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TEST REPORT

Product : iSteamAQX
Trade mark : iSteamAQX

Model/Type reference : P104544BK, P104544WH

Serial Number : N/A

Report Number : EED32O80040603

FCC ID : 2A5N4-HYDRO

Date of Issue : May 19, 2022

Test Standards : 47 CFR Part 15 Subpart E

Test result : PASS

Prepared for:

Mr. Steam

43-20 34th Street, Long Island City, NY 11101, USA

Prepared by:

Centre Testing International Group Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China

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Mark Chen

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Date:

May 19, 2022

Aaron Ma

Check No.:1119100122





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2 Version

Version No.	Date	Description	
00	May 19, 2022	Original	-04
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3 Test Summary

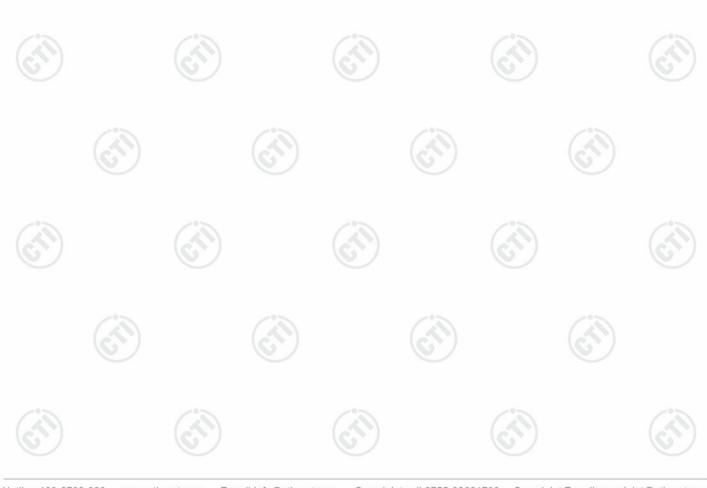
Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart E Section 15.407 (b)(9)	PASS
Duty Cycle	47 CFR Part 15 Subpart E Section 15.407	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
26dB emission bandwidth	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
99% Occupied bandwidth	1	PASS
6dB emission bandwidth	47 CFR Part 15 Subpart E Section 15.407 (e)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart E Section 15.407 (a)	PASS
Frequency stability	47 CFR Part 15 Subpart E Section 15.407 (g)	PASS
Radiated Emissions	47 CFR Part 15 Subpart E Section 15.407 (b)	PASS
Radiated Emissions which fall in the restricted bands	47 CFR Part 15 Subpart E Section 15.407 (b)	PASS

Remark

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

Model No.: P104544BK, P104544WH

Only the model P104544BK was tested, the difference between P104544BK and PP104544WH is only the color of the panel, BK represents the black panel, WH is the white panel, there is no other function, performance difference.







4 General Information

4.1 Client Information

Applicant:	Mr. Steam
Address of Applicant:	43-20 34th Street, Long Island City, NY 11101, USA
Manufacturer:	Mr. Steam
Address of Manufacturer:	43-20 34th Street, Long Island City, NY 11101, USA
Factory :	Estone Technology LTD
Address of Factory :	2F,Building No.1, Jia'an Industrial Park, No.2 Long Chang Road, Bao'an Shenzhen 518101, China.

4.2 General Description of EUT

-		
Product Name:	iSteamAQX	
Model/Type reference:	P104544BK, P104544WH	
Test Model No:	P104544BK	
Trade mark:	iSteamAQX	
Product Type:	☐ Mobile ☐ Portable ☒ Fix Location	
Type of Modulation:	IEEE 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11n(HT20/HT40): OFDM (BPSK, QPSK, 16QAM, 64QAM) IEEE 802.11ac(VHT20/VHT40/VHT80): OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)	
Operating Frequency	U-NII-1: 5180-5240MHz U-NII-3: 5745-5825MHz	
Antenna Type:	PCB Antenna	
Antenna Gain:	1.3dBi	
Power Supply:	Model: DYS836-120300W-K□□□□□ Input: 100-240V, 50/60Hz, 1.0A MAX Ouptut: 12.0V3.0A,36.0W	
Test voltage:	AC 120V	
Sample Received Date:	Jan. 11, 2022	
Sample tested Date:	Jan. 11, 2022 to Feb. 18, 2022	



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Operation Frequency each of channel

802.11a/802.11n/802.11ac (20MHz) Frequency/Channel Operations:

U-NII-1		U-NII-3	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
36	5180	149	5745
40	5200	153	5765
44	5220	157	5785
48	5240	161	5805
- 6) -	165	5825

802.11n/802.11ac (40MHz) Frequency/Channel Operations:

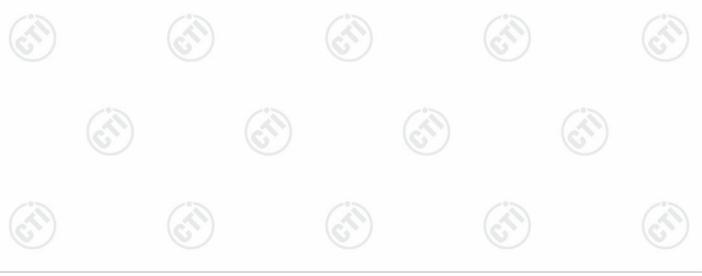
	U-NII-1		U-NII-3
Channel	Frequency(MHz)	Channel	Frequency(MHz)
38	5190	151	5755
46	5230	159	5795

802.11ac (80MHz) Frequency/Channel Operations:

	U-NII-1		U-NII-3
Channel	Frequency(MHz)	Channel	Frequency(MHz)
42	5210	155	5775

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:





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4.3 Test Configuration

EUT Test Software Settings:			
Test Software of EUT:	ADB	705	(1)
EUT Power Grade:	Class2 (Power level is built-in selected)	set parameters and cannot be c	changed and
Use test software to set the low transmitting of the EUT.	west frequency, the middle freque	ncy and the highest frequency l	keep
Test Mode:			
the EUT in transmitting operati	ion and function in typical operation, which was shown in this test in lowest channel, and found to	report and defined as follows:	ried out with
Mode		Data rate	
802.11a		6 Mbps	
802.11n(HT20) MCS0		(6.7)	
802.11n(HT40) MCS0			
802.11ac(VH	802.11ac(VHT20) MCS0		
802.11ac(VF	(40) MCS0		
802.11ac(VF			

4.4 Test Environment

Operating Environment:			
Radiated Spurious Emissions	5 :		
Temperature:	22~25.0 °C	(6,2)	(0,)
Humidity:	50~55 % RH		
Atmospheric Pressure:	1010mbar		
Conducted Emissions:			
Temperature:	22~25.0 °C		-(1)
Humidity:	50~55 % RH		
Atmospheric Pressure:	1010mbar		
RF Conducted:			
Humidity:	50~55 % RH		
Atmospheric Pressure:	1010mbar		
	NT (Normal Temperature)	22~25.0 °C	
Temperature:	LT (Low Temperature)	0 °C	
	HT (High Temperature)	60 °C	
(0,)	NV (Normal Voltage)	120 V	57)
Working Voltage of the EUT:	LV (Low Voltage)	100 V	
	HV (High Voltage)	240 V	

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4.5 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	DELL	Latitude 3490	CE&FCC	CTI

4.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

4.9 Other Information Requested by the Customer

Measurement Uncertainty (95% confidence levels, k=2) 4.10

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9 x 10 ⁻⁸
2	DC newer conducted	0.46dB (30MHz-1GHz)
2	RF power, conducted	0.55dB (1GHz-40GHz)
	_°	3.3dB (9kHz-30MHz)
3	Dedicted Spurious emission test	4.5dB (30MHz-1GHz)
3	Radiated Spurious emission test	4.8dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
4 Conduction emission	Conduction emission	3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%
100		









































































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5 Equipment List

Conducted disturbance Test							
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
Receiver	R&S	ESCI	100435	04-15-2021	04-14-2022		
Temperature/ Humidity Indicator	Defu	TH128	/				
LISN	R&S	ENV216	100098	03-04-2021 03-01-2022	03-03-2022 02-28-2023		
Barometer	changchun	DYM3	1188	\	() <u></u>		

		RF test	system			
Equipment	Manufacturer	Manufacturer Mode No.		Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-24-2021	12-23-2022	
Signal Generator	Keysight	N5182B	MY53051549	12-24-2021	12-23-2022	
Signal Generator	Agilent	N5181A	MY46240094	12-24-2021	12-23-2022	
DC Power	Keysight	E3642A	MY56376072	12-24-2021	12-23-2022	
Power unit	R&S	OSP120	101374	12-24-2021	12-23-2022	
RF control unit	JS Tonscend	JS0806-2	158060006	12-24-2021	12-23-2022	
Communication test set	R&S	CMW500	120765	08-04-2021	08-03-2022	
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-24-2021	12-23-2022	
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-24-2021	06-23-2022	
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	2.6.77.0518	- C		













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1 - (2)	3M Somi an	echoic Chamber (2)	Padiatod dist	urbanco Tost	2)
Equipment	Manufacturer	Model (2)	Serial No.	Cal. Date	Due Date
3M Chamber & Accessory Equipment	TDK	SAC-3		05/24/2019	05/23/2022
Receiver	R&S	ESCI7	100938-003	10/14/2021	10/13/2022
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/23/2019	05/22/2022
Multi device Controller	maturo	NCD/070/10711112			
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04-15-2021	04-14-2024
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024
Spectrum Analyzer	R&S	FSP40	100416	04/29/2021	04/28/2022
Microwave Preamplifier	Agilent	8449B	3008A02425	06/23/2021	06/22/2022





