

TEST REPORT

Reference No. : WTF23D12272911W003
FCC ID..... : 2BCDM-FRANK
Applicant..... : Guangzhou Bochong Technology Co., Ltd
Address : Unit 2270, No. 283-2, Tongsha Road, Tonghe Street, Baiyun District,
Guangzhou City, China
Manufacturer : Guangzhou Bochong Technology Co., Ltd
Address : Unit 2270, No. 283-2, Tongsha Road, Tonghe Street, Baiyun District,
Guangzhou City, China
Product Name : Smart Cat Litter Box
Model No. : FRANK, FRW, REM, REW, REM1, REW1
Standards..... : FCC 47CFR Part 15 Section 15.407
Date of Receipt sample..... : 2024-01-12
Date of Test..... : 2024-01-12 to 2024-02-26
Date of Issue : 2024-05-07
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.

Prepared By:

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2 Contents

	Page
1 COVER PAGE.....	1
2 CONTENTS.....	2
3 REVISION HISTORY.....	3
4 GENERAL INFORMATION.....	4
4.1 GENERAL DESCRIPTION OF E.U.T.....	4
4.2 DETAILS OF E.U.T.....	4
4.3 CHANNEL LIST.....	5
4.4 TEST MODE DESCRIPTION	6
4.5 TEST FACILITY	6
5 EQUIPMENT USED DURING TEST.....	7
5.1 EQUIPMENTS LIST	7
5.2 MEASUREMENT UNCERTAINTY	7
6 TEST SUMMARY.....	8
7 RADIATED EMISSIONS.....	9
7.1 EUT OPERATION.....	9
7.2 TEST SETUP	10
7.3 SPECTRUM ANALYZER SETUP	11
7.4 TEST PROCEDURE.....	12
7.5 CORRECTED AMPLITUDE & MARGIN CALCULATION.....	12
7.6 SUMMARY OF TEST RESULTS.....	13
8 PHOTOGRAPHS OF TEST SETUP AND EUT.....	21

3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTF23D12272911W003	2024-01-12	2024-01-12 to 2024-02-26	2024-05-07	Original	-	Valid
Note: This report is based on WTF23D08185189W004 to update models. The test item spurious emissions of new model REW were added and recorded in this report.						

4 General Information

4.1 General Description of E.U.T.

Product:	Smart Cat Litter Box
Model(s):	FRANK, FRW, REM, REW, REM1, REW1
Model Description:	Only the model names, appearance and control circuit PCB board are different for different market requirement. The models FRANK and FRW use control circuit PCB board B. The models REM, REW, REM1 and REW1 use control circuit PCB board C. The test sample model was REW.
Wi-Fi Specification:	802.11a/ n(HT20/40)
Hardware Version:	Main Board: BC002_Main_V1.2 Extend Board: BC002_Key_V1.1 Weigh Board: BC002_Weight_V1.0 Hall Board: BC002_Hall_V1.0 Pir Board: BC002_Pir_V1.0
Software Version:	V1.1.3

4.2 Details of E.U.T.

Operation Frequency:	802.11a/n (HT20): U-NII-1: 5150-5250MHz, U-NII-3: 5725-5850MHz 802.11n (HT40): U-NII-1: 5190-5230MHz, U-NII-3: 5755-5795MHz
Max. RF output power:	U-NII-1: 13.93dBm U-NII-3: 16.61dBm
Type of Modulation:	OFDM
Antenna installation:	PCB Antenna
Antenna Gain:	U-NII-1: 1.97dBi U-NII-3: -0.76dBi

Note:

#: The antenna gain is provided by the applicant, and the applicant should be responsible for its authenticity, WALTERK lab has not verified the authenticity of its information.

Ratings:	Input: DC 12V by adapter
Adapter:	Model: AS024-1202000U Input: 100-240V~ 50/60Hz 0.8A Output: 12V  2A

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-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)
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)
151	5755	159	5795

4.4 Test Mode Description

During testing, Channel and Power Controlling Software provided by the customer was used to control the operating channel as well as the 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.

