

W5ET

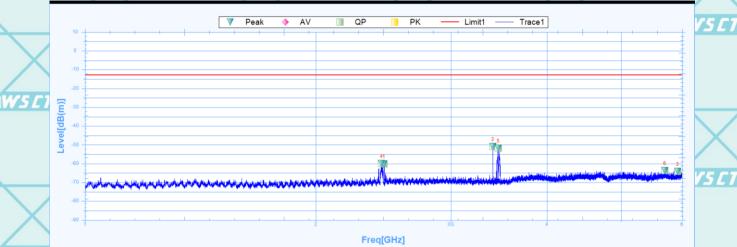




Report No.: WSCT-ANAB-R&E241100057A-RF

W5CT

Band 13: Horizontal:



W5CT

WS E

W5 C

- 10	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2435.0000	-59.88	27.38	-87.26	-13	-46.88	-0.2	Horizontal	PK	Pass
	1	2435.0000		27.38		54		-0.2	Horizontal	AV	Pass
	2	2453.1250	-60.14	27.44	-87.58	-13	-47.14	6.6	Horizontal	PK	Pass
	2	2453.1250		27.44		54		6.6	Horizontal	AV	Pass
	3	3403.1250	-50.9	28.44	-79.34	-13	-37.9	193	Horizontal	PK	Pass
Ž	3	3403.1250		28.44		54		193	Horizontal	AV	Pass
	4	3457.5000	-51.88	28.47	-80.35	-13	-38.88	12.9	Horizontal	PK	Pass
	4	3457.5000		28.47		54		12.9	Horizontal	AV	Pass
	5	5700.0000	-63.64	32.32	-95.96	-13	-50.64	283	Horizontal	PK	Pass
	5	5700.0000	·	32.32		54		283	Horizontal	AV	Pass
	6	5922.5000	-64.15	32.68	-96.83	-13	-51.15	197.8	Horizontal	PK	Pass
1	6	5922.5000		32.68		54		197.8	Horizontal	AV	Pass

W5 CT W5 C7 W5 C1 W5CT

W5 ET W5 CT

> W5 CT NS ET WS CT W5 E7

ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenu

FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

Page 90 of 171

W5CT

W5 C 7



W5 CT



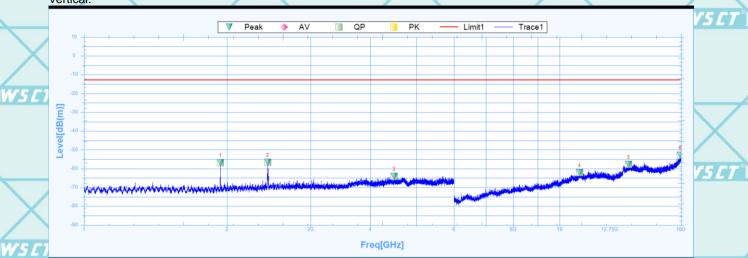


Report No.: WSCT-ANAB-R&E241100057A-RF

W5CT°

Vertical:

W5L



W5CT°

	Suspu	ıted Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	1936.8750	-56.96	25.62	-82.58	-13	-43.96	135.6	Vertical	PK	Pass
	1	1936.8750		25.62		54		135.6	Vertical	AV	Pass
	2	2437.5000	-56.66	27.39	-84.05	-13	-43.66	274.2	Vertical	PK	Pass
	2	2437.5000		27.39		54		274.2	Vertical	AV	Pass
	3	4488.7500	-64.17	30.58	-94.75	-13	-51.17	1.1	Vertical	PK	Pass
7	3	4488.7500		30.58		54		1.1	Vertical	AV	Pass
	4	11022.0000	-62.14	39.48	-101.62	-13	-49.14	186.2	Vertical	PK	Pass
	4	11022.0000		39.48		54		186.2	Vertical	AV	Pass
	5	13978.5000	-57.72	41.44	-99.16	-13	-44.72	-0.1	Vertical	PK	Pass
	5	13978.5000		41.44		54		-0.1	Vertical	AV	Pass
,	6	17943.0000	-52.82	46.12	-98.94	-13	-39.82	155	Vertical	PK	Pass
	6	17943.0000		46.12		54		155	Vertical	AV	Pass

WSET	WSCT	WSCT	WSCT	WSCT
X	X	\times	\times	X

/	W5CT	W5 CT	W5 CT	W5 CT	W5CT°

WSET WSET WSET

ADD: Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http: www.wsct-cert.com

per of the WSCT Group (WSCT SA)

MS/

WSET

WSET

W5CT

Page 91 of 171



W5CT"

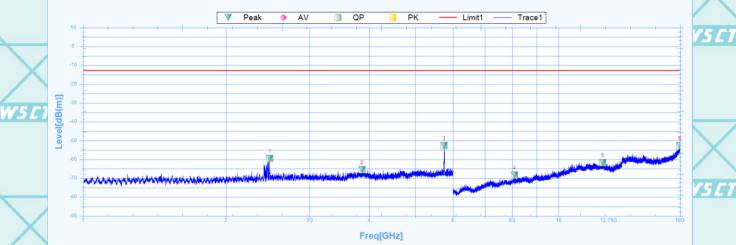




W 5 C Report No.: WSCT-ANAB-R&E241100057A-RF 5 C 7

W5CT°

Band 17: Horizontal:



W5 CT [®]

C I	Suspu	ted Data Lis	t								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2470.6250	-59.57	27.5	-87.07	-13	-46.57	122.4	Horizontal	PK	Pass
	1	2470.6250		27.5		54		122.4	Horizontal	AV	Pass
	2	3864.3750	-65.45	29.37	-94.82	-13	-52.45	172.6	Horizontal	PK	Pass
/	2	3864.3750		29.37		54		172.6	Horizontal	AV	Pass
/	3	5750.6250	-52.62	32.4	-85.02	-13	-39.62	143.9	Horizontal	PK	Pass
	3	5750.6250		32.4		54		143.9	Horizontal	AV	Pass
	4	8088.0000	-68.42	8.46	-76.88	-13	-55.42	14.1	Horizontal	PK	Pass
	4	8088.0000		8.46		54		14.1	Horizontal	AV	Pass
	5	12396.0000	-61.63	16.47	-78.1	-13	-48.63	231.7	Horizontal	PK	Pass
	5	12396.0000		16.47		54		231.7	Horizontal	AV	Pass
	6	17998.5000	-52.73	23.92	-76.65	-13	-39.73	347	Horizontal	PK	Pass
	6	17998.5000		23.92		54		347	Horizontal	AV	Pass

WSET	WSET		WSCT		WSET		WSET	,
	VS ET	WSCT		WSCI		WSCT		VSET.
WSET	WSET		WSET		WSCT		WSET	
	VS ET	WSCT		WSCI		WSET		
X	\times		X		X		Continuation & Te	Group (Shenz)

Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China.

TEL: 0086-755-26996192 26996053 26996144

Member of the WSCT Group (WSCT SA)

ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue

FAX: 0086-755-86376605

Page 92 of 171

WSET WSET

深圳世标检测认证股份有限公司



W5 CT

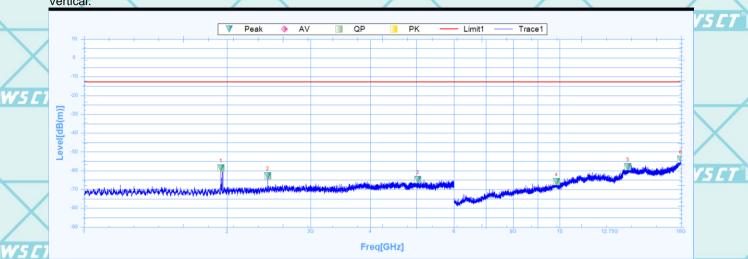




Report No.: WSCT-ANAB-R&E241100057A-RF

W5CT





W5CT

ted Data Lis	t								
Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1941.2500	-58.6	25.64	-84.24	-13	-45.6	161.1	Vertical	PK	Pass
1941.2500		25.64		54		161.1	Vertical	AV	Pass
2435.6250	-62.85	27.38	-90.23	-13	-49.85	164.7	Vertical	PK	Pass
2435.6250		27.38		54		164.7	Vertical	AV	Pass
5035.0000	-64.76	31.63	-96.39	-13	-51.76	7.1	Vertical	PK	Pass
5035.0000		31.63		54		7.1	Vertical	AV	Pass
9858.0000	-65.99	12.04	-78.03	-13	-52.99	133	Vertical	PK	Pass
9858.0000		12.04		54		133	Vertical	AV	Pass
13924.5000	-57.96	18.9	-76.86	-13	-44.96	31.4	Vertical	PK	Pass
13924.5000		18.9		54		31.4	Vertical	AV	Pass
17977.5000	-54.05	23.77	-77.82	-13	-41.05	357	Vertical	PK	Pass
17977.5000		23.77		54		357	Vertical	AV	Pass
	Freq. [MHz] 1941.2500 1941.2500 2435.6250 2435.6250 5035.0000 9858.0000 9858.0000 13924.5000 17977.5000	[MHz] [dB(m)] 1941.2500 -58.6 1941.2500 2435.6250 -62.85 2435.6250 5035.0000 -64.76 5035.0000 9858.0000 -65.99 9858.0000 13924.5000 -57.96 13924.5000 17977.5000 -54.05	Freq. [MHz] Reading [dB(m)] Factor [dB] 1941.2500 -58.6 25.64 1941.2500 25.64 25.64 2435.6250 -62.85 27.38 2435.6250 27.38 31.63 5035.0000 -64.76 31.63 9858.0000 -65.99 12.04 9858.0000 12.04 13924.5000 -57.96 18.9 17977.5000 -54.05 23.77	Freq. [MHz] Reading [dB(m)] Factor [dB] Level [dB(m)] 1941.2500 -58.6 25.64 -84.24 1941.2500 25.64 -90.23 2435.6250 -62.85 27.38 -90.23 2435.6250 27.38 -96.39 5035.0000 -64.76 31.63 -96.39 5035.0000 31.63 -78.03 9858.0000 -65.99 12.04 -78.03 9858.0000 12.04 -76.86 13924.5000 -57.96 18.9 -76.86 13924.5000 -54.05 23.77 -77.82	Freq. [MHz] Reading [dB(m)] Factor [dB] Level [dB(m)] Limit [dB] 1941.2500 -58.6 25.64 -84.24 -13 1941.2500 25.64 54 2435.6250 -62.85 27.38 -90.23 -13 2435.6250 27.38 54 5035.0000 -64.76 31.63 -96.39 -13 5035.0000 31.63 54 9858.0000 -65.99 12.04 -78.03 -13 9858.0000 12.04 54 13924.5000 -57.96 18.9 -76.86 -13 13924.5000 -54.05 23.77 -77.82 -13	Freq. [MHz] Reading [dB(m)] Factor [dB] Level [dB(m)] Limit [dB] Margin [dB] 1941.2500 -58.6 25.64 -84.24 -13 -45.6 1941.2500 25.64 54 -49.85 2435.6250 -62.85 27.38 -90.23 -13 -49.85 2435.6250 27.38 54 -51.76 -51.76 5035.0000 -64.76 31.63 -96.39 -13 -51.76 5035.0000 31.63 54 -78.03 -13 -52.99 9858.0000 12.04 -78.03 -13 -52.99 9858.0000 12.04 54 -44.96 13924.5000 -57.96 18.9 -76.86 -13 -44.96 13924.5000 -54.05 23.77 -77.82 -13 -41.05	Freq. [MHz] Reading [dB](m)] Factor [dB] Level [dB(m)] Limit [dB] Margin [dB] Deg [°] 1941.2500 -58.6 25.64 -84.24 -13 -45.6 161.1 1941.2500 25.64 54 161.1 2435.6250 -62.85 27.38 -90.23 -13 -49.85 164.7 2435.6250 27.38 54 164.7 164.7 5035.0000 -64.76 31.63 -96.39 -13 -51.76 7.1 5035.0000 31.63 54 7.1 7.1 9858.0000 -65.99 12.04 -78.03 -13 -52.99 133 9858.0000 12.04 54 133 13924.5000 -57.96 18.9 -76.86 -13 -44.96 31.4 13924.5000 -54.05 23.77 -77.82 -13 -41.05 357	Freq. [MHz] Reading [dB(m)] Factor [dB] Level [dB(m)] Limit [dB] Margin [dB] Deg [°] Polarity 1941.2500 -58.6 25.64 -84.24 -13 -45.6 161.1 Vertical 1941.2500 25.64 54 161.1 Vertical 2435.6250 -62.85 27.38 -90.23 -13 -49.85 164.7 Vertical 2435.6250 27.38 54 164.7 Vertical 5035.0000 -64.76 31.63 -96.39 -13 -51.76 7.1 Vertical 9858.0000 31.63 54 7.1 Vertical 9858.0000 -65.99 12.04 -78.03 -13 -52.99 133 Vertical 13924.5000 -57.96 18.9 -76.86 -13 -44.96 31.4 Vertical 17977.5000 -54.05 23.77 -77.82 -13 -41.05 357 Vertical	Freq. [MHz] Reading [dB(m)] Factor [dB] Level [dB(m)] Limit [dB] Margin [dB] Deg [°] Polarity Trace 1941.2500 -58.6 25.64 -84.24 -13 -45.6 161.1 Vertical PK 1941.2500 25.64 54 161.1 Vertical AV 2435.6250 -62.85 27.38 -90.23 -13 -49.85 164.7 Vertical PK 2435.6250 27.38 54 164.7 Vertical AV 5035.0000 -64.76 31.63 -96.39 -13 -51.76 7.1 Vertical PK 9858.0000 31.63 54 7.1 Vertical PK 9858.0000 -65.99 12.04 -78.03 -13 -52.99 133 Vertical PK 13924.5000 -57.96 18.9 -76.86 -13 -44.96 31.4 Vertical PK 13924.5000 -54.05 23.77 -77.82 -13 -41.05

VS CT	WSET	WSCT	WSET	WSET
W5 ET	WSET	W5 CT	W5 CT	W5 CT

W5CT	W5CT	WSET	W5 CT	W5 ET

W5LT°	WSET*	W5ET°	WSET

ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenu FAX: 0086-755-86376605 TEL: 0086-755-26996192 26996053 26996144

深圳世标检测认证股份有限公司

W5 CT

Page 93 of 171

Member of the WSCT Group (WSCT SA)



W5CT





rs c i

Report No.: WSCT-ANAB-R&E241100057A-RF

W5CT

Band 38: Horizontal:



W5CT"

WS C

W5E

Ī	Suspu	ted Data Lis	it								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
-	1	2436.8750	-56.26	27.39	-83.65	-13	-43.26	342.4	Horizontal	PK	Pass
1	1	2436.8750		27.39		54		342.4	Horizontal	AV	Pass
	2	4399.3750	-53.47	30.42	-83.89	-13	-40.47	129.6	Horizontal	PK	Pass
	2	4399.3750		30.42		54		129.6	Horizontal	AV	Pass
7	3	5927.5000	-47.91	32.68	-80.59	-13	-34.91	350.2	Horizontal	PK	Pass
	3	5927.5000		32.68		54		350.2	Horizontal	AV	Pass
	4	11088.0000	-61.91	15.89	-77.8	-13	-48.91	359.4	Horizontal	PK	Pass
	4	11088.0000		15.89		54		359.4	Horizontal	AV	Pass
	5	13987.5000	-57.87	19.09	-76.96	-13	-44.87	291.4	Horizontal	PK	Pass
	5	13987.5000		19.09		54		291.4	Horizontal	AV	Pass
	6	17913.0000	-53.53	23.34	-76.87	-13	-40.53	0	Horizontal	PK	Pass
	6	17913.0000		23.34		54		0	Horizontal	AV	Pass

WS CT W5 C7 WS CT W5 CT W5 C1

WSCT W5 CT W5 CT

> W5 CT W5 CT WS CT W5 E7

Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenu

FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

Page 94 of 171

W5 CT W5 CT



W5CT



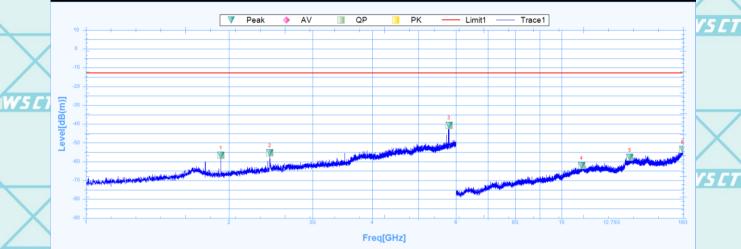


WS / Report No.: WSCT-ANAB-R&E241100057A-RF

W5CT"

W5 CT

Vertical:



WSE.

W5 L

5 L	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	1921.8750	-56.71	25.55	-82.26	-13	-43.71	77	Vertical	PK	Pass
	1	1921.8750		25.55		54		77	Vertical	AV	Pass
/	2	2436.2500	-55.27	27.38	-82.65	-13	-42.27	352.9	Vertical	PK	Pass
	2	2436.2500		27.38		54		352.9	Vertical	AV	Pass
1	3	5799.3750	-40.63	32.48	-73.11	-13	-27.63	0.5	Vertical	PK	Pass
	3	5799.3750		32.48		54		0.5	Vertical	AV	Pass
	4	11017.5000	-62.06	15.67	-77.73	-13	-49.06	185	Vertical	PK	Pass
	4	11017.5000		15.67		54		185	Vertical	AV	Pass
	5	13918.5000	-57.72	18.88	-76.6	-13	-44.72	0	Vertical	PK	Pass
	5	13918.5000		18.88		54		0	Vertical	AV	Pass
	6	17980.5000	-53.52	23.79	-77.31	-13	-40.52	61.8	Vertical	PK	Pass
/	6	17980.5000		23.79		54		61.8	Vertical	AV	Pass

WS CT

WSCT WSCT WSCT WSCT

W5 CT

W5 CT

W5 CT

W5 CT

W5CT

rs c i

WSCT

W5ET°

WSET

WSET

W5 CT

W5CT°

W5 CT

W5CT

WSET

W5 ET

W5CT

Signal WS ET

WSIT

AWS CT

WSCT

WSCT"

ADD: Building A-B, Baoil'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China.
TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com World Standard Zation Certification& Testing Group (S

Member of the WSCT Group (WSCT SA)

Page 95 of 171

WSET

WSCT



W5CT





Report No.: WSCT-ANAB-R&E241100057A-RF

W5CT

Band 41: Horizontal:



W5CT

W5 E

W5 C

W5 CI

4	Suspu	ıted Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2438.7500	-59.71	27.39	-87.1	-13	-46.71	318.5	Horizontal	PK	Pass
	1	2438.7500		27.39		54		318.5	Horizontal	AV	Pass
	2	3405.0000	-54.03	28.44	-82.47	-13	-41.03	38.7	Horizontal	PK	Pass
	2	3405.0000		28.44		54		38.7	Horizontal	AV	Pass
	3	5946.8750	-47.73	32.71	-80.44	-13	-34.73	331.6	Horizontal	PK	Pass
	3	5946.8750		32.71		54		331.6	Horizontal	AV	Pass
	4	11044.5000	-61.33	15.76	-77.09	-13	-48.33	-0.1	Horizontal	PK	Pass
	4	11044.5000		15.76		54		-0.1	Horizontal	AV	Pass
	5	13686.0000	-58.39	18.22	-76.61	-13	-45.39	150.3	Horizontal	PK	Pass
	5	13686.0000	·	18.22		54		150.3	Horizontal	AV	Pass
	6	17992.5000	-53.1	23.88	-76.98	-13	-40.1	290.2	Horizontal	PK	Pass
1	6	17992.5000		23.88		54		290.2	Horizontal	AV	Pass

WS CT W5 C7 WS CT W5 CT W5 C1

WSCT W5 CT WSET

> W5 CT W5 CT WS CT W5 E7

ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenu Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

W5 CT

Page 96 of 171

W5CT



W5CT





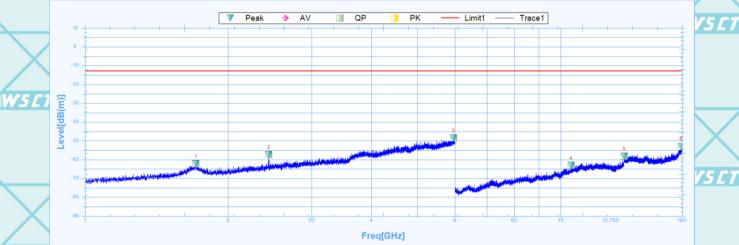
/SCT

W5 Report No.: WSCT-ANAB-R&E241100057A-RF5

W5 CT

W5 CT

Vertical:



W5E

W5 L

5 L	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	1712.5000	-62.12	24.96	-87.08	-13	-49.12	274.2	Vertical	PK	Pass
	1	1712.5000		24.96		54		274.2	Vertical	AV	Pass
/	2	2436.8750	-57.36	27.39	-84.75	-13	-44.36	57.8	Vertical	PK	Pass
	2	2436.8750		27.39		54		57.8	Vertical	AV	Pass
1	3	5955.6250	-48.52	32.73	-81.25	-13	-35.52	194.2	Vertical	PK	Pass
4	3	5955.6250		32.73		54		194.2	Vertical	AV	Pass
	4	10522.5000	-63.07	14.02	-77.09	-13	-50.07	344.9	Vertical	PK	Pass
	4	10522.5000		14.02		54		344.9	Vertical	AV	Pass
	5	13614.0000	-58.11	18.01	-76.12	-13	-45.11	352.9	Vertical	PK	Pass
	5	13614.0000		18.01		54		352.9	Vertical	AV	Pass
	6	17938.5000	-53	23.51	-76.51	-13	-40	43.9	Vertical	PK	Pass
1	6	17938.5000		23.51		54		43.9	Vertical	AV	Pass

W5CT

WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT

ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guanggong Province, China.

uilding A-B,Baoll'an Industrial Park,No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province. Chin. 86-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司 World Standardization Certification& Testing Group(Shenzhen) Co.,Lt

WSET

W5CT"

Page 97 of 171

WSCT WSCT



W5 CT

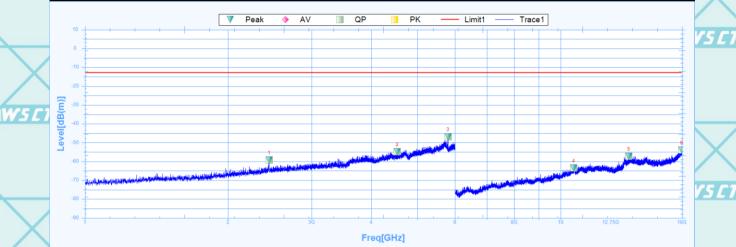




Report No.: WSCT-ANAB-R&E241100057A-RF

Band 42(3450-3550Mhz):

Horizontal:



W5 CT

W5CT

W5 [

W5L

	Suspu	uted Data Lis	st								
_	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2441.2500	-59.36	27.4	-86.76	-13	-46.36	232.5	Horizontal	PK	Pass
	1	2441.2500		27.4		54		232.5	Horizontal	AV	Pass
	2	4539.3750	-54.96	30.68	-85.64	-13	-41.96	257.5	Horizontal	PK	Pass
/	2	4539.3750		30.68		54		257.5	Horizontal	AV	Pass
	3	5800.6250	-46.82	32.48	-79.3	-13	-33.82	172.7	Horizontal	PK	Pass
	3	5800.6250		32.48		54		172.7	Horizontal	AV	Pass
Ż	4	10665.0000	-63.56	14.54	-78.1	-13	-50.56	202.9	Horizontal	PK	Pass
	4	10665.0000		14.54		54		202.9	Horizontal	AV	Pass
	5	13918.5000	-57.29	18.88	-76.17	-13	-44.29	72.6	Horizontal	PK	Pass
	5	13918.5000		18.88		54		72.6	Horizontal	AV	Pass
	6	17988.0000	-54.05	23.84	-77.89	-13	-41.05	212.5	Horizontal	PK	Pass
	6	17988.0000		23.84		54		212.5	Horizontal	AV	Pass

WS C WSE

W5 CT W5 C1 WS CI W5CT

W5 ET WS ET

> W5 CT NS CT WS CT W5C1

WSCI Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue

FAX: 0086-755-86376605 TEL: 0086-755-26996192 26996053 26996144 Member of the WSCT Group (WSCT SA)

WON # 深圳世标检测认证股份有限公司

ation& Testion

W5CT

W5CT

Page 98 of 171

W5CT W5 CT



W5 CT

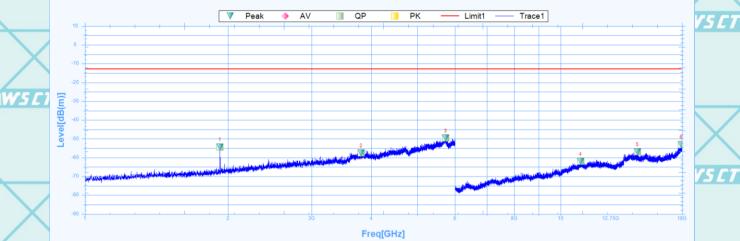




Report No.: WSCT-ANAB-R&E241100057A-RF

W5CT





W5CT

W5 E

W5 L

L	Suspu	ited Data Lis	t								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	1922.5000	-54.32	25.55	-79.87	-13	-41.32	359.9	Vertical	PK	Pass
-	1	1922.5000		25.55		54		359.9	Vertical	AV	Pass
/	2	3808.7500	-57.56	29.24	-86.8	-13	-44.56	118.7	Vertical	PK	Pass
	2	3808.7500		29.24		54		118.7	Vertical	AV	Pass
	3	5736.8750	-49.62	32.38	-82	-13	-36.62	37.4	Vertical	PK	Pass
7	3	5736.8750		32.38		54		37.4	Vertical	AV	Pass
	4	11019.0000	-61.87	15.67	-77.54	-13	-48.87	38	Vertical	PK	Pass
	4	11019.0000		15.67		54		38	Vertical	AV	Pass
	5	14509.5000	-56.87	18.62	-75.49	-13	-43.87	290.2	Vertical	PK	Pass
	5	14509.5000		18.62		54		290.2	Vertical	AV	Pass
	6	17943.0000	-53.05	23.53	-76.58	-13	-40.05	213.7	Vertical	PK	Pass
1	6	17943.0000		23.53		54		213.7	Vertical	AV	Pass

W5 CI W5 C W5 C

WS CT W5 C7 WS CT W5 CT W5 C1

WS CT WSCT W5 CT WSET

> W5 CT W5 CT WS CT W5 E7

Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenu

FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

W5 CT

W5 CT W5 CT Page 99 of 171

W5 CT

W5CT

rs ci



W5 CT





15 CT

Report No.: WSCT-ANAB-R&E241100057A-RF

W5CT

Band 66: Horizontal:



W5CT°

W5 E

W5L

7	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2438.1250	-59.62	27.39	-87.01	-13	-46.62	133.2	Horizontal	PK	Pass
-	1	2438.1250		27.39		54		133.2	Horizontal	AV	Pass
/	2	3678.7500	-56.34	28.93	-85.27	-13	-43.34	66.2	Horizontal	PK	Pass
	2	3678.7500		28.93		54		66.2	Horizontal	AV	Pass
1	3	5963.1250	-47.12	32.74	-79.86	-13	-34.12	0.5	Horizontal	PK	Pass
ý	3	5963.1250		32.74		54		0.5	Horizontal	AV	Pass
	4	10921.5000	-61.6	15.18	-76.78	-13	-48.6	127.5	Horizontal	PK	Pass
	4	10921.5000		15.18		54		127.5	Horizontal	AV	Pass
	5	14062.5000	-57.83	19.06	-76.89	-13	-44.83	324.8	Horizontal	PK	Pass
	5	14062.5000		19.06		54		324.8	Horizontal	AV	Pass
	6	17947.5000	-53.28	23.56	-76.84	-13	-40.28	320	Horizontal	PK	Pass
1	6	17947.5000		23.56		54		320	Horizontal	AV	Pass

WS C WSE

W5 ET W5 C7 W5 E1 W5 CT W5 C1

W5 CT W5 ET W5 CT

> W5 CT WS ET WS CT W5 C1

Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenu

FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

Page 100 of 171

W5 CT W5 CT



W5CT



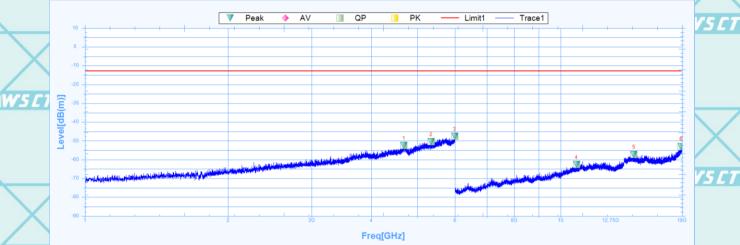


15 CI

W5 Report No.: WSCT-ANAB-R&E241100057A-RF5

W5CT"

Vertical:



W5 CT

W5E

W5 E

U	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	4684.3750	-52.41	30.97	-83.38	-13	-39.41	35.2	Vertical	PK	Pass
-	1	4684.3750		30.97		54		35.2	Vertical	AV	Pass
1	2	5345.6250	-50.5	31.88	-82.38	-13	-37.5	232.4	Vertical	PK	Pass
	2	5345.6250		31.88		54		232.4	Vertical	AV	Pass
1	3	5991.8750	-47.49	32.79	-80.28	-13	-34.49	118.8	Vertical	PK	Pass
7	3	5991.8750		32.79		54		118.8	Vertical	AV	Pass
-	4	10800.0000	-62.65	14.77	-77.42	-13	-49.65	11.8	Vertical	PK	Pass
	4	10800.0000		14.77		54		11.8	Vertical	AV	Pass
	5	14263.5000	-57.19	18.86	-76.05	-13	-44.19	8	Vertical	PK	Pass
	5	14263.5000		18.86		54		8	Vertical	AV	Pass
	6	17922.0000	-52.99	23.4	-76.39	-13	-39.99	357.5	Vertical	PK	Pass
1	6	17922.0000		23.4		54		357.5	Vertical	AV	Pass

W5CT

WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT

ADD: Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China.

TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http: www.wsct-cert.com

深圳世标检测认正股份有 world Standard zation Certifit

Page 101 of 171

深圳世标检测认证股份有限公司
World Standard Pation Certification& Testing Group(Shenzhen) Co.,Ltd.

