



Report No: TW2009352E

File reference No: 2020-09-29

Applicant: Technovare Systems, Inc.

Product: Embedded Computer

Model No: OPS-Ti7W, OPS-Ti7W-PS, OPS-TI7W, OPS-TI7W-PS

Trademark: Technovare TNET-PC

Test Standards: FCC Part 15 Subpart B

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 regulations for the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: September 29, 2020

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES

Room 512-519, 5/F., East Tower, Building 4, Anhua Industrial Zone, Futian District,
Shenzhen, Guangdong, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Room 512-519,5/F., East Tower,Building 4, Anhua Industrial Zone,
Futian District,Shenzhen, Guangdong China
Telephone: (755) 83448688
Fax: (755) 83442996
Site on File with the Federal Communications Commission – United States
Registration Number: 744189
For 3m anechoic chamber
Site Listed with Industry Canada of Ottawa, Canada
Registration Number: IC: 5205A
For 3m anechoic chamber

1.2 Applicant Details

Applicant: Technovare Systems, Inc.
Address: 3000 W. Macarthur Blvd. , Suite#330, Santa Ana, CA 92704, USA.
Telephone: 1-714-966-9099
Fax: 1-714-966-9199

1.3 Description of EUT

Product: Embedded Computer
Manufacturer: Shenzhen JEC Technology Co., Ltd.
Address: Room 1002, Beike Innovation Building, 27 Nanhai Blvd, Nanshan
District,Shenzhen, Guangdong Province. China
Brand Name: Technovare TNET-PC
Model Number: OPS-Ti7W
Additional Model Number: OPS-Ti7W-PS, OPS-TI7W, OPS-TI7W-PS
Rating: Input: 16VDC, 60W

1.4 Submitted Sample: 1 Samples

1.5 Test Duration: 2020-09-24 to 2020-09-29

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB
Radiated Emissions below 30MHz Uncertainty =4.3dB
Radiated Emissions 30MHz-1GHz Uncertainty =4.7dB

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Radiated Emissions above 1GHz Uncertainty =6.0dB

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

The sample tested by

A handwritten signature in black ink that reads 'Terry Tang'.

Print Name: Terry Tang

2.0 List of Measurement Equipment

2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESH3	860905/006	RS	2020.06.23	1 Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2020.06.23	1 Year
PULSE LIMITER	ESH3-Z2	100281	RS	2020.06.23	1 Year
LISN	ESH3-Z5	100294	RS	2020.06.23	1 Year
LISN	ESH3-Z5	100253	RS	2020.06.23	1 Year
LISN	NNB42	00012	SCHAFFNER	2020.01.07	1 Year

2.2 Radiated electromagnetic disturbance test

Name	Model No	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESPI 3	100379	RS	2020.06.23	1 Year
Spectrum Analyzer	E4407B	MY50441392	HP/Agilent	2020.06.23	1 Year
Amplifier	BBV9743	#218	HP/Agilent	2020.06.23	1 Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2018.07.04	3 Year
Horn Antenna	BBHA 9120D	9120D-631	RS	2018.07.09	3 Year
Amplifier	8449B	3008A00160	HP/Agilent	2020.06.23	1 Year

2.3 Auxiliary Equipment

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
LCD Monitor	V463©	--	NEC	--	--
LED Monitor	S2340Lc	--	DELL	--	--
Keyboard	L100	--	DELL	--	--
Mouse	MOEUAOA	--	ThinkPad	--	--

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2.4 Automation Test Software
For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

3.0 Technical Details

3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

FCC Part 15 Subpart B

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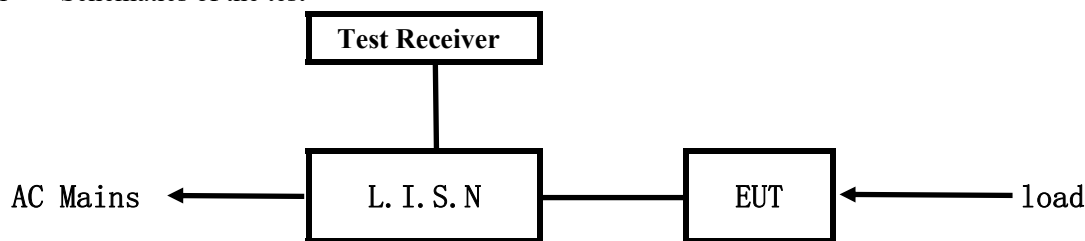
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4.0 Conducted Power line Test

4.1 Schematics of the test



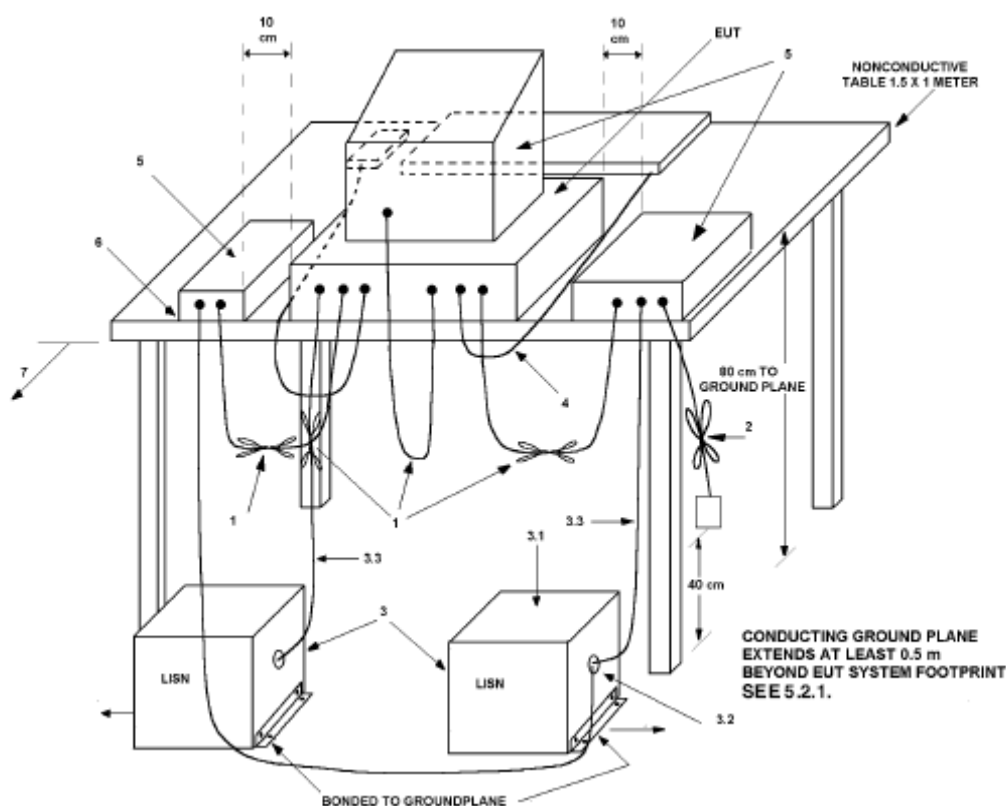
EUT: Equipment Under Test

4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4-2014. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Actual Working Voltage and Frequency: 120V~, 60Hz

Block diagram of Test setup



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4.3 Power line conducted Emission Limit

Frequency(MHz)	Class A Limits dB(μV)		Class B Limits dB(μV)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*
0.50 ~ 5.00	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

- Notes:
1. *decreasing linearly with logarithm of frequency.
 2. The tighter limit shall apply at the transition frequencies

4.4 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

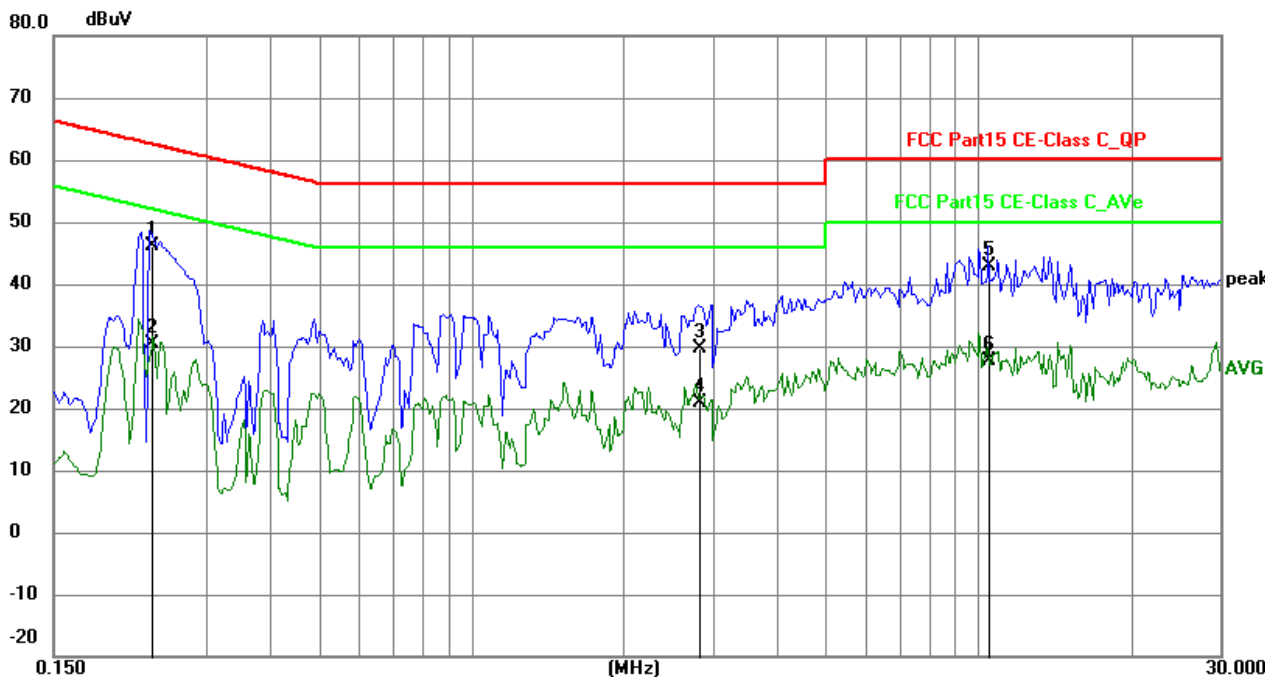
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Running EMC test Program

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2329	36.42	9.75	46.17	62.35	-16.18	QP	P
2	0.2329	20.71	9.75	30.46	52.35	-21.89	AVG	P
3	2.8091	19.80	9.84	29.64	56.00	-26.36	QP	P
4	2.8091	10.94	9.84	20.78	46.00	-25.22	AVG	P
5	10.5075	32.74	10.18	42.92	60.00	-17.08	QP	P
6	10.5075	17.38	10.18	27.56	50.00	-22.44	AVG	P

Note: for other frequencies not marked, the emission level less than the limit for more than 20dB.

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

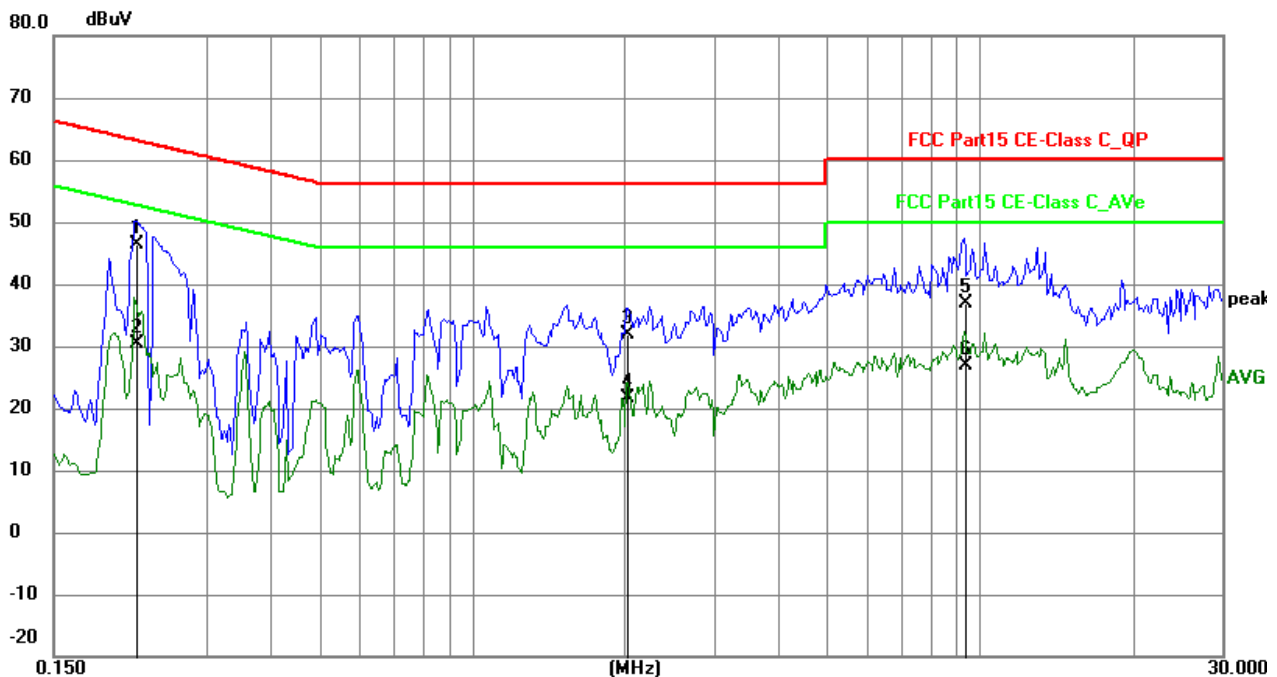
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Running EMC test Program

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2185	36.59	9.75	46.34	62.88	-16.54	QP	P
2	0.2185	20.72	9.75	30.47	52.88	-22.41	AVG	P
3	2.0225	22.01	9.80	31.81	56.00	-24.19	QP	P
4	2.0225	11.75	9.80	21.55	46.00	-24.45	AVG	P
5	9.3297	26.77	10.13	36.90	60.00	-23.10	QP	P
6	9.3297	16.76	10.13	26.89	50.00	-23.11	AVG	P

Note: for other frequencies not marked, the emission level less than the limit for more than 10dB.

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C: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

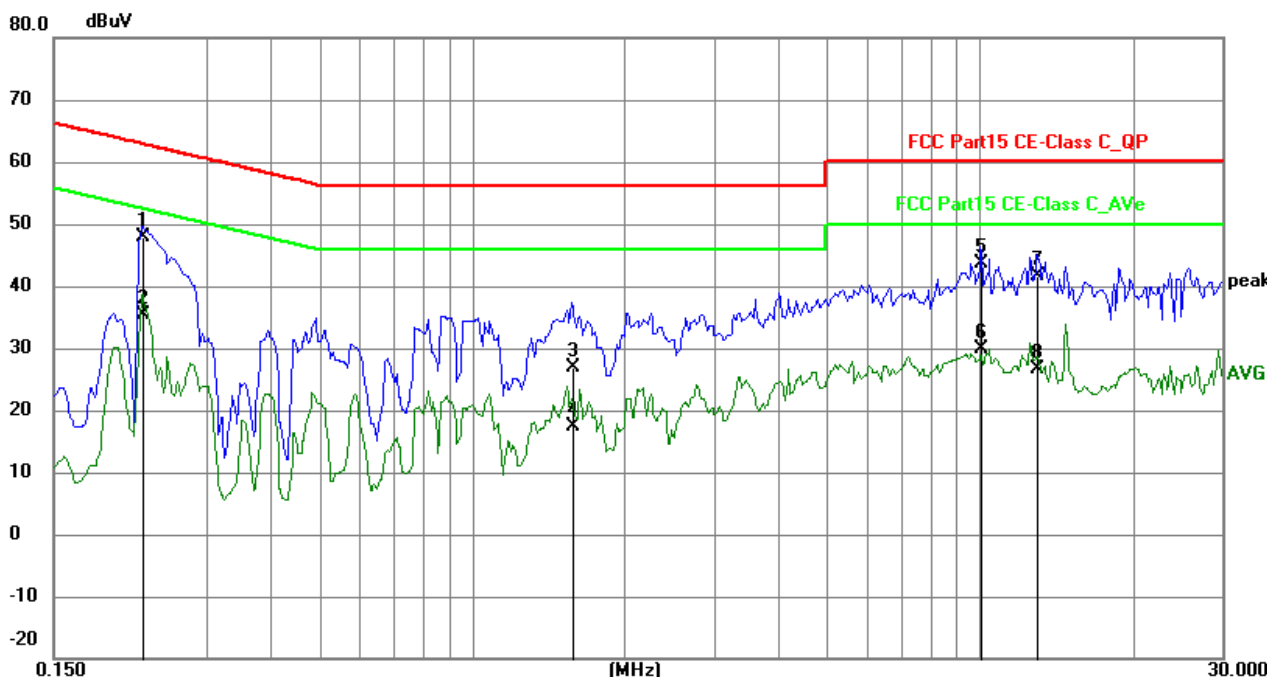
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Ping Network (According to RJ45 Port)

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2244	38.22	9.75	47.97	62.65	-14.68	QP	P
2	0.2244	25.59	9.75	35.34	52.65	-17.31	AVG	P
3	1.5766	17.03	9.80	26.83	56.00	-29.17	QP	P
4	1.5766	7.47	9.80	17.27	46.00	-28.73	AVG	P
5	10.0590	33.35	10.16	43.51	60.00	-16.49	QP	P
6	10.0590	19.60	10.16	29.76	50.00	-20.24	AVG	P
7	12.9684	31.43	10.29	41.72	60.00	-18.28	QP	P
8	12.9684	16.34	10.29	26.63	50.00	-23.37	AVG	P

Note: for other frequencies not marked, the emission level less than the limit for more than 10dB.

