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Report Template Version: V06
Report Template Revision Date: 2026-01-30

TEST REPORT

Report No.:	CQASZ20260701681E-02
Applicant:	DREO PTE. LTD.
Address of Applicant:	1 COLEMAN STREET, #05-05,THE ADELPHI, SINGAPORE 179803
Equipment Under Test (EUT):	
Product:	Smart Tower Fan
Model No.:	DR-HTF013S, DWTF13S
Test Model No.:	DR-HTF013S
Brand Name:	DREO, DREO HOME
FCC ID:	2BPBC-HTF013A
Standards:	47 CFR Part 15, Subpart C
	KDB558074 D01 15.247 Meas Guidance v05r02
	ANSI C63.10:2020
Date of Receipt:	2026-07-30
Date of Test:	2026-07-30 to 2026-09-10
Date of Issue:	2026-9-29
Test Result :	**PASS***

***In the configuration tested, the EUT complied with the standards specified above**

Tested By: Azir Wang

(Azir Wang)

Reviewed By: Timo Lei

(Timo Lei)

Approved By:

(Jack Ai)

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20260701681E-02	Rev.01	Initial report	2026-9-29

Note:

Model No.:DR-HTF013S, DWTF13S

Their electrical circuit design, layout, components used and internal wiring are identical,

Only the model is different.

2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15.203	N/A	PASS
AC Power Line Conducted Emission	47 CFR Part 15.207	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	PASS
Conducted Peak & Average Output Power	47 CFR Part 15.247	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	PASS
6dB Occupied Bandwidth	47 CFR Part 15.247	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	PASS
Power Spectral Density	47 CFR Part 15.247	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15.247	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	PASS
RF Conducted Spurious Emissions	47 CFR Part 15.247	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	PASS
Radiated Spurious Emissions	47 CFR Part 15.209	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15.205/15.209	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024	PASS

Remark:

The tested sample(s) and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application

3 Contents

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4 General Information

4.1 Client Information

Applicant:	DREO PTE. LTD.
Address of Applicant:	1 COLEMAN STREET, #05-05,THE ADELPHI, SINGAPORE 179803
Manufacturer:	DREO PTE. LTD.
Address of Manufacturer:	1 COLEMAN STREET, #05-05,THE ADELPHI, SINGAPORE 179803

4.2 General Description of EUT

Product Name:	Smart Tower Fan
Model No.:	DR-HTF013S, DWTF13S
Test Model No.:	DR-HTF013S
Trade Mark:	DREO, DREO HOME
Software Version:	V9
Hardware Version:	HMJD-FS031K-2
Power Supply:	Power supply AC 120V
EUT Supports Radios application:	2.4GHz: Wi-Fi: 802.11b/g/n(HT20): 2412MHz~2462MHz; Bluetooth: 2402MHz~2482MHz;
Simultaneous Transmission	☐ Simultaneous TX is supported and evaluated in this report. ☒ Simultaneous TX is not supported.

4.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Transfer Rate:	IEEE for 802.11b: 1Mbps/2Mbps/5.5Mbps/11Mbps IEEE for 802.11g : 6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps IEEE for 802.11n(HT20) : 6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps/72.2Mbps
Product Type:	☒ Mobile ☐ Portable ☐ Fix Location
Test Software of EUT:	EspRFTestTool
Antenna Type:	FPC antenna
Antenna Gain:	7.91dBi

Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:
In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

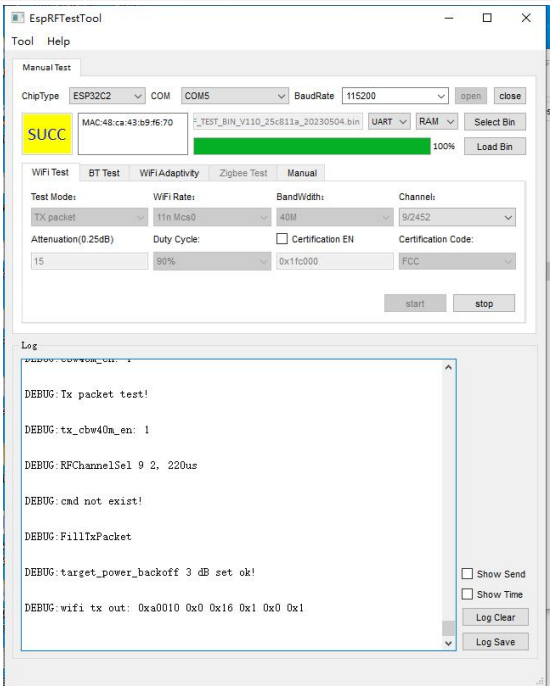
For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

Note:
Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

4.4 Test Environment and Mode

Operating Environment:	
Radiated Emissions:	
Temperature:	25.3 °C
Humidity:	55 % RH
Atmospheric Pressure:	1009 mbar
Conducted Emissions:	
Temperature:	25.6 °C
Humidity:	60 % RH
Atmospheric Pressure:	1009 mbar
Radio conducted item test (RF Conducted test room):	
Temperature:	25.5 °C
Humidity:	52 % RH
Atmospheric Pressure:	1009 mbar
Test mode:	
Transmitting mode:	EUT is set in RF test mode in all supported modulation types, bandwidth and data rate, etc.
EUT Power level:	Class15
Run Software:	



4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
/	/	/	/	/

2) Cable

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	/	/	/	/

4.6 Test Location

All tests were performed at:

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD

102A, 102B, Building 2, Shanghenglang New Industrial Zone, Shanghenglang Community, Dalang Street, Longhua District, Shenzhen, Guangdong, People's Republic of China, 518000

