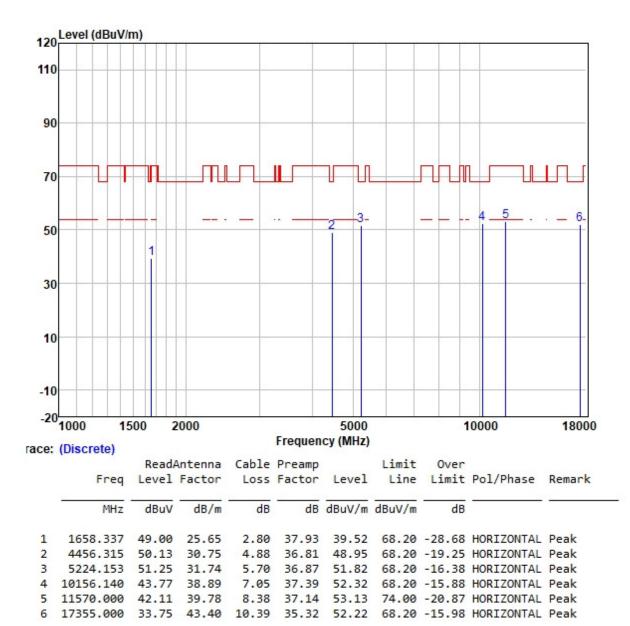


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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: middle





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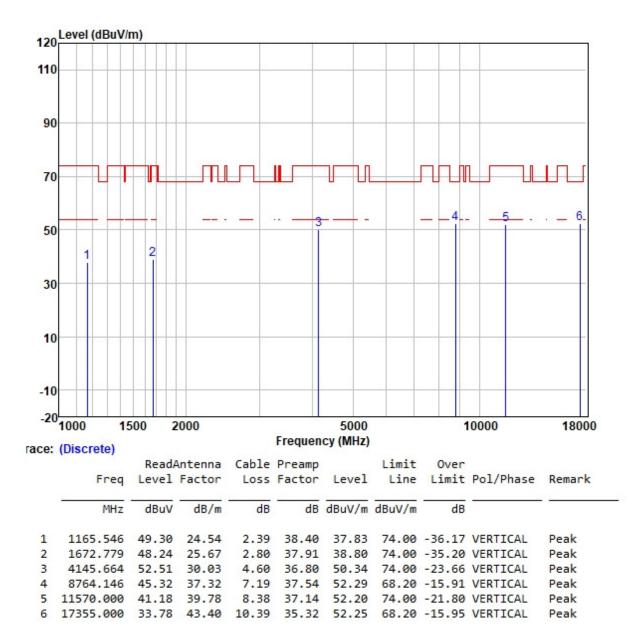
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: middle





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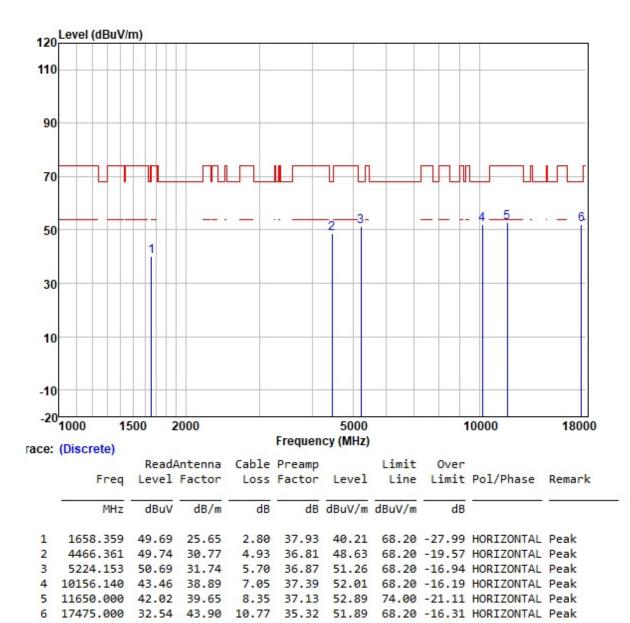
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: High





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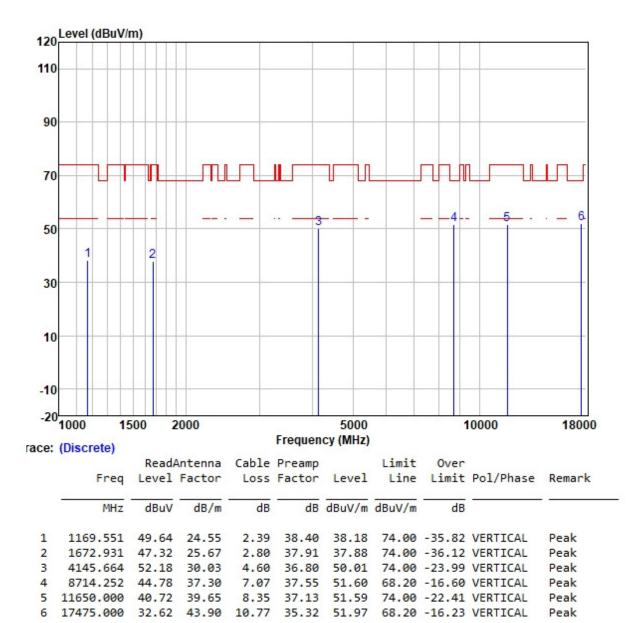
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: High





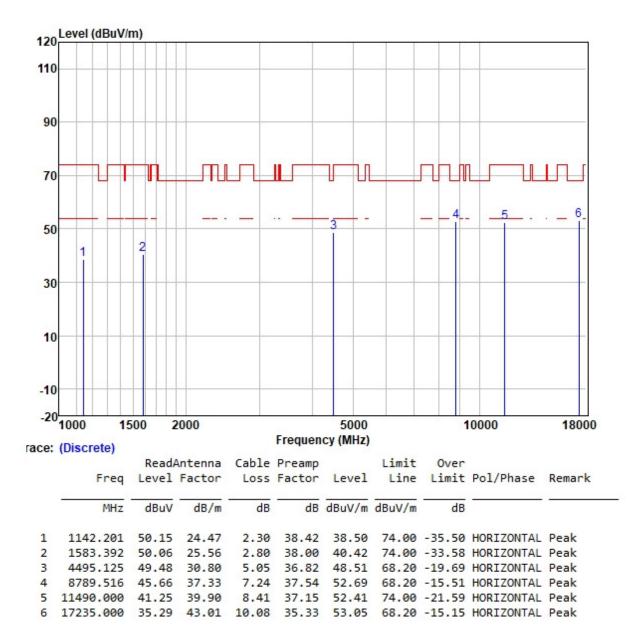
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: Low





