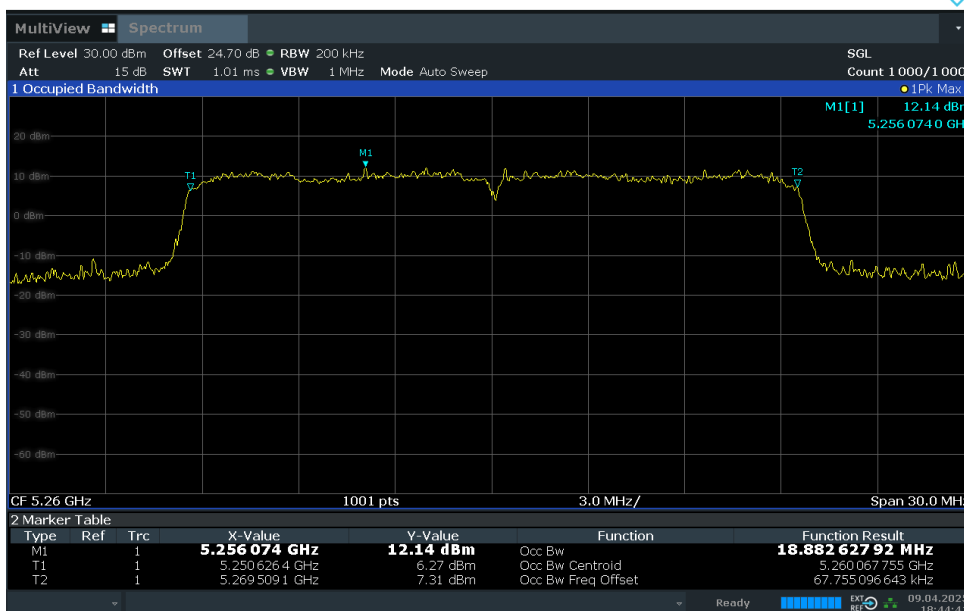
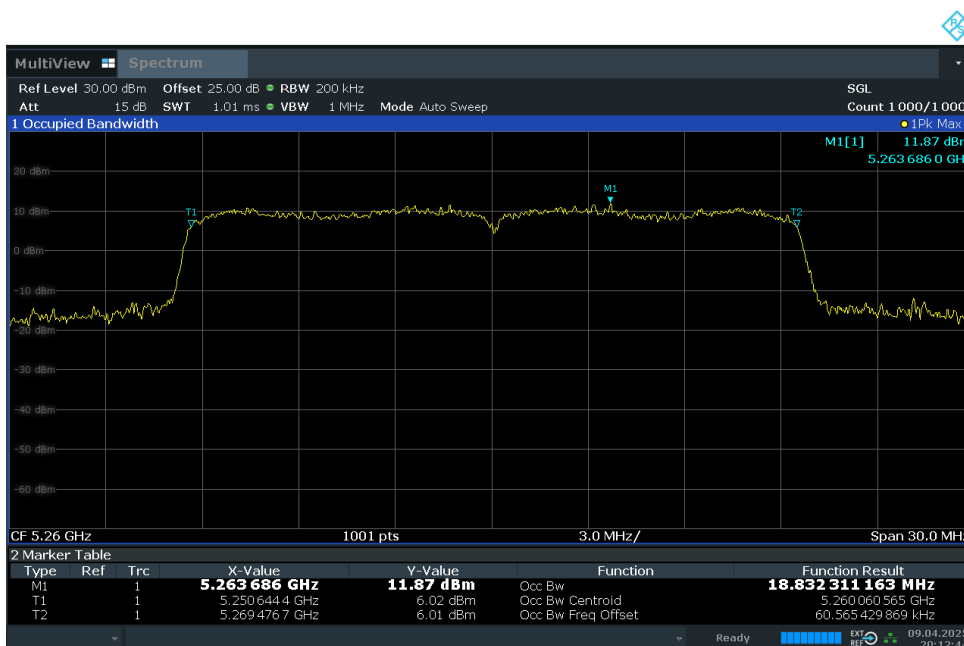


Radio Technology = WLAN ax 20 MHz, Operating Frequency = low, Subband = U-NII-2A (S01_AC01)



18:44:41 09.04.2025

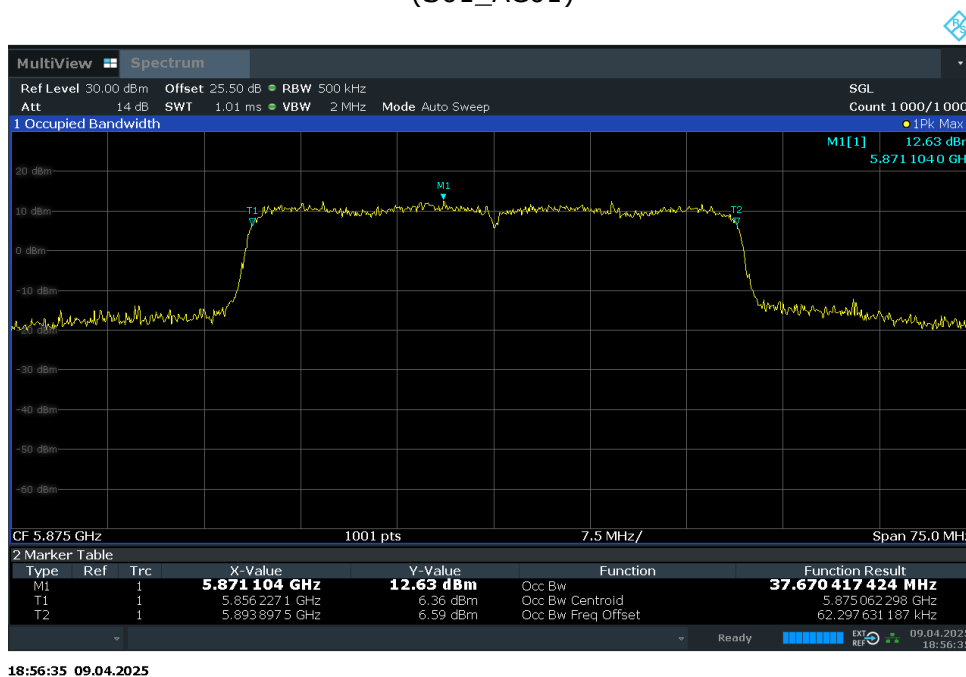
Path A



20:12:44 09.04.2025

Path B

Radio Technology = WLAN ax 40 MHz, Operating Frequency = low, Subband = U-NII-4
(S01_AC01)



18:56:35 09.04.2025

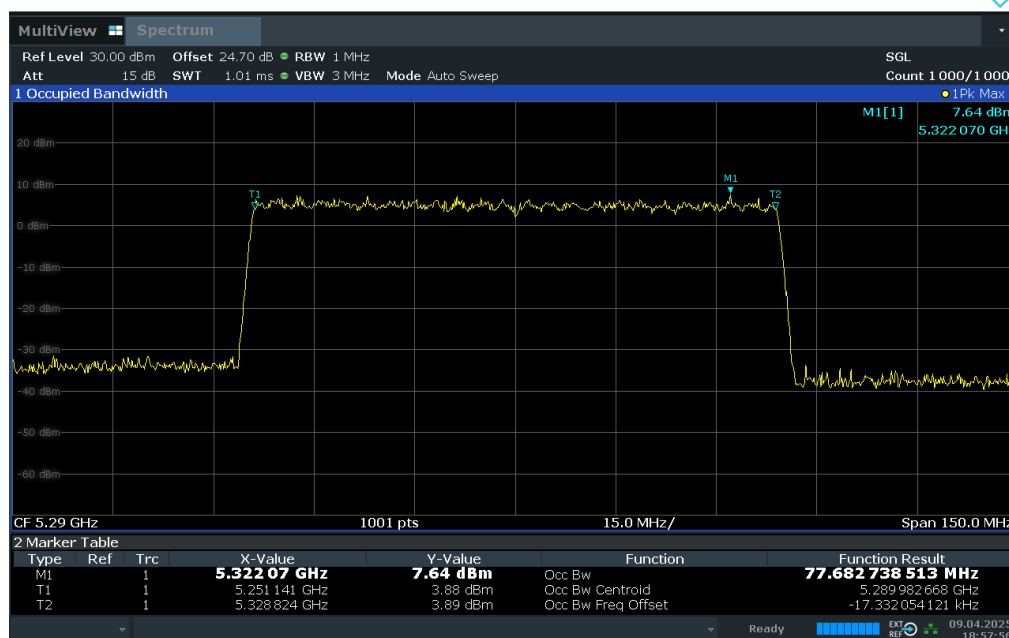
Path A



20:24:37 09.04.2025

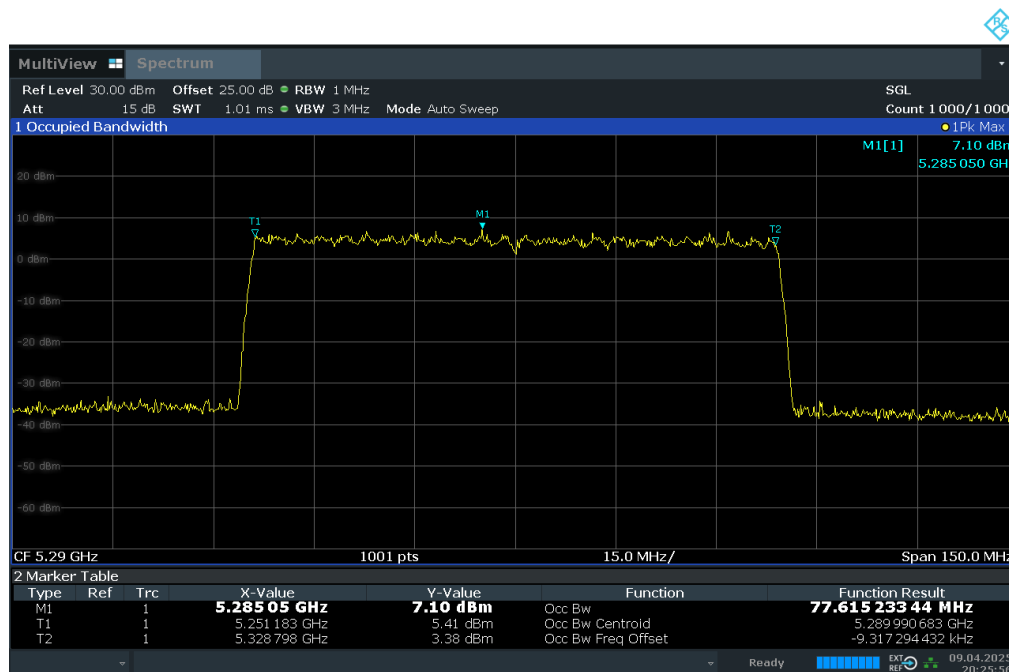
Path B

Radio Technology = WLAN ax 80 MHz, Operating Frequency = mid, Subband = U-NII-2A (S01_AC01)



18:57:56 09.04.2025

Path A



20:25:57 09.04.2025

Path B

5.4.5 TEST EQUIPMENT USED

- R&S TS8997

5.5 MAXIMUM CONDUCTED OUTPUT POWER

Standard **FCC Part 15 Subpart E**

The test was performed according to:

ANSI C63.10, chapter 12.4.3.2

5.5.1 TEST DESCRIPTION

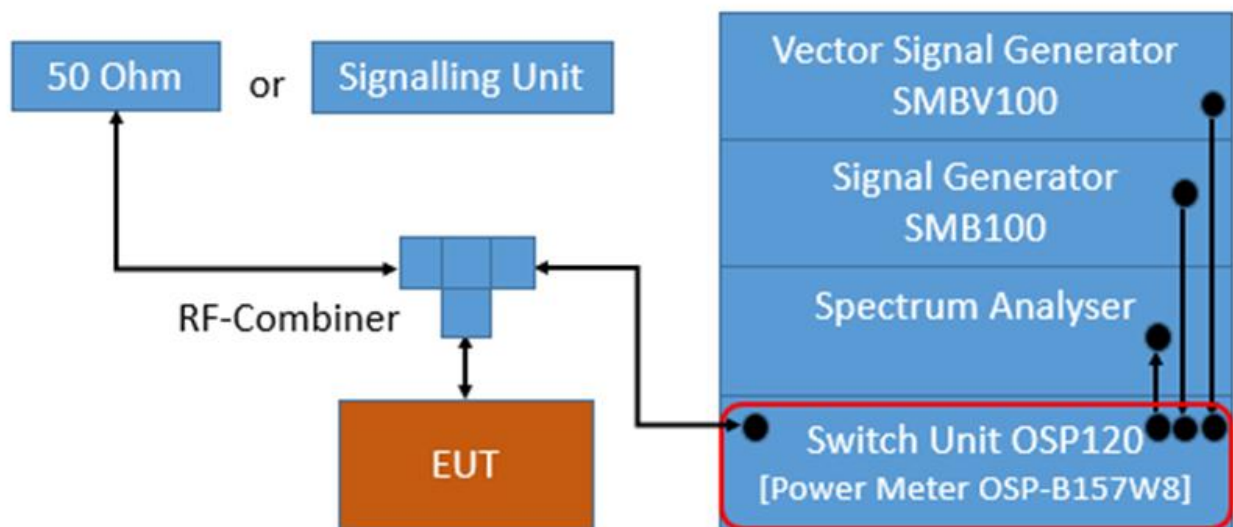
The Equipment Under Test (EUT) was set up to perform the output power measurements. The results recorded were measured with the modulation which produces the worst-case (highest) output power

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.

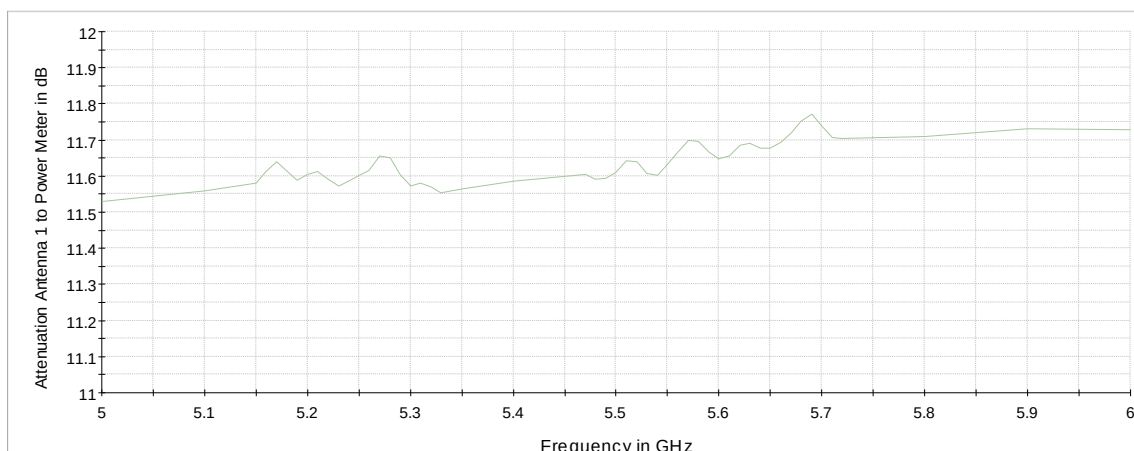
The OSP-B157W is a gated RF average power meter with a signal bandwidth > 300 MHz.

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

5.5.2 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 band:

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.

For an indoor access point operating in the 5.850-5.895 GHz band:

The maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm.

Indoor access points operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 36 dBm.

For client devices operating under the control of an indoor access point in the 5.850-5.895 GHz band:

The maximum e.i.r.p. over the frequency band of operation must not exceed 30 dBm.

Client devices operating on a channel that spans the 5.725-5.850 GHz and 5.850-5.895 GHz bands must not exceed an e.i.r.p. of 30 dBm.

For a subordinate device operating under the control of an indoor access point in the 5.850-5.895 GHz band:

The maximum e.i.r.p. over the frequency band of operation must not exceed 36 dBm.

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, 7.3.1.2, 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. OEM devices installed in vehicles with a maximum e.i.r.p. greater than 15 mW 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.

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

RSS-247, 7.3.2.2, 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. OEM devices installed in vehicles with a maximum e.i.r.p. greater than 15 mW 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.

All other devices:

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.

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.

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, 7.3.3.2, Band 5470-5725 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, 7.3.4.3, Band 5725-5850 MHz:

Limits:

Maximum conducted Power: 1 W (30 dBm)

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

RSS-247, 7.3.5.3, Band 5850-5895 MHz:

Limits:

For fixed outdoor APs, the maximum e.i.r.p. shall not exceed 4 W (36dBm).

The maximum e.i.r.p. measured at any elevation angle greater than 30 degrees above the horizon, shall not exceed 125 mW (21dBm) over the 5850-5895 MHz frequency band.

For fixed outdoor client devices, the maximum e.i.r.p. shall not exceed 1 W (30 dBm)

For indoor APs, the maximum e.i.r.p. shall not exceed 4 W (36 dBm).

For indoor subordinate devices, the maximum e.i.r.p. shall not exceed 4 W (36 dBm).

For indoor client devices, the maximum e.i.r.p. shall not exceed 1 W (30 dBm).

5.5.3 TEST PROTOCOL

Ambient temperature: 20 - 24 °C
 Air Pressure: 985 - 1035 hPa
 Humidity: 31 - 54 %
 WLAN a-Mode; 20 MHz; 6 Mbit/s

U-NII-Subband	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	15.2	20.5	24.0	8.8	30.0	9.5	N/A	-	22.2	1.7
	40	5200	15.2	20.5	24.0	8.8	30.0	9.5	N/A	-	22.2	1.7
	48	5240	15.1	20.4	24.0	8.9	30.0	9.6	N/A	-	22.2	1.8
2A	52	5260	21.1	26.4	24.0	2.9	27.0	0.6	23.2	2.1	27.0	0.6
	60	5300	20.9	26.2	24.0	3.1	27.0	0.8	23.2	2.3	27.0	0.8
	64	5320	19.1	24.4	24.0	4.9	27.0	2.6	23.2	4.1	27.0	2.6
2C	100	5500	17.5	22.8	24.0	6.5	27.0	4.2	23.2	5.7	27.0	4.2
	116	5580	20.5	25.8	24.0	3.5	27.0	1.2	23.2	2.8	27.0	1.2
	140	5700	17.6	22.9	24.0	6.4	27.0	4.1	23.2	5.6	27.0	4.1
2C+3	144	5720	20.5	25.8	22.7	2.2	27.0	1.2	22.2	1.7	27.0	1.2
3	149	5745	20.4	25.7	30.0	9.6	36.0	10.3	30.0	9.6	36.0	10.3
	157	5785	20.3	25.6	30.0	9.7	36.0	10.4	30.0	9.7	36.0	10.4
	165	5825	20.6	25.9	30.0	9.4	36.0	10.1	30.0	9.4	36.0	10.1
3+4	169	5845	19.4	24.7	30.0	10.6	30.0	5.3	30.0	10.6	30.0	5.3
4	173	5865	19.2	24.5	N/A	-	30.0	5.5	N/A	-	30.0	5.5
	177	5885	19.2	24.5	N/A	-	30.0	5.5	N/A	-	30.0	5.5

WLAN n-Mode; 20 MHz; MCS 3; SISO

U-NII-Subband	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	15.5	20.8	24.0	8.5	30.0	9.2	N/A	-	22.5	1.7
	40	5200	15.4	20.7	24.0	8.6	30.0	9.3	N/A	-	22.5	1.7
	48	5240	15.3	20.6	24.0	8.7	30.0	9.4	N/A	-	22.5	1.8
2A	52	5260	21.1	26.4	24.0	2.9	27.0	0.6	23.5	2.4	27.0	0.6
	60	5300	20.3	25.6	24.0	3.7	27.0	1.4	23.5	3.2	27.0	1.4
	64	5320	17.4	22.7	24.0	6.6	27.0	4.3	23.5	6.0	27.0	4.3
2C	100	5500	15.8	21.1	24.0	8.2	27.0	5.9	23.5	7.7	27.0	5.9
	116	5580	20.5	25.8	24.0	3.5	27.0	1.2	23.5	3.0	27.0	1.2
	140	5700	14.7	20.0	24.0	9.3	27.0	7.0	23.5	8.7	27.0	7.0
2C+3	144	5720	20.6	25.9	22.9	2.3	27.0	1.1	22.4	1.8	27.0	1.1
3	149	5745	20.4	25.7	30.0	9.6	36.0	10.3	30.0	9.6	36.0	10.3
	157	5785	20.3	25.6	30.0	9.7	36.0	10.4	30.0	9.7	36.0	10.4
	165	5825	20.6	25.9	30.0	9.4	36.0	10.1	30.0	9.4	36.0	10.1
3+4	169	5845	19.4	24.7	30.0	10.6	30.0	5.3	30.0	10.6	30.0	5.3
4	173	5865	19.3	24.6	N/A	-	30.0	5.4	N/A	-	30.0	5.4
	177	5885	19.3	24.6	N/A	-	30.0	5.4	N/A	-	30.0	5.4

WLAN n-Mode; 40 MHz; MCS 3; SISO

U-NII-Subband	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	38	5190	15.4	20.7	24.0	8.6	30.0	9.3	N/A	-	23.0	2.3
	46	5230	15.3	20.6	24.0	8.7	30.0	9.4	N/A	-	23.0	2.4
2A	54	5270	19.4	24.7	24.0	4.6	27.0	2.3	24.0	4.6	27.0	2.3
	62	5310	15.4	20.7	24.0	8.6	27.0	6.3	24.0	8.6	27.0	6.3
2C	102	5510	14.8	20.1	24.0	9.2	27.0	6.9	24.0	9.2	27.0	6.9
	110	5550	17.9	23.2	24.0	6.1	27.0	3.8	24.0	6.1	27.0	3.8
	134	5670	16.0	21.3	24.0	8.0	27.0	5.7	24.0	8.0	27.0	5.7
2C+3	142	5710	19.8	25.1	24.0	4.2	27.0	1.9	24.0	4.2	27.0	1.9
	3	151	5755	19.6	24.9	30.0	10.4	36.0	11.1	10.4	36.0	11.1
3+4	159	5795	19.5	24.8	30.0	10.5	36.0	11.2	30.0	10.5	36.0	11.2
	167	5835	19.8	25.1	30.0	10.2	30.0	4.9	30.0	0.0	30.0	4.9
4	175	5875	19.6	24.9	N/A	-	30.0	5.1	N/A	-	30.0	5.1

WLAN ac-Mode; 20 MHz; MCS 3; SISO

U-NII-Subband	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	15.5	20.8	24.0	8.5	30.0	9.2	N/A	-	22.5	1.6
	40	5200	15.5	20.8	24.0	8.5	30.0	9.2	N/A	-	22.5	1.6
	48	5240	15.5	20.8	24.0	8.5	30.0	9.2	N/A	-	22.5	1.7
2A	52	5260	21.3	26.6	24.0	2.7	27.0	0.4	23.5	2.2	27.0	0.4
	60	5300	20.3	25.6	24.0	3.7	27.0	1.4	23.5	3.2	27.0	1.4
	64	5320	17.4	22.7	24.0	6.6	27.0	4.3	23.5	6.0	27.0	4.3
2C	100	5500	15.8	21.1	24.0	8.2	27.0	5.9	23.5	7.7	27.0	5.9
	116	5580	20.7	26.0	24.0	3.3	27.0	1.0	23.5	2.8	27.0	1.0
	140	5700	14.8	20.1	24.0	9.2	27.0	6.9	23.5	8.7	27.0	6.9
2C+3	144	5720	20.7	26.0	22.9	2.2	27.0	1.0	22.4	1.7	27.0	1.0
3	149	5745	20.5	25.8	30.0	9.5	36.0	10.2	30.0	9.5	36.0	10.2
	157	5785	20.5	25.8	30.0	9.5	36.0	10.2	30.0	9.5	36.0	10.2
	165	5825	20.7	26.0	30.0	9.3	36.0	10.0	30.0	9.3	36.0	10.0
3+4	169	5845	19.4	24.7	30.0	10.6	30.0	5.3	30.0	10.6	30.0	5.3
4	173	5865	19.3	24.6	N/A	-	30.0	5.4	N/A	-	30.0	5.4
	177	5885	19.3	24.6	N/A	-	30.0	5.4	N/A	-	30.0	5.4

WLAN ac-Mode; 40 MHz; MCS 3; SISO

U-NII-Subband	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	38	5190	15.5	20.8	24.0	8.5	30.0	9.2	N/A	-	23.0	2.2
	46	5230	15.5	20.8	24.0	8.5	30.0	9.2	N/A	-	23.0	2.2
2A	54	5270	19.5	24.8	24.0	4.5	27.0	2.2	24.0	4.5	27.0	2.2
	62	5310	15.4	20.7	24.0	8.6	27.0	6.3	24.0	8.6	27.0	6.3
2C	102	5510	13.8	19.1	24.0	10.2	27.0	7.9	24.0	10.2	27.0	7.9
	110	5550	17.8	23.1	24.0	6.2	27.0	3.9	24.0	6.2	27.0	3.9
	134	5670	15.9	21.2	24.0	8.1	27.0	5.8	24.0	8.1	27.0	5.8
2C+3	142	5710	19.9	25.2	24.0	4.1	27.0	1.8	24.0	4.1	27.0	1.8
3	151	5755	19.7	25.0	30.0	10.3	36.0	11.0	30.0	10.3	36.0	11.0
	159	5795	19.5	24.8	30.0	10.5	36.0	11.2	30.0	10.5	36.0	11.2
3+4	167	5835	19.9	25.2	30.0	10.1	30.0	4.8	30.0	10.1	30.0	4.8
4	175	5875	19.6	24.9	N/A	-	30.0	5.1	N/A	-	30.0	5.1

WLAN ac-Mode; 80 MHz; MCS 3; SISO

U-NII-Subband	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	42	5210	13.4	18.7	24.0	10.6	30.0	11.3	N/A	-	23.0	4.3
2A	58	5290	14.6	19.9	24.0	9.4	27.0	7.1	24.0	9.4	27.0	7.1
2C	106	5530	10.9	16.2	24.0	13.1	27.0	10.8	24.0	13.1	27.0	10.8
	122	5610	16.9	22.2	24.0	7.1	27.0	4.8	24.0	7.1	27.0	4.8
2C+3	138	5690	19.0	24.3	24.0	5.0	27.0	2.7	24.0	5.0	27.0	2.7
3	155	5775	15.9	21.2	30.0	14.1	36.0	14.8	30.0	14.1	36.0	14.8
3+4	171	5855	18.8	24.1	30.0	11.2	30.0	5.9	30.0	0.0	30.0	5.9

WLAN ax-Mode; 20 MHz; MCS 10; SISO

U-NII-Subband	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	15.5	20.8	24.0	8.5	30.0	9.2	N/A	-	22.7	1.9
	40	5200	15.6	20.9	24.0	8.4	30.0	9.1	N/A	-	22.7	1.9
	48	5240	15.5	20.8	24.0	8.5	30.0	9.2	N/A	-	22.7	1.9
2A	52	5260	21.2	26.5	24.0	2.8	27.0	0.5	23.8	2.5	27.0	0.5
	60	5300	20.2	25.5	24.0	3.8	27.0	1.5	23.7	3.5	27.0	1.5
	64	5320	17.3	22.6	24.0	6.7	27.0	4.4	23.7	6.4	27.0	4.4
2C	100	5500	13.8	19.1	24.0	10.2	27.0	7.9	23.7	10.0	27.0	7.9
	116	5580	20.7	26.0	24.0	3.3	27.0	1.0	23.7	3.1	27.0	1.0
	140	5700	12.8	18.1	24.0	11.2	27.0	8.9	23.7	10.9	27.0	8.9
2C+3	144	5720	20.8	26.1	23.5	2.7	27.0	0.9	22.6	1.8	27.0	0.9
3	149	5745	20.5	25.8	30.0	9.5	36.0	10.2	30.0	9.5	36.0	10.2
	157	5785	20.4	25.7	30.0	9.6	36.0	10.3	30.0	9.6	36.0	10.3
	165	5825	20.7	26.0	30.0	9.3	36.0	10.0	30.0	9.3	36.0	10.0
3+4	169	5845	19.5	24.8	30.0	10.5	30.0	5.2	30.0	10.5	30.0	5.2
4	173	5865	19.4	24.7	N/A	-	30.0	5.3	N/A	-	30.0	5.3
	177	5885	11.1	16.4	N/A	-	30.0	13.6	N/A	-	30.0	13.6

WLAN ax-Mode; 40 MHz; MCS 10; SISO

U-NII-Subband	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	38	5190	15.6	20.9	24.0	8.4	30.0	9.1	N/A	-	23.0	2.1
	46	5230	15.6	20.9	24.0	8.4	30.0	9.1	N/A	-	23.0	2.1
2A	54	5270	19.6	24.9	24.0	4.4	27.0	2.1	24.0	4.4	27.0	2.1
	62	5310	15.4	20.7	24.0	8.6	27.0	6.3	24.0	8.6	27.0	6.3
2C	102	5510	13.8	19.1	24.0	10.2	27.0	7.9	24.0	10.2	27.0	7.9
	110	5550	16.9	22.2	24.0	7.1	27.0	4.8	24.0	7.1	27.0	4.8
	134	5670	16.0	21.3	24.0	8.0	27.0	5.7	24.0	8.0	27.0	5.7
2C+3	142	5710	20.0	25.3	24.0	4.0	27.0	1.7	24.0	4.0	27.0	1.7
3	151	5755	18.7	24.0	30.0	11.3	36.0	12.0	30.0	11.3	36.0	12.0
	159	5795	19.6	24.9	30.0	10.4	36.0	11.1	30.0	10.4	36.0	11.1
3+4	167	5835	19.9	25.2	30.0	10.1	30.0	4.8	30.0	10.1	30.0	4.8
4	175	5875	19.7	25.0	N/A	-	30.0	5.0	N/A	-	30.0	5.0

WLAN ax-Mode; 80 MHz; MCS 10; SISO

U-NII-Subband	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	42	5210	13.6	18.9	24.0	10.4	30.0	11.1	N/A	-	23.0	4.1
2A	58	5290	14.8	20.1	24.0	9.2	27.0	6.9	24.0	9.2	27.0	6.9
2C	106	5530	13.0	18.3	24.0	11.0	27.0	8.7	24.0	11.0	27.0	8.7
	122	5610	17.2	22.5	24.0	6.8	27.0	4.5	24.0	6.8	27.0	4.5
2C+3	138	5690	19.2	24.5	24.0	4.8	27.0	2.5	24.0	4.8	27.0	2.5
3	155	5775	16.0	21.3	30.0	14.0	36.0	14.7	30.0	14.0	36.0	14.7
3+4	171	5855	17.1	22.4	30.0	12.9	30.0	7.6	30.0	12.9	30.0	7.6

Remark: Power Meter measurement, no plots provided.

