Channel 100

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5455.700	59.1	-32.0	34.7	56.38	74.0	14.9	V
5659.300	59.2	-32.5	34.9	56.86	74.0	14.8	H
17812.450	52.6	-23.0	40.9	34.73	74.0	21.4	V
17819.600	52.5	-23.1	40.9	34.65	74.0	21.5	V
17813.550	52.2	-23.1	40.9	34.35	74.0	21.8	V
17710.700	52.2	-24.6	41.0	35.74	74.0	21.8	H

Channel 120

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5548.200	52.3	-32.5	34.8	49.99	74.0	21.7	H
5646.800	52.8	-32.6	34.9	50.50	74.0	21.2	V
17830.600	52.7	-23.3	40.9	35.08	74.0	21.3	H
17860.850	52.4	-23.7	40.9	35.19	74.0	21.6	V
17820.150	52.1	-23.1	40.9	34.33	74.0	21.9	H
17813.550	52.1	-23.1	40.9	34.23	74.0	21.9	H

Channel 140

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5725.400	70.1	-33.0	34.9	68.17	74.0	3.9	H
5727.600	69.3	-33.0	34.9	67.39	74.0	4.7	V
17776.700	53.2	-23.5	41.0	35.75	74.0	20.8	H
17816.300	53.1	-23.1	40.9	35.20	74.0	20.9	V
17814.650	52.9	-23.1	40.9	35.01	74.0	21.1	H
17734.350	52.4	-24.2	41.0	35.65	74.0	21.6	V

802.11n-HT20

Channel 36

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5149.400	63.3	-32.9	34.4	61.81	74.0	10.7	H
5149.700	63.9	-32.9	34.4	62.40	74.0	10.1	H
17809.150	53.2	-23.0	41.0	35.23	74.0	20.8	V
17803.650	53.0	-23.1	41.0	35.12	74.0	21.0	H
17776.700	52.9	-23.5	41.0	35.45	74.0	21.1	V
17788.800	52.7	-23.3	41.0	35.08	74.0	21.3	H

Channel 40

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5124.800	48.1	-33.2	34.4	46.84	74.0	25.9	H
5272.000	49.1	-32.3	34.4	46.92	74.0	24.9	V
17808.050	53.6	-23.0	41.0	35.65	74.0	20.4	V
17883.950	52.8	-24.0	40.9	35.93	74.0	21.2	H
17794.300	52.7	-23.2	41.0	34.94	74.0	21.3	H
17803.100	52.6	-23.1	41.0	34.76	74.0	21.4	V

Channel 48

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5143.600	48.2	-33.0	34.4	46.78	74.0	25.8	H
5293.000	49.8	-32.1	34.5	47.43	74.0	24.2	H
17804.200	52.5	-23.1	41.0	34.67	74.0	21.5	V
17811.900	52.1	-23.0	41.0	34.22	74.0	21.9	H
17791.550	52.0	-23.3	41.0	34.33	74.0	22.0	V
17808.600	52.0	-23.0	41.0	34.05	74.0	22.0	V

Channel 52

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5210.200	50.3	-32.5	34.4	48.37	74.0	23.7	H
5332.000	50.7	-31.9	34.5	48.05	74.0	23.3	V
17794.300	53.2	-23.2	41.0	35.44	74.0	20.8	H
17817.950	52.7	-23.1	40.9	34.89	74.0	21.3	V
17824.000	52.5	-23.2	40.9	34.70	74.0	21.5	V
17817.400	52.2	-23.1	40.9	34.32	74.0	21.8	V

Channel 56

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5239.200	53.8	-32.5	34.4	51.90	74.0	20.2	H
5331.400	53.5	-31.9	34.5	50.85	74.0	20.5	V
17784.400	52.7	-23.4	41.0	35.11	74.0	21.3	V
17813.550	52.6	-23.1	40.9	34.72	74.0	21.4	H
17835.550	52.6	-23.3	40.9	34.99	74.0	21.4	V
17819.600	52.3	-23.1	40.9	34.49	74.0	21.7	H

Channel 64

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.800	63.2	-31.9	34.6	60.51	74.0	10.8	H
5353.000	62.2	-31.9	34.6	59.52	74.0	11.8	H
17805.850	52.9	-23.1	41.0	35.04	74.0	21.1	V
17823.450	52.8	-23.2	40.9	35.00	74.0	21.2	V
17924.650	52.6	-24.5	40.9	36.27	74.0	21.4	V
17893.850	52.4	-24.1	40.9	35.67	74.0	21.6	H

Channel 100

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5454.200	56.4	-32.0	34.7	53.67	74.0	17.6	H
5657.900	55.9	-32.5	34.9	53.56	74.0	18.1	H
17821.250	52.3	-23.2	40.9	34.52	74.0	21.7	V
17802.000	52.2	-23.1	41.0	34.37	74.0	21.8	V
17795.950	52.2	-23.2	41.0	34.41	74.0	21.8	H
17813.000	52.1	-23.0	40.9	34.19	74.0	21.9	V

Channel 120

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5540.800	53.1	-32.5	34.8	50.75	74.0	20.9	H
5644.000	53.1	-32.6	34.9	50.81	74.0	20.9	H
17812.450	52.5	-23.0	40.9	34.61	74.0	21.5	V
17793.750	52.4	-23.2	41.0	34.67	74.0	21.6	H
17804.200	52.3	-23.1	41.0	34.44	74.0	21.7	V
17778.900	52.3	-23.5	41.0	34.79	74.0	21.7	H

Channel 140

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5725.300	64.7	-33.0	34.9	62.77	74.0	9.3	H
5727.000	64.5	-33.0	34.9	62.59	74.0	9.5	H
17807.500	52.5	-23.0	41.0	34.54	74.0	21.5	V
17775.050	52.2	-23.6	41.0	34.75	74.0	21.8	H
17825.650	52.1	-23.2	40.9	34.35	74.0	21.9	V
17800.350	52.0	-23.1	41.0	34.17	74.0	22.0	H

802.11n-HT40

Channel 38

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5148.100	67.8	-33.0	34.4	66.32	74.0	6.2	H
5149.900	69.4	-32.9	34.4	67.90	74.0	4.6	V
17832.250	53.4	-23.3	40.9	35.74	74.0	20.6	H
17819.050	53.0	-23.1	40.9	35.16	74.0	21.0	V
17813.550	52.7	-23.1	40.9	34.84	74.0	21.3	H
17799.250	52.7	-23.2	41.0	34.91	74.0	21.3	H

Channel 46

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5150.000	49.5	-32.9	34.4	48.00	74.0	24.5	V
5303.000	51.3	-32.0	34.5	48.86	74.0	22.7	H
17808.600	53.4	-23.0	41.0	35.46	74.0	20.6	V
17819.050	53.0	-23.1	40.9	35.18	74.0	21.0	V
17822.900	52.9	-23.2	40.9	35.14	74.0	21.1	V
17834.450	52.8	-23.3	40.9	35.18	74.0	21.2	H

Channel 54

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5195.000	52.3	-32.5	34.4	50.34	74.0	21.7	V
5369.000	52.1	-32.0	34.6	49.48	74.0	21.9	H
17786.050	53.4	-23.4	41.0	35.77	74.0	20.6	V
17800.900	52.8	-23.1	41.0	34.94	74.0	21.2	H
17885.050	52.4	-24.0	40.9	35.48	74.0	21.6	H
17804.200	52.4	-23.1	41.0	34.47	74.0	21.6	H

Channel 62

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5350.400	71.8	-31.9	34.6	69.10	74.0	2.2	H
5351.200	71.4	-31.9	34.6	68.71	74.0	2.6	H
17816.300	53.2	-23.1	40.9	35.38	74.0	20.8	V
17827.850	52.9	-23.2	40.9	35.21	74.0	21.1	H
17818.500	52.4	-23.1	40.9	34.58	74.0	21.6	V
17822.350	52.3	-23.2	40.9	34.50	74.0	21.7	V