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D: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

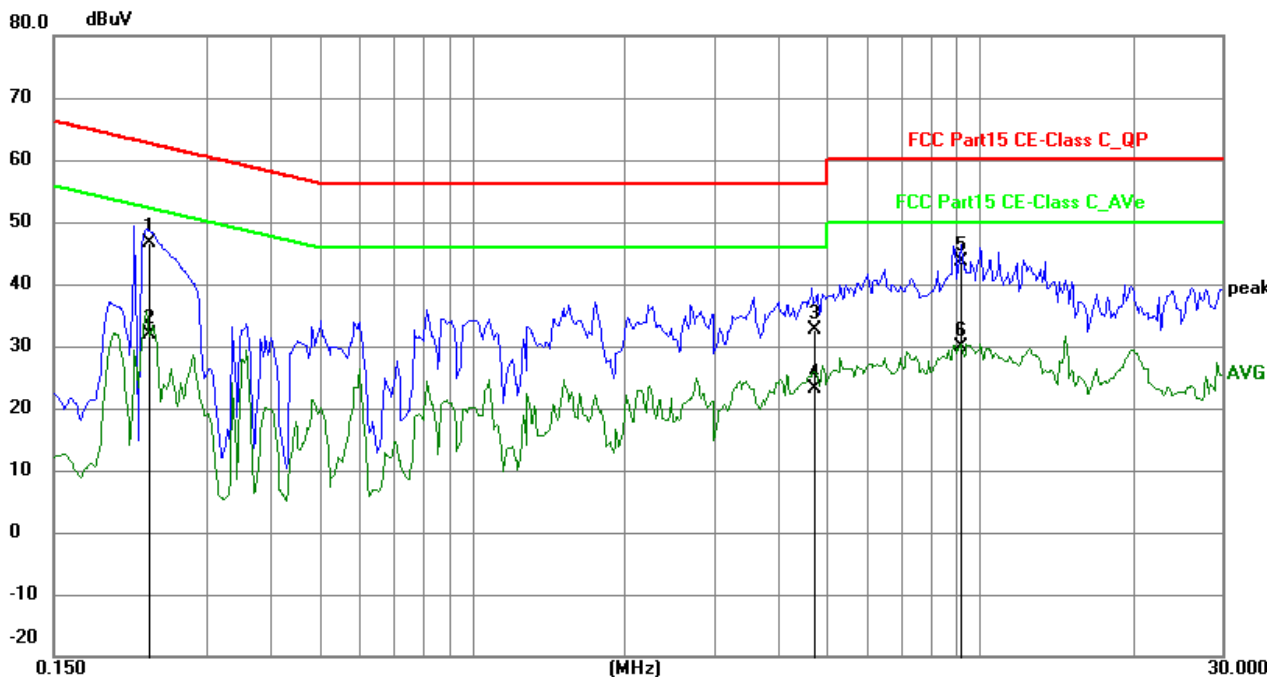
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Ping Network (According to RJ45 Port)

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2304	36.90	9.75	46.65	62.44	-15.79	QP	P
2	0.2304	22.08	9.75	31.83	52.44	-20.61	AVG	P
3	4.7213	22.78	9.92	32.70	56.00	-23.30	QP	P
4	4.7213	13.10	9.92	23.02	46.00	-22.98	AVG	P
5	9.1659	33.54	10.12	43.66	60.00	-16.34	QP	P
6	9.1659	19.79	10.12	29.91	50.00	-20.09	AVG	P

Note: for other frequencies not marked, the emission level less than the limit for more than 10dB.

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E: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

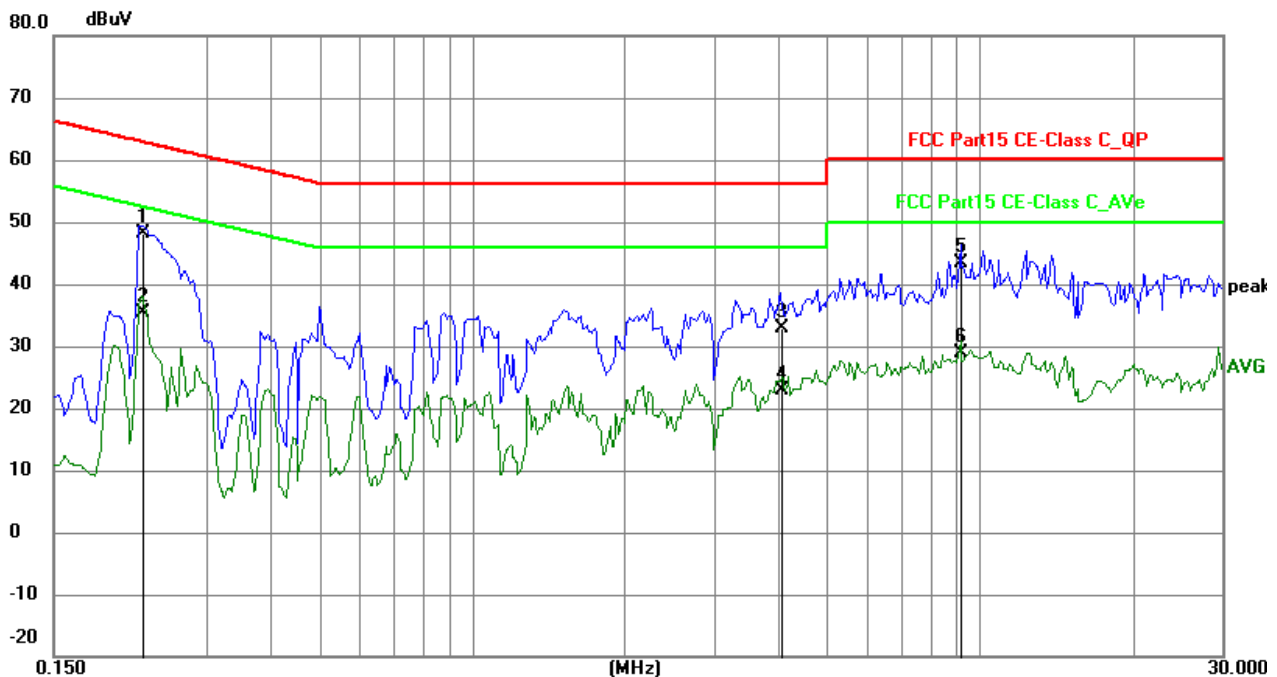
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Play USB

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2241	38.30	9.75	48.05	62.67	-14.62	QP	P
2	0.2241	25.59	9.75	35.34	52.67	-17.33	AVG	P
3	4.0529	23.11	9.89	33.00	56.00	-23.00	QP	P
4	4.0529	12.90	9.89	22.79	46.00	-23.21	AVG	P
5	9.1659	33.16	10.12	43.28	60.00	-16.72	QP	P
6	9.1659	18.82	10.12	28.94	50.00	-21.06	AVG	P

Note: for other frequencies not marked, the emission level less than the limit for more than 10dB.

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F: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

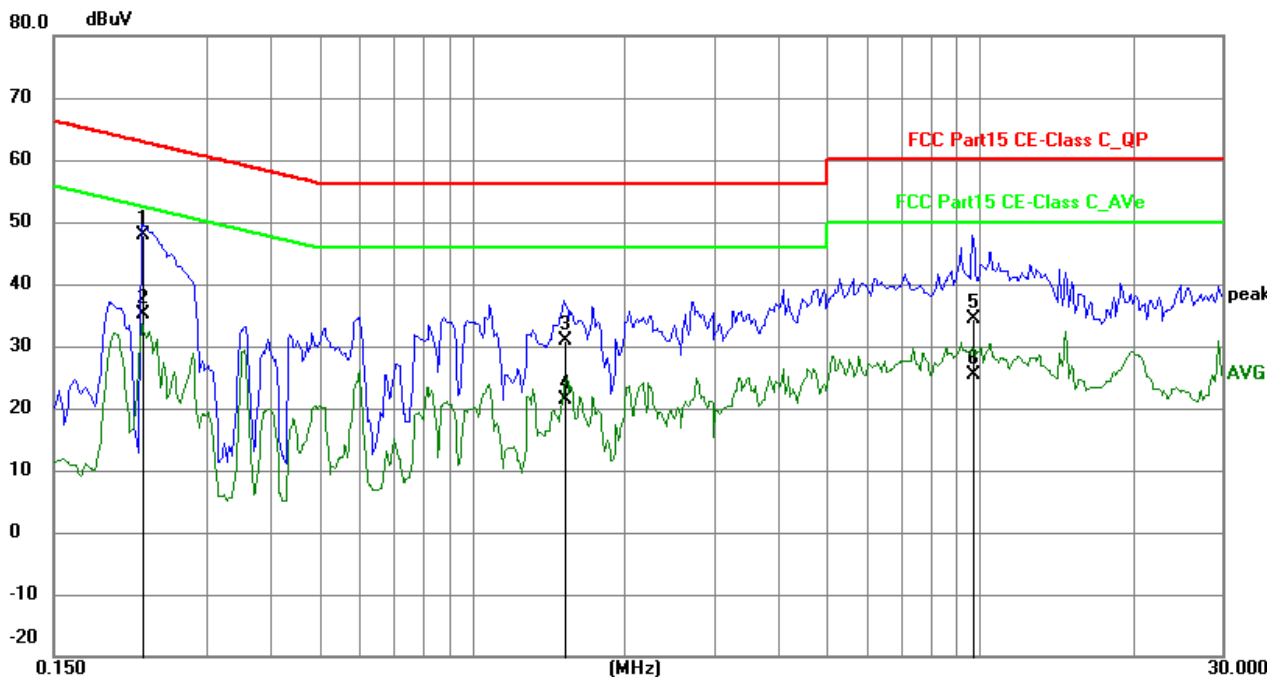
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Play USB

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2244	38.18	9.75	47.93	62.65	-14.72	QP	P
2	0.2244	25.47	9.75	35.22	52.65	-17.43	AVG	P
3	1.5193	21.06	9.80	30.86	56.00	-25.14	QP	P
4	1.5193	11.48	9.80	21.28	46.00	-24.72	AVG	P
5	9.7051	24.13	10.15	34.28	60.00	-25.72	QP	P
6	9.7051	15.32	10.15	25.47	50.00	-24.53	AVG	P

Note: for other frequencies not marked, the emission level less than the limit for more than 10dB.

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G: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

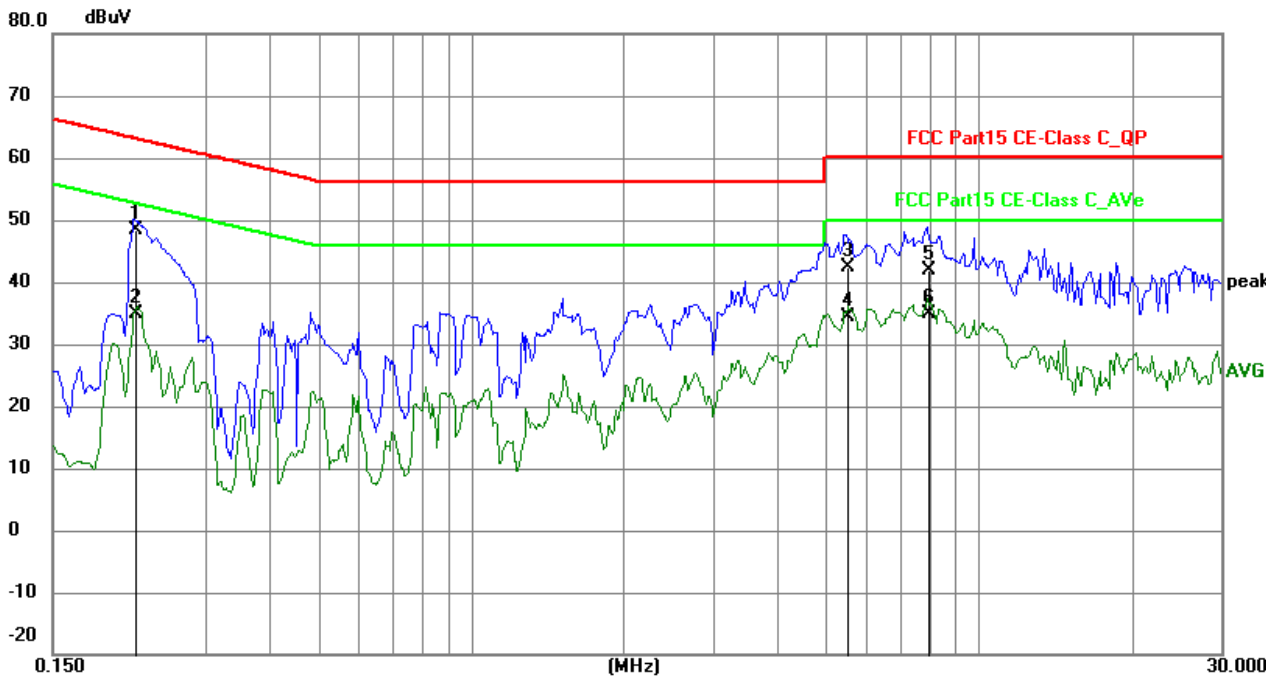
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by WIFI

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2185	38.52	9.75	48.27	62.88	-14.61	QP	P
2	0.2185	25.07	9.75	34.82	52.88	-18.06	AVG	P
3	5.5054	32.48	9.95	42.43	60.00	-17.57	QP	P
4	5.5054	24.33	9.95	34.28	50.00	-15.72	AVG	P
5	7.9353	31.88	10.06	41.94	60.00	-18.06	QP	P
6	7.9353	24.76	10.06	34.82	50.00	-15.18	AVG	P

Note: for other frequencies not marked, the emission level less than the limit for more than 10dB.

