

FCC Measurement/Technical Report on

WLAN and Bluetooth Module

MAYA-W386

FCC ID: XPYMAW3A
IC: 8595A-MAYAW3A

Test Report Reference: MDE_UBLOX_2408_FCC_05_rev02

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D-PL-12140-01-00

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.

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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 and 15 (10-1-24 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 KDB “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”. and

ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 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 & AMD 1 & AMD 2: 8.8
Occupied bandwidth	§ 15.403 (26 dB) / § 15.407 (e) (6 dB)	RSS-247 Issue 4: 7.3.1.2 / 7.3.1.3 (c) / 7.3.2.2 / 7.3.3.2 (99%) RSS-247 Issue 4: 7.3.1.3 (b) (26 dB) RSS-247 Issue 4: 7.3.4.2 / 7.3.5.2 (6 dB) RSS-248 Issue 3: 4.4 (99%)
Maximum conducted output power	§ 15.407 (a) (1) to (8), (11)	RSS-247 Issue 4: 7.3.1.2 / 7.3.2.2 / 7.3.3.2 / 7.3.4.3 / 7.3.5.3 RSS-248 Issue 3: 4.5
Maximum power spectral density	§ 15.407 (a) (1) to (8), (12)	RSS-247 Issue 4: 7.3.1.2 / 7.3.2.2 / 7.3.3.2 / 7.3.4.3 / 7.3.5.3 RSS-248 Issue 3: 4.5
Transmitter undesirable emissions; General Field Strength Limits, Restricted Bands, In-Band Emissions	§ 15.407 (b) § 15.209 (a)	RSS-Gen Issue 5: 6.13 / 8.9 / 8.10; RSS-247 Issue 4: 7.3 / 7.3.1.3 / 7.3.2.3 / 7.3.3.3 / 7.3.4.4 / 7.3.5.4 RSS-248 Issue 3: 4.6
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 4: 7.1 / 7.3.1.2 / 7.3.1.3 / 7.3.2.2 / 7.3.3.2 / 7.3.2.1 / 7.3.3.1 / 7.3.6
Antenna requirement	§ 15.203 / 15.204 § 15.407 (a) (9)	RSS-Gen Issue 5 & AMD 1 & AMD 2: 8.3
Contention Based Protocol	§ 15.407 (d) (6)	RSS-248 Issue 3: 4.7
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 12.5.2

Final Result

OP-Mode Radio Technology, Operating Frequency, Subband	Setup	Date	FCC	IC
WLAN a, high, U-NII-1	S01_BC01	2025-04-30	Performed	N/A
WLAN a, high, U-NII-2A	S01_BC01	2025-04-30	Performed	N/A
WLAN a, high, U-NII-2C	S01_BC01	2025-04-30	Performed	N/A
WLAN a, low, U-NII-1	S01_BC01	2025-04-30	Performed	N/A
WLAN a, low, U-NII-2A	S01_BC01	2025-04-30	Performed	N/A
WLAN a, low, U-NII-2C	S01_BC01	2025-04-30	Performed	N/A
WLAN a, mid, U-NII-1	S01_BC01	2025-04-30	Performed	N/A
WLAN a, mid, U-NII-2A	S01_BC01	2025-04-30	Performed	N/A
WLAN a, mid, U-NII-2C	S01_BC01	2025-04-30	Performed	N/A
WLAN a, straddle, U-NII-2C + U-NII-3	S01_BC01	2025-04-30	Performed	N/A
WLAN ax 20 MHz, high, U-NII-1	S01_BC01	2025-04-30	Performed	N/A
WLAN ax 20 MHz, high, U-NII-2A	S01_BC01	2025-04-30	Performed	N/A
WLAN ax 20 MHz, high, U-NII-2C	S01_BC01	2025-04-30	Performed	N/A
WLAN ax 20 MHz, low, U-NII-1	S01_BC01	2025-04-30	Performed	N/A
WLAN ax 20 MHz, low, U-NII-2A	S01_BC01	2025-04-30	Performed	N/A
WLAN ax 20 MHz, low, U-NII-2C	S01_BC01	2025-04-30	Performed	N/A
WLAN ax 20 MHz, mid, U-NII-1	S01_BC01	2025-04-30	Performed	N/A
WLAN ax 20 MHz, mid, U-NII-2A	S01_BC01	2025-04-30	Performed	N/A
WLAN ax 20 MHz, mid, U-NII-2C	S01_BC01	2025-04-30	Performed	N/A
WLAN ax 20 MHz, straddle, U-NII-2C + U-NII-3	S01_BC01	2025-04-30	Performed	N/A

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FCC §15.31, §15.407 (e)

6 dB Bandwidth

The measurement was performed according to ANSI C63.10,
chapter 12.5.1

Final Result

OP-Mode Radio Technology, Operating Frequency, Subband	Setup	Date	FCC	IC
WLAN a, high, U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN a, low, U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN a, mid, U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN a, straddle, U-NII-2C + U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, high, U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, low, U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, straddle, U-NII-2C + U-NII-3	S01_BC01	2025-04-30	Passed	Passed

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FCC §15.31, IC RSS 247 Ch. 6.2.x

99 % Bandwidth

The measurement was performed according to ANSI C63.10,
 chapter 12.5.3 (6.9.3)

Final Result

OP-Mode

Radio Technology, Operating Frequency,
 Subband

	Setup	Date	FCC	IC
WLAN a, high, U-NII-1	S01_BC01	2025-04-30	Performed	Performed
WLAN a, high, U-NII-2A	S01_BC01	2025-04-30	Performed	Performed
WLAN a, high, U-NII-2C	S01_BC01	2025-04-30	Performed	Performed
WLAN a, high, U-NII-3	S01_BC01	2025-04-30	Performed	Performed
WLAN a, low, U-NII-1	S01_BC01	2025-04-30	Performed	Performed
WLAN a, low, U-NII-2A	S01_BC01	2025-04-30	Performed	Performed
WLAN a, low, U-NII-2C	S01_BC01	2025-04-30	Performed	Performed
WLAN a, low, U-NII-3	S01_BC01	2025-04-30	Performed	Performed
WLAN a, mid, U-NII-1	S01_BC01	2025-04-30	Performed	Performed
WLAN a, mid, U-NII-2A	S01_BC01	2025-04-30	Performed	Performed
WLAN a, mid, U-NII-2C	S01_BC01	2025-04-30	Performed	Performed
WLAN a, mid, U-NII-3	S01_BC01	2025-04-30	Performed	Performed
WLAN a, straddle, U-NII-2C + U-NII-3	S01_BC01	2025-04-30	Performed	Performed
WLAN ax 20 MHz, high, U-NII-1	S01_BC01	2025-04-30	Performed	Performed
WLAN ax 20 MHz, high, U-NII-2A	S01_BC01	2025-04-30	Performed	Performed
WLAN ax 20 MHz, high, U-NII-2C	S01_BC01	2025-04-30	Performed	Performed
WLAN ax 20 MHz, high, U-NII-3	S01_BC01	2025-04-30	Performed	Performed
WLAN ax 20 MHz, low, U-NII-1	S01_BC01	2025-04-30	Performed	Performed
WLAN ax 20 MHz, low, U-NII-2A	S01_BC01	2025-04-30	Performed	Performed
WLAN ax 20 MHz, low, U-NII-2C	S01_BC01	2025-04-30	Performed	Performed
WLAN ax 20 MHz, low, U-NII-3	S01_BC01	2025-04-30	Performed	Performed
WLAN ax 20 MHz, mid, U-NII-1	S01_BC01	2025-04-30	Performed	Performed
WLAN ax 20 MHz, mid, U-NII-2A	S01_BC01	2025-04-30	Performed	Performed
WLAN ax 20 MHz, mid, U-NII-2C	S01_BC01	2025-04-30	Performed	Performed
WLAN ax 20 MHz, mid, U-NII-3	S01_BC01	2025-04-30	Performed	Performed
WLAN ax 20 MHz, straddle, U-NII-2C + U-NII-3	S01_BC01	2025-04-30	Performed	Performed

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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 12.4.3.2

Final Result

OP-Mode

Radio Technology, Operating Frequency,
Subband

Setup

Date

FCC

IC

WLAN a, high, U-NII-1	S01_BC01	2025-04-30	Passed	Passed
WLAN a, high, U-NII-2A	S01_BC01	2025-04-30	Passed	Passed
WLAN a, high, U-NII-2C	S01_BC01	2025-04-30	Passed	Passed
WLAN a, high, U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN a, low, U-NII-1	S01_BC01	2025-04-30	Passed	Passed
WLAN a, low, U-NII-2A	S01_BC01	2025-04-30	Passed	Passed
WLAN a, low, U-NII-2C	S01_BC01	2025-04-30	Passed	Passed
WLAN a, low, U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN a, mid, U-NII-1	S01_BC01	2025-04-30	Passed	Passed
WLAN a, mid, U-NII-2A	S01_BC01	2025-04-30	Passed	Passed
WLAN a, mid, U-NII-2C	S01_BC01	2025-04-30	Passed	Passed
WLAN a, mid, U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN a, straddle, U-NII-2C + U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN ac 20 MHz, high, U-NII-1	S01_BC01	2025-06-25	Passed	Passed
WLAN ac 20 MHz, high, U-NII-2A	S01_BC01	2025-06-25	Passed	Passed
WLAN ac 20 MHz, high, U-NII-2C	S01_BC01	2025-06-25	Passed	Passed
WLAN ac 20 MHz, high, U-NII-3	S01_BC01	2025-06-25	Passed	Passed
WLAN ac 20 MHz, low, U-NII-1	S01_BC01	2025-06-25	Passed	Passed
WLAN ac 20 MHz, low, U-NII-2A	S01_BC01	2025-06-25	Passed	Passed
WLAN ac 20 MHz, low, U-NII-2C	S01_BC01	2025-06-25	Passed	Passed
WLAN ac 20 MHz, low, U-NII-3	S01_BC01	2025-06-25	Passed	Passed
WLAN ac 20 MHz, mid, U-NII-1	S01_BC01	2025-06-25	Passed	Passed
WLAN ac 20 MHz, mid, U-NII-2A	S01_BC01	2025-06-25	Passed	Passed
WLAN ac 20 MHz, mid, U-NII-2C	S01_BC01	2025-06-25	Passed	Passed
WLAN ac 20 MHz, mid, U-NII-3	S01_BC01	2025-06-25	Passed	Passed
WLAN ac 20 MHz, straddle, U-NII-2C + U-NII-3	S01_BC01	2025-06-25	Passed	Passed
WLAN ax 20 MHz, high, U-NII-1	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2A	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2C	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, high, U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, low, U-NII-1	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, low, U-NII-2A	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, low, U-NII-2C	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, low, U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-1	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-2A	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-2C	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, straddle, U-NII-2C + U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN n 20 MHz, high, U-NII-1	S01_BC01	2025-06-25	Passed	Passed

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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 12.4.3.2

Final Result

OP-Mode

Radio Technology, Operating Frequency,
 Subband

	Setup	Date	FCC	IC
WLAN n 20 MHz, high, U-NII-2A	S01_BC01	2025-06-27	Passed	Passed
WLAN n 20 MHz, high, U-NII-2C	S01_BC01	2025-06-25	Passed	Passed
WLAN n 20 MHz, high, U-NII-3	S01_BC01	2025-06-25	Passed	Passed
WLAN n 20 MHz, low, U-NII-1	S01_BC01	2025-06-25	Passed	Passed
WLAN n 20 MHz, low, U-NII-2A	S01_BC01	2025-06-25	Passed	Passed
WLAN n 20 MHz, low, U-NII-2C	S01_BC01	2025-06-25	Passed	Passed
WLAN n 20 MHz, low, U-NII-3	S01_BC01	2025-06-25	Passed	Passed
WLAN n 20 MHz, mid, U-NII-1	S01_BC01	2025-06-25	Passed	Passed
WLAN n 20 MHz, mid, U-NII-2A	S01_BC01	2025-06-25	Passed	Passed
WLAN n 20 MHz, mid, U-NII-2C	S01_BC01	2025-06-25	Passed	Passed
WLAN n 20 MHz, mid, U-NII-3	S01_BC01	2025-06-25	Passed	Passed
WLAN n 20 MHz, straddle, U-NII-2C + U-NII-3	S01_BC01	2025-06-25	Passed	Passed

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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 12.6 (SA-1)

Final Result

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN a, high, U-NII-1	S01_BC01	2025-04-30	Passed	Passed
WLAN a, high, U-NII-2A	S01_BC01	2025-04-30	Passed	Passed
WLAN a, high, U-NII-2C	S01_BC01	2025-04-30	Passed	Passed
WLAN a, high, U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN a, low, U-NII-1	S01_BC01	2025-04-30	Passed	Passed
WLAN a, low, U-NII-2A	S01_BC01	2025-04-30	Passed	Passed
WLAN a, low, U-NII-2C	S01_BC01	2025-04-30	Passed	Passed
WLAN a, low, U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN a, mid, U-NII-1	S01_BC01	2025-04-30	Passed	Passed
WLAN a, mid, U-NII-2A	S01_BC01	2025-04-30	Passed	Passed
WLAN a, mid, U-NII-2C	S01_BC01	2025-04-30	Passed	Passed
WLAN a, mid, U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN a, straddle, U-NII-2C + U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, high, U-NII-1	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2A	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2C	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, high, U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, low, U-NII-1	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, low, U-NII-2A	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, low, U-NII-2C	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, low, U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-1	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-2A	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-2C	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, mid, U-NII-3	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, straddle, U-NII-2C + U-NII-3	S01_BC01	2025-04-30	Passed	Passed

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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 (radiated); 12.7.5,12.7.6,12.7.7.2 (conducted) **Final Result**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Measurement range, Subband				
WLAN a, high, 1GHz - 26GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, high, 1GHz - 26GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, high, 1GHz - 26GHz, U-NII-2A Remark: Measurement Method Radiated with 50 Ohm termination	S02_BG03	2025-06-27	Passed	Passed
WLAN a, high, 1GHz - 26GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, high, 1GHz - 26GHz, U-NII-2C Remark: Measurement Method Radiated with 50 Ohm termination	S02_BG03	2025-07-04	Passed	Passed
WLAN a, high, 1GHz - 26GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, high, 1GHz - 26GHz, U-NII-3 Remark: Measurement Method Radiated with 50 Ohm termination	S02_BG03	2025-07-04	Passed	Passed
WLAN a, high, 26GHz - 40GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, high, 26GHz - 40GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, high, 26GHz - 40GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, high, 26GHz - 40GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, high, 30MHz - 1GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, high, 30MHz - 1GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, high, 30MHz - 1GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, high, 30MHz - 1GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, high, 9kHz - 30MHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, high, 9kHz - 30MHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, high, 9kHz - 30MHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, high, 9kHz - 30MHz, U-NII-2C Remark: Measurement Method Radiated with 50 Ohm termination	S02_BG03	2025-07-22	Passed	Passed
WLAN a, high, 9kHz - 30MHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-10-06	Passed	Passed
WLAN a, low, 1GHz - 26GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed

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§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 (radiated); 12.7.5,12.7.6,12.7.7.2 (conducted) **Final Result**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Measurement range, Subband				
WLAN a, low, 1GHz - 26GHz, U-NII-1 Remark: Measurement Method Radiated with 50 Ohm termination	S02_BG03	2025-06-26	Passed	Passed
WLAN a, low, 1GHz - 26GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, low, 1GHz - 26GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, low, 1GHz - 26GHz, U-NII-2C Remark: Measurement Method Radiated with 50 Ohm termination	S02_BG03	2025-06-27	Passed	Passed
WLAN a, low, 1GHz - 26GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, low, 26GHz - 40GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, low, 26GHz - 40GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, low, 26GHz - 40GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, low, 26GHz - 40GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, low, 30MHz - 1GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, low, 30MHz - 1GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, low, 30MHz - 1GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, low, 30MHz - 1GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, low, 9kHz - 30MHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, low, 9kHz - 30MHz, U-NII-1 Remark: Measurement Method Radiated with 50 Ohm termination	S02_BG03	2025-07-22	Passed	Passed
WLAN a, low, 9kHz - 30MHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, low, 9kHz - 30MHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, low, 9kHz - 30MHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, mid, 1GHz - 26GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, mid, 1GHz - 26GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, mid, 1GHz - 26GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, mid, 1GHz - 26GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed

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§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 (radiated); 12.7.5,12.7.6,12.7.7.2 (conducted) **Final Result**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Measurement range, Subband				
WLAN a, mid, 26GHz - 40GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, mid, 26GHz - 40GHz, U-NII-1 Remark: Measurement Method Radiated with 50 Ohm termination	S02_BG03	2025-07-14	Passed	Passed
WLAN a, mid, 26GHz - 40GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, mid, 26GHz - 40GHz, U-NII-2A Remark: Measurement Method Radiated with 50 Ohm termination	S02_BG03	2025-07-21	Passed	Passed
WLAN a, mid, 26GHz - 40GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, mid, 26GHz - 40GHz, U-NII-2C Remark: Measurement Method Radiated with 50 Ohm termination	S02_BG03	2025-07-21	Passed	Passed
WLAN a, mid, 26GHz - 40GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, mid, 26GHz - 40GHz, U-NII-3 Remark: Measurement Method Radiated with 50 Ohm termination	S02_BG03	2025-07-21	Passed	Passed
WLAN a, mid, 30MHz - 1GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, mid, 30MHz - 1GHz, U-NII-1 Remark: Measurement Method Radiated with 50 Ohm termination	S02_BG03	2025-07-10	Passed	Passed
WLAN a, mid, 30MHz - 1GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, mid, 30MHz - 1GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, mid, 30MHz - 1GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, mid, 9kHz - 30MHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, mid, 9kHz - 30MHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, mid, 9kHz - 30MHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN a, mid, 9kHz - 30MHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ac 20 MHz, high, 1GHz - 26GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ac 20 MHz, high, 1GHz - 26GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ac 20 MHz, high, 1GHz - 26GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ac 20 MHz, high, 1GHz - 26GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed

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§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 (radiated); 12.7.5,12.7.6,12.7.7.2 (conducted)

Final Result

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Measurement range, Subband				
WLAN ac 20 MHz, low, 1GHz - 26GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ac 20 MHz, low, 1GHz - 26GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ac 20 MHz, low, 1GHz - 26GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ac 20 MHz, low, 1GHz - 26GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ac 20 MHz, mid, 1GHz - 26GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ac 20 MHz, mid, 1GHz - 26GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ac 20 MHz, mid, 1GHz - 26GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ac 20 MHz, mid, 1GHz - 26GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, high, 1GHz - 26GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, high, 1GHz - 26GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, high, 1GHz - 26GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, high, 1GHz - 26GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, high, 26GHz - 40GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, high, 26GHz - 40GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, high, 26GHz - 40GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, high, 26GHz - 40GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, high, 30MHz - 1GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, high, 30MHz - 1GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, high, 30MHz - 1GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, high, 9kHz - 30MHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, high, 9kHz - 30MHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, high, 9kHz - 30MHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, high, 9kHz - 30MHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed

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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 (radiated); 12.7.5,12.7.6,12.7.7.2 (conducted)

Final Result

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Measurement range, Subband				
WLAN ax 20 MHz, low, 1GHz - 26GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, low, 1GHz - 26GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, low, 1GHz - 26GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, low, 1GHz - 26GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, low, 26GHz - 40GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, low, 26GHz - 40GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, low, 26GHz - 40GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, low, 26GHz - 40GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, low, 30MHz - 1GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, low, 30MHz - 1GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, low, 30MHz - 1GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, low, 30MHz - 1GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, low, 9kHz - 30MHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, low, 9kHz - 30MHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, low, 9kHz - 30MHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, low, 9kHz - 30MHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, mid, 1GHz - 26GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, mid, 1GHz - 26GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, mid, 1GHz - 26GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, mid, 1GHz - 26GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, mid, 26GHz - 40GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, mid, 26GHz - 40GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed

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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 (radiated); 12.7.5,12.7.6,12.7.7.2 (conducted) **Final Result**

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Measurement range, Subband				
WLAN ax 20 MHz, mid, 26GHz - 40GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, mid, 26GHz - 40GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, mid, 30MHz - 1GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, mid, 30MHz - 1GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, mid, 30MHz - 1GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, mid, 30MHz - 1GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, mid, 9kHz - 30MHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, mid, 9kHz - 30MHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, mid, 9kHz - 30MHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN ax 20 MHz, mid, 9kHz - 30MHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN n 20 MHz, high, 1GHz - 26GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN n 20 MHz, high, 1GHz - 26GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN n 20 MHz, high, 1GHz - 26GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN n 20 MHz, high, 1GHz - 26GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN n 20 MHz, low, 1GHz - 26GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN n 20 MHz, low, 1GHz - 26GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN n 20 MHz, low, 1GHz - 26GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN n 20 MHz, low, 1GHz - 26GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN n 20 MHz, mid, 1GHz - 26GHz, U-NII-1 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN n 20 MHz, mid, 1GHz - 26GHz, U-NII-2A Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN n 20 MHz, mid, 1GHz - 26GHz, U-NII-2C Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed
WLAN n 20 MHz, mid, 1GHz - 26GHz, U-NII-3 Remark: Measurement Method Conducted	S01_BC01	2025-07-24	Passed	Passed

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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 (radiated); 12.7.6, 12.7.7.2 (conducted)

Final Result

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN a, high, U-NII-2A Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN a, high, U-NII-2A Remark: Measurement Method Radiated with 50 Ohm termination	S02_BG03	2025-06-27	Passed	Passed
WLAN a, high, U-NII-2C Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN a, high, U-NII-2C Remark: Measurement Method Radiated with 50 Ohm termination	S02_BG03	2025-07-04	Passed	Passed
WLAN a, high, U-NII-3 Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN a, high, U-NII-3 Remark: Measurement Method Radiated with 50 Ohm termination	S02_BG03	2025-07-04	Passed	Passed
WLAN a, low, U-NII-1 Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN a, low, U-NII-1 Remark: Measurement Method Radiated with 50 Ohm termination	S02_BG03	2025-06-26	Passed	Passed
WLAN a, low, U-NII-2C Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN a, low, U-NII-2C Remark: Measurement Method Radiated with 50 Ohm termination	S02_BG03	2025-06-27	Passed	Passed
WLAN a, low, U-NII-3 Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN ac 20 MHz, high, U-NII-2A Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN ac 20 MHz, high, U-NII-2C Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN ac 20 MHz, high, U-NII-3 Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN ac 20 MHz, low, U-NII-1 Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN ac 20 MHz, low, U-NII-2C Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN ac 20 MHz, low, U-NII-3 Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2A Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, high, U-NII-2C Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, high, U-NII-3 Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, low, U-NII-1 Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed

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Band Edge

The measurement was performed according to ANSI C63.10,
 chapter 6.6.5 (radiated); 12.7.6, 12.7.7.2 (conducted)

Final Result

OP-Mode	Setup	Date	FCC	IC
Radio Technology, Operating Frequency, Subband				
WLAN ax 20 MHz, low, U-NII-2C Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN ax 20 MHz, low, U-NII-3 Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN n 20 MHz, high, U-NII-2A Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN n 20 MHz, high, U-NII-2C Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN n 20 MHz, high, U-NII-3 Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN n 20 MHz, low, U-NII-1 Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN n 20 MHz, low, U-NII-2C Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	Passed	Passed
WLAN n 20 MHz, low, U-NII-3 Remark: Measurement Method: Conducted	S01_BC01	2025-04-30	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	2025-10-21	--	valid
rev01	2025-11-13	Moved 6 GHz results to report MDE_UBLOX_2408_FCC_09	valid
rev02	2025-12-11	Added comment to chapter 4.1 that gain is of the embedded antenna, removed Band 4 from chapter 4.6	valid

COMMENT: According to the applicant, the variant MAYA-W381, which has already fully been tested, is identical in regards to the WLAN 5 GHz transmitter section. Due to this only spot checks have been performed. See report MDE_UBLOX_2408_FCC_02 for the results of variant W381.



(responsible for accreditation scope)
Dipl.-Ing. Marco Kullik



(responsible for testing and report)
Dipl.-Ing. Daniel Gall



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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-12140-01-00
FCC Designation Number: DE0015
FCC Test Firm Registration: 929146
ISED CAB Identifier DE0007; ISED#: 3699A

Responsible for accreditation scope: Dipl.-Ing. Marco Kullik
Report Template Version: 2025-02-28

3.2 PROJECT DATA

Responsible for testing and report: Dipl.-Ing. Daniel Gall
Employees who performed the tests: documented internally at 7Layers
Date of Report: 2025-12-11
Testing Period: 2025-04-30 to 2025-10-06

3.3 APPLICANT DATA

Company Name: u-blox AG
Address: Zürcherstrasse 68
8800 Thalwil
Switzerland
Contact Person: Filip Kruzela

3.4 MANUFACTURER DATA

Company Name: please see Applicant Data

Address:

Contact Person:

4 TEST OBJECT DATA

4.1 GENERAL EUT DESCRIPTION

Kind of Device product description	Host-based module with WLAN and Bluetooth technology																																																																																																																																																														
Product name	MAYA-W386																																																																																																																																																														
Type	MAYA-W386-00B																																																																																																																																																														
Declared EUT data by the supplier																																																																																																																																																															
Voltage Type	DC																																																																																																																																																														
Voltage Level	1.8 / 3.3 V																																																																																																																																																														
Tested Modulation Type	OFDM																																																																																																																																																														
Specific product description	The EUT is a Bluetooth and WLAN module. Supported technologies relevant for this report are WLAN a, n, ac, ax 20 MHz bandwidth. For ax mode OFDMA MU is supported. U-NII bands 1 and 2A are indoor only. In the DFS bands, the EUT can be used as Client without radar detection only.																																																																																																																																																														
Ports of the device	Enclosure Data DC Antenna The EUT is a module with solder pads for surface mounting, so no cables were connected to the EUT itself.																																																																																																																																																														
Antenna / Gain	External or integral / 2.4 dBi (gain of embedded antenna) in U-NII bands 1 to 3. (For radiated tests antenna ports are terminated by 50 Ohm terminations)																																																																																																																																																														
Tested Datarates	WLAN a: 6 Mbps, n: MCS0, ac: MCS 0, ax: MSC 0																																																																																																																																																														
Special software used for testing	Scripts provided on a computer board by the applicant.																																																																																																																																																														
Used output power setting in test software	<table><tr><th colspan="28">5 GHz</th></tr><tr><th>Mode Ch.</th><th>36</th><th>40</th><th>44</th><th>48</th><th>52</th><th>56</th><th>60</th><th>64</th><th>100</th><th>104</th><th>108</th><th>112</th><th>116</th><th>120</th><th>124</th><th>128</th><th>132</th><th>136</th><th>140</th><th>144</th><th>149</th><th>153</th><th>157</th><th>161</th><th>165</th></tr><tr><td>A</td><td>14</td><td>14</td><td>14</td><td>14</td><td>15</td><td>15</td><td>15</td><td>14</td><td>14</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>14</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td></tr><tr><td>N20 SISO</td><td>14</td><td>14</td><td>14</td><td>14</td><td>15</td><td>15</td><td>15</td><td>14</td><td>12</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>11</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td></tr><tr><td>Ac20 SISO</td><td>14</td><td>14</td><td>14</td><td>14</td><td>15</td><td>15</td><td>15</td><td>14</td><td>13</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>13</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td></tr><tr><td>Ax20 SISO</td><td>14</td><td>14</td><td>14</td><td>14</td><td>15</td><td>15</td><td>15</td><td>14</td><td>13</td><td>14</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>12</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td><td>15</td></tr></table>	5 GHz																												Mode Ch.	36	40	44	48	52	56	60	64	100	104	108	112	116	120	124	128	132	136	140	144	149	153	157	161	165	A	14	14	14	14	15	15	15	14	14	15	15	15	15	15	15	15	15	15	14	15	15	15	15	15	15	N20 SISO	14	14	14	14	15	15	15	14	12	15	15	15	15	15	15	15	15	15	11	15	15	15	15	15	15	Ac20 SISO	14	14	14	14	15	15	15	14	13	15	15	15	15	15	15	15	15	15	13	15	15	15	15	15	15	Ax20 SISO	14	14	14	14	15	15	15	14	13	14	15	15	15	15	15	15	15	15	12	15	15	15	15	15	15
5 GHz																																																																																																																																																															
Mode Ch.	36	40	44	48	52	56	60	64	100	104	108	112	116	120	124	128	132	136	140	144	149	153	157	161	165																																																																																																																																						
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N20 SISO	14	14	14	14	15	15	15	14	12	15	15	15	15	15	15	15	15	15	11	15	15	15	15	15	15																																																																																																																																						
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Ax20 SISO	14	14	14	14	15	15	15	14	13	14	15	15	15	15	15	15	15	15	12	15	15	15	15	15	15																																																																																																																																						

4.2 EUT MAIN COMPONENTS

Sample Name	Sample Code	Description
EUT 386 bc01	DE1015193bc01	
Sample Parameter	Value	
Serial No.	CC9B8F44FA439340200	
HW Version	W3A	
SW Version	28.10.387.10	
Comment		

Sample Name	Sample Code	Description
EUT 386 bg03	DE1015193bg03	
Sample Parameter	Value	
Serial No.	CC9B8F44FA439640200	
HW Version	W3A	
SW Version	28.10.387.10	
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.

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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
Control board 1	Radxa, ROCK 5B, v1.46, -, 1	Mini host layer PC

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_BC01	EUT 386 bc01, Control board 1,	Conducted Setup
S02_BG03	EUT 386 bg03,	Radiated Setup

4.6 OPERATING MODES / TEST CHANNELS

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

U-NII-Subband 1 5150 - 5250 MHz			U-NII-Subband 2A 5250 - 5350 MHz			U-NII-Subband 2C 5470 - 5725 MHz			U-NII 2 / 3	U-NII-Subband 3 5725 - 5850 MHz		
20 MHz BW												
low	mid	high	low	mid	high	low	mid	high	straddle	low	mid	high
36	40	48	52	60	64	100	116	140	144	149	157	165
5180	5200	5240	5260	5300	5320	5500	5580	5700	5720	5745	5785	5825

For Duty Cycle plots and worst case data rate considerations see Test Report MDE_UBLOX_2408_FCC_02

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 12.5.2

5.1.1 TEST DESCRIPTION

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

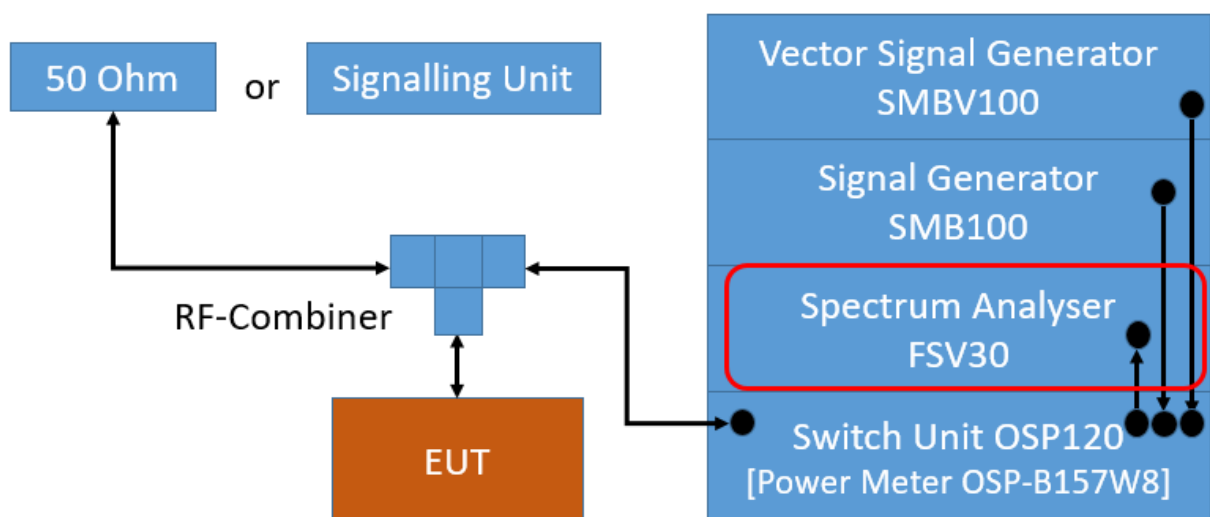
The reference level is the level of the highest amplitude signal observed from the transmitter at either the fundamental frequency or first-order modulation products in all typical modes of operation, including the unmodulated carrier, even if atypical.

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): 1% to 5% of the emission bandwidth
- Video Bandwidth (VBW): > RBW
- Span: see example plots
- Trace: Maxhold
- Sweeps: see plots
- Sweep time: 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: 21 - 23 °C

Air Pressure: 45 - 56 hPa

Humidity: 1005 - 1016 %

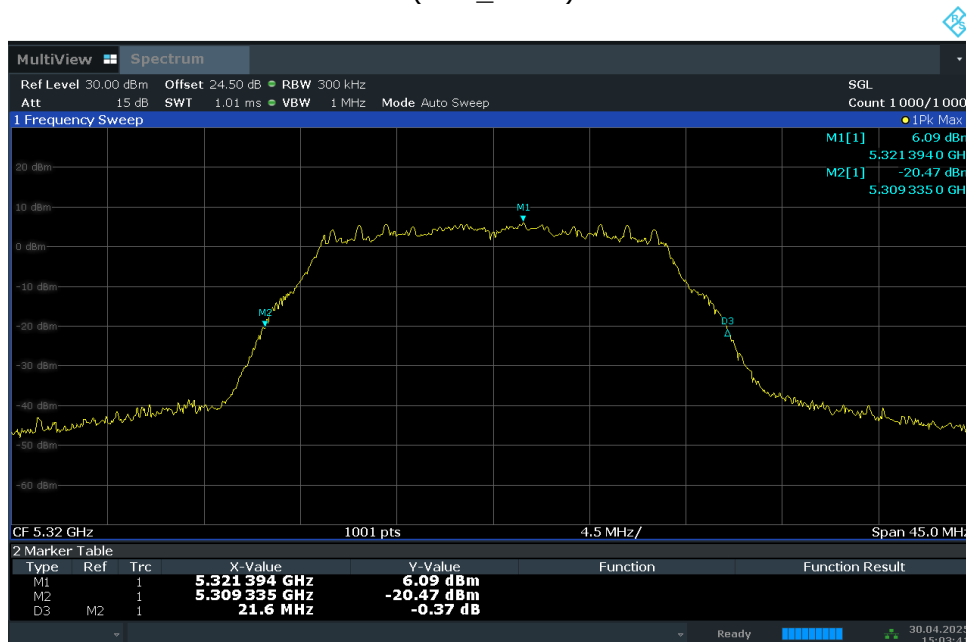
Radio Technology	Subband	Operating Frequency	26 dB Bandwidth [MHz]
WLAN a	U-NII-1	low	21.6
WLAN a	U-NII-1	mid	21.6
WLAN a	U-NII-1	high	21.6
WLAN a	U-NII-2A	low	21.9
WLAN a	U-NII-2A	mid	21.6
WLAN a	U-NII-2A	high	21.6
WLAN a	U-NII-2C	low	21.6
WLAN a	U-NII-2C	mid	21.6
WLAN a	U-NII-2C	high	21.6
WLAN a	U-NII-2C/3	straddle	15.7
WLAN ax 20 MHz	U-NII-1	low	21.8
WLAN ax 20 MHz	U-NII-1	mid	21.6
WLAN ax 20 MHz	U-NII-1	high	21.6
WLAN ax 20 MHz	U-NII-2A	low	21.8
WLAN ax 20 MHz	U-NII-2A	mid	21.6
WLAN ax 20 MHz	U-NII-2A	high	22.0
WLAN ax 20 MHz	U-NII-2C	low	21.8
WLAN ax 20 MHz	U-NII-2C	mid	21.8
WLAN ax 20 MHz	U-NII-2C	high	21.6
WLAN ax 20 MHz	U-NII-2C/3	straddle	15.9

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

For straddle channels the values given are partial 26 dB BW in lower/higher band.

