



FCC RADIO TEST REPORT FCC ID: HLZ-ACERONE8T2P

Product: Tablet

Trade Mark: acer

Model No.: Acer_one_8_T2_Plus

Family Model: N/A

Report No.: S22082304116005

Issue Date: Oct 20. 2022

Prepared for

Acer Incorporated

8F, 88, Sec. 1, Xintai 5th Rd. Xizhi New Taipei City, 221, Taiwan

Prepared by

Shenzhen NTEK Testing Technology Co., Ltd.

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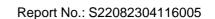
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TEST RESULT CERTIFICATION

Applicant's name:	Acer Incorporated		
Address:	BF, 88, Sec. 1, Xintai 5th Rd. Xizhi New Taipei City, 221, Taiwan		
Manufacturer's Name:	Acer Incorporated		
Address:	8F, 88, Sec. 1, Xintai 5th Rd. Xizhi New Taipei City, 221, Taiwan		
Product description			
Product name:	Tablet		
Model and/or type reference:	Acer_one_8_T2_Plus		
Family Model:	N/A		
Sample number	S220823041005		

Measurement Procedure Used:

APPLICABLE STANDARDS				
APPLICABLE STANDARD/ TEST PROCEDURE TEST R				
47 CFR Part 2, Part 22H, Part 24E				
ANSI/TIA-603-E-2016	Complied			
FCC KDB 971168 D01 Power Meas License Digital Systems v03				
ANSI C63.26:2015				

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

This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.

The test results of this report relate only to the tested sample identified in this report.

Date of Test	· ·	Aug 24, 2022 ~ Oct 18, 2022
Testing Engineer	:	Hen lin
		(Allen Liu)
Authorized Signatory	:	Ales
		(Alex Li)

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2 SUMMARY OF TEST RESULTS

FCC Part22H / FCC Part24E & ANSI C63.26-2015						
FCC Rule Test Item Verdict Remark						
2.1046	Conducted Output Power	PASS				
Sub clause 5.2.3.4 of ANSI C63.26-2015	Peak-to-Average Ratio	PASS				
2.1049 22.917	Occupied Bandwidth	PASS				
2.1051 22.917 24.238	Band Edge	PASS				
22.913	Effective Radiated Power	PASS				
2.1053 22.917 24.238	Field Strength of Spurious Radiation	PASS				
2.1055 22.355 24.235	Frequency Stability for Temperature & Voltage	PASS				
2.1051 22.917 24.238	Conducted Emission	PASS				

Remark:

- 1. "N/A" denotes test is not applicable in this Test Report.
- 2. All test items were verified and recorded according to the standards and without any deviation during
- 3. No modifications are made to the EUT during all test items.

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FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

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

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen 518126 P.R. China.

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

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516. The Certificate Registration Number is 9270A-1. **IC-Registration 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 : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

Street, Bao'an District, Shenzhen 518126 P.R. China.

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.5dB

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4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification						
Equipment Tablet						
Trade Mark acer						
FCC ID	HLZ-ACERONE8T2P					
Model No.	Acer_one_8_T2_Plus					
Family Model	N/A					
Model Difference	N/A					
Operating Frequency	□ GSM850: TX824.2MHz~848.8MHz /RX869.2MHz~893.8MHz; □ PCS1900: TX1850.2MHz~1909.8MHz /RX1930.2MHz~1989.8MHz;					
Modulation	⊠GMSK for GSM/GPRS; ⊠8PSK for EGPRS;					
Power Class 4, tested with power level 5(GSM 850) 1, tested with power level 0(GSM 1900)						
GPRS Class						
Antenna Type PIFA Antenna						
Antenna Gain GSM 850: 1.07 dBi; PCS 1900: 1.07dBi;						
Power supply	DC 3.7V from battery or DC 5V from Adapter.					
Battery	DC 3.7V, 4000mAh					
Adapter	MODEL: KA12C-0502000US INPUT: 100-240V~50/60Hz 0.35A Max OUTPUT: 5V2000mA					
HW Version	EM_T7818_V1.1 L20/MTK8766V/WAA					
SW Version Base_Acer_one_8_T2_Plus_mt6761_Android12_v001_20221101140214						

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

The High Voltage 4.2V and Low Voltage 3.4V was declared by manufacturer, The EUT couldn't be operate normally with higher or lower voltage.

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Revision History

Report No.	Version	Description	Issued Date
S22082304116005	Rev.01	Initial issue of report	Oct 20. 2022

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5 DESCRIPTION OF TEST MODES

During the testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication Tester(CMU 200) to ensure max power transmission and proper modulation. Three channels (The low channel, the middle channel and the high channel) were chosen for testing on, GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900.

Note: GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900 modes have been tested during the test. the worst condition (GSM850) be recorded in the test report if no other modes test data.

Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems v03 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

Radiated emissions were investigated as following frequency range:

- 1. 30 MHz to 10th harmonic for GSM850
- 2. 30 MHz to 10th harmonic for GSM1900

All modes and data rates and positions were investigated.

