



FCC RADIO TEST REPORT FCC ID: 2AZYA-AX64

Product: Mobile Phone

Trade Mark: ACER

Model No.: SOSPIRO-AX64

Family Model: SOSPIRO-AX64-B, SOSPIRO-AX64-N

Report No.: S23071202212004

Issue Date: Aug 03, 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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Version.1.2 Page 1 of 44





TABLE OF CONTENTS

1	TES	ST RESULT CERTIFICATION	3
2	SUN	MMARY OF TEST RESULTS	4
3	FAC	CILITIES AND ACCREDITATIONS	5
	3.1 3.2	FACILITIESLABORATORY ACCREDITATIONS AND LISTINGS	5
	3.3	MEASUREMENT UNCERTAINTY	
4		NERAL DESCRIPTION OF EUT	
5		SCRIPTION OF TEST MODES	
6	SET	TUP OF EQUIPMENT UNDER TEST	9
	6.1 6.2 6.3	BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM. SUPPORT EQUIPMENT. EQUIPMENTS LIST FOR ALL TEST ITEMS.	10 11
7	TES	ST REQUIREMENTS	
,	7.1 7.2 7.3	FIELD STRENGTH OF SPURIOUS RADIATIONEFFECTIVE RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER	23
,	7.4 7.5	FREQUENCY STABILITYPEAK-TO-AVERAGE RATIO	31
,	7.6 7.7 7.8	26DB BANDWIDTH AND 99% OCCUPIED BANDWIDTH	42





I 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-AX64
Family Model:	SOSPIRO-AX64-B, SOSPIRO-AX64-N
Sample number	S230712022012

Measurement Procedure Used:

Moderation of the Trocodate Cood.					
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	:	Jul 14, 2023 ~ Aug 03, 2023	
Testing Engineer	:	Hen lin	
		(Allen Liu)	
Authorized Signatory	:	Alles	
	<u>-</u>	(Alex Li)	

Version.1.2 Page 3 of 44





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.

Page 4 of 44 Version.1.2



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

CNAS-Lab. : The Certificate Registration Number is L5516. IC-Registration The Certificate Registration Number is 9270A-1. **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

Version.1.2 Page 5 of 44



GENERAL DESCRIPTION OF EUT

	Product Feature and Specification
Equipment	Mobile Phone
Trade Mark	ACER
FCC ID	2AZYA-AX64
Model No.	SOSPIRO-AX64
Family Model	SOSPIRO-AX64-B, SOSPIRO-AX64-N
Model Difference	All models are the same circuit and RF module, except the model name and colour.
Operating Frequency	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Modulation	☐GMSK for GSM/GPRS; ☐8PSK for EGPRS; ☐QPSK for UMTS bands;
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 B4:-0.66 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_AX64_Ver01
Note: Board on the application	n features or specification exhibited in User's Manual, the FLIT is considered as an ITE/Computing Device, More

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.

Page 6 of 44 Version.1.2





Revision History

Report No.	Version	Description	Issued Date
S23071202212004	Rev.01	Initial issue of report	Aug 03, 2023

Version.1.2 Page 7 of 44





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, HSDPA band V, HSUPA band V, HSDPA band

IV, HSUPA band IV frequency band.

Note: GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, HSDPA band II, HSUPA band II, HSDPA band V, HSUPA band V, HSDPA band IV, HSUPA 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:

1001110901	reet i requeriey and enarmore.							
Frequency	☐ GSM 850		⊠GSM 1900		☑ UMTS Band II		⊠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	

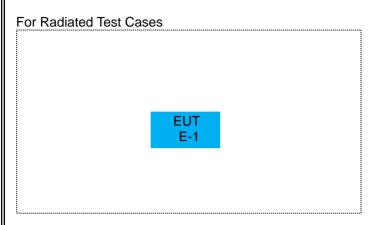
Version.1.2 Page 8 of 44

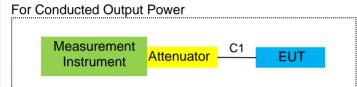


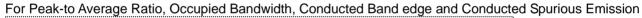


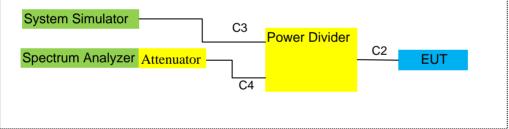
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

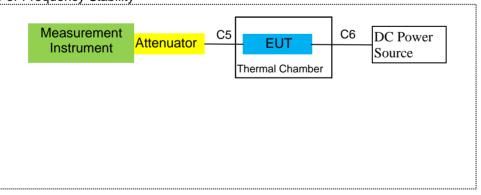








For Frequency Stability



Version.1.2 Page 9 of 44





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
E-1	Mobile Phone	ACER	SOSPIRO-AX64	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".