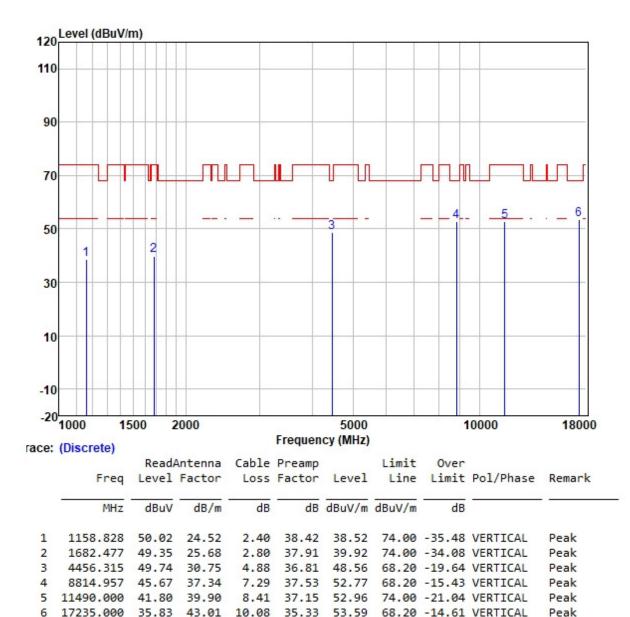
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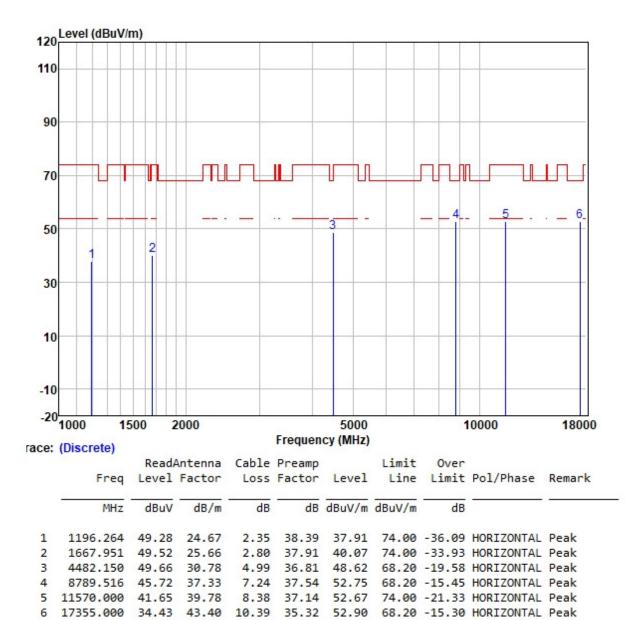
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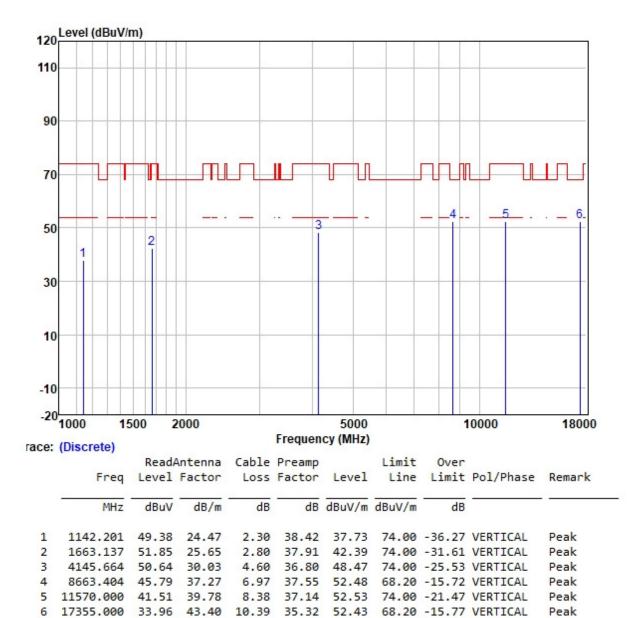
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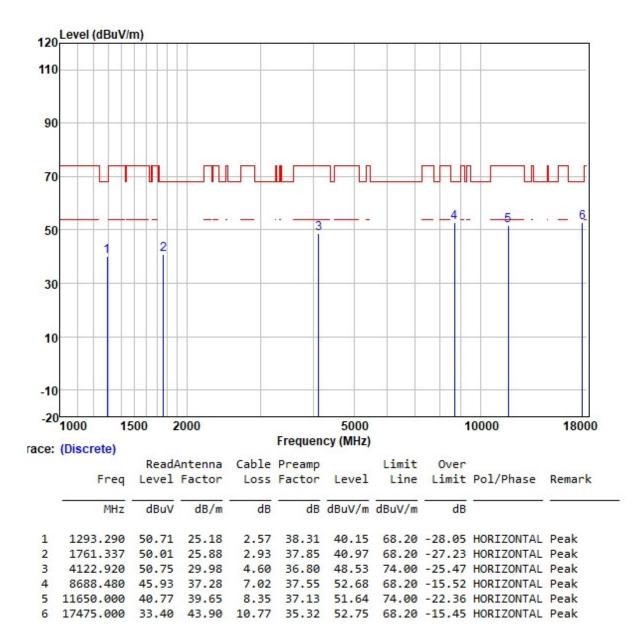
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel: High





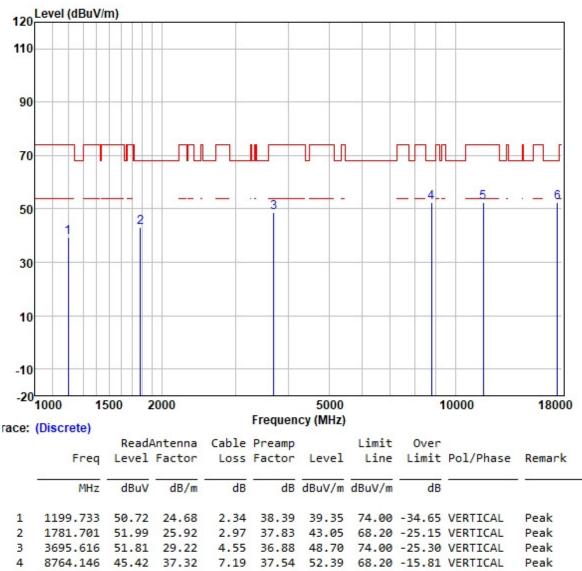
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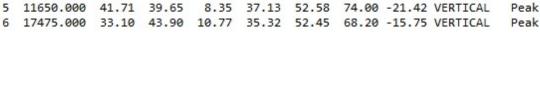
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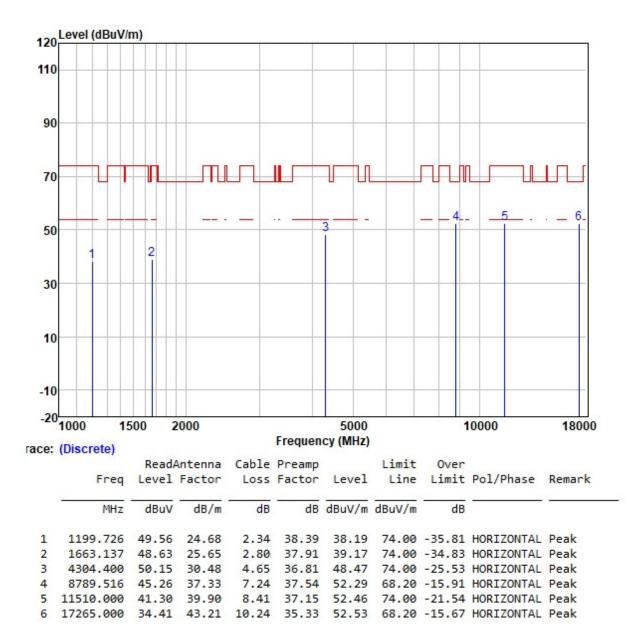
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel: Low





