

# RADIO TEST REPORT FCC ID:2AIBY-AX3008T

**Product:** Feature Phone

Trade Name: Artex

Model No.: AX3008T

Serial Model: AX3008S, AX3008R

Report No.: NTEK-2016NT05045508F1

**Issue Date:** 23 May. 2016

# **Prepared for**

ARTEX COMPUTER LLC. 2874 NW 72 AVE, Miami FI 33122 USA

# Prepared by

NTEK TESTING TECHNOLOGY CO., LTD.

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# TABLE OF CONTENTS

1	TE	ST RESULT CERTIFICATION	3
2	SU	MMARY OF TEST RESULTS	4
3	FA	CILITIES AND ACCREDITATIONS	5
	3.1	FACILITIES	5
	3.2	LABORATORY ACCREDITATIONS AND LISTINGS	
	3.3	MEASUREMENT UNCERTAINTY	
4	GE	ENERAL DESCRIPTION OF EUT	6
5		ESCRIPTION OF TEST MODES	
6	SE	TUP OF EQUIPMENT UNDER TEST	9
	6.1	BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM	
	6.2	SUPPORT EQUIPMENT	10
	6.3	EQUIPMENTS LIST FOR ALL TEST ITEMS	
7	TE	ST REQUIREMENTS	12
	7.1	CONDUCTED EMISSIONS TEST	
	7.2	RADIATED SPURIOUS EMISSION	
	7.3	NUMBER OF HOPPING CHANNEL	
	7.4	HOPPING CHANNEL SEPARATION MEASUREMENT	
	7.5	AVERAGE TIME OF OCCUPANCY (DWELL TIME)	
	7.6	20DB BANDWIDTH TEST	
	7.7 7.8	PEAK OUTPUT POWER CONDUCTED BAND EDGE MEASUREMENT	
	7.8 7.9	ANTENNA APPLICATION	
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# 1 TEST RESULT CERTIFICATION

Applicant's name:	Artex Computer LLC.		
Address:	2874 NW 72 AVE, Miami FI 33122 USA		
Manufacturer's Name:	Shenzhen Topsky Digital Technology Limited		
Address	6/F, B6 Building, Hengfeng Industry Park, Xixiang, Bao'an District, Shenzhen, China		
Product description			
Product name	Feature Phone		
Model and/or type reference:	AX3008T		
Serial Model:	AX3008S, AX3008R		

# Measurement Procedure Used:

APPLICABLE STANDARDS		
STANDARD/ TEST PROCEDURE	TEST RESULT	
FCC 47 CFR Part 2, Subpart J:2015 FCC 47 CFR Part 15, Subpart C:2015 KDB 174176 D01 Line Conducted FAQ v01r01 ANSI C63.10-2013 DA 00-705	Complied	

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

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

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

Date of Test	:	04 May. 2016 ~ 23 May. 2016
Testing Engineer	: <u> </u>	Faile Li
		(Jack Li)
Technical Manager	:	Jason chen
		(Jason Chen)
Authorized Signatory	: <u> </u>	Sam. Chen
		(Sam Chen)



# 2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C						
Standard Section	Standard Section Test Item Verdict Remark					
15.207	Conducted Emission	PASS				
15.247(c)	Radiated Spurious Emission	PASS				
15.247(a)(1)	Hopping Channel Separation	PASS				
15.247(b)(1)	Peak Output Power	PASS				
15.247(a)(iii)	Number of Hopping Frequency	PASS				
15.247(a)(iii)	Dwell Time	PASS				
15.247(a)(1)	Bandwidth	PASS				
15.205	Band Edge Emission	PASS				
15.203	Antenna Requirement	PASS				

### Remark

- 1. "N/A" denotes test is not applicable in this Test Report.
- 2. All test items were verified and recorded according to the standards and without any deviation during the test.
- This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



# 3 FACILITIES AND ACCREDITATIONS

### 3.1 FACILITIES

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

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

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

# 3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab. : Accredited by CNAS, 2014.09.04

The certificate is valid until 2017.09.03

The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L5516.

Accredited by FCC, September 6, 2013

The Certificate Registration Number is 238937.

Accredited by Industry Canada, August 29, 2012 The Certificate Registration Number is 9270A-1.

Name of Firm : NTEK Testing Technology Co., Ltd

Site Location : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang

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

# 3.3 MEASUREMENT UNCERTAINTY

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

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%



# 4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification				
Equipment	Feature Phone			
Trade Name	Artex			
FCC ID	2AIBY-AX3008T			
Model No.	AX3008T			
Serial Model	AX3008S, AX3008R			
Model Difference	All the model are the same circuit and RF module, except the model No. and colour.			
Operating Frequency	2402MHz~2480MHz			
Modulation	GFSK, π/4-DQPSK, 8DPSK			
Number of Channels	79 Channels			
Antenna Type	Cable Antenna			
Antenna Gain	1 dBi			
	☑DC supply: DC 3.7V/600mAh from Li-ion Battery or DC 5V from USB Port.			
Power supply	⊠Adapter supply: Model: AX3008T Input: 90-260V~, 50/60Hz, 0.1A Output: 5.0V===, 500mA			
HW Version	N/A			
SW Version	N/A			

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.



# **Revision History**

Report No.	Version	Description	Issued Date
NTEK-2016NT05045508F1	Rev.01	Initial issue of report	May 23 2016



# 5 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.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (1Mbps for GFSK modulation; 2Mbps for  $\pi/4$ -DQPSK modulation; 3Mbps for 8DPSK modulation) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report.

Carrier Frequency and Channel list:

Channel	Frequency(MHz)
0	2402
1	2403
39	2441
40	2442
77	2479
78	2480

Note:  $fc=2402MHz+k\times 1MHz$  k=0 to 78

The following summary table is showing all test modes to demonstrate in compliance with the standard.

For AC Conducted Emission	
Final Test Mode	Description
Mode 4	normal link mode

Note: AC power line Conducted Emission was tested under maximum output power.

For Radiated Test Cases		
Final Test Mode	Description	
Mode 1	CH00(2402MHz)	
Mode 2	CH39(2441MHz)	
Mode 3	CH78(2480MHz)	

Note: For radiated test cases, the worst mode data rate 1Mbps was reported only, because this data rate has the highest RF output power at preliminary tests, and no other significantly frequencies found in conducted spurious emission.

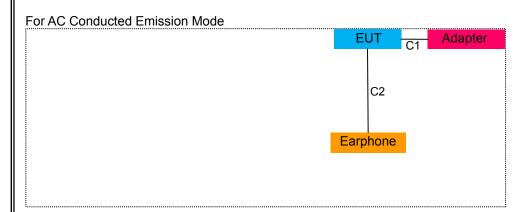
For Conducted Test Cases		
Final Test Mode	Description	
Mode 1	CH00(2402MHz)	
Mode 2	CH39(2441MHz)	
Mode 3	CH78(2480MHz)	

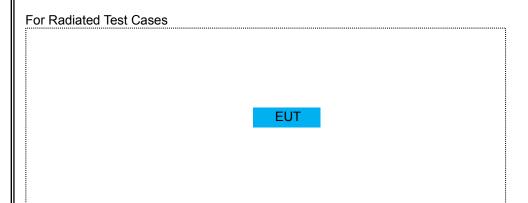
Note: The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.

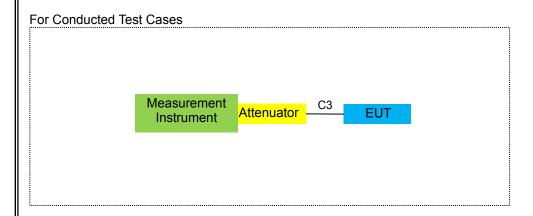


# **6 SETUP OF EQUIPMENT UNDER TEST**

# 6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM









# **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.	FCC ID	Note
E-1	Feature Phone	Artex	AX3008T	2AIBY-AX3008T	EUT
E-2	Adapter	N/A	AX3008T	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	NO	NO	1.0m
C-2	Earphone	NO	NO	0.8m
C-3	RF Cable	NO	NO	0.5m

# 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".



# 6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

		ipment

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Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	MXA Signal Analyzer	Agilent	N9020A	MY49100060	2015.11.19	2016.11.18	1 year
2	Test Receiver	R&S	ESPI	101318	2015.06.07	2016.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2015.07.06	2016.07.05	1 year
4	Horn Antenna	EM	EM-AH-1018 0	2011071402	2015.07.06	2016.07.05	1 year
5	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05	1 year
6	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07	1 year
7	Amplifier	EM	EM-30180	060538	2015.12.22	2016.12.21	1 year
8	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2015.06.07	2016.06.06	1 year
9	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05	1 year
10	Power Sensor	R&S	URV5-Z4	0395.1619.0 5	2015.07.06	2016.07.05	1 year
11	Test Cable	N/A	R-01	N/A	2015.07.06	2016.07.05	1 year
12	Test Cable	N/A	R-02	N/A	2015.07.06	2016.07.05	1 year
13	Test Cable	N/A	R-03	N/A	2015.06.29	2016.06.28	1 year
14	Signal Generator	Agilent	E4438C	MY45093347	2015.06.28	2016.06.27	1 year

# **Conduction Test equipment**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2015.06.06	2016.06.05	1 year
2	LISN	R&S	ENV216	101313	2015.08.24	2016.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2015.08.24	2016.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2015.06.07	2016.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2015.06.07	2016.06.06	1 year
6	Absorbing clamp	R&S	MDS-21	100423	2015.06.08	2016.06.07	1 year
7	Test Cable	N/A	C01	N/A	2015.06.08	2016.06.07	1 year
8	Test Cable	N/A	C02	N/A	2015.06.08	2016.06.07	1 year
9	Test Cable	N/A	C03	N/A	2015.06.08	2016.06.07	1 year
1	Attenuation	MCE	24-10-34	BN9258	2015.06.08	2016.06.07	1 year

Note: Each piece of equipment is scheduled for calibration once a year.



