

FCC Measurement/Technical Report on

Industrial WLAN Access Point / Client

SCALANCE W700 / MSAX

MSAX65-W1-M12-E2

FCC ID: LYHMSAX65V1
IC: 267AA-MSAX65V1

Test Report Reference: MDE_SIEM_1911_FCC_05

Test Laboratory:

7layers GmbH
Borsigstrasse 11
40880 Ratingen
Germany



Deutsche
Akkreditierungsstelle
D-PL-12140-01-01
D-PL-12140-01-02
D-PL-12140-01-03

Note:

The following test results relate only to the devices specified in this document. This report shall not be reproduced in parts without the written approval of the test laboratory.

7layers GmbH
Borsigstraße 11
40880 Ratingen, Germany
T +49 (0) 2102 749 0
F +49 (0) 2102 749 350

Geschäftsführer/
Managing Directors:
Sebastian Doose
Stefan Kischka
Bernhard Retka

Registergericht/registered:
Düsseldorf HRB 75554
USt-Id.-Nr./VAT-No. DE203159652
Steuer-Nr./TAX-No. 147/5869/0385

*a Bureau Veritas
Group Company*

www.7layers.com

Table of Contents

1	Applied Standards and Test Summary	3
1.1	Applied Standards	3
1.2	FCC-IC Correlation Table	4
1.3	Measurement Summary	5
2	Revision History / Signatures	34
3	Administrative Data	35
3.1	Testing Laboratory	35
3.2	Project Data	35
3.3	Applicant Data	35
3.4	Manufacturer Data	35
4	Test object Data	36
4.1	General EUT Description	36
4.2	EUT Main components	37
4.3	Ancillary Equipment	38
4.4	Auxiliary Equipment	38
4.5	EUT Setups	39
4.6	Operating Modes / Test Channels / Duty Cycle	40
4.7	Product labelling	44
5	Test Results	45
5.1	26 dB Bandwidth	45
5.2	99 % Bandwidth	48
5.3	6 dB Bandwidth	52
5.4	Maximum Conducted Output Power	54
5.5	Peak Power Spectral Density	76
5.6	Undesirable Emissions; General Field Strength Limits	111
5.7	Band Edge	170
6	Test Equipment	241
6.1	Test Equipment Hardware	241
6.2	Test Equipment Software	244
7	Antenna Factors, Cable Loss and Sample Calculations	245
7.1	LISN R&S ESH3-Z5 (150 kHz – 30 MHz)	245
7.2	Antenna R&S HFH2-Z2 (9 kHz – 30 MHz)	246
7.3	Antenna R&S HL562 (30 MHz – 1 GHz)	247
7.4	Antenna R&S HF907 (1 GHz – 18 GHz)	248
7.5	Antenna EMCO 3160-09 (18 GHz – 26.5 GHz)	249
7.6	Antenna EMCO 3160-10 (26.5 GHz – 40 GHz)	250
8	Measurement Uncertainties	251
9	Photo Report	252

1 APPLIED STANDARDS AND TEST SUMMARY

1.1 APPLIED STANDARDS

Type of Authorization

Certification for an Intentional Radiator (Digital Device / Spread Spectrum).

Applicable FCC Rules

Prepared in accordance with the requirements of FCC Rules and Regulations as listed in 47 CFR Ch.1 Parts 2 (10-1-21 Edition) and 15 (10-1-21 Edition). The following subparts are applicable to the results in this test report.

Part 2, Subpart J - Equipment Authorization Procedures, Certification

Part 15, Subpart C – Intentional Radiators

§ 15.201 Equipment authorization requirement

§ 15.207 Conducted limits

§ 15.209 Radiated emission limits; general requirements

Part 15, Subpart E – Unlicensed National Information Infrastructure Devices

§ 15.403 Definitions

§ 15.407 General technical requirements

Note:

The tests were selected and performed with reference to the FCC Public Notice “Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E, 789033 D02 General U-NII Test Procedures New Rules v02r01, 2017-12-14”.

ANSI C63.10-2013 is applied.

1.2 FCC-IC CORRELATION TABLE

Correlation of measurement requirements for UNII / LE-LAN (e.g. WLAN 5 GHz) equipment from FCC and IC

UNII equipment

Measurement	FCC reference	IC reference
Conducted emissions on AC Mains	§ 15.207	RSS-Gen Issue 5: 8.8
Occupied bandwidth	§ 15.403 (26 dB) / § 15.407 (e) (6 dB)	RSS-247 Issue 2: 6.2.1.1, 6.2.2.1, 6.2.3.1 (99%) RSS-247 Issue 2: 6.2.4.1 (6 dB)
Maximum conducted output power	§ 15.407 (a) (1) to (8), (11)	RSS-247 Issue 2: 6.2.1.1, 6.2.2.1, 6.2.3.1, 6.2.4.1
Maximum power spectral density	§ 15.407 (a) (1) to (8), (12)	RSS-247 Issue 2: 6.2.1.1, 6.2.2.1, 6.2.3.1, 6.2.4.1
Transmitter undesirable emissions; General Field Strength Limits, Restricted Bands	§ 15.407 (b) § 15.209 (a)	RSS-Gen Issue 5: 6.13/8.9/8.10; RSS-247 Issue 2: 3.3/6.2 6.2.1.2, 6.2.2.2, 6.2.3.2, 6.2.4.2
Frequency stability	§ 15.407 (g)	RSS-Gen Issue 5: 6.11/8.11
Transmit Power Control (TPC) and Dynamic Frequency Selection (DFS)	§ 15.407 (h)	RSS-247 Issue 2: 6.2.2.1, 6.2.3.1, 6.3
Antenna requirement	§ 15.203 / 15.204 § 15.407 (a) (9)	RSS-Gen Issue 5: 8.3
Receiver spurious emissions	-	-

1.3 MEASUREMENT SUMMARY

47 CFR CHAPTER I FCC PART 15 Subpart E §15.407

FCC §15.31, §15.403 (i)

26 dB Bandwidth

The measurement was performed according to
ANSI C63.10, chapter 12.4.1

Final Result

OP-Mode Radio Technology, Operating Frequency, Subband	Setup	Date	FCC	IC
WLAN a, high, U-NII-2A	S01_AH03	2022-07-20	Performed	N/A
WLAN a, high, U-NII-2C	S01_AJ03	2023-02-08	Performed	N/A
WLAN a, low, U-NII-2A	S01_AH03	2022-07-20	Performed	N/A
WLAN a, low, U-NII-2C	S01_AH03	2022-07-20	Performed	N/A
WLAN a, mid, U-NII-2A	S01_AH03	2022-07-20	Performed	N/A
WLAN a, mid, U-NII-2C	S01_AH03	2022-07-20	Performed	N/A
WLAN a, straddle, U-NII-2C/3	S01_AJ03	2023-02-08	Performed	N/A
WLAN ac 20 MHz, high, U-NII-2A	S01_AH03	2022-07-20	Performed	N/A
WLAN ac 20 MHz, high, U-NII-2C	S01_AJ03	2023-02-08	Performed	N/A
WLAN ac 20 MHz, low, U-NII-2A	S01_AH03	2022-07-20	Performed	N/A
WLAN ac 20 MHz, low, U-NII-2C	S01_AH03	2022-07-20	Performed	N/A
WLAN ac 20 MHz, mid, U-NII-2A	S01_AH03	2022-07-20	Performed	N/A
WLAN ac 20 MHz, mid, U-NII-2C	S01_AH03	2022-07-20	Performed	N/A
WLAN ac 20 MHz, straddle, U-NII-2C/3	S01_AJ03	2023-02-08	Performed	N/A
WLAN ac 40 MHz, high, U-NII-2A	S01_AH03	2022-07-25	Performed	N/A
WLAN ac 40 MHz, high, U-NII-2C	S01_AJ03	2023-02-08	Performed	N/A
WLAN ac 40 MHz, low, U-NII-2A	S01_AH03	2022-07-25	Performed	N/A
WLAN ac 40 MHz, low, U-NII-2C	S01_AH03	2022-07-25	Performed	N/A
WLAN ac 40 MHz, mid, U-NII-2C	S01_AH03	2022-07-25	Performed	N/A
WLAN ac 40 MHz, straddle, U-NII-2C/3	S01_AJ03	2023-02-08	Performed	N/A
WLAN ax 20 MHz, high, U-NII-2A	S01_AH03	2022-07-20	Performed	N/A
WLAN ax 20 MHz, high, U-NII-2C	S01_AJ03	2023-02-08	Performed	N/A
WLAN ax 20 MHz, low, U-NII-2A	S01_AH03	2022-07-20	Performed	N/A
WLAN ax 20 MHz, low, U-NII-2C	S01_AH03	2022-07-20	Performed	N/A
WLAN ax 20 MHz, mid, U-NII-2A	S01_AH03	2022-07-20	Performed	N/A
WLAN ax 20 MHz, mid, U-NII-2C	S01_AH03	2022-07-20	Performed	N/A
WLAN ax 20 MHz, straddle, U-NII-2C/3	S01_AJ03	2023-02-08	Performed	N/A
WLAN ax 40 MHz, high, U-NII-2A	S01_AH03	2022-07-25	Performed	N/A
WLAN ax 40 MHz, high, U-NII-2C	S01_AJ03	2023-02-08	Performed	N/A
WLAN ax 40 MHz, low, U-NII-2A	S01_AH03	2022-07-25	Performed	N/A
WLAN ax 40 MHz, low, U-NII-2C	S01_AH03	2022-07-25	Performed	N/A
WLAN ax 40 MHz, mid, U-NII-2C	S01_AH03	2022-07-25	Performed	N/A
WLAN ax 40 MHz, straddle, U-NII-2C/3	S01_AJ03	2023-02-08	Performed	N/A
WLAN n 20 MHz, high, U-NII-2A	S01_AH03	2022-07-20	Performed	N/A
WLAN n 20 MHz, high, U-NII-2C	S01_AJ03	2023-02-08	Performed	N/A
WLAN n 20 MHz, low, U-NII-2A	S01_AH03	2022-07-20	Performed	N/A
WLAN n 20 MHz, low, U-NII-2C	S01_AH03	2022-07-20	Performed	N/A
WLAN n 20 MHz, mid, U-NII-2A	S01_AH03	2022-07-20	Performed	N/A
WLAN n 20 MHz, mid, U-NII-2C	S01_AH03	2022-07-20	Performed	N/A
WLAN n 20 MHz, straddle, U-NII-2C/3	S01_AJ03	2023-02-08	Performed	N/A



**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.403 (i)

26 dB Bandwidth

The measurement was performed according to
ANSI C63.10, chapter 12.4.1

Final Result

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN n 40 MHz, high, U-NII-2A	S01_AH03	2022-07-22	Performed	N/A
WLAN n 40 MHz, high, U-NII-2C	S01_AJ03	2023-02-08	Performed	N/A
WLAN n 40 MHz, low, U-NII-2A	S01_AH03	2022-07-22	Performed	N/A
WLAN n 40 MHz, low, U-NII-2C	S01_AH03	2022-07-22	Performed	N/A
WLAN n 40 MHz, mid, U-NII-2C	S01_AH03	2022-07-22	Performed	N/A
WLAN n 40 MHz, straddle, U-NII-2C/3	S01_AJ03	2023-02-08	Performed	N/A



**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, IC RSS 247 Ch. 6.2.x

99 % Bandwidth

The measurement was performed according to
ANSI C63.10, chapter 12.4.2 (6.9.3)

Final Result

OP-Mode Radio Technology, Operating Frequency, Subband	Setup	Date	FCC	IC
WLAN a, high, U-NII-2A	S01_AH03	2022-07-20	N/A	Performed
WLAN a, high, U-NII-2C	S01_AH03	2022-07-20	N/A	Performed
WLAN a, low, U-NII-2A	S01_AH03	2022-07-20	N/A	Performed
WLAN a, low, U-NII-2C	S01_AH03	2022-07-20	N/A	Performed
WLAN a, mid, U-NII-2A	S01_AH03	2022-07-20	N/A	Performed
WLAN a, mid, U-NII-2C	S01_AH03	2022-07-20	N/A	Performed
WLAN a, straddle, U-NII-2C/3	S01_AH03	2022-07-20	N/A	Performed
WLAN ac 20 MHz, high, U-NII-2A	S01_AH03	2022-07-20	N/A	Performed
WLAN ac 20 MHz, high, U-NII-2C	S01_AH03	2022-07-20	N/A	Performed
WLAN ac 20 MHz, low, U-NII-2A	S01_AH03	2022-07-20	N/A	Performed
WLAN ac 20 MHz, low, U-NII-2C	S01_AH03	2022-07-20	N/A	Performed
WLAN ac 20 MHz, mid, U-NII-2A	S01_AH03	2022-07-20	N/A	Performed
WLAN ac 20 MHz, mid, U-NII-2C	S01_AH03	2022-07-20	N/A	Performed
WLAN ac 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-20	N/A	Performed
WLAN ac 40 MHz, high, U-NII-2A	S01_AH03	2022-07-25	N/A	Performed
WLAN ac 40 MHz, high, U-NII-2C	S01_AJ03	2022-09-02	N/A	Performed
WLAN ac 40 MHz, low, U-NII-2A	S01_AH03	2022-07-25	N/A	Performed
WLAN ac 40 MHz, low, U-NII-2C	S01_AH03	2022-07-25	N/A	Performed
WLAN ac 40 MHz, mid, U-NII-2C	S01_AH03	2022-07-25	N/A	Performed
WLAN ac 40 MHz, straddle, U-NII-2C/3	S01_AJ03	2023-02-08	N/A	Performed
WLAN ax 20 MHz, high, U-NII-2A	S01_AH03	2022-07-20	N/A	Performed
WLAN ax 20 MHz, high, U-NII-2C	S01_AH03	2022-07-20	N/A	Performed
WLAN ax 20 MHz, low, U-NII-2A	S01_AH03	2022-07-20	N/A	Performed
WLAN ax 20 MHz, low, U-NII-2C	S01_AH03	2022-07-20	N/A	Performed
WLAN ax 20 MHz, mid, U-NII-2A	S01_AH03	2022-07-20	N/A	Performed
WLAN ax 20 MHz, mid, U-NII-2C	S01_AH03	2022-07-20	N/A	Performed
WLAN ax 20 MHz, straddle, U-NII-2C/3	S01_AJ03	2023-02-08	N/A	Performed
WLAN ax 40 MHz, high, U-NII-2A	S01_AH03	2022-07-25	N/A	Performed
WLAN ax 40 MHz, high, U-NII-2C	S01_AJ03	2022-09-02	N/A	Performed
WLAN ax 40 MHz, low, U-NII-2A	S01_AH03	2022-07-25	N/A	Performed
WLAN ax 40 MHz, low, U-NII-2C	S01_AH03	2022-07-25	N/A	Performed
WLAN ax 40 MHz, mid, U-NII-2C	S01_AH03	2022-07-25	N/A	Performed
WLAN ax 40 MHz, straddle, U-NII-2C/3	S01_AJ03	2023-02-08	N/A	Performed
WLAN n 20 MHz, high, U-NII-2A	S01_AH03	2022-07-22	N/A	Performed
WLAN n 20 MHz, high, U-NII-2C	S01_AH03	2022-07-20	N/A	Performed
WLAN n 20 MHz, low, U-NII-2A	S01_AH03	2022-07-22	N/A	Performed
WLAN n 20 MHz, low, U-NII-2C	S01_AH03	2022-07-22	N/A	Performed
WLAN n 20 MHz, mid, U-NII-2A	S01_AH03	2022-07-22	N/A	Performed
WLAN n 20 MHz, mid, U-NII-2C	S01_AH03	2022-07-22	N/A	Performed
WLAN n 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-22	N/A	Performed
WLAN n 40 MHz, high, U-NII-2A	S01_AH03	2022-07-22	N/A	Performed
WLAN n 40 MHz, high, U-NII-2C	S01_AJ03	2022-09-02	N/A	Performed

**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, IC RSS 247 Ch. 6.2.x

99 % Bandwidth

The measurement was performed according to
ANSI C63.10, chapter 12.4.2 (6.9.3)

Final Result

OP-Mode Radio Technology, Operating Frequency, Subband	Setup	Date	FCC	IC
WLAN n 40 MHz, low, U-NII-2A	S01_AH03	2022-07-22	N/A	Performed
WLAN n 40 MHz, low, U-NII-2C	S01_AH03	2022-07-22	N/A	Performed
WLAN n 40 MHz, mid, U-NII-2C	S01_AH03	2022-07-22	N/A	Performed
WLAN n 40 MHz, straddle, U-NII-2C/3	S01_AJ03	2023-02-08	N/A	Performed

**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (e)

6 dB Bandwidth

The measurement was performed according to
ANSI C63.10, chapter 6.9.2

Final Result

OP-Mode Radio Technology, Operating Frequency, Subband	Setup	Date	FCC	IC
WLAN a, straddle, U-NII-2C/3	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-25	Passed	Passed
WLAN n 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-22	Passed	Passed
WLAN n 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-22	Passed	Passed

**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (a)(1)

Maximum Conducted Output Power

The measurement was performed according to
ANSI C63.10, chapter 12.3.3.2

Final Result

**Conducted power settings for antenna gain ≤ 8.0 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN a DIVERSITY, high, U-NII-2A	S01_AH03	2022-07-26	Passed	Passed
WLAN a DIVERSITY, high, U-NII-2C	S01_AH03	2022-07-26	Passed	Passed
WLAN a DIVERSITY, low, U-NII-2A	S01_AH03	2022-07-26	Passed	Passed
WLAN a DIVERSITY, low, U-NII-2C	S01_AH03	2022-07-26	Passed	Passed
WLAN a DIVERSITY, mid, U-NII-2A	S01_AH03	2022-07-26	Passed	Passed
WLAN a DIVERSITY, mid, U-NII-2C	S01_AH03	2022-07-26	Passed	Passed
WLAN a DIVERSITY, straddle, U-NII-2C/3	S01_AH03	2022-07-26	Passed	Passed
WLAN a, high, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN a, high, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN a, low, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN a, low, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN a, mid, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN a, mid, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN a, straddle, U-NII-2C/3	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz MIMO, high, U-NII-2A	S01_AH03	2022-07-27	Passed	Passed
WLAN ac 20 MHz MIMO, high, U-NII-2C	S01_AH03	2022-07-27	Passed	Passed
WLAN ac 20 MHz MIMO, low, U-NII-2A	S01_AH03	2022-07-27	Passed	Passed
WLAN ac 20 MHz MIMO, low, U-NII-2C	S01_AH03	2022-07-27	Passed	Passed
WLAN ac 20 MHz MIMO, mid, U-NII-2A	S01_AH03	2022-07-27	Passed	Passed
WLAN ac 20 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-07-27	Passed	Passed
WLAN ac 20 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-07-27	Passed	Passed
WLAN ac 20 MHz, high, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, high, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, low, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, low, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, mid, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, mid, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 40 MHz MIMO, high, U-NII-2A	S01_AH03	2022-08-17	Passed	Passed
WLAN ac 40 MHz MIMO, high, U-NII-2C	S01_AH03	2022-08-17	Passed	Passed
WLAN ac 40 MHz MIMO, low, U-NII-2A	S01_AH03	2022-08-17	Passed	Passed
WLAN ac 40 MHz MIMO, low, U-NII-2C	S01_AH03	2022-08-17	Passed	Passed
WLAN ac 40 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-08-17	Passed	Passed
WLAN ac 40 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-08-17	Passed	Passed
WLAN ac 40 MHz, high, U-NII-2A	S01_AH03	2022-07-25	Passed	Passed
WLAN ac 40 MHz, high, U-NII-2C	S01_AH03	2022-07-25	Passed	Passed
WLAN ac 40 MHz, low, U-NII-2A	S01_AH03	2022-07-25	Passed	Passed
WLAN ac 40 MHz, low, U-NII-2C	S01_AH03	2022-07-25	Passed	Passed
WLAN ac 40 MHz, mid, U-NII-2C	S01_AH03	2022-07-25	Passed	Passed
WLAN ac 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-25	Passed	Passed

**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (a)(1)

Maximum Conducted Output Power
The measurement was performed according to
ANSI C63.10, chapter 12.3.3.2

Final Result

**Conducted power settings for antenna gain ≤ 8.0 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN ax 20 MHz MIMO, high, U-NII-2A	S01_AH03	2022-07-28	Passed	Passed
WLAN ax 20 MHz MIMO, high, U-NII-2C	S01_AH03	2022-07-28	Passed	Passed
WLAN ax 20 MHz MIMO, low, U-NII-2A	S01_AH03	2022-07-28	Passed	Passed
WLAN ax 20 MHz MIMO, low, U-NII-2C	S01_AH03	2022-07-28	Passed	Passed
WLAN ax 20 MHz MIMO, mid, U-NII-2A	S01_AH03	2022-07-28	Passed	Passed
WLAN ax 20 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-07-28	Passed	Passed
WLAN ax 20 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-07-28	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, low, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, low, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 40 MHz MIMO, high, U-NII-2A	S01_AH03	2022-08-19	Passed	Passed
WLAN ax 40 MHz MIMO, high, U-NII-2C	S01_AH03	2022-08-19	Passed	Passed
WLAN ax 40 MHz MIMO, low, U-NII-2A	S01_AH03	2022-08-19	Passed	Passed
WLAN ax 40 MHz MIMO, low, U-NII-2C	S01_AH03	2022-08-19	Passed	Passed
WLAN ax 40 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-08-19	Passed	Passed
WLAN ax 40 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-08-19	Passed	Passed
WLAN ax 40 MHz, high, U-NII-2A	S01_AH03	2022-07-25	Passed	Passed
WLAN ax 40 MHz, high, U-NII-2C	S01_AH03	2022-07-25	Passed	Passed
WLAN ax 40 MHz, low, U-NII-2A	S01_AH03	2022-07-25	Passed	Passed
WLAN ax 40 MHz, low, U-NII-2C	S01_AH03	2022-07-25	Passed	Passed
WLAN ax 40 MHz, mid, U-NII-2C	S01_AH03	2022-07-25	Passed	Passed
WLAN ax 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-25	Passed	Passed
WLAN n 20 MHz MIMO, high, U-NII-2A	S01_AH03	2022-07-26	Passed	Passed
WLAN n 20 MHz MIMO, high, U-NII-2C	S01_AH03	2022-07-26	Passed	Passed
WLAN n 20 MHz MIMO, low, U-NII-2A	S01_AH03	2022-07-26	Passed	Passed
WLAN n 20 MHz MIMO, low, U-NII-2C	S01_AH03	2022-07-26	Passed	Passed
WLAN n 20 MHz MIMO, mid, U-NII-2A	S01_AH03	2022-07-26	Passed	Passed
WLAN n 20 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-07-26	Passed	Passed
WLAN n 20 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-07-26	Passed	Passed
WLAN n 20 MHz, high, U-NII-2A	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, high, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN n 20 MHz, low, U-NII-2A	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, low, U-NII-2C	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, mid, U-NII-2A	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, mid, U-NII-2C	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-22	Passed	Passed
WLAN n 40 MHz MIMO, high, U-NII-2A	S01_AH03	2022-08-01	Passed	Passed

**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (a)(1)

Maximum Conducted Output Power

The measurement was performed according to
ANSI C63.10, chapter 12.3.3.2

Final Result

**Conducted power settings for antenna gain ≤ 8.0 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN n 40 MHz MIMO, high, U-NII-2C	S01_AH03	2022-08-01	Passed	Passed
WLAN n 40 MHz MIMO, low, U-NII-2A	S01_AH03	2022-08-01	Passed	Passed
WLAN n 40 MHz MIMO, low, U-NII-2C	S01_AH03	2022-08-01	Passed	Passed
WLAN n 40 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-08-01	Passed	Passed
WLAN n 40 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-08-01	Passed	Passed
WLAN n 40 MHz, high, U-NII-2A	S01_AH03	2022-07-22	Passed	Passed
WLAN n 40 MHz, high, U-NII-2C	S01_AH03	2022-07-22	Passed	Passed
WLAN n 40 MHz, low, U-NII-2A	S01_AH03	2022-07-22	Passed	Passed
WLAN n 40 MHz, low, U-NII-2C	S01_AH03	2022-07-22	Passed	Passed
WLAN n 40 MHz, mid, U-NII-2C	S01_AH03	2022-07-22	Passed	Passed
WLAN n 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-22	Passed	Passed

**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (a)(1)

Maximum Conducted Output Power

The measurement was performed according to ANSI C63.10, chapter 12.3.3.2

Final Result

**Conducted power settings for antenna gain > 8.0 dBi and ≤ 9.0 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN a DIVERSITY, high, U-NII-2A	S01_AH03	2022-09-08	Passed	Passed
WLAN a DIVERSITY, high, U-NII-2C	S01_AH03	2022-09-08	Passed	Passed
WLAN a DIVERSITY, low, U-NII-2A	S01_AH03	2022-09-08	Passed	Passed
WLAN a DIVERSITY, low, U-NII-2C	S01_AH03	2022-09-08	Passed	Passed
WLAN a DIVERSITY, mid, U-NII-2A	S01_AH03	2022-09-08	Passed	Passed
WLAN a DIVERSITY, mid, U-NII-2C	S01_AH03	2022-09-08	Passed	Passed
WLAN a DIVERSITY, straddle, U-NII-2C/3	S01_AH03	2022-09-08	Passed	Passed
WLAN a, high, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN a, high, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN a, low, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN a, low, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN a, mid, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN a, mid, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN a, straddle, U-NII-2C/3	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 20 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 20 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 20 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 20 MHz MIMO, mid, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 20 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 20 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 20 MHz, high, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, high, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, low, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, low, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, mid, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, mid, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 40 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 40 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 40 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 40 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 40 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 40 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 40 MHz, high, U-NII-2A	S01_AH03	2022-09-08	Passed	Passed
WLAN ac 40 MHz, high, U-NII-2C	S01_AH03	2022-09-08	Passed	Passed
WLAN ac 40 MHz, low, U-NII-2A	S01_AH03	2022-09-08	Passed	Passed
WLAN ac 40 MHz, low, U-NII-2C	S01_AH03	2022-09-08	Passed	Passed
WLAN ac 40 MHz, mid, U-NII-2C	S01_AH03	2022-09-08	Passed	Passed
WLAN ac 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-09-08	Passed	Passed

