



FCC RADIO TEST REPORT FCC ID: 2AZYA-AX61

Product: Mobile Phone

Trade Mark: ACER

Model No.: SOSPIRO-AX61

Family Model: SOSPIRO-AX61-B, SOSPIRO-AX61-N

Report No.: S23081105002004

Issue Date: Aug 31, 2023

Prepared for

Senwa Global International, S.A. de C.V.

Carretera Mexico-Toluca No. 5324 PB, Colonia El Yaqui Del. Cuajimalpa de Morelos, C.P. 05320 Ciudad de Mexico, Mexico

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name:	Senwa Global International, S.A. de C.V.
Address	Carretera Mexico-Toluca No. 5324 PB, Colonia El Yaqui Del. Cuajimalpa de Morelos, C.P. 05320 Ciudad de Mexico, Mexico
Manufacturer's Name:	Senwa Mobile China Ltd
Address:	A611, Languang technology building, No. 27, Gaoxin North 6th Road, songpingshan community, Xili street, Nanshan District, Shenzhen, Guangdong Province
Product description	
Product name:	Mobile Phone
Model and/or type reference:	SOSPIRO-AX61
Family Model:	SOSPIRO-AX61-B, SOSPIRO-AX61-N
Sample number	S230811050003

Measurement Procedure Used:

Nodedi official Toocaano Good.						
APPLICABLE STANDARDS						
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT					
47 CFR Part 2, Part 22H, Part 24E, Part 27						
ANSI/TIA-603-E-2016	Complied					
FCC KDB 971168 D01 Power Meas License Digital Systems v03	Complied					
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.

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

Date of Test	:_	Aug 14, 2023 ~ Aug 31, 2023
Testing Engineer	:_	Hen lin
		(Allen Liu)
Authorized Signatory	:	Aless
3 ,	_	(Alex Li)

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2 SUMMARY OF TEST RESULTS

FCC Part22H / FCC Part24E / FCC Part 27 & 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 27.53	Band Edge	PASS					
22.913	Effective Radiated Power	PASS					
2.1053 22.917 24.238 27.53	Field Strength of Spurious Radiation	PASS					
2.1055 22.355 24.235 27.54	Frequency Stability for Temperature & Voltage	PASS					
2.1051 22.917 24.238 27.53	Conducted Emission	PASS					

Remark:

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

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3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

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

1&5/F, Building C, 1&2/F, Building E, Fenda Science Park, Sanwei Community, Hangcheng Street, Baoan District, Shenzhen ,Guangdong, 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

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&5/F, Building C, 1&2/F, Building E, Fenda Science Park, Sanwei

Community, Hangcheng Street, Baoan District, Shenzhen ,Guangdong,

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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GENERAL DESCRIPTION OF FUT

Product Feature and Specification					
Equipment	Mobile Phone				
Trade Mark	ACER				
FCC ID	2AZYA-AX61				
Model No.	SOSPIRO-AX61				
Family Model	SOSPIRO-AX61-B, SOSPIRO-AX61-N				
Model Difference	All models are the same circuit and RF module, except the model name and colour.				
Operating Frequency	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐				
Modulation					
Power Class	4, tested with power level 5(GSM 850) 1, tested with power level 0(GSM 1900) 3, tested with power control "all 1"(WCDMA Band II/IV/V)				
GPRS Class					
SIM CARD	SIM 1 and SIM 2 is a chipset unit and tested as a single chipset. The SIM 1 is chosen for test.				
Antenna Type	PIFA Antenna				
Antenna Gain	GSM850:-0.94 dBi; GSM1900:-0.61 dBi; WCDMA B2:-0.64 dBi; WCDMA B5:-0.91 dBi;				
Power supply	DC 3.87V from battery or DC 5V from adapter				
Battery	DC 3.87V, 4900mAh				
Adapter	Model: SGCH0018 Input: 100-240Vca 50/60Hz 0.5A Output: 5.0Vcc 3A, 9.0Vcc 2A 18W				
HW Version	ums5121h10_V1.0				
SW Version	Acer_AX61_Ver01				
Note: Deced on the applicat	ion features or specification exhibited in User's Manual, the ELIT is considered as an ITE/Computing Device, Mor				

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 4.4V 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
S23081105002004	Rev.01	Initial issue of report	Aug 31, 2023

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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, HSDPA band II, HSUPA band II, HSUPA band V, HSUPA band V, HSUPA band IV frequency band.

Note: GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, HSDPA band II, HSDPA band II, HSDPA band V, HSDPA band IV, HSDPA band IV modes have been tested during the test. the worst condition (GSM850, RMC 12.2k,) 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/UMTS FDD Band $\,\mathrm{IV}$
- 2. 30 MHz to 10th harmonic for GSM1900/UMTS FDD Band II

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			
UMTS Band II	RMC 12.2Kbps Link	RMC 12.2Kbps Link			
UMTS Band V	RMC 12.2Kbps Link	RMC 12.2Kbps Link			
UMTS Band IV	RMC 12.2Kbps Link	RMC 12.2Kbps Link			

Test Frequency and Channels:

Took to queriey and originates								
Frequency	☑ GSM 850		⊠GSM 1900				⊠UMTS Band V	
Band	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
CH_H	251	848.8	810	1909.8	9538	1907.6	4233	846.6
CH_M	189	836.4	661	1880.0	9400	1880.0	4182	836.4
CH_L	128	824.2	512	1850.2	9262	1852.4	4132	826.4

