

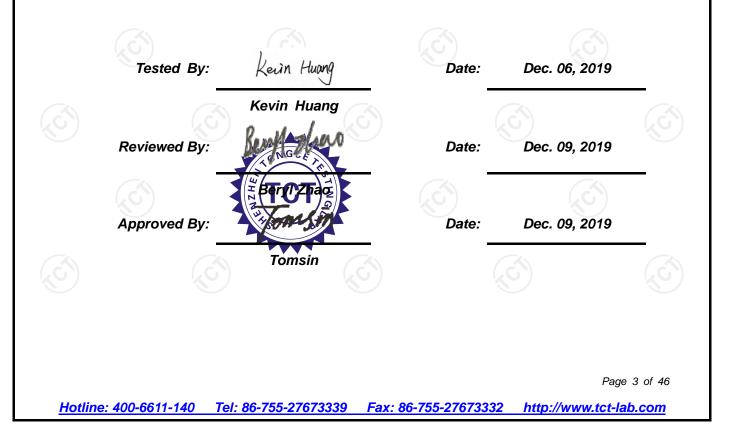
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TCT通测检测 1. Test Certification

Product:	Hearing Amplifier & TV Listener					
Model No.:	BW20					
Additional Model No.:	BW21, BW30, BW32, BW62, teleband20, teleband30					
Trade Mark:	N/A					
Applicant:	Xiamen New Sound Technology Co,. Ltd					
Address:	No.13 of Xiang yue Road, Torch Hi-Tech Industrial, Development Zone, Xiang An District, Xiamen, China					
Manufacturer:	Xiamen New Sound Technology Co,. Ltd					
Address:	No.13 of Xiang yue Road, Torch Hi-Tech Industrial, Development Zone, Xiang An District, Xiamen, China					
Date of Test:	Jul. 11, 2019 – Dec. 06, 2019					
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247 FCC KDB 558074 D01 15.247 Meas Guidance v05r02 ANSI C63.10:2013	C C				

The above equipment has been tested by Shenzhen Tongce Testing Lab. 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.





2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
AC Power Line Conducted Emission	§15.207	PASS
Conducted Peak Output Power	§15.247 (b)(3)	PASS
6dB Emission Bandwidth	§15.247 (a)(2)	PASS
Power Spectral Density	§15.247 (e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS

Note:

1. PASS: Test item meets the requirement.

2. Fail: Test item does not meet the requirement.

3. N/A: Test case does not apply to the test object.

4. The test result judgment is decided by the limit of test standard.

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3. EUT Description

Product:	Hearing Amplifier & TV Listener
Model No.:	BW20
Additional Model No.:	BW21, BW30, BW32, BW62, teleband20, teleband30
Trade Mark:	N/A
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Antenna Type:	Ceramic Antenna
Antenna Gain:	0.5dBi
Power Supply:	Rechargeable Li-ion Battery DC 3.7V
AC adapter:	Adapter Information: MODEL: GS-0500100 INPUT: AC 100-240V, 50/60Hz, 0.15A Max OUTPUT: DC 5V, 1A
Remark:	All models above are identical in interior structure, electrical circuits and components, just model appearances are different for the marketing requirement.

Operation Frequency each of channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
····	(X	(×	/	X	
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Remark:	Channel 0, 1	9 & 39 ha	ave been tes	sted.		· · · · · ·	

4. General Information

4.1. Test environment and mode

Operating Environment:			
Condition	Conducted Emission	Radiated Emission	
Temperature:	25.0 °C	25.0 °C	
Humidity:	55 % RH	55 % RH	
Atmospheric Pressure:	1010 mbar	1010 mbar	

Test Mode:

Engineering mode:	Keep the EUT in continuous transmitting by select
	channel and modulations with Fully-charged battery

The sample was placed 0.8m & 1.5m for the measurement below & above 1GHz above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case(Z axis) are shown in Test Results of the following pages.

4.2. Description of Support Units

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.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
1	1		5) /	$\langle c \rangle$

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.

2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

5. Facilities and Accreditations

5.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC Registration No.: 645098
 - Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

• IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

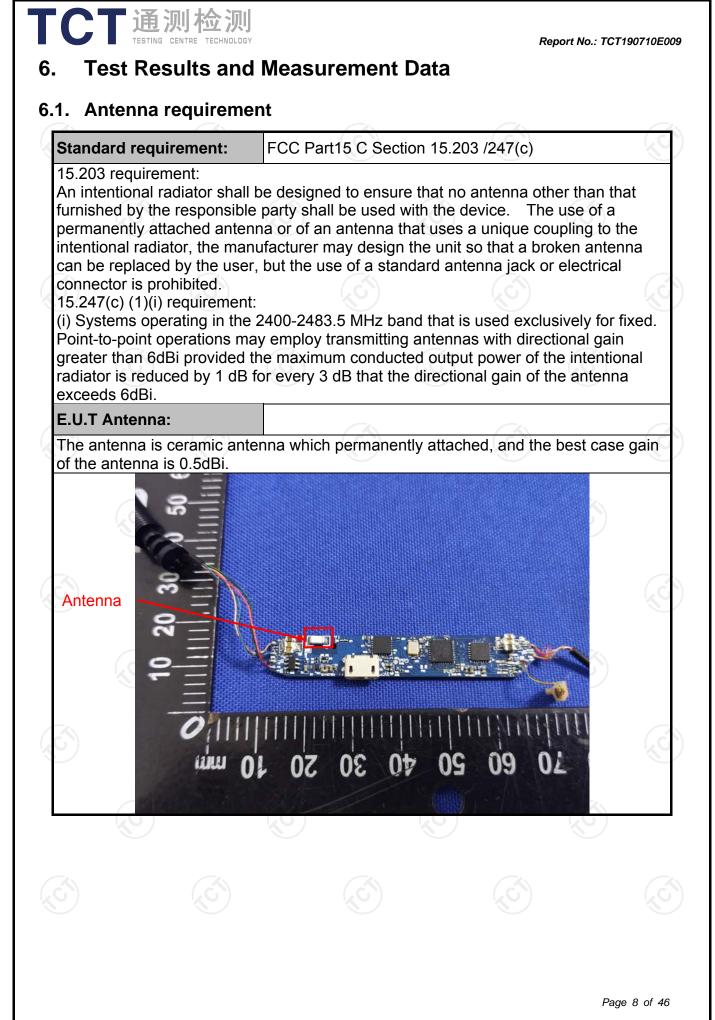
Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

