

FCC Part 15B TEST REPORT

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Report No: STS1806138E01

Issued for

KINGTA TECHNOLOGY CO., LTD

4F, Building 2, HaoJingDa Science Park, Shangmugu, Shenzhen, China

Product Name:	Bluetooth Speaker	
Brand Name:	N/A	
Model Name:	F2	
Series Model:	TY-WSP200, TY-WSP201, OWL-BTSP06, BLG-SPLASH, Pro Sound, EPIC 3	
FCC ID:	N7KF2	
Test Standard:	FCC Part 15B	

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TEST RESULT CERTIFICATION

Applicant's name	KINGTA TECHNOLOGY CO., LTD
Address	4F, Building 2, HaoJingDa Science Park,Shangmugu,Shenzhen, China
Manufacture's Name:	KINGTA TECHNOLOGY CO., LTD
Address	4F, Building 2, HaoJingDa Science Park,Shangmugu,Shenzhen, China
Product description	

Product name:	Bluetooth Speaker
Brand name:	N/A
Model Name	
Series Model	TY-WSP200, TY-WSP201, OWL-BTSP06, BLG-SPLASH, Pro Sound, EPIC 3
Standards	
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 11 June. 2018~22 June. 2018

Date of Issue 23 June. 2018

Test Result Pass

Testing Engineer :	Barry Li
	(Barry Li)
Technical Manager :	Chepin. tim APPROVAL
	(Chopin Xiao)
Authorized Signatory :	Virtarti
	(Vita Li)

Shenzhen STS Test Services Co., Ltd.

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	23 June. 2018	STS1806138E01	ALL	Initial Issue



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

EMISSION				
Standard	ltem	Result	Remarks	
FCC 47 CFR Part 15 Subpart B	Conducted Emission	PASS	Meet Class B limit	
	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	
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Desistration No.	CNAS Registration No.: L7649; FCC Registration No.: 625569	
Registration No.:	IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;	

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U \cdot where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2 · providing a level of confidence of approximately 95 % °$

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

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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name	Bluetooth S	Bluetooth Speaker		
Brand Name	N/A	N/A		
Model Name	F2			
Series Model		TY-WSP200, TY-WSP201, OWL-BTSP06, BLG-SPLASH, Pro Sound, EPIC 3		
Model Difference	Only differe	nt in model name		
Test sample number	180611060	180611060		
Frequency Bands	Bluetooth	Bluetooth 2402~2480MHz		
Modulation Mode	Bluetooth	BT(1Mbps): GFSK BT EDR(2Mbps): π/4-DQPSK BT EDR(3Mbps): 8DPSK		
Battery	Capacity: 20	Rated Voltage: 3.7V Capacity: 2000mAh Charge Limit: 4.2V		
Hardware version number	F2-3260-27	F2-3260-2725-MAIN-V4		
Software version number	F2-V1.3	F2-V1.3		

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 AUX in From PC

For Conducted Test		
Final Test Mode	Description	
Mode 1 USB AUX in From PC		

For Radiated Test			
Final Test Mode Description			
Mode 1 USB AUX in From PC			

NOTE:

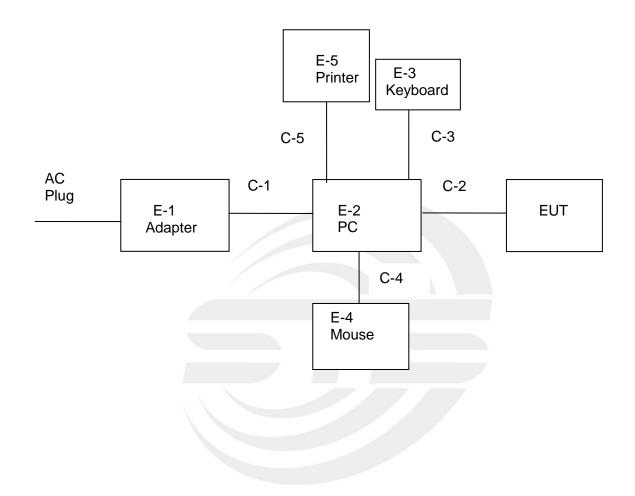
- 1. The test modes were carried out for all operation modes. Only worst case will be show in this report.
- 2. We have be tested for all avaiable U.S. voltage and frequencies(For 120V, /60Hz) for which the device is capable of operation.

