

Global United Technology Services Co., Ltd.

Report No.: GTSE15100190303

FCC REPORT

Applicant: Shen Zhen Sailing Electronic Co., Ltd

Address of Applicant: 29 Building, Baotian Industrial Zone Chen Tian, Xixiang Town,

Bao An District, Shenzhen, China.

Equipment Under Test (EUT)

Product Name: Bluetooth FM Transmitter

Model No.: BT8128, BT8103, BT8105, BT8106, BT8107, BT8108, BT8109,

BT8110, BT8111, BT8112, BT8115, BT8116, BT8117, BT8118,

BT8119, BT8120, BT8121, FM28B, FM29B, FM8112, BC06,

BC07, BC08, BC09, BC10, BC12, BC15, BC20, FM12B, FM18,

FM23, FM24, FM30, FM26, FM8116B

FCC ID: 2AEYD-BT8128

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.239:2015

Date of sample receipt: October 16, 2015

Date of Test: October 19-30, 2015

Date of report issued: November 02, 2015

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report

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2 Version

Version No.	Date	Description
00	November 02, 2015	Original

Prepared By:	Zdward.Pan	Date:	November 02, 2015
	Project Engineer		
Check By:	hank. yan	Date:	November 02, 2015
	Reviewer		



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Field strength of the fundamental signal	15.239 (b)	Pass
Spurious emissions	15.239 (c)/15.209	Pass
Band edge	15.239 (c)	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.10 2013 and ANSI C63.4: 2014

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz ± 4.68dB		(1)
AC Power Line Conducted Emission 0.15MHz ~ 30MHz ± 3.45dB			(1)
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of 9	95%.

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5 General Information

5.1 Client Information

Applicant:	Shen Zhen Sailing Electronic Co., Ltd
Address of Applicant:	29 Building, Baotian Industrial Zone Chen Tian, Xixiang Town, Bao An District, Shenzhen, China.
Manufacturer/Factory:	Shen Zhen Sailing Electronic Co., Ltd
Address of Manufacture/Factory:	29 Building, Baotian Industrial Zone Chen Tian, Xixiang Town, Bao An District, Shenzhen, China.

5.2 General Description of EUT

· · · · · · · · · · · · · · · · · · ·	
Product Name:	Bluetooth FM Transmitter
Model No.:	BT8128, BT8103, BT8105, BT8106, BT8107, BT8108, BT8109,
	BT8110, BT8111, BT8112, BT8115, BT8116, BT8117, BT8118,
	BT8119, BT8120, BT8121, FM28B, FM29B, FM8112, BC06,
	BC07, BC08, BC09, BC10, BC12, BC15, BC20, FM12B, FM18,
	FM23, FM24, FM30, FM26, FM8116B
Operation Frequency:	88.1MHz~107.9MHz
Channel separation:	100KHz
Modulation type:	FM
Antenna Type:	Integral antenna
Antenna gain:	0dBi (declare by Applicant)
Power supply:	DC 5V
	Or
	DC 3.7V 600mAh Li-ion Battery



Note:

Test channel:

Channel	Frequency
The lowest channel	88.1MHz
The middle channel	98.0MHz
The Highest channel	107.9MHz

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:



5.3 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: Test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	X	Υ	Z
Field Strength(dBuV/m)	46.59	47.87	46.18

5.4 Description of Support Units

Manufacturer	Description	scription Model Serial Number		FCC Approval
Emerson Network Power	USB Charger	A1299	N/A	FCC VOC

5.5 Test Facility

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

• FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, China

Tel: 0755-27798480 Fax: 0755-27798960

5.7 Other Information Requested by the Customer

None.



6 Test Instruments list

Rad	Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 28 2015	Mar. 27 2016	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Jun 30 2015	Jun 29 2016	
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jun 30 2015	Jun 29 2016	
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Jun 30 2015	Jun 29 2016	
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 26 2015	June 25 2016	
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016	
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016	
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016	
11	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016	
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016	
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jun. 30, 2015	Jun 29 2016	
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jun. 30, 2015	Jun 29 2016	
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 26 2015	June 25 2016	
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016	

Con	Conducted Emission:							
140.00			Inventory	Cal.Date	Cal.Due date			
Item	Test Equipment	Manufacturer	Model No.	No.	(mm-dd-yy)	(mm-dd-yy)		
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Jun. 30 2015	Jun. 29 2016		
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jun. 30 2015	Jun. 29 2016		
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jun. 30 2015	Jun. 29 2016		
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jun. 30 2015	Jun. 29 2016		
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jun. 30 2015	Jun. 29 2016		
6	Coaxial Cable	GTS	N/A	GTS227	Jun. 30 2015	Jun. 29 2016		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		

