

# **FCC Test Report**

Report No.: NTEK-2014NT0429649F5

FCC ID: 2ABGW-AS0109K

Product: MID

Trade Name: ARTAB

Model Number: AS0109K

Serial Model: AS8001G

Report No.: NTEK-2014NT0429649F5

#### Prepared for

Hong Kong Topsky Technology Limited.

Unit 5, 27/F., Richmond Commercial Building,109 Argyle Street, Mongkok, Kowloon,Hong Kong

## Prepared by

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Applicant's name .....: Hong Kong Topsky Technology Limited.



# **TEST RESULT CERTIFICATION**

Address ...... Unit 5, 27/F., Richmond Commercial Building,109 Argyle Street, Mongkok, Kowloon,Hong Kong

Report No.: NTEK-2014NT0429649F5

Manufacturer's Name:	.: Hong Kong Topsky Technology Limited.					
Address:		7/F., Richmond Commercial Building,109 Argyle Street, , Kowloon,Hong Kong				
Product description						
Product name:	MID					
Model and/or type reference :	AS0109K					
Standards:	FCC Part ANSI C63	15B:2012 3.4:2003				
	n complian	sted by NTEK, and the test results show that the ce with Part 15 of FCC Rules. And it is applicable only to				
•	-	t in full, without the written approval of NTEK, this TEK, personal only, and shall be noted in the revision of				
Date of Test	······································					
Date (s) of performance of tests	····::	29 Apr. 2014 ~13 May 2014				
Date of Issue	······································	13 May 2014				
Test Result	:	Pass				
Testing Engine	eer :	opple Huong				
		(Apple Huang)				
Technical Man	ager :	Brown Ln				
		(Brown Lu)				
Authorized Sig	natory:	(Bill Yao)				
		(5111 100)				



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# 1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission							
Standard	d Test Item Limit Judgment R						
FCC Part15B:2012	Conducted Emission	Class B	PASS				
ANSI C63.4: 2003	Radiated Emission	Class B	PASS				

## NOTE:

- (1) 'N/A' denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.



1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

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

Report No.: NTEK-2014NT0429649F5

FCC Registration Number:238937; IC Registration Number:9270A-1

CNAS Registration Number:L5516

## 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 %.

#### A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

#### B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~6GHz	5.0	



# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Equipment	MID		
Model Name	AS0109K		
Additional Model Number(s)	AS8001G		
Model Difference	All the model are the same circuit and RF module, except the model name and colour.		
Product Description	The EUT is a MID.  Connecting I/O port: USB  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.		
Power Source	DC Voltage		
Adapter	Model:ZFXPA02000050US Input: 100-240V~,50/60Hz,0.5AMAX Output: 5.0V===, 2A		
Battery	DC 3.7V, 3800mAh		



2.1.1 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.

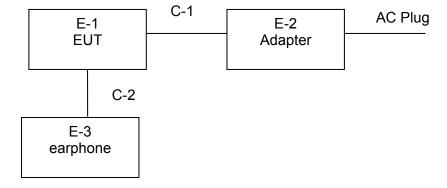
Pretest Mode	Description
Mode 1 Charging and playing	
Mode 2	Downloading

For Conducted Test				
Final Test Mode Description				
Mode 1 Charging and playing				
Mode 2	Downloading			

For Radiated Test				
Final Test Mode Description				
Mode 1 Charging and playing				
Mode 2	Downloading			



# 2.2 DESCRIPTION OF TEST SETUP





2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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	Brand	Model/Type No.	Series No.	Note
E-1	MID	ARTAB	AS0109K	N/A	EUT
E-2	ADAPTER	N/A	ZFXPA02000050US	N/A	
E-3	earphone	N/A	2688	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.8m	
C-2	NO	NO	1.2m	

