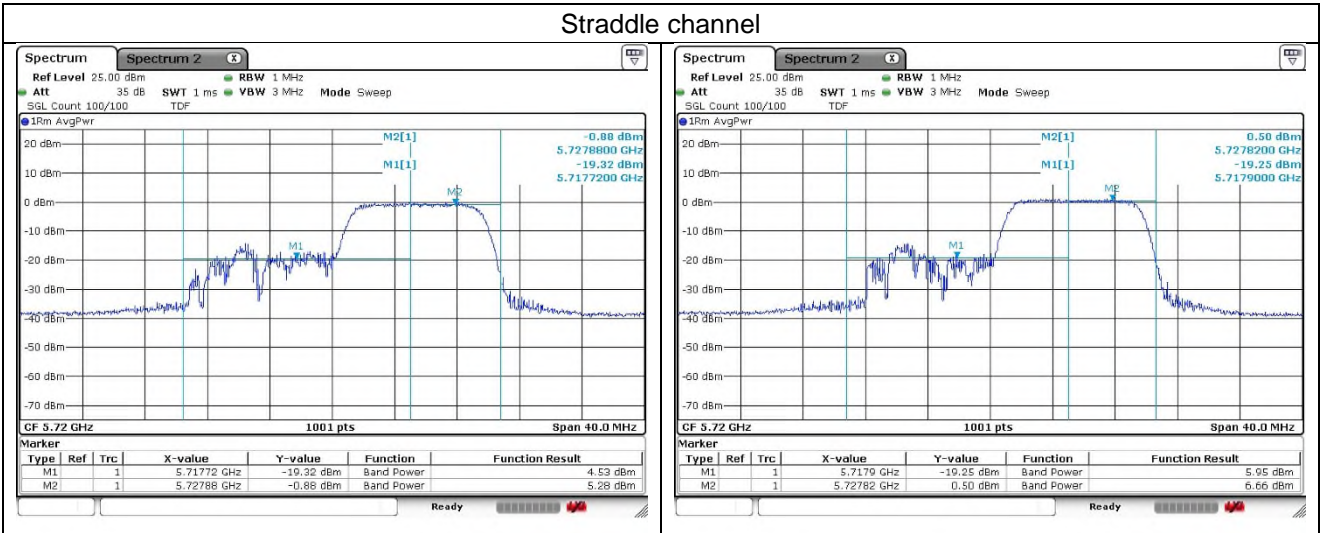
- MIMO

802.11ax_HE20 Band 2C/Band 3_106T_54 RU

Ant.1

Ant.2

Straddle channel

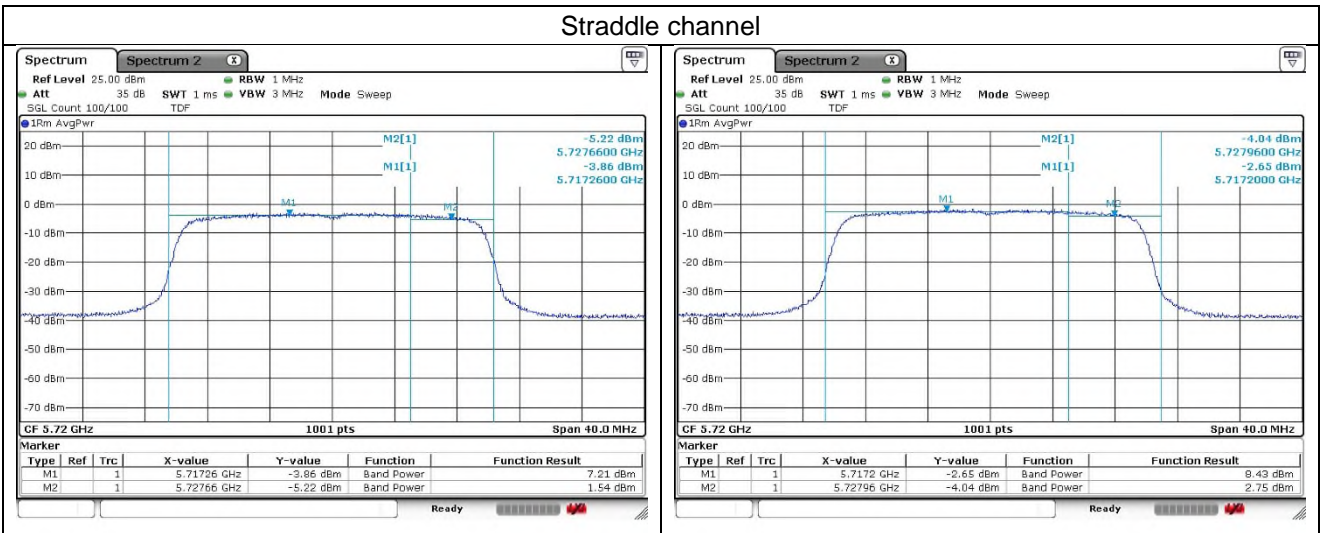


802.11ax_HE20 Band 2C/Band 3_SU

Ant.1

Ant.2

Straddle channel

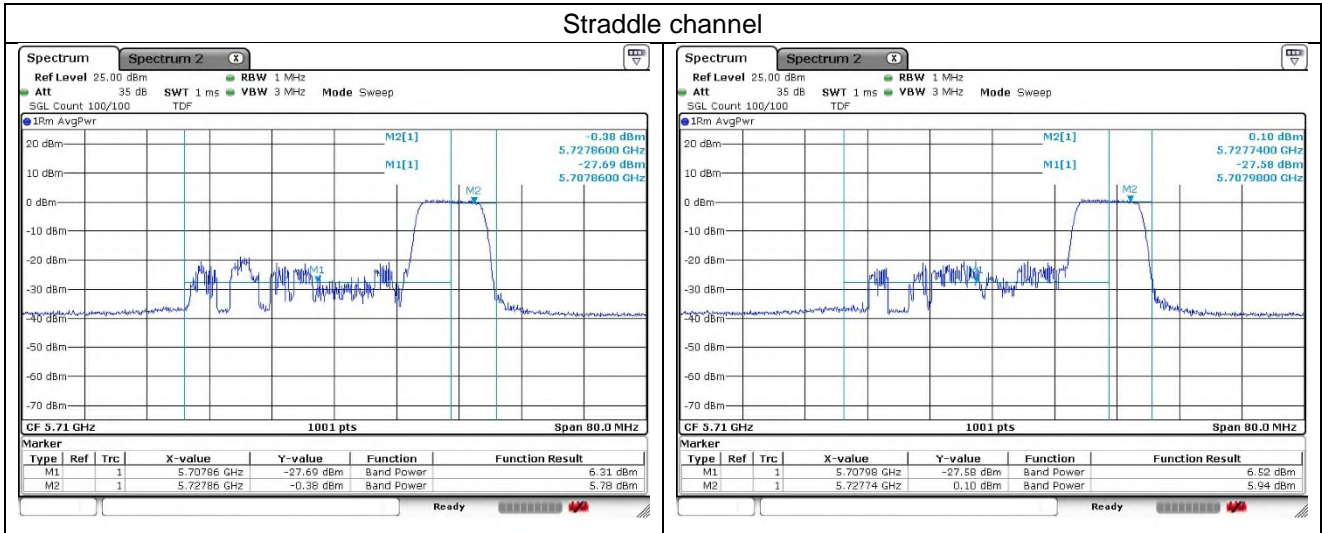


- SISO

802.11ax_HE40 Band 2C/Band 3_106T_56 RU

Ant.1

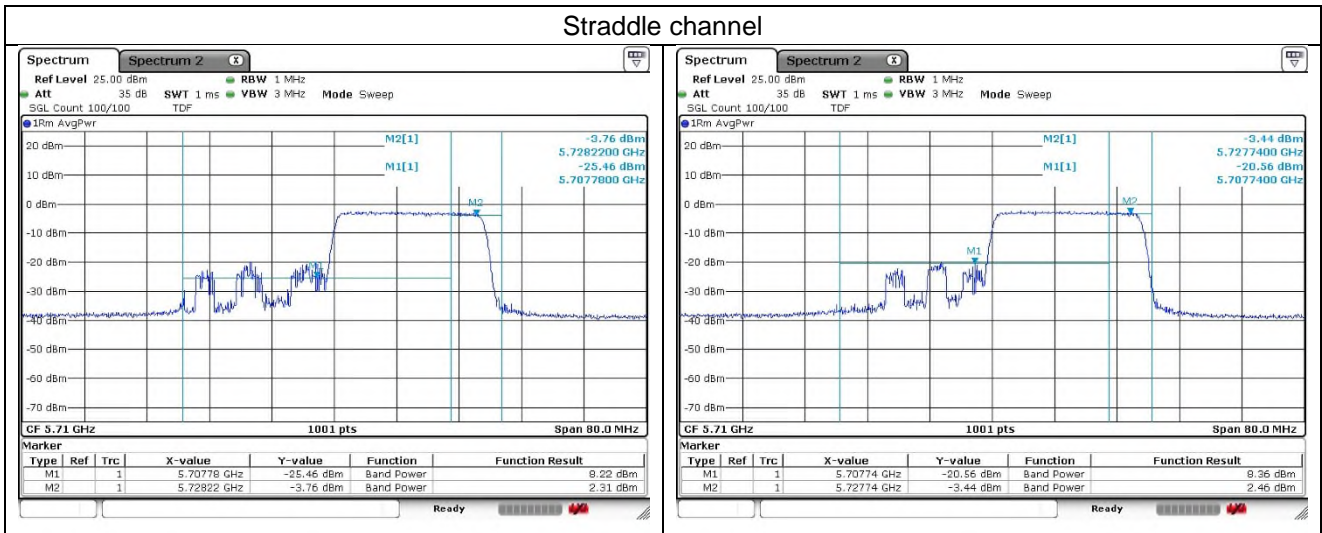
Ant.2



802.11ax_HE40 Band 2C/Band 3_242T_62 RU

Ant.1

Ant.2

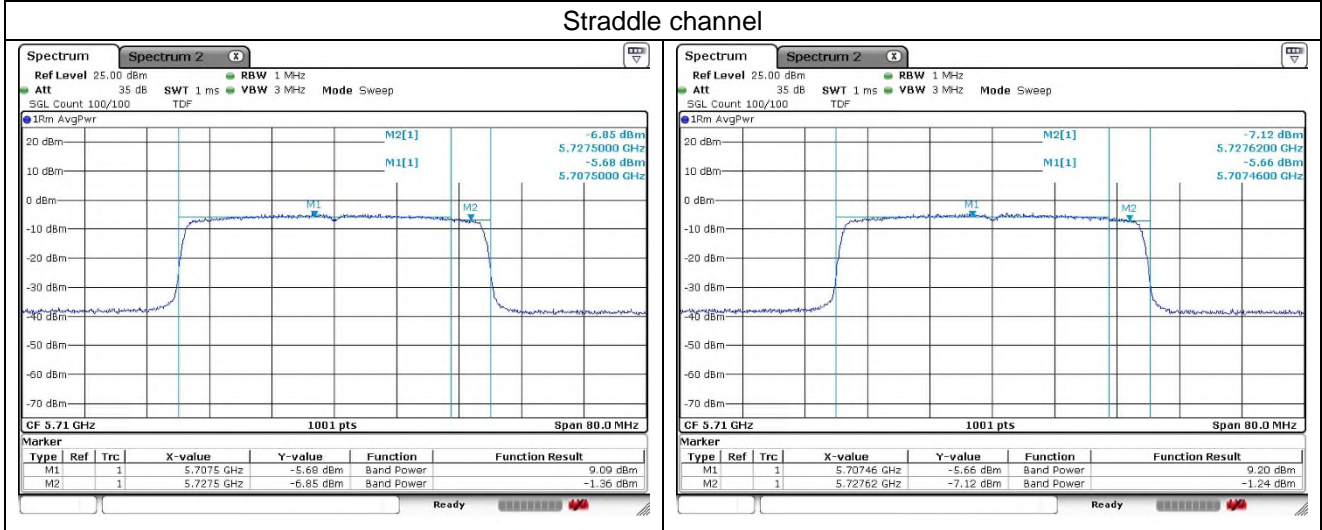


802.11ax_HE40 Band 2C/Band 3_SU

Ant.1

Ant.2

Straddle channel



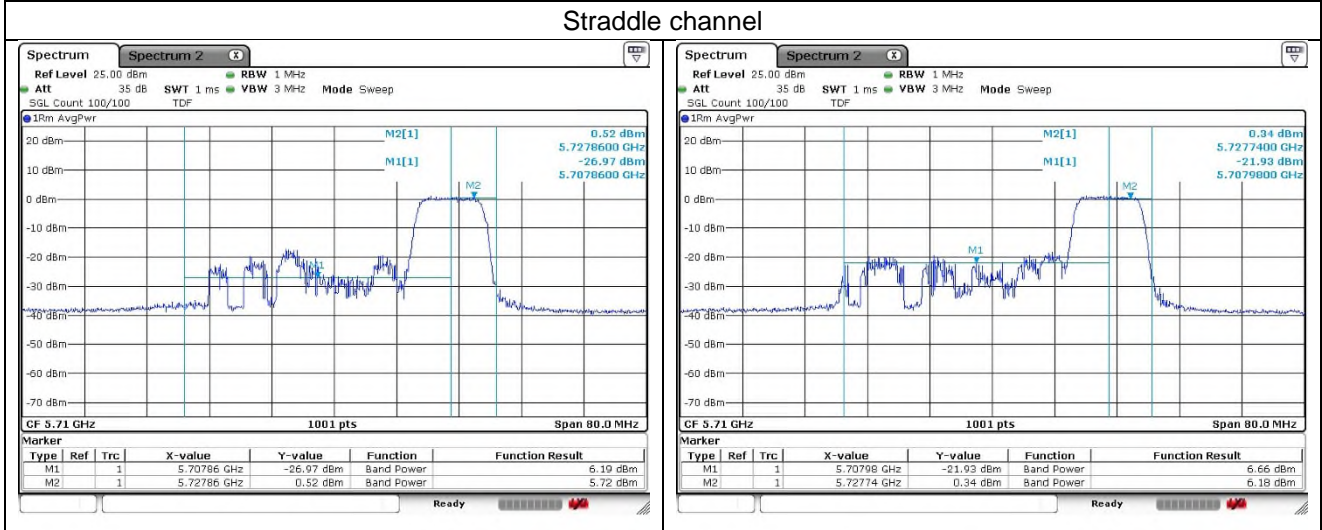
- MIMO

802.11ax_HE40 Band 2C/Band 3_106T_56 RU

Ant.1

Ant.2

Straddle channel

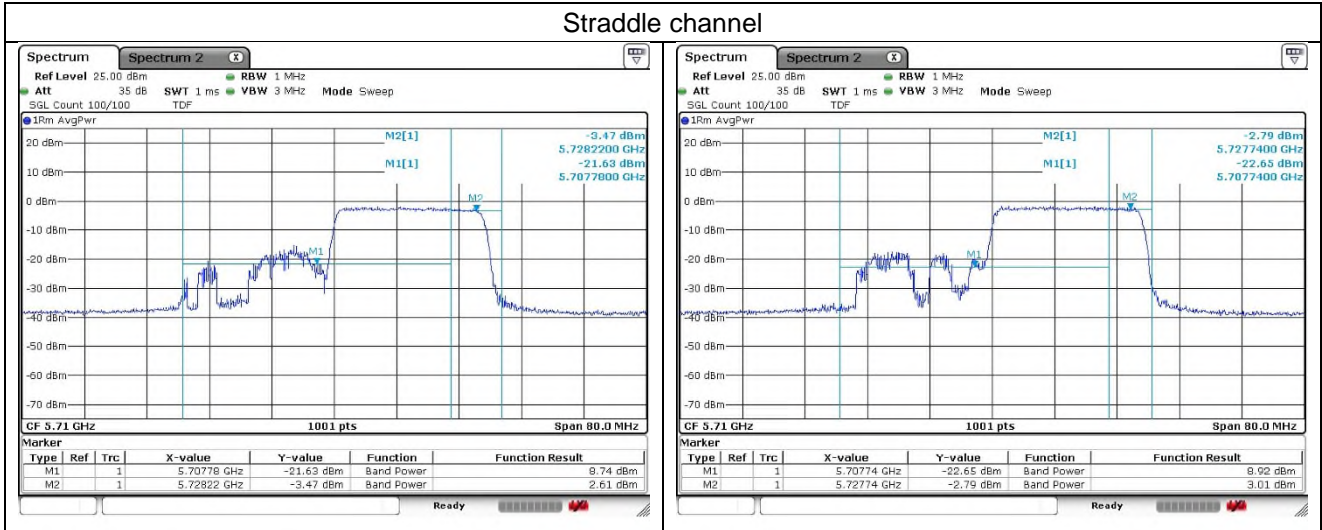


802.11ax_HE40 Band 2C/Band 3_242T_62 RU

Ant.1

Ant.2

Straddle channel

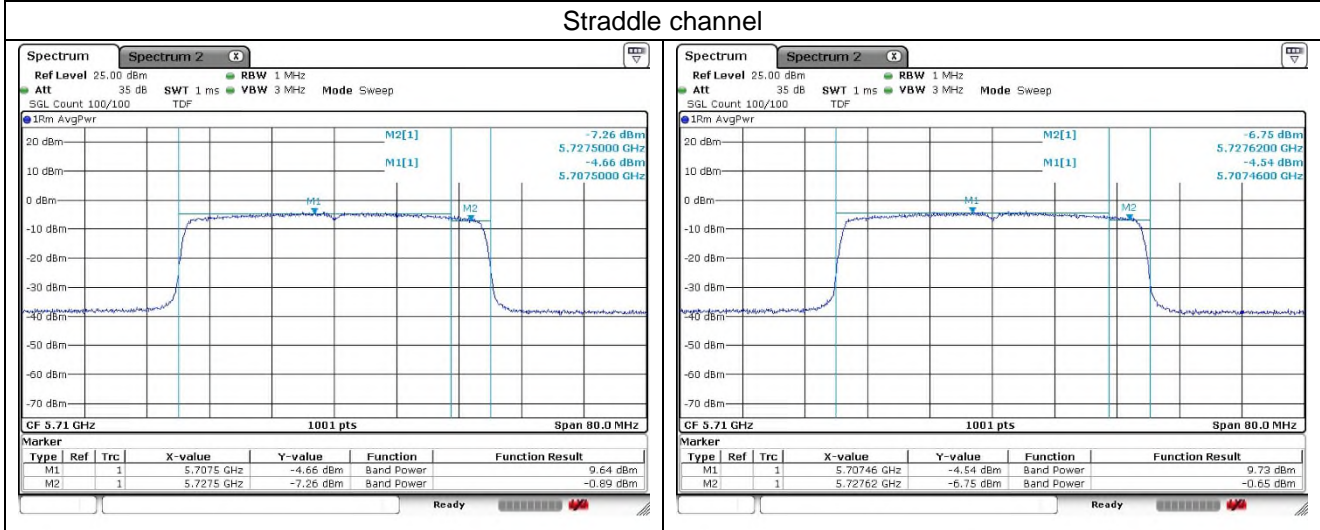


802.11ax_HE40 Band 2C/Band 3_SU

Ant.1

Ant.2

Straddle channel



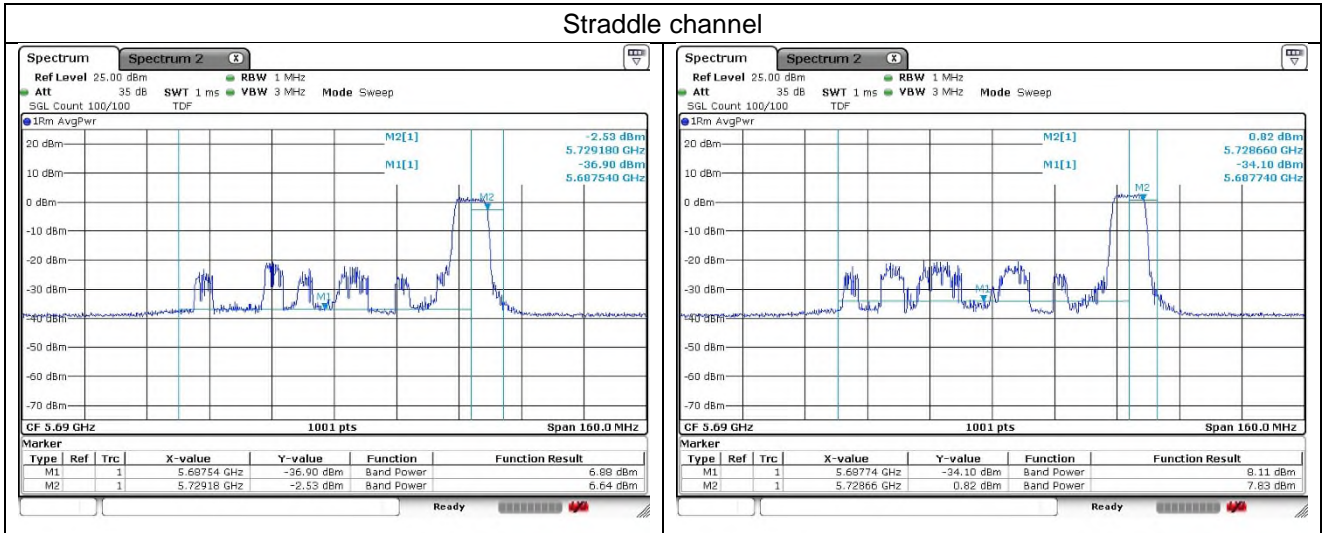
- SISO

802.11ax_HE80 Band 2C/Band 3_106T_60 RU

Ant.1

Ant.2

Straddle channel

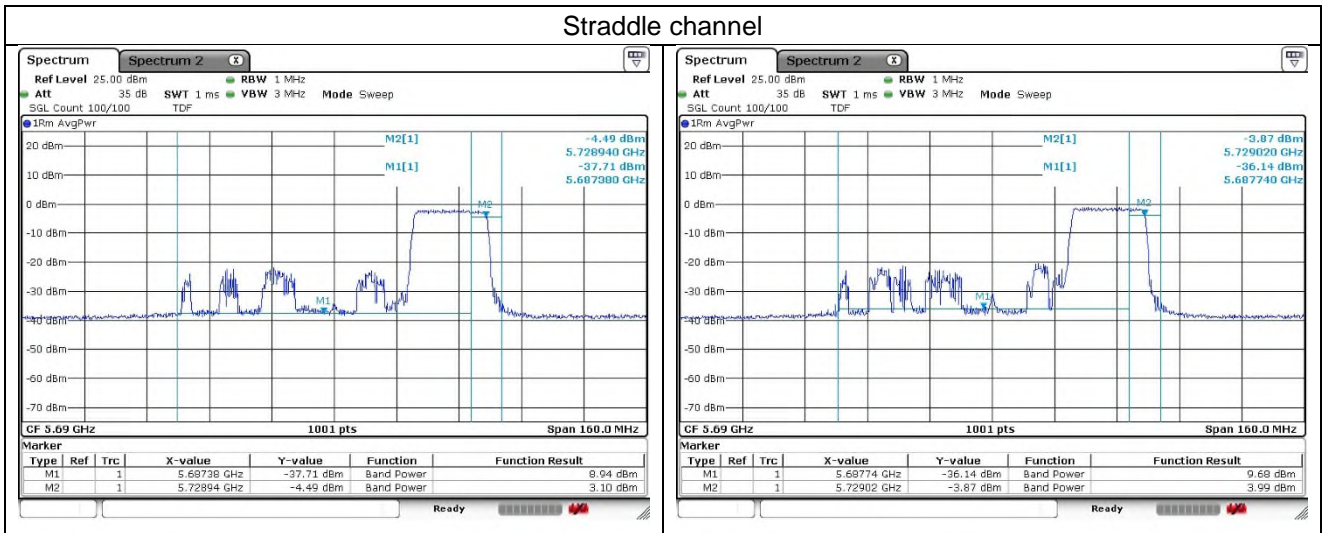


802.11ax_HE80 Band 2C/Band 3_242T_64 RU

Ant.1

Ant.2

Straddle channel

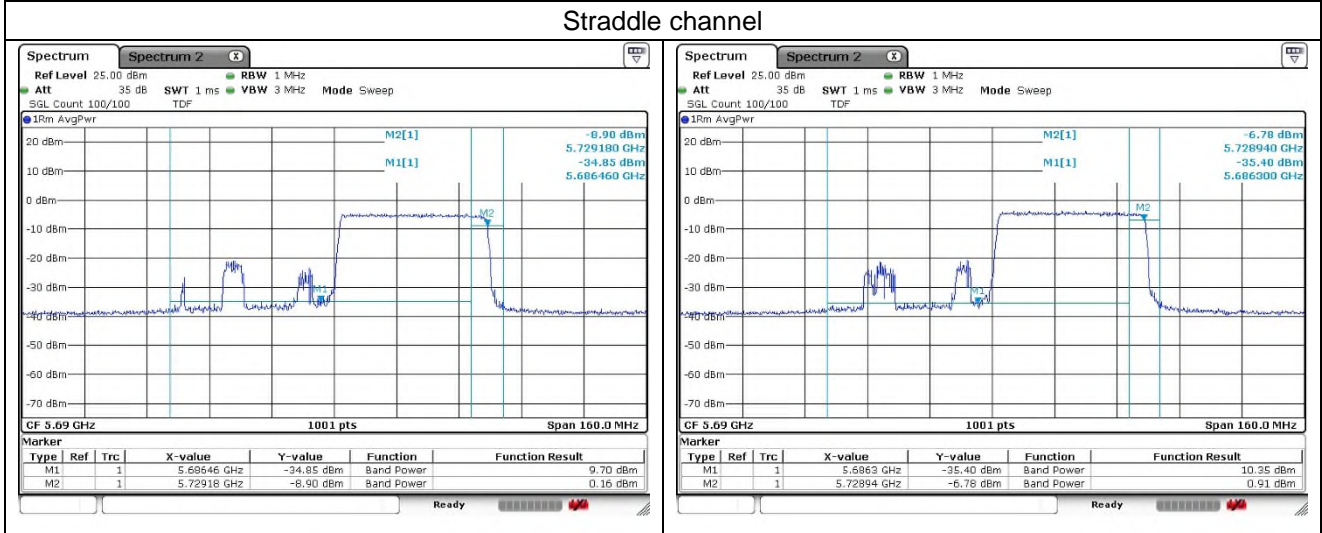


802.11ax_HE80 Band 2C/Band 3_484T_66 RU

Ant.1

Ant.2

Straddle channel

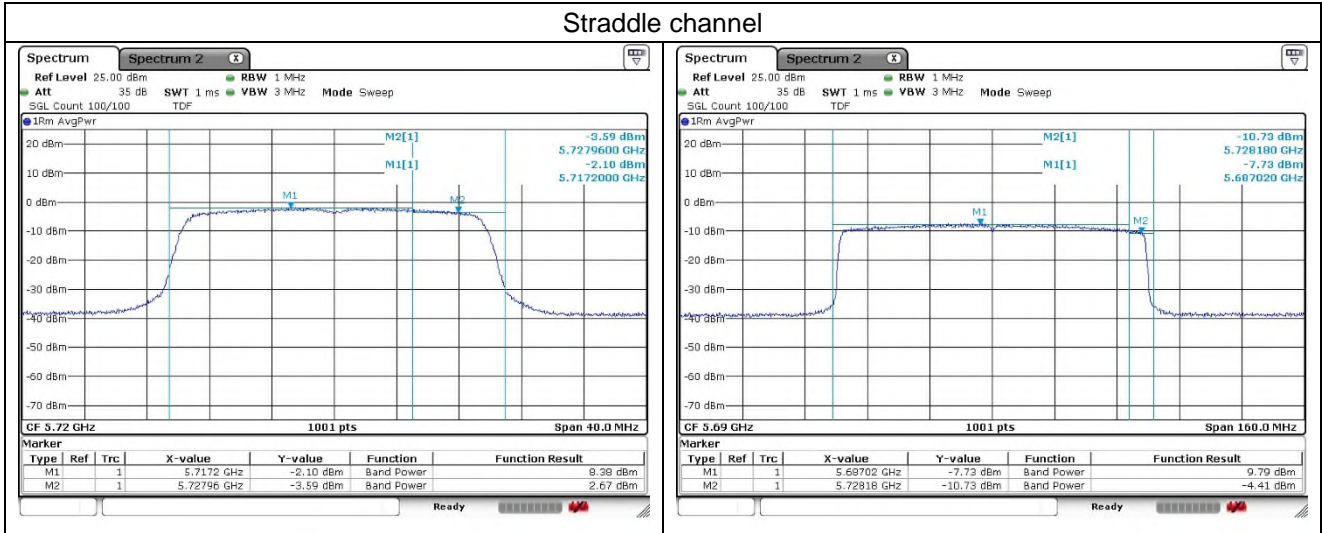


802.11ax_HE80 Band 2C/Band 3_SU