5.3. Measurement Uncertainty

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

No.	Item	MU
1	Conducted Emission	±2.56dB
2	RF power, conducted	±0.12dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.92dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%
1	Trainiary	11.078



6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section	15.207	No.		
Test Method:	ANSI C63.10:2013				
Frequency Range:	150 kHz to 30 MHz	(C ¹)	(\mathcal{C})		
Receiver setup:	ver setup: RBW=9 kHz, VBW=30 kHz, Sweep time=auto				
	Frequency range	Limit (d	dBuV)		
	(MHz)	Quasi-peak	Áverage		
Limits:	0.15-0.5	66 to 56*	56 to 46*		
	0.5-5	56	46		
	5-30	60	50		
	Refere	nce Plane			
Test Setup:	E.U.T Adap Test table/Insulation pla Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m	ne	ter — AC power		
Test Mode:	Charging + Transmittir	ng Mode			
	1. The E.U.T is conne impedance stabiliz provides a 500hm/s measuring equipme	zation network 50uH coupling im	(L.I.S.N.). This		
Test Procedure:	 2. The peripheral device power through a Licoupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interference mission, the relative the interface cables ANSI C63 10: 2013. 	ISN that provides with 50ohm term diagram of the line are checkence. In order to fir e positions of equ s must be chang	a 50ohm/50ul- nination. (Please test setup and d for maximun d the maximun ipment and all o ed according to		
Test Procedure: Test Result:	 power through a Ll coupling impedance refer to the block photographs). 3. Both sides of A.C. conducted interference mission, the relative 	ISN that provides with 50ohm term diagram of the line are checkence. In order to fir e positions of equ s must be chang	a 50ohm/50ul- nination. (Please test setup and d for maximum d the maximum ipment and all o ed according to		

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6.2.2. Test Instruments

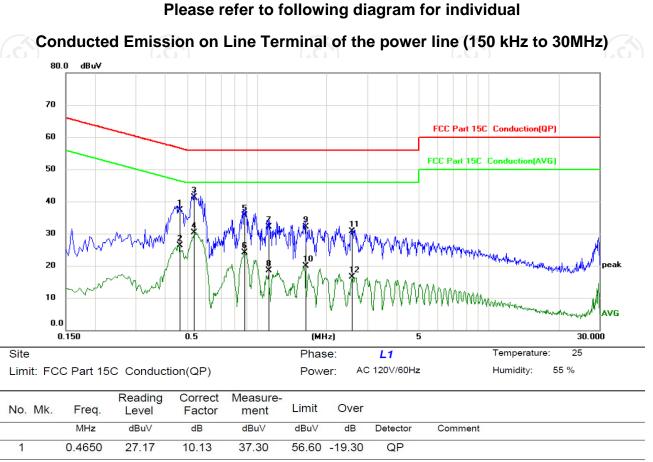
Cond	lucted Emission	Shielding R	oom Test Site (8	43)
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	R&S	ESPI	101402	Jul. 29, 2020
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 11, 2020
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 08, 2020
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.2.3. Test data

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1	0.4650	27.17	10.13	37.30	56.60 -19.30	QP
2	0.4650	16.17	10.13	26.30	46.60 -20.30	AVG
3 *	0.5370	31.18	10.13	41.31	56.00 -14.69	QP
4	0.5370	20.24	10.13	30.37	46.00 -15.63	AVG
5	0.8835	25.51	10.12	35.63	56.00 -20.37	QP
6	0.8835	13.91	10.12	24.03	46.00 -21.97	AVG
7	1.1174	22.08	10.12	32.20	56.00 -23.80	QP
8	1.1174	8.34	10.12	18.46	46.00 -27.54	AVG
9	1.6215	21.99	10.12	32.11	56.00 -23.89	QP
10	1.6215	9.82	10.12	19.94	46.00 -26.06	AVG
11	2.5800	20.67	10.12	30.79	56.00 -25.21	QP
12	2.5800	6.30	10.12	16.42	46.00 -29.58	AVG

Note:

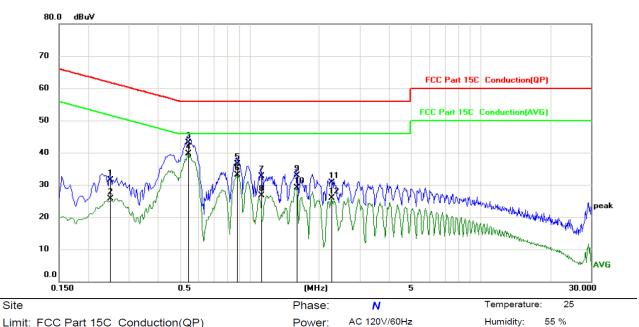
Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = LISN factor + Cable loss Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Maggurgement $(dB\mu V)$ = Limite $(dB\mu V)$

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz

Report No.: TCT190710E009



Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)

Limit: FCC Part 15C Conduction(QP)

