

7. OUTPUT POWER TEST

7.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.18,15	1Year
2.	Power meter	Anritsu	ML2487A	6K00002472	Apr.28, 15	1Year
3.	Power sensor	Anritsu	MA2491A	0033005	Apr.28, 15	1Year
4.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr.28, 15	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX102	28620/2	Apr.28, 15	1 Year

7.2.Limit

For the band 5.15–5.25 GHz.

For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the max-imum antenna gain does not exceed 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

7.3.Test Procedure

- 1. Connected the EUT's antenna port to measure device by 26dB attenuator.
- 2. For IEEE 802.11a and IEEE802.11n HT20 and 802.11ac VHT20 mode, use a PK power meter which's bandwidth is 20MHz and above 26dB bandwidth of signal to measure out each test modes' PK output power.
- 3. For IEEE802.11n HT40 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A. So use the test method described in KBD789033 clause E Method SA-1
 - 1) Connect the antenna port to the spectrum analyzer and Set span of the spectrum to encompass the entire emission bandwidth (EBW) of the signal.
 - 2) Set the RBW=1MHz and VBW =3MHz
 - 3) Number of points in sweep ≥ 2 Span / RBW
 - 4) Detector = RMS
 - 5) Sweep time = auto couple
 - 6) Allow the sweep to "free run" and set the Trace average at least 100 traces in power averaging (i.e., RMS) mode.
 - 7) Compute power by integrating the spectrum across the 26 dB EBW of the signal using the instrument's band power measurement function with band limits set equal to the EBW band edges.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.



7.4. Test Results

5180-5240MHz Band:

EUT: Tablet P	C				
M/N: AT10-C					
Test date: 2015-11-22		Pressure:101.8±1.0 kpa		Humidity:53.	3±3.0%
Tested by: Alic	ce_Yang	Test site: RF	site	Temperature:	2.7±0.6 ℃
Test	Frequency (MHz)	Maximui	n Conducted or (dBm)	utput power	Limit
Mode	(MHZ)	ANT1	ANT2	Total	(dBm)
	5180	12.39	11.25	N/A	24
11a	5200	12.45	11.10	N/A	24
	5240	12.58	11.46	N/A	24
	5180	12.31	11.10	14.76	24
11n HT20	5200	12.16	10.95	14.61	24
	5240	12.38	11.60	15.02	24
11n HT40	5190	12.97	12.04	15.54	24
1111 11140	5230	13.05	12.18	15.65	24
	5180	11.98	11.67	14.84	24
11ac VHT20	5200	11.95	11.67	14.82	24
	5240	12.14	11.82	14.99	24
1100 VUT40	5190	12.40	11.98	15.21	24
11ac VHT40	5230	12.67	12.06	15.39	24
11ac VHT80	5210	10.57	10.02	13.31	24
Conclusion: PA	SS				



5260-5320MHz Band:

EUT: Tablet PC		
M/N: AT10-C		
Test date: 2015-11-22	Pressure: 101.8±1.0 kpa	Humidity:53.2±3.0%
Tested by: Alice_Yang	Test site: RF site	Temperature:22.9±0.6 ℃

Test	Frequency	(113111)		Limit	
Mode	(MHz)	ANT1	ANT2	Total	(dBm)
	5260	12.17	11.24	N/A	24
11a	5300	12.05	11.35	N/A	24
	5320	12.20	11.39	N/A	24
	5260	11.90	11.41	14.67	24
11n HT20	5300	11.84	11.34	14.61	24
	5320	11.90	11.30	14.62	24
11n HT40	5270	12.48	11.84	15.18	24
11n H140	5310	12.71	12.05	15.40	24
	5260	11.68	11.50	14.60	24
11ac VHT20	5300	11.99	11.48	14.75	24
	5320	11.99	11.61	14.81	24
11ac VHT40	5270	12.22	11.77	15.01	24
	5310	12.32	11.92	15.14	24
11ac VHT80	5290	10.28	10.14	13.22	24
Conclusion: PASS					



5500-5700MHz Band:

EUT: Tablet PC	1 /				
M/N: AT10-C					
Test date: 2015-11-22		Pressure: 101.6±1.0 kpa		Humidity:53.4±	3.0%
Tested by: Alice_Yang		Test site: R	F site	Temperature:22	2.1±0.6 ℃
Test	Frequency	Maximui	m Conducted ou (dBm)	itput power	Limit
Mode	(MHz)	ANT1	ANT2	Total	(dBm)
	5500	11.88	12.10	N/A	24
11a	5600	11.57	11.88	N/A	24
	5700	10.84	11.28	N/A	24
	5500	10.59	12.01	14.82	24
11n HT20	5600	11.31	11.88	14.61	24
	5700	10.49	11.05	14.62	24
	5510	12.22	12.92	15.59	24
11n HT40	5590	12.08	12.52	15.32	24
	5670	11.37	11.85	14.63	24
	5500	11.97	12.28	15.14	24
11ac VHT20	5600	11.51	12.05	14.80	24
	5700	10.95	11.45	14.22	24
	5510	12.30	12.57	15.45	24
11ac VHT40	5590	12.11	12.37	15.25	24
	5670	11.45	11.72	14.60	24
11ac VHT80	5530	10.37	10.81	13.61	24



5745-5825MHz Band:

EUT: Tablet Po	С				
M/N: AT10-C					
Test date: 2015-11-22		Pressure: 10	01.6±1.0kpa	Humidity:532	.8±3.0%
Tested by: Alic	ce_Yang	Test site: R	F site	Temperature:2	22.7±0.6 ℃
Test	Frequency	Maximui	m Conducted or (dBm)	utput power	Limit
Mode	(MHz)	ANT1	ANT2	Total	(dBm)
	5745	11.27	12.12	N/A	29.86
11a	5785	11.03	11.82	N/A	29.86
	5825	10.6	11.61	N/A	29.86
	5745	11.02	11.77	14.42	29.86
11n HT20	5785	10.47	11.66	14.12	29.86
	5825	10.44	11.38	13.95	29.86
11n HT40	5755	11.62	12.47	15.08	29.86
111111140	5790	11.08	12.22	14.70	29.86
	5745	11.32	11.96	14.66	29.86
11ac VHT20	5785	11.26	11.76	14.53	29.86
	5825	10.81	11.54	14.20	29.86
11ac VHT40	5755	11.71	12.33	15.04	29.86
11ac vn140	5795	11.73	12.08	14.92	29.86
11ac VHT80	5775	9.89	10.31	13.12	29.86
Conclusion: PA	ASS				

