

Report No.: AGC13202210902FE05 Page 55 of 79

EUT	Smart Battery Camera	Model Name	R2A
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

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the test report in the report is not permitted without the written authorization of AGE. 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 issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



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EUT	Smart Battery Camera	Model Name	R2A	
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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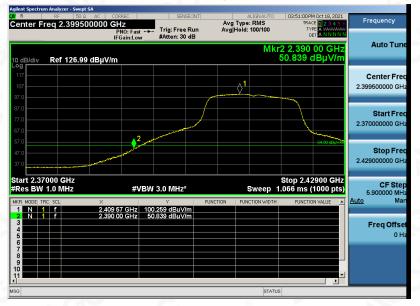
Report No.: AGC13202210902FE05 Page 57 of 79

EUT	Smart Battery Camera	Model Name	R2A
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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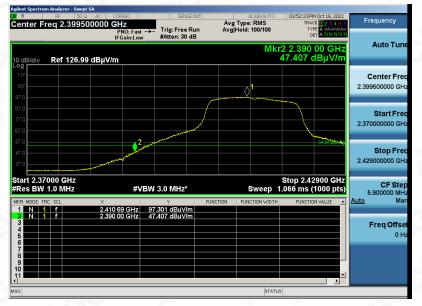
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EUT	Smart Battery Camera	Model Name	R2A
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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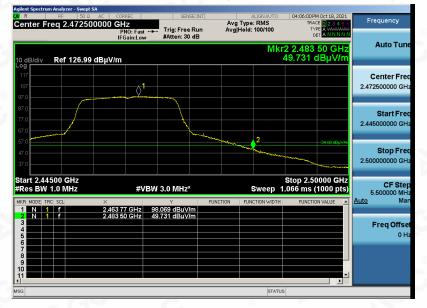
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EUT	Smart Battery Camera	Model Name	R2A
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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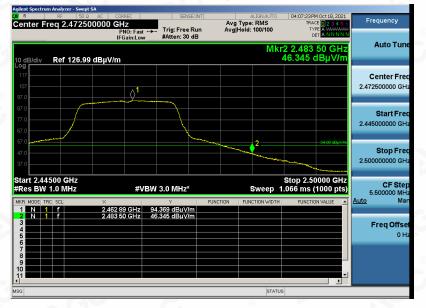
Report No.: AGC13202210902FE05 Page 60 of 79

EUT	Smart Battery Camera	Model Name	R2A		
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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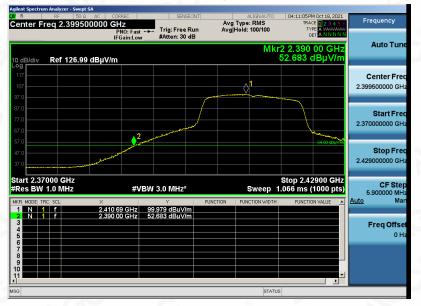
Report No.: AGC13202210902FE05 Page 61 of 79

EUT	Smart Battery Camera	Model Name	R2A
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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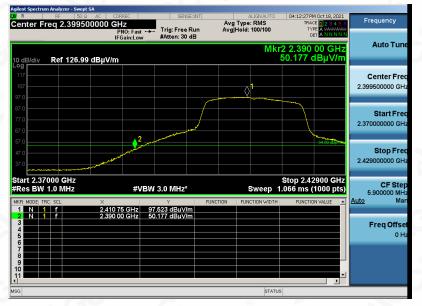
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EUT	Smart Battery Camera	Model Name	R2A
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the section of stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter authorization of AGE. 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 15day after the issues of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



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EUT	Smart Battery Camera	Model Name	R2A
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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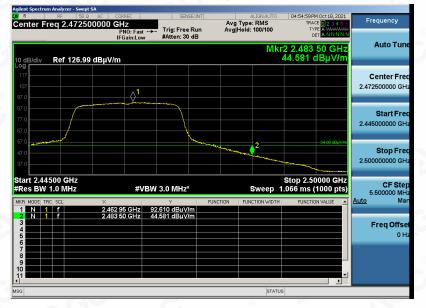
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EUT	Smart Battery Camera	Model Name	R2A
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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12. LINE CONDUCTED EMISSION TEST

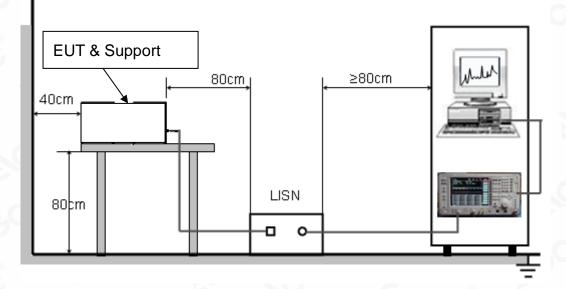
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frominant	Maximum RF Line Voltage			
Frequency	Q.P (dBµV)	Average (dBµV)		
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 0.50 MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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 DC 5V power from adapter which received AC120V/60Hz power from 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.

