

FCC TEST REPORT FCC ID: 2AR6U-R3

Product	:	Wireless Router		
Model Name : Netduma R3				
Brand	:	Netduma		
Report No.	:	PTC22102407101E-FC02		
Sample ID	:	PTC22102407101E-01#		
		Prepared for		
		Netduma Limited		
20-22 We	nloc	k Road, London, N1 7GU, United Kingdom		
Prepared by				
	Prec	cise Testing & Certification Co., Ltd.		
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China				



1 TEST RESULT CERTIFICATION

Applicant's name	:	Netduma Limited
Address	:	20-22 Wenlock Road, London, N1 7GU, United Kingdom
Manufacture's name	:	Visonicom Technology Corporation Limited
Address	:	Block B2, No. 14 Jian'an Road, Shajing Subdistrict, Baoan District Shenzhen 518104 China
Product name	:	Wireless Router
Model name	:	Netduma R3
Standards	:	FCC CFR47 Part 15 Section 15.407
Test procedure	:	ANSI C63.10:2013
Test Date	:	Oct. 28, 2022 to Dec. 08, 2022
Date of Issue	:	Dec. 08, 2022
Test Result	:	Pass

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Technical Manager:



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2 Test Summary

FCC Part15 (15.407)					
Test Item	FCC standard	Judgment			
AC Conducted Emission	15.207	PASS			
26dB/6dB Bandwidth	§ 15.407 (a) (26 dB) / § 15.407 (e) (6 dB)	PASS			
Maximum Conducted Output Power	15.407(a)	PASS			
Radiated Emission And (Unwanted Emissions) Measurement	15.407(b)& 15.209	PASS			
Radiated Restricted Band Edge Measurement	15.407(b)& 15.205	PASS			
Power Spectral Density	15.407(a)	PASS			
Frequency Stability	15.407(g)	PASS			
Automatically Discontinue Transmission	15.407(c)	PASS			
Antenna Requirement	15.203	PASS			
Note: Reference to the ANSI C63.10-2013, KDB 789033 D02v01r01, KDB 662911 D01v02r01. " N/A" denotes test is not applicable in this Test Report.					

2.1 Test Site

Precise Testing & Certification Co., Ltd. Address: Building 1, No.6 Tongxin Road, Dongcheng Street, Dongguan, China FCC Registration Number: 790290 Designation Number: CN1219 A2LA Certificate No.: 4408.01 IC Registration Number: 12191A CAB identifier: CN0080



3 General Information

3.1 General Description of EUT

EUT Name:	Wireless Router				
Model No.:	Netduma R3				
	For 802.11a/n-HT20/ac-VHT20:				
	5180~5240MHz, 5745~5825MHz				
Operation frequency:	For 802.11n-HT40/ac-VHT40:				
Operation requency.	5190~5230MHz, 5755~5795MHz				
	For 802.11ac-VHT80:				
	5210MHz, 5775MHz				
Modulation Type and	802.11a/n/ac: OFDM				
Antenna Type:	Rod Antenna				
Antenna Gain:	4.95dBi				
Maximum Output Power	802.11a: 14.57dBm				
	802.11n-HT20: 14.54dBm				
	802.11n-HT40: 14.09dBm				
	802.11ac-VHT20: 14.58dBm				
	802.11ac-VHT40: 14.45dBm				
	802.11ac-VHT80: 14.82dBm				
Dowor Supply:	DC 12V 1.5A adaptor input AC120V 60Hz				
	(Adapter model: P018W1201500HU)				
Hardware Version:	V01				
Software Version:	V1.2				



Channel List							
	Channel List for 802.11a/n-HT20/ac-VHT20						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	40	5200	44	5220		
48	5240	149	5745	153	5765		
157	5785	161	5805	165	5825		

Channel List for 802.11n-HT40/ac-VHT40

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230	151	5755	159	5795

Channel List for 802.11ac-VHT80

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	155	5775	-			

1. All the modulation modes were tested with DC 12v via adaptor, the EUT is stand alone.



Duty Cycle

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	1.40	1.44	97.22
11A	Ant2	5180	1.39	1.43	97.20
11A	Ant1	5745	1.40	1.44	97.22
11A	Ant2	5745	1.39	1.43	97.20
11A	Ant1	5785	1.39	1.44	96.53
11A	Ant2	5785	1.39	1.44	96.53
11N20SISO	Ant1	5180	1.30	1.34	97.01
11N20SISO	Ant2	5180	1.31	1.35	97.04
11N20SISO	Ant1	5745	1.30	1.35	96.30
11N20SISO	Ant2	5745	1.30	1.34	97.01
11N40SISO	Ant2	5190	0.65	0.69	94.20
11N40SISO	Ant1	5755	0.65	0.69	94.20
11N40SISO	Ant2	5755	0.65	0.69	94.20
11AC20SISO	Ant1	5180	1.32	1.36	97.06
11N40SISO	Ant1	5190	0.65	0.69	94.20
11AC20SISO	Ant2	5180	1.32	1.36	97.06
11AC20SISO	Ant1	5745	1.32	1.36	97.06
11AC20SISO	Ant2	5745	1.31	1.36	96.32
11AC40SISO	Ant1	5755	0.66	0.70	94.29
11AC40SISO	Ant2	5755	0.66	0.70	94.29
11AC80SISO	Ant1	5775	0.32	0.36	88.89
11AC80SISO	Ant2	5775	0.32	0.36	88.89
11A	Ant1	5220	1.39	1.44	96.53
11A	Ant2	5220	1.39	1.43	97.20
11A	Ant1	5240	1.40	1.44	97.22
11AC40SISO	Ant1	5190	0.66	0.70	94.29
11AC40SISO	Ant2	5190	0.66	0.70	94.29
11AC80SISO	Ant1	5210	0.32	0.36	88.89
11AC80SISO	Ant2	5210	0.33	0.37	89.19
11A	Ant2	5240	1.39	1.43	97.20
11N20SISO	Ant1	5220	1.30	1.34	97.01
11N20SISO	Ant2	5220	1.31	1.35	97.04
11N20SISO	Ant1	5240	1.31	1.35	97.04



11N20SISO	Ant2	5240	1.31	1.35	97.04
11AC20SISO	Ant1	5220	1.31	1.36	96.32
11AC20SISO	Ant2	5220	1.32	1.36	97.06
11AC20SISO	Ant1	5240	1.31	1.35	97.04
11AC20SISO	Ant2	5240	1.32	1.36	97.06
11N40SISO	Ant1	5230	0.64	0.69	92.75
11N40SISO	Ant2	5230	0.65	0.69	94.20
11AC40SISO	Ant1	5230	0.66	0.70	94.29
11AC40SISO	Ant2	5230	0.65	0.69	94.20
11A	Ant1	5825	1.40	1.44	97.22
11A	Ant2	5825	1.39	1.44	96.53
11N20SISO	Ant1	5785	1.31	1.35	97.04
11N20SISO	Ant2	5785	1.31	1.35	97.04
11N20SISO	Ant1	5825	1.31	1.35	97.04
11N20SISO	Ant2	5825	1.31	1.35	97.04
11N40SISO	Ant1	5795	0.65	0.69	94.20
11N40SISO	Ant2	5795	0.65	0.69	94.20
11AC20SISO	Ant1	5785	1.32	1.36	97.06
11AC20SISO	Ant2	5785	1.32	1.36	97.06
11AC20SISO	Ant1	5825	1.31	1.36	96.32
11AC20SISO	Ant2	5825	1.31	1.35	97.04
11AC40SISO	Ant1	5795	0.66	0.70	94.29
11AC40SISO	Ant2	5795	0.66	0.70	94.29

NTNV-11A-Ant1-5180-1.40-1.44


















































































































3.2 Description of Test conditions

(1) EUT was tested in normal configuration (Please See following Block diagram)



(2) E.U.T. test conditions:

15.31(e): For intentional radiators, measurements of the variation of the input power or the adiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominalrated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

(3) Test frequencies:

According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and. If required reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over	Number of	Location in
which device operates	frequencies	the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More then 10 MU	2	1 near top, 1 near middle and
More than 10 MHz	3	1 near bottom

(4) Frequency range of radiated measurements:

According to the 15.33, The test range will be up to the tenth harmonic of the highest fundamental frequency.

- (5) The EUT 's duty cycle is set to 100%
- (6) The measurements are performed at all Bit Rate of Transmitter, For all tests the worst-case was selected as the table below, the data of the worst-case is shown in the report.

