#### Report No.: AGC12060210301FE05 Page 76 of 117





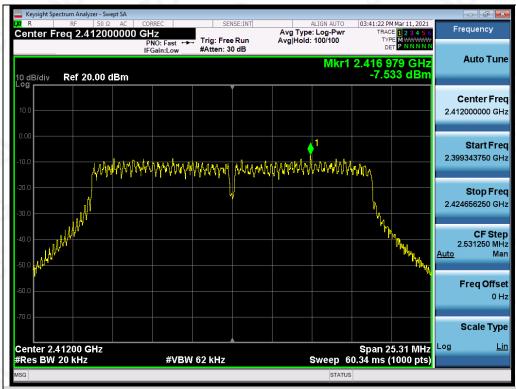
#### R RF Disk According Center Freq 2.462000000 GHz PNO: Fast 10:08:34 AM Mar 12, 2021 Avg Type: Log-Pw Avg|Hold: 100/100 Frequency Trig: Free Run #Atten: 30 dB TYF IFGai **Auto Tune** Mkr1 2.466 984 GHz -5.692 dBm 0 dB/div Ref 20.00 dBm Center Freq 2.462000000 GHz Start Freq 2.449767500 GHz Stop Freq 2.474232500 GHz CF Step 2.446500 MHz Mar Auto **Freq Offset** 0 Hz Scale Type Center 2.46200 GHz #Res BW 20 kHz Span 24.47 MHz L<sup>og</sup> Sweep 58.34 ms (1000 pts) Lin #VBW 62 kHz Test\_Graph\_802.11g\_ANT1\_2462\_6Mbps\_PSD

#### Test\_Graph\_802.11g\_ANT1\_2437\_6Mbps\_PSD

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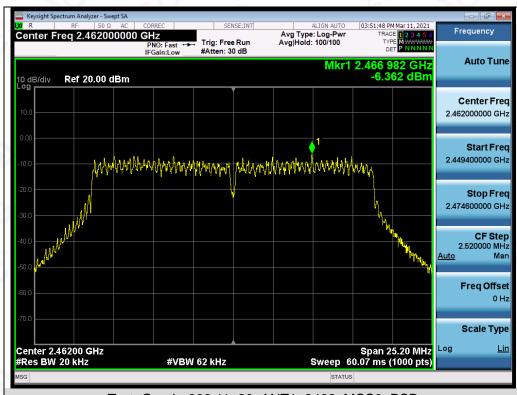
#### 10:11:13 AM Mar 12, 2021 Avg Type: Log-Pw Avg|Hold: 100/100 Frequency Center Freq 2.437000000 GHz Trig: Free Run #Atten: 30 dB TYF PNO: Fast IEGai **Auto Tune** Mkr1 2.441 982 GHz -7.389 dBm 0 dB/div Ref 20.00 dBm Center Freq 2.437000000 GHz Start Freq 2.424337000 GHz Man Manuta Manuta CLARDAALAAAAAAAA Stop Freq 2.449663000 GHz CF Step 2.532600 MHz Mar Auto **Freq Offset** 0 Hz Scale Type Center 2.43700 GHz #Res BW 20 kHz Span 25.33 MHz Log Sweep 60.41 ms (1000 pts) Lin #VBW 62 kHz Test\_Graph\_802.11n20\_ANT1\_2437\_MCS0\_PSD