Channel 102

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5454.360	64.3	-32.0	34.7	61.56	74.0	9.7	H
5458.840	66.3	-32.0	34.7	63.54	74.0	7.7	H
17813.550	53.1	-23.1	40.9	35.22	74.0	20.9	V
17816.300	52.7	-23.1	40.9	34.82	74.0	21.3	V
17805.300	52.6	-23.1	41.0	34.71	74.0	21.4	V
17849.850	52.5	-23.5	40.9	35.08	74.0	21.5	V

Channel 118

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5303.200	51.1	-32.0	34.5	48.62	74.0	22.9	H
5751.600	51.1	-32.9	34.9	49.09	74.0	22.9	H
17816.300	52.9	-23.1	40.9	35.07	74.0	21.1	V
17792.650	52.6	-23.3	41.0	34.90	74.0	21.4	V
17801.450	52.6	-23.1	41.0	34.76	74.0	21.4	V
17806.950	52.5	-23.0	41.0	34.59	74.0	21.5	V

Channel 134

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5725.680	61.5	-33.0	34.9	59.60	74.0	12.5	H
5727.600	60.8	-33.0	34.9	58.86	74.0	13.2	H
17804.750	53.4	-23.1	41.0	35.53	74.0	20.6	H
17819.050	52.6	-23.1	40.9	34.76	74.0	21.4	V
17806.400	52.5	-23.0	41.0	34.57	74.0	21.5	V
17802.550	52.5	-23.1	41.0	34.61	74.0	21.5	H

802.11ac-HT80

Channel 42

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5142.680	65.9	-33.0	34.9	63.95	74.0	8.1	H
5141.000	67.8	-33.0	34.9	65.86	74.0	6.2	H
17795.400	53.7	-23.2	41.0	35.93	74.0	20.3	V
17808.050	52.7	-23.0	41.0	34.80	74.0	21.3	H
17810.800	52.4	-23.0	41.0	34.45	74.0	21.6	V
17800.350	52.3	-23.1	41.0	34.53	74.0	21.7	H

Channel 58

Frequency (MHz)	Meas. Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBμV)	Limit (dBμV/m)	Margin (dB)	Antenna Pol. (H/V)
5357.510	68.8	-33.0	34.9	66.85	74.0	5.2	H
5356.510	68.4	-33.0	34.9	66.44	74.0	5.6	V
17836.100	52.7	-23.4	40.9	35.08	74.0	21.3	H
17810.800	52.5	-23.0	41.0	34.61	74.0	21.5	V
17819.050	52.4	-23.1	40.9	34.56	74.0	21.6	H
17794.850	52.2	-23.2	41.0	34.49	74.0	21.8	H

Channel 106

Frequency (MHz)	Meas. Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Limit (dBµV/m)	Margin (dB)	Antenna Pol. (H/V)
5458.840	69.6	-33.0	34.9	67.67	74.0	4.4	H
5458.620	68.8	-33.0	34.9	66.87	74.0	5.2	V
17743.150	53.6	-24.1	41.0	36.65	74.0	20.4	H
17725.000	52.8	-24.4	41.0	36.12	74.0	21.2	V
17820.150	52.7	-23.1	40.9	34.93	74.0	21.3	H
17795.400	52.7	-23.2	41.0	34.96	74.0	21.3	H

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

Test Condition:

Voltage（V）	Frequency（Hz）
110	60

Measurement uncertainty:
Expanded measurement uncertainty for this test item is U =3.2dB, k=2.

Measurement Result and limit:
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.60	Fig.61	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.62	Fig.63	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:

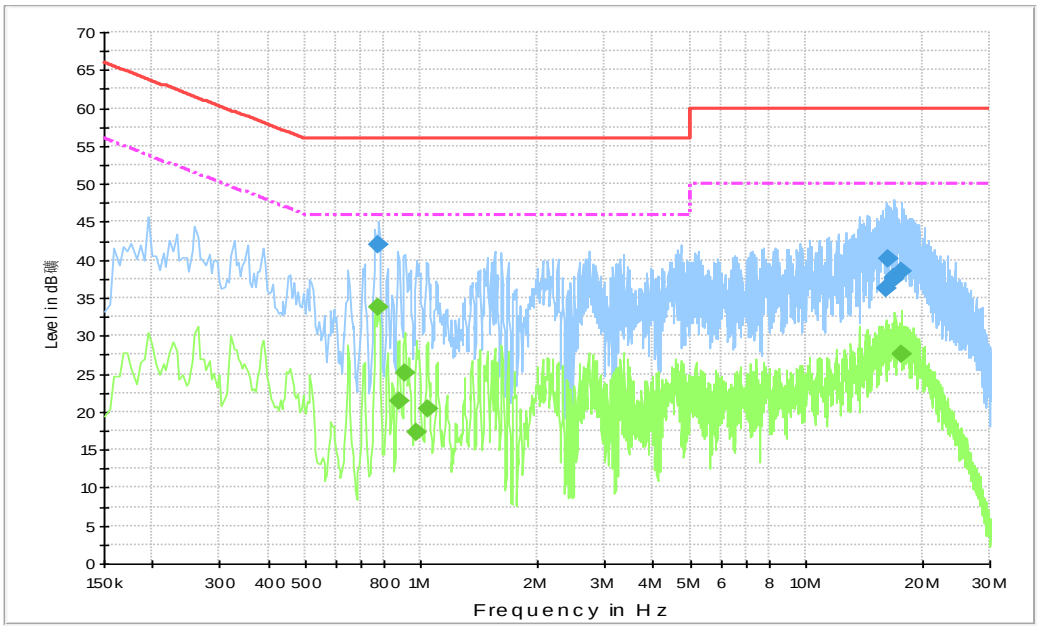


Fig. 60 Conducted Emission(802.11a, Ch40, TX)

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.775500	42.0	GND	L1	10.7	14.0	56.0
16.224000	36.3	GND	L1	11.2	23.7	60.0
16.354500	40.2	GND	L1	11.2	19.8	60.0
16.899000	37.6	GND	L1	11.2	22.4	60.0
17.002500	37.7	GND	L1	11.2	22.3	60.0
17.785500	38.5	GND	L1	11.2	21.5	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.775500	33.8	GND	L1	10.7	12.2	46.0
0.874500	21.5	GND	L1	10.7	24.5	46.0
0.906000	25.1	GND	L1	10.7	20.9	46.0
0.973500	17.3	GND	L1	10.7	28.7	46.0
1.036500	20.4	GND	L1	10.7	25.6	46.0
17.718000	27.6	GND	L1	11.2	22.4	50.0

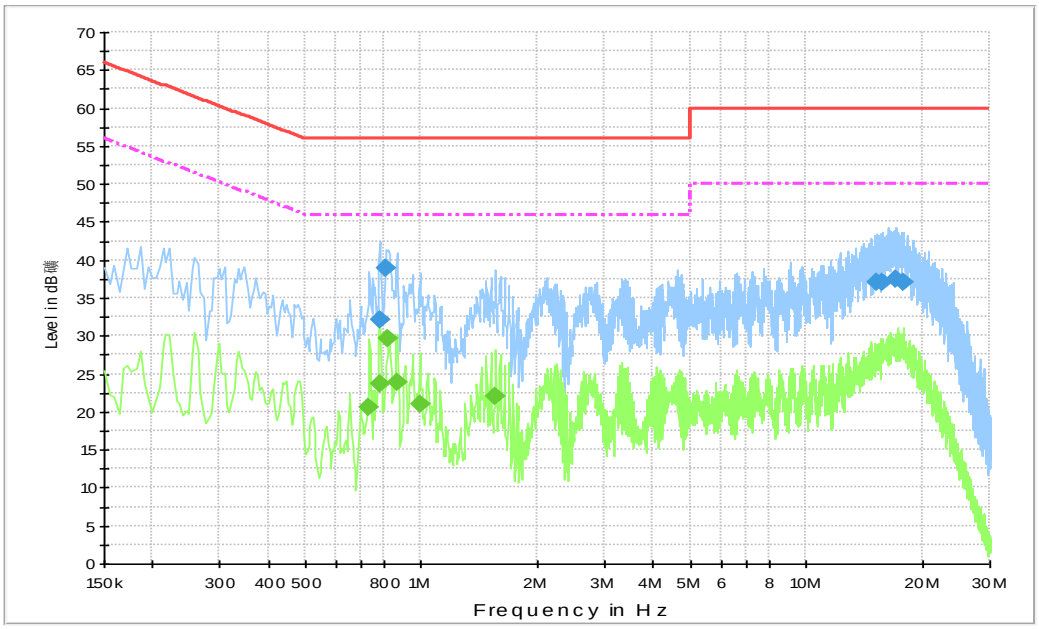


Fig. 61 Conducted Emission(802.11a, IDLE)

Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.780000	32.0	GND	L1	10.7	24.0	56.0
0.811500	38.8	GND	L1	10.7	17.2	56.0
15.315000	37.0	GND	L1	11.2	23.0	60.0
15.783000	37.1	GND	L1	11.2	22.9	60.0
17.025000	37.4	GND	L1	11.2	22.6	60.0
17.947500	37.0	GND	L1	11.2	23.0	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	PE	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.730500	20.7	GND	L1	10.7	25.3	46.0
0.780000	23.7	GND	L1	10.7	22.3	46.0
0.820500	29.7	GND	L1	10.7	16.3	46.0
0.865500	23.9	GND	L1	10.7	22.1	46.0
0.991500	21.0	GND	L1	10.7	25.0	46.0
1.558500	22.0	GND	L1	10.7	24.0	46.0

A.9. 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% ofthe 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

Measurement Result:

Mode	Channel	99% Occupied bandwidth (MHz)		conclusion
802.11a	5180 MHz	Fig.64	16.48	P
	5200 MHz	Fig.65	16.56	P
	5240 MHz	Fig.66	16.56	P
802.11n HT20	5180 MHz	Fig.67	17.56	P
	5200 MHz	Fig.68	17.60	P
	5240 MHz	Fig.69	17.56	P
802.11ac HT20	5180 MHz	Fig.70	17.56	P
	5200 MHz	Fig.71	17.56	P
	5240 MHz	Fig.72	17.56	P
802.11n HT40	5190 MHz	Fig.73	36.24	P
	5230 MHz	Fig.74	36.24	P
802.11ac HT40	5190 MHz	Fig.75	36.08	P
	5230 MHz	Fig.76	36.00	P
802.11ac HT80	5210 MHz	Fig.77	75.36	P

Conclusion: PASS

Test graphs as below:

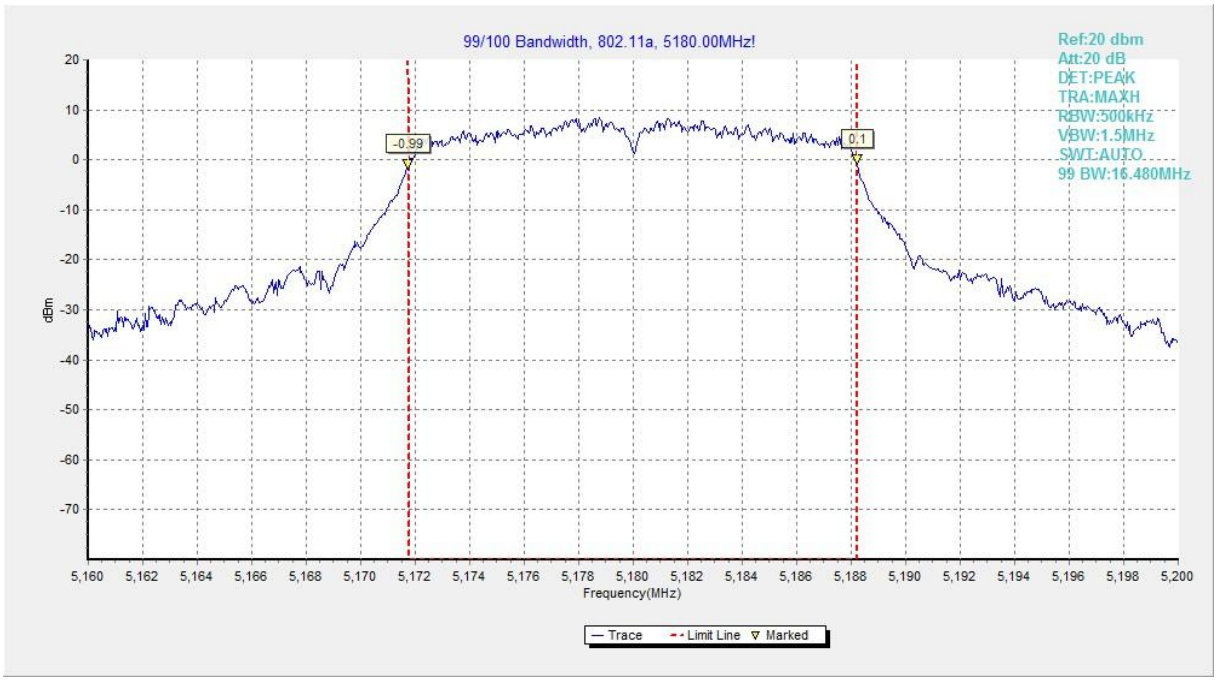


Fig. 62 99% Occupied bandwidth (802.11a, 5180MHz)

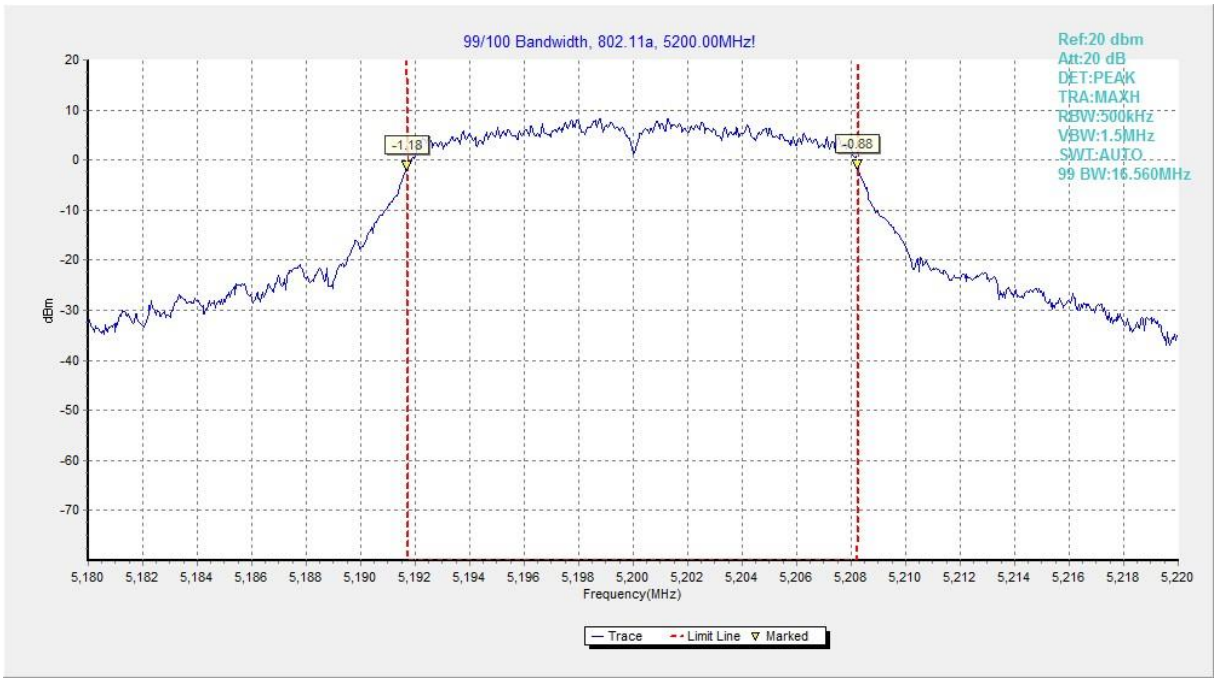


Fig. 63 99% Occupied bandwidth (802.11a, 5200MHz)