Page 101 of 17

WSET

W5 CT

WSE

WSCT WSCT



W5ET





W5 / Report No.: WSCT-ANAB-R&E241100057A-RF5 / /

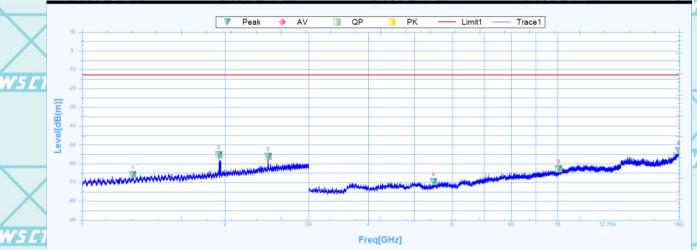
W5CT°

W5CT

NR Bands

n5:

Horizontal:



	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	1280.2500	-65.85	24.68	-90.53	-13	-52.85	106.9	Horizontal	PK	Pass
	1	1280.2500		24.68		54		106.9	Horizontal	AV	Pass
	2	1941.5000	-55.41	25.64	-81.05	-13	-42.41	49.5	Horizontal	PK	Pass
	2	1941.5000		25.64		54		49.5	Horizontal	AV	Pass
业	3	2463.7500	-56.18	27.48	-83.66	-13	-43.18	360.1	Horizontal	PK	Pass
	3	2463.7500		27.48		54		360.1	Horizontal	AV	Pass
	4	5490.0000	-69.61	31.99	-101.6	-13	-56.61	66.6	Horizontal	PK	Pass
	4	5490.0000		31.99		54		66.6	Horizontal	AV	Pass
	5	10065.0000	-62.75	12.54	-75.29	-13	-49.75	195.7	Horizontal	PK	Pass
	5	10065.0000	·	12.54	·	54		195.7	Horizontal	AV	Pass
1	6	17992.5000	-53.08	23.88	-76.96	-13	-40.08	104.9	Horizontal	PK	Pass
	6	17992.5000		23.88		54		104.9	Horizontal	AV	Pass

WSET	WSET	WSET	WSE	7° W	SCT
		\times			\times
W5	CT° W	S C T°	WSET	WS ET"	WSCT
			X		X
WS CT*	WSET	WSET	WSE	7 W	SET°
		X			X
WS	ET W	SET°	W5 CT°	WSET	stification & Testing C
					Cortino Co Cafe

ADD: Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http: www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standard Standard

W5CT

Pag

Member of the WSCT Group (WSCT SA)

Page 102 of 171

WSCT



W5ET



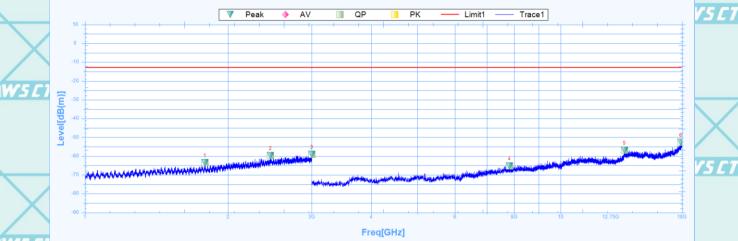


Report No.: WSCT-ANAB-R&E241100057A-RF

W5CT

W5CT°

Vertical:



W5 E

-	Suspu	ited Data Lis	st									
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	1787.2500	-63.39	24.99	-88.38	-13	-50.39	111.5	Vertical	PK	Pass	7
	1	1787.2500		24.99		54		111.5	Vertical	AV	Pass	ŕ
/	2	2456.0000	-59.76	27.45	-87.21	-13	-46.76	104.3	Vertical	PK	Pass	ı
/	2	2456.0000		27.45		54		104.3	Vertical	AV	Pass	
	3	2999.2500	-59.01	28.2	-87.21	-13	-46.01	137.8	Vertical	PK	Pass	
	3	2999.2500		28.2		54		137.8	Vertical	AV	Pass	
	4	7811.2500	-65.3	7.99	-73.29	-13	-52.3	143.9	Vertical	PK	Pass	
	4	7811.2500		7.99		54		143.9	Vertical	AV	Pass	
	5	13627.5000	-56.95	18.05	-75	-13	-43.95	81.8	Vertical	PK	Pass	1
	5	13627.5000		18.05		54		81.8	Vertical	AV	Pass	И
	6	17908.1250	-52.72	23.31	-76.03	-13	-39.72	5.8	Vertical	PK	Pass	1
/	6	17908.1250		23.31		54		5.8	Vertical	AV	Pass	

WSE

WS CT W5 C7 WS CT W5 CT W5 C1

W5 CT W5 ET WSET

> W5 CT W5 CT WS CT W5 C1

ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenu

FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

W5 CT

Page 103 of 171

W5CT



W5 CT



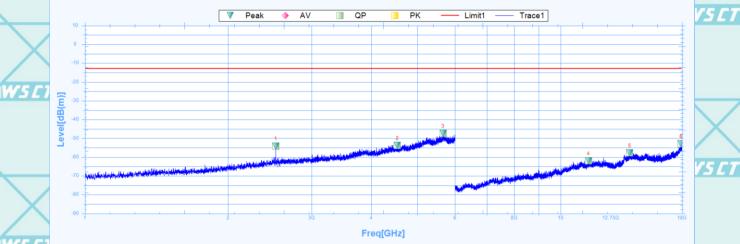


Report No.: WSCT-ANAB-R&E241100057A-RF

W5CT

W5 CT

n7: Horizontal:



W5 E

W5 E

W.												
_	Suspu	ited Data Lis	st									
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2519.3750	-54.1	27.62	-81.72	-13	-41.1	357.4	Horizontal	PK	Pass	ŀ
	1	2519.3750		27.62		54		357.4	Horizontal	AV	Pass	l
/	2	4540.0000	-53.68	30.68	-84.36	-13	-40.68	29.8	Horizontal	PK	Pass	
	2	4540.0000		30.68		54		29.8	Horizontal	AV	Pass	
	3	5661.8750	-47.46	32.26	-79.72	-13	-34.46	354.2	Horizontal	PK	Pass	
Ĺ	3	5661.8750		32.26		54		354.2	Horizontal	AV	Pass	
	4	11454.0000	-61.84	16	-77.84	-13	-48.84	262.3	Horizontal	PK	Pass	١
	4	11454.0000		16		54		262.3	Horizontal	AV	Pass	
	5	13981.5000	-57.68	19.07	-76.75	-13	-44.68	323.3	Horizontal	PK	Pass	
	5	13981.5000		19.07		54		323.3	Horizontal	AV	Pass	ŀ
	6	17934.0000	-52.93	23.48	-76.41	-13	-39.93	15.7	Horizontal	PK	Pass	ı
1	6	17934.0000		23.48		54		15.7	Horizontal	AV	Pass	

W5 CI W5 C WSE

WS CT W5 C7 WS CT W5 CT W5 CT

W5CT W5 ET WSET WSET

> W5 CT W5 CT W5 C7 W5 E7

Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenu FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

W5CT

Page 104 of 171

WSET

WSET

W5CT

rs c i



W5 CT





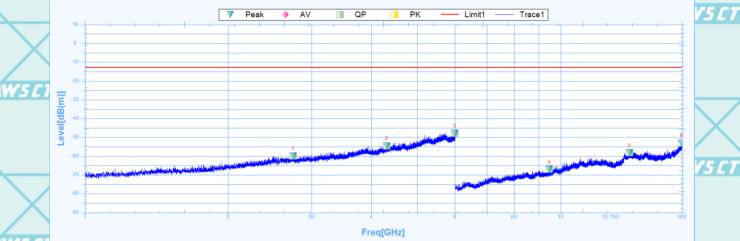
rs c t

W5 Report No.: WSCT-ANAB-R&E241100057A-RF5

W5 CT

W5 CT

Vertical:



W5E

W5 L

	Suspu	ited Data Lis	t									,
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2739.3750	-59.92	8	-67.92	-13	-46.92	57	Vertical	PK	Pass	7
	1	2739.3750		8		54		57	Vertical	AV	Pass	ľ
/	2	4311.2500	-54.55	14.47	-69.02	-13	-41.55	48.7	Vertical	PK	Pass	
/	2	4311.2500		14.47		54		48.7	Vertical	AV	Pass	
	3	5993.1250	-47.8	22.97	-70.77	-13	-34.8	358.8	Vertical	PK	Pass	
5	3	5993.1250		22.97		54		358.8	Vertical	AV	Pass	
	4	9468.0000	-66.98	37.73	-104.71	-13	-53.98	271.8	Vertical	PK	Pass	١
	4	9468.0000		37.73		54		271.8	Vertical	AV	Pass	
	5	13963.5000	-58.16	41.41	-99.57	-13	-45.16	103.4	Vertical	PK	Pass	1
	5	13963.5000		41.41		54		103.4	Vertical	AV	Pass	7
	6	17976.0000	-53.07	46.34	-99.41	-13	-40.07	19.1	Vertical	PK	Pass	ľ
/	6	17976.0000		46.34		54		19.1	Vertical	AV	Pass	

WS CT W5 CI WS ET

W5 CT W5 C7 WS CT W5 CT W5 C1

WS CT W5 ET WSET W5 CT

> W5 CT W5 CT W5 C7 W5 E7

Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenu

FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

W5 CT

Page 105 of 171

W5 CT W5CT

W5 CT



W5ET





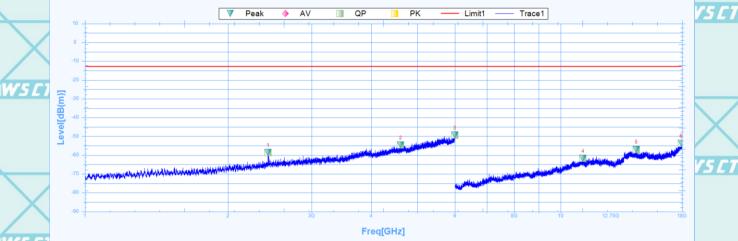
rs ci

Report No.: WSCT-ANAB-R&E241100057A-RF

W5CT

W5CT°

n12: Horizontal:



WSE.

W5E

Susp	uted Data Lis	st								
NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2428.1250	-58.6	6.31	-64.91	-13	-45.6	307	Horizontal	PK	Pass
1	2428.1250		6.31		54		307	Horizontal	AV	Pass
2	4613.1250	-54.71	15.68	-70.39	-13	-41.71	27.3	Horizontal	PK	Pass
2	4613.1250		15.68		54		27.3	Horizontal	AV	Pass
3	5995.0000	-49.44	22.99	-72.43	-13	-36.44	0	Horizontal	PK	Pass
3	5995.0000		22.99		54		0	Horizontal	AV	Pass
4	11149.5000	-61.64	39.37	-101.01	-13	-48.64	275.4	Horizontal	PK	Pass
4	11149.5000		39.37		54		275.4	Horizontal	AV	Pass
5	14436.0000	-56.97	40.93	-97.9	-13	-43.97	18.2	Horizontal	PK	Pass
5	14436.0000		40.93		54		18.2	Horizontal	AV	Pass
6	17938.5000	-53.83	46.09	-99.92	-13	-40.83	1.4	Horizontal	PK	Pass
6	17938.5000		46.09		54		1.4	Horizontal	AV	Pass

WS C WSE

> W5 CT W5 C7 WS CT W5 CT W5 C1

W5 CT W5 ET WSET

> W5 CT WS ET WS CT W5 E7

Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenu

FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

Page 106 of 171

W5 CT W5 CT







W 5 C Report No.: WSCT-ANAB-R&E241100057A-RF 5 CT

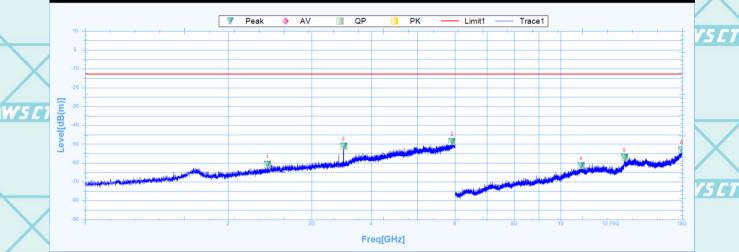
W5 CT

W5 CT



W5CT

Vertical:



W5 E

W5 L

<u> </u>	Suspu	ted Data Lis	st									
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2420.6250	-60.85	6.24	-67.09	-13	-47.85	359.1	Vertical	PK	Pass	1
	1	2420.6250		6.24		54		359.1	Vertical	AV	Pass	7
	2	3498.1250	-51.09	10.5	-61.59	-13	-38.09	143.1	Vertical	PK	Pass	Ī
/	2	3498.1250		10.5		54		143.1	Vertical	AV	Pass	
/	3	5915.0000	-48.73	22.25	-70.98	-13	-35.73	359.6	Vertical	PK	Pass	
	3	5915.0000		22.25		54		359.6	Vertical	AV	Pass	
4	4	11050.5000	-61.43	39.45	-100.88	-13	-48.43	1.9	Vertical	PK	Pass	
	4	11050.5000		39.45		54		1.9	Vertical	AV	Pass	1
	5	13629.0000	-57.09	40.54	-97.63	-13	-44.09	13.7	Vertical	PK	Pass	
	5	13629.0000		40.54		54		13.7	Vertical	AV	Pass	1
	6	17991.0000	-53.13	46.44	-99.57	-13	-40.13	343.5	Vertical	PK	Pass	7
	6	17991.0000		46.44		54		343.5	Vertical	AV	Pass	

W5 C1 W5 C WSE

W5 CT WS CT W5 E7 W5 CT W5 CT

W5CT WSET W5 ET W5 CT W5 CT

> W5 CT W5 ET W5 CT W5 ET

WSEI Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenu

W5CT

FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

W5 CT

Member of the WSCT Group (WSCT SA)

Page 107 of 171

W5CT

ation& Testin

W5CT

WSET



W5ET





rs ci

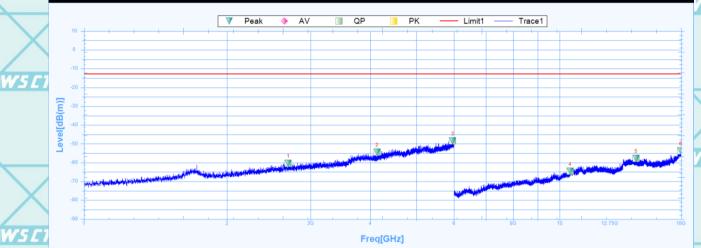
Report No.: WSCT-ANAB-R&E241100057A-RF

W5 CT

n38: Horizontal:

W5C

W5L



W5CT

	Suspu	uted Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2689.3750	-60.47	7.78	-68.25	-13	-47.47	149.1	Horizontal	PK	Pass
/	1	2689.3750		7.78		54		149.1	Horizontal	AV	Pass
/	2	4135.0000	-54.52	13.7	-68.22	-13	-41.52	179	Horizontal	PK	Pass
	2	4135.0000		13.7		54		179	Horizontal	AV	Pass
4	3	5963.7500	-48.38	22.65	-71.03	-13	-35.38	260.2	Horizontal	PK	Pass
	3	5963.7500		22.65		54		260.2	Horizontal	AV	Pass
	4	10527.0000	-64.57	38.84	-103.41	-13	-51.57	295.8	Horizontal	PK	Pass
	4	10527.0000		38.84		54		295.8	Horizontal	AV	Pass
	5	14488.5000	-57.83	40.86	-98.69	-13	-44.83	301.8	Horizontal	PK	Pass
	5	14488.5000		40.86		54		301.8	Horizontal	AV	Pass
/	6	17991.0000	-53.79	46.44	-100.23	-13	-40.79	41.1	Horizontal	PK	Pass
1	6	17991.0000		46.44		54		41.1	Horizontal	AV	Pass

WS CT W5 CT W5 E7 W5 CT W5 CT

WS CT W5 ET W5 CT W5 CT

> W5 CT W5 ET WS CT W5 ET

Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Aveni FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

Page 108 of 171

W5 CT

W5 CT



W5 CT





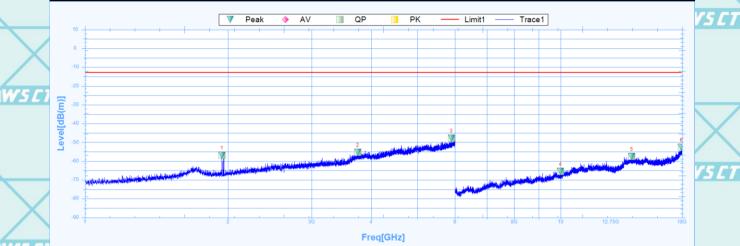
rs c i

Report No.: WSCT-ANAB-R&E241100057A-RF

W5 CT

W5 CT

Vertical:



WSE.

W5 E

Susp	uted Data Lis	st								
NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1941.2500	-56.83	2.9	-59.73	-13	-43.83	145	Vertical	PK	Pass
1	1941.2500		2.9		54		145	Vertical	AV	Pass
2	3747.5000	-55.28	11.89	-67.17	-13	-42.28	359.9	Vertical	PK	Pass
2	3747.5000		11.89		54		359.9	Vertical	AV	Pass
3	5893.7500	-47.88	22.12	-70	-13	-34.88	323.1	Vertical	PK	Pass
3	5893.7500		22.12		54		323.1	Vertical	AV	Pass
4	9997.5000	-65.53	38.1	-103.63	-13	-52.53	207.8	Vertical	PK	Pass
4	9997.5000		38.1		54		207.8	Vertical	AV	Pass
5	14112.0000	-57.46	41.35	-98.81	-13	-44.46	309.4	Vertical	PK	Pass
5	14112.0000		41.35		54		309.4	Vertical	AV	Pass
6	17961.0000	-52.66	46.24	-98.9	-13	-39.66	158.7	Vertical	PK	Pass
6	17961.0000		46.24		54		158.7	Vertical	AV	Pass

WS CT W5 CI WS ET

> W5 CT W5 C7 W5 C7 W5 CT W5 CT

WS CT W5 ET WSET W5 CT

> W5 CT W5 CT W5 C7 W5 E7

Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenu

W5CT

FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

W5 CT

Page 109 of 171

W5 CT W5CT

W5 CT



W5ET



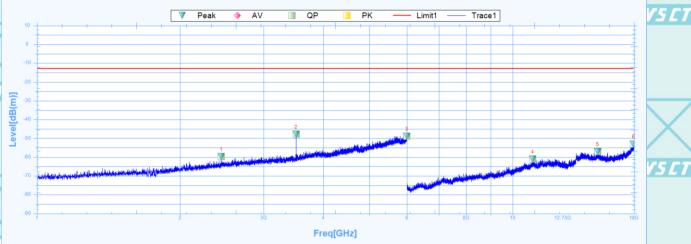


Report No.: WSCT-ANAB-R&E241100057A-RF 5

W5CT

W5CT°

n41: Horizontal:



W5 E

W5 L

W5 CI

_	Suspu	ted Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2441.8750	-59.76	6.47	-66.23	-13	-46.76	293.4	Horizontal	PK	Pass
,	1	2441.8750		6.47		54		293.4	Horizontal	AV	Pass
	2	3507.5000	-47.86	10.58	-58.44	-13	-34.86	2.4	Horizontal	PK	Pass
/	2	3507.5000		10.58		54		2.4	Horizontal	AV	Pass
Ü	3	5995.6250	-48.81	22.99	-71.8	-13	-35.81	36.4	Horizontal	PK	Pass
Ĺ	3	5995.6250		22.99		54		36.4	Horizontal	AV	Pass
	4	11025.0000	-61.07	39.48	-100.55	-13	-48.07	312.9	Horizontal	PK	Pass
	4	11025.0000		39.48		54		312.9	Horizontal	AV	Pass
	5	15097.5000	-57.18	39.9	-97.08	-13	-44.18	223.2	Horizontal	PK	Pass
	5	15097.5000		39.9		54		223.2	Horizontal	AV	Pass
	6	17971.5000	-53.2	46.31	-99.51	-13	-40.2	315.3	Horizontal	PK	Pass
/	6	17971.5000		46.31		54		315.3	Horizontal	AV	Pass

WSE

WS CT W5 C7 W5 C7 W5 CT W5 C1

WSCT W5 CT WSET

> W5 CT W5 CT WS CT W5 E7

Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenu

FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

W5CT

Page 110 of 171

W5 CT W5 CT



W5 CT



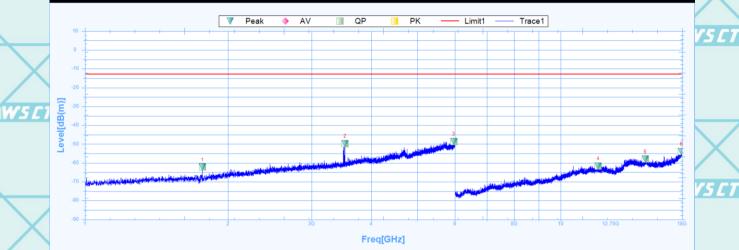


S C T

WS Report No.: WSCT-ANAB-R&E241100057A-RF

W5CT

Vertical:



W5CT°

Susputed Data List

W51

47	Suspu	ited Data Lis	ST.									
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	1766.8750	-62.13	1.55	-63.68	-13	-49.13	360.1	Vertical	PK	Pass	
	1	1766.8750		1.55		54		360.1	Vertical	AV	Pass	7
	2	3523.7500	-49.69	10.72	-60.41	-13	-36.69	126.1	Vertical	PK	Pass	
/	2	3523.7500		10.72		54		126.1	Vertical	AV	Pass	
	3	5964.3750	-48.58	22.66	-71.24	-13	-35.58	360.1	Vertical	PK	Pass	
-	3	5964.3750		22.66		54		360.1	Vertical	AV	Pass	
7	4	12001.5000	-61.61	38.6	-100.21	-13	-48.61	312.6	Vertical	PK	Pass	
	4	12001.5000		38.6		54		312.6	Vertical	AV	Pass	
	5	15070.5000	-57.88	39.98	-97.86	-13	-44.88	0.5	Vertical	PK	Pass	
	5	15070.5000		39.98		54		0.5	Vertical	AV	Pass	
	6	17965.5000	-53.87	46.27	-100.14	-13	-40.87	13.5	Vertical	PK	Pass	7
	6	17965.5000		46.27		54		13.5	Vertical	AV	Pass	

WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT WSCT

WSET WSET WSET WSET

WSET WSET WSET WSET

ADD: Building A-B,Baoli'an Industrial Park,No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China.