Ant.1

Ant.2

Straddle channel



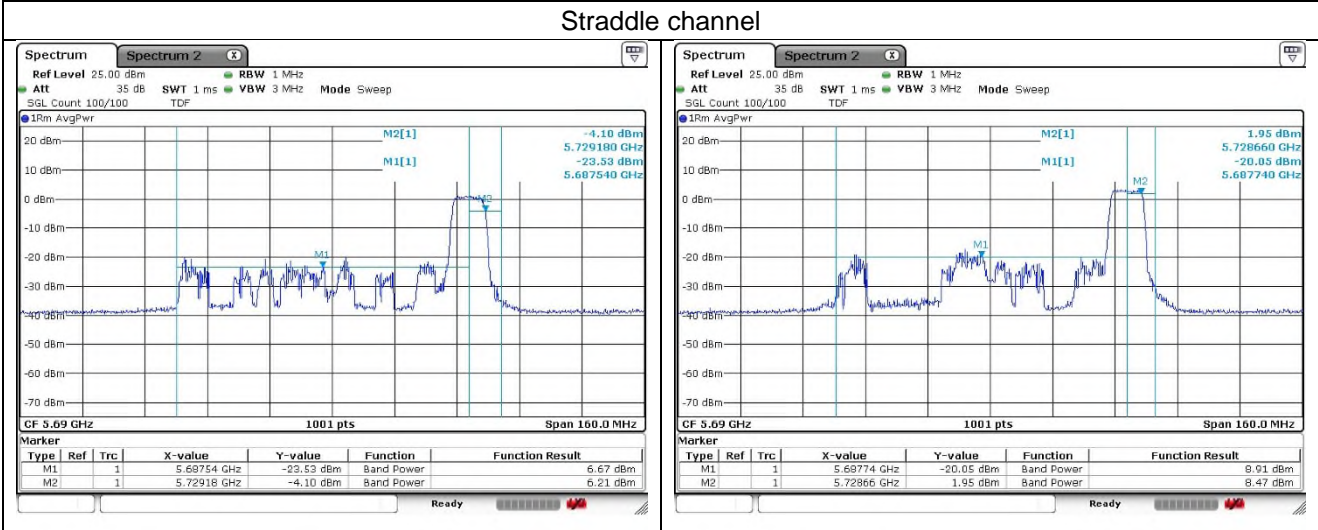
- MIMO

802.11ax_HE80 Band 2C/Band 3_106T_60 RU

Ant.1

Ant.2

Straddle channel

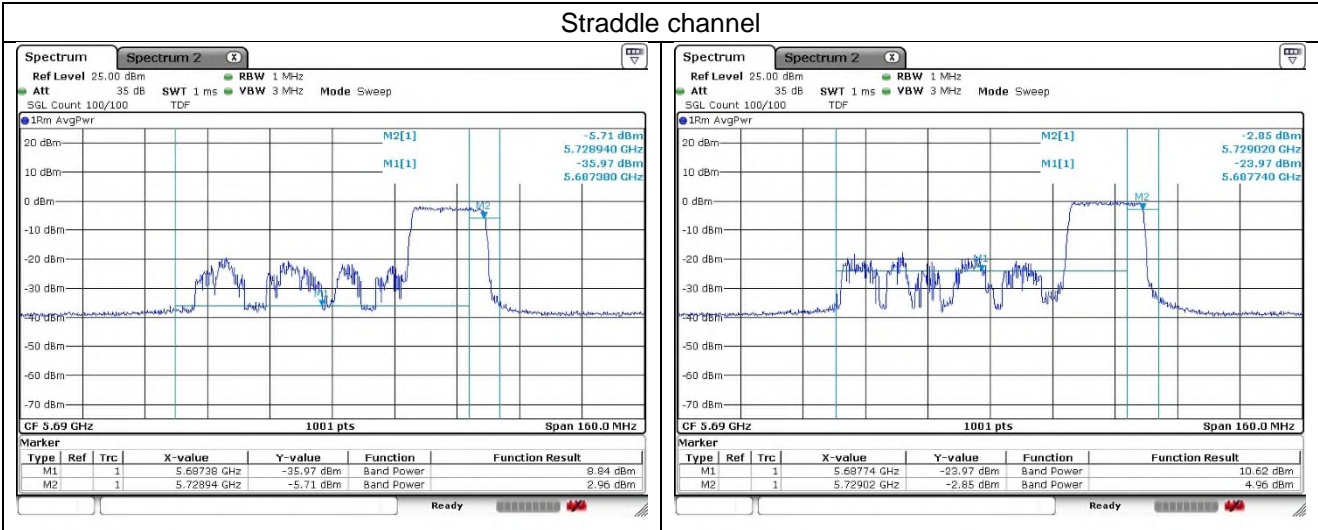


802.11ax_HE80 Band 2C/Band 3_242T_64 RU

Ant.1

Ant.2

Straddle channel

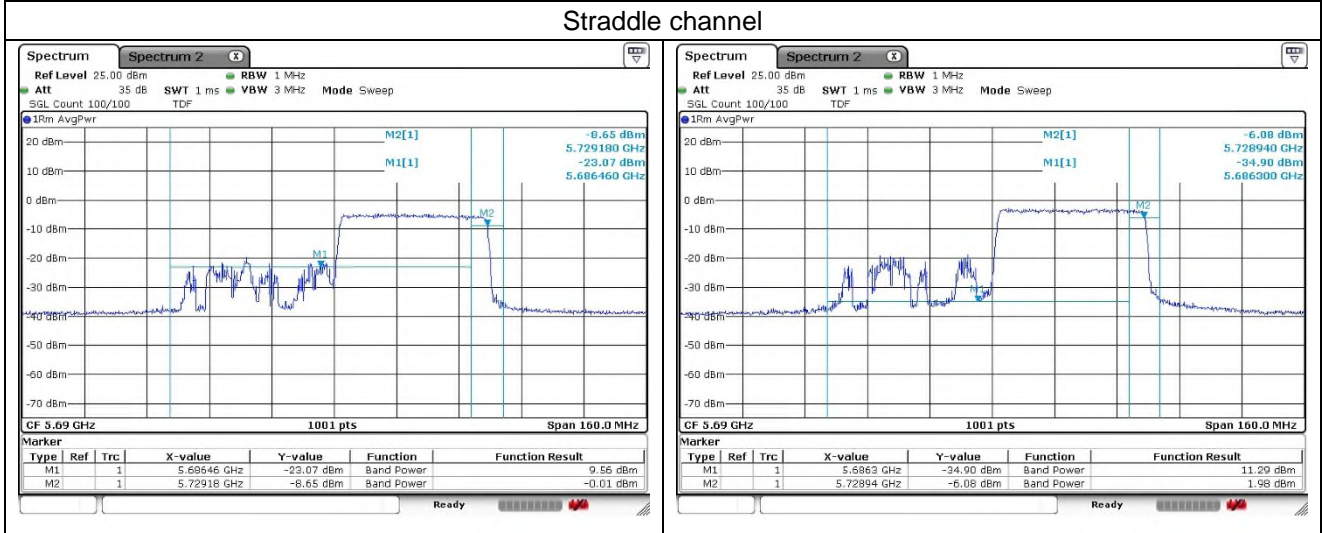


802.11ax_HE80 Band 2C/Band 3_484T_66 RU

Ant.1

Ant.2

Straddle channel

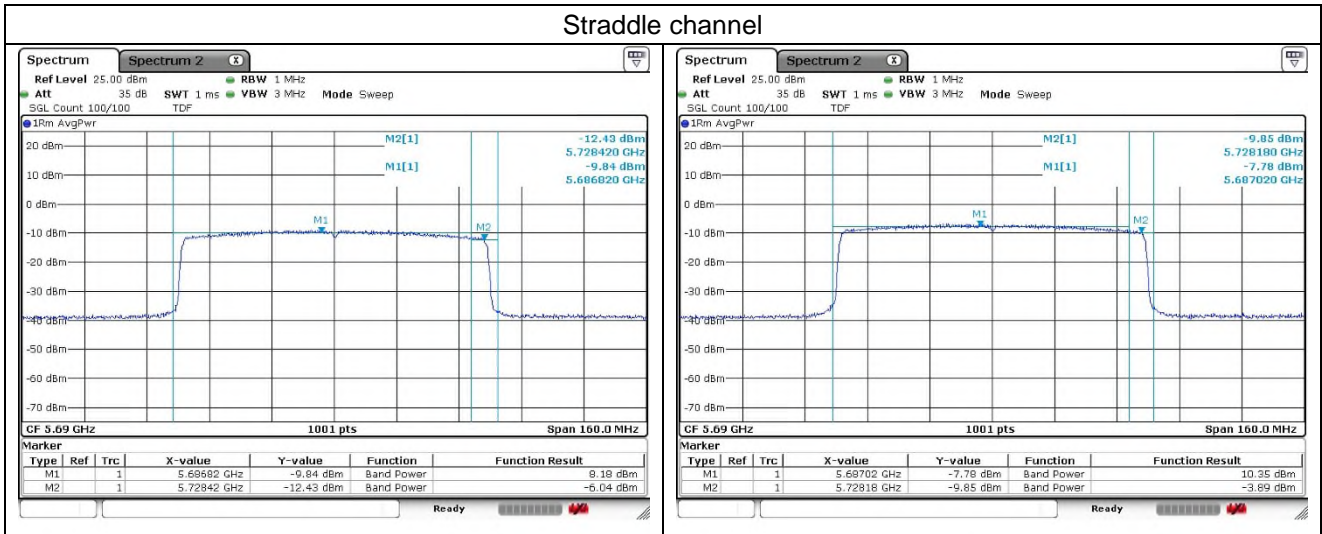


802.11ax_HE80 Band 2C/Band 3_SU

Ant.1

Ant.2

Straddle channel



6. Power Spectral Density

6.1. Test Setup



6.2. Limit

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 dB i. In addition, the maximum power spectral density shall not exceed 11 dB m in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dB i 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 dB i.

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 $11 \text{ dB m} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dB m in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dB i 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 dB i.

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 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 maximum 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 U-NII 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-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.

