FCC PART 15C TEST REPORT FOR CERTIFICATION On Behalf of

Chunghsin Technology Group CO.,LTD

8" Android Tablet

Model Number: ONA19TB002

Additional Model: ONA19TB010, 100005207

FCC ID: 2AE2WT0815M

Prepared for:	Chunghsin Technology Group CO.,LTD			
	No. 618-2 GONGREN WEST ROAD, JIAOJIANG AREA, TAIZHOU CITY,			
	ZHEJIANG, CHINA			
Prepared By:	EST Technology Co., Ltd.			
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China			
Tel: 86-769-83081888-808				

Report Number:	ESTE-R1901013-4
Date of Test:	Aug. 13~28, 2019
Date of Report:	Aug. 28, 2019



EST Technology Co., Ltd Report No. ESTE-R1901013-4

TABLE OF CONTENTS

Descri	iption	1	Page
TEST R	EPORT	Γ VERIFICATION	3
1.	GEN	NERAL INFORMATION	4
		Description of Device (EUT)	
2.	Sum	MMARY OF TEST	5
	2.1.	Summary of test result	
	2.2.	Test Facilities	
	2.3.	Measurement uncertainty	7
	2.4.	Assistant equipment used for test	7
	2.5.	Block Diagram	7
	3.1.	Test mode	8
	3.2.	Channel List	8
	3.3.	Test Equipment	9
4.	RAD	DIATED EMISSIONS	10
	4.1.	Limit	10
	4.2.	Block Diagram of Test setup	11
	4.3.	Test Procedure	12
	4.4.	Test Result	12
	4.5.	Test Data	13
5.	TES	ST SETUP PHOTO	16
6	PHC	OTO FUT	17

