

FCC RADIO TEST REPORT FCC ID: 2AT9T-1002

Product: Tablet

Trade Mark: ulefone

Model Name: UF1002

Tab A10 Pro, Tab A10, Tab A10 Ultra,

Family Model: Tab A10 Lite, Tab A10P, Tab A10E, Tab

A10S

Report No.: S24110607306004

Issue Date: Jan. 27, 2025

Prepared for

Shenzhen Ulefone Technology Co., Ltd.

7A01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District, Shenzhen City, Guangdong Province China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name: Shenzhen Ulefone Technology Co., Ltd.

Address...... : 7A01, Building A, Block 1, Anhongji Tianyao Plaza, Longhua District,

Shenzhen City, Guangdong Province China

Manufacturer's Name: Shenzhen Gotron Electronic CO.,LTD.

Shenzhen City, Guangdong Province China

Product description

Product name...... Tablet Model and/or type reference : UF1002

Family Model Tab A10 Pro, Tab A10, Tab A10 Ultra, Tab A10 Lite, Tab A10P, Tab

A10E. Tab A10S

Sample number S241106073001 Standards FCC Part15.407

Test procedure ANSI C63.10-2013 and KDB 789033 D02 General UNII Test

Procedures New Rules v02r01

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements/ the Industry Canada requirements.. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests...... Nov. 06, 2024 ~ Jan. 27, 2025

Date of Issue Jan. 27, 2025

Test Result.....Pass

Prepared By: Joe Yan Reviewed By: Aaron Cheng (Project Engineer)

Approved By: (Manager)

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Revision History

Report No.	Version	Description	Issued Date
S24110607306004	Rev.01	Initial issue of report	Jan. 27, 2025

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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

	FCC Part15 (15.407) , Subpart E						
Standard Section	Test Item	Judgment	Remark				
15.207	AC Power Line Conducted Emissions	PASS					
15.209(a), 15.407 (b)(1) 15.407 (b)(4)	Spurious Radiated Emissions	PASS					
15.407 (a)(1) 15.407 (a)(3)	26 dB and 99% Emission Bandwidth	PASS					
15.407(e)	Minimum 6 dB bandwidth	PASS					
15.407 (a)(1) 15.407 (a)(3)	Maximum Conducted Output Power	PASS					
15.407(b)(1) 15.407(b)(4)	Band Edge	PASS					
15.407 (a)(1) 15.407 (a)(3)	Power Spectral Density	PASS					
15.407(b)	Spurious Emissions at Antenna Terminals	PASS					
15.203	Antenna Requirement	PASS					
15.407(c)	Automatically discontinue transmission	PASS					

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

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1.1 FACILITIES AND ACCREDITATIONS

FACILITIES

All measurement facilities used to collect the measurement data are located at

No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen,

Guangdong, People's Republic of China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516. IC-Registration The Certificate Registration Number is 9270A.

CAB identifier: CN0074

FCC- Accredited Test Firm Registration Number: 463705.

Designation Number: CN1184

A2LA-Lab. The Certificate Registration Number is 4298.01

This laboratory is accredited in accordance with the recognized

International Standard ISO/IEC 17025:2005 General requirements for the

competence of testing and calibration laboratories.

This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : No. 24 Xinfa East Road, Xiangshan Community, Xingiao Street, Baoan

District, Shenzhen, Guangdong, People's Republic of China..

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y±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 %.

pproxim	lately 55 76.		
No.	Item	Uncertainty	
1	Conducted Emission Test	±2.80dB	
2	RF power, conducted	±0.16dB	
3	Spurious emissions, conducted	±0.21dB	
4	All emissions, radiated(30MHz~1GHz)	±2.64dB	
5	All emissions, radiated(1GHz~6GHz)	±2.40dB	
6	All emissions, radiated(> 6GHz)	±2.52dB	
7	Temperature	±0.5°C	
8	Humidity	±2%	
9	All emissions, radiated(9KHz~30MHz)	±6dB	

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet			
Trade Mark	ulefone			
Model Name	UF1002			
Family Model	Tab A10 Pro, Tab A Tab A10S	10, Tab A10 Ultra, Tab A10 Lite, Tab A10P, Tab A10E,		
Model Difference	All models are the sa	ame circuit and RF module, except for model names.		
FCC ID	2AT9T-1002			
	IEEE 802.11 WLAN Mode Supported Data Rate	\(\)		
	Modulation	802.11ac(VHT40/VHT80):MCS0-MCS9; OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;		
	Operating Frequency Range			
Product Description	Number of Channels			
	Antenna Type Built-in Antenna Antenna Gain band I: 2.06dBi; band IV: 2.06dBi Based on the application, features, or specification exhibited in User's Manual, More details of EUT technical specification, please refer to the User's Manual.			
Adapter	Model: QZ-0180AA2 Input: 100-240V~50/ Output: 5.0V3.0A			
Battery	DC 3.8V, 6600mAh,	25.08Wh		
Power supply	DC 3.8V from batter	y or DC 5V/9V/12V from Adapter.		
Connecting I/O Port(s)	Please refer to the U	Jser's Manual		
HW Version	N/A			
SW Version	N/A			

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Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. Frequency and Channel list for 802.11a/n/ac(20MHz) band I (5180-5240MHz):

	802.11a/n/ac(20MHz) Carrier Frequency Channel						
Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)
36	5180	44	5220	-	-	-	-
40	5200	48	5240	-	-	-	-

Frequency and Channel list for 802.11n/ac(40MHz) band I (5190-5230MHz):

802.11n/ac(40MHz) Carrier Frequency Channel							
Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)
38	5190	-	-	-	-	-	-
46	5230	-	-	-	-	-	-

Frequency and Channel list for 802.11ac(80MHz) band I (5210MHz):

	802.11ac(80MHz) Carrier Frequency Channel						
Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)	Channel	Frequen cy (MHz)
42	5210	-	-	-	-	-	-

Frequency and Channel list for 802.11a/n/ac(20 MHz) band IV (5745-5825MHz):

	802.11a/n/ac(20 MHz) Carrier Frequency Channel						
	Frequen		Frequen		Frequen		Frequen
Channel	су	Channel	су	Channel	су	Channel	су
	(MHz)		(MHz)		(MHz)		(MHz)
149	5745	153	5765	157	5785	161	5805
165	5825	-	-	-	-	-	-

Frequency and Channel list for 802.11n/ac(40MHz) band IV (5755-5795MHz):

802.11n/ac(40MHz) Carrier Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795	-	-

Frequency and Channel list for 802.11ac(80MHz) band IV (5775MHz):

802.11ac(80MHz) Carrier Frequency Channel					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775			-	-

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2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a / n 20 /ac 20 CH36/ CH40/ CH 48 802.11a / n 20 / ac 20 CH149/ CH157/ CH 165
Mode 3	802.11n40 / ac40 CH38/ CH 46 802.11n 40 / ac 40 CH 151 / CH 159
Mode 4	802.11ac80 CH 42 802.11ac 80 CH 155

For Radiated Emission					
Final Test Mode Description					
Mode 1	Normal Link Mode				
Mode 2	802.11a / n 20 /ac 20 CH36/ CH40/ CH 48 802.11a / n 20 / ac 20 CH149/ CH157/ CH 165				
Mode 3	802.11n40 / ac40 CH38/ CH 46 802.11n 40 / ac 40 CH 151 / CH 159				
Mode 4	802.11ac80 CH 42 802.11ac 80 CH 155				

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

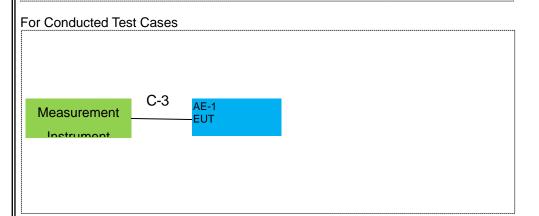
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2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

For AC Conducted Emission Mode C-1 AC PLUG AE-2 AE-1 EUT Adapter C-2 AE-3 Earphone

For Radiated Test Cases EUT



Note: 1.The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

2. EUT built-in battery-powered, the battery is fully-charged.

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2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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.

