



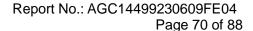
EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	802.11b with data rate 1_2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement





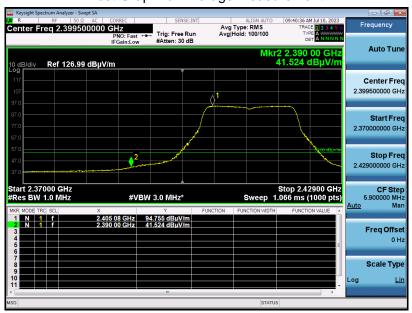


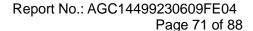
EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	802.11g with data rate 6_2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement





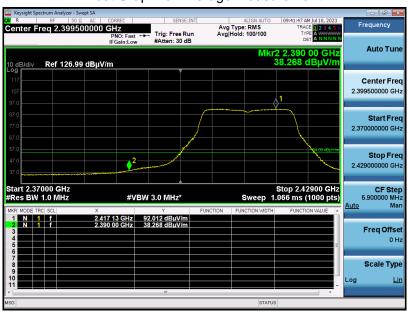


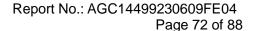
EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	802.11g with data rate 6_2412MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement







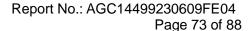
EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	802.11g with data rate 6_2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement





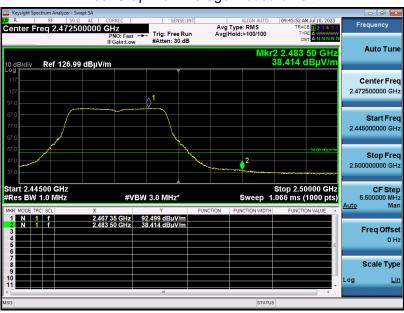


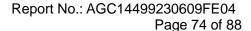
EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement

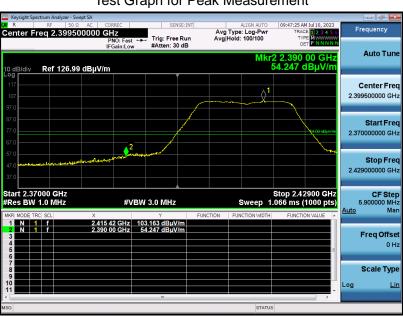






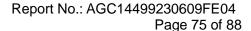
EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement





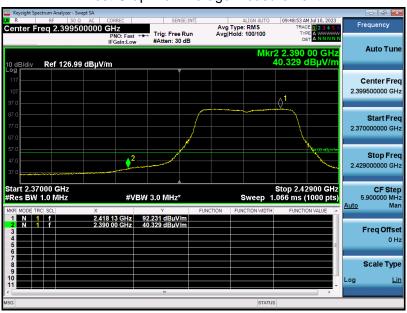


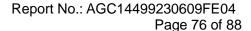
EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement







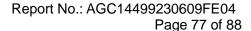
EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	802.11n20 with data rate 6.5 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement







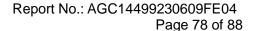
EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	802.11n20 with data rate 6.5 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement





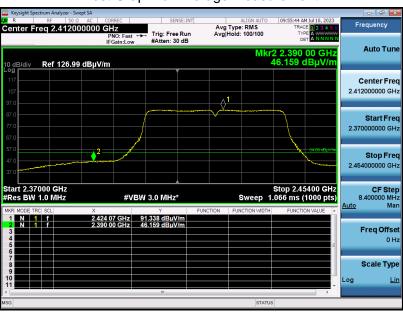


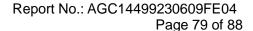
EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	802.11n40 with data rate 13.5 2422MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement







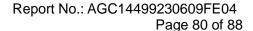
EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	802.11n40 with data rate 13.5 2422MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement





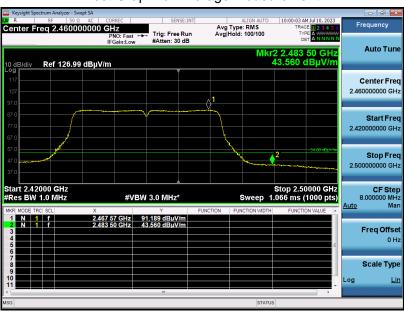


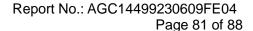
EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	802.11n40 with data rate 13.5 2452MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement





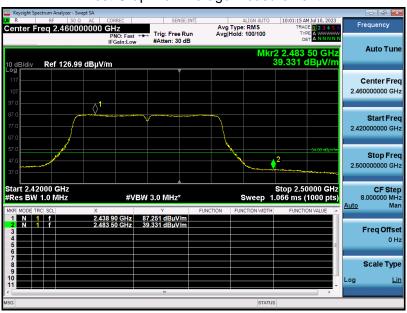


EUT	IP Phone	Model Name	X305
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	DC 5V
Test Mode	802.11n40 with data rate 13.5 2452MHz	Antenna	Vertical

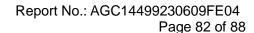
Test Graph for Peak Measurement



Test Graph for Average Measurement



**Note:** All voltages are tested. The test data of the worst case (DC 5V) was reported on the Summary Data page.





### 12. LINE CONDUCTED EMISSION TEST

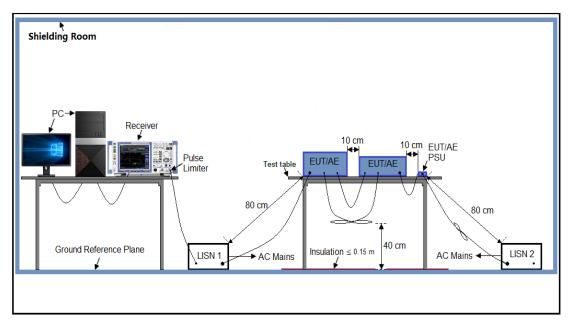
### 12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	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

- 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 DC 5V power from adapter or DC 48V power from PoE 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.

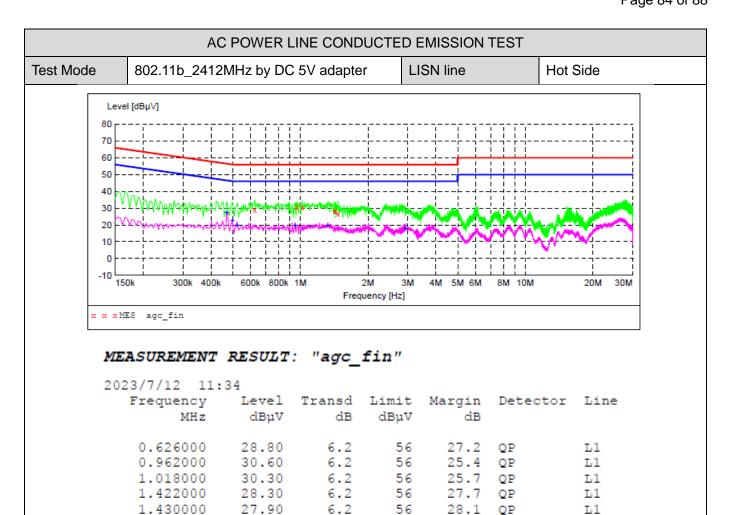
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

## 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.
- 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 (802.11b) was reported on the Summary Data page.

#### 12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST





### MEASUREMENT RESULT: "agc\_fin2"

26.60

1.470000

2023/7/12 11 Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line
0.470000 0.498000 0.522000 0.946000 1.322000 2.914000	27.60 22.60 20.00 19.70 19.70 18.20	6.1 6.1 6.2 6.2 6.3	47 46 46 46 46	26.0 26.3	AV AV AV	L1 L1 L1 L1 L1

6.2

56

29.4

QP

L1

#### **RESULT: PASS**



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# MEASUREMENT RESULT: "agc\_fin"

2023/7/12 11:	38					
Frequency MHz	Level dBµV	Transd dB		Margin dB	Detector	Line
0.470000	36.50	6.1	57	20.0	QP	N
0.494000	32.50	6.1	56	23.6	QP	N
0.842000	27.50	6.2	56	28.5	QP	N
0.866000	27.90	6.2	56	28.1	QP	N
0.986000	28.80	6.2	56	27.2	QP	N
1.846000	29.20	6.2	56	26.8	QP	N

#### MEASUREMEN

20	023/7/12 11:	38					
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
	0.450000	22.90	6.1	47	24.0	AV	N
	0.470000	32.90	6.1	47	13.6	AV	N
	0.518000	24.90	6.1	46	21.1	AV	N
	0.542000	25.30	6.1	46	20.7	AV	N
	0.898000	23.50	6.2	46	22.5	AV	N
	0.922000	23.00	6.2	46	23.0	AV	N