FCT Tooknology Co

Address: No. 618-2 GONGREN WEST ROAD, JIAOJIANG AREA, TAIZHOU CITY, ZHEJIANG, CHINA E.U.T: 8" Android Tablet Model Number: ONA19TB002 Additional Model: ONA19TB010, 100005207 (They are identical except model name only) Power Supply: DC 5V From Adapter Input AC 100~240V, 50/60Hz, 0.3A DC 3.7V From battery Test Voltage: DC 5V From Adapter Input AC 120V/60Hz, 0.3A DC 5V From Adapter Input AC 240V/50Hz, 0.3A DC 5V From Adapter Input AC 240V/50Hz, 0.3A Trade Name: Onn Serial No.: FCC Rules and Regulations Part 15 Subpart C:2018 ANSI C63.10:2013 Test Result: The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Prepared by: Reviewed by: Reviewed by: Date: Acg. 28, 2019 Reviewed by: Date: Acg. 28, 2019 Reviewed by: Date: Acg. 28, 2019	•	EST Techno	logy Co., Ltd	d.
Address: No. 618-2 GONGREN WEST ROAD, JIAOJIANG AREA, TAIZHOU CITY, ZHEJIANG, CHINA E.U.T: 8" Android Tablet Model Number: ONA19TB002 Additional Model: ONA19TB010, 100005207 (They are identical except model name only) Power Supply: DC 5V From Adapter Input AC 100~240V, 50/60Hz, 0.3A DC 3.7V From battery Test Voltage: DC 5V From Adapter Input AC 120V/60Hz, 0.3A DC 5V From Adapter Input AC 240V/50Hz, 0.3A Trade Name: onn Serial No.: FCC Rules and Regulations Part 15 Subpart C:2018 ANSI C63.10:2013 Test Result: The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: Aug. 28, 2019 Prepared by: Reviewed by: In 9 Reviewed by:		No. 618-2 GONGREN WES		IANG AREA, TAIZHOU CITY,
Model Number: ONA19TB002 Additional Model: ONA19TB010, 100005207 (They are identical except model name only) Power Supply: DC 5V From Adapter Input AC 100~240V, 50/60Hz, 0.3A DC 3.7V From battery Test Voltage: DC 5V From Adapter Input AC 120V/60Hz, 0.3A DC 5V From Adapter Input AC 240V/50Hz, 0.3A DC 5V From Adapter Input AC 220V/60Hz, 0.3A DC 5V From Adapter Input AC 120V/60Hz, 0.3A DC 5V From Adapter Input AC 1	Manufacturer: Address:	No. 618-2 GONGREN WES	p CO.,LTD T ROAD, JIAOJ	IANG AREA, TAIZHOU CITY,
Additional Model: ONA19TB010, 100005207 (They are identical except model name only) Power Supply: DC 5V From Adapter Input AC 100~240V, 50/60Hz, 0.3A DC 3.7V From battery Test Voltage: DC 5V From Adapter Input AC 120V/60Hz, 0.3A DC 5V From Adapter Input AC 240V/50Hz, 0.3A DC 5V From Adapter Input AC 240V/50Hz, 0.3A DC 5V From Adapter Input AC 240V/50Hz, 0.3A Trade Name: Onn Serial No.: FCC Rules and Regulations Part 15 Subpart C:2018 ANSI C63.10:2013 Test Result: The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Prepared by: Reviewed by:	E.U.T:	8" Android Tablet		
(They are identical except model name only) Power Supply: DC 5V From Adapter Input AC 100~240V, 50/60Hz, 0.3A DC 3.7V From battery Test Voltage: DC 5V From Adapter Input AC 120V/60Hz, 0.3A DC 5V From Adapter Input AC 240V/50Hz, 0.3A DC 5V From Adapter Input AC 240V/50Hz, 0.3A DC 5V From Adapter Input AC 240V/50Hz, 0.3A Trade Name: onn Serial No.: FCC Rules and Regulations Part 15 Subpart C:2018 ANSI C63.10:2013 Test Result: The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: Aug. 28, 2019 Prepared by: Reviewed by: Reviewed by: In 9 Revie	Model Number:	ONA19TB002		
Test Voltage: DC 5V From Adapter Input AC 120V/60Hz, 0.3A DC 5V From Adapter Input AC 240V/50Hz, 0.3A Trade Name: onn Serial No.: Pate of Receipt: Aug. 13, 2019 Date of Test: Aug. 13-28, 2019 FCC Rules and Regulations Part 15 Subpart C:2018 ANSI C63.10:2013 The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: Aug. 28, 2019 Prepared by: Reviewed by: Reviewed by: Iceman Hu Manager Other Aspects:	Additional Model:	(They are identical except m		
DC 5V From Adapter Input AC 240V/50Hz, 0.3A Trade Name: onn Serial No.: Date of Receipt: Aug. 13, 2019 Date of Test: Aug. 13~28, 2019 Test Specification: FCC Rules and Regulations Part 15 Subpart C:2018 ANSI C63.10:2013 Test Result: The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: Aug. 28, 2019 Prepared by: Reviewed by: Prepared by: Reviewed by: Prepared By:	Power Supply:		AC 100~240V, 50	0/60Hz, 0.3A
Date of Receipt: Aug. 13, 2019 Date of Test: Aug. 13~28, 2019 FCC Rules and Regulations Part 15 Subpart C:2018 ANSI C63.10:2013 Test Result: The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: Aug. 28, 2019 Prepared by: Reviewed by: Reviewed by: Tony / Engineer Other Aspects:	Test Voltage:	DC 5V From Adapter Input A DC 5V From Adapter Input A	AC 120V/60Hz, 0 AC 240V/50Hz, 0	0.3A 0.3A
Test Specification: FCC Rules and Regulations Part 15 Subpart C:2018 ANSI C63.10:2013 The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: Aug. 28, 2019 Prepared by: Reviewed by: Reviewed by: Tony / Engineer Other Aspects:	Trade Name:	onn	Serial No.:	
Test Result: The device described above is tested by EST Technology Co., Ltd. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: Aug. 28, 2019 Prepared by: Reviewed by: Reviewed by: Tony / Engineer Other Aspects:	Date of Receipt:	Aug. 13, 2019	Date of Test:	Aug. 13~28, 2019
measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd. Date: Aug. 28, 2019 Prepared by: Reviewed by: Reviewed by: Tony / Engineer Tony / Engineer Other Aspects:	Test Specification:	FCC Rules and Regulations I ANSI C63.10:2013	Part 15 Subpart C	2:2018
Prepared by: Reviewed by: Ring / Assistant Tony / Engineer Reviewed by: Iceman Hu / Manager Other Aspects:	Test Result:	measurement results were co Ltd. was assumed full respon measurements. Also, this repo with the FCC Rules and Regu This report applies to above t	ntained in this tessibility for the acoust shows that the plations Part 15 Seested sample only	st report and EST Technology Co., curacy and completeness of these EUT to be technically compliance subpart C requirements.
Ring / Assistant Tony / Engineer Iceman Hu / Manager Other Aspects:				Date: Aug. 28, 2019
Other Aspects:	1)			Approved by:
Other Aspects:	Ring / Assistant	Tony / Engineer		Iceman Hu / Manager
	Other Aspects:		erantag garan algoglessa and a company of the same of	