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2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



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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.
E-1	Adapter	HP	HSTNN-CA15
E-2	PC	HP	500-320cx
E-3	Keyboard	HP	PR1101U
E-4	Mouse	MOTOSPEED	F66
E-5	Printer	HP	HP1020

Item	Shielded Type	Ferrite Core	Length
C-1	Unshielded	NO	95cm
C-2	USB Cable (FTP)	NO	80cm
C-3	USB Cable (FTP)	NO	85cm
C-4	USB Cable (FTP)	NO	105cm
C-5	USB Cable (FTP)	NO	110cm

Note:

- (1) The support equipment was authorized by SDOC.
- (2) For detachable type I/O cable should be specified the length in cm in ^rLength ^l column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".
- (4) PC is FCC SDOC approved.

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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.

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	102086	2017.10.15	2018.10.14
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2018.11.01
Horn Antenna	SCHWARZBE CK	BBHA 9120D	1343	2017.10.27	2018.10.26
Spectrum Analyzer	Agilent	E4407B	MY50140340	2018.03.08	2019.03.07
Pre-mplifier(1G-18 G)	Agilent	8449B	60538	2017.10.27	2018.10.26
Spectrum Analyzer	Agilent	N9020A	MY49100060	2018.03.08	2019.03.07
Pre-mplifier(0.1M-3 GHz)	EM	EM330	-	2018.03.11	2019.03.10

Radiation Test equipment

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
EMI Test Receiver	R&S	ESCI	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

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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 Quasi-peak Average		Class B			
			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		

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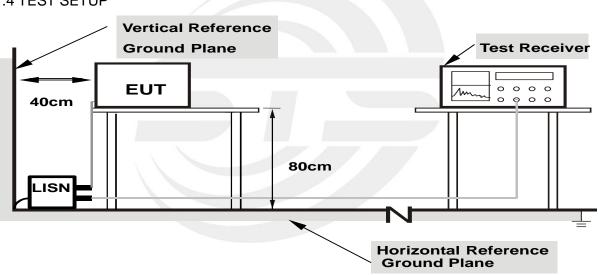
3.1.2 TEST PROCEDURE

- a. 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 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 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.



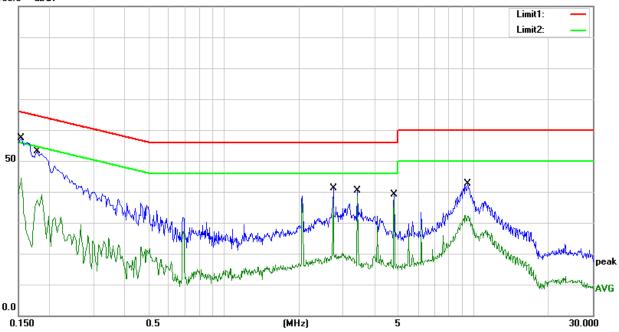
3.1.6 TEST RESULTS

Temperature:	25.5 ℃	Relative Humidity:	63%
Phase:	L	Test Mode:	Mode 1
Test Voltage:	120V 60Hz		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1540	47.66	9.79	57.45	65.78	-8.33	QP
2	0.1540	34.46	9.79	44.25	55.78	-11.53	AVG
3	0.1780	43.37	9.78	53.15	64.58	-11.43	QP
4	0.1780	26.76	9.78	36.54	54.58	-18.04	AVG
5	2.7420	31.20	9.80	41.00	56.00	-15.00	QP
6	2.7420	28.07	9.80	37.87	46.00	-8.13	AVG
7	3.4260	30.66	9.82	40.48	56.00	-15.52	QP
8	3.4260	28.82	9.82	38.64	46.00	-7.36	AVG
9	4.7980	29.33	9.85	39.18	56.00	-16.82	QP
10	4.7980	28.07	9.85	37.92	46.00	-8.08	AVG
11	9.4940	32.36	10.16	42.52	60.00	-17.48	QP
12	9.4940	21.93	10.16	32.09	50.00	-17.91	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
- 100.0 dBu¥





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Temperature:	25.5 ℃	Relative Humidity:	63%
Phase:	Ν	Test Mode:	Mode 1
Test Voltage:	120V 60Hz		

