



BANDWIDTH

Note: Antenna B Power> Antenna A Power, Both antenna A and B have been test, Only show the worst data of Antenna B.

Band IV (5.725-5.850GHz)26dB Bandwidth					
Frequency	802.11a 26dB				
Frequency (MHz)	Bandwid	th(MHz)	Pass/Fail		
(10112)	ANTENNA -A	ANTENNA -B			
5745	21.25	21.27	Pass		
5785	20.98	21.00	Pass		
5825	20.97	20.99	Pass		

Note: N/A, 26 db bandwidth measurement limit only embodied in the report.

Frequency	802.11n(HT20) 26dB Bandwidth(MHz)		Pass/Fail
(MHz)	ANTENNA -A	ANTENNA -B	
5745	21.96	21.97	Pass
5785	21.82	21.84	Pass
5825	21.85	21.86	Pass

Note: N/A, 26 db bandwidth measurement limit only embodied in the report.

802.11n(HT40) 26dB Bandwidth(MHz)		Pass/Fail
ANTENNA -A	ANTENNA -B	
41.75	41.76	Pass
42.09	42.10	Pass
	Bandwid ANTENNA -A 41.75	Bandwidth(MHz)ANTENNA -AANTENNA -B41.7541.76

Note: N/A, 26 db bandwidth measurement limit only embodied in the report.

Frequency (MHz)	802.11ac(HT20) 26dB Bandwidth(MHz)		Pass/Fail
	ANTENNA -A	ANTENNA -B	
5745	21.61	21.63	Pass
5785	21.95	21.97	Pass
5825	22.47	22.48	Pass

Note: N/A, 26 db bandwidth measurement limit only embodied in the report.

Frequency	802.11ac(HT40) 26dB Bandwidth(MHz)		Pass/Fail
(MHz)	ANTENNA -A	ANTENNA -B	
5755	41.99	42.01	Pass
5795	41.86	41.87	Pass
Nata: N/A OC alla la analysi		Dara Marana Istana ang kata	all and the fill a manufact

Note: N/A, 26 db bandwidth measurement limit only embodied in the report.

802.11ac(HT80) 26dB Bandwidth(MHz)		Pass/Fail
ANTENNA -A	ANTENNA -B	
85.00	85.01	Pass
	Bandwid ANTENNA -A	Bandwidth(MHz) ANTENNA - A ANTENNA - B

Note: N/A, 26 db bandwidth measurement limit only embodied in the report



Band IV (5.725-5.850GHz)99% Bandwidth

Frequency (MHz)	802.11a 99% Bandwidth(MHz)		Pass/Fail
(101112)	ANTENNA -A	ANTENNA -B	
5745	16.574	16.576	Pass
5785	16.570	16.572	Pass
5825	16.563	16.565	Pass

Note: N/A, 99% bandwidth measurement limit only embodied in the report.

Frequency (MHz)	802.11n(HT20) 99% Bandwidth(MHz)		Pass/Fail
	ANTENNA -A	ANTENNA -B	
5745	17.782	17.785	Pass
5785	17.784	17.786	Pass
5825	17.777	17.779	Pass

Note: N/A, 99% bandwidth measurement limit only embodied in the report.

Frequency (MHz)	802.11n(HT40) 99% Bandwidth(MHz)		Pass/Fail
	ANTENNA -A	ANTENNA -B	
5755	36.443	36.446	Pass
5795	36.470	36.472	Pass

Note: N/A, 99% bandwidth measurement limit only embodied in the report.

Frequency	802.11ac(HT20) 99% Bandwidth(MHz)		Pass/Fail
(MHz)	ANTENNA -A	ANTENNA -B	
5745	17.781	17.784	Pass
5785	17.776	17.779	Pass
5825	17.763	17.766	Pass

Note: N/A, 99% bandwidth measurement limit only embodied in the report.

Frequency (MHz)	802.11ac(HT40) 99% Bandwidth(MHz)		Pass/Fail		
	ANTENNA -A	ANTENNA -B			
5755	36.425	36.426	Pass		
5795	36.423	36.426	Pass		
	Note: NI/A 000/ has devided as a summer and list to she such a diad in the moment				

Note: N/A, 99% bandwidth measurement limit only embodied in the report.