Version.1.2 Page 10 of 44





6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration 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	Horn Antenna	EM	EM-AH-1018 0	2011071402	2023.03.27	2024.03.26	3 year
6	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2023.05.29	2024.05.28	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	2023.05.06	2026.05.05	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.

Version.1.2 Page 11 of 44





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.

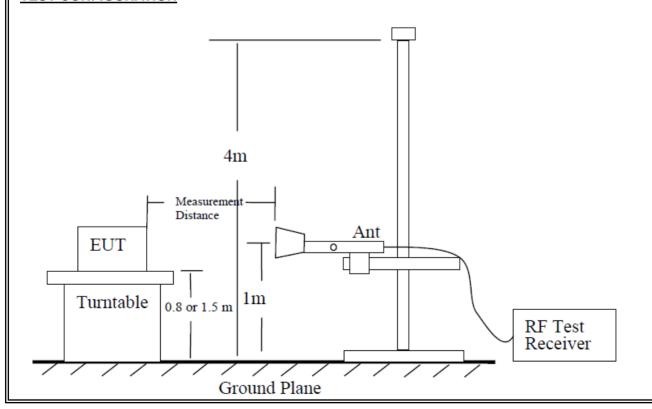
7.1.3 Measuring Instruments

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.

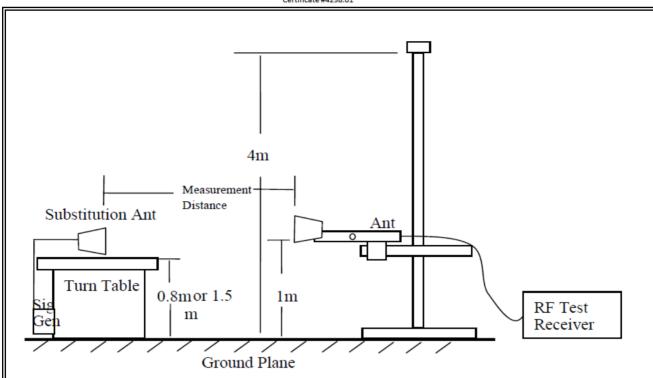
TEST CONFIGURATION



Version.1.2 Page 12 of 44







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.

Version.1.2 Page 13 of 44





7.1.6 Test Results

EUT:	Mobile Phone	Model No.:	SOSPIRO-AX64
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> 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	-47.42	2.80	27.50	-22.72	-13	-9.72	Vertical				
1648.4	-50.65	2.80	27.50	-25.95	-13	-12.95	Horizontal				
2472.6	-44.43	2.91	27.80	-19.54	-13	-6.54	Vertical				
2472.6	-45.39	2.91	27.80	-20.50	-13	-7.50	Horizontal				
3296.8	-53.61	4.02	29.87	-27.76	-13	-14.76	Vertical				
3296.8	-48.79	4.02	29.87	-22.94	-13	-9.94	Horizontal				
131.2	-48.26	1.35	17.77	-31.84	-13	-18.84	Vertical				
116.8	-51.15	1.77	17.83	-35.09	-13	-22.09	Horizontal				
Test Results for Channel 190/836.6 MHz											
1673.2	-53.23	2.80	27.48	-28.55	-13	-15.55	Vertical				
1673.2	-50.11	2.80	27.48	-25.43	-13	-12.43	Horizontal				
2509.8	-50.91	2.91	27.70	-26.12	-13	-13.12	Vertical				
2509.8	-51.62	2.91	27.70	-26.83	-13	-13.83	Horizontal				
3346.4	-50.01	4.02	29.82	-24.21	-13	-11.21	Vertical				
3346.4	-45.72	4.02	29.82	-19.92	-13	-6.92	Horizontal				
208.8	-51.3	1.44	15.26	-37.49	-13	-24.49	Vertical				
131.6	-45.71	1.51	17.23	-29.99	-13	-16.99	Horizontal				
		Test Re	sults for Cha	annel 251/84	8.8 MHz						
1697.6	-44.12	2.80	27.42	-19.50	-13	-6.50	Vertical				
1697.6	-49.36	2.80	27.42	-24.74	-13	-11.74	Horizontal				
2546.4	-48.39	2.91	27.68	-23.62	-13	-10.62	Vertical				
2546.4	-52.61	2.91	27.68	-27.84	-13	-14.84	Horizontal				
3395.2	-50.06	4.02	29.80	-24.28	-13	-11.28	Vertical				
3395.2	-48.02	4.02	29.80	-22.24	-13	-9.24	Horizontal				
95.0	-53.82	1.74	16.46	-39.10	-13	-26.10	Vertical				
208.3	-44.85	1.68	16.21	-30.32	-13	-17.32	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)

