



# **FCC Test Report**

FCC ID:2AB6DAAI9002QMI

Product: tablet PC

Trade Name : AAI vital

Model Number: viral Air902

AAI-9701DM, AAI-9701QM, AAI-906DM, AAI-900DM, AAI-900QM, AAI-9001QM

**Serial Model :** AAI-9002DM, AAI-9002QM, AAI-9001QM, AAI-9001DM,AAI-9002QMI,AAI-900DAT,

AAI-900QAT, AAI-900DR, AAI-900QIN,

AAI-900QR

**Report No.**: NTEK-2014NT102117891F3

#### Prepared for

AAI TECHNOLOGY (HK) LIMITED

RM5,6/F SHING CHUEN IND.BLDG.,25-27 SHING WAN ROAD, TAI WAI, SHATIN,N.T., HONG KONG.

#### Prepared by

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# **TEST RESULT CERTIFICATION**

Applicant's name:	AAI TECHNOLOGY (HK) LIMITED
Address:	RM5,6/F SHING CHUEN IND.BLDG.,25-27 SHING WAN ROAD, TAI WAI, SHATIN,N.T., HONG KONG.
Manufacturer's Name:	AAI Technology (HuiZhou) Co., LTD.
Address:	AAI Technology HuiZhou industrial Park, longhai $3^{\rm rd}$ Road, Xiangshui River, Dayawan E & T Development Zone, Huizhou
Product description	
Product name:	tablet PC
Model and/or type reference :	viral Air902
Standards:	FCC Part15B:01 Oct.2013 ANSI C63.4:2003
This device described above ha	s been tested by NTEK, and the test results show that the compliance with Part 15 of FCC Rules. And it is applicable only to
This report shall not be reproduc	ced except in full, without the written approval of NTEK, this
document may be altered or rev	ised by NTEK, personal only, and shall be noted in the revision of
the document.	
Date of Test	
Date (s) of performance of tests	: 21 Oct. 2014 ~12 Nov. 2014
Date of Issue	: 12 Nov. 2014
Test Result	Pass
Testing Engine	eer : Damy Humy

Testing Engineer :	Vany Grang
	Denny Huang
Technical Manager :	Brown Ln
	(Brown Lu)
Authorized Signatory:	Bin
	(Bill Yao)



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# 1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission					
Standard	Standard Test Item Limit Judgment F				
FCC Part15B:2013	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.

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

CNAS Registration Number:L5516

#### 1.2 MEASUREMENT UNCERTAINTY

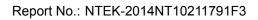
The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}$ , where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}$ , providing a level of confidence of approximately 95 %.

#### 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 ~12.4GHz	5.0	





# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Equipment	tablet PC		
Model Name	viral Air902		
Additional Model Number(s)	AAI-9701DM, AAI-9701QM, AAI-906DM,AAI-900DM AAI-900QM, AAI-906QM,AAI-9002DM, AAI-9002QM, AAI-9001QM,AAI-9001DM,AAI-9002QMI,AAI-900DAT, AAI-900QAT, AAI-900DR, AAI-900QIN, AAI-900QR		
Model Difference	All the model are the same circuit and RF module, except the model name and colour.		
	The EUT is a tablet PC.		
	Connecting I/O port: Operation Frequency:	USB, DC in ,HDMI BT:2402~2480 MHz	
		WIFI: 802.11b/g/n(20MHz):	
		2412~2462MHz	
Draduat Description		802.11n(40MHz):2422~2452MHz	
Product Description	Modulation Type:	BT(1Mbps): GFSK BT EDR(2Mbps): $\pi$ /4-DQPSK	
		BT EDR(3Mbps): 8-DPSK	
		WIFI: CCK/OFDM/DBPSK/DAPSK	
	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		
	Model:WRP2U-050200U		
Adapter	Input: 100-240V,50/60 Hz,0.4A N	Max	
	Output: 5V==-, 2A		
Battery	DC 3.7V ,4000mAh		