5.5.4 TEST EQUIPMENT USED

- R&S TS8997

5.6 PEAK POWER SPECTRAL DENSITY

Standard **FCC Part 15 Subpart E**

The test was performed according to:

ANSI C63.10, chapter 12.6 (SA-1)

5.6.1 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.

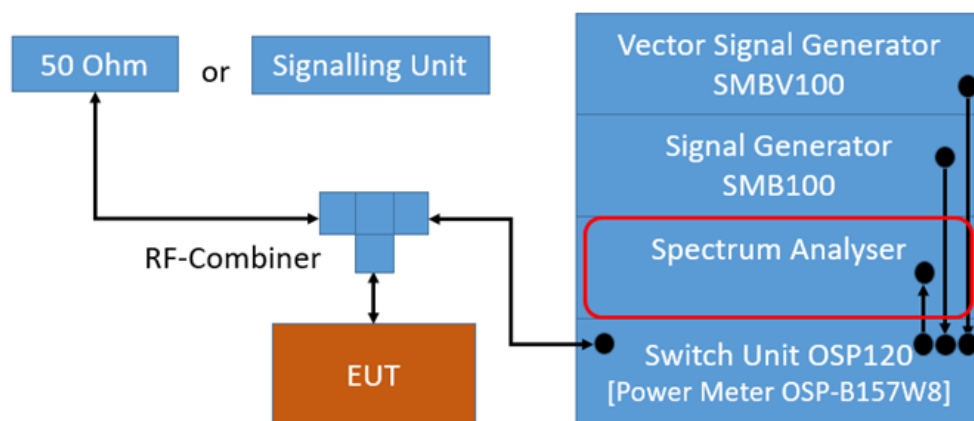
The EUT was connected to the test system as described in the block diagram below. The complete attenuation of the measurement path is known and considered.

Analyzer settings:

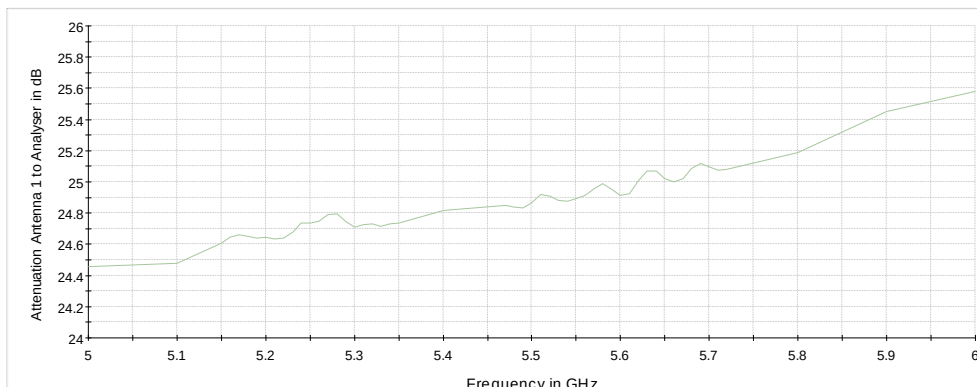
- Resolution Bandwidth (RBW): 1 MHz (for subband 3: 500 kHz)
- Video Bandwidth (VBW): 3 MHz (for subband 3: 2 MHz)
- Trace: Average (Power)
- Sweeps: see plots
- Sweptime: Auto
- Detector: RMS
- Trigger: free run

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

5.6.2 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.

For an indoor access point operating in the 5.850-5.895 GHz band:

The maximum power spectral density must not exceed 20 dBm e.i.r.p. in any 1-megahertz band.

For client devices operating under the control of an indoor access point in the 5.850-5.895 GHz band:

The maximum power spectral density must not exceed 14 dBm e.i.r.p. in any 1-megahertz band

For a subordinate device operating under the control of an indoor access point in the 5.850-5.895 GHz band:

The maximum power spectral density must not exceed 20 dBm e.i.r.p in any 1-megahertz band

B) IC

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

RSS-247, 7.3.1.2, Band 5150-5250 MHz, indoor operation only:

Devices other than OEM devices installed in vehicles limit (e.i.r.p.): 10 dBm/MHz.

RSS-247, 7.3.2.2, Band 5250-5350 MHz:

Devices other than OEM devices installed in vehicles limit: 11 dBm/MHz.

RSS-247, 7.3.3.2, Bands 5470-5725 MHz:

Limit: 11 dBm/MHz.

RSS-247, 7.3.4.3, Band 5725-5850 MHz:

Limit: 30 dBm/500 kHz.

RSS-247, 7.3.5.3, Band 5850-5895 MHz:

Limit:

For fixed outdoor APs: e.i.r.p. shall not exceed 23 dBm/MHz.

For fixed outdoor client devices: e.i.r.p. shall not exceed 17 dBm/MHz.

For indoor Aps: e.i.r.p. shall not exceed 20 dBm/MHz.

For indoor subordinate devices: e.i.r.p. shall not exceed 20 dBm/MHz.

For indoor client devices: e.i.r.p. shall not exceed 14 dBm/MHz.

5.6.3 TEST PROTOCOL

Ambient temperature: 20 - 24 °C
 Air Pressure: 985 - 1035 hPa
 Humidity: 31 - 54 %
 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	3.6	8.9	11.0	7.4	N/A	-	10.0	1.1
	40	5200	3.6	8.9	11.0	7.4	N/A	-	10.0	1.1
	48	5240	3.5	8.8	11.0	7.5	N/A	-	10.0	1.2
2A	52	5260	9.6	14.9	11.0	1.4	11.0	1.4	N/A	-
	60	5300	9.4	14.7	11.0	1.6	11.0	1.6	N/A	-
	64	5320	7.6	12.9	11.0	3.4	11.0	3.4	N/A	-
2C	100	5500	6.3	11.6	11.0	4.7	11.0	4.7	N/A	-
	116	5580	9.2	14.5	11.0	1.8	11.0	1.8	N/A	-
	140	5700	6.1	11.4	11.0	4.9	11.0	4.9	N/A	-
2C+3	144	5720	9.2	14.5	11.0	1.8	11.0	1.8	N/A	-
3	149	5745	6.1	11.4	30.0	23.9	30.0	23.9	N/A	-
	157	5785	6.3	11.6	30.0	23.7	30.0	23.7	N/A	-
	165	5825	6.8	12.1	30.0	23.2	30.0	23.2	N/A	-
3+4	169	5845	8.0	13.3	14 (E.I.R.P)	0.7	30.0	22.0	14	0.7
4	173	5865	7.9	13.2	14 (E.I.R.P)	0.8	N/A	-	14	0.8
	177	5885	7.9	13.2	14 (E.I.R.P)	0.8	N/A	-	14	0.8

WLAN n-Mode; 20 MHz; MCS 3; 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] (U-NII-3)	Margin [dB]	ISED Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED E.I.R.P limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]
1	36	5180	4.0	9.3	11.0	7.0	N/A	-	10.0	0.7
	40	5200	4.2	9.5	11.0	6.8	N/A	-	10.0	0.5
	48	5240	4.0	9.3	11.0	7.0	N/A	-	10.0	0.7
2A	52	5260	9.7	15.0	11.0	1.3	11.0	1.3	N/A	-
	60	5300	8.7	14.0	11.0	2.3	11.0	2.3	N/A	-
	64	5320	5.9	11.2	11.0	5.1	11.0	5.1	N/A	-
2C	100	5500	4.4	9.7	11.0	6.6	11.0	6.6	N/A	-
	116	5580	9.4	14.7	11.0	1.6	11.0	1.6	N/A	-
	140	5700	3.3	8.6	11.0	7.7	11.0	7.7	N/A	-
2C+3	144	5720	9.2	14.5	11.0	1.8	11.0	1.8	N/A	-
3	149	5745	6.1	11.4	30.0	23.9	30.0	23.9	N/A	-
	157	5785	6.1	11.4	30.0	23.9	30.0	23.9	N/A	-
	165	5825	6.4	11.7	30.0	23.6	30.0	23.6	N/A	-
3+4	169	5845	8.1	13.4	14 (E.I.R.P)	0.6	30.0	21.9	14	0.6
4	173	5865	8.0	13.3	14 (E.I.R.P)	0.7	N/A	-	14	0.7
	177	5885	8.0	13.3	14 (E.I.R.P)	0.7	N/A	-	14	0.7

WLAN n-Mode; 40 MHz; MCS 3; SISO

U-NII-Band	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	E.I.R.P MPSPD [dBm/MHz]	FCC Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED E.I.R.P limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]
1	38	5190	1.0	6.3	11.0	10.0	N/A	-	10.0	3.7
	46	5230	1.1	6.4	11.0	9.9	N/A	-	10.0	3.6
2A	54	5270	4.8	10.1	11.0	6.2	11.0	6.2	N/A	-
	62	5310	0.8	6.1	11.0	10.2	11.0	10.2	N/A	-
2C	102	5510	0.5	5.8	11.0	10.5	11.0	10.5	N/A	-
	110	5550	3.6	8.9	11.0	7.4	11.0	7.4	N/A	-
	134	5670	1.4	6.7	11.0	9.6	11.0	9.6	N/A	-
	142	5710	5.5	10.8	11.0	5.5	11.0	5.5	N/A	-
3	151	5755	2.3	7.6	30.0	27.7	30.0	27.7	N/A	-
	159	5795	2.3	7.6	30.0	27.7	30.0	27.7	N/A	-
3+4	167	5835	5.6	10.9	14 (E.I.R.P)	3.1	30.0	24.4	14	3.1
4	175	5875	5.4	10.7	14 (E.I.R.P)	3.3	N/A	-	14	3.3

WLAN ac-Mode; 20 MHz; MCS 3; SISO

U-NII-Band	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	E.I.R.P MPSPD [dBm/MHz]	FCC Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED E.I.R.P limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]
1	36	5180	4.0	9.3	11.0	7.0	N/A	-	10.0	0.7
	40	5200	4.0	9.3	11.0	7.0	N/A	-	10.0	0.7
	48	5240	3.9	9.2	11.0	7.1	N/A	-	10.0	0.8
2A	52	5260	9.6	14.9	11.0	1.4	11.0	1.4	N/A	-
	60	5300	8.7	14.0	11.0	2.3	11.0	2.3	N/A	-
	64	5320	5.8	11.1	11.0	5.2	11.0	5.2	N/A	-
2C	100	5500	4.5	9.8	11.0	6.5	11.0	6.5	N/A	-
	116	5580	9.3	14.6	11.0	1.7	11.0	1.7	N/A	-
	140	5700	3.3	8.6	11.0	7.7	11.0	7.7	N/A	-
2C+3	144	5720	9.3	14.6	11.0	1.7	11.0	1.7	N/A	-
3	149	5745	6.1	11.4	30.0	23.9	30.0	23.9	N/A	-
	157	5785	5.9	11.2	30.0	24.1	30.0	24.1	N/A	-
	165	5825	6.3	11.6	30.0	23.7	30.0	23.7	N/A	-
3+4	169	5845	8.0	13.3	14 (E.I.R.P)	0.7	30.0	22.0	14	0.7
4	173	5865	8.0	13.3	14 (E.I.R.P)	0.7	N/A	-	14	0.7
	177	5885	8.1	13.4	14 (E.I.R.P)	0.6	N/A	-	14	0.6

WLAN ac-Mode; 40 MHz; MCS 3; SISO

U-NII-Band	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	E.I.R.P MPSPD [dBm/MHz]	FCC Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED E.I.R.P limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]
1	38	5190	0.9	6.2	11.0	10.1	N/A	-	10.0	3.8
	46	5230	1.0	6.3	11.0	10.0	N/A	-	10.0	3.7
2A	54	5270	4.9	10.2	11.0	6.1	11.0	6.1	N/A	-
	62	5310	0.8	6.1	11.0	10.2	11.0	10.2	N/A	-
2C	102	5510	-0.6	4.7	11.0	11.6	11.0	11.6	N/A	-
	110	5550	3.6	8.9	11.0	7.4	11.0	7.4	N/A	-
	134	5670	1.4	6.7	11.0	9.6	11.0	9.6	N/A	-
	142	5710	5.3	10.6	11.0	5.7	11.0	5.7	N/A	-
3	151	5755	2.3	7.6	30.0	27.7	30.0	27.7	N/A	-
	159	5795	2.0	7.3	30.0	28.0	30.0	28.0	N/A	-
3+4	167	5835	5.4	10.7	14 (E.I.R.P)	3.3	30.0	24.6	14	3.3
4	175	5875	5.5	10.8	14 (E.I.R.P)	3.2	N/A	-	14	3.2

WLAN ac-Mode; 80 MHz; MCS 3; SISO

U-NII-Band	Ch. No.	Freq. [MHz]	MPD [dBm/MHz]	E.I.R.P MPD [dBm/MHz]	FCC Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED E.I.R.P limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]
1	42	5210	-4.9	0.4	11.0	15.9	N/A	-	10.0	9.6
2A	58	5290	-3.8	1.5	11.0	14.8	11.0	14.8	N/A	-
2C	106	5530	-7.2	-1.9	11.0	18.2	11.0	18.2	N/A	-
	122	5610	-1.2	4.1	11.0	12.2	11.0	12.2	N/A	-
2C+3	138	5690	0.8	6.1	11.0	10.2	11.0	10.2	N/A	-
3	155	5775	-5.3	0.0	30.0	35.3	30.0	35.3	N/A	-
3+4	7	5985	0.7	6.0	14 (E.I.R.P)	8.0	30.0	29.3	14	8.0

WLAN ax-Mode; 20 MHz; MCS 10; SISO

U-NII-Band	Ch. No.	Freq. [MHz]	MPD [dBm/MHz]	E.I.R.P MPD [dBm/MHz]	FCC Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED E.I.R.P limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]
1	36	5180	4.3	9.6	11.0	6.7	N/A	-	10.0	0.4
	40	5200	4.1	9.4	11.0	6.9	N/A	-	10.0	0.6
	48	5240	4.1	9.4	11.0	6.9	N/A	-	10.0	0.6
2A	52	5260	9.8	15.1	11.0	1.2	11.0	1.2	N/A	-
	60	5300	8.8	14.1	11.0	2.2	11.0	2.2	N/A	-
	64	5320	5.9	11.2	11.0	5.1	11.0	5.1	N/A	-
2C	100	5500	2.5	7.8	11.0	8.5	11.0	8.5	N/A	-
	116	5580	9.3	14.6	11.0	1.7	11.0	1.7	N/A	-
	140	5700	1.3	6.6	11.0	9.7	11.0	9.7	N/A	-
2C+3	144	5720	9.2	14.5	11.0	1.8	11.0	1.8	N/A	-
3	149	5745	6.1	11.4	30.0	23.9	30.0	23.9	N/A	-
	157	5785	6.0	11.3	30.0	24.0	30.0	24.0	N/A	-
	165	5825	6.4	11.7	30.0	23.6	30.0	23.6	N/A	-
3+4	169	5845	7.9	13.2	14 (E.I.R.P)	0.8	30.0	22.1	14	0.8
4	173	5865	7.8	13.1	14 (E.I.R.P)	0.9	N/A	-	14	0.9
	177	5885	-0.3	5.0	14 (E.I.R.P)	9.0	N/A	-	14	9.0

WLAN ax-Mode; 40 MHz; MCS 10; SISO

U-NII-Band	Ch. No.	Freq. [MHz]	MPD [dBm/MHz]	E.I.R.P MPD [dBm/MHz]	FCC Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED E.I.R.P limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]
1	38	5190	1.1	6.4	11.0	9.9	N/A	-	10.0	3.6
	46	5230	1.2	6.5	11.0	9.8	N/A	-	10.0	3.5
2A	54	5270	4.9	10.2	11.0	6.1	11.0	6.1	N/A	-
	62	5310	0.8	6.1	11.0	10.2	11.0	10.2	N/A	-
2C	102	5510	-0.5	4.8	11.0	11.5	11.0	11.5	N/A	-
	110	5550	2.6	7.9	11.0	8.4	11.0	8.4	N/A	-
	134	5670	1.5	6.8	11.0	9.5	11.0	9.5	N/A	-
2C+3	142	5710	5.5	10.8	11.0	5.5	11.0	5.5	N/A	-
3	151	5755	1.3	6.6	30.0	28.7	30.0	28.7	N/A	-
	159	5795	2.4	7.7	30.0	27.6	30.0	27.6	N/A	-
3+4	167	5835	5.5	10.8	14 (E.I.R.P)	3.2	30.0	24.5	14	3.2
4	175	5875	5.5	10.8	14 (E.I.R.P)	3.2	N/A	-	14	3.2

WLAN ax-Mode; 80 MHz; MCS 10; SISO

U-NII-Band	Ch. No.	Freq. [MHz]	MPD [dBm/MHz]	E.I.R.P MPD [dBm/MHz]	FCC Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED E.I.R.P limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]
1	42	5210	-4.0	1.3	11.0	15.0	N/A	-	10.0	8.7
2A	58	5290	-2.9	2.4	11.0	13.9	11.0	13.9	N/A	-
2C	106	5530	-4.4	0.9	11.0	15.4	11.0	15.4	N/A	-
	122	5610	-0.2	5.1	11.0	11.2	11.0	11.2	N/A	-
2C+3	138	5690	1.7	7.0	11.0	9.3	11.0	9.3	N/A	-
3	155	5775	-4.3	1.0	30.0	34.3	30.0	34.3	N/A	-
3+4	171	5855	-0.4	4.9	14 (E.I.R.P)	9.1	30.0	30.4	14	9.1

OFDMA

WLAN ax-Mode RU 5; 20 MHz; MCS 10; SISO

U-NII-Band	Ch. No.	Freq. [MHz]	MPD [dBm/MHz]	E.I.R.P MPD [dBm/MHz]	FCC Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED E.I.R.P limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]
1	36	5180	2.7	8.0	11.0	8.3	N/A	-	10.0	2.0
	40	5200	2.6	7.9	11.0	8.4	N/A	-	10.0	2.1
	48	5240	2.7	8.0	11.0	8.3	N/A	-	10.0	2.0
2A	52	5260	5.3	10.6	11.0	5.7	11.0	5.7	N/A	-
	60	5300	5.3	10.6	11.0	5.7	11.0	5.7	N/A	-
	64	5320	5.2	10.5	11.0	5.8	11.0	5.8	N/A	-
2C	100	5500	1.2	6.5	11.0	9.8	11.0	9.8	N/A	-
	116	5580	1.8	7.1	11.0	9.2	11.0	9.2	N/A	-
	140	5700	1.3	6.6	11.0	9.7	11.0	9.7	N/A	-
2C+3	144	5720	1.4	6.7	11.0	9.6	11.0	9.6	N/A	-
3	149	5745	5.2	10.5	30.0	24.8	30.0	24.8	N/A	-
	157	5785	5.1	10.4	30.0	24.9	30.0	24.9	N/A	-
	165	5825	5.8	11.1	30.0	24.2	30.0	24.2	N/A	-
3+4	169	5845	1.4	6.7	14.0 (E.I.R.P)	7.3	N/A	-	14.0	7.3
4	173	5865	1.4	6.7	14.0 (E.I.R.P)	7.3	N/A	-	14.0	7.3
	177	5885	1.4	6.7	14.0 (E.I.R.P)	7.3	N/A	-	14.0	7.3

WLAN ax-Mode RU 6; 40 MHz; MCS 10; SISO

U-NII-Band	Ch. No.	Freq. [MHz]	MPD [dBm/MHz]	E.I.R.P MPD [dBm/MHz]	FCC Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED E.I.R.P limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]
1	38	5190	2.7	8.0	11.0	8.3	N/A	-	10.0	2.0
	46	5230	2.9	8.2	11.0	8.1	N/A	-	10.0	1.8
2A	54	5270	5.3	10.6	11.0	5.7	11.0	5.7	N/A	-
	62	5310	5.3	10.6	11.0	5.7	11.0	5.7	N/A	-
2C	102	5510	1.3	6.6	11.0	9.7	11.0	9.7	N/A	-
	110	5550	1.5	6.8	11.0	9.5	11.0	9.5	N/A	-
	134	5670	1.5	6.8	11.0	9.5	11.0	9.5	N/A	-
2C+3	142	5710	1.5	6.8	11.0	9.5	11.0	9.5	N/A	-
3	151	5755	5.3	10.6	30.0	24.7	30.0	24.7	N/A	-
	159	5795	5.3	10.6	30.0	24.7	30.0	24.7	N/A	-
3+4	167	5835	1.3	6.6	14 (E.I.R.P)	7.4	30.0	28.7	14.0	7.4
4	175	5875	1.4	6.7	14 (E.I.R.P)	7.3	N/A	-	14.0	7.3

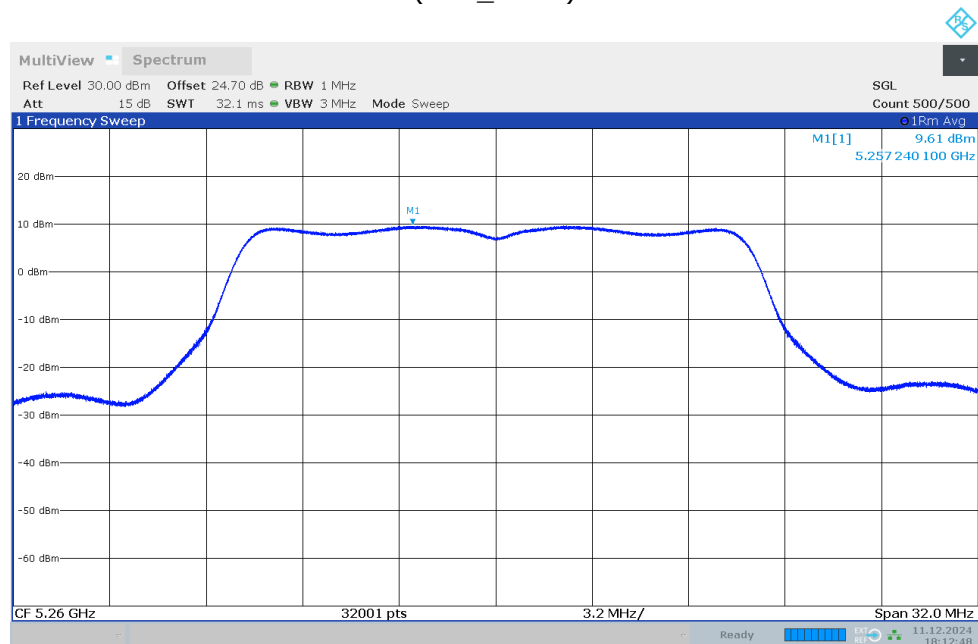
WLAN ax-Mode; 80 MHz RU 6; MCS 10; SISO

U-NII-Band	Ch. No.	Freq. [MHz]	MPSD [dBm/MHz]	E.I.R.P MPSPD [dBm/MHz]	FCC Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED Limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]	ISED E.I.R.P limit [dBm/MHz] or [dBm/500kHz] (U-NII-3)	Margin [dB]
1	42	5210	2.7	8.0	11.0	8.3	N/A	-	10.0	2.0
2A	58	5290	5.4	10.7	11.0	5.6	11.0	5.6	N/A	-
2C	106	5530	1.2	6.5	11.0	9.8	11.0	9.8	N/A	-
	122	5610	1.7	7.0	11.0	9.3	11.0	9.3	N/A	-
2C+3	138	5690	1.7	7.0	11.0	9.3	11.0	9.3	N/A	-
3	155	5775	5.4	10.7	30.0	24.6	30.0	24.6	N/A	-
3+4	171	5855	1.4	6.7	14 (E.I.R.P)	7.3	30.0	28.6	14.0	7.3

Remark: Tables values given in the table are Path A or Path B, depending on which value is higher.
Please see next sub-clause for the measurement plot.

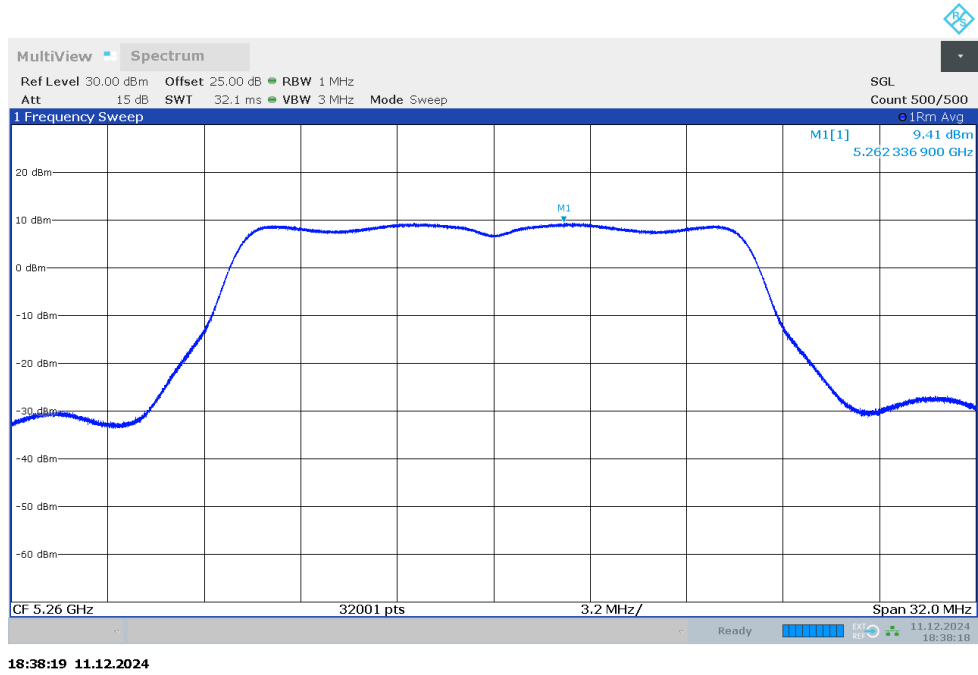
5.6.4 MEASUREMENT PLOT (EXAMPLE PLOT, SHOWING WORST CASE, IF APPLICABLE)

Radio Technology = WLAN a, Operating Frequency = low, Subband = U-NII-2A (S01_AC01)



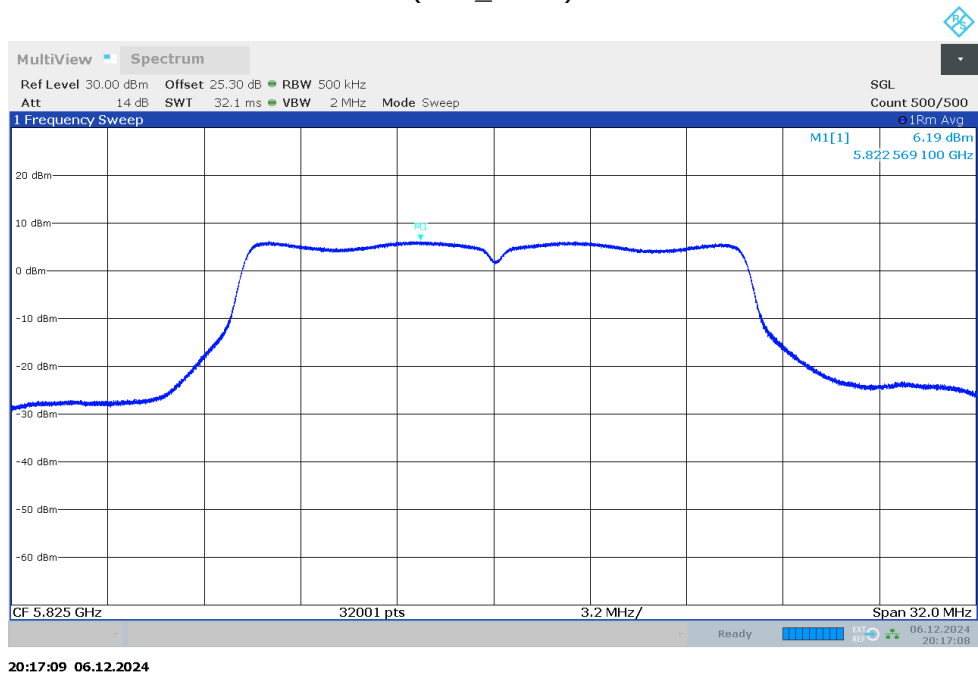
18:12:48 11.12.2024

Path A

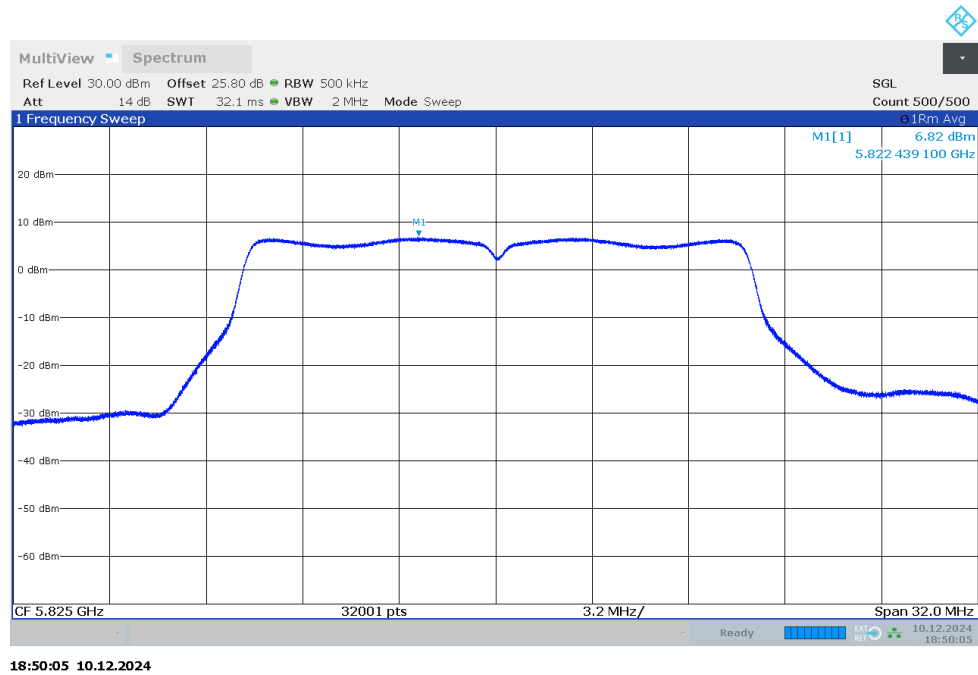


Path B

Radio Technology = WLAN a, Operating Frequency = high, Subband = U-NII-3 (S01_AC01)

