

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
802.11a Channel 64							
17919.7	57.4		-25.5	46.7	36.2V	74	16.6
17997.8	57.3		-25.5	46.7	36.1H	74	16.7
17991.2	57.2		-25.5	46.7	36V	74	16.8
17945	57		-25.5	46.7	35.8H	74	17
17996.7	57		-25.5	46.7	35.8V	74	17
5350.3	61.8		-16.9	34	44.7H	74	12.2
802.11a Channel 100							
17904.3	59.1		-25.5	46.7	37.9V	74	14.9
17968.1	57.8		-25.5	46.7	36.6V	74	16.2
17981.3	57.7		-25.5	46.7	36.5V	74	16.3
17997.8	57.6		-25.5	46.7	36.4H	74	16.4
17992.3	57.5		-25.5	46.7	36.3V	74	16.5
5459.9	57.5		-16.8	34.2	40.1H	74	16.5
802.11a Channel 120							
17991.2	57.3		-25.5	46.7	36.1H	74	16.7
17985.7	57.1		-25.5	46.7	35.9H	74	16.9
17979.1	56.8		-25.5	46.7	35.6V	74	17.2
17995.6	56.8		-25.5	46.7	35.6H	74	17.2
17993.4	56.7		-25.5	46.7	35.5H	74	17.3
17901	56.6		-25.5	46.7	35.4H	74	17.4
802.11a Channel 140							
17976.9	58		-25.5	46.7	36.8H	74	16
17984.6	57.2		-25.5	46.7	36V	74	16.8
17979.1	56.9		-25.5	46.7	35.7V	74	17.1
17992.3	56.9		-25.5	46.7	35.7V	74	17.1
17990.1	56.7		-25.5	46.7	35.5V	74	17.3
5725.4	66.4		-16.3	34.3	48.4H	74	7.6

**802.11n-HT20**

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
802.11n Channel 36							
17994.5	58.3	-25.5	46.7	37.1	V	74	15.7
17976.9	57.2	-25.5	46.7	36	H	74	16.8
17993.4	57.2	-25.5	46.7	36	H	74	16.8
17908.7	56.9	-25.5	46.7	35.7	H	74	17.1
17936.2	56.8	-25.5	46.7	35.6	V	74	17.2
5149.2	60.8	-17	33.7	44.1	V	74	13.2
802.11n Channel 40							
17989	57.9	-25.5	46.7	36.7	H	74	16.1
17997.8	57.3	-25.5	46.7	36.1	H	74	16.7
17992.3	57.1	-25.5	46.7	35.9	H	74	16.9
17978	56.9	-25.5	46.7	35.7	H	74	17.1
17869.1	56.8	-25.5	46.7	35.6	V	74	17.2
17954.9	56.7	-25.5	46.7	35.5	H	74	17.3
802.11n Channel 48							
17991.2	57.7	-25.5	46.7	36.5	H	74	16.3
17989	57	-25.5	46.7	35.8	H	74	17
17886.7	56.8	-25.5	46.7	35.6	V	74	17.2
17987.9	56.6	-25.5	46.7	35.4	H	74	17.4
17993.4	56.6	-25.5	46.7	35.4	V	74	17.4
17995.6	56.6	-25.5	46.7	35.4	V	74	17.4
802.11n Channel 52							
17981.3	57.4	-25.5	46.7	36.2	H	74	16.6
17990.1	56.9	-25.5	46.7	35.7	V	74	17.1
17980.2	56.6	-25.5	46.7	35.4	H	74	17.4
17984.6	56.6	-25.5	46.7	35.4	V	74	17.4
17991.2	56.6	-25.5	46.7	35.4	H	74	17.4
17979.1	56.5	-25.5	46.7	35.3	H	74	17.5
802.11n Channel 56							
17975.8	57.8	-25.5	46.7	36.6	H	74	16.2
17997.8	57.7	-25.5	46.7	36.5	H	74	16.3
17996.7	57.6	-25.5	46.7	36.4	H	74	16.4
17991.2	57.1	-25.5	46.7	35.9	H	74	16.9
17986.8	57	-25.5	46.7	35.8	H	74	17
17894.4	56.5	-25.5	46.7	35.3	H	74	17.5

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
802.11n Channel 64							
17984.6	58.3	-25.5	46.7	37.1	H	74	15.7
17997.8	57.2	-25.5	46.7	36	V	74	16.8
17992.3	57.1	-25.5	46.7	35.9	V	74	16.9
17996.7	56.8	-25.5	46.7	35.6	H	74	17.2
17964.8	56.7	-25.5	46.7	35.5	V	74	17.3
5354.3	62.5	-16.9	34	45.4	H	74	11.5
802.11n Channel 100							
17997.8	57.4	-25.5	46.7	36.2	V	74	16.6
17942.8	57.2	-25.5	46.7	36	H	74	16.8
17980.2	56.9	-25.5	46.7	35.7	V	74	17.1
17991.2	56.9	-25.5	46.7	35.7	H	74	17.1
17981.3	56.8	-25.5	46.7	35.6	V	74	17.2
5452.3	52.9	-16.8	34.2	35.5	H	74	21.1
802.11n Channel 120							
17899.9	57.3	-25.5	46.7	36.1	V	74	16.7
17985.7	57	-25.5	46.7	35.8	V	74	17
17991.2	56.8	-25.5	46.7	35.6	V	74	17.2
17994.5	56.8	-25.5	46.7	35.6	H	74	17.2
17978	56.6	-25.5	46.7	35.4	V	74	17.4
17890	56.5	-25.5	46.7	35.3	H	74	17.5
802.11n Channel 140							
17975.8	57.6	-25.5	46.7	36.4	V	74	16.4
17986.8	56.9	-25.5	46.7	35.7	V	74	17.1
17997.8	56.7	-25.5	46.7	35.5	V	74	17.3
17853.7	56.6	-25.5	46.7	35.4	V	74	17.4
17905.4	56.6	-25.5	46.7	35.4	H	74	17.4
5725	67.6	-16.3	34.3	49.6	H	74	6.4

**802.11ac-HT20**

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
802.11ac Channel 36							
17875.7	57.1	-25.5	46.7	35.9	V	74	16.9
17993.4	56.8	-25.5	46.7	35.6	H	74	17.2
17985.7	56.7	-25.5	46.7	35.5	V	74	17.3
17991.2	56.7	-25.5	46.7	35.5	H	74	17.3
17984.6	56.6	-25.5	46.7	35.4	H	74	17.4
5149.4	62.9	-17	33.7	46.2	H	74	11.1
802.11ac Channel 40							
17990.1	57.5	-25.5	46.7	36.3	H	74	16.5
17983.5	56.8	-25.5	46.7	35.6	H	74	17.2
17993.4	56.7	-25.5	46.7	35.5	H	74	17.3
17959.3	56.6	-25.5	46.7	35.4	V	74	17.4
17891.1	56.5	-25.5	46.7	35.3	V	74	17.5
17894.4	56.5	-25.5	46.7	35.3	H	74	17.5
802.11ac Channel 48							
17995.6	58.4	-25.5	46.7	37.2	H	74	15.6
17978	57.2	-25.5	46.7	36	H	74	16.8
17964.8	57.1	-25.5	46.7	35.9	H	74	16.9
17968.1	57.1	-25.5	46.7	35.9	V	74	16.9
17983.5	56.7	-25.5	46.7	35.5	H	74	17.3
17987.9	56.7	-25.5	46.7	35.5	V	74	17.3
802.11ac Channel 52							
17884.5	57.7	-25.5	46.7	36.5	H	74	16.3
17994.5	57.5	-25.5	46.7	36.3	H	74	16.5
17869.1	57	-25.5	46.7	35.8	H	74	17
17967	56.8	-25.5	46.7	35.6	V	74	17.2
17982.4	56.6	-25.5	46.7	35.4	H	74	17.4
17987.9	56.6	-25.5	46.7	35.4	V	74	17.4
802.11ac Channel 56							
17898.8	57.7	-25.5	46.7	36.5	H	74	16.3
17995.6	57.4	-25.5	46.7	36.2	V	74	16.6
17989	57.3	-25.5	46.7	36.1	V	74	16.7
17982.4	57.1	-25.5	46.7	35.9	V	74	16.9
17993.4	56.9	-25.5	46.7	35.7	V	74	17.1
17884.5	56.8	-25.5	46.7	35.6	V	74	17.2

