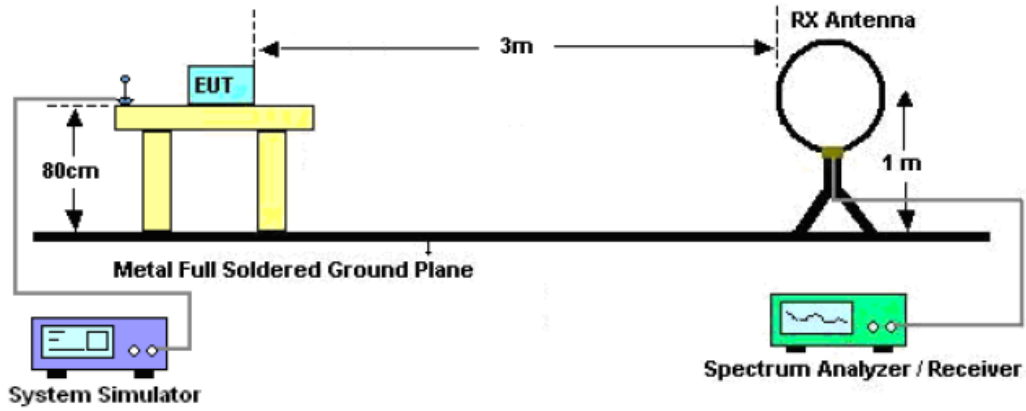
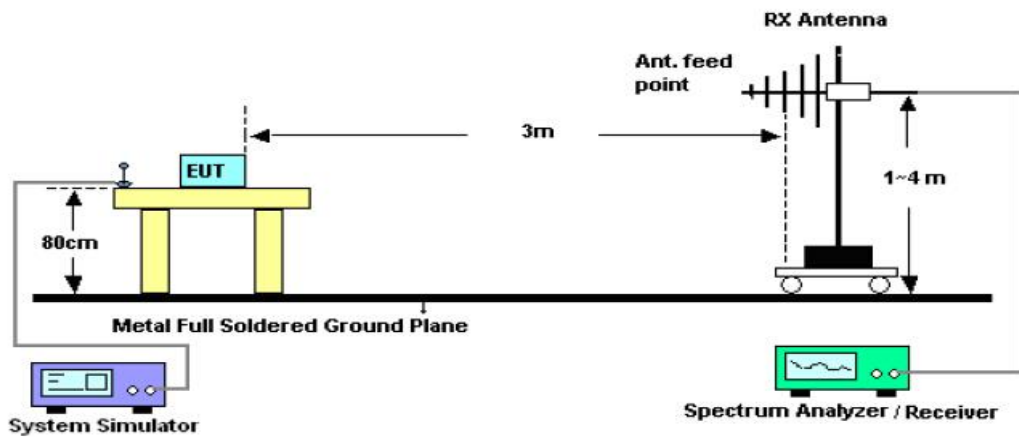


11.2. TEST SETUP

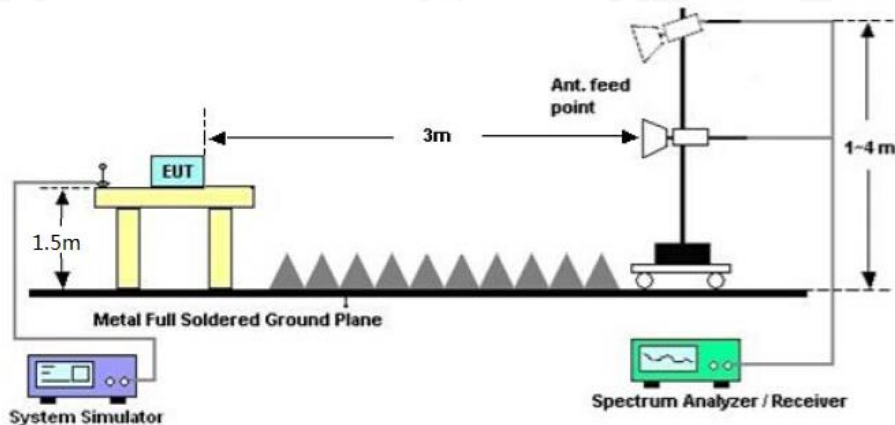
Radiated Emission Test-Setup Frequency Below 30MHz



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 (micorvolts/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

No emission found between lowest internal used/generated frequencies to 30MHz.

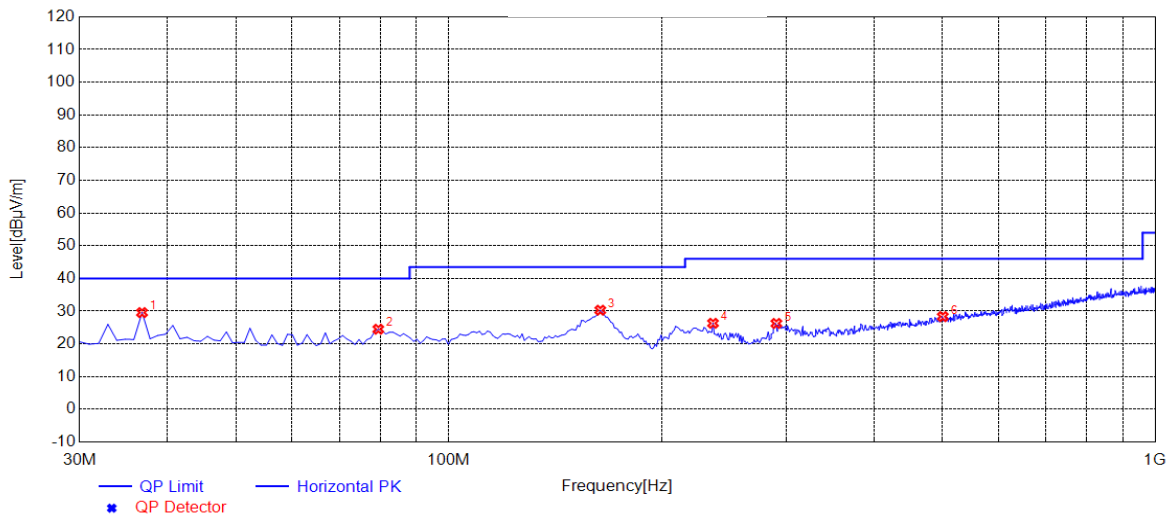
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RADIATED EMISSION BELOW 1GHZ

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	36.7900	29.57	14.16	40.00	10.43	200	9	Horizontal
2	79.4700	24.49	10.26	40.00	15.51	200	356	Horizontal
3	163.8600	30.30	14.55	43.50	13.20	100	234	Horizontal
4	236.6100	26.31	14.57	46.00	19.69	200	108	Horizontal
5	290.9300	26.26	16.09	46.00	19.74	100	133	Horizontal
6	500.4500	28.34	22.19	46.00	17.66	100	305	Horizontal

