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# **TEST REPORT**

FCC ID: 2AIZN-X609B

**Product: Mobile Phone** 

Model No.: X609B

Additional Model No.: N/A

Trade Mark: Infinix

Report No.: FCC18080068A-BT

Issued Date: Oct. 16, 2018

Issued for:

INFINIX MOBILITY LIMITED

RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17

CANTON RD TST KLN HONG KONG

Issued By:

World Standardization Certification & Testing Group Co., Ltd.

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## 1. GENERAL INFORMATION

I. OLIVEIWE IIII OTAMATION			
Product:	Mobile phone		
Model No.:	X609B		
Additional	N/A		
Model:	IV/A		
Applicant:	INFINIX MOBILITY LIMITED		
Address:	RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN 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:	Sep. 26, 2018		
Date of Test:	Sep. 26, 2018 to Oct. 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.

Tested By:	Pushixi	Date:	Oct-16, 2018	
NSET .	( Pu Shixi)	AVST		

Check By: Qin Shuiquen

Approved By:

(Wang Fengbing)

Date: Oct. 16. 20/8

Date: 000.16, 301

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11	GENER	AL DESCRIPTION	N OF FUT

.1	GENERAL DES	CRIPTION OF EUT  NVLAP LAB CODE 600142-0  For Questign	on,
E TO A M TO A A M A H WS WET B IN A IN OF C C M	Equipment Type:	Mobile Phone Please Contact w www.wsct-ce	
	Test Model:	X609BW5_T W5_T W5_T	75 <i>ET</i>
	Additional Model:	N/A	
	Trade Mark:	Infinix	
	Applicant:	INFINIX MOBILITY LIMITED W541 W541	
	Address:	RMS 05-15, 13A/F SOUTH TOWER WORLD FINANCE CTR HARBOUR CITY 17 CANTON RD TST KLN HONG KONG	X
)	Manufacturer:	SHENZHEN TECNO TECHNOLOGY CO.,LTD.	V5ET
	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 WSET WSET WSET	
	Software version:	X609B-H8025C-GO-180911V46	$\vee$
	Extreme Temp. Tolerance:	-10 C 10 +03 C	V5/17
	Battery information:	Li-Polymer Battery: BL-34BX Voltage: 3.8V Rated Capacity: 3400mAh/12.92Wh Typical Capacity: 3500mAh/13.30Wh Limited Charge Voltage: 4.35V	
	Adapter Information:	Adapter: CU-52JT Input: AC 100-240V 50/60Hz 200mA Output: DC 5V==-1.2A	X
_	Operating Frequency	2402-2480MHz	VSET
	Channels	79	
	Channel Spacing	1MHz	
	Modulation Type	GFSK, π /4-DQPSK, 8-DPSK	
	Version	3.0	X
	Antenna Type:	Integral Antenna	VSE1
_	Antenna gain:	1.26dBi	E/S/

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### 1.2 FACILITIES AND ACCREDITATIONS

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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  $\mathbf{95}$  %  $\circ$ 

L	No.	Item WSCT WS	Uncertainty W5C7
	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
L	7	Humidity	±2%

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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	5 E
,	1Mbps		
X	2Mbps	Mode 1 \ Mode 2 \ Mode 3 \ Mode 4	
J	3Mbps	The American American	

Pretest Mode	Description
Mode 1	CH00 VSFT
Mode 2	CH39
Mode 3	CH78
Mode 4	Normal Hopping

For Conducted Emission				
Final Test Mode	Description			
Mode 4	Normal Hopping			

A					
For Radiated Emission					
Final Test Mode Description					
Mode 1	CH00				
Mode 2	CH39				
Mode 3	WSET CH78WSET W				
Mode 4	Normal Hopping				

#### Note:

ertification

- (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.







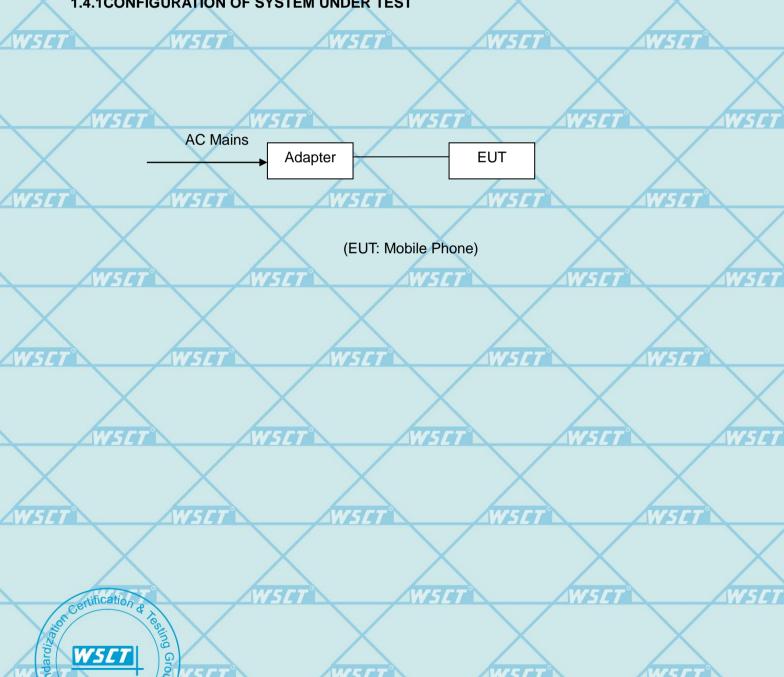
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### 1.4 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

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

Test software Version	WSET	N/A	SET
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)

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

es or wscr

	Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
/	1	Adapter	N 3L	CU-52JT		ZWZLI
	2	Earphone	1	N/A		/

	Note:	ET <sup>®</sup>	WSET"	WSET	WSET	WSET
	(1)		nent was authorized	by Doclaration of C	confirmation	
	(2)	For detachable type	e I/O cable should be	e specified the lengt	th in cm in 『Length』 colu	ımn.
WSET	(3)				nielded" "without core".	ET.
			X	X	X	X
	600					
	W5		WSET"	WSET	WSET	WSET
					/	
					<b>\</b> /	
WSET		WSET	WSET	W	SET WS	CT <sup>°</sup>
			X	X	X	X
	WS		WSET"	WSCT	WSCT	WSET
				111111111111111111111111111111111111111		- NAG
X		$\times$	X		$\times$	
	_			_		
∠W5E7		WSET	WSET	W	SET WS	ET .
	WS	TT A	WSET	WSET	WSET	WSET
X		X	X		$\times$	<b>X</b>
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# 2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Standard Section  Test Item  Judgment  Remark  15.207  Conducted Emission  PASS  15.247(a)(1)  Hopping Channel Separation  PASS  15.247(b)(1)  Peak Output Power  PASS  15.247(c)  Radiated Spurious Emission  PASS  15.247(a)(iii)  Number of Hopping Frequency  PASS  15.247(a)(iiii)  Dwell Time  PASS  15.247(a)(1)  Bandwidth  PASS  15.247(d)  100kHz Band Edges  PASS  15.205  Band Edge Emission  PASS		WSET	W5CT W5CT		567	
Section  15.207  Conducted Emission  PASS  15.247(a)(1)  Hopping Channel Separation  PASS  15.247(b)(1)  Peak Output Power  PASS  15.247(c)  Radiated Spurious Emission  PASS  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  15.205  Band Edge Emission  PASS	/		FCC Part15 (15.247) , Subpart (			/
15.247(a)(1) Hopping Channel Separation PASS  15.247(b)(1) Peak Output Power PASS  15.247(c) Radiated Spurious Emission PASS  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  15.205 Band Edge Emission PASS			Test Item	Judgment	Remark	7
15.247(b)(1) Peak Output Power PASS  15.247(c) Radiated Spurious Emission PASS  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  15.205 Band Edge Emission PASS		15.207	Conducted Emission	PASS		
15.247(c) Radiated Spurious Emission PASS  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  15.205 Band Edge Emission PASS		15.247(a)(1)	Hopping Channel Separation	PASS	r r	
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 15.205 Band Edge Emission PASS	/	15.247(b)(1)	Peak Output Power	PASS		/
15.247(a)(iii)         Dwell Time         PASS           15.247(a)(1)         Bandwidth         PASS           15.247(d)         100kHz Band Edges         PASS           15.205         Band Edge Emission         PASS		15.247(c)	Radiated Spurious Emission	PASS	X	
15.247(a)(1)  Bandwidth  PASS  15.247(d)  100kHz Band Edges  PASS  15.205  Band Edge Emission  PASS		15.247(a)(iii) 5 1 1	Number of Hopping Frequency	PASS	W5	.7
15.247(d) 100kHz Band Edges PASS 15.205 Band Edge Emission PASS		15.247(a)(iii)	Dwell Time	PASS	X	
15.205 Band Edge Emission PASS		15.247(a)(1)	W5[T] Bandwidth W5[T]	PASS	SET	
WSG	/	15.247(d)	100kHz Band Edges	PASS		/
15.203 Antenna Requirement PASS	1	15.205	Band Edge Emission	PASS	- Avra	1
		15.203	Antenna Requirement	PASS		. //

NOTE:

(1)" N/A" denotes test is not applicable in this test report.

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WSET WSET WSET

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# 3. MEASUREMENT INSTRUMENTS

/	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	1
	EMI Test Receiver	R&S	ESCI	100005	08/19/2018	08/18/2019	
7	LISN	AFJ	LS16	16010222119	08/19/2018	08/18/2019	
	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	7/
/	Coaxial cable	Megalon	LMR400	N/A	08/12/2018	08/11/2019	
	GPIB cable	Megalon	GPIB	N/A	08/12/2018	08/11/2019	
7	Spectrum Analyzer	R&S	FSU	100114	08/19/2018	08/18/2019	
	Pre Amplifier	H.P.	HP8447E	2945A02715	10/13/2018	10/12/2019	
	Pre-Amplifier	CDSI	PAP-1G18-38		10/13/2018	10/12/2019	×
	Bi-log Antenna	SUNOL Sciences	JB3 <sub>W5</sub> /	A021907	09/13/2018	09/12/2019	5 <u>A</u>
/	9*6*6 Anechoic	/ \	\ <u>-</u>		08/21/2018	08/20/2019	
\	Horn Antenna	COMPLIANCE ENGINEERING	CE18000	$\mathcal{A}$	09/13/2018	09/12/2019	
7	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	ccs	N/A	N/A	N.C.R	N.C.R	
	Turn Table	VCCS 7	N/AW5L	7°N/A	N.C.R	N.C.R	7/4
/	Antenna Tower	ccs	N/A	N/A	N.C.R	N.C.R	
\	RF cable	Murata	MXHQ87WA3000		08/21/2018	08/20/2019	
7	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	
_	Power sensor	Anritsu	MX248XD		08/19/2018	08/18/2019	7

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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
W5 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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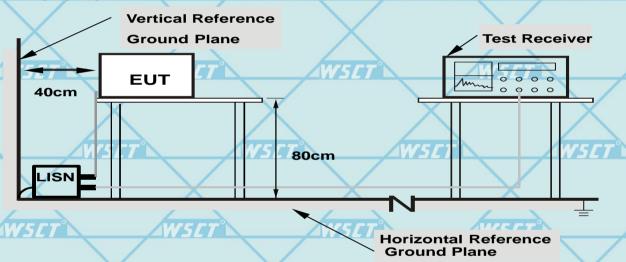
### **4.1.2 TEST PROCEDURE**

- 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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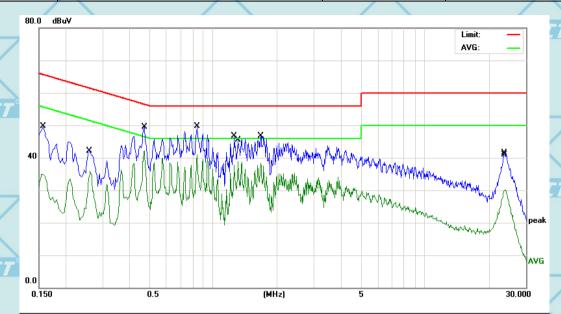


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### 4.1.6TEST RESULTS

Temperature	26 °C ∕W5[T° \ W5	Relative Humidity	54%
Pressure	1010hPa	Phase	L /
Test Mode	Mode 4	Voltage	120V/60Hz