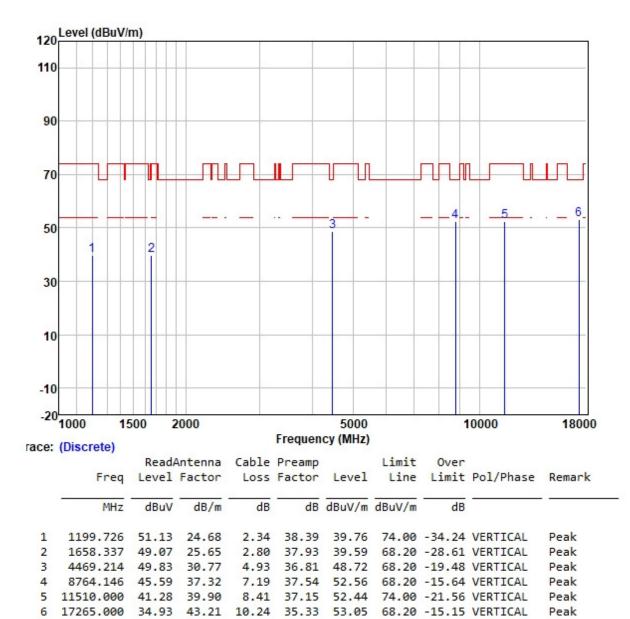
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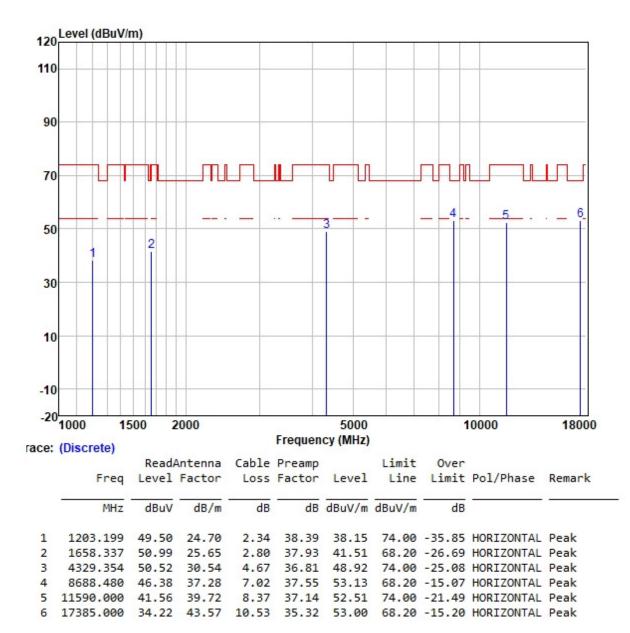
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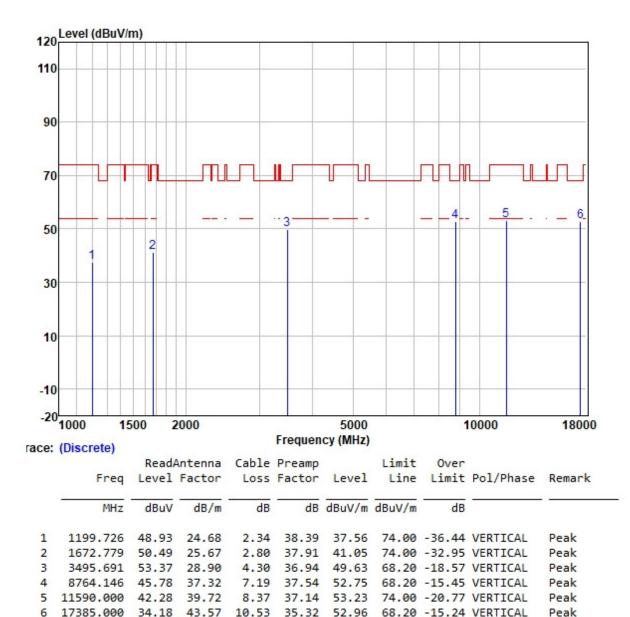
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7.10 Radiated Emissions (below 1GHz)

Test Requirement47 CFR Part 15, Subpart C 15.209 & 15.407(b)Test Method:KDB 789033 D02 II GMeasurement Distance:10m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



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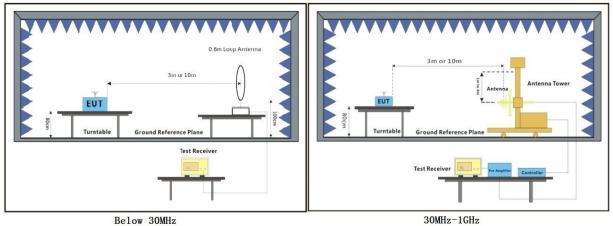
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7.10.1 E.U.T. Operation

7.

		oración						
	Operating E	nvironment	:					
	Temperature	e: 22.9	0°C	Humidity:	53.9 % RH	Atmospheric Pressure:	1003	mbar
.10.	2 Test Mod	e Descripti	on					
	Pre-scan / Final test	Mode Code	Descript	ion				
	Pre-scan	01	modulati and four rate @ N is the w	on types. Al nd the data MCS0 is the	Il data rates for ea rate @ 6Mbps is worst case of IEE IEEE 802.11n(H	continuously transmitting ach modulation type have the worst case of IEEE & EE 802.11n(HT20); data r IT40). Only the data of y	e been 302.11a rate @	tested a; data MCS0
	Final test	02	modulati and four rate @ N is the w	on types.All nd the data MCS0 is the	data rates for ea rate @ 6Mbps is worst case of IEE IEEE 802.11n(H	continuously transmitting ach modulation type have the worst case of IEEE 8 EE 802.11n(HT20); data r IT40). Only the data of v	e been 1 302.11a rate @ I	tested a; data MCS0

7.10.3 Test Setup Diagram





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7.10.4 Measurement Procedure and Data

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b.The EUT was set 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

g. Test the EUT in the lowest channel, the middle channel, the Highest channel.

h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

2. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.

3. Scan from 9kHz to 1GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



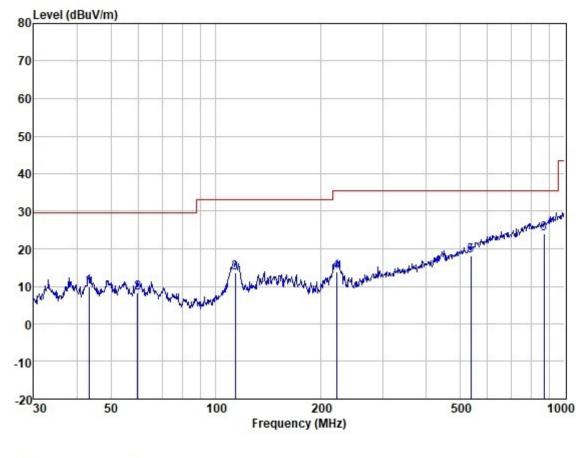
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel: Middle



Site	: SGS
Job	:
Model	:
Power	:
Test Mode	: 02

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	43.202	28.39	13.34	1.12	32.98	9.87	29.50	-19.63	HORIZONTAL	QP
2	59.649	27.02	12.93	1.25	33.00	8.20	29.50	-21.30	HORIZONTAL	QP
3	113.714	34.40	10.40	1.82	33.00	13.62	33.10	-19.48	HORIZONTAL	QP
4	221.392	34.44	9.71	2.65	33.02	13.78	35.60	-21.82	HORIZONTAL	QP
5	537.589	28.66	18.22	4.70	33.34	18.24	35.60	-17.36	HORIZONTAL	QP
6	872.183	27.44	22.24	6.71	32.47	23.92	35.60	-11.68	HORIZONTAL	QP



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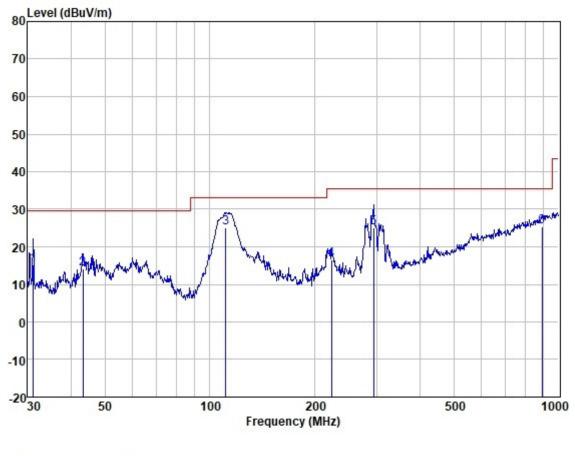
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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel: Middle



Site	: SGS
Job	:
Model	:
Power	:
Test Mode	: 02

	Freq					Measured Level			Pol/ Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	31.180	35.23	11.84	1.03	32.94	15.16	29.50	-14.34	VERTICAL	QP
2	43.202	32.67	13.34	1.12	32.98	14.15	29.50	-15.35	VERTICAL	QP
3	110.957	46.18	10.14	1.80	33.00	25.12	33.10	-7.98	VERTICAL	QP
4	222.950	37.25	9.74	2.67	33.02	16.64	35.60	-18.96	VERTICAL	QP
5	294.114	42.01	13.07	3.15	33.09	25.14	35.60	-10.46	VERTICAL	QP
6	893.857	27.46	23.24	6.86	32.34	25.22	35.60	-10.38	VERTICAL	QP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D3: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
43.202	9.87	3.12	10.38	20.33	40	-19.67	Н
59.649	8.20	2.57	8.57	18.66	40	-21.34	Н
113.714	13.62	4.80	15.99	24.08	43.5	-19.42	Н
221.392	13.78	4.89	16.29	24.24	46	-21.76	Н
537.589	18.24	8.17	27.22	28.70	46	-17.30	Н
872.183	23.92	15.70	52.35	34.38	46	-11.62	Н
31.180	15.16	5.73	19.09	25.62	40	-14.38	V
43.202	14.15	5.10	17.00	24.61	40	-15.39	V
110.957	25.12	18.03	60.10	35.58	43.5	-7.92	V
222.950	16.64	6.79	22.64	27.10	46	-18.90	V
294.114	25.14	18.07	60.24	35.60	46	-10.40	V
893.857	26.22	20.46	68.21	36.68	46	-9.32	V



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7.11 Frequency Stability

Test Requirement	47 CFR Part 15, Subpart C 15.407 (g)
Test Method:	ANSI C63.10 (2013) Section 6.8

7.11.1 E.U.T. Operation

Operating Enviro	nment:				
Temperature:	22.8 °C	Humidity:	54.1 % RH	Atmospheric Pressure: 1003 mba	r

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.



