



FCC TEST REPORT

ZHENGZHOU YSAIR TECHNOLOGY CO.,LTD

Astronomy Camera

Test Model: SV505C

Prepared for : ZHENGZHOU YSAIR TECHNOLOGY CO.,LTD
Address : ROOM 709, SANJIANG BUILDING, NO.170
NANYANG ROAD, HUIJI DISTRICT, ZHENGZHOU
HENAN CHINA

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample : August 25, 2022
Number of tested samples : 2
Sample No. : A082522097-1, A082522097-2
Serial number : Prototype
Date of Test : August 25, 2022 ~ August 27, 2022
Date of Report : August 27, 2022





FCC SDoC TEST REPORT FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014	
Report Reference No.	: LCSA082522097E
Date Of Issue	: August 27, 2022
Testing Laboratory Name	: Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China
Testing Location/ Procedure...	: Full application of Harmonised standards ☒ Partial application of Harmonised standards ☐ Other standard testing method ☐
Applicant's Name	: ZHENGZHOU YSAIR TECHNOLOGY CO.,LTD
Address	: ROOM 709, SANJIANG BUILDING, NO.170 NANYANG ROAD, HUIJI DISTRICT, ZHENGZHOU HENAN CHINA
Test Specification	
Standard	: FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014
Test Report Form No.	: LCSEMC-1.0
TRF Originator	: Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF	: Dated 2011-03
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Test Item Description. : Astronomy Camera	
Trade Mark	: SVBONY
Test Model	: SV505C
Ratings	: DC 5V by Computer port
Result	: Positive

Compiled by:

Li Huan/ Administrator

Supervised by:

Cary Luo/ Technique principal

Approved by:

Gavin Liang/ Manager



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**FCC -- TEST REPORT**

Test Report No. :	LCSA082522097E	<u>August 27, 2022</u> Date of issue
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Test Model	: SV505C
EUT.....	: Astronomy Camera
Applicant.....	: ZHENGZHOU YSAIR TECHNOLOGY CO.,LTD
Address.....	: ROOM 709, SANJIANG BUILDING, NO.170 NANYANG ROAD, HUIJI DISTRICT, ZHENGZHOU HENAN CHINA
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: HONG KONG SVBONY TECHNOLOGY CO.,LTD
Address.....	: UNIT B, 5TH FLOOR, GALLO COMMERCIAL BUILDING, 114-118 LOCKHART ROAD, WANCHAI, HONG KONG
Telephone.....	: /
Fax.....	: /
Factory.....	: HONG KONG SVBONY TECHNOLOGY CO.,LTD
Address.....	: UNIT B, 5TH FLOOR, GALLO COMMERCIAL BUILDING, 114-118 LOCKHART ROAD, WANCHAI, HONG KONG
Telephone.....	: /
Fax.....	: /

Test Result according to the standards on page 6: **Positive**

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.



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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	August 27, 2022	Initial Issue	---





TABLE OF CONTENTS

Test Report Description	Page
1. SUMMARY OF STANDARDS AND RESULTS	6
1.1. Description of Standards and Results	6
2. GENERAL INFORMATION	7
2.1. Description of Device (EUT)	7
2.2. Support Equipment List.....	8
2.3 External I/O Cable.....	8
2.4. Description of Test Facility	8
2.5. Statement of the Measurement Uncertainty	9
2.6. Measurement Uncertainty.....	9
3. TEST RESULTS.....	10
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT	10
3.2. Radiated emission Measurement.....	14
4. TEST SETUP PHOTOGRAPHS	21
5. EXTERIOR PHOTOGRAPHS OF THE EUT	21
6. INTERIOR PHOTOGRAPHS OF THE EUT.....	21





1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Limits	Results
Conducted disturbance at mains terminals	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS
Radiated disturbance	FCC 47 CFR Part 15 Subpart B, Class B, ANSI C63.4 -2014	Class B	PASS
N/A is an abbreviation for Not Applicable.			

Test mode:

Mode 1	Camera mode	Record
Mode 2	LAN mode	Pre-scan
***Note: All test modes were tested, but we only recorded the worst case in this report.		