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H: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

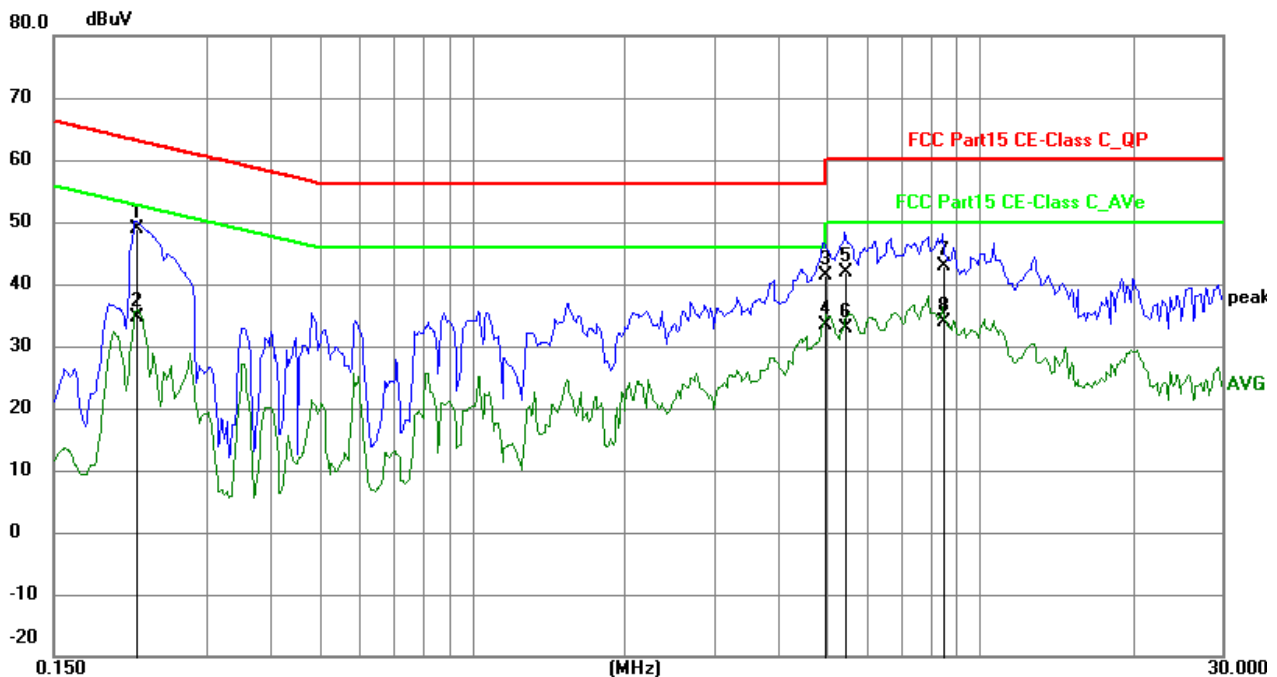
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by WIFI

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.2174	39.19	9.75	48.94	62.92	-13.98	QP	P
2	0.2174	24.82	9.75	34.57	52.92	-18.35	AVG	P
3	4.9519	31.43	9.93	41.36	56.00	-14.64	QP	P
4	4.9519	23.36	9.93	33.29	46.00	-12.71	AVG	P
5	5.4258	31.94	9.95	41.89	60.00	-18.11	QP	P
6	5.4258	22.82	9.95	32.77	50.00	-17.23	AVG	P
7	8.4639	32.74	10.08	42.82	60.00	-17.18	QP	P
8	8.4639	23.90	10.08	33.98	50.00	-16.02	AVG	P

Note: for other frequencies not marked, the emission level less than the limit for more than 10dB.

The report refers only to the sample tested and does not apply to the bulk.

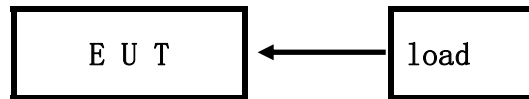
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5.0 Radiated Disturbance Test

5.1 Schematics of the test

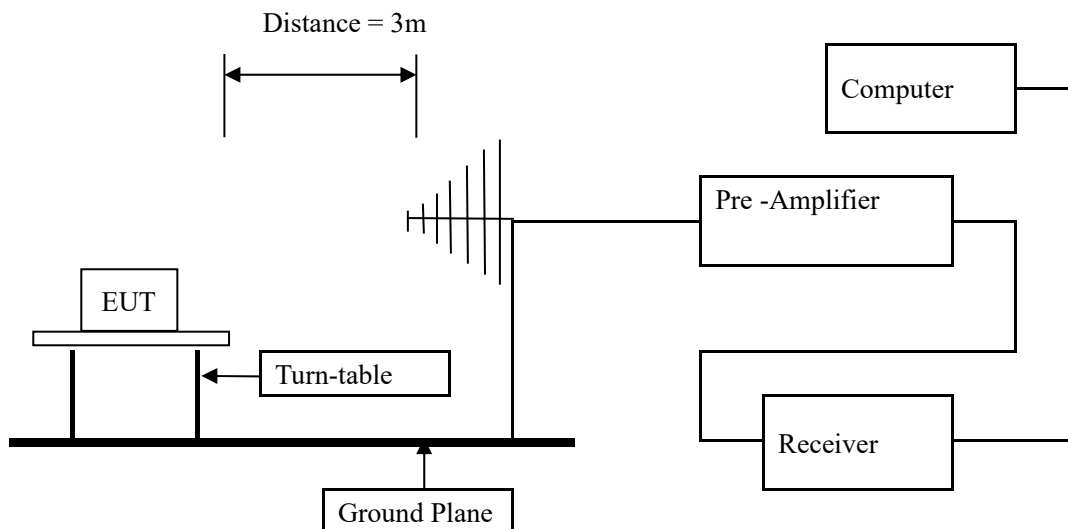


5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2014; The frequency spectrum from 30MHz to 40GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

Actual Working Voltage and Frequency: 120V~, 60Hz

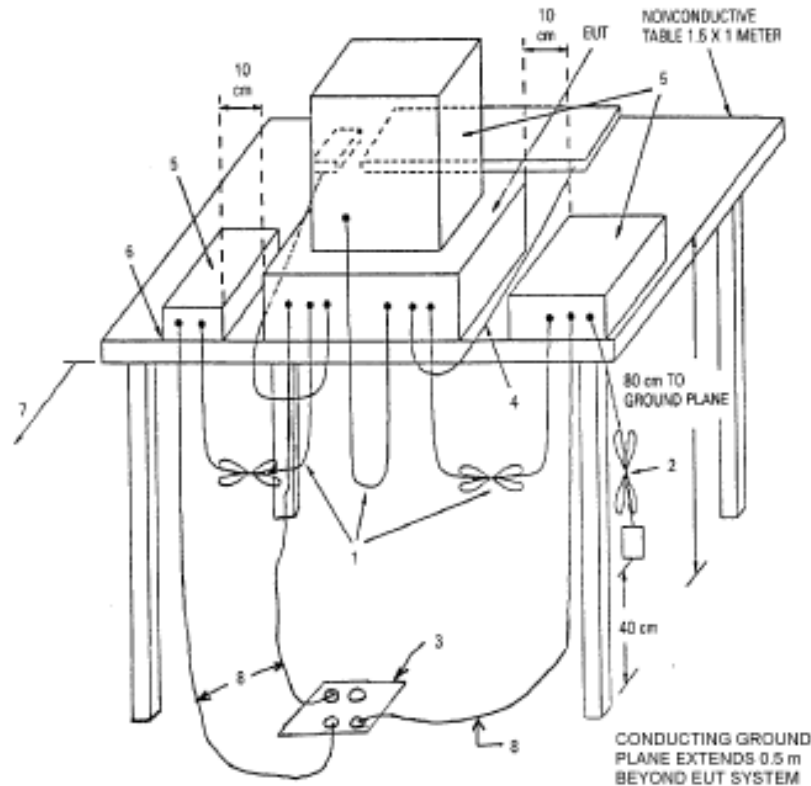
Block diagram of Test setup



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5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: 1. The lower limit shall apply at the transition frequencies

2. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

5.4 Test result

The frequency spectrum from 30MHz to 40GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK. Measurements were made at 3 meters.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/ In Vertical (30MHz----1000MHz)

EUT set Condition: **Running EMC test Program**

Results: **Pass**

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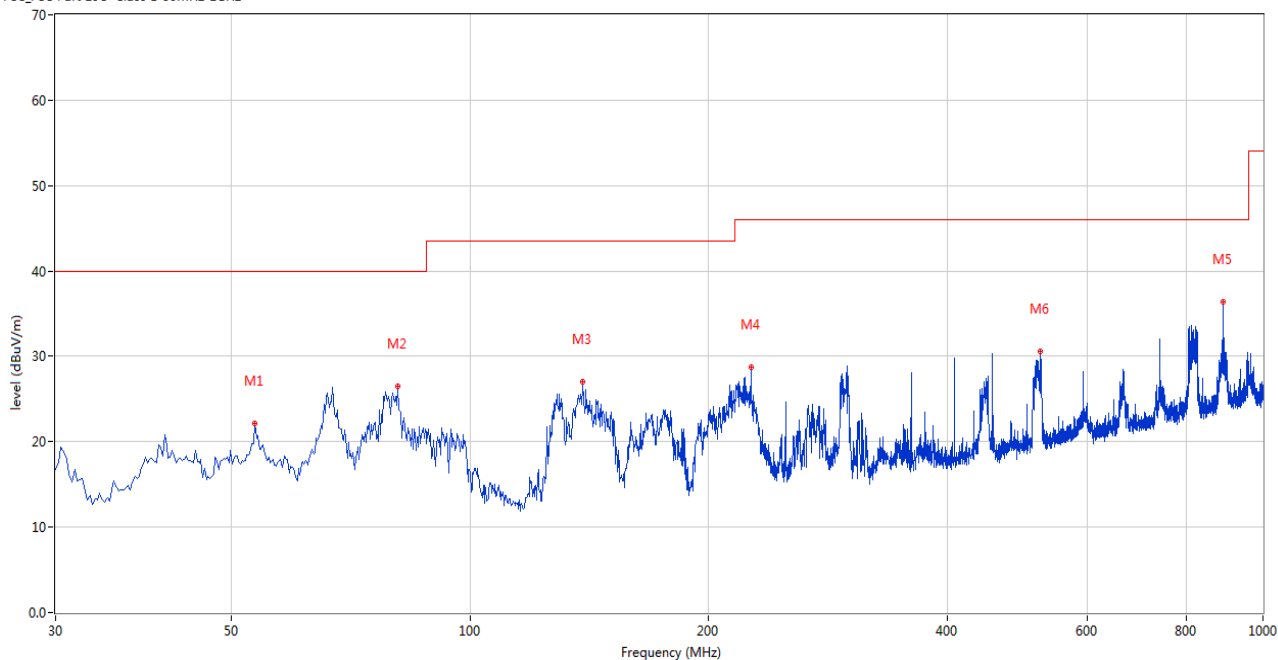
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Test Figure:

H

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	53.517	28.11	-11.52	40.0	-11.89	Peak	360.00	200	Horizontal	Pass
2	81.155	28.49	-17.26	40.0	-11.51	Peak	0.00	200	Horizontal	Pass
3	138.855	27.07	-17.23	40.0	-12.93	Peak	148.00	200	Horizontal	Pass
4	225.891	30.70	-12.85	40.0	-9.30	Peak	237.00	100	Horizontal	Pass
5	890.175	41.92	-1.89	47.0	-5.08	Peak	203.00	100	Horizontal	Pass
6	523.849	30.60	-6.62	47.0	-16.40	Peak	121.00	200	Horizontal	Pass

Note: for other frequencies not marked, the emission level less than the limit for more than 20dB.

The report refers only to the sample tested and does not apply to the bulk.

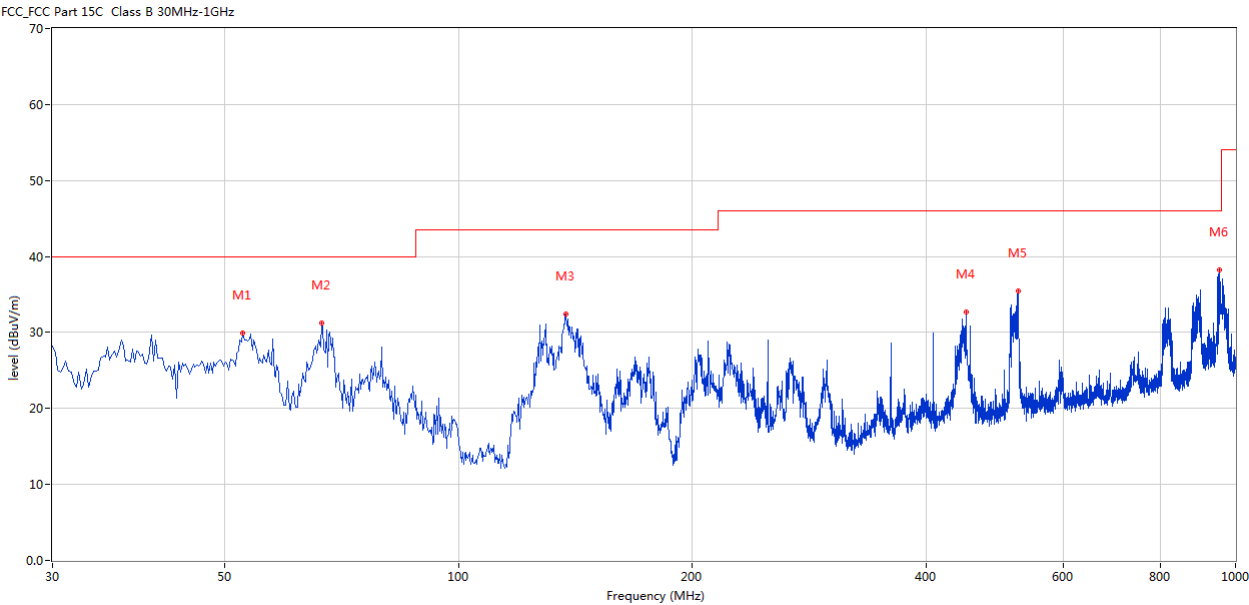
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Test Figure:

V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	52.789	31.95	-11.48	40.0	-8.05	Peak	336.00	100	Vertical	Pass
2	66.608	33.26	-14.16	40.0	-6.74	Peak	282.00	100	Vertical	Pass
3	137.401	32.40	-17.23	43.5	-11.10	Peak	324.00	100	Vertical	Pass
4	449.905	36.75	-8.01	47.0	-10.25	Peak	0.00	200	Vertical	Pass
5	525.304	35.45	-6.54	47.0	-11.55	Peak	37.00	200	Vertical	Pass
6	954.421	38.21	-1.68	47.0	-8.79	Peak	180.00	100	Vertical	Pass

Note: for other frequencies not marked, the emission level less than the limit for more than 20dB.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/ In Vertical (30MHz----1000MHz)

EUT set Condition: Play USB

Results: Pass

The report refers only to the sample tested and does not apply to the bulk.

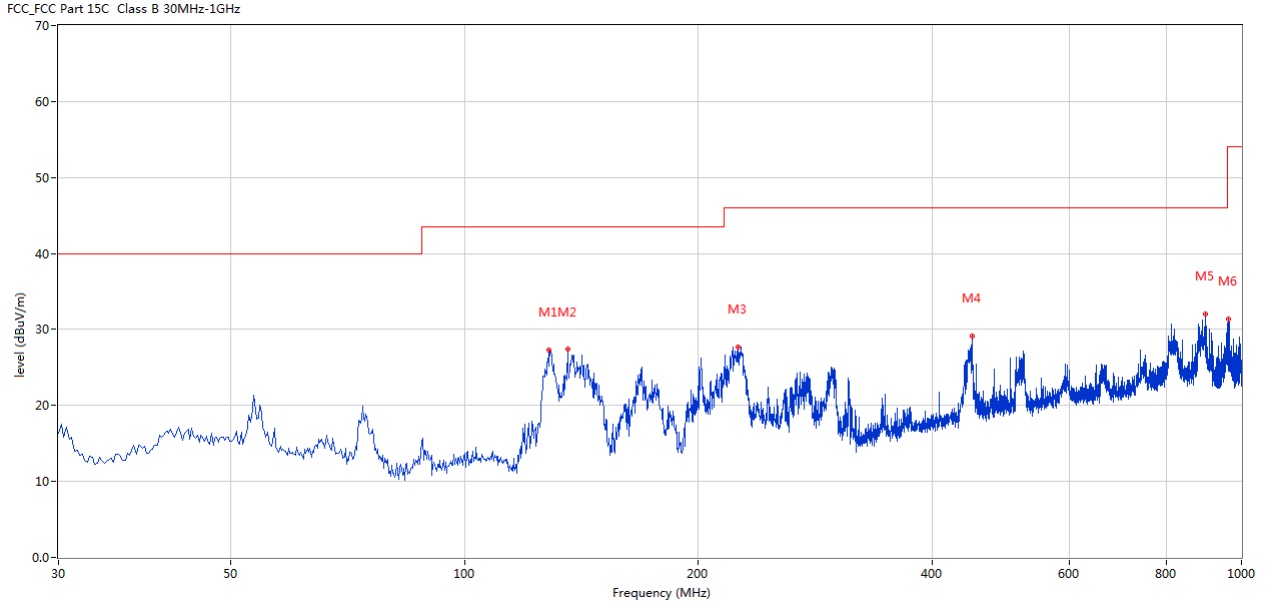
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Test Figure:

H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	128.430	27.30	-16.75	43.5	-16.20	Peak	191.00	200	Horizontal	Pass
2	135.704	27.36	-17.16	43.5	-16.14	Peak	161.00	200	Horizontal	Pass
3	225.164	27.63	-12.91	46.0	-18.37	Peak	97.00	100	Horizontal	Pass
4	450.147	29.09	-8.00	46.0	-16.91	Peak	91.00	100	Horizontal	Pass
5	898.903	32.06	-1.81	46.0	-13.94	Peak	252.00	200	Horizontal	Pass
6	961.695	29.18	-1.61	54.0	-24.82	Peak	246.00	200	Horizontal	Pass

Note: for other frequencies not marked, the emission level less than the limit for more than 20dB.