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
802.11ac Channel 64							
17992.3	57.5	-25.5	46.7	36.3	V	74	16.5
17975.8	56.8	-25.5	46.7	35.6	H	74	17.2
17995.6	56.8	-25.5	46.7	35.6	H	74	17.2
17982.4	56.7	-25.5	46.7	35.5	V	74	17.3
17961.5	56.5	-25.5	46.7	35.3	H	74	17.5
5351.4	57.9	-16.9	34	40.8	H	74	16.1
802.11ac Channel 100							
17983.5	57.4	-25.5	46.7	36.2	H	74	16.6
17995.6	57.1	-25.5	46.7	35.9	H	74	16.9
17904.3	57	-25.5	46.7	35.8	H	74	17
17981.3	56.7	-25.5	46.7	35.5	V	74	17.3
17797.6	56.6	-25.5	46.7	35.4	V	74	17.4
5458.2	57.6	-16.8	34.2	40.2	H	74	16.4
802.11ac Channel 120							
17969.2	57.1	-25.5	46.7	35.9	H	74	16.9
17989	57	-25.5	46.7	35.8	H	74	17
17981.3	56.8	-25.5	46.7	35.6	V	74	17.2
17983.5	56.8	-25.5	46.7	35.6	V	74	17.2
17991.2	56.8	-25.5	46.7	35.6	V	74	17.2
17984.6	56.7	-25.5	46.7	35.5	V	74	17.3
802.11ac Channel 140							
17885.6	57.3	-25.5	46.7	36.1	V	74	16.7
17973.6	57.2	-25.5	46.7	36	V	74	16.8
17976.9	57.2	-25.5	46.7	36	V	74	16.8
17989	56.9	-25.5	46.7	35.7	H	74	17.1
17979.1	56.7	-25.5	46.7	35.5	V	74	17.3
5725.1	67.7	-16.3	34.3	49.7	H	74	6.3

**802.11n-HT40**

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
<b>802.11n 40MHz Channel38</b>							
17990.1	57.3	-25.5	46.7	36.1	V	74	16.7
17986.8	57	-25.5	46.7	35.8	V	74	17
17995.6	56.9	-25.5	46.7	35.7	V	74	17.1
17994.5	56.7	-25.5	46.7	35.5	V	74	17.3
17982.4	56.6	-25.5	46.7	35.4	V	74	17.4
5147.3	67.8	-17	33.7	51.1	H	74	6.2
<b>802.11n 40MHz Channel46</b>							
17987.9	57.9	-25.5	46.7	36.7	V	74	16.1
17989	57.1	-25.5	46.7	35.9	H	74	16.9
17905.4	56.9	-25.5	46.7	35.7	V	74	17.1
17877.9	56.8	-25.5	46.7	35.6	V	74	17.2
17973.6	56.7	-25.5	46.7	35.5	H	74	17.3
17981.3	56.7	-25.5	46.7	35.5	H	74	17.3
<b>802.11n 40MHz Channel54</b>							
17992.3	58.3	-25.5	46.7	37.1	V	74	15.7
17993.4	57.9	-25.5	46.7	36.7	H	74	16.1
17985.7	56.5	-25.5	46.7	35.3	H	74	17.5
17991.2	56.5	-25.5	46.7	35.3	V	74	17.5
17976.9	56.4	-25.5	46.7	35.2	V	74	17.6
17975.8	56.3	-25.5	46.7	35.1	V	74	17.7
<b>802.11n 40MHz Channel62</b>							
17992.3	57.6	-25.5	46.7	36.4	V	74	16.4
17996.7	57.4	-25.5	46.7	36.2	H	74	16.6
17958.2	56.9	-25.5	46.7	35.7	H	74	17.1
17984.6	56.9	-25.5	46.7	35.7	V	74	17.1
17930.7	56.6	-25.5	46.7	35.4	H	74	17.4
5350.3	60.3	-16.9	34	43.2	V	74	13.7
<b>802.11n 40MHz Channel102</b>							
17993.4	57.2	-25.5	46.7	36	V	74	16.8
17990.1	56.6	-25.5	46.7	35.4	H	74	17.4
17963.7	56.4	-25.5	46.7	35.2	V	74	17.6
17979.1	56.4	-25.5	46.7	35.2	H	74	17.6
17985.7	56.3	-25.5	46.7	35.1	V	74	17.7
5457.4	61.4	-16.8	34.2	44	H	74	12.6

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
802.11n 40MHz Channel118							
17995.6	57.2	-25.5	46.7	36	H	74	16.8
17991.2	57	-25.5	46.7	35.8	V	74	17
17994.5	56.7	-25.5	46.7	35.5	V	74	17.3
17909.8	56.6	-25.5	46.7	35.4	V	74	17.4
17986.8	56.6	-25.5	46.7	35.4	H	74	17.4
17989	56.5	-25.5	46.7	35.3	H	74	17.5
802.11n 40MHz Channel134							
17989	57.3	-25.5	46.7	36.1	V	74	16.7
17978	57.1	-25.5	46.7	35.9	H	74	16.9
17984.6	57.1	-25.5	46.7	35.9	V	74	16.9
17892.2	56.8	-25.5	46.7	35.6	V	74	17.2
17982.4	56.8	-25.5	46.7	35.6	H	74	17.2
5727.6	67	-16.3	34.3	49	H	74	7

#### 802.11ac-HT40

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
802.11ac 40M Channel:CH38							
17991.2	57.7	-25.5	46.7	36.5	H	74	16.3
17976.9	57.5	-25.5	46.7	36.3	H	74	16.5
17983.5	57.3	-25.5	46.7	36.1	H	74	16.7
17996.7	57.2	-25.5	46.7	36	V	74	16.8
17993.4	56.9	-25.5	46.7	35.7	V	74	17.1
5147.7	66.8	-17	33.7	50.1	H	74	7.2
802.11ac 40M Channel:CH46							
17992.3	57.6	-25.5	46.7	36.4	V	74	16.4
17996.7	57.5	-25.5	46.7	36.3	H	74	16.5
17979.1	57.3	-25.5	46.7	36.1	V	74	16.7
17994.5	57.2	-25.5	46.7	36	H	74	16.8
17899.9	56.9	-25.5	46.7	35.7	H	74	17.1
17954.9	56.9	-25.5	46.7	35.7	H	74	17.1
802.11ac 40M Channel:CH54							
17905.4	56.8	-25.5	46.7	35.6	V	74	17.2
17979.1	56.8	-25.5	46.7	35.6	V	74	17.2
17885.6	56.7	-25.5	46.7	35.5	V	74	17.3

17995.6	56.7	-25.5	46.7	35.5	V	74	17.3
17872.4	56.6	-25.5	46.7	35.4	H	74	17.4
17976.9	56.5	-25.5	46.7	35.3	V	74	17.5
802.11ac 40M Channel:CH62							
17995.6	57.3	-25.5	46.7	36.1	H	74	16.7
17873.5	57.1	-25.5	46.7	35.9	V	74	16.9
17989	56.9	-25.5	46.7	35.7	V	74	17.1
17980.2	56.8	-25.5	46.7	35.6	H	74	17.2
17884.5	56.6	-25.5	46.7	35.4	H	74	17.4
5354.1	60.2	-16.9	34	43.1	H	74	13.8
802.11ac 40M Channel:CH102							
17962.6	57	-25.5	46.7	35.8	H	74	17
17991.2	56.9	-25.5	46.7	35.7	V	75	18.1
17995.6	56.9	-25.5	46.7	35.7	H	76	19.1
17887.8	56.8	-25.5	46.7	35.6	H	77	20.2
17880.1	56.6	-25.5	46.7	35.4	H	78	21.4
5459.6	58.7	-16.8	34.2	41.3	H	79	20.3

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
802.11ac 40M Channel:CH118							
17995.6	57.3	-25.5	46.7	36.1	H	74	16.7
17910.9	57	-25.5	46.7	35.8	H	74	17
17987.9	56.9	-25.5	46.7	35.7	V	74	17.1
17997.8	56.8	-25.5	46.7	35.6	H	74	17.2
17883.4	56.7	-25.5	46.7	35.5	V	74	17.3
17981.3	56.5	-25.5	46.7	35.3	V	74	17.5
802.11ac 40M Channel:CH134							
17995.6	57.6	-25.5	46.7	36.4	V	74	16.4
17997.8	57.4	-25.5	46.7	36.2	V	74	16.6
17994.5	57.1	-25.5	46.7	35.9	H	74	16.9
17896.6	57	-25.5	46.7	35.8	H	74	17
17991.2	56.9	-25.5	46.7	35.7	V	74	17.1
5732.7	59.8	-16.3	34.3	41.8	H	74	14.2



**802.11ac-HT80**

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
802.11ac 80M Channel:CH42							
17960.4	57.2	-25.5	46.7	36	V	74	16.8
17991.2	56.5	-25.5	46.7	35.3	V	74	17.5
17915.3	56.3	-25.5	46.7	35.1	V	74	17.7
17996.7	56.3	-25.5	46.7	35.1	H	74	17.7
17876.8	56.1	-25.5	46.7	34.9	H	74	17.9
5144.3	66.4	-17	33.7	49.7	V	74	7.6
802.11ac 80M Channel:CH58							
17973.6	57.5	-25.5	46.7	36.3	H	74	16.5
17984.6	57.2	-25.5	46.7	36	H	74	16.8
17993.4	57.2	-25.5	46.7	36	V	74	16.8
17995.6	57.2	-25.5	46.7	36	V	74	16.8
17991.2	56.9	-25.5	46.7	35.7	H	74	17.1
5350.3	64.2	-16.9	34	47.1	H	74	9.8
802.11ac 80M Channel:CH106							
17995.6	57	-25.5	46.7	35.8	V	74	17
17973.6	56.9	-25.5	46.7	35.7	V	74	17.1
17978	56.4	-25.5	46.7	35.2	H	74	17.6
17983.5	56.3	-25.5	46.7	35.1	V	74	17.7
17990.1	56.3	-25.5	46.7	35.1	V	74	17.7
5459	63.1	-16.8	34.2	45.7	V	74	10.9