# 7 TEST REQUIREMENTS

# 7.1 CONDUCTED EMISSIONS TEST

# 7.1.1 Applicable Standard

According to FCC Part 15.207(a) and KDB 174176 D01 Line Conducted FAQ v01r01

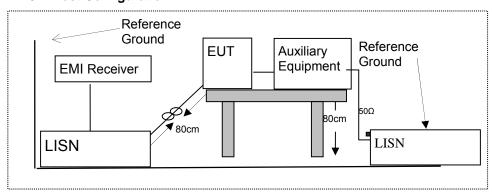
### 7.1.2 Conformance Limit

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

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

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

# 7.1.3 Test Configuration



# 7.1.4 Test Procedure

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

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

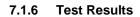
# 7.1.5 Test Results

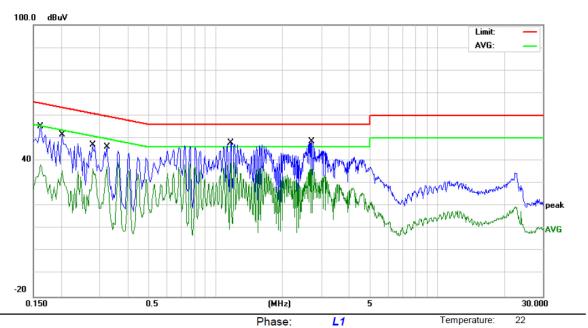
Pass

Humidity:

51 %







Site
Limit: FCC PART15\_Class B \_Main\_QP

Mode: Mode 4

Note:

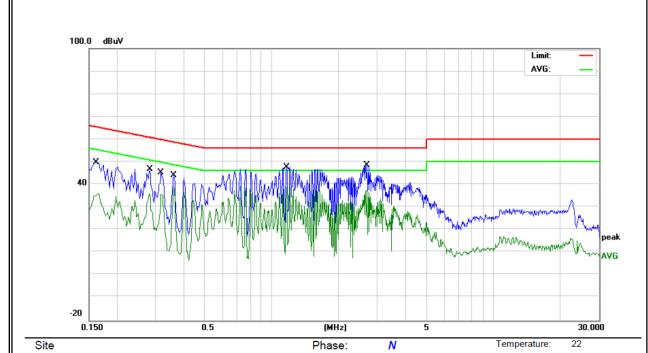
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1620	44.99	10.12	55.11	65.36	-10.25	QP	
2		0.1620	28.29	10.12	38.41	55.36	-16.95	AVG	
3		0.2020	41.48	10.13	51.61	63.52	-11.91	QP	
4		0.2020	25.53	10.13	35.66	53.52	-17.86	AVG	
5		0.2779	37.04	10.14	47.18	60.88	-13.70	QP	
6		0.2779	26.52	10.14	36.66	50.88	-14.22	AVG	
7		0.3220	36.00	10.12	46.12	59.65	-13.53	QP	
8		0.3220	27.34	10.12	37.46	49.65	-12.19	AVG	
9		1.1699	38.18	9.83	48.01	56.00	-7.99	QP	
10	*	1.1699	29.42	9.83	39.25	46.00	-6.75	AVG	
11		2.7099	38.72	9.74	48.46	56.00	-7.54	QP	
12		2.7099	27.33	9.74	37.07	46.00	-8.93	AVG	

Power:

AC 120V/60Hz

<sup>\*:</sup>Maximum data x:Over limit !:over margin





Limit: FCC PART15\_Class B \_Main\_QP

Mode: Mode 4

Note:

Power: AC 120V/60Hz Humidity: 51 %

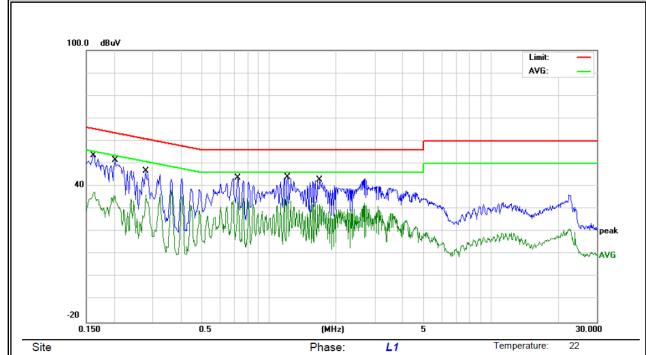
No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1620	39.63	10.07	49.70	65.36	-15.66	QP	
2	0.1620	25.92	10.07	35.99	55.36	-19.37	AVG	
3	0.2819	36.58	10.11	46.69	60.76	-14.07	QP	
4	0.2819	25.80	10.11	35.91	50.76	-14.85	AVG	
5	0.3180	35.18	10.12	45.30	59.76	-14.46	QP	
6	0.3180	29.24	10.12	39.36	49.76	-10.40	AVG	
7	0.3620	33.93	10.08	44.01	58.68	-14.67	QP	
8	0.3620	25.52	10.08	35.60	48.68	-13.08	AVG	
9	1.1660	37.92	9.85	47.77	56.00	-8.23	QP	
10 *	1.1660	29.22	9.85	39.07	46.00	-6.93	AVG	
11	2.6980	38.81	9.74	48.55	56.00	-7.45	QP	
12	2.6980	27.64	9.74	37.38	46.00	-8.62	AVG	

<sup>\*:</sup>Maximum data x:Over limit !:over margin

Humidity:

51 %





Limit: FCC PART15\_Class B \_Main\_QP

Mode: Mode 4

Note:

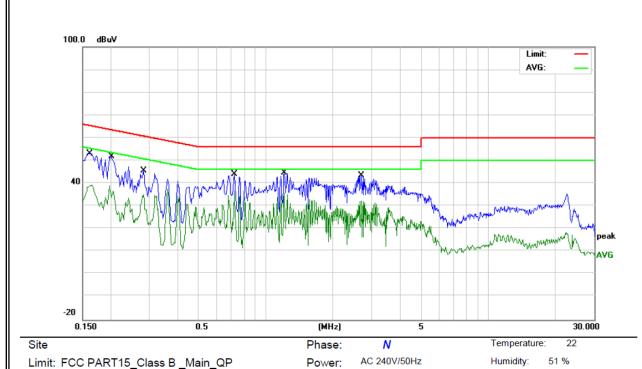
Reading Correct Measure-Limit Over No. Mk. Freq. Level Factor ment dBuV dΒ dBuV dBuV MHz dΒ Detector Comment 0.1620 43.49 10.12 53.61 65.36 -11.75 1 QP 2 0.1620 27.27 10.12 37.39 55.36 -17.97 AVG 3 0.2020 41.48 10.13 51.61 63.52 -11.91 QP 0.2020 53.52 -17.68 4 25.71 10.13 35.84 AVG 5 0.2779 36.54 10.14 46.68 60.88 -14.20 QP 6 0.2779 26.02 10.14 36.16 50.88 -14.72 AVG 7 0.7258 9.79 43.77 56.00 -12.23 QP 33.98 46.00 -10.74 0.7258 35.26 25.47 9.79 AVG 8 9 1.2138 34.12 9.82 43.94 56.00 -12.06 QP 10 1.2138 25.93 9.82 35.75 46.00 -10.25 AVG 1.6938 33.12 9.77 42.89 56.00 -13.11 QP 11 12 1.6938 23.42 9.77 33.19 46.00 -12.81 AVG

Power:

AC 240V/50Hz

<sup>\*:</sup>Maximum data x:Over limit !:over margin





Limit: FCC PART15\_Class B \_Main\_QP

Mode: Mode 4

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1620	43.13	10.07	53.20	65.36	-12.16	QP	
2		0.1620	29.26	10.07	39.33	55.36	-16.03	AVG	
3		0.2020	41.75	10.02	51.77	63.52	-11.75	QP	
4		0.2020	28.88	10.02	38.90	53.52	-14.62	AVG	
5		0.2819	35.58	10.11	45.69	60.76	-15.07	QP	
6		0.2819	24.80	10.11	34.91	50.76	-15.85	AVG	
7		0.7219	34.32	9.81	44.13	56.00	-11.87	QP	
8	*	0.7219	26.88	9.81	36.69	46.00	-9.31	AVG	
9		1.2099	34.80	9.84	44.64	56.00	-11.36	QP	
10		1.2099	25.83	9.84	35.67	46.00	-10.33	AVG	
11		2.6979	33.81	9.74	43.55	56.00	-12.45	QP	
12		2.6979	22.64	9.74	32.38	46.00	-13.62	AVG	

<sup>\*:</sup>Maximum data x:Over limit !:over margin



# 7.2 RADIATED SPURIOUS EMISSION

# 7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and DA 00-705

### 7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part15.205, Restricted bands

teceraing to 1 co 1 art 10:200; 1 tecerotea barrae								
MHz	MHz	MHz	GHz					
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15					
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46					
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75					
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5					
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2					
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5					
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7					
6.26775-6.26825	123-138	2200-2300	14.47-14.5					
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2					
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4					
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12					
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0					
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8					
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5					
12.57675-12.57725	322-335.4	3600-4400	(2)					
13.36-13.41								

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

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

Limits of Radiated Emission Measurement(Above 1000MHz)

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

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

- 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
- 3. Distance extrapolation factor =40log(Specific distance/ test distance)( dB); Limit line=Specific limits(dBuV) + distance extrapolation factor.

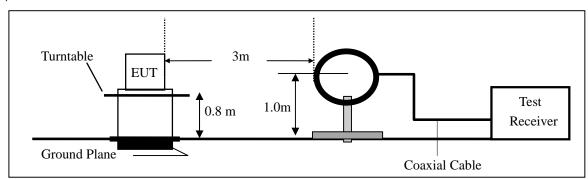
# 7.2.3 Measuring Instruments

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

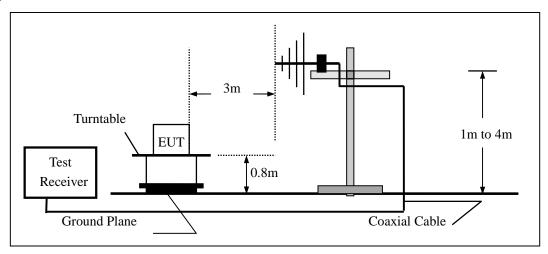


# 7.2.4 Test Configuration

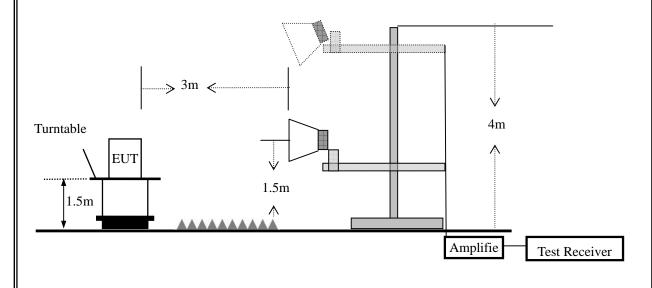
(a) For radiated emissions below 30MHz



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



(c) For radiated emissions above 1000MHz





# 7.2.5 Test Procedure

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

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

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

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

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

### Note:

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

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

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000 QP		120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
Above 1000	Average	1 MHz	10 Hz

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



# 7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	Feature Phone	Model No.:	AX3008T
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Jack Li

Freq.	Ant.Pol.	t.Pol. Emission Level(dBuV/m) Limit 3m(dBuV/m)			m(dBuV/m)	Ovei	r(dB)
(MHz)	H/V	PK	AV	PK	AV	PK	AV

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor =20log(Specific distance/ test distance)( dB); Limit line=Specific limits(dBuV) + distance extrapolation factor



Temperature:

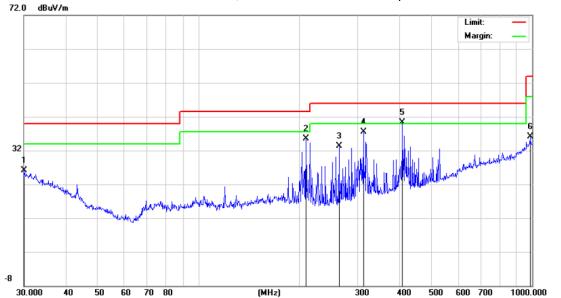
50 %

Humidity:





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



Polarization:

Power:

Horizontal AC 120V/60Hz

Limit: FCC\_PART15\_B\_03m\_QP

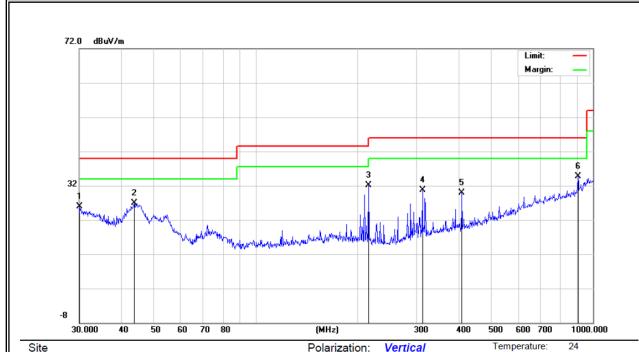
Mode: Mode 1

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		30.0000	6.59	19.57	26.16	40.00	-13.84	QP			
2		210.0482	24.55	11.02	35.57	43.50	-7.93	QP			
3		263.8190	22.10	11.25	33.35	46.00	-12.65	QP			
4		312.1792	24.43	13.05	37.48	46.00	-8.52	QP			
5	*	408.9460	25.64	14.72	40.36	46.00	-5.64	QP			
6		986.0715	8.86	27.17	36.03	54.00	-17.97	QP			

<sup>\*:</sup>Maximum data x:Over limit !:over margin





Limit: FCC\_PART15\_B\_03m\_QP

Mode: Mode1

Note:

Polarization: Vertical Temperature: 24

Power: AC 120V/60Hz Humidity: 50 %

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		30.1053	6.34	19.53	25.87	40.00	-14.13	QP			
2		43.6584	14.03	12.80	26.83	40.00	-13.17	QP			
3		216.0240	21.16	11.00	32.16	46.00	-13.84	QP			
4		312.1794	17.70	13.05	30.75	46.00	-15.25	QP			
5		408.9460	15.09	14.72	29.81	46.00	-16.19	QP			
6	*	903.3093	10.57	24.23	34.80	46.00	-11.20	QP			

<sup>\*:</sup>Maximum data x:Over limit !:over margin



Spurious Emission Above 1GHz (1GHz to 25GHz)

EUT:	Feature Phone	Model No.:	AX3008T
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Jack Li

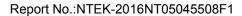
All the modulation modes have been tested, and the worst result was report as below:

							_	
Comment	Remar	Margin	Limits	Emission Level	Factor	Meter Reading	Frequency	
	k	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(dBµV)	(MHz)	
Low Channel (2402 MHz)-Above 1G								
Vertical	Pk	-18.19	74	55.81	-3.64	59.45	4809.47	
Vertical	AV	-13.93	54	40.07	-3.64	43.71	4809.47	
Vertical	Pk	-20.33	74	53.67	-0.95	54.62	7208.69	
Vertical	AV	-15.29	54	38.71	-0.95	39.66	7208.69	
Horizontal	Pk	-15.82	74	58.18	-3.64	61.82	4809.61	
Horizontal	AV	-13.98	54	40.02	-3.64	43.66	4809.61	
Horizontal	Pk	-18.64	74	55.36	-0.95	56.31	7208.89	
Horizontal	AV	-15.37	54	38.63	-0.95	39.58	7208.89	
			ove 1G	nel (2441 MHz)-Abo	Mid Chan			
Vertical	Pk	-16.36	74	57.64	-3.68	61.32	4884.695	
Vertical	AV	-14.9	54	39.1	-3.68	42.78	4884.695	
Vertical	Pk	-16.02	74	57.98	-0.82	58.8	7323.252	
Vertical	AV	-11.27	54	42.73	-0.82	43.55	7323.252	
Horizontal	Pk	-16.41	74	57.59	-3.68	61.27	4884.821	
Horizontal	AV	-15.23	54	38.77	-3.68	42.45	4884.821	
Horizontal	Pk	-16.17	74	57.83	-0.82	58.65	7323.121	
Horizontal	AV	-11.97	54	42.03	-0.82	42.85	7323.121	
			ove 1G	nel (2480 MHz)- Ab	High Chan			
Vertical	Pk	-16.41	74	57.59	-3.59	61.18	4962.67	
Vertical	AV	-12.96	54	41.04	-3.59	44.63	4962.67	
Vertical	Pk	-18.72	74	55.28	-0.68	55.96	7440.574	
Vertical	AV	-14.5	54	39.5	-0.68	40.18	7440.574	
Horizontal	Pk	-17.29	74	56.71	-3.59	60.3	4962.78	
Horizontal	AV	-15.07	54	38.93	-3.59	42.52	4962.78	
Horizontal	Pk	-18.77	74	55.23	-0.68	55.91	7440.516	
Horizontal	AV	-14.69	54	39.31	-0.68	39.99	7440.516	

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).

<sup>(2)</sup> Emission Level= Reading Level+Probe Factor +Cable Loss. (3)All other emissions more than 20dB below the limit.





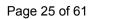


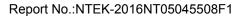
■ Spurious Emission in Band edge									
EUT:	Feature Phone	Model No.:	AX3008T						
Temperature:	20 ℃	Relative Humidity:	48%						
Test Mode:	Mode1/Mode2/Mode3	Test By:	Jack Li						

All the modulation modes have been tested and other emissions more than 20dB below the limit, the worst result was report as below:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector				
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type	Comment			
(**** 12)	1Mbps Non-hopping									
2334.84	61.72	-13.06	48.66	74	-25.34	Pk	Vertical			
2334.84	55.86	-13.06	42.8	54	-11.2	AV	Vertical			
2400	63.7	-13.06	50.64	74	-23.36	Pk	Vertical			
2400	55.28	-13.06	42.22	54	-11.78	AV	Vertical			
2350.35	62.43	-13.06	49.37	74	-24.63	Pk	Horizontal			
2350.35	55.17	-13.06	42.11	54	-11.89	AV	Horizontal			
2400	64.27	-13.06	51.21	74	-22.79	Pk	Horizontal			
2400	55.59	-13.06	42.53	54	-11.47	AV	Horizontal			
2483.5	63.36	-12.78	50.58	74	-23.42	Pk	Vertical			
2483.5	62.28	-12.78	49.5	54	-4.5	AV	Vertical			
2483.5	62.69	-12.78	49.91	74	-24.09	Pk	Horizontal			
2483.5	61.15	-12.78	48.37	54	-5.63	AV	Horizontal			
			1Mbps ho	pping						
2348.01	62.22	-13.06	49.16	74	-24.84	Pk	Vertical			
2348.01	56.26	-13.06	43.2	54	-10.8	AV	Vertical			
2400	64.28	-13.06	51.22	74	-22.78	Pk	Vertical			
2400	56.52	-13.06	43.46	54	-10.54	AV	Vertical			
2671.83	61.83	-13.06	48.77	74	-25.23	Pk	Horizontal			
2671.83	55.77	-13.06	42.71	54	-11.29	AV	Horizontal			
2400	65.26	-13.06	52.2	74	-21.8	Pk	Horizontal			
2400	56.2	-13.06	43.14	54	-10.86	AV	Horizontal			
2483.5	60.35	-12.78	47.57	74	-26.43	Pk	Vertical			
2483.5	56.07	-12.78	43.29	54	-10.71	AV	Vertical			
2483.5	60.68	-12.78	47.9	74	-26.1	Pk	Horizontal			
2483.5	55.5	-12.78	42.72	54	-11.28	AV	Horizontal			

Note: (1) All other emissions more than 20dB below the limit.







■ Spurious Emission in Restricted Bands 3260MMHz- 18000MHz									
EUT:	Feature Phone Model No.: AX3008T								
Temperature:	20 ℃	Relative Humidity:	48%						
Test Mode:	Mode1/Mode2/Mode3	Test By:	Jack Li						

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

Frequency	Frequency Meter Reading Factor (MHz) (dBµV) (dB)		Emission Level Limits (dBµV/m) (dBµV/m)		Margin	Detector	Comment	
(MHz)					(dB)	Туре		
1Mbps Non-hopping								
3260	61.56	-13.06	48.5	74	-25.50	Pk	Vertical	
3260	55.7	-13.06	42.64	54	-11.36	AV	Vertical	
3260	62.27	-13.06	49.21	74	-24.79	Pk	Horizontal	
3260	55.01	-13.06	41.95	54	-12.05	AV	Horizontal	
3332	63.2	-12.78	50.42	74	-23.58	Pk	Vertical	
3332	52.12	-12.78	39.34	54	-14.66	AV	Vertical	
3332	62.53	-12.78	49.75	74	-24.25	Pk	Horizontal	
3332	53.99	-12.78	41.21	54	-12.79	AV	Horizontal	
17797	66.1	-12.24	53.86	74	-20.14	Pk	Vertical	
17797	52.6	-12.24	40.36	54	-13.64	AV	Vertical	
17788	65.61	-12.24	53.37	74	-20.63	Pk	Horizontal	
17788	51.79	-12.24	39.55	54	-14.45	AV	Horizontal	
			1Mbps ho	pping				
3260	3260 62.06 -13.06		49	74	-25.00	Pk	Vertical	
3260	56.1	-13.06	43.04	54	-10.96	AV	Vertical	
3260	61.67	-13.06	48.61	74	-25.39	Pk	Horizontal	
3260	55.61	-13.06	42.55	54	-11.45	AV	Horizontal	
3332	60.19	-12.78	47.41	74	-26.59	Pk	Vertical	
3332	55.91	-12.78	43.13	54	-10.87	AV	Vertical	
3332	60.52	-12.78	47.74	74	-26.26	Pk	Horizontal	
3332	55.34	-12.78	42.56	54	-11.44	AV	Horizontal	
17785	65.19	-12.24	52.95	74	-21.05	Pk	Vertical	
17785	53.51	-12.24	41.27	54	-12.73	AV	Vertical	
17797	64.76	-12.24	52.52	74	-21.48	Pk	Horizontal	
17797	53.88	-12.24	41.64	54	-12.36	AV	Horizontal	

Note: (1) All other emissions more than 20dB below the limit.



# 7.3 NUMBER OF HOPPING CHANNEL

# 7.3.1 Applicable Standard

According to FCC Part 15.247(a)(1) (iii)and DA 00-705

# 7.3.2 Conformance Limit

Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels.