**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (a)(1)

Maximum Conducted Output Power

The measurement was performed according to ANSI C63.10, chapter 12.3.3.2

Final Result

**Conducted power settings for antenna gain > 8.0 dBi and ≤ 9.0 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN ax 20 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN ax 20 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN ax 20 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN ax 20 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN ax 20 MHz MIMO, mid, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN ax 20 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN ax 20 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-09	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, low, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, low, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 40 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 40 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 40 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 40 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 40 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 40 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 40 MHz, high, U-NII-2A	S01_AH03	2022-09-08	Passed	Passed
WLAN ax 40 MHz, high, U-NII-2C	S01_AH03	2022-09-08	Passed	Passed
WLAN ax 40 MHz, low, U-NII-2A	S01_AH03	2022-09-08	Passed	Passed
WLAN ax 40 MHz, low, U-NII-2C	S01_AH03	2022-09-08	Passed	Passed
WLAN ax 40 MHz, mid, U-NII-2C	S01_AH03	2022-09-08	Passed	Passed
WLAN ax 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-09-08	Passed	Passed
WLAN n 20 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN n 20 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN n 20 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN n 20 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN n 20 MHz MIMO, mid, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN n 20 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN n 20 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-09	Passed	Passed
WLAN n 20 MHz, high, U-NII-2A	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, high, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN n 20 MHz, low, U-NII-2A	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, low, U-NII-2C	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, mid, U-NII-2A	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, mid, U-NII-2C	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-22	Passed	Passed



**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (a)(1)

Maximum Conducted Output Power

The measurement was performed according to ANSI C63.10, chapter 12.3.3.2

Final Result

**Conducted power settings for antenna gain > 8.0 dBi and ≤ 9.0 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN n 40 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN n 40 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN n 40 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN n 40 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN n 40 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN n 40 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-09	Passed	Passed
WLAN n 40 MHz, high, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, high, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, low, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, low, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, mid, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-09-07	Passed	Passed

**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (a)(1)

Maximum Conducted Output Power

The measurement was performed according to ANSI C63.10, chapter 12.3.3.2

Final Result

**Conducted power settings for antenna gain > 9.0 dBi and ≤ 14.2 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN a DIVERSITY, high, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN a DIVERSITY, high, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN a DIVERSITY, low, U-NII-2A	S01_AJ03	2022-10-17	Passed	Passed
WLAN a DIVERSITY, low, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN a DIVERSITY, mid, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN a DIVERSITY, mid, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN a DIVERSITY, straddle, U-NII-2C/3	S01_AH03	2022-09-13	Passed	Passed
WLAN a, high, U-NII-2A	S01_AJ03	2022-10-17	Passed	Passed
WLAN a, high, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN a, low, U-NII-2A	S01_AJ03	2022-10-17	Passed	Passed
WLAN a, low, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN a, mid, U-NII-2A	S01_AJ03	2022-10-17	Passed	Passed
WLAN a, mid, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN a, straddle, U-NII-2C/3	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 20 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN ac 20 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN ac 20 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN ac 20 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN ac 20 MHz MIMO, mid, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN ac 20 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN ac 20 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-12	Passed	Passed
WLAN ac 20 MHz, high, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 20 MHz, high, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 20 MHz, low, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 20 MHz, low, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 20 MHz, mid, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 20 MHz, mid, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 40 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-13	Passed	Passed
WLAN ac 40 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN ac 40 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-13	Passed	Passed
WLAN ac 40 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN ac 40 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN ac 40 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-13	Passed	Passed
WLAN ac 40 MHz, high, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 40 MHz, high, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 40 MHz, low, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 40 MHz, low, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 40 MHz, mid, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-09-07	Passed	Passed



**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (a)(1)

Maximum Conducted Output Power

The measurement was performed according to ANSI C63.10, chapter 12.3.3.2

Final Result

**Conducted power settings for antenna gain > 9.0 dBi and ≤ 14.2 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN ax 20 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 20 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 20 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 20 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 20 MHz MIMO, mid, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 20 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 20 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 20 MHz, low, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 20 MHz, low, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 40 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-13	Passed	Passed
WLAN ax 40 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN ax 40 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-13	Passed	Passed
WLAN ax 40 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN ax 40 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN ax 40 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-13	Passed	Passed
WLAN ax 40 MHz, high, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 40 MHz, high, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 40 MHz, low, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 40 MHz, low, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 40 MHz, mid, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-09-07	Passed	Passed
WLAN n 20 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN n 20 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN n 20 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN n 20 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN n 20 MHz MIMO, mid, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN n 20 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN n 20 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-12	Passed	Passed
WLAN n 20 MHz, high, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN n 20 MHz, high, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN n 20 MHz, low, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN n 20 MHz, low, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN n 20 MHz, mid, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN n 20 MHz, mid, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN n 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-09-07	Passed	Passed



**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (a)(1)

Maximum Conducted Output Power

The measurement was performed according to ANSI C63.10, chapter 12.3.3.2

Final Result

**Conducted power settings for antenna gain > 9.0 dBi and ≤ 14.2 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN n 40 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-13	Passed	Passed
WLAN n 40 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN n 40 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-13	Passed	Passed
WLAN n 40 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN n 40 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN n 40 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-13	Passed	Passed
WLAN n 40 MHz, high, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, high, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, low, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, low, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, mid, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-09-07	Passed	Passed



**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (a) (1), (5)

Peak Power Spectral Density

The measurement was performed according to
ANSI C63.10, chapter 12.5 (SA-3)

Final Result

**Conducted power settings for antenna gain ≤ 8.0 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN a DIVERSITY, high, U-NII-2A	S01_AH03	2022-07-26	Passed	Passed
WLAN a DIVERSITY, high, U-NII-2C	S01_AH03	2022-07-26	Passed	Passed
WLAN a DIVERSITY, low, U-NII-2A	S01_AH03	2022-07-26	Passed	Passed
WLAN a DIVERSITY, low, U-NII-2C	S01_AH03	2022-07-26	Passed	Passed
WLAN a DIVERSITY, mid, U-NII-2A	S01_AH03	2022-07-26	Passed	Passed
WLAN a DIVERSITY, mid, U-NII-2C	S01_AH03	2022-07-26	Passed	Passed
WLAN a DIVERSITY, straddle, U-NII-2C/3	S01_AH03	2022-07-26	Passed	Passed
WLAN a, high, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN a, high, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN a, low, U-NII-2A	S01_AJ03	2022-10-17	Passed	Passed
WLAN a, low, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN a, mid, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN a, mid, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN a, straddle, U-NII-2C/3	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz MIMO, high, U-NII-2A	S01_AH03	2022-07-27	Passed	Passed
WLAN ac 20 MHz MIMO, high, U-NII-2C	S01_AH03	2022-07-27	Passed	Passed
WLAN ac 20 MHz MIMO, low, U-NII-2A	S01_AH03	2022-07-27	Passed	Passed
WLAN ac 20 MHz MIMO, low, U-NII-2C	S01_AH03	2022-07-27	Passed	Passed
WLAN ac 20 MHz MIMO, mid, U-NII-2A	S01_AH03	2022-07-27	Passed	Passed
WLAN ac 20 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-07-27	Passed	Passed
WLAN ac 20 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-07-27	Passed	Passed
WLAN ac 20 MHz, high, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, high, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, low, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, low, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, mid, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, mid, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 40 MHz MIMO, high, U-NII-2A	S01_AH03	2022-08-17	Passed	Passed
WLAN ac 40 MHz MIMO, high, U-NII-2C	S01_AH03	2022-08-17	Passed	Passed
WLAN ac 40 MHz MIMO, low, U-NII-2A	S01_AH03	2022-08-17	Passed	Passed
WLAN ac 40 MHz MIMO, low, U-NII-2C	S01_AH03	2022-08-17	Passed	Passed
WLAN ac 40 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-08-17	Passed	Passed
WLAN ac 40 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-08-17	Passed	Passed
WLAN ac 40 MHz, high, U-NII-2A	S01_AH03	2022-07-25	Passed	Passed
WLAN ac 40 MHz, high, U-NII-2C	S01_AH03	2022-07-25	Passed	Passed
WLAN ac 40 MHz, low, U-NII-2A	S01_AH03	2022-07-25	Passed	Passed
WLAN ac 40 MHz, low, U-NII-2C	S01_AH03	2022-07-25	Passed	Passed
WLAN ac 40 MHz, mid, U-NII-2C	S01_AH03	2022-07-25	Passed	Passed
WLAN ac 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-25	Passed	Passed



**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (a) (1), (5)

Peak Power Spectral Density

The measurement was performed according to
ANSI C63.10, chapter 12.5 (SA-3)

Final Result

**Conducted power settings for antenna gain ≤ 8.0 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN ax 20 MHz MIMO, high, U-NII-2A	S01_AH03	2022-07-28	Passed	Passed
WLAN ax 20 MHz MIMO, high, U-NII-2C	S01_AH03	2022-07-28	Passed	Passed
WLAN ax 20 MHz MIMO, low, U-NII-2A	S01_AH03	2022-07-28	Passed	Passed
WLAN ax 20 MHz MIMO, low, U-NII-2C	S01_AH03	2022-07-28	Passed	Passed
WLAN ax 20 MHz MIMO, mid, U-NII-2A	S01_AH03	2022-07-28	Passed	Passed
WLAN ax 20 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-07-28	Passed	Passed
WLAN ax 20 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-07-28	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, low, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, low, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 40 MHz MIMO, high, U-NII-2A	S01_AH03	2022-08-19	Passed	Passed
WLAN ax 40 MHz MIMO, high, U-NII-2C	S01_AH03	2022-08-19	Passed	Passed
WLAN ax 40 MHz MIMO, low, U-NII-2A	S01_AH03	2022-08-19	Passed	Passed
WLAN ax 40 MHz MIMO, low, U-NII-2C	S01_AH03	2022-08-19	Passed	Passed
WLAN ax 40 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-08-19	Passed	Passed
WLAN ax 40 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-08-19	Passed	Passed
WLAN ax 40 MHz, high, U-NII-2A	S01_AH03	2022-07-25	Passed	Passed
WLAN ax 40 MHz, high, U-NII-2C	S01_AH03	2022-07-25	Passed	Passed
WLAN ax 40 MHz, low, U-NII-2A	S01_AH03	2022-07-25	Passed	Passed
WLAN ax 40 MHz, low, U-NII-2C	S01_AH03	2022-07-25	Passed	Passed
WLAN ax 40 MHz, mid, U-NII-2C	S01_AH03	2022-07-25	Passed	Passed
WLAN ax 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-25	Passed	Passed
WLAN n 20 MHz MIMO, high, U-NII-2A	S01_AH03	2022-07-26	Passed	Passed
WLAN n 20 MHz MIMO, high, U-NII-2C	S01_AH03	2022-07-26	Passed	Passed
WLAN n 20 MHz MIMO, low, U-NII-2A	S01_AH03	2022-07-26	Passed	Passed
WLAN n 20 MHz MIMO, low, U-NII-2C	S01_AH03	2022-07-26	Passed	Passed
WLAN n 20 MHz MIMO, mid, U-NII-2A	S01_AH03	2022-07-26	Passed	Passed
WLAN n 20 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-07-26	Passed	Passed
WLAN n 20 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-07-26	Passed	Passed
WLAN n 20 MHz, high, U-NII-2A	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, high, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN n 20 MHz, low, U-NII-2A	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, low, U-NII-2C	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, mid, U-NII-2A	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, mid, U-NII-2C	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-22	Passed	Passed



**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (a) (1), (5)

Peak Power Spectral Density

The measurement was performed according to
ANSI C63.10, chapter 12.5 (SA-3)

Final Result

**Conducted power settings for antenna gain \leq 8.0 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN n 40 MHz MIMO, high, U-NII-2A	S01_AH03	2022-08-01	Passed	Passed
WLAN n 40 MHz MIMO, high, U-NII-2C	S01_AH03	2022-08-01	Passed	Passed
WLAN n 40 MHz MIMO, low, U-NII-2A	S01_AH03	2022-08-01	Passed	Passed
WLAN n 40 MHz MIMO, low, U-NII-2C	S01_AH03	2022-08-01	Passed	Passed
WLAN n 40 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-08-01	Passed	Passed
WLAN n 40 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-08-01	Passed	Passed
WLAN n 40 MHz, high, U-NII-2A	S01_AH03	2022-07-22	Passed	Passed
WLAN n 40 MHz, high, U-NII-2C	S01_AH03	2022-07-22	Passed	Passed
WLAN n 40 MHz, low, U-NII-2A	S01_AH03	2022-07-22	Passed	Passed
WLAN n 40 MHz, low, U-NII-2C	S01_AH03	2022-07-22	Passed	Passed
WLAN n 40 MHz, mid, U-NII-2C	S01_AH03	2022-07-22	Passed	Passed
WLAN n 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-22	Passed	Passed

**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (a) (1), (5)

Peak Power Spectral Density

The measurement was performed according to ANSI C63.10, chapter 12.5 (SA-3)

Final Result

**Conducted power settings for antenna gain > 8.0 dBi and ≤ 9.0 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN a DIVERSITY, high, U-NII-2A	S01_AH03	2022-09-08	Passed	Passed
WLAN a DIVERSITY, high, U-NII-2C	S01_AH03	2022-09-08	Passed	Passed
WLAN a DIVERSITY, low, U-NII-2A	S01_AH03	2022-09-08	Passed	Passed
WLAN a DIVERSITY, low, U-NII-2C	S01_AH03	2022-09-08	Passed	Passed
WLAN a DIVERSITY, mid, U-NII-2A	S01_AH03	2022-09-08	Passed	Passed
WLAN a DIVERSITY, mid, U-NII-2C	S01_AH03	2022-09-08	Passed	Passed
WLAN a DIVERSITY, straddle, U-NII-2C/3	S01_AH03	2022-09-08	Passed	Passed
WLAN a, high, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN a, high, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN a, low, U-NII-2A	S01_AJ03	2022-10-17	Passed	Passed
WLAN a, low, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN a, mid, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN a, mid, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN a, straddle, U-NII-2C/3	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 20 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 20 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 20 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 20 MHz MIMO, mid, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 20 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 20 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 20 MHz, high, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, high, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, low, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, low, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, mid, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, mid, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-20	Passed	Passed
WLAN ac 40 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 40 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 40 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 40 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 40 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 40 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-09	Passed	Passed
WLAN ac 40 MHz, high, U-NII-2A	S01_AH03	2022-09-08	Passed	Passed
WLAN ac 40 MHz, high, U-NII-2C	S01_AH03	2022-09-08	Passed	Passed
WLAN ac 40 MHz, low, U-NII-2A	S01_AH03	2022-09-08	Passed	Passed
WLAN ac 40 MHz, low, U-NII-2C	S01_AH03	2022-09-08	Passed	Passed
WLAN ac 40 MHz, mid, U-NII-2C	S01_AH03	2022-09-08	Passed	Passed
WLAN ac 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-09-08	Passed	Passed
WLAN ax 20 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed

**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (a) (1), (5)

Peak Power Spectral Density

The measurement was performed according to ANSI C63.10, chapter 12.5 (SA-3)

Final Result

**Conducted power settings for antenna gain > 8.0 dBi and ≤ 9.0 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN ax 20 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN ax 20 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN ax 20 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN ax 20 MHz MIMO, mid, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN ax 20 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN ax 20 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-09	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, low, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, low, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-2A	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-20	Passed	Passed
WLAN ax 40 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 40 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 40 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 40 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 40 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 40 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 40 MHz, high, U-NII-2A	S01_AH03	2022-09-08	Passed	Passed
WLAN ax 40 MHz, high, U-NII-2C	S01_AH03	2022-09-08	Passed	Passed
WLAN ax 40 MHz, low, U-NII-2A	S01_AH03	2022-09-08	Passed	Passed
WLAN ax 40 MHz, low, U-NII-2C	S01_AH03	2022-09-08	Passed	Passed
WLAN ax 40 MHz, mid, U-NII-2C	S01_AH03	2022-09-08	Passed	Passed
WLAN ax 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-09-08	Passed	Passed
WLAN n 20 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN n 20 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN n 20 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN n 20 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN n 20 MHz MIMO, mid, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN n 20 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN n 20 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-09	Passed	Passed
WLAN n 20 MHz, high, U-NII-2A	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, high, U-NII-2C	S01_AH03	2022-07-20	Passed	Passed
WLAN n 20 MHz, low, U-NII-2A	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, low, U-NII-2C	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, mid, U-NII-2A	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, mid, U-NII-2C	S01_AH03	2022-07-22	Passed	Passed
WLAN n 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-07-22	Passed	Passed
WLAN n 40 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN n 40 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed



**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (a) (1), (5)

Peak Power Spectral Density

The measurement was performed according to ANSI C63.10, chapter 12.5 (SA-3)

Final Result

**Conducted power settings for antenna gain > 8.0 dBi and ≤ 9.0 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN n 40 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-09	Passed	Passed
WLAN n 40 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN n 40 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-09	Passed	Passed
WLAN n 40 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-09	Passed	Passed
WLAN n 40 MHz, high, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, high, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, low, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, low, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, mid, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-09-07	Passed	Passed



**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (a) (1),(5)

Peak Power Spectral Density

The measurement was performed according to ANSI C63.10, chapter 12.5 (SA-3)

Final Result

**Conducted power settings for antenna gain > 9.0 dBi and ≤ 14.2 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN a DIVERSITY, high, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN a DIVERSITY, high, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN a DIVERSITY, low, U-NII-2A	S01_AJ03	2022-10-17	Passed	Passed
WLAN a DIVERSITY, low, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN a DIVERSITY, mid, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN a DIVERSITY, mid, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN a DIVERSITY, straddle, U-NII-2C/3	S01_AH03	2022-09-13	Passed	Passed
WLAN a, high, U-NII-2A	S01_AJ03	2022-10-17	Passed	Passed
WLAN a, high, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN a, low, U-NII-2A	S01_AJ03	2022-10-17	Passed	Passed
WLAN a, low, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN a, mid, U-NII-2A	S01_AJ03	2022-10-17	Passed	Passed
WLAN a, mid, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN a, straddle, U-NII-2C/3	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 20 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN ac 20 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN ac 20 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN ac 20 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN ac 20 MHz MIMO, mid, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN ac 20 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN ac 20 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-12	Passed	Passed
WLAN ac 20 MHz, high, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 20 MHz, high, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 20 MHz, low, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 20 MHz, low, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 20 MHz, mid, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 20 MHz, mid, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 40 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-13	Passed	Passed
WLAN ac 40 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN ac 40 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-13	Passed	Passed
WLAN ac 40 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN ac 40 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN ac 40 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-13	Passed	Passed
WLAN ac 40 MHz, high, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 40 MHz, high, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 40 MHz, low, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 40 MHz, low, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 40 MHz, mid, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ac 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-09-07	Passed	Passed



**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (a) (1),(5)

Peak Power Spectral Density

The measurement was performed according to ANSI C63.10, chapter 12.5 (SA-3)

Final Result

**Conducted power settings for antenna gain > 9.0 dBi and ≤ 14.2 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN ax 20 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 20 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 20 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 20 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 20 MHz MIMO, mid, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 20 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 20 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-12	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 20 MHz, low, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 20 MHz, low, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 40 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-13	Passed	Passed
WLAN ax 40 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN ax 40 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-13	Passed	Passed
WLAN ax 40 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN ax 40 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN ax 40 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-13	Passed	Passed
WLAN ax 40 MHz, high, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 40 MHz, high, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 40 MHz, low, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 40 MHz, low, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 40 MHz, mid, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN ax 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-09-07	Passed	Passed
WLAN n 20 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN n 20 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN n 20 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN n 20 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN n 20 MHz MIMO, mid, U-NII-2A	S01_AH03	2022-09-12	Passed	Passed
WLAN n 20 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-12	Passed	Passed
WLAN n 20 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-12	Passed	Passed
WLAN n 20 MHz, high, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN n 20 MHz, high, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN n 20 MHz, low, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN n 20 MHz, low, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN n 20 MHz, mid, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN n 20 MHz, mid, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN n 20 MHz, straddle, U-NII-2C/3	S01_AH03	2022-09-07	Passed	Passed



**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.31, §15.407 (a) (1),(5)

Peak Power Spectral Density

The measurement was performed according to ANSI C63.10, chapter 12.5 (SA-3)

Final Result

**Conducted power settings for antenna gain > 9.0 dBi and ≤ 14.2 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN n 40 MHz MIMO, high, U-NII-2A	S01_AH03	2022-09-13	Passed	Passed
WLAN n 40 MHz MIMO, high, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN n 40 MHz MIMO, low, U-NII-2A	S01_AH03	2022-09-13	Passed	Passed
WLAN n 40 MHz MIMO, low, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN n 40 MHz MIMO, mid, U-NII-2C	S01_AH03	2022-09-13	Passed	Passed
WLAN n 40 MHz MIMO, straddle, U-NII-2C/3	S01_AH03	2022-09-13	Passed	Passed
WLAN n 40 MHz, high, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, high, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, low, U-NII-2A	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, low, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, mid, U-NII-2C	S01_AH03	2022-09-07	Passed	Passed
WLAN n 40 MHz, straddle, U-NII-2C/3	S01_AH03	2022-09-07	Passed	Passed



**47 CFR CHAPTER I FCC PART 15 Subpart E
§15.407**

**FCC §15.407 (b), (1),(2),(3),(4); FCC
§15.205, §15.209, §15.407 (b)
(5),(6)**

Undesirable Emissions; General Field Strength Limits
The measurement was performed according to
ANSI C63.10, chapter 6.4, 6.5, 6.6.5

Final Result

**Conducted power settings for antenna gain ≤ 8.0 dBi
(see chapter 4.6)**

OP-Mode

Radio Technology, Operating Frequency, Measurement
range, Subband

Setup	Date	FCC	IC
S04_AJ03	2022-06-17	Passed	Passed
S04_AJ03	2022-06-19	Passed	Passed
S04_AJ03	2022-07-25	Passed	Passed
S04_AJ03	2022-06-17	Passed	Passed
S04_AJ03	2022-06-18	Passed	Passed
S04_AJ03	2022-06-17	Passed	Passed
S04_AJ03	2022-06-17	Passed	Passed
S04_AJ03	2022-08-12	Passed	Passed
S04_AJ03	2022-08-12	Passed	Passed
S04_AJ03	2022-07-25	Passed	Passed
S04_AJ03	2022-07-25	Passed	Passed
S04_AJ03	2022-06-19	Passed	Passed
S04_AJ03	2022-06-18	Passed	Passed
S04_AJ03	2022-06-19	Passed	Passed
S04_AJ03	2022-06-19	Passed	Passed
S04_AJ03	2022-06-19	Passed	Passed
S04_AJ03	2022-06-19	Passed	Passed
S04_AJ03	2022-06-19	Passed	Passed
S04_AJ03	2022-06-27	Passed	Passed
S04_AJ03	2022-06-19	Passed	Passed
S04_AJ03	2022-06-27	Passed	Passed
S04_AJ03	2022-06-28	Passed	Passed
S04_AJ03	2022-06-27	Passed	Passed
S04_AJ03	2022-06-18	Passed	Passed
S04_AJ03	2022-06-18	Passed	Passed
S04_AJ03	2022-06-19	Passed	Passed
S04_AJ03	2022-06-17	Passed	Passed
S04_AJ03	2022-06-18	Passed	Passed
S04_AJ03	2022-06-17	Passed	Passed



47 CFR CHAPTER I FCC PART 15 Subpart E §15.407

FCC §15.407 (b), (1),(2),(3),(4); FCC §15.205, §15.209, §15.407 (b) (5),(6)

Undesirable Emissions; General Field Strength Limits
The measurement was performed according to ANSI C63.10, chapter 6.4, 6.5, 6.6.5

Final Result

Conducted power settings for antenna gain ≤ 8.0 dBi (see chapter 4.6)

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Measurement range, Subband				
WLAN n 20 MHz MIMO, mid, 1GHz - 26GHz, U-NII-2C Remark: Only Harmonics, up to 18 GHz	S04_AJ03	2022-06-18	Passed	Passed
WLAN n 40 MHz MIMO, high, 1GHz - 26GHz, U-NII-2A Remark: Only Harmonics, up to 18 GHz	S04_AJ03	2022-06-30	Passed	Passed
WLAN n 40 MHz MIMO, high, 1GHz - 26GHz, U-NII-2C Remark: Only Harmonics, up to 18 GHz	S04_AJ03	2022-06-30	Passed	Passed
WLAN n 40 MHz MIMO, high, 26GHz - 40GHz, U-NII-2A Remark: 18 dbm 6MN	S04_AJ03	2022-08-12	Passed	Passed
WLAN n 40 MHz MIMO, high, 30MHz - 1GHz, U-NII-2A	S04_AJ03	2022-07-25	Passed	Passed
WLAN n 40 MHz MIMO, high, 9kHz - 30MHz, U-NII-2C	S04_AJ03	2022-07-25	Passed	Passed
WLAN n 40 MHz MIMO, low, 1GHz - 26GHz, U-NII-2A Remark: Only Harmonics, up to 18 GHz	S04_AJ03	2022-06-30	Passed	Passed
WLAN n 40 MHz MIMO, low, 1GHz - 26GHz, U-NII-2C Remark: Only Harmonics, up to 18 GHz	S04_AJ03	2022-06-30	Passed	Passed
WLAN n 40 MHz MIMO, mid, 1GHz - 26GHz, U-NII-2C Remark: Only Harmonics, up to 18 GHz	S04_AJ03	2022-07-01	Passed	Passed
WLAN n 40 MHz MIMO, mid, 26GHz - 40GHz, U-NII-2C	S04_AJ03	2022-08-12	Passed	Passed
WLAN n 40 MHz MIMO, mid, 30MHz - 1GHz, U-NII-2C	S04_AJ03	2022-07-25	Passed	Passed

47 CFR CHAPTER I FCC PART 15 Subpart E §15.407

FCC §15.407 (b), (1), (2), (3), (4); FCC §15.205, §15.209, §15.407 (b) (5), (6)

Undesirable Emissions; General Field Strength Limits
The measurement was performed according to ANSI C63.10, chapter 6.4, 6.5, 6.6.5

Final Result

Conducted power settings for antenna gain > 8.0 dBi and ≤ 9.0 dBi (see chapter 4.6)

