

TEST REPORT

Reference No. : WTD24D09217336W002
FCC ID..... : 2A8WB-ALXC29
Applicant..... : Shenzhen Mindray Animal Medical Technology Co.,Ltd.
Address : Room 702, Tower 4, YESUN Intelligent Community III, No.1301-88
Guanguang Road, Shenzhen, China
Manufacturer : Shenzhen Mindray Animal Medical Technology Co.,Ltd.
Address : Room 702, Tower 4, YESUN Intelligent Community III, No.1301-88
Guanguang Road, Shenzhen, China
Product Name : Veterinary Digital Detector and Imaging System
Model No. : VetiPad M1 Plus, VetiPad M1
Standards..... : FCC 47CFR Part 15 Section 15.407
Date of Receipt sample..... : 2024-10-11
Date of Test..... : 2024-10-11 to 2024-10-17
Date of Issue : 2024-10-29
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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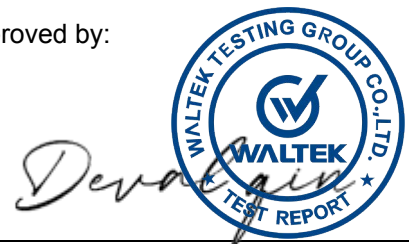
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3 Revision History

Test Report No.	Date of Receipt Sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTD24D09217336W002	2024-10-11	2024-10-11 to 2024-10-17	2024-10-29	Original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	Veterinary Digital Detector and Imaging System
Model(s):	VetiPad M1 Plus, VetiPad M1
Test Sample No.:	1-1/2, 1-2/2
Model Description:	N/A
Wi-Fi Specification:	802.11a/ n(HT20/40)/ac VHT(20/40/80)
Hardware Version:	04
Software Version:	22.0

4.2 Details of E.U.T.

Operation Frequency:	U-NII-1 802.11a/n (HT20) /ac (HT20), 5180-5240MHz 4CH 802.11n (HT40) /ac (HT40), 5190-5230MHz 2CH 802.11ac (HT80), 5210MHz 1CH U-NII-3 802.11a/n (HT20)/ac (HT20), 5745-5825MHz 5CH 802.11n (HT40)/ ac (HT40), 5755-5795MHz 2CH 802.11ac (HT80), 5775MHz 1CH											
Max. RF output power:	U-NII-1 Ant. 0: 15.87dBm, Ant. 1: 15.98 dBm, Total: 18.94 dBm U-NII-3: Ant. 0: 13.98dBm, Ant. 1: 13.95 dBm, Total: 17.10 dBm											
Type of Modulation:	802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)											
Antenna installation:	FPC antenna											
Antenna Gain:	<table><tr><th rowspan="2">Ant.</th><th colspan="2">Operation Frequencies (MHz) /Antenna Gain (dBi)</th></tr><tr><th>5150~5250</th><th>5725~5850</th></tr><tr><td>0</td><td>2.25</td><td>1.81</td></tr><tr><td>1</td><td>2.25</td><td>1.81</td></tr></table>	Ant.	Operation Frequencies (MHz) /Antenna Gain (dBi)		5150~5250	5725~5850	0	2.25	1.81	1	2.25	1.81
Ant.	Operation Frequencies (MHz) /Antenna Gain (dBi)											
	5150~5250	5725~5850										
0	2.25	1.81										
1	2.25	1.81										

Note:

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

Ratings:	DC 15V 2.0A
Battery:	DC 11.1V 3800mAh

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.

The duty cycle of transmitting is maximum.

The software is SecureCRT.

Test Items	Mode	Data Rate	TX/RX
Radiated Emissions	802.11a (HT20)	6 Mbps	TX
	802.11n/ac(HT20/40/80)	MCS0	TX
Conducted Emissions	802.11a (HT20)	6 Mbps	TX
	802.11n/ac(HT20/40/80)	MCS0	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
Conducted Emissions Test Site 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	2024-04-22	2025-04-21
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)	-	2024-04-22	2025-04-21
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120D	667	2024-01-23	2025-01-22
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	-	2024-04-22	2025-04-21
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	2024-04-22	2025-04-21
3m Semi-anechoic Chamber for Radiation Emissions 2#						
1	Test Receiver	R&S	ESCI	101296	2024-04-22	2025-04-21
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2023-11-04	2024-11-03
3	Active Loop Antenna	Com-Power	AL-130R	10160007	2024-04-27	2025-04-26
4	Amplifier	ANRITSU	MH648A	M43381	2024-04-22	2025-04-21
5	Cable	HUBER+SUHNER	CBL2	525178	2024-04-22	2025-04-21

Test Software:

Test Item	Software name	Software version
Conduction disturbance 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
Note: Pass=Compliance; NC=Not Compliance; NT=Not Tested; N/A=Not Applicable		

7 Conducted Emission

Test Requirement: FCC 47CFR Part 15 Section 15.207

Test Method: ANSI C63.10:2013

Test Result: PASS

Frequency Range: 150kHz to 30MHz

Limit:

Frequency (MHz)	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

7.1 E.U.T. Operation

Operating Environment :

Temperature: 27.9 °C

Humidity: 44.1 % RH

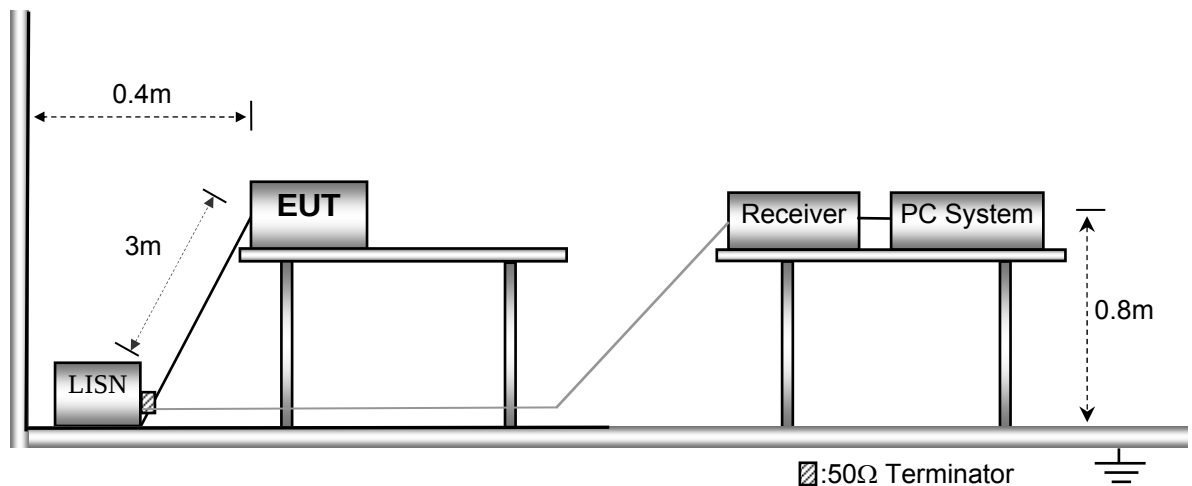
Atmospheric Pressure: 101.2kPa

EUT Operation :

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

7.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10:2013.