# 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

The testing follows ANSI C63.10-2013 clause 7.8.3

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 to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW ≥ 1% of the span

 $VBW \geq RBW$ 

Sweep = auto

Detector function = peak

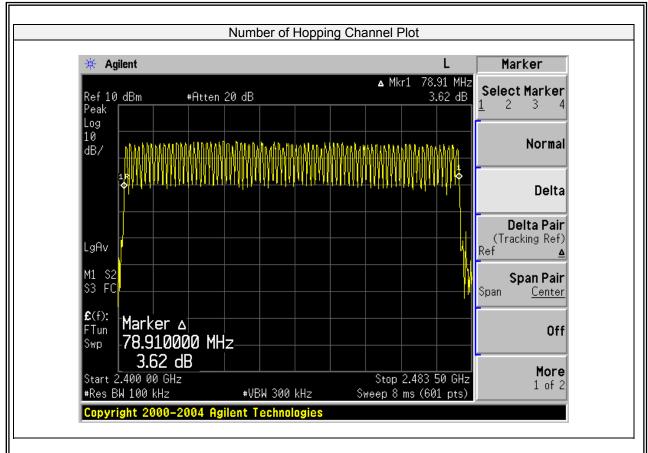
Trace = max hold

# 7.3.6 Test Results

EUT:	Feature Phone	Model No.:	AX3008T
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Jack Li

Number of Hopping (Channel)	Adaptive Frequency hopping (Channel)	limit	Verdict	
79	20	≥15	Pass	







# 7.4 HOPPING CHANNEL SEPARATION MEASUREMENT

# 7.4.1 Applicable Standard

According to FCC Part 15.247(a)(1) and DA 00-705

# 7.4.2 Conformance Limit

Frequency hopping systems operating in the 2400-2483.5MHz band shall have hopping channel carrier frequencies that are separated by 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

# 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

The testing follows ANSI C63.10-2013 clause 7.8.2

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 to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = Measurement Bandwidth or Channel Separation

. RBW ≥ 30KHz

 $VBW \ge 3*RBW$ 

Sweep = auto

Detector function = peak

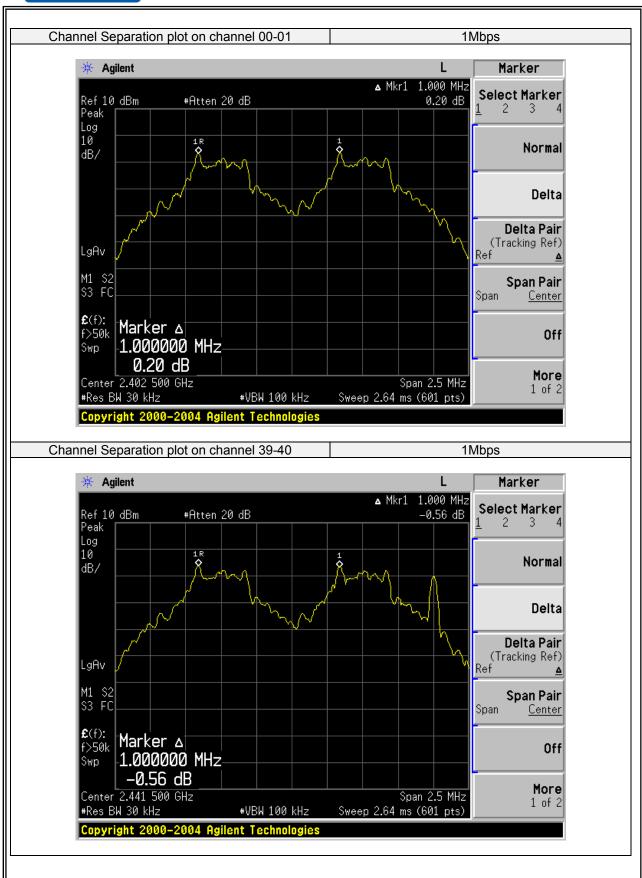
Trace = max hold

# 7.4.6 Test Results

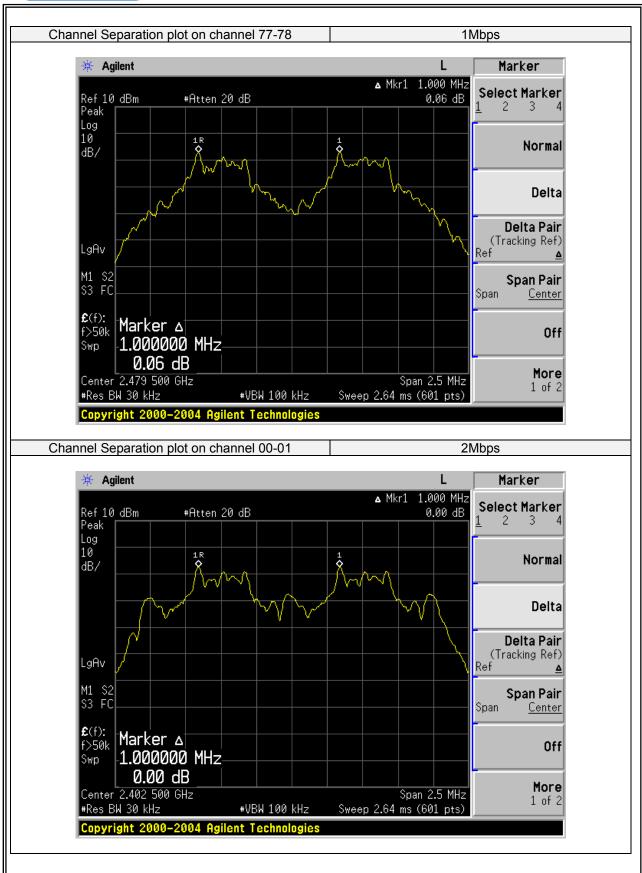
EUT:	Feature Phone	Model No.:	AX3008T
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Jack Li

Modulation	Channel	Channel	Measurement	Limit		
Mode	Number	Frequency	Bandwidth	(kHz)		Verdict
		(MHz)	(kHz)	. ,		
	0	2402	1000.00	>823.745	20dB BW	PASS
GFSK	39	2441	1000.00	>830.700	20dB BW	PASS
	78	2480	1000.00	>831.851	20dB BW	PASS
	0	2402	1000.00	>744.667	2/3 of 20dB BW	PASS
π/4-DQPSK	39	2441	1000.00	>742.667	2/3 of 20dB BW	PASS
	78	2480	1000.00	>747.333	2/3 of 20dB BW	PASS
	0	2402	1000.00	>766.667	2/3 of 20dB BW	PASS
8DPSK	39	2441	1000.00	>756.000	2/3 of 20dB BW	PASS
	78	2480	1000.00	>766.667	2/3 of 20dB BW	PASS

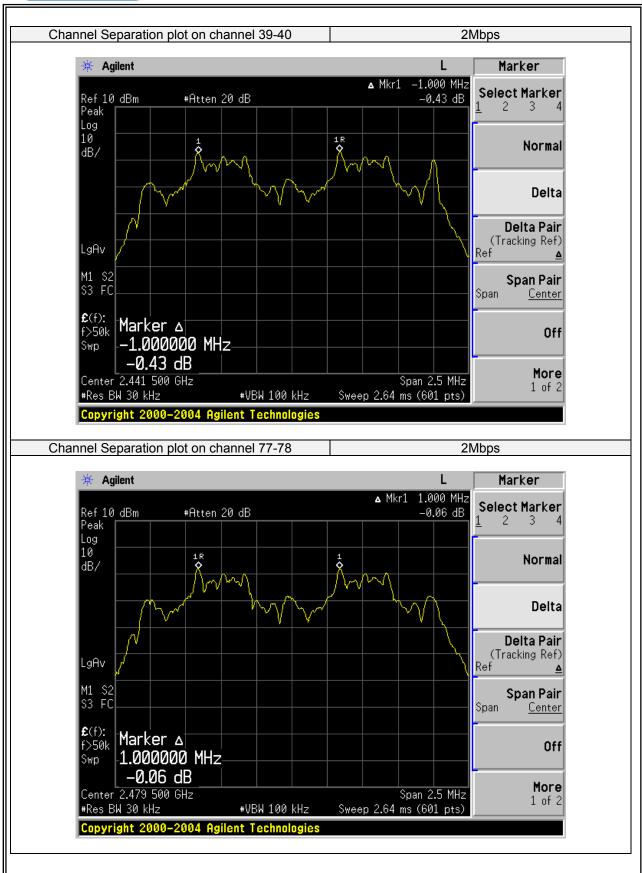




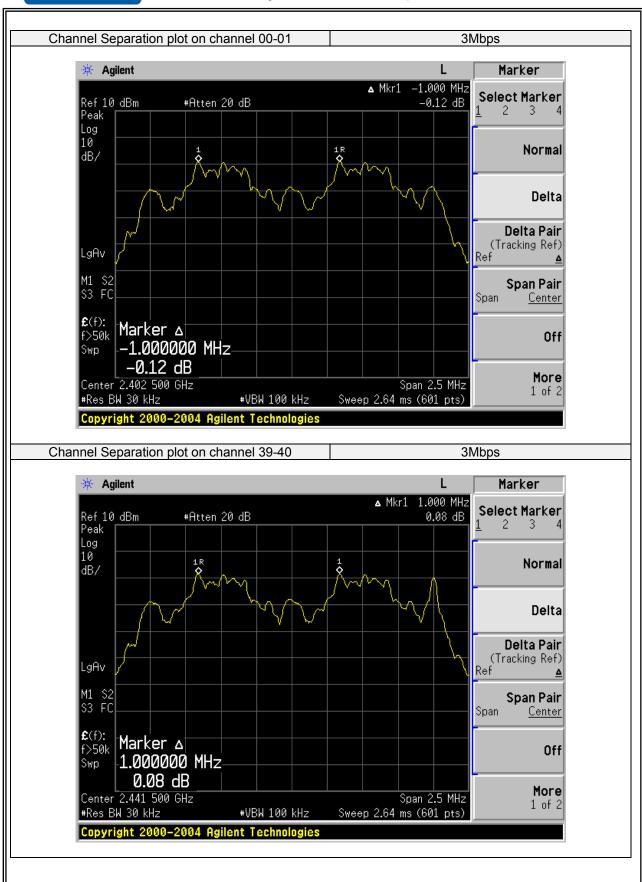




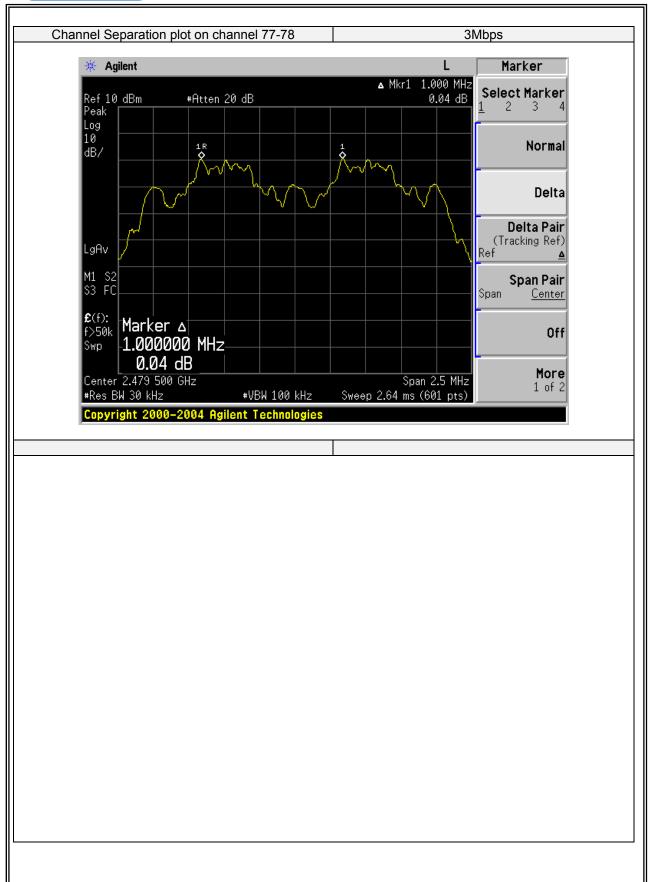














# 7.5 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

# 7.5.1 Applicable Standard

According to FCC Part 15.247(a)(1)(iii) and DA 00-705

### 7.5.2 Conformance Limit

The average time of occupancy on any channel shall not be greater than 0.4s within a period of 0.4s multiplied by the number of hopping channels employed.