Note: 11ac/n Mode

Directional Gain= $10 \log[(10^{2.84/20} + 10^{3.41/20})^2/2]dBi$

=6.14dBi>6dBi

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5180-5240MHz Band: ANT 0 11n HT40 5190MHz 5230MHz Center Free Center Free \$.230000000 GH Res BW 1 MHz Span 55.5 MHz #Sweep 1 s Span 55.5 MHz #Sweep 1 s #VBW 3 MHz #VBW 3 MHz Channel Power Power Spectral Density Channel Power Power Spectral Density 12.97 dBm / 37 MHz -62.72 dBm /Hz 12.67 dBm / 37 MHz -63.01 dBm /Hz 11ac VHT80 5210MHz 5230MHz Center Free Center Fre Span 55.5 MHz #Sweep 1 s #VBW 3 MHz #VBW 3 MHz Channel Power Power Spectral Density Power Spectral Density Channel Power 10.57 dBm / 78 MHz 13.05 dBm / 37 MHz -62.63 dBm /Hz -68.35 dBm /Hz 11acVHT40 5190MHz Ref Offset 10.5 dB Ref 15.00 dBm Span 55.5 MHz #Sweep 1 s #VBW 3 MHz Power Spectral Density Channel Power 12.40 dBm / 37 MHz -63.28 dBm /Hz

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5180-5240MHz Band: ANT 1 11n HT40 5190MHz 5230MHz Center Free Center Free \$.230000000 GH enter 5.19 GHz Res BW 1 MHz Span 55.5 MHz #Sweep 1 s #VBW 3 MHz #VBW 3 MHz Channel Power Power Spectral Density Channel Power Power Spectral Density 12.04 dBm / 37 MHz -63.64 dBm /Hz 12.06 dBm / 37 MHz -63.62 dBm /Hz 11ac VHT80 5210MHz 5230MHz Center Free Center Free enter 5.23 GHz Res BW 1 MHz Span 55.5 MHz #Sweep 1 s #VBW 3 MHz #VBW 3 MHz Channel Power Power Spectral Density Channel Power Power Spectral Density 12.18 dBm / 37 MHz -63.50 dBm /Hz 10.02 dBm / 78 MHz -68.90 dBm /Hz 11acVHT40 5190MHz Ref Offset 10.5 dB Ref 15.00 dBm Span 55.5 MHz #Sweep 1 s #VBW 3 MHz Power Spectral Density Channel Power 11.98 dBm / 37 MHz -63.70 dBm /Hz

FCC ID:ZW9-PDA0N **5260-5320MHz Band:** ANT 0 11n HT40 5270MHz 5310MHz Center Freq \$.270000000 GHz Center Fred 8.310000000 GH Span 55.5 MHz #Sweep 1 s Center 5.31 GHz FRes BW 1 MHz Span 55.5 MHz #Sweep 1 s #VBW 3 MHz #VBW 3 MHz Channel Power Power Spectral Density Channel Power Power Spectral Density 12.48 dBm / 37 MHz -63.20 dBm /Hz 12.32 dBm / 37 MHz -63.36 dBm /Hz **11ac VHT80** 5290MHz 5310MHz Center Free enter 5.31 GHz Res BW 1 MHz Span 55.5 MHz #Sweep 1 s #VBW 3 MHz #VBW 3 MHz Channel Power Power Spectral Density Channel Power Power Spectral Density 12.71 dBm / 37 MHz -62.98 dBm /Hz 10.28 dBm / 78 MHz -68.64 dBm /Hz 11acVHT40 5270MHz Ref Offset 10.5 dB Ref 15.00 dBm Span 55.5 MHz #Sweep 1 s enter 5.27 GHz Res BW 1 MHz #VBW 3 MHz Power Spectral Density Channel Power 12.22 dBm / 37 MHz -63.46 dBm /Hz

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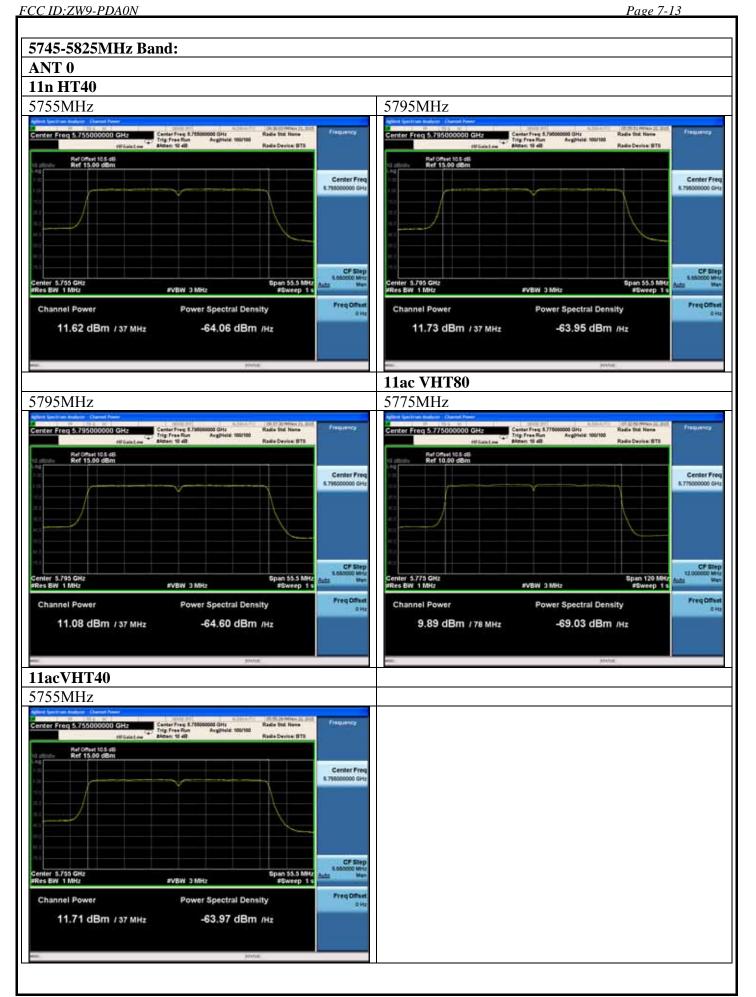
5260-5320MHz Band: ANT 1 11n HT40 5270MHz 5310MHz Center Freq \$.270000000 GHz Center Fred 8.310000000 GH Span 55.5 MHz #Sweep 1 s Center 5.31 GHz #Res BW 1 MHz #VBW 3 MHz #VBW 3 MHz Channel Power Power Spectral Density Channel Power Power Spectral Density 11.84 dBm / 37 MHz -63.84 dBm /Hz 11.92 dBm / 37 MHz -63.76 dBm /Hz **11ac VHT80** 5290MHz 5310MHz Center Free Span 55.5 MHz #Sweep 1 s Center 5.29 GHz Res BW 1 MHz #VBW 3 MHz #VBW 3 MHz Channel Power Power Spectral Density Channel Power Power Spectral Density 12.05 dBm / 37 MHz -63.63 dBm /Hz 10.14 dBm / 78 MHz -68.78 dBm /Hz 11acVHT40 5270MHz Ref Offset 10.5 dB Ref 15.00 dBm Span 55.5 MHz #Sweep 1 s enter 5.27 GHz Res BW 1 MHz #VBW 3 MHz Power Spectral Density Channel Power 11.77 dBm / 37 MHz -63.91 dBm /Hz