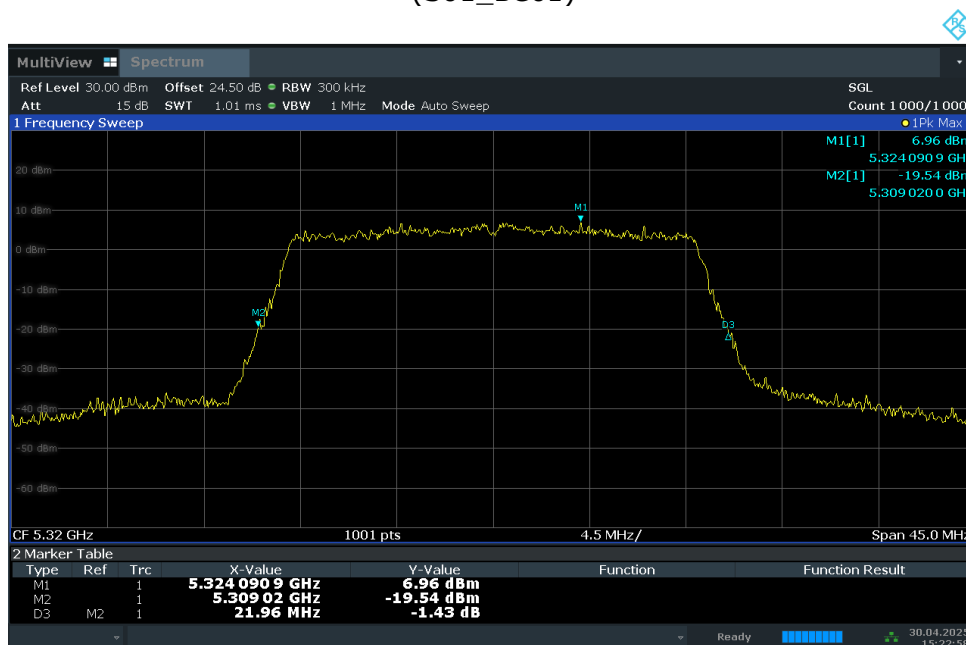
5.1.4 MEASUREMENT PLOT (EXAMPLE PLOT, SHOWING WORST CASE, IF APPLICABLE)

Radio Technology = WLAN a, Operating Frequency = high, Subband = U-NII-2A (S01_BC01)



15:03:41 30.04.2025

Radio Technology = WLAN ax 20 MHz, Operating Frequency = high, Subband = U-NII-2A (S01_BC01)



15:22:58 30.04.2025

5.1.5 TEST EQUIPMENT USED

- R&S TS8997

5.2 6 DB BANDWIDTH

Standard **FCC Part 15 Subpart E**

The test was performed according to:
 ANSI C63.10, chapter 12.5.1

5.2.1 TEST DESCRIPTION

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

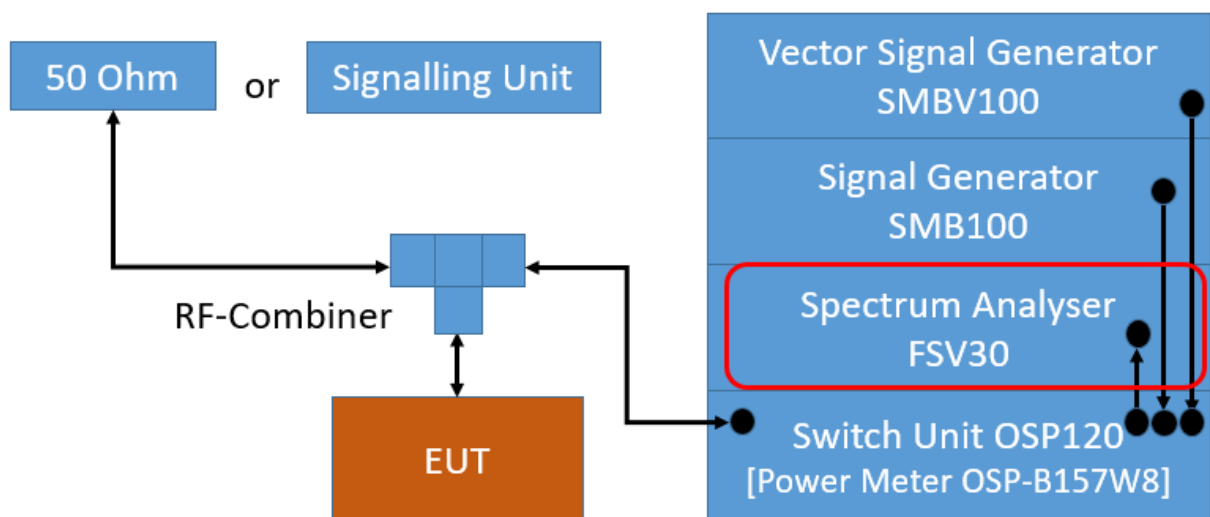
The reference level is the level of the highest amplitude signal observed from the transmitter at either the fundamental frequency or first-order modulation products in all typical modes of operation, including the unmodulated carrier, even if atypical.

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: see plots
- Trace: Maxhold
- Sweeps: see plots
- Sweeptime: Auto
- Detector: Peak



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

5.2.2 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.

5.2.3 TEST PROTOCOL

Ambient temperature: 21 - 23 °C
 Air Pressure: 45 - 56 hPa
 Humidity: 1005 - 1016 %

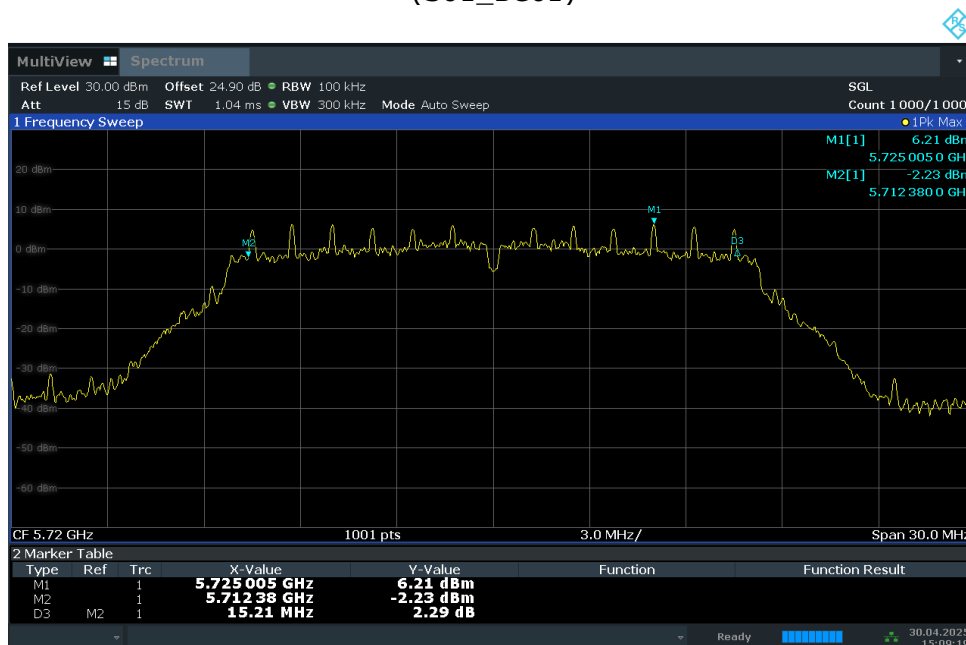
Radio Technology	Subband	Operating Frequency	6 dB Bandwidth [MHz]	Limit [MHz]	Margin [MHz]
WLAN a	U-NII-2C/3	straddle	2.6	0.5	2.09
WLAN a	U-NII-3	low	15.2	0.5	14.7
WLAN a	U-NII-3	mid	15.2	0.5	14.7
WLAN a	U-NII-3	high	15.2	0.5	14.7
WLAN ax 20 MHz	U-NII-2C/3	straddle	3.9	0.5	3.4
WLAN ax 20 MHz	U-NII-3	low	18.4	0.5	17.9
WLAN ax 20 MHz	U-NII-3	mid	18.7	0.5	18.2
WLAN ax 20 MHz	U-NII-3	high	18.4	0.5	17.9

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

For straddle channels U-NII-2C/3 the given 6 dB BW is the part that is inside of band 3 only.

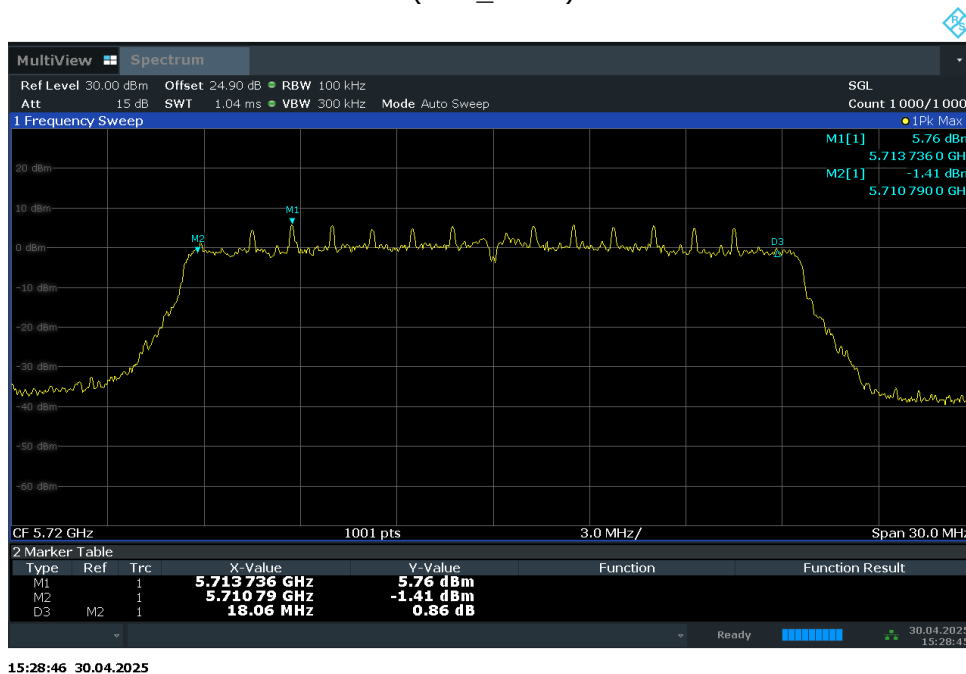
5.2.4 MEASUREMENT PLOT (EXAMPLE PLOT, SHOWING WORST CASE, IF APPLICABLE)

Radio Technology = WLAN a, Operating Frequency = straddle, Subband = U-NII-2C + U-NII-3
 (S01_BC01)



15:09:20 30.04.2025

Radio Technology = WLAN ax 20 MHz, Operating Frequency = straddle, Subband = U-NII-2C +
 U-NII-3
 (S01_BC01)



5.2.5 TEST EQUIPMENT USED

- R&S TS8997

5.3 99 % BANDWIDTH

Standard **FCC Part 15 Subpart E**

The test was performed according to:
 ANSI C63.10, chapter 12.5.3 (6.9.3)

5.3.1 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.

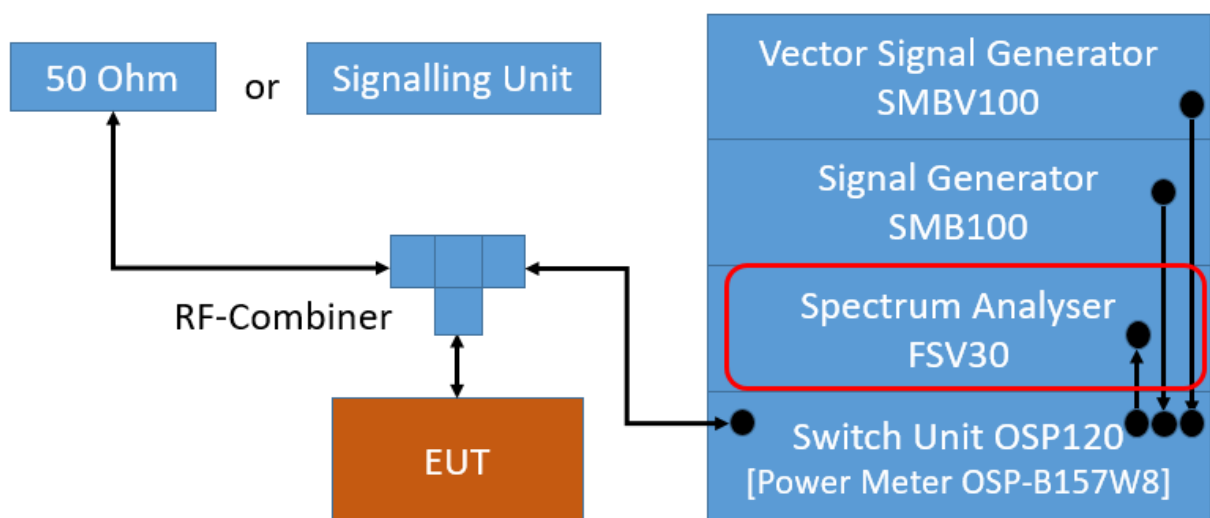
The results recorded were measured with the modulation which produce the worst-case (widest) emission bandwidth.

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): 1% to 5% of the OBW
- Video Bandwidth (VBW): ≥ 3 times the RBW
- Span: 1.5 to 5 times OBW
- Trace: Maxhold
- Sweeps: see plots
- 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 %

5.3.2 TEST REQUIREMENTS / LIMITS

No applicable limit.

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

5.3.3 TEST PROTOCOL

Ambient temperature: 21 - 23 °C
 Air Pressure: 45 - 56 hPa
 Humidity: 1005 - 1016 %

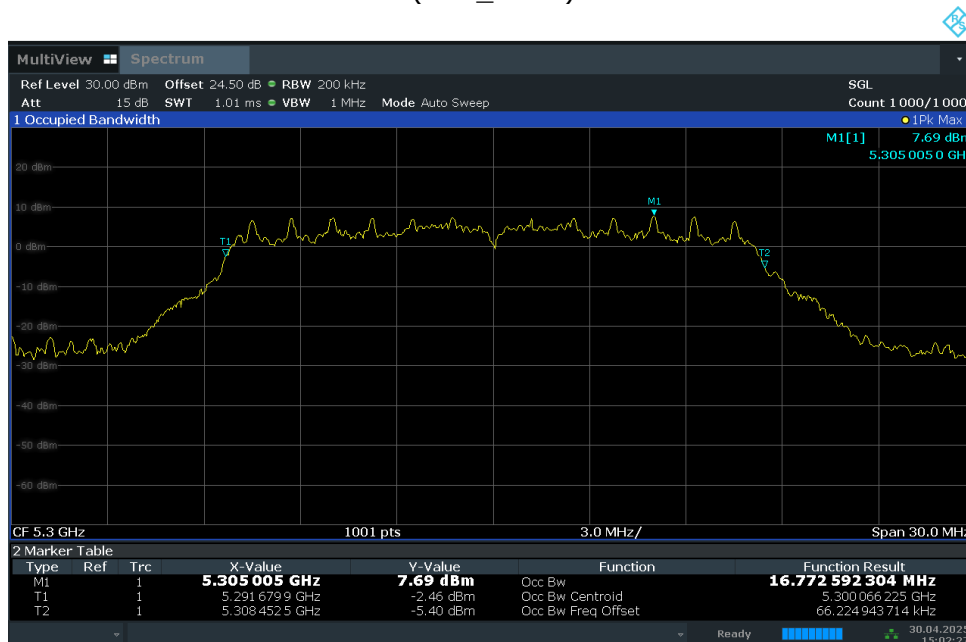
Radio Technology	Subband	Operating Frequency	99% Bandwidth [MHz]
WLAN a	U-NII-1	low	16.7
WLAN a	U-NII-1	mid	16.6
WLAN a	U-NII-1	high	16.7
WLAN a	U-NII-2A	low	16.7
WLAN a	U-NII-2A	mid	16.8
WLAN a	U-NII-2A	high	16.7
WLAN a	U-NII-2C	low	16.6
WLAN a	U-NII-2C	mid	16.7
WLAN a	U-NII-2C	high	16.7
WLAN a	U-NII-2C/3	straddle	13.3/3.3
WLAN a	U-NII-3	low	16.7
WLAN a	U-NII-3	mid	16.7
WLAN a	U-NII-3	high	16.7
WLAN ax 20 MHz	U-NII-1	low	19.0
WLAN ax 20 MHz	U-NII-1	mid	19.0
WLAN ax 20 MHz	U-NII-1	high	19.0
WLAN ax 20 MHz	U-NII-2A	low	19.0
WLAN ax 20 MHz	U-NII-2A	mid	19.0
WLAN ax 20 MHz	U-NII-2A	high	19.1
WLAN ax 20 MHz	U-NII-2C	low	19.0
WLAN ax 20 MHz	U-NII-2C	mid	19.0
WLAN ax 20 MHz	U-NII-2C	high	19.0
WLAN ax 20 MHz	U-NII-2C/3	straddle	14.5/4.5
WLAN ax 20 MHz	U-NII-3	low	19.0
WLAN ax 20 MHz	U-NII-3	mid	19.0
WLAN ax 20 MHz	U-NII-3	high	19.0

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

For straddle channels the values given are partial 99 % BW in lower/higher band.

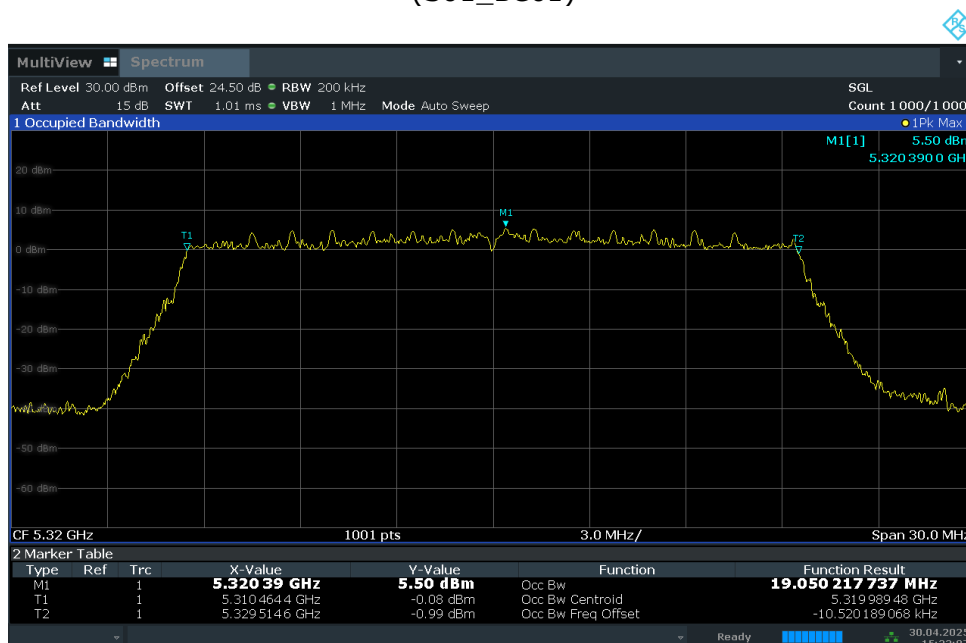
5.3.4 MEASUREMENT PLOT (EXAMPLE PLOT, SHOWING WORST CASE, IF APPLICABLE)

Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-2A (S01_BC01)



15:02:27 30.04.2025

Radio Technology = WLAN ax 20 MHz, Operating Frequency = high, Subband = U-NII-2A (S01_BC01)



15:23:07 30.04.2025

5.3.5 TEST EQUIPMENT USED

- R&S TS8997

5.4 MAXIMUM CONDUCTED OUTPUT POWER

Standard **FCC Part 15 Subpart E**

The test was performed according to:

ANSI C63.10, chapter 12.4.3.2

5.4.1 TEST DESCRIPTION

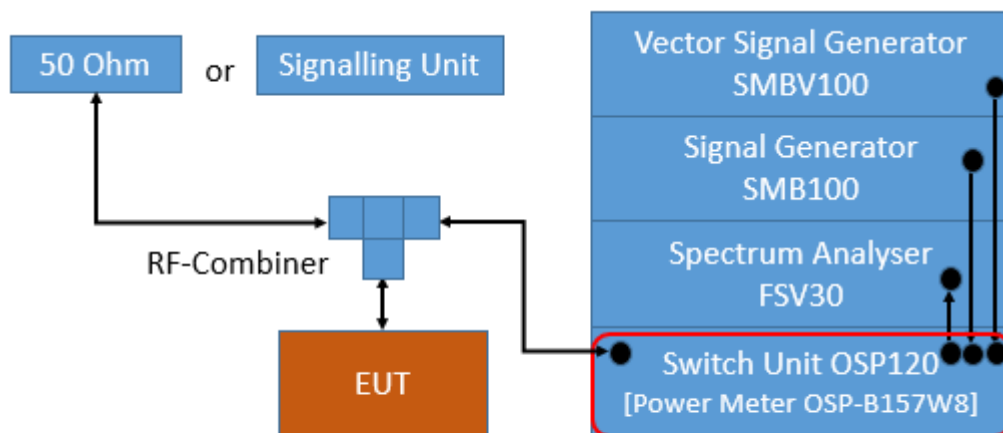
The Equipment Under Test (EUT) was set up to perform the output power measurements. The results recorded were measured with the modulation which produces the worst-case (highest) output power

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.

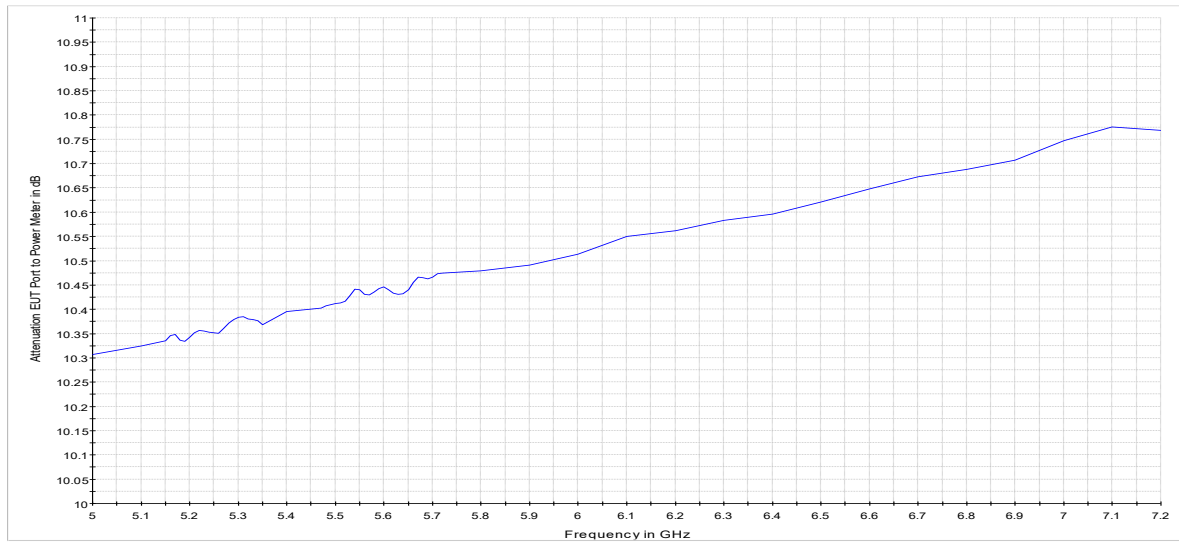
The OSP-B157W is a gated RF average power meter with a signal bandwidth > 300 MHz.

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

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 $11 \text{ dBm} + 10 \log (26 \text{ dB bandwidth/MHz})$ 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.

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. $-13 - 0.716 (\theta - 8)$ dBW/MHz for $8^\circ \leq \theta < 40^\circ$
- iii. $-35.9 - 1.22 (\theta - 40)$ 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: 21 - 23 °C
 Air Pressure: 45 - 56 hPa
 Humidity: 1005 - 1016 %
 WLAN a-Mode; 20 MHz; 6 Mbit/s

U-NII-band	Ch. No.	TX Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	FCC EIRP Limit [dBm]	Margin [dB]	ISED Cond. Limit [dBm]	Margin [dB]	ISED EIRP Limit [dBm]	Margin [dB]
1	36	5180	13.9	16.3	24.0	10.1	30.0	13.7	N/A	-	22.2	5.9
	40	5200	14.1	16.5	24.0	9.9	30.0	13.5	N/A	-	22.2	5.7
	48	5240	13.7	16.1	24.0	10.3	30.0	13.9	N/A	-	22.2	6.1
2A	52	5260	15.9	18.3	24.0	8.1	27.0	8.7	23.2	7.3	27.0	8.7
	60	5300	16.1	18.5	24.0	7.9	27.0	8.5	23.2	7.1	27.0	8.5
	64	5320	13.9	16.3	24.0	10.1	27.0	10.7	23.2	9.3	27.0	10.7
2C	100	5500	13.3	15.7	24.0	10.7	27.0	11.3	23.2	9.9	27.0	11.3
	116	5580	15.4	17.8	24.0	8.6	27.0	9.2	23.2	7.8	27.0	9.2
	140	5700	13.9	16.3	24.0	10.1	27.0	10.7	23.2	9.3	27.0	10.7
2C+3	144	5720	15.6	18.0	23.0	7.4	27.0	9.0	22.3	6.7	27.0	9.0
3	149	5745	14.9	17.3	30.0	15.1	36.0	18.7	30.0	15.1	36.0	18.7
	157	5785	15.2	17.6	30.0	14.8	36.0	18.4	30.0	14.8	36.0	18.4
	165	5825	14.7	17.1	30.0	15.3	36.0	18.9	30.0	15.3	36.0	18.9

WLAN n-Mode; 20 MHz; MCS 0; SISO

U-NII-band	Ch. No.	TX Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	FCC EIRP Limit [dBm]	Margin [dB]	ISED Cond. Limit [dBm]	Margin [dB]	ISED EIRP Limit [dBm]	Margin [dB]
1	36	5180	14.6	17.0	24.0	9.4	30.0	13.0	N/A	-	22.5	5.5
	40	5200	14.3	16.7	24.0	9.7	30.0	13.3	N/A	-	22.5	5.8
	48	5240	13.9	16.3	24.0	10.1	30.0	13.7	N/A	-	22.5	6.2
2A	52	5260	16.0	18.4	24.0	8.0	27.0	8.6	23.5	7.5	27.0	8.6
	60	5300	16.2	18.7	24.0	7.8	27.0	8.3	23.5	7.2	27.0	8.3
	64	5320	13.9	16.3	24.0	10.1	27.0	10.7	23.5	9.6	27.0	10.7
2C	100	5500	12.1	14.5	24.0	11.9	27.0	12.5	23.5	11.4	27.0	12.5
	116	5580	15.5	17.9	24.0	8.5	27.0	9.1	23.5	8.0	27.0	9.1
	140	5700	11.6	14.0	24.0	12.4	27.0	13.0	23.5	11.9	27.0	13.0
2C+3	144	5720	15.9	18.3	23.0	7.1	27.0	8.7	22.4	6.5	27.0	8.7
3	149	5745	14.9	17.3	30.0	15.1	36.0	18.7	30.0	15.1	36.0	18.7
	157	5785	14.8	17.2	30.0	15.2	36.0	18.8	30.0	15.2	36.0	18.8
	165	5825	15.0	17.4	30.0	15.0	36.0	18.6	30.0	15.0	36.0	18.6

WLAN ac-Mode; 20 MHz; MCS 0; SISO

U-NII-band	Ch. No.	TX Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	FCC EIRP Limit [dBm]	Margin [dB]	ISED Cond. Limit [dBm]	Margin [dB]	ISED EIRP Limit [dBm]	Margin [dB]
1	36	5180	14.2	16.7	24.0	9.8	30.0	13.3	N/A	-	22.5	5.8
	40	5200	14.5	16.9	24.0	9.5	30.0	13.1	N/A	-	22.5	5.6
	48	5240	14.0	16.4	24.0	10.0	30.0	13.6	N/A	-	22.5	6.1
2A	52	5260	16.3	18.7	24.0	7.7	27.0	8.3	23.5	7.2	27.0	8.3
	60	5300	16.4	18.8	24.0	7.6	27.0	8.2	23.5	7.1	27.0	8.2
	64	5320	13.6	16.0	24.0	10.4	27.0	11.0	23.5	9.9	27.0	11.0
2C	100	5500	13.1	15.5	24.0	10.9	27.0	11.5	23.5	10.4	27.0	11.5
	116	5580	15.4	17.8	24.0	8.6	27.0	9.2	23.5	8.1	27.0	9.2
	140	5700	13.4	15.8	24.0	10.6	27.0	11.2	23.5	10.1	27.0	11.2
2C+3	144	5720	15.7	18.2	23.1	7.3	27.0	8.8	22.4	6.7	27.0	8.8
3	149	5745	14.9	17.3	30.0	15.1	36.0	18.7	30.0	15.1	36.0	18.7
	157	5785	14.9	17.3	30.0	15.1	36.0	18.7	30.0	15.1	36.0	18.7
	165	5825	14.8	17.2	30.0	15.2	36.0	18.8	30.0	15.2	36.0	18.8

WLAN ax-Mode; 20 MHz; MCS 0; SISO

U- NII- band	Ch. No.	TX Freq. [MHz]	Cond. Power [dBm]	EIRP [dBm]	FCC Cond. Limit [dBm]	Margin [dB]	FCC EIRP Limit [dBm]	Margin [dB]	ISED Cond. Limit [dBm]	Margin [dB]	ISED EIRP Limit [dBm]	Margin [dB]
1	36	5180	14.0	16.4	24.0	10.0	30.0	13.6	N/A	-	22.8	6.4
	40	5200	14.2	16.6	24.0	9.8	30.0	13.4	N/A	-	22.8	6.1
	48	5240	14.2	16.6	24.0	9.8	30.0	13.4	N/A	-	22.8	6.2
2A	52	5260	16.2	18.6	24.0	7.8	27.0	8.4	23.8	7.6	27.0	8.4
	60	5300	16.4	18.8	24.0	7.6	27.0	8.2	23.8	7.4	27.0	8.2
	64	5320	14.1	16.5	24.0	9.9	27.0	10.5	23.8	9.7	27.0	10.5
2C	100	5500	13.3	15.7	24.0	10.7	27.0	11.3	23.8	10.5	27.0	11.3
	116	5580	15.4	17.8	24.0	8.6	27.0	9.2	23.8	8.4	27.0	9.2
	140	5700	12.4	14.8	24.0	11.6	27.0	12.2	23.8	11.4	27.0	12.2
2C+3	144	5720	15.8	18.2	23.0	7.2	27.0	8.8	22.6	6.8	27.0	8.8
3	149	5745	14.9	17.3	30.0	15.1	36.0	18.7	30.0	15.1	36.0	18.7
	157	5785	14.8	17.3	30.0	15.2	36.0	18.7	30.0	15.2	36.0	18.7
	165	5825	14.9	17.3	30.0	15.1	36.0	18.7	30.0	15.1	36.0	18.7

Remark: Power Meter Measurement, no measurement plots provided.

5.4.4 POWER COMPARISON

Mode	Band	Channel	Power Maya-W381	Power Maya-W386	Deviation [dB]
WLAN a	U-NII-1	low	14.4	13.9	-0.5
WLAN a	U-NII-1	mid	14.6	14.1	-0.5
WLAN a	U-NII-1	high	14.1	13.7	-0.4
WLAN a	U-NII-2A	low	16.5	15.9	-0.6
WLAN a	U-NII-2A	mid	16.5	16.1	-0.4
WLAN a	U-NII-2A	high	14.2	13.9	-0.3
WLAN a	U-NII-2C	low	14.0	13.3	-0.7
WLAN a	U-NII-2C	mid	15.7	15.4	-0.3
WLAN a	U-NII-2C	high	14.4	13.9	-0.5
WLAN a	U-NII-2C/3	straddle	16.3	15.6	-0.7
WLAN a	U-NII-3	low	15.2	14.9	-0.4
WLAN a	U-NII-3	mid	15.2	15.2	0.0
WLAN a	U-NII-3	high	15.3	14.7	-0.6
WLAN n 20 MHz	U-NII-1	low	14.5	14.6	0.1
WLAN n 20 MHz	U-NII-1	mid	14.5	14.3	-0.2
WLAN n 20 MHz	U-NII-1	high	14.8	13.9	-0.9
WLAN n 20 MHz	U-NII-2A	low	16.4	16.0	-0.4
WLAN n 20 MHz	U-NII-2A	mid	16.6	16.2	-0.3
WLAN n 20 MHz	U-NII-2A	high	14.2	13.9	-0.3
WLAN n 20 MHz	U-NII-2C	low	12.4	12.1	-0.3
WLAN n 20 MHz	U-NII-2C	mid	15.7	15.5	-0.2
WLAN n 20 MHz	U-NII-2C	high	12.2	11.6	-0.5
WLAN n 20 MHz	U-NII-2C/3	straddle	16.3	15.9	-0.4
WLAN n 20 MHz	U-NII-3	low	15.3	14.9	-0.5
WLAN n 20 MHz	U-NII-3	mid	15.1	14.8	-0.3
WLAN n 20 MHz	U-NII-3	high	15.4	15.0	-0.4
WLAN ac 20 MHz	U-NII-1	low	14.4	14.2	-0.2
WLAN ac 20 MHz	U-NII-1	mid	14.5	14.5	0.0
WLAN ac 20 MHz	U-NII-1	high	14.2	14.0	-0.2
WLAN ac 20 MHz	U-NII-2A	low	16.5	16.3	-0.3
WLAN ac 20 MHz	U-NII-2A	mid	16.7	16.4	-0.3
WLAN ac 20 MHz	U-NII-2A	high	14.8	13.6	-1.2
WLAN ac 20 MHz	U-NII-2C	low	13.4	13.1	-0.3
WLAN ac 20 MHz	U-NII-2C	mid	15.9	15.4	-0.5
WLAN ac 20 MHz	U-NII-2C	high	13.8	13.4	-0.5
WLAN ac 20 MHz	U-NII-2C/3	straddle	16.3	15.7	-0.5
WLAN ac 20 MHz	U-NII-3	low	15.4	14.9	-0.5
WLAN ac 20 MHz	U-NII-3	mid	15.3	14.9	-0.4
WLAN ac 20 MHz	U-NII-3	high	15.3	14.8	-0.4
WLAN ax 20 MHz	U-NII-1	low	14.5	14.0	-0.5
WLAN ax 20 MHz	U-NII-1	mid	14.8	14.2	-0.5
WLAN ax 20 MHz	U-NII-1	high	14.4	14.2	-0.2
WLAN ax 20 MHz	U-NII-2A	low	17.1	16.2	-0.9
WLAN ax 20 MHz	U-NII-2A	mid	16.9	16.4	-0.5
WLAN ax 20 MHz	U-NII-2A	high	14.6	14.1	-0.5
WLAN ax 20 MHz	U-NII-2C	low	13.4	13.3	-0.1
WLAN ax 20 MHz	U-NII-2C	mid	15.9	15.4	-0.5
WLAN ax 20 MHz	U-NII-2C	high	13.1	12.4	-0.7
WLAN ax 20 MHz	U-NII-2C/3	straddle	16.5	15.8	-0.7
WLAN ax 20 MHz	U-NII-3	low	15.6	14.9	-0.7
WLAN ax 20 MHz	U-NII-3	mid	15.4	14.8	-0.6
WLAN ax 20 MHz	U-NII-3	high	15.6	14.9	-0.7

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 12.6 (SA-1)

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.

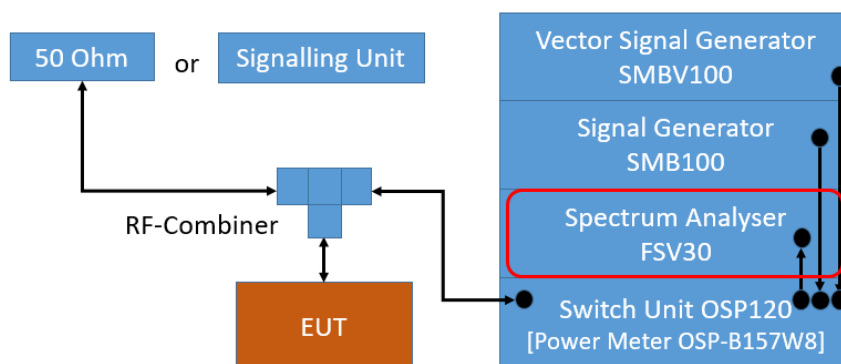
The EUT was connected to the test system as described in the block diagram below. The complete attenuation of the measurement path is known and considered.

Analyzer settings:

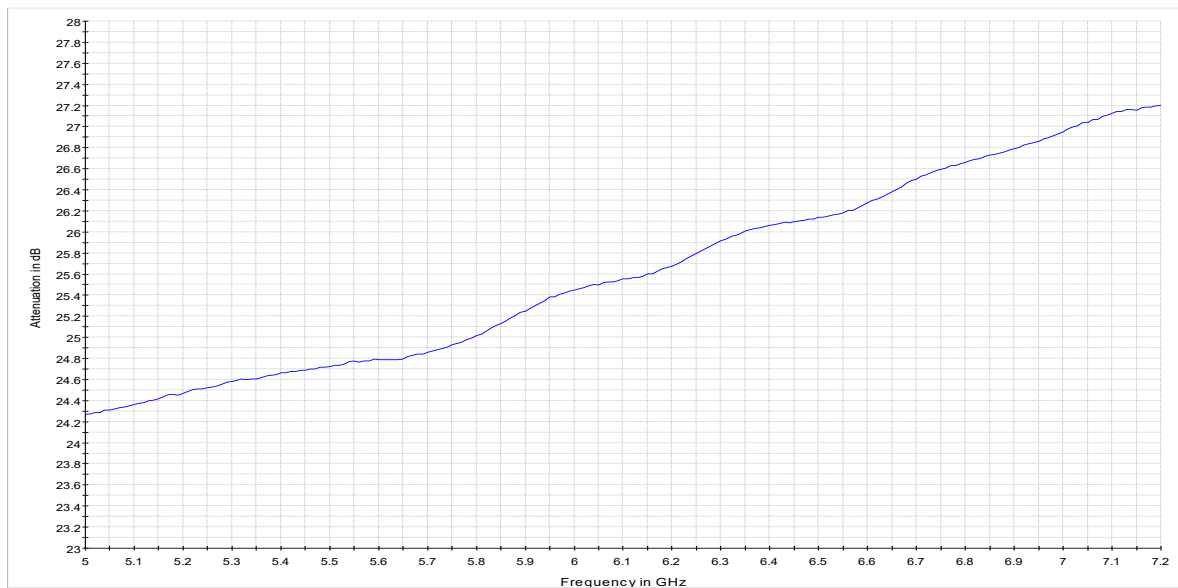
- Resolution Bandwidth (RBW): 1 MHz (for subband 3: 500 kHz)
- Video Bandwidth (VBW): 3 MHz (for subband 3: 2 MHz)
- Trace: Average (Power)
- Sweeps: see plots
- Sweep time: Auto
- Detector: RMS
- Trigger: free run

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

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.