# 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 testing follows ANSI C63.10-2013 clause 7.8.4

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 to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = zero span, centered on a hopping channel

 $RBW \ge 1MHz$ 

 $\mathsf{VBW} \geq \mathsf{RBW}$ 

Sweep = as necessary to capture the entire dwell time per hopping channel

Detector function = peak

Trace = max hold

Measure the maximum time duration of one single pulse.

Set the EUT for DH5, DH3 and DH1 packet transmitting.

Measure the maximum time duration of one single pulse.



# 7.5.6 Test Results

EUT:	Feature Phone	Model No.:	AX3008T
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Jack Li

Modulation Mode	Channel Number	Packet type	Mode	Hops Over Occupancy Time (ms)	Pulse width (ms)	dwell time (ms)	Limit (ms)	Verdict
	39	DH1	Normal	320.00	0.157	50.240	<400	PASS
	39	וווט	AFH	160.00	0.157	25.120	<400	PASS
GFSK	39	DH3	Normal	160.00	1.680	268.800	<400	PASS
GISK	39	סווס	AFH	80.00	1.680	134.400	<400	PASS
	39	DH5	Normal	106.67	1.785	190.406	<400	PASS
	39	טחט	AFH	53.33	1.785	95.194	<400	PASS
	39	20114	Normal	320.00	0.432	138.240	<400	PASS
	39	2DH1	AFH	160.00	0.432	69.120	<400	PASS
π/4-DQPSK	39	2DH3	Normal	160.00	0.980	156.800	<400	PASS
II/4-DQF3K	39		AFH	80.00	0.980	78.400	<400	PASS
	39 39		Normal	106.67	2.928	312.330	<400	PASS
		20113	AFH	53.33	2.928	156.150	<400	PASS
	39	3DU1	Normal	320.00	0.432	138.240	<400	PASS
	39	3DH1	AFH	160.00	0.432	69.120	<400	PASS
8DPSK	39	3DH3	Normal	160.00	1.680	268.800	<400	PASS
	39	งบทง	AFH	80.00	1.680	134.400	<400	PASS
	39	3DH5	Normal	106.67	2.590	276.275	<400	PASS
	39	วบทอ	AFH	53.33	2.590	138.125	<400	PASS

### Note:

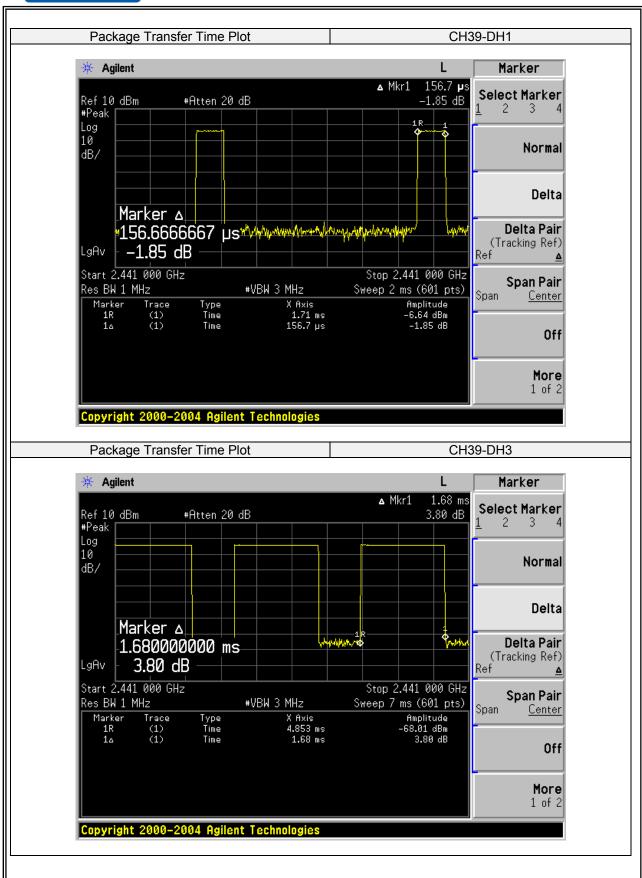
A Period Time = (channel number)\*0.4

DH1 Time Slot: Reading \* (1600/2)\*31.6/(channel number) DH3 Time Slot: Reading \* (1600/4)\*31.6/(channel number) DH5 Time Slot: Reading \* (1600/6)\*31.6/(channel number)

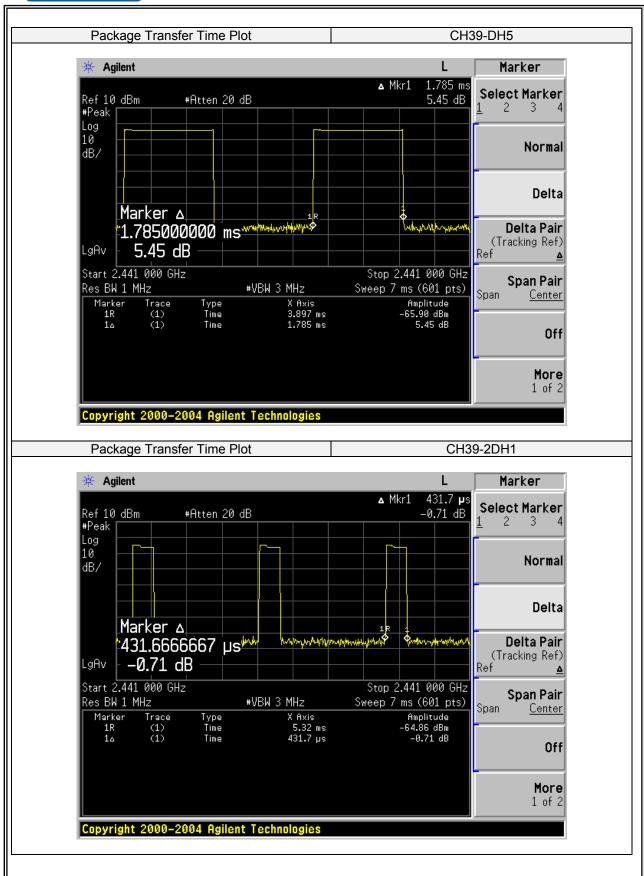
# For Example:

- 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit  $(0.4 \times 79)$  (s), Hops Over Occupancy Time comes to  $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$  hops.
- In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels.
   With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit (0.4 x 20) (s), Hops Over Occupancy Time comes to (800 / 6 / 20) x (0.4 x 20) = 53.33 hops.
- 3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

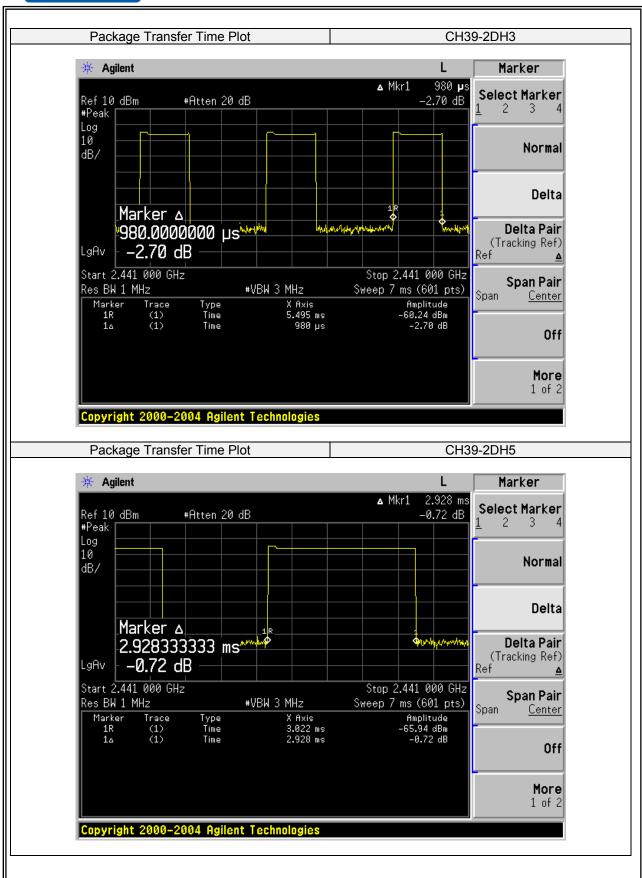




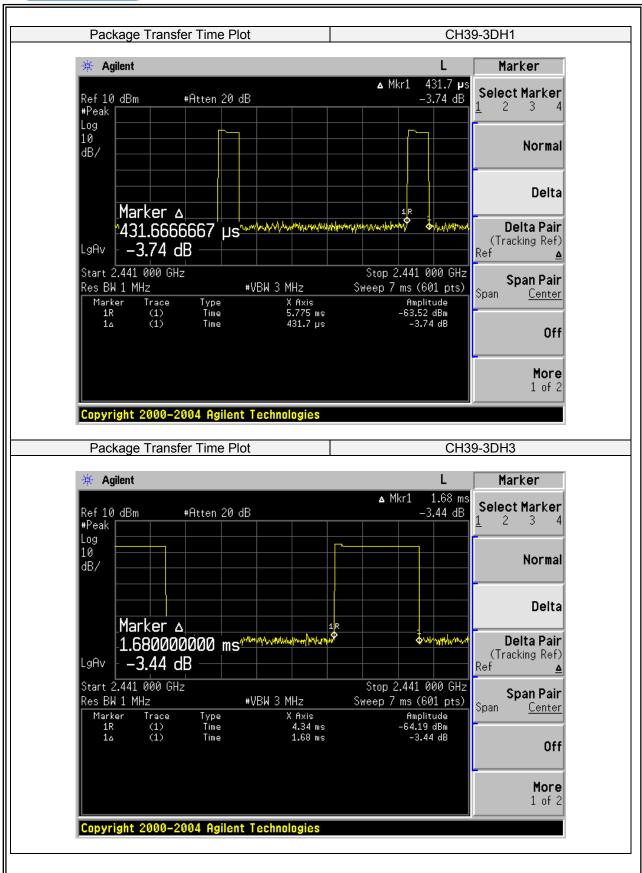




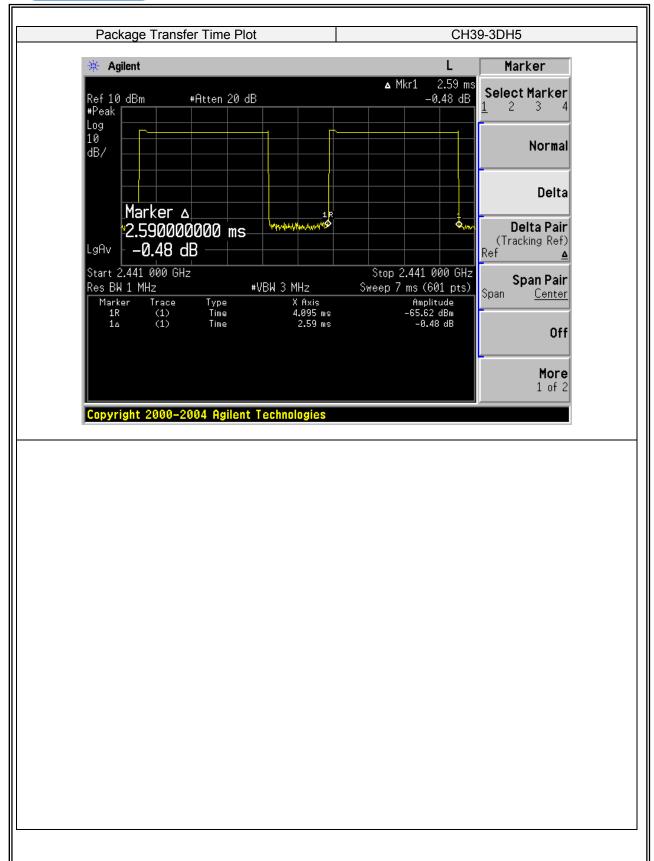














## 7.6 20DB BANDWIDTH TEST

## 7.6.1 Applicable Standard

According to FCC Part 15.247(a)(1) and DA 00-705

## 7.6.2 Conformance Limit

No limit requirement.

