

FCC RADIO TEST REPORT FCC ID: 2ACWQNXKA01A1

Product: Smartwatch

Trade Name: N/A

Model Name: NXK-A01-A1

Serial Model: N/A

Report No.: BZT-2014NT0825269F

Prepared for

Neusoft Xikang Healthcare Technology Co., Ltd.
Rooms 321, 315-9, Building 6, No. 8 West Dong Bei Wang Road, Haidian District, Beijing 100193, China

Prepared by

BZT Testing Technology Co., Ltd

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



TEST RESULT CERTIFICATION

Applicant's name: Neusoft Xikang Healthcare Technology Co., Ltd.

Haidian District, Beijing 100193, China

Manufacture's Name.....: Guangdong Appscomm Co.,Ltd

Address: Rm 903, Block C3, Chuangxin Building, No.182, Science Road,

Science City, LuoGang Zone, Guangzhou 510000, PRC

Product description

Product name: Smartwatch

Band name: N/A

Model and/or type reference : NXK-A01-A1

Standards FCC Part15.247

Test procedure ANSI C63.4-2003

This device described above has been tested by BZT, 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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Date of Test

Date of Issue : 10 August. 2014

Test Result..... Pass

Testing Engineer : (yan Chen

(Lynn Chen)

Technical Manager :

(Carlen Liu)

Authorized Signatory:

(Tommy zhang)



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.247 (a)(2)	6dB Bandwidth	PASS		
15.247 (b)	Peak Output Power	PASS		
15.247 (c)	Radiated Spurious Emission	PASS		
15.247 (d)	Power Spectral Density	PASS		
15.205	Band Edge Emission	PASS		
15.203	Antenna Requirement	PASS		

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NOTE:

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



1.1 TEST FACILITY

BZT Testing Technology Co., Ltd

Add.:1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District,

Shenzhen P.R. China.

FCC Registration No.: 701733

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Smartwatch		
Trade Name	N/A		
Model Name	NXK-A01-A1		
Serial Model	N/A		
Model Difference	N/A		
Product Description	The EUT is a Smartwatch Operation		
Frequency Bands:	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐		
Bluetooth 2.1+EDR	Frequency:2402 – 2480 MHz Modulation: GFSK, π/4 DQPSK, 8-DPSK Output Power: 3.32dBm		
Wifi	Frequency:2412 – 2462 MHz Modulation: CCK/OFDM/DBPSK/DAPSK Output Power: 9.43 dBm		
Channel List	Please refer to the Note 2.		
Ratings	DC 5V from adapter and 3.7V from battery		
Adapter	DC 5V 1000mA		
Battery	3000mA		
Connecting I/O Port(s)	Please refer to the User's Manual		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2

	Channel List for 802.11b/g/n(20MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2402	11	2422	21	2442	31	2462
02	2404	12	2424	22	2444	32	2464
03	2406	13	2426	23	2446	33	2466
04	2408	14	2428	24	2448	34	2468
05	2410	15	2430	25	2450	35	2470
06	2412	16	2432	26	2452	36	2472
07	2414	17	2434	27	2454	37	2474
80	2416	18	2436	28	2456	38	2476
09	2418	19	2438	29	2458	39	2478
10	2420	20	2440	30	2460	40	2480

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3.

Table for Filed Antenna

IUDI	Table 161 Tilled Tillica Tillica						
Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE	
Α	N/A	N/A	Integral Antenna	N/A	0.9	N/A	



2.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	Link Mode
Mode 2	CH1/ CH20/ CH40

For Conducted Emission				
Final Test Mode Description				
Mode 1	Link Mode			
Mode 2	CH1/ CH20/ CH40			

For Radiated Emission				
Final Test Mode Description				
Mode 1	Link Mode			
Mode 2	CH1/ CH20/ CH40			

Note:

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

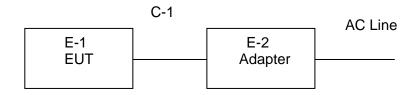


2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test





2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Smartwatch	N/A	NXK-A01-A1	N/A	EUT
E-2	Adapter	N/A	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1M	

Note:

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



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2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

	ation rest equip						1
Item	Kind of	Manufacturer	Type No.	Serial No.	Last	Calibrated	Calibration
	Equipment				calibration	until	period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2014.07.05	2015.07.04	1 year
2	Test Receiver	R&S	ESPI	101318	2014.07.05	2015.07.04	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2014.07.22	2015.07.21	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2014.07.05	2015.07.04	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2014.07.05	2015.07.04	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2014.07.22	2015.07.21	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.22	2015.07.21	1 year
8	Amplifier	EM	EM-30180	060538	2014.07.05	2015.07.04	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2014.07.22	2015.07.21	1 year
10	Power Meter	R&S	NRVS	100696	2014.07.05	2015.07.04	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2014.06.20	2015.06.19	1 year

Conduction Test equipment

Item	Kind of	Manufactu	Type No.	Serial No.	Last	Calibrated	Calibration
	Equipment	rer			calibration	until	period
1	Test Receiver	R&S	ESCI	101160	2014.07.05	2015.07.04	1 year
2	LISN	R&S	ENV216	101313	2014.07.05	2015.07.04	1 year
3	LISN	EMCO	3816/2	00042990	2014.07.05	2015.07.04	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2014.07.05	2015.07.04	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.07.05	2015.07.04	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2014.07.05	2015.07.04	1 year



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

	Class A	(dBuV)	Class B	(dBuV)	Ctondord
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Standard
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



3.1.2 TEST PROCEDURE
a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

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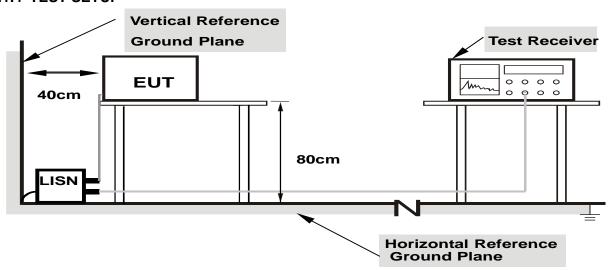
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80

from other units and other metal planes

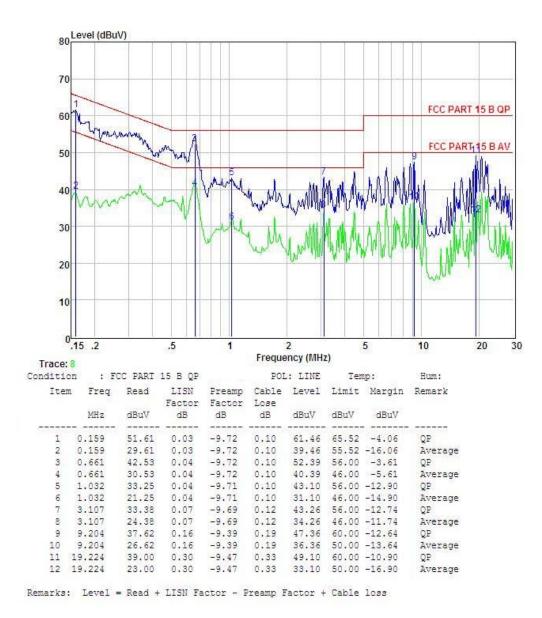
3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.



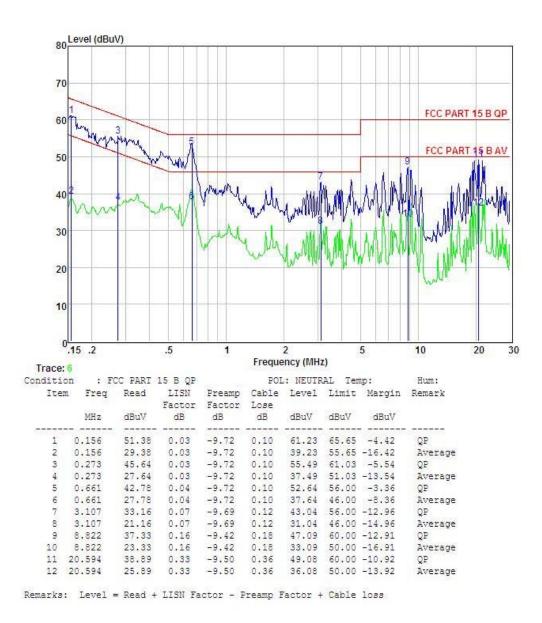
3.1.6 TEST RESULTS

EUT:	Smartwatch	Model Name :	NXK-A01-A1
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
TAST VOIDAGE .	DC 5V from adapter AC120V/60Hz	Test Mode:	Mode 1





