





FCC Part 15B TEST REPORT

Report No: STS1801160E01

Issued for

ITALCOM GROUP

1728 Coral Way, Coral Gables, Miami, Florida, United States 33145 (Zip code: 518048)

Product Name:	3G TABLET
Brand Name:	NYX
Model Name:	SEVEN
Series Model:	N/A
FCC ID:	YPVITALCOMSEVEN
Test Standard:	FCC Part 15B

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Shenzhen STS Test Services Co., Ltd.

1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,
Fuyong Street, Bao'an District, Shenzhen, Guangdong, China
TEL: +86-755 3688 6288 FAX: +86-755 3688 6277 E-mail:sts@stsapp.com



TEST RESULT CERTIFICATION

Applicant's name..... ITALCOM GROUP

1728 Coral Way, Coral Gables, Miami, Florida, United States

33145(Zip code: 518048)

Manufacture's Name Shenzhen qianhai aibo Science and Technology Ltd.

Address room 303, Ling Nan building, NO.3081, Qiaoxiang Road, Futian

District, Shenzhen city, Guangdong, Province, China

Report No.: STS1801160E01

Product description

Brand name.....: NYX

Model Name SEVEN

Series Model N/A

Standards..... FCC Part 15B

Test procedure ANSI C63.4-2014

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

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Date of Test.....

Date of performance of tests 15 Jan. 2018~18 Jan. 2018

Date of Issue 19 Jan. 2018

Test Result Pass

Testing Engineer

(Kyle Rao)

Technical Manager :

Authorized Signatory:

(Chopin Xiao)

(Vita Li)

1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755 3688 6288 Fax:+86-755 3688 6277 Http://www.stsapp.com E-mail: sts@stsapp.com







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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	19 Jan. 2018	STS1801160E01	ALL	Initial Issue







1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

EMISSION				
Standard	Item	Result	Remarks	
FOC 47 OFD Dow 45 Cub now D	Conducted Emission	PASS	Meet Class B limit	
FCC 47 CFR Part 15 Subpart B	Radiated Emission	PASS	Meet Class B limit	

NOTE:

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

1.1 TEST FACTORY

Company Name:	Shenzhen STS Test Services Co. Ltd.	
Address:	1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong, China	
Telephone:	+86-755 3688 6288	
Fax:	+86-755 3688 6277	
Registration No.:	CNAS Registration No.: L7649; FCC Registration No.: 625569	
	IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;	

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y \pm 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 (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	All emissions,radiated(<30M) (9KHz-30MHz)	±2.45dB
4	All emissions,radiated(<1G) 30MHz-200MHz	±3.73dB
5	All emissions,radiated(<1G) 200MHz-1000MHz	±3.92dB
6	All emissions,radiated(>1G)	±3.31dB



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name	3G TABLET	3G TABLET		
Brand Name	NYX	NYX		
Model Name	SEVEN			
Series Model	N/A			
Model Difference	N/A			
	GSM	850: 824.2~848.8MHz 1900: 1850.2~1909.8MHz		
Frequency Bands	WCDMA	Band II: 1852.4~1907.6MHz Band V: 826.4~846.6MHz		
	WLAN	802.11b/g/n(HT20/40):2412~2462MHz		
	Bluetooth	2402~2480MHz		
	GSM	GMSK for GPRS; GMSK and 8PSK for EDGE		
	WCDMA	QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK		
	WLAN	CCK/OFDM/DBPSK/DAPSK		
Modulation Mode		BT(1Mbps): GFSK		
	Bluetooth	BT EDR(2Mbps): π/4-DQPSK		
		BT EDR(3Mbps): 8DPSK		
	BLE	GFSK		
Adapter	Input: AC100-240V, 150mA, 50/60Hz Output: DC 5V, 1000mA			
	Rated Voltage: 3.7V Capacity: 2200mAh Charge Limit: 4.2V			
Battery				
Hardware version number	NYX_SEVEN_001			
Software version number	SEVEN_AMXNYX_V001R			

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



2.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description	
Mode 1	USB port communication with PC	

For Conducted Test		
Final Test Mode Description		
Mode 1	USB port communication with PC	