**Average**  
**802.11a**

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
<b>802.11a Channel:CH36</b>							
17983.5	46	-25.5	46.7	24.8	H	54	8
17995.6	45.9	-25.5	46.7	24.7	H	54	8.1
17997.8	45.9	-25.5	46.7	24.7	V	54	8.1
17992.3	45.8	-25.5	46.7	24.6	V	54	8.2
17994.5	45.8	-25.5	46.7	24.6	H	54	8.2
5149.9	50.8	-17	33.7	34.1	V	54	3.2
<b>802.11a Channel:CH40</b>							
17985.7	45.8	-25.5	46.7	24.6	V	54	8.2
17992.3	45.8	-25.5	46.7	24.6	V	54	8.2
17989	45.7	-25.5	46.7	24.5	V	54	8.3
17994.5	45.7	-25.5	46.7	24.5	V	54	8.3
17997.8	45.7	-25.5	46.7	24.5	H	54	8.3
17991.2	45.6	-25.5	46.7	24.4	H	54	8.4
<b>802.11a Channel:CH48</b>							
17982.4	46	-25.5	46.7	24.8	V	54	8
17996.7	45.9	-25.5	46.7	24.7	H	54	8.1
17992.3	45.7	-25.5	46.7	24.5	H	54	8.3
17993.4	45.6	-25.5	46.7	24.4	H	54	8.4
17994.5	45.5	-25.5	46.7	24.3	H	54	8.5
17997.8	45.5	-25.5	46.7	24.3	V	54	8.5
<b>802.11a Channel:CH52</b>							
17987.9	45.8	-25.5	46.7	24.6	V	54	8.2
17994.5	45.8	-25.5	46.7	24.6	H	54	8.2
17985.7	45.7	-25.5	46.7	24.5	H	54	8.3
17997.8	45.6	-25.5	46.7	24.4	V	54	8.4
17982.4	45.5	-25.5	46.7	24.3	V	54	8.5
17995.6	45.5	-25.5	46.7	24.3	H	54	8.5
<b>802.11a Channel:CH56</b>							
17993.4	45.7	-25.5	46.7	24.5	V	54	8.3
17997.8	45.7	-25.5	46.7	24.5	H	54	8.3
17992.3	45.6	-25.5	46.7	24.4	H	54	8.4
17996.7	45.6	-25.5	46.7	24.4	H	54	8.4
17987.9	45.5	-25.5	46.7	24.3	H	54	8.5
17995.6	45.5	-25.5	46.7	24.3	V	54	8.5

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
				(dBuV/m)			
802.11a Channel:CH64							
17989	45.9	-25.5	46.7	24.7	V	54	8.1
17997.8	45.8	-25.5	46.7	24.6	H	54	8.2
17991.2	45.7	-25.5	46.7	24.5	V	54	8.3
17993.4	45.6	-25.5	46.7	24.4	H	54	8.4
17996.7	45.6	-25.5	46.7	24.4	V	54	8.4
5350	49.3	-16.9	34	32.2	H	54	4.7
802.11a Channel:CH100							
17994.5	46.1	-25.5	46.7	24.9	V	54	7.9
17987.9	45.9	-25.5	46.7	24.7	H	54	8.1
17990.1	45.9	-25.5	46.7	24.7	V	54	8.1
17991.2	45.8	-25.5	46.7	24.6	V	54	8.2
17995.6	45.8	-25.5	46.7	24.6	V	54	8.2
17993.400	45.7	-25.5	43.4	27.802	H	54	8.3
802.11a Channel:CH120							
17994.5	45.9	-25.5	46.7	24.7	H	54	8.1
17995.6	45.8	-25.5	46.7	24.6	H	54	8.2
17996.7	45.7	-25.5	46.7	24.5	H	54	8.3
17983.5	45.6	-25.5	46.7	24.4	V	54	8.4
17986.8	45.6	-25.5	46.7	24.4	V	54	8.4
17989	45.6	-25.5	46.7	24.4	V	54	8.4
802.11a Channel:CH140							
17991.2	45.7	-25.5	46.7	24.5	V	54	8.3
17992.3	45.7	-25.5	46.7	24.5	V	54	8.3
17993.4	45.7	-25.5	46.7	24.5	H	54	8.3
17983.5	45.6	-25.5	46.7	24.4	V	54	8.4
17984.6	45.6	-25.5	46.7	24.4	V	54	8.4
17995.600	45.6	-25.5	43.4	27.702	H	54	8.4

**802.11n-HT20**

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
802.11n Channel:CH36							
17989	45.8	-25.5	46.7	24.6	V	54	8.2
17993.4	45.8	-25.5	46.7	24.6	H	54	8.2
17994.5	45.7	-25.5	46.7	24.5	V	54	8.3
17996.7	45.7	-25.5	46.7	24.5	H	54	8.3
17992.3	45.6	-25.5	46.7	24.4	V	54	8.4
5149.8	47.5	-17	33.7	30.8	V	54	6.5
802.11n Channel:CH40							
17989	45.8	-25.5	46.7	24.6	H	54	8.2
17993.4	45.8	-25.5	46.7	24.6	V	54	8.2
17987.9	45.7	-25.5	46.7	24.5	V	54	8.3
17984.6	45.6	-25.5	46.7	24.4	H	54	8.4
17991.2	45.6	-25.5	46.7	24.4	H	54	8.4
17992.3	45.6	-25.5	46.7	24.4	H	54	8.4
802.11n Channel:CH48							
17996.7	45.8	-25.5	46.7	24.6	H	54	8.2
17997.8	45.7	-25.5	46.7	24.5	H	54	8.3
17995.6	45.6	-25.5	46.7	24.4	V	54	8.4
17980.2	45.5	-25.5	46.7	24.3	V	54	8.5
17987.9	45.5	-25.5	46.7	24.3	H	54	8.5
17989	45.5	-25.5	46.7	24.3	H	54	8.5
802.11n Channel:CH52							
17991.2	45.8	-25.5	46.7	24.6	H	54	8.2
17984.6	45.7	-25.5	46.7	24.5	V	54	8.3
17996.7	45.7	-25.5	46.7	24.5	V	54	8.3
17992.3	45.6	-25.5	46.7	24.4	H	54	8.4
17985.7	45.5	-25.5	46.7	24.3	H	54	8.5
17986.8	45.5	-25.5	46.7	24.3	H	54	8.5
802.11n Channel:CH56							
17993.4	45.8	-25.5	46.7	24.6	H	54	8.2
17991.2	45.6	-25.5	46.7	24.4	H	54	8.4
17992.3	45.6	-25.5	46.7	24.4	H	54	8.4
17996.7	45.6	-25.5	46.7	24.4	H	54	8.4
17986.8	45.5	-25.5	46.7	24.3	H	54	8.5
17989	45.5	-25.5	46.7	24.3	H	54	8.5

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
802.11n Channel:CH64							
17993.4	45.9	-25.5	46.7	24.7	H	54	8.1
17996.7	45.9	-25.5	46.7	24.7	H	54	8.1
17987.9	45.7	-25.5	46.7	24.5	V	54	8.3
17983.5	45.5	-25.5	46.7	24.3	H	54	8.5
17986.8	45.5	-25.5	46.7	24.3	V	54	8.5
5350.1	48.7	-16.9	34	31.6	H	54	5.3
802.11n Channel:CH100							
17997.8	46	-25.5	46.7	24.8	V	54	8
17987.9	45.9	-25.5	46.7	24.7	H	54	8.1
17982.4	45.6	-25.5	46.7	24.4	V	54	8.4
17984.6	45.6	-25.5	46.7	24.4	H	54	8.4
17993.4	45.6	-25.5	46.7	24.4	V	54	8.4
17991.200	45.5	-25.5	43.4	27.602	H	54	8.5
802.11n Channel:CH120							
17997.8	45.8	-25.5	46.7	24.6	H	54	8.2
17986.8	45.5	-25.5	46.7	24.3	V	54	8.5
17994.5	45.5	-25.5	46.7	24.3	H	54	8.5
17995.6	45.5	-25.5	46.7	24.3	H	54	8.5
17991.2	45.4	-25.5	46.7	24.2	V	54	8.6
17996.7	45.4	-25.5	46.7	24.2	H	54	8.6
802.11n Channel:CH140							
17991.2	45.8	-25.5	46.7	24.6	H	54	8.2
17997.8	45.8	-25.5	46.7	24.6	V	54	8.2
17987.9	45.7	-25.5	46.7	24.5	V	54	8.3
17995.6	45.7	-25.5	46.7	24.5	V	54	8.3
17990.1	45.6	-25.5	46.7	24.4	H	54	8.4
17990.100	45.6	-25.5	43.4	27.702	H	54	8.4

