

Test Report

Applicant : SHENZHEN HUACHUANG AGES
TECHNOLOGYCO.; LTD
5th Floor, Building 4, Lianjian Industrial Park,
Address : Dalang Street, Longhua New District, Shenzhen,
China
Product Name : WiFi security camera
Brand Mark : Neye
Model : SP100
Series model : K15(Dual lens),K15
FCC ID : 2A9XK-SP100
Report Number : BLA-EMC-202410-A5102
Date of Receipt : Oct.21,2024
Date of Test : Oct.21,2024 to Dec.23,2024
Test Standard : 47 CFR Part 15, Subpart C 15.247
Test Result : Pass

Compiled by:

charlie

Review by:

Sueels

Approved by:

J. Zheng

Issued Date:

Dec.23, 2024



BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

Address: Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District,
Shenzhen, Guangdong Province, China



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Revise Record

Version No.	Date	Description
01	Dec.23,2024	Original

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1 General information

1.1 General information

Applicant	SHENZHEN HUACHUANG AGES TECHNOLOGYCO.; LTD
Address	5th Floor, Building 4, Lianjian Industrial Park, Dalang Street, Longhua New District, Shenzhen, China
Manufacturer	SHENZHEN HUACHUANG AGES TECHNOLOGYCO.; LTD
Address	5th Floor, Building 4, Lianjian Industrial Park, Dalang Street, Longhua New District, Shenzhen, China
Factory	SHENZHEN HUACHUANG AGES TECHNOLOGYCO.; LTD
Address	5th Floor, Building 4, Lianjian Industrial Park, Dalang Street, Longhua New District, Shenzhen, China

1.2 General description of EUT

Product name	WiFi security camera
Model no.	SP100
Series model	K15(Dual lens),K15
Desc of series model	Except for the RF module part(Same structural parameters), the model name, exterior shape and size, color, and light panel are different.
Operation Frequency	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Nominal Bandwidth	20MHz&40MHz
Channel Spacing	5MHz
Number of Channels	802.11b/g/n(HT20): 11 802.11n(HT40):9
Antenna Type	FPC antenna
Antenna Gain	2.73dBi(Provided by customer)
Power supply or adapter information	
Hardware version	FH28-136MP-WF

Engineer sample no	BLA-EMC-202410-A51
<i>Note: All test items are tested on the main model: SP 100 and series model: K15 (dual lens), K15, and are reflected in the report</i>	

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2 Test summary

No.	Test item	FCC standard	Test Method(Clause)	Result
1	Antenna Requirement	§15.203	N/A	Pass
2	Conducted Emissions at AC Power Line (150kHz-30MHz)	§15.207	ANSI C63.10-2013 Clause 6.2	Pass
3	Conducted Peak Output Power	§15.247 (b)(3)	ANSI C63.10-2013, Clause 11.9.1.3	Pass
4	Minimum 6dB Bandwidth	§15.247 (a)(2)	ANSI C63.10-2013, Clause 11.8.1	Pass
5	Power Spectrum Density	§15.247 (e)	ANSI C63.10-2013, Clause 11.10.2	Pass
6	Conducted Band Edges Measurement	§15.247(d)	ANSI C63.10-2013, Clause 11.13.3.2	Pass
7	Conducted Spurious Emissions	§15.247(d)	ANSI C63.10-2013, Clause 11.11	Pass
8	Radiated Spurious Emissions	§15.247 (d) §15.209	ANSI C63.10-2013 Clause 6.4&6.5&6.6	Pass
9	Radiated Emissions which fall in the restricted bands	§15.247 (d) §15.205	ANSI C63.10-2013 Clause 6.10.5	Pass

N/A: Not Applicable

3 Test Configuration

3.1 Test mode

Test Mode ^{Note 1}	Description
TX	Keep the EUT in continuously transmitting mode with modulation. (Duty cycle>98%)
RX	Keep the EUT in receiving mode
TX Low channel	Keep the EUT in continuously transmitting mode in low channel
TX middle channel	Keep the EUT in continuously transmitting mode in middle channel
TX high channel	Keep the EUT in continuously transmitting mode in high channel

Note 1: The EUT was configured to measure its highest possible emission and/or immunity level. The test modes were adapted according to the operation manual for use

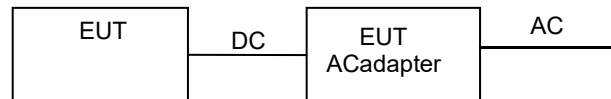
3.2 Operation Frequency each of channel

Operation Frequency each of channel(802.11b/g/n HT20)					
Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	5	2432MHz	9	2452MHz
2	2417MHz	6	2437MHz	10	2457MHz
3	2422MHz	7	2442MHz	11	2462MHz
4	2427MHz	8	2447MHz	--	--

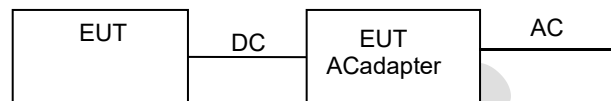
(802.11b/g/n HT20)		(802.11n HT40)	
Channel	Frequency	Channel	Frequency
The lowest channel	2412MHz	The lowest channel	2422MHz
The middle channel	2437MHz	The middle channel	2437MHz
The Highest channel	2462MHz	The Highest channel	2452MHz

3.3 Configuration diagram of EUT

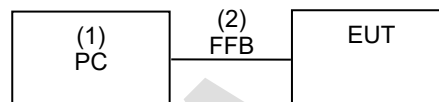
Radiated emission:



Conducted emissions:



RF Test:



Note: see test photographs attached in APPENDIX A for the actual connections between Product and support equipment.

Support equipment

Name	Device type	Brand	Model	Series No	Remark
(1)	PC	lenovo	E460C	N/A	N/A
(2)	Fixed frequency board	N/A	N/A	N/A	N/A

Note: See test photographs attached in APPENDIX A for the actual connections between Product and support equipment.

3.4 Auxiliary equipment

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	lenovo	E460C	N/A	From lab (No.BLA-ZC-BS-2022005)
Router	TP-link	N/A	N/A	From lab (BLA-ZC-BS-2022155)

Note:

“--” mean no any auxiliary device during testing.

3.5 Test environment

Environment	Temperature	Voltage
Normal	25°C	DC 12V

4 Laboratory information

4.1 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

Company name:	BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Address:	Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
Telephone:	+86-755-28682673
FAX:	+86-755-28682673

4.2 Measurement uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

Parameter	Expanded Uncertainty
Radiated Emission(9kHz-30MHz)	$\pm 4.34\text{dB}$
Radiated Emission(30Mz-1000MHz)	$\pm 4.24\text{dB}$
Radiated Emission(1GHz-18GHz)	$\pm 4.68\text{dB}$
AC Power Line Conducted Emission(150kHz-30MHz)	$\pm 3.45\text{dB}$
Occupied Channel Bandwidth	$\pm 5\%$
RF output power, conducted	$\pm 1.5\text{ dB}$
Power Spectral Density, conducted	$\pm 3.0\text{ dB}$
Unwanted Emissions, conducted	$\pm 3.0\text{ dB}$
Temperature	$\pm 3\text{ }^{\circ}\text{C}$
Supply voltages	$\pm 3\%$
Time	$\pm 5\%$

5 Test equipment

Radiated Spurious Emissions (Below 1GHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-002-01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-002-02	Control room	966 control room	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-009	EMI receiver	ESR7	R&S	101199	2024/08/08	2025/08/07
BLA-EMC-043	Loop antenna	FMZB1519B	Schwarzbeck	00102	2024/06/29	2026/06/28
BLA-EMC-065	Broadband antenna	VULB9168	Schwarzbeck	01065P	2024/06/29	2026/06/27
BLA-XC-01	Coaxial Cable	N/A	BlueAsia	V01	N/A	N/A
BLA-XC-02	Coaxial Cable	N/A	BlueAsia	V02	N/A	N/A

Radiated Spurious Emissions (Above 1GHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-001-01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2023/11/16	2026/11/15
BLA-EMC-001-02	Control Room	966 control room	SKET	N/A	2023/11/16	2025/11/15
BLA-EMC-008	Spectrum	FSP40	R&S	100817	2024/08/08	2025/08/07
BLA-EMC-012	Broadband antenna	VULB9168	Schwarzbeck	00836 P:00227	2022/10/12	2025/10/11
BLA-EMC-013	Horn Antenna	BBHA9120D	Schwarzbeck	01892	2024/06/29	2026/06/28
BLA-EMC-014	Amplifier	PA_000318G-45	SKET	PA201804 3003	2024/08/08	2025/08/07
BLA-EMC-046	Filter bank	2.4G/5G Filter bank	SKET	N/A	2024/06/28	2025/06/27
BLA-EMC-061	Receiver	ESPI7	R&S	101477	2024/06/28	2025/06/27
BLA-EMC-066	Amplifier	LNPA_30M01 G-30	SKET	SK202106 0801	2024/06/28	2025/06/27
BLA-EMC-086	Amplifier	LNPA_18G40 G-50dB	SKET	SK202207 1301	2024/06/28	2025/06/27
BLA-EMC-087	Horn Antenna	BBHA 9170	Schwarzbeck	1106	2024/06/29	2026/06/28
BLA-XC-03	Coaxial Cable	N/A	BlueAsia	V03	N/A	N/A
BLA-XC-04	Coaxial Cable	N/A	BlueAsia	V04	N/A	N/A

Conducted Emissions at Mains Terminals (150 kHz-30MHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-003-001	Shield room	8*3*3	SKET	N/A	2023/11/16	2025/11/15
BLA-EMC-009	EMI receiver	ESR7	R&S	101199	2024/08/08	2025/08/07
BLA-EMC-011	LISN	ENV216	R&S	101372	2024/08/08	2025/08/07
BLA-EMC-033	Impedance transformer	DC-2GHz	DFXP	N/A	2024/06/28	2025/06/27
BLA-EMC-041	LISN	AT166-2	ATTEN	AKK1806 000003	2024/08/08	2025/08/07
BLA-EMC-045	Impedance stable network	ISNT8-cat 6	TESEQ	53580	2024/08/08	2025/08/07
BLA-EMC-095	Single-channel vehicle artificial power network	NNBM 8124	Schwarzbeck	01045	2024/06/28	2025/06/27
BLA-EMC-096	Single-channel vehicle artificial power network	NNBM 8124	Schwarzbeck	01075	2024/06/28	2025/06/27
BLA-XC-05	Coaxial Cable	N/A	BlueAsia	V05	N/A	N/A

RF conducted

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-003-003	Shield room	5*3*3	SKET	N/A	2023/11/16	2025/11/15
BLA-EMC-016	Signal Generator	N5182A	Agilent	MY52420567	2024/06/28	2025/06/27
BLA-EMC-038	Spectrum	N9020A	Agilent	MY49100060	2024/08/08	2025/08/07
BLA-EMC-042	Power sensor	RPR3006W	DARE	14I00889SN042	2024/08/08	2025/08/07
BLA-EMC-044	Radio communication tester	CMW500	R&S	132429	2024/08/08	2025/08/07
BLA-EMC-064	Signal Generator	N5182B	KEYSIGHT	MY58108892	2024/06/28	2025/06/27
BLA-EMC-079	Spectrum	N9020A	Agilent	MY54420161	2024/08/08	2025/08/07
BLA-EMC-088	Audio Analyzer	ATS-1	Audio Precision	ATS141094	2024/06/28	2025/06/27

Test Software Record

Software No.	Software Name	Manufacture	Software version	Test site
BLA-EMC-S001	EZ-EMC	EZ	EEMC-3A1+	RE
BLA-EMC-S002	EZ-EMC	EZ	EEMC-3A1+	RE
BLA-EMC-S010	MTS 8310	MW	2.0.0.0	RF
BLA-EMC-S003	EZ-EMC	EZ	EEMC-3A1+	CE

6 Test result

6.1 Antenna requirement

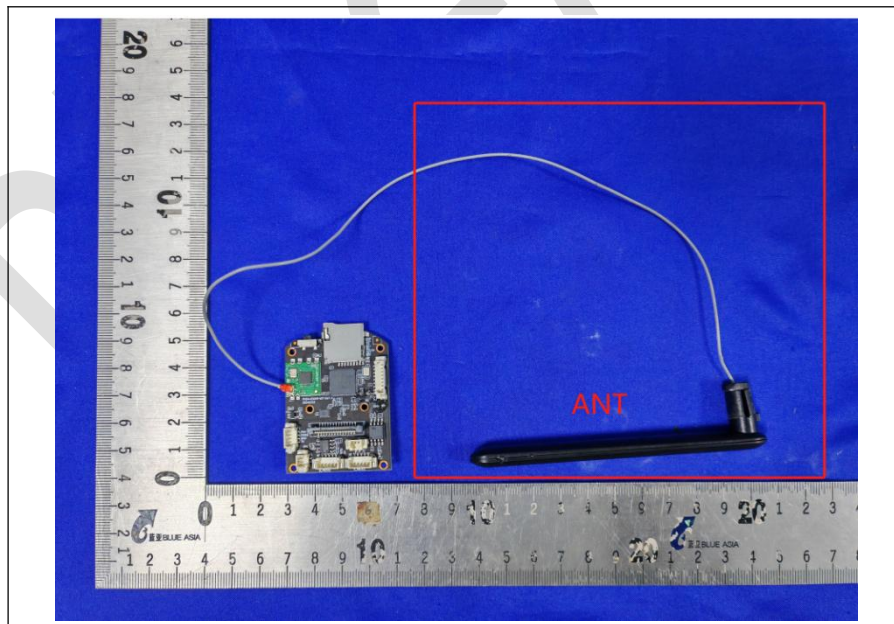
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	N/A

6.1.1 Requirement

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of a so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT antenna:

The antenna is internal FPC antenna. The best case gain of the antenna is 3dBi from 2402~2480MHz



6.2 Conducted emissions at AC power line (150 kHz-30 MHz)

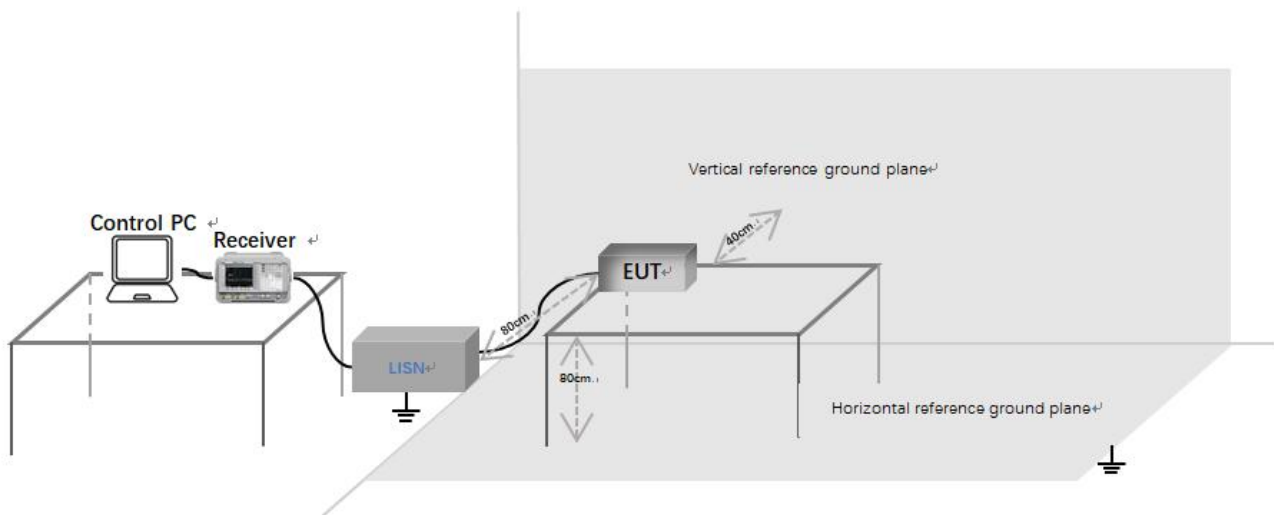
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.2.1 Limit

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

6.2.2 Test setup



Description of test setup connection:

- Connect the control PC to the receiver through a USB to GPIB cable;
- The receiver is connected to the LISN through a coaxial line;
- Connect the power port of LISN to the EUT.

