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「CT通测检测 TESTING CENTRE TECHNOLOGY 1. Test Certification

Product: Bluetooth Speaker Model No.: GFT-B007 Additional Please refer to page 5 Model No.: N/A Trade Mark: Applicant: Eastern Times Technology Co., Ltd. Building D, Nan An Industry Park, Youganpu Village, Fenggang Town, Address: Dongguan City, Guangdong, China Manufacturer: Eastern Times Technology Co., Ltd. Building D, Nan An Industry Park, Youganpu Village, Fenggang Town, Address: Dongguan City, Guangdong, China Date of Test: Dec. 26, 2017 - Jan. 19, 2018 FCC CFR Title 47 Part 15 Subpart C Section 15.247 Applicable Standards: KDB 558074 D01 DTS Meas Guidance v04

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.

Tested By: Date: Jan. 19, 2018 Brews Xu **Reviewed By:** Date: Jan. 22, 2018 Beryl Zhao MSN Approved By: Date: Jan. 22, 2018 Tomsin Page 3 of 32



2. Test Result Summary

	rement		CFR 47 Se	ection	Result			
Antenna r	equirement	Ş	15.203/§15.	.247 (c)	PASS			
	ne Conducted ssion	§15.207				PASS		
	Peak Output wer		§15.247 (k §2.104			PASS		
6dB Emissio	on Bandwidth		§15.247 (a §2.104		Ś	PASS		
Power Spe	ctral Density		§15.247	(e)		PASS		
Banc	lEdge		1§5.247 §2.1051, §2			PASS		
<u>()</u>			SAE 205/84	5 200	$\langle \mathcal{O} \rangle$			
2. Fail: Test ite	Emission tem meets the requir m does not meet the	rement.				PASS		
lote: 1. PASS: Test I 2. Fail: Test ite 3. N/A: Test ca	tem meets the requir	rement. requirement. the test object	§2.1053, §2	2.1057		PASS C		
lote: 1. PASS: Test I 2. Fail: Test ite 3. N/A: Test ca	tem meets the requir m does not meet the se does not apply to	rement. requirement. the test object	§2.1053, §2	2.1057		PASS C		
lote: 1. PASS: Test I 2. Fail: Test ite 3. N/A: Test ca	tem meets the requir m does not meet the se does not apply to	rement. requirement. the test object	§2.1053, §2	2.1057		PASS C		
lote: 1. PASS: Test I 2. Fail: Test ite 3. N/A: Test ca	tem meets the requir m does not meet the se does not apply to	rement. requirement. the test object	§2.1053, §2	2.1057		PASS CO		



3. EUT Description

Model No.:	GFT-B007 GFT-B001, GFT-B009, GFT-B011, GFT-B013, GFT-B015, GFT-B019, GFT-B021, GFT-B023, GFT-B025, GFT-B029, GFT-B031, GFT-B033, GFT-B035, GFT-B039, GFT-B051, OFT-D052, OFT-D055, OFT-D052, OFT-D052, OFT-D052, OFT-D055, OFT-D05
	GFT-B019, GFT-B021, GFT-B023, GFT-B025, GFT-B029, GFT-B031, GFT-B033, GFT-B035, GFT-B039, GFT-B051,
Additional Model No.:	GFT-B053, GFT-B055, GFT-B059, GFT-B061, GFT-B063, GFT-B065, ET-8013, ET-8019, ET-8081, ET-8082, ET-8083, ET-8085, ET-8086, ET-8087, ET-8088, ET-8089, ET-8090, ET-8091, ET-8092, ET-8093, ET-8095, ET-8096, ET-8097, ET-8098, ET-8099, A2, A15, A16
Trade Mark:	N/A
Hardware Version:	KSW-A6-2823-2925
Software Version:	ATS2823
BT Version:	V4.2 (This report is for BLE)
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi
Power Supply:	Rechargeable Li-ion Battery DC 3.7V
Remark:	All models above are identical in interior structure, electrical circuits and components, and just colors and model names 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			
····	(····	(<u> </u>	(···	(2)			
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz			
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz			
Remark:	Remark: Channel 0, 19 & 39 have been tested.									