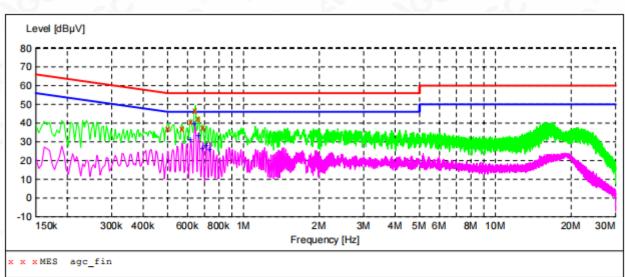
12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 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.

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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST



Line Conducted Emission Test Line 1-L

MEASUREMENT RESULT: "agc_fin"

2021/10/18 9:4	43						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBµV	dB	dBµV	dB			
0.502000	37.20	5.4	56	18.8	QP	L1	GND
0.570000	37.10	5.4	56	18.9	QP	L1	GND
0.618000	40.70	5.4	56	15.3	QP	L1	GND
0.646000	46.50	5.4	56	9.5	QP	L1	GND
0.662000	42.20	5.4	56	13.8	QP	L1	GND
0.690000	37.50	5.4	56	18.5	QP	L1	GND

MEASUREMENT RESULT: "agc fin2"

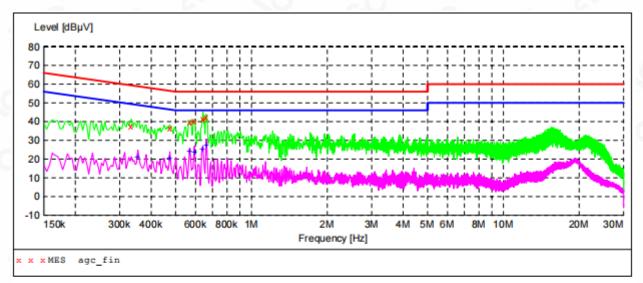
2021/10/18 9:43									
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE		
MHz	dBµV	dB	dBµV	dB					
0.618000	31.20	5.4	46	14.8	AV	L1	GND		
0.642000	39.90	5.4	46	6.1	AV	L1	GND		
0.666000	33.20	5.4	46	12.8	AV	L1	GND		
0.690000	26.30	5.4	46	19.7	AV	L1	GND		
0.714000	27.70	5.4	46	18.3	AV	L1	GND		
0.738000	25.90	5.4	46	20.1	AV	L1	GND		
0.750000	20.00	0.1	10	20.1			One		

RESULT: PASS

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MEASUREMENT RESULT: "agc fin"

2021/10/18 9:46									
Level	Transd	Limit	Margin	Detector	Line	PE			
dBµV	dB	dBµV	dB						
37.40	5.9	59	22.0	QP	N	GND			
36.40	5.5	56	20.0	QP	N	GND			
39.70	5.4	56	16.3	QP	N	GND			
40.00	5.4	56	16.0	QP	N	GND			
41.40	5.4	56	14.6	QP	N	GND			
42.20	5.4	56	13.8	QP	N	GND			
	Level dBµV 37.40 36.40 39.70 40.00 41.40	Level Transd dBµV dB 37.40 5.9 36.40 5.5 39.70 5.4 40.00 5.4 41.40 5.4	Level Transd Limit dBµV dB dBµV 37.40 5.9 59 36.40 5.5 56 39.70 5.4 56 40.00 5.4 56 41.40 5.4 56	Level Transd Limit Margin dBμV dB dBμV dB 37.40 5.9 59 22.0 36.40 5.5 56 20.0 39.70 5.4 56 16.3 40.00 5.4 56 16.0 41.40 5.4 56 14.6	Level Transd Limit Margin Detector dBμV dB dBμV dB dB dB 37.40 5.9 59 22.0 QP 36.40 5.5 56 20.0 QP 39.70 5.4 56 16.3 QP 40.00 5.4 56 16.0 QP 41.40 5.4 56 14.6 QP	Level Transd Limit Margin Detector Line dBμV dB dBμV dB <			