6.2.3 Procedure

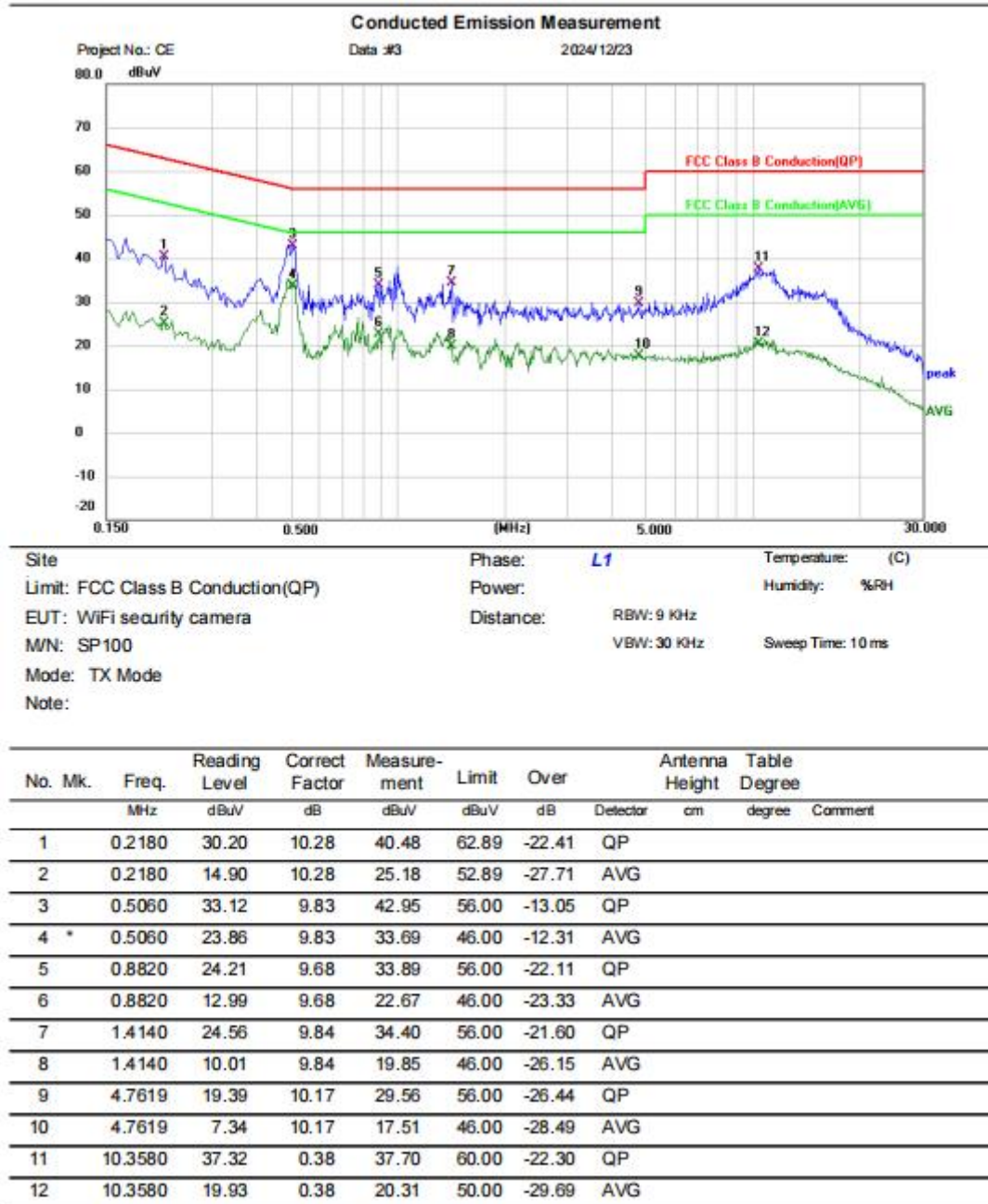
- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

LISN=Read Level+ Cable Loss+ LISN Factor

6.2.4 Test data

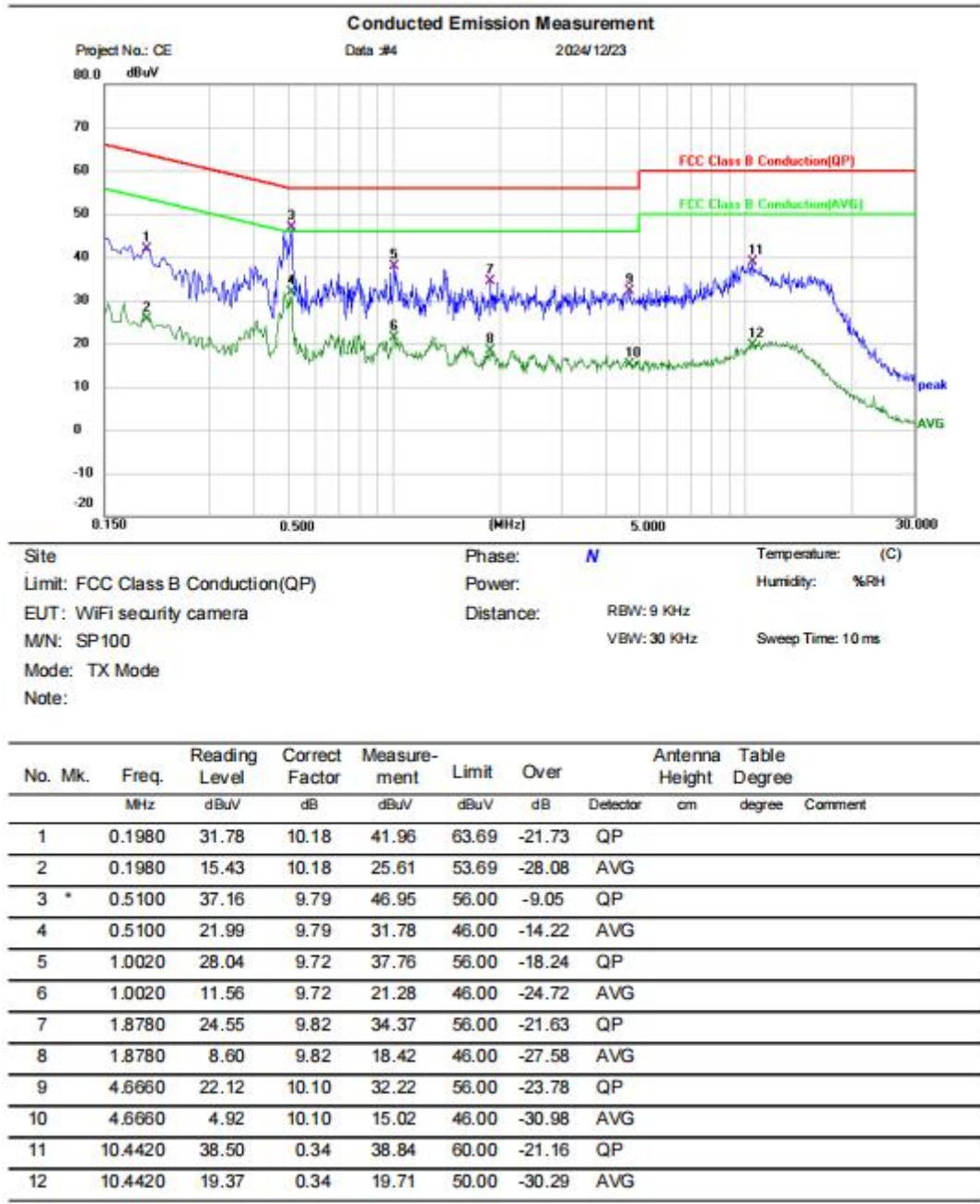
Model no:SP100

[Test Mode: TM1]; [Line: Line] ;[Power:AC120V/50Hz]



Test Result: Pass

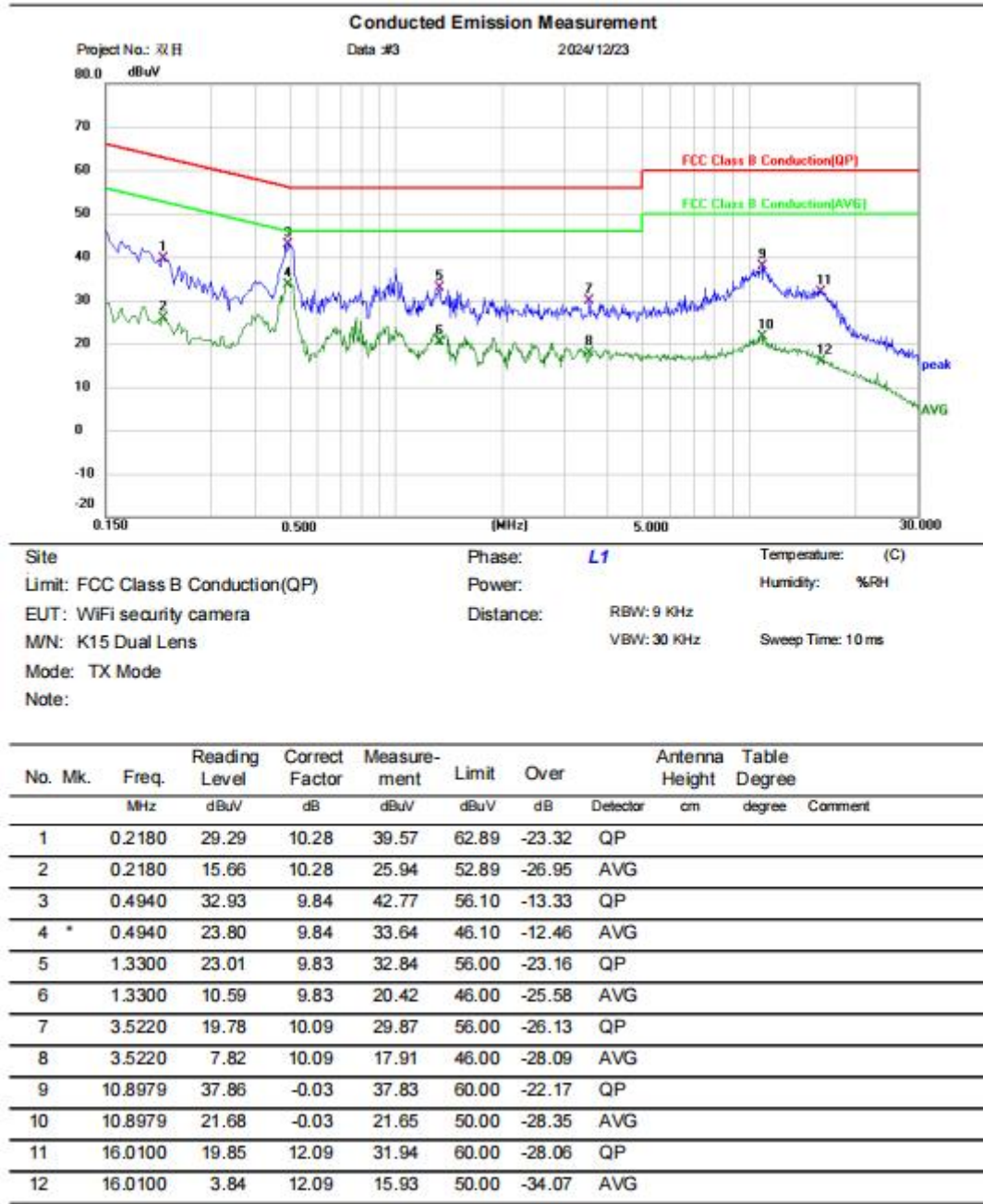
[Test Mode: TM1]; [Line: Neutral] ;[Power:AC120V/50Hz]



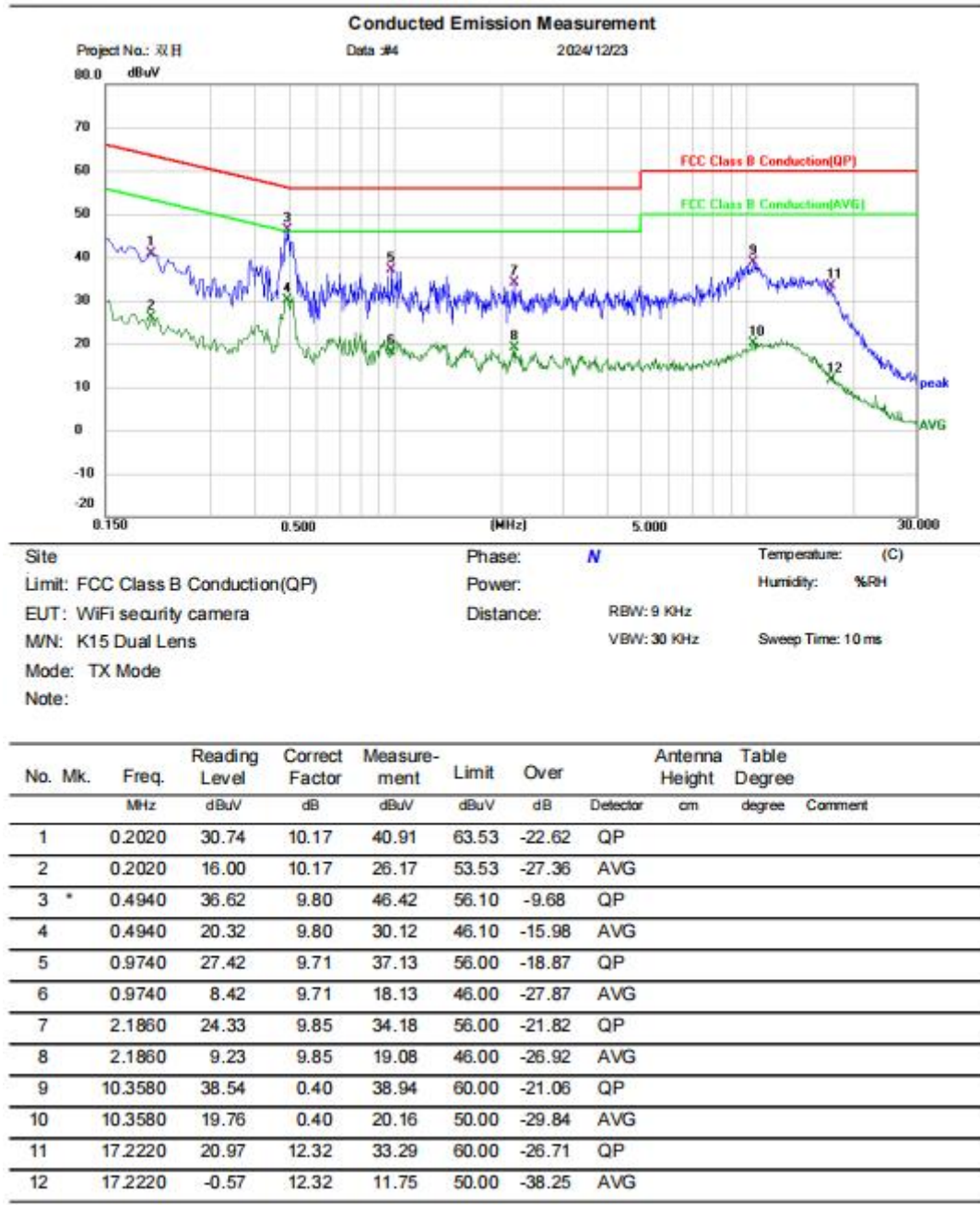
Test Result: Pass

Model no:K15(Dual lens)

[Test Mode: TM1]; [Line: Line] ;[Power:AC120V/50Hz]

