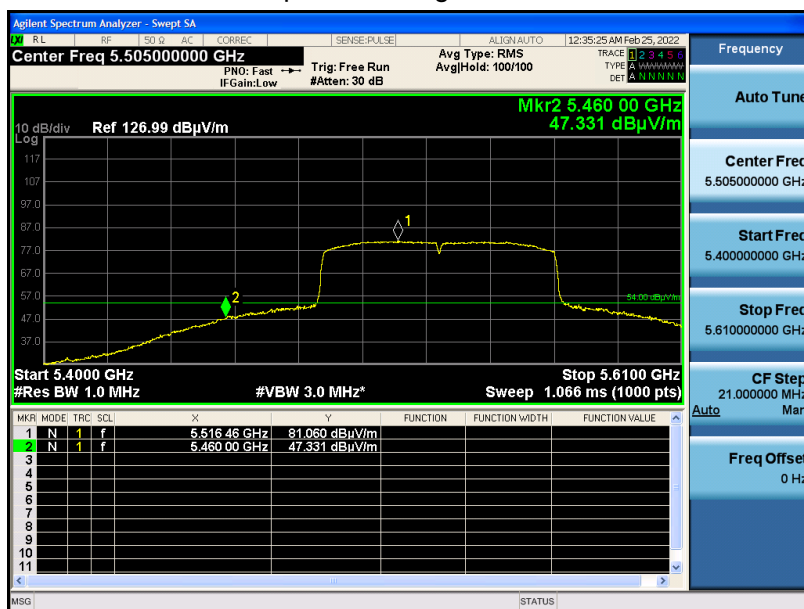


EUT	WiFi IP Camera	Model Name	RLC-542WA
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5530MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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Note:

1. All the antennas have been pre-tested, and all modes of each antenna are tested. All the 20MHz bandwidth modulation had been tested, the antenna 1 in 802.11a20 at 5180MHz was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the antenna 1+2 in 802.11N40 at 5190MHz was the worst case and record in his test report. All the 80MHz bandwidth modulation had been tested, the antenna 1+2 in 802.11AC80 at 5210MHz was the worst case and record in his test report.
2. The factor had been edited in the “Input Correction” of the Spectrum Analyzer.
3. Only the data of band edge emission at the restricted band 4.5GHz-5.15GHz and 5.35GHz-5.46GHz record in the report. Other restricted band 7.25GHz-7.77GHz were considered as ambient noise. No recording in the test report.
4. The side band standard of Band 4 frequency band is not defined, the transmitted signal does not fall in the restricted band, and the edge signal is far away from the edge of other restricted bands, and it is not recorded in the report.

12. LINE CONDUCTED EMISSION TEST

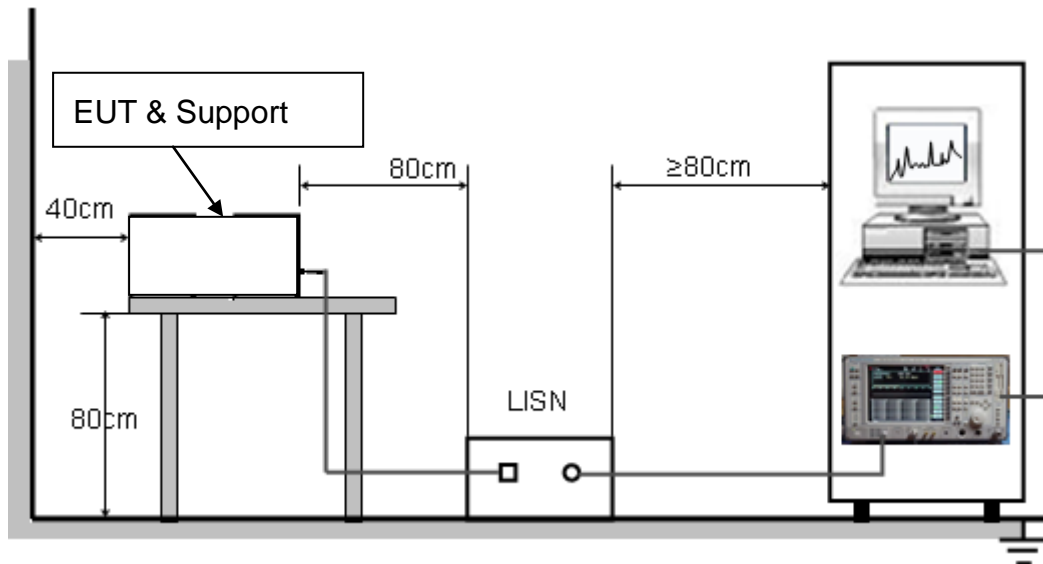
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P (dB μ V)	Average (dB μ V)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 Ohm load; the second scan had Line 1 connected to a 50 Ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