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



# 2.4 MEASUREMENT INSTRUMENTS LIST

# 2.4.1 CONDUCTED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibra tion period
1	LISN	R&S	ENV216	101313	Jul. 06, 2013	Jul. 05, 2014	1 year
2	LISN	SCHWARZBE CK	NNLK 8129	8129245	Dec. 25, 2013	Dec. 24, 2014	1 year
3	Pulse Limiter	SCHWARZBE CK	VTSD 9561F	9716	Dec. 25, 2013	Dec. 24, 2014	1 year
4	50Ω Switch	ANRITSU CORP	MP59B	6200983704	Jul. 06, 2013	Jul. 05, 2014	1 year
5	Test Cable	N/A	C01	N/A	Jul. 06, 2013	Jul. 05, 2014	1 year
6	Test Cable	N/A	C02	N/A	Jul. 06, 2013	Jul. 05, 2014	1 year
7	Test Cable	N/A	C03	N/A	Jul. 06, 2013	Jul. 05, 2014	1 year
8	EMI Test Receiver	R&S	ESCI	101160	Jul. 06, 2013	Jul. 05, 2014	1 year
9	Passive Voltage Probe	ESH2-Z3	R&S	100196	Jul. 06, 2013	Jul. 05, 2014	1 year
10	Triple-Loop Antenna	EVERFINE	LIA-2	11020003	Jul. 06, 2013	Jul. 05, 2014	1 year
11	Absorbing Clamp	R&S	MDS-21	100423	Jul. 08, 2013	Jul. 07, 2014	1 year

# 2.4.2 RADIATED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibra tion period
1	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06, 2013	Jul. 05, 2014	1 year
2	Test Cable	N/A	R-01	N/A	Dec. 25, 2013	Dec. 24, 2014	1 year
3	Test Cable	N/A	R-02	N/A	Dec. 25, 2013	Dec. 24, 2014	1 year
4	EMI Test Receiver	R&S	ESCI-7	101318	Jul. 06, 2013	Jul. 05, 2014	1 year
5	Antenna Mast	EM	SC100_1	N/A	N/A	N/A	N/A
6	Turn Table	EM	SC100	060531	N/A	N/A	N/A
7	50Ω Switch	Anritsu Corp	MP59B	6200983705	Jul. 06, 2013	Jul. 05, 2014	1 year
8	Spectrum Analyzer	Aglient	E4407B	MY45108040	Jul. 06, 2013	Jul. 05, 2014	1 year
9	Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06, 2013	Jul. 05, 2014	1 year
10	Amplifier	EM	EM-30180	060538	Jul. 06, 2013	Jul. 05, 2014	1 year



## 3. EMC EMISSION TEST

## 3.1 CONDUCTED EMISSION MEASUREMENT

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

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

#### 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

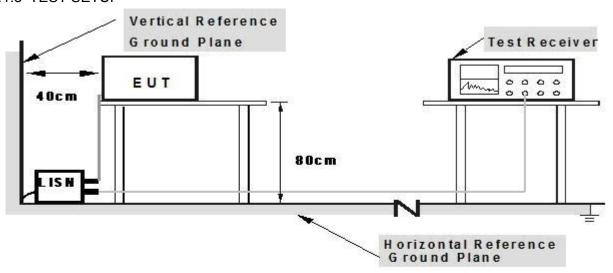
Receiver Parameters	Setting		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		



#### 3.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 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.
- 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 TEST SETUP



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

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

#### 3.1.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.



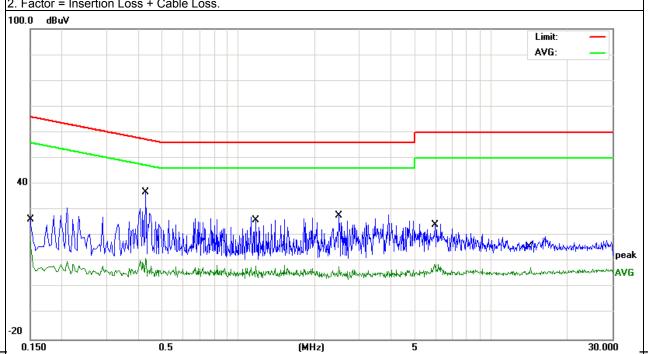
3.1.5 TEST RESULTS

EUT:	MID	Model Name. :	AS0109K			
Temperature :	<b>26</b> ℃	Relative Humidity:	54%			
Pressure :	1010hPa	Test Date :	2014-05-12			
Test Mode:	Mode 1	Phase :	L			
Test Voltage :	DC 5V From Adapter AC 120V/60Hz					