6.3. 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 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

- 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	

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

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- 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 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	
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	
						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	

- 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	11
					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 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

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- 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 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		

- 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 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

- Test plots

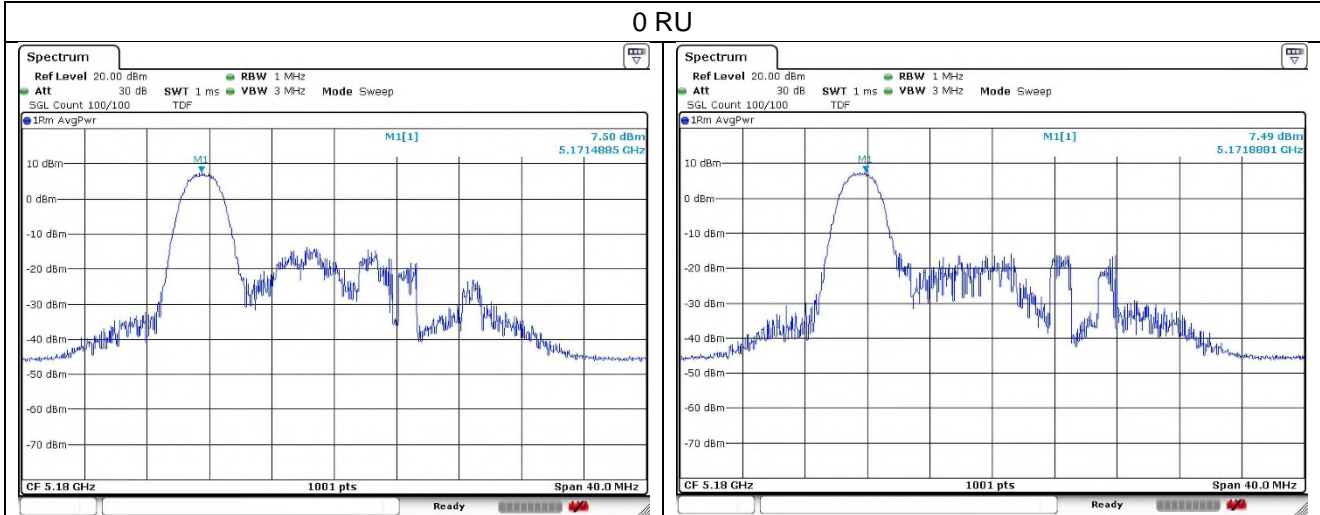
- SISO

802.11ax_HE20 Band 1_Low channel_26T

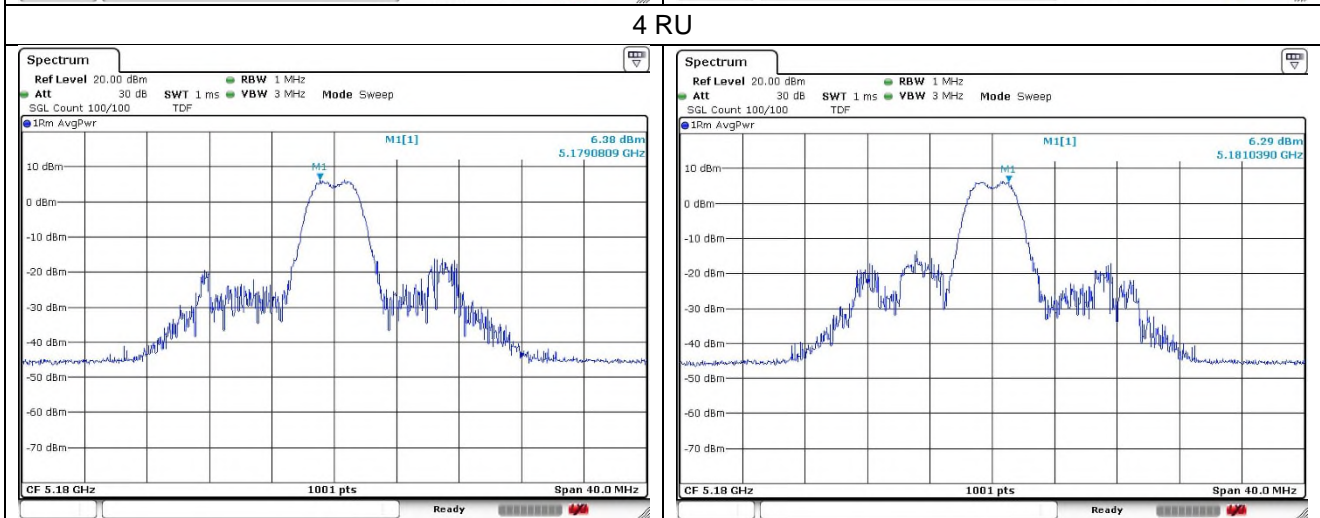
Ant.1

Ant.2

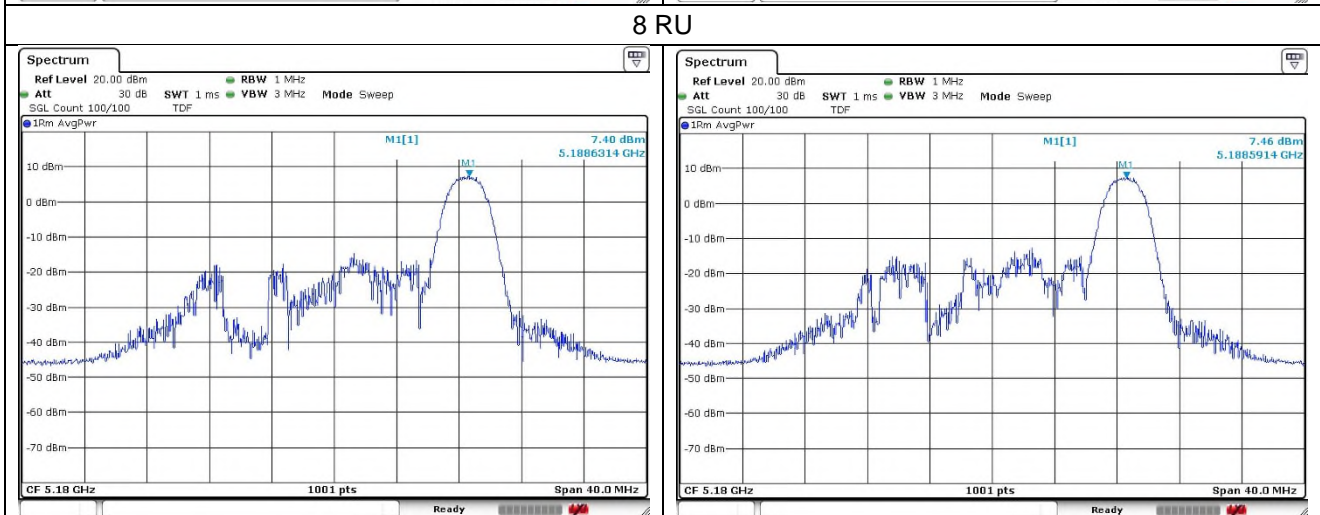
0 RU



4 RU



8 RU

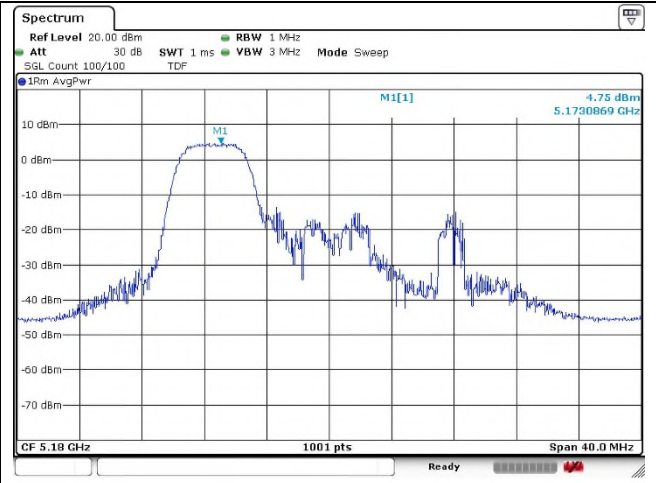
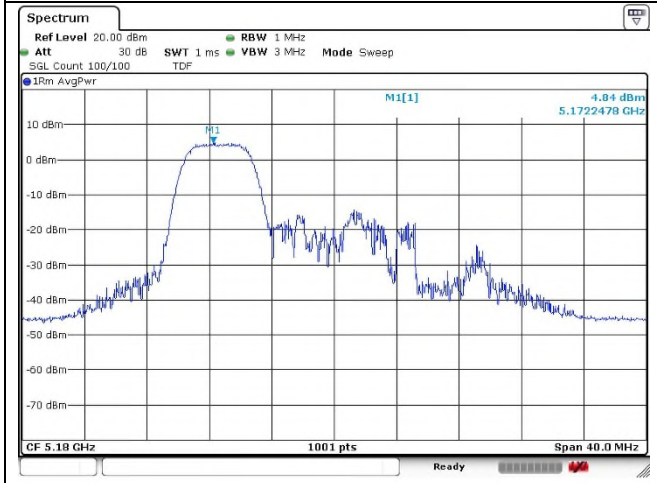