#### 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.

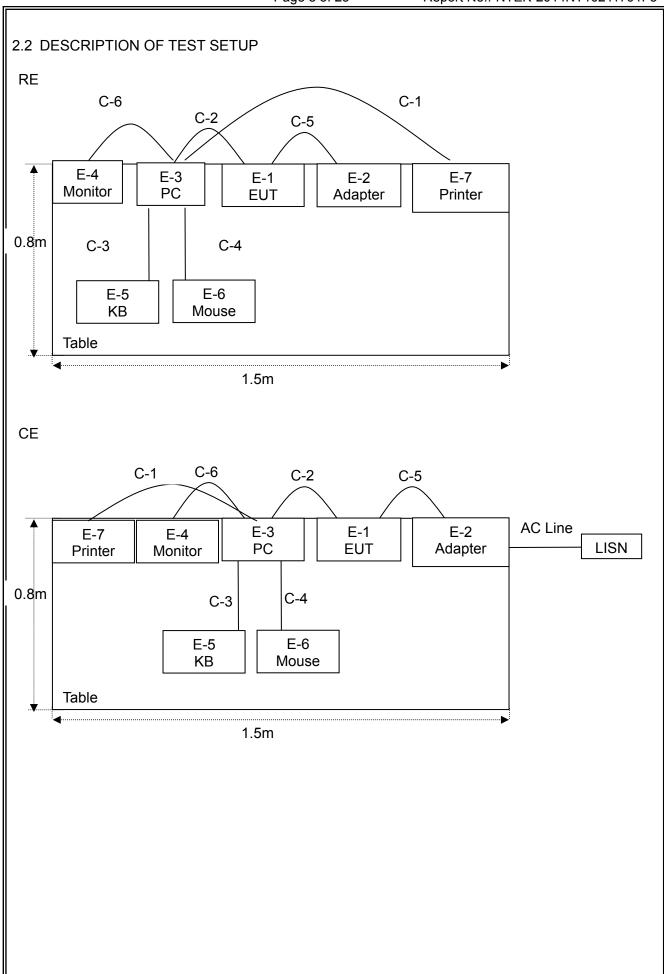
Pretest Mode	Description	
Mode 1	TF Card Playing+chagring	
Mode 2	HDMI	
Mode 3	Data Exchange	
Mode 4	REC	

For Conducted Test				
Final Test Mode	Description			
Mode 1	TF Card Playing+chagring			
Mode 2	HDMI			
Mode 3	Data Exchange			
Mode 4	REC			

For Radiated Test				
Final Test Mode	Description			
Mode 1	TF Card Playing+chagring			
Mode 2	HDMI			
Mode 3	Data Exchange			
Mode 4	REC			

Note: Final Test Mode: Through Pre-scan, find the mode 3 is the worse case. Only the worst case mode is recorded in the report.







## 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	tablet PC	AAI vital	viral Air902	N/A	EUT
E-2	ADAPTER	N/A	WRP2U-050200U	N/A	
E-3	Personal computer	DELL	FT4Y23X	34413561645	
E-4	Monitor	DELL	IN2020MB	cn-0y6mhx-74261-11 f-67es	
E-5	Keyboard	DELL	SK-8185	OY526KUS	
E-6	Mouse	DELL	MS111-P	cn-011d3v-71581-11 e-1th7	
E-7	Printer	Canon	L11121E	LBP2900	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	
C-2	NO	NO	1.0m	
C-3	NO	NO	1.0m	
C-4	NO	NO	1.0m	
C-5	NO	NO	1.0m	
C-6	NO	NO	1.0m	

#### 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, 2014	Jul. 05, 2015	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, 2014	Jul. 05, 2015	1 year
5	Test Cable	N/A	C01	N/A	Jul. 06, 2014	Jul. 05, 2015	1 year
6	Test Cable	N/A	C02	N/A	Jul. 06, 2014	Jul. 05, 2015	1 year
7	Test Cable	N/A	C03	N/A	Jul. 06, 2014	Jul. 05, 2015	1 year
8	EMI Test Receiver	R&S	ESCI	101160	Jul. 06, 2014	Jul. 05, 2015	1 year
9	Passive Voltage Probe	ESH2-Z3	R&S	100196	Jul. 06, 2014	Jul. 05, 2015	1 year
10	Absorbing Clamp	R&S	MDS-21	100423	Jul. 08, 2014	Jul. 07, 2015	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, 2014	Jul. 05, 2015	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, 2014	Jul. 05, 2015	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, 2014	Jul. 05, 2015	1 year
8	Spectrum Analyzer	Aglient	E4407B	MY45108040	Jul. 06, 2014	Jul. 05, 2015	1 year
9	Horn Antenna	EM	EM-AH-10180	2011071402	Jul. 06, 2014	Jul. 05, 2015	1 year
10	Amplifier	EM	EM-30180	060538	Jul. 06, 2014	Jul. 05, 2015	1 year
11	Loop Antenna	ARA	PLA-1030/B	1029	Jul. 06, 2014	Jul. 05, 2015	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)	
FREQUENCT (MHZ)	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