EUT:	Smartwatch	Model Name :	NXK-A01-A1
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
TIEST VOUZOE .	DC 5V from adapter AC120V/60Hz	Test Mode :	Mode 1





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

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

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Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3M)		Class B (dBuV/m) (at 3M)	
PREQUENCY (MIDZ)	PEAK AVERAGI		PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted	4 Mile / 4 Mile for Dools 4 Mile / 40/le for Average
band)	1 MHz / 1 MHz for Peak, 1 MHz / <i>10Hz</i> for Average

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



3.2.2 TEST PROCEDURE

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

Note:

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

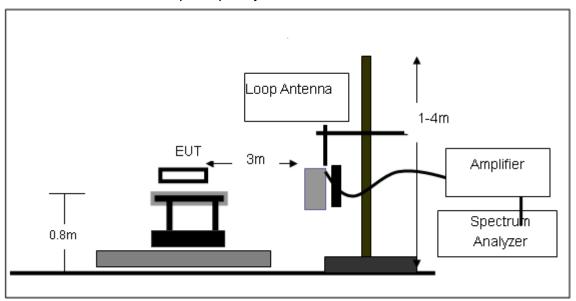
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

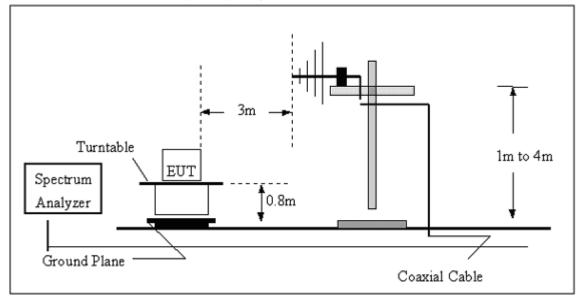


3.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

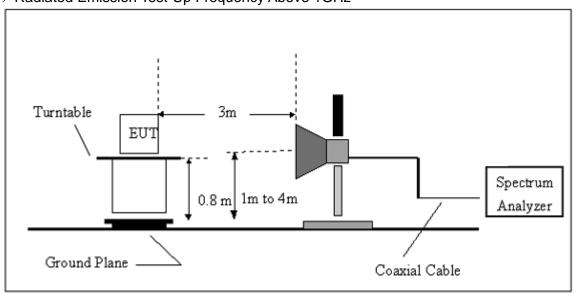


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) Radiated Emission Test-Up Frequency Above 1GHz



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3.2.5 EUT OPERATING CONDITIONS

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



3.2.6 TEST RESULTS (BETWEEN 9KHZ - 30 MHZ)

EUT:	Smartwatch	Model Name :	NXK-A01-A1
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 5V from adapter with AC 120V/60Hz
Test Mode:	Link mode	Polarization:	

Report No.: BZT-2014NT0825269F

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

NOTE:

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

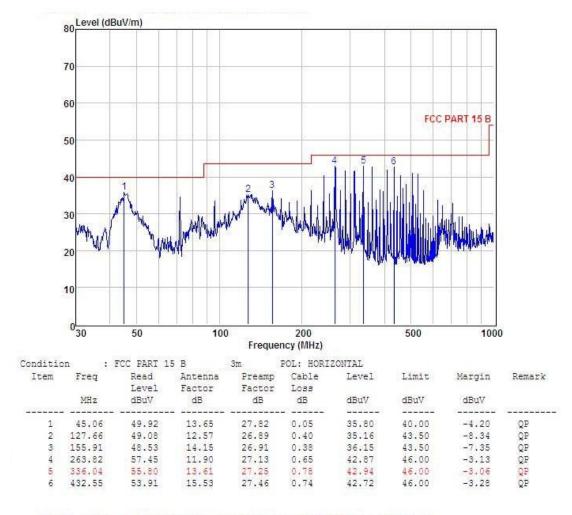
Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