2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT : Astronomy Camera

Trade Mark : SVBONY

Test Model : SV505C

Power Supply : DC 5V by Computer port

Highest internal frequency (Fx) : Fx > 1 GHz

Highest internal frequency (Fx)	Highest measured frequency
Fx ≤ 108 MHz	1 GHz
108 MHz < Fx ≤ 500 MHz	2 GHz
500 MHz < Fx ≤ 1 GHz	5 GHz
Fx > 1 GHz	5 × Fx up to a maximum of 6 GHz

NOTE 1 For FM and TV broadcast receivers, Fx is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies.

Where Fx is unknown, the radiated emission measurements shall be performed up to 6 GHz.



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2.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
Lenovo	Notebook	TP00094A	--	FCC
Lenovo	ADAPTER for Notebook	ADLX65YCC3 A	--	FCC

Note: Auxiliary equipment is provided by the laboratory.

2.3 External I/O Cable

I/O Port Description	Quantity	Cable
Type-B Port	1	N/A
LAN Port	1	N/A

2.4. Description of Test Facility

Site Description

EMC Lab.

: NVLAP Accreditation Code is 600167-0.
FCC Designation Number is CN5024.
CAB identifier is CN0071.
CNAS Registration Number is L4595.
Test Firm Registration Number: 254912.



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2.5. Statement of the Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements” and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.6. Measurement Uncertainty

Test	Parameters	Expanded Uncertainty (U _{lab})	Expanded Uncertainty (U _{cispr})
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 2.63 dB ± 2.35 dB	± 3.8 dB ± 3.4 dB
Radiated Emission	Level accuracy (9kHz to 30MHz)	± 3.68 dB	N/A
Radiated Emission	Level accuracy (30MHz to 1000MHz)	± 3.48 dB	± 5.3 dB
Radiated Emission	Level accuracy (above 1000MHz)	± 3.90 dB	± 5.2 dB

(1) Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

(2) The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.





3. TEST RESULTS

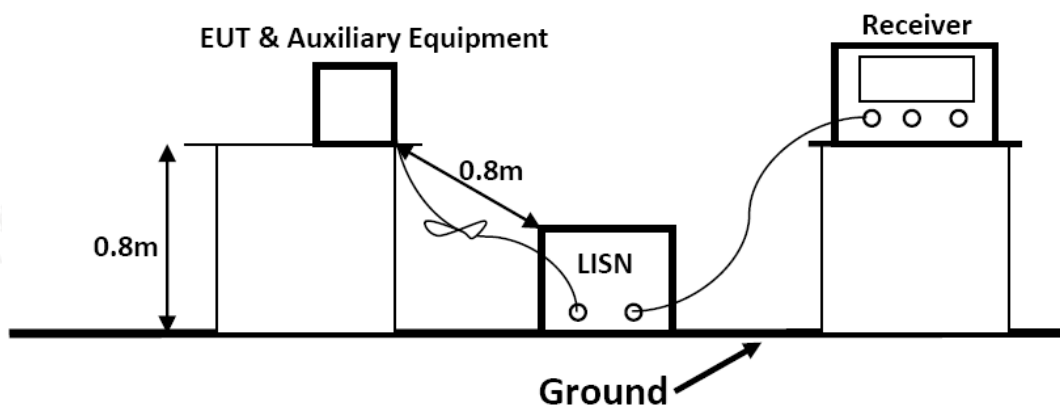
3.1. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	AUDIX	E3	/	N/A	N/A
2	EMI Test Receiver	R&S	ESR3	102312	2022-02-16	2023-02-15
3	Artificial Mains	R&S	ENV216	101288	2022-06-16	2023-06-15
4	Pulse Limiter	R&S	ESH3-Z2	102750-NB	2022-08-17	2023-08-16
5	Impedance Stabilization Network	TESEQ	ISN T800	45130	2021-11-16	2022-11-15

3.1.2. Block Diagram of Test Setup



3.1.3. Test Standard

Power Line Conducted Emission Limits (Class B)

Frequency (MHz)			Limit (dB μ V)	
			Quasi-peak Level	Average Level
0.15	~	0.50	66.0 ~ 56.0 *	56.0 ~ 46.0 *
0.50	~	5.00	56.0	46.0
5.00	~	30.00	60.0	50.0

NOTE1-The lower limit shall apply at the transition frequencies.

NOTE2-The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

3.1.4. EUT Configuration on Test

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.



