

TEST REPORT

Report No.: SHE19110027-01CE

Date: 2020-01-07

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Applicant : Shanghai Goodview Electronics Technology Co., Ltd.
Address of Applicant : Room 866, NO.888, West Huanhu 2 Road,
NanhuiXincheng Town, Pudong, Shanghai, China

Product Name : LCD DIGITAL DISPLAY/Digital Sign Board
Model No. : TC*****,
(*=A to Z, 0 to 9, blank, just different in appearance color,
sales area customer code, and software version)

Sample No. : E19110027-01#01
E19110027-01#02

FCC ID : 2AVB8TCH

Standards : FCC CFR47 Part 15, Subpart C

Date of Receipt : 2019-10-24
Date of Test : 2019-11-25 ~ 2020-01-06
Date of Issue : 2020-01-07

Remark:

This report details the results of the testing carried out on one sample, the results contained in this report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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(Jennifer Zhou)

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(Adrian Shi)

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(Authorized signatory: Guoyou Chi)

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Revision Record			
Version	Date	Revisions	Revised By
1.0	2020-01-07	Original	--

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1 General Information

1.1 Testing Laboratory

Company Name	ICAS Testing Technology Services (Shanghai) Co., Ltd.
Address	155 Pingbei Rd, Minhang District, Shanghai, China
Telephone	0086 21-51682999
Fax	0086 21-54711112
Homepage	www.icasiso.com

1.2 Details of Application

Company Name	Shanghai Goodview Electronics Technology Co., Ltd.
Address	Room 866, NO.888, West Huanhu 2 Road, NanhuiXincheng Town, Pudong, Shanghai, China
Contact Person	Hongyue. Xu
Telephone	15618060409
Email	xuhongyue@goodview.com

1.3 Details of EUT

Product Name	LCD DIGITAL DISPLAY/Digital Sign Board
Brand Name	GOODVIEW
Model No.	TC****, (*=A to Z, 0 to 9, blank, just different in appearance color, sales area customer code, and software version)
FCC ID	2AVB8TCH
Mode of Operation	WLAN 802.11b/g/n(HT20)
Frequency Range	2400MHz ~ 2483.5MHz
Channel Separation	5 MHz
Modulation Type	DSSS, OFDM
Antenna Type	External Antenna
Antenna Gain	3.00 dBi
Extreme Temperature Range	10℃ ~ +40℃
Test Voltage	AC 220V

Note(s):

All applicable tests as described in test case and measurement sections were performed on model TC22H1.

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1.4 Test Methodology

47 CFR Part 15, Subpart C	Miscellaneous Wireless Communications Services
KDB Publication 558074 D01 v05r02	15.247 Meas Guidance.
KDB Publication 662911 D01 v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)
ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

Note(s):

All test items were verified and recorded according to the standards and without any addition/deviation/exclusion during the test.

1.5 Test Verdict

No.	FCC Part No.	ISED Part No.	Description	Test Result	Verdict
1	15.203	RSS-247, 5.4(6)	Antenna Requirement	Clause 4.1.1	PASS
2	15.247(b)	RSS-247, 5.4(4)	Peak Output Power	Clause 4.1.2	PASS
3	15.247(a)	RSS-Gen, 6.6; RSS-247, 5.2(1)	6dB Bandwidth and 99% Bandwidth	Clause 4.1.3	PASS
4	15.247(e)	RSS-247, 5.2(2)	Power Spectral Density	Clause 4.1.4	PASS
5	15.247(d), 15.209	RSS Gen, 8.9; RSS-247, 5.5	Conducted Spurious Emission & Authorized-band band-edge	Clause 4.1.5	PASS
6	15.247(d), 15.205, 15.209	RSS-247, 5.5	Spurious Emission	Clause 4.1.6	PASS
7	15.247(d), 15.205, 15.209	RSS-247, 5.5	Band Edge (Restricted-band band-edge)	Clause 4.1.7	PASS
8	15.207(a)	RSS-Gen 8.8	Conducted Emission	Clause 4.2.1	PASS

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2 Test Condition

2.1 Environmental conditions

Temperature (°C)	18-25
Humidity (%RH)	40-65
Barometric Pressure (mbar)	960-1060

2.2 Equipment List

Name of Equipment	Manufacturer	Model	Serial No.	Cal. Due Date
Spectrum Analyzer	Keysight	N9020B	MY59260184	2020-07-28
Spectrum Analyzer	Rohde & Schwarz	FSV40N	101450	2020-06-24
EMI Test Receiver	Rohde & Schwarz	ESPI3	100173	2020-06-19
EMI Test Receiver	Rohde & Schwarz	ESR 7	101911	2020-06-19
V-network	SCHWARZBECK	NSLK 8127	8127-902	2020-02-20
Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	100687	2020-08-22
Broadband Antenna	SCHWARZBECK	VULB9163	9163-1037	2020-06-06
Horn Antenna-18G	SCHWARZBECK	BBHA9120D	9120D-1775	2020-06-06
Loop Antenna	SCHWARZBECK	FMZB 1513	N/A	2021-03-19
Horn Antenna-40G	YINGLIAN	LB-180400-KF	N/A	2020-07-26
EMC chamber 9*6*6 (L*W*H)	CHANGNING	966	N/A	2020-06-26
Shielded Enclosure 8*5*4 (L*W*H)	CHANGNING	854	N/A	2020-08-28
Test Software	BL	BL410_E	N/A	N/A

2.3 Measurement Uncertainty

Parameter	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	± 1.5 dB
	> 1GHz	± 1.5 dB
Radiated Emission	30 MHz – 1 GHz	± 3 dB
	> 1GHz	± 3 dB

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3 Test Set-up and Operation Modes

3.1 Details of Test Mode

Using test software was control EUT work in continuous transmitter and receiver mode. Select test channel as below:
For 802.11b/g/n (HT20)

Channel	Frequency
The lowest channel(CH1)	2412MHz
The middle channel(CH6)	2437MHz
The Highest channel(CH11)	2462MHz

Through Pre-scan under all rate at lowest channel, the data rate as below table described is the worst case, so we choose these data rate for test.