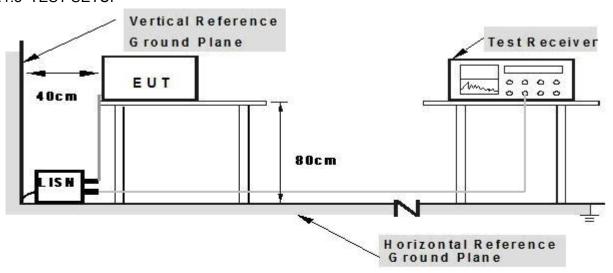
#### 3.1.2 TEST PROCEDURE

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.

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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 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.



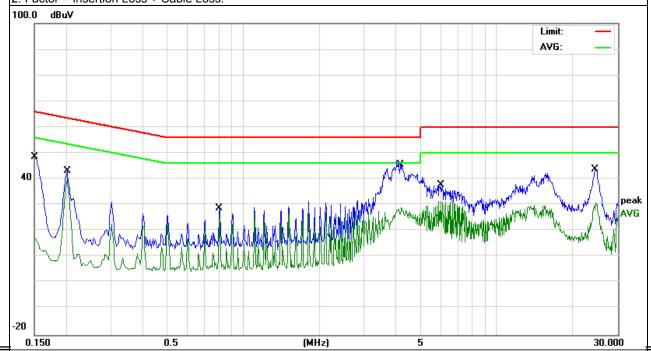
## 3.1.5 TEST RESULTS

EUT:	tablet PC	Model Name. :	viral Air902		
Temperature:	<b>26</b> ℃	Relative Humidity:	54%		
Pressure :	1010hPa	Test Date :	2014-11-05		
Test Mode:	Mode 3 Phase : L				
Test Voltage :	est Voltage : DC 5V From ADAPTER AC 120V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1500	39.01	9.63	48.64	65.99	-17.35	QP
0.1500	7.95	9.63	17.58	55.99	-38.41	AVG
0.2020	33.66	9.49	43.15	63.52	-20.37	QP
0.2020	30.62	9.49	40.11	53.52	-13.41	AVG
0.8059	19.32	9.53	28.85	56.00	-27.15	QP
0.8059	16.84	9.53	26.37	46.00	-19.63	AVG
4.2019	37.84	9.59	47.43	56.00	-8.57	QP
4.2019	19.53	9.59	29.12	46.00	-16.88	AVG
6.0139	27.73	9.64	37.37	60.00	-22.63	QP
6.0139	21.95	9.64	31.59	50.00	-18.41	AVG
24.5660	31.38	10.19	41.57	60.00	-18.43	QP
24.5660	20.63	10.19	30.82	50.00	-19.18	AVG

#### Remark:

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



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

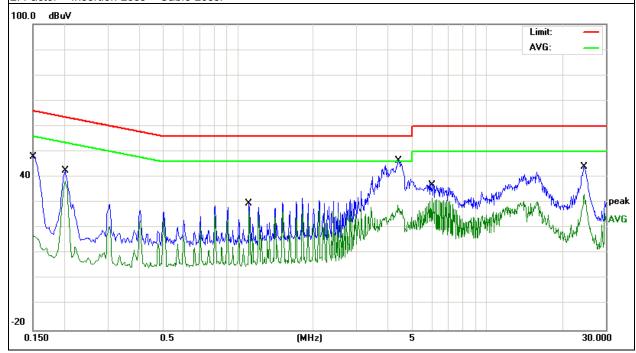


EUT:	tablet PC	Model Name. :	viral Air902
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Test Date :	2014-11-05
Test Mode: Mode 3 Phase:		N	
Test Voltage : DC 5V From ADAPTER AC 120V/60Hz			

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1499	38.22	9.66	47.88	66.00	-18.12	QP
0.1499	7.37	9.66	17.03	56.00	-38.97	AVG
0.2020	33.09	9.50	42.59	63.52	-20.93	QP
0.2020	28.84	9.50	38.34	53.52	-15.18	AVG
1.1100	20.00	9.55	29.55	56.00	-26.45	QP
1.1100	17.07	9.55	26.62	46.00	-19.38	AVG
4.3939	34.49	9.60	44.09	56.00	-11.91	QP
4.3939	19.46	9.60	29.06	46.00	-16.94	AVG
6.0179	28.02	9.64	37.66	60.00	-22.34	QP
6.0179	22.18	9.64	31.82	50.00	-18.18	AVG
24.6299	33.69	10.29	43.98	60.00	-16.02	QP
24.6299	22.95	10.29	33.24	50.00	-16.76	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

#### Test Arrangement for Radiated Emissions up to 1 GHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited test facility. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Note: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for quasi-peak detection (QP) at frequency below 1GHz.