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		4
/			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	
	1		0.1580	43.24	10.44	53.68	65.56	-11.88	QP	
7	2		0.2620	25.48	10.43	35.91	51.36	-15.45	AVG	
	3	*	0.4700	31.76	10.40	42.16	46.51	-4.35	AVG	
	4		0.4740	36.74	10.40	47.14	56.44	-9.30	QP	
	5		0.8380	37.06	10.36	47.42	56.00	-8.58	QP	7
7	6		0.8380	30.54	10.36	40.90	46.00	-5.10	AVG	2
	7		1.2579	33.73	10.33	44.06	56.00	-11.94	QP	
	8		1.3099	28.62	10.32	38.94	46.00	-7.06	AVG	
	9		1.6740	32.14	10.31	42.45	56.00	-13.55	QP	
	10		1.6740	27.96	10.31	38.27	46.00	-7.73	AVG	
	11		23.7540	25.27	10.10	35.37	60.00	-24.63	QP	7
7	12		24.0500	19.95	10.10	30.05	50.00	-19.95	AVG	5

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

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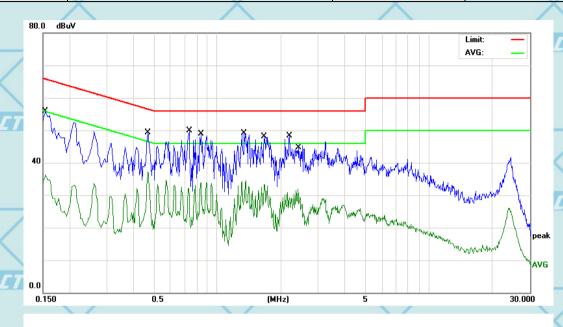






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			www.wsct-	-ce
Temperature	26 ℃	Relative Humidity	54%	
Pressure	1010hPa	Phase	N	1
Test Mode	Mode 4	Voltage	120V/60Hz	



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
/			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	1		0.1539	36.10	10.44	46.54	65.78	-19.24	QP
7	2		0.1539	25.84	10.44	36.28	55.78	-19.50	AVG
ľ	3		0.4700	33.73	10.40	44.13	56.51	-12.38	QP
	4	*	0.4700	26.84	10.40	37.24	46.51	-9.27	AVG
	5		0.7380	31.77	10.37	42.14	56.00	-13.86	QP
	6		0.8380	23.62	10.36	33.98	46.00	-12.02	AVG
	7		1.3420	29.23	10.32	39.55	56.00	-16.45	QP
7	8		1.3619	24.11	10.32	34.43	46.00	-11.57	AVG
	9		1.6700	31.26	10.31	41.57	56.00	-14.43	QP
	10		1.6740	22.99	10.31	33.30	46.00	-12.70	AVG
	11		2.1980	27.65	10.29	37.94	56.00	-18.06	QP
	12		2.4060	21.55	10.28	31.83	46.00	-14.17	AVG

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

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### 4.2 RADIATED EMISSION MEASUREMENT

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## 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
7	1.705~30.0	30 75/7	30
4	30~88	100	3
	88~216	150	3
	216~960	200	3
	Above 960	500	3

### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

1	FF FT NAME OF THE PARTY OF THE		IMPET TO		
	EDECLIENCY (MILE)	Limit (dBuV/m) (at 3M)			
	FREQUENCY (MHz)	PEAK	AVERAGE		
	Above 1000	74	54		

#### Notas

- (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	75_7
	Stop Frequency	10th carrier harmonic
,	RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP W5
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

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- 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. Note:

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

### **4.2.3 DEVIATION FROM TEST STANDARD**

No deviation

WSET WSET WSET WSET WSET WSET WSET

WSET WSET WSET WSET

WSET WSET WSET

W5C7 W5C1 W5C1 W5C1 W5C1

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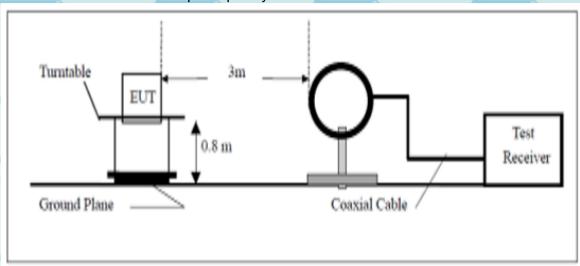




4.2.4 TEST SETUP

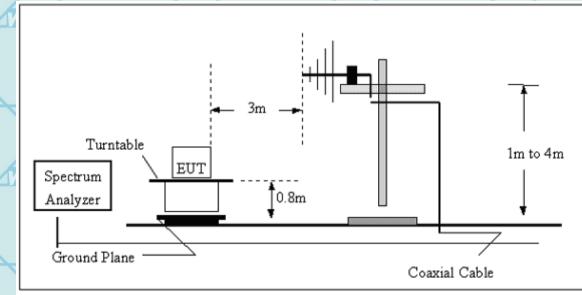
(A) Radiated Emission Test-Up Frequency Below 30MHz

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



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(C) Radiated Emission Test-Up Frequency Above 1GHz

EUT





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## **4.2.5 EUT OPERATING CONDITIONS**

Ground Plane

Turntable

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.

Report No.:FCC18080068A-BT

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### 4.2.5.1 RESULTS (Below 30 MHz)

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

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
<b>/</b>	<u></u>		/	Р
WSET	W5LT	W5ET N	W5	P

### 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.

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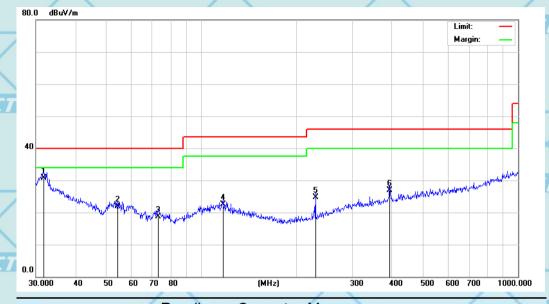




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## 4.2.5.2 TEST RESULTS (Between 30M - 1000 MHz)

Test Mode	Mode 1 with GFSK	modulation	Polarization :	Horizontal
Temperature	20 ℃		Relative Humidity	48%
Pressure	1010 hPa	X		X



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	TI.
,		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*/	31.8427	26.70	4.08	30.78	40.00	-9.22	QP
2	All	54.4516	27.44	-5.55	21.89	40.00	-18.11	QP
3		73.1025	25.82	-7.06	18.76	40.00	-21.24	QP
4	1	116.9495	25.07	-2.54	22.53	43.50	-20.97	QP
<b>L</b> 5	1	229.2931	30.42	-5.67	24.75	46.00	-21.25	QP
6	3	393.4723	28.41	-1.56	26.85	46.00	-19.15	QP

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

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1	Test Mode	Mode 1 with GFS	K modulation	Polarization :	Vertical	
	Temperature	<b>20</b> ℃		Relative Humidity	48%	
	Pressure	1010 hPa	X		X	



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	THE
/			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	*	31.3992	27.69	4.26	31.95	40.00	-8.05	QP
7	2	41	54.4516	34.31	-5.55	28.76	40.00	-11.24	QP //
	3	8	104.1701	25.49	-3.01	22.48	43.50	-21.02	QP
	4		159.7844	23.60	-5.77	17.83	43.50	-25.67	QP
	5	X	315.4808	23.89	-2.06	21.83	46.00	-24.17	QP
/	6		522.7180	25.16	0.68	25.84	46.00	-20.16	QP

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







## 4.2.5.3 TEST RESULTS(1GHz to 25GHz)

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1	Pressure	1010 hPa	Test Mode	Mode 1 TX(1Mbps)	1000
4		<b>20</b> ℃	Relative Humidity	48%	VSLI

Freq.	Ant.Pol.	Emission		Limit		Over(dB)	
(MHz)	'5/T	Level(	dBuV)	3m(dBu)	V/m)		WSIT
	H/V	PK	AV	PK	AV	PK	AV
4804	V	59.69	40.71	74	54	-14.31	-13.29
7206	V	58.73	40.53	74	54	-15.27	-13.47
4804	H	59.73	39.67	74	54	-14.27	-14.33
7206	H	59.53	40.53	74	54	-14.47	-13.47

Remark:

AWGGT	All emissions not report				
<u> Awseti</u>	WSET	W5ET	W5ET WSET	WSET	WSET
WSET	WSET	WSET	$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		5ET
	WSET	WSET	WSET	WSET	WSET
WSET	WSET	WSET	$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		5.57
	WSET	WSET	WSLT	WSET	WSET
WSET	WSET	WSEI	$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		5.27
	otification	WSET	WSET	WSET	WSET
ardization	WSET Q	X	$\langle \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$		$\times$

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Pressure	1010 hPa	, v	Test Mode	Mode 2 TX(2Mbps)
Temperature	<b>20</b> ℃		Relative Humidity	48%

Freq.	Ant.Pol.	Emission Level(dBuV)		Limit		Over(dB)	
(MHz)	5/7	WSIT		3m(dBuV/m)		WSIT	
	H/V	PK	AV	PK	AV	PK	AV
4882	V	58.57	41.46	74	54	-15.43	-12.54
7323	V	59.34	40.31	74	54	-14.66	-13.69
4882	Н	58.09	39.53	74	54	-15.91	-14.47
7323	-	59.83	40.83	74	54	-14.17	-13.17

### 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%

/	WSFT		567				VSCT		7
	Freq.	Ant.Pol.	Emission L	_evel(dBuV)	Lir	mit	Ove	r(dB)	1
	(MHz)				3m(dB	BuV/m)			
		H/V	PK	AV	PK	AV	PK	AV	
	4960	V	59.34	40.86	74	54	-14.66	-13.14	
_	7440	251	58.37	39.89	74	54	-15.63	-14.11	
	4960	Н	59.95	39.73	74	54	-14.05	-14.27	
	7440	Н	58.29	39.29	<del>×</del> 74	54	-15.71	-14.71	

### Remark:

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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 Mo	de TX /Mod	e1-1Mbps(CH0)
Temperature	20 ℃	Relative	Humidity 48%	
Pressure	1010 hPa	SET		WSET

Frequency	, Meter Reading	Factor	Emission Level	Limits	Margin	Detector
W5 (MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2387	63.22	-8.76	54.46	74	19.54	peak
2387	54.57	-8.76	45.81	54	8.19	AVG
2390	V4 L763.65	-8.73	54.92	W 74.7	19.08	/s peak
2390	54.05	-8.73	45.32	54	8.68	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		WSE

	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
_	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
	2384	60.61	-8.76	51.85	74	22.15	peak
	2384	55.93	-8.76	47.17	54	6.83	AVG
	2390	63.03	-8.73	54.30	74	19.70	peak
	2390	57.52	-8.73	48.79	54	5.21	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.

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Polarization	Vertical	Test Mode	TX /Mode 3-1Mbps(CH78)
Temperature	<b>20</b> ℃	Relative Humidity	48%
Pressure	1010 hPa		X

	Motor	/W5	Emission	W5//		4W5//
Frequency	Meter Reading	Factor	Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
2483.5	61.57	-8.17	53.40	74	20.60	peak
2483.5	53.41	-8.17	45.24	54	8.76	AVG
	X			X		$\times$
		h			<u> </u>	

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 3-1Mbps(CH78)
	Temperature	<b>20</b> ℃	Relative Humidity	48%
	Pressure	1010 hPa		

١							AVV 574	
	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type	\
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	<b>)</b> ,	
	2483.5	60.09 W	547-8.17	51.925	74	22.08	peak	Y
	2483.5	54.46	-8.17	46.29	54	7.71	AVG	
	/	VSCT	WS		WSET		WSCT	

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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## **Test result for 2Mbps Mode:**

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

Fraguenay	Meter	Factor	Emission	Limits	Morgin	
Frequency	Reading	Factor	Level	LIIIIIIS	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2387	61.07	-8.76	52.31	74	21.69	peak
2387	55.64	-8.76	46.88	54	7.12	AVG
2390	63.13	-8.73	54.40	74	19.60	peak
2390	57.17	-8.73	48.44	54	5.56	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		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	5 (dB)	(dBµV/m)	(dBµV/m)	(dB)	
2384	61.89	-8.76	53.13	74	20.87	peak
2384	56.27	-8.76	47.51	54	6.49	AVG
2390	62.35	-8.73	53.62	74	20.38	peak
2390	56.66	-8.73	47.93	54	6.07	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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/	Polarization	Vertical	Test Mode	TX /Mode3-2Mbps(CH78)
	Temperature	<b>20</b> ℃	Relative Humidity	48%
	Pressure	1010 hPa		X

	Meter	AW5	Emission	AWSLT		4W5L7
Frequency	Reading	Factor	Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	<b>31</b>
2483.5	60.01	-8.17	51.84	74	22.16	peak
2483.5	53.82	-8.17	45.65	54	8.35	AVG
	X			X		$\times$
		h				

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.