Transmitting duty cycle is no less 98%.

The software is TermAssist and SecureCRT tool Use together.

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.

5 Equipment Used during Test

5.1 Equipments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date	Calibration Due Date
3m Semi-anechoic Chamber for Radiation Emissions 1#						
1	Spectrum Analyzer	R&S	FSP30	100091	2023-04-24	2024-04-23
2	Amplifier	Agilent	8447D	2944A10178	2023-07-27	2024-07-26
3	Tri-log Broadband Antenna	SCHWARZBECK	VULB9163	336	2023-08-07	2024-08-06
4	Coaxial Cable	Top	TYPE16(13M)	-	2023-04-24	2024-04-23
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120D	667	2024-01-23	2025-01-22
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2023-07-29	2024-07-28
7	Broadband Preamplifier	COMPLIANCE	PAP-1G18	2004	2023-08-08	2024-08-07
8	Coaxial Cable	Top	ZT26-NJ-NJ-8M/FA	-	2024-01-23	2025-01-22
9	Microwave Amplifier	SCHWARZBECK	BBV 9721	100472	2023-07-27	2024-07-26
10	Coaxial Cable	Top	ZT40-2.92J-2.92J-2.0M	17100919	2023-04-24	2024-04-23
3m Semi-anechoic Chamber for Radiation Emissions 2#						
1	Test Receiver	R&S	ESCI	101296	2023-04-24	2024-04-23
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2023-11-04	2024-11-03
3	Active Loop Antenna	Com-Power	AL-130R	10160007	2023-05-07	2024-05-06
4	Amplifier	ANRITSU	MH648A	M43381	2023-04-24	2024-04-23
5	Cable	HUBER+SUHNER	CBL2	525178	2023-04-24	2024-04-23

Test Software:

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

5.2 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)

6 Test Summary

Test Items	Test Requirement	Result
Conducted Emissions	15.207(a)	PASS*
Radiated Emissions	15.407(a) 15.205(a) 15.209(a)	PASS
Duty Cycle	KDB 789033	PASS*
6dB Bandwidth	15.407(a)	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)	PASS*
Restricted bands around fundamental frequency	15.407(a)	PASS*
Antenna Requirement	15.203	PASS*
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS*

7 Radiated Emissions

Test Requirement: FCC 47CFR Part 15 Section 15.209 & 15.407

Test Method: ANSI C63.10:2013

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	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
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	$20\log^{(500)}$

7.1 EUT Operation

Operating Environment :

Temperature: 24.6 °C

Humidity: 50.9 % RH

Atmospheric Pressure: 101.5kPa

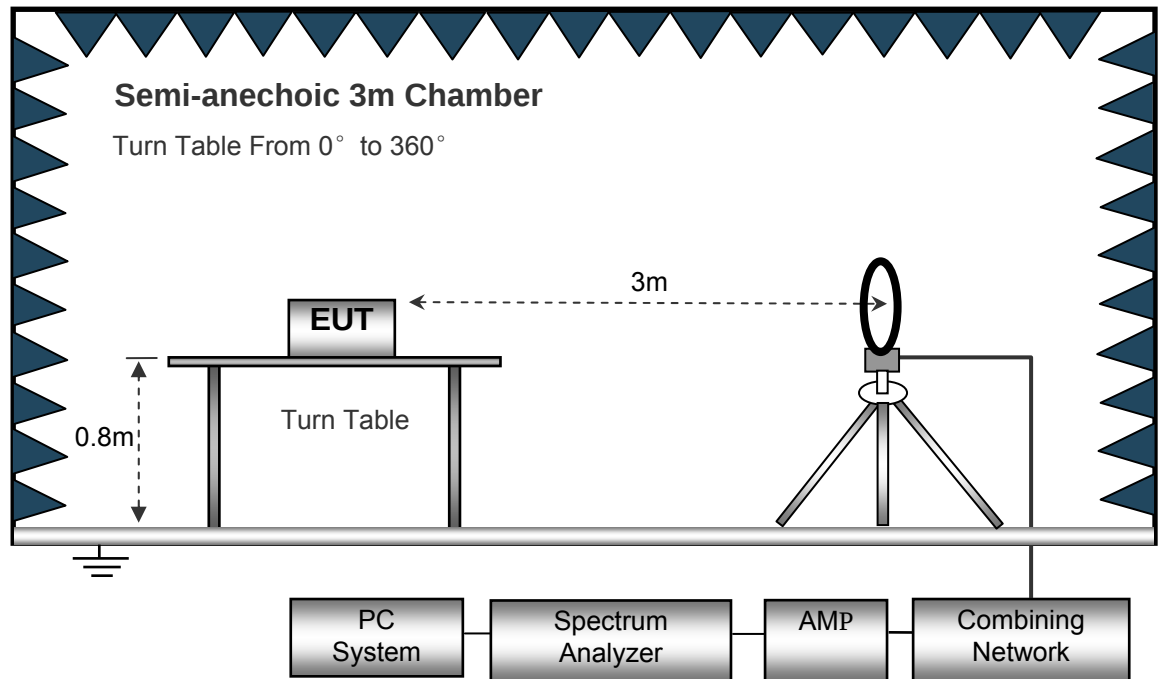
EUT Operation :