Type	Data rate
802.11b	11Mbps
802.11g	54Mbps
802.11n(20M)	MCS7

The basic operation modes are:

- A. On
 - 1. WLAN mode
 - a. Transmitting
 - i. Low Channel
 - ii. Middle Channel
 - iii. High Channel
 - b. Receiving
- B. Standby
- C. Off

3.2 Special Accessories and Auxiliary Equipment

Description	Manufacturer	Model No.	Serial No.
Laptop	Lenovo	TP00083A	N/A

3.3 Support Software

Description	Manufacturer	Software Name
Software	/	RF Test Tool

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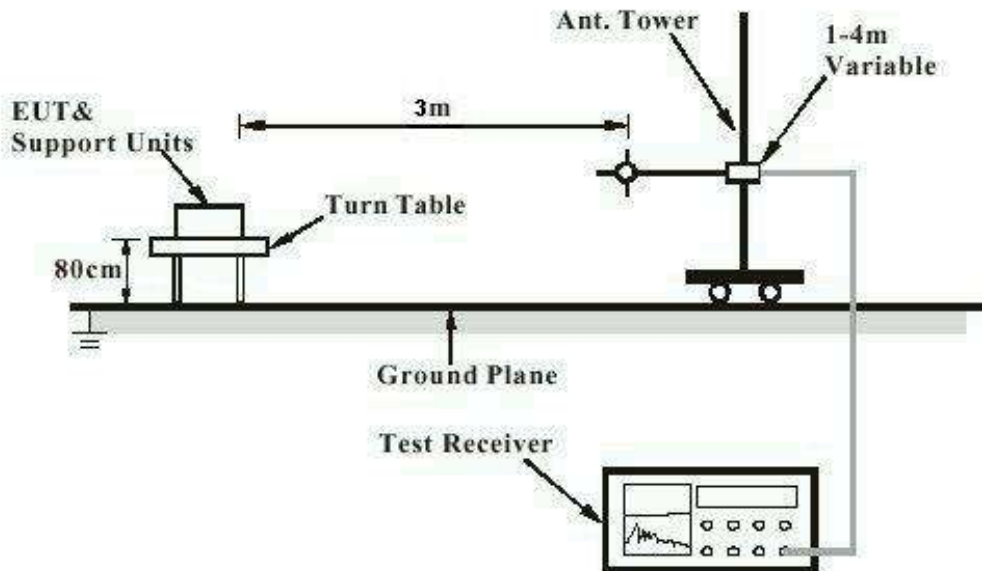
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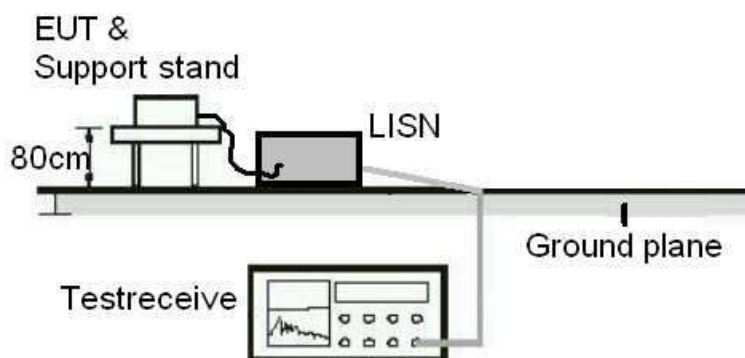
Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test



Note: Measurements above 1GHz are done with a table height of 1.5m. In addition, there is RF absorbing material on the floor of the test site for above 1GHz measurement.

Diagram of Measurement Equipment Configuration for Conduction Measurement



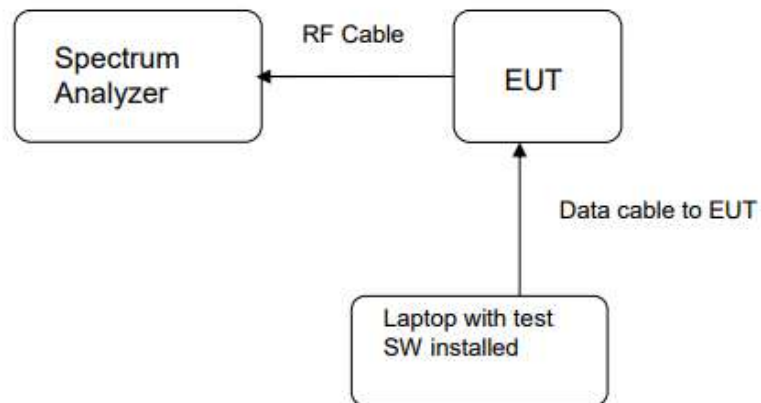
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Diagram of Measurement Equipment Configuration for Transmitter Measurement



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4 Test Results

4.1 Transmitter Requirement & Test Suites

4.1.1 Antenna Requirement

RESULT:

PASS

Test standard	: FCC Part 15.247(b)(4), Part 15.203
Requirement	: The use of approved antennas only with directional gains that do not exceed 6 dBi

According to the manufacturer declaration, the EUT has an antenna with a directional gain of 3 dBi. The antenna is an external antenna with no possibility of replacement with a non-approved antenna by the end-user.

Therefore, the EUT is considered to comply with this provision.

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4.1.2 Peak Output Power

RESULT:

PASS

Test standard : FCC Part 15.247(b)(3)
Requirement : ANSI C63.10-2013, KDB 558074
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 52%

Table 1: Peak Output Power

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(mW)	
802.11b	2412	13.44	22.08	< 1
	2437	13.72	23.55	
	2462	13.58	22.80	
802.11g	2412	13.18	20.80	
	2437	13.54	22.59	
	2462	13.32	21.48	
802.11n(HT20)	2412	12.81	19.10	
	2437	12.96	19.77	
	2462	13.14	20.61	

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4.1.3 6dB Bandwidth and 99% Bandwidth

RESULT:

PASS

Test standard : FCC Part 15.247(a)(2)
Requirement : ANSI C63.10-2013, KDB 558074
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 52%

Table 2: 6dB Bandwidth and 99% Bandwidth

Test Mode	Test Channel (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	6 dB Bandwidth Limit (MHz)
802.11b	2412	8.144	11.383	0.5
	2437	8.638	11.424	
	2462	7.889	11.495	
802.11g	2412	16.020	16.367	
	2437	15.830	16.360	
	2462	15.350	16.375	
802.11n(HT20)	2412	17.220	17.550	
	2437	17.210	17.603	
	2462	16.280	17.524	

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Figure 1: 6dB Bandwidth and 99% Bandwidth, 802.11b, 2412MHz