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1:5		12	/	Z:5		
		3M full-anechoi	c Chamber			
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)	
RSE Automatic test software	JS Tonscend	JS36-RSE	10166			
Receiver	Keysight	N9038A	MY57290136	03-04-2021 03-01-2022	03-03-2022 02-28-2023	
Spectrum Analyzer	Keysight	N9020B	MY57111112	03-04-2021 02-23-2022	03-03-2022 02-22-2023	
Spectrum Analyzer	Keysight	N9030B	MY57140871	03-04-2021 02-23-2022	03-03-2022 02-22-2023	
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024	
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024	
Horn Antenna	ETS-LINDGREN	3117	57407	07-04-2021	07-03-2024	
Preamplifier	EMCI	EMC184055SE	980597	05-20-2021	05-19-2022	
Preamplifier	EMCI	EMC001330	980563	04-15-2021	04-14-2022	
Preamplifier	JS Tonscend	980380	EMC051845SE	12-24-2021	12-23-2022	
Communication test set	R&S	CMW500	102898	12-24-2021	12-23-2022	
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-16-2021	04-15-2022	
Fully Anechoic Chamber	TDK	FAC-3		01-09-2021	01-08-2024	
Cable line	Times	SFT205-NMSM-2.50M	394812-0001			
Cable line	Times	SFT205-NMSM-2.50M	394812-0002		(6)	
Cable line	Times	SFT205-NMSM-2.50M	394812-0003			
Cable line	Times	SFT205-NMSM-2.50M	393495-0001			
Cable line	Times	EMC104-NMNM-1000	SN160710		<u> </u>	
Cable line	Times	SFT205-NMSM-3.00M	394813-0001			
Cable line	Times	SFT205-NMNM-1.50M	381964-0001		(2	
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	(C)	(6)	
Cable line	Times	HF160-KMKM-3.00M	393493-0001			



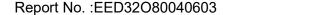














6 Radio Technical Requirements Specification

6.1 Antenna Requirement

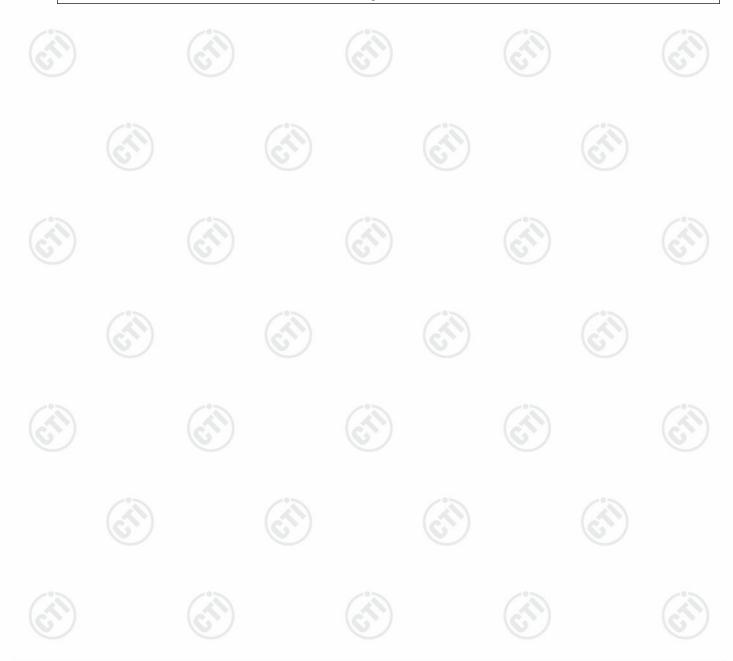
Standard requirement: 47 C	CFR Part 15C Section 15.203
----------------------------	-----------------------------

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.

EUT Antenna: Please see Internal photos

The antenna is PCB Antenna. The best case gain of the antenna is 1.3dBi.





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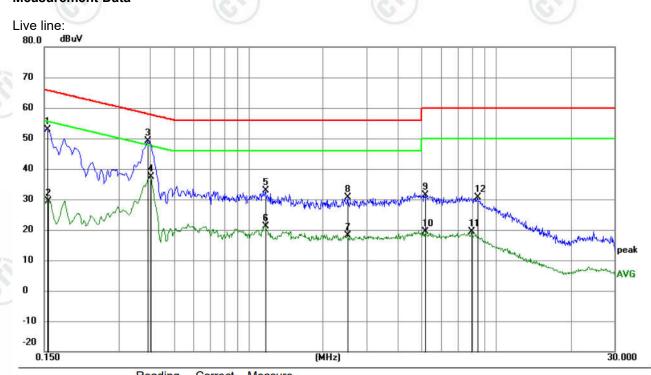
6.2 AC Power Line Conducted Emissions

Test Requirement: Test Method: ANSI C63.10: 2013 Test Frequency Range: Receiver setup: Limit: Frequency range (MHz) Ouasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 30 60 50 * Decreases with the logarithm of the frequency. Test Setup: Test Procedure: 1) The mains terminal disturbance voltage test was conducted in a shiel room. 2) The EUT was connected to AC power source through a LISN 1 (Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω lir impedance. The power cables of all other units of the EUT w 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 multiple socket outlet strip was used to connect multiple power cables 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 ground reference plane. And for floor-standing arrangement, the EUT placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. 4) The test was performed with a vertical ground reference plane. 4) The test was performed with a vertical ground reference plane. The rest the EUT shall be 0.4 m from the vertical ground reference plane.	<u> </u>	7 0 11 01 01 01 01 01 1 0 1 0 1 0 1 0 1	6.76	16.7	
Test Procedure: 150kHz to 30MHz Receiver setup: RBW=9 kHz, VBW=30 kHz, Sweep time=auto 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 Setup: 1) The mains terminal disturbance voltage test was conducted in a shiel room. 2) The EUT was connected to AC power source through a LISN 1 (Impedance Stabilization Network) which provides a 50,050 yll with the Summer of all to the ground reference plane in the same way as the LISN 1 for the unit so fi the EUT was 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 measure multiple socket outlet strip was used to connect multiple power cables 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 ground reference plane. And for floor-standing arrangement, the EUT placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The reactions are the same way as the vertical ground reference plane. The reactions are the EUT shall be 0.4 m from the vertical ground reference plane. The reactions are the EUT shall be 0.4 m from the vertical ground reference plane.	Test Requirement:	47 CFR Part 15C Section 15.20	07		
Receiver setup: RBW=9 kHz, VBW=30 kHz, Sweep time=auto	Test Method:				
Limit: Frequency range (MHz)	Test Frequency Range:	150kHz to 30MHz			
Test Procedure: 1) The mains terminal disturbance voltage test was conducted in a shiel room. 2) The EUT was connected to AC power source through a LISN 1 (Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω iri mpedance. The power cables of all other units of the EUT was onnected 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 multiple socket outlet strip was used to connect multiple power cables 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 ground reference plane. And for floor-standing arrangement, the EUT placed on the horizontal ground reference plane. The real the EUT shall be 0.4 m from the vertical ground reference plane. The real the EUT shall be 0.4 m from the vertical ground reference plane.		RBW=9 kHz, VBW=30 kHz, Sw	veep time=auto		
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* Decreases with the logarithm of the frequency. Test Setup: Test Procedure: 1) The mains terminal disturbance voltage test was conducted in a shiel room. 2) The EUT was connected to AC power source through a LISN 1 (Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω lift impedance. The power cables of all other units of the EUT was 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 multiple socket outlet strip was used to connect multiple power cables 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 ground reference plane. 4) The test was performed with a vertical ground reference plane. 4) The test was performed with a vertical ground reference plane. Test Procedure:		0.5-5	56	46	
Test Procedure: 1) The mains terminal disturbance voltage test was conducted in a shiel room. 2) The EUT was connected to AC power source through a LISN 1 (Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω lir impedance. The power cables of all other units of the EUT was 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 multiple socket outlet strip was used to connect multiple power cables 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 ground reference plane. And for floor-standing arrangement, the EUT placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. 4) The test was performed with a vertical ground reference plane.		5-30	60	50	
Test Procedure: 1) The mains terminal disturbance voltage test was conducted in a shiel room. 2) The EUT was connected to AC power source through a LISN 1 (Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω lir impedance. The power cables of all other units of the EUT was 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 multiple socket outlet strip was used to connect multiple power cables 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 ground reference plane. And for floor-standing arrangement, the EUT placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. 4) The test was performed with a vertical ground reference plane.		* Decreases with the logarithm	of the frequency.	705	
 room. 2) The EUT was connected to AC power source through a LISN 1 (I Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω lir impedance. The power cables of all other units of the EUT was connected to a second LISN 2, which was bonded to the ground refere plane in the same way as the LISN 1 for the unit being measured multiple socket outlet strip was used to connect multiple power cables 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 ground reference plane. And for floor-standing arrangement, the EUT placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The real the EUT shall be 0.4 m from the vertical ground reference plane. 	rest Setup:	EUT A	LISN2 → AC Mai		
reference plane. The LISN 1 was placed 0.8 m from the boundary of unit under test and bonded to a ground reference plane for LIS mounted on top of the ground reference plane. This distance was betw the closest points of the LISN 1 and the EUT. All other units of the E 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		 The EUT was connected impedance Stabilization Ne impedance. The power of connected to a second LISN plane in the same way as multiple socket outlet strip was ingle LISN provided the rate. The tabletop EUT was place ground reference plane. An placed on the horizontal ground reference with the EUT shall be 0.4 m fivertical ground reference reference plane. The LISN unit under test and bond mounted on top of the ground the closest points of the LI and associated equipment with the maximum. In order to find the maximum. 	etwork) which provides ables of all other N 2, which was bonde to the LISN 1 for the was used to connect ring of the LISN was red upon a non-metal of for floor-standing all ound reference plane. In a vertical ground reference plane was bonded 1 was placed 0.8 m led to a ground reference plane. To SN 1 and the EUT. Was at least 0.8 m from emission, the relation in the relation of the standard reference plane.	is a 50Ω/50μH + 5Ω lingunits of the EUT with the did to the ground refered unit being measured multiple power cables not exceeded. Illic table 0.8m above trangement, the EUT reference plane. The result of the horizontal ground from the boundary of the ference plane for List his distance was between the LISN 2. In the LISN 2. In the EUT reference plane for List is the LISN 2. In the LISN 2.	near were ence d. A to a e the was ar of The bund f the SNs ween EUT
ANSI C63.10: 2013 on conducted measurement.	- /	ANSI C63.10: 2013 on cond	lucted measurement.		
Test Mode: All modes were tested, only the worst case was recorded in the report.		•	worst case was reco	rded in the report.	
Test Voltage: AC 120V/60Hz					
Test Results: Pass					