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.

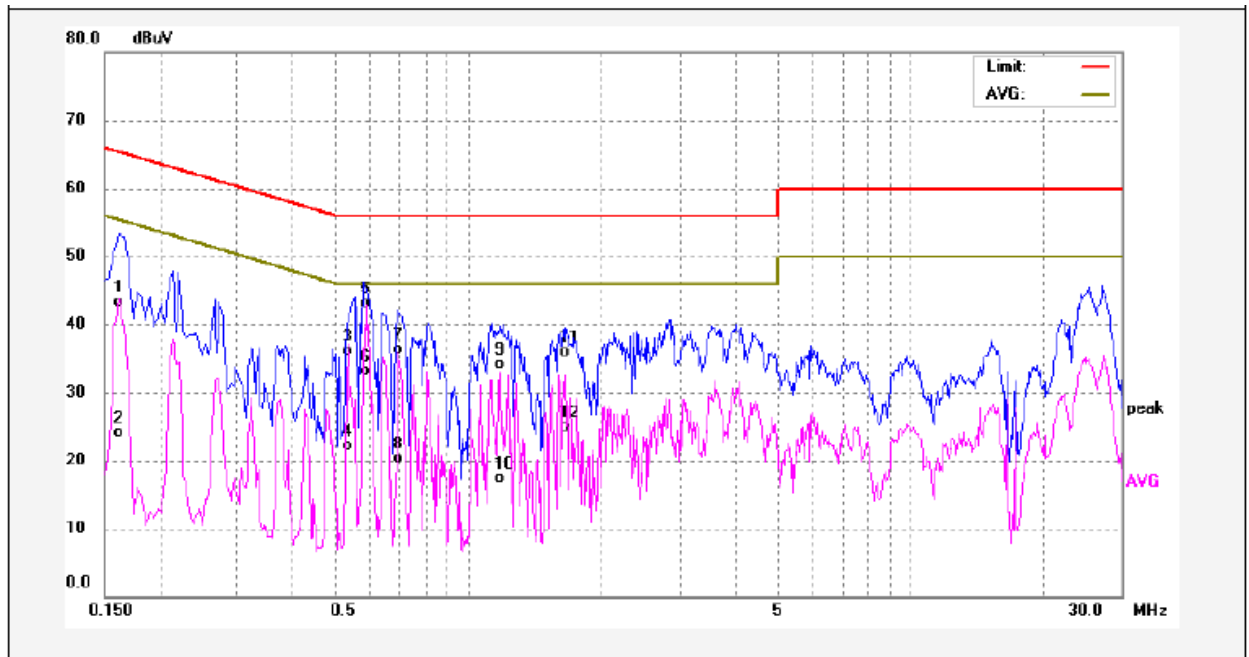
7.4 Conducted Emission Test Result

An initial pre-scan was performed on the live and neutral lines.

Live line:

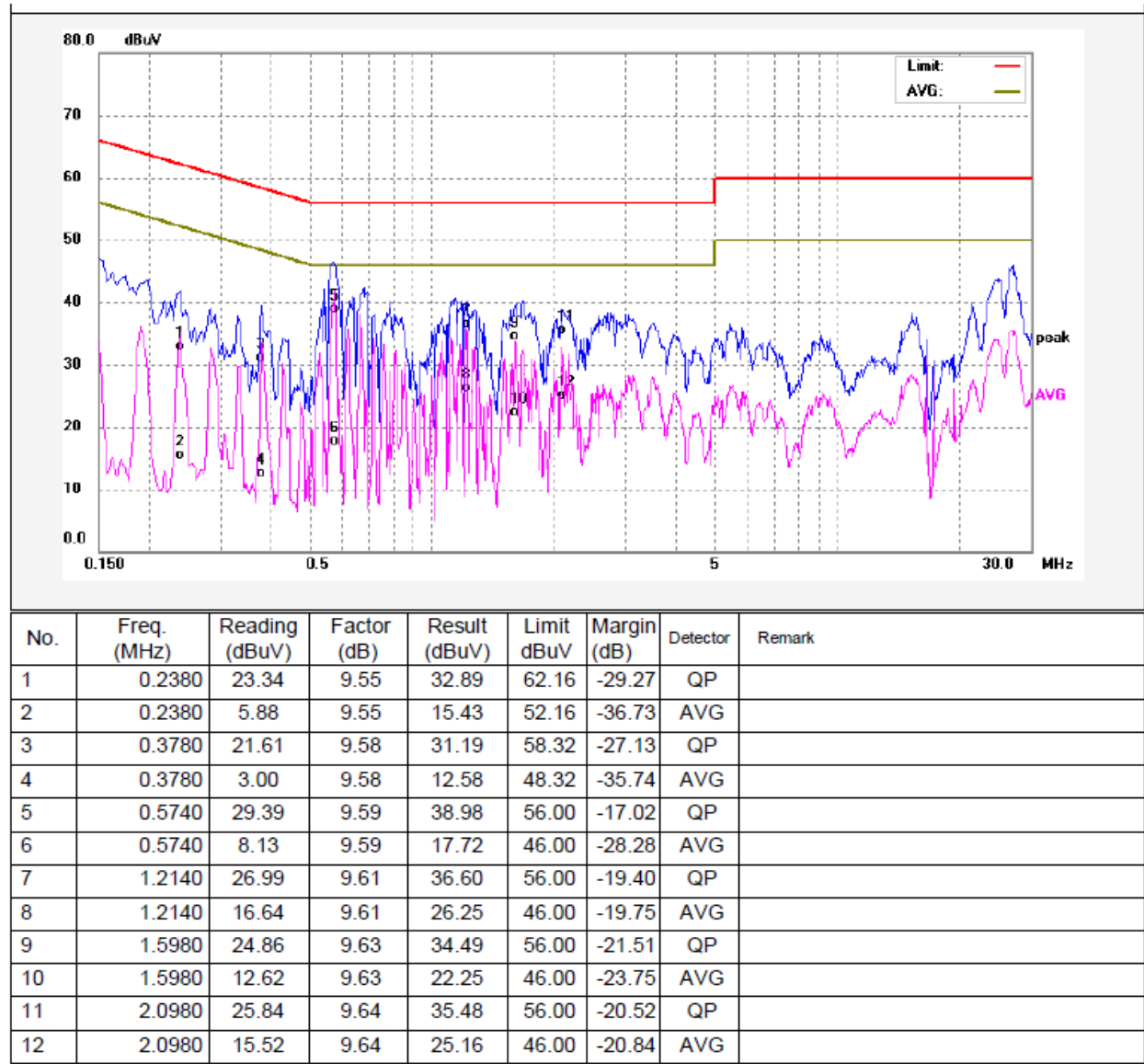
Model : VetiPad M1

Live line:



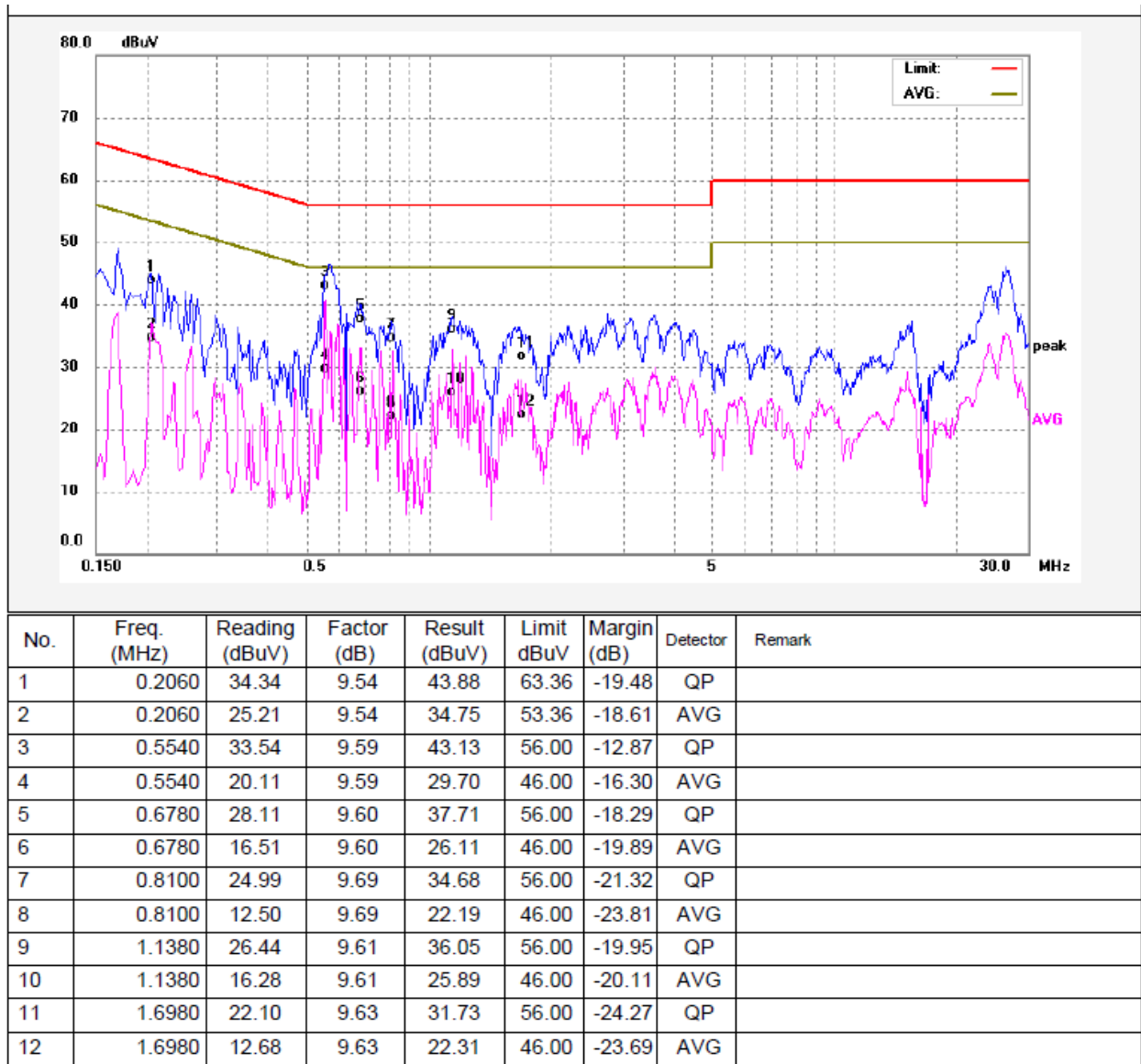
No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1620	33.72	9.52	43.24	65.36	-22.12	QP	
2	0.1620	14.62	9.52	24.14	55.36	-31.22	AVG	
3	0.5340	26.52	9.59	36.11	56.00	-19.89	QP	
4	0.5340	12.56	9.59	22.15	46.00	-23.85	AVG	
5	0.5899	33.45	9.59	43.04	56.00	-12.96	QP	
6	0.5899	23.46	9.59	33.05	46.00	-12.95	AVG	
7	0.6940	26.79	9.60	36.39	56.00	-19.61	QP	
8	0.6940	10.67	9.60	20.27	46.00	-25.73	AVG	
9	1.1740	24.58	9.61	34.19	56.00	-21.81	QP	
10	1.1740	7.62	9.61	17.23	46.00	-28.77	AVG	
11	1.6540	26.28	9.63	35.91	56.00	-20.09	QP	
12	1.6540	15.26	9.63	24.89	46.00	-21.11	AVG	

Neutral line:

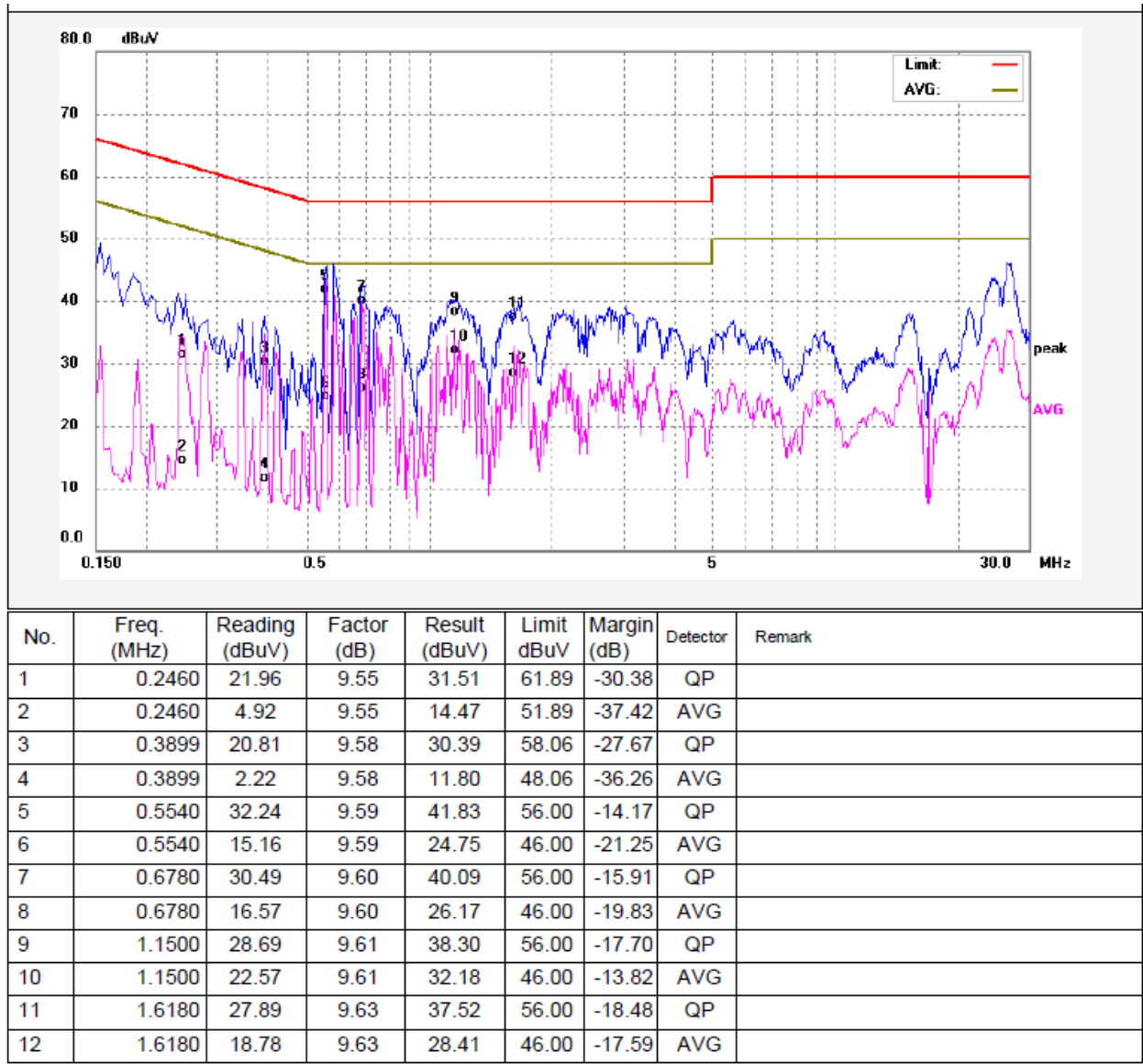


Model : VetiPad M1 Plus

Live line:



Neutral line:



8 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	$20\log^{(500)}$

8.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

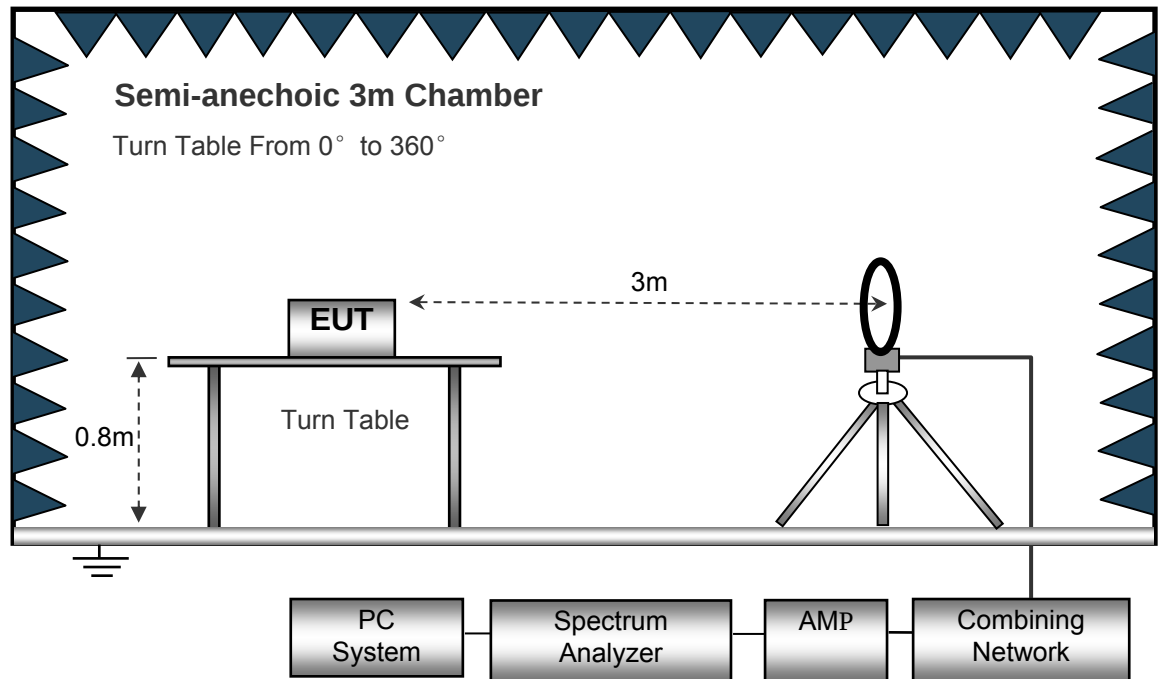
EUT Operation :

