

TEST REPORT

Reference No. : WTF25D02039207W005
FCC ID..... : 2BNVO-LX1
Applicant..... : iVolve Pty Ltd
Address : West Village Greenhouse, Level 7, 97 Boundary Street, West End
QLD 4101, Australia
Manufacturer : iVolve Pty Ltd
Address : West Village Greenhouse, Level 7, 97 Boundary Street, West End
QLD 4101, Australia
Product..... : iVolve Edge Router
Model(s)..... : Nexis LX1
Standards..... : CFR47 FCC Part 15 E Section 15.407
Date of Receipt Sample : 2025-04-22
Date of Test..... : 2025-06-04 to 2025-07-11
Date of Issue : 2025-12-18
Test Result : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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The logo is a circular blue stamp. The outer ring contains the text 'WALTEK TESTING GROUP CO., LTD.' and the inner circle contains 'WALTEK' with a stylized 'W' and 'T' symbol.

Deval Qin / Designated Reviewer

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3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTF25D02039207W005	2025-04-22	2025-06-04 to 2025-07-11	2025-12-18	Original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	iVolve Edge Router
Model(s):	Nexis LX1
Model Description:	N/A
Test Sample No.:	1-1/1
Wi-Fi Specification:	5G-802.11a/n(HT20/40)
Hardware Version:	A
Software Version:	2023.08-782

4.2 Details of E.U.T.

Operation Frequency:	802.11a/n(HT20): U-NII-1: 5180-5240MHz, U-NII-2A: 5260-5320MHz(DFS), U-NII-2C: 5500-5700MHz(DFS), U-NII-3: 5745-5825MHz 802.11n(HT40): U-NII-1: 5190-5230MHz, U-NII-2A: 5270-5310MHz(DFS), U-NII-2C: 5510-5670MHz(DFS), U-NII-3: 5755-5795MHz
Conducted output power:	Ant. 1: U-NII-1: 16.60dBm U-NII-2A: 16.86dBm U-NII-2C: 17.50dBm U-NII-3: 17.87dBm Ant. 2: U-NII-1: 16.98dBm U-NII-2A: 17.20dBm U-NII-2C: 18.44dBm U-NII-3: 17.88dBm
Type of Modulation:	802.11a/n: OFDM (BPSK / QPSK / 16QAM / 64QAM)
Antenna installation:	External Antenna
Antenna Gain:	U-NII-1: 6dBi U-NII-2A: 6dBi U-NII-2C: 6dBi U-NII-3: 6dBi
Ratings:	DC12V or DC 24V
DFS Function:	Not support
TPC Function:	Not support

4.3 Channel List

U-NII-1 (5.15-5.25GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
36	5180	38	5190
40	5200	42	5210
44	5220	46	5230
48	5240		

U-NII-2A (5.25-5.35GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
52	5260	54	5270
56	5280	58	5290
60	5300	62	5310
64	5320		

U-NII-2C (5.47-5.725GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
100	5500	102	5510
104	5520	106	5530
108	5540	110	5550
112	5560	116	5580
118	5590	120	5600
122	5610	124	5620
126	5630	128	5640
132	5660	134	5670
136	5680	140	5700

U-NII-3 (5.725-5.85GHz)			
channel	Frequency(MHz)	channel	Frequency(MHz)
149	5745	151	5755
153	5765	155	5775
157	5785	159	5795
161	5805	165	5825

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 802.11a/n(HT20):

channel	Frequency(MHz)	channel	Frequency(MHz)
36	5180	40	5200
48	5240		

channel	Frequency(MHz)	channel	Frequency(MHz)
52	5260	56	5280
64	5320		

channel	Frequency(MHz)	channel	Frequency(MHz)
100	5500	120	5600
140	5700		

channel	Frequency(MHz)	channel	Frequency(MHz)
149	5745	157	5785
165	5825		

For 802.11n(HT40):

channel	Frequency(MHz)	channel	Frequency(MHz)
38	5190	46	5230

channel	Frequency(MHz)	channel	Frequency(MHz)
54	5270	62	5310

channel	Frequency(MHz)	channel	Frequency(MHz)
102	5510	110	5550
134	5670		

channel	Frequency(MHz)	channel	Frequency(MHz)
151	5755	159	5795

4.4 Test Mode Description

During testing, Channel and Power Controlling Software provided by the applicant was used to control the operating channel as well as the maximum output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final-end product.

Test Items	Mode	Data Rate	TX/RX
Radiated Emissions	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
Duty Cycle	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
Band Edge	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
6dB Bandwidth	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
26dB Bandwidth and 99% Occupied Bandwidth	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
Conducted Output Power	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
Power Spectral Density	802.11a(HT20)	6 Mbps	TX
	802.11n(HT20/40)	MCS0	TX
Frequency Stability	Un-modulation	/	TX

4.5 Test Facility

The test facility has a test site registered with the following organizations:

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Testing Group Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

Waltek Testing Group Co., Ltd. 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 number 523476, September 10, 2019.

4.6 Subcontracted

Whether parts of tests for the product have been subcontracted to other labs:

☐ Yes ☒ No

If Yes, list the related test items and lab information:

Test Lab: N/A

Lab address: N/A

Test items: N/A

4.7 Abnormalities from Standard Conditions

None.

5 Equipment Used during Test

5.1 Equipments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date	Calibration Due Date
Conducted Emissions 1#						
1	EMI Test Receiver	R&S	ESCI	100947	2024-07-18	2025-07-17
2	LISN	R&S	ENV216	100115	2024-07-18	2025-07-17
3	Cable	Top	TYPE16(3.5M)	-	2024-07-18	2025-07-17
3m Semi-anechoic Chamber for Radiation Emissions 1#						
1	Spectrum Analyzer	R&S	FSP30	100091	2025-04-19	2026-04-18
2	Amplifier	Agilent	8447D	2944A10178	2024-07-18	2025-07-17
3	Tri-log Broadband Antenna	SCHWARZBECK	VULB9163	336	2024-07-21	2025-07-20
4	Coaxial Cable	Top	TYPE16(13M)	-	2025-04-19	2026-04-18
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120D	667	2025-01-17	2026-01-16
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2024-07-18	2025-07-17
7	Broadband Preamplifier	COMPLIANCE	PAP-1G18	2004	2024-07-18	2025-07-17
8	Coaxial Cable	Top	ZT26-NJ-NJ-8M/FA	-	2025-04-19	2026-04-18
9	Microwave Amplifier	SCHWARZBECK	BBV 9721	100472	2024-07-18	2025-07-17
10	Coaxial Cable	Top	ZT40-2.92J-2.92J-2.0M	17100919	2025-04-19	2026-04-18
3m Semi-anechoic Chamber for Radiation Emissions 2#						
1	Test Receiver	R&S	ESCI	101296	2025-04-19	2026-04-18
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2024-11-04	2025-11-03
3	Active Loop Antenna	Com-Power	AL-130R	10160007	2025-04-21	2026-04-20
4	Amplifier	ANRITSU	MH648A	M43381	2025-04-19	2026-04-18
5	Cable	HUBER+SUHNER	CBL2	525178	2025-04-19	2026-04-18

Test Software:

Test Item	Software name	Software version
Conduction disturbance Radiated Emission(3m)	EZ-EMC	EZ-EMC(RA-03A1-1)

5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

5.3 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
Radiated Spurious Emissions test	± 5.03 dB (30M~1000MHz)
	± 5.47 dB (1000M~25000MHz)
Conducted Spurious Emissions test	± 3.64 dB (AC mains 150KHz~30MHz)

5.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R. China.