Version.1.2 Page 14 of 44





			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	-53.66	2.80	27.50	-28.96	-13	-15.96	Vertical	
1648.4	-46.16	2.80	27.50	-21.46	-13	-8.46	Horizontal	
2472.6	-53.35	2.91	27.80	-28.46	-13	-15.46	Vertical	
2472.6	-44.88	2.91	27.80	-19.99	-13	-6.99	Horizontal	
3296.8	-45.71	4.02	29.87	-19.86	-13	-6.86	Vertical	
3296.8	-49.7	4.02	29.87	-23.85	-13	-10.85	Horizontal	
154.8	-44.33	1.35	16.91	-28.77	-13	-15.77	Vertical	
238.4	-47.77	1.59	17.39	-31.96	-13	-18.96	Horizontal	
Test Results for Channel 190/836.6 MHz								
1673.2	-51.84	2.80	27.48	-27.16	-13	-14.16	Vertical	
1673.2	-47.5	2.80	27.48	-22.82	-13	-9.82	Horizontal	
2509.8	-45.47	2.91	27.70	-20.68	-13	-7.68	Vertical	
2509.8	-49.65	2.91	27.70	-24.86	-13	-11.86	Horizontal	
3346.4	-49	4.02	29.82	-23.20	-13	-10.20	Vertical	
3346.4	-50.9	4.02	29.82	-25.10	-13	-12.10	Horizontal	
110.1	-50.63	1.36	17.36	-34.63	-13	-21.63	Vertical	
148.2	-51.34	1.32	15.19	-37.48	-13	-24.48	Horizontal	
		Test Re	sults for Cha	annel 251/84	8.8 MHz			
1697.6	-51.24	2.80	27.42	-26.62	-13	-13.62	Vertical	
1697.6	-45.39	2.80	27.42	-20.77	-13	-7.77	Horizontal	
2546.4	-52.39	2.91	27.68	-27.62	-13	-14.62	Vertical	
2546.4	-50.74	2.91	27.68	-25.97	-13	-12.97	Horizontal	
3395.2	-45.56	4.02	29.80	-19.78	-13	-6.78	Vertical	
3395.2	-50.5	4.02	29.80	-24.72	-13	-11.72	Horizontal	
198.1	-51.02	1.46	17.68	-34.80	-13	-21.80	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)

Version.1.2 Page 15 of 44





			EGPF	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	-52.88	2.80	27.50	-28.18	-13	-15.18	Vertical	
1648.4	-47.24	2.80	27.50	-22.54	-13	-9.54	Horizontal	
2472.6	-45.19	2.91	27.80	-20.30	-13	-7.30	Vertical	
2472.6	-52.6	2.91	27.80	-27.71	-13	-14.71	Horizontal	
3296.8	-48.17	4.02	29.87	-22.32	-13	-9.32	Vertical	
3296.8	-44.45	4.02	29.87	-18.60	-13	-5.60	Horizontal	
116.4	-47.94	1.69	16.60	-33.03	-13	-20.03	Vertical	
166.1	-49.45	1.44	17.78	-33.10	-13	-20.10	Horizontal	
Test Results for Channel 190/836.6 MHz								
1673.2	-47.4	2.80	27.48	-22.72	-13	-9.72	Vertical	
1673.2	-46.89	2.80	27.48	-22.21	-13	-9.21	Horizontal	
2509.8	-50.48	2.91	27.70	-25.69	-13	-12.69	Vertical	
2509.8	-49.99	2.91	27.70	-25.20	-13	-12.20	Horizontal	
3346.4	-52.61	4.02	29.82	-26.81	-13	-13.81	Vertical	
3346.4	-44.66	4.02	29.82	-18.86	-13	-5.86	Horizontal	
160.1	-44.81	1.54	16.14	-30.22	-13	-17.22	Vertical	
246.5	-46.18	1.31	17.24	-30.25	-13	-17.25	Horizontal	
		Test Re	sults for Cha	annel 251/84	8.8 MHz			
1697.6	-47.21	2.80	27.42	-22.59	-13	-9.59	Vertical	
1697.6	-53.65	2.80	27.42	-29.03	-13	-16.03	Horizontal	
2546.4	-48.89	2.91	27.68	-24.12	-13	-11.12	Vertical	
2546.4	-48.79	2.91	27.68	-24.02	-13	-11.02	Horizontal	
3395.2	-46.79	4.02	29.80	-21.01	-13	-8.01	Vertical	
3395.2	-45.19	4.02	29.80	-19.41	-13	-6.41	Horizontal	
272.1	-52.75	1.73	15.96	-38.52	-13	-25.52	Vertical	
163.9	-53.17	1.35	17.53	-36.99	-13	-23.99	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)