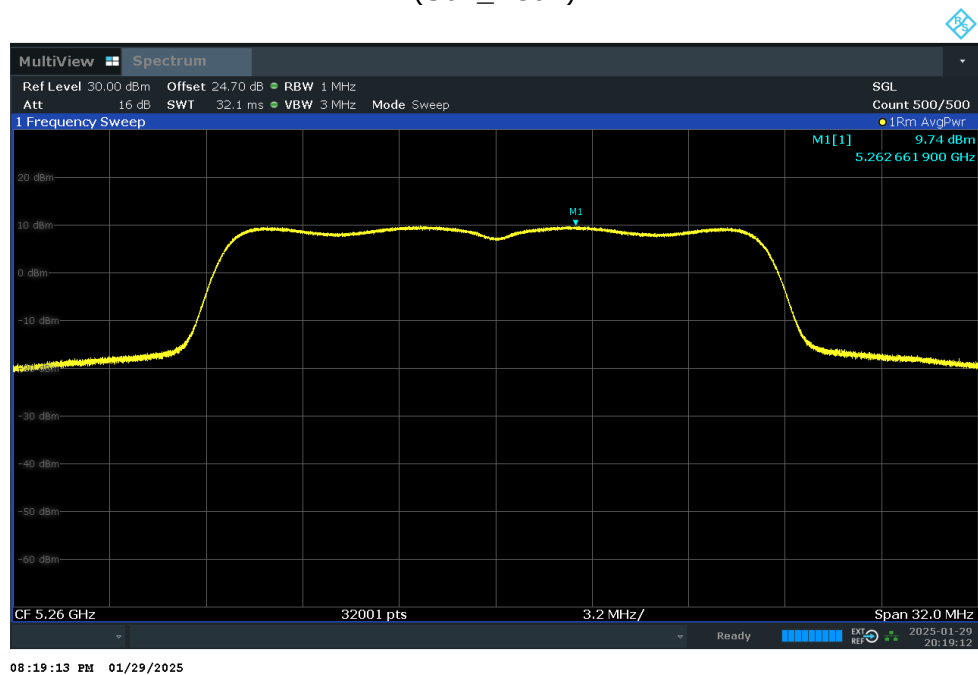


Path A

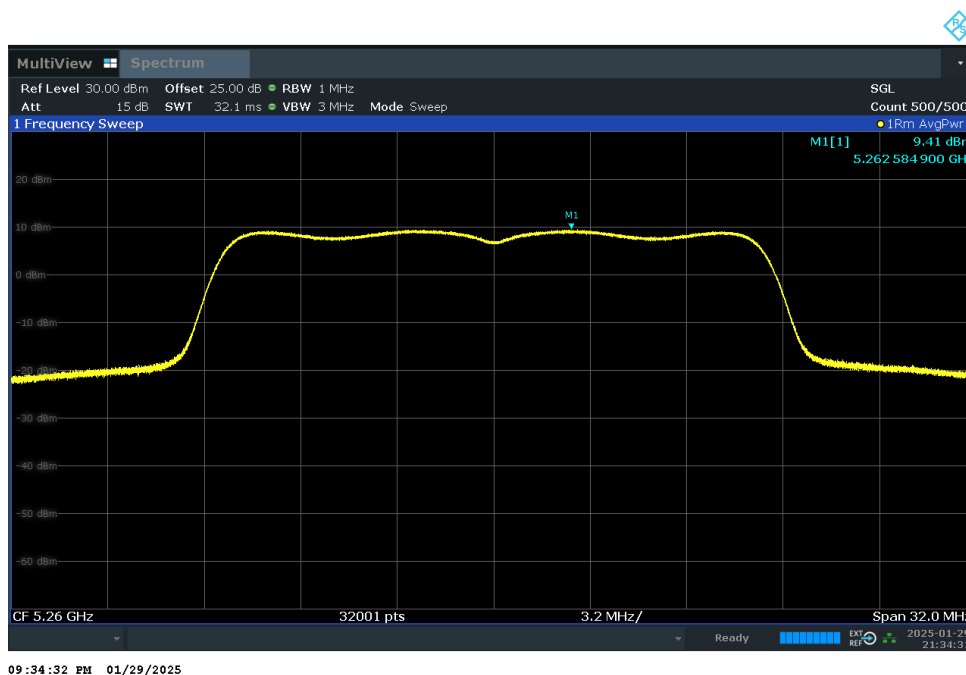


Path B

Radio Technology = WLAN n 20 MHz, Operating Frequency = low, Subband = U-NII-2A (S01_AC01)

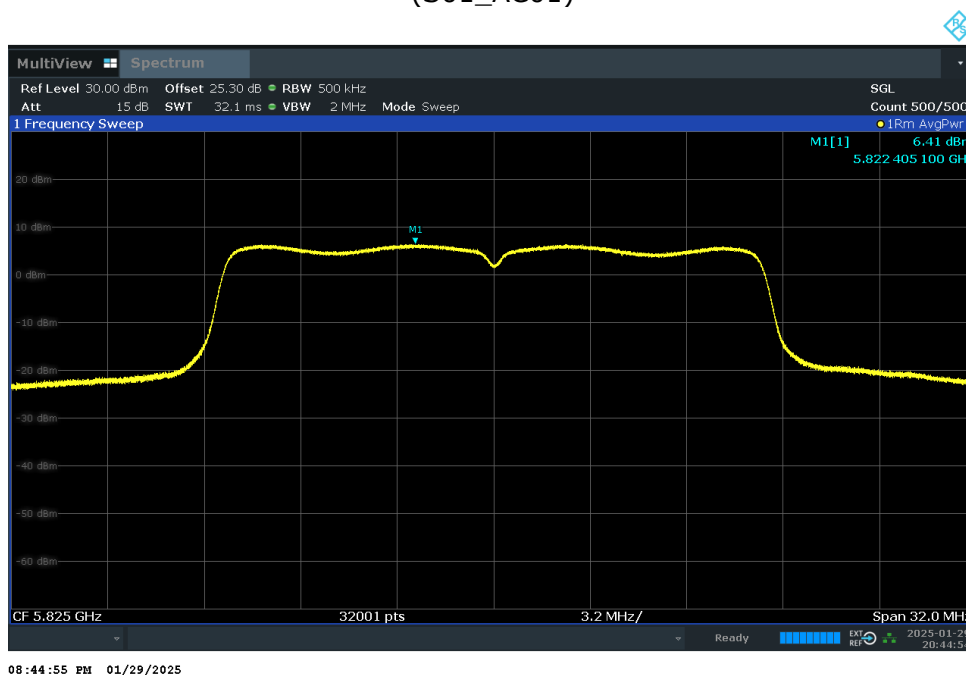


Path A

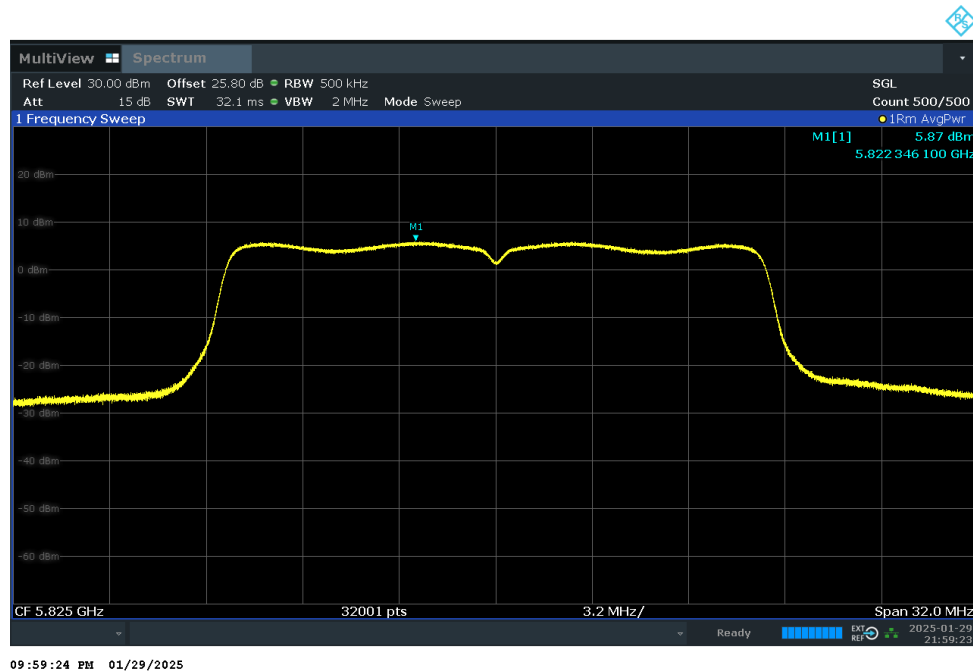


Path B

Radio Technology = WLAN n 20 MHz, Operating Frequency = high, Subband = U-NII-3 (S01_AC01)

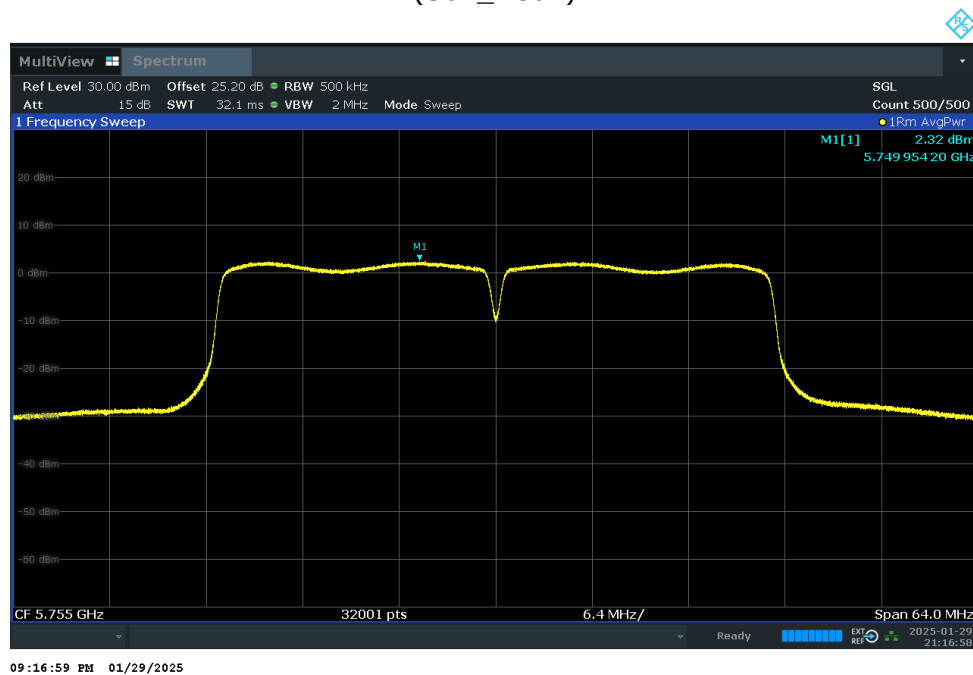


Path A

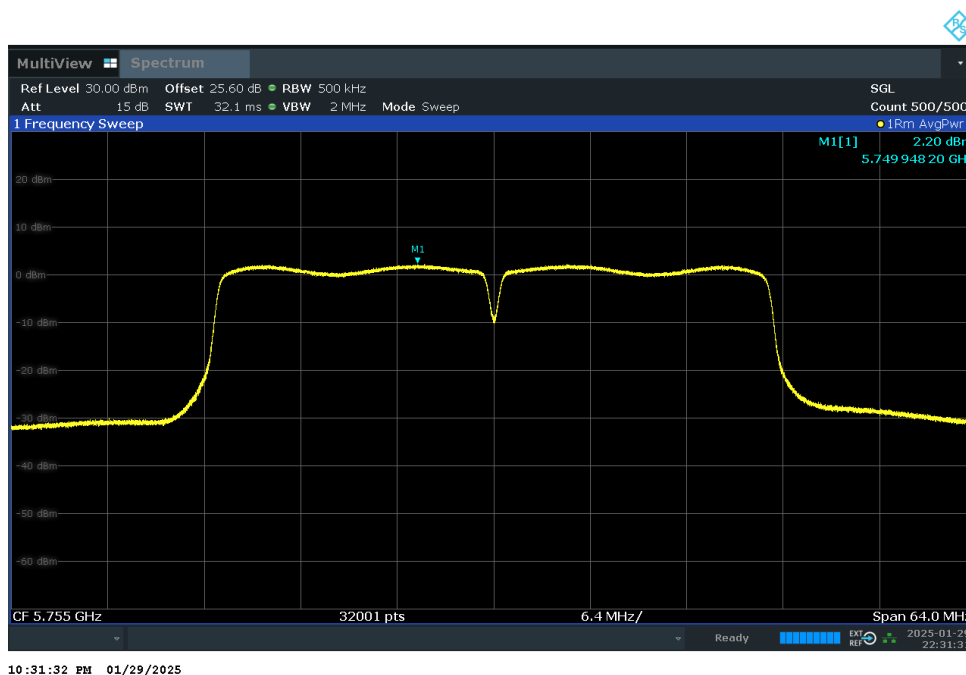


Path B

Radio Technology = WLAN n 40 MHz, Operating Frequency = low, Subband = U-NII-3 (S01_AC01)



Path A

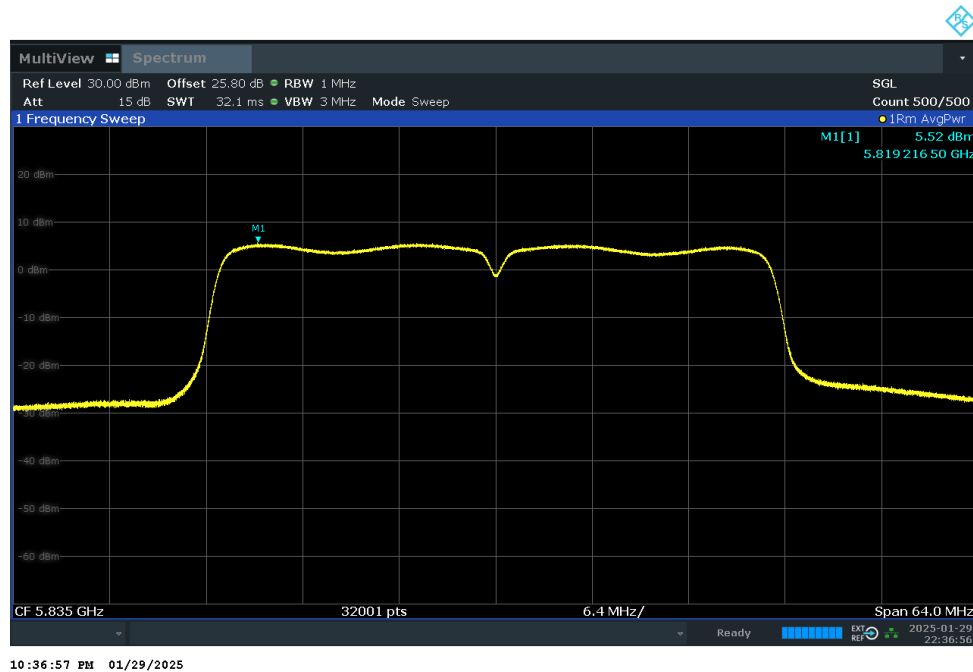


Path B

Radio Technology = WLAN n 40 MHz, Operating Frequency = straddle, Subband = U-NII-3 + U-NII-4 (S01_AC01)

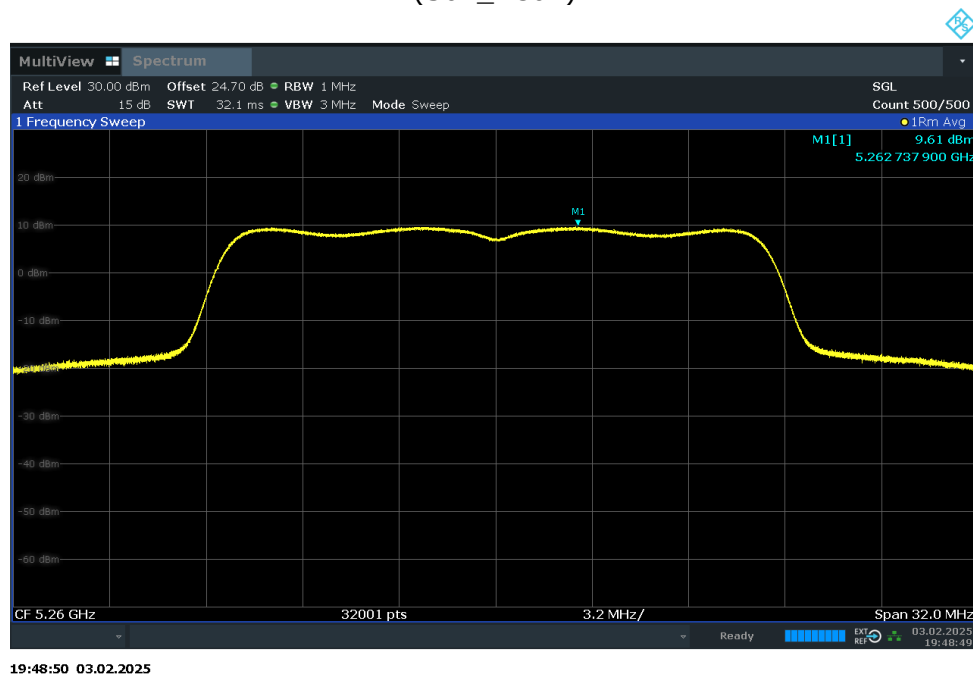


Path A

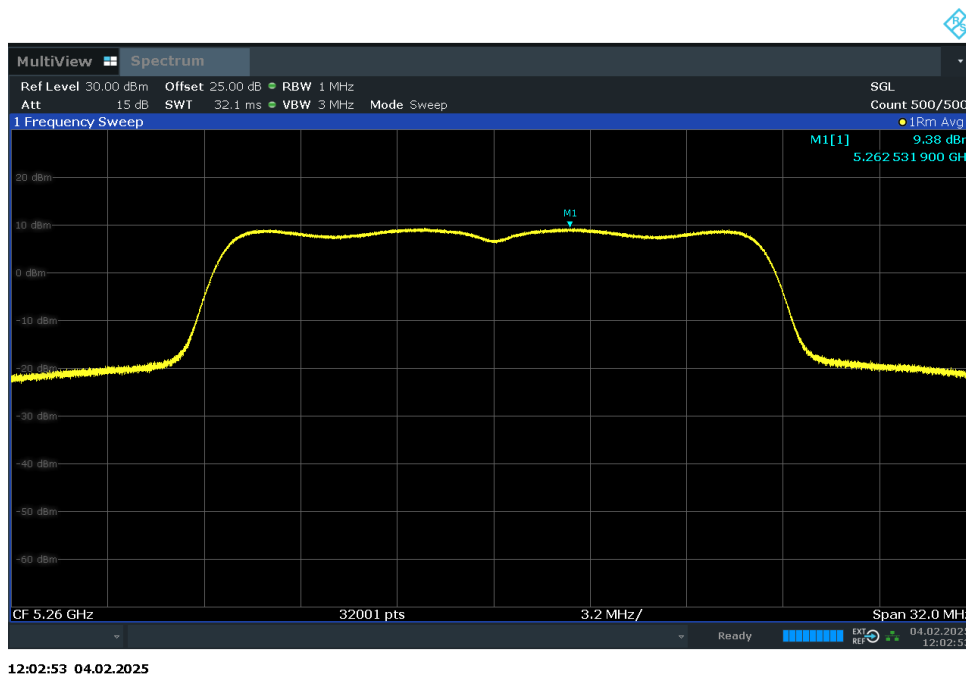


Path B

Radio Technology = WLAN ac 20 MHz, Operating Frequency = low, Subband = U-NII-2A (S01_AC01)

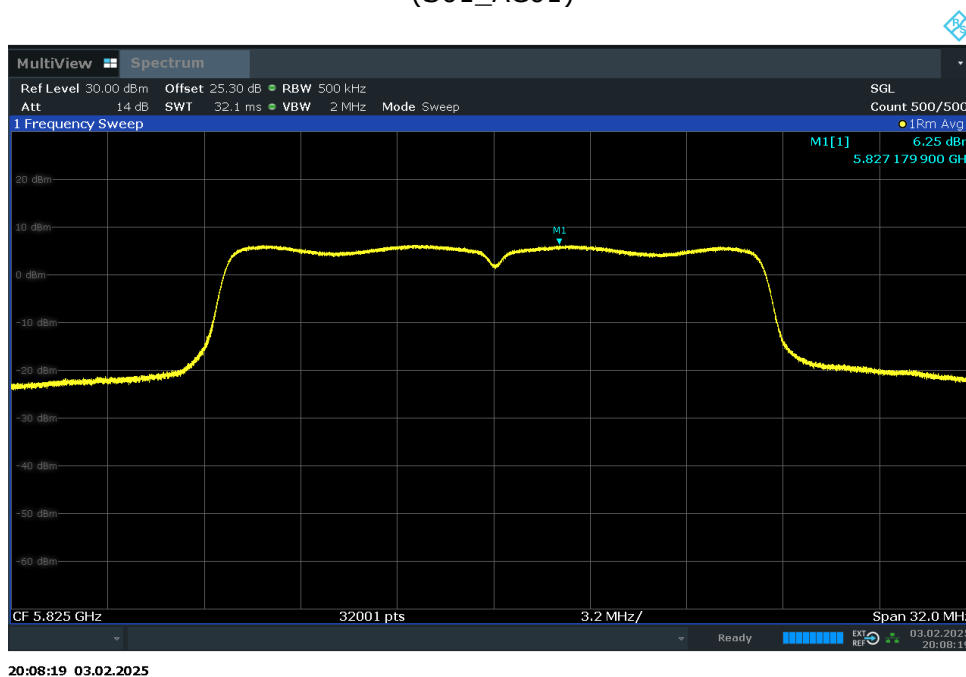


Path A

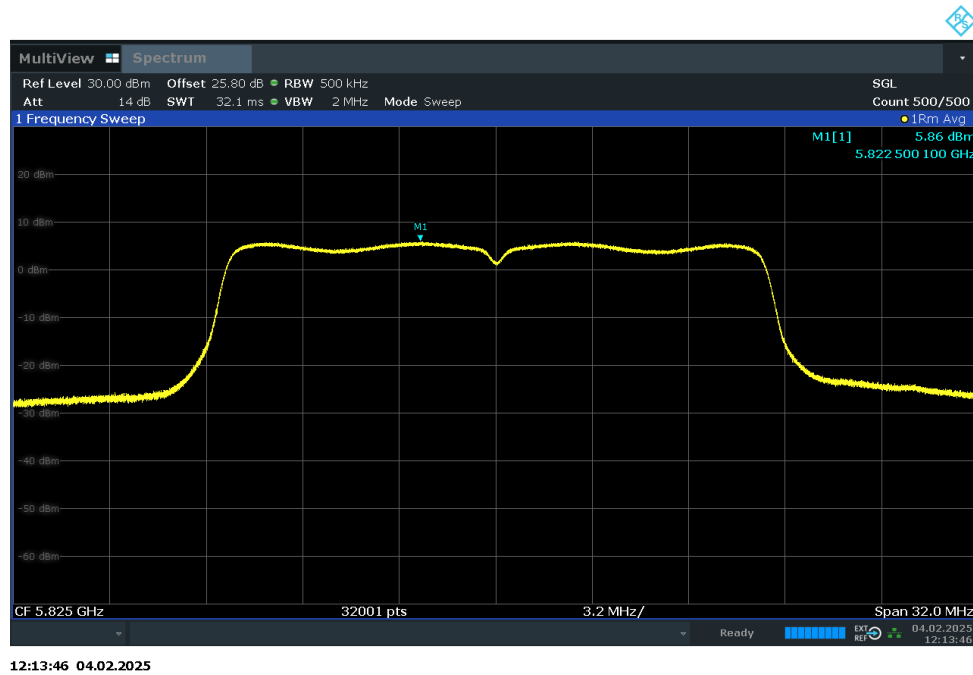


Path B

Radio Technology = WLAN ac 20 MHz, Operating Frequency = high, Subband = U-NII-3 (S01_AC01)

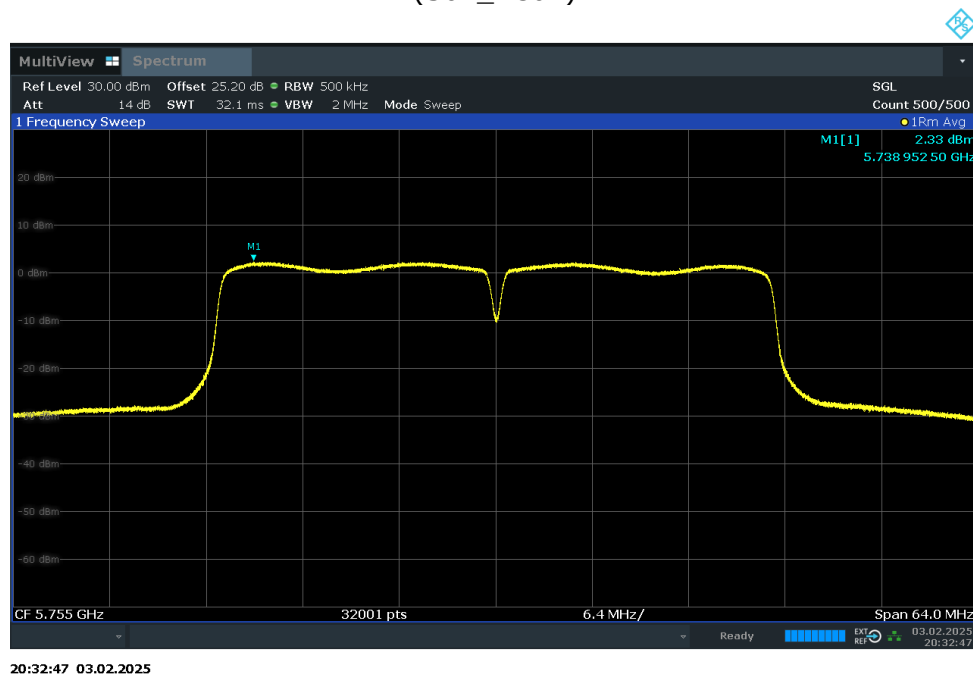


Path A

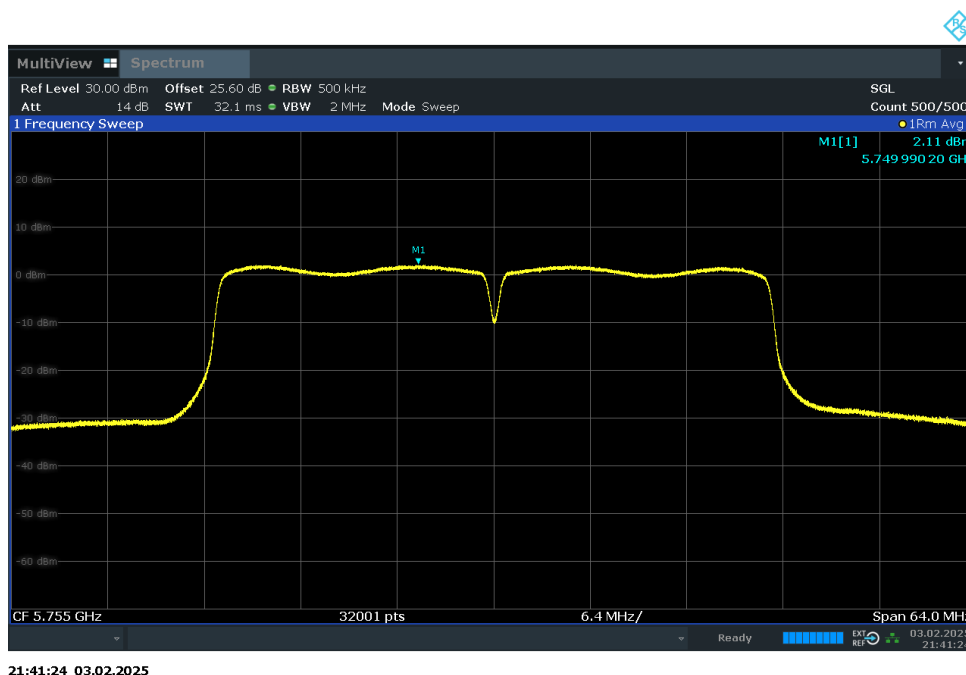


Path B

Radio Technology = WLAN ac 40 MHz, Operating Frequency = low, Subband = U-NII-3 (S01_AC01)

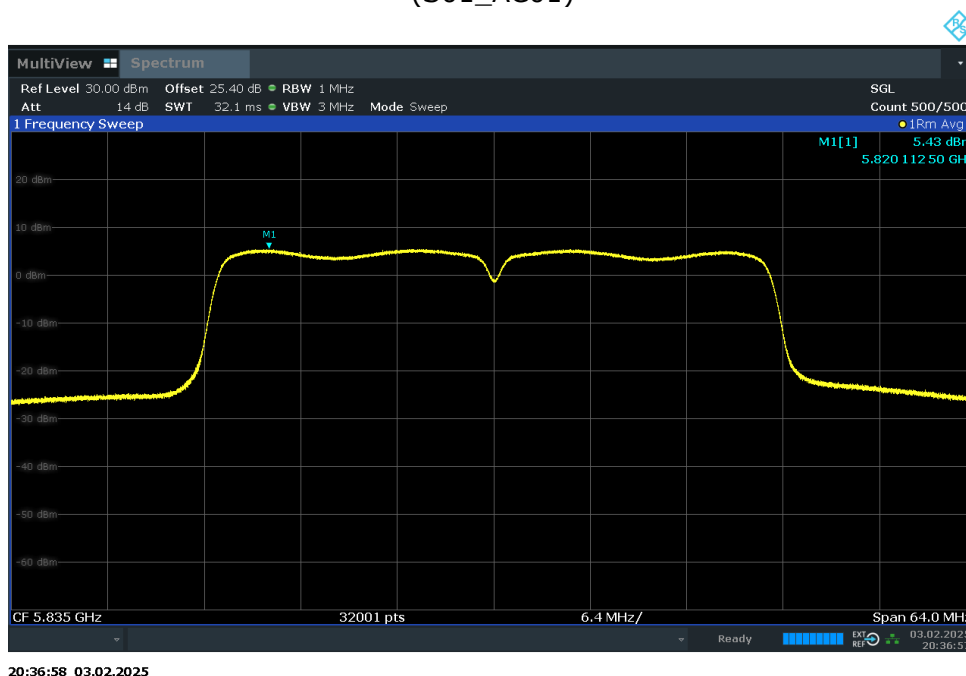


Path A

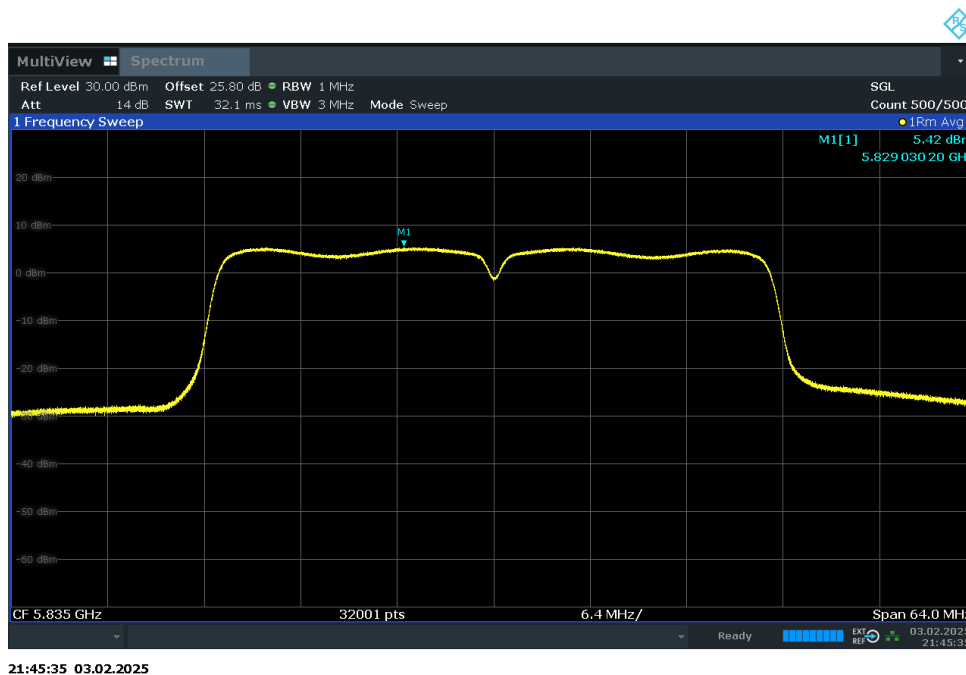


Path B

Radio Technology = WLAN ac 40 MHz, Operating Frequency = straddle, Subband = U-NII-3 + U-NII-4 (S01_AC01)