			0		
_	Polarization	Horizontal	Test Mode	TX /Mode3-2Mbps(CH78)	7
	Temperature	<b>20</b> ℃	Relative Humidity	48%	
	Pressure	1010 hPa			

١							AVV 574	
	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type	\
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	<b>)</b> ,	
	2483.5	60.09 W	547-8.17	51.925	74	22.08	peak	Y
	2483.5	54.45	-8.17	46.28	54	7.72	AVG	
	/	VSCT	WS		WSET		WSCT	

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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## **Test result for 3Mbps Mode:**

Polarization	Vertical	Test Mode	TX /Model 1-3Mbps(CH0)
Temperature	<b>20</b> ℃	Relative Humidity	48%
Pressure	1010 hPa		

	Meter		Emission	- AWS 41		WSET N
Frequency	Reading	Factor	Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2387	61.45	-8.76	52.69	74	21.31	peak
2387	53.67	-8.76	44.91	54	9.09	AVG
2390	62.38	-8.73	53.65	74	20.35	peak
2390	56.76	-8.73	48.03	54	5.97	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 ℃	Relative Humidity	48%
Pressure	1010 hPa		X

					4 W 5 / /		AUNGII
	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
/	2384	63.73	-8.76	54.975	74	19.03	peak
	2384	54.07	-8.76	45.31	54	8.69	AVG
	2390	62.60	-8.73	53.87	74	20.13	peak
	2390	57.94	-8.73	49.21	54	4.79	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 /Model 3-3Mbps(CH78)
Temperature	<b>20</b> ℃	Relative Humidity	48%
Pressure	1010 hPa		X

	Meter		Emission	MSLT		4W5L7
Frequency	Reading	Factor	Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	31
2483.5	62.07	-8.17	53.90	74	20.10	peak
2483.5	54.04	-8.17	45.87	54	8.13	AVG
	X	>		X		$\times$
		600			<u> </u>	

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

	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type	
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	,	1
_	2483.5	63.22	-8.17	55.05	74	18.95	peak	Ľ
	2483.5	54.99	-8.17	46.82	54	7.18	AVG	
7	V	VSET"	W5	<i>[7</i>	W5ET		WSET"	

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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## Test result for hopping mode:

Polarization	Vertical 5/17	Test Mode	hopping mode-1Mbps
Temperature	<b>20</b> ℃	Relative Humidity	48%
Pressure	1010 hPa		X

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2387	60.59	-8.76	51.83	74	22.17	peak
2387	55.67	-8.76	46.91	54	7.09	AVG
2390	63.32	-8.73	54.59	74	19.41	peak
2390	57.53	-8.73	48.80	54	5.20	AVG
	(MHz) 2387 2387 2390	Frequency         Reading           (MHz)         (dBμV)           2387         60.59           2387         55.67           2390         63.32	Frequency         Reading         Factor           (MHz)         (dBμV)         (dB)           2387         60.59         -8.76           2387         55.67         -8.76           2390         63.32         -8.73	Frequency         Reading         Factor         Level           (MHz)         (dBμV)         (dB)         (dBμV/m)           2387         60.59         -8.76         51.83           2387         55.67         -8.76         46.91           2390         63.32         -8.73         54.59	Frequency         Reading         Factor         Level         Limits           (MHz)         (dBμV)         (dB)         (dBμV/m)         (dBμV/m)           2387         60.59         -8.76         51.83         74           2387         55.67         -8.76         46.91         54           2390         63.32         -8.73         54.59         74	Frequency         Reading         Factor         Level         Limits         Margin           (MHz)         (dBμV)         (dB)         (dBμV/m)         (dBμV/m)         (dBμV/m)         (dB)           2387         60.59         -8.76         51.83         74         22.17           2387         55.67         -8.76         46.91         54         7.09           2390         63.32         -8.73         54.59         74         19.41

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	<b>20</b> ℃	Relative Humidity	48%
Pressure	1010 hPa		$\times$

-		Meter		Emission	-AWSLT		4W5L7
	Frequency	Reading	Factor	Level	Limits	Margin	Detector
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
	2387	62.23	-8.76	53.47	74	20.53	peak
	2387	53.54	-8.76	44.78	54	9.22	AVG
	2390	63.70	-8.73	54.97	74	19.03	peak
	2390	57.72	-8.73	48.99	54	5.01	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	Hopping mode-1Mbps
	Temperature	<b>20</b> ℃	Relative Humidity	48%
	Pressure	1010 hPa		X

_		Meter	W5	Emission	WSLT		AWSET N
	Frequency	Reading	Factor	Level	Limits	Margin	Detector Type
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	<b>71</b>
	2483.5	60.65	-8.17	52.48	74	21.52	peak
	2483.5	53.44	-8.17	45.27	54	8.73	AVG
		X	$\rightarrow$		X		$\times$
	4		600			<u> </u>	

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.

1	MELT	WELL	199		WELL
F	Polarization	Horizontal		Test Mode	Hopping mode-1Mbps
Т	emperature	20 ℃	X	Relative Humidity	48%
F	Pressure	1010 hPa			

			7				
	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
_	2483.5	64.30	-8.17	56.13	74	17.87	peak
	2483.5	54.01	-8.17	45.84	54	8.16	AVG
1		VSET N	W5	ET .	WSET		WSET

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.

WSET WSET WSET

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## 5. NUMBER OF HOPPING CHANNEL

### **5.1 APPLIED PROCEDURES / LIMIT**

FCC Part15 (15.247) , Subpart C					
Section 577	Test Item	Frequency Range (MHz)	Result		
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.

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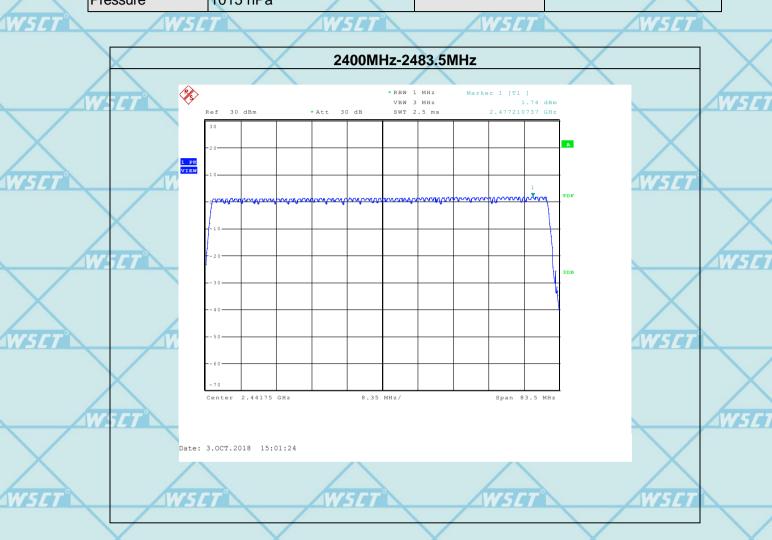
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**5.2 TEST RESULTS** 

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Number of	79 WSET N	Test Mode	Hopping Mode	V
Hopping Channel		TEST MODE	riopping wode	
Temperature	<b>25</b> ℃	Relative Humidity	60%	
Pressure	1015 hPa			



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## 6. AVERAGE TIME OF OCCUPANCY

### **6.1 APPLIED PROCEDURES / LIMIT**

ı	APPLIED PROCED	UKES / LIMIT			www.wsct-cert	rt.com	
	FCC Part15 (15.247), Subpart C						
1						151	
	Section	Test Item	Limit	Frequency Range (MHz)	Result		
	15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS		

### **6.1.2 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 DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. DH1 Dwell time = Pulse time\*(1600/2/79)\*31.6S
  - DH3 Dwell time = Pulse time\*(1600/4/79)\*31.6S
  - DH5 Dwell time = Pulse time\*(1600/6/79)\*31.6S

#### 6.1.3 DEVIATION FROM STANDARD

No deviation.

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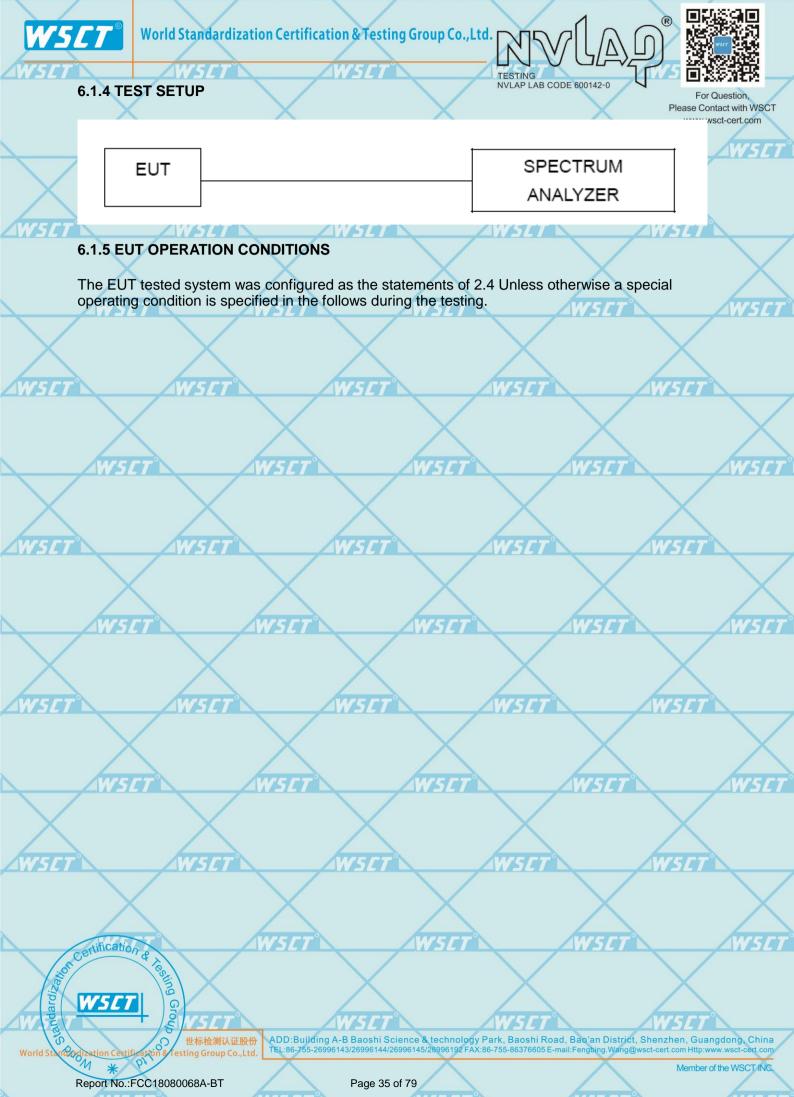
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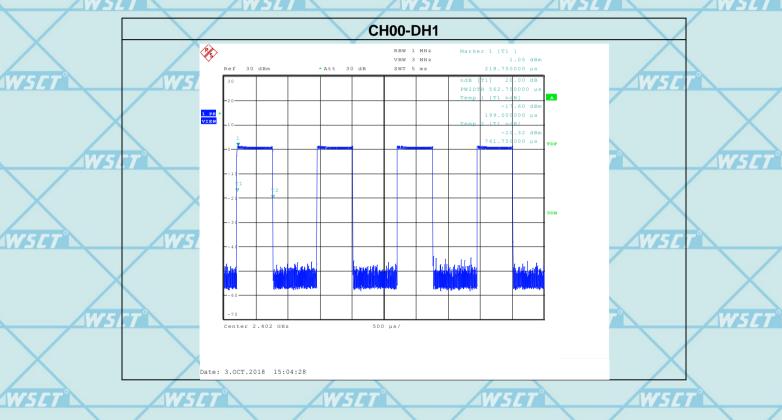
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### **6.2 TEST RESULTS**

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

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

Data Packet	Frequency	Pulse time(ms)	Dwell Time(S)	Limits (S)
DH1	2402MHz	0.563	0.180	0.4
DH1	2441MHz	0.563	0.180	0.4
DH1	2480MHz	0.563	0.180	0.4