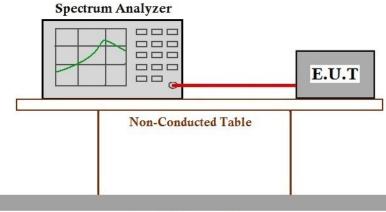
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7.11.3 Test Setup Diagram



Ground Reference Plane

7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details

The applicant declares that the emissions are maintained within the band of operation under all conditions of normal operation as specified in the user's manual and meets Section 15.407(g) requirements.



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8 **Test Setup Photo**

Refer to Appendix - Test Setup Photo for GZCR2206000734AT

EUT Constructional Details (EUT Photos) 9

Refer to Appendix - External and Internal Photos for GZCR2206000734AT



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10 Appendix

- 1. Duty Cycle
- 1.1 Ant0
- 1.1.1 Test Result

	AntO									
Mode	ТХ Туре	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)			
		5180	2.064	2.099	98.33	0.07	0.03			
		5200	2.064	2.099	98.33	0.07	0.03			
902 110		5240	2.064	2.099	98.33	0.07	0.00			
802.11a	SISO	5745	2.065	2.100	98.33	0.07	0.03			
		5785	2.064	2.099	98.33	0.07	0.03			
		5825	2.064	2.100	98.29	0.08	0.07			
			5180	1.920	1.955	98.21	0.08	0.03		
		5200	1.920	1.955	98.21	0.08	0.03			
802.11n	MIMO	5240	0.984	1.019	96.57	0.15	0.03			
(HT20)		5745	0.985	1.019	96.66	0.15	0.03			
		5785	0.984	1.019	96.57	0.15	0.03			
		5825	0.985	1.019	96.66	0.15	0.03			
		5190	0.496	0.530	93.58	0.29	0.03			
802.11n		5230	0.497	0.531	93.60	0.29	0.03			
(HT40)	MIMO	5755	0.498	0.531	93.79	0.28	0.06			
		5795	0.496	0.530	93.58	0.29	0.06			



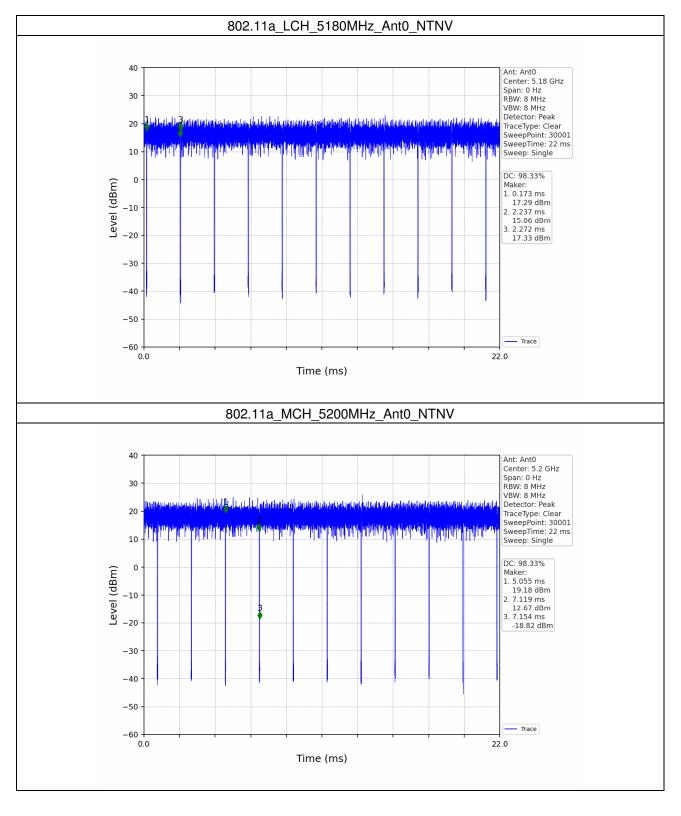
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1.1.2 Test Graph