Frequency	☑ UMTS Band IV		
Band	Channel	Frequency (MHz)	
CH_H	1513	1752.6	
CH_M	1412	1732.4	
CH_L	1312	1712.4	

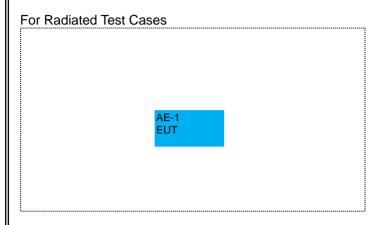
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6 SETUP OF EQUIPMENT UNDER TEST

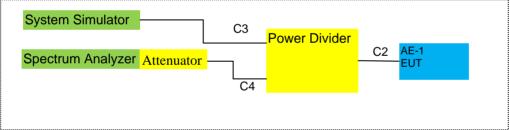
6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



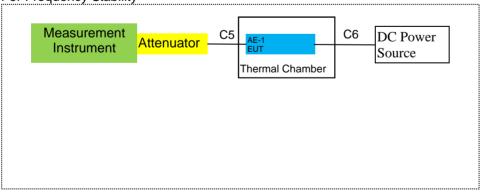
For Conducted Output Power



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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
AE-1	Mobile Phone	ACER	SOSPIRO-AX61	N/A	EUT

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

	Kind of				Last	Calibrated	Calibration
Item	Equipment	Manufacturer	Type No.	Serial No.	calibration	until	period
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2023.05.29	2024.05.28	1 year
2	Test Receiver	R&S	ESPI	101318	2023.03.27	2024.03.26	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2023.03.27	2024.03.26	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2023.05.06	2026.05.05	3 year
5	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9120 D	2816	2023/1/12	2024/1/11	3 year
6	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9120 D	2817	2023/1/12	2024/1/11	1 year
7	Amplifier	EM	EM-30180	060538	2023.05.29	2024.05.28	1 year
8	Loop Antenna	ARA	PLA-1030/B	1029	2023.03.27	2024.03.26	1 year
9	Power Meter	R&S	NRVS	100696	2023.05.29	2024.05.28	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.0 5	2023.03.27	2024.03.26	1 year
11	Test Cable	N/A	R-01	N/A	2022.06.17	2025.06.16	3 year
12	Test Cable	N/A	R-02	N/A	2022.06.17	2025.06.16	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	2023.03.27	2024.03.26	1 year
15	LISN	R&S	ENV216	101313	2023.03.27	2024.03.26	1 year
16	LISN	EMCO	3816/2	00042990	2023.03.27	2024.03.26	1 year
17	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2023.03.27	2024.03.26	1 year
18	Passive Voltage Probe	R&S	ESH2-Z3	100196	2023.03.27	2024.03.26	1 year
19	Test Cable	N/A	C01	N/A	2023.05.06	2026.05.05	3 year
20	Test Cable	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
21	Test Cable	N/A	C03	N/A	2023.05.06	2026.05.05	3 year
22	Spectrum Analyzer	agilent	e4440a	us44300399	2023.03.27	2024.03.26	1 year
23	test receiver	R&S	ESCI	a0304218	2023.03.27	2024.03.26	1 year
24	Communication Tester	R&S	CMU200	A0304247	2023.03.27	2024.03.26	1 year
25	Thermal Chamber	Ten Billion	TTC-B3C	TBN-960502	2023.03.27	2024.03.26	1 year
26	DC Power Source	N/A	PS-6005D	2017040292 3	2023.05.06	2026.05.05	3 year

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27	Log-Periodic Antenna	SCHWARZBE CK	VULB 9162	584	2023/1/11	2024/1/10	1 year
28	Log-Periodic Antenna	SCHWARZBE CK	VULB 9162	586	2023/1/11	2024/1/10	1 year
29	ESG Vetctor Signal Generator	Agilent	E4438C	MY45093347	2023/3/21	2024/3/20	1 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.