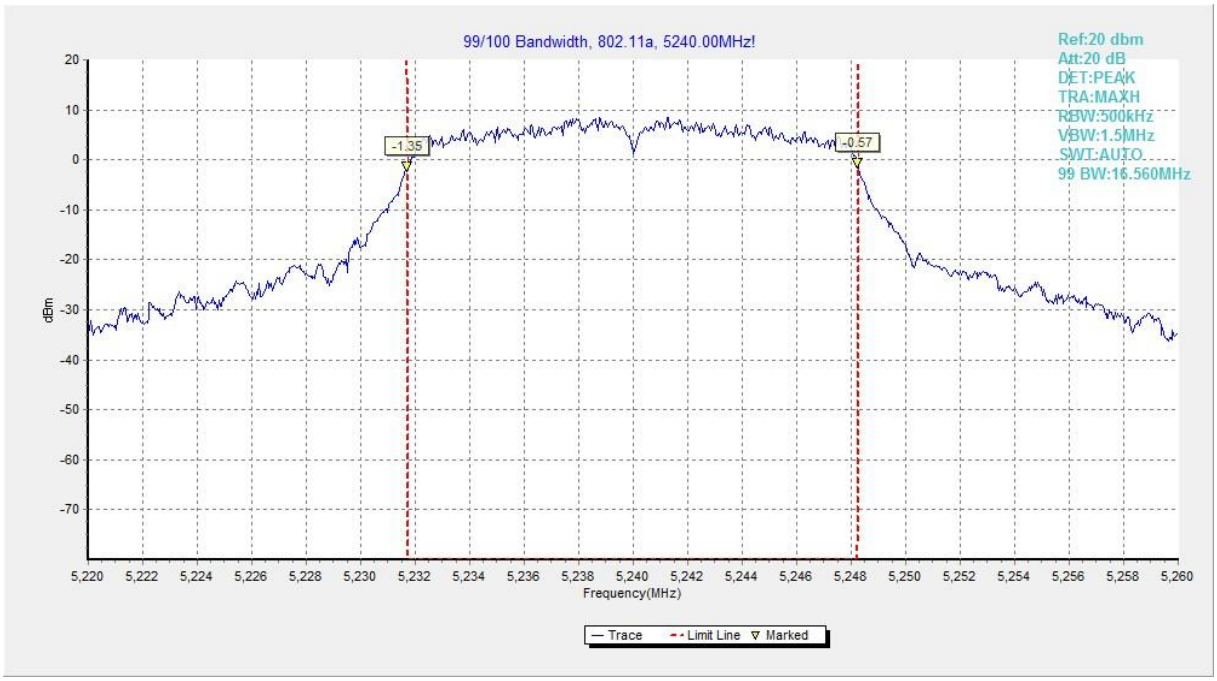


Fig. 64 99% Occupied bandwidth (802.11a, 5240MHz)

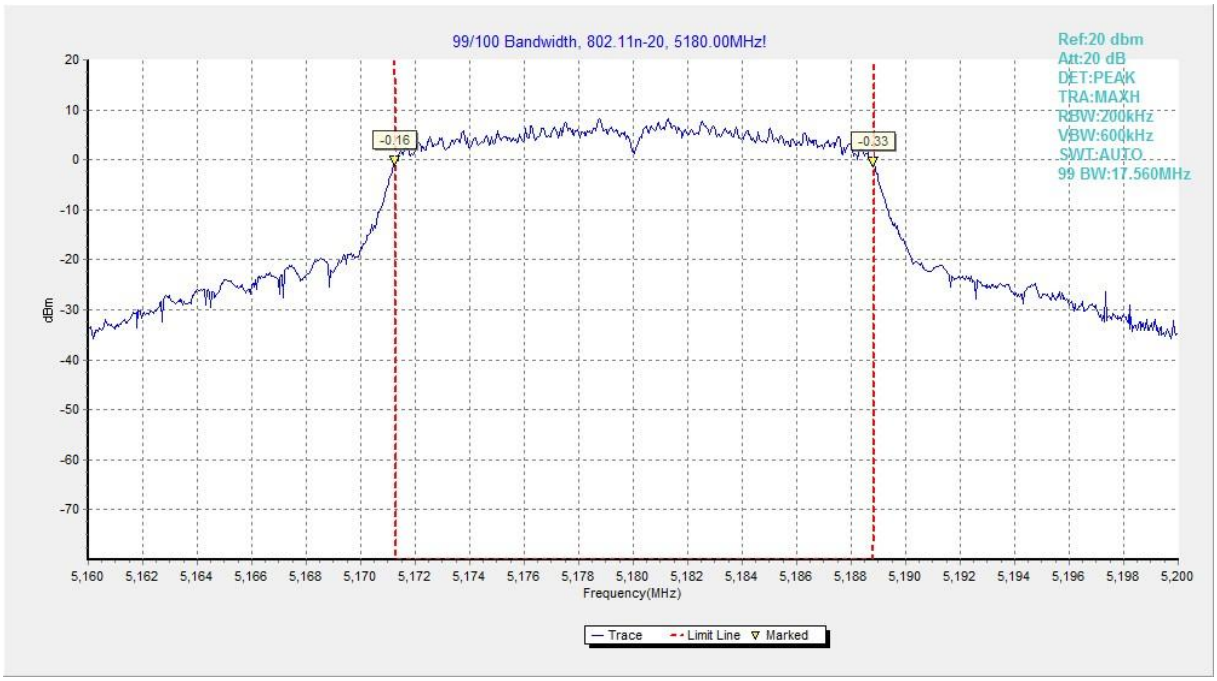


Fig. 65 99% Occupied bandwidth (802.11n-HT20, 5180MHz)

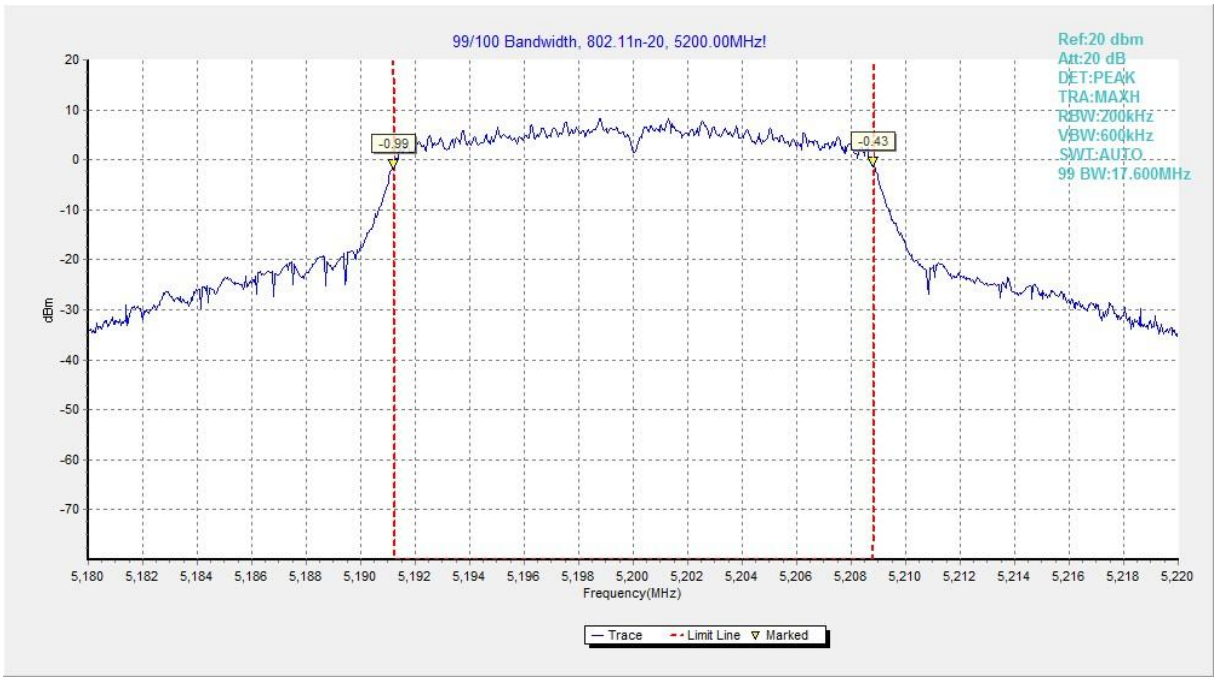


Fig. 66 99% Occupied bandwidth (802.11n-HT20, 5200MHz)

