

Channel 56

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.750	40.2	-25.8	34.5	31.53	54.0	13.8	V
5351.650	40.1	-25.8	34.5	31.44	54.0	13.9	V
10639.900	31.4	-33.3	37.6	27.15	54.0	22.6	V
15959.500	36.5	-27.7	40.6	23.53	54.0	17.5	H
17850.400	37.9	-26.3	41.2	23.08	54.0	16.1	H
17952.700	38.0	-26.1	41.3	22.88	54.0	16.0	H

Channel 64

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5351.500	40.6	-25.8	34.5	31.93	54.0	13.4	V
5352.250	40.6	-25.8	34.5	31.95	54.0	13.4	V
10644.300	32.1	-33.3	37.6	27.81	54.0	21.9	H
15959.500	36.5	-27.7	40.6	23.51	54.0	17.5	H
17853.700	37.9	-26.3	41.2	23.10	54.0	16.1	V
17957.100	38.1	-26.1	41.3	22.88	54.0	15.9	H

Channel 100

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5455.600	40.9	-25.4	34.6	-50.10	54.0	13.1	V
5458.300	40.9	-25.3	34.6	-50.11	54.0	13.1	V
10999.600	33.2	-32.7	37.8	-38.34	54.0	20.8	V
15947.400	36.8	-27.7	40.6	-49.69	54.0	17.2	V
17840.500	37.7	-26.4	41.2	-52.54	54.0	16.3	V
17957.100	38.1	-26.1	41.3	-53.24	54.0	15.9	H

Channel 120

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5455.200	39.8	-25.4	34.6	-48.98	54.0	14.2	V
5458.900	39.8	-25.3	34.6	-49.04	54.0	14.2	V
11199.800	33.2	-32.1	38.0	-39.04	54.0	20.8	V
15944.100	36.8	-27.7	40.6	-49.75	54.0	17.2	H
17857.000	38.1	-26.3	41.2	-52.93	54.0	15.9	V
17962.600	38.0	-26.1	41.3	-53.17	54.0	16.0	H

Channel 140

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5454.400	39.7	-25.4	34.6	-48.94	54.0	14.3	V
5459.350	39.8	-25.3	34.6	-48.98	54.0	14.2	V
11400.000	33.4	-32.3	38.1	-39.19	54.0	20.6	H
15950.700	36.8	-27.7	40.6	-49.79	54.0	17.2	H
17750.300	37.6	-26.5	41.1	-52.18	54.0	16.4	V
17881.200	38.1	-26.3	41.2	-53.01	54.0	15.9	V

802.11n-HT40

Channel 38

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.400	39.5	-25.8	34.5	30.82	54.0	14.5	V
5353.000	39.5	-25.8	34.5	30.82	54.0	14.5	V
12443.900	34.5	-31.1	38.9	26.75	54.0	19.5	V
15570.100	35.0	-28.8	40.1	23.69	54.0	19.0	H
17846.000	37.9	-26.4	41.2	23.12	54.0	16.1	H
17954.900	38.1	-26.1	41.3	22.96	54.0	15.9	H

Channel 46

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5351.250	39.8	-25.8	34.5	31.08	54.0	14.2	V
5355.750	39.6	-25.8	34.5	30.88	54.0	14.4	V
12412.000	34.4	-31.2	38.9	26.78	54.0	19.6	H
15690.000	35.4	-28.5	40.3	23.70	54.0	18.6	V
17862.500	37.9	-26.3	41.2	23.07	54.0	16.1	V
17957.100	38.1	-26.1	41.3	22.94	54.0	15.9	H

Channel 54

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5351.800	40.4	-25.8	34.5	31.68	54.0	13.6	V
5352.400	40.4	-25.8	34.5	31.68	54.0	13.6	V
12446.100	34.4	-31.1	38.9	26.68	54.0	19.6	H
15809.900	35.8	-28.3	40.4	23.71	54.0	18.2	V
17851.500	37.9	-26.3	41.2	23.05	54.0	16.1	H

17954.900	38.1	-26.1	41.3	22.90	54.0	15.9	V
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Channel 62

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5357.000	41.4	-25.8	34.5	32.66	54.0	12.6	V
5357.150	41.4	-25.8	34.5	32.72	54.0	12.6	V
10620.100	31.5	-33.3	37.6	27.21	54.0	22.5	V
15929.800	36.6	-27.8	40.6	23.81	54.0	17.4	V
17737.100	37.5	-26.5	41.1	22.92	54.0	16.5	V
17960.400	38.1	-26.1	41.3	22.94	54.0	15.9	H

Channel 102

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5459.750	41.5	-25.3	34.6	-50.70	54.0	12.5	V
5459.850	41.4	-25.3	34.6	-50.68	54.0	12.6	V
11020.500	33.1	-32.6	37.8	-38.32	54.0	20.9	H
15944.100	36.8	-27.7	40.6	-49.70	54.0	17.2	H
17862.500	37.9	-26.3	41.2	-52.74	54.0	16.1	V
17958.200	38.1	-26.1	41.3	-53.23	54.0	15.9	V

Channel 118

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5456.550	39.8	-25.3	34.6	-49.05	54.0	14.2	V
5458.400	39.9	-25.3	34.6	-49.11	54.0	14.1	V
11180.000	33.3	-32.1	37.9	-39.16	54.0	20.7	H
15945.200	36.8	-27.7	40.6	-49.74	54.0	17.2	H
17743.700	37.7	-26.5	41.1	-52.24	54.0	16.3	V
17958.200	38.1	-26.1	41.3	-53.28	54.0	15.9	H

Channel 134

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5455.700	39.7	-25.4	34.6	-48.89	54.0	14.3	V
5458.600	39.7	-25.3	34.6	-48.95	54.0	14.3	V
11339.500	33.2	-32.2	38.1	-39.08	54.0	20.8	V
15956.200	36.8	-27.7	40.6	-49.78	54.0	17.2	H
17748.100	37.6	-26.5	41.1	-52.14	54.0	16.4	V
17962.600	38.1	-26.1	41.3	-53.27	54.0	15.9	V

802.11ac-HT40
Channel 38

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5364.950	39.2	-25.8	34.5	30.52	54.0	14.8	V
5384.250	39.4	-25.7	34.5	30.63	54.0	14.6	V
12443.200	34.4	-31.1	38.9	26.67	54.0	19.6	V
15570.400	35.0	-28.8	40.1	23.63	54.0	19.0	H
17861.600	38.0	-26.3	41.2	23.16	54.0	16.0	V
17956.800	38.1	-26.1	41.3	22.96	54.0	15.9	V

Channel 46

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.850	41.0	-25.8	34.5	32.26	54.0	13.0	V
5353.000	40.9	-25.8	34.5	32.19	54.0	13.1	V
12440.000	34.5	-31.1	38.9	26.71	54.0	19.5	V
15690.400	35.4	-28.5	40.3	23.63	54.0	18.6	H
17853.600	38.0	-26.3	41.2	23.14	54.0	16.0	H
17862.400	37.9	-26.3	41.2	23.07	54.0	16.1	H

Channel 54

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.950	40.4	-25.8	34.5	31.73	54.0	13.6	V
5355.600	40.4	-25.8	34.5	31.72	54.0	13.6	V
12442.400	34.4	-31.1	38.9	26.62	54.0	19.6	H
15810.400	35.8	-28.3	40.4	23.65	54.0	18.2	V
17852.800	38.1	-26.3	41.2	23.21	54.0	15.9	H
17879.200	38.0	-26.3	41.2	23.08	54.0	16.0	H

Channel 62

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.650	43.2	-25.8	34.5	34.47	54.0	10.8	V
5351.100	43.1	-25.8	34.5	34.37	54.0	10.9	V
10620.000	31.2	-33.3	37.6	26.99	54.0	22.8	H
15930.400	36.6	-27.8	40.6	23.82	54.0	17.4	V
17852.800	38.1	-26.3	41.2	23.25	54.0	15.9	V
17856.800	38.1	-26.3	41.2	23.20	54.0	15.9	V

Channel 102

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5459.700	41.1	-25.3	34.6	-50.32	54.0	12.9	V
5459.800	41.1	-25.3	34.6	-50.33	54.0	12.9	V
11020.500	32.7	-32.6	37.8	-37.85	54.0	21.3	V
15950.700	36.8	-27.7	40.6	-49.77	54.0	17.2	V
17968.100	38.1	-26.1	41.3	-53.28	54.0	15.9	V
17852.600	37.9	-26.3	41.2	-52.78	54.0	16.1	V

Channel 118

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5459.600	39.8	-25.3	34.6	-49.07	54.0	14.2	V
5459.650	39.8	-25.3	34.6	-49.07	54.0	14.2	V
11180.000	33.2	-32.1	37.9	-39.04	54.0	20.8	H
15947.400	36.7	-27.7	40.6	-49.67	54.0	17.3	H
17854.800	38.0	-26.3	41.2	-52.87	54.0	16.0	V
17961.500	38.0	-26.1	41.3	-53.23	54.0	16.0	V