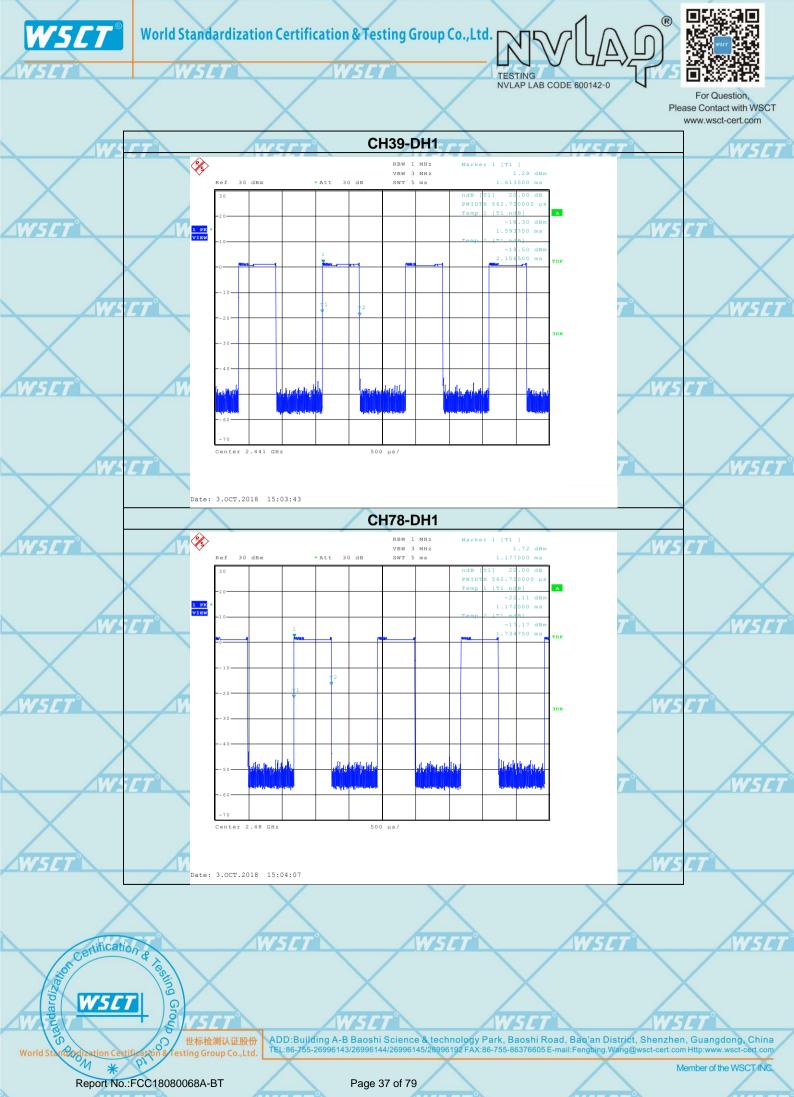




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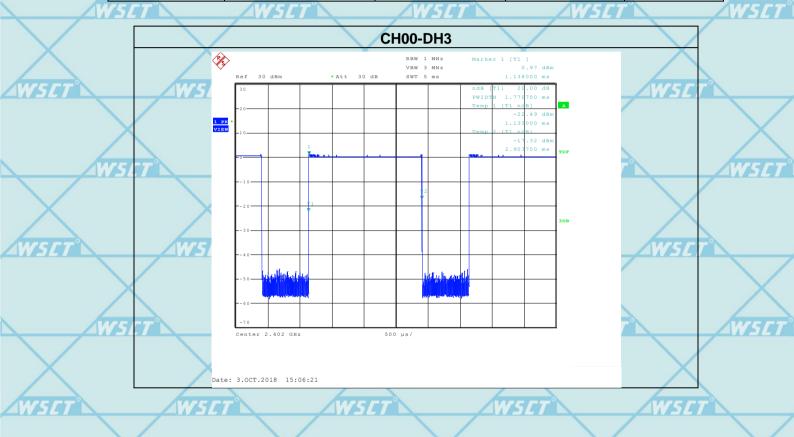




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,	Pressure	1012 hPa	Test Mode	DH3-1Mbps	75 F
	Temperature	<b>25</b> ℃	Relative Humidity	60%	

Data Packet	Frequency	Pulse time(ms)	Dwell Time(S)	Limits (S)
DH3	2402MHz	1.771	0.283	0.4
DH3	2441MHz	1.771	0.283	0.4
DH3	2480MHz	1.771	0.283	0.4



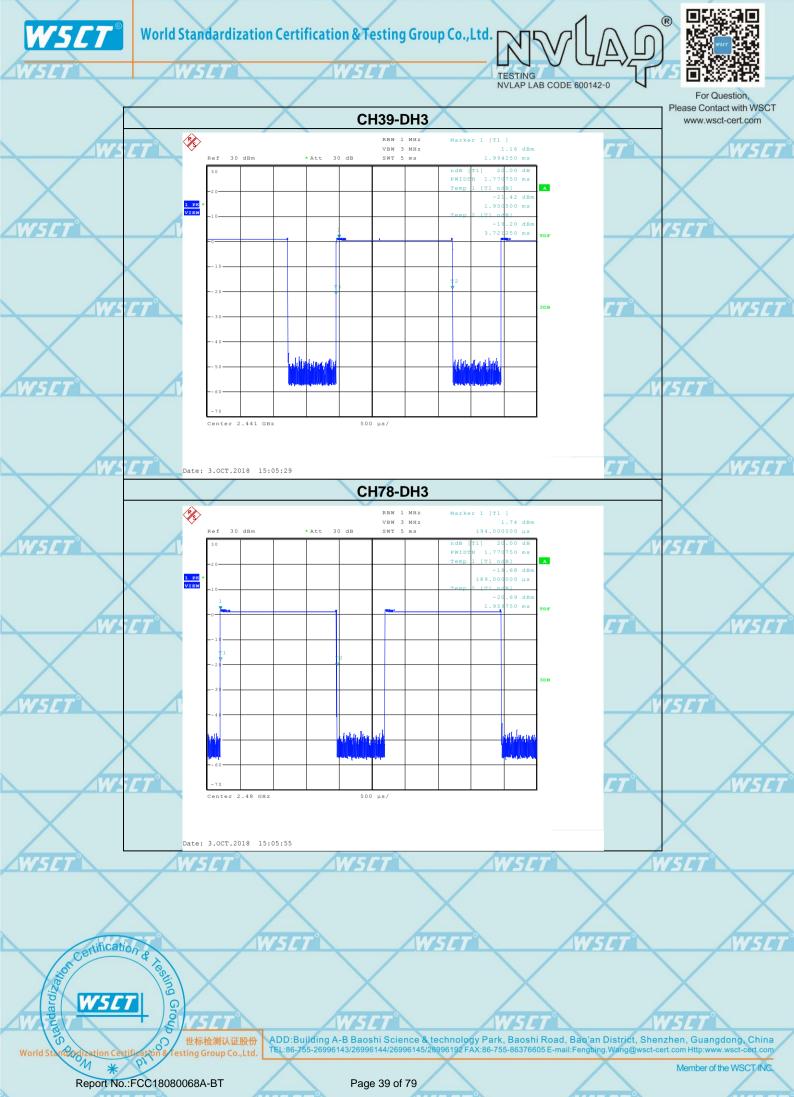


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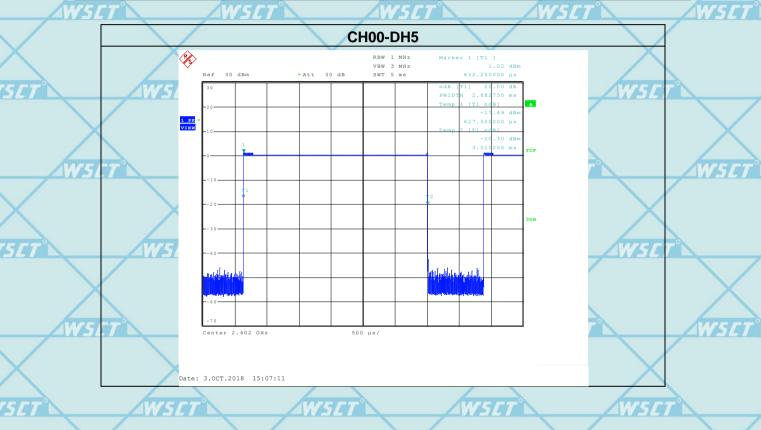




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	Pressure	1012 hPa	Test Mode	DH5-1Mbps	75.F
-	Temperature	<b>25</b> ℃	Relative Humidity	60%	

Data Packet	Frequency	requency Pulse time(ms) D		Limits (S)
DH5	2402MHz	2.883	0.308	0.4
DH5	2441MHz	2.883	0.308	0.4
DH5	2480MHz	2.883	0.308	0.4



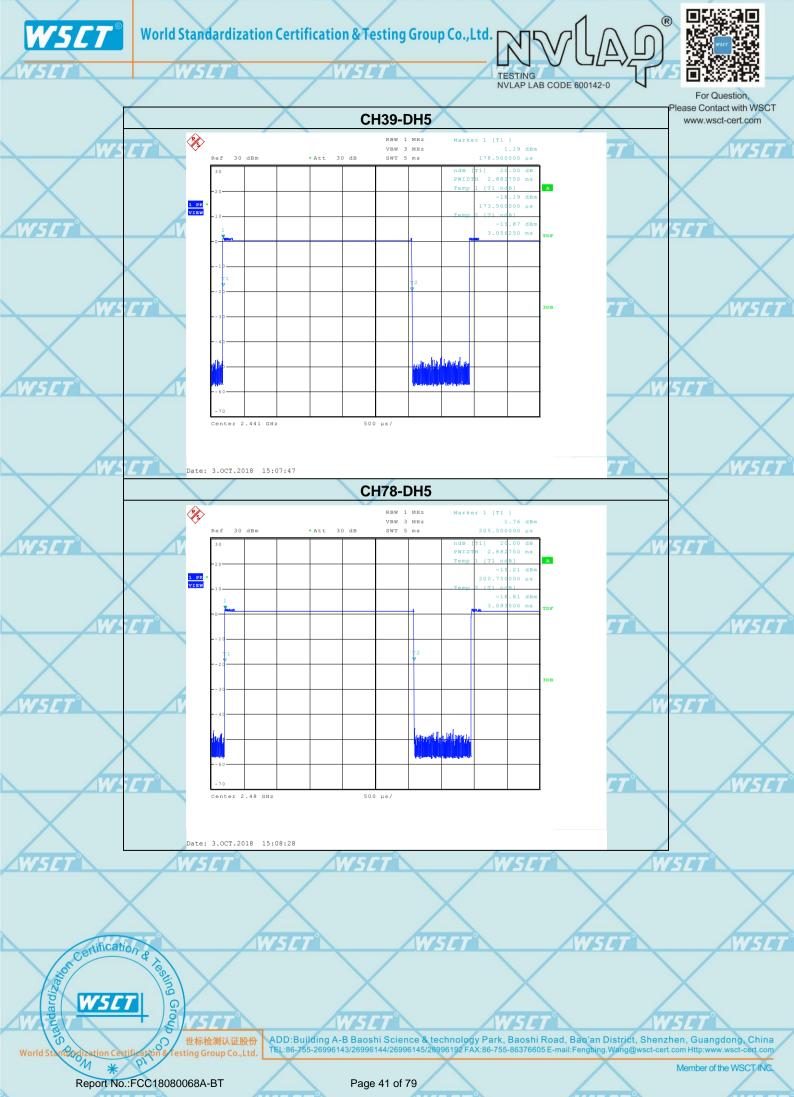


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## 6. HOPPING CHANNEL SEPARATION MEASUREMENT

#### **6.1 APPLIED PROCEDURES / LIMIT**

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hopping

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	W5CT Auto_CT W5CT
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span
VB	Video (or Average) Bandwidth (VBW) ≥ RBW
Detector	Peak
Trace	Max hold
Sweep Time	Auto

#### **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
EUI	
	ANALYZER

#### **6.1.5 EUT OPERATION CONDITIONS**

The EUT was programmed to be in continuously transmitting mode.