Because only the add IC and model number, so just re-tested spurious emissions (30-1000Mhz), other test item needn't re-tested, test data refer to test report "ESTE-R1901013". (previous IC model no.: SUTJ96VZZ7D6EKKFB-107FT(PA053-107BT)

(new IC model no: MT29TZZZ7D7DKLAH-107 (PA Series PA074)

Abbreviations: OK/P=passed

fail/F=failed

n.a/N=not applicable

E.U.T=equipment under tested

This test report is based on a single evaluation of one sample of above mentioned products, It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	8" Android Tablet
FCC ID	:	2AE2WT0815M
Model Number	:	ONA19TB002
Operation frequency	:	2402MHz~2480MHz
Number of channel	:	79
Antenna	:	Internal antenna (Antenna Gain:1.27 dBi)
Modulation	:	BT BDR: GFSK BT EDR: π/4-DQPSK BT EDR: 8-DPSK
Sample Type	:	Prototype production



EST Technology Co., Ltd Report No.ESTE-R1901013-4

2. SUMMARY OF TEST

2.1. Summary of test result

Description of Test Item	Standard	Results
Maximum Peak Output Power	FCC Part 15: 15.247(b)(1) KDB 558074	N/A
20dB Bandwidth	FCC Part 15: 15.247a1 KDB 558074	N/A
Carrier Frequency Separation	FCC Part 15: 15.247(a)(1) KDB 558074	N/A
Number Of Hopping Channel	FCC Part 15: 15.247(a)(1)(iii) KDB 558074	N/A
Dwell Time	FCC Part 15: 15.247(a)(1)(iii) KDB 558074	N/A
Radiated Emissions	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10:2013 KDB 558074	PASS
Band Edge Compliance	FCC Part 15: 15.247(d) KDB 558074	N/A
Power Line Conducted Emissions	FCC Part 15: 15.207 ANSI C63.10:2013 KDB 558074	N/A
Antenna requirement	FCC Part 15: 15.203	N/A

Note: KDB 558074 D01 15.247 Meas Guidance v05



EST Technology Co., Ltd Report No. ESTE-R1901013-4 Page 5 of 26

2.2. Test Facilities

EMC Lab : Certificated by CNAS, CHINA

Registration No.: L5288

Date of registration: November 13, 2017

Certificated by FCC, USA

Designation Number: CN1215

Test Firm Registration Number: 722932

Date of registration: November 21, 2017

Certificated by A2LA, USA Registration No.: 4366.01

Date of registration: November 07, 2017

Certificated by Industry Canada CAB identifier No.: CN0035

Date of registration: January 04, 2019

Certificated by VCCI, Japan

Registration No.: R-13663; C-14103 Date of registration: July 25, 2017

This Certificate is valid until: July 24, 2020

Certificated by TUV Rheinland, Germany Registration No.: UA 50413872 0001 Date of registration: July 31, 2018

Certificated by TUV/PS, Shenzhen

Registration No.: SCN1017

Date of registration: January 27, 2011

Certificated by Intertek ETL SEMKO Registration No.: 2011-RTL-L2-64 Date of registration: April 28, 2011

Certificated by Nemko, Hong Kong

Registration No.: 175193

Date of registration: May 4, 2011

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong,

China



2.3. Measurement uncertainty

Test Item	Uncertainty
Uncertainty for Conduction emission test	±3.48dB
Uncertainty for spurious emissions test	±4.60 dB(Polarize: H)
(30MHz-1GHz)	±4.68 dB(Polarize: V)
Uncertainty for spurious emissions test (1GHz to 18GHz)	±4.96dB
Uncertainty for radio frequency	7×10 ⁻⁸
Uncertainty for conducted RF Power	0.20dB
Uncertainty for Power density test	0.26dB

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2.4. Assistant equipment used for test

2.4.1. Adapter

M/N : BSY01J3050200U U

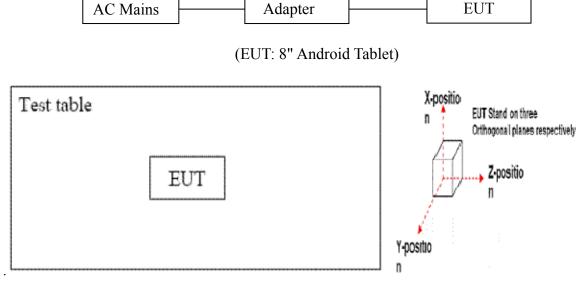
Manufacturer : Onn

Input : AC 100-240V, 50/60Hz, 0.3A

Output : DC 5.0V, 2.0A

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground. EUT was be set into TX test mode by software before test.



