

FCC Test Report

FCC ID: 2ALPC-SV-86

Product: 8-Inch Fully Ruggedized Tablet

Trade Mark: N/A

Model Number: SV-86

Serial Model: N/A

Report No.: NTEK-2017NT03282288F4

Prepared for

Sinicvision Technology Co., Ltd.
Flat C 23/F Lucky Plaza, 315 - 321 Lockhart Road, Wan Chai, HK

Prepared by

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Report No.: NTEK-2017NT03282288F4

TEST RESULT CERTIFICATION

Address: Flat C 23/F L	ucky Plaza, 315 - 321 Lockhart Road, Wan Chai, HK
Manufacturer's Name: Sinicvision Te	echnology Co., Ltd.
Address Flat C 23/F L	ucky Plaza, 315 - 321 Lockhart Road, Wan Chai, HK
Product description	
Product name 8-Inch Fully	Ruggedized Tablet
Model and/or type reference : SV-86	
Standards FCC Part15 ANSI C63.4	B:01 Oct.2016 :2014
	d by NTEK, and the test results show that the with Part 15 of FCC Rules. And it is applicable only to
This report shall not be reproduced except in	n full, without the written approval of NTEK, this
	K, personnel only, and shall be noted in the revision of
the document. Date of Test:	
	8 Mar. 2017 ~ 20 Apr. 2017
· · · · (-) - · · · · · · · · · · · · · · · · · ·	0 Apr. 2017
	Pass
Test Nesult	ass
	20 T 20
Testing Engineer : _	(Lake Xie)
	(Lake Xie)
Technical Manager :	Jason chen
_	(Jason Chen)
Authorized Signatory:	Sam. Chew
	(Sam Chen)



Table of Contents	Page
1 . TEST SUMMARY	4
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2 . GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST SETUP	8
2.3 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL	9
2.4 MEASUREMENT INSTRUMENTS LIST	10
3 . EMC EMISSION TEST	11
3.1 CONDUCTED EMISSION MEASUREMENT	11
3.1.1 POWER LINE CONDUCTED EMISSION	11
3.1.2 TEST PROCEDURE	12
3.1.3 TEST SETUP	12
3.1.4 EUT OPERATING CONDITIONS 3.1.5 TEST RESULTS	12 13
3.2 RADIATED EMISSION MEASUREMENT	17
3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT 3.2.2 TEST PROCEDURE	17 17
3.2.3 TEST PROCEDURE 3.2.3 TEST SETUP	17
3.2.4 TEST RESULTS	19
3.2.5 TEST RESULTS(1000~6000MHz)	21
4 . EUT TEST PHOTO	22



1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission							
Standard	Test Item	Limit	Judgment	Remark			
FCC Part15B:2014 ANSI C63.4: 2014	Conducted Emission	Class B	PASS				
	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

Shenzhen 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	8-Inch Fully Ruggedized	Tablet			
Trade Mark	N/A				
Model Name	SV-86				
Serial Model	N/A				
Model Difference	N/A				
Product Description Power Source	The EUT is a 8-Inch Full Connecting I/O port: Operation Frequency: Modulation Type:	USB, DC in BT:2402~2480 MHz WIFI:802.11b/g/n(20MHz): 2412~2462MHz 802.11n(40MHz):2422~2452MHz 5.2 WIFI: 5180-5240MHz for 802.11a/n(HT20)/AC20; 5190-5230MHz for 802.11n(HT40)/AC40; 5210MHz for 802.11 AC80 5.8 WIFI: 5745-5825 MHz for 802.11a/n(HT20)/AC20; 5755-5795 MHz for 802.11a/n(HT40)/AC40; 5775MHz for 802.11 AC80 BT(1Mbps)/BLE: GFSK BT EDR(2Mbps): π/4-DQPSK BT EDR(3Mbps): 8-DPSK IEEE 802.11b: DSSS (CCK, QPSK, DBPSK) IEEE 802.11g/n (HT20/HT40): OFDM (64QAM, 16QAM, QPSK, BPSK) OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac			
1 Ower Source	DC Voltage: DC 3.7V/8500mAh from Battery or DC 5V from Adapter. Model:AW018WR-0500300VH				
Adapter	Input:100-240V 50/60Hz 0.5A				
	Output:DC 5V, 3A				
Battery	DC 3.7V, 8500mAh				
HW Version	EM_I82_MB_PCB_V14R3				
SW Version	OS Build: 10586.633				