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3.1.5. Operating Condition of EUT

3.1.5.1. Setup the EUT as shown on Section 3.1.2

3.1.5.2. Turn on the power of all equipments.

3.1.5.3. Let the EUT work in measuring Mode 1 and measure it.

3.1.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC/ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of the test receiver is set at 9kHz.

The frequency range from 150kHz to 30MHz is investigated

3.1.7. Test Results

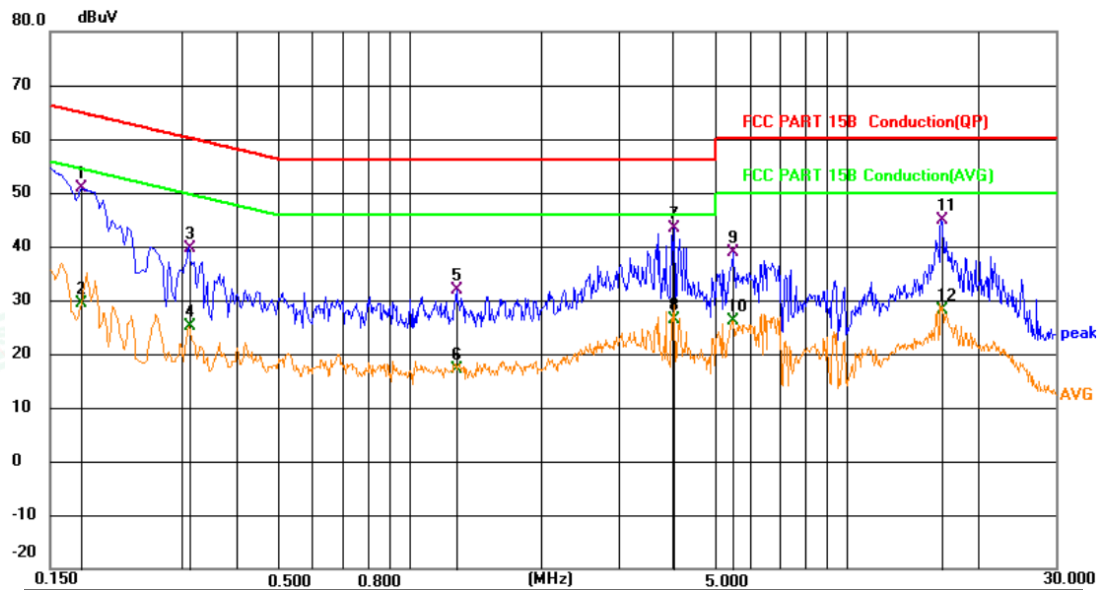
PASS.

The test result please refer to the next page.





Test Model	SV505C	Test Mode	Mode 1
Environmental Conditions	22.5°C, 53.7% RH	Test Engineer	Monkey Li
Pol	Line	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1771	31.14	19.63	50.77	64.62	-13.85	QP	
2		0.1771	9.85	19.63	29.48	54.62	-25.14	AVG	
3		0.3121	20.12	19.63	39.75	59.91	-20.16	QP	
4		0.3121	5.40	19.63	25.03	49.91	-24.88	AVG	
5		1.2796	12.24	19.66	31.90	56.00	-24.10	QP	
6		1.2796	-2.62	19.66	17.04	46.00	-28.96	AVG	
7	*	4.0381	23.73	19.70	43.43	56.00	-12.57	QP	
8		4.0381	6.74	19.70	26.44	46.00	-19.56	AVG	
9		5.4780	19.14	19.70	38.84	60.00	-21.16	QP	
10		5.4780	6.33	19.70	26.03	50.00	-23.97	AVG	
11		16.4041	24.92	19.96	44.88	60.00	-15.12	QP	
12		16.4041	8.14	19.96	28.10	50.00	-21.90	AVG	