#### Test\_Graph\_802.11n20\_ANT1\_2412\_MCS0\_PSD

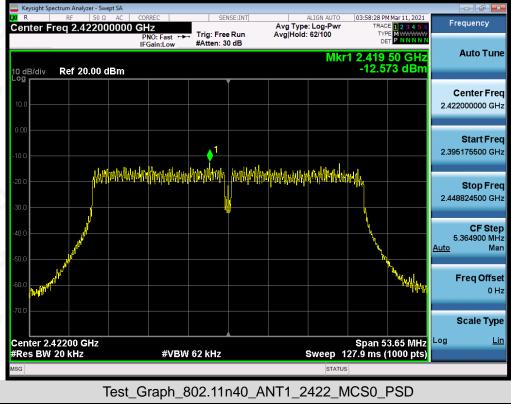
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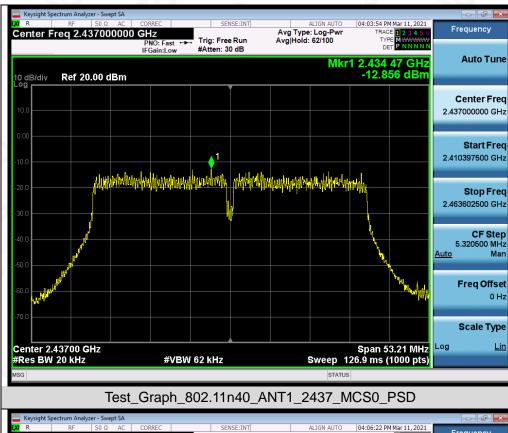
# Test\_Graph\_802.11n20\_ANT1\_2462\_MCS0\_PSD

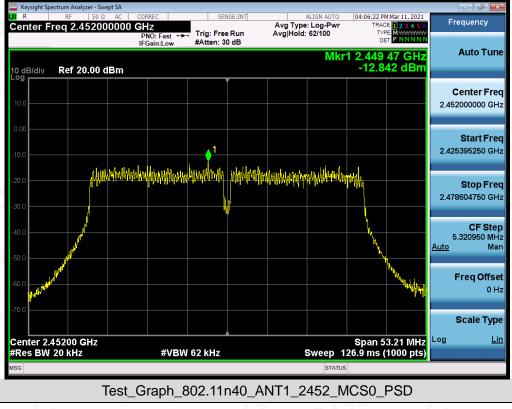


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### Test Graphs of Conducted Output Power Spectral Density

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Test\_Graph\_802.11b\_ANT2\_2412\_1Mbps\_PSD

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Test\_Graph\_802.11b\_ANT2\_2462\_1Mbps\_PSD

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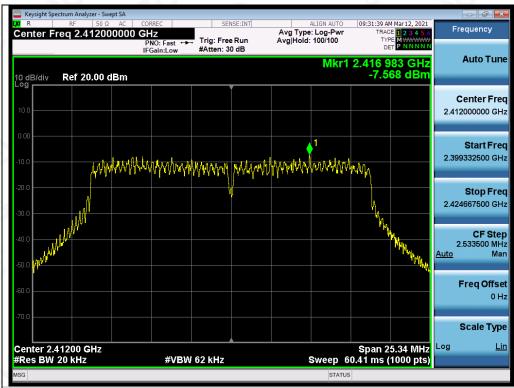


Test\_Graph\_802.11g\_ANT2\_2437\_6Mbps\_PSD

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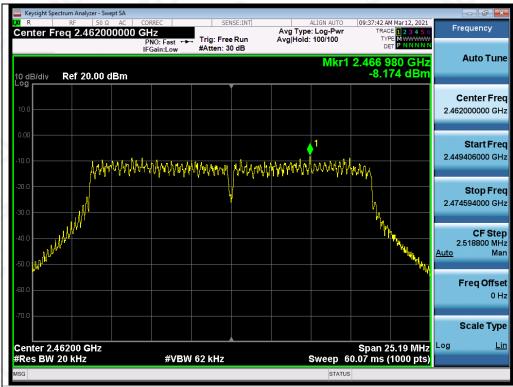
#### 09:35:15 AM Mar 12, 2021 Avg Type: Log-Pw Avg|Hold: 100/100 Frequency Center Freq 2.437000000 GHz Trig: Free Run #Atten: 30 dB TYF PNO: Fast IEGai **Auto Tune** Mkr1 2.441 980 GHz -6.394 dBm 0 dB/div Ref 20.00 dBm Center Freq 2.437000000 GHz Start Freq 2.424404500 GHz Stop Freq 2.449595500 GHz CF Step 2.519100 MHz Mar Auto **Freq Offset** 0 Hz Scale Type Center 2.43700 GHz #Res BW 20 kHz Span 25.19 MHz Log Sweep 60.07 ms (1000 pts) Lin #VBW 62 kHz Test\_Graph\_802.11n20\_ANT2\_2437\_MCS0\_PSD