4. Genera Information

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4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting

	by select channel and modulations(The value of duty cycle is 98.46%) with Fully-charged battery.
The sample was placed (0.1m below 1GH plane of 3m chamber. Measurements in be	

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 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
, 0	/			

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

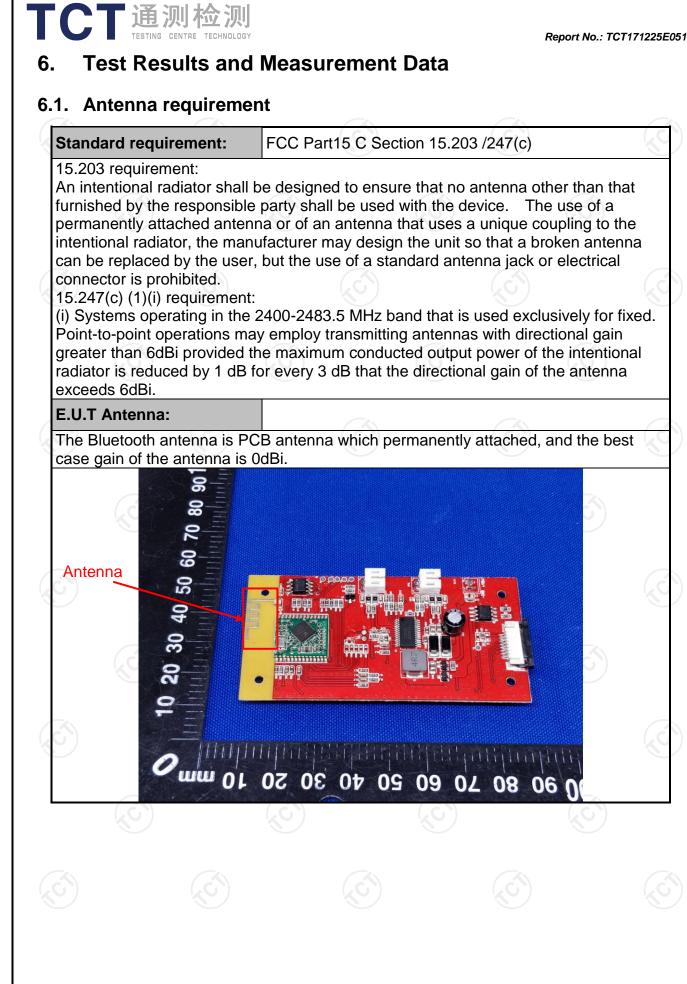
Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

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
9	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%



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6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2013						
Frequency Range:	150 kHz to 30 MHz	3	(\mathcal{S})				
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto						
	Frequency range	Limit (
	(MHz)	Quasi-peak	Average <				
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 plan Remarkc E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Test table height=0.8m	ne					
Test Mode:	Charging + Transmittin	ng Mode					
Test Procedure:	 The E.U.T is connelimpedance stabiliz provides a 500hm/5 measuring equipmer The peripheral device power through a LI coupling impedance refer to the block photographs). Both sides of A.C. conducted interferer emission, the relative the interface cables 	ation network 50uH coupling im nt. ces are also conne SN that provides with 50ohm term diagram of the line are checkence. In order to fir e positions of equ	(L.I.S.N.). This pedance for the ected to the main a 50ohm/50uh nination. (Please test setup and d for maximum nd the maximum ipment and all o				
	ANSI C63.10: 2013						

6.2.2. Test Instruments

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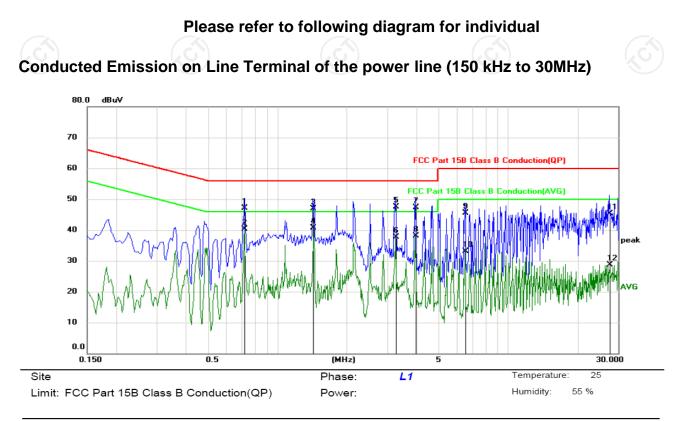
Conducted Emission Shielding Room Test Site (843)										
Equipment	Manufacturer	Model	Serial Number	Calibration Due						
Test Receiver	R&S	ESPI	101401	Jun. 12, 2018						
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 27, 2018						
Coax cable (9KHz-30MHz)	тст	CE-05	N/A	Sep. 27, 2018						
EMI Test Software	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



