

04:55:09 PM 11/12/2024

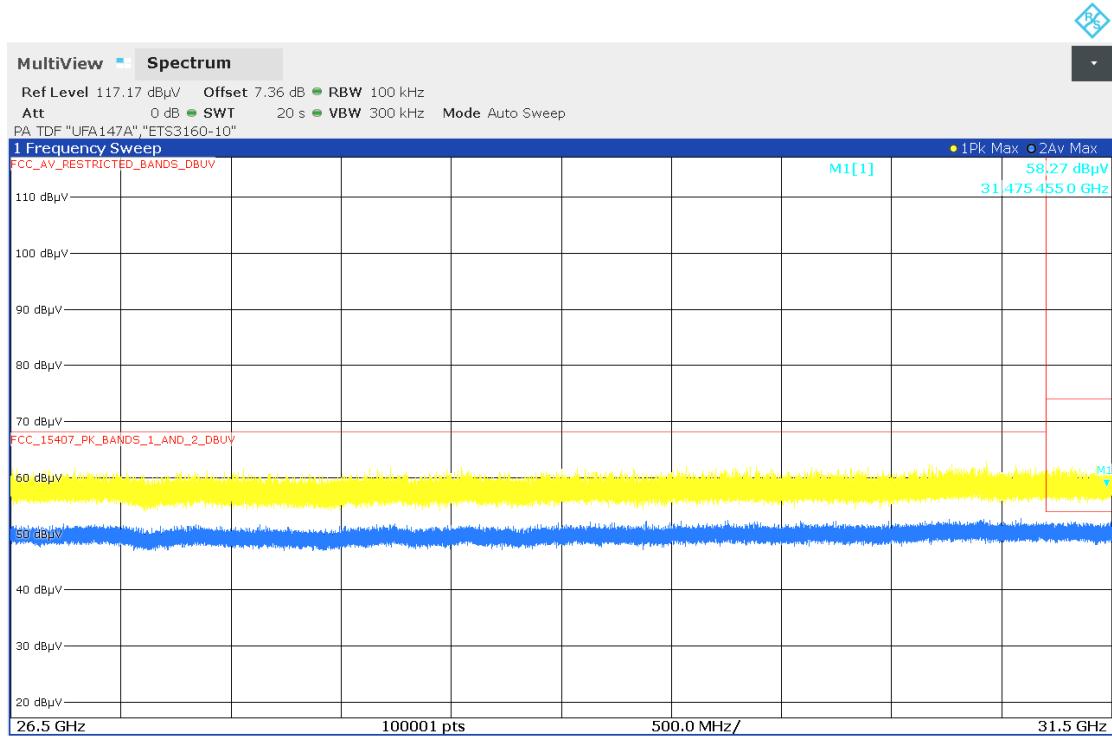
36.5 GHz – 38.5 GHz



04:56:28 PM 11/12/2024

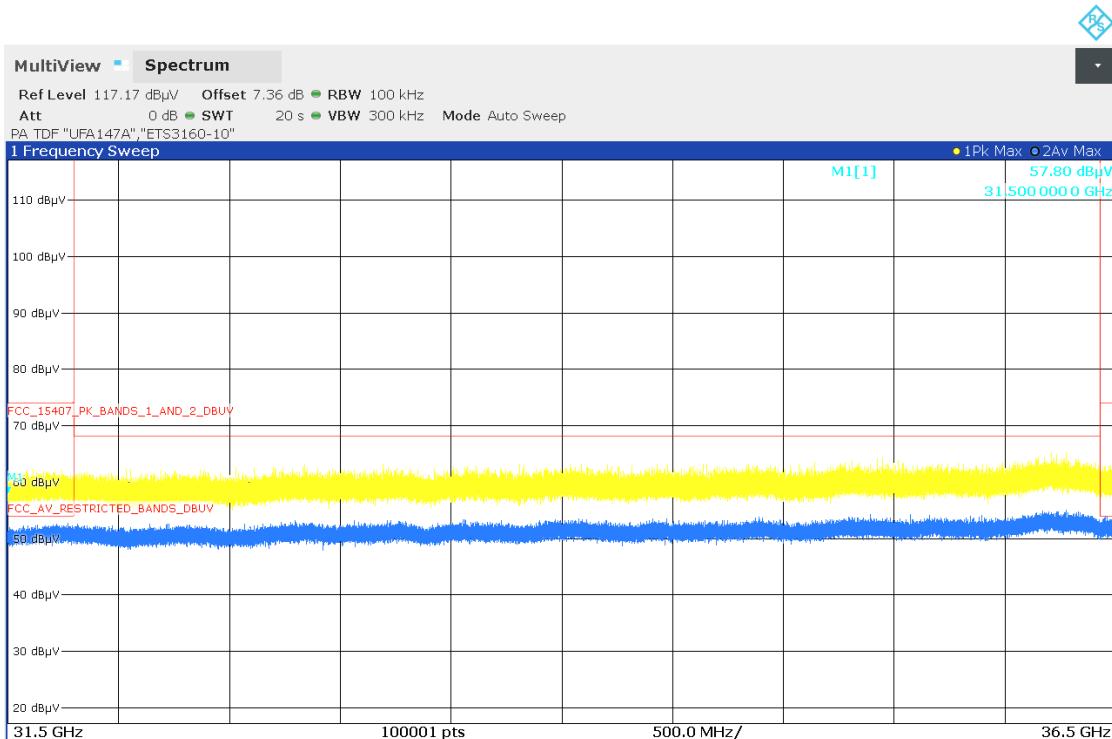
38.5 GHz – 40.0 GHz

Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-3,
 Frequency Range = 26.5 GHz -40 GHz, Polarisation = horizontal
 (S02_AO04)



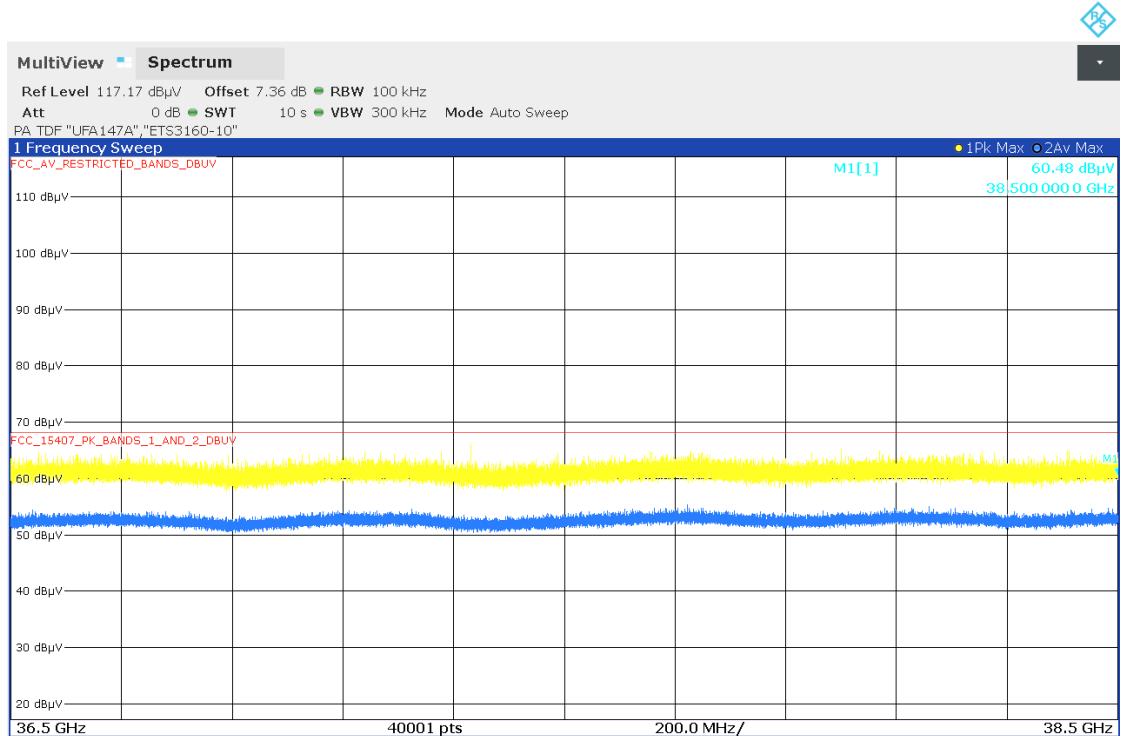
05:02:47 PM 11/12/2024

26.5 GHz – 31.5 GHz



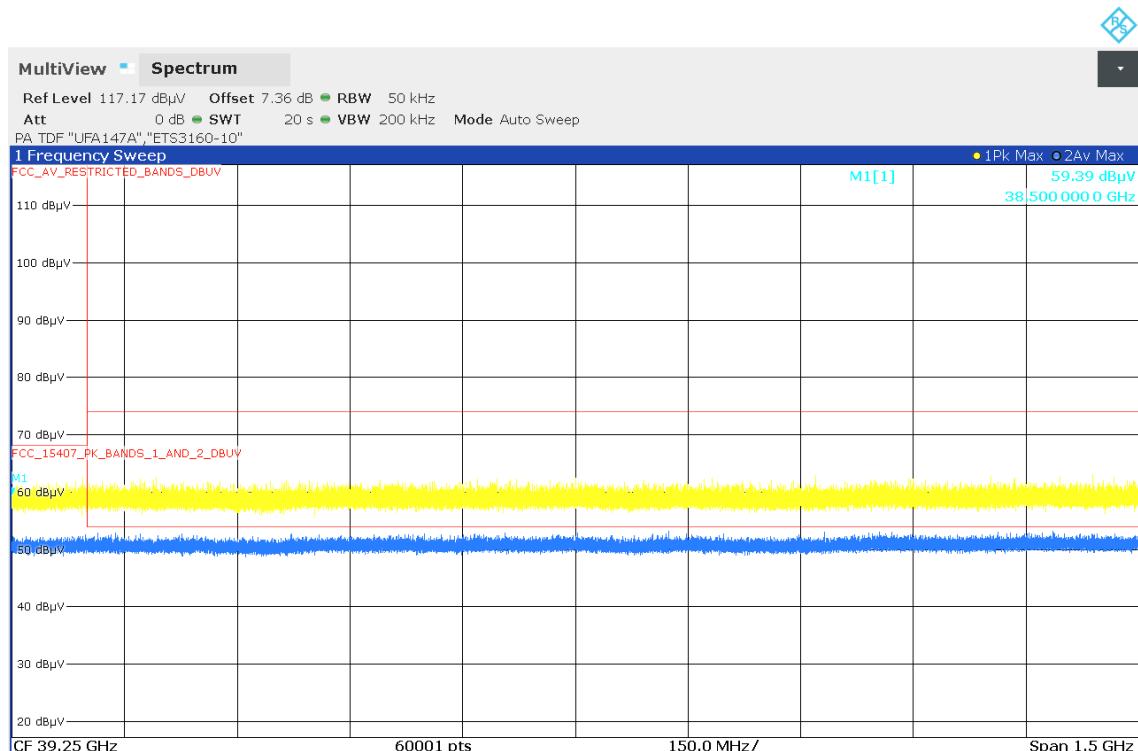
05:01:08 PM 11/12/2024

31.5 GHz – 36.5 GHz



04:59:45 PM 11/12/2024

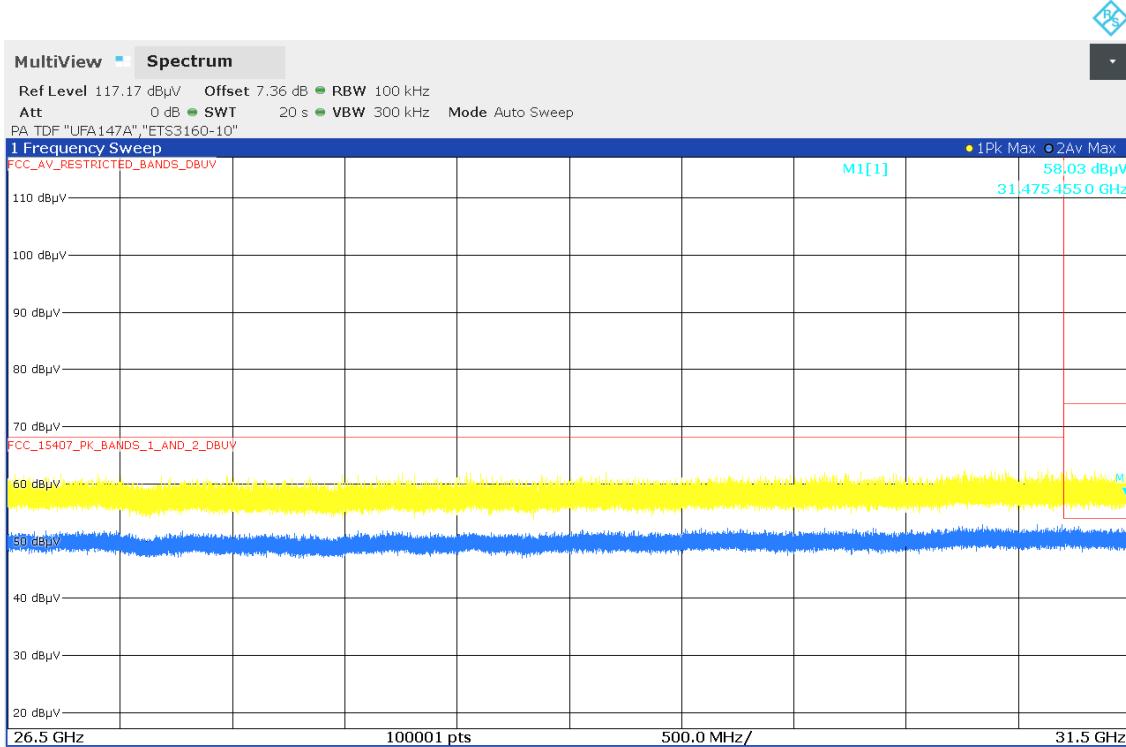
36.5 GHz – 38.5 GHz



04:58:29 PM 11/12/2024

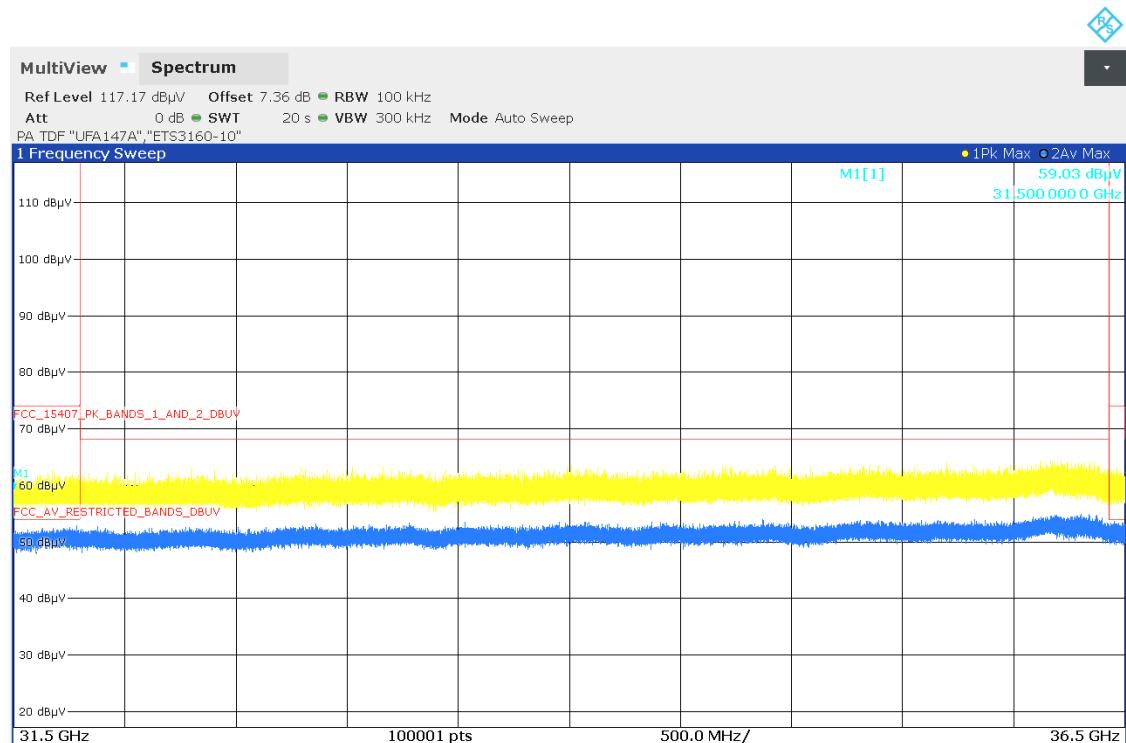
38.5 GHz – 40.0 GHz

Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-1,
 Frequency Range = 26.5 GHz - 40 GHz, Polarisation = horizontal
 (S02_A004)



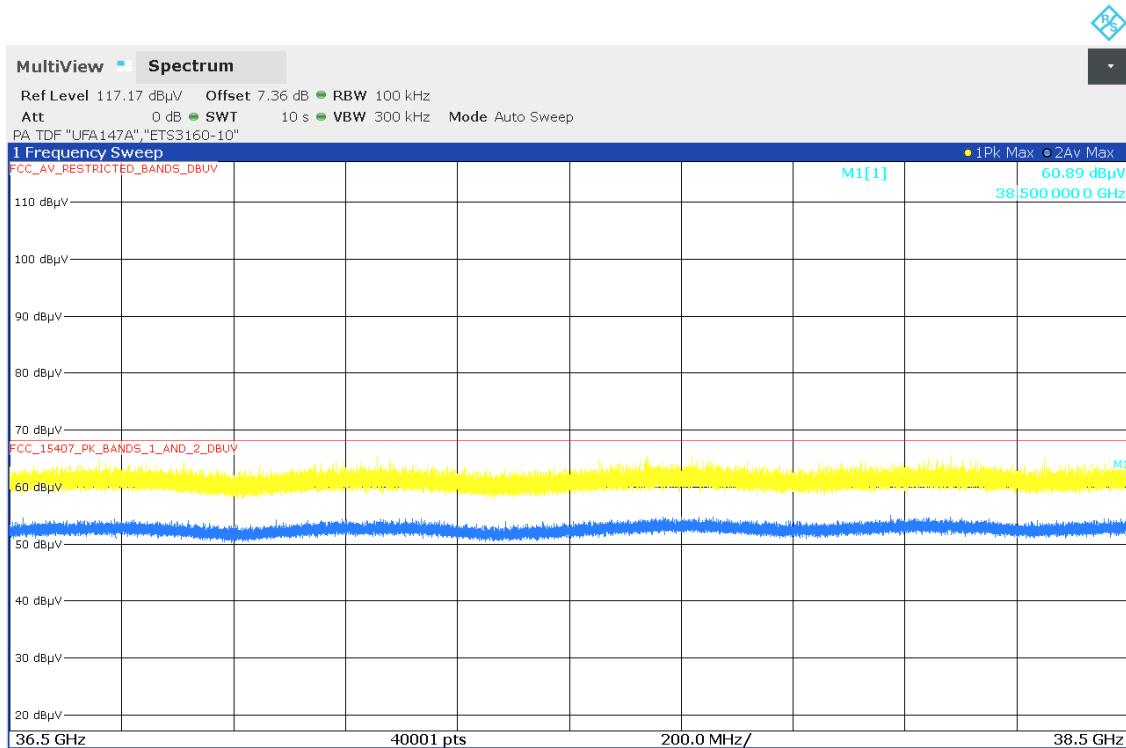
04:50:07 PM 11/12/2024

26.5 GHz – 31.5 GHz



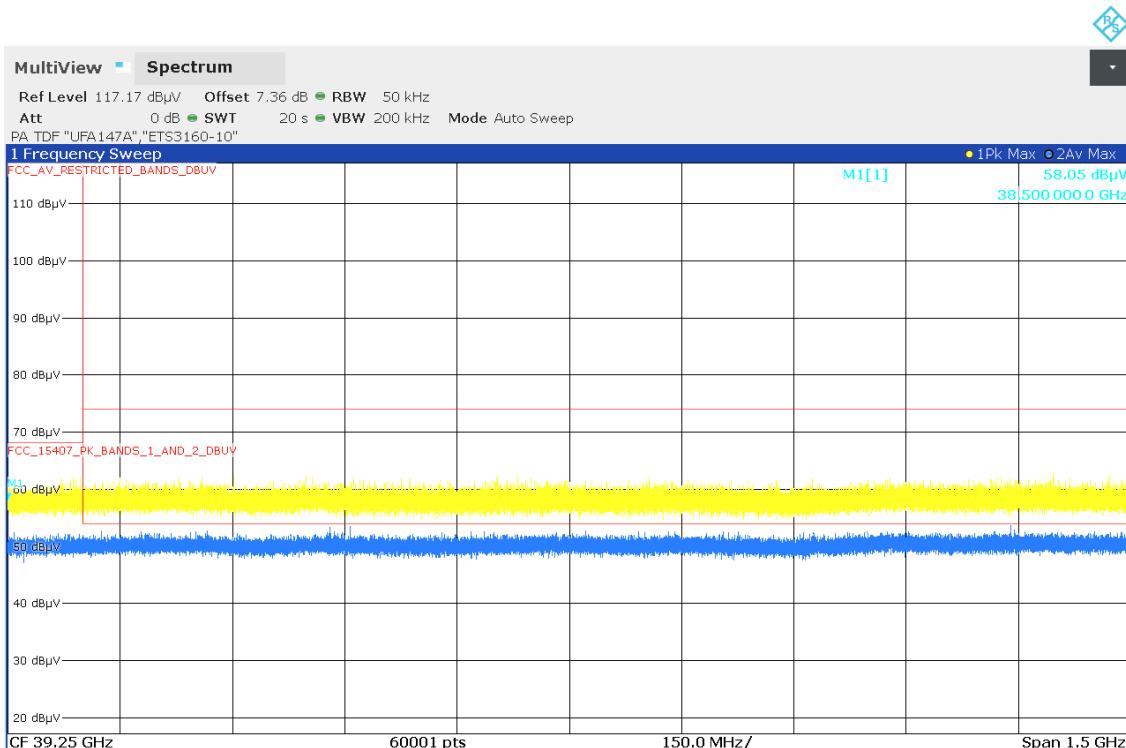
04:48:23 PM 11/12/2024

31.5 GHz – 36.5 GHz



04:46:57 PM 11/12/2024

36.5 GHz – 38.5 GHz



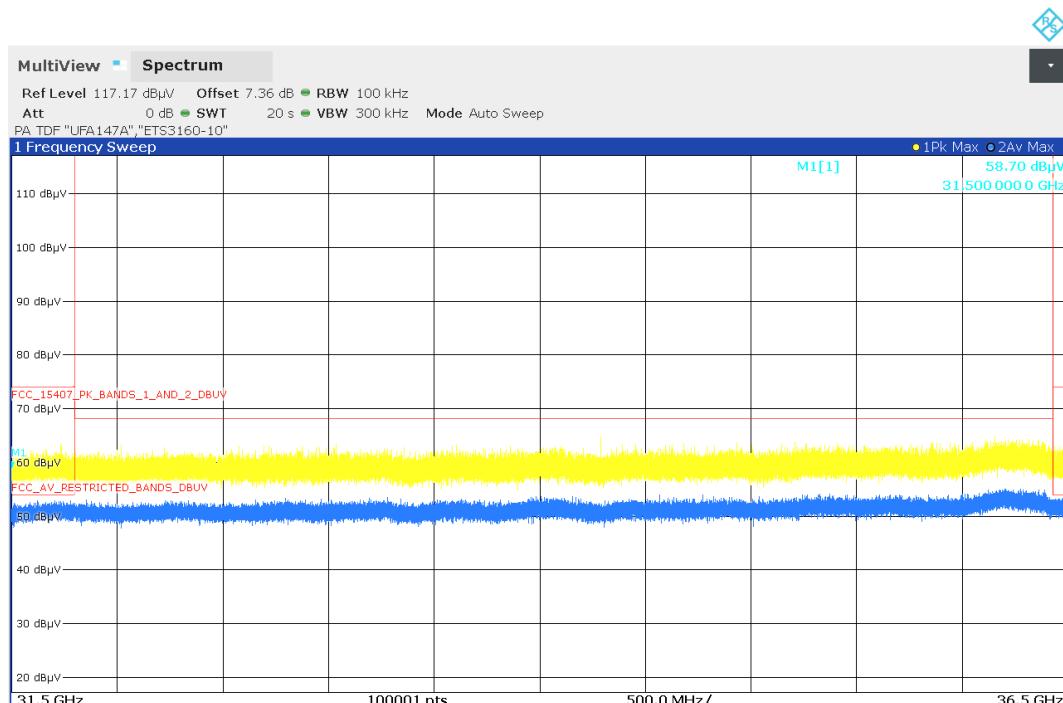
04:44:24 PM 11/12/2024

38.5 GHz – 40.0 GHz

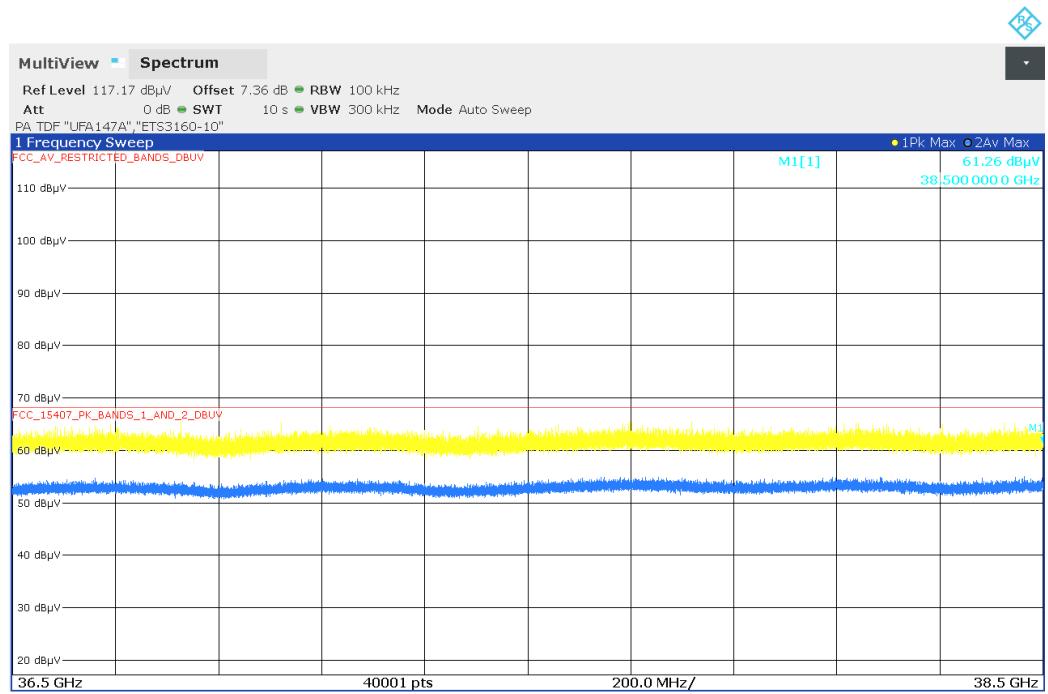
Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-3,
 Frequency Range = 26.5 GHz - 40 GHz, Polarisation = horizontal
 (S02_AO04)



