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TEST REPORT

FCC ID: 2ADYY-B2

Product: Mobile Phone

Model No.: B2

Additional Model No.: N/A

Trade Mark: TECNO

Report No.: FCC18110006A-BT

Issued Date: Nov. 17, 2018

Issued for:

TECNO MOBILE LIMITED

ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG

Issued By:

World Standardization Certification & Testing Group Co., Ltd.

Building A-B, Baoshi Science & Technology Park, Baoshi Road

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1. GENERAL INFORMATION

	Please Contact with WSC
Product:	Mobile Phone www.wsct-cert.com
Model No.:	B2 Waster Waster
Additional Model:	N/A
Applicant:	TECNO MOBILE LIMITED
Address:	ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Manufacturer:	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
Address:	1/F-4/F,7/F, BUILDING 3, TAIPINGYANG INDUSTRIAL ZONE, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C
Data of receipt	Nov. 02, 2018
Date of Test:	Nov. 02, 2018 to Nov. 15, 2018
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247

The above equipment has been tested by World Standardization Certification & Testing Group Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Pushixi' Tested By: (Pu Shixi)

Date: 100.9,2018

Date: Nov . 19, 2018

ain Shuiguan Check By:

(Qin Shuiquan)

(Wang Fengbing)

Approved By:

Date: NoV

WSGT

Report No.:FCC18110006A-BT

& technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China 5/26996192 FAX:86-755-86376605 E-mail:Fenabing,Wang@wscl-cert.com Http://www.wscl-cert.com ADD:Building A-B Baoshi Science

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1.1 GENERAL DESCRIPTION OF EUT

1 GENERAL DES	CRIPTION OF EUT www.wsci-cer	T.C
Equipment Type:	Mobile Phone W557 W557	4
Test Model:	B2	
Additional Model:	N/A	
Trade Mark	TECNO	
Applicant:	TECNO MOBILE LIMITED	
Address:	ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG	7
Manufacturer:	SHENZHEN TECNO TECHNOLOGY CO.,LTD.	
Address:	1/F-4/F,7/F, BUILDING 3, TAIPINGYANG INDUSTRIAL ZONE, NO.2088, SHENYAN ROAD, YANTIAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C	
Hardware version:	V1.1	
Software version:	B2-F8017F-GO-180919V48 W5Z7 W5Z7	И
Extreme Temp. Tolerance:	-10℃ to +55℃	
Battery information:	Li-Polymer Battery: BL-30VT Voltage: 3.85V Rated Capacity: 3000mAh/11.55Wh Typical Capacity: 3050mAh/11.74Wh Limited Charge Voltage: 4.4V	
Adapter Information:	Adapter: A8-501000 Input: AC 100-240V 50/60Hz 200mA Output: DC 5V1.0A	7
Operating Frequency	2402-2480MHz	
Channels	79	
Channel Spacing	1MHz	
Modulation Type	GFSK, π /4-DQPSK, 8-DPSK	/
Version	3.0 W3L W3L	7
Antenna Type:	Integral Antenna	
Antenna gain:	-1.3dBi	



WSLI





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1.2 FACILITIES AND ACCREDITATIONS

All measurement facilities used to collect the measurement data are located at Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China of the World Standardization Certification & Testing Group Co., Ltd.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

Registration Number: 366353

1.2.1 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA
NVLAP (The certificate registration number is NVLAP LAB CODE:600142-0)

Japan
VCCI (The certificate registration number is C-4790, R-3684, G-837)

Canada INDUSTRY CANADA

(The certificated registration number is 7700A-1)

China CNAS (The certificated registration number is L3732)

Copies of granted accreditation certificates are available for downloading from our web site,

http://www.wsct-cert.com

1.2.2 TEST DESCRIPTION

1.2.2 1MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

7			
-	No.	Item	Uncertainty
	1	Conducted Emission Test	±3.2dB
	2	RF power,conducted	±0.16dB
	3	Spurious emissions,conducted	±0.21dB
(4	All emissions,radiated(<1G)	±4.7dB
	5	All emissions,radiated(>1G)	±4.7dB
_	6	Temperature	±0.5°C
	7	Humidity	±2%

WSC7





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1.3 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

	Modulation type	Mode	
j	1Mbps		
	2Mbps	Mode 1 · Mode 2 · Mode 3 · Mode 4	
	3Mbps	weer weer	

Pretest Mode	Description
Mode 1	WSET CH00WSET
Mode 2	CH39
Mode 3	CH78
Mode 4	Normal Hopping

For Conducted Emission					
Final Test Mode	Description				
Mode 4	Normal Hopping				

	V.				
For Radiated Emission					
	Final Test Mode	Description			
	Mode 1	CH00			
	Mode 2	CH39			
	Mode 3	CH78W5C1			
,	Mode 4	Normal Hopping			

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The data rate was set in 1Mbps,2 Mbps,3 Mbps for radiated emission due to the highest RF output power.
- (3) Record the worst case of each test item in this report.

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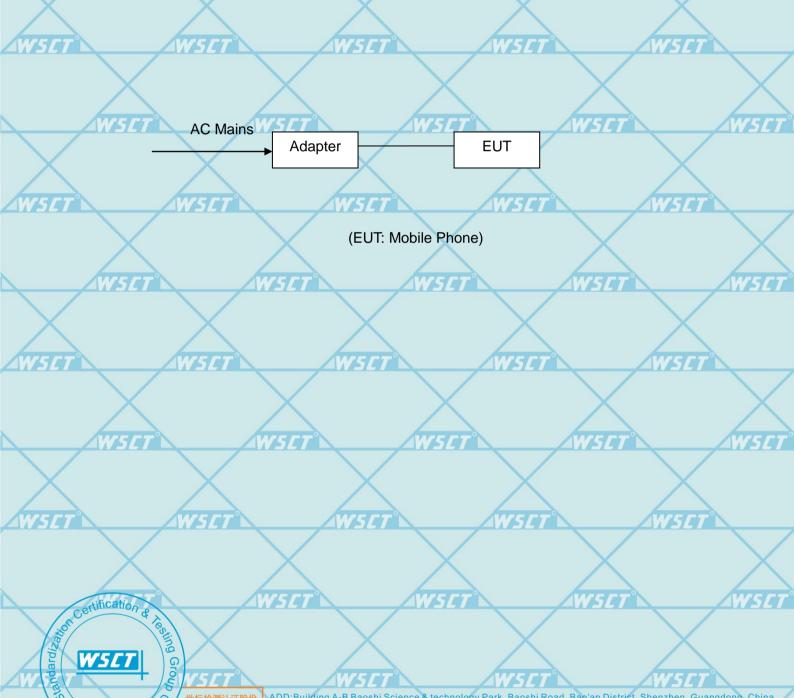
1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

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ection /	WSIT
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Test software Version		N/A	
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters(1Mbps)	DEF	DEF	DEF
Parameters(2Mbps)	DEF	DEF	DEF
Parameters(3Mbps)	DEF	DEF	DEF

1.4.1CONFIGURATION OF SYSTEM UNDER TEST



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1.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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The EUT has been tested as an independent unit together with other necessary accessories or was a support of the eutropean accessories or was a support of the eutropean accessories. support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Adapter	WSET	BL-30VT	1	WSET
2	Earphone	//	N/A	1/	1

Note: The support equipment was authorized by Declaration of Confirmation. (1) (2)For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column. "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core". (3)

(0)			10 io medito difornelaca		
WSET	WSET \	WSET	WSET	WSET	
		\times			X
	SET	WSET	WSET	W5ET	AWSET
WSET	WSET	WSET	WSET	WSET	
	57.57	WSLT	WSET	WSET	WSET
WSET	WSLT	WSET	X	X	
		WSLT	X	W5CT°	WSCI
WSET	WSLT	WSET	X	X	
		X	WSIT	X	WSG

Report No.:FCC18110006A-BT





2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

	FCC Part15 (15.247) , Subpart (
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	X
15.247(a)(1)	Hopping Channel Separation	PASS W	SET
15.247(b)(1)	Peak Output Power	PASS	\times
15.247(c)	Radiated Spurious Emission	PASS	W5/1
15.247(a)(iii)	Number of Hopping Frequency	PASS	
15.247(a)(iii)	Dwell Time	PASS	
15.247(a)(1)	Bandwidth	PASS	
15.247(d)	100kHz Band Edges	PASS	X
15.205 W 5 C 7	Band Edge Emission	PASS	W5E
15.203	Antenna Requirement	PASS	

NOTE:

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- (1)" N/A" denotes test is not applicable in this test report.
- (2)The manufacture declare the equipment comply with the all the technical requirements in 15.247(g). 15.247(h).

The equipment are not required to employ all available hopping channels during each transmission.it can be presented with a continuous data (or information) stream. the equipment can recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels.

VSET WSET WSET WSET

W-514

SET° WSE







3. MEASUREMENT INSTRUMENTS

	ZW3L/		AW5L		WSLI		
<u> </u>	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	
<u></u>	EMI Test Receiver	R&S	547ESCI	100005	08/19/2018	08/18/2019	
	LISN	AFJ	LS16	16010222119	08/19/2018	08/18/2019	X
	LISN(EUT)	Mestec	AN3016	04/10040	08/19/2018	08/18/2019	
/	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	08/19/2018	08/18/2019	L
	Coaxial cable	Megalon	LMR400	N/A	08/19/2018	08/18/2019	
7	GPIB cable	Megalon	GPIB	N/A	08/19/2018	08/18/2019	
<i>M</i>	Spectrum Analyzer	R&S	FSU	100114	08/19/2018	08/18/2019	
	Pre Amplifier	H.P.	HP8447E	2945A02715	10/13/2018	10/12/2019	X
	Pre-Amplifier	CDSI	PAP-1G18-38	7	10/13/2018	10/12/2019	5/
/	Bi-log Antenna	SUNOL Sciences	JB3	A021907	09/13/2018	09/12/2019	
	9*6*6 Anechoic		X		08/21/2018	08/20/2019	
7	Horn Antenna	COMPLIANCE ENGINEERING	5 CE18000	WSET	09/13/2018	09/12/2019	
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	08/23/2018	08/22/2019	
	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	04/25/2018	04/24/2019	
	System-Controller	vccs 7°	N/AW <i>51</i>	7 N/A	N.C.R	N.C.R	5L
/	Turn Table	ccs	N/A	N/A	N.C.R	N.C.R	
\	Antenna Tower	ccs	N/A	N/A	N.C.R	N.C.R	
7	RF cable W5	Murata W	MXHQ87WA3000	W.SET	08/21/2018	08/20/2019	
	Loop Antenna	EMCO	6502	00042960	08/22/2018	08/21/2019	×
	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	08/19/2018	08/18/2019	
	Power meter	Anritsu	ML2487A	6K00003613	08/23/2018	08/22/2019	5 <u>A</u>
	Power sensor	Anritsu	MX248XD		08/19/2018	08/18/2019	

WSET WSET

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Conducted	Conducted	
FREQUENCY (MITZ)	Quasi-peak	Quasi-peak	limit (dBµV)
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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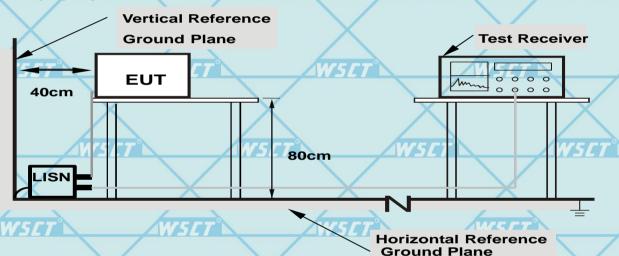
4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

No deviation

4.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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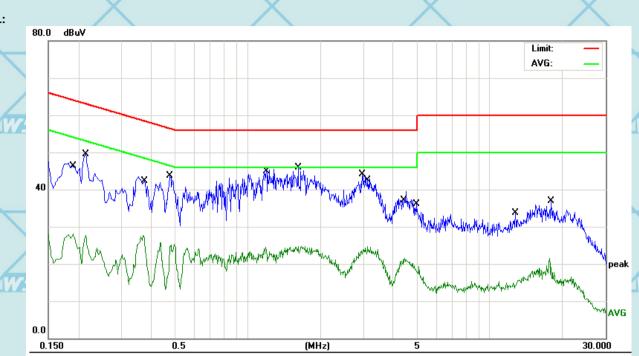




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4.1.6TEST RESULTS

				and an address of the
Temperature	26 ℃	Relative Humidity	54% www.ws	ct-cert.com
Pressure	1010hPa <i>W5ET</i> ° W5E	Voltage	120V/60Hz	W5L
Test Mode	Mode 4			



ET°				Reading	Correct	Measure-		_		_
	No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
/			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	
W	1		0.1900	17.59	10.45	28.04	54.03	-25.99	AVG	1
	2		0.2140	39.12	10.45	49.57	63.04	-13.47	QP	
	3		0.3700	17.16	10.49	27.65	48.50	-20.85	AVG	_
ET.	4		0.4780	33.12	10.51	43.63	56.37	-12.74	QP	-
	5		1.1860	13.89	10.58	24.47	46.00	-21.53	AVG	
W	6	*	1.6140	35.18	10.65	45.83	56.00	-10.17	QP	
	7		2.9739	33.32	10.72	44.04	56.00	-11.96	QP	
	8		3.1340	14.00	10.72	24.72	46.00	-21.28	AVG	
ET.	9		4.4540	10.75	10.73	21.48	46.00	-24.52	AVG	-
	10		5.0220	24.03	10.74	34.77	60.00	-25.23	QP	
	11		12.7180	22.66	11.03	33.69	60.00	-26.31	QP	
Certifica	12		17.6340	10.38	11.12	21.50	50.00	-28.50	AVG	
	Con	1								

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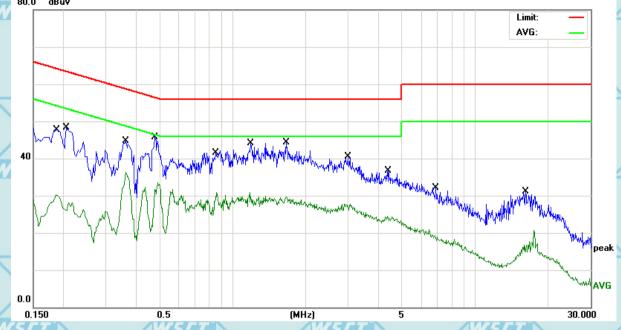