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBu∨	dB	Detector	Comment
1		0.7215	35.97	11.23	47.20	56.00	-8.80	QP	
2		0.7215	29.10	11.23	40.33	46.00	-5.67	AVG	
3		1.4325	35.49	11.41	46.90	56.00	-9.10	QP	
4	*	1.4325	29.35	11.41	40.76	46.00	-5.24	AVG	
5		3.2595	36.31	11.24	47.55	56.00	-8.45	QP	
6		3.2595	26.42	11.24	37.66	46.00	-8.34	AVG	
7		3.9795	36.36	10.97	47.33	56.00	-8.67	QP	
8		3.9795	27.09	10.97	38.06	46.00	-7.94	AVG	
9		6.5130	34.75	10.85	45.60	60.00	-14.40	QP	
10		6.5130	22.20	10.85	33.05	50.00	-16.95	AVG	
11		27.4245	34.63	10.69	45.32	60.00	-14.68	QP	
12		27.4245	17.95	10.69	28.64	50.00	-21.36	AVG	

Note:

 Freq. = Emission frequency in MHz

 Reading level (dBμV) = Receiver reading

 Corr. Factor (dB) = Antenna factor + Cable loss

 Measurement (dBμV) = Reading level (dBμV) + Corr. Factor (dB)

 Limit (dBμV) = Limit stated in standard

 Margin (dB) = Measurement (dBμV) – Limits (dBμV)

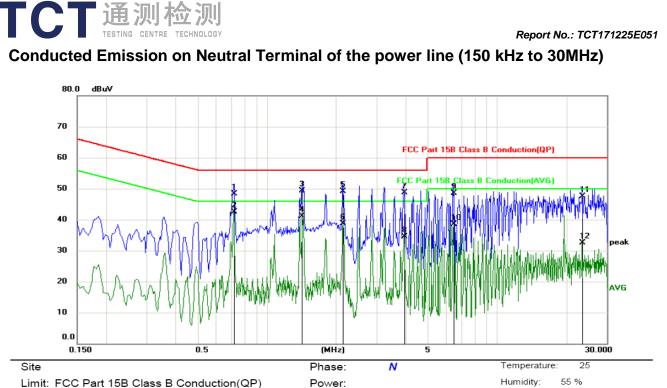
 Q.P. =Quasi-Peak

 AVG =average

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

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Limit: FCC Part 15B Class B Conduction(QP)

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBu∨	dB	Detector	Comment
1	0.7215	37.15	11.23	48.38	56.00	-7.62	QP	
2 *	0.7215	31.23	11.23	42.46	46.00	-3.54	AVG	
3	1.4235	37.93	11.41	49.34	56.00	-6.66	QP	
4	1.4235	29.61	11.41	41.02	46.00	-4.98	AVG	
5	2.1435	37.42	11.64	49.06	56.00	-6.94	QP	
6	2.1435	27.00	11.64	38.64	46.00	-7.36	AVG	
7	3.9615	37.69	10.98	48.67	56.00	-7.33	QP	
8	3.9615	23.48	10.98	34.46	46.00	-11.54	AVG	
9	6.4770	37.74	10.84	48.58	60.00	-11.42	QP	
10	6.4770	27.67	10.84	38.51	50.00	-11.49	AVG	
11	23.4195	36.79	10.71	47.50	60.00	-12.50	QP	
12	23.4195	21.70	10.71	32.41	50.00	-17.59	AVG	

Note1:

Freq. = Emission frequency in MHz

- Reading level $(dB\mu V) = Receiver reading$
- Corr. Factor (dB) = Antenna 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:	KDB558074
Limit:	30dBm
Test Setup:	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 x 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	Equipment Manufacturer Model Se		Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018