## 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 ANSI C63.10-2013 clause 6.9.2

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 to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW ≥ 1% of the 20 dB bandwidth

VBW ≥ RBW Sweep = auto

Detector function = peak

Trace = max hold

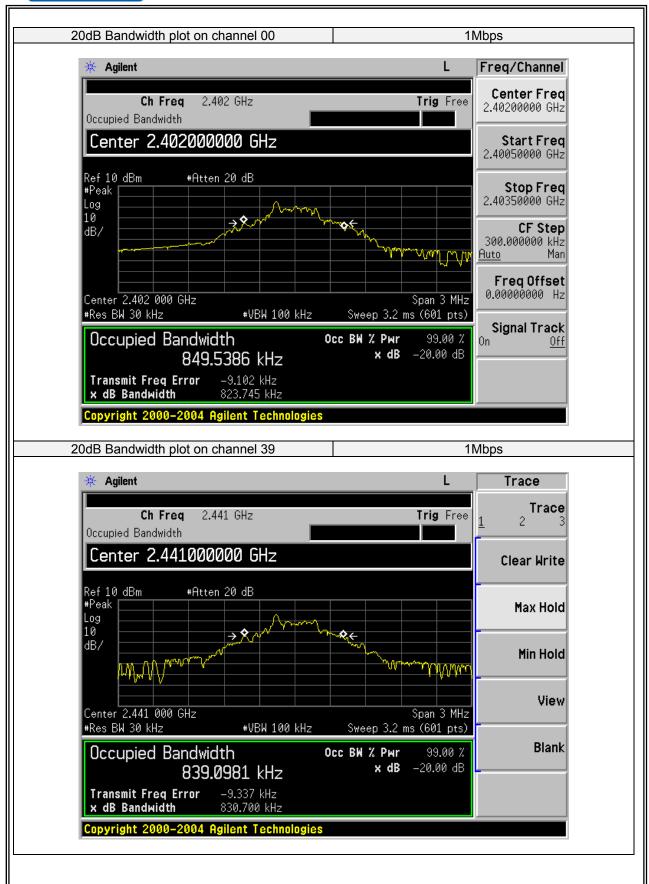
## 7.6.6 Test Results

EUT:	Feature Phone	Model No.:	AX3008T
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Jack Li

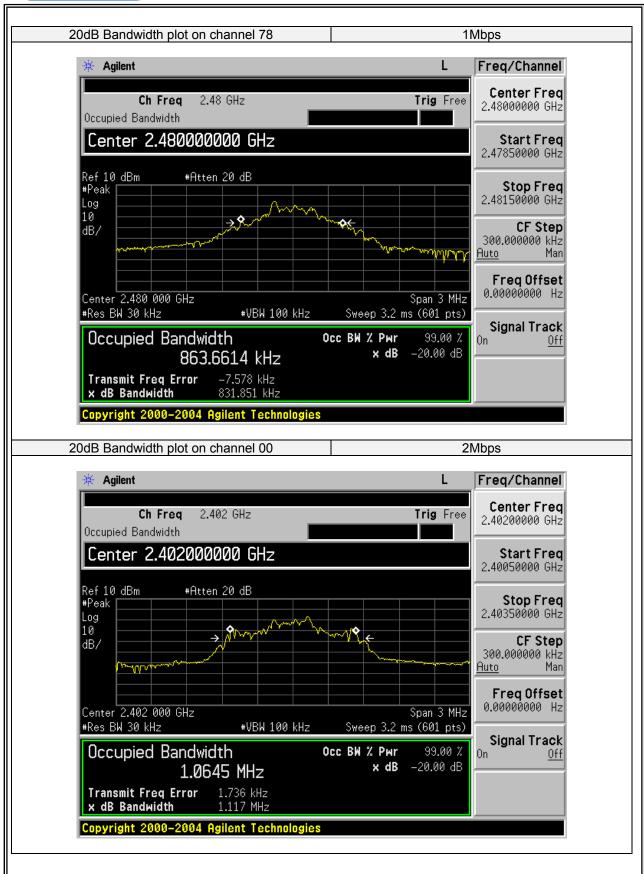
i regi Channei i	Frequency	Measurement	Limit	Verdict		
	(MHz)	Bandwidth (KHz)	(kHz)	verdict		
		1Mbps				
00	2402	823.745	N/A	PASS		
39	2441	830.700	N/A	PASS		
78	2480	831.851	N/A	PASS		
	2Mbps					
00	2402	1117.000	N/A	PASS		
39	2441	1114.000	N/A	PASS		
78	2480	1121.000	N/A	PASS		
3Mbps						
00	2402	1150.000	N/A	PASS		
39	2441	1134.000	N/A	PASS		
78	2480	1150.000	N/A	PASS		
Nete: N/A (Net Applicable)						

Note: N/A (Not Applicable)

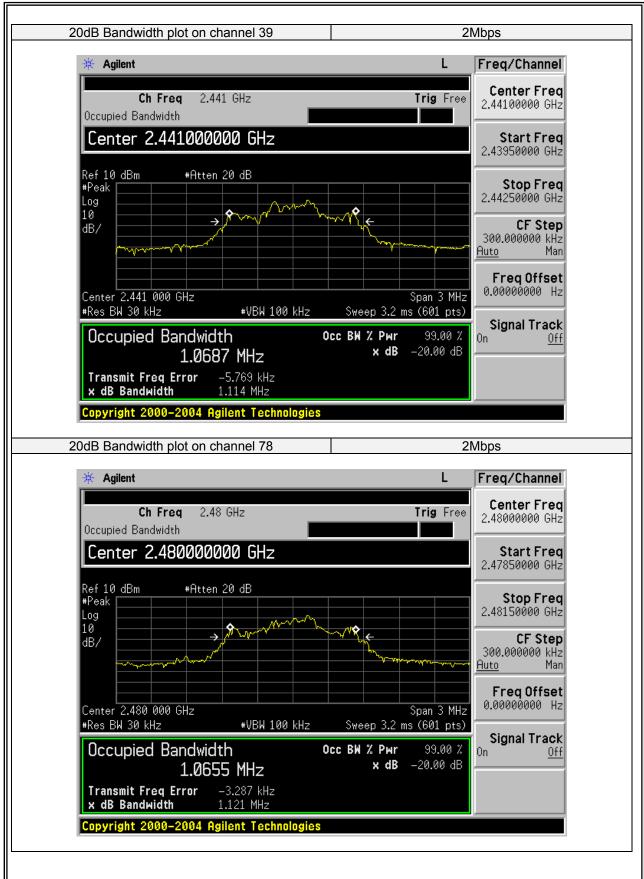




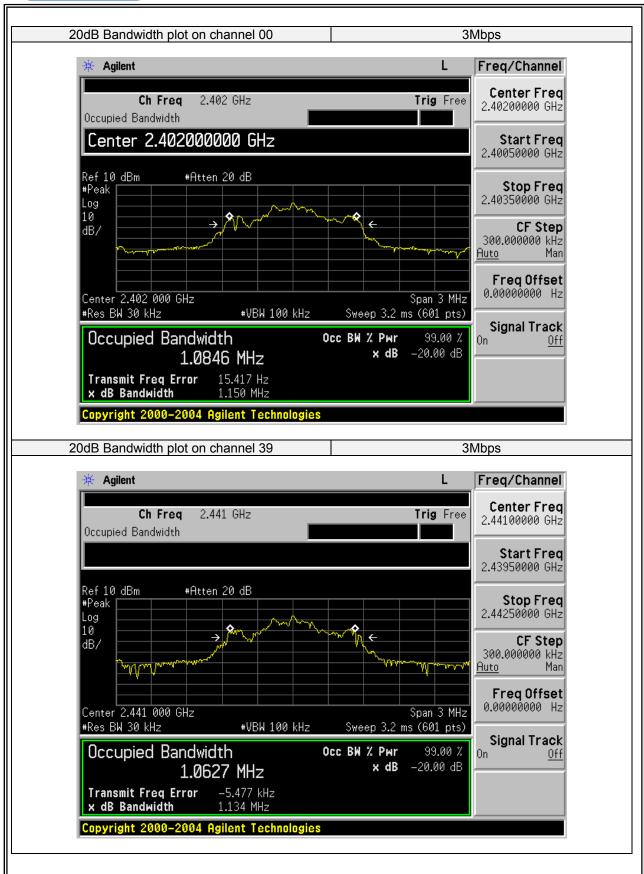




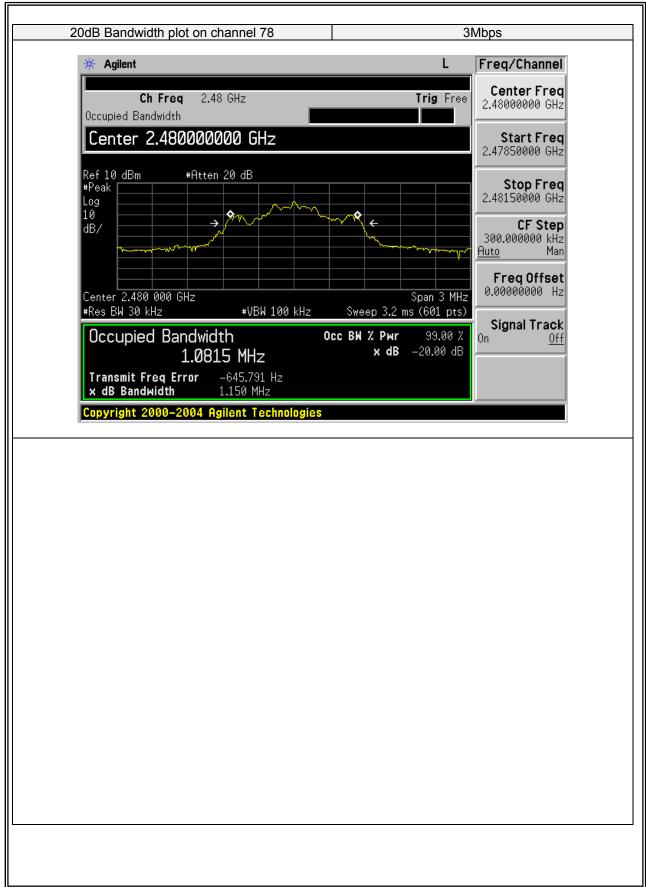














### 7.7 PEAK OUTPUT POWER

## 7.7.1 Applicable Standard

According to FCC Part 15.247(b)(1) and DA 00-705

#### 7.7.2 Conformance Limit

The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts.