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Measurement range, Subband				
WLAN a, high, 1GHz - 26GHz, U-NII-2A Remark: 20 dBm, 6DC, Only Harmonics	S03_AJ03	2022-07-28	Passed	Passed
WLAN a, high, 1GHz - 26GHz, U-NII-2C Remark: 20 dBm, 6DC, Only Harmonics	S03_AJ03	2022-07-28	Passed	Passed
WLAN a, low, 1GHz - 26GHz, U-NII-2A Remark: 20 dBm, 6DC, Only Harmonics	S03_AJ03	2022-07-28	Passed	Passed
WLAN a, low, 1GHz - 26GHz, U-NII-2C Remark: 20 dBm, 6DC, Only Harmonics	S03_AJ03	2022-07-28	Passed	Passed
WLAN a, mid, 1GHz - 26GHz, U-NII-2A Remark: 20 dBm, 6DC, Only Harmonics	S03_AJ03	2022-07-28	Passed	Passed
WLAN a, mid, 1GHz - 26GHz, U-NII-2C Remark: 20 dBm, 6DC, Only Harmonics	S03_AJ03	2022-07-28	Passed	Passed

**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

**FCC §15.407 (b), (1),(2),(3),(4); FCC
§15.205, §15.209, §15.407 (b) (5),(6)**

Undesirable Emissions; General Field Strength Limits

The measurement was performed according to ANSI C63.10, chapter 6.4, 6.5, 6.6.5

Final Result

**Conducted power settings for antenna gain > 9.0 dBi and ≤ 14.2 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Measurement range, Subband				
WLAN a DIVERSITY, high, 1GHz - 26GHz, U-NII-2A Remark: 12 dBm 8DK / Diversity	S05_AH03	2022-08-02	Passed	Passed
WLAN a DIVERSITY, high, 1GHz - 26GHz, U-NII-2C Remark: 12 dBm 8DK / Diversity	S05_AH03	2022-08-02	Passed	Passed
WLAN a DIVERSITY, low, 1GHz - 26GHz, U-NII-2A Remark: 18 dBm 8DK / Diversity	S05_AH03	2022-08-02	Passed	Passed
WLAN a DIVERSITY, low, 1GHz - 26GHz, U-NII-2C Remark: 12 dBm 8DK / Diversity	S05_AH03	2022-08-02	Passed	Passed
WLAN a DIVERSITY, mid, 1GHz - 26GHz, U-NII-2A Remark: 12 dBm 8DK / Diversity	S05_AH03	2022-08-02	Passed	Passed
WLAN a DIVERSITY, mid, 1GHz - 26GHz, U-NII-2C Remark: 12 dBm 8DK / Diversity	S05_AH03	2022-08-02	Passed	Passed

**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.407 (b), (1),(2),(3),(4)

Band Edge

The measurement was performed according to ANSI C63.10, chapter 6.6.5

Final Result

**Conducted power settings for antenna gain ≤ 8.0 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN a, DIVERSITY, high, U-NII-2A	S04_AJ03	2022-06-17	Passed	Passed
WLAN a, DIVERSITY, high, U-NII-2C	S04_AJ03	2022-06-18	Passed	Passed
WLAN a, DIVERSITY, low, U-NII-2C	S04_AJ03	2022-06-17	Passed	Passed
WLAN ac 20 MHz MIMO, high, U-NII-2A	S04_AJ03	2022-06-17	Passed	Passed
WLAN ac 20 MHz MIMO, high, U-NII-2C	S04_AJ03	2022-06-17	Passed	Passed
WLAN ac 20 MHz MIMO, low, U-NII-2C	S04_AJ03	2022-06-17	Passed	Passed
WLAN ac 40 MHz MIMO, high, U-NII-2C	S04_AJ03	2022-07-20	Passed	Passed
WLAN ac 40 MHz, high, U-NII-2A	S04_AJ03	2022-07-01	Passed	Passed
WLAN ac 40 MHz, high, U-NII-2C	S04_AJ03	2022-07-20	Passed	Passed
WLAN ac 40 MHz, low, U-NII-2C	S04_AJ03	2022-07-01	Passed	Passed
WLAN ax 20 MHz MIMO, high, U-NII-2A	S04_AJ03	2022-06-27	Passed	Passed
WLAN ax 20 MHz MIMO, high, U-NII-2C	S04_AJ03	2022-06-27	Passed	Passed
WLAN ax 20 MHz MIMO, low, U-NII-2C	S04_AJ03	2022-06-27	Passed	Passed
WLAN ax 40 MHz MIMO, high, U-NII-2C	S04_AJ03	2022-07-20	Passed	Passed

**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.407 (b), (1),(2),(3),(4)

Band Edge

The measurement was performed according to ANSI C63.10, chapter 6.6.5

Final Result

**Conducted power settings for antenna gain ≤ 8.0 dBi
(see chapter 4.6)**

OP-Mode Radio Technology, Operating Frequency, Subband	Setup	Date	FCC	IC
WLAN ax 40 MHz, high, U-NII-2A	S04_AJ03	2022-07-20	Passed	Passed
WLAN ax 40 MHz, high, U-NII-2C	S04_AJ03	2022-07-20	Passed	Passed
WLAN ax 40 MHz, low, U-NII-2C	S04_AJ03	2022-07-20	Passed	Passed
WLAN n 20 MHz MIMO, high, U-NII-2A	S04_AJ03	2022-06-17	Passed	Passed
WLAN n 20 MHz MIMO, high, U-NII-2C	S04_AJ03	2022-06-17	Passed	Passed
WLAN n 20 MHz MIMO, low, U-NII-2C	S04_AJ03	2022-06-17	Passed	Passed
WLAN n 40 MHz MIMO, high, U-NII-2A	S04_AJ03	2022-06-30	Passed	Passed
WLAN n 40 MHz MIMO, high, U-NII-2C	S04_AJ03	2022-07-20	Passed	Passed
WLAN n 40 MHz MIMO, low, U-NII-2C	S04_AJ03	2022-06-30	Passed	Passed
WLAN n 40 MHz, high, U-NII-2C	S04_AJ03	2022-07-20	Passed	Passed

**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.407 (b), (1), (2),(3),(4)

Band Edge

The measurement was performed according to ANSI C63.10, chapter 6.6.5

Final Result

**Conducted power settings for antenna gain > 8.0 dBi and ≤ 9.0 dBi
(see chapter 4.6)**

OP-Mode Radio Technology, Operating Frequency, Subband	Setup	Date	FCC	IC
WLAN a, high, U-NII-2A Remark: 20 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN a, high, U-NII-2C Remark: 20 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN a, low, U-NII-2C Remark: 20 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN ac 20 MHz MIMO, high, U-NII-2A Remark: 17 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN ac 20 MHz MIMO, high, U-NII-2C Remark: 17 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN ac 20 MHz MIMO, low, U-NII-2C Remark: 17 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN ac 20 MHz, high, U-NII-2A Remark: 20 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN ac 20 MHz, high, U-NII-2C Remark: 20 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN ac 20 MHz, low, U-NII-2C Remark: 20 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN ac 40 MHz MIMO, high, U-NII-2A Remark: 16 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN ac 40 MHz MIMO, high, U-NII-2C Remark: 17 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed



**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.407 (b), (1), (2),(3),(4)

Band Edge

The measurement was performed according to ANSI C63.10, chapter 6.6.5

Final Result

**Conducted power settings for antenna gain > 8.0 dBi and ≤ 9.0 dBi
(see chapter 4.6)**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN ac 40 MHz MIMO, low, U-NII-2C Remark: 16 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN ac 40 MHz, high, U-NII-2A Remark: 19 dBm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN ac 40 MHz, high, U-NII-2C Remark: 19 dBm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN ac 40 MHz, low, U-NII-2C Remark: 19 dBm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN ax 20 MHz MIMO, high, U-NII-2A Remark: 17 dBm 6DC	S03_AJ03	2022-08-28	Passed	Passed
WLAN ax 20 MHz MIMO, high, U-NII-2C Remark: 17 dBm 6DC	S03_AJ03	2022-08-28	Passed	Passed
WLAN ax 20 MHz MIMO, low, U-NII-2C Remark: 17 dBm 6DC	S03_AJ03	2022-08-28	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2A Remark: 20 dBm 6DC	S03_AJ03	2022-08-28	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2C Remark: 20 dBm 6DC	S03_AJ03	2022-08-28	Passed	Passed
WLAN ax 20 MHz, low, U-NII-2C Remark: 20 dBm 6DC	S03_AJ03	2022-08-28	Passed	Passed
WLAN ax 40 MHz MIMO, high, U-NII-2A Remark: 16 dBm 6DC	S03_AJ03	2022-08-28	Passed	Passed
WLAN ax 40 MHz MIMO, high, U-NII-2C Remark: 16 dBm 6DC	S03_AJ03	2022-08-28	Passed	Passed
WLAN ax 40 MHz MIMO, low, U-NII-2C Remark: 16 dBm 6DC	S03_AJ03	2022-08-28	Passed	Passed
WLAN ax 40 MHz, high, U-NII-2A Remark: 19 dBm 6DC	S03_AJ03	2022-08-28	Passed	Passed
WLAN ax 40 MHz, high, U-NII-2C Remark: 19 dBm 6DC	S03_AJ03	2022-08-28	Passed	Passed
WLAN ax 40 MHz, low, U-NII-2C Remark: 19 dBm 6DC	S03_AJ03	2022-08-28	Passed	Passed
WLAN n 20 MHz MIMO, high, U-NII-2A Remark: 17 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN n 20 MHz MIMO, high, U-NII-2C Remark: 17 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN n 20 MHz MIMO, low, U-NII-2C Remark: 17 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN n 20 MHz, high, U-NII-2A Remark: 20 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN n 20 MHz, high, U-NII-2C Remark: 20 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN n 20 MHz, low, U-NII-2C Remark: 20 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN n 40 MHz MIMO, high, U-NII-2A Remark: 16 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed

**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.407 (b), (1), (2),(3),(4)

Band Edge

The measurement was performed according to ANSI C63.10, chapter 6.6.5 **Final Result**

**Conducted power settings for antenna gain > 8.0 dBi and ≤ 9.0 dBi
(see chapter 4.6)**

OP-Mode Radio Technology, Operating Frequency, Subband	Setup	Date	FCC	IC
WLAN n 40 MHz MIMO, high, U-NII-2C Remark: 17 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN n 40 MHz MIMO, low, U-NII-2C Remark: 16 dbm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN n 40 MHz, high, U-NII-2A Remark: 19 dBm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN n 40 MHz, high, U-NII-2C Remark: 19 dBm 6DC	S03_AJ03	2022-07-28	Passed	Passed
WLAN n 40 MHz, low, U-NII-2C Remark: 19 dBm 6DC	S03_AJ03	2022-07-28	Passed	Passed

**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.407 (b), (1),(2),(3),(4)

Band Edge

The measurement was performed according to ANSI C63.10, chapter 6.6.5 **Final Result**

**Conducted power settings for antenna gain > 9.0 dBi and ≤ 14.2 dBi
(see chapter 4.6)**

OP-Mode Radio Technology, Operating Frequency, Subband	Setup	Date	FCC	IC
WLAN a DIVERSITY, high, U-NII-2A Remark: 12 dBm 8DK / Diversity	S05_AH03	2022-08-02	Passed	Passed
WLAN a DIVERSITY, high, U-NII-2C Remark: 12 dBm 8DK / Diversity	S05_AH03	2022-08-02	Passed	Passed
WLAN a DIVERSITY, low, U-NII-2C Remark: 12 dBm 8DK / Diversity	S05_AH03	2022-08-02	Passed	Passed
WLAN a, high, U-NII-2A Remark: 15 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN a, high, U-NII-2C Remark: 15 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN a, low, U-NII-2C Remark: 15 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN ac 20 MHz MIMO, high, U-NII-2A Remark: 12 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN ac 20 MHz MIMO, high, U-NII-2C Remark: 12 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN ac 20 MHz MIMO, low, U-NII-2C Remark: 12 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN ac 40 MHz MIMO, high, U-NII-2A Remark: 12 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN ac 40 MHz MIMO, high, U-NII-2C Remark: 12 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN ac 40 MHz MIMO, low, U-NII-2C Remark: 12 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed

**47 CFR CHAPTER I FCC PART 15
Subpart E §15.407**

FCC §15.407 (b), (1),(2),(3),(4)

Band Edge

The measurement was performed according to ANSI C63.10, chapter 6.6.5 **Final Result**

Conducted power settings for antenna gain > 9.0 dBi and ≤ 14.2 dBi (see chapter 4.6)

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN ax 20 MHz MIMO, high, U-NII-2A Remark: 12 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN ax 20 MHz MIMO, high, U-NII-2C Remark: 11 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN ax 20 MHz MIMO, low, U-NII-2C Remark: 12 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN ax 40 MHz MIMO, high, U-NII-2A Remark: 12 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN ax 40 MHz MIMO, high, U-NII-2C Remark: 12 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN ax 40 MHz MIMO, low, U-NII-2C Remark: 10 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN n 20 MHz MIMO, high, U-NII-2A Remark: 12 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN n 20 MHz MIMO, high, U-NII-2C Remark: 12 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN n 20 MHz MIMO, low, U-NII-2C Remark: 12 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN n 40 MHz MIMO, high, U-NII-2A Remark: 12 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN n 40 MHz MIMO, high, U-NII-2C Remark: 12 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed
WLAN n 40 MHz MIMO, low, U-NII-2C Remark: 12 dBm 8DK	S05_AH03	2022-08-02	Passed	Passed

N/A: Not applicable

N/P: Not performed

2 REVISION HISTORY / SIGNATURES

Report version control			
Version	Release date	Change Description	Version validity
initial	2023-04-20	--	valid
--	--	--	--

COMMENT: This report covers only the 5 GHz WLAN bands U-NII 2a and U-NII 2c



(responsible for accreditation scope)
Dipl.-Ing. Daniel Gall



(responsible for testing and report)
Dipl.-Ing. Marco Kullik



7 layers GmbH, Borsigstr. 11
40880 Ratingen, Germany
Phone +49 (0)2102 749 0

3 ADMINISTRATIVE DATA

3.1 TESTING LABORATORY

Company Name: 7layers GmbH
Address: Borsigstr. 11
40880 Ratingen
Germany

The test facility is accredited by the following accreditation organisation:

Laboratory accreditation no: DAKKS D-PL-12140-01-01| -02 | -03
FCC Designation Number: DE0015
FCC Test Firm Registration: 929146
ISED CAB Identifier: DE0007; ISED#: 3699A
Responsible for accreditation scope: Dipl.-Ing. Daniel Gall
Report Template Version: 2022-09-27

3.2 PROJECT DATA

Responsible for testing and report: Dipl.-Ing. Marco Kullik
Employees who performed the tests: documented internally at 7Layers
Date of Report: 2023-04-20
Testing Period: 2022-06-17 to 2023-02-08

3.3 APPLICANT DATA

Company Name: SIEMENS AG
Address: Östliche Rheinbrückenstr. 50
76187 Karlsruhe
Germany
Contact Person: Dr. Malgorzata Janson

3.4 MANUFACTURER DATA

Company Name: SIEMENS AG
Address: 76181 Karlsruhe
Germany
Contact Person: Mr. Kilian Löser

4 TEST OBJECT DATA

4.1 GENERAL EUT DESCRIPTION

Kind of Device product description	Industrial Access Point / Client
Product name	SCALANCE W700 / MSAX
Type	MSAX65-W1-M12-E2
Declared EUT data by the supplier	
Specific product description for the EUT	<p>The MSAX65-W1-M12-E2 device is a wireless LAN access point / client for industrial applications supporting following WLAN modes and frequency bands:</p> <ul style="list-style-type: none"> • 802.11 ax/ac/a/h/n Mode: 5.15 - 5.35 GHz and 5.47 - 5.85 GHz • 802.11 ax/b/g/n Mode: 2400 - 2483.5 MHz <p>2 N connectors are available for usage with external antennas. 2x2 MIMO operation is possible in both bands. Simultaneous operation of the device in both frequency bands is supported. Module may be used either as Master or as Client WLAN device.</p> <p>The device supports 10/100/1000 Mbit/s Ethernet. Additionally, the device features one digital input and one digital output signalling line, a configuration/licensing plug and a sleep timer. Supply power is 24Vdc, also PoE on the ethernet interface is available.</p>
Voltage Type	DC
Voltage Level	24.0 V
Antenna Type	EUT has two permanent 50 Ohm antenna connectors. External antenna(s)
Antenna Gain	<p>For the radiated tests of this test report the EUT was tested with the following antennas:</p> <ul style="list-style-type: none"> • ANT795-6MN, effective gain = 8.0 dBi (in the 5 GHz Band) • ANT795-6DC, effective gain = 9.0 dBi (in the 5 GHz Band) • ANT792-8DN, effective gain = 14.2 dBi (in the 5 GHz Band) <p>For details please see chapter 4.4 & 4.5 of this report.</p>
Tested Modulation Type	WLAN a (6 Mbit): OFDM WLAN n (MCS0): OFDM WLAN ac (MCS0): OFDM WLAN ax (MCS0): OFDM
OFDMA (WLAN AX)	Not supported
Number of Transmit Chains	2
Number of Receive Chains	2
Type of TX / RX Chains	symmetrical
Nominal Bandwidth	20 MHz, 40 MHz, 80 MHz (only sub-bands 1 & 3)

EUT ports (connected cables during testing):	<ul style="list-style-type: none"> • Enclosure • DC port: cable length appr. 1.0m • Digital I/O port: cable length 2.0m (terminated with DIDO box), only for radiated tests • LAN port: cable length (shielded), appr. 3.0m, only for radiated tests • USB C service port: cable length, appr. 2.0m, only for conducted tests • 2 Antenna ports, N-connector, appr. 1.0 / 10 m (depending on the antenna, please see chapter 4.4 & 4.5) & antenna
Tested data rates	WLAN a: 6 Mbit/s WLAN n: MCS0 WLAN ac: MCS0 WLAN ax: MCS0
Special software used for testing	Test commands in command line interface of EUT with connection by USB C or LAN Port of EUT

4.2 EUT MAIN COMPONENTS

Sample Name	Sample Code	Description
EUT ah03	DE1039028ah03	
Sample Parameter	Value	
Serial No.	VPN4200423	
HW Version	02	
SW Version	V02.00.00	
Comment		

Sample Name	Sample Code	Description
EUT aj03	DE1039028aj03	
Sample Parameter	Value	
Serial No.	VPN4200421	
HW Version	02	
SW Version	V02.00.00	
Comment		

NOTE: The short description is used to simplify the identification of the EUT in this test report.

4.3 ANCILLARY EQUIPMENT

For the purposes of this test report, ancillary equipment is defined as equipment which is used in conjunction with the EUT to provide operational and control features to the EUT. It is necessary to configure the system in a typical fashion, as a customer would normally use it. But nevertheless Ancillary Equipment can influence the test results.

Device	Details (Manufacturer, Type Model, OUT Code)	Description
-	-	-

4.4 AUXILIARY EQUIPMENT

For the purposes of this test report, auxiliary equipment is defined as equipment which is used temporarily to enable operational and control features especially used for the tests of the EUT which is not used during normal operation or equipment that is used during the tests in combination with the EUT but is not subject of this test report. It is necessary to configure the system in a typical fashion, as a customer would normally use it. But nevertheless Auxiliary Equipment can influence the test results.

Device	Details (Manufacturer, Type Model, HW, SW, S/N)	Description
AC Adapter 65W RE05	Fujitsu Ltd., AC Adapter 65W RE05:A13-065N3A, -, -, 186907LS04	A13-065N3A
AUX55	Siemens, -, -, -, -	DEBUG BOX CLP
Laptop RE05	Fujitsu Ltd., Laptop RE05: Lifebook U758, -, -, DSAL009811	Lifebook U758
AUX102	Siemens, ANT795-6DC, -, -,	9 dBi Antenna
AUX103	Siemens, ANT795-6DC, -, -,	9 dBi Antenna
AUX104	Siemens, ANT795-6MN, -, -,	8 dBi Antenna
AUX105	Siemens, ANT795-6MN, -, -,	8 dBi Antenna
AUX106	Siemens, ANT793-8DK, -, -,	23 dBi Antenna
AUX14	, , -, - ,	RF-Cable (1m, n-connector)
AUX15	, , -, - ,	RF-Cable (1m, n-connector)
AUX16	, , -, - ,	RF-Cable (10m, n-connector), 8.8 dB attenuation
AUX17	, , -, - ,	RF-Cable (10m, n-connector), 8.8 dB attenuation

4.5 EUT SETUPS

This chapter describes the combination of EUTs and equipment used for testing. The rationale for selecting the EUTs, ancillary and auxiliary equipment and interconnecting cables, is to test a representative configuration meeting the requirements of the referenced standards.

Setup	Combination of EUTs	Description and Rationale
S01_AH03	EUT ah03, AUX55, AC Adapter 65W RE05, Laptop RE05	Setup for Conducted Tests
S01_AJ03	EUT aj03, AUX55, AC Adapter 65W RE05, Laptop RE05	Setup for Conducted Tests
S04_AJ03	EUT aj01, AUX14, AUX104, AUX105, AUX15,	Setup for Radiated Tests
S05_AJ03	EUT aj02, AUX16, AUX17, AUX106,	Setup for Radiated Tests
S03_AJ03	EUT aj02, AUX14, AUX103, AUX102, AUX15,	Setup for Radiated Tests
S03_AH03	EUT aj01, AUX14, AUX103, AUX102, AUX15,	Setup for Radiated Tests
S05_AH03	EUT aj01, AUX16, AUX17, AUX106,	Setup for Radiated Tests

- The setup S03_AJ03 has an effective gain of 9 dBi.
- The setup S04_AJ03 has an effective gain of 8 dBi.
- The setup S05_AH03 has an effective gain of 14.2 dBi.

4.6 OPERATING MODES / TEST CHANNELS / DUTY CYCLE

This chapter describes the operating modes of the EUTs used for testing.

For antenna gain ≤ 8 dBi:

U-NII-Subband 1 5150 - 5250 MHz			U-NII-Subband 2A 5250 - 5350 MHz			U-NII-Subband 2C 5470 - 5725 MHz			U-NII-Subband 3 5725 - 5850 MHz			Nom. BW
low	mid	high	low	mid	high	low	mid	high	low	mid	high	20 MHz
-	-	-	52	60	64	100	116	140/144 ¹⁾	149	157	165	Ch.-No.
-	-	-	5260	5300	5320-	5500	5580	5700/5720	5745	5785	5825	MHz
-	-	-	20	20	20	20	20	20	-	-	-	Power SISO per chain
-	-	-										
-	-	-	18	18	18	18	18	18	-	-	-	Power MIMO per chain
-	-	-										

low	mid	high							low	mid	high	40 MHz
-	-	-	54	-	62	102	110	134/142 ¹⁾	-	-	-	Ch.-No.
-	-	-	5270	-	5310	5510	5550	5670/5710	-	-	-	MHz
-	-	-	20	-	20	20	20	20	-	-	-	Power SISO per chain
-	-	-										
-	-	-	18	-	18	18	18	18	-	-	-	Power MIMO per chain
-	-	-										

For antenna gain > 8 dBi - ≤ 9 dBi:

U-NII-Subband 1 5150 - 5250 MHz			U-NII-Subband 2A 5250 - 5350 MHz			U-NII-Subband 2C 5470 - 5725 MHz			U-NII-Subband 3 5725 - 5850 MHz			Nom. BW
low	mid	high	low	mid	high	low	mid	high	low	mid	high	20 MHz
-	-	-	52	60	64	100	116	140/144 ¹⁾	149	157	165	Ch.-No.
-	-	-	5260	5300	5320-	5500	5580	5700/5720	5745	5785	5825	MHz
-	-	-	20	20	20	20	20	20	-	-	-	Power SISO per chain
-	-	-										
-	-	-	17	17	17	17	17	17	-	-	-	Power MIMO per chain
-	-	-										

low	mid	high							low	mid	high	40 MHz
-	-	-	54	-	62	102	110	134/142 ¹⁾	-	-	-	Ch.-No.
-	-	-	5270	-	5310	5510	5550	5670/5710	-	-	-	MHz
-	-	-	19	-	19	19	19	19	-	-	-	Power SISO per chain
-	-	-										
-	-	-	16	-	16	16	16	16	-	-	-	Power MIMO per chain
-	-	-										

For antenna gain > 9 dBi - ≤ 14.2 dBi:

U-NII-Subband 1 5150 - 5250 MHz			U-NII-Subband 2A 5250 - 5350 MHz			U-NII-Subband 2C 5470 - 5725 MHz			U-NII-Subband 3 5725 - 5850 MHz			Nom. BW
low	mid	high	low	mid	high	low	mid	high	low	mid	high	20 MHz
-	-	-	52	60	64	100	116	140/144 ¹⁾	149	157	165	Ch.-No.
-	-	-	5260	5300	5320-	5500	5580	5700/5720	5745	5785	5825	MHz
-	-	-	15	15	15	15	15	15	-	-	-	Power SISO per chain
-	-	-										
-	-	-	12	12	12	12	12	12	-	-	-	Power MIMO per chain
-	-	-										

low	mid	high							low	mid	high	40 MHz
-	-	-	54	-	62	102	110	134/142 ¹⁾	-	-	-	Ch.-No.
-	-	-	5270	-	5310	5510	5550	5670/5710	-	-	-	MHz
-	-	-	12	-	12	11	11	11	-	-	-	Power SISO per chain
-	-	-	12	-	12	11	11	11	-	-	-	Power MIMO per chain

- 1) Channels 144, 142 and 138 are straddle channels. Relevant high channels for upper Band Edge of band 2C are CH.140, CH. 134 and Ch 122.