The report refers only to the sample tested and does not apply to the bulk.

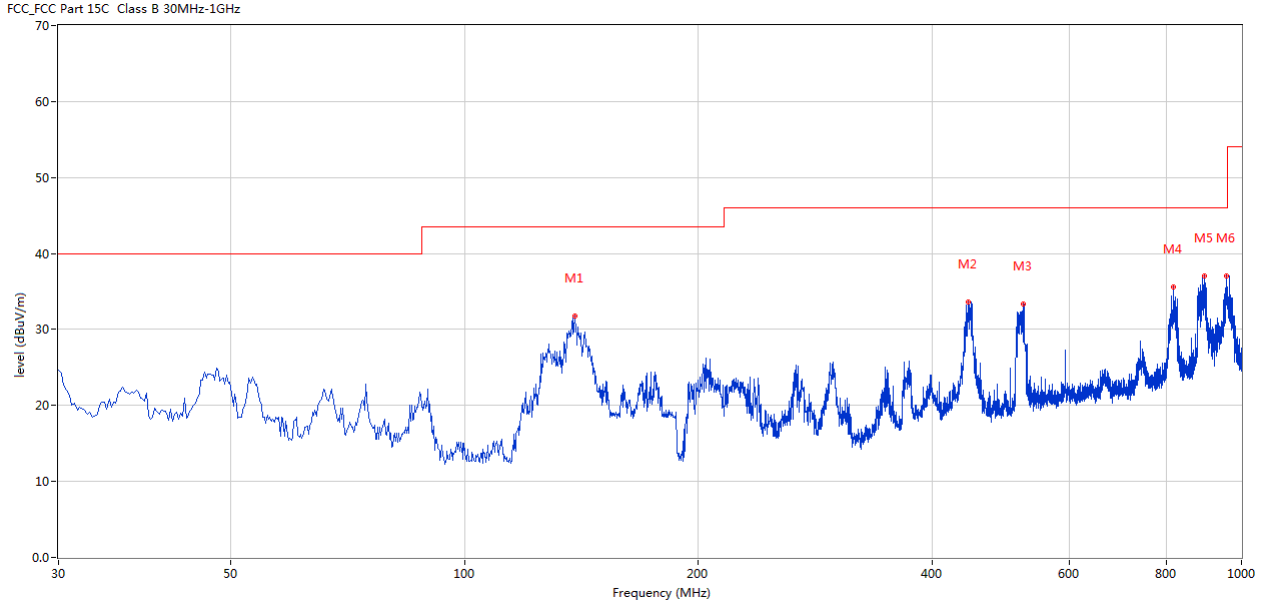
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Test Figure:

V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	138.855	31.78	-17.23	43.5	-11.72	Peak	0.00	200	Vertical	Pass
2	444.571	33.62	-7.97	46.0	-12.38	Peak	0.00	200	Vertical	Pass
3	523.122	35.38	-6.68	46.0	-10.62	Peak	14.00	200	Vertical	Pass
4	818.170	35.64	-2.84	46.0	-10.36	Peak	211.00	200	Vertical	Pass
5	897.206	36.99	-1.76	46.0	-9.01	Peak	183.00	100	Vertical	Pass
6	956.361	37.10	-1.72	46.0	-8.90	Peak	158.00	100	Vertical	Pass

Note: for other frequencies not marked, the emission level less than the limit for more than 20dB.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/ In Vertical (30MHz----1000MHz)

EUT set Condition: Ping Network (According to RJ45 Port)

Results: Pass

The report refers only to the sample tested and does not apply to the bulk.

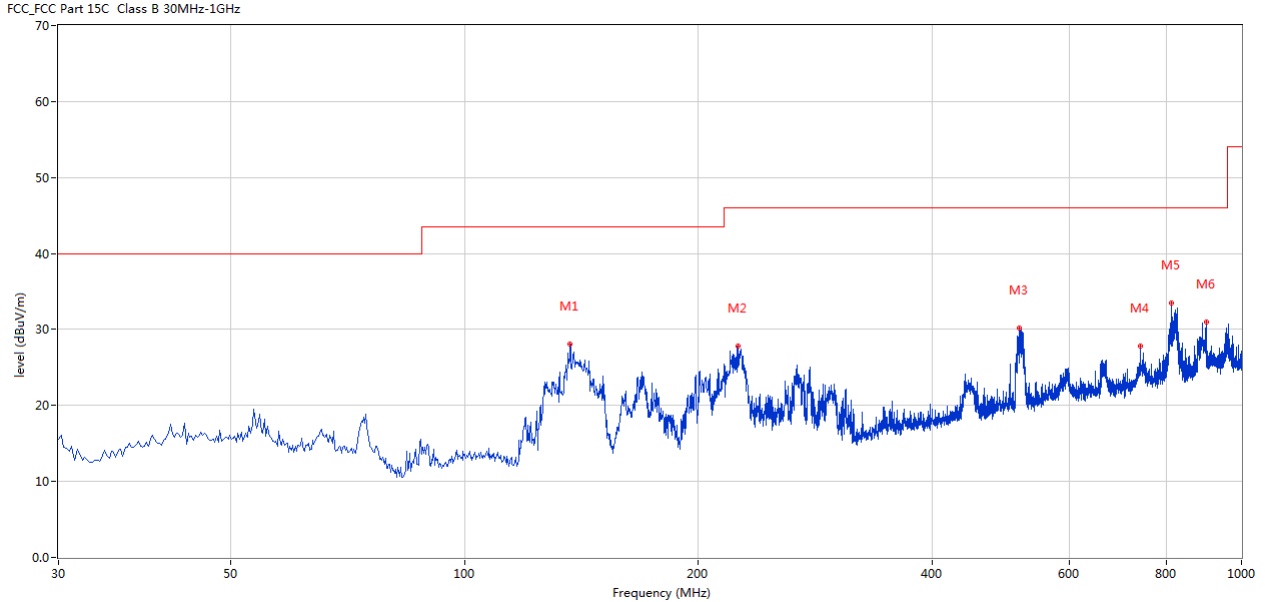
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Test Figure:

H



No	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	136.673	28.07	-17.17	40.0	-11.93	Peak	0.00	200	Horizontal	Pass
2	224.679	27.87	-12.96	40.0	-12.13	Peak	109.00	100	Horizontal	Pass
3	518.273	30.24	-6.71	46.0	-15.76	Peak	125.00	200	Horizontal	Pass
4	741.802	33.78	-3.43	47.0	-13.22	Peak	225.00	200	Horizontal	Pass
5	812.594	33.45	-2.94	46.0	-12.55	Peak	72.00	100	Horizontal	Pass
6	901.085	31.04	-1.93	46.0	-14.96	Peak	238.00	200	Horizontal	Pass

Note: for other frequencies not marked, the emission level less than the limit for more than 20dB.

The report refers only to the sample tested and does not apply to the bulk.

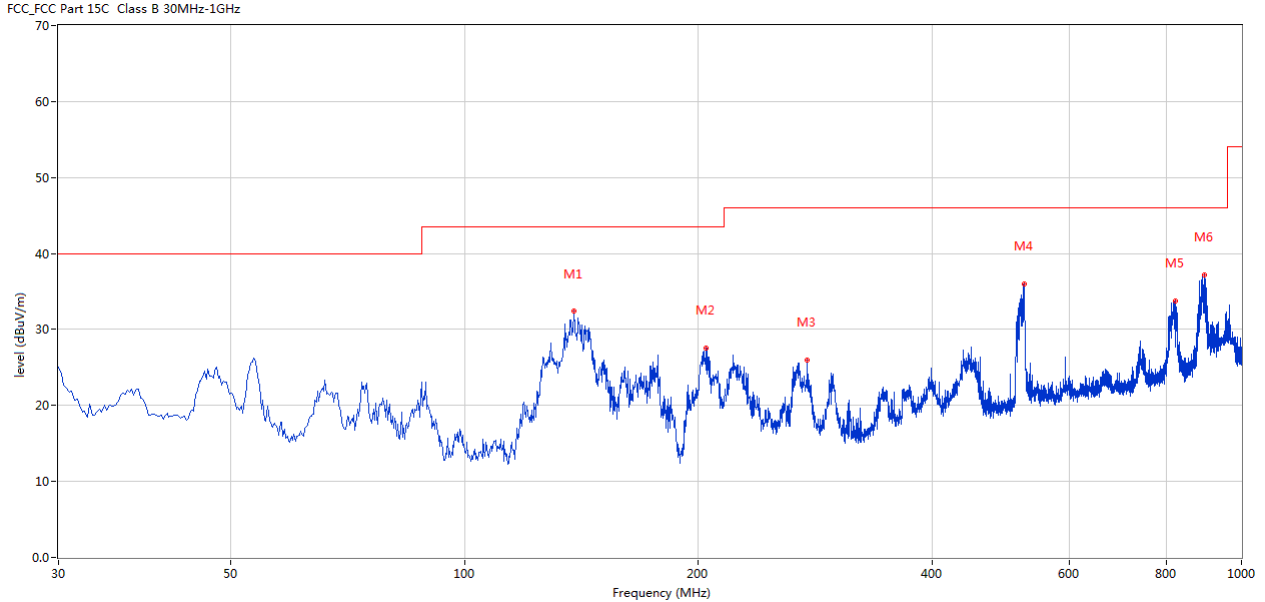
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Test Figure:

V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	138.370	32.39	-17.27	43.5	-11.11	Peak	338.00	100	Vertical	Pass
2	204.556	27.50	-13.55	43.5	-16.00	Peak	307.00	100	Vertical	Pass
3	275.834	25.92	-11.66	46.0	-20.08	Peak	0.00	200	Vertical	Pass
4	525.061	36.05	-6.55	46.0	-9.95	Peak	15.00	200	Vertical	Pass
5	822.777	33.77	-2.90	46.0	-12.23	Peak	208.00	200	Vertical	Pass
6	895.751	37.20	-1.78	46.0	-8.80	Peak	170.00	100	Vertical	Pass

Note: for other frequencies not marked, the emission level less than the limit for more than 20dB.

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Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal/ In Vertical (30MHz----1000MHz)

EUT set Condition: **Communication by WIFI**

Results: **Pass**

The report refers only to the sample tested and does not apply to the bulk.

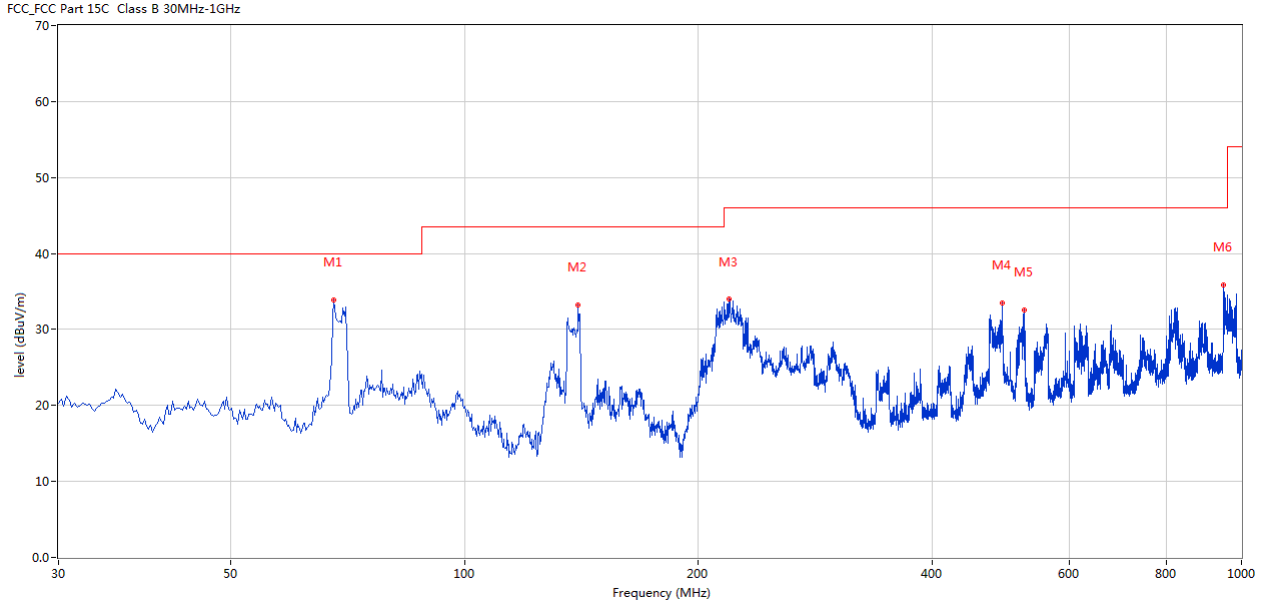
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Test Figure:

H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	67.821	33.90	-14.55	40.0	-6.10	Peak	359.00	200	Horizontal	Pass
2	140.067	33.23	-17.21	43.5	-10.27	Peak	43.00	200	Horizontal	Pass
3	219.103	31.97	-13.33	46.0	-14.03	Peak	122.00	100	Horizontal	Pass
4	492.574	33.42	-7.22	46.0	-12.58	Peak	69.00	200	Horizontal	Pass
5	525.789	32.57	-6.54	46.0	-13.43	Peak	126.00	200	Horizontal	Pass
6	948.118	35.89	-1.52	46.0	-10.11	Peak	237.00	100	Horizontal	Pass

Note: for other frequencies not marked, the emission level less than the limit for more than 20dB.

The report refers only to the sample tested and does not apply to the bulk.

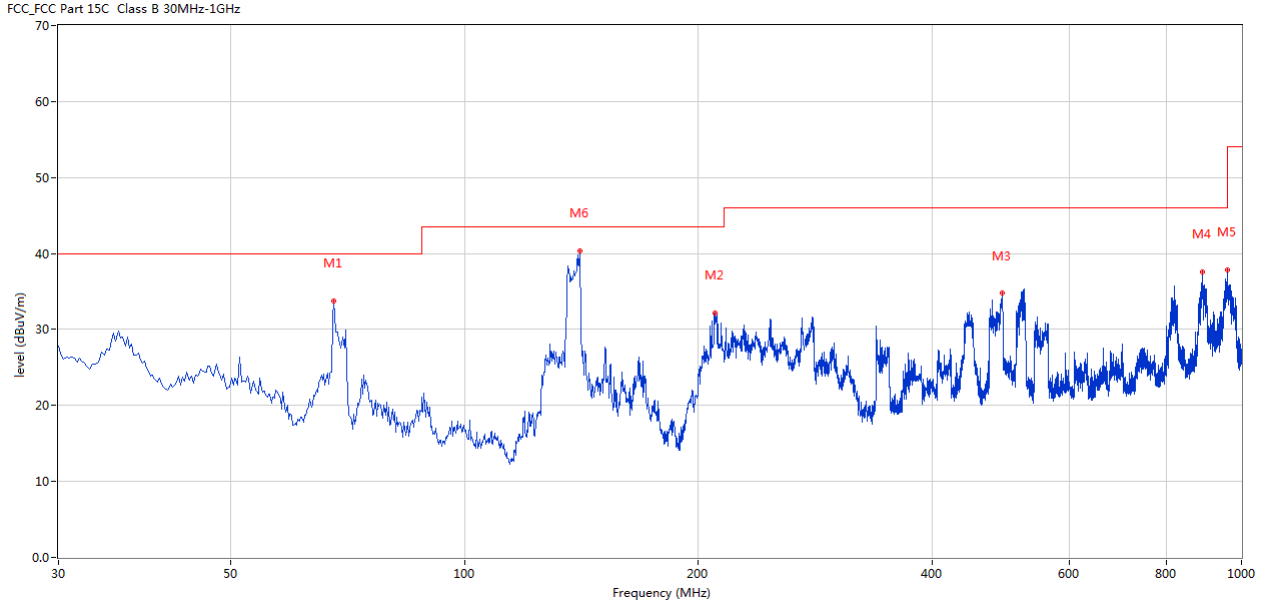
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Test Figure:

V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	67.821	33.73	-14.55	40.0	-6.27	Peak	360.00	200	Vertical	Pass
2	209.890	30.15	-13.56	43.5	-13.35	Peak	309.00	100	Vertical	Pass
3	492.089	34.78	-7.22	46.0	-11.22	Peak	207.00	100	Vertical	Pass
4	891.630	37.58	-1.93	46.0	-8.42	Peak	187.00	100	Vertical	Pass
5	958.058	37.84	-1.67	46.0	-8.16	Peak	174.00	100	Vertical	Pass
6	140.592	40.32	-17.24	43.5	-3.18	Peak	341.00	100	Vertical	Pass

Note: for other frequencies not marked, the emission level less than the limit for more than 20dB.