Frequency	802.11ac(HT80) 99% Bandwidth(MHz)		Pass/Fail	
(MHz)	ANTENNA -A	ANTENNA -B		
5775	75.994	75.996	Pass	

Note: N/A, 26 db bandwidth measurement limit only embodied in the report

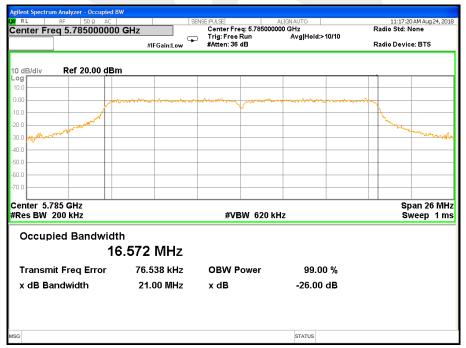


Antenna B

Band IV (5.725-5.850GHz) 802.11a, 26 dB &99% Bandwidth 26 dB &99% Bandwidth 802.11a Channel 149

er - Occupied BW Center Freq: 5.745000000 GHz Trig: Free Run Avg|Hold>10/10 #Atten: 36 dB 11:14:40 AM Aug 24, 2018 Radio Std: None Frequency enter Freq 5.745000000 GHz Ģ #IFGain:Low Radio Device: BTS Ref 20.00 dBm 10 dB/div Center Fred 5.745000000 GHz Span 26 MHz Sweep 1 ms Center 5.745 GHz #Res BW 200 kHz CF Step 2.600000 MHz #VBW 620 kHz Mar Auto **Occupied Bandwidth** 16.576 MHz Freq Offset 0 Hz **Transmit Freq Error** 73.465 kHz **OBW Power** 99.00 % x dB Bandwidth 21.27 MHz x dB -26.00 dB STATUS

26 dB &99% Bandwidth 802.11a Channel 157





26 dB &99% Bandwidth 802.11a Channel 165

	im Analyzer - Occupied B	N			
LXI RL	RF 50 Ω AC		SENSE:PULSE	ALIGNAUTO	11:19:13 AM Aug 24, 2018
Center Fr	eq 5.825000000		Center Freq: 5.82500 Trig: Free Run	0000 GHz Avg Hold:>10/10	Radio Std: None
		#IFGain:Low	#Atten: 36 dB	Avginola:>10/10	Radio Device: BTS
	J				
	Def 20.00 dDm				
10 dB/div Log	Ref 20.00 dBm				
10.0					
0.00					
-10.0			The second s		
-20.0	ALC AND				- alwann track
-30.0 Mm	M				and the second s
-40.0					
-50.0					
-60.0					
-70.0					
Center 5.	R25 GHz				Span 26 MHz
#Res BW			#VBW 620	kHz	Sweep 1 ms
Occup	ied Bandwidt	h			
	16	5.565 MHz			
	10				
Transn	nit Freq Error	75.146 kHz	OBW Power	99.00 %	
v dB B	andwidth	20.99 MHz	x dB	-26.00 dB	
		20.55 10112	X UB	-20.00 08	
MSG				STATUS	

Shenzhen STS Test Services Co., Ltd.

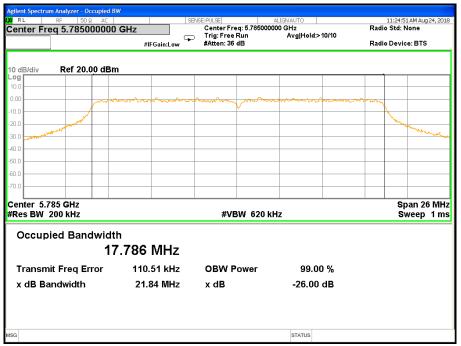
1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China Tel: 0755-36886288 Fax: 0755-36886277 Http://www.stsapp.com E-mail: sts@stsapp.com