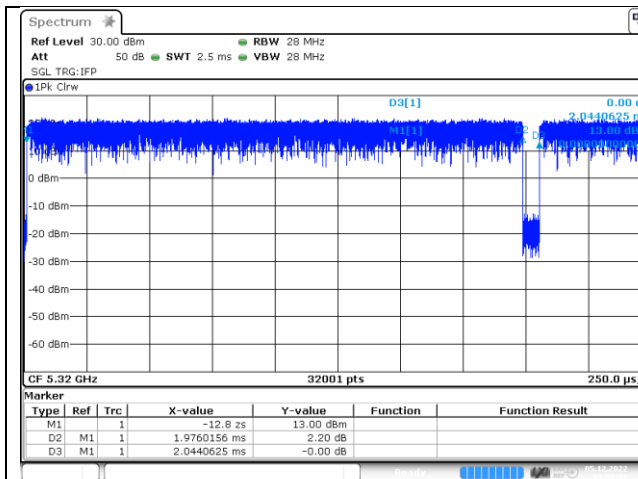
Note:

- All power values in dBm

5 GHz (Sub-bands 2a & 2c)

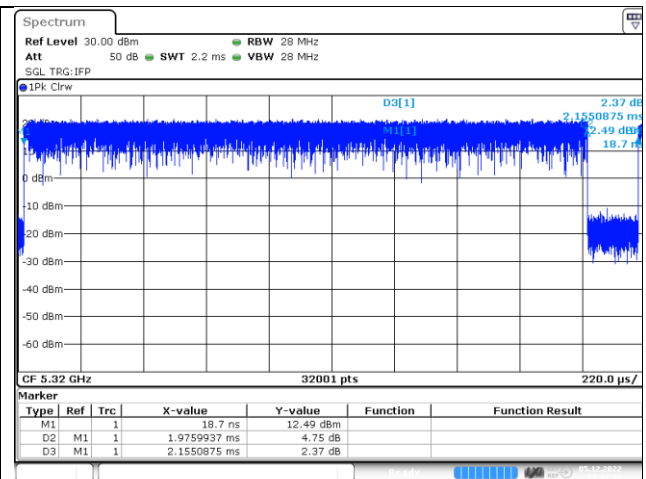
Duty Cycle			
SISO Mode	BW		
	20 [MHz]	40 [MHz]	80 [MHz]
a	0.986	-	-
n	0.921	0.948	-
ac	0.948	0.932	-
ax	0.866	0.866	-
MIMO Mode	BW		
	20 [MHz]	40 [MHz]	80 [MHz]
a	0.917	-	-
n	0.948	0.823	-
ac	0.922	0.941	-
ax	0.940	0.946	-

Correction Factor [dB]			
SISO Mode	BW		
	20 [MHz]	40 [MHz]	80 [MHz]
a	0.1	-	-
n	0.7	0.5	-
ac	0.5	0.6	-
ax	1.2	1.2	-
MIMO Mode	BW		
	20 [MHz]	40 [MHz]	80 [MHz]
a	0.8	-	-
n	0.5	1.7	-
ac	0.7	0.5	-
ax	0.5	0.5	-



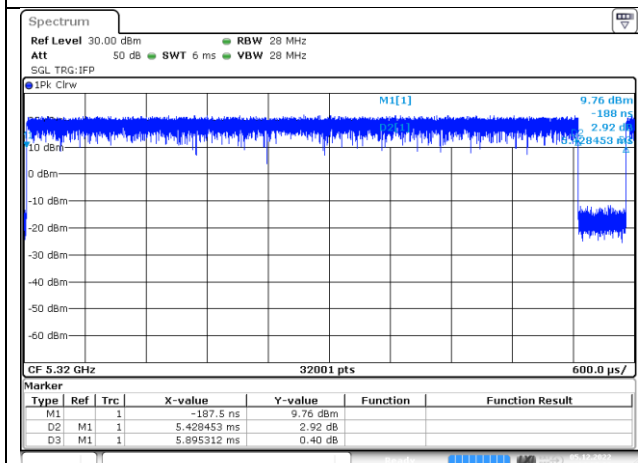
Date: 5 DEC. 2022 13:56:41

a-mode 6 Mbit



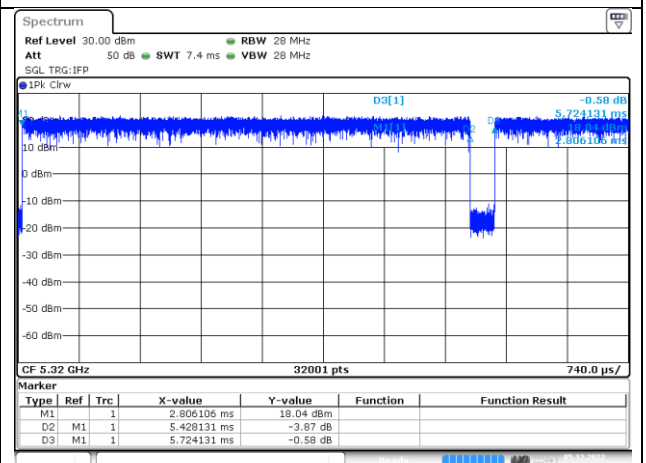
Date: 5 DEC. 2022 14:42:42

a-mode, DIVERSITY, 6 Mbit



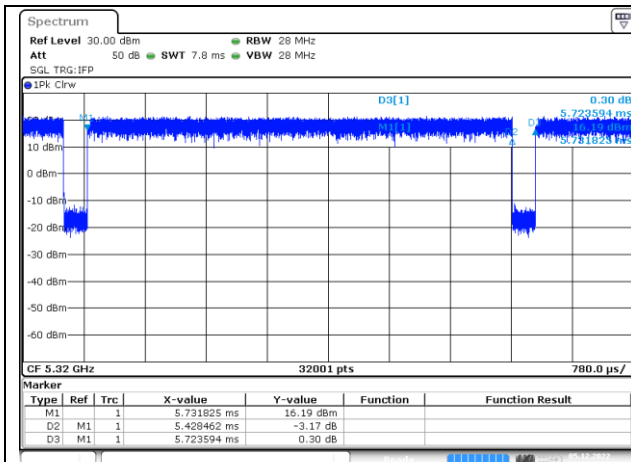
Date: 5 DEC. 2022 14:07:33

n-mode 20 MHz, MCS0



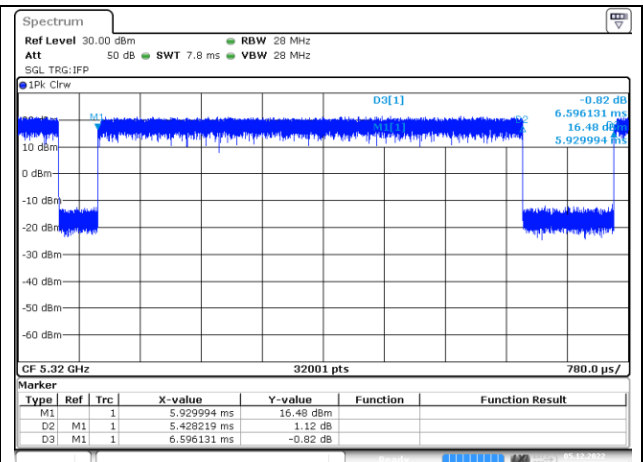
Date: 5 DEC. 2022 15:00:42

n-mode 20 MHz, MCS0, MIMO



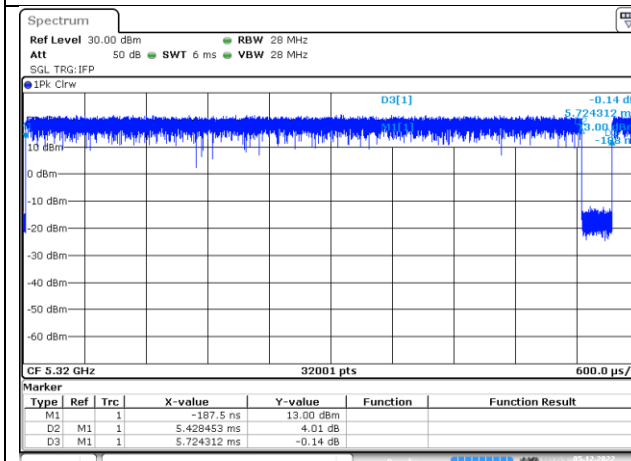
Date: 5 DEC.2022 15:50:05

n-mode 40 MHz, MCS0



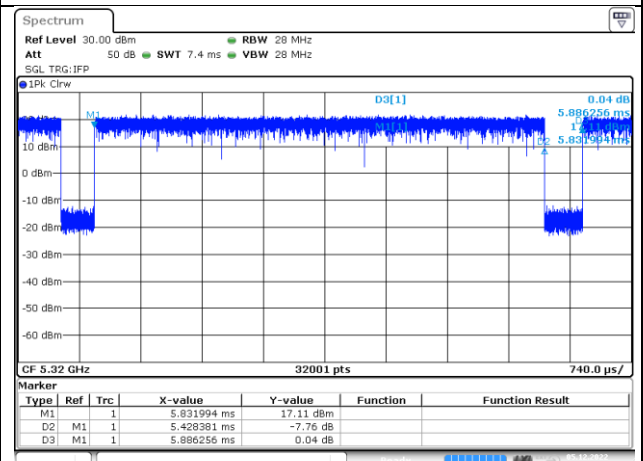
Date: 5 DEC.2022 15:30:47

n-mode 40 MHz, MCS0, MIMO



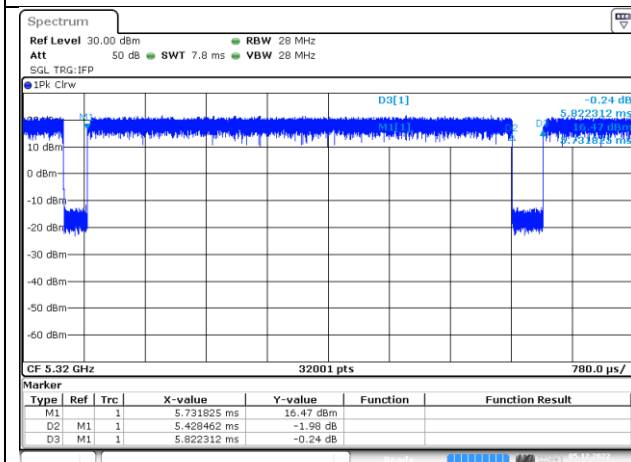
Date: 5 DEC.2022 14:15:55

ac-mode 20 MHz, MCS0



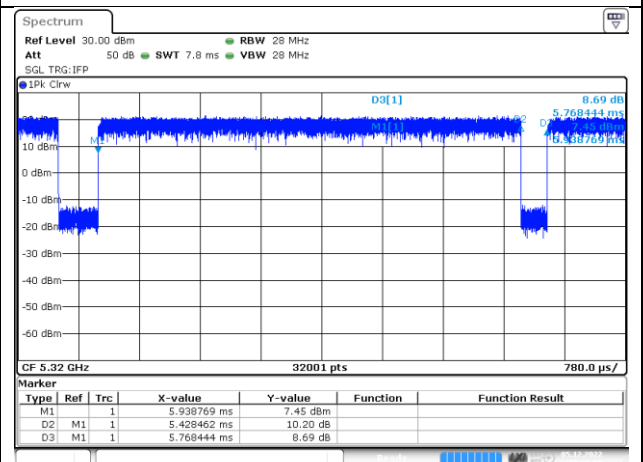
Date: 5 DEC.2022 15:06:08

ac-mode 20 MHz, MCS0, MIMO



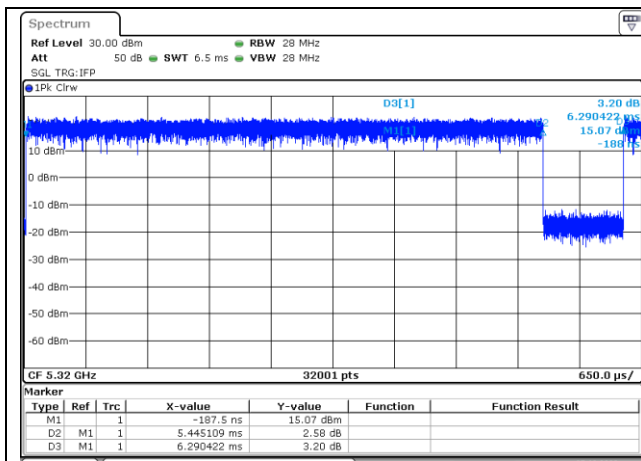
Date: 5 DEC.2022 16:04:23

ac-mode 40 MHz, MCS0



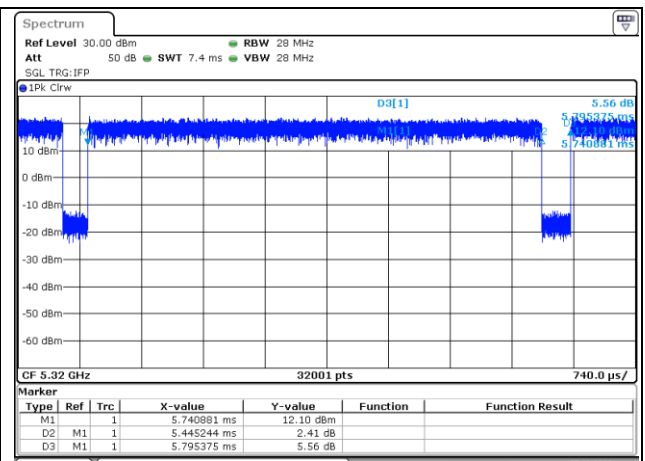
Date: 5 DEC.2022 15:36:06

ac-mode 40 MHz, MCS0, MIMO



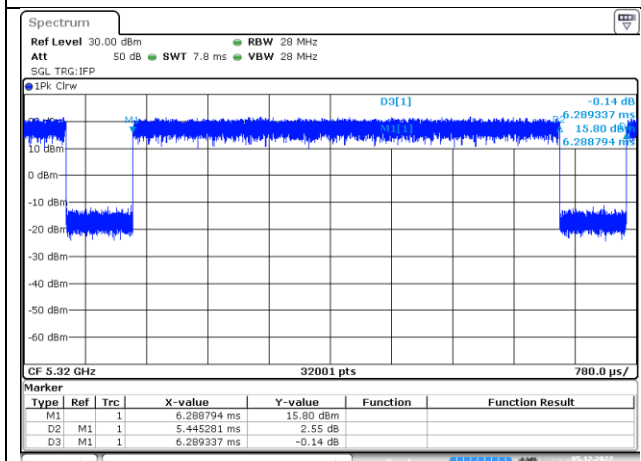
Date: 5 DEC.2022 14:21:52

ax-mode 20 MHz, MCS0



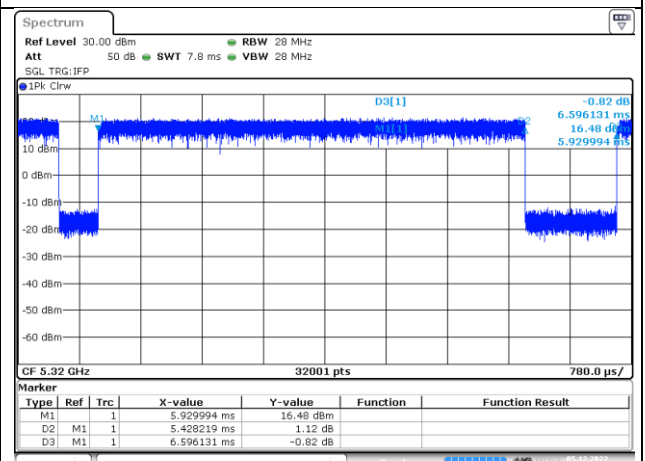
Date: 5 DEC.2022 15:08:49

ax-mode 20 MHz, MCS0, MIMO



Date: 5 DEC.2022 16:12:14

ax-mode 40 MHz, MCS0



Date: 5 DEC.2022 15:30:47

ax-mode 40 MHz, MCS0, MIMO

4.7 PRODUCT LABELLING

4.7.1 FCC ID LABEL

Please refer to the documentation of the applicant.

4.7.2 LOCATION OF THE LABEL ON THE EUT

Please refer to the documentation of the applicant.

5 TEST RESULTS

5.1 26 DB BANDWIDTH

Standard **FCC Part 15 Subpart E**

The test was performed according to:
ANSI C63.10, chapter 12.4.1

5.1.1 TEST DESCRIPTION

The Equipment Under Test (EUT) was set up to perform the occupied bandwidth measurements.

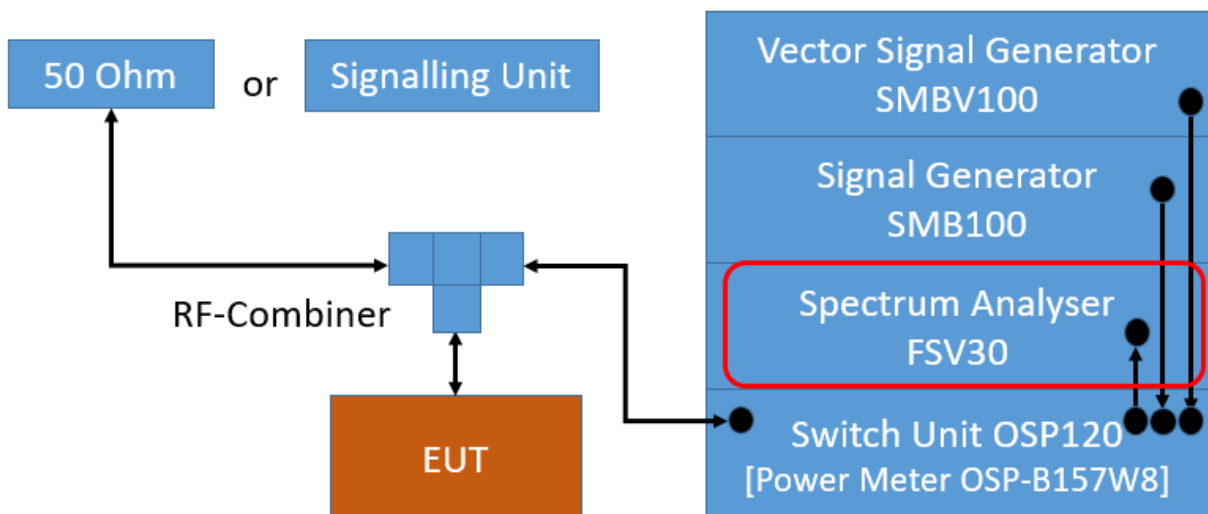
The reference level is the level of the highest amplitude signal observed from the transmitter at either the fundamental frequency or first-order modulation products in all typical modes of operation, including the unmodulated carrier, even if atypical.

The results recorded were measured with the modulation which produce the worst-case (widest) emission bandwidth.

The EUT was connected to the test system as described in the block diagram below. The complete attenuation of the measurement path is known and considered.

Analyzer settings:

- Resolution Bandwidth (RBW): initially approx. 1 % of nominal emission bandwidth
- Video Bandwidth (VBW): > RBW
- Span: 40 / 80 / 160 / 320 MHz (for 20 / 40 / 80 / 160 MHz nominal bandwidth)
- Trace: Maxhold
- Sweeps: Until the trace is stable
- Sweeptime: Auto
- Detector: Peak



TS8997; Occupied Channel Bandwidth 6 dB / 26 dB / 99 %

5.1.2 TEST REQUIREMENTS / LIMITS

FCC Part 15, Subpart E

There exist no applicable limits. The test was performed to determine the limits for the "Maximum Conducted Output Power" and DFS test cases.

Therefore no result was applied.

5.1.3 TEST PROTOCOL

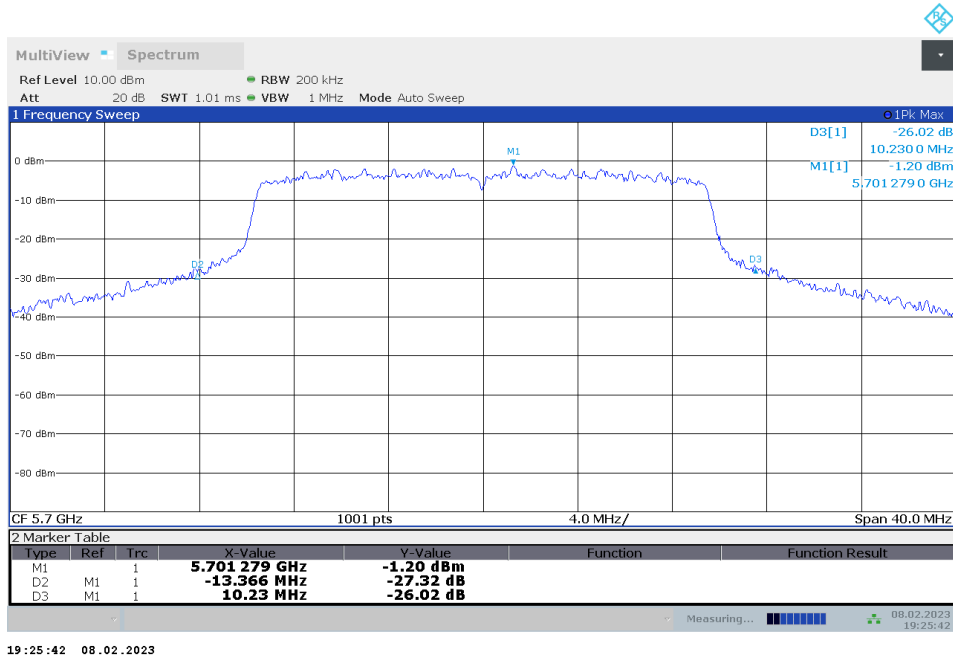
Ambient temperature: 22 – 26 °C
 Air Pressure: 991 – 1023 hPa
 Humidity: 37 – 57 %

Radio Technology	Operating Frequency	Subband	26 dB Bandwidth [MHz]
WLAN a	low	U-NII-2A	20.2
WLAN a	mid	U-NII-2A	20.4
WLAN a	high	U-NII-2A	20.2
WLAN a	low	U-NII-2C	20.2
WLAN a	mid	U-NII-2C	20.5
WLAN a	high	U-NII-2C	22.5
WLAN a	straddle	U-NII-2C/3	22.0
WLAN n 20 MHz	low	U-NII-2A	21.4
WLAN n 20 MHz	mid	U-NII-2A	21.2
WLAN n 20 MHz	high	U-NII-2A	21.1
WLAN n 20 MHz	low	U-NII-2C	21.1
WLAN n 20 MHz	mid	U-NII-2C	21.0
WLAN n 20 MHz	high	U-NII-2C	22.8
WLAN n 20 MHz	straddle	U-NII-2C/3	22.9
WLAN n 40 MHz	low	U-NII-2A	41.1
WLAN n 40 MHz	high	U-NII-2A	41.0
WLAN n 40 MHz	low	U-NII-2C	41.3
WLAN n 40 MHz	mid	U-NII-2C	42.3
WLAN n 40 MHz	high	U-NII-2C	80.5
WLAN n 40 MHz	straddle	U-NII-2C/3	71.5
WLAN ac 20 MHz	low	U-NII-2A	21.3
WLAN ac 20 MHz	mid	U-NII-2A	21.2
WLAN ac 20 MHz	high	U-NII-2A	21.2
WLAN ac 20 MHz	low	U-NII-2C	21.1
WLAN ac 20 MHz	mid	U-NII-2C	21.3
WLAN ac 20 MHz	high	U-NII-2C	23.3
WLAN ac 20 MHz	straddle	U-NII-2C/3	22.6
WLAN ac 40 MHz	low	U-NII-2A	40.8
WLAN ac 40 MHz	high	U-NII-2A	41.0
WLAN ac 40 MHz	low	U-NII-2C	41.4
WLAN ac 40 MHz	mid	U-NII-2C	42.0
WLAN ac 40 MHz	high	U-NII-2C	82.4
WLAN ac 40 MHz	straddle	U-NII-2C/3	71.4
WLAN ax 20 MHz	low	U-NII-2A	22.1
WLAN ax 20 MHz	mid	U-NII-2A	22.1
WLAN ax 20 MHz	high	U-NII-2A	22.2
WLAN ax 20 MHz	low	U-NII-2C	21.8
WLAN ax 20 MHz	mid	U-NII-2C	21.9
WLAN ax 20 MHz	high	U-NII-2C	23.6
WLAN ax 20 MHz	straddle	U-NII-2C/3	22.7
WLAN ax 40 MHz	low	U-NII-2A	41.3
WLAN ax 40 MHz	high	U-NII-2A	41.6
WLAN ax 40 MHz	low	U-NII-2C	41.7
WLAN ax 40 MHz	mid	U-NII-2C	41.9
WLAN ax 40 MHz	high	U-NII-2C	76.7
WLAN ax 40 MHz	straddle	U-NII-2C/3	66.0

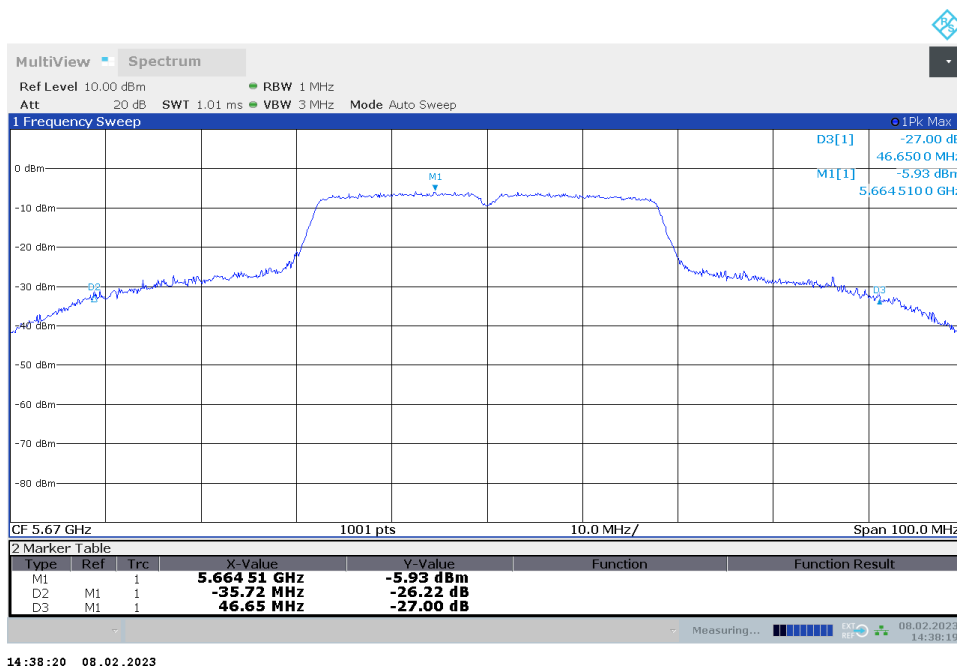
Remark: Please see next sub-clause for the measurement plot.

5.1.4 MEASUREMENT PLOT (EXAMPLE PLOT, SHOWING WORST CASE, IF APPLICABLE)

Radio Technology = WLAN ax 20 MHz, Operating Frequency = high, Subband = U-NII-2C (S01_AJ03)



Radio Technology = WLAN ac 40 MHz, Operating Frequency = high, Subband = U-NII-2C (S01_AJ03)



5.1.5 TEST EQUIPMENT USED

- R&S TS8997

5.2 99 % BANDWIDTH

Standard **FCC Part 15 Subpart E**

The test was performed according to:

ANSI C63.10, chapter 12.4.2 (6.9.3)

5.2.1 TEST DESCRIPTION

The Equipment Under Test (EUT) was set up to perform the occupied bandwidth measurements.

