



Test report No. : 4789507582-US-R1-V0
Page : 1 of 204
Issued date : Dec. 15, 2020
FCC ID : 2AWKZ-QCNFA324

RADIO TEST REPORT

Product : 2x2 802.11 A/B/G/N/AC WIFI+ Bluetooth Module

Model Name : QCNFA324

FCC ID : 2AWKZ-QCNFA324

Test Regulation : FCC 47 CFR Part 15 Subpart E (Section 15.407)

Received Date : Jun. 9, 2020

Test Date : Jun. 11, 2020 ~ Nov 12, 2020

Issued Date : Dec. 15, 2020

Applicant : ENLI INCORPORATION
4F., No. 42, Aly. 5, Ln. 12, Sec. 3, Bade Rd., Songshan
Dist., Taipei 10559, Taiwan

Issued By : Underwriters Laboratories Taiwan Co., Ltd.
Building B and Building E, No. 372-7, Sec. 4, Zhongxing
Rd., Zhudong Township, Hsinchu County, Taiwan



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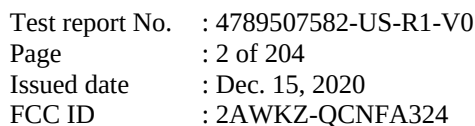
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Doc No: 17-EM-F0878 / 5.0



Original Test Report No.: 4789507582-US-R1-V0

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1. Attestation of Test Results

APPLICANT: ENLI INCORPORATION
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Taipei 10559, Taiwan

MANUFACTURER ENLI INCORPORATION
4F., No. 42, Aly. 5, Ln. 12, Sec. 3, Bade Rd., Songshan Dist.,
Taipei 10559, Taiwan

EUT DESCRIPTION: 2x2 802.11 A/B/G/N/AC WIFI+ Bluetooth Module

BRAND: ENLI

MODEL: QCNFA324

SAMPLE STAGE: Identical Prototype

DATE of TESTED: Jun. 11, 2020 ~ Nov 12, 2020

APPLICABLE STANDARDS	
STANDARD	Test Results
FCC 47 CFR PART 15 Subpart E (Section 15.407)	PASS

Underwriters Laboratories Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Underwriters Laboratories Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Underwriters Laboratories Taiwan Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Underwriters Laboratories Taiwan Co., Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Prepared By:

Sally Lu
Project Handler

Date : Dec. 15, 2020

Approved and Authorized By:

Waternil Guan Date : Dec. 15, 2020
Engineer

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2. Summary of Test Results

Summary of Test Results		
FCC Clause	Test Items	Result
15.407(e)	6dB Bandwidth	PASS
15.403(i)	26dB Bandwidth	PASS
2.1049	Occupied Bandwidth	See Note2
15.407(a)(1/2/3)	Conducted Output Power	PASS
15.407(a)(1/2/3)	Power Spectral Density	PASS
15.407(g)	Frequency Stability	PASS
15.407(b) (1/2/3/4(i/ii)/6)	Radiated Emissions and Band Edge Measurement	PASS
15.407(b)(6)	AC Power Conducted Emission	PASS
15.203	Antenna Requirement	PASS
15.407(h)	Dynamic Frequency Selection	See Note3

Note:

1. For the Radiated Band Edge and OOBE test plots were recorded in Appendix I, the Radiated Emissions test plots were recorded in Appendix II.
2. The Occupied Bandwidth was reference only.
3. The “Dynamic Frequency Selection measurement” was recorded in Report No.: 4789507582-US-R2-V0

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3. Test Methodology and Reference Procedures

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2, KDB 789033 D02 General UNII Test Procedure New Rules v02r01, KDB414788 D01 Radiated Test Site v01r01, ANSI C63.10-2013 and KDB 662911 D01 Multiple Transmitter Output v02r01.

4. Facilities and Accreditation

Test Location	Underwriters Laboratories Taiwan Co., Ltd.
Address	Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
Accreditation Certificate	Underwriters Laboratories Taiwan Co., Ltd. is accredited by TAF, Laboratory Code 3398. The full scope of accreditation can be viewed at http://accreditation.taftw.org.tw/taf/public/basic/viewApplyItems.action?unitNo=3398

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5. Measurement Uncertainty

For statement of conformity, accuracy method (Section 8.2.4 and 8.2.5 of ISO Guide 98-4) was applied as decision rule for measurement in this test report.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor $k=2$.

Test Item	Measurement Frequency Range	K	U(dB)
Conducted disturbance at mains terminals ports	0.15MHz ~ 30MHz	2	1.5
RF Conducted	9 kHz - 40GHz	2	1.0
Radiated disturbance below 30MHz	9 kHz - 30 MHz	2	1.9
Radiated disturbance below 1 GHz	30MHz ~ 1GHz	2	5.4
Radiated disturbance above 1GHz	1GHz ~ 40GHz	2	4.7

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6. Equipment under Test

6.1. Description of EUT

Product	2x2 802.11 A/B/G/N/AC WIFI+ Bluetooth Module	
Brand Name	ENLI	
Model Name	QCNFA324	
S/N	E4AAEA8A1CE1	
Operating Frequency	5180 ~ 5240 MHz, 5260 ~ 5320 MHz, 5500 ~ 5700 MHz, 5745 ~ 5825 MHz	
Modulation	256QAM, 64QAM, 16QAM, QPSK, BPSK	
Transfer Rate	802.11a: up to 54 Mbps 802.11n: up to MCS15 802.11ac: up to MCS9	
Number of Channel	5180 ~ 5240 MHz	4 for 802.11a, 802.11n (HT20), 802.11ac (VHT20)
		2 for 802.11n (HT40), 802.11 ac (VHT40)
		1 for 802.11ac (VHT80)
	5260 ~ 5320 MHz	4 for 802.11a, 802.11n (HT20), 802.11ac (VHT20)
		2 for 802.11n (HT40), 802.11 ac (VHT40)
		1 for 802.11ac (VHT80)
	5500 ~ 5700 MHz	8 for 802.11a, 802.11n (HT20), 802.11ac (VHT20)
		3 for 802.11n (HT40), 802.11 ac (VHT40)
		1 for 802.11ac (VHT80)
	5745 ~ 5825 MHz	5 for 802.11a, 802.11n (HT20), 802.11ac (VHT20)
		2 for 802.11n (HT40), 802.11 ac (VHT40)
		1 for 802.11ac (VHT80)
Maximum Output Power	5180 ~ 5240 MHz: 15.85 dBm 5260 ~ 5320 MHz: 15.91 dBm 5500 ~ 5700 MHz: 15.89 dBm 5745 ~ 5825 MHz: 15.94 dBm	
Normal Voltage	3.3Vdc	
Software Version	N/A	

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Note:

1. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

Modulation Mode	Tx,Rx Function
802.11a	1TX,1RX
802.11n (HT20)	2TX,2RX
802.11n (HT40)	2TX,2RX
802.11ac (VHT20)	2TX,2RX
802.11ac (VHT40)	2TX,2RX
802.11ac (VHT80)	2TX,2RX

* The modulation and bandwidth are similar for 802.11n mode for HT20 / HT40 and 802.11ac mode for VHT20 / VHT40, therefore investigated worst case to representative mode in test report.

2. The EUT contains following accessory devices.

Product	Brand	Model	Ant. Type	Frequency Band (MHz)	Antenna Gain(dBi)
Ant 1	ANJIE Electronics	AEDQ4S-B0003	Dipole	2400 ~ 2500	5
				5150 ~ 5250	5.1
				5250 ~ 5350	5.1
				5470 ~ 5725	5.3
				5725 ~ 5850	5.3
Ant 2	ANJIE Electronics	AJDP2J-C0012	PIFA	2400 ~ 2500	3.62
				5150 ~ 5250	5
				5250 ~ 5350	5
				5470 ~ 5725	6
				5725 ~ 5850	5.8

3. The above EUT information is declared by manufacturer and for more detailed features description, please refer the manufacturer's or user's manual.

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6.2. Channel List

FOR 5180 ~ 5240MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
36	5180 MHz	44	5220 MHz
40	5200 MHz	48	5240 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
42	5210MHz

FOR 5260 ~ 5320MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
52	5260 MHz	60	5300 MHz
56	5280 MHz	64	5320 MHz

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
54	5270 MHz	62	5310 MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
58	5290MHz

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FOR 5500 ~ 5700MHz

8 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
100	5500 MHz	116	5580 MHz
104	5520 MHz	132	5660 MHz
108	5540 MHz	136	5680 MHz
112	5560 MHz	140	5700 MHz

3 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
102	5510 MHz	134	5670 MHz
110	5550 MHz	-	-

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
106	5530MHz

FOR 5745 ~ 5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

Channel	Frequency	Channel	Frequency
149	5745MHz	161	5805MHz
153	5765MHz	165	5825MHz
157	5785MHz	-	-

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

1 channel is provided for 802.11ac (VHT80):

Channel	Frequency
155	5775MHz

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6.3. Test Condition

Test Item	Test Site No.	Environmental Condition	Input Power	Test Date	Tested by
Antenna Port Conducted Measurement	SR4	23~26°C / 63~68%RH	120Vac / 60 Hz	Jun. 11, 2020 ~ Nov 12, 2020	Mike Cai
Radiated Spurious Emission	966-2	22~26°C / 62~68%RH	120Vac / 60 Hz	Jun. 11, 2020 ~ Nov 12, 2020	Mike Cai
AC power Line Conducted Emission	SR1	23~25°C / 63~68%RH	120Vac / 60 Hz	Jun. 11, 2020 ~ Nov 12, 2020	Mike Cai

FCC Test Firm Registration Number: 498077

6.4. Description Of Available Antennas

Ant. No.	Brand Name	Model Name	Ant. Type	Frequency Band (MHz)	Ant. Gain (dBi)
1	ANJIE Electronics	AEDQ4S-B0003	Dipole	5150 ~ 5250	5.1
				5250 ~ 5350	5.1
				5470 ~ 5725	5.3
				5725 ~ 5850	5.3
2	ANJIE Electronics	AJDP2J-C0012	PIFA	5150 ~ 5250	5
				5250 ~ 5350	5
				5470 ~ 5725	6
				5725 ~ 5850	5.8

Note: The above antenna information was provided from customer and for more detailed features description, please refer the manufacturer's specification or user's manual.

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6.5. Test Mode Applicability and Tested Channel Detail

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports.
- 11a with antenna diversity function, the worst-case was be chosen via radiated emission pre-scan.
- For below 1 GHz radiated emission and AC power line conducted emission have performed all modes of operation were investigated and the worst-case emissions are reported.
- For Antenna Port Conducted Measurement, this item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- The fundamental of the EUT was investigated in three orthogonal axes X-Y/Y-Z/-X-Z, it was determined that Y-Z axis was worst-case. Therefore, all final radiated testing was performed with the EUT in Y-Z axis.
- For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.
- For AC power line conducted emissions, the pre-scan has been determined by AC power 120Vac/60Hz (worst case)

Test item	Mode	Frequency Band (MHz)	Modulation Technology	Available Channel	Test Channel	Data Rate	Antenna Type
Radiated Emissions (Above 1GHz)	802.11a	5180-5240	OFDM	36 to 48	36, 44, 48	6.0	Dipole & PIFA
	802.11n (HT20)		OFDM	36 to 48	36, 44, 48	MCS0	
	802.11n (HT40)		OFDM	38 to 46	38, 46	MCS0	
	802.11ac (VHT80)		OFDM	42	42	MCS0	
	802.11a	5260-5320	OFDM	52 to 64	52, 60, 64	6.0	
	802.11n (HT20)		OFDM	52 to 64	52, 60, 64	MCS0	
	802.11n (HT40)		OFDM	54 to 62	54, 62	MCS0	
	802.11ac (VHT80)		OFDM	58	58	MCS0	
	802.11a	5500-5720	OFDM	100 to 140	100, 116, 140	6.0	
	802.11n (HT20)		OFDM	100 to 140	100, 116, 140	MCS0	
	802.11n (HT40)		OFDM	102 to 134	102, 110, 134	MCS0	
	802.11ac (VHT80)		OFDM	106	106	MCS0	
	802.11a	5745-5825	OFDM	149 to 165	149, 157, 165	6.0	
	802.11n (HT20)		OFDM	149 to 165	149, 157, 165	MCS0	
	802.11n (HT40)		OFDM	151 to 159	151, 159	MCS0	
	802.11ac (VHT80)		OFDM	155	155	MCS0	
Radiated Emissions (Below 1GHz)	802.11n (HT20)	5500-5720	OFDM	100 to 140	38, 140	MCS0	Dipole & PIFA
AC Power Line Conducted Emission	802.11n (HT20)	5500-5720	OFDM	100 to 140	140	MCS0	PIFA (Worst Case)

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Test item	Mode	Frequency Band (MHz)	Modulation Technology	Available Channel	Test Channel	Data Rate	Antenna Type
Antenna Port Conducted Measurement	802.11a	5180-5240	OFDM	36 to 48	36, 44, 48	6.0	N/A
	802.11n (HT20)		OFDM	36 to 48	36, 44, 48	MCS0	
	802.11n (HT40)		OFDM	38 to 46	38, 46	MCS0	
	802.11ac (VHT80)		OFDM	42	42	MCS0	
	802.11a	5260-5320	OFDM	52 to 64	52, 60, 64	6.0	
	802.11n (HT20)		OFDM	52 to 64	52, 60, 64	MCS0	
	802.11n (HT40)		OFDM	54 to 62	54, 62	MCS0	
	802.11ac (VHT80)		OFDM	58	58	MCS0	
	802.11a	5500-5720	OFDM	100 to 140	100, 116, 140	6.0	
	802.11n (HT20)		OFDM	100 to 140	100, 116, 140	MCS0	
	802.11n (HT40)		OFDM	102 to 134	102, 110, 134	MCS0	
	802.11ac (VHT80)		OFDM	106	106	MCS0	
	802.11a	5745-5825	OFDM	149 to 165	149, 157, 165	6.0	
	802.11n (HT20)		OFDM	149 to 165	149, 157, 165	MCS0	
	802.11n (HT40)		OFDM	151 to 159	151, 159	MCS0	
	802.11ac (VHT80)		OFDM	155	155	MCS0	

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6.6. Duty cycle

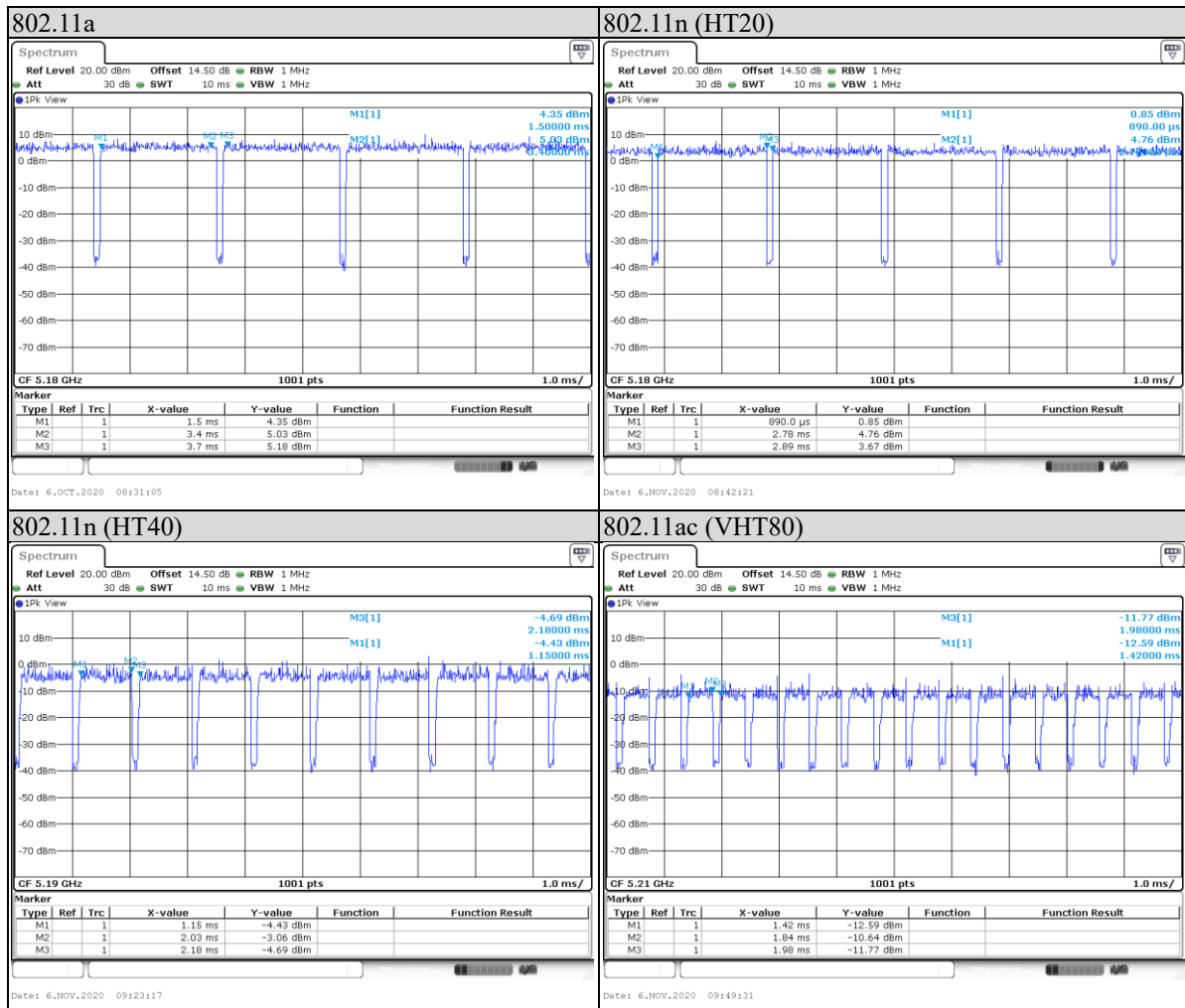
Duty cycle of test signal is < 98 %, duty factor is required.