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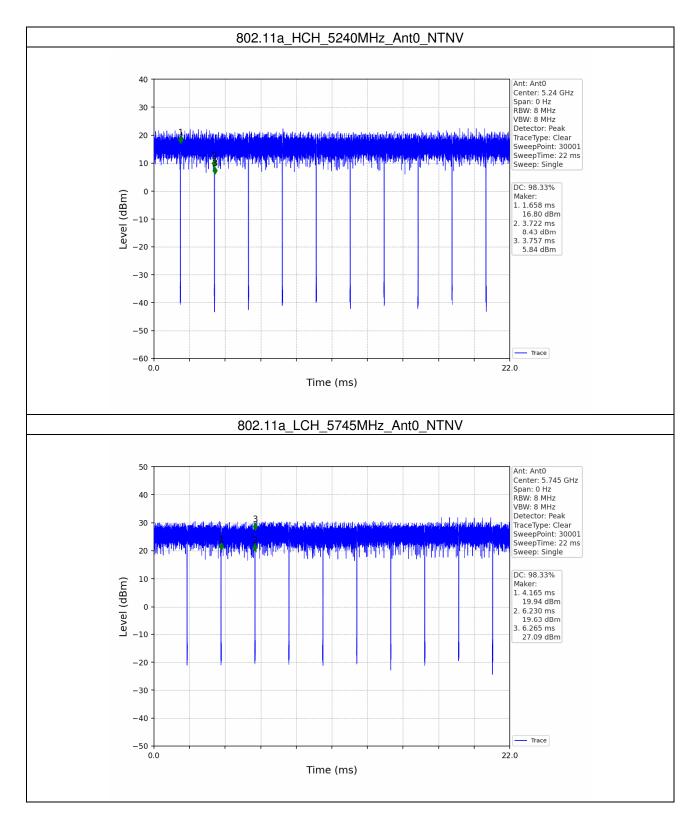
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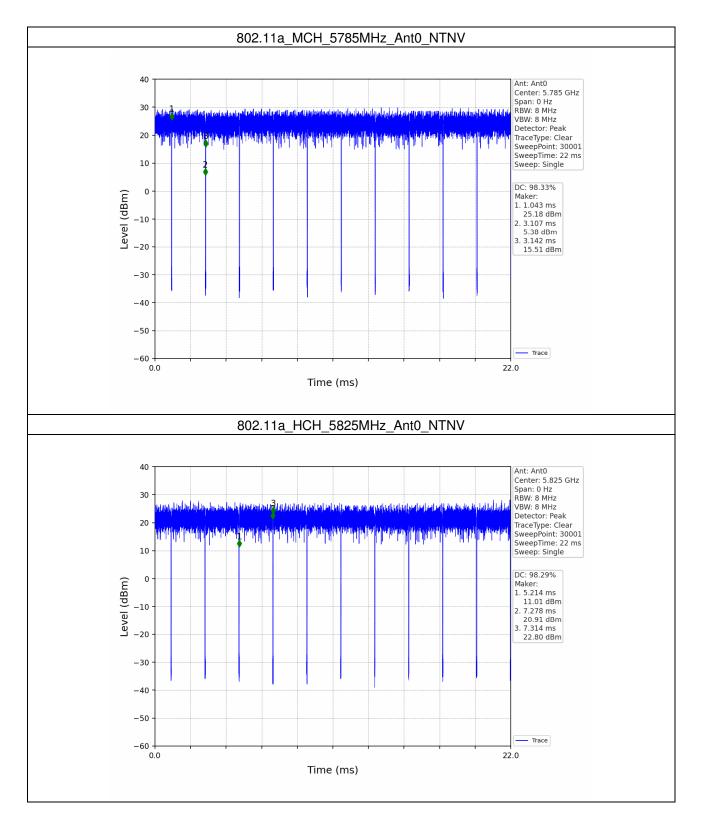
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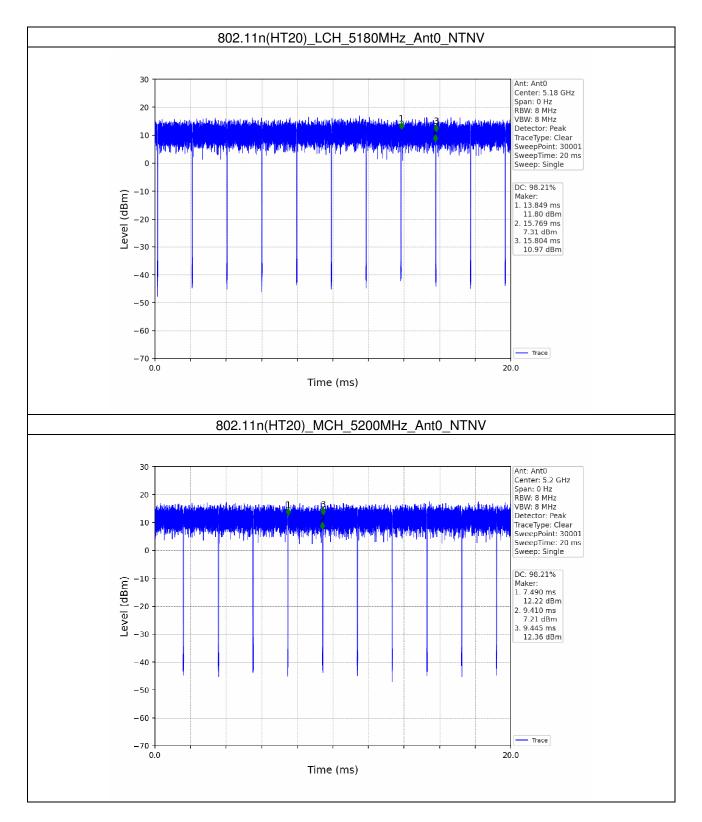
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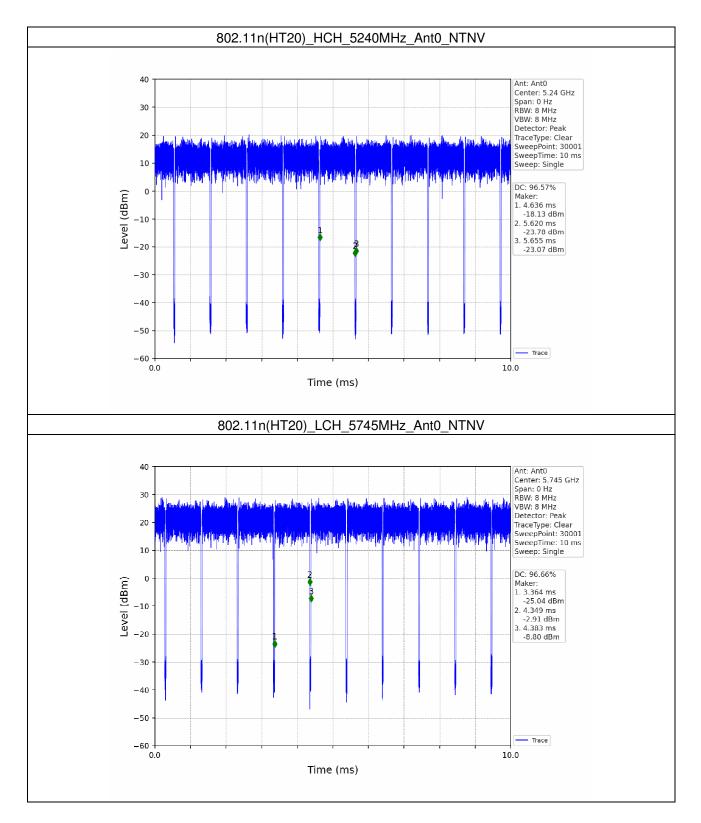
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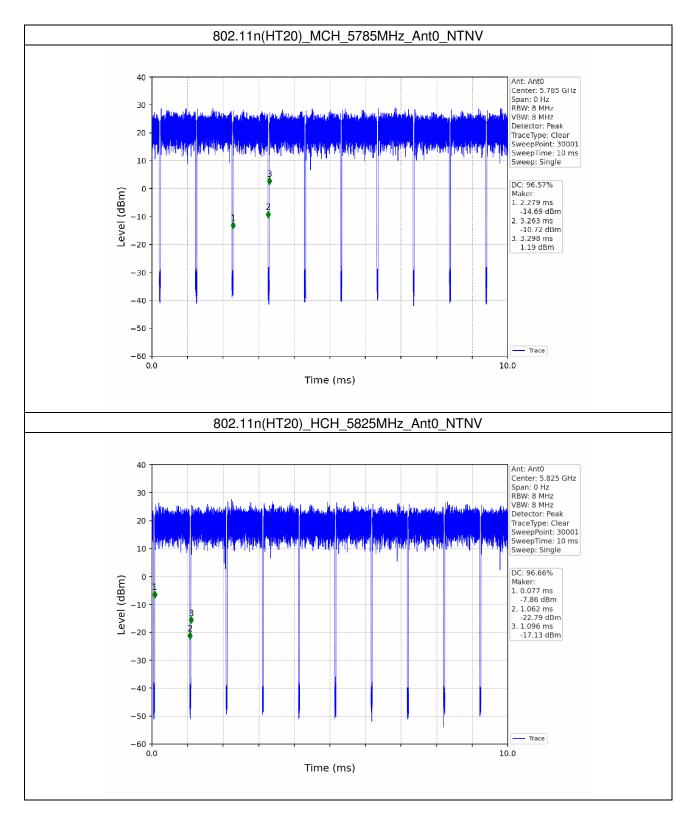
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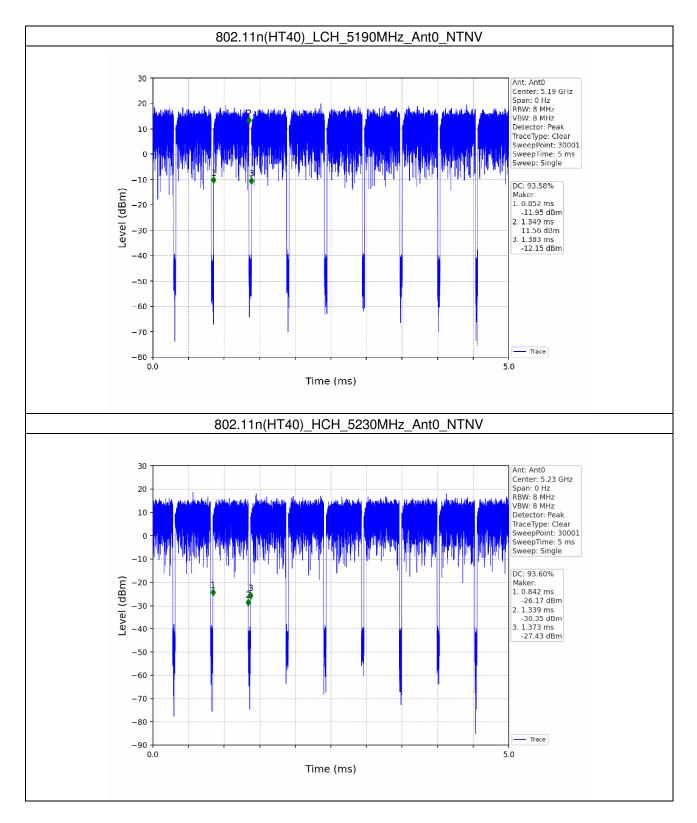
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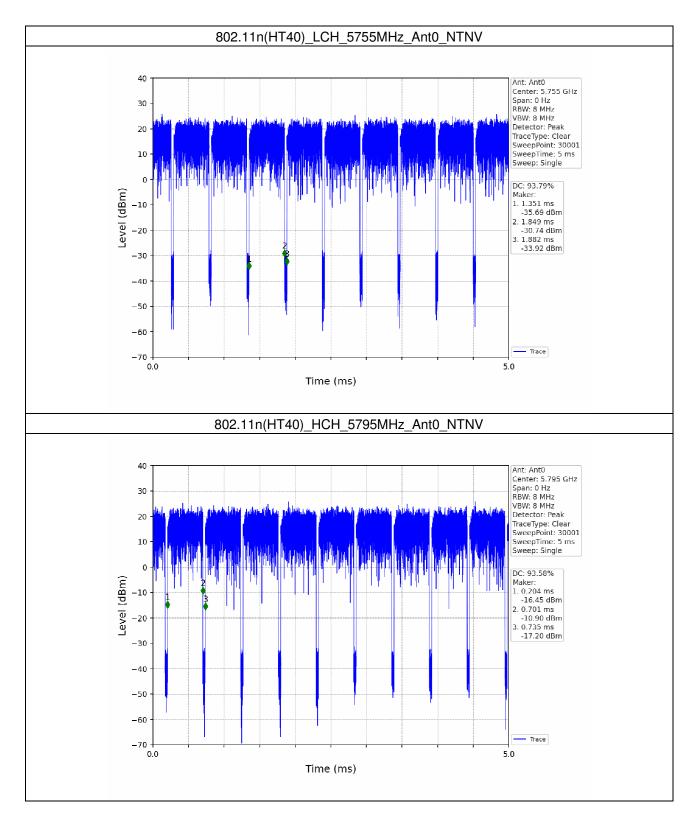
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