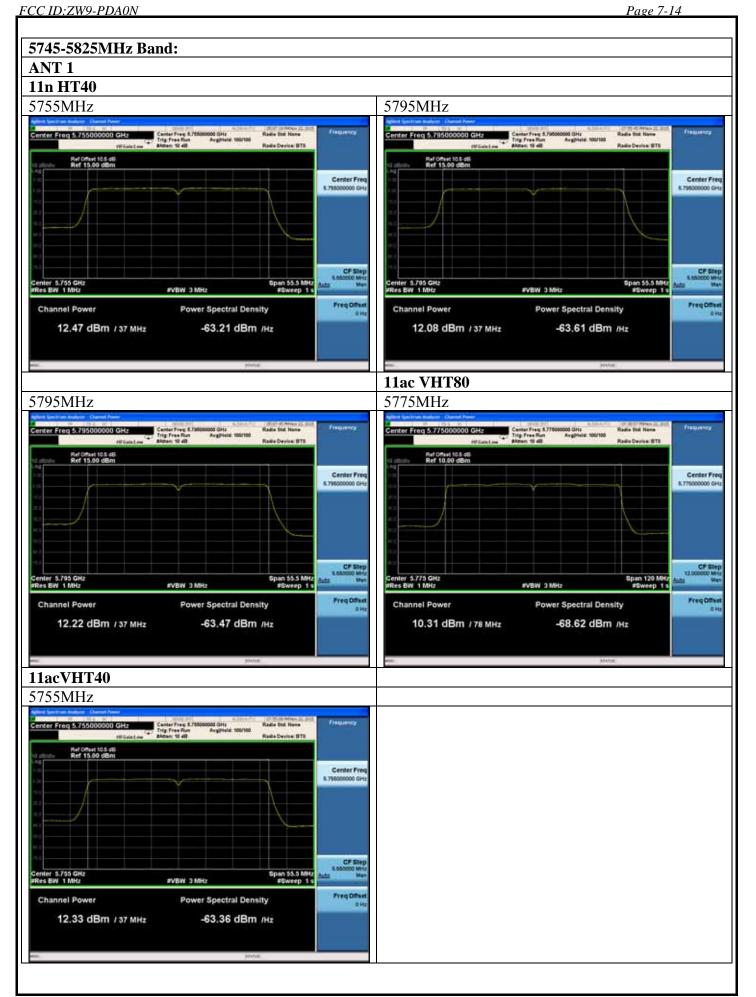
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5500-5700MHz Band: ANT 0 11acVHT40 11n HT40 5510MHz 5510MHz Center Free Center Fred Span 55.5 MHz #Sweep 1 s Center 5.51 GHz Res BW 1 MHz enter 5.51 GHz Res BW 1 MHz #VBW 3 MHz Channel Power Power Spectral Density Channel Power Power Spectral Density 12.22 dBm / 37 MHz -63.46 dBm /Hz 12.30 dBm / 37 MHz -63.38 dBm /Hz 5590MHz 5590MHz SHM C WEVE **Power Spectral Density** Channel Power Power Spectral Density 12.08 dBm / 37 MHz -63.60 dBm /Hz 12.11 dBm / 37 MHz -63.57 dBm /Hz 5670MHz 5670MHz Ref Offset 10.5 dB Ref 15.00 dBm Ref Offset 10.5 dB Ref 15.00 dBm Span 55.5 MHz #Sweep 1 s Span 55.5 MHz #Sweep 1 s enter 5.67 GHz Res BW 1 MHz SHM 5 MHZ #VBW 3 MHz Power Spectral Density Channel Power Channel Power **Power Spectral Density** 11.37 dBm / 37 MHz -64.31 dBm /Hz 11.45 dBm / 37 MHz -64.23 dBm /Hz

FCC ID:ZW9-PDA0N 11ac VHT80 5530MHz 5670MHz Ref Offset 10.5 dB Ref 10.00 dBm Center Free Center Fre Span 55.5 MHz #Sweep 1 s Span 120 MHz #Sweep 1 s Channel Power Power Spectral Density Channel Power Power Spectral Density 10.37 dBm / 78 MHz -68.55 dBm /Hz 11.85 dBm / 37 MHz -63.83 dBm /Hz ANT 1 11n HT40 11acVHT40 5510MHz 5510MHz Ref Offset 10.5 dB Ref 15.00 dBm Ref Offset 10.5 dB Ref 15.00 dBm Span 55.5 MHz #Sweep 1 s enter 5.51 GHz Res BW 1 MHz Span 55.5 MHz #Sweep 1 s Res BW 1 MHz EVBW 3 MHz #VBW 3 MHz Power Spectral Density Power Spectral Density Channel Power Channel Power 12.92 dBm / 37 MHz -62.76 dBm /Hz 12.57 dBm / 37 MHz -63.11 dBm /Hz 5590MHz 5590MHz Ref Offset 10.5 dB Ref 15.00 dBm Ref Offset 10.5 dB Ref 15.00 dBm Center Freq enter 5.59 GHz Res BW 1 MHz Span 55.5 MHz #Sweep 1 s Span 55.5 MHz #Sweep 1 s Power Spectral Density Channel Power Power Spectral Density 12.52 dBm / 37 MHz 12.37 dBm / 37 MHz -63.16 dBm /Hz -63.31 dBm /Hz