The reference level is the level of the highest amplitude signal observed from the transmitter at either the fundamental frequency or first-order modulation products in all typical modes of operation, including the unmodulated carrier, even if atypical.

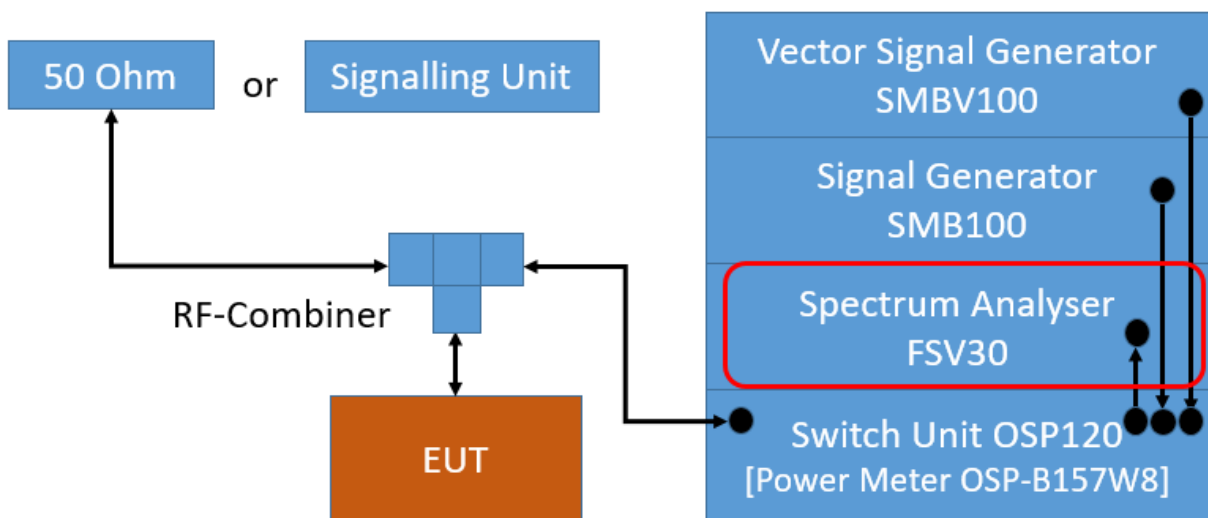
The results recorded were measured with the modulation which produce the worst-case (widest) emission bandwidth.

The EUT was connected to the test system as described in the block diagram below. The complete attenuation of the measurement path is known and considered.

Analyzer settings:

- Resolution Bandwidth (RBW): approx. $\geq 1\%$ of the span, but not below
- Video Bandwidth (VBW): ≥ 3 times the RBW
- Span: 40 / 80 / 160 / 320 MHz (for 20 / 40 / 80 / 160 MHz nominal bandwidth)
- Trace: Maxhold
- Sweeps: Until the trace is stable
- Sweep time: Auto
- Detector: Peak

The 99 % measurement function of the spectrum analyser function was used to determine the 99 % bandwidth.



TS8997; Occupied Channel Bandwidth 6 dB / 26 dB / 99 %

5.2.2 TEST REQUIREMENTS / LIMITS

No applicable limit.

The test was performed to determine the limits for the “Maximum Conducted Output Power” and DFS test cases.

5.2.3 TEST PROTOCOL

Ambient temperature: 22 – 26 °C

Air Pressure: 991 – 1023 hPa

Humidity: 37 – 57 %

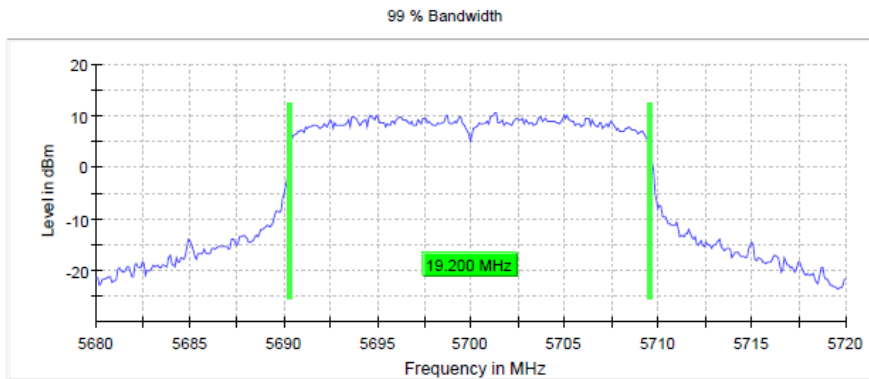
Radio Technology	Operating Frequency	Subband	99% Bandwidth [MHz]
WLAN a	low	U-NII-2A	16.4
WLAN a	mid	U-NII-2A	16.4
WLAN a	high	U-NII-2A	16.4
WLAN a	low	U-NII-2C	16.4
WLAN a	mid	U-NII-2C	16.4
WLAN a	high	U-NII-2C	17.0
WLAN a	straddle	U-NII-2C/3	16.7
WLAN n 20 MHz	low	U-NII-2A	17.6
WLAN n 20 MHz	mid	U-NII-2A	17.6
WLAN n 20 MHz	high	U-NII-2A	17.6
WLAN n 20 MHz	low	U-NII-2C	17.6
WLAN n 20 MHz	mid	U-NII-2C	17.6
WLAN n 20 MHz	high	U-NII-2C	18.0
WLAN n 20 MHz	straddle	U-NII-2C/3	17.8
WLAN n 40 MHz	low	U-NII-2A	36.3
WLAN n 40 MHz	high	U-NII-2A	36.3
WLAN n 40 MHz	low	U-NII-2C	36.3
WLAN n 40 MHz	mid	U-NII-2C	36.3
WLAN n 40 MHz	high	U-NII-2C	37.4
WLAN n 40 MHz	straddle	U-NII-2C/3	36.6
WLAN ac 20 MHz	low	U-NII-2A	17.6
WLAN ac 20 MHz	mid	U-NII-2A	17.6
WLAN ac 20 MHz	high	U-NII-2A	17.6
WLAN ac 20 MHz	low	U-NII-2C	17.6
WLAN ac 20 MHz	mid	U-NII-2C	17.6
WLAN ac 20 MHz	high	U-NII-2C	17.9
WLAN ac 20 MHz	straddle	U-NII-2C/3	17.8
WLAN ac 40 MHz	low	U-NII-2A	36.3
WLAN ac 40 MHz	high	U-NII-2A	36.3
WLAN ac 40 MHz	low	U-NII-2C	36.3
WLAN ac 40 MHz	mid	U-NII-2C	36.3
WLAN ac 40 MHz	high	U-NII-2C	38.2
WLAN ac 40 MHz	straddle	U-NII-2C/3	36.6
WLAN ax 20 MHz	low	U-NII-2A	18.9
WLAN ax 20 MHz	mid	U-NII-2A	19.0
WLAN ax 20 MHz	high	U-NII-2A	19.0
WLAN ax 20 MHz	low	U-NII-2C	19.0
WLAN ax 20 MHz	mid	U-NII-2C	19.0
WLAN ax 20 MHz	high	U-NII-2C	19.2
WLAN ax 20 MHz	straddle	U-NII-2C/3	19.0
WLAN ax 40 MHz	low	U-NII-2A	37.8
WLAN ax 40 MHz	high	U-NII-2A	37.8
WLAN ax 40 MHz	low	U-NII-2C	37.8
WLAN ax 40 MHz	mid	U-NII-2C	37.8
WLAN ax 40 MHz	high	U-NII-2C	38.4
WLAN ax 40 MHz	straddle	U-NII-2C/3	38.0

Remark: Please see next sub-clause for the measurement plot.

5.2.4 MEASUREMENT PLOT (EXAMPLE PLOT, SHOWING WORST CASE, IF APPLICABLE)

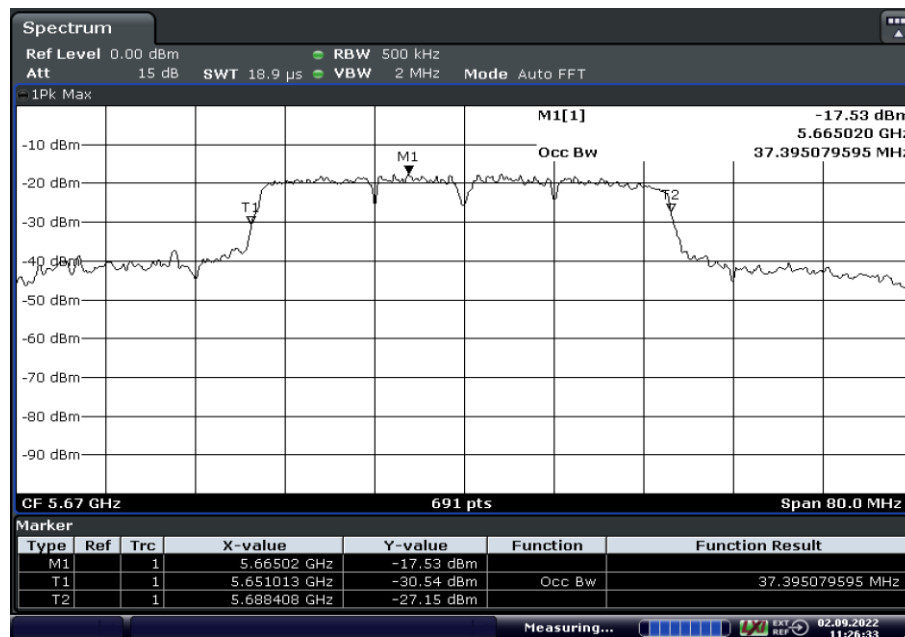
Radio Technology = WLAN ax 20 MHz, Operating Frequency = high, Subband = U-NII-2C (S01_AH03)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)	Result
5700.000000	19.200000	--	--	5690.350000	5709.550000	PASS



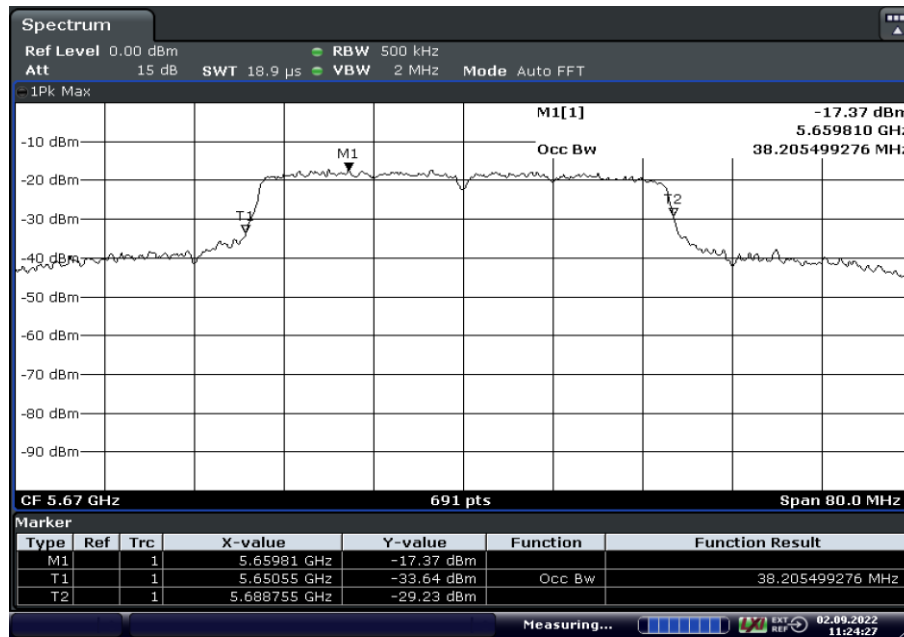
Setting	Instrument Value
Start Frequency	5.68000 GHz
Stop Frequency	5.72000 GHz
Span	40.000 MHz
RBW	200.000 kHz
VBW	1.000 MHz
SweepPoints	400
SweepTime	1.000 ms
Reference Level	0.000 dBm
Attenuation	10.000 dB
Detector	MaxPeak
SweepCount	200
Filter	3 dB
Trace Mode	Max Hold
SweepType	Sweep
Preamp	off
Stablemode	Trace
Stablevalue	0.30 dB
Run	126 / max. 150
Stable	5 / 5
Max Stable Difference	0.07 dB

Radio Technology = WLAN ax 40 MHz, Operating Frequency = high, Subband = U-NII-2C (S01_AJ03)



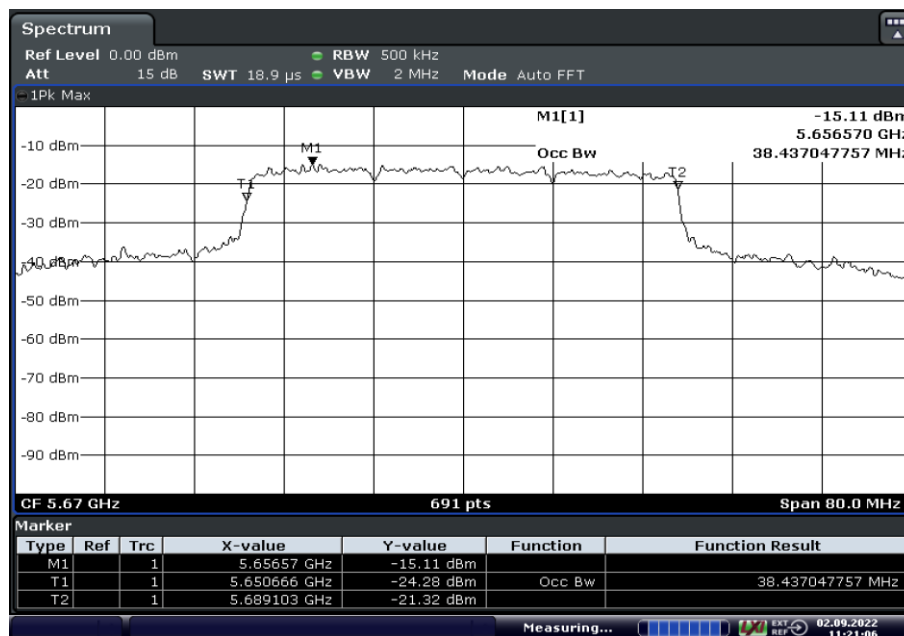
Date: 2.SEP.2022 11:26:34

Radio Technology = WLAN ac 40 MHz, Operating Frequency = high, Subband = U-NII-2C (S01_AJ03)



Date: 2.SEP.2022 11:24:27

Radio Technology = WLAN ax 40 MHz, Operating Frequency = high, Subband = U-NII-2C (S01_AJ03)



Date: 2.SEP.2022 11:21:07

5.2.5 TEST EQUIPMENT USED

- R&S TS8997

5.3 6 DB BANDWIDTH

Standard **FCC Part 15 Subpart E**

The test was performed according to:
ANSI C63.10, chapter 6.9.2

5.3.1 TEST DESCRIPTION

The Equipment Under Test (EUT) was setup in a shielded room to perform the occupied bandwidth measurements.

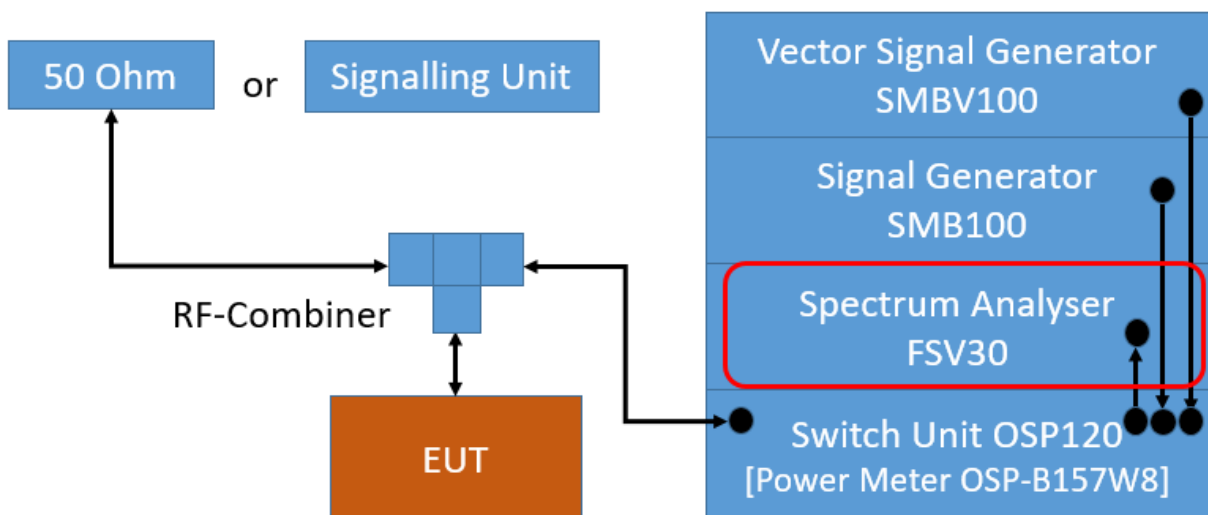
The reference level is the level of the highest amplitude signal observed from the transmitter at either the fundamental frequency or first-order modulation products in all typical modes of operation, including the unmodulated carrier, even if atypical.

The results recorded were measured with the modulation which produce the worst-case (smallest) emission bandwidth.

The EUT was connected to the test system as described in the block diagram below. The complete attenuation of the measurement path is known and considered.

Analyzer settings:

- Resolution Bandwidth (RBW): 100 kHz
- Video Bandwidth (VBW): 300 kHz
- Span: 40 / 80 / 160 / 320 MHz (for 20 / 40 / 80 / 160 MHz nominal bandwidth))
- Trace: Maxhold
- Sweeps: Until the trace is stable
- Sweptime: Auto
- Detector: Peak



TS8997; Occupied Channel Bandwidth 6 dB / 26 dB / 99 %

5.3.2 TEST REQUIREMENTS / LIMITS

FCC Part 15, Subpart E, §15.407 (e)

Within the 5.725-5.850 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.3.3 TEST PROTOCOL

Ambient temperature: 25 °C
 Air Pressure: 999 hPa
 Humidity: 45 %

Radio Technology	Operating Frequency	6 dB Bandwidth [MHz]	Limit [MHz]	Margin [MHz]	Min. 6 dB Frequency [MHz]	Max. 6 dB Frequency [MHz]
WLAN a	straddle	3.13	0.5	2.63	5711.78	5728.13
WLAN n 20 MHz	straddle	3.38	0.5	2.88	5711.43	5728.38
WLAN n 40 MHz	straddle	3.13	0.5	2.63	5691.73	5728.13
WLAN ac 20 MHz	straddle	3.43	0.5	2.93	5711.53	5728.43
WLAN ac 40 MHz	straddle	4.88	0.5	4.38	5689.38	5729.88
WLAN ax 20 MHz	straddle	4.18	0.5	3.68	5710.83	5729.18
WLAN ax 40 MHz	straddle	3.93	0.5	3.43	5690.93	5728.93

Remark: Please see next sub-clause for the measurement plot.

5.3.4 MEASUREMENT PLOT (EXAMPLE PLOT, SHOWING WORST CASE, IF APPLICABLE)

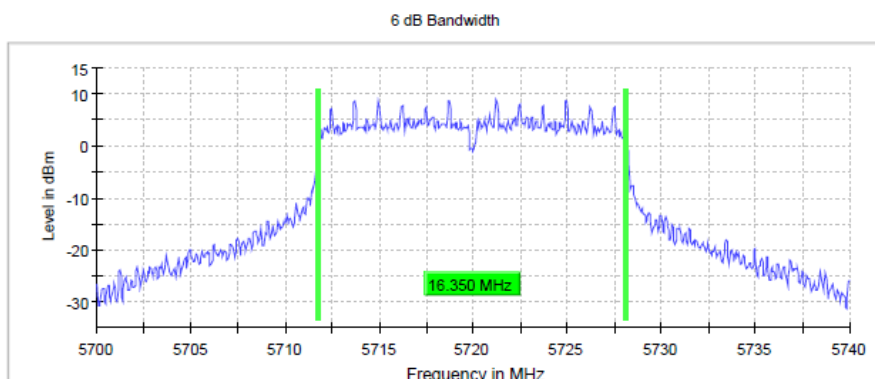
Radio Technology = WLAN a, UNII- 2C/3, Operating Frequency = straddle
 (S01_AH01)

DUT Frequency (MHz)	Bandwidth (MHz)	Bandwidth U-NII 2C (MHz)	Bandwidth U-NII 3 (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)
5720.000000	16.350000	13.225000	3.125000	--	--	5711.775000

(continuation of the "6 dB Bandwidth" table from column 7 ...)

DUT Frequency (MHz)	Band Edge Right (MHz)	Max Level (dBm)	Result
5720.000000	5728.125000	8.9	PASS

Setting	Instrument Value
Start Frequency	5.70000 GHz
Stop Frequency	5.74000 GHz
Span	40.000 MHz
RBW	100.000 kHz
VBW	300.000 kHz
SweepPoints	800
Sweeptime	1.040 ms
Reference Level	0.000 dBm
Attenuation	10.000 dB
Detector	MaxPeak
SweepCount	200
Filter	3 dB
Trace Mode	Max Hold
Sweeptype	Sweep
Preamp	off
Stablemode	Trace
Stablevalue	0.30 dB
Run	70 / max. 150
Stable	5 / 5
Max Stable Difference	0.00 dB



5.4 MAXIMUM CONDUCTED OUTPUT POWER

Standard **FCC Part 15 Subpart E**

The test was performed according to:

ANSI C63.10, chapter 12.3.3.2

5.4.1 TEST DESCRIPTION

The Equipment Under Test (EUT) was set up to perform the output power measurements. The results recorded were measured with the modulation which produces the worst-case (highest) output power

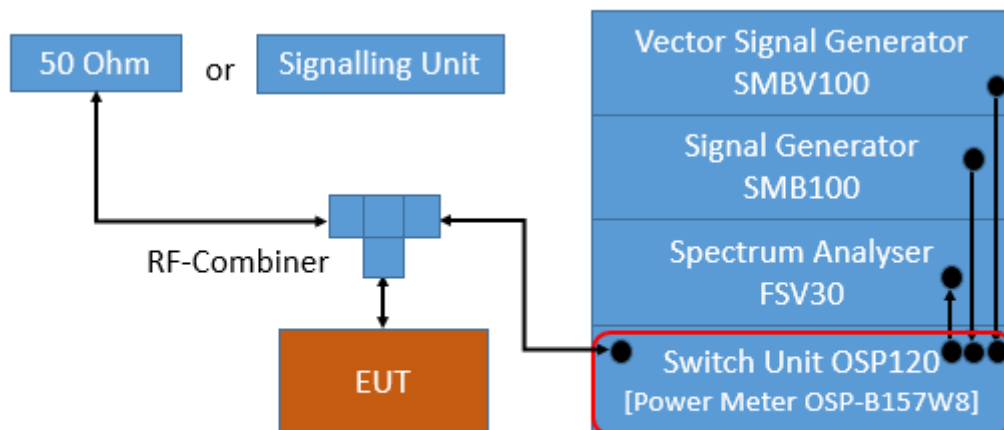
For U-NII bands 1, 2A, 2C, 3:

The EUT was connected to the test system as described in the block diagram below. The complete attenuation of the measurement path is known and considered.

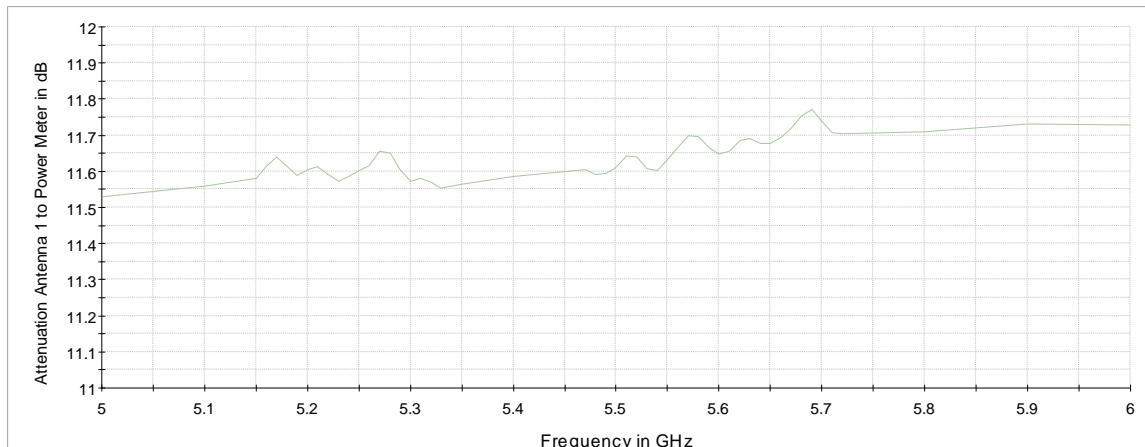
The OSP-B157W is a gated RF average power meter with a signal bandwidth > 300 MHz.

Note:

The measurement was performed according FCC Public Note "Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E, 789033 D02", method **PM-G**.



TS8997; Maximum Conducted Output Power



Attenuation of measurement path

For U-NII bands 5,6,7,8:

The EUT was connected to the test system as described in the block diagram below. The complete attenuation of the measurement path is known and considered.