Test\_Graph\_802.11n20\_ANT2\_2412\_MCS0\_PSD

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#### 09:43:17 AM Mar 12, 2021 Avg Type: Log-Pw Avg|Hold: 62/100 Frequency Center Freq 2.422000000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast IEGai **Auto Tune** Mkr1 2.436 97 GHz -11.442 dBm 0 dB/div Ref 20.00 dBm Center Freq 2.422000000 GHz Start Freq 2.395249750 GHz MARTHAMMAN an the second THE PARTY AND A Stop Freq 2.448750250 GHz CF Step 5.350050 MHz Auto Man Willi **Freq Offset** 0 Hz Scale Type Span 53.50 MHz Sweep 127.5 ms (1000 pts) Center 2.42200 GHz #Res BW 20 kHz Lin #VBW 62 kHz Test\_Graph\_802.11n40\_ANT2\_2422\_MCS0\_PSD

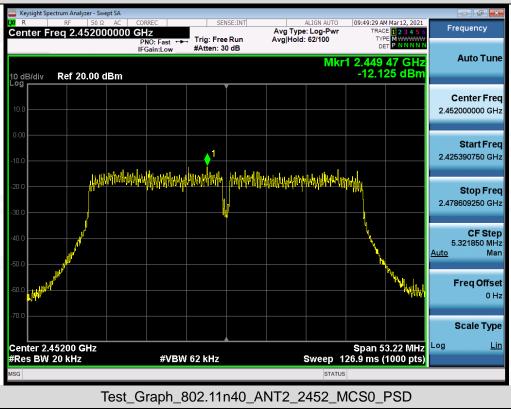
#### Test\_Graph\_802.11n20\_ANT2\_2462\_MCS0\_PSD

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#### Report No.: AGC12060210301FE05 Page 85 of 117







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## **11. RADIATED EMISSION**

### **11.1. MEASUREMENT PROCEDURE**

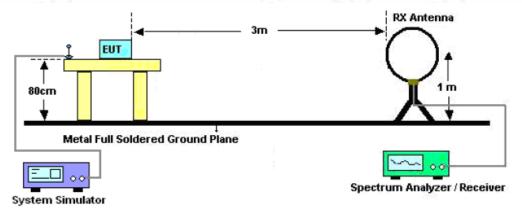
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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.

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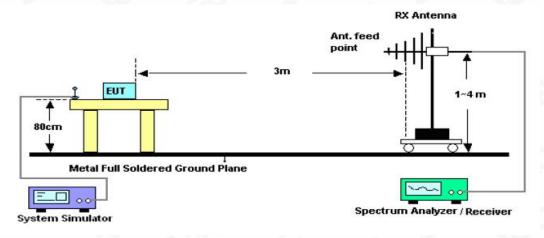


## 11.2. TEST SETUP

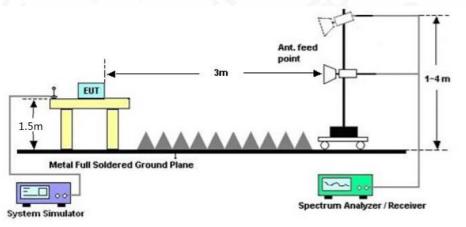




### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



## RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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### **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

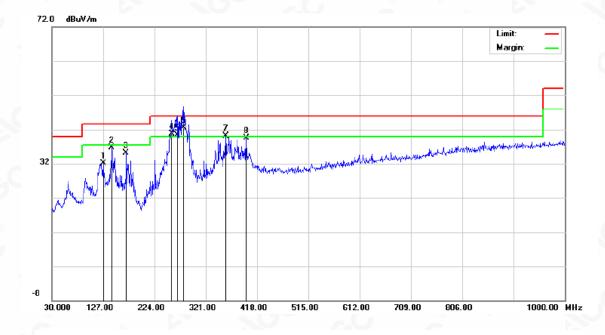
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the stand of t