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

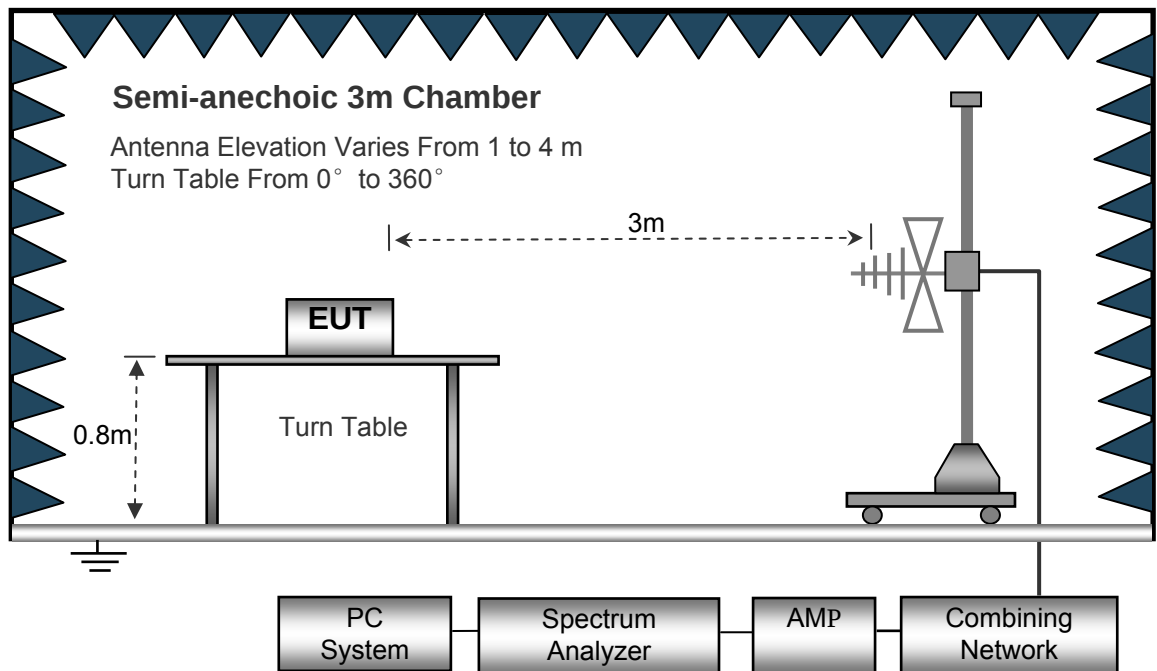
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10: 2013.