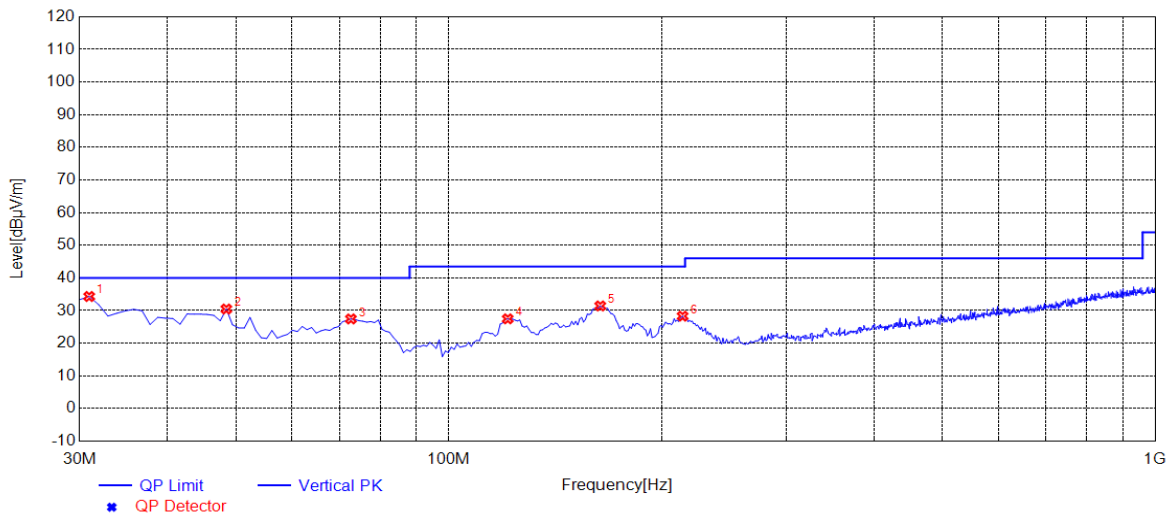
RESULT: PASS

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EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	30.9700	34.33	13.02	40.00	5.67	100	109	Vertical
2	48.4300	30.49	14.71	40.00	9.51	100	66	Vertical
3	72.6800	27.45	11.67	40.00	12.55	100	181	Vertical
4	121.1800	27.48	13.55	43.50	16.02	100	331	Vertical
5	163.8600	31.43	14.55	43.50	12.07	100	9	Vertical
6	214.3000	28.30	12.92	43.50	15.20	100	246	Vertical

RESULT: PASS

Note: All test channels had been tested. The 802.11a20 at 5180MHz is the worst case and recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

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

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RADIATED EMISSION ABOVE 1GHZ

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
10360.042	48.61	9.14	57.75	74.00	-16.25	peak
10360.042	39.14	9.14	48.28	54.00	-5.72	AVG
15540.063	42.13	10.22	52.35	74.00	-21.65	peak
15540.063	34.84	10.22	45.06	54.00	-8.94	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBµV)	Factor (dB)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Value Type
10360.042	46.28	9.14	55.42	74.00	-18.58	peak
10360.042	37.41	9.14	46.55	54.00	-7.45	AVG
15540.063	42.56	10.22	52.78	74.00	-21.22	peak
15540.063	33.15	10.22	43.37	54.00	-10.63	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5240MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10480.042	46.95	9.27	56.22	74.00	-17.78	peak
10480.042	37.48	9.27	46.75	54.00	-7.25	AVG
15720.063	43.26	10.38	53.64	74.00	-20.36	peak
15720.063	34.18	10.38	44.56	54.00	-9.44	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10480.042	47.15	9.27	56.42	74.00	-17.58	peak
10480.042	36.25	9.27	45.52	54.00	-8.48	AVG
15720.063	43.84	10.38	54.22	74.00	-19.78	peak
15720.063	34.33	10.38	44.71	54.00	-9.29	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Note: All the case had been tested. The 802.11a modulation is the worst case and recorded in the test report. Other frequencies radiation emission from 1GHz to 40GHz at least have 20dB margin and not recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

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

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12. BAND EDGE EMISSION

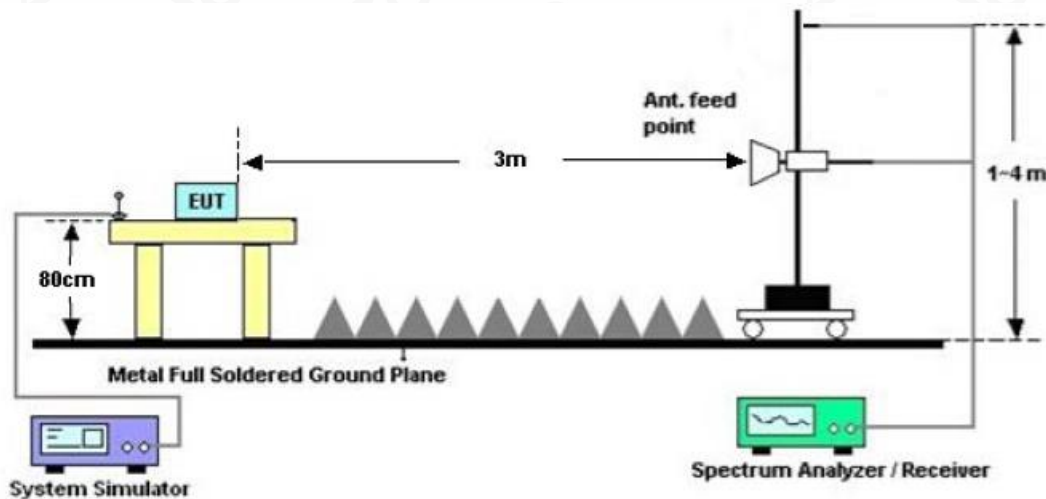
12.1. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO
(b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO
3. Other procedures refer to clause 11.2.

Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.
3. Only the data of band edge emission at the restricted band 4.5GHz-5.15GHz record in the report. Other restricted band 5.35GHz-5.46GHz and 7.25GHz-7.77GHz were considered as ambient noise. No recording in the test report.