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Radiated Disturbance (1000MHz----18000MHz)

EUT Operating Environment

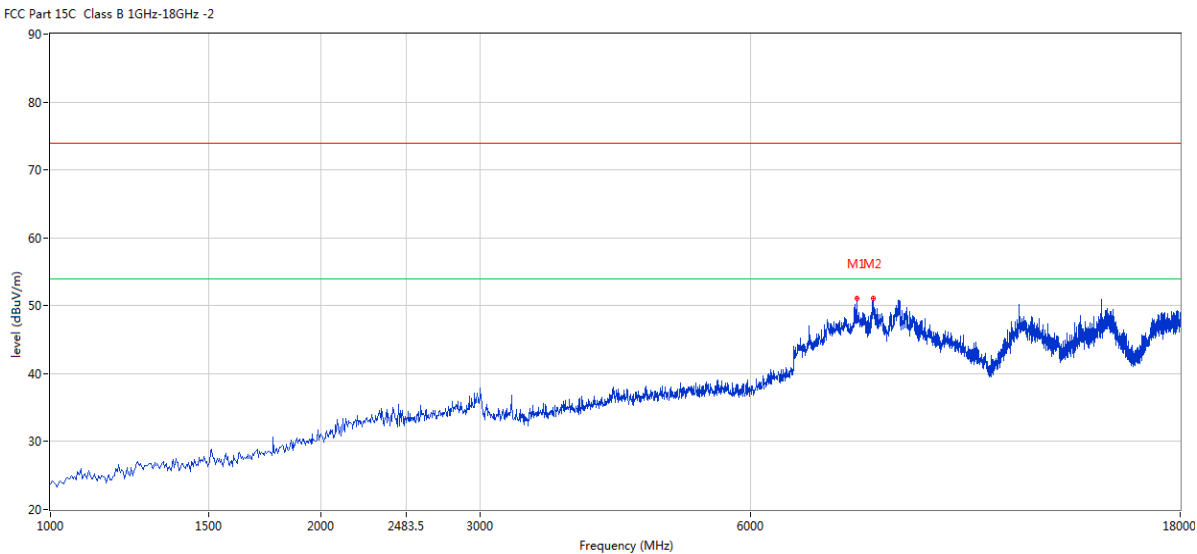
Temperature:25℃ **Humidity:** 75%RH **Atmospheric Pressure:** 101 kPa

EUT set Condition: Running EMC test Program

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	7874.781	51.10	8.41	74.0	-22.90	Peak	177.00	100	H	Pass
2	8201.950	51.16	8.33	74.0	-22.84	Peak	0.00	100	H	Pass

Note: 1. Due to the final radiated level much less than the limit for more than 20dB, so necessary take down final radiated level

2. For radiated Emissions from 18-40GHz, it is only the floor noise.

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Radiated Disturbance (1000MHz----18000MHz)

EUT Operating Environment

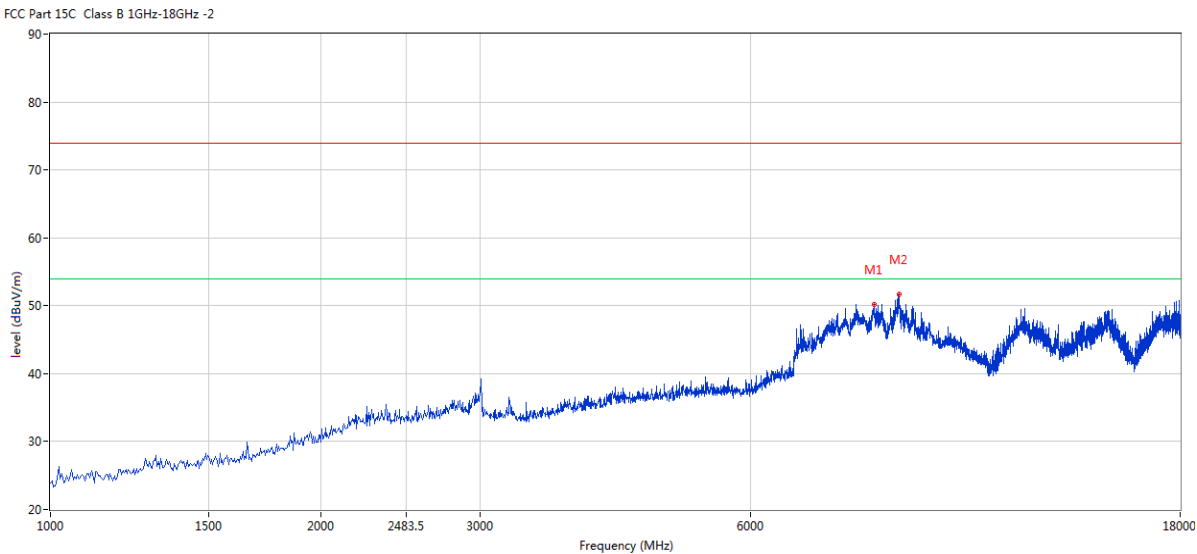
Temperature:25℃ Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Running EMC test Program

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	8231.692	50.25	8.31	74.0	-23.75	Peak	297.00	100	V	Pass
2	8762.809	51.74	7.96	74.0	-22.26	Peak	187.00	100	V	Pass

Note: 1. Due to the final radiated level much less than the limit for more than 20dB, so necessary take down final radiated level

2. For radiated Emissions from 18-40GHz, it is only the floor noise.

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Radiated Disturbance (1000MHz----18000MHz)

EUT Operating Environment

Temperature:25℃ **Humidity:** 75%RH **Atmospheric Pressure:** 101 kPa

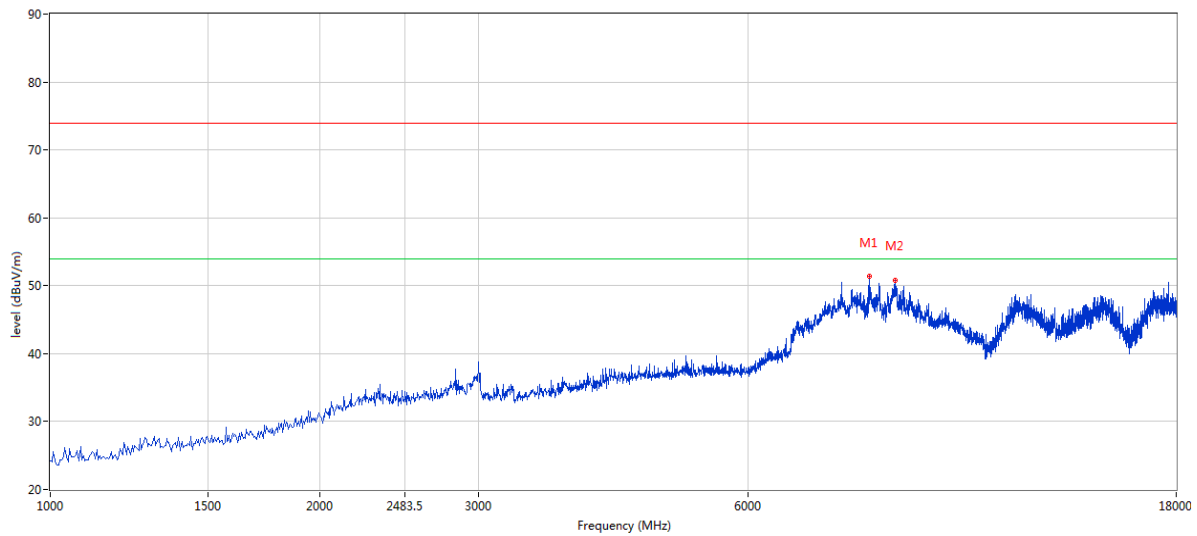
EUT set Condition: Play USB

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	8197.701	51.36	8.33	74.0	-22.64	Peak	100.00	100	H	Pass
2	8758.560	50.84	7.96	74.0	-23.16	Peak	100.00	100	H	Pass

Note: 1. Due to the final radiated level much less than the limit for more than 20dB, so necessary take down final radiated level

2. For radiated Emissions from 18-40GHz, it is only the floor noise.

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Radiated Disturbance (1000MHz----18000MHz)

EUT Operating Environment

Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

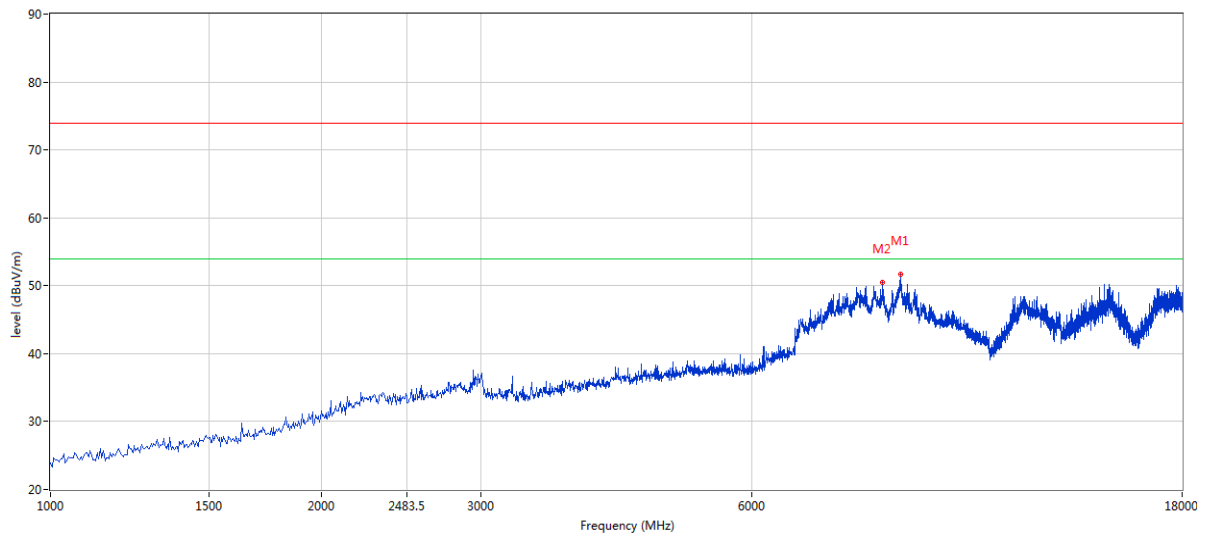
EUT set Condition: Play USB

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	8779.805	51.63	7.95	74.0	-22.37	Peak	242.00	100	V	Pass
2	8367.658	50.50	8.20	74.0	-23.50	Peak	0.00	100	V	Pass

Note: 1. Due to the final radiated level much less than the limit for more than 20dB, so necessary take down final radiated level

2. For radiated Emissions from 18-40GHz, it is only the floor noise.

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Radiated Disturbance (1000MHz----18000MHz)

EUT Operating Environment

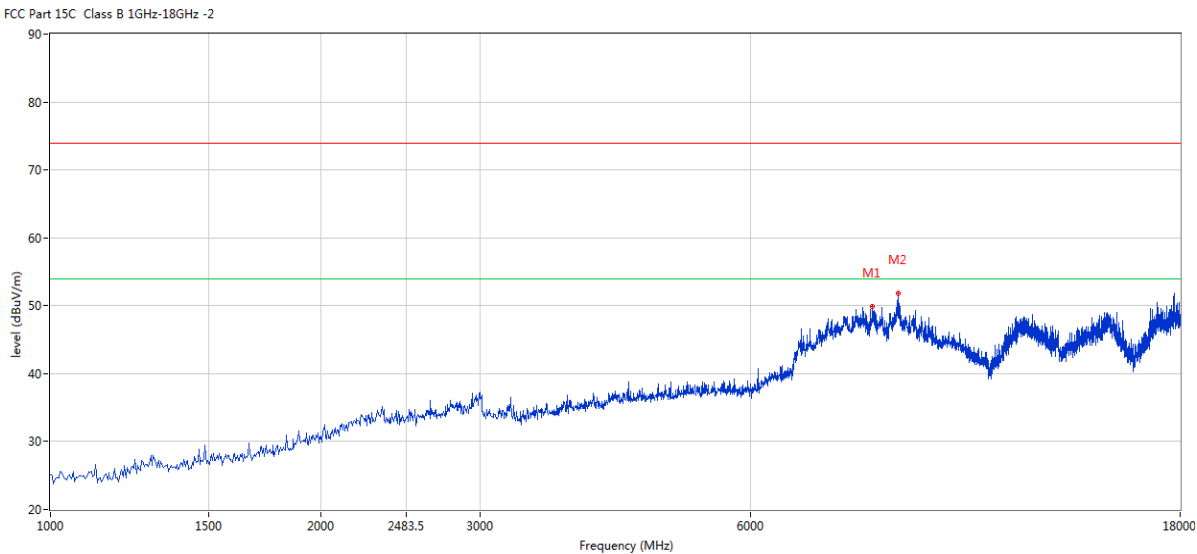
Temperature:25℃ **Humidity:** 75%RH **Atmospheric Pressure:** 101 kPa

EUT set Condition: Ping Network (According to RJ45 Port)

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	8189.203	49.83	8.34	74.0	-24.17	Peak	360.00	100	H	Pass
2	8758.560	51.83	7.96	74.0	-22.17	Peak	169.00	100	H	Pass

Note: 1. Due to the final radiated level much less than the limit for more than 20dB, so necessary take down final radiated level

2. For radiated Emissions from 18-40GHz, it is only the floor noise.

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Radiated Disturbance (1000MHz----18000MHz)

EUT Operating Environment

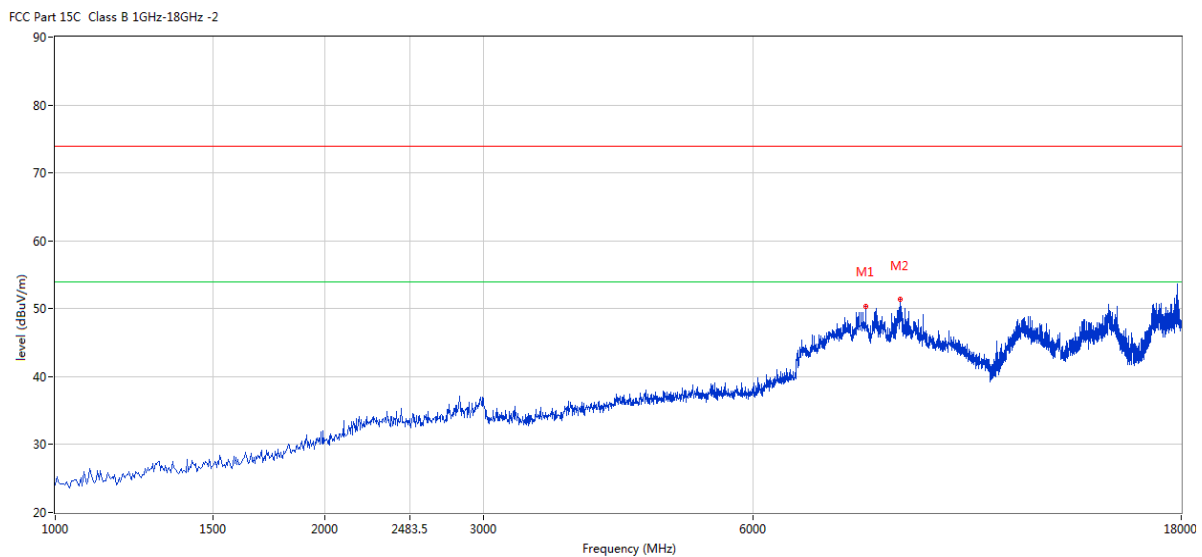
Temperature:25°C Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Ping Network (According to RJ45 Port)

