

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)
17992.800	58.01	-25.50	46.66	36.85	74.00	15.99	H
17995.000	57.60	-25.50	46.66	36.44	74.00	16.40	V
14400.800	51.88	-28.59	42.46	38.01	68.30	16.42	H
14370.000	50.75	-28.42	42.34	36.83	68.30	17.55	V
5111.000	56.37	-27.70	33.59	50.48	74.00	17.63	V
5110.600	56.35	-27.70	33.59	50.46	74.00	17.65	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)
17916.400	57.51	-25.50	46.66	36.35	74.00	16.49	H
17997.200	56.94	-25.50	46.66	35.78	74.00	17.06	V
14415.100	52.17	-28.59	42.46	38.30	68.30	16.13	H
14598.800	51.30	-27.29	41.90	36.69	68.30	17.00	V
5350.100	61.03	-27.43	34.01	54.45	74.00	12.97	V
5351.600	60.71	-27.43	34.01	54.13	74.00	13.29	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)
17982.400	57.73	-25.50	46.66	36.57	74.00	16.27	H
17973.000	57.70	-25.50	46.66	36.54	74.00	16.30	H
14411.800	51.34	-28.59	42.46	37.47	68.30	16.96	H
14346.900	50.96	-28.42	42.34	37.04	68.30	17.34	V
5455.200	61.60	-27.18	34.17	54.61	74.00	12.40	V
5462.900	61.29	-27.18	34.17	54.30	68.30	7.01	V

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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)
17982.400	57.15	-25.50	46.66	35.99	74.00	16.85	V
17981.800	57.07	-25.50	46.66	35.91	74.00	16.93	V
14701.100	51.93	-28.32	41.35	38.91	68.30	16.37	H
14531.700	51.56	-28.59	42.46	37.69	68.30	16.74	V
5119.700	51.16	-27.61	33.67	45.10	74.00	22.84	H
5148.100	51.00	-27.61	33.67	44.94	74.00	23.00	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)
17991.800	57.82	-25.50	46.66	36.66	74.00	16.18	V
17983.500	57.70	-25.50	46.66	36.54	74.00	16.30	H
14477.800	51.23	-28.59	42.46	37.36	74.00	22.77	H
14496.500	51.14	-28.59	42.46	37.27	74.00	22.86	H
11848.800	46.82	-31.85	39.05	39.62	74.00	27.18	V
11942.300	46.82	-31.48	39.09	39.21	74.00	27.18	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)
17983.000	57.68	-25.50	46.66	36.52	74.00	16.32	V
17997.200	57.14	-25.50	46.66	35.98	74.00	16.86	V
14784.100	51.45	-28.32	41.35	38.43	68.30	16.85	V
14313.400	51.28	-28.42	42.34	37.36	68.30	17.02	H
11845.500	47.63	-31.85	39.05	40.43	74.00	26.37	H
11832.300	46.72	-31.85	39.05	39.52	74.00	27.28	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)
17980.200	57.87	-25.50	46.66	36.71	74.00	16.13	V
17996.200	57.76	-25.50	46.66	36.60	74.00	16.24	V
14504.800	51.41	-28.59	42.46	37.54	68.30	16.89	V
14001.000	51.31	-29.44	41.66	39.09	68.30	16.99	V
10520.000	49.70	-32.99	38.27	44.41	68.30	18.60	V
10519.500	48.44	-32.99	38.27	43.15	68.30	19.86	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)
17974.200	57.69	-25.50	46.66	36.53	74.00	16.31	V
17989.000	57.08	-25.50	46.66	35.92	74.00	16.92	V
14345.200	51.25	-28.42	42.34	37.33	68.30	17.05	V
14431.600	51.04	-28.59	42.46	37.17	68.30	17.26	V
10560.100	49.60	-32.99	38.27	44.31	68.30	18.70	V
10559.600	49.08	-32.99	38.27	43.79	68.30	19.22	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)
17995.600	58.00	-25.50	46.66	36.84	74.00	16.00	V
17986.800	57.77	-25.50	46.66	36.61	74.00	16.23	V
14599.900	51.55	-27.29	41.90	36.94	68.30	16.75	V
14686.800	51.18	-28.32	41.35	38.16	68.30	17.12	V
5355.100	57.46	-27.43	34.01	50.88	74.00	16.54	V
5440.200	55.82	-27.18	34.17	48.83	74.00	18.18	V

Channel 100

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17979.700	57.54	-25.50	46.66	36.38	74.00	16.46	V
17993.400	57.53	-25.50	46.66	36.37	74.00	16.47	V
14297.400	51.80	-28.42	42.34	37.88	68.30	16.50	V
14501.500	51.40	-28.59	42.46	37.53	68.30	16.90	V
5371.400	55.93	-27.43	34.01	49.35	74.00	18.07	V
5465.500	55.37	-27.18	34.17	48.38	68.30	12.93	V

Channel 120

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17984.600	57.63	-25.50	46.66	36.47	74.00	16.37	V
17974.200	56.90	-25.50	46.66	35.74	74.00	17.10	V
14445.900	51.44	-28.59	42.46	37.57	68.30	16.86	V
14374.400	50.83	-28.42	42.34	36.91	68.30	17.47	V
11838.900	46.83	-31.85	39.05	39.63	74.00	27.17	V
11340.000	46.70	-32.42	38.79	40.33	74.00	27.30	V

Channel 140

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
17977.500	58.37	-25.50	46.66	37.21	74.00	15.63	V
17942.800	56.83	-25.50	46.66	35.67	74.00	17.17	V
14506.400	51.68	-28.59	42.46	37.81	68.30	16.62	V
14568.500	51.53	-27.29	41.90	36.92	68.30	16.77	V
5726.200	59.66	-27.07	34.31	52.42	68.30	8.64	V
5726.100	59.15	-27.07	34.31	51.91	68.30	9.15	V

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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)
17988.500	57.64	-25.50	46.66	36.48	74.00	16.36	H
17998.900	57.48	-25.50	46.66	36.32	74.00	16.52	V
14427.200	52.14	-28.59	42.46	38.27	68.30	16.16	H
14518.500	51.46	-28.59	42.46	37.59	68.30	16.84	H
5141.600	54.73	-27.61	33.67	48.67	74.00	19.27	V
5149.000	54.56	-27.61	33.67	48.50	74.00	19.44	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)
17982.400	57.90	-25.50	46.66	36.74	74.00	16.10	H
17975.200	57.60	-25.50	46.66	36.44	74.00	16.40	V
14116.500	51.45	-28.99	42.00	38.43	68.30	16.85	H
14406.300	51.29	-28.59	42.46	37.42	68.30	17.01	H
10954.000	47.12	-32.82	38.70	41.24	74.00	26.88	H
11714.000	46.96	-31.99	38.98	39.97	74.00	27.04	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)
17937.800	57.86	-25.50	46.66	36.70	74.00	16.14	V
17990.700	57.65	-25.50	46.66	36.49	74.00	16.35	V
14916.700	51.18	-28.59	40.79	38.98	68.30	17.12	V
14412.900	51.12	-28.59	42.46	37.25	68.30	17.18	V
10539.800	50.41	-32.99	38.27	45.12	68.30	17.89	V
10540.400	48.37	-32.99	38.27	43.08	68.30	19.93	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)
17989.500	57.36	-25.50	46.66	36.20	74.00	16.64	V
17980.200	57.32	-25.50	46.66	36.16	74.00	16.68	V
14378.800	51.04	-28.42	42.34	37.12	68.30	17.26	V
13758.400	50.99	-29.10	40.86	39.22	68.30	17.31	V
5351.200	58.17	-27.43	34.01	51.59	74.00	15.83	V
5352.100	57.60	-27.43	34.01	51.02	74.00	16.40	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)
17910.300	57.22	-25.50	46.66	36.06	74.00	16.78	V
17974.200	56.79	-25.50	46.66	35.63	74.00	17.21	V
14355.700	51.40	-28.42	42.34	37.48	68.30	16.90	V
14498.100	51.15	-28.59	42.46	37.28	74.00	22.85	V
5458.800	57.28	-27.18	34.17	50.29	74.00	16.72	V
5469.700	62.36	-27.18	34.17	55.37	68.30	5.94	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)
17985.200	56.96	-25.50	46.66	35.80	74.00	17.04	V
17976.300	56.91	-25.50	46.66	35.75	74.00	17.09	V
14718.100	51.21	-28.32	41.35	38.19	68.30	17.09	V
14476.700	51.18	-28.59	42.46	37.31	74.00	22.82	V
11921.400	46.76	-31.48	39.09	39.15	74.00	27.24	V
11981.900	46.15	-31.48	39.09	38.54	74.00	27.85	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)
17989.000	57.22	-25.50	46.66	36.06	74.00	16.78	V
17997.200	57.15	-25.50	46.66	35.99	74.00	16.85	V
14675.200	51.35	-27.29	41.90	36.74	68.30	16.95	V
14390.900	51.21	-28.42	42.34	37.29	68.30	17.09	V
5801.000	53.02	-27.07	34.33	45.76	68.30	15.28	V
5795.600	52.51	-27.07	34.33	45.25	68.30	15.79	V

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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)
17995.000	57.35	-25.50	46.66	36.19	74.00	16.65	H
17863.000	57.03	-25.50	46.66	35.87	74.00	16.97	H
14691.200	51.52	-28.32	41.35	38.50	68.30	16.78	H
14400.200	51.20	-28.59	42.46	37.33	68.30	17.10	V
5109.700	56.60	-27.70	33.59	50.71	74.00	17.40	V
5109.900	56.52	-27.70	33.59	50.63	74.00	17.48	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)
17991.800	57.88	-25.50	46.66	36.72	74.00	16.12	H
17990.100	57.57	-25.50	46.66	36.41	74.00	16.43	H
14430.000	51.92	-28.59	42.46	38.05	68.30	16.38	V
14432.700	51.54	-28.59	42.46	37.67	68.30	16.76	V
5364.600	60.07	-27.43	34.01	53.49	74.00	13.93	V
5362.400	60.03	-27.43	34.01	53.45	74.00	13.97	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)
17984.000	57.68	-25.50	46.66	36.52	74.00	16.32	H
17997.200	57.57	-25.50	46.66	36.41	74.00	16.43	V
14603.200	51.02	-27.29	41.90	36.41	68.30	17.28	V
14496.000	51.00	-28.59	42.46	37.13	74.00	23.00	V
5453.000	62.05	-27.18	34.17	55.06	74.00	11.95	V
5466.900	62.28	-27.18	34.17	55.29	68.30	6.02	V

Sample calculation: 802.11ax 80MHz CH106–Peak, 17984.000 MHz

$$\text{Peak ERP(dBm)} = P_{\text{Mea}}(57.68 \text{ dBuV/m}) + \text{Cable Loss}(-25.50) + \text{Antenna Factor}(46.66) = 36.52 \text{ dBuV/m}$$

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: EUT1

WLAN (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	66 to 56	Fig.231	Fig.232	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 μ V)	Result (dB μ V)		Conclusion
		With charger		
		802.11a	Idle	
0.15 to 0.5	56 to 46	Fig.231	Fig.232	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.