4.7 Test Facility

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

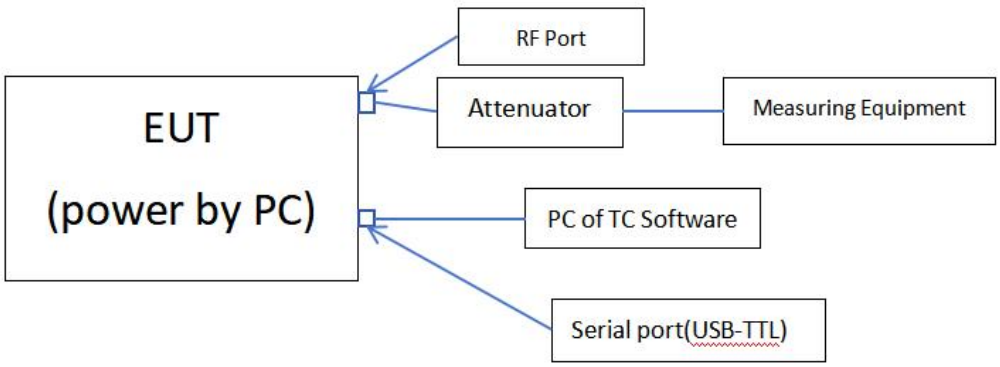
- **A2LA (Certificate No. 4742.01)**

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD, Shenzhen EMC Laboratory is accredited by the
American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

- **FCC Registration No.: 522263**

SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD, Shenzhen 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.:522263

4.8 Test configuration



4.9 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the **SHENZHEN HUAXIA TESTING TECHNOLOGY CO., LTD** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	5.12dB	(1)
2	Radiated Emission (Above 1GHz)	4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	3.34dB	(1)
4	Radio Frequency	3×10^{-8}	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8℃	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	Frequency Error	5.5 Hz	(1)

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.10 Deviation from Standards

None.

4.11 Abnormalities from Standard Conditions

None.

4.12 Other Information Requested by the Customer

None.

4.13 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2026/8/27	2027/8/26
Spectrum analyzer	R&S	FSU26	CQA-038	2026/8/27	2027/8/26
Spectrum analyzer	R&S	FSU40	CQA-075	2026/8/27	2027/8/26
Preamplifier	MITEQ	AFS4-00010300-18-10P-4	CQA-035	2026/8/27	2027/8/26
Preamplifier	MITEQ	AMF-6D-02001800-29-20P	CQA-036	2026/8/27	2027/8/26
Preamplifier	EMCI	EMC184055SE	CQA-089	2026/8/27	2027/8/26
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2026/9/6	2029/8/5
Bilog Antenna	R&S	VULB 9163	CQA-101	2026/8/29	2029/8/28
Horn Antenna	R&S	HF906	CQA-012	2026/8/29	2029/8/28
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2026/8/29	2029/8/28
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2026/8/31	2027/8/30
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2026/8/31	2027/8/30
Antenna Connector	CQA	RFC-01	CQA-080	2026/8/31	2027/8/30
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-0079	2026/8/31	2027/8/30
Power meter	R&S	NRVD	CQA-029	2026/8/31	2027/8/30
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2026/8/31	2027/8/30
LISN	R&S	ENV216	CQA-003	2026/8/27	2027/8/26
Coaxial cable	CQA	N/A	CQA-C009	2026/8/31	2027/8/30
DC power	KEYSIGHT	E3631A	CQA-028	2026/8/31	2027/8/30
Band Reject Filter	Wainwright instrument gmbh	WRCG2400/2483-2390/2493-35/10SS	CQA-037	2026/8/31	2027/8/30

Test software:

	Manufacturer	Software brand	Software version
Radiated Emissions test software	Tonscend	JS1120-3	Version:8
Conducted Emissions test software	Audix	e3	Version:9
RF Conducted test software	Audix	e3	V3.5.39

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
EUT Antenna:	
The antenna is FPC antenna. The connection/connection type between the antenna to the EUT's antenna port is: unique coupling This is either permanently attachment or a unique coupling that satisfies the requirement.	

5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207
Test Method:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Frequency Range:	150kHz to 30MHz
Limit:	

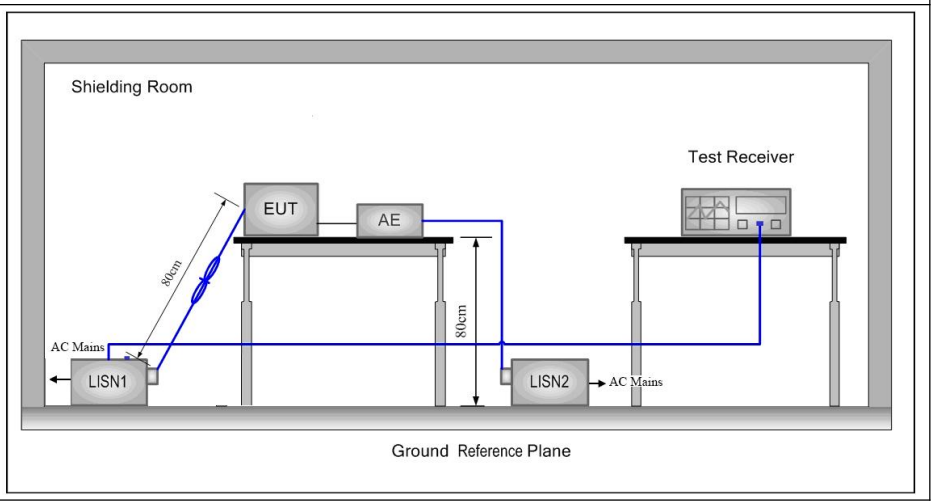
Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

Test Procedure:

1) The mains terminal disturbance voltage test was conducted in a shielded room.
2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2020 on conducted measurement.