Figure 2: 6dB Bandwidth and 99% Bandwidth, 802.11b, 2437MHz



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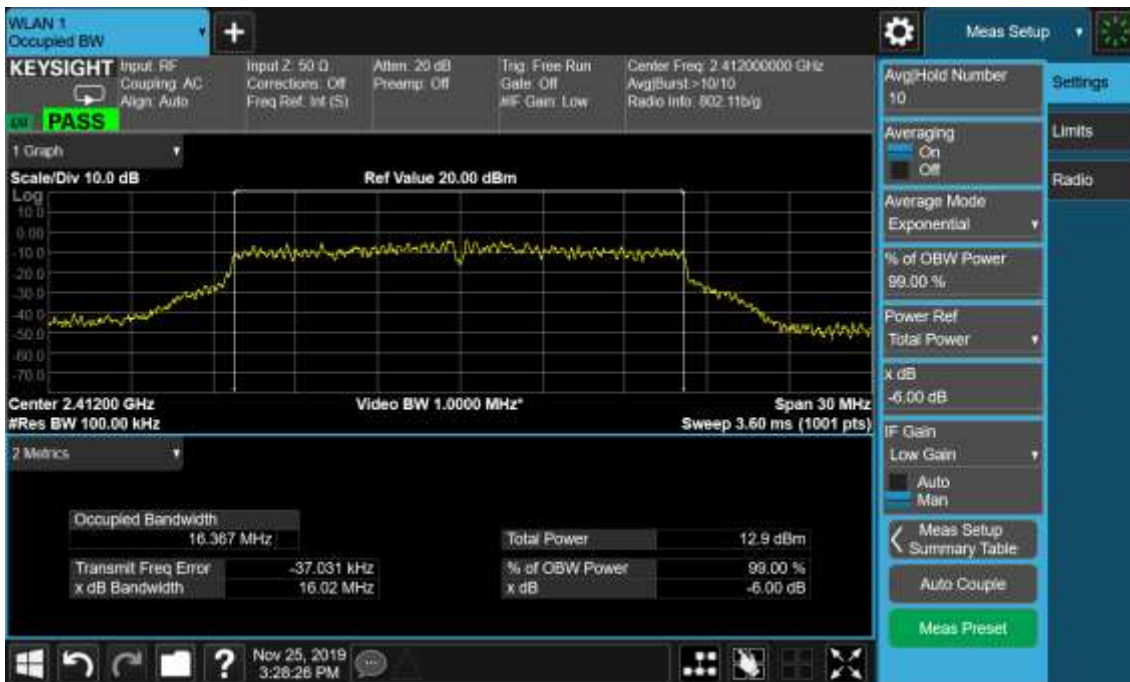
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Figure 3: 6dB Bandwidth and 99% Bandwidth, 802.11b, 2462MHz



Figure 4: 6dB Bandwidth and 99% Bandwidth, 802.11g, 2412MHz



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Figure 5: 6dB Bandwidth and 99% Bandwidth, 802.11g, 2437MHz

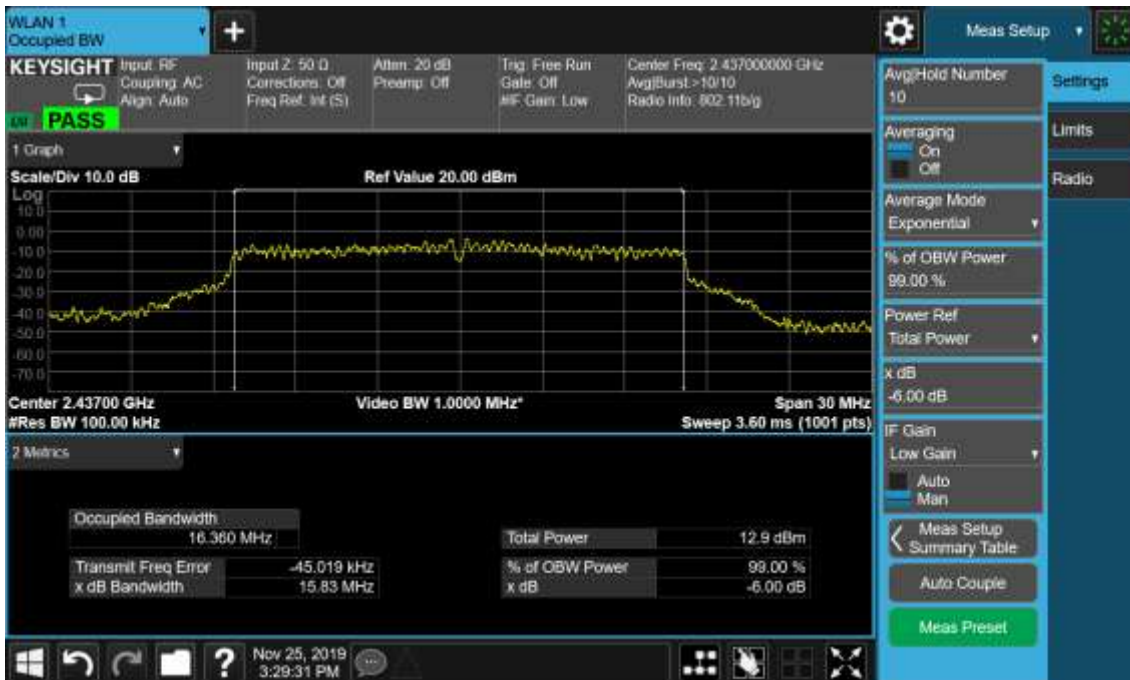
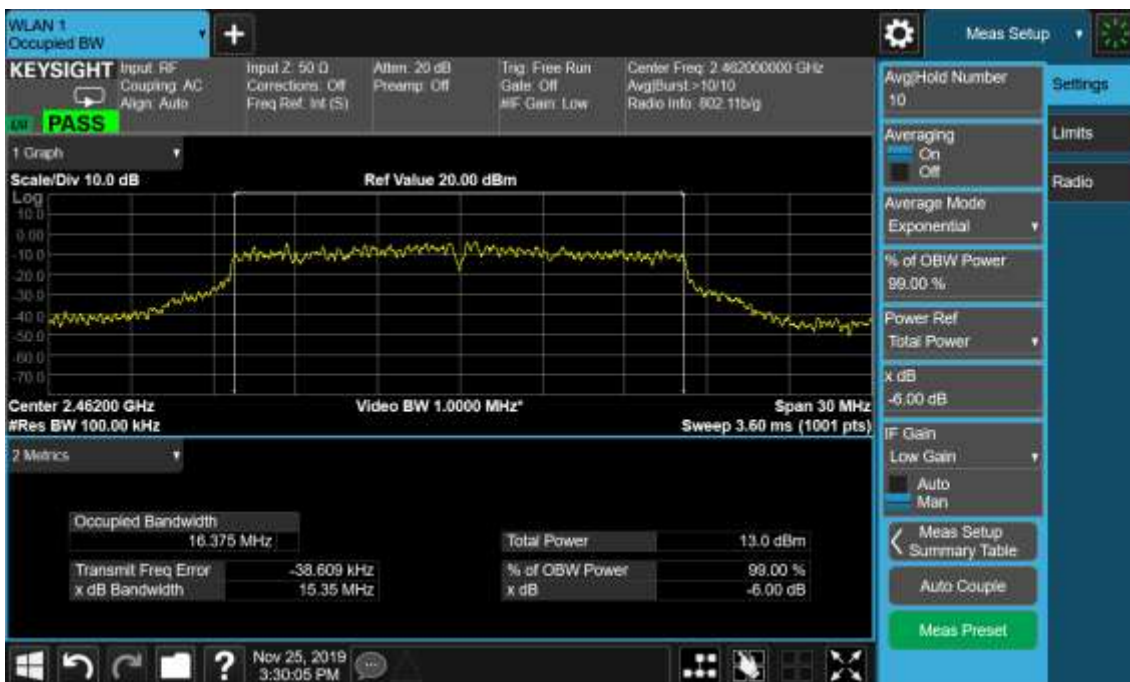