Gen	General used equipment:										
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)					
1	Barometer	ChangChun	DYM3	GTS257	July 07 2015	July 06 2016					



7 Test results and Measurement Data

7.1 Antenna requirement

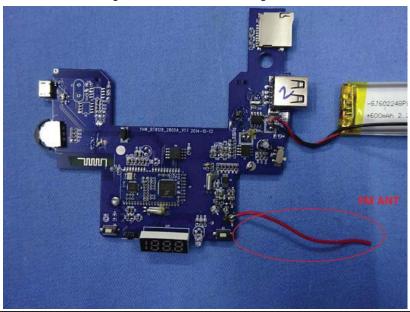
Standard requirement: FCC Part15 C Section 15.203

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integral antenna, the best case gain of the antenna is 0dBi





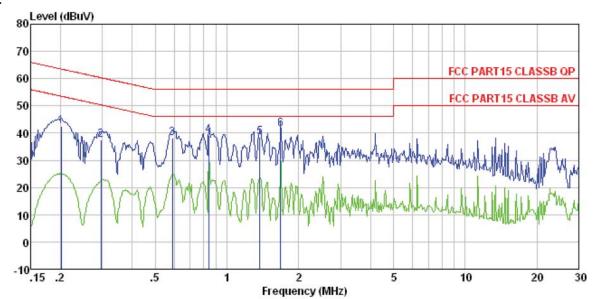
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	150KHz to 30MHz						
Class / Severity:	Class B						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sv	weep time=auto					
Limit:		Limit (c	IRu\/\				
Lillit	Frequency range (MHz)	Quasi-peak	Average				
	0.15-0.5	66 to 56*	56 to 46*				
	0.5-5	56	46				
	5-30	60	50				
	* Decreases with the logarithm	n of the frequency.					
Test setup:	Reference Plane		_				
	AUX Filter AC power Equipment E.U.T Test table/Insulation plane Remarkc E U T. Equipment Under Test LISN. Line Impedence Stabilization Network Test table height=0.8m						
Test procedure:	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative 						
	positions of equipment and according to ANSI C63.10:2	2013 on conducted me					
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.3 for details						
Test results:	Pass						

Measurement data:



Line:



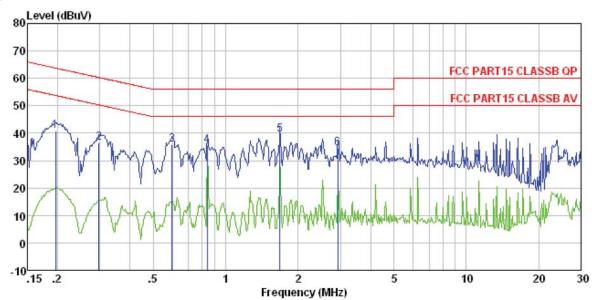
Condition : FCC PART15 CLASSB QP LISN-2013 LINE Job No. : 1903RF

Job No. : 1903RF Test mode : FM mode Test Engineer: Joe

	Freq		LISN Factor					
, c	MHz	-dBuV	dB	dB	dBuV	dBuV	dB	
1	0.202	42.22	0.14	0.13	42.49	63.54	-21.05	QP
2 3 4 5	0.296	37.32	0.11	0.10	37.53	60.37	-22.84	QP
3	0.592	37.88	0.13	0.12	38.13	56.00	-17.87	QP
4	0.839	38.95	0.14	0.13	39.22	56.00	-16.78	QP
5	1.374	38.07	0.12	0.13	38.32	56.00	-17.68	QP
6	1.680	41.30	0.12	0.14	41.56	56.00	-14.44	QP



Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 1903RF Test mode : FM mode Test Engineer: Joe

	Freq	Read	LISN Factor			Limit Line	Over Limit	Remark
	MHz	dBuV	dB	d₿	dBu₹	dBuV	dB	-
1	0.197	40.66	0.07	0.13	40.86	63.76	-22.90	QP
2	0.297	36.47	0.06	0.10	36.63	60.32	-23.69	QP
2	0.598	35.53	0.07	0.12	35.72	56.00	-20.28	QP
4 5 6	0.839	35.17	0.07	0.13	35.37	56.00	-20.63	QP
5	1.680	39.35	0.09	0.14	39.58	56.00	-16.42	QP
6	2.931	34.37	0.11	0.15	34.63	56.00	-21.37	QP