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1 0.1860 19.88 10.45 30.33 54.21 -23.88 AV 2 0.2060 37.86 10.45 48.31 63.36 -15.05 QP 3 0.3620 25.75 10.49 36.24 48.68 -12.44 AV 4 * 0.4780 35.18 10.51 45.69 56.37 -10.68 QP 5 0.8540 20.44 10.54 30.98 46.00 -15.02 AV 6 1.1860 33.44 10.58 44.02 56.00 -11.98 QP 7 1.6700 18.96 10.66 29.62 46.00 -16.38 AV 8 2.9900 29.80 10.72 40.52 56.00 -15.48 QP 9 4.3380 13.87 10.73 24.60 46.00 -21.40 AV 10 6.9140 21.40 10.77 32.17 60.00 -27.83 QP 11 16.0459 5.58 11.17 16.75 50.00 -33.25 AV						See A. A. Al				
1 0.1860 19.88 10.45 30.33 54.21 -23.88 AV 2 0.2060 37.86 10.45 48.31 63.36 -15.05 QP 3 0.3620 25.75 10.49 36.24 48.68 -12.44 AV 4 * 0.4780 35.18 10.51 45.69 56.37 -10.68 QP 5 0.8540 20.44 10.54 30.98 46.00 -15.02 AV 6 1.1860 33.44 10.58 44.02 56.00 -11.98 QP 7 1.6700 18.96 10.66 29.62 46.00 -16.38 AV 8 2.9900 29.80 10.72 40.52 56.00 -15.48 QP 9 4.3380 13.87 10.73 24.60 46.00 -21.40 AV 10 6.9140 21.40 10.77 32.17 60.00 -27.83 QP 11 16.0459 5.58 11.17 16.75 50.00 -33.25 AV		No.	Mk.	Freq.	_			Limit	Over	
2 0.2060 37.86 10.45 48.31 63.36 -15.05 QP 3 0.3620 25.75 10.49 36.24 48.68 -12.44 AV 4 * 0.4780 35.18 10.51 45.69 56.37 -10.68 QP 5 0.8540 20.44 10.54 30.98 46.00 -15.02 AV 6 1.1860 33.44 10.58 44.02 56.00 -11.98 QP 7 1.6700 18.96 10.66 29.62 46.00 -16.38 AV 8 2.9900 29.80 10.72 40.52 56.00 -15.48 QP 9 4.3380 13.87 10.73 24.60 46.00 -21.40 AV 10 6.9140 21.40 10.77 32.17 60.00 -27.83 QP 11 16.0459 5.58 11.17 16.75 50.00 -33.25 AV				MHz	dBuV	dB	dBuV	dBuV	dB	Detector
3 0.3620 25.75 10.49 36.24 48.68 -12.44 AV 4 * 0.4780 35.18 10.51 45.69 56.37 -10.68 QP 5 0.8540 20.44 10.54 30.98 46.00 -15.02 AV 6 1.1860 33.44 10.58 44.02 56.00 -11.98 QP 7 1.6700 18.96 10.66 29.62 46.00 -16.38 AV 8 2.9900 29.80 10.72 40.52 56.00 -15.48 QP 9 4.3380 13.87 10.73 24.60 46.00 -21.40 AV 10 6.9140 21.40 10.77 32.17 60.00 -27.83 QP 11 16.0459 5.58 11.17 16.75 50.00 -33.25 AV	1	1		0.1860	19.88	10.45	30.33	54.21	-23.88	AVG
4 * 0.4780 35.18 10.51 45.69 56.37 -10.68 QP 5 0.8540 20.44 10.54 30.98 46.00 -15.02 AV 6 1.1860 33.44 10.58 44.02 56.00 -11.98 QP 7 1.6700 18.96 10.66 29.62 46.00 -16.38 AV 8 2.9900 29.80 10.72 40.52 56.00 -15.48 QP 9 4.3380 13.87 10.73 24.60 46.00 -21.40 AV 10 6.9140 21.40 10.77 32.17 60.00 -27.83 QP 11 16.0459 5.58 11.17 16.75 50.00 -33.25 AV		2		0.2060	37.86	10.45	48.31	63.36	-15.05	QP
5 0.8540 20.44 10.54 30.98 46.00 -15.02 AV 6 1.1860 33.44 10.58 44.02 56.00 -11.98 QP 7 1.6700 18.96 10.66 29.62 46.00 -16.38 AV 8 2.9900 29.80 10.72 40.52 56.00 -15.48 QP 9 4.3380 13.87 10.73 24.60 46.00 -21.40 AV 10 6.9140 21.40 10.77 32.17 60.00 -27.83 QP 11 16.0459 5.58 11.17 16.75 50.00 -33.25 AV	W	3		0.3620	25.75	10.49	36.24	48.68	-12.44	AVG
6 1.1860 33.44 10.58 44.02 56.00 -11.98 QP 7 1.6700 18.96 10.66 29.62 46.00 -16.38 AV 8 2.9900 29.80 10.72 40.52 56.00 -15.48 QP 9 4.3380 13.87 10.73 24.60 46.00 -21.40 AV 10 6.9140 21.40 10.77 32.17 60.00 -27.83 QP 11 16.0459 5.58 11.17 16.75 50.00 -33.25 AV		4	*	0.4780	35.18	10.51	45.69	56.37	-10.68	QP
7 1.6700 18.96 10.66 29.62 46.00 -16.38 AV 8 2.9900 29.80 10.72 40.52 56.00 -15.48 QP 9 4.3380 13.87 10.73 24.60 46.00 -21.40 AV 10 6.9140 21.40 10.77 32.17 60.00 -27.83 QP 11 16.0459 5.58 11.17 16.75 50.00 -33.25 AV		5		0.8540	20.44	10.54	30.98	46.00	-15.02	AVG
8 2.9900 29.80 10.72 40.52 56.00 -15.48 QP 9 4.3380 13.87 10.73 24.60 46.00 -21.40 AV 10 6.9140 21.40 10.77 32.17 60.00 -27.83 QP 11 16.0459 5.58 11.17 16.75 50.00 -33.25 AV	_	6		1.1860	33.44	10.58	44.02	56.00	-11.98	QP
9 4.3380 13.87 10.73 24.60 46.00 -21.40 AV 10 6.9140 21.40 10.77 32.17 60.00 -27.83 QP 11 16.0459 5.58 11.17 16.75 50.00 -33.25 AV		7		1.6700	18.96	10.66	29.62	46.00	-16.38	AVG
10 6.9140 21.40 10.77 32.17 60.00 -27.83 QP 11 16.0459 5.58 11.17 16.75 50.00 -33.25 AV	4	8		2.9900	29.80	10.72	40.52	56.00	-15.48	QP
11 16.0459 5.58 11.17 16.75 50.00 -33.25 AV		9		4.3380	13.87	10.73	24.60	46.00	-21.40	AVG
<u></u>		10		6.9140	21.40	10.77	32.17	60.00	-27.83	QP
12 16.2180 19.95 11.16 31.11 60.00 -28.89 QP	_	11		16.0459	5.58	11.17	16.75	50.00	-33.25	AVG
		12		16.2180	19.95	11.16	31.11	60.00	-28.89	QP

Note: 1.All the modes have been investigated, and only worst mode is presented in this report.

ertifice2. Over=Reading Level+ Correct Factor - Limit.



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4.2 RADIATED EMISSION MEASUREMENT

4.2.1Radiated Emission Limits (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	W51 200	W5LT 3 W.
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

EDEOLIENCY (MH-)	Limit (dBuV/m) (at 3M)			
FREQUENCY (MHz)	PEAK	AVERAGE		
Above 1000	W5C74	W5 [T 54		

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1Hz for Average
band)	

Receiver Parameter	Setting
Attenuation	VSET WSAuto WSET
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP



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4.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz.

 For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

and perio	ormea pretest to three	ortnogonal axis. The wo	rst case emissions were	reported	X
4.2.3 DEVIA No deviation	TION FROM TEST ST		W5		WSET
W5ET	WSET	WSET	WSET	WSET	
WSET	WSE	$\langle \ \rangle$	WS	77	WSET
WSET	WSET	WSET	WSET	WSET	
WSLT	W5E	7 W5L	WS	FT .	WSET
WSET	WSET	WSET	WSET	WSET	
\times	\sim	$\langle \ \rangle$			WSET
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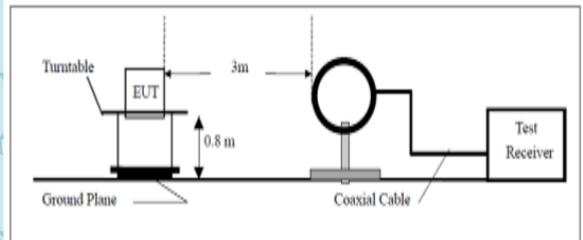




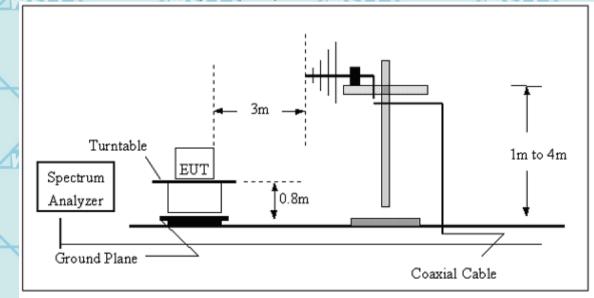
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4.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

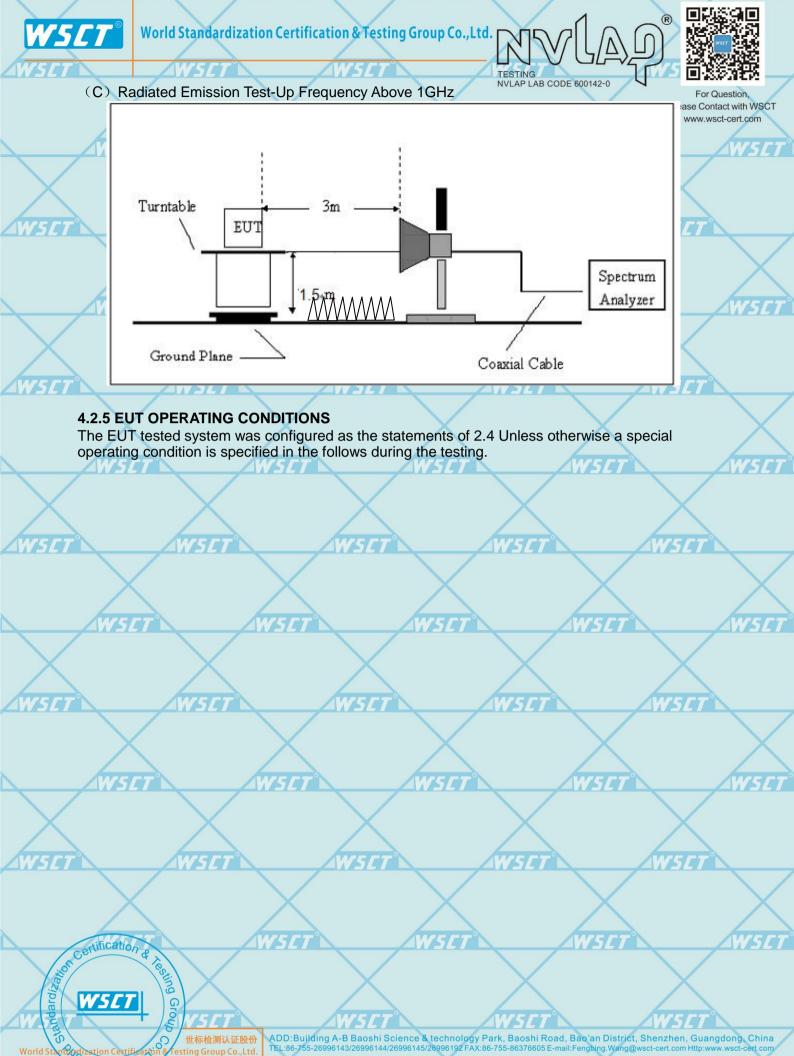


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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4.2.5.1 RESULTS (Below 30 MHz)

Test Mode	Mode 1/ Mode 2/ Mode 3	Polarization	Horizontal / Vertical
Temperature	20 ℃	Relative Humidity	48%
Pressure	1010 hPa		X

_	Freq.	Reading	Limit	Margin	State	
	(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	
	/	/		/	Р	
1	WSET"	W5ET	WSET	/W5	7° P	V5

NOTE:

No result in this part for margin above 20dB.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

	WSET	W5ET [°]	W	SET	WSET	WSET	
WSG		SET	WSET	WSEI		SET	
	WSET	WSET		SET	WSET	WSET	
Wister		557	WSET	WSET		/SET	
	WSET	WSET		<i>'5LT</i>	WSET	WSCI	
WSI		5.57	WSET	WSET		/SET	
	X	WSET		SET	WSET	WSCI	
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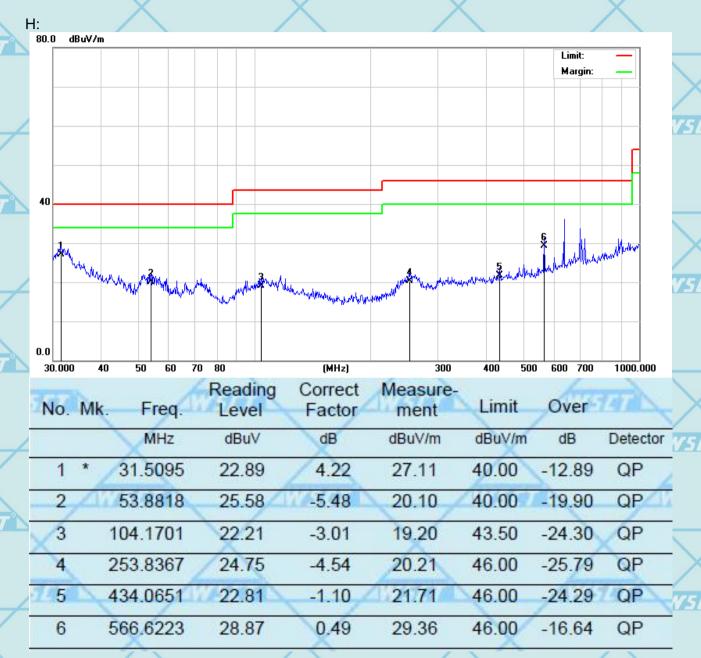






4.2.5.2 TEST RESULTS (Between 30M - 1000 MHz)

Test Mode	Mode 1 with GFSK modulation	Pressure	1010 hPa	72
Temperature	20 ℃	Relative Humidity	48%	



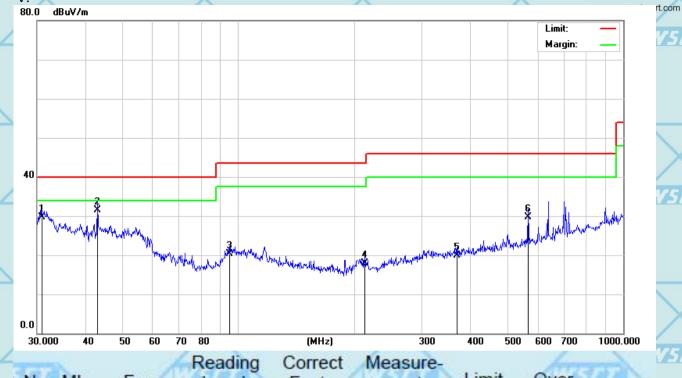
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	No.	Mk.	Freq.	Level	Factor	ment	Limit	Over	4
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	_	30.8535	25.17	4.47	29.64	40.00	-10.36	QP
	2	*	43.0505	32.70	-1.27	31.43	40.00	-8.57	QP
_	3		94.7601	25.29	-4.92	20.37	43.50	-23.13	QP
	4		213.0151	24.32	-6.41	17.91	43.50	-25.59	QP
	1 5	4	370.7023	21.12	-1.30	19.82	46.00	-26.18	QP
	6	,	566.6223	28.47	1.15	29.62	46.00	-16.38	QP

Note: 1.All the modes have been investigated, and only worst mode is presented in this report.

2.Over=Reading Level+ Correct Factor - Limit.