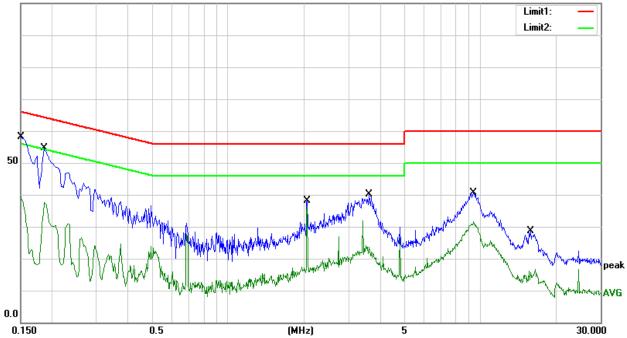
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	48.14	9.75	57.89	66.00	-8.11	QP
2	0.1500	29.86	9.75	39.61	56.00	-16.39	AVG
3	0.1860	44.83	9.84	54.67	64.21	-9.54	QP
4	0.1860	27.82	9.84	37.66	54.21	-16.55	AVG
5	2.0580	28.27	9.88	38.15	56.00	-17.85	QP
6	2.0580	26.39	9.88	36.27	46.00	-9.73	AVG
7	3.6300	30.10	9.93	40.03	56.00	-15.97	QP
8	3.6300	13.33	9.93	23.26	46.00	-22.74	AVG
9	9.4220	30.75	9.92	40.67	60.00	-19.33	QP
10	9.4220	21.66	9.92	31.58	50.00	-18.42	AVG
11	15.8060	18.49	10.14	28.63	60.00	-31.37	QP
12	15.8060	5.55	10.14	15.69	50.00	-34.31	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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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

	Class A (d	BuV/m) (at 3M)	Class B (dBuV/m) (at 3M)		
FREQUENCY (MHz)	PEAK AVERAGE		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	
or on which the device operates or tunes	Range (MHz)
(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, 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)		
RB / VB (emission in restricted	30MHz to 1000MHz: 100 KHz / 300 KHz		
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.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. 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.
- 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.
- 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

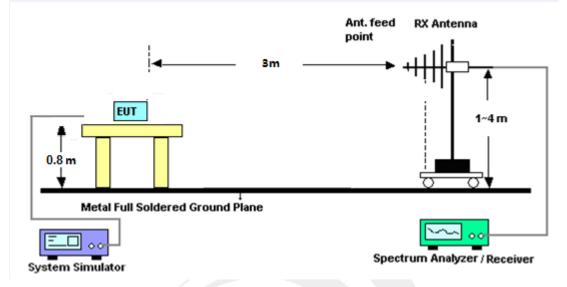
3.2.3 DEVIATION FROM TEST STANDARD

No deviation

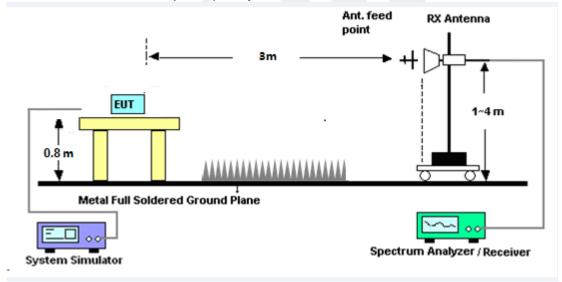


3.2.4 TEST SETUP

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



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



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

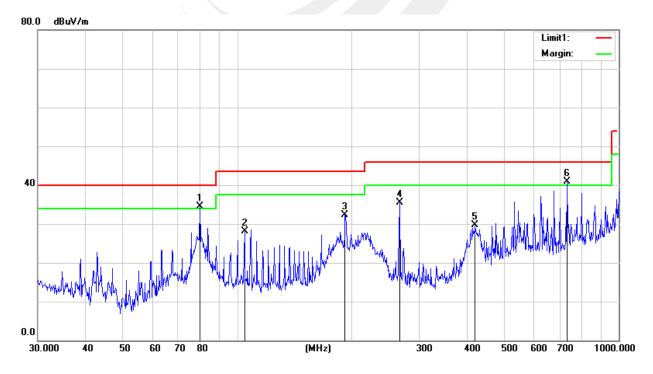
30MHz -1000MHz

Temperature:	25.5 ℃	Relative Humidity:	62%
Phase:	Horizontal	Test Mode:	Mode 1
Test Voltage:	USB AUX in From PC		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	79.8003	57.15	-22.72	34.43	40.00	-5.57	QP
2	104.5361	46.86	-18.81	28.05	43.50	-15.45	QP
3	191.7450	52.50	-20.24	32.26	43.50	-11.24	QP
4	266.6090	50.77	-15.33	35.44	46.00	-10.56	QP
5	420.5803	40.60	-10.90	29.70	46.00	-16.30	QP
6	731.9203	44.83	-3.97	40.86	46.00	-5.14	QP