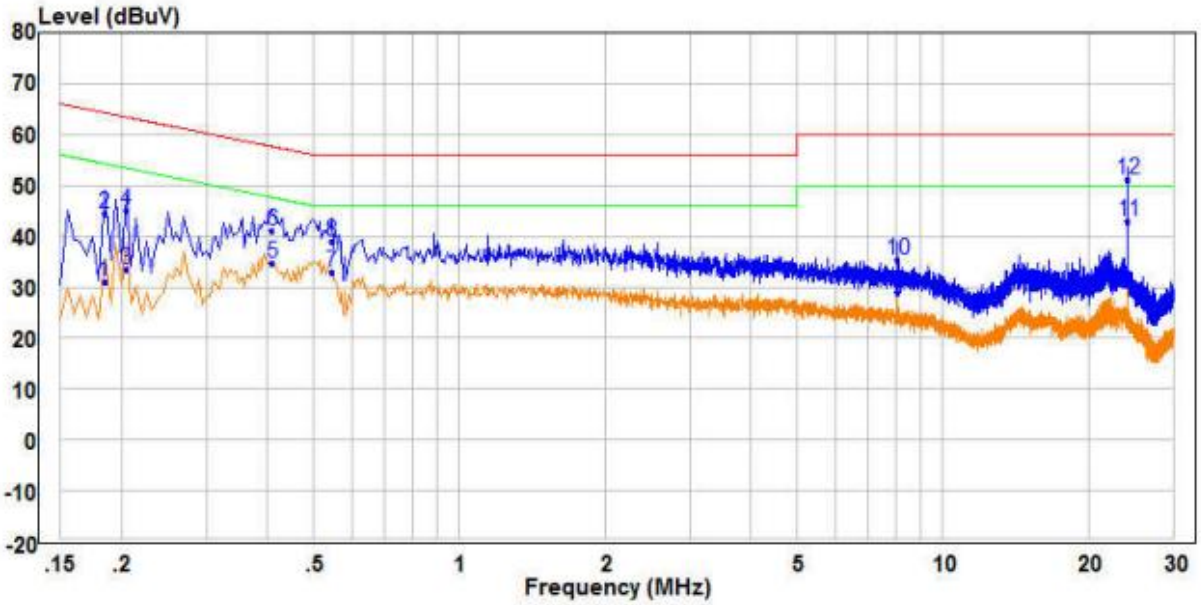
Test Setup:



Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case. Only the worst case is recorded in the report.
Test Voltage:	AC120V/60Hz
Test Results:	Pass

Measurement Data

Live Line:

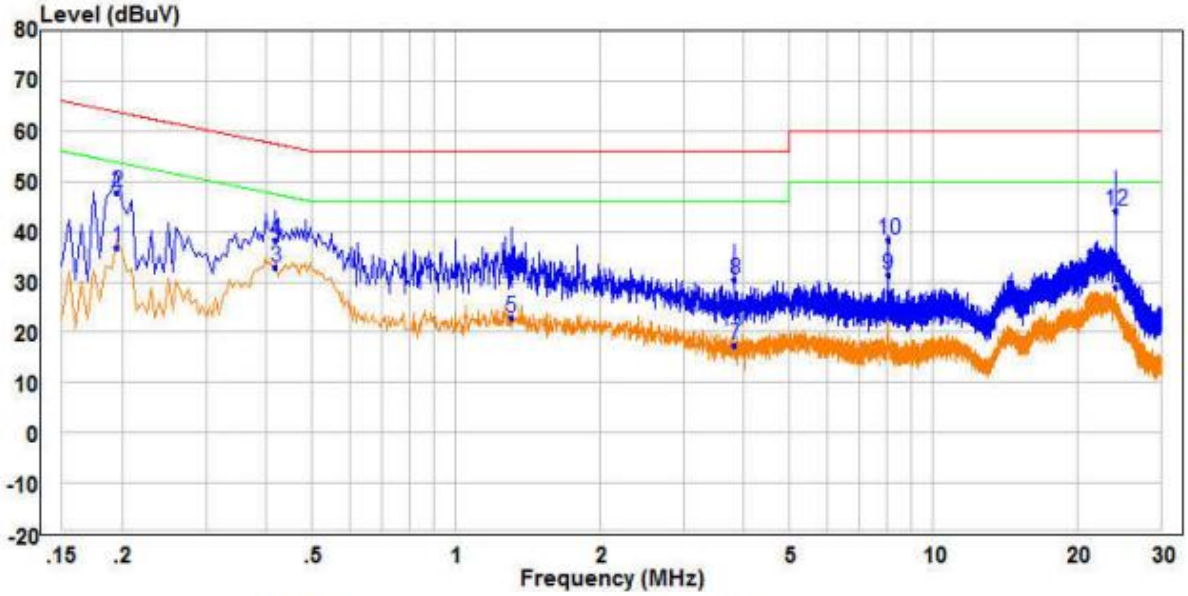


		Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.185	21.32	9.70	31.02	54.26	-23.24	Average	Line
2		0.185	34.85	9.70	44.55	64.26	-19.71	QP	Line
3		0.205	23.78	9.70	33.48	53.41	-19.93	Average	Line
4		0.205	35.27	9.70	44.97	63.41	-18.44	QP	Line
5		0.410	25.07	9.78	34.85	47.65	-12.80	Average	Line
6		0.410	31.25	9.78	41.03	57.65	-16.62	QP	Line
7		0.545	23.20	9.85	33.05	46.00	-12.95	Average	Line
8		0.545	29.23	9.85	39.08	56.00	-16.92	QP	Line
9		8.055	19.04	9.96	29.00	50.00	-21.00	Average	Line
10		8.055	25.28	9.96	35.24	60.00	-24.76	QP	Line
11	PP	24.155	32.24	10.65	42.89	50.00	-7.11	Average	Line
12	QP	24.155	40.47	10.65	51.12	60.00	-8.88	QP	Line

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral Line:

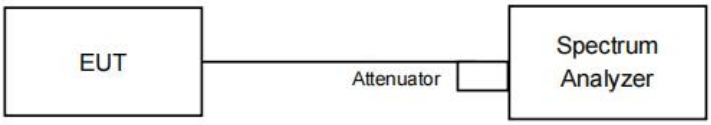


		Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.195	27.06	9.70	36.76	53.82	-17.06	Average	Neutral
2		0.195	37.98	9.70	47.68	63.82	-16.14	QP	Neutral
3	PP	0.420	23.25	9.62	32.87	47.45	-14.58	Average	Neutral
4		0.420	28.76	9.62	38.38	57.45	-19.07	QP	Neutral
5		1.305	13.26	9.68	22.94	46.00	-23.06	Average	Neutral
6		1.305	21.54	9.68	31.22	56.00	-24.78	QP	Neutral
7		3.840	7.53	9.83	17.36	46.00	-28.64	Average	Neutral
8		3.840	20.64	9.83	30.47	56.00	-25.53	QP	Neutral
9		8.050	21.29	9.98	31.27	50.00	-18.73	Average	Neutral
10		8.050	28.33	9.98	38.31	60.00	-21.69	QP	Neutral
11		24.160	18.37	10.55	28.92	50.00	-21.08	Average	Neutral
12	QP	24.160	33.56	10.55	44.11	60.00	-15.89	QP	Neutral

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

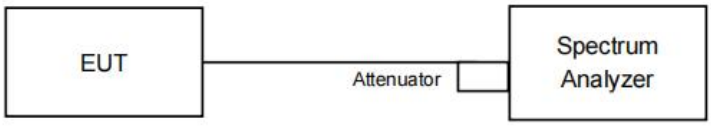
5.3 Conducted Peak & Average Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Setup:	*Setup for Power meter measurement method* *Setup for Spectrum analyser measurement method* 
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	30dBm
Test Results:	Pass

Measurement Data

Please Refer to Appendix for Details

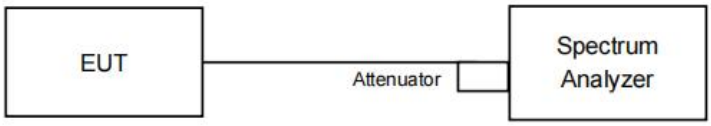
5.4 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C
Test Method:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Test Results:	Pass

Measurement Data

Please Refer to Appendix for Details

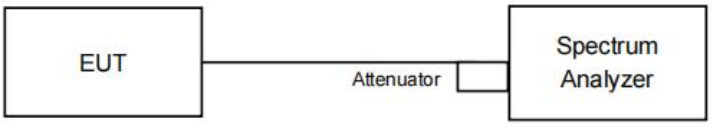
5.5 6dB Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	≥ 500 kHz
Test Results:	Pass

Measurement Data

Please Refer to Appendix for Details

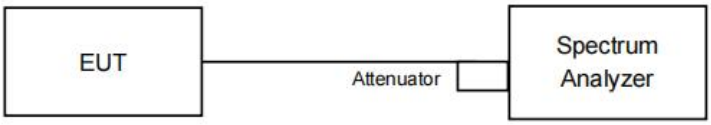
5.6 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	≤8.00dBm/3kHz
Test Results:	Pass

Measurement Data

Please Refer to Appendix for Details

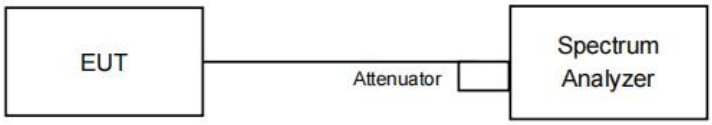
5.7 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
. Final Test Mode:	Only the worst case is recorded in the report.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

Measurement Data

Please Refer to Appendix for Details

5.8 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Setup:	 Offset=cable loss+ attenuation factor
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Only the worst case is recorded in the report.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test Results:	Pass

Measurement Data

Please Refer to Appendix for Details

5.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205
Test Method:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
Above 1GHz	Peak	1MHz	3MHz	Peak
	Peak	1MHz	10Hz	Average

Limit:

Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30
30MHz-88MHz	100	40.0	Quasi-peak	3
88MHz-216MHz	150	43.5	Quasi-peak	3
216MHz-960MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1GHz	500	54.0	Average	3

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

Test Setup:	