NDD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, Chin.

EL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

ma. 深圳世标检测认证股份有限公司 World Standard gation Certification & Testing Group (Shenzhen) Co.,Ltd

WSCT WSCT

Page 111 of 171

WSCT WSCT

ation& Testin



W5 CT





15 CT

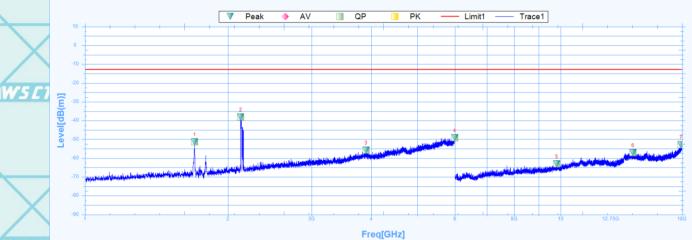
rs ci

Report No.: WSCT-ANAB-R&E241100057A-RF

W5 CT

W5 CT

n66: Horizontal:



W5 C1

W5 C

2	Suspu	ited Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	1700.6250	-51.4	1.25	-52.65	-13	-38.4	292.6	Horizontal	PK	Pass
	1	1700.6250		1.25		54		292.6	Horizontal	AV	Pass
/	2	2126.8750	-38.05	4.4	-42.45	-13	-25.05	42.7	Horizontal	PK	Pass
\	2	2126.8750		4.4		54		42.7	Horizontal	AV	Pass
_	3	3901.2500	-55.7	12.63	-68.33	-13	-42.7	357.6	Horizontal	PK	Pass
7	3	3901.2500		12.63		54		357.6	Horizontal	AV	Pass
	4	5994.3750	-49.19	22.98	-72.17	-13	-36.19	107.3	Horizontal	PK	Pass
	4	5994.3750		22.98		54		107.3	Horizontal	AV	Pass
	5	9819.0000	-63	37.97	-100.97	-13	-50	18.9	Horizontal	PK	Pass
	5	9819.0000		37.97		54		18.9	Horizontal	AV	Pass
	6	14197.5000	-57.02	41.24	-98.26	-13	-44.02	0	Horizontal	PK	Pass
/	6	14197.5000		41.24		54		0	Horizontal	AV	Pass
/	7	17923.5000	-52.88	45.99	-98.87	-13	-39.88	223.3	Horizontal	PK	Pass
_	7	17923.5000		45.99		54		223.3	Horizontal	AV	Pass

WSCT WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT WSCT

WSET WSET WSET

ADD: Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China TEL: 0086-755-26996192 26996053 29996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standard action Certification& Testing Group(Shenzhen) Co.,Ltr

W5CT

Page 112 of 171

WSI

ember of the WSCT Group (WSCT 8A)

WS CT WS CT



W5CT

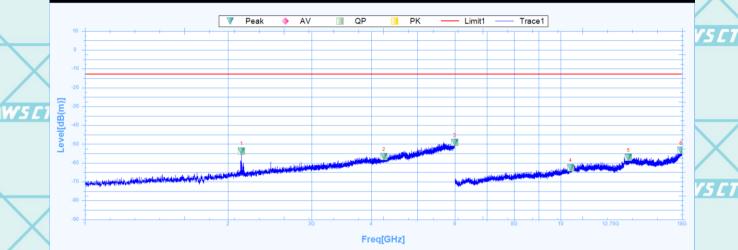




Report No.: WSCT-ANAB-R&E241100057A-RF

W5CT

Vertical:



W5CT

W5 C1

W5 C

J	Suspu	ıted Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2135.0000	-53.65	4.4	-58.05	-13	-40.65	360.1	Vertical	PK	Pass
	1	2135.0000		4.4		54		360.1	Vertical	AV	Pass
	2	4253.1250	-56.65	14.23	-70.88	-13	-43.65	263.4	Vertical	PK	Pass
/	2	4253.1250		14.23		54		263.4	Vertical	AV	Pass
\	3	5993.1250	-49.11	22.97	-72.08	-13	-36.11	3.4	Vertical	PK	Pass
	3	5993.1250		22.97		54		3.4	Vertical	AV	Pass
Ż	4	10500.0000	-62.49	38.8	-101.29	-13	-49.49	360.1	Vertical	PK	Pass
	4	10500.0000		38.8		54		360.1	Vertical	AV	Pass
	5	13900.5000	-57.04	41.24	-98.28	-13	-44.04	0.5	Vertical	PK	Pass
	5	13900.5000		41.24		54		0.5	Vertical	AV	Pass
	6	17926.5000	-53.37	46.01	-99.38	-13	-40.37	87.8	Vertical	PK	Pass
	6	17926.5000		46.01		54		87.8	Vertical	AV	Pass

W5CT

WSET WSET WSET WSET

WSCT WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT

WS ET

WS ET

ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China.

DD: Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, Chi EL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standard Zation Certification & Testing Group (Shenzhen) Co.,Ltd

ember of the WSCT Group (WSCT 8A)

W5 CT

WSET

Page 113 of 171

WSCT WSCT

ation& Testin



W5 E

World Standardization Certification & Testing Group (Shenzhen) Co., ltd.

W5 CT

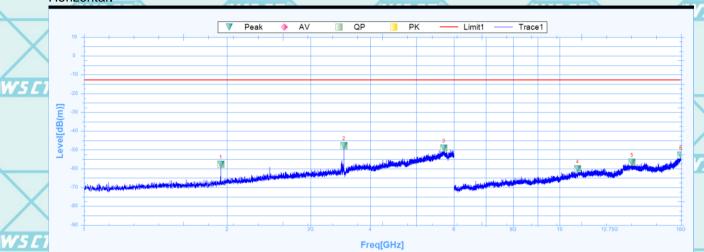




W5 CReport No.: WSCT-ANAB-R&E241100057A-RF 5 CT

W5CT°

n77(3450-3550Mhz): Horizontal:



W5CT

	Suspu	ited Data Lis	t								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	1940.6250	-57.69	2.89	-60.58	-13	-44.69	14	Horizontal	PK	Pass
/	1	1940.6250		2.89		54		14	Horizontal	AV	Pass
	2	3522.5000	-47.77	10.7	-58.47	-13	-34.77	255.4	Horizontal	PK	Pass
	2	3522.5000		10.7		54		255.4	Horizontal	AV	Pass
Ż	3	5711.2500	-49.08	22.8	-71.88	-13	-36.08	272.2	Horizontal	PK	Pass
	3	5711.2500		22.8		54		272.2	Horizontal	AV	Pass
	4	10915.5000	-60.25	39.38	-99.63	-13	-47.25	1	Horizontal	PK	Pass
	4	10915.5000		39.38		54		1	Horizontal	AV	Pass
	5	14202.0000	-56.63	41.24	-97.87	-13	-43.63	195.4	Horizontal	PK	Pass
	5	14202.0000		41.24		54		195.4	Horizontal	AV	Pass
/	6	17995.5000	-52.91	46.47	-99.38	-13	-39.91	248	Horizontal	PK	Pass
	6	17995.5000		46.47		54		248	Horizontal	AV	Pass

	WSET	W5LT	WSET	W5 ET	WSCT
WSET	WSE	WS		500	W5CT

WS CT WS CT

ADD: Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China
TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standard ration Certification& Testing Group(Shenzhen) Co.,Ltd.

Group (WSCT &A)

Page 114 of 171

TT WS

WSCT WSCT



W5CT





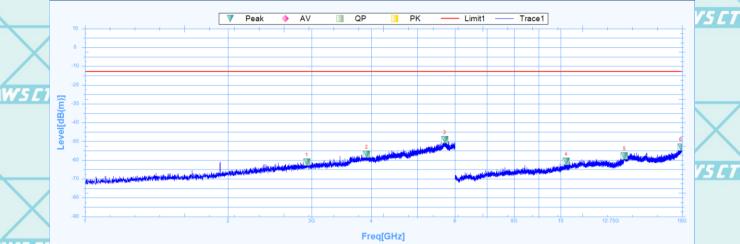
VS C1

Report No.: WSCT-ANAB-R&E241100057A-RF

W5 CT

W5CT°

Vertical:



W5 E

W5 L

	Suspu	uted Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2928.1250	-61.12	8.57	-69.69	-13	-48.12	69	Vertical	PK	Pass
-	1	2928.1250		8.57		54		69	Vertical	AV	Pass
/	2	3912.5000	-56.83	12.66	-69.49	-13	-43.83	156.3	Vertical	PK	Pass
\	2	3912.5000		12.66		54		156.3	Vertical	AV	Pass
	3	5708.7500	-49.14	22.78	-71.92	-13	-36.14	352.4	Vertical	PK	Pass
鬼	3	5708.7500		22.78		54		352.4	Vertical	AV	Pass
	4	10281.0000	-60.67	38.49	-99.16	-13	-47.67	261	Vertical	PK	Pass
	4	10281.0000		38.49		54		261	Vertical	AV	Pass
	5	13626.0000	-57.81	40.53	-98.34	-13	-44.81	1.2	Vertical	PK	Pass
	5	13626.0000		40.53		54		1.2	Vertical	AV	Pass
	6	17901.0000	-52.99	45.84	-98.83	-13	-39.99	123.6	Vertical	PK	Pass
/	6	17901.0000		45.84		54		123.6	Vertical	AV	Pass

WS CT W5 CI WS ET

W5 CT W5 C7 W5 C7 W5 CT W5 CT

WS CT WSCT WSET WSET

> W5 CT W5 CT W5 C7 W5 E7

Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenu

FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

Page 115 of 171

W5CT W5CT

W5 CT

W5 CT W5CT



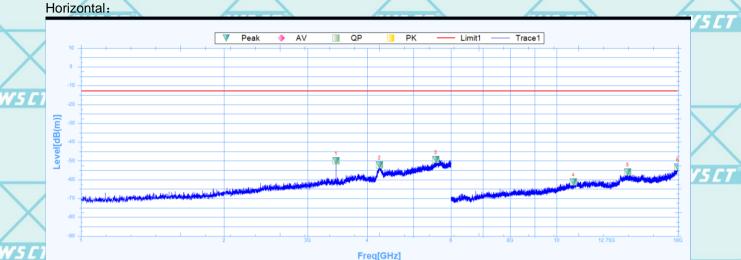




Report No.: WSCT-ANAB-R&E241100057A-RF

n77(3700-3980Mhz):

17986.5000



Susputed Data List Reading Deg Freq. Factor Level Limit Margin Verdict NO. **Polarity** Trace [dB] [dB(m)] [dB] [MHz] [dB(m)] [dB] [°] 3437.5000 -49.95 28.46 -78.41 -36.95 PΚ Pass -13 161.1 Horizontal 3437.5000 28.46 Pass 54 161.1 Horizontal ΑV 4243.7500 -52.19 30.14 -82.33 -13 -39.19 322.5 Horizontal PΚ Pass 54 Pass 4243.7500 30.14 322.5 ΑV Horizontal 3 5571.8750 -49.3 32.12 -81.42 -13 -36.3 284.2 Horizontal PK Pass 5571.8750 32.12 54 284.2 Horizontal ΑV Pass 10852.5000 14.86 PΚ -61.23 -76.09 -13 -48.23 203.6 Horizontal Pass 14.86 Pass 10852.5000 54 203.6 Horizontal ΑV 14109.0000 -56.01 19.02 -75.03 -13 -43.01 8.7 Horizontal PΚ Pass 5 14109.0000 19.02 54 8.7 Horizontal ΑV Pass 6 17986.5000 -53.23 23.83 -77.06 -13 -40.23 85.3 PΚ Pass Horizontal

54

85.3

Horizontal

ΑV

Pass

ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China.