Test modes are chosen to be reported as the worst case configuration below:

Test Modes						
Band For Conducted Test Cases For Radiated Test Cases						
GSM 850/1900	GSM Link	GSM Link				

Test Frequency and Channels:

Frequency	⊠G	SM 850	⊠GSM 1900	
Band	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH_H	251	848.8	810	1909.8
CH_M	189	836.4	661	1880.0
CH_L	128	824.2	512	1850.2

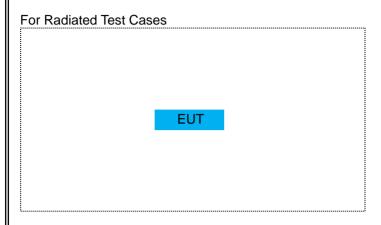
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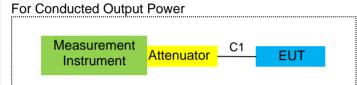




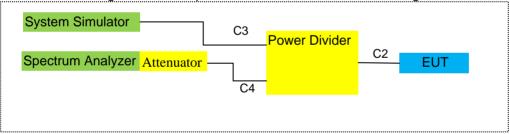
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

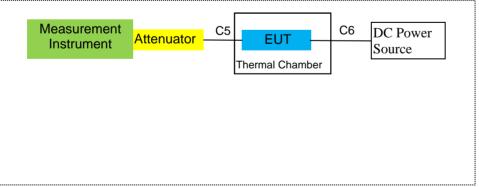




For Peak-to Average Ratio, Occupied Bandwidth, Conducted Band edge and Conducted Spurious Emission



For Frequency Stability



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6.2 SUPPORT EQUIPMENT

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.

tooto.					
Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	RF Cable	YES	NO	0.1m
C-2	RF Cable	YES	NO	0.1m
C-3	RF Cable	YES	NO	0.1m
C-4	RF Cable	YES	NO	0.2m
C-5	RF Cable	YES	NO	0.2m
C-6	DC Cable	NO	NO	1.0m

Notes:

- (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.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

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6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

14	Kind of	Manufacturan	T a Nia	Cominal Nin	Last	Calibrated	Calibration
Item	Equipment	Manufacturer	Type No.	Serial No.	calibration	until	period
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2022.04.06	2023.04.05	1 year
2	Test Receiver	R&S	ESPI	101318	2022.04.06	2023.04.05	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2022.03.30	2023.03.29	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
5	Horn Antenna	EM	EM-AH-1018 0	2011071402	2022.03.31	2023.03.30	3 year
6	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2022.06.17	2023.06.16	1 year
7	Amplifier	EM	EM-30180	060538	2022.06.17	2023.06.16	1 year
8	Loop Antenna	ARA	PLA-1030/B	1029	2022.04.06	2023.04.05	1 year
9	Power Meter	R&S	NRVS	100696	2022.06.17	2023.06.16	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.0 5	2022.04.06	2023.04.05	1 year
11	Test Cable	N/A	R-01	N/A	2020.05.11	2023.05.10	3 year
12	Test Cable	N/A	R-02	N/A	2020.05.11	2023.05.10	3 year
13	Test Cable	N/A	R-03	N/A	2022.06.17	2025.06.16	3 year
14	Test Receiver	R&S	ESCI	101160	2022.04.06	2023.04.05	1 year
15	LISN	R&S	ENV216	101313	2022.04.06	2023.04.05	1 year
16	LISN	EMCO	3816/2	00042990	2022.04.06	2023.04.05	1 year
17	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2022.04.06	2023.04.05	1 year
18	Passive Voltage Probe	R&S	ESH2-Z3	100196	2020.05.11	2023.05.10	3 year
19	Test Cable	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
20	Test Cable	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
21	Test Cable	N/A	C03	N/A	2020.05.11	2023.05.10	3 year
22	Spectrum Analyzer	agilent	e4440a	us44300399	2022.04.06	2023.04.05	1 year
23	test receiver	R&S	ESCI	a0304218	2022.04.06	2023.04.05	1 year
24	Communication Tester	R&S	CMU200	A0304247	2022.04.06	2023.04.05	1 year
25	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2022.04.06	2023.04.05	1 year
26	DC Power Source	N/A	PS-6005D	2017040292 3	2020.05.11	2023.05.10	3 year

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

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7 TEST REQUIREMENTS

7.1 FIELD STRENGTH OF SPURIOUS RADIATION

7.1.1 Applicable Standard

According to FCC KDB 971168 D01 v03 Section 5.8 and ANSI/TIA-603-E-2016 Section 2.2.12

7.1.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

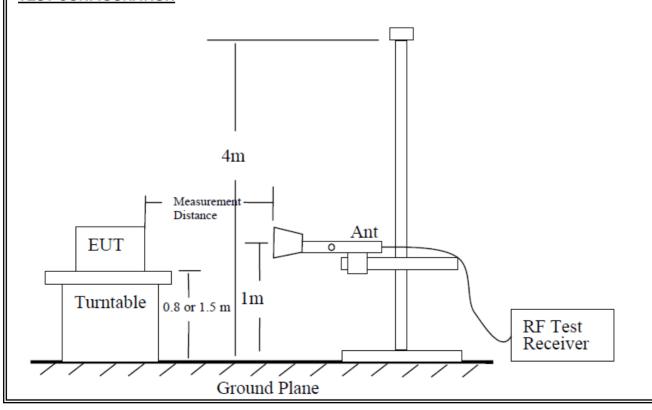
7.1.3 Measuring Instruments

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

7.1.4 Test Configuration

According to the ANSI/TIA-603-E-2016 test method, The Receiver or Spectrum was scanned from 9 KHz to the 10th harmonic of the highest frequency generated within the equipment, which is the transmitted carrier that can be as high as 1910 MHz The resolution bandwidth is set as outlined in Part 24.238, Part 22.917. The spectrum is scanned with the mobile station transmitting at carrier frequencies that pertain to low, mid and high channels of WCDMA Band II/IV/V, GSM 850/1900, CDMA BC0/1.