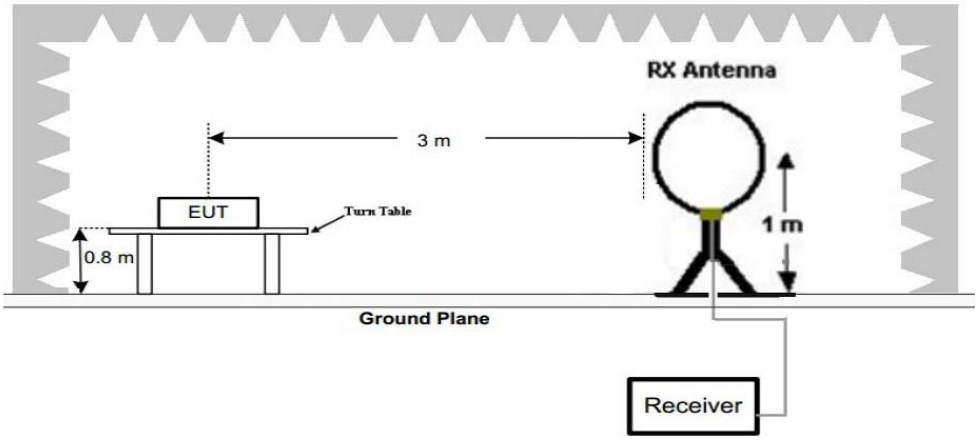


Figure 1. Below 30MHz

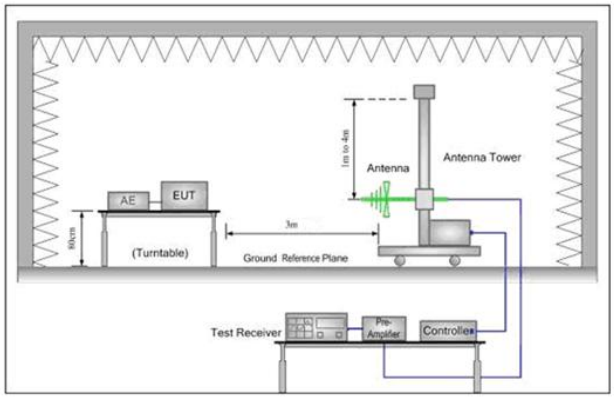


Figure 2. 30MHz to 1GHz

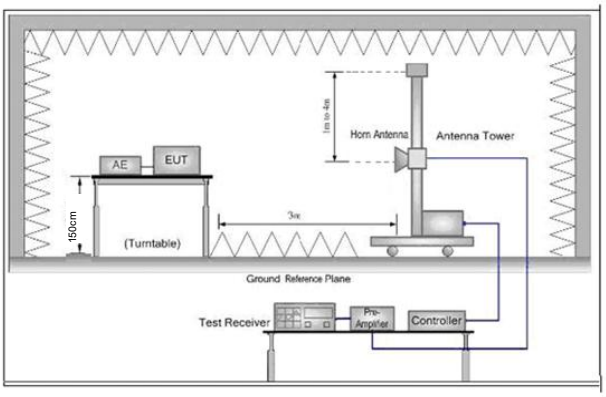


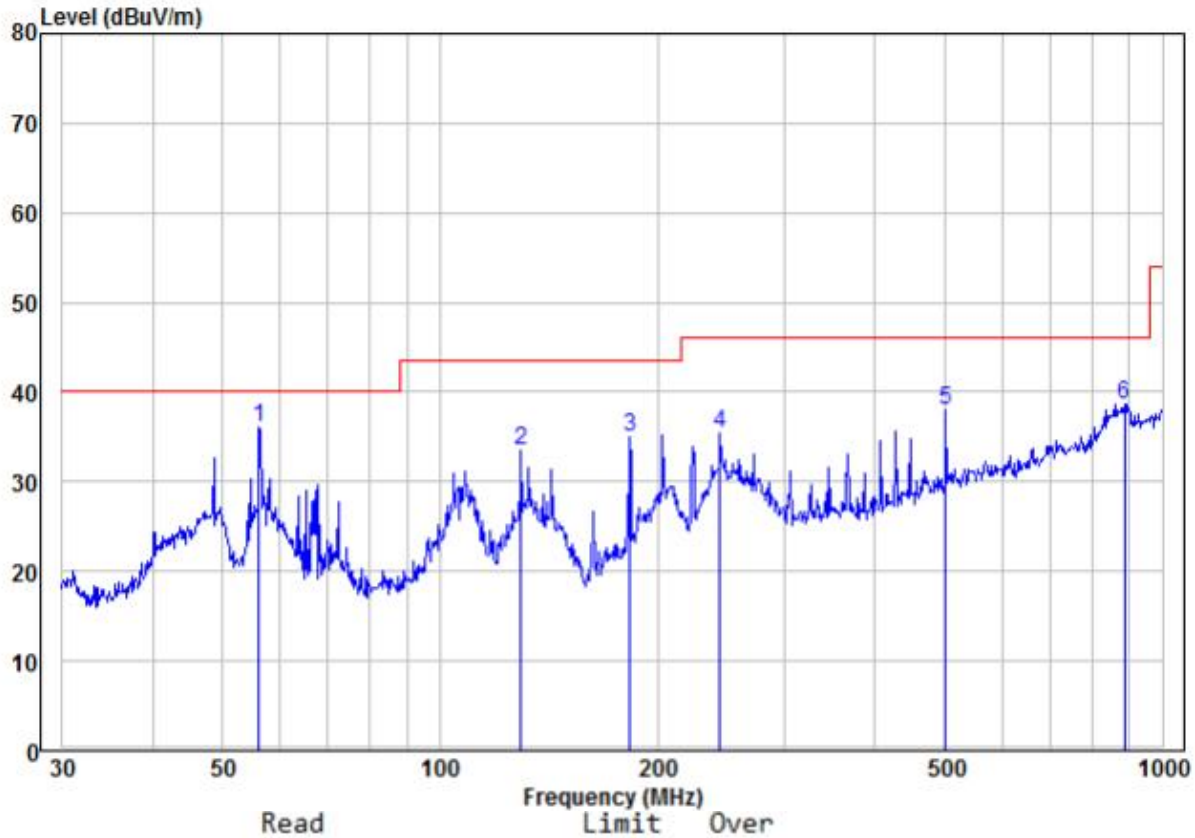
Figure 3. Above 1 GHz

Test Procedure:	a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters(for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case . i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Only the worst case is recorded in the report.
Test Results:	Pass