Version.1.2 Page 16 of 44



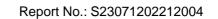


			WCDMA	Band V				
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity	
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	Í	
		Test Res	sults for Cha	nnel 4233/84	46.6MHz			
1693.2	-48.13	2.80	27.50	-23.43	-13	-10.43	Vertical	
1693.2	-51.83	2.80	27.50	-27.13	-13	-14.13	Horizontal	
2539.8	-45.74	2.91	27.80	-20.85	-13	-7.85	Vertical	
2539.8	-49.06	2.91	27.80	-24.17	-13	-11.17	Horizontal	
3386.4	-53.65	4.02	29.87	-27.80	-13	-14.80	Vertical	
3386.4	-45.94	4.02	29.87	-20.09	-13	-7.09	Horizontal	
264.3	-49.57	1.75	15.49	-35.83	-13	-22.83	Vertical	
209.9	-47.91	1.37	16.58	-32.70	-13	-19.70	Horizontal	
Test Results for Channel 4182/836.4MHz								
1672.8	-47.96	2.80	27.48	-23.28	-13	-10.28	Vertical	
1672.8	-47.07	2.80	27.48	-22.39	-13	-9.39	Horizontal	
2509.2	-48.26	2.91	27.70	-23.47	-13	-10.47	Vertical	
2509.2	-48.08	2.91	27.70	-23.29	-13	-10.29	Horizontal	
3345.6	-51.87	4.02	29.82	-26.07	-13	-13.07	Vertical	
3345.6	-45.92	4.02	29.82	-20.12	-13	-7.12	Horizontal	
255.8	-45.26	1.68	17.84	-29.10	-13	-16.10	Vertical	
129.8	-46.55	1.49	16.34	-31.69	-13	-18.69	Horizontal	
		Test Res	sults for Cha	nnel 4132/82	26.4MHz			
1652.8	-51.36	2.80	27.42	-26.74	-13	-13.74	Vertical	
1652.8	-51.06	2.80	27.42	-26.44	-13	-13.44	Horizontal	
2479.2	-49.63	2.91	27.68	-24.86	-13	-11.86	Vertical	
2479.2	-44.37	2.91	27.68	-19.60	-13	-6.60	Horizontal	
3305.6	-52.09	4.02	29.80	-26.31	-13	-13.31	Vertical	
3305.6	-51.24	4.02	29.80	-25.46	-13	-12.46	Horizontal	
135.6	-51.26	1.36	17.52	-35.10	-13	-22.10	Vertical	
190.6	-45.37	1.63	15.02	-31.98	-13	-18.98	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)

Version.1.2 Page 17 of 44







			GSM	<i>1</i> 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	-52.02	4.04	33.51	-22.55	-13	-9.55	Vertical
3700.4	-49.39	4.04	33.51	-19.92	-13	-6.92	Horizontal
5550.6	-49.14	5.24	35.84	-18.54	-13	-5.54	Vertical
5550.6	-50.8	5.24	35.84	-20.20	-13	-7.20	Horizontal
105.3	-46.07	1.40	15.14	-32.33	-13	-19.33	Vertical
247.6	-51.63	1.45	17.54	-35.54	-13	-22.54	Horizontal
		Test Res	sults for Cha	nnel 661/188	80.0MHz		
3760	-47.7	4.04	33.56	-18.18	-13	-5.18	Vertical
3760	-52.11	4.04	33.56	-22.59	-13	-9.59	Horizontal
5640	-51.28	5.24	35.91	-20.61	-13	-7.61	Vertical
5640	-54.11	5.24	35.91	-23.44	-13	-10.44	Horizontal
187.9	-44.83	1.74	16.40	-30.17	-13	-17.17	Vertical
86.7	-50.01	1.42	15.72	-35.70	-13	-22.70	Horizontal
		Test Res	sults for Cha	nnel 810/190	09.8MHz		
3819.6	-50.2	4.04	34.00	-20.24	-13	-7.24	Vertical
3819.6	-52.69	4.04	34.00	-22.73	-13	-9.73	Horizontal
5729.4	-51.3	5.24	36.04	-20.50	-13	-7.50	Vertical
5729.4	-53.63	5.24	36.04	-22.83	-13	-9.83	Horizontal
217.3	-53.93	1.67	17.51	-38.09	-13	-25.09	Vertical
112.7	-50.68	1.58	17.73	-34.53	-13	-21.53	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)