802.11ax_HE20 Band 1_Low channel_52T

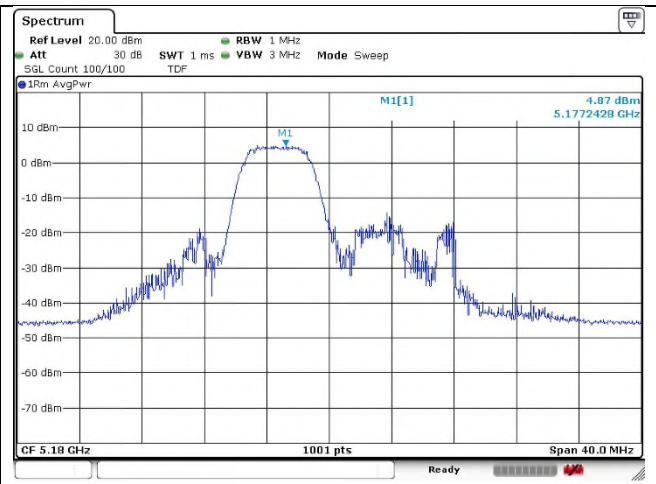
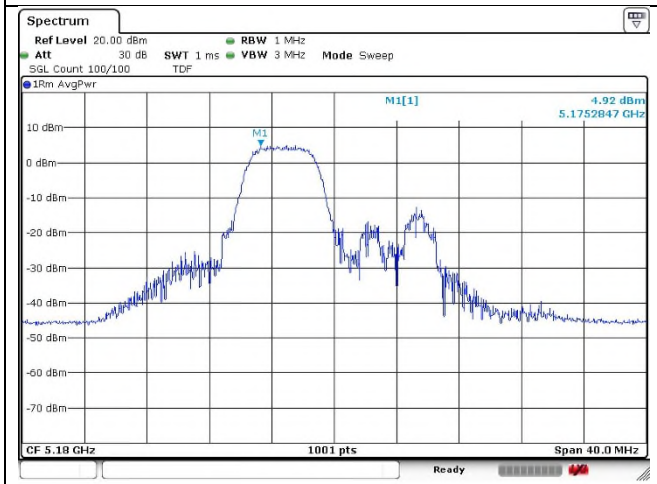
Ant.1

Ant.2

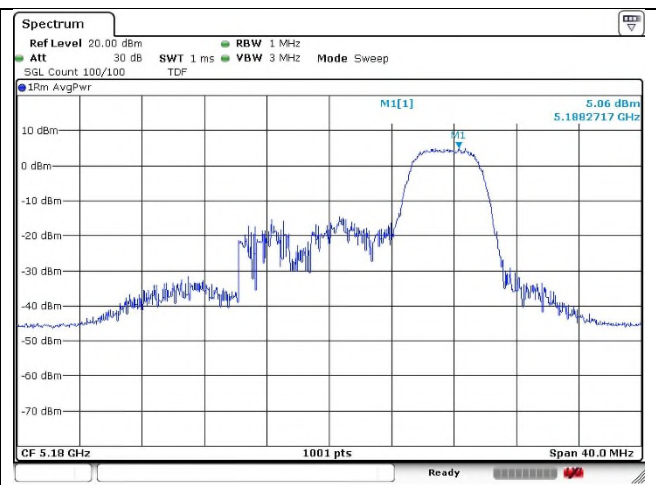
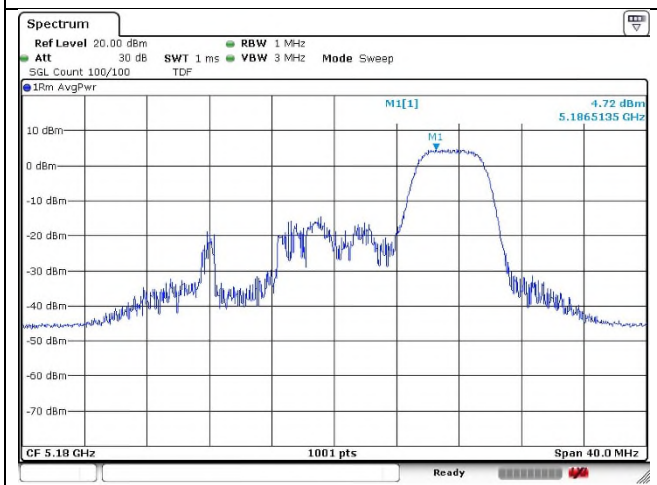
37 RU



38 RU



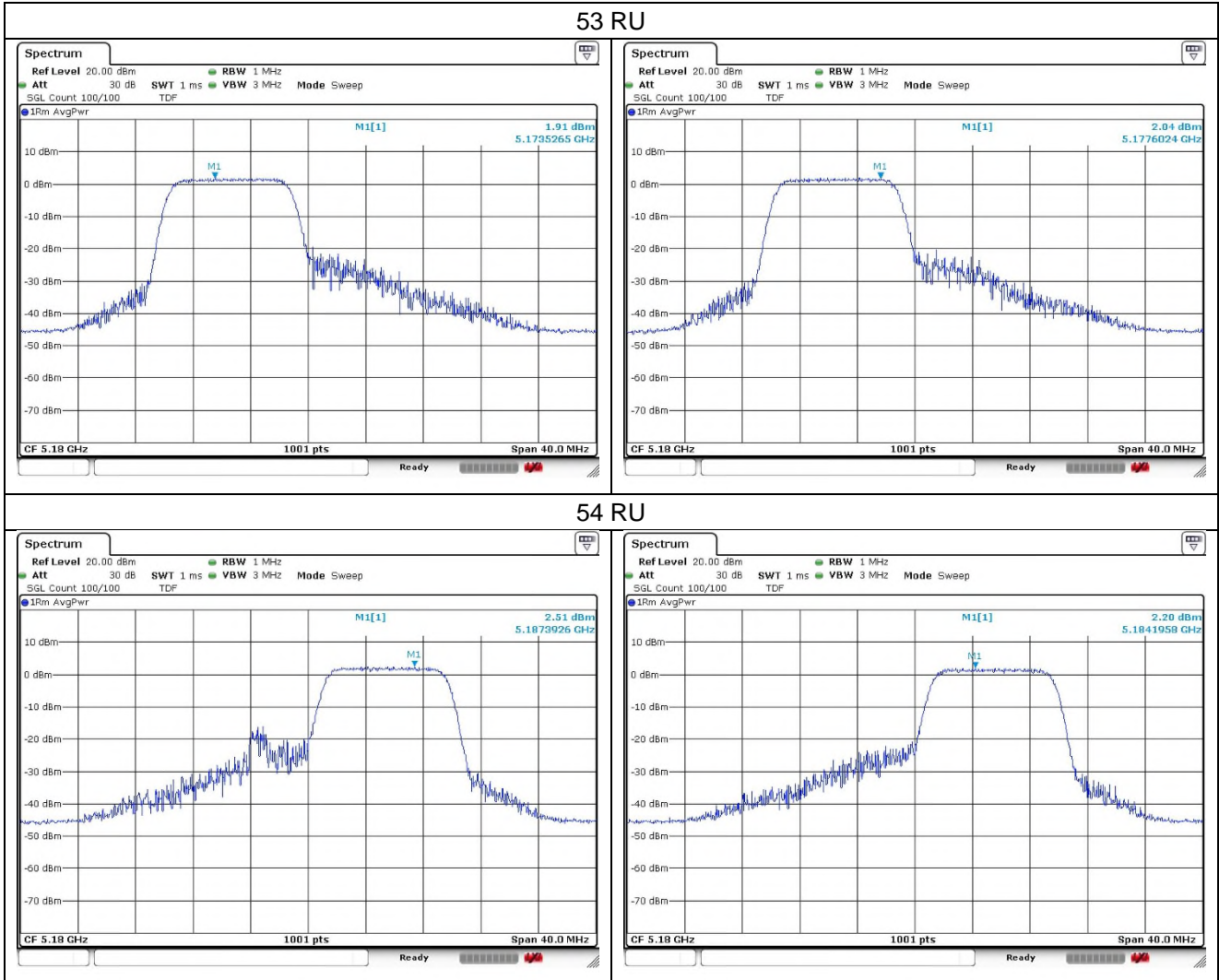
40 RU



802.11ax_HE20 Band 1_Low channel_106T

Ant.1

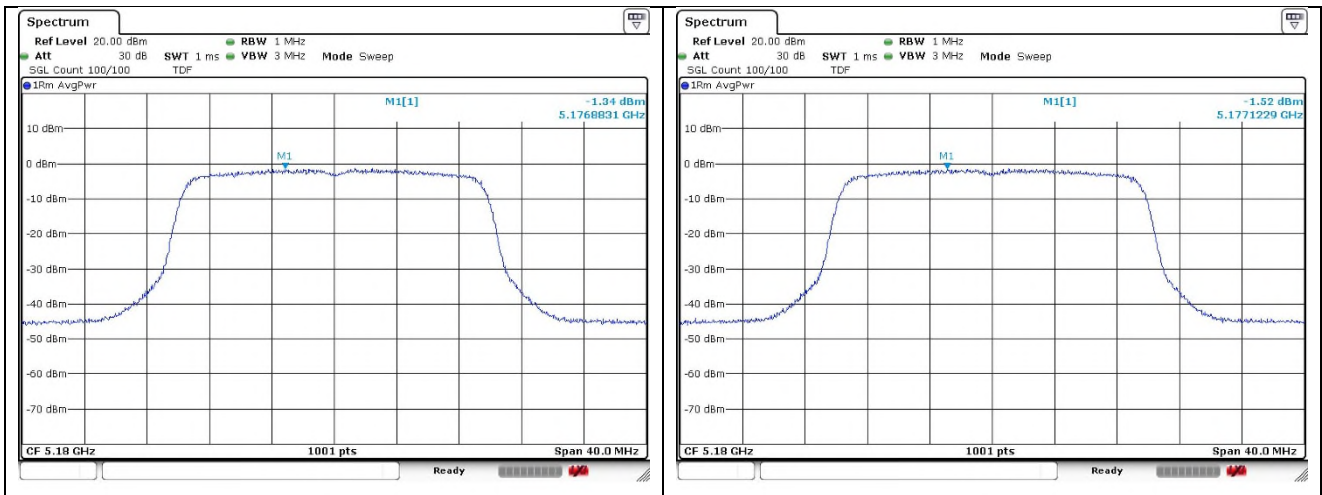
Ant.2



802.11ax_HE20 Band 1_Low channel_SU

Ant.1

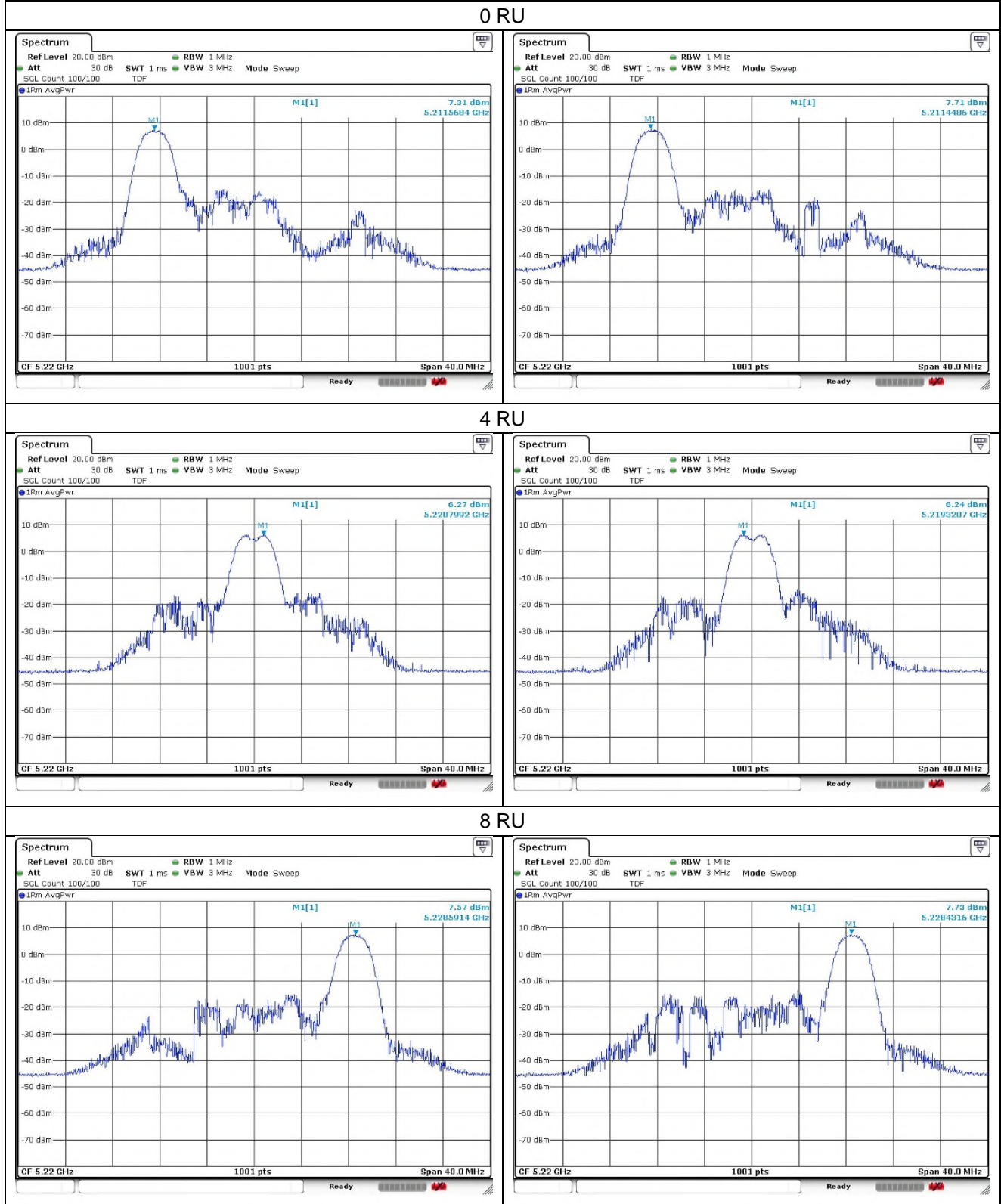
Ant.2



802.11ax_HE20 Band 1_Middle channel_26T

Ant.1

Ant.2

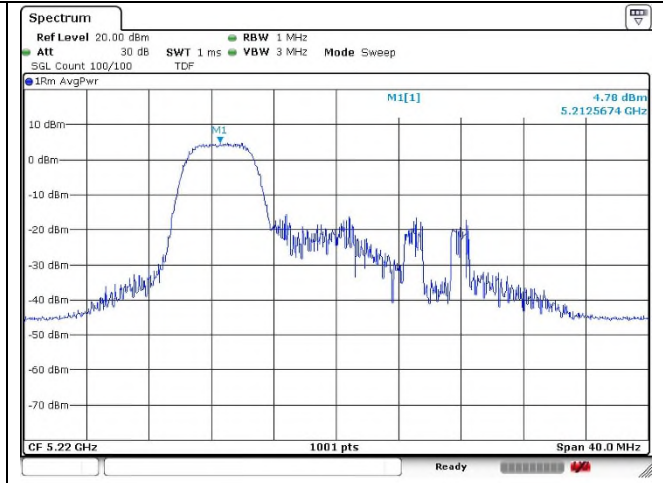
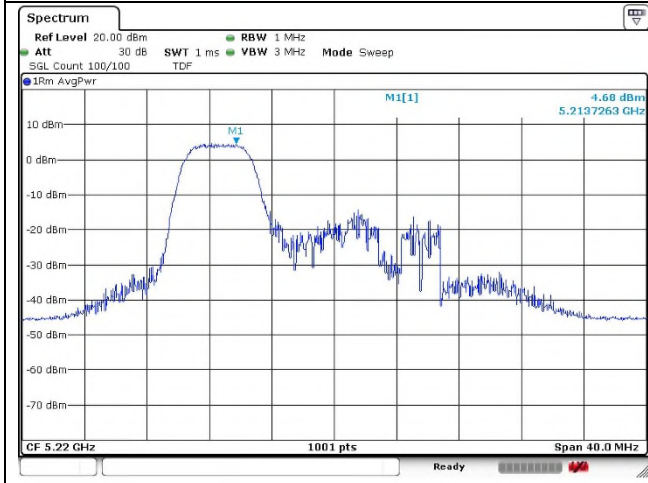