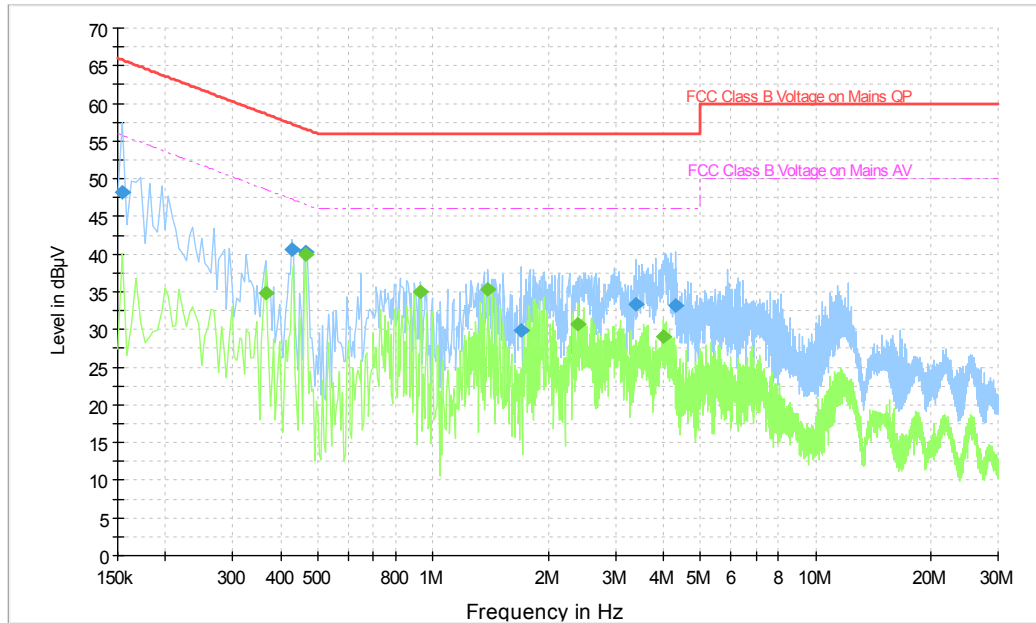


Fig.231 AC Powerline Conducted Emission- 802.11a

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	48.2	N	19.8	17.5	65.8
0.429000	40.5	L1	19.9	16.7	57.3
0.465000	40.2	N	20.0	16.4	56.6
1.702500	29.9	L1	19.5	26.1	56.0
3.403500	33.4	N	19.7	22.6	56.0
4.308000	33.3	L1	19.6	22.7	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.366000	34.8	L1	19.9	13.8	48.6
0.465000	39.9	N	20.0	6.7	46.6
0.928500	34.9	L1	19.6	11.1	46.0
1.392000	35.3	L1	19.5	10.7	46.0
2.386500	30.6	N	19.8	15.4	46.0
3.993000	29.0	L1	19.6	17.0	46.0

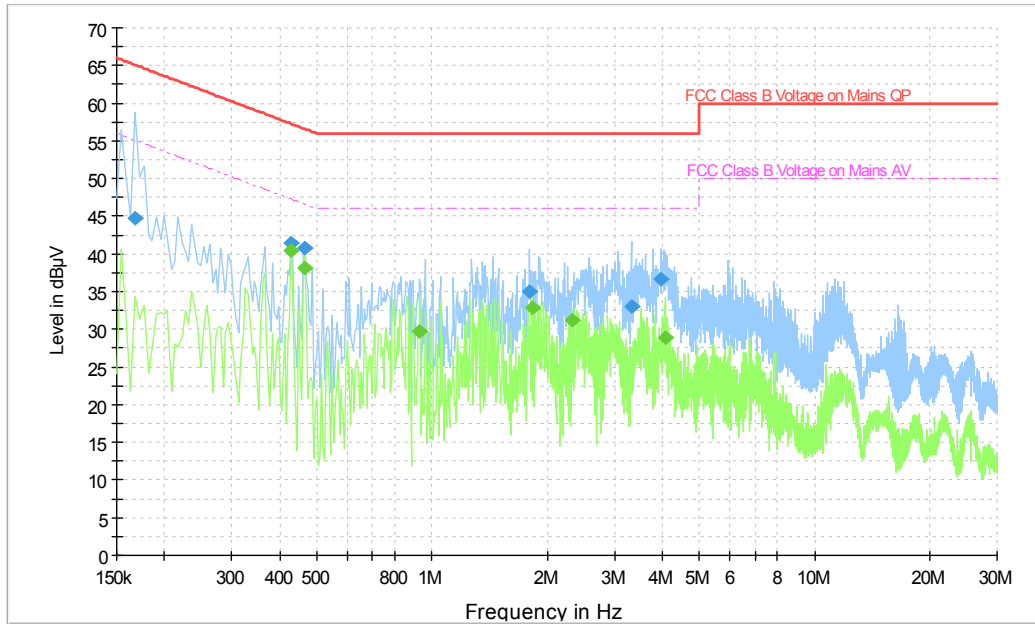


Fig.232 AC Powerline Conducted Emission-Idle

Note: The graphic result above is the maximum of the measurements for both phase line and neutral line.

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.168000	44.7	L1	20.0	20.4	65.1
0.429000	41.4	L1	19.9	15.9	57.3
0.465000	40.7	N	20.0	15.9	56.6
1.797000	35.0	L1	19.5	21.0	56.0
3.318000	33.1	N	19.7	22.9	56.0
3.970500	36.6	L1	19.6	19.4	56.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.429000	40.5	L1	19.9	6.8	47.3
0.465000	38.2	L1	19.9	8.4	46.6
0.928500	29.7	L1	19.6	16.3	46.0
1.824000	32.9	L1	19.5	13.1	46.0
2.319000	31.3	N	19.8	14.7	46.0
4.069500	28.9	L1	19.6	17.1	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:

SISO-W3

Mode	Frequency	99% Occupied bandwidth (MHz)		conclusion
802.11a	5180 MHz	Fig.233	16.76	P
	5200 MHz	Fig.234	16.76	P
	5240 MHz	Fig.235	16.76	P
802.11n HT20	5180 MHz	Fig.236	17.88	P
	5200 MHz	Fig.237	17.88	P
	5240 MHz	Fig.238	17.92	P
802.11n HT40	5190 MHz	Fig.239	36.08	P
	5230 MHz	Fig.240	36.16	P
802.11ac HT80	5210 MHz	Fig.241	76.64	P

SISO-W4

Mode	Frequency	99% Occupied bandwidth (MHz)		conclusion
		Fig.	Value	
802.11ax-HE20	5180 MHz	Fig.242	19.48	P
	5200 MHz	Fig.243	19.52	P
	5240 MHz	Fig.244	19.48	P
802.11ax-HE40	5190 MHz	Fig.245	38.08	P
	5230 MHz	Fig.246	38.08	P
802.11ax-HE80	5210 MHz	Fig.247	78.08	P

(W3&W4-W3)

Mode	Frequency	99% Occupied bandwidth (MHz)		conclusion
		Fig.	Value	
802.11a	5180 MHz	Fig.248	17.24	P
	5200 MHz	Fig.249	17.28	P
	5240 MHz	Fig.250	17.28	P
802.11n-HT20	5180 MHz	Fig.251	18.48	P
	5200 MHz	Fig.252	18.52	P
	5240 MHz	Fig.253	18.48	P
802.11ac-HT40	5190 MHz	Fig.254	36.72	P
	5230 MHz	Fig.255	36.80	P
802.11ac-HT80	5210 MHz	Fig.256	76.48	P

(W3&W4-W4)

Mode	Frequency	99% Occupied bandwidth (MHz)		conclusion
		Fig.	Value	
802.11ax-HE20	5180 MHz	Fig.257	19.40	P
	5200 MHz	Fig.258	19.40	P
	5240 MHz	Fig.259	19.56	P
802.11ax-HE40	5190 MHz	Fig.260	38.24	P
	5230 MHz	Fig.261	38.24	P
802.11ax-HE80	5210 MHz	Fig.262	77.92	P

(W2&W3&W4-W3)

Mode	Frequency	99% Occupied bandwidth (MHz)		conclusion
		Fig.	Value	
802.11a	5180 MHz	Fig.263	17.20	P
	5200 MHz	Fig.264	17.24	P
	5240 MHz	Fig.265	17.24	P
802.11n-HT20	5180 MHz	Fig.266	18.48	P
	5200 MHz	Fig.267	18.52	P

	5240 MHz	Fig.268	18.52	P
802.11ac- HT40	5190 MHz	Fig.269	36.80	P
	5230 MHz	Fig.270	36.64	P
802.11ac- HT80	5210 MHz	Fig.271	76.48	P

(W2&W3&W4-W4)

Mode	Frequency	99% Occupied bandwidth (MHz)		conclusion
		Fig.	Value	
802.11ax- HE20	5180 MHz	Fig.272	19.45	P
	5200 MHz	Fig.273	19.25	P
	5240 MHz	Fig.274	19.65	P
802.11ax- HE40	5190 MHz	Fig.275	38.10	P
	5230 MHz	Fig.276	38.26	P
802.11ax- HE80	5210 MHz	Fig.277	77.92	P

(W1&W2&W3&W4-W3)

Mode	Frequency	99% Occupied bandwidth (MHz)		conclusion
		Fig.	Value	
802.11a	5180 MHz	Fig.278	17.24	P
	5200 MHz	Fig.279	17.32	P
	5240 MHz	Fig.280	17.16	P
802.11n- HT20	5180 MHz	Fig.281	18.44	P
	5200 MHz	Fig.282	18.52	P
	5240 MHz	Fig.283	18.60	P
802.11ac- HT40	5190 MHz	Fig.284	36.80	P
	5230 MHz	Fig.285	36.64	P
802.11ac- HT80	5210 MHz	Fig.286	76.48	P

(W1&W2&W3&W4-W2)

Mode	Frequency	99% Occupied bandwidth (MHz)		conclusion
		Fig.	Value	
802.11ax- HE20	5180 MHz	Fig.287	19.54	P
	5200 MHz	Fig.288	19.51	P
	5240 MHz	Fig.289	19.55	P
802.11ax- HE40	5190 MHz	Fig.290	38.14	P
	5230 MHz	Fig.291	37.98	P
802.11ax- HE80	5210 MHz	Fig.292	77.59	P

Conclusion: PASS

Test graphs as below:

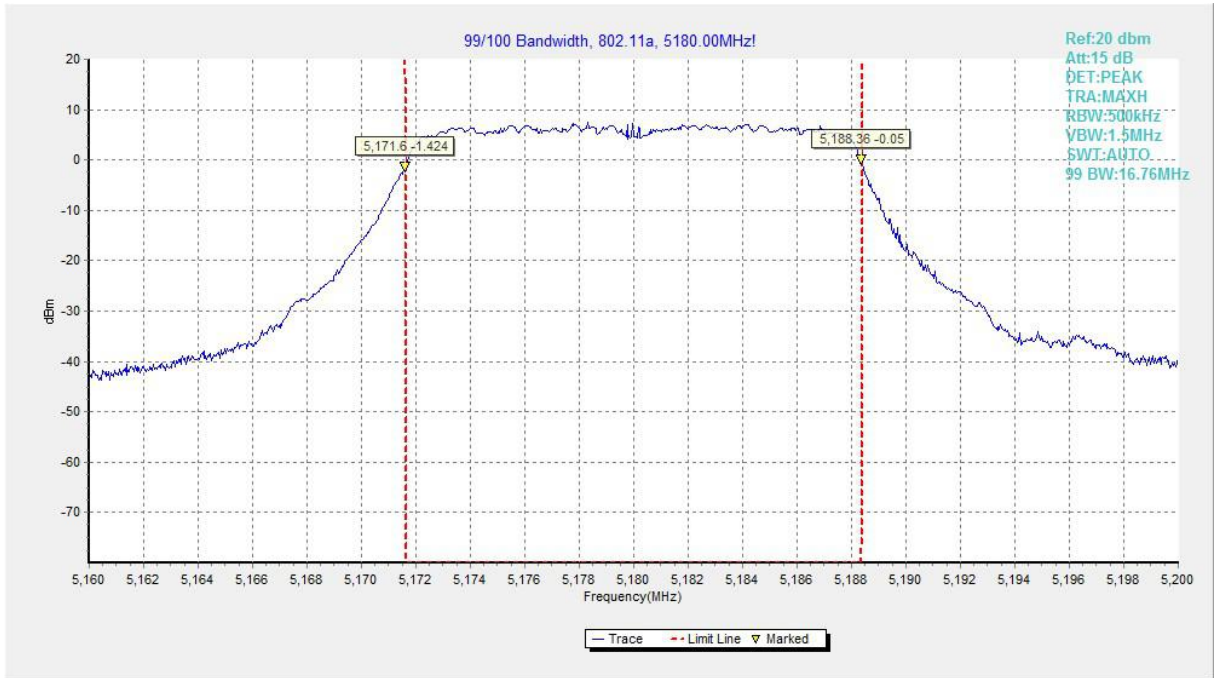


Fig.233 99% Occupied bandwidth (802.11a, 5180MHz)

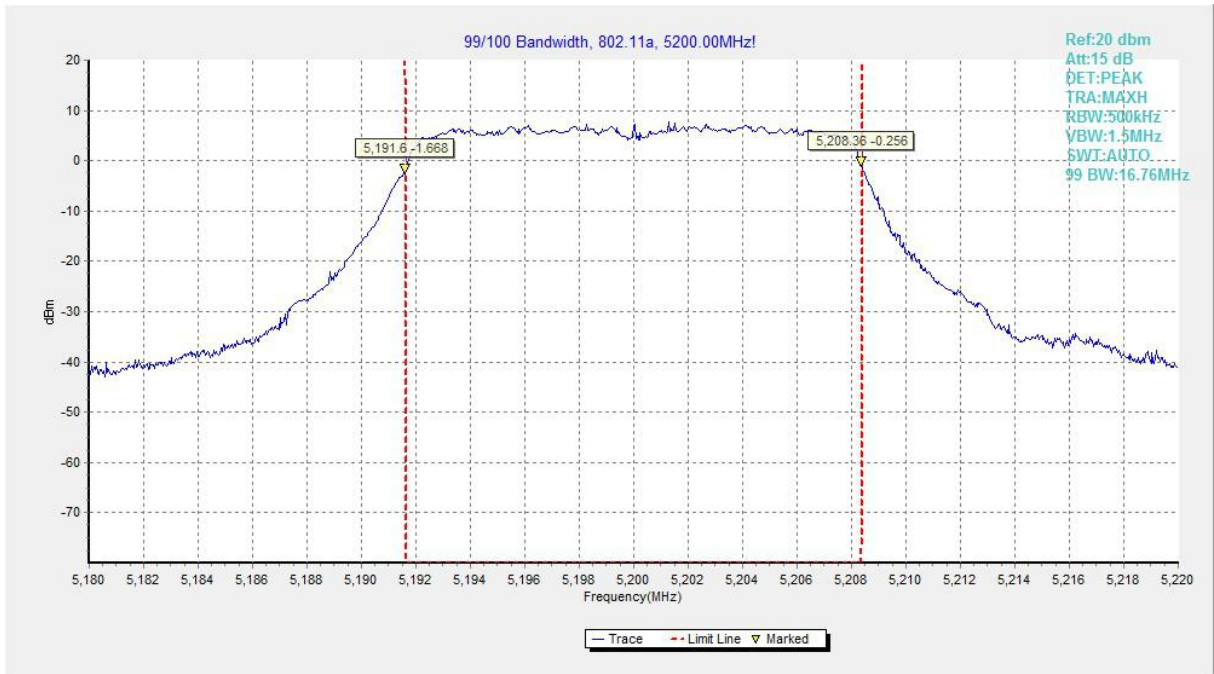


Fig.234 99% Occupied bandwidth (802.11a, 5200MHz)

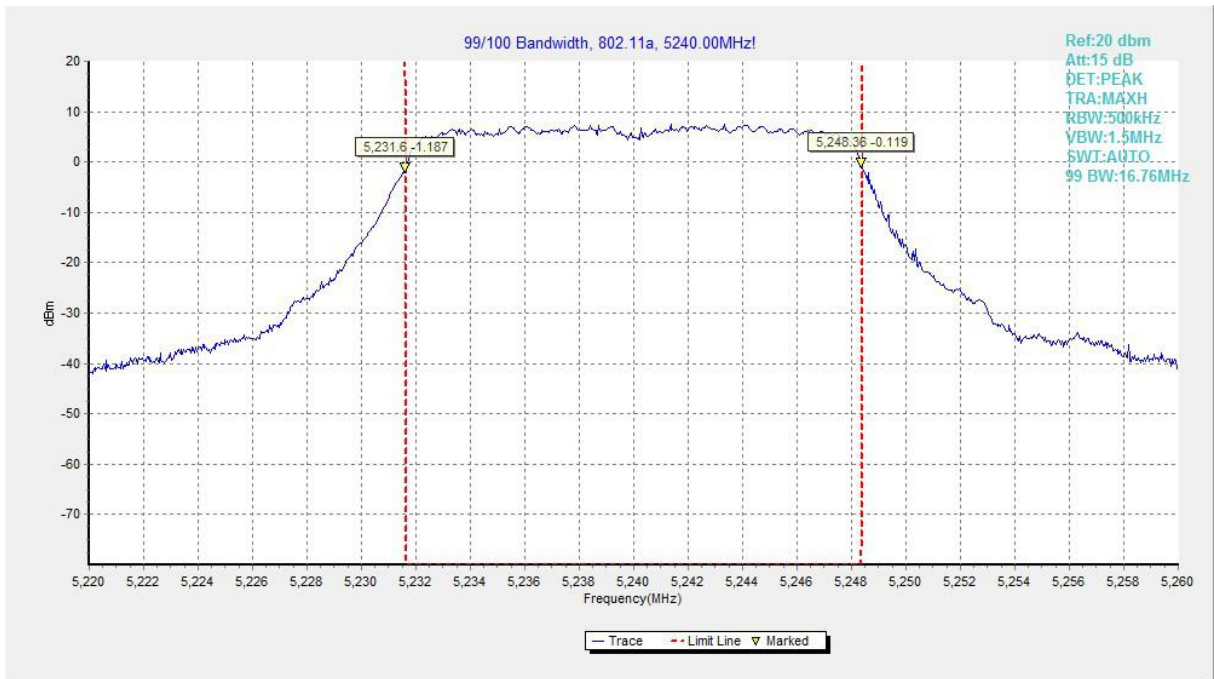


Fig.235 99% Occupied bandwidth (802.11a, 5240MHz)



Fig.236 99% Occupied bandwidth (802.11n-HT20, 5180MHz)

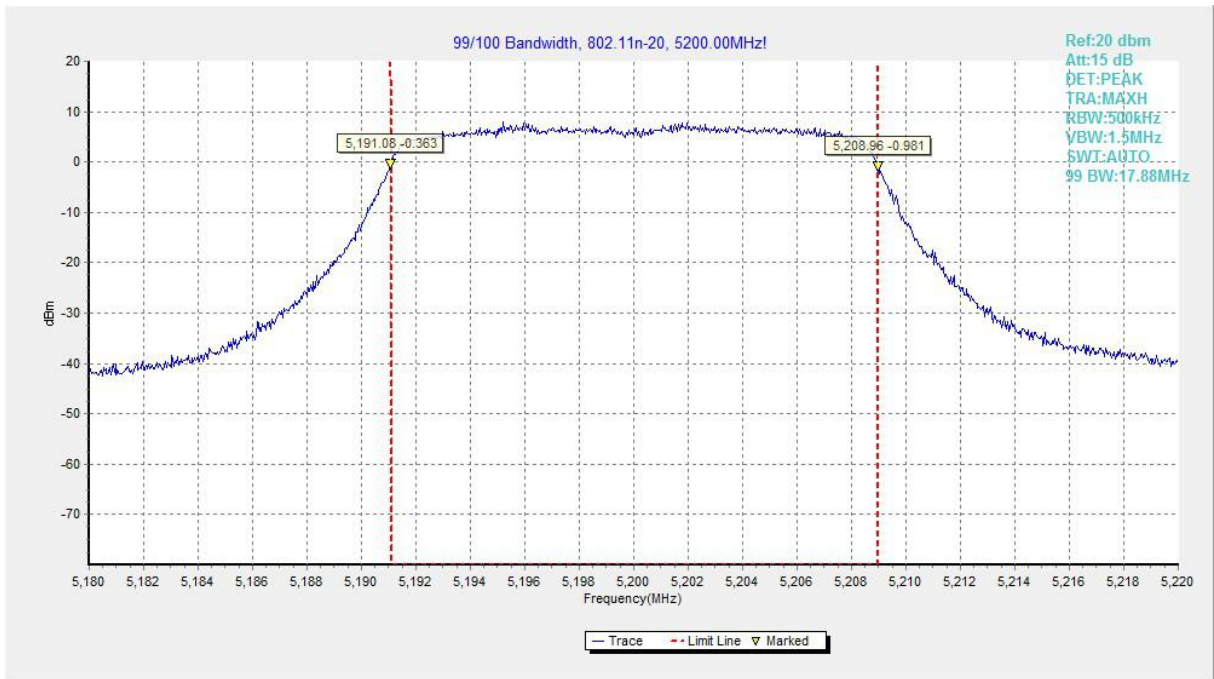


Fig.237 99% Occupied bandwidth (802.11n-HT20, 5200MHz)