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Tablet	UF1002	N/A	EUT
AE-2	Adapter	QZ-0180AA2H	N/A	Peripherals
AE-3	Earphone	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	YES	NO	1.0m
C-2	Earphone Cable	YES	NO	1.2m
C-3	RF Cable	YES	NO	0.1m

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.

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2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Radiat	ion& Conducted	rest equipment					1
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibrati on period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2024.04.26	2025.04.25	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024.04.25	2025.04.24	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2024.04.25	2025.04.24	1 year
4	Test Receiver	R&S	ESPI7	101318	2024.04.26	2025.04.25	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2024.05.12	2025.05.11	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
7	Horn Antenna	EM	EM-AH-1018 0	2011071402	2024.05.12	2027.05.11	3 year
8	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9170	803	2024.05.12	2027.05.11	3 year
9	Amplifier	EMC	EMC051835 SE	980246	2024.04.25	2025.04.24	1 year
10	Active Loop Antenna	SCHWARZBE CK	FMZB 1519 B	055	2024.05.17	2027.05.16	3 year
11	Power Meter	DARE	RPR3006W	15I00041SN O84	2024.04.25	2025.04.24	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2023.05.06	2026.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	3 year
14	High Test Cable(1G-40G Hz)	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
15	Filter	TRILTHIC	2400MHz	29	2024.04.26	2027.04.25	3 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test And this temporary antenna connector is listed within the instrument list

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AC Conduction Test equipment

Ite m	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2024.04.26	2025.04.25	1 year
2	LISN	R&S	ENV216	101313	2024.04.25	2025.04.24	1 year
3	LISN	SCHWARZBE CK	NNLK 8129	8129245	2024.04.25	2025.04.24	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2024.04.26	2027.04.25	3 year
5	Test Cable (9KHz-30MH z)	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MH z)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MH z)	N/A	C03	N/A	2023.05.06	2026.05.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFtest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	Farad	EZ-EMC_CE	AIT-03A	AC Conducted Test

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3. TEST REQUIREMENTS

3.1CONDUCTED EMISSION MEASUREMENT

3.1.1 APPLICABLE STANDARD

According to FCC Part 15.207(a)

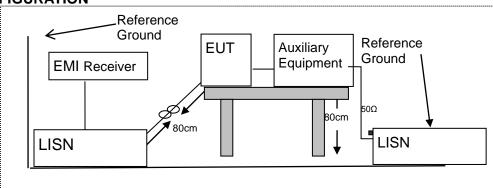
3.1.2 CONFORMANCE LIMIT

Fragues ou/MII-	Conducted Emission Limit					
Frequency(MHz)	Quasi-peak	Average				
0.15-0.5	66-56*	56-46*				
0.5-5.0	56	46				
5.0-30.0	60	50				

Note: 1. *Decreases with the logarithm of the frequency

- 2. The lower limit shall apply at the transition frequencies
- 3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

B.1.3 TEST CONFIGURATION



3.1.4 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

- 1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
- 2. The EUT was placed on a table which is 0.8m above ground plane.
- Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support
 equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for
 the measuring instrument.
- 4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
- 5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- 6. LISN at least 80 cm from nearest part of EUT chassis.
- 7. The frequency range from 150KHz to 30MHz was searched.
- 8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
- 9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

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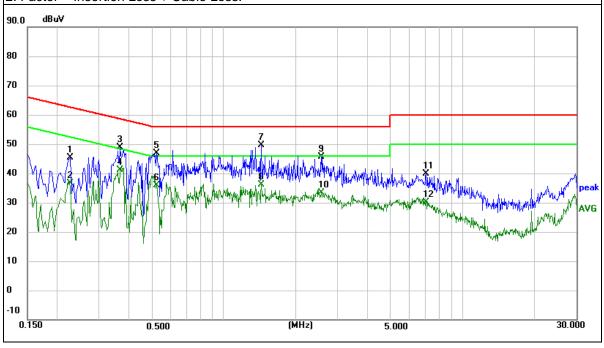
3.1.5 TEST RESULTS

EUT:	Tablet	Model Name :	UF1002	
Taman a ratura		Relative	58.9%	
Temperature :	23.4 (Humidity:		
Pressure :	1010hPa	Phase :	L	
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5GWIFI)	

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domonic
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2260	24.35	20.93	45.28	62.60	-17.32	peak
0.2260	15.72	20.93	36.65	52.60	-15.95	AVG
0.3660	28.04	20.74	48.78	58.59	-9.81	peak
0.3660	20.47	20.74	41.21	48.59	-7.38	AVG
0.5220	26.05	20.91	46.96	56.00	-9.04	peak
0.5220	15.04	20.91	35.95	46.00	-10.05	AVG
1.4380	28.85	20.79	49.64	56.00	-6.36	peak
1.4380	15.38	20.79	36.17	46.00	-9.83	AVG
2.5620	24.87	20.80	45.67	56.00	-10.33	peak
2.5620	12.48	20.80	33.28	46.00	-12.72	AVG
7.0420	19.21	20.69	39.90	60.00	-20.10	peak
7.0420	9.56	20.69	30.25	50.00	-19.75	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



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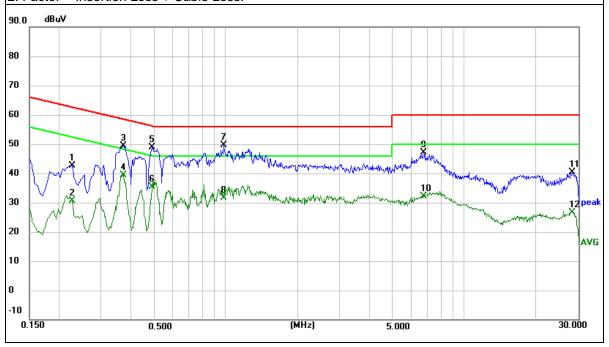


EUT :	Tablet	Model Name :	UF1002
Temperature :	23.4℃	Relative Humidity :	58.9%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5GWIFI)