6 Test Summary

Test Items	Test Requirement	Result
Conducted Emissions	15.207(a) 15.407(b)(9)	PASS
Radiated Emissions	15.407(b) (9) 15.205(a) 15.209(a)	PASS
Duty Cycle	KDB 789033	PASS*
6dB Bandwidth	15.407(e)	PASS*
26 dB Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	PASS*
Maximum Conducted Output Power	15.407(a)	PASS*
Power Spectral Density	15.407(a)(i)	PASS*
Restricted bands around fundamental frequency	15.407(b)	PASS*
Frequency stability	15.407(g)	PASS*
Antenna Requirement	15.203	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS
*: The test result refer to the Report No.: FR4O0971D, FR4O0971E (FCC ID: Z64-WL18DBMOD).		

7 Conducted Emission

Test Requirement: 47CFR FCC Part15 Subpart C §15.207

Test Method: ANSI C63.10-2020

Test Result: PASS

Frequency Range: 150kHz to 30MHz

Limit:

Frequency (MHz)	Conducted Limit (dB μ V)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

*Decreases with the logarithm of the frequency.

7.1 E.U.T. Operation

Operating Environment:

Temperature: 26.2°C

Humidity: 57.2%RH

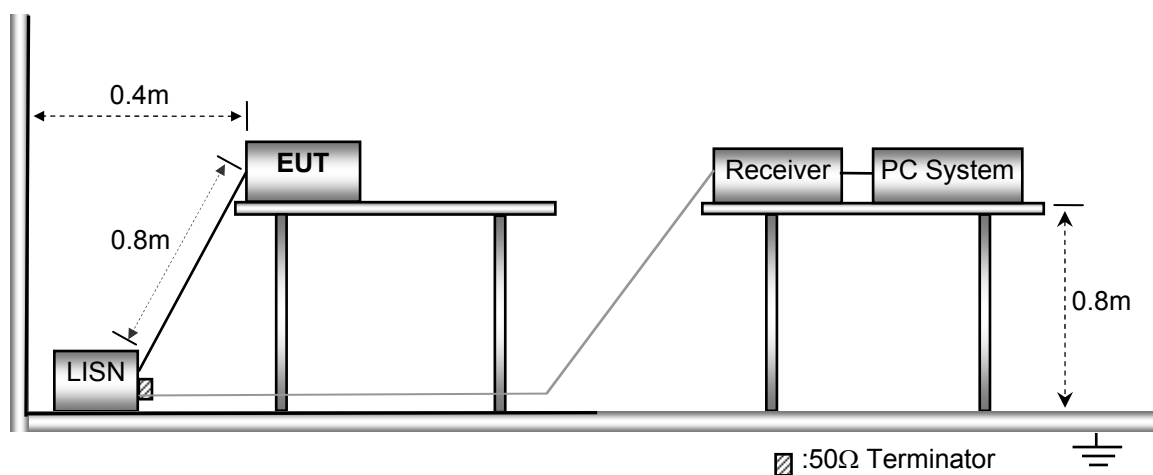
Atmospheric Pressure: 101.1kPa

EUT Operation:

The test was performed in Transmitting mode, the worst test data were shown in the report.

7.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10-2020.



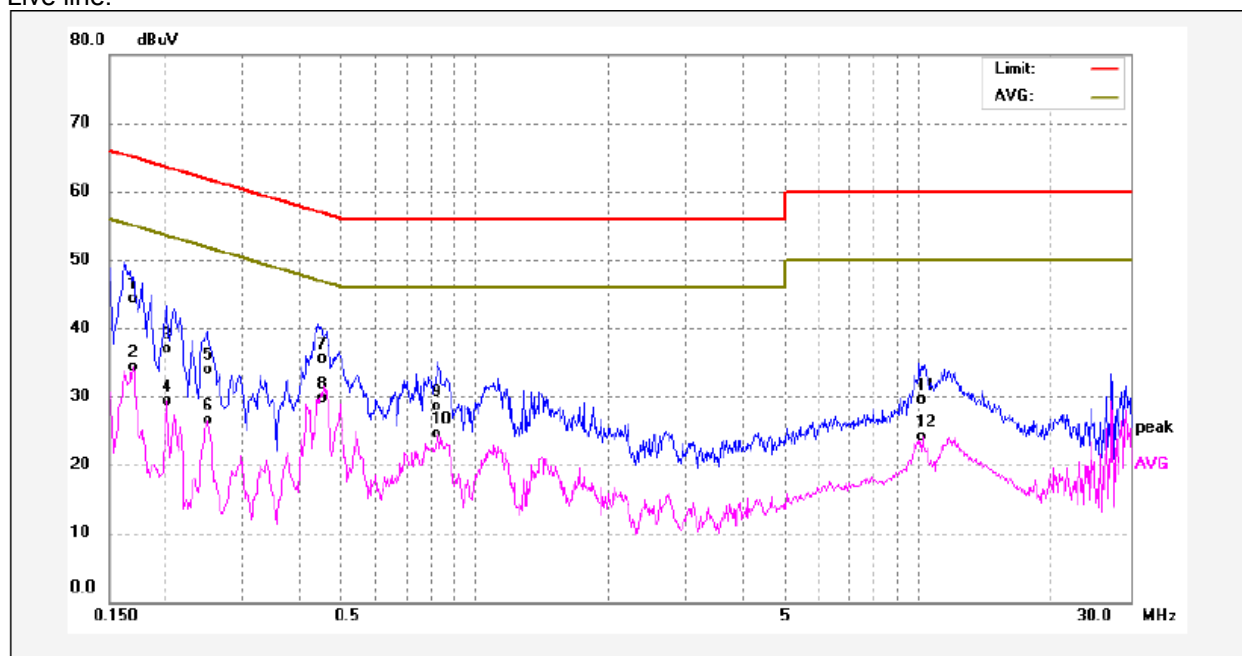
7.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