Figure 6: 6dB Bandwidth and 99% Bandwidth, 802.11g, 2462MHz



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Figure 7: 6dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 2412MHz

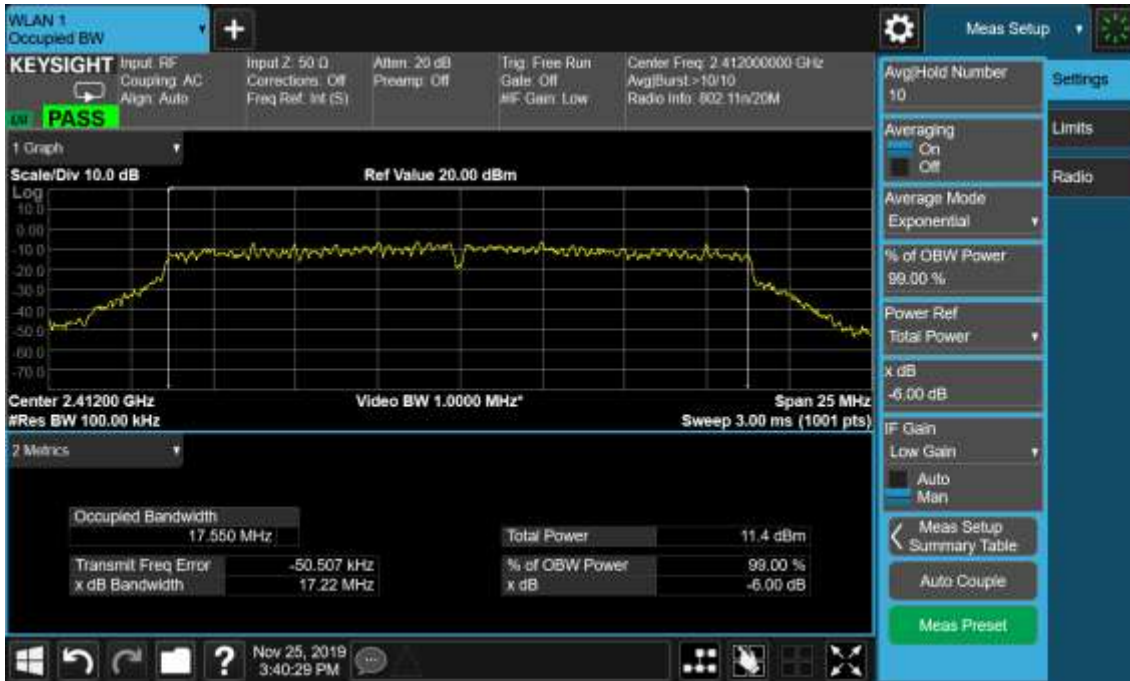
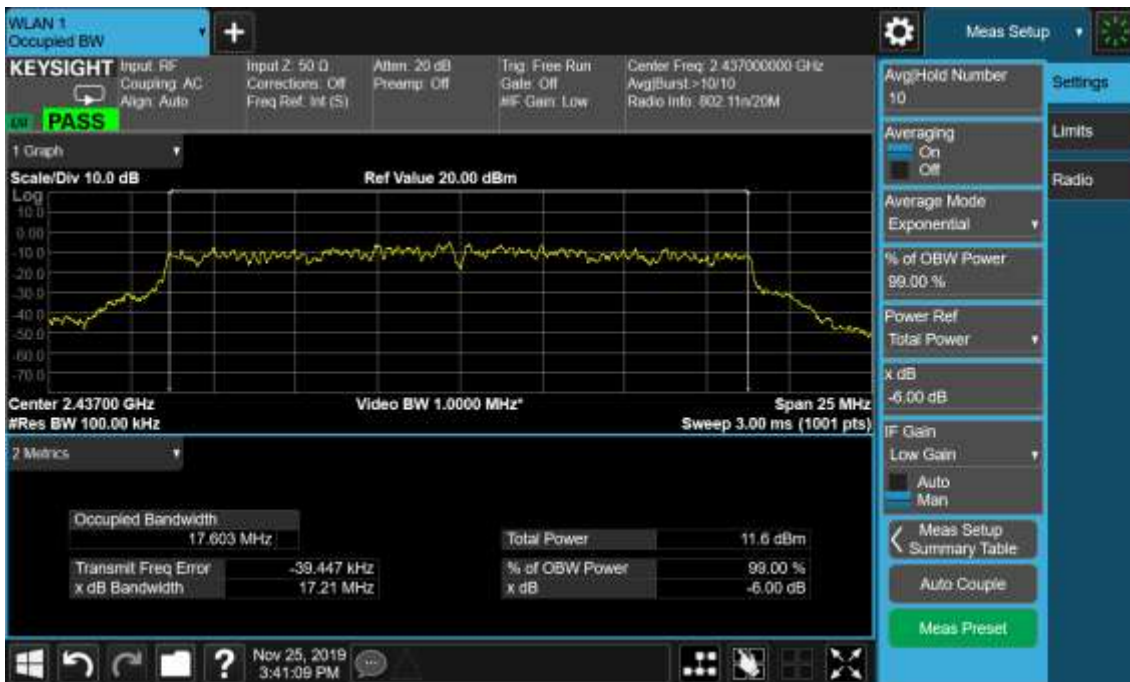