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Damark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.2260	21.74	20.82	42.56	62.60	-20.04	peak
0.2260	9.93	20.82	30.75	52.60	-21.85	AVG
0.3700	28.55	20.94	49.49	58.50	-9.01	peak
0.3700	18.43	20.94	39.37	48.50	-9.13	AVG
0.4900	27.99	20.89	48.88	56.17	-7.29	peak
0.4900	14.46	20.89	35.35	46.17	-10.82	AVG
0.9820	28.79	20.76	49.55	56.00	-6.45	peak
0.9820	10.79	20.76	31.55	46.00	-14.45	AVG
6.7380	26.33	20.79	47.12	60.00	-12.88	peak
6.7380	11.28	20.79	32.07	50.00	-17.93	AVG
28.3100	19.54	20.80	40.34	60.00	-19.66	peak
28.3100	5.93	20.80	26.73	50.00	-23.27	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



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3.2 RADIATED EMISSION MEASUREMENT

3.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(b) and 15.209

3.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407(b)(7): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part15.205, Restricted bands

According to 1 CC Fatt 13.203, Nestricted bands						
MHz	MHz	GHz				
16.42-16.423	399.9-410	4.5-5.15				
16.69475-16.69525	608-614	5.35-5.46				
16.80425-16.80475	960-1240	7.25-7.75				
25.5-25.67	1300-1427	8.025-8.5				
37.5-38.25	1435-1626.5	9.0-9.2				
73-74.6	1645.5-1646.5	9.3-9.5				
74.8-75.2	1660-1710	10.6-12.7				
123-138	2200-2300	14.47-14.5				
149.9-150.05	2310-2390	15.35-16.2				
156.52475-156.52525	2483.5-2500	17.7-21.4				
156.7-156.9	2690-2900	22.01-23.12				
162.0125-167.17	3260-3267	23.6-24.0				
167.72-173.2	3332-3339	31.2-31.8				
240-285	3345.8-3358	36.43-36.5				
322-335.4	3600-4400	(2)				
	MHz 16.42-16.423 16.69475-16.69525 16.80425-16.80475 25.5-25.67 37.5-38.25 73-74.6 74.8-75.2 123-138 149.9-150.05 156.52475-156.52525 156.7-156.9 162.0125-167.17 167.72-173.2 240-285	MHz MHz 16.42-16.423 399.9-410 16.69475-16.69525 608-614 16.80425-16.80475 960-1240 25.5-25.67 1300-1427 37.5-38.25 1435-1626.5 73-74.6 1645.5-1646.5 74.8-75.2 1660-1710 123-138 2200-2300 149.9-150.05 2310-2390 156.52475-156.52525 2483.5-2500 156.7-156.9 2690-2900 162.0125-167.17 3260-3267 167.72-173.2 3332-3339 240-285 3345.8-3358				

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)	Measurement Distance	
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300	
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30	
1.705~30.0	30	29.5	30	
30-88	100	40	3	
88-216	150	43.5	3	
216-960	200	46	3	
Above 960	500	54	3	

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)				
	PEAK	AVERAGE			
Above 1000	74	54			

Remark :1. Emission level in dBuV/m=20 log (uV/m)

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

3.2.3 MEASURING INSTRUMENTS

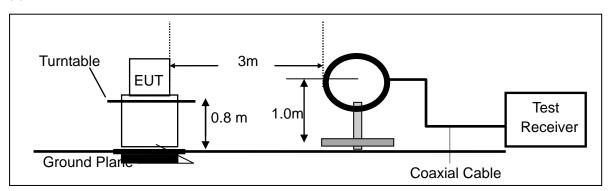
The Measuring equipment is listed in the section 6.3 of this test report.

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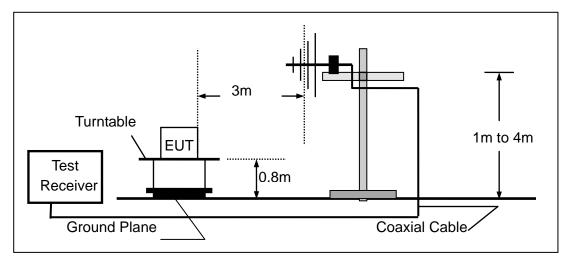


3.2.4 TEST CONFIGURATION

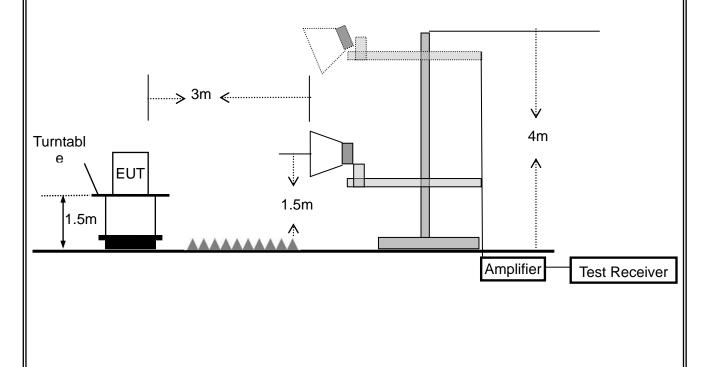
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



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3.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting		
Attenuation	Auto		
Start Frequency	1000 MHz		
Stop Frequency	10th carrier harmonic		
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average		

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	30 to 1000 QP		300 kHz
AL 4000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	1 MHz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz])., the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

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3.2.6 TEST RESULTS (9KHz - 30 MHz)

EUT:	Tablet	Model Name. :	UF1002
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.8V
Test Mode:	TX	Polarization :	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				N/A
				N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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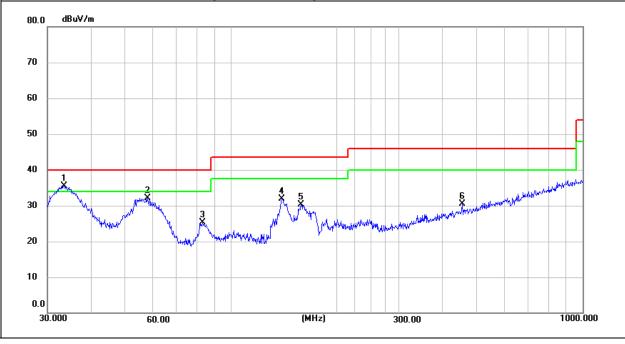
3.2.7 TEST RESULTS (30MHz - 1GHz)

EUT:	Tablet	Model Name. :	UF1002
Temperature :	25.3℃	Relative Humidity:	53%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX(5.2G)- 802.11a (Mid CH)		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	33.4450	18.40	17.04	35.44	40.00	-4.56	peak
V	57.7961	13.05	19.07	32.12	40.00	-7.88	peak
V	82.9384	11.33	13.97	25.30	40.00	-14.70	peak
V	139.3610	17.38	14.48	31.86	43.50	-11.64	peak
V	158.1123	15.43	14.93	30.36	43.50	-13.14	peak
V	454.3100	6.71	23.88	30.59	46.00	-15.41	peak

Remark:

Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit



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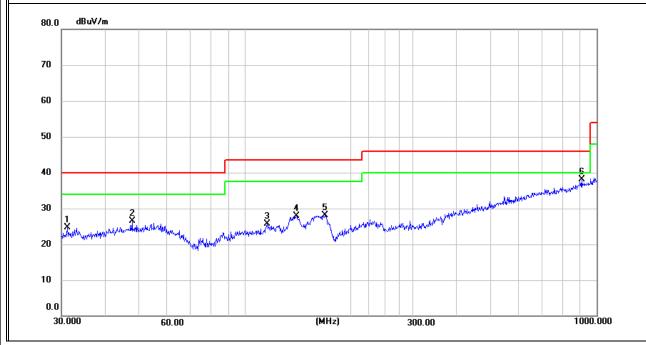




Polar	Frequency	Meter Reading	Factor Emission Level		Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	31.1797	7.82	16.81	24.63	40.00	-15.37	peak
Н	47.6584	6.87	19.67	26.54	40.00	-13.46	peak
Н	115.7256	8.67	16.95	25.62	43.50	-17.88	peak
Н	139.8507	13.52	14.48	28.00	43.50	-15.50	peak
Н	169.0053	12.58	15.54	28.12	43.50	-15.38	peak
Н	906.4823	7.18	31.01	38.19	46.00	-7.81	peak

Remark:

Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit



Note(1)"802.11a" mode is the worst mode.