Measurement Data



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1545	42.94	9.87	52.81	65.75	-12.94	QP	
2		0.1556	19.57	9.87	29.44	55.70	-26.26	AVG	-
3	*	0.3930	39.11	9.98	49.09	58.00	-8.91	QP	
4		0.4020	27.44	9.97	37.41	47.81	-10.40	AVG	
5		1.1760	23.07	9.82	32.89	56.00	-23.11	QP	
6		1.1760	11.43	9.82	21.25	46.00	-24.75	AVG	
7		2.5125	8.42	9.79	18.21	46.00	-27.79	AVG	
8		2.5260	20.93	9.79	30.72	56.00	-25.28	QP	2
9		5.1810	21.70	9.78	31.48	60.00	-28.52	QP	
10		5.1810	9.63	9.78	19.41	50.00	-30.59	AVG	
11		7.9755	9.64	9.79	19.43	50.00	-30.57	AVG	2
12		8.3805	20.74	9.79	30.53	60.00	-29.47	QP	

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.







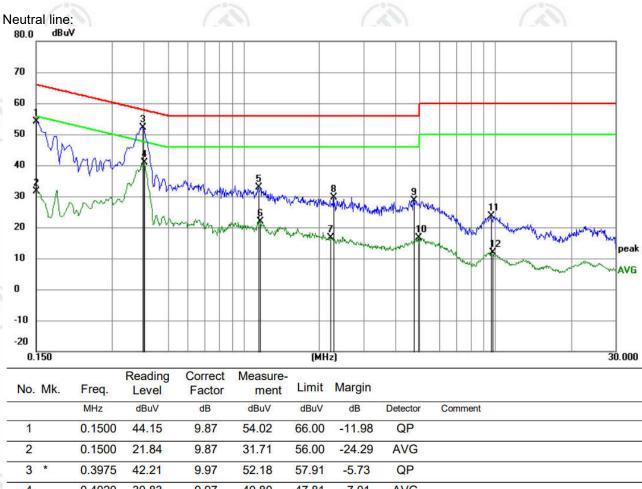












	2	0.1500	21.84	9.87	31.71	56.00	-24.29	AVG	
-	3 *	0.3975	42.21	9.97	52.18	57.91	-5.73	QP	
3	4	0.4020	30.83	9.97	40.80	47.81	-7.01	AVG	
3.	5	1.1445	23.09	9.82	32.91	56.00	-23.09	QP	
- 11-	6	1.1625	12.12	9.82	21.94	46.00	-24.06	AVG	
	7	2.2020	6.91	9.79	16.70	46.00	-29.30	AVG	
88	8	2.2785	19.88	9.79	29.67	56.00	-26.33	QP	
-	9	4.7625	18.89	9.78	28.67	56.00	-27.33	QP	
-	10	4.9425	6.90	9.78	16.68	46.00	-29.32	AVG	
	11	9.6225	13.91	9.78	23.69	60.00	-36.31	QP	
-	12	9.7530	2.07	9.78	11.85	50.00	-38.15	AVG	

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.















6.3 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C S	Section 15.407 (a)				
Test Method:	KDB789033 D02 G	General UNII Tes	t Procedures New Rule	s v02r01 Section		
Test Setup:	Control Computer Power Supply EUT Control potity) Artenn potity) Power potit	Attenuator	RF test System Instrument			
	TEMPERATURE CAB	NET		Cil		
Test Procedure:	General UNII Test 2. The RF output of attenuator. The parameasurement. 3. Set to the maxim continuously.	Procedures New f EUT was conne th loss was comp num power setting	ent Procedure of KDB76 Rules v02r01 Section E cted to the power meter ensated to the results for g and enable the EUT tr wer and record the resu	, 3, a by RF cable and or each ansmit		
Limit:	100					
	Frequency band (MHz)	Limit				
	5150-5250	≤1W(30dBm) fo	or master device			
	(65)	≤250mW(24dBı	m) for client device			
	5250-5350		m) for client device or 1	1dBm+10logB*		
	5470-5725	≤250mW(24dBı	m) for client device or 1	1dBm+10logB*		
	5725-5850		-0-			
	Remark:	≤1W(30dBm) * Where B is the 26dB emission bandwidth in MHz The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rmsequivalent voltage.				
Test Mode:	Transmitting mode	with modulation		(II)		
Test Results:	Refer to Appendix	A (5)	(6)			















6.4 6dB Emisson Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.407 (e)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C
Test Setup:	Control Computer Power Supply Power Supply TEMPERATURE CABRET RF test System System Instrument Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section C 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Limit:	≥ 500 kHz
Test Mode:	Transmitting mode with modulation
Test Results:	Refer to Appendix A







6.5 26dB Emission Bandwidth and 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.407 (a)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D
Test Setup:	
	RF test Control Computer Power
Test Procedure:	1. KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section D 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. 4. Measure and record the results in the test report.
Limit:	No restriction limits
Test Mode:	Transmitting mode with modulation
Test Results:	Refer to Appendix A







6.6 Maximum Power Spectral Density

Test Requirement:	47 CFR Part 15C S	Section 15.407 (a)					
Test Method:	KDB789033 D02 G	eneral UNII Test	Procedures New Rules	v02r01 Section F				
Test Setup:	(6	(6)	(%)	(24)				
	Control Computer Power Supply TEMPERATURE CAB	Attenuator	RF test - System Instrument					
	1	J						
	Remark: Offset=Cable loss+ attenuation factor.							
Test Procedure: Limit:	bandwidth. 1. Set F Auto, Detector = RI 2. Allow the sweeps	 Set the spectrum analyzer or EMI receiver span to view the entire emissic bandwidth. Set RBW = 510 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. Allow the sweeps to continue until the trace stabilizes. Use the peak marker function to determine the maximum amplitude level. 						
LIIIIIL.	Frequency band (MHz)	Limit						
	5150-5250	≤17dBm in 1MHz for master device						
	(6)	≤11dBm in 1MHz for client device						
	5250-5350	≤11dBm in 1Ml	Hz for client device					
	5470-5725	≤11dBm in 1MI	Hz for client device					
	5725-5850	5725-5850 ≤30dBm in 500kHz						
	Remark: The maximum power spectral density is measured a conducted emission by direct connection of a calibrated test instrument to the equipment under							
	Remark:							
Test Mode:	Transmitting mode	calibrated test i						

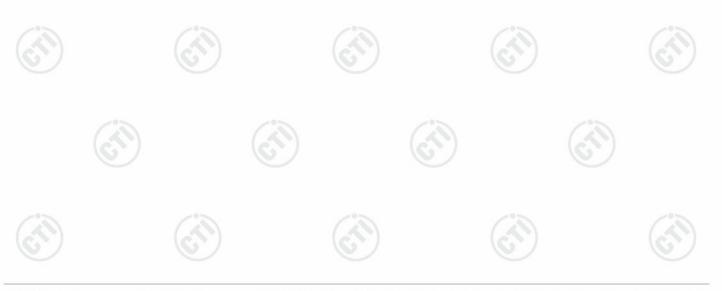






6.7 Frequency Stability

Test Requirement:	47 CFR Part 15C Section 15.407 (g)	
Test Method:	ANSI C63.10: 2013	(3)	
Test Setup:	(522)	(85)	
	Control Computer Power Supply Power Supply Table	RF test System Instrument	
	1 1		
	Remark: Offset=Cable loss+ atten	uation factor.	
Test Procedure:	1.The EUT was placed inside the electric by nominal AC/DC voltage. 2. Turn the EUT on and couple its 3. Turn the EUT off and set the characteristic of the chamber to stabilize. 4. Repeat step 2 and 3 with the ter temperature. 5. The test chamber was allowed to 30 minutes. The supply voltage 115% and the frequency record.	output to a spectrum amber to the highest approximately 30 min mperature chamber so stabilize at +20 degwas then adjusted o	analyzer. temperature n) for the temperature set to the lowest gree C for a minimum n the EUT from 85% to
Limit:	The frequency tolerance shall be frequency over a temperature vanormal supply voltage, and for a value of the supply voltage.	ariation of 0 degree variation in the prima	s to 45 degrees C at ary supply voltage from
Test Mode:	Transmitting mode with modulation		
Test Results:	Refer to Appendix A		(0,





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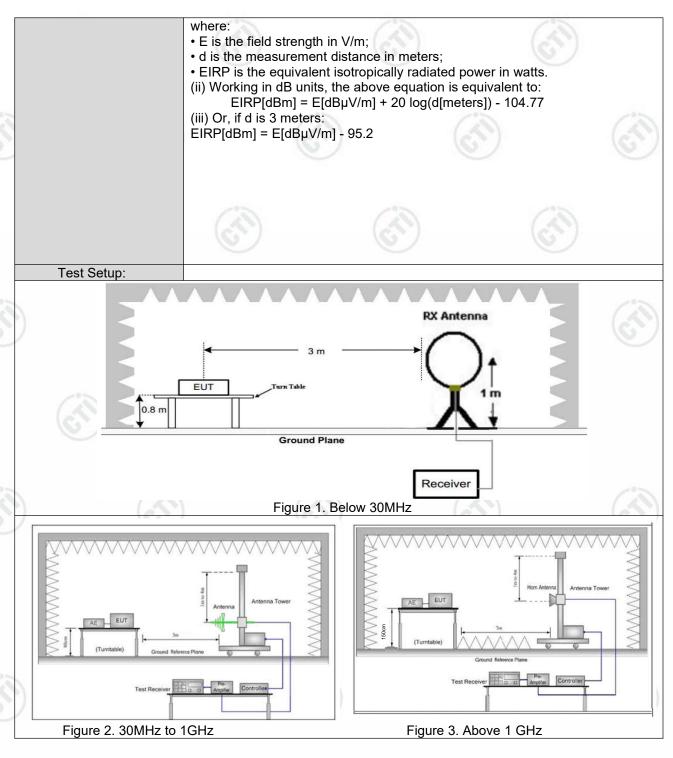
6.8 Radiated Emission