Channel 134

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5459.900	39.7	-25.3	34.6	-48.89	54.0	14.3	V
5459.950	39.7	-25.3	34.6	-48.95	54.0	14.3	V
11339.500	33.1	-32.2	38.1	-39.03	54.0	20.9	H
15945.200	36.8	-27.7	40.6	-49.75	54.0	17.2	V
17741.500	37.5	-26.5	41.1	-52.09	54.0	16.5	H
17957.100	38.1	-26.1	41.3	-53.25	54.0	15.9	V

802.11ac-HT80
Channel 42

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5115.750	41.1	-25.6	34.2	32.45	54.0	12.9	V
5358.000	39.6	-25.8	34.5	30.85	54.0	14.4	V
12440.800	34.6	-31.1	38.9	26.81	54.0	19.4	V
15630.400	35.6	-28.6	40.2	24.03	54.0	18.4	H
17856.000	38.0	-26.3	41.2	23.20	54.0	16.0	H
17955.200	38.1	-26.1	41.3	22.89	54.0	15.9	H

Channel 58

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5141.250	39.1	-25.7	34.2	30.51	54.0	14.9	V
5364.000	40.7	-25.8	34.5	32.02	54.0	13.3	V
12445.600	34.4	-31.1	38.9	26.69	54.0	19.6	H
15870.400	36.0	-28.0	40.5	23.54	54.0	18.0	V
17951.200	38.1	-26.1	41.3	22.99	54.0	15.9	H
17850.400	38.0	-26.3	41.2	23.21	54.0	16.0	V

Channel 106

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5457.500	45.3	-25.3	34.6	36.10	54.0	8.7	V
5455.300	45.3	-25.4	34.6	36.09	54.0	8.7	V
11060.000	32.9	-32.5	37.8	27.58	54.0	21.1	V
15949.600	36.9	-27.7	40.6	23.99	54.0	17.1	V
17854.400	38.0	-26.3	41.2	23.18	54.0	16.0	V
17954.400	38.1	-26.1	41.3	22.91	54.0	15.9	H

Peak
802.11a

Channel 36

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5132.405	55.9	-25.6	34.2	47.27	74.0	18.1	V
5144.708	55.4	-25.7	34.2	46.85	74.0	18.6	V
10359.400	45.6	-33.1	37.4	41.25	68.3	22.7	V
15539.850	48.0	-28.8	40.1	36.78	68.3	20.3	H
16684.400	51.8	-27.5	41.4	37.94	68.3	16.5	H
16845.550	52.1	-27.2	41.5	37.81	68.3	16.2	V

Channel 40

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5158.600	54.6	-25.7	34.3	46.11	68.3	13.7	V
5287.600	56.1	-25.8	34.4	47.55	68.3	12.2	V
10402.300	45.2	-33.2	37.5	40.95	68.3	23.1	V
15599.800	47.5	-28.7	40.1	36.08	68.3	20.8	H
16659.650	51.9	-27.5	41.4	38.01	68.3	16.4	V
17167.850	52.3	-26.9	41.4	37.76	68.3	16.0	H

Channel 48

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5200.800	55.0	-25.8	34.3	46.47	68.3	13.3	V
5273.800	55.6	-25.8	34.4	47.03	68.3	12.7	V
10479.300	45.5	-33.1	37.5	41.14	68.3	22.8	V
15720.250	48.2	-28.5	40.3	36.41	74.0	25.8	V
17032.000	52.5	-27.0	41.6	37.91	68.3	15.8	H
17222.850	51.6	-26.9	41.3	37.17	68.3	16.7	H

Channel 52

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5219.400	53.5	-25.8	34.3	44.92	74.0	20.5	V
5295.200	54.2	-25.8	34.4	45.59	74.0	19.8	V
10520.000	44.8	-33.1	37.5	40.42	68.3	23.5	H
15780.200	49.0	-28.4	40.4	36.97	74.0	25.0	V
16947.850	51.1	-27.1	41.6	36.58	68.3	17.2	H
17569.350	51.9	-26.7	41.0	37.60	68.3	16.4	H

Channel 56

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5246.600	53.7	-25.8	34.4	45.07	68.3	14.6	V
5320.000	54.4	-25.8	34.4	45.76	68.3	13.9	V
10553.550	46.6	-33.2	37.5	42.28	68.3	21.7	H
15840.150	49.3	-28.2	40.5	36.99	74.0	24.7	H
16987.450	51.9	-27.1	41.7	37.30	68.3	16.4	V
17447.800	52.4	-26.8	41.0	38.23	68.3	15.9	V

Channel 64

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5360.087	63.7	-25.8	34.5	54.98	74.0	10.3	V
5366.472	63.8	-25.7	34.5	55.06	74.0	10.2	V
10638.800	46.0	-33.3	37.6	41.71	74.0	28.0	H
15960.050	49.1	-27.7	40.6	36.07	74.0	24.9	H
17050.700	52.5	-27.0	41.6	37.93	68.3	15.8	H
17148.600	52.2	-26.9	41.5	37.68	68.3	16.1	V

Channel 100

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5458.593	64.1	-25.3	34.6	54.87	74.0	9.9	V
5458.315	55.4	-25.3	34.6	46.21	74.0	18.6	V
11000.150	45.1	-32.7	37.8	39.98	74.0	28.9	H
16500.150	49.1	-27.6	41.2	35.51	68.3	19.2	H
16990.200	52.1	-27.1	41.7	37.51	68.3	16.2	V
17663.950	51.8	-26.6	41.0	37.37	68.3	16.5	V

Channel 120

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5544.200	54.8	-25.1	34.6	45.34	68.3	13.5	V
5631.000	55.6	-24.8	34.7	45.64	68.3	12.7	V
11199.800	45.2	-32.1	38.0	39.32	74.0	28.8	H
16799.900	48.7	-27.3	41.5	34.53	68.3	19.6	V
17041.350	51.7	-27.0	41.6	37.10	68.3	16.6	H
17369.700	51.5	-26.8	41.1	37.23	68.3	16.8	V

Channel 140

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5727.313	57.0	-24.8	34.8	46.97	68.3	11.3	V
5752.200	55.7	-24.8	34.9	45.62	68.3	12.6	V
11400.000	46.3	-32.3	38.1	40.52	74.0	27.7	V
17100.200	49.1	-27.0	41.5	34.52	68.3	19.2	V
17464.300	51.8	-26.8	41.0	37.55	68.3	16.5	V
17682.650	51.3	-26.6	41.0	36.89	68.3	17.0	H

802.11n-HT20

Channel 36

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5127.505	57.4	-25.6	34.2	48.79	74.0	16.6	V
5130.165	60.5	-25.6	34.2	51.95	74.0	13.5	V
10359.950	45.4	-33.1	37.4	41.03	68.3	22.9	V
15539.850	47.7	-28.8	40.1	36.51	68.3	20.6	H
16800.450	52.3	-27.3	41.5	38.08	68.3	16.0	H
17149.150	51.8	-26.9	41.5	37.26	68.3	16.5	H

Channel 40

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5167.200	55.6	-25.7	34.3	47.05	68.3	12.7	V
5233.200	56.9	-25.7	34.3	48.27	68.3	11.4	V
10398.450	46.0	-33.2	37.5	41.69	68.3	22.3	H
15600.350	48.9	-28.7	40.1	37.44	68.3	19.4	H
16961.050	52.0	-27.1	41.7	37.48	68.3	16.3	V
17051.800	52.9	-27.0	41.6	38.26	68.3	15.4	V

Channel 48

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5174.400	54.6	-25.8	34.3	46.08	68.3	13.7	V
5305.600	55.4	-25.8	34.4	46.76	68.3	12.9	V
10479.850	45.3	-33.1	37.5	40.88	68.3	23.0	V
15721.350	49.0	-28.5	40.3	37.18	74.0	25.0	H
17055.100	52.1	-27.0	41.6	37.54	68.3	16.2	V
17059.500	52.3	-27.0	41.6	37.66	68.3	16.0	V

Channel 52

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5227.000	53.8	-25.8	34.3	45.26	74.0	20.2	V
5289.000	53.9	-25.8	34.4	45.27	74.0	20.1	V
10520.000	43.8	-33.1	37.5	39.44	68.3	24.5	H
15780.200	48.4	-28.4	40.4	36.41	74.0	25.6	H
16743.250	51.6	-27.4	41.4	37.51	68.3	16.7	V
17258.600	51.9	-26.9	41.3	37.52	68.3	16.4	V