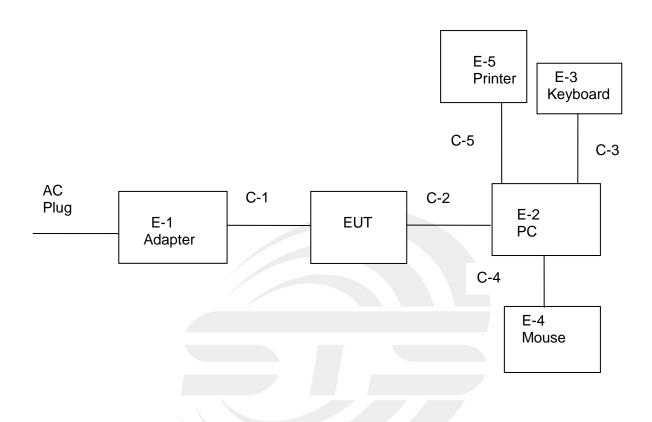
For Radiated Test		
Final Test Mode Description		
Mode 1	USB port communication with PC	

NOTE:

- The test modes were carried out for all operation modes. Only worst case will be show in this report.
- 2. We have be tested for all avaiable U.S. voltage and frequencies(For 120V, 50/60Hz) for which the device is capable of operation.



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





2.4 DESCRIPTION OF SUPPORT UNITS

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.	Note
E-1	Adapter	N/A	N/A	EUT
E-2	PC	4CV428DQXR	500-320cx	Auxiliary equipment
E-3	Keyboard	HP	PR1101U	Auxiliary equipment
E-4	Mouse	MOTOSPEED	F66	Auxiliary equipment
E-5	Printer	HP	HP1020	Auxiliary equipment

Item	Shielded Type	Ferrite Core	Length	Note
C-1	Shielded	NO	90cm	Auxiliary equipment
C-2	USB Cable (FTP)	NO	95cm	Auxiliary equipment
C-3	USB Cable (FTP)	NO	100cm	Auxiliary equipment
C-4	USB Cable (FTP)	NO	105cm	Auxiliary equipment
C-5	USB Cable (FTP)	NO	110cm	Auxiliary equipment

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" is means "shielded" "with core"; "NO" is means "unshielded" "without core".
- (4) PC is the FCC DOC is approved.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

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.

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	101427	2017.10.15	2018.10.14
Bilog Antenna	TESEQ	CBL6111D	34678	2017.10.30	2018.10.29
Horn Antenna	SCHWARZBE CK	BBHA 9120D(1201)	9120D-1343	2017.10.27	2018.10.26
Power Amplifier	Agilent	8449B	60538	2017.10.15	2018.10.14
Spectrum Analyzer	Agilent	E4407B	MY50140340	2017.03.11	2018.03.10
Pre-mplifier(1G-18 G)	Agilent	8449B	60538	2017.10.28	2018.10.27
Spectrum Analyzer	Agilent	N9020A	MY49100060	2017.03.11	2018.03.10
Pre-mplifier(0.1M-3 GHz)	EM	EM330	60538	2017.03.12	2018.03.11

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESPI	102086	2017.10.15	2018.10.14
LISN	R&S	ENV216	101242	2017.10.15	2018.10.14
LISN	EMCO	3810/2NM	23625	2017.10.15	2018.10.14
Absorbing clamp	R&S	MDS-21	100668	2017.10.19	2018.10.18



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits

	Conducted Emission Limits (dBuV)					
FREQUENCY (MHz)	Class A		Class B			
	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

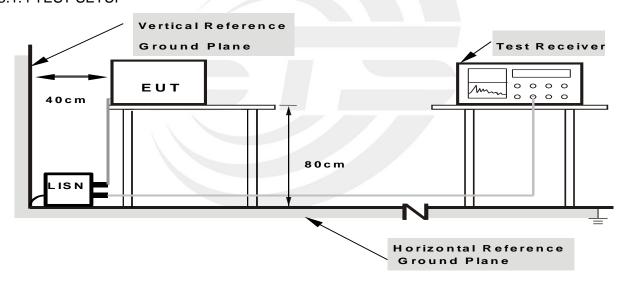
The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance

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

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



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

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

3.1.5 EUT OPERATING CONDITIONS

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



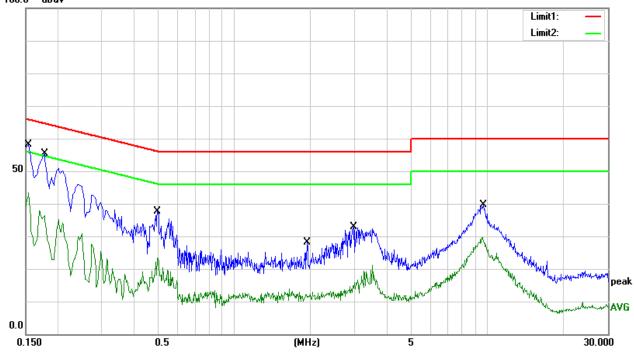
3.1.6 TEST RESULTS

Temperature:	23.5 ℃	Relative Humidity:	59%
Phase:	L	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	48.34	9.79	58.13	65.78	-7.65	QP
2	0.1540	28.41	9.79	38.20	55.78	-17.58	AVG
3	0.1780	45.55	9.78	55.33	64.58	-9.25	QP
4	0.1780	25.47	9.78	35.25	54.58	-19.33	AVG
5	0.4980	27.53	10.03	37.56	56.03	-18.47	QP
6	0.4980	13.19	10.03	23.22	46.03	-22.81	AVG
7	1.9420	18.29	9.78	28.07	56.00	-27.93	QP
8	1.9420	1.91	9.78	11.69	46.00	-34.31	AVG
9	2.9740	22.99	9.81	32.80	56.00	-23.20	QP
10	2.9740	6.18	9.81	15.99	46.00	-30.01	AVG
11	9.6940	29.55	10.18	39.73	60.00	-20.27	QP
12	9.6940	16.71	10.18	26.89	50.00	-23.11	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor)-Limit
- 3. Factor= Cable Loss +Antenna Factor-Amplifier Gain



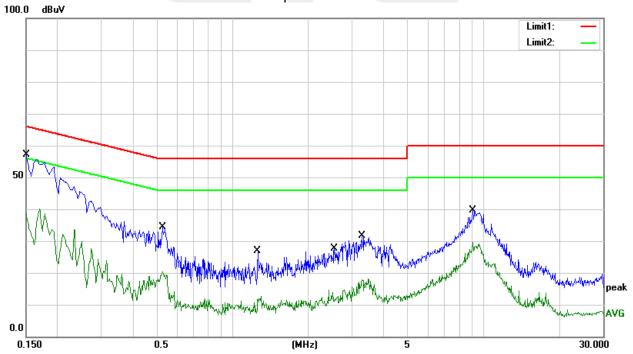
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Temperature:	23.5 ℃	Relative Humidity:	59%
Phase:	N	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	47.37	9.75	57.12	66.00	-8.88	QP
2	0.1500	28.77	9.75	38.52	56.00	-17.48	AVG
3	0.5260	24.52	9.96	34.48	56.00	-21.52	QP
4	0.5260	9.85	9.96	19.81	46.00	-26.19	AVG
5	1.2660	17.02	9.82	26.84	56.00	-29.16	QP
6	1.2660	2.00	9.82	11.82	46.00	-34.18	AVG
7	2.5420	17.78	9.90	27.68	56.00	-28.32	QP
8	2.5420	1.12	9.90	11.02	46.00	-34.98	AVG
9	3.2900	21.74	9.92	31.66	56.00	-24.34	QP
10	3.2900	7.82	9.92	17.74	46.00	-28.26	AVG
11	9.0820	29.62	9.91	39.53	60.00	-20.47	QP
12	9.0820	17.04	9.91	26.95	50.00	-23.05	AVG

Remark:

- 1. All readings are Quasi-Peak and Average values.
- 2. Margin = Result (Result = Reading + Factor)-Limit
- 3. Factor= Cable Loss +Antenna Factor-Amplifier Gain



Note: The test voltage is 100-240V, both of which have assessment tests, and the worst test data is in the report.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 Radiated Emission Limits

In case the emission fall within the restricted band specified on 15.105(a)&109(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT

FREQUENCY (MHz)	(MHz) Class A (dBuV/m) (at 3M) PEAK AVERAGE		Class B (dBuV/m) (at 3M)		
FREQUENCT (IVII12)			PEAK	AVERAGE	
Above 1000	80	60	74	54	

Note:

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

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper	
frequency of measurement used in the device	Range (MHz)
or on which the device operates or tunes	Narige (Miriz)
(MHz)	
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz,
Above 1000	whichever is lower



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Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak		
Start Frequency	1000 MHz(Peak/AV)		
Stop Frequency	5th harmonic (Peak/AV)		
DD / \/D (amission in restricted hand)	30MHz to 1000MHz: 100 KHz / 300 KHz		
RB / VB (emission in restricted band)	Above 1000MHz: 1 MHz / 3 MHz		

Receiver Parameter	Setting			
Attenuation	Auto			
Start ~ Stop Frequency	30MHz to 1000MHz: 100 KHz / 300 KHz			
	Above 1000MHz: 1 MHz / 3 MHz			

3.2.2 TEST PROCEDURE

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

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

3.2.3 DEVIATION FROM TEST STANDARD

No deviation



3.2.4 TEST SETUP

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

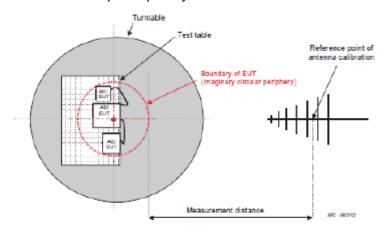


Figure C.1 - Measurement distance

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

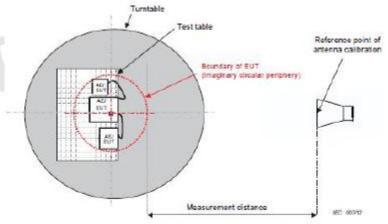


Figure C.1 - Measurement distance

3.2.5 EUT OPERATING CONDITIONS

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



3.2.6 TEST RESULTS

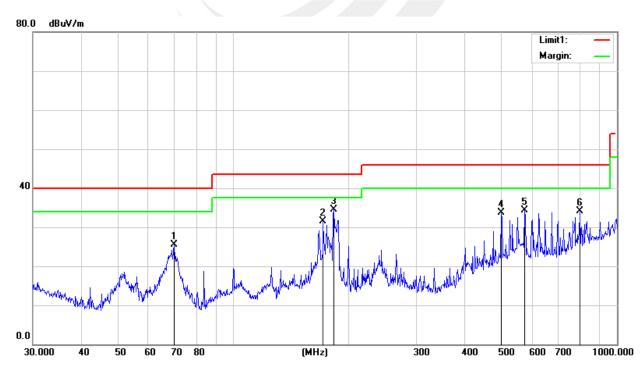
30MHz -1000MHz

Temperature:	24.6 ℃	Relative Humidity:	58%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	70.0903	49.56	-24.09	25.47	40.00	-14.53	QP
2	171.3926	50.89	-19.34	31.55	43.50	-11.95	QP
3	182.5592	54.14	-19.65	34.49	43.50	-9.01	QP
4	499.4247	42.57	-8.91	33.66	46.00	-12.34	QP
5	574.6258	40.92	-6.67	34.25	46.00	-11.75	QP
6	798.9797	37.57	-3.45	34.12	46.00	-11.88	QP

Remark:

- 1. Margin = Result (Result = Reading + Factor)—Limit
- 2. Factor= Cable Loss +Antenna Factor-Amplifier Gain