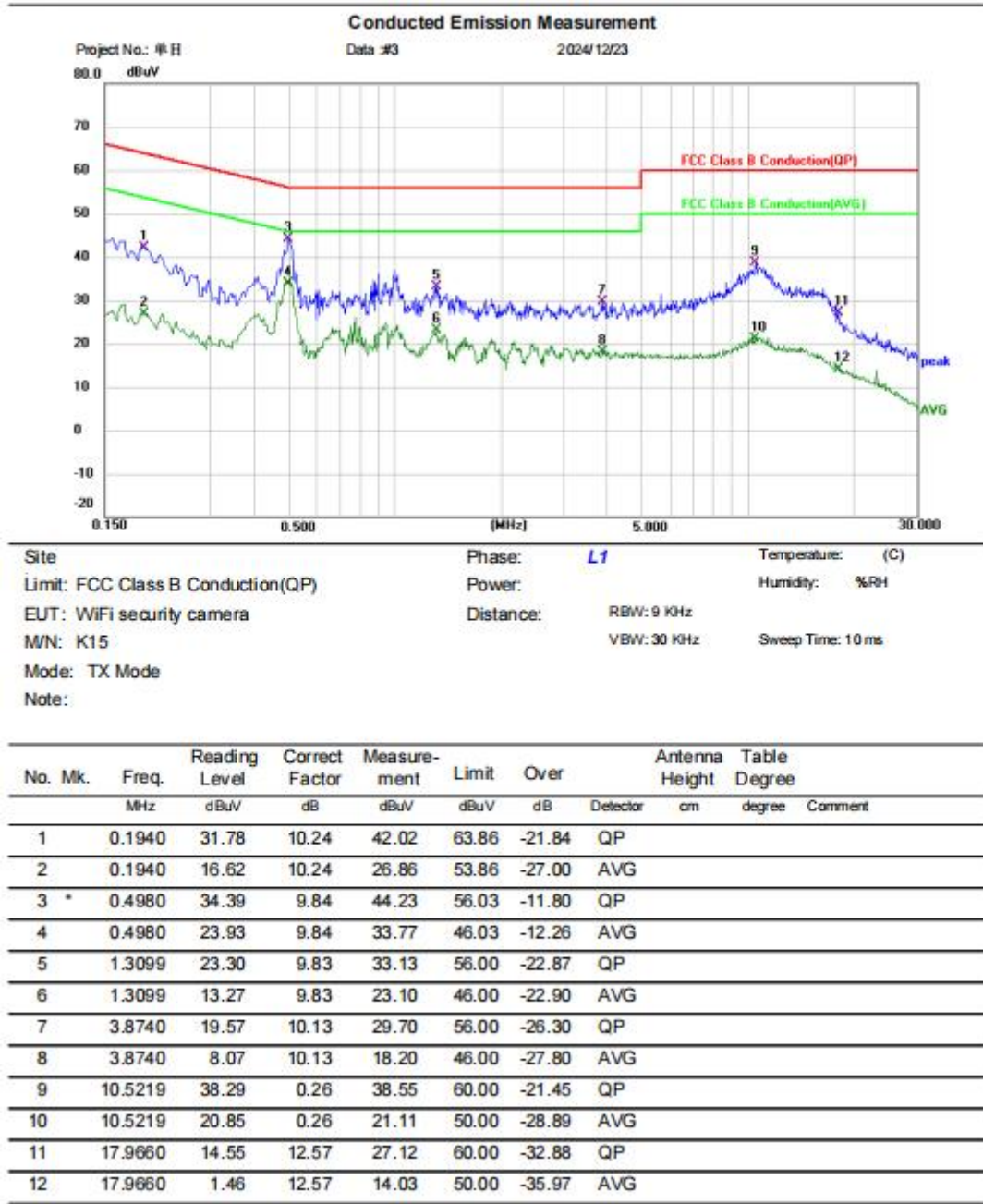

Test Result: Pass

[Test Mode: TM1]; [Line: Neutral] ;[Power:AC120V/50Hz]

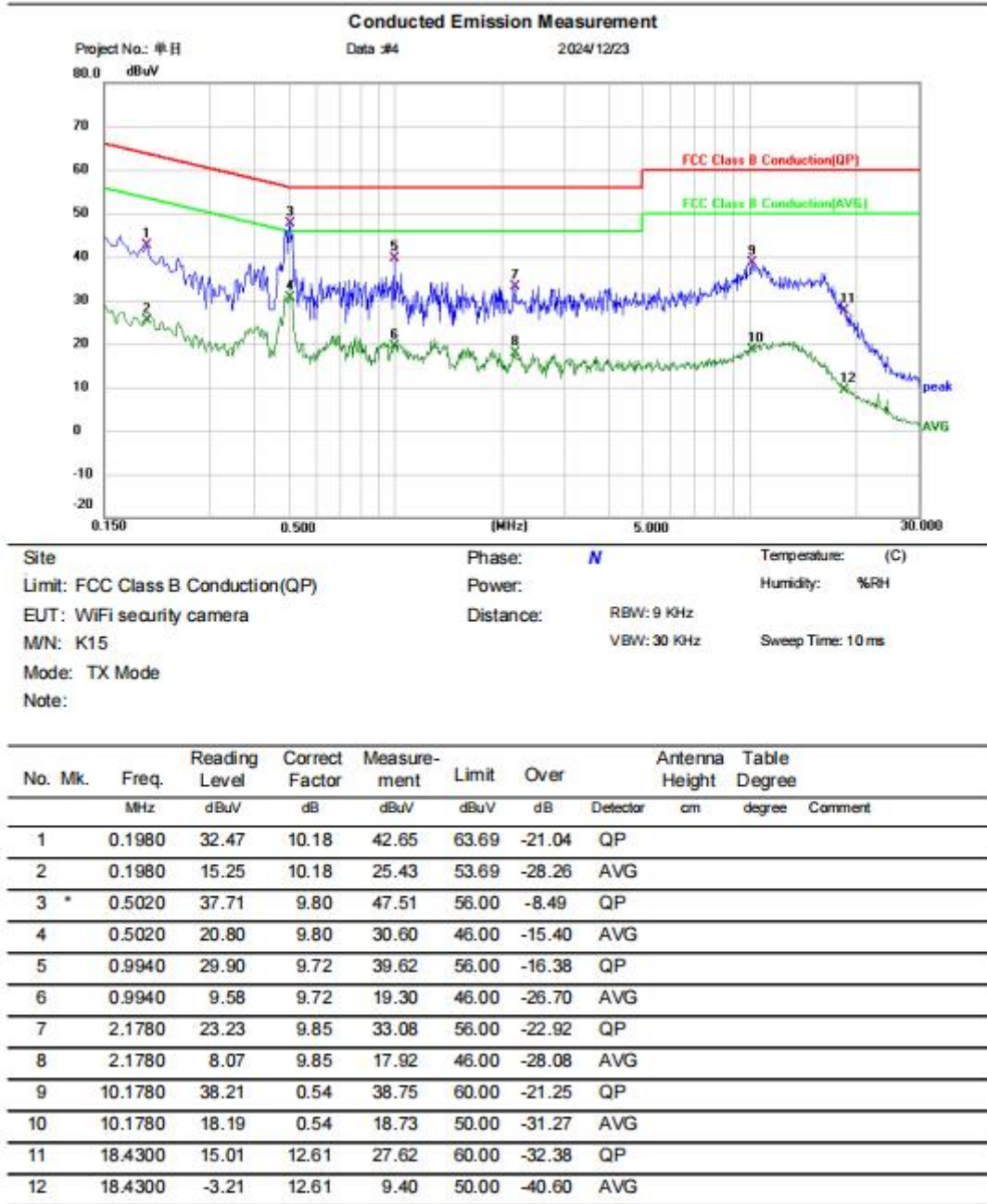

Test Result: Pass

Model no:K15

[Test Mode: TM1]; [Line: Line] ;[Power:AC120V/50Hz]


Test Result: Pass

[Test Mode: TM1]; [Line: Neutral] ;[Power:AC120V/50Hz]



Test Result: Pass

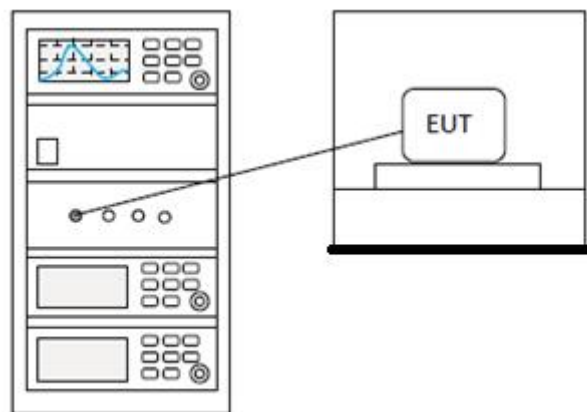
6.3 Conducted Peak output Power

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.3.1 Limit

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq \text{hopping channels} < 50$
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

6.3.2 Test setup



6.3.3 Test data

Pass: Please refer to appendix A for details

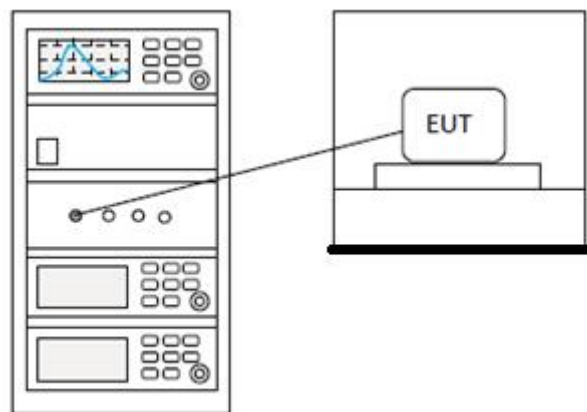
6.4 Minimum 6dB bandwidth

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.8.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.4.1 Limit

≥500 kHz

6.4.2 Test setup



6.4.3 Test data

Pass: Please refer to appendix A for details

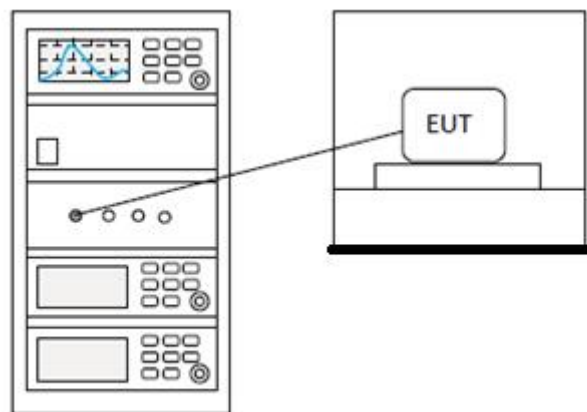
6.5 Power spectrum density

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.10.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.5.1 Limit

$\leq 8\text{dBm}$ in any 3 kHz band during any time interval of continuous transmission

6.5.2 Test setup



6.5.3 Test data

Pass: Please refer to appendix A for details

6.6 Conducted Band Edges Measurement

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.6.1 Limit

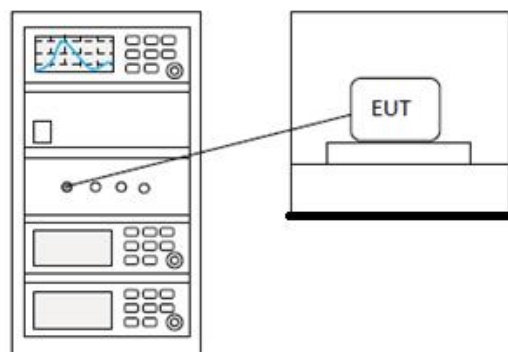
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.

Attenuation below the general limits specified in §15.209(a) is not required.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

6.6.2 Test setup



6.6.3 Test data

Pass: Please refer to appendix A for details

6.7 Conducted spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.7.1 Limit

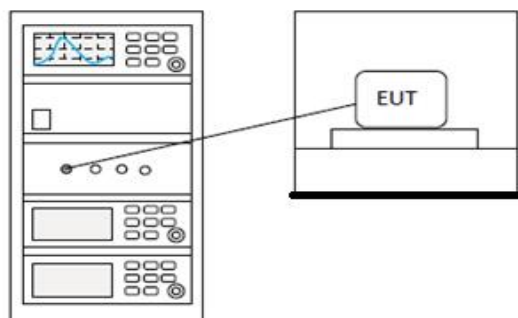
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.

Attenuation below the general limits specified in §15.209(a) is not required.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

6.7.2 Test setup



6.7.3 Test data

Pass: Please refer to appendix A for details

6.8 Radiated spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

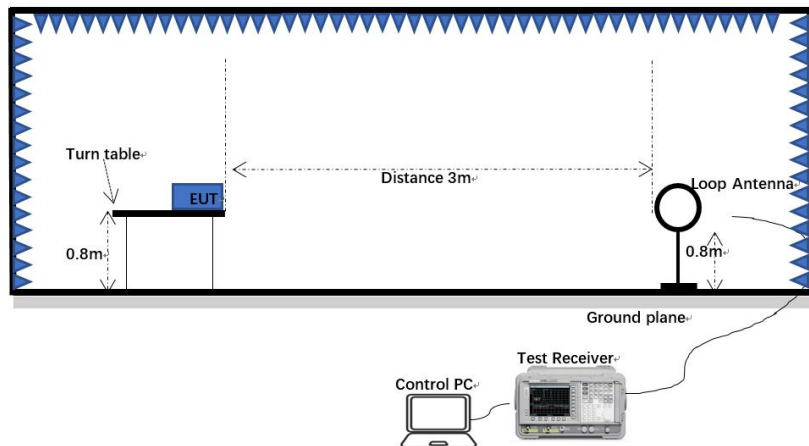
6.8.1 Limit

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

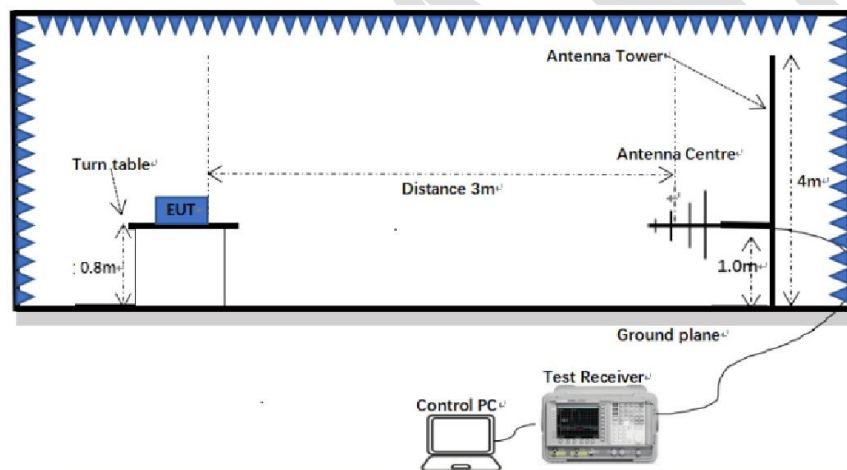
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

6.8.2 Test setup

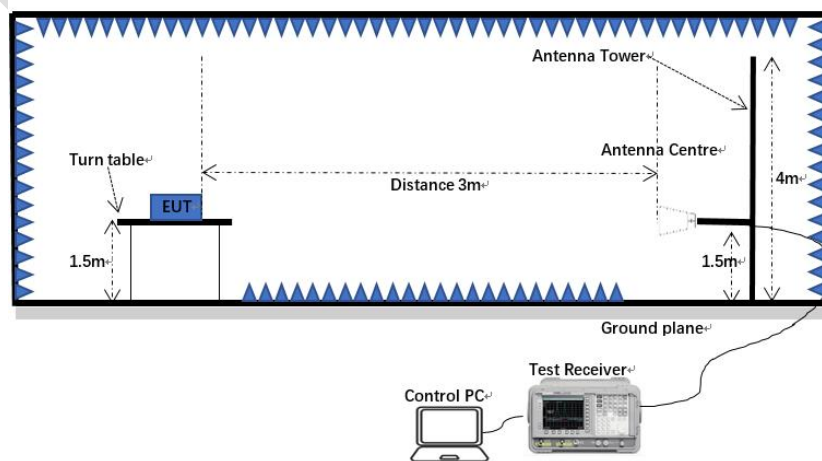
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



6.8.3 Procedure

- a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d) The antenna 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.
- e) 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h) Test the EUT in the lowest channel, the middle channel, the highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