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: 21 - 23 °C
 Air Pressure: 45 - 56 hPa
 Humidity: 1005 - 1016 %
 WLAN a-Mode; 20 MHz; 6 Mbit/s

U-NII-band	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	E.I.R.P MPSD [dBm/MHz]	FCC Limit [dBm/MHz] or [dBm/500kHz] in U-NII-3	Margin [dB]	ISED Limit [dBm/MHz] or [dBm/500kHz] in U-NII-3	Margin [dB]	ISED E.I.R.P limit [dBm/MHz] or [dBm/500kHz] in U-NII-3	Margin [dB]
1	36	5180	3.5	5.9	11.0	7.5	N/A	-	10.0	4.1
	40	5200	3.8	6.2	11.0	7.2	N/A	-	10.0	3.8
	48	5240	3.3	5.7	11.0	7.7	N/A	-	10.0	4.3
2A	52	5260	5.6	8.0	11.0	5.4	11.0	5.4	N/A	-
	60	5300	5.6	8.0	11.0	5.4	11.0	5.4	N/A	-
	64	5320	3.4	5.8	11.0	7.6	11.0	7.6	N/A	-
2C	100	5500	3.2	5.6	11.0	7.8	11.0	7.8	N/A	-
	116	5580	5.1	7.5	11.0	5.9	11.0	5.9	N/A	-
	140	5700	3.3	5.7	11.0	7.7	11.0	7.7	N/A	-
2C+3	144	5720	5.2	7.6	11.0	5.8	11.0	5.8	N/A	-
3	149	5745	1.4	3.9	30.0	28.6	30.0	28.6	N/A	-
	157	5785	1.1	3.5	30.0	28.9	30.0	28.9	N/A	-
	165	5825	1.5	3.9	30.0	28.5	30.0	28.5	N/A	-

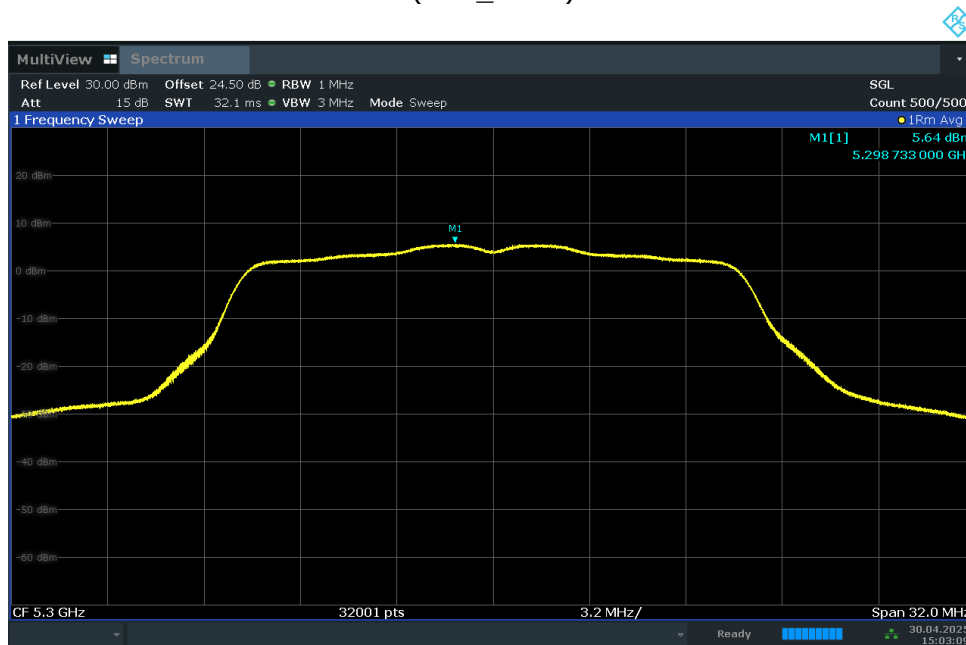
WLAN ax-Mode; 20 MHz; MCS 0; SISO

U-NII-band	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	E.I.R.P MPSD [dBm/MHz]	FCC Limit [dBm/MHz] or [dBm/500kHz] in U-NII-3	Margin [dB]	ISED Limit [dBm/MHz] or [dBm/500kHz] in U-NII-3	Margin [dB]	ISED E.I.R.P limit [dBm/MHz] or [dBm/500kHz] in U-NII-3	Margin [dB]
1	36	5180	2.8	5.3	11.0	8.2	N/A	-	10.0	4.7
	40	5200	3.1	5.5	11.0	7.9	N/A	-	10.0	4.5
	48	5240	2.9	5.3	11.0	8.1	N/A	-	10.0	4.7
2A	52	5260	4.9	7.4	11.0	6.1	11.0	6.1	N/A	-
	60	5300	5.1	7.5	11.0	5.9	11.0	5.9	N/A	-
	64	5320	2.9	5.3	11.0	8.1	11.0	8.1	N/A	-
2C	100	5500	2.2	4.6	11.0	8.8	11.0	8.8	N/A	-
	116	5580	4.5	6.9	11.0	6.5	11.0	6.5	N/A	-
	140	5700	1.2	3.6	11.0	9.8	11.0	9.8	N/A	-
2C+3	144	5720	4.7	7.1	11.0	6.3	11.0	6.3	N/A	-
3	149	5745	1.4	3.8	30.0	28.6	30.0	28.6	N/A	-
	157	5785	1.3	3.7	30.0	28.7	30.0	28.7	N/A	-
	165	5825	1.3	3.7	30.0	28.7	30.0	28.7	N/A	-

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

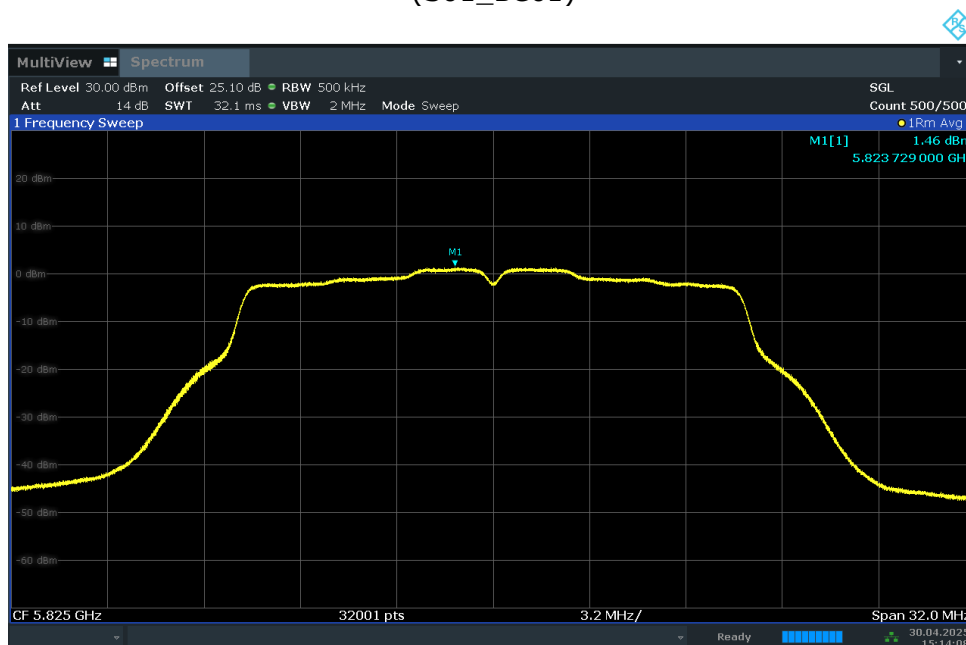
5.5.4 MEASUREMENT PLOT (EXAMPLE PLOT, SHOWING WORST CASE, IF APPLICABLE)

Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-2A (S01_BC01)



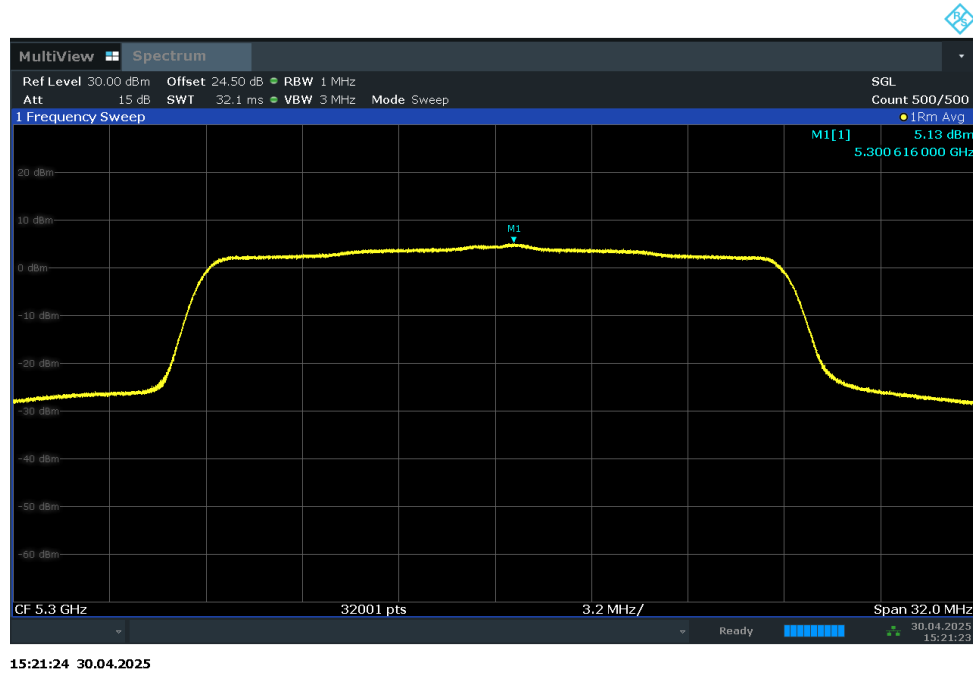
15:03:10 30.04.2025

Radio Technology = WLAN a, Operating Frequency = high, Subband = U-NII-3 (S01_BC01)

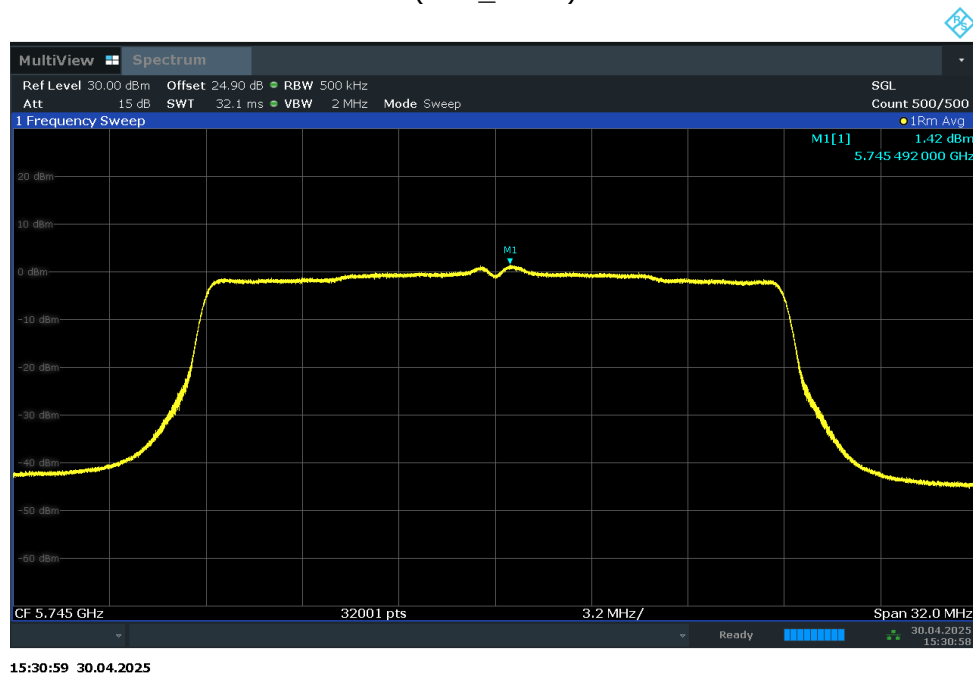


15:14:09 30.04.2025

Radio Technology = WLAN ax 20 MHz, Operating Frequency = mid, Subband = U-NII-2A
(S01_BC01)



Radio Technology = WLAN ax 20 MHz, Operating Frequency = low, Subband = U-NII-3
(S01_BC01)



5.5.5 TEST EQUIPMENT USED

- R&S TS8997

5.6 UNDESIRABLE EMISSIONS; GENERAL FIELD STRENGTH LIMITS

Standard **FCC Part 15 Subpart E**

Radiated Measurement Method:
The test was performed according to:
 ANSI C63.10, chapter 6.4, 6.5, 6.6.5

Conducted Measurement Method:
The test was performed according to:
 ANSI C63.10, chapter 12.7.5, 12.7.6, 12.7.7.2

5.6.1 TEST DESCRIPTION

Radiated Measurements with 50 Ohm termination at the antenna port:

The test set-up was made in accordance to the general provisions of ANSI C63.10 in a typical installation configuration. The measurements were performed according the following sub-chapters of ANSI C63.10:

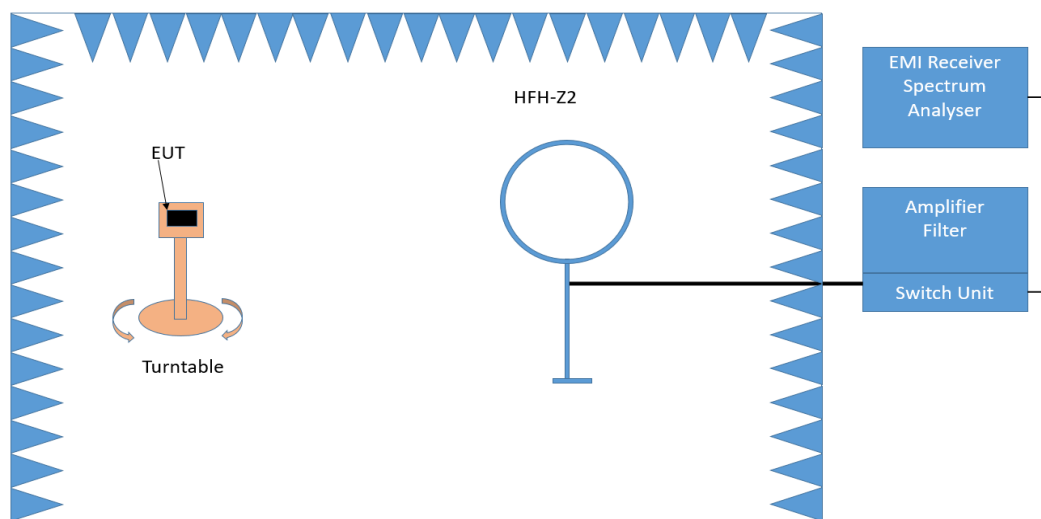
- < 30 MHz: Chapter 6.4
- 30 MHz – 1 GHz: Chapter 6.5
- > 1 GHz: Chapter 6.6 (procedure according 6.6.5 used)

The measurement procedure is implemented into the EMI test software EMC32 from R&S. Exploratory tests are performed at 3 orthogonal axes to determine the worst-case orientation of a body-worn or handheld EUT. The final test on all kind of EUTs is also performed at 3 axes. A pre-check is performed while the EUT is powered.

Below 1 GHz:

The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The influence of the EUT support table that is used between 30–1000 MHz was evaluated.

1. Measurement up to 30 MHz



Test Setup; Spurious Emission Radiated (SAC), 9 kHz – 30 MHz

The Loop antenna HFH2-Z2 is used.

Step 1: pre measurement

- Anechoic chamber
- Antenna distance: 3 m
- Detector: Peak-Maxhold
- Frequency range: 0.009 - 0.15 MHz and 0.15 - 30 MHz
- Frequency steps: 0.05 kHz and 2.25 kHz
- IF-Bandwidth: 0.2 kHz and 9 kHz
- Measuring time / Frequency step: 100 ms (FFT-based)

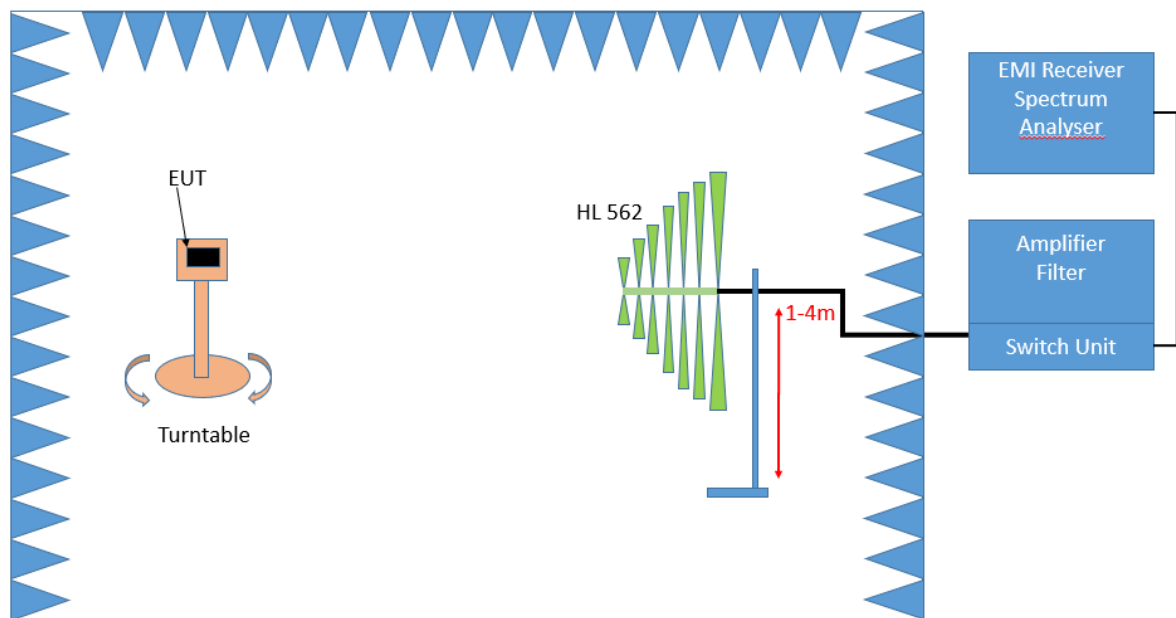
Intention of this step is, to determine the radiated EMI-profile of the EUT. Afterwards the relevant emissions for the final measurement are identified.

Step 2: final measurement

For the relevant emissions determined in step 1, an additional measurement with the following settings will be performed. Intention of this step is to find the maximum emission level.

- Open area test site
- Antenna distance: according to the Standard
- Detector: Quasi-Peak
- Frequency range: 0.009 - 30 MHz
- Frequency steps: measurement at frequencies detected in step 1
- IF-Bandwidth: 0.2 - 10 kHz
- Measuring time / Frequency step: 1 s

2. Measurement above 30 MHz and up to 1 GHz



Test Setup; Spurious Emission Radiated (SAC), 30 MHz- 1GHz

Step 1: Preliminary scan

This is a preliminary test to identify the highest amplitudes relative to the limit.

Settings for step 1:

- Antenna distance: 3 m
- Detector: Peak-Maxhold / Quasipeak (FFT-based)
- Frequency range: 30 - 1000 MHz
- Frequency steps: 30 kHz

- IF-Bandwidth: 120 kHz
- Measuring time / Frequency step: 100 ms
- Turntable angle range: -180° to 90°
- Turntable step size: 90°
- Height variation range: 1 – 4 m
- Height variation step size: 1.5 m
- Polarisation: Horizontal + Vertical

Intention of this step is, to determine the radiated EMI-profile of the EUT. Afterwards the relevant emissions for the final measurement are identified.

Step 2: Adjustment measurement

In this step the accuracy of the turntable azimuth and antenna height will be improved. This is necessary to find out the maximum value of every frequency.

For each frequency, which was determined the turntable azimuth and antenna height will be adjusted. The turntable azimuth will slowly vary by 360° . During this action, the value of emission is continuously measured. The turntable azimuth at the highest emission will be recorded and adjusted. In this position, the antenna height will also slowly vary by 1 – 4 meter. During this action, the value of emission is also continuously measured. The antenna height of the highest emission will also be recorded and adjusted.

- Detector: Peak – Maxhold
- Measured frequencies: in step 1 determined frequencies
- IF – Bandwidth: 120 kHz
- Measuring time: 100 ms
- Turntable angle range: 360°
- Height variation range: 1 – 4 m
- Antenna Polarisation: max. value determined in step 1

Step 3: Final measurement with QP detector

With the settings determined in step 2, the final measurement will be performed:

EMI receiver settings for step 3:

- Detector: Quasi-Peak (< 1 GHz)
- Measured frequencies: in step 1 determined frequencies
- IF – Bandwidth: 120 kHz
- Measuring time: 1 s

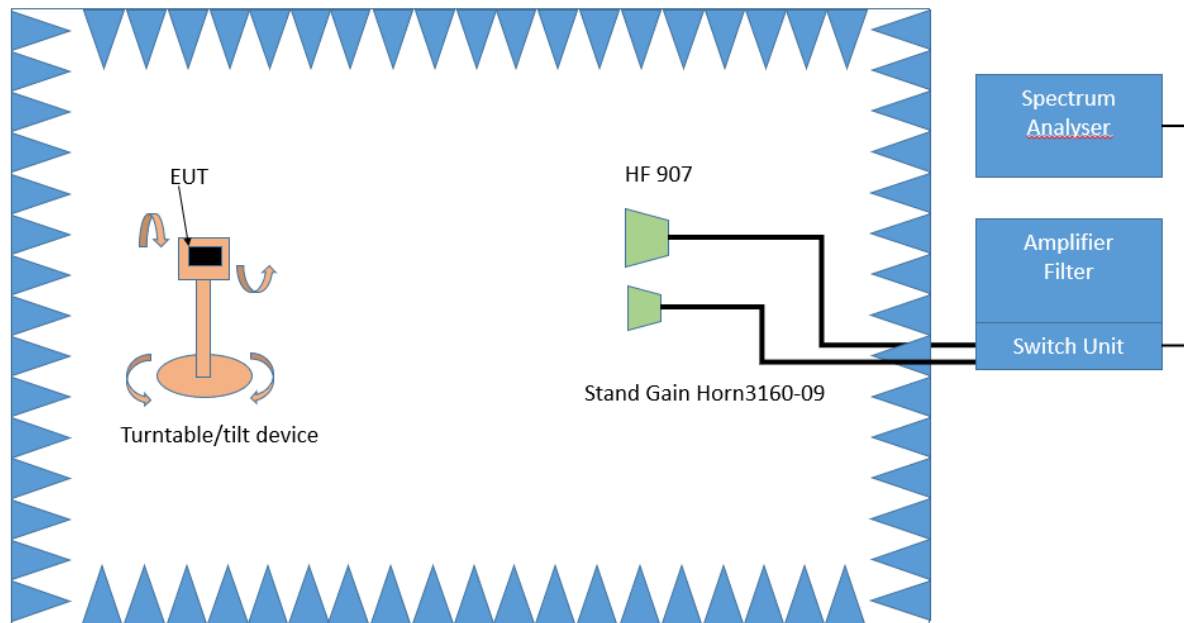
After the measurement a plot will be generated which contains a diagram with the results of the preliminary scan and a chart with the frequencies and values of the results of the final measurement.

Above 1 GHz:

The Equipment Under Test (EUT) was set up on a non-conductive support (tilt device) at 1.5 m height in the fully-anechoic chamber.

All steps were performed with one height (1.5 m) of the receiving antenna only.

3. Measurement 1 GHz up to 26.5 GHz



Test Setup; Spurious Emission Radiated (FAC), 1 GHz-26.5 GHz

Step 1:

The Equipment Under Test (EUT) was set up on a non-conductive support (tilt device) at 1.5 m height in the fully-anechoic chamber.

All steps were performed with one height (1.5 m) of the receiving antenna only.

The EUT is turned during the preliminary measurement across the elevation axis, with a step size of 90 °.

The turn table step size (azimuth angle) for the preliminary measurement is 45 °.

Step 2:

Due to the fact, that in this frequency range the test is performed in a fully anechoic room, the height scan of the receiving antenna in step 2 is omitted. Instead of this, a maximum search with a step size $\pm 45^\circ$ for the elevation axis is performed.

The turn table azimuth will slowly vary by $\pm 22.5^\circ$.

The elevation angle will slowly vary by $\pm 45^\circ$

EMI receiver settings (for all steps):

- Detector: Peak, Average
- IF Bandwidth = 1 MHz

Step 3:

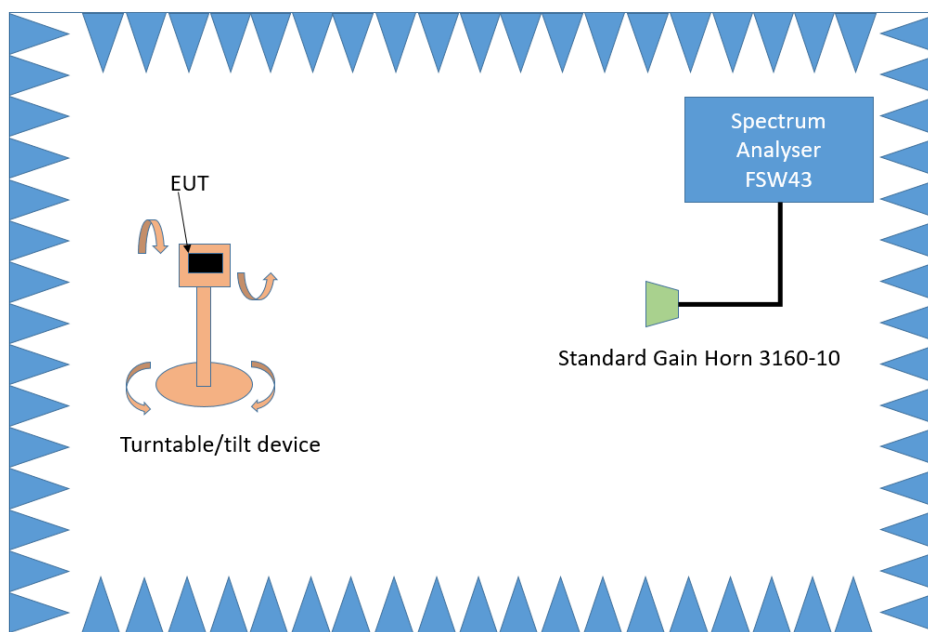
Spectrum analyser settings for step 3:

- Detector: Peak / Average
- Measured frequencies: in step 1 determined frequencies
- IF – Bandwidth: 1 MHz
- Measuring time: 1 s

4. Measurement above 26.5 GHz up to 40 GHz

The following modifications, compared to the frequency range 1 GHz – 26.5 GHz, apply to the measurement procedure for the frequency range above 26.5 GHz:

- Measurement distance: 1m

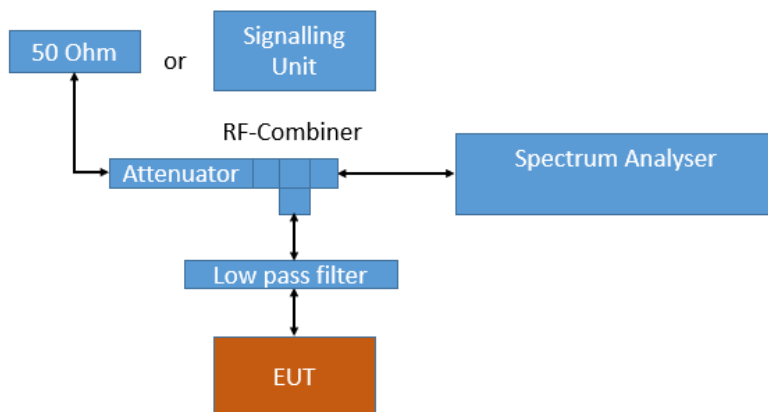


Test Setup; Spurious Emission Radiated (FAC), 26.5 – 40 GHz

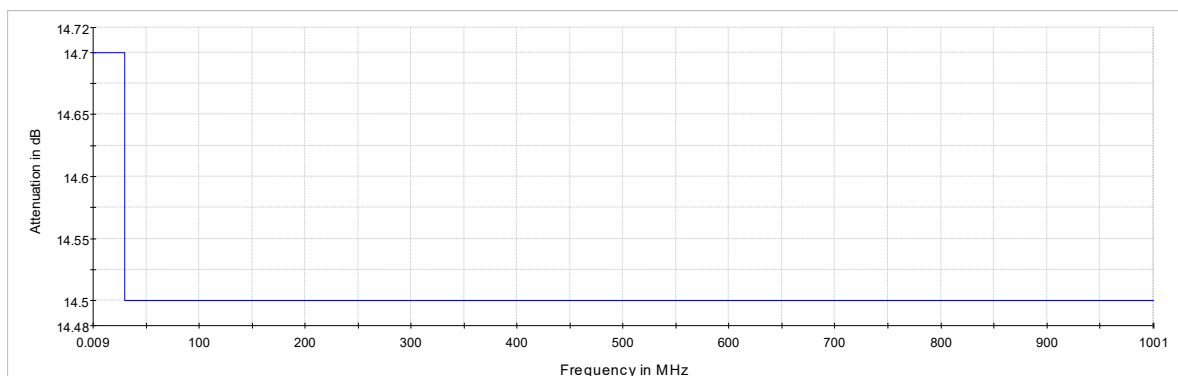
Conducted Measurements at antenna ports:

The Equipment Under Test (EUT) was set up to perform the spurious emissions measurements.

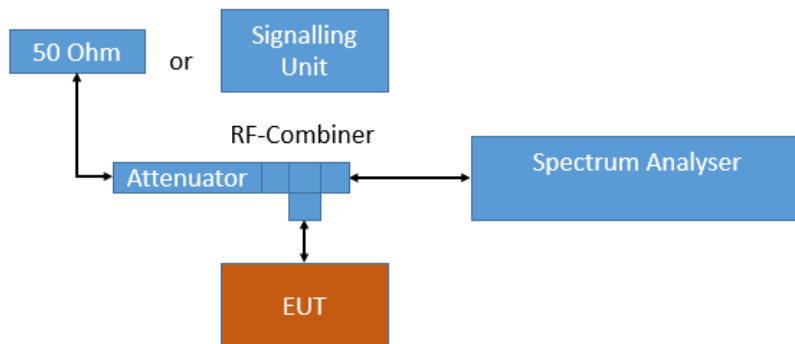
The EUT was connected to the test system as described in the block diagram below. The complete attenuation of the measurement path is known and considered.



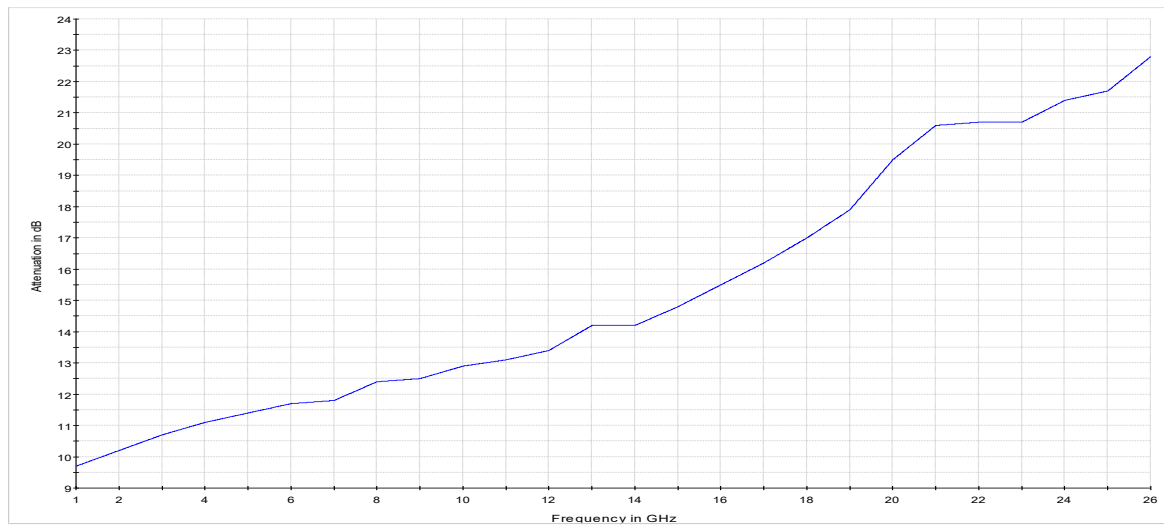
Measurement <1GHz: Path Attenuation Transducer DUT1_3dB_TP2000



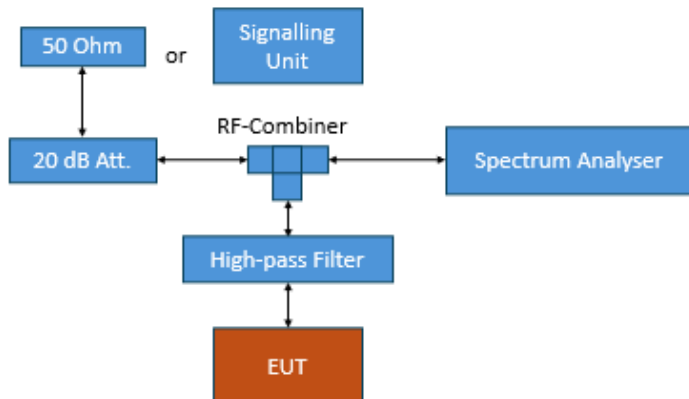
Transducer DUT1_3dB_TP2000



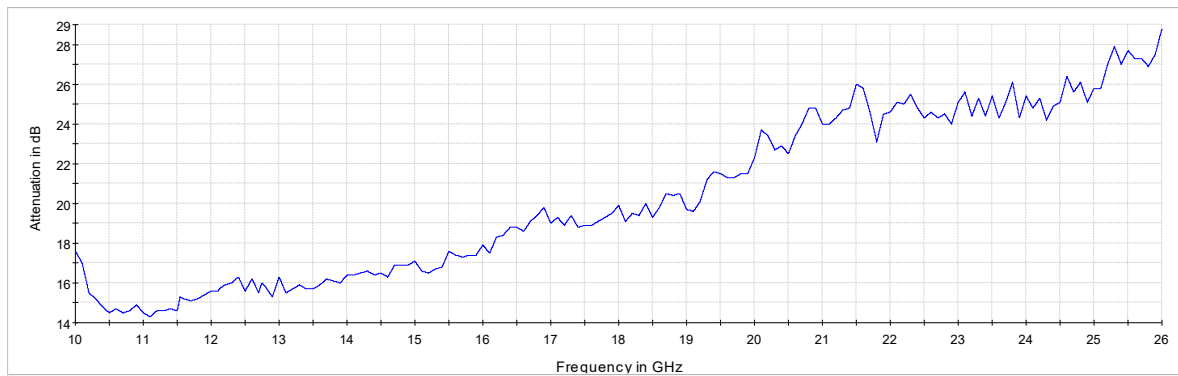
Measurement 1 – 13.5 GHz: Path Attenuation Transducer DUT1_3dB



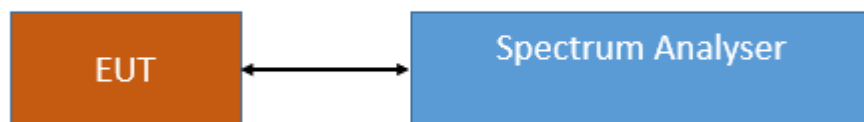
Transducer DUT1_3dB



Measurement 13.5 - 26 GHz: Path Attenuation Transducer DUT1_3dB_HP11G



Transducer DUT1_3dB_HP11G



Measurement 26 GHz - 40 GHz

Offset for Cable (5.5 dB) + Ant. Gain (2.4 dBi) = 7.9 dB (5 GHz)
 (3.4 dBi) = 8.9 dB (6GHz)

Analyser settings:

- Frequency range: 0.009 – 30 MHz
- Resolution Bandwidth (RBW): 10 kHz
- Video Bandwidth (VBW): 30 kHz
- Trace: Maxhold
- Sweeps: see plots
- Sweep Time: coupled
- Detector: Peak

- Frequency range: 30 – 1000 MHz
- Resolution Bandwidth (RBW): 100 kHz
- Video Bandwidth (VBW): 300 kHz
- Trace: Maxhold
- Sweeps: see plots
- Sweep Time: coupled
- Detector: Peak

- Frequency range: 1000 – 26000 MHz
- Resolution Bandwidth (RBW): 1000 kHz
- Video Bandwidth (VBW): 3000 kHz
- Trace: Maxhold, Average Power
- Sweeps: see plots
- Sweep Time: coupled
- Detector: Peak, RMS

- Frequency range: 26000 – 40000 MHz
- Resolution Bandwidth (RBW): 1000 kHz
- Video Bandwidth (VBW): 3000 kHz
- Trace: Maxhold, Average Power
- Sweeps: 1000
- Sweep Time: coupled
- Detector: Peak, RMS

For the conducted emissions in restricted bands the Value is measured in dBm and then converted to dB μ V/m as given in KDB 789033:

1. Measure the conducted output power in dBm.
2. Add the maximum antenna gain in dBi. (Included in measurement result by offset)
3. Add the appropriate ground reflection factor (included in measurement result by transducer factor)
 - 6 dB for frequencies ≤ 30 MHz;
 - 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive; and
 - 0 dB for frequencies > 1000 MHz).
4. Convert the resultant EIRP level to an equivalent electric field strength level using the following relationship:
 - $E = \text{EIRP} - 20 \log D + 104.8$
 - Where E is the electric field strength in dB μ V/m,
 - EIRP is the equivalent isotropically radiated power in dBm
 - D is the specified measurement distance in m

Value [dB μ V/m] = Measured value [dBm] (including gain and ground reflection factor) – 20 log D + 104.8

5.6.2 TEST REQUIREMENTS / LIMITS

A) FCC

FCC Part 15 Subpart E, §15.407 (b)(1)

For transmitters operating in the 5150–5250 MHz band:

Limit: –27 dBm/MHz EIRP outside of the band 5150–5350 MHz.