EUT	Mini PC	Model Name	G34
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHz	Antenna	Horizontal

## Radiated emission from 30MHz to 1000MHz



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		127.0000	12.97	19.11	32.08	43.50	-11.42	peak
2		143.4900	15.87	20.87	36.74	43.50	-6.76	peak
3		170.6500	17.02	18.09	35.11	43.50	-8.39	peak
4	İ	256.9800	22.39	18.36	40.75	46.00	-5.25	QP
5	İ	267.6500	21.41	18.93	40.34	46.00	-5.66	QP
6	*	278.3200	22.73	19.80	42.53	46.00	-3.47	QP
7	İ	358.8299	16.52	23.53	40.05	46.00	-5.95	peak
8		397.6300	14.67	24.90	39.57	46.00	-6.43	peak

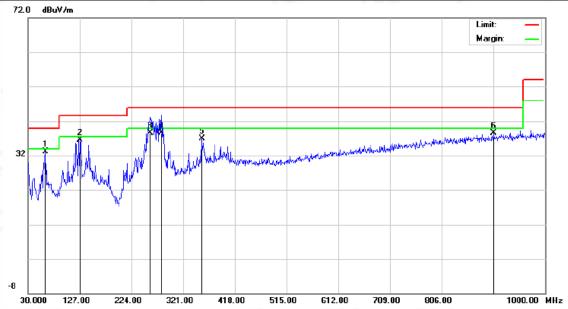
### **RESULT: PASS**

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EUT	Mini PC	Model Name	G34
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHz	Antenna	Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	62.9800	15.55	17.64	33.19	40.00	-6.81	peak
2		127.0000	17.37	19.11	36.48	43.50	-7.02	peak
3		259.8900	20.13	18.31	38.44	46.00	-7.56	QP
4		280.2600	18.62	19.96	38.58	46.00	-7.42	QP
5		355.9200	13.56	23.43	36.99	46.00	-9.01	peak
6		903.9700	6.81	31.73	38.54	46.00	-7.46	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 of antenna 1 and antenna 2 had been pre-tested. The 802.11b, g of antenna 1 is the worst case and recorded in the report. For 802.11n mode, the worst case Antenna 1 has more than 3dB margins, so the MIMO mode also compliance the limit.

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### **Radiated emission above 1GHz**

EUT	Mini PC	Model Name	G34
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHz	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	- Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.000	52.36	0.08	52.44	74	-21.56	peak
4824.000	41.38	0.08	41.46	54	-12.54	AVG
7236.000	51.13	2.21	53.34	74	-20.66	peak
7236.000	39.74	2.21	41.95	54	-12.05	AVG
		©			~67	- 6

EUT	Mini PC	Model Name	G34
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b 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	52.23	0.08	52.31	74	-21.69	peak
4824.000	39.17	0.08	39.25	54	-14.75	AVG
7236.000	50.74	2.21	52.95	74	-21.05	peak
7236.000	38.22	2.21	40.43	<sup>©</sup> 54	-13.57	AVG
C.	(8)			G	3	
<u> </u>	- C	0			<u> </u>	
emark:		C	8		- 6	
actor = Anter	na Factor + Cable	e Loss – Pre-	amplifier.			

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EUT	Mini PC	Model Name	G34
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHz	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Malua Tar
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.000	52.33	0.14	52.47	74	-21.53	peak
4874.000	40.74	0.14	40.88	54	-13.12	AVG
7311.000	51.13	2.36	53.49	74	-20.51	peak
7311.000	38.77	2.36	41.13	54	-12.87	AVG
		6	(P)			
emark:		Loc C		ß		

EUT	Mini PC	Model Name	G34
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(A)	, , , , , , , , , , , , , , , , , , ,					Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
4874.000	50.17	0.14	50.31	74	-23.69	peak
4874.000	40.28	0.14	40.42	54	-13.58	AVG
7311.000	49.33	2.36	51.69	74	-22.31	peak
7311.000	40.18	2.36	42.54	<sup>©</sup> 54	-11.46	AVG
- C.	8		0	G	8	
<u>_</u> O <u>_</u>	- Ci				<u> </u>	
emark:		C	8		- 6	
actor = Anter	nna Factor + Cable	e Loss – Pre-	amplifier.			