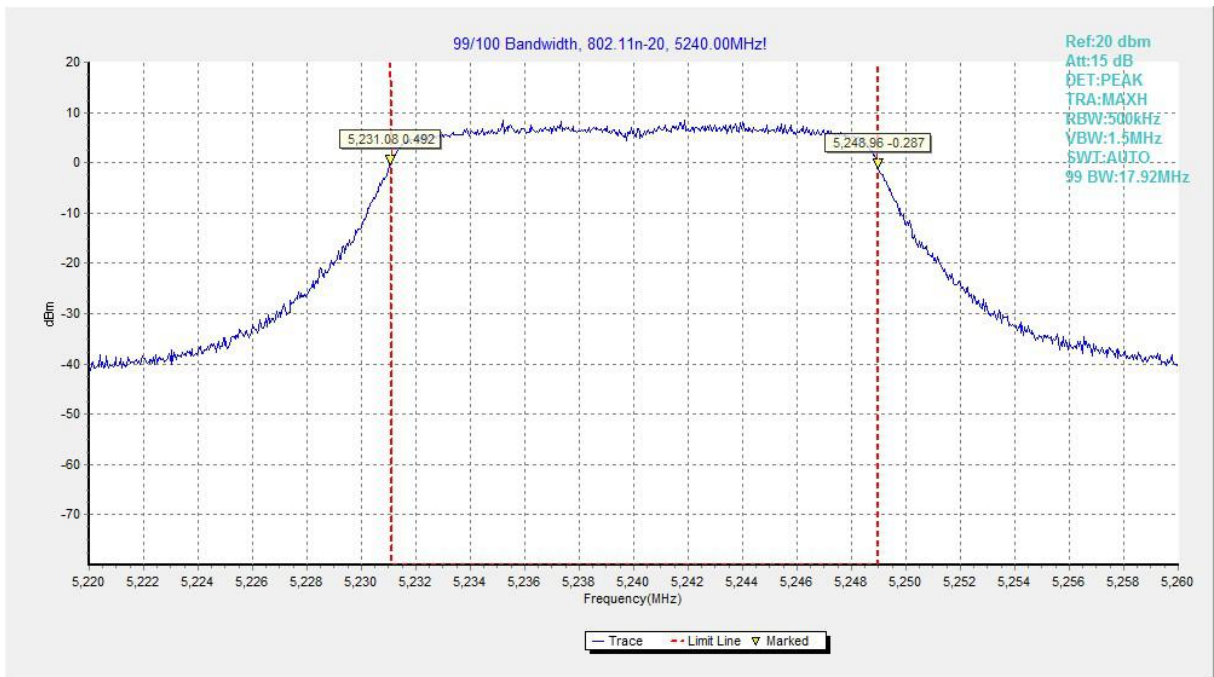


Fig.238 99% Occupied bandwidth (802.11n-HT20, 5240MHz)

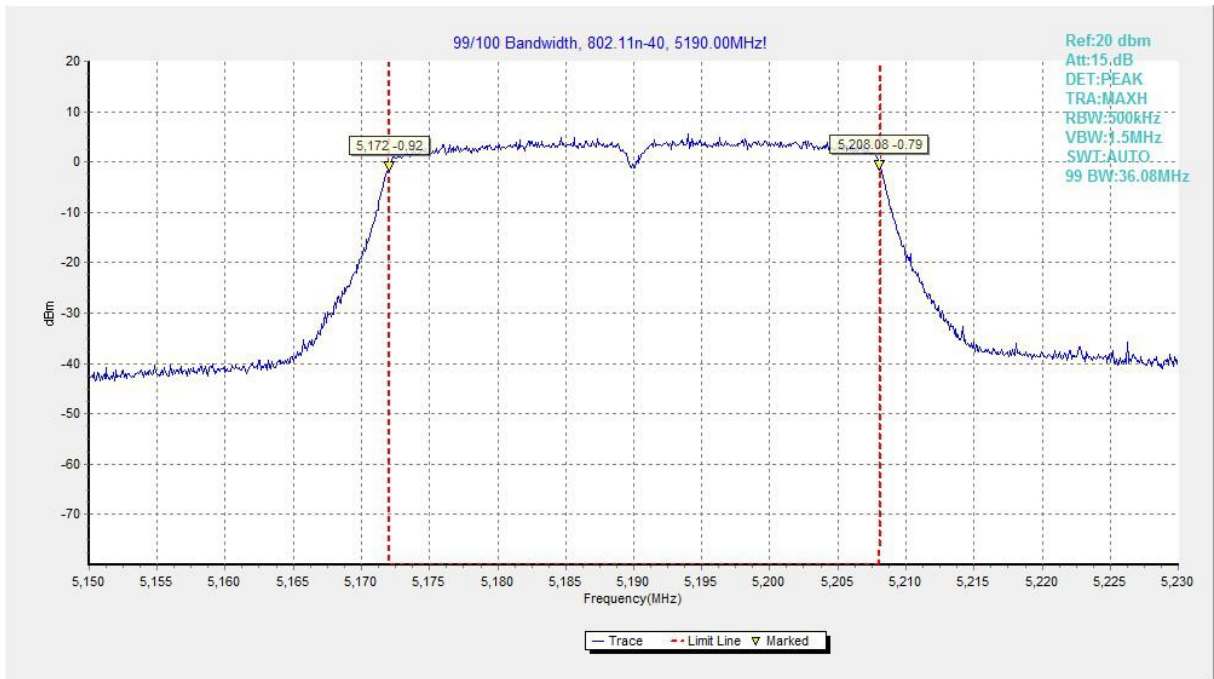


Fig.239 99% Occupied bandwidth (802.11n-HT40, 5190MHz)

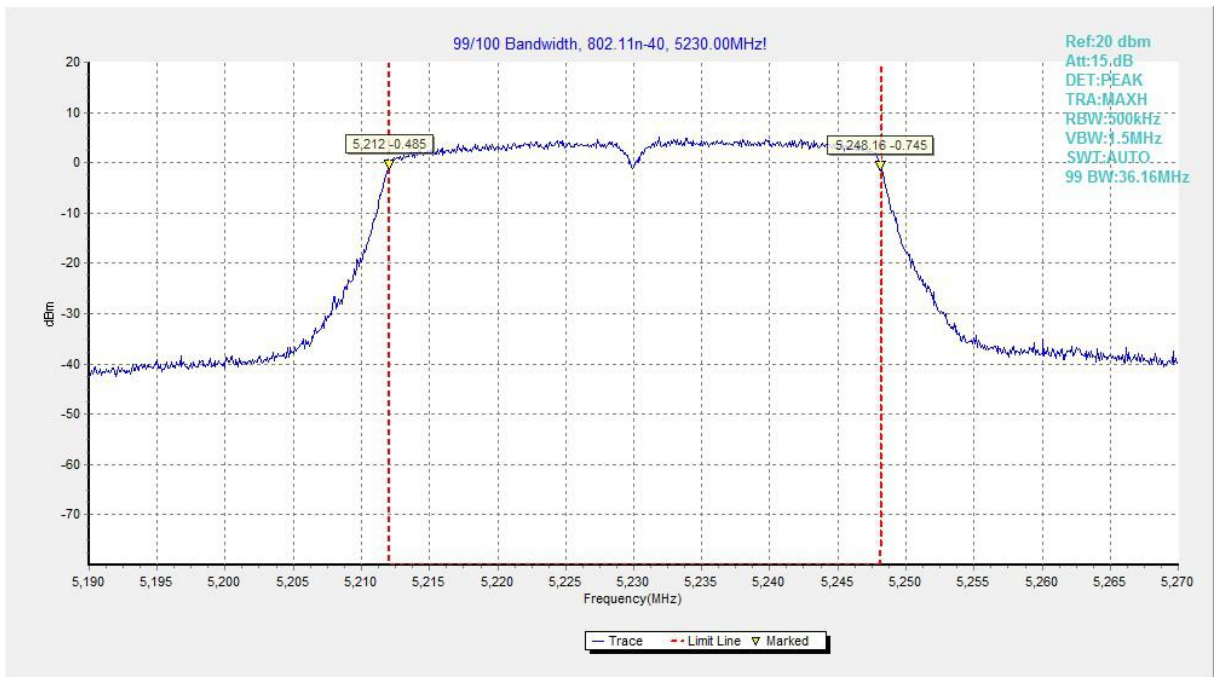


Fig.240 99% Occupied bandwidth (802.11n-HT40, 5230MHz)

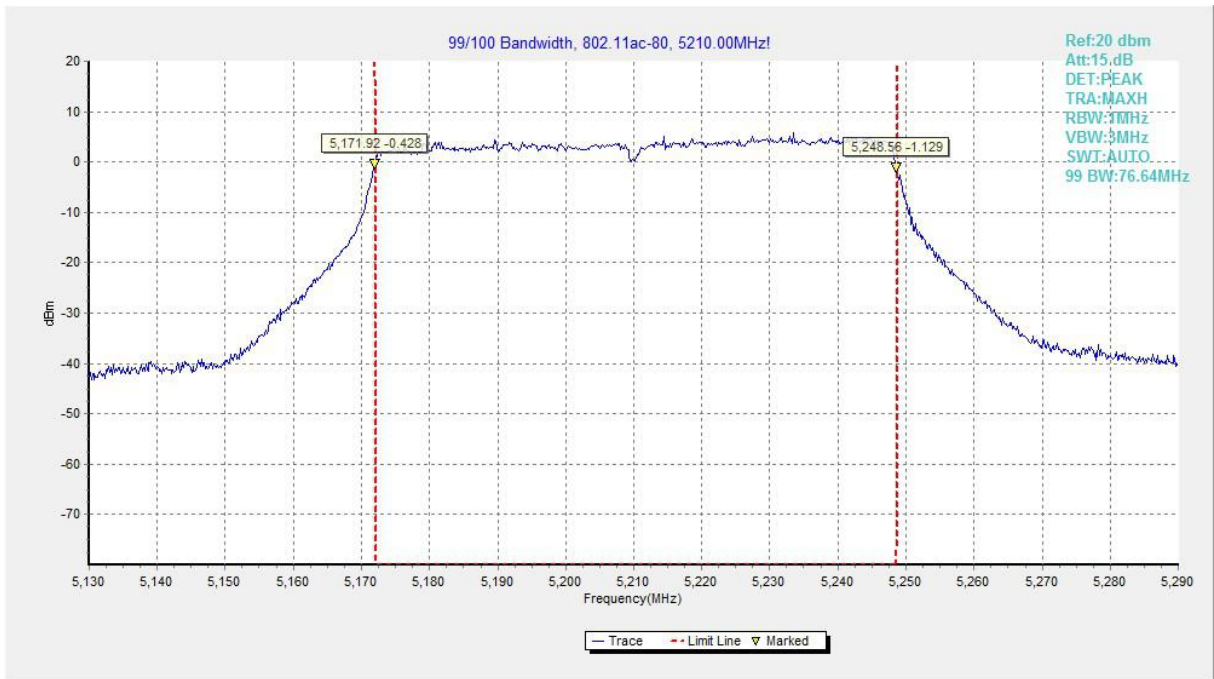


Fig.241 99% Occupied bandwidth (802.11ac-HT80, 5210MHz)