6.8 Radiated Emis	ssion	(6)		10.)
Test Requirement:	47 CFR Part 15C Sectio	on 15.209 and 15	5.407 (b)		
Test Method:	ANSI C63.10 2013		, ,		
Test Site:	Measurement Distance:	3m (Semi-Anec	hoic Char	nber)	
Receiver Setup:	Frequency	Detector	RBV	V VBW	Remark
	0.009MHz-0.090MHz	Peak	10k⊢	lz 30kHz	Peak
	0.009MHz-0.090MHz	Average	10k⊢	lz 30kHz	Average
	0.090MHz-0.110MHz	•			Quasi-peak
	0.110MHz-0.490MHz		10k⊢		Peak
	0.110MHz-0.490MHz		10kH		Average
	0.490MHz -30MHz	Quasi-peal			Quasi-peak
	30MHz-1GHz	Quasi-peal			Quasi-peak
	Above 1GHz	Peak	1MH		Peak
Limit:		Peak	1MH	z 10kHz	Average
Littit.		Field strength microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-10	<i>)</i> -	300
		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
	*(1) For transmitters of outside of the 5.15-5.3 dBm/MHz. (2) For transmitters oper of the 5.15-5.35 GHz ba (3) For transmitters oper outside of the 5.47-5.7 dBm/MHz. (4) For transmitters oper (i) All emissions shall be above or below the ban above or below the ban above or below the ban edge increasing linearly the band edge, and frow linearly to a level of 27 dRemark: The emission measurements employing frequency bands 9-904 emission limits in these an average detector, the the maximum permitted under any condition of measurements of measurements.	rating in the 5.25 and shall not excorperating in the 725 GHz band rating in the 5.72 be limited to a level of 15 and edge, and from 5 MHz above 15 MHz above 15 MHz at the 16 minits shown ing a CISPR kHz, 110-490kHz three bands are peak field stree 15 minits	shall not 5-5.35 GH eed an e.i 5.47-5.72 shall no 25-5.85 GH el of -27 ong linearly om 25 MH e or belo band edge in the a quasi-peadz and are based ongth of all	exceed an z band: All en r.r.p. of -27 dE 5 GHz band t exceed an Hz band: dBm/MHz at 7 y to 10 dBm/lHz above or labove table ak detector above 1000 on measuremny emission s	e.i.r.p. of -27 missions outside m/MHz. : All emissions e.i.r.p. of -27 missions outside m/MHz. : All emissions e.i.r.p. of -27 missions missions e.i.r.p. of -27 missions mi
	Note: (i) EIRP = ((E*d)^2) / 30		C		Cil

























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
	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 and 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 the worst case.
Toot Made:	i. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Transmitting mode with modulation
Test Results:	Pass





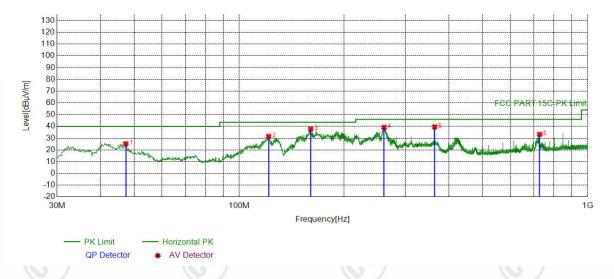


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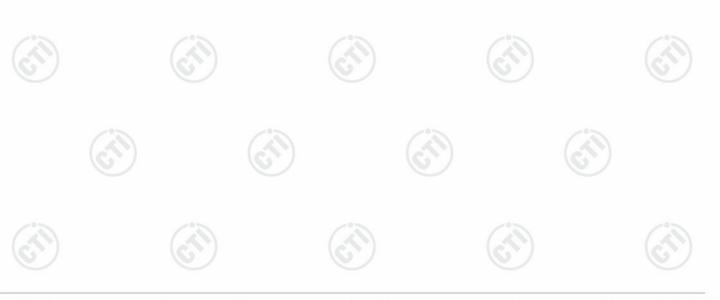
Radiated Spurious Emissions test Data: Radiated Emission below 1GHz

Remark: During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel of 6Mbps for 802.11 a was recorded in the report.

Test Graph



Sus	pected List								
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	47.2677	-17.21	42.42	25.21	40.00	14.79	PASS	Horizontal	PK
2	121.4801	-20.33	51.80	31.47	43.50	12.03	PASS	Horizontal	PK
3	160.3810	-21.13	58.79	37.66	43.50	5.84	PASS	Horizontal	PK
4	260.4951	-16.35	55.61	39.26	46.00	6.74	PASS	Horizontal	PK
5	364.0044	-13.70	53.29	39.59	46.00	6.41	PASS	Horizontal	PK
6	728.0818	-7.31	40.55	33.24	46.00	12.76	PASS	Horizontal	PK

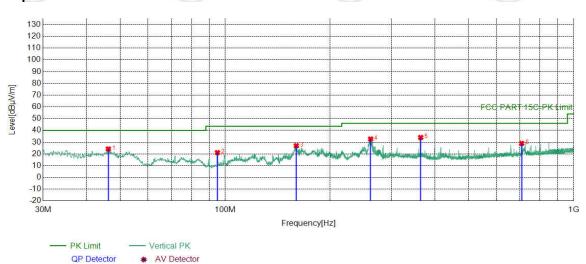




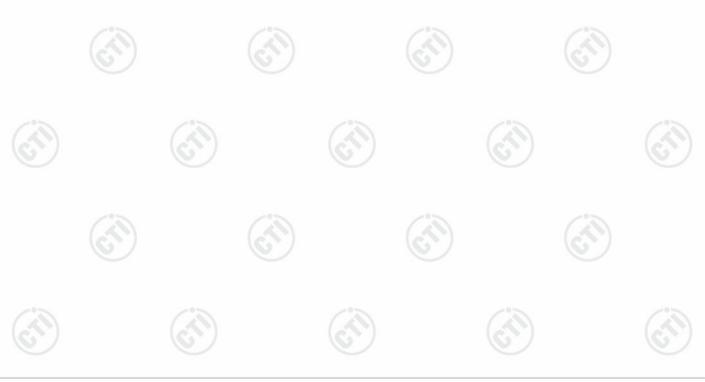




Test Graph



Su	spe	ected List								
N	0	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1		46.2006	-17.20	41.41	24.21	40.00	15.79	PASS	Vertical	PK
2	<u> </u>	94.9965	-19.29	40.39	21.10	43.50	22.40	PASS	Vertical	PK
3	3	159.9930	-21.16	48.14	26.98	43.50	16.52	PASS	Vertical	PK
4	1	261.4651	-16.33	49.02	32.69	46.00	13.31	PASS	Vertical	PK
5	5	364.0044	-13.70	47.68	33.98	46.00	12.02	PASS	Vertical	PK
6	;	709.3589	-7.61	36.58	28.97	46.00	17.03	PASS	Vertical	PK





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Transmitter Emission above 1GHz

Remark: During the test, the Radiates Emission above 1G was performed in all modes, only the worst case was recorded in the report.

Through Pre-scan, for 20MHz Occupied Bandwidth, 802.11 a mode was the worst case; for 40MHz Occupied Bandwidth, 802.11 n(HT40) mode was the worst case; for 80MHz Occupied Bandwidth, 802.11 ac(VHT80) mode was the worst case; only the worst case was in the report.

6.	10.1		1 45 36		1 45		1 45	% Y		10-24
9	Mode	:	8	302.11 a Trans	mitting		Channe	el:	5180MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1041.2541	0.88	42.73	43.61	68.20	24.59	PASS	Horizontal	PK
	2	1750.2750	3.21	40.80	44.01	68.20	24.19	PASS	Horizontal	PK
	3	3396.0396	7.56	38.31	45.87	68.20	22.33	PASS	Horizontal	PK
	4	7068.1284	-11.71	54.00	42.29	68.20	25.91	PASS	Horizontal	PK
	5	9024.9512	-8.46	53.24	44.78	68.20	23.42	PASS	Horizontal	PK
4	6	14399.1700	0.63	50.03	50.66	68.20	17.54	PASS	Horizontal	PK
9	7	1135.8636	0.72	42.17	42.89	68.20	25.31	PASS	Vertical	PK
	8	2918.5919	6.34	39.99	46.33	68.20	21.87	PASS	Vertical	PK
	9	4250.2750	10.53	39.35	49.88	68.20	18.32	PASS	Vertical	PK
	10	6907.1204	-11.97	56.05	44.08	68.20	24.12	PASS	Vertical	PK
	11	9641.3821	-7.43	53.20	45.77	68.20	22.43	PASS	Vertical	PK
	12	14370.4185	0.32	51.82	52.14	68.20	16.06	PASS	Vertical	PK