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2490	21.41	10.13	31.54	61.79	-30.25	QP	
2		0.2490	15.64	10.13	25.77	51.79	-26.02	AVG	
3		0.5415	32.91	10.13	43.04	56.00	-12.96	QP	
4	*	0.5415	29.57	10.13	39.70	46.00	-6.30	AVG	
5		0.8835	26.30	10.12	36.42	56.00	-19.58	QP	
6		0.8835	22.97	10.12	33.09	46.00	-12.91	AVG	
7		1.1174	22.65	10.12	32.77	56.00	-23.23	QP	
8		1.1174	16.52	10.12	26.64	46.00	-19.36	AVG	
9		1.5945	22.87	10.12	32.99	56.00	-23.01	QP	
10		1.5945	19.03	10.12	29.15	46.00	- <mark>16.8</mark> 5	AVG	
11		2.2695	20.53	10.12	30.65	56.00	-25.35	QP	
12		2.2695	15.70	10.12	25.82	46.00	-20.18	AVG	

Note1:

Freq. = Emission frequency in MHz Reading level $(dB\mu V) = Receiver reading$ Corr. Factor (dB) = LISN factor + Cable loss Measurement $(dB\mu V) = Reading \, level \, (dB\mu V) + Corr. Factor \, (dB)$ Limit $(dB\mu V) = Limit$ stated in standard Margin (dB) = Measurement (dB μ V) – Limits (dB μ V) Q.P. =Quasi-Peak AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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6.3. Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)					
Test Method:	KDB 558074 D01 v05r02					
Limit:	30dBm					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Refer to item 4.1					
Test Procedure:	 Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 × RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level. 					
Test Result:	PASS					

6.3.2. Test Instruments

Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2020
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2020
Antenna Connector	О тст	RFC-01	N/A	Sep. 11, 2020

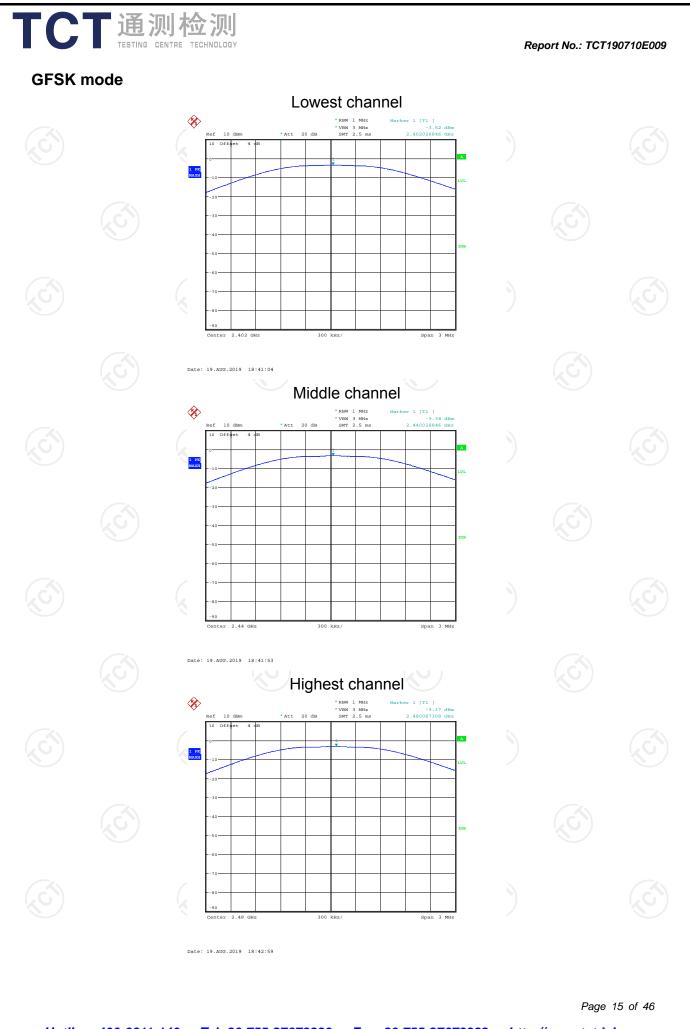
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.3.3. Test Data

GFSK mode				
Test channel Maximum Conducted Output Power (dBm)		Limit (dBm)	Result	
Lowest	-3.52	30.00	PASS	
Middle	-3.34	30.00	PASS	
Highest	-3.17	30.00	PASS	

Test plots as follows:

	ots as follow	s.						
							Paga	14 of 46
<u>Hotlin</u>	ne: 400-6611	-140 Tel: 8	86-755-27673	3339 Fax:	<u>86-755-2767</u>	<mark>73332 http</mark>	Page <u>://www.tct-la</u>	



6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB 558074 D01 v05r02
Limit:	>500kHz
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report.
Test Result:	PASS