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

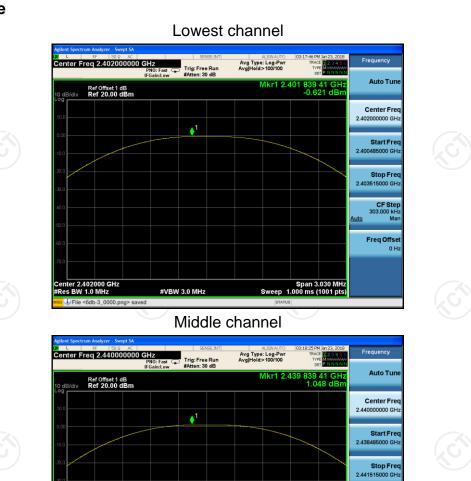
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BT LE mode			
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
Lowest	-0.62	30.00	PASS
Middle	1.05	30.00	PASS
Highest	2.10	30.00	PASS

Test plots as follows:

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BT LE mode





Center 2.440000 GHz #Res BW 1.0 MHz

Highest channel

#VBW 3.0 MHz

CF Step 303.000 kHz Mar

Freq Offset 0 Hz

Auto

Span 3.030 MHz Sweep 1.000 ms (1001 pts



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6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074
Limit:	>500kHz
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04. 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

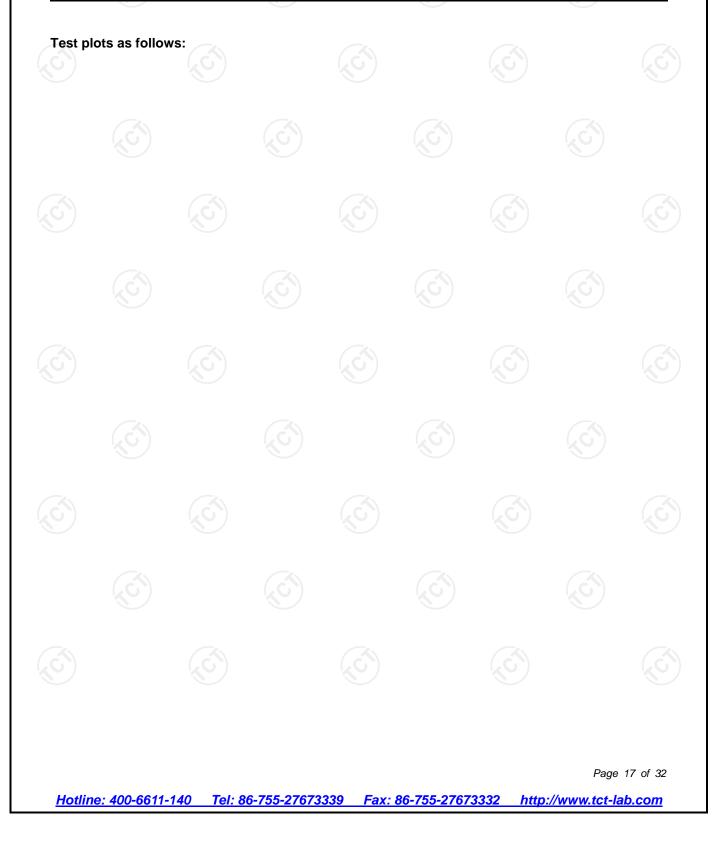
6.4.2. Test Instruments

	RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Due		
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018		
RF cable (9kHz-26.5GHz)	🕥 тст	RE-06	N/A	Sep. 27, 2018		
Antenna Connector	ТСТ	RFC-01	N/A	Sep. 27, 2018		

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

	Test channel	6dB Emission Bandwidth (kHz)				
(Test channel	BT LE mode	Limit	Result		
0	Lowest	509.5	>500k	C		
	Middle	510.4	>500k	PASS		
	Highest	509.7	>500k			



BT LE mode

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Lowest channel



Middle channel



Highest channel



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6.5. Power Spectral Density

6.6. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 The RF output of EUT was connected to the spectrum 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. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report.
Test Result:	PASS

6.6.1. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018	
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018	
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018	