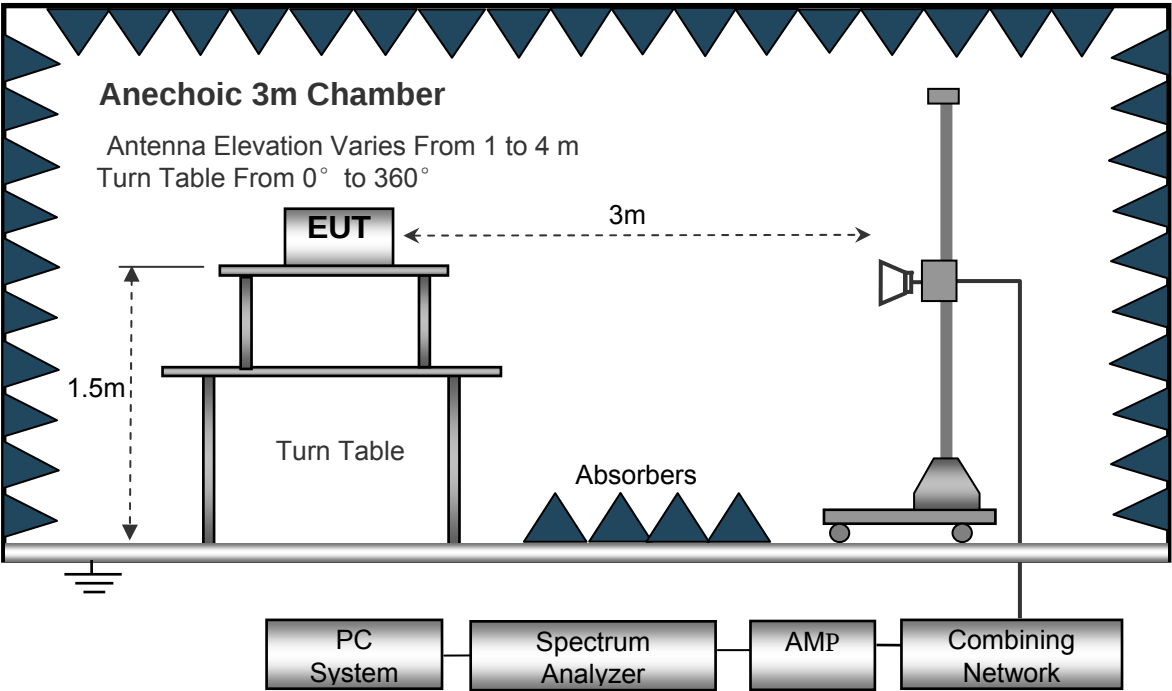
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1 GHz.



7.3 Spectrum Analyzer Setup

Below 30MHz

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

30MHz ~ 1GHz

Sweep Speed Auto
DetectorPK
Resolution Bandwidth.....100kHz
Video Bandwidth.....300kHz

Above 1GHz

Sweep Speed Auto
DetectorPK
Resolution Bandwidth.....1MHz
Video Bandwidth.....3MHz
DetectorAve.
Resolution Bandwidth.....1MHz
Video Bandwidth.....10Hz

7.4 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.

7.5 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:

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

7.6 Summary of Test Results

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									
226.58	36.86	QP	99	1.7	H	-11.62	25.24	46.00	-20.76
226.58	39.77	QP	137	1.8	V	-11.62	28.15	46.00	-17.85
4508.00	53.63	PK	164	1.0	H	-2.03	51.60	74.00	-22.40
4508.00	43.82	Ave	164	1.0	H	-2.03	41.79	54.00	-12.21
5135.41	52.68	PK	302	1.5	H	-1.02	51.66	74.00	-22.34
5135.41	44.47	Ave	302	1.5	H	-1.02	43.45	54.00	-10.55
10360.00	41.54	PK	163	1.6	H	5.33	46.87	74.00	-27.13
10360.00	37.55	Ave	163	1.6	H	5.33	42.88	54.00	-11.12
802.11a U-NII-1 Middle channel 5200MHz									
226.58	36.40	QP	276	1.3	H	-11.62	24.78	46.00	-21.22
226.58	39.63	QP	77	1.9	V	-11.62	28.01	46.00	-17.99
4525.65	52.92	PK	232	2.0	H	-1.94	50.98	74.00	-23.02
4525.65	43.67	Ave	232	2.0	H	-1.94	41.73	54.00	-12.27
5141.27	51.79	PK	19	1.3	H	-1.06	50.73	74.00	-23.27
5141.27	46.41	Ave	19	1.3	H	-1.06	45.35	54.00	-8.65
10400.00	41.08	PK	24	1.9	H	5.21	46.29	74.00	-27.71
10400.00	39.00	Ave	24	1.9	H	5.21	44.21	54.00	-9.79