### **RESULT: PASS**

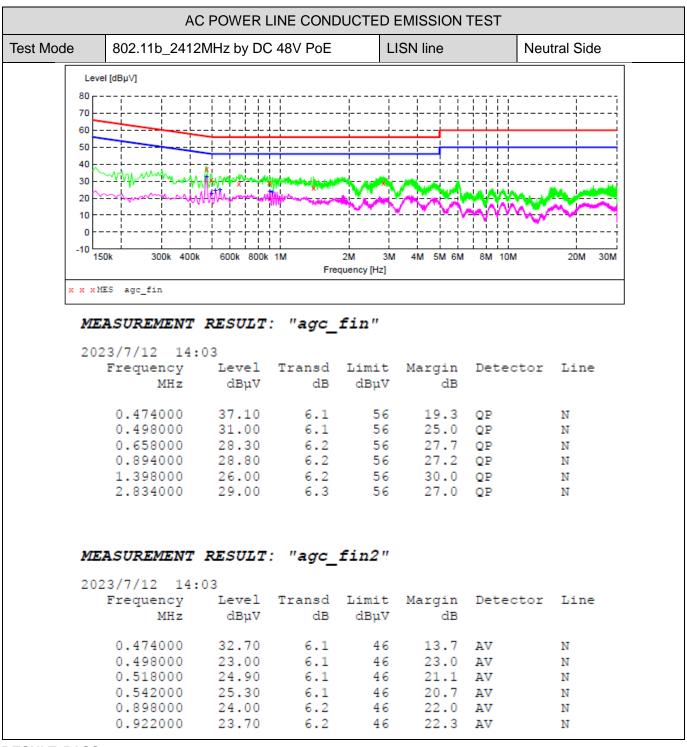
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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/