Channel 56

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5241.800	54.6	-25.7	34.3	46.05	68.3	13.7	V
5322.000	54.9	-25.8	34.4	46.22	68.3	13.4	V
10560.150	44.6	-33.2	37.5	40.26	68.3	23.7	V
15840.150	51.0	-28.2	40.5	38.66	74.0	23.0	H
16946.750	52.3	-27.1	41.6	37.80	68.3	16.0	V
17652.950	52.8	-26.6	41.0	38.37	68.3	15.5	H

Channel 64

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5360.546	62.4	-25.8	34.5	53.66	74.0	11.6	V
5386.533	59.6	-25.7	34.5	50.87	74.0	14.4	V
10639.900	44.3	-33.3	37.6	39.99	74.0	29.7	H
15960.050	49.9	-27.7	40.6	36.93	74.0	24.1	H
16962.150	52.3	-27.1	41.7	37.70	68.3	16.0	H
17670.550	52.1	-26.6	41.0	37.71	68.3	16.2	V

Channel 100

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5446.450	54.7	-25.4	34.5	45.60	74.0	19.3	V
5447.950	55.4	-25.4	34.6	46.23	74.0	18.6	V
11000.150	45.4	-32.7	37.8	40.29	74.0	28.6	H
16500.150	48.7	-27.6	41.2	35.16	68.3	19.6	V
16998.450	51.5	-27.1	41.7	36.90	68.3	16.8	H
17605.650	52.3	-26.7	41.0	37.99	68.3	16.0	H

Channel 120

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5727.650	63.2	-24.8	34.8	53.12	68.3	5.2	V
5728.913	58.1	-24.8	34.8	48.10	68.3	10.2	V
11199.800	47.3	-32.1	38.0	41.40	74.0	26.7	V
16799.900	49.2	-27.3	41.5	34.95	68.3	19.1	H
17036.400	51.7	-27.0	41.6	37.05	68.3	16.6	H
17629.300	51.3	-26.7	41.0	36.94	68.3	17.0	H

Channel 140

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5733.363	57.6	-24.8	34.8	47.54	68.3	10.7	V
5735.900	63.1	-24.8	34.8	53.07	68.3	5.2	V
11400.100	46.2	-32.3	38.1	40.41	74.0	27.8	H
17100.200	49.1	-27.0	41.5	34.55	68.3	19.2	H
17262.450	51.2	-26.9	41.3	36.79	68.3	17.1	V
17665.305	53.0	-26.6	41.0	38.64	68.3	15.3	H

802.11ac-HT20

Channel 36

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5132.615	56.1	-25.6	34.2	47.49	74.0	17.9	V
5138.478	60.9	-25.7	34.2	52.29	74.0	13.1	V
10359.950	46.1	-33.1	37.4	41.72	68.3	22.2	V
15538.750	48.8	-28.8	40.1	37.55	68.3	19.5	V
16913.750	52.2	-27.2	41.6	37.78	68.3	16.1	H
17135.400	52.2	-26.9	41.5	37.61	68.3	16.1	H

Channel 40

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5154.000	54.0	-25.7	34.3	45.43	68.3	14.3	V
5364.200	55.0	-25.8	34.5	46.29	68.3	13.3	V
10401.200	45.3	-33.2	37.5	40.98	68.3	23.0	H
15599.250	48.6	-28.7	40.1	37.16	68.3	19.7	H
16546.350	51.7	-27.6	41.2	38.01	68.3	16.6	V
16649.750	51.5	-27.5	41.4	37.71	68.3	16.8	H

Channel 48

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5176.200	54.2	-25.8	34.3	45.66	68.3	14.1	V
5299.400	54.4	-25.8	34.4	45.77	68.3	13.9	V
10479.300	45.2	-33.1	37.5	40.87	68.3	23.1	V
15720.800	49.1	-28.5	40.3	37.23	74.0	24.9	V
16937.400	51.6	-27.1	41.6	37.07	68.3	16.7	H
17079.850	52.0	-27.0	41.6	37.41	68.3	16.3	H

Channel 52

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5224.400	53.4	-25.8	34.3	44.79	74.0	20.6	V
5298.000	53.8	-25.8	34.4	45.16	74.0	20.2	V
10520.000	44.6	-33.1	37.5	40.18	68.3	23.7	H
15780.200	47.4	-28.4	40.4	35.36	74.0	26.6	V
16934.650	51.8	-27.1	41.6	37.29	68.3	16.5	H
17650.200	52.1	-26.6	41.0	37.74	68.3	16.2	H

Channel 56

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5248.400	53.9	-25.8	34.4	45.32	68.3	14.4	V
5319.800	54.5	-25.8	34.4	45.82	68.3	13.8	V
10560.150	45.0	-33.2	37.5	40.63	68.3	23.3	H
15840.150	49.2	-28.2	40.5	36.85	74.0	24.8	H
16998.450	52.0	-27.1	41.7	37.40	68.3	16.3	V
17452.750	51.4	-26.8	41.0	37.20	68.3	16.9	H

Channel 64

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5359.452	60.6	-25.8	34.5	51.91	74.0	13.4	V
5372.277	58.5	-25.7	34.5	49.74	74.0	15.5	V
10639.900	43.5	-33.3	37.6	39.22	74.0	30.5	H
15960.500	49.2	-27.6	40.6	36.22	74.0	24.8	H
16683.300	52.1	-27.5	41.4	38.17	68.3	16.2	H
17026.500	52.2	-27.0	41.7	37.60	68.3	16.1	V

Channel 100

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5433.693	60.1	-25.5	34.5	51.07	74.0	13.9	V
5458.413	55.6	-25.3	34.6	46.39	74.0	18.4	V
11000.150	46.0	-32.7	37.8	40.92	74.0	28.0	H
16500.150	49.1	-27.6	41.2	35.47	68.3	19.2	V
17160.700	52.1	-26.9	41.4	37.59	68.3	16.2	V
17593.550	51.6	-26.7	41.0	37.34	68.3	16.7	H

Channel 120

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5569.200	55.8	-25.1	34.7	46.25	68.3	12.5	V
5636.000	56.7	-24.8	34.7	46.81	68.3	11.6	V
11199.800	45.6	-32.1	38.0	39.71	74.0	28.4	H
16799.900	48.8	-27.3	41.5	34.63	68.3	19.5	H
17032.550	52.0	-27.0	41.6	37.35	68.3	16.3	V
17272.900	52.1	-26.9	41.3	37.77	68.3	16.2	H

Channel 140

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5732.227	56.9	-24.8	34.8	46.91	68.3	11.4	V
5733.250	57.1	-24.8	34.8	47.03	68.3	11.2	V
11400.000	45.1	-32.3	38.1	39.31	74.0	28.9	H
17100.200	49.6	-27.0	41.5	35.03	68.3	18.7	H
17250.900	51.6	-26.9	41.3	37.22	68.3	16.7	H
17646.900	51.5	-26.7	41.0	37.17	68.3	16.8	V

802.11n-HT40
Channel 38

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5147.280	63.1	-25.7	34.3	54.53	74.0	10.9	V
5147.893	64.0	-25.7	34.3	55.45	74.0	10.0	V
10379.750	45.6	-33.1	37.5	41.23	68.3	22.7	V
15570.100	47.2	-28.8	40.1	35.87	74.0	26.8	V
16978.650	52.8	-27.1	41.7	38.25	68.3	15.5	V
17571.000	52.1	-26.7	41.0	37.88	68.3	16.2	H

Channel 46

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5174.600	54.0	-25.8	34.3	45.54	68.3	14.3	V
5276.200	56.0	-25.8	34.4	47.45	68.3	12.3	V
10460.050	44.8	-33.1	37.5	40.49	68.3	23.5	H
15690.000	47.7	-28.5	40.3	36.01	74.0	26.3	H
16832.350	52.2	-27.3	41.5	37.88	68.3	16.1	H
17034.750	52.5	-27.0	41.6	37.86	68.3	15.8	H

Channel 54

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5217.800	55.5	-25.8	34.3	46.96	74.0	18.5	V
5320.200	54.0	-25.8	34.4	45.36	74.0	20.0	V
10539.800	44.2	-33.2	37.5	39.87	68.3	24.1	H
15809.800	47.9	-28.3	40.4	35.82	74.0	26.1	H
16242.200	52.0	-27.7	40.9	38.77	68.3	16.3	H
16860.400	51.6	-27.2	41.6	37.28	68.3	16.7	V

Channel 62

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5366.310	62.5	-25.7	34.5	53.82	74.0	11.5	V
5368.659	60.4	-25.7	34.5	51.68	74.0	13.6	V
10620.100	43.1	-33.3	37.6	38.89	74.0	30.9	H
15929.800	49.3	-27.8	40.6	36.51	74.0	24.7	V
16936.850	51.9	-27.1	41.6	37.42	68.3	16.4	H
17157.400	51.9	-26.9	41.4	37.38	68.3	16.4	H