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4.2.5.3 TEST RESULTS(1GHz to 25GHz)

Pressure	1010 hPa	WSU	Test Mode	Mode 1 TX(1Mbps)
Temperature	20 ℃	\times	Relative Humidity	48%

	Freq.	Ant.Pol.	Emission		Limit 577		Over(dB)	
	(MHz)		Level(dBuV)	3m(dBu\	V/m)		
	\times	H/V	PK	AV	PK	AV	PK	AV
	4804	V	59.44	40.26	74	54	-14.56	-13.74
A	7206	V	59.39	40.96	74	54	-14.61	-13.04
4	4804	1	59.48	40.20	74	54	-14.52	-13.80
	7206	Æ	58.25	39.25	74	54	-15.75	-14.75

Remark: All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Pressure	1010 hPa W5LT	Test Mode	Mode 2 TX(2Mbps)
Temperature	20 ℃	Relative Humidity	48%

Freq.	Ant.Pol.	Emission Level(dBuV)		Limit		Over(dB)	
(MHz)		SET N	SET W.		3m(dBuV/m)		
	H/V	PK	AV	PK	AV	PK	AV
4882	X V	59.21	41.71	74	54	-14.79	-12.29
7323	>	58.46	39.05	74	54	-15.54	-14.95
4882	57:H	58.70	40.05	74	√ 547°	-15.30	-13.95
7323	Н	59.58	40.58	74	54	-14.42	-13.42

Remark: All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Pressure	1010 hPa	Test Mode	Mode 3 TX(3Mbps)	
Temperature	20 ℃	Relative Humidity	48%	ú

Freq.	Ant.Pol.	Emission I	_evel(dBuV)	Lir	nit	Ove	r(dB)
(MHz)		h-		3m(dB	suV/m)		
M	H/V	PK	AV	PK	AV	PK	AV
4960	V	58.72	41.95	74	54	-15.28	-12.05
7440	V	58.67	40.99	74	54	-15.33	-13.01
4960	H	59.41	39.18	74	54	-14.59	-14.82
7440	H	59.93	40.93	74	54	-14.07	-13.07

Remark: All emissions not reported were more than 20dB below the specified limit or in the noise floor.

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4.2.5.4 TEST RESULTS (Restricted Bands Requirements)

Test result for 1Mbps Mode:

Polarization	Vertical	Test Mode	TX /Mode1-1Mbps(CH0)
Temperature	20 ℃	Relative Humidit	ty 48%
Pressure	1010 hPa W5	ET N	WSET

	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
4	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
	2387	61.04	-8.76	52.28	74	21.72	peak
	2387	56.41	-8.76	47.65	54	6.35	AVG
	2390 W.S	60.63	-8.73	51.90	W 74 7	22.10	peak
	2390	57.29	-8.73	48.56	54	5.44	AVG

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Polarization	Horizontal	Test Mode	TX /Mode1-1Mbps(CH0)
Temperature	20 ℃	Relative Humidity	48%
Pressure	1010 hPa		Wister

Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
62.36	-8.76	53.60	74	20.40	peak
56.21	-8.76	47.45	54	6.55	AVG
63.89	-8.73	55.16	74	18.84	peak
57.19	-8.73	48.46	54	5.54	AVG
	Reading (dBµV) 62.36 56.21 63.89	Reading Factor (dBμV) (dB) 62.36 -8.76 56.21 -8.76 63.89 -8.73	Reading Factor Level (dBμV) (dB) (dBμV/m) 62.36 -8.76 53.60 56.21 -8.76 47.45 63.89 -8.73 55.16	Reading Factor Level Limits (dBμV) (dB) (dBμV/m) (dBμV/m) 62.36 -8.76 53.60 74 56.21 -8.76 47.45 54 63.89 -8.73 55.16 74	Reading Factor Level Limits Margin (dBμV) (dB) (dBμV/m) (dBμV/m) (dB) 62.36 -8.76 53.60 74 20.40 56.21 -8.76 47.45 54 6.55 63.89 -8.73 55.16 74 18.84

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

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For Question

	Polarization	Vertical	Test Mode	TX /Mode 3-1Mbps (CH78ect with WSCT
	Temperature	20 ℃		48%
_	Pressure	1010 hPa		W/5141 / 1/5141

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.5	61.12	-8.17	52.95	74	21.05	peak
2483.5	54.92	-8.17	46.75	54	7.25	AVG

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Polarization	Horizontal W5	Test Mode	TX /Mode 3-1Mbps(CH78)
Temperature	20 ℃	Relative Humidity	48%
Pressure	1010 hPa		X

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
2483.5	/5 63.15	-8.17//5	54.98	745 []	19.02	W peak °
2483.5	53.19	-8.17	45.02	54	8.98	AVG

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

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Test result for 2Mbps Mode:

Polarization	Vertical	Test Mode	TX /Mode1-2Mbps(CH0)
Temperature	20 ℃	Relative Humidity	48%
Pressure	1010 hPa		×

	AWS	Meter	WSLI	Emission	AWSET N		VSET .
	Frequency	Reading	Factor	Level	Limits	Margin	Detector
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4	2387	64.81	-8.76	56.05	74	17.95	peak
	2387	54.66	-8.76	45.90	54	8.10	AVG
	2390	61.28	-8.73	52.55	74	21.45	peak
	2390	56.87	-8.73	48.14	54	5.86	AVG

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Polarization	Horizontal	Test Mode	TX /Mode1-2Mbps(CH0)
Temperature	20 ℃	Relative Humidity	48%
Pressure	1010 hPa		X

	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type	
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		/
_	2384	62.51 W	5 C -8.76	53.75 5 4	74	20.25	peak	9
	2384	56.06	-8.76	47.30	54	6.70	AVG	
	2390	61.10	-8.73	52.37	74	21.63	peak	
\	2390	55.04	-8.73	46.31	54 5	7.69	AVG	

Remark:

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Factor = Antenna Factor + Cable Loss - Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

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	Polarization	Vertical	Test Mode	TX /Mode3-2Mbps (CPE) Right With WSCT
	Temperature	20 ℃		48%
4	Pressure	1010 hPa		W514 17514

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.5	61.08	-8.17	52.91	74	21.09	peak
2483.5	53.41	-8.17	45.24	54	8.76	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Polarization	Horizontal W507	Test Mode	TX /Mode3-2Mbps(CH78)
Temperature	20 ℃	Relative Humidity	48%
Pressure	1010 hPa		X

4	W 5//			W 5/		TAW S / / N	
	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
	2483.5	5 61.88	-8.17//5	53.71	745.77	20.29	peak
	2483.5	54.88	-8.17	46.71	54	7.29	AVG

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

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Test result for 3Mbps Mode:

			Please Contact with WSC
Polarization	Vertical	Test Mode	TX /Model 1-3Mbps(GHQ)-cert.com
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa		

Freque	ncy	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz	<u>z</u>)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2387	7	64.52	-8.76	55.76	74	18.24	peak
2387	7	53.93	-8.76	45.17	54	8.83	AVG
2390)	61.40	-8.73	52.67	74	21.33	peak
2390)	57.92	-8.73	49.19	54	4.81	AVG

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

	Polarization	Horizontal	Test Mode	TX /Mode 1-3Mbps(CH0)
/	Temperature	20 °CW5ET	Relative Humidity	48% 5 7
	Pressure	1010 hPa		

Frequency	Meter Reading	Factor/5	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2384	62.06	-8.76	53.30	74	20.70	peak
2384	56.16 W	-8.76	47.405	54	6.60	AVG
2390	61.31	-8.73	52.58	74	21.42	peak
2390	55.02	-8.73	46.29	54	7.71	AVG
	(MHz) 2384 2384 2390	Reading (MHz) (dBµV) 2384 62.06 2384 56.16 2390 61.31	Frequency Reading Factor (MHz) (dBμV) (dB) 2384 62.06 -8.76 2384 56.16 -8.76 2390 61.31 -8.73	Frequency Reading Factor Level (MHz) (dBμV) (dB) (dBμV/m) 2384 62.06 -8.76 53.30 2384 56.16 -8.76 47.40 2390 61.31 -8.73 52.58	Frequency Reading Factor Level Limits (MHz) (dBμV) (dB) (dBμV/m) (dBμV/m) 2384 62.06 -8.76 53.30 74 2384 56.16 -8.76 47.40 54 2390 61.31 -8.73 52.58 74	Frequency Reading Factor Level Limits Margin (MHz) (dBμV) (dB) (dBμV/m) (dBμV/m) (dB) 2384 62.06 -8.76 53.30 74 20.70 2384 56.16 -8.76 47.40 54 6.60 2390 61.31 -8.73 52.58 74 21.42

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Factor = Antenna Factor + Cable Loss - Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

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Polarization	Vertical	Test Mode	TX /Model 3-3Mbps(CH78)
Temperature	20 ℃	Relative Humidity	48%
Pressure	1010 hPa		

Frequency	/5 Meter	Factor	Emission	Limits	Margin	WSET
Trequency	Reading	1 dotor	Level	Limito	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	,,
2483.5	62.45	-8.17	54.28	74	19.72	peak
2483.5	54.09	-8.17	45.92	54	8.08	AVG

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

	Polarization	Horizontal	Test Mode	TX /Model 3-3Mbps(CH78)
	Temperature	20 ℃	Relative Humidity	48%
/	Pressure	1010 hPa		WSET

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	WSET
2483.5	60.70	-8.17	52.53	74	21.47	peak
2483.5	53.25	-8.17	45.08	54	8.92	AVG

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

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Test result for hopping mode:

				www.wsci-cei
	Polarization	Vertical	Test Mode	hopping mode-1Mbps
1	Temperature	20 °C	Relative Humidity	48%
	Pressure	1010 hPa		

Frequen	Meter Meter	Factor 5	Emission	Limits	Margin	WSCT.
Troqueit	Reading	Tactor	Level	Limito	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2387	60.96	-8.76	52.20	74	21.80	peak
2387	56.39	-8.76	47.63	54	6.37	AVG
2390	63.07	-8.73	54.34	74	19.66	peak
2390	56.34	-8.73	47.61	54	6.39	AVG

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

	Polarization	Horizontal	Test Mode	Hopping mode-1Mbps
/	Temperature	20 °CW5ET°	Relative Humidity	48% <i>5 [T</i> °]
	Pressure	1010 hPa		

	Frequency	Meter Reading	Factor 5	Emission Level	Limits	Margin	Detector
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
	2387	63.09	-8.76	54.33	74	19.67	peak
1	2387	53.08	-8.76	44.325	54	9.68	AVG
	2390	62.82	-8.73	54.09	74	19.91	peak
	2390	57.14	-8.73	48.41	54	5.59	AVG

Remark

Certification &

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

WSET WSET WSET WSET

WSET WSET WSET

WSLT WSLT WSLT

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Report No.:FCC18110006A-BT

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For Question,

 Polarization
 Vertical
 Test Mode
 Hopping mode-1Mbps Contact with WSCT

 Temperature
 20 °C
 Relative Humidity
 48%

Pressure 1010 hPa

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	WSELVE
2483.5	62.50	-8.17	54.33	74	19.67	peak
2483.5	54.88	-8.17	46.71	54	7.29	AVG

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

Polarization	Horizontal	Test Mode	Hopping mode-1Mbps
Temperature	20 ℃	Relative Humidity	48%
Pressure	1010 hPa		

Meter Emission Frequency Factor Limits Margin Reading Level **Detector Type** (MHz) (dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 74 2483.5 62.51 -8.17 54.34 19.66 peak 2483.5 -8.17 8.37 53.80 45.63 54 **AVG**

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

WSET WSET WSET WSET

WSET WSET WSET WSET

WSET WSET WSET

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5. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C						
Section Test Item Limit Frequency Range Result						
			(MHz)			
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS		

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	1MHz
VB	3MHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 1MHz, VBW=3MHz, Sweep time = Auto.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



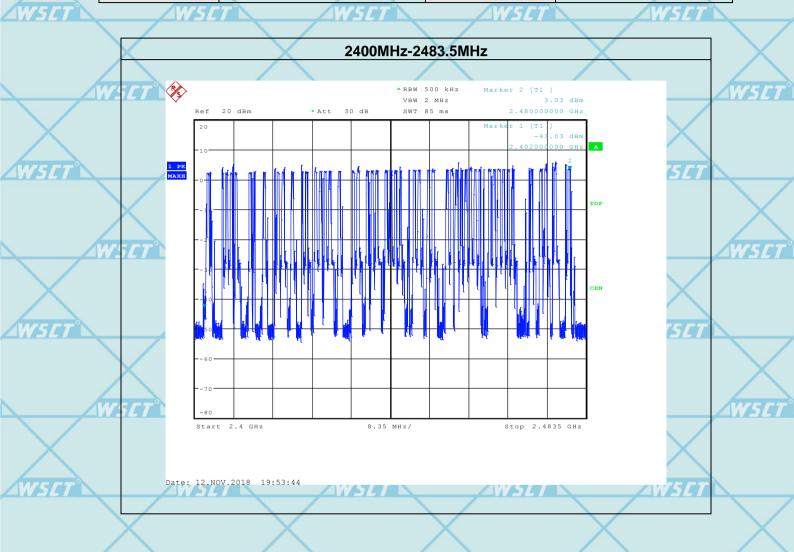
TESTING
NVLAP LAB CODE 600142-0



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5.2 TEST RESULTS

_	Number of	79 W5ET	Test Mode	Hopping Mode
	Hopping Channel		TEST MODE	riopping wode
	Temperature	25 ℃	Relative Humidity	60%
	Pressure	1015 hPa		



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6. AVERAGE TIME OF OCCUPANCY

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C						
Section Test Item		Limit	Frequency Range (MHz)	Result		
15.247	Average Time	N54	2400 2402 5	DACC		
(a)(1)(iii)	of Occupancy	0.4sec	2400-2483.5	PASS		

5.1.2 TEST PROCEDURE

- a. The EUT test port was connected to the spectrum analyzer with RF cable and antenna connector.
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for 1DH5, 2DH5 and 3DH5 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. Dwell time = Pulse time*(1600/6/79)*31.6S

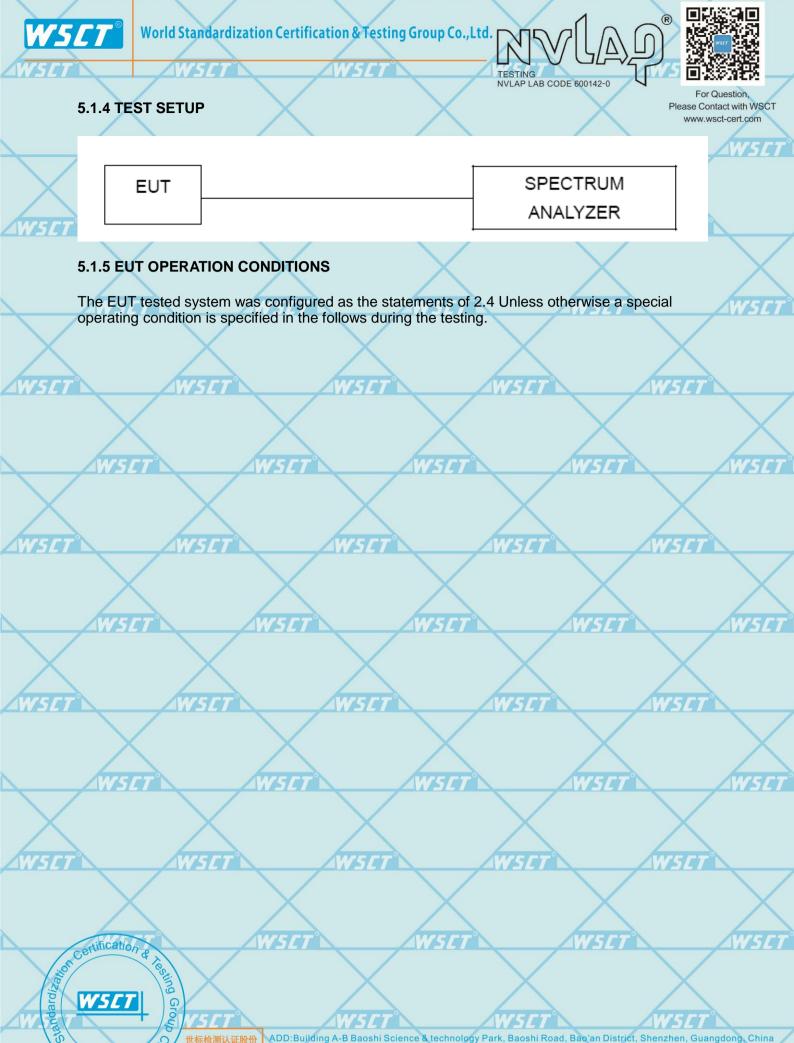
5.1.3 DE	VIATION FROM STAN	IDARD	X	X	X
No devia	tion.	SET W	SET	WSET	WSET
X	\times		X	\times	
WSET	WSET	WSET	WSET	WSE	
\rightarrow		\times	X	X	\times
W5	W	SET W	SET .	W5ET*	WSET

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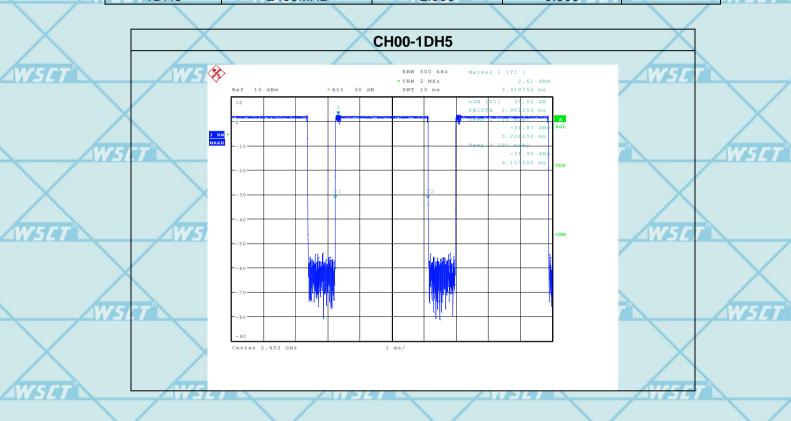
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5.2 TEST RESULTS

Note: the worst case is 1Mbps as result in this part.