(2)Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

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3.2.8 TEST RESULTS (1GHz-18GHz)

EUT:	Tablet	Model Name. :	UF1002		
Temperature :	20 ℃	Relative Humidity:	48%		
Pressure :	1010 hPa	Test Voltage :	DC 3.8V		
Test Mode :	TX(5.2G) - 802.11a_5180~5240MHz				

5.1	_	Meter	Cable	Antenna	Preamp	Emission			Detector
Polar	Frequency	Reading	loss	Factor	Factor	Level	Limits	Margin	Туре
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
			Low Ch	annel (5180	MHz)-Above	1G	•	•	
Vertical	3016.206	64.01	5.94	35.40	44.00	61.35	68.2	-6.85	Pk
Vertical	10360.045	61.43	8.46	39.75	44.50	65.14	68.2	-3.06	Pk
Vertical	15540.669	63.54	10.12	38.80	44.10	68.36	74	-5.64	Pk
Vertical	15540.669	44.47	10.12	38.80	42.70	50.69	54	-3.31	AV
Horizontal	2982.280	64.74	5.94	35.18	44.00	61.86	68.2	-6.34	Pk
Horizontal	10360.230	63.27	8.46	38.71	44.50	65.94	68.2	-2.26	Pk
Horizontal	15540.823	61.77	10.12	38.38	44.10	66.17	74	-7.83	Pk
Horizontal	15540.823	41.70	10.12	38.38	44.10	46.10	54	-7.90	AV
			middle C	hannel (5200) MHz)-Abov	/e 1G			
Vertical	3561.945	65.00	6.48	36.35	44.05	63.78	68.2	-4.42	Pk
Vertical	10400.799	63.31	8.47	37.88	44.51	65.15	68.2	-3.05	Pk
Vertical	15600.549	61.06	10.12	38.8	44.1	65.88	74	-8.12	Pk
Vertical	15600.549	43.75	10.12	38.8	42.7	49.97	54	-4.03	AV
Horizontal	3363.149	64.65	6.48	36.37	44.05	63.45	68.2	-4.75	Pk
Horizontal	10400.633	61.91	8.47	38.64	44.5	64.52	68.2	-3.68	Pk
Horizontal	15600.101	62.23	10.12	38.38	44.1	66.63	74	-7.37	Pk
Horizontal	15600.658	46.63	10.12	38.38	44.1	51.03	54	-2.97	AV
			High Ch	nannel (5240	MHz)-Above	e 1G			
Vertical	3926.842	64.59	7.1	37.24	43.5	65.43	74	-8.57	Pk
Vertical	3926.548	47.22	7.1	37.24	43.5	48.06	54	-5.94	AV
Vertical	10480.262	62.91	8.46	37.68	44.5	64.55	68.2	-3.65	Pk
Vertical	15720.295	59.58	10.12	38.8	44.1	64.40	74	-9.60	Pk
Vertical	15720.295	36.06	10.12	38.8	42.7	42.28	54	-11.72	AV
Horizontal	3885.278	68.03	7.1	37.24	43.5	68.87	74	-5.13	Pk
Horizontal	3885.278	42.36	7.1	37.24	43.5	43.20	54	-10.80	AV
Horizontal	10480.849	59.32	8.46	38.57	44.5	61.85	68.2	-6.35	Pk
Horizontal	15720.884	60.77	10.12	38.38	44.1	65.17	74	-8.83	Pk
Horizontal	15720.884	42.44	10.12	38.38	44.1	46.84	54	-7.16	AV

Note:"802.11a" mode is the worst mode.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported. Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

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EUT:	Tablet	Model Name. :	UF1002			
Temperature :	20 ℃	Relative Humidity:	48%			
Pressure :	1010 hPa	Test Voltage :	DC 3.8V			
Test Mode :	TX (5.8G) 802.11a_5745~5825MHz					

		Meter	Cable	Antenna	Preamp	Emission			Detector
Polar	Frequency	Reading	loss	Factor	Factor	Level	Limits	Margin	Туре
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
	•		Low Char	nel (5745 N	/lHz)-Above	e 1G			
Vertical	2807.694	64.13	5.94	35.40	44.00	61.47	74.00	-12.53	Pk
Vertical	2807.694	46.01	5.94	35.40	44.00	43.35	54.00	-10.65	AV
Vertical	11490.686	61.25	8.46	39.75	44.50	64.96	74.00	-9.04	Pk
Vertical	11490.686	43.23	8.46	39.75	44.50	46.94	54.00	-7.06	AV
Vertical	17235.371	57.87	10.12	38.80	44.10	62.69	68.20	-5.51	Pk
Horizontal	2912.458	63.12	5.94	35.18	44.00	60.24	68.20	-7.96	Pk
Horizontal	11490.898	63.09	8.46	38.71	44.50	65.76	74.00	-8.24	Pk
Horizontal	11490.898	40.12	8.46	38.71	44.50	42.79	54.00	-11.21	AV
Horizontal	17235.882	58.87	10.12	38.38	44.10	63.27	68.20	-4.93	Pk
		ı	middle Cha	annel (5785	MHz)-Abov	/e 1G			
Vertical	3763.084	61.34	6.48	36.35	44.05	60.12	74.00	-13.88	Pk
Vertical	3763.084	39.64	6.48	36.35	44.05	38.42	54.00	-15.58	AV
Vertical	11571.367	61.35	8.47	37.88	44.51	63.19	74.00	-10.81	Pk
Vertical	11571.367	43.30	8.47	37.88	44.51	45.14	54.00	-8.86	AV
Vertical	17355.585	57.75	10.12	38.8	44.10	62.57	68.20	-5.63	Pk
Horizontal	3562.235	60.90	6.48	36.37	44.05	59.70	68.20	-8.50	Pk
Horizontal	11570.916	57.92	8.47	38.64	44.50	60.53	74.00	-13.47	Pk
Horizontal	11570.916	42.73	8.47	38.64	44.50	45.34	54.00	-8.66	AV
Horizontal	17356.207	62.09	10.12	38.38	44.10	66.49	74.00	-7.51	Pk
Horizontal	17356.207	43.70	10.12	38.38	44.10	48.10	54.00	-5.90	AV
			High Char	nnel (5825 l	ИHz)-Abov	e 1G			
Vertical	3908.149	58.69	7.10	37.24	43.50	59.53	74.00	-14.47	Pk
Vertical	3908.149	42.53	7.10	37.24	43.50	43.37	54.00	-10.63	AV
Vertical	11651.095	59.31	8.46	37.68	44.50	60.95	74.00	-13.05	Pk
Vertical	11651.095	42.68	8.46	37.68	44.50	44.32	54.00	-9.68	AV
Vertical	17476.311	57.81	10.12	38.8	44.10	62.63	68.20	-5.57	Pk
Horizontal	3912.944	58.77	7.10	37.24	43.50	59.61	74.00	-14.39	Pk
Horizontal	3912.944	42.83	7.10	37.24	43.50	43.67	54.00	-10.33	AV
Horizontal	11651.397	61.12	8.46	38.57	44.50	63.65	74.00	-10.35	Pk
Horizontal	11651.397	42.33	8.46	38.57	44.50	44.86	54.00	-9.14	AV
Horizontal	17475.548	58.02	10.12	38.38	44.10	62.42	68.20	-5.78	Pk

Note:"802.11a" mode is the worst mode.