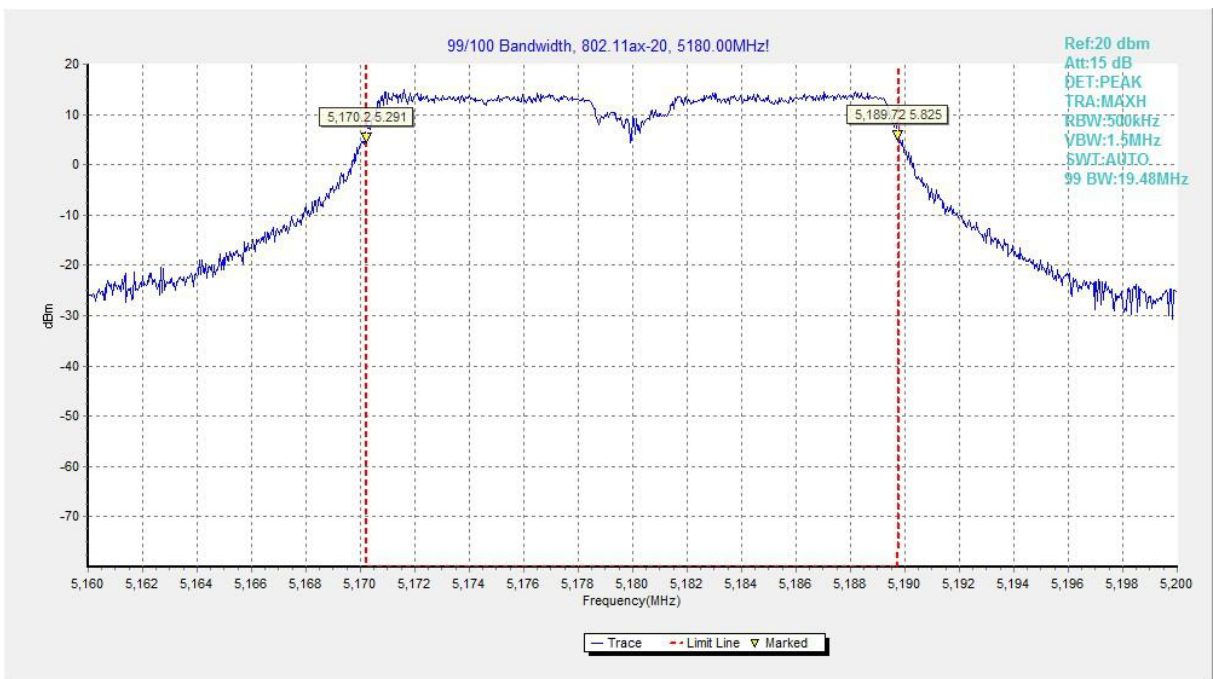


Fig.242 99% Occupied bandwidth (802.11ax-HE20, 5180MHz)

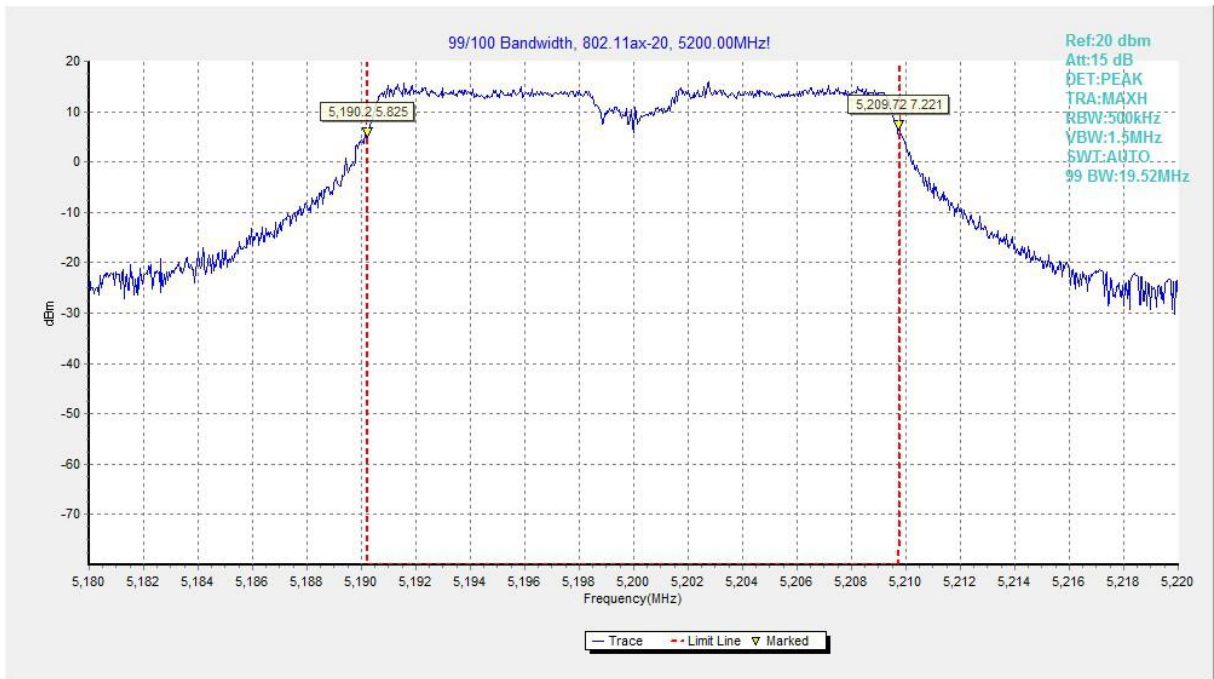


Fig.243 99% Occupied bandwidth (802.11ax-HE20, 5200MHz)

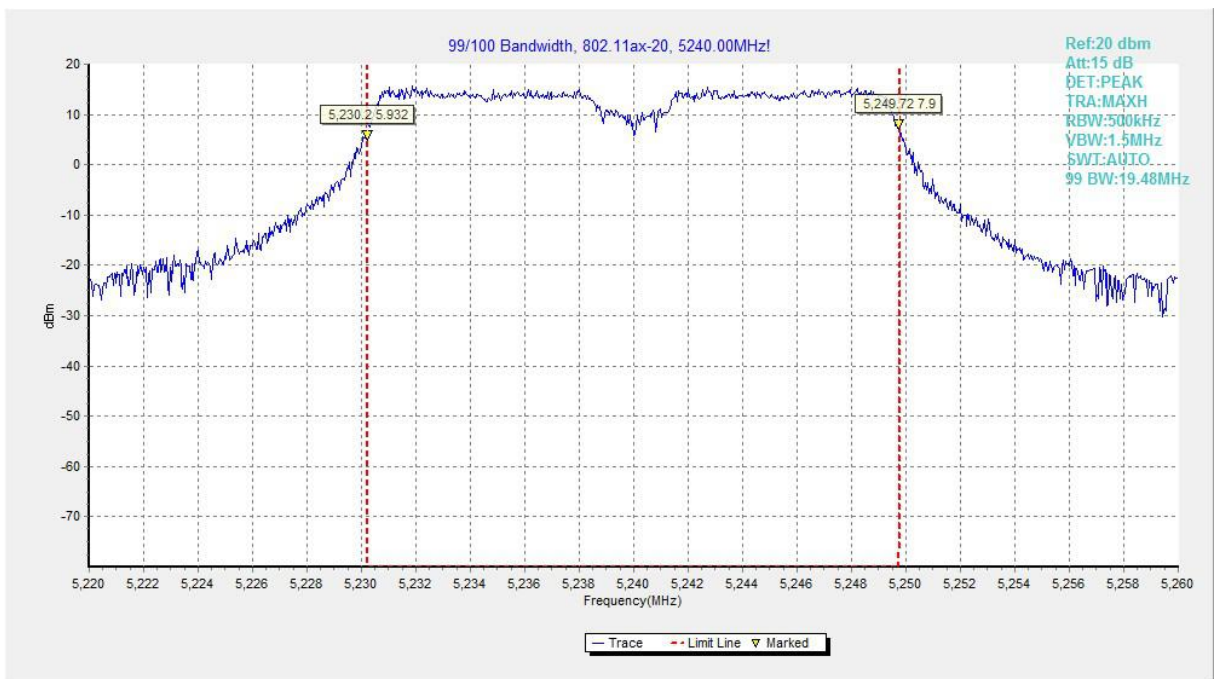


Fig.244 99% Occupied bandwidth (802.11ax-HE20, 5240MHz)