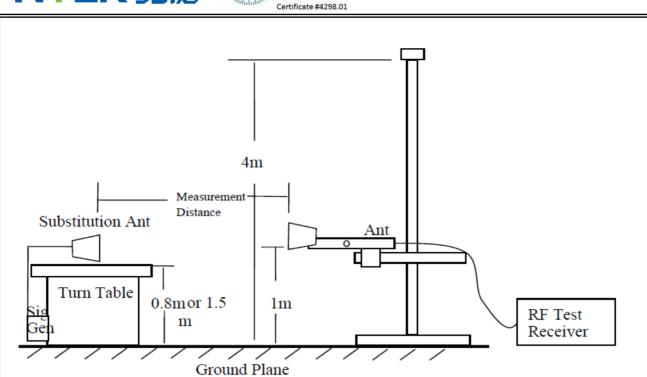
TEST CONFIGURATION



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7.1.5 Test Procedure

- 1. EUT was placed on a 0.8 meter(For frequency above 1G, EUT should be placed on 1.5m) high non-conductive stand at a 3 meter test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 meters from the EUT for emission measurements. The height of receiving antenna is 1.50 meter. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.
- 2. A log-periodic antenna or double-ridged waveguide horn antenna shall be substituted in place of the EUT. The log-periodic antenna will be driven by a signal generator and the level will be adjusted till the same power value on the spectrum analyzer or receiver. The level of the spurious emissions can be calculated through the level of the signal generator, cable loss, the gain of the substitution antenna and the reading of the spectrum analyzer or receiver.
- 3. The EUT is then put into continuously transmitting mode at its maximum power level during the test.Set Test Receiver or Spectrum RBW=1MHz,VBW=3MHz, And the maximum value of the receiver should be recorded as (P_r).
- 4. The EUT shall be replaced by a substitution antenna. In the chamber, an substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF Signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power (SG Level) is applied to the input of the substitution antenna, and adjust the level of the signal generator output until the value of the receiver reach the previously recorded (P_r). The power of signal source (SG Level) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.
- 5. A amplifier should be connected to the Signal Source output port. And the cable should be connect between the Amplifier and the Substitution Antenna. The cable loss (Cable Loss) ,the Substitution Antenna Gain should be recorded after test.
 - The measurement results are obtained as described below:
 - Power(EIRP)= SG Level- Cable Loss+ Antenna Gain
- 6. This value is EIRP since the measurement is calibrated using an antenna of known gain (2.15 dBi) and known input power.
- 7. ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

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7.1.6 Test Results

EUT:	Tablet	Model No.:	Acer_one_8_T2_Plus
Temperature:	20 ℃	Relative Humidity:	48%
I LECT IVIDAE.	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900,	Test By:	Allen Liu

Radiated Spurious Emission

			GSI	<i>l</i> l 850			
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
•	•	Test Re	sults for Cha	annel 128/82	4.2 MHz		
1648.4	-52.51	2.80	27.50	-27.81	-13	-14.81	Vertical
1648.4	-46.18	2.80	27.50	-21.48	-13	-8.48	Horizontal
2472.6	-46.04	2.91	27.80	-21.15	-13	-8.15	Vertical
2472.6	-47.44	2.91	27.80	-22.55	-13	-9.55	Horizontal
3296.8	-49.82	4.02	29.87	-23.97	-13	-10.97	Vertical
3296.8	-49.71	4.02	29.87	-23.86	-13	-10.86	Horizontal
131.2	-46.6	1.35	17.77	-30.18	-13	-17.18	Vertical
116.8	-44.79	1.77	17.83	-28.73	-13	-15.73	Horizontal
		Test Re	sults for Cha	annel 190/83	6.6 MHz		
1673.2	-48.4	2.80	27.48	-23.72	-13	-10.72	Vertical
1673.2	-47.11	2.80	27.48	-22.43	-13	-9.43	Horizontal
2509.8	-51.33	2.91	27.70	-26.54	-13	-13.54	Vertical
2509.8	-44.1	2.91	27.70	-19.31	-13	-6.31	Horizontal
3346.4	-53.66	4.02	29.82	-27.86	-13	-14.86	Vertical
3346.4	-45.34	4.02	29.82	-19.54	-13	-6.54	Horizontal
208.8	-46.49	1.44	15.26	-32.68	-13	-19.68	Vertical
131.6	-52.26	1.51	17.23	-36.54	-13	-23.54	Horizontal
		Test Re	sults for Cha	annel 251/84	8.8 MHz		
1697.6	-51.55	2.80	27.42	-26.93	-13	-13.93	Vertical
1697.6	-45.02	2.80	27.42	-20.40	-13	-7.40	Horizontal
2546.4	-47.62	2.91	27.68	-22.85	-13	-9.85	Vertical
2546.4	-51.49	2.91	27.68	-26.72	-13	-13.72	Horizontal
3395.2	-45.26	4.02	29.80	-19.48	-13	-6.48	Vertical
3395.2	-51.78	4.02	29.80	-26.00	-13	-13.00	Horizontal
95.0	-53.09	1.74	16.46	-38.37	-13	-25.37	Vertical
208.3	-52.09	1.68	16.21	-37.56	-13	-24.56	Horizontal

Remark:

- We were tested all Configuration refer 3GPP TS134 121.
 Emission Level= SG Level- Cable Loss+ Antenna Factor
- 3. Over Limit= Emission Level(dBm)-Limit(dBm)