802.11ax_HE20 Band 1_Middle channel_52T

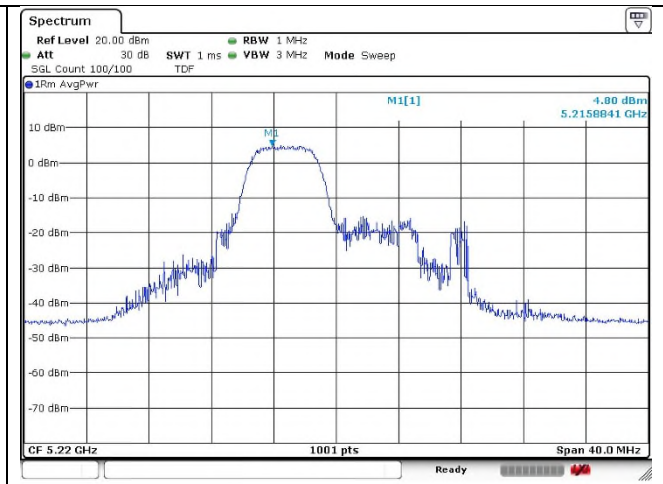
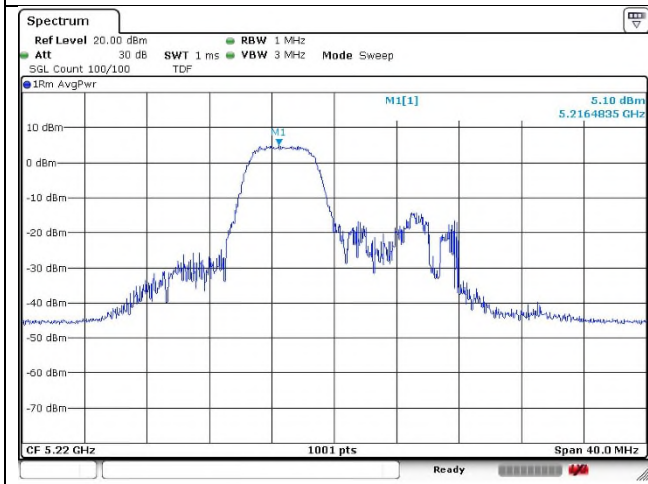
Ant.1

Ant.2

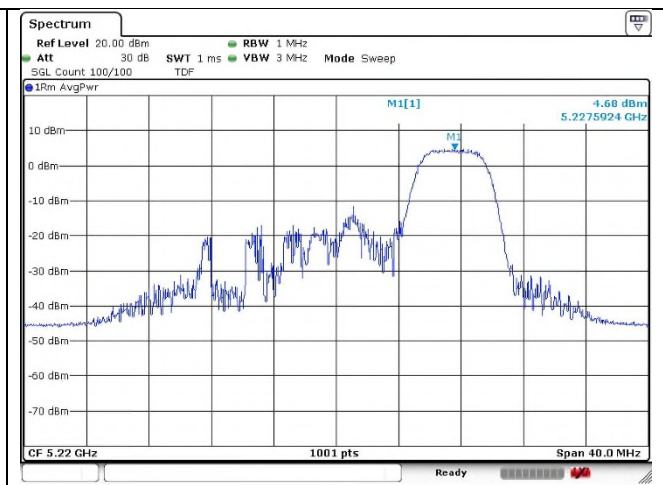
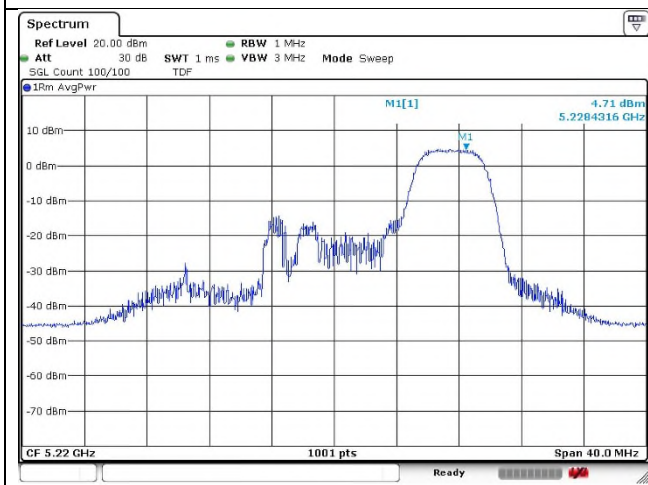
37 RU



38 RU



40 RU

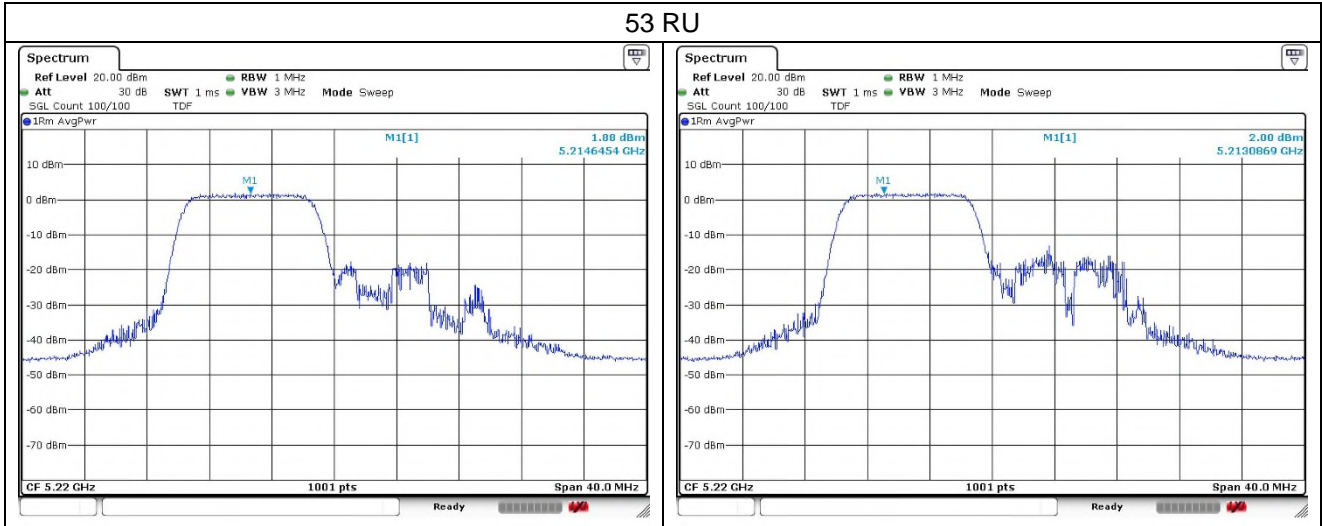


802.11ax_HE20 Band 1_Middle channel_106T

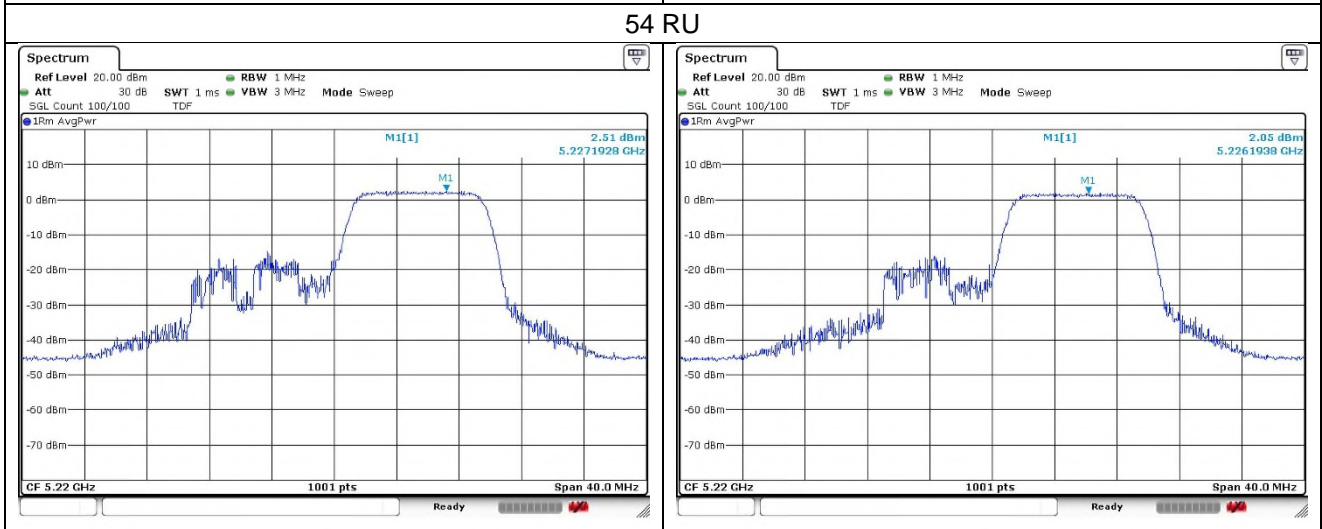
Ant.1

Ant.2

53 RU



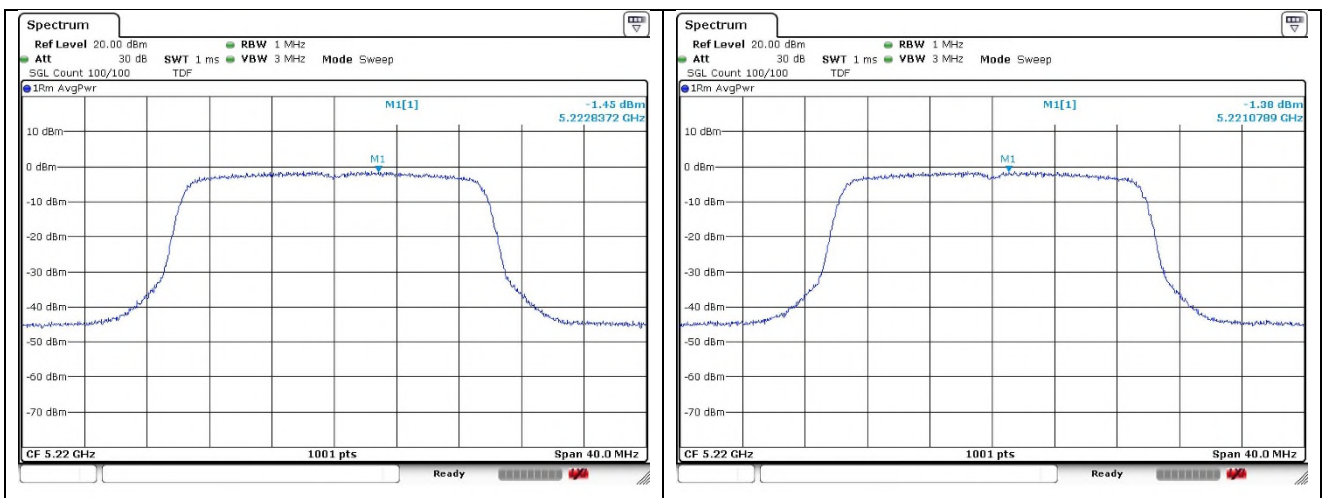
54 RU



802.11ax_HE20 Band 1_Middle channel_SU

Ant.1

Ant.2

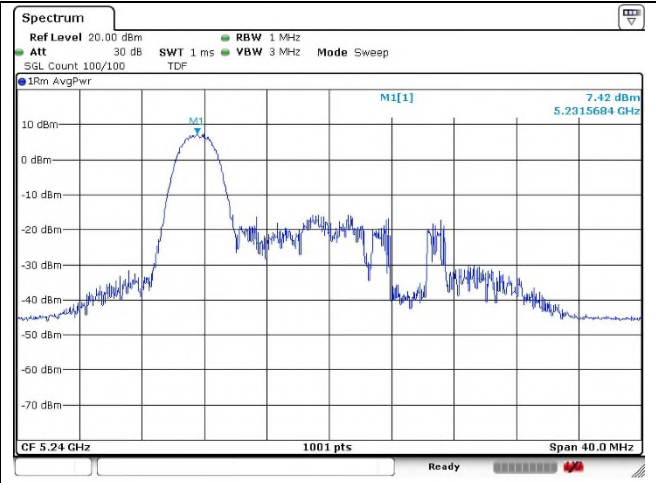
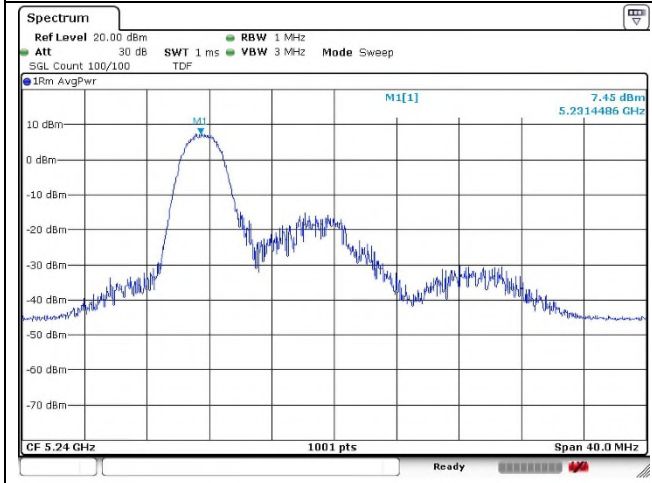


802.11ax_HE20 Band 1_High channel_26T

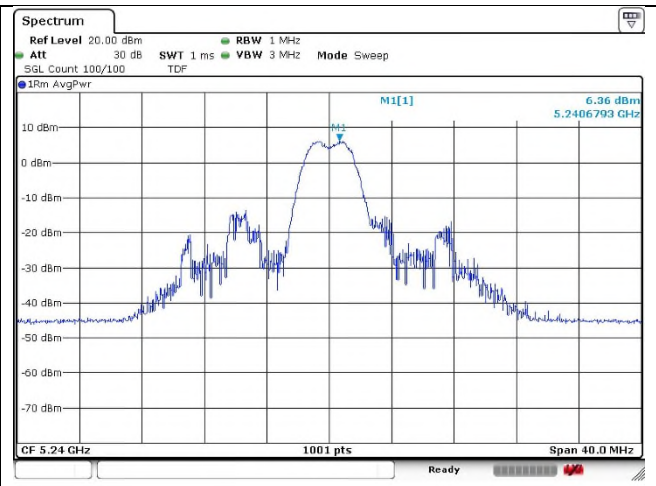
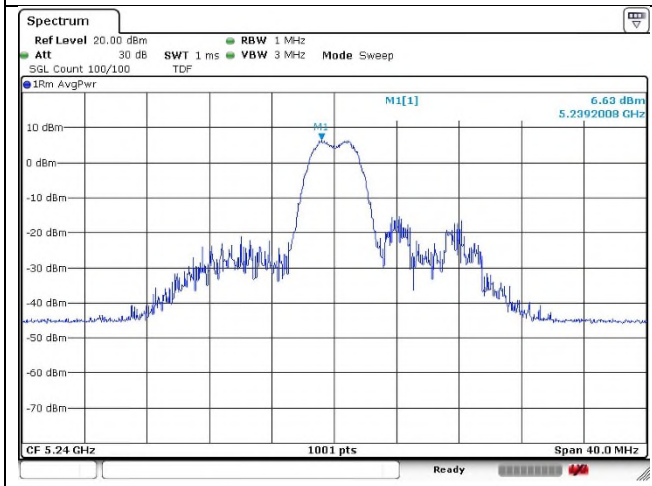
Ant.1

Ant.2

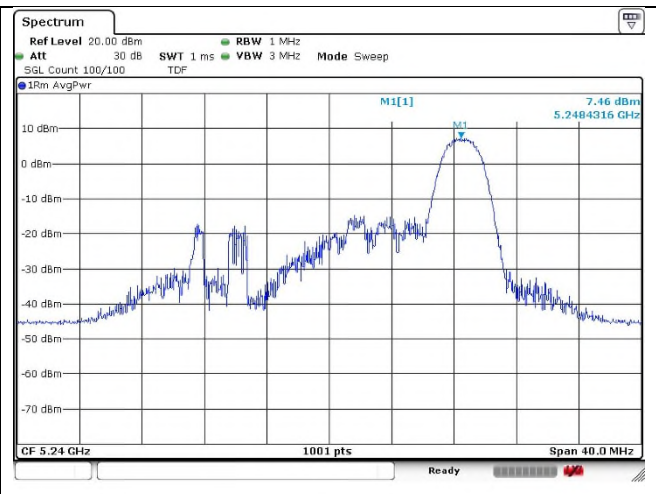
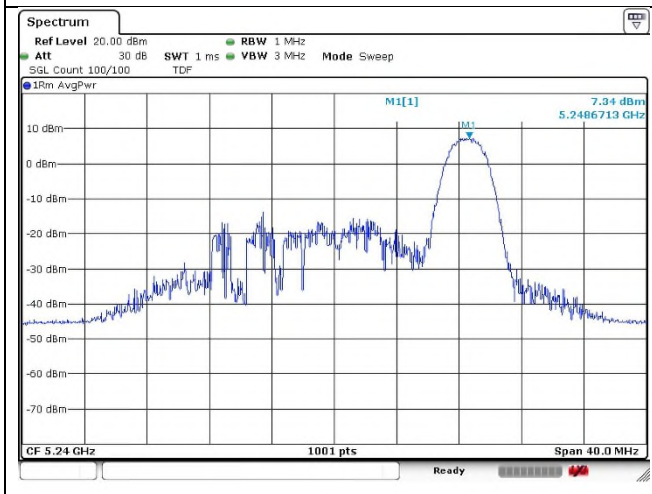
0 RU