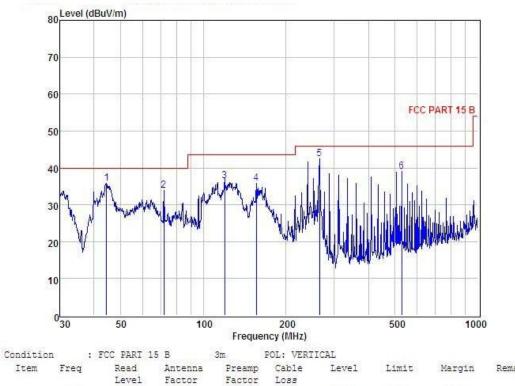
3.2.7 TEST RESULTS (BETWEEN 30MHZ - 1GHZ)

EUT:	Smartwatch	Model Name :	NXK-A01-A1
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HEST VANIANE .	DC 5V from adapter with AC 120V/60Hz
Test Mode :	Link mode	Polarization :	Horizontal





EUT:	Smartwatch	Model Name :	NXK-A01-A1
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HEST VANIANE .	DC 5V from adapter with AC 120V/60Hz
Test Mode :	Link mode	Polarization :	Vertical



Conditio	n :	FCC PART 1	.5 B	3m	POL: VERT	ICAL			
Item	Freq	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Level	Limit	Margin	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	2002203-00191
1	44.43	49.86	13.79	27.81	0.03	35.87	40.00	-4.13	QP
2	71.83	50.03	10.51	26.77	0.19	33.96	40.00	-6.04	QP
3	119.86	50.82	12.06	26.88	0.36	36.36	43.50	-7.14	QP
4	155.91	48.20	14.15	26.91	0.38	35.82	43.50	-7.68	QP
5	264.75	56.98	11.96	27.13	0.57	42.38	46.00	-3.62	QP
6	528.25	48.71	17.03	27.68	1.07	39.13	46.00	-6.87	QP



3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

Radiated Spurious Emission (Transmitting)

EUT:	Smartwatch	Model Name :	NXK-A01-A1				
Temperature:	20 ℃	Relative Humidity:	48%				
Pressure :	1010 hPa	Test Voltage :	DC 5V				
Test Mode :	CH1 /2402	Polarization :	Horizontal				

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.00	45.93	10.44	56.37	74	-17.63	peak
4804.00	33.28	10.44	43.72	54	-10.28	AVG
7306.00	44.31	12.75	57.06	74	-16.94	peak
7306.00	31.68	12.75	44.43	54	-9.57	AVG

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT:	Smartwatch	Model Name :	NXK-A01-A1
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH1 /2402	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4804.00	45.14	10.44	55.58	74	-18.42	peak
4804.00	30.48	10.44	40.92	54	-13.08	AVG
7306.00	43.61	12.75	56.36	74	-17.64	peak
7306.00	29.42	12.75	42.17	54	-11.83	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT:	Smartwatch	Model Name :	NXK-A01-A1
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH20 /2440	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4880.00	44.51	10.38	54.89	74	-19.11	peak
4880.00	30.76	10.38	41.14	54	-12.86	AVG
7320.00	43.63	12.68	56.31	74	-17.69	peak
7320.00	30.84	12.68	43.52	54	-10.48	AVG

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT:	Smartwatch	Model Name :	NXK-A01-A1
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH20 /2440	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4880.00	45.30	10.38	55.68	74	-18.32	peak
4880.00	31.16	10.38	41.54	54	-12.46	AVG
7320.00	43.39	12.68	56.07	74	-17.93	peak
7320.00	29.68	12.68	42.36	54	-11.64	AVG

Remark:

- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. No emission detected above 18GHz



EUT: Smartwatch Model Name : NXK-A01-A1 Relative Humidity: Temperature: $^{\circ}$ C 48% 20 Test Voltage : Pressure: 1010 hPa DC 5V Test Mode : CH40 /2480 Horizontal Polarization:

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Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.00	44.14	10.33	54.47	74	-19.53	peak
4960.00	31.21	10.33	41.54	54	-12.46	AVG
7440.00	43.00	12.71	55.71	74	-18.29	peak
7440.00	29.50	12.71	42.21	54	-11.79	AVG