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			GPR	S 850			
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
		Test Re	sults for Cha	annel 128/82	4.2 MHz		
1648.4	-49.44	2.80	27.50	-24.74	-13	-11.74	Vertical
1648.4	-53.44	2.80	27.50	-28.74	-13	-15.74	Horizontal
2472.6	-44.21	2.91	27.80	-19.32	-13	-6.32	Vertical
2472.6	-50.59	2.91	27.80	-25.70	-13	-12.70	Horizontal
3296.8	-48.25	4.02	29.87	-22.40	-13	-9.40	Vertical
3296.8	-44.45	4.02	29.87	-18.60	-13	-5.60	Horizontal
154.8	-45.39	1.35	16.91	-29.83	-13	-16.83	Vertical
238.4	-45.11	1.59	17.39	-29.30	-13	-16.30	Horizontal
		Test Re	sults for Cha	annel 190/83	6.6 MHz		
1673.2	-44.6	2.80	27.48	-19.92	-13	-6.92	Vertical
1673.2	-44.49	2.80	27.48	-19.81	-13	-6.81	Horizontal
2509.8	-48.74	2.91	27.70	-23.95	-13	-10.95	Vertical
2509.8	-46.81	2.91	27.70	-22.02	-13	-9.02	Horizontal
3346.4	-53.74	4.02	29.82	-27.94	-13	-14.94	Vertical
3346.4	-46.79	4.02	29.82	-20.99	-13	-7.99	Horizontal
110.1	-49.98	1.36	17.36	-33.98	-13	-20.98	Vertical
148.2	-50.82	1.32	15.19	-36.96	-13	-23.96	Horizontal
		Test Re	sults for Cha	annel 251/84	8.8 MHz		
1697.6	-50.02	2.80	27.42	-25.40	-13	-12.40	Vertical
1697.6	-47.85	2.80	27.42	-23.23	-13	-10.23	Horizontal
2546.4	-45.68	2.91	27.68	-20.91	-13	-7.91	Vertical
2546.4	-51.48	2.91	27.68	-26.71	-13	-13.71	Horizontal
3395.2	-50.82	4.02	29.80	-25.04	-13	-12.04	Vertical
3395.2	-47.94	4.02	29.80	-22.16	-13	-9.16	Horizontal
198.1	-52.82	1.46	17.68	-36.60	-13	-23.60	Vertical
220.2	-53.03	1.31	15.79	-38.55	-13	-25.55	Horizontal

Remark:

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. Emission Level= SG Level- Cable Loss+ Antenna Factor
- 3. Over Limit= Emission Level(dBm)-Limit(dBm)

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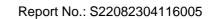


			EGPF	RS 850				
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity	
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	·	
Test Results for Channel 128/824.2 MHz								
1648.4	-47.02	2.80	27.50	-22.32	-13	-9.32	Vertical	
1648.4	-50.65	2.80	27.50	-25.95	-13	-12.95	Horizontal	
2472.6	-46.44	2.91	27.80	-21.55	-13	-8.55	Vertical	
2472.6	-47.1	2.91	27.80	-22.21	-13	-9.21	Horizontal	
3296.8	-52.98	4.02	29.87	-27.13	-13	-14.13	Vertical	
3296.8	-53.02	4.02	29.87	-27.17	-13	-14.17	Horizontal	
116.4	-47.87	1.69	16.60	-32.96	-13	-19.96	Vertical	
166.1	-45.36	1.44	17.78	-29.01	-13	-16.01	Horizontal	
		Test Re	sults for Cha	annel 190/83	6.6 MHz			
1673.2	-51.87	2.80	27.48	-27.19	-13	-14.19	Vertical	
1673.2	-52.75	2.80	27.48	-28.07	-13	-15.07	Horizontal	
2509.8	-51.84	2.91	27.70	-27.05	-13	-14.05	Vertical	
2509.8	-46.19	2.91	27.70	-21.40	-13	-8.40	Horizontal	
3346.4	-47.59	4.02	29.82	-21.79	-13	-8.79	Vertical	
3346.4	-44.89	4.02	29.82	-19.09	-13	-6.09	Horizontal	
160.1	-47.17	1.54	16.14	-32.58	-13	-19.58	Vertical	
246.5	-45.22	1.31	17.24	-29.29	-13	-16.29	Horizontal	
		Test Re	sults for Cha	annel 251/84	8.8 MHz			
1697.6	-52.67	2.80	27.42	-28.05	-13	-15.05	Vertical	
1697.6	-52.12	2.80	27.42	-27.50	-13	-14.50	Horizontal	
2546.4	-51.83	2.91	27.68	-27.06	-13	-14.06	Vertical	
2546.4	-46.39	2.91	27.68	-21.62	-13	-8.62	Horizontal	
3395.2	-47.53	4.02	29.80	-21.75	-13	-8.75	Vertical	
3395.2	-53.98	4.02	29.80	-28.20	-13	-15.20	Horizontal	
272.1	-53.19	1.73	15.96	-38.96	-13	-25.96	Vertical	
163.9	-48.1	1.35	17.53	-31.92	-13	-18.92	Horizontal	

Remark:

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. Emission Level= SG Level- Cable Loss+ Antenna Factor
- 3. Over Limit= Emission Level(dBm)-Limit(dBm)

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			GSM	7 1900			
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
		Test Res	sults for Cha	nnel 512/18	50.2MHz		
3700.4	-45.52	4.04	33.51	-16.05	-13	-3.05	Vertical
3700.4	-46.67	4.04	33.51	-17.20	-13	-4.20	Horizontal
5550.6	-49.47	5.24	35.84	-18.87	-13	-5.87	Vertical
5550.6	-52.48	5.24	35.84	-21.88	-13	-8.88	Horizontal
105.3	-49.62	1.40	15.14	-35.88	-13	-22.88	Vertical
247.6	-50.12	1.45	17.54	-34.03	-13	-21.03	Horizontal
		Test Re	sults for Cha	innel 661/18	80.0MHz		
3760	-47.49	4.04	33.56	-17.97	-13	-4.97	Vertical
3760	-50.54	4.04	33.56	-21.02	-13	-8.02	Horizontal
5640	-51.86	5.24	35.91	-21.19	-13	-8.19	Vertical
5640	-51.12	5.24	35.91	-20.45	-13	-7.45	Horizontal
187.9	-51.3	1.74	16.40	-36.64	-13	-23.64	Vertical
86.7	-50.33	1.42	15.72	-36.02	-13	-23.02	Horizontal
		Test Re	sults for Cha	innel 810/190	09.8MHz		
3819.6	-49.37	4.04	34.00	-19.41	-13	-6.41	Vertical
3819.6	-46.66	4.04	34.00	-16.70	-13	-3.70	Horizontal
5729.4	-50.5	5.24	36.04	-19.70	-13	-6.70	Vertical
5729.4	-50.32	5.24	36.04	-19.52	-13	-6.52	Horizontal
217.3	-53.06	1.67	17.51	-37.22	-13	-24.22	Vertical
112.7	-52.12	1.58	17.73	-35.97	-13	-22.97	Horizontal