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	8006.498	50.38	8.48	74.0	-23.62	Peak	8.00	100	V	Pass
2	8750.062	51.33	7.97	74.0	-22.67	Peak	360.00	100	V	Pass

Note: 1. Due to the final radiated level much less than the limit for more than 20dB, so necessary take down final radiated level

2. For radiated Emissions from 18-40GHz, it is only the floor noise.

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Radiated Disturbance (1000MHz----18000MHz)

EUT Operating Environment

Temperature:25℃ **Humidity:** 75%RH **Atmospheric Pressure:** 101 kPa

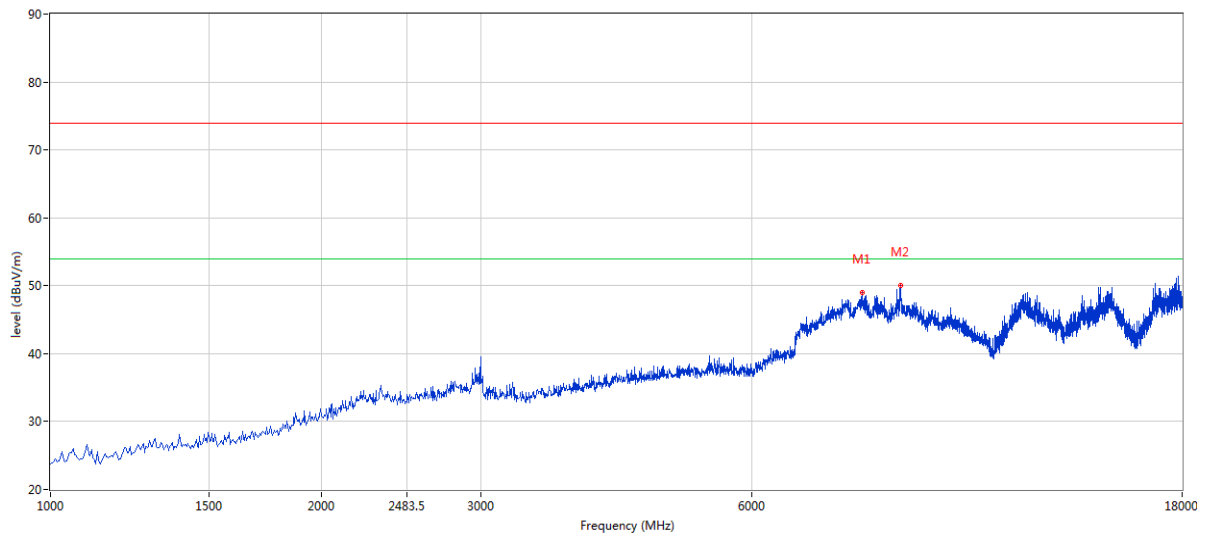
EUT set Condition: Communication by WIFI

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	7942.764	48.96	8.45	74.0	-25.04	Peak	146.00	100	H	Pass
2	8767.058	50.05	7.96	74.0	-23.95	Peak	105.00	100	H	Pass

Note: 1. Due to the final radiated level much less than the limit for more than 20dB, so necessary take down final radiated level

2. For radiated Emissions from 18-40GHz, it is only the floor noise.

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Radiated Disturbance (1000MHz----18000MHz)

EUT Operating Environment

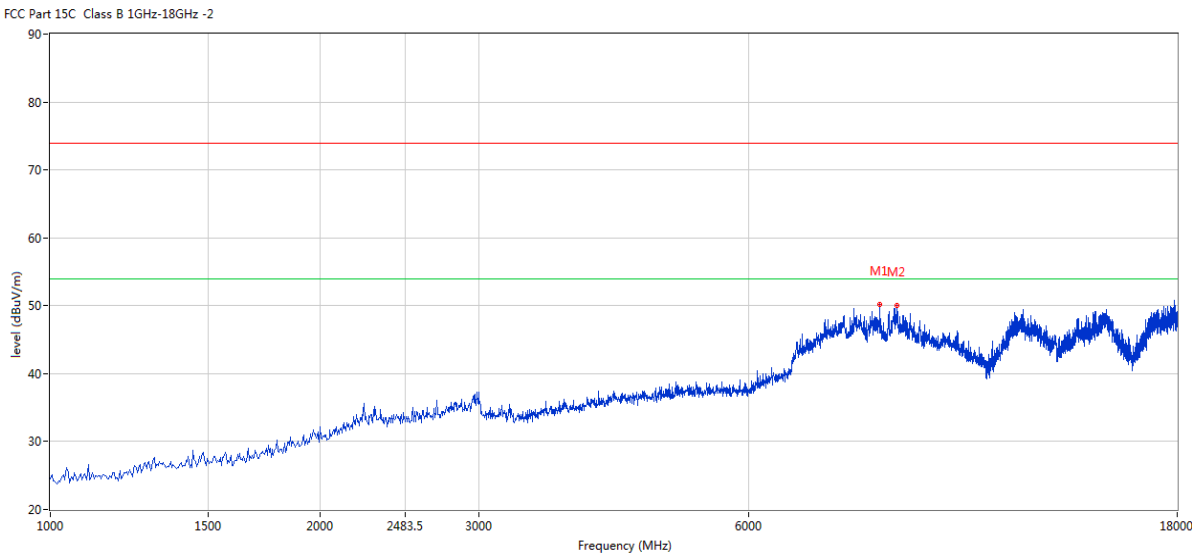
Temperature:25℃ Humidity: 75%RH Atmospheric Pressure: 101 kPa

EUT set Condition: Communication by WIFI

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	8388.903	50.19	8.18	74.0	-23.81	Peak	18.00	100	V	Pass
2	8779.805	50.07	7.95	74.0	-23.93	Peak	18.00	100	V	Pass

Note: 1. Due to the final radiated level much less than the limit for more than 20dB, so necessary take down final radiated level

2. For radiated Emissions from 18-40GHz, it is only the floor noise.

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6.0 FCC Label

FCC ID: YS2OPSTI7W-TI7WPS

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

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7.0 Photo of testing

7.1 Conducted test View--



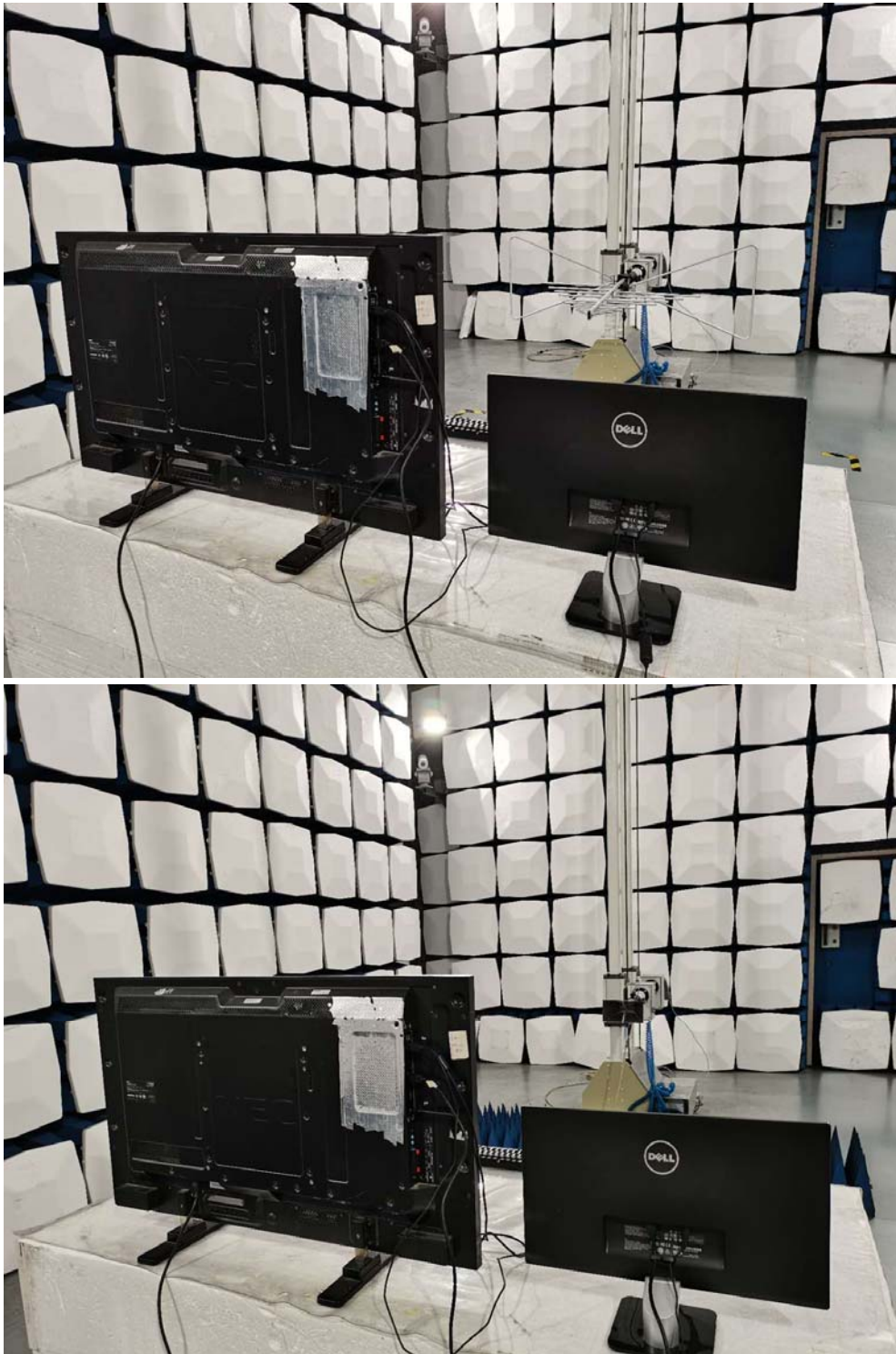
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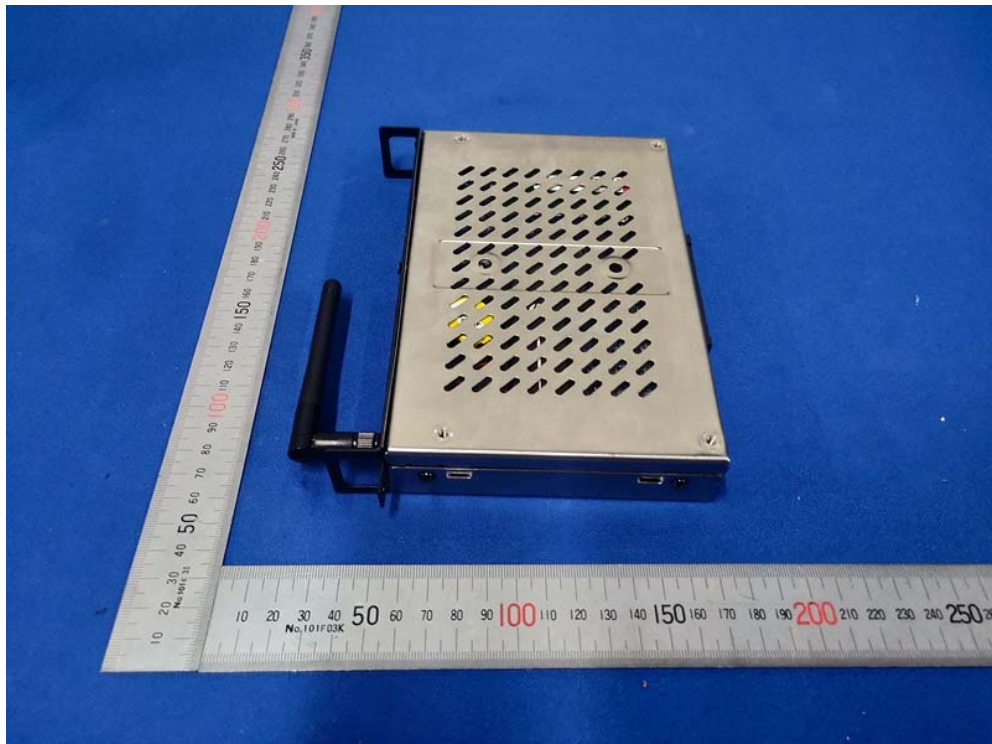
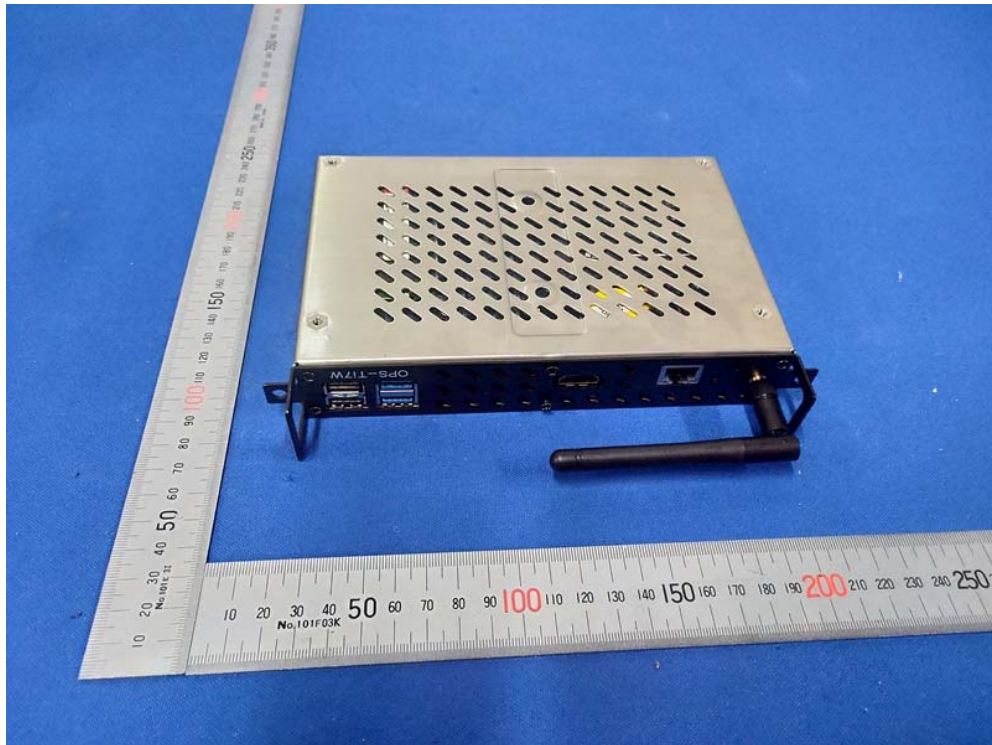
7.2 Radiated emission test view--



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Photos of EUT



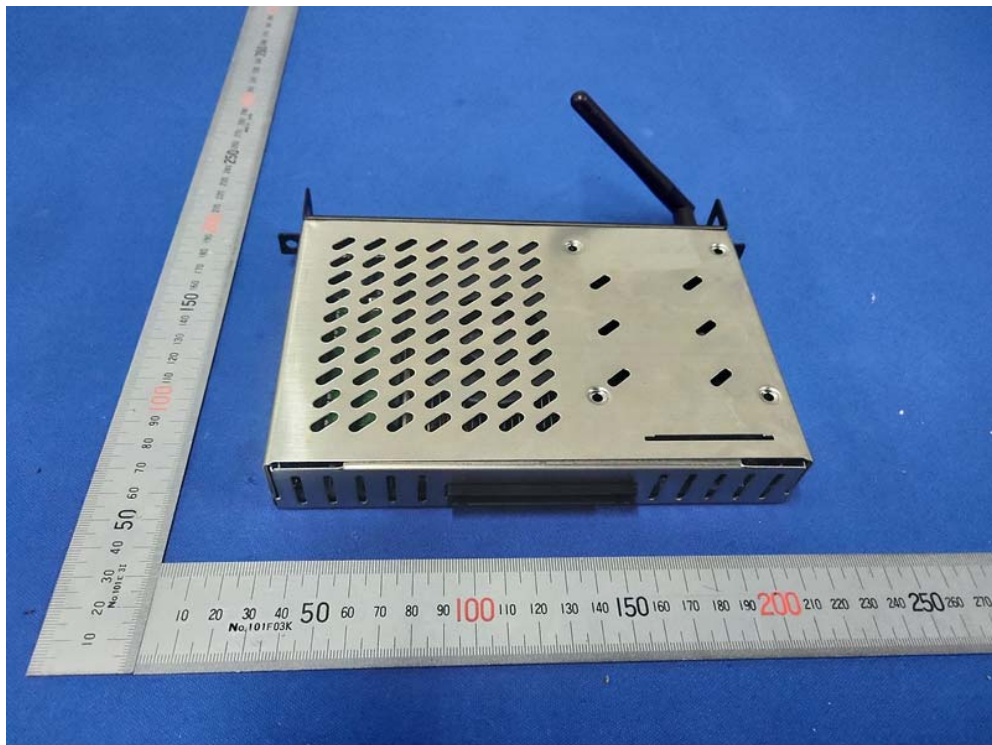
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Photos of EUT