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2437MHz



### Report No.: AGC12060210301FE05 Page 93 of 117

EUT	Mini PC	Model Name	G34
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b 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	52.22	0.22	52.44	74	-21.56	opeak
4924.000	39.17	0.22	39.39	54	-14.61	AVG
7386.000	51.18	2.64	53.82	74	-20.18	peak
7386.000	39.04	2.64	41.68	54	-12.32	AVG
.C	0		G	- C	8	
		0				6
emark:						

EUT	Mini PC	Model Name	G34
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHz	Antenna	Vertical

iding Facto /) (dB)		evel Limits	Margin	
1 (dB)				<ul> <li>Value Type</li> </ul>
, (ub)	) (dBµV/m	i) (dBµV/m)	) (dB)	
0.22	2 52.25	74	-21.75	peak
0.22	41.41	54	-12.59	AVG
2.64	53.01	74	-20.99	peak
2.64	41.78	54	-12.22	AVG
		e O		
			8	
		G	- C	0
-	- Cable Loss –	- Cable Loss – Pre-amplifier	Cable Loss – Pre-amplifier	- Cable Loss – Pre-amplifier.

### **RESULT: PASS**

#### Note:

1. 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.

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

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

4. All test modes of antenna 1 and antenna 2 had been pre-tested. The 802.11b, g of antenna 1 is the worst case and recorded in the report. For 802.11n mode, the worst case Antenna 1 has more than 3dB margins, so the MIMO mode also compliance the limit.

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 Attestation of Global Compliance(Shenzhen)Co., Ltd

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 Tel: +86-755 2523 4088
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#### Report No.: AGC12060210301FE05 Page 94 of 117

EUT	Mini PC	Model Name	G34
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

### Test Graph for Peak Measurement



Test Graph for Average Measurement



### **RESULT: PASS**

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#### Report No.: AGC12060210301FE05 Page 95 of 117

EUT	Mini PC	Model Name	G34
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**

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the section (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 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	Mini PC	Model Name	G34
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 "Dedicated Perturn/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 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 issue of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



#### Report No.: AGC12060210301FE05 Page 97 of 117

EUT	Mini PC	Model Name	G34
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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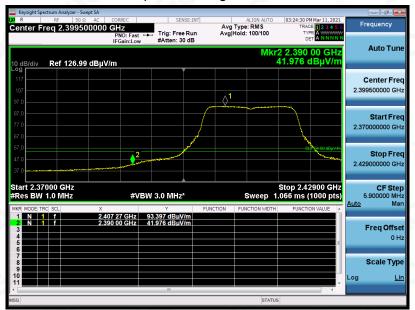
#### Report No.: AGC12060210301FE05 Page 98 of 117

EUT	Mini PC	Model Name	G34
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.: AGC12060210301FE05 Page 99 of 117

EUT	Mini PC	Model Name	G34
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.: AGC12060210301FE05 Page 100 of 117

EUT	Mini PC	Model Name	G34
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 Perturn/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 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 issue of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



#### Report No.: AGC12060210301FE05 Page 101 of 117

EUT	Mini PC	Model Name	G34
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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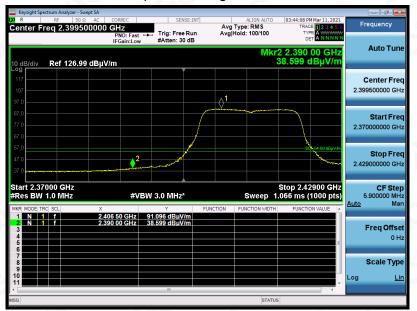
#### Report No.: AGC12060210301FE05 Page 102 of 117

