



# **11. RADIATED EMISSION**

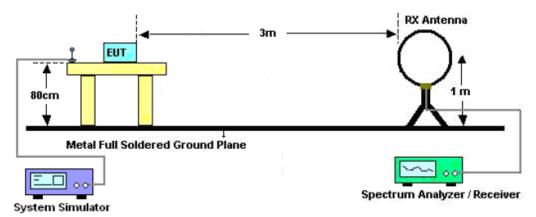
## **11.1. MEASUREMENT PROCEDURE**

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

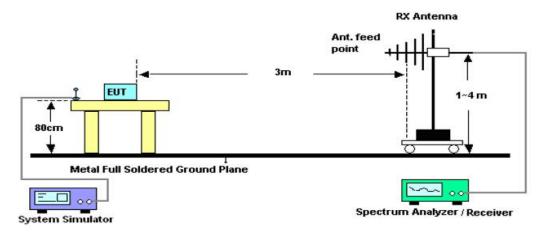


### 11.2. TEST SETUP

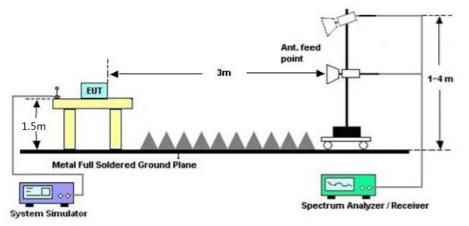
Radiated Emission Test-Setup Frequency Below 30MHz



### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



## RADIATED EMISSION TEST SETUP ABOVE 1000MHz





### **11.3. LIMITS AND MEASUREMENT RESULT**

15.209(a) Limit in the below table has to be followed

Frequencies (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

Note: All modes were tested for restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

### 11.4. TEST RESULT

### Radiated emission below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.



EUT

E1 Outdoor

Temperature	25°C		Relative Humidity		8%
Pressure	960hPa Test Voltage Norma			Iormal Voltage	
Test Mode	802.11g with date ra 2437MHz	ate 1	Antenna	Н	lorizontal
80.0 dBuV/m					
40		a a a a a a a a a a a a a a a a a a a			imit: largin: 5 5 M
0.0 30.000 127.00 No. Mk. 1 3'	224.00 321.00 418.0 224.00 321.00 418.0 Reading Level MHz dBuV 19.3833 18.72 90.5167 17.41	Correct M Factor	612.00 709.00 8   Measure- ment Limit   dBuV/m dBuV/m   35.59 46.00   35.88 46.00	06.00 Over dB -10.41 -10.12	

### Radiated emission from 30MHz to 1000MHz

**Model Name** 

WiFi IP Camera

### **RESULT: PASS**

3

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5

6 ļ

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469.7333

781.7500

904.6167

940.1833

19.21

18.34

18.91

17.43

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15.42

19.18

22.87

22.91

34.63

37.52

41.78

40.34

46.00

46.00

46.00

46.00

-11.37

-8.48

-4.22

-5.66

peak

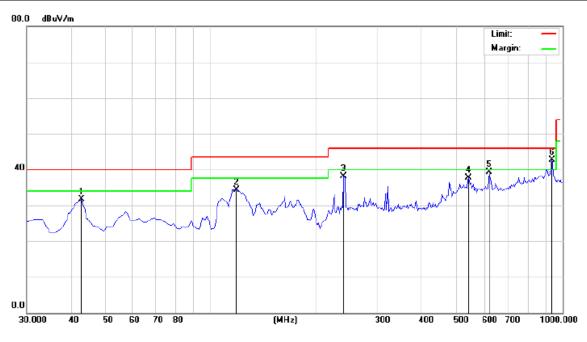
peak

peak

peak



EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with date rate 1 2437MHz	Antenna	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		42.9333	22.09	9.59	31.68	40.00	-8.32	peak
2		118.9167	21.54	12.70	34.24	43.50	-9.26	peak
3	:	240.1667	24.48	13.66	38.14	46.00	-7.86	peak
4		544.1000	19.46	18.30	37.76	46.00	-8.24	peak
5	(	621.7000	19.23	19.99	39.22	46.00	-6.78	peak
6	* (	936.9500	20.44	22.24	42.68	46.00	-3.32	peak

### **RESULT: PASS**

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

3. All test modes had been pre-tested. The 802.11g at middle channel of antenna 1 is the worst case and recorded in the report.