802.11a: Duty cycle = $1.9/2.2 = 0.864$, Duty factor = $10 * \log(1/0.864) = 0.64$

802.11n (HT20): Duty cycle = $1.89/2 = 0.945$, Duty factor = $10 * \log(1/0.945) = 0.25$

802.11n (HT40): Duty cycle = $0.88/1.03 = 0.854$, Duty factor = $10 * \log(1/0.854) = 0.68$

802.11ac (VHT80): Duty cycle = $0.42/0.56 = 0.75$, Duty factor = $10 * \log(1/0.75) = 1.25$



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7. Test Equipment

Test Equipment List					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
Radiated Spurious Emission					
Spectrum Analyzer	Keysight	N9010A	MY56070827	Nov. 13, 2019 Nov. 11, 2020	1 year
EMI Test Receiver	Rohde & Schwarz	ESR7	101754	Dec. 17, 2019	1 year
Loop Antenna	ETS lindgren	6502	00213440	Dec. 19, 2019	1 year
Trilog-Broadband Antenna with 5dB Attenuator	Schwarzbeck & EMCI	VULB 9168 & N-6-05	774 & AT-N0538	Jan. 3, 2020	1 year
Horn Antenna (1-18 GHz)	Schwarzbeck	BBHA 9120 D	01690	Jan. 3, 2020	1 year
Horn Antenna (18-40 GHz)	Schwarzbeck	BBHA 9170	781	Dec. 27, 2019	1 year
Preamplifier (30-1000 MHz)	EMCI	EMC330E	980405	Feb. 4, 2020	1 year
Preamplifier (1-18 GHz)	EMCI	EMC051835BE	980406	Feb. 4, 2020	1 year
Preamplifier (18-40GHz)	EMCI	EMC184040SEE	980426	May. 8, 2019	1 year
Cables	Hanyitek	K1K50-UP0264-K1K50-2500	170214-4 & 170425-2	Jan. 8, 2020	1 year
Cables	Hanyitek	K1K50-UP0264-K1K50-2500	170214-1 & 170214-2	Jan. 8, 2020	1 year

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Test Equipment List					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
Antenna Port Conducted Measurement					
Spectrum Analyzer	Keysight	N9010A	MY56070834	Nov. 6, 2019	1 year
				Nov. 6, 2020	
Pulse Power Sensor	Anrisu	MA2411B	1531202	Dec. 23, 2019	1 year
Power Meter	Anrisu	ML2495A	1645002	Dec. 23, 2019	1 year
Temperature & Humidity Test Chamber	GIANT FORCE	GTH-150-40-CP-AR	MAA1701-010	Mar. 23, 2020	1 year
AC power Line Conducted Emission					
EMI Test Receiver	Rohde & Schwarz	ESR7	101753	Nov. 19, 2019	1 year
Two-Line V-Network	Rohde & Schwarz	ENV216	102136	Aug. 8, 2019	1 year
				Aug. 19, 2020	
Impuls-Begrenzer Pulse Limiter	Rohde & Schwarz	ESH3-Z2	102219-Qt	Aug. 6, 2019	1 year
				Aug. 12, 2020	
Cables	HARBOUR INDUSTRIES	LL142	170205-5000-1	Feb. 5, 2020	1 year

UL Software		
Description	Name	Version
Radiated measurement	EZ EMC	1.1.4.2
Conducted measurement	Keysight.TestSystem	1.0.0.0
AC power Line Conducted Emission	EZ EMC	1.1.4.2

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8. Description of Test Setup

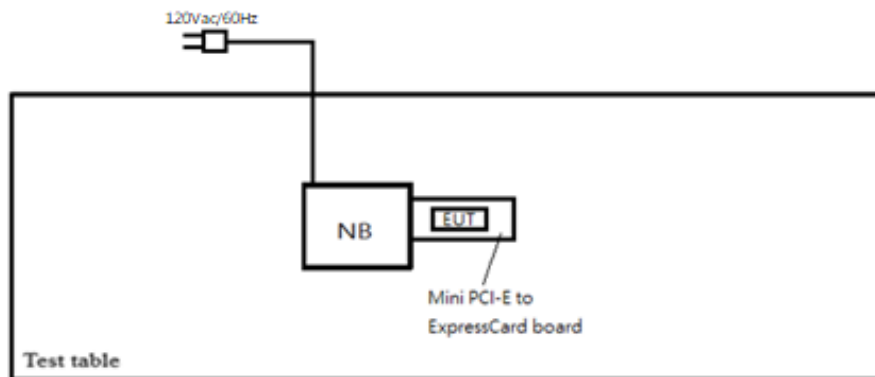
Support Equipment

Equipment	Brand Name	Model Name	S/N	Remark
Notebook	Lenovo	T430	PBE38AK	N/A
Mini PCI-E to ExpressCard board	N/A	N/A	N/A	N/A

Test Setup

Controlled using a bespoke application (QCARCT V3.0.203.0) on a test Notebook. The application was used to enable a continuous transmission mode and to select the test channels, data rates, modulation schemes and power setting as required.

Setup Diagram for Test



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9. Test Results

9.1. 6dB Bandwidth

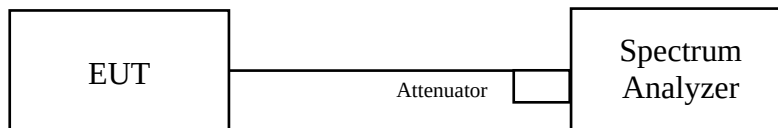
Requirements

The minimum 6 dB bandwidth shall be at least 500 kHz.

Test procedure

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

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Test Data

802.11a

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
149	5745	15.305	0.5	Pass
157	5785	15.105	0.5	Pass
165	5825	15.105	0.5	Pass

802.11n (HT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
149	5745	15.105	15.105	0.5	Pass
157	5785	15.105	15.105	0.5	Pass
165	5825	15.105	15.105	0.5	Pass

802.11n (HT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
151	5755	35.005	35.085	0.5	Pass
159	5795	35.005	35.085	0.5	Pass

802.11ac (VHT80)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)		Minimum Limit (MHz)	Pass / Fail
		Chain 0	Chain 1		
155	5775	72.408	72.567	0.5	Pass

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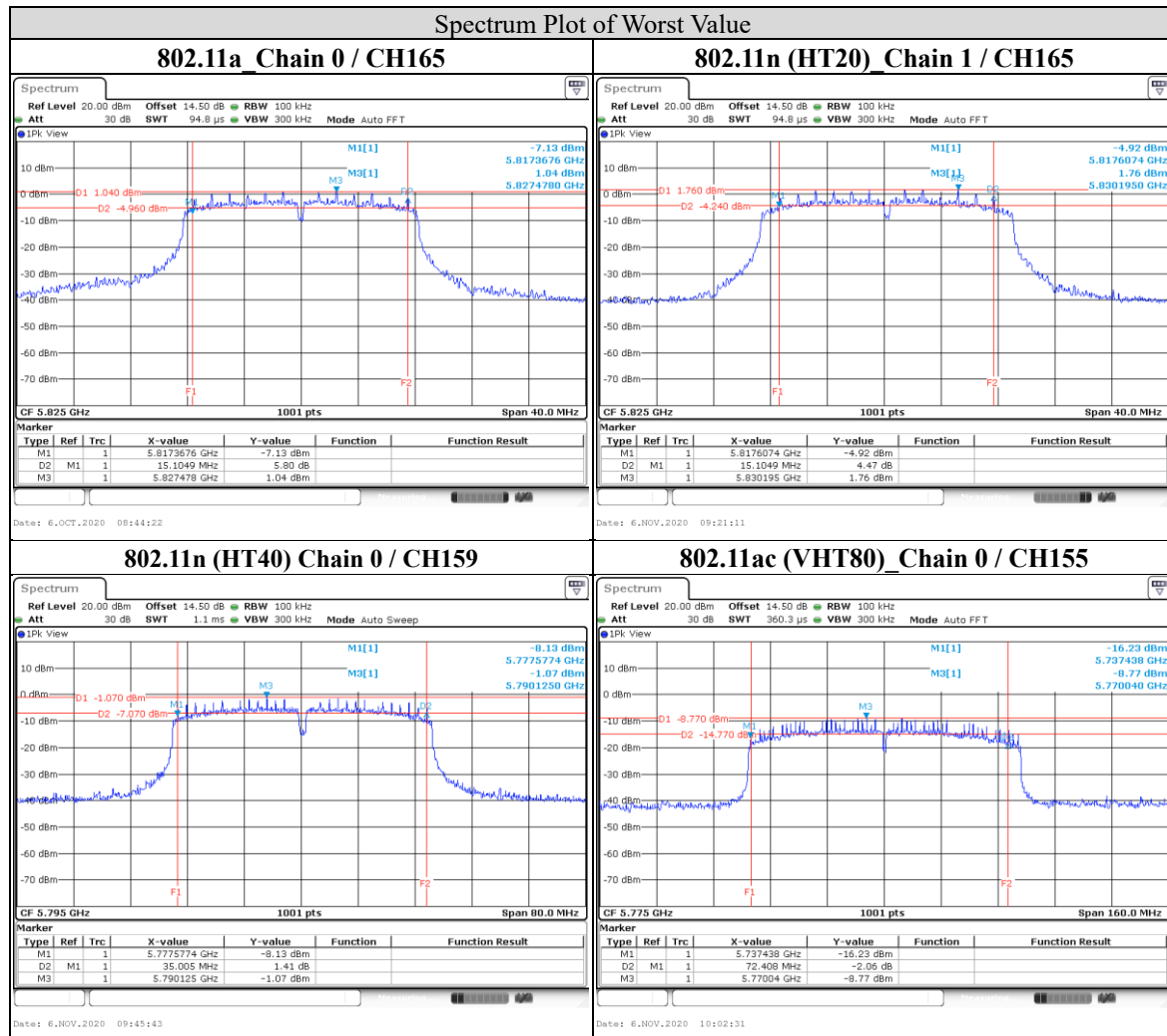
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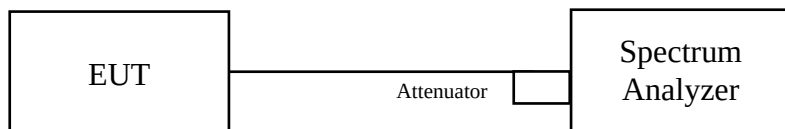


9.2. 26dB Bandwidth

Test procedure

- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

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Test Data

802.11a

CHANNEL	CHANNEL FREQUENCY (MHz)	26 dB Bandwidth (MHz)
36	5180	19.181
44	5220	19.421
48	5240	19.580
52	5260	19.780
60	5300	19.021
64	5320	19.381
100	5500	19.421
116	5580	19.221
140	5700	19.501

802.11n (HT20)

CHANNEL	CHANNEL FREQUENCY (MHz)	26 dB Bandwidth (MHz)	
		CHAIN 0	CHAIN 1
36	5180	20.300	20.020
44	5220	21.618	20.500
48	5240	20.500	20.060
52	5260	20.180	20.340
60	5300	20.260	20.100
64	5320	20.180	19.940
100	5500	20.060	20.619
116	5580	20.180	20.260
140	5700	20.699	20.180

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802.11n (HT40)

CHANNEL	CHANNEL FREQUENCY (MHz)	26 dB Bandwidth (MHz)	
		CHAIN 0	CHAIN 1
38	5190	41.638	42.518
46	5230	41.798	41.479
54	5270	41.558	41.878
62	5310	51.069	47.632
102	5510	41.798	42.198
110	5550	42.198	47.632
134	5670	48.432	53.307

802.11ac (VHT80)

CHANNEL	CHANNEL FREQUENCY (MHz)	26 dB Bandwidth (MHz)	
		CHAIN 0	CHAIN 1
42	5210	80.559	80.719
58	5290	84.236	81.199
106	5530	84.875	82.158

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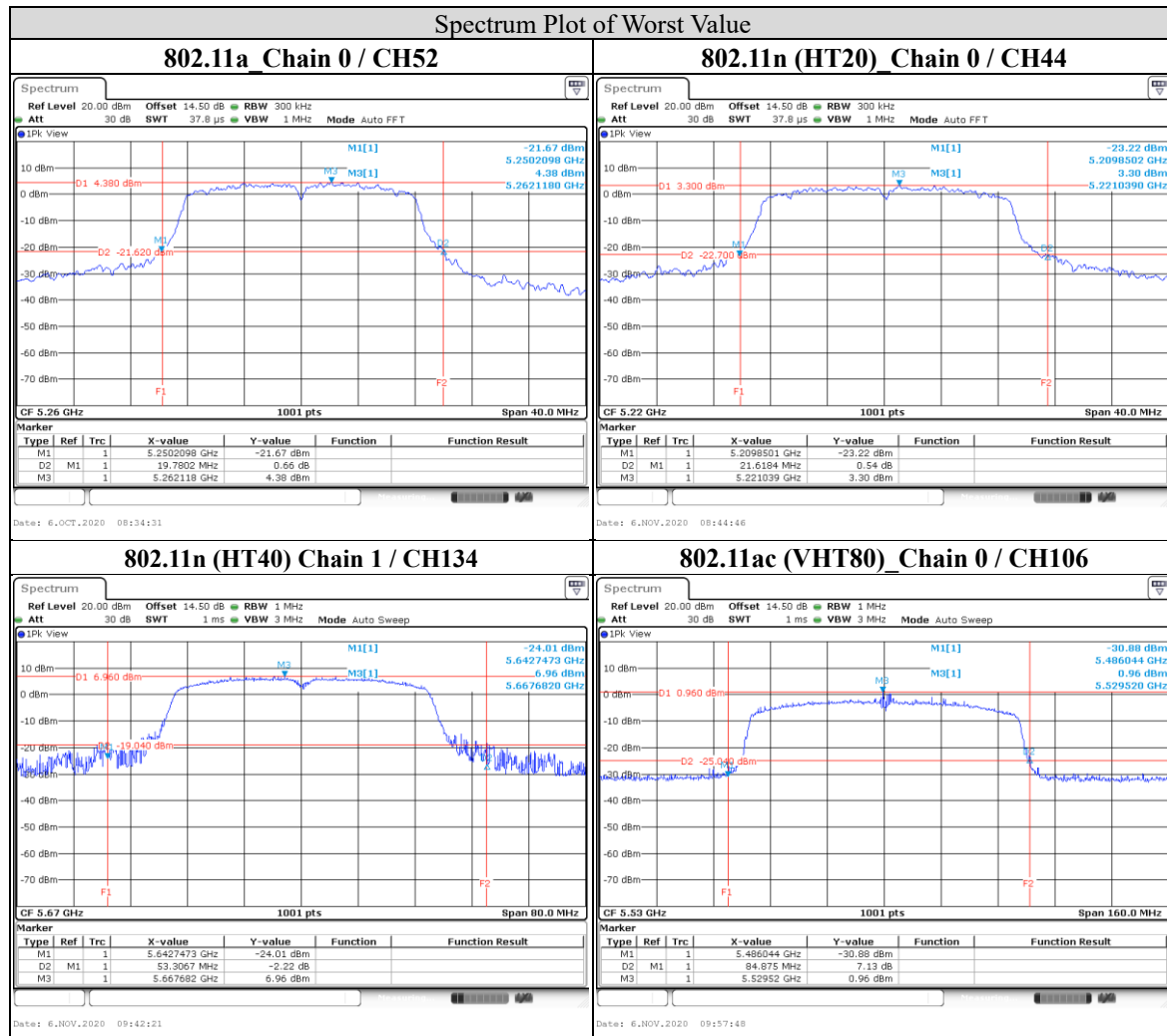
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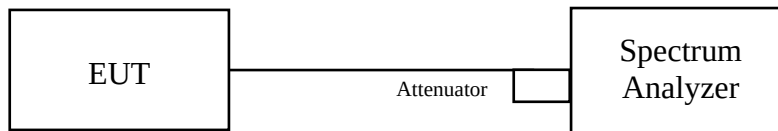


9.3. Occupied Bandwidth

Test procedure

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.
- Set RBW = 1% to 5% of the OBW
- Set VBW $\geq 3 \times$ RBW
- Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- Use the 99% power bandwidth function of the instrument (if available).
- If the instrument does not have a 99% power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.

Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

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Test Data

802.11a

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)
36	5180	16.304
44	5220	16.344
48	5240	16.344
52	5260	16.304
60	5300	16.344
64	5320	16.344
100	5500	16.344
116	5580	16.344
140	5700	16.344
149	5745	16.464
157	5785	16.344
165	5825	16.344

802.11n (HT20)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		CHAIN 0	CHAIN 1
36	5180	17.502	17.463
44	5220	17.502	17.423
48	5240	17.463	17.423
52	5260	17.463	17.423
60	5300	17.423	17.423
64	5320	17.463	17.463
100	5500	17.463	17.463
116	5580	17.423	17.423
140	5700	17.423	17.463
149	5745	17.423	17.463
157	5785	17.423	17.463
165	5825	17.463	17.423

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802.11n (HT40)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		CHAIN 0	CHAIN 1
38	5190	36.124	36.124
46	5230	36.124	36.124
54	5270	36.204	36.204
62	5310	36.364	36.284
102	5510	36.124	36.124
110	5550	36.124	36.124
134	5670	36.284	36.284
151	5755	35.804	35.804
159	5795	35.804	35.884

802.11ac (VHT80)

Channel	Channel Frequency (MHz)	Occupied Bandwidth (MHz)	
		CHAIN 0	CHAIN 1
42	5210	74.805	74.805
58	5290	74.965	74.965
106	5530	75.125	74.965
155	5775	74.965	74.965

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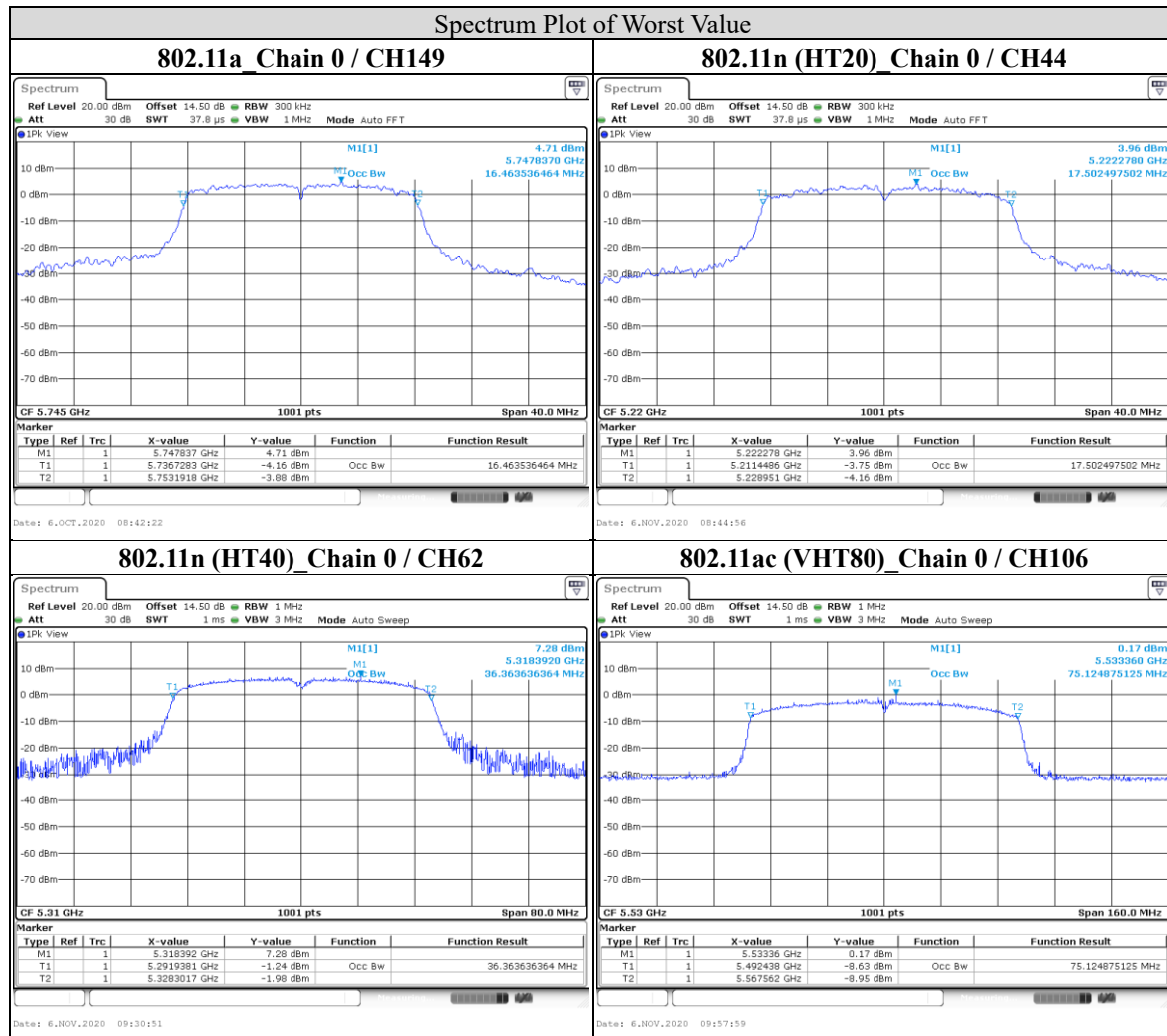
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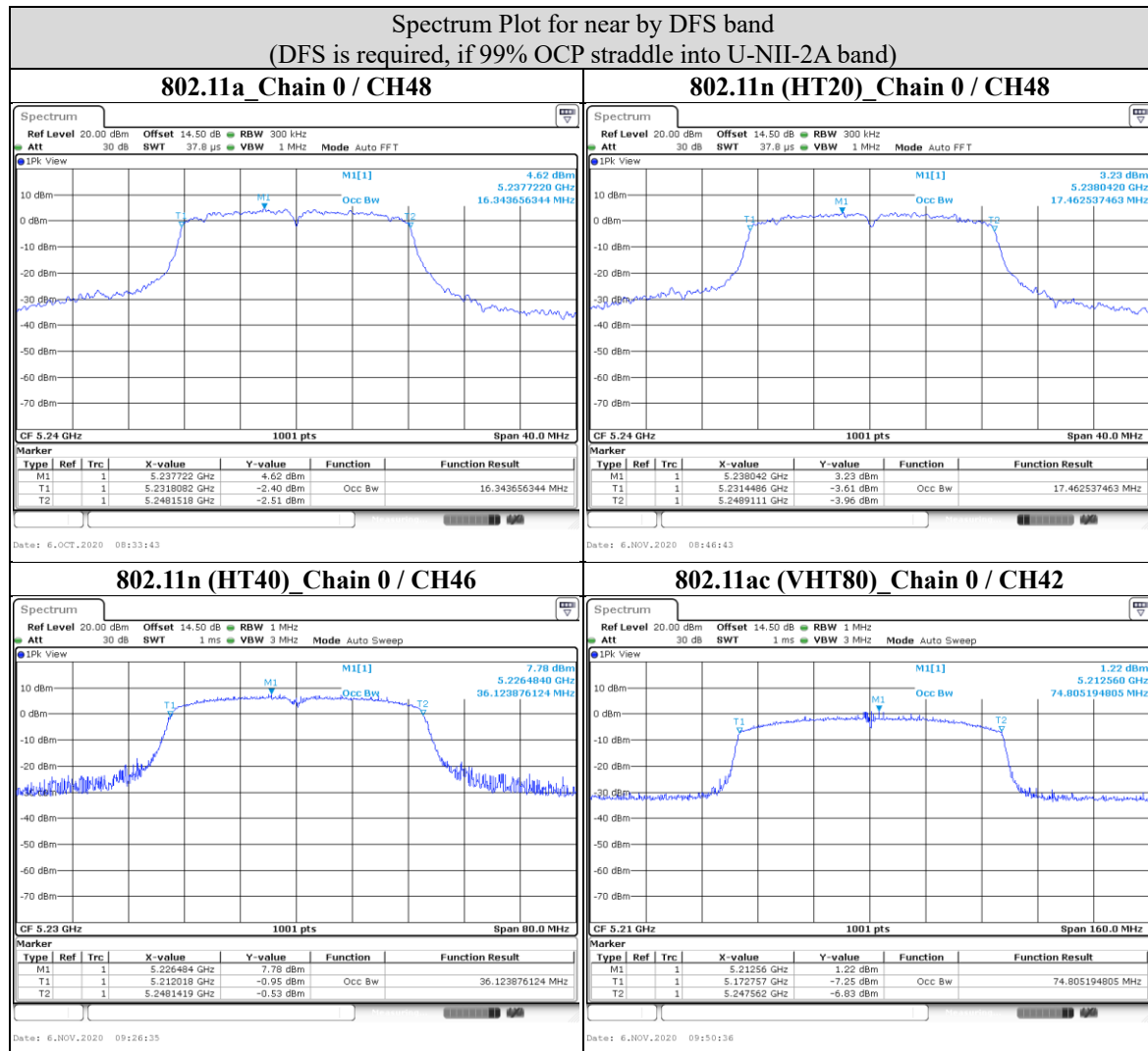
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9.4. Conducted output power

Requirements

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) Max. e.i.r.p $\leq 125\text{mW}$ (21 dBm) at any elevation angle above 30 degrees as measured from the horizon If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$
		Fixed point-to-point Access Point	1 Watt (30 dBm) If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$
		Indoor Access Point	1 Watt (30 dBm) If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$
	√	Client device	250mW (24 dBm) If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B* If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B* If $G_{TX} > 6$ dBi, then $P_{Out} = 24 - (G_{TX} - 6)$
U-NII-3	√		For Point-to-multipoint systems (P2M): 1 Watt (30 dBm). If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ For Point-to-point systems (P2P): 1 Watt (30 dBm)

Note:

- P_{Out} = maximum conducted output power in dBm,
- G_{TX} = the maximum transmitting antenna directional gain in dBi.
- Directional Gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{Gn/20})^2 / N_{ant}]$ dBi.

N_{ant} : Number of Transmit Antennas

$G1, G2, \dots, Gn$: Gain of Individual Antennas

- B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

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Test Procedure

For Average Power Measurement

Test method PM-G

For 802.11a, 802.11n (HT20), 802.11n (HT40)

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to AVERAGE. Duty factor is not added to measured value.

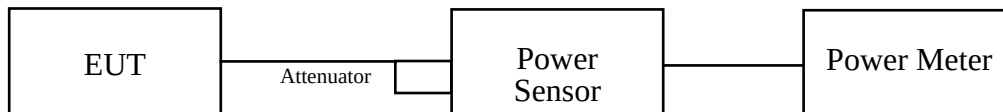
Test method SA-1

For 802.11ac (VHT80)

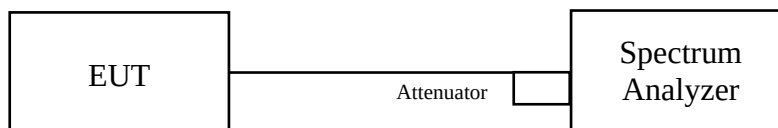
- Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- Set sweep trigger*.
- Set RBW = 1 MHz.
- Set VBW ≥ 3 MHz
- Number of points in sweep ≥ 2 Span / RBW.
- Sweep time $\leq$ (number of points in sweep) * T
- Using emission bandwidth to determine the frequency span for integration the channel bandwidth.
- Detector = RMS.
- Trace mode = max hold.
- Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

* If transmit duty cycle $< 98\%$, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run.”

Test Setup



The loss between RF output port of the EUT and the input port of the Power Meter has been taken into consideration.



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

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Test Data

802.11a

CHAN.	FREQ. (MHz)	MAXIMUM CONDUCTED POWER (mW)	MAXIMUM CONDUCTED POWER (dBm)	POWER LIMIT (dBm)	PASS/FAIL
36	5180	22.23	13.47	24	PASS
44	5220	22.18	13.46	24	PASS
48	5240	22.08	13.44	24	PASS
52	5260	22.34	13.49	23.96	PASS
60	5300	22.03	13.43	23.79	PASS
64	5320	22.28	13.48	23.87	PASS
100	5500	21.83	13.39	23.88	PASS
116	5580	22.08	13.44	23.83	PASS
140	5700	22.23	13.47	23.9	PASS
149	5745	22.34	13.49	30	PASS
157	5785	21.78	13.38	30	PASS
165	5825	22.13	13.45	30	PASS

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802.11n (HT20)

CHAN.	FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		chain 0	chain 1				
36	5180	12.89	12.66	37.90	15.79	24	PASS
44	5220	12.90	12.64	37.86	15.78	24	PASS
48	5240	12.98	12.69	38.44	15.85	24	PASS
52	5260	12.93	12.60	37.83	15.78	24	PASS
60	5300	12.97	12.53	37.72	15.77	24	PASS
64	5320	12.99	12.81	39.01	15.91	23.99	PASS
100	5500	12.88	12.87	38.77	15.89	24	PASS
116	5580	12.99	12.62	38.19	15.82	24	PASS
140	5700	12.99	12.72	38.61	15.87	24	PASS
149	5745	12.76	12.91	38.42	15.85	30	PASS
157	5785	12.77	12.83	38.11	15.81	30	PASS
165	5825	12.89	12.97	39.27	15.94	30	PASS

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802.11n (HT40)

CHAN.	FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		chain 0	chain 1				
38	5190	10.51	10.26	21.86	13.40	24	PASS
46	5230	11.65	11.84	29.90	14.76	24	PASS
54	5270	11.99	11.29	29.27	14.66	24	PASS
62	5310	11.94	11.68	30.35	14.82	24	PASS
102	5510	11.86	11.64	29.93	14.76	24	PASS
110	5550	11.58	11.75	29.35	14.68	24	PASS
134	5670	11.99	11.84	31.09	14.93	24	PASS
151	5755	11.52	11.77	29.22	14.66	30	PASS
159	5795	11.70	11.97	30.53	14.85	30	PASS

802.11ac (VHT80)

CHAN.	FREQ. (MHz)	MAXIMUM CONDUCTED POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	POWER LIMIT (dBm)	PASS / FAIL
		chain 0	chain 1				
42	5210	7.25	7.45	10.87	10.36	24	PASS
58	5290	7.22	7.38	10.74	10.31	24	PASS
106	5530	7.19	7.28	10.58	10.25	24	PASS
155	5775	7.11	7.46	10.71	10.30	30	PASS

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9.5. Power Spectral Density

Requirements

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	17dBm/ MHz If $G_{TX} > 6$ dBi, then $PSD = 17 - (G_{TX} - 6)$
		Fixed point-to-point Access Point	17dBm/ MHz If $G_{TX} > 23$ dBi, then $PSD = 17 - (G_{TX} - 23)$
		Indoor Access Point	17dBm/ MHz If $G_{TX} > 6$ dBi, then $PSD = 17 - (G_{TX} - 6)$
	√	Client device	11dBm/ MHz If $G_{TX} > 6$ dBi, then $PSD = 11 - (G_{TX} - 6)$
U-NII-2A	√		11dBm/ MHz If $G_{TX} > 6$ dBi, then $PSD = 11 - (G_{TX} - 6)$
U-NII-2C	√		11dBm/ MHz If $G_{TX} > 6$ dBi, then $PSD = 11 - (G_{TX} - 6)$
U-NII-3	√		For Point-to-multipoint systems (P2M): 30dBm/ 500kHz. If $G_{TX} > 6$ dBi, then $PSD = 30 - (G_{TX} - 6)$ For Point-to-point systems (P2P): 30dBm/ 500kHz

Note:

1. PSD = power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz
2. G_{TX} = the maximum transmitting antenna directional gain in dBi.
3. Directional Gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{Gn/20})^2 / Nant]$ dBi.

Nant: Number of Transmit Antennas

G1, G2,..., Gn: Gain of Individual Antennas

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Test procedure

For U-NII-1, U-NII-2A, U-NII-2C band:

Using method SA-2_with Duty cycle <98 %

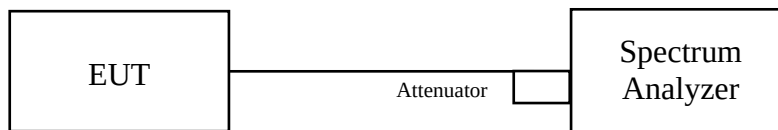
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW ≥ 3 RBW, Detector = RMS
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

For U-NII-3 band:

with Duty cycle <98 %

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 500 kHz, Set VBW ≥ 2 MHz, Detector = RMS
- Use the peak marker function to determine the maximum power level in any 500 kHz band segment within the fundamental EBW.
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

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Test Data

For U-NII-1, U-NII-2A, U-NII-2C band

802.11a

CHAN.	FREQ. (MHz)	PSD (dBm)	TOTAL PSD with duty factor (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0			
36	5180	2.36	3.00	11	PASS
44	5220	2.48	3.11	11	PASS
48	5240	2.38	3.02	11	PASS
52	5260	2.08	2.71	11	PASS
60	5300	2.23	2.86	11	PASS
64	5320	2.12	2.75	11	PASS
100	5500	2.31	2.94	11	PASS
116	5580	2.65	3.29	11	PASS
140	5700	2.54	3.18	11	PASS

Note:

1. Refer to section 6.6 for duty cycle spectrum plot.

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802.11n (HT20)

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD with duty factor (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1			
36	5180	1.54	1.56	4.81	8.89	PASS
44	5220	1.18	1.12	4.41	8.89	PASS
48	5240	1.52	1.24	4.64	8.89	PASS
52	5260	1.66	1.30	4.74	8.89	PASS
60	5300	1.54	1.43	4.74	8.89	PASS
64	5320	1.42	1.37	4.65	8.89	PASS
100	5500	1.49	1.28	4.64	7.99	PASS
116	5580	1.80	1.66	4.99	7.99	PASS
140	5700	1.38	1.32	4.61	7.99	PASS

Note:

- Method a) of power density measurement of KDB 662911 is using for calculating total power density.
Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1 band: Directional gain = 8.11 dBi > 6 dBi , so the limit shall be reduced.
For U-NII-2A band: Directional gain = 8.11 dBi > 6 dBi , so the limit shall be reduced.
For U-NII-2C band: Directional gain = 9.01 dBi > 6 dBi , so the limit shall be reduced.
- Refer to section 6.6 for duty cycle spectrum plot.

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802.11n (HT40)

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD with duty factor (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1			
38	5190	-3.69	-3.82	-0.06	8.89	PASS
46	5230	-2.11	-2.31	1.49	8.89	PASS
54	5270	-1.96	-2.20	1.62	8.89	PASS
62	5310	-2.30	-2.69	1.21	8.89	PASS
102	5510	-2.69	-2.89	0.91	7.99	PASS
110	5550	-2.69	-3.04	0.83	7.99	PASS
134	5670	-2.67	-2.61	1.06	7.99	PASS

Note:

- Method a) of power density measurement of KDB 662911 is using for calculating total power density.
Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1 band: Directional gain = 8.11 dBi > 6 dBi , so the limit shall be reduced.
For U-NII-2A band: Directional gain = 8.11 dBi > 6 dBi , so the limit shall be reduced.
For U-NII-2C band: Directional gain = 9.01 dBi > 6 dBi , so the limit shall be reduced.
- Refer to section 6.6 for duty cycle spectrum plot.

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802.11ac (VHT80)

CHAN.	FREQ. (MHz)	PSD (dBm)		TOTAL PSD with duty factor (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1			
42	5210	-10.38	-10.52	-6.19	8.89	PASS
58	5290	-10.35	-10.64	-6.23	8.89	PASS
106	5530	-10.48	-10.68	-6.32	7.99	PASS

Note:

- Method a) of power density measurement of KDB 662911 is using for calculating total power density.
Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
- For U-NII-1 band: Directional gain = 8.11 dBi > 6 dBi , so the limit shall be reduced.
For U-NII-2A band: Directional gain = 8.11 dBi > 6 dBi , so the limit shall be reduced.
For U-NII-2C band: Directional gain = 9.01 dBi > 6 dBi , so the limit shall be reduced.
- Refer to section 6.6 for duty cycle spectrum plot.