Test Mode	Mode 1: Transmit by 802.11a
	Mode 2: Transmit by 802.11n-HT20
	Mode 3: Transmit by 802.11n-HT40
	Mode 4: Transmit by 802.11ac-VHT20
	Mode 5: Transmit by 802.11ac-VHT40
	Mode 6: Transmit by 802.11ac-VHT80





4 Equipments List for All Test Items

RF Conducted Test						
Name of Equipment	Manufacturer	Model	Serial No.	Last calibration	Calibration Due	Calibration period
MXA Signal Analyzer	Agilent	N9020A	MY560702 79	Aug. 20, 2022	Aug21,2023	1 year
Coaxial Cable	CDS	79254	46107086	Aug. 20, 2022	Aug21,2023	1 year
Power Meter	Anritsu	ML2495A	0949003	Aug. 20, 2022	Aug21,2023	1 year
Power Sensor	Anritsu	MA2411B	0917017	Aug. 20, 2022	Aug21,2023	1 year
Spectrum Analyzer	Rohde&Schwa rz	FSVR40	101003	Aug. 20, 2022	Aug21,2023	1 year
Temperature Chamber	TERCHY	MHG-800N	E21104	Aug. 20, 2022	Aug21,2023	1 year
Temp. / Humidity Meter	Anymetre	JR913	N/A	Aug. 20, 2022	Aug21,2023	1 year
DC Power Supply	DAZHENG	PS-605D	20018978	Aug. 20, 2022	Aug21,2023	1 year
AC POWER SOUCE	UMART	HPA1010	N/A	Aug. 20, 2022	Aug21,2023	1 year
Scope	Tektronix	TDS3032B	B014131	Aug. 20, 2022	Aug21,2023	1 year
DC power	eTOMENS	eTM-1560		Aug. 20, 2022	Aug21,2023	1 year

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

Radiated Emissions

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Calibration Due
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	9KHz-3GHz	Aug21,2023
Loop Antenna	Schwarzbeck	FMZB 1519	012	9 KHz -30MHz	Aug21,2023
Bilog Antenna	SCHWARZBECK	VULB9160	9160-3355	25MHz-2GHz	Aug21,2023
Preamplifier (low frequency)	SCHWARZBECK	BBV 9475	9745-0013	1MHz-1GHz	Aug21,2023
Cable	Schwarzbeck	PLF-100	549489	9KHz-3GHz	Aug21,2023



Spectrum Analyzer	Agilent	E4407B	MY45109572	9KHz-40GHz	Aug21,2023
Horn Antenna	SCHWARZBECK	9120D	9120D-1246	1GHz-18GHz	Aug21,2023
High NOISE AMPLIFIER	ZHINAN	ZN3380C	15002	10KHz-18GHz	Aug21,2023
Cable	H+S	CBL-26	N/A	1GHz-26.5GHz	Aug21,2023
Spectrum Analyzer	Rohde&Schwarz	FSVR40	101003	10Hz-40GHz	Aug21,2023
Horn Antenna	SCHWARZBECK	BBHA9170	01066	15GHZ-40GHZ	Aug21,2023
Preamplifier	SCHWARZBECK	BBV-9721	81	18GHZ-40GHZ	Aug21,2023
Test S/W	Tonscend	JS32-RE/4.0.0.0			

Conducted Emissions

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Calibration Due
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	9KHz-3GHz	Aug21,2023
Artificial Mains Network	Rohde&Schwarz	BS ENV216	102453	9KHz-300MHz	Aug21,2023
Artificial Mains Network	Rohde&Schwarz	L2-16B	000WX31025	9KHz-300MHz	Aug21,2023
Test S/W	Tonscend	JS32-CE/4.0	0.0.3		

4.1 Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	±1.0dB
Power Spectral Density, conducted	±2.2dB
Radio Frequency	± 1 x 10 ⁻⁶
Bandwidth	± 1.5 x 10 ⁻⁶



Time	±2%		
Duty Cycle	±2%		
Temperature	±1°C		
Humidity	±5%		
DC and low frequency voltages	±3%		
Conducted Emissions (150kHz~30MHz)	±3.64dB		
Radiated Emission(9KHz~30MHz)	±2.54dB		
Radiated Emission(30MHz~1GHz)	±5.03dB		
Radiated Emission(1GHz~25GHz)	±4.74dB		
Radiated Emission(25GHz-40GHz)	±4.14dB		
Remark: The coverage Factor (k=2), and measurement Uncertainty for a level of Confidence of 95%			



4.2 Description of Support Units

Equipment	Model No.	Series No.



5 Test Result

5.1 Conduction Emissions Measurement

5.1.1 Applied procedures / Limit

(Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Quasi-peak (dBuV)	Average (dBuV)	Standard
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	

0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

5.1.2 E.U.T. Operation

Operating Environment :

Temperature	:	23.9 °C
Humidity	:	51.4 % RH
Atmospheric Pressure	:	101.21kPa



5.1.3 Test procedure

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos



5.1.4 DEVIATION FROM TEST STANDARD

No deviation

5.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN. 2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes



5.1.6 Test results

Line



Note: Emission Level = Reading + AMN Factor+Cable Loss Over limited=Emission Level - Limit





20.39

27.10

50.00

22.90

PASS

Neutre

6

28.437

Note: Emission Level = Reading + AMN Factor+Cable Loss Over limited=Emission Level - Limit

60.00

39.61



5.2 Radiated Emissions Measurement

FCC Part15 section 15.407

5.2.1 Applied procedures / Limit

Test

Requirement:

Limits:

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz at 3M)

FREQUENCY (MHz)	PEAK (dBuV/m)	AVERAGE (dBuV/m)				
Above 1000	74	54				

Notes:

- (1) The lower limit shall apply at the transition frequencies.
- (2) Emission level (dBuV/m) = 20 log Emission level (uV/m).
- (3) For frequencies above 1000 MHz, the field strength limits are based on average detector, 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.

Measurement Distance: 3m (Semi-Anechoic Chamber)

Frequency 9 kHz – 40 GHz for transmitting mode.

range

Test instrumentation resolution bandwidth 9 kHz (9 kHz - 30 MHz), 120 kHz (30 MHz - 1000 MHz), 1 MHz (1000 MHz – 40 GHz)



Detector: For PK and QP value: RBW = 1 MHz for $f \ge 1 GHz$, 100 kHz for f < 1 GHz $VBW \ge RBW$ Sweep = auto Detector function = peak Trace = max hold For AV value: RBW = 1 MHz for $f \ge 1 GHz$, VBW = 10 HzSweep = auto Detector function = peak Trace = max hold

Test Procedure:

1)9 kHz to 30 MHz emissions:

For testing performed with the loop antenna, testing was performed in accordance to ANSI C63.10. The centre of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT, During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane.

2)30 MHz to 1 GHz emissions:

For testing performed with the bi-log type antenna, testing was performed in accordance to ANSI C63.10. The measurement is performed with the EUT rotated 360°, the antenna height scanned between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

3)1 GHz to 40 GHz emissions:

Test site with RF absorbing material covering the ground plane that met the site validation criterion called out in CISPR 16-1-4:2007 was used to perform radiated emission test above 1 GHz.

For testing performed with the horn antenna, testing was performed in accordance to ANSI C63.10. The measurement is performed with the EUT rotated 360°, the antenna height scan between 1m and 4m, and the antenna rotated to repeat the measurement for both the horizontal and vertical antenna polarizations.

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.

And according 15.35(a)

15.35(a) On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a CISPR quasi-peak detector function and related measurement bandwidths, unless otherwise specified. The specifications for the measuring instrument using the CISPR quasi-peak detector can be found in Publication 16 of the International Special Committee on Radio Interference (CISPR) of the International Electro technical Commission. As an alternative to CISPR quasi-peak measurements, the responsible party, at its option, may demonstrate compliance with the emission limits using measuring equipment employing a peak detector function, properly adjusted for such factors as pulse desensitization, as long as the same bandwidths as indicated for CISPR quasi-peak measurements are employed.

Note: For pulse modulated devices with a pulse-repetition frequency of 20 Hz or less and for which CISPR quasi-peak measurements are specified, compliance with the regulations shall be demonstrated using measuring equipment employing a peak detector function, properly adjusted for such factors as pulse desensitization, using the same measurement bandwidths that are indicated for CISPR quasi-peak measurements.

According to 15.35 (b) Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1 MHz. When average radiated emission measurements are specified in this part, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. Unless otherwise specified, e.g., see §§ 15.250, 15.252, 15.255, and 15.509-15.519 of this part, the limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device, e.g., the total peak power level. Note that the use of a pulse desensitization correction factor may be needed to determine the total peak emission level. The instruction manual or application note for the measurement instrument should be consulted for determining pulse desensitization factors, as necessary.



Test Configuration:

1) 9 kHz to 30 MHz emissions:





2) 30 MHz to 1 GHz emissions:



3) 1 GHz to 40 GHz emissions:



The field strength is calculated by adding the Antenna Factor, Cable Loss & Per-amplifier. The basic equation with a sample calculation is as follows:

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



5.2.2 E.U.T. Operation

Operating Environment :

Temperature	:	23.9 °C
Humidity	:	51.4 % RH
Atmospheric Pressure	:	101.21kPa

5.2.3 Radiated Emissions Test Data

9 kHz~30 MHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement

The measurements with active loop antenna were greater than 20dB below the limit, so the test data were not recorded in the test report.





30 MHz~1 GHz Field Strength of Unwanted Emissions. Quasi-Peak Measurement



4

5

6

211.39

336.52

625.10

53.6

48.36

36.97

Over limit=Emission Level - limit

-18.55

-14.51

-7.82



35.05

33.85

29.15

Note: Measurement Level = Reading Level + Factor, Factor=Ant Factor + Cable Loss- Pre-amplifier.

43.50

46.00

46.00

8.45

12.15

16.85

Horizontal

Horizontal

Horizontal



1~40 GHz Field Strength of Fundamental & Field Strength of Unwanted Emissions. Peak & Average Measurement.

Note:all model are tested and just worst case is record.