Version.1.2 Page 18 of 44







			GPR	S 1900					
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity		
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	Í		
		Test Re	sults for Cha	nnel 512/18	50.2MHz				
3700.4	-48.92	4.04	33.51	-19.45	-13	-6.45	Vertical		
3700.4	-53.02	4.04	33.51	-23.55	-13	-10.55	Horizontal		
5550.6	-51.65	5.24	35.84	-21.05	-13	-8.05	Vertical		
5550.6	-49.54	5.24	35.84	-18.94	-13	-5.94	Horizontal		
249.9	-44.42	1.66	17.06	-29.03	-13	-16.03	Vertical		
237.9	-45.07	1.34	15.54	-30.87	-13	-17.87	Horizontal		
	Test Results for Channel 661/1880.0MHz								
3760	-52.4	4.04	33.56	-22.88	-13	-9.88	Vertical		
3760	-49.22	4.04	33.56	-19.70	-13	-6.70	Horizontal		
5640	-53.31	5.24	35.91	-22.64	-13	-9.64	Vertical		
5640	-51.71	5.24	35.91	-21.04	-13	-8.04	Horizontal		
168.5	-45.46	1.33	16.18	-30.61	-13	-17.61	Vertical		
249.4	-52.88	1.60	17.99	-36.49	-13	-23.49	Horizontal		
		Test Re	sults for Cha	nnel 810/190	09.8MHz				
3819.6	-49.47	4.04	34.00	-19.51	-13	-6.51	Vertical		
3819.6	-50.3	4.04	34.00	-20.34	-13	-7.34	Horizontal		
5729.4	-52.08	5.24	36.04	-21.28	-13	-8.28	Vertical		
5729.4	-50.47	5.24	36.04	-19.67	-13	-6.67	Horizontal		
206.6	-53.35	1.65	17.27	-37.74	-13	-24.74	Vertical		
227.8	-49.11	1.39	15.49	-35.02	-13	-22.02	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)

Version.1.2 Page 19 of 44





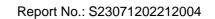


			FGPR	?S 1900							
Frequency	SG Level	Cable Loss	Antenna Factor	Absolute Level	Limit	Over Limit	Polarity				
(MHz)	(dBm)	(dB)	(dB)	(dBm)	(dBm)	(dBm)	Í				
	Test Results for Channel 512/1850.2MHz										
3700.4	-49.05	4.04	33.51	-19.58	-13	-6.58	Vertical				
3700.4	-51.25	4.04	33.51	-21.78	-13	-8.78	Horizontal				
5550.6	-53.01	5.24	35.84	-22.41	-13	-9.41	Vertical				
5550.6	-52.52	5.24	35.84	-21.92	-13	-8.92	Horizontal				
224.9	-52.47	1.41	17.87	-36.01	-13	-23.01	Vertical				
105.4	-45.8	1.47	17.45	-29.83	-13	-16.83	Horizontal				
		Test Res	sults for Cha	innel 661/18	80.0MHz						
3760	-47.76	4.04	33.56	-18.24	-13	-5.24	Vertical				
3760	-47.63	4.04	33.56	-18.11	-13	-5.11	Horizontal				
5640	-50.27	5.24	35.91	-19.60	-13	-6.60	Vertical				
5640	-50.36	5.24	35.91	-19.69	-13	-6.69	Horizontal				
110.0	-52.33	1.35	15.31	-38.38	-13	-25.38	Vertical				
231.5	-49.37	1.48	17.05	-33.80	-13	-20.80	Horizontal				
		Test Res	sults for Cha	innel 810/19	09.8MHz						
3819.6	-53.02	4.04	34.00	-23.06	-13	-10.06	Vertical				
3819.6	-54.74	4.04	34.00	-24.78	-13	-11.78	Horizontal				
5729.4	-53.36	5.24	36.04	-22.56	-13	-9.56	Vertical				
5729.4	-50.55	5.24	36.04	-19.75	-13	-6.75	Horizontal				
156.0	-53.52	1.49	17.71	-37.30	-13	-24.30	Vertical				
144.9	-47.71	1.55	15.08	-34.18	-13	-21.18	Horizonta				

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)

Version.1.2 Page 20 of 44







			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	-51.08	4.04	33.51	-21.61	-13	-8.61	Vertical			
3704.8	-52.23	4.04	33.51	-22.76	-13	-9.76	Horizontal			
5557.2	-49.53	5.24	35.84	-18.93	-13	-5.93	Vertical			
5557.2	-52.14	5.24	35.84	-21.54	-13	-8.54	Horizontal			
91.6	-45.54	1.66	17.47	-29.73	-13	-16.73	Vertical			
104.4	-47.28	1.38	16.18	-32.48	-13	-19.48	Horizontal			
	Test Results for Channel 9400/1880MHz									
3760	-51.63	4.04	33.56	-22.11	-13	-9.11	Vertical			
3760	-50.36	4.04	33.56	-20.84	-13	-7.84	Horizontal			
5640	-50.61	5.24	35.91	-19.94	-13	-6.94	Vertical			
5640	-53.66	5.24	35.91	-22.99	-13	-9.99	Horizontal			
121.2	-45.1	1.38	16.34	-30.14	-13	-17.14	Vertical			
167.8	-47.37	1.34	16.03	-32.68	-13	-19.68	Horizontal			
		Test Res	ults for Char	nnel 9538/19	07.6MHz					
3815.2	-52.55	4.04	34.00	-22.59	-13	-9.59	Vertical			
3815.2	-51.46	4.04	34.00	-21.50	-13	-8.50	Horizontal			
5722.8	-54.71	5.24	36.04	-23.91	-13	-10.91	Vertical			
5722.8	-50.5	5.24	36.04	-19.70	-13	-6.70	Horizontal			
135.9	-46.84	1.51	15.52	-32.83	-13	-19.83	Vertical			
247.5	-46.59	1.32	17.18	-30.74	-13	-17.74	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)