Note 1: Scan from 9 kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

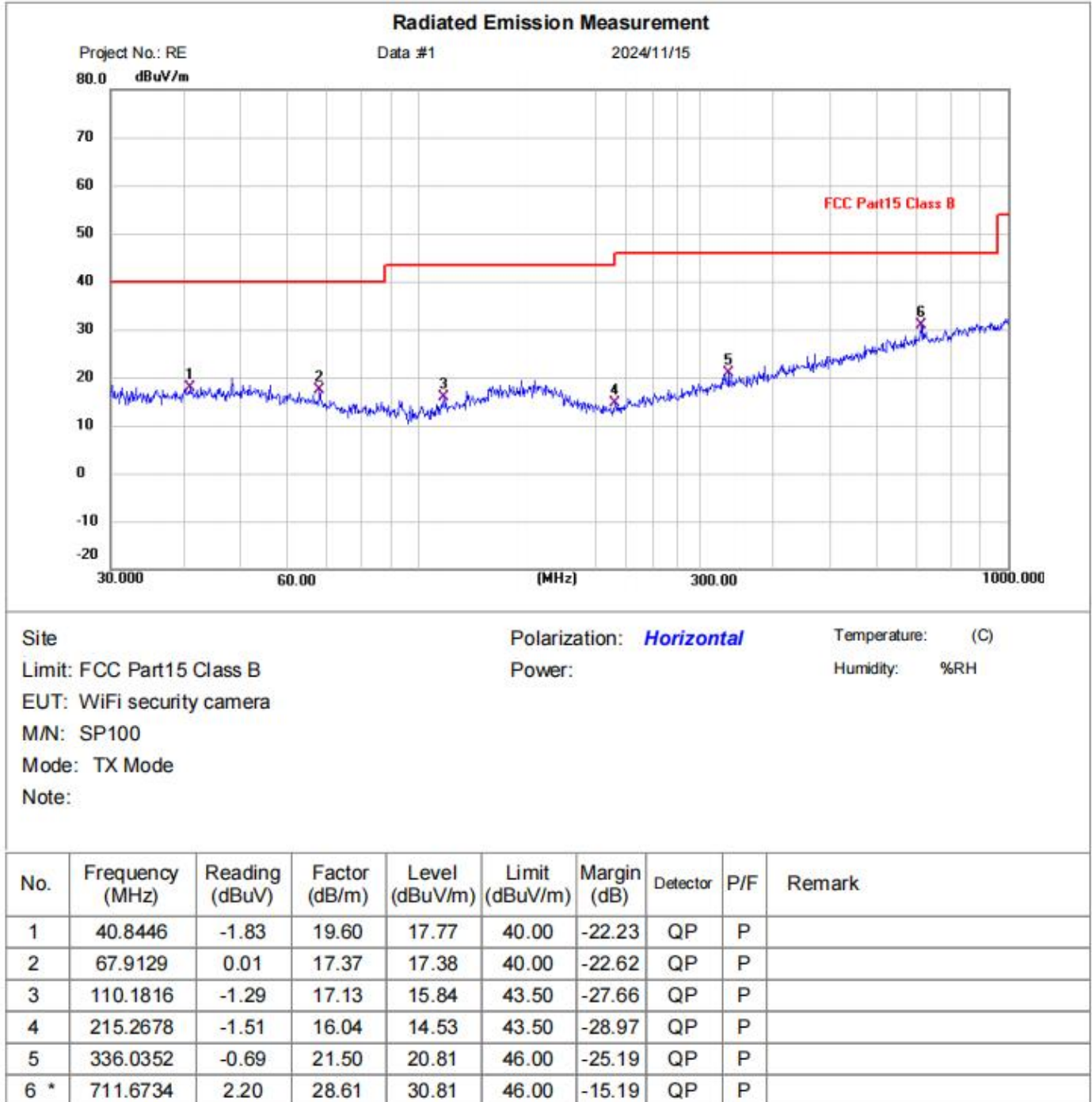
Note 3: The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Level (dBuV)} = \text{Reading (dBuV)} + \text{Factor (dB/m)}$$

6.8.4 Test data

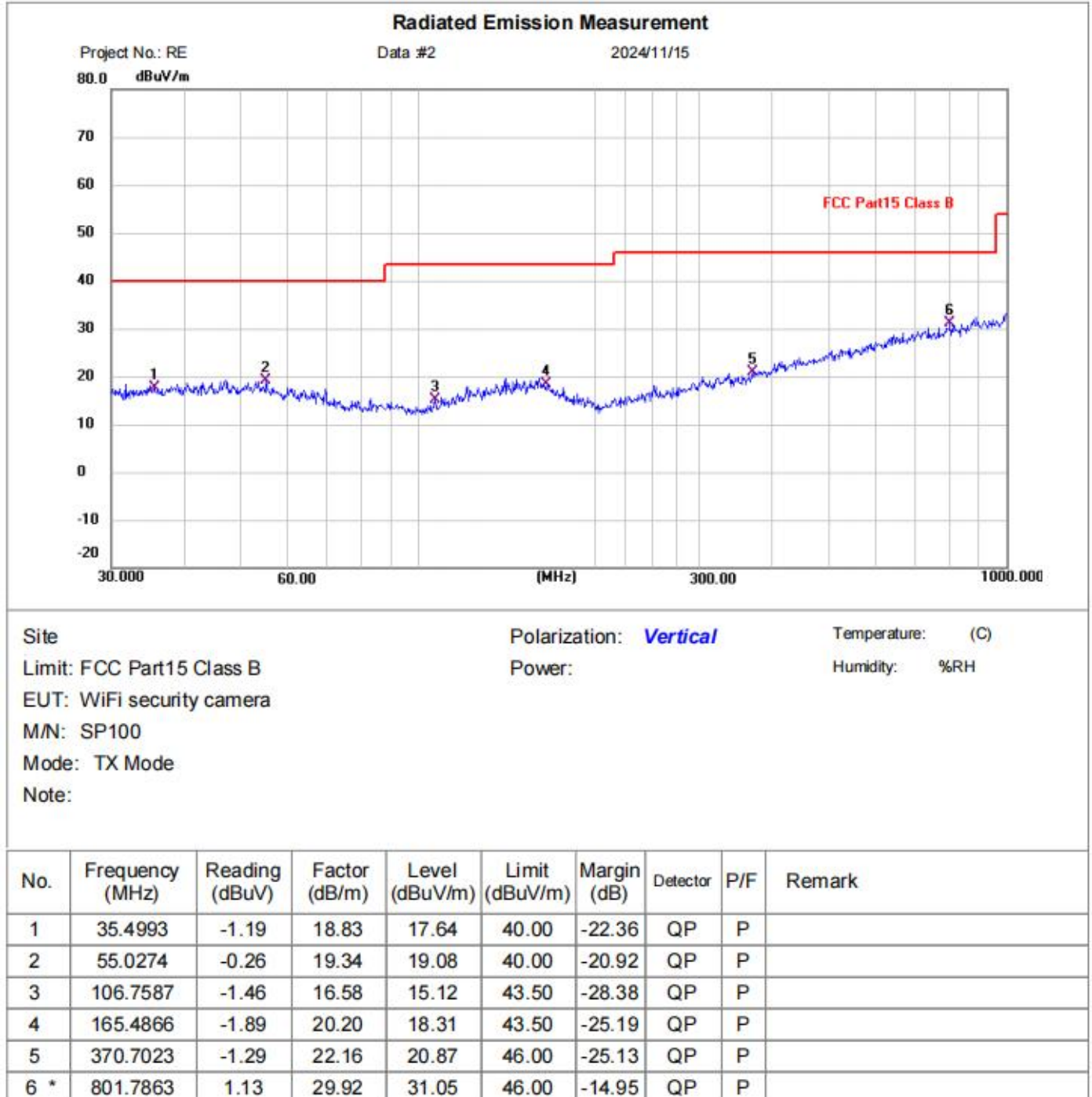
Below 1GHz

[Test mode: TX]; [Polarity: Horizontal]



Test Result: Pass

[Test mode: TX]; [Polarity: Vertical]

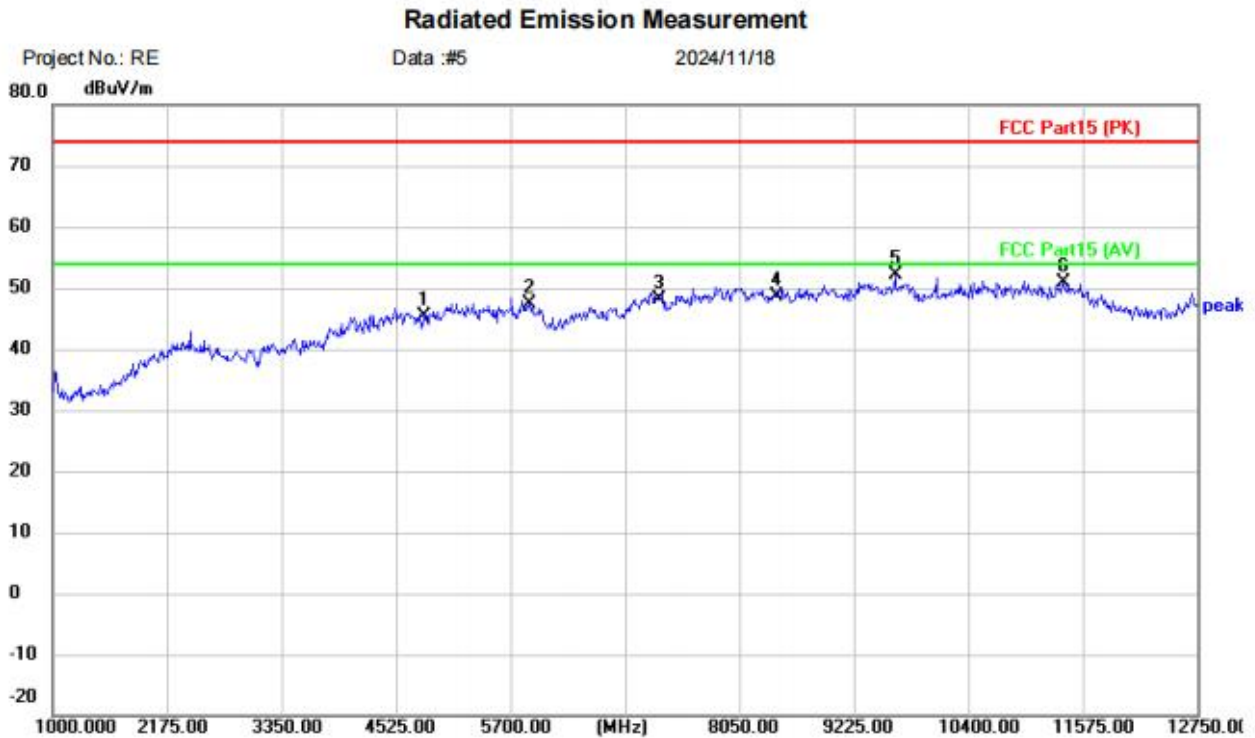


Test Result: Pass

Above 1GHz:

Model no:SP100

[Test mode: TX low channel]; [Polarity: Horizontal]



Site Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: WiFi security camera

M/N: SP100

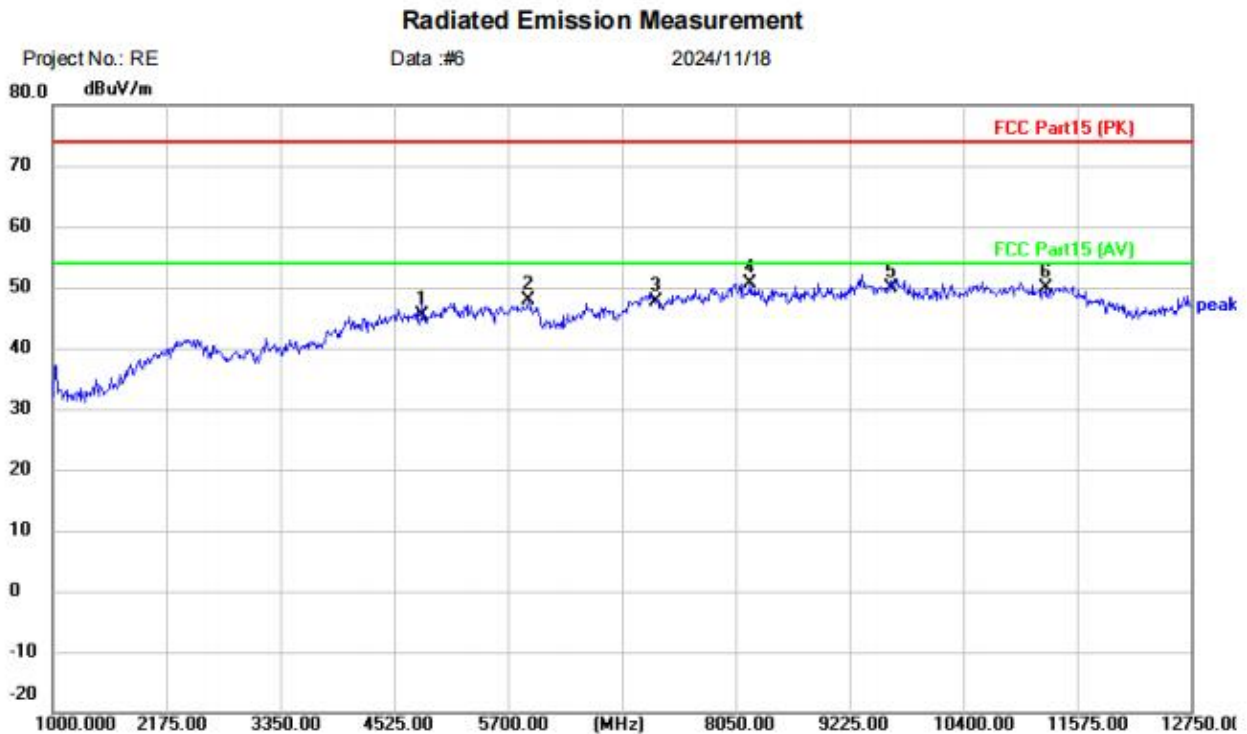
Mode: 2.4G WIFI 11B TX 2412

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	39.00	6.29	45.29	74.00	-28.71	peak	
2		5899.750	38.17	9.10	47.27	74.00	-26.73	peak	
3		7236.000	37.78	10.45	48.23	74.00	-25.77	peak	
4		8437.750	37.32	11.39	48.71	74.00	-25.29	peak	
5	*	9648.000	38.51	13.50	52.01	74.00	-21.99	peak	
6		11375.25	37.62	13.16	50.78	74.00	-23.22	peak	

Test Result: Pass

[Test mode: TX low channel]; [Polarity: Vertical]