Note: We test X-axis, Y-axis, and Z-axis,. The Y-axis is the worst mode, so only theworst mode test data was included in the report.



3.1. Test mode

The test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode

Mode	Channel	Frequency
	Low	2402MHz
GFSK	Middle	2441MHz
	High	2480MHz
	Low	2402MHz
8-DPSK	Middle	2441MHz
	High	2480MHz

3.2. Channel List

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
No.	(MHz)	No.	(MHz)	No.	(MHz)	No.	(MHz)
1	2402	2	2403	3	2404	4	2405
5	2406	6	2407	7	2408	8	2409
9	2410	10	2411	11	2412	12	2413
13	2414	14	2415	15	2416	16	2417
17	2418	18	2419	19	2420	20	2421
21	2422	22	2423	23	2424	24	2425
25	2426	26	2427	27	2428	28	2429
29	2430	30	2431	31	2432	32	2433
33	2434	34	2435	35	2436	36	2437
37	2438	38	2439	39	2440	40	2441
41	2442	42	2443	43	2444	44	2445
45	2446	46	2447	47	2448	48	2449
49	2450	50	2451	51	2452	52	2453
53	2454	54	2455	55	2456	56	2457
57	2458	58	2459	59	2460	60	2461
61	2462	62	2463	63	2464	64	2465
65	2466	66	2467	67	2468	68	2469
69	2470	70	2471	71	2472	72	2473
73	2474	74	2475	75	2476	76	2477
77	2478	78	2479	79	2480	-	-



3.3. Test Equipment

3.3.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Calibration	Last Cal.	Next Cal.
				Body		
EMI Test Receiver	Rohde	ESHS30	832354	CEPREI	June 14,19	1 Year
	& Schwarz					
Artificial Mains Network	Rohde	ENV216	101260	CEPREI	June 14,19	1 Year
	& Schwarz					
Pulse Limiter	Rohde	ESH3-Z2	101100	CEPREI	June 14,19	1 Year
	& Schwarz					
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

3.3.2. For radiated emission test(9 kHz-30MHz)

Equipment	Manufacturer	Model No.	Serial No.	Calibration	Last Cal.	Next Cal.
				Body		
EMI Test	Rohde	ESR7	101780	CEPREI	June 14,19	1 Year
Receiver	& Schwarz					
Active Loop Antenna	SCHWAREB	FMZB 1519B	1519B-088	N/A	June 14,19	1 Year
	ECK					
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

3.3.3. For radiated emissions test (30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Calibration	Last Cal.	Next Cal.
				Body		
EMI Test	Rohde	ESR7	101780	CEPREI	June 14,19	1 Year
Receiver	& Schwarz					
Bilog Antenna	Teseq	CBL 6111D	27090	CEPREI	June 14,19	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

3.3.4. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.		Last Cal.	Next Cal.
				Body		
Horn Antenna	SCHWARZB	BBHA 9120 D	BBHA912	CEPREI	June 14,19	1 Year
	ECK		0D1002			
Horn Antenna	SCHWARZB	BBHA9170	BBHA917	CEPREI	June 14,19	1Year
	ECK		0242			
Signal Amplifier	SCHWARZB	BBV9718	9718-212	CEPREI	June 14,19	1 Year
	ECK					
Spectrum Analyzer	Rohde	FSV	103173	CEPREI	June 14,19	1 Year
	&Schwarz					
PSA Series Spertrum	Agilent	E4447A	MY50180	CEPREI	June 14,19	1Year
Analyzer			031			
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

3.3.5. For connect EUT antenna terminal test

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Nectrum Analyzer	Rohde &Schwarz	FSV	103173	CEPREI	June 14,19	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	CEPREI	June 14,19	1 Year