Remark:

- 1. We were tested all Configuration refer 3GPP TS134 121.
- 2. Emission Level= SG Level- Cable Loss+ Antenna Factor
- 3. Over Limit= Emission Level(dBm)-Limit(dBm)

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			GPR	S 1900			
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	•
		Test Res	sults for Cha	nnel 512/18	50.2MHz		
3700.4	-46.15	4.04	33.51	-16.68	-13	-3.68	Vertical
3700.4	-46.52	4.04	33.51	-17.05	-13	-4.05	Horizontal
5550.6	-51.5	5.24	35.84	-20.90	-13	-7.90	Vertical
5550.6	-49.4	5.24	35.84	-18.80	-13	-5.80	Horizontal
249.9	-52.15	1.66	17.06	-36.76	-13	-23.76	Vertical
237.9	-52.82	1.34	15.54	-38.62	-13	-25.62	Horizontal
		Test Res	sults for Cha	nnel 661/18	80.0MHz		
3760	-49.61	4.04	33.56	-20.09	-13	-7.09	Vertical
3760	-50.82	4.04	33.56	-21.30	-13	-8.30	Horizontal
5640	-48.52	5.24	35.91	-17.85	-13	-4.85	Vertical
5640	-51.62	5.24	35.91	-20.95	-13	-7.95	Horizontal
168.5	-50.28	1.33	16.18	-35.43	-13	-22.43	Vertical
249.4	-46.46	1.60	17.99	-30.07	-13	-17.07	Horizontal
		Test Res	sults for Cha	nnel 810/19	09.8MHz		
3819.6	-48.53	4.04	34.00	-18.57	-13	-5.57	Vertical
3819.6	-51.72	4.04	34.00	-21.76	-13	-8.76	Horizontal
5729.4	-53.56	5.24	36.04	-22.76	-13	-9.76	Vertical
5729.4	-47.87	5.24	36.04	-17.07	-13	-4.07	Horizontal
206.6	-49.06	1.65	17.27	-33.45	-13	-20.45	Vertical
227.8	-44.32	1.39	15.49	-30.23	-13	-17.23	Horizontal

Remark:

- We were tested all Configuration refer 3GPP TS134 121.
 Emission Level= SG Level- Cable Loss+ Antenna Factor
 Over Limit= Emission Level(dBm)-Limit(dBm)

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			EGPR	S 1900			
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	Í
		Test Res	sults for Cha	nnel 512/18	50.2MHz		
3700.4	-50.17	4.04	33.51	-20.70	-13	-7.70	Vertical
3700.4	-52.35	4.04	33.51	-22.88	-13	-9.88	Horizontal
5550.6	-50.09	5.24	35.84	-19.49	-13	-6.49	Vertical
5550.6	-51.12	5.24	35.84	-20.52	-13	-7.52	Horizontal
224.9	-48.81	1.41	17.87	-32.35	-13	-19.35	Vertical
105.4	-44.7	1.47	17.45	-28.73	-13	-15.73	Horizontal
		Test Res	sults for Cha	innel 661/18	80.0MHz		
3760	-51.66	4.04	33.56	-22.14	-13	-9.14	Vertical
3760	-53.14	4.04	33.56	-23.62	-13	-10.62	Horizontal
5640	-51.18	5.24	35.91	-20.51	-13	-7.51	Vertical
5640	-53.82	5.24	35.91	-23.15	-13	-10.15	Horizontal
110.0	-48.35	1.35	15.31	-34.40	-13	-21.40	Vertical
231.5	-45.28	1.48	17.05	-29.71	-13	-16.71	Horizontal
		Test Res	sults for Cha	innel 810/19	09.8MHz		
3819.6	-48.18	4.04	34.00	-18.22	-13	-5.22	Vertical
3819.6	-52.16	4.04	34.00	-22.20	-13	-9.20	Horizontal
5729.4	-47.05	5.24	36.04	-16.25	-13	-3.25	Vertical
5729.4	-49.1	5.24	36.04	-18.30	-13	-5.30	Horizontal
156.0	-46.99	1.49	17.71	-30.77	-13	-17.77	Vertical
144.9	-49.15	1.55	15.08	-35.62	-13	-22.62	Horizontal

Remark:

- We were tested all Configuration refer 3GPP TS134 121.
 Emission Level= SG Level- Cable Loss+ Antenna Factor
- 3. Over Limit= Emission Level(dBm)-Limit(dBm)

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7.2 EFFECTIVE RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

7.2.1 Applicable Standard

According to FCC KDB 971168 D01 v03 Section 5.2.1/ Section 5.2.2.2 and ANSI/TIA-603-E-2016 Section 2.2.17

7.2.2 Conformance Limit

The substitution method, in ANSI/TIA-603-E-2016, was used for ERP/EIRP measurement, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems v03. The ERP of mobile transmitters must not exceed 7 Watts (Cellular Band) and the EIRP of mobile transmitters are limited to 2 Watts (PCS Band).