Site: Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: WiFi security camera

M/N: SP100

Mode: 2.4G WIFI 11B TX 2412

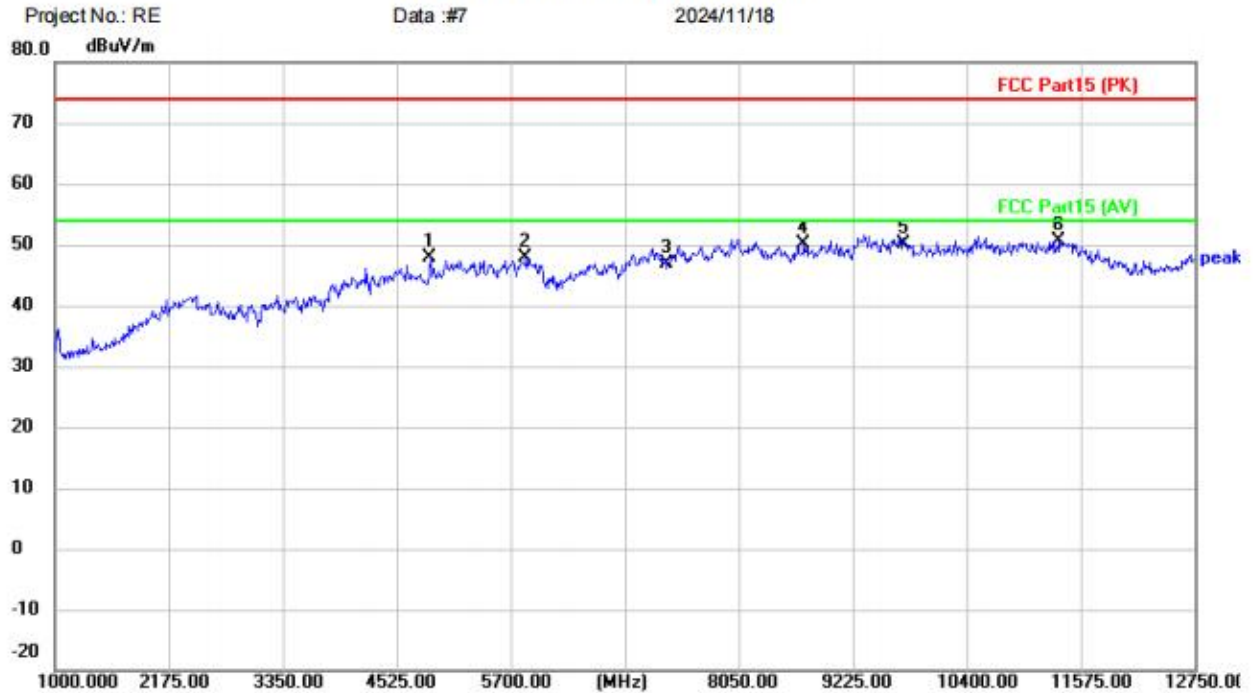
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	39.05	6.29	45.34	74.00	-28.66	peak	
2		5911.500	38.74	9.08	47.82	74.00	-26.18	peak	
3		7236.000	37.07	10.45	47.52	74.00	-26.48	peak	
4	*	8202.750	39.17	11.48	50.65	74.00	-23.35	peak	
5		9648.000	36.32	13.50	49.82	74.00	-24.18	peak	
6		11246.00	36.93	12.94	49.87	74.00	-24.13	peak	

Test Result: Pass

[Test mode: TX middle channel]; [Polarity: Horizontal]

Radiated Emission Measurement



Site Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: WiFi security camera

M/N: SP100

Mode: 2.4G WIFI 11B TX 2437

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		4874.000	41.51	6.39	47.90	74.00	-26.10	peak	
2		5852.750	38.89	8.88	47.77	74.00	-26.23	peak	
3		7311.000	36.80	9.98	46.78	74.00	-27.22	peak	
4		8719.750	38.35	11.79	50.14	74.00	-23.86	peak	
5		9748.000	36.44	13.81	50.25	74.00	-23.75	peak	
6	*	11351.75	37.75	13.00	50.75	74.00	-23.25	peak	

Test Result: Pass

[Test mode: TX middle channel]; [Polarity: Vertical]

Radiated Emission Measurement



Site Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: WiFi security camera

M/N: SP100

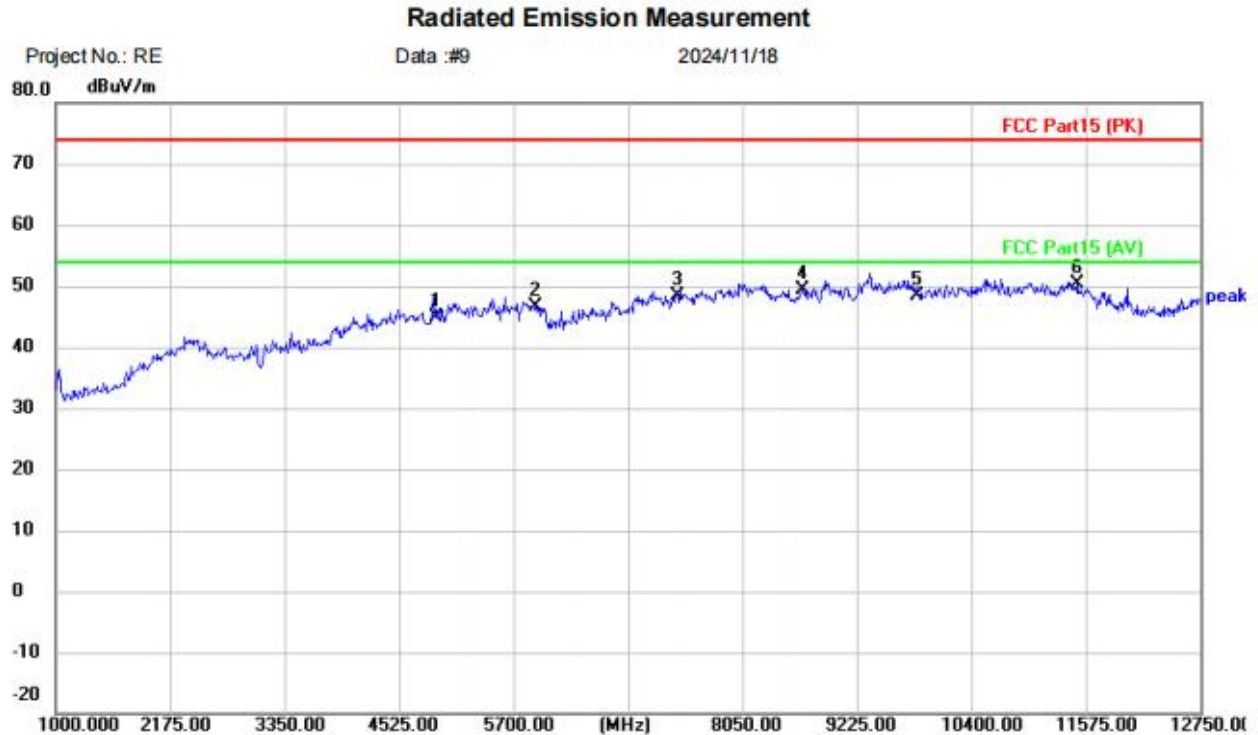
Mode: 2.4G WIFI 11B TX 2437

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	41.60	6.39	47.99	74.00	-26.01	peak	
2		5923.250	37.88	9.06	46.94	74.00	-27.06	peak	
3		7311.000	37.14	9.98	47.12	74.00	-26.88	peak	
4		8684.500	37.86	11.79	49.65	74.00	-24.35	peak	
5		9748.000	36.41	13.81	50.22	74.00	-23.78	peak	
6	*	11011.00	38.47	13.70	52.17	74.00	-21.83	peak	

Test Result: Pass

[Test mode: TX High channel]; [Polarity: Horizontal]



Site Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: WiFi security camera

M/N: SP100

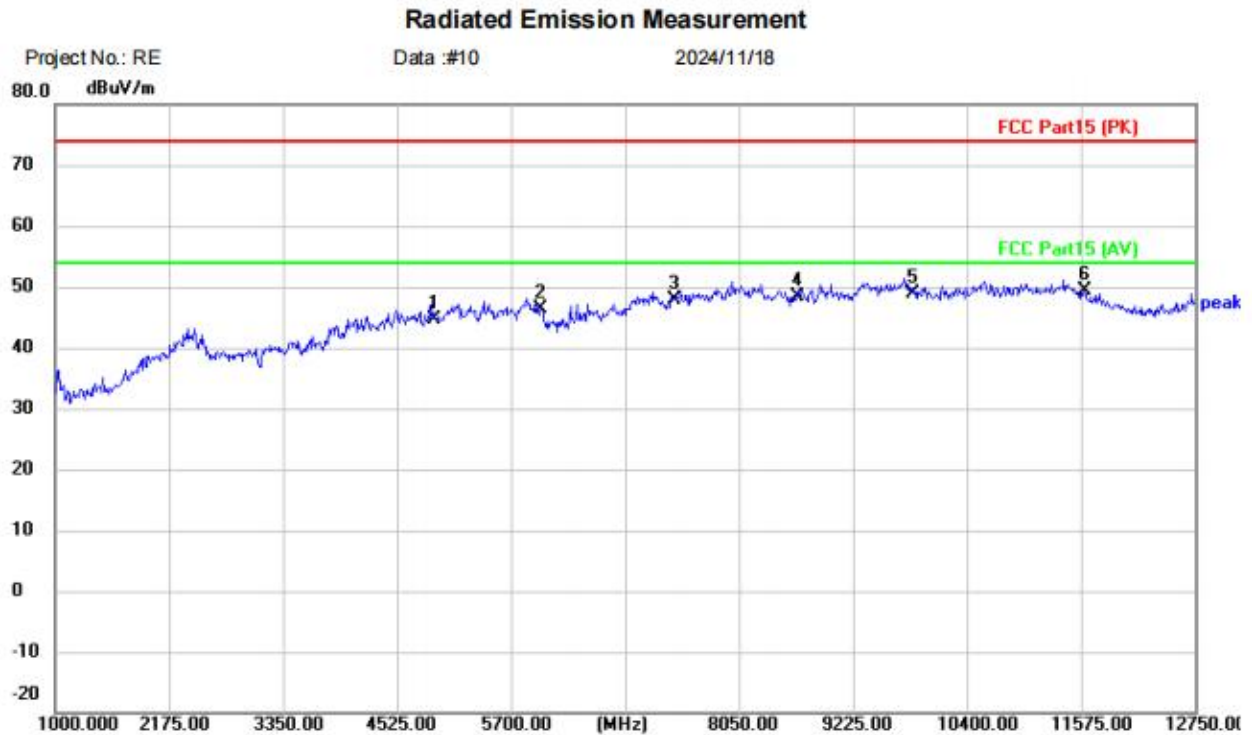
Mode: 2.4G WIFI 11B TX 2462

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	37.92	6.89	44.81	74.00	-29.19	peak	
2		5923.250	37.59	9.06	46.65	74.00	-27.35	peak	
3		7386.000	38.11	10.39	48.50	74.00	-25.50	peak	
4		8672.750	37.48	11.80	49.28	74.00	-24.72	peak	
5		9848.000	35.01	13.44	48.45	74.00	-25.55	peak	
6	*	11492.75	36.77	13.49	50.26	74.00	-23.74	peak	

Test Result: Pass

[Test mode: TX High channel]; [Polarity: Vertical]



Site: Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: WiFi security camera

M/N: SP100

Mode: 2.4G WIFI 11B TX 2462

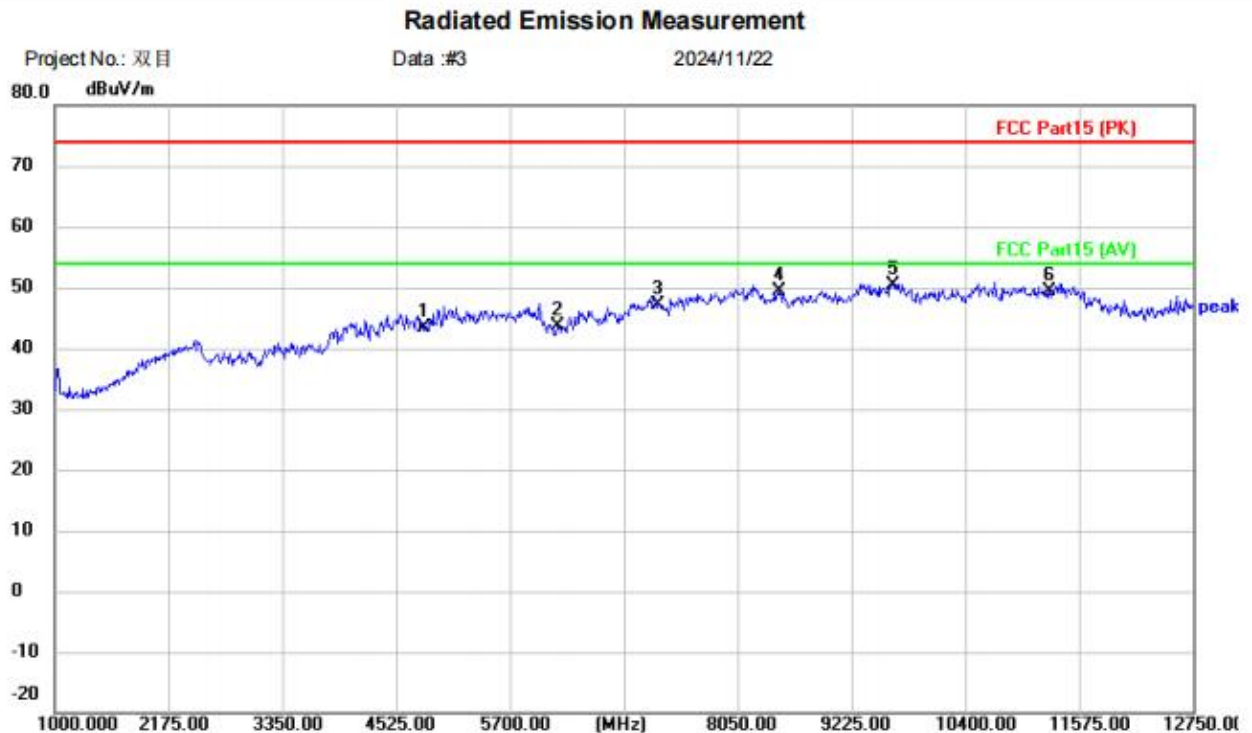
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	37.85	6.89	44.74	74.00	-29.26	peak	
2		6005.500	40.59	5.84	46.43	74.00	-27.57	peak	
3		7386.000	37.39	10.39	47.78	74.00	-26.22	peak	
4		8649.250	36.69	11.79	48.48	74.00	-25.52	peak	
5		9848.000	35.38	13.44	48.82	74.00	-25.18	peak	
6	*	11610.25	36.46	12.81	49.27	74.00	-24.73	peak	

Test Result: Pass

Model no:K15(Dual lens)

[Test mode: TX low channel]; [Polarity: Horizontal]



Site Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: WiFi security camera

M/N: K15 Dual Lens

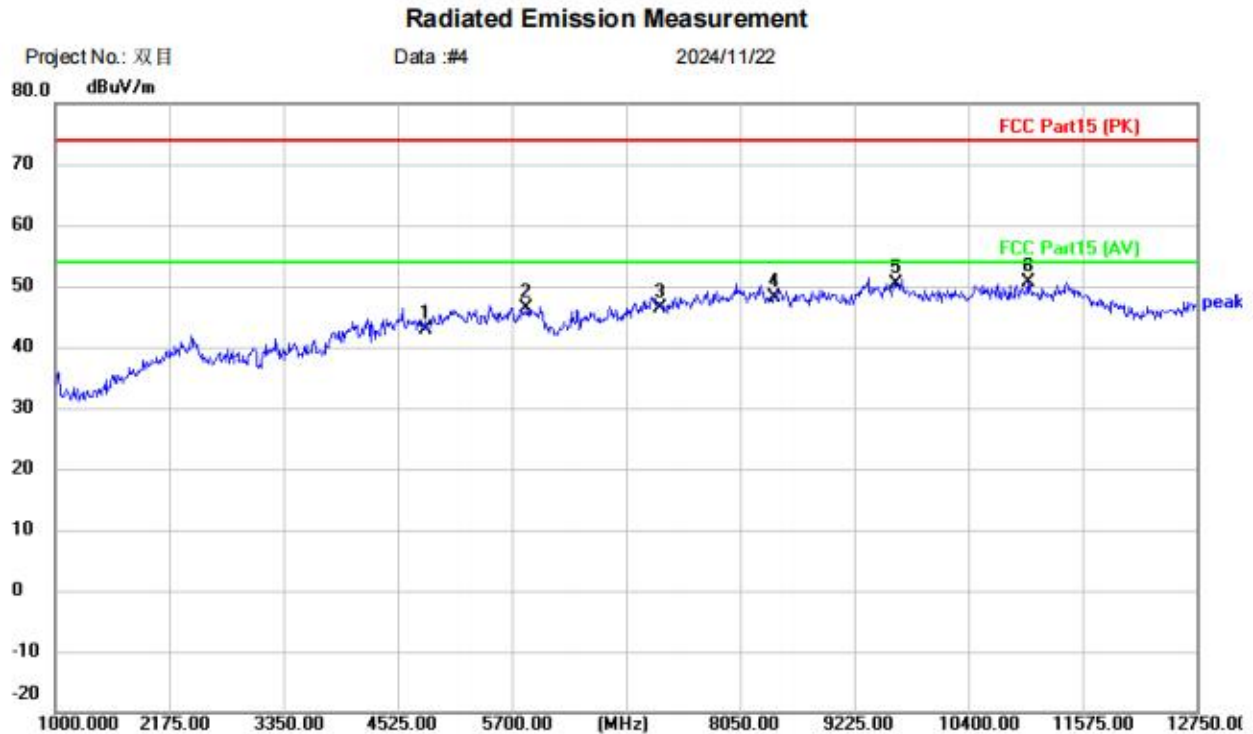
Mode: 2.4G WIFI 11B TX 2412

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	37.19	6.29	43.48	74.00	-30.52	peak	
2		6193.500	36.81	6.78	43.59	74.00	-30.41	peak	
3		7236.000	36.65	10.45	47.10	74.00	-26.90	peak	
4		8484.750	38.07	11.43	49.50	74.00	-24.50	peak	
5	*	9648.000	36.85	13.50	50.35	74.00	-23.65	peak	
6		11269.50	36.66	12.81	49.47	74.00	-24.53	peak	