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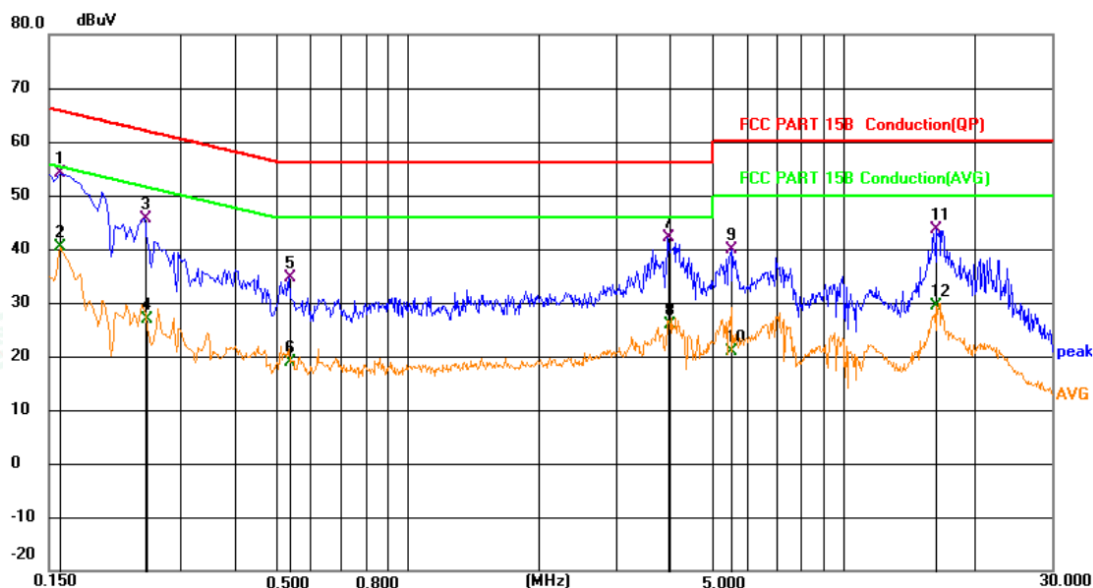
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Test Model	SV505C	Test Mode	Mode 1
Environmental Conditions	22.5°C, 53.7% RH	Test Engineer	Monkey Li
Pol	Neutral	Test Voltage	AC 120V/60Hz



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1590	34.40	19.63	54.03	65.52	-11.49	QP	
2		0.1590	20.64	19.63	40.27	55.52	-15.25	AVG	
3		0.2491	25.98	19.63	45.61	61.79	-16.18	QP	
4		0.2508	7.29	19.63	26.92	51.73	-24.81	AVG	
5		0.5326	15.04	19.65	34.69	56.00	-21.31	QP	
6		0.5371	-0.73	19.65	18.92	46.00	-27.08	AVG	
7		3.9616	22.41	19.80	42.21	56.00	-13.79	QP	
8		4.0021	6.17	19.80	25.97	46.00	-20.03	AVG	
9		5.5231	20.11	19.80	39.91	60.00	-20.09	QP	
10		5.5636	0.98	19.80	20.78	50.00	-29.22	AVG	
11		16.3455	23.74	19.96	43.70	60.00	-16.30	QP	
12		16.3455	9.41	19.96	29.37	50.00	-20.63	AVG	

Note: Pre-Scan all mode, Thus record worse case mode result in this report.

Margin= Reading level + Correct factor – Limit

Correct Factor= Lisen Factor+Cable Factor



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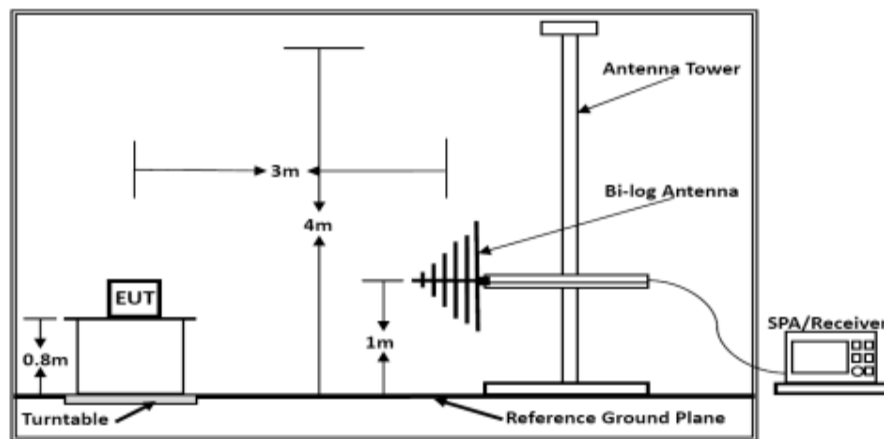
3.2. Radiated emission Measurement