**802.11n-HT40**

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
<b>802.11n 40MHz Channel38</b>							
17997.8	45.8	-25.5	46.7	24.6	H	54	8.2
17991.2	45.7	-25.5	46.7	24.5	H	54	8.3
17996.7	45.7	-25.5	46.7	24.5	V	54	8.3
17993.4	45.6	-25.5	46.7	24.4	V	54	8.4
17990.1	45.5	-25.5	46.7	24.3	V	54	8.5
5149.8	53.7	-17	33.7	37	H	54	0.3
<b>802.11n 40MHz Channel46</b>							
17996.7	46.1	-25.5	46.7	24.9	V	54	7.9
17991.2	45.7	-25.5	46.7	24.5	V	54	8.3
17995.6	45.7	-25.5	46.7	24.5	V	54	8.3
17985.7	45.6	-25.5	46.7	24.4	H	54	8.4
17989	45.6	-25.5	46.7	24.4	H	54	8.4
17993.4	45.6	-25.5	46.7	24.4	H	54	8.4
<b>802.11n 40MHz Channel54</b>							
17987.9	45.8	-25.5	46.7	24.6	H	54	8.2
17986.8	45.6	-25.5	46.7	24.4	V	54	8.4
17990.1	45.6	-25.5	46.7	24.4	H	54	8.4
17991.2	45.6	-25.5	46.7	24.4	V	54	8.4
17995.6	45.6	-25.5	46.7	24.4	V	54	8.4
17997.8	45.6	-25.5	46.7	24.4	H	54	8.4
<b>802.11n 40MHz Channel62</b>							
17997.8	45.8	-25.5	46.7	24.6	V	54	8.2
17990.1	45.7	-25.5	46.7	24.5	V	54	8.3
17995.6	45.6	-25.5	46.7	24.4	H	54	8.4
17982.4	45.5	-25.5	46.7	24.3	H	54	8.5
17984.6	45.5	-25.5	46.7	24.3	V	54	8.5
5350.1	47.5	-16.9	34	30.4	V	54	6.5
<b>802.11n 40MHz Channel102</b>							
17993.4	45.5	-25.5	46.7	24.3	V	54	8.5
17986.8	45.3	-25.5	46.7	24.1	H	54	8.7
17994.5	45.3	-25.5	46.7	24.1	V	54	8.7
17995.6	45.3	-25.5	46.7	24.1	V	54	8.7
17982.4	45.2	-25.5	46.7	24	H	54	8.8
17982.400	45.2	-25.5	43.4	27.302	H	54	8.8

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
802.11n 40MHz Channel108							
17985.7	45.6	-25.5	46.7	24.4	H	54	8.4
17994.5	45.6	-25.5	46.7	24.4	V	54	8.4
17995.6	45.5	-25.5	46.7	24.3	H	54	8.5
17996.7	45.5	-25.5	46.7	24.3	V	54	8.5
17997.8	45.5	-25.5	46.7	24.3	V	54	8.5
17990.1	45.4	-25.5	46.7	24.2	V	54	8.6
802.11n 40MHz Channel134							
17997.8	45.5	-25.5	46.7	24.3	V	54	8.5
17986.8	45.4	-25.5	46.7	24.2	V	54	8.6
17984.6	45.3	-25.5	46.7	24.1	V	54	8.7
17996.7	45.3	-25.5	46.7	24.1	H	54	8.7
17982.4	45.2	-25.5	46.7	24	H	54	8.8
17990.100	45.2	-25.5	43.4	27.302	H	54	8.8

### 802.11ac-VHT20

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Magin (dBuV/m)
802.11ac Channel 36							
17992.3	45.7	-25.5	46.7	24.5	V	54	8.3
17993.4	45.7	-25.5	46.7	24.5	H	54	8.3
17996.7	45.7	-25.5	46.7	24.5	H	54	8.3
17987.9	45.6	-25.5	46.7	24.4	H	54	8.4
17994.5	45.6	-25.5	46.7	24.4	V	54	8.4
5149.7	48.6	-17	33.7	31.9	H	54	5.4
802.11ac Channel 40							
17997.8	45.9	-25.5	46.7	24.7	H	54	8.1
17995.6	45.8	-25.5	46.7	24.6	V	54	8.2
17987.9	45.6	-25.5	46.7	24.4	V	54	8.4
17992.3	45.6	-25.5	46.7	24.4	V	54	8.4
17996.7	45.6	-25.5	46.7	24.4	V	54	8.4
17989	45.5	-25.5	46.7	24.3	V	54	8.5
802.11ac Channel 48							
17986.8	45.8	-25.5	46.7	24.6	H	54	8.2
17993.4	45.7	-25.5	46.7	24.5	V	54	8.3
17989	45.6	-25.5	46.7	24.4	H	54	8.4

17990.1	45.6	-25.5	46.7	24.4	H	54	8.4
17991.2	45.6	-25.5	46.7	24.4	H	54	8.4
17994.5	45.6	-25.5	46.7	24.4	H	54	8.4
802.11ac Channel 52							
17996.7	45.8	-25.5	46.7	24.6	V	54	8.2
17997.8	45.8	-25.5	46.7	24.6	V	54	8.2
17991.2	45.6	-25.5	46.7	24.4	V	54	8.4
17987.9	45.5	-25.5	46.7	24.3	V	54	8.5
17993.4	45.5	-25.5	46.7	24.3	H	54	8.5
17984.6	45.4	-25.5	46.7	24.2	H	54	8.6
802.11ac Channel 56							
17987.9	45.7	-25.5	46.7	24.5	V	54	8.3
17990.1	45.7	-25.5	46.7	24.5	H	54	8.3
17996.7	45.6	-25.5	46.7	24.4	H	54	8.4
17979.1	45.5	-25.5	46.7	24.3	V	54	8.5
17989	45.5	-25.5	46.7	24.3	V	54	8.5
17992.3	45.5	-25.5	46.7	24.3	V	54	8.5

Frequency (MHz)	Result (dBUV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBUV/m)	Polarization	Limit (dBUV/m)	Margin (dBUV/m)
802.11ac Channel 64							
17996.7	45.8	-25.5	46.7	24.6	H	54	8.2
17982.4	45.7	-25.5	46.7	24.5	V	54	8.3
17990.1	45.7	-25.5	46.7	24.5	H	54	8.3
17997.8	45.7	-25.5	46.7	24.5	H	54	8.3
17986.8	45.6	-25.5	46.7	24.4	V	54	8.4
5350.2	45.4	-16.9	34	28.3	V	54	8.6
802.11ac Channel 100							
17981.3	45.6	-25.5	46.7	24.4	V	54	8.4
17985.7	45.6	-25.5	46.7	24.4	V	54	8.4
17993.4	45.6	-25.5	46.7	24.4	V	54	8.4
17994.5	45.6	-25.5	46.7	24.4	H	54	8.4
17990.1	45.4	-25.5	46.7	24.2	V	54	8.6
17991.200	45.4	-25.5	43.4	27.502	H	54	8.6
802.11ac Channel 120							
17995.6	46	-25.5	46.7	24.8	H	54	8
17991.2	45.6	-25.5	46.7	24.4	V	54	8.4
17997.8	45.6	-25.5	46.7	24.4	V	54	8.4
17989	45.5	-25.5	46.7	24.3	H	54	8.5



17992.3	45.5	-25.5	46.7	24.3V	54	8.5
17993.4	45.5	-25.5	46.7	24.3V	54	8.5
802.11ac Channel 140						
17989	45.6	-25.5	46.7	24.4H	54	8.4
17993.4	45.6	-25.5	46.7	24.4V	54	8.4
17996.7	45.6	-25.5	46.7	24.4H	54	8.4
17997.8	45.6	-25.5	46.7	24.4V	54	8.4
17986.8	45.5	-25.5	46.7	24.3V	54	8.5
18000.000	45.5	-26.5	46.4	25.605H	54	8.5

**802.11ac-HT40**

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
802.11ac 40M Channel:CH38							
17993.4	45.8	-25.5	46.7	24.6V		54	8.2
17997.8	45.7	-25.5	46.7	24.5H		54	8.3
17994.5	45.6	-25.5	46.7	24.4V		54	8.4
17989	45.5	-25.5	46.7	24.3H		54	8.5
17991.2	45.5	-25.5	46.7	24.3H		54	8.5
5150	53.6	-17	33.7	36.9H		54	0.4
802.11ac 40M Channel:CH46							
17997.8	45.9	-25.5	46.7	24.7V		54	8.1
17990.1	45.7	-25.5	46.7	24.5V		54	8.3
17987.9	45.6	-25.5	46.7	24.4H		54	8.4
17992.3	45.6	-25.5	46.7	24.4V		54	8.4
17995.6	45.6	-25.5	46.7	24.4H		54	8.4
17996.7	45.6	-25.5	46.7	24.4H		54	8.4
802.11ac 40M Channel:CH54							
17995.6	45.8	-25.5	46.7	24.6V		54	8.2
17994.5	45.7	-25.5	46.7	24.5H		54	8.3
17985.7	45.6	-25.5	46.7	24.4V		54	8.4
17989	45.6	-25.5	46.7	24.4H		54	8.4
17997.8	45.6	-25.5	46.7	24.4V		54	8.4
17987.9	45.5	-25.5	46.7	24.3V		54	8.5
802.11ac 40M Channel:CH62							
17994.5	45.9	-25.5	46.7	24.7V		54	8.1
17996.7	45.8	-25.5	46.7	24.6H		54	8.2
17997.8	45.8	-25.5	46.7	24.6H		54	8.2
17981.3	45.7	-25.5	46.7	24.5V		54	8.3