FCC ID:ZW9-PDA0N Page 7-12 **11ac VHT80** 5530MHz 5670MHz Ref Offset 10.5 dB Ref 10.00 dBm Center Freq 8.670000000 GHz Center Free 5.530000000 GH Span 55.5 MHz #Sweep 1 s Span 120 MHz #Sweep 1 s #VBW 3 MHz #VBW 3 MHz Power Spectral Density Channel Power Power Spectral Density Channel Power 11.72 dBm / 37 MHz -63.97 dBm /Hz 10.81 dBm / 78 MHz -68.11 dBm /Hz





8. SPECTRAL DENSITY TEST

8.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	N9030A	MY51380221	Oct.18,15	1Year
2.	Attenuator (20dB)	Agilent	8491B	MY39262165	Apr.28, 15	1 Year
3	RF Cable	Hubersuhner	SUCOFLEX102	28610/2	Apr.28, 15	1 Year

8.2.Limit

Band 5150-5250 MHz:

The e.i.r.p spectral density shall not exceed 11 dBm in any 1.0 MHz band.

Band 5250-5350 MHz:

The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

Band 5470-5725 MHz:

The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

Band 5725-5850 MHz:

The power spectral density shall not exceed 30 dBm in any 500 KHz band.

8.3. Test Procedure

For the Band 5.15-5.25GHz:

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW; Detector: RMS mode.

For the band 5.725-5.85 GHz:

The transmitter output was connected to a spectrum analyzer. Power density was measured by spectrum analyzer with 1MHz RBW and 3MHz VBW,RMS Detector.

So use the test method described in KDB789033 clause E

- 1) Set the RBW=100kHz and VBW =3MHz
- 2) Number of points in sweep \geq 2 Span / RBW.(This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)
- 3) Sweep time = auto
- 4) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- 5) Use the "peak search" function of spectrum analyzer find the max value, then add 10log (500kHz/RBW) to the measured result.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.



8.4. Test Results

5180-5240MHz Band:

EUT: Tablet PC		
M/N: AT10-C		
Test date: 2015-11-26	Pressure: 101.8±1.0kpa	Humidity:52.7±3.0%
Tested by: Alice_Yang	Test site: RF site	Temperature:22.8±0.6 °C

Test	Frequency	Power density (dBm/MHz)			Limit
Mode	(MHz)	ANT0	ANT1	Total	(dBm/MHz)
	5180	0.897	0.318	N/A	11
11a	5200	0.618	0.093	N/A	11
	5240	0.828	0.255	N/A	11
	5180	0.328	-0.184	3.09	11
11n HT20	5200	0.268	-0.158	3.071	11
	5240	0.346	-0.050	3.163	11
11n HT40	5190	-1.930	-2.753	0.688	11
1111 11140	5230	-1.916	-2.508	0.808	11
	5180	0.274	-0.094	3.104	11
11ac VHT20	5200	0.152	-0.272	2.955	11
	5240	0.385	-0.161	3.131	11
11ac VHT40	5190	-2.146	-2.689	0.601	11
11ac VH140	5230	-1.783	-2.524	0.873	11
11ac VHT80	5210	-6.627	-7.433	-4.001	11
Conclusion: PA	ASS			_	



5260-5320MHz Band:

EUT: Tablet PC		
M/N: AT10-C		
Test date: 2015-11-26	Pressure: 101.8±1.0 kpa	Humidity:52.7±3.0%
Tested by: Alice_Yang	Test site: RF site	Temperature:22.8±0.6 °C

Test	Frequency	Power density (dBm/MHz)			Limit
Mode	(MHz)	ANT1	ANT2	Total	(dBm/MHz)
	5260	0.218	-0.324	N/A	11
11a	5300	0.335	-0.270	N/A	11
	5320	0.519	-0.037	N/A	11
	5260	-0.147	-0.486	2.697	11
11n HT20	5300	0.089	-0.517	2.807	11
	5320	0.142	-0.245	2.963	11
11n HT40	5270	-2.290	-2.486	0.623	11
1111 11140	5310	-2.223	-2.807	0.505	11
	5260	-0.227	-0.332	2.731	11
11ac VHT20	5300	-0.099	-0.280	2.822	11
	5320	0.013	-0.131	2.952	11
11ac VHT40	5270	-2.489	-2.592	0.47	11
	5310	-2.307	-2.740	0.492	11
11ac VHT80	5290	-6.992	-7.211	-4.09	11
Conclusion: PA	ASS				



5500-5700MHz Band:

EUT: Tablet PC		
M/N: AT10-C		
Test date: 2015-11-26	Pressure: 101.6±1.0 kpa	Humidity:52.7±3.0%
Tested by: Alice_Yang	Test site: RF site	Temperature:22.8±0.6 ℃

Test	Frequency (MHz)	Power density (dBm/MHz)			Limit
Mode		ANT0	ANT1	Total	(dBm/MHz)
11a	5500	0.379	0.618	N/A	11
	5600	0.036	0.417	N/A	11
	5700	-0.221	-0.253	N/A	11
11n HT20	5500	-0.058	0.280	3.125	11
	5600	-0.095	0.195	3.063	11
	5700	-0.776	-0.474	2.388	11
11n HT40	5510	-2.558	-2.012	0.734	11
	5590	-2.640	-2.031	0.685	11
	5670	-3.123	-2.825	0.039	11
11ac VHT20	5500	-0.155	0.336	3.108	11
	5600	-0.295	0.144	2.94	11
	5700	-0.820	-0.465	2.371	11
11ac VHT40	5510	-2.629	-2.051	0.68	11
	5590	-2.589	-2.133	0.655	11
	5670	-2.971	-2.999	0.025	11
11ac VHT80	5530	-6.903	-6.575	-3.726	11
Conclusion: PA	ASS				



5745-5825MHz Band:

EUT: Tablet PC		
M/N: AT10-C		
Test date: 2015-11-26	Pressure: 101.5±1.0kpa	Humidity:52.7±3.0%
Tested by: Alice_Yang	Test site: RF site	Temperature:22.8±0.6 ℃

Test Mode	Frequency (MHz)	Power density (dBm/500KHz)			Limit
		ANT1	ANT2	Total	(dBm/500KHz)
11a	5745	-1.766	-1.185	N/A	29.86
	5785	-1.772	-1.185	N/A	29.86
	5825	-2.214	-1.368	N/A	29.86
11n HT20	5745	-2.296	-1.504	1.13	29.86
	5785	-2.508	-2.007	0.76	29.86
	5825	-2.576	-1.893	0.79	29.86
11n HT40	5755	-4.259	-3.917	-1.07	29.86
	5790	-5.104	-4.228	-1.63	29.86
11ac VHT20	5745	-2.228	-1.304	1.27	29.86
	5785	-2.449	-1.886	0.85	29.86
	5825	-2.40	-2.247	0.69	29.86
11ac VHT40	5755	-4.546	-3.965	-1.24	29.86
	5790	-4.635	-4.396	-1.50	29.86
11ac VHT80	5775	-9.285	-9.047	-6.15	29.86
Conclusion: PA	SS				

Note: 11ac/n Mode

Directional Gain= $10 \log[(10^{2.84/20} + 10^{3.41/20})^2/2]dBi$

= 6.14dBi> 6dBi

Note 2:

Correction factor =10log(500kHz/100kHz)=6.9897
 Result=Reading value + Correction factor

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5180-5240MHz Band: ANT 0 11a 11n HT20 5180MHz 5180MHz rker 1 5.177810000000 GHz Avg Type RMS Avgitteld: 100/10 Ref Offset 10.5 dB Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm Next Pk Let 5200MHz 5200MHz Avg Type RMS Avgitteld: 100/100 Avg Type RMS Avgitteld: 100/10 203 39 GI 0.618 dB Ref 20.00 dBm Ref 20.00 dBm Mkr -- RefLy enter 5.20000 GHz Res BW 1.0 MHz enter 5.20000 GHz Res BW 1.0 MHz 5240MHz 5240MHz NextPost NextPos Ref Offset 10.5 dB Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm FVBW 3.0 MHz* EVBW 3.0 MHZ

FCC ID:ZW9-PDA0N 11n HT40 5190MHz 5200MHz Avg Type RMS Avgittele 100/100 Avg Type FMS Avgitteld: 100/100 Ref 20.00 dBm Ref 20.00 dBm Mkr-RefLy Mkr-RefLy enter 5.20000 GHz Res BW 1.0 MHz 5240MHz 5230MHz arker 1 5.22370000 Ref 20.00 dBm Ref 20.00 dBm Next Pa Rigi Next Ps Rigi Marker Det Center 5.24000 GHz #Res BW 1.0 MHz Center 5,23000 GHz #Res BW 1.0 MHz FVBW 3.0 MHZ FVBW 3.0 MHZ 11ac VHT20 11ac VHT40 5180MHz 5190MHz rker 1 5.177150000000 GHz erker 1 5.195040000000 GHz Avg Type RMS Avgitteld 100/10 Avg Type FMS Avgitteld: 100/10 Ref Offset 10.5 dB Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm Mkr-RefL FVBW 3.0 MHZ EVBW 3.0 MHZ