TX Mode:	Ant1		Μ	leasur	ement Distanc	e: 3	3 m		
Test channel:	802.11a-5	180MHz	F	reque	ncy Range:	-	1GHz to 40GHz		
RBW/VBW:	Spurious	emission: 1M	Hz/3MHz	for Pe	ak, 1MHz/10H	z for A	Average.		
1. Average measurement was not performed if peak level lower than average							n average limit.		
Remark: 2. Other frequency was 20dB belo					nit line within 1.	-40GF	Iz, there	is not show	
in the report.									
	Vertical								
Frequency (MHz)	Reading	Correct	Measu	ıre	Limit	М	arain		
	Level	Factor	Leve	el	(dBu)//m)	101	(dB)	Detector Type	
	(dBuV)	(dB)	(dBuV/	′m)	(ubuv/iii)	(ub)			
10360.000	39.31	12.56	51.87		74.00	-22	2.13	PEAK	
15540.000	37.85	16.45	54.30		74.00	-19	9.70	PEAK	
			Horizo	ntal					
Fraguanay	Reading	Correct	Measu	ire	Limit	М	orain		
	Level	Factor	Leve	el	(dRu)//m)		aryin dB)	Detector Type	
(10112)	(dBuV)	(dB)	(dBuV/	′m)	(ubuv/iii)	(ub)		
10360.000	38.52	12.56	51.08		74.00	-22	2.92	PEAK	
15540.000	36.49	16.45	52.94		74.00	-2′	1.06	PEAK	

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

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1		N	Measurement Distance:			3 m			
Test channel:	802.11a-5	220 MHz	F	reque	ncy Range:		1GHz to 40GHz			
RBW/VBW:	Spurious	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for						Average.		
	1. Average	e measureme	ent was no	t perf	ormed if peak l	evel	lower tha	n average limit.		
Remark: 2. Other frequency was 20dB below limit line within 1-400						-40G	Hz, there	is not show		
in the report.										
Vertical										
Frequency (MHz)	Reading	Correct	Measu	ire	Limit	Margin	largin	Detector Trace		
	Level	Factor	Leve		(dBuV/m)		(dB)	Detector Type		
	(dBuV)	(dB)	(dBuV/	'n)	· · · · ·		()			
10440.000	36.67	12.64	49.31		74.00	-2	4.69	PEAK		
15660.000	35.54	16.53	52.07		74.00	-2	1.93	PEAK		
			Horizo	ntal						
Frequency	Reading	Correct	Measu	ire	Limit		Iorgin			
	Level	Factor	Leve	el i			(dD)	Detector Type		
	(dBuV)	(dB)	(dBuV/	m)	(abuv/iii)		(ub)			
10440.000	37.12	12.64	49.76		74.00	-2	4.24	PEAK		
15660.000	35.36	16.53	51.89		74.00	-2	2.11	PEAK		