2.1.1 DESCRIPTION OF TEST MODES

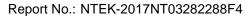
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration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

Pretest Mode	Description
Mode 1	Connect to PC
Mode 2	REC
Mode 3	ВТ
Mode 4	2.4G/5GWIFI
Mode 5	TF CARD

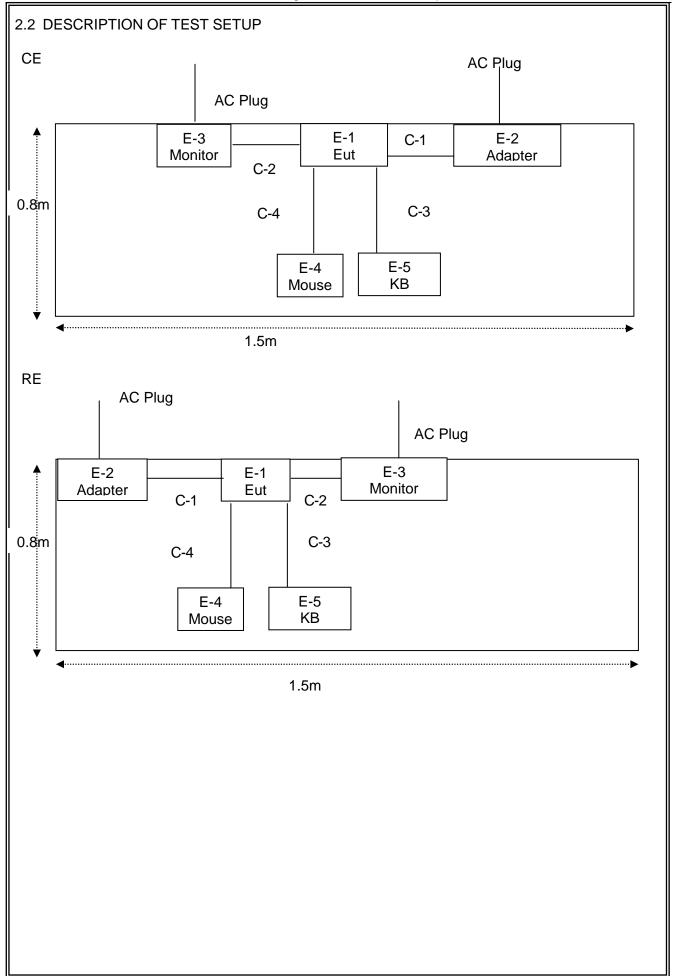
For Conducted Test				
Final Test Mode	Description			
Mode 1	Connect to PC			
Mode 2	REC			
Mode 3	BT			
Mode 4	WIFI			
Mode 5	TF CARD			

For Radiated Test				
Final Test Mode	Description			
Mode 1	Connect to PC			
Mode 2	REC			
Mode 3	BT			
Mode 4	2.4G/5GWIFI			
Mode 5	TF CARD			

Note: Final Test Mode: Through Pre-scan, find the mode 1 is the worst 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	8-Inch Fully Ruggedized Tablet	N/A	SV-86	N/A	EUT
E-2	Adapter	N/A	AW018WR-0500300VH	N/A	
E-3	Monitor	DELL	IN2020MB	cn-0y6mhx-74261-11f-67es	
E-4	Mouse	DELL	MS111-P	cn-011d3v-71581-11e-1th7	Periphera Is
E-5	KB	DELL	SK-8185	OY526KUS	

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable	NO	NO	1.0m	
C-2	USB Cable	NO	NO	1.5m	
C-3	KB Cable	NO	NO	1.2m	
C-4	Mouse Cable	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