FCC ID: ZW9-PDAON

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11ac VHT80

5230MHz

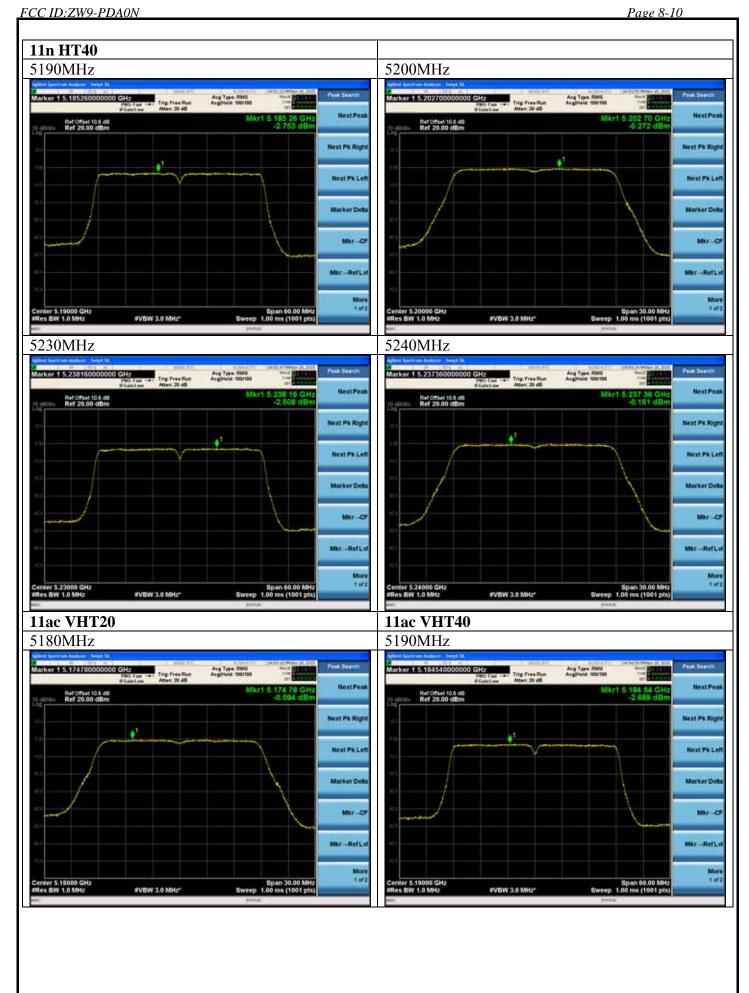
5210MHz

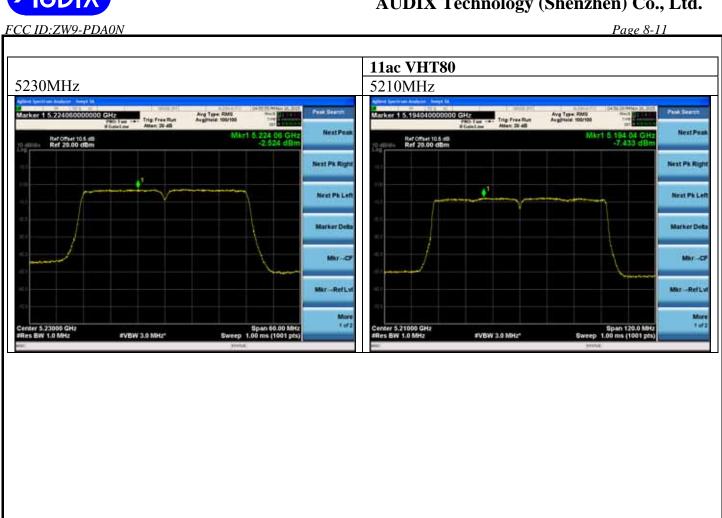
5210MHz

Figure Applies Superation of the Control of

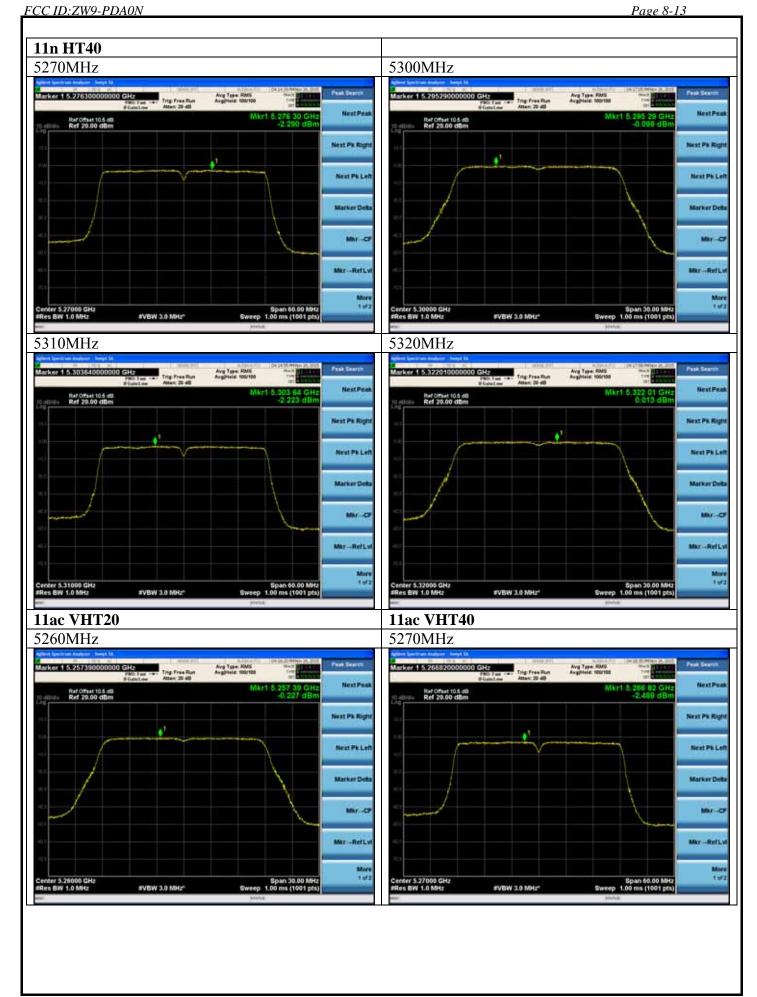
AUDIX Technology (Shenzhen) Co., Ltd.

5180-5240MHz Band: ANT 1 11a 11n HT20 5180MHz 5180MHz Avg Type RMS Avgitteld: 100/10 Ref Offset 10.5 dB Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm Next Pk Let 5200MHz 5200MHz Avg Type RMS Avgitteld: 100/100 Avg Type: FMS Avgitted: 100/10 Ref 20.00 dBm Ref 20.00 dBm Mkr -- RefLy enter 5.20000 GHz Res BW 1.0 MHz enter 5.20000 GHz Res BW 1.0 MHz 5240MHz 5240MHz arker 1 5.245040000000 GHz NextPost NextPos Ref Offset 10.5 dB Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm Mkr-RefLv FVBW 3.0 MHz* EVBW 3.0 MHZ





FCC ID:ZW9-PDA0N 5260-5320MHz Band: ANT 0 11a 11n HT20 5260MHz 5260MHz Avg Type RMS Avgitteld: 100/10 Ref Offset 10.5 dB Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm Next Pk Let 5300MHz 5300MHz Avg Type RMS Avgitted: 100/100 Avg Type RMS Avgitteld: 100/10 Ref Offset 10.5 dB Ref 20.00 dBm Ref 20.00 dBm Mkr -- RefLy enter 5,30000 GHz Res BW 1.0 MHz enter 5,30000 GHz Res BW 1.0 MHz 5320MHz 5320MHz NextPost NextPos Ref Offset 10.5 dB Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm Center 5.32000 GHz IRes BW 1.0 MHz FVBW 3.0 MHZ EVBW 3.0 MHZ