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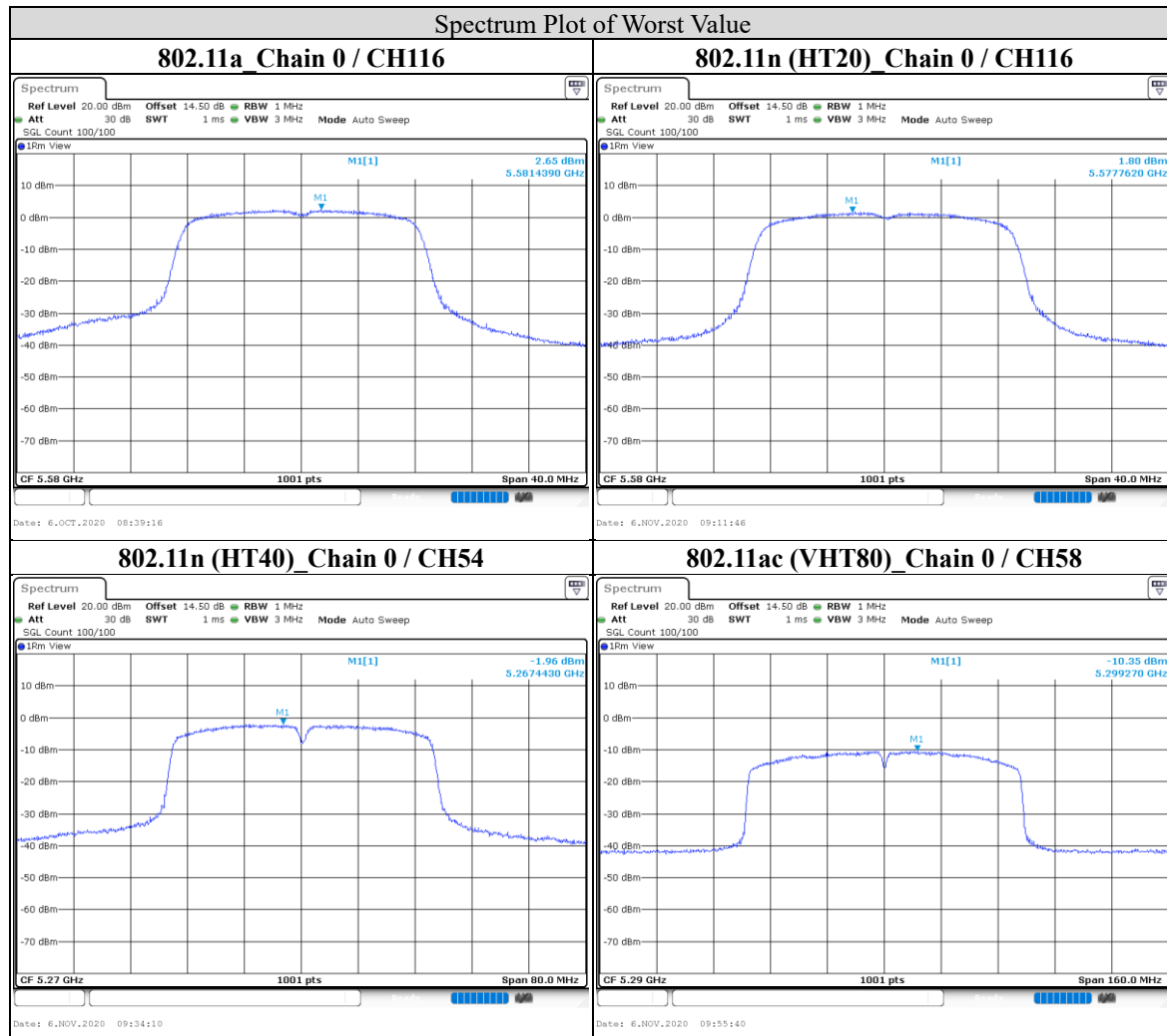
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For U-NII-3 band

802.11a

Channel	Frequency (MHz)	PSD with BWCF (dBm/500 kHz)	Total PSD with Duty Factor (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
149	5745	-0.5	0.14	30	Pass
157	5785	-0.88	-0.24	30	Pass
165	5825	-2.12	-1.48	30	Pass

Note:

1. Refer to section 6.6 for duty cycle spectrum plot.

802.11n (HT20)

TX Chain	Channel	Frequency (MHz)	PSD with BWCF (dBm/500 kHz)	10 log (N=2) dB	Total PSD with Duty Factor (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
0	149	5745	-1.09	3.01	2.17	27.19	Pass
	157	5785	-1.60	3.01	1.66	27.19	Pass
	165	5825	-1.77	3.01	1.49	27.19	Pass
1	149	5745	-1.34	3.01	1.92	27.19	Pass
	157	5785	-1.74	3.01	1.52	27.19	Pass
	165	5825	-1.85	3.01	1.41	27.19	Pass

Note:

1. Directional gain = 8.81 dBi > 6 dBi , so the limit shall be reduced.
2. Refer to section 6.6 for duty cycle spectrum plot.

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802.11n (HT40)

TX Chain	Channel	Frequency (MHz)	PSD with BWCF (dBm/500 kHz)	10 log (N=2) dB	Total PSD with Duty Factor (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
0	151	5755	-4.93	3.01	-1.24	27.19	Pass
	159	5795	-5.01	3.01	-1.32	27.19	Pass
1	151	5755	-4.95	3.01	-1.26	27.19	Pass
	159	5795	-5.10	3.01	-1.41	27.19	Pass

Note:

1. Directional gain = 8.81 dBi > 6 dBi , so the limit shall be reduced.
2. Refer to section 6.6 for duty cycle spectrum plot.

802.11ac (VHT80)

TX Chain	Channel	Frequency (MHz)	PSD with BWCF (dBm/500 kHz)	10 log (N=2) dB	Total PSD with Duty Factor (dBm/500 kHz)	Limit (dBm/500 kHz)	Pass / Fail
0	155	5775	-13.30	3.01	-9.04	27.19	Pass
1	155	5775	-12.93	3.01	-8.67	27.19	Pass

Note:

1. Directional gain = 8.81 dBi > 6 dBi , so the limit shall be reduced.
2. Refer to section 6.6 for duty cycle spectrum plot.

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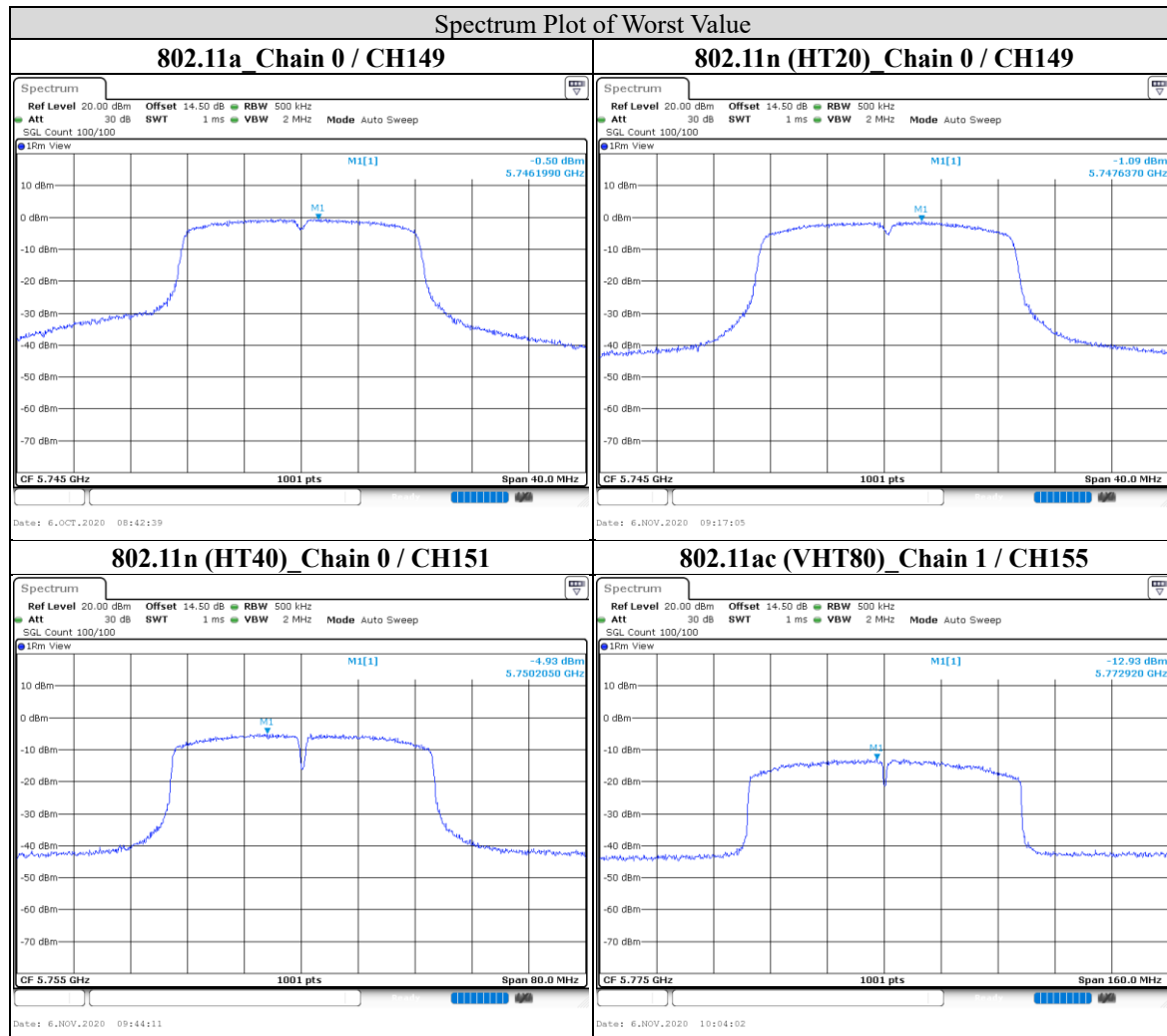
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9.6. Frequency Stability

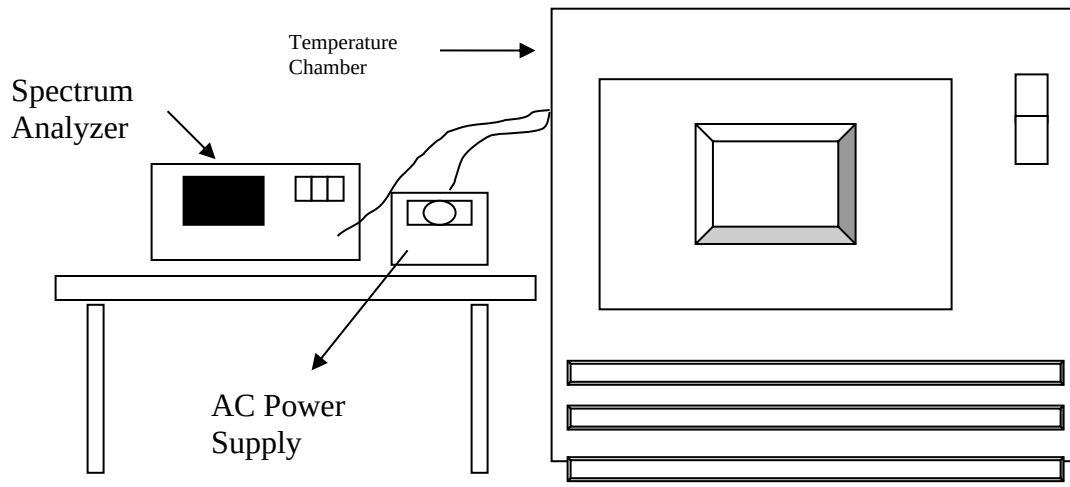
Requirements

The frequency of the carrier signal shall be maintained within band of operation.

Test procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

Test Setup



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Test Data

802.11a

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)
70	120	5180.0764	14.75	5179.9348	-12.58	5179.9978	-0.43	5180.0211	4.08
60	120	5180.0553	10.68	5180.0600	11.58	5180.0347	6.69	5180.0720	13.90
50	120	5179.9784	-4.16	5180.0303	5.86	5179.9355	-12.46	5179.9335	-12.83
40	120	5180.0573	11.07	5179.9918	-1.59	5179.9560	-8.49	5179.9456	-10.50
30	120	5180.0430	8.31	5180.0260	5.02	5179.9465	-10.33	5179.9537	-8.94
20	120	5179.9427	-11.07	5179.9657	-6.61	5179.9897	-1.98	5180.0452	8.73
10	120	5180.0478	9.23	5179.9258	-14.32	5180.0107	2.07	5180.0618	11.92
0	120	5180.0673	13.00	5180.0337	6.51	5180.0494	9.54	5179.9888	-2.16
-10	120	5180.0667	12.88	5180.0124	2.39	5180.0690	13.31	5180.0327	6.32
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)
20	102	5179.9935	-1.26	5179.9353	-12.50	5180.0040	0.77	5179.9915	-1.65
20	138	5180.0646	12.47	5179.9550	-8.69	5180.0176	3.41	5180.0529	10.22

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802.11n (HT20), 802.11n (HT40), 802.11ac (VHT80)

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)
70	120	5180.0626	12.08	5179.9783	-4.19	5180.0798	15.40	5179.9946	-1.04
60	120	5179.9610	-7.53	5179.9798	-3.91	5179.9423	-11.13	5179.9407	-11.45
50	120	5180.0484	9.35	5179.9547	-8.75	5180.0532	10.26	5179.9909	-1.76
40	120	5179.9395	-11.67	5179.9622	-7.29	5179.9770	-4.45	5180.0226	4.36
30	120	5180.0733	14.15	5179.9445	-10.72	5180.0732	14.13	5180.0718	13.86
20	120	5179.9775	-4.34	5179.9986	-0.27	5180.0533	10.30	5180.0026	0.50
10	120	5179.9441	-10.80	5180.0380	7.34	5179.9213	-15.20	5179.9545	-8.78
0	120	5179.9249	-14.49	5180.0181	3.50	5179.9292	-13.68	5180.0310	5.99
-10	120	5180.0509	9.82	5180.0408	7.88	5180.0035	0.67	5180.0257	4.97
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)
20	102	5179.9249	-14.51	5180.0652	12.58	5180.0082	1.58	5179.9707	-5.66
20	138	5180.0064	1.23	5179.9792	-4.01	5179.9697	-5.85	5179.9721	-5.39

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9.7. Radiated Spurious Emission

Requirements

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequency(MHz)	Field strength (microvolts/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

NOTE:

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 1000MHz, 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 20dB under any condition of modulation.

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Limits of unwanted emission out of the restricted bands

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3m	
		PK:74 (dBμV/m)	AV:54 (dBμV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)	PK:-27 (dBm/MHz)	PK:68.2(dBμV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	15.407(b)(4)(i)	PK:-27 (dBm/MHz) * ¹ PK:10 (dBm/MHz) * ² PK:15.6 (dBm/MHz) * ³ PK:27 (dBm/MHz) * ⁴	PK: 68.2(dBμV/m) * ¹ PK:105.2 (dBμV/m) * ² PK: 110.8(dBμV/m) * ³ PK:122.2 (dBμV/m) * ⁴
*1 beyond 75 MHz or more above of the band edge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.			

Note:

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

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Test Procedures

[For 9 kHz ~ 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 30MHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

[For above 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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 height of antenna 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- f. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

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Note:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

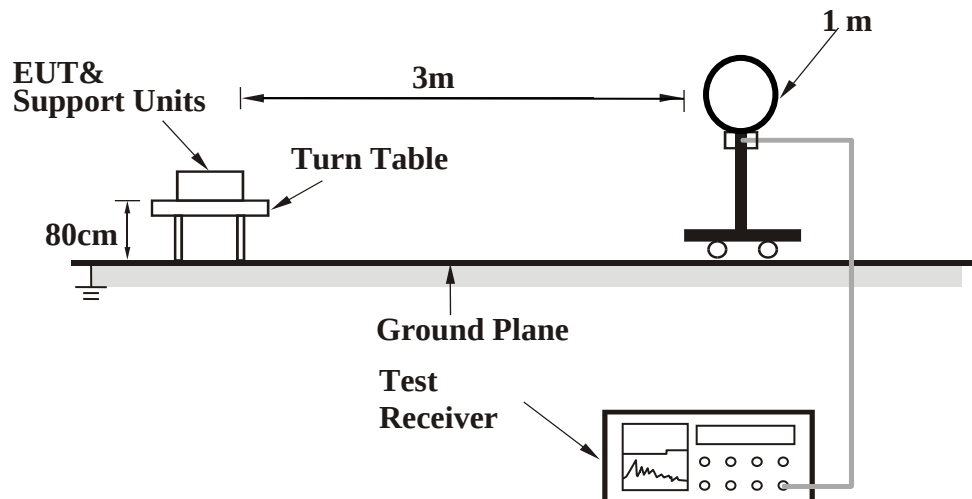
Configuration	Average	
	RBW	VBW
802.11a	1MHz	1 kHz
802.11n (HT20)		1 kHz
802.11n (HT40)		2 kHz
802.11ac (VHT80)		3 kHz

Note: Refer to section 6.6 for duty cycle.

- All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported.