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## **6.2 TEST RESULTS**

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4	Pressure	1012 hPa [7]		CH00 / CH39 /CH78 (1Mbps Mode)	7
	Temperature	<b>25</b> ℃	Relative Humidity	60%	
	Test Result	Pass			

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

Note: 20db bandwidth refer to section9.6



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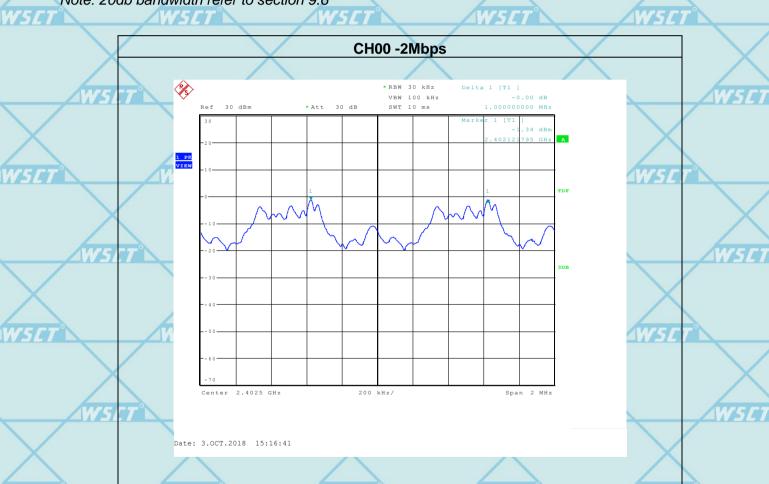


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4	Pressure	1012 hPa 7		CH00 / CH39 /CH78 (2Mbps Mode)
	Temperature	<b>25</b> ℃	Relative Humidity	60%
	Test Result	Pass		

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

Note: 20db bandwidth refer to section 9.6



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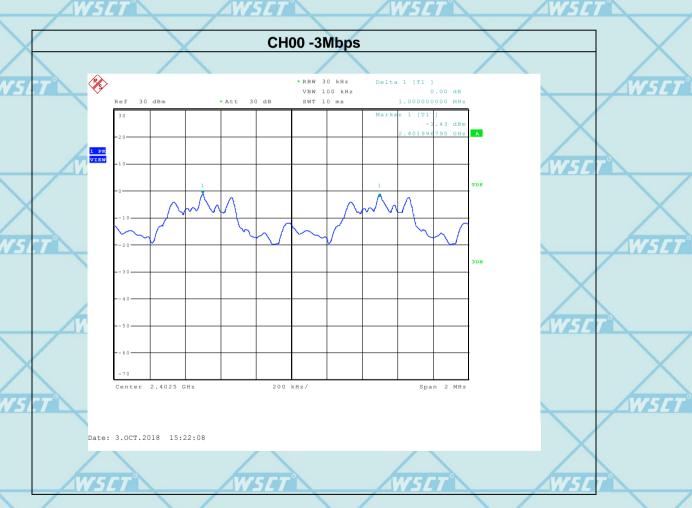


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_	Pressure	1012 hPa		CH00 / CH39 /CH78 (3Mbps Mode)	V
	Temperature	<b>25</b> ℃	Relative Humidity	60%	
	Test Result	Pass			

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

Note: 20db bandwidth refer to section 9.6





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## 7. BANDWIDTH TEST

## 7.1 APPLIED PROCEDURES / LIMIT

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
	Attenuation	Auto
	Span Frequency	> Measurement Bandwidth or Channel Separation
	RB	30kHz
_	VB	100 kHz
	Detector	Peak
	Trace	Max hold
	Sweep Time	Auto
	Wall	MSU WSU

### 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.
- 2. Set the spectrum analyzer as follows: VBW =30kHz, RBW=100kHz, Sweep = auto Detector function = peak ,Trace = max hold
- 3 Measure the highest amplitude appearing on spectral display and record the level to calculate
- 4. Repeat above procedures until all frequencies measured were complete.

## 7.1.3 DEVIATION FROM STANDARD

No deviation.

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## 7.1.4 TEST SETUP

SPECTRUM **EUT** 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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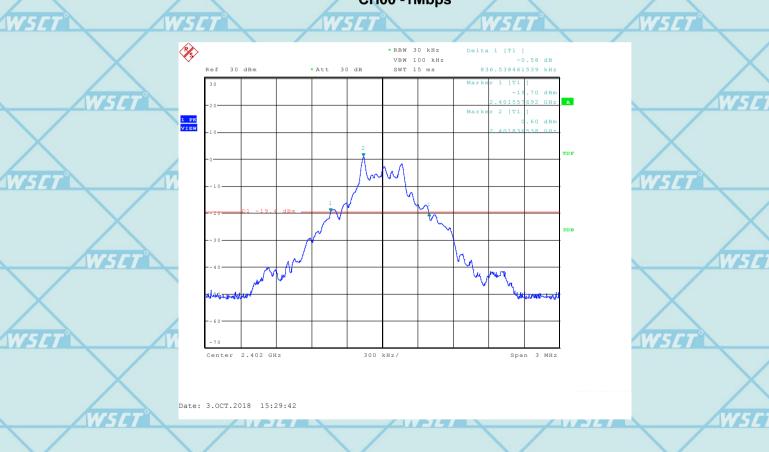
## 7.2 TEST RESULTS

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

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

1	Frequency	20dB Bandwidth (kHz)	75ET Result WSET
	2402 MHz	837	PASS
	2441 MHz	841	PASS
	2480 MHz	827	PASS

## CH00 -1Mbps



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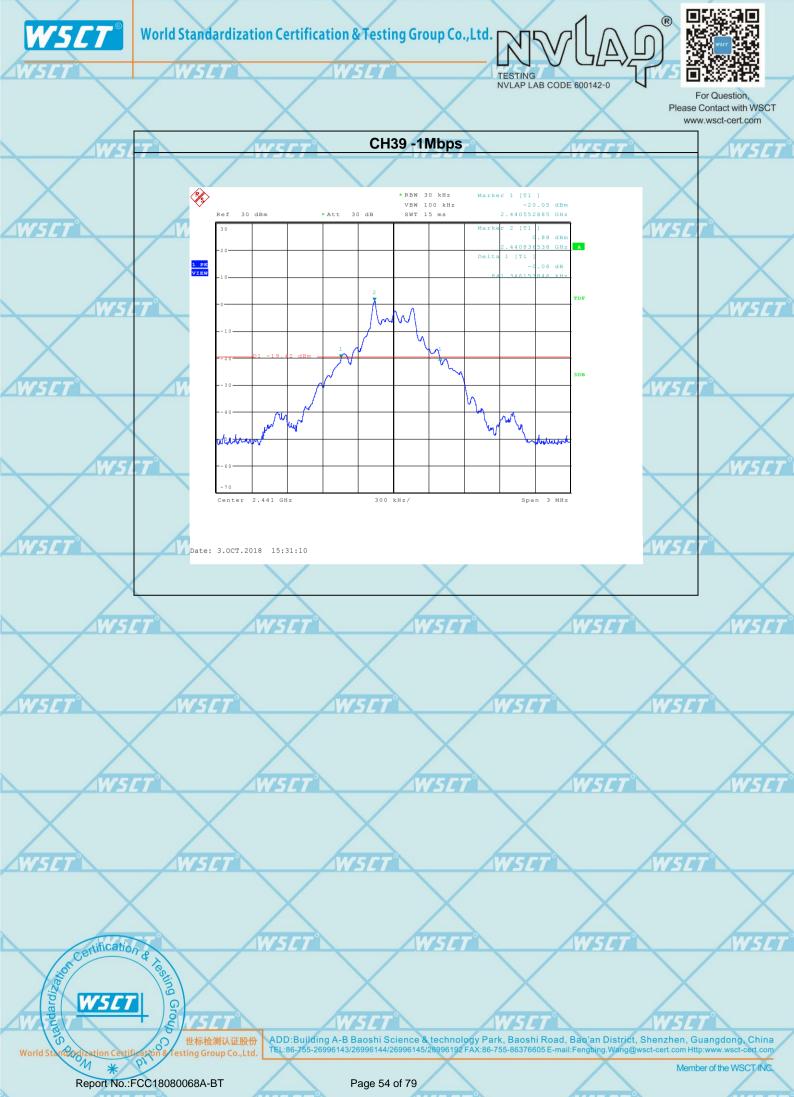
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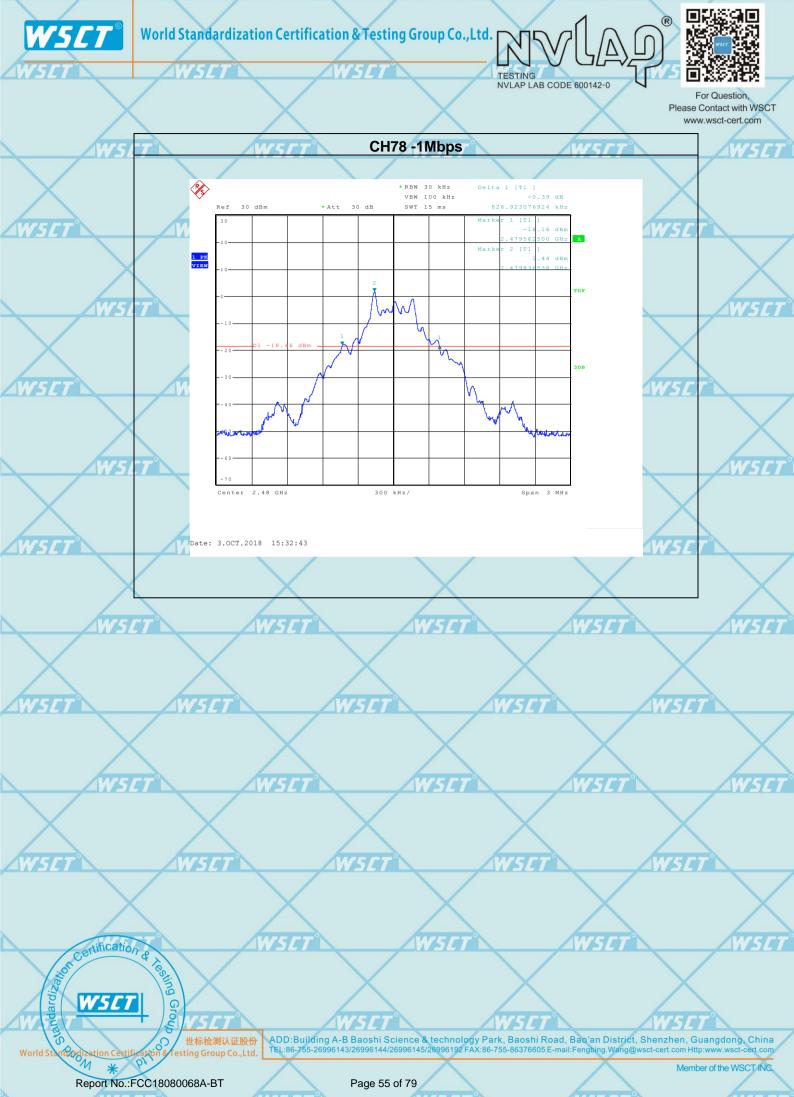
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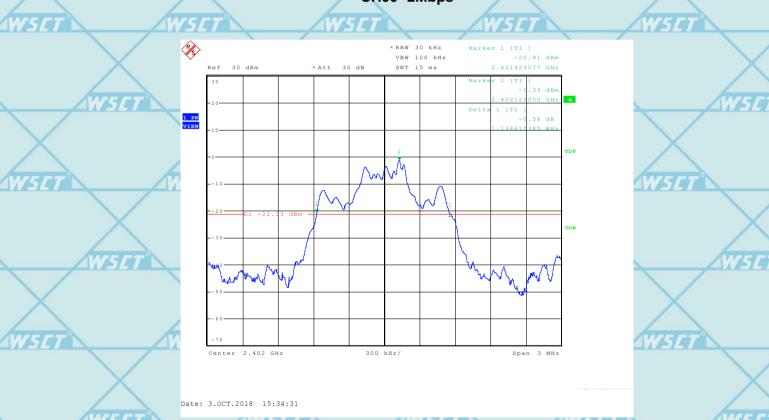
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Note: the worst case is DH5as result in this part.