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Dotootor Typo
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.1500	15.01	9.63	24.64	65.99	-41.35	QP
0.1500	8.12	9.63	17.75	55.99	-38.24	AVG
0.4300	15.62	9.51	25.13	57.25	-32.12	QP
0.4300	1.98	9.51	11.49	47.25	-35.76	AVG
1.1660	8.16	9.53	17.69	56.00	-38.31	QP
1.1660	-1.32	9.53	8.21	46.00	-37.79	AVG
2.4980	18.23	9.56	27.79	56.00	-28.21	QP
2.4980	-1.44	9.56	8.12	46.00	-37.88	AVG
5.9539	14.71	9.64	24.35	60.00	-35.65	QP
5.9539	-0.60	9.64	9.04	50.00	-40.96	AVG
14.2139	5.73	9.82	15.55	60.00	-44.45	QP
14.2139	-2.20	9.82	7.62	50.00	-42.38	AVG

## Remark:

<sup>2.</sup> Factor = Insertion Loss + Cable Loss.



<sup>1.</sup> All readings are Quasi-Peak and Average values.



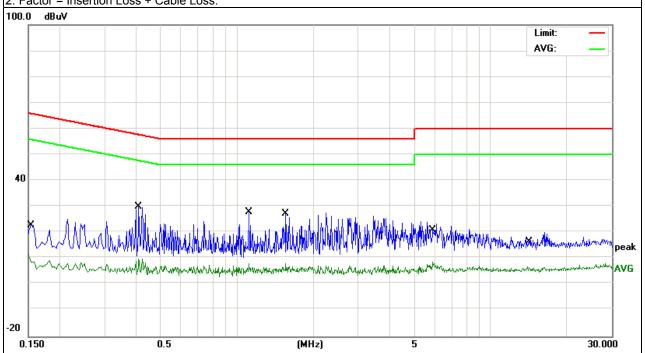
		_			
EUT:	MID	Model Name. :	AS0109K		
Temperature :	<b>26</b> ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date :	2014-05-12		
Test Mode:	Mode 1	Phase :	N		
Test Voltage :	Voltage : DC 5V From Adapter AC 120V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Detector Type	
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type	
0.1500	10.90	9.63	20.53	65.99	-45.46	QP	
0.1500	2.05	9.63	11.68	55.99	-44.31	AVG	
0.4100	12.93	9.50	22.43	57.65	-35.22	QP	
0.4100	0.45	9.50	9.95	47.65	-37.70	AVG	
1.1140	18.19	9.53	27.72	56.00	-28.28	QP	
1.1140	-1.46	9.53	8.07	46.00	-37.93	AVG	
1.5540	17.62	9.54	27.16	56.00	-28.84	QP	
1.5540	-1.41	9.54	8.13	46.00	-37.87	AVG	
5.9099	11.38	9.64	21.02	60.00	-38.98	QP	
5.9099	-0.92	9.64	8.72	50.00	-41.28	AVG	
13.9659	5.32	9.82	15.14	60.00	-44.86	QP	
13.9659	-3.06	9.82	6.76	50.00	-43.24	AVG	

#### Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.





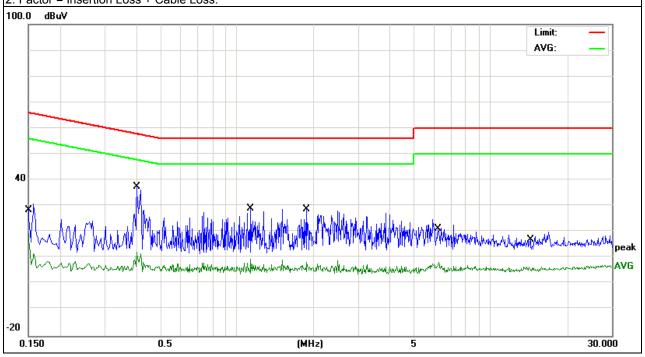
EUT: MID Model Name. : AS0109K Temperature: Relative Humidity: 54% 26 ℃ Pressure: 1010hPa Test Date: 2014-05-12 Test Mode: Mode 2 Phase: Test Voltage DC 5V From Adapter AC 120V/60Hz