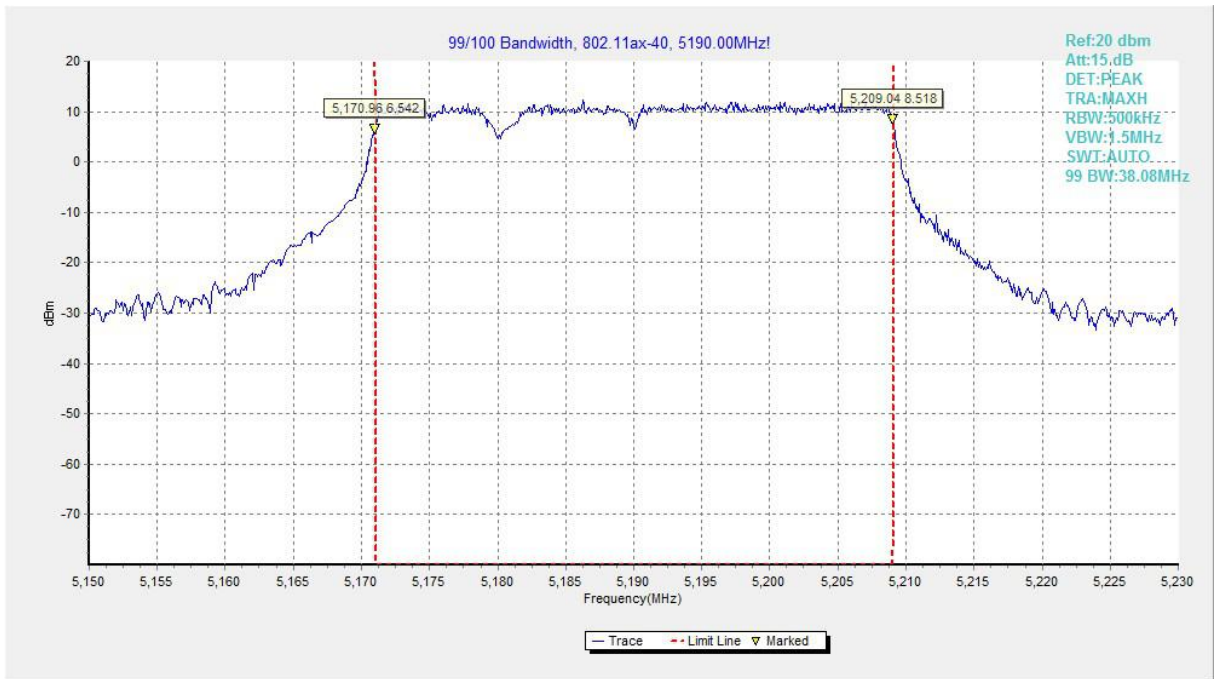


Fig.245 99% Occupied bandwidth (802.11ax-HE40, 5190MHz)

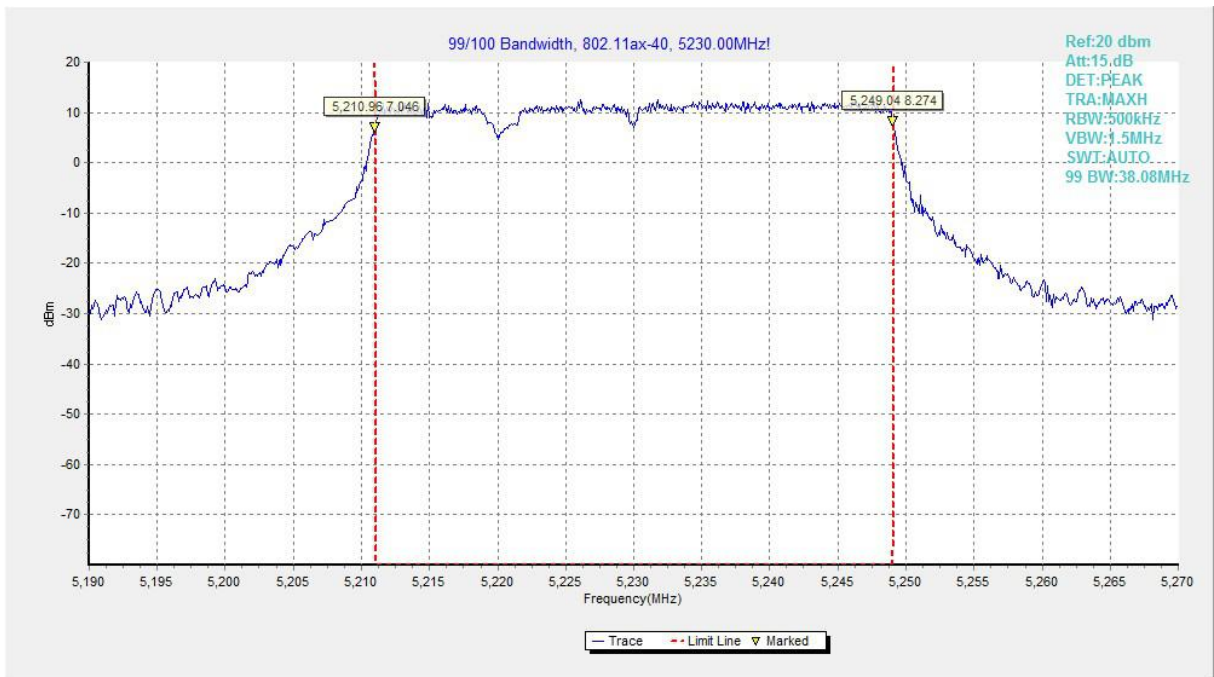


Fig.246 99% Occupied bandwidth (802.11ax-HE40, 5230MHz)

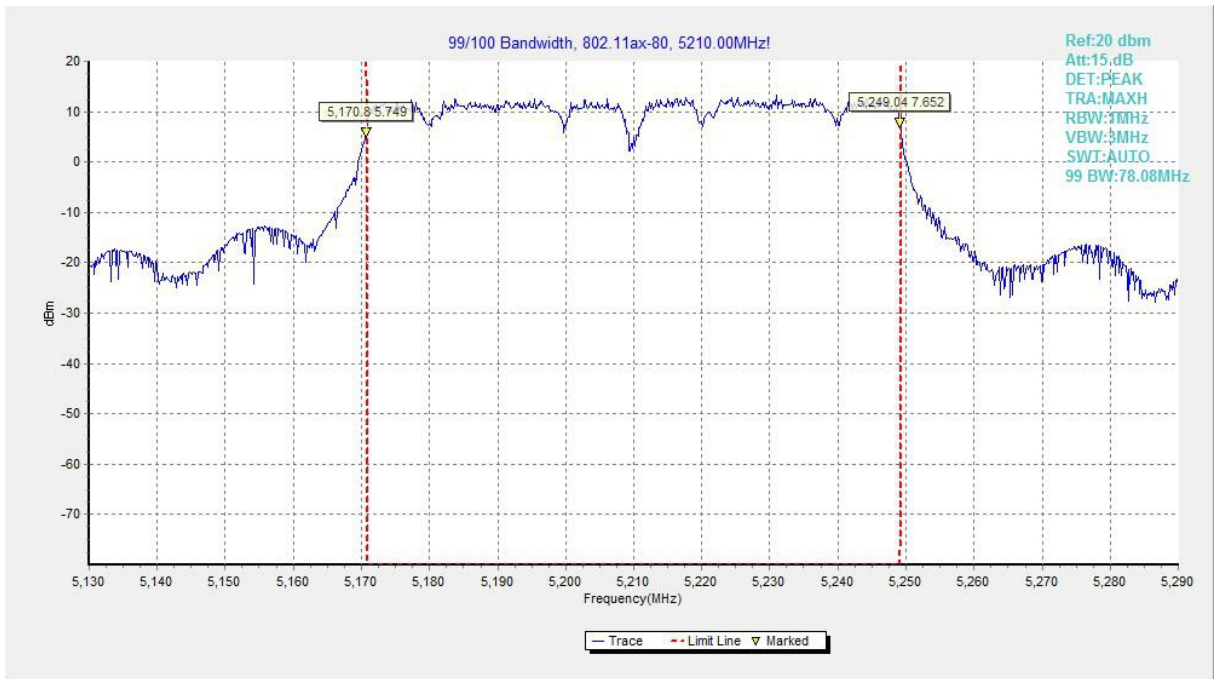


Fig.247 99% Occupied bandwidth (802.11ax-HE80, 5210MHz)

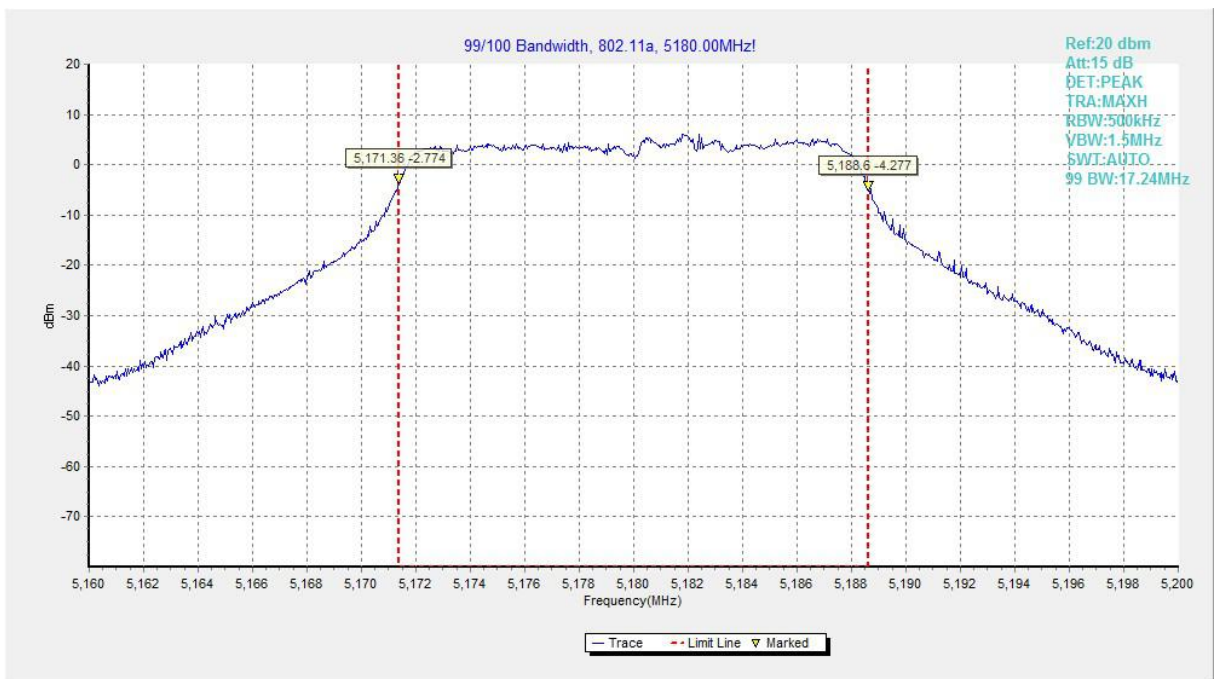


Fig.248 99% Occupied bandwidth (802.11a, 5180MHz)