3.2.1. Test Equipment

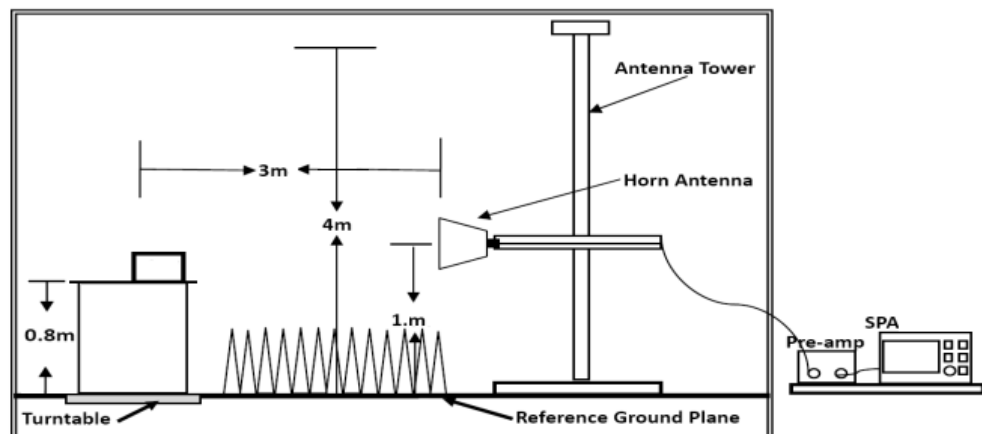
The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	EMI Test Software	AUDIX	E3	/	N/A	N/A
2	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2022-06-16	2023-06-15
3	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
4	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2021-09-12	2024-09-11
5	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2021-09-05	2024-09-04
6	EMI Test Receiver	R&S	ESPI	101940	2022-08-17	2023-08-16
7	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2021-11-16	2022-11-15
8	Broadband Preamplifier	/	BP-01M18G	P190501	2022-06-16	2023-06-15

3.2.2. Block Diagram of Test Setup



Below 1GHz



Above 1GHz



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3.2.3. Radiated Emission Limit (Class B)

Limits for Radiated Disturbance Below 1GHz

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46
960 ~ 1000	3	500	54
Remark: (1) Emission level $(\text{dB})\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$ (2) The smaller limit shall apply at the cross point between two frequency bands. (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.			
Limits for Radiated Emission Above 1GHz			
Frequency (MHz)	Distance (Meters)	Peak Limit ($\text{dB}\mu\text{V/m}$)	Average Limit ($\text{dB}\mu\text{V/m}$)
Above 1000	3	74	54
***Note: The lower limit applies at the transition frequency.			

3.2.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.2.5. Operating Condition of EUT

3.2.5.1. Setup the EUT as shown in Section 3.2.2.

3.2.5.2. Let the EUT work in test Mode 1 and measure it.

3.2.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

3.2.7. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver





Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average

The frequency range from 30MHz to 1000MHz and above 1000MHz is checked.

3.2.8. Radiated Emission Noise Measurement Result

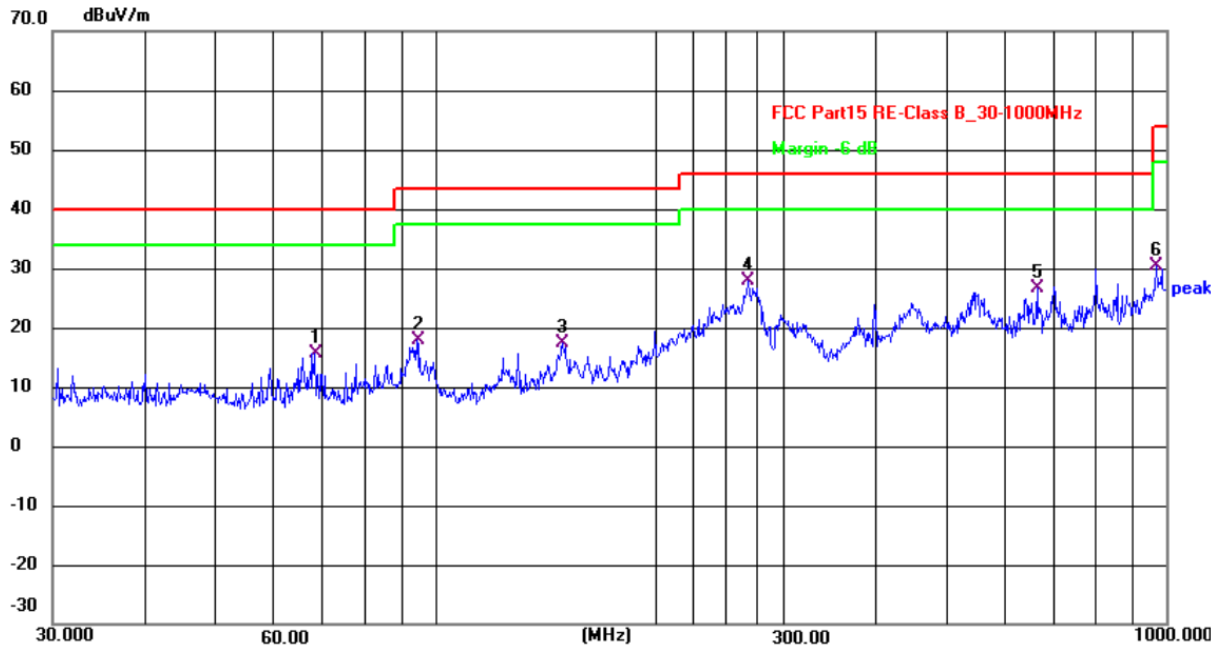
PASS.