FCC Part 15 Subpart E, §15.407 (b)(2)

For transmitters operating in the 5250–5350 MHz band:

Limit: –27 dBm/MHz EIRP outside of the band 5150–5350 MHz.

FCC Part 15 Subpart E, §15.407 (b)(3)

For transmitters operating in the 5470–5725 MHz band:

Limit: –27 dBm/MHz EIRP outside of the band 5470–5725 MHz.

FCC Part 15 Subpart E, §15.407 (b)(4)

For transmitters operating in the 5725–5850 MHz band:

Limit: –27 dBm/MHz at 75 MHz or more above or below the band edge
increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge
increasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edge
increasing linearly to 27 dBm/MHz at the band edge.

B) IC

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

RSS-247, 6.2.1.2, Emissions outside the band 5150–5250 MHz, indoor operation only:

Limit: –27 dBm/MHz EIRP outside of the band 5150–5250 MHz.

RSS-247, 6.2.2.2, Emissions outside the band 5250–5350 MHz:

Limit: –27 dBm/MHz EIRP outside of the band 5250–5350 MHz.

RSS-247, 6.2.3.2, Emissions outside the bands 5470–5600 MHz and 5650–5725 MHz:

Limit: –27 dBm/MHz EIRP outside of the band 5470–5725 MHz.

However, devices with bandwidth overlapping the band edge of 5725 MHz can meet the emission limit of –27 dBm/MHz e.i.r.p. at 5850 MHz instead of 5725 MHz.

Note: No operation is permitted for the frequency range 5600–5650 MHz.

RSS-247, 6.2.4.2, Emissions outside the band 5725–5850 MHz:

- a. 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- b. 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- c. 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to –27 dBm/MHz at 75 MHz above or below the band edges; and
- d. –27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

C) FCC & IC

FCC Part 15 Subpart E, §15.405

The provisions of §§ 15.203 and 15.205 are included.

§15.407 (b)(6)

Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.

§15.407 (b)(7)

The provisions of §15.205 apply to intentional radiators operating under this section

FCC Part 15, Subpart C, §15.209, Radiated Emission Limits

Frequency in MHz	Limit (µV/m)	Measurement distance (m)	Limits (dBµV/m)
0.009 – 0.49	2400/F(kHz)@300m	3	(48.5 – 13.8)@300m
0.49 – 1.705	24000/F(kHz)@30m	3	(33.8 – 23.0)@30m
1.705 – 30	30@30m	3	29.5@30m

The measured values are corrected with an inverse linear distance extrapolation factor (40 dB/decade) according FCC 15.31 (2).

Frequency in MHz	Limit (µV/m)	Measurement distance (m)	Limits (dBµV/m)
30 – 88	100@3m	3	40.0@3m
88 – 216	150@3m	3	43.5@3m
216 – 960	200@3m	3	46.0@3m
960 – 26000	500@3m	3	54.0@3m
26000 – 40000	500@3m	1	54.0@3m

The measured values above 26 GHz are corrected with an inverse linear distance extrapolation factor (20 dB/decade).

§15.35(b) ..., there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit....

Used conversion factor:

- Limit (dBµV/m) = 20 log (Limit (µV/m)/1µV/m)
- Limit (dBµV/m) = EIRP [dBm] – 20 log (d [m]) + 104.8

Limit types (in result tables):

RB – Emissions falls into a "Restricted Band" according FCC §§15.205 and 15.209 *)

UE – "Undesirable Emission Limit" according FCC §15.407

BE-RB – Band Edge Limit basing on "Restricted Band Limits"

BE-UE – Band Edge Limit basing on "Undesirable Emission Limit"

*) Below 1 GHz the limits of §15.209 are applied for all frequencies.

5.6.3 TEST PROTOCOL

Ambient temperature: 21 - 24 °C
 Air Pressure: 45 - 56 hPa
 Humidity: 1005 - 1016 %
 WLAN a-Mode; 20 MHz; 6 Mbit/s
 Applied duty cycle correction (AV): 0.1 dB

Measurement Method	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type
Conducted	5180	3884.8	53.1	PEAK	1000	74.0	20.9	RB
Conducted	5180	3884.8	47.4	AV	1000	54.0	6.7	RB
Radiated	5180	-	-	-	-	-	-	-
Radiated	5200	-	-	-	-	-	-	-
Conducted	5200	3900.0	53.1	PEAK	1000	74.0	20.9	RB
Conducted	5200	3900.0	47.3	AV	1000	54.0	6.7	RB
Conducted	5240	3930.1	52.4	PEAK	1000	74.0	21.6	RB
Conducted	5240	3930.1	47.1	AV	1000	54.0	6.9	RB
Conducted	5260	3944.9	52.6	PEAK	1000	74.0	21.4	RB
Conducted	5260	3944.9	47.0	AV	1000	54.0	7.0	RB
Radiated	5300	-	-	-	-	-	-	-
Conducted	5300	3975.0	52.2	PEAK	1000	74.0	21.8	RB
Conducted	5300	3975.0	47.0	AV	1000	54.0	7.0	RB
Radiated	5320	-	-	-	-	-	-	-
Conducted	5320	3989.8	52.4	PEAK	1000	74.0	21.6	RB
Conducted	5320	3989.8	47.0	AV	1000	54.0	7.0	RB
Conducted	5500	3666.8	52.0	PEAK	1000	74.0	22.0	RB
Conducted	5500	3666.8	45.4	AV	1000	54.0	8.6	RB
Radiated	5580	-	-	-	-	-	-	-
Conducted	5700	3800.0	52.0	PEAK	1000	74.0	22.0	RB
Conducted	5700	3800.0	47.2	AV	1000	54.0	6.8	RB
Radiated	5700	-	-	-	-	-	-	-
Conducted	5745	3830.1	52.4	PEAK	1000	74.0	21.6	RB
Conducted	5745	3830.1	47.1	AV	1000	54.0	6.9	RB
Radiated	5785	-	-	-	-	-	-	-
Conducted	5785	3856.6	52.1	PEAK	1000	74.0	21.9	RB
Conducted	5785	3856.6	47.0	AV	1000	54.0	7.0	RB
Conducted	5825	3883.2	52.4	PEAK	1000	74.0	21.6	RB
Conducted	5825	3883.2	46.9	AV	1000	54.0	7.1	RB
Radiated	5825	-	-	-	-	-	-	-

WLAN n-Mode; 20 MHz; MCS 0; SISO

Applied duty cycle correction (AV): 0.1 dB

Measurement Method	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type
Conducted	5180	3884.8	52.5	PEAK	1000	74.0	21.5	RB
Conducted	5180	3884.8	47.3	AV	1000	54.0	6.7	RB
Conducted	5200	3900.0	53.1	PEAK	1000	74.0	20.9	RB
Conducted	5200	3900.0	47.5	AV	1000	54.0	6.5	RB
Conducted	5240	3930.1	52.1	PEAK	1000	74.0	21.9	RB
Conducted	5240	3930.1	47.2	AV	1000	54.0	6.8	RB
Conducted	5260	3944.9	52.3	PEAK	1000	74.0	21.7	RB
Conducted	5260	3944.9	47.3	AV	1000	54.0	6.7	RB
Conducted	5300	3975.0	52.6	PEAK	1000	74.0	21.4	RB
Conducted	5300	3975.0	46.9	AV	1000	54.0	7.1	RB
Conducted	5320	3989.8	51.9	PEAK	1000	74.0	22.1	RB
Conducted	5320	3989.8	46.7	AV	1000	54.0	7.3	RB
Conducted	5500	3666.8	51.7	PEAK	1000	74.0	22.3	RB
Conducted	5500	3666.8	45.7	AV	1000	54.0	8.3	RB
Conducted	5580	3719.9	53.1	PEAK	1000	74.0	20.9	RB
Conducted	5580	3719.9	47.1	AV	1000	54.0	6.9	RB
Conducted	5700	3800.0	54.5	PEAK	1000	74.0	19.6	RB
Conducted	5700	3800.0	47.4	AV	1000	54.0	6.6	RB
Conducted	5745	3830.1	52.3	PEAK	1000	74.0	21.7	RB
Conducted	5745	3830.1	47.2	AV	1000	54.0	6.8	RB
Conducted	5785	3856.6	53.1	PEAK	1000	74.0	20.9	RB
Conducted	5785	3856.6	47.0	AV	1000	54.0	7.0	RB
Conducted	5825	3883.2	52.2	PEAK	1000	74.0	21.8	RB
Conducted	5825	3883.2	46.8	AV	1000	54.0	7.2	RB

WLAN ac-Mode; 20 MHz; MCS 0; SISO

Applied duty cycle correction (AV): 0.1 dB

Measurement Method	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type
Conducted	5180	3884.8	52.6	PEAK	1000	74.0	21.4	RB
Conducted	5180	3884.8	47.4	AV	1000	54.0	6.6	RB
Conducted	5200	3900.0	54.2	PEAK	1000	74.0	19.8	RB
Conducted	5200	3900.0	47.5	AV	1000	54.0	6.5	RB
Conducted	5240	3930.1	53.2	PEAK	1000	74.0	20.8	RB
Conducted	5240	3930.1	47.1	AV	1000	54.0	7.0	RB
Conducted	5260	3944.9	52.0	PEAK	1000	74.0	22.0	RB
Conducted	5260	3944.9	47.1	AV	1000	54.0	6.9	RB
Conducted	5300	3975.0	52.4	PEAK	1000	74.0	21.6	RB
Conducted	5300	3975.0	46.9	AV	1000	54.0	7.1	RB
Conducted	5320	3989.8	52.3	PEAK	1000	74.0	21.8	RB
Conducted	5320	3989.8	46.4	AV	1000	54.0	7.6	RB
Conducted	5500	3666.8	51.8	PEAK	1000	74.0	22.2	RB
Conducted	5500	3666.8	44.9	AV	1000	54.0	9.1	RB
Conducted	5580	3719.9	52.2	PEAK	1000	74.0	21.8	RB
Conducted	5580	3719.9	46.5	AV	1000	54.0	7.5	RB
Conducted	5700	3800.0	52.0	PEAK	1000	74.0	22.0	RB
Conducted	5700	3800.0	46.5	AV	1000	54.0	7.5	RB
Conducted	5745	3830.1	51.8	PEAK	1000	74.0	22.2	RB
Conducted	5745	3830.1	46.5	AV	1000	54.0	7.5	RB
Conducted	5785	3856.6	52.3	PEAK	1000	74.0	21.7	RB
Conducted	5785	3856.6	46.3	AV	1000	54.0	7.7	RB
Conducted	5825	3883.2	52.3	PEAK	1000	74.0	21.8	RB
Conducted	5825	3883.2	46.2	AV	1000	54.0	7.8	RB

WLAN ax-Mode; 20 MHz; MCS 0; SISO

Applied duty cycle correction (AV): 0.1 dB

Measurement Method	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type
Conducted	5180	3884.8	51.8	PEAK	1000	74.0	22.2	RB
Conducted	5180	3884.8	46.5	AV	1000	54.0	7.6	RB
Conducted	5200	3900.0	51.7	PEAK	1000	74.0	22.3	RB
Conducted	5200	3900.0	46.8	AV	1000	54.0	7.2	RB
Conducted	5240	3930.1	52.3	PEAK	1000	74.0	21.7	RB
Conducted	5240	3930.1	46.3	AV	1000	54.0	7.7	RB
Conducted	5260	3944.9	52.1	PEAK	1000	74.0	21.9	RB
Conducted	5260	3944.9	46.5	AV	1000	54.0	7.5	RB
Conducted	5300	3975.0	51.6	PEAK	1000	74.0	22.4	RB
Conducted	5300	3975.0	46.1	AV	1000	54.0	7.9	RB
Conducted	5320	3989.8	51.6	PEAK	1000	74.0	22.4	RB
Conducted	5320	3989.8	46.5	AV	1000	54.0	7.6	RB
Conducted	5500	3666.8	51.9	PEAK	1000	74.0	22.1	RB
Conducted	5500	3666.8	45.3	AV	1000	54.0	8.7	RB
Conducted	5580	3719.9	51.7	PEAK	1000	74.0	22.3	RB
Conducted	5580	3719.9	46.4	AV	1000	54.0	7.6	RB
Conducted	5700	3800.0	52.3	PEAK	1000	74.0	21.7	RB
Conducted	5700	3800.0	46.5	AV	1000	54.0	7.5	RB
Conducted	5745	3830.1	51.9	PEAK	1000	74.0	22.1	RB
Conducted	5745	3830.1	46.3	AV	1000	54.0	7.7	RB
Conducted	5785	3856.6	52.0	PEAK	1000	74.0	22.0	RB
Conducted	5785	3856.6	46.4	AV	1000	54.0	7.6	RB
Conducted	5825	3883.2	52.4	PEAK	1000	74.0	21.6	RB
Conducted	5825	3883.2	46.3	AV	1000	54.0	7.7	RB

Remark: Radiated Measurements were performed with 50 Oh termination at the antenna ports.

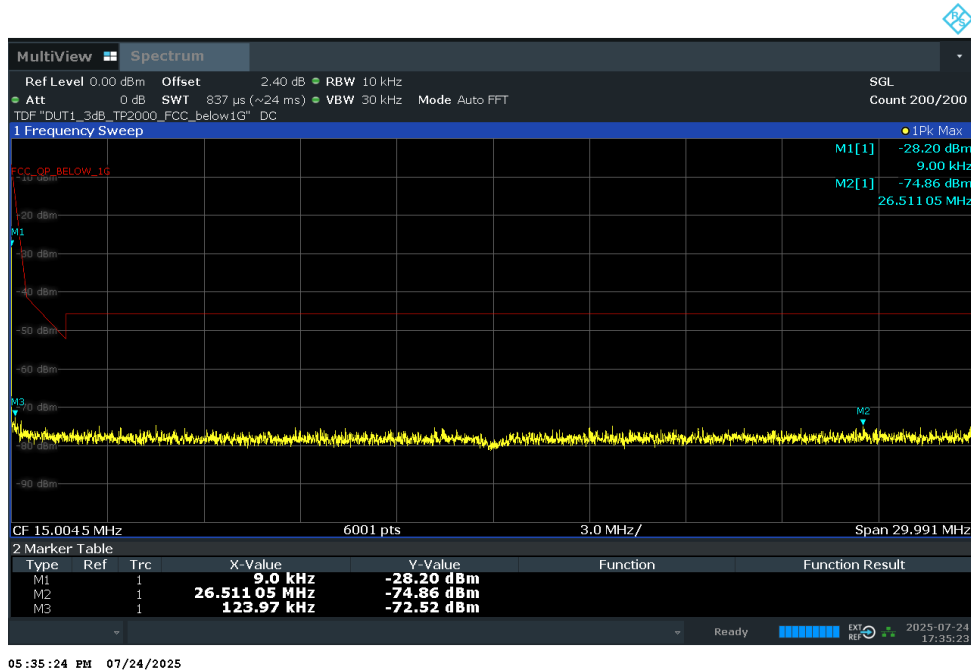
When no clear peaks were found in the plots, the tested frequencies are given with "–" instead of values in the table above.

For details, please see the plots in next sub-clause.

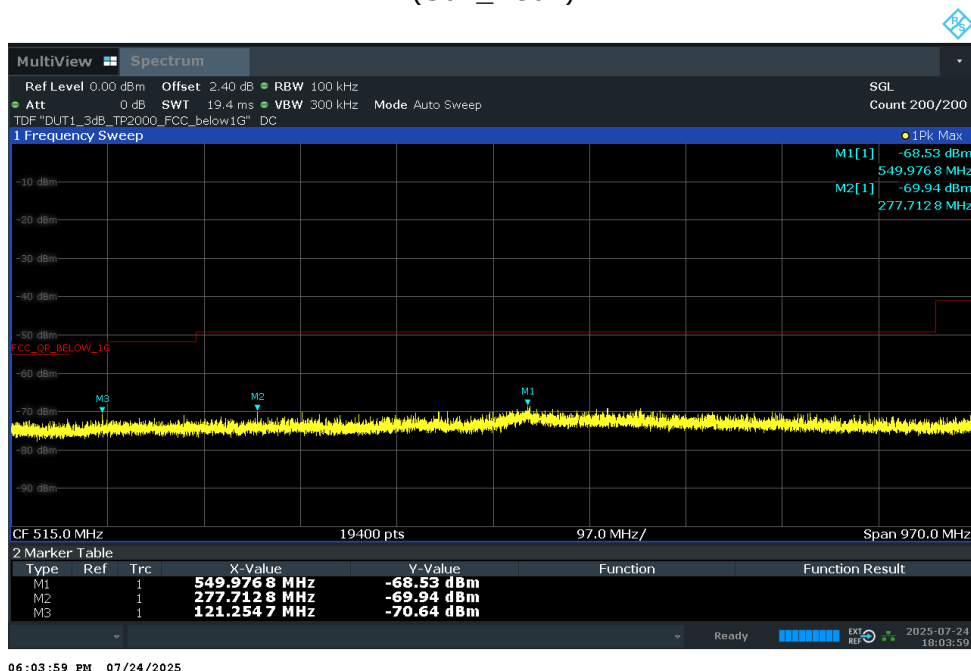
5.6.4 MEASUREMENT PLOT (EXAMPLE PLOT, SHOWING WORST CASE, IF APPLICABLE)

Conducted Measurements

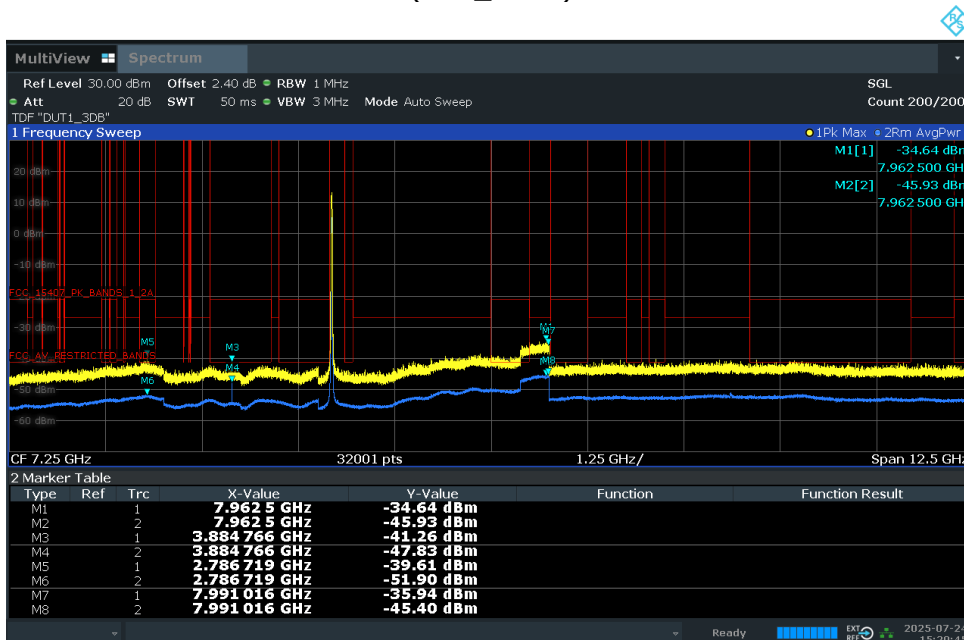
Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 9kHz - 30MHz, Subband = U-NII-1 (S01_BC01)



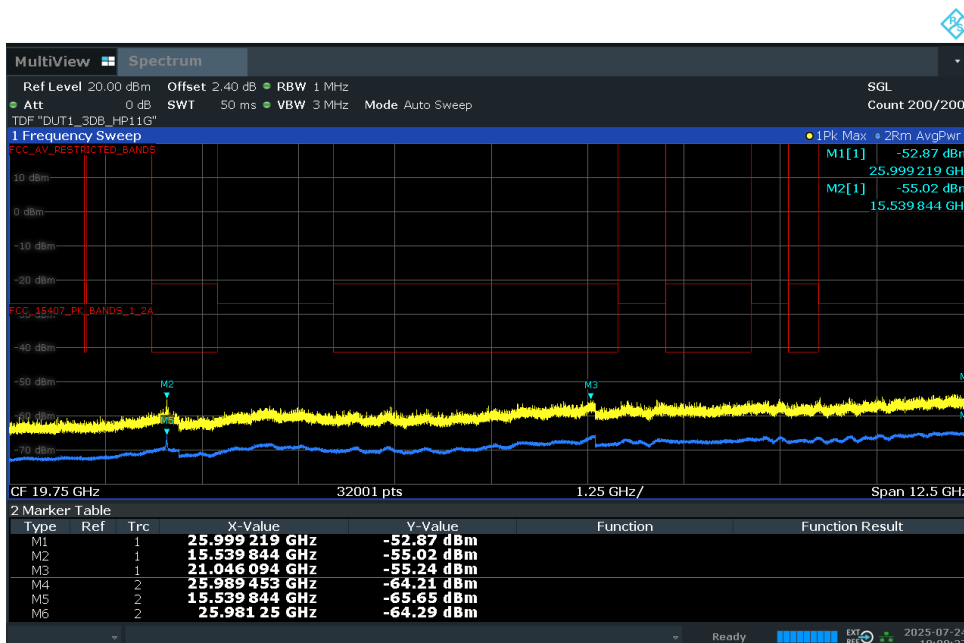
Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 30MHz - 1GHz, Subband = U-NII-1 (S01_BC01)



Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 1GHz - 26GHz, Subband = U-NII-1 (S01_BC01)

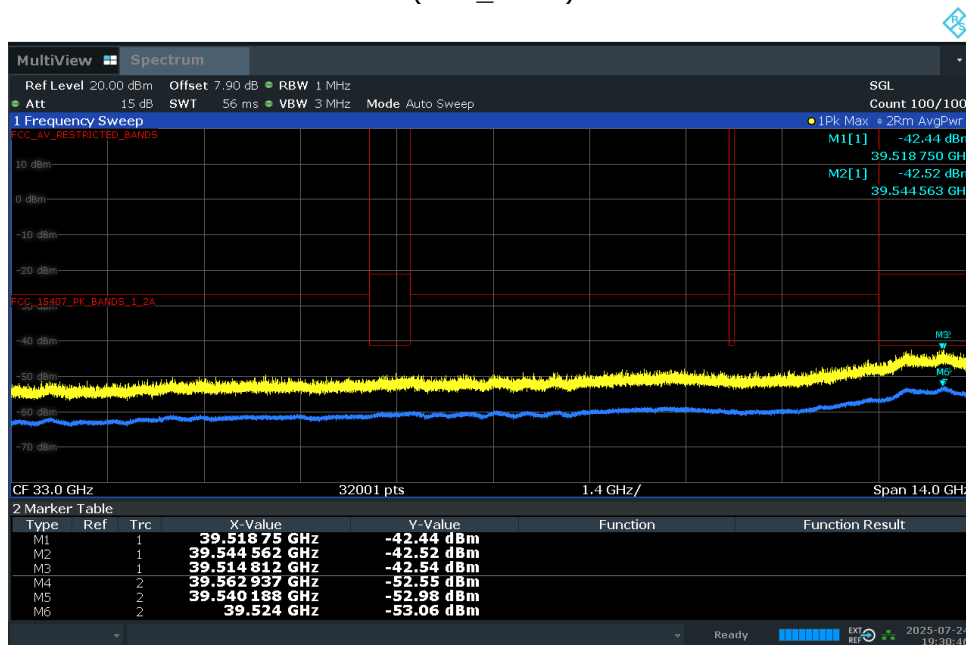


03:29:46 PM 07/24/2025



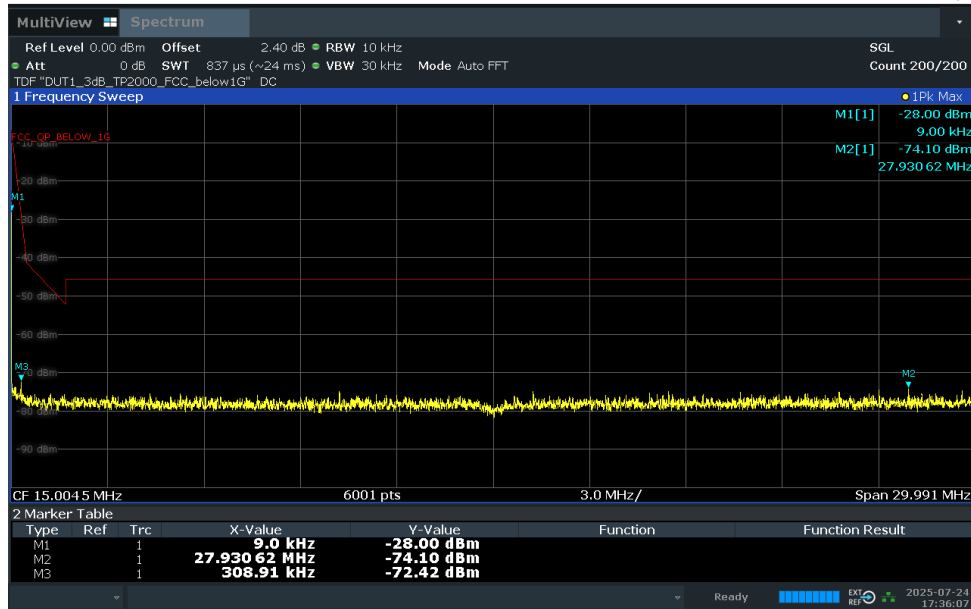
06:09:37 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 26GHz - 40GHz, Subband = U-NII-1 (S01_BC01)



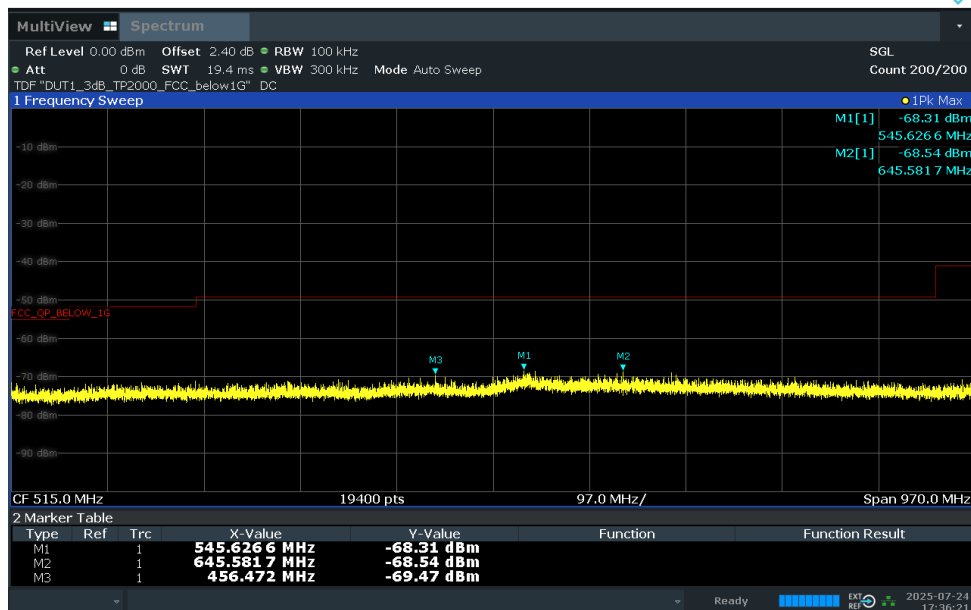
07:30:46 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 9kHz - 30MHz, Subband = U-NII-1 (S01_BC01)



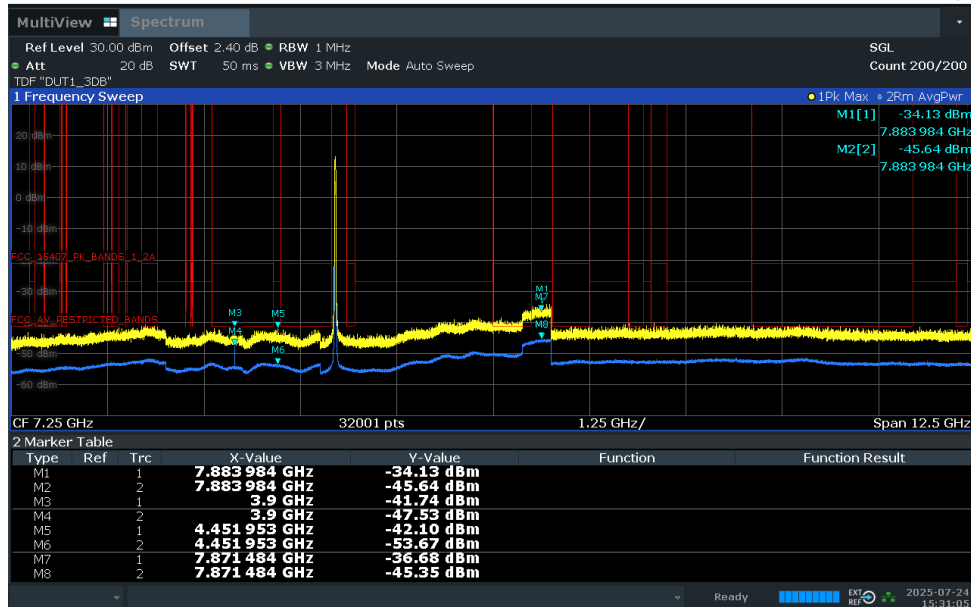
05:36:07 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 30MHz - 1GHz, Subband = U-NII-1 (S01_BC01)

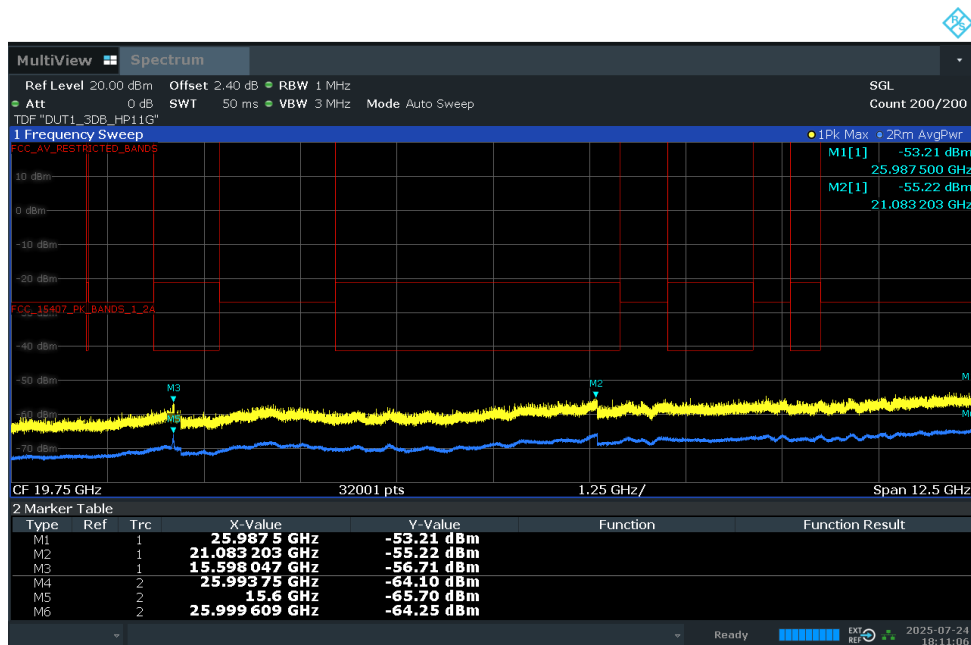


05:36:22 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 1GHz - 26GHz, Subband = U-NII-1 (S01_BC01)

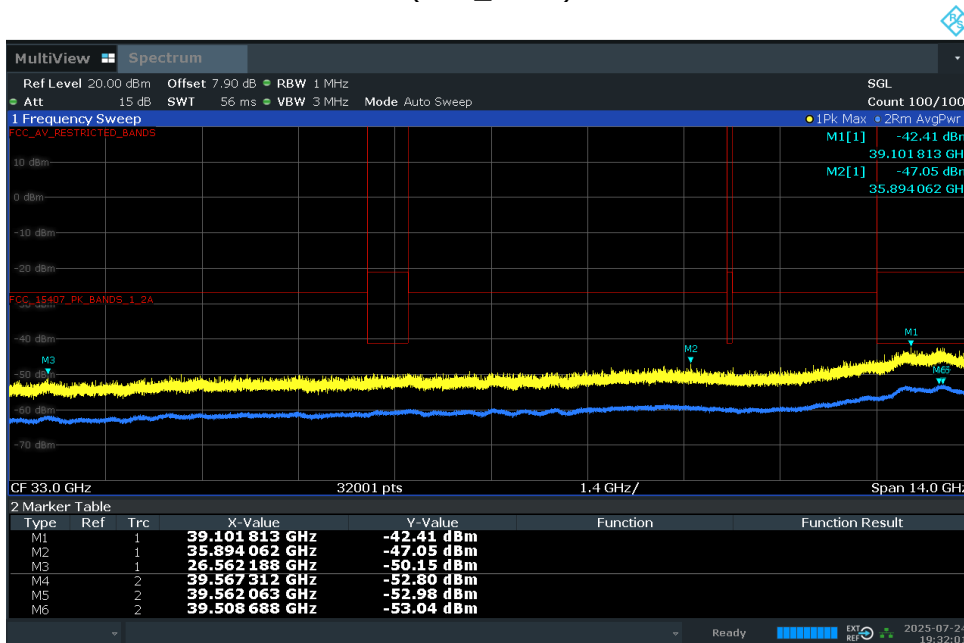


03:31:05 PM 07/24/2025



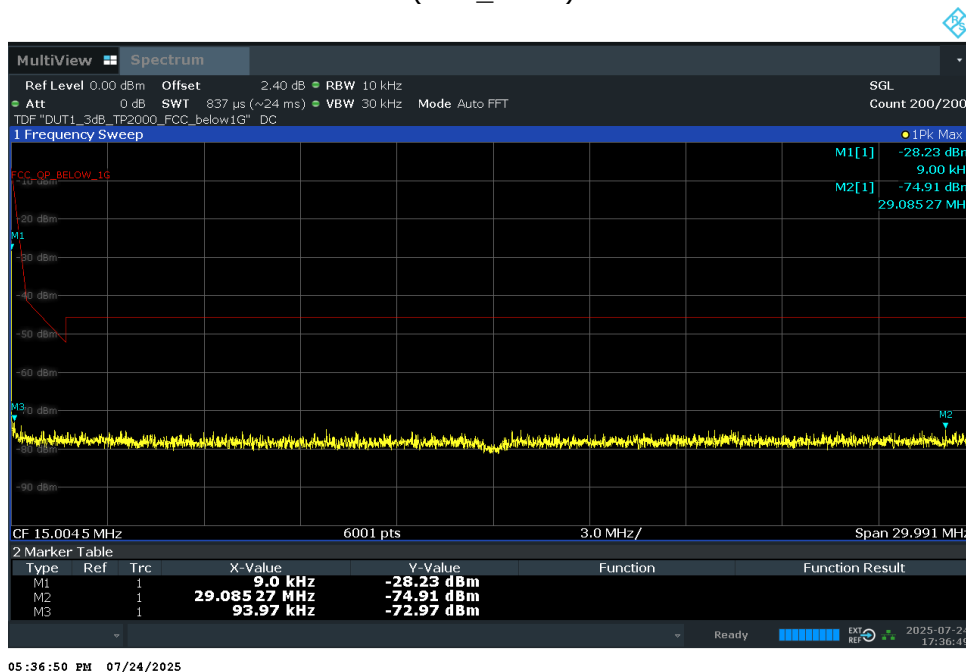
06:11:06 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 26GHz - 40GHz, Subband = U-NII-1 (S01_BC01)