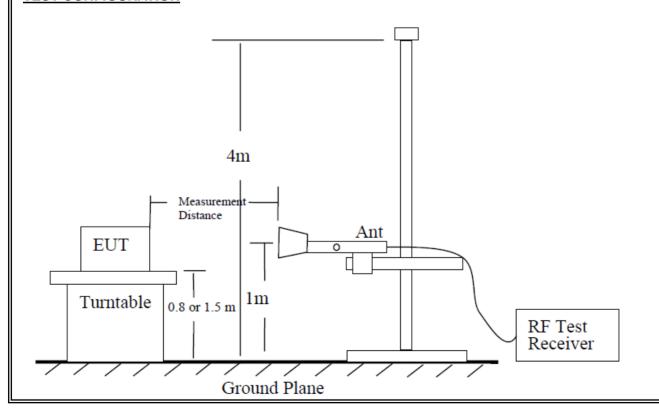
7.1.3 Measuring Instruments

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

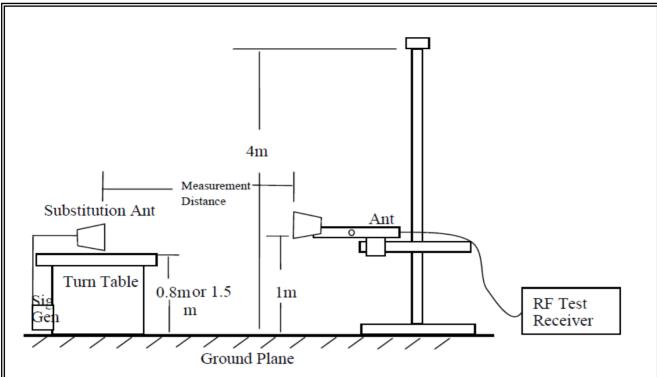


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7.1.5 **Test Procedure**

- 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.
- 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:	Mobile Phone	Model No.:	SOSPIRO-AX61
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	, .	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	nnel 128/82	4.2 MHz	-	-	
1648.4	-49.15	2.80	27.50	-24.45	-13	-11.45	Vertical	
1648.4	-48.47	2.80	27.50	-23.77	-13	-10.77	Horizontal	
2472.6	-44.11	2.91	27.80	-19.22	-13	-6.22	Vertical	
2472.6	-51	2.91	27.80	-26.11	-13	-13.11	Horizontal	
3296.8	-45.17	4.02	29.87	-19.32	-13	-6.32	Vertical	
3296.8	-45.99	4.02	29.87	-20.14	-13	-7.14	Horizontal	
131.2	-49.81	1.35	17.77	-33.39	-13	-20.39	Vertical	
116.8	-46.05	1.77	17.83	-29.99	-13	-16.99	Horizontal	
Test Results for Channel 190/836.6 MHz								
1673.2	-44.63	2.80	27.48	-19.95	-13	-6.95	Vertical	
1673.2	-49.07	2.80	27.48	-24.39	-13	-11.39	Horizontal	
2509.8	-53.71	2.91	27.70	-28.92	-13	-15.92	Vertical	
2509.8	-51.32	2.91	27.70	-26.53	-13	-13.53	Horizontal	
3346.4	-50.04	4.02	29.82	-24.24	-13	-11.24	Vertical	
3346.4	-49.18	4.02	29.82	-23.38	-13	-10.38	Horizontal	
208.8	-50.57	1.44	15.26	-36.76	-13	-23.76	Vertical	
131.6	-46.44	1.51	17.23	-30.72	-13	-17.72	Horizontal	
		Test Re	sults for Cha	annel 251/84	8.8 MHz			
1697.6	-49.93	2.80	27.42	-25.31	-13	-12.31	Vertical	
1697.6	-47.73	2.80	27.42	-23.11	-13	-10.11	Horizontal	
2546.4	-51.03	2.91	27.68	-26.26	-13	-13.26	Vertical	
2546.4	-47.32	2.91	27.68	-22.55	-13	-9.55	Horizontal	
3395.2	-50.67	4.02	29.80	-24.89	-13	-11.89	Vertical	
3395.2	-50.18	4.02	29.80	-24.40	-13	-11.40	Horizontal	
95.0	-49.1	1.74	16.46	-34.38	-13	-21.38	Vertical	
208.3	-50.66	1.68	16.21	-36.13	-13	-23.13	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 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	-47.32	2.80	27.50	-22.62	-13	-9.62	Vertical		
1648.4	-51.77	2.80	27.50	-27.07	-13	-14.07	Horizontal		
2472.6	-51.01	2.91	27.80	-26.12	-13	-13.12	Vertical		
2472.6	-47.3	2.91	27.80	-22.41	-13	-9.41	Horizontal		
3296.8	-48.31	4.02	29.87	-22.46	-13	-9.46	Vertical		
3296.8	-45.06	4.02	29.87	-19.21	-13	-6.21	Horizontal		
154.8	-46.69	1.35	16.91	-31.13	-13	-18.13	Vertical		
238.4	-50.37	1.59	17.39	-34.56	-13	-21.56	Horizontal		
	Test Results for Channel 190/836.6 MHz								
1673.2	-46.23	2.80	27.48	-21.55	-13	-8.55	Vertical		
1673.2	-52.73	2.80	27.48	-28.05	-13	-15.05	Horizontal		
2509.8	-51.2	2.91	27.70	-26.41	-13	-13.41	Vertical		
2509.8	-46.33	2.91	27.70	-21.54	-13	-8.54	Horizontal		
3346.4	-45.32	4.02	29.82	-19.52	-13	-6.52	Vertical		
3346.4	-48.28	4.02	29.82	-22.48	-13	-9.48	Horizontal		
110.1	-46.85	1.36	17.36	-30.85	-13	-17.85	Vertical		
148.2	-48.05	1.32	15.19	-34.19	-13	-21.19	Horizontal		
		Test Re	sults for Cha	annel 251/84	8.8 MHz				
1697.6	-47.63	2.80	27.42	-23.01	-13	-10.01	Vertical		
1697.6	-47.34	2.80	27.42	-22.72	-13	-9.72	Horizontal		
2546.4	-53.96	2.91	27.68	-29.19	-13	-16.19	Vertical		
2546.4	-44.57	2.91	27.68	-19.80	-13	-6.80	Horizontal		
3395.2	-49.4	4.02	29.80	-23.62	-13	-10.62	Vertical		
3395.2	-53.48	4.02	29.80	-27.70	-13	-14.70	Horizontal		
198.1	-53.72	1.46	17.68	-37.50	-13	-24.50	Vertical		
220.2	-48.68	1.31	15.79	-34.20	-13	-21.20	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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			EGPI	RS 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	-45.88	2.80	27.50	-21.18	-13	-8.18	Vertical
1648.4	-51.61	2.80	27.50	-26.91	-13	-13.91	Horizontal
2472.6	-45.01	2.91	27.80	-20.12	-13	-7.12	Vertical
2472.6	-52.42	2.91	27.80	-27.53	-13	-14.53	Horizontal
3296.8	-45.22	4.02	29.87	-19.37	-13	-6.37	Vertical
3296.8	-47.77	4.02	29.87	-21.92	-13	-8.92	Horizontal
116.4	-45.45	1.69	16.60	-30.54	-13	-17.54	Vertical
166.1	-49.21	1.44	17.78	-32.86	-13	-19.86	Horizontal
		Test Re	sults for Cha	annel 190/83	6.6 MHz		
1673.2	-49.09	2.80	27.48	-24.41	-13	-11.41	Vertical
1673.2	-53.53	2.80	27.48	-28.85	-13	-15.85	Horizontal
2509.8	-44.15	2.91	27.70	-19.36	-13	-6.36	Vertical
2509.8	-44.48	2.91	27.70	-19.69	-13	-6.69	Horizontal
3346.4	-53.78	4.02	29.82	-27.98	-13	-14.98	Vertical
3346.4	-53.94	4.02	29.82	-28.14	-13	-15.14	Horizontal
160.1	-52.9	1.54	16.14	-38.31	-13	-25.31	Vertical
246.5	-50.99	1.31	17.24	-35.06	-13	-22.06	Horizontal
		Test Re	sults for Cha	annel 251/84	8.8 MHz		
1697.6	-53.95	2.80	27.42	-29.33	-13	-16.33	Vertical
1697.6	-45.05	2.80	27.42	-20.43	-13	-7.43	Horizontal
2546.4	-44.27	2.91	27.68	-19.50	-13	-6.50	Vertical
2546.4	-46.79	2.91	27.68	-22.02	-13	-9.02	Horizontal
3395.2	-50.54	4.02	29.80	-24.76	-13	-11.76	Vertical
3395.2	-49.94	4.02	29.80	-24.16	-13	-11.16	Horizontal
272.1	-51.16	1.73	15.96	-36.93	-13	-23.93	Vertical
163.9	-51.79	1.35	17.53	-35.61	-13	-22.61	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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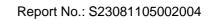