The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Emission level (dBu \dot{V} /m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

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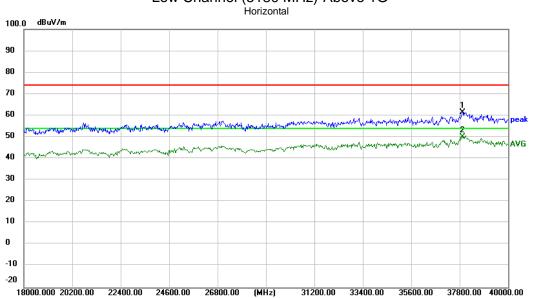
3.2.9 TEST RESULTS (18GHz-40GHz)

EUT:	Tablet	Model Name. :	UF1002			
Temperature :	20 ℃	Relative Humidity:	48%			
Pressure :	1010 hPa	Test Voltage :	DC 3.8V			
	TX (5.2G)-802.11a.5180MHz~5240MHz					

Test Mode : TX (5.2G)-802.11a 5180MHz~5240MHz, TX (5.8G)-802.11ac40 5745MHz~5825MHz

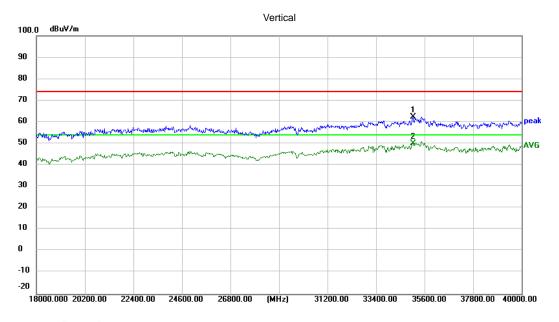
All the modulation modes have been tested, and the worst result was report as below:

Low Channel (5180 MHz)-Above 1G



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
37932.000	52.67	8.80	61.47	74.00	-12.53	peak	Р
37932.000	41.32	8.80	50.12	54.00	-3.88	AVG	Р



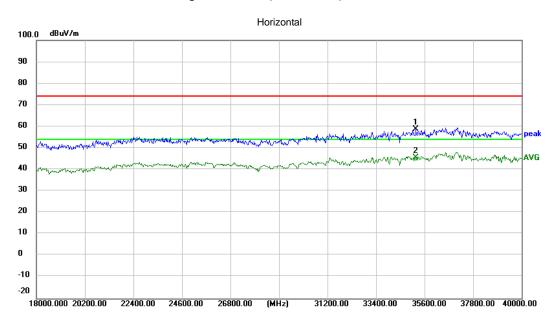
Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
35072.000	55.18	7.05	62.23	74.00	-11.77	peak	Р
35072.000	43.02	7.05	50.07	54.00	-3.93	AVG	Р

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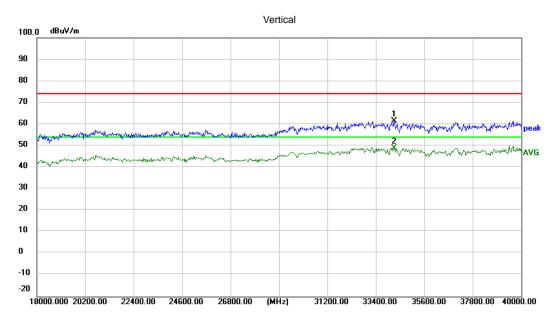


High Channel (5240 MHz)-Above 1G



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
35204.000	52.19	6.57	58.76	74.00	-15.24	peak	Р
35204.000	38.87	6.57	45.44	54.00	-8.56	AVG	Р



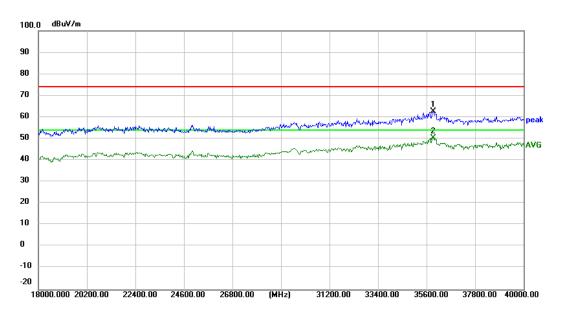
Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
34236.000	55.73	5.81	61.54	74.00	-12.46	peak	Р
34236.000	43.16	5.81	48.97	54.00	-5.03	AVG	Р

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Low Channel (5745 MHz)-Above 1G

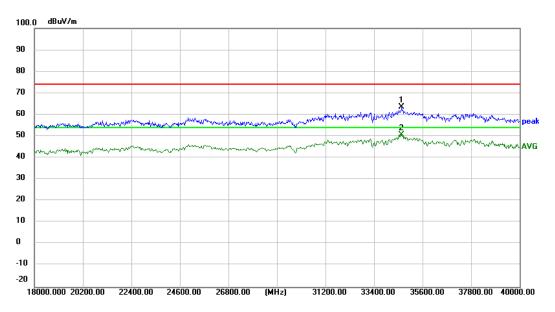
Horizontal



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
35908.000	56.51	6.20	62.71	74.00	-11.29	peak	Р
35908.000	44.12	6.20	50.32	54.00	-3.68	AVG	Р

Vertical



Measurement Result:

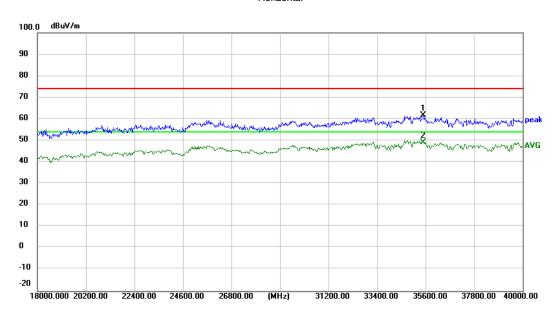
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
34654.000	57.13	6.36	63.49	74.00	-10.51	peak	Р
34654.000	44.26	6.36	50.62	54.00	-3.38	AVG	Р