7.4 Conducted Emission Test Result

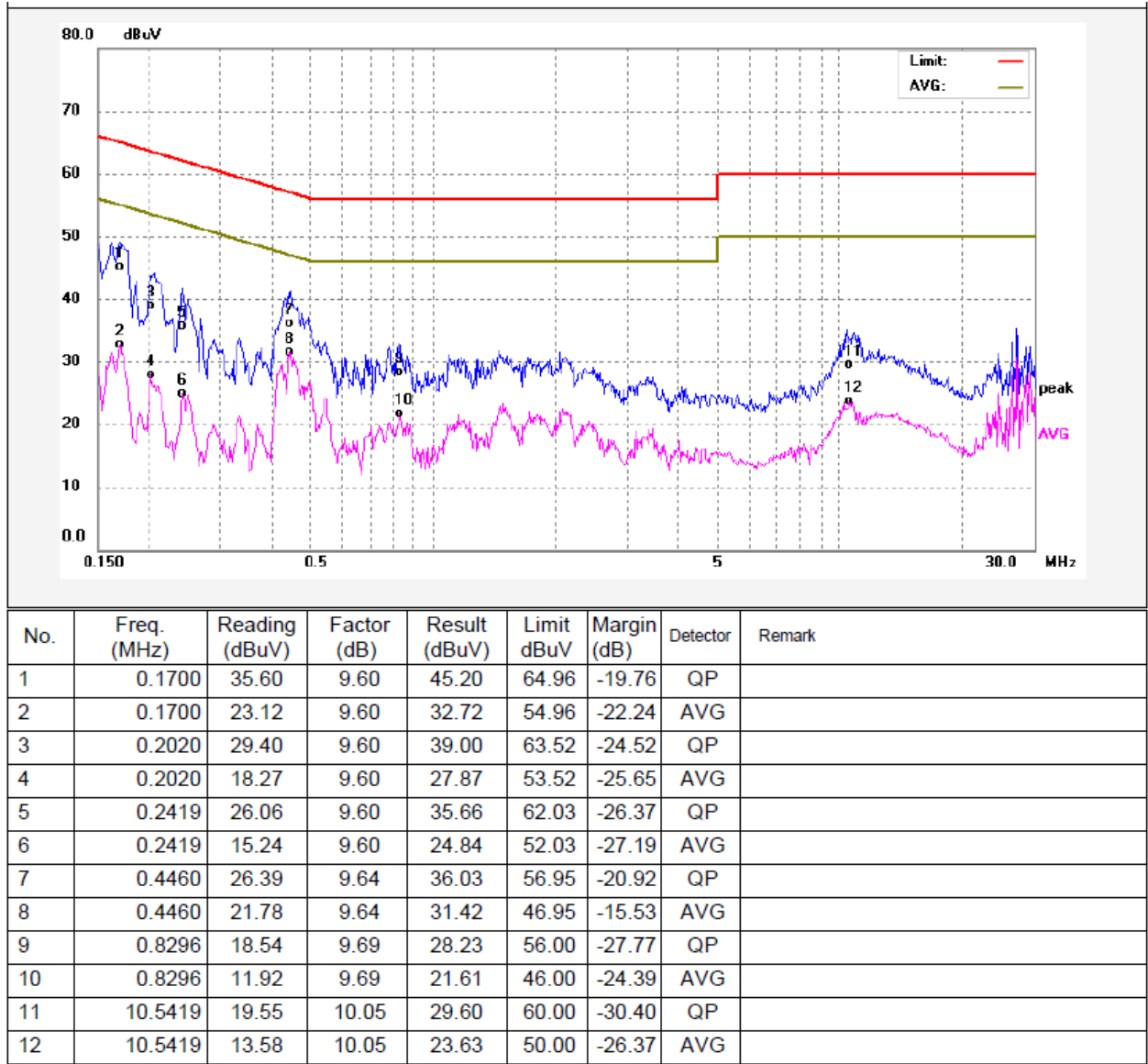
Remark: An initial pre-scan was performed on the live and neutral lines, only the worst data (U-NII-1 802.11n(HT20) mode High channel mode) were reported.

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1700	34.68	9.57	44.25	64.96	-20.71	QP	
2	0.1700	24.65	9.57	34.22	54.96	-20.74	AVG	
3	0.2020	27.41	9.57	36.98	63.52	-26.54	QP	
4	0.2020	19.68	9.57	29.25	53.52	-24.27	AVG	
5	0.2500	24.41	9.59	34.00	61.75	-27.75	QP	
6	0.2500	16.90	9.59	26.49	51.75	-25.26	AVG	
7	0.4515	25.95	9.63	35.58	56.85	-21.27	QP	
8	0.4515	20.08	9.63	29.71	46.85	-17.14	AVG	
9	0.8296	18.82	9.68	28.50	56.00	-27.50	QP	
10	0.8296	14.75	9.68	24.43	46.00	-21.57	AVG	
11	10.1897	19.58	10.02	29.60	60.00	-30.40	QP	
12	10.1897	14.02	10.02	24.04	50.00	-25.96	AVG	

Neutral line:



8 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.407
KDB 662911 D01 Multiple Transmitter Output v02r01, October 31, 2013

Test Method: ANSI C63.10-2020

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Distance	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	2400/F(kHz)	300	10000 * 2400/F(kHz)	$20\log^{(2400/F(kHz))} + 80$
0.490 ~ 1.705	24000/F(kHz)	30	100 * 24000/F(kHz)	$20\log^{(24000/F(kHz))} + 40$
1.705 ~ 30	30	30	100 * 30	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

8.1 EUT Operation

Operating Environment:

Temperature: 25.1 °C

Humidity: 52.8 % RH

Atmospheric Pressure: 101.0kPa

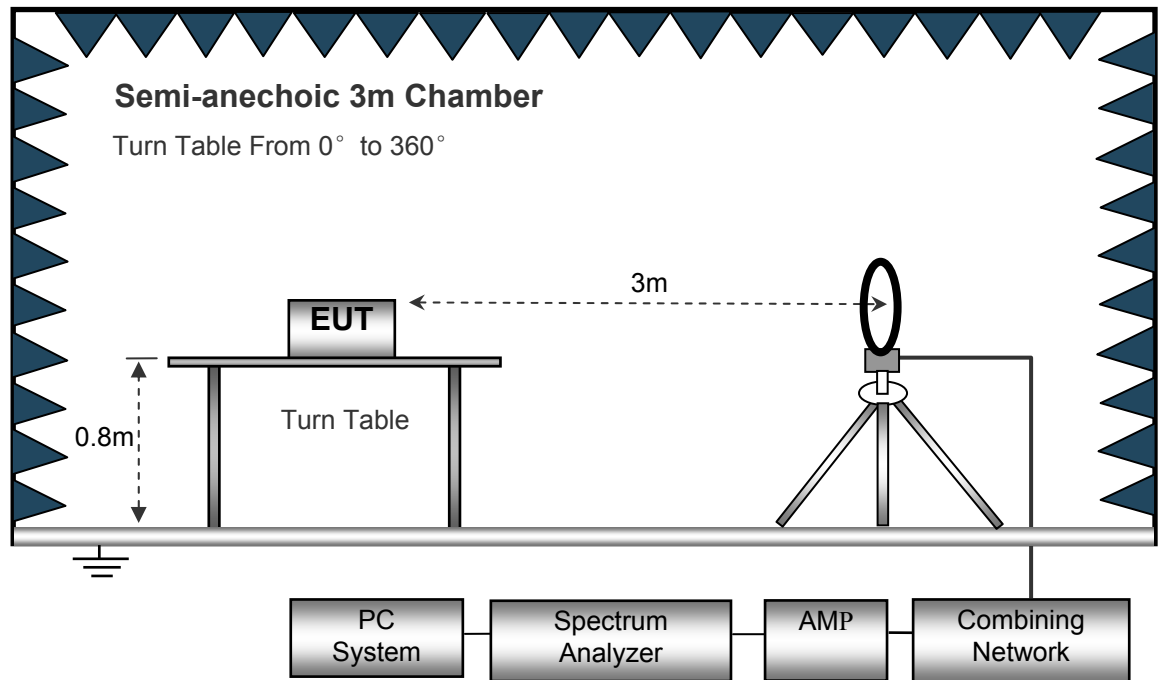
EUT Operation:

The test was performed in transmitting mode, the test data were shown in the report.

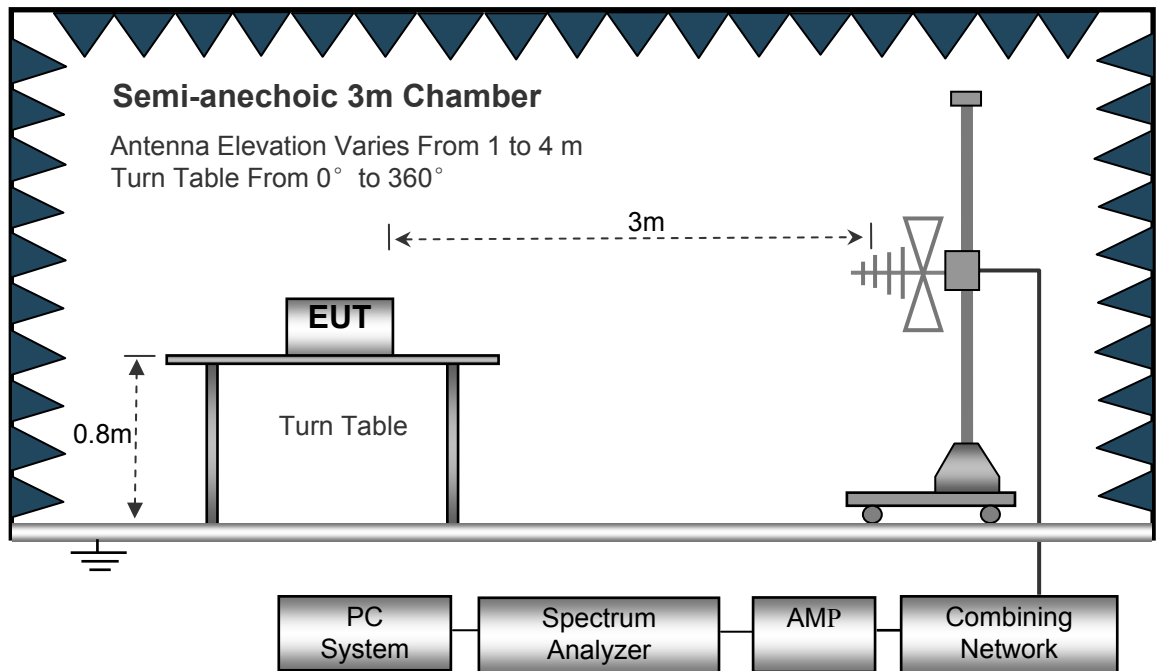
8.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10-2020.

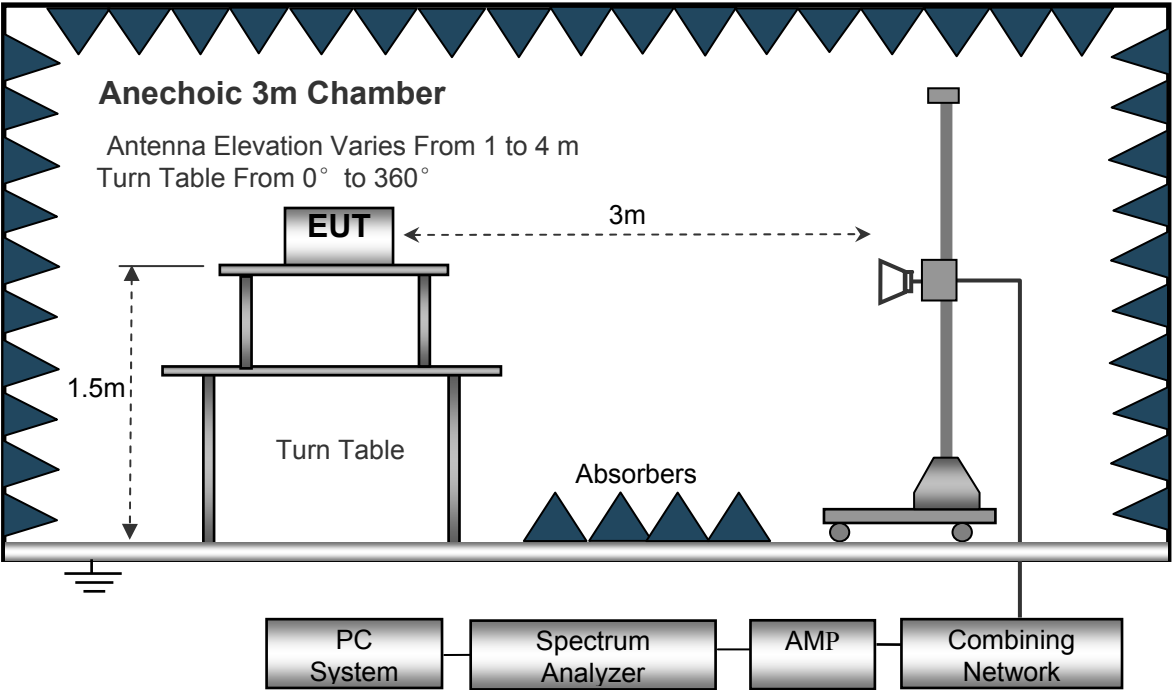
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



8.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed Auto
IF Bandwidth.....10kHz
Video Bandwidth.....10kHz
Resolution Bandwidth.....10kHz

30MHz ~ 1GHz

Sweep Speed Auto
Detector PK
Resolution Bandwidth.....100kHz
Video Bandwidth.....300kHz

Above 1GHz

Sweep Speed Auto
Detector PK
Resolution Bandwidth.....1MHz
Video Bandwidth.....3MHz
Detector Ave.
Resolution Bandwidth.....1MHz
Video Bandwidth.....10Hz

8.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X, Y and Z axis positioning (X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), the worst condition was tested putting the eut in X axis, so the worst data were shown as follow.
8. A 2.4GHz high -pass filter is used during radiated emissions above 1GHz measurement.