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

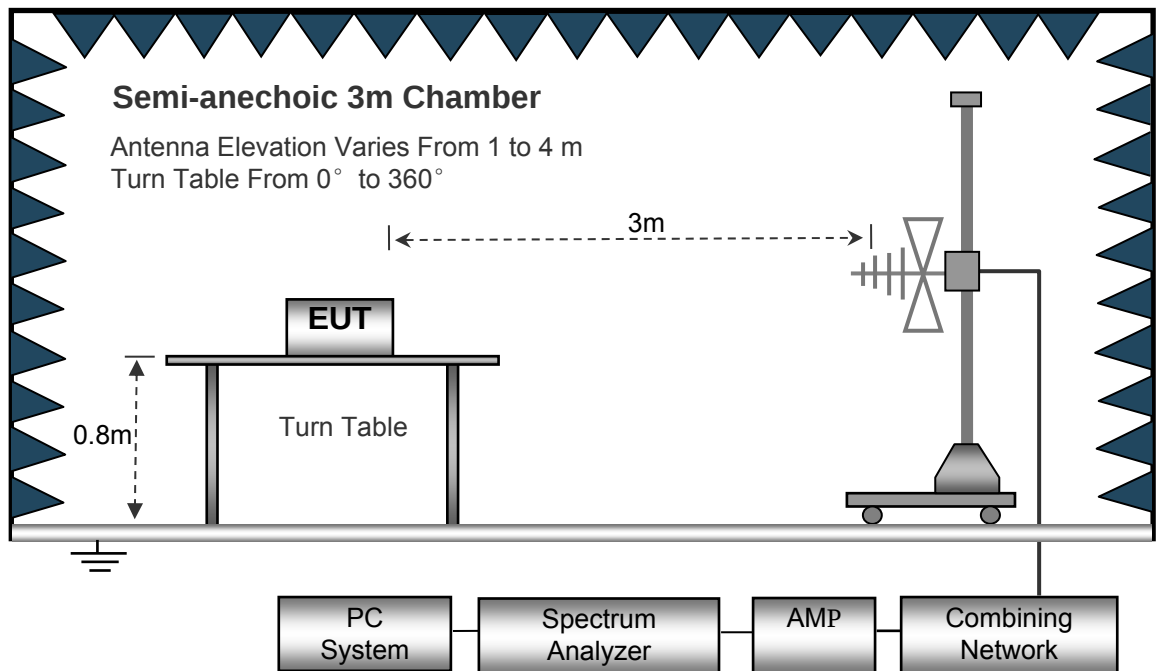
8.2 Test Setup

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

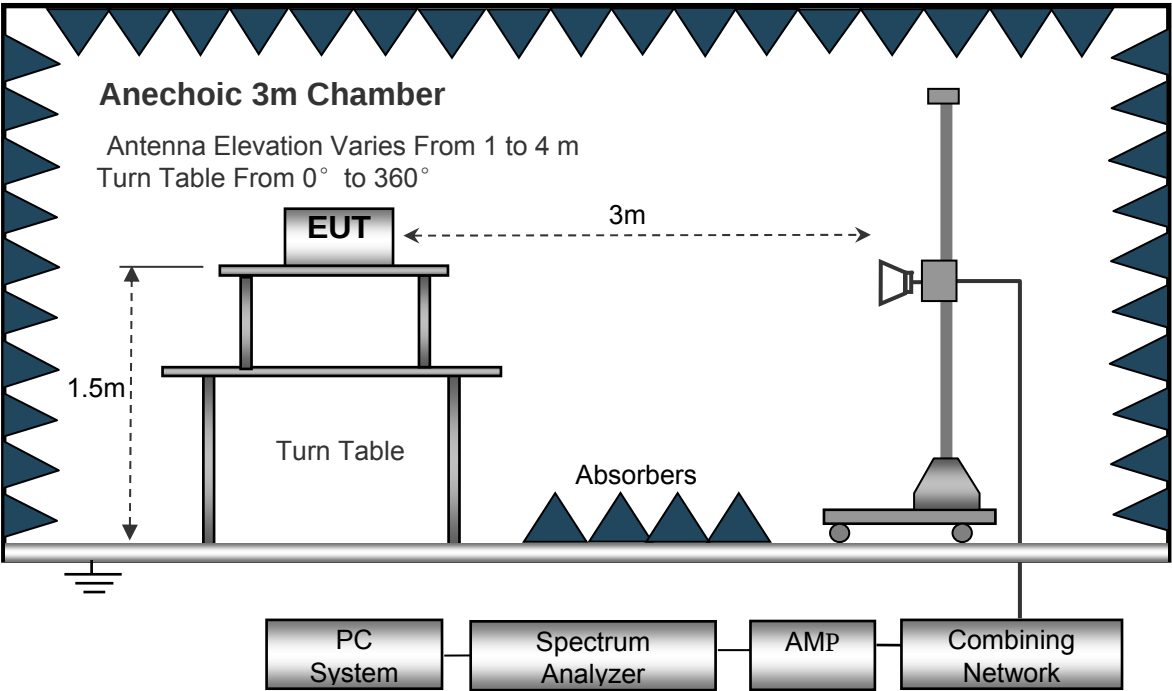
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1 GHz.



8.3 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

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 mode were tested, and only the worst-case were record in the report.

Test Mode: TX (Ant. 1+ Ant. 2)

Test Frequency: 9KHz~30MHz

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

Test Frequency : 30MHz ~ 18GHz

Model: VetiPad M1 Plus

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									
266.51	39.75	QP	147	1.6	H	-11.62	28.13	46.00	-17.87
266.51	42.91	QP	63	2.0	V	-11.62	31.29	46.00	-14.71
4527.91	53.83	PK	287	1.3	H	-2.03	51.80	74.00	-22.20
4527.91	44.12	Ave	287	1.3	H	-2.03	42.09	54.00	-11.91
5132.02	53.30	PK	140	1.4	H	-1.02	52.28	74.00	-21.72
5132.02	44.62	Ave	140	1.4	H	-1.02	43.60	54.00	-10.40
10360.00	41.26	PK	215	1.7	H	5.33	46.59	74.00	-27.41
10360.00	37.79	Ave	215	1.7	H	5.33	43.12	54.00	-10.88
802.11a U-NII-1 Middle channel 5200MHz									
266.51	38.42	QP	51	1.8	H	-11.62	26.80	46.00	-19.20
266.51	43.18	QP	106	1.8	V	-11.62	31.56	46.00	-14.44
4520.68	52.62	PK	17	1.3	H	-1.94	50.68	74.00	-23.32
4520.68	43.43	Ave	17	1.3	H	-1.94	41.49	54.00	-12.51
5141.50	54.19	PK	213	1.7	H	-1.06	53.13	74.00	-20.87
5141.50	44.78	Ave	213	1.7	H	-1.06	43.72	54.00	-10.28
10400.00	40.21	PK	235	1.9	H	5.21	45.42	74.00	-28.58
10400.00	37.35	Ave	235	1.9	H	5.21	42.56	54.00	-11.44

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)
802.11a U-NII-1 High channel 5240MHz									
266.51	38.40	QP	53	1.3	H	-11.62	26.78	46.00	-19.22
266.51	42.84	QP	231	1.5	V	-11.62	31.22	46.00	-14.78
4530.54	52.26	PK	302	1.1	H	-2.24	50.02	74.00	-23.98
4530.54	42.02	Ave	302	1.1	H	-2.24	39.78	54.00	-14.22
5124.35	54.41	PK	130	1.6	H	-1.09	53.32	74.00	-20.68
5124.35	45.80	Ave	130	1.6	H	-1.09	44.71	54.00	-9.29
10480.00	40.21	PK	101	1.1	H	5.14	45.35	74.00	-28.65
10480.00	37.46	Ave	101	1.1	H	5.14	42.60	54.00	-11.40
802.11a U-NII-3 Low Channel 5745MHz									
266.51	39.72	QP	16	1.8	H	-11.62	28.10	46.00	-17.90
266.51	43.34	QP	310	1.7	V	-11.62	31.72	46.00	-14.28
4532.17	52.88	PK	220	1.6	H	-2.06	50.82	74.00	-23.18
4532.17	42.63	Ave	220	1.6	H	-2.06	40.57	54.00	-13.43
5351.30	42.23	PK	187	1.2	H	5.93	48.16	74.00	-25.84
5351.30	36.48	Ave	187	1.2	H	5.93	42.41	54.00	-11.59
11490.00	46.09	PK	48	1.5	H	-1.25	44.84	74.00	-29.16
11490.00	38.16	Ave	48	1.5	H	-1.25	36.91	54.00	-17.09

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									
266.51	40.25	QP	231	1.5	H	-11.62	28.63	46.00	-17.37
266.51	44.67	QP	16	1.0	V	-11.62	33.05	46.00	-12.95
4521.15	51.76	PK	260	1.6	H	-2.03	49.73	74.00	-24.27
4521.15	41.24	Ave	260	1.6	H	-2.03	39.21	54.00	-14.79
5384.09	41.02	PK	336	1.6	H	5.81	46.83	74.00	-27.17
5384.09	36.40	Ave	336	1.6	H	5.81	42.21	54.00	-11.79
11570.00	45.54	PK	225	1.9	H	-1.22	44.32	74.00	-29.68
11570.00	37.19	Ave	225	1.9	H	-1.22	35.97	54.00	-18.03
802.11a U-NII-3 High channel 5825MHz									
266.51	40.22	QP	318	1.8	H	-11.62	28.60	46.00	-17.40
266.51	45.58	QP	308	1.4	V	-11.62	33.96	46.00	-12.04
4505.09	51.38	PK	218	1.0	H	-1.84	49.54	74.00	-24.46
4505.09	41.77	Ave	218	1.0	H	-1.84	39.93	54.00	-14.07
5385.54	40.73	PK	262	1.8	H	5.84	46.57	74.00	-27.43
5385.54	37.89	Ave	262	1.8	H	5.84	43.73	54.00	-10.27
11650.00	45.60	PK	200	1.5	H	-1.30	44.30	74.00	-29.70
11650.00	38.04	Ave	200	1.5	H	-1.30	36.74	54.00	-17.26