4 RU



8 RU

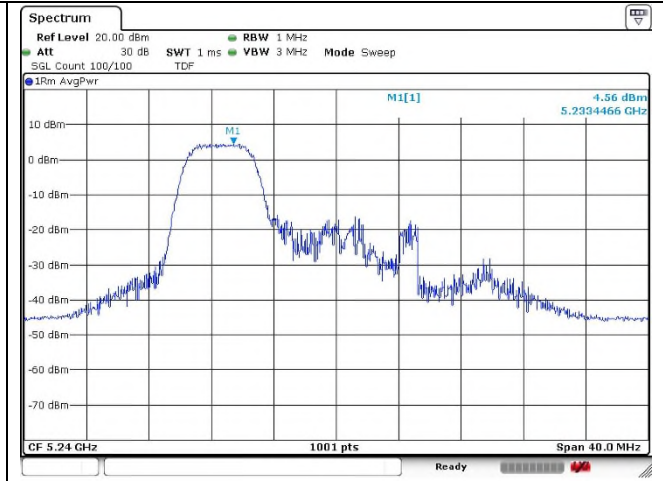
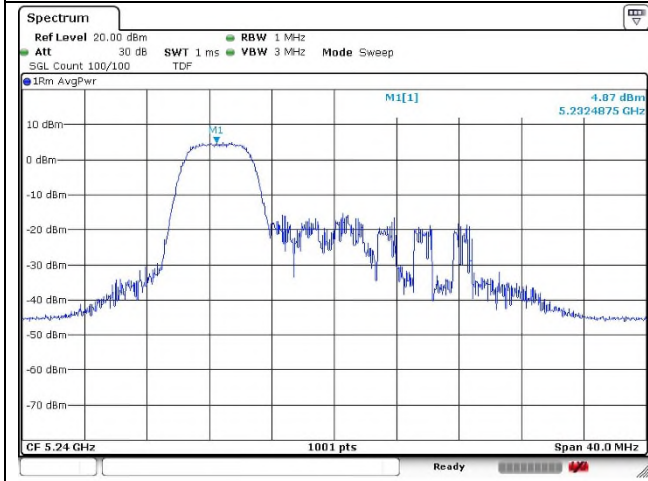


802.11ax_HE20 Band 1_High channel_52T

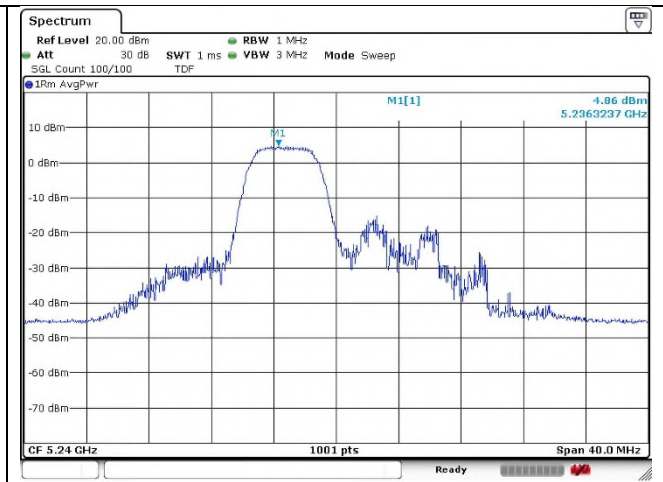
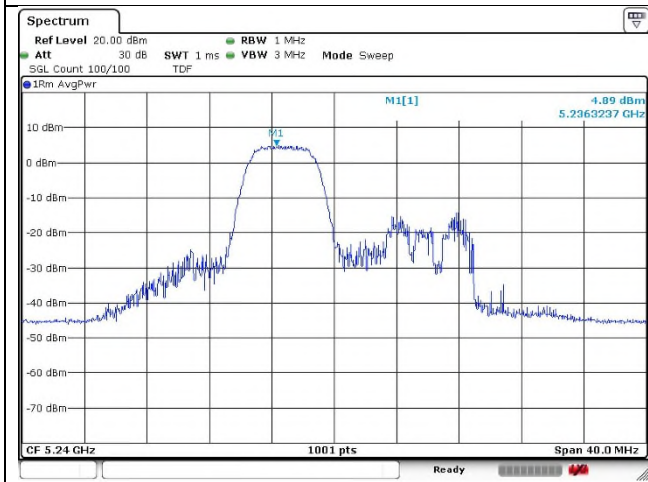
Ant.1

Ant.2

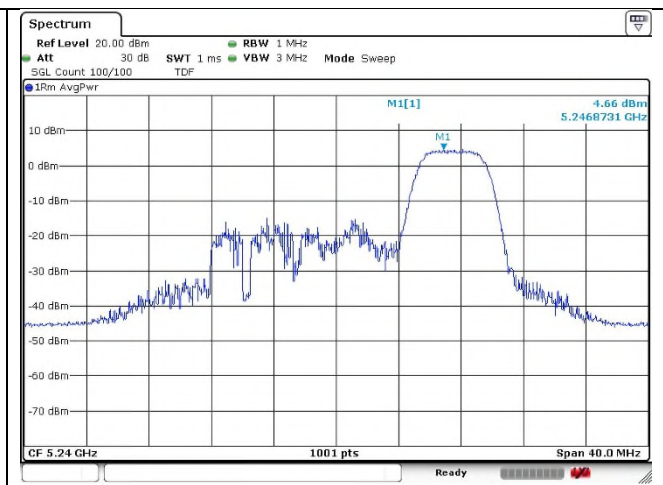
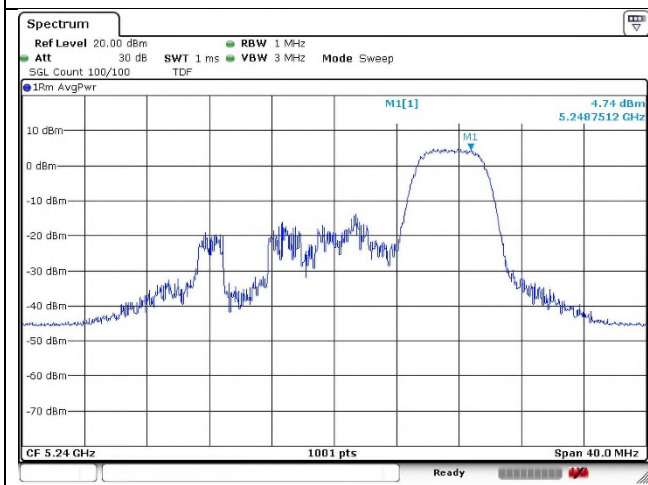
37 RU



38 RU



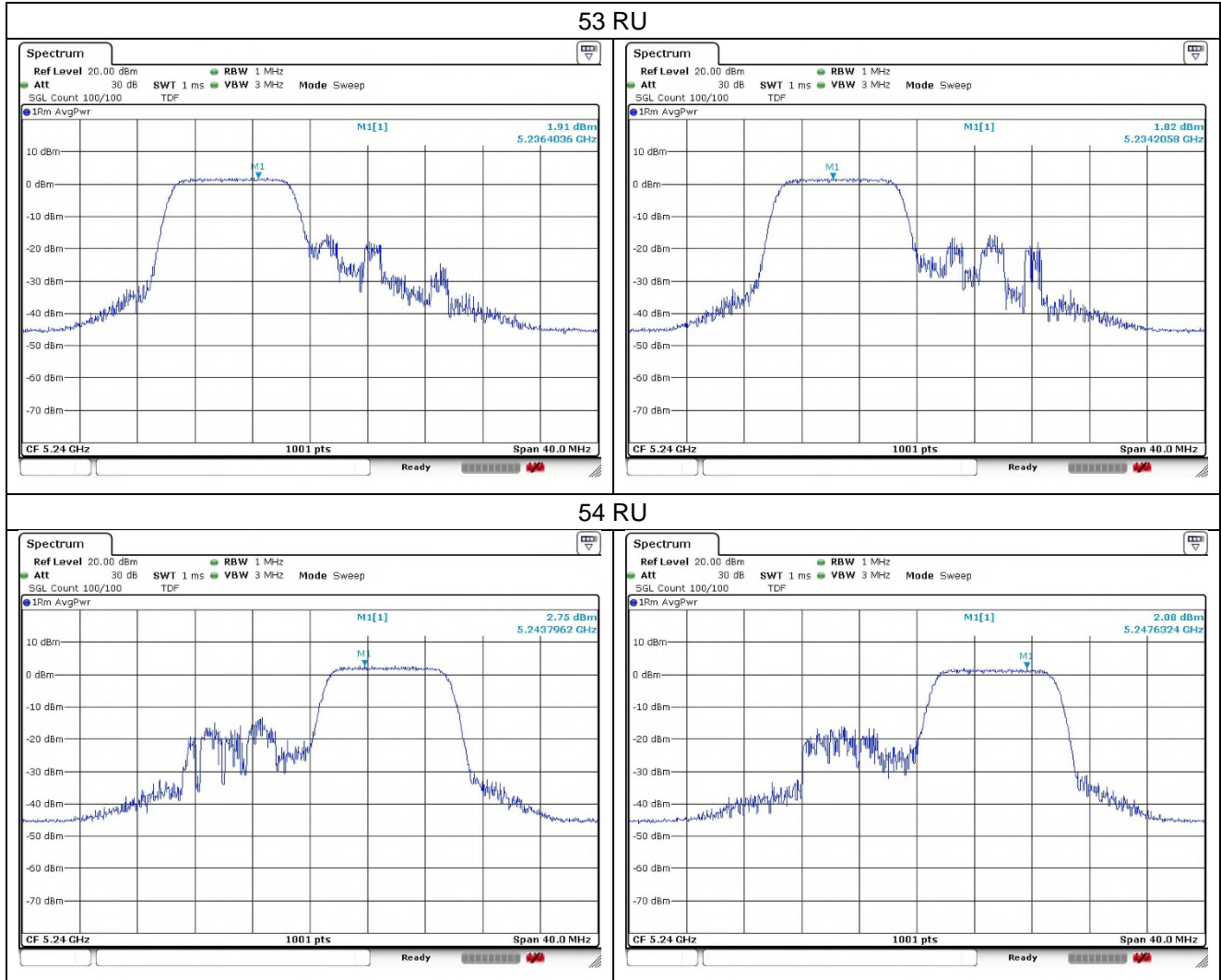
40 RU



802.11ax_HE20 Band 1_High channel_106T

Ant.1

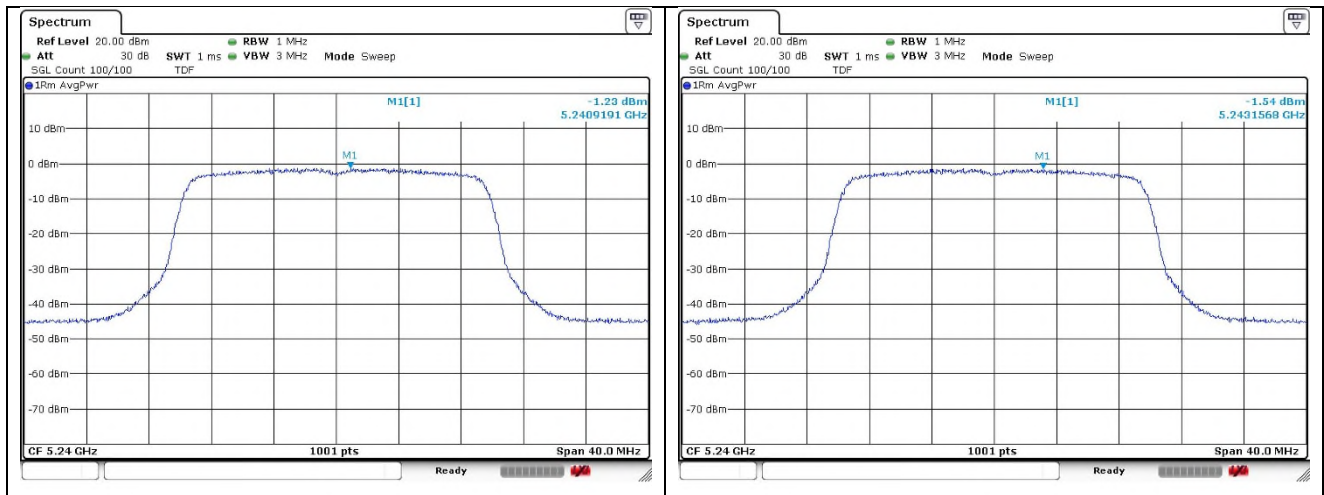
Ant.2



802.11ax_HE20 Band 1_High channel_SU

Ant.1

Ant.2

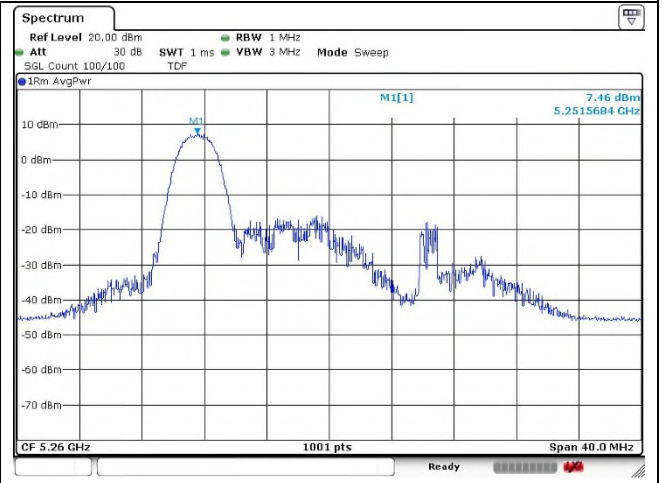
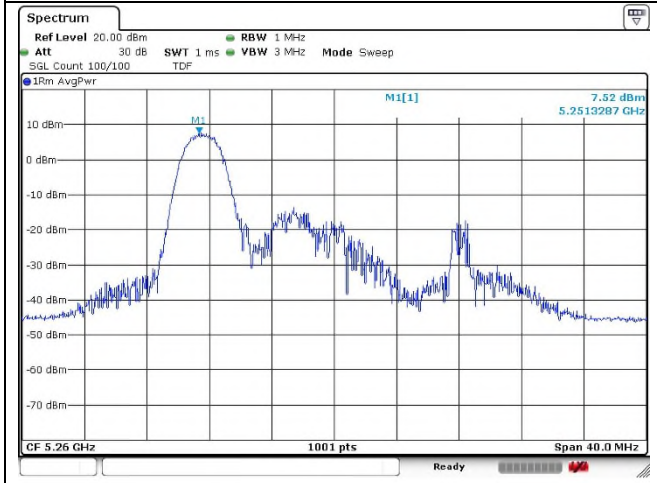


802.11ax_HE20 Band 2A_Low channel_26T

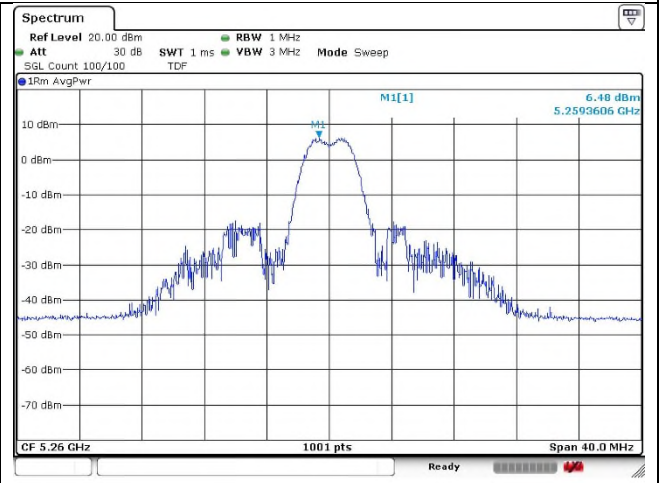
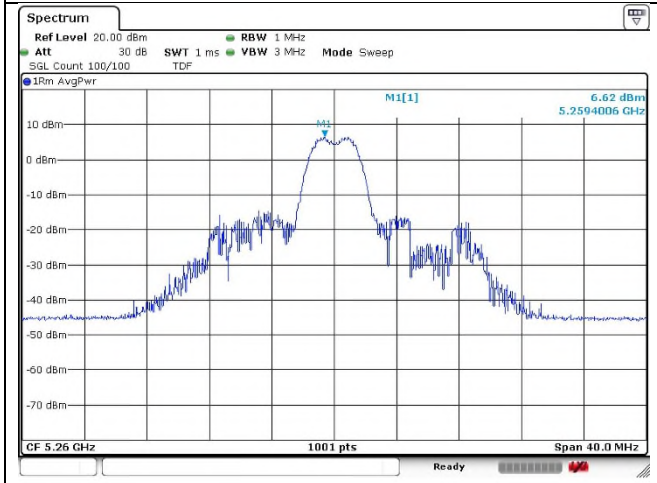
Ant.1