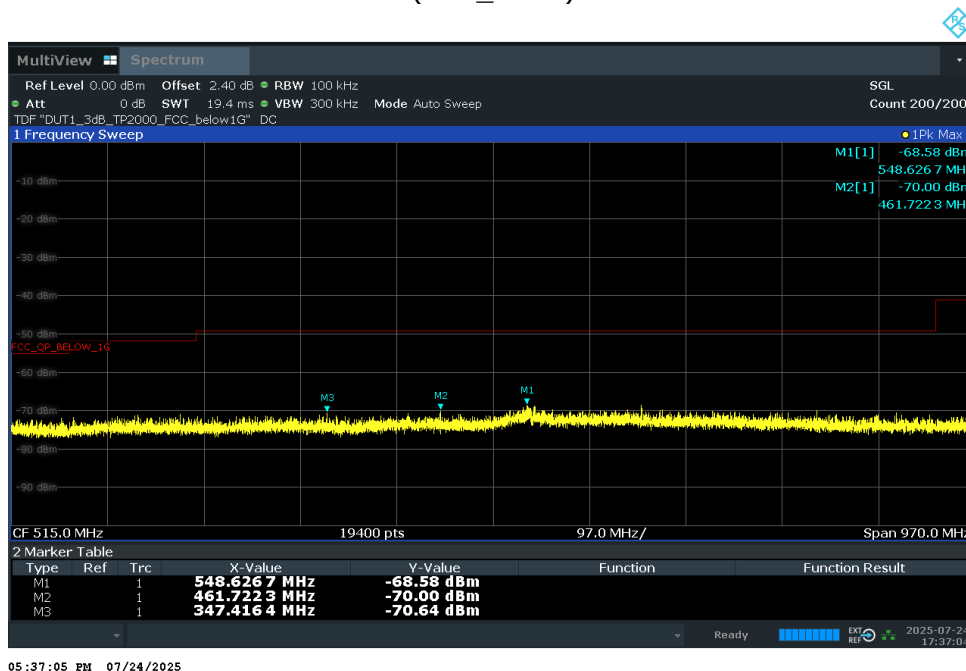
07:32:01 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 9kHz - 30MHz, Subband = U-NII-1 (S01_BC01)



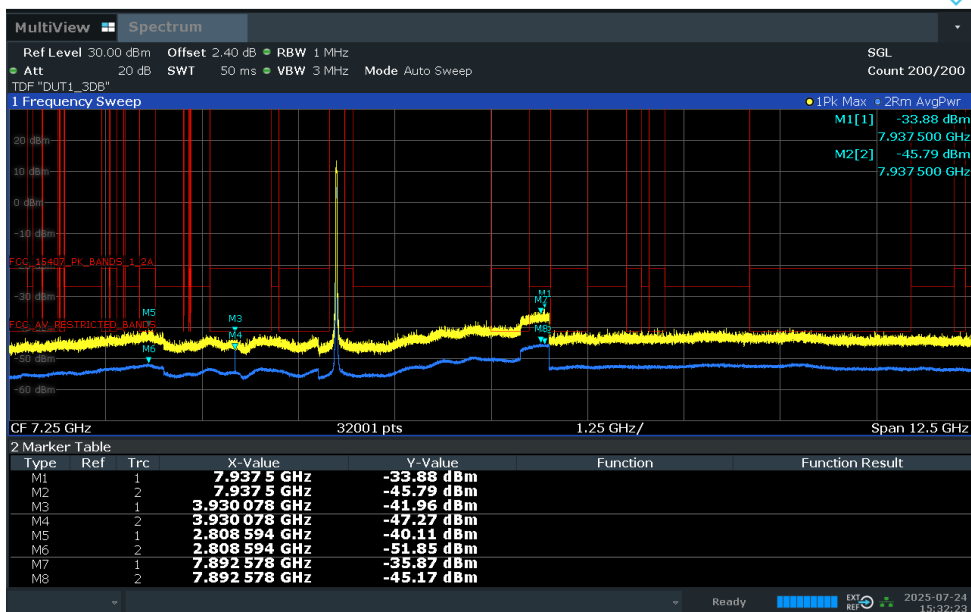
05:36:50 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 30MHz - 1GHz, Subband = U-NII-1 (S01_BC01)

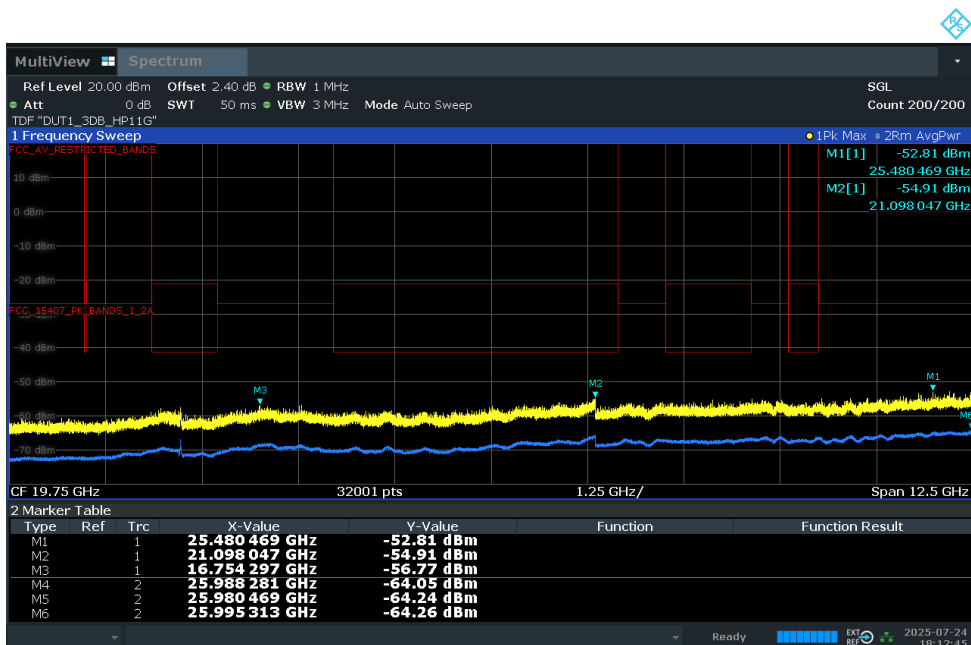


05:37:05 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 1GHz - 26GHz, Subband = U-NII-1 (S01_BC01)

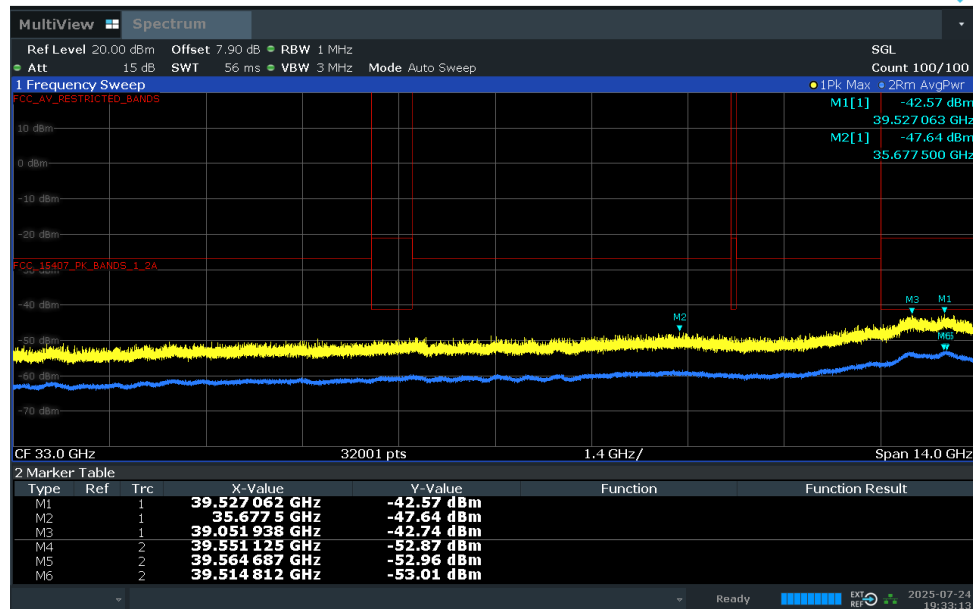


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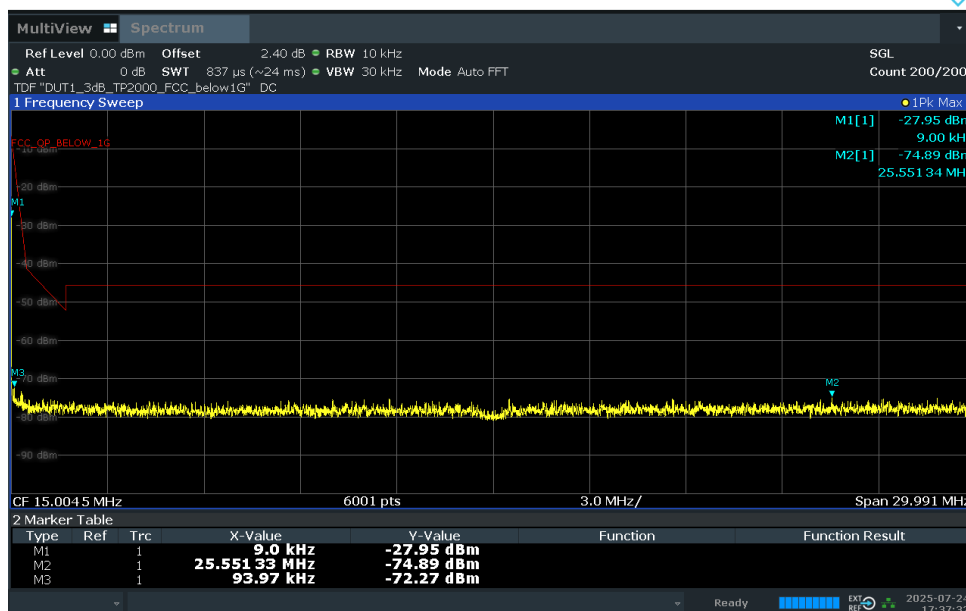
06:12:45 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 26GHz - 40GHz, Subband = U-NII-1 (S01_BC01)



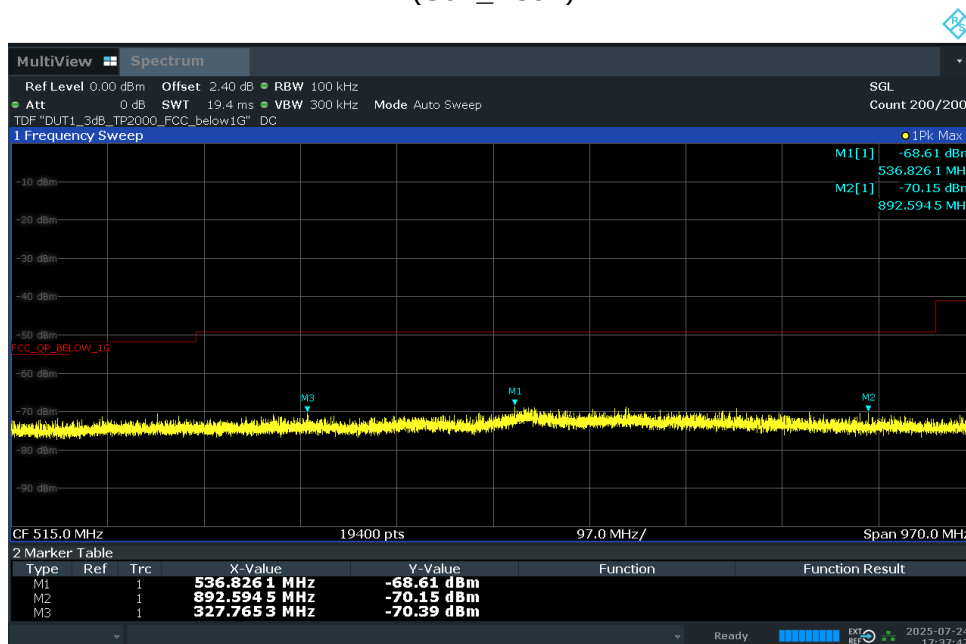
07:33:13 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 9kHz - 30MHz, Subband = U-NII-2A (S01_BC01)



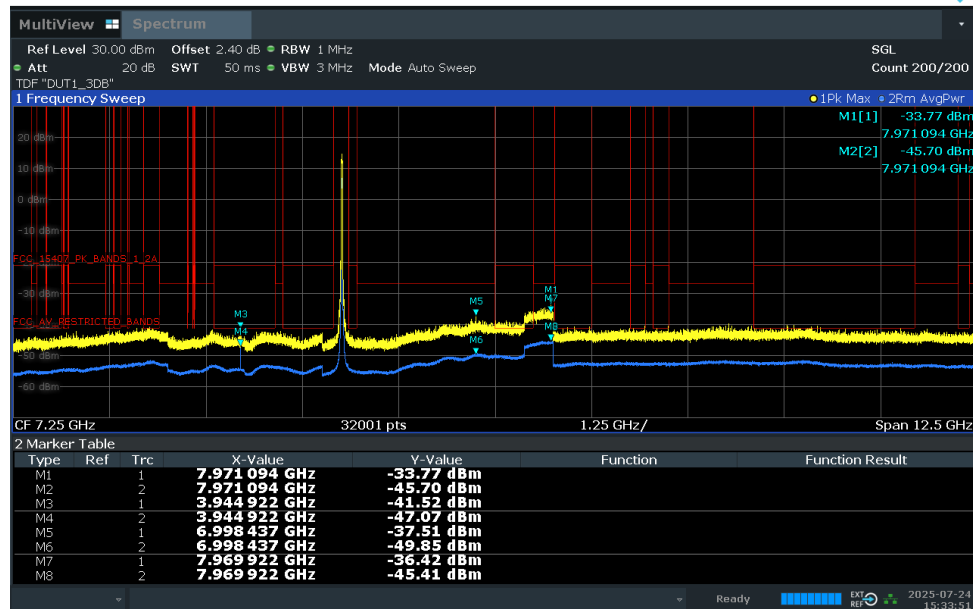
05:37:33 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 30MHz - 1GHz, Subband = U-NII-2A (S01_BC01)

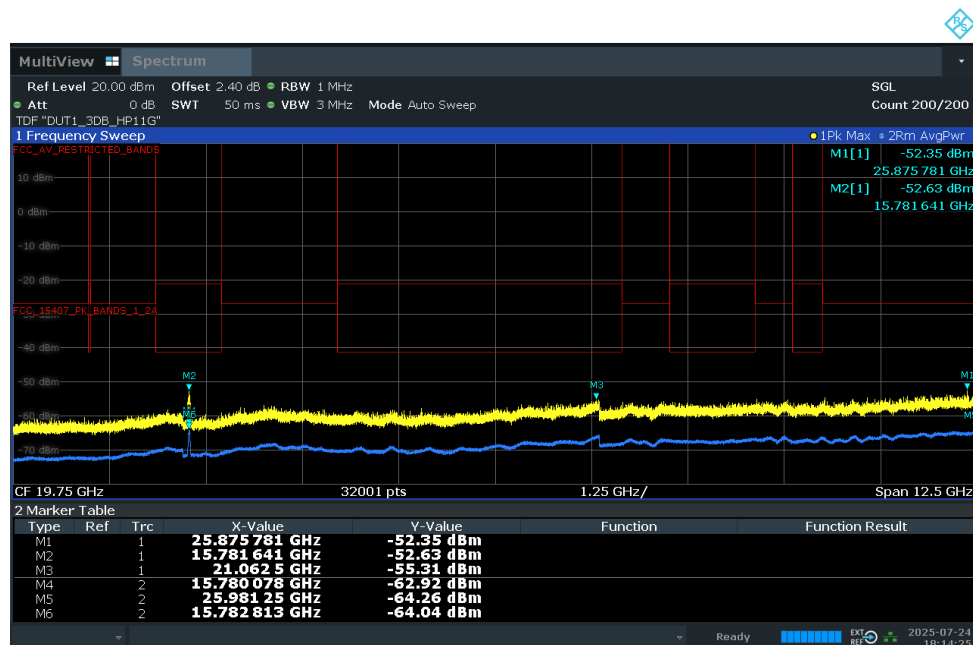


05:37:48 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 1GHz - 26GHz, Subband = U-NII-2A (S01_BC01)

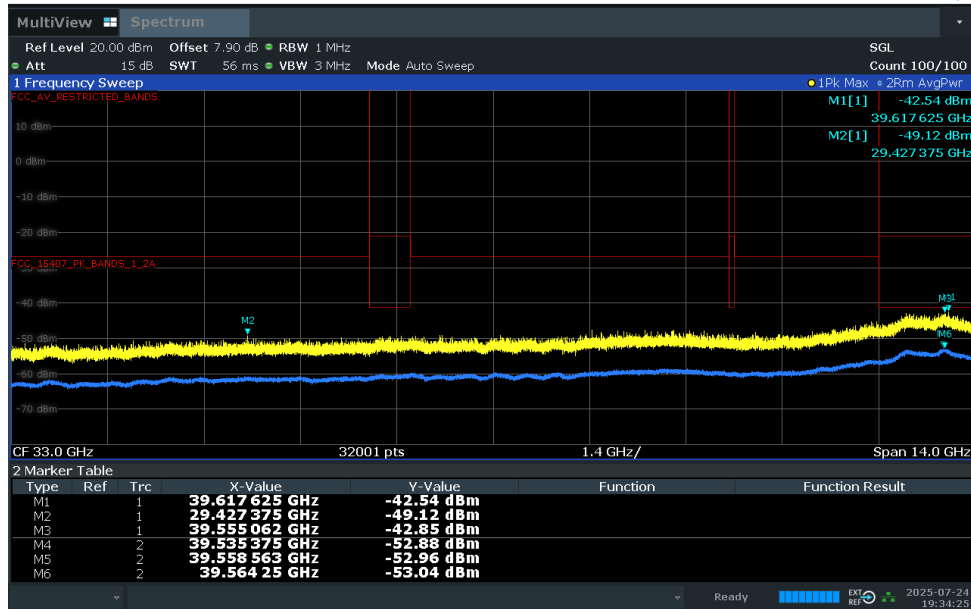


03:33:51 PM 07/24/2025



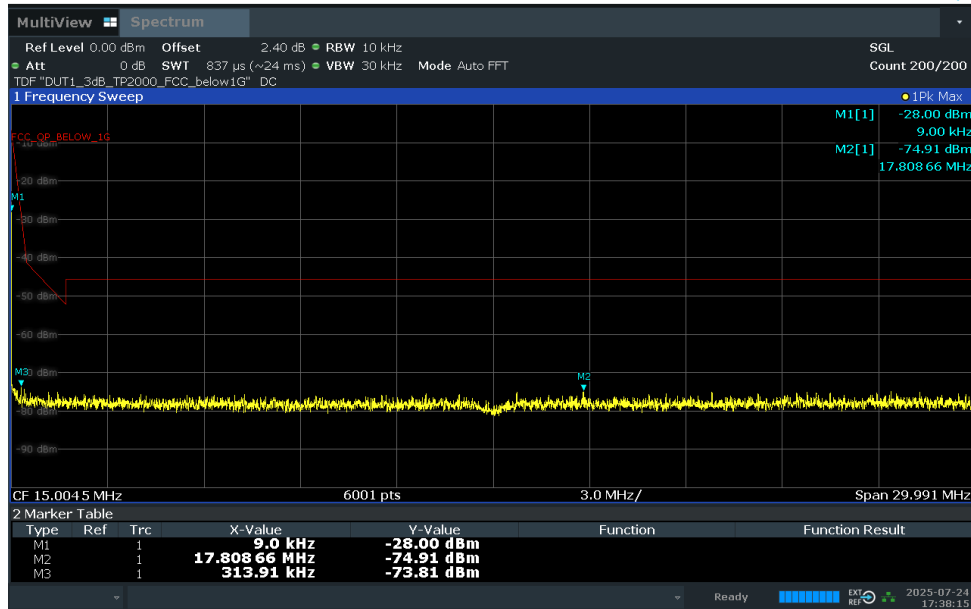
06:14:25 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 26GHz - 40GHz, Subband = U-NII-2A (S01_BC01)



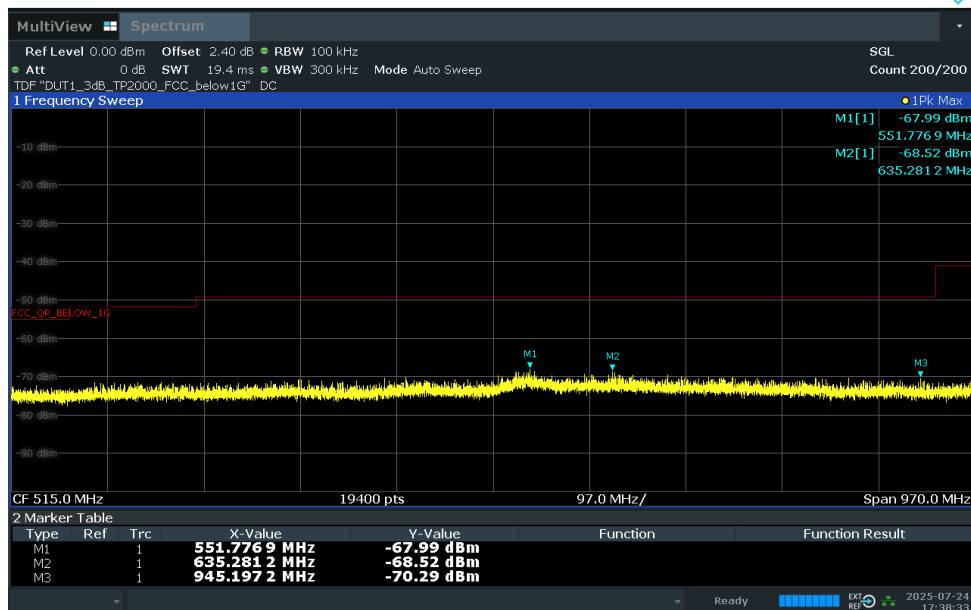
07:34:26 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 9kHz - 30MHz, Subband = U-NII-2A (S01_BC01)



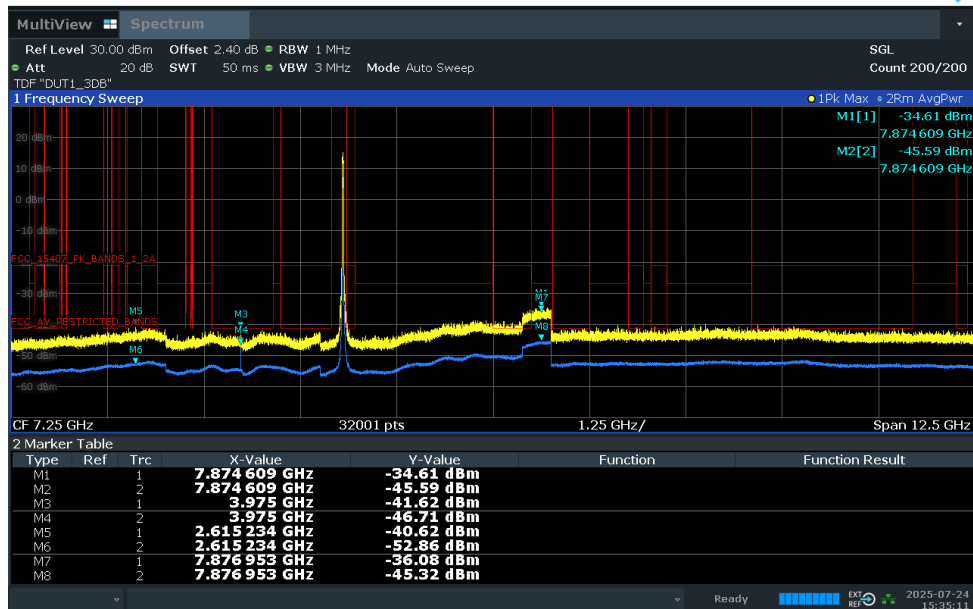
05:38:16 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 30MHz - 1GHz, Subband = U-NII-2A (S01_BC01)

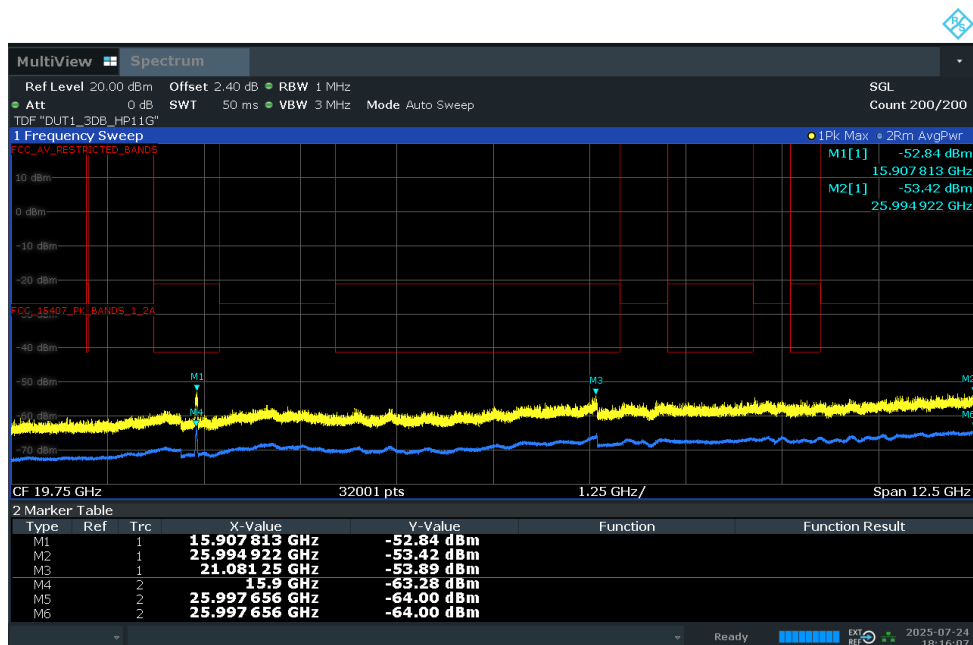


05:38:33 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 1GHz - 26GHz, Subband = U-NII-2A (S01_BC01)

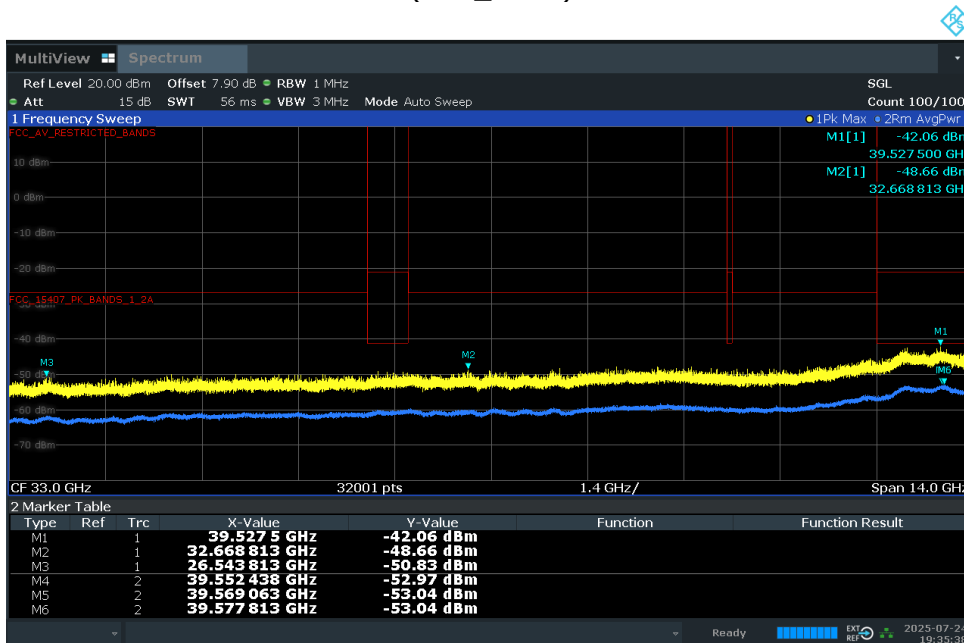


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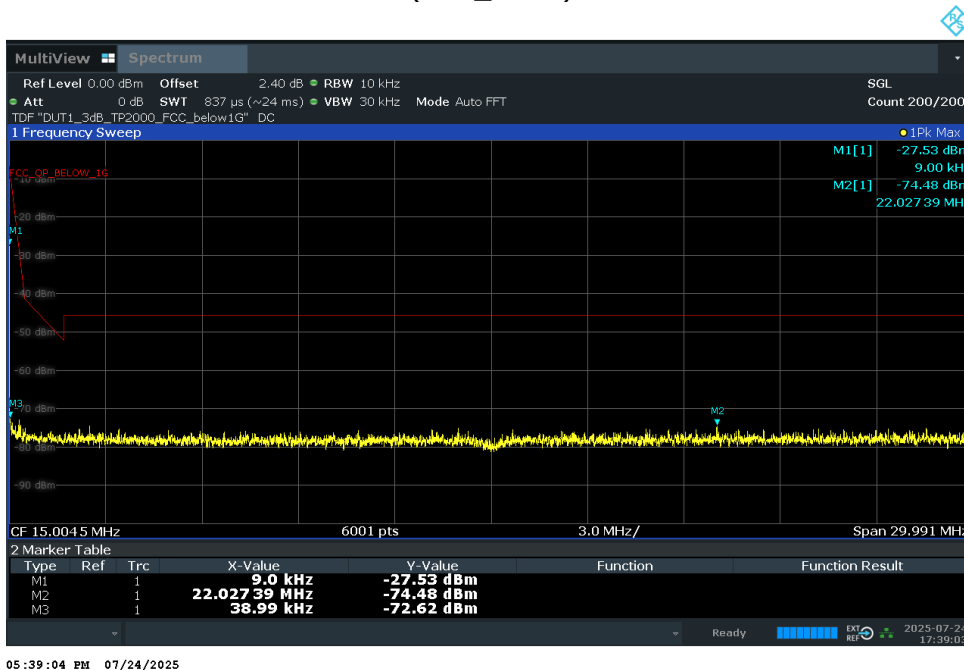
06:16:07 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 26GHz - 40GHz, Subband = U-NII-2A (S01_BC01)



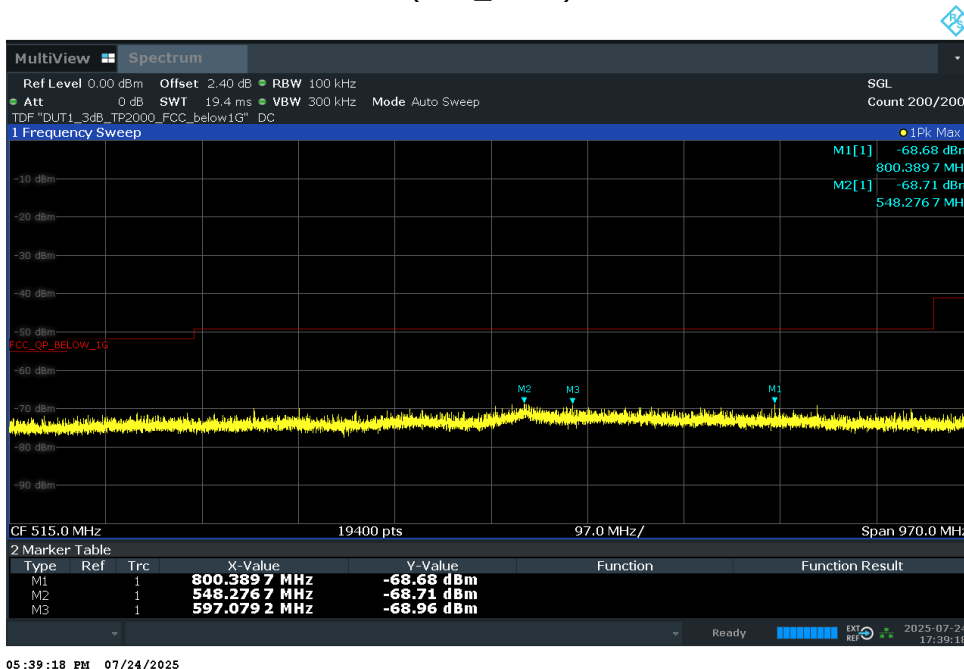
07:35:38 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 9kHz - 30MHz, Subband = U-NII-2A (S01_BC01)



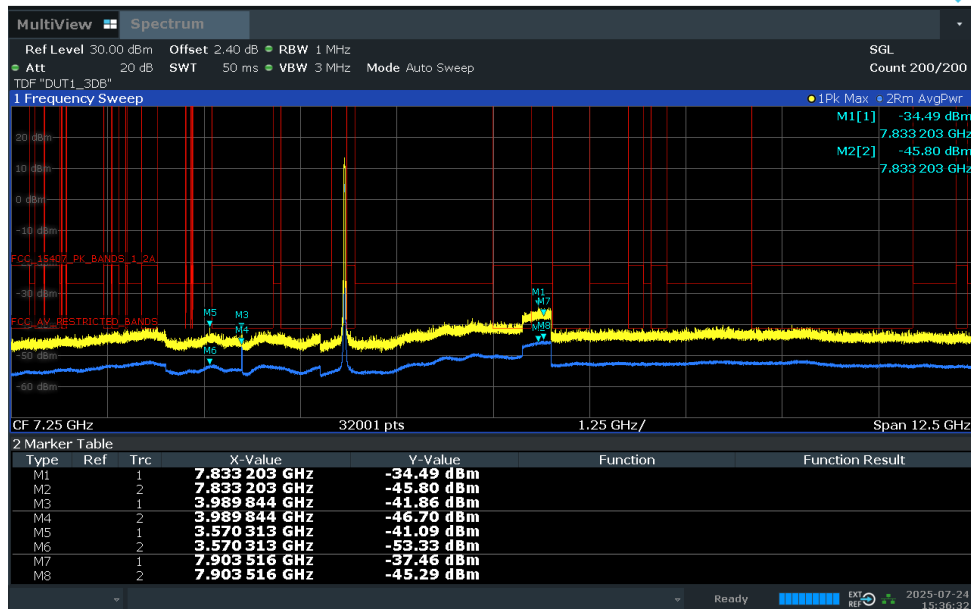
05:39:04 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 30MHz - 1GHz, Subband = U-NII-2A (S01_BC01)

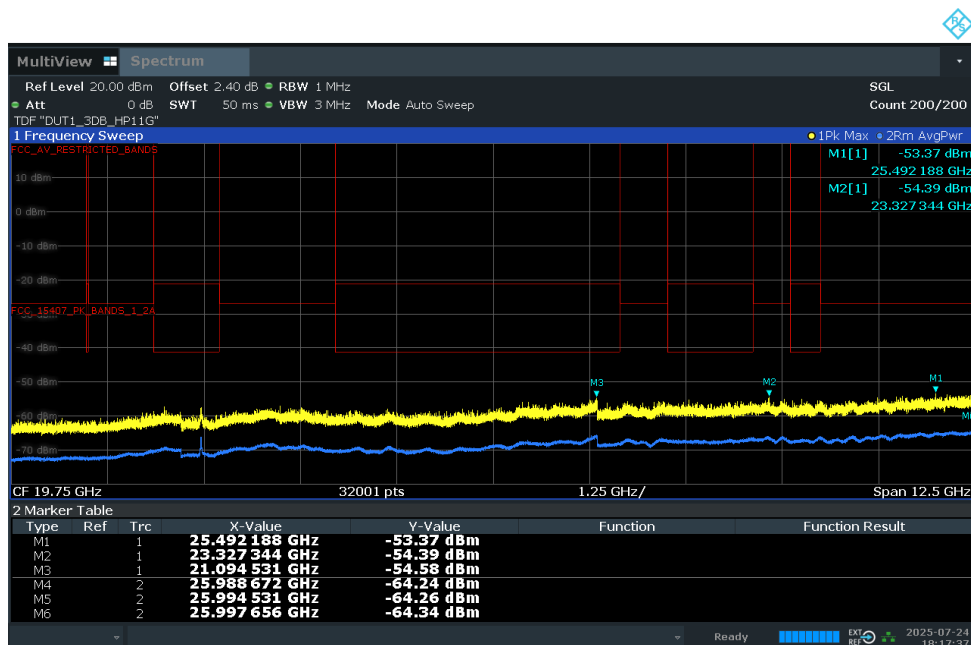


05:39:18 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 1GHz - 26GHz, Subband = U-NII-2A (S01_BC01)