5.9.1 Radiated emission below 1GHz

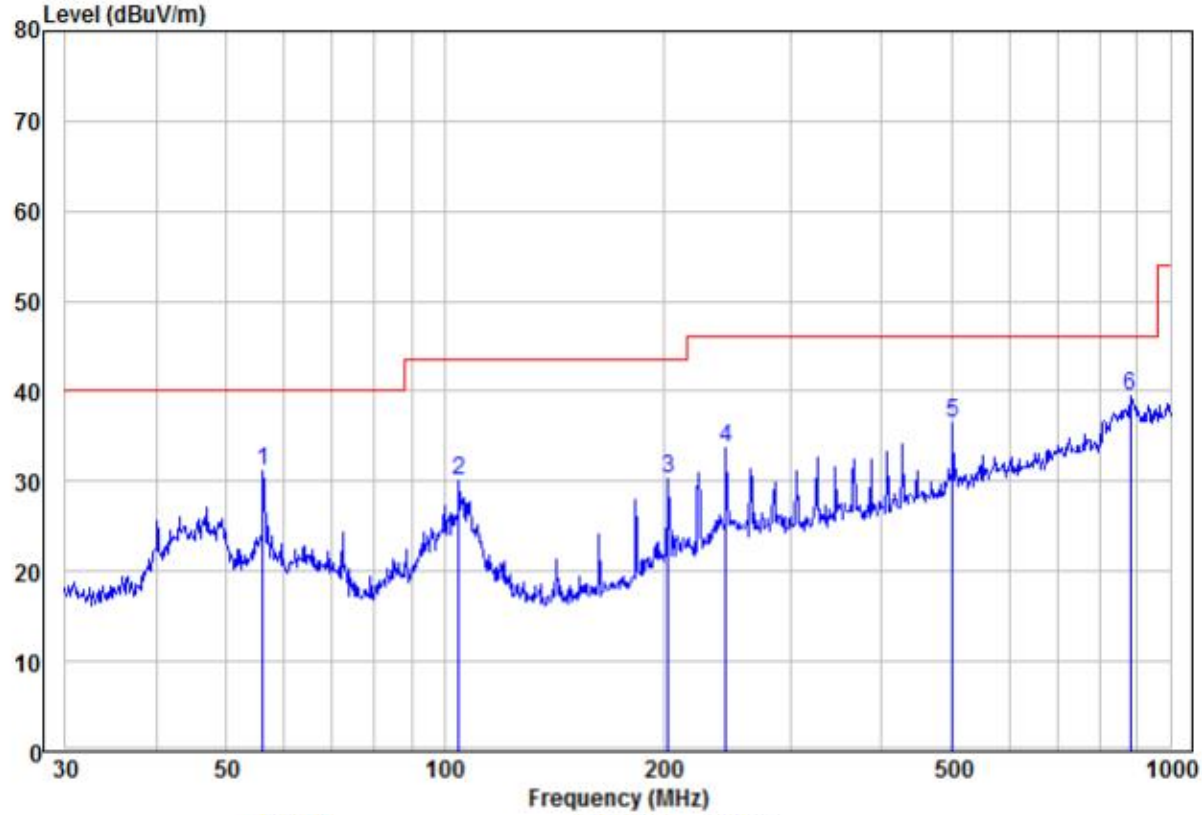
30MHz~1GHz
Vertical



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1 pp	56.20	23.46	12.65	36.11	40.00	-3.89	Peak	VERTICAL
2	129.47	24.69	8.86	33.55	43.50	-9.95	Peak	VERTICAL
3	183.20	24.30	10.65	34.95	43.50	-8.55	Peak	VERTICAL
4	244.23	19.83	15.53	35.36	46.00	-10.64	Peak	VERTICAL
5	501.18	16.96	20.94	37.90	46.00	-8.10	Peak	VERTICAL
6	887.61	9.51	29.09	38.60	46.00	-7.40	Peak	VERTICAL

Remark:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Factor= Antenna Factor + Cable Factor – Preamplifier Factor,
Level = Read Level + Factor,
Over Limit=Level-Limit Line.

Horizontal



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1	56.20	18.57	12.65	31.22	40.00	-8.78	Peak	HORIZONTAL
2	104.54	18.31	11.86	30.17	43.50	-13.33	Peak	HORIZONTAL
3	203.52	17.82	12.42	30.24	43.50	-13.26	Peak	HORIZONTAL
4	244.23	18.19	15.53	33.72	46.00	-12.28	Peak	HORIZONTAL
5	501.18	15.43	20.94	36.37	46.00	-9.63	Peak	HORIZONTAL
6 pp	881.41	10.46	28.99	39.45	46.00	-6.55	Peak	HORIZONTAL

Remark:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Factor= Antenna Factor + Cable Factor – Preamplifier Factor,
Level = Read Level + Factor,
Over Limit=Level-Limit Line.

5.9.2 Transmitter emission above 1GHz

Test mode:		802.11b(1Mbps)		Test channel:		Lowest			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
4824.000	52.87	-4.26	48.61	74	-25.39	peak	H	1.5	48
4824.000	36.63	-4.26	32.37	54	-21.63	AVG	H	1.5	260
7236.000	50.86	1.18	52.04	74	-21.96	peak	H	1.5	28
7236.000	37.95	1.18	39.13	54	-14.87	AVG	H	1.5	20
4824.000	55.49	-4.26	51.23	74	-22.77	peak	V	1.5	346
4824.000	39.12	-4.26	34.86	54	-19.14	AVG	V	1.5	109
7236.000	52.00	1.18	53.18	74	-20.82	peak	V	1.5	182
7236.000	36.66	1.18	37.84	54	-16.16	AVG	V	1.5	110

Test mode:		802.11b(1Mbps)		Test channel:		Middle			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
4874.000	51.29	-4.12	47.17	74	-26.83	peak	H	1.5	159
4874.000	37.96	-4.12	33.84	54	-20.16	AVG	H	1.5	206
7311.000	50.23	1.46	51.69	74	-22.31	peak	H	1.5	129
7311.000	35.91	1.46	37.37	54	-16.63	AVG	H	1.5	234
4874.000	53.26	-4.12	49.14	74	-24.86	peak	V	1.5	97
4874.000	37.41	-4.12	33.29	54	-20.71	AVG	V	1.5	157
7311.000	49.38	1.46	50.84	74	-23.16	peak	V	1.5	185
7311.000	35.84	1.46	37.30	54	-16.70	AVG	V	1.5	125

Test mode:		802.11b(1Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4924.000	52.04	-4.03	48.01	74	-25.99	peak	H	1.5	112
4924.000	38.02	-4.03	33.99	54	-20.01	AVG	H	1.5	319
7386.000	51.24	1.66	52.90	74	-21.10	peak	H	1.5	263
7386.000	37.21	1.66	38.87	54	-15.13	AVG	H	1.5	198
4924.000	53.57	-4.03	49.54	74	-24.46	peak	V	1.5	268
4924.000	38.50	-4.03	34.47	54	-19.53	AVG	V	1.5	201
7386.000	50.67	1.66	52.33	74	-21.67	peak	V	1.5	178
7386.000	36.37	1.66	38.03	54	-15.97	AVG	V	1.5	311