Channel 102

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5458.953	56.5	-25.3	34.6	47.24	74.0	17.5	V
5459.155	56.7	-25.3	34.6	47.46	74.0	17.3	V
11019.950	46.5	-32.6	37.8	41.35	74.0	27.5	H
16529.850	48.6	-27.6	41.2	34.97	68.3	19.7	V
17026.500	51.7	-27.0	41.7	37.07	68.3	16.6	H
17650.200	51.1	-26.6	41.0	36.76	68.3	17.2	H

Channel 118

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5522.400	54.6	-25.1	34.6	45.07	68.3	13.7	V
5670.800	56.0	-24.7	34.8	45.98	68.3	12.3	V
11180.000	45.5	-32.1	37.9	39.61	74.0	28.5	V
16770.200	49.5	-27.3	41.5	35.38	68.3	18.8	H
17062.250	51.2	-27.0	41.6	36.63	68.3	17.1	H
17544.050	51.6	-26.7	40.9	37.34	68.3	16.7	V

Channel 134

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5729.813	64.0	-24.8	34.8	54.00	68.3	4.3	V
5735.500	57.1	-24.8	34.8	47.09	68.3	11.2	V
11340.050	45.5	-32.2	38.1	39.59	74.0	28.5	V
17010.000	50.1	-27.1	41.7	35.47	68.3	18.2	H
17320.200	51.8	-26.9	41.2	37.49	68.3	16.5	V
17663.400	51.9	-26.6	41.0	37.45	68.3	16.4	V

802.11ac-HT40

Channel 38

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5115.167	56.9	-25.6	34.2	48.27	68.3	11.4	V
5143.710	64.8	-25.7	34.2	56.21	68.3	3.5	V
10380.850	45.2	-33.1	37.5	40.90	68.3	23.1	H
15570.650	48.3	-28.8	40.1	36.99	74.0	25.7	H
16746.000	52.6	-27.4	41.4	38.54	68.3	15.7	H
17040.800	52.1	-27.0	41.6	37.45	68.3	16.2	H

Channel 46

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5224.600	53.9	-25.8	34.3	45.33	74.0	20.1	V
5328.000	54.5	-25.8	34.4	45.88	74.0	19.5	V
10460.050	44.6	-33.1	37.5	40.21	68.3	23.7	H
15690.000	48.2	-28.5	40.3	36.47	74.0	25.8	H
17019.900	51.8	-27.1	41.7	37.16	68.3	16.5	H
17155.200	51.9	-26.9	41.4	37.36	68.3	16.4	V

Channel 54

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5195.400	55.4	-25.8	34.3	46.90	74.0	18.6	V
5328.200	54.7	-25.8	34.4	46.00	74.0	19.3	V
10539.800	45.1	-33.2	37.5	40.77	68.3	23.2	H
15809.900	50.5	-28.3	40.4	38.38	74.0	23.5	H
16960.500	52.0	-27.1	41.7	37.49	68.3	16.3	V
17054.000	51.8	-27.0	41.6	37.25	68.3	16.5	V

Channel 62

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5370.779	61.3	-25.7	34.5	52.59	74.0	12.7	V
5374.572	61.3	-25.7	34.5	52.53	74.0	12.7	V
10617.350	45.8	-33.3	37.6	41.51	74.0	28.2	V
15929.800	49.8	-27.8	40.6	36.93	74.0	24.3	H
17071.050	52.9	-27.0	41.6	38.27	68.3	15.4	H
17357.600	52.3	-26.8	41.1	38.01	68.3	16.0	H

Channel 102

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5443.968	61.2	-25.4	34.5	52.10	74.0	12.8	V
5459.118	55.4	-25.3	34.6	46.13	74.0	18.6	V
11019.950	46.0	-32.6	37.8	40.81	74.0	28.0	V
16529.850	49.1	-27.6	41.2	35.50	68.3	19.2	V
17008.900	51.2	-27.1	41.7	36.61	68.3	17.1	V
17495.100	51.5	-26.7	40.9	37.30	68.3	16.8	V

Channel 118

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5539.600	53.7	-25.1	34.6	44.15	68.3	14.6	V
5632.400	55.3	-24.8	34.7	45.37	68.3	13.0	V
11180.000	45.1	-32.1	37.9	39.24	74.0	28.9	V
16770.200	48.8	-27.3	41.5	34.61	68.3	19.6	V
17127.700	51.9	-26.9	41.5	37.31	68.3	16.4	V
17668.350	52.1	-26.6	41.0	37.72	68.3	16.2	V

Channel 134

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5730.113	56.5	-24.8	34.8	46.51	68.3	11.8	V
5730.150	56.4	-24.8	34.8	46.40	68.3	11.9	V
11340.050	45.1	-32.2	38.1	39.26	74.0	28.9	H
17010.000	51.2	-27.1	41.7	36.62	68.3	17.1	V
17337.800	51.2	-26.8	41.2	36.93	68.3	17.1	V
17671.650	51.3	-26.6	41.0	36.86	68.3	17.0	H

802.11ac-HT80

Channel 42

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5146.475	61.2	-25.7	34.3	52.63	74.0	12.8	V
5149.590	59.9	-25.7	34.3	51.32	74.0	14.1	V
10419.900	44.3	-33.2	37.5	39.97	68.3	24.0	H
15630.050	47.9	-28.6	40.2	36.36	74.0	26.1	H
16845.550	51.8	-27.2	41.5	37.52	68.3	16.5	H
17229.450	51.8	-26.9	41.3	37.33	68.3	16.6	V

Channel 58

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5221.200	56.6	-25.8	34.3	48.08	74.0	17.4	V
5354.200	55.9	-25.8	34.5	47.17	74.0	18.1	V
10578.850	45.6	-33.2	37.5	41.31	68.3	22.7	H
15869.850	49.6	-28.0	40.5	37.15	68.3	18.7	H
17026.500	52.7	-27.0	41.7	38.07	68.3	15.6	V
17166.200	52.2	-26.9	41.4	37.69	68.3	16.1	H

Channel 106

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5455.503	59.7	-25.4	34.6	50.53	74.0	14.3	V
5457.910	59.7	-25.3	34.6	50.47	74.0	14.3	V
11059.550	46.5	-32.5	37.8	41.11	68.3	21.8	H
16589.250	49.6	-27.6	41.3	35.89	68.3	18.7	H
16638.750	51.5	-27.6	41.3	37.68	68.3	16.8	H
17040.800	52.3	-27.0	41.6	37.68	68.3	16.0	H

Sample calculation: 802.11ac 80MHz CH106–Peak, 5455.503MHz

$$\text{Peak ERP} = P_{\text{Mea}}(50.53 \text{ dBuV/m}) + \text{Cable Loss}(-25.40\text{dB}) + \text{Antenna Factor}(34.6\text{dB/m}) = 59.7 \text{ dBuV/m}$$

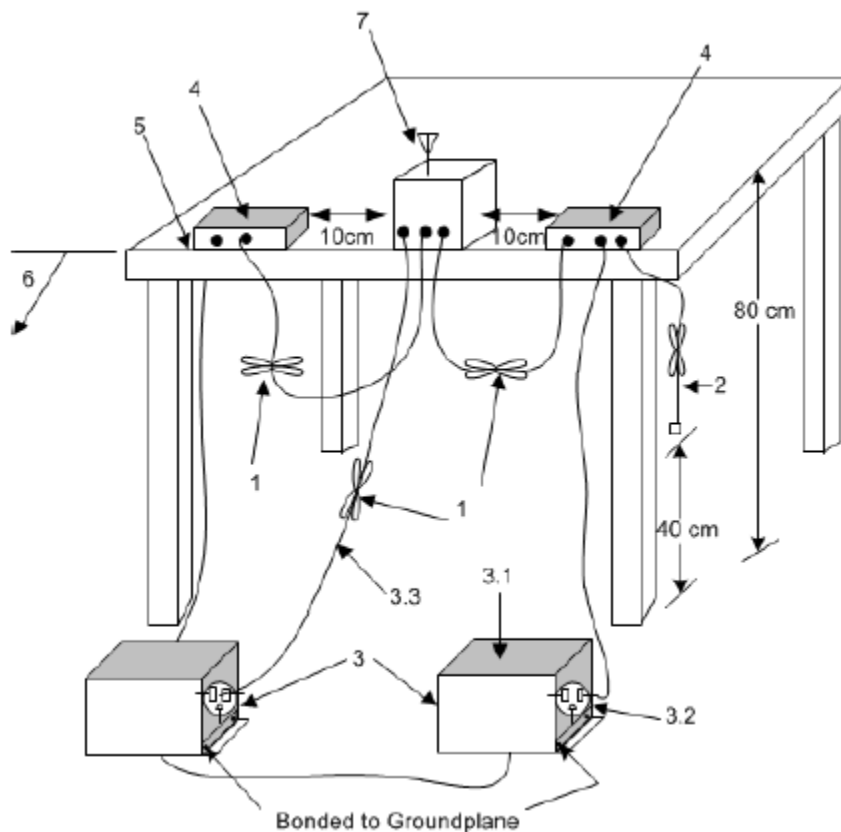
A.7. AC Powerline Conducted Emission (150kHz- 30MHz)

Method of Measurement: See ANSI C63.10-clause 6.2

Setup:

A stand-alone EUT shall be placed in the center along the back edge of the tabletop. For multiunit tabletop systems, the EUT shall be centered laterally (left to right facing the tabletop) on the tabletop and its rear shall be flush with the rear of the table.