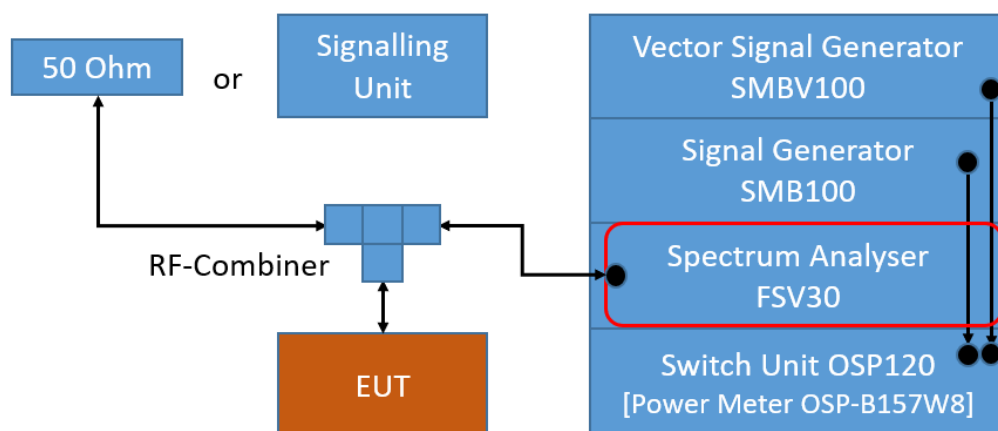
Analyzer settings:

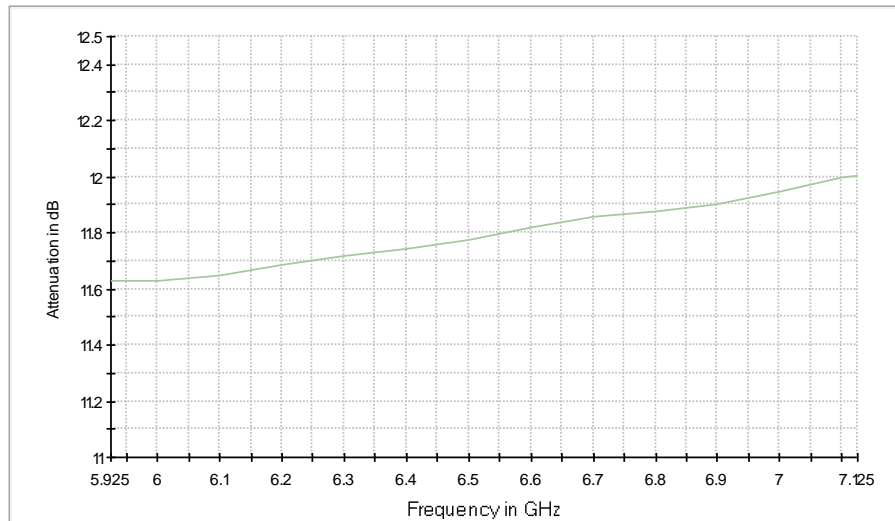
- Resolution Bandwidth (RBW): 1 MHz
- Video Bandwidth (VBW): 3 MHz
- Trace: Average, RMS power averaging mode
- Sweeps: at least 100
- Sweeptime: Auto
- Detector: RMS
- Trigger: free run (DC >98 %) or gated mode (DC < 98 %)

See worst case result plots for details

Note:

The measurement was performed according FCC Public Note "Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E, 789033 D02", method **SA-1**.





Attenuation of measurement path

5.4.2 TEST REQUIREMENTS / LIMITS

A) FCC

FCC Part 15, Subpart E, §15.407 (a) (1) (i): Outdoor access point:

For systems using digital modulation techniques in the 5.15 – 5.25 GHz bands:

Limit: 1 W (30 dBm) provided the maximum antenna gain does not exceed 6 dBi.

The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

§15.407 (a) (1) (ii): Indoor access point:

Limit: 1 W (30 dBm) provided the maximum antenna gain does not exceed 6 dBi.

§15.407 (a) (1) (iii): Fixed point-to-point access points:

Limit: 1 W (30 dBm) provided the maximum antenna gain does not exceed 23 dBi.

§15.407 (a) (1) (iv): Client devices:

Limit: 250 mW (24 dBm) provided the maximum antenna gain does not exceed 6 dBi.

FCC Part 15, Subpart E, §15.407 (a) (2)

For systems using digital modulation techniques in the 5.25 – 5.35 GHz and 5.47 – 5.725 GHz bands:

Limit: 250 mW (24 dBm) or 11 dBm + 10 log (26 dB bandwidth/MHz) whatever is the lesser.

FCC Part 15, Subpart E, §15.407 (a) (3):

For systems using digital modulation techniques in the 5.725 – 5.850 GHz bands:

Limit: 1 W (30 dBm) provided the maximum antenna gain does not exceed 6 dBi. The antenna gain limitation is not applicable for fixed point-to-point devices.

FCC Part 15, Subpart E, §15.407 (a) (4):

For a standard power access point and fixed client devices in the 5.925 – 6.425 GHz and 6.525 – 6.875 GHz bands:

Limit: 4 W (36 dBm) e.i.r.p.

For outdoor devices, the maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

FCC Part 15, Subpart E, §15.407 (a) (5):

For an indoor access point in the 5.925 – 7.125 GHz bands:

Limit: 1 W (30 dBm)e.i.r.p.

FCC Part 15, Subpart E, §15.407 (a) (6):

For a subordinate device operating under an indoor access point in the 5.925 – 7.125 GHz bands:

Limit: 1 W (30 dBm)e.i.r.p.

FCC Part 15, Subpart E, §15.407 (a) (7):

For a client device, except for fixed client devices, operating under standard power access point in the 5.925-6.425 GHz and 6.525-6.875 GHz bands:

Limit: 1 W (30 dBm)e.i.r.p.

The client device must limit its power to no more than 6 dB below its associated standard power access point's authorized transmit power.

FCC Part 15, Subpart E, §15.407 (a) (8):

For client devices operating under the control of an indoor access point in the 5.925 – 7.125 GHz bands:

Limit: 250 mW (24 dBm)e.i.r.p.

FCC Part 15, Subpart E, §15.407 (a) (11):

The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

B) IC

Different frequency bands and limits apply, as compared to the FCC requirements.

All frequency bands: B is the 99% emission bandwidth in MHz.

RSS-247, 6.2.1.1, Band 5150-5250 MHz, indoor operation only, except for OEM devices installed by vehicle manufacturers:

Limits:

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10}B$, dBm, whichever is less. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW. (e.i.r.p.)

Other devices: 200 mW (23 dBm) or $10 + 10 \log_{10}B$ [dBm], whichever power is less.

RSS-247, 6.2.2.1, Band 5250-5350 MHz:

Limits:

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10}B$, dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

Devices, other devices than installed in vehicles:

Maximum conducted Power: 250 mW (24 dBm) or $11 + 10 \log_{10} B$ [dBm], whichever power is less.

e.i.r.p.: 1.0 W (30 dBm) or $17 + 10 \log_{10} B$ [dBm], whichever power is less.

Outdoor fixed devices with a maximum e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below:

i.-13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$

- ii.-13 -0.716 (θ -8) dBW/MHz for $8^\circ \leq \theta < 40^\circ$
- iii.-35.9 -1.22 (θ -40) dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$
- iv.-42 dBW/MHz for $\theta > 45^\circ$

RSS-247, 6.2.3.1, Bands 5470-5600 MHz and 5650-5725 MHz:

Limits:

Maximum conducted Power: 250 mW (24 dBm) or $11 + 10 \log_{10} B$ [dBm], whichever power is less.

e.i.r.p.: 1.0 W (30 dBm) or $17 + 10 \log_{10} B$ [dBm], whichever power is less.

Note: Devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

RSS-247, 6.2.4.1, Band 5725-5850 MHz:

Limits:

Maximum conducted Power: 1 W (30 dBm)

e.i.r.p.: 4 W (36 dBm)

5.4.3 TEST PROTOCOL

- Ambient temperature: 22 – 26 °C
- Air Pressure: 991 – 1023 hPa
- Humidity: 37 – 57 %

Conducted power settings for antenna gain ≤ 8.0 dBi (see chapter 4.6)

WLAN a-Mode; 20 MHz; 6 Mbit/s					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	19.8	27.8	22.0	2.2	23.1	3.3	29.1	1.3
	60	5300	19.3	27.3	22.0	2.7	23.1	3.8	29.1	1.8
	64	5320	19.2	27.2	22.0	2.8	23.1	4.0	29.1	2.0
2C	100	5500	19.2	27.2	22.0	2.8	23.1	3.9	29.1	1.9
	116	5580	18.5	26.5	22.0	3.5	23.1	4.6	29.1	2.6
	140	5700	19.2	27.2	22.0	2.8	23.3	4.1	29.3	2.1
2C/3	144	5720	18.8	26.8	22.0	3.2	23.3	4.5	29.3	2.5

WLAN n-Mode; 20 MHz; MCS0; SISO					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	19.5	27.5	22.0	2.5	23.5	4.0	29.5	2.0
	60	5300	18.9	26.9	22.0	3.1	23.5	4.6	29.5	2.6
	64	5320	18.6	26.6	22.0	3.4	23.5	4.8	29.5	2.8
2C	100	5500	18.7	26.7	22.0	3.3	23.5	4.7	29.5	2.7
	116	5580	17.9	25.9	22.0	4.1	23.5	5.5	29.5	3.5
	140	5700	18.8	26.8	22.0	3.2	23.6	4.7	29.6	2.7
2C/3	144	5720	18.4	26.4	22.0	3.6	23.6	5.2	29.6	3.2

WLAN n-Mode; 40 MHz; MCS0; SISO					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	54	5270	19.9	27.9	22.0	2.1	24.0	4.1	30.0	2.1
	62	5310	19.6	27.6	22.0	2.4	24.0	4.4	30.0	2.4
2C	102	5510	19.8	27.8	22.0	2.2	24.0	4.2	30.0	2.2
	110	5550	19.5	27.5	22.0	2.5	24.0	4.5	30.0	2.5
	134	5670	20.9	28.9	22.0	1.1	24.0	3.1	30.0	1.1
2C/3	142	5710	20.0	28.0	22.0	2.0	24.0	4.0	30.0	2.0

WLAN ac-Mode; 20 MHz; MCS0; SISO					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	19.4	27.4	22.0	2.6	23.5	4.0	29.5	2.0
	60	5300	18.9	26.9	22.0	3.1	23.5	4.5	29.5	2.5
	64	5320	18.7	26.7	22.0	3.3	23.5	4.7	29.5	2.7
2C	100	5500	18.7	26.7	22.0	3.3	23.5	4.7	29.5	2.7
	116	5580	17.9	25.9	22.0	4.1	23.5	5.5	29.5	3.5
	140	5700	18.8	26.8	22.0	3.2	23.5	4.7	29.5	2.7
2C/3	144	5720	18.4	26.4	22.0	3.6	23.5	5.1	29.5	3.1

WLAN ac-Mode; 40 MHz; MCS0; SISO					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	54	5270	20.0	28.0	22.0	2.0	24.0	4.0	30.0	2.0
	62	5310	19.7	27.7	22.0	2.3	24.0	4.3	30.0	2.3
2C	102	5510	19.8	27.8	22.0	2.2	24.0	4.2	30.0	2.2
	110	5550	19.5	27.5	22.0	2.5	24.0	4.5	30.0	2.5
	134	5670	21.0	29.0	22.0	1.0	24.0	3.0	30.0	1.0
2C/3	142	5710	20.0	28.0	22.0	2.0	24.0	4.0	30.0	2.0

WLAN ax-Mode; 20 MHz; MCS0; SISO					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	19.2	27.2	22.0	2.8	23.8	4.5	29.8	2.5
	60	5300	18.7	26.7	22.0	3.3	23.8	5.1	29.8	3.1
	64	5320	18.4	26.4	22.0	3.6	23.8	5.4	29.8	3.4
2C	100	5500	18.1	26.1	22.0	3.9	23.8	5.7	29.8	3.7
	116	5580	17.4	25.4	22.0	4.6	23.8	6.4	29.8	4.4
	140	5700	18.6	26.6	22.0	3.4	23.8	5.2	29.8	3.2
2C/3	144	5720	18.1	26.1	22.0	3.9	23.8	5.7	29.8	3.7

WLAN ax-Mode; 40 MHz; MCS0; SISO					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	54	5270	19.5	27.5	22.0	2.5	24.0	4.5	30.0	2.5
	62	5310	19.2	27.2	22.0	2.8	24.0	4.8	30.0	2.8
2C	102	5510	19.2	27.2	22.0	2.8	24.0	4.8	30.0	2.8
	110	5550	19.0	27.0	22.0	3.0	24.0	5.0	30.0	3.0
	134	5670	20.8	28.8	22.0	1.2	24.0	3.2	30.0	1.2
2C/3	142	5710	19.9	27.9	22.0	2.1	24.0	4.1	30.0	2.1

WLAN a-Mode; 20 MHz; 6 Mbit/s; DIVERSITY					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	52	5260	20.5	28.5	22.0	1.5	17.6	17.4
	60	5300	20.2	28.2	22.0	1.8	17.0	17.4
	64	5320	19.8	27.8	22.0	2.2	17.0	16.5
2C	100	5500	20.1	28.1	22.0	1.9	17.1	17.1
	116	5580	19.4	27.4	22.0	2.6	16.4	16.3
	140	5700	20.1	28.1	22.0	1.9	17.2	16.8
2C/3	144	5720	20.1	28.1	22.0	1.9	16.9	17.3

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	23.1	2.6	29.1	0.6
	60	5300	23.1	2.9	29.1	0.9
	64	5320	23.1	3.4	29.1	1.3
2C	100	5500	23.1	3.0	29.1	1.0
	116	5580	23.1	3.8	29.1	1.7
	140	5700	23.3	3.3	29.3	1.2
2C/3	144	5720	23.3	3.3	29.3	1.2

WLAN n-Mode; 20 MHz; MCS8; MIMO					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	52	5260	20.1	28.1	22.0	1.9	17.3	17.0
	60	5300	19.9	27.9	22.0	2.1	16.7	17.0
	64	5320	19.5	27.5	22.0	2.5	16.7	16.2
2C	100	5500	19.7	27.7	22.0	2.3	16.9	16.6
	116	5580	19.0	27.0	22.0	3.0	16.1	15.8
	140	5700	19.8	27.8	22.0	2.2	17.0	16.6
2C/3	144	5720	19.7	27.7	22.0	2.3	16.5	16.9

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	23.5	3.3	29.5	1.4
	60	5300	23.5	3.6	29.5	1.6
	64	5320	23.5	4.0	29.5	2.0
2C	100	5500	23.5	3.7	29.5	1.8
	116	5580	23.5	4.5	29.5	2.5
	140	5700	23.6	3.8	29.6	1.8
2C/3	144	5720	23.6	3.9	29.6	1.9

WLAN n-Mode; 40 MHz; MCS8; MIMO					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	54	5270	20.7	28.7	22.0	1.3	17.7	17.7
	62	5310	20.6	28.6	22.0	1.4	17.4	17.7
2C	102	5510	20.9	28.9	22.0	1.1	17.8	18.0
	110	5550	20.3	28.3	22.0	1.7	17.5	17.2
	134	5670	21.6	29.6	22.0	0.4	18.8	18.4
2C/3	142	5710	20.6	28.6	22.0	1.4	17.8	17.3

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	54	5270	24.0	3.3	30.0	1.3
	62	5310	24.0	3.4	30.0	1.4
2C	102	5510	24.0	3.1	30.0	1.1
	110	5550	24.0	3.7	30.0	1.7
	134	5670	24.0	2.4	30.0	0.4
2C/3	142	5710	24.0	3.4	30.0	1.4

WLAN ac-Mode; 20 MHz; MCS0; MIMO					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	52	5260	20.2	28.2	22.0	1.8	17.3	17.0
	60	5300	19.9	27.9	22.0	2.1	16.8	17.1
	64	5320	19.5	27.5	22.0	2.5	16.7	16.2
2C	100	5500	19.7	27.7	22.0	2.3	16.7	16.6
	116	5580	19.0	27.0	22.0	3.0	16.0	15.9
	140	5700	19.7	27.7	22.0	2.3	16.9	16.5
2C/3	144	5720	19.7	27.7	22.0	2.3	16.5	16.9

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	23.5	3.3	29.5	1.3
	60	5300	23.5	3.5	29.5	1.6
	64	5320	23.5	4.0	29.5	2.0
2C	100	5500	23.5	3.8	29.5	1.8
	116	5580	23.5	4.5	29.5	2.5
	140	5700	23.5	3.8	29.5	1.8
2C/3	144	5720	23.5	3.8	29.5	1.8

WLAN ac-Mode; 40 MHz; MCS0; MIMO					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	54	5270	20.7	28.7	22.0	1.3	17.8	17.6
	62	5310	20.5	28.5	22.0	1.5	17.4	17.6
2C	102	5510	20.8	28.8	22.0	1.2	17.7	17.8
	110	5550	20.3	28.3	22.0	1.7	17.4	17.0
	134	5670	21.6	29.6	22.0	0.4	18.9	18.3
2C/3	142	5710	20.5	28.5	22.0	1.5	17.8	17.2

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	54	5270	24.0	3.3	30.0	1.3
	62	5310	24.0	3.5	30.0	1.5
2C	102	5510	24.0	3.2	30.0	1.2
	110	5550	24.0	3.7	30.0	1.7
	134	5670	24.0	2.4	30.0	0.4
2C/3	142	5710	24.0	3.5	30.0	1.5

WLAN ax-Mode; 20 MHz; MCS0; MIMO					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	52	5260	19.9	27.9	22.0	2.1	17.0	16.8
	60	5300	19.6	27.6	22.0	2.4	16.4	16.7
	64	5320	19.1	27.1	22.0	2.9	16.3	15.8
2C	100	5500	19.4	27.4	22.0	2.6	16.4	16.3
	116	5580	18.7	26.7	22.0	3.3	15.7	15.7
	140	5700	19.4	27.4	22.0	2.6	16.5	16.2
2C/3	144	5720	19.4	27.4	22.0	2.6	16.1	16.7

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	23.8	3.9	29.8	1.9
	60	5300	23.8	4.2	29.8	2.2
	64	5320	23.8	4.7	29.8	2.7
2C	100	5500	23.8	4.4	29.8	2.4
	116	5580	23.8	5.1	29.8	3.1
	140	5700	23.8	4.5	29.8	2.4
2C/3	144	5720	23.8	4.5	29.8	2.4

WLAN ax-Mode; 40 MHz; MCS0; MIMO					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	54	5270	20.2	28.2	22.0	1.8	17.2	17.1
	62	5310	20.0	28.0	22.0	2.0	17.0	17.0
2C	102	5510	20.3	28.3	22.0	1.7	17.1	17.3
	110	5550	19.7	27.7	22.0	2.3	16.8	16.6
	134	5670	21.1	29.1	22.0	0.9	18.4	17.7
2C/3	142	5710	19.8	27.8	22.0	2.2	17.4	16.7

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	54	5270	24.0	3.8	30.0	1.8
	62	5310	24.0	4.0	30.0	2.0
2C	102	5510	24.0	3.7	30.0	1.7
	110	5550	24.0	4.3	30.0	2.3
	134	5670	24.0	2.9	30.0	0.9
2C/3	142	5710	24.0	4.2	30.0	2.2

**Conducted power settings for antenna gain > 8.0 dBi and ≤ 9.0 dBi
(see chapter 4.6)**

WLAN a-Mode; 20 MHz; 6 Mbit/s					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	19.8	28.8	21.0	1.2	23.1	3.3	29.1	0.3
	60	5300	19.3	28.3	21.0	1.7	23.1	3.8	29.1	0.8
	64	5320	19.2	28.2	21.0	1.8	23.1	4.0	29.1	1.0
2C	100	5500	19.2	28.2	21.0	1.8	23.1	3.9	29.1	0.9
	116	5580	18.5	27.5	21.0	2.5	23.1	4.6	29.1	1.6
	140	5700	19.2	28.2	21.0	1.8	23.3	4.1	29.3	1.1
2C/3	144	5720	18.8	27.8	21.0	2.2	23.3	4.5	29.3	1.5

WLAN n-Mode; 20 MHz; MCS0; SISO					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	19.5	28.5	21.0	1.5	23.5	4.0	29.5	1.0
	60	5300	18.9	27.9	21.0	2.1	23.5	4.6	29.5	1.6
	64	5320	18.6	27.6	21.0	2.4	23.5	4.8	29.5	1.8
2C	100	5500	18.7	27.7	21.0	2.3	23.5	4.7	29.5	1.7
	116	5580	17.9	25.9	21.0	3.1	23.5	5.5	29.5	2.5
	140	5700	18.8	27.8	21.0	2.2	23.6	4.7	29.6	1.7
2C/3	144	5720	18.4	27.4	21.0	2.6	23.6	5.2	29.6	2.2

WLAN n-Mode; 40 MHz; MCS0; SISO					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	54	5270	18.8	27.8	21.0	2.2	24.0	5.2	30.0	2.2
	62	5310	18.5	27.5	21.0	2.5	24.0	5.5	30.0	2.5
2C	102	5510	18.9	27.9	21.0	2.1	24.0	5.1	30.0	2.1
	110	5550	18.6	27.6	21.0	2.4	24.0	5.4	30.0	2.4
	134	5670	19.9	28.9	21.0	1.1	24.0	4.1	30.0	1.1
2C/3	144	5720	19.2	28.2	21.0	1.8	24.0	4.8	30.0	1.8

WLAN ac-Mode; 20 MHz; MCS0; SISO					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	19.4	28.4	21.0	1.6	23.5	4.0	29.5	1.0
	60	5300	18.9	27.9	21.0	2.1	23.5	4.5	29.5	1.5
	64	5320	18.7	27.7	21.0	2.3	23.5	4.7	29.5	1.7
2C	100	5500	18.7	27.7	21.0	2.3	23.5	4.7	29.5	1.7
	116	5580	17.9	26.9	21.0	3.1	23.5	5.5	29.5	2.5
	140	5700	18.8	27.8	21.0	2.2	23.5	4.7	29.5	1.7
2C/3	144	5720	18.4	27.4	21.0	2.6	23.5	5.1	29.5	2.1

WLAN ac-Mode; 40 MHz; MCS0; SISO					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	54	5270	18.8	27.8	21.0	2.2	24.0	5.2	30.0	2.2
	62	5310	18.5	27.5	21.0	2.5	24.0	5.5	30.0	2.5
2C	102	5510	18.8	27.8	21.0	2.2	24.0	5.2	30.0	2.2
	110	5550	18.6	27.6	21.0	2.4	24.0	5.4	30.0	2.4
	134	5670	19.8	28.8	21.0	1.2	24.0	4.2	30.0	1.2
2C/3	142	5710	19.2	28.2	21.0	1.8	24.0	4.8	30.0	1.8

WLAN ax-Mode; 20 MHz; MCS0; SISO					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	19.2	28.2	21.0	1.8	23.8	4.5	29.8	1.5
	60	5300	18.7	27.7	21.0	2.3	23.8	5.1	29.8	2.1
	64	5320	18.4	27.4	21.0	2.6	23.8	5.4	29.8	2.4
2C	100	5500	18.1	27.1	21.0	2.9	23.8	5.7	29.8	2.7
	116	5580	17.4	26.4	21.0	3.6	23.8	6.4	29.8	3.4
	140	5700	18.6	27.6	21.0	2.4	23.8	5.2	29.8	2.2
2C/3	144	5720	18.1	27.1	21.0	2.9	23.8	5.7	29.8	2.7

WLAN ax-Mode; 40 MHz; MCS0; SISO					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	54	5270	18.3	27.3	21.0	2.7	24.0	5.7	30.0	2.7
	62	5310	18.0	27.0	21.0	3.0	24.0	6.0	30.0	3.0
2C	102	5510	18.2	27.2	21.0	2.8	24.0	5.8	30.0	2.8
	110	5550	17.9	26.9	21.0	3.1	24.0	6.1	30.0	3.1
	134	5670	19.4	28.4	21.0	1.6	24.0	4.6	30.0	1.6
2C/3	142	5710	18.8	27.8	21.0	2.2	24.0	5.2	30.0	2.2

WLAN a-Mode; 20 MHz; 6 Mbit/s; DIVERSITY					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	52	5260	19.5	28.5	21.0	1.5	16.6	16.5
	60	5300	19.1	28.1	21.0	1.9	15.9	16.2
	64	5320	18.9	27.9	21.0	2.1	16.2	15.6
2C	100	5500	19.2	28.2	21.0	1.8	16.3	16.0
	116	5580	18.6	27.6	21.0	2.4	15.3	15.9
	140	5700	19.0	28.0	21.0	2.0	16.6	15.4
2C/3	144	5720	18.9	27.9	21.0	2.1	16.1	15.7

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	23.1	3.6	29.1	0.6
	60	5300	23.1	4.1	29.1	1.0
	64	5320	23.1	4.2	29.1	1.2
2C	100	5500	23.1	4.0	29.1	0.9
	116	5580	23.1	4.5	29.1	1.5
	140	5700	23.3	4.3	29.3	1.3
2C/3	144	5720	23.3	4.4	29.3	1.4

WLAN n-Mode; 20 MHz; MCS8; MIMO					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	52	5260	19.4	28.4	21.0	1.6	16.4	16.3
	60	5300	18.9	27.9	21.0	2.1	15.7	16.0
	64	5320	18.7	27.7	21.0	2.3	16.0	15.4
2C	100	5500	18.8	27.8	21.0	2.2	16.0	15.5
	116	5580	18.3	27.3	21.0	2.7	14.9	15.6
	140	5700	18.7	27.7	21.0	2.3	16.2	15.0
2C/3	144	5720	18.5	27.5	21.0	2.5	15.6	15.2

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	23.5	4.1	29.5	1.1
	60	5300	23.5	4.6	29.5	1.6
	64	5320	23.5	4.8	29.5	1.8
2C	100	5500	23.5	4.7	29.5	1.7
	116	5580	23.5	5.1	29.5	2.2
	140	5700	23.6	4.9	29.6	1.9
2C/3	144	5720	23.6	5.1	29.6	2.1

WLAN n-Mode; 40 MHz; MCS8; MIMO					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	54	5270	18.9	27.9	21.0	2.1	16.1	15.6
	62	5310	18.7	27.7	21.0	2.3	15.7	15.6
2C	102	5510	19.0	28.0	21.0	2.0	15.9	16.0
	110	5550	18.5	27.5	21.0	2.5	15.7	15.3
	134	5670	19.5	28.5	21.0	1.5	16.8	16.3
2C/3	142	5710	18.7	27.7	21.0	2.3	16.2	15.2

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	54	5270	24.0	5.1	30.0	2.1
	62	5310	24.0	5.3	30.0	2.3
2C	102	5510	24.0	5.0	30.0	2.0
	110	5550	24.0	5.5	30.0	2.5
	134	5670	24.0	4.5	30.0	1.5
2C/3	142	5710	24.0	5.3	30.0	2.3

WLAN ac-Mode; 20 MHz; MCS0; MIMO					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	52	5260	19.2	28.2	21.0	1.8	16.3	16.2
	60	5300	18.8	27.8	21.0	2.2	15.6	15.9
	64	5320	18.5	27.5	21.0	2.5	15.8	15.2
2C	100	5500	18.8	27.8	21.0	2.2	15.9	15.6
	116	5580	18.3	27.3	21.0	2.7	14.9	15.6
	140	5700	18.7	27.7	21.0	2.3	16.2	15.1
2C/3	144	5720	18.6	27.6	21.0	3.3	15.8	15.3

