

GTS Global United Technology Services Co., Ltd.

Report No.: GTS201904000063F02

FCC Report

Applicant:	Coros Wearables Inc.		
Address of Applicant:	14511 FRANKLIN AVENUE SUITE 220, TUSTIN, CA 92780, TUSTIN, United States		
Manufacturer/Factory:	Dongguan YuanfengTechnology Co.,Ltd		
Address of Manufacturer/Factory:	FL. 1-3 and 5 Building A ,No.18, Industrial East Rd., Songshan Lake Development Zone, Dongguan, China		
Equipment Under Test (E	EUT)		
Product Name:	VERTIX		
Model No.:	B16		
Trade Mark:	COROS		
FCC ID:	2AEHH-B16		
Applicable standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.247		
Date of sample receipt:	April 08, 2019		
Date of Test:	April 09-18, 2019		
Date of report issued:	April 19, 2019		
Test Result :	PASS *		

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

Authorized Signature:

ñ **Robinson Lo**

Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.



2 Version

Version No.	Date	Description
00	April 19, 2019	Original

Prepared By:

Bill. yuan

Date:

April 19, 2019

Project Engineer

Check By:

Date: inson 15

Reviewer

April 19, 2019



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Output Power	15.247 (b)(3)	Pass
Channel 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

Remarks:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: Not applicable.
- 3. Test according to ANSI C63.10:2013

Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes		
Radiated Emission	9kHz ~ 30MHz	± 4.54dB	(1)		
Radiated Emission	30MHz ~ 1000MHz	± 5.34dB	(1)		
Radiated Emission	1GHz ~ 26.5GHz ± 5.34dB		(1)		
AC Power Line Conducted 0.15MHz ~ 30MHz ± 3.44dB					
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of 9	95%.		



5 General Information

5.1 General Description of EUT

Product Name:	VERTIX
Model No.:	B16
Test sample(s) ID:	GTS201904000063-1
Sample(s) Status	Engineer sample
Serial No.:	AEB312
Hardware version:	V1.10.0329
Software version:	V5.00
Operation Frequency:	2457MHz
Channel Number:	1
Modulation Type:	GFSK
Antenna Type:	Integral Antenna
Antenna Gain:	-2.67dBi(Declared by applicant)
Power Supply:	Battery: DC 3.8V, 490mAh
	Charge: DC 5V



5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode
u	the test voltage was tuned from 85% to 115% of the nominal rated supply e worst case was under the nominal rated supply condition. So the report just fa.

5.3 Description of Support Units

Manufacturer	Manufacturer Description		Serial Number
EAST	USB Charger	ES019-U120150XYF	N/A

5.4 Test Facility

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

• FCC — Registration No.: 381383

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 381383.

• 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.

• NVLAP (LAB CODE:600179-0)

Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP). LAB CODE:600179-0

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd. Address: No. 301-309, 3/F, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960



6 Test Instruments list

Rad	Radiated Emission:							
ltem	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	July. 03 2015	July. 02 2020		
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A		
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	June. 27 2018	June. 26 2019		
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	June. 27 2018	June. 26 2019		
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	June. 27 2018	June. 26 2019		
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	June. 27 2018	June. 26 2019		
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
8	Coaxial Cable	GTS	N/A	GTS213	June. 27 2018	June. 26 2019		
9	Coaxial Cable	GTS	N/A	GTS211	June. 27 2018	June. 26 2019		
10	Coaxial cable	GTS	N/A	GTS210	June. 27 2018	June. 26 2019		
11	Coaxial Cable	GTS	N/A	GTS212	June. 27 2018	June. 26 2019		
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	June. 27 2018	June. 26 2019		
13	Amplifier(2GHz-20GHz)	HP	84722A	GTS206	June. 27 2018	June. 26 2019		
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June. 27 2018	June. 26 2019		
15	Band filter	Amindeon	82346	GTS219	June. 27 2018	June. 26 2019		
16	Power Meter	Anritsu	ML2495A	GTS540	June. 27 2018	June. 26 2019		
17	Power Sensor	Anritsu	MA2411B	GTS541	June. 27 2018	June. 26 2019		
18	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	June. 27 2018	June. 26 2019		
19	Splitter	Agilent	11636B	GTS237	June. 27 2018	June. 26 2019		
20	Loop Antenna	ZHINAN	ZN30900A	GTS534	June. 27 2018	June. 26 2019		
21	Breitband hornantenne	SCHWARZBECK	BBHA 9170	GTS579	Oct. 20 2018	Oct. 19 2019		
22	Amplifier	TDK	PA-02-02	GTS574	Oct. 20 2018	Oct. 19 2019		
23	Amplifier	TDK	PA-02-03	GTS576	Oct. 20 2018	Oct. 19 2019		
24	PSA Series Spectrum Analyzer	Rohde & Schwarz	FSP	GTS578	June. 27 2018	June. 26 2019		