Radiation Test equipment

	allon rest equi						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Spectrum Analyzer	Agilent	E4407B	MY4510804 0	2016.07.06	2017.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2016.06.07	2017.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2016.07.06	2017.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 6	2016.06.07	2017.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2016.06.07	2017.06.06	1 year
6	Horn Antenna	EM	EM-AH-101 80	2011071402	2016.07.06	2017.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2016.07.06	2017.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2016.07.06	2017.07.05	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2016.06.08	2017.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2016.07.06	2017.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619. 05	2016.07.06	2017.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2016.07.06	2017.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2016.07.06	2017.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufactu rer	Type No.	Serial No.	Last calibration	Calibrated until	Calibratio n period
1	Test Receiver	R&S	ESCI	101160	2016.06.06	2017.06.05	1 year
2	LISN	R&S	ENV216	101313	2016.08.24	2017.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2016.08.24	2017.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	620026441 7	2016.06.07	2017.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2016.06.07	2017.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2016.06.08	2017.06.07	1 year
7	Test Cable	N/A	C01	N/A	2016.06.08	2017.06.07	1 year
8	Test Cable	N/A	C02	N/A	2016.06.08	2017.06.07	1 year
9	Test Cable	N/A	C03	N/A	2016.06.08	2017.06.07	1 year



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

	Class A (dBuV)		Class B (dBuV)		
FREQUENCY (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

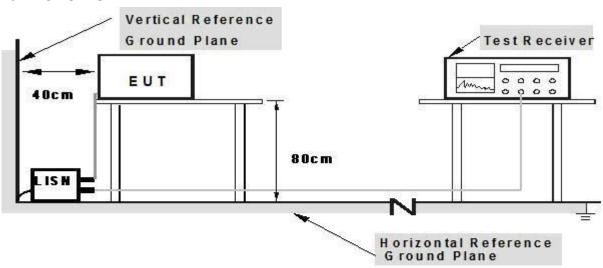
The remaining tensions are detailing or and received		
Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	9 kHz	



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 LISMs (AMM) 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.

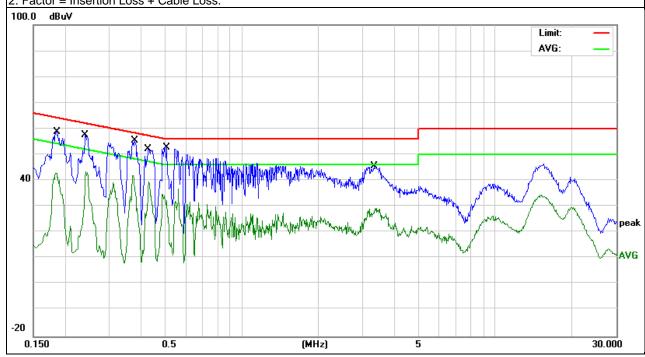


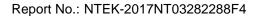
3.1.5 TEST RESULTS

EUT:	8-Inch Fully Ruggedized Tablet	Model Name. :	SV-86		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2017-03-28		
Test Mode:	Mode 1 Phase : L				
Test Voltage:	DC 5V from Adapter AC 120V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domork
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1872	48.77	10.13	58.90	64.16	-5.26	QP
0.1872	31.23	10.13	41.36	54.16	-12.80	AVG
0.2403	47.38	10.12	57.50	62.08	-4.58	QP
0.2403	20.50	10.12	30.62	52.08	-21.46	AVG
0.3780	43.97	10.15	54.12	58.32	-4.20	QP
0.3780	26.12	10.15	36.27	48.32	-12.05	AVG
0.4304	42.01	10.17	52.18	57.24	-5.06	QP
0.4304	28.66	10.17	38.83	47.24	-8.41	AVG
0.5060	42.71	10.16	52.87	56.00	-3.13	QP
0.5060	20.76	10.16	30.92	46.00	-15.08	AVG
3.3580	35.43	10.21	45.64	56.00	-10.36	QP
3.3580	19.00	10.21	29.21	46.00	-16.79	AVG

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

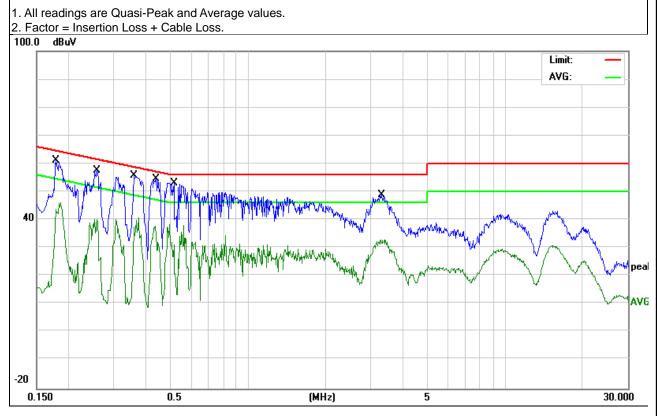






EUT:	8-Inch Fully Ruggedized Tablet	Model Name. :	SV-86		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2017-03-28		
Test Mode:	Mode 1 Phase : N				
Test Voltage:	DC 5V from Adapter AC 120V/60Hz				