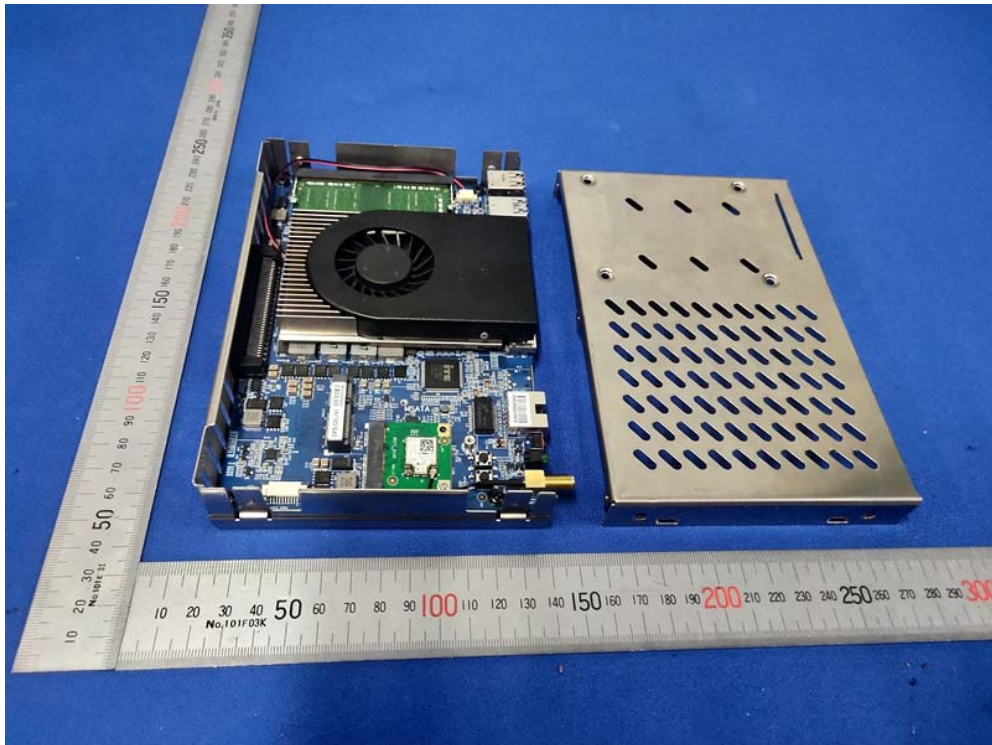
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Photos of EUT



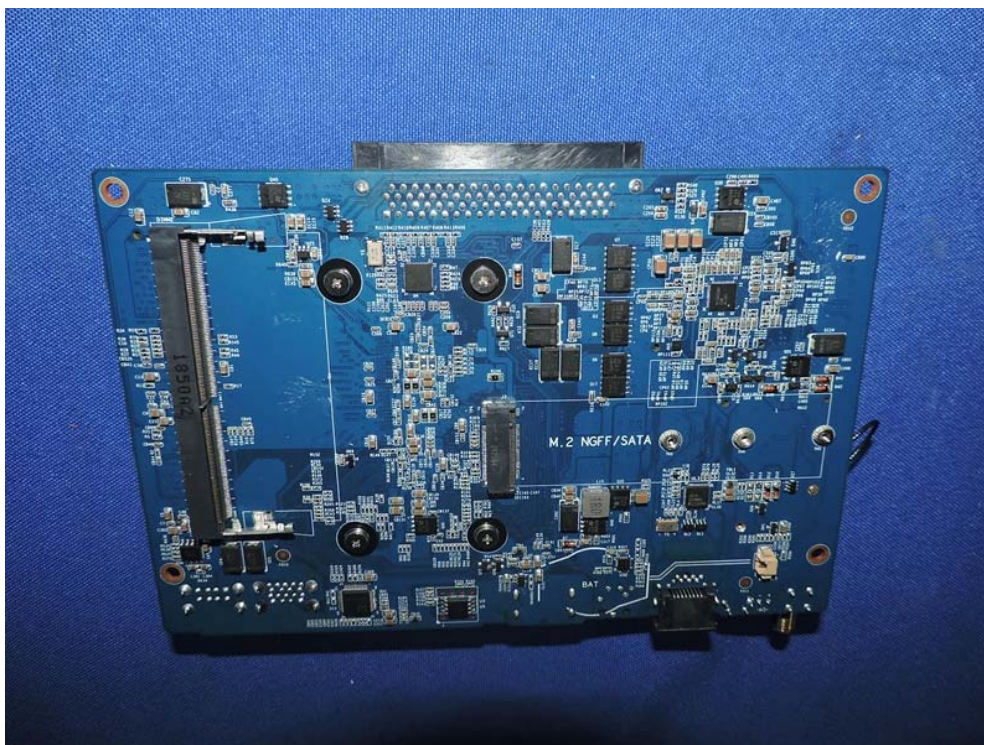
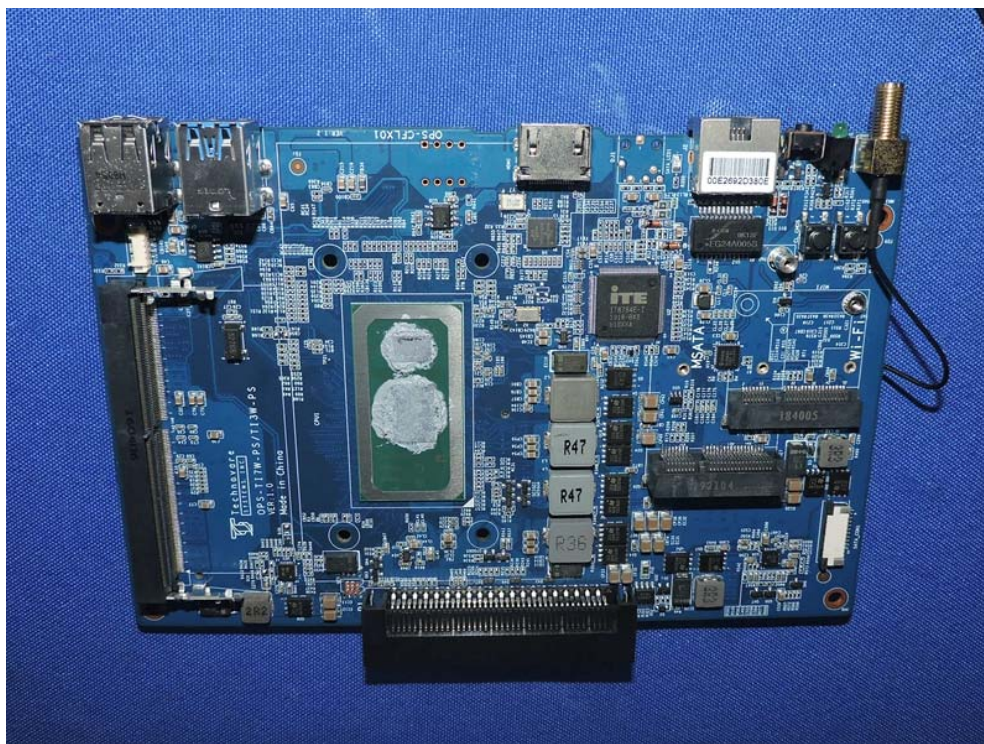
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Photos of EUT



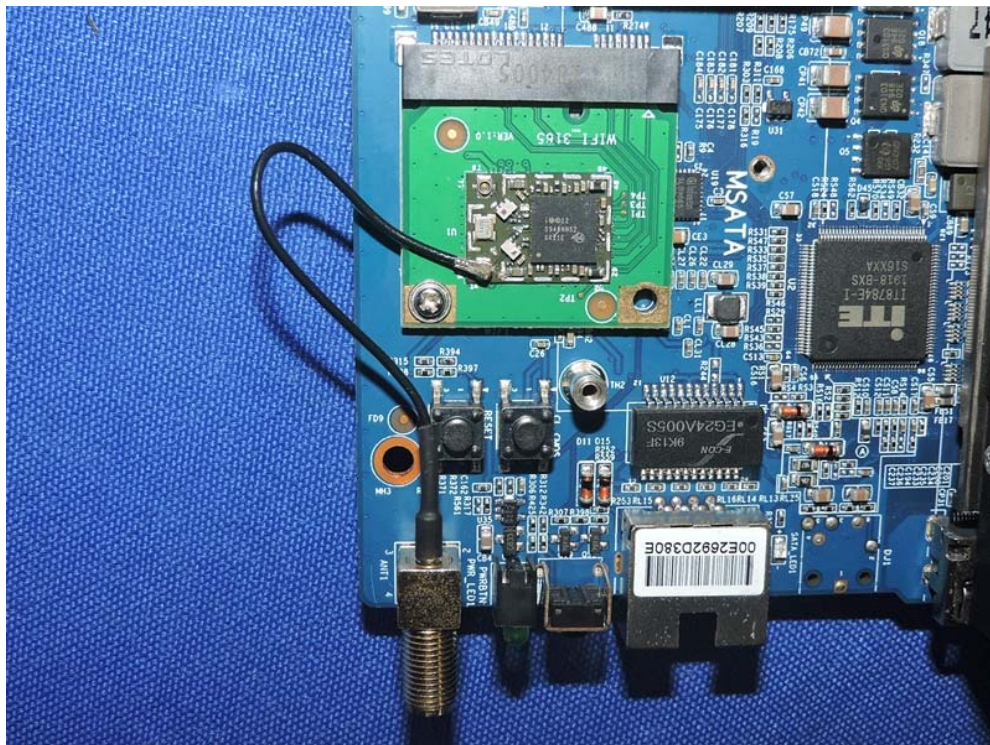
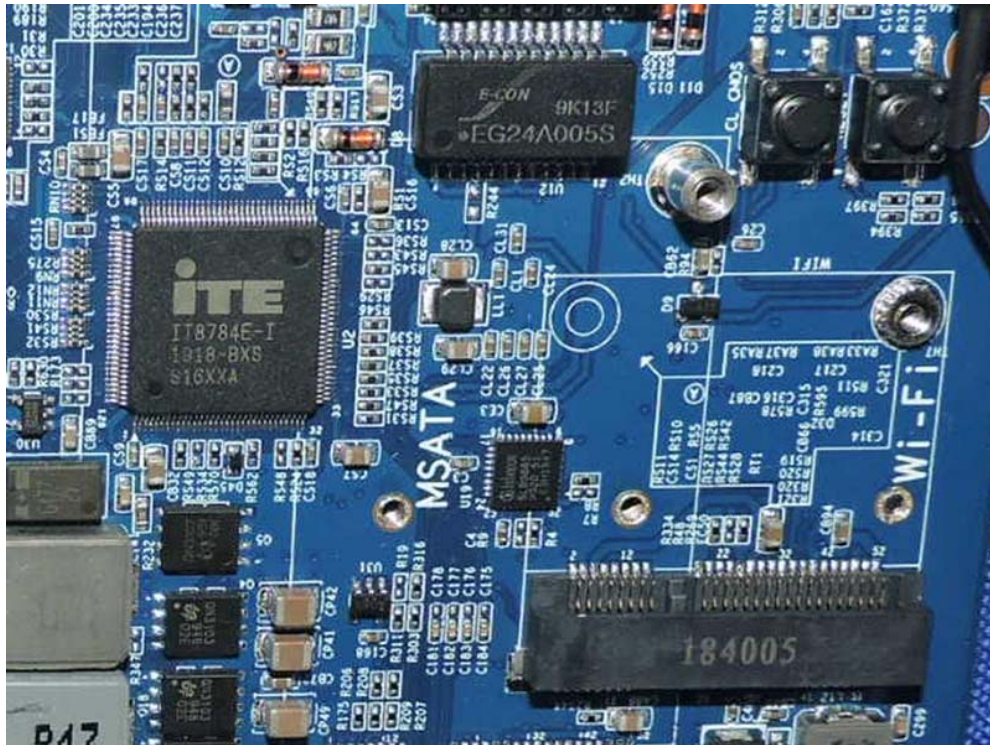
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Photos of EUT



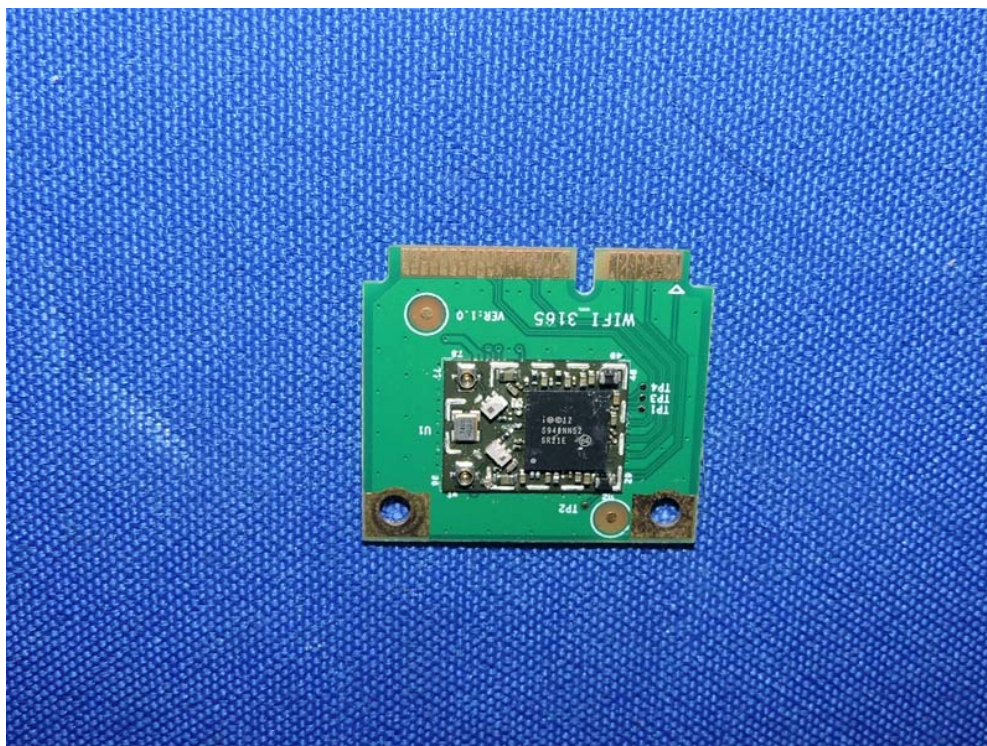
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Photos of EUT