Mode	ТХ	Frequency	ANT	99% Occupied Bandwidth (MHz)	Verdict
wode	Туре	(MHz)	ANT	Result	verdici
		5180	0	18.467	Pass
		5200	0	17.594	Pass
000 110		5240	0	17.617	Pass
802.11a	SISO	5745	0	17.845	Pass
		5785	0	17.715	Pass
		5825	0	17.622	Pass
		5180	0	18.410	Pass
		5200	0	18.418	Pass
802.11n		5240	0	18.200	Pass
(HT20)	MIMO	5745	0	18.248	Pass
		5785	0	18.226	Pass
		5825	0	18.168	Pass
		5190	0	37.258	Pass
802.11n	MIMO	5230	0	37.110	Pass
(HT40)		5755	0	37.338	Pass
		5795	0	37.435	Pass



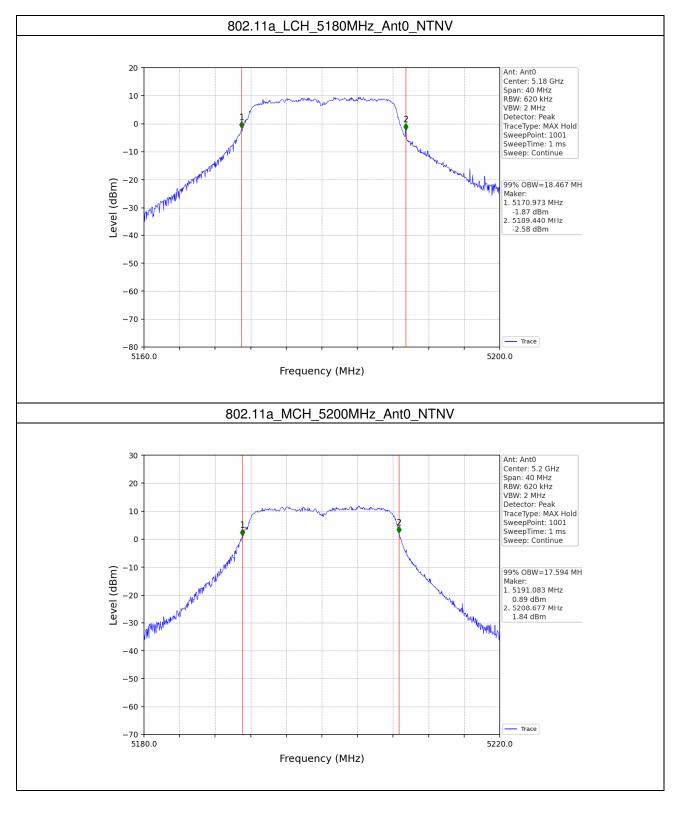
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2.1.2 Test Graph