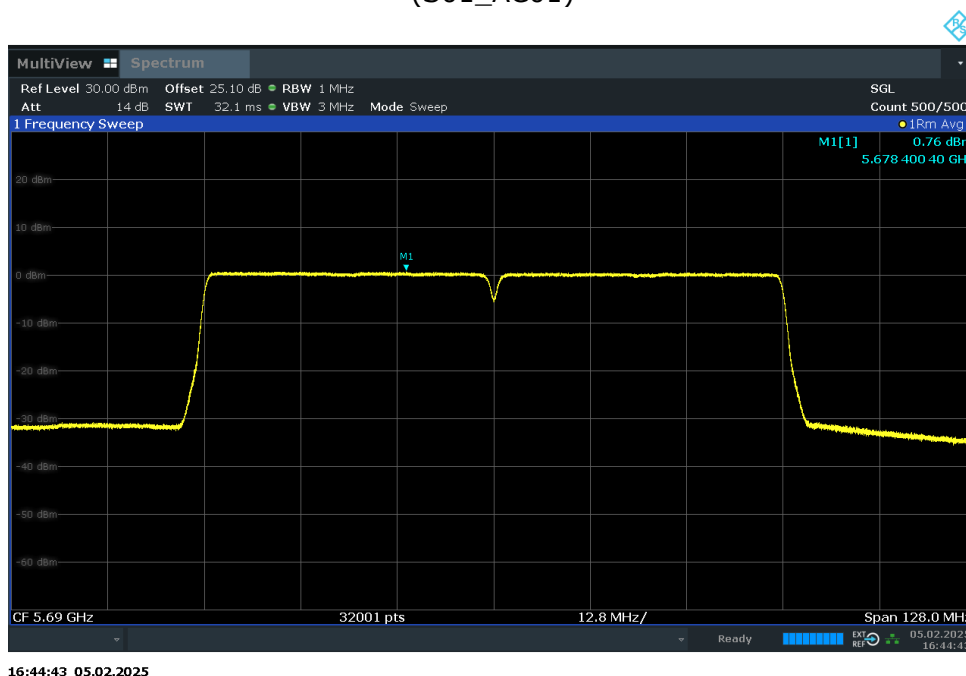


Path A

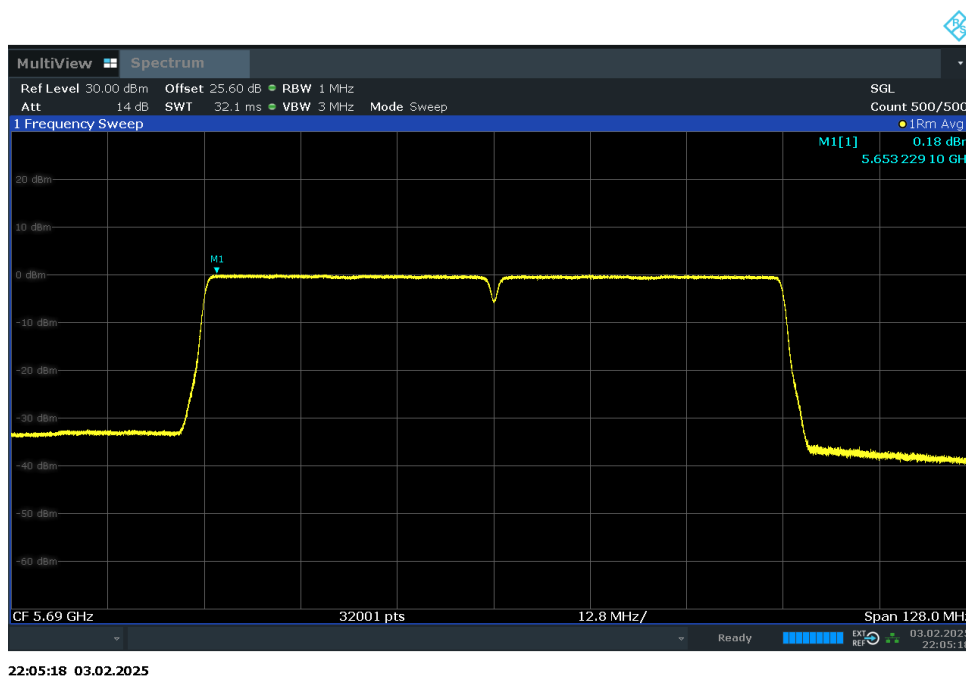


Path B

Radio Technology = WLAN ac 80 MHz, Operating Frequency = straddle, Subband = U-NII-2C + U-NII-3 (S01_AC01)

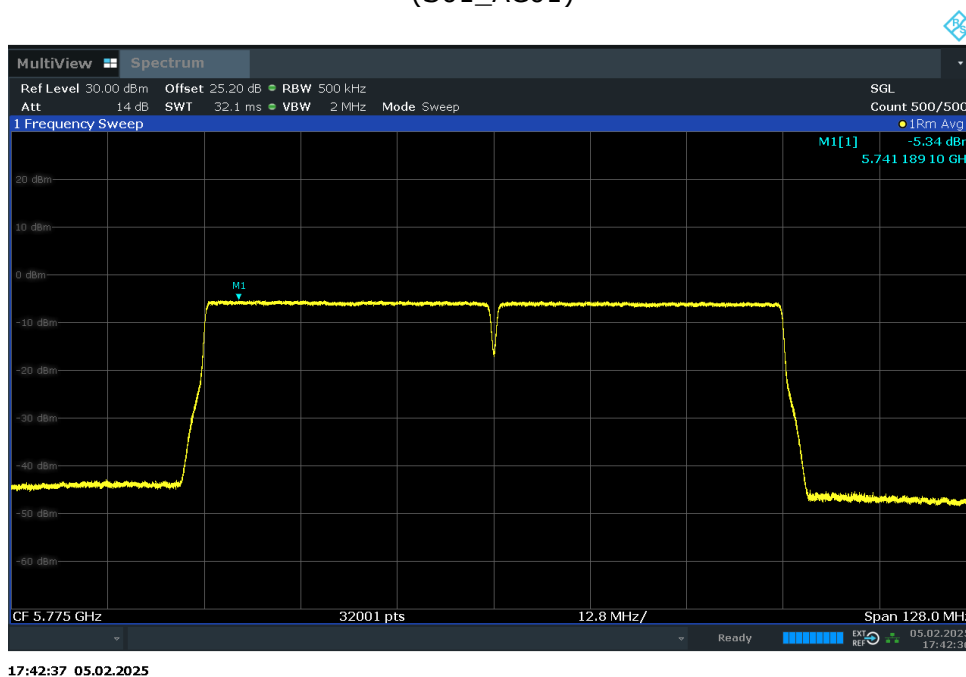


Path A

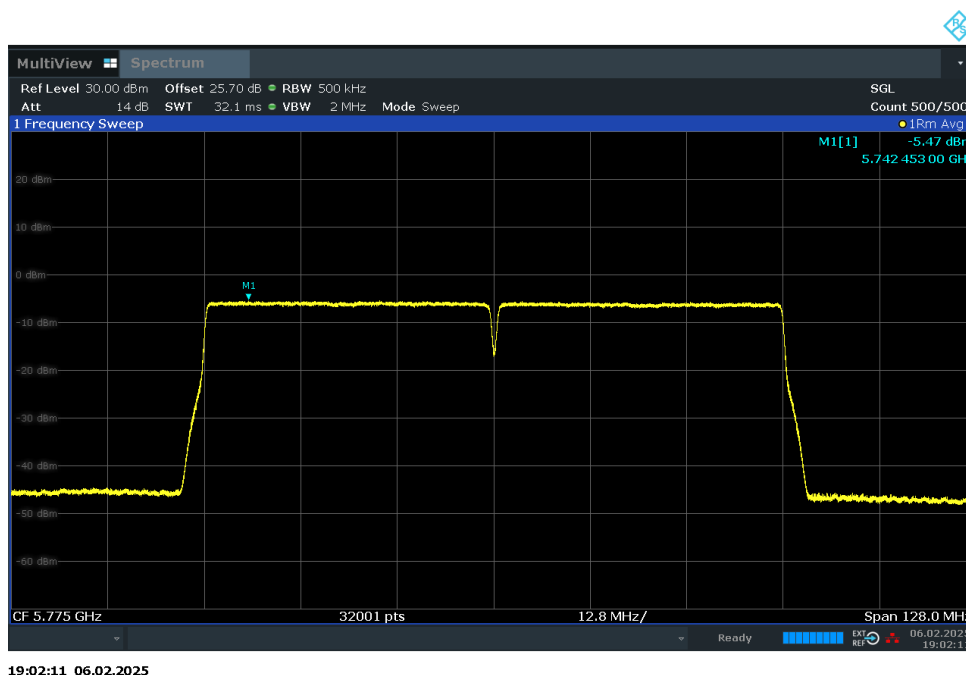


Path B

Radio Technology = WLAN ac 80 MHz, Operating Frequency = mid, Subband = U-NII-3 (S01_AC01)

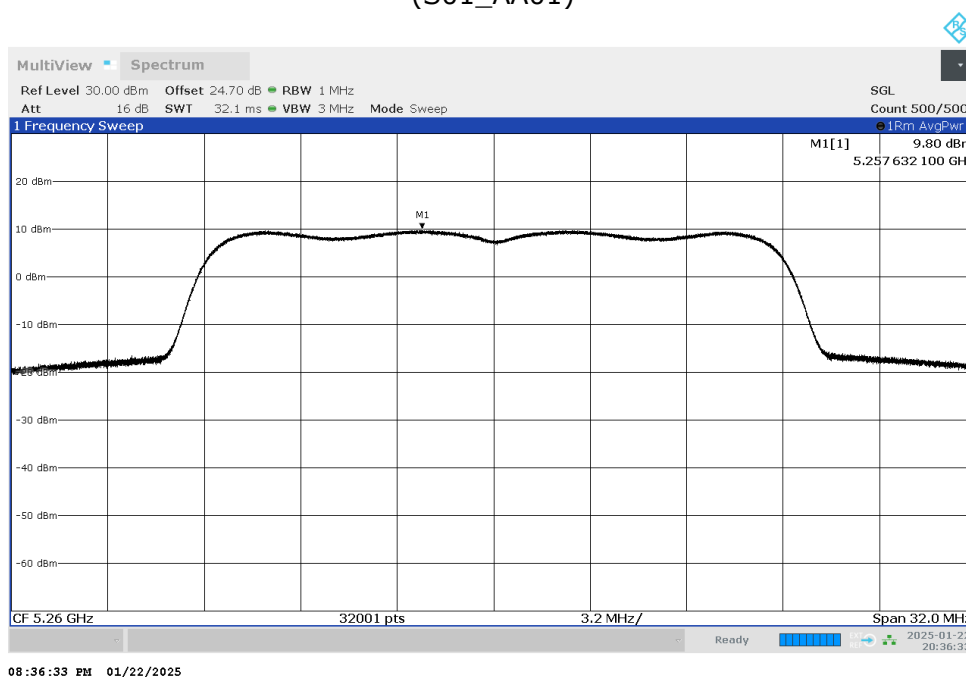


Path A

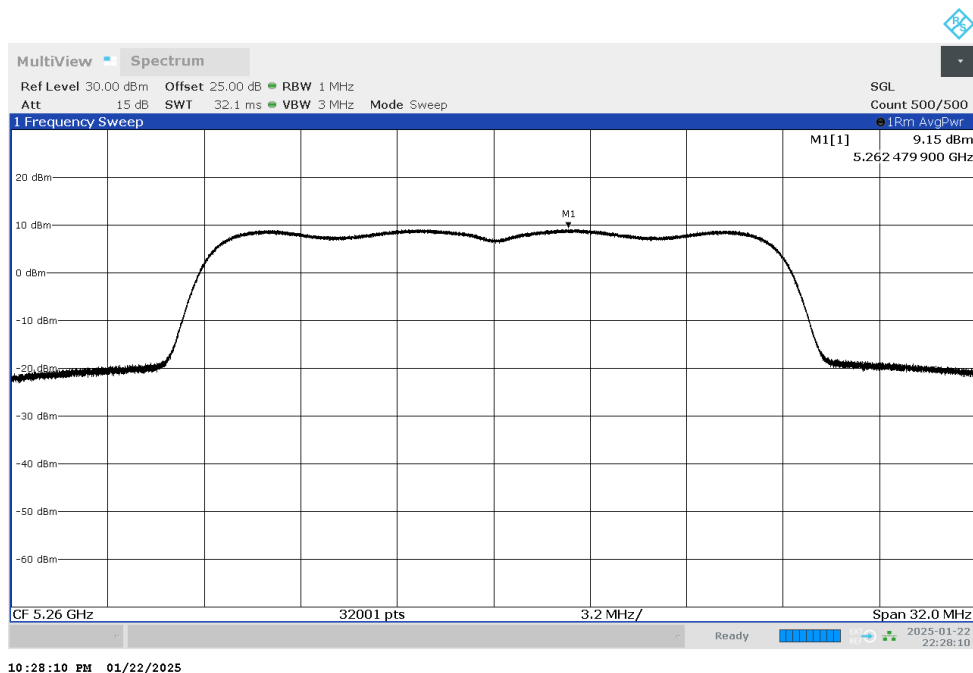


Path B

Radio Technology = WLAN ax 20 MHz, Operating Frequency = low, Subband = U-NII-2A (S01_AA01)

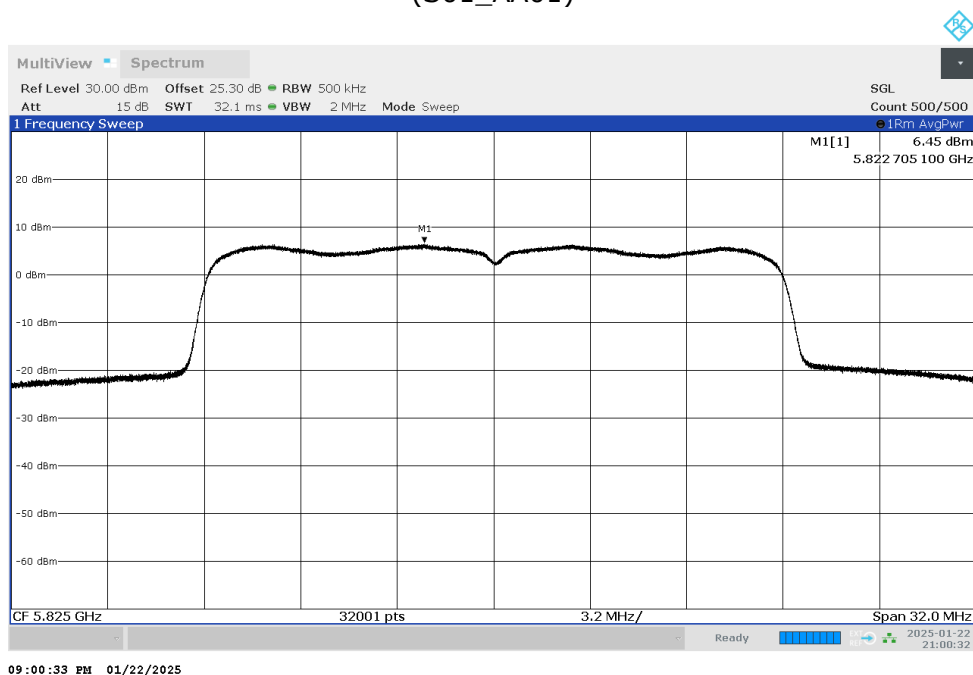


Path A

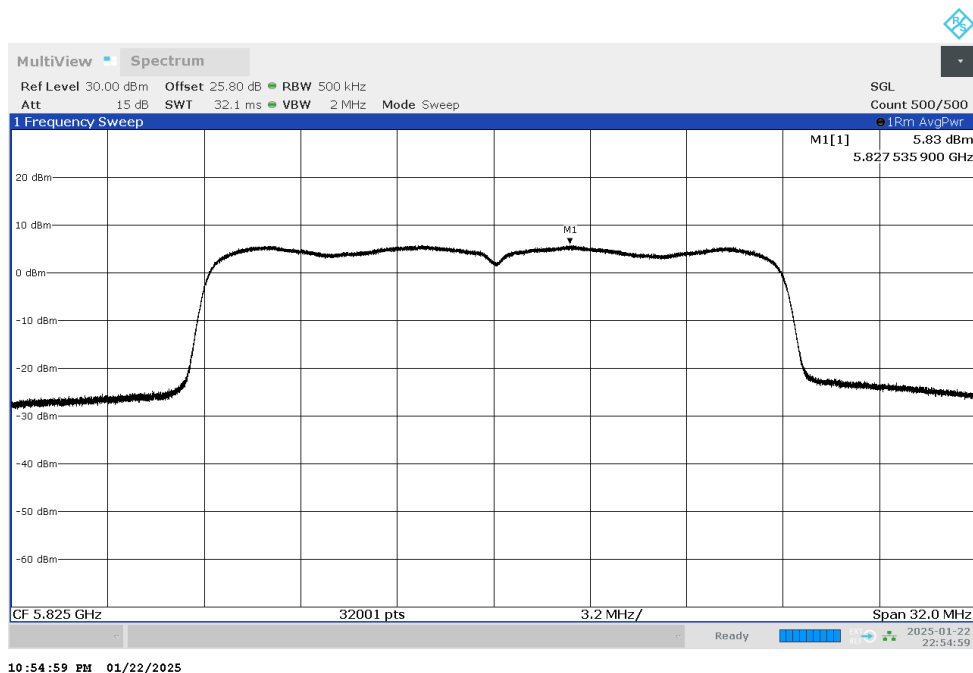


Path B

Radio Technology = WLAN ax 20 MHz, Operating Frequency = high, Subband = U-NII-3 (S01_AA01)

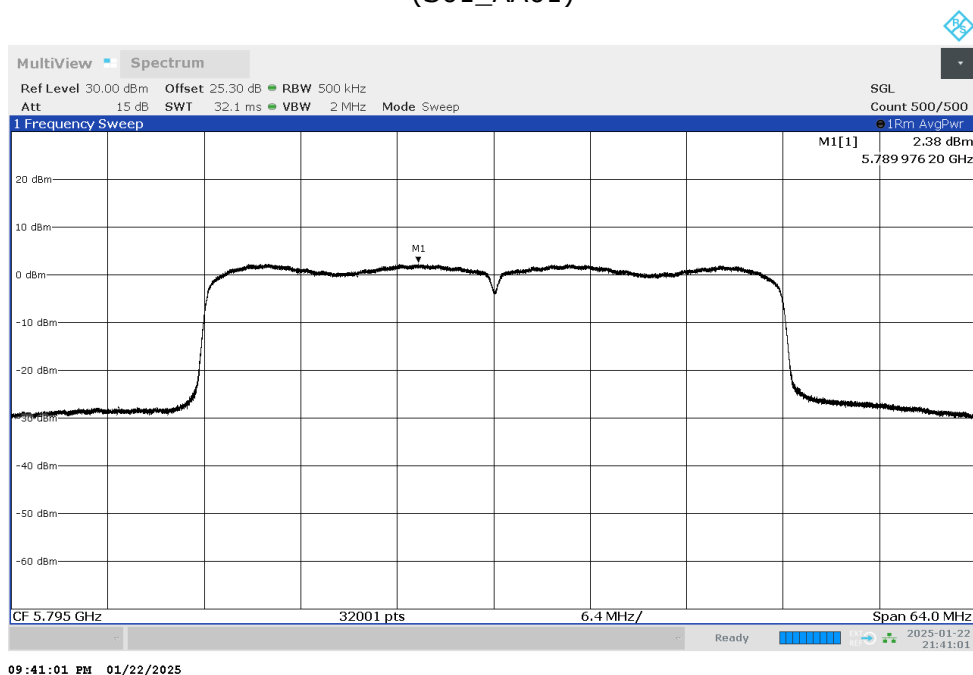


Path A

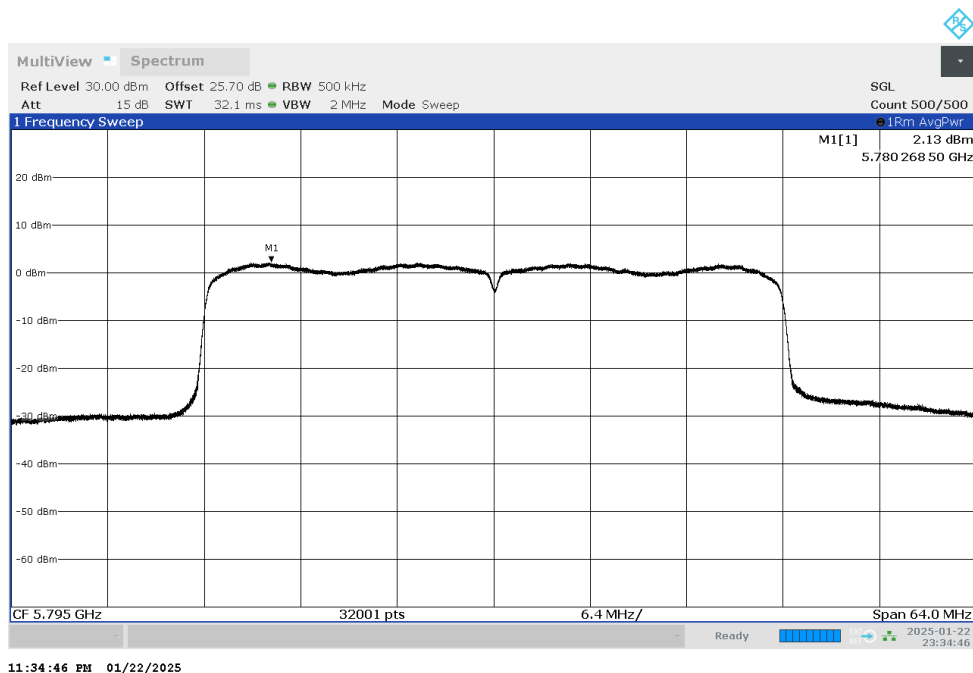


Path B

Radio Technology = WLAN ax 40 MHz, Operating Frequency = high, Subband = U-NII-3 (S01_AA01)

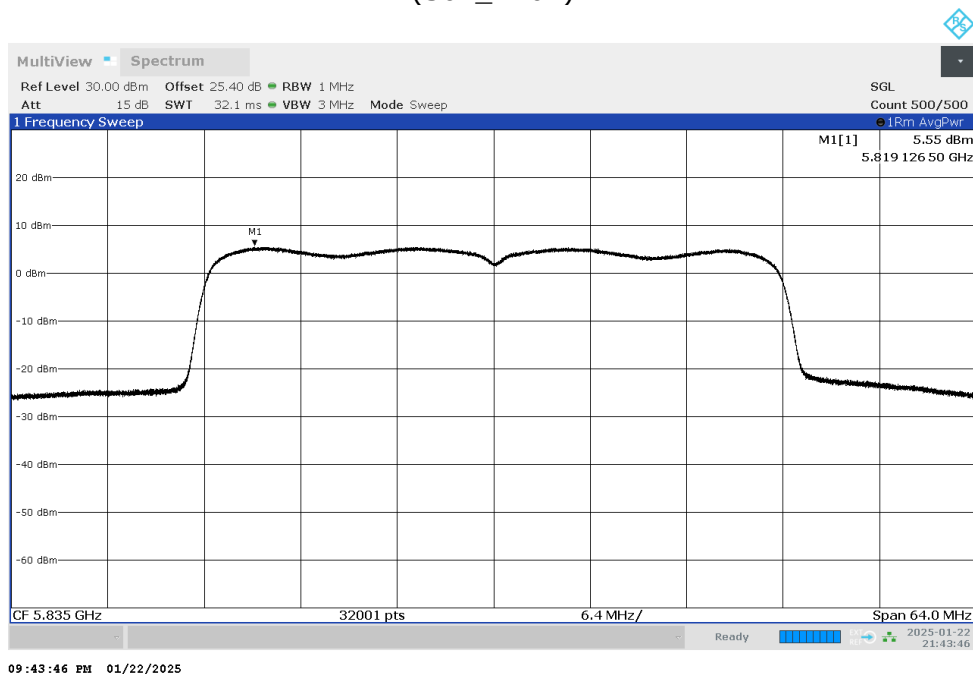


Path A

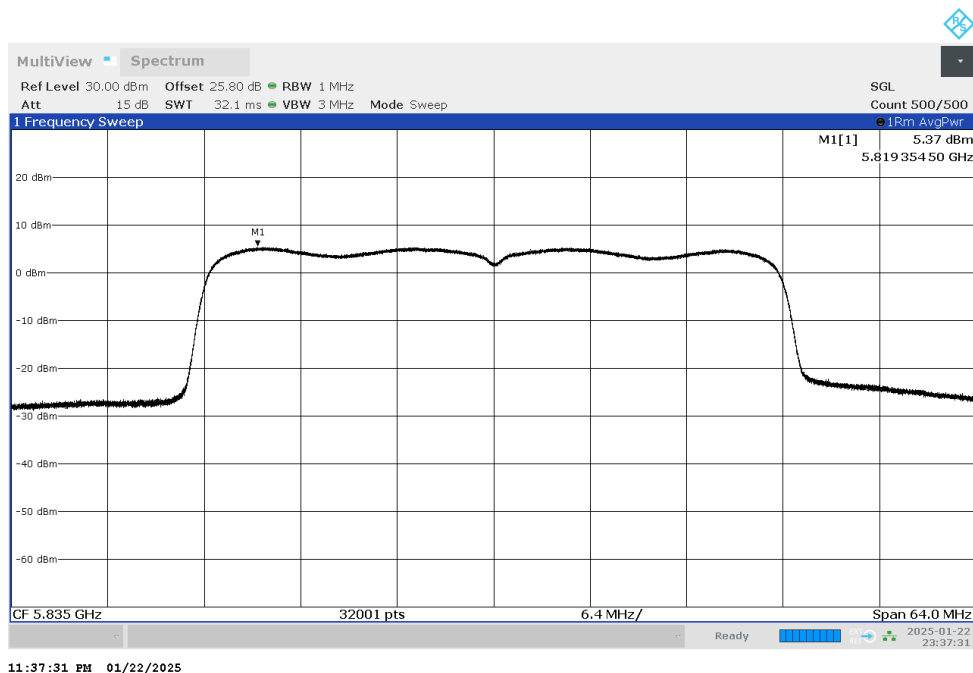


Path B

Radio Technology = WLAN ax 40 MHz, Operating Frequency = straddle, Subband = U-NII-3 + U-NII-4 (S01_AA01)

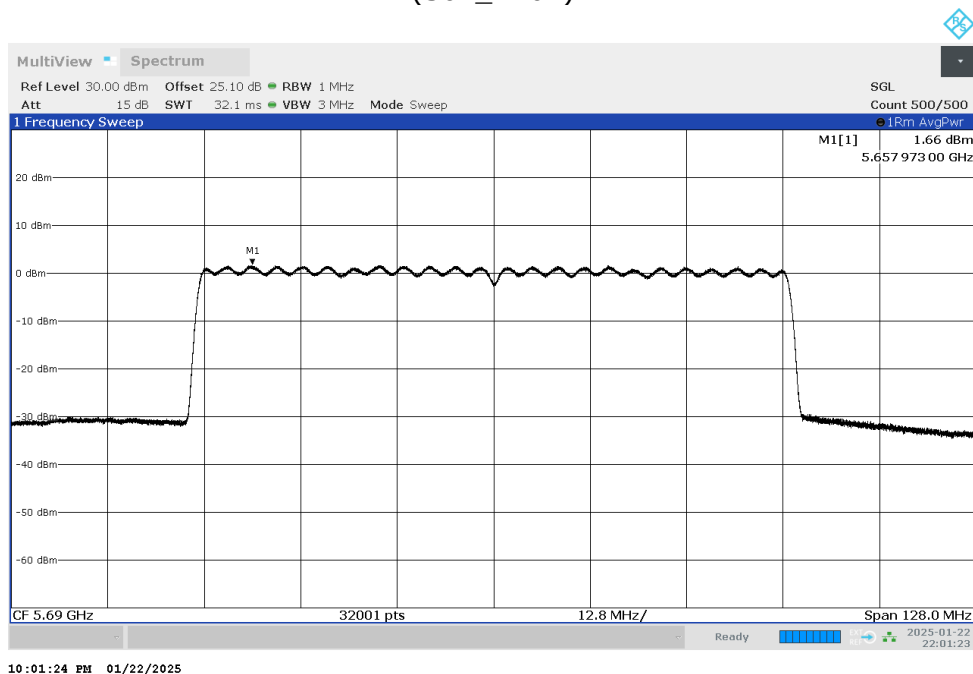


Path A

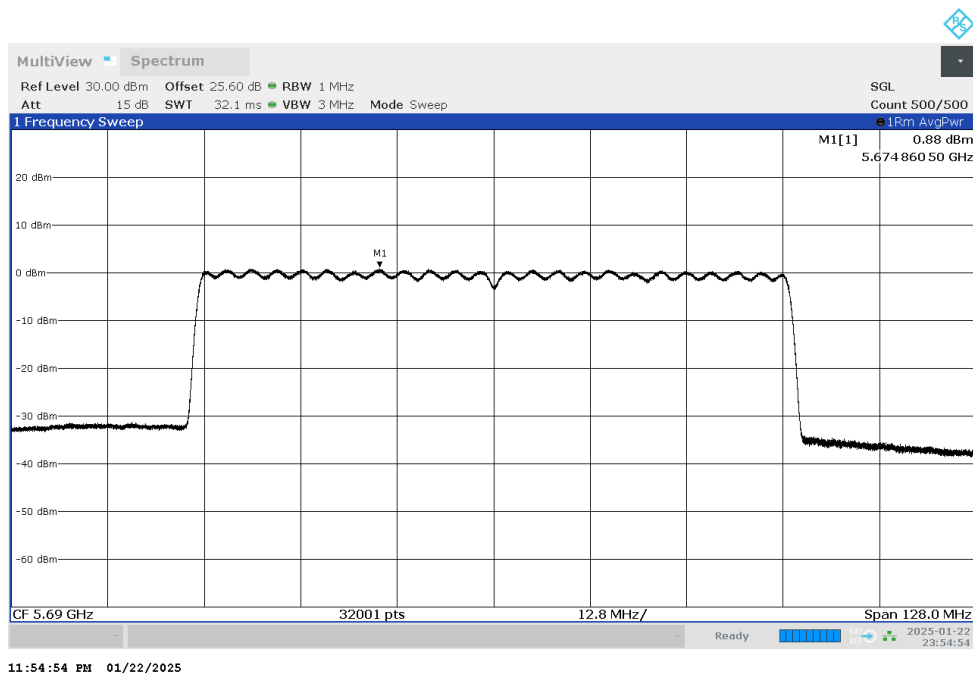


Path B

Radio Technology = WLAN ax 80 MHz, Operating Frequency = straddle, Subband = U-NII-2C + U-NII-3 (S01_AA01)