Accessories that are part of an EUT system tested on a tabletop shall be placed in a test arrangement on one or both sides of the host with a 10 cm separation between the nearest points of the cabinets. The rear of the host and accessories shall be flush with the back of the supporting tabletop unless that would not be typical of normal use. If more than two accessories are present, then an equipment test arrangement shall be chosen that maintains 10 cm spacing between cabinets unless the equipment is normally located closer together.



Exploratory ac power-line conducted emission measurements

Exploratory measurements shall be used to identify the frequency of the emission that has the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable positions, and with a typical system equipment configuration and arrangement. For each mode of operation and for each ac power current-carrying conductor, cable manipulation shall be performed within the range of likely configurations. For this measurement or series of measurements, the frequency spectrum of interest shall be monitored looking for the emission that has the highest amplitude relative to the limit. Once that emission is found for each current-carrying conductor of each power cord associated with the EUT (but not the cords associated with non-EUT equipment in the overall system), the one configuration and arrangement and mode of operation that produces the emission closest to the limit over all of the measured conductors shall be recorded.

Final ac power-line conducted emission measurements

Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT. If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT

mode of operation. If the EUT is composed of equipment units that have their own separate ac power connections (e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network), then each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be measured separately. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.

Test Condition:

Voltage (V)	Frequency (Hz)
120	60

Measurement Result and limit:

EUT ID: UT76a
WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dBμV)	Result (dBμV)		Conclusion
		With charger		
		11a mode	Idle	
0.15 to 0.5	66 to 56	Fig.57	Fig.58	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 (dBμV)	Result (dBμV)		Conclusion
		With charger		
		11a mode	Idle	
0.15 to 0.5	56 to 46	Fig.57	Fig.58	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:

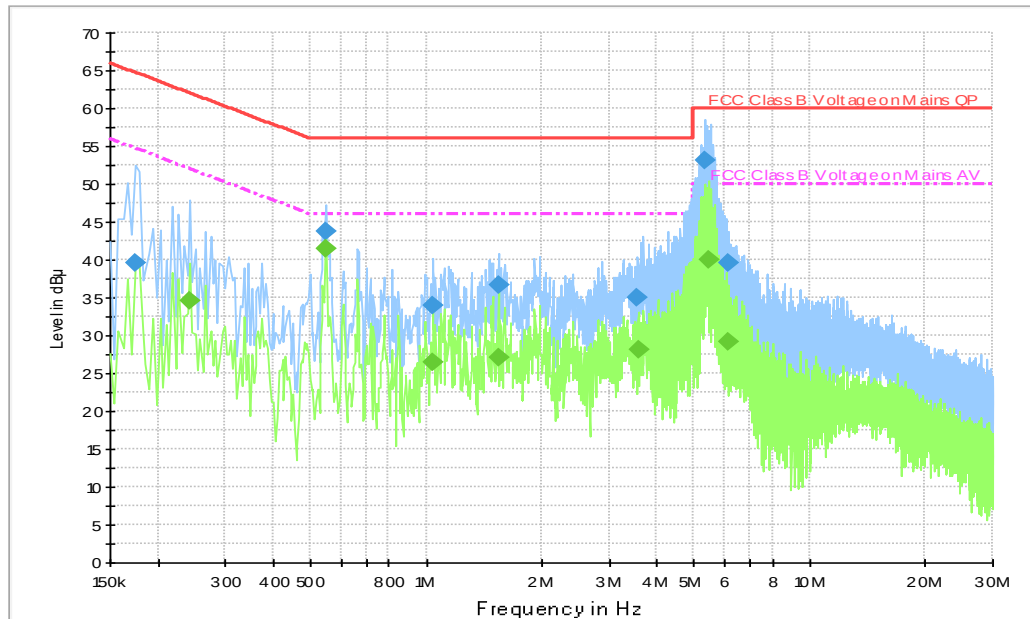


Fig.57 Conducted Emission(802.11a, Ch40, TX) ,

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.550000	43.8	N	19.8	12.2	56.0
1.042000	33.9	L1	19.8	22.1	56.0
1.546000	36.8	L1	19.7	19.2	56.0
3.562000	35.0	L1	19.6	21.0	56.0
5.338000	53.2	L1	19.6	6.8	60.0
6.126000	39.7	L1	19.7	20.3	60.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.242000	34.7	L1	19.8	17.4	52.0
0.546000	41.4	L1	19.7	4.6	46.0
1.042000	26.5	L1	19.8	19.5	46.0
1.542000	27.0	L1	19.7	19.0	46.0
3.566000	28.2	L1	19.6	17.8	46.0
5.454000	39.9	L1	19.6	10.1	50.0

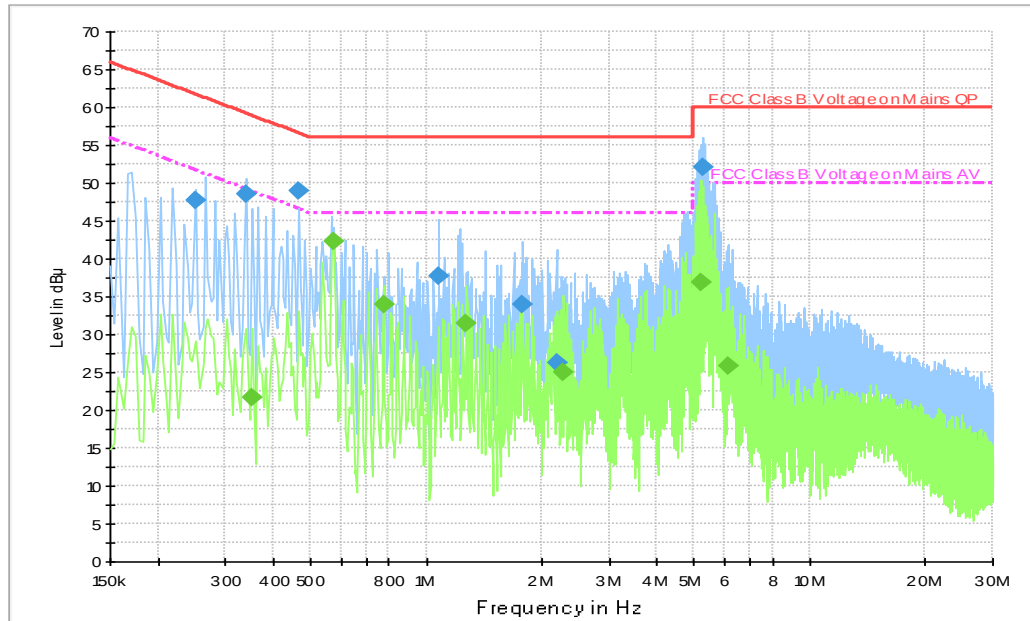


Fig.58 Conducted Emission(802.11a, IDLE)

Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.250000	47.7	N	19.7	14.0	61.8
0.338000	48.4	L1	19.8	10.8	59.3
0.466000	48.9	N	19.8	7.6	56.6
1.078000	37.7	N	19.6	18.3	56.0
1.790000	33.9	N	19.7	22.1	56.0
5.274000	52.2	L1	19.6	7.8	60.0

Final Result 2

Frequency (MHz)	Average (dBuV)	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.574000	42.3	L1	19.7	3.7	46.0
0.774000	33.9	L1	19.7	12.1	46.0
1.274000	31.4	L1	19.7	14.6	46.0
2.286000	24.9	L1	19.6	21.1	46.0
5.202000	36.9	L1	19.6	13.1	50.0
6.138000	25.7	L1	19.7	24.3	50.0

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.59	17.16	P
	5200 MHz	Fig.60	17.16	P
	5240 MHz	Fig.61	17.16	P
802.11n HT20	5180 MHz	Fig.62	18.28	P
	5200 MHz	Fig.63	18.32	P
	5240 MHz	Fig.64	18.28	P
802.11n HT40	5190 MHz	Fig.65	36.32	P
	5230 MHz	Fig.66	36.32	P
802.11ac HT80	5210 MHz	Fig.67	75.68	P