1	Pressure	1012 hPa	Test Mode	CH00/CH39/C78(2Mbps)
	Temperature	<b>25</b> ℃	Relative Humidity	60%

/	Frequency	20dB Bandwidth (kHz)	VSCT Result WSCT	
	2402 MHz	1135	PASS	1
0.0	2441 MHz	1149	PASS	/
	2480 MHz W557	1149	PASS	V

## CH00 -2Mbps



WSET WSET WSET WSET WSET

VSET WSET

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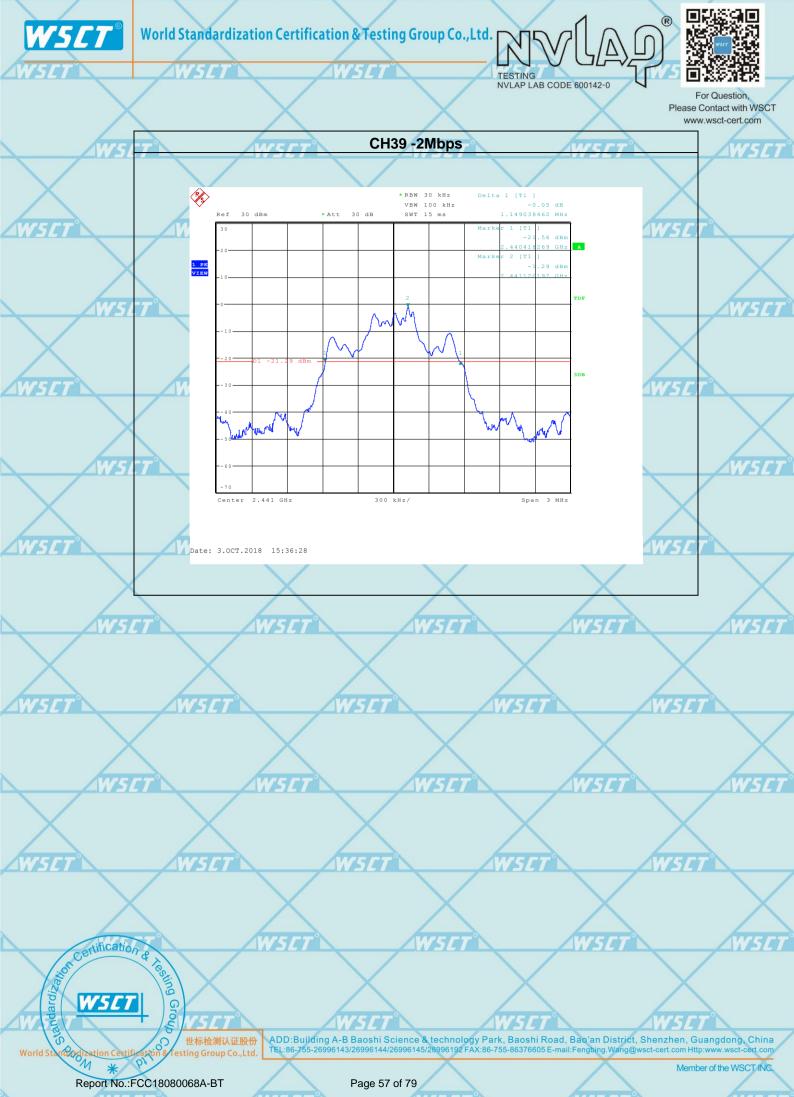
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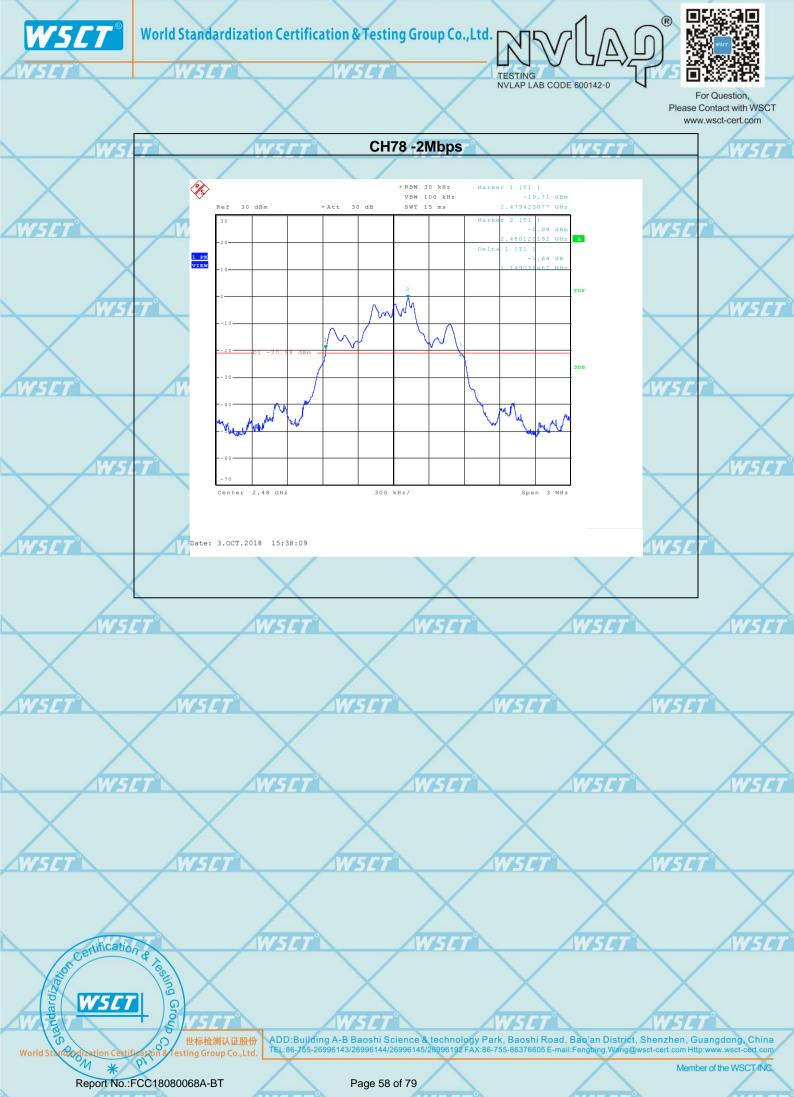
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Note: the worst case is DH5as result in this part.

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

1	Frequency	20dB Bandwidth (kHz)	75ET Result W5ET	
	2402 MHz	1144	PASS	1
00	2441 MHz	1149	PASS	/
	2480 MHz W567	1154	PASS	Y

## CH00 -3Mbps

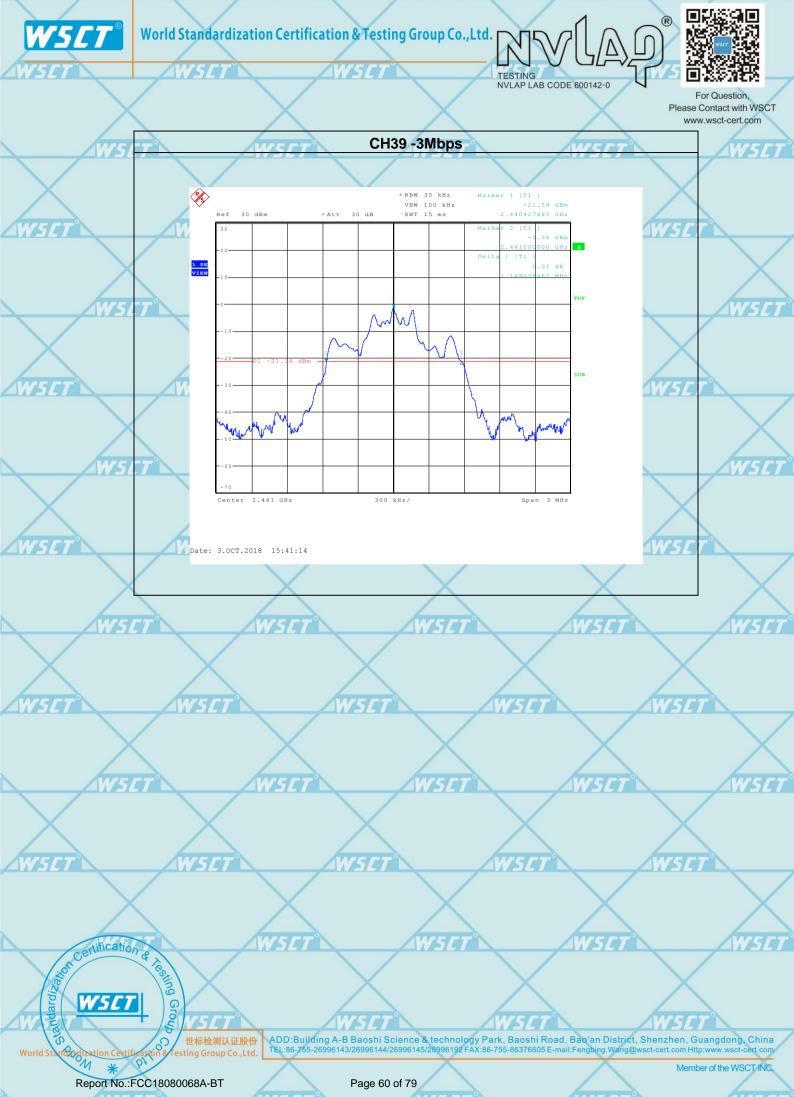


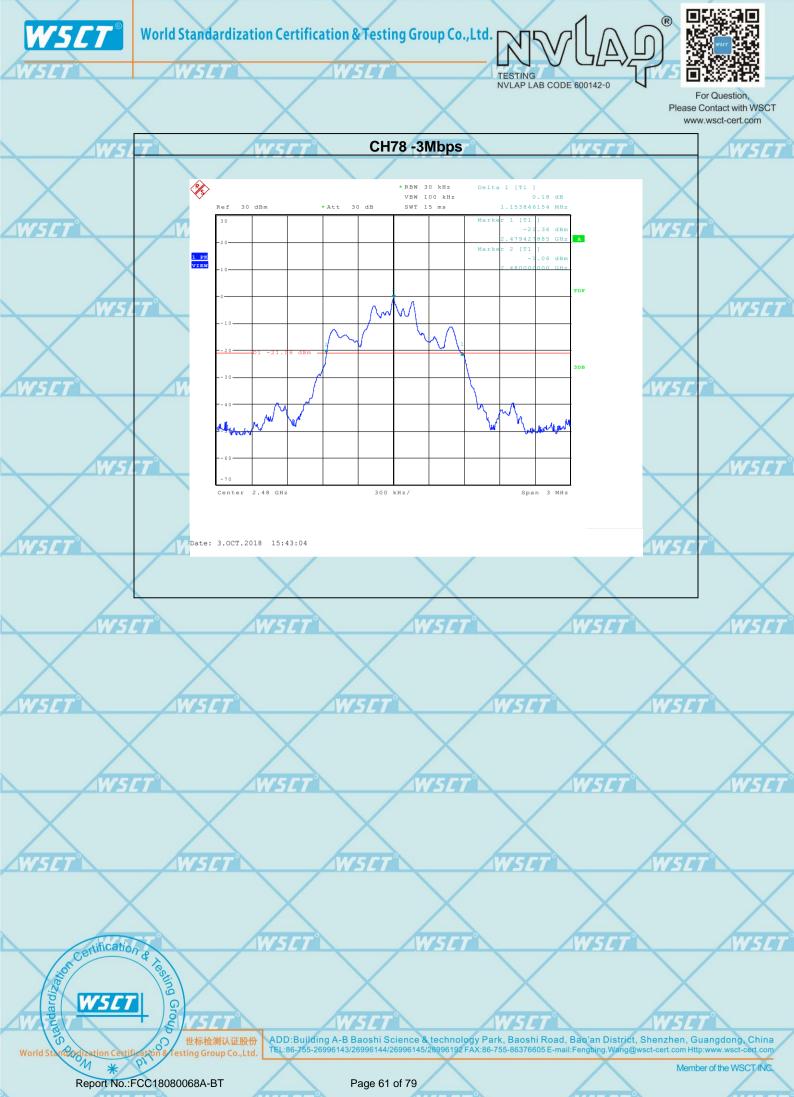
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## 8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

	APPLIED PROCED	UKES / LIMIT			www.wsct-ce	ert.com
	FCC Part15 (15.247), Subpart C					
4	NDL/ N	AWALIA	41136	- Francisco Deserv		N51
	Section	Test Item	Limit	Frequency Range (MHz)	Result	
	15.247 (b)(i)	Peak Output Power	1W for 1Mbps 0.125Wfor2/3Mbps	2400-2483.5	PASS	

#### **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 ≥ approximately 3 times the 20 dB bandwidth, centered on a hop ping channel

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

### 8.1.3 DEVIATION FROM STANDARD

No deviation.