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 High channel 5240MHz									
226.58	35.94	QP	19	1.3	H	-11.62	24.32	46.00	-21.68
226.58	39.85	QP	240	1.5	V	-11.62	28.23	46.00	-17.77
4515.20	55.01	PK	212	1.8	H	-2.24	52.77	74.00	-21.23
4515.20	41.33	Ave	212	1.8	H	-2.24	39.09	54.00	-14.91
5124.21	54.30	PK	36	1.6	H	-1.09	53.21	74.00	-20.79
5124.21	46.60	Ave	36	1.6	H	-1.09	45.51	54.00	-8.49
10480.00	40.94	PK	201	1.4	H	5.14	46.08	74.00	-27.92
10480.00	35.86	Ave	201	1.4	H	5.14	41.00	54.00	-13.00
802.11a U-NII-3 Low Channel 5745MHz									
226.58	34.61	QP	158	1.3	H	-11.62	22.99	46.00	-23.01
226.58	40.07	QP	320	1.1	V	-11.62	28.45	46.00	-17.55
4536.37	55.71	PK	278	1.7	H	-2.06	53.65	74.00	-20.35
4536.37	41.97	Ave	278	1.7	H	-2.06	39.91	54.00	-14.09
5383.73	42.15	PK	211	1.8	H	5.93	48.08	74.00	-25.92
5383.73	35.94	Ave	211	1.8	H	5.93	41.87	54.00	-12.13
11490.00	45.81	PK	347	1.2	H	-1.25	44.56	74.00	-29.44
11490.00	38.67	Ave	347	1.2	H	-1.25	37.42	54.00	-16.58

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 middle channel 5785MHz									
226.58	36.33	QP	197	2.0	H	-11.62	24.71	46.00	-21.29
226.58	41.37	QP	166	1.1	V	-11.62	29.75	46.00	-16.25
4508.35	54.27	PK	18	1.2	H	-2.03	52.24	74.00	-21.76
4508.35	43.35	Ave	18	1.2	H	-2.03	41.32	54.00	-12.68
5380.94	43.26	PK	190	1.5	H	5.81	49.07	74.00	-24.93
5380.94	38.45	Ave	190	1.5	H	5.81	44.26	54.00	-9.74
11570.00	46.34	PK	26	2.0	H	-1.22	45.12	74.00	-28.88
11570.00	38.40	Ave	26	2.0	H	-1.22	37.18	54.00	-16.82
802.11a U-NII-3 High channel 5825MHz									
226.58	36.04	QP	161	1.4	H	-11.62	24.42	46.00	-21.58
226.58	41.53	QP	246	1.9	V	-11.62	29.91	46.00	-16.09
4508.71	53.35	PK	231	1.3	H	-1.84	51.51	74.00	-22.49
4508.71	43.30	Ave	231	1.3	H	-1.84	41.46	54.00	-12.54
5350.47	40.79	PK	172	1.8	H	5.84	46.63	74.00	-27.37
5350.47	37.42	Ave	172	1.8	H	5.84	43.26	54.00	-10.74
11650.00	45.43	PK	233	1.1	H	-1.30	44.13	74.00	-29.87
11650.00	37.62	Ave	233	1.1	H	-1.30	36.32	54.00	-17.68