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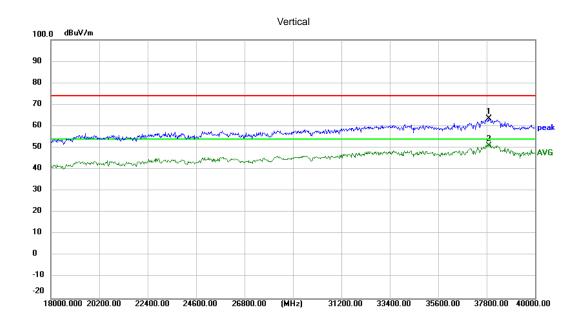
High Channel (5825 MHz)-Above 1G

Horizontal



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
35490.000	55.60	6.20	61.80	74.00	-12.20	peak	Р
35490.000	42.99	6.20	49.19	54.00	-4.81	AVG	Р



Measurement Result:

Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
37888.000	55.00	8.69	63.69	74.00	-10.31	peak	Р
37888.000	42.21	8.69	50.90	54.00	-3.10	AVG	Р

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3.2.10 Spurious Emission in Restricted Band 4.5GHz~5.150 GHz& 5.350GHz~5460GHz

EUT:	Tablet	Model Name. :	UF1002			
Temperature :	20 ℃	Relative Humidity:	48%			
Pressure :	1010 hPa	DC 3.8V				
Test Mode :	TX (5.2G)-802.11a 5150MHz~5250MHz,					

All the modulation modes have been tested, The report just record the worst data mode.

All the modulation modes have been tested, The report just record the worst data mode.									
Frequen	Meter	Cable	Antenna	Preamp	Emission	Limits	Margin	Detec	
су	Reading	Loss	Factor	Factor	Level			tor	Comment
(MHz)	(dBµV)	(dB)	dB/m	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
	5.2G WIFI-802.11n20 Mode								
4500	64.60	5.2	35.6	44.2	61.20	74	-12.80	Pk	Horizontal
4500	46.77	5.2	35.6	44.2	43.37	54	-10.63	AV	Horizontal
4500	56.63	5.2	35.6	44.2	53.23	74	-20.77	Pk	Horizontal
4500	40.37	5.2	35.6	44.2	36.97	54	-17.03	AV	Horizontal
5150	72.67	5.36	35.66	44.22	69.47	74	-4.53	Pk	Horizontal
5150	52.48	5.36	35.66	44.22	49.28	54	-4.72	AV	Horizontal
5150	71.45	5.36	35.66	44.22	68.25	74	-5.75	Pk	Vertical
5150	51.63	5.36	35.66	44.22	48.43	54	-5.57	AV	Vertical
5350	64.79	5.68	35.68	44.22	61.93	74	-12.07	Pk	Vertical
5350	43.94	5.68	35.68	44.22	41.08	54	-12.92	AV	Vertical
5350	56.95	5.68	35.68	44.22	54.09	74	-19.91	Pk	Horizontal
5350	42.09	5.68	35.68	44.22	39.23	54	-14.77	AV	Horizontal

Note: (1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

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^{(2) &}quot;802.11a" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

B.3 POWER SPECTRAL DENSITY TEST

3.3.1 Applied procedures / limit

According to FCC §15.407(a)(3)

For the band 5.15-5.25 GHz,

- (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
- (iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(3)For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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3.3.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, "provided that the measured power is integrated over the full reference bandwidth" to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set RBW ≥ 1/T, where T is defined in section II.B.I.a).
- b) Set VBW ≥ 3 RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

3.3.3 DEVIATION FROM STANDARD

No deviation.

3.3.4 TEST SETUP



3.3.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

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3.3.6 **TEST RESULTS**

EUT:	Tablet	Model Name. :	UF1002		
Temperature :	25 ℃	Relative Humidity:	56%		
Pressure :	1015 hPa	Test Voltage :	DC 3.8V		
Test Mode :	TX Frequency Band I (5150-5250MHz), Band IV (5725-5850MHz)				

Test data reference attachment.

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B.4 26DB & 99% EMISSION BANDWIDTH

3.4.1 Applied procedures / limit

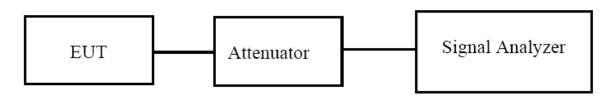
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

3.4.2 TEST PROCEDURE

- a) Set RBW = approximately 1% of the emission bandwidth.
- b) Set the VBW > RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

The following procedure shall be used for measuring (99 %) power bandwidth:

- 1. Set center frequency to the nominal EUT channel center frequency.
- 2. Set span = 1.5 times to 5.0 times the OBW.
- 3. Set RBW = 1% to 5% of the OBW
- 4. Set VBW ≥ 3 · RBW
- 5. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
 - 6. Use the 99 % power bandwidth function of the instrument (if available).
- 7. If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.



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3.4.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.4.4 **TEST RESULTS**

EUT:	Tablet	Model Name. :	UF1002		
Temperature :	25 ℃	Relative Humidity:	56%		
Pressure :	1012 hPa	Test Voltage :	DC 3.8V		
Test Mode :	TX Frequency Band I (5150-5250MHz), Band IV (5725-5850MHz)				

Test data reference attachment.

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B.5 MINIMUM 6 DB BANDWIDTH

3.5.1 Applied procedures / limit

According to FCC §15.407(e)

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.5.2 TEST PROCEDURE

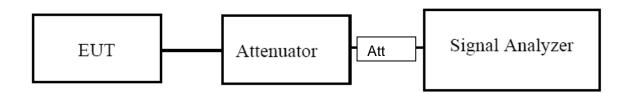
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) ≥ 3 × RBW.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.5.3 DEVIATION FROM STANDARD

No deviation.

3.5.4 TEST SETUP



3.5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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3.5.6 TEST RESULTS

EUT:	Tablet	Model Name. :	UF1002	
Temperature :	25 ℃	Relative Humidity:	60%	
Pressure :	1012 hPa	Test Voltage :	DC 3.8V	
Test Mode :	TX (5G) Mode Frequency Band IV (5725-5850MHz)			

Test data reference attachment.

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B.6 MAXIMUM CONDUCTED OUTPUT POWER

3.6.1 PPLIED PROCEDURES / LIMIT

According to FCC §15.407

The maximum conduced output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5725~5850	1W

3.6.2 TEST PROCEDURE

- · Maximum conducted output power may be measured using a spectrum analyzer/EMI receiver or an RF power meter.
 - 1. Device Configuration

with § 15.407(a).

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see section II.B.).