### 8.1.4 TEST SETUP

EUT	Spectrum
	 analyzer

### **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.

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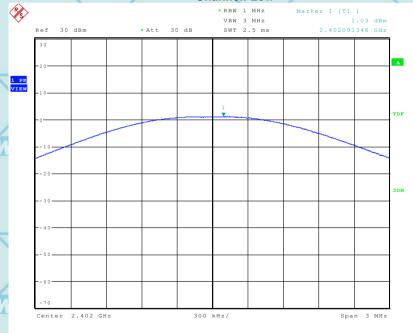
## **8.2 TEST RESULTS**

For Question,
Please Contact with WSCT

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	1.03	30	Pass
CH39	2441	1.29	30 W57	Pass
CH78	2480	1.94	30	Pass
X		2Mbps	X	X
CH00	2402	0.34	20.97	Pass
CH39	2441	0.51	20.97	Pass
CH78	2480	0.99	20.97	Pass
	3Mbps			
W5/CH00	2402	0.36	20.97 <i>N5L</i>	Pass
CH39	2441	0.51	20.97	Pass
CH78	2480	1.01	20.97	Pass

1Mbps Channel: Low



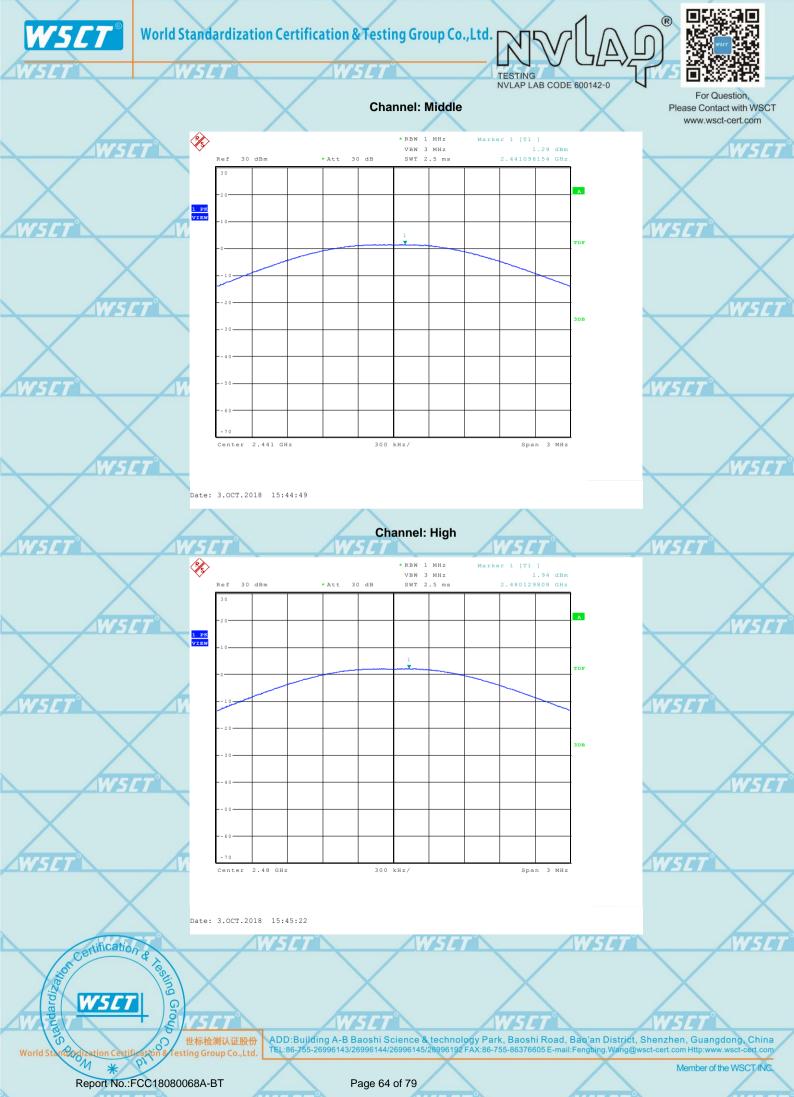
Date: 3.OCT.2018 15:44:18

世标检测认证股份

ADD:Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26996143/26996144/26996145/26996192 FAX:86-755-86376605 E-mail:Fengbing.Wang@wsct-cert.com Http://www.wsct-cert.com

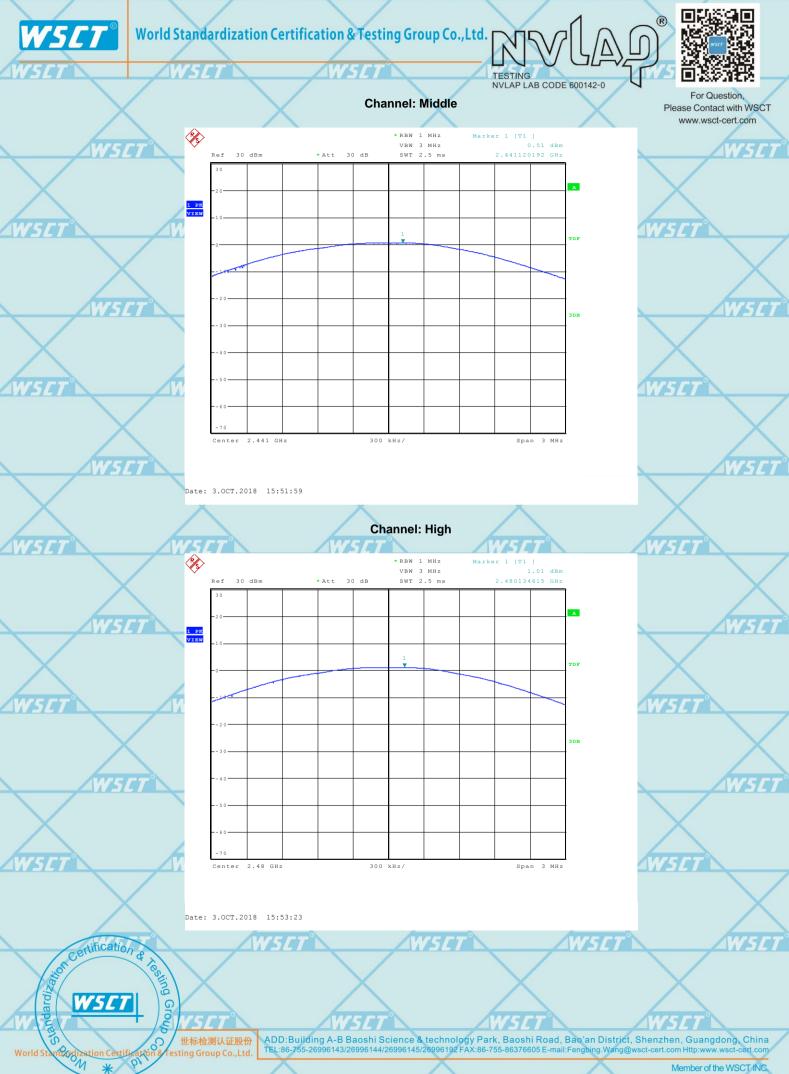
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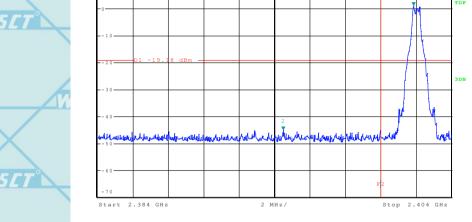
For Question,
Please Contact with WSCT
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# 9. 100KHZ BAND EDGES MEASUREMENT

9.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C					
Section 5 7 Test Item V5 7 Limit			Frequency Range (MHz)	Result		
15.247(d)	Band Edges Measurement	(20dB bandwidth)	2400-2483.5	PASS		
WELL	WELL	1Mbps	WELL			





Date: 3.0CT.2018 17:03:20

WSET WSET WSET WSET

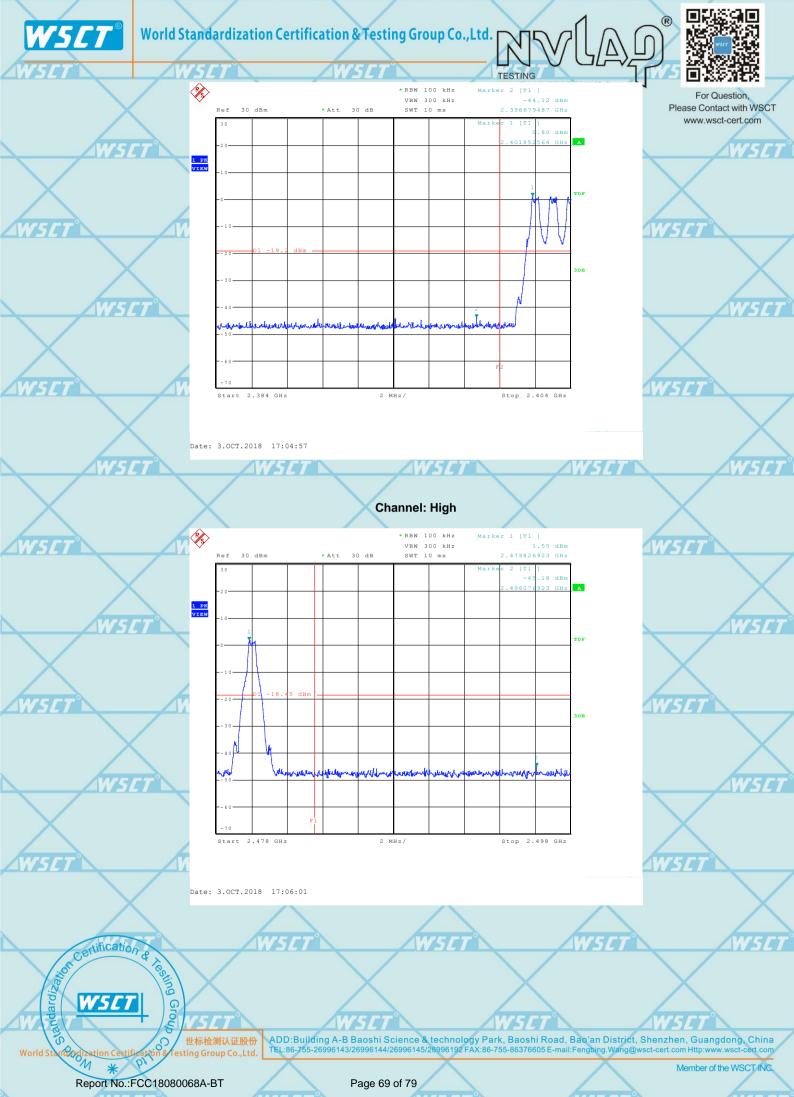
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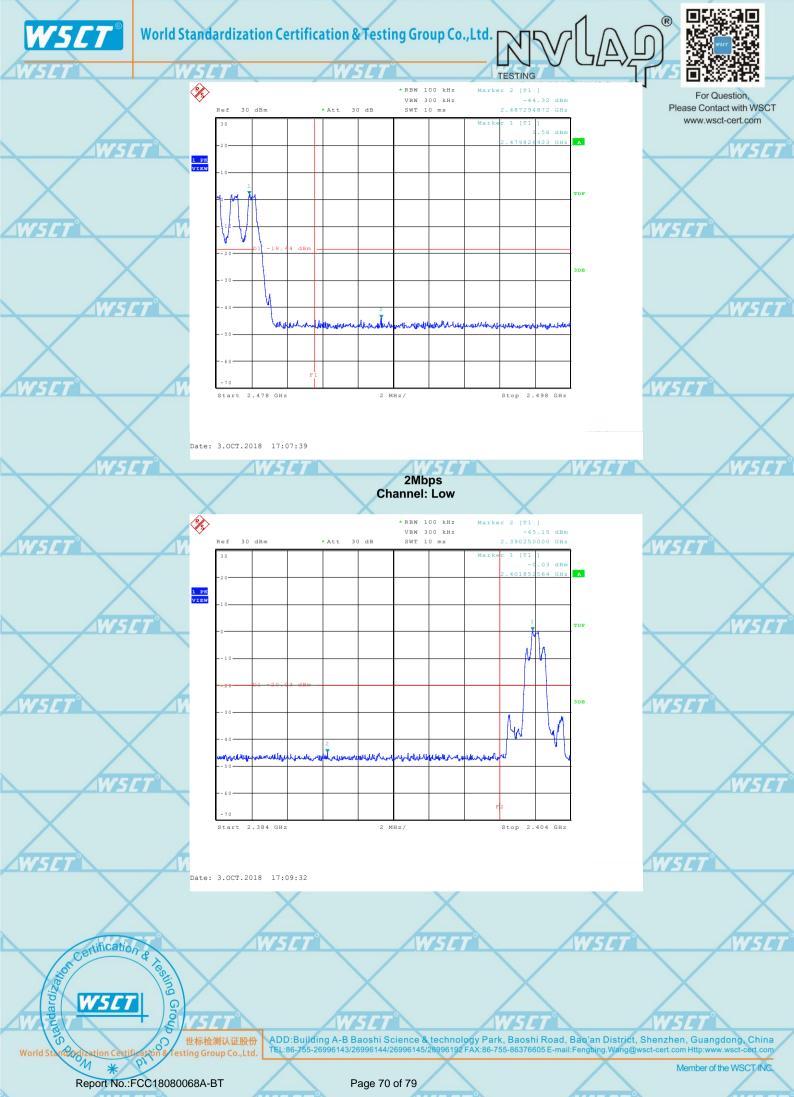
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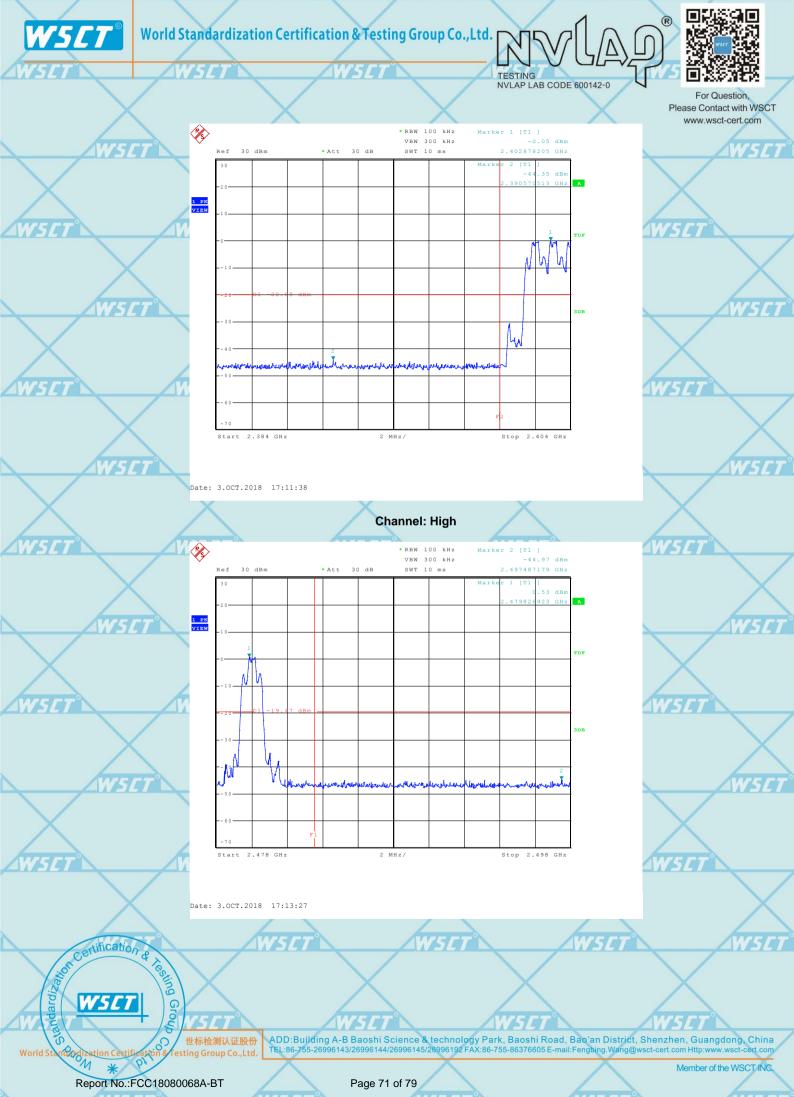
世标检测认证股份
ADD:Building A-B Baoshi Science & technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China
TEL:86-755-26996143/26996144/26996145/28996192 FAX:86-755-86376605 E-mail:Fengbing.Wang@wsct-cert.com