Remark:

1) The 1Mbps of rate of 802.11b is the worst case.
2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
   Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
3) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Test mode:		802.11g(6Mbps)		Test channel:		Lowest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4824.000	53.95	-4.26	49.69	74	-24.31	peak	H	1.5	293
4824.000	37.82	-4.26	33.56	54	-20.44	AVG	H	1.5	165
7236.000	51.93	1.18	53.11	74	-20.89	peak	H	1.5	336
7236.000	37.35	1.18	38.53	54	-15.47	AVG	H	1.5	281
4824.000	55.82	-4.26	51.56	74	-22.44	peak	V	1.5	297
4824.000	39.20	-4.26	34.94	54	-19.06	AVG	V	1.5	64
7236.000	51.44	1.18	52.62	74	-21.38	peak	V	1.5	316
7236.000	36.16	1.18	37.34	54	-16.66	AVG	V	1.5	145

Test mode:		802.11g(6Mbps)		Test channel:		Middle			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4874.000	52.07	-4.12	47.95	74	-26.05	peak	H	1.5	61
4874.000	36.80	-4.12	32.68	54	-21.32	AVG	H	1.5	277
7311.000	49.13	1.46	50.59	74	-23.41	peak	H	1.5	162
7311.000	36.77	1.46	38.23	54	-15.77	AVG	H	1.5	222
4874.000	52.97	-4.12	48.85	74	-25.15	peak	V	1.5	110
4874.000	37.45	-4.12	33.33	54	-20.67	AVG	V	1.5	328
7311.000	49.10	1.46	50.56	74	-23.44	peak	V	1.5	20
7311.000	36.19	1.46	37.65	54	-16.35	AVG	V	1.5	148

Test mode:		802.11g(6Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4924.000	52.24	-4.03	48.21	74	-25.79	peak	H	1.5	233
4924.000	38.10	-4.03	34.07	54	-19.93	AVG	H	1.5	54
7386.000	49.30	1.66	50.96	74	-23.04	peak	H	1.5	276
7386.000	37.36	1.66	39.02	54	-14.98	AVG	H	1.5	186
4924.000	53.58	-4.03	49.55	74	-24.45	peak	V	1.5	190
4924.000	38.00	-4.03	33.97	54	-20.03	AVG	V	1.5	352
7386.000	50.47	1.66	52.13	74	-21.87	peak	V	1.5	41
7386.000	37.11	1.66	38.77	54	-15.23	AVG	V	1.5	349

Remark:

1) The 6Mbps of rate of 802.11g is the worst case.
2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

   Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
3) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

Test mode:		802.11n20(6.5Mbps)		Test channel:		Lowest			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
4824.000	53.97	-4.26	49.71	74	-24.29	peak	H	1.5	265
4824.000	36.83	-4.26	32.57	54	-21.43	AVG	H	1.5	308
7236.000	50.24	1.18	51.42	74	-22.58	peak	H	1.5	47
7236.000	38.12	1.18	39.30	54	-14.70	AVG	H	1.5	280
4824.000	55.22	-4.26	50.96	74	-23.04	peak	V	1.5	161
4824.000	39.92	-4.26	35.66	54	-18.34	AVG	V	1.5	60
7236.000	52.12	1.18	53.30	74	-20.70	peak	V	1.5	134
7236.000	36.65	1.18	37.83	54	-16.17	AVG	V	1.5	321

Test mode:		802.11n20(6.5Mbps)		Test channel:		Middle			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
4874.000	51.97	-4.12	47.85	74	-26.15	peak	H	1.5	267
4874.000	37.20	-4.12	33.08	54	-20.92	AVG	H	1.5	66
7311.000	48.69	1.46	50.15	74	-23.85	peak	H	1.5	70
7311.000	35.03	1.46	36.49	54	-17.51	AVG	H	1.5	6
4874.000	54.10	-4.12	49.98	74	-24.02	peak	V	1.5	42
4874.000	36.16	-4.12	32.04	54	-21.96	AVG	V	1.5	217
7311.000	50.06	1.46	51.52	74	-22.48	peak	V	1.5	270
7311.000	36.32	1.46	37.78	54	-16.22	AVG	V	1.5	355

Test mode:		802.11n20(6.5Mbps)		Test channel:		Highest			
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.	Antenna Height	Table Angle
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)		H/V	(m)	(Degree)
4924.000	51.63	-4.03	47.60	74	-26.40	peak	H	1.5	289
4924.000	38.24	-4.03	34.21	54	-19.79	AVG	H	1.5	121
7386.000	49.63	1.66	51.29	74	-22.71	peak	H	1.5	83
7386.000	37.19	1.66	38.85	54	-15.15	AVG	H	1.5	344
4924.000	54.87	-4.03	50.84	74	-23.16	peak	V	1.5	124
4924.000	37.88	-4.03	33.85	54	-20.15	AVG	V	1.5	329
7386.000	50.56	1.66	52.22	74	-21.78	peak	V	1.5	36
7386.000	36.89	1.66	38.55	54	-15.45	AVG	V	1.5	147

Remark:

1) The MCS0 of rate of 802.11n20 is the worst case.
2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

   Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
3) Scan from 9kHz to 25GHz,The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

5.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205
Test Method:	ANSI C63.10 2020
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)
Limit:	

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
	74.0	Peak Value

Test Setup:

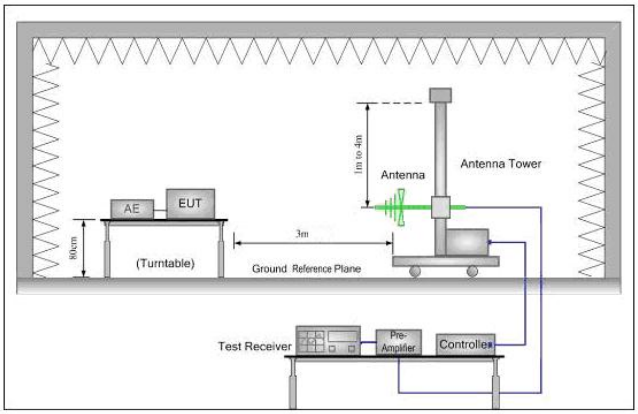


Figure 1. 30MHz to 1GHz

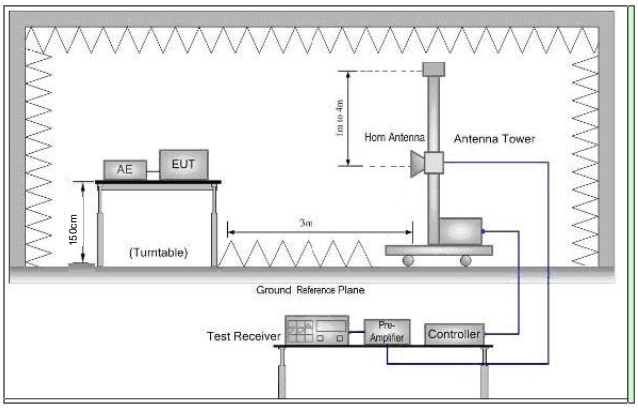


Figure 2. Above 1 GHz

Test Procedure:

a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
Note: For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and

	then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel, the middle channel, the Highest channel. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case . i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Transmitting mode.
Final Test Mode:	Pretest the EUT at Transmitting mode, found the Transmitting mode which it is worse case. Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20). Only the worst case is recorded in the report.
Test Results:	Pass

Test data:

Worse case mode:		802.11b(1Mbps)		Test channel:		Lowest			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
2390.000	58.37	-9.2	49.17	74	-24.83	peak	H	1.5	170
2390.000	44.44	-9.2	35.24	54	-18.76	AVG	H	1.5	163
2400.000	59.61	-9.39	50.22	74	-23.78	peak	H	1.5	250
2400.000	46.74	-9.39	37.35	54	-16.65	AVG	H	1.5	67
2390.000	58.91	-9.2	49.71	74	-24.29	peak	V	1.5	22
2390.000	44.15	-9.2	34.95	54	-19.05	AVG	V	1.5	174
2400.000	60.05	-9.39	50.66	74	-23.34	peak	V	1.5	159
2400.000	46.29	-9.39	36.90	54	-17.10	AVG	V	1.5	355

Worse case mode:		802.11b(1Mbps)		Test channel:		Highest			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
2483.500	57.74	-9.29	48.45	74	-25.55	peak	H	1.5	261
2483.500	44.27	-9.29	34.98	54	-19.02	AVG	H	1.5	94
2483.500	57.57	-9.29	48.28	74	-25.72	peak	V	1.5	181
2483.500	46.07	-9.29	36.78	54	-17.22	AVG	V	1.5	231

Worse case mode:		802.11g(6Mbps)		Test channel:		Lowest			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
2390.000	58.29	-9.2	49.09	74	-24.91	peak	H	1.5	131
2390.000	44.23	-9.2	35.03	54	-18.97	AVG	H	1.5	121
2400.000	59.85	-9.39	50.46	74	-23.54	peak	H	1.5	31
2400.000	46.76	-9.39	37.37	54	-16.63	AVG	H	1.5	225
2390.000	58.89	-9.2	49.69	74	-24.31	peak	V	1.5	68
2390.000	44.26	-9.2	35.06	54	-18.94	AVG	V	1.5	54
2400.000	60.01	-9.39	50.62	74	-23.38	peak	V	1.5	9
2400.000	46.39	-9.39	37.00	54	-17.00	AVG	V	1.5	158

Worse case mode:		802.11g(6Mbps)		Test channel:		Highest			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
2483.500	58.24	-9.29	48.95	74	-25.05	peak	H	1.5	61
2483.500	44.37	-9.29	35.08	54	-18.92	AVG	H	1.5	152
2483.500	58.35	-9.29	49.06	74	-24.94	peak	V	1.5	20
2483.500	46.06	-9.29	36.77	54	-17.23	AVG	V	1.5	52

Worse case mode:		802.11n(HT20)(6.5Mbps)		Test channel:		Lowest			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
2390.000	59.05	-9.2	49.85	74	-24.15	peak	H	1.5	189
2390.000	44.59	-9.2	35.39	54	-18.61	AVG	H	1.5	106
2400.000	59.79	-9.39	50.40	74	-23.60	peak	H	1.5	360
2400.000	46.54	-9.39	37.15	54	-16.85	AVG	H	1.5	155
2390.000	58.67	-9.2	49.47	74	-24.53	peak	V	1.5	245
2390.000	44.25	-9.2	35.05	54	-18.95	AVG	V	1.5	65
2400.000	59.42	-9.39	50.03	74	-23.97	peak	V	1.5	359
2400.000	46.96	-9.39	37.57	54	-16.43	AVG	V	1.5	219

Worse case mode:		802.11n(HT20)(6.5Mbps)		Test channel:		Highest			
Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Over (dB)	Detector Type	Ant. Pol. H/V	Antenna Height (m)	Table Angle (Degree)
2483.500	57.93	-9.29	48.64	74	-25.36	peak	H	1.5	155
2483.500	44.38	-9.29	35.09	54	-18.91	AVG	H	1.5	56
2483.500	57.87	-9.29	48.58	74	-25.42	peak	V	1.5	290
2483.500	45.74	-9.29	36.45	54	-17.55	AVG	V	1.5	41

Note:
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

6 Photographs - EUT Test Setup

Detailed information is given in Appendix A

7 Photographs - EUT Constructional Details

Detailed information is given in Appendix B and Appendix C

*** END OF REPORT ***