The scanning waveforms please refer to the next page.





Test Model	SV505C	Test Mode	Mode 1
Environmental Conditions	23.8°C, 52.3% RH	Detector Function	Quasi-peak
Pol	Vertical	Distance	3m
Test Engineer	Monkey Li	Test Voltage	DC 5V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	68.3908	34.99	-19.36	15.63	40.00	-24.37	QP
2	94.4283	36.56	-18.57	17.99	43.50	-25.51	QP
3	149.4857	37.15	-19.88	17.27	43.50	-26.23	QP
4	268.4852	43.37	-15.42	27.95	46.00	-18.05	QP
5	665.8034	37.73	-11.06	26.67	46.00	-19.33	QP
6	968.9337	38.37	-7.87	30.50	54.00	-23.50	QP



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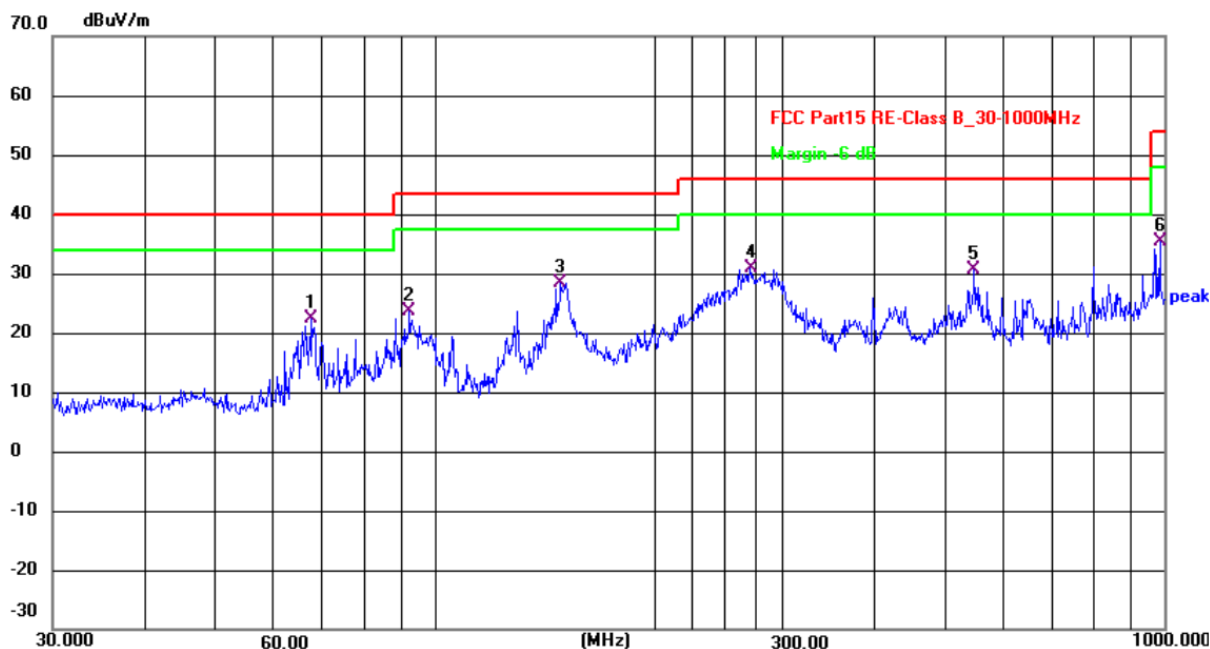
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Test Model	SV505C	Test Mode	Mode 1
Environmental Conditions	23.8°C, 52.3% RH	Detector Function	Quasi-peak
Pol	Horizontal	Distance	3m
Test Engineer	Monkey Li	Test Voltage	DC 5V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	67.9128	41.60	-19.33	22.27	40.00	-17.73	QP
2	92.4624	42.30	-18.71	23.59	43.50	-19.91	QP
3	148.9624	48.34	-19.93	28.41	43.50	-15.09	QP
4	270.3748	46.39	-15.42	30.97	46.00	-15.03	QP
5	549.0193	42.36	-11.83	30.53	46.00	-15.47	QP
6	986.0716	42.75	-7.40	35.35	54.00	-18.65	QP