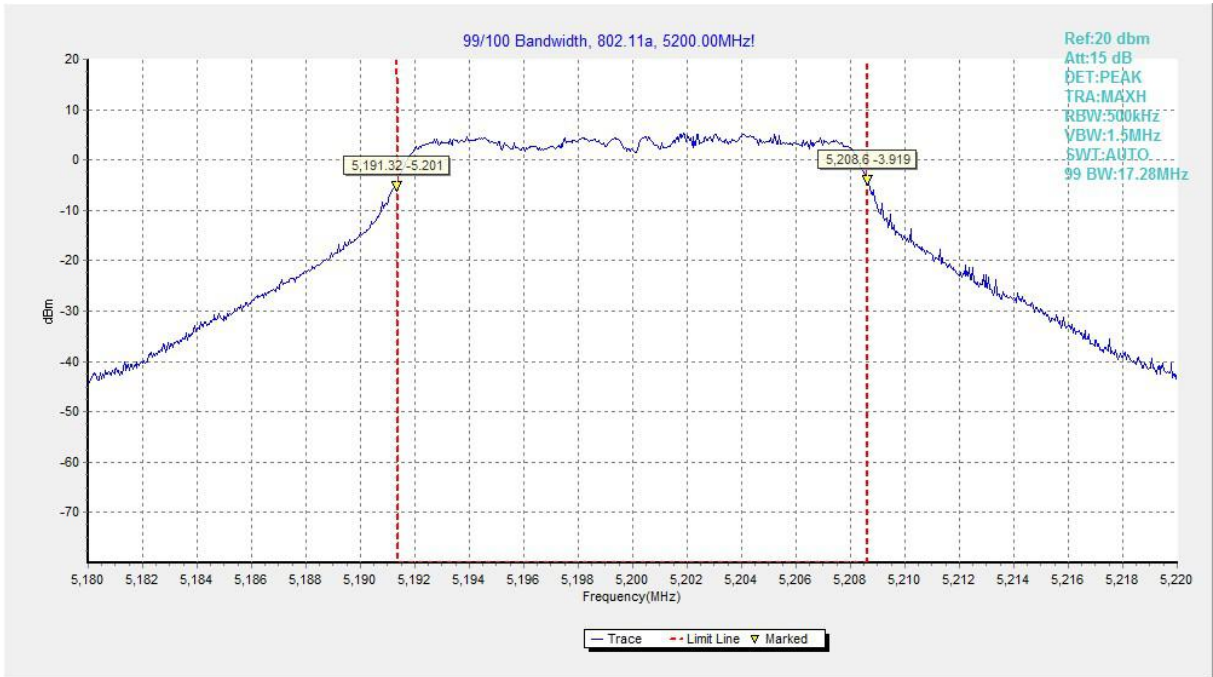


Fig.249 99% Occupied bandwidth (802.11a, 5200MHz)

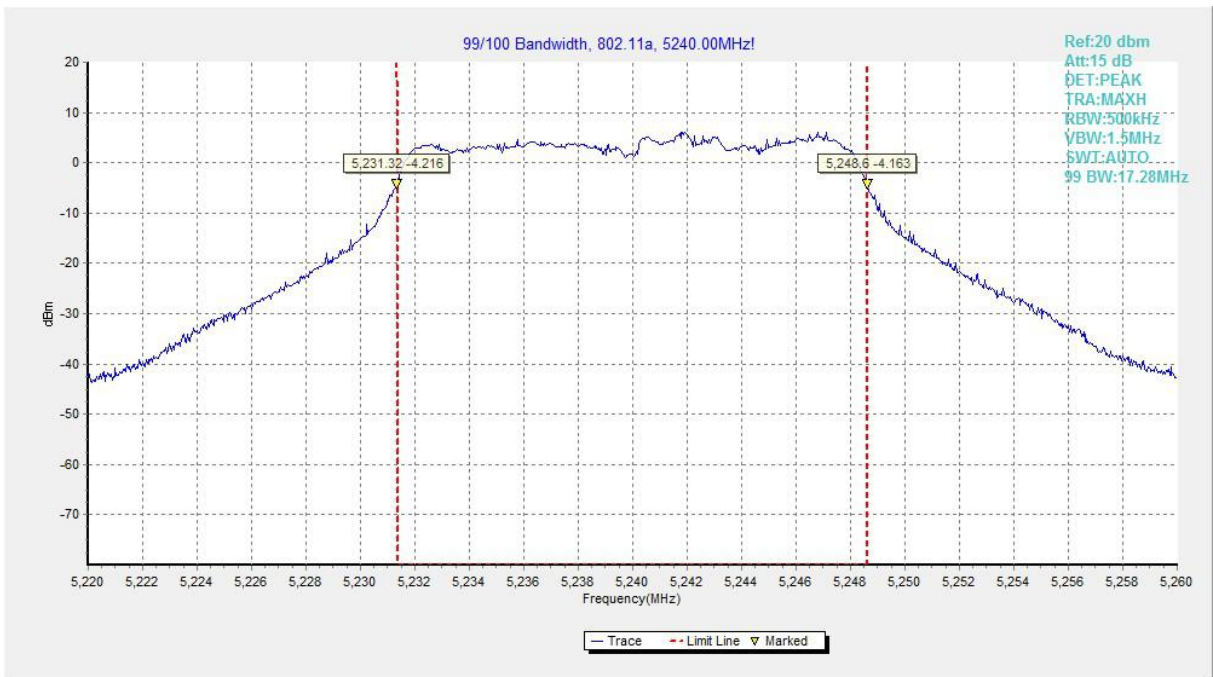


Fig.250 99% Occupied bandwidth (802.11a, 5240MHz)

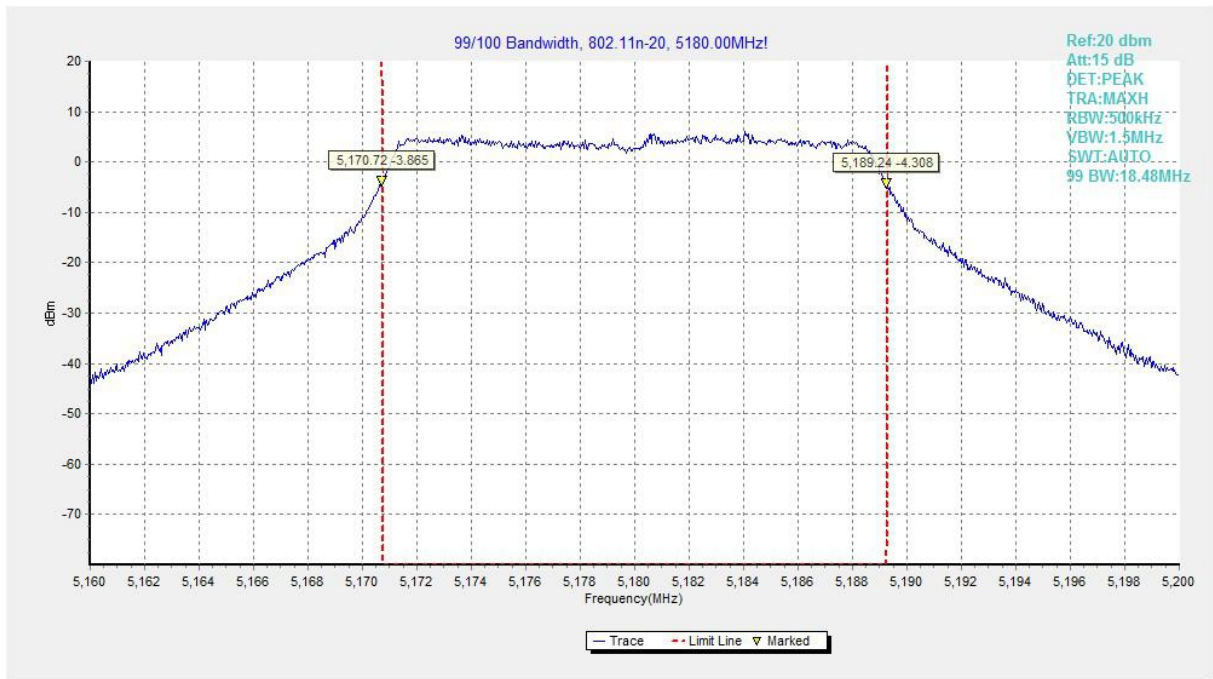


Fig.251 99% Occupied bandwidth (802.11n-HT20, 5180MHz)

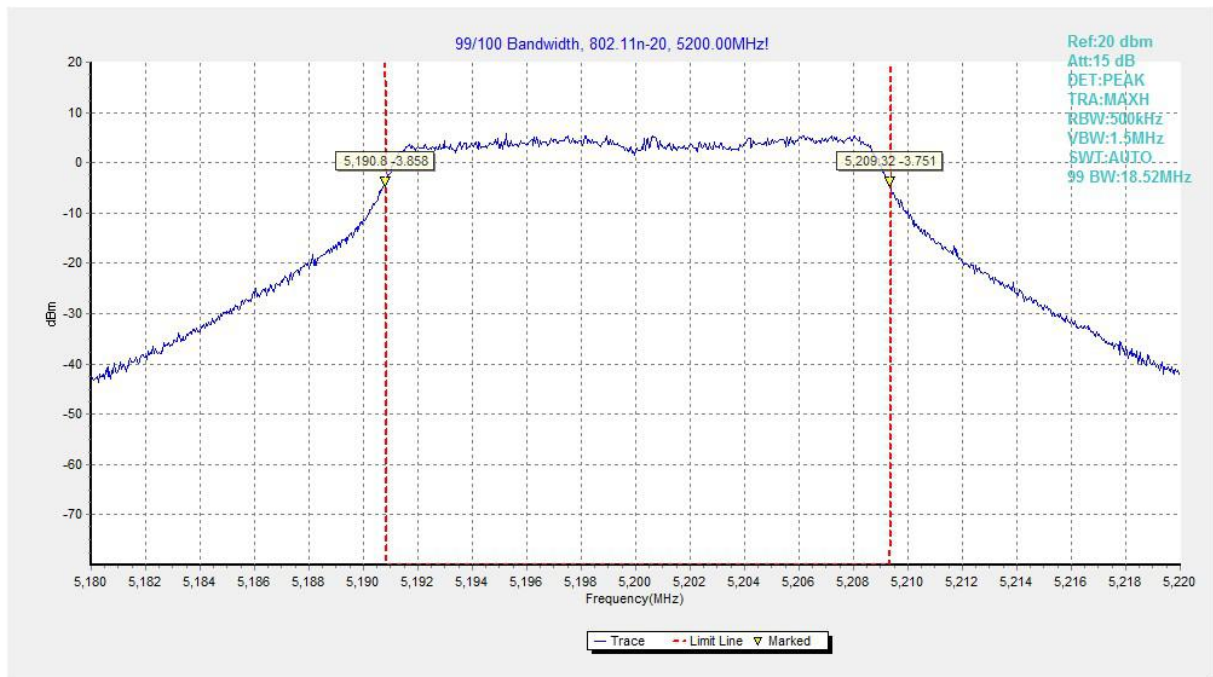


Fig.252 99% Occupied bandwidth (802.11n-HT20, 5200MHz)