EST Technology Co., Ltd Report No. ESTE-R1901013-4 Page 9 of 26

4. RADIATED EMISSIONS

4.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

MHz	MHz	MHz	GHz	
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15	
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46	
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75	
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5	
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2	
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5	
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7	
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4	
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5	
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2	
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4	
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12	
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0	
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8	
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5	
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(2)	

15.209 Limit

Frequency (MHz)	Field Strength(μV/m)	Distance(m)	
0.009-0.490	2400/F(kHz)	300	
0.490-1.705	24000/F(kHz)	30	
1.705-30	30	30	
30-88	100	3	
88-216	150	3	
216-960	200	3	
Above 960	500	3	

Remark : (1) Emission level $dB\mu V = 20 \log Emission level \mu V/m$

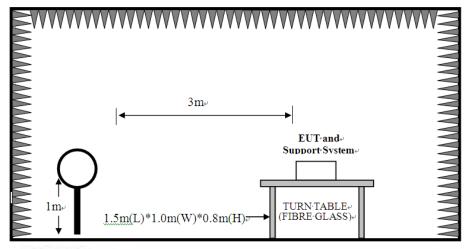
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.



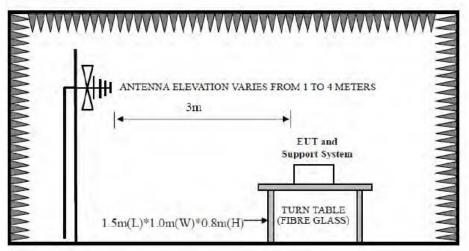
EST Technology Co., Ltd Report No. ESTE-R1901013-4 Page 10 of 26

4.2. Block Diagram of Test setup

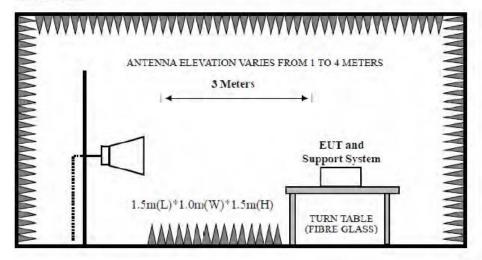
9kHz~30MHz



30~1000MHz



Above 1GHz



4.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground for 9kHz~1000MHz test, and which is 1.5 meter high above ground for above 1GHz test. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

PEAK detector, 1MHz/1MHz for PAEK measurement, PEAK detector, 1MHz/10Hz for Average measurement

The frequency range from 30MHz to 10th harmonic (25GHz) are checked.

4.4. Test Result

Pass

Note: 1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.

2. The frequency 2402MHz . 2441MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.



4.5. Test Data

9 kHz – 30 MHz

Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

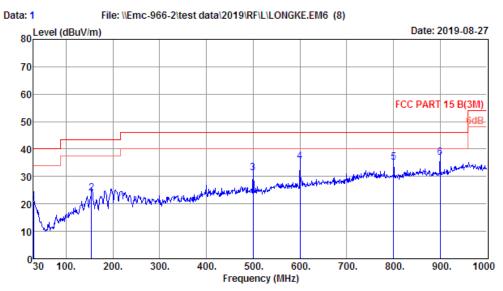


30 MHz - 1000 MHz

EST Technology

Chilingxiang, Qishantou, Santun, Houjie, Dongguan,Guangdong,China Tel:+86-769-83081888

Fax:+86-769-83081878



Site no. : 2# 966 chamber Data no. : 1

Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:24.5'; Humi:54%; Press:101.52kPa

Engineer : Frank

EUT : 8'' Android Tablet
Power : DC 3.7V From Battery

M/N : ONA19TB002 Test Mode : TX Mode

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.40	0.14	2.55	21.09	40.00	18.91	QP
2	154.16	11.36	1.11	11.47	23.94	43.50	19.56	QP
3	499.48	18.28	2.66	10.23	31.17	46.00	14.83	QP
4	600.36	20.40	2.97	11.94	35.31	46.00	10.69	QP
5	800.18	22.90	3.58	8.76	35.24	46.00	10.76	QP
6	900.09	23.90	3.89	9.01	36.80	46.00	9.20	QP