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

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7.3 Radiated Emission Method

7.3	.5 Radiated Ellission Method								
	Test Requirement:	FCC Part15 C S	Section 15.23	9(b)(c)/15.209)				
	Test Method:	ANSI C63.10:20	013						
	Test Frequency Range:	30MHz to 1100	MHz						
	Test site:	Measurement D	Distance: 3m						
	Receiver setup:	Frequency	Detector	RBW	VBW	Remark			
		30MHz- 1GHz	Quasi-peal	120KHz	300KHz	Quasi-peak Value			
		Above 1GHz	Peak	1MHz	3MHz	Peak Value			
		Above IGHZ	Peak	1MHz	10Hz	Average Value			
	Limit:	Freque	ency	Limit (dBuV	/m @3m)	Remark			
	(Field strength of the	00 4 M L - 4	07.01/14	48.0	0	Average Value			
	fundamental signal)	88.1MHz-10	U7.9IVIDZ	68.0	0	Peak Value			
	Limit:	Freque		Limit (dBuV	/m @3m)	Remark			
	(Spurious Emissions)	30MHz-8		40.0		Quasi-peak Value			
	,	88MHz-2		43.50		Quasi-peak Value			
		216MHz-9 960MHz-		46.0		Quasi-peak Value			
		96010172-	- IGHZ	54.0 54.0		Quasi-peak Value Average Value			
		Above 1	IGHz	74.0		Peak Value			
	Limit: (band edge)	harmonics, sha	ll be attenuate to the genera	ed by at least al radiated emi	50 dB belov	bands, except for w the level of the in Section 15.209,			
	Test setup:	Below 1GHz	3m		Anten Sea Ante				



	Report No.: GTSE15100190303
	Antenna Tower Horn Antenna Turn Table 1.5m A A Amplifier
Test Procedure:	The EUT was placed on the top of a rotating table (0.8m for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement data:



7.3.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
88.10	55.37	13.32	1.09	29.76	40.02	68.00	-27.98	Vertical
88.10	59.88	13.32	1.09	29.76	44.53	68.00	-23.47	Horizontal
98.00	57.41	15.03	1.18	29.71	43.91	68.00	-24.09	Vertical
98.00	61.37	15.03	1.18	29.71	47.87	68.00	-20.13	Horizontal
107.90	57.91	14.44	1.26	29.65	43.96	68.00	-24.04	Vertical
107.90	61.45	14.44	1.26	29.65	47.50	68.00	-20.50	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
88.10	42.42	13.32	1.09	29.76	27.07	48.00	-20.93	Vertical
88.10	46.71	13.32	1.09	29.76	31.36	48.00	-16.64	Horizontal
98.00	42.76	15.03	1.18	29.71	29.26	48.00	-18.74	Vertical
98.00	46.51	15.03	1.18	29.71	33.01	48.00	-14.99	Horizontal
107.90	43.89	14.44	1.26	29.65	29.94	48.00	-18.06	Vertical
107.90	46.15	14.44	1.26	29.65	32.20	48.00	-15.80	Horizontal



7.3.2 Spurious emissions

Test channel:	Lowest channel
---------------	----------------

Peak value:

i can value.								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
41.28	23.87	15.57	0.68	30.04	10.08	40.00	-29.92	Vertical
150.01	42.99	10.26	1.57	29.41	25.41	43.50	-18.09	Vertical
210.05	41.26	12.87	1.90	29.30	26.73	43.50	-16.77	Vertical
300.37	34.23	15.06	2.36	29.99	21.66	46.00	-24.34	Vertical
541.37	29.05	19.41	3.49	29.30	22.65	46.00	-23.35	Vertical
796.18	27.07	22.01	4.45	29.20	24.33	46.00	-21.67	Horizontal
47.83	24.02	15.38	0.75	30.01	10.14	40.00	-29.86	Horizontal
210.79	43.66	12.90	1.90	29.30	29.16	43.50	-14.34	Horizontal
270.38	43.97	14.38	2.22	29.80	30.77	46.00	-15.23	Horizontal
480.53	35.14	18.07	3.22	29.34	27.09	46.00	-18.91	Horizontal