7.2.3 Measuring Instruments

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

7.2.4 Test Configuration

(a) For E.R.P and E.I.R.P Measurements Please refer to the section 7.1.4 in this report.

7.2.5 Test Procedure

The measurements procedures specified in ANSI/TIA-603-E-2016 were applied.

In an anechoic antenna test chamber, a half-wave dipole antenna for the frequency band of interest is placed at the reference centre of the chamber. An RF Signal source for the frequency band of interest is connected to the dipole with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A known (measured) power (Pin) is applied to the input of the dipole, and the power received (Pr) at the chamber's probe antenna is recorded.

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured using the guidance provided above is:

ERP/EIRP = SGLevel -Pcl +Ga

where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as SGLevel, typically dBW or dBm);

SGLevel = Signal generator output power or PSD, in dBm or dBW;

Ga = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

Pcl = signal attenuation in the connecting cable between the transmitter and antenna, in dB.²

The EUT is substituted for the dipole at the reference centre of the chamber and a scan is performed to obtain the radiation pattern.

From the radiation pattern, the co-ordinates where the maximum antenna gain occurs are identified.

The EUT is then put into continuously transmitting mode at its maximum power level.

Power mode measurements are performed with the receiving antenna placed at the coordinates determined in Step 3 to determine the output power as defined in Rule 24.232 (b) and (c). The "reference path loss" from Step 1 is added to this result.

This value is EIRP since the measurement is calibrated using a half-wave dipole antenna of known gain (2.15 dBi) and known input power (Pin).

ERP can be calculated from EIRP by subtracting the gain of the dipole, ERP = EIRP -2.15dBi.

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

Substitution antenna and Receiving Antenna:

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Character	Note
1	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Receiving Antenna
2	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Receiving Antenna
3	Bilog Antenna	TESEQ	CBL6111D	31216	30MHz~2GHz	Substitution antenna
4	Horn Antenna	EM	EM-AH-10180	2011071402	1GHz~18GHz	Substitution antenna

Use the following spectrum analyzer settings:

Ose the following specif	um analyzer settings.
	GSM/GPRS/EGPRS
Span	500KHz
RBW	10KHz
VBW	30KHz
Detector	RMS
Trace	Average
Average Type	Power
Sweep Count	100

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7.2.6 Test Results

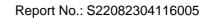
EUT:	Tablet	Model No.:	Acer_one_8_T2_Plus
Temperature:	120 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900,	Test By:	Allen Liu

■ Effective Radiated Power

	Radiated Power (ERP) for GSM850									
Frequency	Polarization	SG Level	Pcl	Antenna Factor	Correction	ERP	ERP			
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)			
824.2	Н	13.75	2.11	23.84	2.15	33.33	2.152782			
836.4	Н	14.69	2.13	23.15	2.15	33.56	2.269865			
848.8	Н	14.26	2.13	23.06	2.15	33.04	2.013724			
824.2	V	14.89	2.11	23.11	2.15	33.74	2.365920			
836.4	V	14.35	2.13	23.07	2.15	33.14	2.060630			
848.8	V	13.87	2.13	23.25	2.15	32.84	1.923092			

	Radiated Power (ERP) for GPRS850							
Frequency	Polarization	SG Level	Pcl	Antenna Factor	Correction	ERP	ERP	
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)	
824.2	Н	13.52	2.11	23.84	2.15	33.10	2.041738	
836.4	Н	14.14	2.13	23.15	2.15	33.01	1.999862	
848.8	Н	14.78	2.13	23.06	2.15	33.56	2.269865	
824.2	V	14.37	2.11	23.11	2.15	33.22	2.098940	
836.4	V	14.56	2.13	23.07	2.15	33.35	2.162719	
848.8	V	14.09	2.13	23.25	2.15	33.06	2.023019	

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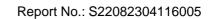






	Radiated Power (ERP) for EGPRS850						
Frequency	Polarization	SG Level	Pcl	Antenna Factor	Correction	ERP	ERP
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)
824.2	Н	8.25	2.11	23.84	2.15	27.83	0.606736
836.6	Н	10.20	2.13	23.15	2.15	29.07	0.807235
848.8	Н	10.77	2.13	23.06	2.15	29.55	0.901571
824.2	V	9.08	2.11	23.11	2.15	27.93	0.620869
836.6	V	10.00	2.13	23.07	2.15	28.79	0.756833
848.8	V	9.02	2.13	23.25	2.15	27.99	0.629506

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D " (D D) (00111000							
	Radiated Power (E.I.R.P) for GSM1900						
Frequency	'I Polarization I I I	Antenna Factor	EIRP	EIRP			
		Level					
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)	
1850.2	Н	7.43	3.76	28.24	31.91	1.552387	
1880	Н	7.71	3.91	28.22	32.02	1.592209	
1909.8	Н	7.62	3.93	28.20	31.89	1.545254	
1850.2	V	8.42	3.76	27.32	31.98	1.577611	
1880	V	9.27	3.91	27.33	32.69	1.857804	
1909.8	V	9.37	3.93	27.31	32.75	1.883649	

	Radiated Power (E.I.R.P) for GPRS1900						
Frequency	Polarization	SG Level	Pcl	Ga Antenna Gain	EIRP	EIRP	
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)	
1850.2	Н	8.29	3.76	28.24	32.77	1.892344	
1880	Н	8.34	3.91	28.22	32.65	1.840772	
1909.8	Н	7.67	3.93	28.20	31.94	1.563148	
1850.2	V	9.10	3.76	27.32	32.66	1.845015	
1880	V	9.29	3.91	27.33	32.71	1.866380	
1909.8	V	8.60	3.93	27.31	31.98	1.577611	