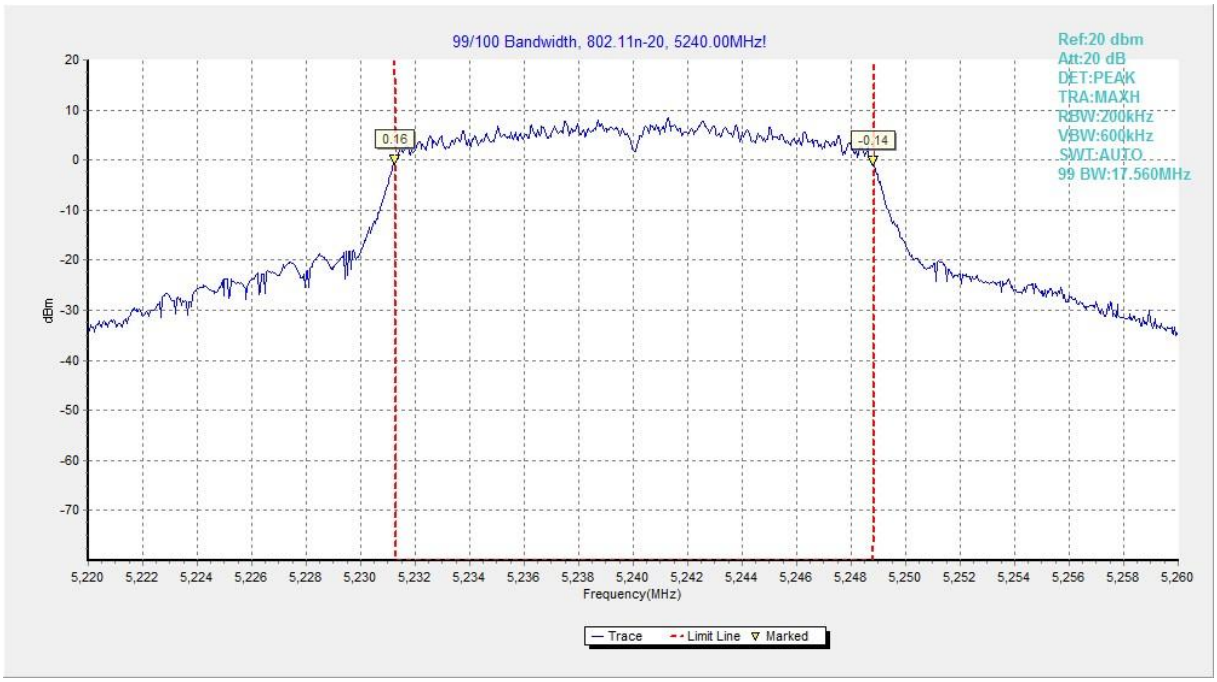


Fig. 67 99% Occupied bandwidth (802.11n-HT20, 5240MHz)

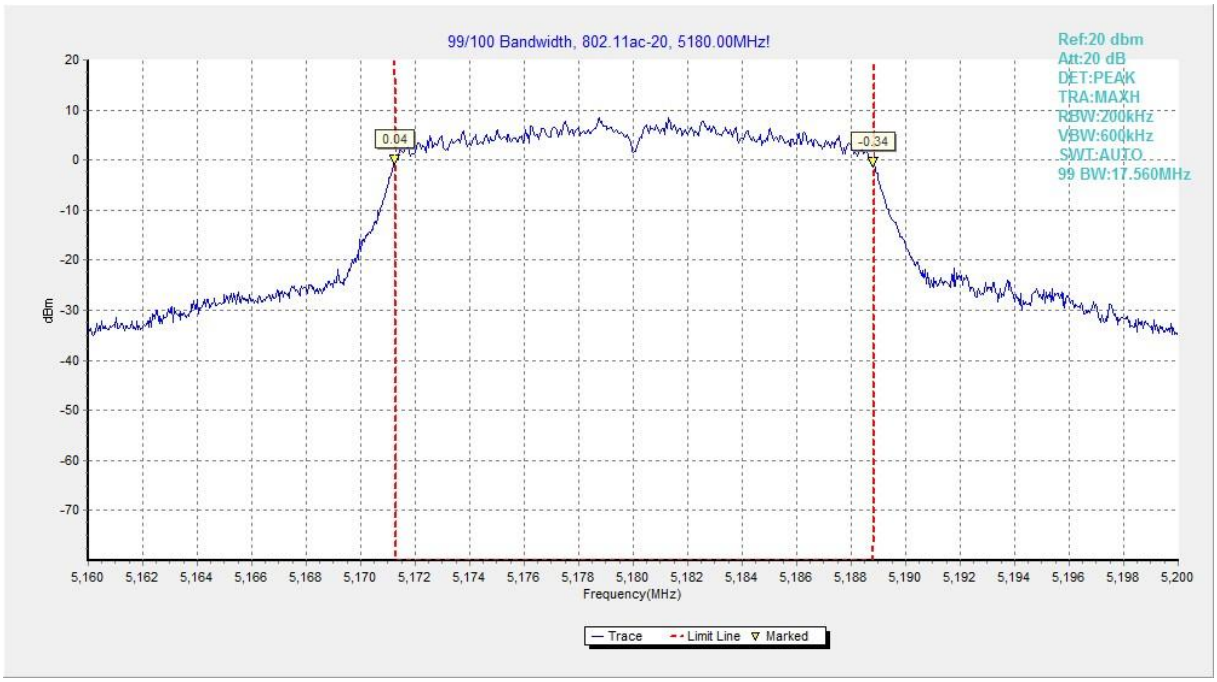


Fig. 68 99% Occupied bandwidth (802.11ac-HT20, 5180MHz)

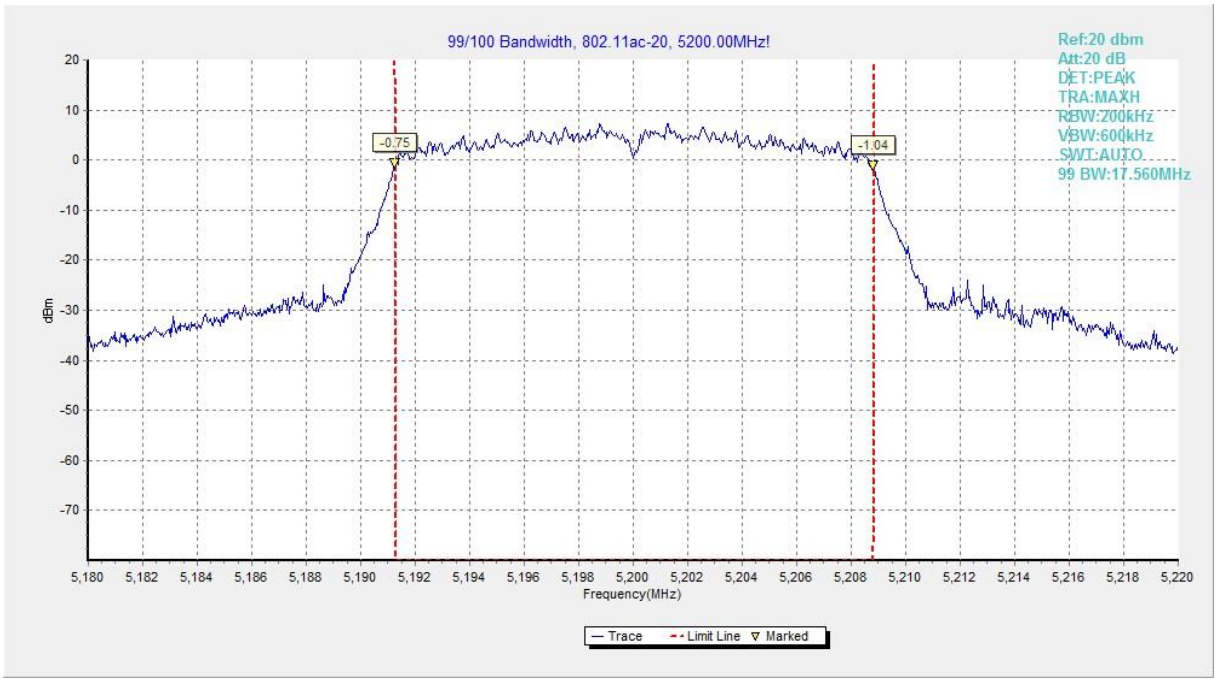


Fig. 69 99% Occupied bandwidth (802.11ac-HT20, 5200MHz)