S310MHz

S310MHz

S290MHz

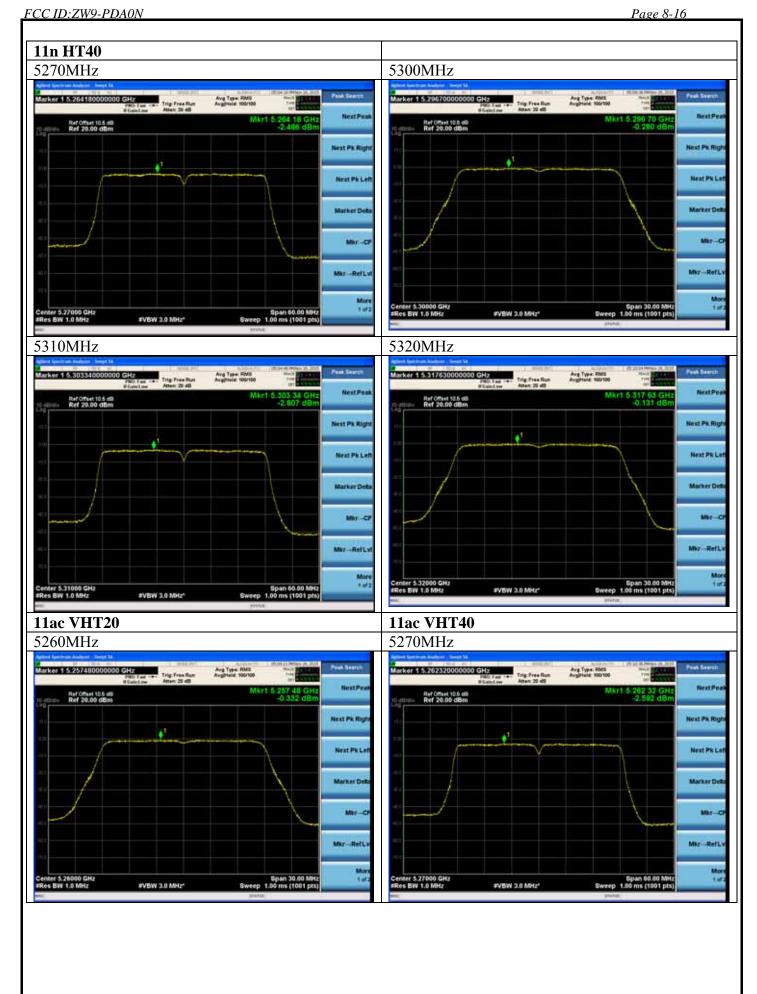
S290MHz

S290MHz

S310MHz

S31

FCC ID:ZW9-PDA0N 5260-5320MHz Band: ANT 1 11a 11n HT20 5260MHz 5260MHz Avg Type RMS Avgitteld: 100/10 Ref Offset 10.5 dB Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm Next Pk Let 5300MHz 5300MHz Avg Type RMS Avgitted: 100/100 Avg Type RMS Avgitteld: 100/10 . 296 76 G -0.517 dE Ref 20.00 dBm Ref 20.00 dBm Mkr -- RefLy enter 5,30000 GHz Res BW 1.0 MHz enter 5,30000 GHz Res BW 1.0 MHz 5320MHz 5320MHz NextPost NextPos Ref Offset 10.5 dB Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm Center 5.32000 GHz IRes BW 1.0 MHz FVBW 3.0 MHz* EVBW 3.0 MHZ



Tac VHT80

5310MHz

5310MHz

5290MHz

Marker 1 \$ 31600000000 GHz

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Applies to trial

Free Resch

Ref 2000 GBH

Ref 2000 GBH

Marker 2 \$ 3160000000 GHz

Ref 2000 GBH

Ref 2000 GBH

Ref 2000 GBH

Marker 1 \$ 31600 GBH

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Ref 2000 GBH

Marker 1 \$ 31600 GBH

Ref 2000 GBH

Marker 1 \$ 31600 GBH

Ref 2000 GBH

R

FCC ID:ZW9-PDA0N 5500-5700MHz Band: ANT 0 11a 11n HT20 5500MHz 5500MHz Avg Type RMS Avgitteld: 100/10 Ref Offset 10.5 dB Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm Next Pk Let Center 5.50000 GHz #Res BW 1.0 MHz Center 5.50000 GHz #Res BW 1.0 MHz 5600MHz 5600MHz Avg Type RMS Avgitted: 100/100 Avg Type RMS Avgitteld: 100/10 Ref 20.00 dBm Ref 20.00 dBm Mkr -- RefLy enter 5.60000 GHz Res BW 1.0 MHz enter 5.60000 GHz Res BW 1.0 MHz 5700MHz 5700MHz NextPost NextPos Ref Offset 10.5 dB Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm Center 5.70000 GHz IRes BW 1.0 MHz FVBW 3.0 MHz* EVBW 3.0 MHZ

FCC ID:ZW9-PDA0N 11n HT40 11ac VHT20 5510MHz 5500MHz Avg Type RMS Avgittele 1991100 Avg Type RMS Avgitteld 100/100 Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm Mkr-RefLy Mkr-RefLy enter 5.50000 GHz Res BW 1.0 MHz #VBW 3.0 MHz* FVBW 3.0 MHZ 5600MHz 5590MHz srker 1 5.593520000 Ref 20.00 dBm Ref 20.00 dBm Next Pa Righ Next Ps Rigi Marker Det Center 5.59000 GHz #Res BW 1.0 MHz Center 5.60000 GHz #Res BW 1.0 MHz FVBW 3.0 MHZ EVBW 3.0 MHz 5670MHz 5700MHz Trig Free Run Atten 20 dB Avg Type RMS Avgitteid: 100/10 Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm Next Pa Righ Next Pa Ric More 1 of 2 More

FCC ID:ZW9-PDA0N **11ac VHT40** 5510MHz 5670MHz Aspher 1 5.5143200000000 GHz Trip Free Run PRO Law --- Trip Free Run Annu 20 48 Avg Type RMS Avgitteld: 100/100 Avg Type: FIMS AvgPrint, 100/100 Ref Offset 10.5 dB Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm IVBW 3.0 MHZ 11ac VHT80 5590MHz 5530MHz Avg Type FMS Avgitteld: 100/10 rker 1 5.516440000000 GHz Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm Mkr-RefLvi More 1 of 2 enter 5.59000 GHz Res BW 1.0 MHz #VBW 3.0 MHZ*

AUDIX Technology (Shenzhen) Co., Ltd.

5500-5700MHz Band: ANT 1 11a 11n HT20 5500MHz 5500MHz Marker 1 5.503480000000 GHz Marker 1 5.496700000000 GHz Aug Type: RMS Aughteid: 100/100 Avg Type: RMS AvgPteld: 100/10 Ref 20.00 dBm Ref 20.00 dBm Mkr-RefL Center 5.50000 GHz FRes BW 1.0 MHz Center 5.50000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* #VBW 3.0 MHz* 5600MHz 5600MHz arker 1 5.599040000000 GHz Aug Type: RMS Avgiltale: 100/100 Aug Type: RMS Aughteid: 100/10 Ref 20.00 dBm Ref 20.00 dBm Center 5.60000 GHz #Res BW 1.0 MHz Center 5.60000 GHz ≢Res BW 1.0 MHz #VBW 3.0 MHz* #VBW 3.0 MHz 5700MHz 5700MHz Avg Type: RMS Available: 100/100 Aug Type: RMS Available: 100/100 Trig:Free Run Amer: 20 dB 696 25 G -0.474 dE Ref Offset 10.5 dB Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm Center 5.70000 GHz #Res BW 1.0 MHz Span 30.00 MH Sweep 1.00 ms (1001 pts Span 30.00 MH Sweep 1.00 ms (1001 pts