Remark:

- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. No emission detected above 18GHz

EUT:	Smartwatch	Model Name :	NXK-A01-A1
Temperature:	20 °C	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V
Test Mode :	CH40 /2480	Polarization:	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Valua Tyraa
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4960.00	43.51	10.33	53.84	74	-20.16	peak
4960.00	30.14	10.33	40.47	54	-13.53	AVG
7440.00	44.11	12.71	56.82	74	-17.18	peak
7440.00	29.87	12.71	42.58	54	-11.42	AVG

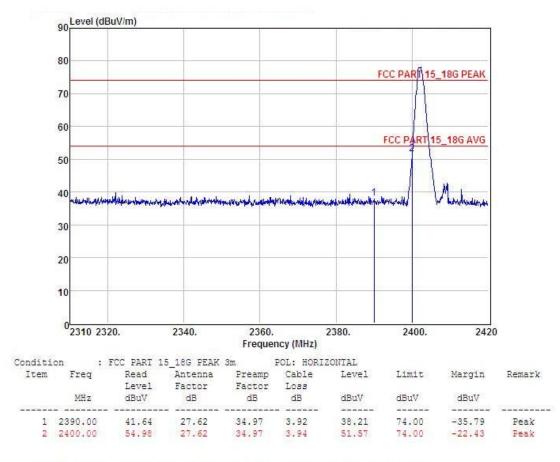
Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



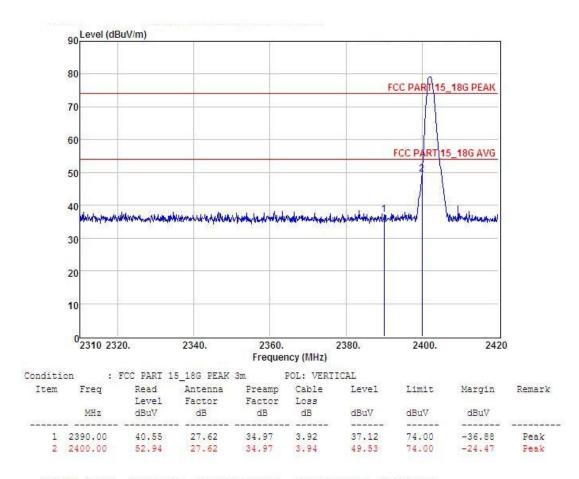
3.2.9 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

EUT:	Smartwatch	Model Name :	NXK-A01-A1
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TEST VOITAGE .	DC 5V For adapter with AC 120V/60Hz
Test Mode :	CH1 2402MHz	Polarization:	Horizontal



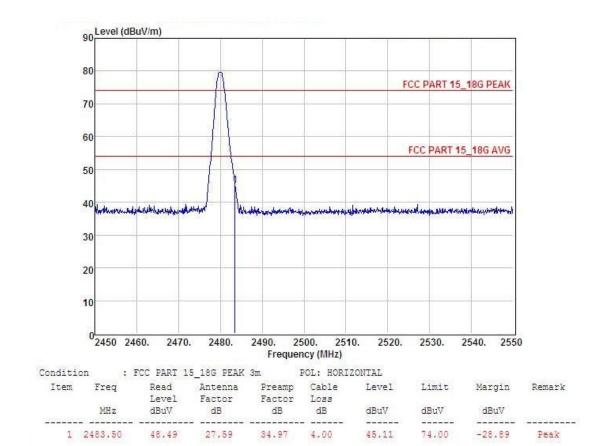


EUT:	Smartwatch	Model Name :	NXK-A01-A1
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	11061 ((()))	DC 5V For adapter with AC 120V/60Hz
Test Mode :	CH1 2402MHz	Polarization :	Vertical