23.83

FAX: 0086-755-86376605 Member of the WSCT Group (WSCT SA)

Page 116 of 171



W5 CT

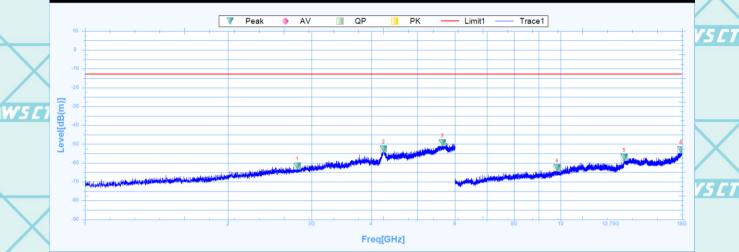




W 5 C Report No.: WSCT-ANAB-R&E241100057A-RF 5 CT

W5CT°

Vertical:



W5 CT

W5 C

W5 C

¥	Suspu	ited Data Lis	st									
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2796.2500	-61.72	27.96	-89.68	-13	-48.72	28.4	Vertical	PK	Pass	1
	1	2796.2500		27.96		54		28.4	Vertical	AV	Pass	ı
	2	4247.5000	-52.62	30.15	-82.77	-13	-39.62	0	Vertical	PK	Pass	ľ
	2	4247.5000		30.15		54		0	Vertical	AV	Pass	
	3	5643.1250	-49.38	32.23	-81.61	-13	-36.38	40.4	Vertical	PK	Pass	
	3	5643.1250		32.23		54		40.4	Vertical	AV	Pass	
Ż	4	9831.0000	-62.68	11.98	-74.66	-13	-49.68	268.2	Vertical	PK	Pass	
	4	9831.0000		11.98		54		268.2	Vertical	AV	Pass	١
	5	13612.5000	-57.13	18	-75.13	-13	-44.13	302.9	Vertical	PK	Pass	
	5	13612.5000		18		54		302.9	Vertical	AV	Pass	1
	6	17925.0000	-53.15	23.42	-76.57	-13	-40.15	292.1	Vertical	PK	Pass	ı
	6	17925.0000		23.42		54		292.1	Vertical	AV	Pass	ľ

W5 CI W5 C WSE

WS CT W5 C7 W5 E7 W5 CT W5 CT

W5CT WSET W5 ET W5 CT W5 CT

> W5 CT W5 ET W5 CT W5 ET

WSEI Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenu FAX: 0086-755-86376605

W5 CT

深圳世标检测认证股份有限公司

ation& Testin

W5CT

Member of the WSCT Group (WSCT SA)

WSET

Page 117 of 171

W5 CT W5CT



W5 CT

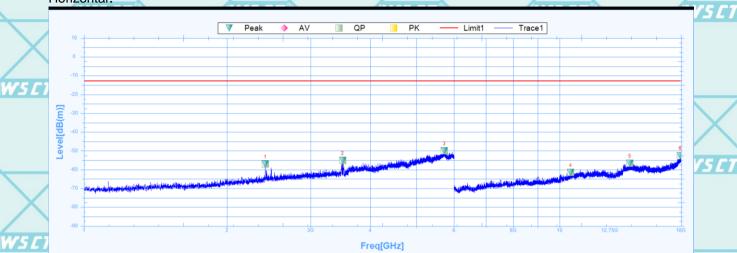




W 5 / Report No.: WSCT-ANAB-R&E241100057A-RF 5 / 7

W5CT°

n78(3450-3550Mhz): Horizontal:



W5CT

	Suspu	ıted Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2405.6250	-57	6.12	-63.12	-13	-44	346.5	Horizontal	PK	Pass
/	1	2405.6250		6.12		54		346.5	Horizontal	AV	Pass
\	2	3499.3750	-55.18	10.51	-65.69	-13	-42.18	119.2	Horizontal	PK	Pass
	2	3499.3750		10.51		54		119.2	Horizontal	AV	Pass
51	3	5725.0000	-49.99	22.68	-72.67	-13	-36.99	-0.1	Horizontal	PK	Pass
	3	5725.0000		22.68		54		-0.1	Horizontal	AV	Pass
	4	10555.5000	-61.47	38.88	-100.35	-13	-48.47	360.1	Horizontal	PK	Pass
	4	10555.5000		38.88		54		360.1	Horizontal	AV	Pass
	5	14050.5000	-56.54	41.43	-97.97	-13	-43.54	169.1	Horizontal	PK	Pass
	5	14050.5000		41.43		54		169.1	Horizontal	AV	Pass
/	6	17937.0000	-52.56	46.08	-98.64	-13	-39.56	72.2	Horizontal	PK	Pass
/	6	17937.0000		46.08		54		72.2	Horizontal	AV	Pass

WSET	WSET	WSCT	WSCT	WSCT
X				

WSCT WSCT WSCT WSCT WSCT WSCT WSCT WSCT

ADD: Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China TEL: 0086-755-26996192 26996053 29996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http: www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standard action Certification& Testing Group(Shenzhen) Co.,Ltr

ember of the WSCT Group (WSCT SA)

Page 118 of 171

W5 LT

W5CT°



WSET





W 5 C Report No.: WSCT-ANAB-R&E241100057A-RF 5 CT

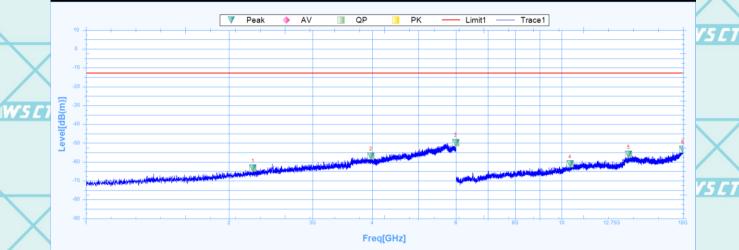
W5 CT

17.4

Vertical

ΑV

Vertical:



W5CT°

W5 C1			WSTT"		W5 C		W	5 <i> T T</i>		WS		
	Suspu	ted Data Lis	st									
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2245.0000	-63.19	5.25	-68.44	-13	-50.19	357.2	Vertical	PK	Pass	7
	1	2245.0000		5.25		54		357.2	Vertical	AV	Pass	1
	2	3975.0000	-56.85	12.84	-69.69	-13	-43.85	332	Vertical	PK	Pass	
	2	3975.0000		12.84		54		332	Vertical	AV	Pass	
_	3	5990.6250	-49.68	22.94	-72.62	-13	-36.68	280.6	Vertical	PK	Pass	
W5 CI	3	5990.6250		22.94		54		280.6	Vertical	AV	Pass	
	4	10420.5000	-61.07	38.69	-99.76	-13	-48.07	225.1	Vertical	PK	Pass	
	4	10420.5000		38.69		54		225.1	Vertical	AV	Pass	
	5	13837.5000	-55.91	41.08	-96.99	-13	-42.91	287.3	Vertical	PK	Pass	1
	5	13837.5000		41.08		54		287.3	Vertical	AV	Pass	7
	6	17988.0000	-53.32	46.42	-99.74	-13	-40.32	17.4	Vertical	PK	Pass	Н

	ZW5LT		AWS LT		VS LT		WSLI		VSLT I		1
7											
		X		X		X		X		\times	
. 6		W5ET		NS CT		WSET		W5 ET		W5 CT	1

WSET W5 CT

> W5 CT W5 CT WS CT W5 ET

ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenu Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China.

46.42

深圳世标检测认证股份有限公司

FAX: 0086-755-86376605 TEL: 0086-755-26996192 26996053 26996144

6

17988.0000

W5CT

SET

Pass



W5 ET

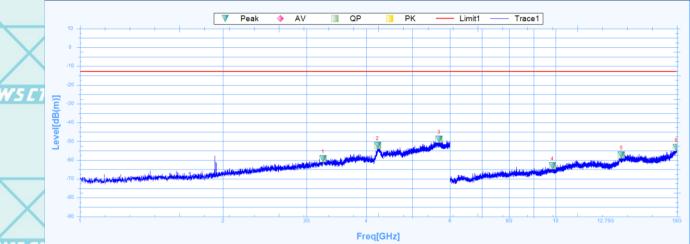




Report No.: WSCT-ANAB-R&E241100057A-RF

WSC

n78(3700-3800Mhz): Horizontal:



Susputed Data List Reading Freq. Factor Level Limit Margin Deg Polarity Trace Verdict [MHz] [dB(m)] [dB(m)] [dB] [dB] [dB] [°] 3242.5000 -59.22 10.31 -69.53 -13 -46.22 136.7 Horizontal PΚ Pass 3242.5000 10.31 54 136.7 ΑV Pass Horizontal PK 2 4224.3750 -52.25 16.38 -68.63 -13 -39.25 196.5 Horizontal Pass 2 4224.3750 16.38 54 196.5 Horizontal ΑV Pass 5690.6250 3 -48.82 -70.47 -13 -35.82 PΚ Pass 21.65 136.7 Horizontal 3 5690.6250 21.65 54 136.7 Horizontal ΑV Pass 9847.5000 -63.05 37.99 -101.04 -13 -50.05 200.6 Horizontal PΚ Pass 4 9847.5000 37.99 54 200.6 ΑV Pass Horizontal 5 -57.33 -98.2 -13 PK 13758.0000 40.87 -44.33 9.8 Horizontal Pass 5 40.87 54 13758.0000 9.8 Horizontal ΑV Pass 6 Pass -53.37 46.2 -99.57 -13 -40.37 PK 17955.0000 34.4 Horizontal 6 17955.0000 46.2 54 34.4 Horizontal ΑV Pass

ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China.

TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 深圳世标检测认证股份有限公司

Member of the WSCT Group (WSCT SA)

Page 120 of 171



W5 CT





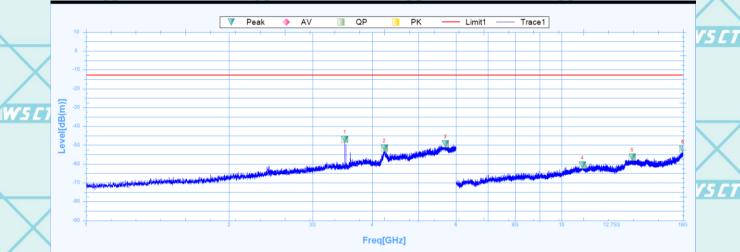
W 5 C Report No.: WSCT-ANAB-R&E241100057A-RF 5 CT

W5CT°

W5 CT



Vertical:



, ,	_		
		•	
		•	

W5 L

7	Suspu	ted Data Lis	st								
	NO.	Freq. [MHz]	Reading [dB(m)]	Factor [dB]	Level [dB(m)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	3501.8750	-46.91	10.46	-57.37	-13	-33.91	360	Vertical	PK	Pass
	1	3501.8750		10.46		54		360	Vertical	AV	Pass
7	2	4242.5000	-51.56	17.65	-69.21	-13	-38.56	175	Vertical	PK	Pass
	2	4242.5000		17.65		54		175	Vertical	AV	Pass
/	3	5701.8750	-49.45	21.69	-71.14	-13	-36.45	291	Vertical	PK	Pass
_	3	5701.8750		21.69		54		291	Vertical	AV	Pass
L	4	11068.5000	-60.66	39.44	-100.1	-13	-47.66	290.2	Vertical	PK	Pass
	4	11068.5000		39.44		54		290.2	Vertical	AV	Pass
	5	14077.5000	-56.33	41.4	-97.73	-13	-43.33	352.6	Vertical	PK	Pass
	5	14077.5000		41.4	·	54		352.6	Vertical	AV	Pass
	6	17995.5000	-52.28	46.47	-98.75	-13	-39.28	71.4	Vertical	PK	Pass
	6	17995.5000		46.47		54		71.4	Vertical	AV	Pass

W5 C1 W5 C WSE

WS CT

W5 CT

W5 E7

W5 CT

W5 CT

rs ct

W5CT

WSET

W5 CT

W5 ET

W5 CT

W5 CT

W5 ET

W5 CT

W5 ET

ation& Testin W5CT

WSEI

Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. ADD: Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenu FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

Member of the WSCT Group (WSCT SA)

Page 121 of 171

W5 CT W5CT

WSET

W5 CT







Report No.: WSCT-ANAB-R&E241100057A-RF

9. OCCUPIED BANDWIDTH& EMISSION BANDWIDTH

Test limit:

The occupied bandwidth (OBW), that is the frequency bandwidth such that, below its lower 15 and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission, shall be measured when modulated by an input signal such that its amplitude and symbol rate represent the maximum rated conditions under which the equipment will be operated. The signal shall be applied through any filter networks, pseudo-random generators or other devices required in normal service. Additionally, the occupied bandwidth shall be shown for operation with any devices used for modifying the spectrum when such devices are optional at the discretion of the user. [¡ì2.1049(h)]

Many of the individual rule parts specify a relative OBW in lieu of the 99% OBW. In such cases, the OBW is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated by at least X dB below the transmitter power, where the value of X is typically specified as 26.

The relative OBW must be measured and reported when it is specified in the applicable rule part: otherwise, the 99% OBW shall be measured and reported. The test report shall specify which OBW is reported.

A spectrum/signal analyzer or other instrument providing a spectral display is recommended for these measurements and the video bandwidth shall be set to a value at least three times greater than the IF/resolution bandwidth to avoid any amplitude smoothing. Video filtering shall not be used during occupied bandwidth tests.

The OBW shall be measured for all operating conditions that will affect the bandwidth results (e.g. variable modulations, coding, or channel bandwidth settings). See section 4.

Test procedure:

Occupied bandwidth - relative measurement procedure

The reference value is the highest level of the spectral envelope of the modulated signal.

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
- b) The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to prevent the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least 10log (OBW / RBW) below the reference level.
- d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.
- e) The dynamic range of the spectrum analyzer at the selected RBW shall be at least 10 dB below the target "-X dB down" requirement (i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference value).
- f) Set the detection mode to peak, and the trace mode to max hold.
- g) Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the "-X dB down amplitude" as equal to (Reference Value X). Alternatively, this calculation can be performed by the analyzer by using the marker-delta function.
- i) Place two markers, one at the lowest and the other at the highest frequency of the

Page 122 of 171

ANAB

World Standardization Certification & Testing Group (Shenzhen) Co., ltd.

Report No.: WSCT-ANAB-R&E241100057A-RF

envelope of the spectral display such that each marker is at or slightly below the "–X dB down amplitude" determined in step g). If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

j) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display. The frequency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Occupied bandwidth – power bandwidth (99%) measurement procedure

The following procedure shall be used for measuring (99 %) power bandwidth

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (i.e., two to five times the OBW).
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
- c) Set the reference level of the instrument as required to keep the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope must be at least 10log (OBW / RBW) below the reference level.
- d) NOTE—Steps a) through c) may require iteration to adjust within the specified tolerances.
- e) Set the detection mode to peak, and the trace mode to max hold...
- f) Use the 99 % power bandwidth function of the spectrum analyzer (if available) and report / S II the measured bandwidth.
- g) If the instrument does not have a 99 % power bandwidth function, the trace data points are to be 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 OBW shall be reported by providing plot(s) of the measuring instrument display. The requency and amplitude axes and scale shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

Test setup:

EUT RF Combiner Spectrum
Analyzer
Universal Radio
Communication

W5 ET W5 ET

□ 深圳世标権測认证股份有限公司 World Standard ration Certification & Testing Group (Shenzhen) Co. Li

Page 123 of 171

Member of the WSCT Group (WSCT SA)

SET

WSCT

W5 CT

W5 ET

WS CT

World Standardization Certification & Testing Group (Shenzhen) Co., ltd.

W5CT





W5 CReport No.: WSCT-ANAB-R&E241100057A-RF5 CT

9.1. Measurement Result

GSM850:

		GSIVIOSU.	
7	Frequency	OBW(99%)	26dB BW
	824.2	243.59KHz	310.90KHz
_	836.6	240.38KHz	310.90KHz
	848.8	240.38KHz	309.29KHz

WSET PCS1900: ET WSET

	Frequency	OBW(99%)	26dB BW
	1850.2	241.99KHz	293.27KHz
	1880	240.38KHz	309.29KHz
7.5	1909.8 W5E	241.99KHz	301.28KHz

GPRS850:

_	Frequency	OBW(99%)	26dB BW	77
	824.2	248.40KHz	315.71KHz	X
//_	836.6 W5 C	245.19KHz	304.49KHz	WSET
	848.8	246.79KHz	310.90KHz	

GPRS 1900:

	Frequency	OBW(99%)	26dB BW	4
7	1850.2 W5E	245.19KHz	304.49KHz	
	1880	240.38KHz	310.90KHz	
	1909.8	245.19KHz	317.31KHz	

WSET WSET WSET WSET

WSET WSET WSET

ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China

DD: Building A-B,Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, Chir EL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

Shenzhen City, Guangdong Province, China.
Ryll世标检测认证股份有限公司
World Standardization Certification& Testing Group (Shenzhen) Co

W5CT

(SET) WSE

Page 124 of 171

WSET



W5 CT





WS CReport No.: WSCT-ANAB-R&E241100057A-RF

ECDRS 850.

W5CT

1		EGPRS 650.	
7	Frequency	OBW(99%)	26dB BW
	824.2	240.38KHz	301.28KHz
	836.6	241.99KHz	301.28KHz
	848.8	241.99KHz	301.28KHz W5
1			

EGPRS 1900:

		EOI 1000.		
W.	Frequency	OBW(99%)	26dB BW	WSET
	1850.2	241.99KHz	312.50KHz	
WSET	1880	245.19KHz	W5 17302.88KHz W5	57 °
	1909.8	243.59KHz	318.91KHz	X

	W5CT	W5 CT	W5CT N	W5ET"	W5CT 1
d					

	WSET	W5	ET WS	CT°	WSET"	NS ET
--	------	----	-------	-----	-------	-------

AW5 C	W5CT	WSCT	WSCT	AWS CT

WSCT	WSCT	W5CT [®]	WSCT	WSET

WSCT	W5CT"	WSCT	WSCT	W5CT"
------	-------	------	------	-------

W5CT"	WSCT	WELT	WSCT	MECT

WSET WSET WSET

WSET WSET WSET

ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China.

TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http: www.wsct-cert.com

W5CT

ALCE DE LA CONTRACTOR D

Page 125 of 171

W5 CT

W5 ET

WS CT

World Standardization Certification & Testing Group (Shenzhen) Co.,ltd.

W5CT





W5 Report No.: WSCT-ANAB-R&E241100057A-RF5

WS CT

W5CT"

UTRA BANDS Band 2:

V	Frequency	OBW(99%)	26dB BW
	1852.4	4.167MHz	4.679MHz
_	1880	4.151MHz	4.700MHz
	1907.6	4.151MHz	4.679MHz

WSET Band 4:SET WSET

	Frequency	OBW(99%)	26dB BW	
	/ VP178	/ UFIZE /		
	1712.4	4.135MHz	4.663MHz	
	1732.6	4.151MHz	4.663MHz	
Z	1752.6 WS.C	4.151MHz	4.671MHz	

XBand 5:

_	Frequency	OBW(99%)	26dB BW	47 °
	826.4	4.167MHz	4.663MHz	X
7	836.4 W5.5	4.167MHz	4.712MHz	WSET
	846.6	4.151MHz	4.707MHz	/

WSCT WSCT WSCT WSCT WSCT

W5 CT	W5	S C T	YS ET	W5CT	W5CT [®]

WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT

ADD: Building A-B,Baoli'an Intustrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China.

NDD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Stueet, Bao'an District, Shenzhen City, Guangdong Province, China (EL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http: www.wsct-cert.com

Shenzhen City Guangdong Province, China. 深圳世标检测认证股份有限公司 World Standardization Certification& Testing Group (Shenzher

WEET

Page 126 of 171

WSET

WSCT WSCT









Page 127 of 171

WSET

WS CT WS CT