8.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

8.6 Summary of Test Results

Note:

All test modes were tested, and only the worst-case TX (Ant. 1+ Ant. 2) mode were record in the report.

Test Frequency: 9kHz~30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency: 30MHz ~ 18GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-1 Low Channel 5180MHz									
208.75	46.93	QP	264	1.5	H	-11.62	35.31	43.50	-8.19
208.75	43.56	QP	340	1.7	V	-11.62	31.94	43.50	-11.56
4524.45	58.58	PK	44	1.7	H	-2.03	56.55	74.00	-17.45
4524.45	44.28	Ave	44	1.7	H	-2.03	42.25	54.00	-11.75
5120.06	49.73	PK	55	1.5	H	-1.02	48.71	74.00	-25.29
5120.06	39.62	Ave	55	1.5	H	-1.02	38.60	54.00	-15.40
10360.00	41.17	PK	313	1.9	H	5.33	46.50	74.00	-27.50
10360.00	29.80	Ave	313	1.9	H	5.33	35.13	54.00	-18.87
802.11a U-NII-1 Middle channel 5200MHz									
208.75	46.08	QP	299	1.4	H	-11.62	34.46	43.50	-9.04
208.75	43.14	QP	159	2.0	V	-11.62	31.52	43.50	-11.98
4508.95	58.22	PK	140	1.8	H	-1.94	56.28	74.00	-17.72
4508.95	43.24	Ave	140	1.8	H	-1.94	41.30	54.00	-12.70
5143.60	49.92	PK	116	1.3	H	-1.06	48.86	74.00	-25.14
5143.60	39.38	Ave	116	1.3	H	-1.06	38.32	54.00	-15.68
10400.00	40.02	PK	212	1.3	H	5.21	45.23	74.00	-28.77
10400.00	29.30	Ave	212	1.3	H	5.21	34.51	54.00	-19.49
802.11a U-NII-1 High channel 5240MHz									
208.75	44.65	QP	162	1.4	H	-11.62	33.03	43.50	-10.47
208.75	42.06	QP	123	1.4	V	-11.62	30.44	43.50	-13.06
4501.72	57.36	PK	9	1.1	H	-2.24	55.12	74.00	-18.88
4501.72	42.73	Ave	9	1.1	H	-2.24	40.49	54.00	-13.51
5149.61	49.29	PK	347	1.5	H	-1.09	48.20	74.00	-25.80
5149.61	39.54	Ave	347	1.5	H	-1.09	38.45	54.00	-15.55
10480.00	40.34	PK	45	1.1	H	5.14	45.48	74.00	-28.52
10480.00	29.60	Ave	45	1.1	H	5.14	34.74	54.00	-19.26

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-2A Low Channel 5260MHz									
208.75	45.13	QP	208	2.0	H	-11.62	33.51	43.50	-9.99
208.75	42.39	QP	107	1.8	V	-11.62	30.77	43.50	-12.73
4528.52	54.86	PK	218	1.9	H	-2.03	52.83	74.00	-21.17
4528.52	40.69	Ave	218	1.9	H	-2.03	38.66	54.00	-15.34
5121.79	52.81	PK	126	1.4	H	-1.02	51.79	74.00	-22.21
5121.79	38.32	Ave	126	1.4	H	-1.02	37.30	54.00	-16.70
10520.00	41.41	PK	58	1.4	H	5.33	46.74	74.00	-27.26
10520.00	33.21	Ave	58	1.4	H	5.33	38.54	54.00	-15.46
802.11a U-NII-2A Middle channel 5280MHz									
208.75	44.10	QP	53	1.9	H	-11.62	32.48	43.50	-11.02
208.75	41.39	QP	94	1.5	V	-11.62	29.77	43.50	-13.73
4505.40	53.69	PK	74	1.2	H	-1.94	51.75	74.00	-22.25
4505.40	39.29	Ave	74	1.2	H	-1.94	37.35	54.00	-16.65
5121.00	53.00	PK	227	1.6	H	-1.06	51.94	74.00	-22.06
5121.00	37.39	Ave	227	1.6	H	-1.06	36.33	54.00	-17.67
10560.00	40.15	PK	53	1.5	H	5.21	45.36	74.00	-28.64
10560.00	31.71	Ave	53	1.5	H	5.21	36.92	54.00	-17.08
802.11a U-NII-2A High channel 5320MHz									
208.75	42.66	QP	228	1.7	H	-11.62	31.04	43.50	-12.46
208.75	40.83	QP	288	1.9	V	-11.62	29.21	43.50	-14.29
4538.48	52.48	PK	177	1.8	H	-2.24	50.24	74.00	-23.76
4538.48	38.89	Ave	177	1.8	H	-2.24	36.65	54.00	-17.35
5147.42	53.20	PK	172	1.4	H	-1.09	52.11	74.00	-21.89
5147.42	37.29	Ave	172	1.4	H	-1.09	36.20	54.00	-17.80
10640.00	39.96	PK	128	1.7	H	5.14	45.10	74.00	-28.90
10640.00	32.10	Ave	128	1.7	H	5.14	37.24	54.00	-16.76

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-2C Low Channel 5500MHz									
208.75	42.25	QP	17	1.1	H	-11.62	30.63	43.50	-12.87
208.75	45.45	QP	290	1.3	V	-11.62	33.83	43.50	-9.67
4528.89	53.50	PK	2	1.5	H	-2.03	51.47	74.00	-22.53
4528.89	39.92	Ave	2	1.5	H	-2.03	37.89	54.00	-16.11
5142.15	54.19	PK	282	1.6	H	-1.02	53.17	74.00	-20.83
5142.15	38.66	Ave	282	1.6	H	-1.02	37.64	54.00	-16.36
11000.00	41.46	PK	75	1.5	H	5.33	46.79	74.00	-27.21
11000.00	37.23	Ave	75	1.5	H	5.33	42.56	54.00	-11.44
802.11a U-NII-2C Middle channel 5600MHz									
208.75	41.09	QP	1	1.8	H	-11.62	29.47	43.50	-14.03
208.75	44.22	QP	222	1.1	V	-11.62	32.60	43.50	-10.90
4507.63	52.83	PK	188	1.2	H	-1.94	50.89	74.00	-23.11
4507.63	39.46	Ave	188	1.2	H	-1.94	37.52	54.00	-16.48
5121.20	53.79	PK	160	1.1	H	-1.06	52.73	74.00	-21.27
5121.20	38.28	Ave	160	1.1	H	-1.06	37.22	54.00	-16.78
11200.00	41.32	PK	105	1.4	H	5.21	46.53	74.00	-27.47
11200.00	36.00	Ave	105	1.4	H	5.21	41.21	54.00	-12.79
802.11a U-NII-2C High channel 5700MHz									
208.75	40.54	QP	98	1.6	H	-11.62	28.92	43.50	-14.58
208.75	43.25	QP	348	1.3	V	-11.62	31.63	43.50	-11.87
4537.28	51.36	PK	317	2.0	H	-2.24	49.12	74.00	-24.88
4537.28	38.08	Ave	317	2.0	H	-2.24	35.84	54.00	-18.16
5117.43	54.14	PK	201	1.9	H	-1.09	53.05	74.00	-20.95
5117.43	38.55	Ave	201	1.9	H	-1.09	37.46	54.00	-16.54
11400.00	41.20	PK	227	1.6	H	5.14	46.34	74.00	-27.66
11400.00	37.19	Ave	227	1.6	H	5.14	42.33	54.00	-11.67