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)
802.11n(HT20) U-NII-1 Low Channel 5180MHz									
266.51	39.13	QP	207	1.0	H	-11.62	27.51	46.00	-18.49
266.51	45.53	QP	36	1.6	V	-11.62	33.91	46.00	-12.09
4532.00	52.58	PK	94	2.0	H	-2.14	50.44	74.00	-23.56
4532.00	41.44	Ave	94	2.0	H	-2.14	39.30	54.00	-14.70
5146.84	45.02	PK	355	1.3	H	-1.06	43.96	74.00	-30.04
5146.84	38.06	Ave	355	1.3	H	-1.06	37.00	54.00	-17.00
10360.00	40.43	PK	211	2.0	H	5.33	45.76	74.00	-28.24
10360.00	39.25	Ave	211	2.0	H	5.33	44.58	54.00	-9.42
802.11n(HT20) U-NII-1 Middle channel 5200MHz									
266.51	40.61	QP	24	1.2	H	-11.62	28.99	46.00	-17.01
266.51	45.59	QP	154	1.6	V	-11.62	33.97	46.00	-12.03
4517.10	52.14	PK	64	1.3	H	-2.12	50.02	74.00	-23.98
4517.10	41.36	Ave	64	1.3	H	-2.12	39.24	54.00	-14.76
5112.47	45.52	PK	77	1.8	H	-1.06	44.46	74.00	-29.54
5112.47	38.81	Ave	77	1.8	H	-1.06	37.75	54.00	-16.25
10400.00	40.04	PK	22	1.2	H	5.21	45.25	74.00	-28.75
10400.00	37.46	Ave	22	1.2	H	5.21	42.67	54.00	-11.33

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									
266.51	40.38	QP	122	2.0	H	-11.62	28.76	46.00	-17.24
266.51	44.19	QP	224	1.7	V	-11.62	32.57	46.00	-13.43
4526.13	53.64	PK	53	1.7	H	-1.96	51.68	74.00	-22.32
4526.13	41.18	Ave	53	1.7	H	-1.96	39.22	54.00	-14.78
5147.02	46.03	PK	36	1.2	H	-1.06	44.97	74.00	-29.03
5147.02	40.25	Ave	36	1.2	H	-1.06	39.19	54.00	-14.81
10480.00	42.06	PK	181	1.6	H	5.14	47.20	74.00	-26.80
10480.00	36.52	Ave	181	1.6	H	5.14	41.66	54.00	-12.34
802.11n(HT20) U-NII-3 Low Channel 5745MHz									
266.51	43.51	QP	289	1.0	H	-11.62	31.89	46.00	-14.11
266.51	48.41	QP	301	1.2	V	-11.62	36.79	46.00	-9.21
4508.69	41.03	PK	97	1.2	H	-2.06	38.97	74.00	-35.03
4508.69	46.81	Ave	97	1.2	H	-2.06	44.75	54.00	-9.25
5359.64	39.70	PK	87	1.4	H	5.93	45.63	74.00	-28.37
5359.64	37.00	Ave	87	1.4	H	5.93	42.93	54.00	-11.07
11490.00	46.32	PK	250	1.5	H	-1.25	45.07	74.00	-28.93
11490.00	38.08	Ave	250	1.5	H	-1.25	36.83	54.00	-17.17

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									
266.51	44.24	QP	98	1.4	H	-11.62	32.62	46.00	-13.38
266.51	44.70	QP	360	1.6	V	-11.62	33.08	46.00	-12.92
4527.84	41.88	PK	248	1.8	H	-2.03	39.85	74.00	-34.15
4527.84	45.47	Ave	248	1.8	H	-2.03	43.44	54.00	-10.56
5367.11	38.14	PK	96	1.1	H	5.81	43.95	74.00	-30.05
5367.11	39.73	Ave	96	1.1	H	5.81	45.54	54.00	-8.46
11570.00	45.65	PK	277	1.5	H	-1.22	44.43	74.00	-29.57
11570.00	38.88	Ave	277	1.5	H	-1.22	37.66	54.00	-16.34
802.11n(HT20) U-NII-3 High channel 5825MHz									
266.51	45.00	QP	146	1.6	H	-11.62	33.38	46.00	-12.62
266.51	45.07	QP	343	1.9	V	-11.62	33.45	46.00	-12.55
4536.17	40.40	PK	226	1.9	H	-1.84	38.56	74.00	-35.44
4536.17	46.31	Ave	226	1.9	H	-1.84	44.47	54.00	-9.53
5351.69	39.81	PK	82	1.0	H	5.84	45.65	74.00	-28.35
5351.69	40.65	Ave	82	1.0	H	5.84	46.49	54.00	-7.51
11650.00	45.75	PK	301	1.8	H	-1.30	44.45	74.00	-29.55
11650.00	38.07	Ave	301	1.8	H	-1.30	36.77	54.00	-17.23

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									
266.51	39.42	QP	276	1.6	H	-11.62	27.80	46.00	-18.20
266.51	42.63	QP	57	1.6	V	-11.62	31.01	46.00	-14.99
4508.21	44.59	PK	103	1.6	H	-1.89	42.70	74.00	-31.30
4508.21	33.91	Ave	103	1.6	H	-1.89	32.02	54.00	-21.98
5126.58	46.68	PK	266	1.1	H	-1.06	45.62	74.00	-28.38
5126.58	37.81	Ave	266	1.1	H	-1.06	36.75	54.00	-17.25
10380.00	40.12	PK	17	1.8	H	5.26	45.38	74.00	-28.62
10380.00	35.42	Ave	17	1.8	H	5.26	40.68	54.00	-13.32
802.11n(HT40) U-NII-1 High channel 5230MHz									
266.51	39.39	QP	208	1.6	H	-11.62	27.77	46.00	-18.23
266.51	41.91	QP	332	1.4	V	-11.62	30.29	46.00	-15.71
4524.24	45.37	PK	43	1.4	H	-1.94	43.43	74.00	-30.57
4524.24	33.97	Ave	43	1.4	H	-1.94	32.03	54.00	-21.97
5117.50	46.24	PK	178	2.0	H	-1.06	45.18	74.00	-28.82
5117.50	38.00	Ave	178	2.0	H	-1.06	36.94	54.00	-17.06
10460.00	40.69	PK	289	2.0	H	5.28	45.97	74.00	-28.03
10460.00	37.69	Ave	289	2.0	H	5.28	42.97	54.00	-11.03