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1		N	Measurement Distance:			3 m		
Test channel:	802.11a-5	240 MHz	F	reque	ncy Range:		1GHz to 40GHz		
RBW/VBW:	Spurious	emission: 1M	Hz/3MHz	for Pe	eak, 1MHz/10H	z for	Average.		
	1. Average	e measureme	ent was no	t perf	ormed if peak l	evel	lower tha	n average limit.	
Remark: 2. Other frequency was 20dB below limit line within 1-40G						Hz, there is not show			
in the report.									
Vertical									
Frequency	Reading	Correct	Measu	ure			Iorgin		
	Level	Factor	Leve	1	(dBuV/m)	IV	(dB)	Detector Type	
(101112)	(dBuV)	(dB)	(dBuV/	m)	(dbdv/iii)		(ub)		
10480.000	36.48	12.68	49.16		74.00	-2	4.84	PEAK	
15720.000	34.75	16.54	51.29		74.00	-2	2.71	PEAK	
			Horiz	ontal					
Froquency	Reading	Correct	Measu	ire	Limit		Iorgin		
	Level	Factor	Leve	1		IV	(dD)	Detector Type	
(101112)	(dBuV)	(dB)	(dBuV/	m)	(dbdv/iii)		(ub)		
10480.000	35.12	12.68	47.80		74.00	-2	6.20	PEAK	
15720.000	34.37	16.54	50.91		74.00	-2	3.09	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1			Measurement Distance:			3 m		
Test channel:	802.11a-5	745 MHz		Freque	ncy Range:		1GHz to 40GHz		
RBW/VBW:	Spurious	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Ave							
	1. Average	e measureme	ent was r	not perf	ormed if peak l	evel l	ower tha	n average limit.	
Remark: 2. Other frequency was 20dB below limit line within 1-40GH:						Hz, there	is not show		
in the report.									
Vertical									
Frequency	Reading	Correct	Meas	sure			lorgin		
	Level	Factor	Lev	/el	(dBu)//m)		(dB)	Detector Type	
(101112)	(dBuV)	(dB)	(dBu\	V/m)	(dBdv/iii)		(UD)		
11490.000	33.84	16.82	50.6	6	74.00	-2	3.34	PEAK	
17235.000	35.72	22.93	58.6	65	74.00	-1	5.35	PEAK	
			Hori	zontal					
Frequency	Reading	Correct	Meas	sure	Limit	N	lorain		
	Level	Factor	Lev	/el		IV	argin (dB)	Detector Type	
	(dBuV)	(dB)	(dBu\	V/m)	(dBuV/m)		(ub)		
11490.000	34.21	16.82	51.0)3	74.00	-2	2.97	PEAK	
17235.000	35.58	22.93	58.51		74.00	-1	5.49	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1		N	Measurement Distance:			3 m		
Test channel:	802.11a-5	785 MHz	F	reque	ncy Range:		1GHz to 40GHz		
RBW/VBW:	Spurious	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Aver					Average.		
	1. Average	e measureme	ent was no	ot perf	ormed if peak l	evel	lower tha	n average limit.	
Remark:	2. Other fr	equency was	20dB be	low lin	nit line within 1	-40G	Hz, there	is not show	
in the report.									
Vertical									
Frequency	Reading	Correct	Measu	ure		N	larain		
	Level	Factor	Leve	el	(dBuV/m)	(dB)	Detector Type		
	(dBuV)	(dB)	(dBuV/	/m)	(dbuv/iii)		(ub)		
11570.000	34.10	16.71	50.81		74.00	-2	3.19	PEAK	
17355.000	36.79	24.37	61.16		74.00	-1	2.84	PEAK	
			Horiz	ontal					
Frequency	Reading	Correct	Measu	ıre	Limit	N	largin		
	Level	Factor	Leve	el	(dBu)//m)	IV	(dB)	Detector Type	
(101112)	(dBuV)	(dB)	(dBuV/	/m)	(dbdv/iii)		(ub)		
11570.000	33.25	16.71	49.96	;	74.00	-2	4.04	PEAK	
17355.000	35.58	24.37	59.95	;	74.00	-1	4.05	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1		Ν	Measurement Distance:			3 m		
Test channel:	802.11a-5	825 MHz	F	reque	ncy Range:		1GHz to 40GHz		
RBW/VBW:	Spurious	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.							
	1. Average	e measureme	ent was no	ot perf	ormed if peak l	evel l	ower tha	n average limit.	
Remark: 2. Other frequency was 20dB below limit line within 1-40GHz, there is no							is not show		
in the report.									
Vertical									
Frequency	Reading	Correct	Measu	Jre			orgin		
	Level	Factor	Leve	el	(dBu)//m)		(dB)	Detector Type	
	(dBuV)	(dB)	(dBuV	/m)	(dbuv/iii)	(ub)			
11650.000	34.12	16.61	50.73	3	74.00	-2	3.27	PEAK	
17475.000	29.38	25.01	54.39)	74.00	-1	9.61	PEAK	
			Horiz	ontal					
Frequency	Reading	Correct	Measu	ure	Limit		orgin		
	Level	Factor	Leve	el		IV	aryin (ap)	Detector Type	
	(dBuV)	(dB)	(dBuV	/m)	(ubuv/iii)	'	(ub)		
11650.000	35.72	16.61	52.33	3	74.00	-2	1.67	PEAK	
17475.000	28.82	25.01	53.83	3	74.00	-2	0.17	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1			Measurement Distance:			3 m		
Test channel:	802.11n H	IT20-5180MH	lz	Freque	ncy Range:		1GHz to 40GHz		
RBW/VBW:	Spurious	Spurious emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.							
	1. Average	e measureme	ent was r	not perf	ormed if peak l	evel l	ower tha	n average limit.	
Remark: 2. Other frequency was 20dB below limit line within 1-40GHz						Hz, there	Hz, there is not show		
in the report.									
Vertical									
Frequency	Reading	Correct	Meas	sure			lorgin		
	Level	Factor	Lev	/el	(dBuV/m)	IV	(dB)	Detector Type	
	(dBuV)	(dB)	(dBu∖	//m)	(dbdv/iii)	(ub)			
10360.000	33.24	12.56	45.8	0	74.00	-2	8.20	PEAK	
15540.000	35.37	16.45	51.8	2	74.00	-2	2.18	PEAK	
			Hori	zontal					
Frequency	Reading	Correct	Meas	sure	Limit	N	lorgin		
	Level	Factor	Lev	/el		IV	aryin (dD)	Detector Type	
	(dBuV)	(dB)	(dBu∖	//m)	(ubuv/iii)		(ub)		
10360.000	35.73	12.56	48.2	9	74.00	-2	5.71	PEAK	
15540.000	36.15	16.45	52.6	0	74.00	-2	1.40	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1		I	Measurement Distance:			3 m		
Test channel:	802.11n H	T20-5220MH	lz I	Freque	ncy Range:		1GHz to 40GHz		
RBW/VBW:	Spurious	emission: 1M	Hz/3MHz	z for Pe	eak, 1MHz/10H	z for .	Average.		
	1. Average	e measureme	ent was n	ot perf	ormed if peak l	evel l	ower tha	n average limit.	
Remark:2. Other frequency was 20dB below limit line within 1-40GHz, there is						is not show			
in the report.									
Vertical									
Frequency	Reading	Correct	Meas	sure			lorgin		
	Level	Factor	Level		(dBuV/m)	IV	(dB)	Detector Type	
(101112)	(dBuV)	(dB)	(dBu∖	//m)	(dbdv/iii)	(ub)			
10440.000	33.98	12.64	46.6	2	74.00	-2	7.38	PEAK	
15660.000	29.44	16.53	45.9	7	74.00	-2	8.03	PEAK	
			Horiz	zontal					
Froquency	Reading	Correct	Meas	sure	Limit	N/	lorgin		
	Level	Factor	Lev	el			aryin (ap)	Detector Type	
(101112)	(dBuV)	(dB)	(dBu∖	//m)	(dbdv/iii)		(UD)		
10440.000	32.12	12.64	44.7	6	74.00	-2	9.24	PEAK	
15660.000	28.91	16.53	45.44		74.00	-2	8.56	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1		I	Measurement Distance:			3 m		
Test channel:	802.11n H	T20-5240MH	lz I	Freque	ncy Range:		1GHz to 40GHz		
RBW/VBW:	Spurious	emission: 1M	Hz/3MHz	MHz for Peak, 1MHz/10Hz for Average.					
	1. Average measurement was not performed if peak level lower than average li							n average limit.	
Remark: 2. Other frequency was 20dB below limit line within 1-40GHz, there i						is not show			
in the report.									
			Verti	ical					
Frequency	Reading	Correct	Meas	sure	Limit	54	orgin		
	Level	Factor	Lev	rel	(dBu)//m)		(dB)	Detector Type	
(101112)	(dBuV)	(dB)	(dBu∖	//m)	(dbdv/iii)				
10480.000	33.15	12.68	45.8	3	74.00	-28	8.17	PEAK	
15720.000	29.36	16.54	45.9	0	74.00	-28	8.10	PEAK	
			Horiz	zontal					
Froquency	Reading	Correct	Meas	sure	Limit	54	orgin		
	Level	Factor	Lev	'el			aryin (ap)	Detector Type	
(101112)	(dBuV)	(dB)	(dBu∖	//m)	(dbdv/iii)		(ub)		
10480.000	34.50	12.68	47.1	8	74.00	74.00 -26.82		PEAK	
15720.000	28.83	16.54	45.3	7	74.00	-28	8.63	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1			Measu	rement Distanc	e:	3 m		
Test channel:	802.11n H	T20-5745MH	lz	Freque	ncy Range:		1GHz to 40GHz		
RBW/VBW:	Spurious	emission: 1M	Hz/3MH	MHz for Peak, 1MHz/10Hz for Average.					
	1. Average measurement was not performed if peak level lower than average li							n average limit.	
Remark: 2. Other frequency was 20dB below limit line within 1-40GHz, there is not sh						is not show			
in the report.									
Vertical									
Frequency	Reading	Correct	Meas	sure	Limit		lorgin		
	Level	Factor	Lev	/el	(dBuV/m)	IV	(dB)	Detector Type	
(10112)	(dBuV)	(dB)	(dBu∖	//m)	(dBdV/III)	(ub)			
11490.000	34.95	16.82	51.7	7	74.00	-2	2.23	PEAK	
17235.000	29.91	22.93	52.8	4	74.00	-2	1.16	PEAK	
			Hori	zontal					
Frequency	Reading	Correct	Meas	sure	Limit	N	lorgin		
	Level	Factor	Lev	/el		IV	aryin (dD)	Detector Type	
	(dBuV)	(dB)	(dBu∖	//m)	m) (dBuV/m)		(ub)		
11570.000	35.83	16.71	52.5	4	74.00 -21.46		PEAK		
17235.000	28.42	22.93	51.3	5	74.00	-2	2.65	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1			Measurement Distance:			3 m		
Test channel:	802.11n H	IT20-5785MH	lz	Freque	ncy Range:		1GHz to 40GHz		
RBW/VBW:	Spurious	emission: 1M	Hz/3MH	z for Pe	eak, 1MHz/10H	z for	Average.		
1. Average measurement was not performed if peak level lower than average li							n average limit.		
Remark: 2. Other frequency was 20dB below limit line within 1-40GHz, there is not s						is not show			
in the report.									
Vertical									
Frequency	Reading	Correct	Measure		Limit	Morgin			
	Level	Factor	Lev	/el	(dBu)//m)	IV	(dR)	Detector Type	
	(dBuV)	(dB)	(dBu\	V/m)	(dbdv/iii)		(UD)		
11570.000	35.39	16.71	52.1	0	74.00	-2	1.90	PEAK	
17355.000	28.72	24.37	53.0)9	74.00	-2	0.91	PEAK	
			Hori	zontal					
Froquency	Reading	Correct	Meas	sure	Limit	N	lorain		
	Level	Factor	Lev	/el		IV	aryin (ap)	Detector Type	
	(dBuV)	(dB)	(dBu\	V/m) (dBuV/m)			(ub)		
11570.000	36.12	16.71	52.8	33	74.00	-2	1.17	PEAK	
17355.000	29.48	24.37	53.8	85	74.00	-2	0.15	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1			Measu	rement Distanc	e:	3 m		
Test channel:	802.11n H	T20-5825MH	lz	Freque	ncy Range:		1GHz to 40GHz		
RBW/VBW:	Spurious e	emission: 1M	MHz/3MHz for Peak, 1MHz/10Hz for Average						
1. Average measurement was not performed if peak level lower than average lim							n average limit.		
Remark: 2. Other frequency was 20dB below limit line within 1-40GH						Hz, there	is not show		
in the report.									
Vertical									
Frequency	Reading	Correct	Meas	sure	Limit	Morgin			
	Level	Factor	Level		(dBu)//m)	IV	(dR)	Detector Type	
(101112)	(dBuV)	(dB)	(dBu\	V/m)	(dBdv/iii)	(UD)			
11650.000	33.56	16.61	50.1	7	74.00	-2	3.83	PEAK	
17475.000	29.71	25.01	54.7	2	74.00	-1	9.28	PEAK	
			Hori	zontal					
Frequency	Reading	Correct	Meas	sure	Limit	N	Iorgin		
	Level	Factor	Lev	/el		IV	argin (dD)	Detector Type	
	(dBuV)	(dB)	(dBu\	V/m)	/m) (dBuV/m)		(ub)		
11650.000	34.82	16.61	51.4	.3	74.00 -22.57		2.57	PEAK	
17475.000	28.37	25.01	53.3	8	74.00	-2	0.62	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1			Measurement Distance:			3 m		
Test channel:	802.11n H	T40-5190MH	lz	Freque	ncy Range:		1GHz to 40GHz		
RBW/VBW:	Spurious	emission: 1M	Hz/3MH	z for Pe	eak, 1MHz/10H	z for	Average.		
1. Average measurement was not performed if peak level lower than average li							n average limit.		
Remark: 2. Other frequency was 20dB below limit line within 1-40G						Hz, there	is not show		
in the report.									
Vertical									
Frequency	Reading	Correct	Measure		Limit	Morgin			
	Level	Factor	Lev	/el	(dBu)//m)	IV	(dB)	Detector Type	
	(dBuV)	(dB)	(dBu∖	//m)	(dbdv/iii)	(UD)			
10380.000	39.13	12.58	51.7	1	74.00	-2	2.29	PEAK	
15570.000	28.50	16.48	44.9	8	74.00	-2	9.02	PEAK	
			Hori	zontal					
Froquency	Reading	Correct	Meas	sure	Limit	N	lorain		
	Level	Factor	Lev	/el		IV	aryin (ap)	Detector Type	
	(dBuV)	(dB)	(dBu∖	ıV/m) (dBuV/m)			(ub)		
10380.000	38.30	12.58	50.8	8	3 74.00 -23.12		PEAK		
15570.000	29.43	16.48	45.9	1	74.00	-2	8.09	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1			Measu	rement Distanc	e:	3 m		
Test channel:	802.11n H	IT40-5230MH	lz	Freque	ncy Range:		1GHz to 40GHz		
RBW/VBW:	Spurious	emission: 1M	Hz/3MH	z for Pe	eak, 1MHz/10H	z for	Average.		
	1. Average measurement was not performed if peak level lower than average li							n average limit.	
Remark: 2. Other frequency was 20dB below limit line within 1-40GHz						Hz, there	is not show		
in the report.									
			Vert	ical					
Frequency	Reading	Correct	Meas	sure	Limit		Iorgin		
	Level	Factor	Level		(dBu)//m)	IV	(dB)	Detector Type	
	(dBuV)	(dB)	(dBu∖	//m)	(dbdv/iii)	(ub)			
10460.000	37.40	12.66	50.0	6	74.00	-2	3.94	PEAK	
15690.000	28.21	16.53	44.7	4	74.00	-2	9.26	PEAK	
			Hori	zontal					
Froquency	Reading	Correct	Meas	sure	Limit	N	Iorgin		
	Level	Factor	Lev	/el		IV	argin (dD)	Detector Type	
	(dBuV)	(dB)	(dBu∖	//m)	/m) (dBuV/m)		(ub)		
10460.000	36.23	12.66	48.8	9	74.00 -25.11		25.11	PEAK	
15690.000	26.54	16.53	43.0	7	74.00	-3	0.93	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1			Measu	rement Distanc	e:	3 m		
Test channel:	802.11n H	T40-5755MH	lz	Freque	ncy Range:		1GHz to	40GHz	
RBW/VBW:	Spurious	emission: 1M	Hz/3MH:	z/3MHz for Peak, 1MHz/10Hz for Average.					
1. Average measurement was not performed if peak level lower than average line							n average limit.		
Remark: 2. Other frequency was 20dB below limit line within 1-40GHz, ther						Hz, there	is not show		
	in the repo	ort.							
Vertical									
Frequency (MHz)	Reading	Correct	Meas	sure	Limit	Margin			
	Level	Factor	Lev	/el	(dBuV/m)		(dB)	Detector Type	
(11112)	(dBuV)	(dB)	(dBu∖	//m)		(40)			
11510.000	34.59	16.78	51.3	7	74.00	-2	2.63	PEAK	
17265.000	28.31	23.29	51.6	0	74.00	-2	2.40	PEAK	
			Hori	zontal					
Frequency	Reading	Correct	Meas	sure	Limit	N	largin		
	Level	Factor	Lev	/el		IV	(dD)	Detector Type	
(101112)	(dBuV)	(dB)	(dBu∖	//m)	and (and and and and and and and and and and		(ub)		
11510.000	35.12	16.78	51.9	90 74.00 -22.10		2.10	PEAK		
17265.000	29.43	23.29	52.7	2	74.00	-2	1.28	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1		I	Veasu	rement Distanc	e:	3 m		
Test channel:	802.11n H	IT40-5795MH	lz I	Freque	ncy Range:		1GHz to 40GHz		
RBW/VBW:	Spurious	emission: 1M	Hz/3MHz	z for Pe	eak, 1MHz/10H	z for	Average.		
	1. Average measurement was not performed if peak level lower than average li							n average limit.	
Remark: 2. Other frequency was 20dB below limit line within 1-40GHz, there is not s						is not show			
in the report.									
Vertical									
Frequency	Reading	Correct	Measure		Limit		lorgin		
	Level	Factor	Lev	el	(dBu)//m)	IV	(dB)	Detector Type	
	(dBuV)	(dB)	(dBu∖	//m)	(dbd v/m)				
11590.000	36.31	16.69	53.0	0	74.00	-2	1.00	PEAK	
17385.000	31.40	24.73	56.1	3	74.00	-1	7.87	PEAK	
			Horiz	zontal					
Froquency	Reading	Correct	Meas	ure	Limit	N	lorgin		
	Level	Factor	Lev	el	(dBu)//m)	IV	(dB)	Detector Type	
(101112)	(dBuV)	(dB)	(dBu∖	V/m) (dBuV/m)			(ub)		
11590.000	34.87	16.69	51.5	6 74.00 -22.44		PEAK			
17385.000	28.20	24.73	52.9	3	74.00	-2	1.07	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1			Measurement Distance:			3 m		
Test channel:	802.11ac	HT20-5180M	Hz	Freque	ncy Range:		1GHz to 40GHz		
RBW/VBW:	Spurious	emission: 1M	Hz/3MH	z for Pe	eak, 1MHz/10H	z for	Average.		
1. Average measurement was not performed if peak level lower than average li							n average limit.		
Remark: 2. Other frequency was 20dB below limit line within 1-40GHz, there						Hz, there	is not show		
in the report.									
Vertical									
Frequency	Reading	Correct	Measure		Limit	Morgin			
	Level	Factor	Lev	/el	(dBu)//m)	IV	(dR)	Detector Type	
(101112)	(dBuV)	(dB)	(dBu\	V/m)	(dbdv/iii)	(ub)			
10360.000	34.79	12.56	47.3	35	74.00	-2	6.65	PEAK	
15540.000	30.48	16.45	46.9)3	74.00	-2	7.07	PEAK	
			Hori	zontal					
Froquency	Reading	Correct	Meas	sure	Limit	Ν/	lorain		
	Level	Factor	Lev	/el		IV	aryin (ap)	Detector Type	
(10172)	(dBuV)	(dB)	(dBu\	V/m)	(abuv/iii)		(ub)		
10360.000	33.05	12.56	45.6	61	74.00	74.00 -28.39		PEAK	
15540.000	29.34	16.45	45.7	'9	74.00	-2	8.21	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.