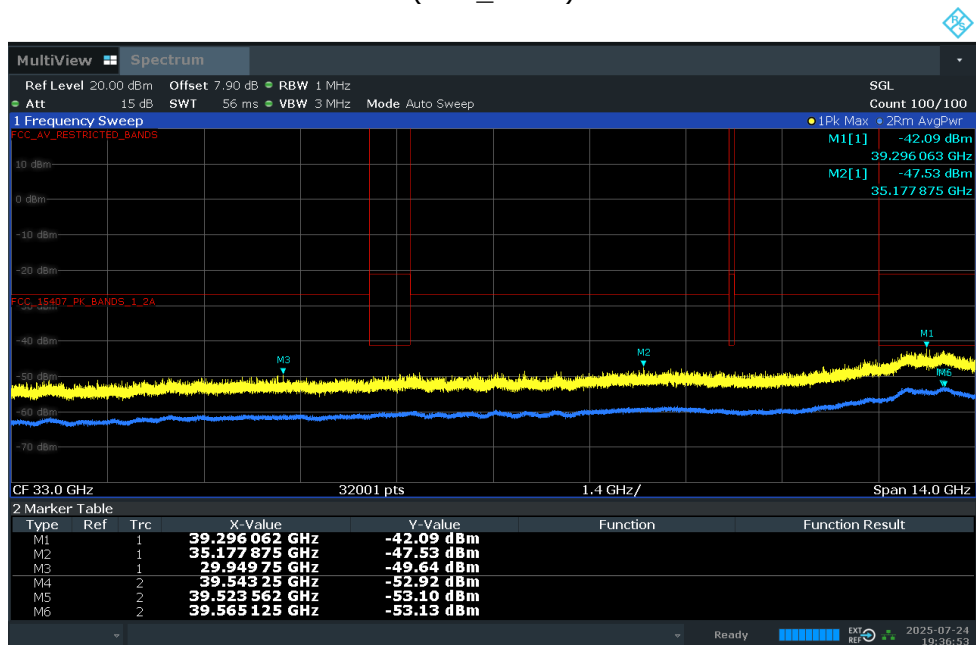


03:36:33 PM 07/24/2025



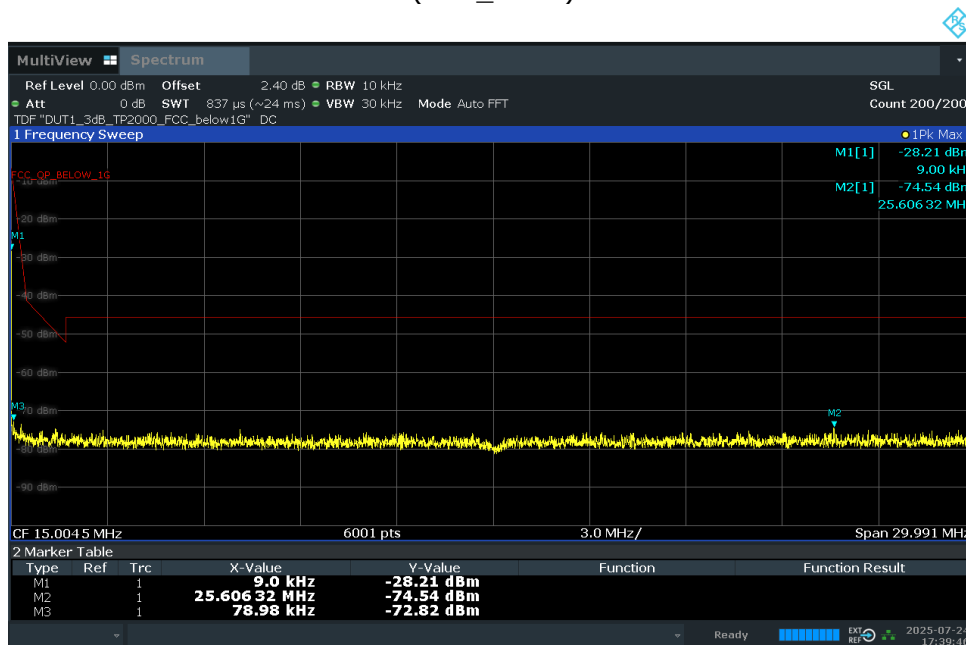
06:17:38 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 26GHz - 40GHz, Subband = U-NII-2A (S01_BC01)



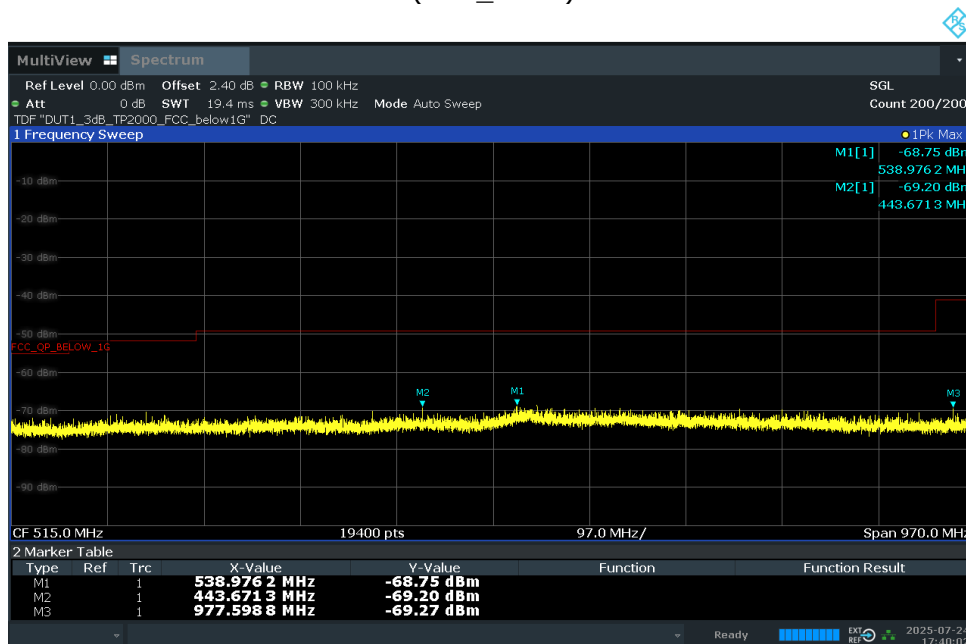
07:36:54 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 9kHz - 30MHz, Subband = U-NII-2C (S01_BC01)



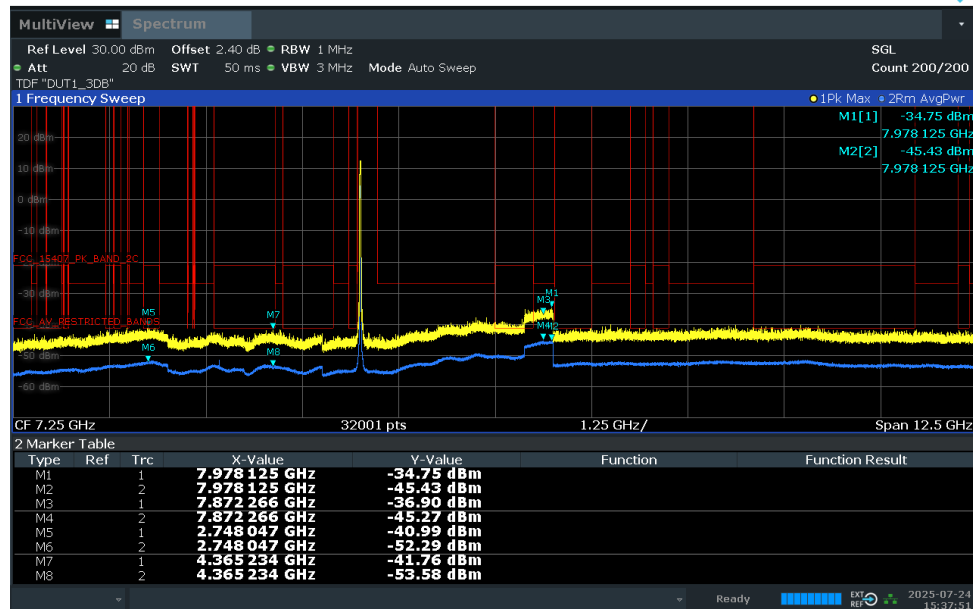
05:39:46 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 30MHz - 1GHz, Subband = U-NII-2C (S01_BC01)

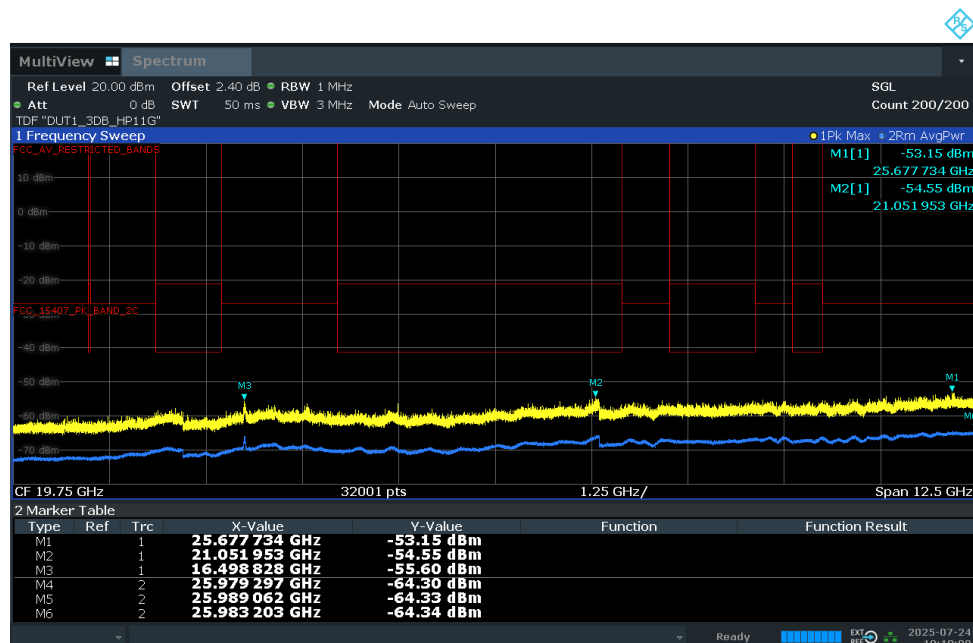


05:40:03 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 1GHz - 26GHz, Subband = U-NII-2C (S01_BC01)

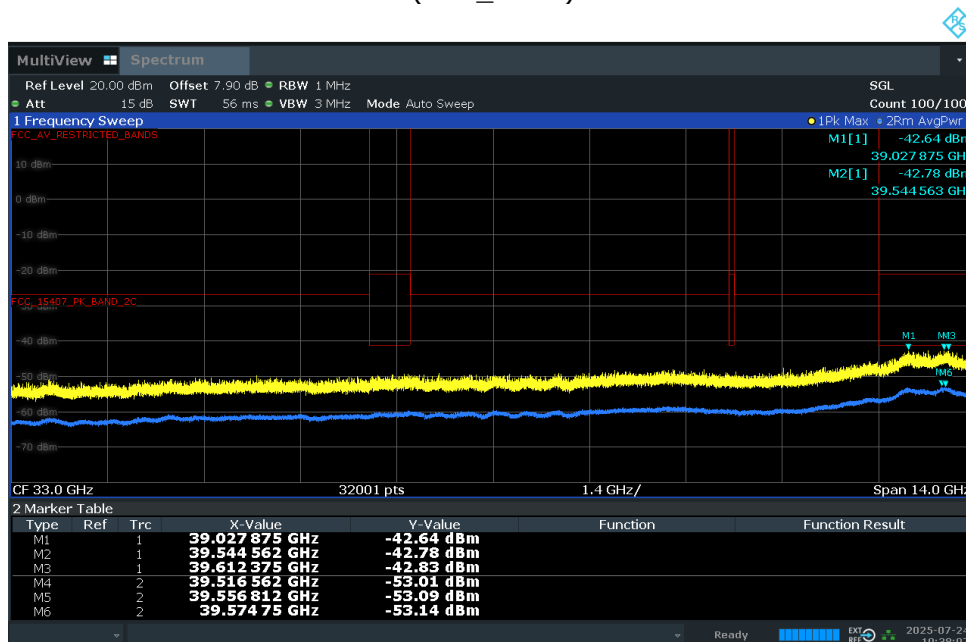


03:37:52 PM 07/24/2025



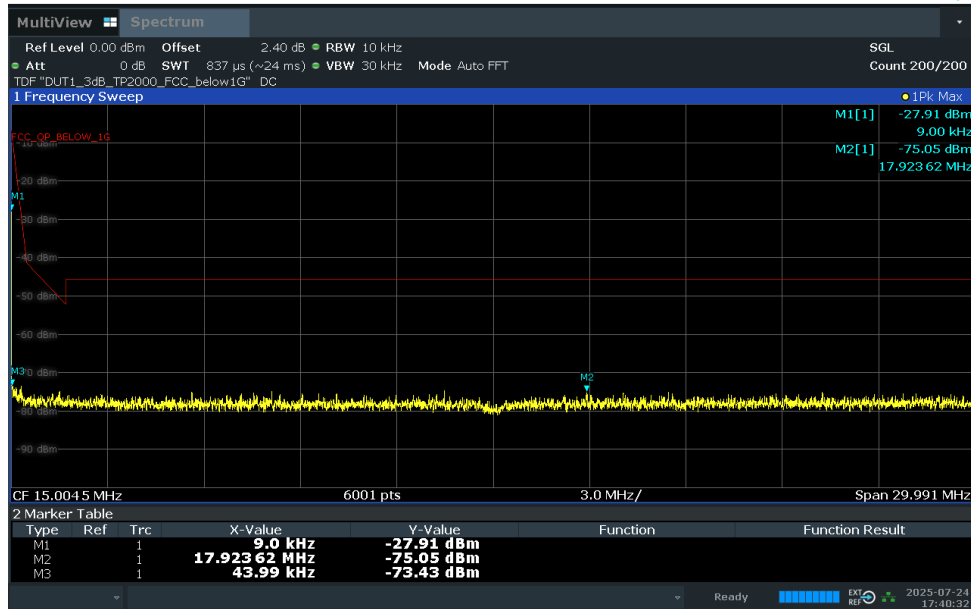
06:19:09 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 26GHz - 40GHz, Subband = U-NII-2C (S01_BC01)



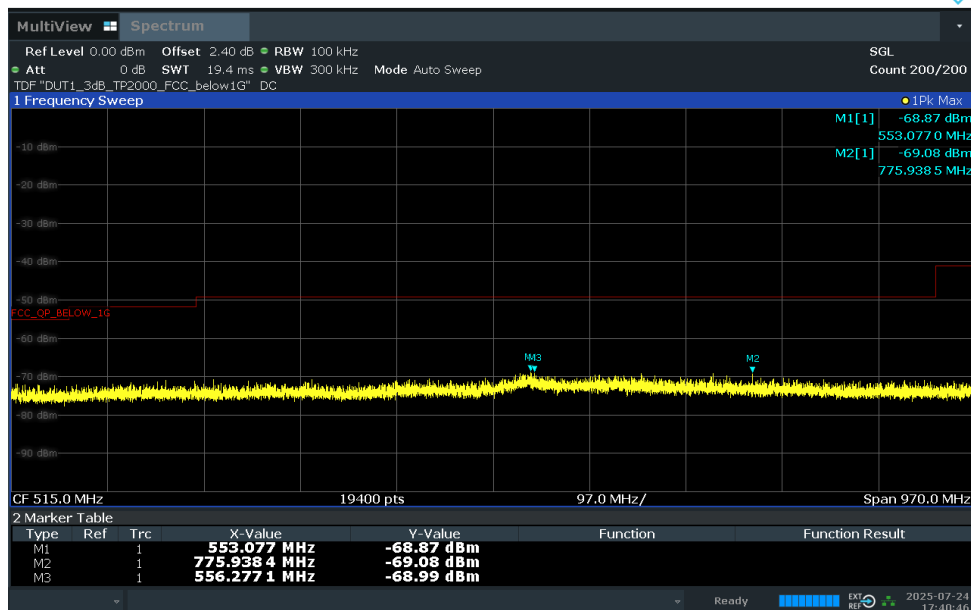
07:38:07 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 9kHz - 30MHz, Subband = U-NII-2C (S01_BC01)



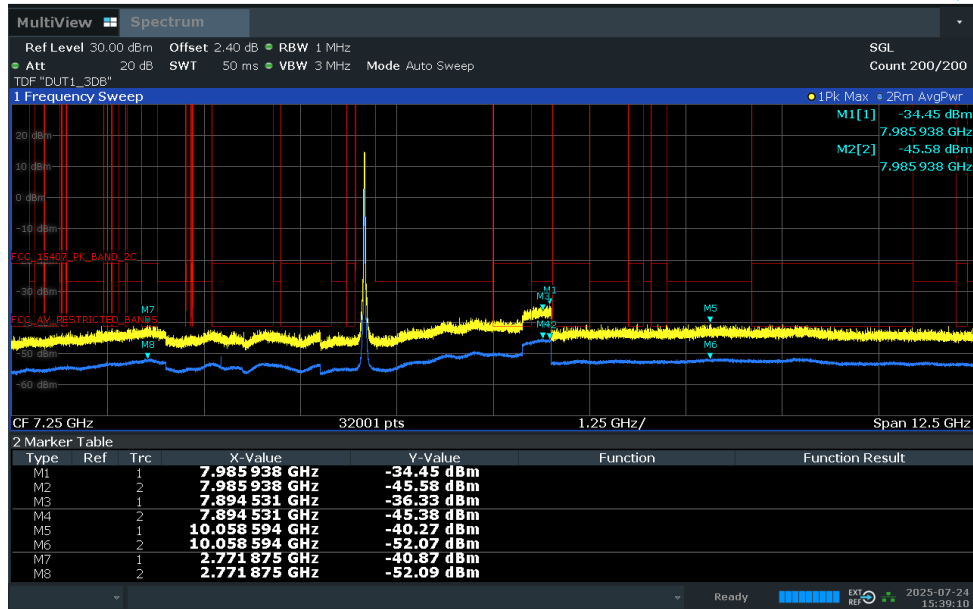
05:40:33 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 30MHz - 1GHz, Subband = U-NII-2C (S01_BC01)

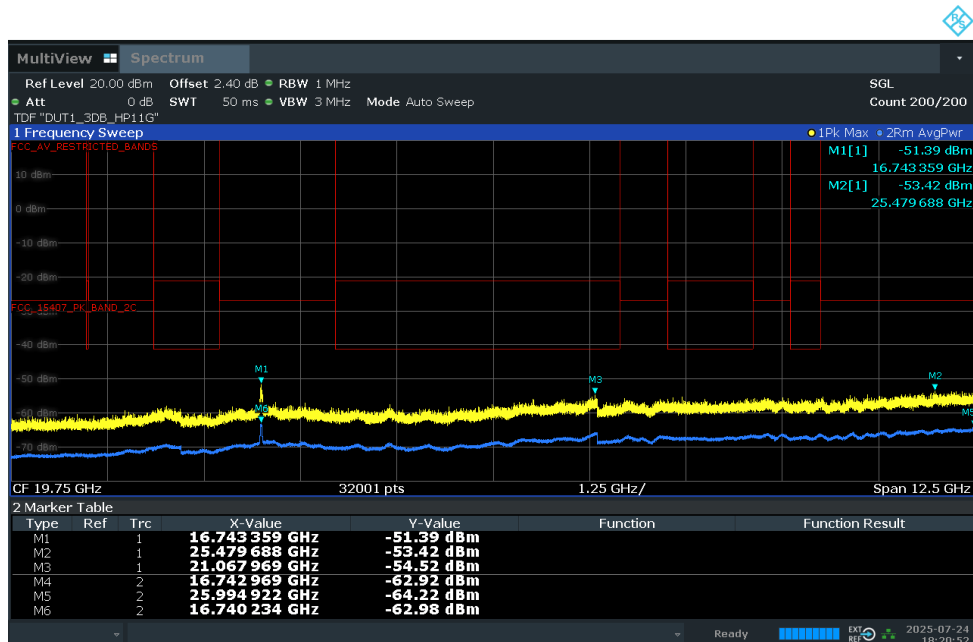


05:40:47 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 1GHz - 26GHz, Subband = U-NII-2C (S01_BC01)

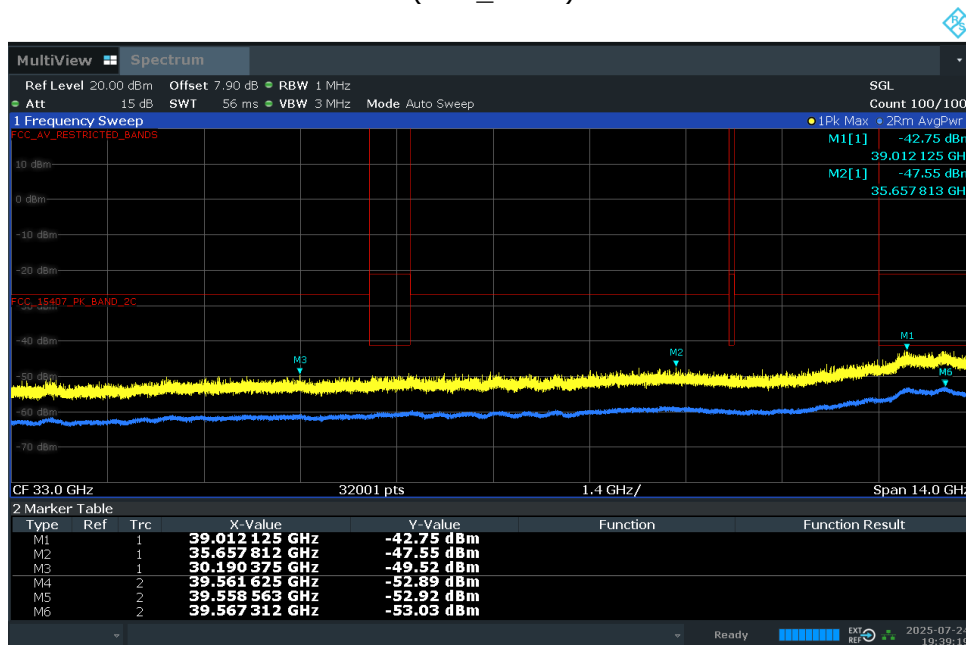


03:39:11 PM 07/24/2025



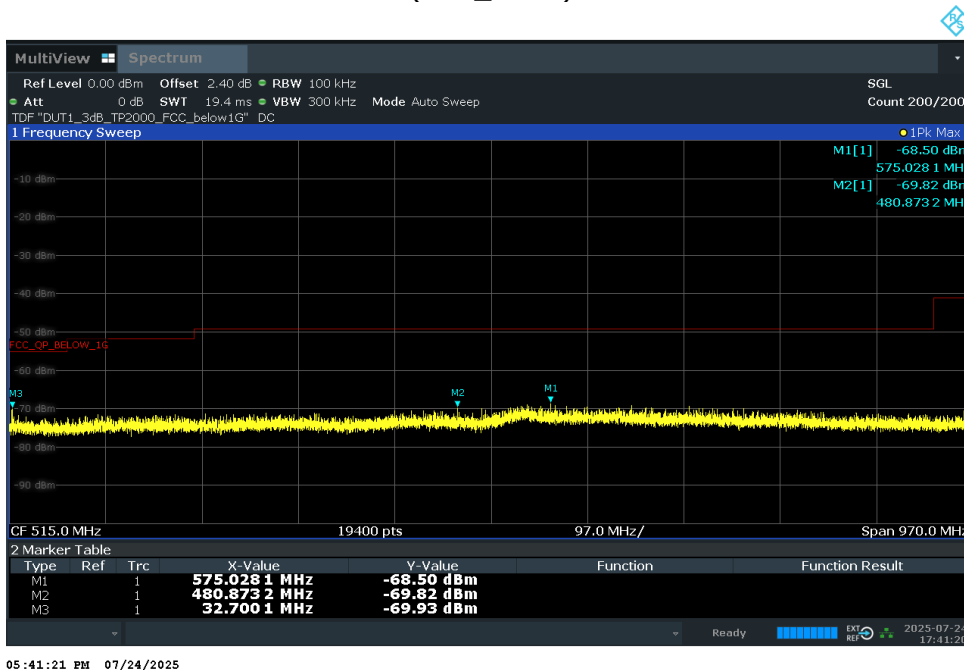
06:20:52 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 26GHz - 40GHz, Subband = U-NII-2C (S01_BC01)

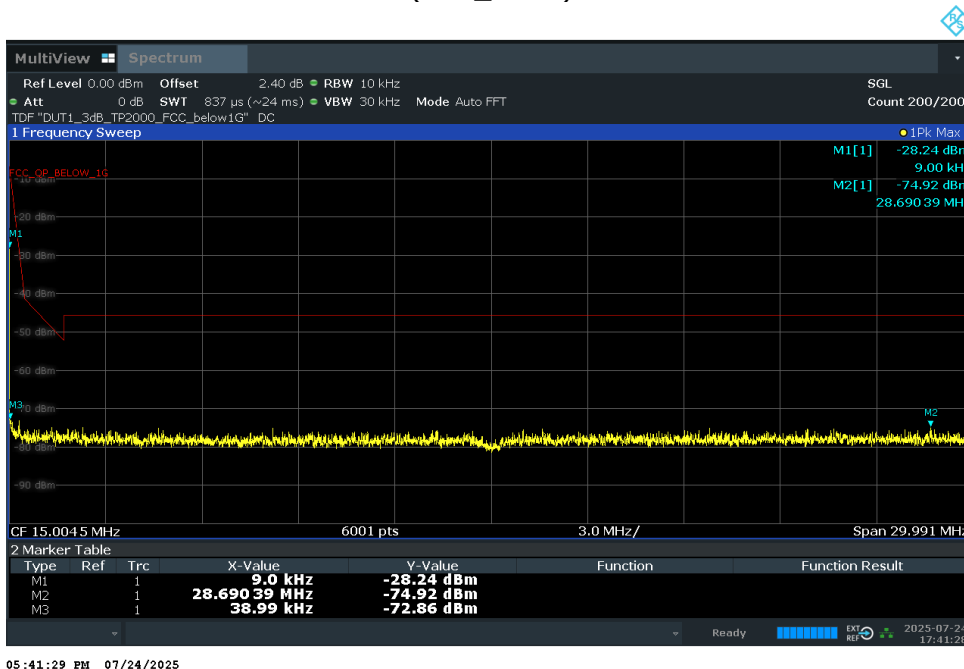


07:39:20 PM 07/24/2025

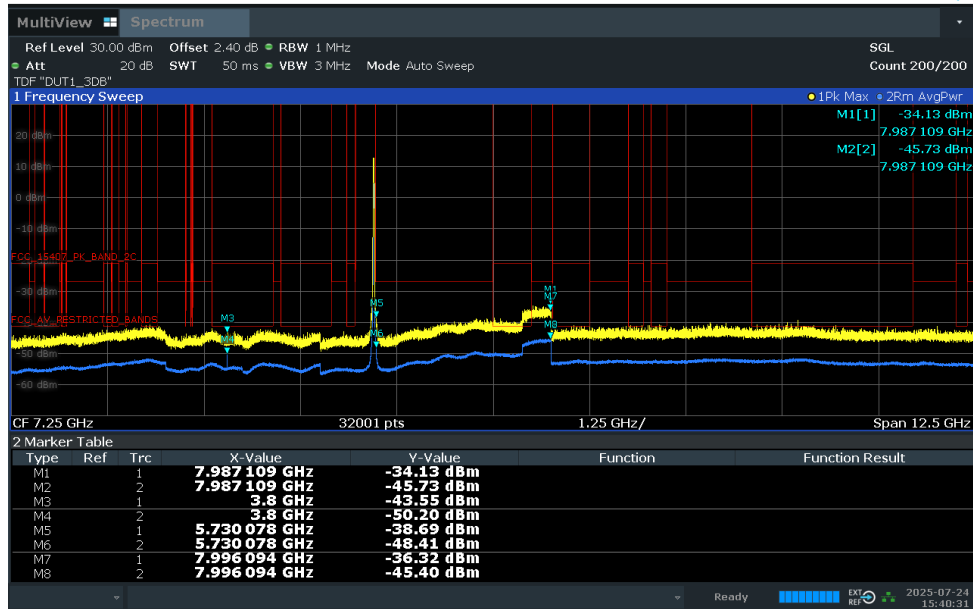
Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 9kHz - 30MHz, Subband = U-NII-2C (S01_BC01)



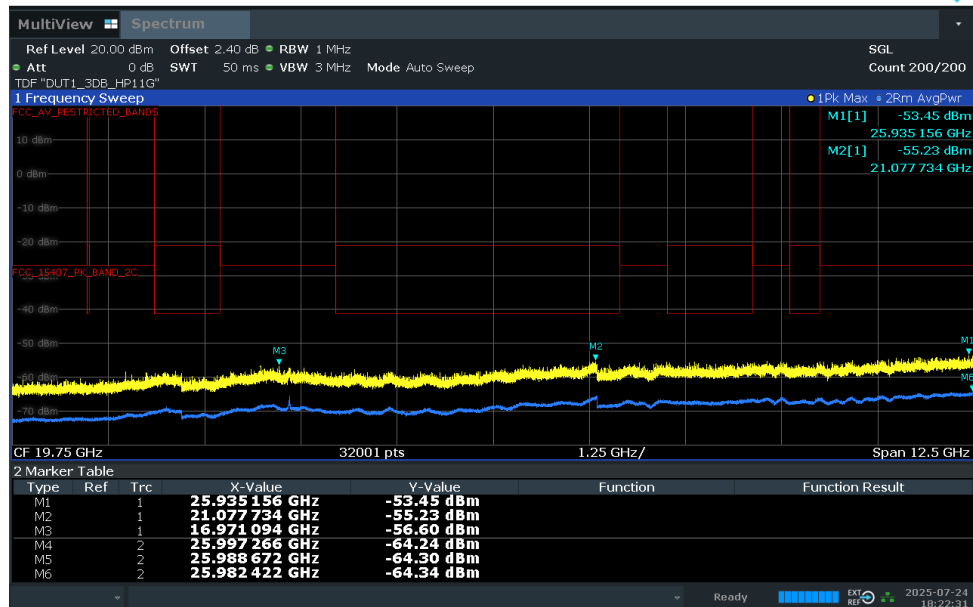
Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 30MHz - 1GHz, Subband = U-NII-2C (S01_BC01)



Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 1GHz - 26GHz, Subband = U-NII-2C (S01_BC01)

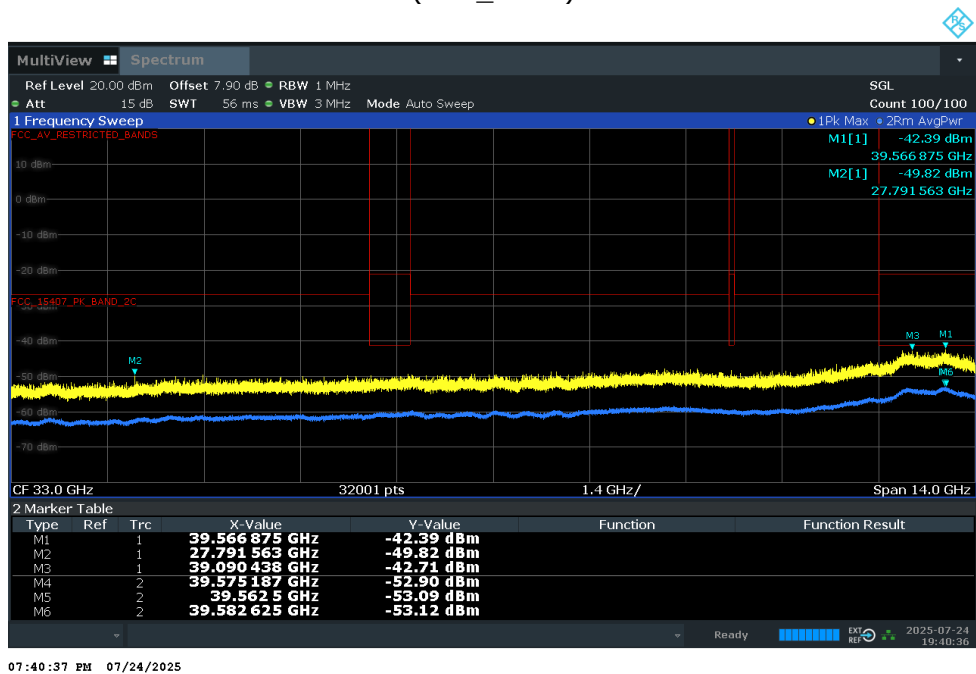


03:40:32 PM 07/24/2025



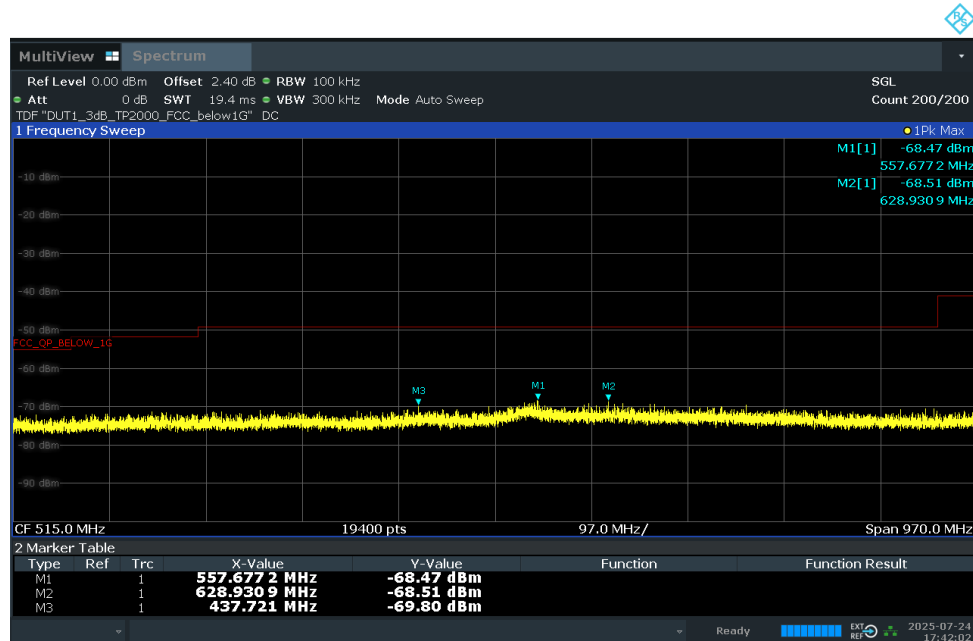
06:22:32 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 26GHz - 40GHz, Subband = U-NII-2C (S01_BC01)



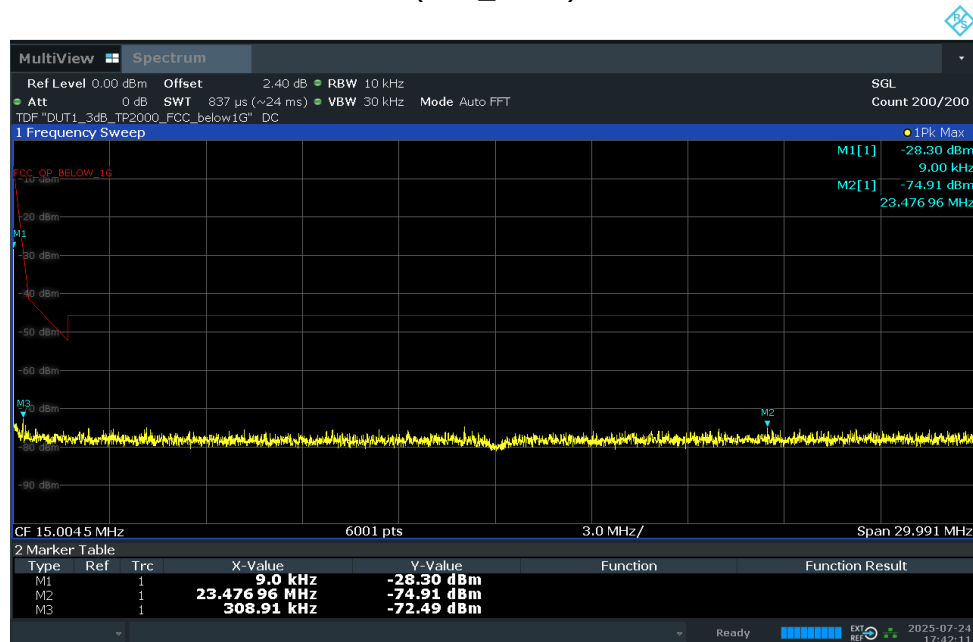
07:40:37 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 9kHz - 30MHz, Subband = U-NII-3 (S01_BC01)