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									
266.51	38.22	QP	44	1.4	H	-11.62	26.60	46.00	-19.40
266.51	40.45	QP	225	1.1	V	-11.62	28.83	46.00	-17.17
4526.16	42.66	PK	222	1.6	H	-1.96	40.70	74.00	-33.30
4526.16	32.77	Ave	222	1.6	H	-1.96	30.81	54.00	-23.19
5387.03	39.77	PK	91	1.6	H	5.88	45.65	74.00	-28.35
5387.03	35.26	Ave	91	1.6	H	5.88	41.14	54.00	-12.86
11510.00	45.85	PK	52	1.1	H	-1.01	44.84	74.00	-29.16
11510.00	39.89	Ave	52	1.1	H	-1.01	38.88	54.00	-15.12
802.11n(HT40) U-NII-3 High Channel 5795MHz									
266.51	38.44	QP	247	1.8	H	-11.62	26.82	46.00	-19.18
266.51	40.78	QP	254	1.1	V	-11.62	29.16	46.00	-16.84
4508.50	41.93	PK	213	1.3	H	-1.92	40.01	74.00	-33.99
4508.50	32.45	Ave	213	1.3	H	-1.92	30.53	54.00	-23.47
5353.58	42.22	PK	101	1.6	H	5.63	47.85	74.00	-26.15
5353.58	38.04	Ave	101	1.6	H	5.63	43.67	54.00	-10.33
11590.00	46.59	PK	227	1.8	H	-1.04	45.55	74.00	-28.45
11590.00	38.25	Ave	227	1.8	H	-1.04	37.21	54.00	-16.79

Model: VetiPad M1

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									
266.51	40.11	QP	320	1.3	H	-11.62	28.49	46.00	-17.51
266.51	43.13	QP	63	1.3	V	-11.62	31.51	46.00	-14.49
4504.41	53.92	PK	329	1.8	H	-2.03	51.89	74.00	-22.11
4504.41	44.19	Ave	329	1.8	H	-2.03	42.16	54.00	-11.84
5127.84	52.83	PK	284	1.6	H	-1.02	51.81	74.00	-22.19
5127.84	44.66	Ave	284	1.6	H	-1.02	43.64	54.00	-10.36
10360.00	41.63	PK	206	1.1	H	5.33	46.96	74.00	-27.04
10360.00	38.00	Ave	206	1.1	H	5.33	43.33	54.00	-10.67
802.11a U-NII-1 Middle channel 5200MHz									
266.51	39.32	QP	318	1.8	H	-11.62	27.70	46.00	-18.30
266.51	42.49	QP	333	1.8	V	-11.62	30.87	46.00	-15.13
4533.09	55.06	PK	104	1.9	H	-1.94	53.12	74.00	-20.88
4533.09	42.71	Ave	104	1.9	H	-1.94	40.77	54.00	-13.23
5130.96	52.23	PK	339	1.3	H	-1.06	51.17	74.00	-22.83
5130.96	45.04	Ave	339	1.3	H	-1.06	43.98	54.00	-10.02
10400.00	40.85	PK	1	1.3	H	5.21	46.06	74.00	-27.94
10400.00	39.17	Ave	1	1.3	H	5.21	44.38	54.00	-9.62

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									
266.51	39.03	QP	27	1.5	H	-11.62	27.41	46.00	-18.59
266.51	41.89	QP	341	1.4	V	-11.62	30.27	46.00	-15.73
4532.60	55.69	PK	358	1.8	H	-2.24	53.45	74.00	-20.55
4532.60	43.46	Ave	358	1.8	H	-2.24	41.22	54.00	-12.78
5112.68	53.00	PK	43	1.3	H	-1.09	51.91	74.00	-22.09
5112.68	45.02	Ave	43	1.3	H	-1.09	43.93	54.00	-10.07
10480.00	41.94	PK	81	1.9	H	5.14	47.08	74.00	-26.92
10480.00	38.02	Ave	81	1.9	H	5.14	43.16	54.00	-10.84
802.11a U-NII-3 Low Channel 5745MHz									
266.51	39.61	QP	140	1.2	H	-11.62	27.99	46.00	-18.01
266.51	40.67	QP	239	1.8	V	-11.62	29.05	46.00	-16.95
4529.25	54.43	PK	137	1.7	H	-2.06	52.37	74.00	-21.63
4529.25	41.98	Ave	137	1.7	H	-2.06	39.92	54.00	-14.08
5378.61	43.13	PK	94	1.7	H	5.93	49.06	74.00	-24.94
5378.61	37.05	Ave	94	1.7	H	5.93	42.98	54.00	-11.02
11490.00	45.66	PK	139	1.6	H	-1.25	44.41	74.00	-29.59
11490.00	37.11	Ave	139	1.6	H	-1.25	35.86	54.00	-18.14

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									
266.51	40.89	QP	328	1.4	H	-11.62	29.27	46.00	-16.73
266.51	39.27	QP	1	1.3	V	-11.62	27.65	46.00	-18.35
4530.47	55.12	PK	182	1.0	H	-2.03	53.09	74.00	-20.91
4530.47	40.90	Ave	182	1.0	H	-2.03	38.87	54.00	-15.13
5369.52	40.82	PK	80	1.5	H	5.81	46.63	74.00	-27.37
5369.52	36.70	Ave	80	1.5	H	5.81	42.51	54.00	-11.49
11570.00	46.23	PK	93	1.9	H	-1.22	45.01	74.00	-28.99
11570.00	39.29	Ave	93	1.9	H	-1.22	38.07	54.00	-15.93
802.11a U-NII-3 High channel 5825MHz									
266.51	39.93	QP	329	1.8	H	-11.62	28.31	46.00	-17.69
266.51	38.72	QP	268	1.7	V	-11.62	27.10	46.00	-18.90
4513.52	54.13	PK	100	1.7	H	-1.84	52.29	74.00	-21.71
4513.52	41.31	Ave	100	1.7	H	-1.84	39.47	54.00	-14.53
5352.96	40.39	PK	90	1.1	H	5.84	46.23	74.00	-27.77
5352.96	37.57	Ave	90	1.1	H	5.84	43.41	54.00	-10.59
11650.00	45.93	PK	167	1.5	H	-1.30	44.63	74.00	-29.37
11650.00	38.98	Ave	167	1.5	H	-1.30	37.68	54.00	-16.32

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									
266.51	39.78	QP	287	1.8	H	-11.62	28.16	46.00	-17.84
266.51	38.96	QP	246	1.4	V	-11.62	27.34	46.00	-18.66
4504.27	53.21	PK	269	1.5	H	-2.14	51.07	74.00	-22.93
4504.27	40.55	Ave	269	1.5	H	-2.14	38.41	54.00	-15.59
5110.25	47.99	PK	280	1.9	H	-1.06	46.93	74.00	-27.07
5110.25	39.11	Ave	280	1.9	H	-1.06	38.05	54.00	-15.95
10360.00	42.64	PK	271	1.5	H	5.33	47.97	74.00	-26.03
10360.00	38.82	Ave	271	1.5	H	5.33	44.15	54.00	-9.85
802.11n(HT20) U-NII-1 Middle channel 5200MHz									
266.51	38.97	QP	253	1.4	H	-11.62	27.35	46.00	-18.65
266.51	38.67	QP	29	1.1	V	-11.62	27.05	46.00	-18.95
4529.41	54.50	PK	331	1.5	H	-2.12	52.38	74.00	-21.62
4529.41	39.11	Ave	331	1.5	H	-2.12	36.99	54.00	-17.01
5115.34	49.57	PK	58	1.8	H	-1.06	48.51	74.00	-25.49
5115.34	40.48	Ave	58	1.8	H	-1.06	39.42	54.00	-14.58
10400.00	42.53	PK	311	1.6	H	5.21	47.74	74.00	-26.26
10400.00	38.91	Ave	311	1.6	H	5.21	44.12	54.00	-9.88