Radiated Power (E.I.R.P) for EGPRS1900						
Frequency	Polarization	SG Level	Pcl	Antenna Factor	EIRP	EIRP
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)
1850.2	Н	4.06	3.76	28.24	28.54	0.714496
1880	Н	4.44	3.91	28.22	28.75	0.749894
1909.8	Н	4.45	3.93	28.20	28.72	0.744732
1850.2	V	4.96	3.76	27.32	28.52	0.711214
1880	V	5.36	3.91	27.33	28.78	0.755092
1909.8	V	5.42	3.93	27.31	28.80	0.758578

Note:

SG Level= Signal generator output Pcl= cable loss

Ga= Antenna Factor

Peak EIRP(dBm)= SGLevel -Pcl +Ga ERP(dBm)=EIRP-2.15

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7.3 CONDUCTED OUTPUT POWER

7.3.1 Applicable Standard

According to FCC Part 2.1046 and FCC Part 22.913(a)(2)) and FCC KDB 971168 D01 v03 Section 5.2

7.3.2 Conformance Limit

Extend coverage on a secondary basis into cellular unserved areas, as those areas are defined in §22.949, the ERP of base transmitters and cellular repeaters of such systems must not exceed 1000 Watts. The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts(38.5dBm).

Mobile and portable stations are limited to 2 watts (33dBm)EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications..

For CDMA2000 Power: Maxmum output power is verified on the Low, Middle and High channels according to procedures in section 4.4.5.2.of 3GPP2 C.S0011/TIA-98-E for 1Xrtt, section 3.1.2.3.4 of 3GPP2 C.S0033-0/TIA-866 for Rel.0 and section 4.3.4 of 3GPP2 C.S0033-A for Rev.A.

7.3.3 Measuring Instruments

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

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. The frequency band is set as selected frequency, The RF output of the transmitter was connected to base station simulator.

Set EUT at maximum average power by base station simulator.

Set RBW = 1-5% of the OBW, not to exceed 1 MHz.

Set VBW ≥ 3 × RBW.

Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)

Sweep time = auto.

Detector = RMS (power averaging).

Set sweep trigger to "free run".

Trace average at least 100 traces in power averaging (i.e., RMS) mode; however, the number of traces to be averaged shall be increased above 100 as needed such that the average accurately represents the true average over the on and off periods of the transmitter.

Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10 log (1/0.25) = 6 dB if the duty cycle is a constant 25%.

Measure lowest, middle, and highest channels for each bandwidth and different modulation.

Measure and record the results in the test report.

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7.3.6 Test Results

EUT:	Tablet	Model No.:	Acer_one_8_T2_Plus
Temperature:	120°C	Relative Humidity:	48%
I I DET IVIOND:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900,	Test By:	Allen Liu

Test data reference attachment

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7.4 FREQUENCY STABILITY

7.4.1 Applicable Standard

According to FCC Part 2.1055 and FCC Part 22.355 and FCC KDB 971168 D01 Section 9.0

7.4.2 Conformance Limit

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5ppm) of the center frequency.

7.4.3 Measuring Instruments

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

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the ARFCN range, power control level set to Max power. MS TXPWR_MAX_CCH is set to the maximum value supported by the Power Class of the Mobile under test.

EUT was placed at temperature chamber and connected to an external power supply.

Temperature and voltage condition shall be tested to confirm frequency stability.

For Temperature Variation

- 1. The testing follows FCC KDB 971168 D01 v03 Section 9.0.
- 2. The EUT was set up in the thermal chamber and connected with the system simulator.
- 3. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
- 4. With power OFF, the temperature was raised in 10°C steps up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

For Voltage Variation

- 1. The testing follows FCC KDB 971168 D01 v03 Section 9.0.
- 2. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
- 3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
- 4. The variation in frequency was measured for the worst case.

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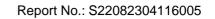


7.4.6 Test Results

Temperature:20 °CRelative Humidity:48%Test Mode:GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900,Test By:Allen Liu	EUT:	Tablet	Model No.:	Acer_one_8_T2_Plus
LLAST MODE. I LAST BY: LABOR LILL	Temperature:	20 ℃	Relative Humidity:	48%
	Test Mode:	·	Test By:	Allen Liu

Results: PASS

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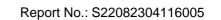
Frequency Error Against Voltage for GSM 850 band(Mid CH)				
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)		
3.4	8.56	0.010234		
3.7	6.4	0.007652		
4.2	9.82	0.011741		

Frequen	Frequency Error Against Temperature for GSM 850 band(Mid CH)				
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)			
-30	8.54	0.010210			
-20	8.29	0.009912			
-10	9.31	0.011131			
0	6.18	0.007389			
10	7.15	0.008549			
20	6.05	0.007233			
30	6.71	0.008022			
40	8.42	0.010067			
50	11.04	0.013199			

Frequency Error Against Voltage for GPRS850 band(Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	8.04	0.009613	
3.7	6.32	0.007556	
4.2	8.53	0.010198	

Frequen	Frequency Error Against Temperature for GPRS850 band(Mid CH)				
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)			
-30	8.12	0.009708			
-20	8.66	0.010354			
-10	7.38	0.008824			
0	6.01	0.007186			
10	7.91	0.009457			
20	6.85	0.008190			
30	7.59	0.009075			
40	7	0.008369			
50	11.9	0.014228			

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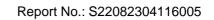
Frequency Error Against Voltage for EGPRS850 band(Mid CH)				
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)		
3.4	9.87	0.011801		
3.7	7.23	0.008644		
4.2	6.3	0.007532		

Frequency Error Against Temperature for EGPRS850 band(Mid CH)				
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)		
-30	4.72	0.005643		
-20	9.97	0.011920		
-10	6.24	0.007461		
0	6.13	0.007329		
10	8.26	0.009876		
20	8.6	0.010282		
30	6.47	0.007736		
40	6.14	0.007341		
50	13.2	0.015782		