EUT	Mini PC	Model Name	G34
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.: AGC12060210301FE05 Page 103 of 117

EUT	Mini PC	Model Name	G34
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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EUT	Mini PC	Model Name	G34
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.: AGC12060210301FE05 Page 105 of 117

EUT	Mini PC	Model Name	G34
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**

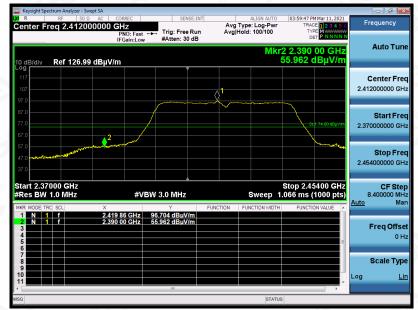
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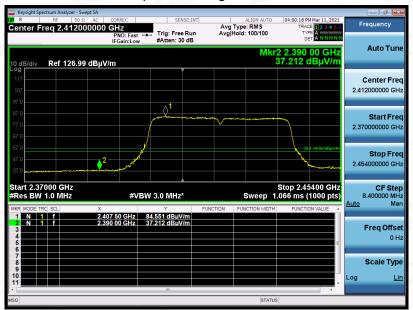
#### Report No.: AGC12060210301FE05 Page 106 of 117

EUT	Mini PC	Model Name	G34
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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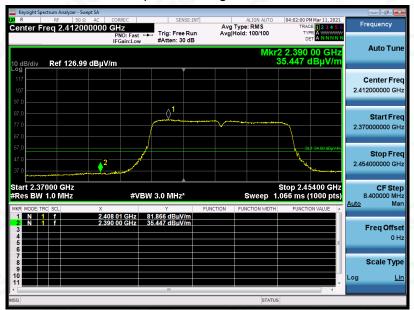
#### Report No.: AGC12060210301FE05 Page 107 of 117

EUT	Mini PC	Model Name	G34
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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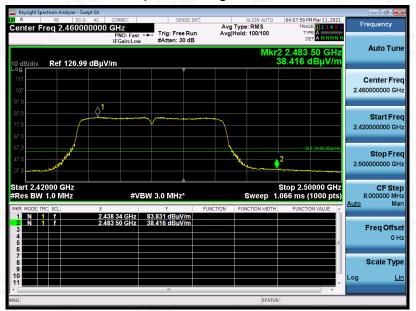
#### Report No.: AGC12060210301FE05 Page 108 of 117

EUT	Mini PC	Model Name	G34
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**

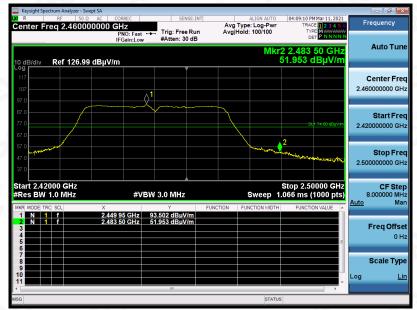
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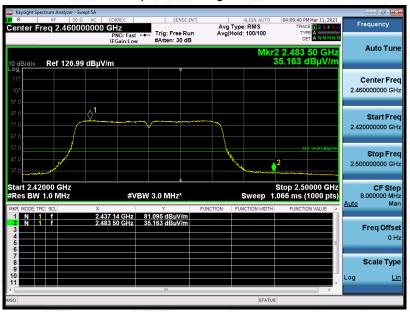
#### Report No.: AGC12060210301FE05 Page 109 of 117

EUT	Mini PC	Model Name	G34
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**

Note: All test modes of antenna 1 and antenna 2 had been pre-tested. The 802.11b, g of antenna 1 is the worst case and recorded in the report. For 802.11n mode, the worst case Antenna 1 has more than 3dB margins, so

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the MIMO mode also compliance the limit.

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