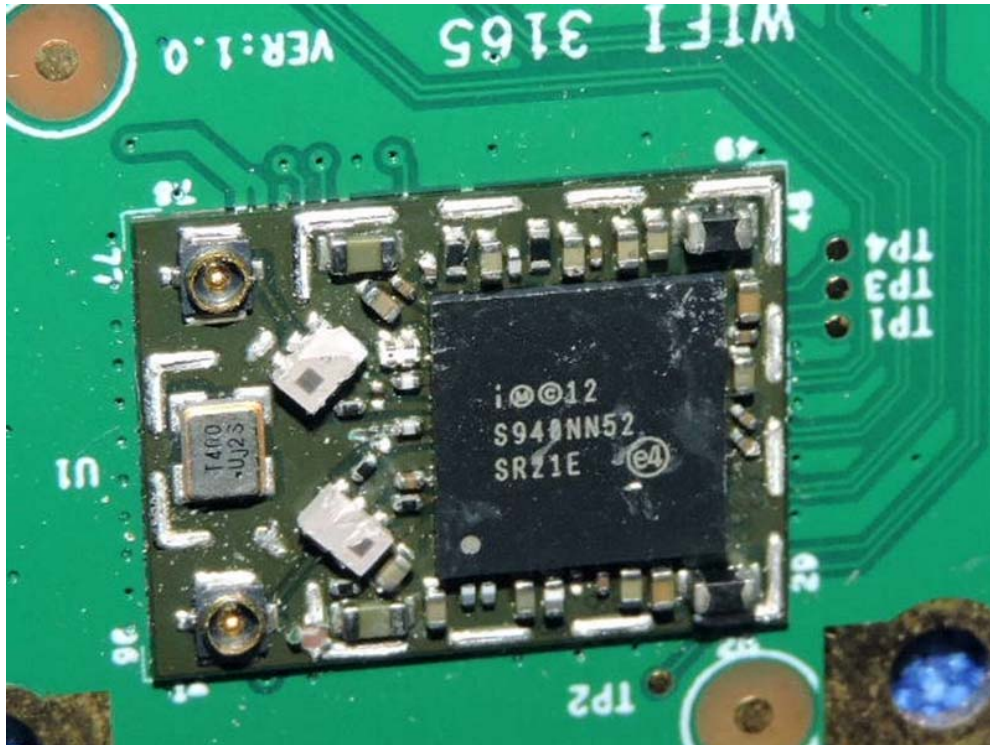
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Photos of EUT



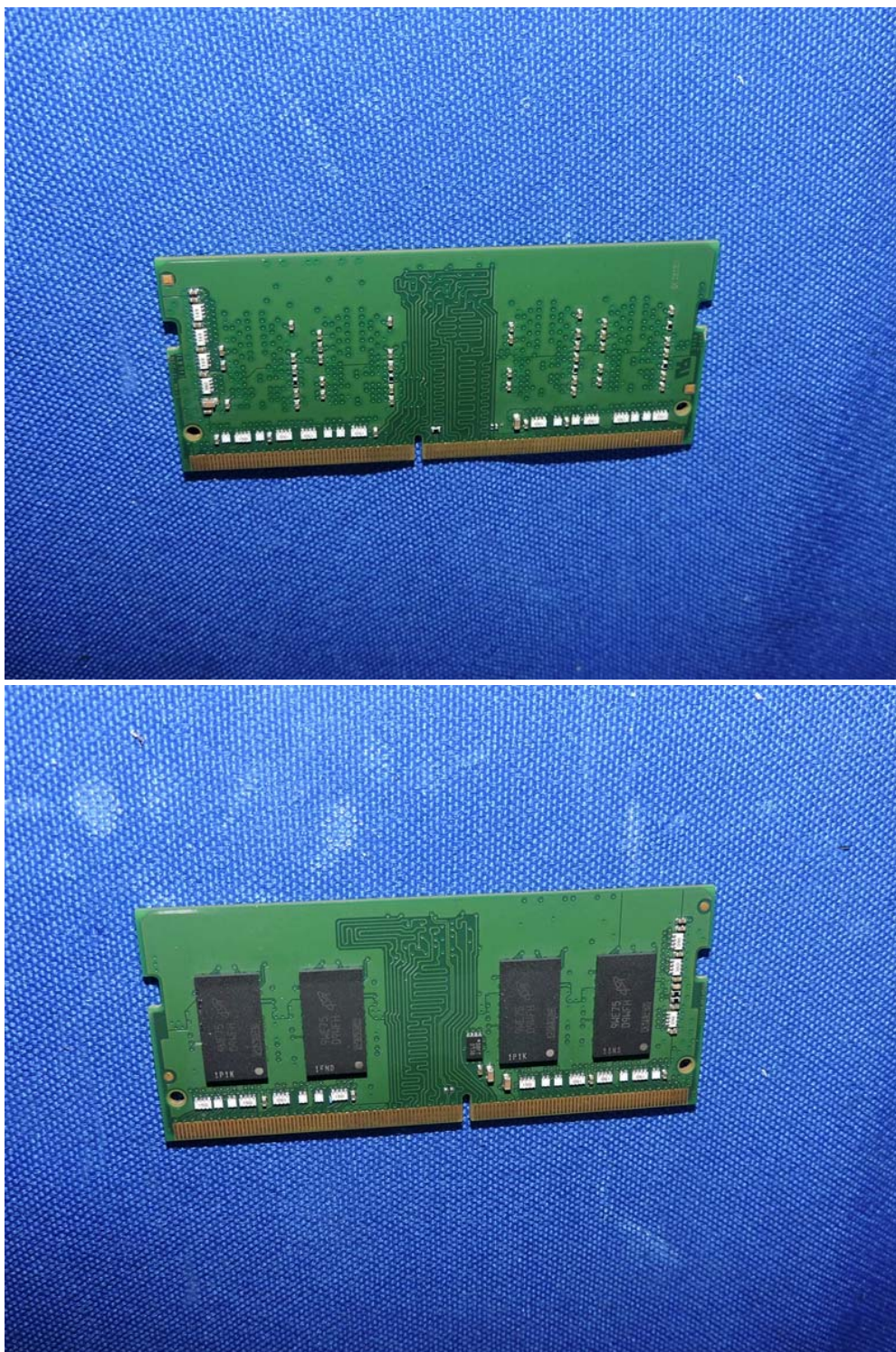
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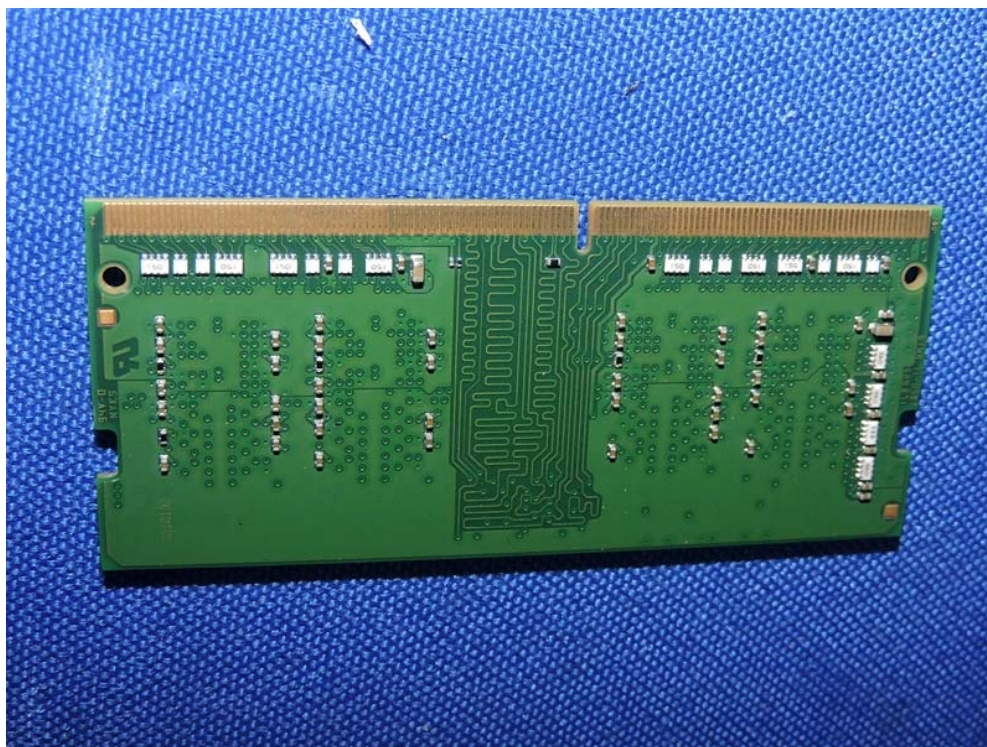
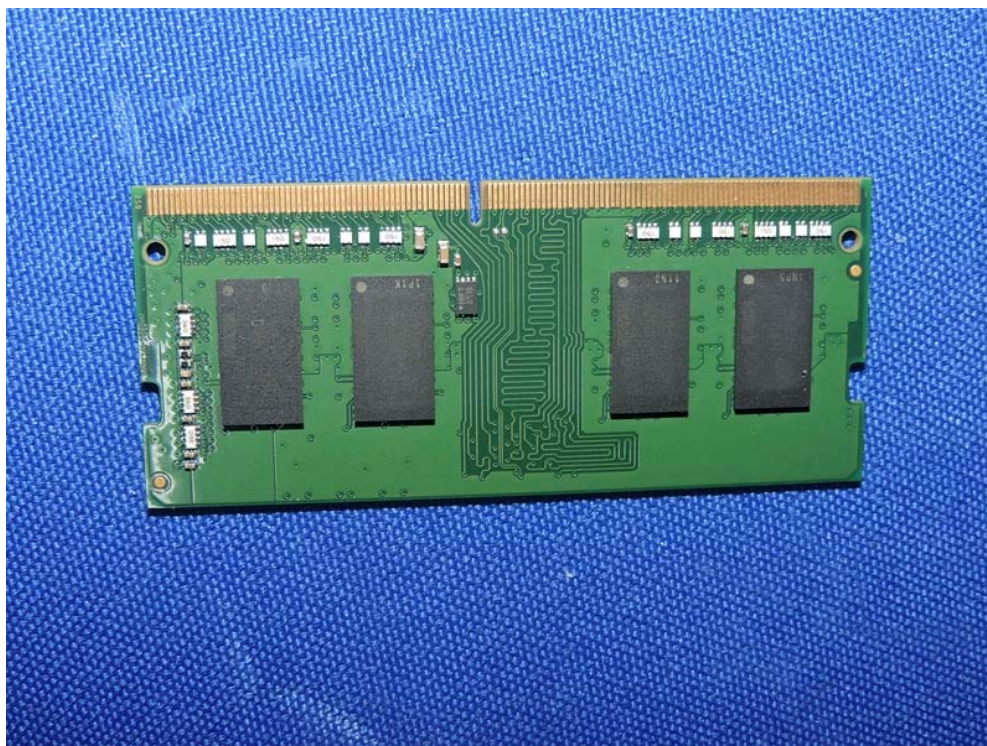
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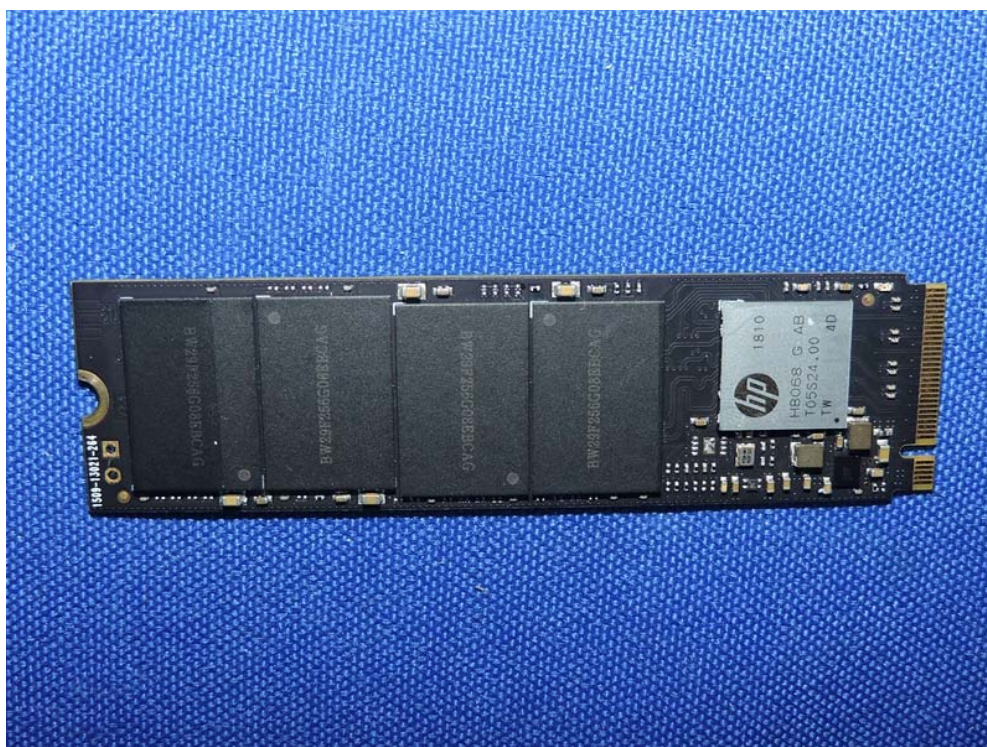
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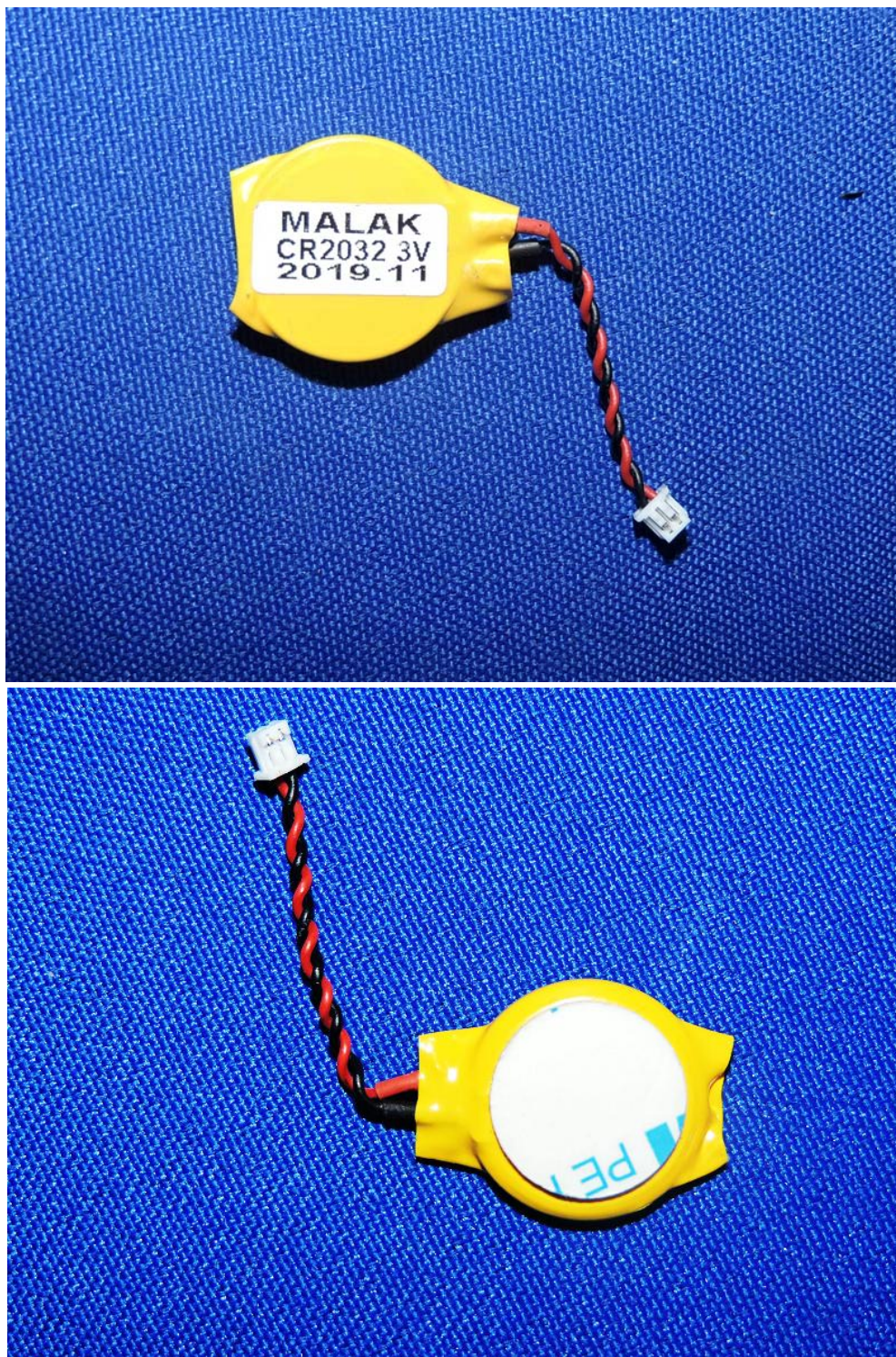
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-End of the report-

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