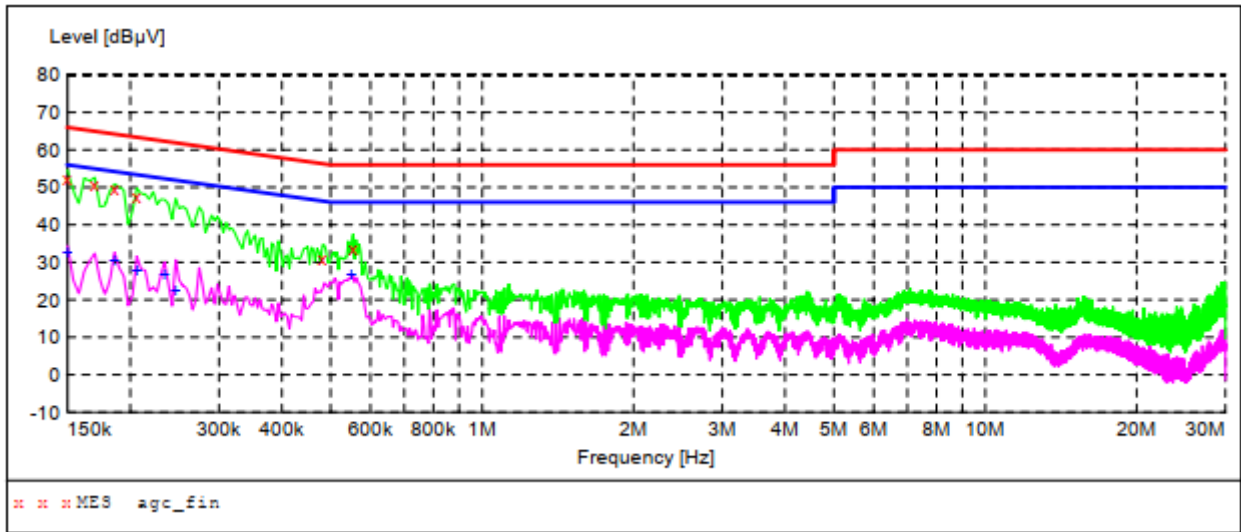
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case was reported on the Summary Data page.

12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



MEASUREMENT RESULT: "agc_fin"

2022/2/24 19:27

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000	52.20	6.9	66	13.8	QP	L1
0.170000	50.70	6.8	65	14.3	QP	L1
0.186000	49.50	6.6	64	14.7	QP	L1
0.206000	47.60	6.5	63	15.8	QP	L1
0.482000	30.70	5.4	56	25.6	QP	L1
0.554000	33.40	5.4	56	22.6	QP	L1

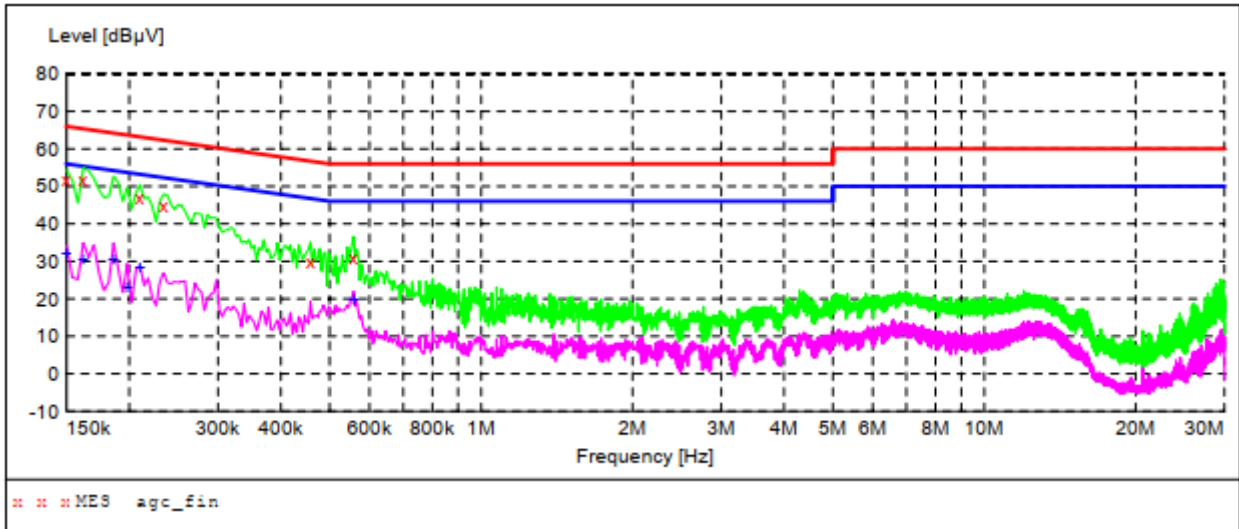
MEASUREMENT RESULT: "agc_fin2"

2022/2/24 19:27

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000	32.80	6.9	56	23.2	AV	L1
0.186000	30.40	6.6	54	23.8	AV	L1
0.206000	27.80	6.5	53	25.6	AV	L1
0.234000	26.50	6.3	52	25.8	AV	L1
0.246000	22.30	6.3	52	29.6	AV	L1
0.550000	26.70	5.4	46	19.3	AV	L1

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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT: "agc_fin"

2022/2/24 19:24

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000	51.80	6.9	66	14.2	QP	N
0.162000	52.00	6.8	65	13.4	QP	N
0.210000	47.00	6.5	63	16.2	QP	N
0.234000	45.00	6.3	62	17.3	QP	N
0.458000	30.00	5.5	57	26.7	QP	N
0.558000	30.70	5.4	56	25.3	QP	N

MEASUREMENT RESULT: "agc_fin2"

2022/2/24 19:24

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000	32.20	6.9	56	23.8	AV	N
0.162000	30.50	6.8	55	24.9	AV	N
0.186000	30.30	6.6	54	23.9	AV	N
0.198000	22.80	6.6	54	30.9	AV	N
0.210000	28.50	6.5	53	24.7	AV	N
0.558000	19.70	5.4	46	26.3	AV	N

RESULT: PASS

Note: All test channels had been tested. The 802.11a20 at 5825MHz of antenna 1 is the worst case and recorded in the test report.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC11034220106AP02

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC11034220106AP03

----END OF REPORT----

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8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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