Figure 8: 6dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 2437MHz



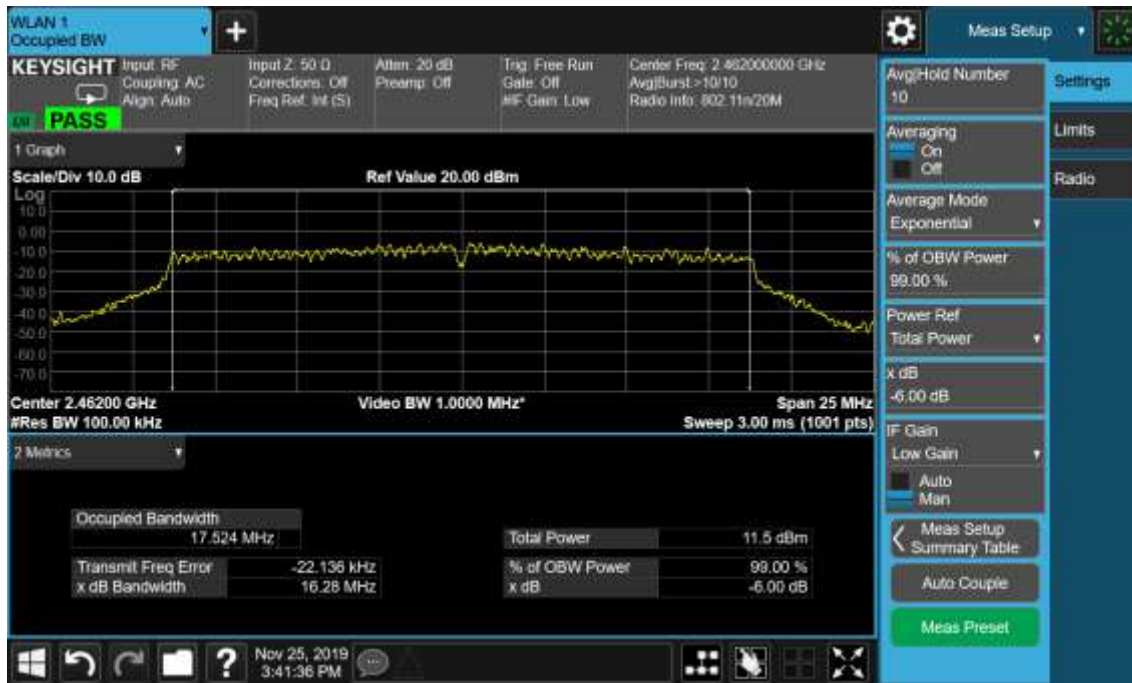
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Figure 9: 6dB Bandwidth and 99% Bandwidth, 802.11n(HT20), 2462MHz



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4.1.4 Power Spectral Density

RESULT:

PASS

Test standard : FCC Part 15.247(e)
Requirement : ANSI C63.10-2013, KDB 558074
Kind of test site : Shielded room

Test setup

Test Channel : Low/Middle/High
Operation Mode : A.1.a
Ambient temperature : 25°C
Relative humidity : 52%

Table 3: Power Spectral Density

Test Mode	Test Channel (MHz)	Measured Result (dBm/3kHz)	Limit (dBm/3kHz)
802.11b	2412	-8.58	8
	2437	-8.34	
	2462	-8.14	
802.11g	2412	-10.32	
	2437	-10.33	
	2462	-9.52	
802.11n(HT20)	2412	-11.04	
	2437	-10.59	
	2462	-11.04	

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Figure 10: Power Spectral Density, 802.11b, 2412MHz



Figure 11: Power Spectral Density, 802.11b, 2437MHz



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Figure 12: Power Spectral Density, 802.11b, 2462MHz



Figure 13: Power Spectral Density, 802.11g, 2412MHz



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Figure 14: Power Spectral Density, 802.11g, 2437MHz



Figure 15: Power Spectral Density, 802.11g, 2462MHz



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Figure 16: Power Spectral Density, 802.11n(HT20), 2412MHz



Figure 17: Power Spectral Density, 802.11n(HT20), 2437MHz



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Figure 18: Power Spectral Density, 802.11n(HT20), 2462MHz



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4.1.5 Conducted Spurious Emission & Authorized-band band-edge

RESULT:

PASS

Test standard	: FCC Part 15.247(d), 15.209
Requirement	: ANSI C63.10-2013, KDB 558074
Kind of test site	: Shielded room

Test setup

Test Channel	: Low/Middle/High for spurious, Low/High for Band Edge
Operation Mode	: A.1.a
Ambient temperature	: 25°C
Relative humidity	: 52%

For details refer to following test plot.

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Figure 19: Conducted Spurious Emission & Authorized-band band-edge, 802.11b, 2412MHz Carrier Level



Band Edge



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Conducted spurious emissions 30MHz-25GHz



Figure 20: Conducted Spurious Emission & Authorized-band band-edge, 802.11b, 2437MHz Carrier Level



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Conducted spurious emissions 30MHz-25GHz



Figure 21: Conducted Spurious Emission & Authorized-band band-edge, 802.11b, 2462MHz Carrier Level



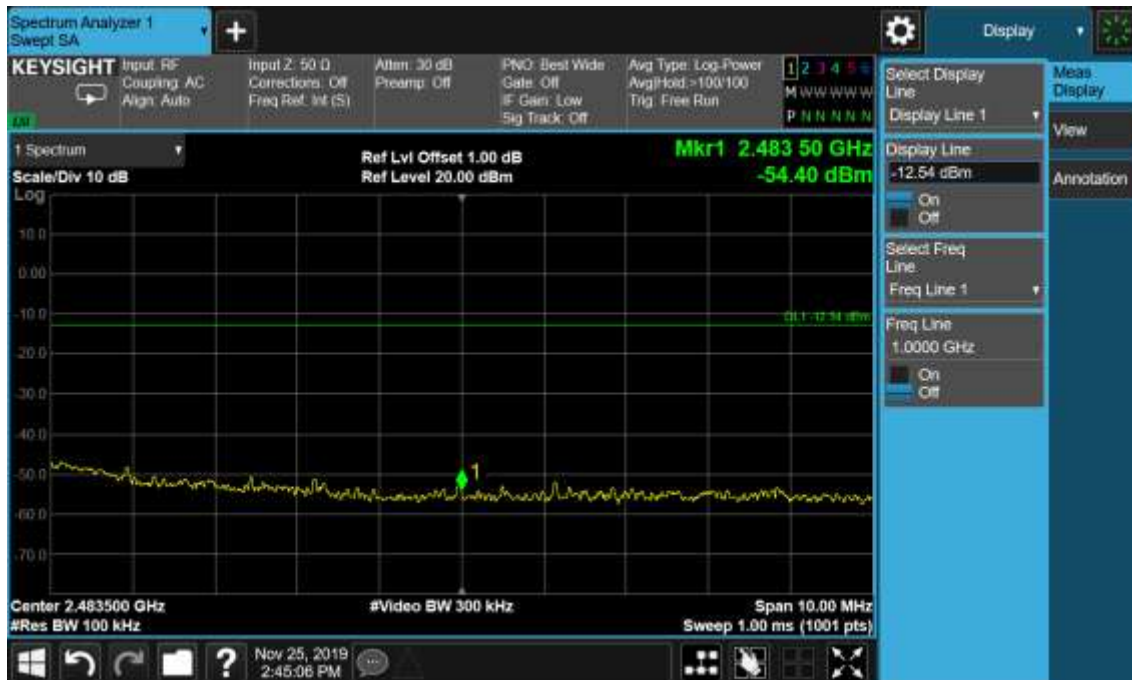
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Band Edge