Mode	:	8	02.11 a Trans	mitting		Channe	el:	5200MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1221.6722	0.89	41.11	42.00	68.20	26.20	PASS	Horizontal	PK
2	2094.6095	5.03	40.72	45.75	68.20	22.45	PASS	Horizontal	PK
3	4491.1991	11.40	37.89	49.29	68.20	18.91	PASS	Horizontal	PK
4	7562.0781	-10.81	54.79	43.98	68.20	24.22	PASS	Horizontal	PK
5	11138.1819	-6.15	53.55	47.40	68.20	20.80	PASS	Horizontal	PK
6	14361.7931	0.23	49.65	49.88	68.20	18.32	PASS	Horizontal	PK
7	1132.0132	0.72	42.31	43.03	68.20	25.17	PASS	Vertical	PK
8	2020.9021	4.71	39.75	44.46	68.20	23.74	PASS	Vertical	PK
9	4247.5248	10.51	38.73	49.24	68.20	18.96	PASS	Vertical	PK
10	8515.4758	-10.58	56.04	45.46	68.20	22.74	PASS	Vertical	PK
11	11912.7456	-5.36	53.34	47.98	68.20	20.22	PASS	Vertical	PK
12	14342.8171	0.02	51.03	51.05	68.20	17.15	PASS	Vertical	PK





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		100				-//2	[4]			
	Mode	:	8	02.11 a Trans	mitting		Channe	el:	5240MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
0	1	1162.2662	0.76	42.49	43.25	68.20	24.95	PASS	Horizontal	PK
9	2	1924.6425	4.30	40.48	44.78	68.20	23.42	PASS	Horizontal	PK
	3	3776.1276	8.25	39.17	47.42	68.20	20.78	PASS	Horizontal	PK
Ī	4	7626.4813	-10.70	54.26	43.56	68.20	24.64	PASS	Horizontal	PK
	5	11242.2621	-6.08	53.65	47.57	68.20	20.63	PASS	Horizontal	PK
	6	14442.8721	0.01	50.01	50.02	68.20	18.18	PASS	Horizontal	PK
	7	1197.4697	0.82	41.35	42.17	68.20	26.03	PASS	Vertical	PK
	8	2019.8020	4.71	40.72	45.43	68.20	22.77	PASS	Vertical	PK
	9	3171.0671	6.93	39.23	46.16	68.20	22.04	PASS	Vertical	PK
	10	6986.4743	-11.71	56.70	44.99	68.20	23.21	PASS	Vertical	PK
4	11	8525.2513	-10.57	56.41	45.84	68.20	22.36	PASS	Vertical	PK
9	12	12459.5980	-4.16	53.94	49.78	68.20	18.42	PASS	Vertical	PK

ı	Mode	:		802.11 a Transi	mitting		Channe	el:	5745MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1640.2640	3.06	42.35	45.41	68.20	22.79	PASS	Horizontal	PK
	2	2811.8812	6.54	39.43	45.97	68.20	22.23	PASS	Horizontal	PK
0	3	5027.5028	13.82	38.55	52.37	68.20	15.83	PASS	Horizontal	PK
	4	7607.1405	-10.58	54.28	43.70	68.20	24.50	PASS	Horizontal	PK
	5	9697.2131	-7.56	53.84	46.28	68.20	21.92	PASS	Horizontal	PK
	6	13668.8113	-1.71	52.47	50.76	68.20	17.44	PASS	Horizontal	PK
	7	1283.8284	1.55	41.71	43.26	68.20	24.94	PASS	Vertical	PK
	8	2129.2629	5.26	40.63	45.89	68.20	22.31	PASS	Vertical	PK
ſ	9	4262.9263	11.45	39.87	51.32	68.20	16.88	PASS	Vertical	PK
Ī	10	8500.3667	-10.59	59.36	48.77	68.20	19.43	PASS	Vertical	PK
	11	11900.7601	-5.44	53.44	48.00	68.20	20.20	PASS	Vertical	PK
٥	12	15528.8686	0.45	49.28	49.73	68.20	18.47	PASS	Vertical	PK













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		1		1 .0.1			12. 7.01			
	Mode	:		802.11 a Transi	mitting		Channe	el:	5785MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
0	1	1184.2684	1.08	41.58	42.66	68.20	25.54	PASS	Horizontal	PK
	2	2101.7602	5.61	40.47	46.08	68.20	22.12	PASS	Horizontal	PK
	3	4995.5996	13.68	39.07	52.75	68.20	15.45	PASS	Horizontal	PK
	4	7542.7362	-10.96	54.27	43.31	68.20	24.89	PASS	Horizontal	PK
	5	10785.1857	-6.18	52.83	46.65	68.20	21.55	PASS	Horizontal	PK
	6	14392.5928	0.56	49.91	50.47	68.20	17.73	PASS	Horizontal	PK
	7	1102.3102	1.09	41.53	42.62	68.20	25.58	PASS	Vertical	PK
	8	2098.4598	5.62	40.71	46.33	68.20	21.87	PASS	Vertical	PK
	9	5004.9505	13.71	38.11	51.82	68.20	16.38	PASS	Vertical	PK
	10	8518.7679	-10.57	55.40	44.83	68.20	23.37	PASS	Vertical	PK
4	11	11273.5849	-6.35	53.43	47.08	68.20	21.12	PASS	Vertical	PK
9	12	14920.8614	-0.90	50.83	49.93	68.20	18.27	PASS	Vertical	PK

	Mode	:		802.11 a Transi	mitting		Channe	el:	5825MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1284.3784	1.55	42.60	44.15	68.20	24.05	PASS	Horizontal	PK
	2	2118.8119	5.39	40.06	45.45	68.20	22.75	PASS	Horizontal	PK
0	3	5023.6524	13.80	38.66	52.46	68.20	15.74	PASS	Horizontal	PK
3	4	7709.1139	-11.20	54.28	43.08	68.20	25.12	PASS	Horizontal	PK
	5	10840.3894	-6.28	52.15	45.87	68.20	22.33	PASS	Horizontal	PK
	6	14397.9599	0.62	50.02	50.64	68.20	17.56	PASS	Horizontal	PK
	7	1191.9692	1.08	41.09	42.17	68.20	26.03	PASS	Vertical	PK
	8	1995.0495	5.06	41.37	46.43	68.20	21.77	PASS	Vertical	PK
	9	3956.5457	10.08	38.16	48.24	68.20	19.96	PASS	Vertical	PK
Ī	10	8527.2018	-10.57	56.39	45.82	68.20	22.38	PASS	Vertical	PK
	11	12392.9929	-4.12	51.45	47.33	68.20	20.87	PASS	Vertical	PK
۰	12	14996.7665	-0.96	50.45	49.49	68.20	18.71	PASS	Vertical	PK













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	100					12.			
Mode	:	8	02.11 n(HT40	Transmitting		Channe	el:	5190MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1173.2673	0.78	41.94	42.72	68.20	25.48	PASS	Horizontal	PK
2	1692.5193	2.98	40.27	43.25	68.20	24.95	PASS	Horizontal	PK
3	3370.1870	7.52	39.38	46.90	68.20	21.30	PASS	Horizontal	PK
4	7593.7047	-10.58	54.13	43.55	68.20	24.65	PASS	Horizontal	PK
5	10311.2906	-6.25	52.54	46.29	68.20	21.91	PASS	Horizontal	PK
6	14358.3429	0.19	50.23	50.42	68.20	17.78	PASS	Horizontal	PK
7	1172.7173	0.78	41.17	41.95	68.20	26.25	PASS	Vertical	PK
8	2297.5798	4.05	41.75	45.80	68.20	22.40	PASS	Vertical	PK
9	4255.2255	10.57	40.61	51.18	68.20	17.02	PASS	Vertical	PK
10	8522.3761	-10.57	57.88	47.31	68.20	20.89	PASS	Vertical	PK
11	11820.7410	-6.04	54.14	48.10	68.20	20.10	PASS	Vertical	PK
12	14396.2948	0.60	49.85	50.45	68.20	17.75	PASS	Vertical	PK
			•						

Mode	: :	3	302.11 n(HT40) Transmitting		Channe	el:	5230MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1218.9219	0.88	41.41	42.29	68.20	25.91 PASS		Horizontal	PK
2	2034.6535	4.77	40.20	44.97	68.20	23.23	PASS	Horizontal	PK
3	3811.8812	8.59	38.34	46.93	68.20	21.27	PASS	Horizontal	PK
4	7591.9796	-10.59	53.96	43.37	68.20	24.83	PASS	Horizontal	PK
5	9709.2355	-7.53	53.75	46.22	68.20	21.98	PASS	Horizontal	PK
6	13737.8869	-2.00	51.30	49.30	68.20	18.90	PASS	Horizontal	PK
7	1133.1133	0.72	42.38	43.10	68.20	25.10	PASS	Vertical	PK
8	2138.0638	4.62	40.39	45.01	68.20	23.19	PASS	Vertical	PK
9	4255.2255	10.57	38.25	48.82	68.20	19.38	PASS	Vertical	PK
10	8520.6510	-10.57	59.44	48.87	68.20	19.33	PASS	Vertical	PK
11	11235.3618	-6.02	54.07	48.05	68.20	20.15	PASS	Vertical	PK
12	15513.0007	0.46	49.78	50.24	68.20	17.96	PASS	Vertical	PK















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				10.0		-/-				
	Mode	:	8	02.11 n(HT40)) Transmitting		Channe	el:	5755MHz	
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
0	1	1636.9637	3.03	44.17	47.20	68.20	21.00	PASS	Horizontal	PK
9	2	2937.2937	7.07	39.53	46.60	68.20	21.60	PASS	Horizontal	PK
	3	4992.2992	13.67	38.09	51.76	68.20	16.44	PASS	Horizontal	PK
Ī	4	7577.2385	-10.70	54.68	43.98	68.20	24.22	PASS	Horizontal	PK
	5	9719.4480	-7.49	53.03	45.54	68.20	22.66	PASS	Horizontal	PK
	6	13669.5780	-1.71	51.76	50.05	68.20	18.15	PASS	Horizontal	PK
	7	1167.7668	1.08	42.25	43.33	68.20	24.87	PASS	Vertical	PK
	8	2128.1628	5.28	43.91	49.19	68.20	19.01	PASS	Vertical	PK
	9	4251.9252	11.36	40.99	52.35	68.20	15.85	PASS	Vertical	PK
	10	8500.3667	-10.59	57.64	47.05	68.20	21.15	PASS	Vertical	PK
4	11	11669.9780	-5.99	53.54	47.55	68.20	20.65	PASS	Vertical	PK
9	12	15924.4950	0.04	51.40	51.44	68.20	16.76	PASS	Vertical	PK