17992.3	45.7	-25.5	46.7	24.5	V	54	8.3
5350.3	48.2	-16.9	34	31.1	V	54	5.8
802.11ac 40M Channel:CH102							
17992.3	45.5	-25.5	46.7	24.3	V	54	8.5
17994.5	45.5	-25.5	46.7	24.3	V	54	8.5
17982.4	45.4	-25.5	46.7	24.2	V	54	8.6
17993.4	45.4	-25.5	46.7	24.2	V	54	8.6
17989	45.3	-25.5	46.7	24.1	V	54	8.7
17997.800	45.2	-25.5	43.4	27.302	H	54	8.8

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
802.11ac 40M Channel:CH118							
17995.6	45.5	-25.5	46.7	24.3	H	54	8.5
17989	45.4	-25.5	46.7	24.2	H	54	8.6
17992.3	45.4	-25.5	46.7	24.2	V	54	8.6
17997.8	45.4	-25.5	46.7	24.2	H	54	8.6
17990.1	45.3	-25.5	46.7	24.1	V	54	8.7
17994.5	45.3	-25.5	46.7	24.1	V	54	8.7
802.11ac 40M Channel:CH134							
17994.5	45.5	-25.5	46.7	24.3	H	54	8.5
17995.6	45.5	-25.5	46.7	24.3	V	54	8.5
17996.7	45.5	-25.5	46.7	24.3	H	54	8.5
17989	45.4	-25.5	46.7	24.2	V	54	8.6
17997.8	45.4	-25.5	46.7	24.2	V	54	8.6
17986.800	45.3	-25.5	43.4	27.402	H	54	8.7

**802.11ac-HT80**

Frequency (MHz)	Result (dBuV/m)	Cable Loss (dB)	Antenna Factor	PMea (dBuV/m)	Polarization	Limit (dBuV/m)	Margin (dBuV/m)
802.11ac 80M Channel:CH42							
17994.5	45.7	-25.5	46.7	24.5	H	54	8.3
17997.8	45.5	-25.5	46.7	24.3	V	54	8.5
17993.4	45.4	-25.5	46.7	24.2	H	54	8.6
17987.9	45.3	-25.5	46.7	24.1	H	54	8.7
17991.2	45.3	-25.5	46.7	24.1	V	54	8.7
5144.8	53.4	-17	33.7	36.7	V	54	0.6
802.11ac 80M Channel:CH58							
17997.8	45.7	-25.5	46.7	24.5	H	54	8.3
17993.4	45.5	-25.5	46.7	24.3	V	54	8.5
17994.5	45.5	-25.5	46.7	24.3	H	54	8.5
17987.9	45.4	-25.5	46.7	24.2	H	54	8.6
17992.3	45.3	-25.5	46.7	24.1	V	54	8.7
5351.3	49.2	-16.9	34	32.1	H	54	4.8
802.11ac 80M Channel:CH106							
17987.9	45.4	-25.5	46.7	24.2	H	54	8.6
17994.5	45.4	-25.5	46.7	24.2	V	54	8.6
17990.1	45.3	-25.5	46.7	24.1	V	54	8.7
17997.8	45.3	-25.5	46.7	24.1	V	54	8.7
17978	45.2	-25.5	46.7	24	H	54	8.8
5459.4	50.6	-16.8	34.2	33.2	V	54	3.4

Sample calculation:

802.11ac CH106 - Average, 5459.4 MHz

Result (dBuV/m) = PMea(34.2) + Cable Loss(-16.8) + Antenna Factor(34.2)= 50.6dBuV/m

### A.7. AC Powerline Conducted Emission (150kHz- 30MHz)

**Test Condition:**

Voltage (V)	Frequency (Hz)
110	60

**Measurement Result and limit:**

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		11a mode		
0.15 to 0.5	66 to 56	Fig.69		P
0.5 to 5	56			
5 to 30	60			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

WLAN (Average Limit)

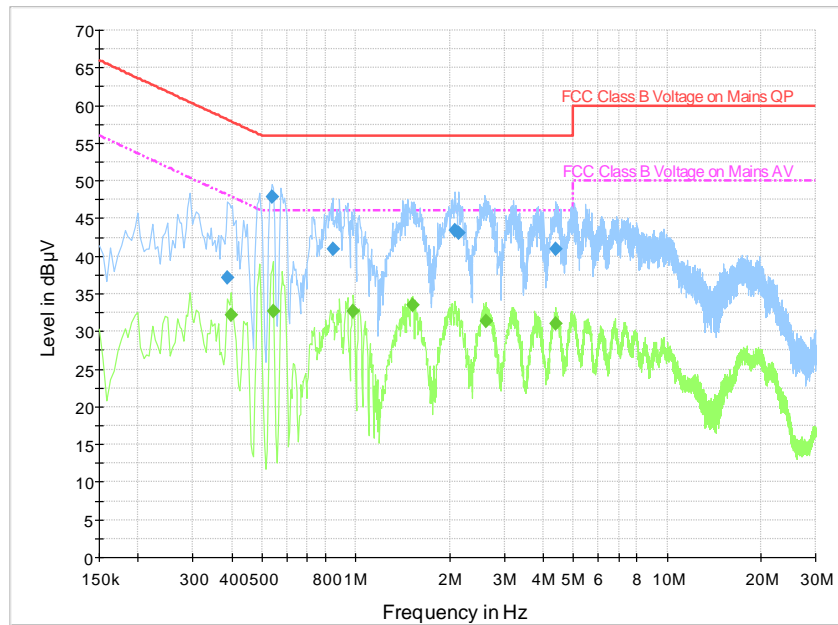
Frequency range (MHz)	Average Limit (dB $\mu$ V)	Result (dB $\mu$ V)		Conclusion
		With charger		
		11a mode		
0.15 to 0.5	56 to 46	Fig.69		P
0.5 to 5	46			
5 to 30	50			

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

**Conclusion: PASS**

Test graphs as below:

Result for Traffic:



**Fig.69 Conducted Emission (802.11a, Ch40, TX)**

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.388500	37.1	N	19.9	21.0	58.1
0.537000	47.9	L1	20.1	8.1	56.0
0.843000	40.9	L1	20.0	15.1	56.0
2.089500	43.5	L1	20.1	12.5	56.0
2.148000	43.1	L1	20.1	12.9	56.0
4.380000	41.0	L1	20.7	15.0	56.0

**Final Result 2**

Frequency (MHz)	Average (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.397500	32.2	L1	20.1	15.7	47.9
0.541500	32.7	L1	20.1	13.3	46.0
0.982500	32.7	L1	19.8	13.3	46.0
1.522500	33.6	L1	19.9	12.4	46.0
2.620500	31.4	L1	20.2	14.6	46.0
4.398000	31.0	N	20.4	15.0	46.0

### A.8. 99% Occupied bandwidth

Method of Measurement: See ANSI C63.10-2013-clause 12.4.2.