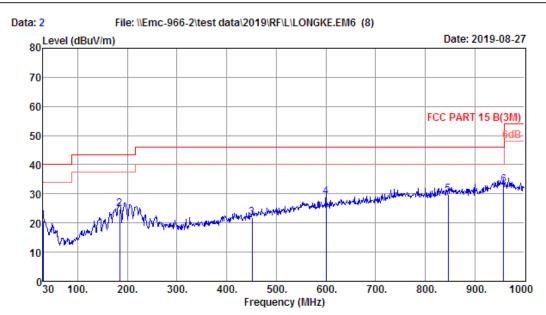
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



EST Technology

Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China Tel:+86-769-83081888 Fax:+86-769-83081878



Site no. : 2# 966 chamber Data no. : 2
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:24.5'; Humi:54%; Press:101.52kPa

Engineer : Frank

EUT : 8'' Android Tablet
Power : DC 3.7V From Battery

M/N : ONA19TB002 Test Mode : TX Mode

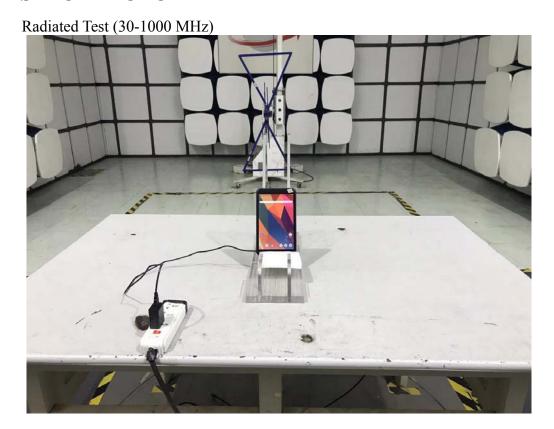
	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.00	18.40	0.14	2.14	20.68	40.00	19.32	QP
2	184.23	9.26	1.22	14.41	24.89	43.50	18.61	QP
3	450.98	17.32	2.55	1.91	21.78	46.00	24.22	QP
4	600.36	20.40	2.97	5.61	28.98	46.00	17.02	QP
5	846.74	23.22	3.74	2.97	29.93	46.00	16.07	QP
6	958.29	24.68	4.60	3.80	33.08	46.00	12.92	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. Margin= Limit - Emission Level.