Test Result: Pass

[Test mode: TX low channel]; [Polarity: Vertical]



Site: Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: WiFi security camera

M/N: K15 Dual Lens

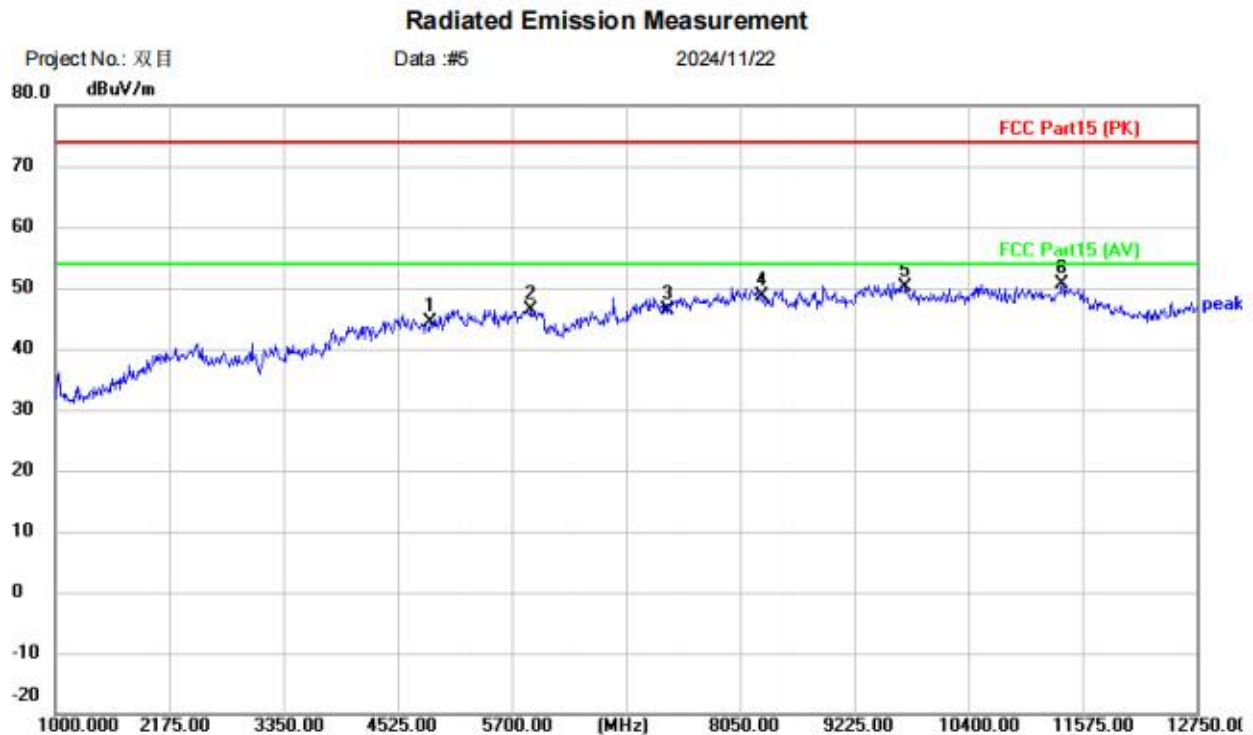
Mode: 2.4G WIFI 11B TX 2412

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	36.62	6.29	42.91	74.00	-31.09	peak	
2		5852.750	37.41	8.88	46.29	74.00	-27.71	peak	
3		7236.000	36.04	10.45	46.49	74.00	-27.51	peak	
4		8402.500	37.07	11.12	48.19	74.00	-25.81	peak	
5		9648.000	36.81	13.50	50.31	74.00	-23.69	peak	
6	*	11011.00	36.98	13.70	50.68	74.00	-23.32	peak	

Test Result: Pass

[Test mode: TX middle channel]; [Polarity: Horizontal]



Site: Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: WiFi security camera

M/N: K15 Dual Lens

Mode: 2.4G WIFI 11B TX 2437

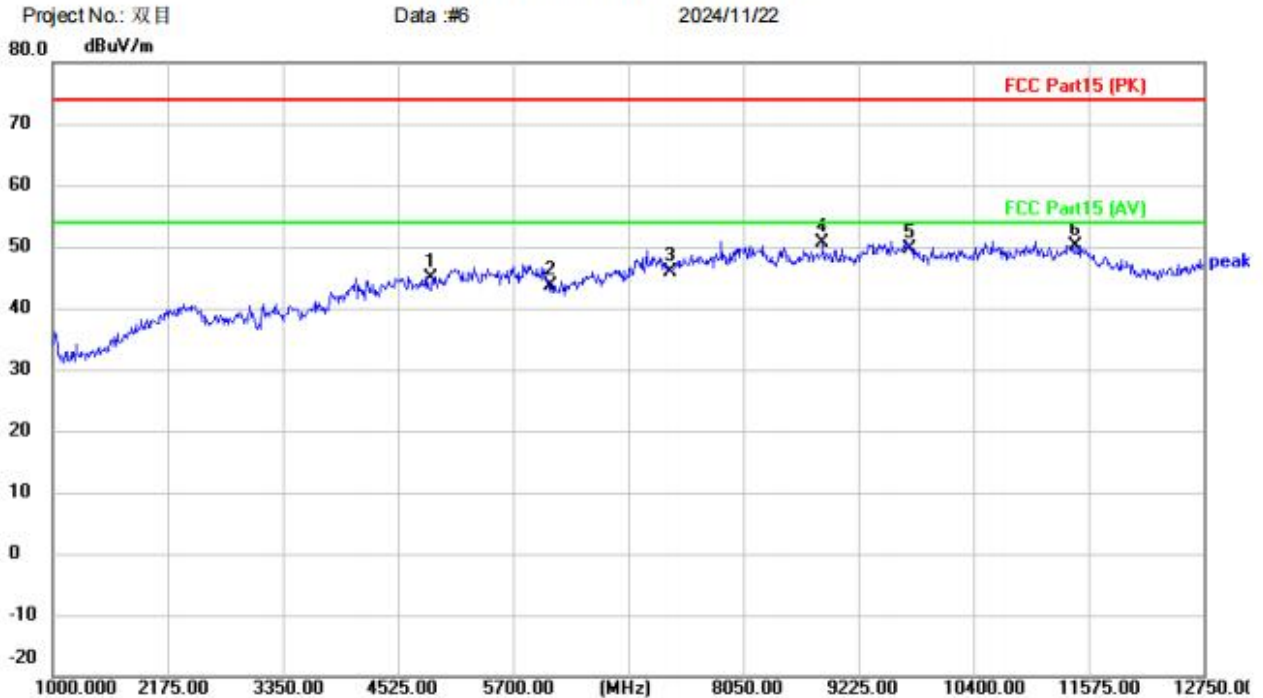
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	37.90	6.39	44.29	74.00	-29.71	peak	
2		5899.750	37.26	9.10	46.36	74.00	-27.64	peak	
3		7311.000	36.32	9.98	46.30	74.00	-27.70	peak	
4		8273.250	37.48	11.11	48.59	74.00	-25.41	peak	
5		9748.000	36.20	13.81	50.01	74.00	-23.99	peak	
6	*	11363.50	37.66	13.08	50.74	74.00	-23.26	peak	

Test Result: Pass

[Test mode: TX middle channel]; [Polarity: Vertical]

Radiated Emission Measurement

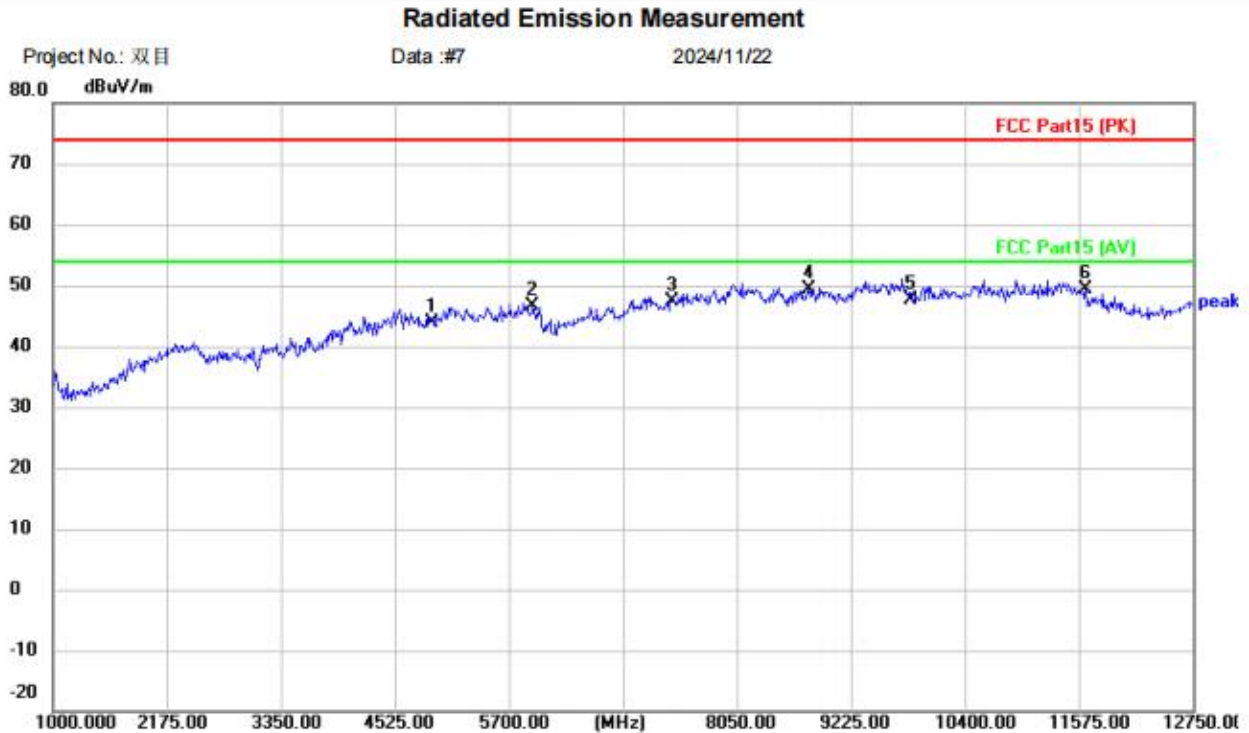


Site Polarization: **Vertical** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: WiFi security camera
M/N: K15 Dual Lens
Mode: 2.4G WIFI 11B TX 2437
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	38.61	6.39	45.00	74.00	-29.00	peak	
2		6076.000	37.23	6.38	43.61	74.00	-30.39	peak	
3		7311.000	35.90	9.98	45.88	74.00	-28.12	peak	
4	*	8860.750	38.66	11.98	50.64	74.00	-23.36	peak	
5		9748.000	35.84	13.81	49.65	74.00	-24.35	peak	
6		11434.00	36.69	13.39	50.08	74.00	-23.92	peak	

Test Result: Pass

[Test mode: TX High channel]; [Polarity: Horizontal]



Site: Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: WiFi security camera

M/N: K15 Dual Lens

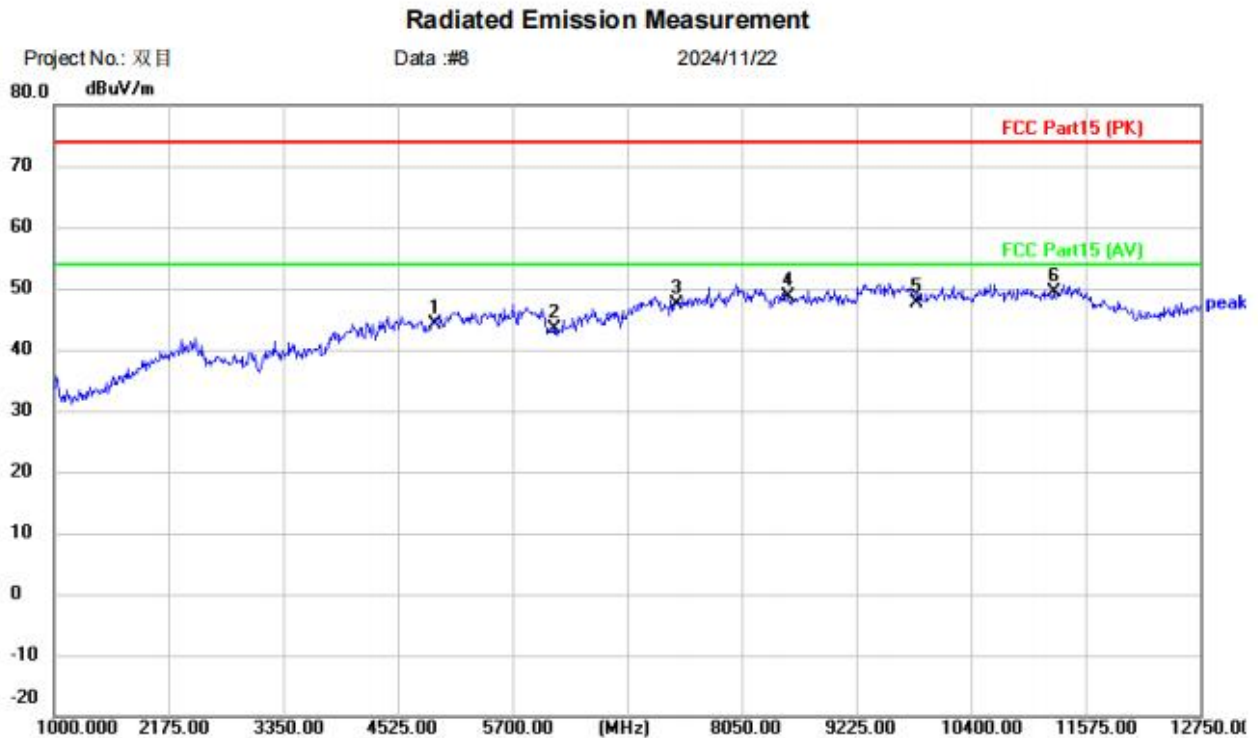
Mode: 2.4G WIFI 11B TX 2462

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	37.09	6.89	43.98	74.00	-30.02	peak	
2		5946.750	37.50	9.03	46.53	74.00	-27.47	peak	
3		7386.000	37.11	10.39	47.50	74.00	-26.50	peak	
4		8790.250	37.13	12.20	49.33	74.00	-24.67	peak	
5		9848.000	34.26	13.44	47.70	74.00	-26.30	peak	
6	*	11645.50	37.28	12.20	49.48	74.00	-24.52	peak	

Test Result: Pass

[Test mode: TX High channel]; [Polarity: Vertical]