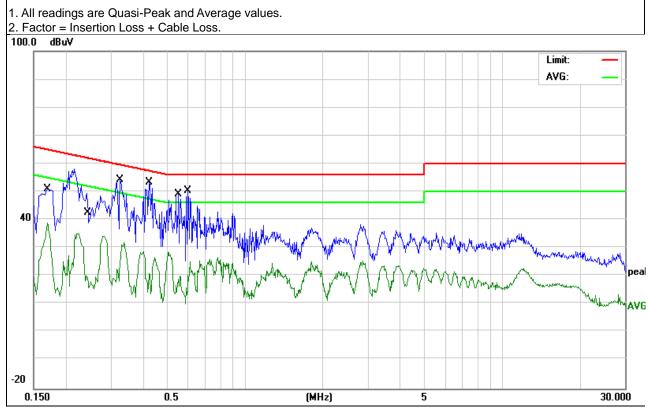
Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domonto
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1786	50.97	10.13	61.10	64.55	-3.45	QP
0.1786	33.53	10.13	43.66	54.55	-10.89	AVG
0.2580	47.49	10.11	57.60	61.49	-3.89	QP
0.2580	30.03	10.11	40.14	51.49	-11.35	AVG
0.3594	45.50	10.14	55.64	58.74	-3.10	QP
0.3594	26.19	10.14	36.33	48.74	-12.41	AVG
0.4420	44.52	10.17	54.69	57.02	-2.33	QP
0.4420	19.00	10.17	29.17	47.02	-17.85	AVG
0.5180	42.99	10.17	53.16	56.00	-2.84	QP
0.5180	10.81	10.17	20.98	46.00	-25.02	AVG
3.2940	38.55	10.21	48.76	56.00	-7.24	QP
3.2940	21.56	10.21	31.77	46.00	-14.23	AVG

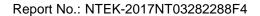




EUT:	8-Inch Fully Ruggedized Tablet	Model Name. :	SV-86	
Temperature:	26 ℃	Relative Humidity:	54%	
Pressure:	1010hPa	Test Date:	2017-03-28	
Test Mode:	Mode 1	Phase :	L	
Test Voltage:	DC 5V from Adapter AC 240V/60Hz			

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Domorle
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1711	40.85	10.15	51.00	64.90	-13.90	QP
0.1711	26.83	10.15	36.98	54.90	-17.92	AVG
0.2462	47.97	10.13	58.10	61.88	-3.78	QP
0.2462	21.08	10.13	31.21	51.88	-20.67	AVG
0.3260	44.00	10.13	54.13	59.55	-5.42	QP
0.3260	14.89	10.13	25.02	49.55	-24.53	AVG
0.4219	43.20	10.15	53.35	57.41	-4.06	QP
0.4219	10.71	10.15	20.86	47.41	-26.55	AVG
0.5540	38.88	10.16	49.04	56.00	-6.96	QP
0.5540	6.43	10.16	16.59	46.00	-29.41	AVG
0.6059	40.13	10.17	50.30	56.00	-5.70	QP
0.6059	11.04	10.17	21.21	46.00	-24.79	AVG

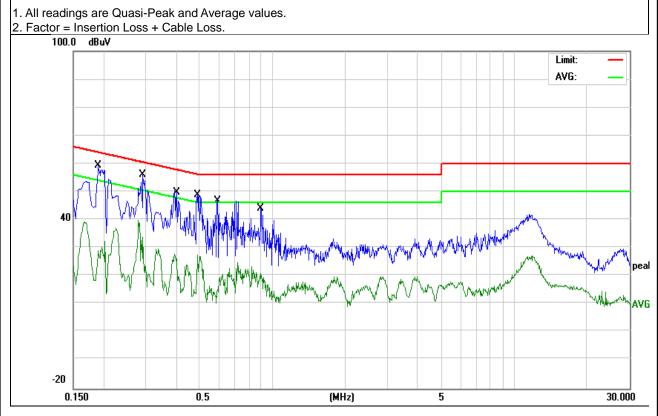






EUT:	8-Inch Fully Ruggedized Tablet	Model Name. :	SV-86		
Temperature:	26 ℃	Relative Humidity:	54%		
Pressure:	1010hPa	Test Date:	2017-03-28		
Test Mode:	Mode 1 Phase : N				
Test Voltage:	DC 5V from Adapter AC 240V/60Hz				