RF C	RF Conducted Test:						
ltem	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	June. 27 2018	June. 26 2019	
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019	
3	Spectrum Analyzer	Agilent	E4440A	GTS533	June. 27 2018	June. 26 2019	
4	MXG vector Signal Generator	Agilent	N5182A	GTS567	June. 27 2018	June. 26 2019	
5	ESG Analog Signal Generator	Agilent	E4428C	GTS568	June. 27 2018	June. 26 2019	
6	USB RF Power Sensor	DARE	RPR3006W	GTS569	June. 27 2018	June. 26 2019	
7	RF Switch Box	Shongyi	RFSW3003328	GTS571	June. 27 2018	June. 26 2019	
8	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	June. 27 2018	June. 26 2019	

Conducted Emission						
ltem	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Shielding Room	ZhongYu Electron	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 27 2018	June. 26 2019
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 27 2018	June. 26 2019
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 27 2018	June. 26 2019
5	Coaxial Cable	GTS	N/A	GTS227	June. 27 2018	June. 26 2019
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
7	Thermo meter	KTJ	TA328	GTS233	June. 27 2018	June. 26 2019
8	Absorbing clamp	Elektronik- Feinmechanik	MDS21	GTS229	June. 27 2018	June. 26 2019

Gene	General used equipment:							
ltem	Test Equipment	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)				
1	Humidity/ Temperature Indicator	KTJ	TA328	GTS243	June. 27 2018	June. 26 2019		
2	Barometer	ChangChun	DYM3	GTS255	June. 27 2018	June. 26 2019		



7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement:	
responsible party shall be us antenna that uses a unique o	be designed to ensure that no antenna other than that furnished by the sed with the device. The use of a permanently attached antenna or of an coupling to the intentional radiator, the manufacturer may design the unit so e replaced by the user, but the use of a standard antenna jack or electrical
15.247(c) (1)(i) requirement	t:
operations may employ trans	2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point smitting antennas with directional gain greater than 6dBi provided the power of the intentional radiator is reduced by 1 dB for every 3 dB that the na exceeds 6dBi.
E.U.T Antenna:	
The antenna is INT antenna, for details	, the best case gain of the antenna is -2.67dBi, reference to the appendix II