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.1500	15.79	9.63	25.42	65.99	-40.57	QP
0.1500	9.79	9.63	19.42	55.99	-36.57	AVG
0.4020	27.82	9.50	37.32	57.81	-20.49	QP
0.4020	2.84	9.50	12.34	47.81	-35.47	AVG
1.1340	7.88	9.53	17.41	56.00	-38.59	QP
1.1340	0.00	9.53	9.53	46.00	-36.47	AVG
1.8820	9.37	9.55	18.92	56.00	-37.08	QP
1.8820	-1.12	9.55	8.43	46.00	-37.57	AVG
6.2219	8.32	9.64	17.96	60.00	-42.04	QP
6.2219	-1.42	9.64	8.22	50.00	-41.78	AVG
14.1539	5.06	9.82	14.88	60.00	-45.12	QP
14.1539	-3.19	9.82	6.63	50.00	-43.37	AVG

#### Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.





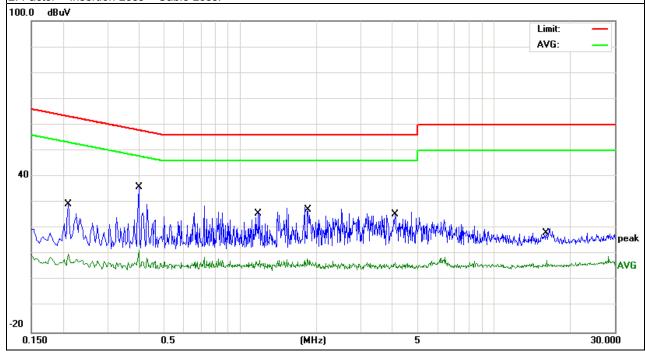
EUT: MID Model Name. : AS0109K Temperature: 26 ℃ Relative Humidity: 54% Pressure: 1010hPa Test Date: 2014-05-12 Test Mode: Mode 2 Phase: Ν Test Voltage : DC 5V From Adapter AC 120V/60Hz

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Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Detector Type
0.2100	16.55	9.49	26.04	63.20	-37.16	QP
0.2100	0.66	9.49	10.15	53.20	-43.05	AVG
0.3980	26.42	9.50	35.92	57.89	-21.97	QP
0.3980	2.16	9.50	11.66	47.89	-36.23	AVG
1.1940	4.25	9.53	13.78	56.00	-42.22	QP
1.1940	-1.73	9.53	7.80	46.00	-38.20	AVG
1.8420	16.74	9.55	26.29	56.00	-29.71	QP
1.8420	-1.33	9.55	8.22	46.00	-37.78	AVG
4.0899	15.81	9.59	25.40	56.00	-30.60	QP
4.0899	-2.81	9.59	6.78	46.00	-39.22	AVG
16.1619	5.85	9.94	15.79	60.00	-44.21	QP
16.1619	-2.31	9.94	7.63	50.00	-42.37	AVG

#### Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Factor = Insertion Loss + Cable Loss.





3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

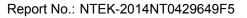
	Class A (at 10m)	Class B (at 3m)
FREQUENCY (MHz)	dBuV/m	dBuV/m
30 ~ 88	39.0	40.0
88 ~ 216	43.5	43.5
216 ~ 960	46.5	46.0
Above 960	49.5	54.0

#### Notes:

- (1) The limit for radiated test was performed according to as following: FCC PART 15B /ICES-003.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### 3.2.2 TEST PROCEDURE

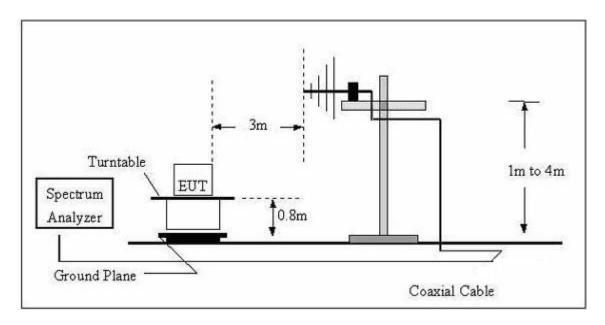
- a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 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, above 1G Average detector mode will be instead
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP(AV) Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.