			WCDMA	Band V				
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity	
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)		
		Test Res	sults for Cha	nnel 4233/84	46.6MHz			
1693.2	-52.81	2.80	27.50	-28.11	-13	-15.11	Vertical	
1693.2	-51.11	2.80	27.50	-26.41	-13	-13.41	Horizontal	
2539.8	-46.34	2.91	27.80	-21.45	-13	-8.45	Vertical	
2539.8	-50.88	2.91	27.80	-25.99	-13	-12.99	Horizontal	
3386.4	-50.37	4.02	29.87	-24.52	-13	-11.52	Vertical	
3386.4	-45.48	4.02	29.87	-19.63	-13	-6.63	Horizontal	
264.3	-51.16	1.75	15.49	-37.42	-13	-24.42	Vertical	
209.9	-44.71	1.37	16.58	-29.50	-13	-16.50	Horizontal	
Test Results for Channel 4182/836.4MHz								
1672.8	-44.23	2.80	27.48	-19.55	-13	-6.55	Vertical	
1672.8	-47.33	2.80	27.48	-22.65	-13	-9.65	Horizontal	
2509.2	-47.46	2.91	27.70	-22.67	-13	-9.67	Vertical	
2509.2	-50.09	2.91	27.70	-25.30	-13	-12.30	Horizontal	
3345.6	-46.85	4.02	29.82	-21.05	-13	-8.05	Vertical	
3345.6	-50.07	4.02	29.82	-24.27	-13	-11.27	Horizontal	
255.8	-53.18	1.68	17.84	-37.02	-13	-24.02	Vertical	
129.8	-49.32	1.49	16.34	-34.46	-13	-21.46	Horizontal	
		Test Res	sults for Cha	nnel 4132/82	26.4MHz			
1652.8	-53.93	2.80	27.42	-29.31	-13	-16.31	Vertical	
1652.8	-51.76	2.80	27.42	-27.14	-13	-14.14	Horizontal	
2479.2	-46.74	2.91	27.68	-21.97	-13	-8.97	Vertical	
2479.2	-49.68	2.91	27.68	-24.91	-13	-11.91	Horizontal	
3305.6	-46.87	4.02	29.80	-21.09	-13	-8.09	Vertical	
3305.6	-51.54	4.02	29.80	-25.76	-13	-12.76	Horizontal	
135.6	-50.41	1.36	17.52	-34.25	-13	-21.25	Vertical	
190.6	-48.87	1.63	15.02	-35.48	-13	-22.48	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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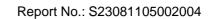