26.5 GHz – 31.5 GHz



31.5 GHz – 36.5 GHz



5.3.5 TEST PROTOCOL - NÜRNBERG

Ambient temperature: 19 °C
 Air Pressure: 986 hPa
 Humidity: 50 %

WLAN a-Mode; 20 MHz; 6 Mbit/s
 Applied duty cycle correction (AV): 0.6 dB

Ch. No.	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dB μ V/m]	Detector	RBW [kHz]	Limit [dB μ V/m]	Margin [dB]	Limit Type
-	-	-	-	-	-	-	-	-

WLAN n-Mode; 20 MHz; MCS0
 Applied duty cycle correction (AV): 0.5 dB

Ch. No.	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dB μ V/m]	Detector	RBW [kHz]	Limit [dB μ V/m]	Margin [dB]	Limit Type
-	-	-	-	-	-	-	-	-

WLAN n-Mode; 40 MHz; MCS0
 Applied duty cycle correction (AV): 0.5 dB

Ch. No.	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dB μ V/m]	Detector	RBW [kHz]	Limit [dB μ V/m]	Margin [dB]	Limit Type
-	-	-	-	-	-	-	-	-

WLAN ac-Mode; 20 MHz; MCS0
 Applied duty cycle correction (AV): 0.5 dB

Ch. No.	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dB μ V/m]	Detector	RBW [kHz]	Limit [dB μ V/m]	Margin [dB]	Limit Type
-	-	-	-	-	-	-	-	-

WLAN ac-Mode; 40 MHz; MCS0
 Applied duty cycle correction (AV): 0.5 dB

Ch. No.	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dB μ V/m]	Detector	RBW [kHz]	Limit [dB μ V/m]	Margin [dB]	Limit Type
-	-	-	-	-	-	-	-	-

WLAN ac-Mode; 80 MHz; MCS0
 Applied duty cycle correction (AV): 0.5 dB

Ch. No.	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dB μ V/m]	Detector	RBW [kHz]	Limit [dB μ V/m]	Margin [dB]	Limit Type
-	-	-	-	-	-	-	-	-

WLAN ax-Mode; 20 MHz; MCS0
 Applied duty cycle correction (AV): 1.3 dB

Ch. No.	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dB μ V/m]	Detector	RBW [kHz]	Limit [dB μ V/m]	Margin [dB]	Limit Type
-	-	-	-	-	-	-	-	-

WLAN ax-Mode; 40 MHz; MCS0

Applied duty cycle correction (AV): 1.3 dB

Ch. No.	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dB μ V/m]	Detector	RBW [kHz]	Limit [dB μ V/m]	Margin [dB]	Limit Type
-	-	-	-	-	-	-	-	-

WLAN ax-Mode; 80 MHz; MCS0

Applied duty cycle correction (AV): 1.3 dB

Ch. No.	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dB μ V/m]	Detector	RBW [kHz]	Limit [dB μ V/m]	Margin [dB]	Limit Type
-	-	-	-	-	-	-	-	-

COMMENT:

- There have not found any emissions from the EUT which are higher than the ambient noise in the frequency range 9 kHz – 40 GHz.
- The spectrum analyser transducers "TDF SUCOFLEX 126B", "TDS TS_DUT_CAL" and "TDS UFA147A" contains the attenuation of the used measurement cable.
- The spectrum analyser transducers "HFH2-Z2", "VUBA916", "HF906_001", ETS3160-09", "ETS3160-10" contains the antenna factor of the used measurement antenna.
- The spectrum analyser transducer "AMP_BV_1_40G" contains the amplification of the used Low Noise Amplifier in the frequency range 26.5 GHz – 40.0 GHz.
- For this location no measurement distance correction required, because the measurement distance is equal to the limit distance (3.0 m).

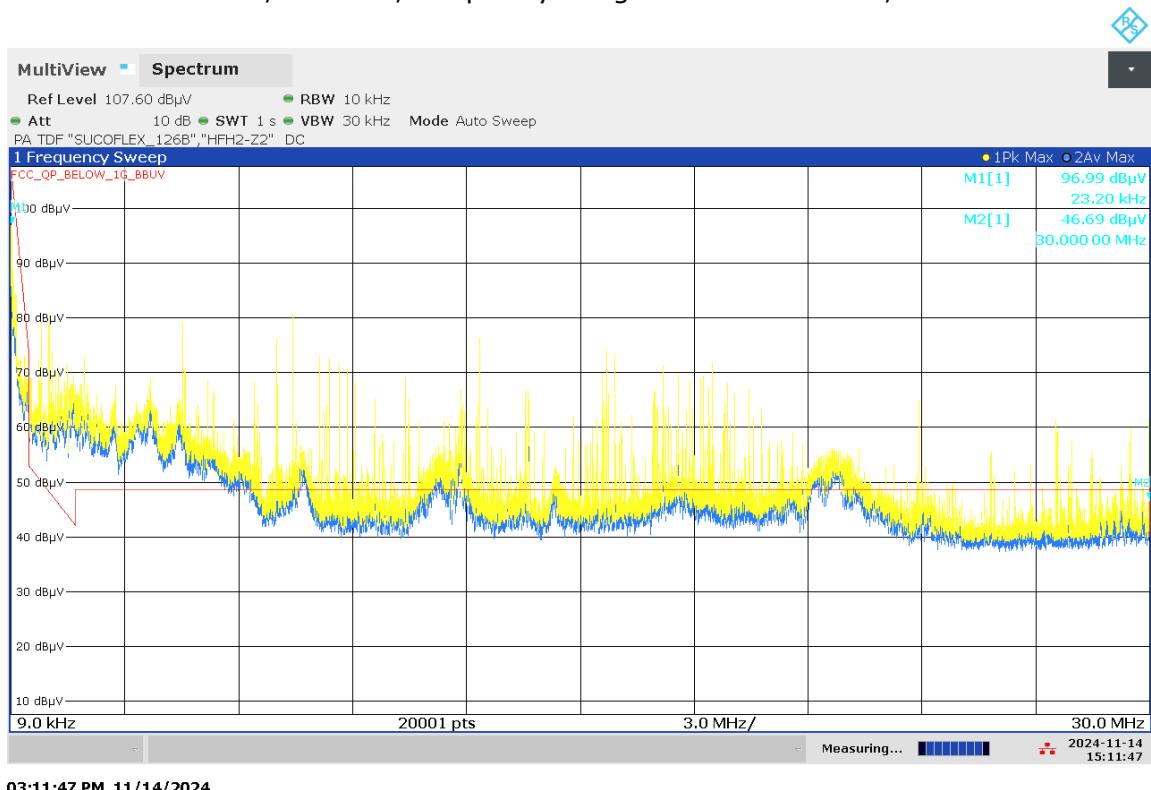
5.3.5.1 RESULTS OF WORST-CASE SEARCH

$D_{\text{STABLE DECREASE}} = 23.0$ m

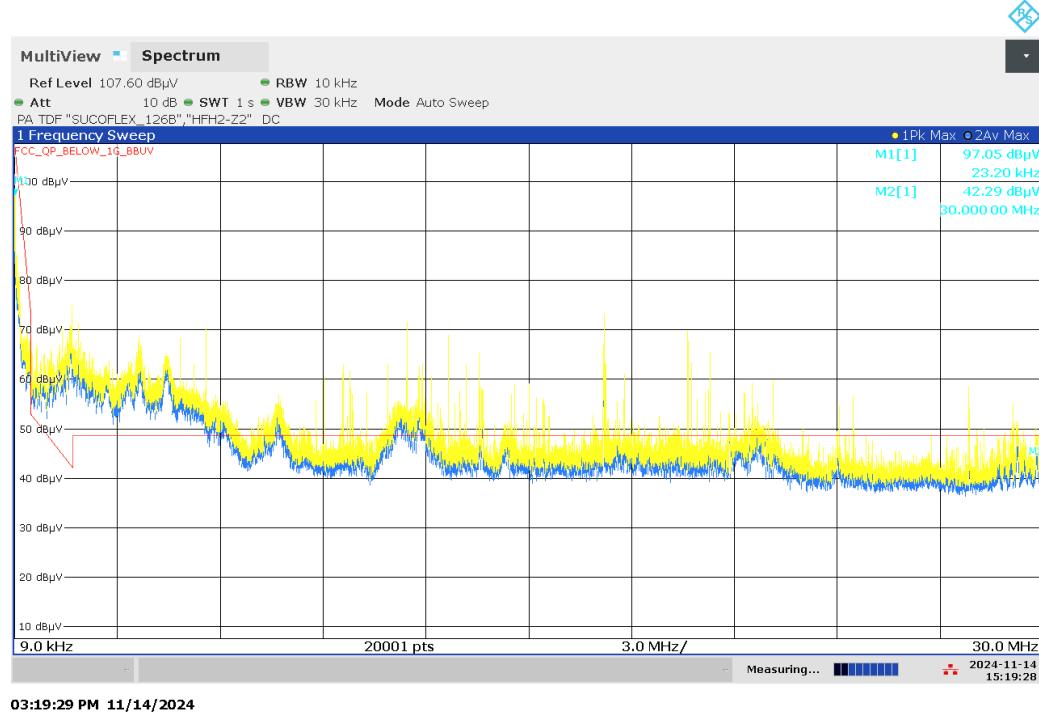
Worst- case receiving antenna polarisation: horizontal

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

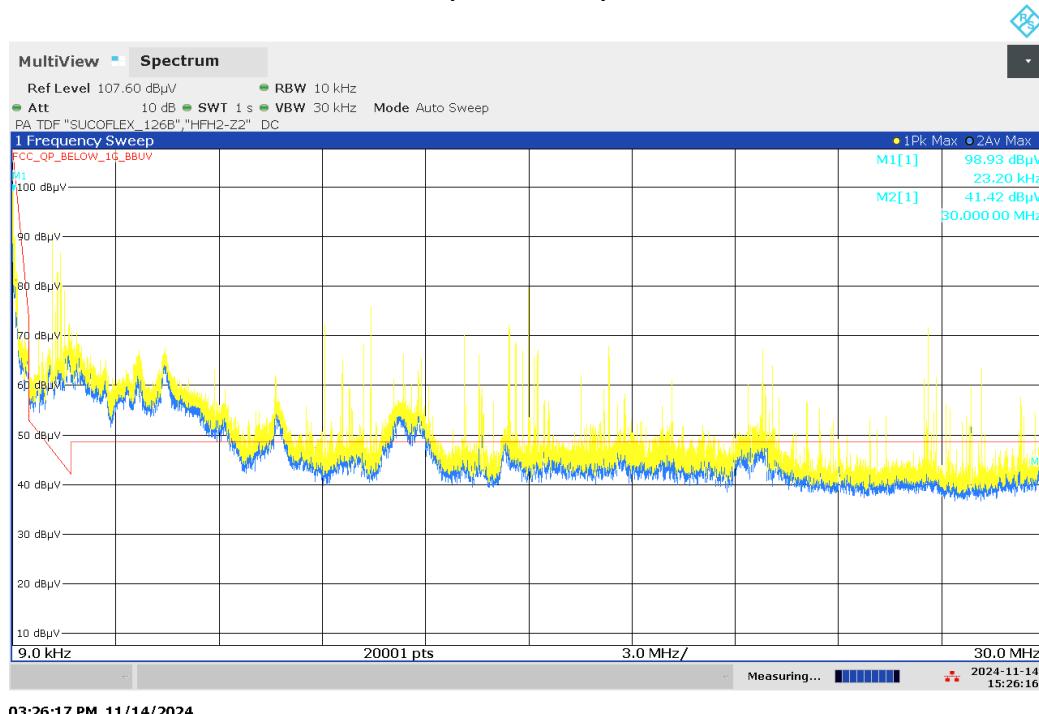
Noise Level, Ambient, Frequency Range = 9 kHz -30 MHz, three-axes



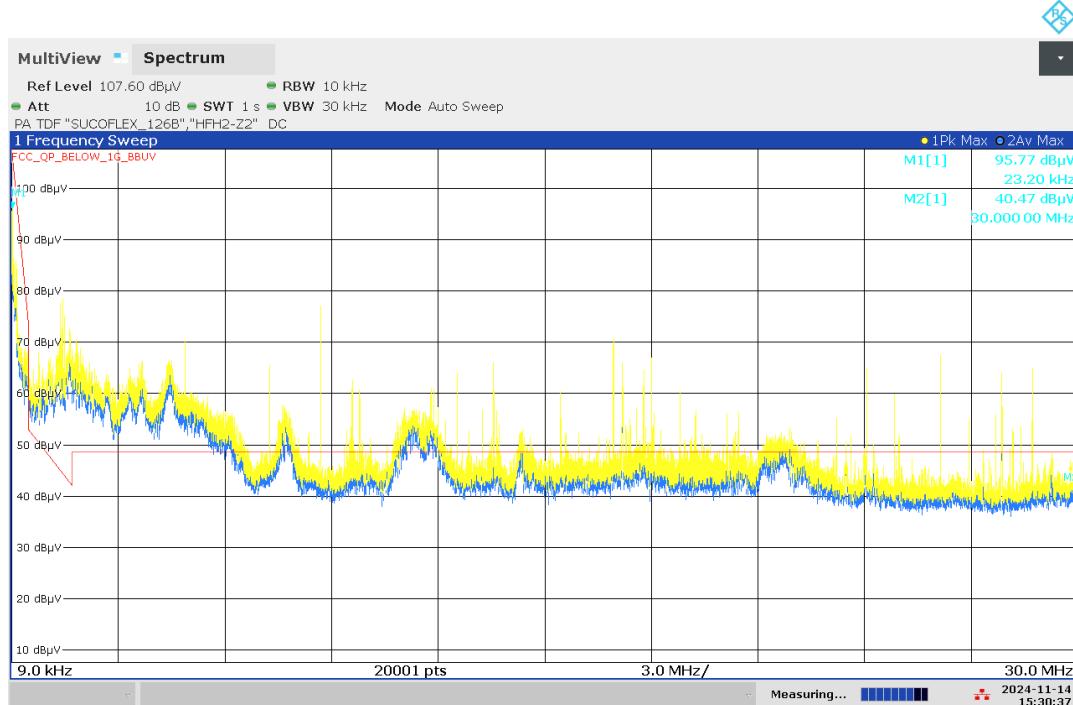
Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-1,
 Frequency Range = 9 kHz – 30 MHz, three-axes
 (S03_AO04)



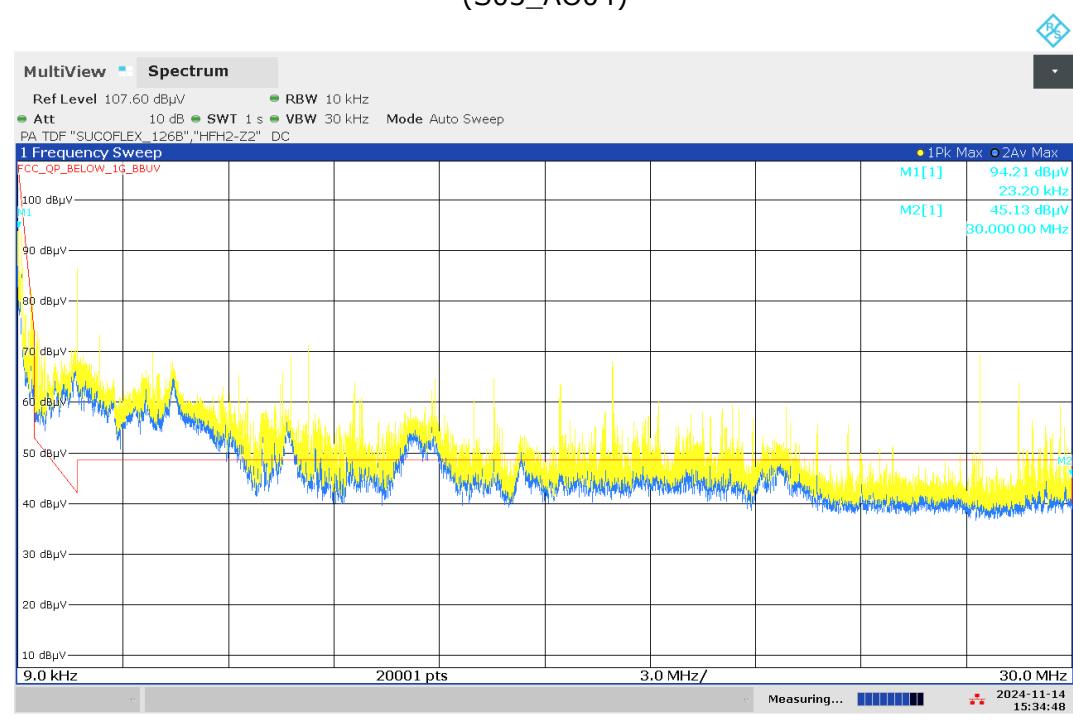
Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-3,
 Frequency Range = 9 kHz – 30 MHz, three-axes
 (S03_AO04)



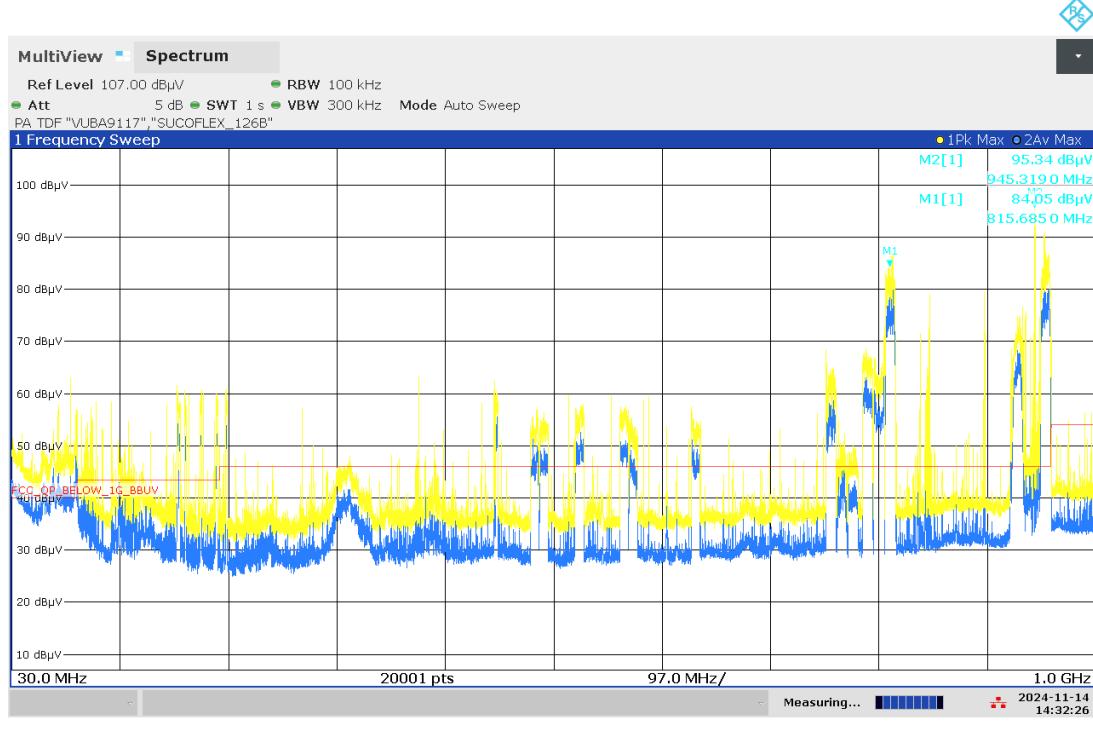
Radio Technology = WLAN ax 20 MHz, Operating Frequency = mid, Subband = U-NII-1
 Frequency Range = 9 kHz – 30 MHz, three-axes
 (S03_AO04)



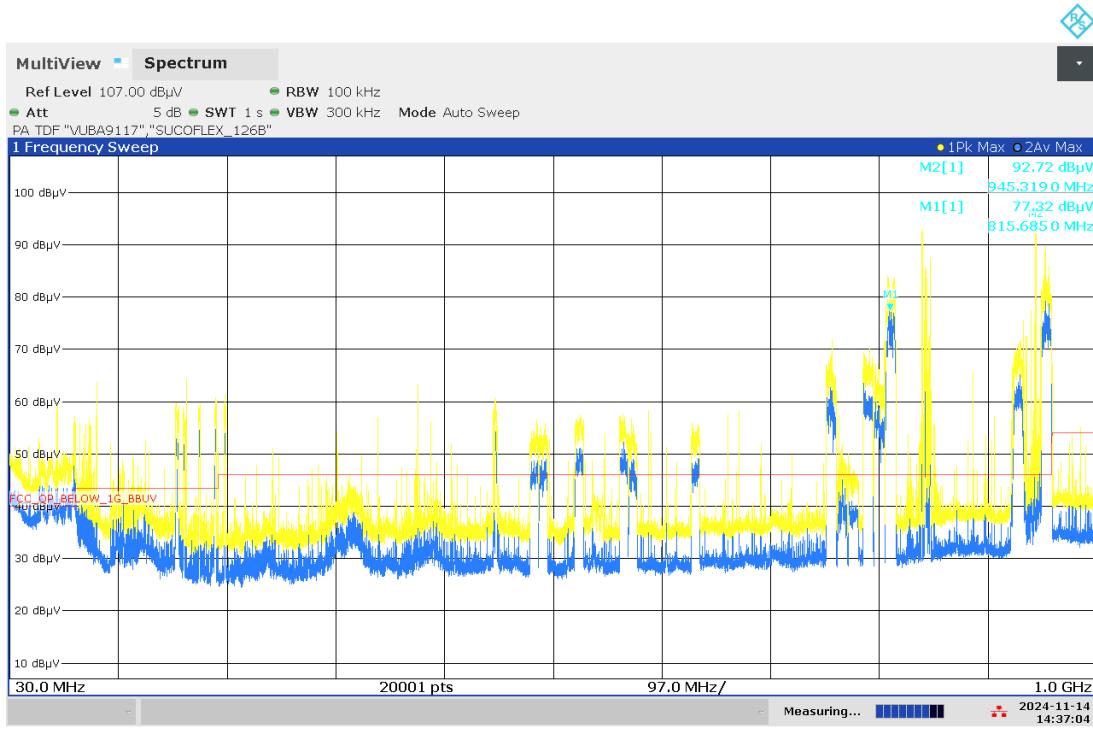
Radio Technology = WLAN ax 20 MHz, Operating Frequency = mid, Subband = U-NII-3
 Frequency Range = 9 kHz – 30 MHz, three-axes
 (S03_AO04)