12.2. TEST SET-UP

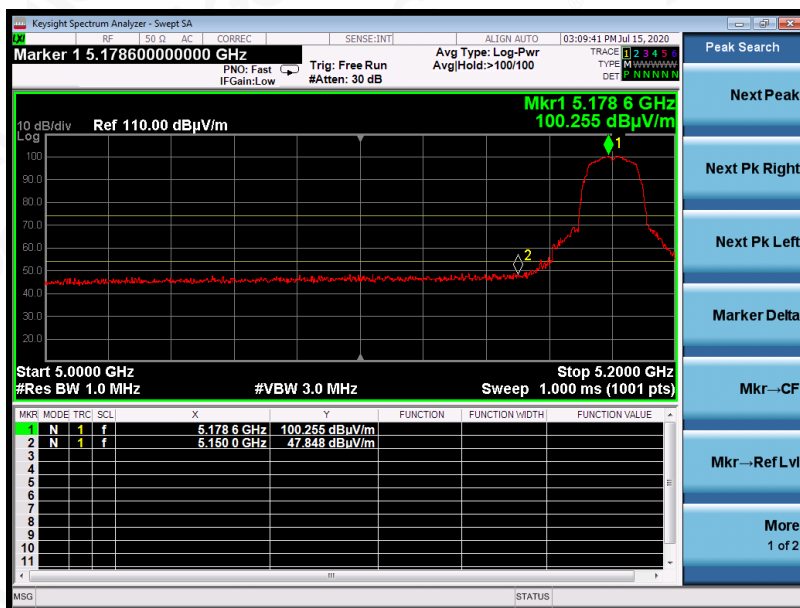


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12.3. TEST RESULT

EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

PK Value



AV Value



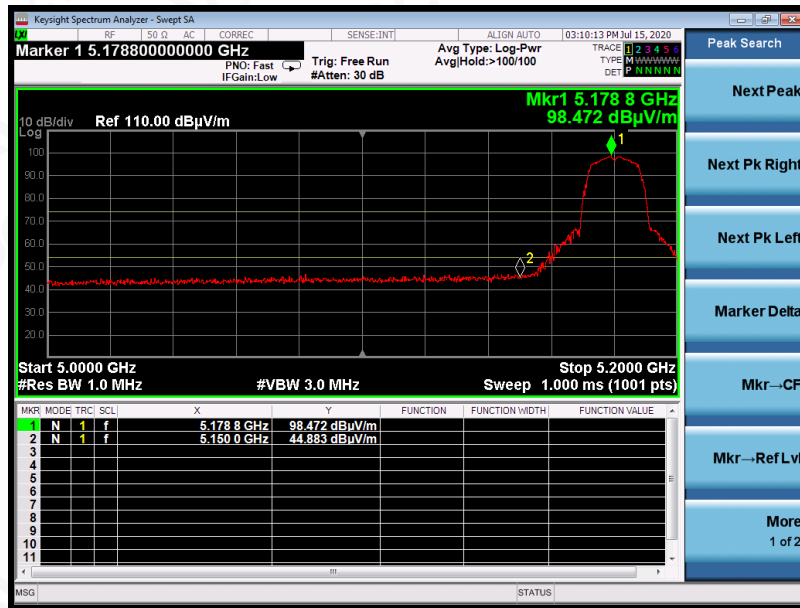
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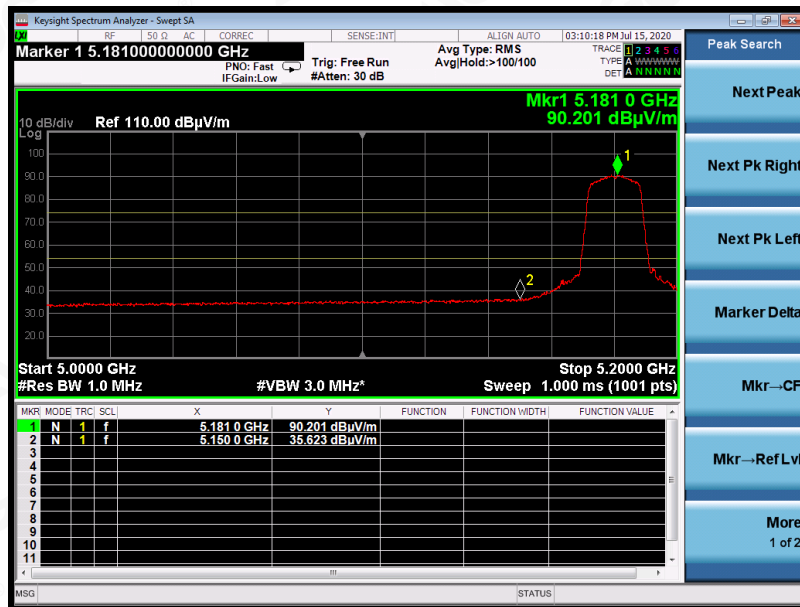


EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical

PK Value



AV Value



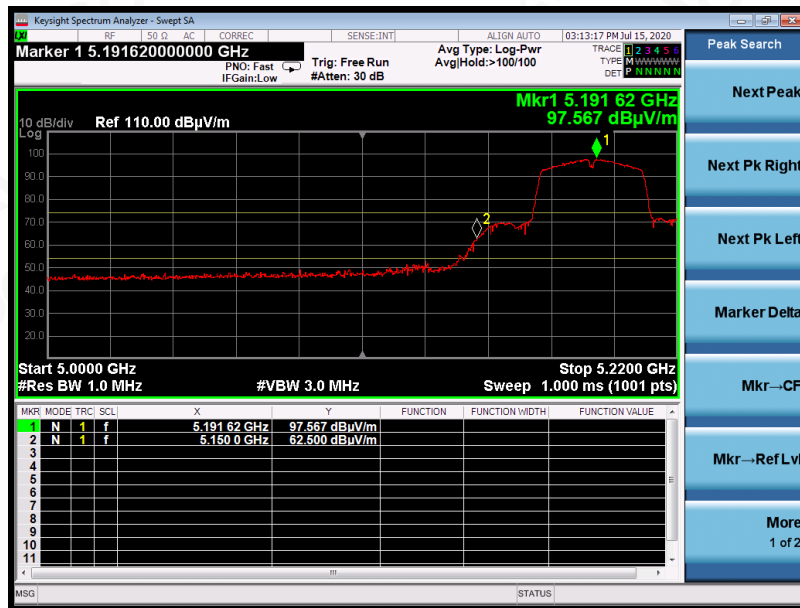
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EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Horizontal

PK Value



AV Value



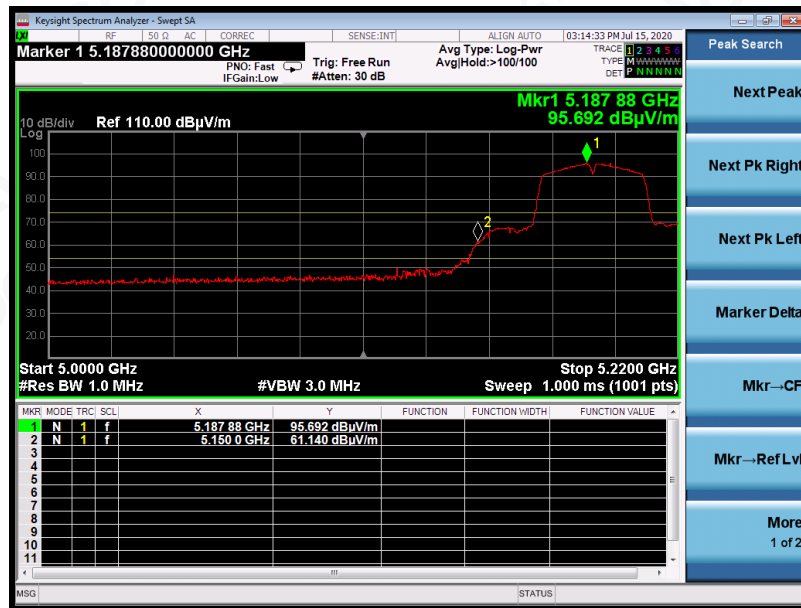
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EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Vertical

PK Value



AV Value



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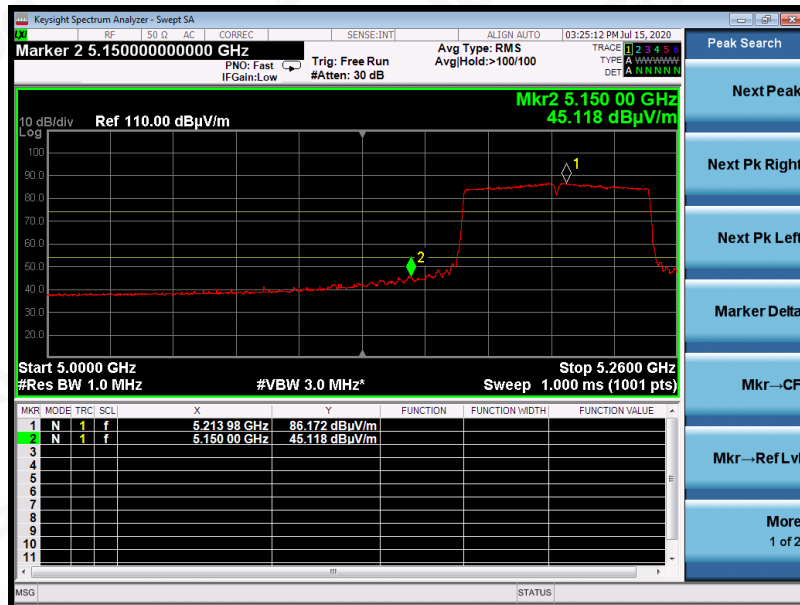


EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Horizontal

PK Value



AV Value



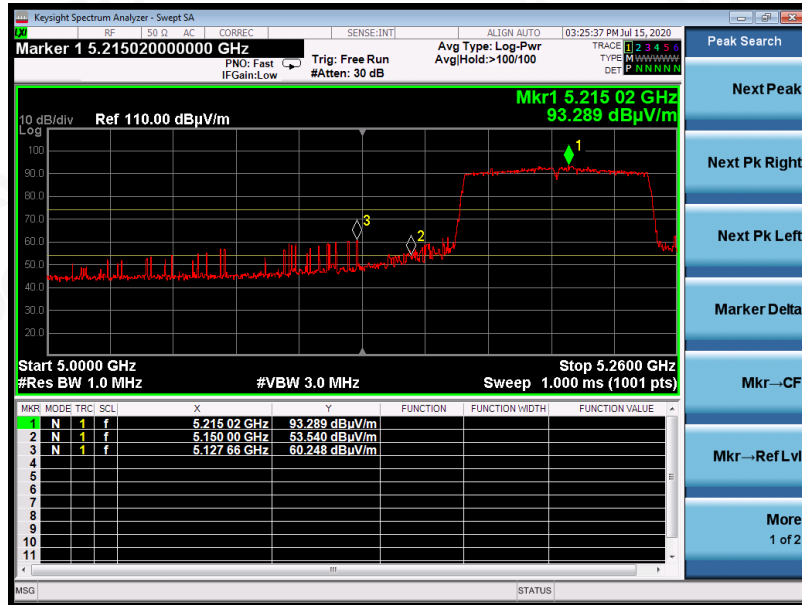
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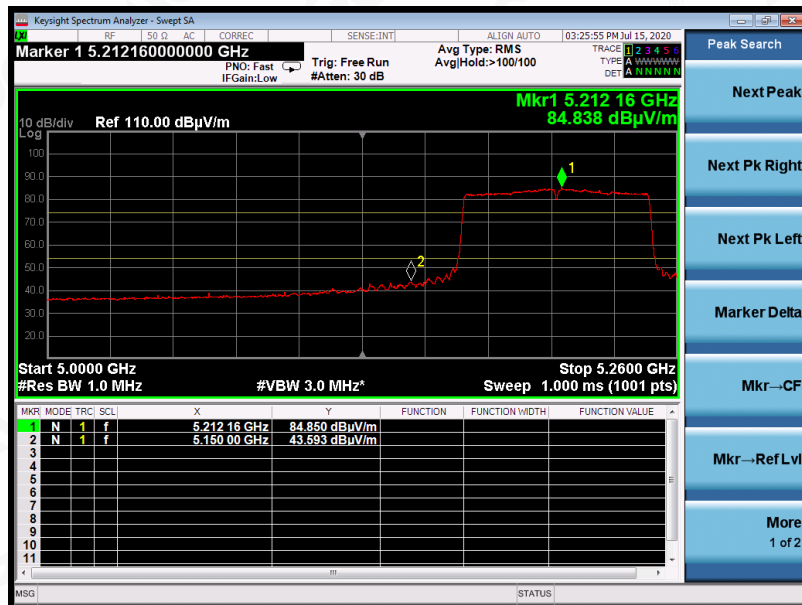


EUT	TABLET PC	Model Name	HM-PAN-110
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Vertical

PK Value



AV Value



RESULT: PASS

Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report.

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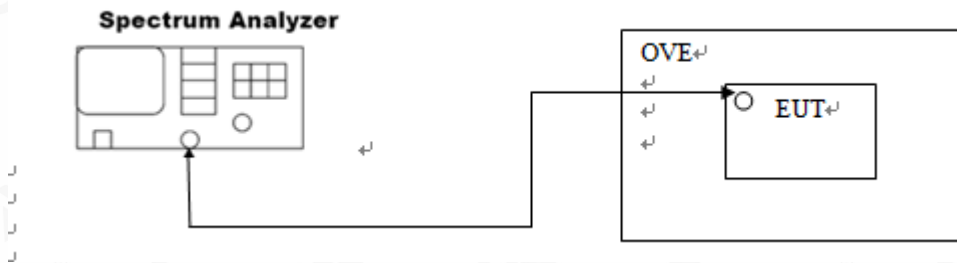


13. FREQUENCY STABILITY

13.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the operation frequency.
3. Set SPA Centre Frequency = Operation Frequency. SPAN=enough to measure the emission is maintained within the band
4. Set SPA Trace 1 Max hold, then View.
5. Extreme temperature rule is -10°C~60°C.

13.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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13.3. MEASUREMENT RESULTS

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11a	- 10°C	5180	within the band	PASS
	0°C	5180	within the band	PASS
	10°C	5180	within the band	PASS
	20°C	5180	within the band	PASS
	30°C	5180	within the band	PASS
	40°C	5180	within the band	PASS
	50°C	5180	within the band	PASS
	60°C	5180	within the band	PASS
	- 10°C	5240	within the band	PASS
	0°C	5240	within the band	PASS
	10°C	5240	within the band	PASS
	20°C	5240	within the band	PASS
	30°C	5240	within the band	PASS
	40°C	5240	within the band	PASS
	50°C	5240	within the band	PASS
	60°C	5240	within the band	PASS

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11n20	- 10°C	5180	within the band	PASS
	0°C	5180	within the band	PASS
	10°C	5180	within the band	PASS
	20°C	5180	within the band	PASS
	30°C	5180	within the band	PASS
	40°C	5180	within the band	PASS
	50°C	5180	within the band	PASS
	60°C	5180	within the band	PASS
	- 10°C	5240	within the band	PASS
	0°C	5240	within the band	PASS
	10°C	5240	within the band	PASS
	20°C	5240	within the band	PASS
	30°C	5240	within the band	PASS
	40°C	5240	within the band	PASS
	50°C	5240	within the band	PASS
	60°C	5240	within the band	PASS

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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11ac20	- 10°C	5180	within the band	PASS
	0°C	5180	within the band	PASS
	10°C	5180	within the band	PASS
	20°C	5180	within the band	PASS
	30°C	5180	within the band	PASS
	40°C	5180	within the band	PASS
	50°C	5180	within the band	PASS
	60°C	5180	within the band	PASS
	- 10°C	5240	within the band	PASS
	0°C	5240	within the band	PASS
	10°C	5240	within the band	PASS
	20°C	5240	within the band	PASS
	30°C	5240	within the band	PASS
	40°C	5240	within the band	PASS
	50°C	5240	within the band	PASS
	60°C	5240	within the band	PASS

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11n40	- 10°C	5190	within the band	PASS
	0°C	5190	within the band	PASS
	10°C	5190	within the band	PASS
	20°C	5190	within the band	PASS
	30°C	5190	within the band	PASS
	40°C	5190	within the band	PASS
	50°C	5190	within the band	PASS
	60°C	5190	within the band	PASS
	- 10°C	5230	within the band	PASS
	0°C	5230	within the band	PASS
	10°C	5230	within the band	PASS
	20°C	5230	within the band	PASS
	30°C	5230	within the band	PASS
	40°C	5230	within the band	PASS
	50°C	5230	within the band	PASS
	60°C	5230	within the band	PASS

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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11ac40	- 10°C	5190	within the band	PASS
	0°C	5190	within the band	PASS
	10°C	5190	within the band	PASS
	20°C	5190	within the band	PASS
	30°C	5190	within the band	PASS
	40°C	5190	within the band	PASS
	50°C	5190	within the band	PASS
	60°C	5190	within the band	PASS
	- 10°C	5230	within the band	PASS
	0°C	5230	within the band	PASS
	10°C	5230	within the band	PASS
	20°C	5230	within the band	PASS
	30°C	5230	within the band	PASS
	40°C	5230	within the band	PASS
	50°C	5230	within the band	PASS
	60°C	5230	within the band	PASS

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
802.11ac80	- 10°C	5210	within the band	PASS
	0°C	5210	within the band	PASS
	10°C	5210	within the band	PASS
	20°C	5210	within the band	PASS
	30°C	5210	within the band	PASS
	40°C	5210	within the band	PASS
	50°C	5210	within the band	PASS
	60°C	5210	within the band	PASS

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14. FCC LINE CONDUCTED EMISSION TEST

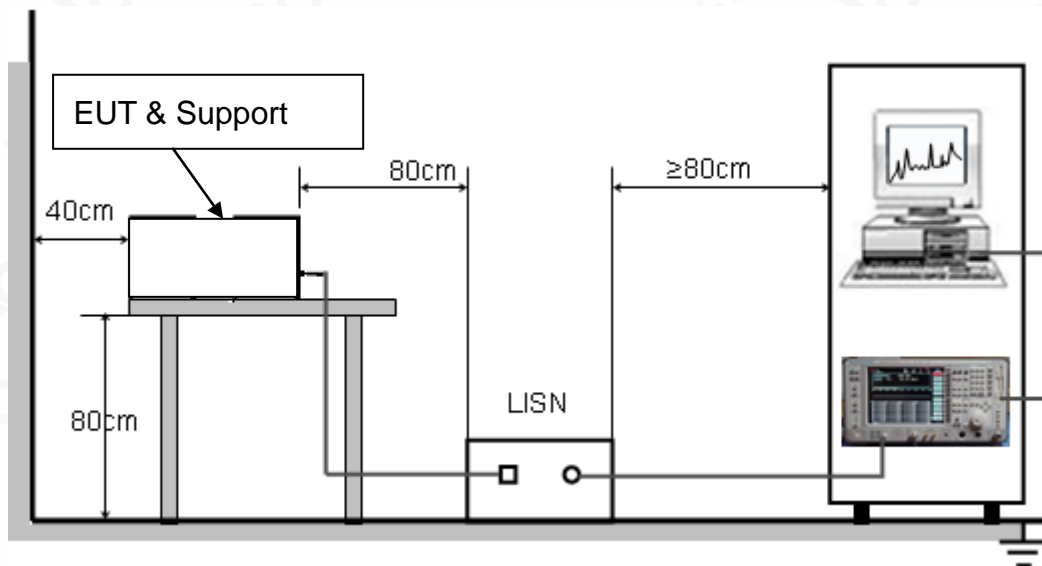
14.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
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.