			GSM	7 1900			
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	•
		Test Re	sults for Cha	nnel 512/18	50.2MHz		
3700.4	-48.32	4.04	33.51	-18.85	-13	-5.85	Vertical
3700.4	-49.33	4.04	33.51	-19.86	-13	-6.86	Horizontal
5550.6	-50.2	5.24	35.84	-19.60	-13	-6.60	Vertical
5550.6	-49.28	5.24	35.84	-18.68	-13	-5.68	Horizontal
105.3	-45.63	1.40	15.14	-31.89	-13	-18.89	Vertical
247.6	-50.02	1.45	17.54	-33.93	-13	-20.93	Horizontal
		Test Re	sults for Cha	nnel 661/188	80.0MHz		
3760	-50.06	4.04	33.56	-20.54	-13	-7.54	Vertical
3760	-49.15	4.04	33.56	-19.63	-13	-6.63	Horizontal
5640	-48.32	5.24	35.91	-17.65	-13	-4.65	Vertical
5640	-50.25	5.24	35.91	-19.58	-13	-6.58	Horizontal
187.9	-49.5	1.74	16.40	-34.84	-13	-21.84	Vertical
86.7	-44.4	1.42	15.72	-30.09	-13	-17.09	Horizontal
		Test Re	sults for Cha	nnel 810/190	09.8MHz		
3819.6	-51.02	4.04	34.00	-21.06	-13	-8.06	Vertical
3819.6	-50.33	4.04	34.00	-20.37	-13	-7.37	Horizontal
5729.4	-53.38	5.24	36.04	-22.58	-13	-9.58	Vertical
5729.4	-53.77	5.24	36.04	-22.97	-13	-9.97	Horizontal
217.3	-52.38	1.67	17.51	-36.54	-13	-23.54	Vertical
112.7	-46.95	1.58	17.73	-30.80	-13	-17.80	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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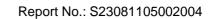


			CDD	C 4000			
	T		_	S 1900		T	ı
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	
	•	Test Re	sults for Cha	nnel 512/18	50.2MHz	•	•
3700.4	-50.01	4.04	33.51	-20.54	-13	-7.54	Vertical
3700.4	-49.36	4.04	33.51	-19.89	-13	-6.89	Horizontal
5550.6	-52.13	5.24	35.84	-21.53	-13	-8.53	Vertical
5550.6	-48.11	5.24	35.84	-17.51	-13	-4.51	Horizontal
249.9	-53.41	1.66	17.06	-38.02	-13	-25.02	Vertical
237.9	-47.8	1.34	15.54	-33.60	-13	-20.60	Horizontal
		Test Re	sults for Cha	nnel 661/188	80.0MHz		
3760	-53.48	4.04	33.56	-23.96	-13	-10.96	Vertical
3760	-51.74	4.04	33.56	-22.22	-13	-9.22	Horizontal
5640	-49.83	5.24	35.91	-19.16	-13	-6.16	Vertical
5640	-50.25	5.24	35.91	-19.58	-13	-6.58	Horizontal
168.5	-46.42	1.33	16.18	-31.57	-13	-18.57	Vertical
249.4	-51.62	1.60	17.99	-35.23	-13	-22.23	Horizontal
		Test Re	sults for Cha	nnel 810/190	09.8MHz		
3819.6	-50.56	4.04	34.00	-20.60	-13	-7.60	Vertical
3819.6	-46.43	4.04	34.00	-16.47	-13	-3.47	Horizontal
5729.4	-50.7	5.24	36.04	-19.90	-13	-6.90	Vertical
5729.4	-51.44	5.24	36.04	-20.64	-13	-7.64	Horizontal
206.6	-49.87	1.65	17.27	-34.26	-13	-21.26	Vertical
227.8	-50.81	1.39	15.49	-36.72	-13	-23.72	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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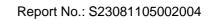


EGPRS 1900										
	- I		1			1	I			
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity			
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)				
•	•	Test Re	sults for Cha	nnel 512/18	50.2MHz	•				
3700.4	-52.15	4.04	33.51	-22.68	-13	-9.68	Vertical			
3700.4	-51.58	4.04	33.51	-22.11	-13	-9.11	Horizontal			
5550.6	-51.02	5.24	35.84	-20.42	-13	-7.42	Vertical			
5550.6	-52.33	5.24	35.84	-21.73	-13	-8.73	Horizontal			
224.9	-53.94	1.41	17.87	-37.48	-13	-24.48	Vertical			
105.4	-53.59	1.47	17.45	-37.62	-13	-24.62	Horizontal			
		Test Re	sults for Cha	nnel 661/188	80.0MHz					
3760	-51.37	4.04	33.56	-21.85	-13	-8.85	Vertical			
3760	-52.56	4.04	33.56	-23.04	-13	-10.04	Horizontal			
5640	-52.57	5.24	35.91	-21.90	-13	-8.90	Vertical			
5640	-49.85	5.24	35.91	-19.18	-13	-6.18	Horizontal			
110.0	-47.12	1.35	15.31	-33.17	-13	-20.17	Vertical			
231.5	-49.46	1.48	17.05	-33.89	-13	-20.89	Horizontal			
		Test Re	sults for Cha	nnel 810/190	09.8MHz					
3819.6	-50.88	4.04	34.00	-20.92	-13	-7.92	Vertical			
3819.6	-50.86	4.04	34.00	-20.90	-13	-7.90	Horizontal			
5729.4	-50.29	5.24	36.04	-19.49	-13	-6.49	Vertical			
5729.4	-50.58	5.24	36.04	-19.78	-13	-6.78	Horizontal			
156.0	-44.97	1.49	17.71	-28.75	-13	-15.75	Vertical			
144.9	-45.1	1.55	15.08	-31.57	-13	-18.57	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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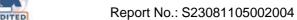