Test Setup

<Frequency Range 9 kHz ~ 30 MHz>



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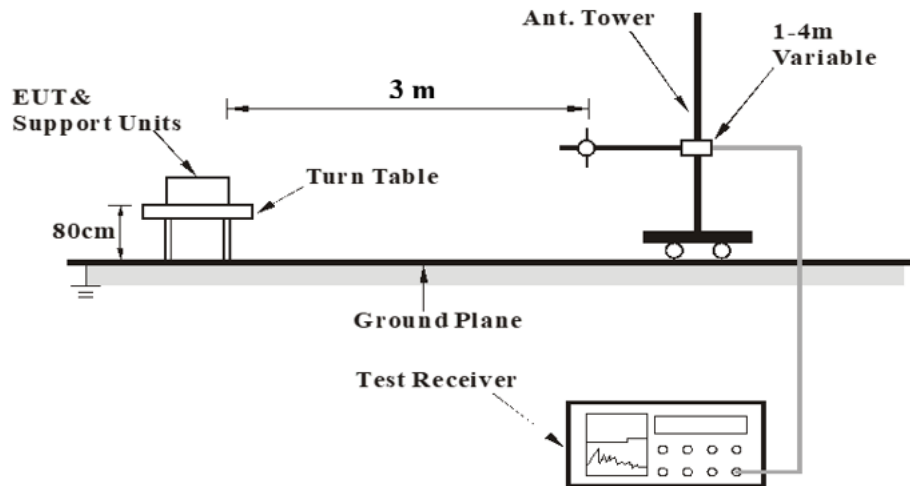
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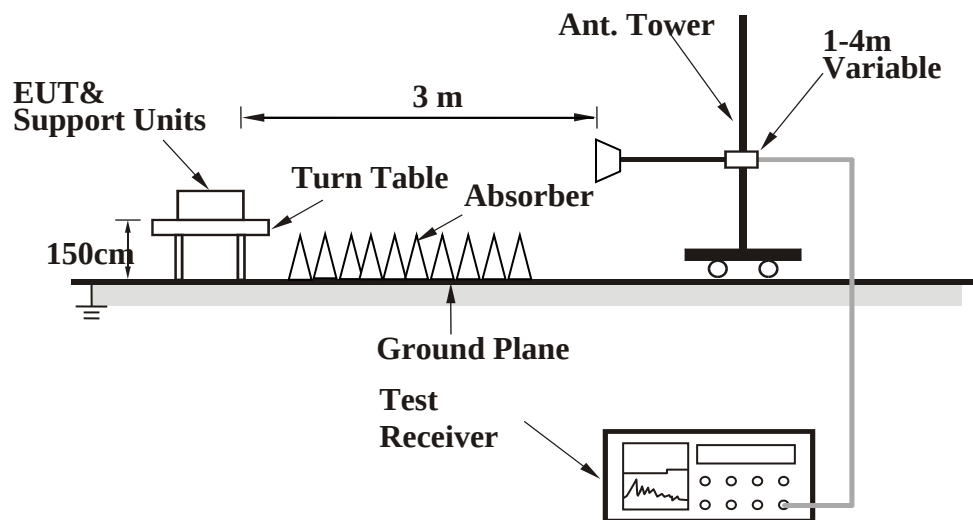
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<Frequency Range 30 MHz ~ 1 GHz >



<Frequency Range above 1 GHz>



For the actual test configuration, please refer to the Setup Configurations.



Test Data

Above 1GHz Data

Dipole Antenna

802.11a

EUT Test Condition		Measurement Detail	
Channel	Channel 36	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5086.4	42.49	14.33	56.82	74	-17.18	Peak
@	5180	72.3	14.55	86.85	-	-	Peak
-	5113.1	29.85	14.45	44.3	54	-9.7	Average
@	5180	62.89	14.55	77.44	-	-	Average
-	10360	28.56	18.92	47.48	68.2	-20.72	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5103.5	42.21	14.42	56.63	74	-17.37	Peak
@	5180	82.22	14.55	96.77	-	-	Peak
-	5087.6	29.84	14.34	44.18	54	-9.82	Average
@	5180	70.06	14.55	84.61	-	-	Average
-	10360	28.32	18.92	47.24	68.2	-20.96	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@" : Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 44	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5123.9	41.9	14.49	56.39	74	-17.61	Peak
@	5220	74.17	14.36	88.53	-	-	Peak
-	5060.3	30.08	14.19	44.27	54	-9.73	Average
@	5220	62.26	14.36	76.62	-	-	Average
-	10440	28.32	19.23	47.55	68.2	-20.65	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5108.3	41.44	14.44	55.88	74	-18.12	Peak
@	5220	78.41	14.36	92.77	-	-	Peak
-	5103.5	29.72	14.42	44.14	54	-9.86	Average
@	5220	68.46	14.36	82.82	-	-	Average
-	10440	28.38	19.23	47.61	68.2	-20.59	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 48	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5071.4	41.59	14.26	55.85	74	-18.15	Peak
@	5240	72.68	14.18	86.86	-	-	Peak
-	5063.3	29.96	14.21	44.17	54	-9.83	Average
@	5240	63.62	14.18	77.8	-	-	Average
-	10480	28.31	19.37	47.68	68.2	-20.52	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5136.5	42.87	14.53	57.4	74	-16.6	Peak
@	5240	80.03	14.18	94.21	-	-	Peak
-	5107.7	29.81	14.44	44.25	54	-9.75	Average
@	5240	68.16	14.18	82.34	-	-	Average
-	10480	29.26	19.37	48.63	68.2	-19.57	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 52	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5260	74.57	14.1	88.67	-	-	Peak
-	5415.3	39.56	14.64	54.2	74	-19.8	Peak
@	5260	63.58	14.1	77.68	-	-	Average
-	5460	27.47	14.78	42.25	54	-11.75	Average
-	10520	28.1	19.45	47.55	68.2	-20.65	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5260	78.45	14.1	92.55	-	-	Peak
-	5420.7	39.34	14.66	54	74	-20	Peak
@	5260	68.52	14.1	82.62	-	-	Average
-	5457.6	27.53	14.78	42.31	54	-11.69	Average
-	10520	28.79	19.45	48.24	68.2	-19.96	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 60	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5300	76.35	14.06	90.41	-	-	Peak
-	5458.8	39.91	14.78	54.69	74	-19.31	Peak
@	5300	66.8	14.06	80.86	-	-	Average
-	5453.1	27.55	14.77	42.32	54	-11.68	Average
-	10600	29.08	19.42	48.5	68.2	-19.7	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5300	83.43	14.06	97.49	-	-	Peak
-	5454.6	40.32	14.76	55.08	74	-18.92	Peak
@	5300	72.57	14.06	86.63	-	-	Average
-	5459.4	27.49	14.78	42.27	54	-11.73	Average
-	10600	28.23	19.42	47.65	68.2	-20.55	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 64	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5320	77.99	14.13	92.12	-	-	Peak
-	5417.1	39.82	14.64	54.46	74	-19.54	Peak
@	5320	67.24	14.13	81.37	-	-	Average
-	5453.4	27.52	14.76	42.28	54	-11.72	Average
*	10640	27.81	19.52	47.33	74	-26.67	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5320	83.35	14.13	97.48	-	-	Peak
-	5356.5	42.92	14.28	57.2	74	-16.8	Peak
@	5320	73.02	14.13	87.15	-	-	Average
-	5456.1	27.61	14.76	42.37	54	-11.63	Average
*	10640	28.29	19.52	47.81	74	-26.19	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 100	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5418.55	28.41	14.65	43.06	54	-10.94	Average
-	5418.55	38.85	14.65	53.5	74	-20.5	Peak
-	5466.85	38.83	14.8	53.63	68.2	-14.57	Peak
@	5500	65.17	14.91	80.08	-	-	Average
@	5500	75.31	14.91	90.22	-	-	Peak
*	11000	29.14	20.37	49.51	74	-24.49	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5409.1	29.27	14.62	43.89	54	-10.11	Average
-	5409.1	39.4	14.62	54.02	74	-19.98	Peak
-	5468.6	38.57	14.81	53.38	68.2	-14.82	Peak
@	5500	70.1	14.91	85.01	-	-	Average
@	5500	80.1	14.91	95.01	-	-	Peak
*	11000	29.17	20.37	49.54	74	-24.46	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
" * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 116	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5445.15	28.14	14.74	42.88	54	-11.12	Average
-	5445.15	39.05	14.74	53.79	74	-20.21	Peak
-	5469.65	38.84	14.81	53.65	68.2	-14.55	Peak
@	5580	67.48	15.04	82.52	-	-	Average
@	5580	77.34	15.04	92.38	-	-	Peak
-	5744.75	40.11	15.57	55.68	68.2	-12.52	Peak
*	11160	29.48	20.28	49.76	74	-24.24	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5440.25	28.66	14.72	43.38	54	-10.62	Average
-	5440.25	39.48	14.72	54.2	74	-19.8	Peak
-	5464.75	38.86	14.8	53.66	68.2	-14.54	Peak
@	5580	72.54	15.04	87.58	-	-	Average
@	5580	82.49	15.04	97.53	-	-	Peak
-	5731.45	39.84	15.46	55.3	68.2	-12.9	Peak
*	11160	29.32	20.28	49.6	74	-24.4	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 140	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5700	66.45	15.22	81.67	-	-	Average
@	5700	77.38	15.22	92.6	-	-	Peak
-	5729.7	40.17	15.45	55.62	68.2	-12.58	Peak
*	11400	28.03	20.5	48.53	74	-25.47	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5700	70.19	15.22	85.41	-	-	Average
@	5700	80.75	15.22	95.97	-	-	Peak
-	5748.25	40.29	15.59	55.88	68.2	-12.32	Peak
*	11400	28.43	20.5	48.93	74	-25.07	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 149	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5571	41.17	15.03	56.2	68.2	-12	Peak
-	5725	42.26	15.41	57.67	122.2	-64.53	Peak
@	5745	66.23	15.57	81.8	-	-	Average
@	5745	76.36	15.57	91.93	-	-	Peak
*	11490	29.39	20.73	50.12	74	-23.88	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5643.5	39.96	15.13	55.09	68.2	-13.11	Peak
-	5724.5	46.57	15.41	61.98	121.06	-59.08	Peak
@	5745	69.63	15.57	85.2	-	-	Average
@	5745	79.94	15.57	95.51	-	-	Peak
*	11490	28.37	20.73	49.1	74	-24.9	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 157	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5594.5	40.31	15.06	55.37	68.2	-12.83	Peak
-	5655.5	39.56	15.15	54.71	72.29	-17.58	Peak
@	5785	64.12	15.65	79.77	-	-	Average
@	5785	74.42	15.65	90.07	-	-	Peak
-	5902.5	40.82	16.33	57.15	84.81	-27.66	Peak
-	5962	40.32	16.4	56.72	68.2	-11.48	Peak
*	11570	29.48	20.51	49.99	74	-24.01	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5621.5	39.78	15.1	54.88	68.2	-13.32	Peak
-	5695.5	39.6	15.21	54.81	101.88	-47.07	Peak
@	5785	68.67	15.65	84.32	-	-	Average
@	5785	79.74	15.65	95.39	-	-	Peak
-	5889.5	41.53	16.25	57.78	94.44	-36.66	Peak
-	6012	40.26	16.37	56.63	68.2	-11.57	Peak
*	11570	30.31	20.51	50.82	74	-23.18	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 165	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5825	66.41	15.81	82.22	-	-	Average
@	5825	76.53	15.81	92.34	-	-	Peak
-	5901	39.85	16.33	56.18	85.92	-29.74	Peak
-	5949.5	39.98	16.4	56.38	68.2	-11.82	Peak
*	11650	28.32	20.28	48.6	74	-25.4	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5825	71.12	15.81	86.93	-	-	Average
@	5825	81.44	15.81	97.25	-	-	Peak
-	5899	40.67	16.31	56.98	87.4	-30.42	Peak
-	5988.5	40.54	16.37	56.91	68.2	-11.29	Peak
*	11650	28.54	20.28	48.82	74	-25.18	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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802.11n (HT20)