MEASUREMENT RESULT: "agc fin2"

202	21/10/18	9:46						
	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dBµV	dB	dBµV	dB			
	0.354000	20.80	5.8	49	28.1	AV	N	GND
	0.474000	20.50	5.5	46	25.9	AV	N	GND
	0.570000	24.10	5.4	46	21.9	AV	N	GND
	0.594000	23.70	5.4	46	22.3	AV	N	GND
	0.642000	25.50	5.4	46	20.5	AV	N	GND
	0.662000	27.60	5.4	46	18.4	AV	N	GND

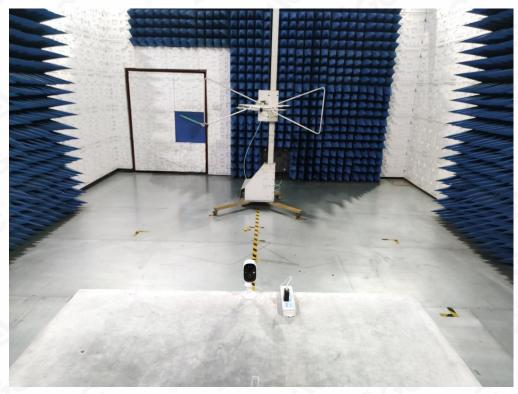
RESULT: PASS

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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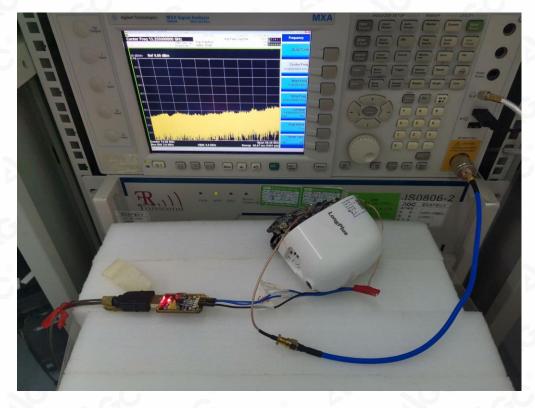


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CONDUCTED EMISSION TEST SETUP



CONDUCTED TEST SETUP



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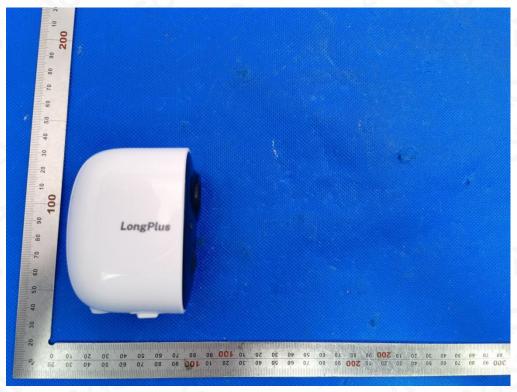


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APPENDIX B: PHOTOGRAPHS OF EUT ALL VIEW OF EUT

TOP VIEW OF EUT



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BOTTOM VIEW OF EUT

FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



VIEW OF EUT (PORT)



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OPEN VIEW OF EUT



INTERNAL VIEW-1 OF EUT



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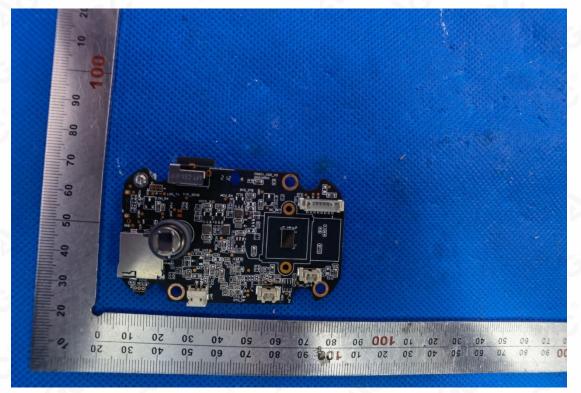


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INTERNAL VIEW-2 OF EUT



INTERNAL VIEW-3 OF EUT



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