14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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14.3. 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 equipments 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.

14.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

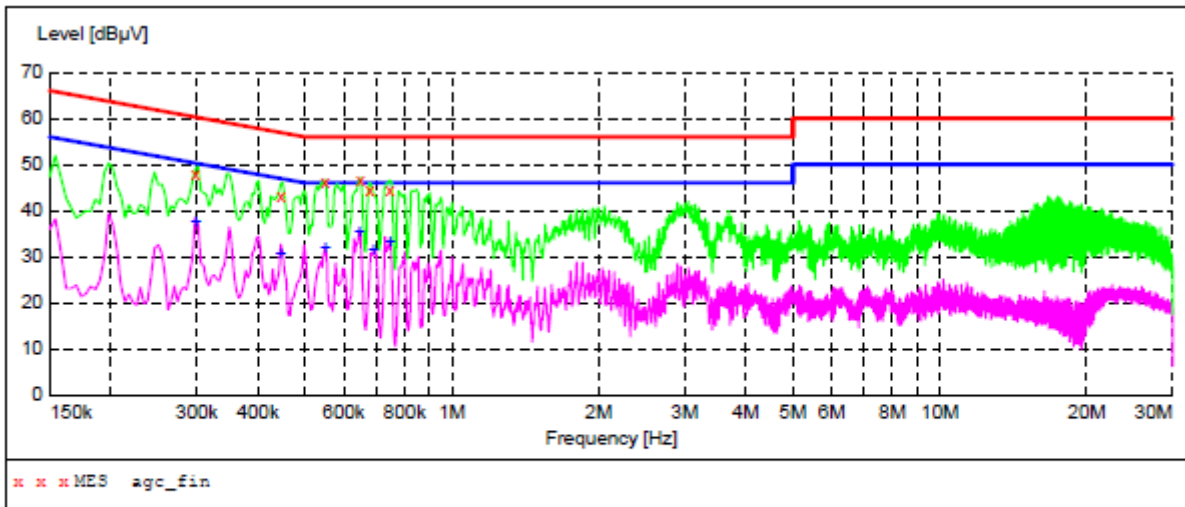
1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used 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 condition(s) was reported on the Summary Data page.

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14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



MEASUREMENT RESULT: "agc_fin"

2020/7/14 10:08

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.298000	48.00	9.3	60	12.3	QP	L1	FLO
0.446000	43.10	9.3	57	13.8	QP	L1	FLO
0.550000	46.20	9.3	56	9.8	QP	L1	FLO
0.650000	46.50	9.3	56	9.5	QP	L1	FLO
0.678000	44.50	9.3	56	11.5	QP	L1	FLO
0.746000	44.60	9.3	56	11.4	QP	L1	FLO

MEASUREMENT RESULT: "agc_fin2"

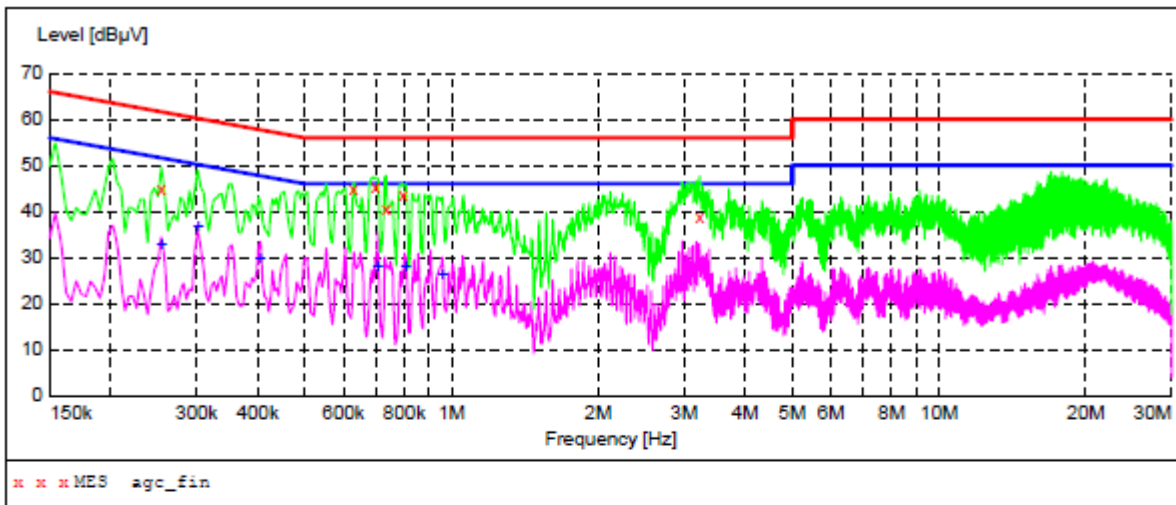
2020/7/14 10:08

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.298000	37.40	9.3	50	12.9	AV	L1	FLO
0.446000	30.80	9.3	47	16.1	AV	L1	FLO
0.550000	31.80	9.3	46	14.2	AV	L1	FLO
0.646000	35.30	9.3	46	10.7	AV	L1	FLO
0.690000	31.40	9.3	46	14.6	AV	L1	FLO
0.746000	33.20	9.3	46	12.8	AV	L1	FLO

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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT: "agc_fin"

2020/7/14 10:01

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.254000	45.10	9.3	62	16.5	QP	N	FLO
0.630000	44.80	9.3	56	11.2	QP	N	FLO
0.698000	45.40	9.3	56	10.6	QP	N	FLO
0.734000	40.80	9.3	56	15.2	QP	N	FLO
0.794000	43.50	9.3	56	12.5	QP	N	FLO
3.230000	38.80	9.4	56	17.2	QP	N	FLO

MEASUREMENT RESULT: "agc_fin2"

2020/7/14 10:01

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.254000	32.90	9.3	52	18.7	AV	N	FLO
0.302000	36.70	9.3	50	13.5	AV	N	FLO
0.406000	29.60	9.3	48	18.1	AV	N	FLO
0.706000	28.10	9.3	46	17.9	AV	N	FLO
0.806000	27.90	9.3	46	18.1	AV	N	FLO
0.958000	26.20	9.3	46	19.8	AV	N	FLO

RESULT: PASS

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



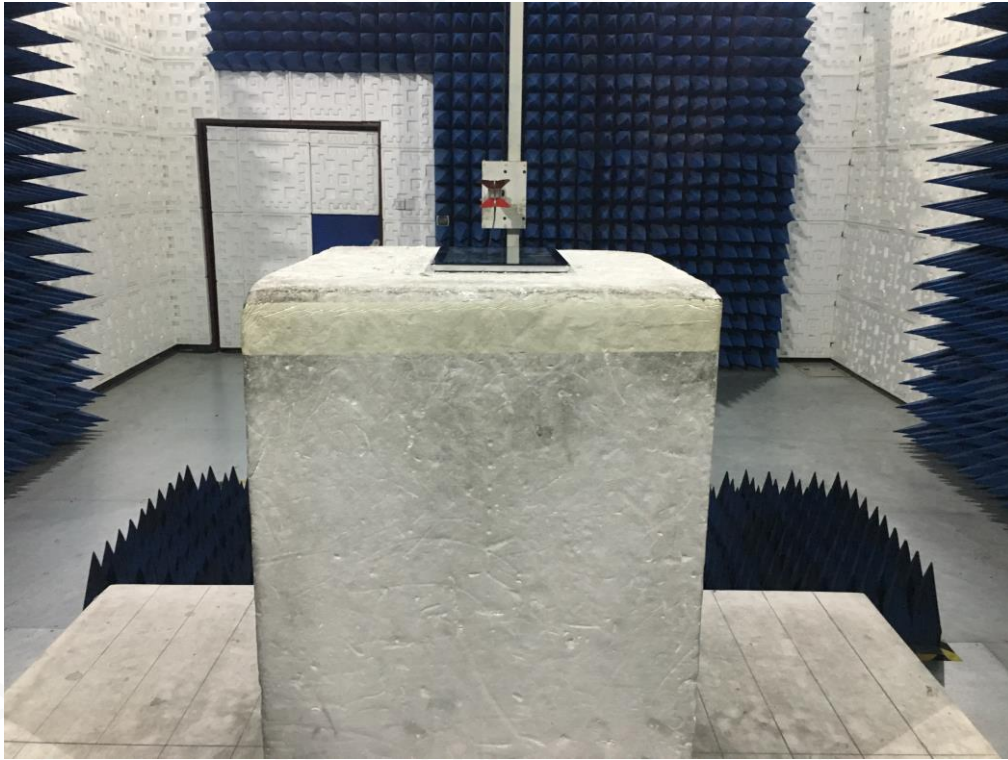
FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