Test channe	l:			М	iddle channel			
Peak value:								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
51.12	23.93	15.20	0.78	29.99	9.92	40.00	-30.08	Vertical
150.01	41.74	10.26	1.57	29.41	24.16	43.50	-19.34	Vertical
210.05	41.51	12.87	1.90	29.30	26.98	43.50	-16.52	Vertical
270.38	35.28	14.38	2.22	29.80	22.08	46.00	-23.92	Vertical
330.20	31.09	15.79	2.52	29.83	19.57	46.00	-26.43	Vertical
541.37	28.83	19.41	3.49	29.30	22.43	46.00	-23.57	Horizontal
41.13	23.53	15.57	0.67	30.04	9.73	40.00	-30.27	Horizontal
150.01	42.39	10.26	1.57	29.41	24.81	43.50	-18.69	Horizontal
214.51	42.56	13.03	1.93	29.35	28.17	43.50	-15.33	Horizontal
270.38	45.89	14.38	2.22	29.80	32.69	46.00	-13.31	Horizontal



Test channe	l:			Н	Highest channel				
Peak value:									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization	
76.24	32.29	10.03	1.00	29.82	13.50	40.00	-26.50	Vertical	
210.05	43.65	12.87	1.90	29.30	29.12	43.50	-14.38	Vertical	
270.38	46.84	14.38	2.22	29.80	33.64	46.00	-12.36	Vertical	
360.45	36.55	16.43	2.67	29.69	25.96	46.00	-20.04	Vertical	
766.06	33.36	21.63	4.33	29.20	30.12	46.00	-15.88	Vertical	
906.48	33.65	23.15	4.88	29.10	32.58	46.00	-13.42	Horizontal	
77.87	38.75	10.26	1.01	29.81	20.21	40.00	-19.79	Horizontal	
150.01	49.10	10.26	1.57	29.41	31.52	43.50	-11.98	Horizontal	
212.27	42.70	12.93	1.91	29.32	28.22	43.50	-15.28	Horizontal	
270.38	51.72	14.38	2.22	29.80	38.52	46.00	-7.48	Horizontal	

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.



7.3.3 Bandedge emissions

Quasi-peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
88.00	38.78	13.32	1.09	29.76	23.43	40.00	-16.57	Horizontal
88.00	34.32	13.32	1.09	29.76	18.97	40.00	-21.03	Vertical
108.00	38.29	14.44	1.26	29.65	24.34	43.50	-19.16	Horizontal
108.00	35.67	14.44	1.26	29.65	21.72	43.50	-21.78	Vertical

Remark:

1. Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor



7.4 20dB Occupy Bandwidth

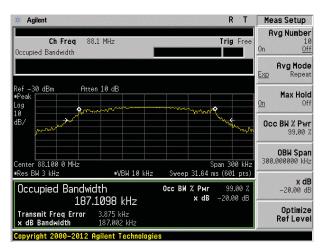
Test Requirement:	FCC Part15 C Section 15.215		
Test Method:	ANSI C63.10:2013		
Limit:	Operation Frequency range 2400MHz~2483.5MHz		
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

Measurement Data

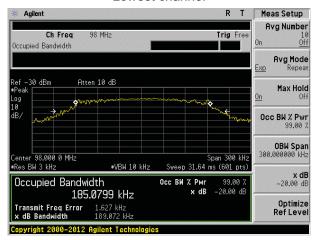
Test channel	20dB bandwidth(KHz)	Limit(KHz)	Result
Lowest	187.002	200	Pass
Middle	189.072	200	Pass
Highest	189.412	200	Pass

Test plot as follows:

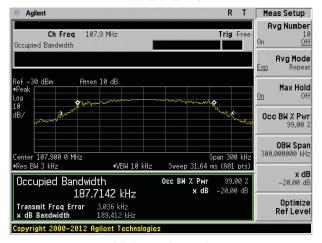




Lowest channel



Middle channel

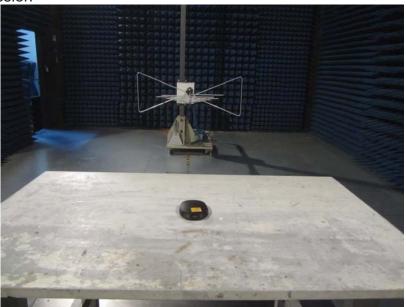


Highest channel



8 Test Setup Photo

Radiated Emission



Conducted Emission



9 EUT Constructional Details

Reference to the test report No.: GTSE15100190301

----- End -----