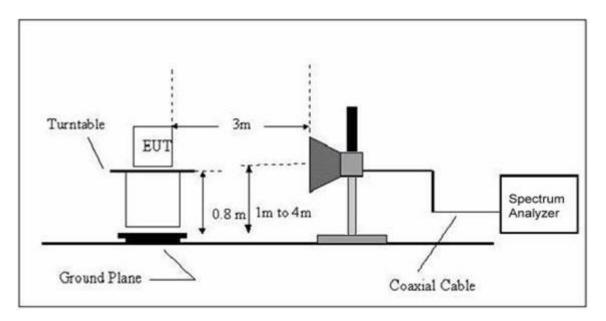


## 3.2.3 TEST SETUP

# (A) Radiated Emission Test Set-Up Frequency Below 1 GHz



# (B) Radiated Emission Test Set-Up Frequency Above 1GHz



## 3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

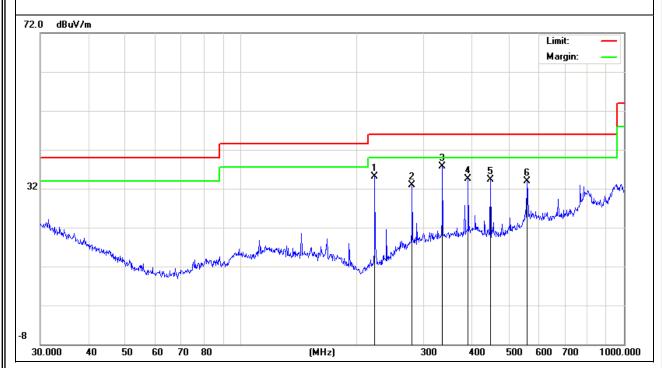


# 3.2.5 TEST RESULTS

EUT:	MID	Model Name :	AS0109K		
Temperature :	24 ℃	Relative Humidity:	54%		
Pressure:	1010 hPa	Test Date :	2014-05-12		
Test Mode :	Mode 1 Polarization : Horizontal				
Test Power :	DC 5V From Adapter AC 120V/60Hz				

Freq.	Reading	Factor	Measurement	Limit	Over	Detector
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	Detector
223.7334	26.39	8.62	35.01	46.00	-10.99	QP
280.0237	19.10	13.74	32.84	46.00	-13.16	QP
336.0352	21.86	15.81	37.67	46.00	-8.33	QP
392.0951	17.35	17.18	34.53	46.00	-11.47	QP
447.9822	18.26	16.09	34.35	46.00	-11.65	QP
558.7302	13.40	20.44	33.84	46.00	-12.16	QP

#### Remark:



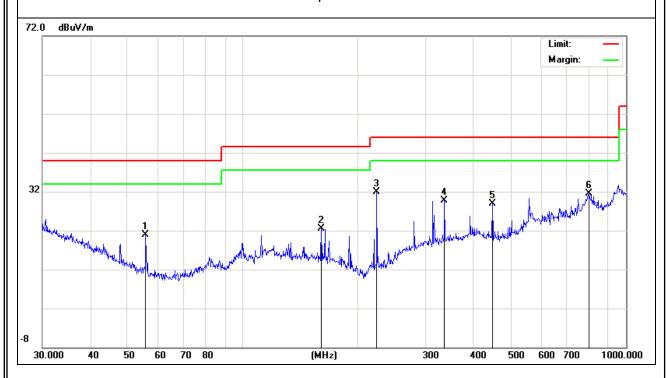


EUT: MID Model Name : AS0109K Relative Humidity: 54% Temperature: 24 ℃ Pressure: 1010 hPa Test Date: 2014-05-12 Test Mode : Mode 1 Polarization: Vertical Test Power : DC 5V From Adapter AC 120V/60Hz

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Freq.	Reading	Factor	Measurement	Limit	Over	Detector
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	Detector
55.8046	14.11	6.87	20.98	40.00	-19.02	QP
160.3456	11.53	10.99	22.52	43.50	-20.98	QP
223.7333	23.26	8.62	31.88	46.00	-14.12	QP
336.0351	13.82	15.81	29.63	46.00	-16.37	QP
447.9821	12.83	16.09	28.92	46.00	-17.08	QP
798.9796	5.63	25.92	31.55	46.00	-14.45	QP