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FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



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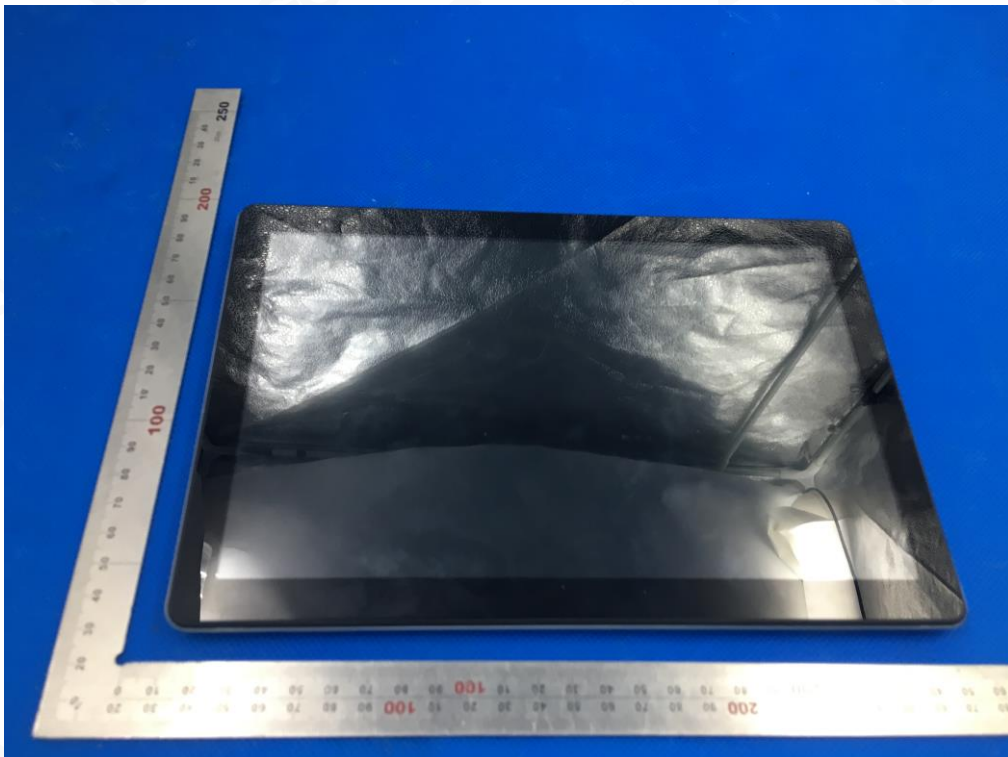
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APPENDIX B: PHOTOGRAPHS OF EUT ALL VIEW OF EUT



TOP VIEW OF EUT

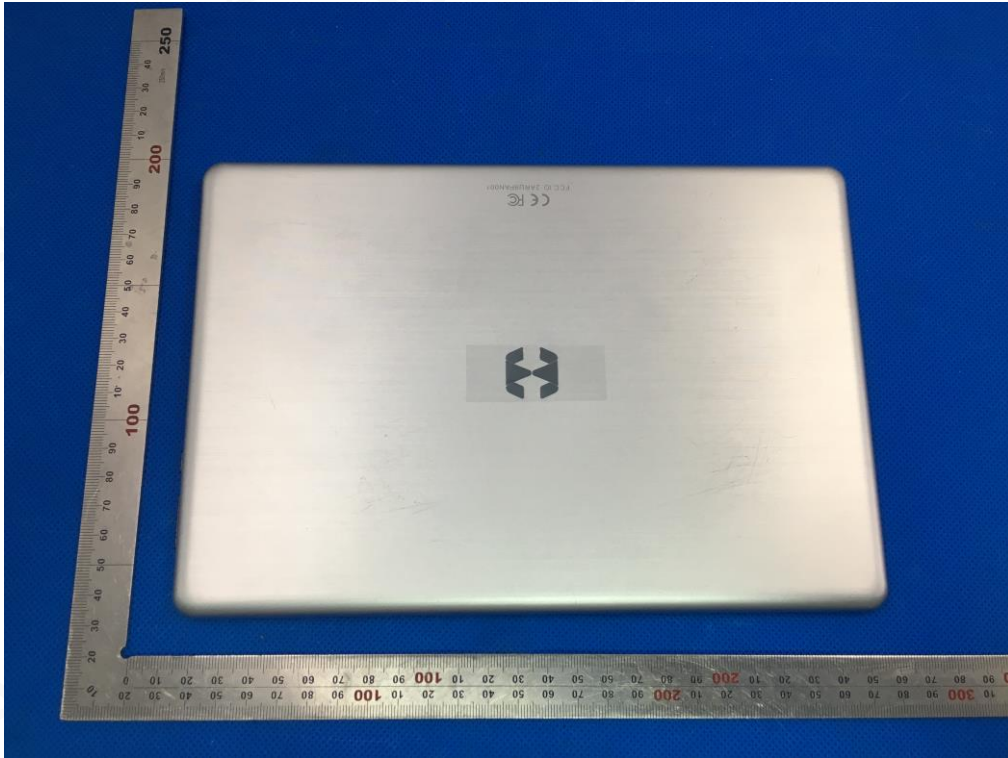


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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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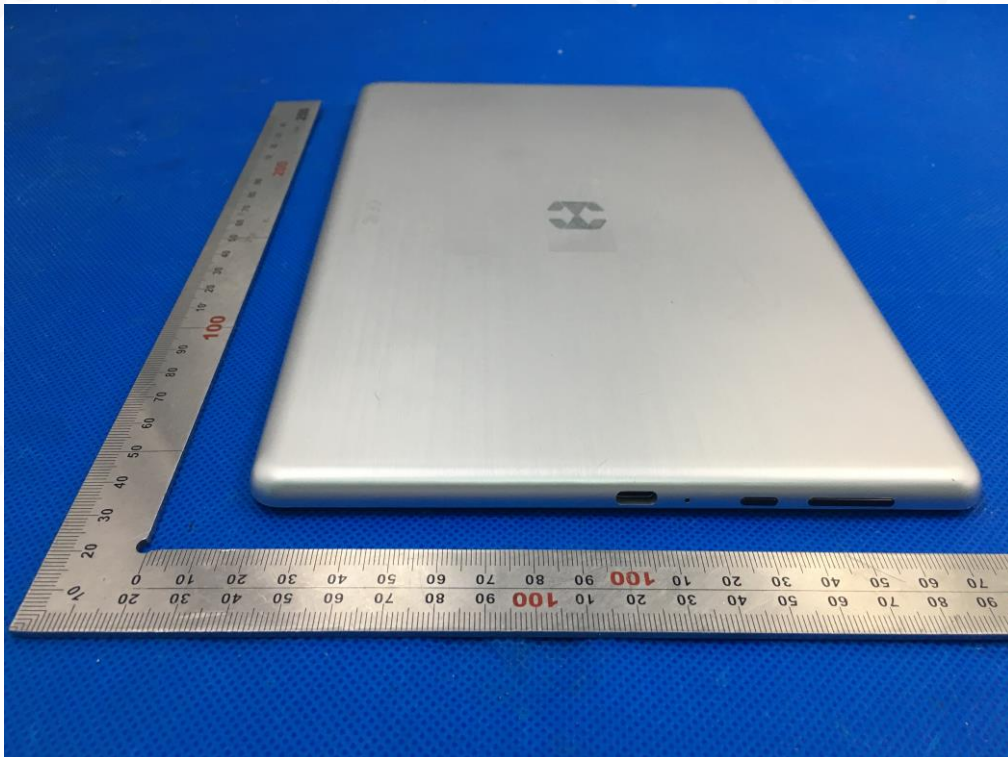
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BACK VIEW OF EUT