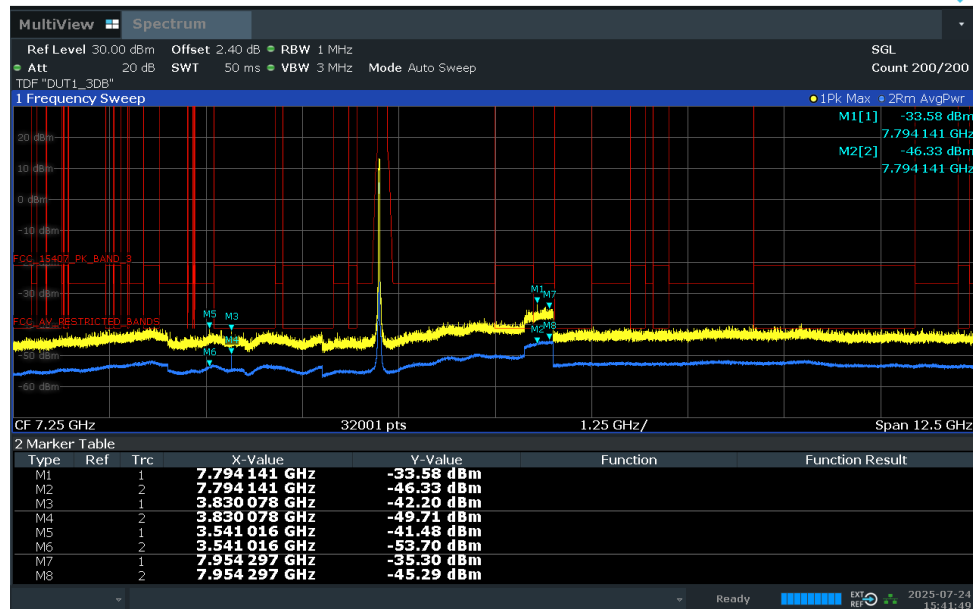
05:42:03 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 30MHz - 1GHz, Subband = U-NII-3 (S01_BC01)

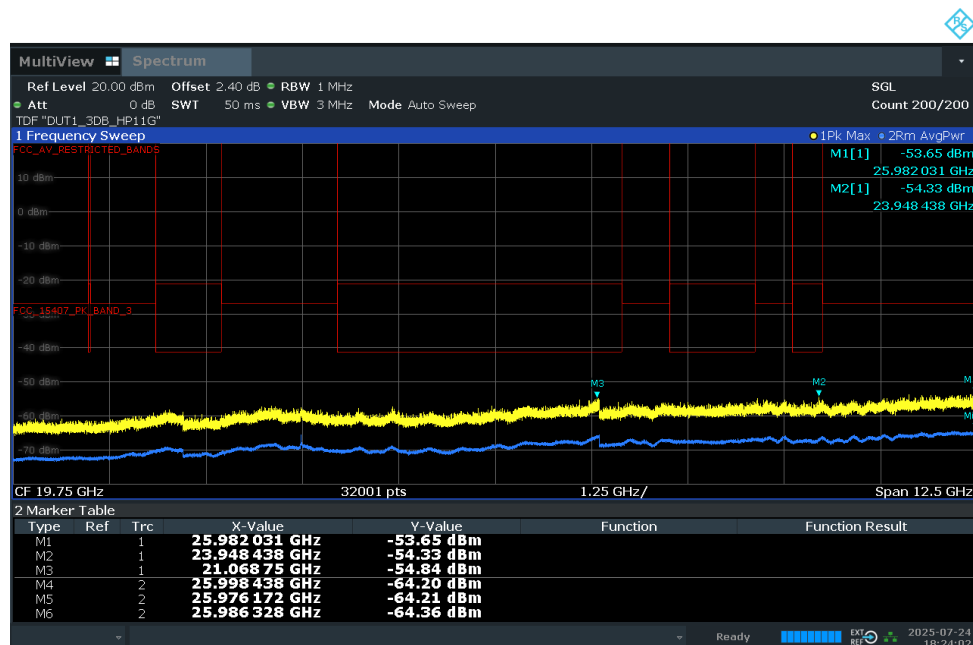


05:42:11 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 1GHz - 26GHz, Subband = U-NII-3 (S01_BC01)

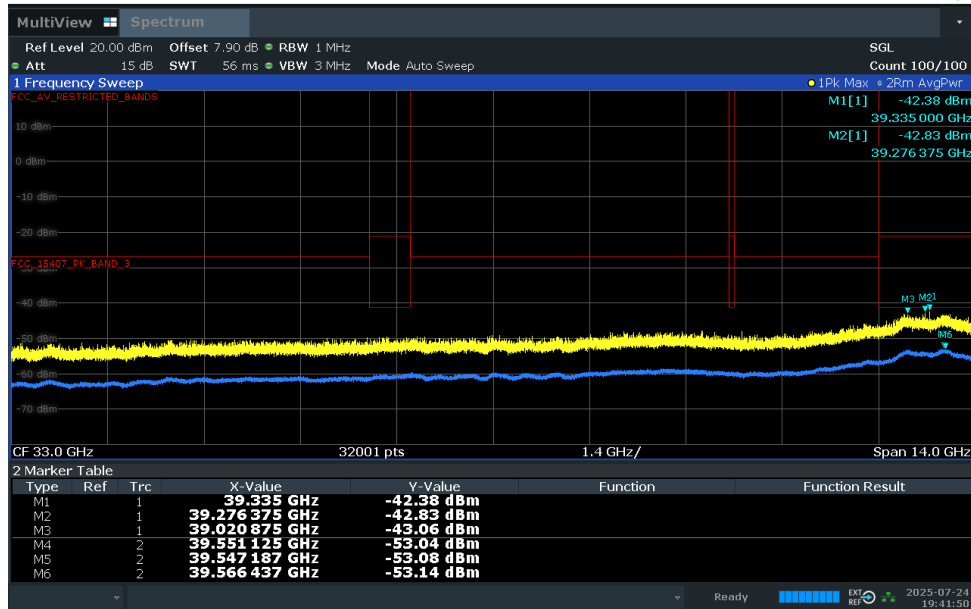


03:41:50 PM 07/24/2025



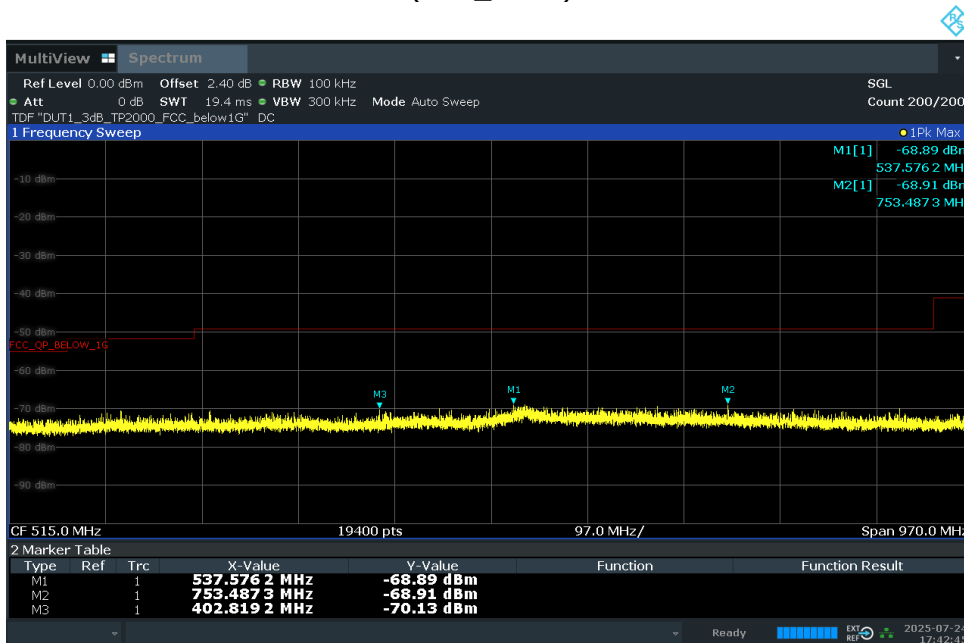
06:24:02 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 26GHz - 40GHz, Subband = U-NII-3 (S01_BC01)



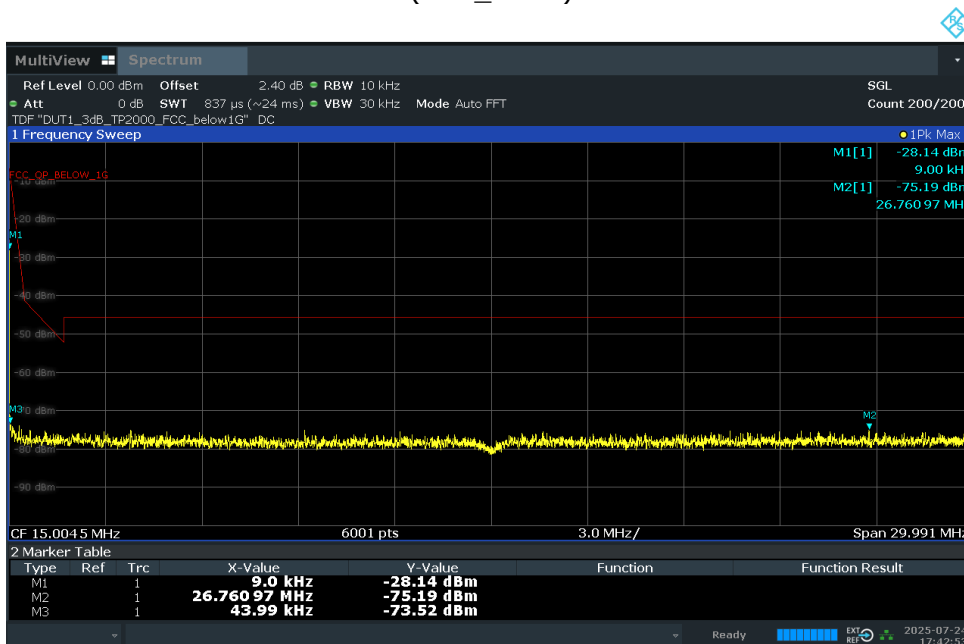
07:41:51 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 9kHz - 30MHz, Subband = U-NII-3 (S01_BC01)



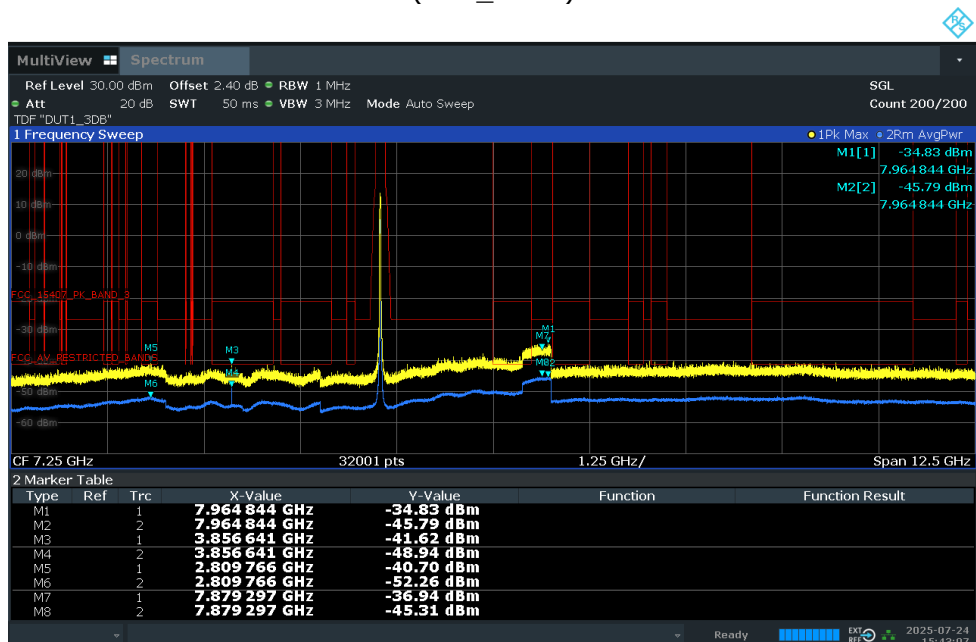
05:42:46 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 30MHz - 1GHz, Subband = U-NII-3 (S01_BC01)

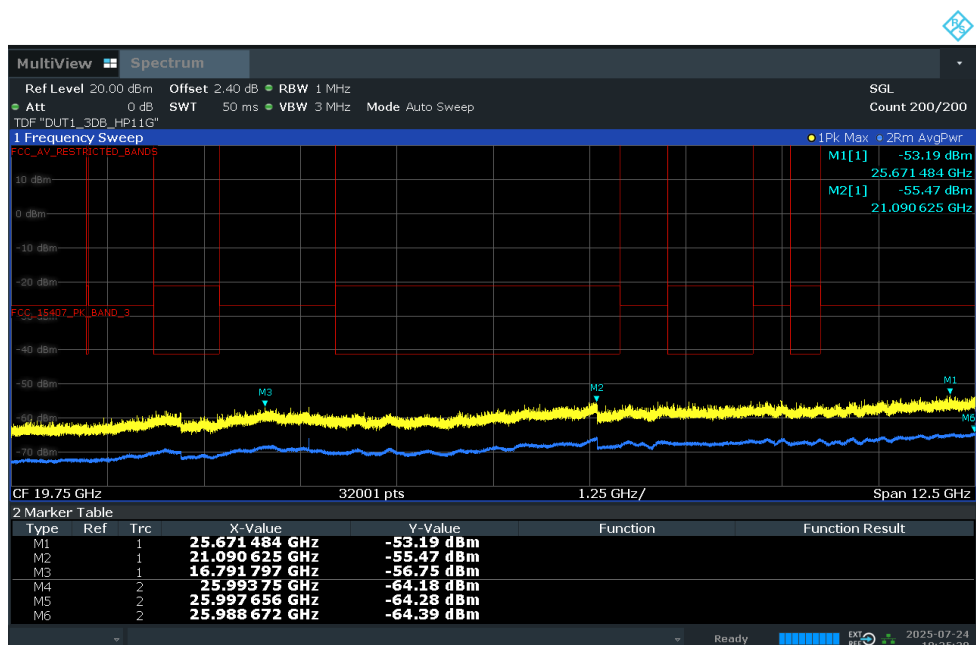


05:42:54 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 1GHz - 26GHz, Subband = U-NII-3 (S01_BC01)

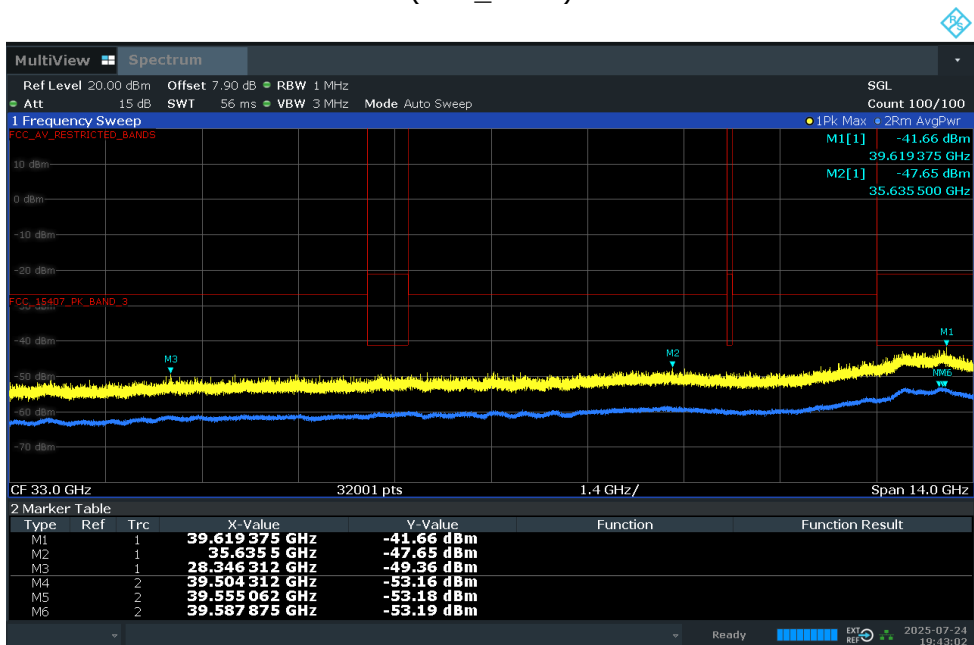


03:43:08 PM 07/24/2025



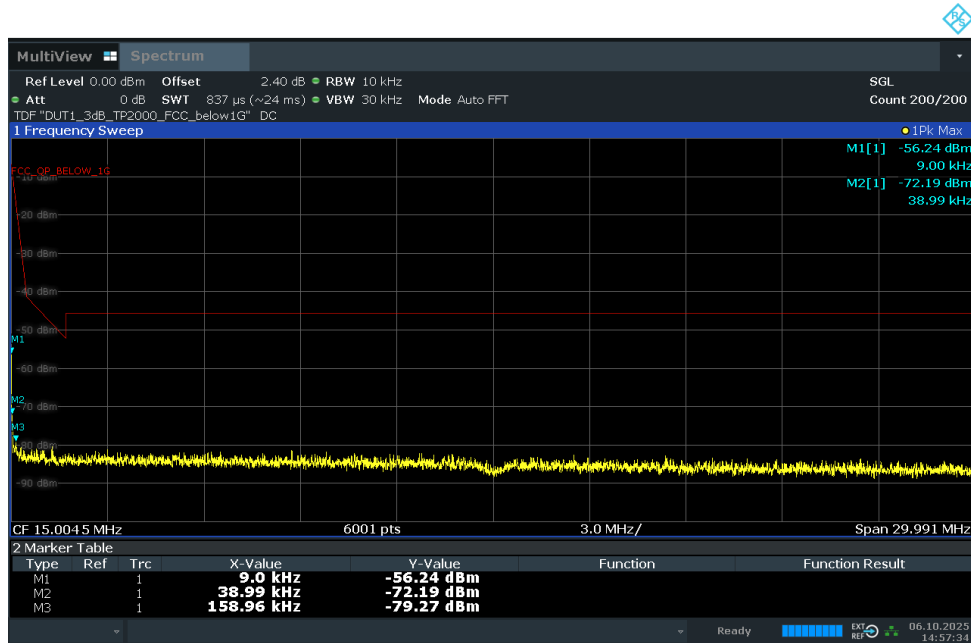
06:25:38 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 26GHz - 40GHz, Subband = U-NII-3 (S01_BC01)



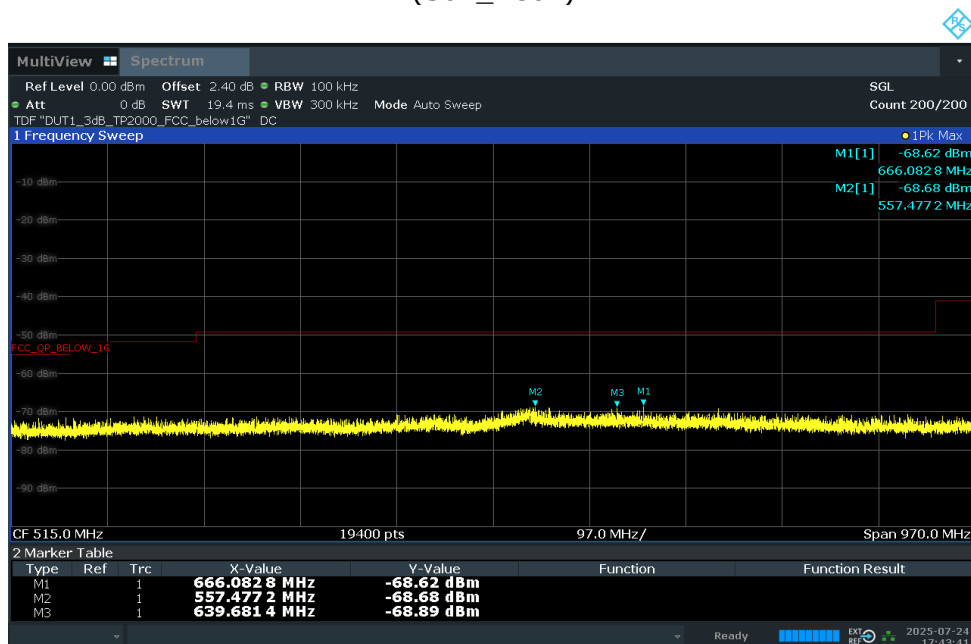
07:43:03 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 9kHz - 30MHz, Subband = U-NII-3 (S01_BC01)



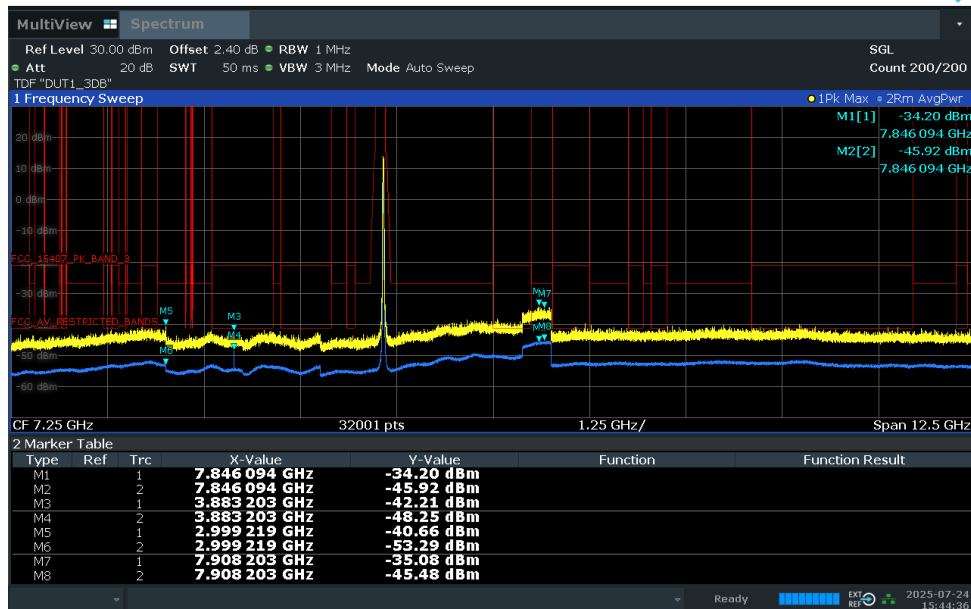
14:57:34 06.10.2025

Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 30MHz - 1GHz, Subband = U-NII-3 (S01_BC01)

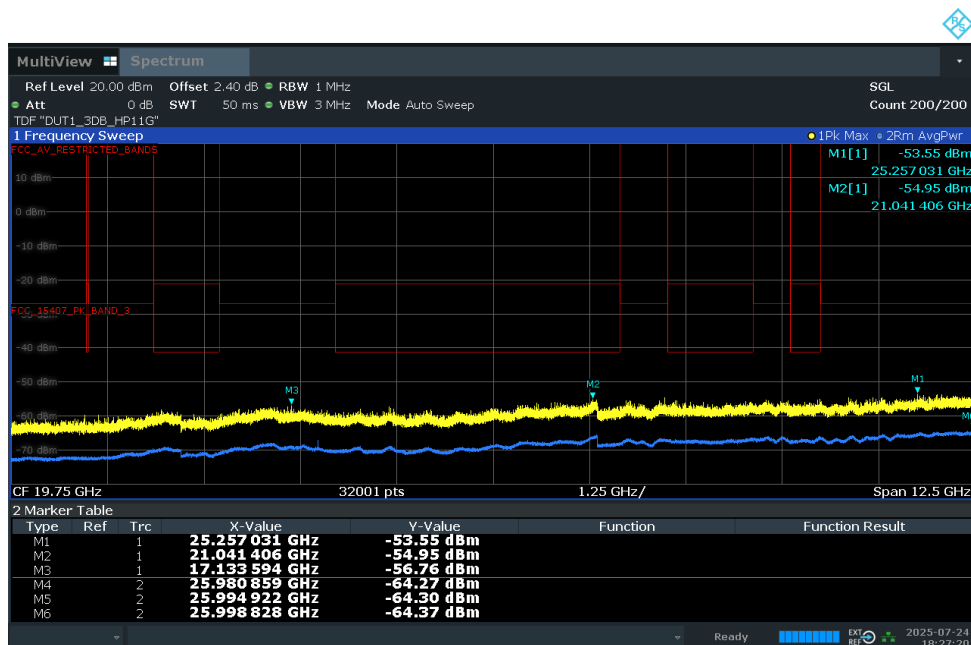


05:43:42 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 1GHz - 26GHz, Subband = U-NII-3 (S01_BC01)

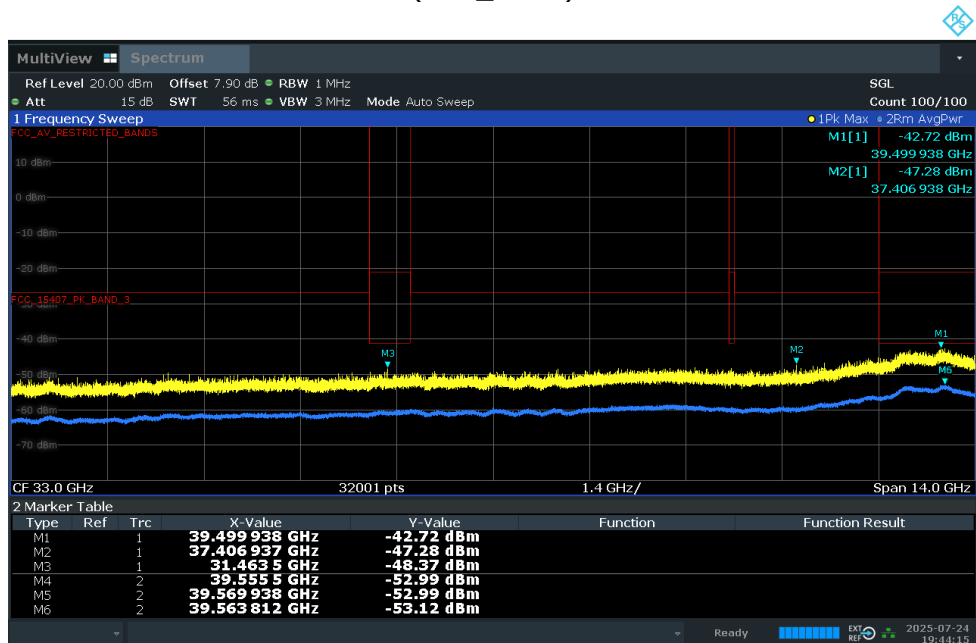


03:44:37 PM 07/24/2025



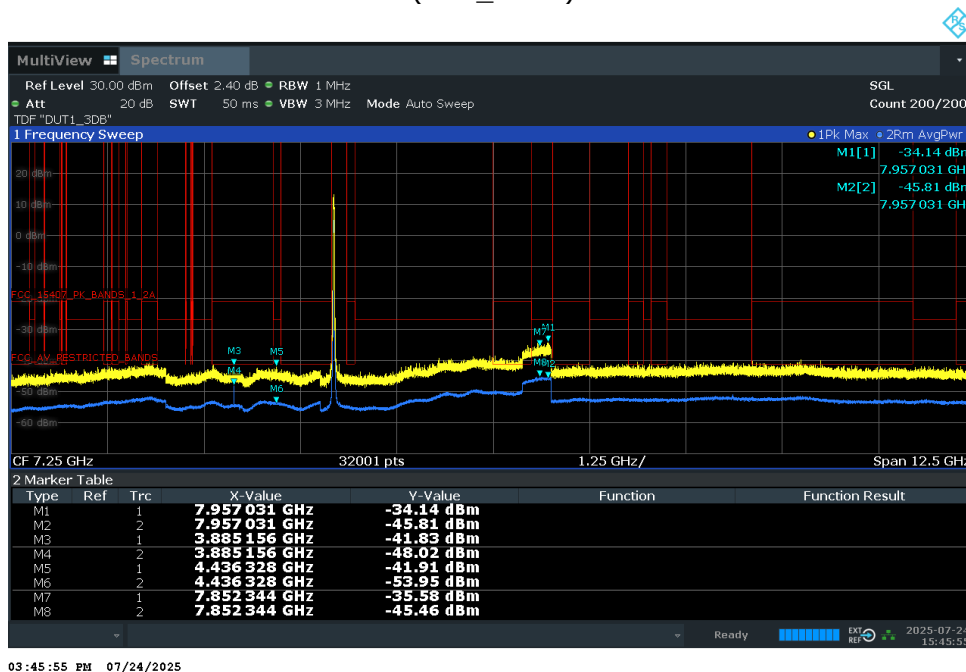
06:27:21 PM 07/24/2025

Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 26GHz - 40GHz, Subband = U-NII-3 (S01_BC01)



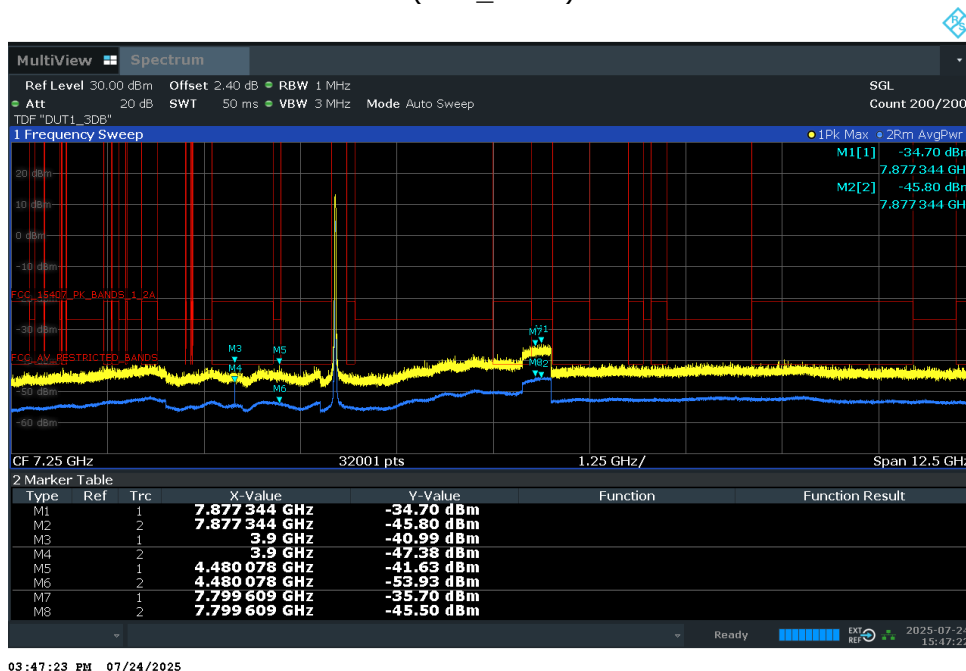
07:44:15 PM 07/24/2025

Radio Technology = WLAN n 20 MHz, Operating Frequency = low, Measurement range = 1GHz
 - 13.5GHz, Subband = U-NII-1
 (S01_BC01)



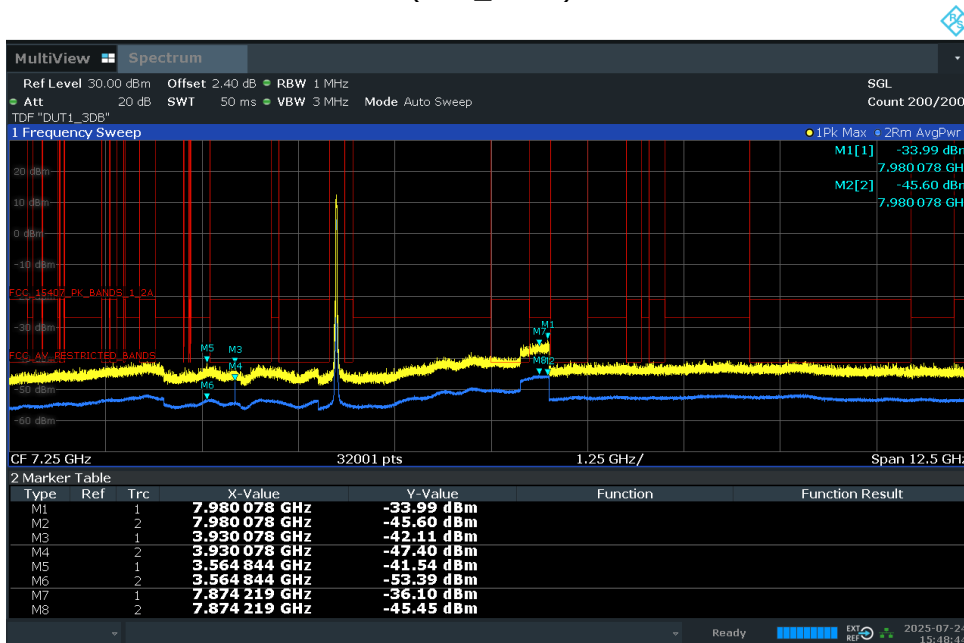
03:45:55 PM 07/24/2025

Radio Technology = WLAN n 20 MHz, Operating Frequency = mid, Measurement range = 1GHz
 - 13.5GHz, Subband = U-NII-1
 (S01_BC01)



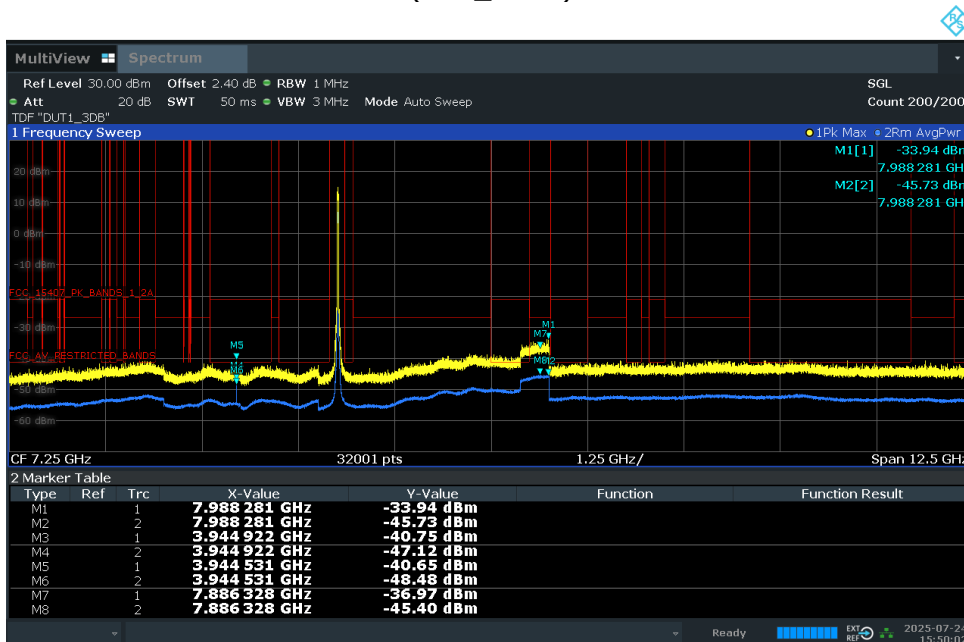
03:47:23 PM 07/24/2025

Radio Technology = WLAN n 20 MHz, Operating Frequency = high, Measurement range = 1GHz – 13.5GHz, Subband = U-NII-1
(S01_BC01)



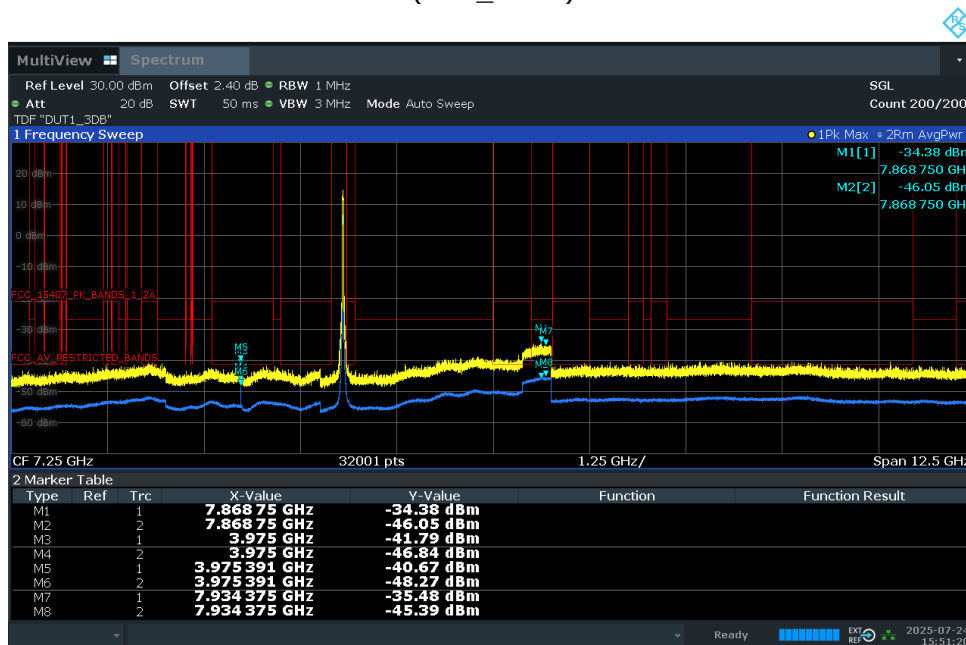
03:48:45 PM 07/24/2025

Radio Technology = WLAN n 20 MHz, Operating Frequency = low, Measurement range = 1GHz – 13.5GHz, Subband = U-NII-2A
(S01_BC01)