			WCDMA	A Band II				
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity	
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)		
		Test Res	ults for Char	nnel 9262/18	52.4MHz			
3704.8	-48.83	4.04	33.51	-19.36	-13	-6.36	Vertical	
3704.8	-53.56	4.04	33.51	-24.09	-13	-11.09	Horizontal	
5557.2	-52.83	5.24	35.84	-22.23	-13	-9.23	Vertical	
5557.2	-52.83	5.24	35.84	-22.23	-13	-9.23	Horizontal	
91.6	-48.63	1.66	17.47	-32.82	-13	-19.82	Vertical	
104.4	-51.11	1.38	16.18	-36.31	-13	-23.31	Horizontal	
Test Results for Channel 9400/1880MHz								
3760	-48.43	4.04	33.56	-18.91	-13	-5.91	Vertical	
3760	-53.88	4.04	33.56	-24.36	-13	-11.36	Horizontal	
5640	-52.36	5.24	35.91	-21.69	-13	-8.69	Vertical	
5640	-53.43	5.24	35.91	-22.76	-13	-9.76	Horizontal	
121.2	-48.1	1.38	16.34	-33.14	-13	-20.14	Vertical	
167.8	-47.16	1.34	16.03	-32.47	-13	-19.47	Horizontal	
		Test Res	ults for Char	nnel 9538/19	07.6MHz			
3815.2	-50	4.04	34.00	-20.04	-13	-7.04	Vertical	
3815.2	-50.71	4.04	34.00	-20.75	-13	-7.75	Horizontal	
5722.8	-52.93	5.24	36.04	-22.13	-13	-9.13	Vertical	
5722.8	-52.62	5.24	36.04	-21.82	-13	-8.82	Horizontal	
135.9	-53.31	1.51	15.52	-39.30	-13	-26.30	Vertical	
247.5	-51.94	1.32	17.18	-36.09	-13	-23.09	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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			WCDMA	Band IV					
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)			
	Test Results for Channel 1312/1712.4MHz								
3424.8	-53.1	4.02	29.80	-27.32	-13	-14.32	Vertical		
3424.8	-48.22	4.02	29.80	-22.44	-13	-9.44	Horizontal		
5137.2	-53.33	5.24	35.84	-22.73	-13	-9.73	Vertical		
5137.2	-47.86	5.24	35.84	-17.26	-13	-4.26	Horizontal		
81.8	-47.88	1.66	15.00	-34.54	-13	-21.54	Vertical		
115.1	-49.97	1.58	16.20	-35.35	-13	-22.35	Horizontal		
	Test Results for Channel 1412/1732.4MHz								
3464.8	-51.42	4.03	30.00	-25.45	-13	-12.45	Vertical		
3464.8	-46.94	4.03	30.00	-20.97	-13	-7.97	Horizontal		
5197.2	-52.85	5.25	35.86	-22.24	-13	-9.24	Vertical		
5197.2	-53.73	5.25	35.86	-23.12	-13	-10.12	Horizontal		
246.8	-52.85	1.55	16.39	-38.00	-13	-25.00	Vertical		
101.0	-46.95	1.32	16.25	-32.02	-13	-19.02	Horizontal		
		Test Res	ults for Char	nnel 1513/17	′52.6MHz				
3505.2	-50.63	2.91	27.68	-25.86	-13	-12.86	Vertical		
3505.2	-45.24	2.91	27.68	-20.47	-13	-7.47	Horizontal		
5257.8	-50.15	5.26	35.86	-19.55	-13	-6.55	Vertical		
5257.8	-51.65	5.26	35.86	-21.05	-13	-8.05	Horizontal		
199.0	-46.22	1.33	15.78	-31.77	-13	-18.77	Vertical		
193.1	-50.56	1.47	17.42	-34.61	-13	-21.61	Horizontal		

- 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	Log-Periodic Antenna	SCHWARZBE CK	VULB 9162	584	30MHz~2GHz	Receiving Antenna
2	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9120 D	2816	1GHz~18GHz	Receiving Antenna
3	Log-Periodic Antenna	SCHWARZBE CK	VULB 9162	586	30MHz~2GHz	Substitution antenna
4	Broadband Horn Antenna	SCHWARZBE CK	BBHA 9120 D	2817	1GHz~18GHz	Substitution antenna

Use the following spectrum analyzer settings:

Ose the following spectrum analyzer settings.							
	GSM/GPRS/EGPRS	UMTS band					
Span	500KHz	10MHz					
RBW	10KHz	300KHz					
VBW	30KHz	1MHz					
Detector	RMS	RMS					
Trace	Average	Average					
Average Type	Power	Power					
Sweep Count	100	100					

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7.2.6 Test Results

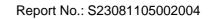
EUT:	Mobile Phone	Model No.:	SOSPIRO-AX61
Temperature:	120 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/UMTS band IV	Test By:	Allen Liu

■ 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	13.94	2.11	23.84	2.15	33.52	2.249055				
836.4	Н	14.55	2.13	23.15	2.15	33.42	2.197860				
848.8	Н	14.22	2.13	23.06	2.15	33.00	1.995262				
824.2	V	13.91	2.11	23.11	2.15	32.76	1.887991				
836.4	V	14.52	2.13	23.07	2.15	33.31	2.142891				
848.8	V	13.88	2.13	23.25	2.15	32.85	1.927525				