Ant.2

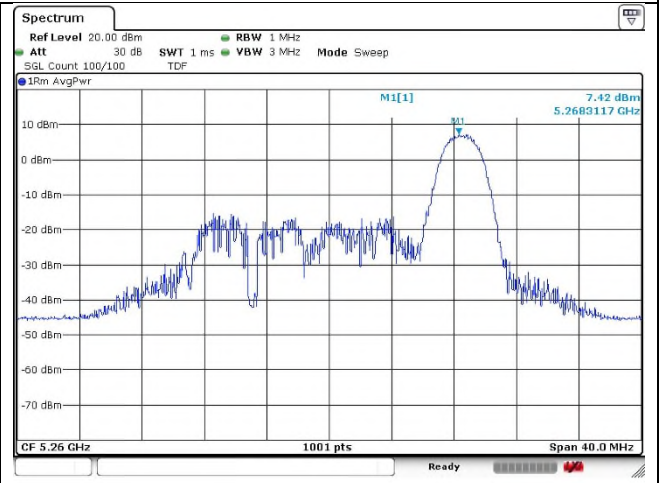
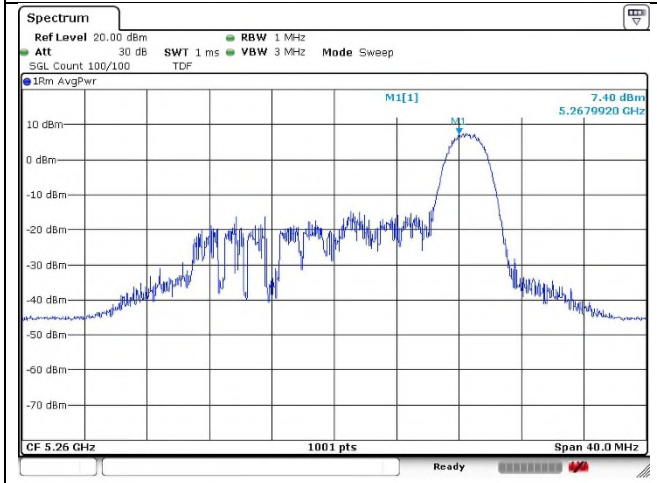
0 RU



4 RU



8 RU

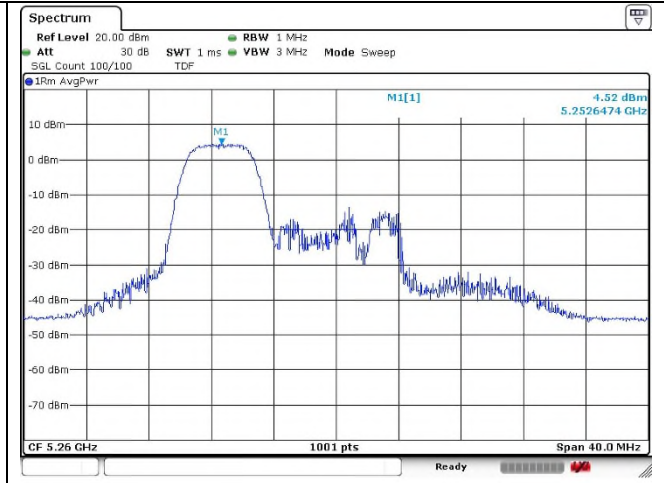
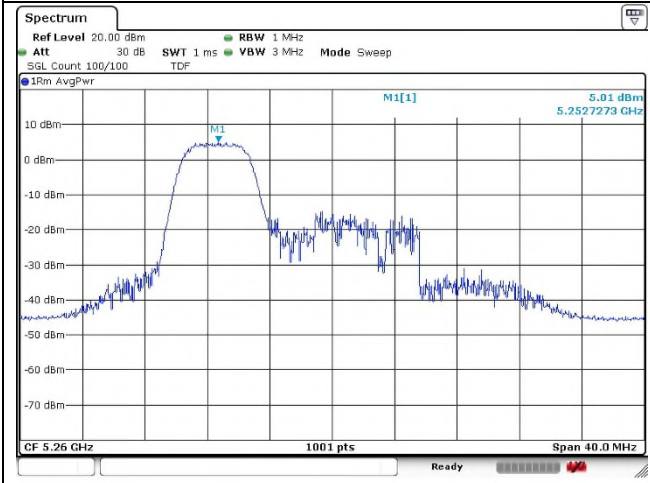


802.11ax_HE20 Band 2A_Low channel_52T

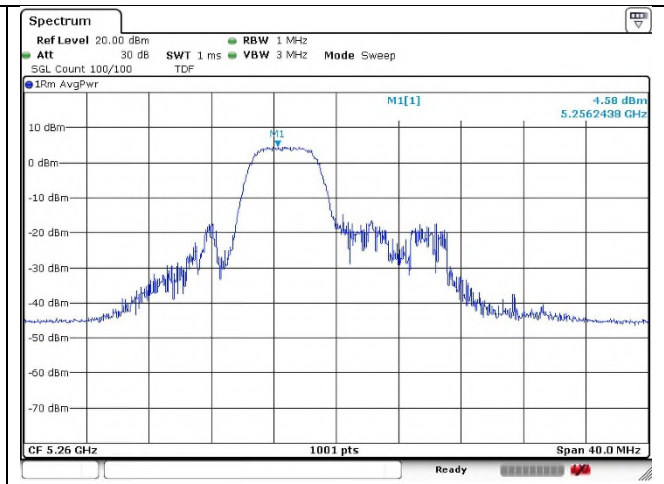
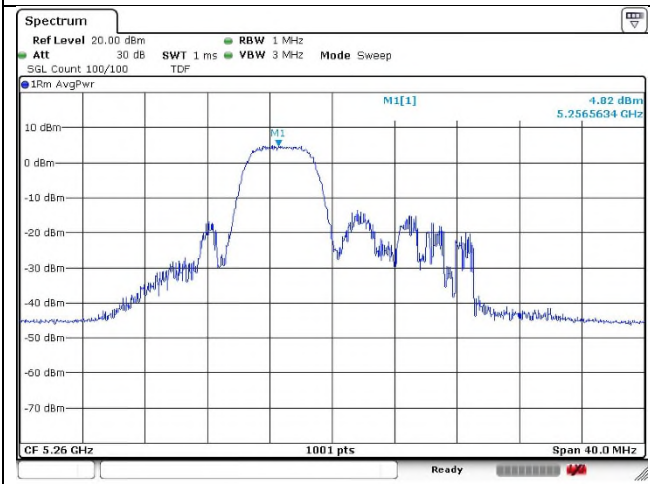
Ant.1

Ant.2

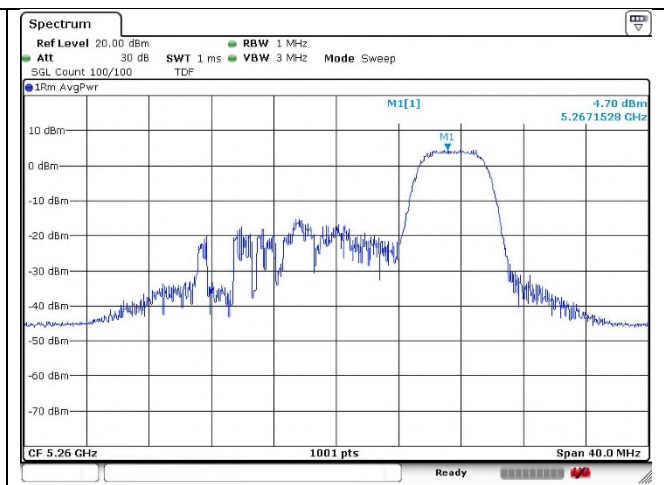
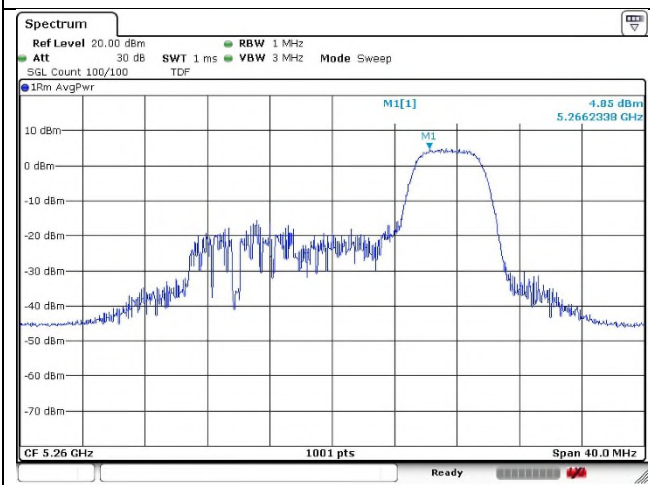
37 RU