Conclusion: PASS
Test graphs as below:

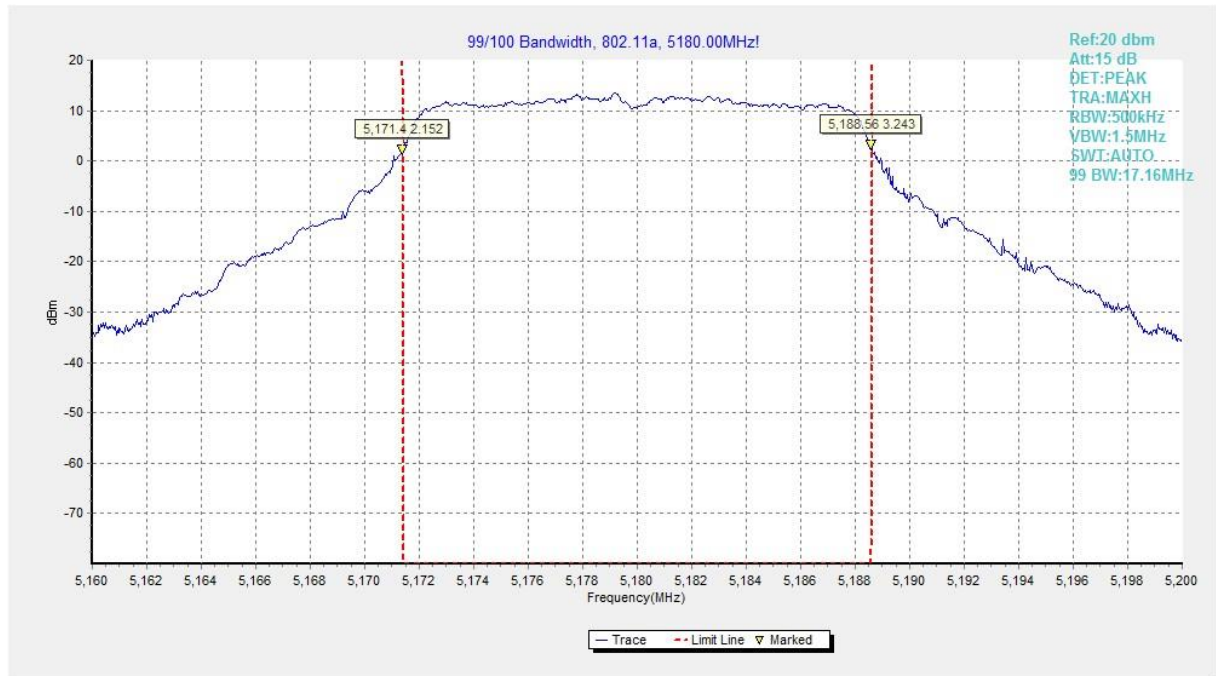


Fig.59 99% Occupied bandwidth (802.11a, 5180MHz)

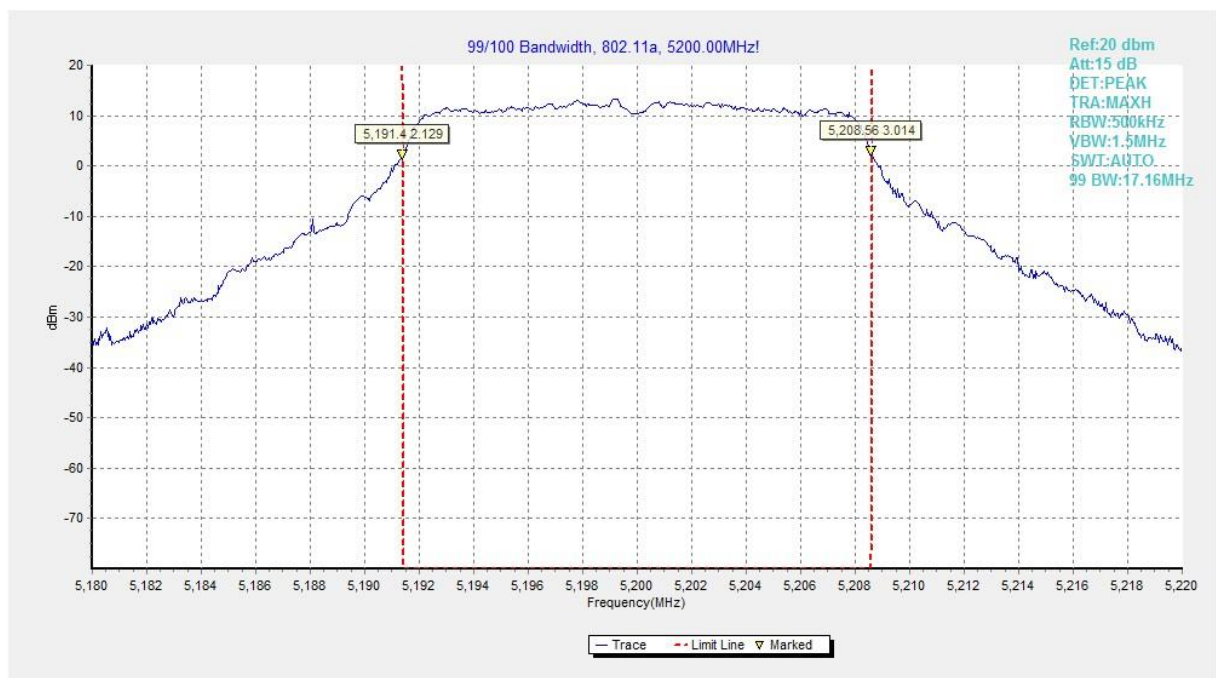


Fig.60 99% Occupied bandwidth (802.11a, 5200MHz)

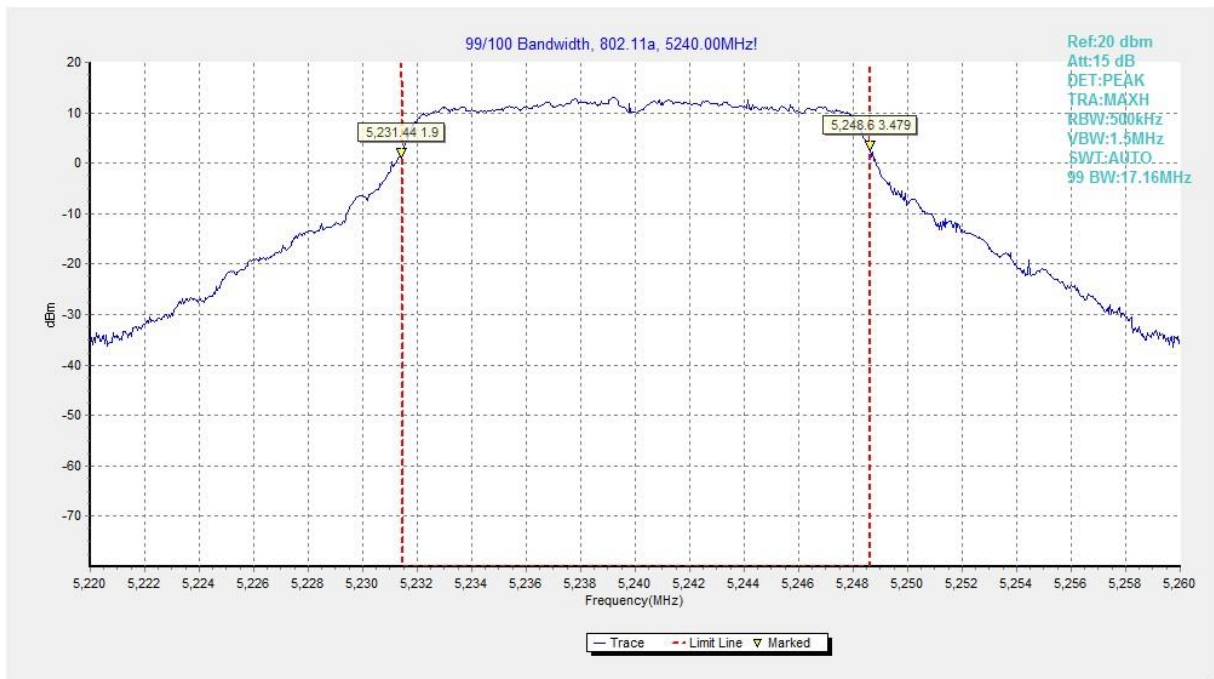


Fig.61 99% Occupied bandwidth (802.11a, 5240MHz)