	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	13.66	2.11	23.84	2.15	33.24	2.108628			
836.4	Н	14.75	2.13	23.15	2.15	33.62	2.301442			
848.8	Н	14.11	2.13	23.06	2.15	32.89	1.945360			
824.2	V	13.98	2.11	23.11	2.15	32.83	1.918669			
836.4	V	14.10	2.13	23.07	2.15	32.89	1.945360			
848.8	V	14.32	2.13	23.25	2.15	33.29	2.133045			

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Radiated Power (ERP) for EGPRS850									
Frequency	Frequency Polarization	SG Level	Pcl	Antenna Factor	Correction	ERP	ERP		
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)		
824.2	Н	9.88	2.11	23.84	2.15	29.46	0.883080		
836.6	Н	10.86	2.13	23.15	2.15	29.73	0.939723		
848.8	Н	9.19	2.13	23.06	2.15	27.97	0.626614		
824.2	V	9.11	2.11	23.11	2.15	27.96	0.625173		
836.6	V	9.68	2.13	23.07	2.15	28.47	0.703072		
848.8	V	9.98	2.13	23.25	2.15	28.95	0.785236		

Radiated Power (ERP) for UMTS band V									
Frequency	Polarization	SG Level	Pcl	Antenna Factor	Correction	ERP	ERP		
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)		
826.4	Н	5.34	2.11	23.84	2.15	24.92	0.310456		
835	Н	5.96	2.13	23.15	2.15	24.83	0.304089		
846.6	Н	5.78	2.13	23.06	2.15	24.56	0.285759		
826.4	V	6.39	2.11	23.11	2.15	25.24	0.334195		
835	V	5.51	2.13	23.07	2.15	24.30	0.269153		
846.6	V	4.99	2.13	23.25	2.15	23.96	0.248886		

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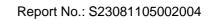


Radiated Power (E.I.R.P) for GSM1900								
Frequency	Polarization	SG Level	Pcl	Antenna Factor	EIRP	EIRP		
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)		
1850.2	Н	7.86	3.76	28.24	32.34	1.713957		
1880	Н	7.58	3.91	28.22	31.89	1.545254		
1909.8	Н	8.44	3.93	28.20	32.71	1.866380		
1850.2	V	8.97	3.76	27.32	32.53	1.790606		
1880	V	8.63	3.91	27.33	32.05	1.603245		
1909.8	V	9.15	3.93	27.31	32.53	1.790606		

	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	8.17	3.76	28.24	32.65	1.840772			
1880	Н	7.83	3.91	28.22	32.14	1.636817			
1909.8	Н	7.78	3.93	28.20	32.05	1.603245			
1850.2	V	8.53	3.76	27.32	32.09	1.618080			
1880	V	9.04	3.91	27.33	32.46	1.761976			
1909.8	V	9.37	3.93	27.31	32.75	1.883649			

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	3.71	3.76	28.24	28.19	0.659174		
1880	Н	3.70	3.91	28.22	28.01	0.632412		
1909.8	Н	3.60	3.93	28.20	27.87	0.612350		
1850.2	V	5.00	3.76	27.32	28.56	0.717794		
1880	V	5.27	3.91	27.33	28.69	0.739605		
1909.8	٧	5.28	3.93	27.31	28.66	0.734514		

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Radiated Power (E.I.R.P) for UMTS band II								
Frequency	Polarization	SG Level	Pcl	Antenna Factor	EIRP	EIRP		
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)		
1852.4	Н	0.38	3.76	28.24	24.86	0.306196		
1880	Н	2.54	3.91	28.22	26.85	0.484172		
1907.6	Н	2.08	3.93	28.20	26.35	0.431519		
1852.4	V	1.87	3.76	27.32	25.43	0.349140		
1880	V	3.16	3.91	27.33	26.58	0.454988		
1907.6	V	2.23	3.93	27.31	25.61	0.363915		

	Radiated Power (E.I.R.P) for UMTS band IV					
Frequency		SG	Pcl	Antenna	EIRP	EIRP
	Polarization	Level		Factor		
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)
1712.4	Н	0.06	3.13	27.63	24.56	0.285759
1732.6	Н	0.26	3.27	27.61	24.60	0.288403
1752.6	Н	0.36	3.30	27.60	24.66	0.292415
1712.4	V	-0.03	3.13	27.63	24.47	0.279898
1732.6	V	-0.05	3.27	27.61	24.29	0.268534
1752.6	V	0.16	3.30	27.60	24.46	0.279254

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:	Mobile Phone	Model No.:	SOSPIRO-AX61
Temperature:	120 T	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	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.
- 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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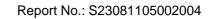




7.4.6 Test Results

EUT:	Mobile Phone	Model No.:	SOSPIRO-AX61
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Allen Liu
Results: PASS			•

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Frequ	Frequency Error Against Voltage for GSM 850 band(Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)		
3.4	8.29	0.009912		
3.87	9.36	0.011191		
4.4	7.25	0.008668		

Frequency Error Against Temperature for GSM 850 band(Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	6.39	0.007640	
-20	7.61	0.009099	
-10	6.84	0.008178	
0	6.22	0.007437	
10	9.54	0.011406	
20	7.86	0.009397	
30	7.84	0.009374	
40	6.45	0.007712	
50	11.98	0.014323	