Note: Pre-Scan all mode, Thus record worse case mode result in this report.

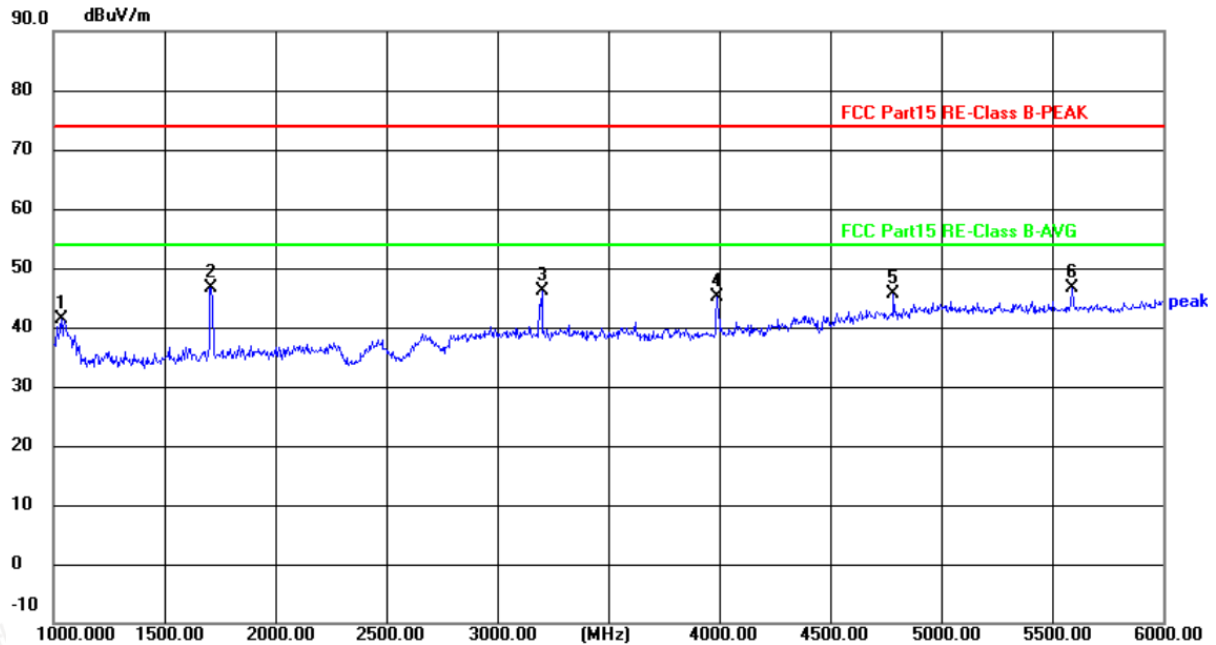
Margin= Reading level + Correct factor – Limit

Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor





Test Model	SV505C	Test Mode	Mode 1 (Above 1GHz)
Environmental Conditions	23.9°C, 52.0% RH	Detector Function	Peak + AV
Pol	Vertical	Distance	3m
Test Engineer	Monkey Li	Test Voltage	DC 5V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1035.000	56.85	-15.41	41.44	74.00	-32.56	peak
2	1710.000	61.08	-14.35	46.73	74.00	-27.27	peak
3	3200.000	55.62	-9.52	46.10	74.00	-27.90	peak
4	3990.000	53.59	-8.57	45.02	74.00	-28.98	peak
5	4785.000	50.73	-5.18	45.55	74.00	-28.45	peak
6	5590.000	49.81	-3.30	46.51	74.00	-27.49	peak



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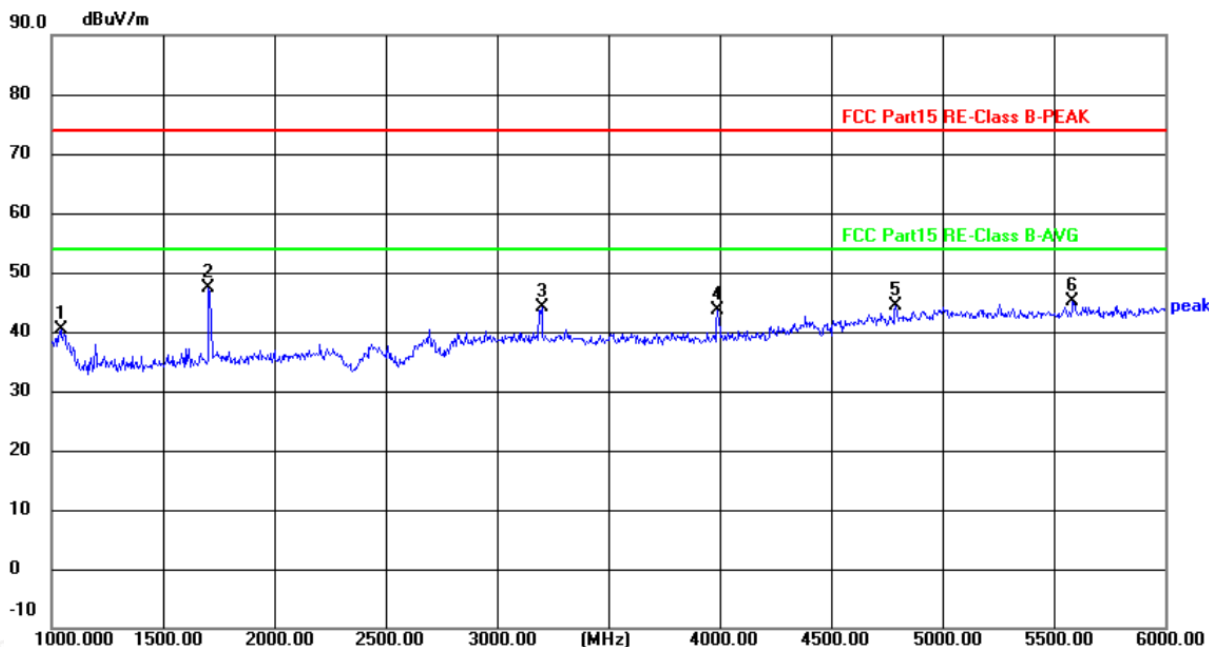
Add: 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

Scan code to check authenticity



Test Model	SV505C	Test Mode	Mode 1 (Above 1GHz)
Environmental Conditions	23.9℃, 52.0% RH	Detector Function	Peak + AV
Pol	Horizontal	Distance	3m
Test Engineer	Monkey Li	Test Voltage	DC 5V



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	1040.000	55.83	-15.41	40.42	74.00	-33.58	peak
2	1705.000	61.79	-14.36	47.43	74.00	-26.57	peak
3	3200.000	53.67	-9.52	44.15	74.00	-29.85	peak
4	3990.000	52.29	-8.57	43.72	74.00	-30.28	peak
5	4790.000	49.46	-5.15	44.31	74.00	-29.69	peak
6	5585.000	48.52	-3.29	45.23	74.00	-28.77	peak

Note: Pre-Scan all mode, Thus record worse case mode result in this report.

Margin= Reading level + Correct factor – Limit

Correct Factor=Antenna Factor+Cable Factor- Pre-amplifier Factor



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4. TEST SETUP PHOTOGRAPHS

Please refer to separated files for External Photos of the EUT.

5. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

6. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF TEST REPORT-----