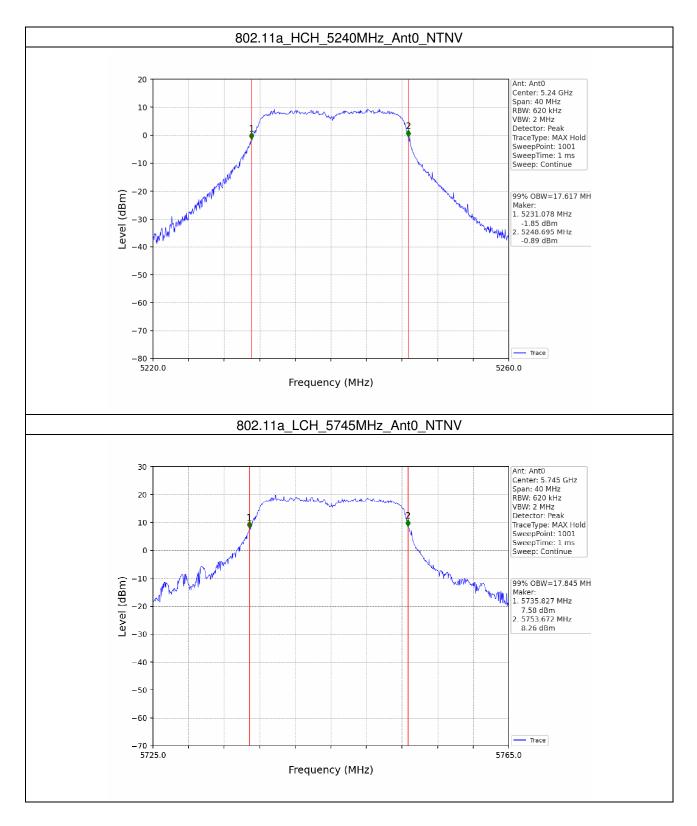
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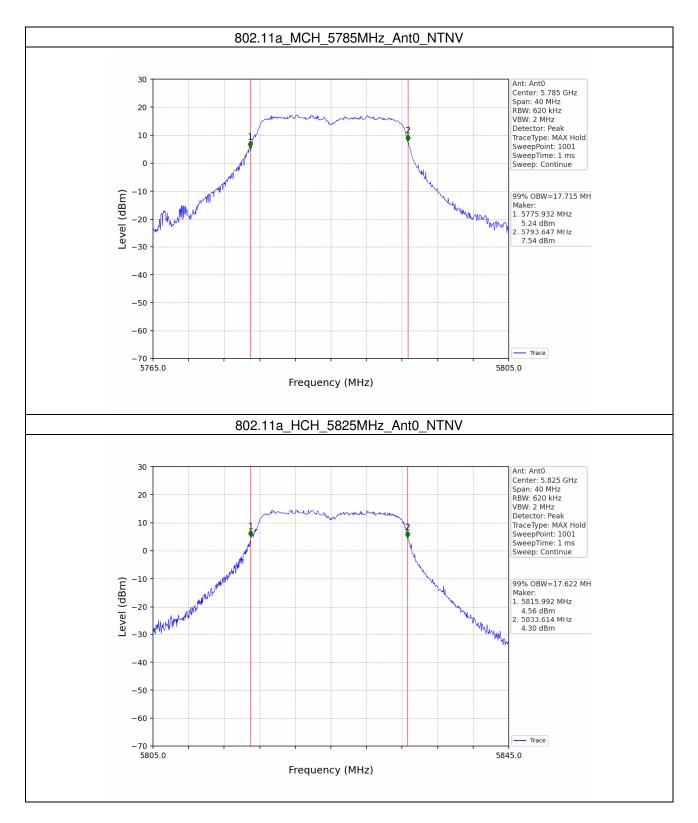
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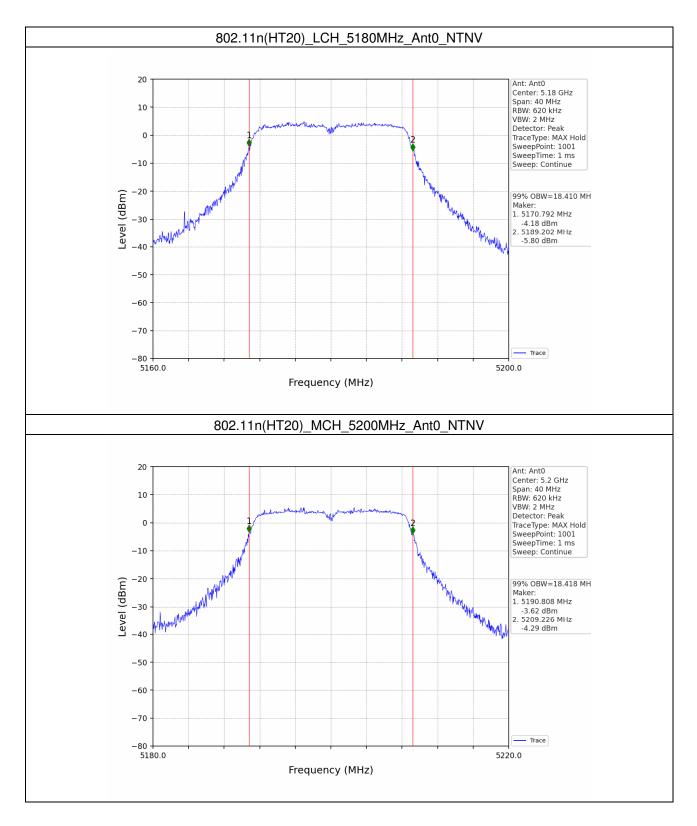
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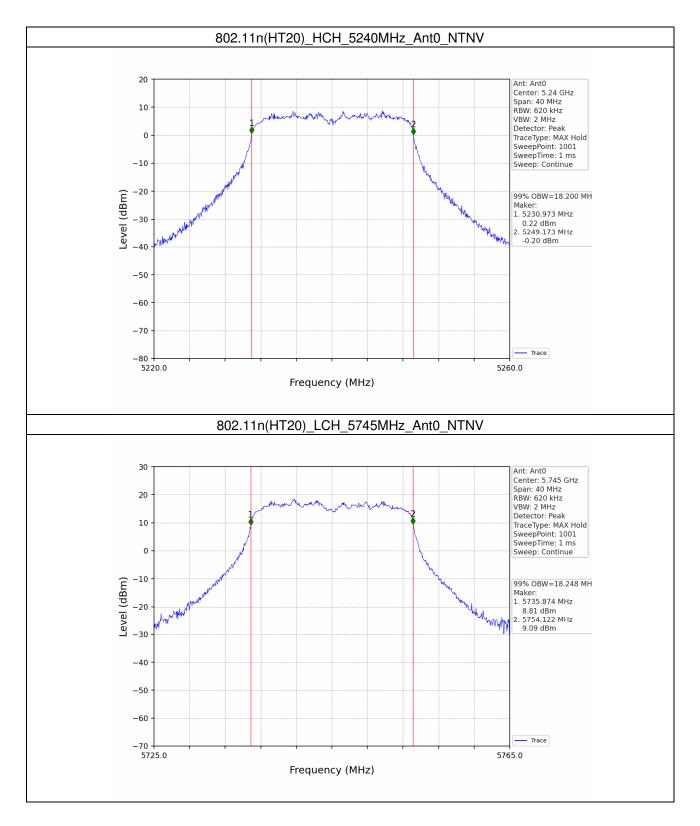
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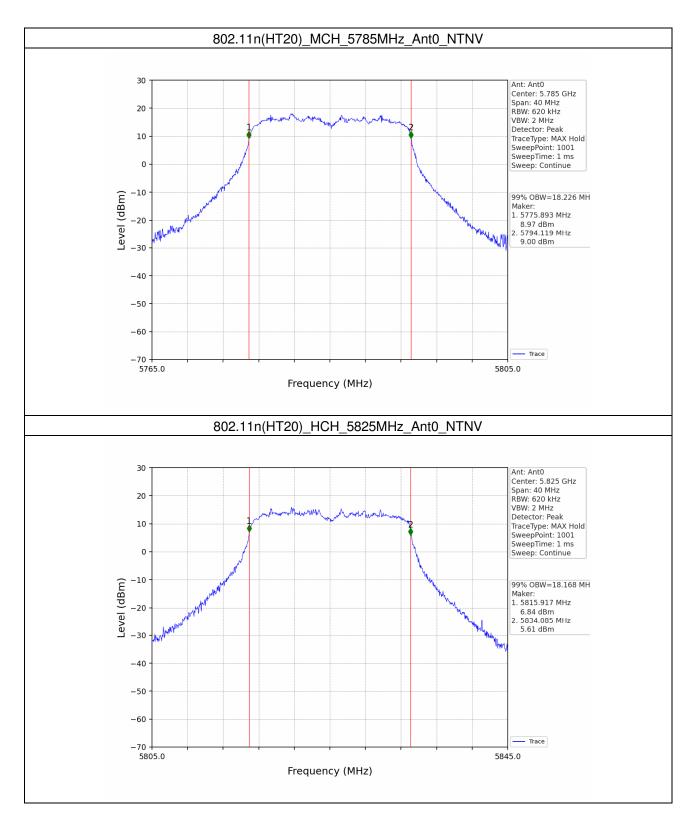
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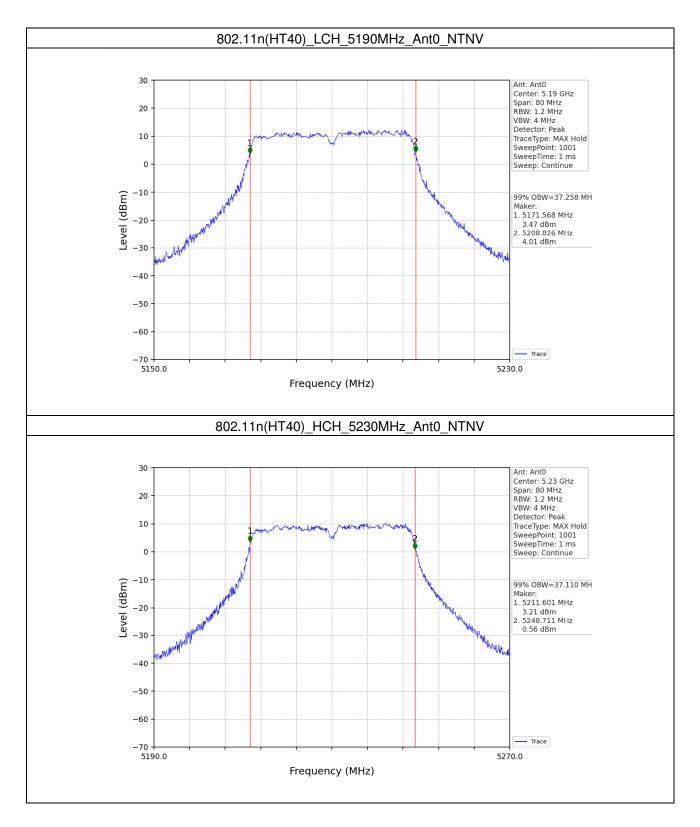
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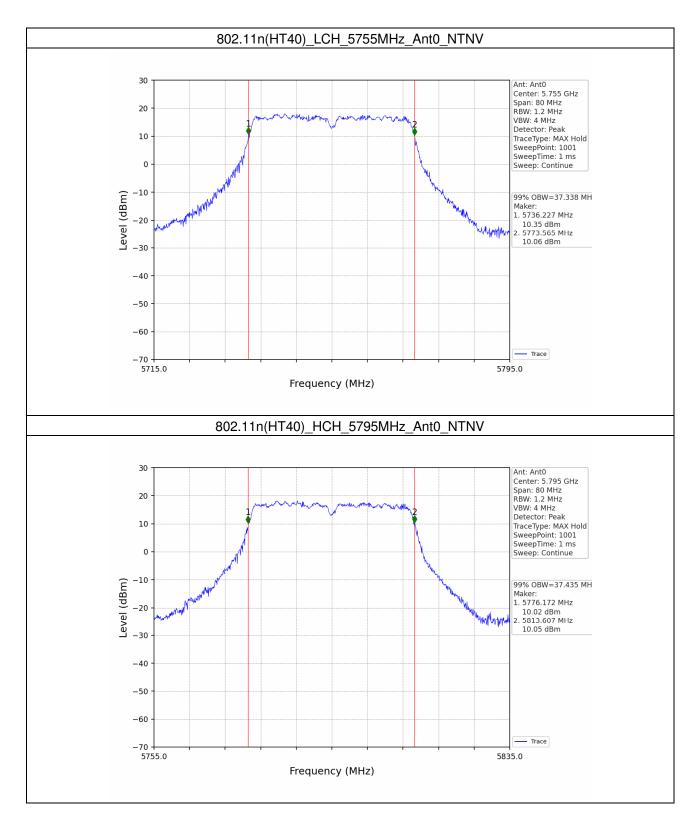
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2.2 6dB BW