- a) The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (to no lower than 98 percent) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.
- b) If continuous transmission (or at least 98 percent duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level with the transmit duration as long as possible and the duty cycle as high as possible.
- 2. Measurement using a Spectrum Analyzer or EMI Receiver (SA)
 Measurement of maximum conducted output power using a spectrum analyzer requires
 integrating the spectrum across a frequency span that encompasses, at a minimum, either the
 EBW or the 99-percent occupied bandwidth of the signal.1 However, the EBW must be used to
 determine bandwidth dependent limits on maximum conducted output power in accordance

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- a) The test method shall be selected as follows: (i) Method SA-1 or SA-1 Alternative (averaging with the EUT transmitting at full power throughout each sweep) shall be applied if either of the following conditions can be satisfied:
 - The EUT transmits continuously (or with a duty cycle ≥ 98 percent).
- Sweep triggering or gating can be implemented in a way that the device transmits at the maximum power control level throughout the duration of each of the instrument sweeps to be averaged. This condition can generally be achieved by triggering the instrument's sweep if the duration of the sweep (with the analyzer configured as in Method SA-1, below) is equal to or shorter than the duration T of each transmission from the EUT and if those transmissions exhibit full power throughout their durations.
- (ii) Method SA-2 or SA-2 Alternative (averaging across on and off times of the EUT transmissions, followed by duty cycle correction) shall be applied if the conditions of (i) cannot be achieved and the transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than ± 2 percent.
- (iii) Method SA-3 (RMS detection with max hold) or SA-3 Alternative (reduced VBW with max hold) shall be applied if the conditions of (i) and (ii) cannot be achieved.
- b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep): (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
 - (ii) Set RBW = 1 MHz.
 - (iii) Set VBW ≥ 3 MHz.
- (iv) Number of points in sweep \geq 2 Span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)
 - (v) Sweep time = auto.
- (vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
 - (viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum

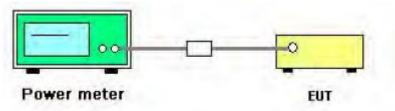
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3.6.3 DEVIATION FROM STANDARD

No deviation.

3.6.4 TEST SETUP



3.6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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3.6.6 TEST RESULTS

EUT:	Tablet	Model Name. :	UF1002			
Temperature :	25 ℃	Relative Humidity:	60%			
Pressure :	1012 hPa	Test Voltage :	DC 3.8V			
Test Mode :	TX (5G) Mode Frequency Band I (5150-5250MHz), Band IV (5725-5850MHz)					

Test data reference attachment.

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B.7 OUT OF BAND EMISSIONS

3.7.1 Applicable Standard

According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.
- (2) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

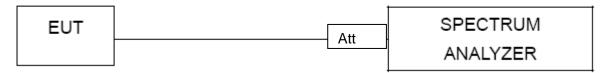
3.7.2 Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

3.7.3 DEVIATION FROM STANDARD

No deviation.

3.7.4 TEST SETUP



3.7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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3.7.6 TEST RESULTS

EUT :	Tablet	Model Name. :	UF1002
Temperature :	25 ℃	Relative Humidity:	56%
Pressure :	1012 hPa	Test Voltage :	DC 3.8V

Test data reference attachment.

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B.8 SPURIOUS RF CONDUCTED EMISSIONS

3.8.1Conformance Limit

According to FCC §15.407(b)(1) (2) (3) (4)

3.8.2Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

3.8.3Test Setup

Please refer to Section 6.1 of this test report.

3.8.4Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength, and measure frequency range from 30MHz to 40GHz.

3.8.5Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

measurement data.	
Test data reference attachment.	

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3.9 FREQUENCY STABILITY MEASUREMENT

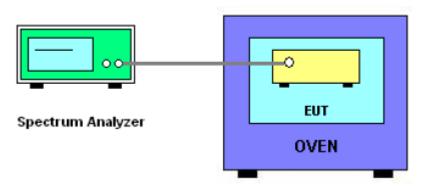
3.9.1 LIMIT

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

B.9.2 TEST PROCEDURES

- 1. The transmitter output (antenna port) was connected to the spectrum analyzer.
- 2. EUT have transmitted absence of modulation signal and fixed channelize.
- 3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
- 4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
- 5. fc is declaring of channel frequency. Then the frequency error formula is (fc-f)/fc × 10₀ ppm .
- 6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
- 7. Extreme temperature is -20°C~70°C.

β.9.3 TEST SETUP LAYOUT



B.9.4 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously un-modulation transmitting mode.

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3.9.5 TEST RESULTS

EUT:	Tablet	Model Name. :	UF1002		
Temperature :	25 ℃	Relative Humidity:	56%		
Pressure :	1012 hPa	Test Voltage :	DC 3.8V		
Test Mode :	TX Frequency Band I (5150-5250MHz)				

Voltage vs. Frequency Stability

				Reference Frequency: 5180MHz			
	TEC	T CONDITIONS	.			Max.	Max.
	ILS	CONDITIONS)	f	fc	Deviation	Deviation
					(MHz)	(ppm)	
T n o m		V nom (V)	3.8	5180.0075	5180	0.0075	1.4559
T nom	20	V max (V)	4.37	5180.0066	5180	0.0066	1.2797
(°C)		V min (V)	3.23	5180.0085	5180	0.0085	1.6452
Limits				Within 5150-5250MHz			
Result					Com	nplies	

Temperature vs. Frequency Stability

				Reference Frequency: 5180MHz			
_	EST CC	NDITIONS				Max.	Max.
'	E31 CC	MUITIONS)	f	fc	Deviation	Deviation
						(MHz)	(ppm)
		T (°C)	-20	5180.0072	5180	0.0072	1.3962
		T (°C)	-10	5180.0060	5180	0.0060	1.1517
		T (°C)	0	5180.0095	5180	0.0095	1.8366
	3.8	T (°C)	10	5180.0028	5180	0.0028	0.5316
V nom (V)		T (°C)	20	5180.0063	5180	0.0063	1.2225
V HOIH (V)	3.0	T (°C)	30	5180.0070	5180	0.0070	1.3572
		T (°C)	40	5180.0061	5180	0.0061	1.1744
		T (°C)	50	5180.0088	5180	0.0088	1.6932
		T (°C)	60	5180.0019	5180	0.0019	0.3671
		T (°C)	70	5180.0041	5180	0.0041	0.7927
Limits			V	Vithin 515	0-5250MHz		
	Result				Con	nplies	

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Voltage vs. Frequency Stability

				Reference Frequency: 5200MHz							
	TEC	T CONDITIONS	,			Max.	Max.				
	IES	CONDITIONS	•	f	fc	Deviation	Deviation				
						(MHz)	(ppm)				
T 10 0 100		V nom (V)	3.8	5200.0073	5200	0.0073	1.3952				
T nom	20	V max (V)	4.37	5200.0051	5200	0.0051	0.9903				
(°C)						V min (V)	3.23	5200.0086	5200	0.0086	1.6472
	Limits			Within 5150-5250MHz							
Result				Complies							

Temperature vs. Frequency Stability

				Reference Frequency: 5200MHz			
_	EST CC	NDITIONS				Max.	Max.
'	E31 CC	MUITIONS)	f	fc	Deviation	Deviation
						(MHz)	(ppm)
		T (°C)	-20	5200.0022	5200	0.0022	0.4230
		T (°C)	-10	5200.0082	5200	0.0082	1.5697
		T (°C)	0	5200.0069	5200	0.0069	1.3240
	3.8	T (°C)	10	5200.0055	5200	0.0055	1.0542
\/ nom (\/)		T (°C)	20	5200.0076	5200	0.0076	1.4583
V nom (V)		T (°C)	30	5200.0037	5200	0.0037	0.7040
		T (°C)	40	5200.0097	5200	0.0097	1.8737
		T (°C)	50	5200.0019	5200	0.0019	0.3696
		T (°C)	60	5200.0038	5200	0.0038	0.7284
		T (°C)	70	5200.0043	5200	0.0043	0.8277
Limits			V	Vithin 515	0-5250MHz		
	Re	esult			Con	nplies	