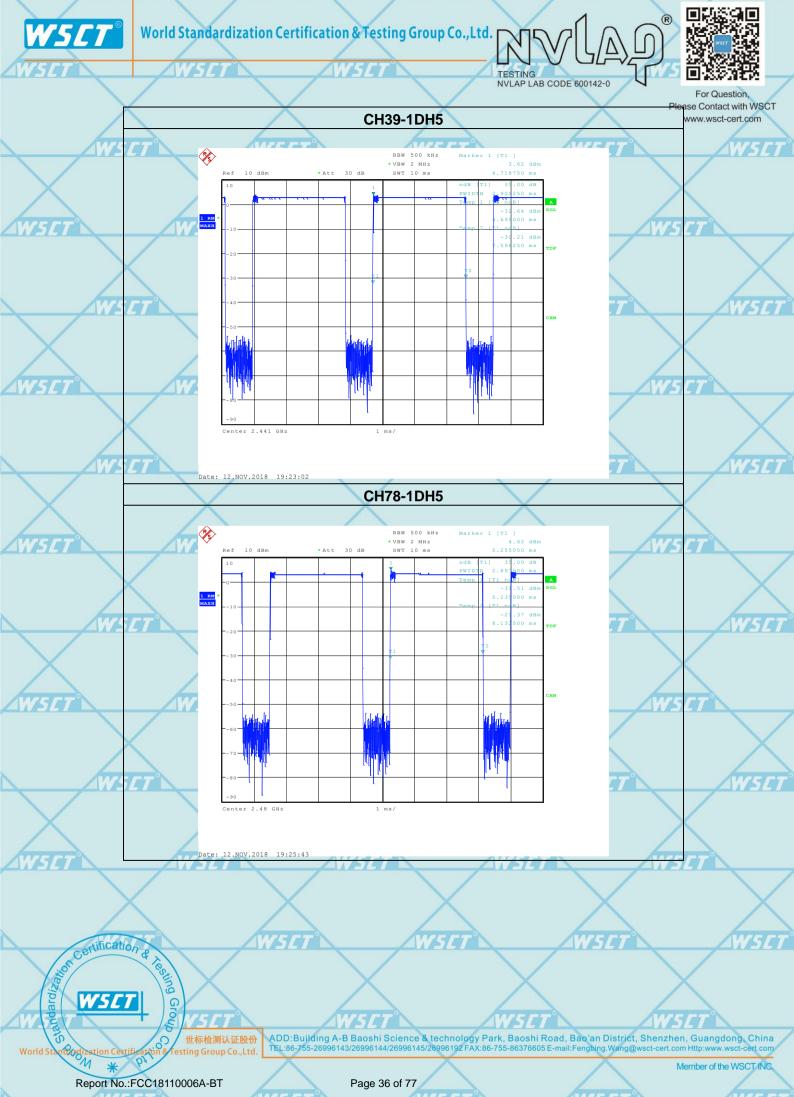
Pressure	1012 hPa	Test Mode	DH1-1Mbps	
Temperature	25 ℃	Relative Humidity	60%	X

	Data Packet	Frequency 152	Pulse time(ms)	Dwell Time(S)	Limits (S)
	1DH5	2402MHz	2.901	0.309	0.4
7	1DH5	2441MHz	2.901	0.309	0.4
	75 C 71 DH5	2480MHz	2.900	0.309/5/7	0.4





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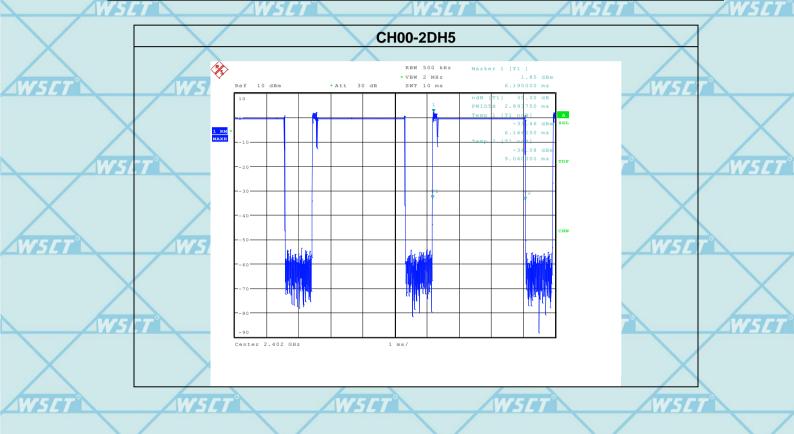
TESTING NVLAP LAB CODE 600142-0

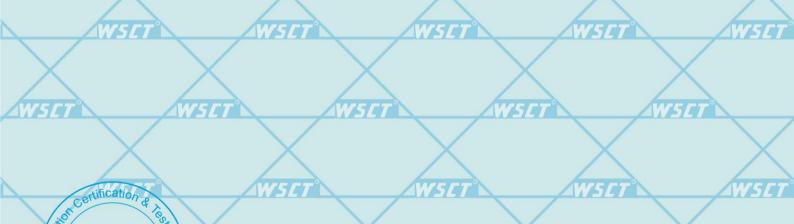


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Pressure	1012 hPa	Test Mode	DH3-1Mbps	7
Temperature	25 ℃	Relative Humidity	60%	

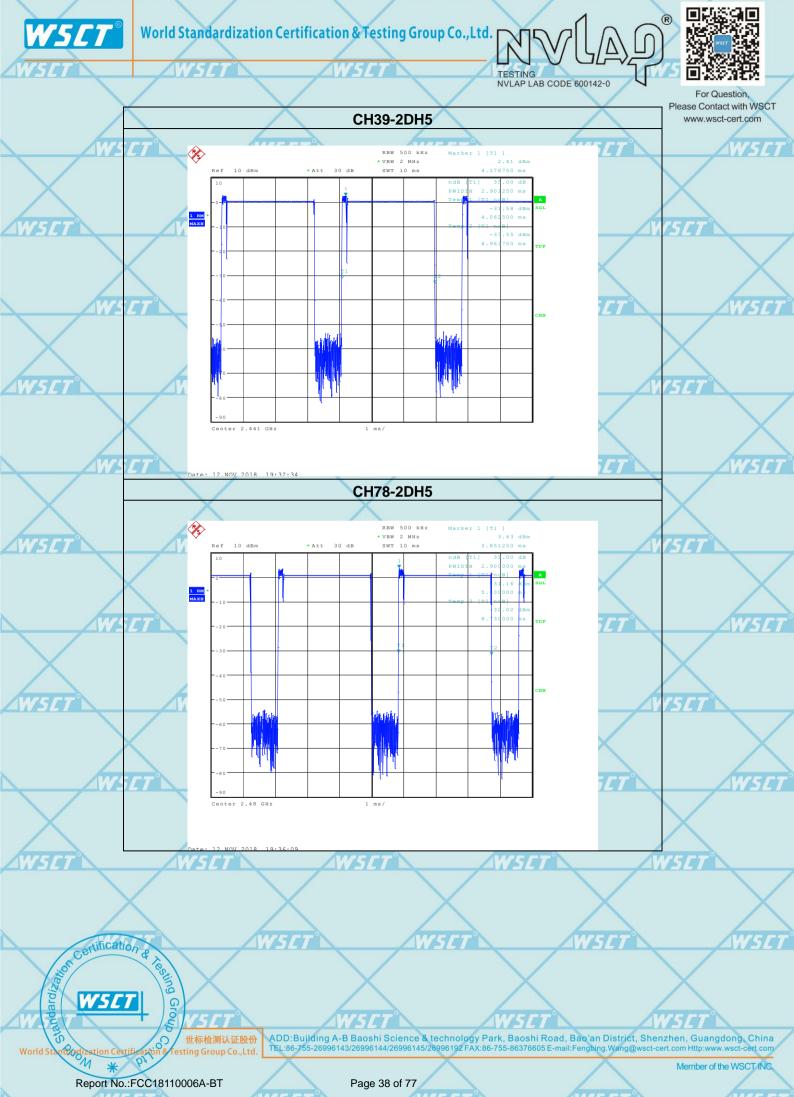
Data Packet	Frequency	Pulse time(ms)	Dwell Time(S)	Limits (S)
2DH5	2402MHz	2.894	0.309	0.4
2DH5	2441MHz	2.901	0.309	0.4
2DH5	2480MHz	2.900	0.309	0.4





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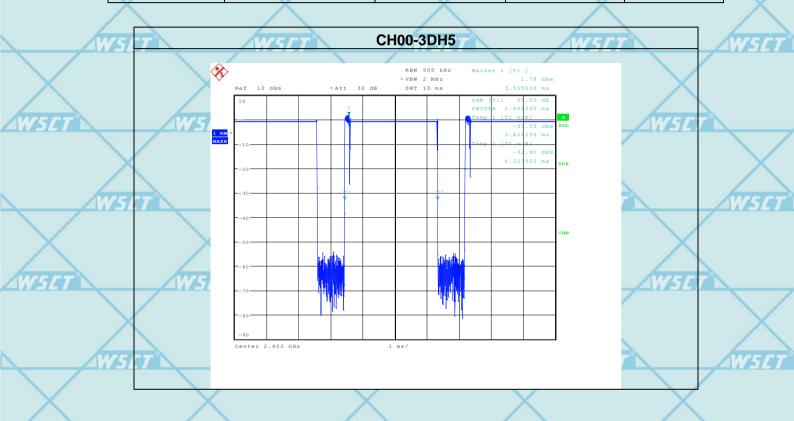


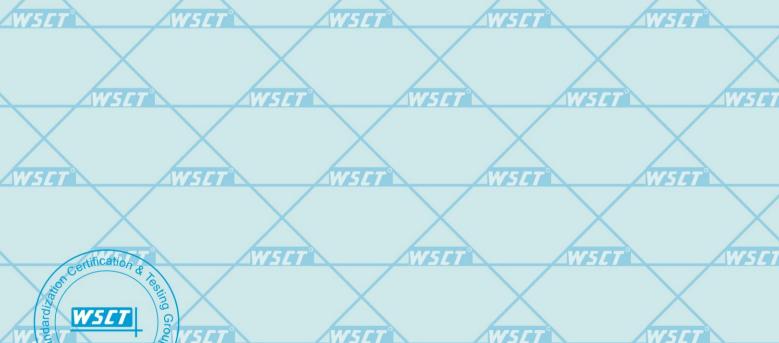




				For Question,
Pressure	1012 hPa	Test Mode	DH5-1Mbps	Please Contact with WSCT
Temperature	25℃	Relative Humidity	60%	

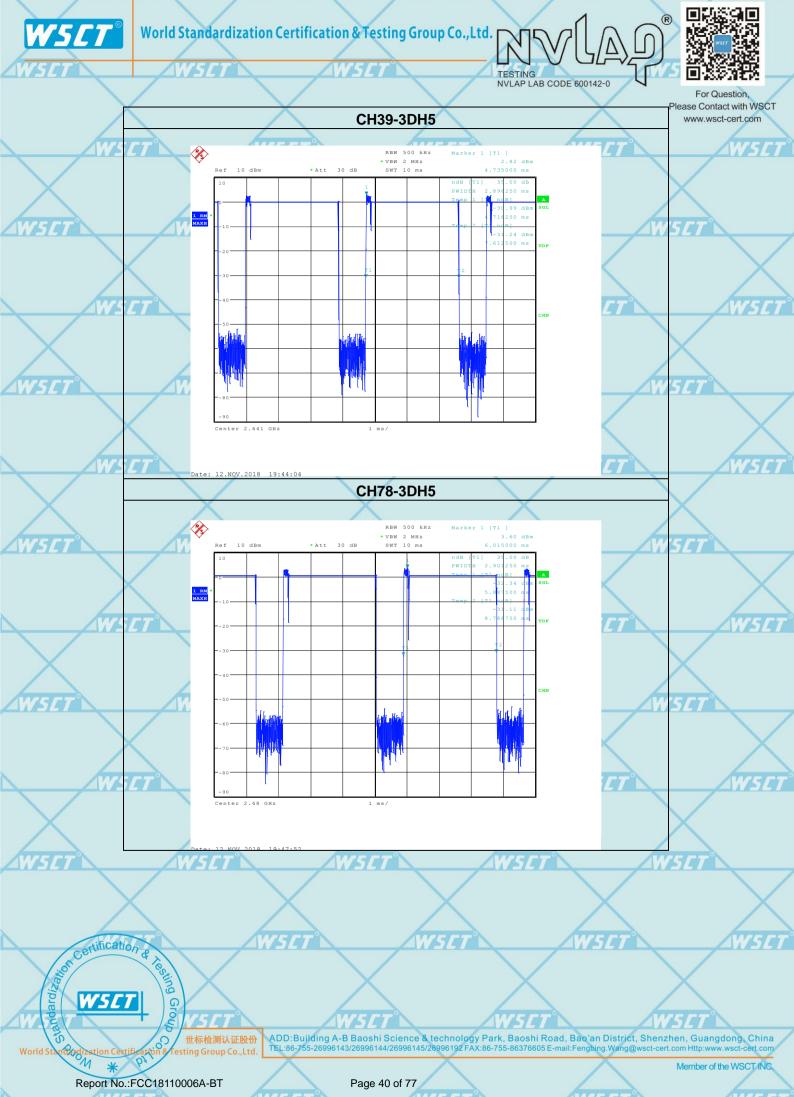
Data Packet	Frequency	Pulse time(ms)	Dwell Time(S)	Limits (S)
3DH5	2402MHz	2.901	0.309	0.4
3DH5/5/	2441MHz W 5 /	7° 2.896	5 550.309	0.4
3DH5	2480MHz	2.901	0.309	0.4





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esting Group Co.,Ltd.







6. HOPPING CHANNEL SEPARATION MEASUREMENT

6.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting		
Attenuation	Auto		
Span Frequency	> Measurement Bandwidth or Channel Separation		
RB	Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span		
WSC/ VB	Video (or Average) Bandwidth (VBW) ≥ RBW		
Detector	Peak		
Trace	Max hold		
Sweep Time	W5ET Auto5ET W5ET		

6.1.2 TEST PROCEDURE

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Set the spectrum analyzer as follows: Span = wide enough to capture the peaks of two adjacent channels: Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span; Video (or Average) Bandwidth (VBW) ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold
- 3. Measure the separation between the peaks of the adjacent channels using the marker-delta function.
- 4. Repeat above procedures until all frequencies measured were complete.