6.4.2. Test Instruments

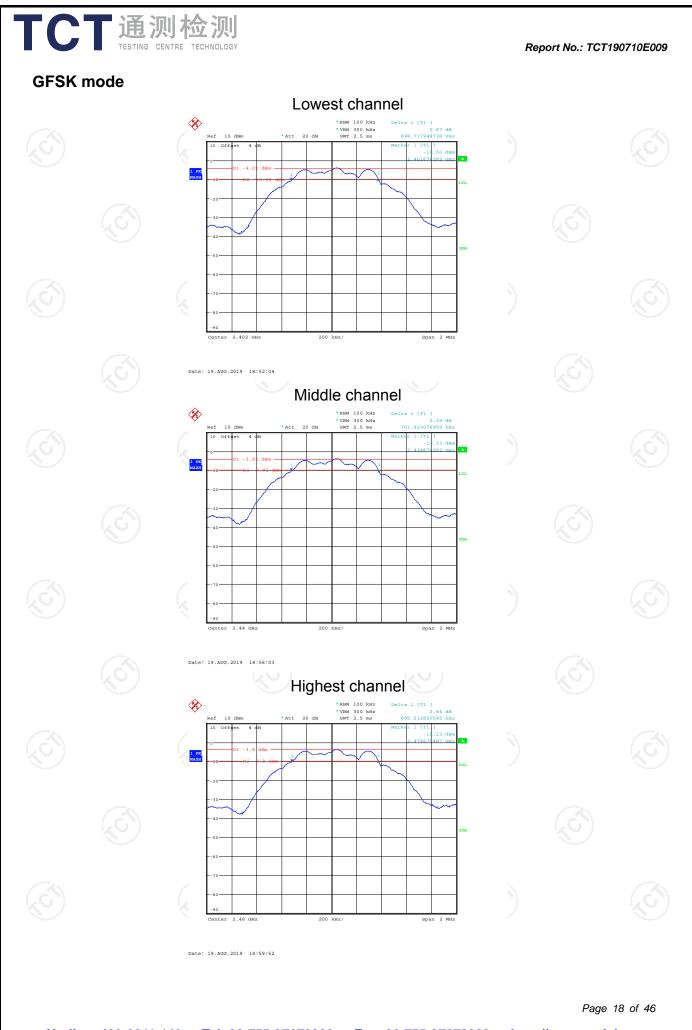
	RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Due			
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2020			
RF cable (9kHz-26.5GHz)	ТСТ	RE-06	N/A	Sep. 11, 2020			
Antenna Connector	🖒 тст	RFC-01	N/A	Sep. 11, 2020			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.4.3. Test data

	Tost shapped	6dB Emission Bandwidth (kHz)					
6	Test channel	GFSK mode	Limit	Result			
0	Lowest	698.72	>500k	J.			
	Middle	701.92	>500k	PASS			
	Highest	695.51	>500k				

Test pl	ots as follov	ws:						
<u>Hotlin</u>	e: 400-6611	-140 Tel: {	<u> 36-755-27673</u>	3339 Fax:	<u>86-755-2767</u>	<u>3332 http</u>	Page <u>://www.tct-la</u>	17 of 46 ab.com





6.5. Power Spectral Density

6.6. Test Specification

Test Requirement:	FCC Part15 C Section 15	5.247 (e)	
Test Method:	KDB 558074 D01 v05r02	2	
Limit:		al density shall not be grea z band at any time interval	
Test Setup:			
	Spectrum Analyzer	EUT	
Test Mode:	Refer to item 4.1		
Test Procedure:	 analyzer by RF cable was compensated to measurement. 2. Set to the maximum por EUT transmit continue 3. Make the measurement resolution bandwidth kHz. Video bandwidth kHz. Video bandwidth make an accurate measurement times DTS Channel B 4. Detector = peak, Sweet mode = max hold, Alle the peak marker funct power level. 	ower setting and enable the ously. nt with the spectrum analyzer (RBW): 3 kHz \leq RBW \leq 100 to VBW \geq 3 x RBW. In order to easurement, set the span to 1	s f's .5
Test Result:	PASS		

6.6.1. Test Instruments

	RF Test Room							
2	Equipment	Manufacturer	Model	Serial Number	Calibration Due			
	Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2020			
	RF cable (9kHz-26.5GHz)	тсто	RE-06	N/A	Sep. 11, 2020			
	Antenna Connector	тст	RFC-01	N/A	Sep. 11, 2020			

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

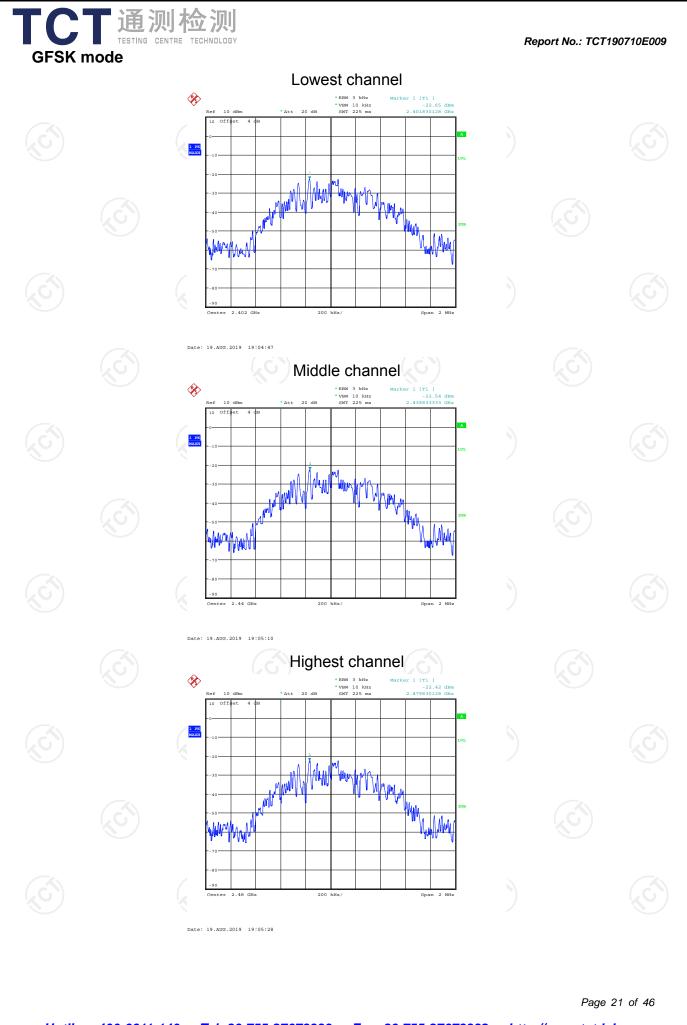
6.6.2. Test data

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Test channel	Power Spectral I	Power Spectral Density (dBm/3kHz)					
Test channel	GFSK mode	Limit	Result				
Lowest	-22.65	8 dBm/3kHz	No. Contraction of the second se				
Middle	-22.54	8 dBm/3kHz	PASS				
Highest	-22.42	8 dBm/3kHz					
		\mathcal{I}	U I				