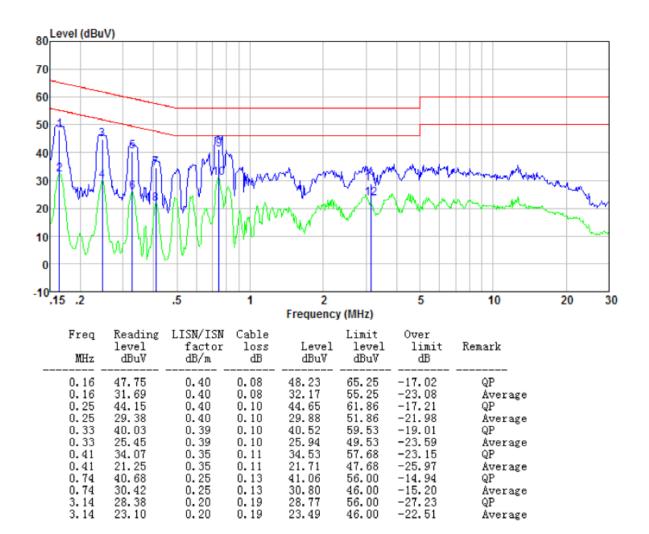


7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207						
Test Method:	ANSI C63.10:2013						
Test Frequency Range:	150KHz to 30MHz						
Receiver setup:	RBW=9KHz, VBW=30KHz, Sweep time=auto						
Limit:		Limit (dBuV)					
	Frequency range (MHz)	Quasi-peak		erage			
	0.15-0.5 66 to 56* 0.5-5 56 5-30 60 * Decreases with the logarithm of the frequency. Reference Plane Image: Second colspan="2">Image: Second colspan="2">Second colspan="2"Second colspan="2">Second colspan="2"Second colspan="2"Second colspan="2">Second colspan="2"Second colspan="2">Second colspan="2"Second colspan="2">Second colspan="2"Second colspan="2"Second colspan="2">Second colspan="2"Second colspan="2"Second colspan="2">Second colspan="2"Second colspan="2"Second colspan="2">Second colspan="2"Second colspan="2"Second colspan="2"Second colspan="2">Second colspan="2"Second colspan="2"Second colspan="2"Second colspan="2">Second colspan="2"Second colspan="2"Second colspan="2"Second colspan="2"Second colspan="2"Second colspan="2"Second colspan="2">Second colspan="2"Second colspan="2">Second colspan="2"Second			to 46*			
				46			
				50			
—		n of the frequency.					
Test setup:	Reference Plane						
Test procedure:	 line impedance stabilization 50ohm/50uH coupling imper 2. The peripheral devices are LISN that provides a 50ohn termination. (Please refer to photographs). 	a network (L.I.S.N.). edance for the meas also connected to the h/50uH coupling imp the block diagram checked for maximus d the maximum emis all of the interface c	This provide uring equipr he main pow bedance with of the test s m conducte ssion, the re bables must	es a nent. er through a 50ohm etup and d ative be changed			
Test Instruments:	Refer to section 6.0 for details						
Test mode:	Refer to section 5.2 for details						
Test environment:	Temp.: 25 °C Hum	nid.: 52%	Press.:	1012mbar			
Test voltage:	AC 120V, 60Hz	·					
Test results:	Pass						

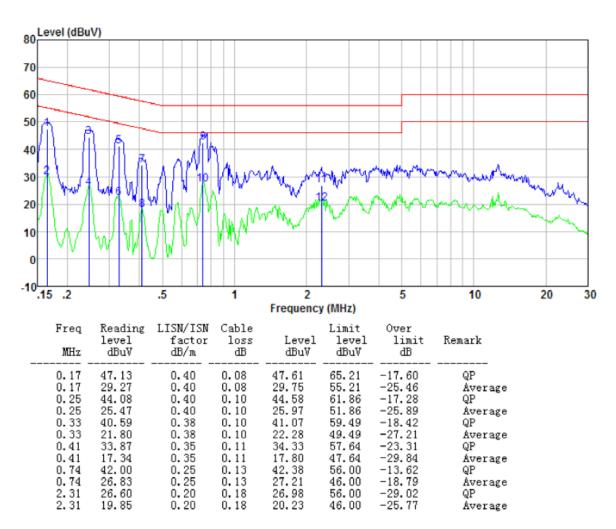


Measurement data Line:





Neutral:



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.