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Correct ed 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									
226.58	34.52	QP	22	1.8	H	-11.62	22.90	46.00	-23.10
226.58	37.94	QP	123	1.7	V	-11.62	26.32	46.00	-19.68
4506.69	50.32	PK	142	1.8	H	-2.14	48.18	74.00	-25.82
4506.69	46.46	Ave	142	1.8	H	-2.14	44.32	54.00	-9.68
5136.10	47.41	PK	102	1.9	H	-1.06	46.35	74.00	-27.65
5136.10	40.91	Ave	102	1.9	H	-1.06	39.85	54.00	-14.15
10360.00	40.58	PK	253	1.6	H	5.33	45.91	74.00	-28.09
10360.00	37.21	Ave	253	1.6	H	5.33	42.54	54.00	-11.46
802.11n(HT20) U-NII-1 Middle channel 5200MHz									
226.58	35.35	QP	310	1.9	H	-11.62	23.73	46.00	-22.27
226.58	38.30	QP	344	1.5	V	-11.62	26.68	46.00	-19.32
4517.85	50.98	PK	311	1.6	H	-2.12	48.86	74.00	-25.14
4517.85	47.42	Ave	311	1.6	H	-2.12	45.30	54.00	-8.70
5126.99	48.34	PK	148	1.9	H	-1.06	47.28	74.00	-26.72
5126.99	40.79	Ave	148	1.9	H	-1.06	39.73	54.00	-14.27
10400.00	40.29	PK	258	1.5	H	5.21	45.50	74.00	-28.50
10400.00	37.55	Ave	258	1.5	H	5.21	42.76	54.00	-11.24

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 High channel 5240MHz									
226.58	35.10	QP	228	1.7	H	-11.62	23.48	46.00	-22.52
226.58	37.61	QP	244	1.6	V	-11.62	25.99	46.00	-20.01
4502.20	51.66	PK	317	1.6	H	-1.96	49.70	74.00	-24.30
4502.20	47.27	Ave	317	1.6	H	-1.96	45.31	54.00	-8.69
5122.87	50.29	PK	325	1.6	H	-1.06	49.23	74.00	-24.77
5122.87	42.20	Ave	325	1.6	H	-1.06	41.14	54.00	-12.86
10480.00	42.54	PK	218	1.1	H	5.14	47.68	74.00	-26.32
10480.00	37.92	Ave	218	1.1	H	5.14	43.06	54.00	-10.94
802.11n(HT20) U-NII-3 Low Channel 5745MHz									
226.58	38.68	QP	162	1.1	H	-11.62	27.06	46.00	-18.94
226.58	48.47	QP	146	1.9	V	-11.62	36.85	46.00	-9.15
4535.13	44.62	PK	60	2.0	H	-2.06	42.56	74.00	-31.44
4535.13	48.89	Ave	60	2.0	H	-2.06	46.83	54.00	-7.17
5351.05	36.15	PK	16	1.0	H	5.93	42.08	74.00	-31.92
5351.05	38.71	Ave	16	1.0	H	5.93	44.64	54.00	-9.36
11490.00	46.11	PK	120	1.0	H	-1.25	44.86	74.00	-29.14
11490.00	39.89	Ave	120	1.0	H	-1.25	38.64	54.00	-15.36

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 middle channel 5785MHz									
226.58	36.56	QP	197	1.0	H	-11.62	24.94	46.00	-21.06
226.58	45.07	QP	90	1.4	V	-11.62	33.45	46.00	-12.55
4508.78	44.93	PK	141	1.8	H	-2.03	42.90	74.00	-31.10
4508.78	44.57	Ave	141	1.8	H	-2.03	42.54	54.00	-11.46
5376.55	37.60	PK	309	1.9	H	5.81	43.41	74.00	-30.59
5376.55	40.81	Ave	309	1.9	H	5.81	46.62	54.00	-7.38
11570.00	46.48	PK	56	1.2	H	-1.22	45.26	74.00	-28.74
11570.00	39.87	Ave	56	1.2	H	-1.22	38.65	54.00	-15.35
802.11n(HT20) U-NII-3 High channel 5825MHz									
226.58	35.20	QP	88	1.7	H	-11.62	23.58	46.00	-22.42
226.58	43.90	QP	268	1.6	V	-11.62	32.28	46.00	-13.72
4538.99	45.60	PK	138	1.8	H	-1.84	43.76	74.00	-30.24
4538.99	45.46	Ave	138	1.8	H	-1.84	43.62	54.00	-10.38
5380.11	37.82	PK	125	1.6	H	5.84	43.66	74.00	-30.34
5380.11	39.51	Ave	125	1.6	H	5.84	45.35	54.00	-8.65
11650.00	45.38	PK	305	1.2	H	-1.30	44.08	74.00	-29.92
11650.00	39.90	Ave	305	1.2	H	-1.30	38.60	54.00	-15.40