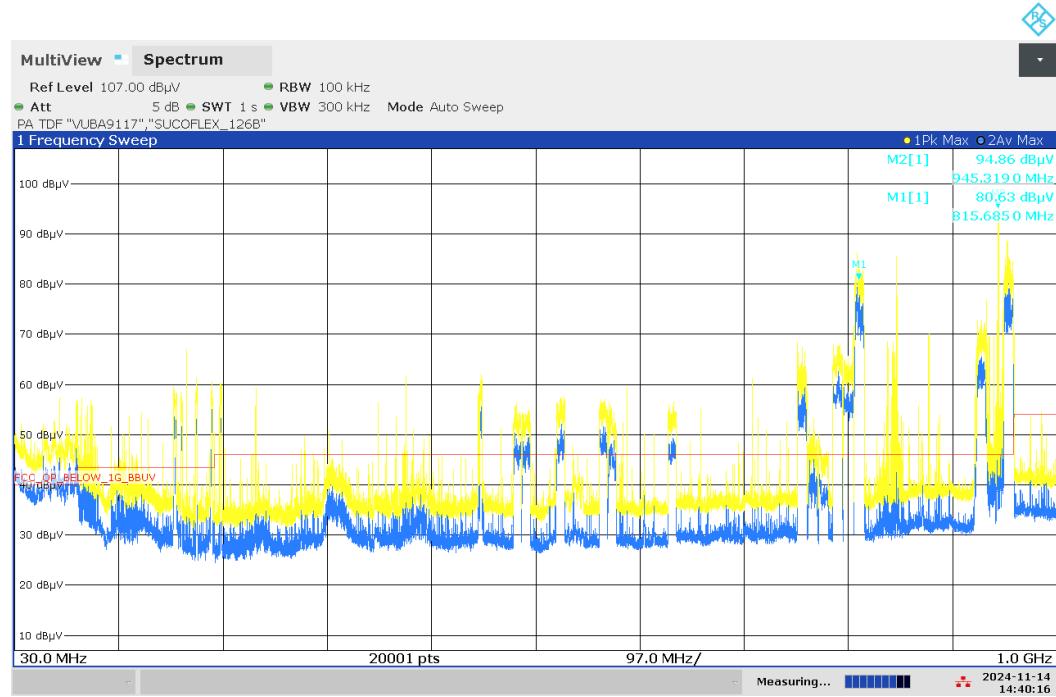
Noise Level, Ambient, Frequency Range = 30 MHz -1 GHz, Polarisation = horizontal



Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-1,
 Frequency Range = 30 MHz – 1 GHz, Polarisation = horizontal
 (S03_AO04)

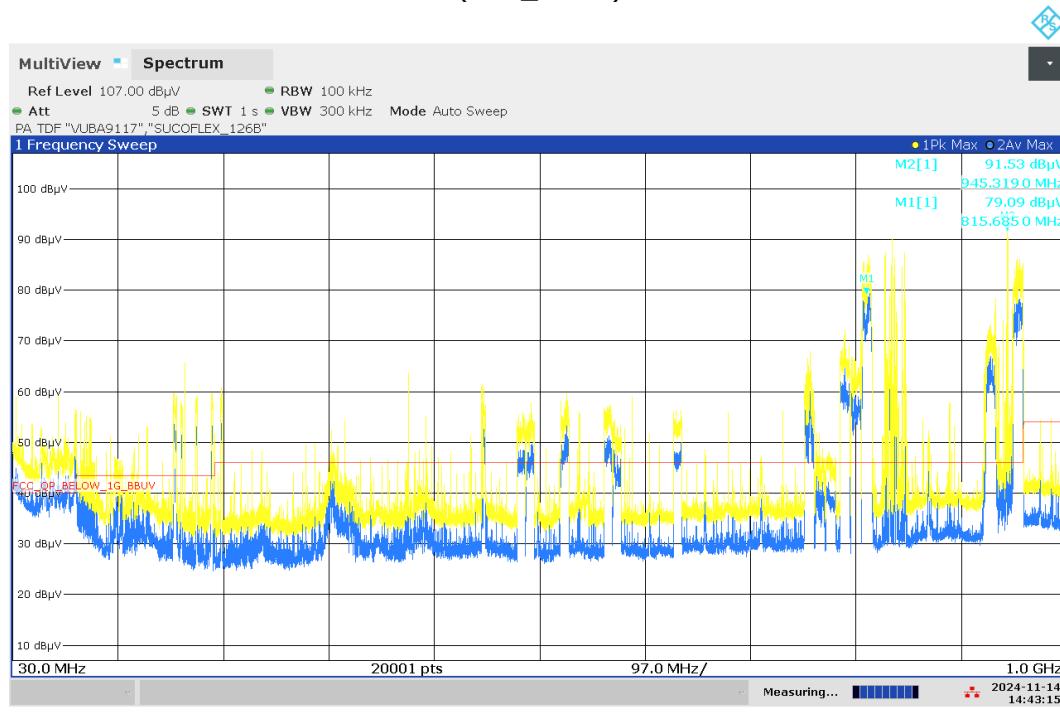


Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-3,
 Frequency Range = 30 MHz – 1 GHz, Polarisation = horizontal
 (S03_AO04)



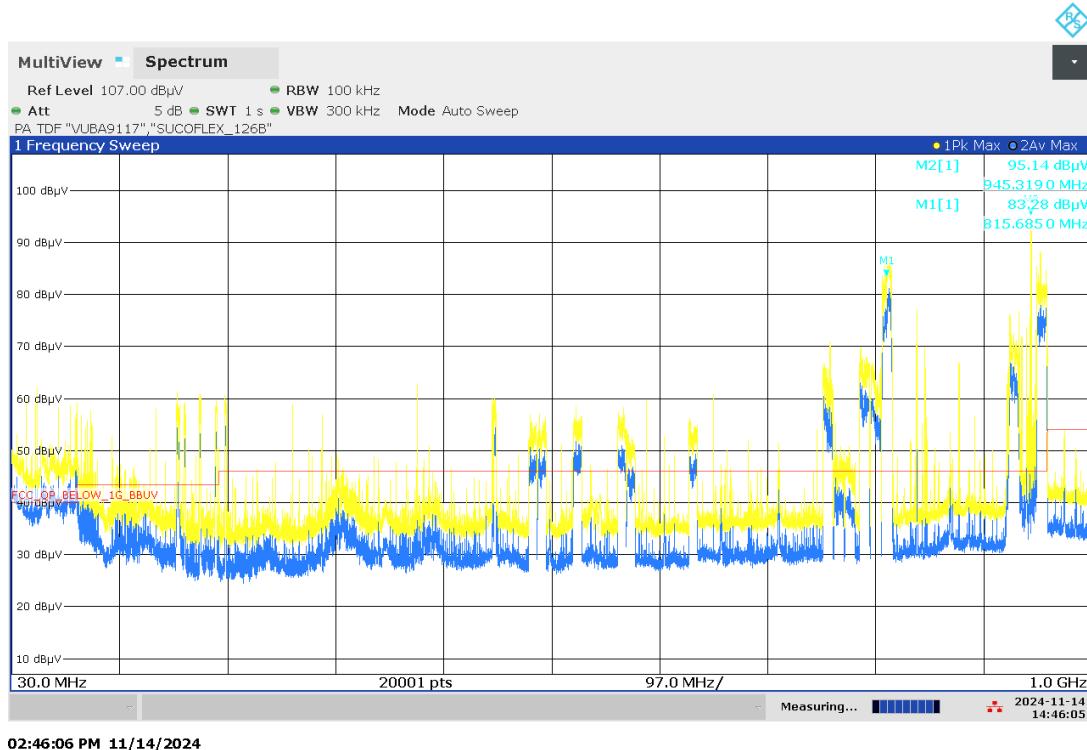
02:40:16 PM 11/14/2024

Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-1,
 Frequency Range = 30 MHz – 1 GHz, Polarisation = horizontal
 (S03_AO04)

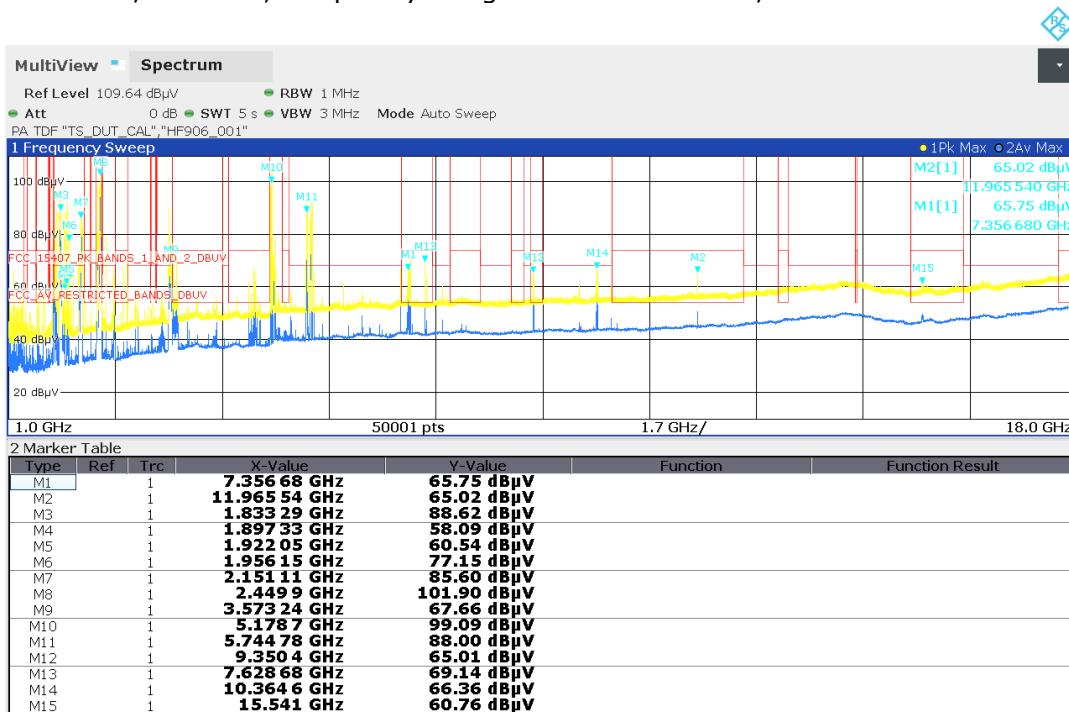


02:43:15 PM 11/14/2024

Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-3,
 Frequency Range = 30 MHz – 1 GHz, Polarisation = horizontal
 (S03_AO04)

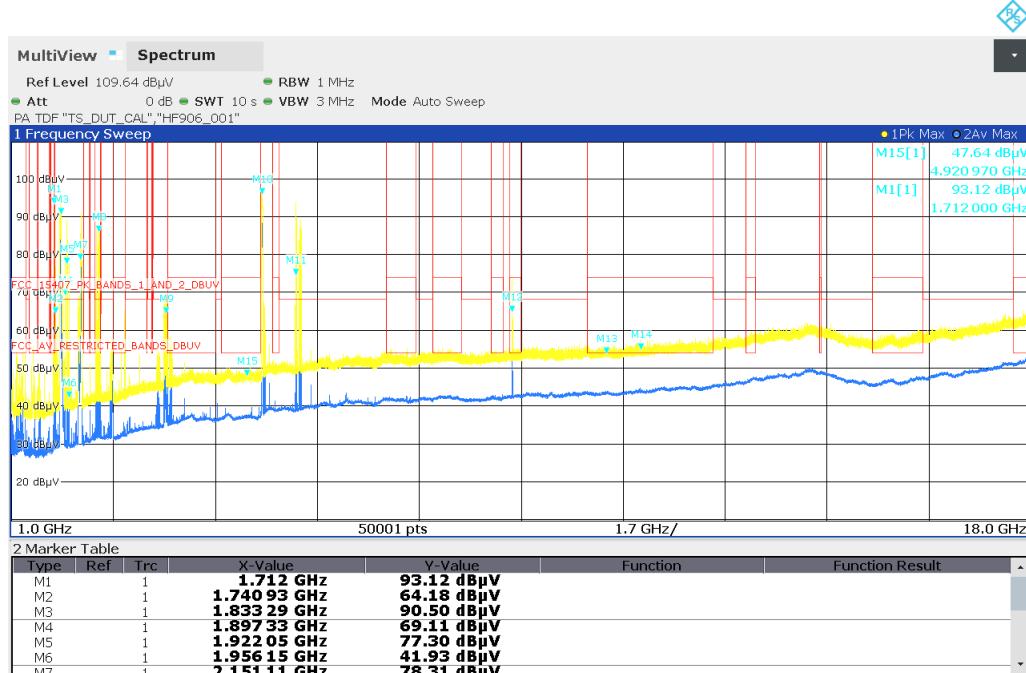


(Noise_1G_18G_2)
 Noise Level, Ambient, Frequency Range = 1 GHz -18 GHz, Polarisation = horizontal



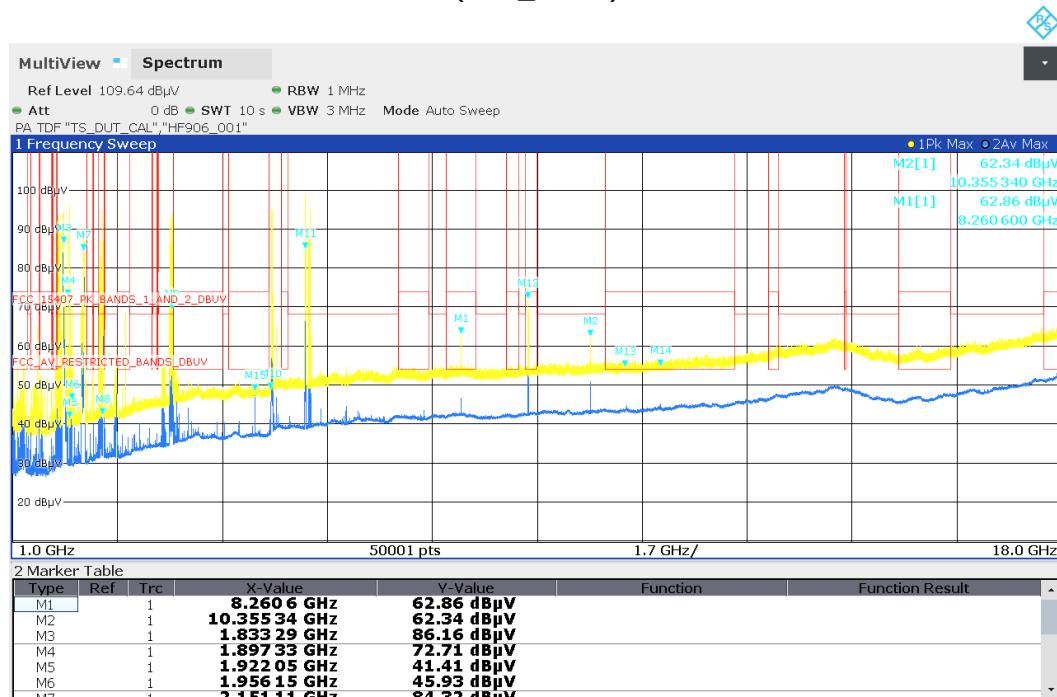
01:02:47 PM 11/14/2024

Radio Technology = WLAN a, Operating Frequency = low, Subband = U-NII-1,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



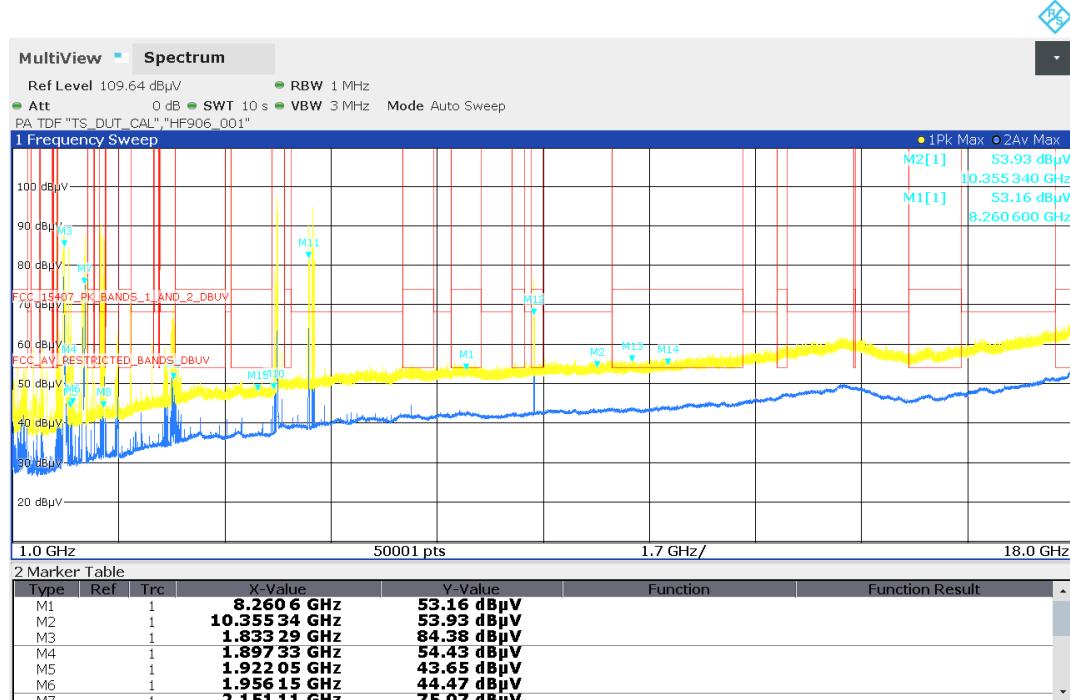
09:53:24 AM 11/14/2024

Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-1,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)

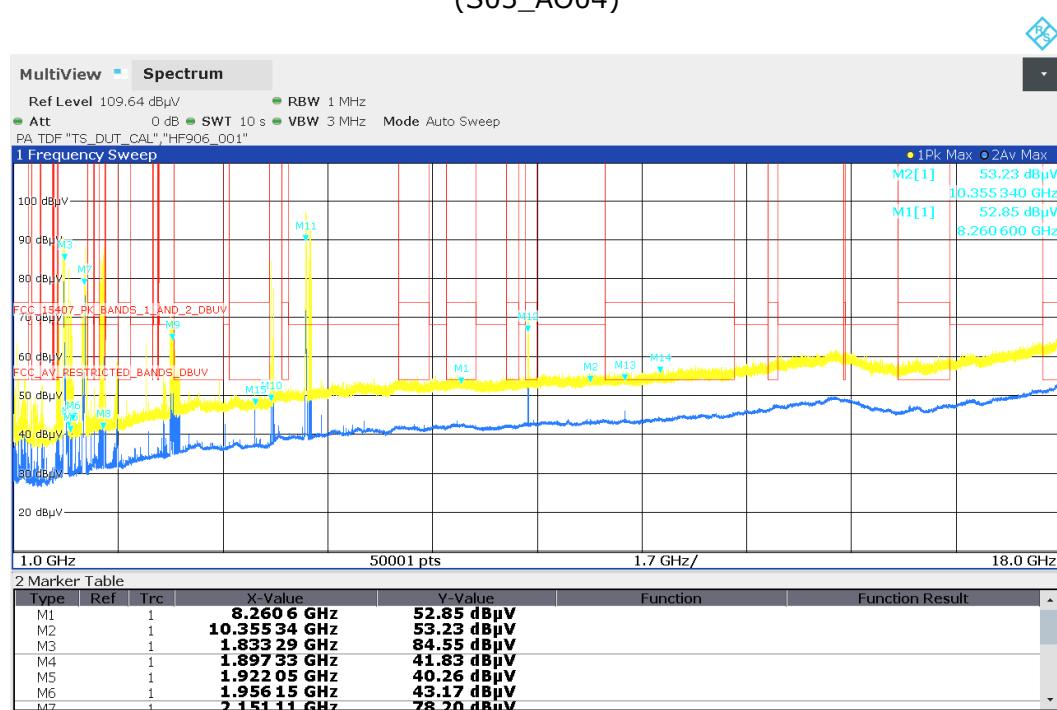


09:59:30 AM 11/14/2024

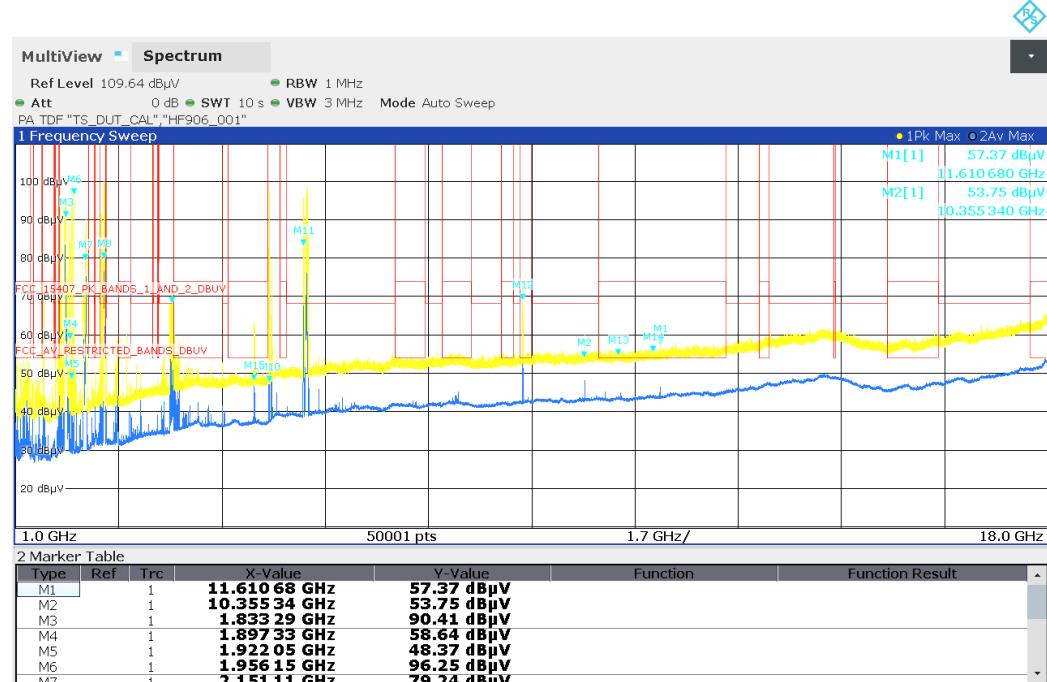
Radio Technology = WLAN a, Operating Frequency = high, Subband = U-NII-1,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



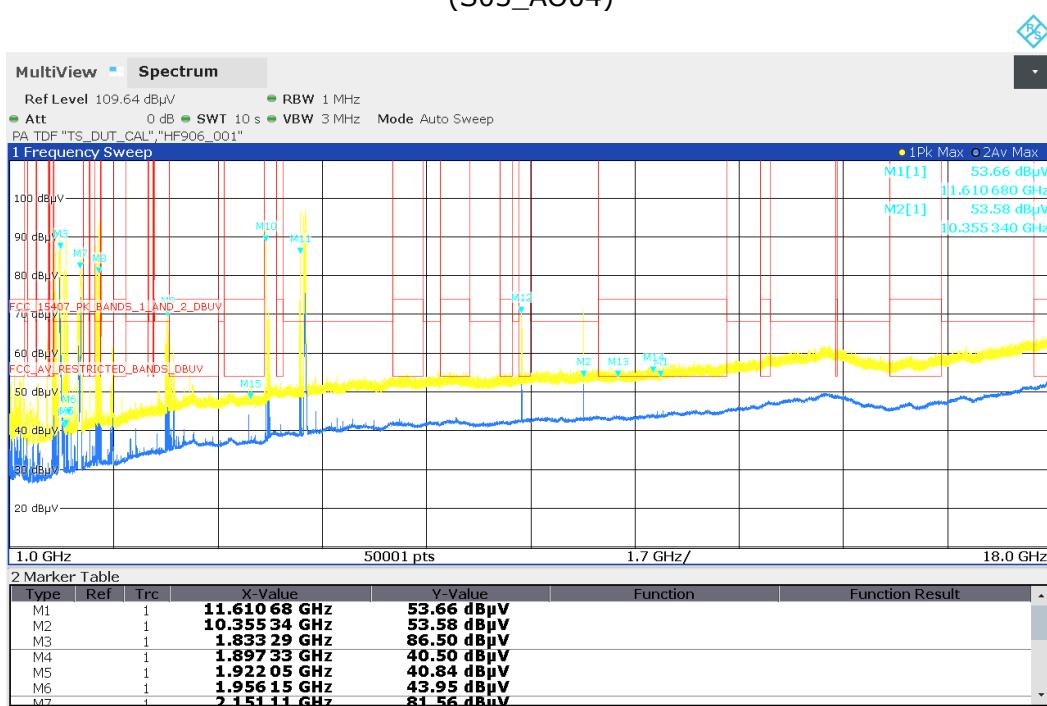
Radio Technology = WLAN a, Operating Frequency = low, Subband = U-NII-3,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