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a U-NII-3 Low Channel 5745MHz									
208.75	45.76	QP	136	1.1	H	-11.62	34.14	43.50	-9.36
208.75	41.64	QP	307	1.1	V	-11.62	30.02	43.50	-13.48
4514.20	57.93	PK	145	1.7	H	-2.06	55.87	74.00	-18.13
4514.20	42.84	Ave	145	1.7	H	-2.06	40.78	54.00	-13.22
5353.53	40.29	PK	242	1.8	H	5.93	46.22	74.00	-27.78
5353.53	29.14	Ave	242	1.8	H	5.93	35.07	54.00	-18.93
11490.00	46.56	PK	80	1.8	H	-1.25	45.31	74.00	-28.69
11490.00	39.08	Ave	80	1.8	H	-1.25	37.83	54.00	-16.17
802.11a U-NII-3 Middle channel 5785MHz									
208.75	45.10	QP	206	1.5	H	-11.62	33.48	43.50	-10.02
208.75	41.51	QP	194	1.7	V	-11.62	29.89	43.50	-13.61
4523.18	57.18	PK	141	1.7	H	-2.03	55.15	74.00	-18.85
4523.18	41.94	Ave	141	1.7	H	-2.03	39.91	54.00	-14.09
5372.02	41.35	PK	60	1.5	H	5.81	47.16	74.00	-26.84
5372.02	29.06	Ave	60	1.5	H	5.81	34.87	54.00	-19.13
11570.00	46.86	PK	337	1.8	H	-1.22	45.64	74.00	-28.36
11570.00	37.32	Ave	337	1.8	H	-1.22	36.10	54.00	-17.90
802.11a U-NII-3 High channel 5825MHz									
208.75	43.64	QP	347	1.8	H	-11.62	32.02	43.50	-11.48
208.75	40.81	QP	186	2.0	V	-11.62	29.19	43.50	-14.31
4506.52	56.41	PK	16	1.5	H	-1.84	54.57	74.00	-19.43
4506.52	40.51	Ave	16	1.5	H	-1.84	38.67	54.00	-15.33
5352.99	41.53	PK	331	1.1	H	5.84	47.37	74.00	-26.63
5352.99	29.21	Ave	331	1.1	H	5.84	35.05	54.00	-18.95
11650.00	45.57	PK	122	1.7	H	-1.30	44.27	74.00	-29.73
11650.00	39.62	Ave	122	1.7	H	-1.30	38.32	54.00	-15.68

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-1 Low Channel 5180MHz									
208.75	43.60	QP	81	1.2	H	-11.62	31.98	43.50	-11.52
208.75	38.73	QP	323	1.7	V	-11.62	27.11	43.50	-16.39
4526.83	54.36	PK	319	1.2	H	-2.14	52.22	74.00	-21.78
4526.83	38.82	Ave	319	1.2	H	-2.14	36.68	54.00	-17.32
5115.96	45.82	PK	170	1.8	H	-1.06	44.76	74.00	-29.24
5115.96	39.30	Ave	170	1.8	H	-1.06	38.24	54.00	-15.76
10360.00	40.67	PK	178	1.1	H	5.33	46.00	74.00	-28.00
10360.00	28.71	Ave	178	1.1	H	5.33	34.04	54.00	-19.96
802.11n(HT20) U-NII-1 Middle channel 5200MHz									
208.75	43.04	QP	173	1.2	H	-11.62	31.42	43.50	-12.08
208.75	37.33	QP	118	1.2	V	-11.62	25.71	43.50	-17.79
4529.51	53.31	PK	339	1.3	H	-2.12	51.19	74.00	-22.81
4529.51	38.32	Ave	339	1.3	H	-2.12	36.20	54.00	-17.80
5137.98	45.21	PK	162	1.5	H	-1.06	44.15	74.00	-29.85
5137.98	38.50	Ave	162	1.5	H	-1.06	37.44	54.00	-16.56
10400.00	41.92	PK	175	1.5	H	5.21	47.13	74.00	-26.87
10400.00	29.78	Ave	175	1.5	H	5.21	34.99	54.00	-19.01
802.11n(HT20) U-NII-1 High channel 5240MHz									
208.75	42.62	QP	2	1.6	H	-11.62	31.00	43.50	-12.50
208.75	38.78	QP	122	2.0	V	-11.62	27.16	43.50	-16.34
4528.87	52.74	PK	159	1.9	H	-1.96	50.78	74.00	-23.22
4528.87	36.96	Ave	159	1.9	H	-1.96	35.00	54.00	-19.00
5139.91	46.14	PK	120	1.8	H	-1.06	45.08	74.00	-28.92
5139.91	39.91	Ave	120	1.8	H	-1.06	38.85	54.00	-15.15
10480.00	41.98	PK	45	1.1	H	5.14	47.12	74.00	-26.88
10480.00	30.04	Ave	45	1.1	H	5.14	35.18	54.00	-18.82

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-2A Low Channel 5260MHz									
208.75	45.10	QP	285	1.1	H	-11.62	33.48	43.50	-10.02
208.75	42.58	QP	16	1.5	V	-11.62	30.96	43.50	-12.54
4513.90	53.52	PK	113	1.8	H	-2.03	51.49	74.00	-22.51
4513.90	43.03	Ave	113	1.8	H	-2.03	41.00	54.00	-13.00
5130.66	54.80	PK	14	1.0	H	-1.02	53.78	74.00	-20.22
5130.66	38.85	Ave	14	1.0	H	-1.02	37.83	54.00	-16.17
10520.00	47.72	PK	358	1.3	H	5.33	53.05	74.00	-20.95
10520.00	32.56	Ave	358	1.3	H	5.33	37.89	54.00	-16.11
802.11n(HT20) U-NII-2A Middle channel 5280MHz									
208.75	42.55	QP	139	1.4	H	-11.62	30.93	43.50	-12.57
208.75	43.30	QP	25	1.7	V	-11.62	31.68	43.50	-11.82
4511.27	48.30	PK	354	1.6	H	-1.94	46.36	74.00	-27.64
4511.27	40.56	Ave	354	1.6	H	-1.94	38.62	54.00	-15.38
5116.50	57.41	PK	294	1.6	H	-1.06	56.35	74.00	-17.65
5116.50	42.29	Ave	294	1.6	H	-1.06	41.23	54.00	-12.77
10560.00	44.95	PK	254	1.9	H	5.21	50.16	74.00	-23.84
10560.00	31.96	Ave	254	1.9	H	5.21	37.17	54.00	-16.83
802.11n(HT20) U-NII-2A High channel 5320MHz									
208.75	45.82	QP	163	1.8	H	-11.62	34.20	43.50	-9.30
208.75	43.77	QP	228	1.7	V	-11.62	32.15	43.50	-11.35
4503.07	52.54	PK	202	1.1	H	-2.24	50.30	74.00	-23.70
4503.07	41.13	Ave	202	1.1	H	-2.24	38.89	54.00	-15.11
5113.22	55.87	PK	319	1.7	H	-1.09	54.78	74.00	-19.22
5113.22	40.35	Ave	319	1.7	H	-1.09	39.26	54.00	-14.74
10640.00	46.73	PK	156	1.4	H	5.14	51.87	74.00	-22.13
10640.00	31.47	Ave	156	1.4	H	5.14	36.61	54.00	-17.39