#### Test Arrangement for Radiated Emissions above 1 GHz.

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at an accredited chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna can be varied from one meter to four meters, the height of adjustment depends on the EUT height and the antenna 3dB beamwidth both, to detect the maximum value of the field strength.Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.



Note: For the hand-held device, the EUT should be measured for all 3 axes and only the wors case is recorded in the report

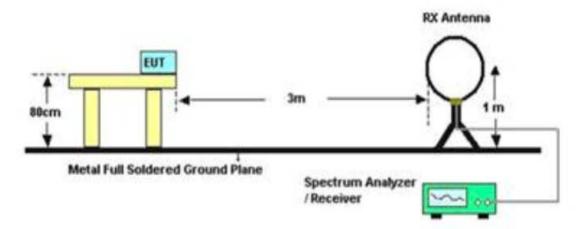
During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

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

#### 3.2.3 TEST SETUP

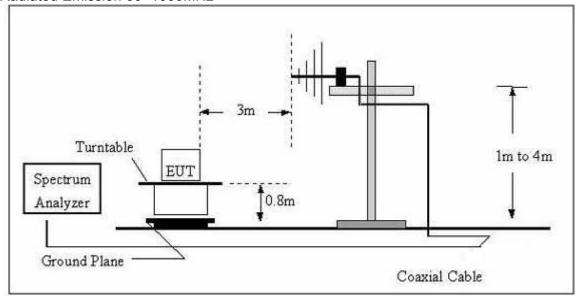
(A) Radiated Emission Test Set-Up Frequency Below 1 GHz

# For radiated emissions below 30MHz

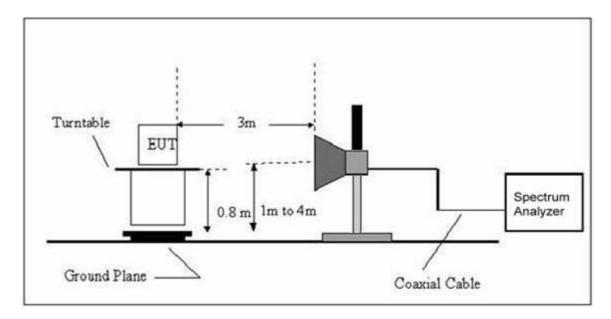




#### For Radiated Emission 30~1000MHz



## (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 TEST RESULTS (Below 30 MHz)

EUT:	tablet PC	Model Name :	viral Air902
Temperature :	<b>20</b> ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	
Test Mode :	TX	Polarization :	

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

#### 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 =20 log (specific distance/test distance)(dB);

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



TEST RESULTS (30~1000 MHz)

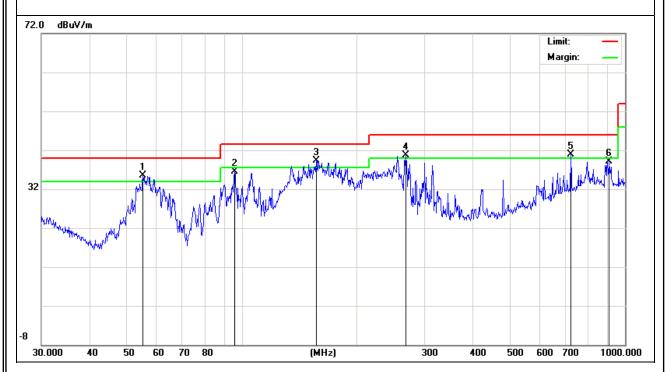
EUT:	tablet PC	Model Name :	viral Air902				
Temperature :	<b>24</b> ℃	Relative Humidity:	54%				
Pressure:	1010 hPa	Test Date :	2014-11-05				
Test Mode :	Mode 3	Polarization :	Horizontal				
Test Power :	DC 5V From ADAPTER AC 120V/60Hz						