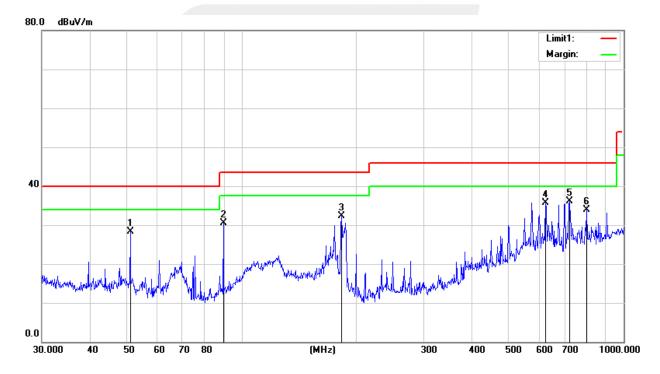
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Temperature:	24.6 ℃	Relative Humidity:	58%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	51.1210	50.09	-21.80	28.29	40.00	-11.71	QP
2	89.5900	50.87	-20.30	30.57	43.50	-12.93	QP
3	182.5592	52.03	-19.65	32.38	43.50	-11.12	QP
4	625.0780	42.16	-6.43	35.73	46.00	-10.27	QP
5	721.7260	40.70	-4.54	36.16	46.00	-9.84	QP
6	801.7863	37.45	-3.49	33.96	46.00	-12.04	QP

Remark:

- 1. Margin = Result (Result = Reading + Factor)—Limit
- 2. Factor= Cable Loss +Antenna Factor-Amplifier Gain



Report No.: STS1801160E01



(1 GHz to 25GHz.)

Temperature:	26 ℃	Relative Humidity:	54%
Phase:	Vertical/Horizontal	Test Mode:	Mode 1
Test Voltage:	AC 120V/60Hz		

PΚ

FK									
Freq.	Ant. Pol	Peak	Amplifier	Loss	Antenna	Orrected	Actual Fs	Peak	Peak
·				Factor	Factor				
(MHz)	H/V	Reading	(dB)	(dB)	(dB/m)	(dB)	Peak	Limit	margin
(1711 12)	1 1/ V	(dBuV)	(ub)	(ub)	(ub/III)	(UD)	(dBuV/m)	(dBuV/m)	(dB)
2345.45	Н	63.56	43.81	4.36	25.93	-12.54	50.04	74.00	-23.96
2514.36	Н	56.38	44.47	6.32	27.64	-10.81	45.87	74.00	-28.13
3234.57	Н	62.59	44.78	6.71	28.22	-9.82	52.74	74.00	-21.26
4412.38	Н	57.15	44.35	8.42	30.44	-5.48	51.66	74.00	-22.34
2245.65	V	60.38	43.81	4.36	25.95	-12.54	46.88	74.00	-27.12
2365.78	V	53.59	44.47	6.32	27.69	-10.83	43.13	74.00	-30.87
3026.38	V	63.58	44.78	6.71	28.26	-9.85	53.77	74.00	-20.23
4025.68	V	55.39	44.35	8.42	30.45	-5.48	49.91	74.00	-24.09
5635.85	V	42.56	44.21	9.35	32.23	-2.59	39.93	74.00	-34.07

AV

Freq.	Ant. Pol	AV	Amplifier	Loss	Antenna Factor	Orrected Factor		AV	AV
(MHz)	H/V	Reading (dBuV)	(dB)	(dB)	(dB/m)	(dB)	AV (dBuV/m)	Limit (dBuV/m)	margin (dB)
2345.45	Н	53.68	43.81	4.36	25.93	-12.54	40.16	54.00	-13.84
2514.36	Н	48.56	44.47	6.32	27.64	-10.81	38.05	54.00	-15.95
3234.57	Н	47.46	44.78	6.71	28.22	-9.82	37.61	54.00	-16.39
4412.38	Н	49.65	44.35	8.42	30.44	-5.48	44.16	54.00	-9.84
2245.65	V	54.23	43.81	4.36	25.95	-12.54	40.73	54.00	-13.27
2365.78	V	45.63	44.47	6.32	27.69	-10.83	35.17	54.00	-18.83
3026.38	V	56.45	44.78	6.71	28.26	-9.85	46.64	54.00	-7.36
4025.68	V	44.29	44.35	8.42	30.45	-5.48	38.81	54.00	-15.19
5635.85	V	37.48	44.21	9.35	32.23	-2.59	34.85	54.00	-19.15



Notes:

- 1. Measuring frequencies from 1 GHz to 25GHz.
- 2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode of the emission shown in Actual FS column.
- 3. The frequency that above $5.5 \mbox{GHz}$ is mainly from the environment noise.

* * * * * END OF THE REPORT * * * *