Test plots as follows:

	ots as follov	vs:						
<u>Hotlin</u>	e: 400-6611	-140 Tel: 8	36-755-27673	3339 Fax:	<u>86-755-2767</u>	3332 http	Page ://www.tct-la	20 of 46 1 b.com



6.7. Conducted Band Edge and Spurious Emission Measurement

6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB 558074 D01 v05r02
Limit:	In any 100 kHz bandwidth outside of the authorize frequency band, the emissions which fall in th non-restricted bands shall be attenuated at least 20 dB 30dB relative to the maximum PSD level in 100 kHz b RF conducted measurement and radiated emission which fall in the restricted bands, as defined in Sectio 15.205(a), must also comply with the radiated emissio limits specified in Section 15.209(a).
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
	 The RF output of EUT was connected to the spectrur analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band
Test Procedure:	 shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure i used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band

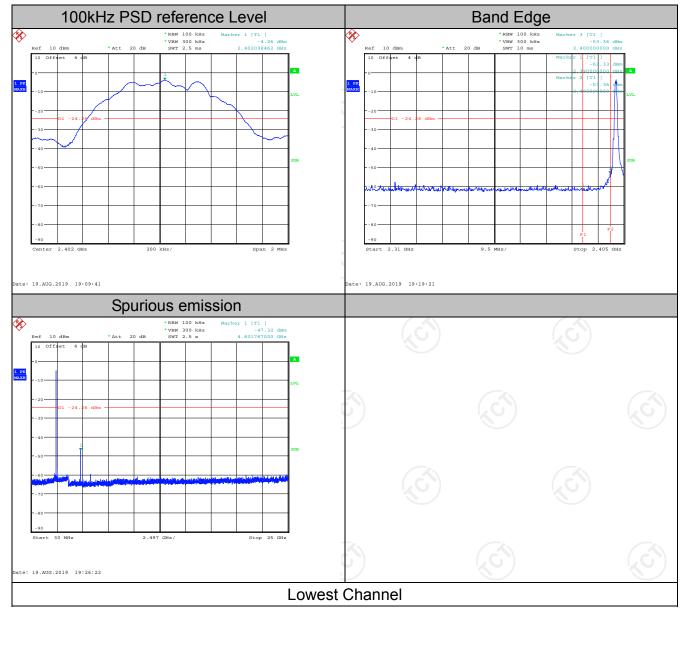
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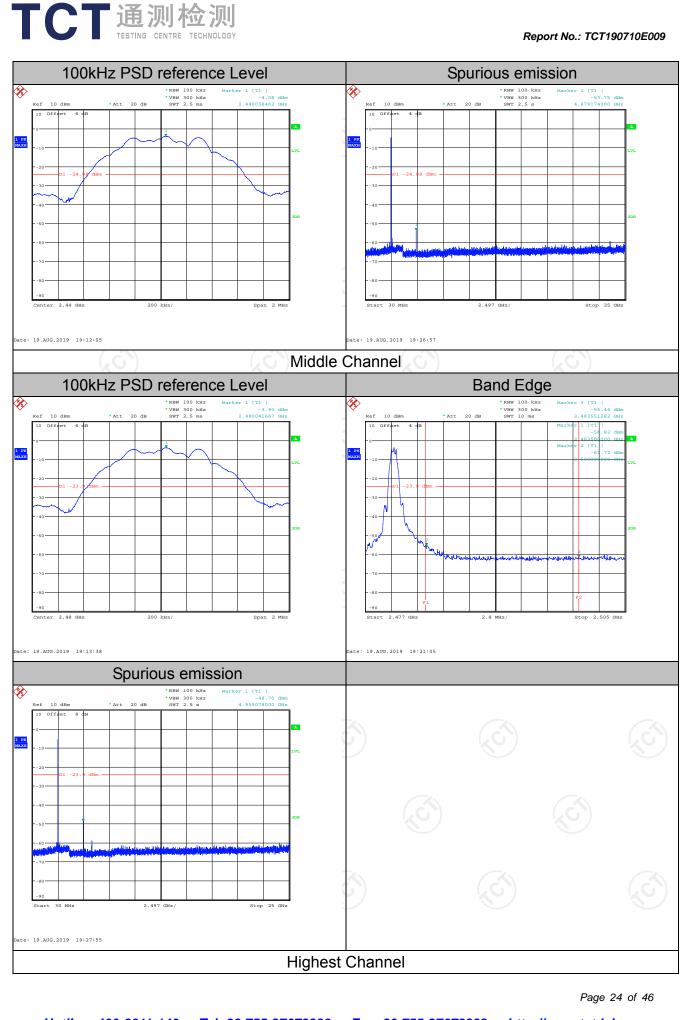
6.7.2. Test Instruments

	RI	F Test Room			
Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	R&S	FSU	200054	Sep. 11, 2020	
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 11, 2020	
Antenna Connector	тст	RFC-01	N/A	Sep. 11, 2020	