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	23.5	4.2	29.5	1.3
	60	5300	23.5	4.7	29.5	1.7
	64	5320	23.5	4.9	29.5	2.0
2C	100	5500	23.5	4.7	29.5	1.7
	116	5580	23.5	5.2	29.5	2.2
	140	5700	23.5	4.8	29.5	1.8
2C/3	144	5720	23.5	4.9	29.5	1.9

WLAN ac-Mode; 40 MHz; MCS0; MIMO					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	54	5270	18.9	27.9	21.0	2.1	16.1	15.6
	62	5310	18.7	27.7	21.0	2.3	15.8	15.7
2C	102	5510	19.0	28.0	21.0	2.0	15.8	16.1
	110	5550	18.5	27.5	21.0	2.5	15.7	15.3
	134	5670	19.6	28.6	21.0	1.4	16.8	16.3
2C/3	142	5710	18.7	27.7	21.0	2.3	16.1	15.2

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	54	5270	24.0	5.1	30.0	2.1
	62	5310	24.0	5.3	30.0	2.3
2C	102	5510	24.0	5.0	30.0	2.0
	110	5550	24.0	5.5	30.0	2.5
	134	5670	24.0	4.4	30.0	1.4
2C/3	142	5710	24.0	5.3	30.0	2.3

WLAN ax-Mode; 20 MHz; MCS0; MIMO					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	52	5260	19.1	28.1	21.0	1.9	16.1	16.1
	60	5300	18.6	27.6	21.0	2.4	15.4	15.7
	64	5320	18.4	27.4	21.0	2.6	15.7	15.1
2C	100	5500	18.6	27.6	21.0	2.4	15.8	15.3
	116	5580	18.1	27.1	21.0	2.9	14.7	15.5
	140	5700	18.5	27.5	21.0	2.5	16.0	14.9
2C/3	144	5720	18.4	27.4	21.0	2.6	15.6	15.1

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	23.8	4.6	29.8	1.7
	60	5300	23.8	5.2	29.8	2.2
	64	5320	23.8	5.3	29.8	2.4
2C	100	5500	23.8	5.2	29.8	2.2
	116	5580	23.8	5.7	29.8	2.7
	140	5700	23.8	5.3	29.8	2.3
2C/3	144	5720	23.8	5.4	29.8	2.4

WLAN ax-Mode; 40 MHz; MCS0; MIMO					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	54	5270	18.5	27.5	21.0	2.5	15.3	15.7
	62	5310	18.2	27.2	21.0	2.8	15.3	15.2
2C	102	5510	18.4	27.4	21.0	2.6	15.4	15.5
	110	5550	18.0	27.0	21.0	3.0	15.1	14.8
	134	5670	19.1	28.1	21.0	1.9	16.3	15.9
2C/3	142	5710	18.1	27.1	21.0	2.9	15.5	14.7

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	54	5270	24.0	5.5	30.0	2.5
	62	5310	24.0	5.8	30.0	2.8
2C	102	5510	24.0	5.6	30.0	2.6
	110	5550	24.0	6.0	30.0	3.0
	134	5670	24.0	4.9	30.0	1.9
2C/3	142	5710	24.0	5.9	30.0	2.9

Conducted power settings for antenna gain > 9.0 dBi and ≤ 14.2 dBi (see chapter 4.6)

WLAN a-Mode; 20 MHz; 6 Mbit/s					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	14.7	28.9	15.8	1.1	23.1	8.4	29.1	0.2
	60	5300	14.1	28.3	15.8	1.7	23.1	9.0	29.1	0.8
	64	5320	13.9	28.1	15.8	1.9	23.1	9.2	29.1	1.0
2C	100	5500	14.2	28.4	15.8	1.6	23.1	8.9	29.1	0.7
	116	5580	13.5	27.7	15.8	2.3	23.1	9.6	29.1	1.4
	140	5700	13.8	28.0	15.8	2.0	23.3	9.5	29.3	1.3
2C/3	144	5720	14.3	28.5	15.8	1.5	23.3	9.0	29.3	0.8

WLAN n-Mode; 20 MHz; MCS0; SISO					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	14.6	28.8	15.8	1.2	23.5	8.9	29.5	0.7
	60	5300	14.1	28.3	15.8	1.7	23.5	9.4	29.5	1.2
	64	5320	14.1	28.3	15.8	1.7	23.5	9.3	29.5	1.1
2C	100	5500	14.3	28.5	15.8	1.5	23.5	9.2	29.5	1.0
	116	5580	13.1	27.3	15.8	2.8	23.5	10.4	29.5	2.2
	140	5700	14.2	28.4	15.8	1.6	23.6	9.4	29.6	1.2
2C/3	144	5720	13.8	28.0	15.8	2.0	23.6	9.8	29.6	1.6

WLAN n-Mode; 40 MHz; MCS0; SISO					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	54	5270	11.9	26.1	15.8	3.9	24.0	12.1	30.0	3.9
	62	5310	11.7	25.9	15.8	4.1	24.0	12.3	30.0	4.1
2C	102	5510	10.9	25.1	15.8	4.9	24.0	13.1	30.0	4.9
	110	5550	10.7	24.9	15.8	5.1	24.0	13.3	30.0	5.1
	134	5670	11.9	26.1	15.8	3.9	24.0	12.1	30.0	3.9
2C/3	142	5710	11.1	25.3	15.8	4.7	24.0	12.9	30.0	4.7

WLAN ac-Mode; 20 MHz; MCS0; SISO					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	14.5	28.7	15.8	1.3	23.5	9.0	29.5	0.8
	60	5300	14.1	28.3	15.8	1.7	23.5	9.4	29.5	1.2
	64	5320	14.0	28.2	15.8	1.8	23.5	9.4	29.5	1.2
2C	100	5500	14.2	28.4	15.8	1.6	23.5	9.2	29.5	1.0
	116	5580	13.1	27.3	15.8	2.7	23.5	10.4	29.5	2.2
	140	5700	14.3	28.5	15.8	1.5	23.5	9.2	29.5	1.0
2C/3	144	5720	13.9	28.5	15.8	1.9	23.5	9.6	29.5	1.0

WLAN ac-Mode; 40 MHz; MCS0; SISO					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	54	5270	12.0	26.2	15.8	3.8	24.0	12.0	30.0	3.8
	62	5310	11.8	26.0	15.8	4.0	24.0	12.2	30.0	4.0
2C	102	5510	10.9	25.1	15.8	4.9	24.0	13.1	30.0	4.9
	110	5550	10.7	24.9	15.8	5.1	24.0	13.3	30.0	5.1
	134	5670	11.8	26.0	15.8	4.0	24.0	12.2	30.0	4.0
2C/3	142	5710	11.0	25.2	15.8	4.8	24.0	13.0	30.0	4.8

WLAN ax-Mode; 20 MHz; MCS0; SISO					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	14.4	28.6	15.8	1.4	23.8	9.4	29.8	1.2
	60	5300	14.0	28.2	15.8	1.9	23.8	9.8	29.8	1.6
	64	5320	13.9	28.1	15.8	1.9	23.8	9.9	29.8	1.7
2C	100	5500	14.1	28.3	15.8	1.7	23.8	9.7	29.8	1.5
	116	5580	12.9	27.1	15.8	2.9	23.8	10.9	29.8	2.7
	140	5700	14.1	28.3	15.8	1.7	23.8	9.7	29.8	1.5
2C/3	144	5720	13.7	27.9	15.8	2.1	23.8	10.1	29.8	1.9

WLAN ax-Mode; 40 MHz; MCS0; SISO					FCC		IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	54	5270	11.5	25.7	15.8	4.3	24.0	12.5	30.0	4.3
	62	5310	11.3	25.5	15.8	4.5	24.0	12.7	30.0	4.5
2C	102	5510	10.5	24.7	15.8	5.3	24.0	13.5	30.0	5.3
	110	5550	10.3	24.5	15.8	5.5	24.0	13.7	30.0	5.5
	134	5670	11.5	25.7	15.8	4.3	24.0	12.5	30.0	4.3
2C/3	142	5710	10.7	24.9	15.8	5.1	24.0	13.3	30.0	5.1

WLAN a-Mode; 20 MHz; 6 Mbit/s; DIVERSITY					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	52	5260	14.5	28.7	15.8	1.3	11.6	11.4
	60	5300	14.4	28.6	15.8	1.4	11.1	11.8
	64	5320	14.2	28.4	15.8	1.6	11.4	11.0
2C	100	5500	14.5	28.7	15.8	1.3	11.6	11.4
	116	5580	14.1	28.3	15.8	1.7	10.6	11.5
	140	5700	14.3	28.5	15.8	1.5	11.9	10.7
2C/3	144	5720	14.3	28.5	15.8	1.5	11.4	11.1

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	23.1	8.6	29.1	0.4
	60	5300	23.1	8.7	29.1	0.5
	64	5320	23.1	8.9	29.1	0.7
2C	100	5500	23.1	8.7	29.1	0.4
	116	5580	23.1	9.1	29.1	0.8
	140	5700	23.3	9.0	29.3	0.8
2C/3	144	5720	23.3	9.0	29.3	0.8

WLAN n-Mode; 20 MHz; MCS8; MIMO					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	52	5260	14.5	28.7	15.8	1.3	11.4	11.6
	60	5300	14.1	28.3	15.8	1.7	10.8	11.4
	64	5320	13.9	28.1	15.8	1.9	11.1	10.8
2C	100	5500	14.1	28.3	15.8	1.7	11.2	11.0
	116	5580	13.6	27.8	15.8	2.2	10.1	11.0
	140	5700	13.9	28.1	15.8	1.9	11.5	10.3
2C/3	144	5720	13.9	28.1	15.8	1.9	11.0	10.8

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	23.5	8.9	29.5	0.8
	60	5300	23.5	9.3	29.5	1.2
	64	5320	23.5	9.5	29.5	1.4
2C	100	5500	23.5	9.3	29.5	1.2
	116	5580	23.5	9.9	29.5	1.7
	140	5700	23.6	9.6	29.6	1.5
2C/3	144	5720	23.6	9.6	29.6	1.5

WLAN n-Mode; 40 MHz; MCS8; MIMO					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	54	5270	14.9	29.1	15.8	0.9	11.9	11.9
	62	5310	14.7	28.9	15.8	1.1	11.7	11.8
2C	102	5510	14.0	28.2	15.8	1.8	10.9	11.0
	110	5550	13.5	27.7	15.8	2.3	10.6	10.3
	134	5670	14.6	28.8	15.8	1.2	11.7	11.4
2C/3	142	5710	13.6	27.8	15.8	2.2	10.9	10.2

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	54	5270	24.0	9.1	30.0	0.9
	62	5310	24.0	9.3	30.0	1.1
2C	102	5510	24.0	10.0	30.0	1.8
	110	5550	24.0	10.5	30.0	2.3
	134	5670	24.0	9.4	30.0	1.2
2C/3	142	5710	24.0	10.4	30.0	2.2

WLAN ac-Mode; 20 MHz; MCS0; MIMO					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	52	5260	14.5	28.7	15.8	1.3	11.4	11.7
	60	5300	14.1	28.3	15.8	1.7	10.8	11.4
	64	5320	14.0	28.2	15.8	1.8	11.1	10.8
2C	100	5500	14.1	28.3	15.8	1.7	11.2	11.1
	116	5580	13.6	27.8	15.8	2.2	10.1	11.0
	140	5700	13.9	28.1	15.8	1.9	11.4	10.3
2C/3	144	5720	13.8	28.0	15.8	2.0	11.0	10.7

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	23.5	8.9	29.5	0.8
	60	5300	23.5	9.4	29.5	1.2
	64	5320	23.5	9.5	29.5	1.3
2C	100	5500	23.5	9.3	29.5	1.2
	116	5580	23.5	9.9	29.5	1.7
	140	5700	23.5	9.6	29.5	1.4
2C/3	144	5720	23.5	9.7	29.5	1.5

WLAN ac-Mode; 40 MHz; MCS0; MIMO					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	54	5270	14.9	29.1	15.8	0.9	12.0	11.9
	62	5310	14.8	29.0	15.8	1.0	11.7	11.8
2C	102	5510	14.0	28.2	15.8	1.8	10.9	11.1
	110	5550	13.6	27.8	15.8	2.2	10.7	10.4
	134	5670	14.6	28.8	15.8	1.2	11.8	11.4
2C/3	142	5710	13.7	27.9	15.8	2.1	11.1	10.3

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	54	5270	24.0	9.1	30.0	0.9
	62	5310	24.0	9.2	30.0	1.0
2C	102	5510	24.0	10.0	30.0	1.8
	110	5550	24.0	10.4	30.0	2.2
	134	5670	24.0	9.4	30.0	1.2
2C/3	142	5710	24.0	10.3	30.0	2.1

WLAN ax-Mode; 20 MHz; MCS0; MIMO					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	52	5260	14.4	28.6	15.8	1.4	11.3	11.5
	60	5300	14.0	28.2	15.8	1.8	10.7	11.3
	64	5320	13.8	28.0	15.8	2.0	10.9	10.6
2C	100	5500	13.9	28.1	15.8	1.9	11.0	10.8
	116	5580	13.4	27.6	15.8	2.4	9.9	10.8
	140	5700	13.8	28.0	15.8	2.0	11.3	10.2
2C/3	144	5720	13.6	27.8	15.8	2.2	10.8	10.4

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	52	5260	23.8	9.3	29.8	1.2
	60	5300	23.8	9.8	29.8	1.6
	64	5320	23.8	10.0	29.8	1.8
2C	100	5500	23.8	9.9	29.8	1.7
	116	5580	23.8	10.4	29.8	2.2
	140	5700	23.8	10.0	29.8	1.8
2C/3	144	5720	23.8	10.2	29.8	2.0

WLAN ax-Mode; 40 MHz; MCS0; MIMO					FCC		TX1	TX2
U-NII-Subband	Ch. No.	Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	ANT1 [dBm]	ANT2 [dBm]
2A	54	5270	14.6	28.8	15.8	1.2	11.6	11.5
	62	5310	14.4	28.6	15.8	1.4	11.3	11.4
2C	102	5510	13.6	27.8	15.8	2.2	10.5	10.6
	110	5550	13.2	27.4	15.8	2.6	10.4	10.0
	134	5670	14.2	28.4	15.8	1.6	11.3	11.1
2C/3	142	5710	13.3	27.5	15.8	2.5	10.6	9.9

table continued			IC			
U-NII-Subband	Ch. No.	Freq. [MHz]	IC Cond. Limit [dBm]	Margin [dB]	IC EIRP Limit [dBm]	Margin [dB]
2A	54	5270	24.0	9.4	30.0	1.2
	62	5310	24.0	9.6	30.0	1.4
2C	102	5510	24.0	10.4	30.0	2.2
	110	5550	24.0	10.8	30.0	2.6
	134	5670	24.0	9.8	30.0	1.6
2C/3	142	5710	24.0	10.7	30.0	2.5

Remark:

- None

5.4.4 MEASUREMENT PLOT (EXAMPLE PLOT, SHOWING WORST CASE, IF APPLICABLE)

Because all measurements have been performed with a gated power meter (signal bandwidth > 300 MHz) are no plots available

5.4.5 TEST EQUIPMENT USED

- R&S TS8997

5.5 PEAK POWER SPECTRAL DENSITY

Standard **FCC Part 15 Subpart E**

The test was performed according to:

ANSI C63.10, chapter 12.5 (SA-3)

5.5.1 TEST DESCRIPTION

The Equipment Under Test (EUT) was set up in a shielded room to perform the Maximum Power Spectral Density measurements.

The results recorded were measured with the modulation which produces the worst-case (highest) output power.

For U-NII bands 1, 2A, 2C, 3:

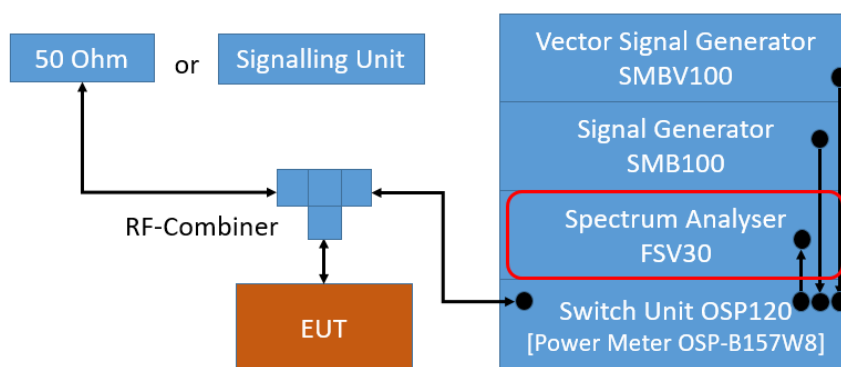
The EUT was connected to the test system as described in the block diagram below. The complete attenuation of the measurement path is known and considered.

Analyzer settings:

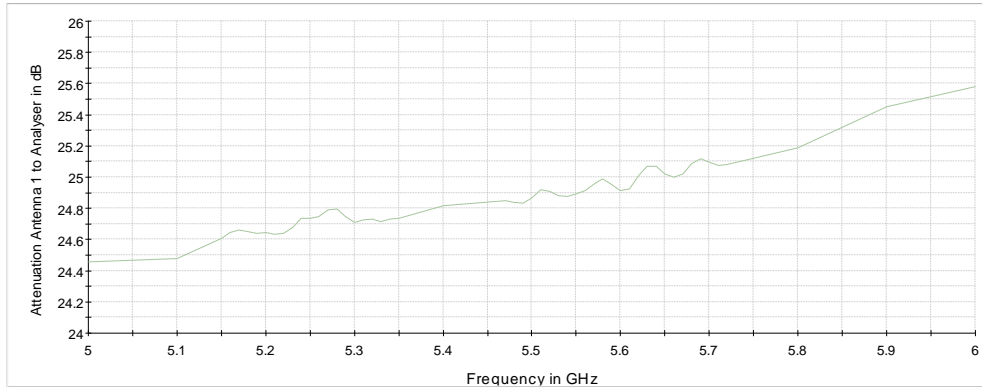
- Resolution Bandwidth (RBW): 1 MHz (for subband 3: 500 kHz)
- Video Bandwidth (VBW): 3 MHz (for subband 3: 2 MHz)
- Trace: Max Hold
- Sweeps: till stable (at least 180, max. 900)
- Sweeptime: \leq Number of sweep points x Min. Transmitter on time
- Detector: RMS
- Trigger: free run

Note:

The analyser settings are according FCC Public Note "Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E, 789033 D02", method **SA-3**.



TS8997; Maximum Power Spectral Density



Attenuation of the measurement path

For U-NII bands 5, 6, 7, 8:

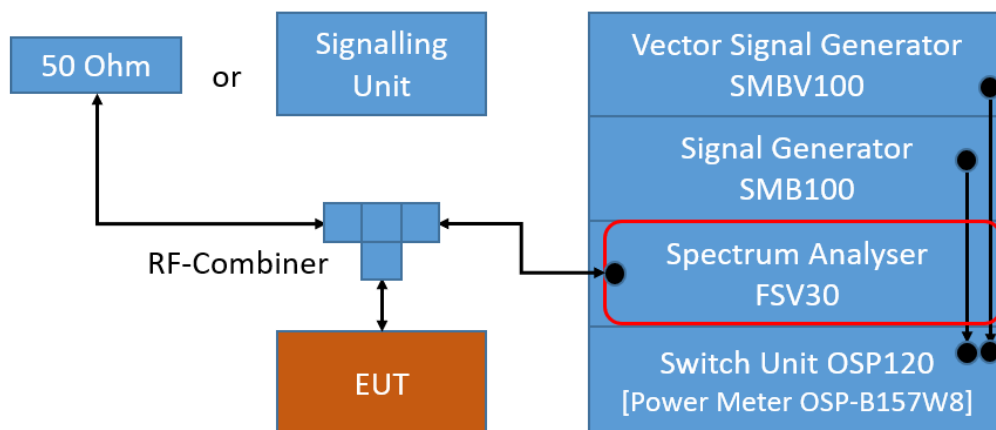
The EUT was connected to the test system as described in the block diagram below. The complete attenuation of the measurement path is known and considered.

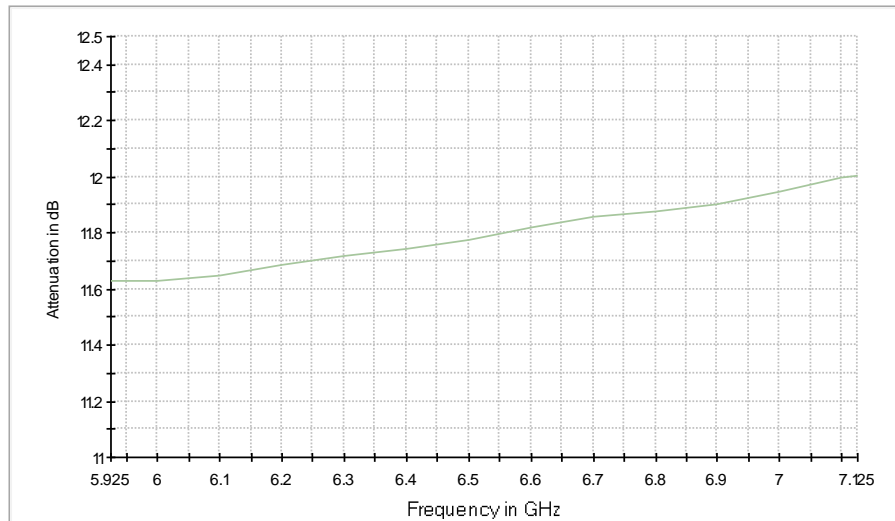
Analyzer settings:

- Resolution Bandwidth (RBW): 1 MHz
- Video Bandwidth (VBW): 3 MHz
- Trace: Average, RMS power averaging mode
- Sweeps: at least 100
- Sweep time: Auto
- Detector: RMS
- Trigger: free run (DC >98 %) or gated mode (DC < 98 %)

Note:

The analyser settings are according FCC Public Note "Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices - Part 15, Subpart E, 789033 D02", method **SA-1**.





Attenuation of measurement path

5.5.2 TEST REQUIREMENTS / LIMITS

A) FCC

FCC Part 15, Subpart E, §15.407 (a) (1)

For systems using digital modulation techniques in the 5.15 – 5.25 GHz bands:

(i) and (ii), outdoor and indoor access points: Limit: 17 dBm/MHz.

(iv), mobile and portable client devices: Limit: 11 dBm/MHz.

FCC Part 15, Subpart E, §15.407 (a) (2)

For systems using digital modulation techniques in the 5.25 – 5.35 GHz and 5.47 – 5.725 GHz bands:

Limit: 11 dBm/MHz.

FCC Part 15, Subpart E, §15.407 (a) (3)

For systems using digital modulation techniques in the 5.725 – 5.850 GHz bands:

Limit: 30 dBm/500 kHz.

FCC Part 15, Subpart E, §15.407 (a) (4):

For a standard power access point and fixed client devices in the 5.925 – 6.425 GHz and 6.525 – 6.875 GHz bands:

Limit: 23 dBm/MHz e.i.r.p.

FCC Part 15, Subpart E, §15.407 (a) (5):

For an indoor access point in the 5.925 – 7.125 GHz bands:

Limit: 5 dBm/MHz e.i.r.p.

FCC Part 15, Subpart E, §15.407 (a) (6):

For a subordinate device operating under an indoor access point in the 5.925 – 7.125 GHz bands:

Limit: 5 dBm/MHz e.i.r.p.

FCC Part 15, Subpart E, §15.407 (a) (7):

For a client device, except for fixed client devices, operating under standard power access point in the 5.925-6.425 GHz and 6.525-6.875 GHz bands:

Limit: 17 dBm/MHz e.i.r.p.

FCC Part 15, Subpart E, §15.407 (a) (8):

For client devices operating under the control of an indoor access point in the 5.925 – 7.125 GHz bands:

Limit: -1 dBm/MHz e.i.r.p.

B) IC

Different frequency bands and limits apply, as compared to the FCC requirements.

RSS-247, 6.2.1 (1), Band 5150-5250 MHz, indoor operation only:

Limit (e.i.r.p.): 10 dBm/MHz.

RSS-247, 6.2.2 (1), Band 5250-5350 MHz:

Limit: 11 dBm/MHz.

RSS-247, 6.2.3 (1), Bands 5470-5600 MHz and 5650-5725 MHz:

Limit: 11 dBm/MHz.

RSS-247, 6.2.4 (1), Band 5725-5850 MHz:

Limit: 30 dBm/500 kHz.