7.3 Conducted Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)			
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05			
Limit:	30dBm			
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 5.2 for details			
Test results:	Pass			

Measurement Data

Test Frequency	Peak Output Power (dBm)	Limit(dBm)	Result
2457MHz	-1.987	30.00	Pass

Test plot as follows:



2457MHz



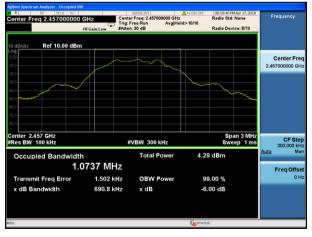
7.4 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)			
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05			
Limit:	>500KHz			
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 5.2 for details			
Test results:	Pass			

Measurement Data

Test Frequency	Channel Bandwidth (MHz)	annel Bandwidth (MHz) Limit(KHz)	
2457MHz	0.691	>500	Pass

Test plot as follows:







7.5 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)		
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05		
Limit:	8dBm/3kHz		
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 5.2 for details		
Test results:	Pass		

Measurement Data

Test Frequency	Power Spectral Density (dBm/3kHz)	Limit(dBm/3kHz)	Result	
2457MHz	-19.312	8.00	Pass	

Test plot as follows:



2457MHz

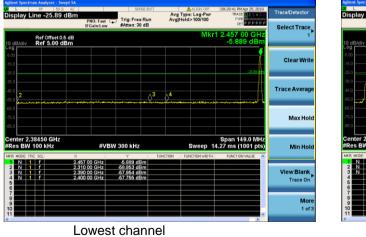


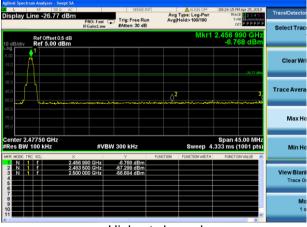
7.6 Band edges

7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
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 5.2 for details					
Test results:	Pass					

Test plot as follows:





Highest channel



7.6.2 Radiated Emission Method Test Requirement: FCC Part15 C Section 15.209 and 15.205 Test Method: ANSI C63.10:2013 All of the restrict bands were tested, only the worst band's (2310MHz to Test Frequency Range: 2500MHz) data was showed. Test site: Measurement Distance: 3m Receiver setup: Frequency Detector RBW VBW Value Peak 1MHz 3MHz Peak Above 1GHz RMS 1MHz 3MHz Average Limit: Limit (dBuV/m @3m) Frequency Value 54.00 Average Above 1GHz 74.00 Peak Test setup: < 3m > Test Antenna+ < 1m ... 4m > EUT. Turn Table ~150cm -A Receiver+ Preamplifier+ Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. 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. 5. 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. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.2 for details

Pass

Test results:



Measurement Data

Report No.: GTS201904000063F02

Test Freque	Test Frequency: 2457MHz								
Peak value:	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	
2310.00	39.29	27.59	5.38	30.18	42.08	74.00	-31.92	Horizontal	
2390.00	53.56	27.58	5.39	30.18	56.35	74.00	-17.65	Horizontal	
2483.50	40.96	27.53	5.47	29.93	44.03	74.00	-29.97	Horizontal	
2500.00	40.82	27.55	5.49	29.93	43.93	74.00	-30.07	Horizontal	
2310.00	39.49	27.59	5.38	30.18	42.28	74.00	-31.72	Vertical	
2390.00	55.21	27.58	5.39	30.18	58.00	74.00	-16.00	Vertical	
2483.50	41.21	27.53	5.47	29.93	44.28	74.00	-29.72	Vertical	
2500.00	41.48	27.55	5.49	29.93	44.59	74.00	-29.41	Vertical	
Average va	lue:								
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	
2310.00	30.65	27.59	5.38	30.18	33.44	54.00	-20.56	Horizontal	
2390.00	38.67	27.58	5.39	30.18	41.46	54.00	-12.54	Horizontal	
2483.50	33.43	27.53	5.47	29.93	36.50	54.00	-17.50	Horizontal	
2500.00	31.95	27.55	5.49	29.93	35.06	54.00	-18.94	Horizontal	
2310.00	30.34	27.59	5.38	30.18	33.13	54.00	-20.87	Vertical	
2390.00	38.58	27.58	5.39	30.18	41.37	54.00	-12.63	Vertical	
2483.50	34.35	27.53	5.47	29.93	37.42	54.00	-16.58	Vertical	
2500.00	31.57	27.55	5.49	29.93	34.68	54.00	-19.32	Vertical	