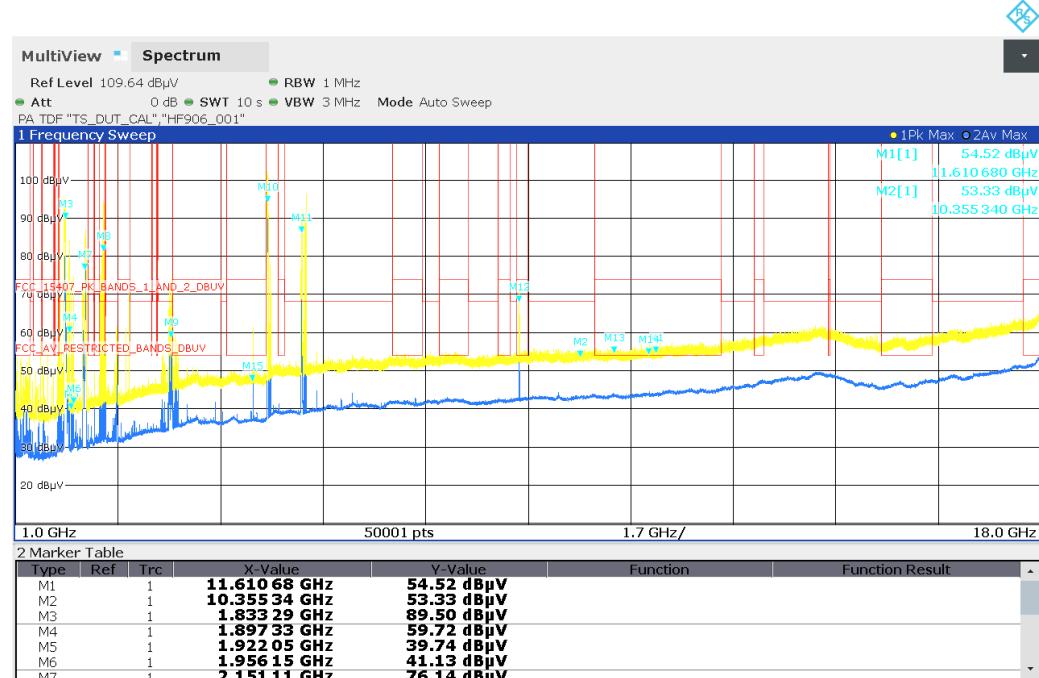
Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-3,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S03_A004)



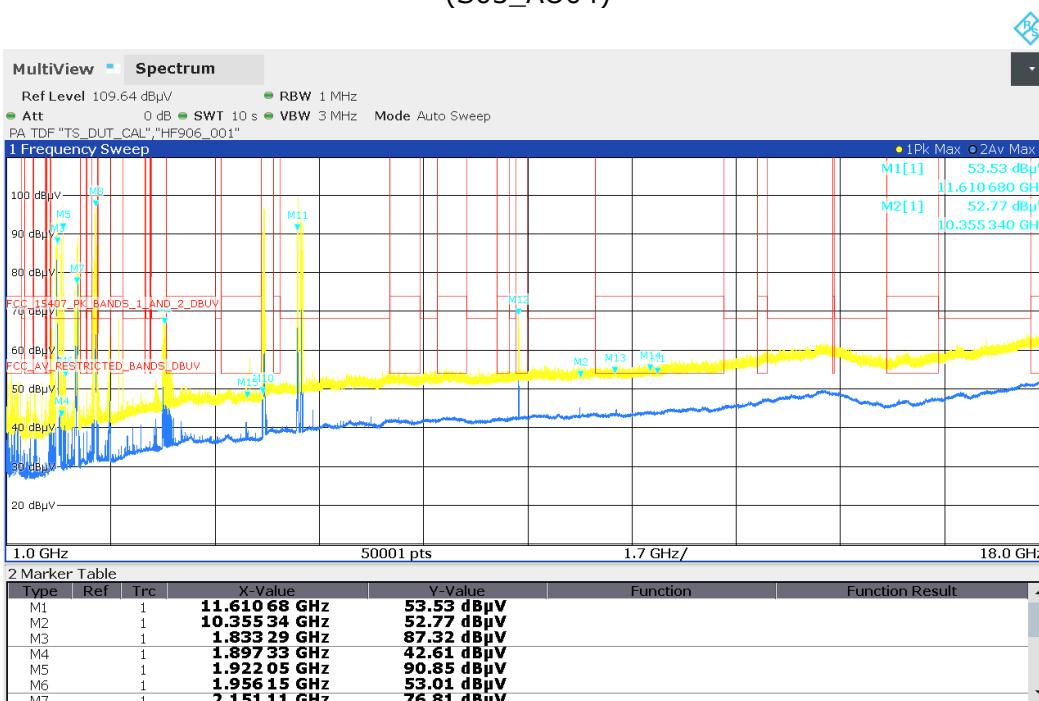
Radio Technology = WLAN a, Operating Frequency = high, Subband = U-NII-3,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S03_A04)



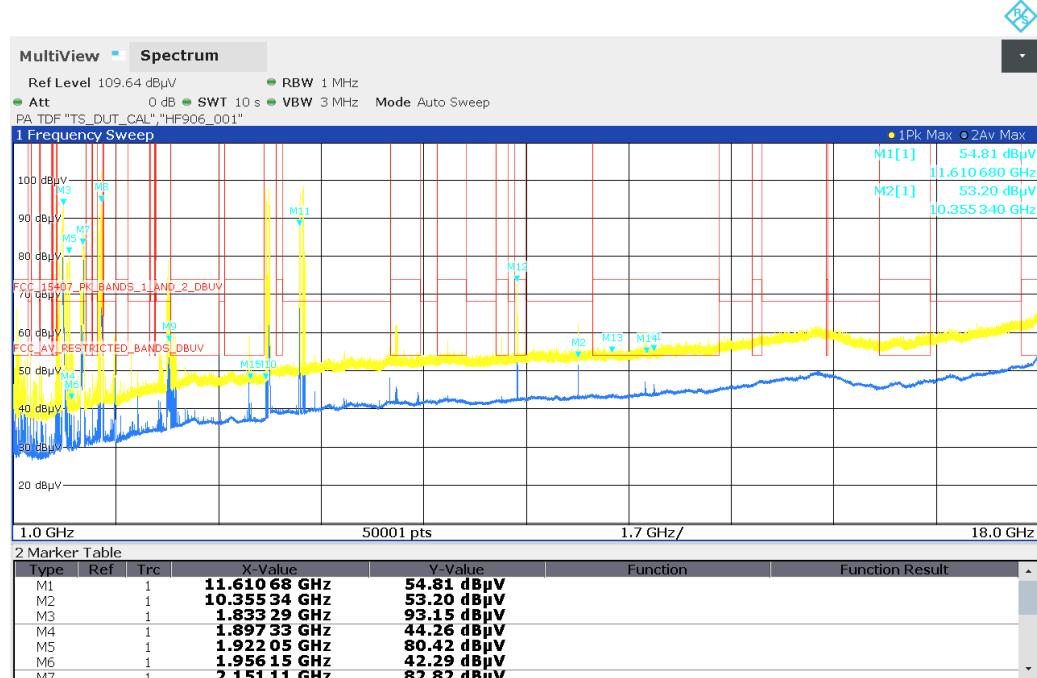
Radio Technology = WLAN n 20, Operating Frequency = low, Subband = U-NII-1,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



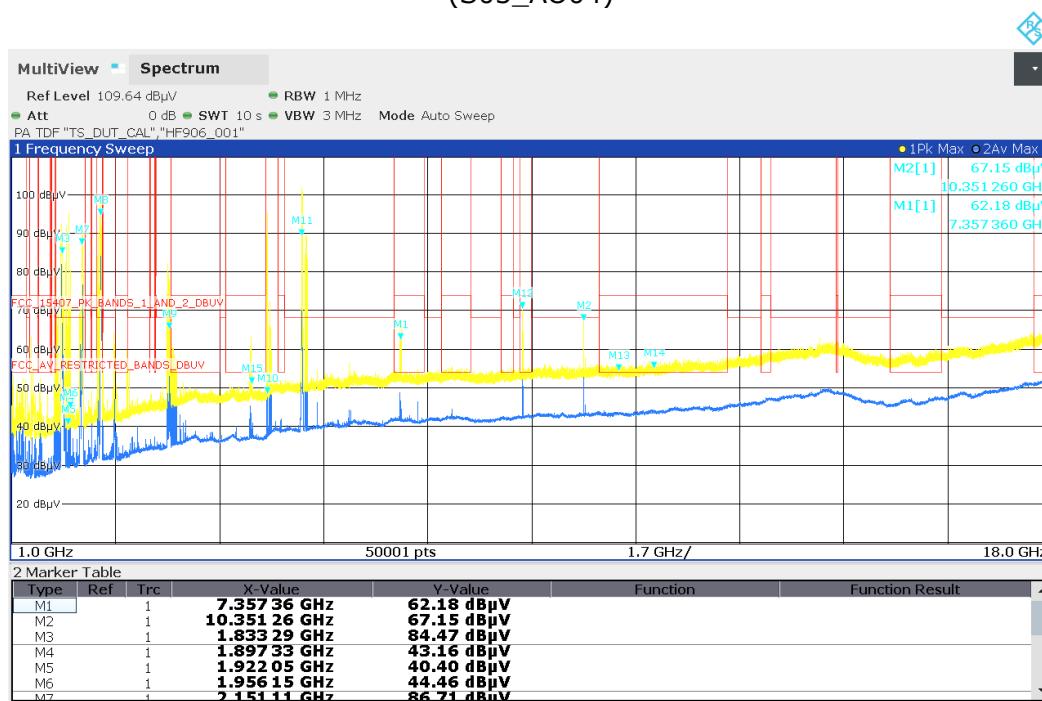
Radio Technology = WLAN n 20, Operating Frequency = mid, Subband = U-NII-1,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



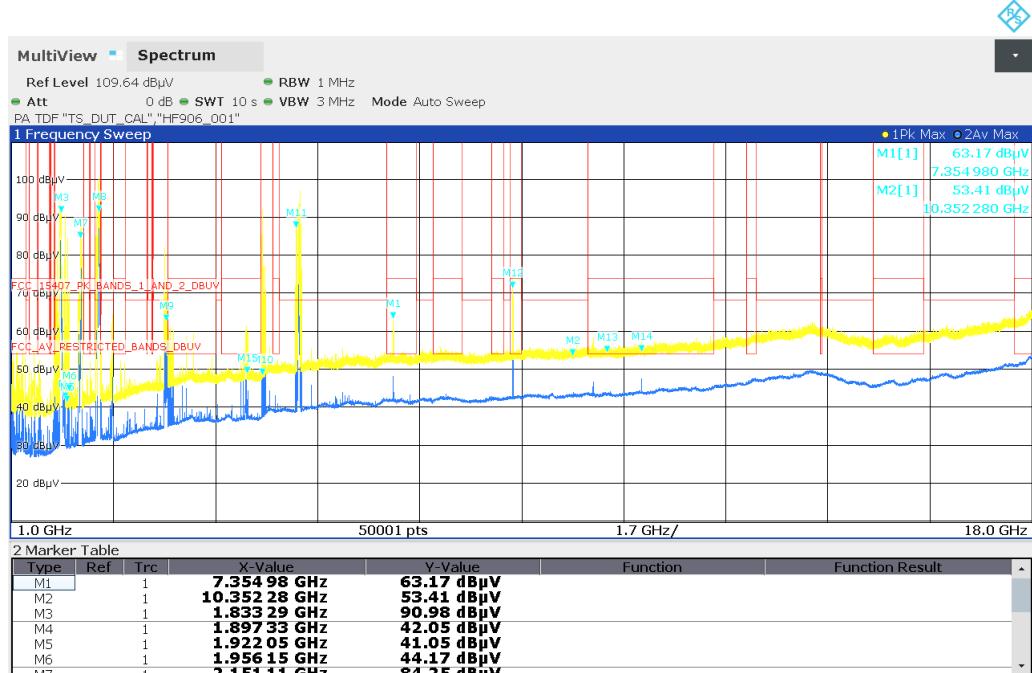
Radio Technology = WLAN n 20, Operating Frequency = high, Subband = U-NII-1,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



Radio Technology = WLAN n 20, Operating Frequency = low, Subband = U-NII-3,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)

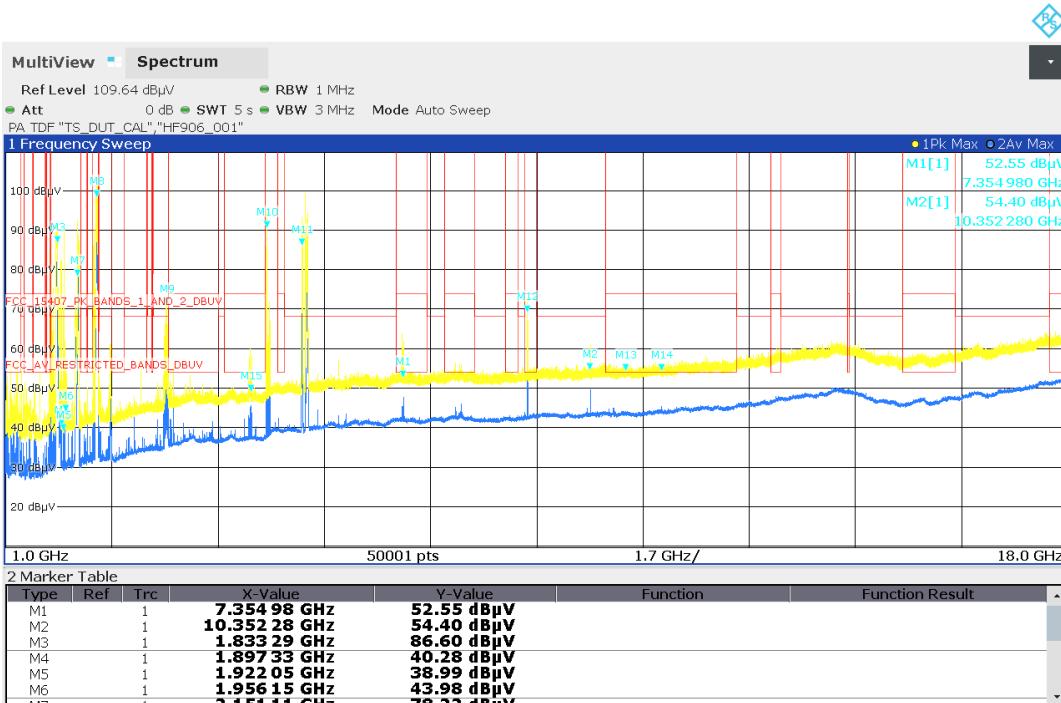


Radio Technology = WLAN n 20, Operating Frequency = mid, Subband = U-NII-3,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



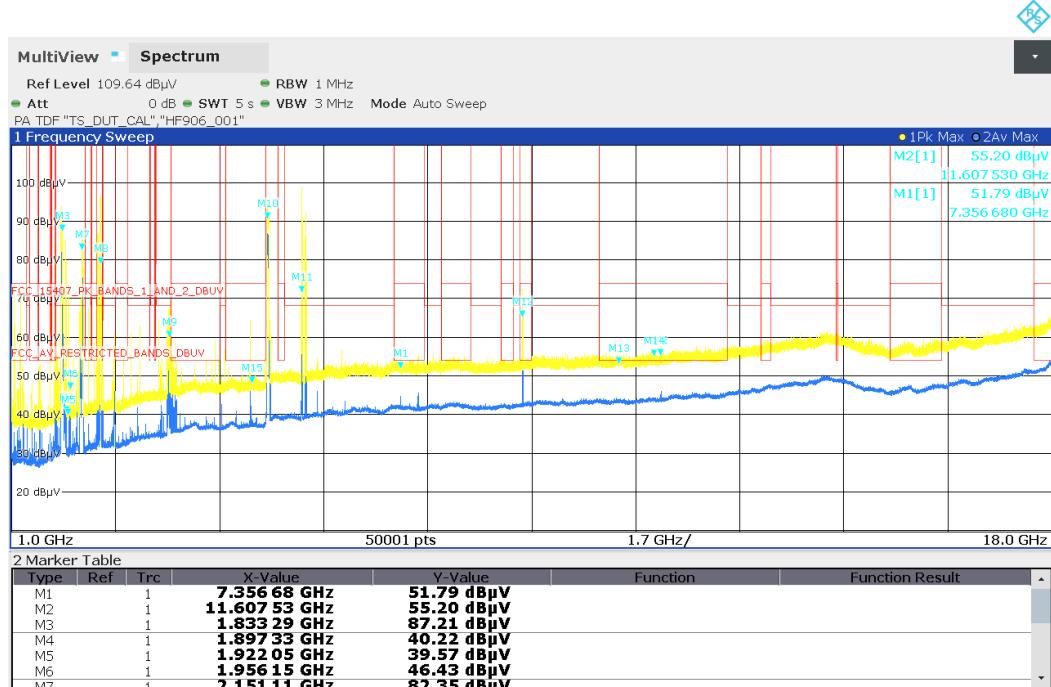
10:41:43 AM 11/14/2024

Radio Technology = WLAN n 20, Operating Frequency = high, Subband = U-NII-3,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



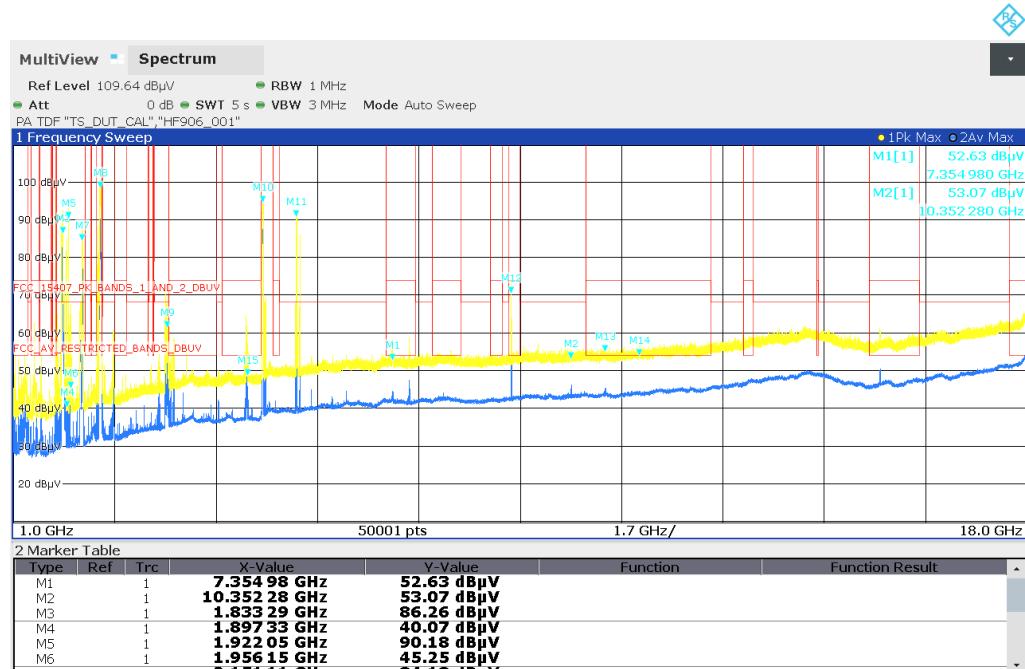
10:45:25 AM 11/14/2024

Radio Technology = WLAN n 40, Operating Frequency = low, Subband = U-NII-1,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



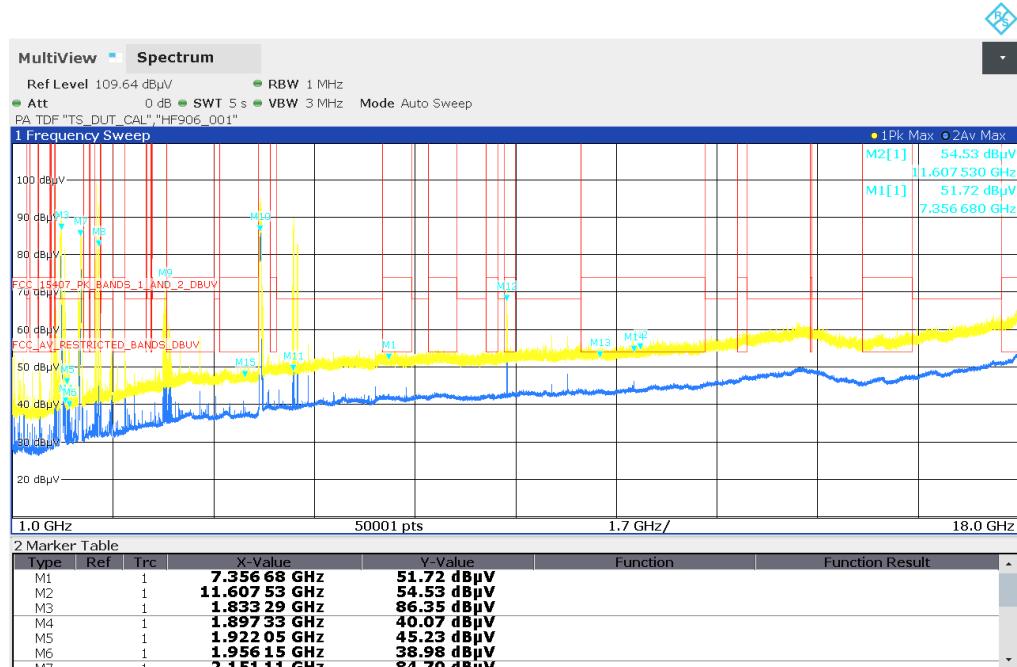
11:51:02 AM 11/14/2024

Radio Technology = WLAN ac 20, Operating Frequency = low, Subband = U-NII-1,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



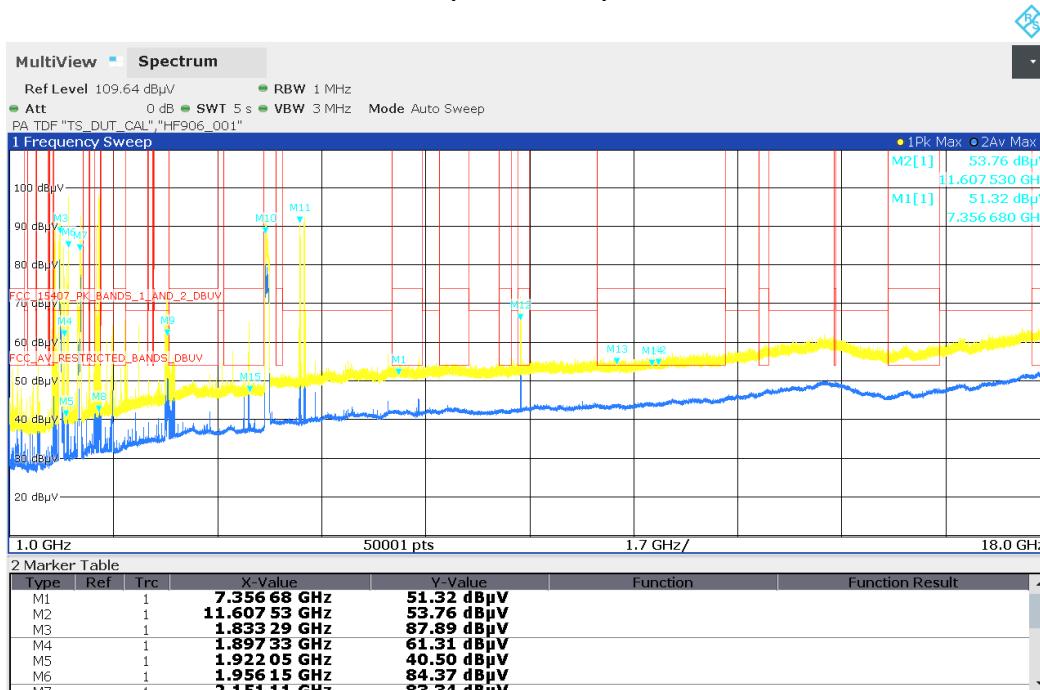
10:48:22 AM 11/14/2024

Radio Technology = WLAN ac 40, Operating Frequency = low, Subband = U-NII-1,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