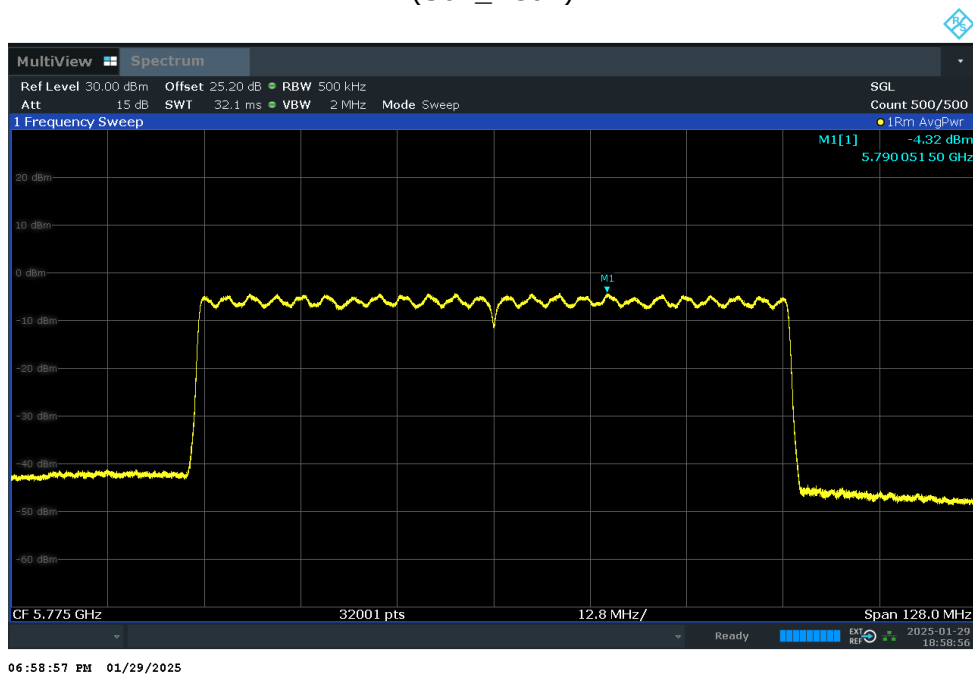


Path A

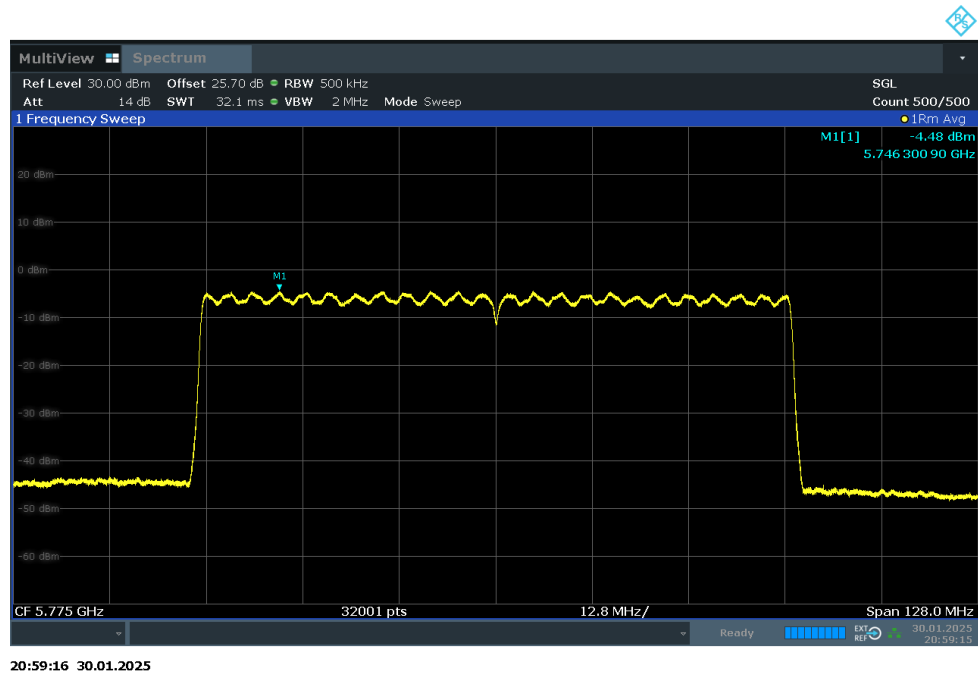


Path B

Radio Technology = WLAN ax 80 MHz, Operating Frequency = mid, Subband = U-NII-3 (S01_AC01)



Path A



Path B

5.6.5 TEST EQUIPMENT USED

- R&S TS8997

5.7 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

5.7.1 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:

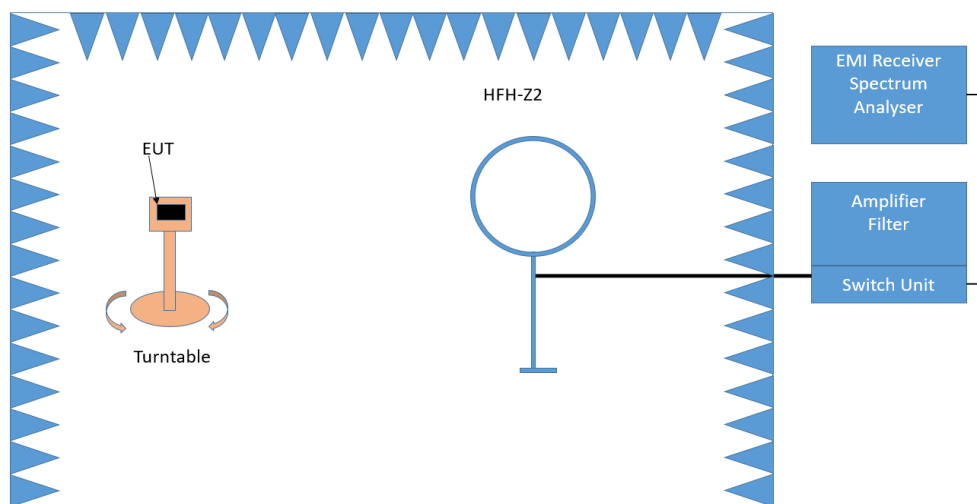
- < 30 MHz: Chapter 6.4
- 30 MHz – 1 GHz: Chapter 6.5
- > 1 GHz: Chapter 6.6 (procedure according 6.6.5 used)

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)

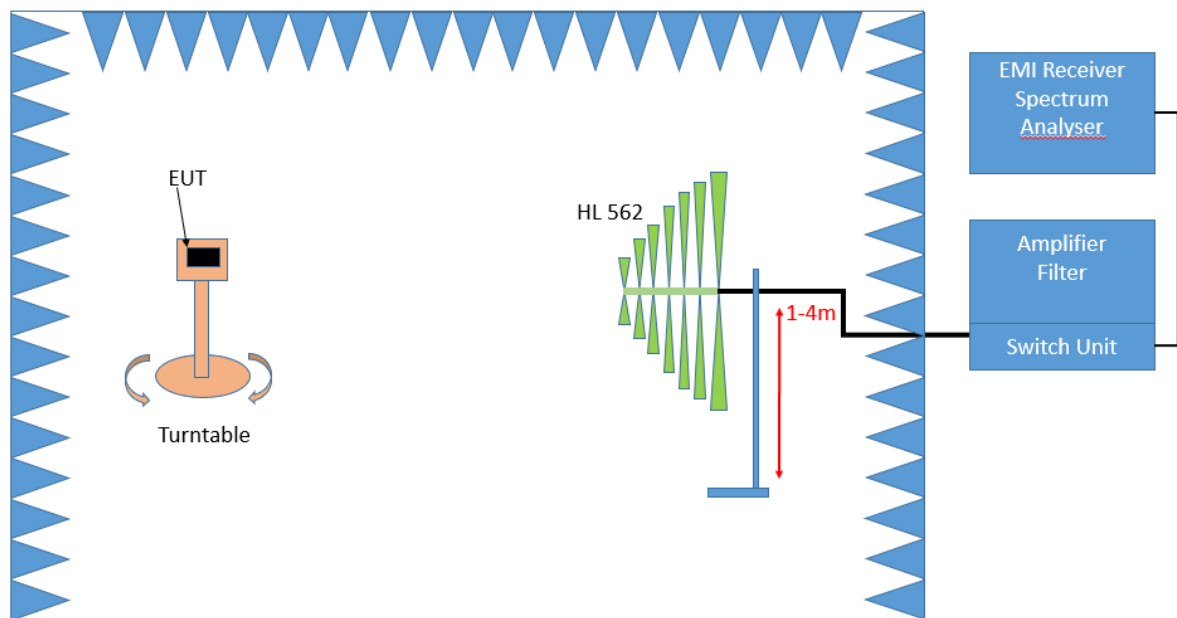
Intention of this step is, to determine the radiated EMI-profile of the EUT. Afterwards the relevant emissions for the final measurement are identified.

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

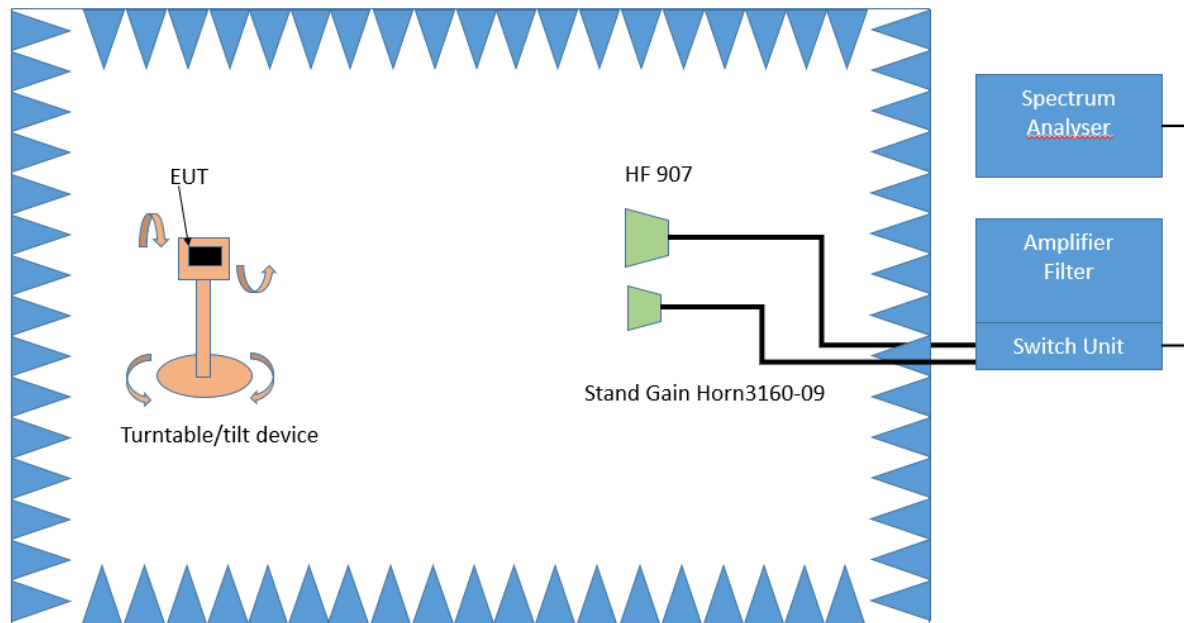
After the measurement a plot will be generated which contains a diagram with the results of the preliminary scan and a chart with the frequencies and values of the results of the final measurement.

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:

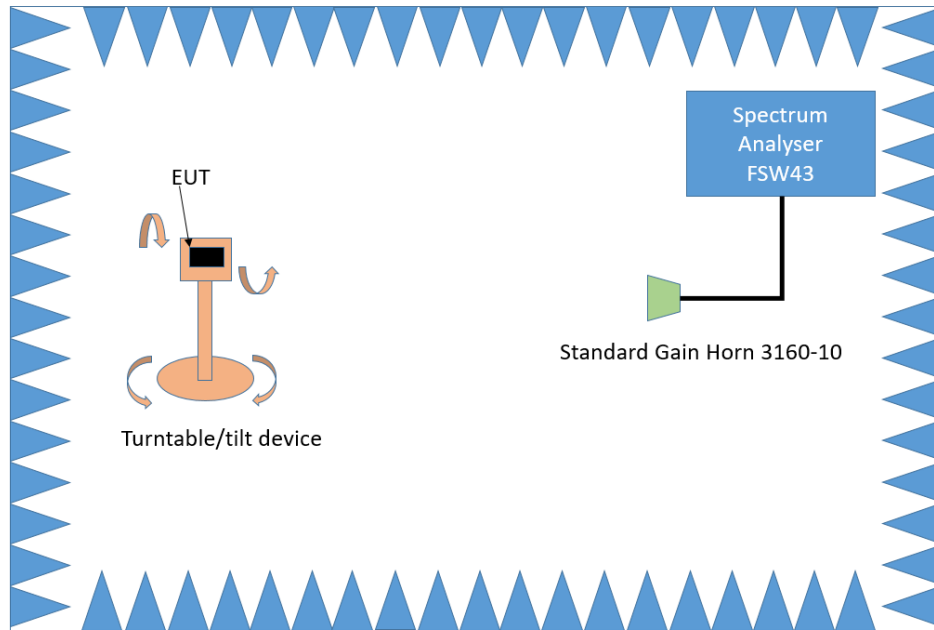
Spectrum analyser settings for step 3:

- 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

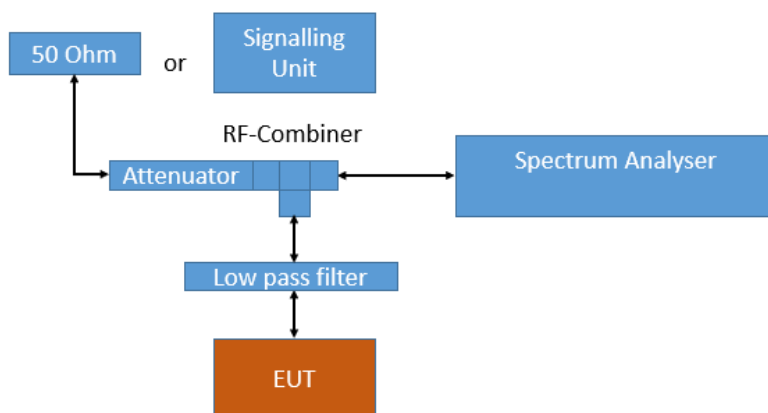


Test Setup; Spurious Emission Radiated (FAC), 26.5 – 40 GHz

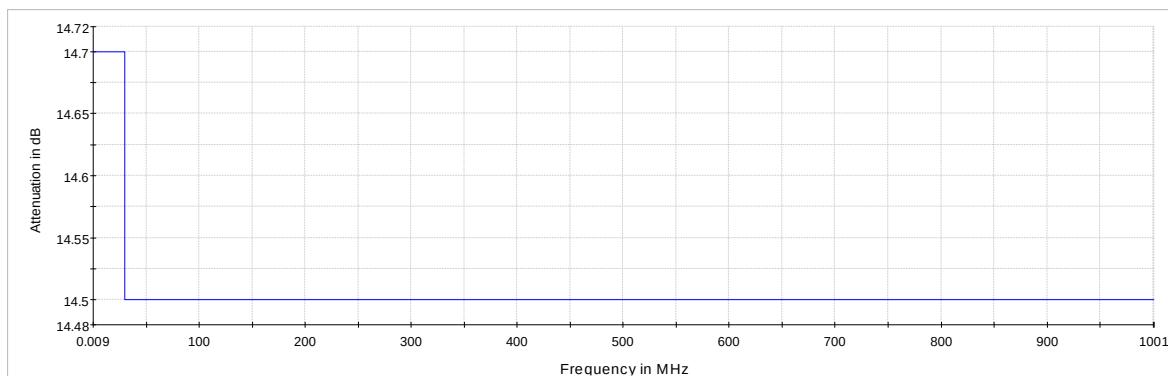
Conducted Measurements at antenna ports:

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

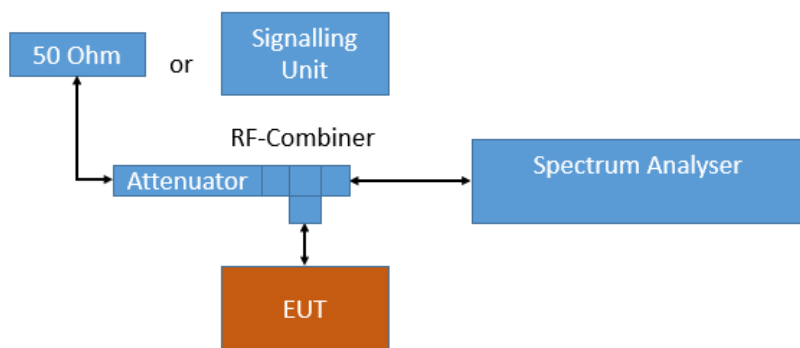
The EUT was connected to the test system as described in the block diagram below. The complete attenuation of the measurement path is known and considered.



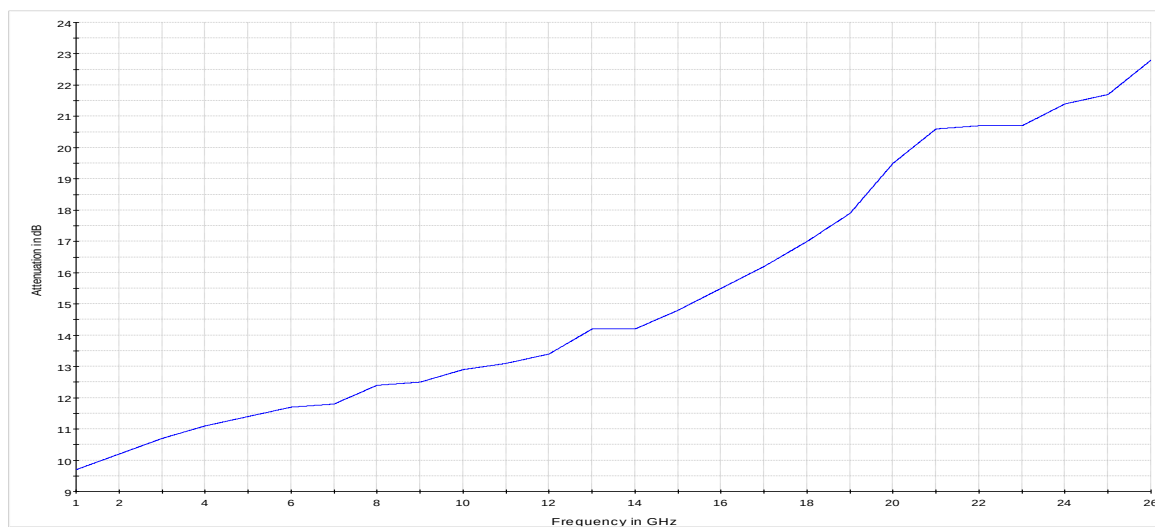
Measurement <1GHz: Path Attenuation Transducer DUT1_3dB_UFLx_TP2000



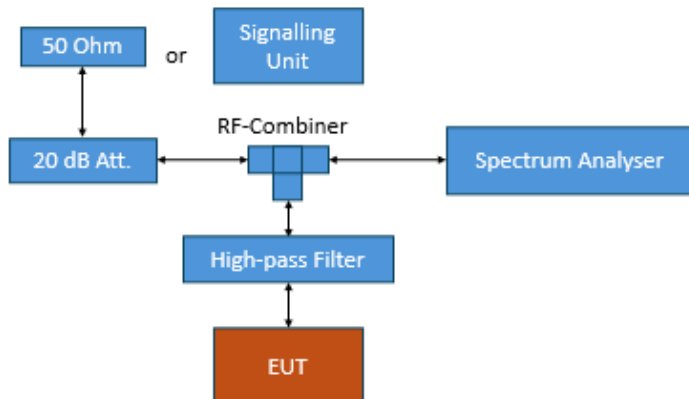
Transducer DUT1_3dB_UFLx_TP2000



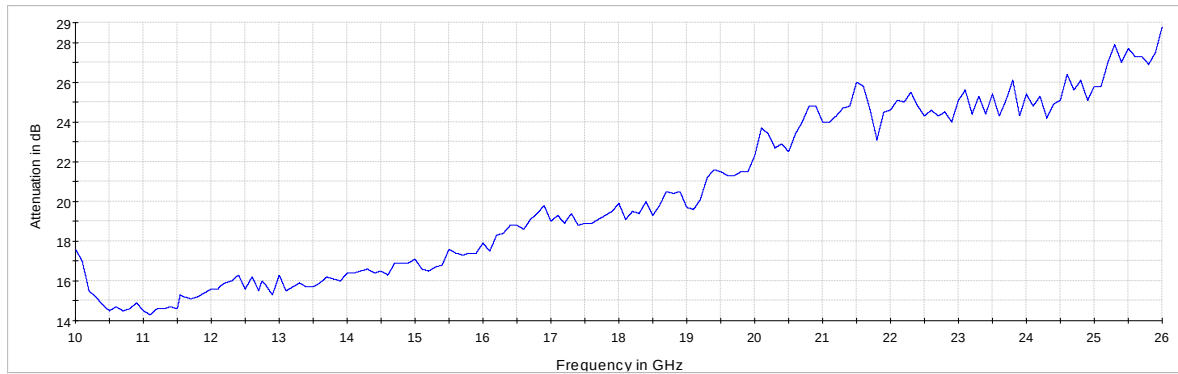
Measurement 1 – 13.5 GHz: Path Attenuation Transducer DUT1_3dB_UFLx



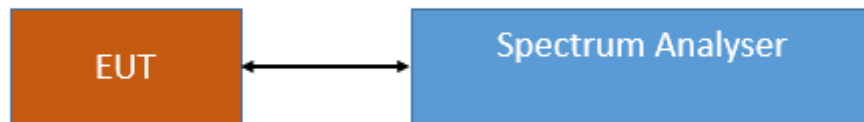
Transducer DUT1_3dB_UFLx



Measurement 13.5 - 26 GHz: Path Attenuation Transducer DUT1_3dB_UFLx_HF11



Transducer DUT1_3dB_UFLx_HF11



Measurement 26 GHz - 40 GHz

Offset for Cable (5.5 dB) + Ufl cable (13.8 dB) + Ant. Gain = 24.6 dB (5 GHz)
25.1 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 $\leq$ 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

5.7.2 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.

FCC Part 15 Subpart E, §15.407 (b)(5)

For transmitters operating in the 5850–5895 MHz band or that spans across the 5.725–5.895 GHz bands:

For a client device or indoor access point or subordinate device below 5725 MHz:

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

For an indoor access point or subordinate device above 5.895 GHz:

Shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of –7 dBm/MHz at or above 5.925 GHz.

For a client device above 5.895 GHz:

Shall not exceed an e.i.r.p. of –5 dBm/MHz and shall decrease linearly to an e.i.r.p. of –27 dBm/MHz at or above 5.925 GHz.

B) IC

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

RSS-247, 7.3.1.3, Emissions outside the band 5150–5250 MHz, indoor operation only:

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

Any unwanted emissions that falls between the upper edge of the 26 dB bandwidth and 5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth.

RSS-247, 7.3.2.3, Emissions outside the band 5250–5350 MHz:

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

All emissions inside the band 5150–5250 MHz shall either not exceed –27 dBm/MHz peak e.i.r.p spectral density, or comply with the power spectral density for operation in section 7.3.1.2.

RSS-247, 7.3.3.3, Emissions outside the bands 5470-5725 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.

RSS-247, 7.3.4.4, Emissions outside the band 5725-5850 MHz:

- a. 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 Bm/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.

RSS-247, 7.3.5.4, Emissions outside the band 5850-5895 MHz:

Below 5725 MHz:

27 dBm/MHz at frequencies from the band edge decreasing linearly to 15.6 Bm/MHz at 5 MHz below the band edge;

15.6 dBm/MHz at 5 MHz below the band edge decreasing linearly to 10 dBm/MHz at 25 MHz below the band edge;

10 dBm/MHz at 25 MHz below the band edge decreasing linearly to -27 dBm/MHz at 75 MHz below the band edge; and

-27 dBm/MHz at frequencies more than 75 MHz below the band edge.

Above 5895 MHz:

Fixed outdoor APs and fixed outdoor client devices: Shall not exceed -27dBm/MHz at or above the 5895 MHz band edge.

Indoor APs or indoor subordinate devices: Shall not exceed 15 dBm/MHz at the 5895 MHz band edge and shall decrease linearly to not exceed -7dBm/MHz at or above 5925 MHz.

Client devices: Shall not exceed -5 dBm/MHz at the 5895 MHz band edge and shall decrease linearly to not exceed -27 dBm/MHz at or above 5925MHz.

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.