TX Mode:	Ant1			Measu	rement Distanc	e:	3 m		
Test channel:	802.11ac	HT20-5220M	Hz	Freque	ncy Range:		1GHz to	40GHz	
RBW/VBW:	Spurious	emission: 1M	Hz/3MH	Average.					
	1. Average	ge measurement was not performed if peak level lower tha						n average limit.	
Remark:	2. Other fr	equency was	juency was 20dB below limit line within 1-40GHz, there is i						
	in the repo	ort.							
			Vert	ical					
Frequency	Reading	Correct	Measure		Limit	N	Iorgin		
	Level	Factor	Level		(dBu)//m)	IV	argin (dB)	Detector Type	
	(dBuV)	(dB)	(dBuV/m)		(dbdv/iii)		(ub)		
10440.000	34.87	12.64	47.5	51	74.00	-2	6.49	PEAK	
15660.000	31.69	16.53	48.2	22	74.00	-2	5.78	PEAK	
			Hori	izontal					
Froquency	Reading	Correct	Meas	sure	Limit	N	Iorgin		
	Level	Factor	Lev	/el		IV	(dD)	Detector Type	
	(dBuV)	(dB)	(dBu\	V/m)	(abuv/iii)		(ub)		
10440.000	33.66	12.64	46.3	30	74.00	-2	7.70	PEAK	
15660.000	32.01	16.53	48.5	54	74.00	-2	5.46	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1			Measu	rement Distanc	e:	3 m			
Test channel:	802.11ac	HT20-5240M	0-5240MHz Frequency Range				1GHz to	40GHz		
RBW/VBW:	Spurious	emission: 1MHz/3MHz for Peak, 1MHz/10Hz for A					Average.			
	1. Average	e measureme	ent was r	not perf	ormed if peak l	evel	lower than average limit.			
Remark:	2. Other fr	equency was	equency was 20dB below limit line within 1-40GF					GHz, there is not show		
	in the repo	ort.								
			Vert	ical						
Frequency	Reading	Correct	Measure		Limit		Iorgin			
(MH-7)	Level	Factor	Level		(dBu)//m)		(dB)	Detector Type		
(101112)	(dBuV)	(dB)	(dBu	V/m)	(dBdV/III)					
10480.000	34.46	12.68	47.1	4	74.00	-2	6.86	PEAK		
15720.000	32.93	16.54	49.4	7	74.00	-2	4.53	PEAK		
			Hori	zontal						
Frequency	Reading	Correct	Measure		Limit		Iorgin			
	Level	Factor	Level		(dBu)//m)		(dB)	Detector Type		
(10172)	(dBuV)	(dB)	(dBuV/m)		(abuv/iii)		(ub)			
10480.000	33.15	12.68	45.83		74.00	-2	8.17	PEAK		
15720.000	34.79	16.54	51.3	33	74.00	-2	2.67	PEAK		

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1			Measu	rement Distanc	e:	3 m		
Test channel:	802.11ac	HT20-5745M	Hz	Freque	ncy Range:		1GHz to 40GHz		
RBW/VBW:	Spurious	emission: 1M	ission: 1MHz/3MHz for Peak, 1MHz/10Hz for Ave						
	1. Average	je measurement was not performed if peak level lower						n average limit.	
Remark:	2. Other fr	equency was	uency was 20dB below limit line within 1-40GHz, there is						
	in the repo	ort.							
			Vertical						
Frequency	Reading	Correct	Meas	sure	Limit		lorgin		
	Level	Factor	Level		(dBu)//m)	IV	(dB)	Detector Type	
	(dBuV)	(dB)	(dBuV/m)		(dbdv/iii)		(UD)		
11490.000	34.93	16.82	51.7	5	74.00	-2	2.25	PEAK	
17235.000	32.76	22.93	55.6	9	74.00	-1	8.31	PEAK	
			Hori	zontal					
Froquency	Reading	Correct	Measure		Limit	N	lorain		
	Level	Factor	Lev	/el		IV	aryin (ap)	Detector Type	
	(dBuV)	(dB)	(dBu∖	//m)	(abuv/iii)		(ub)		
11490.000	36.17	16.82	52.99		74.00	-2	1.01	PEAK	
17235.000	28.22	22.93	51.1	5	74.00	-2	2.85	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1			Measu	rement Distanc	e:	3 m		
Test channel:	802.11ac	HT20-5785M	Hz	Freque	ncy Range:		1GHz to 40GHz		
RBW/VBW:	Spurious	emission: 1M	ission: 1MHz/3MHz for Peak, 1MHz/10Hz for Avera						
	1. Average	e measurement was not performed if peak level lower th						n average limit.	
Remark:	2. Other fr	equency was	uency was 20dB below limit line within 1-40GHz, there is						
	in the repo	ort.							
			Vert	ical					
Frequency	Reading	Correct	Meas	sure	Limit	N	Iorgin		
	Level	Factor	Level		(dBu)//m)	IV	argin (dB)	Detector Type	
	(dBuV)	(dB)	(dBuV/m)		(dBdV/III)		(ub)		
11570.000	35.86	16.71	52.5	57	74.00	-2	1.43	PEAK	
17355.000	29.14	24.37	53.5	51	74.00	-2	0.49	PEAK	
			Hori	izontal					
Froquency	Reading	Correct	Measure		Limit	N	Iorgin		
	Level	Factor	Lev	/el		IV	(dD)	Detector Type	
	(dBuV)	(dB)	(dBu	V/m)	(abuv/iii)		(ub)		
11570.000	34.27	16.71	50.98		74.00	-2	3.02	PEAK	
17355.000	28.66	24.37	53.0)3	74.00	-2	0.97	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1		l	Measu	rement Distanc	e:	3 m			
Test channel:	802.11ac	HT20-5825M	Hz	Freque	ncy Range:		1GHz to	40GHz		
RBW/VBW:	Spurious	emission: 1MHz/3MHz for Peak, 1MHz/10Hz for A					Average.			
	1. Average	e measureme	ent was n	ot perf	ormed if peak l	evel	lower than average limit.			
Remark:	2. Other fr	equency was	equency was 20dB below limit line within 1-40GF					GHz, there is not show		
	in the repo	ort.								
			Verti							
Frequency	Reading	Correct	Measure		Limit		lorgin			
(MH-7)	Level	Factor	Lev	'el	(dBu)//m)	IV	(dB)	Detector Type		
(10112)	(dBuV)	(dB)	(dBu∖	//m)	(dBdV/III)		(ub)			
11650.000	35.58	16.61	52.1	9	74.00	-2	1.81	PEAK		
17475.000	29.30	25.01	54.3	1	74.00	-1	9.69	PEAK		
			Hori	zontal						
Frequency	Reading	Correct	Meas	sure	Limit	N	lorgin			
	Level	Factor	Lev	rel		IV	argin (dD)	Detector Type		
	(dBuV)	(dB)	(dBu∖	//m)	(abuv/iii)		(ub)			
11650.000	33.29	16.61	49.9	0	74.00	-2	4.10	PEAK		
17475.000	28.76	25.01	53.7	7	74.00	-2	0.23	PEAK		