### 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 ANSI C63.10-2013 clause 7.8.5.

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 to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW  $\geq$  the 20 dB bandwidth of the emission being measured

 $VBW \geq RBW$ 

Sweep = auto

Detector function = peak

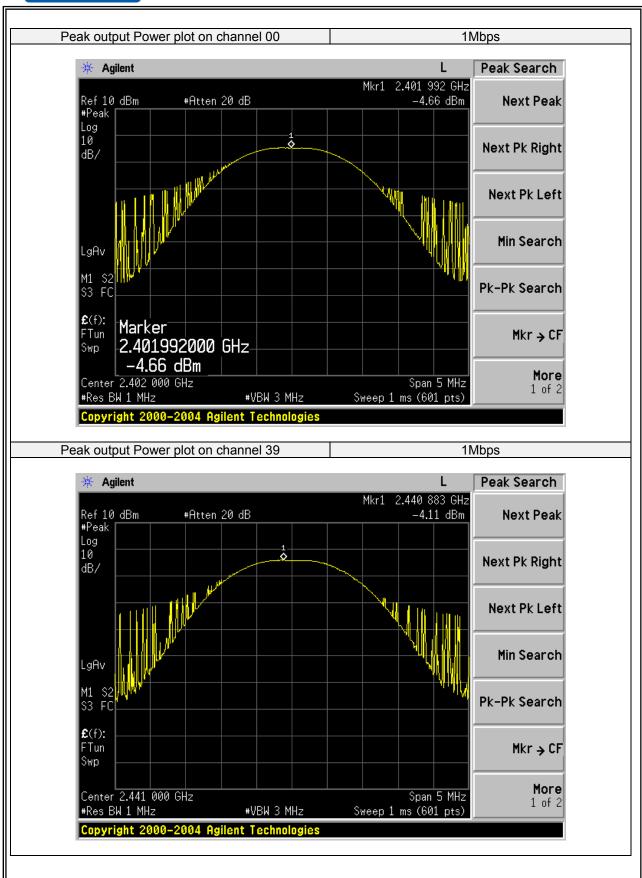
Trace = max hold

## 7.7.6 Test Results

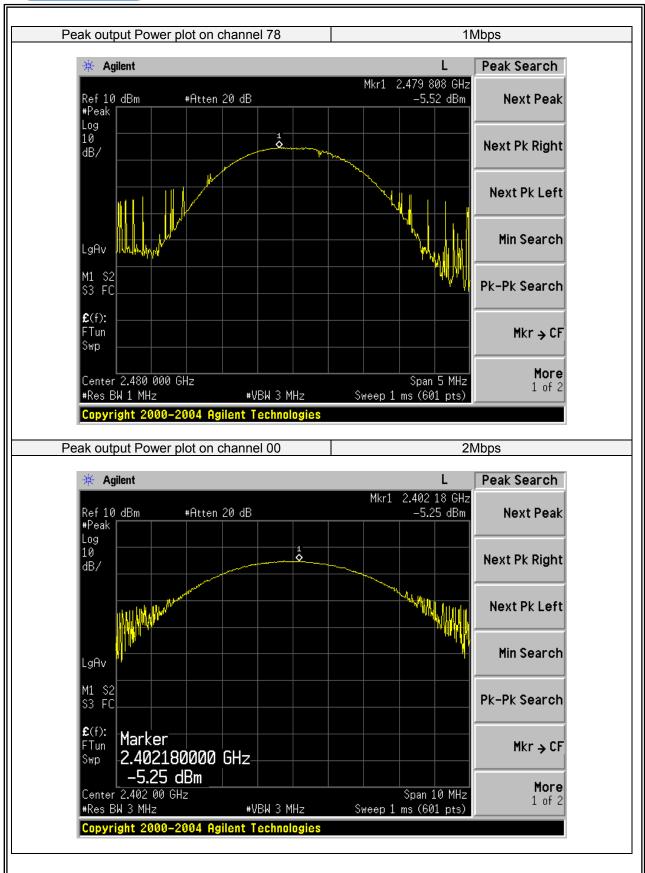
EUT:	Feature Phone	Model No.:	AX3008T
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Jack Li

Test Channel	Frequency (MHz)	Power Setting	Peak Output Power (dBm)	LIMIT (dBm)	Verdict	
			1Mbps			
00	2402	Default	-4.66	30	PASS	
39	2441	Default	-4.11	30	PASS	
78	2480	Default	-5.52	30	PASS	
	2Mbps					
00	2402	Default	-5.25	20.97	PASS	
39	2441	Default	-4.65	20.97	PASS	
78	2480	Default	-5.99	20.97	PASS	
	3Mbps					
00	2402	Default	-5.35	20.97	PASS	
39	2441	Default	-4.72	20.97	PASS	
78	2480	Default	-6.13	20.97	PASS	

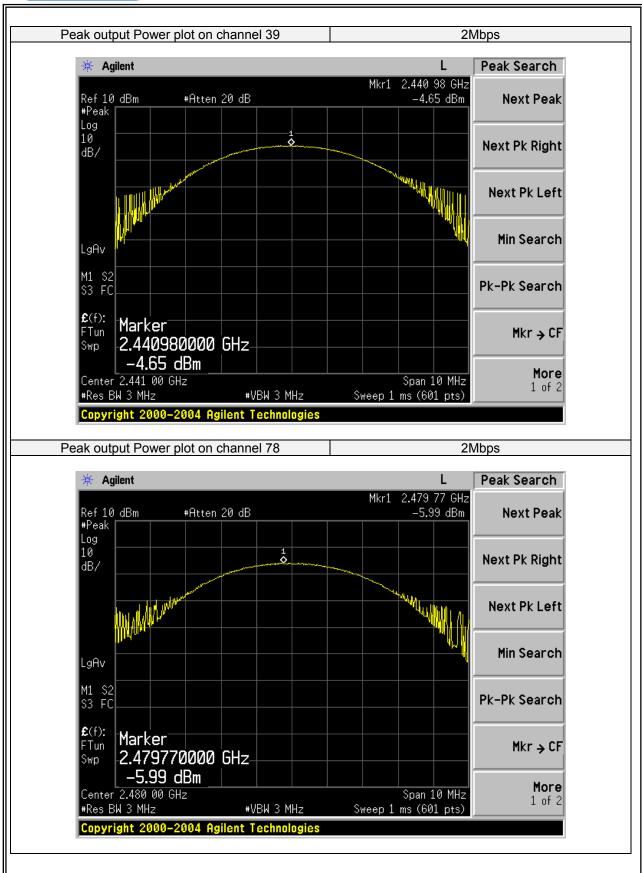




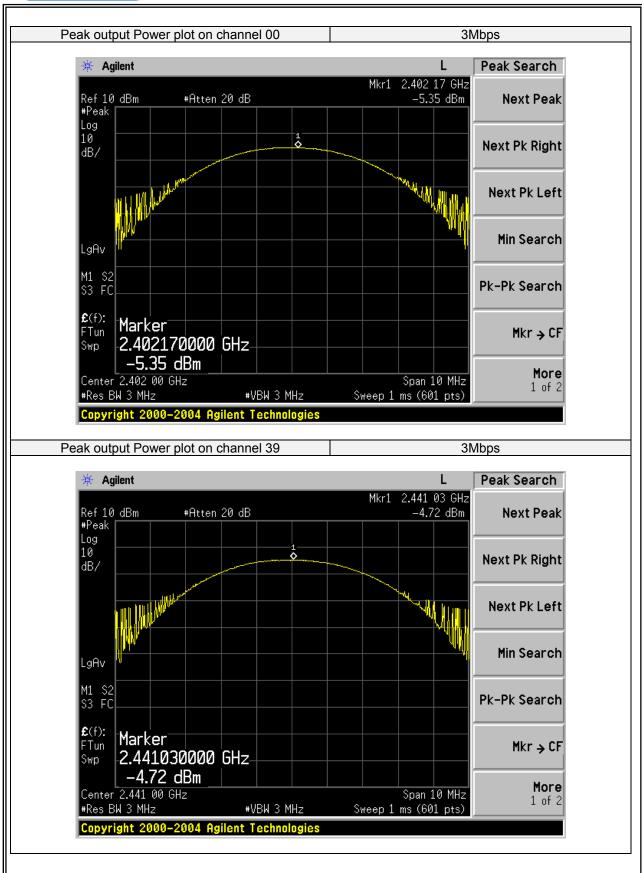




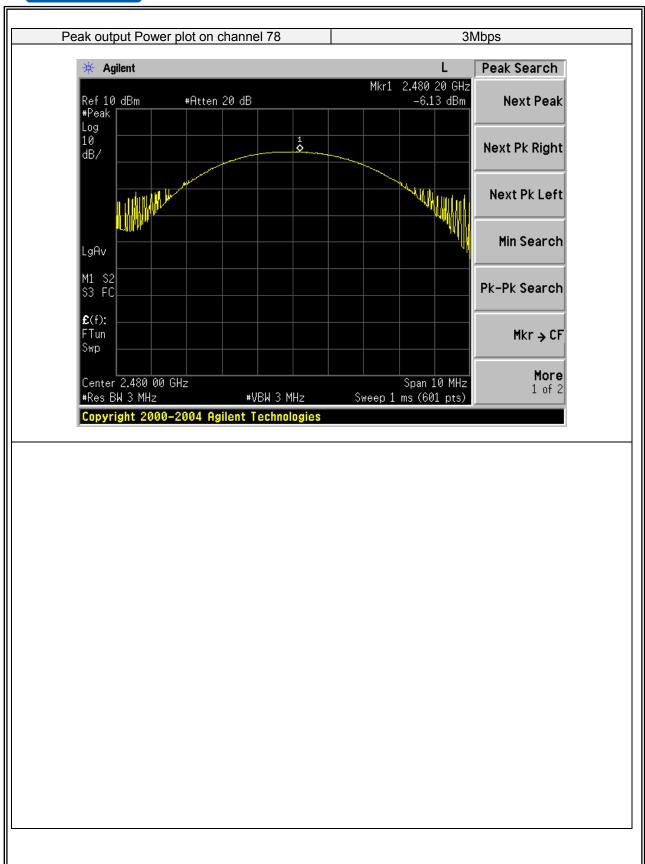














### 7.8 CONDUCTED BAND EDGE MEASUREMENT

# 7.8.1 Applicable Standard

According to FCC Part 15.247(d) and DA 00-705

#### 7.8.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### 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 ANSI C63.10-2013 clause 7.8.6.

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 to the maximum power setting and enable the EUT transmit continuously.

The EUT must have its hopping function enabled.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW = 100KHz

VBW = 300KHz

Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

Repeat above procedures until all measured frequencies were complete.