Note:

- 1. Normal Voltage = 3.7V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.2V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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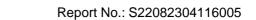
Frequency Error Against Voltage for PCS 1900 band (Mid CH)				
Voltage (V)				
3.4	18.45	0.009814		
3.7	17.28	0.009191		
4.2	20.76	0.011043		

Frequency Error Against Temperature for PCS 1900 band (Mid CH)				
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)		
-30	20.04	0.010660		
-20	19.87	0.010569		
-10	20.42	0.010862		
0	18.15	0.009654		
10	16.83	0.008952		
20	16.73	0.008899		
30	19.32	0.010277		
40	19.23	0.010229		
50	22.77	0.012112		

Frequency Error Against Voltage for GPRS1900 band (Mid CH)			
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4 16.39 0.008718		0.008718	
3.7	16.35	0.008697	
4.2	19.14	0.010181	

Frequency Error Against Temperature for GPRS1900 band (Mid CH)				
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)		
-30	20.15	0.010718		
-20	20.99	0.011165		
-10	20.57	0.010941		
0	20.75	0.011037		
10	16.35	0.008697		
20	16.58	0.008819		
30	19.89	0.010580		
40	19.02	0.010117		
50	20.8	0.011064		

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Frequency Error Against Voltage for EGPRS1900 band (Mid CH)				
Voltage (V)	/) Frequency Error (Hz) Frequency Error (ppm)			
3.4	20.71	0.011016		
3.7	17.68	0.009404		
4.2	18.29	0.009729		

Frequency Error Against Temperature for EGPRS1900 band (Mid CH)				
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)		
-30	20.56	0.010936		
-20	18.44	0.009809		
-10	20.45	0.010878		
0	19.51	0.010378		
10	17.39	0.009250		
20	18.42	0.009798		
30	18.39	0.009782		
40	20.22	0.010755		
50	21	0.011170		

Note:

- 1. Normal Voltage = 3.7V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.2V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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7.5 PEAK-TO-AVERAGE RATIO

7.5.1 Applicable Standard

According to Subclause 5.2.3.4 of ANSI C63.26-2015 and FCC KDB 971168 D01 Section 5.7.1

7.5.2 Conformance Limit

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

7.5.3 Measuring Instruments

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

7.5.4 Test Setup

Please refer to Section 6.1 of this test report.

7.5.5 Test Procedure

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set the number of counts to a value that stabilizes the measured CCDF curve.

Set the measurement interval to 1 ms.

Record the maximum PAPR level associated with a probability of 0.1%.

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function:
- b) Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Set the measurement interval as follows:
- 1) for continuous transmissions, set to 1 ms,
- 2) for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- e) Record the maximum PAPR level associated with a probability of 0.1%.

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7.5.6 Test Results

EUT:	Tablet	Model No.:	Acer_one_8_T2_Plus
Temperature:	20 ℃	Relative Humidity:	48%
I LEST IVIDAE.	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900,	Test By:	Allen Liu
Results: PASS			

The Test data reference attachment:

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7.6 26DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

Applicable Standard 7.6.1

According to FCC Part 2.1049 and FCC Part 22H and FCC KDB 971168 D01 Section 4

Conformance Limit 7.6.2

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

7.6.3 **Measuring Instruments**

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

7.6.4 **Test Setup**

Please refer to Section 6.1 of this test report.

7.6.5 **Test Procedure**

The testing follows FCC KDB 971168 v03 Section 4.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.

The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.

Set the detection mode to peak, and the trace mode to max hold.

Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.

(this is the reference value)

Determine the "-26 dB down amplitude" as equal to (Reference Value - X).

Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the "-X dB down amplitude" determined in step 6. If a marker is below this "-X dB down amplitude" value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.

Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.

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7.6.6 Test Results

EUT:	Tablet	Model No.:	Acer_one_8_T2_Plus
Temperature:	20 ℃	Relative Humidity:	48%
I LEST IVIDAE.	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900,	Test By:	Allen Liu
Results: PASS			

The Test data reference attachment:

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7.7 CONDUCTED BAND EDGE

7.7.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and FCC KDB 971168 D01 Section6.

7.7.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

7.7.3 Measuring Instruments

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

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

The band edges of low and high channels for the highest RF powers were measured.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

7.7.6 Test Results

EUT:	Tablet	Model No.:	Acer_one_8_T2_Plus
Temperature:	20 ℃	Relative Humidity:	48%
LI DOT IVIDAD.	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900,	Test By:	Allen Liu
Results: PASS			

The Test data reference attachment:

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7.8 CONDUCTED SPURIOUS EMISSION AT ANTENNA TERMINAL

7.8.1 Applicable Standard

According to FCC Part 2.1051 and FCC Part 22.917(a) and FCC KDB 971168 D01 Section6.

7.8.2 Conformance Limit

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

7.8.3 Measuring Instruments

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

7.8.4 Test Setup

Please refer to Section 6.1 of this test report.

7.8.5 Test Procedure

The testing follows FCC KDB 971168 v03 Section 6.

The EUT was connected to Spectrum Analyzer and Base Station via power divider.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

The middle channel for the highest RF power within the transmitting frequency was measured.

The conducted spurious emission for the whole frequency range was taken.

The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from 43 + 10log(P) dB below the transmitter power P(Watts)

- = P(W) [43 + 10log(P)] (dB)
- = [30 + 10log(P)] (dBm) [43 + 10log(P)] (dB)
- = -13dBm.

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7.8.6 Test Results

EUT:	Tablet	Model No.:	Acer_one_8_T2_Plus
Temperature:	120 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900,	Test By:	Allen Liu
Results: PASS			

The Test data reference attachment:

END OF REPORT

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