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.7.3. Test Data





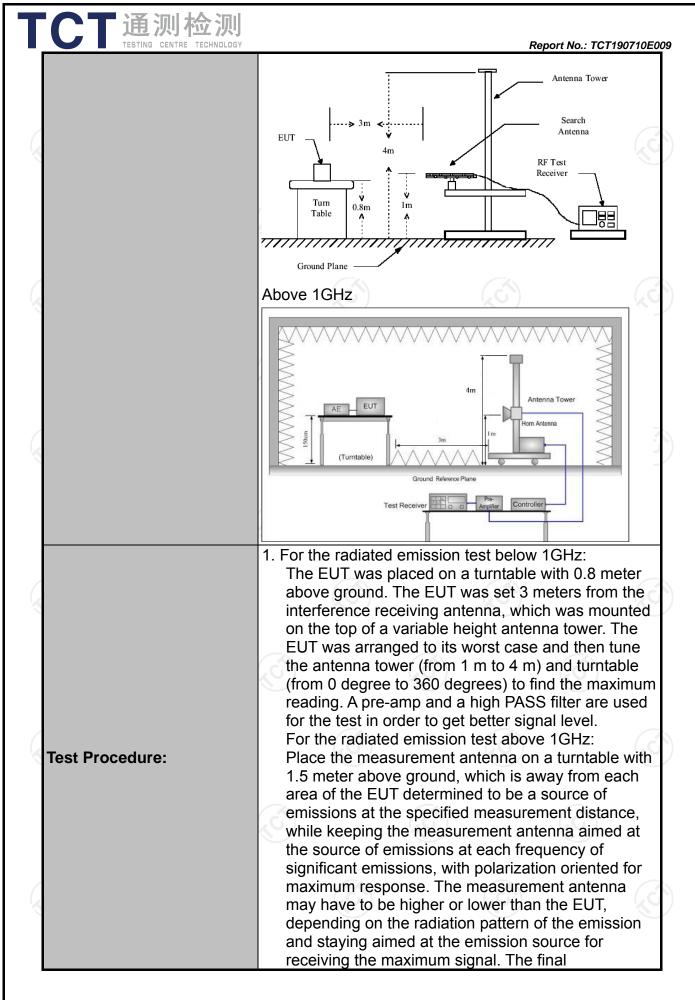


6.8. Radiated Spurious Emission Measurement

6.8.1. Test Specification

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Test Requirement:	FCC Part15	C Section	15.209			
Test Method:	ANSI C63.10): 2013				
Frequency Range:	9 kHz to 25	GHz	3			
Measurement Distance:	3 m	6	9		S S	
Antenna Polarization:	Horizontal &	Vertical			Quasi-peak Value Peak Value Average Value Measurement Distance (meters 300 30 30 30 30 30 30 30 30 30 30 30 30	
Operation mode:	Refer to item	ı 4.1	((.	
	Frequency	Detector	RBW	VBW	Remark	
	9kHz- 150kHz	Quasi-peak		1kHz		
Receiver Setup:	150kHz- 30MHz	Quasi-peak		30kHz	Quasi-peak Value	
•	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value	
		Peak	1MHz	3MHz		
	Above 1GHz	Peak	1MHz	10Hz	Average Value	
	Frequer	ісу	Field Str (microvolts	-	Measurement Distance (meters)	
	0.009-0.4	490	2400/F(
	0.490-1.7		24000/F(KHz)			
	1.705-3	30	30			
	30-88		100			
Limit:	88-216		150			
	216-96		200			
	Above 9	60	500		3	
	Frequency Above 1GH:	(micro	I Strength volts/meter) 500 5000	Measurer Distand (meter 3 3	ce Detector s) Average	
	For radiated	emissions	below 30	OMHz		
	Di	stance = 3m			Computer	
Test setup:	0.8m	Turn table	↓ ↓ m			
		Ground	Plane			



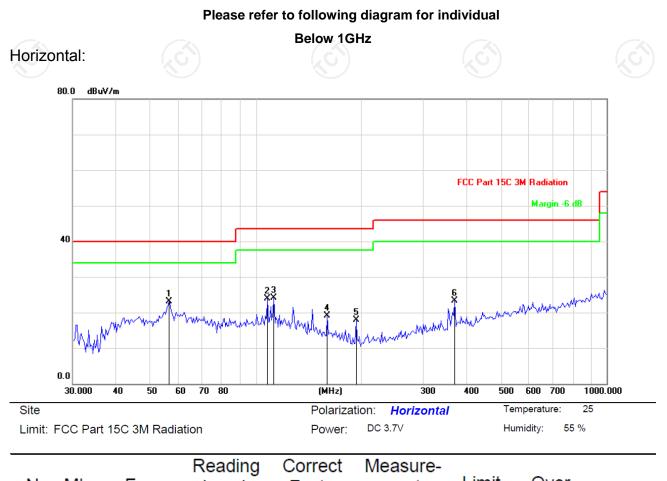
CT通测检	沨」
TESTING CENTRE TECHN	IDLOGY Report No.: TCT190710EC
	 measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. Use the following spectrum analyzer settings: Set RBW=120 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold; Set RBW = 1 MHz, VBW= 3MHz for f > 1 GHz for
Toot mode.	peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test mode:	Refer to section 4.1 for details
Test results:	PASS

6.8.2. Test Instruments

	Radiated Em	ission Test Site	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 29, 2020
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 11, 2020
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 08, 2020
Pre-amplifier	HP	8447D	2727A05017	Sep. 08, 2020
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 11, 2020
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 06, 2020
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 11, 2020
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 06, 2020
Antenna Mast	Keleto	RE-AM	N/A	N/A
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Sep. 08, 2020
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 08, 2020
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 08, 2020
Coax cable (9KHz-40GHz)	ТСТ	RE-high-04	N/A	Sep. 08, 2020
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