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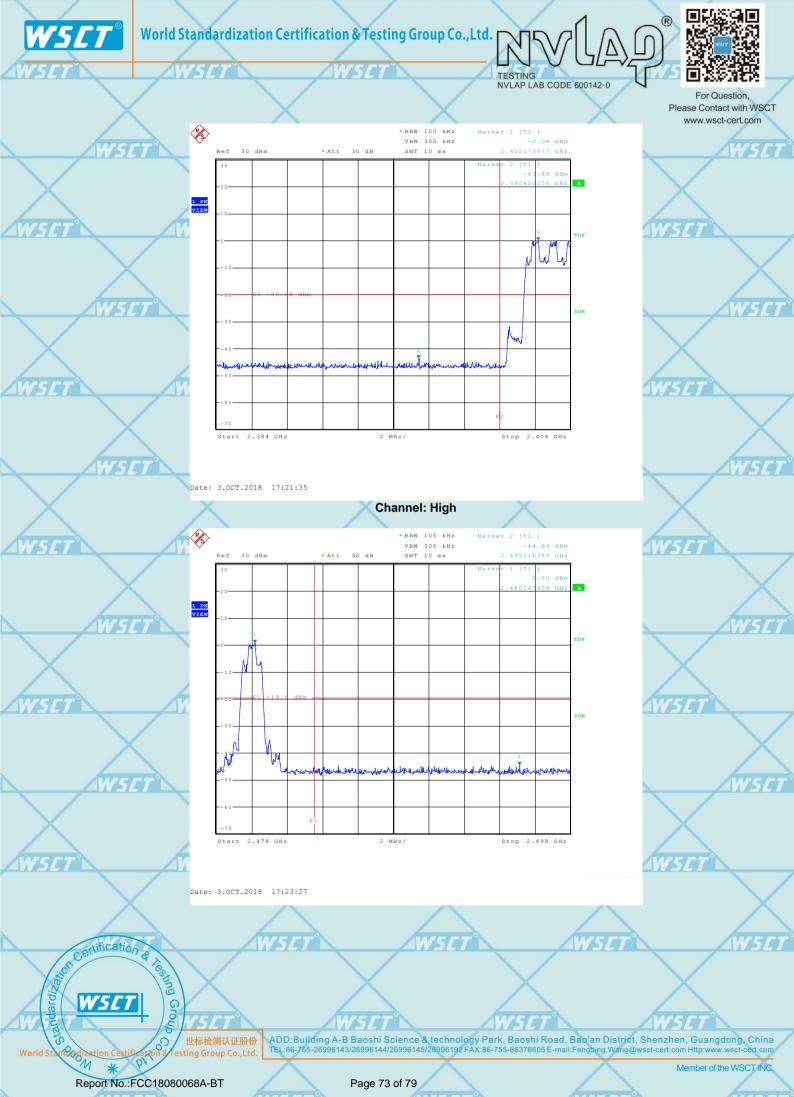
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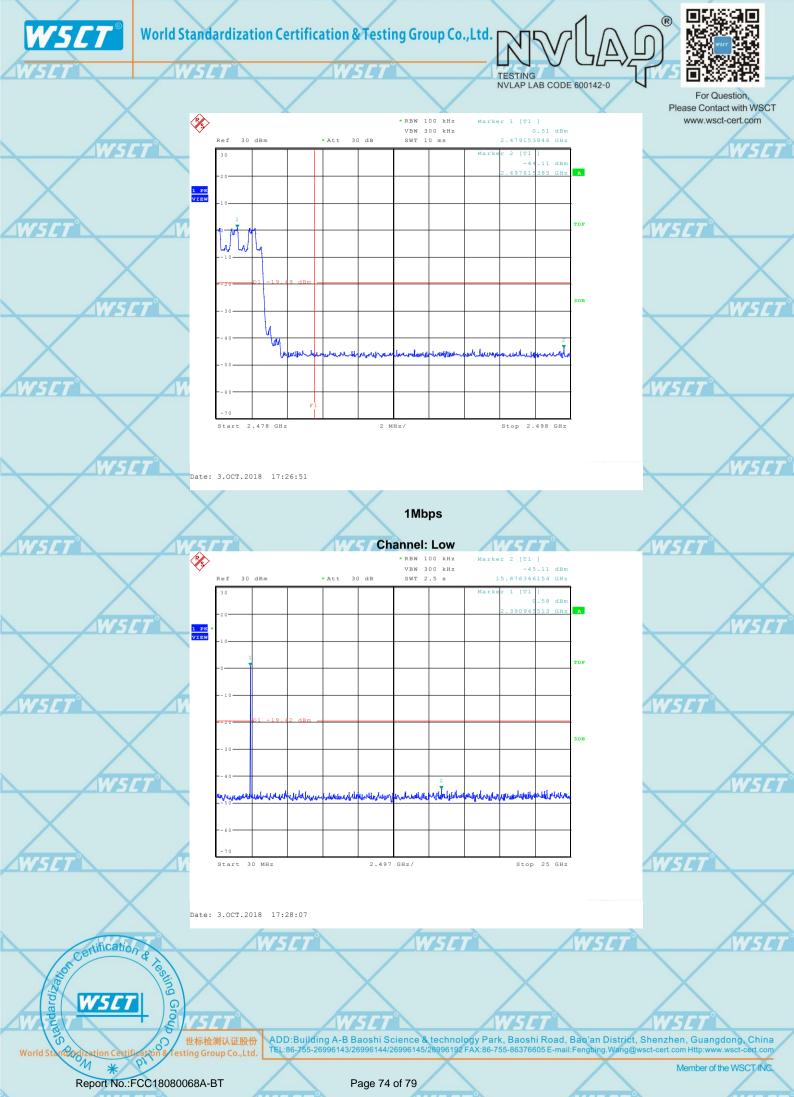




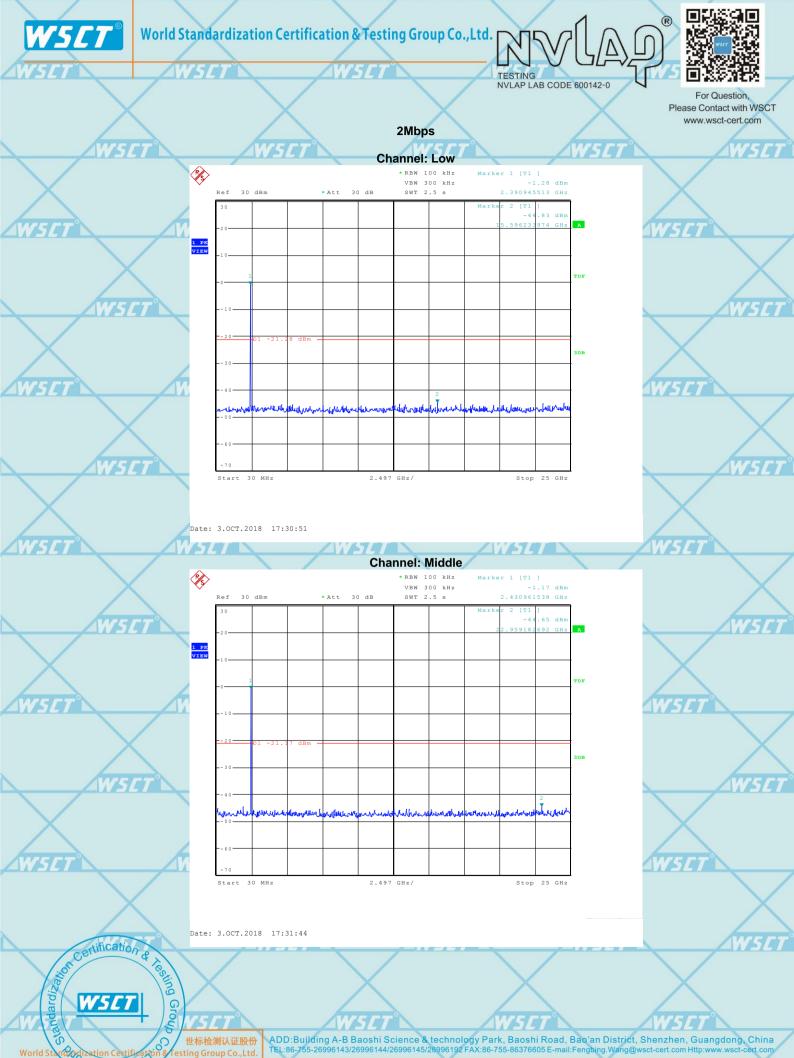




















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## 10. ANTENNA APPLICATION

## **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 integrated on PCB, The antenna's gain is 1.26dBi and meets the requirement.

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---END OF REPORT---

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