Remarks:

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

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



7.7 Spurious Emission

7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V05					
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.					
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 5.2 for details					
Test results:	Pass					

Test plot as follows:



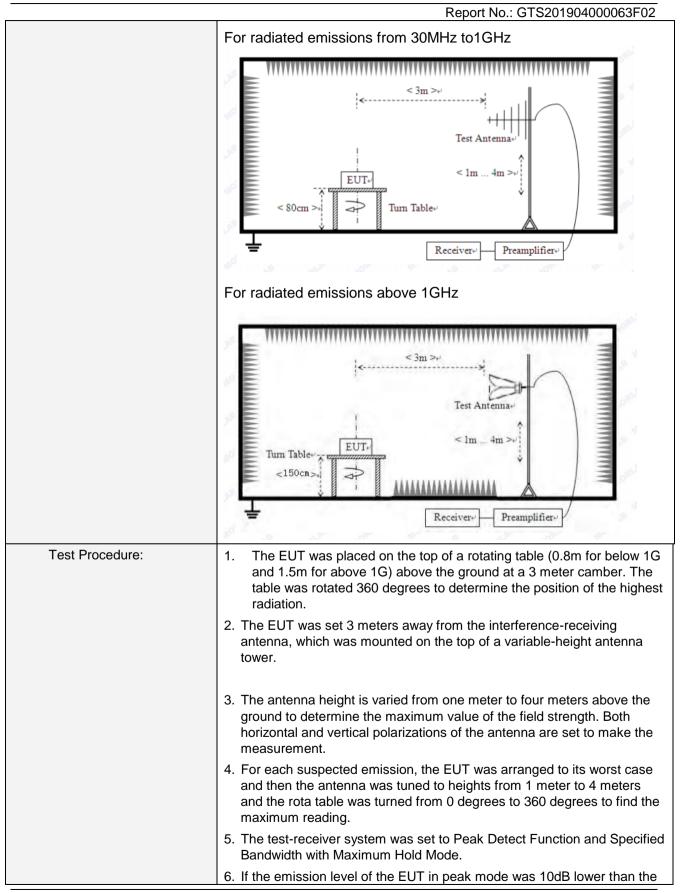
30MHz~25GHz



7.7.2 Radiated Emission Method

FCC Part15 C Section 15.209						
ANSI C63.10:2013						
9kHz to 25GHz						
Measurement Distance: 3m						
Frequency	Detector	RB	W	VBW	Value	
9KHz-150KHz	PK,AV,QP	200	Hz	600Hz	PK,AV,QP	
150KHz-30MHz	PK,AV,QP	9K	KHz 30KH		PK,AV,QP	
30MHz-1GHz	Quasi-peal	120	КНz	300KH	z Quasi-peak	
Above 1GHz	Peak	1M	Hz	3MHz	Peak	
Above TGHZ	Peak	1M	Hz	10Hz	Average	
Frequency	Limit	uV/m)	V	/alue	Measurement Distance	
0.009MHz-0.490M	Hz 2400/	(KHz)		QP	300m	
0.490MHz-1.705M	Hz 24000/	F(KHz)		QP	30m	
1.705MHz-30MH	z 3	0		QP	30m	
30MHz-88MHz	1	00	QP			
		150				
216MHz-960MH	z 2			QP	3m	
960MHz-1GHz	5			QP		
Above 1GHz				-		
	50	00	F	Peak		
For radiated emissions from 9kHz to 30MHz						
	ANSI C63.10:2013 9kHz to 25GHz Measurement Distar Frequency 9KHz-150KHz 150KHz-30MHz 30MHz-1GHz Above 1GHz Above 1GHz 0.009MHz-0.490M 0.490MHz-1.705M 1.705MHz-30MH 30MHz-88MHz 88MHz-216MHz 216MHz-960MH 960MHz-1GHz Above 1GHz For radiated emiss	FCC Part15 C Section 15.209 ANSI C63.10:2013 9kHz to 25GHz Measurement Distance: 3m Frequency Detector 9KHz-150KHz PK,AV,QP 150KHz-30MHz PK,AV,QP 30MHz-1GHz Quasi-peak Above 1GHz Peak Peak Peak 0.009MHz-0.490MHz 2400/F 0.490MHz-1.705MHz 2400/F 0.490MHz-1.705MHz 2400/F 1.705MHz-30MHz 