3. The emission levels that are 20dB below the official limit are not reported.

5. TEST SETUP PHOTO

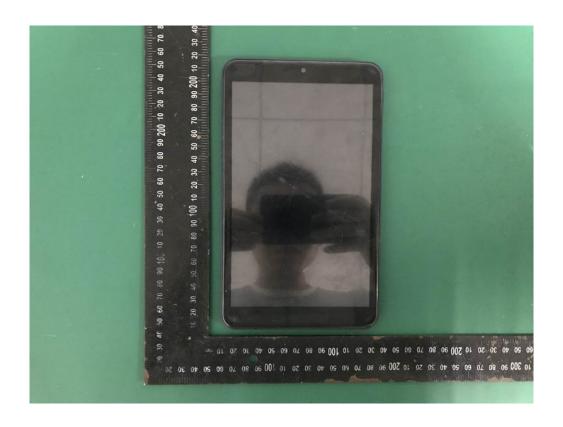




6. PHOTO EUT

External Photos M/N: ONA19TB002



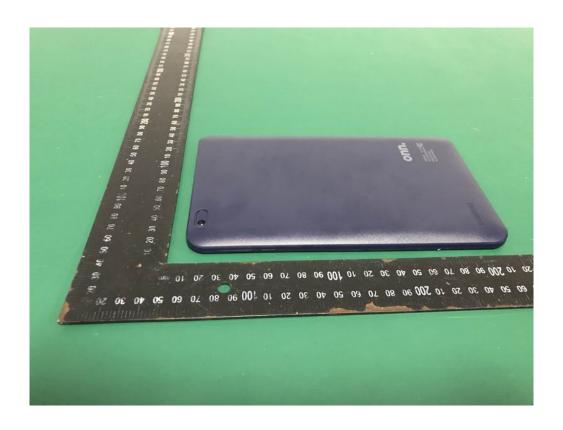




EST Technology Co., Ltd Report No. ESTE-R1901013-4 Page 17 of 26

External Photos M/N: ONA19TB002











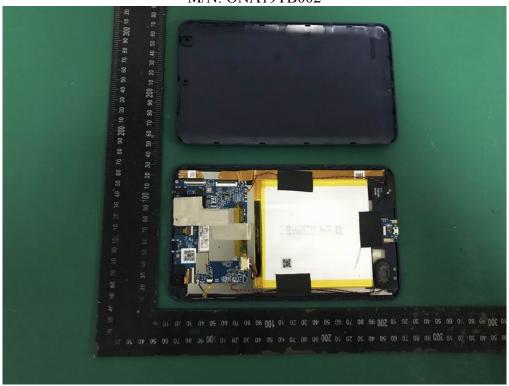


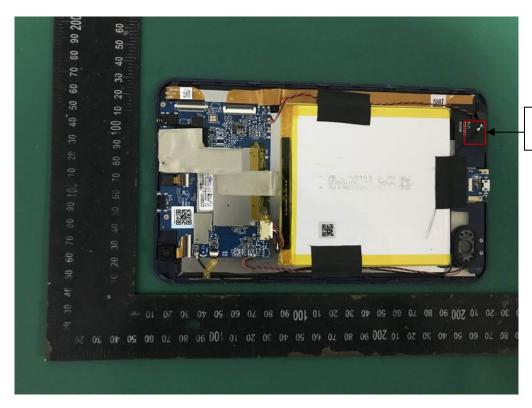






Internal Photos M/N: ONA19TB002

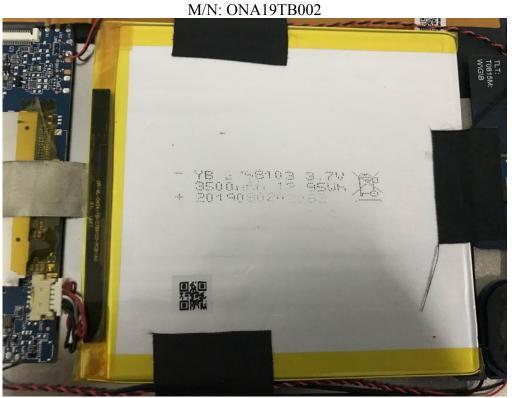


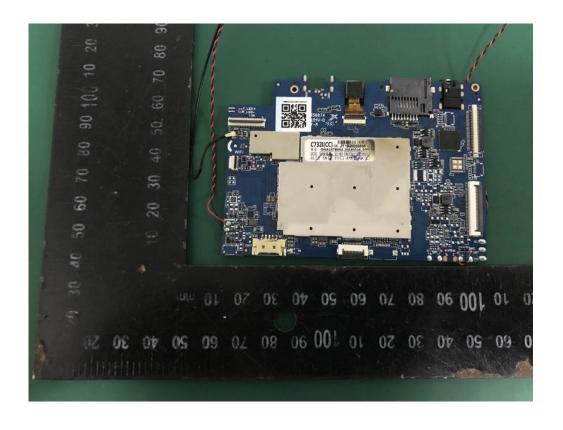


RF Antenna



Internal Photos

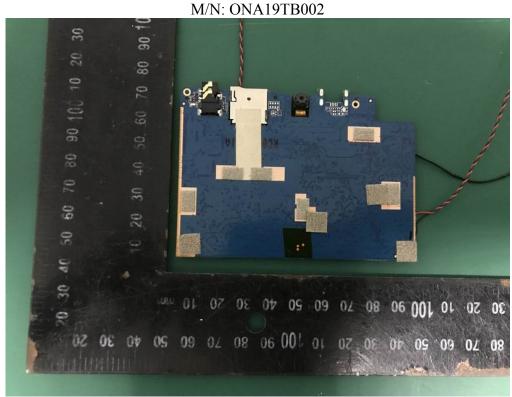


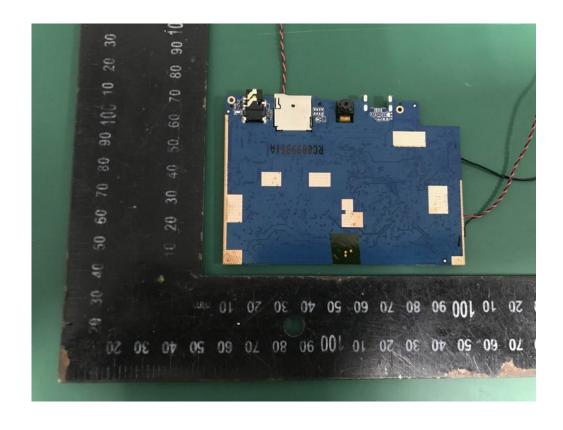