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

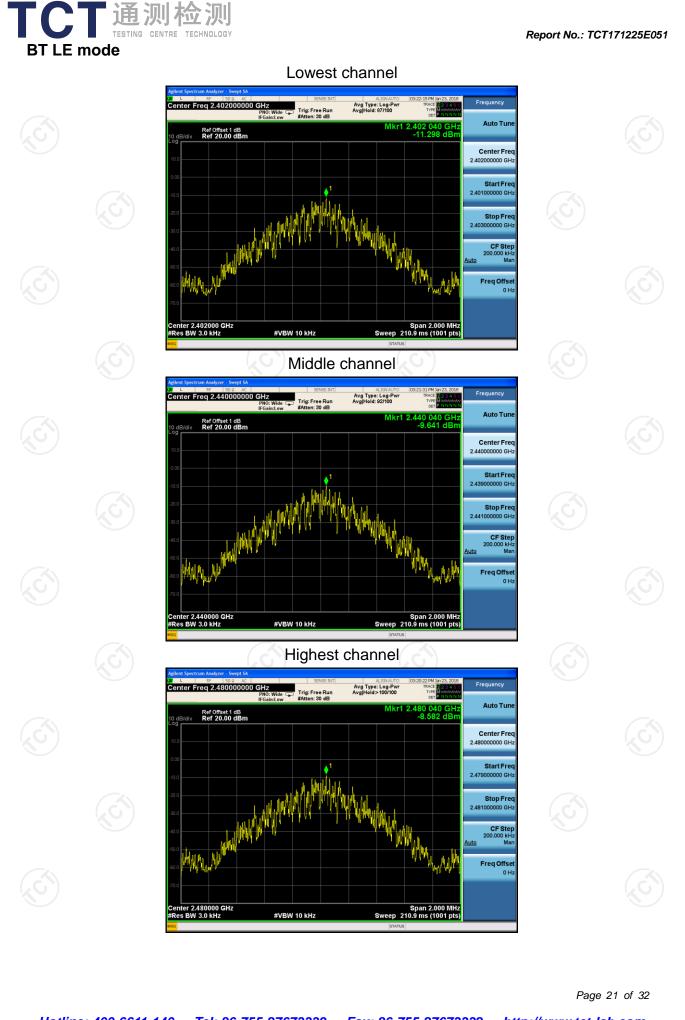
6.6.2. Test data

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Test channel	Power Spectral Density (dBm/3kHz)				
Test channel	BT LE mode	Limit	Result		
Lowest	-11.30	8 dBm/3kHz	No.		
Middle	-9.64	8 dBm/3kHz	PASS		
Highest	-8.58	8 dBm/3kHz			

Test plots as follows:

Test plo	ots as follov	vs:						
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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:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The RF output of EUT was connected to the spectrum 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 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 is 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.

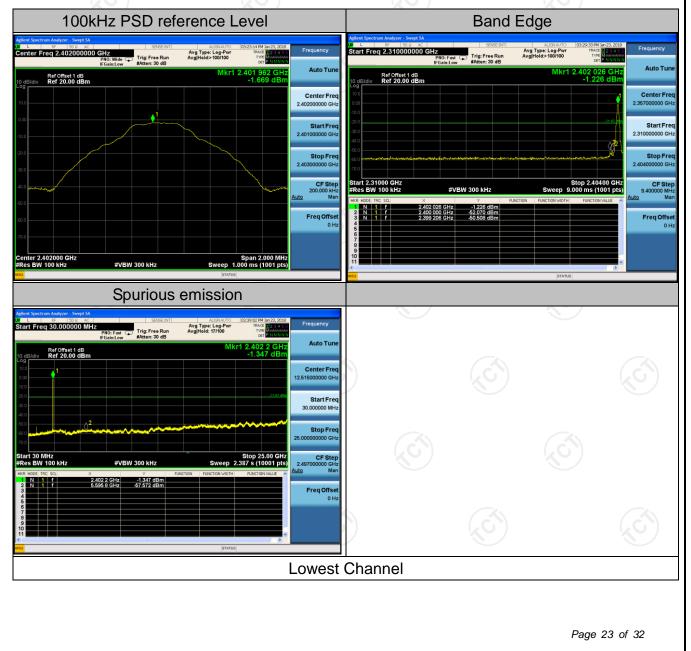
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6.7.2. Test Instruments