#### Remark:



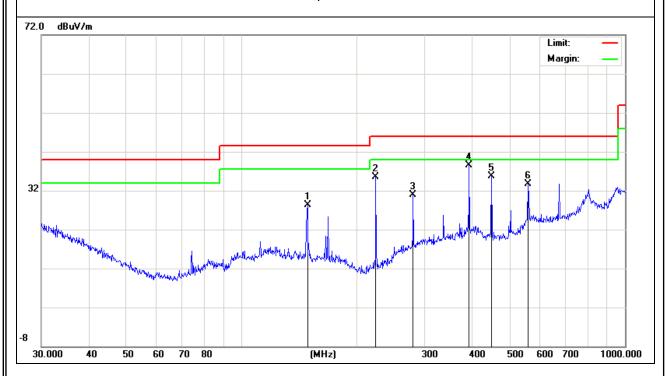


EUT: MID Model Name : AS0109K Temperature : Relative Humidity: 54% 24 ℃ Pressure: 1010 hPa Test Date: 2014-05-12 Test Mode : Mode 2 Polarization: Horizontal Test Power : DC 5V From Adapter AC 120V/60Hz

Report No.: NTEK-2014NT0429649F5

Freq.	Reading	Factor	Measurement	Limit	Over	Detector
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	Detector
148.441	17.21	11.17	28.38	43.50	-15.12	QP
223.7334	26.79	8.62	35.41	46.00	-10.59	QP
280.0237	17.21	13.74	30.95	46.00	-15.05	QP
392.0951	21.25	17.18	38.43	46.00	-7.57	QP
447.9822	19.71	16.09	35.80	46.00	-10.20	QP
558.7302	13.20	20.44	33.64	46.00	-12.36	QP

#### Remark:



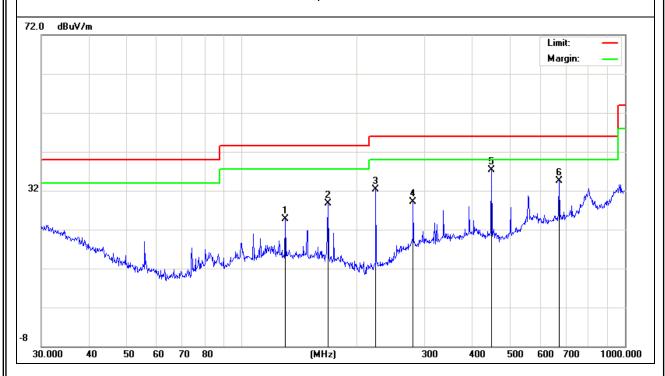


EUT: MID Model Name : AS0109K Relative Humidity: 54% Temperature: 24 ℃ Pressure: 1010 hPa Test Date: 2014-05-12 Test Mode : Mode 2 Polarization: Vertical Test Power : DC 5V From Adapter AC 120V/60Hz

Report No.: NTEK-2014NT0429649F5

Freq.	Reading	Factor	Measurement	Limit	Over	Detector
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	Detector
129.9225	13.11	11.64	24.75	43.50	-18.75	QP
167.8242	18.16	10.59	28.75	43.50	-14.75	QP
223.7333	23.62	8.62	32.24	46.00	-13.76	QP
280.0237	15.42	13.74	29.16	46.00	-16.84	QP
447.9821	21.15	16.09	37.24	46.00	-8.76	QP
672.8444	14.84	19.57	34.41	46.00	-11.59	QP

#### Remark:





3.2.6 TEST RESULTS(Above 1GHz)

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)	Туре
V	1894.621	85.96	-17.15	68.81	74.00	-5.19	peak
V	1894.621	60.82	-17.15	43.67	54.00	-10.33	AVG
V	2657.389	82.37	-15.76	66.61	74.00	-7.39	peak
V	2657.389	59.34	-15.76	43.58	54.00	-10.42	AVG
V	4013.629	76.71	-11.22	65.49	74.00	-8.51	peak
V	4013.629	53.98	-11.22	42.76	54.00	-11.24	AVG
Н	1896.351	81.81	-17.14	64.67	74.00	-9.33	peak
Н	1896.351	58.40	-17.14	41.26	54.00	-12.74	AVG
Н	3116.378	82.03	-15.54	66.49	74.00	-7.51	peak
Н	3116.378	58.51	-15.54	42.97	54.00	-11.03	AVG
Н	4361.254	75.44	-10.13	65.31	74.00	-8.69	peak
Н	4361.254	51.49	-10.13	41.36	54.00	-12.64	AVG

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



# 4. EUT TEST PHOTO