38 RU



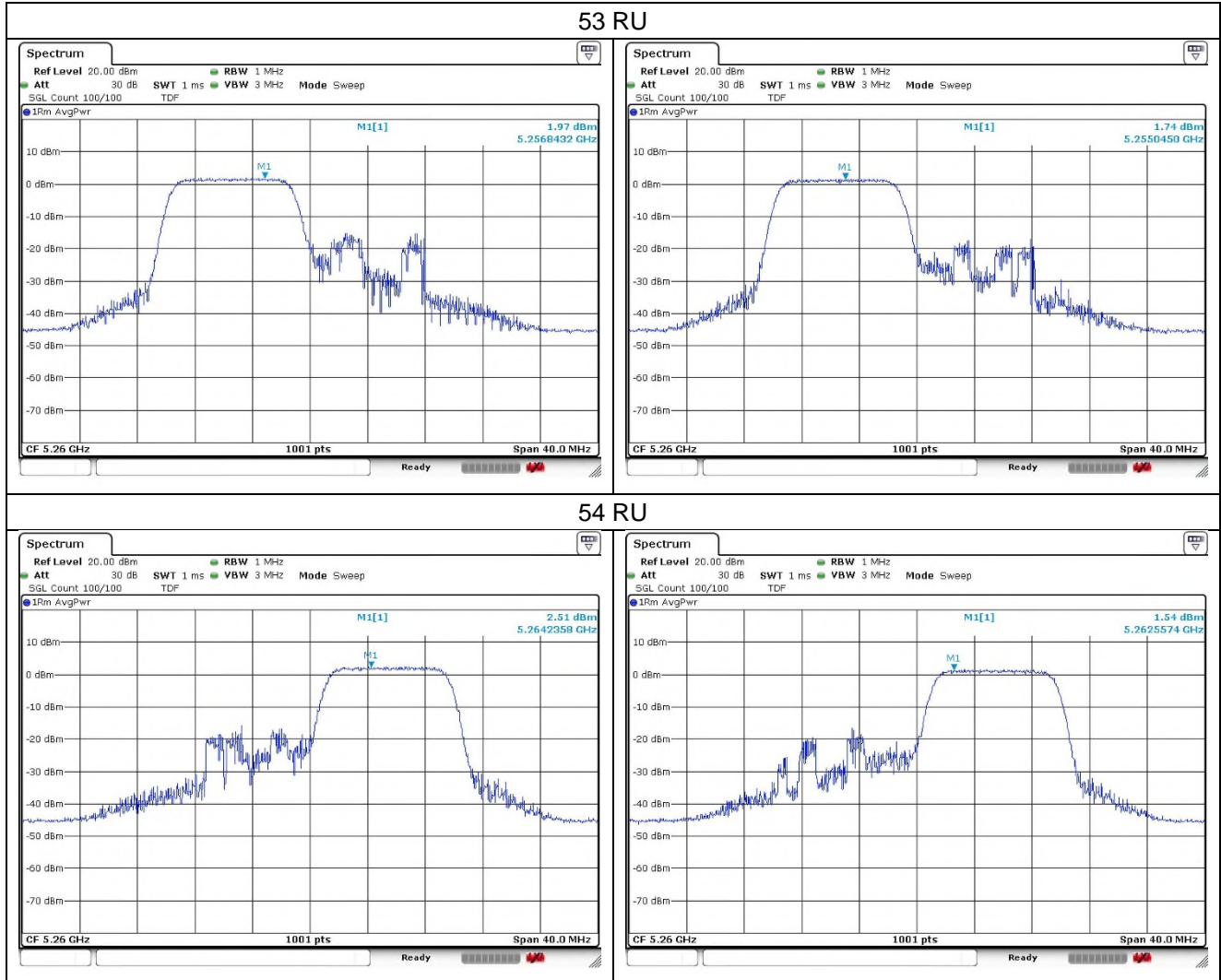
40 RU



802.11ax_HE20 Band 2A_Low channel_106T

Ant.1

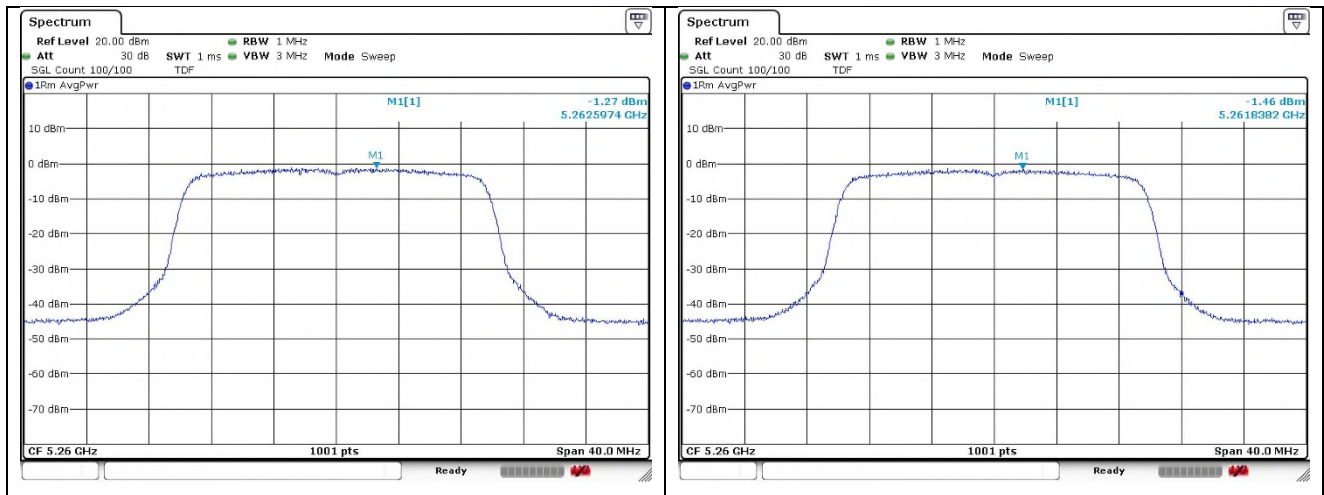
Ant.2



802.11ax_HE20 Band 2A_Low channel_SU

Ant.1

Ant.2

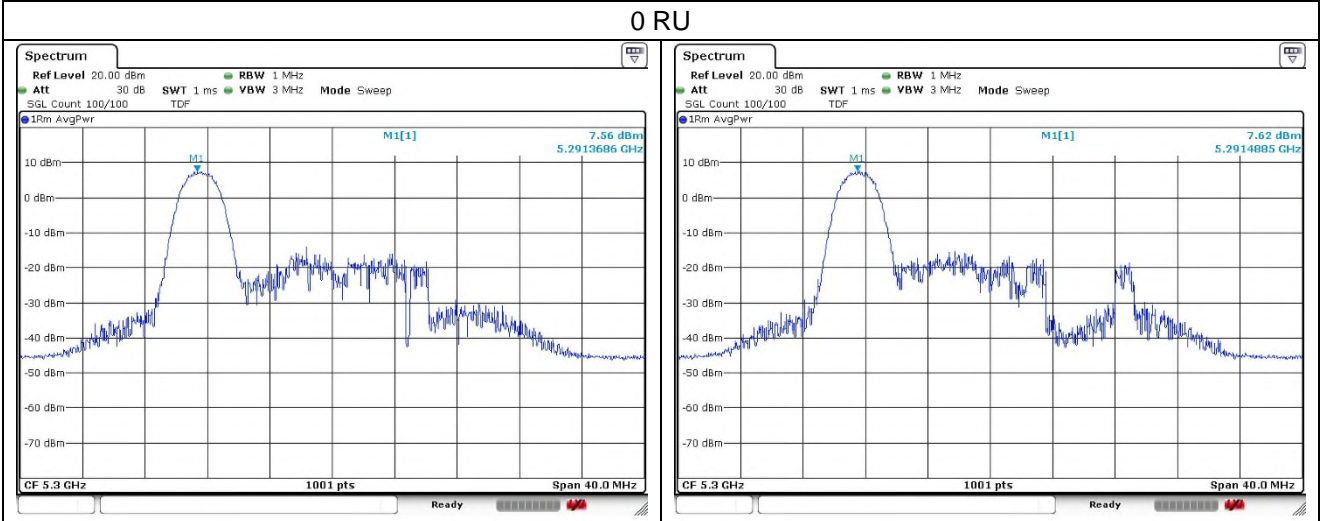


802.11ax_HE20 Band 2A_Middle channel_26T

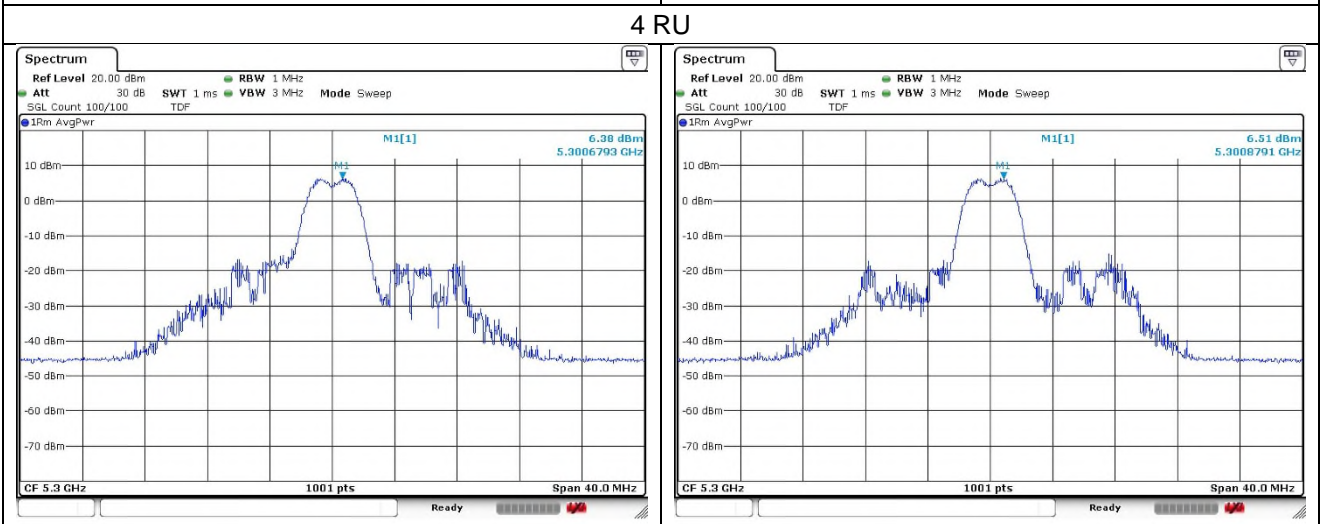
Ant.1

Ant.2

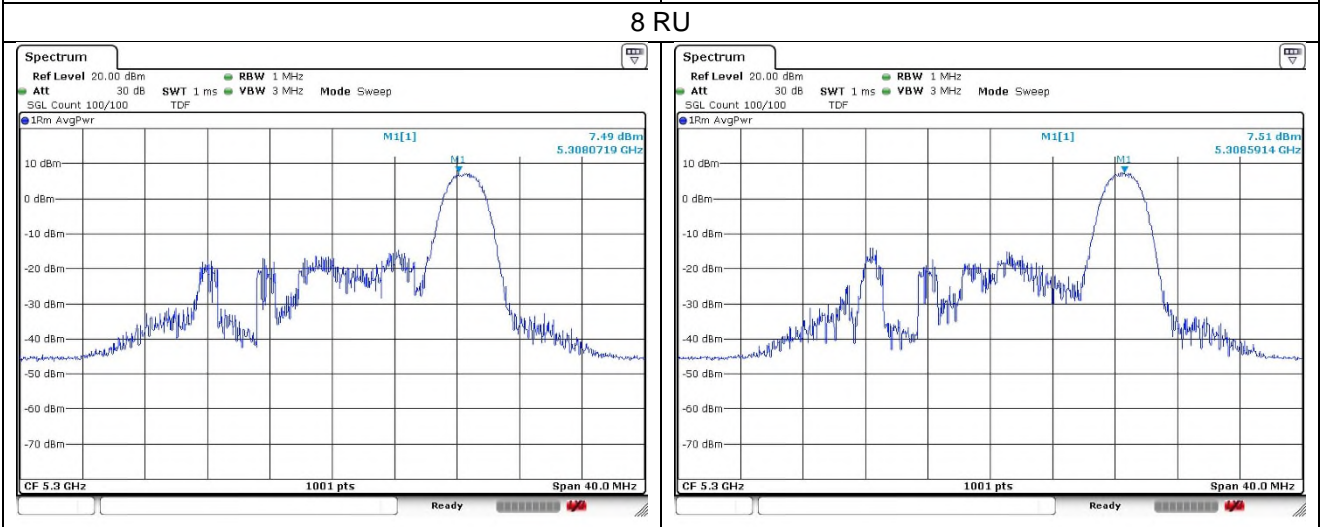
0 RU



4 RU



8 RU

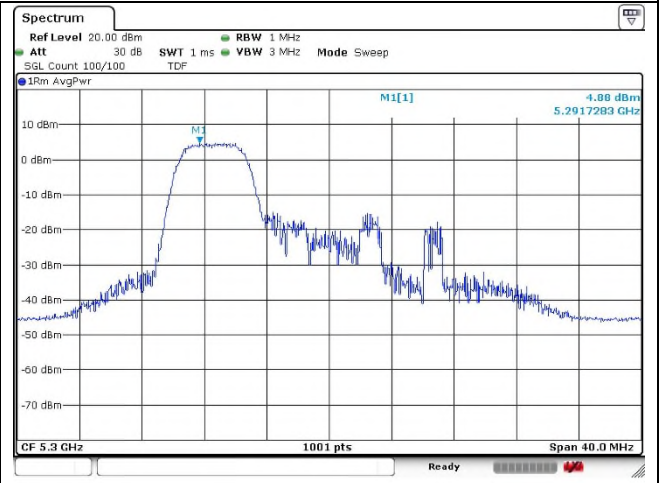
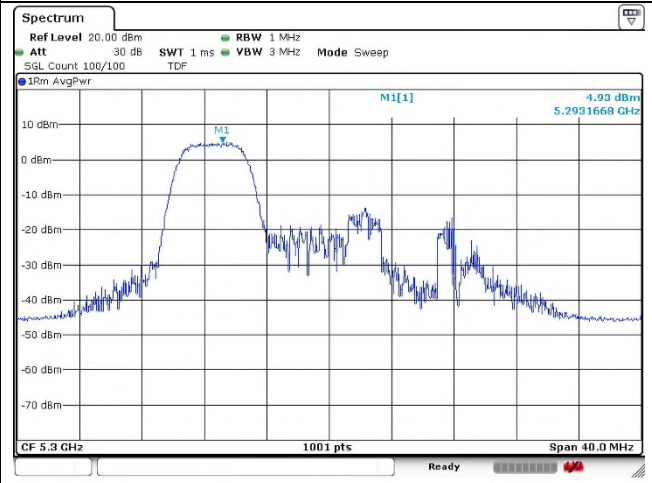


802.11ax_HE20 Band 2A_Middle channel_52T

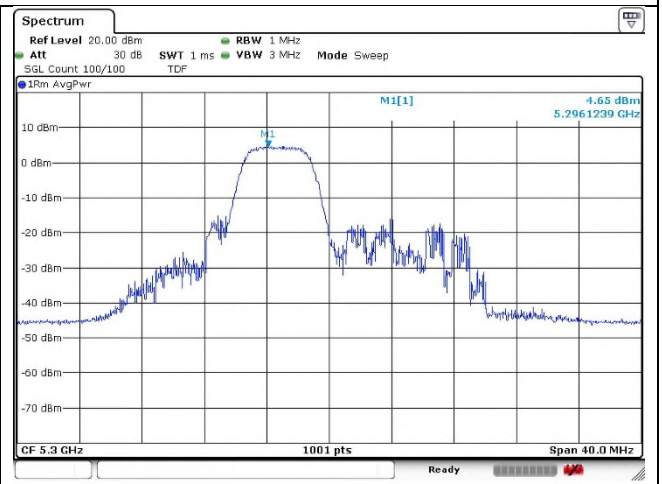
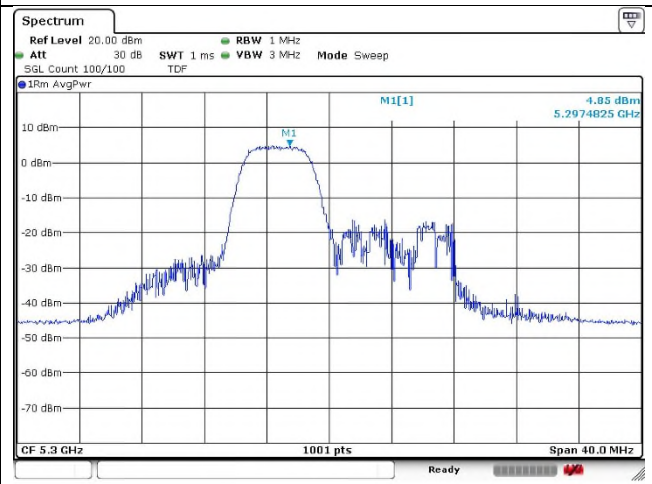
Ant.1

Ant.2

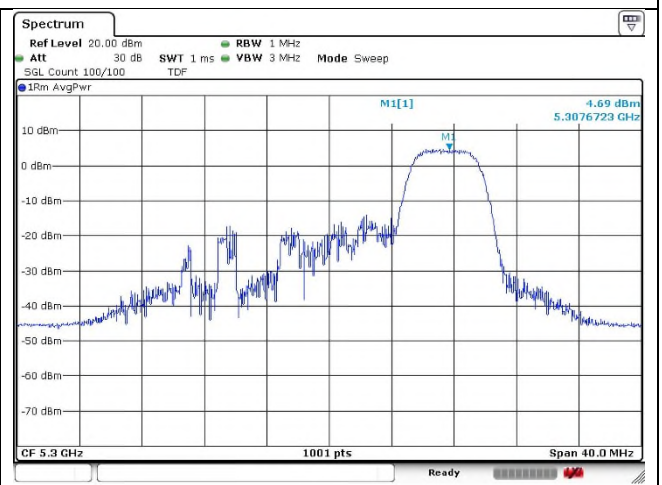
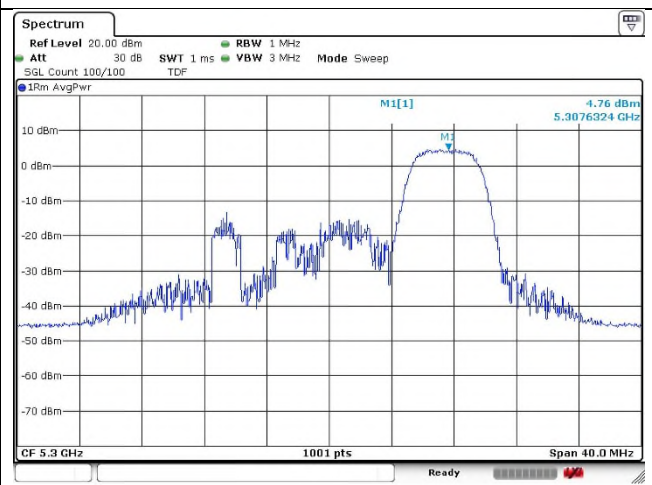
37 RU



38 RU



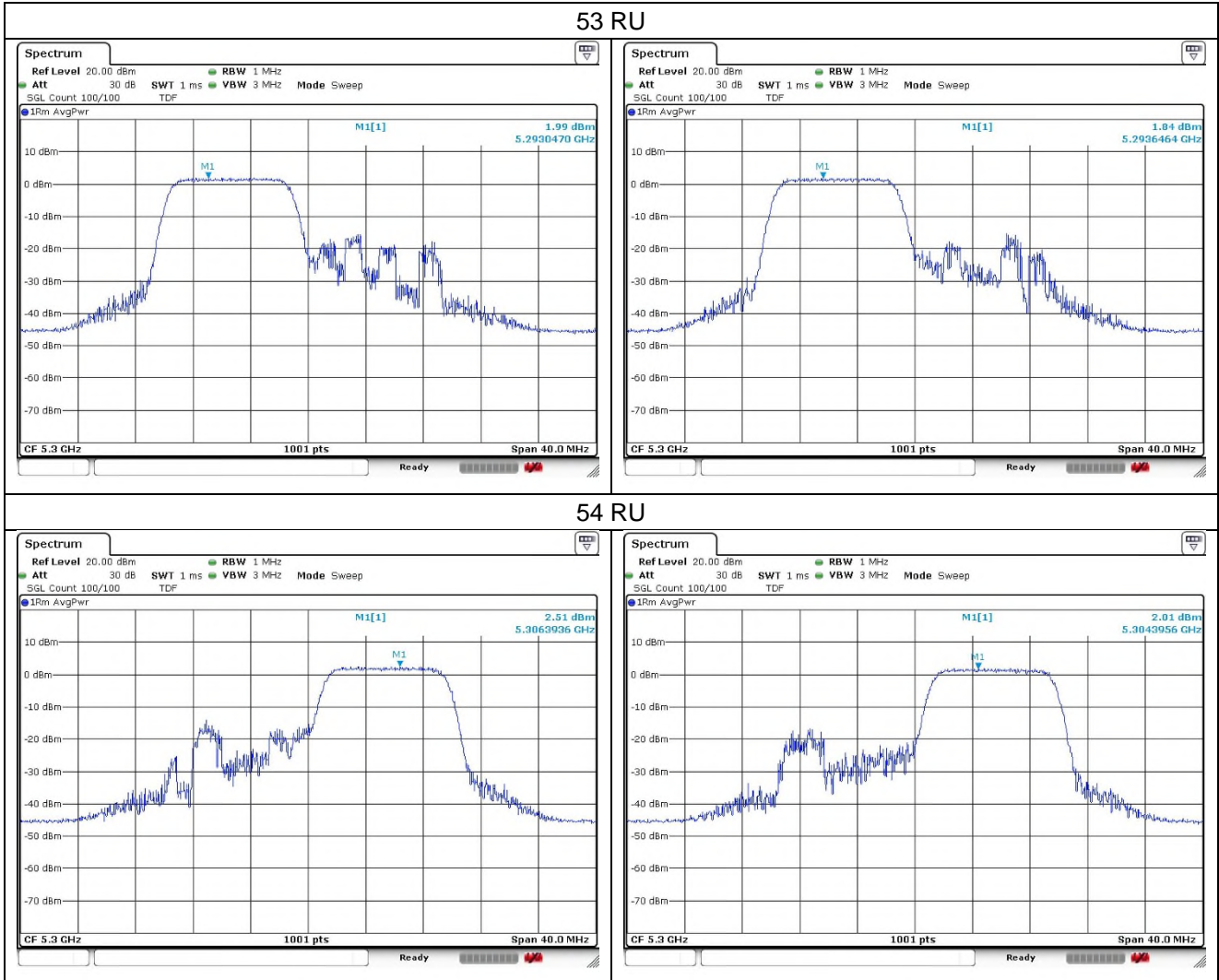
40 RU



802.11ax_HE20 Band 2A_Middle channel_106T

Ant.1

Ant.2



802.11ax_HE20 Band 2A_Middle channel_SU

Ant.1

Ant.2