EUT Test Condition		Measurement Detail	
Channel	Channel 36	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5087.3	42.12	14.34	56.46	74	-17.54	Peak
@	5180	77.28	14.55	91.83	-	-	Peak
-	5102	29.95	14.41	44.36	54	-9.64	Average
@	5180	67.99	14.55	82.54	-	-	Average
-	10360	27.85	18.92	46.77	68.2	-21.43	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5123.6	41.94	14.48	56.42	74	-17.58	Peak
@	5180	83.37	14.55	97.92	-	-	Peak
-	5149.1	29.77	14.57	44.34	54	-9.66	Average
@	5180	73.6	14.55	88.15	-	-	Average
-	10360	29.97	18.92	48.89	68.2	-19.31	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 44	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5074.1	41.88	14.27	56.15	74	-17.85	Peak
@	5220	74.65	14.36	89.01	-	-	Peak
-	5132.6	30.06	14.52	44.58	54	-9.42	Average
@	5220	67.39	14.36	81.75	-	-	Average
-	10440	27.74	19.23	46.97	68.2	-21.23	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5100.2	41.24	14.41	55.65	74	-18.35	Peak
@	5220	82.75	14.36	97.11	-	-	Peak
-	5119.7	30.04	14.47	44.51	54	-9.49	Average
@	5220	74.03	14.36	88.39	-	-	Average
-	10440	29.38	19.23	48.61	68.2	-19.59	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 48	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5124.8	41.46	14.49	55.95	74	-18.05	Peak
@	5240	75.22	14.18	89.4	-	-	Peak
-	5112.8	30.26	14.45	44.71	54	-9.29	Average
@	5240	68.8	14.18	82.98	-	-	Average
-	10480	27.85	19.37	47.22	68.2	-20.98	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5132	41.34	14.51	55.85	74	-18.15	Peak
@	5240	82.26	14.18	96.44	-	-	Peak
-	5097.5	30.29	14.39	44.68	54	-9.32	Average
@	5240	75.06	14.18	89.24	-	-	Average
-	10480	29.02	19.37	48.39	68.2	-19.81	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 52	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5260	76.1	14.1	90.2	-	-	Peak
-	5454.9	39.54	14.76	54.3	74	-19.7	Peak
@	5260	68.43	14.1	82.53	-	-	Average
-	5459.1	27.97	14.78	42.75	54	-11.25	Average
-	10520	28.31	19.45	47.76	68.2	-20.44	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5260	82.04	14.1	96.14	-	-	Peak
-	5458.5	39.78	14.78	54.56	74	-19.44	Peak
@	5260	75.82	14.1	89.92	-	-	Average
-	5457.3	28.29	14.76	43.05	54	-10.95	Average
-	10520	29.39	19.45	48.84	68.2	-19.36	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 60	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5300	78.56	14.06	92.62	-	-	Peak
-	5454.3	41.55	14.76	56.31	74	-17.69	Peak
@	5300	71.61	14.06	85.67	-	-	Average
-	5459.4	28.11	14.78	42.89	54	-11.11	Average
-	10600	28.16	19.42	47.58	68.2	-20.62	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5300	84.97	14.06	99.03	-	-	Peak
-	5443.5	39.17	14.73	53.9	74	-20.1	Peak
@	5300	76.85	14.06	90.91	-	-	Average
-	5458.5	27.98	14.78	42.76	54	-11.24	Average
-	10600	30.9	19.42	50.32	68.2	-17.88	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 64	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5320	80.36	14.13	94.49	-	-	Peak
-	5426.4	39.7	14.67	54.37	74	-19.63	Peak
@	5320	72.01	14.13	86.14	-	-	Average
-	5457	28.18	14.76	42.94	54	-11.06	Average
*	10640	28.2	19.52	47.72	74	-26.28	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5320	85.4	14.13	99.53	-	-	Peak
-	5359.8	39.78	14.29	54.07	74	-19.93	Peak
@	5320	77.66	14.13	91.79	-	-	Average
-	5459.1	28.06	14.78	42.84	54	-11.16	Average
*	10640	28.31	19.52	47.83	74	-26.17	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 100	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5413.65	28.26	14.64	42.9	54	-11.1	Average
-	5413.65	39.14	14.64	53.78	74	-20.22	Peak
-	5464.75	38.93	14.8	53.73	68.2	-14.47	Peak
@	5500	69.58	14.91	84.49	-	-	Average
@	5500	79.49	14.91	94.4	-	-	Peak
*	11000	29.14	20.37	49.51	74	-24.49	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5442	29.07	14.72	43.79	54	-10.21	Average
-	5442	39.92	14.72	54.64	74	-19.36	Peak
-	5467.2	39.2	14.8	54	68.2	-14.2	Peak
@	5500	73.05	14.91	87.96	-	-	Average
@	5500	82.38	14.91	97.29	-	-	Peak
*	11000	30.76	20.37	51.13	74	-22.87	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 116	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5457.4	28.47	14.76	43.23	54	-10.77	Average
-	5457.4	38.87	14.76	53.63	74	-20.37	Peak
-	5467.2	39.07	14.8	53.87	68.2	-14.33	Peak
@	5580	69.59	15.04	84.63	-	-	Average
@	5580	79.22	15.04	94.26	-	-	Peak
-	5734.95	40.97	15.49	56.46	68.2	-11.74	Peak
*	11160	29.74	20.28	50.02	74	-23.98	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5456.7	29.07	14.76	43.83	54	-10.17	Average
-	5456.7	39.58	14.76	54.34	74	-19.66	Peak
-	5464.75	38.66	14.8	53.46	68.2	-14.74	Peak
@	5580	75.24	15.04	90.28	-	-	Average
@	5580	85.54	15.04	100.58	-	-	Peak
-	5736.35	41.06	15.5	56.56	68.2	-11.64	Peak
*	11160	30.08	20.28	50.36	74	-23.64	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 140	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5700	71.6	15.22	86.82	-	-	Average
@	5700	81.4	15.22	96.62	-	-	Peak
-	5726.2	40.03	15.42	55.45	68.2	-12.75	Peak
-	11400	27.77	20.5	48.27	74	-25.73	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5700	72.85	15.22	88.07	-	-	Average
@	5700	83.83	15.22	99.05	-	-	Peak
-	5733.2	42.37	15.48	57.85	68.2	-10.35	Peak
-	11400	28.02	20.5	48.52	74	-25.48	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 149	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5565	39.91	15.01	54.92	68.2	-13.28	Peak
-	5723	41.18	15.4	56.58	117.64	-61.06	Peak
@	5745	70.04	15.57	85.61	-	-	Average
@	5745	80.92	15.57	96.49	-	-	Peak
*	11490	27.34	20.73	48.07	74	-25.93	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5575.5	40.12	15.03	55.15	68.2	-13.05	Peak
-	5724.5	43.03	15.41	58.44	121.06	-62.62	Peak
@	5745	72.67	15.57	88.24	-	-	Average
@	5745	83.91	15.57	99.48	-	-	Peak
*	11490	27.94	20.73	48.67	74	-25.33	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 157	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5590.5	41.53	15.05	56.58	68.2	-11.62	Peak
-	5721.5	39.98	15.39	55.37	114.22	-58.85	Peak
@	5785	70.09	15.65	85.74	-	-	Average
@	5785	80.7	15.65	96.35	-	-	Peak
-	5888.5	40.28	16.24	56.52	95.18	-38.66	Peak
-	5968	40.08	16.39	56.47	68.2	-11.73	Peak
*	11570	28.29	20.51	48.8	74	-25.2	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5599	39.83	15.06	54.89	68.2	-13.31	Peak
-	5679	40.4	15.19	55.59	89.7	-34.11	Peak
@	5785	76.54	15.65	92.19	-	-	Average
@	5785	86.93	15.65	102.58	-	-	Peak
-	5919.5	39.98	16.35	56.33	72.25	-15.92	Peak
-	5940.5	40.14	16.38	56.52	68.2	-11.68	Peak
*	11570	27.5	20.51	48.01	74	-25.99	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 165	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5825	71.22	15.81	87.03	-	-	Average
@	5825	81.86	15.81	97.67	-	-	Peak
-	5857.5	40.64	16.01	56.65	110.1	-53.45	Peak
-	6012	40.36	16.37	56.73	68.2	-11.47	Peak
*	11650	27.11	20.28	47.39	74	-26.61	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5825	74.12	15.81	89.93	-	-	Average
@	5825	84.87	15.81	100.68	-	-	Peak
-	5889.5	40.18	16.25	56.43	94.44	-38.01	Peak
-	6008.5	40.67	16.36	57.03	68.2	-11.17	Peak
*	11650	30.21	20.28	50.49	74	-23.51	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 38	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5017.4	41.5	13.96	55.46	74	-18.54	Peak
@	5190	72.34	14.54	86.88	-	-	Peak
-	5113.7	30.19	14.45	44.64	54	-9.36	Average
@	5190	64.19	14.54	78.73	-	-	Average
-	10380	27.61	18.99	46.6	68.2	-21.6	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5131.4	43.77	14.51	58.28	74	-15.72	Peak
@	5190	79.28	14.54	93.82	-	-	Peak
-	5150	32.83	14.57	47.4	54	-6.6	Average
@	5190	70.86	14.54	85.4	-	-	Average
-	10380	27.52	18.99	46.51	68.2	-21.69	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 46	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5042.3	42.5	14.1	56.6	74	-17.4	Peak
@	5230	72.42	14.28	86.7	-	-	Peak
-	5102	30.14	14.41	44.55	54	-9.45	Average
@	5230	64.5	14.28	78.78	-	-	Average
-	10460	27.1	19.29	46.39	68.2	-21.81	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5146.1	42.06	14.55	56.61	74	-17.39	Peak
@	5230	78.48	14.28	92.76	-	-	Peak
-	5053.7	30.33	14.15	44.48	54	-9.52	Average
@	5230	69.51	14.28	83.79	-	-	Average
-	10460	28.54	19.29	47.83	68.2	-20.37	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 54	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5270	74.55	14.08	88.63	-	-	Peak
-	5430.3	39.87	14.68	54.55	74	-19.45	Peak
@	5270	64.78	14.08	78.86	-	-	Average
-	5453.7	27.92	14.76	42.68	54	-11.32	Average
-	10540	28.19	19.43	47.62	68.2	-20.58	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5270	80.06	14.08	94.14	-	-	Peak
-	5448	39.87	14.75	54.62	74	-19.38	Peak
@	5270	71.05	14.08	85.13	-	-	Average
-	5455.5	27.99	14.76	42.75	54	-11.25	Average
-	10540	28.41	19.43	47.84	68.2	-20.36	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 62	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5310	76.48	14.09	90.57	-	-	Peak
-	5445	39.52	14.74	54.26	74	-19.74	Peak
@	5310	66.6	14.09	80.69	-	-	Average
-	5350.2	28.96	14.23	43.19	54	-10.81	Average
*	10620	28.23	19.47	47.7	74	-26.3	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5310	81.92	14.09	96.01	-	-	Peak
-	5351.4	41.52	14.24	55.76	74	-18.24	Peak
@	5310	72.52	14.09	86.61	-	-	Average
-	5350.5	32.33	14.23	46.56	54	-7.44	Average
*	10620	27.81	19.47	47.28	74	-26.72	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 102	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5442.35	28.63	14.72	43.35	54	-10.65	Average
-	5442.35	39.43	14.72	54.15	74	-19.85	Peak
-	5466.15	39.05	14.8	53.85	68.2	-14.35	Peak
@	5510	65.65	14.93	80.58	-	-	Average
@	5510	75.28	14.93	90.21	-	-	Peak
*	11020	27.54	20.38	47.92	74	-26.08	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5411.55	28.92	14.62	43.54	54	-10.46	Average
-	5411.55	39.89	14.62	54.51	74	-19.49	Peak
-	5465.1	43.85	14.8	58.65	68.2	-9.55	Peak
@	5510	70.12	14.93	85.05	-	-	Average
@	5510	80.65	14.93	95.58	-	-	Peak
*	11020	29.7	20.38	50.08	74	-23.92	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 110	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5439.55	28.62	14.72	43.34	54	-10.66	Average
-	5439.55	39.7	14.72	54.42	74	-19.58	Peak
-	5461.25	38.44	14.78	53.22	68.2	-14.98	Peak
@	5550	66.68	14.99	81.67	-	-	Average
@	5550	76.01	14.99	91	-	-	Peak
-	5727.25	39.86	15.43	55.29	68.2	-12.91	Peak
*	11100	29.14	20.42	49.56	74	-24.44	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5433.25	29.29	14.7	43.99	54	-10.01	Average
-	5433.25	39.65	14.7	54.35	74	-19.65	Peak
-	5469.65	39.38	14.81	54.19	68.2	-14.01	Peak
@	5550	70.19	14.99	85.18	-	-	Average
@	5550	80.81	14.99	95.8	-	-	Peak
-	5739.5	41.27	15.53	56.8	68.2	-11.4	Peak
*	11100	28.91	20.42	49.33	74	-24.67	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 134	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5670	67.62	15.18	82.8	-	-	Average
@	5670	77.46	15.18	92.64	-	-	Peak
-	5736.35	39.66	15.5	55.16	68.2	-13.04	Peak
*	11340	27.38	20.34	47.72	74	-26.28	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5670	70.7	15.18	85.88	-	-	Average
@	5670	80.35	15.18	95.53	-	-	Peak
-	5743.35	40.16	15.55	55.71	68.2	-12.49	Peak
*	11340	27.34	20.34	47.68	74	-26.32	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 151	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5598	41.11	15.06	56.17	68.2	-12.03	Peak
-	5722	46.45	15.39	61.84	115.36	-53.52	Peak
@	5755	65.7	15.6	81.3	-	-	Average
@	5755	76.21	15.6	91.81	-	-	Peak
*	11510	30.1	20.72	50.82	74	-23.18	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5638	40.28	15.13	55.41	68.2	-12.79	Peak
-	5725	48.1	15.41	63.51	122.2	-58.69	Peak
@	5755	72.16	15.6	87.76	-	-	Average
@	5755	82.55	15.6	98.15	-	-	Peak
*	11510	28.18	20.72	48.9	74	-25.1	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 159	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5648	40.38	15.14	55.52	68.2	-12.68	Peak
-	5710.5	39.86	15.3	55.16	108.14	-52.98	Peak
@	5795	68.51	15.67	84.18	-	-	Average
@	5795	78.61	15.67	94.28	-	-	Peak
-	5863	40.26	16.04	56.3	108.56	-52.26	Peak
-	6015.5	40.81	16.36	57.17	68.2	-11.03	Peak
*	11590	27.74	20.44	48.18	74	-25.82	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5535	40.34	14.96	55.3	68.2	-12.9	Peak
-	5718.5	39.63	15.36	54.99	110.38	-55.39	Peak
@	5795	72.17	15.67	87.84	-	-	Average
@	5795	82.01	15.67	97.68	-	-	Peak
-	5924.5	39.75	16.36	56.11	68.57	-12.46	Peak
-	5976.5	39.71	16.38	56.09	68.2	-12.11	Peak
*	11590	27.07	20.44	47.51	74	-26.49	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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802.11ac (VHT80)

EUT Test Condition		Measurement Detail	
Channel	Channel 42	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5144.9	41.34	14.55	55.89	74	-18.11	Peak
@	5210	66.47	14.45	80.92	-	-	Peak
-	5094.8	29.96	14.38	44.34	54	-9.66	Average
@	5210	54.07	14.45	68.52	-	-	Average
-	10420	28.74	19.15	47.89	68.2	-20.31	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5140.7	42.35	14.53	56.88	74	-17.12	Peak
@	5210	71.73	14.45	86.18	-	-	Peak
-	5145.8	30.05	14.55	44.6	54	-9.4	Average
@	5210	60.07	14.45	74.52	-	-	Average
-	10420	28.43	19.15	47.58	68.2	-20.62	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 58	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5290	68.58	14.07	82.65	-	-	Peak
-	5444.4	39.35	14.73	54.08	74	-19.92	Peak
@	5290	57.99	14.07	72.06	-	-	Average
-	5459.7	27.7	14.78	42.48	54	-11.52	Average
-	10580	28.11	19.43	47.54	68.2	-20.66	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5290	73.47	14.07	87.54	-	-	Peak
-	5351.7	42.05	14.24	56.29	74	-17.71	Peak
@	5290	63.3	14.07	77.37	-	-	Average
-	5350.8	28.94	14.23	43.17	54	-10.83	Average
-	10580	28.47	19.43	47.9	68.2	-20.3	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 106	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5450.4	28.23	14.75	42.98	54	-11.02	Average
-	5450.4	39.93	14.75	54.68	74	-19.32	Peak
-	5462.65	39.61	14.79	54.4	68.2	-13.8	Peak
@	5530	58.99	14.95	73.94	-	-	Average
@	5530	68.65	14.95	83.6	-	-	Peak
*	11060	28.72	20.41	49.13	74	-24.87	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5434.65	28.89	14.7	43.59	54	-10.41	Average
-	5434.65	40.22	14.7	54.92	74	-19.08	Peak
-	5467.9	38.25	14.81	53.06	68.2	-15.14	Peak
@	5530	63.32	14.95	78.27	-	-	Average
@	5530	73.01	14.95	87.96	-	-	Peak
*	11060	28.55	20.41	48.96	74	-25.04	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 155	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5577.5	41.01	15.04	56.05	68.2	-12.15	Peak
-	5693.5	40.72	15.22	55.94	100.41	-44.47	Peak
@	5775	60.41	15.64	76.05	-	-	Average
@	5775	70.7	15.64	86.34	-	-	Peak
-	5882	40.96	16.19	57.15	100	-42.85	Peak
-	6005.5	39.92	16.37	56.29	68.2	-11.91	Peak
*	11550	28.84	20.57	49.41	74	-24.59	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5599	40.34	15.06	55.4	68.2	-12.8	Peak
-	5691.5	40.19	15.21	55.4	98.93	-43.53	Peak
@	5775	65.47	15.64	81.11	-	-	Average
@	5775	75.53	15.64	91.17	-	-	Peak
-	5918.5	39.77	16.35	56.12	72.99	-16.87	Peak
-	5962.5	39.88	16.4	56.28	68.2	-11.92	Peak
*	11550	27.85	20.57	48.42	74	-25.58	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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PIFA Antenna

802.11a

EUT Test Condition		Measurement Detail	
Channel	Channel 36	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5078	41.92	14.29	56.21	74	-17.79	Peak
@	5180	79.95	14.55	94.5	-	-	Peak
-	5093.3	30.02	14.37	44.39	54	-9.61	Average
@	5180	71.29	14.55	85.84	-	-	Average
-	10360	29.35	18.92	48.27	68.2	-19.93	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5146.4	49.71	14.55	64.26	74	-9.74	Peak
@	5180	89.48	14.55	104.03	-	-	Peak
-	5150	31.67	14.57	46.24	54	-7.76	Average
@	5180	79.4	14.55	93.95	-	-	Average
-	10360	30.21	18.92	49.13	68.2	-19.07	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 44	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5092.1	42.24	14.36	56.6	74	-17.4	Peak
@	5220	79.12	14.36	93.48	-	-	Peak
-	5117.3	30.4	14.45	44.85	54	-9.15	Average
@	5220	68.44	14.36	82.8	-	-	Average
-	10440	28.64	19.23	47.87	68.2	-20.33	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5068.4	41.85	14.23	56.08	74	-17.92	Peak
@	5220	89.37	14.36	103.73	-	-	Peak
-	5146.1	30.19	14.55	44.74	54	-9.26	Average
@	5220	78.86	14.36	93.22	-	-	Average
-	10440	29.92	19.23	49.15	68.2	-19.05	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 48	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5021.6	43.4	13.99	57.39	74	-16.61	Peak
@	5240	77.76	14.18	91.94	-	-	Peak
-	5112.5	30.72	14.45	45.17	54	-8.83	Average
@	5240	68.41	14.18	82.59	-	-	Average
-	10480	28.42	19.37	47.79	68.2	-20.41	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5099.3	41.73	14.41	56.14	74	-17.86	Peak
@	5240	87.31	14.18	101.49	-	-	Peak
-	5126.9	30.74	14.49	45.23	54	-8.77	Average
@	5240	77.64	14.18	91.82	-	-	Average
-	10480	27.44	19.37	46.81	68.2	-21.39	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 52	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5260	75.66	14.1	89.76	-	-	Peak
-	5367.9	39.37	14.36	53.73	74	-20.27	Peak
@	5260	68.54	14.1	82.64	-	-	Average
-	5459.4	27.82	14.78	42.6	54	-11.4	Average
-	10520	29	19.45	48.45	68.2	-19.75	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5260	87.28	14.1	101.38	-	-	Peak
-	5421.9	38.72	14.65	53.37	74	-20.63	Peak
@	5260	78.59	14.1	92.69	-	-	Average
-	5455.8	28.03	14.76	42.79	54	-11.21	Average
-	10520	28.62	19.45	48.07	68.2	-20.13	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 60	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5300	78.52	14.06	92.58	-	-	Peak
-	5457.3	39.18	14.76	53.94	74	-20.06	Peak
@	5300	68.32	14.06	82.38	-	-	Average
-	5459.7	28.12	14.78	42.9	54	-11.1	Average
-	10600	30.01	19.42	49.43	68.2	-18.77	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5300	88.07	14.06	102.13	-	-	Peak
-	5441.1	39.9	14.72	54.62	74	-19.38	Peak
@	5300	77.86	14.06	91.92	-	-	Average
-	5451.3	28.27	14.76	43.03	54	-10.97	Average
-	10600	30.27	19.42	49.69	68.2	-18.51	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 64	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5320	78.03	14.13	92.16	-	-	Peak
-	5415.9	39.52	14.64	54.16	74	-19.84	Peak
@	5320	68.61	14.13	82.74	-	-	Average
-	5454.9	28.69	14.76	43.45	54	-10.55	Average
*	10640	29.68	19.52	49.2	74	-24.8	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5320	88.38	14.13	102.51	-	-	Peak
-	5350.5	47.07	14.23	61.3	74	-12.7	Peak
@	5320	77.69	14.13	91.82	-	-	Average
-	5459.1	28.72	14.78	43.5	54	-10.5	Average
*	10640	29.52	19.52	49.04	74	-24.96	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 100	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5456.7	28.63	14.76	43.39	54	-10.61	Average
-	5456.7	39.75	14.76	54.51	74	-19.49	Peak
-	5465.1	39.89	14.8	54.69	68.2	-13.51	Peak
@	5500	63.78	14.91	78.69	-	-	Average
@	5500	74.22	14.91	89.13	-	-	Peak
*	11000	29.97	20.37	50.34	74	-23.66	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5449.35	29.1	14.75	43.85	54	-10.15	Average
-	5449.35	39.91	14.75	54.66	74	-19.34	Peak
-	5470	38.95	14.81	53.76	68.2	-14.44	Peak
@	5500	74.12	14.91	89.03	-	-	Average
@	5500	84.71	14.91	99.62	-	-	Peak
*	11000	28.94	20.37	49.31	74	-24.69	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 116	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5440.95	28.23	14.72	42.95	54	-11.05	Average
-	5440.95	39.78	14.72	54.5	74	-19.5	Peak
-	5464.75	40.03	14.8	54.83	68.2	-13.37	Peak
@	5580	63.97	15.04	79.01	-	-	Average
@	5580	74.03	15.04	89.07	-	-	Peak
-	5727.25	40.4	15.43	55.83	68.2	-12.37	Peak
*	11160	29.61	20.28	49.89	74	-24.11	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5456	29.11	14.76	43.87	54	-10.13	Average
-	5456	40.17	14.76	54.93	74	-19.07	Peak
-	5460.9	39.26	14.78	54.04	68.2	-14.16	Peak
@	5580	73.94	15.04	88.98	-	-	Average
@	5580	84.96	15.04	100	-	-	Peak
-	5748.95	40.37	15.59	55.96	68.2	-12.24	Peak
*	11160	28.32	20.28	48.6	74	-25.4	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 140	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5700	63.54	15.22	78.76	-	-	Average
@	5700	74.2	15.22	89.42	-	-	Peak
-	5733.55	40.53	15.48	56.01	68.2	-12.19	Peak
*	11400	28.42	20.5	48.92	74	-25.08	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5700	72.56	15.22	87.78	-	-	Average
@	5700	83.7	15.22	98.92	-	-	Peak
-	5745.1	41.66	15.57	57.23	68.2	-10.97	Peak
*	11400	28.59	20.5	49.09	74	-24.91	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 149	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5595.5	40.72	15.06	55.78	68.2	-12.42	Peak
-	5686	41.03	15.2	56.23	94.87	-38.64	Peak
@	5745	63.1	15.57	78.67	-	-	Average
@	5745	73.04	15.57	88.61	-	-	Peak
*	11490	29.35	20.73	50.08	74	-23.92	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5569	40.34	15.02	55.36	68.2	-12.84	Peak
-	5724.5	54.29	15.41	69.7	121.06	-51.36	Peak
@	5745	73.4	15.57	88.97	-	-	Average
@	5745	84.79	15.57	100.36	-	-	Peak
*	11490	29.47	20.73	50.2	74	-23.8	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 157	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5594.5	40.73	15.06	55.79	68.2	-12.41	Peak
-	5665	40.41	15.17	55.58	79.33	-23.75	Peak
@	5785	62.87	15.65	78.52	-	-	Average
@	5785	73.8	15.65	89.45	-	-	Peak
-	5917.5	41.75	16.34	58.09	73.73	-15.64	Peak
-	5986	40.12	16.38	56.5	68.2	-11.7	Peak
*	11570	28.87	20.51	49.38	74	-24.62	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5632	40.51	15.12	55.63	68.2	-12.57	Peak
-	5721.5	40.2	15.39	55.59	114.22	-58.63	Peak
@	5785	73.16	15.65	88.81	-	-	Average
@	5785	84.12	15.65	99.77	-	-	Peak
-	5887.5	42.28	16.23	58.51	95.92	-37.41	Peak
-	5961.5	40.63	16.4	57.03	68.2	-11.17	Peak
*	11570	30.2	20.51	50.71	74	-23.29	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 165	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5825	62.74	15.81	78.55	-	-	Average
@	5825	73.76	15.81	89.57	-	-	Peak
-	5910.5	41	16.34	57.34	78.9	-21.56	Peak
-	5956	41.02	16.4	57.42	68.2	-10.78	Peak
*	11650	29.25	20.28	49.53	74	-24.47	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5825	71.68	15.81	87.49	-	-	Average
@	5825	82.18	15.81	97.99	-	-	Peak
-	5855	43.25	15.99	59.24	110.8	-51.56	Peak
-	5936	41.48	16.38	57.86	68.2	-10.34	Peak
*	11650	30.15	20.28	50.43	74	-23.57	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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802.11n (HT20)