Band IV (5.725-5.850GHz) 802.11n(HT20) 26 dB &99% Bandwidth 26 dB &99% Bandwidth 802.11n(HT20) Channel 149

	trum Analyzer - O									
(X) RL	^{RF} 50 Freq 5.7450		1-7		::PULSE reg: 5.74500		ALIGNAUTO		4 AM Aug 24, 2018 Std: None	Frequency
	164 3.7430			Trig: Free #Atten: 36	Run	Avg Hold	:>10/10			
	,	#IF	Gain:Low	#Atten: 3t	9 dB			Radio L	evice: BTS	
10 dB/div Log	Ref 20.	00 dBm								
10.0									_	Center Freq
0.00		anonon	murchererel	moren	monor	mon	mound	m	_	5.745000000 GHz
-10.0		-			v					
-20.0								~		
-30.0									Martin Mart	
-40.0										
-50.0										
-60.0										
-70.0										
	5.745 GHz / 200 kHz			#\/B	W 620 k	U -			oan 26 MHz weep 1 ms	CF Step
#Res DW	200 KHZ			#VE	020 N	.ПZ		3	weep ins	2.600000 MHz
Occu	pied Ban	dwidth								<u>Auto</u> Man
	•		85 MF	17						
				12						Freq Offset
Trans	mit Freq Eı	rror	110.78 k	Hz	OBW P	ower	99	.00 %		0 Hz
x dB E	Bandwidth		21.97 M	Hz	x dB		-26.0	00 dB		
MSG							STATUS			
			-				_	-		

26 dB &99% Bandwidth 802.11n(HT20) Channel 157





26 dB &99% Bandwidth 802.11n(HT20) Channel 165

	trum Analyzer - Occupied B				
LXI RL	RF 50Ω AC		ENSE:PULSE	ALIGNAUTO	11:26:55 AM Aug 24, 2018
Center F	Freq 5.82500000		Center Freq: 5.825000 Trig: Free Run	0000 GHz Avg Hold:>10/10	Radio Std: None
		#IFGain:Low	#Atten: 36 dB		Radio Device: BTS
10 dB/div	Ref 20.00 dBn	า			
Log 10.0					
0.00	man	mush marker	annon harren	and the state of the second	mon
-10.0					
-20.0	hand the second s				- marine
-30.0					March 1
-40.0					
-50.0					
-60.0					
-70.0					
Contor	5.825 GHz				Span 26 MHz
	V 200 kHz		#VBW 6201	(Hz	Sweep 1 ms
-		•			
Occu	ipied Bandwidt				
	17	′.779 MHz			
Trans	mit Freq Error	114.45 kHz	OBW Power	99.00 %	
xdBl	Bandwidth	21.86 MHz	x dB	-26.00 dB	

Shenzhen STS Test Services Co., Ltd.

1/F., Building B, Zhuoke Science Park, No.190,Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong,China Tel: 0755-36886288 Fax: 0755-36886277 Http://www.stsapp.com E-mail: sts@stsapp.com



Band IV (5.725-5.850GHz) 802.11n(HT40) 26 dB &99% Bandwidth 26 dB &99% Bandwidth 802.11n(HT40) Channel 151

gilent Spectrum Analyzer - Occupied B				
enter Freq 5.755000000		Center Freq: 5.7550000	ALIGNAUTO 100 GHz Avg Hold:>10/10	11:37:12 AM Aug 24, 201 Radio Std: None Radio Device: BTS
dB/div Ref 20.00 dBm		1		
og				
0.0	James and a start and a start a	mentaning with the second	Marsham and	, eutro
D.O Handradada				"Aller Jun Mar
0.0				
70.0				
enter 5.755 GHz Res BW 430 kHz		#VBW 1.3 MI	Hz	Span 56 MH Sweep 1 m
Occupied Bandwidt	^h 5.446 MHz			
Transmit Freq Error	167.98 kHz	OBW Power	99.00 %	
x dB Bandwidth	41.76 MHz	x dB	-26.00 dB	
sg			STATUS	
			STATUS	

26 dB &99% Bandwidth 802.11n(HT40) Channel 159

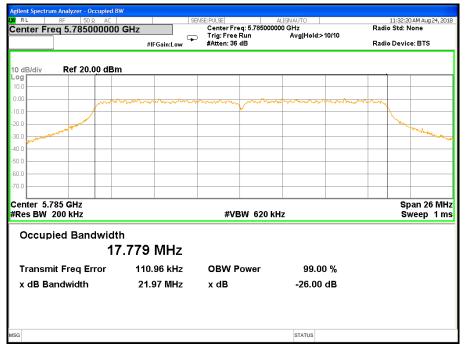




Band IV (5.725-5.850GHz) 802.11ac(HT20) 26 dB &99% Bandwidth 26 dB &99% Bandwidth 802.11ac(HT20) Channel 149