Version.1.2 Page 21 of 44





			WCDMA	Band IV			
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 1312/17	12.4MHz	•	
3424.8	-48.97	4.02	29.80	-23.19	-13	-10.19	Vertical
3424.8	-44.59	4.02	29.80	-18.81	-13	-5.81	Horizontal
5137.2	-51.36	5.24	35.84	-20.76	-13	-7.76	Vertical
5137.2	-52.02	5.24	35.84	-21.42	-13	-8.42	Horizontal
81.8	-47	1.66	15.00	-33.66	-13	-20.66	Vertical
115.1	-45.44	1.58	16.20	-30.82	-13	-17.82	Horizontal
		Test Res	ults for Cha	nnel 1412/17	'32.4MHz		
3464.8	-51.22	4.03	30.00	-25.25	-13	-12.25	Vertical
3464.8	-45.59	4.03	30.00	-19.62	-13	-6.62	Horizontal
5197.2	-52.83	5.25	35.86	-22.22	-13	-9.22	Vertical
5197.2	-53.34	5.25	35.86	-22.73	-13	-9.73	Horizontal
246.8	-44.08	1.55	16.39	-29.23	-13	-16.23	Vertical
101.0	-49.39	1.32	16.25	-34.46	-13	-21.46	Horizontal
		Test Res	ults for Cha	nnel 1513/17	′52.6MHz		
3505.2	-49.7	2.91	27.68	-24.93	-13	-11.93	Vertical
3505.2	-51.95	2.91	27.68	-27.18	-13	-14.18	Horizontal
5257.8	-52.02	5.26	35.86	-21.42	-13	-8.42	Vertical
5257.8	-52.5	5.26	35.86	-21.90	-13	-8.90	Horizontal
199.0	-50.23	1.33	15.78	-35.78	-13	-22.78	Vertical
193.1	-51.88	1.47	17.42	-35.93	-13	-22.93	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)

Version.1.2 Page 22 of 44





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.

Version.1.2 Page 23 of 44





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 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				

Version.1.2 Page 24 of 44





7.2.6 Test Results

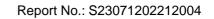
EUT:	Mobile Phone	Model No.:	SOSPIRO-AX64
Temperature:	120 °C	Relative Humidity:	48%
Test Mode:	GSM/GPRS/EGPRS 850, GSM/GPRS/EGPRS 1900, UMTS band II/ UMTS band V/UMTS band IV	Test By:	Allen Liu

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	13.29	2.11	23.84	2.15	32.87	1.936422			
836.4	Н	14.28	2.13	23.15	2.15	33.15	2.065380			
848.8	Н	14.52	2.13	23.06	2.15	33.30	2.137962			
824.2	V	14.69	2.11	23.11	2.15	33.54	2.259436			
836.4	V	14.89	2.13	23.07	2.15	33.68	2.333458			
848.8	V	14.45	2.13	23.25	2.15	33.42	2.197860			

	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	14.77	2.13	23.15	2.15	33.64	2.312065			
848.8	Н	14.27	2.13	23.06	2.15	33.05	2.018366			
824.2	V	14.70	2.11	23.11	2.15	33.55	2.264644			
836.4	V	14.67	2.13	23.07	2.15	33.46	2.218196			
848.8	V	13.83	2.13	23.25	2.15	32.80	1.905461			

Version.1.2 Page 25 of 44







Radiated Power (ERP) for EGPRS850									
Frequency		SG	Pcl	Antenna	Correction	ERP	ERP		
, ,	Polarization	Level		Factor					
(MHz)		(dBm)	(dB)	(dB)	(dB)	(dBm)	(W)		
824.2	Н	10.15	2.11	23.84	2.15	29.73	0.939723		
836.6	Н	9.56	2.13	23.15	2.15	28.43	0.696627		
848.8	Н	10.34	2.13	23.06	2.15	29.12	0.816582		
824.2	V	10.05	2.11	23.11	2.15	28.90	0.776247		
836.6	V	10.13	2.13	23.07	2.15	28.92	0.779830		
848.8	V	10.50	2.13	23.25	2.15	29.47	0.885116		