3 30MHz-88MHz 10 88MHz-216MHz 15 216MHz-960MHz 20 960MHz-1GHz 50 For radiated emissions from 9k 50 For radiated emissions from 9k	FCC Part15 C Section 15.209 ANSI C63.10:2013 9kHz to 25GHz Measurement Distance: 3m Frequency Detector RB 9KHz-150KHz PK,AV,QP 200 150KHz-30MHz PK,AV,QP 9K 30MHz-1GHz Quasi-peak 120 Above 1GHz Peak 1M Peak 1M 0.009MHz-0.490MHz 2400/F(KHz) 0.490MHz-1.705MHz 2400/F(KHz) 1.705MHz-30MHz 30 30MHz-88MHz 100 88MHz-216MHz 150 216MHz-960MHz 200 960MHz-1GHz 500 Above 1GHz 500 Above 1GHz 500 Sourd Sourd Sourd Sourd Sourd So	ANSI C63.10:2013 9kHz to 25GHz Measurement Distance: 3m Frequency Detector RBW 9KHz-150KHz PK,AV,QP 200Hz 150KHz-30MHz PK,AV,QP 9KHz 30MHz-1GHz Quasi-peak 120KHz Above 1GHz Peak 1MHz Peak 1MHz Peak 1MHz 0.009MHz-0.490MHz 2400/F(KHz) 0.490MHz-1.705MHz 2400/F(KHz) 0.490MHz-1.705MHz 24000/F(KHz) 1.705MHz-30MHz 30 1.705MHz-30MHz 30 30 30 30MHz-88MHz 100 88MHz-216MHz 150 216MHz-960MHz 200 960MHz-1GHz 500 Above 1GHz 500 Av 5000 F 5000 F For radiated emissions from 9kHz to 30MH 4 4 4	ANSI C63.10:2013 9kHz to 25GHz Measurement Distance: 3m Frequency Detector RBW VBW 9KHz-150KHz PK,AV,QP 200Hz 600Hz 150KHz-30MHz PK,AV,QP 9KHz 30KHz 30MHz-1GHz Quasi-peak 120KHz 300KHz Above 1GHz Peak 1MHz 3MHz Peak 1MHz 10Hz 0.009MHz-0.490MHz 2400/F(KHz) QP 0.490MHz-1.705MHz 24000/F(KHz) QP 1.705MHz-30MHz 30 QP 30MHz-88MHz 100 QP 30MHz-88MHz 100 QP 216MHz-960MHz 200 QP 216MHz-960MHz 200 QP 216MHz-960MHz 500 Average 5000 Peak For radiated emissions from 9kHz to 30MHz	







	Report No.: GTS201904000063F02
	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 5.2 for details
Test voltage:	DC 3.8V
Test results:	Pass

Measurement data:

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

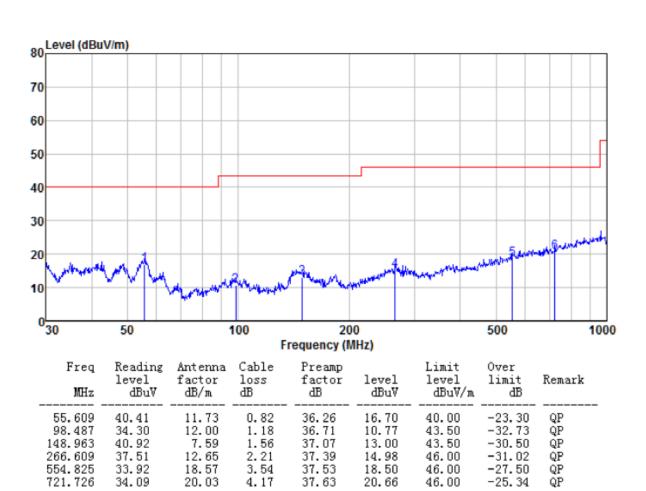
■ 9kHz~30MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.



Below 1GHz

Mode: Transmitting mode Polarization:	Horizontal
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37.63

20.66

46.00

34.09

20.03

4.17

QP

-25.34



300.367

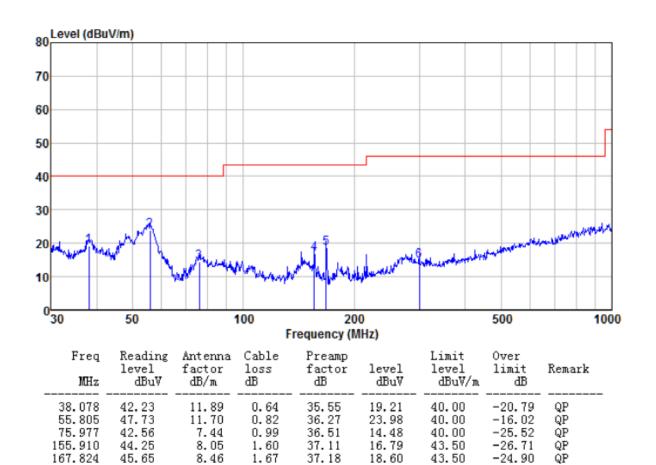
36.33

13.60

2.36

Report No.: GTS201904000063F02

Mode:	Transmitting mode	Polarziation:	Vertical	



37.42

14.87

46.00

-31.13

QP



Above 1GHz

Report No.: GTS201904000063F02

Test Frequer	Test Frequency: 2457MHz							
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
4914.00	39.49	31.88	8.69	32.14	47.92	74.00	-26.08	Vertical
7371.00	31.25	36.45	11.75	31.72	47.73	74.00	-26.27	Vertical
9828.00	31.47	38.61	14.32	31.75	52.65	74.00	-21.35	Vertical
12285.00	*					74.00		Vertical
14742.00	*					74.00		Vertical
4914.00	40.05	31.88	8.69	32.14	48.48	74.00	-25.52	Horizontal
7371.00	32.23	36.45	11.75	31.72	48.71	74.00	-25.29	Horizontal
9828.00	29.75	38.61	14.32	31.75	50.93	74.00	-23.07	Horizontal
12285.00	*					74.00		Horizontal
14742.00	*					74.00		Horizontal
Average val	ue:							
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
4914.00	28.11	31.88	8.69	32.14	36.54	54.00	-17.46	Vertical
7371.00	19.42	36.45	11.75	31.72	35.90	54.00	-18.10	Vertical
9828.00	18.71	38.61	14.32	31.75	39.89	54.00	-14.11	Vertical
12285.00	*					54.00		Vertical
14742.00	*					54.00		Vertical
4914.00	29.62	31.88	8.69	32.14	38.05	54.00	-15.95	Horizontal
7371.00	21.43	36.45	11.75	31.72	37.91	54.00	-16.09	Horizontal
9828.00	19.31	38.61	14.32	31.75	40.49	54.00	-13.51	Horizontal
12285.00	*					54.00		Horizontal
14742.00	*					54.00		Horizontal

Remarks:

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

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



8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----