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Voltage vs. Frequency Stability

				Reference Frequency: 5240MHz							
	TEC	T CONDITIONS	,			Max.	Max.				
	IES	CONDITIONS	•	f	fc	Deviation	Deviation				
						(MHz)	(ppm)				
T 10 0 100		V nom (V)	3.8	5240.0018	5240	0.0018	0.3470				
T nom	20	V max (V)	4.37	5240.0045	5240	0.0045	0.8544				
(°C)						V min (V)	3.23	5240.0095	5240	0.0095	1.8177
	Limits				Within 5150-5250MHz						
		Result		Complies							

Temperature vs. Frequency Stability

				Refere	Reference Frequency: 5240MHz			
_	EST CC	NDITIONS				Max.	Max.	
'	E31 CC	MUITIONS)	f	fc	Deviation	Deviation	
						(MHz)	(ppm)	
		T (°C)	-20	5240.0053	5240	0.0053	1.0171	
		T (°C)	-10	5240.0009	5240	0.0009	0.1707	
		T (°C)	0	5240.0015	5240	0.0015	0.2795	
	3.8	T (°C)	10	5240.0042	5240	0.0042	0.8093	
\/ nom (\/)		T (°C)	20	5240.0091	5240	0.0091	1.7458	
V nom (V)		T (°C)	30	5240.0040	5240	0.0040	0.7633	
		T (°C)	40	5240.0062	5240	0.0062	1.1808	
		T (°C)	50	5240.0084	5240	0.0084	1.5957	
		T (°C)	60	5240.0002	5240	0.0002	0.0417	
		T (°C)	70	5240.0054	5240	0.0054	1.0346	
Limits			Within 5150-5250MHz					
	Re	esult			Con	nplies		

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EUT:	Tablet	Model Name. :	UF1002		
Temperature :	25 ℃	Relative Humidity:	56%		
Pressure :	1012 hPa	Test Voltage :	DC 3.8V		
Test Mode :	TX Frequency(5745-5825MHz)				

Voltage vs. Frequency Stability

				Reference Frequency: 5745MHz			
	TEC	T CONDITIONS	.			Max.	Max.
	IES	CONDITIONS)	f	fc	Deviation	Deviation
						(MHz)	(ppm)
Tnom		V nom (V)	3.8	5745.0056	5745	0.0056	0.9804
T nom	20	V max (V)	4.37	5745.0018	5745	0.0018	0.3132
(°C)		V min (V)	3.23	5745.0003	5745	0.0003	0.0489
		Limits		Within 5745-5850MHz			
		Result		Complies			

Temperature vs. Frequency Stability

				Reference Frequency: 5745MHz			
_	EST CC	NDITIONS				Max.	Max.
!	E31 CC	MUITIONS)	f	fc	Deviation	Deviation
						(MHz)	(ppm)
		T (°C)	-20	5745.0030	5745	0.0030	0.5280
	3.8	T (°C)	-10	5745.0003	5745	0.0003	0.0557
		T (°C)	0	5745.0002	5745	0.0002	0.0346
		T (°C)	10	5745.0031	5745	0.0031	0.5315
\/ nom (\/)		T (°C)	20	5745.0015	5745	0.0015	0.2577
V nom (V)		T (°C)	30	5745.0046	5745	0.0046	0.8079
		T (°C)	40	5745.0090	5745	0.0090	1.5692
		T (°C)	50	5745.0083	5745	0.0083	1.4390
		T (°C)	60	5745.0074	5745	0.0074	1.2838
		T (°C)	70	5745.0073	5745	0.0073	1.2655
	Li	mits		Within 5745-5850MHz			
	Re	esult		Complies			

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Voltage vs. Frequency Stability

				Reference Frequency: 5785MHz				
	TEC	T CONDITIONS			fc	Max.	Max.	
	IES	CONDITIONS)	f		Deviation	Deviation	
						(MHz)	(ppm)	
Tnom		V nom (V)	3.8	5785.0047	5785	0.00472	-0.8160	
T nom	20	V max (V)	4.37	5785.0084	5785	0.00838	-1.4478	
(°C)			V min (V)	3.23	5785.0042	5785	0.00424	-0.7332
		Limits		Within 5745-5850MHz				
	•	Result			Com	plies		

Temperature vs. Frequency Stability

				Reference Frequency: 5785MHz			
_	EST CC	NDITIONS				Max.	Max.
'	E31 CC	MUITIONS)	f	fc	Deviation	Deviation
						(MHz)	(ppm)
		T (°C)	-20	5785.0004	5785	0.0004	0.0700
	3.8	T (°C)	-10	5785.0003	5785	0.0003	0.0459
		T (°C)	0	5785.0056	5785	0.0056	0.9734
		T (°C)	10	5785.0074	5785	0.0074	1.2790
\/ nom (\/)		T (°C)	20	5785.0098	5785	0.0098	1.7007
V nom (V)		T (°C)	30	5785.0080	5785	0.0080	1.3764
		T (°C)	40	5785.0080	5785	0.0080	1.3877
		T (°C)	50	5785.0013	5785	0.0013	0.2191
		T (°C)	60	5785.0085	5785	0.0085	1.4655
		T (°C)	70	5785.0023	5785	0.0023	0.3905
	Li	mits		Within 5745-5850MHz			
Result				Complies			

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Voltage vs. Frequency Stability

				Reference Frequency: 5825MHz							
	TEC	T CONDITIONS	.			Max.	Max.				
	IES	CONDITIONS)	f	fc	Deviation	Deviation				
						(MHz)	(ppm)				
Tnom		V nom (V)	3.8	5825.0022	5825	0.0022	0.3749				
T nom	20	V max (V)	4.37	5825.0065	5825	0.0065	1.1215				
(°C)						V min (V)	3.23	5825.0020	5825	0.0020	0.3443
		Limits		Within 5745-5850MHz							
	•	Result		Complies							

Temperature vs. Frequency Stability

				Reference Frequency: 5825MHz			
_	EST CC	NDITIONS				Max.	Max.
	E31 CC	MUITIONS)	f	fc	Deviation	Deviation
						(MHz)	(ppm)
	3.8	T (°C)	-20	5825.0026	5825	0.0026	0.4474
		T (°C)	-10	5825.0006	5825	0.0006	0.1034
		T (°C)	0	5825.0077	5825	0.0077	1.3237
		T (°C)	10	5825.0002	5825	0.0002	0.0267
\/ nom (\/)		T (°C)	20	5825.0068	5825	0.0068	1.1596
V nom (V)		T (°C)	30	5825.0053	5825	0.0053	0.9174
		T (°C)	40	5825.0085	5825	0.0085	1.4514
		T (°C)	50	5825.0007	5825	0.0007	0.1284
		T (°C)	60	5825.0028	5825	0.0028	0.4798
		T (°C)	70	5825.0070	5825	0.0070	1.1998
	Li	mits		Within 5745-5850MHz			
Result				Complies			

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4. ANTENNA REQUIREMENT

4.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: 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.

4.2 EUT ANTENNA

The EUT antenna is permanent attached Built-in antenna (antenna gain: band I : 2.06dBi; band IV: 2.06dBi). It comply with the standard requirement.

END OF REPORT

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