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Correct ed Factor	Correct ed Amplitu de	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
802.11n(HT40) U-NII-1 Low Channel 5190MHz									
226.58	36.15	QP	360	1.8	H	-11.62	24.53	46.00	-21.47
226.58	43.69	QP	325	1.1	V	-11.62	32.07	46.00	-13.93
4512.69	39.58	PK	54	1.9	H	-1.89	37.69	74.00	-36.31
4512.69	35.24	Ave	54	1.9	H	-1.89	33.35	54.00	-20.65
5129.59	46.59	PK	289	1.9	H	-1.06	45.53	74.00	-28.47
5129.59	37.92	Ave	289	1.9	H	-1.06	36.86	54.00	-17.14
10380.00	39.76	PK	109	1.6	H	5.26	45.02	74.00	-28.98
10380.00	34.40	Ave	109	1.6	H	5.26	39.66	54.00	-14.34
802.11n(HT40) U-NII-1 High channel 5230MHz									
226.58	36.83	QP	29	1.8	H	-11.62	25.21	46.00	-20.79
226.58	38.35	QP	145	2.0	V	-11.62	26.73	46.00	-19.27
4534.73	39.34	PK	193	1.8	H	-1.94	37.40	74.00	-36.60
4534.73	33.59	Ave	193	1.8	H	-1.94	31.65	54.00	-22.35
5136.28	47.51	PK	174	1.7	H	-1.06	46.45	74.00	-27.55
5136.28	40.89	Ave	174	1.7	H	-1.06	39.83	54.00	-14.17
10460.00	42.83	PK	257	1.1	H	5.28	48.11	74.00	-25.89
10460.00	37.05	Ave	257	1.1	H	5.28	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)
802.11n(HT40) U-NII-3 Low Channel 5755MHz									
226.58	34.82	QP	126	1.7	H	-11.62	23.20	46.00	-22.80
226.58	40.23	QP	260	1.5	V	-11.62	28.61	46.00	-17.39
4519.94	40.29	PK	220	1.5	H	-1.96	38.33	74.00	-35.67
4519.94	31.82	Ave	220	1.5	H	-1.96	29.86	54.00	-24.14
5368.56	40.23	PK	324	2.0	H	5.88	46.11	74.00	-27.89
5368.56	35.44	Ave	324	2.0	H	5.88	41.32	54.00	-12.68
11510.00	46.47	PK	255	1.5	H	-1.01	45.46	74.00	-28.54
11510.00	38.89	Ave	255	1.5	H	-1.01	37.88	54.00	-16.12
802.11n(HT40) U-NII-3 High Channel 5795MHz									
226.58	33.90	QP	303	1.2	H	-11.62	22.28	46.00	-23.72
226.58	40.05	QP	212	1.7	V	-11.62	28.43	46.00	-17.57
4511.47	43.20	PK	86	1.8	H	-1.92	41.28	74.00	-32.72
4511.47	31.01	Ave	86	1.8	H	-1.92	29.09	54.00	-24.91
5351.30	43.02	PK	310	1.1	H	5.63	48.65	74.00	-25.35
5351.30	36.28	Ave	310	1.1	H	5.63	41.91	54.00	-12.09
11590.00	45.08	PK	214	1.3	H	-1.04	44.04	74.00	-29.96
11590.00	39.89	Ave	214	1.3	H	-1.04	38.85	54.00	-15.15

Test Frequency: 12GHz~40GHz

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

8 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix-REW-Photos.

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