EST Technology Co., Ltd Report No. ESTE-R1901013-4 Page 22 of 26

Internal Photos

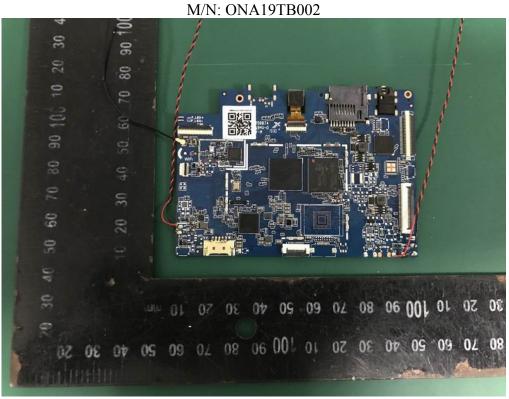




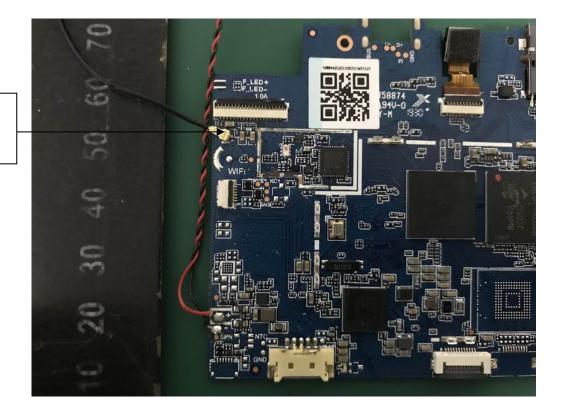


EST Technology Co., Ltd Report No. ESTE-R1901013-4 Page 23 of 26

Internal Photos

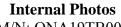


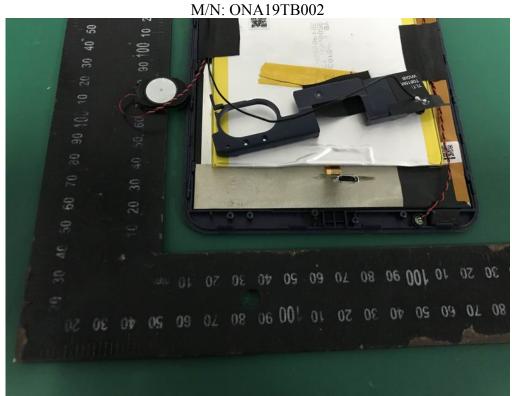
RF Antenna Port

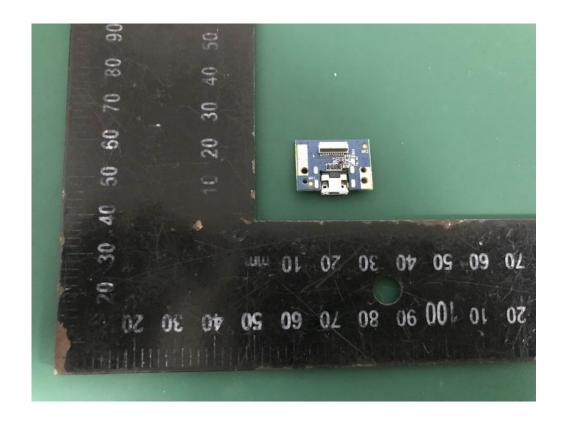


Report No. ESTE-R1901013-4





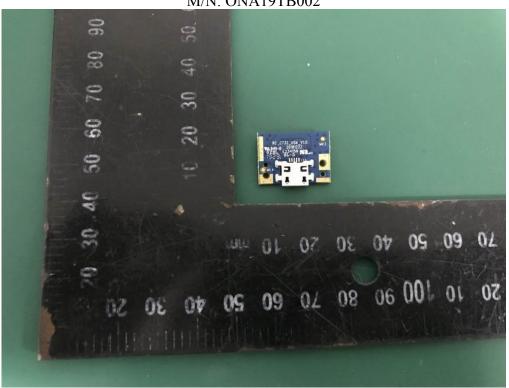






EST Technology Co., Ltd Report No. ESTE-R1901013-4 Page 25 of 26

Internal Photos M/N: ONA19TB002





EST Technology Co., Ltd Report No. ESTE-R1901013-4 Page 26 of 26