RL RF 50 Ω AC nter Freq 5.745000000) GHz Cente Trig: F	ense:PULse r Freq: 5.745000000 GHz Free Run Avg Hold h: 36 dB	l:>10/10	11:29:40 A Radio Std Radio Dev		Frequency
dB/div Ref 20.00 dB/	n					Center Fr
	haynan y Annya Annya Angalan an An	and many many many many many many many many	montent	m /		5.745000000 G
					Contraction of the second s	
enter 5.745 GHz Span 26 MHz tes BW 200 kHz #VBW 620 kHz Sweep 1 ms				CF St 2.600000 M Auto M		
Occupied Bandwid 1	th 7.784 MHz					Freq Off
Fransmit Freq Error dB Bandwidth	112.44 kHz 21.63 MHz	OBW Power x dB	99. -26.0	00 % 10 dB		0
			STATUS			

26 dB &99% Bandwidth 802.11ac(HT20) Channel 157





26 dB &99% Bandwidth 802.11ac(HT20) Channel 165

	trum Analyzer - Occupied B	N			
LXI RL	RF 50 Ω AC		ENSE:PULSE	ALIGNAUTO	11:34:28 AM Aug 24, 2018
Center F	req 5.825000000		Center Freq: 5.8250		Radio Std: None
		#IFGain:Low	Trig: Free Run #Atten: 36 dB	Avg Hold:>10/10	Radio Device: BTS
	B-6.00.00 JB-				
10 dB/div Log	Ref 20.00 dBm	1			
10.0					
0.00					
	man	mahan	mon man	mannan	many
-10.0					
-20.0					
-30.0	astron low of				
-40.0					
-50.0					
-60.0					
-70.0					
	5.825 GHz				Span 26 MHz
#Res BW	/ 200 kHz		#VBW 620) kHz	Sweep 1 ms
-					
Occu	pied Bandwidt	h			
	17	.766 MHz			
Trans	mit Freq Error	110.97 kHz	OBW Power	99.00 %	
	Bandwidth	22.48 MHz	x dB	-26.00 dB	
	anuwiuun	22.40 MILL	Xub	-20.00 05	

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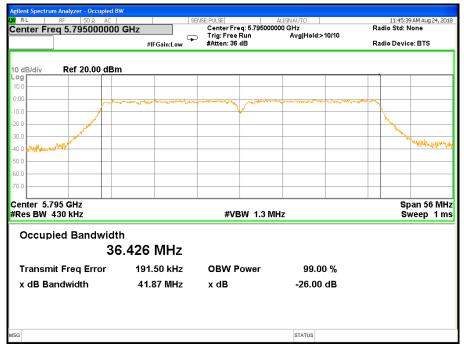
 Http://www.stsapp.com
 E-mail: sts@stsapp.com



Band IV (5.725-5.850GHz) 802.11ac(HT40) 26 dB &99% Bandwidth 26 dB &99% Bandwidth 802.11ac(HT40) Channel 151

ilent Spectrum Analyzer - Occupied B\ RL RF 50 Ω AC		ENSE:PULSE	ALIGNAUTO	11:43:0)6 AM Aug 24, 201
nter Freq 5.75500000		Center Freq: 5.7550000		Radio Std:	
	#IFGain:Low	#Atten: 36 dB	Trig: Free Run Avg Hold:>10/10 #Atten: 36 dB		
dB/div Ref 20.00 dBm	I				
a					
.0					
	when when and the	month when	and a share a set of the set of t	my	
				- And	
0 Malahand Mar				`	"Vinhyloghogent
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.0					
enter 5.755 GHz				S	pan 56 MH
les BW 430 kHz		#VBW 1.3 MI	Ηz		weep 1m
O	-				
Occupied Bandwidt					
36	.426 MHz				
Transmit Freq Error	185.22 kHz	OBW Power	99.00 %		
x dB Bandwidth	42.01 MHz	x dB	-26.00 dB		
	42.01 WHZ	хuв	-20.00 dB		
1					
1			STATUS		

26 dB &99% Bandwidth 802.11ac(HT40) Channel 159





Band IV (5.725-5.850GHz) 802.11ac(HT80) 26 dB &99% Bandwidth 26 dB &99% Bandwidth 802.11ac(HT80) Channel 155

AM Aug 24, 20
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