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-2C Low Channel 5500MHz									
208.75	43.09	QP	215	1.0	H	-11.62	31.47	43.50	-12.03
208.75	46.17	QP	273	1.7	V	-11.62	34.55	43.50	-8.95
4505.15	55.14	PK	308	1.4	H	-2.03	53.11	74.00	-20.89
4505.15	30.00	Ave	308	1.4	H	-2.03	27.97	54.00	-26.03
5127.11	46.15	PK	352	1.1	H	-1.02	45.13	74.00	-28.87
5127.11	39.94	Ave	352	1.1	H	-1.02	38.92	54.00	-15.08
11000.00	44.80	PK	266	1.3	H	5.33	50.13	74.00	-23.87
11000.00	33.41	Ave	266	1.3	H	5.33	38.74	54.00	-15.26
802.11n(HT20) U-NII-2C Middle channel 5600MHz									
208.75	42.22	QP	310	1.2	H	-11.62	30.60	43.50	-12.90
208.75	43.40	QP	31	1.7	V	-11.62	31.78	43.50	-11.72
4514.33	56.45	PK	73	1.2	H	-1.94	54.51	74.00	-19.49
4514.33	34.42	Ave	73	1.2	H	-1.94	32.48	54.00	-21.52
5139.60	48.28	PK	302	1.4	H	-1.06	47.22	74.00	-26.78
5139.60	40.75	Ave	302	1.4	H	-1.06	39.69	54.00	-14.31
11200.00	49.09	PK	161	1.7	H	5.21	54.30	74.00	-19.70
11200.00	32.11	Ave	161	1.7	H	5.21	37.32	54.00	-16.68
802.11n(HT20) U-NII-2C High channel 5700MHz									
208.75	42.18	QP	192	1.7	H	-11.62	30.56	43.50	-12.94
208.75	43.22	QP	1	1.1	V	-11.62	31.60	43.50	-11.90
4520.82	57.31	PK	19	1.6	H	-2.24	55.07	74.00	-18.93
4520.82	33.41	Ave	19	1.6	H	-2.24	31.17	54.00	-22.83
5149.98	47.50	PK	87	1.7	H	-1.09	46.41	74.00	-27.59
5149.98	41.89	Ave	87	1.7	H	-1.09	40.80	54.00	-13.20
11400.00	47.83	PK	89	1.4	H	5.14	52.97	74.00	-21.03
11400.00	32.42	Ave	89	1.4	H	5.14	37.56	54.00	-16.44

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) U-NII-3 Low Channel 5745MHz									
208.75	34.12	QP	64	1.0	H	-11.62	22.50	43.50	-21.00
208.75	40.26	QP	176	1.4	V	-11.62	28.64	43.50	-14.86
4513.50	58.71	PK	247	1.5	H	-2.06	56.65	74.00	-17.35
4513.50	47.32	Ave	247	1.5	H	-2.06	45.26	54.00	-8.74
5367.12	43.55	PK	10	1.8	H	5.93	49.48	74.00	-24.52
5367.12	35.02	Ave	10	1.8	H	5.93	40.95	54.00	-13.05
11490.00	45.26	PK	323	1.3	H	-1.25	44.01	74.00	-29.99
11490.00	38.54	Ave	323	1.3	H	-1.25	37.29	54.00	-16.71
802.11n(HT20) U-NII-3 Middle channel 5785MHz									
208.75	32.58	QP	106	1.6	H	-11.62	20.96	43.50	-22.54
208.75	46.42	QP	128	1.7	V	-11.62	34.80	43.50	-8.70
4529.64	56.86	PK	131	1.8	H	-2.03	54.83	74.00	-19.17
4529.64	48.72	Ave	131	1.8	H	-2.03	46.69	54.00	-7.31
5368.43	51.33	PK	313	1.4	H	5.81	57.14	74.00	-16.86
5368.43	38.11	Ave	313	1.4	H	5.81	43.92	54.00	-10.08
11570.00	46.06	PK	167	1.1	H	-1.22	44.84	74.00	-29.16
11570.00	38.00	Ave	167	1.1	H	-1.22	36.78	54.00	-17.22
802.11n(HT20) U-NII-3 High channel 5825MHz									
208.75	37.17	QP	154	1.7	H	-11.62	25.55	43.50	-17.95
208.75	39.90	QP	154	1.7	V	-11.62	28.28	43.50	-15.22
4502.95	55.45	PK	308	1.0	H	-1.84	53.61	74.00	-20.39
4502.95	44.73	Ave	308	1.0	H	-1.84	42.89	54.00	-11.11
5364.73	50.39	PK	273	1.7	H	5.84	56.23	74.00	-17.77
5364.73	40.41	Ave	273	1.7	H	5.84	46.25	54.00	-7.75
11650.00	46.40	PK	197	1.9	H	-1.30	45.10	74.00	-28.90
11650.00	38.69	Ave	197	1.9	H	-1.30	37.39	54.00	-16.61

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) U-NII-1 Low Channel 5190MHz									
208.75	39.06	QP	162	1.3	H	-11.62	27.44	43.50	-16.06
208.75	38.78	QP	352	1.2	V	-11.62	27.16	43.50	-16.34
4507.66	52.23	PK	262	1.2	H	-1.89	50.34	74.00	-23.66
4507.66	38.62	Ave	262	1.2	H	-1.89	36.73	54.00	-17.27
5140.12	46.69	PK	21	1.3	H	-1.06	45.63	74.00	-28.37
5140.12	39.37	Ave	21	1.3	H	-1.06	38.31	54.00	-15.69
10380.00	39.57	PK	181	2.0	H	5.26	44.83	74.00	-29.17
10380.00	28.66	Ave	181	2.0	H	5.26	33.92	54.00	-20.08
802.11n(HT40) U-NII-1 High channel 5230MHz									
208.75	37.79	QP	20	1.3	H	-11.62	26.17	43.50	-17.33
208.75	43.28	QP	355	1.9	V	-11.62	31.66	43.50	-11.84
4512.89	52.01	PK	85	1.9	H	-1.94	50.07	74.00	-23.93
4512.89	37.79	Ave	85	1.9	H	-1.94	35.85	54.00	-18.15
5148.07	46.74	PK	37	1.3	H	-1.06	45.68	74.00	-28.32
5148.07	37.92	Ave	37	1.3	H	-1.06	36.86	54.00	-17.14
10460.00	41.92	PK	30	1.3	H	5.28	47.20	74.00	-26.80
10460.00	30.04	Ave	30	1.3	H	5.28	35.32	54.00	-18.68