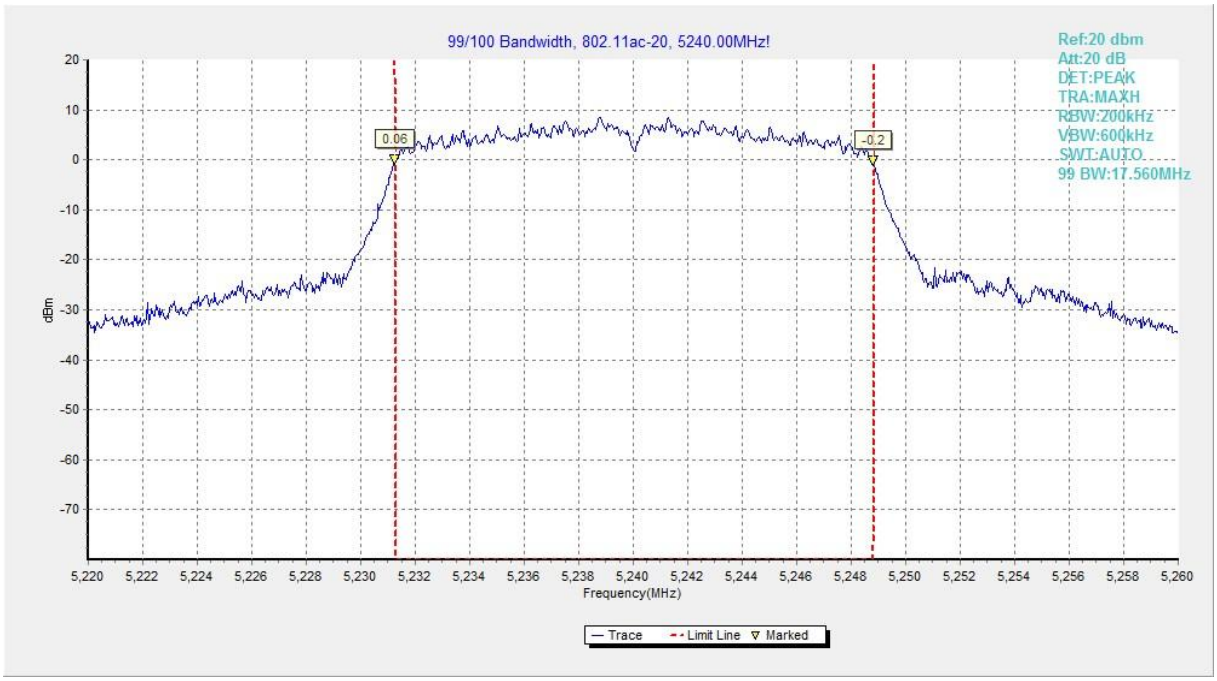


Fig. 70 99% Occupied bandwidth (802.11ac-HT20, 5240MHz)

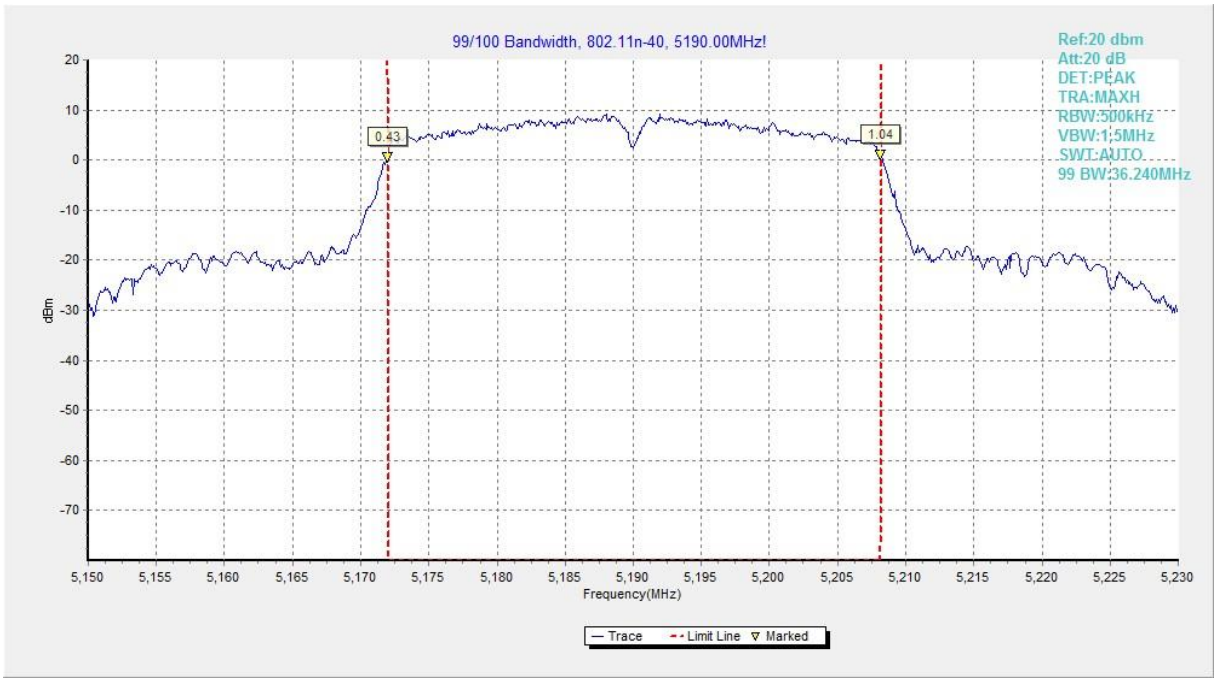


Fig. 71 99% Occupied bandwidth (802.11n-HT40, 5190MHz)