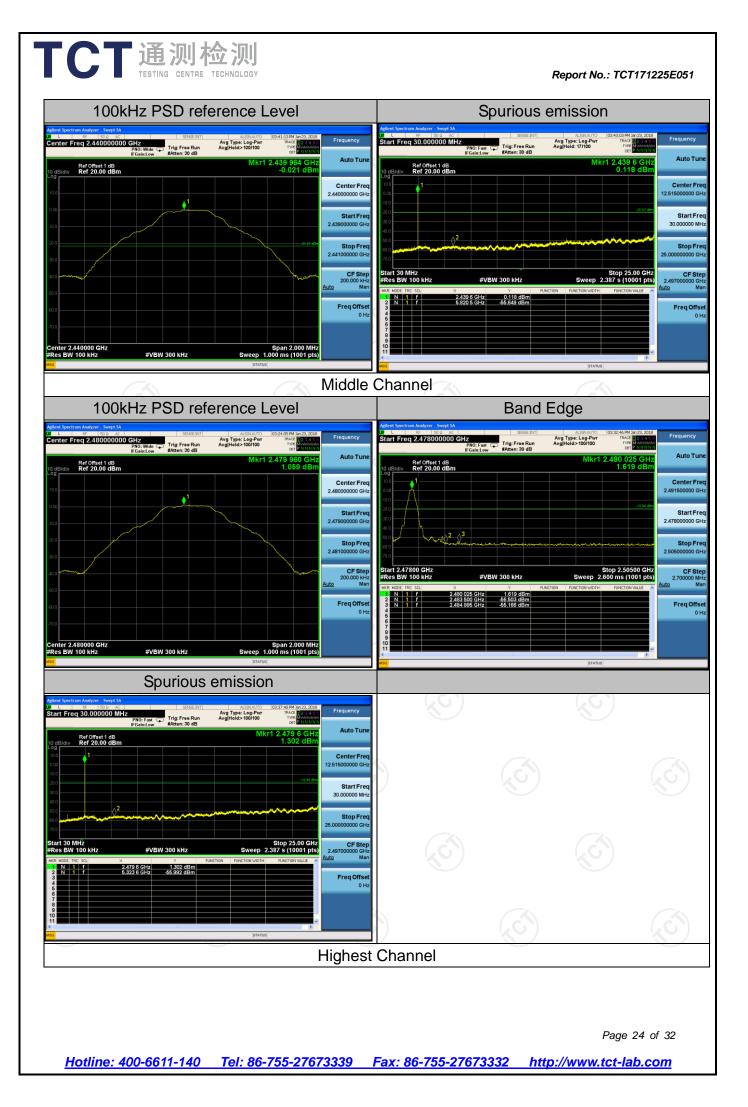
RF Test Room										
Equipment	Manufacturer	Model	Serial Number	Calibration Due						
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018						
Spectrum Analyzer	ROHDE&SCH WARZ	FSQ	200061	Sep. 27, 2018						
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018						
Antenna Connector	тст	RFC-01	N/A	Sep. 27, 2018						