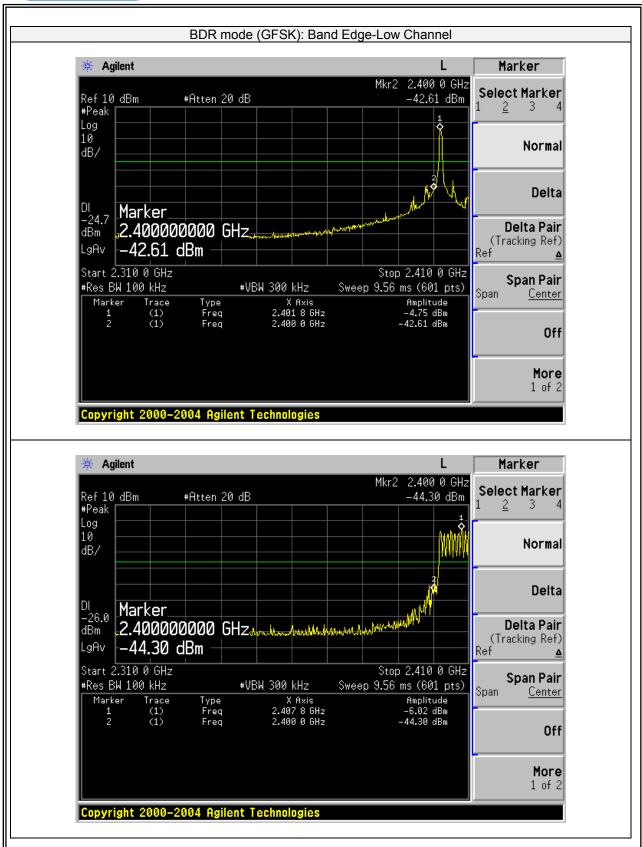
# 7.8.6 Test Results

EUT:	Feature Phone	Model No.:	AX3008T
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	Mode1/Mode2/Mode3	Test By:	Jack Li

Frequency Band	Delta Peak to band emission(dBc)	>Limit(dBc)	Verdict				
1Mbps Non-hopping							
2400	37.86	20	Pass				
2483.5	30.20	20	Pass				
2Mbps Non-hopping							
2400	37.28	20	Pass				
2483.5	28.40	20	Pass				
	3Mbps Non-hopping						
2400	35.43	20	Pass				
2483.5	39.96	20	Pass				
1Mbps hopping							
2400	38.28	20	Pass				
2483.5	37.87	20	Pass				
2Mbps hopping							
2400	42.01	20	Pass				
2483.5	37.43	20	Pass				
3Mbps hopping							
2400	40.24	20	Pass				
2483.5	51.98	20	Pass				

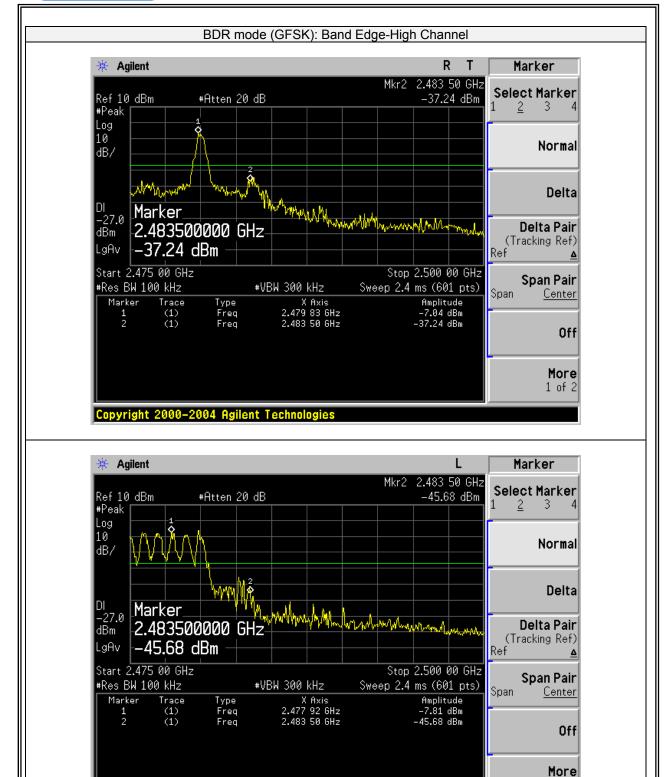
Note: Hopping enabled and disabled have evaluated,and the wortest data was reported





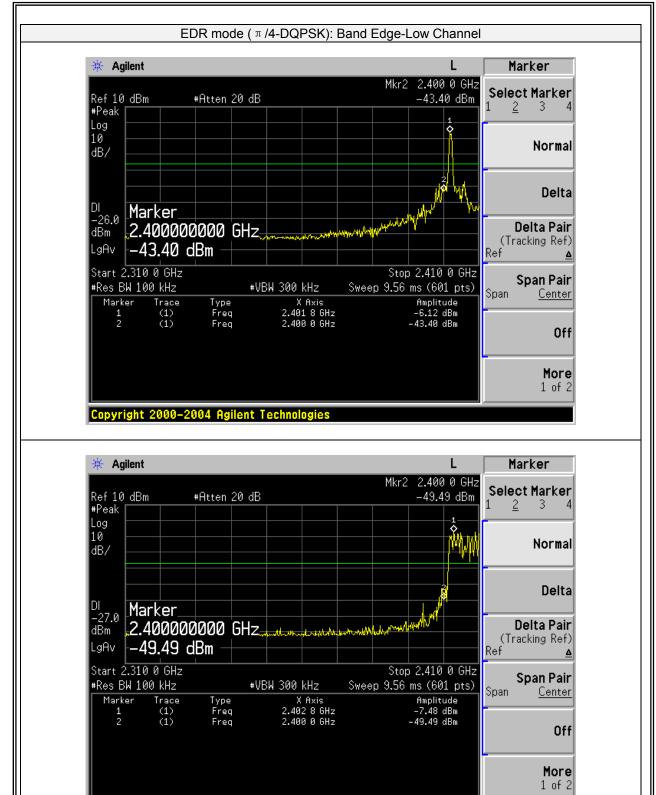
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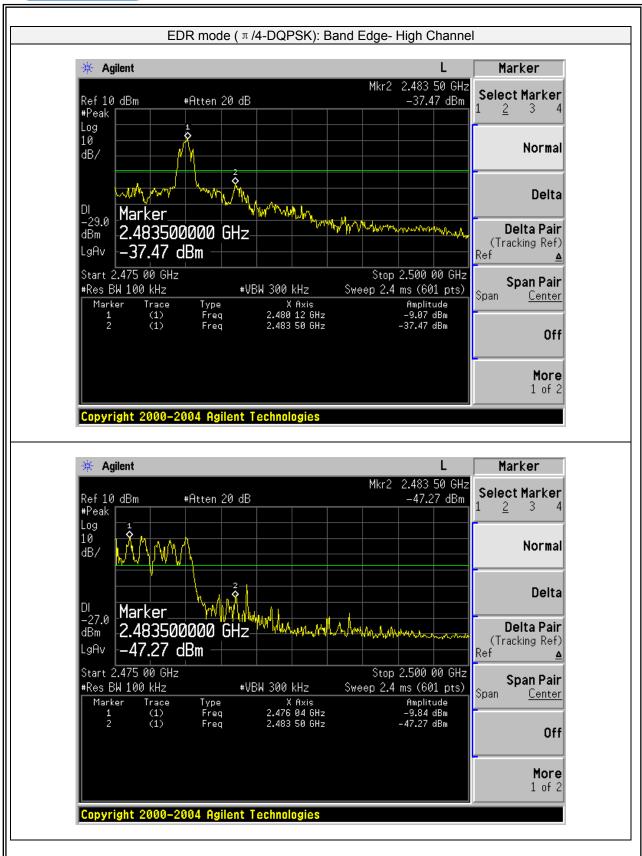
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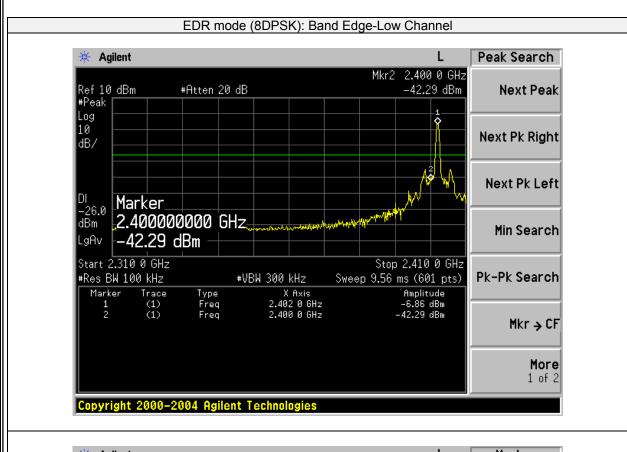


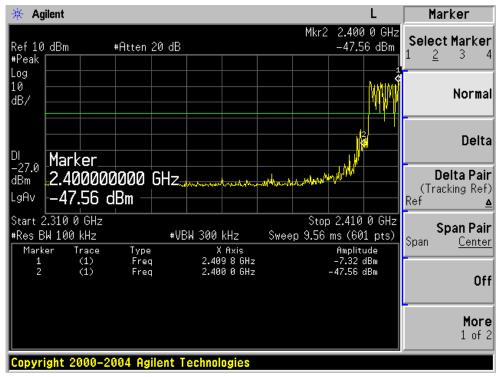
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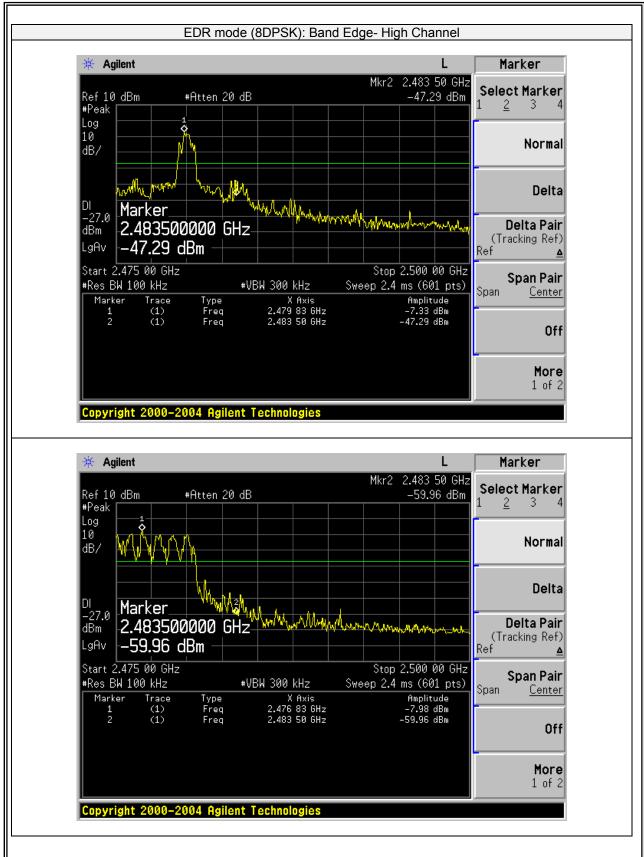














## 7.9 ANTENNA APPLICATION

## 7.9.1 Antenna 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 partyshall be used with the device.

## 7.9.2 Result

The EUT antenna is permanent attached antenna. It comply with the standard requirement.

**END OF REPORT**