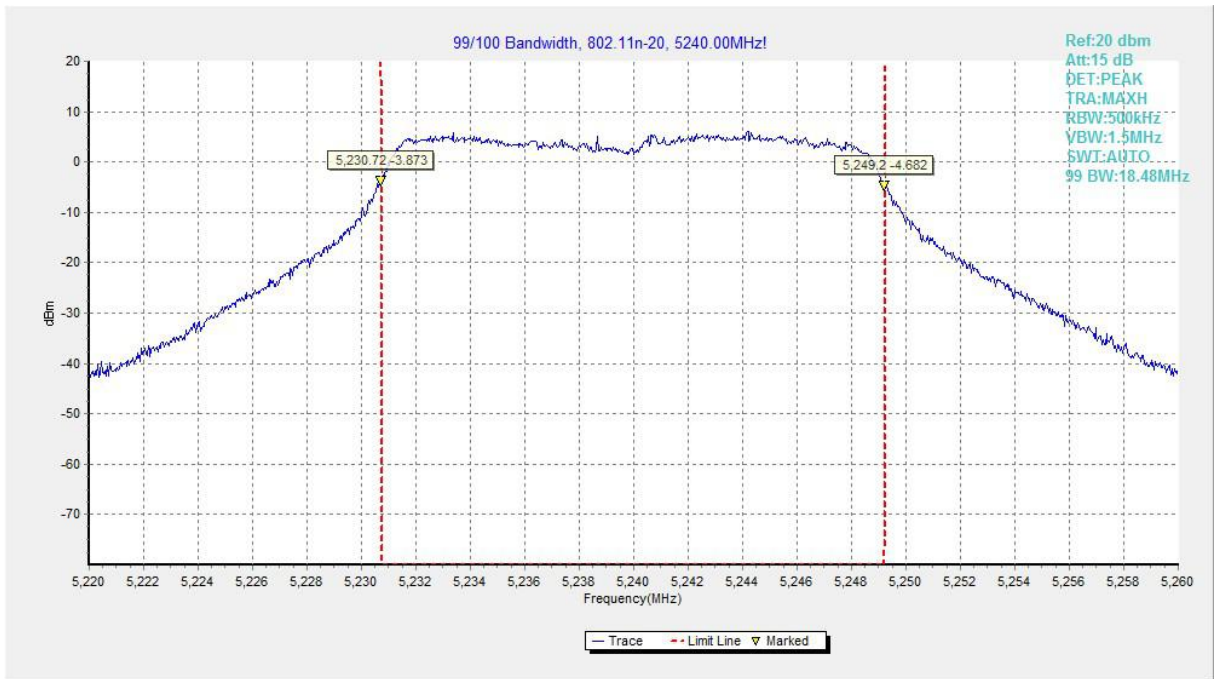


Fig.253 99% Occupied bandwidth (802.11n-HT20, 5240MHz)

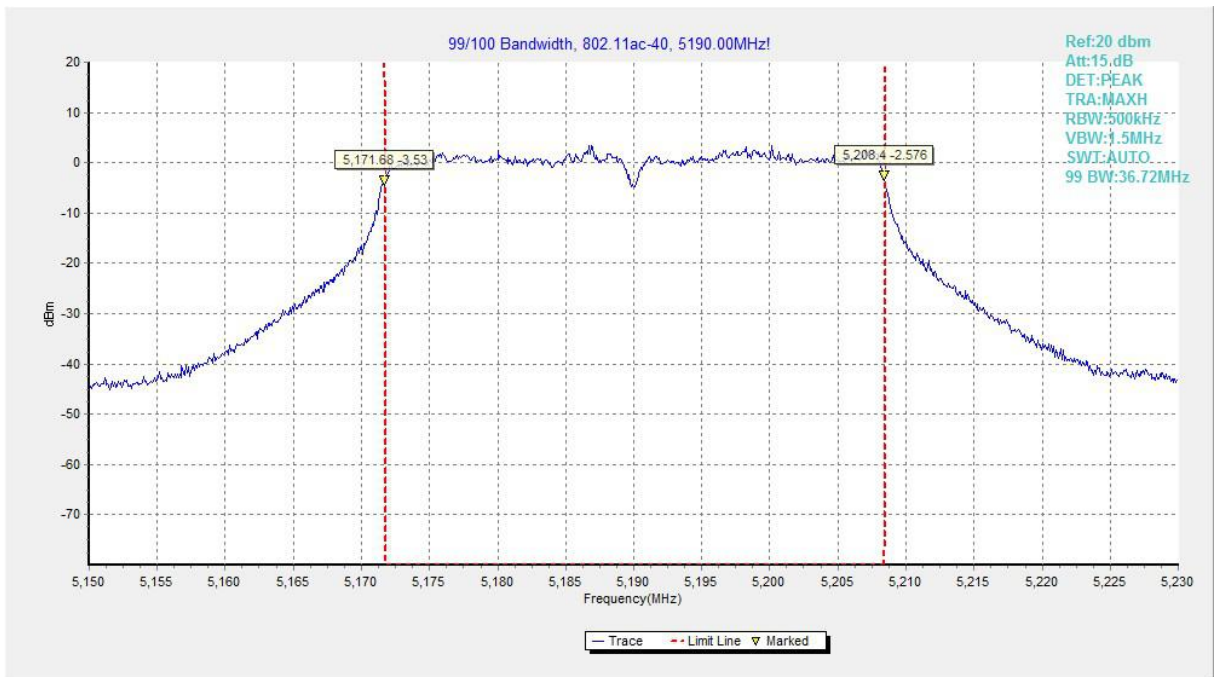


Fig.254 99% Occupied bandwidth (802.11ac-HT40, 5190MHz)

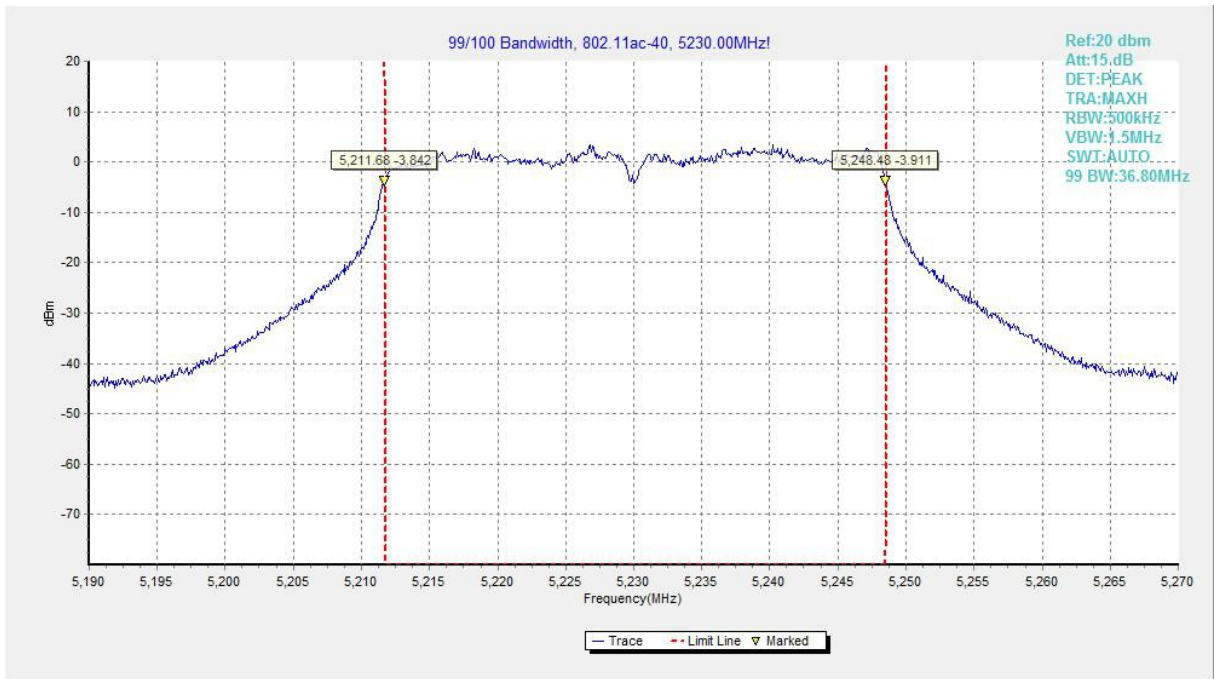


Fig.255 99% Occupied bandwidth (802.11ac-HT40, 5230MHz)

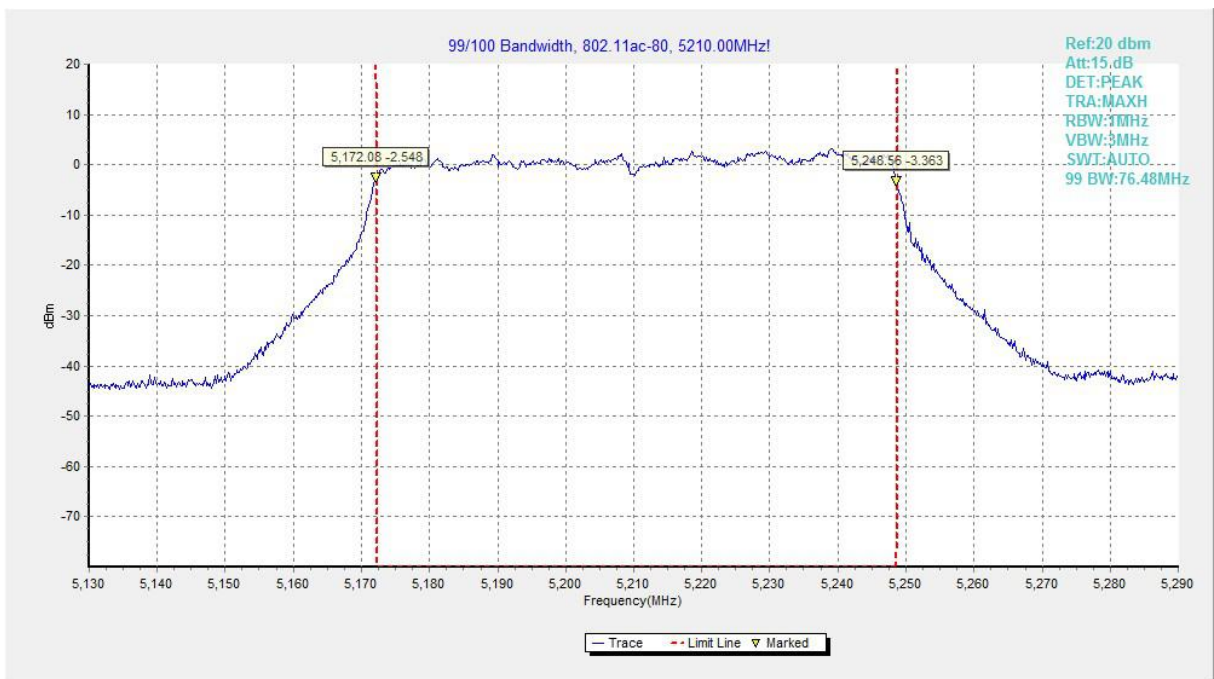


Fig.256 99% Occupied bandwidth (802.11ac-HT80, 5210MHz)