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									
266.51	40.44	QP	187	1.2	H	-11.62	28.82	46.00	-17.18
266.51	39.27	QP	59	1.2	V	-11.62	27.65	46.00	-18.35
4517.16	53.67	PK	129	2.0	H	-1.96	51.71	74.00	-22.29
4517.16	39.96	Ave	129	2.0	H	-1.96	38.00	54.00	-16.00
5141.71	51.32	PK	221	1.1	H	-1.06	50.26	74.00	-23.74
5141.71	40.52	Ave	221	1.1	H	-1.06	39.46	54.00	-14.54
10480.00	42.74	PK	324	1.3	H	5.14	47.88	74.00	-26.12
10480.00	37.65	Ave	324	1.3	H	5.14	42.79	54.00	-11.21
802.11n(HT20) U-NII-3 Low Channel 5745MHz									
266.51	38.67	QP	69	1.4	H	-11.62	27.05	46.00	-18.95
266.51	50.20	QP	44	1.2	V	-11.62	38.58	46.00	-7.42
4520.14	39.41	PK	311	2.0	H	-2.06	37.35	74.00	-36.65
4520.14	51.72	Ave	311	2.0	H	-2.06	49.66	54.00	-4.34
5367.77	38.44	PK	4	1.6	H	5.93	44.37	74.00	-29.63
5367.77	38.49	Ave	4	1.6	H	5.93	44.42	54.00	-9.58
11490.00	46.16	PK	275	1.5	H	-1.25	44.91	74.00	-29.09
11490.00	38.82	Ave	275	1.5	H	-1.25	37.57	54.00	-16.43

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									
266.51	38.32	QP	59	1.0	H	-11.62	26.70	46.00	-19.30
266.51	45.99	QP	14	1.6	V	-11.62	34.37	46.00	-11.63
4500.70	38.29	PK	202	1.1	H	-2.03	36.26	74.00	-37.74
4500.70	50.87	Ave	202	1.1	H	-2.03	48.84	54.00	-5.16
5369.14	37.98	PK	127	1.4	H	5.81	43.79	74.00	-30.21
5369.14	36.74	Ave	127	1.4	H	5.81	42.55	54.00	-11.45
11570.00	45.70	PK	2	1.1	H	-1.22	44.48	74.00	-29.52
11570.00	37.15	Ave	2	1.1	H	-1.22	35.93	54.00	-18.07
802.11n(HT20) U-NII-3 High channel 5825MHz									
266.51	37.85	QP	333	1.9	H	-11.62	26.23	46.00	-19.77
266.51	46.74	QP	337	1.9	V	-11.62	35.12	46.00	-10.88
4539.72	39.47	PK	150	1.1	H	-1.84	37.63	74.00	-36.37
4539.72	50.45	Ave	150	1.1	H	-1.84	48.61	54.00	-5.39
5381.94	40.05	PK	13	1.3	H	5.84	45.89	74.00	-28.11
5381.94	37.98	Ave	13	1.3	H	5.84	43.82	54.00	-10.18
11650.00	46.14	PK	223	1.1	H	-1.30	44.84	74.00	-29.16
11650.00	38.67	Ave	223	1.1	H	-1.30	37.37	54.00	-16.63

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									
266.51	42.16	QP	243	1.5	H	-11.62	30.54	46.00	-15.46
266.51	36.91	QP	169	1.9	V	-11.62	25.29	46.00	-20.71
4538.30	43.12	PK	308	1.3	H	-1.89	41.23	74.00	-32.77
4538.30	33.99	Ave	308	1.3	H	-1.89	32.10	54.00	-21.90
5122.23	44.95	PK	115	1.0	H	-1.06	43.89	74.00	-30.11
5122.23	39.77	Ave	115	1.0	H	-1.06	38.71	54.00	-15.29
10380.00	39.48	PK	120	1.3	H	5.26	44.74	74.00	-29.26
10380.00	36.10	Ave	120	1.3	H	5.26	41.36	54.00	-12.64
802.11n(HT40) U-NII-1 High channel 5230MHz									
266.51	41.88	QP	347	1.6	H	-11.62	30.26	46.00	-15.74
266.51	36.78	QP	355	1.4	V	-11.62	25.16	46.00	-20.84
4516.20	42.67	PK	160	1.4	H	-1.94	40.73	74.00	-33.27
4516.20	33.97	Ave	160	1.4	H	-1.94	32.03	54.00	-21.97
5145.34	44.90	PK	47	1.7	H	-1.06	43.84	74.00	-30.16
5145.34	40.62	Ave	47	1.7	H	-1.06	39.56	54.00	-14.44
10460.00	42.61	PK	197	1.8	H	5.28	47.89	74.00	-26.11
10460.00	37.45	Ave	197	1.8	H	5.28	42.73	54.00	-11.27

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									
266.51	41.44	QP	290	1.7	H	-11.62	29.82	46.00	-16.18
266.51	37.11	QP	94	1.9	V	-11.62	25.49	46.00	-20.51
4505.90	39.79	PK	131	1.9	H	-1.96	37.83	74.00	-36.17
4505.90	31.81	Ave	131	1.9	H	-1.96	29.85	54.00	-24.15
5389.74	39.34	PK	188	1.7	H	5.88	45.22	74.00	-28.78
5389.74	35.97	Ave	188	1.7	H	5.88	41.85	54.00	-12.15
11510.00	45.80	PK	183	1.9	H	-1.01	44.79	74.00	-29.21
11510.00	38.49	Ave	183	1.9	H	-1.01	37.48	54.00	-16.52
802.11n(HT40) U-NII-3 High Channel 5795MHz									
266.51	41.11	QP	16	1.6	H	-11.62	29.49	46.00	-16.51
266.51	37.92	QP	154	1.4	V	-11.62	26.30	46.00	-19.70
4512.37	39.41	PK	263	1.9	H	-1.92	37.49	74.00	-36.51
4512.37	31.22	Ave	263	1.9	H	-1.92	29.30	54.00	-24.70
5358.59	42.24	PK	342	1.5	H	5.63	47.87	74.00	-26.13
5358.59	37.10	Ave	342	1.5	H	5.63	42.73	54.00	-11.27
11590.00	45.43	PK	63	1.5	H	-1.04	44.39	74.00	-29.61
11590.00	38.30	Ave	63	1.5	H	-1.04	37.26	54.00	-16.74

Test Frequency: 18GHz~40GHz

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

9 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix-VetiPad M1& VetiPad M1 Plus-Photos.

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