2.2.1 Test Result

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Vordiat
				Result	Limit	Verdict
802.11a	SISO	5745	0	16.311	>=0.5	Pass
		5785	0	16.340	>=0.5	Pass
		5825	0	16.340	>=0.5	Pass
802.11n (HT20)	MIMO	5745	0	17.653	>=0.5	Pass
		5785	0	17.603	>=0.5	Pass
		5825	0	17.614	>=0.5	Pass
802.11n (HT40)	MIMO	5755	0	35.525	>=0.5	Pass
		5795	0	35.536	>=0.5	Pass



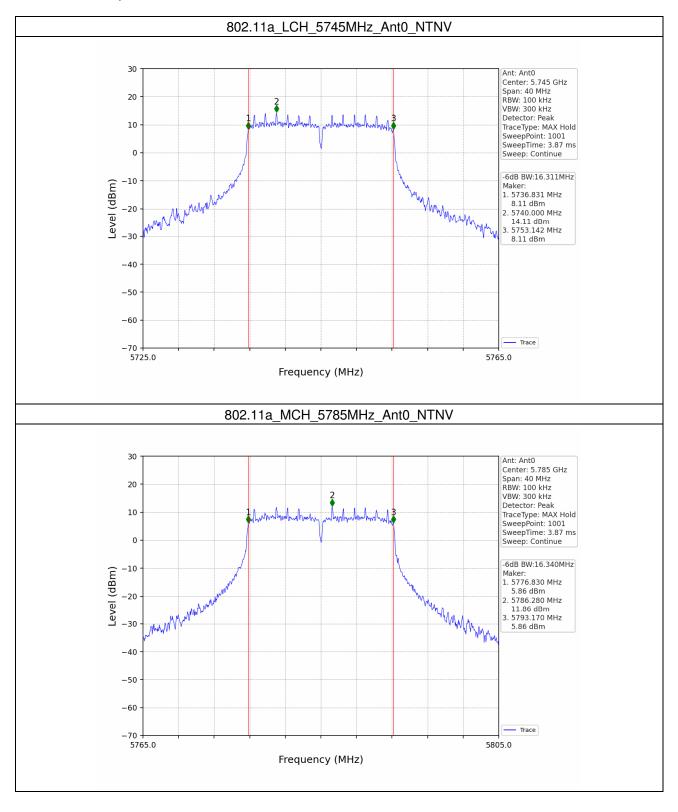
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2.2.2 Test Graph



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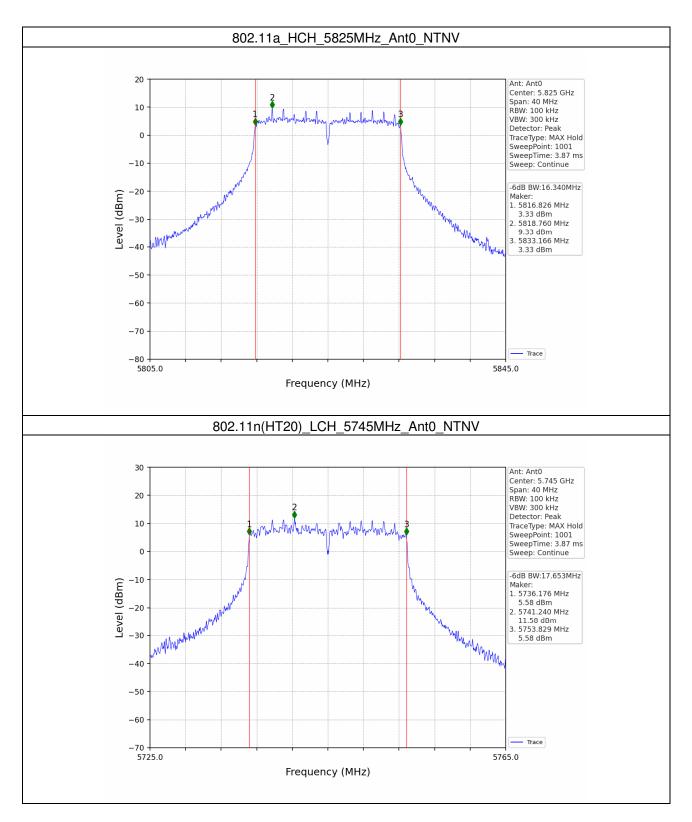
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检验检测专用章 on & Testing Service

Guanozho



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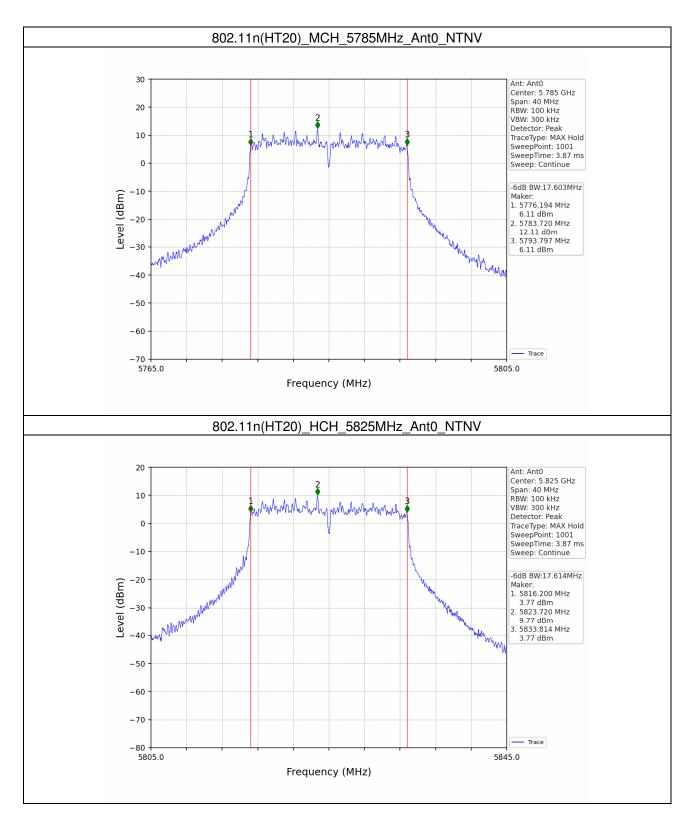
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