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than  $[10 \log (OBW/RBW)]$  below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

#### Measurement Uncertainty:

Measurement Uncertainty	60.80Hz
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#### Measurement Result:

Mode	Frequency	99% Occupied bandwidth ( MHz)		conclusion
802.11a	5180 MHz	Fig.70	17.11	P
	5200 MHz	Fig.71	17.09	P
	5240 MHz	Fig.72	18.37	P
802.11n HT20	5180 MHz	Fig.73	18.39	P
	5200 MHz	Fig.74	18.32	P
	5240 MHz	Fig.75	18.38	P
802.11ac HT20	5180 MHz	Fig.76	18.40	P
	5200 MHz	Fig.77	18.38	P
	5240 MHz	Fig.78	18.40	P
802.11n HT40	5190 MHz	Fig.79	36.38	P
	5230 MHz	Fig.80	36.36	P
802.11ac	5190 MHz	Fig.81	36.36	P

HT40	5230 MHz	Fig.82	36.37	P
802.11ac HT80	5210 MHz	Fig.83	75.83	P

**Conclusion: PASS**  
**Test graphs as below:**



**Fig.70 99% Occupied bandwidth (802.11a, 5180MHz)**

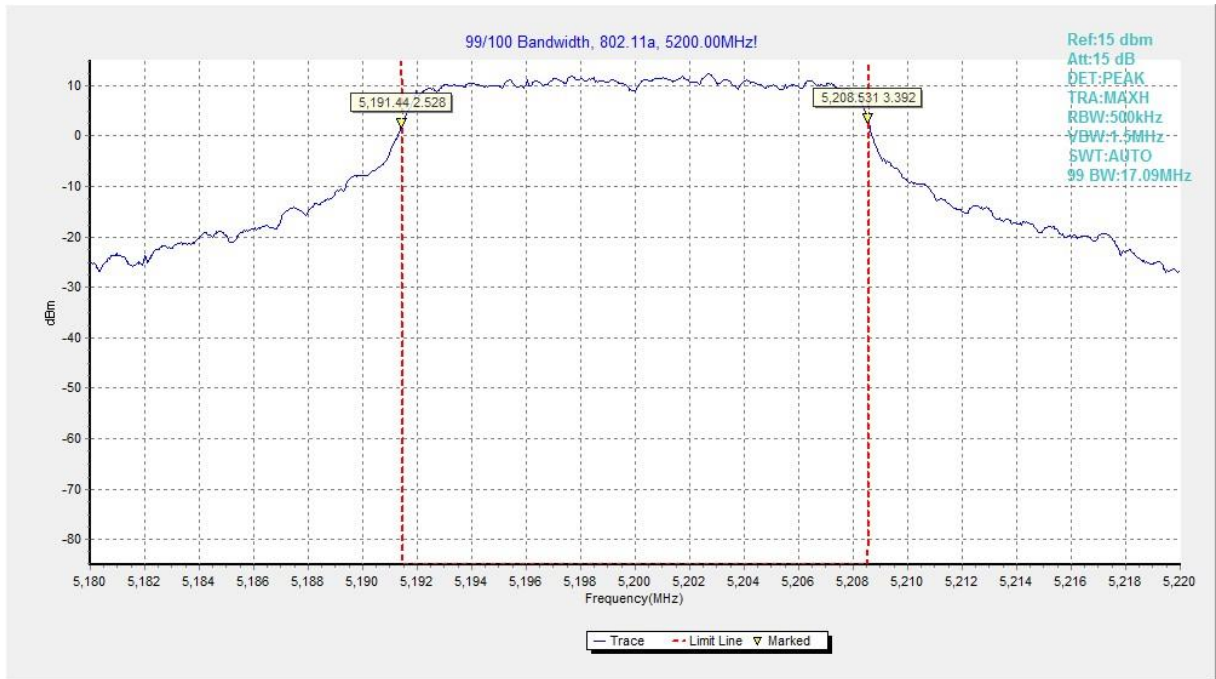
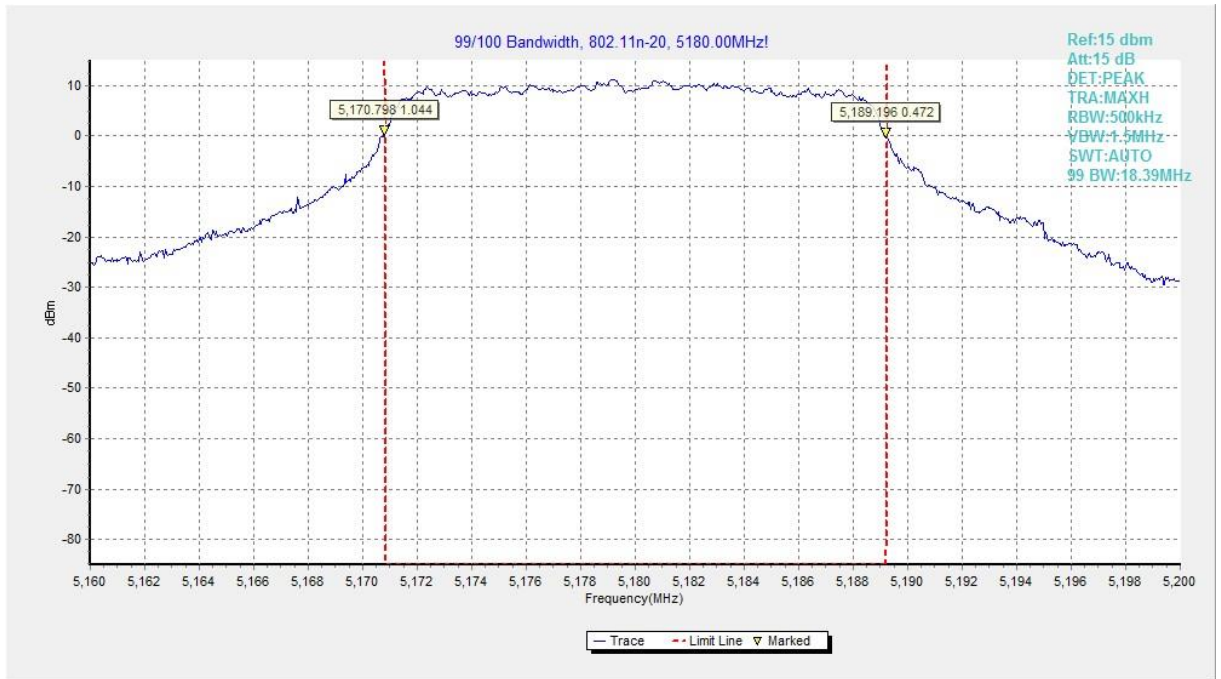


Fig.71 99% Occupied bandwidth (802.11a, 5200MHz)

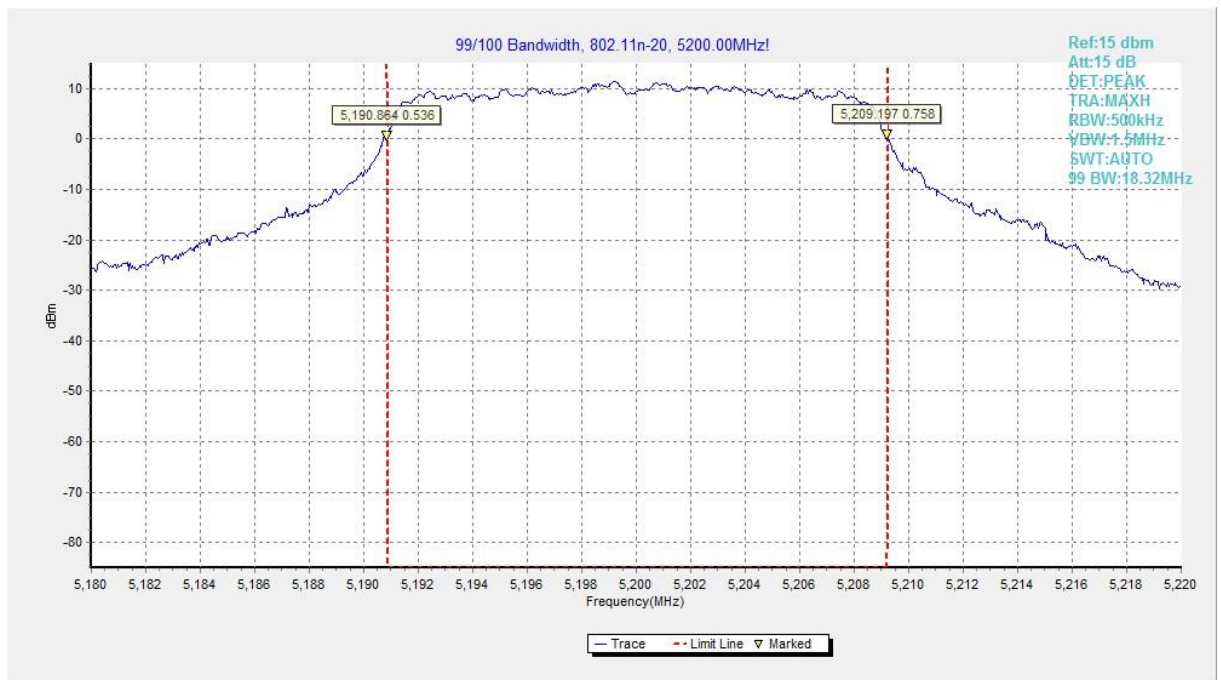


Fig.72 99% Occupied bandwidth (802.11a, 5240MHz)