FCC ID:ZW9-PDA0N 11n HT40 11ac VHT20 5510MHz 5500MHz Aug Type: RMS Augitteid: 100/100 Aug Type: RMS Available: 100/100 Ref Offset 10.5 dB Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm 5590MHz 5600MHz Marker 1 5.585080000000 GHz Marker 1 5.597270000000 GHz Aug Type: RMS Aughteid: 100/100 Aug Type: RMS Aughteid: 100/100 597 27 (0.144 d Ref 20.00 dBm Ref 20.00 dBm Mkr-RefL Center 5.60000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz* #VBW 3.0 MHz* 5700MHz 5670MHz Aug Type: RMS Aughteid: 100/10 Aug Type: RMS Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm

FCC ID:ZW9-PDA0N **11ac VHT40** 5510MHz 5670MHz Aarker 1 5.5157600000000 GHz Aug Type: RMS Aughteid 100/100 Avg Type: FIMS Augiteld: 100/100 Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm Center 5.67000 GHz #Res BW 1.0 MHz **11ac VHT80** 5590MHz 5530MHz Marker 1 5.517400000000 GHz Trig Free Ren Free 20 dtl Avg Type: HMS Augitteld: 100/100 Ref 20.00 dam Ref Offset 10.5 dB Ref 20.00 dBm Mkr-RefL #VBW 3.0 MHz* EVEW 3.0 MHZ

AUDIX Technology (Shenzhen) Co., Ltd.

5745-5825MHz Band: ANT 0 11a 11n HT20 5745MHz 5745MHz Marker 1 5,748750000000 GHz Marker 1 5, 748750000000 GHz Trig Free Run Reset 26 d0 Aug Type: RMS Aughteid: 100/10 Avg Type: RMS AvgPteld: 100/10 Ref 20.00 dBm Ref 20.00 dBm Center 5.74500 GHz #Res BW 100 kHz #VBW 300 kHz* #VBW 300 kHz* 5785MHz 5785MHz arker 1 5.786290000000 GHz rker 1 5.783140000000 GHz Aug Type: RMS Avgittale: 100/100 Aug Type: RMS Aughteid: 100/10 Ref 20.00 dBm Ref 20.00 dBm Center 5.78500 GHz #Res BW 100 kHz Center 5.78500 GHz #Res BW 100 kHz Span 30.00 MP Sweep 3.73 ms (1001 pt Span 30.00 M9 Sweep 3.73 ms (1001 pt 5825MHz 5825MHz erker 1 5.830040000000 GHz Marker 1 5.831270000000 GHz Trig Free Run FRO 1 set --- Rent 25 dD Avg Type: RMS Available: 100/100 Aug Type: RMS Available: 100/100 Ref Offset 10.5 dB Ref 20.00 dBm Ref 20.00 dBm Center 5.82500 GHz #Res BW 100 kHz Span 30.00 MH: Sweep 3.73 ms (1001 pts Span 30.00 MH Sweep 3.73 ms (1001 pts

FCC ID:ZW9-PDA0N 11n HT40 5785MHz5755MHz Aug Type: RMS Augitteid: 100/100 Avg Type: RMS Avgittele: 100/100 Ref Offset 10.5 dB Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm • 5795MHz 5825MHz Marker 1 5.787500000000 GHz Marker 1 5.818760000000 GHz Aug Type: RMS Aughteid: 100/100 Avg Type: RMS AvgPteld: 100/10 Ref 20.00 dBm Ref 20.00 dBm #VBW 300 kHz* 11ac VHT20 **11ac VHT40** 5745MHz 5755MHz Ref Offset 10.6 dB Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm

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AUDIX Technology (Shenzhen) Co., Ltd.

5745-5825MHz Band: ANT 1 11a 11n HT20 5745MHz 5745MHz Marker 1 5,741880000000 GHz Marker 1 5.743740000000 GHz Aug Type: RMS Aughteid: 100/10 Avg Type: RMS AvgPteld: 100/10 Ref 20.00 dBm Ref 20.00 dBm Center 5.74500 GHz #Res BW 100 kHz #VBW 300 kHz* #VBW 300 kHz* 5785MHz 5785MHz rker 1 5.788150000000 GHz arker 1 5.781280000000 GHz Aug Type: RMS Avgittale: 100/100 Aug Type: RMS Aughteid: 100/10 Ref 20.00 dBm Ref 20.00 dBm Center 5.78500 GHz #Res BW 100 kHz Center 5.78500 GHz #Res BW 100 kHz Span 30.00 MP Sweep 3.73 ms (1001 pt Span 30.00 M9 Sweep 3.73 ms (1001 pt #VBW 300 kHz* 5825MHz 5825MHz erker 1 5.823140000000 GHz Avg Type: RMS Available: 100/100 Trig:Free Run Aug Type: RMS Available: 100/100 Ref Offset 10.5 dB Ref 20.00 dBm Ref 20.00 dBm Center 5.82500 GHz #Res BW 100 kHz Span 30.00 MH: Sweep 3.73 ms (1001 pts Span 30.00 MH Sweep 3.73 ms (1001 pts

FCC ID:ZW9-PDA0N 11n HT40 5785MHz5755MHz Aug Type: RMS Augitteid: 100/100 Avg Type: RMS Avgittele: 100/100 Ref Offset 10.5 dB Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm ۰ Center 5.75500 GHz #Res BW 100 kHz 5795MHz 5825MHz Marker 1 5,798780000000 GHz Marker 1 5.826260000000 GHz Aug Type: RMS Aughteid: 100/100 5.798 78 GI -11.218 dE Ref 20.00 dBm Ref 20.00 dBm #VBW 300 kHz* 11ac VHT20 **11ac VHT40** 5745MHz 5755MHz Ref Offset 10.6 dB Ref 20.00 dBm Ref Offset 10.5 dB Ref 20.00 dBm

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9. ANTENNA REQUIREMENT

9.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

9.2. Antenna Connected Construction

The antennas used for this product are PIFA antenna that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 3.41dBi.



10. DEVIATION TO TEST SPECIFICATIONS [NONE]