Remark:

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



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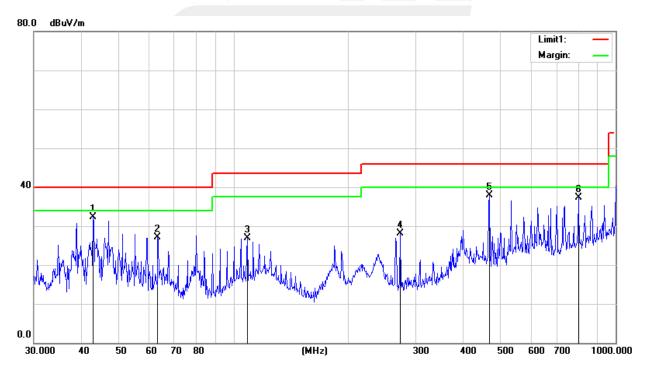
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Temperature:	25.5 ℃	Relative Humidity:	62%
Phase:	Vertical	Test Mode:	Mode 1
Test Voltage:	USB AUX in From PC		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	42.8998	50.20	-17.83	32.37	40.00	-7.63	QP
2	63.3132	51.32	-24.26	27.06	40.00	-12.94	QP
3	108.6470	45.30	-18.46	26.84	43.50	-16.66	QP
4	273.2341	43.65	-15.59	28.06	46.00	-17.94	QP
5	467.2350	47.70	-9.87	37.83	46.00	-8.17	QP
6	798.9797	40.70	-3.45	37.25	46.00	-8.75	QP

Remark:

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



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(1 GHz to 25GHz.)

Temperature:	26 ℃	Relative Humidity:	54%
Phase:	Vertical/Horizontal	Test Mode:	Mode 1
Test Voltage:	USB AUX in From PC		

PΚ

Freq.	Ant. Pol	Peak	Amplifier	Loss	Antenna Factor	Orrected Factor	Reading	Peak
(MHz)	H/V	Actual Fs	(dB)	(dB)	(dB/m)	(dB)	Peak	Limit
~ /		(dBuV)					(dBuV/m)	(dBuV/m)
2512.63	Н	56.20	43.80	5.40	25.90	-12.50	68.70	74.00
2658.20	Н	48.41	44.40	6.00	27.60	-10.80	59.21	74.00
3546.62	Н	55.23	44.70	6.70	28.20	-9.80	65.03	74.00
4546.52	Н	47.45	44.30	8.42	30.40	-5.48	52.93	74.00
2512.63	V	58.25	43.80	5.40	25.90	-12.50	70.75	74.00
2658.20	V	48.54	44.40	6.00	27.60	-10.80	59.34	74.00
3546.62	V	57.56	44.70	6.70	28.20	-9.80	67.36	74.00
4546.52	V	47.15	44.30	8.42	30.40	-5.48	52.63	74.00
5745.28	V	41.56	44.20	9.70	32.00	-2.50	44.06	74.00

AV

~ •								
Freq.	Ant. Pol	AV	Amplifier	Loss	Antenna Factor	Orrected Factor	Reading	AV
(MHz)	H/V	Actual Fs (dBuV)	(dB)	(dB)	(dB/m)	(dB)	AV (dBuV/m)	Limit (dBuV/m)
2512.63	Н	38.06	43.80	5.40	25.90	-12.50	50.56	54.00
2658.20	Н	28.54	44.40	6.00	27.60	-10.80	39.34	54.00
3546.62	Н	37.45	44.70	6.70	28.20	-9.80	47.25	54.00
4546.52	Н	27.15	44.30	8.42	30.40	-5.48	32.63	54.00
2512.63	V	35.29	43.80	5.40	25.90	-12.50	47.79	54.00
2658.20	V	26.53	44.40	6.00	27.60	-10.80	37.33	54.00
3546.62	V	34.15	44.70	6.70	28.20	-9.80	43.95	54.00
4546.52	V	25.63	44.30	8.42	30.40	-5.48	31.11	54.00
5745.28	V	21.42	44.20	9.70	32.00	-2.50	23.92	54.00

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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 6GHz is mainly from the environment noise.

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



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