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBµV)	(dB)	(dBµV)	(dBµV)	(dB)	Remark
0.1903	49.11	10.14	59.25	64.02	-4.77	QP
0.1903	18.78	10.14	28.92	54.02	-25.10	AVG
0.2908	45.88	10.12	56.00	60.50	-4.50	QP
0.2908	20.27	10.12	30.39	50.50	-20.11	AVG
0.3997	40.29	10.14	50.43	57.86	-7.43	QP
0.3997	15.74	10.14	25.88	47.86	-21.98	AVG
0.4941	38.86	10.14	49.00	56.10	-7.10	QP
0.4941	11.68	10.14	21.82	46.10	-24.28	AVG
0.5980	36.66	10.17	46.83	56.00	-9.17	QP
0.5980	4.10	10.17	14.27	46.00	-31.73	AVG
0.8980	33.96	10.20	44.16	56.00	-11.84	QP
0.8980	9.19	10.20	19.39	46.00	-26.61	AVG





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	Class A (at 10m)	Class B (at 3m)	
PREQUENCY (MINZ)	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

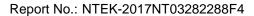
Test Arrangement for Radiated Emissions up to 1 GHz

- 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.





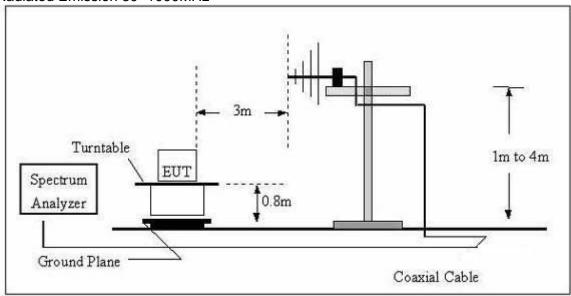
Note: For the hand-held device, the EUT should be measured for all 3 axes and only the wors case is recorded in the report

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

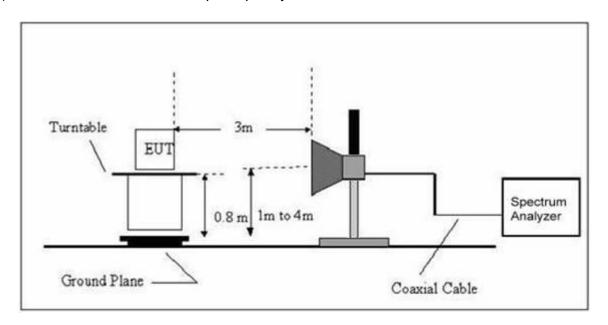
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth	
30 to 1000 QP		120 kHz	300 kHz	
	Peak	1 MHz	1 MHz	
Above 1000	Avg	1 MHz	10 Hz	

3.2.3 TEST SETUP

For Radiated Emission 30~1000MHz



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





3.2.4 TEST RESULTS

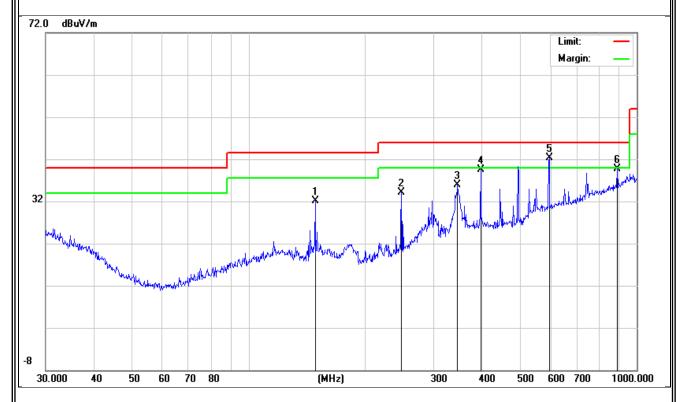
TEST RESULTS (30~1000 MHz)