6.1.3 DEVIATION FROM STANDARD

No deviation.

6.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.1.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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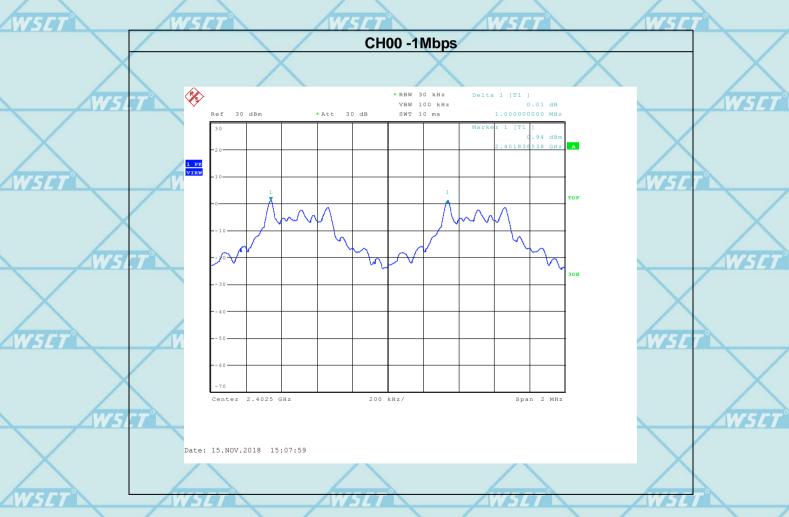
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6.2 TEST RESULTS

	1 20 11200210			www.wsct-ce	ert com
	Pressure	1012 hPa	Test Mode	CH00 / CH39 /CH78	STL.GOITI
4	1 1633016	1012111 a	Test Wode	(1Mbps Mode)	N5L
	Temperature	25 ℃	Relative Humidity	60%	
	Test Result	Pass		X	

	Channel number	Channel frequency	Separation Read value	Separation limit
		(MHz)	(KHz)	(KHz)
	00	2402	1000	20dB BW
2	W5[T 39	2441	1000	20dB BW
	78	2480	1000	20dB BW

Note: 20db bandwidth refer to section9.6



AWSET 1

4WSET

W5E7

AWSEI



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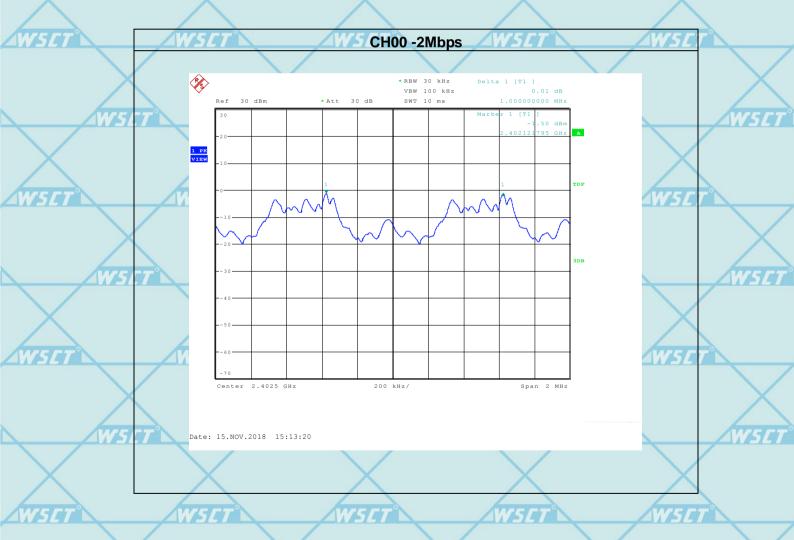


For Question.

	Pressure	1012 hPa	Test Mode	CH00 / CH39 /CH ¹ / ₈ se Contact with WSCT (2Mbps Mode)
_	Temperature	25°C W 5 [T °]	Relative Humidity	60%/ <i>5ET</i> ° A <i>NSET</i>
	Test Result	Pass		

Channel number	Channel frequency	Separation Read value	Separation limit
	(MHz)	(KHz)	(KHz)
00	2402	1000	2/3 *20dB BW
39	2441	1003	2/3 *20dB BW
W31 78	2480	1000	2/3 *20dB BW

Note: 20db bandwidth refer to section 9.6

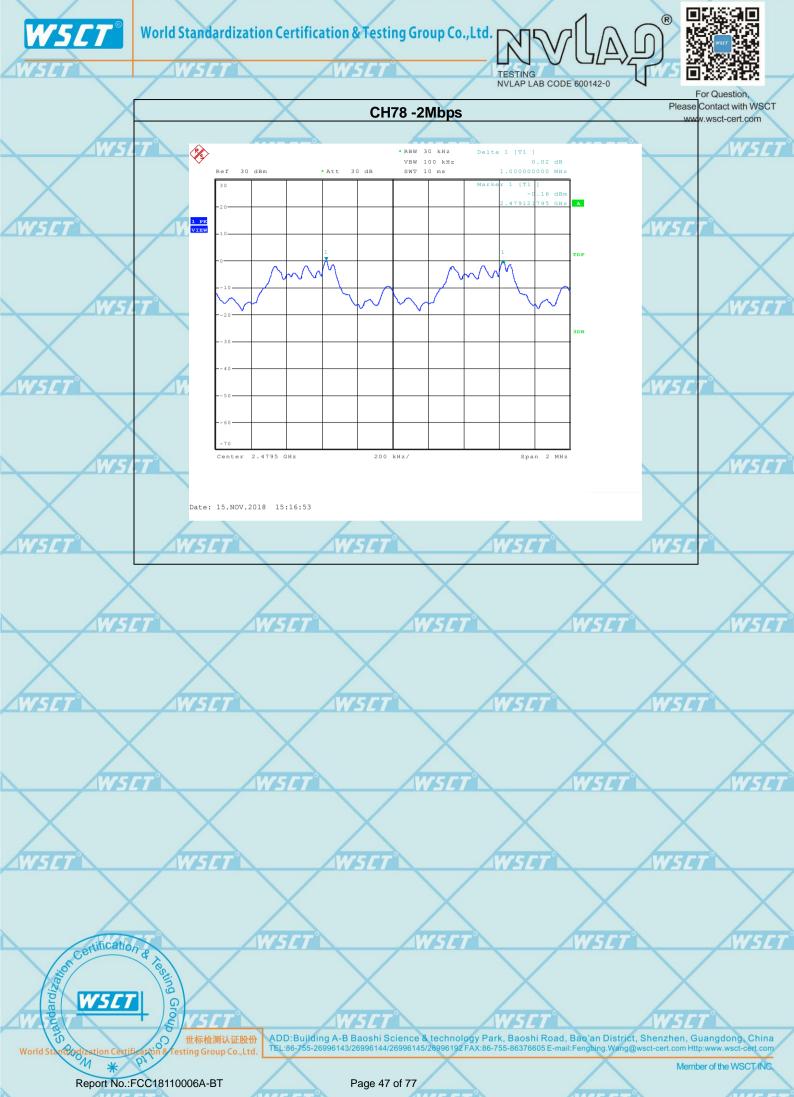


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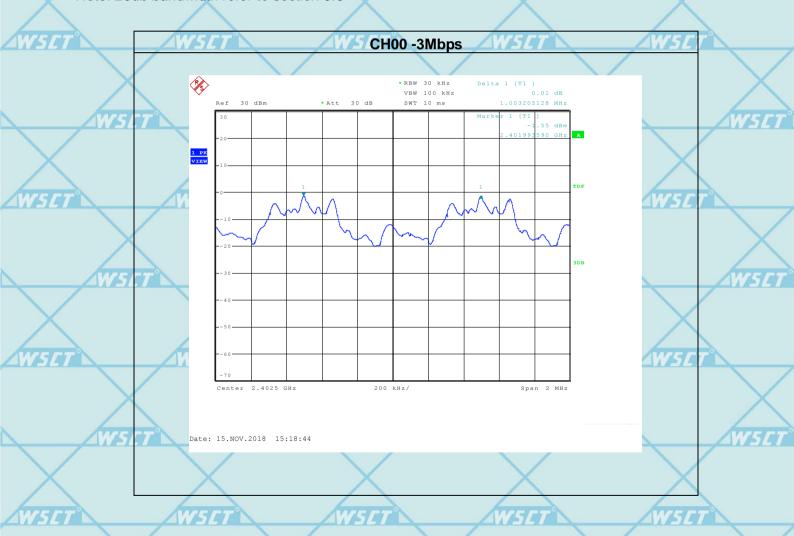


For Question

	Pressure	1012 hPa	Test Mode	CH00 / CH39 /CH78 Contact with WSCT (3Mbps Mode)
_	Temperature	25°C W 5 € T	Relative Humidity	60% 5 L T N S L T
	Test Result	Pass		

-	Channel number	Channel frequency	Separation Read value	Separation limit
		(MHz)	(KHz)	(KHz)
	00	2402	1003	2/3 *20dB BW
	39	2441	1000	2/3 *20dB BW
_	78	2480	1003	2/3 *20dB BW

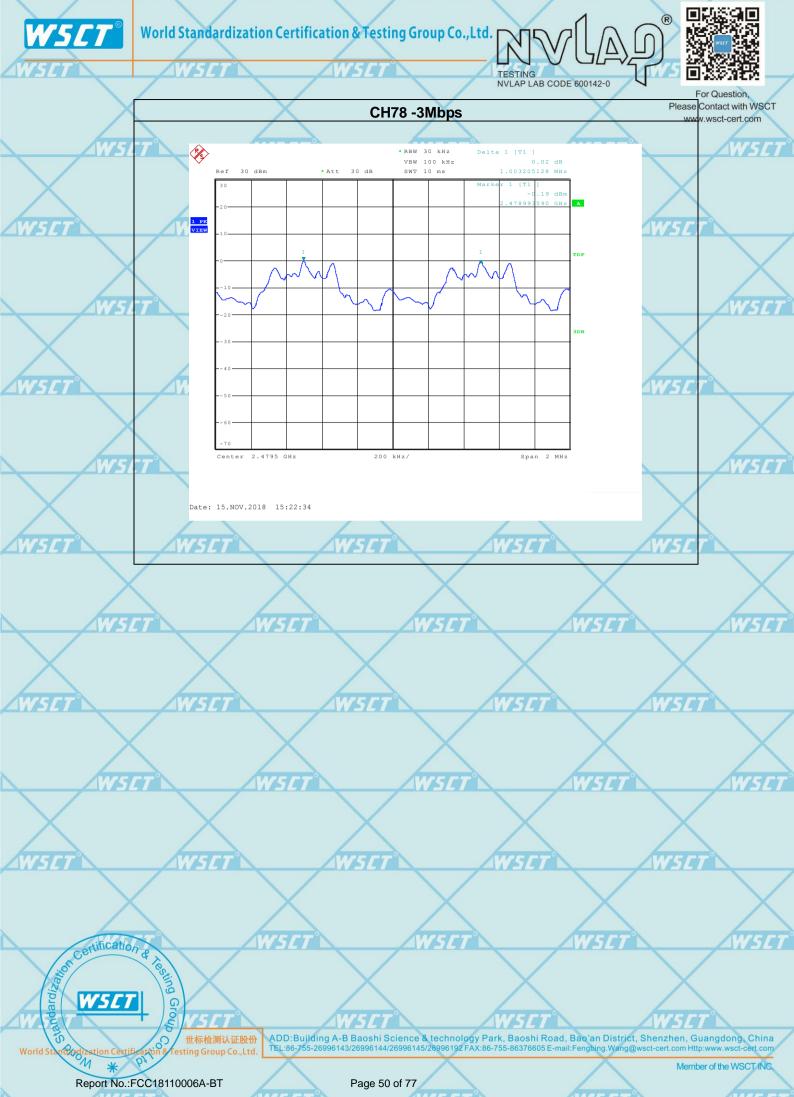
Note: 20db bandwidth refer to section 9.6



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7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

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1	FCC Part15 (15.247) , Subpart C					
	Section	Test Item	Limit	Frequency Range (MHz)	Result	
	15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS	

	Spectrum Parameter	Setting
1	M5 Attenuation	Auto W5
	Span Frequency	> Measurement Bandwidth or Channel Separation
	RB	30kHz
	VB	100 kHz
	Detector	W5CT° Peak CT° W5CT°
	Trace	Max hold
	Sweep Time	Auto

7.1.2 TEST PROCEDURE

- 1. Check the calibration of the measuring instrument (spectrum analyzer) using either an internal calibrator or a known signal from an external generator.
- Set the spectrum analyzer as follows: VBW =30kHz, RBW=100kHz, Sweep = auto Detector function = peak, Trace = max hold
- Measure the highest amplitude appearing on spectral display and record the level to calculate results.
- 4. Repeat above procedures until all frequencies measured were complete.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP

EUT SPECTRUM ANALYZER

7.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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7.2 TEST RESULTS

Note: the worst case is DH5 as result in this part.

- 3					-
	Pressure	1012 hPa	Test Mode	CH00/CH39/C78(1Mbps)	R
	Temperature	25 ℃	Relative Humidity	60%	