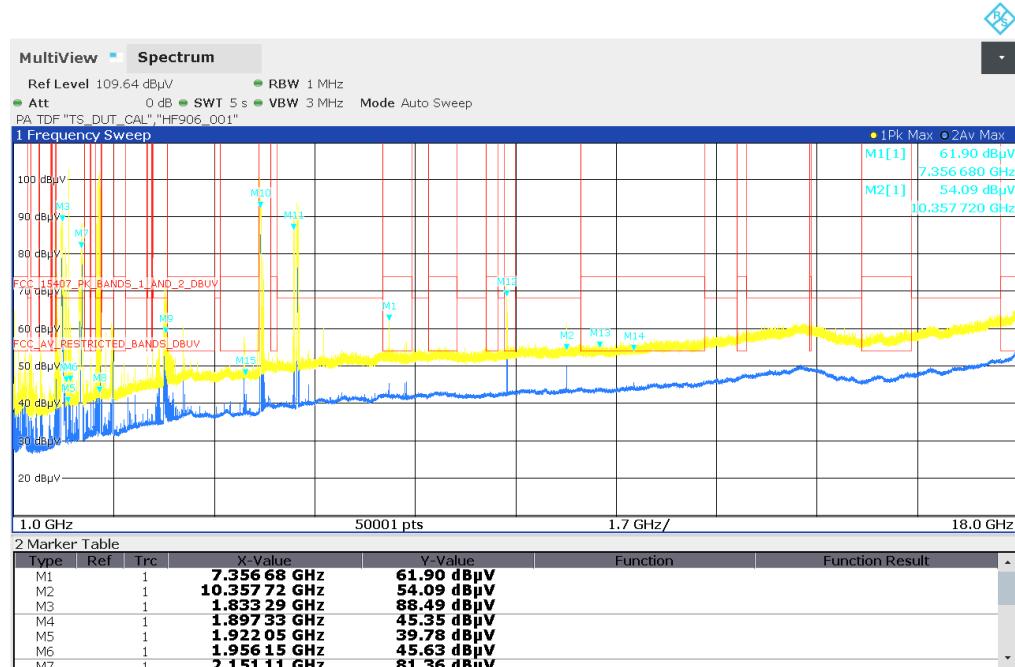
11:54:31 AM 11/14/2024

Radio Technology = WLAN ac 80, Operating Frequency = mid, Subband = U-NII-1,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



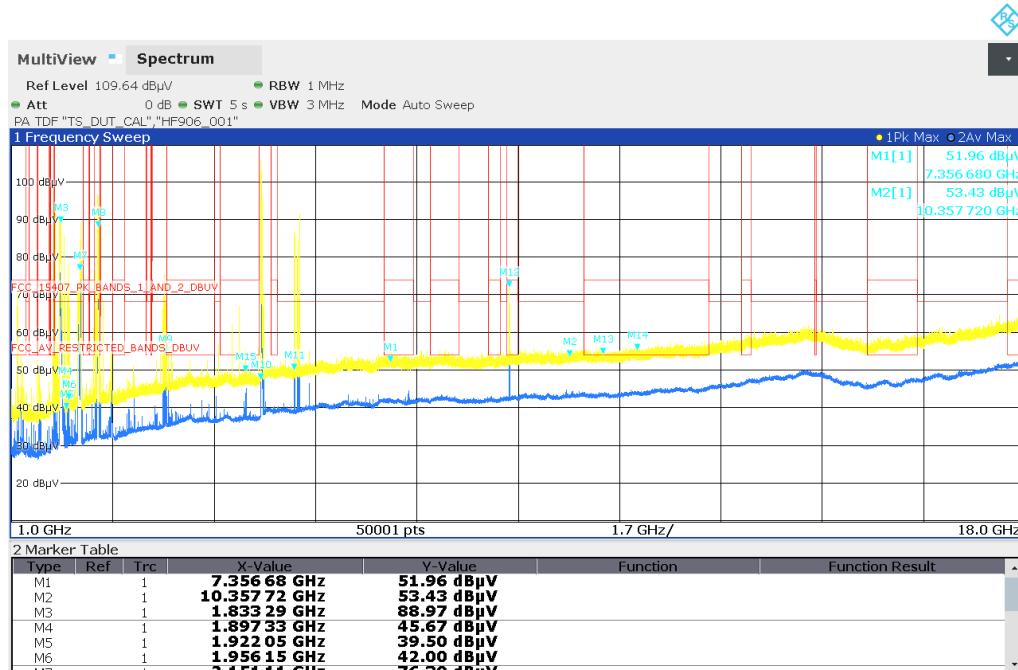
11:56:58 AM 11/14/2024

Radio Technology = WLAN ax 20, Operating Frequency = low, Subband = U-NII-1,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



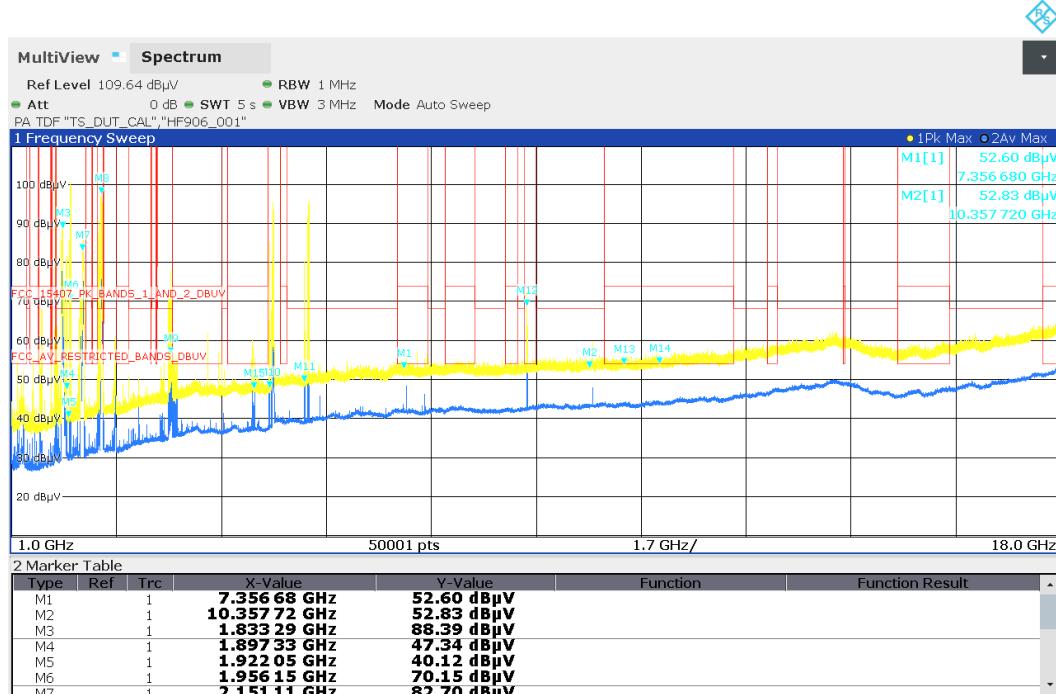
11:25:42 AM 11/14/2024

Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-1,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



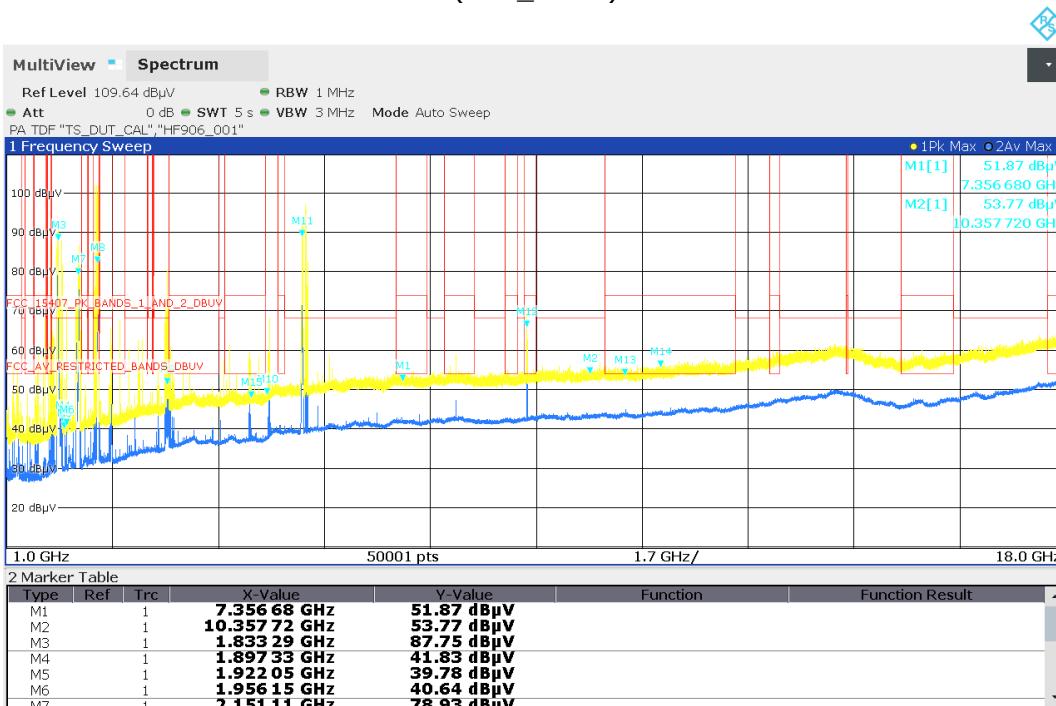
11:30:23 AM 11/14/2024

Radio Technology = WLAN ax 20, Operating Frequency = high, Subband = U-NII-1,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



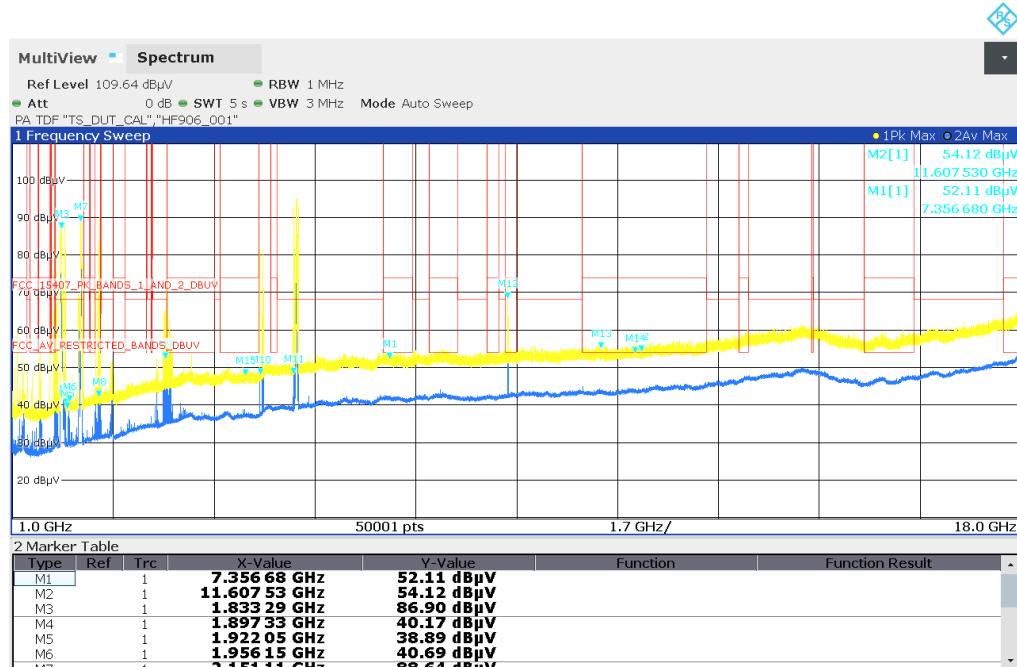
11:33:08 AM 11/14/2024

Radio Technology = WLAN ax 20, Operating Frequency = low, Subband = U-NII-3,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



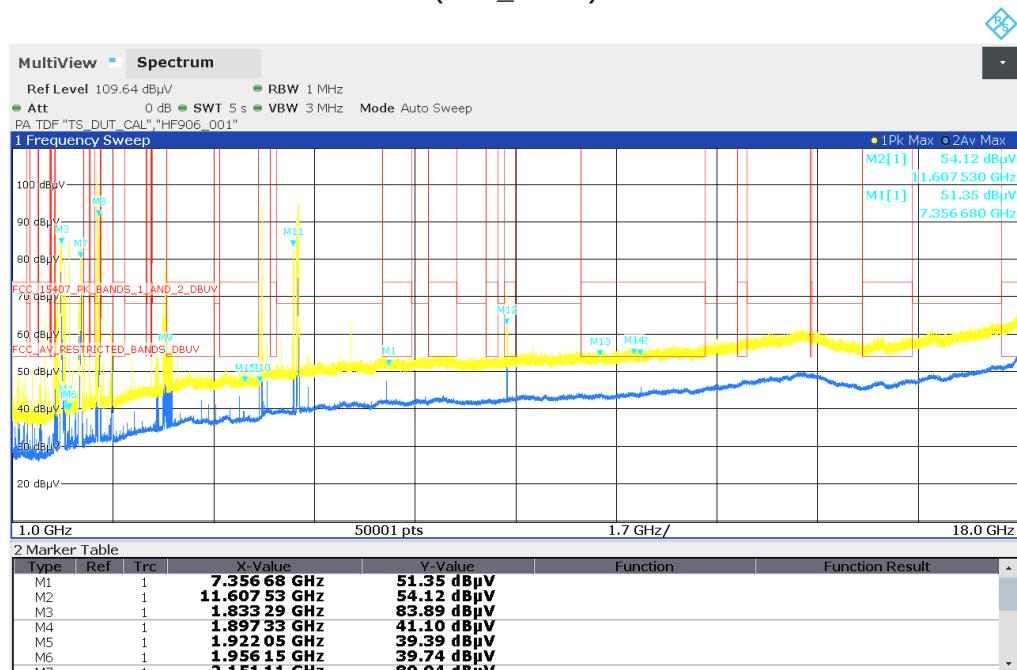
11:36:06 AM 11/14/2024

Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-3,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



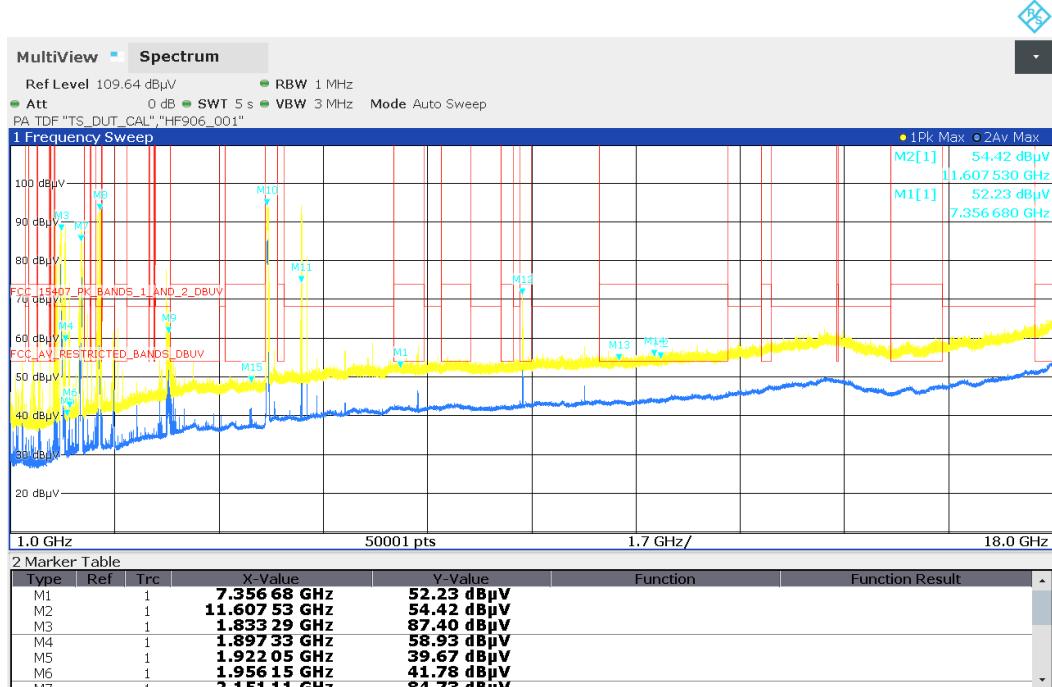
11:43:19 AM 11/14/2024

Radio Technology = WLAN ax 20, Operating Frequency = high, Subband = U-NII-3,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



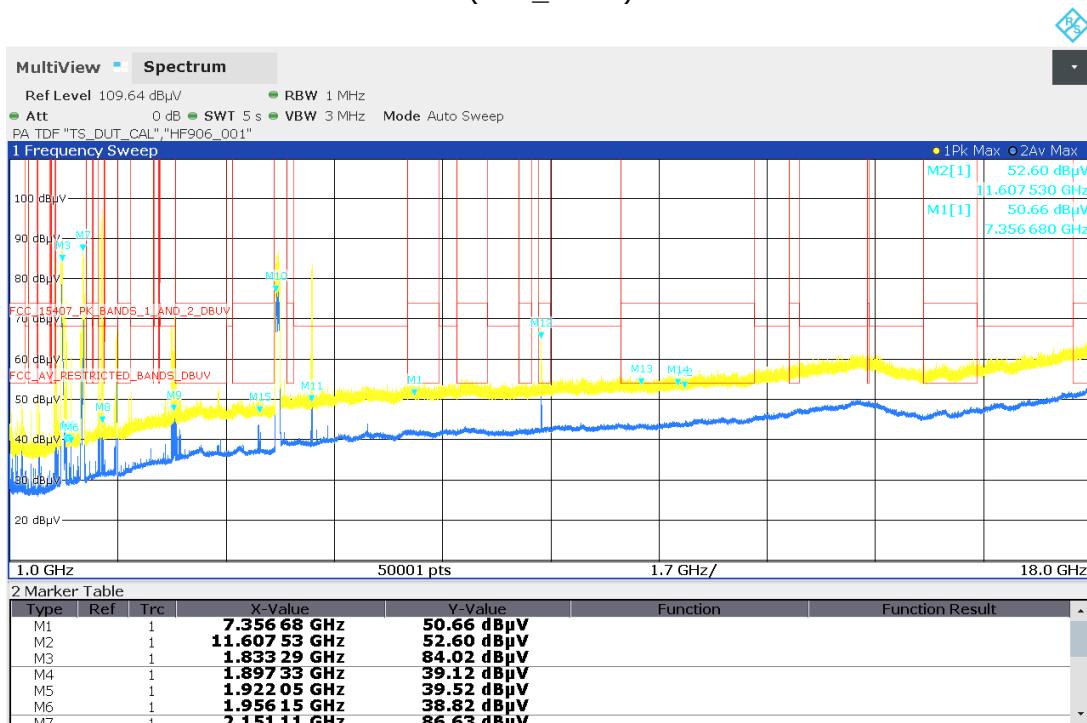
11:46:00 AM 11/14/2024

Radio Technology = WLAN ax 40, Operating Frequency = low, Subband = U-NII-1,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S03_AO04)



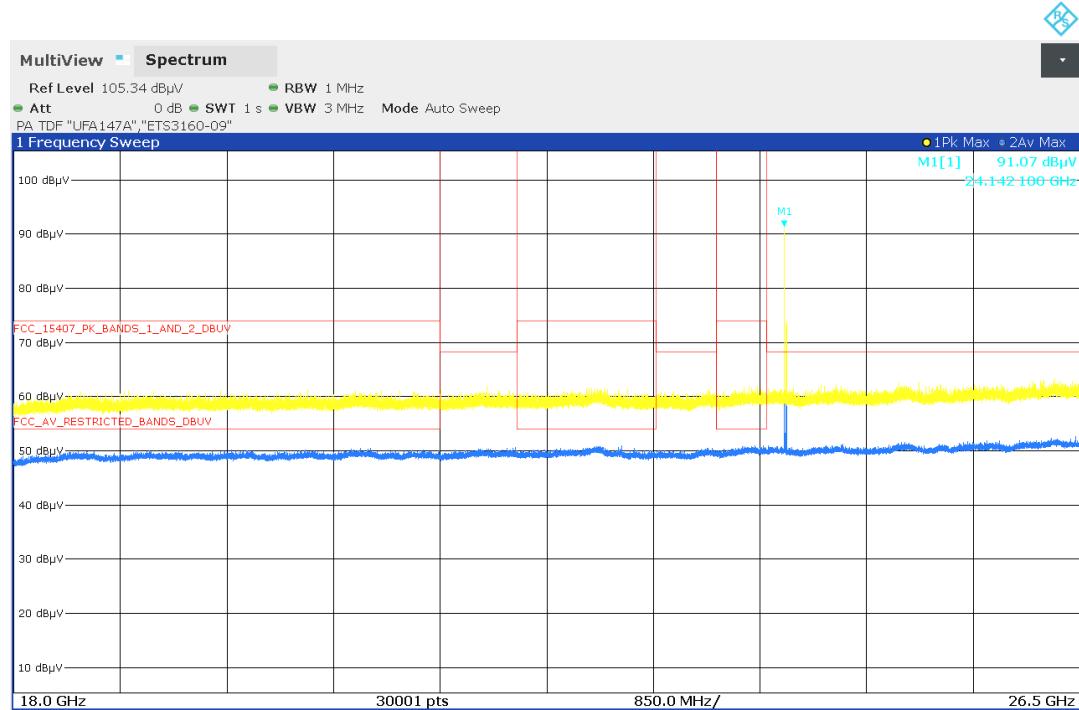
12:00:13 PM 11/14/2024

Radio Technology = WLAN ax 80, Operating Frequency = mid, Subband = U-NII-1,
 Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
 (S02_AO04)



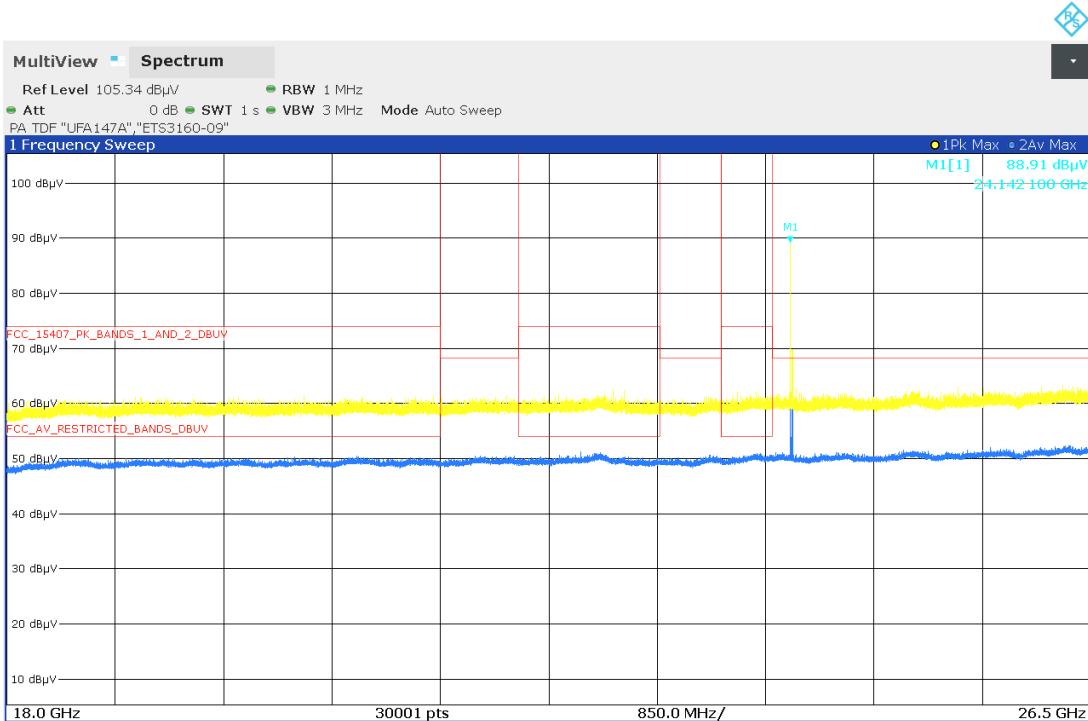
12:02:34 PM 11/14/2024

Noise Level, Ambient, Frequency Range = 18 GHz -26.5 GHz, Polarisation = horizontal