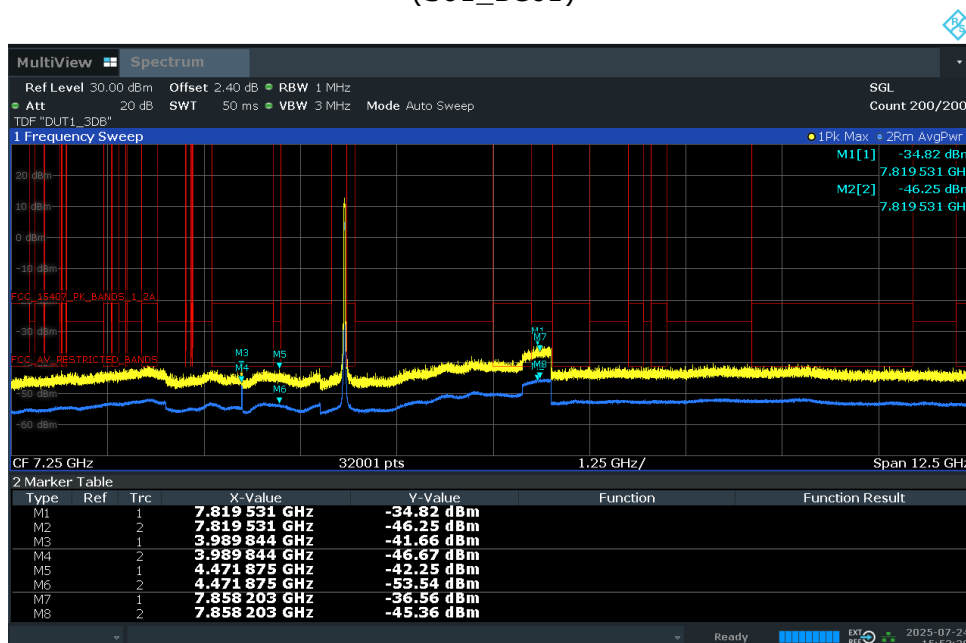
03:50:03 PM 07/24/2025

Radio Technology = WLAN n 20 MHz, Operating Frequency = mid, Measurement range = 1GHz
- 13.5GHz, Subband = U-NII-2A
(S01_BC01)



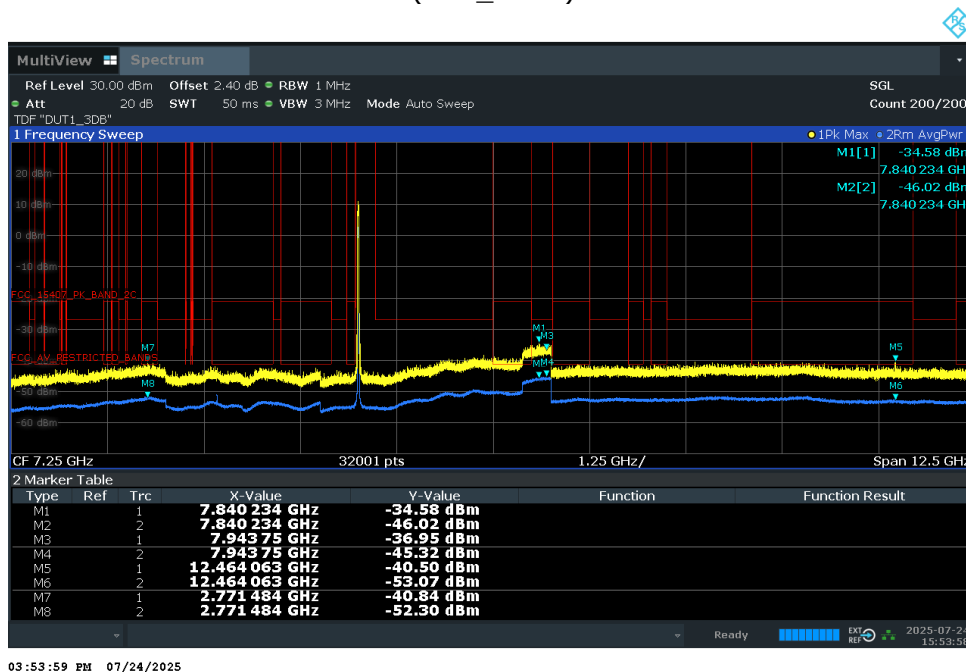
03:51:21 PM 07/24/2025

Radio Technology = WLAN n 20 MHz, Operating Frequency = high, Measurement range =
1GHz - 13.5GHz, Subband = U-NII-2A
(S01_BC01)



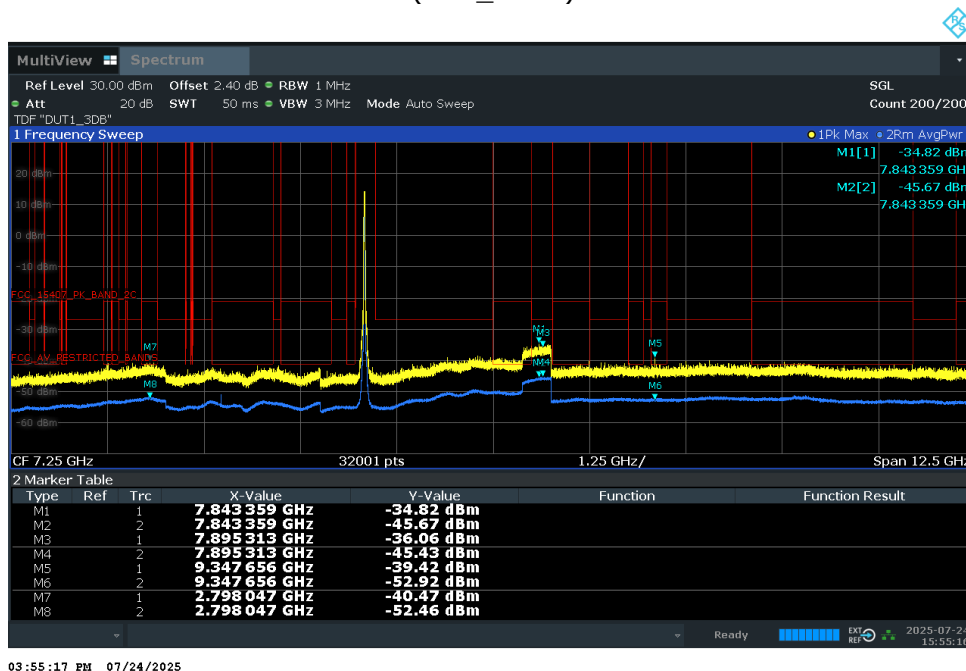
03:52:39 PM 07/24/2025

Radio Technology = WLAN n 20 MHz, Operating Frequency = low, Measurement range = 1GHz
 - 13.5GHz, Subband = U-NII-2C
 (S01_BC01)



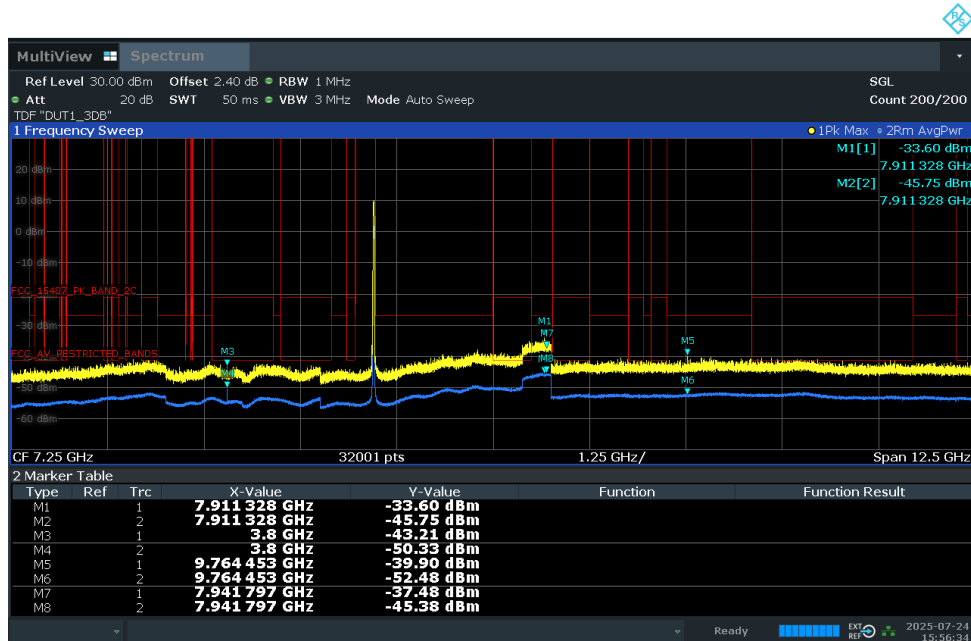
03:53:59 PM 07/24/2025

Radio Technology = WLAN n 20 MHz, Operating Frequency = mid, Measurement range = 1GHz
 - 13.5GHz, Subband = U-NII-2C
 (S01_BC01)



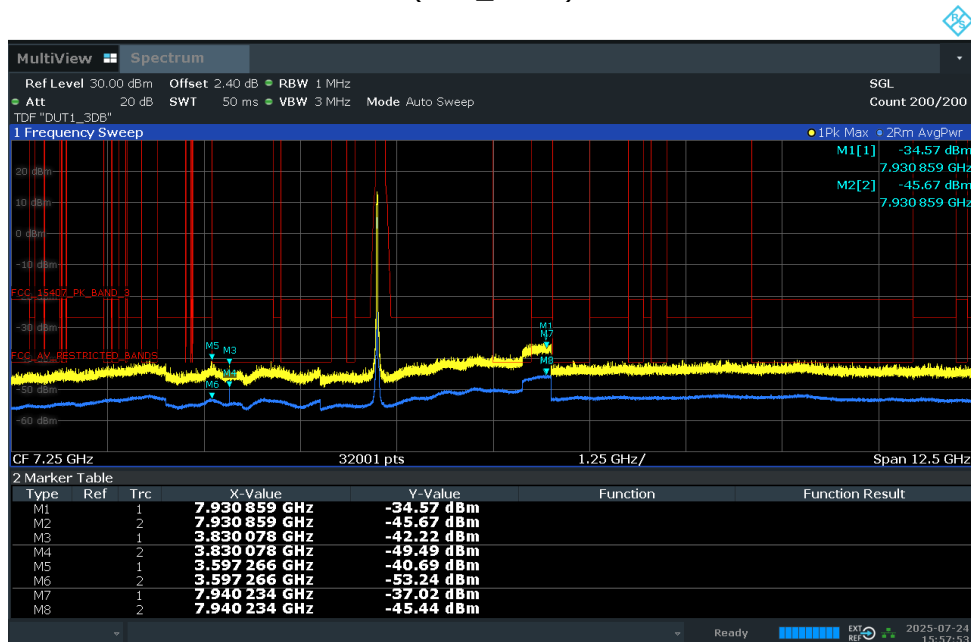
03:55:17 PM 07/24/2025

Radio Technology = WLAN n 20 MHz, Operating Frequency = high, Measurement range = 1GHz – 13.5GHz, Subband = U-NII-2C
(S01_BC01)



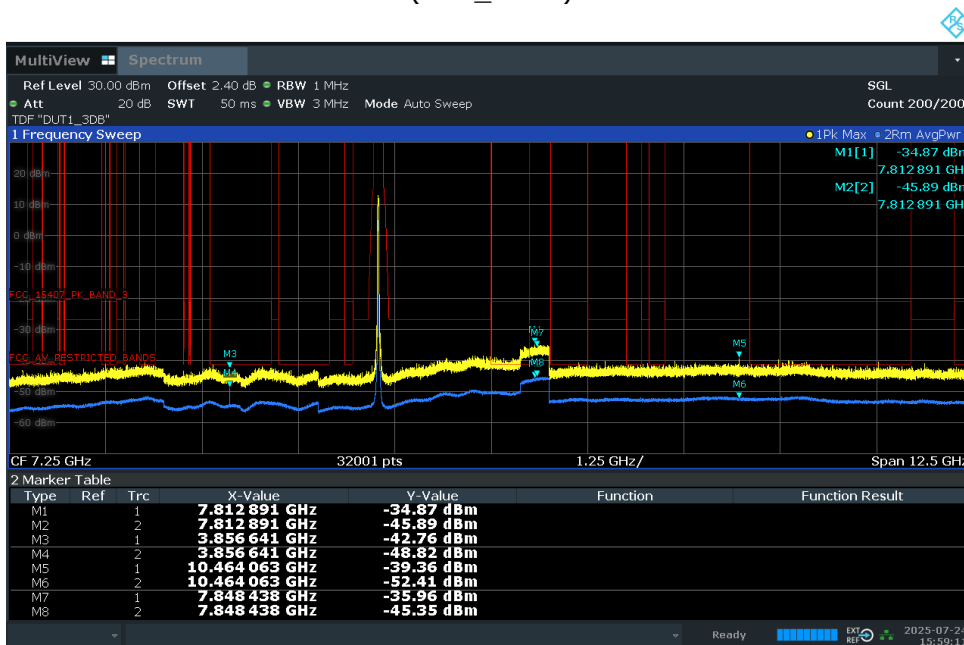
03:56:35 PM 07/24/2025

Radio Technology = WLAN n 20 MHz, Operating Frequency = low, Measurement range = 1GHz – 13.5GHz, Subband = U-NII-3
(S01_BC01)



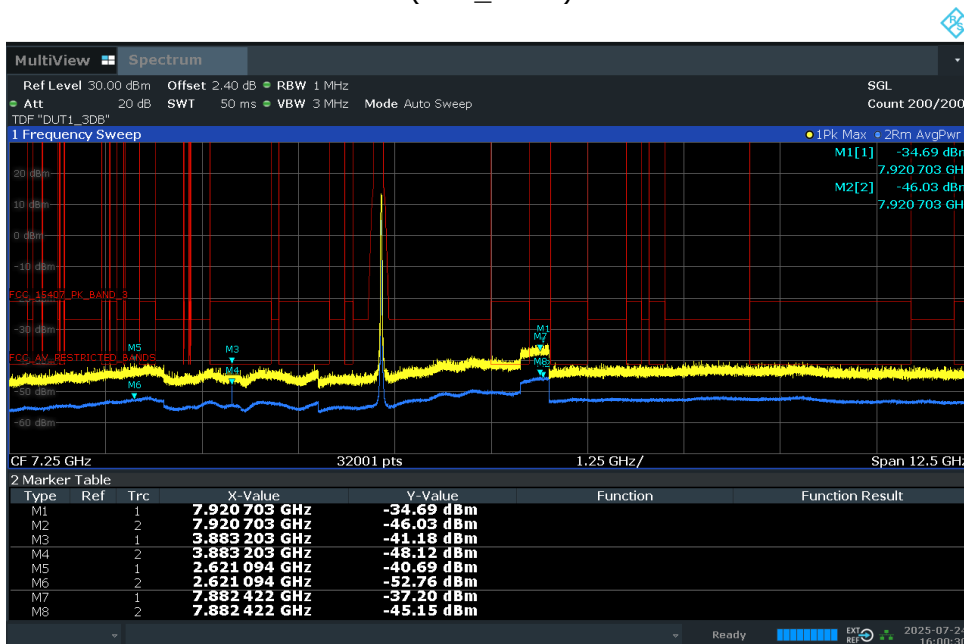
03:57:54 PM 07/24/2025

Radio Technology = WLAN n 20 MHz, Operating Frequency = mid, Measurement range = 1GHz
 - 13.5GHz, Subband = U-NII-3
 (S01_BC01)



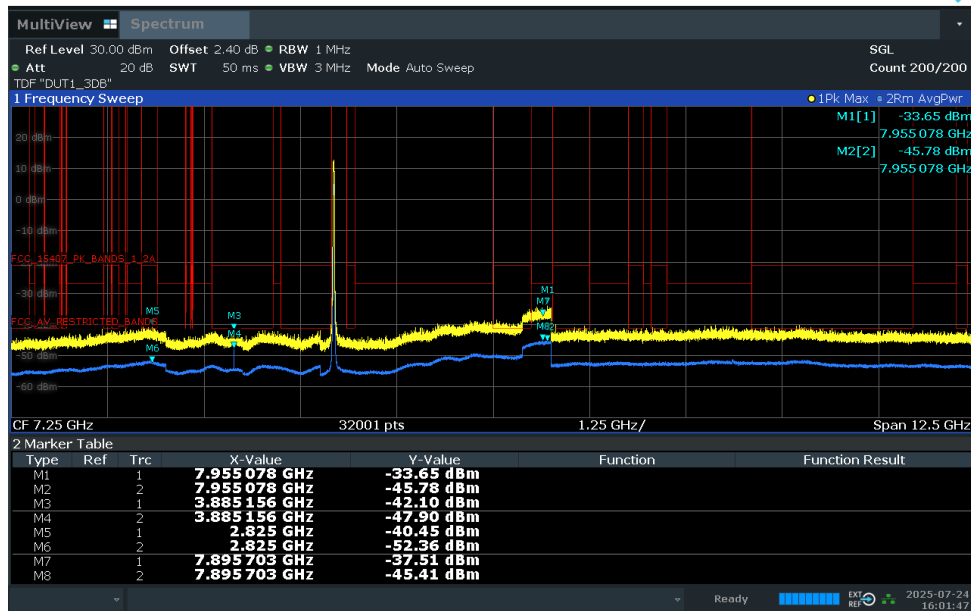
03:59:12 PM 07/24/2025

Radio Technology = WLAN n 20 MHz, Operating Frequency = high, Measurement range =
 1GHz - 13.5GHz, Subband = U-NII-3
 (S01_BC01)



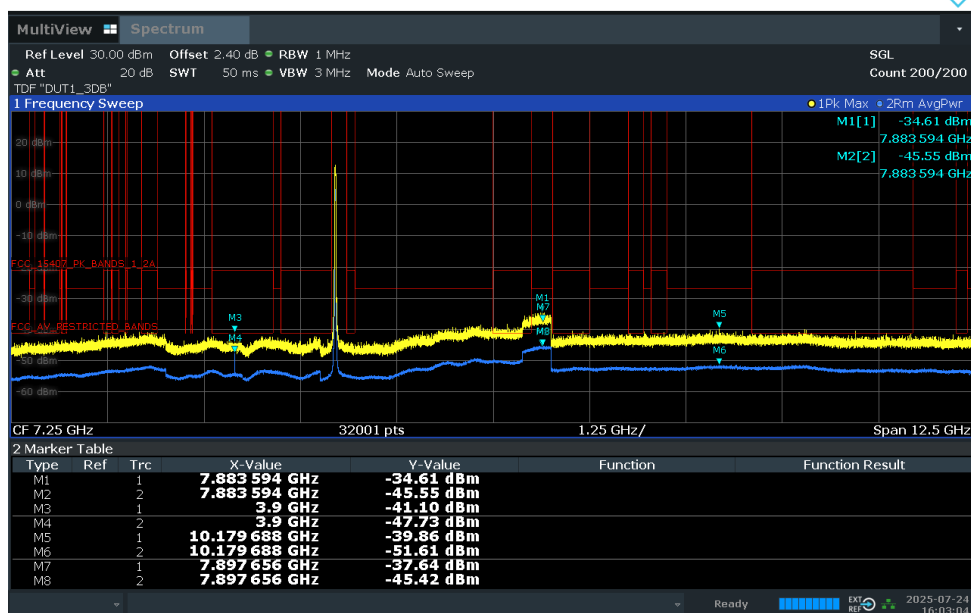
04:00:30 PM 07/24/2025

Radio Technology = WLAN ac 20 MHz, Operating Frequency = low, Measurement range = 1GHz - 13.5GHz, Subband = U-NII-1 (S01_BC01)



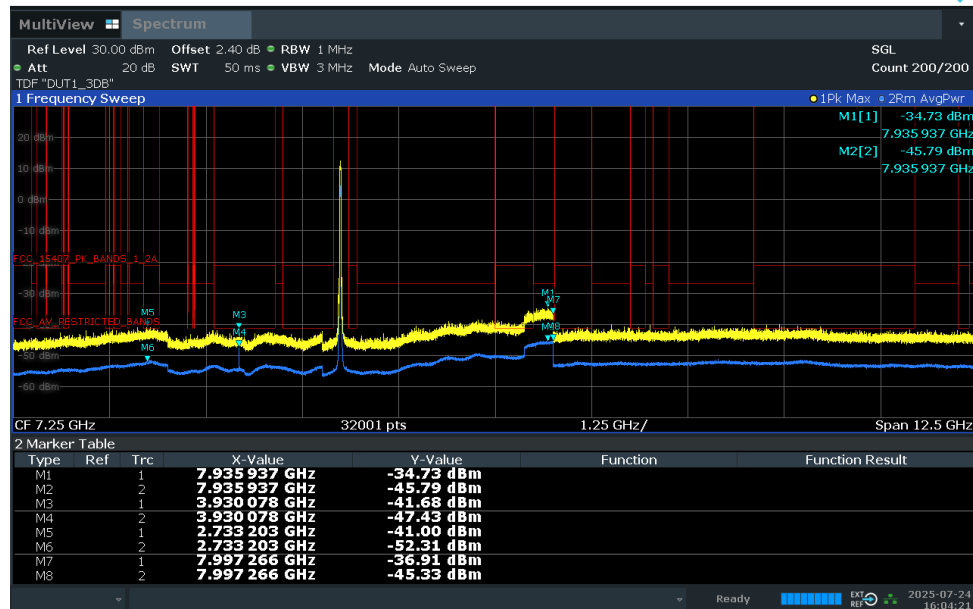
04:01:48 PM 07/24/2025

Radio Technology = WLAN ac 20 MHz, Operating Frequency = mid, Measurement range = 1GHz - 13.5GHz, Subband = U-NII-1 (S01_BC01)



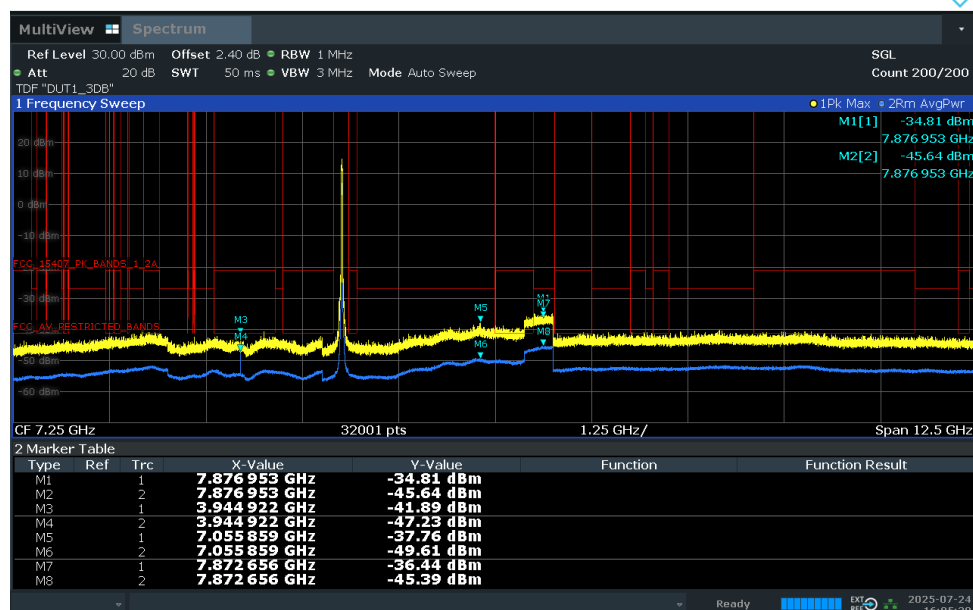
04:03:05 PM 07/24/2025

Radio Technology = WLAN ac 20 MHz, Operating Frequency = high, Measurement range = 1GHz - 13.5GHz, Subband = U-NII-1 (S01_BC01)



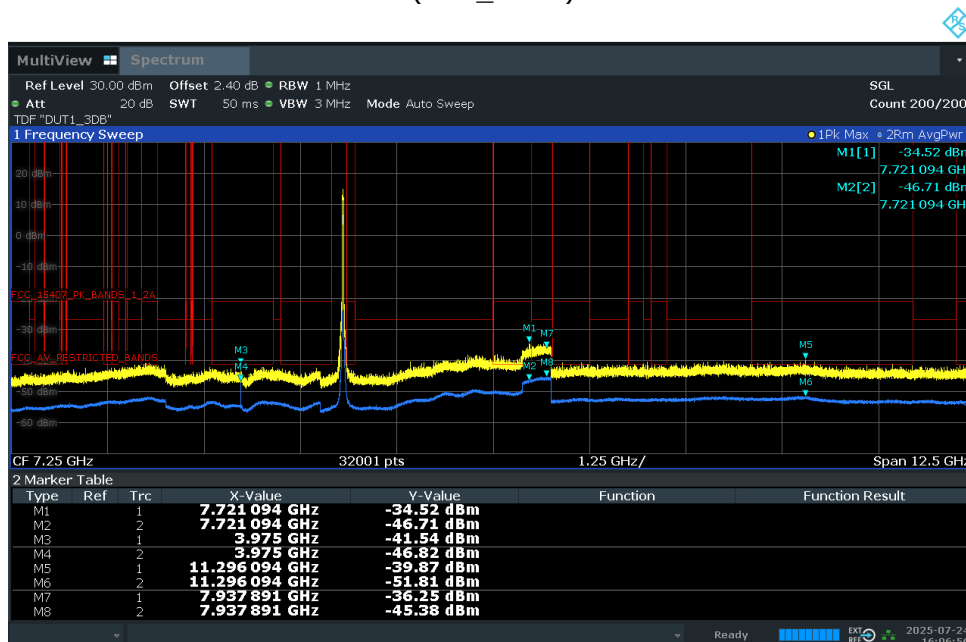
04:04:22 PM 07/24/2025

Radio Technology = WLAN ac 20 MHz, Operating Frequency = low, Measurement range = 1GHz - 13.5GHz, Subband = U-NII-2A (S01_BC01)



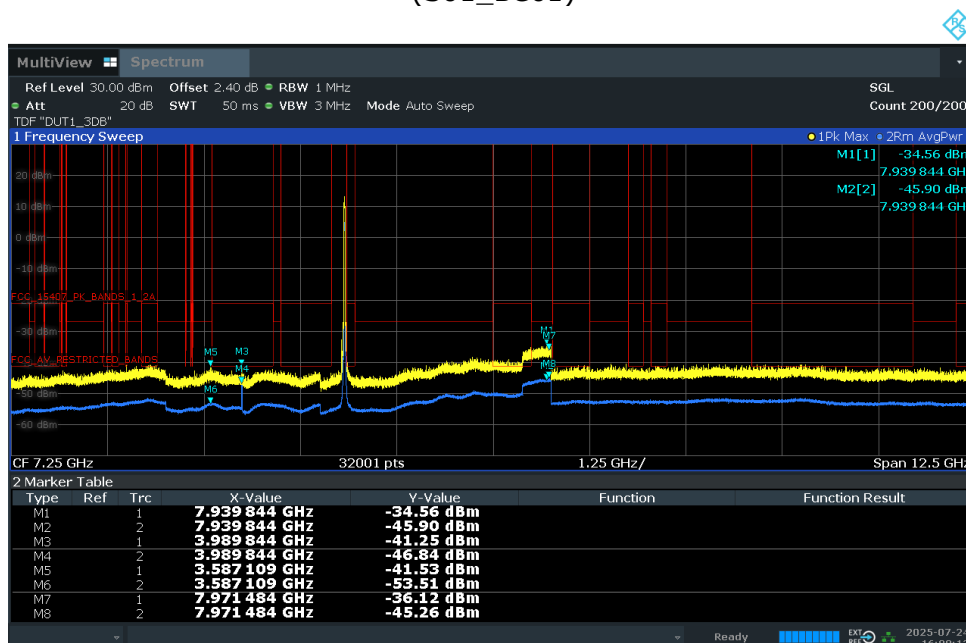
04:05:39 PM 07/24/2025

Radio Technology = WLAN ac 20 MHz, Operating Frequency = mid, Measurement range = 1GHz - 13.5GHz, Subband = U-NII-2A (S01_BC01)



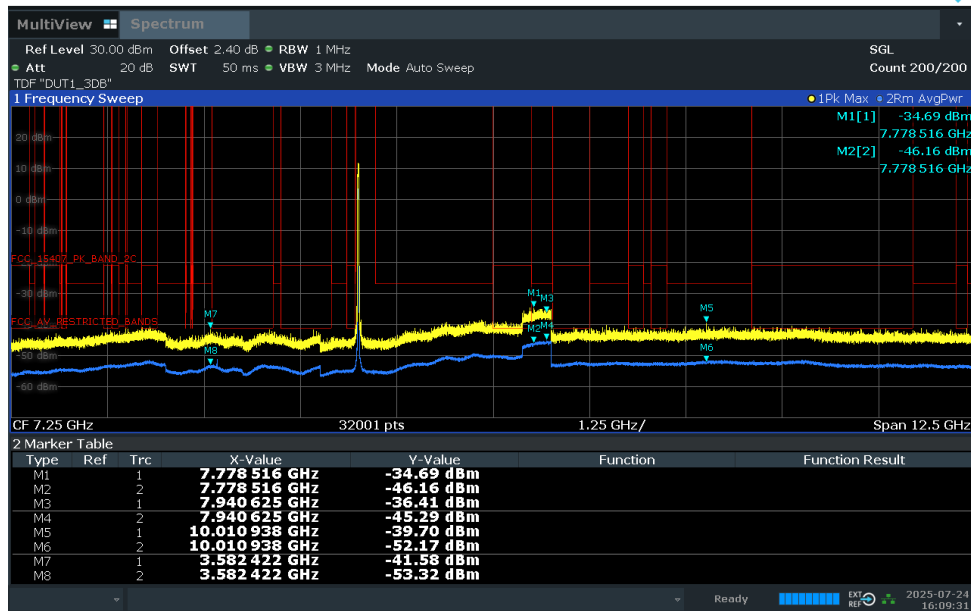
04:06:57 PM 07/24/2025

Radio Technology = WLAN ac 20 MHz, Operating Frequency = high, Measurement range = 1GHz - 13.5GHz, Subband = U-NII-2A (S01_BC01)



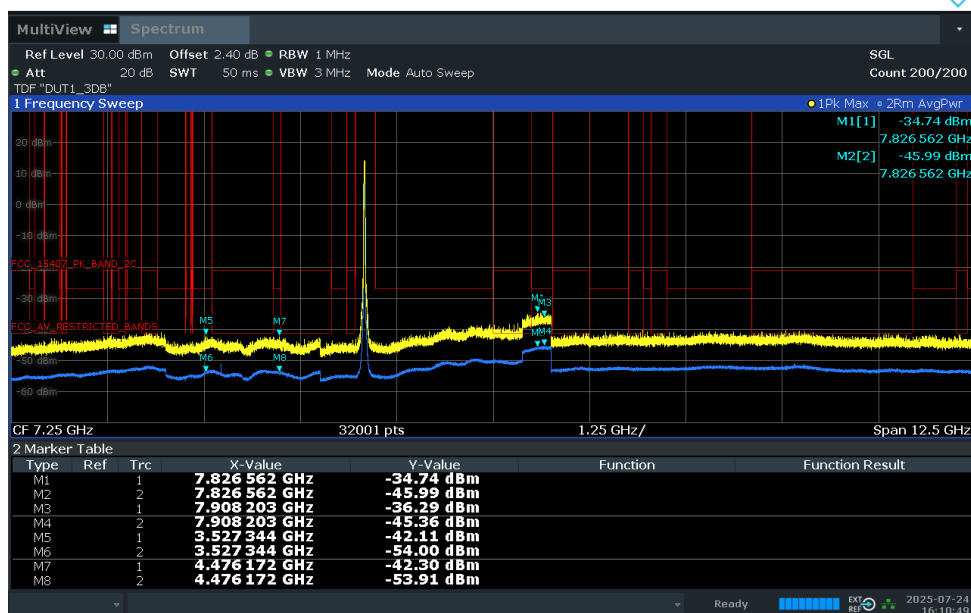
04:08:14 PM 07/24/2025

Radio Technology = WLAN ac 20 MHz, Operating Frequency = low, Measurement range =
1GHz - 13.5GHz, Subband = U-NII-2C
(S01_BC01)



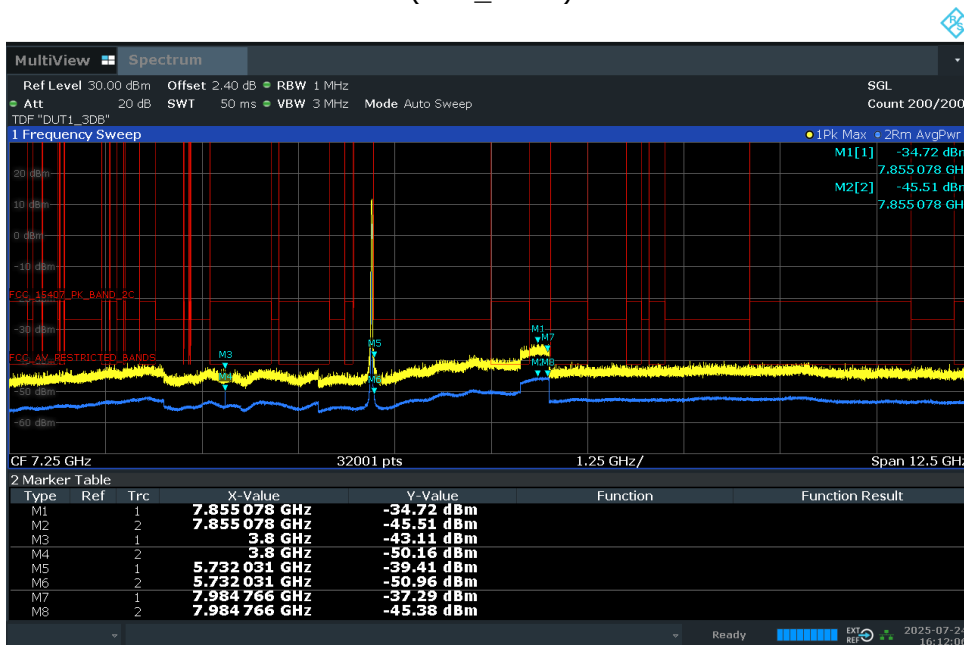
04:09:31 PM 07/24/2025

Radio Technology = WLAN ac 20 MHz, Operating Frequency = mid, Measurement range =
1GHz - 13.5GHz, Subband = U-NII-2C
(S01_BC01)



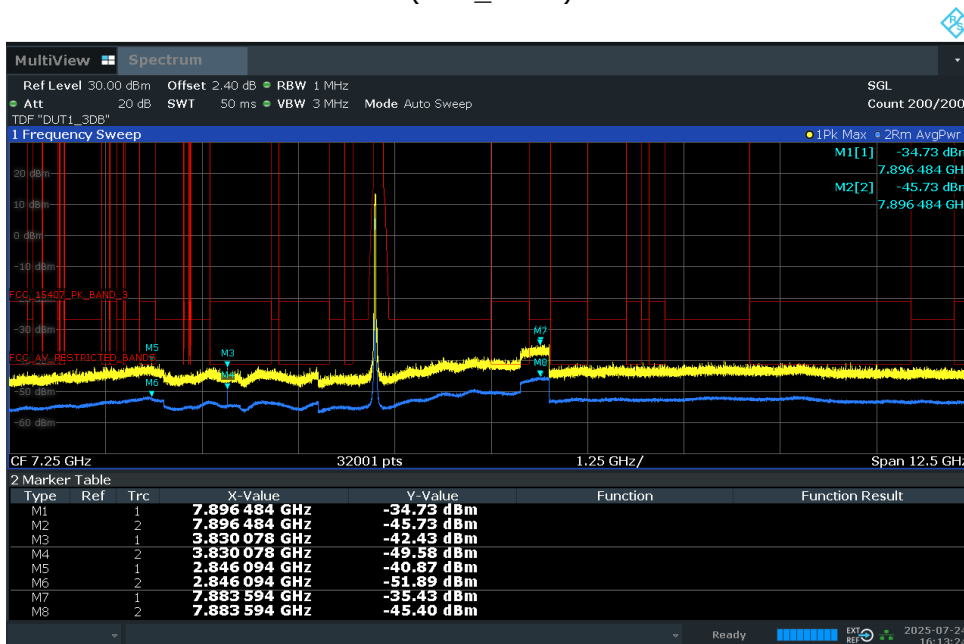
04:10:49 PM 07/24/2025

Radio Technology = WLAN ac 20 MHz, Operating Frequency = high, Measurement range = 1GHz - 13.5GHz, Subband = U-NII-2C (S01_BC01)



04:12:07 PM 07/24/2025

Radio Technology = WLAN ac 20 MHz, Operating Frequency = low, Measurement range = 1GHz - 13.5GHz, Subband = U-NII-3 (S01_BC01)



04:13:25 PM 07/24/2025