1	Frequency	20dB Bandwidth (kHz)	75ET Result W5ET
	2402 MHz	912	PASS
4	2441 MHz	923	PASS
4	2480 MHz	912	PASS

CH00 -1Mbps

WSET WSET WSET



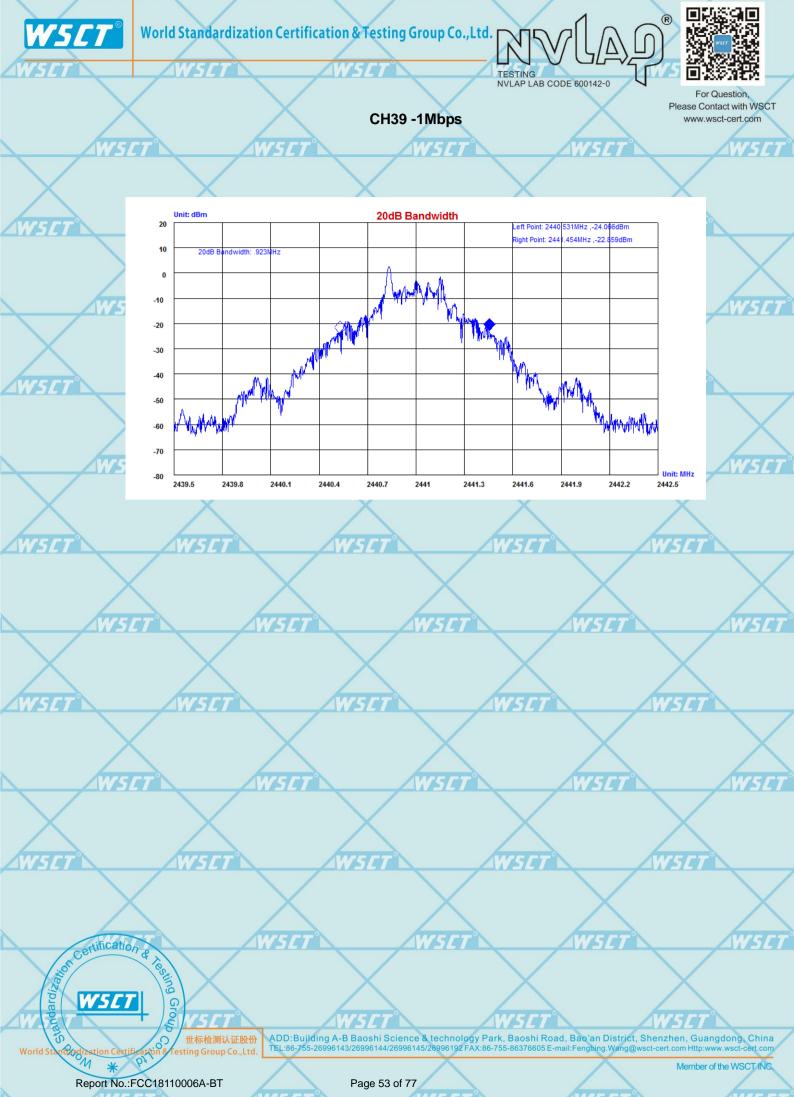
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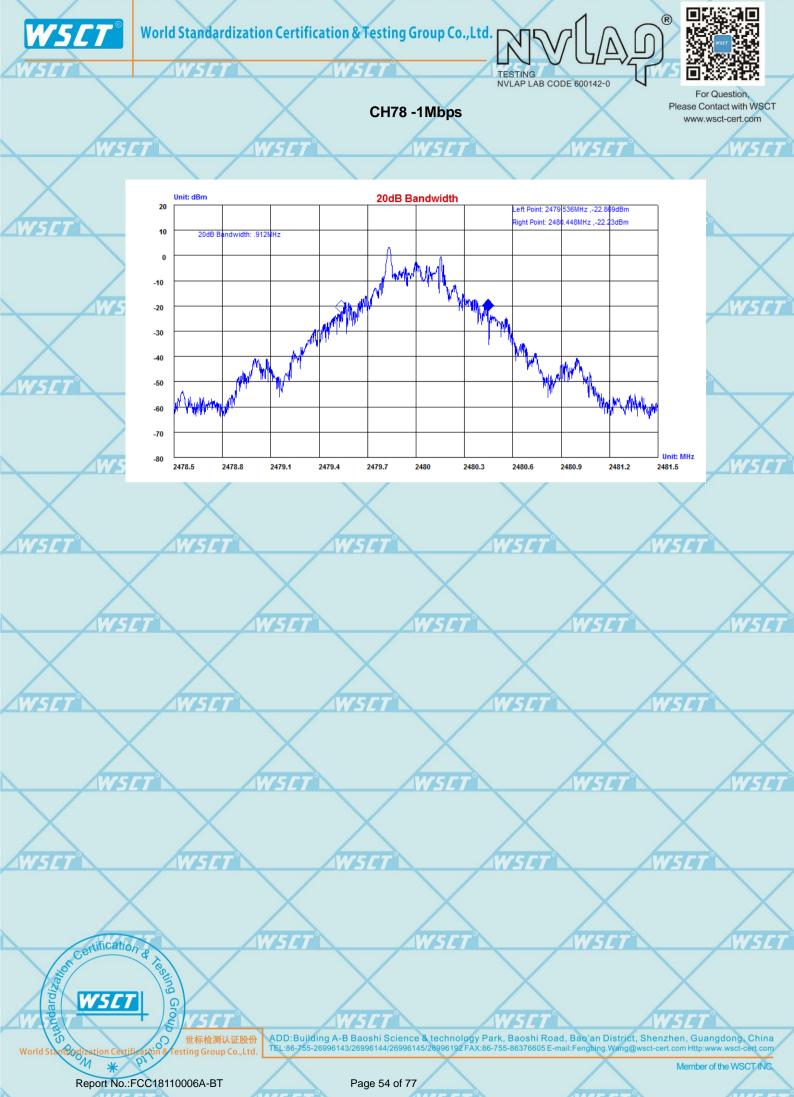
WSET WSET WSET WSET

WSET WSET WSET

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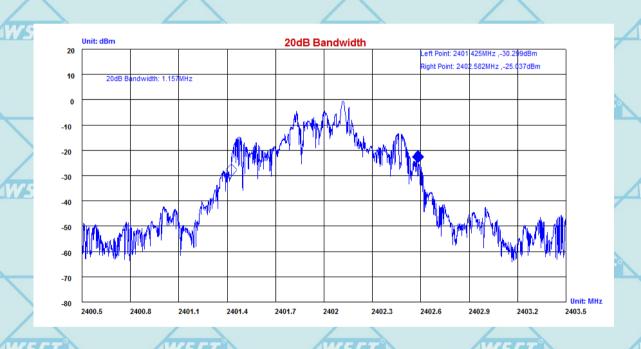


Note: the worst case is DH5as result in this part.

Pressure	1012 hPa			Test Mode	CH00/CH39/C78(2Mbps)
Temperature	25 ℃	\vee	0	Relative Humidity	60%

1	Frequency	20dB Bandwidth (kHz)	Result
	2402 MHz	1157	PASS
	W5CT 2441 MHz W5CT	1142/5/7	PASS
	2480 MHz	1142	PASS

CH00 -2Mbps



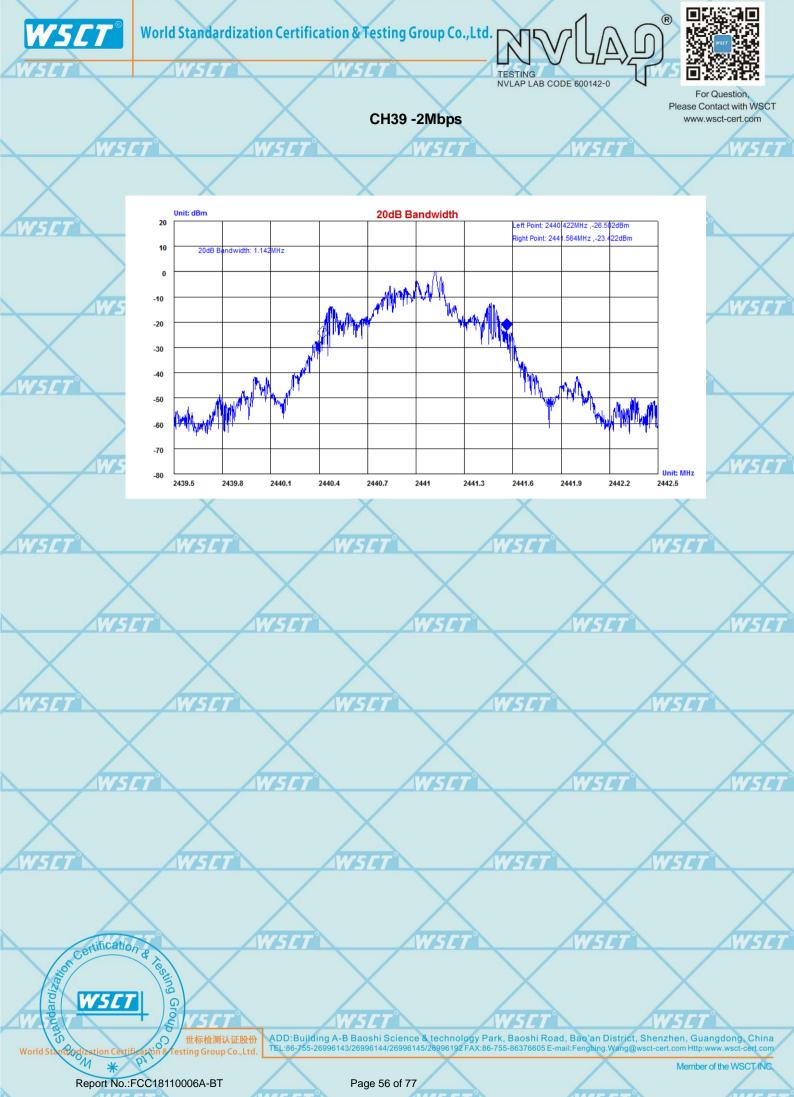
SET WSET WSET WSET

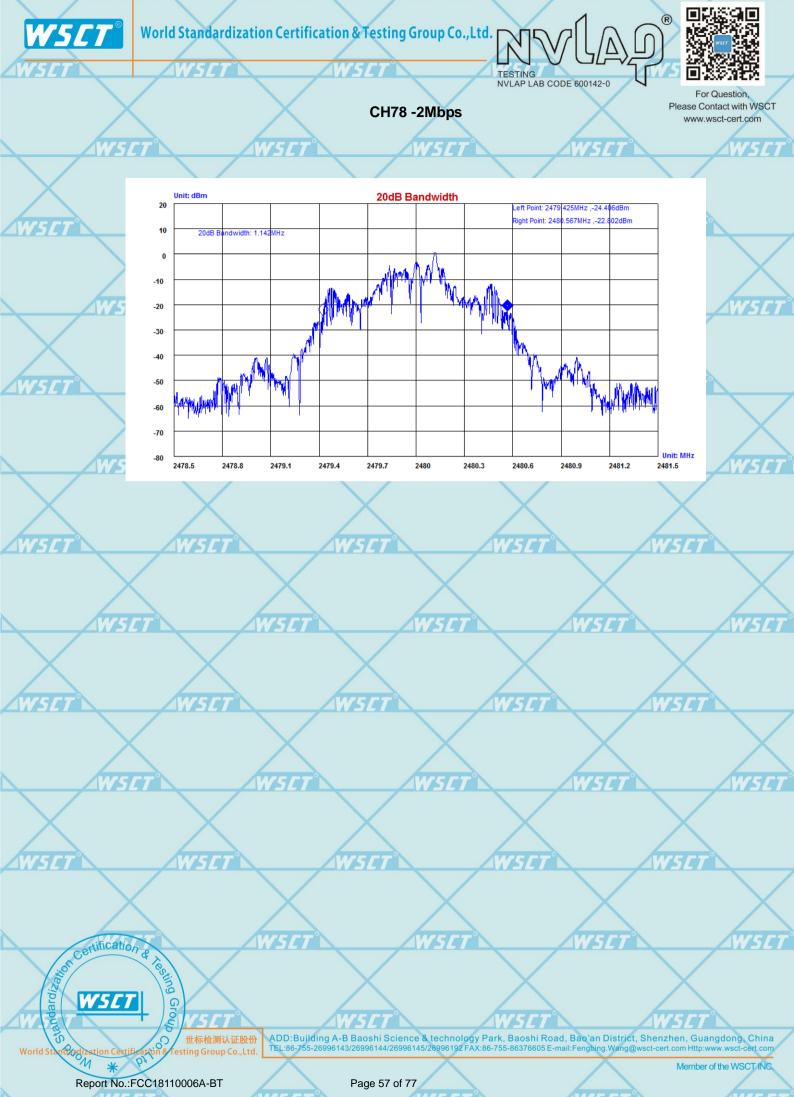
WSET WSET WSET

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NVLAP LAB CODE 600142-0



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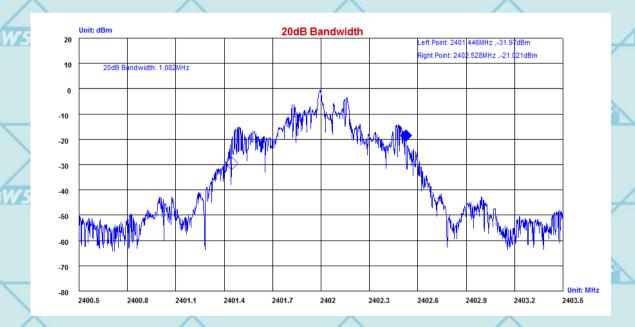
Note: the worst case is DH5as result in this part.

1	Pressure	1012 hPa	Test Mode	CH00/CH39/C78(3Mbps)
	Temperature	25 ℃	Relative Humidity	60%

1	Frequency	20dB Bandwidth (kHz)	PSET Result WSET
	2402 MHz	1082	PASS
	2441 MHz	1089	PASS
	2480 MHz 4550	1079	PASS

CH00 -3Mbps

WSET WSET WSET



WSET WSET WSET WSET

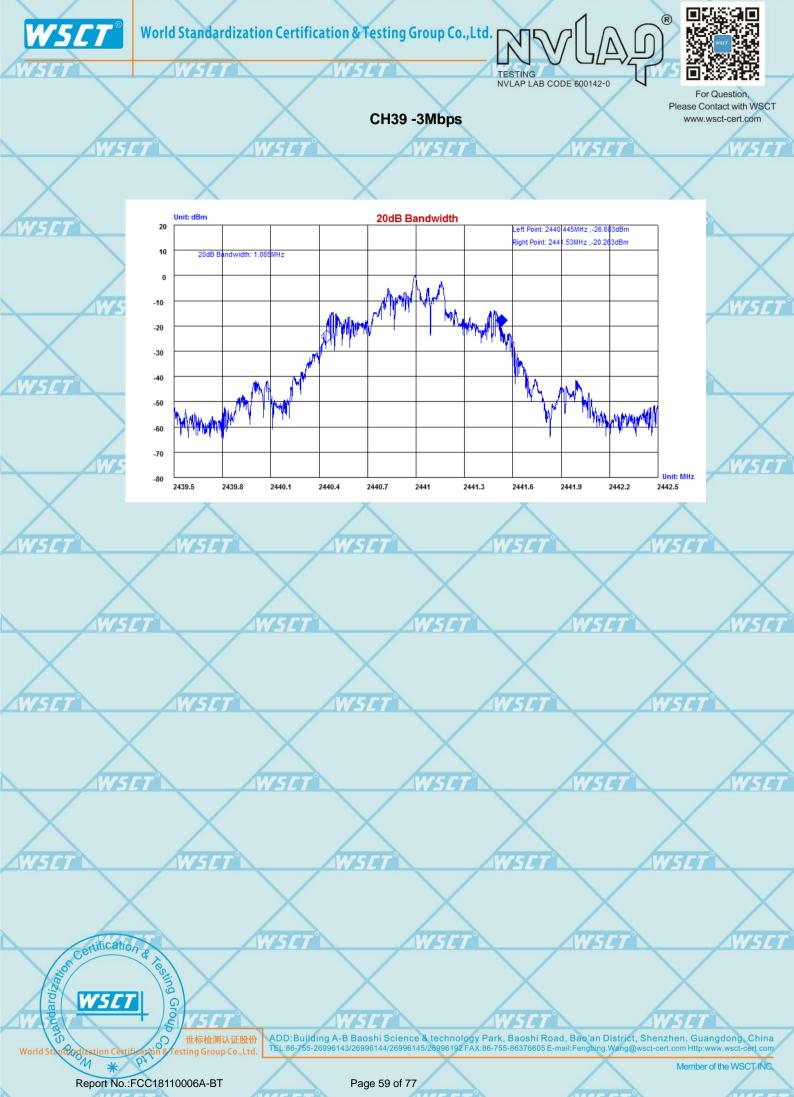
WSET WSET WSET WSET

WSET WSET WSET

W5CT[®] W5CT[®] W5CT[®] ADD:Bujlding A-B Baoshi Science & technology Park, Baoshi Road, Bao'an Di

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8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C					
Section Test Item Limit		Frequency Range (MHz)	Result			
	15.247	Peak Output	1W for 1Mbps	2400-2483.5	PASS	
٦	(b)(i)	Power	0.125Wfor2/3Mbps	= 133 = 10010		

8.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyze rand antenna output port as show in the block diagram below,
- b. Setting: RBW ≥ the 20 dB bandwidth of the emission being measured

Span \geq approximately 3 times the 20 dB bandwidth, centered on a hop ping channel VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP

EUT		Spectrum	X
	V	analyzer	WSET

8.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

WSET WSET WSET

世标检测认证股份 Testing Group Co., Ltd. ADD:Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, Chin EL:86-755-26996143/26996144/26996145/26996192 FAX:86-755-86376605 E-mail:Fengbing.Wang@wsct-cert.com Http:www.wsct-cert.com