	Radiated Power (ERP) for UMTS band V									
Frequency	Polarization	SG Level	Pcl	Antenna Factor	Correction	ERP	ERP			
(MHz)	1 Glarization	(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	6.49	2.11	23.11	2.15	25.34	0.341979			
835	V	5.57	2.13	23.07	2.15	24.36	0.272898			
846.6	V	5.50	2.13	23.25	2.15	24.47	0.279898			

Version.1.2 Page 26 of 44





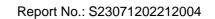


	Radiated Power (E.I.R.P) for GSM1900								
Frequency	Polarization	SG Level	Pcl	Antenna Factor	EIRP	EIRP			
(MHz)		(dBm)	(dB)	(dB)	(dBm)	(W)			
1850.2	Н	8.25	3.76	28.24	32.73	1.874995			
1880	Н	7.92	3.91	28.22	32.23	1.671091			
1909.8	Н	8.29	3.93	28.20	32.56	1.803018			
1850.2	V	8.61	3.76	27.32	32.17	1.648162			
1880	V	9.06	3.91	27.33	32.48	1.770109			
1909.8	V	9.25	3.93	27.31	32.63	1.832314			

	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	8.27	3.76	28.24	32.75	1.883649			
1880	Н	7.61	3.91	28.22	31.92	1.555966			
1909.8	Н	8.06	3.93	28.20	32.33	1.710015			
1850.2	V	9.12	3.76	27.32	32.68	1.853532			
1880	V	8.78	3.91	27.33	32.20	1.659587			
1909.8	V	9.00	3.93	27.31	32.38	1.729816			

	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	4.25	3.76	28.24	28.73	0.746449			
1880	Н	4.03	3.91	28.22	28.34	0.682339			
1909.8	Н	4.53	3.93	28.20	28.80	0.758578			
1850.2	V	4.59	3.76	27.32	28.15	0.653131			
1880	V	4.75	3.91	27.33	28.17	0.656145			
1909.8	V	4.98	3.93	27.31	28.36	0.685488			

Version.1.2 Page 27 of 44







	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	1.62	3.76	28.24	26.10	0.407380			
1880	Н	0.66	3.91	28.22	24.97	0.314051			
1907.6	Н	1.60	3.93	28.20	25.87	0.386367			
1852.4	V	2.47	3.76	27.32	26.03	0.400867			
1880	V	2.35	3.91	27.33	25.77	0.377572			
1907.6	V	3.26	3.93	27.31	26.64	0.461318			

Radiated Power (E.I.R.P) for UMTS band IV								
Frequency		SG	Pcl	Antenna	EIRP	(W) 0.285759 0.288403 0.292415		
	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	0.10	3.13	27.63	24.60	0.288403		
1732.6	V	0.60	3.27	27.61	24.94	0.311889		
1752.6	V	0.48	3.30	27.60	24.78	0.300608		

Note:

SG Level= Signal generator output

Pcl= cable loss

Ga= Antenna Factor

Peak EIRP(dBm)= SGLevel -Pcl +Ga

ERP(dBm)=EIRP-2.15

Version.1.2 Page 28 of 44



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.

Version.1.2 Page 29 of 44





7.3.6 Test Results

EUT:	Mobile Phone	Model No.:	SOSPIRO-AX64
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

Version.1.2 Page 30 of 44





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.

Version.1.2 Page 31 of 44

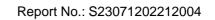




7.4.6 Test Results

EUT:	Mobile Phone	Model No.:	SOSPIRO-AX64
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			

Version.1.2 Page 32 of 44







Frequency Error Against Voltage for GSM 850 band(Mid CH)		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.4	7.83	0.009362
3.87	9.12	0.010904
4.4	7.68	0.009182

Frequency Error Against Temperature for GSM 850 band(Mid CH)		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	9.28	0.011095
-20	8.9	0.010641
-10	6.09	0.007281
0	6.47	0.007736
10	6.38	0.007628
20	9.2	0.011000
30	7.17	0.008572
40	7.63	0.009122
50	12.65	0.015124

Frequency Error Against Voltage for GPRS850 band(Mid CH)		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.4	6.88	0.008226
3.87	9.47	0.011322
4.4	6.9	0.008250

Frequency Error Against Temperature for GPRS850 band(Mid CH)		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	6.08	0.007269
-20	8.04	0.009613
-10	7.44	0.008895
0	6.79	0.008118
10	8.77	0.010485
20	7.39	0.008835
30	7.74	0.009254
40	9.13	0.010916
50	11.13	0.013307

Version.1.2 Page 33 of 44





Frequency Error Against Voltage for EGPRS850 band(Mid CH)		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.4	8.37	0.010007
3.87	7.71	0.009218
4.4	8.02	0.009589

Frequency Error Against Temperature for EGPRS850 band(Mid CH)		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	4.18	0.004998
-20	9.31	0.011131
-10	8	0.009565
0	6.59	0.007879
10	6.58	0.007867
20	7.09	0.008477
30	7.48	0.008943
40	9.1	0.010880
50	13.19	0.015770

Note:

- 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.