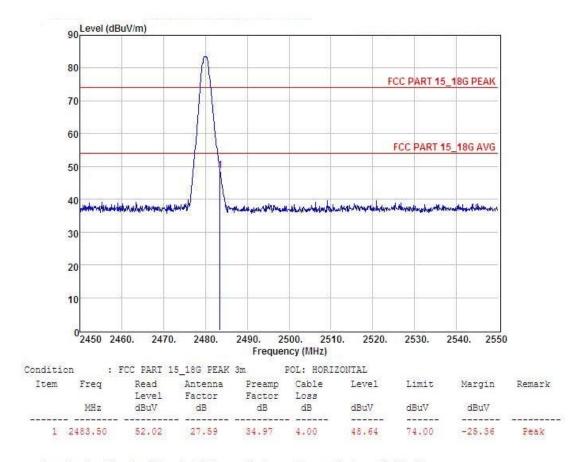


EUT:	Smartwatch	Model Name :	NXK-A01-A1
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIAST VAIISAA	DC 5V For adapter with AC 120V/60Hz
Test Mode :	CH40 2480MHz	Polarization :	Horizontal





EUT:	Smartwatch	Model Name :	NXK-A01-A1
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIAST VAITANA	DC 5V For adapter with AC 120V/60Hz
Test Mode :	CH40 2480MHz	Polarization :	Vertical





4. POWER SPECTRAL DENSITY TEST

4.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247), Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS		

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4.1.1 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$
- 4. Set the VBW ≥ $3 \times RBW$.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

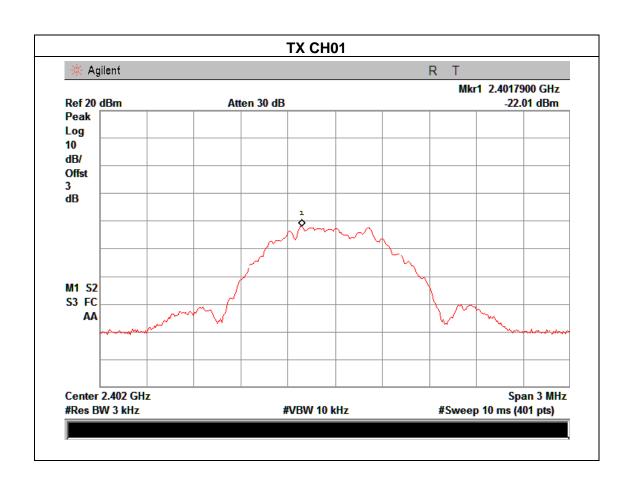
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

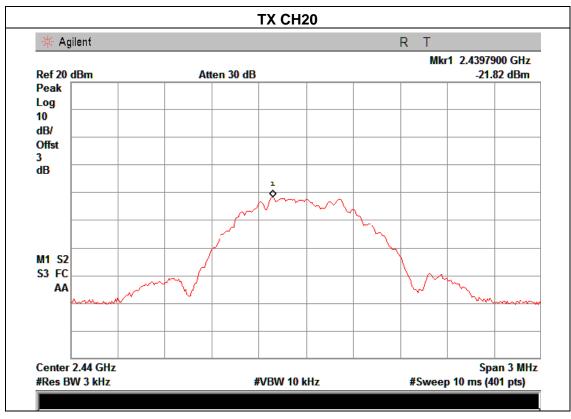


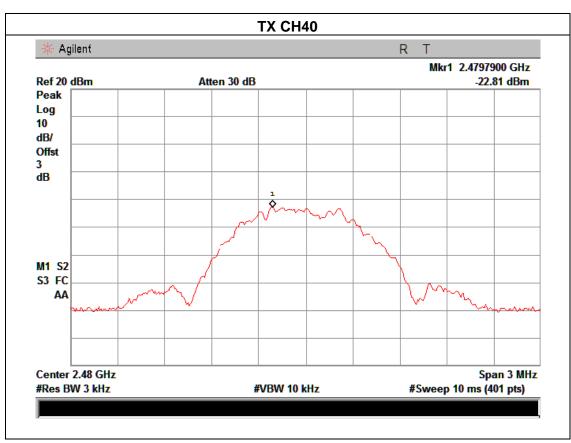
4.1.5 TEST RESULTS

EUT:	Smartwatch	Model Name :	NXK-A01-A1
Temperature:	20 °C	Relative Humidity:	60%
Pressure :	1015 hPa	Hest vollage .	DC 5V from adapter AC120V/60Hz
Test Mode : TX Mode / CH01, CH20, CH40			

Frequency	Power Density (dBm)	Limit (dBm)	Result
2402 MHz	-22.01	8	PASS
2440 MHz	-21.82	8	PASS
2480 MHz	-22.81	8	PASS