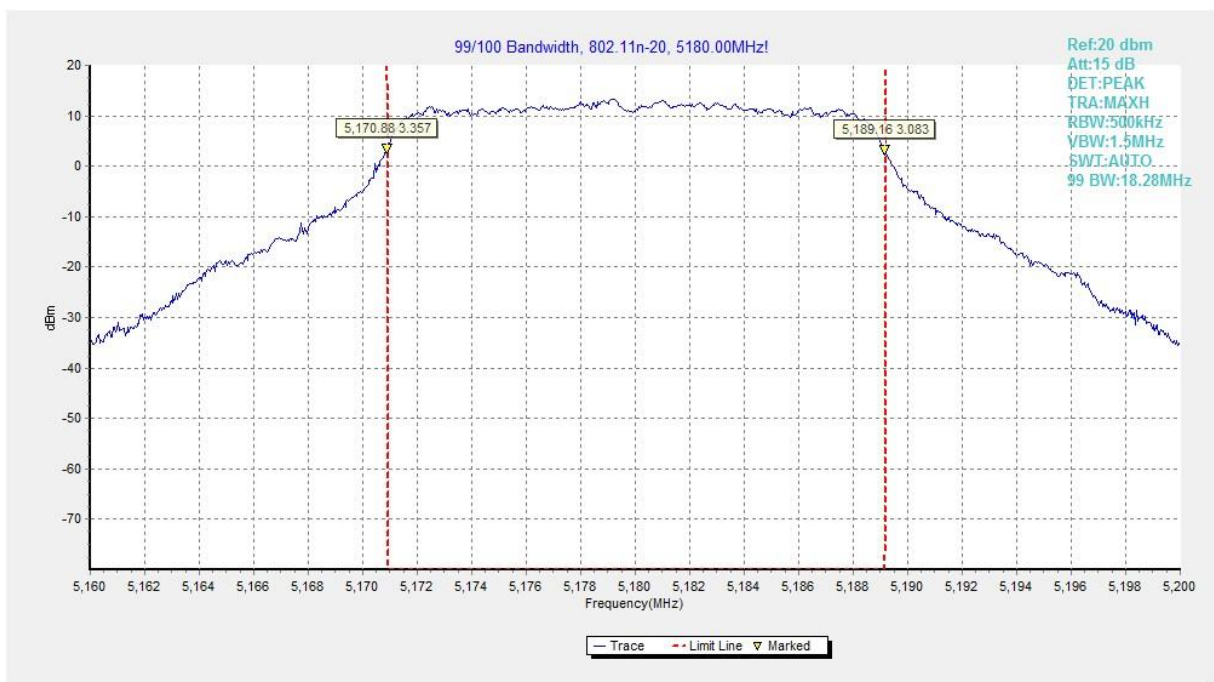


Fig.62 99% Occupied bandwidth (802.11n-HT20, 5180MHz)

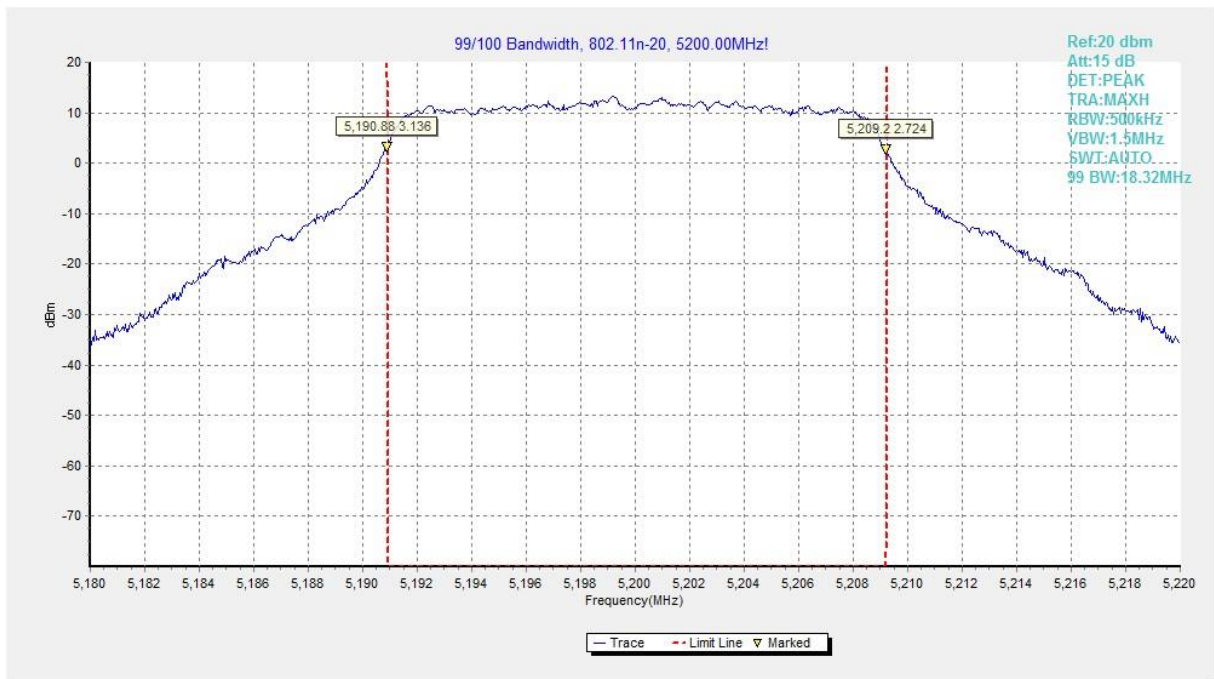


Fig.63 99% Occupied bandwidth (802.11n-HT20, 5200MHz)

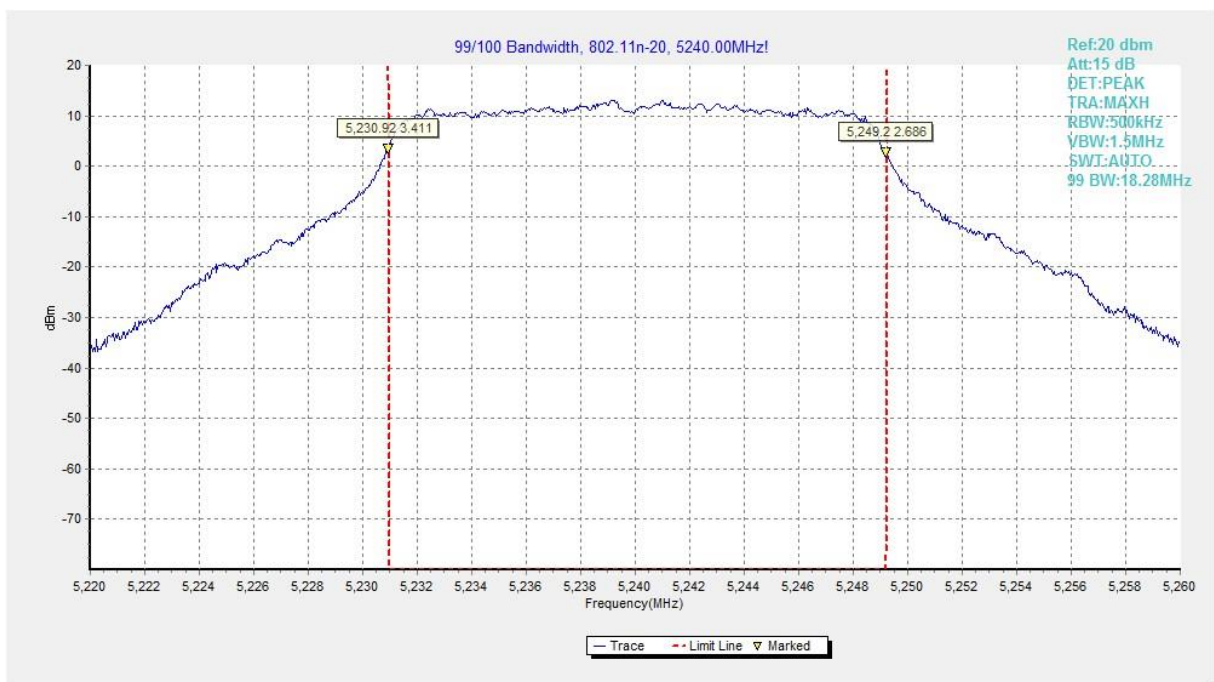


Fig.64 99% Occupied bandwidth (802.11n-HT20, 5240MHz)