EUT:	8-Inch Fully Ruggedized Tablet	Model Name:	SV-86		
Temperature:	24 ℃	Relative Humidity:	54%		
Pressure:	1010 hPa	Test Date :	2017-03-28		
Test Mode :	Mode 1 Polarization : Horizontal				
Test Power :	DC 5V from Adapter AC 120V/60Hz				

Polar (H/V) H H H H	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Н	148.4410	19.11	13.04	32.15	43.50	-11.35	QP
Н	247.6819	19.26	14.83	34.09	46.00	-11.91	QP
Н	345.5951	18.28	17.67	35.95	46.00	-10.05	QP
Н	396.2415	19.37	20.04	39.41	46.00	-6.59	QP
Н	595.1329	17.71	24.58	42.29	46.00	-3.71	QP
Н	890.7278	10.31	29.32	39.63	46.00	-6.37	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





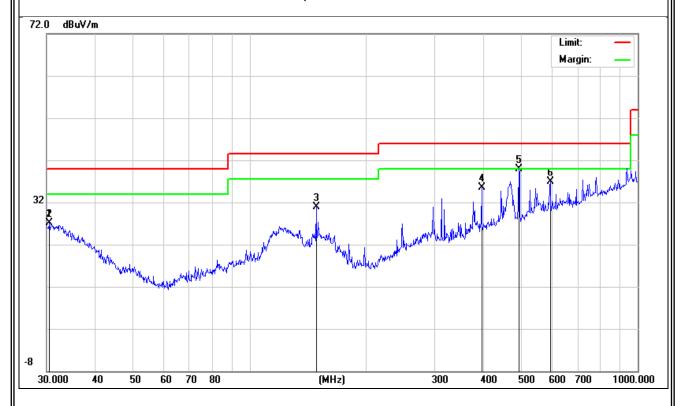
8-Inch Fully Ruggedized Tablet Model Name: EUT: SV-86 Temperature: Relative Humidity: 54% Pressure: 1010 hPa Test Date: 2017-03-28 Test Mode: Mode 1 Polarization: Vertical Test Power: DC 5V from Adapter AC 120V/60Hz

Report No.: NTEK-2017NT03282288F4

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	reman
V	30.5306	7.51	19.59	27.10	40.00	-12.90	QP
V	30.5306	7.51	19.59	27.10	40.00	-12.90	QP
V	148.4410	17.96	13.04	31.00	43.50	-12.50	QP
V	396.2414	15.44	20.04	35.48	46.00	-10.52	QP
V	494.1984	18.56	21.32	39.88	46.00	-6.12	QP
V	595.1328	12.33	24.58	36.91	46.00	-9.09	QP

Remark:

Factor = Antenna Factor + Cable Loss - Amplifier.





3.2.5 TEST RESULTS(1000~6000MHz)

EUT:	8-Inch Fully Ruggedized Tablet	Model Name :	SV-86		
Temperature:	24 ℃	Relative Humidity:	54%		
Pressure:	1010 hPa	Test Date :	2017-03-28		
Test Mode:	Mode 1				
Test Power:	DC 5V from Adapter AC 120V/60Hz				

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

Pola r (H/V	Frequenc y	Reading	Corre ct	Result	Limit	Over Limit	Remark
)	(MHz)	(dBuV/m	dB/m	(dBuV/m	(dBuV/m	(dB)	
V	1332.124	61.57	-12.6	49.01	74	-25	PK
V	1559.486	62.70	-12.2	50.48	74	-23.5	PK
V	1657.157	60.24	-12.5	47.49	74	-26.2	PK
V	2806.824	47.99	-8.74	39.25	74	-34.8	PK
Н	1559.486	61.69	-12.2	49.47	74	-24.5	PK
Н	1872.203	55.15	-10.6	44.53	74	-29.5	PK
Н	2806.824	50.10	-8.74	41.36	74	-32.6	PK
Н	3119.795	56.35	-6.90	49.45	74	-24.6	PK

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit Note: Only the worst results data points are reported in the report.



4. EUT TEST PHOTO