Conducted spurious emissions 30MHz-25GHz



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Figure 22: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2412MHz Carrier Level



Band Edge



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Conducted spurious emissions 30MHz-25GHz



Figure 23: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2437MHz Carrier Level



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Conducted spurious emissions 30MHz-25GHz



Figure 24: Conducted Spurious Emission & Authorized-band band-edge, 802.11g, 2462MHz Carrier Level



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Band Edge



Conducted spurious emissions 30MHz-25GHz



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Figure 25: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2412MHz Carrier Level



Band Edge



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Conducted spurious emissions 30MHz-25GHz



Figure 26: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2437MHz Carrier Level



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Conducted spurious emissions 30MHz-25GHz



Figure 27: Conducted Spurious Emission & Authorized-band band-edge, 802.11n(HT20), 2462MHz Carrier Level



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Band Edge



Conducted spurious emissions 30MHz-25GHz



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4.1.6 Spurious Emission

RESULT:

PASS

Test standard	: FCC Part 15.247(d), 15.205, 15.209
Requirement	: ANSI C63.10-2013, KDB 558074
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A
Ambient temperature	: 25°C
Relative humidity	: 52%

Notes:

1. Test plots please refer to the annex document "EXHIBIT A of SHE19110027-01CE".
2. For 9 kHz ~ 30 MHz, the amplitude of spurious emissions that are attenuated by more than 20dB below the permissible. The value has no need to be reported.
3. The spurious above 18GHz is noise only and 20dB below the limit. The value has no need to be reported.
4. The EUT is working in the Normal link mode below 1 GHz.

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4.1.7 Band Edge (Restricted-band band-edge)

RESULT:

PASS

Test standard	: FCC Part 15.247(d), 15.205, 15.209
Requirement	: ANSI C63.10-2013, KDB 558074
Kind of test site	: 3m Semi-Anechoic Chamber

Test setup

Test Channel	: Low/Middle/High
Operation Mode	: A.1
Ambient temperature	: 25°C
Relative humidity	: 52%

Note:

1. Test plots please refer to the annex document "EXHIBIT A of SHE19110027-01CE".

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4.2 Mains Emissions

4.2.1 Conducted Emission on AC Mains

RESULT:

PASS

Test standard	: FCC Part 15.207(a)
Requirement	: ANSI C63.10-2013
Kind of test site	: Shielded room

Test setup

Input Voltage	: AC 120V, 60Hz; AC 240V, 50Hz
Operation Mode	: A
Earthing	: Not Connected
Ambient temperature	: 25°C
Relative humidity	: 52%

For details refer to following test plot.

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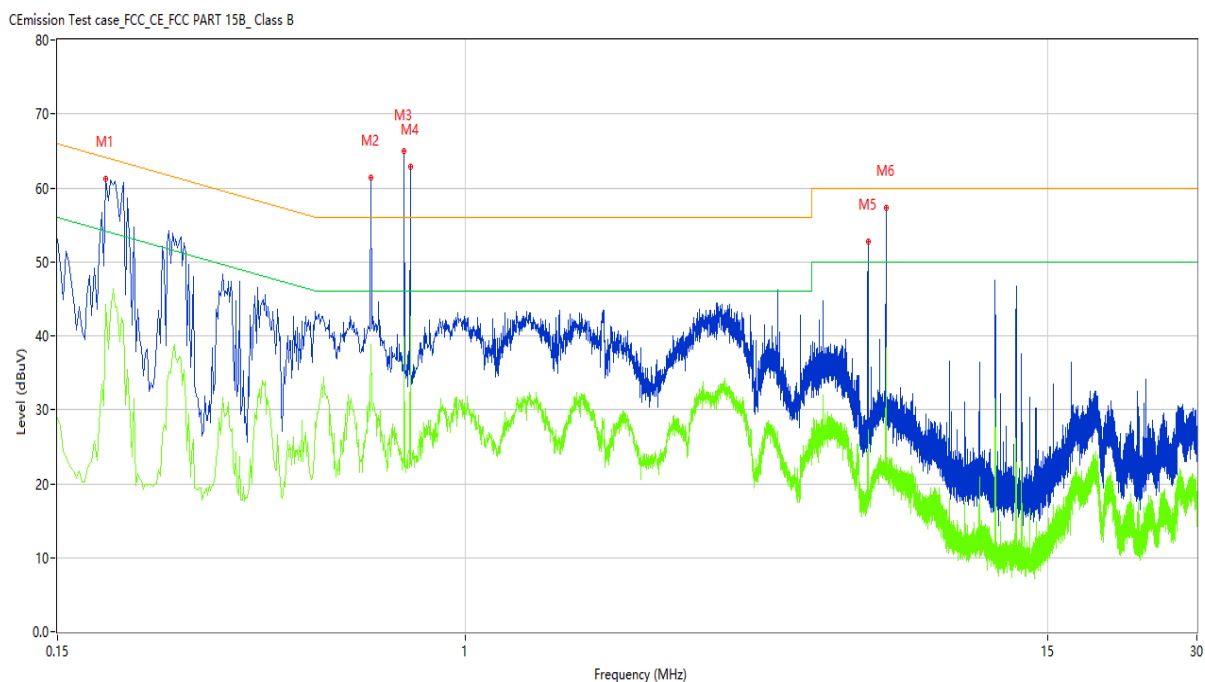
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Note:

The all configurations were tested respectively, but only the worst configuration shown here.