Mod	le:		802.11 n(HT40)) Transmitting		Channel:		5795MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1168.3168	1.08	41.87	42.95	68.20	25.25	PASS	Horizontal	PK
2	2068.2068	5.46	40.01	45.47	68.20	22.73	PASS	Horizontal	PK
3	5010.4510	13.74	38.13	51.87	68.20	16.33	PASS	Horizontal	PK
4	7672.3115	-11.01	54.17	43.16	68.20	25.04	PASS	Horizontal	PK
5	9746.2831	-7.38	52.89	45.51	68.20	22.69	PASS	Horizontal	PK
6	13742.4162	-2.03	51.89	49.86	68.20	18.34	PASS	Horizontal	PK
7	1136.9637	1.09	41.98	43.07	68.20	25.13	PASS	Vertical	PK
8	1640.2640	3.06	43.37	46.43	68.20	21.77	PASS	Vertical	PK
9	4997.2497	13.68	39.19	52.87	68.20	15.33	PASS	Vertical	PK
10	7614.8077	-10.63	55.46	44.83	68.20	23.37	PASS	Vertical	PK
11	11249.8167	-6.14	52.82	46.68	68.20	21.52	PASS	Vertical	PK
12	14927.7619	-0.91	51.72	50.81	68.20	17.39	PASS	Vertical	PK













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Mode	:	8	302.11 ac(VHT	80) Transmitti	ng	Channe	el:	5210MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1069.3069	0.78	42.87	43.65	68.20	24.55	PASS	Horizontal	PK
2	2157.8658	4.40	40.41	44.81	68.20	23.39	PASS	Horizontal	PK
3	4070.9571	9.55	37.43	46.98	68.20	21.22	PASS	Horizontal	PK
4	7374.6187	-11.41	54.60	43.19	68.20	25.01	PASS	Horizontal	PK
5	11272.7386	-6.34	53.47	47.13	68.20	21.07	PASS	Horizontal	PK
6	15897.1199	0.09	51.13	51.22	68.20	16.98	PASS	Horizontal	PK
7	1640.2640	2.68	42.22	44.90	68.20	23.30	PASS	Vertical	PK
8	2128.1628	4.73	42.68	47.41	68.20	20.79	PASS	Vertical	PK
9	3811.8812	8.59	37.98	46.57	68.20	21.63	PASS	Vertical	PK
10	7555.7528	-10.86	54.72	43.86	68.20	24.34	PASS	Vertical	PK
11	9711.5356	-7.52	53.92	46.40	68.20	21.80	PASS	Vertical	PK
12	14373.2937	0.35	49.69	50.04	68.20	18.16	PASS	Vertical	PK

Mode	:	8	02.11 ac(VHT	80) Transmitti	ng	Channe	el:	5775MHz	
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1137.5138	1.09	42.16	43.25	68.20	24.95	PASS	Horizontal	PK
2	1856.4356	4.30	40.50	44.80	68.20	23.40	PASS	Horizontal	PK
3	4487.3487	12.21	36.83	49.04	68.20	19.16	PASS	Horizontal	PK
4	7721.3814	-11.22	54.99	43.77	68.20	24.43	PASS	Horizontal	PK
5	9652.7435	-7.46	53.80	46.34	68.20	21.86	PASS	Horizontal	PK
6	13706.3804	-1.78	51.82	50.04	68.20	18.16	PASS	Horizontal	PK
7	1639.7140	3.05	43.67	46.72	68.20	21.48	PASS	Vertical	PK
8	2677.6678	6.03	39.88	45.91	68.20	22.29	PASS	Vertical	PK
9	5031.9032	13.84	38.04	51.88	68.20	16.32	PASS	Vertical	PK
10	8508.0339	-10.58	56.39	45.81	68.20	22.39	PASS	Vertical	PK
11	11885.4257	-5.55	53.74	48.19	68.20	20.01	PASS	Vertical	PK
12	14360.3907	0.21	50.18	50.39	68.20	17.81	PASS	Vertical	PK

- 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 + Factor
 - Factor=Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 40GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.













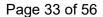
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6.9 Radiated Emission which fall in the restricted bands

	Test Requirement:	47 CFR Part 15C Sect	ion 1	5.209 and 1	5.407 (b)								
	Test Method:	ANSI C63.10 2013			13								
	Test Site:	Measurement Distance	e: 3m	n (Semi-Aned	choic Char	nbe	r)	(6,7)					
1	Receiver Setup:	Frequency		Detector	RBV	٧	VBW	Remark					
		0.009MHz-0.090MH	Peak	10kH	Hz 30kHz		Peak						
		0.009MHz-0.090MH	Average	10kF	Hz 30kHz		Average						
		0.090MHz-0.110MH	łz	Quasi-pea	k 10kF	łz	30kHz	Quasi-peak					
		0.110MHz-0.490MH	łz	Peak	10kH	łz	30kHz	Peak					
		0.110MHz-0.490MH	łz	Average	10kH	łz	30kHz	Average					
		0.490MHz -30MHz	<u> </u>	Quasi-pea	k 10kH	łz	30kHz	Quasi-peak					
		30MHz-1GHz		Quasi-pea	k 100 k	Hz	300kHz	Quasi-peak					
		Above 1GHz		Peak	1MH	lz	3MHz	Peak					
		Above IGHZ		Peak	1MH	lz	10kHz	Average					
	Limit:	Frequency		ld strength rovolt/meter)	Limit (dBuV/m)	R	temark	Measurement distance (m)					
		0.009MHz-0.490MHz	24	00/F(kHz)	-		- (-	300					
		0.490MHz-1.705MHz	240	000/F(kHz)	-		-	30					
		1.705MHz-30MHz		30	- /0		-	30					
3		30MHz-88MHz	1	100	40.0	Qu	asi-peak	3					
4		88MHz-216MHz		150	43.5	Qu	asi-peak	3					
		216MHz-960MHz	200		46.0	46.0 Qu		3					
		960MHz-1GHz		500	54.0	Qu	asi-peak	3					
		Above 1GHz		500	54.0	Α	verage	3					
		outside of the 5.15-5 dBm/MHz. (2) For transmitters open of the 5.15-5.35 GHz because of the 5.47-5 dBm/MHz. (4) For transmitters open of the 5.47-5 dBm/MHz. (4) For transmitters open of the because or below the because or below the because of	*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27										
		frequency bands 9-9			1 27 7 . 1								





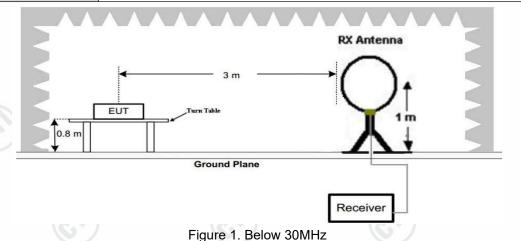


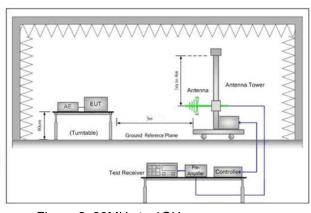
emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. Note: (i) EIRP = $((E*d)^2) / 30$

where: E is the field strength in V/m;

- d is the measurement distance in meters;
- EIRP is the equivalent isotropically radiated power in watts.
- (ii) Working in dB units, the above equation is equivalent to: $EIRP[dBm] = E[dB\mu V/m] + 20 \log(d[meters]) - 104.77$ (iii) Or, if d is 3 meters:
- $EIRP[dBm] = E[dB\mu V/m] 95.2$

Test Setup:





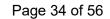












Test Procedure:	 j. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters 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.
	 k. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. l. 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.
	 m. 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. n. The test-receiver system was set to Peak Detect Function and Specified
	Bandwidth with Maximum Hold Mode. o. 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. p. Test the EUT in the lowest channel, the Highest channel
	 q. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. r. Repeat above procedures until all frequencies measured was complete.
Test Mode:	Transmitting mode with modulation
Test Mode:	Pass
rest i tesuits.	1 433







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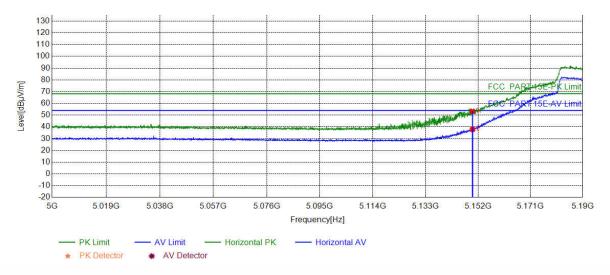
Test Data:

Remark: During the test, the restricted bands above 1G was performed in all modes, only the worst case recorded in the report.