5.7.3 TEST PROTOCOL

Ambient temperature: 22 - 27 °C

Air Pressure: 1001 - 1015 hPa

Humidity: 39 - 56 %

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 Path A / B	5180	-	-	-	-	-	-	-
Conducted Path A / B	5200	-	-	-	-	-	-	-
Conducted Path A / B	5240	-	-	-	-	-	-	-
Conducted Path A	5260	15781.3	43.5	PEAK	1000	74.0	30.5	RB
Conducted Path A	5260	15781.3	37.3	AV	1000	54.0	16.7	RB
Conducted Path B	5260	15780.1	53.3	PEAK	1000	74.0	20.7	RB
Conducted Path B	5260	15780.1	42.4	AV	1000	54.0	11.7	RB
Conducted Path A	5260	26291.4	63.1	PEAK	1000	68.2	5.1	UE

Conducted Path B	5260	26301.0	54.5	PEAK	1000	68.2	13.7	UE
Conducted Path A	5300	15899.6	47.5	PEAK	1000	74.0	26.6	RB
Conducted Path A	5300	15899.6	37.0	AV	1000	54.0	17.0	RB
Conducted Path B	5300	15899.6	53.6	PEAK	1000	74.0	20.4	RB
Conducted Path B	5300	15899.6	42.0	AV	1000	54.0	12.0	RB
Conducted Path A	5300	26491.3	62.7	PEAK	1000	68.2	5.5	UE
Conducted Path B	5300	26492.2	55.4	PEAK	1000	68.2	12.8	UE
Conducted Path A	5320	26605.9	57.5	PEAK	1000	68.2	10.7	UE
Conducted Path B	5320	-	-	-	-	-	-	UE
Conducted Path A	5500	27500.6	51.4	PEAK	1000	68.2	16.8	UE
Conducted Path A	5580	27893.5	59.4	PEAK	1000	68.2	8.8	UE
Conducted Path B	5580	27902.3	55.3	PEAK	1000	68.2	12.9	UE
Conducted Path A / B	5700	-	-	-	-	-	-	-
Conducted Path A / B	5745	-	-	-	-	-	-	-
Conducted Path A / B	5785	-	-	-	-	-	-	-
Conducted Path A	5825	11650.0	56.6	PEAK	1000	74.0	17.4	RB
Conducted Path A	5825	11650.0	48.6	AV	1000	54.0	5.4	RB
Conducted Path B	5825	11650.0	56.1	PEAK	1000	74.0	17.9	RB
Conducted Path B	5825	11650.0	48.1	AV	1000	54.0	5.9	RB
Conducted Path A / B	5865	-	-	-	-	-	-	-
Conducted Path A / B	5885	-	-	-	-	-	-	-
Radiated Path A	5180	20720.2	53.8	PEAK	1000	74.0	20.2	RB
Radiated Path A	5180	20720.2	50.2	AV	1000	54.0	3.8	RB
Radiated Path A	5200	20800.2	56.6	PEAK	1000	74.0	17.4	RB
Radiated Path A	5200	20800.2	52.0	AV	1000	54.0	2.0	RB
Radiated Path A	5240	20960.0	54.8	PEAK	1000	74.0	19.2	RB

Radiated Path A	5240	20960.0	48.4	AV	1000	54.0	5.6	RB
Radiated Path A	5260	10526.9	57.8	PEAK	1000	68.2	10.4	UE
Radiated Path A	5260	21040.3	57.7	PEAK	1000	74.0	16.3	RB
Radiated Path A	5260	21040.3	52.6	AV	1000	54.0	1.4	RB
Radiated Path A	5300	10600.2	59.1	PEAK	1000	74.0	14.9	RB
Radiated Path A	5300	10600.2	46.6	AV	1000	54.0	7.4	RB
Radiated Path A	5300	21200.1	56.3	PEAK	1000	74.0	17.7	RB
Radiated Path A	5300	21200.1	50.6	AV	1000	54.0	3.4	RB
Radiated Path A	5320	10639.6	58.8	PEAK	1000	74.0	15.2	RB
Radiated Path A	5320	10639.6	45.6	AV	1000	54.0	8.4	RB
Radiated Path A	5320	21280.0	53.9	PEAK	1000	74.0	20.1	RB
Radiated Path A	5320	21280.0	46.5	AV	1000	54.0	7.5	RB
Radiated Path A	5500	10998.8	62.2	PEAK	1000	74.0	11.8	RB
Radiated Path A	5500	10998.8	50.1	AV	1000	54.0	3.9	RB
Radiated Path A	5500	22000.2	57.5	PEAK	1000	68.2	10.7	UE
Radiated Path A	5580	11160.2	63.7	PEAK	1000	74.0	10.3	RB
Radiated Path A	5580	11160.2	51.7	AV	1000	54.0	2.3	RB
Radiated Path A	5580	16736.6	58.2	PEAK	1000	68.2	10.0	UE
Radiated Path A	5580	22320.1	54.0	PEAK	1000	74.0	20.0	RB
Radiated Path A	5580	22320.1	51.4	AV	1000	54.0	2.6	RB
Radiated Path A	5700	11400.4	64.1	PEAK	1000	74.0	9.9	RB
Radiated Path A	5700	11400.4	50.5	AV	1000	54.0	3.5	RB
Radiated Path A	5700	22800.1	57.9	PEAK	1000	74.0	16.1	RB
Radiated Path A	5700	22800.1	53.5	AV	1000	54.0	0.5	RB
Radiated Path A	5745	11490.5	66.0	PEAK	1000	74.0	8.0	RB
Radiated Path A	5745	11490.5	52.8	AV	1000	54.0	1.2	RB

Radiated Path A	5745	22979.9	57.9	PEAK	1000	74.0	16.1	RB
Radiated Path A	5745	22979.9	52.3	AV	1000	54.0	1.7	RB
Radiated Path A	5785	11570.3	64.8	PEAK	1000	74.0	9.2	RB
Radiated Path A	5785	11570.3	52.0	AV	1000	54.0	2.0	RB
Radiated Path A	5785	17358.3	59.7	PEAK	1000	68.2	8.5	UE
Radiated Path A	5825	11650.2	64.6	PEAK	1000	74.0	9.4	RB
Radiated Path A	5825	11650.2	53.1	AV	1000	54.0	0.9	RB
Radiated Path A	5825	17471.4	59.5	PEAK	1000	68.2	8.7	UE
Radiated Path B	5825	11649.9	64.5	PEAK	1000	74.0	9.5	RB
Radiated Path B	5825	11649.9	53.3	AV	1000	54.0	0.7	RB
Radiated Path A	5865	11730.3	64.1	PEAK	1000	74.0	9.9	RB
Radiated Path A	5865	11730.3	51.9	AV	1000	54.0	2.1	RB
Radiated Path A	5865	17592.0	62.8	PEAK	1000	68.2	5.4	UE
Radiated Path A	5885	11770.0	63.3	PEAK	1000	74.0	10.7	RB
Radiated Path A	5885	11770.0	51.2	AV	1000	54.0	2.8	RB
Radiated Path A	5885	17661.9	61.1	PEAK	1000	68.2	7.1	UE

WLAN n-Mode; 20 MHz; MCS 3; SISO
Applied duty cycle correction (AV): 0 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 Path A / B	5180	-	-	-	-	-	-	-
Conducted Path A / B	5200	-	-	-	-	-	-	-
Conducted Path A / B	5240	-	-	-	-	-	-	-
Conducted Path A	5260	15779.3	47.5	PEAK	1000	74.0	26.5	RB
Conducted Path A	5260	15779.3	37.1	AV	1000	54.0	16.9	RB
Conducted Path A	5260	26296.2	61.5	PEAK	1000	68.2	6.7	UE
Conducted Path B	5260	15778.5	53.2	PEAK	1000	74.0	20.8	RB

Conducted Path B	5260	15778.5	42.3	AV	1000	54.0	11.7	RB
Conducted Path B	5260	26305.4	56.3	PEAK	1000	68.2	11.9	UE
Conducted Path A	5300	15901.6	47.9	PEAK	1000	74.0	26.2	RB
Conducted Path A	5300	15901.6	36.8	AV	1000	54.0	17.2	RB
Conducted Path A	5300	26500.9	60.4	PEAK	1000	68.2	7.8	UE
Conducted Path B	5300	15903.1	52.5	PEAK	1000	74.0	21.5	RB
Conducted Path B	5300	15903.1	42.0	AV	1000	54.0	12.0	RB
Conducted Path B	5300	26498.3	44.4	PEAK	1000	68.2	23.9	UE
Conducted Path A	5320	26585.8	55.4	PEAK	1000	68.2	12.9	UE
Conducted Path B	5320	-	-	-	-	-	-	-
Conducted Path A	5500	27501.5	42.0	PEAK	1000	68.2	26.2	UE
Conducted Path B	5500	-	-	-	-	-	-	-
Conducted Path A	5580	27914.9	60.8	PEAK	1000	68.2	7.4	UE
Conducted Path B	5580	27900.5	56.1	PEAK	1000	68.2	12.1	UE
Conducted Path A / B	5700	-	-	-	-	-	-	-
Conducted Path A / B	5745	-	-	-	-	-	-	-
Conducted Path A / B	5785	-	-	-	-	-	-	-
Conducted Path A	5825	11649.6	56.4	PEAK	1000	74.0	17.6	RB
Conducted Path A	5825	11649.6	48.4	AV	1000	54.0	5.6	RB
Conducted Path B	5825	11650.1	56.9	PEAK	1000	74.0	17.1	RB
Conducted Path B	5825	11650.1	48.1	AV	1000	54.0	5.9	RB
Conducted Path A / B	5865	-	-	-	-	-	-	-
Conducted Path A / B	5885	-	-	-	-	-	-	-
Radiated Path A	5745	11489.7	63.6	PEAK	1000	74.0	10.4	RB
Radiated Path A	5745	11489.7	53.3	AV	1000	54.0	0.7	RB
Radiated Path A	5745	22980.0	58.0	PEAK	1000	74.0	16.0	RB

Radiated Path A	5745	22980.0	51.5	AV	1000	54.0	2.5	RB
-----------------	------	---------	------	----	------	------	-----	----

WLAN n-Mode; 40 MHz; MCS 3; SISO
Applied duty cycle correction (AV): 0 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 Path A / B	5190	-	-	-	-	-	-	UE
Conducted Path A / B	5230	-	-	-	-	-	-	UE
Conducted Path A / B	5270	-	-	-	-	-	-	UE
Conducted Path A / B	5510	-	-	-	-	-	-	UE
Conducted Path A / B	5550	-	-	-	-	-	-	UE
Conducted Path A / B	5670	-	-	-	-	-	-	UE
Conducted Path A / B	5755	-	-	-	-	-	-	UE
Conducted Path A / B	5795	-	-	-	-	-	-	UE
Radiated Path A	5190	20760.0	56.5	PEAK	1000	74.0	17.5	RB
Radiated Path A	5190	20760.0	51.9	AV	1000	54.0	2.1	RB
Radiated Path B	5310	21240.3	57.3	PEAK	1000	74.0	16.7	RB
Radiated Path B	5310	21240.3	53.0	AV	1000	54.0	1.0	RB
Radiated Path B	5510	22040.1	56.5	PEAK	1000	74.0	17.5	RB
Radiated Path B	5510	22040.1	51.2	AV	1000	54.0	2.8	RB
Radiated Path A	5670	11340.3	59.0	PEAK	1000	74.0	15.0	RB
Radiated Path A	5670	11340.3	48.8	AV	1000	54.0	5.2	RB
Radiated Path A	5670	22680.3	56.0	PEAK	1000	74.0	18.0	RB
Radiated Path A	5670	22680.3	48.8	AV	1000	54.0	5.2	RB
Radiated Path B	5755	11510.2	65.1	PEAK	1000	74.0	8.9	RB
Radiated Path B	5755	11510.2	52.8	AV	1000	54.0	1.2	RB
Radiated Path B	5755	23020.2	58.4	PEAK	1000	74.0	15.6	RB
Radiated Path B	5755	23020.2	53.2	AV	1000	54.0	0.8	RB

Radiated Path A	5795	11590.0	63.1	PEAK	1000	74.0	10.9	RB
Radiated Path A	5795	11590.0	51.7	AV	1000	54.0	2.3	RB
Radiated Path A	5835	11670.0	62.1	PEAK	1000	74.0	11.9	RB
Radiated Path A	5835	11670.0	50.7	AV	1000	54.0	3.3	RB
Radiated Path A	5835	23340.0	58.6	PEAK	1000	68.2	9.6	UE
Radiated Path B	5875	11749.9	61.7	PEAK	1000	74.0	12.3	RB
Radiated Path B	5875	11749.9	49.8	AV	1000	54.0	4.2	RB

WLAN ac-Mode; 20 MHz; MCS 3; SISO
 Applied duty cycle correction (AV): 0 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 Path A / B	5180	-	-	-	-	-	-	-
Conducted Path A / B	5200	-	-	-	-	-	-	-
Conducted Path A / B	5240	-	-	-	-	-	-	-
Conducted Path A	5260	15780.1	48.7	PEAK	1000	74.0	25.3	RB
Conducted Path A	5260	15780.1	36.8	AV	1000	54.0	17.2	RB
Conducted Path B	5260	15781.3	54.5	PEAK	1000	74.0	19.5	RB
Conducted Path B	5260	15781.3	42.3	AV	1000	54.0	11.7	RB
Conducted Path B	5260	26306.7	55.9	PEAK	1000	68.2	12.4	UE
Conducted Path A	5300	15901.2	47.0	PEAK	1000	74.0	27.0	RB
Conducted Path A	5300	15901.2	36.8	AV	1000	54.0	17.2	RB
Conducted Path A	5300	26506.6	62.1	PEAK	1000	68.2	6.2	UE
Conducted Path B	5300	15897.7	52.5	PEAK	1000	74.0	21.5	RB
Conducted Path B	5300	15897.7	41.7	AV	1000	54.0	12.3	RB
Conducted Path B	5300	26500.9	54.5	PEAK	1000	68.2	13.8	UE
Conducted Path A	5320	15959.4	44.4	PEAK	1000	74.0	29.6	RB
Conducted Path A	5320	15959.4	34.3	AV	1000	54.0	19.7	RB
Conducted Path A	5320	26585.4	59.4	PEAK	1000	68.2	8.8	UE
Conducted Path B	5320	15959.4	48.1	PEAK	1000	74.0	25.9	RB
Conducted Path B	5320	15962.1	37.8	AV	1000	54.0	16.2	RB
Conducted Path A	5500	16503.5	45.2	PEAK	1000	68.2	23.0	UE
Conducted Path A	5500	16503.5	35.3	AV	1000	54.0	18.7	UE
Conducted Path A	5500	27512.0	57.0	PEAK	1000	68.2	11.2	UE
Conducted Path B	5500	-	-	-	-	-	-	-
Conducted Path A	5580	16743.8	49.3	PEAK	1000	68.2	19.0	UE

Conducted Path A	5580	16743.0	38.1	AV	1000	54.0	15.9	UE
Conducted Path A	5580	27901.8	61.1	PEAK	1000	68.2	7.1	UE
Conducted Path B	5580	27890.4	54.8	PEAK	1000	68.2	13.4	UE
Conducted Path A / B	5700	-	-	-	-	-	-	-
Conducted Path A / B	5745	-	-	-	-	-	-	-
Conducted Path A / B	5785	-	-	-	-	-	-	-
Conducted Path A	5825	-	-	-	-	-	-	-
Conducted Path B	5825	11651.2	58.9	PEAK	1000	74.0	15.1	RB
Conducted Path B	5825	11651.2	48.3	AV	1000	54.0	5.7	RB
Conducted Path A / B	5865	-	-	-	-	-	-	-
Conducted Path A / B	5885	-	-	-	-	-	-	-
Radiated Path A	5825	11490.1	63.9	PEAK	1000	74.0	10.1	RB
Radiated Path A	5825	11490.1	53.0	AV	1000	54.0	1.0	RB
Radiated Path A	5825	22979.9	58.7	PEAK	1000	74.0	15.3	RB
Radiated Path A	5825	22979.9	52.2	AV	1000	54.0	1.8	RB

WLAN ac-Mode; 40 MHz; MCS 3; SISO
Applied duty cycle correction (AV): 0 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 Path A / B	5190	-	-	-	-	-	-	-
Conducted Path A / B	5230	-	-	-	-	-	-	-
Conducted Path A	5270	-	-	-	-	-	-	-
Conducted Path B	5270	15815.2	48.1	PEAK	1000	74.0	25.9	RB
Conducted Path B	5270	15810.5	37.7	AV	1000	54.0	16.3	RB
Conducted Path A / B	5310	-	-	-	-	-	-	-
Conducted Path A / B	5510	-	-	-	-	-	-	-
Conducted Path A / B	5550	-	-	-	-	-	-	-
Conducted Path A / B	5670	-	-	-	-	-	-	-
Conducted Path A / B	5755	-	-	-	-	-	-	-

Conducted Path A / B	5795	-	-	-	-	-	-	-
Conducted Path A / B	5875	-	-	-	-	-	-	-

WLAN ac-Mode; 80 MHz; MCS 3; SISO
Applied duty cycle correction (AV): 0 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 Path A / B	5210	-	-	-	-	-	-	-
Conducted Path A / B	5290	-	-	-	-	-	-	-
Conducted Path A / B	5530	-	-	-	-	-	-	-
Conducted Path A / B	5610	-	-	-	-	-	-	-
Conducted Path A / B	5775	-	-	-	-	-	-	-
Conducted Path A / B	5855	-	-	-	-	-	-	-
Radiated Path A	5855	-	-	-	-	-	-	-

WLAN ax-Mode; 20 MHz; MCS 10; SISO
Applied duty cycle correction (AV): 0 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 Path A / B	5180	-	-	-	-	-	-	-
Conducted Path A / B	5200	-	-	-	-	-	-	-
Conducted Path A / B	5240	-	-	-	-	-	-	-
Conducted Path A	5260	15784.0	47.3	PEAK	1000	74.0	26.7	RB
Conducted Path A	5260	15784.0	36.5	AV	1000	54.0	17.5	RB
Conducted Path B	5260	15777.7	53.8	PEAK	1000	74.0	20.2	RB
Conducted Path B	5260	15777.7	42.1	AV	1000	54.0	11.9	RB
Conducted Path A	5260	26300.1	62.5	PEAK	1000	68.2	5.7	UE
Conducted Path B	5260	26298.8	56.2	PEAK	1000	68.2	12.0	UE
Conducted Path A	5300	15896.9	47.1	PEAK	1000	74.0	26.9	RB
Conducted Path A	5300	15896.9	36.9	AV	1000	54.0	17.2	RB

Conducted Path B	5300	15901.2	52.2	PEAK	1000	74.0	21.8	RB
Conducted Path B	5300	15901.2	41.5	AV	1000	54.0	12.5	RB
Conducted Path A	5300	26500.9	64.3	PEAK	1000	68.2	3.9	UE
Conducted Path B	5300	26505.3	55.1	PEAK	1000	68.2	13.1	UE
Conducted Path A	5320	15946.5	43.7	PEAK	1000	74.0	30.3	RB
Conducted Path A	5320	15946.5	32.3	AV	1000	54.0	21.7	RB
Conducted Path A	5320	26607.7	59.1	PEAK	1000	68.2	9.1	UE
Conducted Path B	5320	15962.5	48.2	PEAK	1000	74.0	25.8	RB
Conducted Path B	5320	15961.3	37.4	AV	1000	54.0	16.7	RB
Conducted Path A	5500	27512.4	59.2	PEAK	1000	68.2	9.0	UE
Conducted Path B	5500	-	-	-	-	-	-	-
Conducted Path A	5580	27885.6	61.7	PEAK	1000	68.2	6.5	UE
Conducted Path B	5580	27898.3	57.6	PEAK	1000	68.2	10.6	UE
Conducted Path A / B	5700	-	-	-	-	-	-	-
Conducted Path A / B	5745	-	-	-	-	-	-	-
Conducted Path A / B	5785	-	-	-	-	-	-	-
Conducted Path A	5825	-	-	-	-	-	-	-
Conducted Path B	5825	11652.2	57.1	PEAK	1000	74.0	16.9	RB
Conducted Path B	5825	11652.2	48.0	AV	1000	54.0	6.0	RB
Conducted Path A / B	5865	-	-	-	-	-	-	-
Conducted Path A / B	5885	-	-	-	-	-	-	-
Radiated Path A	5745	11490.3	64.6	PEAK	1000	74.0	9.4	RB
Radiated Path A	5745	11490.3	52.7	AV	1000	54.0	1.3	RB
Radiated Path A	5745	22980.3	58.3	PEAK	1000	74.0	15.7	RB
Radiated Path A	5745	22980.3	51.4	AV	1000	54.0	2.6	RB

WLAN ax-Mode; 40 MHz; MCS 10; 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 Path A / B	5190	-	-	-	-	-	-	-
Conducted Path A / B	5230	-	-	-	-	-	-	-
Conducted Path A	5270	26352.6	58.5	PEAK	1000	68.2	9.8	UE
Conducted Path A	5270	15807.8	48.6	PEAK	1000	74.0	25.4	RB
Conducted Path A	5270	15806.6	37.7	AV	1000	54.0	16.3	RB
Conducted Path B	5270	-	-	-	-	-	-	-
Conducted Path A / B	5310	-	-	-	-	-	-	-
Conducted Path A / B	5510	-	-	-	-	-	-	-
Conducted Path A	5550	27753.1	55.8	PEAK	1000	68.2	12.4	UE
Conducted Path B	5550	-	-	-	-	-	-	-
Conducted Path A / B	5670	-	-	-	-	-	-	-
Conducted Path A / B	5755	-	-	-	-	-	-	-
Conducted Path A / B	5795	-	-	-	-	-	-	-
Conducted Path A / B	5875	-	-	-	-	-	-	-

WLAN ax-Mode; 80 MHz; MCS 10; SISO

Applied duty cycle correction (AV): 0 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 Path A / B	5210	-	-	-	-	-	-	-
Conducted Path A / B	5290	-	-	-	-	-	-	-
Conducted Path A / B	5530	-	-	-	-	-	-	-
Conducted Path A / B	5610	-	-	-	-	-	-	-
Conducted Path A / B	5775	-	-	-	-	-	-	-
Conducted Path A / B	5855	-	-	-	-	-	-	-

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

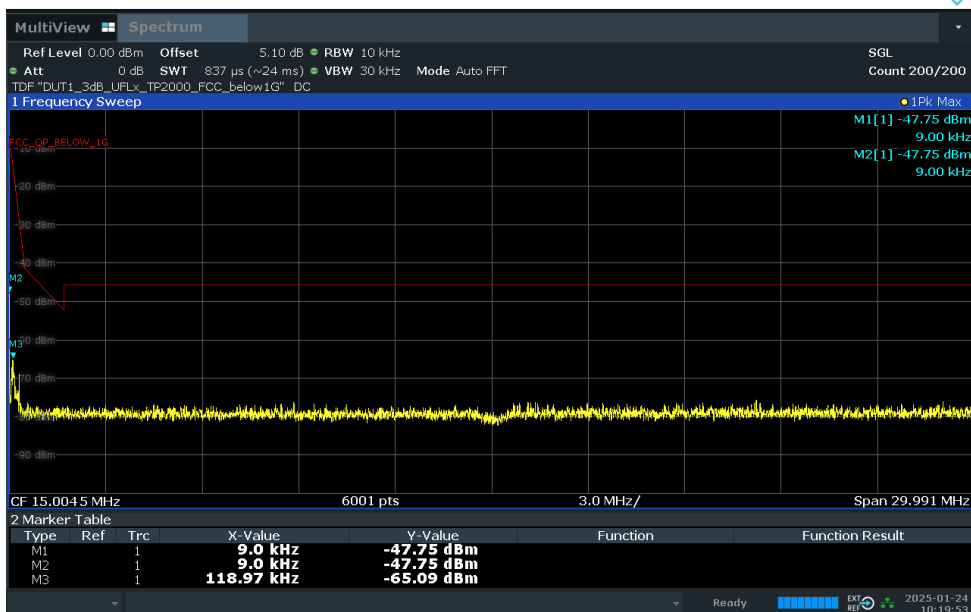
When no clear peaks were found in the plots, the tested frequencies are given with "-" instead of values in the table above.

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

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

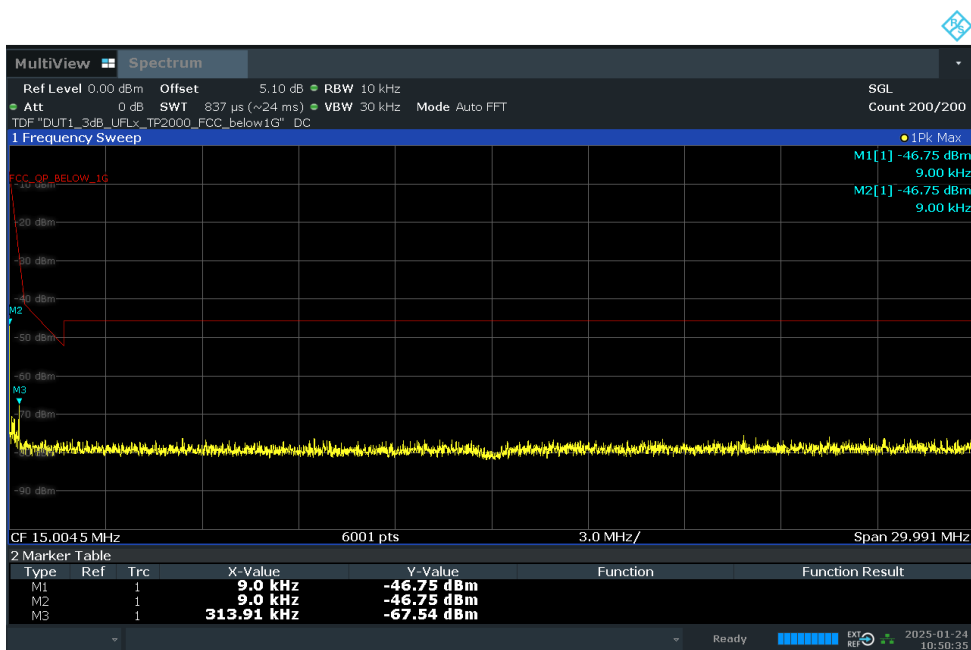
Conducted Measurements

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 9kHz - 30MHz, Subband = U-NII-1 (S01_AC01)



10:19:54 AM 01/24/2025

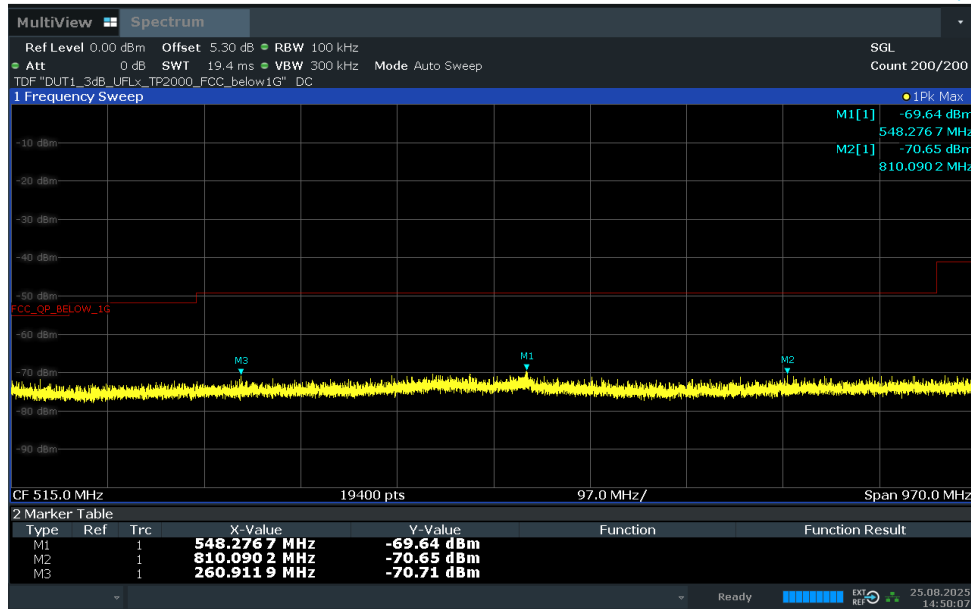
Port A



10:50:36 AM 01/24/2025

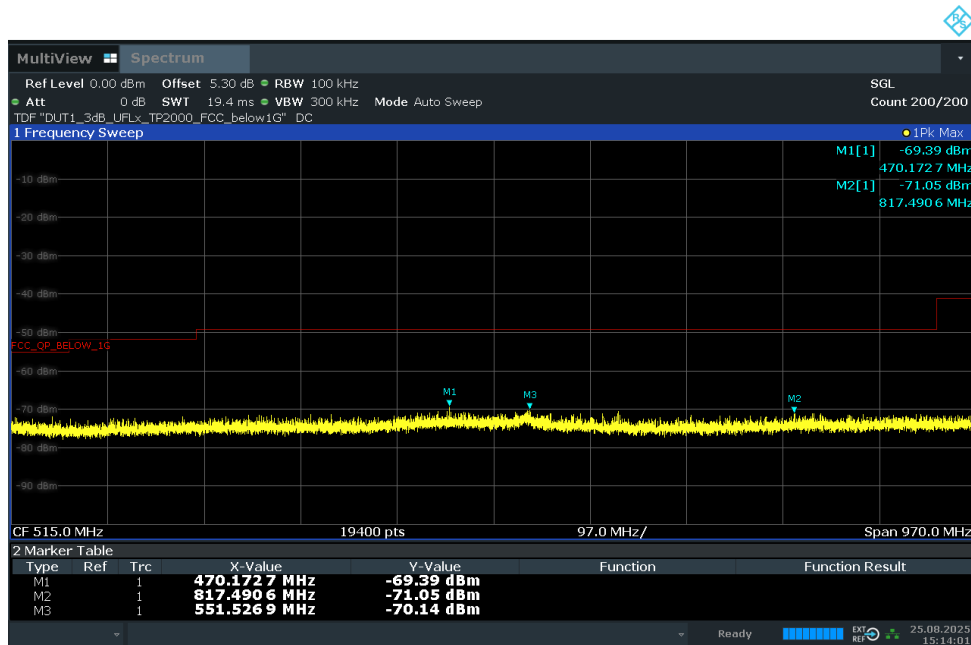
Port B

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 30MHz - 1GHz, Subband = U-NII-1 (S01_AC01)



14:50:07 25.08.2025

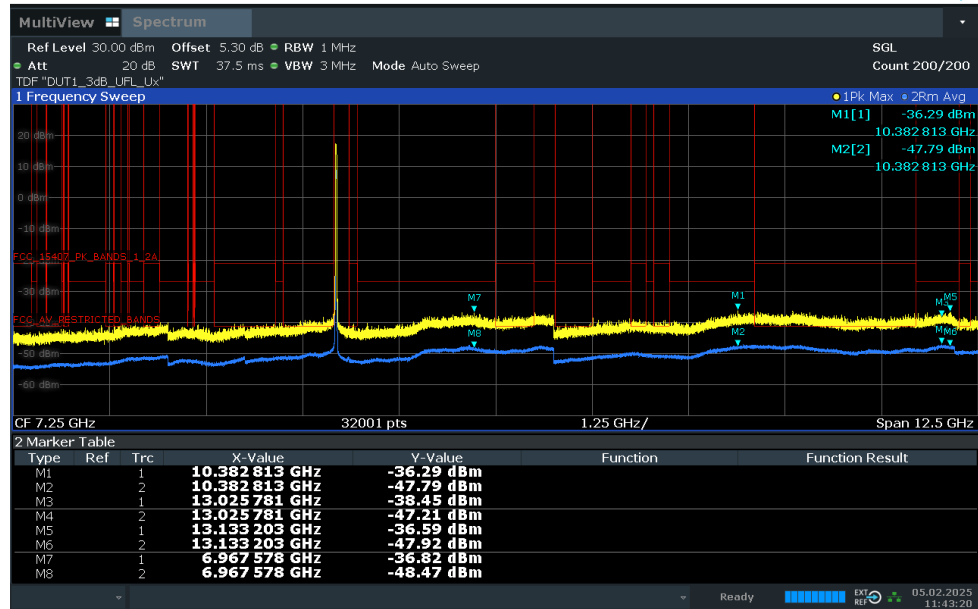
Port A



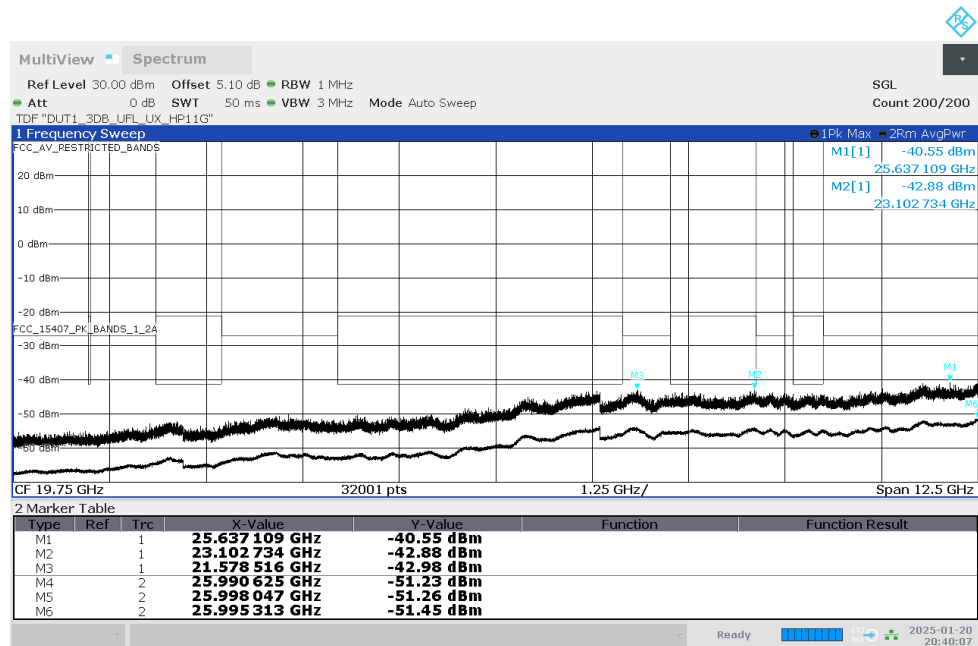
15:14:02 25.08.2025

Port B

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 1GHz - 26GHz, Subband = U-NII-1 (S01_AC01)