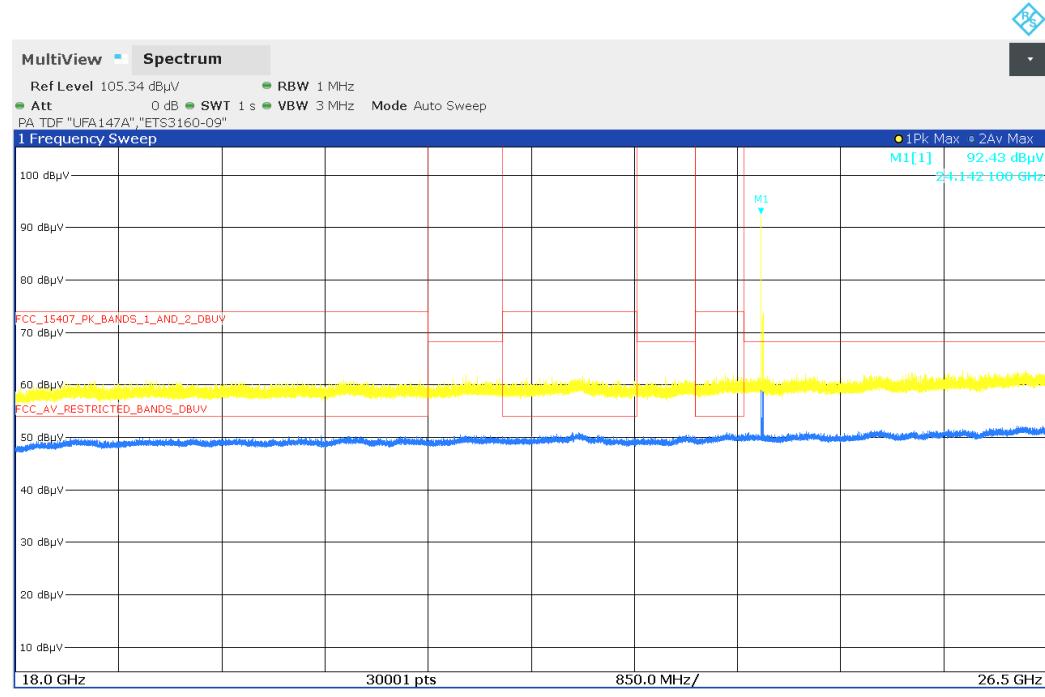
01:26:34 PM 11/14/2024

Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-1,
Frequency Range = 18 GHz – 26.5 GHz, Polarisation = horizontal
(S03_A004)



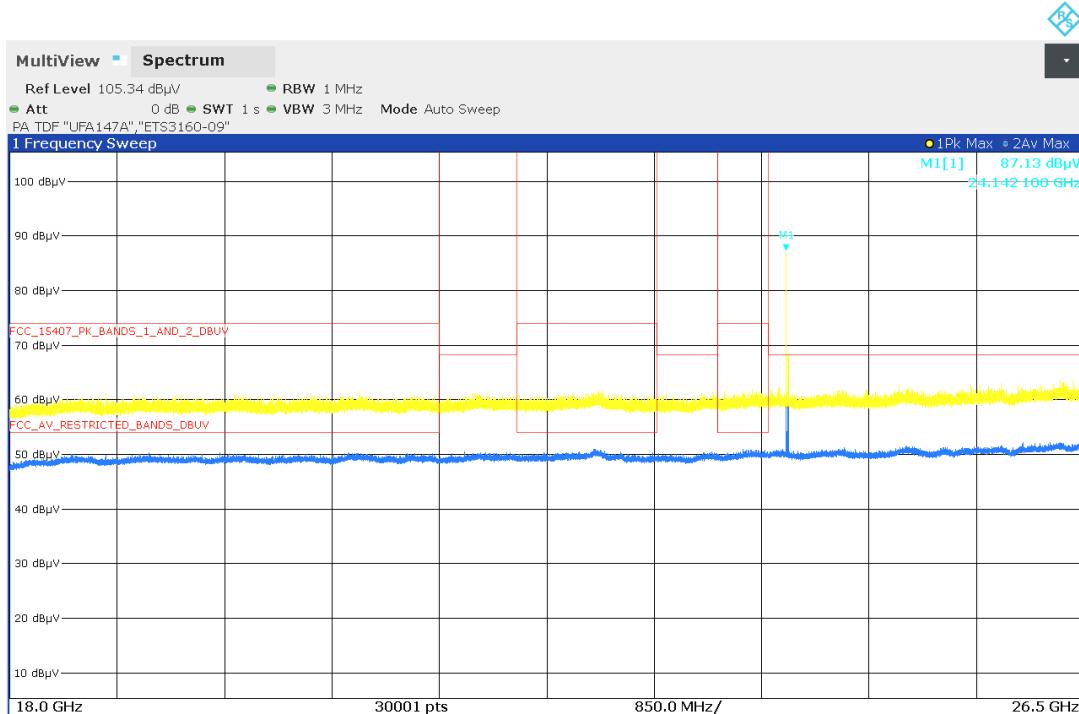
01:34:13 PM 11/14/2024

Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-3,
 Frequency Range = 18 GHz – 26.5 GHz, Polarisation = horizontal
 (S03_AO04)



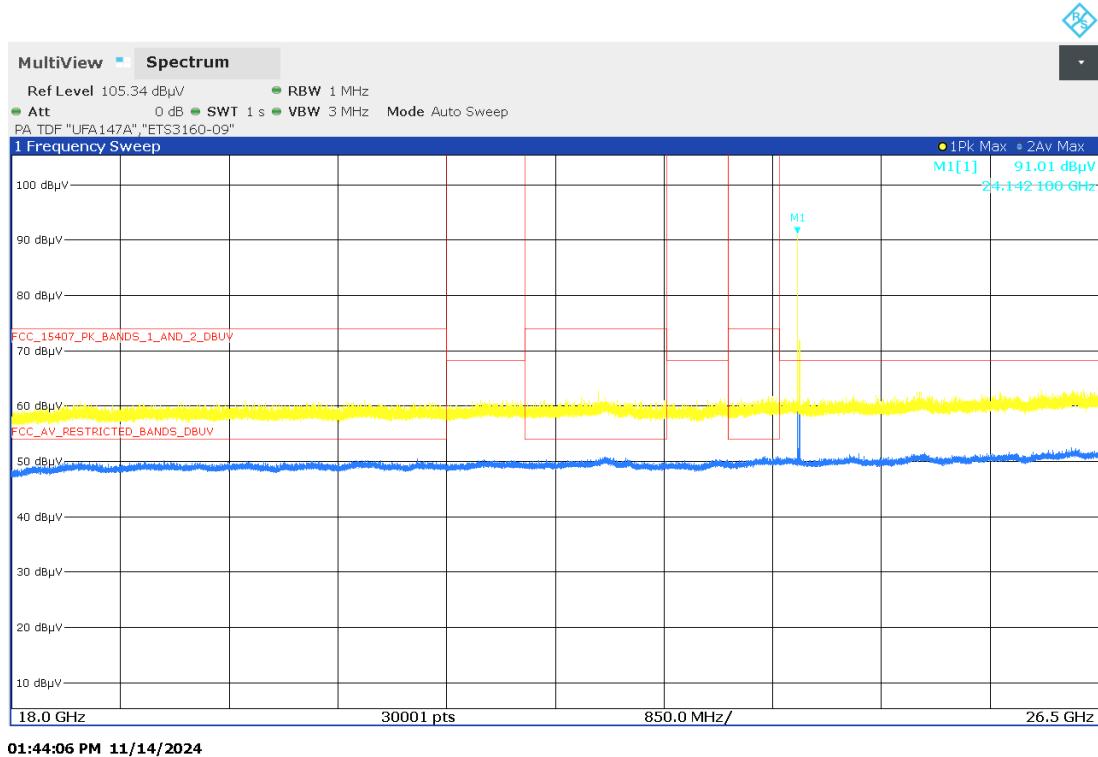
01:37:26 PM 11/14/2024

Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-1,
 Frequency Range = 18 GHz – 26.5 GHz, Polarisation = horizontal
 (S03_AO04)

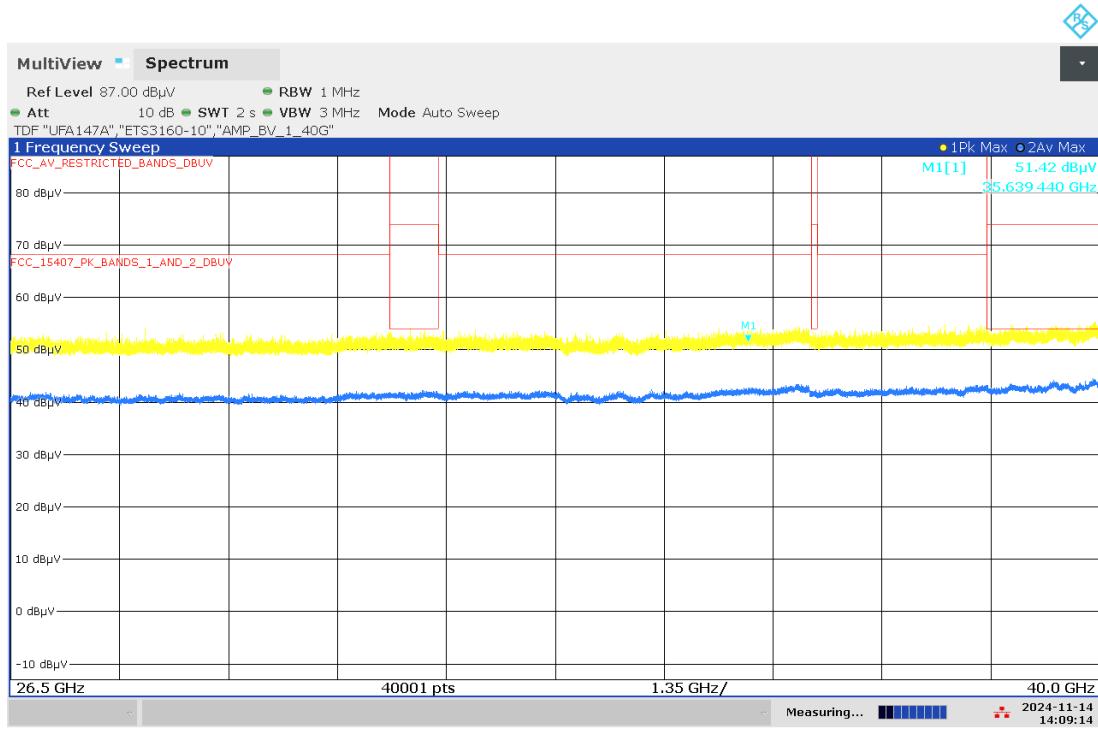


01:41:01 PM 11/14/2024

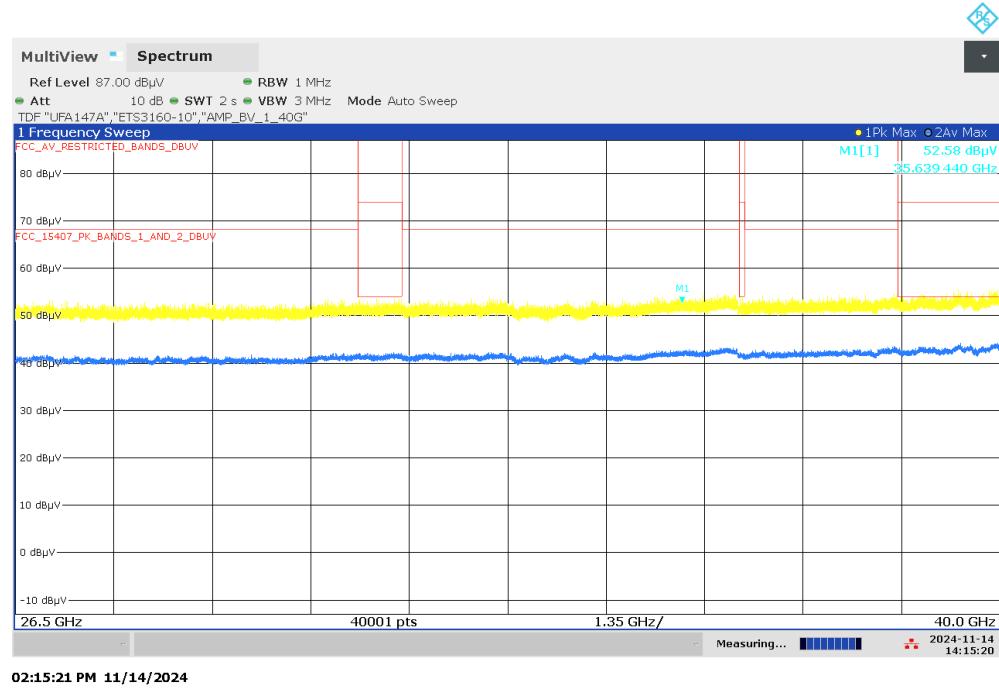
Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-3,
 Frequency Range = 18 GHz – 26.5 GHz, Polarisation = horizontal
 (S03_AO04)



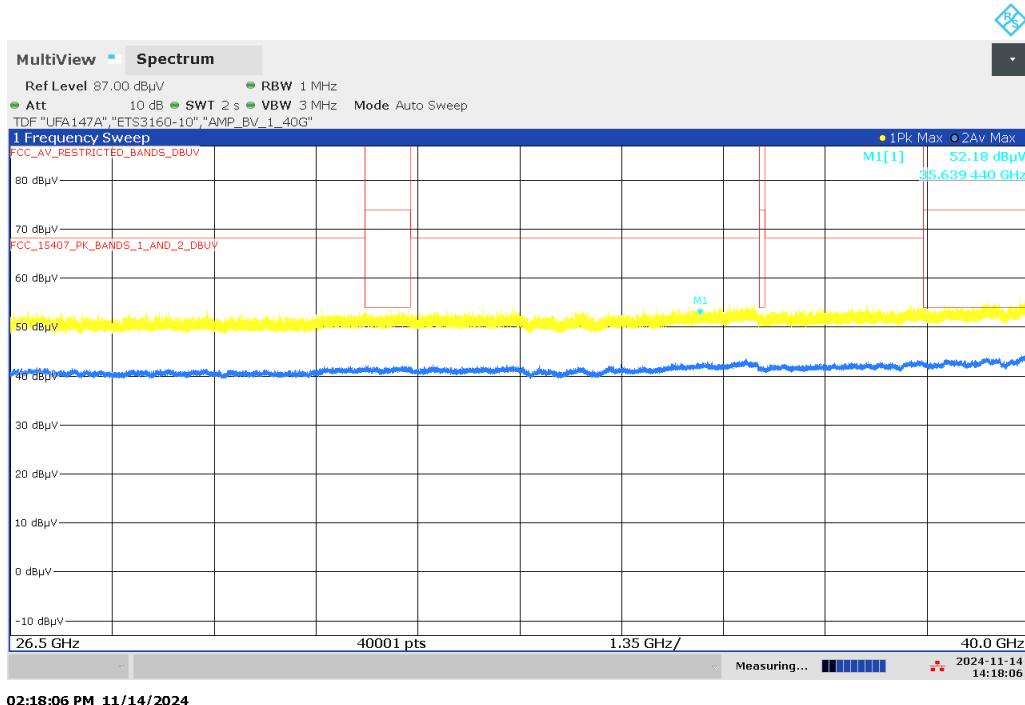
Noise Level, Ambient, Frequency Range = 26.5 GHz -40 GHz, Polarisation = horizontal



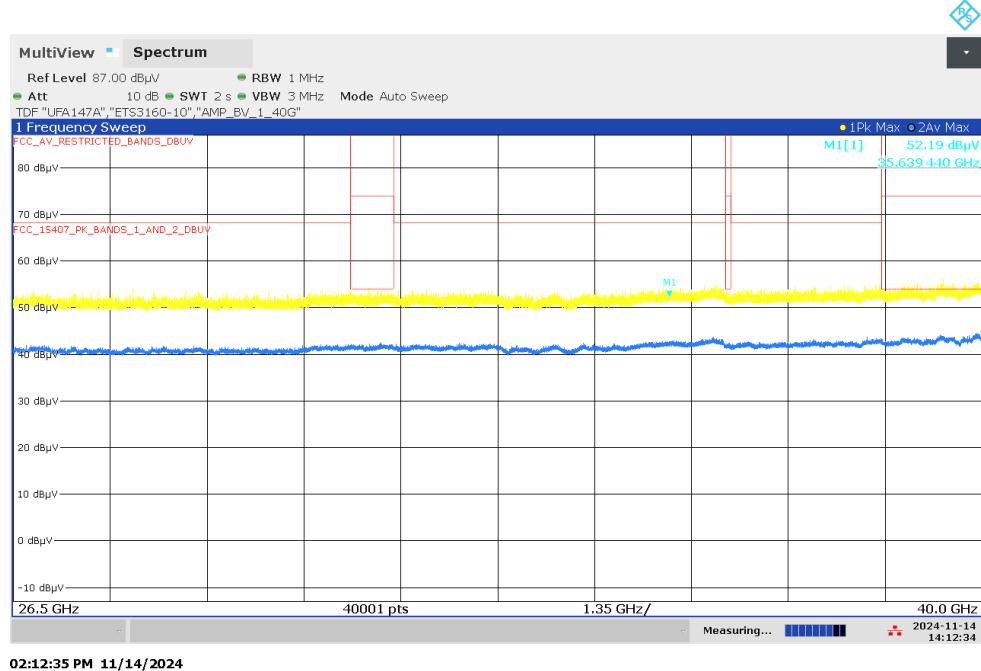
Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-1,
 Frequency Range = 26.5 GHz -40 GHz, Polarisation = horizontal
 (S03_AO04)



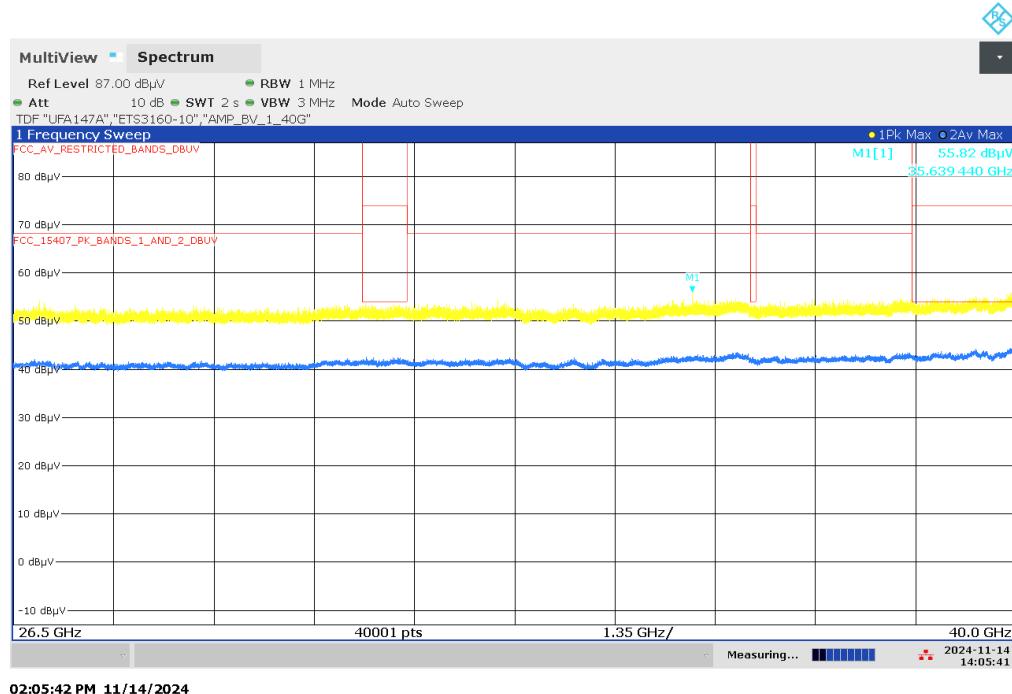
Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-3,
 Frequency Range = 26.5 GHz -40 GHz, Polarisation = horizontal
 (S03_AO04)



Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-1,
 Frequency Range = 26.5 GHz -40 GHz, Polarisation = horizontal
 (S03_AO04)



Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-3,
 Frequency Range = 26.5 GHz -40 GHz, Polarisation = horizontal
 (S03_AO04)



5.3.6 TEST EQUIPMENT USED

- FCC In-Situ measurement equipment

5.4 BAND EDGE

Standard **FCC Part 15 Subpart E**

The test was performed according to:

- Measurement setup: ANSI C63.10, chapter 6.11.3

5.4.1 TEST DESCRIPTION

The Equipment Under Test (EUT) was installed in a typical installation in the test location. A RCoax cable was connected to one antenna connector (Port A). The other antenna output was terminated with 50 Ohm.

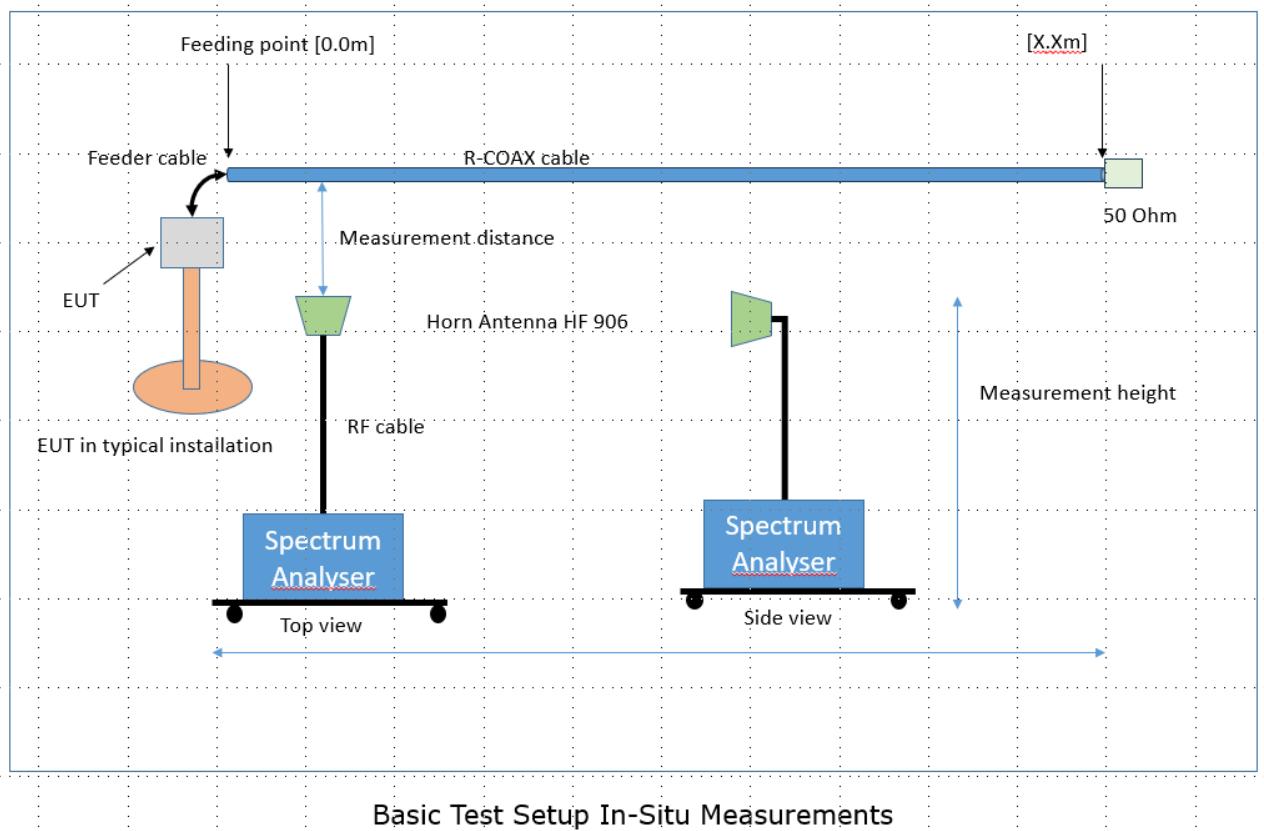
The following information can be found in the description of each measurement location.