LEFT VIEW OF EUT



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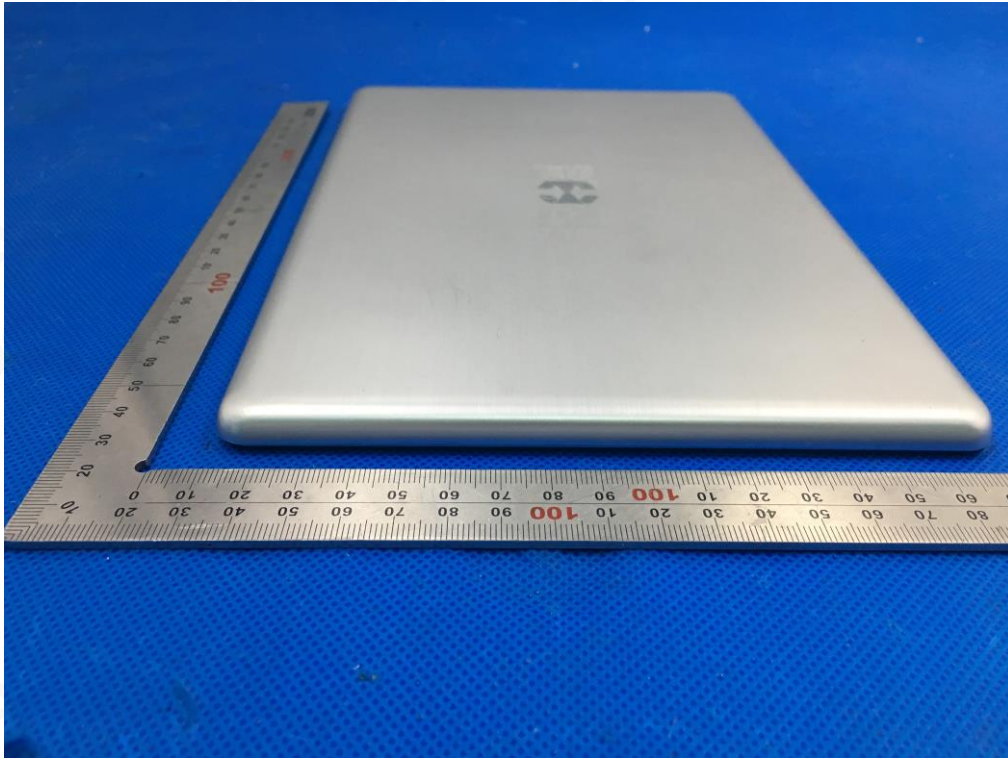
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RIGHT VIEW OF EUT



OPEN VIEW OF EUT

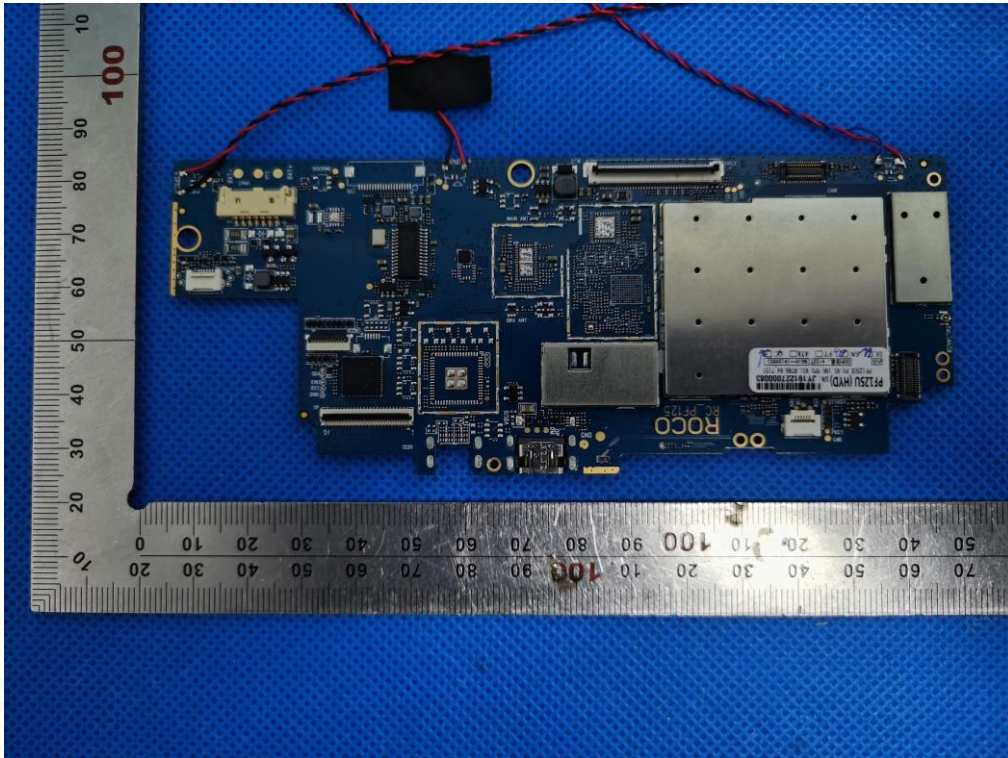


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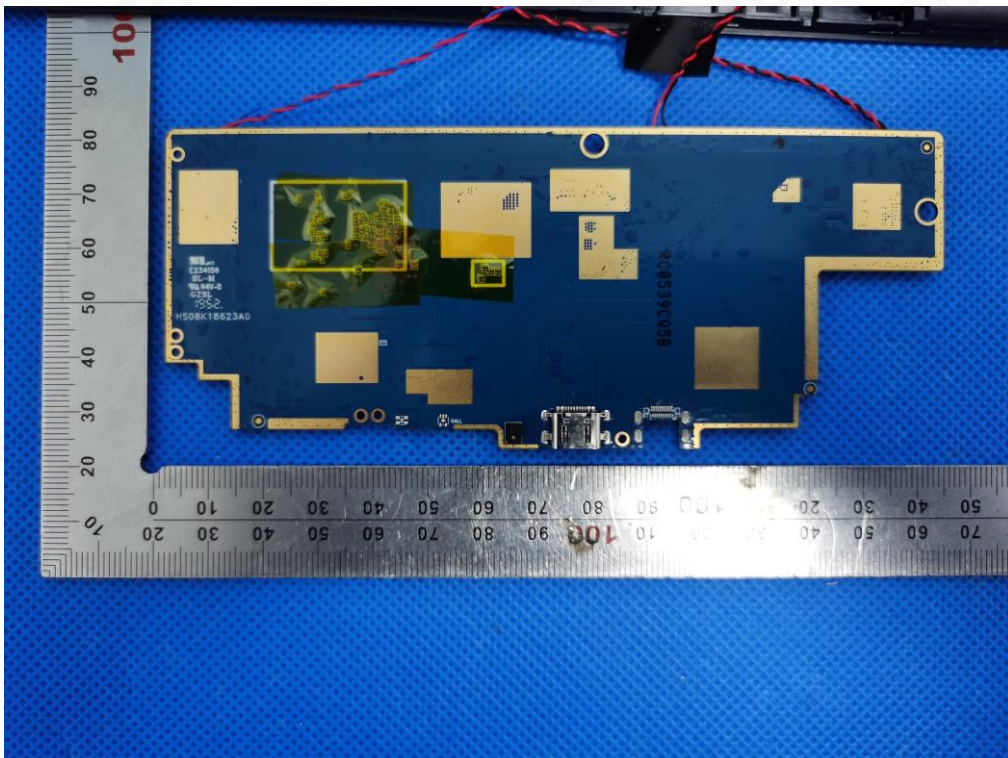
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INTERNAL VIEW-1 OF EUT