Mode:	802.11 a Transmitting	Channel:	5180
Remark:		(0,	/

Test Graph



	Suspe	Suspected List									
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
	1	5150.0000	-15.08	68.38	53.30	68.29	14.99	PASS	Horizontal	PK	
Ī	2	5150.0000	-15.08	52.98	37.90	54.00	16.10	PASS	Horizontal	AV	
•		-0.5		- C - C - C - C - C - C - C - C - C - C		-10%			-125		



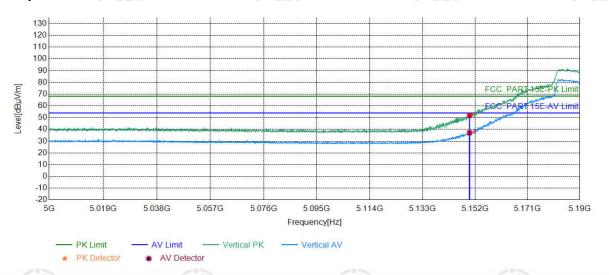




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Mode:	802.11 a Transmitting	Channel:	5180
Remark:			

Test Graph



_						/ / /						
	Suspected List											
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
	1	5150.0000	-15.08	66.88	51.80	68.29	16.49	PASS	Vertical	PK		
3	2	5150.0000	-15.08	52.15	37.07	54.00	16.93	PASS	Vertical	AV		

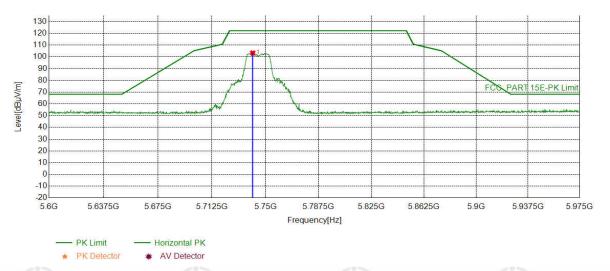






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Mode:	802.11 a Transmitting	Channel:	5745
Remark:			



S	Suspected List									
N	10	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	5741.0705	13.84	89.47	103.31	122.20	18.89	PASS	Horizontal	PK

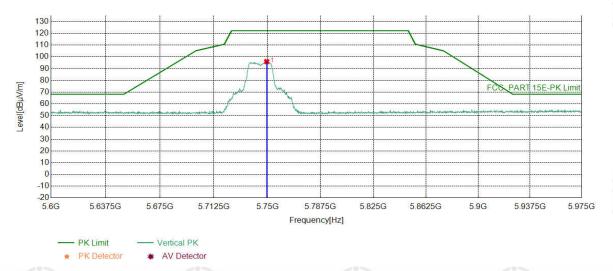




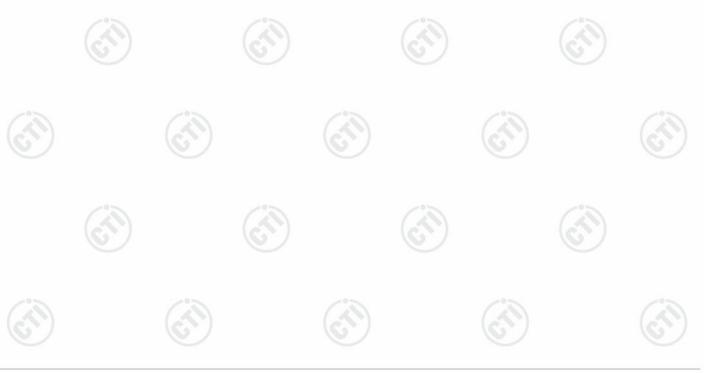


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Mode:	802.11 a Transmitting	Channel:	5745
Remark:			



Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
1	5749.5123	13.85	82.18	96.03	122.20	26.17	PASS	Vertical	PK	

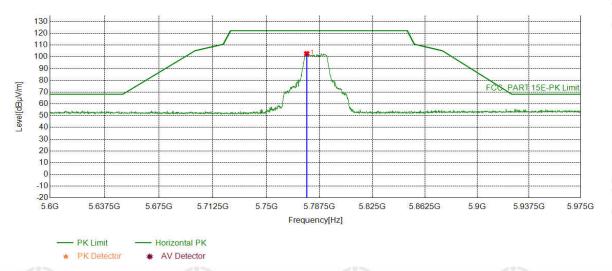






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Mode:	802.11 a Transmitting	Channel:	5785
Remark:			



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5778.4017	13.90	88.83	102.73	122.20	19.47	PASS	Horizontal	PK

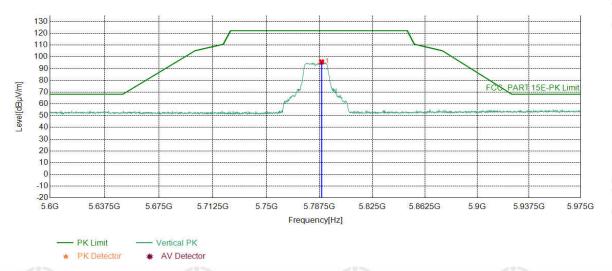




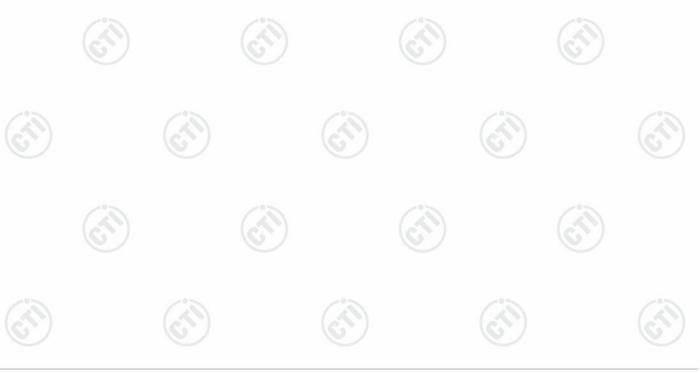


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Mode:	802.11 a Transmitting	Channel:	5785
Remark:			



Su	Suspected List									
N	Ю	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
-	1	5788.9070	13.92	81.77	95.69	122.20	26.51	PASS	Vertical	PK

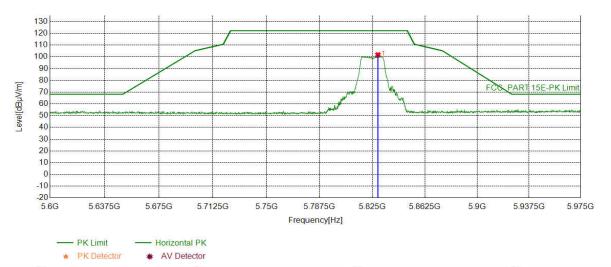




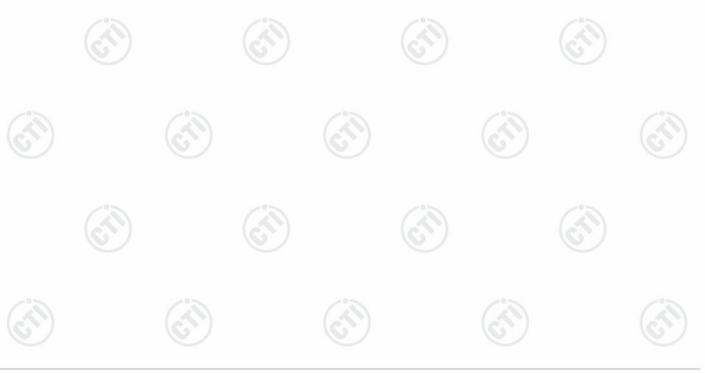


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Mode:	802.11 a Transmitting	Channel:	5825
Remark:			



Suspected List									
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	5828.8644	14.05	87.68	101.73	122.20	20.47	PASS	Horizontal	PK





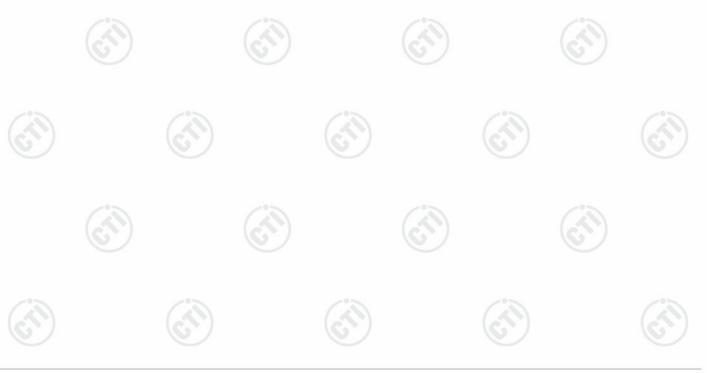


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Mode:	802.11 a Transmitting	Channel:	5825
Remark:			



	Suspected List									
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
_	1	5828.8644	14.05	81.31	95.36	122.20	26.84	PASS	Vertical	PK

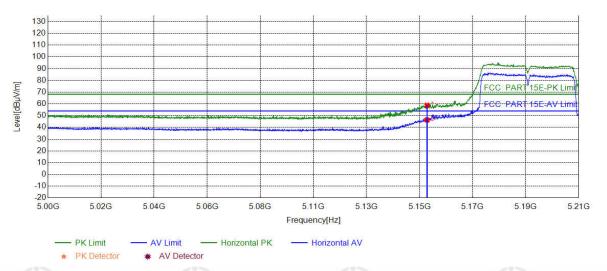






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Mode:	802.11 n(HT40) Transmitting	Channel:	5190
Remark:			



Suspected List											
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	5150.0000	12.36	46.46	58.82	68.20	9.38	PASS	Horizontal	PK		
2	5150.0000	12.36	33.98	46.34	54.00	7.66	PASS	Horizontal	AV		

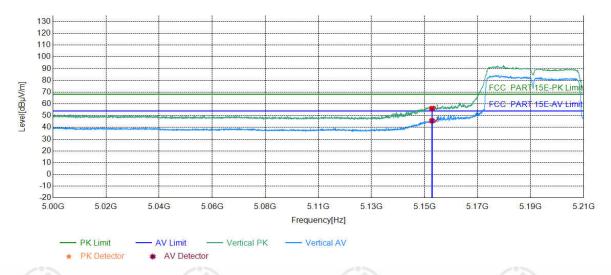




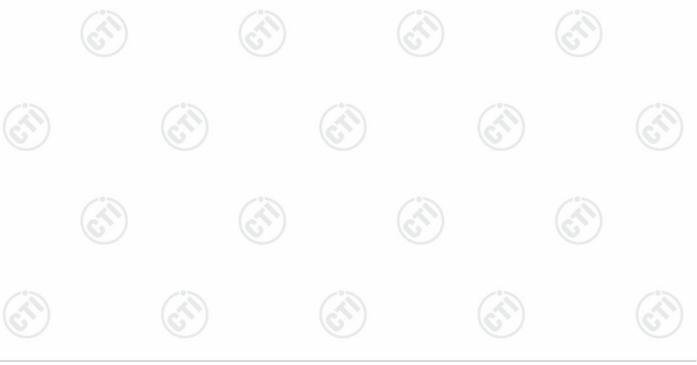


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Mode:	802.11 n(HT40) Transmitting	Channel:	5190
Remark:			