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1			Measu	rement Distanc	e:	3 m			
Test channel:	802.11ac	HT40-5190M	Hz	Freque	ncy Range:		1GHz to 40GHz			
RBW/VBW:	Spurious	emission: 1M	emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Av					Average.		
	1. Average	/erage measurement was not performed if peak level lower th						n average limit.		
Remark:	2. Other fr	equency was	quency was 20dB below limit line within 1-40GHz, there is n							
	in the repo	ort.								
			Vertical							
Frequency	Reading	Correct	Meas	sure	Limit		lorgin			
	Level	Factor	Lev	/el	LIIIII (dBu)//m)	IV	(dB)	Detector Type		
(101112)	(dBuV)	(dB)	(dBu\	V/m)	(dBdV/III)		(UD)			
10380.000	33.12	12.58	45.7	0	74.00	-2	8.30	PEAK		
15570.000	30.35	16.48	46.8	33	74.00	-2	7.17	PEAK		
			Hori	zontal						
Froquency	Reading	Correct	Meas	sure	Limit	N	lorain			
	Level	Factor	Lev	/el		IV	(dD)	Detector Type		
	(dBuV)	(dB)	(dBu\	V/m)	(dBdV/III)		(UD)			
10380.000	35.57	12.58	48.1	5	74.00	-2	5.85	PEAK		
15570.000	32.60	16.48	49.0	8	74.00	-2	4.92	PEAK		

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1			Measu	rement Distanc	e:	3 m		
Test channel:	802.11ac	HT40-5230M	0-5230MHz Frequency F				1GHz to	40GHz	
RBW/VBW:	Spurious	emission: 1MHz/3MHz for Peak, 1MHz/10Hz for A					Average.		
	1. Average	e measureme	ent was r	not perf	ormed if peak l	evel l	lower than average limit.		
Remark:	2. Other fr	equency was 20dB below limit line within 1-40GF				Hz, there is not show			
	in the repo	ort.							
			Vert	ical					
Frequency	Reading	Correct	Measure		Limit		Iorgin		
(MH-7)	Level	Factor	Level		(dBu)//m)	IV	(dB)	Detector Type	
(10112)	(dBuV)	(dB)	(dBu	V/m)	(dBdV/III)				
10460.000	34.21	12.66	46.8	87	74.00	-2	7.13	PEAK	
15690.000	30.66	16.53	47.1	9	74.00	-2	6.81	PEAK	
			Hori	zontal					
Froquency	Reading	Correct	Measure		Limit	N	lorgin		
	Level	Factor	Lev	/el	(dBu)//m)	IV	(dB)	Detector Type	
	(dBuV)	(dB)	(dBu	V/m)	(abuv/iii)		(ub)		
10460.000	35.14	12.66	47.80		74.00	-2	6.20	PEAK	
15690.000	30.77	16.53	47.3	80	74.00	-2	6.70	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1			Measu	rement Distanc	e:	3 m		
Test channel:	802.11ac	HT40-5755M	-5755MHz Frequency Range:				1GHz to 40GHz		
RBW/VBW:	Spurious	emission: 1M	ission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average.						
	1. Average	age measurement was not performed if peak level lower than ave						n average limit.	
Remark:	2. Other fr	equency was	quency was 20dB below limit line within 1-40GHz, there is not						
	in the repo	ort.							
			Vertical						
Frequency	Reading	Correct	Meas	sure	Limit		lorgin		
	Level	Factor	Level		(dBu)//m)	IV	(dB)	Detector Type	
	(dBuV)	(dB)	(dBuV/m)		(dBdv/iii)		(UD)		
11510.000	36.37	16.78	53.1	5	74.00	-2	0.85	PEAK	
17265.000	32.92	23.29	56.2	21	74.00	-1	7.79	PEAK	
			Hori	zontal					
Froquency	Reading	Correct	Measure		Limit	N	lorain		
	Level	Factor	Level			IV	aryin (ap)	Detector Type	
	(dBuV)	(dB)	(dBuV/m)		(abuv/iii)		(ub)		
11510.000	34.85	16.78	51.63		74.00	-2	2.37	PEAK	
17265.000	31.20	23.29	54.4	9	74.00	-1	9.51	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1			Measu	rement Distanc	e:	3 m		
Test channel:	802.11ac	HT40-5795M	Hz	Freque	ncy Range:		1GHz to	40GHz	
RBW/VBW:	Spurious	emission: 1M	Hz/3MH	Average.					
	1. Average	age measurement was not performed if peak level lower than						n average limit.	
Remark:	2. Other fr	equency was	uency was 20dB below limit line within 1-40GHz, there i						
	in the repo	ort.							
			Vertical						
Frequency	Reading	Correct	Measure		Limit		lorgin		
	Level	Factor	Level		(dBu)//m)	IV	(dB)	Detector Type	
(10112)	(dBuV)	(dB)	(dBuV/m)		(dBdV/III)		(ub)		
11590.000	33.17	16.69	49.8	36	74.00	-2	24.14	PEAK	
17385.000	31.62	24.73	56.3	35	74.00	-1	7.65	PEAK	
			Hor	izontal					
Froquency	Reading	Correct	Measure		Limit	N	Iorain		
	Level	Factor	Level			IV	(dD)	Detector Type	
	(dBuV)	(dB)	(dBu'	V/m)	(abuv/iii)		(ub)		
11590.000	34.80	16.69	51.49		74.00	-2	2.51	PEAK	
17385.000	30.35	24.73	55.0)8	74.00	-1	8.92	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1			Measu	rement Distanc	e:	3 m		
Test channel:	802.11ac	HT80-5210M	Hz	Freque	ncy Range:		1GHz to	40GHz	
RBW/VBW:	Spurious	emission: 1MHz/3MHz for Peak, 1MHz/10Hz for Av					Average.		
	1. Average	verage measurement was not performed if peak level lower th						n average limit.	
Remark:	2. Other fr	equency was 20dB below limit line within 1-40GHz, there is n						is not show	
	in the repo	ort.							
			Vertical						
Frequency	Reading	Correct	Meas	sure	Limit	N	Iorgin		
	Level	Factor	Lev	/el	(dBu)//m)	IV	(dB)	Detector Type	
(10112)	(dBuV)	(dB)	(dBu∖	//m)	(dBdV/III)		(ub)		
10420.000	32.16	12.62	44.7	8	74.00	-2	9.22	PEAK	
15630.000	29.94	16.52	46.4	6	74.00	-2	7.54	PEAK	
			Hori	zontal					
Frequency	Reading	Correct	Meas	sure	Limit	N	Iorgin		
	Level	Factor	Lev	/el		IV	argin (dD)	Detector Type	
	(dBuV)	(dB)	(dBu∖	//m)	(ubuv/iii)		(ub)		
10420.000	34.52	12.62	47.1	4	74.00	-2	6.86	PEAK	
15630.000	31.76	16.52	48.2	8	74.00	-2	5.72	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



TX Mode:	Ant1			Measu	rement Distanc	e:	3 m		
Test channel:	802.11ac	HT80-5775M	Hz	Freque	ncy Range:		1GHz to	40GHz	
RBW/VBW:	Spurious	emission: 1M	nission: 1MHz/3MHz for Peak, 1MHz/10Hz for Average						
	1. Average	verage measurement was not performed if peak level lower than ave						n average limit.	
Remark:	2. Other fr	equency was	equency was 20dB below limit line within 1-40GHz, there is not						
	in the repo	ort.							
			Vertical						
Frequency	Reading	Correct	Meas	sure	Limit		lorgin		
	Level	Factor	Lev	/el	(dBu)//m)	IV	(dB)	Detector Type	
	(dBuV)	(dB)	(dBu∖	//m)	(dbdv/iii)		(UD)		
11550.000	33.11	16.73	49.8	4	74.00	-2	4.16	PEAK	
17325.000	30.45	24.01	54.4	6	74.00	-1	9.54	PEAK	
			Hori	zontal					
Frequency	Reading	Correct	Meas	sure	Limit	N	lorgin		
	Level	Factor	Lev	/el		IV	argin (dB)	Detector Type	
	(dBuV)	(dB)	(dBu∖	//m)	(ubuv/iii)		(ub)		
11550.000	34.78	16.73	51.5	51	74.00	-2	2.49	PEAK	
17325.000	31.54	24.01	55.5	5	74.00	-1	8.45	PEAK	

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

Average measurement was not performed if peak level lower than average limit.

No any other emissions level which are attenuated less than 20dB below the limit.

According to 15.31(o), The amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part.



5.3 Radiated Restricted Band Edge Measurement

5.3.1 Applied procedures / Limit

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(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 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(4) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

(5) The provisions of §15.205 apply to intentional radiators operating under this section. (6) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

5.3.2 Test procedure

For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stan Eraguanay	Lower Band Edge: 5150 MHz
Start/Stop Frequency	Upper Band Edge: 5350 MHz
RB / VB (emission in restricted band)	1000 KHz/3000 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting					
Detector	Peak					
Stort/Stop Fragueney	Lower Band Edge: 5700 to 5725 MHz					
Start/Stop Frequency	Upper Band Edge: 5850 to 5870 MHz					
RB / VB (emission in restricted band)	1000 KHz/3000 KHz					
Trace-Mode:	Max hold					



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Test setup;



5.3.3 Deviation from standard

No deviation.