EUT Test Condition		Measurement Detail	
Channel	Channel 36	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5101.7	41.93	14.41	56.34	74	-17.66	Peak
@	5180	80.13	14.55	94.68	-	-	Peak
-	5150	30.31	14.57	44.88	54	-9.12	Average
@	5180	74.93	14.55	89.48	-	-	Average
-	10360	31	18.92	49.92	68.2	-18.28	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5150	45.85	14.57	60.42	74	-13.58	Peak
@	5180	92.87	14.55	107.42	-	-	Peak
-	5149.7	35.84	14.57	50.41	54	-3.59	Average
@	5180	83.24	14.55	97.79	-	-	Average
-	10360	33.51	18.92	52.43	68.2	-15.77	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 44	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5053.7	42.26	14.15	56.41	74	-17.59	Peak
@	5220	83.71	14.36	98.07	-	-	Peak
-	5099.6	30.13	14.41	44.54	54	-9.46	Average
@	5220	73.27	14.36	87.63	-	-	Average
-	10440	30.55	19.23	49.78	68.2	-18.42	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5121.2	42.14	14.47	56.61	74	-17.39	Peak
@	5220	91.77	14.36	106.13	-	-	Peak
-	5118.5	30.09	14.47	44.56	54	-9.44	Average
@	5220	82.07	14.36	96.43	-	-	Average
-	10440	34.26	19.23	53.49	68.2	-14.71	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "#": The radiated frequency is out of the restricted band.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 48	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5024.6	41.89	14	55.89	74	-18.11	Peak
@	5240	83.64	14.18	97.82	-	-	Peak
-	5117.9	30.19	14.47	44.66	54	-9.34	Average
@	5240	72.54	14.18	86.72	-	-	Average
-	10440	27.67	19.23	46.9	68.2	-21.3	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5111	42.58	14.43	57.01	74	-16.99	Peak
@	5240	91.59	14.18	105.77	-	-	Peak
-	5113.4	30.18	14.45	44.63	54	-9.37	Average
@	5240	81.93	14.18	96.11	-	-	Average
-	10440	32.55	19.23	51.78	68.2	-16.42	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 52	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5260	82.15	14.1	96.25	-	-	Peak
-	5410.5	39.55	14.62	54.17	74	-19.83	Peak
@	5260	69.96	14.1	84.06	-	-	Average
-	5456.4	27.81	14.76	42.57	54	-11.43	Average
-	10520	31.47	19.45	50.92	68.2	-17.28	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5260	92.11	14.1	106.21	-	-	Peak
-	5433	39.68	14.7	54.38	74	-19.62	Peak
@	5260	81.97	14.1	96.07	-	-	Average
-	5454.9	27.79	14.76	42.55	54	-11.45	Average
-	10520	33.77	19.45	53.22	68.2	-14.98	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 60	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5300	83.32	14.06	97.38	-	-	Peak
-	5459.1	39.73	14.78	54.51	74	-19.49	Peak
@	5300	71.37	14.06	85.43	-	-	Average
-	5447.1	27.88	14.74	42.62	54	-11.38	Average
-	10600	31.64	19.42	51.06	68.2	-17.14	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5300	91.29	14.06	105.35	-	-	Peak
-	5368.8	40.12	14.36	54.48	74	-19.52	Peak
@	5300	81.29	14.06	95.35	-	-	Average
-	5454	27.83	14.76	42.59	54	-11.41	Average
-	10600	35.51	19.42	54.93	68.2	-13.27	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 64	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5320	81.26	14.13	95.39	-	-	Peak
-	5445.3	39.57	14.74	54.31	74	-19.69	Peak
@	5320	72.23	14.13	86.36	-	-	Average
-	5454.3	27.82	14.76	42.58	54	-11.42	Average
*	10640	33.17	19.52	52.69	74	-21.31	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5320	91.28	14.13	105.41	-	-	Peak
-	5355.9	46.8	14.28	61.08	74	-12.92	Peak
@	5320	81.42	14.13	95.55	-	-	Average
-	5350.2	28.49	14.23	42.72	54	-11.28	Average
*	10640	30.17	19.52	49.69	74	-24.31	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 100	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5431.85	28.85	14.69	43.54	54	-10.46	Average
-	5431.85	39.1	14.69	53.79	74	-20.21	Peak
-	5469.65	39.05	14.81	53.86	68.2	-14.34	Peak
@	5500	68.55	14.91	83.46	-	-	Average
@	5500	78.58	14.91	93.49	-	-	Peak
*	11000	29.05	20.37	49.42	74	-24.58	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5440.95	29.27	14.72	43.99	54	-10.01	Average
-	5440.95	39.64	14.72	54.36	74	-19.64	Peak
-	5466.15	46.1	14.8	60.9	68.2	-7.3	Peak
@	5500	78.45	14.91	93.36	-	-	Average
@	5500	88.93	14.91	103.84	-	-	Peak
*	11000	29.87	20.37	50.24	74	-23.76	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 116	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5449.7	28.1	14.75	42.85	54	-11.15	Average
-	5449.7	40.07	14.75	54.82	74	-19.18	Peak
-	5466.15	39.72	14.8	54.52	68.2	-13.68	Peak
@	5580	67.58	15.04	82.62	-	-	Average
@	5580	77.82	15.04	92.86	-	-	Peak
-	5733.2	40.05	15.48	55.53	68.2	-12.67	Peak
*	11160	28.88	20.28	49.16	74	-24.84	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5442.7	29.2	14.73	43.93	54	-10.07	Average
-	5442.7	39.42	14.73	54.15	74	-19.85	Peak
-	5466.85	39.36	14.8	54.16	68.2	-14.04	Peak
@	5580	78.89	15.04	93.93	-	-	Average
@	5580	89.13	15.04	104.17	-	-	Peak
-	5748.95	39.74	15.59	55.33	68.2	-12.87	Peak
*	11160	30.16	20.28	50.44	74	-23.56	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 140	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5700	67.24	15.22	82.46	-	-	Average
@	5700	77.2	15.22	92.42	-	-	Peak
-	5748.6	39.44	15.59	55.03	68.2	-13.17	Peak
*	11400	28.34	20.5	48.84	74	-25.16	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5700	78.94	15.22	94.16	-	-	Average
@	5700	89.07	15.22	104.29	-	-	Peak
-	5725.5	49.49	15.41	64.9	68.2	-3.3	Peak
*	11400	28.97	20.5	49.47	74	-24.53	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 149	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5593	40.49	15.05	55.54	68.2	-12.66	Peak
-	5666.5	40.1	15.17	55.27	80.45	-25.18	Peak
@	5745	67.86	15.57	83.43	-	-	Average
@	5745	78.78	15.57	94.35	-	-	Peak
*	11490	31.59	20.73	52.32	74	-21.68	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5575.5	40.47	15.03	55.5	68.2	-12.7	Peak
-	5725	50.41	15.41	65.82	122.2	-56.38	Peak
@	5745	80.1	15.57	95.67	-	-	Average
@	5745	90.09	15.57	105.66	-	-	Peak
*	11490	31.97	20.73	52.7	74	-21.3	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 157	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5562	41.89	15.01	56.9	68.2	-11.3	Peak
-	5695	40.33	15.21	55.54	101.51	-45.97	Peak
@	5785	67.45	15.65	83.1	-	-	Average
@	5785	77.99	15.65	93.64	-	-	Peak
-	5882	40.71	16.19	56.9	100	-43.1	Peak
-	5990.5	40.74	16.37	57.11	68.2	-11.09	Peak
*	11570	30.92	20.51	51.43	74	-22.57	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5598	40.55	15.06	55.61	68.2	-12.59	Peak
-	5654	41.36	15.15	56.51	71.17	-14.66	Peak
@	5785	78.94	15.65	94.59	-	-	Average
@	5785	89.16	15.65	104.81	-	-	Peak
-	5883	41.46	16.2	57.66	99.26	-41.6	Peak
-	5994	41.79	16.37	58.16	68.2	-10.04	Peak
*	11570	32.04	20.51	52.55	74	-21.45	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 165	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5825	69.41	15.81	85.22	-	-	Average
@	5825	79.34	15.81	95.15	-	-	Peak
-	5903.5	40.68	16.33	57.01	84.07	-27.06	Peak
-	5936.5	41.43	16.38	57.81	68.2	-10.39	Peak
*	11650	31.44	20.28	51.72	74	-22.28	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5825	77.68	15.81	93.49	-	-	Average
@	5825	87.98	15.81	103.79	-	-	Peak
-	5858.5	48.08	16.02	64.1	109.82	-45.72	Peak
-	6003.5	41.31	16.37	57.68	68.2	-10.52	Peak
-	11650	25.39	20.28	45.67	54	-8.33	Average
-	11650	34.73	20.28	55.01	74	-18.99	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 38	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5105.6	42.02	14.43	56.45	74	-17.55	Peak
@	5190	74.99	14.54	89.53	-	-	Peak
-	5149.7	31.54	14.57	46.11	54	-7.89	Average
@	5190	69.59	14.54	84.13	-	-	Average
-	10380	29.14	18.99	48.13	68.2	-20.07	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5149.4	53.55	14.57	68.12	74	-5.88	Peak
@	5190	88.7	14.54	103.24	-	-	Peak
-	5149.7	37.97	14.57	52.54	54	-1.46	Peak
@	5190	76.96	14.54	91.5	-	-	Peak
-	10380	29.23	18.99	48.22	68.2	-19.98	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 46	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5032.7	42.12	14.04	56.16	74	-17.84	Peak
@	5230	77.26	14.28	91.54	-	-	Peak
-	5120.3	29.85	14.47	44.32	54	-9.68	Average
@	5230	66.98	14.28	81.26	-	-	Average
-	10460	28.95	19.29	48.24	68.2	-19.96	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5108	41.47	14.44	55.91	74	-18.09	Peak
@	5230	85.61	14.28	99.89	-	-	Peak
-	5144.3	29.74	14.55	44.29	54	-9.71	Average
@	5230	78.97	14.28	93.25	-	-	Average
-	10460	29.51	19.29	48.8	68.2	-19.4	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 54	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5270	75.69	14.08	89.77	-	-	Peak
-	5440.2	40.22	14.72	54.94	74	-19.06	Peak
@	5270	65.39	14.08	79.47	-	-	Average
-	5455.8	27.88	14.76	42.64	54	-11.36	Average
-	10540	29.5	19.43	48.93	68.2	-19.27	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5270	87.77	14.08	101.85	-	-	Peak
-	5367.6	40.44	14.36	54.8	74	-19.2	Peak
@	5270	78.17	14.08	92.25	-	-	Average
-	5457.9	27.96	14.78	42.74	54	-11.26	Average
-	10540	30.22	19.43	49.65	68.2	-18.55	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 62	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5310	75.71	14.09	89.8	-	-	Peak
-	5442.6	39.43	14.73	54.16	74	-19.84	Peak
@	5310	64.84	14.09	78.93	-	-	Average
-	5458.8	28.02	14.78	42.8	54	-11.2	Average
*	10620	29.21	19.47	48.68	74	-25.32	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5310	87.94	14.09	102.03	-	-	Peak
-	5350.2	45.15	14.23	59.38	74	-14.62	Peak
@	5310	77.17	14.09	91.26	-	-	Average
-	5350.5	34.25	14.23	48.48	54	-5.52	Average
*	10620	33.02	19.47	52.49	74	-21.51	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 102	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5408.75	29.02	14.62	43.64	54	-10.36	Average
-	5408.75	39.82	14.62	54.44	74	-19.56	Peak
-	5467.9	39.19	14.81	54	68.2	-14.2	Peak
@	5510	62.03	14.93	76.96	-	-	Average
@	5510	71.59	14.93	86.52	-	-	Peak
*	11020	28.31	20.38	48.69	74	-25.31	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5435.35	30.11	14.7	44.81	54	-9.19	Average
-	5435.35	40.03	14.7	54.73	74	-19.27	Peak
-	5468.25	45.07	14.81	59.88	68.2	-8.32	Peak
@	5510	74.25	14.93	89.18	-	-	Average
@	5510	85.01	14.93	99.94	-	-	Peak
*	11020	27.89	20.38	48.27	74	-25.73	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 110	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5415.4	28.28	14.64	42.92	54	-11.08	Average
-	5415.4	39.67	14.64	54.31	74	-19.69	Peak
-	5464.05	39.23	14.79	54.02	68.2	-14.18	Peak
@	5550	62.05	14.99	77.04	-	-	Average
@	5550	71.25	14.99	86.24	-	-	Peak
-	5745.45	40.04	15.57	55.61	68.2	-12.59	Peak
-	11100	29.02	20.42	49.44	74	-24.56	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5401.75	29.07	14.59	43.66	54	-10.34	Average
-	5401.75	40.27	14.59	54.86	74	-19.14	Peak
-	5462.65	39.58	14.79	54.37	68.2	-13.83	Peak
@	5550	73.25	14.99	88.24	-	-	Average
@	5550	84.6	14.99	99.59	-	-	Peak
-	5732.85	41.12	15.48	56.6	68.2	-11.6	Peak
-	11100	28.38	20.42	48.8	74	-25.2	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 134	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5670	61.83	15.18	77.01	-	-	Average
@	5670	72.62	15.18	87.8	-	-	Peak
-	5747.55	40.51	15.59	56.1	68.2	-12.1	Peak
*	11340	27.57	20.34	47.91	74	-26.09	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5670	74.92	15.18	90.1	-	-	Average
@	5670	85.3	15.18	100.48	-	-	Peak
-	5731.1	41.23	15.46	56.69	68.2	-11.51	Peak
*	11340	28.53	20.34	48.87	74	-25.13	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 151	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5641.5	40.65	15.13	55.78	68.2	-12.42	Peak
-	5721.5	40.46	15.39	55.85	114.22	-58.37	Peak
@	5755	62.39	15.6	77.99	-	-	Average
@	5755	73.59	15.6	89.19	-	-	Peak
*	11510	29.13	20.72	49.85	74	-24.15	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5591.5	41.05	15.05	56.1	68.2	-12.1	Peak
-	5721.5	51.53	15.39	66.92	114.22	-47.3	Peak
@	5755	75.28	15.6	90.88	-	-	Average
@	5755	86.21	15.6	101.81	-	-	Peak
*	11510	28.45	20.72	49.17	74	-24.83	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 159	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5619	40.64	15.1	55.74	68.2	-12.46	Peak
-	5715.5	40.12	15.34	55.46	109.54	-54.08	Peak
@	5795	62.33	15.67	78	-	-	Average
@	5795	72.03	15.67	87.7	-	-	Peak
-	5873.5	41.32	16.12	57.44	105.62	-48.18	Peak
-	5978.5	41.7	16.37	58.07	68.2	-10.13	Peak
*	11590	29.03	20.44	49.47	74	-24.53	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5609	41.06	15.08	56.14	68.2	-12.06	Peak
-	5684	40.79	15.2	55.99	93.4	-37.41	Peak
@	5795	74.92	15.67	90.59	-	-	Average
@	5795	85.26	15.67	100.93	-	-	Peak
-	5852.5	42.81	15.97	58.78	116.5	-57.72	Peak
-	5976	40.52	16.38	56.9	68.2	-11.3	Peak
*	11590	30.53	20.44	50.97	74	-23.03	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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802.11ac (VHT80)