5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS		

5.1.1 TEST PROCEDURE

- 1. Set RBW = 100 kHz
- 2. Set the video bandwidth (VBW) \geq 3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

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

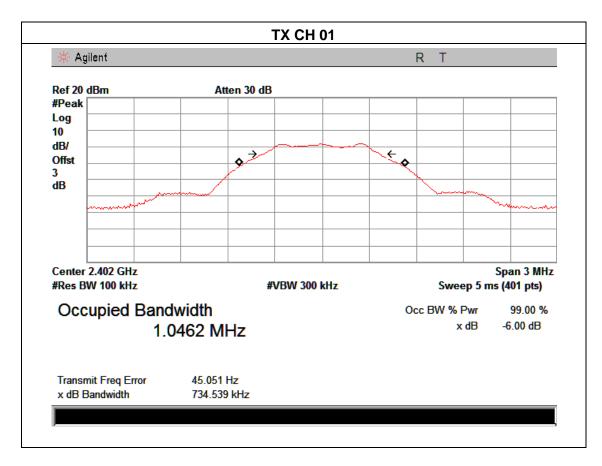


5.1.5 TEST RESULTS

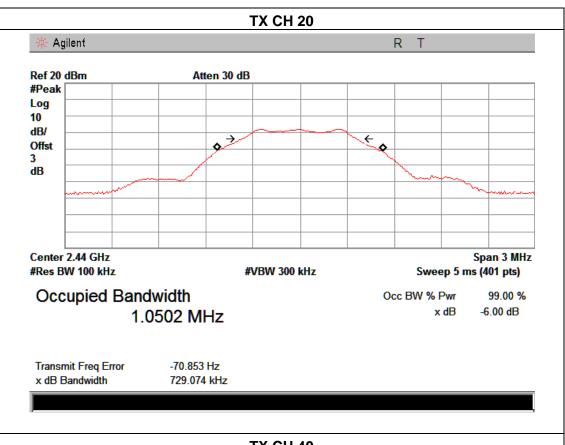
EUT:	Smartwatch	Model Name :	NXK-A01-A1
Temperature:	20 °C	Relative Humidity:	60%
Pressure :	1012 hPa	Test vollage .	DC 5V from adapter AC120V/60Hz
Test Mode :	TX Mode / CH01, CH20, CH40		

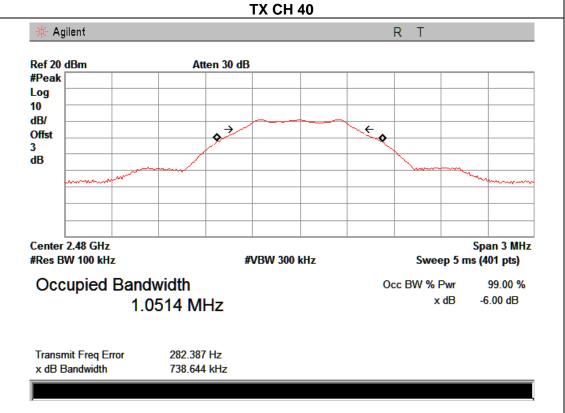
Report No.: BZT-2014NT0825269F

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2402 MHz	0.735	>=500KHz	PASS
2440 MHz	0.729	>=500KHz	PASS
2480 MHz	0.739	>=500KHz	PASS











6. PEAK OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS	

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6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

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



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6.1.5 TEST RESULTS

EUT:	Smartwatch	Model Name :	NXK-A01-A1
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	HAST VAHAAA .	DC 5V from adapter AC120V/60Hz
Test Mode : TX Mode / CH01, CH20, CH40			

TX Mode					
	_	Maximum Peak Conducted Output	IN AIT		
Test Channe	Frequency	Power	LIMIT		
	(MHz)	(dBm)	dBm		
CH01	2402	-2.15	30		
CH20	2440	-2.98	30		
CH40	2480	-3.13	30		



7. ANTENNA REQUIREMENT

7.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.2 EUT ANTENNA

The EUT antenna is Integrated antenna. It comply with the standard requirement.



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8. EUT TEST PHOTO