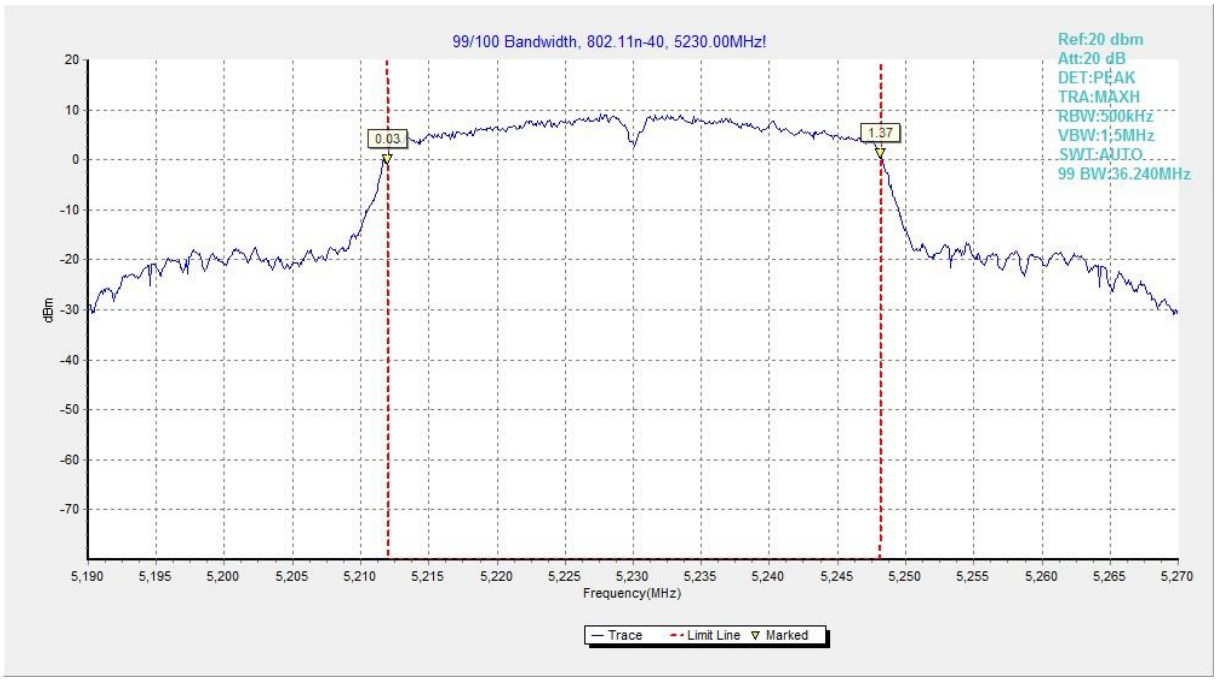


Fig. 72 99% Occupied bandwidth (802.11n-HT40, 5230MHz)

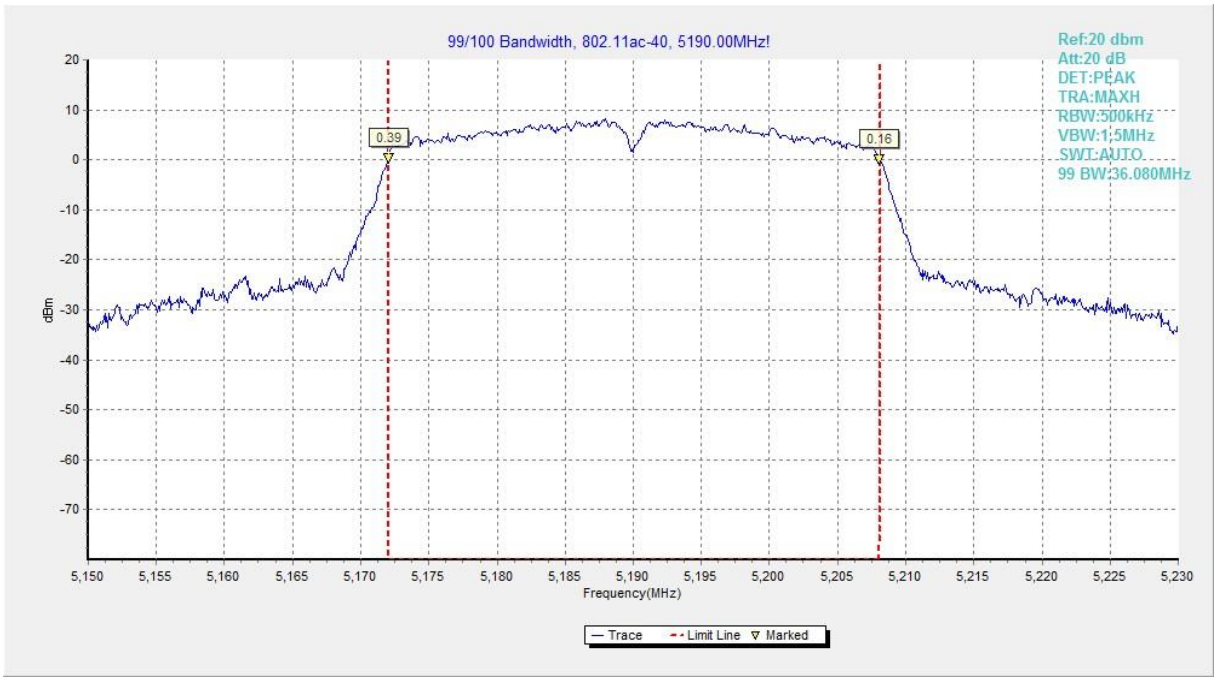


Fig. 73 9% Occupied bandwidth (802.11ac-HT40, 5190MHz)

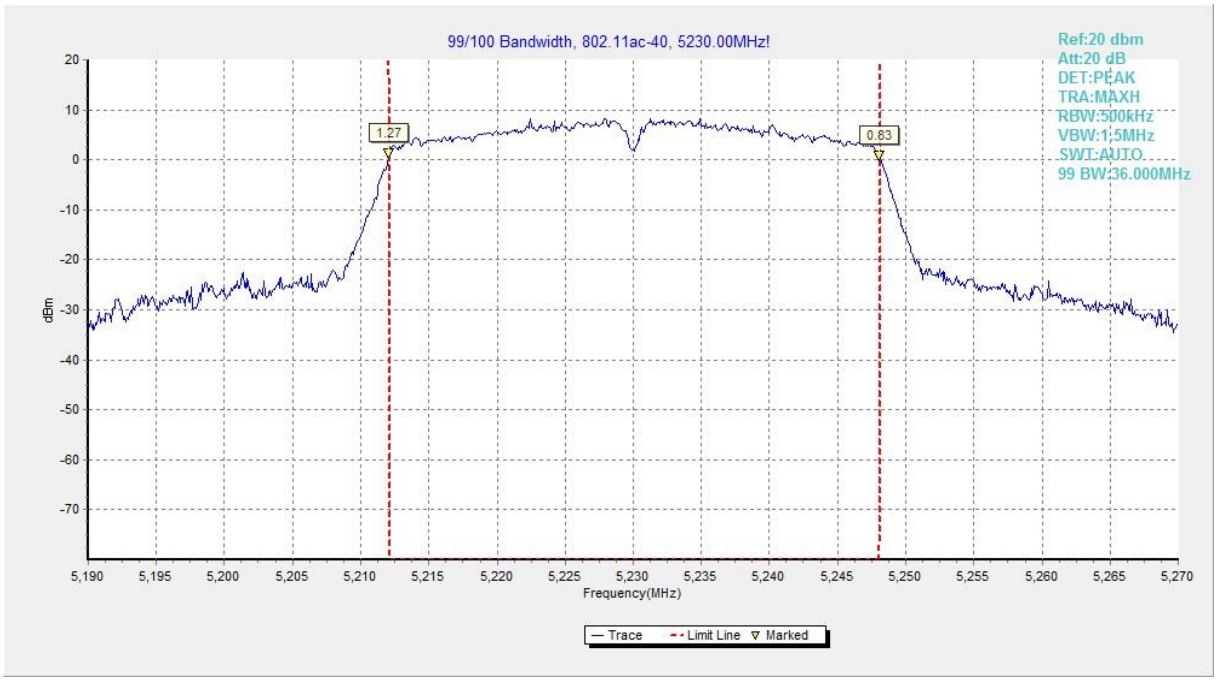


Fig. 74 99% Occupied bandwidth (802.11ac-HT40, 5230MHz)