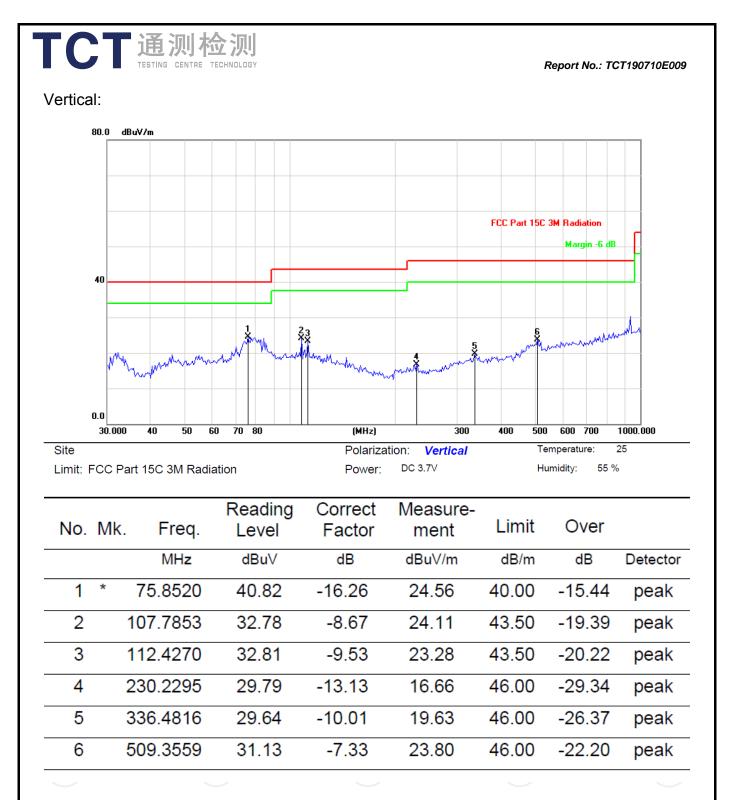
6.8.3. Test Data



No.	Mk.	Freq.	Level	Factor	ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	56.4662	34.59	-11.53	23.06	40.00	-16.94	peak
2		107.7853	32.48	-8.67	23.81	43.50	-19.69	peak
3		112.4270	33.57	-9.53	24.04	43.50	-19.46	peak
4		159.7586	35.00	-15.82	19.18	43.50	-24.32	peak
5		193.1365	32.15	-14.33	17.82	43.50	-25.68	peak
6		368.6681	32.82	-9.42	23.40	46.00	-22.60	peak