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) U-NII-2A Low Channel 5270MHz									
208.75	36.69	QP	67	1.2	H	-11.62	25.07	43.50	-18.43
208.75	43.85	QP	298	1.7	V	-11.62	32.23	43.50	-11.27
4511.23	53.63	PK	36	1.3	H	-1.89	51.74	74.00	-22.26
4511.23	40.78	Ave	36	1.3	H	-1.89	38.89	54.00	-15.11
5118.85	47.64	PK	311	1.2	H	-1.06	46.58	74.00	-27.42
5118.85	36.93	Ave	311	1.2	H	-1.06	35.87	54.00	-18.13
10540.00	45.79	PK	327	1.5	H	5.26	51.05	74.00	-22.95
10540.00	38.26	Ave	327	1.5	H	5.26	43.52	54.00	-10.48
802.11n(HT40) U-NII-2A High channel 5310MHz									
208.75	36.06	QP	144	1.9	H	-11.62	24.44	43.50	-19.06
208.75	42.87	QP	63	1.9	V	-11.62	31.25	43.50	-12.25
4537.86	54.08	PK	282	1.3	H	-1.94	52.14	74.00	-21.86
4537.86	40.23	Ave	282	1.3	H	-1.94	38.29	54.00	-15.71
5146.90	47.33	PK	170	1.5	H	-1.06	46.27	74.00	-27.73
5146.90	38.88	Ave	170	1.5	H	-1.06	37.82	54.00	-16.18
10620.00	42.16	PK	69	1.4	H	5.28	47.44	74.00	-26.56
10620.00	30.75	Ave	69	1.4	H	5.28	36.03	54.00	-17.97

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) U-NII-2C Low Channel 5510MHz									
208.75	36.10	QP	339	1.9	H	-11.62	24.48	43.50	-19.02
208.75	45.09	QP	221	1.4	V	-11.62	33.47	43.50	-10.03
4506.28	51.64	PK	147	2.0	H	-1.89	49.75	74.00	-24.25
4506.28	37.14	Ave	147	2.0	H	-1.89	35.25	54.00	-18.75
5121.96	53.88	PK	171	1.2	H	-1.06	52.82	74.00	-21.18
5121.96	41.51	Ave	171	1.2	H	-1.06	40.45	54.00	-13.55
11020.00	42.73	PK	251	1.9	H	5.26	47.99	74.00	-26.01
11020.00	36.08	Ave	251	1.9	H	5.26	41.34	54.00	-12.66
802.11n(HT40) U-NII-2C Middle channel 5550MHz									
208.75	42.69	QP	13	1.9	H	-11.62	31.07	43.50	-12.43
208.75	41.37	QP	167	1.7	V	-11.62	29.75	43.50	-13.75
4533.99	52.38	PK	357	1.4	H	-1.94	50.44	74.00	-23.56
4533.99	38.77	Ave	357	1.4	H	-1.94	36.83	54.00	-17.17
5130.70	55.34	PK	321	2.0	H	-1.06	54.28	74.00	-19.72
5130.70	38.66	Ave	321	2.0	H	-1.06	37.60	54.00	-16.40
11100.00	45.85	PK	161	1.6	H	5.28	51.13	74.00	-22.87
11100.00	37.20	Ave	161	1.6	H	5.28	42.48	54.00	-11.52
802.11n(HT40) U-NII-2C High channel 5670MHz									
208.75	37.80	QP	233	1.6	H	-11.62	26.18	43.50	-17.32
208.75	45.03	QP	71	1.1	V	-11.62	33.41	43.50	-10.09
4533.64	49.89	PK	95	1.4	H	-1.94	47.95	74.00	-26.05
4533.64	39.61	Ave	95	1.4	H	-1.94	37.67	54.00	-16.33
5149.27	55.87	PK	254	1.6	H	-1.06	54.81	74.00	-19.19
5149.27	39.34	Ave	254	1.6	H	-1.06	38.28	54.00	-15.72
11340.00	40.44	PK	101	1.2	H	5.28	45.72	74.00	-28.28
11340.00	33.57	Ave	101	1.2	H	5.28	38.85	54.00	-15.15

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) U-NII-3 Low Channel 5755MHz									
208.75	39.34	QP	214	1.9	H	-11.62	27.72	43.50	-15.78
208.75	45.59	QP	126	1.0	V	-11.62	33.97	43.50	-9.53
4512.95	52.09	PK	341	1.2	H	-1.96	50.13	74.00	-23.87
4512.95	36.58	Ave	341	1.2	H	-1.96	34.62	54.00	-19.38
5388.69	39.36	PK	223	1.3	H	5.88	45.24	74.00	-28.76
5388.69	26.21	Ave	223	1.3	H	5.88	32.09	54.00	-21.91
11510.00	45.81	PK	236	1.4	H	-1.01	44.80	74.00	-29.20
11510.00	39.56	Ave	236	1.4	H	-1.01	38.55	54.00	-15.45
802.11n(HT40) U-NII-3 High Channel 5795MHz									
208.75	39.52	QP	174	1.6	H	-11.62	27.90	43.50	-15.60
208.75	42.05	QP	136	1.6	V	-11.62	30.43	43.50	-13.07
4519.02	53.25	PK	21	1.8	H	-1.92	51.33	74.00	-22.67
4519.02	41.84	Ave	21	1.8	H	-1.92	39.92	54.00	-14.08
5370.79	41.03	PK	81	1.4	H	5.63	46.66	74.00	-27.34
5370.79	28.77	Ave	81	1.4	H	5.63	34.40	54.00	-19.60
11590.00	46.44	PK	55	1.4	H	-1.04	45.40	74.00	-28.60
11590.00	37.16	Ave	55	1.4	H	-1.04	36.12	54.00	-17.88

Test Frequency: 18GHz~40GHz

The measurements were more than 20 dB below the limit and not reported.

9 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, 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. This product has a External Antenna fulfil the requirement of this section.

Note: Please refer to EUT photos for more details.

10 RF Exposure

Note: Please refer to RF Exposure Report: WTF25D02039207W008.

11 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix-Nexis LX1-Photos.

=====End of Report=====