**Fig.73 99% Occupied bandwidth (802.11n-HT20, 5180MHz)**



**Fig.74 99% Occupied bandwidth (802.11n-HT20, 5200MHz)**



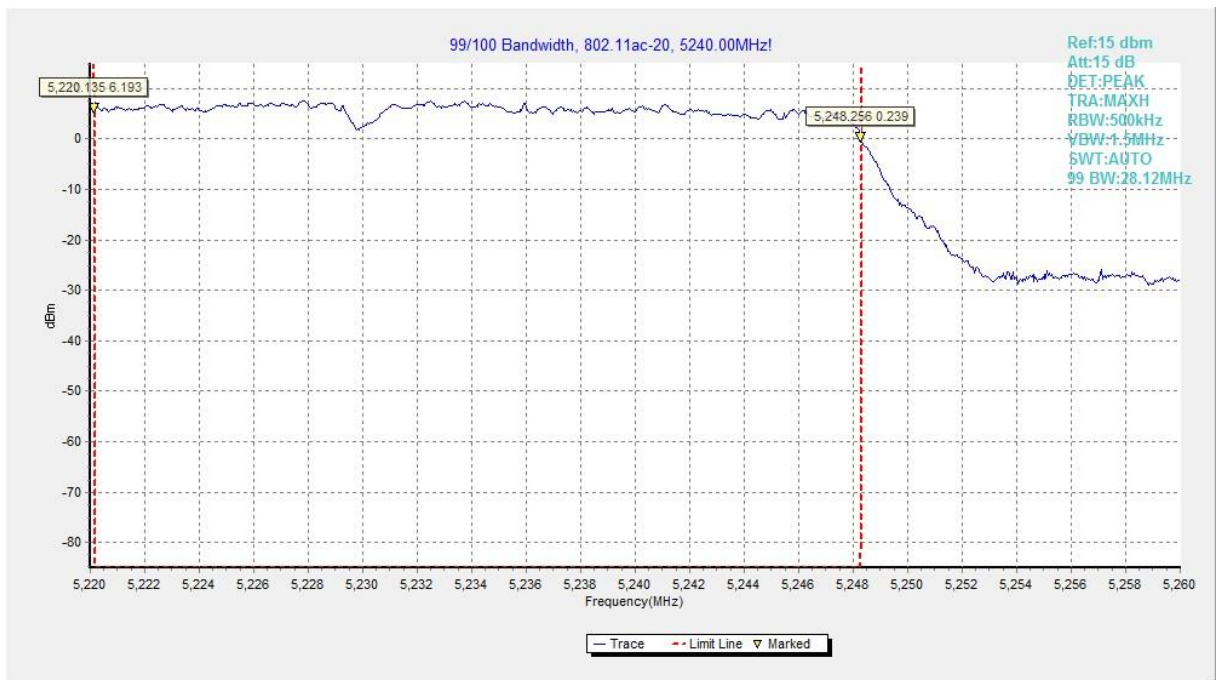
**Fig.75 99% Occupied bandwidth (802.11n-HT20, 5240MHz)**



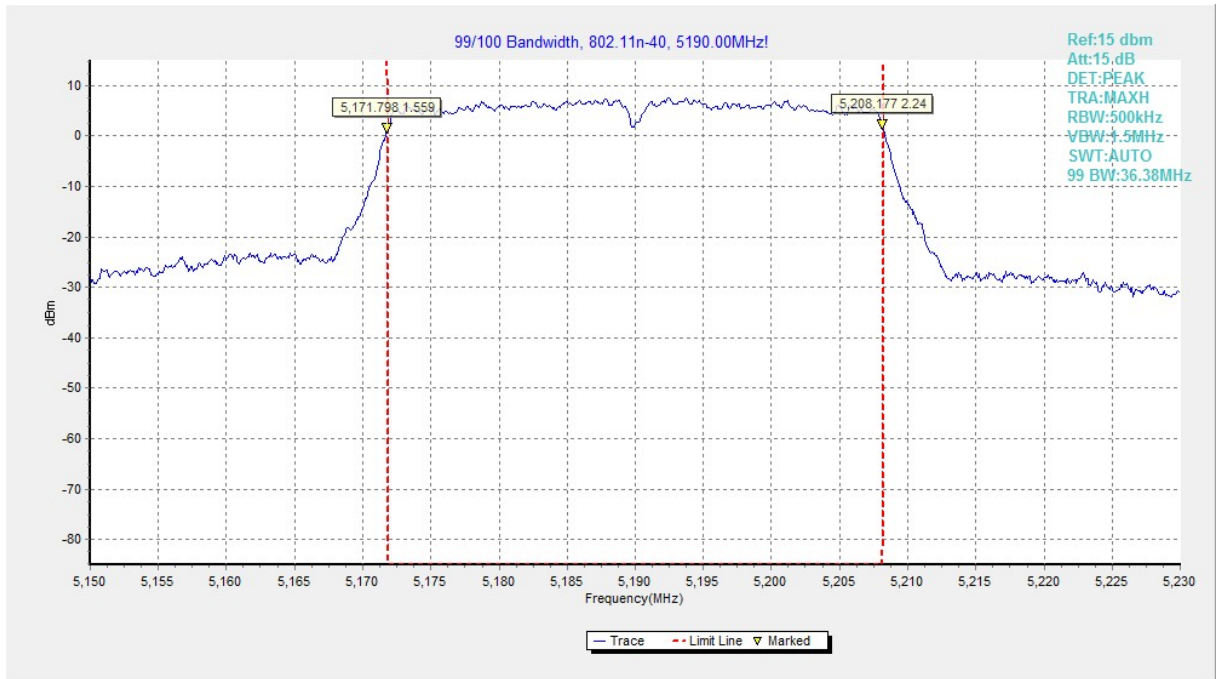
**Fig.76 99% Occupied bandwidth (802.11ac-HT20, 5180MHz)**



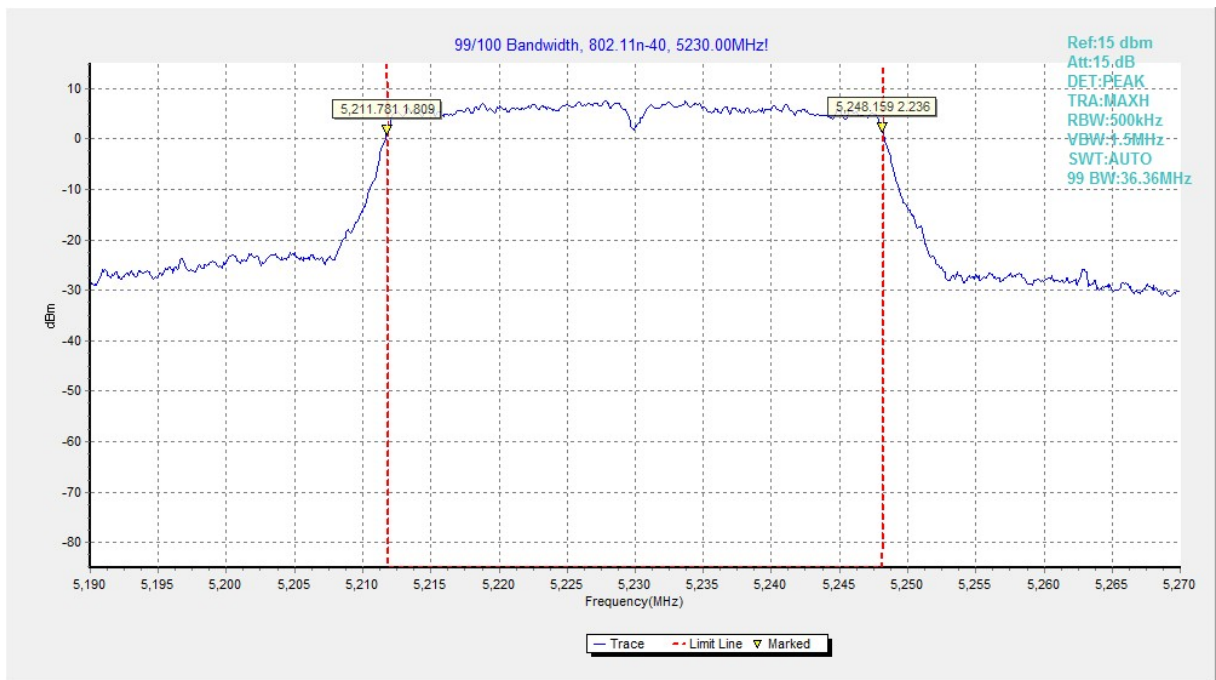
**Fig.77 99% Occupied bandwidth (802.11ac-HT20, 5200MHz)**