Figure 28: Conducted Emission on AC Mains, L Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.188	61.26	10.15	64.12	-2.86	Peak	N	Pass
1*	0.188	48.79	10.15	64.12	-15.33	QP	N	Pass
1**	0.188	44.29	10.15	54.12	-9.83	AV	N	Pass
2	0.644	61.43	10.15	56.00	5.43	Peak	N	N/A
2*	0.644	46.50	10.15	56.00	-9.50	QP	N	Pass
2**	0.644	38.84	10.15	46.00	-7.16	AV	N	Pass
3	0.752	64.94	10.15	56.00	8.94	Peak	N	N/A
3*	0.752	43.84	10.15	56.00	-12.16	QP	N	Pass
3**	0.752	39.92	10.15	46.00	-6.08	AV	N	Pass
4	0.774	62.89	10.15	56.00	6.89	Peak	N	N/A
4*	0.774	43.11	10.15	56.00	-12.89	QP	N	Pass
4**	0.774	42.55	10.15	46.00	-3.45	AV	N	Pass
5	6.514	52.81	10.30	60.00	-7.19	Peak	N	Pass
5*	6.514	40.82	10.30	60.00	-19.18	QP	N	Pass
5**	6.514	25.03	10.30	50.00	-24.97	AV	N	Pass
6	7.064	57.26	10.31	60.00	-2.74	Peak	N	Pass
6*	7.064	41.30	10.31	60.00	-18.70	QP	N	Pass
6**	7.064	38.39	10.31	50.00	-11.61	AV	N	Pass

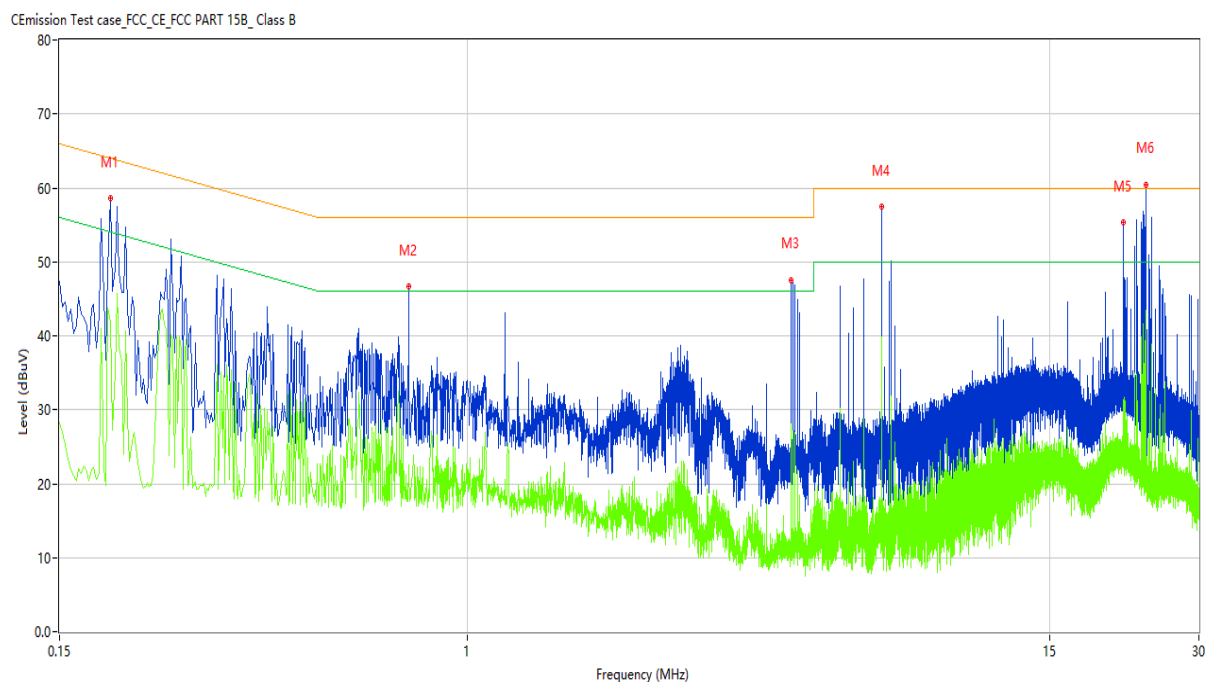
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Figure 29: Conducted Emission on AC Mains, N Phase



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1	0.190	58.58	10.15	64.04	-5.46	Peak	N	Pass
1*	0.190	45.36	10.15	64.04	-18.68	QP	N	Pass
1**	0.190	42.04	10.15	54.04	-12.00	AV	N	Pass
2	0.760	46.65	10.15	56.00	-9.35	Peak	N	Pass
2*	0.760	35.44	10.15	56.00	-20.56	QP	N	Pass
2**	0.760	22.48	10.15	46.00	-23.52	AV	N	Pass
3	4.502	47.58	10.25	56.00	-8.42	Peak	N	Pass
3*	4.502	40.39	10.25	56.00	-15.61	QP	N	Pass
3**	4.502	28.14	10.25	46.00	-17.86	AV	N	Pass
4	6.858	57.48	10.30	60.00	-2.52	Peak	N	Pass
4*	6.858	42.45	10.30	60.00	-17.55	QP	N	Pass
4**	6.858	39.90	10.30	50.00	-10.10	AV	N	Pass
5	21.092	55.28	10.47	60.00	-4.72	Peak	N	Pass
5*	21.092	45.79	10.47	60.00	-14.21	QP	N	Pass
5**	21.092	31.30	10.47	50.00	-18.70	AV	N	Pass
6	23.440	60.36	10.46	60.00	0.36	Peak	N	N/A
6*	23.440	45.61	10.46	60.00	-14.39	QP	N	Pass
6**	23.440	43.50	10.46	50.00	-6.50	AV	N	Pass

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5 Appendixes

5.1 Photographs of the Sample



Front of the sample



Rear of the sample

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5.2 Set-up for Conducted Emissions