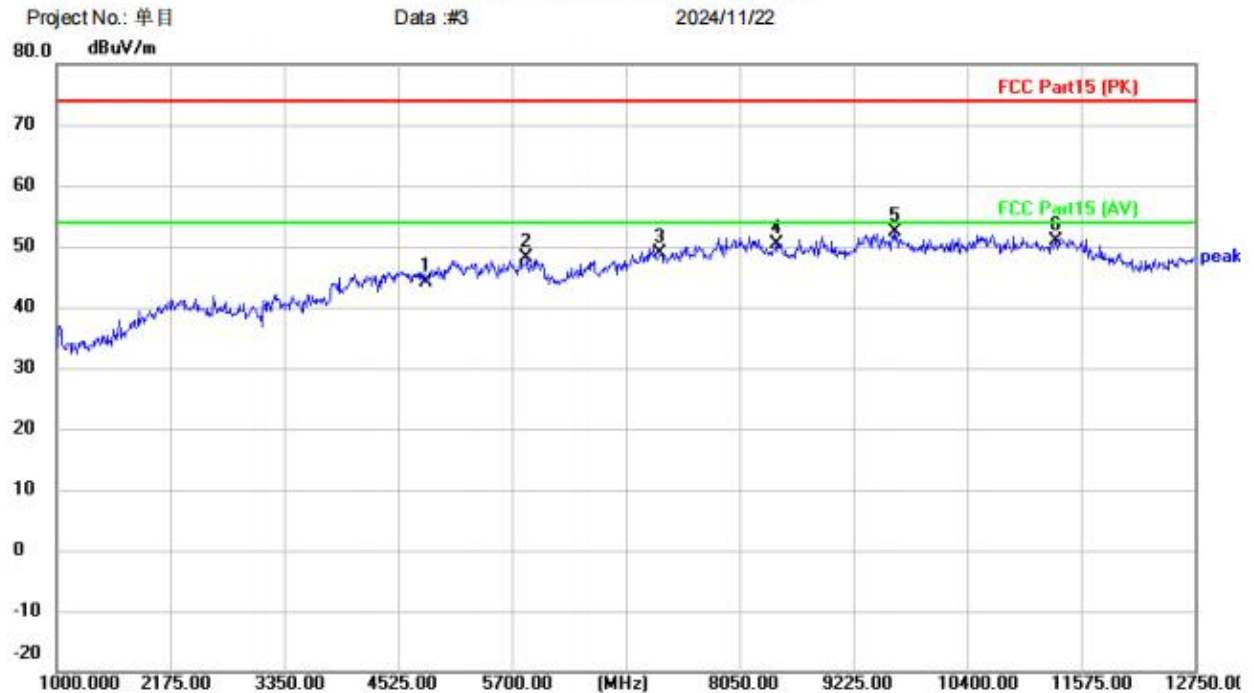
Site: Polarization: **Vertical** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: WiFi security camera
M/N: K15 Dual Lens
Mode: 2.4G WIFI 11B TX 2462
Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	37.30	6.89	44.19	74.00	-29.81	peak	
2		6123.000	36.85	6.56	43.41	74.00	-30.59	peak	
3		7386.000	36.99	10.39	47.38	74.00	-26.62	peak	
4		8531.750	37.13	11.46	48.59	74.00	-25.41	peak	
5		9848.000	34.11	13.44	47.55	74.00	-26.45	peak	
6	*	11246.00	36.37	12.94	49.31	74.00	-24.69	peak	

Test Result: Pass

Model no:K15

[Test mode: TX low channel]; [Polarity: Horizontal]

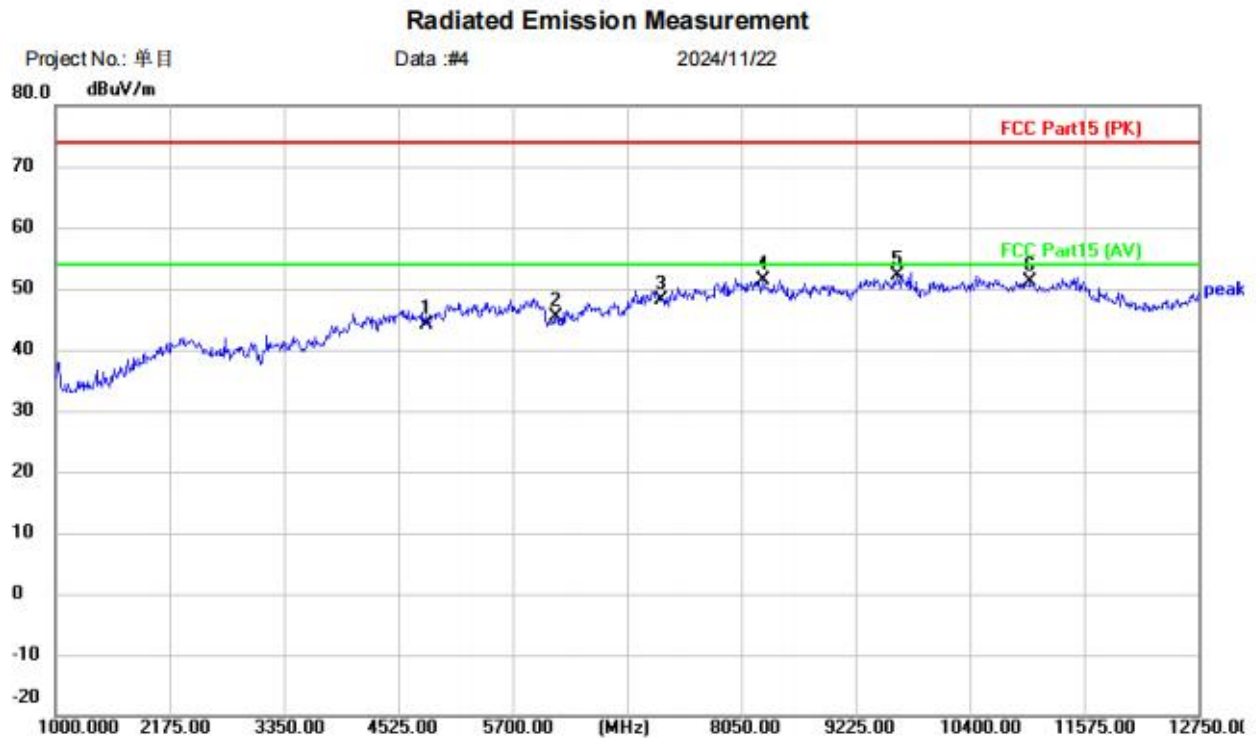
Radiated Emission Measurement

Site Polarization: **Horizontal** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: WiFi security camera
M/N: K15
Mode: 2.4G WIFI 11B TX 2412
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4824.000	37.76	6.29	44.05	74.00	-29.95	peak	
2		5852.750	39.21	8.88	48.09	74.00	-25.91	peak	
3		7236.000	38.54	10.45	48.99	74.00	-25.01	peak	
4		8426.000	39.04	11.31	50.35	74.00	-23.65	peak	
5	*	9648.000	38.78	13.50	52.28	74.00	-21.72	peak	
6		11316.50	38.19	12.76	50.95	74.00	-23.05	peak	

Test Result: Pass

[Test mode: TX low channel]; [Polarity: Vertical]



Site Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: WiFi security camera

M/N: K15

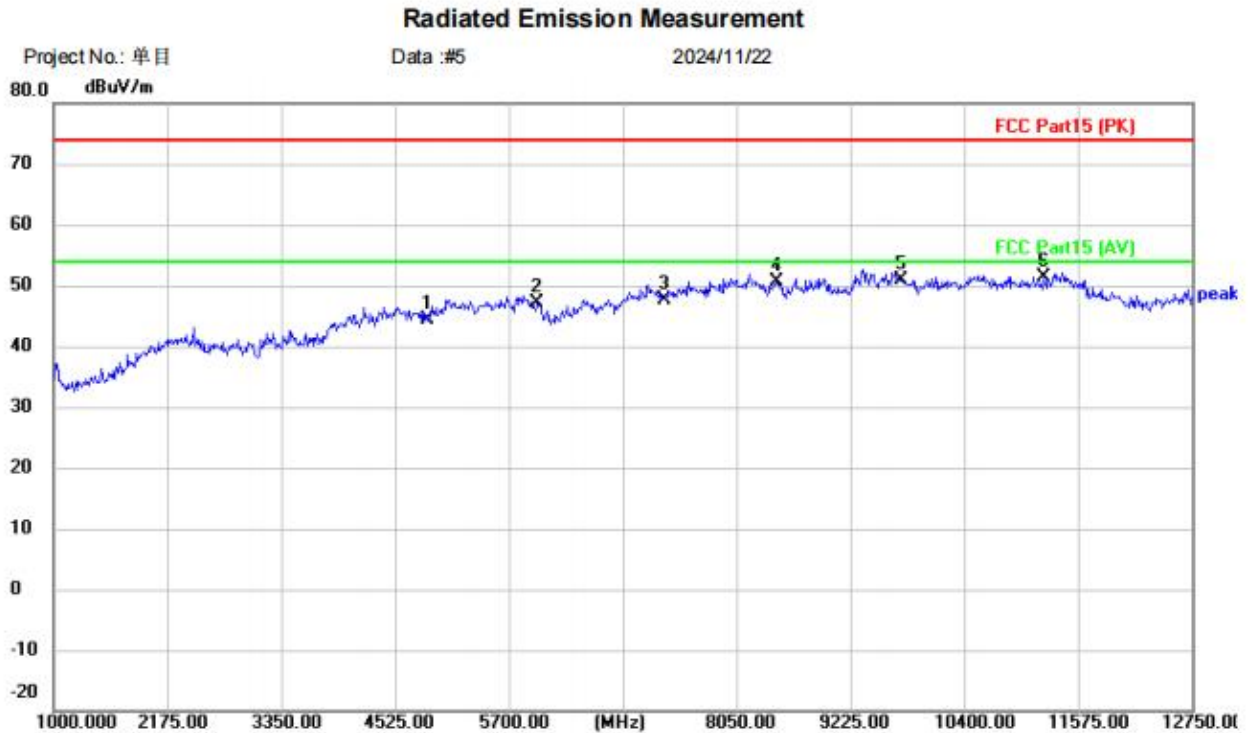
Mode: 2.4G WIFI 11B TX 2412

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	37.81	6.29	44.10	74.00	-29.90	peak	
2		6146.500	38.84	6.63	45.47	74.00	-28.53	peak	
3		7236.000	37.75	10.45	48.20	74.00	-25.80	peak	
4		8273.250	40.21	11.11	51.32	74.00	-22.68	peak	
5	*	9648.000	38.52	13.50	52.02	74.00	-21.98	peak	
6		11022.75	37.37	13.70	51.07	74.00	-22.93	peak	

Test Result: Pass

[Test mode: TX middle channel]; [Polarity: Horizontal]



Site Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: WiFi security camera

M/N: K15

Mode: 2.4G WIFI 11B TX 2437

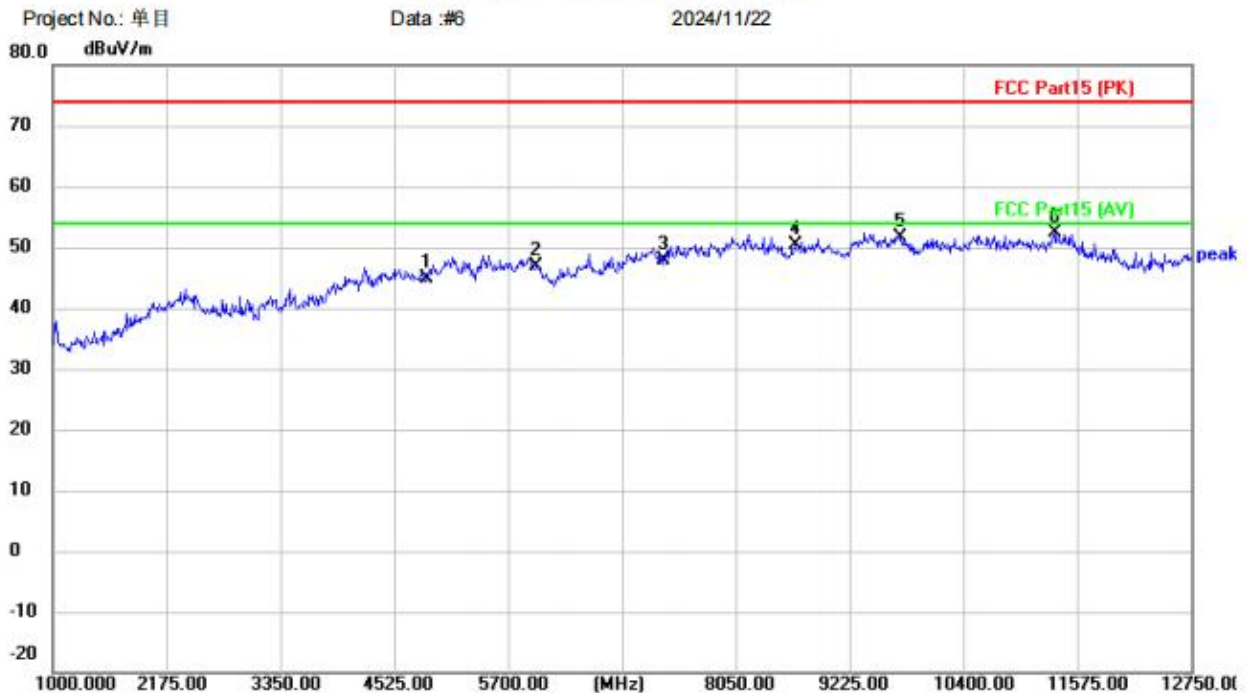
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	38.05	6.39	44.44	74.00	-29.56	peak	
2		5993.750	38.20	8.96	47.16	74.00	-26.84	peak	
3		7311.000	37.63	9.98	47.61	74.00	-26.39	peak	
4		8461.250	39.04	11.47	50.51	74.00	-23.49	peak	
5		9748.000	37.10	13.81	50.91	74.00	-23.09	peak	
6	*	11222.50	38.22	13.06	51.28	74.00	-22.72	peak	

Test Result: Pass

[Test mode: TX middle channel]; [Polarity: Vertical]

Radiated Emission Measurement



Site

Polarization: **Vertical**

Temperature: (C)

Limit: FCC Part15 (PK)

Power:

Humidity: %RH

EUT: WiFi security camera

M/N: K15

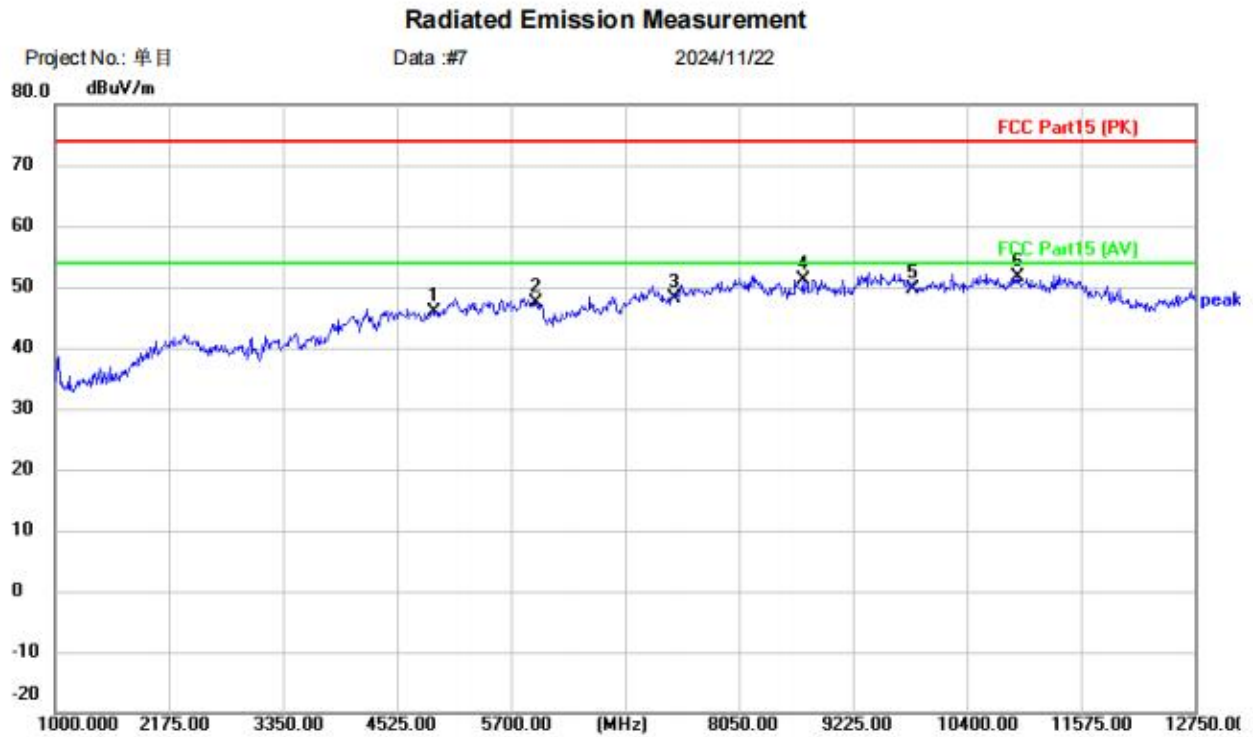
Mode: 2.4G WIFI 11B TX 2437

Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4874.000	38.44	6.39	44.83	74.00	-29.17	peak	
2		5993.750	37.98	8.96	46.94	74.00	-27.06	peak	
3		7311.000	37.99	9.98	47.97	74.00	-26.03	peak	
4		8661.000	38.60	11.79	50.39	74.00	-23.61	peak	
5		9748.000	37.71	13.81	51.52	74.00	-22.48	peak	
6	*	11340.00	39.39	12.92	52.31	74.00	-21.69	peak	