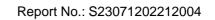
Frequency Error Against Voltage for UMTS band V(Mid CH)		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)
3.4	-17.09	-0.020433
3.87	-15.81	-0.018902
4.4	-15.7	-0.018771

Frequency Error Against Temperature for UMTS band V (Mid CH)		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	-17.23	-0.020600
-20	-15.5	-0.018532
-10	-17.95	-0.021461
0	-15.87	-0.018974
10	-18.71	-0.022370
20	-18.7	-0.022358
30	-18.45	-0.022059
40	-19.58	-0.023410
50	-23.48	-0.028073

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.

Version.1.2 Page 34 of 44







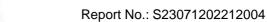
Frequency Error Against Voltage for PCS 1900 band (Mid CH)			
Frequ	ency Error Against voltage for PCS		
Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	
3.4	20.14	0.010713	
3.87	18.23	0.009697	
4.4	20.69	0.011005	

Frequency Error Against Temperature for PCS 1900 band (Mid CH)		
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	18.71	0.009952
-20	19.14	0.010181
-10	17.44	0.009277
0	19.32	0.010277
10	19.68	0.010468
20	19.07	0.010144
30	17.55	0.009335
40	20.91	0.011122
50	20.62	0.010968

Frequency Error Against Voltage for GPRS1900 band (Mid CH)				
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)				
3.4 16.41 0.00		0.008729		
3.87	3.87 18.44 0.009809			
4.4 18.56 0.009872		0.009872		

Frequency Error Against Temperature for GPRS1900 band (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	18.93	0.010069	
-20	17.93	0.009537	
-10	18.67	0.009931	
0	17.03	0.009059	
10	16.76	0.008915	
20	19.64	0.010447	
30	19.66	0.010457	
40	20.17	0.010729	
50	21.19	0.011271	

Version.1.2 Page 35 of 44







Frequency Error Against Voltage for EGPRS1900 band (Mid CH)				
Voltage (V)	Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4	3.4 16.72			
3.87	18.45 0.009814			
4.4 18.2 0.009681		0.009681		

Frequency Error Against Temperature for EGPRS1900 band (Mid CH)				
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)		
-30	17.07	0.009080		
-20	20.69	0.011005		
-10	17.08	0.009085		
0	16.02	0.008521		
10	20.57	0.010941		
20	19.1	0.010160		
30	17.93	0.009537		
40	17.65	0.009388		
50	20.34	0.010819		

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.

Version.1.2 Page 36 of 44







Frequency Error Against Voltage for UMTS band II (Mid CH)				
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)				
3.4	-19.36	-0.010298		
3.87	-18.09	-0.009622		
4.4 -18.39 -0.009782		-0.009782		

Frequency Error Against Temperature for UMTS band II (Mid CH)			
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	
-30	-18.03	-0.009590	
-20	-19.44	-0.010340	
-10	-18.57	-0.009878	
0	-16.73	-0.008899	
10	-16.94	-0.009011	
20	-16.7	-0.008883	
30	-17.09	-0.009090	
40	-15.89	-0.008452	
50	-23.64	-0.012574	

Frequency Error Against Voltage for UMTS band IV(Mid CH)			
Voltage (V) Frequency Error (Hz) Frequency Error (ppm)			
3.4 -16.8 -0.009698		-0.009698	
3.87	-10.05	-0.005801	
4.4 -15.14 -0.008739		-0.008739	

Frequency Error Against Temperature for UMTS band IV (Mid CH)				
Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)		
-30	-6.73	-0.003885		
-20	-14.68	-0.008474		
-10	-13.89	-0.008018		
0	-9.81	-0.005663		
10	-14.19	-0.008191		
20	-15.55	-0.008976		
30	-15.15	-0.008745		
40	-20.08	-0.011591		
50	-22.44	-0.012953		

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.

Version.1.2 Page 37 of 44





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%.

Version.1.2 Page 38 of 44





7.5.6 Test Results

EUT:	Mobile Phone	Model No.:	SOSPIRO-AX64
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:

Version.1.2 Page 39 of 44





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.

Version.1.2 Page 40 of 44





7.6.6 Test Results

EUT:	Mobile Phone	Model No.:	SOSPIRO-AX64
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:

Version.1.2 Page 41 of 44





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-AX64
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:

Version.1.2 Page 42 of 44





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.

Version.1.2 Page 43 of 44





7.8.6 Test Results

EUT:	Mobile Phone	Model No.:	SOSPIRO-AX64
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

Version.1.2 Page 44 of 44