### Radiated emission above 1GHz

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with date rate 1 2412MHz	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type	
4824.000	56.37	0.08	56.45	74	-17.55	peak	
4824.000	45.28	0.08	45.36	54	-8.64	AVG	
7236.000	51.61	2.21	53.82	74	-20.18	peak	
7236.000	42.17	2.21	44.38	54	-9.62	AVG	
Remark:							
Factor = Anter	nna Factor + Cab	e Loss – Pre-a	amplifier.				

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with date rate 1 2412MHz	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.000	46.25	0.08	46.33	74	-27.67	peak
4824.000	45.16	0.08	45.24	54	-8.76	AVG
7236.000	53.14	2.21	55.35	74	-18.65	peak
7236.000	40.28	2.21	42.49	54	-11.51	AVG
Remark:						
actor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.			



EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with date rate 1 2437MHz	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.000	58.61	0.14	58.75	74	-15.25	peak
4874.000	47.94	0.14	48.08	54	-5.92	AVG
7311.000	52.16	2.36	54.52	74	-19.48	peak
7311.000	43.52	2.36	45.88	54	-8.12	AVG
Remark:						
Factor = Anter	na Factor + Cabl	e Loss – Pre-	amplifier.			

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with date rate 1 2437MHz	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.000	56.28	0.14	56.42	74	-17.58	peak
4874.000	47.52	0.14	47.66	54	-6.34	AVG
7311.000	50.26	2.36	52.62	74	-21.38	peak
7311.000	40.59	2.36	42.95	54	-11.05	AVG
Remark:						
actor = Anter	nna Factor + Cable	Loss – Pre-	amplifier.			



EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with date rate 1 2462MHz	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.000	55.31	0.22	55.53	74	-18.47	peak
4924.000	44.58	0.22	44.8	54	-9.2	AVG
7386.000	49.61	2.64	52.25	74	-21.75	peak
7386.000	40.26	2.64	42.9	54	-11.1	AVG
Remark:	1		ł			
Factor = Anter	na Factor + Cabl	e Loss – Pre-a	amplifier.			

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with date rate 1 2462MHz	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.000	57.64	0.22	57.86	74	-16.14	peak
4924.000	46.99	0.22	47.21	54	-6.79	AVG
7386.000	52.43	2.64	55.07	74	-18.93	peak
7386.000	43.05	2.64	45.69	54	-8.31	AVG
emark:						
actor = Anter	na Factor + Cable	e Loss – Pre-	amplifier.			

### **RESULT: PASS**

### Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11g mode of antenna 1 is the worst case and recorded in the report.



EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Horizontal

Test result for band edge emission at restricted bands-antenna 1

Test Graph for Peak Measurement



Test Graph for Average Measurement



# **RESULT: PASS**

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#### Report No.: AGC11034220104FE05 Page 96 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Vertical

### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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#### Report No.: AGC11034220104FE05 Page 97 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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#### Report No.: AGC11034220104FE05 Page 98 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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#### Report No.: AGC11034220104FE05 Page 99 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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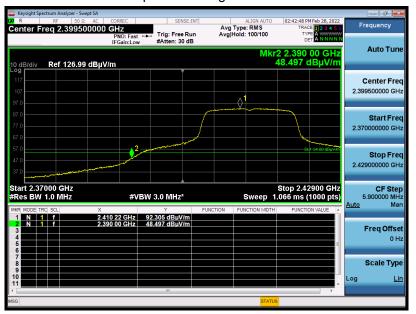
#### Report No.: AGC11034220104FE05 Page 100 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Vertical

### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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#### Report No.: AGC11034220104FE05 Page 101 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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#### Report No.: AGC11034220104FE05 Page 102 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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#### Report No.: AGC11034220104FE05 Page 103 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Horizontal

### Test Graph for Peak Measurement



Test Graph for Average Measurement



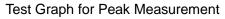
### **RESULT: PASS**

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#### Report No.: AGC11034220104FE05 Page 104 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Vertical





Test Graph for Average Measurement



### **RESULT: PASS**

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#### Report No.: AGC11034220104FE05 Page 105 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2462MHz	Antenna	Horizontal

### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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#### Report No.: AGC11034220104FE05 Page 106 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2462MHz	Antenna	Vertical

### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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#### Report No.: AGC11034220104FE05 Page 107 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 with data rate 13.5 2422MHz	Antenna	Horizontal

### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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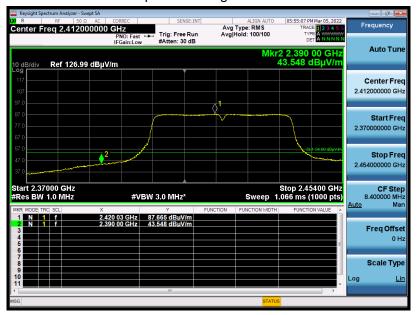
#### Report No.: AGC11034220104FE05 Page 108 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 with data rate 13.5 2422MHz	Antenna	Vertical

### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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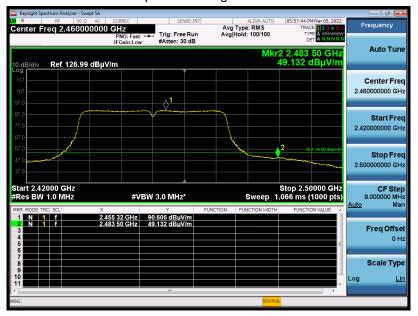
#### Report No.: AGC11034220104FE05 Page 109 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 with data rate 13.5 2452MHz	Antenna	Horizontal

### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.



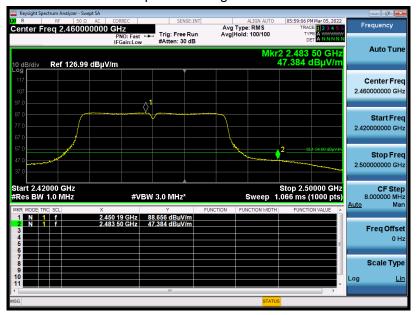
#### Report No.: AGC11034220104FE05 Page 110 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 with data rate 13.5 2452MHz	Antenna	Vertical

### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Horizontal

Test result for band edge emission at restricted bands-antenna 2

Test Graph for Peak Measurement



Test Graph for Average Measurement



# **RESULT: PASS**

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#### Attestation of Global Compliance(Shenzhen)Co., Ltd



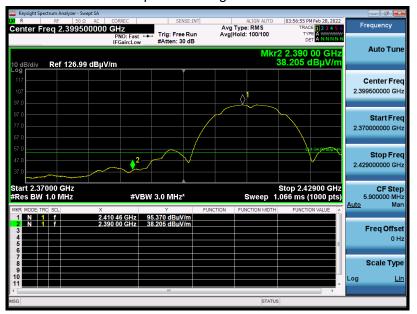
#### Report No.: AGC11034220104FE05 Page 112 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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#### Report No.: AGC11034220104FE05 Page 113 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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#### Report No.: AGC11034220104FE05 Page 114 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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#### Report No.: AGC11034220104FE05 Page 115 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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#### Report No.: AGC11034220104FE05 Page 116 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Vertical

### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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#### Report No.: AGC11034220104FE05 Page 117 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.



#### Report No.: AGC11034220104FE05 Page 118 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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#### Report No.: AGC11034220104FE05 Page 119 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Horizontal

### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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#### Report No.: AGC11034220104FE05 Page 120 of 130

EUT	WiFi IP Camera	Model Name	E1 Outdoor
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Vertical

### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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