5.3.4 Test results

TestMod e	Antenn a	ChNam e	Frequenc y[MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/ m]	Limit [dBuV/m]	Verdict
				AV	4500.000	-50.35	≤-41.20	44.85	≤54	PASS
				AV	5149.600	-42.68	≤-41.20	52.52	≤54	PASS
				AV	5150.000	-42.73	≤-41.20	52.47	≤54	PASS
	Ant1	Low	5180	Peak	4500.000	-47.32	≤-21.20	47.88	≤74	PASS
				Peak	5143.300	-35.65	≤-21.20	59.55	≤74	PASS
				Peak	5150.000	-43.88	≤-21.20	51.32	≤74	PASS
				AV	4500.000	-50.48	≤-41.20	44.72	≤54	PASS
				AV	5146.800	-43.44	≤-41.20	51.76	≤54	PASS
	A = 10	Law	5400	AV	5150.000	-43.68	≤-41.20	51.52	≤54	PASS
	Antz	LOW	5160	Peak	4500.000	-44.79	≤-21.20	50.41	≤74	PASS
				Peak	5145.400	-33.41	≤-21.20	61.79	≤74	PASS
				Peak	5150.000	-32.04	≤-21.20	63.16	≤74	PASS
			5240	AV	5350.000	-50.42	≤-41.20	44.78	≤54	PASS
				AV	5450.880	-50.03	≤-41.20	45.17	≤54	PASS
	Apt1	High		AV	5460.000	-50.47	≤-41.20	44.73	≤54	PASS
11 ^	Anti	riigii		Peak	5350.000	-44.75	≤-21.20	50.45	≤74	PASS
ПА				Peak	5357.040	-40.74	≤-21.20	54.46	≤74	PASS
				Peak	5460.000	-46.07	≤-21.20	49.13	≤74 ≤74	PASS
				AV	5350.000	-50.4	≤-41.20	44.80	≤54	PASS
				AV	5388.960	-49.47	≤-41.20	45.73	≤54	PASS
	A ntO	High	5040	AV	5460.000	-50.42	≤-41.20	44.78	≤54	PASS
	Antz	піgn	5240	Peak	5350.000	-45.43	≤-21.20	49.77	≤74	PASS
				Peak	5428.800	-41.54	≤-21.20	53.66	≤74	PASS
				Peak	5460.000	-45.31	≤-21.20	49.89	≤74	PASS
				Peak	5650.000	-39.77 4	≤-27.00			PASS
	Ant1	Low	5745	Peak	5700.000	-25.9	≤10.00			PASS
				Peak	5720.000	-15.45	≤15.60			PASS
				Peak	5725.000	-13.05	≤27.00			PASS
	Ant2	Low	5745	Peak	5650.000	-35.41 2	≤-27.00			PASS
				Peak	5700.000	-16.84	≤10.00			PASS



				Peak	5720.000	-12.01	≤15.60			PASS
				Peak	5725.000	-10.32	≤27.00			PASS
				Peak	5850.000	-30.14 7	≤15.60			PASS
	Ant1	High	5825	Peak	5855.000	-31.26	≤27.00			PASS
				Peak	5875.000	-35.47	≤15.60			PASS
				Peak	5925.000	-41.35	≤10.00			PASS
	Ant2			Peak	5850.000	-20.04 3	≤15.60			PASS
		High	5825	Peak	5855.000	-22.89	≤27.00			PASS
				Peak	5875.000	-32.45	≤15.60			PASS
				Peak	5925.000	-42.91	≤10.00			PASS
				AV	4500.000	-50.33	≤-41.20	44.87	≤54	PASS
				AV	5149.600	-42.16	≤-41.20	53.04	≤54	PASS
	Apt1	Low	5100	AV	5150.000	-41.92	≤-41.20	53.28	≤54	PASS
	Ann	LOW	5160	Peak	4500.000	-42.83	≤-21.20	52.37	≤74	PASS
				Peak	5149.600	-30.43	≤-21.20	64.77	≤74	PASS
				Peak	5150.000	-34.63	≤-21.20	60.57	≤74	PASS
				AV	4500.000	-50.4	≤-41.20	44.80	≤54	PASS
			5180	AV	5149.600	-41.29	≤-41.20	53.91	≤54	PASS
	A = 10	Law		AV	5150.000	-41.27	≤-41.20	53.93	≤54	PASS
	Antz	LOW		Peak	4500.000	-45.96	≤-21.20	49.24	≤74	PASS
				Peak	5135.600	-31.25	≤-21.20	63.95	≤74	PASS
				Peak	5150.000	-34.55	≤-21.20	60.65	≤74	PASS
11N20SI				AV	5350.000	-50.46	≤-41.20	44.74	≤54	PASS
SO				AV	5450.160	-50.09	≤-41.20	45.11	≤54	PASS
	A == 14	Llink	5040	AV	5460.000	-50.39	≤-41.20	44.81	≤54	PASS
	Anti	High	5240	Peak	5350.000	-45.77	≤-21.20	49.43	≤74	PASS
				Peak	5405.760	-40.9	≤-21.20	54.30	≤74	PASS
				Peak	5460.000	-45.16	≤-21.20	50.04	≤74	PASS
				AV	5350.000	-50.26	≤-41.20	44.94	≤54	PASS
				AV	5390.160	-49.26	≤-41.20	45.94	≤54	PASS
	A = 10	Llink	5040	AV	5460.000	-50.21	≤-41.20	44.99	≤54	PASS
	Antz	High	5240	Peak	5350.000	-45.53	≤-21.20	49.67	≤74	PASS
				Peak	5355.840	-41.13	≤-21.20	54.07	≤74	PASS
				Peak	5460.000	-44.85	≤-21.20	50.35	≤74	PASS
	Ant1	Low	5745	Peak	5650.000	-38.55 5	≤-27.00			PASS



				Peak	5700.000	-20.91	≤10.00			PASS
				Peak	5720.000	-13.48	≤15.60			PASS
				Peak	5725.000	-12.02	≤27.00			PASS
				Peak	5650.000	-38.80 1	≤-27.00			PASS
4	Ant2	Low	5745	Peak	5700.000	-23.88	≤10.00			PASS
				Peak	5720.000	-12.02	≤15.60			PASS
				Peak	5725.000	-7.7	≤27.00			PASS
				Peak	5850.000	-15.94 6	≤15.60			PASS
	Ant1	High	5825	Peak	5855.000	-19.83	≤27.00			PASS
			Peak	5875.000	-27.7	≤15.60			PASS	
				Peak	5925.000	-42.28	≤10.00			PASS
				Peak	5850.000	-22.70 6	≤15.60			PASS
	Ant2	High	5825	Peak	5855.000	-26.2	≤27.00			PASS
				Peak	5875.000	-28.59	≤15.60			PASS
				Peak	5925.000	-45.61	≤10.00			PASS
				AV	4500.000	-50.1	≤-41.20	45.10	≤54	PASS
			5190	AV	5149.600	-41.53	≤-41.20	53.67	≤54	PASS
	A == 14	1		AV	5150.000	-41.24	≤-41.20	53.96	≤54	PASS
	Anti	LOW		Peak	4500.000	-43.61	≤-21.20	51.59	≤74	PASS
				Peak	5146.800	-33.39	≤-21.20	61.81	≤74	PASS
				Peak	5150.000	-34.84	≤-21.20	60.36	≤74	PASS
				AV	4500.000	-50.25	≤-41.20	44.95	≤54	PASS
				AV	5149.600	-42.15	≤-41.20	53.05	≤54	PASS
	A = 10	1	5400	AV	5150.000	-41.82	≤-41.20	53.38	≤54	PASS
11N40SI	Antz	LOW	5190	Peak	4500.000	-44.11	≤-21.20	51.09	≤74	PASS
SO				Peak	5145.400	-34.25	≤-21.20	60.95	≤74	PASS
				Peak	5150.000	-36.12	≤-21.20	59.08	≤74	PASS
				AV	5350.000	-50.39	≤-41.20	44.81	≤54	PASS
				AV	5350.800	-49.95	≤-41.20	45.25	≤54	PASS
	A == 14	Lliste	5000	AV	5460.000	-50.19	≤-41.20	45.01	≤54	PASS
	Anti	High	5230	Peak	5350.000	-44.72	≤-21.20	50.48	≤74	PASS
				Peak	5411.380	-42.26	≤-21.20	52.94	≤74	PASS
				Peak	5460.000	-44.11	≤-21.20	51.09	≤74	PASS
	Anto	Lliah	E020	AV	5350.000	-50.13	≤-41.20	45.07	≤54	PASS
	Antz	rign	rign 5230	AV	5354.440	-50.1	≤-41.20	45.10	≤54	PASS



				AV	5460.000	-50.52	≤-41.20	44.68	≤54	PASS
				Peak	5350.000	-45.07	≤-21.20	50.13	≤74	PASS
				Peak	5353.140	-41.67	≤-21.20	53.53	≤74	PASS
				Peak	5460.000	-46.25	≤-21.20	48.95	≤74	PASS
			5755	Peak	5650.000	-34.73 5	≤-27.00			PASS
	Ant1	Low		Peak	5700.000	-20.22	≤10.00			PASS
				Peak	5720.000	-15.66	≤15.60			PASS
				Peak	5725.000	-13.33	≤27.00			PASS
				Peak	5650.000	-33.76 4	≤-27.00			PASS
Ant2 Ant1	Ant2	Low	5755	Peak	5700.000	-19.2	≤10.00			PASS
			Peak	5720.000	-10.66	≤15.60			PASS	
				Peak	5725.000	-10.4	≤27.00			PASS
				Peak	5850.000	-24.66 2	≤15.60			PASS
	Ant1	High	5795	Peak	5855.000	-27.03	≤27.00			PASS
				Peak	5875.000	-32.31	≤15.60			PASS
				Peak	5925.000	-41.73	≤10.00			PASS
				Peak	5850.000	-23.30 1	≤15.60			PASS
	Ant2	High	5795	Peak	5855.000	-25.85	≤27.00			PASS
				Peak	5875.000	-29.63	≤15.60			PASS
				Peak	5925.000	-41.08	≤10.00			PASS
				AV	4500.000	-50.43	≤-41.20	44.77	≤54	PASS
				AV	5149.600	-42.17	≤-41.20	53.03	≤54	PASS
	A pt1	Low	E100	AV	5150.000	-41.72	≤-41.20	53.48	≤54	PASS
	Anti	LOW	5160	Peak	4500.000	-45.35	≤-21.20	49.85	≤74	PASS
				Peak	5146.100	-32.24	≤-21.20	62.96	≤74	PASS
				Peak	5150.000	-39.24	≤-21.20	55.96	≤74	PASS
11AC20S				AV	4500.000	-50.54	≤-41.20	44.66	≤54	PASS
ISO				AV	5149.600	-42.48	≤-41.20	52.72	≤54	PASS
	A ntO	Low	E100	AV	5150.000	-42.15	≤-41.20	53.05	≤54	PASS
	Antz	LOW	5180	Peak	4500.000	-45.98	≤-21.20	49.22	≤74	PASS
				Peak	5145.400	-32.12	≤-21.20	63.08	≤74	PASS
				Peak	5150.000	-41.03	≤-21.20	54.17	≤74	PASS
	Anti	Lliah	5240	AV	5350.000	-50.46	≤-41.20	44.74	≤54	PASS
	Ant'i	II High	5240	AV	5450.400	-50.2	≤-41.20	45.00	≤54	PASS