Mode	802.11b_2412	MHz by DC	48V PoE	LI	ISN line	F	Hot Side
Lev	el [dBµV]						
80 -							
70 -							
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			Fre	quency [Hz]			
x x xl	MES agc_fin						
ME	ASUREMENT	PESIITT	: "agc	fin"			
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2.0	23/7/12 14:	0.0					
20			_				
20	Frequency	Level	Transd		Margin	Detect	or Line
20			Transd dB	Limit dBµV	Margin dB	Detect	or Line
20	Frequency MHz	Level dBµV	dB	dΒμV	dB		
20	Frequency	Level			_	Detect	or Line L1 L1
20	Frequency MHz	Level dBµV 33.20	dB 6.1	dBμV 56	dB 22.9	QP	L1
20	Frequency MHz 0.494000 0.618000 0.918000 0.946000	Level dBµV 33.20 28.80 29.90 30.70	dB 6.1 6.2 6.2 6.2	dBμV 56 56 56 56	dB 22.9 27.2 26.1 25.3	QP QP	L1 L1 L1 L1
20	0.494000 0.618000 0.918000 0.946000 1.042000	Level dBμV 33.20 28.80 29.90 30.70 30.20	dB 6.1 6.2 6.2 6.2 6.2	dBμV 56 56 56 56 56	22.9 27.2 26.1 25.3 25.8	QP QP QP QP QP	L1 L1 L1 L1 L1
20	Frequency MHz 0.494000 0.618000 0.918000 0.946000	Level dBµV 33.20 28.80 29.90 30.70	dB 6.1 6.2 6.2 6.2	dBμV 56 56 56 56	dB 22.9 27.2 26.1 25.3	QP QP QP QP	L1 L1 L1 L1
	0.494000 0.618000 0.918000 0.946000 1.042000	Level dBμV 33.20 28.80 29.90 30.70 30.20	dB 6.1 6.2 6.2 6.2 6.2	dBμV 56 56 56 56 56	22.9 27.2 26.1 25.3 25.8	QP QP QP QP QP	L1 L1 L1 L1 L1
МЕ	Frequency MHz 0.494000 0.618000 0.918000 0.946000 1.042000 1.362000	Level dBμV 33.20 28.80 29.90 30.70 30.20	dB 6.1 6.2 6.2 6.2 6.2	dBμV 56 56 56 56 56	22.9 27.2 26.1 25.3 25.8	QP QP QP QP QP	L1 L1 L1 L1 L1
МЕ	Frequency MHz 0.494000 0.618000 0.918000 0.946000 1.042000 1.362000	Level dBµV 33.20 28.80 29.90 30.70 30.20 28.10	dB 6.1 6.2 6.2 6.2 6.2 6.2	dBμV 56 56 56 56 56	dB 22.9 27.2 26.1 25.3 25.8 27.9	QP QP QP QP QP QP	L1 L1 L1 L1 L1
МЕ	Frequency MHz 0.494000 0.618000 0.918000 0.946000 1.042000 1.362000 EASUREMENT 23/7/12 14: Frequency	Level dBµV 33.20 28.80 29.90 30.70 30.20 28.10	dB 6.1 6.2 6.2 6.2 6.2 6.2	dBµV 56 56 56 56 56 56	dB 22.9 27.2 26.1 25.3 25.8 27.9	QP QP QP QP QP QP	L1 L1 L1 L1 L1
МЕ	Frequency MHz 0.494000 0.618000 0.918000 0.946000 1.042000 1.362000 EASUREMENT 23/7/12 14: Frequency MHz	Level dBµV 33.20 28.80 29.90 30.70 30.20 28.10 Level dBµV	dB 6.1 6.2 6.2 6.2 6.2 6.2 Transd dB	dBμV 56 56 56 56 56 56	dB 22.9 27.2 26.1 25.3 25.8 27.9 Margin dB	QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1
МЕ	Frequency MHz 0.494000 0.618000 0.918000 0.946000 1.042000 1.362000 EASUREMENT 23/7/12 14: Frequency MHz	Level dBµV 33.20 28.80 29.90 30.70 30.20 28.10 Level dBµV 27.10	dB 6.1 6.2 6.2 6.2 6.2 6.2	dBµV 56 56 56 56 56 56 56	dB 22.9 27.2 26.1 25.3 25.8 27.9 Margin dB	QP QP QP QP QP QP	L1 L1 L1 L1 L1
МЕ	Frequency MHz 0.494000 0.618000 0.918000 0.946000 1.042000 1.362000 CASUREMENT 23/7/12 14: Frequency MHz 0.474000	Level dBµV 33.20 28.80 29.90 30.70 30.20 28.10 Level dBµV	dB 6.1 6.2 6.2 6.2 6.2 6.2 6.2	dBµV 56 56 56 56 56 56 56 46 46	dB 22.9 27.2 26.1 25.3 25.8 27.9  Margin dB	QP QP QP QP QP QP AV	L1 L1 L1 L1 L1 L1
МЕ	Frequency MHz 0.494000 0.618000 0.918000 0.946000 1.042000 1.362000 EASUREMENT 23/7/12 14: Frequency MHz 0.474000 0.494000 0.522000 1.066000	Level dBµV 33.20 28.80 29.90 30.70 30.20 28.10 Level dBµV 27.10 25.50 20.60 19.10	dB 6.1 6.2 6.2 6.2 6.2 6.2 6.1 6.1 6.1 6.1 6.1	dBµV 56 56 56 56 56 56 46 46 46	dB  22.9  27.2  26.1  25.3  25.8  27.9  Margin  dB  19.3  20.6  25.4  26.9	QP QP QP QP QP QP AV AV AV	L1 L1 L1 L1 L1 L1 L1
ME	Frequency MHz 0.494000 0.618000 0.918000 0.946000 1.042000 1.362000 EASUREMENT 23/7/12 14: Frequency MHz 0.474000 0.494000 0.522000	Level dBµV 33.20 28.80 29.90 30.70 30.20 28.10 Level dBµV 27.10 25.50 20.60 19.10 19.20	dB 6.1 6.2 6.2 6.2 6.2 6.2 6.2 6.1 6.1 6.1	dBµV 56 56 56 56 56 56 46 46 46 46	dB  22.9  27.2  26.1  25.3  25.8  27.9  Margin  dB  19.3  20.6  25.4	QP QP QP QP QP QP AV AV AV AV	L1 L1 L1 L1 L1 L1 L1







Report No.: AGC14499230609FE04

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## **APPENDIX I: PHOTOGRAPHS OF TEST SETUP**

Refer to the Report No.: AGC14499230609AP01

APPENDIX II: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC14499230609AP02

----END OF REPORT----



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- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
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