EUT Test Condition		Measurement Detail	
Channel	Channel 42	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5101.4	41.49	14.41	55.9	74	-18.1	Peak
@	5210	68.45	14.45	82.9	-	-	Peak
-	5140.1	29.8	14.54	44.34	54	-9.66	Average
@	5210	59.18	14.45	73.63	-	-	Average
-	10420	28.19	19.15	47.34	68.2	-20.86	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5148.8	48.92	14.57	63.49	74	-10.51	Peak
@	5210	81.86	14.45	96.31	-	-	Peak
-	5149.7	32.76	14.57	47.33	54	-6.67	Average
@	5210	70.24	14.45	84.69	-	-	Average
-	10420	29.87	19.15	49.02	68.2	-19.18	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 58	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5290	69.01	14.07	83.08	-	-	Peak
-	5451	40.2	14.75	54.95	74	-19.05	Peak
@	5290	57.71	14.07	71.78	-	-	Average
-	5459.1	27.87	14.78	42.65	54	-11.35	Average
-	10580	29.4	19.43	48.83	68.2	-19.37	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	5290	81.65	14.07	95.72	-	-	Peak
-	5370.3	42.01	14.37	56.38	74	-17.62	Peak
@	5290	69.58	14.07	83.65	-	-	Average
-	5373.9	28.69	14.4	43.09	54	-10.91	Average
-	10580	28.82	19.43	48.25	68.2	-19.95	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 106	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5457.75	28.57	14.78	43.35	54	-10.65	Average
-	5457.75	39.15	14.78	53.93	74	-20.07	Peak
-	5464.05	39.07	14.79	53.86	68.2	-14.34	Peak
@	5530	53.11	14.95	68.06	-	-	Average
@	5530	62.71	14.95	77.66	-	-	Peak
-	11060	28.51	20.41	48.92	74	-25.08	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5458.1	29.28	14.78	44.06	54	-9.94	Average
-	5458.1	43.92	14.78	58.7	74	-15.3	Peak
-	5461.25	41.27	14.78	56.05	68.2	-12.15	Peak
@	5530	67.24	14.95	82.19	-	-	Average
@	5530	77.04	14.95	91.99	-	-	Peak
-	11060	27.74	20.41	48.15	74	-25.85	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 155	Frequency Range	1 GHz ~ 40 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5573.5	41.26	15.03	56.29	68.2	-11.91	Peak
-	5691.5	40.97	15.21	56.18	98.93	-42.75	Peak
@	5775	56.21	15.64	71.85	-	-	Average
@	5775	66.3	15.64	81.94	-	-	Peak
-	5903	41.1	16.33	57.43	84.44	-27.01	Peak
-	6009.5	40.33	16.36	56.69	68.2	-11.51	Peak
*	11550	28.41	20.57	48.98	74	-25.02	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	5627.5	40.6	15.11	55.71	68.2	-12.49	Peak
-	5697.5	43.62	15.21	58.83	103.36	-44.53	Peak
@	5775	67.95	15.64	83.59	-	-	Average
@	5775	78.67	15.64	94.31	-	-	Peak
-	5894	41.17	16.28	57.45	91.1	-33.65	Peak
-	5928	41.11	16.36	57.47	68.2	-10.73	Peak
*	11550	29.4	20.57	49.97	74	-24.03	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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9 kHz ~ 30 MHz Data:

For 9 kHz to 30 MHz radiated emission have performed all modes of operation were investigated. The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

No non-compliance noted:

KDB 414788 D01 OATS and Chamber Correlation Justification

- Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

- OATs and chamber correlation testing had been performed and chamber measured test results is the worst case test result.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

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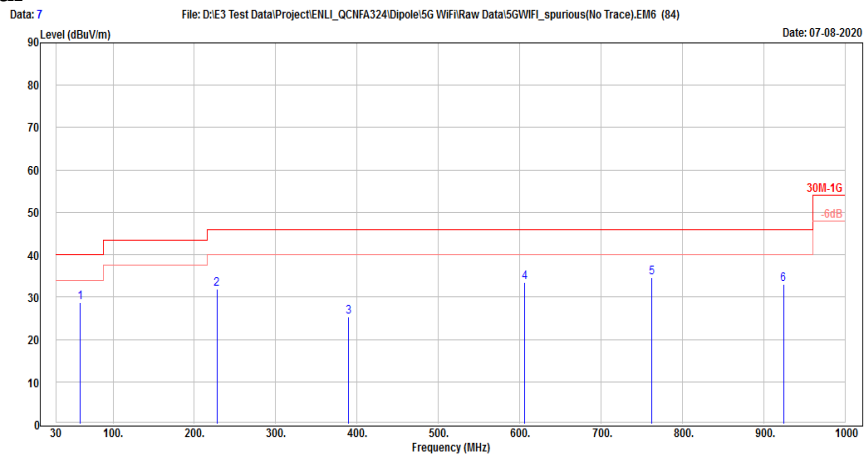
30 MHz ~ 1 GHz Data

Dipole Antenna

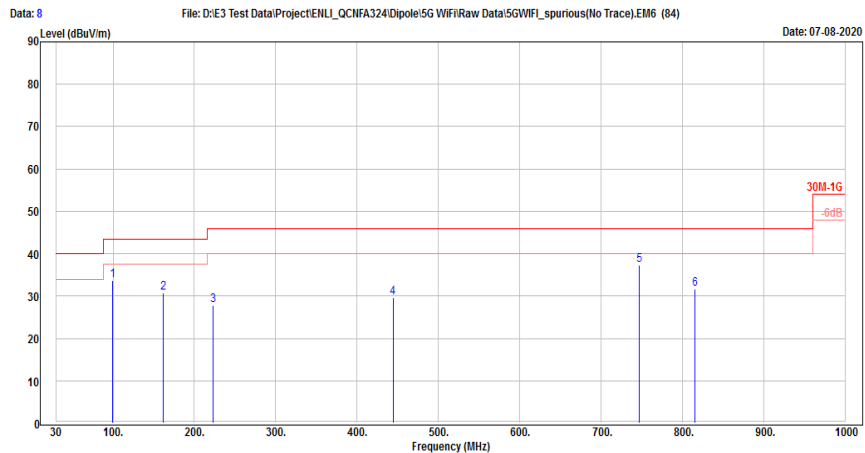
802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 38	Frequency Range	30 MHz ~ 1 GHz

Horizontal



Vertical



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Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	60.07	40.6	-11.92	28.68	40	-11.32	Peak
-	227.88	44.71	-12.86	31.85	46	-14.15	Peak
-	389.87	32.99	-7.6	25.39	46	-20.61	Peak
-	606.18	35.59	-2.22	33.37	46	-12.63	Peak
-	762.35	33.57	0.94	34.51	46	-11.49	Peak
-	924.34	29.65	3.3	32.95	46	-13.05	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	99.84	50.02	-16.23	33.79	43.5	-9.71	Peak
-	161.92	41.9	-11.1	30.8	43.5	-12.7	Peak
-	223.03	41.07	-13.33	27.74	46	-18.26	Peak
-	444.19	35.38	-5.78	29.6	46	-16.4	Peak
-	746.83	36.74	0.66	37.4	46	-8.6	Peak
-	815.7	30.55	1.16	31.71	46	-14.29	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamplifier Factor (dB).
4. The peak result complies with QP limit, QP result is deemed to comply with QP limit.
5. The other emission levels were very low against the limit.

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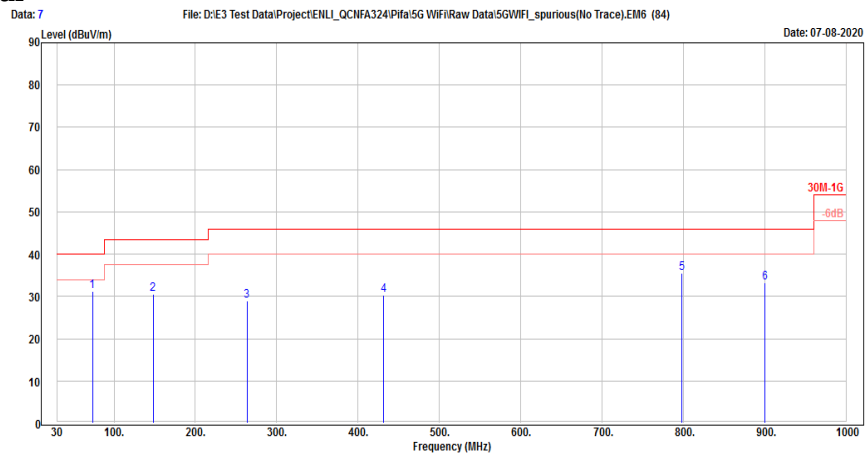


PIFA Antenna

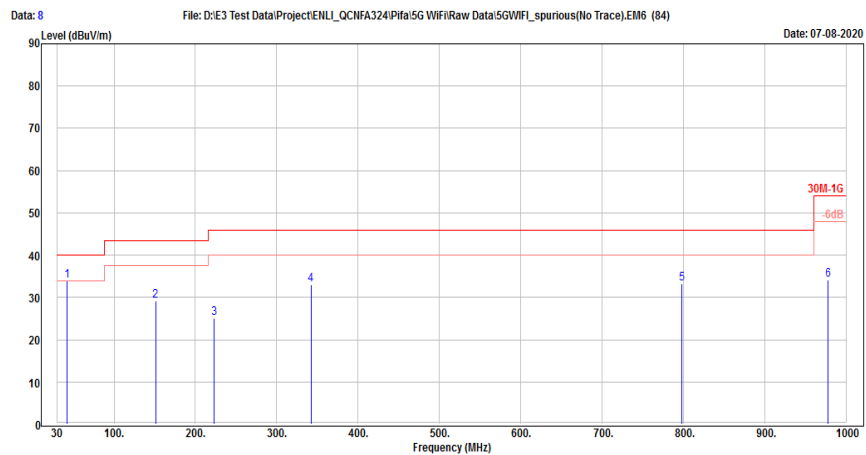
802.11n (HT20)

EUT Test Condition		Measurement Detail	
Channel	Channel 140	Frequency Range	30 MHz ~ 1 GHz

Horizontal



Vertical



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Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	73.65	46.42	-15.19	31.23	40	-8.77	Peak
-	148.34	42.78	-12.18	30.6	43.5	-12.9	Peak
-	263.77	41.03	-11.98	29.05	46	-16.95	Peak
-	431.58	37.61	-7.25	30.36	46	-15.64	Peak
-	798.24	35.87	-0.42	35.45	46	-10.55	Peak
-	900.09	31.63	1.65	33.28	46	-12.72	Peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	42.61	45.68	-11.75	33.93	40	-6.07	Peak
-	151.25	40.9	-11.65	29.25	43.5	-14.25	Peak
-	223.03	38.44	-13.33	25.11	46	-20.89	Peak
-	342.34	41.86	-8.76	33.1	46	-12.9	Peak
-	798.24	32.31	0.9	33.21	46	-12.79	Peak
-	977.69	29.72	4.36	34.08	54	-19.92	Peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamplifier Factor (dB).
4. The peak result complies with QP limit, QP result is deemed to comply with QP limit.
5. The other emission levels were very low against the limit.

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9.8. AC Power Line Conducted Emission

Requirements

Frequency (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

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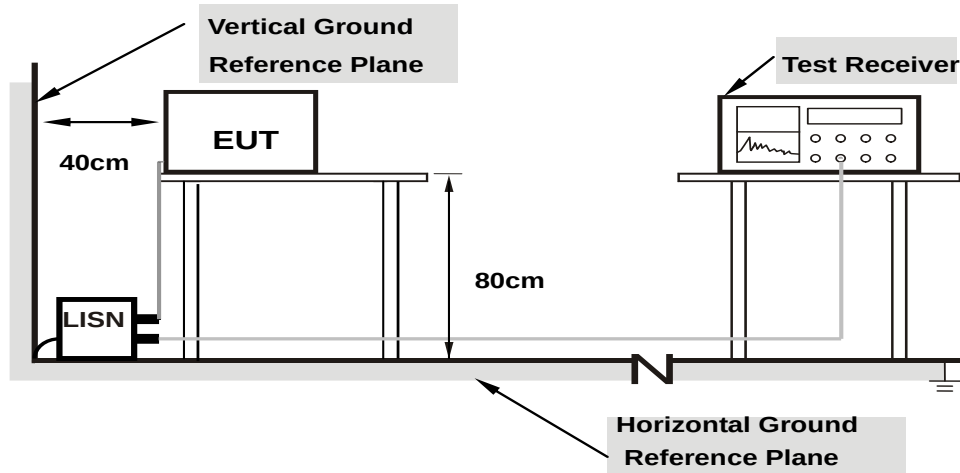
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Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the Setup Configurations.

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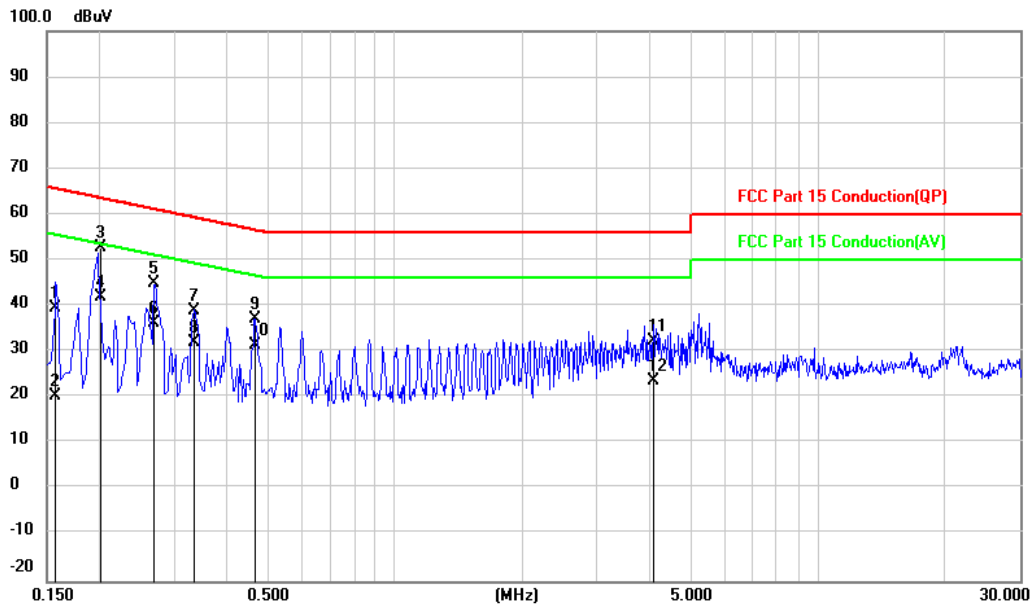


Test Data

802.11n (HT20)

EUT Test Condition		Measurement Detail	
Channel	Channel 140	Frequency Range	150 kHz ~ 30 MHz

Phase of Power : Line (L)



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB	(dBuV)	(dBuV)	(dB)	
1	0.1556	20.09	19.47	39.56	65.70	-26.14	QP
2	0.1556	1.00	19.47	20.47	55.70	-35.23	AVG
3	0.2017	33.38	19.47	52.85	63.54	-10.69	QP
4	0.2017	22.56	19.47	42.03	53.54	-11.51	AVG
5	0.2679	25.57	19.47	45.04	61.18	-16.14	QP
6	0.2679	16.82	19.47	36.29	51.18	-14.89	AVG
7	0.3350	19.51	19.47	38.98	59.33	-20.35	QP
8	0.3350	12.62	19.47	32.09	49.33	-17.24	AVG
9	0.4689	17.60	19.48	37.08	56.53	-19.45	QP
10	0.4689	12.11	19.48	31.59	46.53	-14.94	AVG
11	4.0847	12.64	19.59	32.23	56.00	-23.77	QP
12	4.0847	4.13	19.59	23.72	46.00	-22.28	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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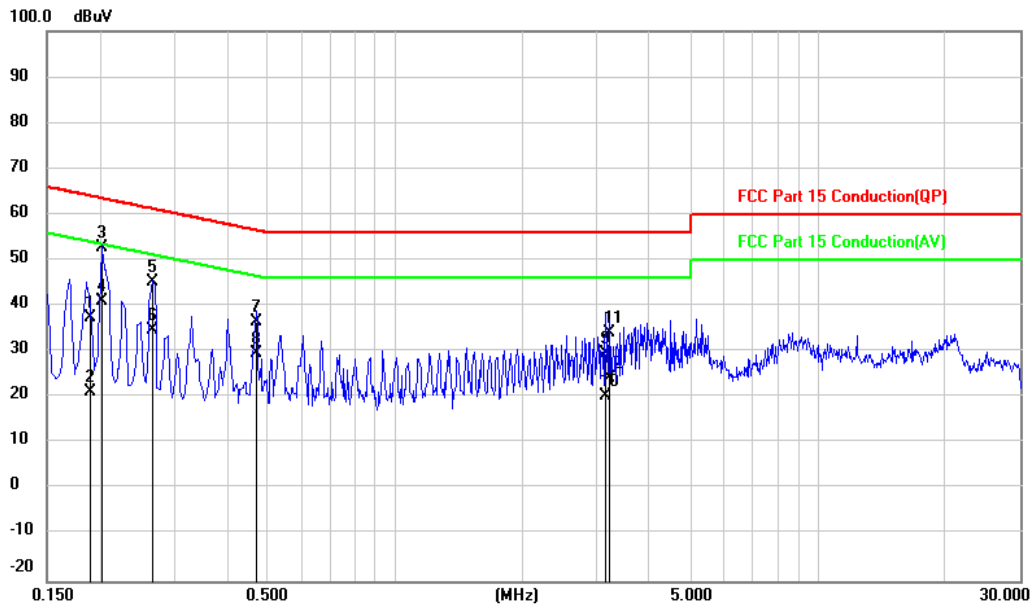
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Phase of Power : Neutral (N)



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB	(dBuV)	(dBuV)	(dB)	
1	0.1901	18.13	19.47	37.60	64.03	-26.43	QP
2	0.1901	1.86	19.47	21.33	54.03	-32.70	AVG
3	0.2012	33.42	19.48	52.90	63.56	-10.66	QP
4	0.2012	21.66	19.48	41.14	53.56	-12.42	AVG
5	0.2680	25.73	19.48	45.21	61.18	-15.97	QP
6	0.2680	15.40	19.48	34.88	51.18	-16.30	AVG
7	0.4688	17.13	19.49	36.62	56.54	-19.92	QP
8	0.4688	10.23	19.49	29.72	46.54	-16.82	AVG
9	3.1476	10.03	19.57	29.60	56.00	-26.40	QP
10	3.1476	0.79	19.57	20.36	46.00	-25.64	AVG
11	3.2143	14.46	19.57	34.03	56.00	-21.97	QP
12	3.2143	4.65	19.57	24.22	46.00	-21.78	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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