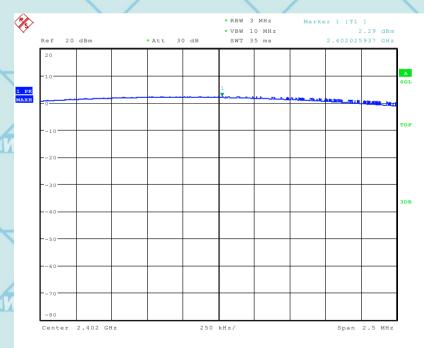
8.2 TEST RESULTS

For Question, Please Contact with WSCT ert.com

1	Pressure	1012 hPa		CH00/ CH39 /CH78 (1M/2M/3Mbps Mode)
	Temperature	25 ℃	Relative Humidity	60%

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT(dBm)	Result
1Mbps				
CH00	2402	2.29	30	Pass
W5 CH39	2441	3.24	30 W5E	Pass
CH78	2480	3.85	30	Pass
X		2Mbps	X	X
CH00	2402	1.44	20.97	Pass
CH39	2441	2.25	20.97	Pass
CH78	2480	2.87	20.97	Pass
		3Mbps		
W5/CH00	2402	1.36 7	20.97 <i>V5L</i>	Pass
CH39	2441	2.21	20.97	Pass
CH78	2480	2.82	20.97	Pass
		A A Alama		

1Mbps Channel: Low

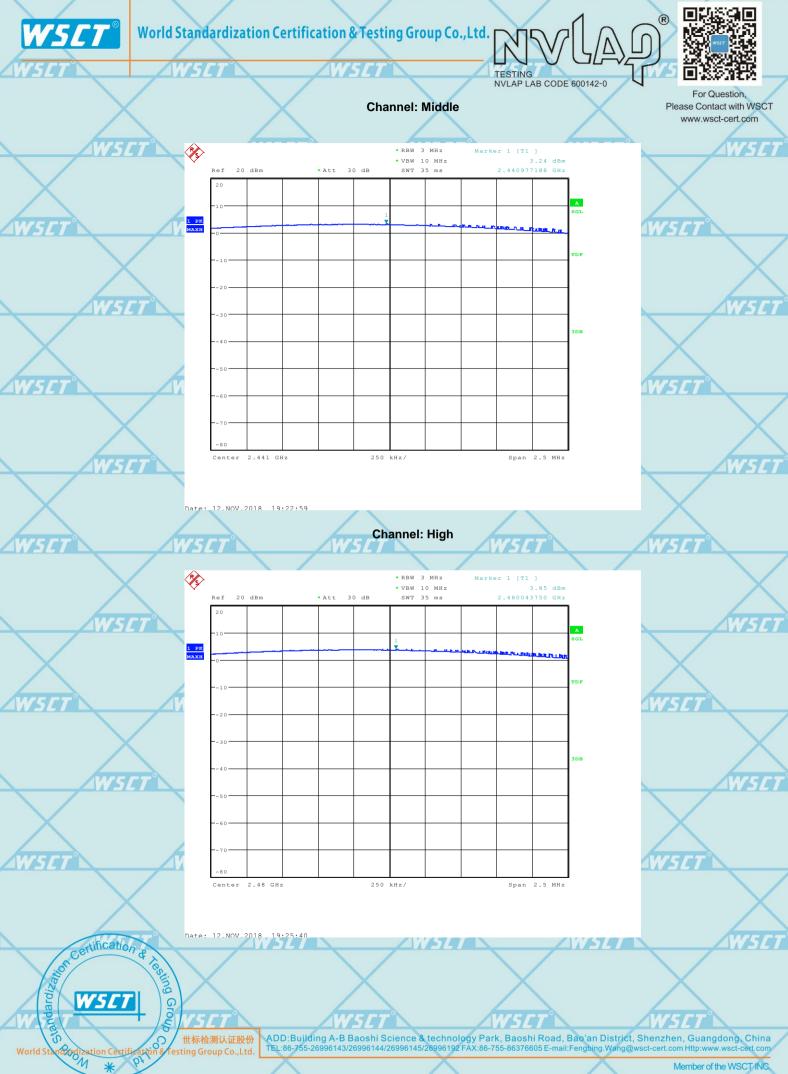


Date: 12.NOV.2018

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Grou

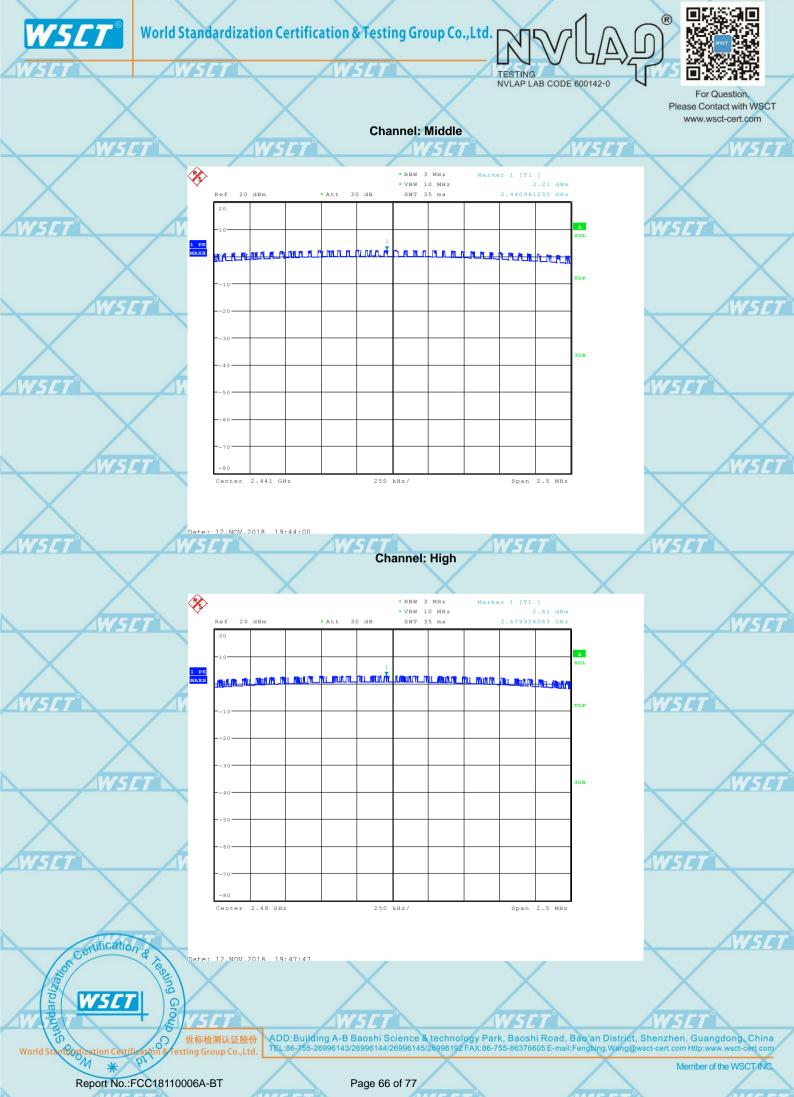
esting Group Co.,Ltd.



Report No.:FCC18110006A-BT









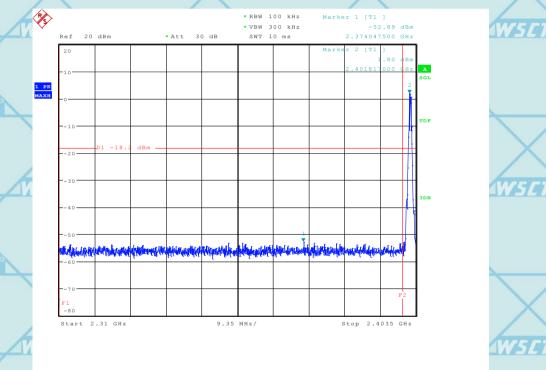


9. 100KHZ BAND EDGES MEASUREMENT

9.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C						
	WSET		NSET"	Frequency Range	WSET N		
	Section	Test Item	Limit	(MHz)	Result		
1	15.247(d)	Band Edges Measurement	(20dB bandwidth)	2400-2483.5	PASS		