				AV	5460.000	-50.43	≤-41.20	44.77	≤54	PASS
				Peak	5350.000	-44.78	≤-21.20	50.42	≤74	PASS
				Peak	5441.280	-41.6	≤-21.20	53.60	≤74	PASS
				Peak	5460.000	-45.04	≤-21.20	50.16	≤74	PASS
				AV	5350.000	-50.56	≤-41.20	44.64	≤54	PASS
				AV	5389.680	-49.9	≤-41.20	45.30	≤54	PASS
	A = 10	المعام	5040	AV	5460.000	-50.5	≤-41.20	44.70	≤54	PASS
	Antz	High	5240	Peak	5350.000	-44.39	≤-21.20	50.81	≤74	PASS
				Peak	5430.000	-40.06	≤-21.20	55.14	≤74	PASS
				Peak	5460.000	-46.03	≤-21.20	49.17	≤74	PASS
				Peak	5650.000	-39.07 7	≤-27.00		PAS	PASS
Ant1	Low	5745	Peak	5700.000	-23.19	≤10.00			PASS	
				Peak	5720.000	-12.33	≤15.60			PASS
				Peak	5725.000	-10.52	≤27.00			PASS
,				Peak	5650.000	-39.59 9	≤-27.00			PASS
	Ant2	Low	5745	Peak	5700.000	-21.15	≤10.00			PASS
				Peak	5720.000	-12.39	≤15.60			PASS
				Peak	5725.000	-8.89	≤27.00			PASS
				Peak	5850.000	-22.71 5	≤15.60			PASS
	Ant1	High	5825	Peak	5855.000	-25.75	≤27.00			PASS
				Peak	5875.000	-30.39	≤15.60			PASS
				Peak	5925.000	-44.87	≤10.00			PASS
				Peak	5850.000	-24.67 3	≤15.60			PASS
	Ant2	High	5825	Peak	5855.000	-26.82	≤27.00			PASS
				Peak	5875.000	-32.95	≤15.60			PASS
				Peak	5925.000	-43.67	≤10.00			PASS
				AV	4500.000	-50.22	≤-41.20	44.98	≤54	PASS
				AV	5149.600	-41.6	≤-41.20	53.60	≤54	PASS
	A pt1	Low	F100	AV	5150.000	-41.36	≤-41.20	53.84	≤54	PASS
11AC40S	AULI	LOW	5190	Peak	4500.000	-46.1	≤-21.20	49.10	≤74	PASS
ISO				Peak	5149.600	-31.65	≤-21.20	63.55	≤74	PASS
				Peak	5150.000	-36.85	≤-21.20	58.35	≤74	PASS
	Ant2		5100	AV	4500.000	-50.02	≤-41.20	45.18	≤54	PASS
	Ant2	LOW	5190	AV	5149.600	-42.28	≤-41.20	52.92	≤54	PASS



				AV	5150.000	-42.11	≤-41.20	53.09	≤54	PASS
				Peak	4500.000	-44.39	≤-21.20	50.81	≤74	PASS
				Peak	5135.600	-34.8	≤-21.20	60.40	≤74	PASS
				Peak	5150.000	-35.49	≤-21.20	59.71	≤74	PASS
				AV	5350.000	-50.19	≤-41.20	45.01	≤54	PASS
				AV	5360.680	-49.93	≤-41.20	45.27	≤54	PASS
	Ant1	High	5220	AV	5460.000	-50.21	≤-41.20	44.99	≤54	PASS
	AIILI	nign	5230	Peak	5350.000	-45.4	≤-21.20	49.80	≤74	PASS
				Peak	5359.120	-41.69	≤-21.20	53.51	≤74	PASS
				Peak	5460.000	-45.13	≤-21.20	50.07	≤74	PASS
				AV	5350.000	-50.23	≤-41.20	44.97	≤54	PASS
				AV	5374.200	-50.05	≤-41.20	45.15	≤54	PASS
	Ant?	High	5230	AV	5460.000	-50.45	≤-41.20	44.75	≤54	PASS
	Antz		5250	Peak	5350.000	-43.86	≤-21.20	51.34	≤74	PASS
			Peak	5448.560	-41.12	≤-21.20	54.08	≤74	PASS	
				Peak	5460.000	-43.03	≤-21.20	52.17	≤74	PASS
			w 5755	Peak	5650.000	-36.17 5	≤-27.00			PASS
	Ant1	Low		Peak	5700.000	-21.2	≤10.00			PASS
				Peak	5720.000	-14.72	≤15.60			PASS
				Peak	5725.000	-13.38	≤27.00			PASS
				Peak	5650.000	-31.68 4	≤-27.00			PASS
	Ant2	Low	5755	Peak	5700.000	-18.39	≤10.00			PASS
				Peak	5720.000	-8.38	≤15.60			PASS
				Peak	5725.000	-9.26	≤27.00			PASS
				Peak	5850.000	-23.33 5	≤15.60			PASS
	Ant1	High	5795	Peak	5855.000	-26.43	≤27.00			PASS
				Peak	5875.000	-29.35	≤15.60			PASS
				Peak	5925.000	-41.92	≤10.00			PASS
				Peak	5850.000	-24.60 7	≤15.60			PASS
	Ant2	High	5795	Peak	5855.000	-25.23	≤27.00			PASS
				Peak	5875.000	-28.4	≤15.60			PASS
				Peak	5925.000	-41.35	≤10.00			PASS
11AC80S	A = 14	1	E040	AV	4500.000	-49.55	≤-41.20	45.65	≤54	PASS
ISO	Anti	LOW	5210	AV	5149.500	-39.45	≤-41.20	55.75	≤54	FAIL



			AV	5150.000	-39.65	≤-41.20	55.55	≤54	FAIL
			Peak	4500.000	-44.84	≤-21.20	50.36	≤74	PASS
			Peak	5148.000	-33.96	≤-21.20	61.24	≤74	PASS
			Peak	5150.000	-36.19	≤-21.20	59.01	≤74	PASS
			AV	4500.000	-59.54	≤-41.20	35.66	≤54	PASS
			AV	5149.500	-39.6	≤-41.20	55.60	≤54	FAIL
A = 10	1	5040	AV	5150.000	-39.77	≤-41.20	55.43	≤54	FAIL
Antz	LOW	5210	Peak	4500.000	-52.65	≤-21.20	42.55	≤74	PASS
			Peak	5148.000	-33.88	≤-21.20	61.32	≤74	PASS
			Peak	5150.000	-33.92	≤-21.20	61.28	≤74	PASS
			AV	5350.000	-49.59	≤-41.20	45.61	≤54	PASS
			AV	5350.240	-49.56	≤-41.20	45.64	≤54	PASS
A n+1	Lliab	5010	AV 5460.000 -50.04 ≤-41.20 45.	45.16	≤54	PASS			
Anti	nigri	5210	Peak	5350.000	-44.38	≤-21.20	50.82	≤74	PASS
			Peak	5410.160	-41.64	≤-21.20	53.56	≤74	PASS
			Peak	5460.000	-44.6	≤-21.20	50.60	≤74	PASS
			AV	5350.000	-49.86	≤-41.20	45.34	≤54	PASS
			AV	5353.600	-49.59	≤-41.20	45.61	≤54	PASS
Ant2	Lliab	5010	AV	5460.000	-50.27	≤-41.20	44.93	≤54	PASS
	High	5210	Peak	5350.000	-44.18	≤-21.20	51.02	≤74	PASS
			Peak	5362.000	-41.89	≤-21.20	53.31	≤74	PASS
			Peak	5460.000	-44.58	≤-21.20	50.62	≤74	PASS
			Peak	5650.000	-29.39 3	≤-27.00			PASS
Ant1	Low	5775	Peak	5700.000	-18.86	≤10.00			PASS
			Peak	5720.000	-14.03	≤15.60			PASS
			Peak	5725.000	-12.78	≤27.00			PASS
			Peak	5650.000	-34.23 3	≤-27.00			PASS
Ant2	Low	5775	Peak	5700.000	-30.63	≤10.00			PASS
			Peak	5720.000	-18.98	≤15.60			PASS
			Peak	5725.000	-25.47	≤27.00			PASS
			Peak	5850.000	-22.40 1	≤15.60			PASS
Ant1	High	5775	Peak	5855.000	-24.47	≤27.00			PASS
			Peak	5875.000	-27.48	≤15.60			PASS
			Peak	5925.000	-31.95	≤10.00			PASS
Ant2	High	5775	Peak	5850.000	-20.64	≤15.60			PASS



		7			
Peak	5855.000	-21.84	≤27.00	 	PASS
Peak	5875.000	-27.17	≤15.60	 	PASS
Peak	5925.000	-34.02	≤10.00	 	PASS

Note:

- 1. The Antenna Gain is compensated in the graph.
- 2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.
















































































