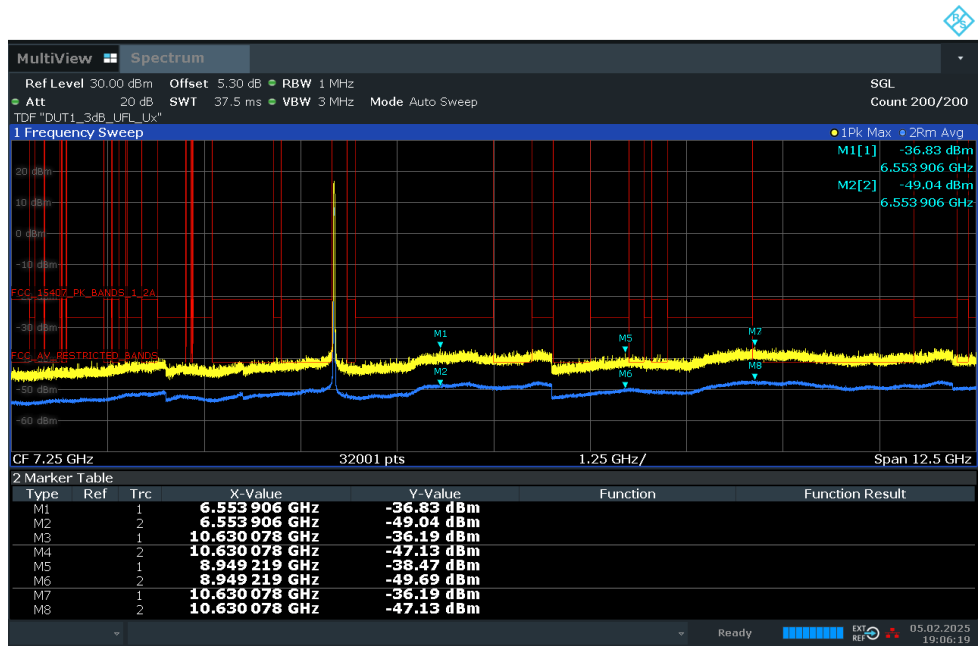


11:43:22 05.02.2025

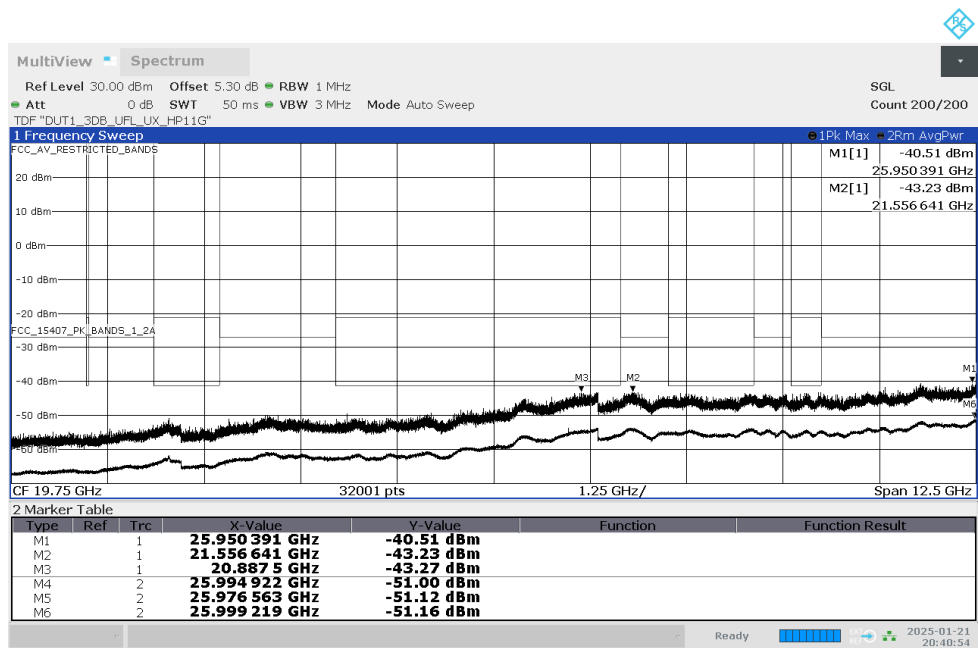


08:40:08 PM 01/20/2025

Port A



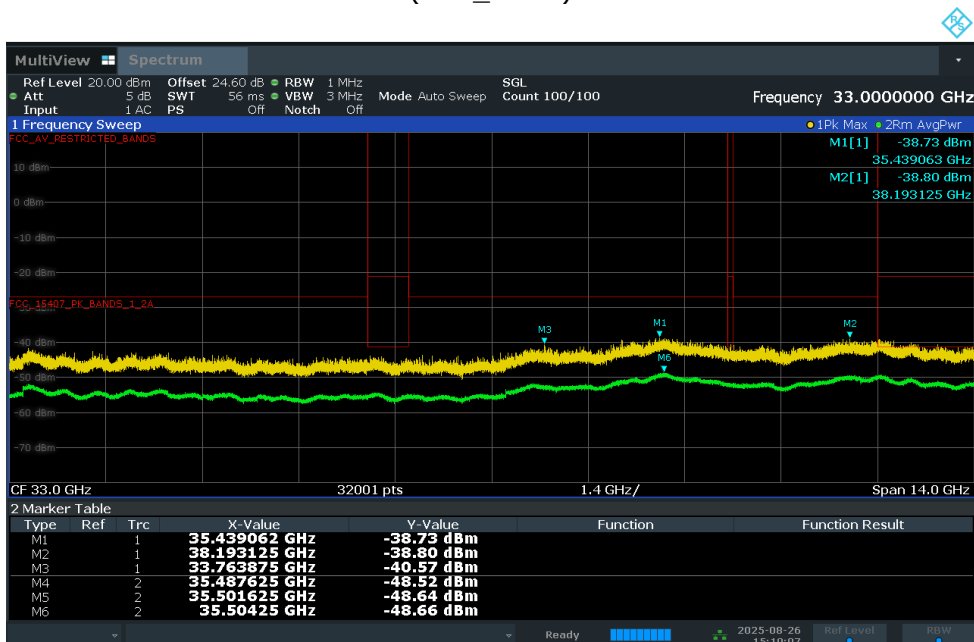
19:06:19 05.02.2025



08:40:54 PM 01/21/2025

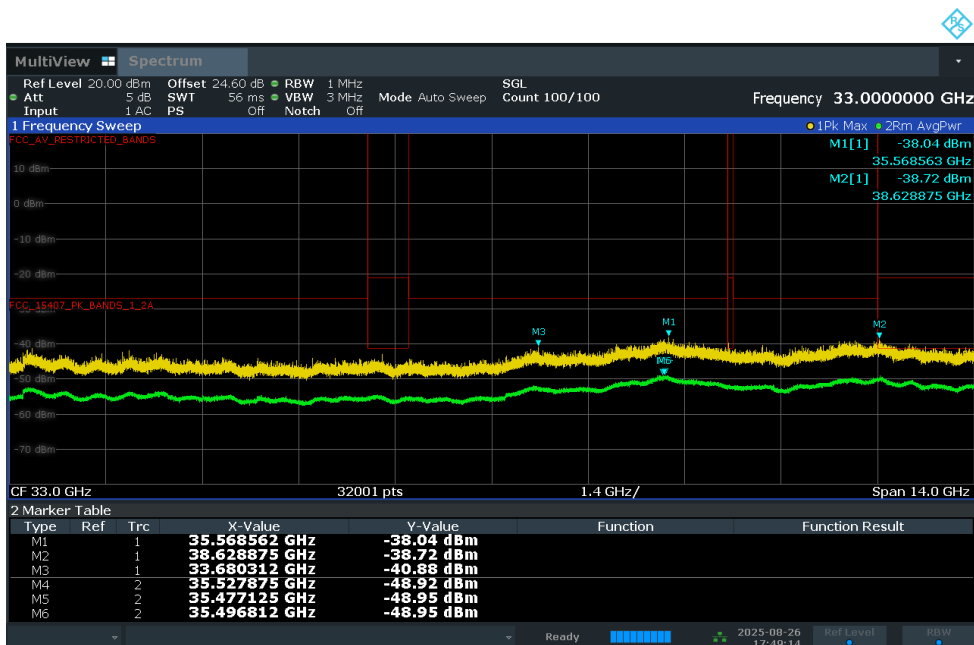
Port B

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 26GHz - 40GHz, Subband = U-NII-1 (S01_AC01)



03:19:07 PM 08/26/2025

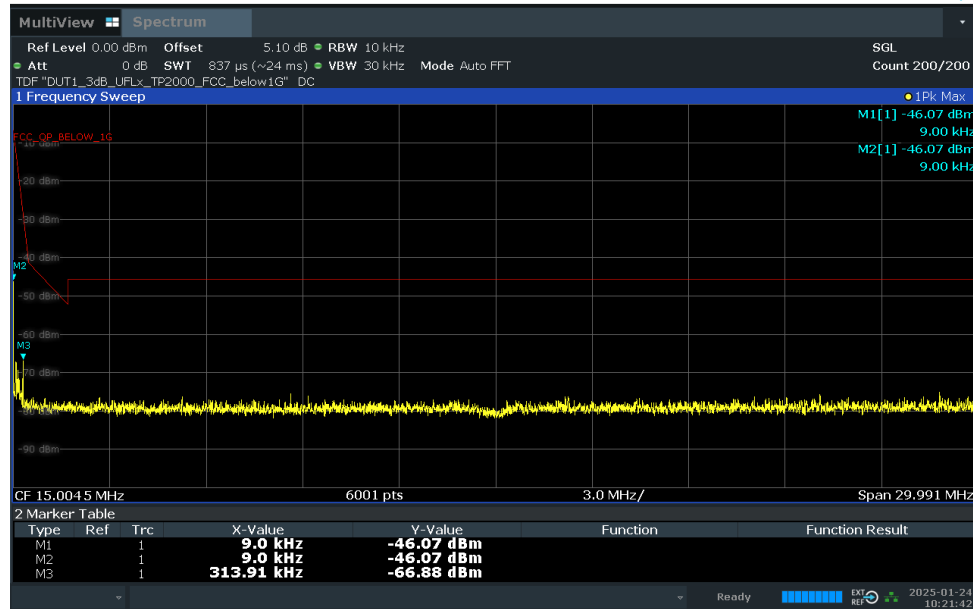
Port A



05:49:15 PM 08/26/2025

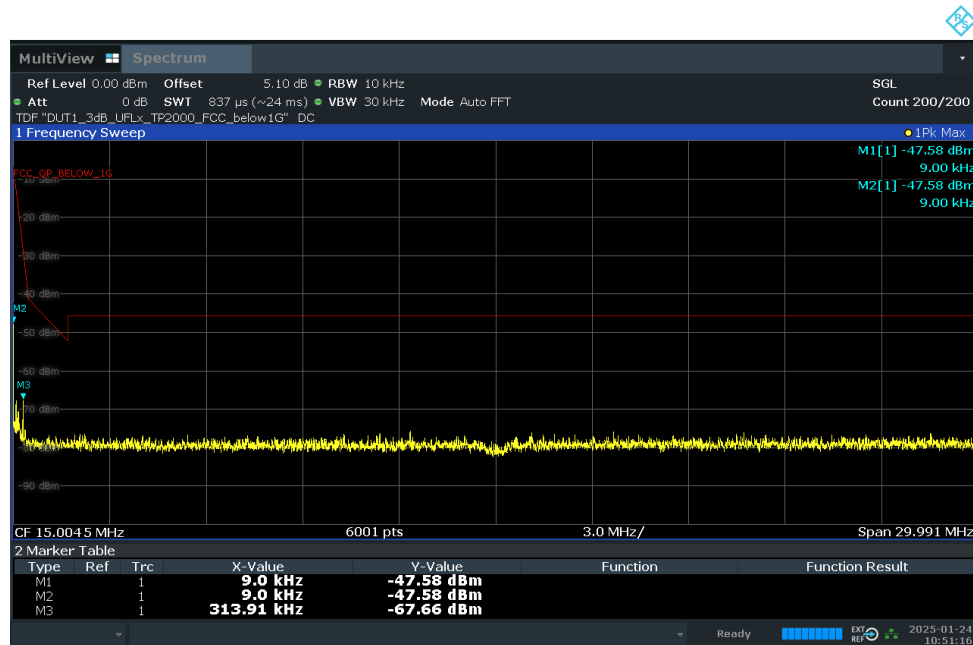
Port B

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 9kHz - 30MHz, Subband = U-NII-1 (S01_AC01)



10:21:43 AM 01/24/2025

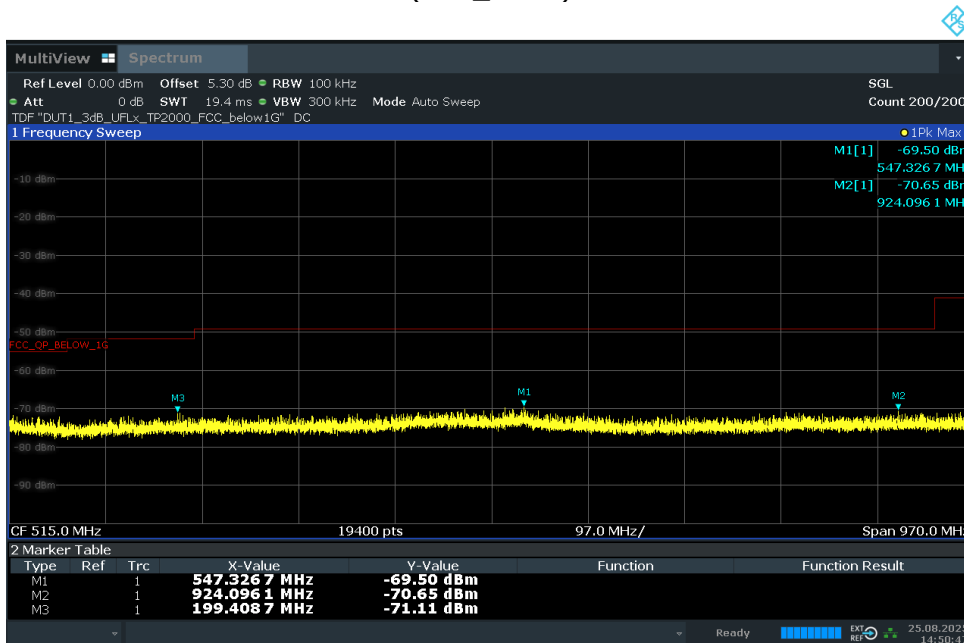
Port A



10:51:16 AM 01/24/2025

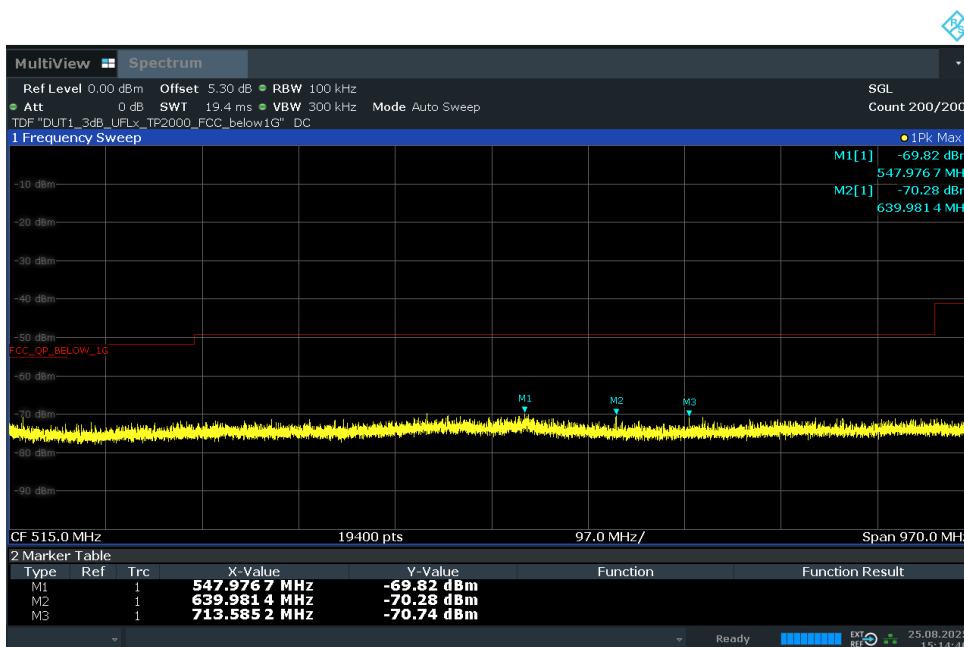
Port B

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 30MHz - 1GHz, Subband = U-NII-1 (S01_AC01)



14:50:47 25.08.2025

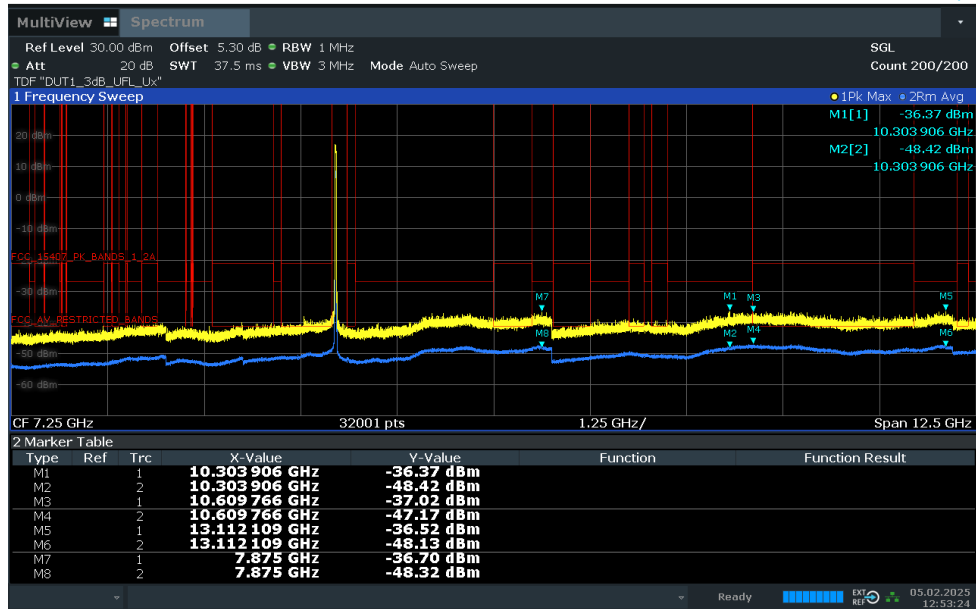
Port A



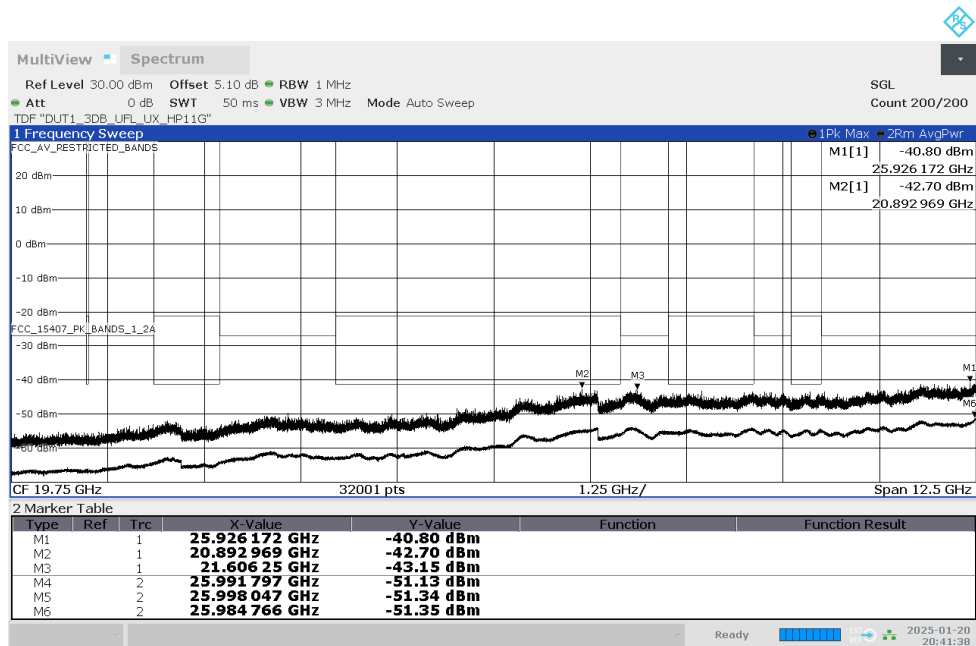
15:14:41 25.08.2025

Port B

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 1GHz - 26GHz, Subband = U-NII-1 (S01_AC01)

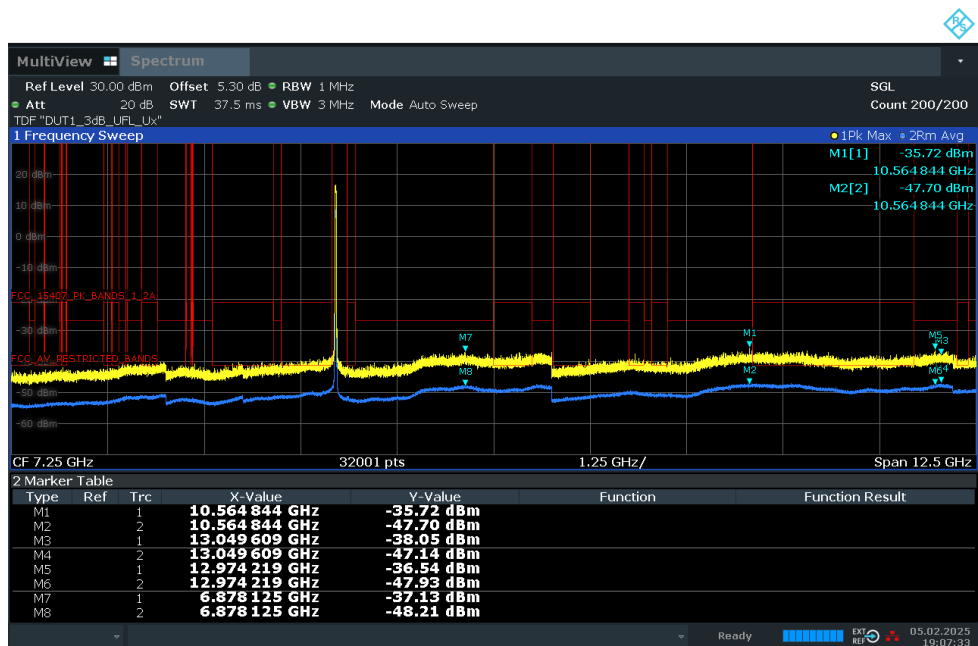


12:53:24 05.02.2025

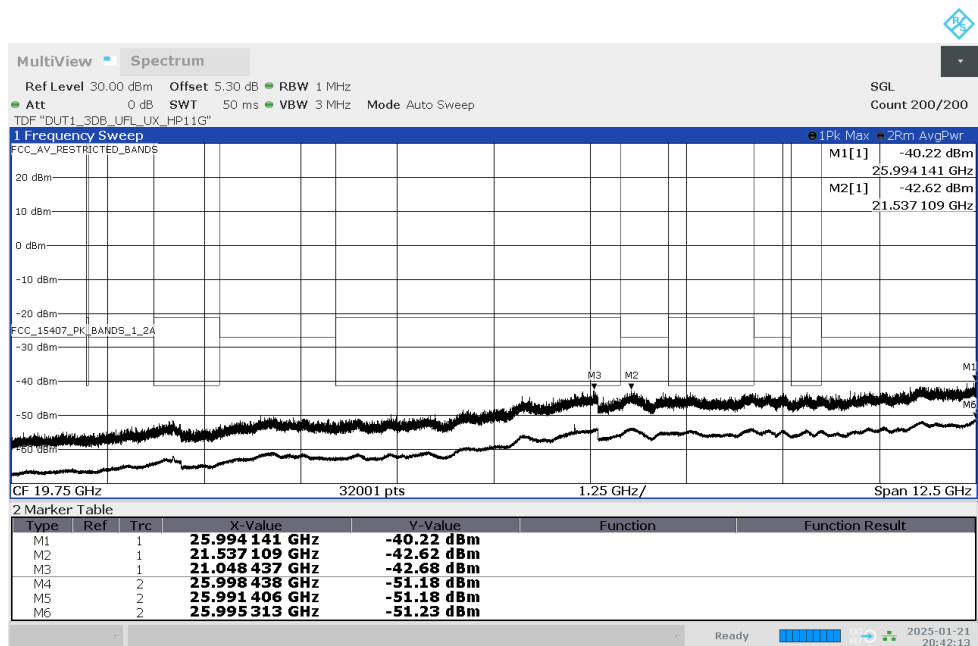


08:41:38 PM 01/20/2025

Port A



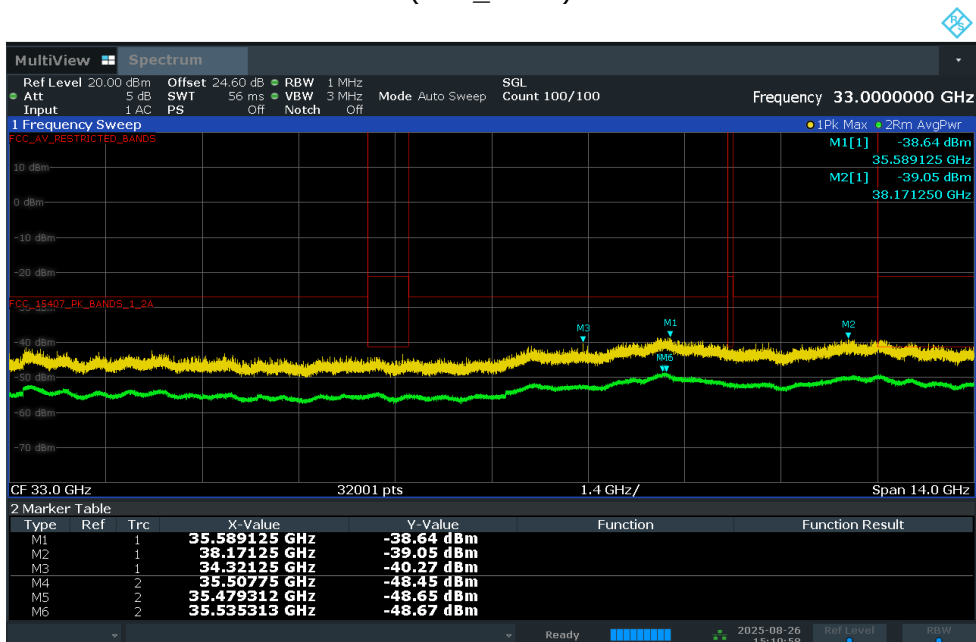
19:07:33 05.02.2025



08:42:14 PM 01/21/2025

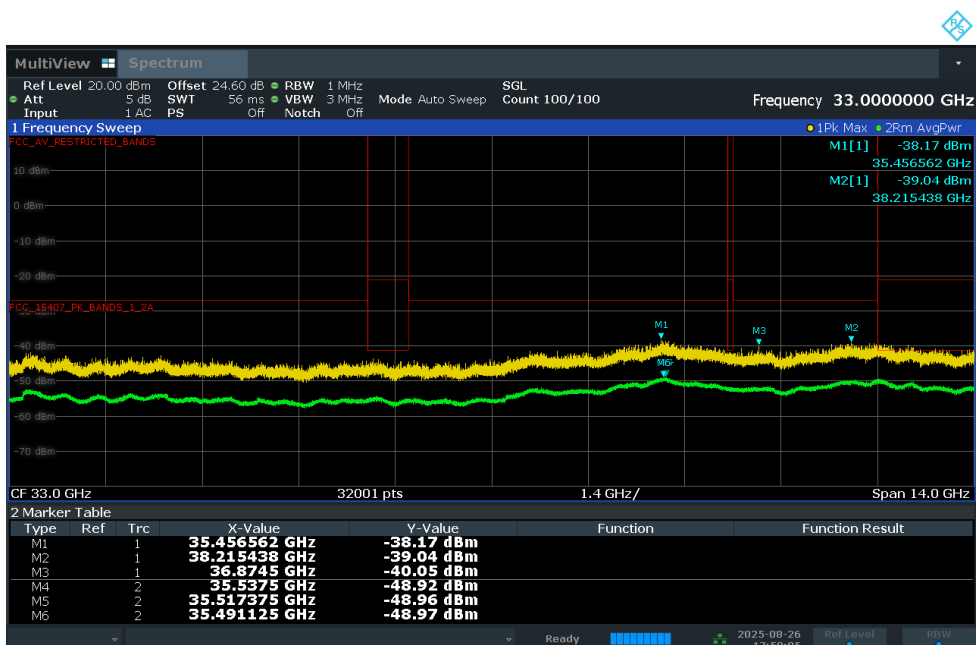
Port B

Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 26GHz - 40GHz, Subband = U-NII-1 (S01_AC01)



03:19:58 PM 08/26/2025

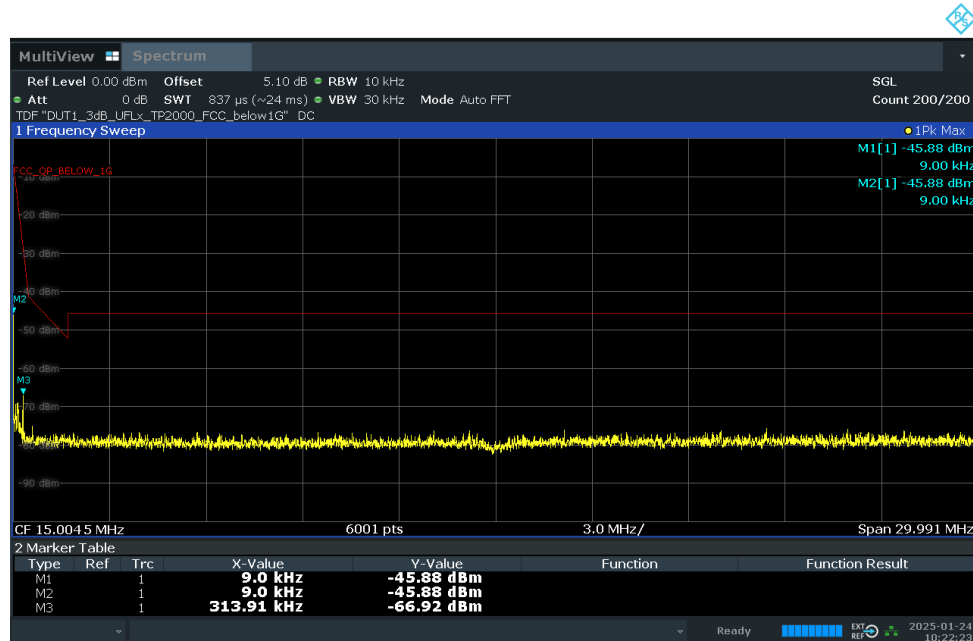
Port A



05:50:06 PM 08/26/2025

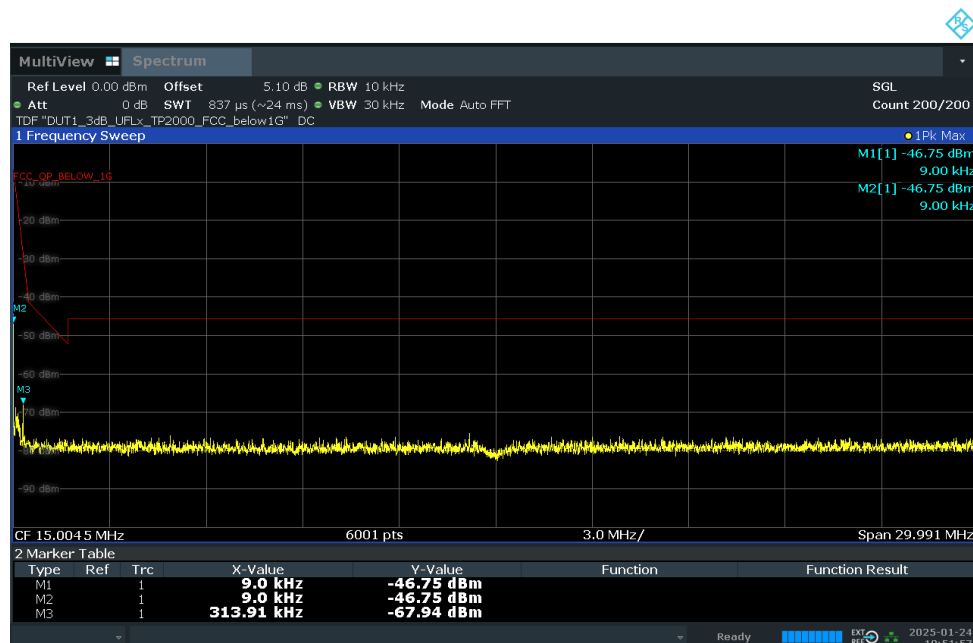
Port B

Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 9kHz - 30MHz, Subband = U-NII-1 (S01_AC01)