5.3 Set-up for Conducted RF test at Antenna Port



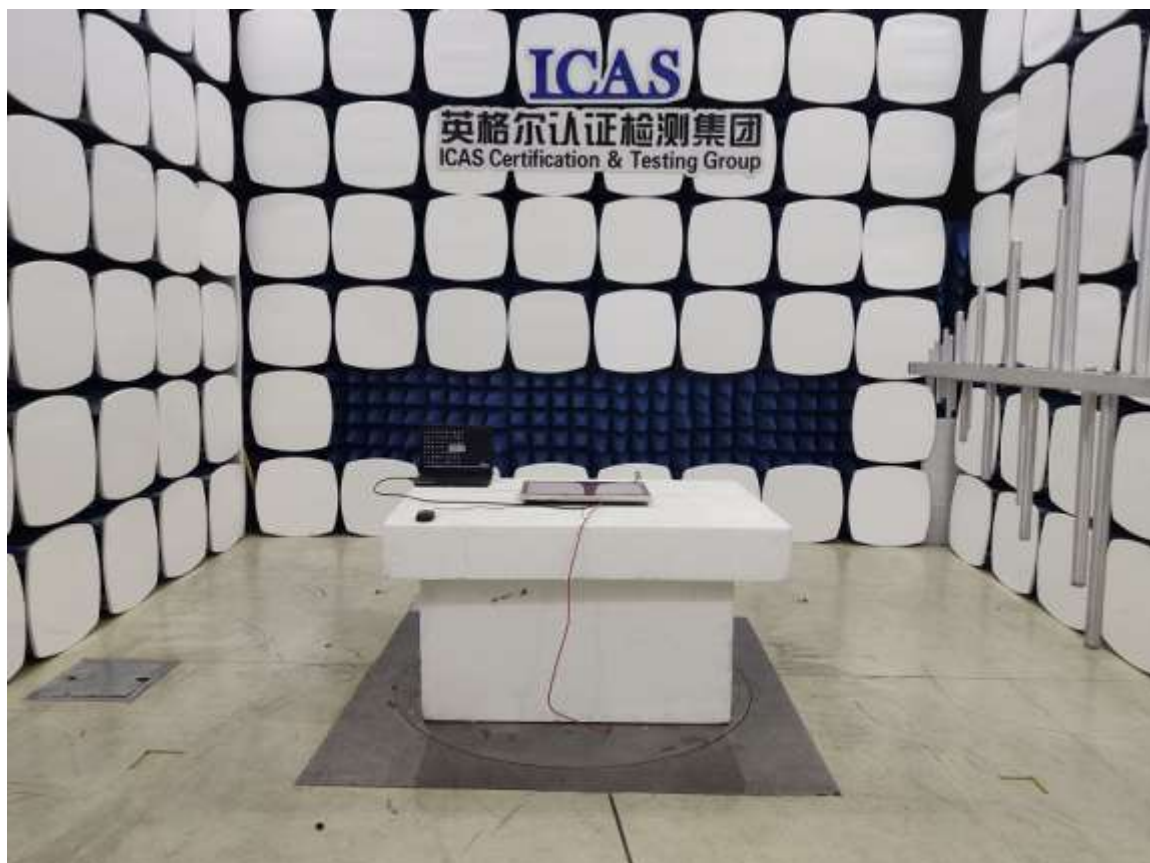
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5.4 Set-up for Spurious Emissions below 1GHz



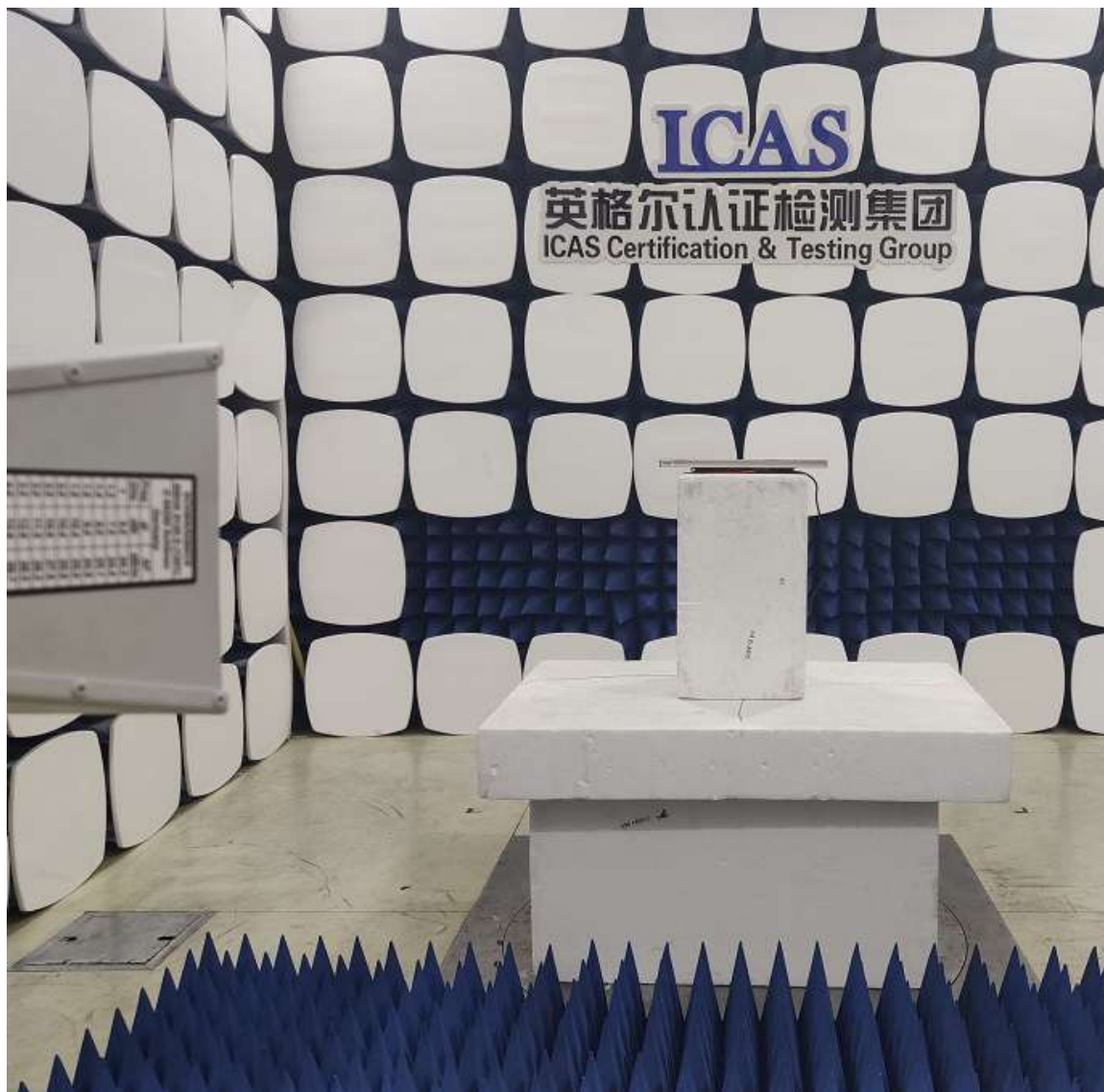
5.5 Set-up for Spurious Emissions above 1GHz

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End of the report