Frequency Error Against Voltage for GPRS850 band(Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	8.43	0.010079	
3.87	6.54	0.007819	
4.4	8.53	0.010198	

Frequency Error Against Temperature for GPRS850 band(Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	5.68	0.006791	
-20	9.13	0.010916	
-10	8	0.009565	
0	6.51	0.007783	
10	6.59	0.007879	
20	7.67	0.009170	
30	6.18	0.007389	
40	9.49	0.011346	
50	10.82	0.012936	

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Frequency Error Against Voltage for EGPRS850 band(Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	7.37	0.008812	
3.87	9.6	0.011478	
4.4	6.92	0.008274	

Frequency Error Against Temperature for EGPRS850 band(Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	5.82	0.006958	
-20	8.97	0.010725	
-10	7.85	0.009385	
0	6.84	0.008178	
10	8.58	0.010258	
20	9.21	0.011011	
30	9.14	0.010928	
40	9.87	0.011801	
50	9.07	0.010844	

Note:

- 1. Normal Voltage = 3.87V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.4V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

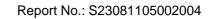
Frequency Error Against Voltage for UMTS band V(Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	-17.92	-0.021425	
3.87	-16.58	-0.019823	
4.4	-18.95	-0.022657	

Frequency Error Against Temperature for UMTS band V (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-19.74	-0.023601	
-20	-19.78	-0.023649	
-10	-16.48	-0.019703	
0	-15.55	-0.018592	
10	-16.03	-0.019165	
20	-18.31	-0.021891	
30	-18.94	-0.022645	
40	-17.16	-0.020516	
50	-19.48	-0.023290	

Note:

- 1. Normal Voltage = 3.87V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.4V
- 2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

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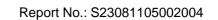
_				
Frequ	Frequency Error Against Voltage for PCS 1900 band (Mid CH)			
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)		
3.4	16.73	0.008899		
3.87	19.45	0.010346		
4.4	16.53	0.008793		

Frequency Error Against Temperature for PCS 1900 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	19.85	0.010559	
-20	17.61	0.009367	
-10	20.35	0.010824	
0	16.96	0.009021	
10	16.68	0.008872	
20	20.78	0.011053	
30	16.48	0.008766	
40	18.41	0.009793	
50	23.53	0.012516	

Frequency Error Against Voltage for GPRS1900 band (Mid CH)				
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)				
3.4 17.92 0.009532				
3.87	3.87 19.47 0.010356			
4.4 17.79 0.009463				

Frequency Error Against Temperature for GPRS1900 band (Mid CH)				
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)		
-30	21.23	0.011293		
-20	20.86	0.011096		
-10	17.83	0.009484		
0	18.53	0.009856		
10	20.74	0.011032		
20	17.82	0.009479		
30	20.26	0.010777		
40	16.48	0.008766		
50	21.92	0.011660		

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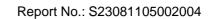
Frequency Error Against Voltage for EGPRS1900 band (Mid CH)			
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4 18.52 0.009851		0.009851	
3.87	16.69	0.008878	
4.4 17.05 0.009069			

Frequency Error Against Temperature for EGPRS1900 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	19.61	0.010431	
-20	18.89	0.010048	
-10	17.65	0.009388	
0	19.97	0.010622	
10	18.38	0.009777	
20	16.15	0.008590	
30	20.04	0.010660	
40	16.25	0.008644	
50	24.46	0.013011	

Note:

- 1. Normal Voltage = 3.87V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.4V
- 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 UMTS band II (Mid CH)				
Voltage (V)	ge (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4 -16.41 -0.008729		-0.008729		
3.87	-17.24 -0.009170			
4.4 -16.51 -0.008782				

Frequency Error Against Temperature for UMTS band II (Mid CH)				
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)		
-30	-19.94	-0.010606		
-20	-18.53	-0.009856		
-10	-17.17	-0.009133		
0	-18.01	-0.009580		
10	-16.31	-0.008676		
20	-18.12	-0.009638		
30	-16.88	-0.008979		
40	-19.68	-0.010468		
50	-18.2	-0.009681		

Frequency Error Against Voltage for UMTS band IV(Mid CH)			
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4 -14.21 -0.008202			
3.87	-14.58	-0.008416	
4.4 -16.29 -0.009403		-0.009403	

Frequency Error Against Temperature for UMTS band IV (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-7.43	-0.004289	
-20	-13.61	-0.007856	
-10	-12.75	-0.007360	
0	-9.48	-0.005472	
10	-11.17	-0.006448	
20	-15.66	-0.009039	
30	-18.03	-0.010408	
40	-20.99	-0.012116	
50	-21.21	-0.012243	

Note:

- 1.
- Normal Voltage = 3.87V; Battery End Point (BEP) = 3.4V; Maximum Voltage =4.4V 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:	Mobile Phone	Model No.:	SOSPIRO-AX61
Temperature:	20 ℃	Relative Humidity:	48%
	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Allen Liu
Results: PASS	•		

The Test data reference attachment:

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7.6 26DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH

7.6.1 Applicable Standard

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

7.6.2 Conformance Limit

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:	Mobile Phone	Model No.:	SOSPIRO-AX61
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	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:	Mobile Phone	Model No.:	SOSPIRO-AX61
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	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:	Mobile Phone	Model No.:	SOSPIRO-AX61
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/ UMTS band IV	Test By:	Allen Liu
Results: PASS			

The Test data reference attachment:

END OF REPORT

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