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



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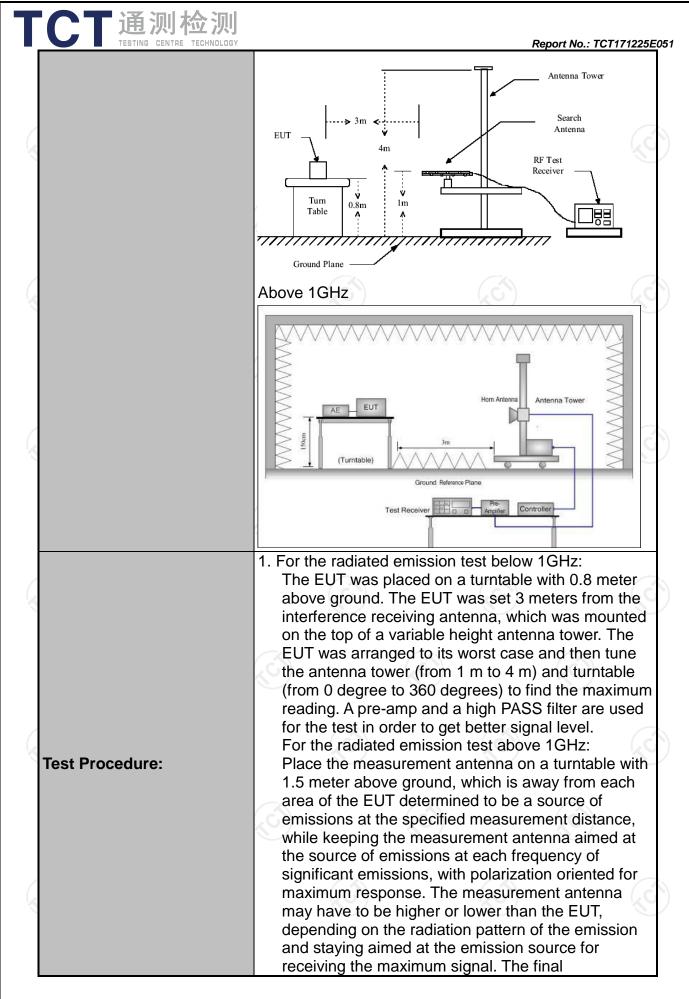




6.8.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209								
Test Method:	ANSI C63.10: 2013								
Frequency Range:	9 kHz to 25 GHz								
Measurement Distance:	3 m	K	9		K)			
Antenna Polarization:	Horizontal & Vertical								
Operation mode:	Refer to item	ı 4.1	(
	Frequency 9kHz- 150kHz	Detector Quasi-peal		VBW 1kHz		Remark si-peak Value			
Receiver Setup:	150kHz- 30MHz	Quasi-peal	k 9kHz	30kHz	Qua	si-peak Value			
	30MHz-1GHz Above 1GHz	Quasi-peal Peak Peak	k 100KHz 1MHz 1MHz	300KHz 3MHz 10Hz	Hz Quas Hz Quas Hz Quas Hz Pe Hz Ave Dista	si-peak Value eak Value erage Value			
	Frequen	су	Field Stre (microvolts	ength /meter)	Me	easurement ance (meters)			
	0.009-0.4		2400/F(I		300 30				
	1.705-3	/	24000/F(KHz) 30		30				
	30-88		100		3				
	88-216	6	150		3				
Limit:	216-96	0	200		3				
	Above 9	60	500			3			
	Frequency		Field Strength Dis		ance Detector				
	Above 1GHz	,	500		3				
	Above ronz		5000	3	8	Peak			
	For radiated	emission Distance = 3m	s below 30)MHz		Computer			
Test setup:	Pre - Amplifier								
	EUT Turn table								
	Ground Plane 30MHz to 1GHz								

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	 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. 2. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 3. 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. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz; VBW 承BW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for 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



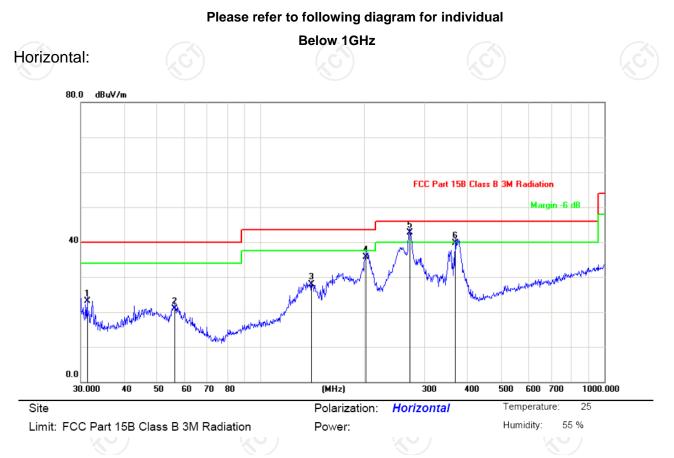


6.8.2. Test Instruments

Radiated Emission Test Site (966)									
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due					
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018					
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018					
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018					
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018					
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018					
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018					
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018					
Horn Antenna	Schwarzbeck	BBH 9170	582	Jun. 07, 2018					
Antenna Mast	Keleto	CC-A-4M	N/A	N/A					
Coax cable (9KHz-1GHz)	тст	RE-low-01	N/A	Sep. 27, 2018					
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 27, 2018					
Coax cable (9KHz-1GHz)	тст	RE-low-03	N/A	Sep. 27, 2018					
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 27, 2018					
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