**Fig.78 99% Occupied bandwidth (802.11ac-HT20, 5240MHz)**

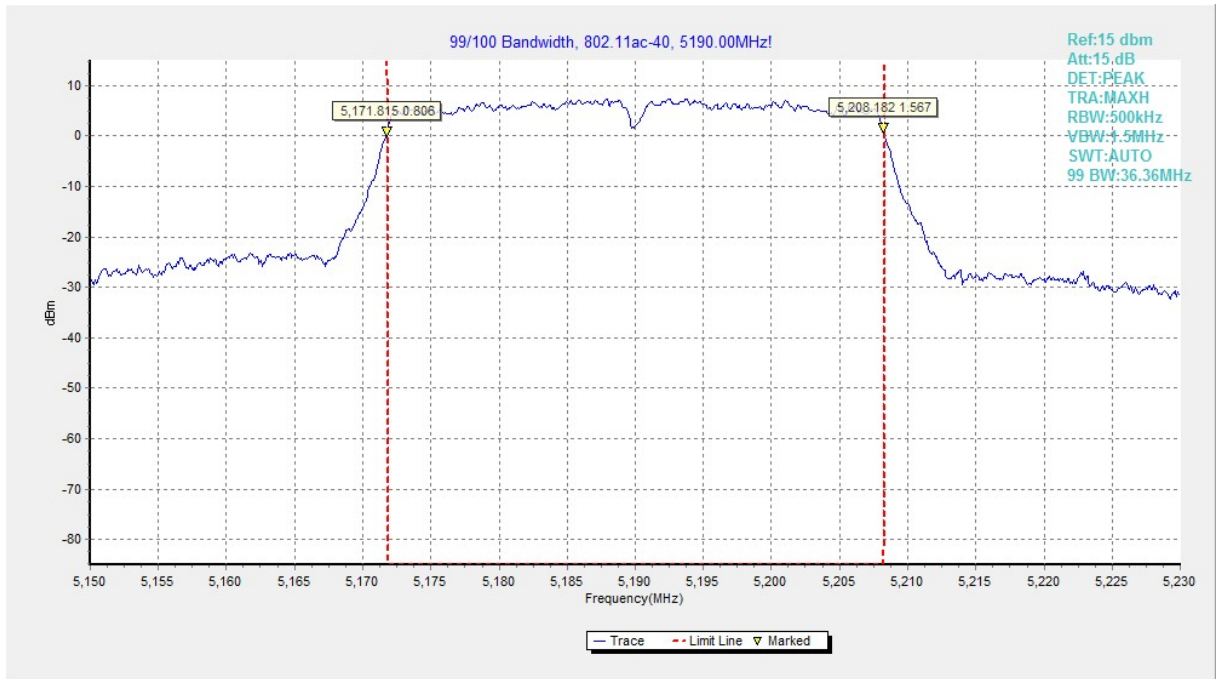


**Fig.79 99% Occupied bandwidth (802.11n-HT40, 5190MHz)**

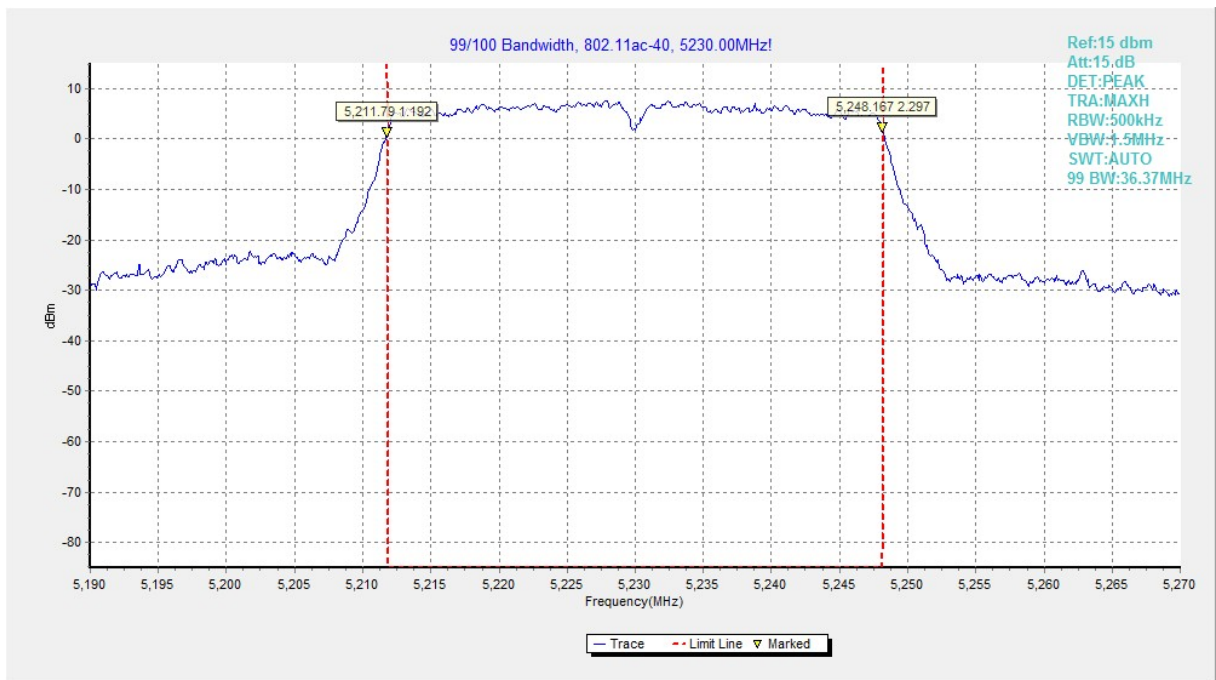


**Fig.80 99% Occupied bandwidth (802.11n-HT40, 5230MHz)**

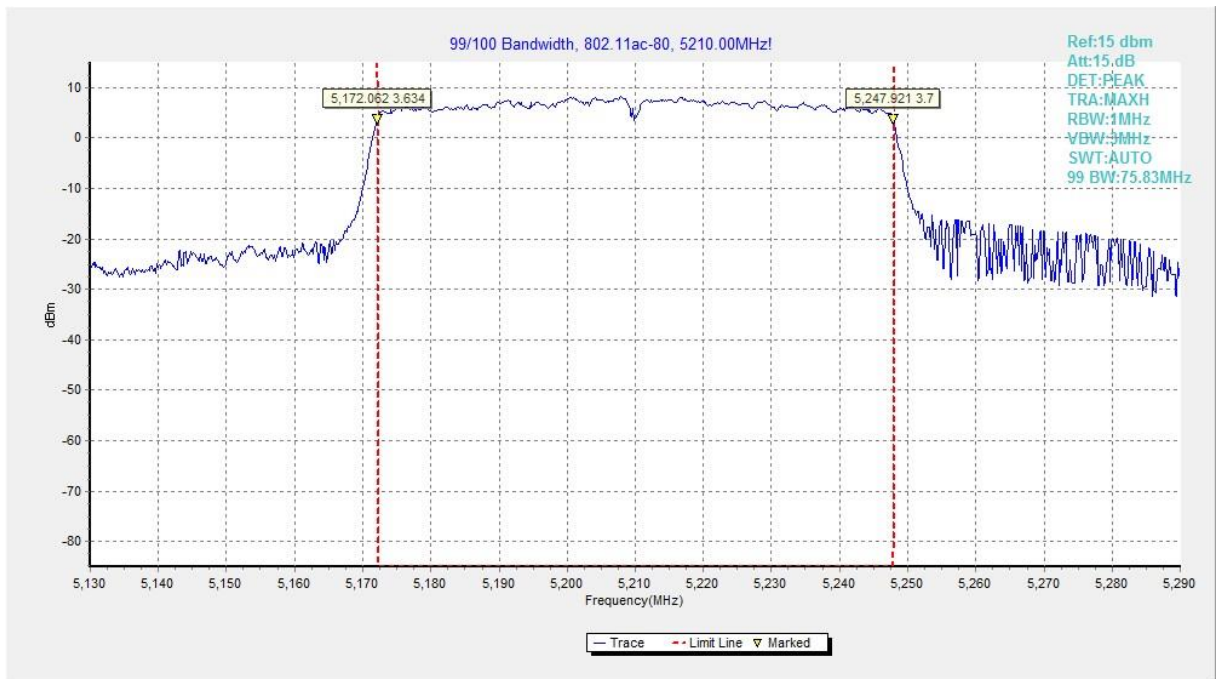




**Fig.81 99% Occupied bandwidth (802.11ac-HT40, 5190MHz)**



**Fig.82 99% Occupied bandwidth (802.11ac-HT40, 5230MHz)**



**Fig.83 99% Occupied bandwidth (802.11ac-HT80, 5210MHz)**

### A.9. Power control

A Transmission Power Control mechanism is not required for systems with an e.i.r.p. of less than 27dBm (500 mW).

## ANNEX B: Accreditation Certificate

<p>United States Department of Commerce National Institute of Standards and Technology</p>  <hr/> <p><b>Certificate of Accreditation to ISO/IEC 17025:2005</b></p> <hr/> <p>NVLAP LAB CODE: 600118-0</p> <p><b>Telecommunication Technology Labs, CAICT</b> Beijing China</p> <p><i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i></p> <p><b>Electromagnetic Compatibility &amp; Telecommunications</b></p> <p><i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).</i></p> <hr/> <table border="0" style="width: 100%;"><tr><td style="width: 40%; text-align: center;"><p>2019-09-26 through 2020-09-30 <i>Effective Dates</i></p></td><td style="width: 20%; text-align: center;"></td><td style="width: 40%; text-align: center;"> <i>For the National Voluntary Laboratory Accreditation Program</i></td></tr></table>		<p>2019-09-26 through 2020-09-30 <i>Effective Dates</i></p>		 <i>For the National Voluntary Laboratory Accreditation Program</i>
<p>2019-09-26 through 2020-09-30 <i>Effective Dates</i></p>		 <i>For the National Voluntary Laboratory Accreditation Program</i>		

\*\*\* END OF REPORT BODY \*\*\*