INTERNAL VIEW-2 OF EUT

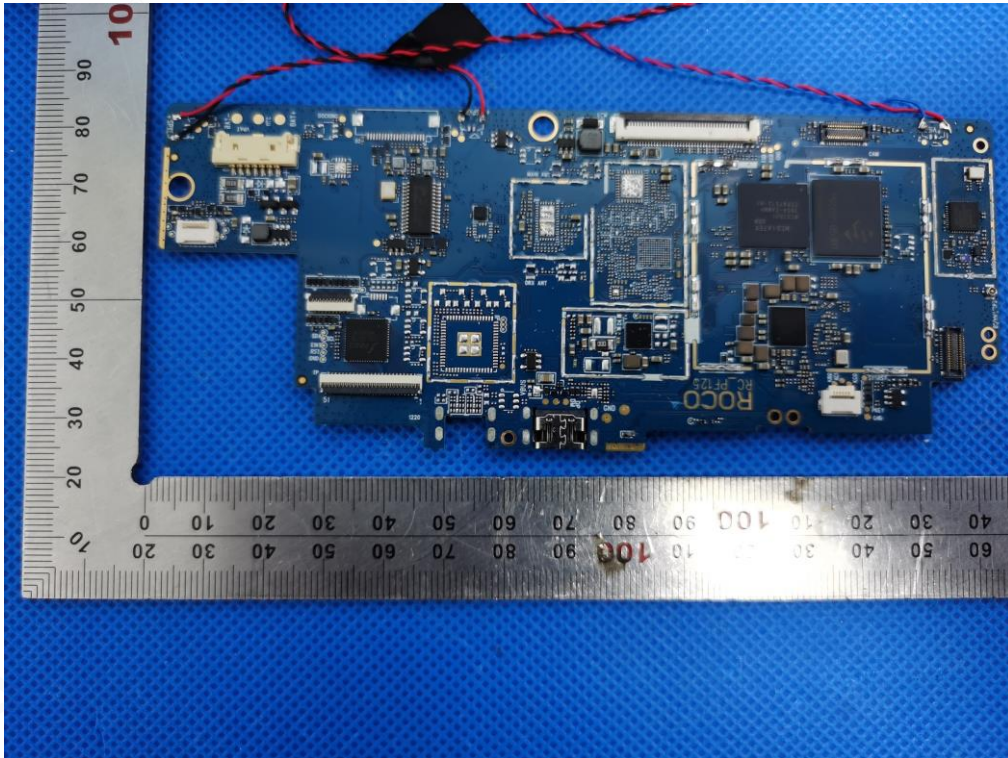


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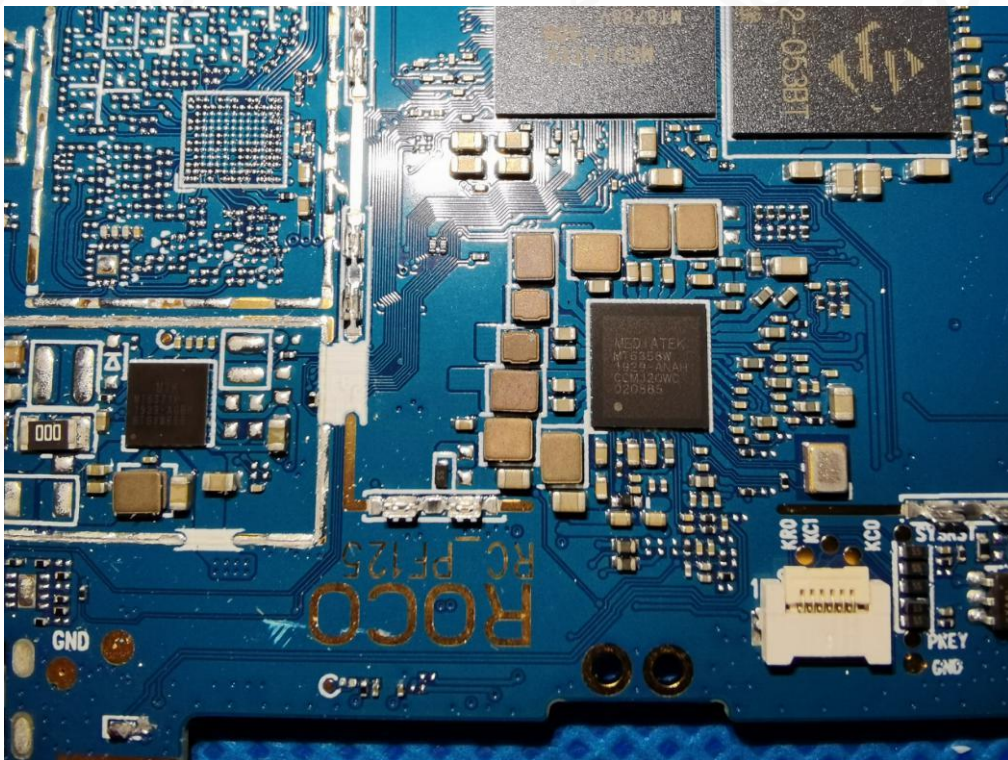
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INTERNAL VIEW-3 OF EUT



INTERNAL VIEW-4 OF EUT



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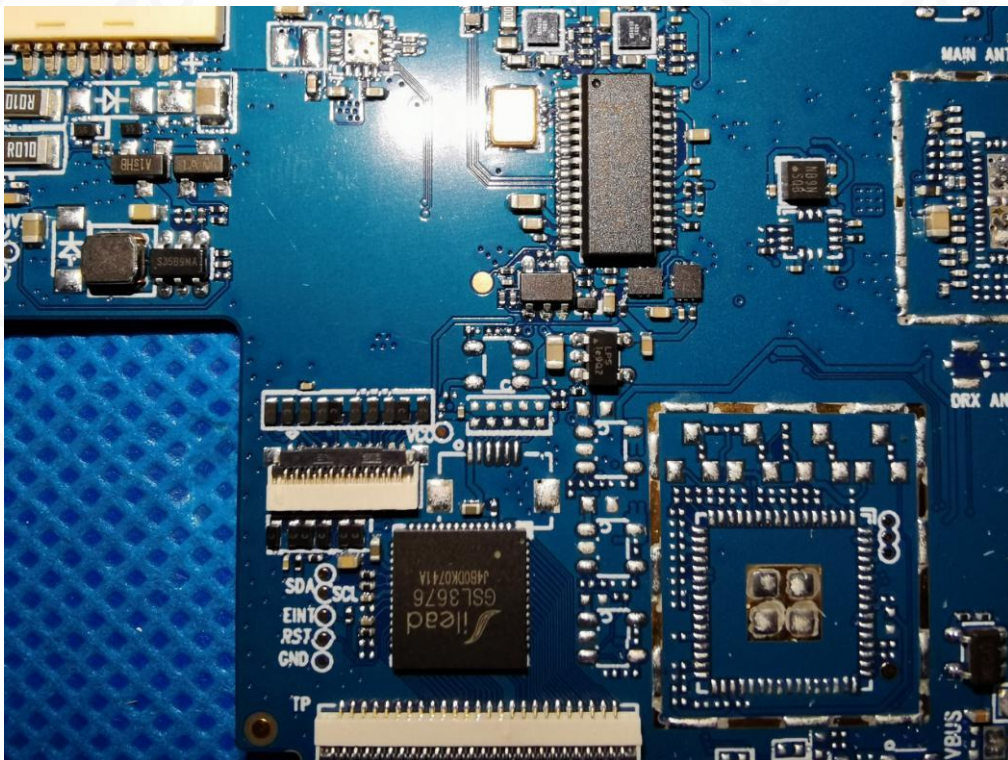
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INTERNAL VIEW-5 OF EUT



INTERNAL VIEW-6 OF EUT



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ADAPTER



----END OF REPORT----

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
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.
4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
9. 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.
10. 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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