5.5.3 TEST PROTOCOL

Ambient temperature: 22 – 26 °C

Air Pressure: 991 – 1023 hPa

Humidity: 37 – 57 %

Conducted power settings for antenna gain ≤ 8.0 dBi (see chapter 4.6)

WLAN a-Mode; 20 MHz; 6 Mbit/s							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	7.8	9.0	1.2	11.0	3.2
	60	5300	7.5	9.0	1.5	11.0	3.5
	64	5320	7.3	9.0	1.7	11.0	3.7
2C	100	5500	7.7	9.0	1.3	11.0	3.3
	116	5580	7.0	9.0	2.0	11.0	4.0
	140	5700	7.4	9.0	1.6	11.0	3.6
2C/3	144	5720	7.0	9.0	2.0	11.0	4.0

WLAN n-Mode; 20 MHz; MCS0							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	7.5	9.0	1.5	11.0	3.5
	60	5300	6.8	9.0	2.2	11.0	4.2
	64	5320	6.5	9.0	2.5	11.0	4.5
2C	100	5500	6.9	9.0	2.1	11.0	4.1
	116	5580	6.2	9.0	2.8	11.0	4.8
	140	5700	6.7	9.0	2.3	11.0	4.3
2C/3	144	5720	6.4	9.0	2.6	11.0	4.6

WLAN n-Mode; 40 MHz; MCS0							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	4.7	9.0	4.3	11.0	6.3
	62	5310	4.7	9.0	4.3	11.0	6.3
2C	102	5510	5.1	9.0	3.9	11.0	5.9
	110	5550	4.8	9.0	4.2	11.0	6.2
	134	5670	5.9	9.0	3.1	11.0	5.1
2C/3	142	5710	5.0	9.0	4.0	11.0	6.0

WLAN ac-Mode; 20 MHz; MCS0							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	7.4	9.0	1.6	11.0	3.6
	60	5300	6.9	9.0	2.1	11.0	4.1
	64	5320	6.6	9.0	2.4	11.0	4.4
2C	100	5500	6.9	9.0	2.1	11.0	4.1
	116	5580	6.2	9.0	2.8	11.0	4.8
	140	5700	6.7	9.0	2.3	11.0	4.3
2C/3	144	5720	6.4	9.0	2.6	11.0	4.6

WLAN ac-Mode; 40 MHz; MCS0							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	5.1	9.0	3.9	11.0	5.9
	62	5310	4.7	9.0	4.3	11.0	6.3
2C	102	5510	5.1	9.0	3.9	11.0	5.9
	110	5550	4.8	9.0	4.2	11.0	6.2
	134	5670	6.1	9.0	2.9	11.0	4.9
2C/3	142	5710	5.0	9.0	4.0	11.0	6.0

WLAN ax-Mode; 20 MHz; MCS0							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	6.4	9.0	2.6	11.0	4.6
	60	5300	5.8	9.0	3.2	11.0	5.2
	64	5320	5.4	9.0	3.6	11.0	5.6
2C	100	5500	5.7	9.0	3.3	11.0	5.3
	116	5580	5.1	9.0	3.9	11.0	5.9
	140	5700	5.9	9.0	3.1	11.0	5.1
2C/3	144	5720	5.4	9.0	3.6	11.0	5.6

WLAN ax-Mode; 40 MHz; MCS0							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	4.2	9.0	4.8	11.0	6.8
	62	5310	3.8	9.0	5.2	11.0	7.2
2C	102	5510	3.9	9.0	5.1	11.0	7.1
	110	5550	3.8	9.0	5.2	11.0	7.2
	134	5670	5.4	9.0	3.6	11.0	5.6
2C/3	142	5710	4.4	9.0	4.6	11.0	6.6

WLAN a-Mode; 20 MHz; 6 Mbit/s; DIVERSITY					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	8.7	9.0	0.3
	60	5300	8.3	9.0	0.7
	64	5320	8.0	9.0	1.0
2C	100	5500	8.8	9.0	0.2
	116	5580	8.1	9.0	0.9
	140	5700	8.5	9.0	0.5
2C/3	144	5720	8.6	9.0	0.4

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	-	11.0	2.3
	60	5300	-	11.0	2.7
	64	5320	-	11.0	3.0
2C	100	5500	-	11.0	2.2
	116	5580	-	11.0	2.9
	140	5700	-	11.0	2.5
2C/3	144	5720	-	11.0	2.4

WLAN n-Mode; 20 MHz; MCS8; MIMO					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	8.4	9.0	0.6
	60	5300	8.1	9.0	0.9
	64	5320	7.6	9.0	1.4
2C	100	5500	8.1	9.0	0.9
	116	5580	7.4	9.0	1.6
	140	5700	7.8	9.0	1.2
2C/3	144	5720	7.7	9.0	1.3

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	-	11.0	2.6
	60	5300	-	11.0	2.9
	64	5320	-	11.0	3.4
2C	100	5500	-	11.0	2.9
	116	5580	-	11.0	3.6
	140	5700	-	11.0	3.2
2C/3	144	5720	-	11.0	3.3

WLAN n-Mode; 40 MHz; MCS8; MIMO					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	5.9	9.0	3.1
	62	5310	5.9	9.0	3.1
2C	102	5510	6.4	9.0	2.6
	110	5550	5.7	9.0	3.3
	134	5670	7.0	9.0	2.0
2C/3	142	5710	5.7	9.0	3.3

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	-	11.0	5.1
	62	5310	-	11.0	5.1
2C	102	5510	-	11.0	4.6
	110	5550	-	11.0	5.3
	134	5670	-	11.0	4.0
2C/3	142	5710	-	11.0	5.3

WLAN ac-Mode; 20 MHz; MCS0; MIMO					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	8.5	9.0	0.5
	60	5300	8.2	9.0	0.8
	64	5320	7.5	9.0	1.5
2C	100	5500	8.0	9.0	1.0
	116	5580	7.4	9.0	1.6
	140	5700	7.9	9.0	1.1
2C/3	144	5720	7.9	9.0	1.1

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	-	11.0	2.5
	60	5300	-	11.0	2.8
	64	5320	-	11.0	3.5
2C	100	5500	-	11.0	3.0
	116	5580	-	11.0	3.6
	140	5700	-	11.0	3.1
2C/3	144	5720	-	11.0	3.1

WLAN ac-Mode; 40 MHz; MCS0; MIMO					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	6.0	9.0	3.0
	62	5310	5.9	9.0	3.1
2C	102	5510	6.2	9.0	2.8
	110	5550	5.5	9.0	3.5
	134	5670	6.9	9.0	2.1
2C/3	142	5710	5.7	9.0	3.3

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	-	11.0	5.0
	62	5310	-	11.0	5.1
2C	102	5510	-	11.0	4.8
	110	5550	-	11.0	5.5
	134	5670	-	11.0	4.1
2C/3	142	5710	-	11.0	5.3

WLAN ax-Mode; 20 MHz; MCS0; MIMO					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	7.6	9.0	1.4
	60	5300	7.2	9.0	1.8
	64	5320	6.6	9.0	2.4
2C	100	5500	7.0	9.0	2.0
	116	5580	6.6	9.0	2.4
	140	5700	7.4	9.0	1.6
2C/3	144	5720	7.4	9.0	1.6

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	-	11.0	3.4
	60	5300	-	11.0	3.8
	64	5320	-	11.0	4.4
2C	100	5500	-	11.0	4.0
	116	5580	-	11.0	4.4
	140	5700	-	11.0	3.6
2C/3	144	5720	-	11.0	3.6

WLAN ax-Mode; 40 MHz; MCS0; MIMO					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	5.2	9.0	3.8
	62	5310	5.3	9.0	3.7
2C	102	5510	5.7	9.0	3.3
	110	5550	4.9	9.0	4.1
	134	5670	6.3	9.0	2.7
2C/3	142	5710	5.0	9.0	4.0

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	-	11.0	5.8
	62	5310	-	11.0	5.7
2C	102	5510	-	11.0	5.3
	110	5550	-	11.0	6.1
	134	5670	-	11.0	4.7
2C/3	142	5710	-	11.0	6.0

**Conducted power settings for antenna gain > 8.0 dBi and ≤ 9.0 dBi
(see chapter 4.6)**

WLAN a-Mode; 20 MHz; 6 Mbit/s							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	7.8	8.0	0.2	11.0	3.2
	60	5300	7.5	8.0	0.5	11.0	3.5
	64	5320	7.3	8.0	0.7	11.0	3.7
2C	100	5500	7.7	8.0	0.3	11.0	3.3
	116	5580	7.0	8.0	1.0	11.0	4.0
	140	5700	7.4	8.0	0.6	11.0	3.6
2C/3	144	5720	7.0	8.0	1.0	11.0	4.0

WLAN n-Mode; 20 MHz; MCS0							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	7.5	8.0	0.5	11.0	3.5
	60	5300	6.8	8.0	1.2	11.0	4.2
	64	5320	6.5	8.0	1.5	11.0	4.5
2C	100	5500	6.9	8.0	1.1	11.0	4.1
	116	5580	6.2	8.0	1.8	11.0	4.8
	140	5700	6.7	8.0	1.3	11.0	4.3
2C/3	144	5720	6.4	8.0	1.6	11.0	4.6

WLAN n-Mode; 40 MHz; MCS0							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	4.0	8.0	4.1	11.0	7.1
	62	5310	3.6	8.0	4.4	11.0	7.4
2C	102	5510	4.2	8.0	3.8	11.0	6.8
	110	5550	4.0	8.0	4.0	11.0	7.0
	134	5670	4.7	8.0	3.3	11.0	6.3
2C/3	144	5720	4.2	8.0	3.8	11.0	6.8

WLAN ac-Mode; 20 MHz; MCS0							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	7.4	8.0	0.6	11.0	3.6
	60	5300	6.9	8.0	1.1	11.0	4.1
	64	5320	6.6	8.0	1.4	11.0	4.4
2C	100	5500	6.9	8.0	1.1	11.0	4.1
	116	5580	6.2	8.0	1.8	11.0	4.8
	140	5700	6.7	8.0	1.3	11.0	4.3
2C/3	144	5720	6.4	8.0	1.6	11.0	4.6

WLAN ac-Mode; 40 MHz; MCS0							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	3.7	8.0	4.3	11.0	7.3
	62	5310	3.3	8.0	4.7	11.0	7.7
2C	102	5510	3.8	8.0	4.2	11.0	7.2
	110	5550	3.7	8.0	4.3	11.0	7.3
	134	5670	4.4	8.0	3.6	11.0	6.6
2C/3	142	5710	3.8	8.0	4.2	11.0	7.2

WLAN ax-Mode; 20 MHz; MCS0							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	6.4	8.0	1.6	11.0	4.6
	60	5300	5.8	8.0	2.2	11.0	5.2
	64	5320	5.4	8.0	2.6	11.0	5.6
2C	100	5500	5.7	8.0	2.3	11.0	5.3
	116	5580	5.1	8.0	2.9	11.0	5.9
	140	5700	5.9	8.0	2.1	11.0	5.1
2C/3	144	5720	5.4	8.0	2.6	11.0	5.6

WLAN ax-Mode; 40 MHz; MCS0							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	2.6	8.0	5.4	11.0	8.4
	62	5310	2.3	8.0	5.7	11.0	8.7
2C	102	5510	2.7	8.0	5.3	11.0	8.3
	110	5550	2.5	8.0	5.6	11.0	8.6
	134	5670	3.6	8.0	4.5	11.0	7.5
2C/3	142	5710	2.9	8.0	5.1	11.0	8.1

WLAN a-Mode; 20 MHz; 6 Mbit/s; DIVERSITY					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	7.8	8.0	0.2
	60	5300	7.5	8.0	0.5
	64	5320	7.3	8.0	0.7
2C	100	5500	7.9	8.0	0.1
	116	5580	7.2	8.0	0.8
	140	5700	7.4	8.0	0.6
2C/3	144	5720	7.1	8.0	0.9

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	-	11.0	3.2
	60	5300	-	11.0	3.5
	64	5320	-	11.0	3.7
2C	100	5500	-	11.0	3.1
	116	5580	-	11.0	3.8
	140	5700	-	11.0	3.6
2C/3	144	5720	-	11.0	3.9

WLAN n-Mode; 20 MHz; MCS8; MIMO					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	7.6	8.0	0.4
	60	5300	7.0	8.0	1.0
	64	5320	6.9	8.0	1.1
2C	100	5500	7.1	8.0	0.9
	116	5580	6.7	8.0	1.3
	140	5700	6.7	8.0	1.3
2C/3	144	5720	6.6	8.0	1.4

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	-	11.0	3.4
	60	5300	-	11.0	4.0
	64	5320	-	11.0	4.1
2C	100	5500	-	11.0	3.9
	116	5580	-	11.0	4.3
	140	5700	-	11.0	4.3
2C/3	144	5720	-	11.0	4.4

WLAN n-Mode; 40 MHz; MCS8; MIMO					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	4.1	8.0	3.9
	62	5310	4.1	8.0	3.9
2C	102	5510	4.4	8.0	3.6
	110	5550	3.9	8.0	4.1
	134	5670	5.0	8.0	3.0
2C/3	142	5710	3.8	8.0	4.2

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	-	11.0	6.9
	62	5310	-	11.0	6.9
2C	102	5510	-	11.0	6.6
	110	5550	-	11.0	7.1
	134	5670	-	11.0	6.0
2C/3	142	5710	-	11.0	7.2

WLAN ac-Mode; 20 MHz; MCS0; MIMO					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	7.3	8.0	0.7
	60	5300	6.7	8.0	1.3
	64	5320	6.4	8.0	1.6
2C	100	5500	6.7	8.0	1.3
	116	5580	6.5	8.0	1.5
	140	5700	6.6	8.0	1.4
2C/3	144	5720	6.5	8.0	1.5

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	-	11.0	3.7
	60	5300	-	11.0	4.3
	64	5320	-	11.0	4.6
2C	100	5500	-	11.0	4.3
	116	5580	-	11.0	4.5
	140	5700	-	11.0	4.4
2C/3	144	5720	-	11.0	4.5

WLAN ac-Mode; 40 MHz; MCS0; MIMO					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	4.2	8.0	3.8
	62	5310	4.1	8.0	3.9
2C	102	5510	4.4	8.0	3.6
	110	5550	3.9	8.0	4.1
	134	5670	5.0	8.0	3.0
2C/3	142	5710	3.8	8.0	4.2

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	-	11.0	6.8
	62	5310	-	11.0	6.9
2C	102	5510	-	11.0	6.6
	110	5550	-	11.0	7.1
	134	5670	-	11.0	6.0
2C/3	142	5710	-	11.0	7.2

WLAN ax-Mode; 20 MHz; MCS0; MIMO					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	7.2	8.0	0.8
	60	5300	6.6	8.0	1.4
	64	5320	6.3	8.0	1.7
2C	100	5500	6.7	8.0	1.3
	116	5580	6.3	8.0	1.7
	140	5700	6.4	8.0	1.6
2C/3	144	5720	6.2	8.0	1.8

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	-	11.0	3.8
	60	5300	-	11.0	4.4
	64	5320	-	11.0	4.7
2C	100	5500	-	11.0	4.3
	116	5580	-	11.0	4.7
	140	5700	-	11.0	4.6
2C/3	144	5720	-	11.0	4.8

WLAN ax-Mode; 40 MHz; MCS0; MIMO					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	3.4	8.0	4.6
	62	5310	3.4	8.0	4.6
2C	102	5510	3.7	8.0	4.3
	110	5550	3.2	8.0	4.8
	134	5670	4.3	8.0	3.7
2C/3	142	5710	3.2	8.0	4.8

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	-	11.0	7.6
	62	5310	-	11.0	7.6
2C	102	5510	-	11.0	7.3
	110	5550	-	11.0	7.8
	134	5670	-	11.0	6.7
2C/3	142	5710	-	11.0	7.8

Conducted power settings for antenna gain > 9.0 dBi and ≤ 14.2 dBi (see chapter 4.6)

WLAN a-Mode; 20 MHz; 6 Mbit/s							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	2.7	2.8	0.1	11.0	8.3
	60	5300	2.2	2.8	0.6	11.0	8.8
	64	5320	2.0	2.8	0.8	11.0	9.0
2C	100	5500	2.5	2.8	0.3	11.0	8.5
	116	5580	2.0	2.8	0.8	11.0	9.0
	140	5700	1.8	2.8	1.0	11.0	9.2
2C/3	144	5720	2.4	2.8	0.4	11.0	8.6

WLAN n-Mode; 20 MHz; MCS0							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	2.5	2.8	0.3	11.0	8.5
	60	5300	2.0	2.8	0.8	11.0	9.0
	64	5320	2.0	2.8	0.8	11.0	9.0
2C	100	5500	2.3	2.8	0.5	11.0	8.7
	116	5580	1.3	2.8	1.5	11.0	9.7
	140	5700	2.2	2.8	0.6	11.0	8.8
2C/3	144	5720	1.7	2.8	1.1	11.0	9.3

WLAN n-Mode; 40 MHz; MCS0							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	-3.0	2.8	5.8	11.0	14.0
	62	5310	-3.2	2.8	6.0	11.0	14.2
2C	102	5510	-3.9	2.8	6.7	11.0	14.9
	110	5550	-4.0	2.8	6.8	11.0	15.0
	134	5670	-3.2	2.8	6.0	11.0	14.2
2C/3	142	5710	-4.0	2.8	6.8	11.0	15.0

WLAN ac-Mode; 20 MHz; MCS0							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	2.5	2.8	0.3	11.0	8.5
	60	5300	1.9	2.8	0.9	11.0	9.1
	64	5320	2.0	2.8	0.8	11.0	9.0
2C	100	5500	2.3	2.8	0.5	11.0	8.7
	116	5580	1.3	2.8	1.5	11.0	9.7
	140	5700	2.2	2.8	0.6	11.0	8.8
2C/3	144	5720	1.8	2.8	1.0	11.0	9.2

WLAN ac-Mode; 40 MHz; MCS0							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	-3.0	2.8	5.8	11.0	14.0
	62	5310	-3.2	2.8	6.0	11.0	14.2
2C	102	5510	-3.7	2.8	6.5	11.0	14.7
	110	5550	-4.0	2.8	6.8	11.0	15.0
	134	5670	-3.2	2.8	6.0	11.0	14.2
2C/3	142	5710	-4.0	2.8	6.8	11.0	15.0

WLAN ax-Mode; 20 MHz; MCS0							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	1.8	2.8	1.0	11.0	9.2
	60	5300	1.3	2.8	1.5	11.0	9.7
	64	5320	1.3	2.8	1.5	11.0	9.7
2C	100	5500	1.7	2.8	1.2	11.0	9.4
	116	5580	0.6	2.8	2.3	11.0	10.5
	140	5700	1.5	2.8	1.3	11.0	9.5
2C/3	144	5720	1.1	2.8	1.7	11.0	9.9

WLAN ax-Mode; 40 MHz; MCS0							
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]	IC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	-3.8	2.8	6.6	11.0	14.8
	62	5310	-4.1	2.8	6.9	11.0	15.1
2C	102	5510	-4.7	2.8	7.5	11.0	15.7
	110	5550	-4.8	2.8	7.6	11.0	15.8
	134	5670	-4.1	2.8	6.9	11.0	15.1
2C/3	142	5710	-4.8	2.8	7.6	11.0	15.8

WLAN a-Mode; 20 MHz; 6 Mbit/s; DIVERSITY					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	2.8	2.8	0.0
	60	5300	2.8	2.8	0.0
	64	5320	2.4	2.8	0.4
2C	100	5500	2.8	2.8	0.0
	116	5580	2.5	2.8	0.3
	140	5700	2.5	2.8	0.3
2C/3	144	5720	2.3	2.8	0.5

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	-	11.0	8.2
	60	5300	-	11.0	8.2
	64	5320	-	11.0	8.6
2C	100	5500	-	11.0	8.2
	116	5580	-	11.0	8.5
	140	5700	-	11.0	8.5
2C/3	144	5720	-	11.0	8.3

WLAN n-Mode; 20 MHz; MCS8; MIMO					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	2.8	2.8	0.0
	60	5300	2.2	2.8	0.6
	64	5320	2.1	2.8	0.7
2C	100	5500	2.4	2.8	0.4
	116	5580	2.0	2.8	0.8
	140	5700	2.2	2.8	0.6
2C/3	144	5720	1.9	2.8	0.9

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	-	11.0	8.2
	60	5300	-	11.0	8.8
	64	5320	-	11.0	8.9
2C	100	5500	-	11.0	8.6
	116	5580	-	11.0	9.0
	140	5700	-	11.0	8.8
2C/3	144	5720	-	11.0	9.1

WLAN n-Mode; 40 MHz; MCS8; MIMO					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	-0.2	2.8	3.0
	62	5310	-0.1	2.8	2.9
2C	102	5510	-0.9	2.8	3.7
	110	5550	-1.3	2.8	4.1
	134	5670	-0.2	2.8	3.0
2C/3	142	5710	-1.5	2.8	4.3

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	-	11.0	11.2
	62	5310	-	11.0	11.1
2C	102	5510	-	11.0	11.9
	110	5550	-	11.0	12.3
	134	5670	-	11.0	11.2
2C/3	142	5710	-	11.0	12.5

WLAN ac-Mode; 20 MHz; MCS0; MIMO					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	2.8	2.8	0.0
	60	5300	2.4	2.8	0.4
	64	5320	2.1	2.8	0.7
2C	100	5500	2.4	2.8	0.4
	116	5580	2.0	2.8	0.8
	140	5700	2.2	2.8	0.6
2C/3	144	5720	2.1	2.8	0.7

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	-	11.0	8.2
	60	5300	-	11.0	8.6
	64	5320	-	11.0	8.9
2C	100	5500	-	11.0	8.6
	116	5580	-	11.0	9.0
	140	5700	-	11.0	8.8
2C/3	144	5720	-	11.0	8.9

WLAN ac-Mode; 40 MHz; MCS0; MIMO					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	0.2	2.8	2.6
	62	5310	0.1	2.8	2.7
2C	102	5510	-0.6	2.8	3.4
	110	5550	-1.0	2.8	3.8
	134	5670	0.1	2.8	2.7
2C/3	142	5710	-1.2	2.8	4.0

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	-	11.0	10.8
	62	5310	-	11.0	10.9
2C	102	5510	-	11.0	11.6
	110	5550	-	11.0	12.0
	134	5670	-	11.0	10.9
2C/3	142	5710	-	11.0	12.2

WLAN ax-Mode; 20 MHz; MCS0; MIMO					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	2.3	2.8	0.5
	60	5300	1.9	2.8	0.9
	64	5320	1.5	2.8	1.3
2C	100	5500	1.8	2.8	1.0
	116	5580	1.3	2.8	1.5
	140	5700	1.5	2.8	1.3
2C/3	144	5720	1.2	2.8	1.6

table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	52	5260	-	11.0	8.7
	60	5300	-	11.0	9.1
	64	5320	-	11.0	9.5
2C	100	5500	-	11.0	9.2
	116	5580	-	11.0	9.7
	140	5700	-	11.0	9.5
2C/3	144	5720	-	11.0	9.8

WLAN ax-Mode; 40 MHz; MCS0; MIMO					
U-NII-Subband	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	FCC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	-0.4	2.8	3.2
	62	5310	-0.4	2.8	3.2
2C	102	5510	-1.1	2.8	3.9
	110	5550	-1.6	2.8	4.4
	134	5670	-0.5	2.8	3.3
2C/3	142	5710	-1.7	2.8	4.5

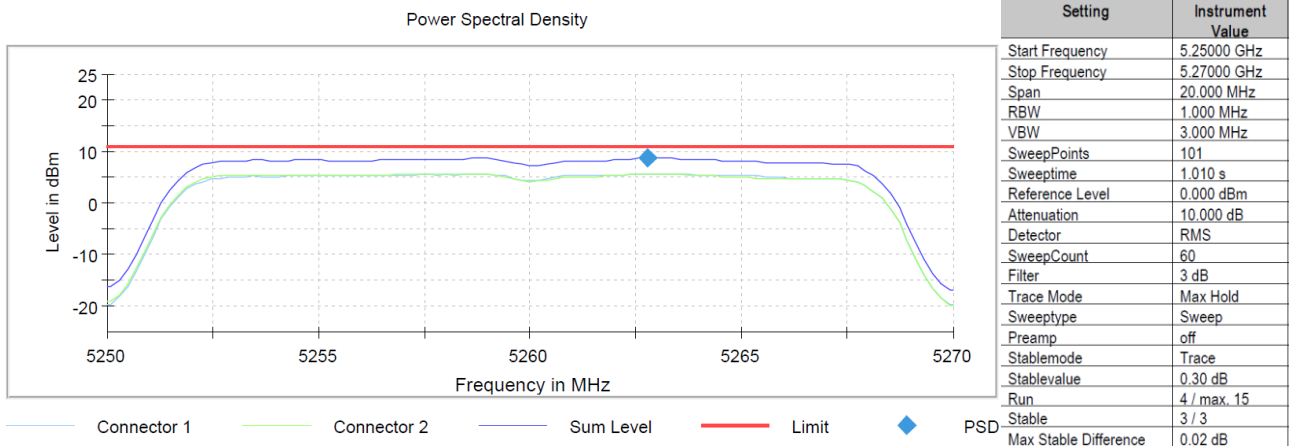
table continued					
U-NII-Subband	Ch. No.	Freq. [MHz]	IC EIRP MPSD	IC Limit [dBm/MHz]	Margin [dB]
2A	54	5270	-	11.0	11.4
	62	5310	-	11.0	11.4
2C	102	5510	-	11.0	12.1
	110	5550	-	11.0	12.6
	134	5670	-	11.0	11.5
2C/3	142	5710	-	11.0	12.8

Remark: Please see next sub-clause for the measurement plot.

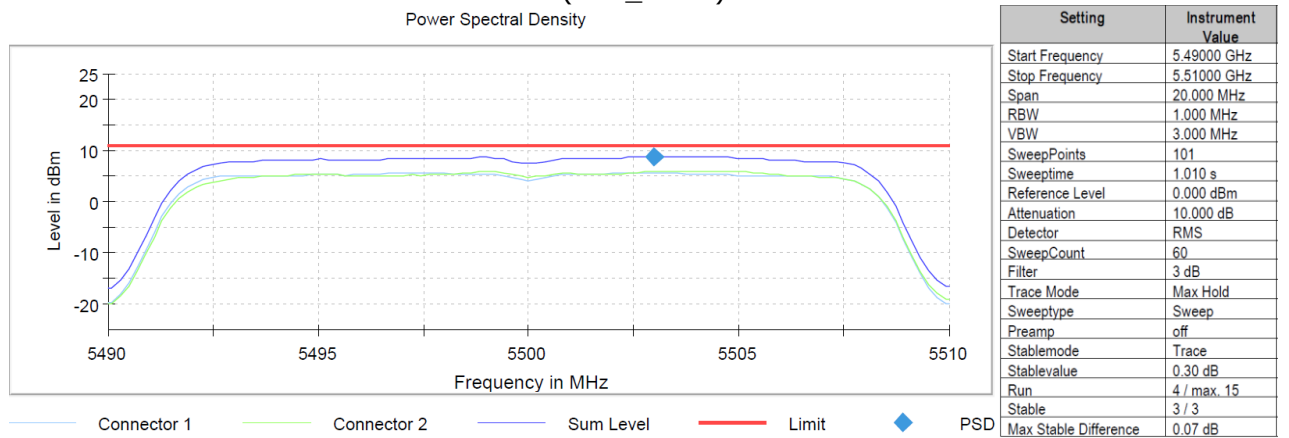
5.5.4 MEASUREMENT PLOT (EXAMPLE PLOT, SHOWING WORST CASE, IF APPLICABLE)

Conducted power settings for antenna gain ≤ 8.0 dBi (see chapter 4.6)

Radio Technology = WLAN a DIVERSITY, Operating Frequency = low, Subband = U-NII-2a (S01_AJ03)



Radio Technology = WLAN a DIVERSITY, Operating Frequency = low, Subband = U-NII-2c (S01_AH03)



Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = low, Subband = U-NII-2A (S01_AH03)