- Length of the connected RCoax cable (chapter 3.5)
- Installation height of the RCoax cable (chapter 3.5)
- Length of the feeder cable (chapter 3.5)
- Measurement distance
- Maximum measurement distance from feeding point
- Maximum measurement height of the receiving antenna (during worst-case search)
- Worst-case measurement polarisation

Measurement procedure:

4. Determining of the worst-case position – highest emission of the fundamental – for both receiving antenna polarisations between:
 - a. Determination of the maximum measurement distance [$D_{STABLE\ DECREASE}$] from the feeding point
 - b. Search of worst-case distance between 0.0 m and maximum measurement distance from the feeding point of RCoax cable for both measurement polarisations.
 - c. Height variation of the Receiving antenna: continuously from 1.0 m to maximum receiving antenna height for both polarisations.
 - d. Determination of worst-case receiving antenna polarisation
5. Measurement of the output power at the worst-case position.
6. Measurement of the environmental electromagnetic spectrum – with EUT switched off – at worst-case position for both polarisations.

The following diagram shows the basic measurement set up:



Spectrum analyser settings:

- Detector: Peak, Average
- RBW = 1 MHz
- VBW = 3 MHz

5.4.2 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 within the 5.925-7.125 GHz band:

Limit: -27 dBm/MHz EIRP outside of the band 5.925-7.125 GHz.

FCC Part 15 Subpart E, §15.407 (b) (6)

For transmitters operating within the 5.925-7.125 GHz bands:

Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

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

For band edges connected to a restricted band, the limits are specified in Section 15.209(a)

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

Frequency in MHz	Limit (μ V/m)	Measurement distance (m)	Limits ($\text{dB}\mu$ V/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 (μ V/m)	Measurement distance (m)	Limits ($\text{dB}\mu$ V/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 ($\text{dB}\mu$ V/m) = 20 log (Limit (μ V/m)/1 μ V/m)

5.4.3 TEST PROTOCOL EUPEN

Ambient temperature: 12 – 13 °C
 Air Pressure: 990 – 994 hPa
 Humidity: 83 – 84 %

WLAN a-Mode; 20 MHz; 6 Mbit/s

Applied duty cycle correction (AV): 0.6 dB										
U-NII-Sub band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	36	5180	5150.0	50.6	PEAK	1000	74.0	23.4	BE-RB	FCC&IC
1	36	5180	5150.0	38.2	AV	1000	54.0	15.8	BE-RB	FCC&IC
3	149	5745	5725.0	61.4	PEAK	1000	122.2	60.8	BE-UE	FCC&IC
3	165	5825	5850.0	54.3	PEAK	1000	122.2	67.9	BE-UE	FCC&IC

WLAN n-Mode; 20 MHz; MCS0; SISO

Applied duty cycle correction (AV): 0.5 dB										
U-NII-Sub band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	36	5180	5150.0	49.4	PEAK	1000	74.0	24.6	BE-RB	FCC&IC
1	36	5180	5150.0	38.1	AV	1000	54.0	15.9	BE-RB	FCC&IC
3	149	5745	5725.0	59.7	PEAK	1000	122.2	62.5	BE-UE	FCC&IC
3	165	5825	5850.0	52.7	PEAK	1000	122.2	69.5	BE-UE	FCC&IC

WLAN n-Mode; 40 MHz; MCS0; SISO

Applied duty cycle correction (AV): 0.9 dB										
U-NII-Sub band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	38	5190	5150.0	50.5	PEAK	1000	74.0	23.5	BE-RB	FCC&IC
1	38	5190	5150.0	39.9	AV	1000	54.0	14.1	BE-RB	FCC&IC
3	151	5755	5725.0	70.7	PEAK	1000	122.2	51.5	BE-UE	FCC&IC
3	159	5795	5850.0	66.8	PEAK	1000	122.2	55.4	BE-UE	FCC&IC

WLAN ac-Mode; 20 MHz; MCS0; SISO

Applied duty cycle correction (AV): 0.5 dB

U-NII-Sub band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	36	5180	5150.0	51.1	PEAK	1000	74.0	22.9	BE-RB	FCC&IC
1	36	5180	5150.0	38.1	AV	1000	54.0	15.9	BE-RB	FCC&IC
3	149	5745	5725.0	59.6	PEAK	1000	122.2	62.6	BE-UE	FCC&IC
3	165	5825	5850.0	53.1	PEAK	1000	122.2	69.1	BE-UE	FCC&IC

WLAN ac-Mode; 40 MHz; MCS0; SISO

Applied duty cycle correction (AV): 0.5 dB

U-NII-Sub band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	38	5190	5150.0	50.5	PEAK	1000	74.0	23.5	BE-RB	FCC&IC
1	38	5190	5150.0	39.9	AV	1000	54.0	14.1	BE-RB	FCC&IC
3	151	5755	5725.0	68.9	PEAK	1000	122.2	53.3	BE-UE	FCC&IC
3	159	5795	5850.0	57.9	PEAK	1000	122.2	64.3	BE-UE	FCC&IC

WLAN ac-Mode; 80 MHz; MCS0; SISO

Applied duty cycle correction (AV): 0.6 dB

U-NII-Sub band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	42	5210	5150.0	49.7	PEAK	1000	74.0	24.3	BE-RB	FCC&IC
1	42	5210	5150.0	38.6	AV	1000	54.0	15.4	BE-RB	FCC&IC
3	155	5775	5725.0	65.4	PEAK	1000	122.2	56.8	BE-UE	FCC&IC
3	155	5775	5850.0	63.0	PEAK	1000	122.2	59.2	BE-UE	FCC&IC

WLAN ax-Mode; 20 MHz; MCS0; SISO

Applied duty cycle correction (AV): 1.3 dB

U-NII-Sub band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	36	5180	5150.0	49.9	PEAK	1000	74.0	24.1	BE-RB	FCC&IC
1	36	5180	5150.0	38.9	AV	1000	54.0	15.1	BE-RB	FCC&IC
3	149	5745	5725.0	62.1	PEAK	1000	122.2	60.1	BE-UE	FCC&IC
3	165	5825	5850.0	54.2	PEAK	1000	122.2	68.0	BE-UE	FCC&IC

WLAN ax-Mode; 40 MHz; MCS0; SISO

Applied duty cycle correction (AV): 1.3 dB

U-NII-Sub band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	38	5190	5150.0	51.4	PEAK	1000	74.0	22.6	BE-RB	FCC&IC
1	38	5190	5150.0	40.6	AV	1000	54.0	13.4	BE-RB	FCC&IC
3	151	5755	5725.0	69.8	PEAK	1000	122.2	52.4	BE-UE	FCC&IC
3	159	5795	5850.0	53.5	PEAK	1000	122.2	68.7	BE-UE	FCC&IC

WLAN ax-Mode; 80 MHz; MCS0; SISO

Applied duty cycle correction (AV): 1.3 dB

U-NII-Sub band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
1	42	5210	5150.0	50.0	PEAK	1000	74.0	24.0	BE-RB	FCC&IC
1	42	5210	5150.0	39.4	AV	1000	54.0	14.6	BE-RB	FCC&IC
3	155	5775	5725.0	65.4	PEAK	1000	122.2	56.8	BE-UE	FCC&IC
3	155	5775	5850.0	63.0	PEAK	1000	122.2	59.2	BE-UE	FCC&IC

COMMENT:

- The spectrum analyser transducer "TDF DUT3" contains the attenuation of the measurement cable
- The spectrum analyser transducer contains "HF906_001" contains the antenna factor of the used antenna
- The measurement plot contains no measurement distance correction.
- The correction factor for the difference between measurement distance and limit has been subtracted in the result tables within this chapter.

Example calculation:

Measurement distance: 1.81 m, Limit distance: 3 m

Correction factor: $20 \text{ LOG}(1.81/3) = -4.4 \text{ dB}$

Value in plot: 65.75 dB μ V/m

Value in table: $65.75 \text{ dB}\mu\text{V/m} - 4.4 \text{ dB} = 61.35 \text{ dB}\mu\text{V/m}$

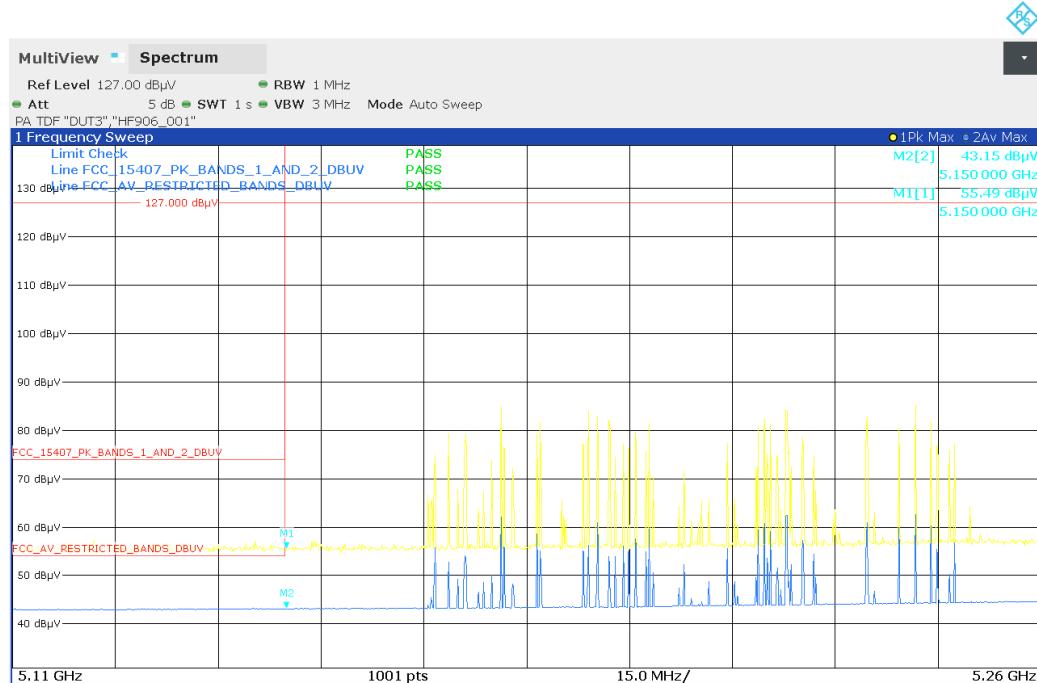
5.4.3.1 RESULTS OF WORST-CASE SEARCH

$D_{\text{STABLE DECREASE}} = 21.0 \text{ m}$

Channel Bandwidth [MHz]	Center Frequency [MHz]	Measurement Distance [m]	Measurement height [m]	Polarisation of receiving antenna	Worst-Case distance from feeding point [m]
20	5180	1.81	1.90	horizontal	8.41
	5200	1.81	1.90	horizontal	8.40
	5240	1.81	1.90	horizontal	8.43
	5745	1.81	1.90	horizontal	9.31
	5785	1.81	1.90	horizontal	9.32
	5825	1.81	1.90	horizontal	9.34
40	5190	1.81	1.90	horizontal	8.40
	5230	1.81	1.90	horizontal	8.43
	5755	1.81	1.90	horizontal	9.32
	5795	1.81	1.90	horizontal	9.33
80	5210	1.81	1.90	horizontal	8.42
	5775	1.81	1.90	horizontal	8.70

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

Noise Level, Ambient, Band Edge = 5150 MHz, Subband = U-NII-1

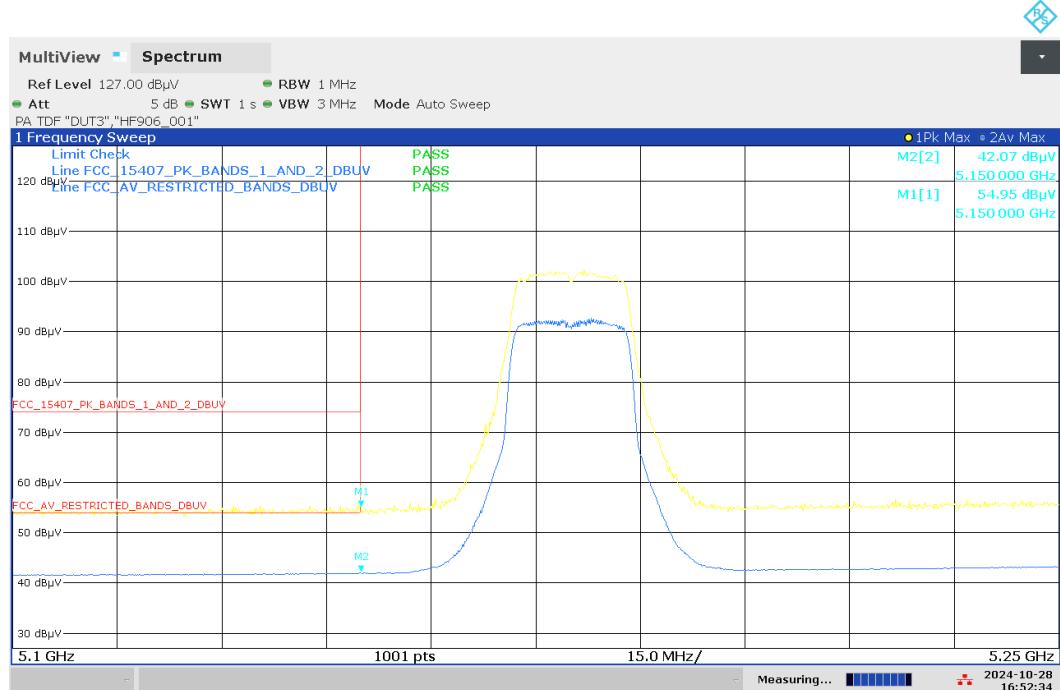


Worst case, this interferer is not permanent visible

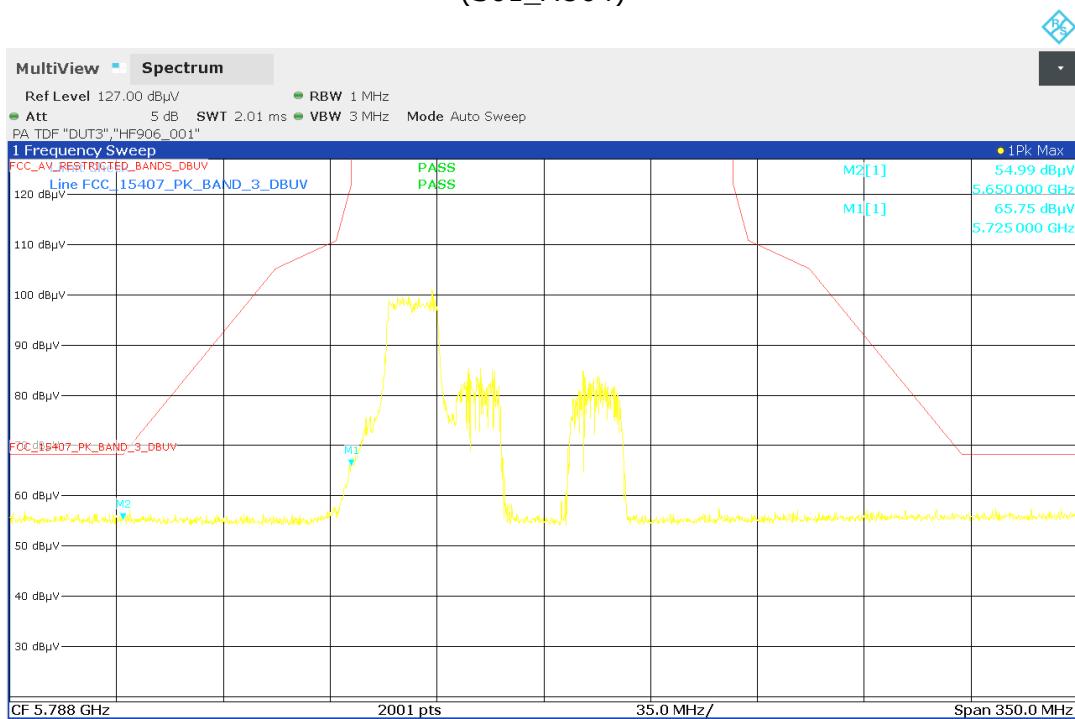
Noise Level, Ambient, Band Edge = 5150 MHz, Subband = U-NII-1



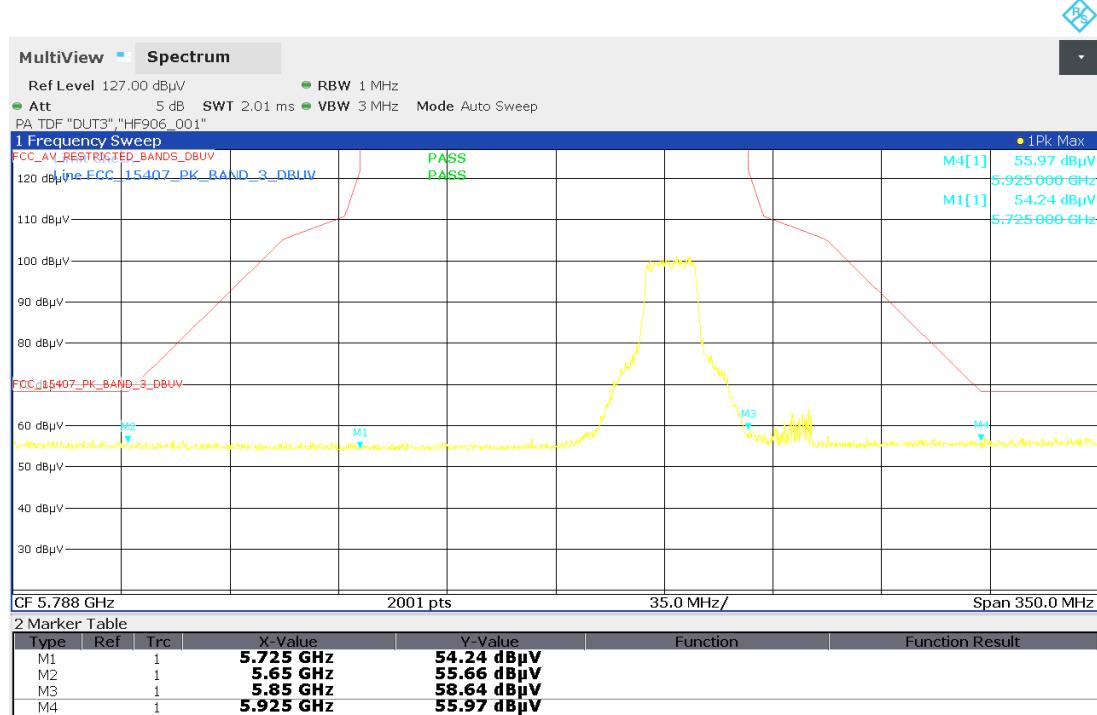
Radio Technology = WLAN a, Operating Frequency = low, Subband = U-NII-1
(S01_AO04)



Radio Technology = WLAN a, Operating Frequency = low, Subband = U-NII-3
(S01_AO04)

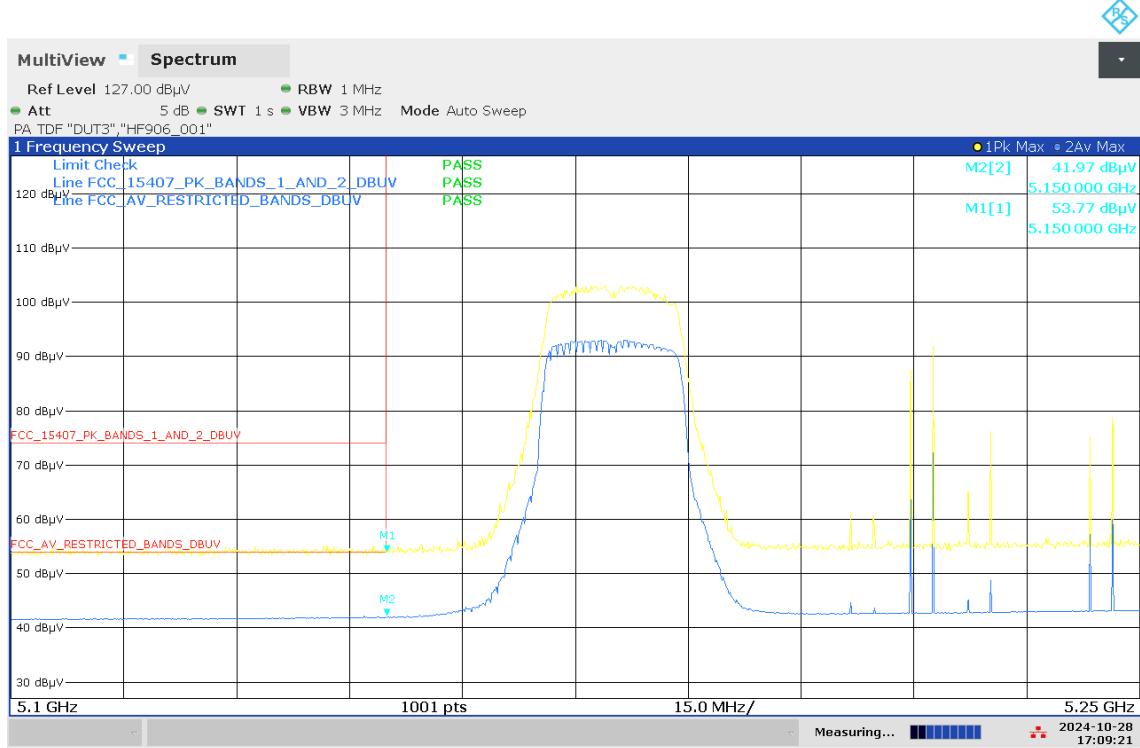


Radio Technology = WLAN a, Operating Frequency = high, Subband = U-NII-3
 (S01_AO04)



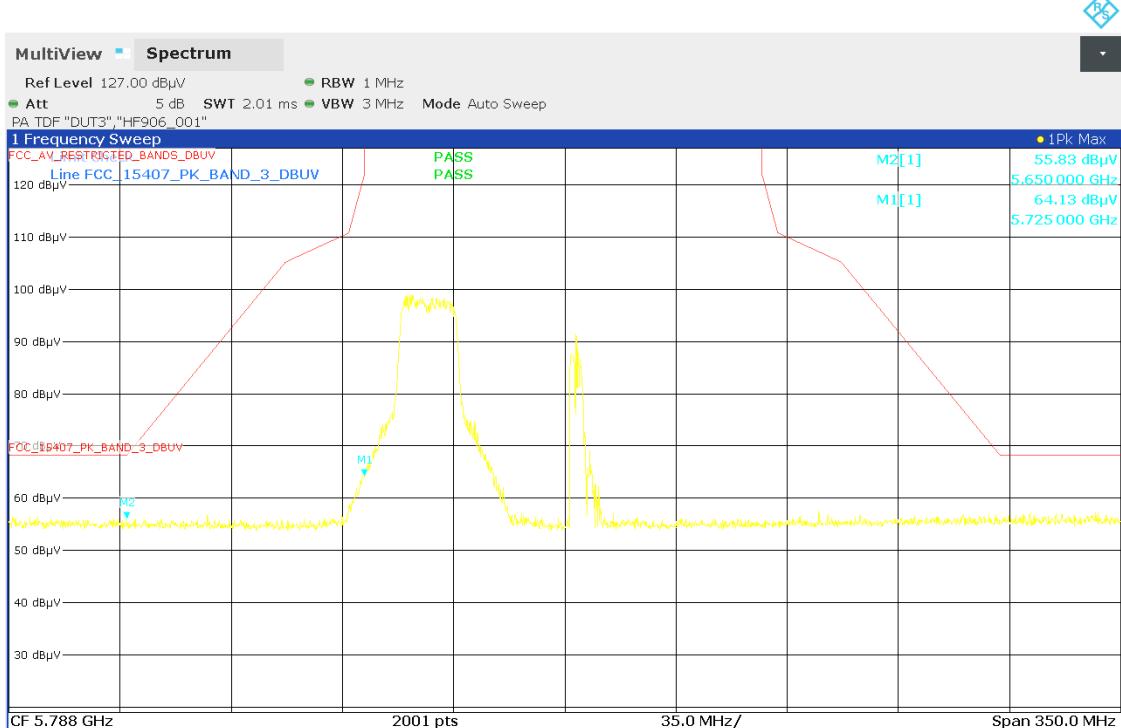
09:50:29 AM 10/29/2024

Radio Technology = WLAN n 20 MHz, Operating Frequency = low, Subband = U-NII-1
 (S02_AO04)