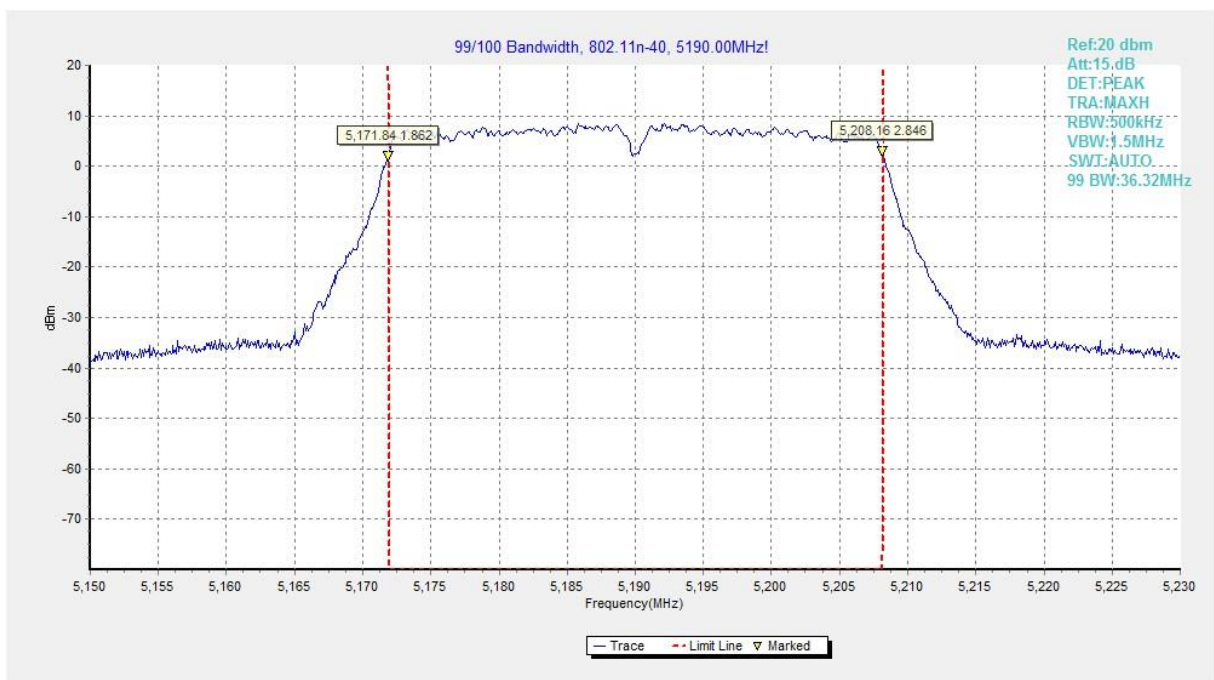


Fig.65 99% Occupied bandwidth (802.11n-HT40, 5190MHz)

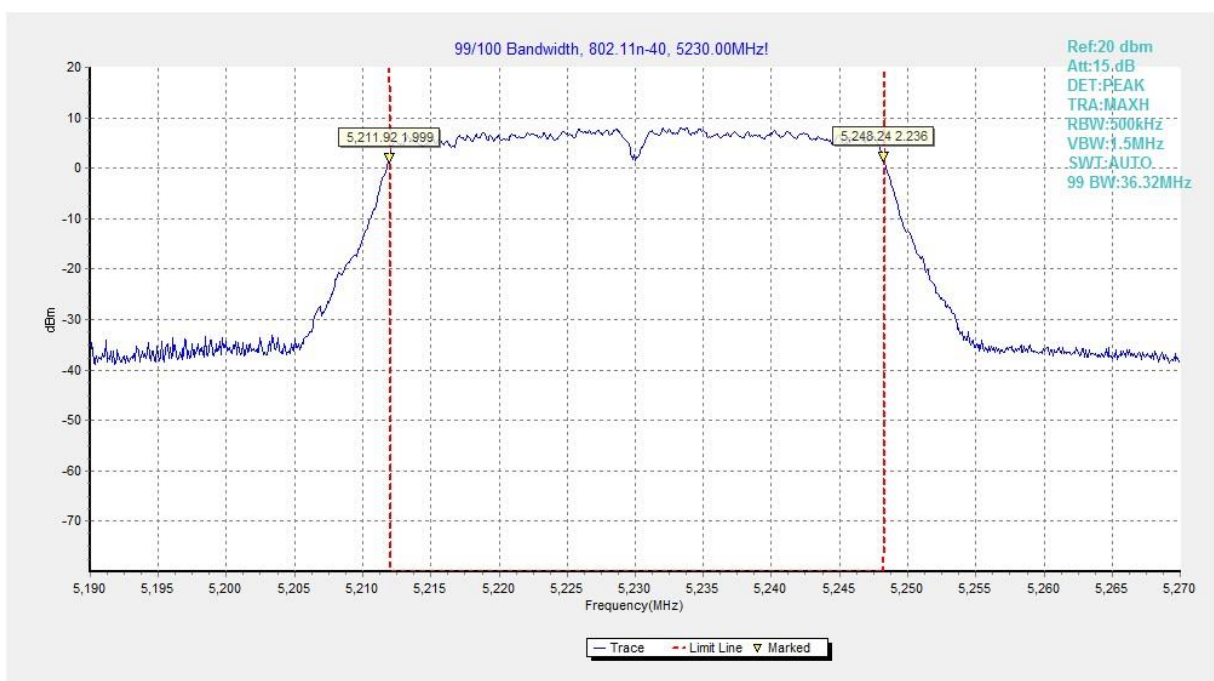


Fig.66 99% Occupied bandwidth (802.11n-HT40, 5230MHz)

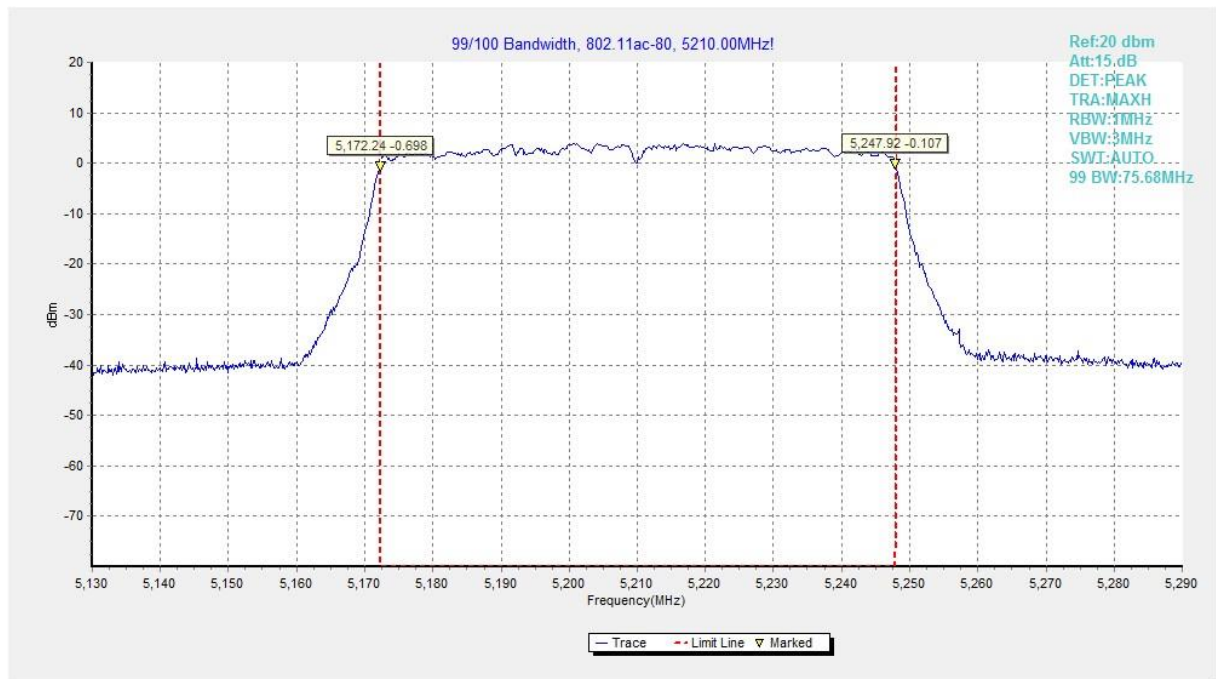


Fig.67 99% Occupied bandwidth (802.11ac-HT80, 5210MHz)

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: EUT parameters

Disclaimer: The antenna gain and worse case provided by the client may affect the validity of the measurement results in this report, and the client shall bear the impact and consequences arising therefrom.

ANNEX C: Accreditation Certificate

United States Department of Commerce National Institute of Standards and Technology NVLAP[®]  ilac-MRA	
Certificate of Accreditation to ISO/IEC 17025:2017	
NVLAP LAB CODE: 600118-0	
Telecommunication Technology Labs, CAICT Beijing China	
<i>is accredited by the National Voluntary Laboratory Accreditation Program for specific services, listed on the Scope of Accreditation, for:</i>	
Electromagnetic Compatibility & Telecommunications	
<i>This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated January 2009).</i>	
2021-09-29 through 2022-09-30 <i>Effective Dates</i>	 DEPARTMENT OF COMMERCE UNITED STATES OF AMERICA  For the National Voluntary Laboratory Accreditation Program

*** END OF REPORT BODY ***