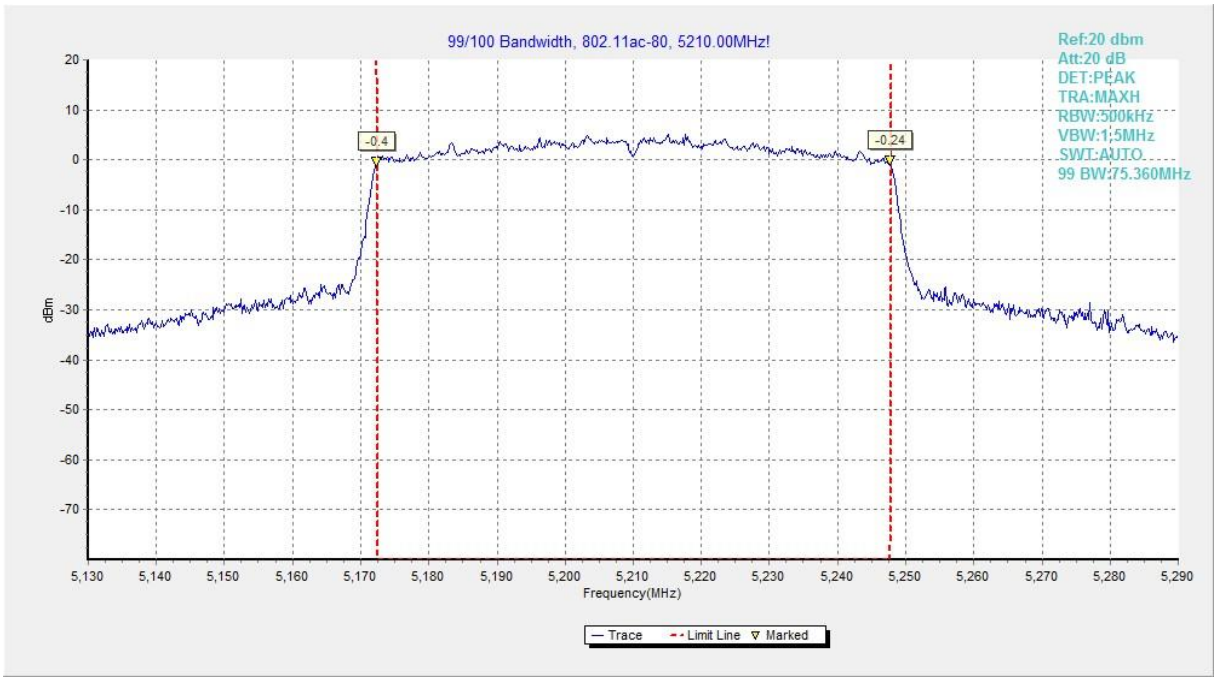


Fig. 75 99% Occupied bandwidth (802.11ac-HT80, 5210MHz)

A.10. Frequency Stability

Manufacturers ensured the EUT meet the requirement of frequency stability, such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

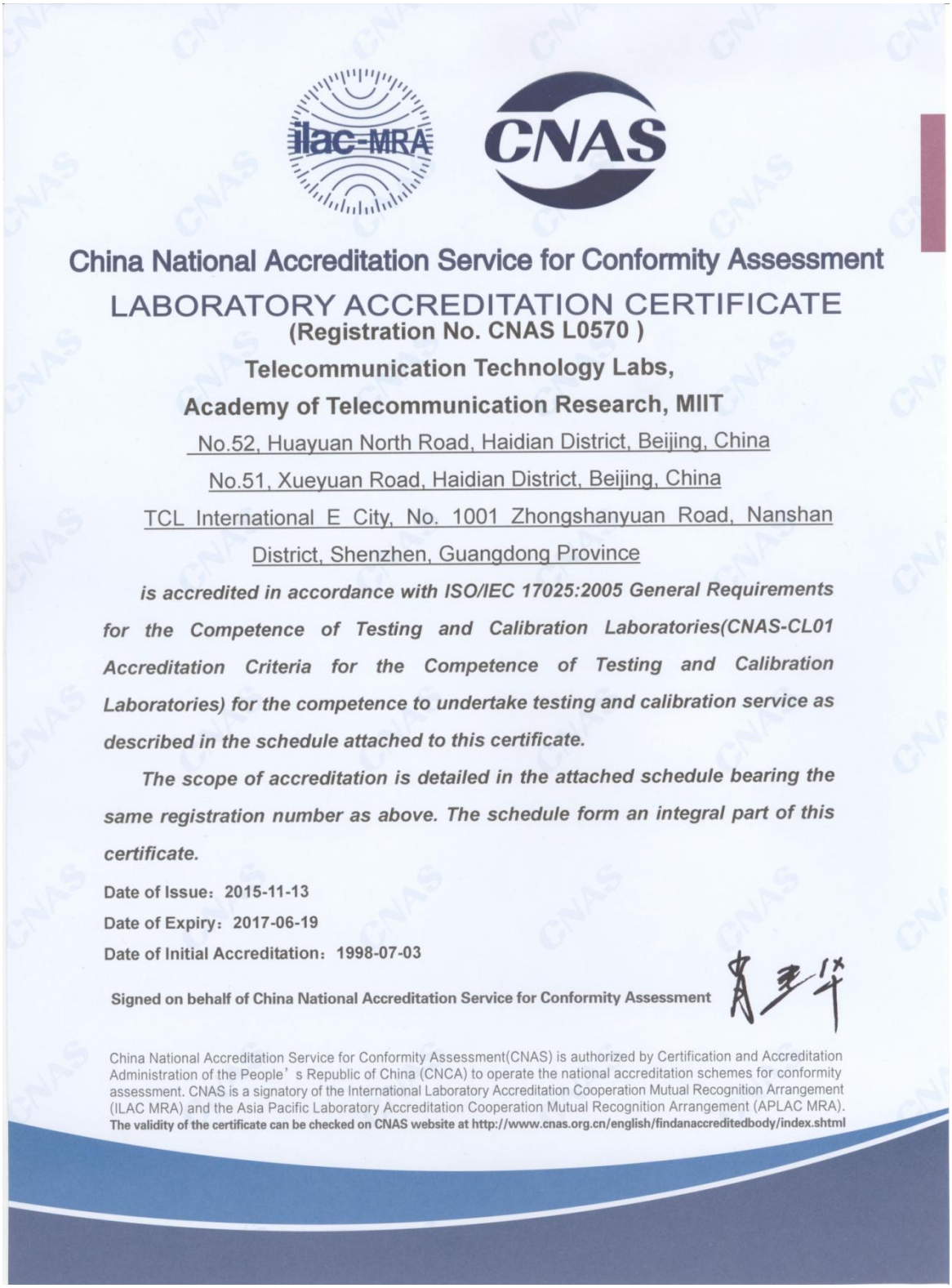
Measurement Result:

Mode	Channel	Test Condition		Result
802.11ac-HT40	5190 MHz	Tnom	Vnom	0.02
		Tmax	Vnom	
		Tmin	Vnom	
		Vmax	Tnom	
		Vmin	Tnom	
802.11ac-HT80	5290 MHz	Tnom	Vnom	0.06
		Tmax	Vnom	
		Tmin	Vnom	
		Vmax	Tnom	
		Vmin	Tnom	
802.11ac-HT80	5610 MHz	Tnom	Vnom	1.12
		Tmax	Vnom	
		Tmin	Vnom	
		Vmax	Tnom	
		Vmin	Tnom	

A.11. 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



China National Accreditation Service for Conformity Assessment

LABORATORY ACCREDITATION CERTIFICATE

(Registration No. CNAS L0570)

Telecommunication Technology Labs,

Academy of Telecommunication Research, MIIT

No.52, Huayuan North Road, Haidian District, Beijing, China

No.51, Xueyuan Road, Haidian District, Beijing, China

TCL International E City, No. 1001 Zhongshanyuan Road, Nanshan District, Shenzhen, Guangdong Province

is accredited in accordance with ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence to undertake testing and calibration service as described in the schedule attached to this certificate.

The scope of accreditation is detailed in the attached schedule bearing the same registration number as above. The schedule form an integral part of this certificate.

Date of Issue：2015-11-13

Date of Expiry：2017-06-19

Date of Initial Accreditation：1998-07-03

Signed on behalf of China National Accreditation Service for Conformity Assessment

China National Accreditation Service for Conformity Assessment(CNAS) is authorized by Certification and Accreditation Administration of the People's Republic of China (CNCA) to operate the national accreditation schemes for conformity assessment. CNAS is a signatory of the International Laboratory Accreditation Cooperation Mutual Recognition Arrangement (ILAC MRA) and the Asia Pacific Laboratory Accreditation Cooperation Mutual Recognition Arrangement (APLAC MRA).

The validity of the certificate can be checked on CNAS website at http://www.cnas.org.cn/english/findanaccreditedbody/index.shtml

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

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