10:22:24 AM 01/24/2025

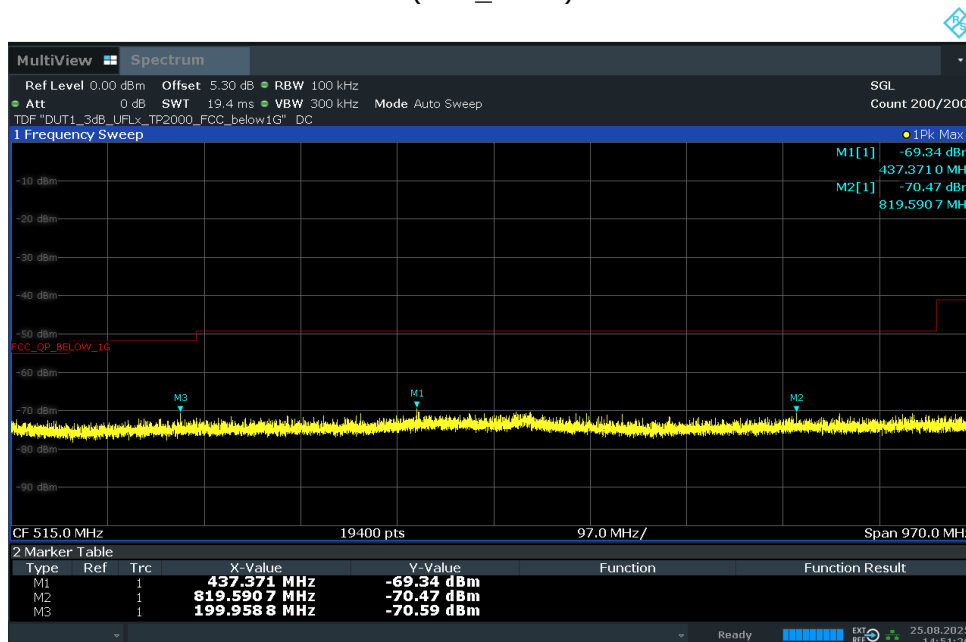
Port A



10:51:57 AM 01/24/2025

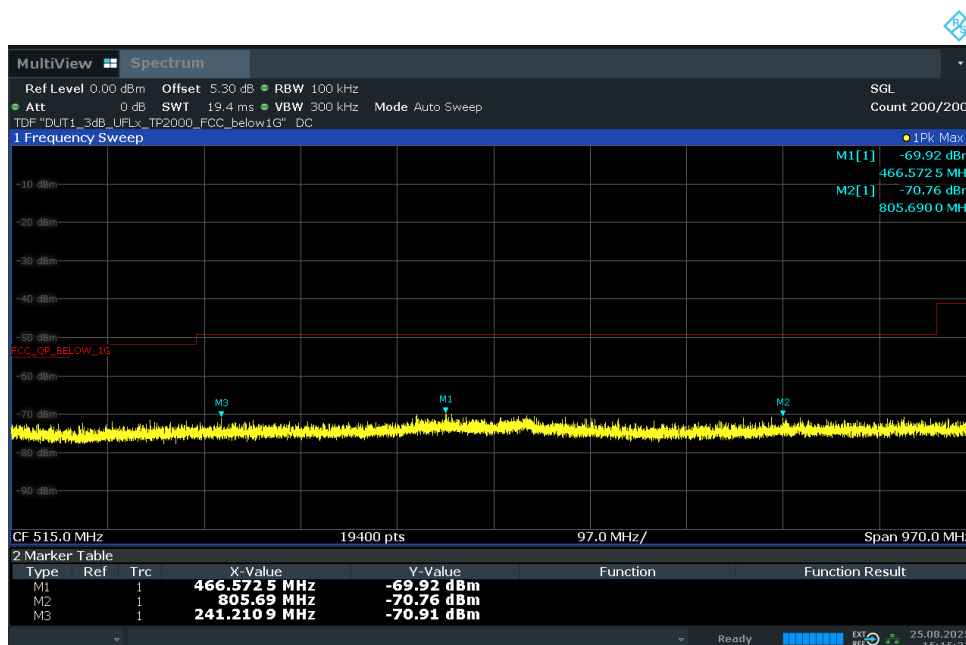
Port B

Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 30MHz - 1GHz, Subband = U-NII-1 (S01_AC01)



14:51:27 25.08.2025

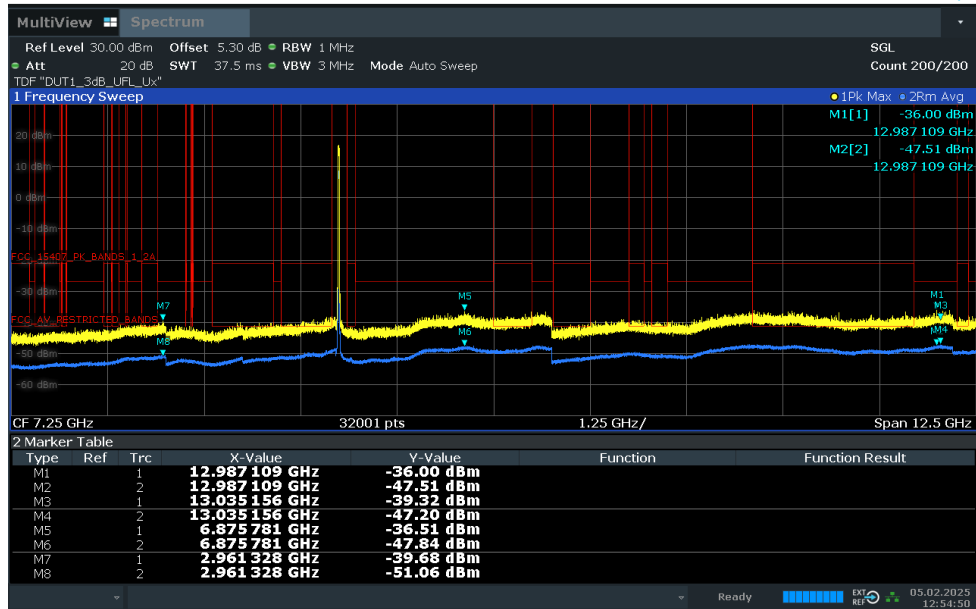
Port A



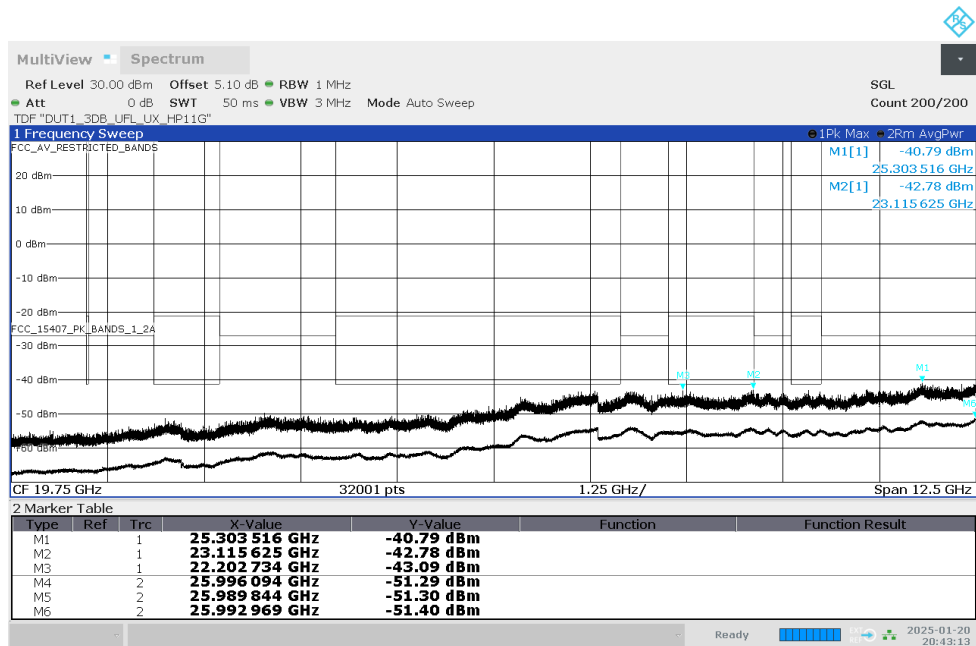
15:15:22 25.08.2025

Port B

Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 1GHz - 26GHz, Subband = U-NII-1 (S01_AC01)

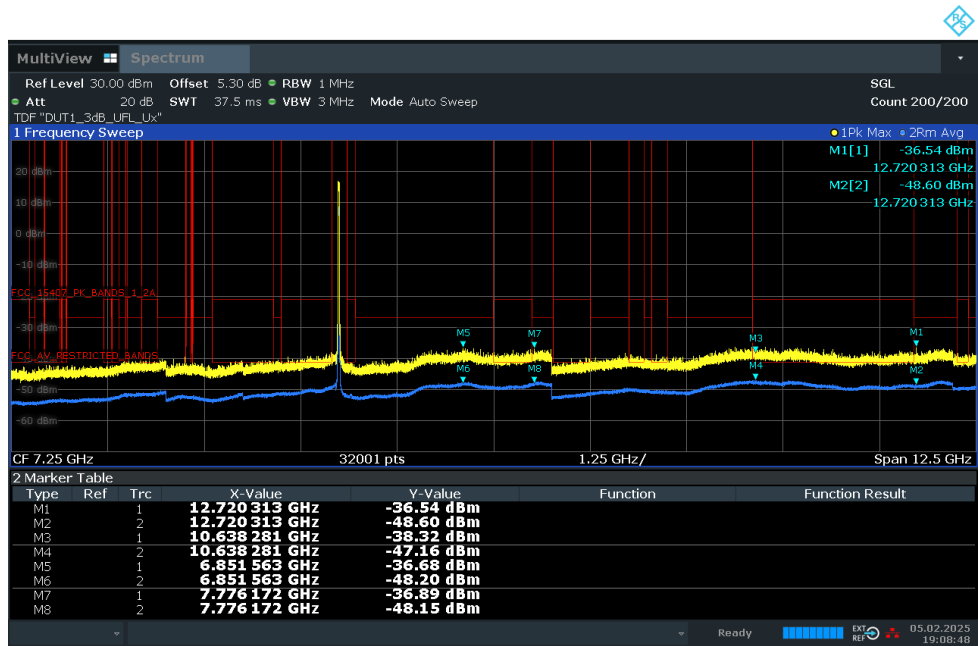


12:54:51 05.02.2025

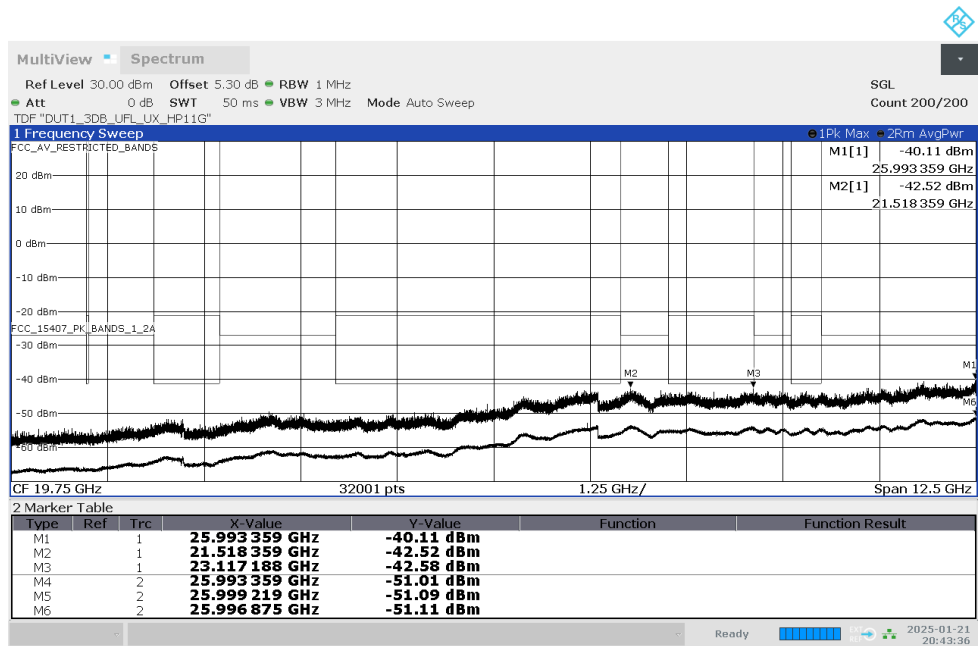


08:43:14 PM 01/20/2025

Port A



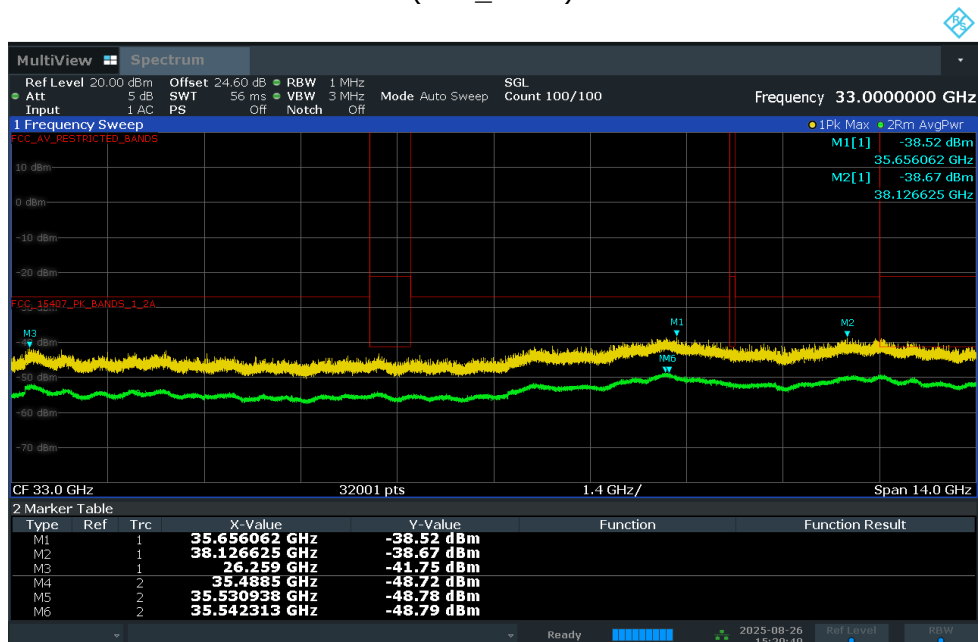
19:08:48 05.02.2025



08:43:36 PM 01/21/2025

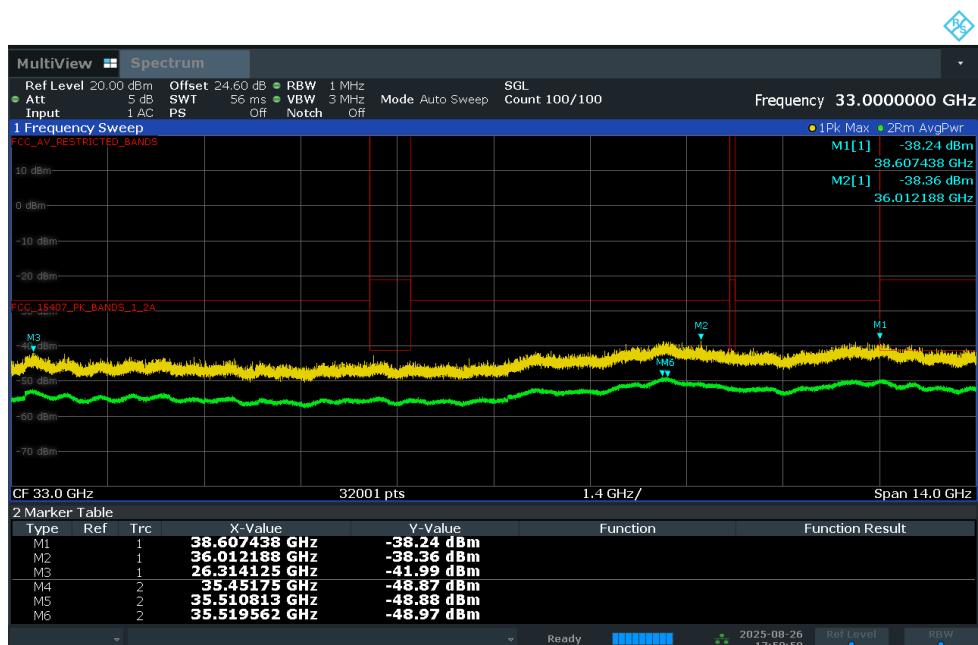
Port B

Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 26GHz - 40GHz, Subband = U-NII-1 (S01_AC01)



03:20:50 PM 08/26/2025

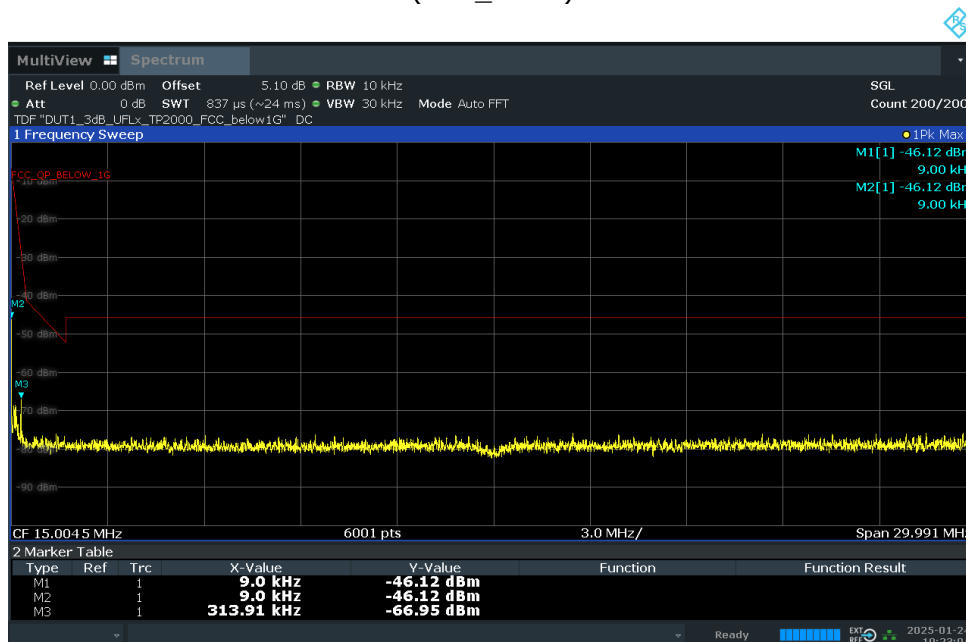
Port A



05:51:00 PM 08/26/2025

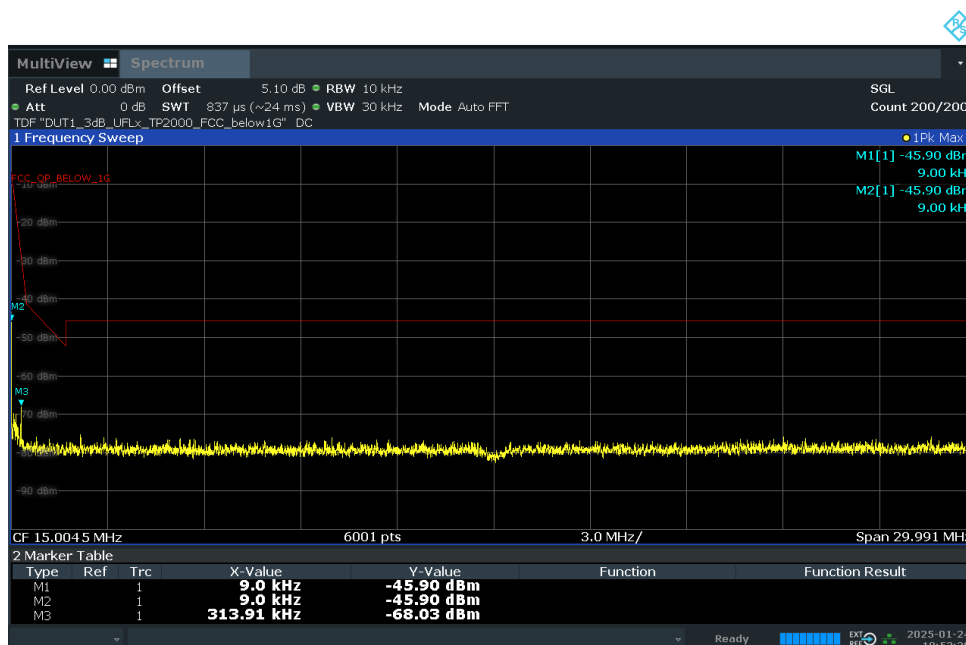
Port B

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 9kHz - 30MHz, Subband = U-NII-2A (S01_AC01)



10:23:04 AM 01/24/2025

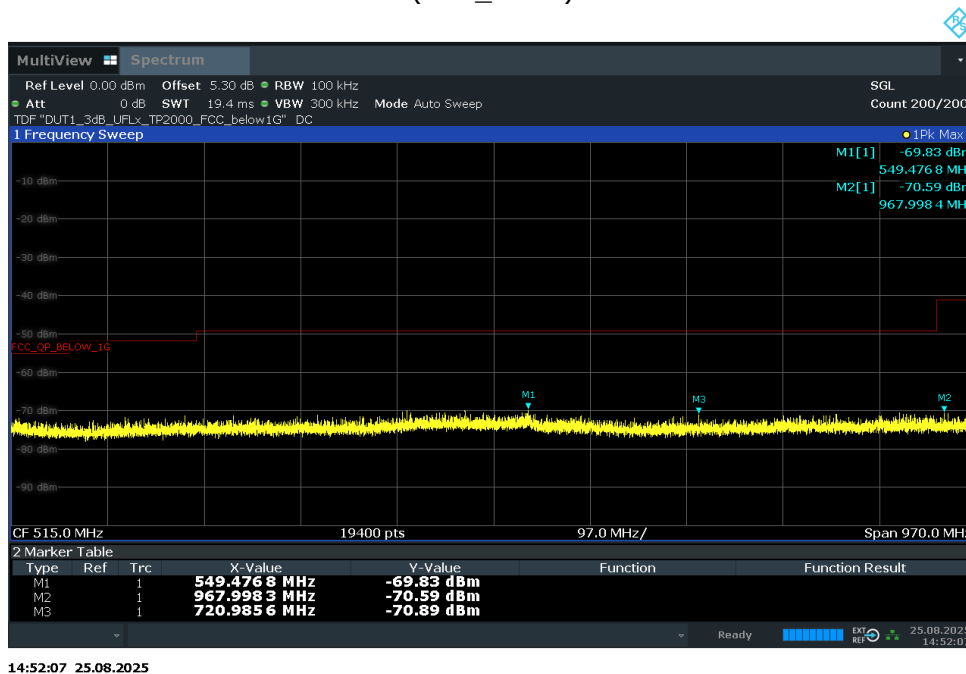
Port A



10:52:39 AM 01/24/2025

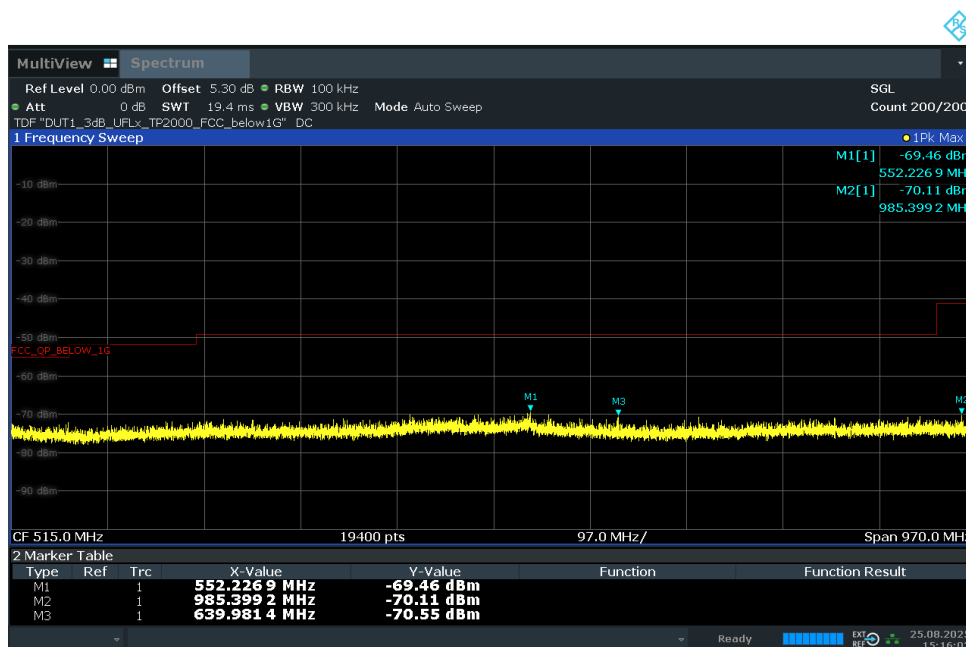
Port B

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 30MHz - 1GHz, Subband = U-NII-2A (S01_AC01)



14:52:07 25.08.2025

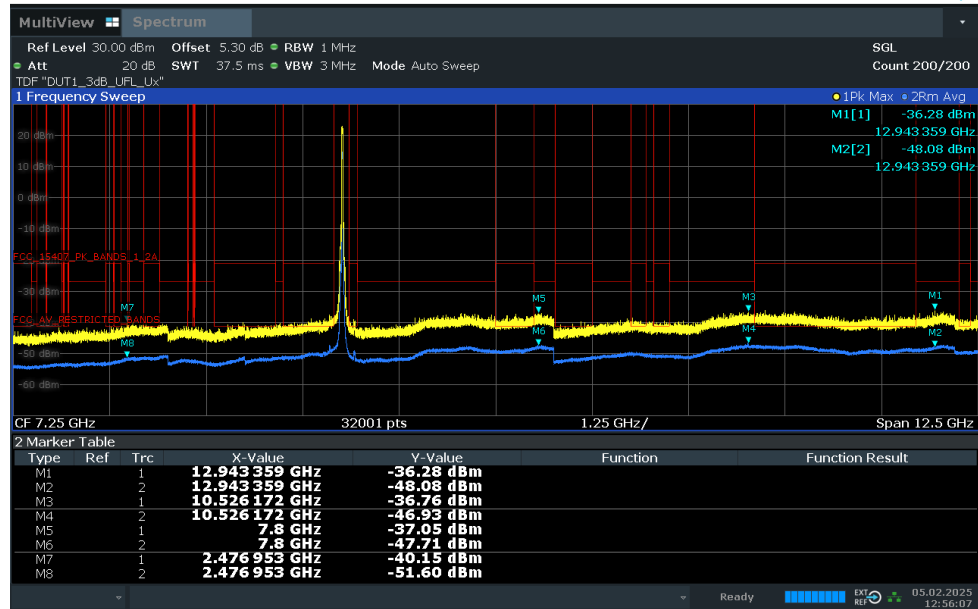
Port A



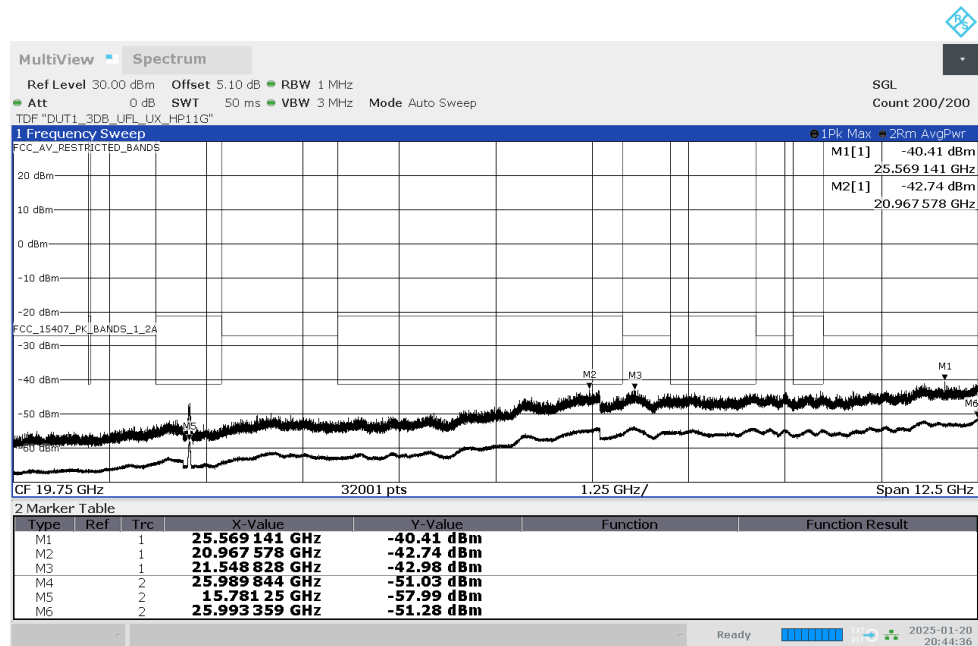
15:16:02 25.08.2025

Port B

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 1GHz - 26GHz, Subband = U-NII-2A (S01_AC01)



12:56:08 05.02.2025



08:44:36 PM 01/20/2025

Port A