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Freq.	Reading	Factor	Measurement	Limit	Over	Remark
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)	Remark
55.2207	26.30	9.20	35.50	40.00	-4.50	QP
95.7622	28.05	8.53	36.58	43.50	-6.92	QP
156.4576	28.85	10.45	39.30	43.50	-4.20	QP
267.5455	26.89	13.79	40.68	46.00	-5.32	QP
721.7259	15.57	25.36	40.93	46.00	-5.07	QP
909.6666	12.13	27.07	39.20	46.00	-6.80	QP

#### Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





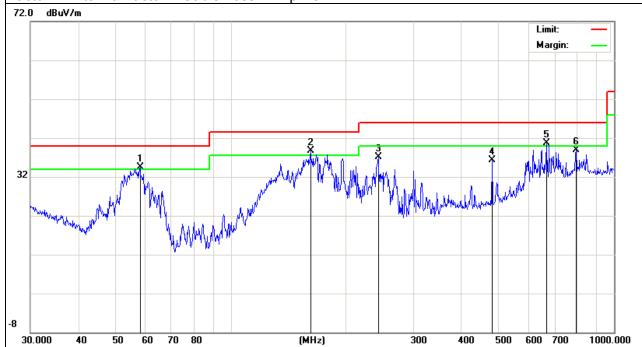
EUT: tablet PC Model Name : viral Air902 Temperature: **24** ℃ Relative Humidity: 54% Pressure: 1010 hPa Test Date: 2014-11-05 Test Mode : Mode 3 Polarization: Vertical Test Power : DC 5V From ADAPTER AC 120V/60Hz

Report No.: NTEK-2014NT10211791F3

Freq.	Reading	Factor	Measurement	Limit	Over	Remark	
(MHz)	(dBuV)	(dBuV)	(dBuV)	(dBuV)	(dB)		
57.9992	26.20	8.40	34.60	40.00	-5.40	QP	
161.4738	28.25	10.50	38.75	43.50	-4.75	QP	
242.5252	23.58	13.52	37.10	46.00	-8.90	QP	
480.5276	16.32	19.91	36.23	46.00	-9.77	QP	
665.8034	16.95	23.85	40.80	46.00	-5.20	QP	
796.1829	11.63	27.31	38.94	46.00	-7.06	QP	

#### Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





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# 3.2.6 TEST RESULTS(1000~12400MHz)

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark	
(H/V)	(MHz)	(dBm)	(dB)	(dBm)	(dBm)	(dB)		
V	1258.178	63.17	-16.39	46.78	74	-27.22	peak	
V	1258.178	40.77	-16.39	24.38	54	-29.62	AVG	
V	2070.269	61.44	-11.42	50.02	74	-23.98	peak	
V	2070.269	39.99	-11.42	28.57	54	-25.43	AVG	
V	2395.655	60.98	-11.17	49.81	74	-24.19	peak	
V	2395.655	38.39	-11.17	27.22	54	-26.78	AVG	
V	2795.462	61.71	-9.94	51.77	74	-22.23	peak	
V	2795.462	38.71	-9.94	28.77	54	-25.23	AVG	
V	2995.553	60.36	-10.08	50.28	74	-23.72	peak	
V	2995.553	40.35	-10.08	30.27	54	-23.73	AVG	
V	4120.364	57.18	-4.12	53.06	74	-20.94	peak	
V	4120.364	35.76	-4.12	31.64	54	-22.36	AVG	
Н	1458.668	58.21	-15.55	42.66	74	-31.34	peak	
Н	1458.668	37.81	-15.55	22.26	54	-31.74	AVG	
Н	1658.294	58.39	-14.62	43.77	74	-30.23	peak	
Н	1658.294	38.58	-14.62	23.96	54	-30.04	AVG	
Н	2070.183	56.76	-11.42	45.34	74	-28.66	peak	
Н	2070.183	36.19	-11.42	24.77	54	-29.23	AVG	
Н	2845.562	56.65	-9.73	46.92	74	-27.08	peak	
Н	2845.562	35.32	-9.73	25.59	54	-28.41	AVG	
Н	3933.347	53.24	-5.37	47.87	74	-26.13	peak	
Н	3933.347	31.64	-5.37	26.27	54	-27.73	AVG	
Н	4908.191	51.14	-1.67	49.47	74	-24.53	peak	
Н	4908.191	30.04	-1.67	28.37	54	-25.63	AVG	
Pomark:								

Remark:

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



# 4. EUT TEST PHOTO