	Suspe	cted List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
-	1	5150.0000	12.36	43.82	56.18	68.20	12.02	PASS	Vertical	PK
	2	5150.0000	12.36	33.28	45.64	54.00	8.36	PASS	Vertical	AV

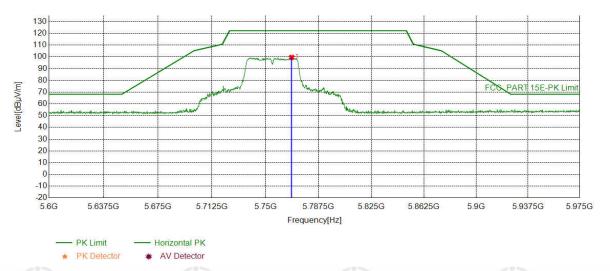




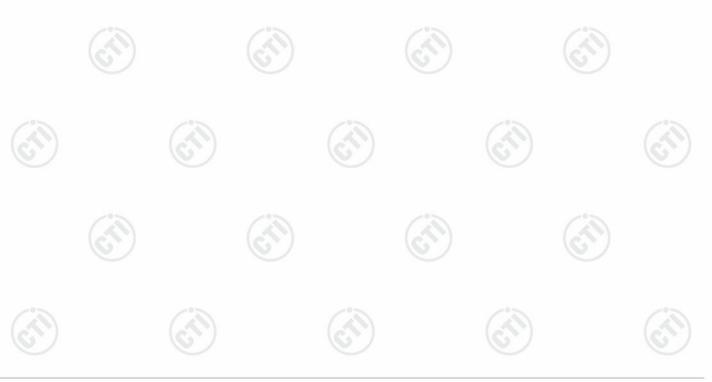


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Mode:	802.11 n(HT40) Transmitting	Channel:	5755
Remark:			



	Susp	ected List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
3	1	5768.4592	13.89	85.68	99.57	122.20	22.63	PASS	Horizontal	PK

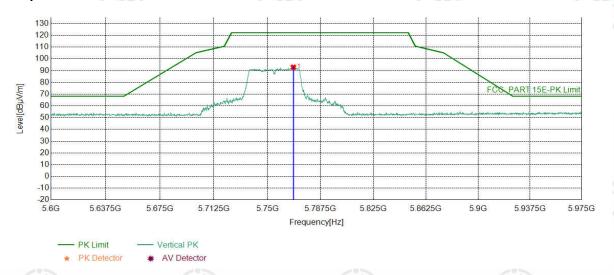




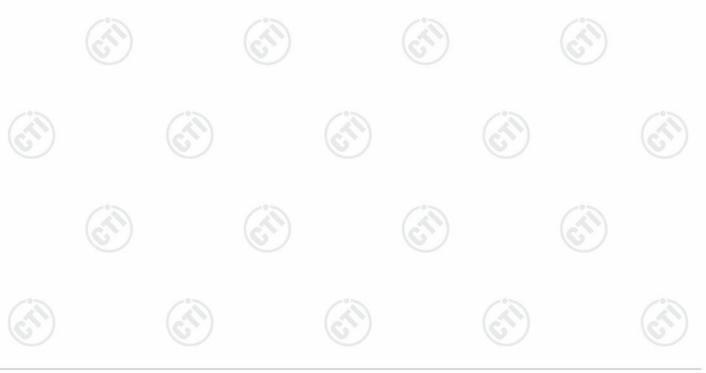


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Mode:	802.11 n(HT40) Transmitting	Channel:	5755
Remark:			



	Suspe	ected List								
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
7	1	5768.2716	13.89	79.06	92.95	122.20	29.25	PASS	Vertical	PK

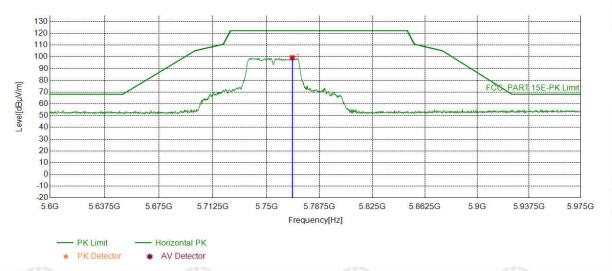






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Mode:	802.11 n(HT40) Transmitting	Channel:	5795
Remark:			



	Suspected List											
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
_	1	5768.2716	13.89	85.38	99.27	122.20	22.93	PASS	Horizontal	PK		

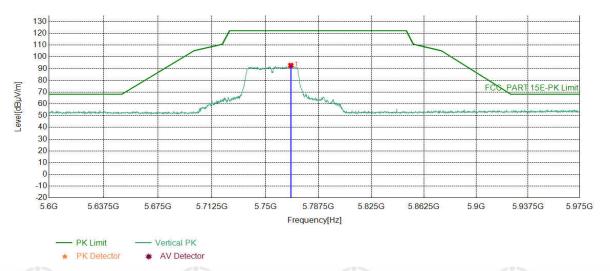






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Mode:	802.11 n(HT40) Transmitting	Channel:	5795
Remark:			



	Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
7	1	5767.8964	13.89	78.86	92.75	122.20	29.45	PASS	Vertical	PK	

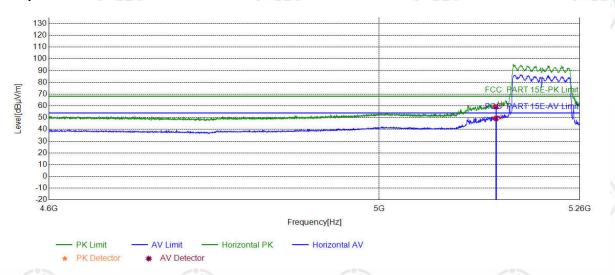






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Mode:	802.11 ac(VHT80) Transmitting	Channel:	5210
Remark:			



S	Suspected List										
1	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
	1	5150.0000	12.36	46.97	59.33	68.20	8.87	PASS	Horizontal	PK	
	2	5150.0000	12.36	36.93	49.29	54.00	4.71	PASS	Horizontal	AV	

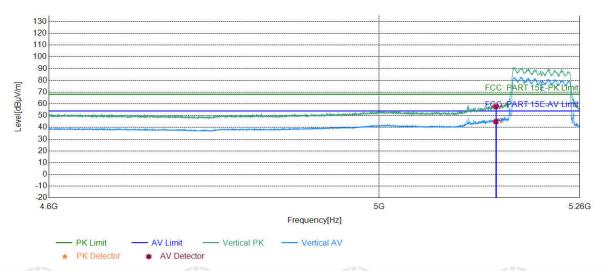






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Mode:	802.11 ac(VHT80) Transmitting	Channel:	5210
Remark:			



	Suspected List										
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark	
3	1	5150.0000	12.36	45.36	57.72	68.20	10.48	PASS	Vertical	PK	
	2	5150.0000	12.36	32.58	44.94	54.00	9.06	PASS	Vertical	AV	

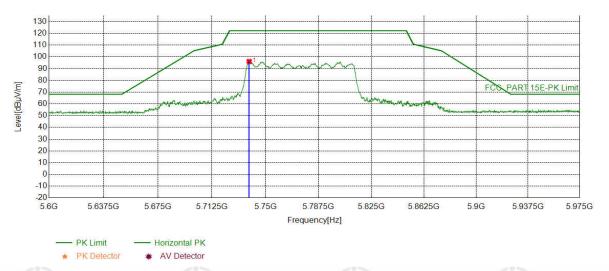






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Mode:	802.11 ac(VHT80) Transmitting	Channel:	5775
Remark:			



Suspe	Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	5738.6318	13.84	82.31	96.15	122.20	26.05	PASS	Horizontal	PK		



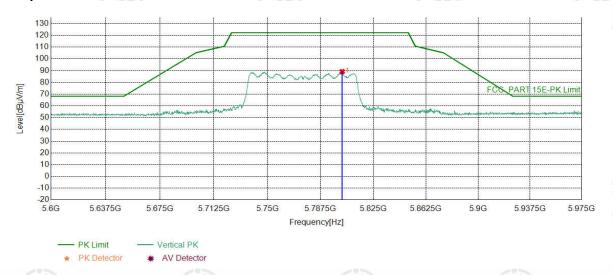




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Mode:	802.11 ac(VHT80) Transmitting	Channel:	5775
Remark:			

Test Graph

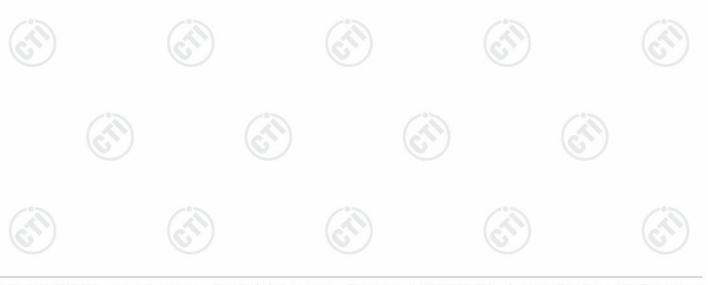


Sus	Suspected List										
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark		
1	5802.7889	13.95	75.26	89.21	122.20	32.99	PASS	Vertical	PK		

- 1) Through Pre-scan transmitting mode and charge+transmitter mode with all kind of modulation and data rate and then Only the worst case is recorded in the report.
- 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 - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor











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7 Appendix A





Refer to Appendix: 5G WIFI of EED32O80040603.

















































