Test Result: Pass

[Test mode: TX High channel]; [Polarity: Horizontal]

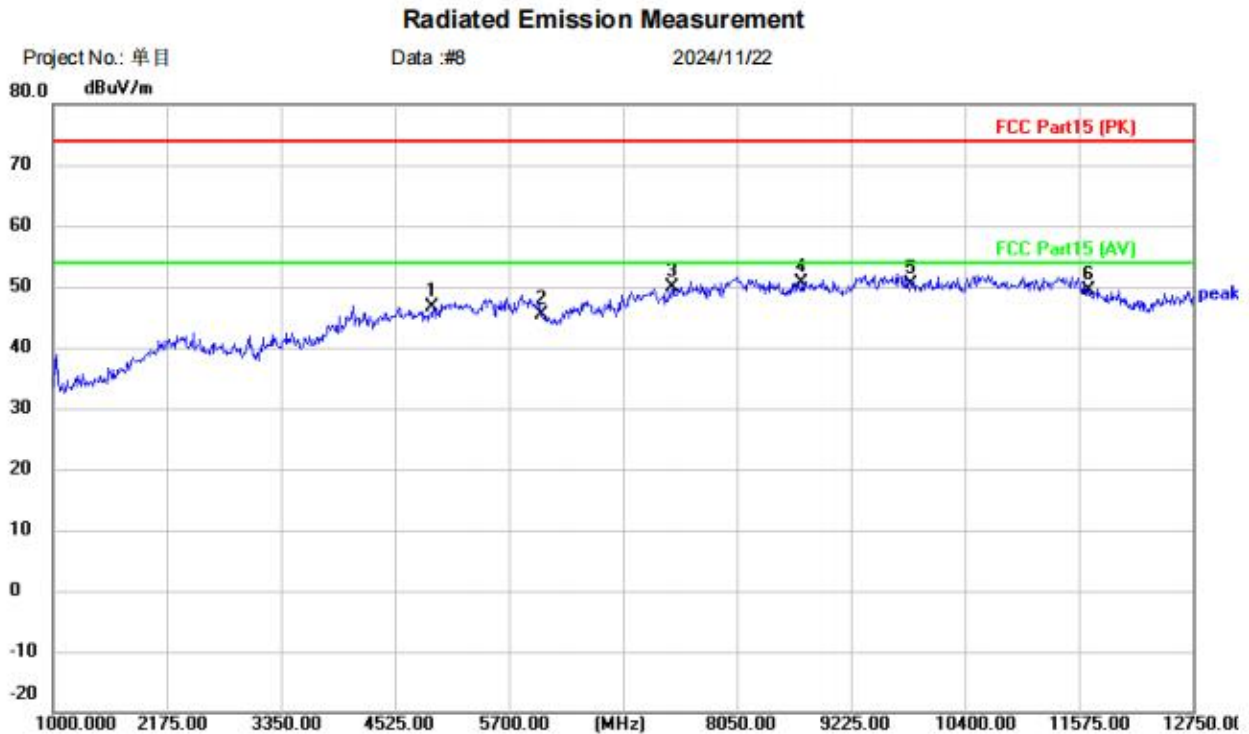


Site Polarization: **Horizontal** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: WiFi security camera
M/N: K15
Mode: 2.4G WIFI 11B TX 2462
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	39.02	6.89	45.91	74.00	-28.09	peak	
2		5958.500	38.47	9.02	47.49	74.00	-26.51	peak	
3		7386.000	37.63	10.39	48.02	74.00	-25.98	peak	
4		8708.000	39.22	11.80	51.02	74.00	-22.98	peak	
5		9848.000	36.21	13.44	49.65	74.00	-24.35	peak	
6	*	10917.00	37.79	13.87	51.66	74.00	-22.34	peak	

Test Result: Pass

[Test mode: TX High channel]; [Polarity: Vertical]



Site Polarization: **Vertical** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: WiFi security camera
M/N: K15
Mode: 2.4G WIFI 11B TX 2462
Note:

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		4924.000	39.69	6.89	46.58	74.00	-27.42	peak	
2		6029.000	39.29	6.06	45.35	74.00	-28.65	peak	
3		7386.000	39.44	10.39	49.83	74.00	-24.17	peak	
4	*	8719.750	38.90	11.79	50.69	74.00	-23.31	peak	
5		9848.000	36.82	13.44	50.26	74.00	-23.74	peak	
6		11680.75	37.88	11.59	49.47	74.00	-24.53	peak	

Test Result: Pass

Note: The disturbance above 7GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. During the test, pre-scan the 802.11b/g/n20/n40 mode, and found the 802.11b mode which it is worse case.

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Version: v1.2

6.9 Radiated emissions which fall in the restricted bands

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.10.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

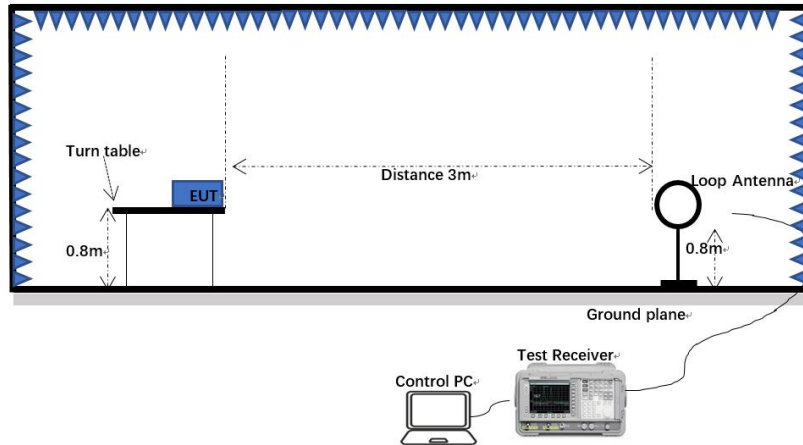
6.9.1 Limit

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

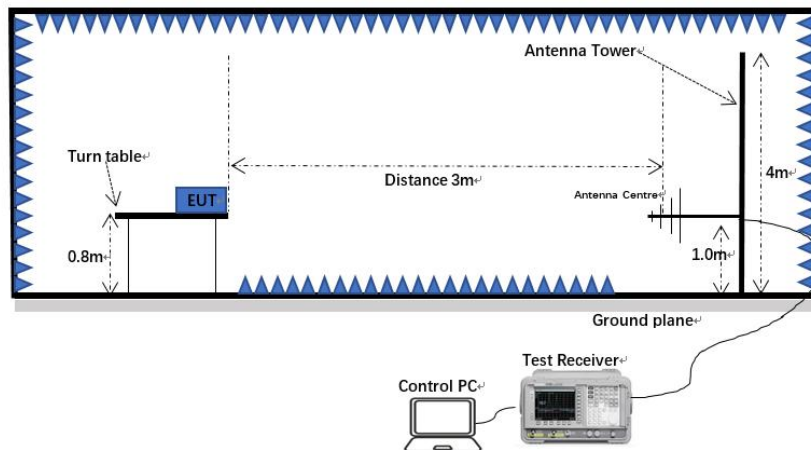
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

6.9.2 Test setup

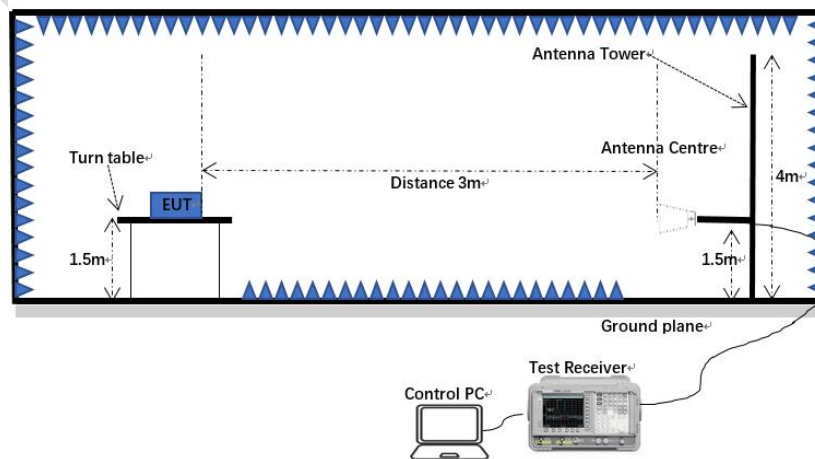
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



6.9.3 Procedure

- a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d) The antenna 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.
- e) 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h) Test the EUT in the lowest channel, the middle channel, the highest channel.
- i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j) Repeat above procedures until all frequencies measured was complete.

Note 1: Level (dBuV) = Reading (dBuV) + Factor (dB/m)

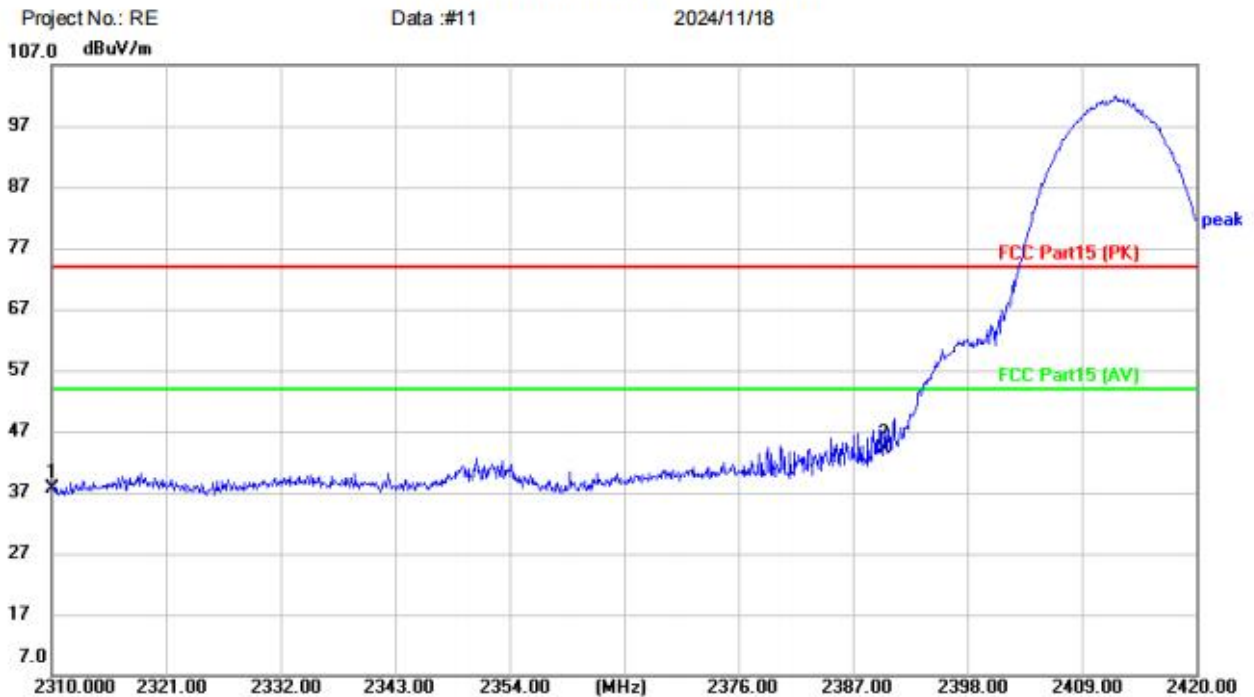
Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

6.9.4 Test data

Model no:SP100

[Test mode: TX B low channel]; [Polarity: Horizontal]

Radiated Emission Measurement



Site Polarization: **Horizontal** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: WiFi security camera

M/N: SP100

Mode: 2.4G WIFI 11B TX 2412

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		2310.000	40.57	-2.87	37.70	74.00	-36.30	peak	
2	*	2390.000	46.47	-2.44	44.03	74.00	-29.97	peak	

Test Result: Pass

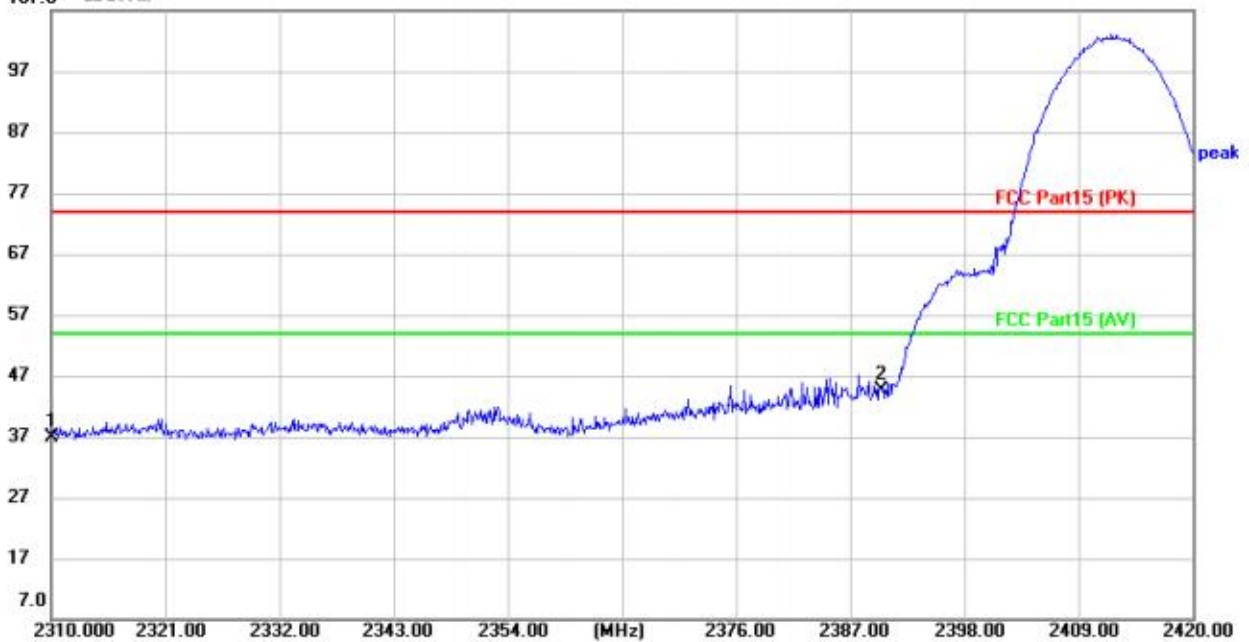
[Test mode:TX B low channel]; [Polarity: Vertical]

Radiated Emission Measurement

Project No.: RE
107.0 dBuV/m

Data :#12

2024/11/18



Site
Limit: FCC Part15 (PK)
EUT: WiFi security camera
M/N: SP100
Mode: 2.4G WIFI 11B TX 2412
Note:

Polarization: **Vertical**
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	39.81	-2.87	36.94	74.00	-37.06	peak	
2	*	2390.000	47.07	-2.44	44.63	74.00	-29.37	peak	

Test Result: Pass