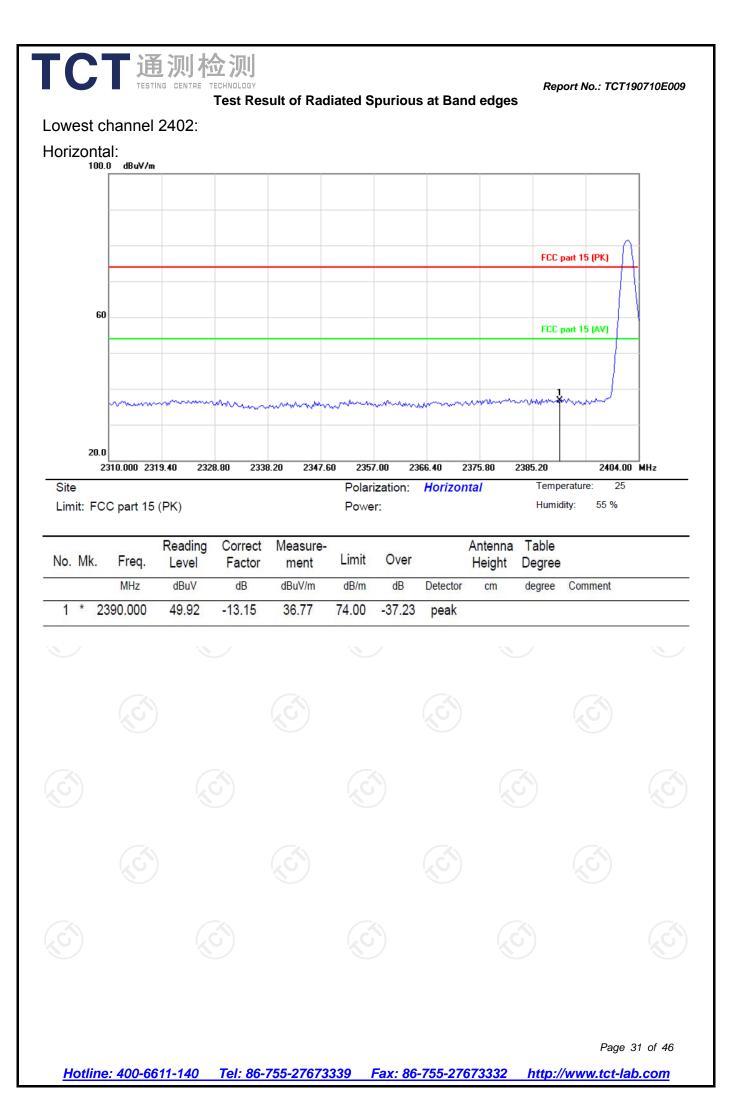


Report No.: TCT190710E009

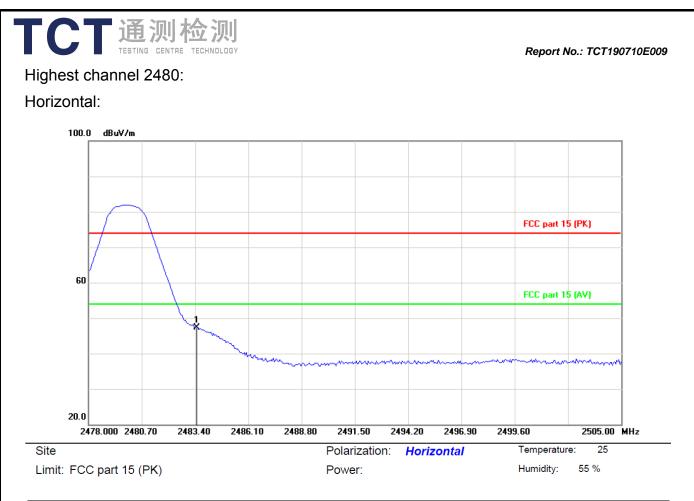


- **Note:** 1. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported
 - 2. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (highest channel) was submitted only.
 - 3. Freq. = Emission frequency in MHz
 - Measurement $(dB\mu V/m) = Reading level (dB\mu V) + Corr. Factor (dB)$ Correction Factor= Antenna Factor + Cable loss – Pre-amplifier Limit (dB μ V/m) = Limit stated in standard
 - Margin (dB) = Measurement (dB μ V/m) Limits (dB μ V/m)
 - Any value more than 10dB below limit have not been specifically reported.
 - * is meaning the worst frequency has been tested in the test frequency range

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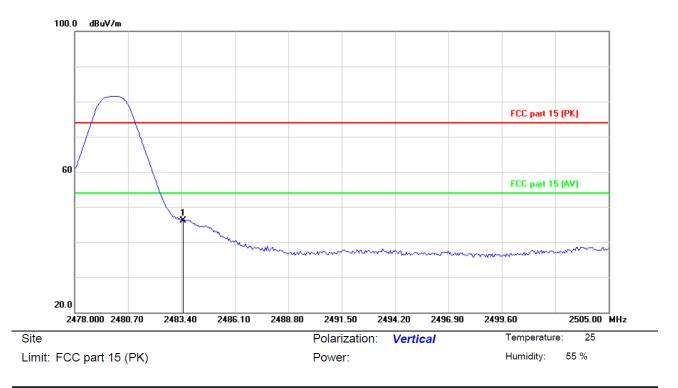


Report No.: TCT190710E009 Vertical: 100.0 dBu¥/m FCC part 15 (PK) 60 FCC part 15 (AV) 20.0 2310.000 2319.40 2328.80 2338.20 2347.60 2357.00 2366.40 2375.80 2385.20 2404.00 MHz Site Polarization: Vertical Temperature: 25 Humidity: 55 % Limit: FCC part 15 (PK) Power: Reading Correct Measure-Antenna Table Limit Over No. Mk. Freq. Level Factor Height Degree ment MHz dBuV dB dBuV/m dB/m dB degree Detector cm Comment 2390.000 -13.15 37.27 1 * 50.42 74.00 -36.73 peak Page 32 of 46

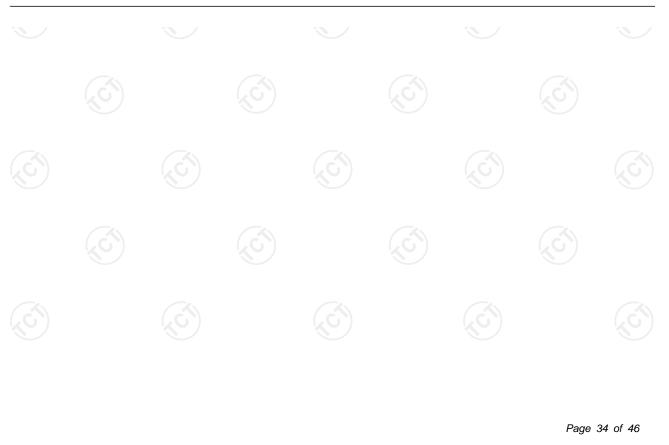


No.	M	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	2483.500	60.19	-12.84	47.35	74.00	-26.65	peak

Vertical:



No. Mł	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1 *	2483.500	59.03	-12.84	46.19	74.00	-27.81	peak



Report No.: TCT190710E009

Above 1GHz

Low chann	el: 2402 N	1Hz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissio Peak (dBµV/m)	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
4804	Н	46.25		0.66	46.91		74	54	-7.09			
7206	Н	36.63		9.5	46.13		74	54	-7.87			
	Н											
	<u>_</u>							<u> </u>				
4804	V	45.64	-6.6	0.66	46.30		74	54	-7.70			
7206	V	37.71		9.5	47.21		74	54	-6.79			
	V											

Middle channel: 2440 MHz

wildule cha	11161. 2440				$\langle \rangle$				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
4880	Н	45.95		0.99	46.94		74	54	-7.06
7320	H	39.83		9.87	49.70	×	74	54	-4.30
(CH)		-4,0)	(<u>-</u>		(_)	
				/	· · · · · · · · · · · · · · · · · · ·				
4880	V	44.94		0.99	45.93		74	54	-8.07
7320	V	38.43		9.87	48.30		74	54	-5.70
	V								

High channel: 2480 MHz

Frequency (MHz)		Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Level		Peak limit	AV/ limit	Margin
					Peak (dBµV/m)	AV		(dBµV/m)	(dB)
4960	N H	46.41	<u> </u>	1.33	47.74	0 /	74	54	-6.26
7440	Ĥ	38.23		10.22	48.45		74	54	-5.55
	Н								
4960	V	45.57		1.33	46.90		74	54	-7.10
7440	V	37.42		10.22	47.64		74	54	-6.36
	V								

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier

2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)

3. The emission levels of other frequencies are very lower than the limit and not show in test report.

4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.

5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

6. All the restriction bands are compliance with the limit of 15.209.