1Mbps Channel: Low

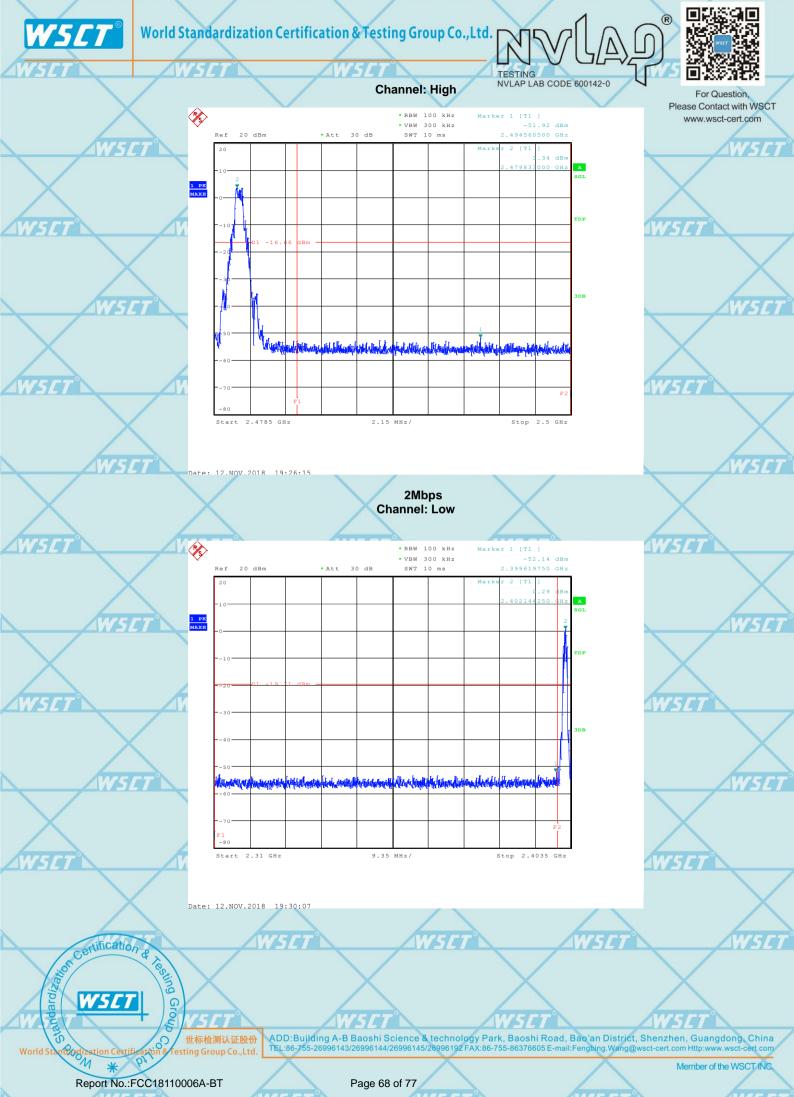


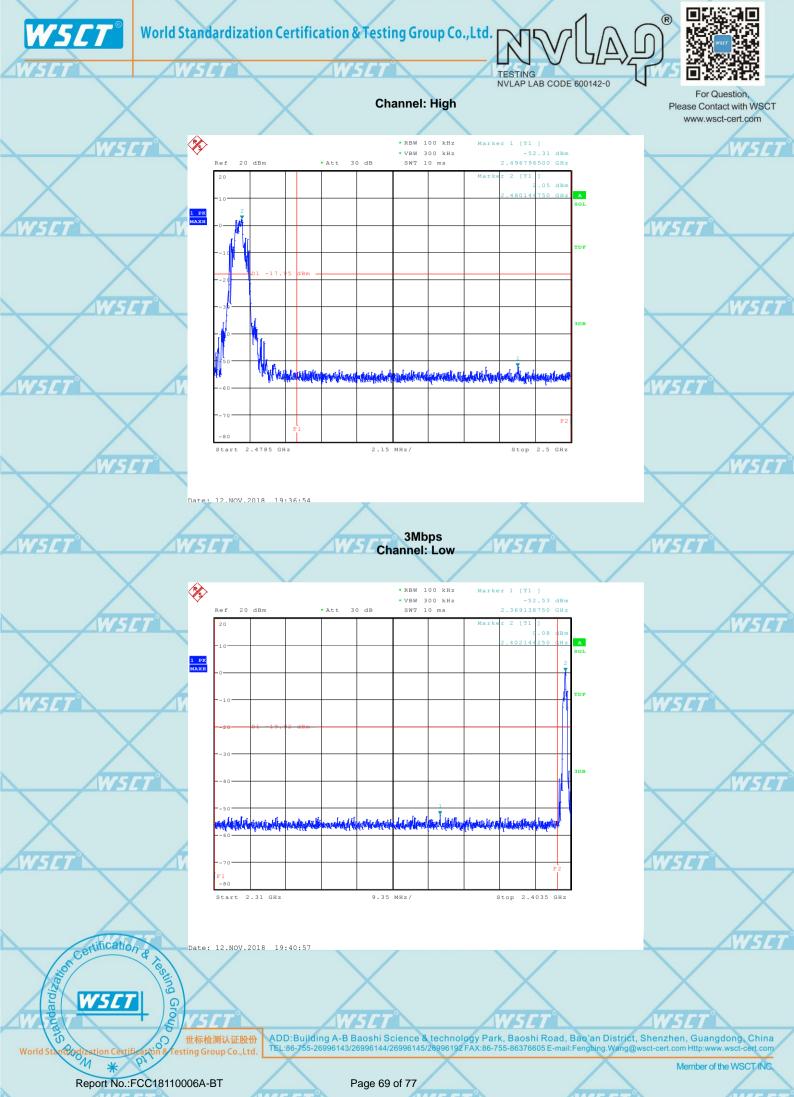
Date: 12.NOV.2018 19:21:04

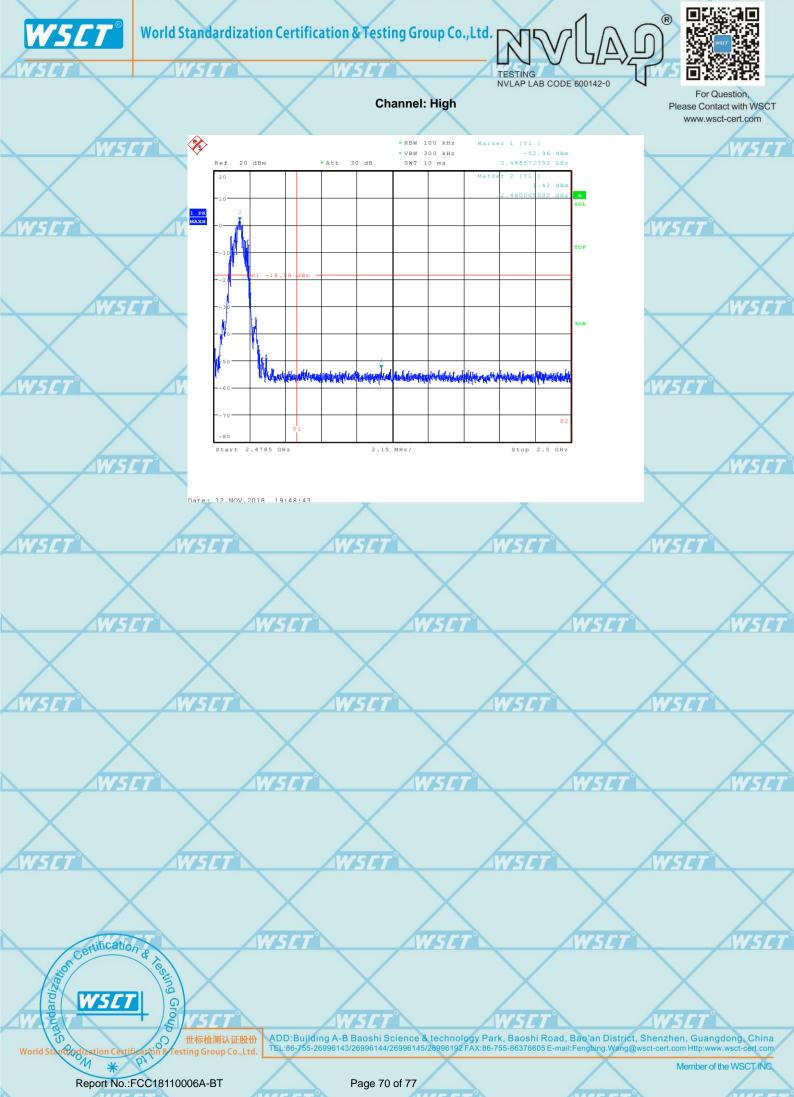
WSET WSET WSET

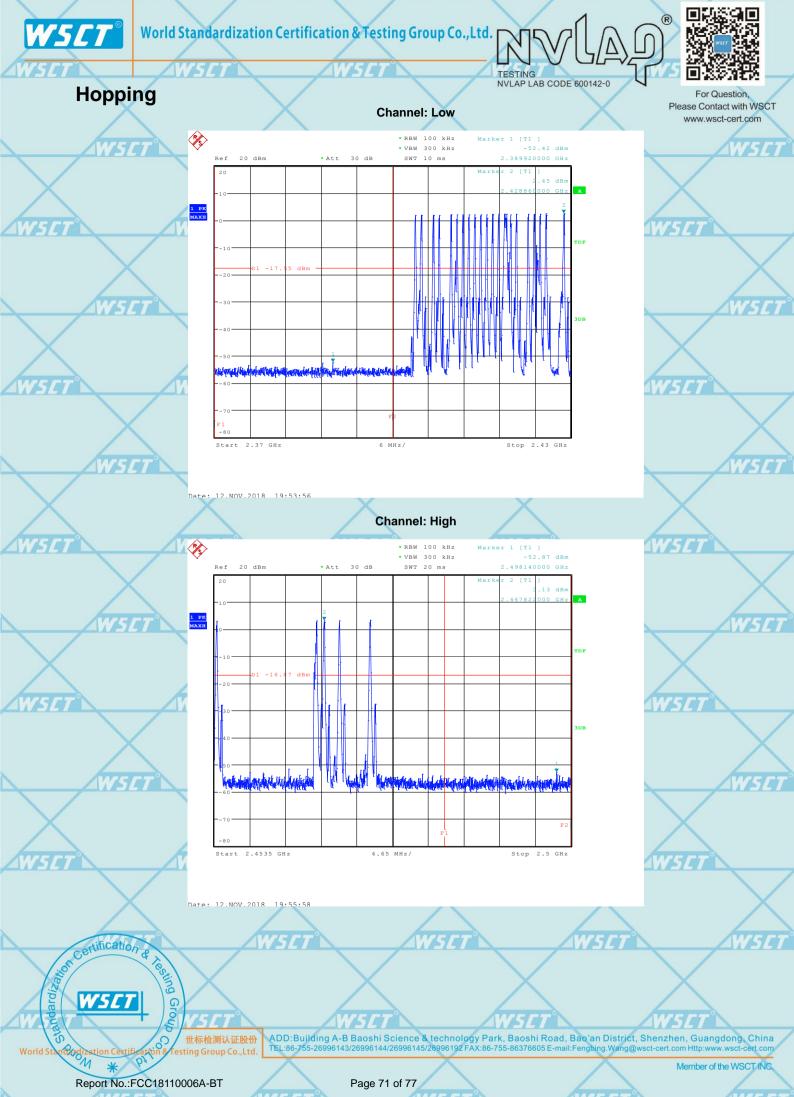
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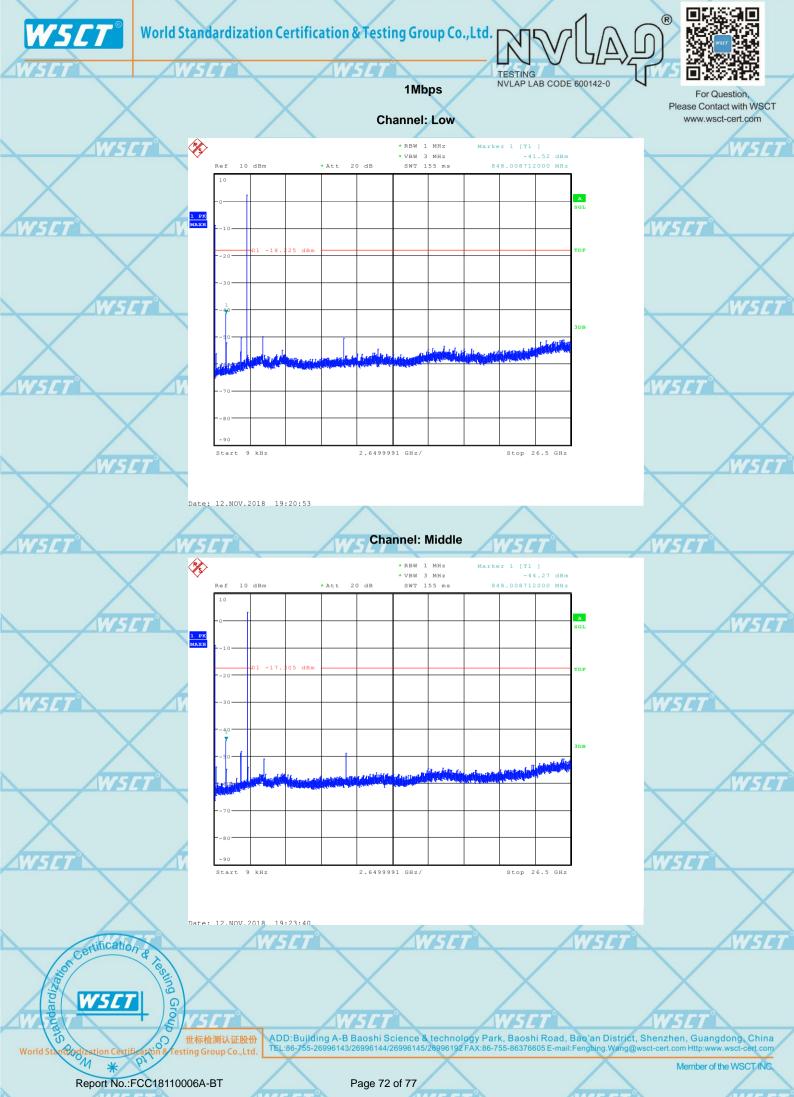
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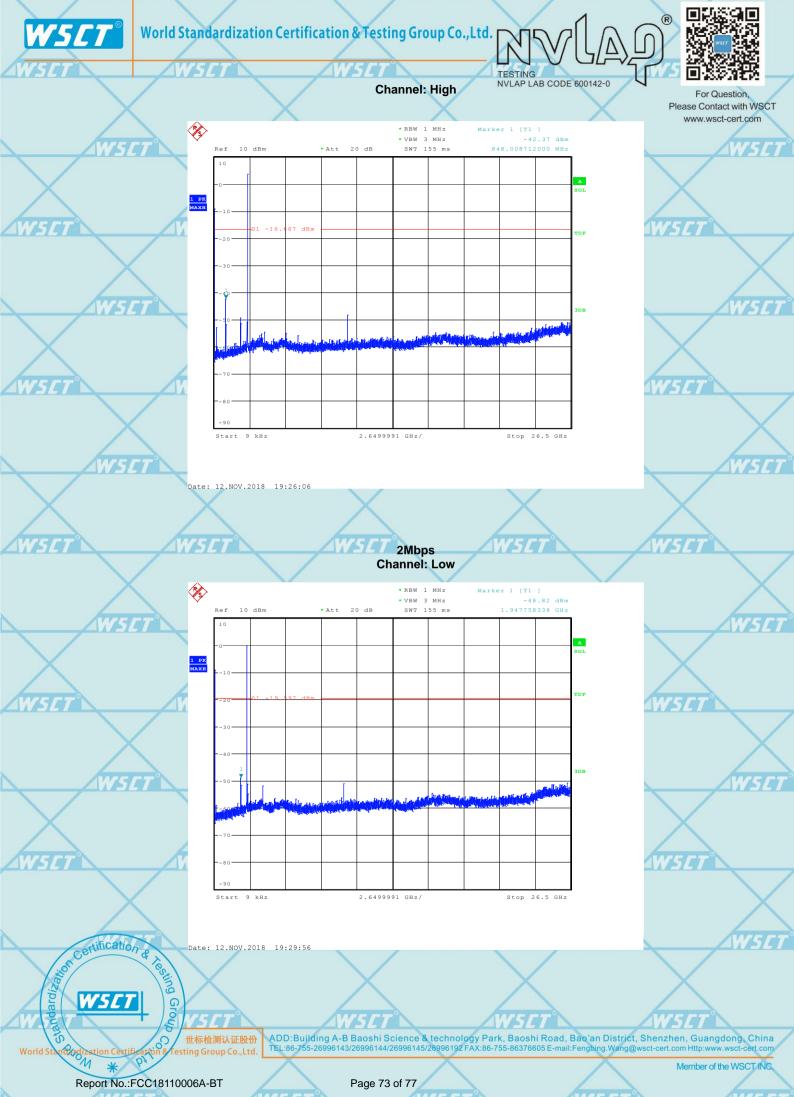


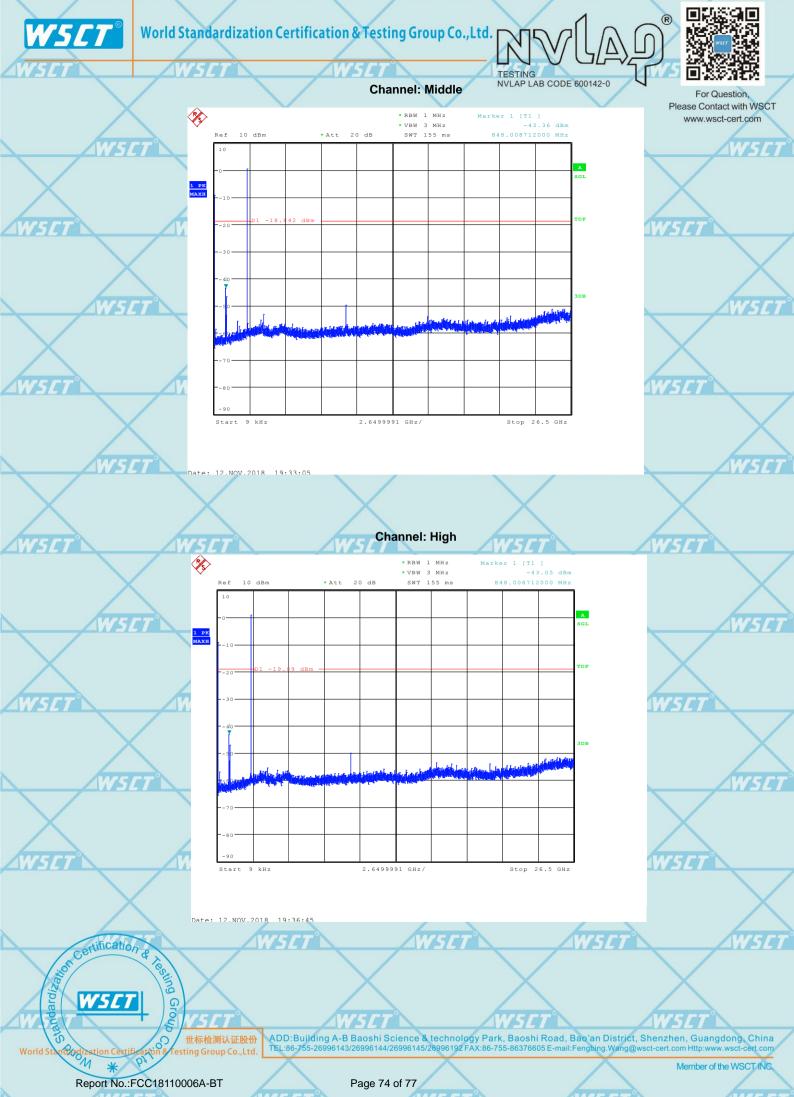


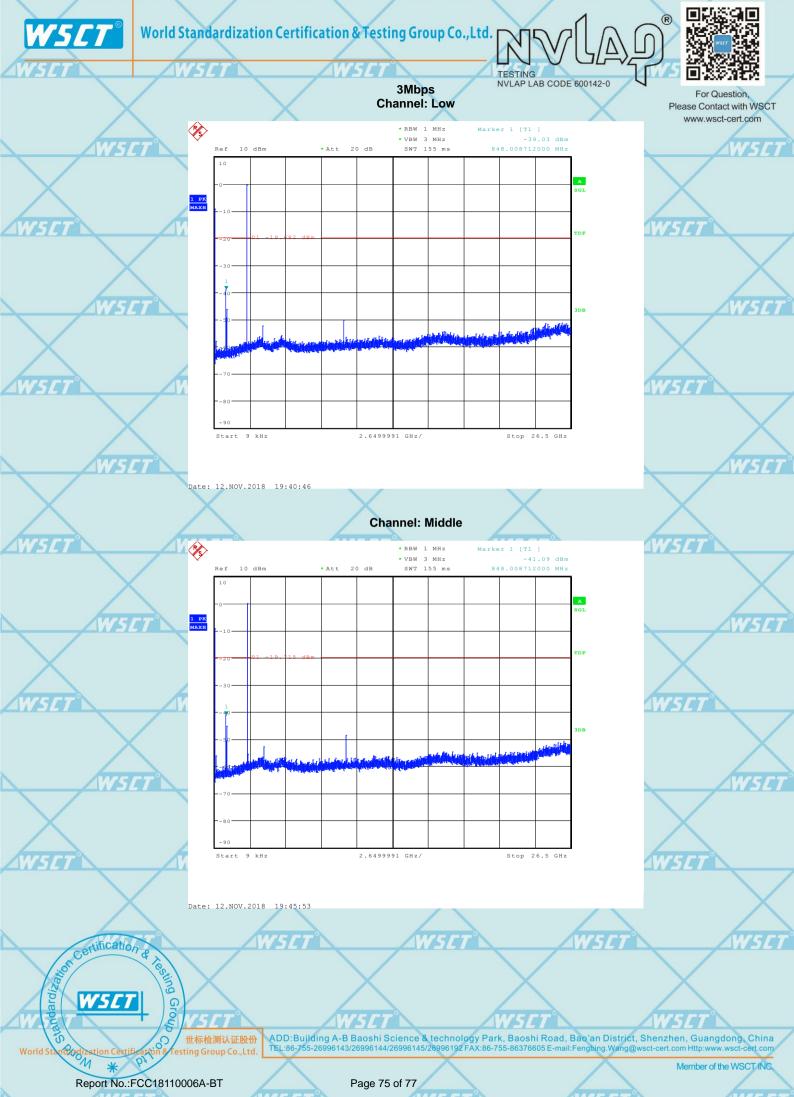


















10. ANTENNA APPLICATION

10.1 ANTENNA REQUIREMENT

The EUT'S antenna is met the requirement of FCC part 15C section 15.203 and 15.247

FCC part 15C section 15.247 requirements: Systems operating in the 2402-2480MHz band that are used exclusively for fixed.

10.1.2 Result

The EUT's antenna Integral Antenna, The antenna's gain is -1.3dBi and meets the requirement.

The EUT's antenna Integral Antenna, The antenna's gain is -1.3dBi and meets the requirement.								
WSET	WSET	WSET	WSET	WSET				
WSET	WSET	WSET	WSET					
END OF REPORT WSET WSET WSET WSET								
WSET WSET			WSET					
WSET	WSET	WSET	WSET	WSET				
WSET WSET			WSET					
WSET	WSET	WSET	WSET	WSET				
WSET WSET			X					
	WSET	WSET	WSET	WSET				
Certification & Regulation of the Certification of	WSE		WSCT					

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