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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector	cm	degree	Comment
1		31.2893	36.80	-13.66	23.14	40.00	-16.86	QP			
2		56.1974	34.10	-13.14	20.96	40.00	-19.04	QP			
3		140.3420	44.00	-16.00	28.00	43.50	-15.50	QP			
4		202.1005	48.41	-12.66	35.75	43.50	-7.75	QP			
5	*	271.3246	52.70	-9.90	42.80	46.00	-3.20	QP			
6		368.1116	46.50	-6.72	39.78	46.00	-6.22	QP			



Vertical:

6

377.2590

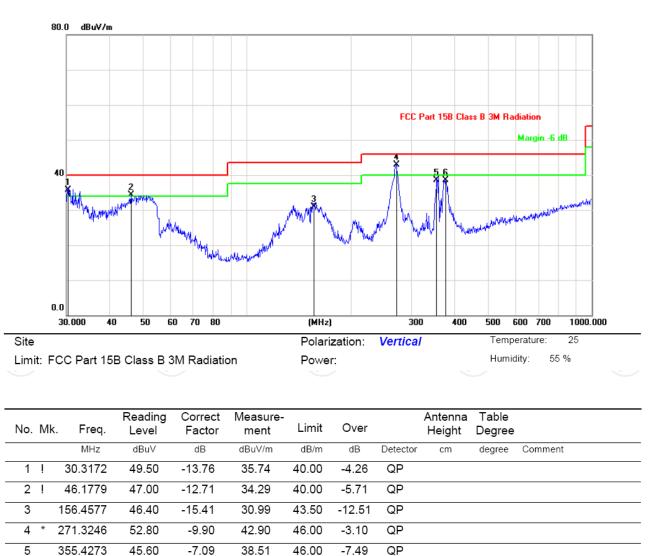
45.00

-6.45

38.55

T

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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

46.00

2. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Highest channel) was submitted only.

-7.45

QP

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-5.17

74

54

Above 1GHz

				1.0010					
Low channe	el: 2402 N	1Hz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
2390	Н	49.21		-7.52	41.69		74	54	-12.31
4804	Н	44.13		7.44	51.57		74	54	-2.43
7206	Н	37.59		13.54	51.13		74	54	-2.87
	H								
			(.6		(.G		(\mathbf{c})	
2390	V	51.48		-7.52	43.96	<u> </u>	74	54	-10.04
4804	V	42.67		7.44	50.11		74	54	-3.89
7206	V	38.45		13.54	51.99		74	54	-2.01
X	V			(X				
GT)		(20)				•	(\mathcal{O})		
Middle cha	nnel: 2440)MHz		<u>e</u>			V		Q
Frequency	Ant Pol	Peak	AV	Correction	Emissio	on Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)		(dBµV/m)	(dB)
4880	2GH)	43.54	-4,0	7.01	50.55	<u>, G -</u>)-	74	54	-3.45
7320	Y	34.49		13.21	47.70		74	54	-6.30
	Н								
4880	V	42.47		7.01	49.48		74	54	-4.52
	-								

High channel: 2480 MHz

7320

V

V

35.62

i ligit chatti	ICI. 2400 I	VII 12				C Pr.			
	uency Ant. Pol.		AV reading	Correction Factor			Peak limit		Margin
(MHz)	H/V	reading (dBµV)	(dBµV)	(dB/m)		(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
2483.5	Н	48.36		-7.52	40.84		74	54	-13.16
4960	Н	43.14		7.44	50.58		74	54	-3.42
7440	Н	34.84		13.54	48.38		74	54	-5.62
<u> </u>	Н			8)				
2483.5	V	48.24		-7.52	40.72		74	54	-13.28
4960	V	42.36		7.44	49.80		74	54	-4.20
7440	S V	33.42	-+20	13.54	46.96	$\langle G^{2} \rangle$	74	54	-7.04
	V								

48.83

13.21

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.