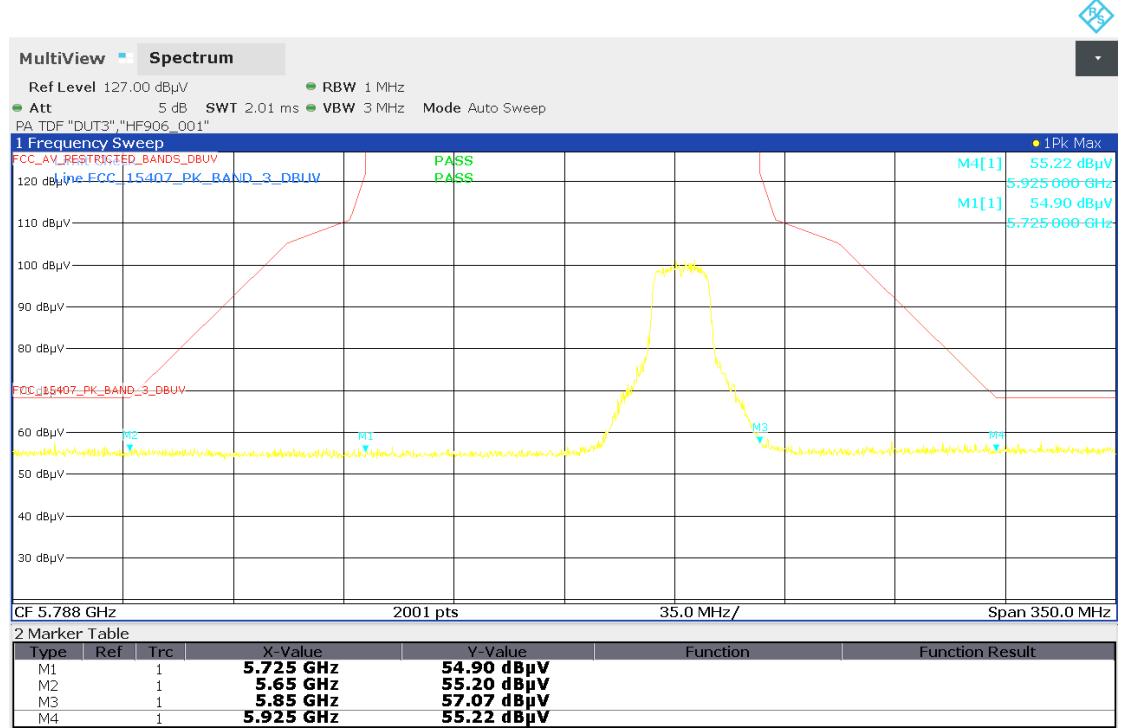
05:09:22 PM 10/28/2024

Radio Technology = WLAN n 20 MHz, Operating Frequency = low, Subband = U-NII-3
(S02_AO04)



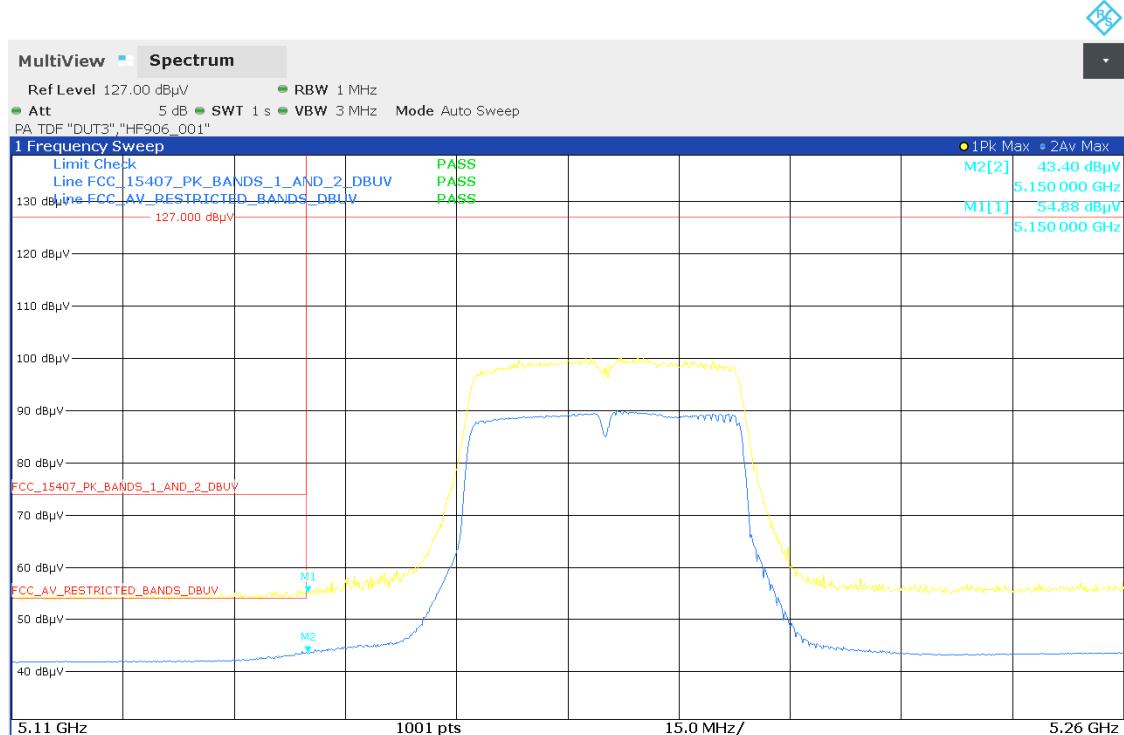
09:14:43 AM 10/29/2024

Radio Technology = WLAN n 20 MHz, Operating Frequency = high, Subband = U-NII-3
(S02_AO04)



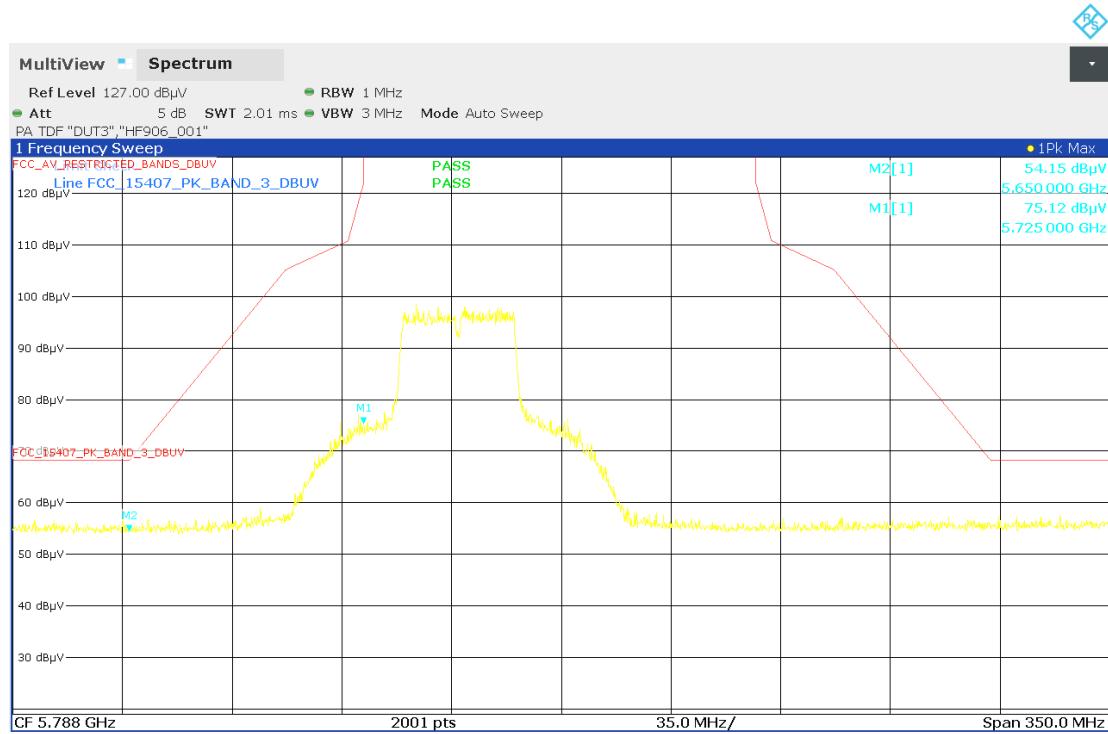
09:53:41 AM 10/29/2024

Radio Technology = WLAN n 40 MHz, Operating Frequency = low, Subband = U-NII-1
(S02_AO04)



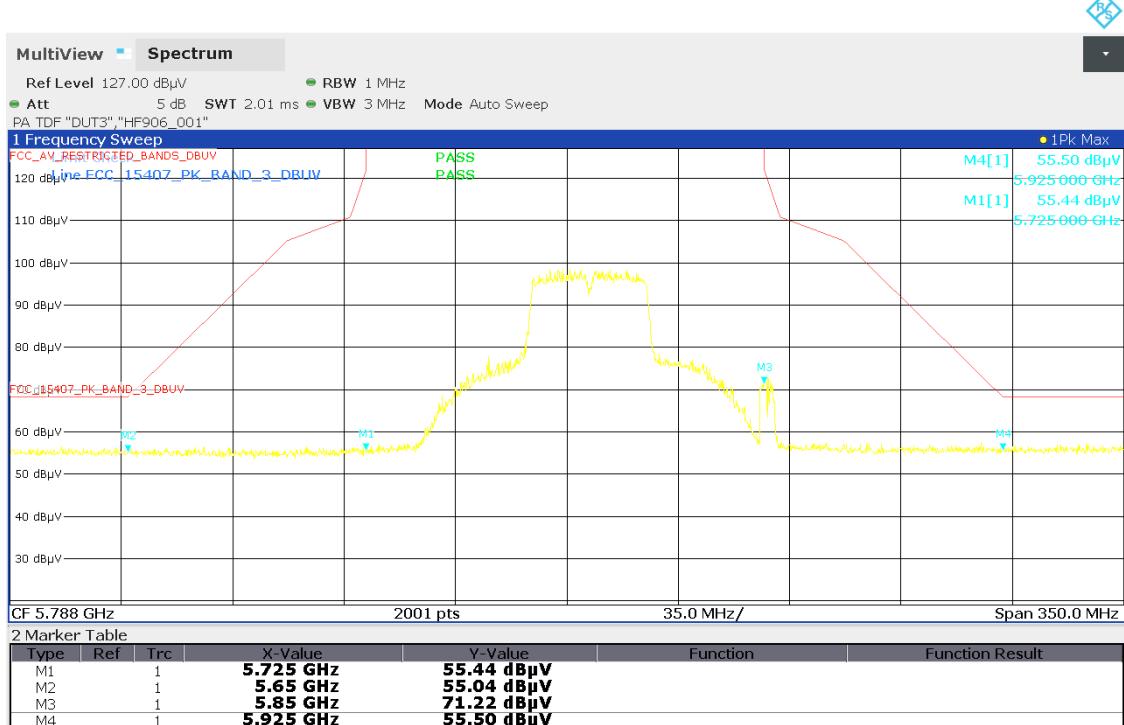
08:46:16 AM 10/29/2024

Radio Technology = WLAN n 40 MHz, Operating Frequency = low, Subband = U-NII-3
(S02_AO04)



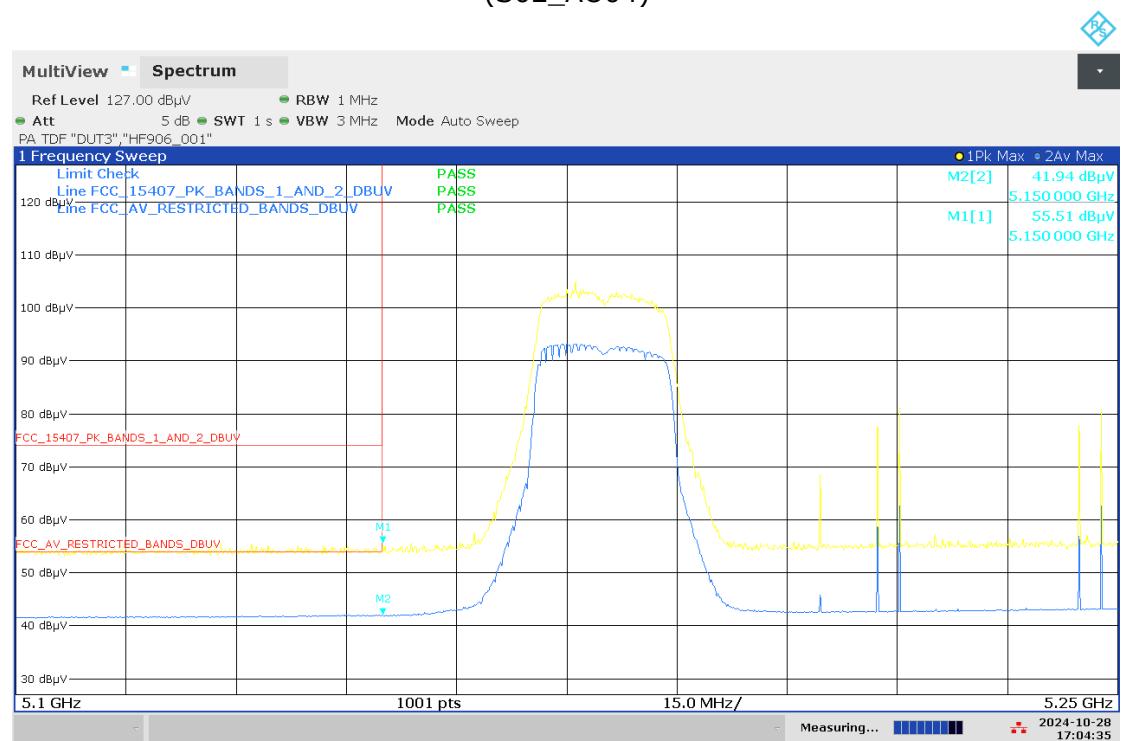
09:32:25 AM 10/29/2024

Radio Technology = WLAN n 40 MHz, Operating Frequency = high, Subband = U-NII-3
(S02_AO04)



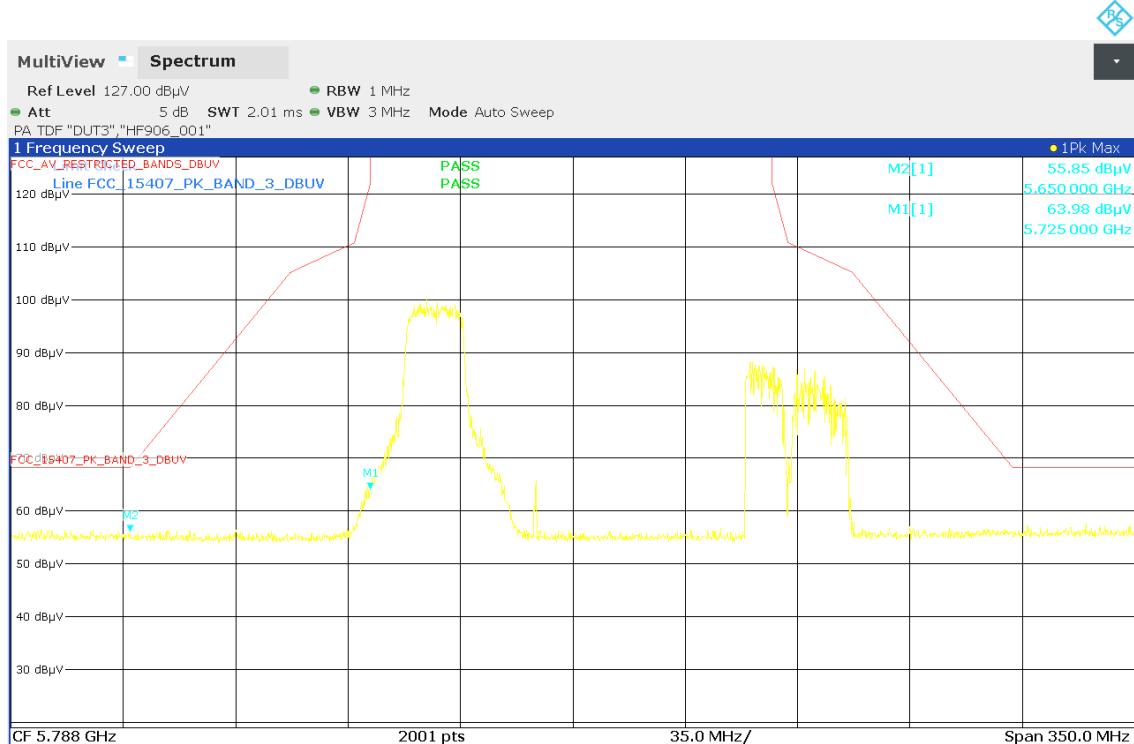
10:04:29 AM 10/29/2024

Radio Technology = WLAN ac 20 MHz, Operating Frequency = low, Subband = U-NII-1
(S02_AO04)



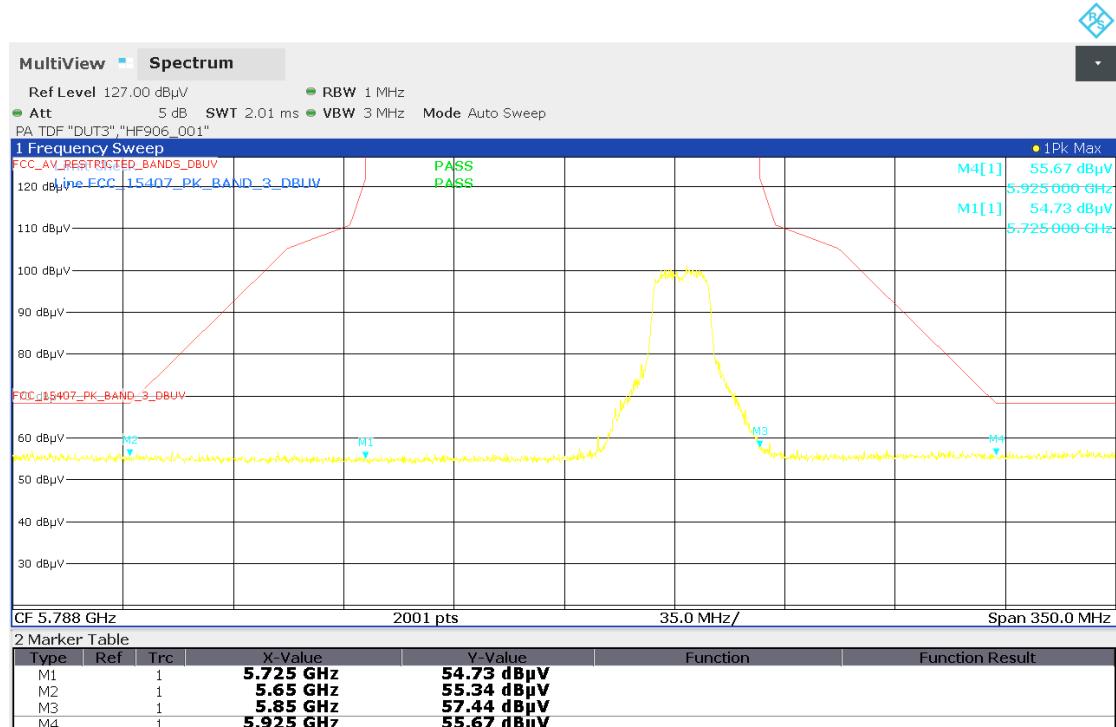
05:04:35 PM 10/28/2024

Radio Technology = WLAN ac 20 MHz, Operating Frequency = low, Subband = U-NII-3
(S02_AO04)



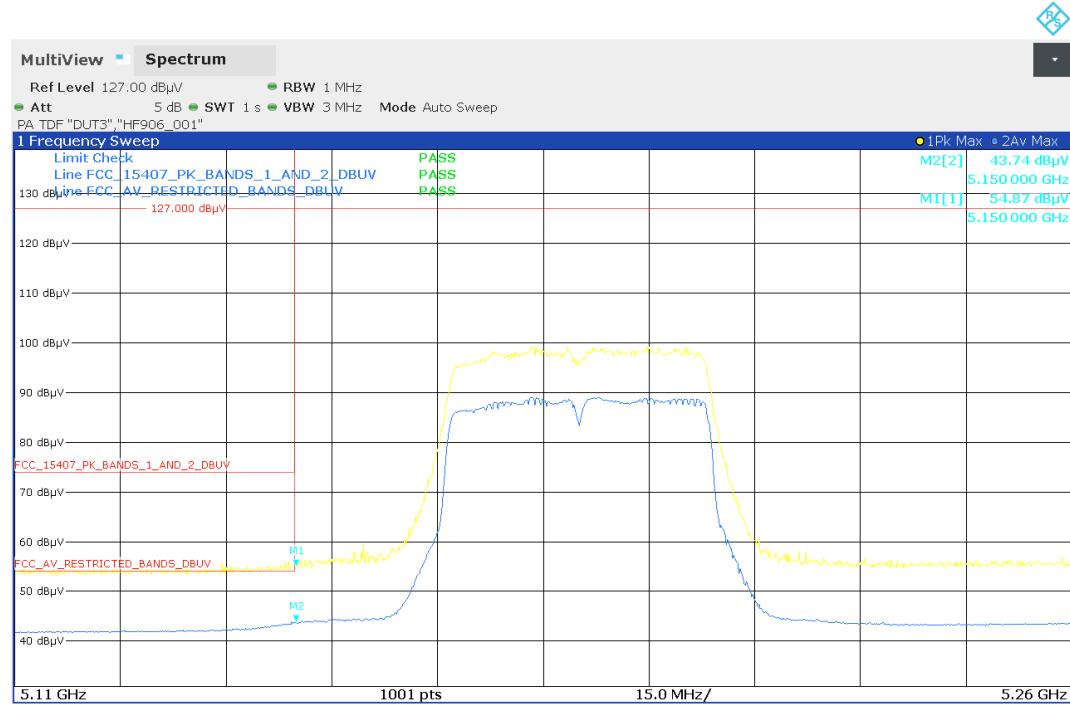
09:19:18 AM 10/29/2024

Radio Technology = WLAN ac 20 MHz, Operating Frequency = high, Subband = U-NII-3
(S02_AO04)



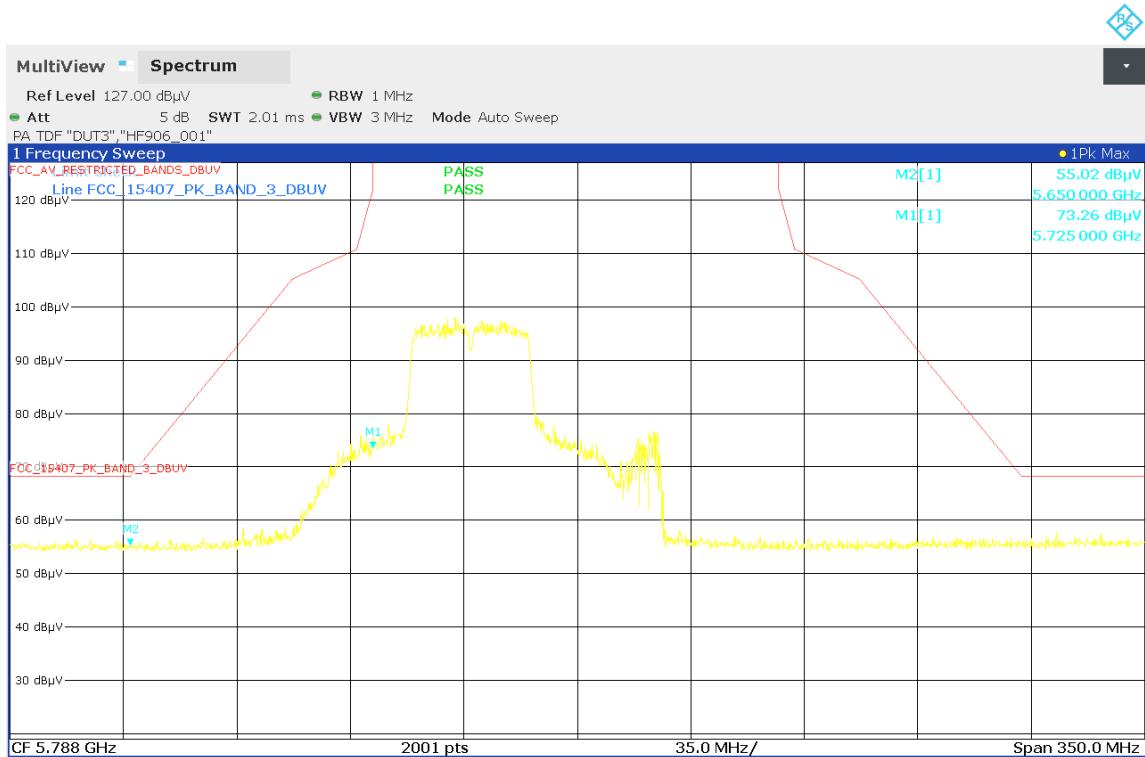
09:57:28 AM 10/29/2024

Radio Technology = WLAN ac 40 MHz, Operating Frequency = low, Subband = U-NII-1
(S02_AO04)



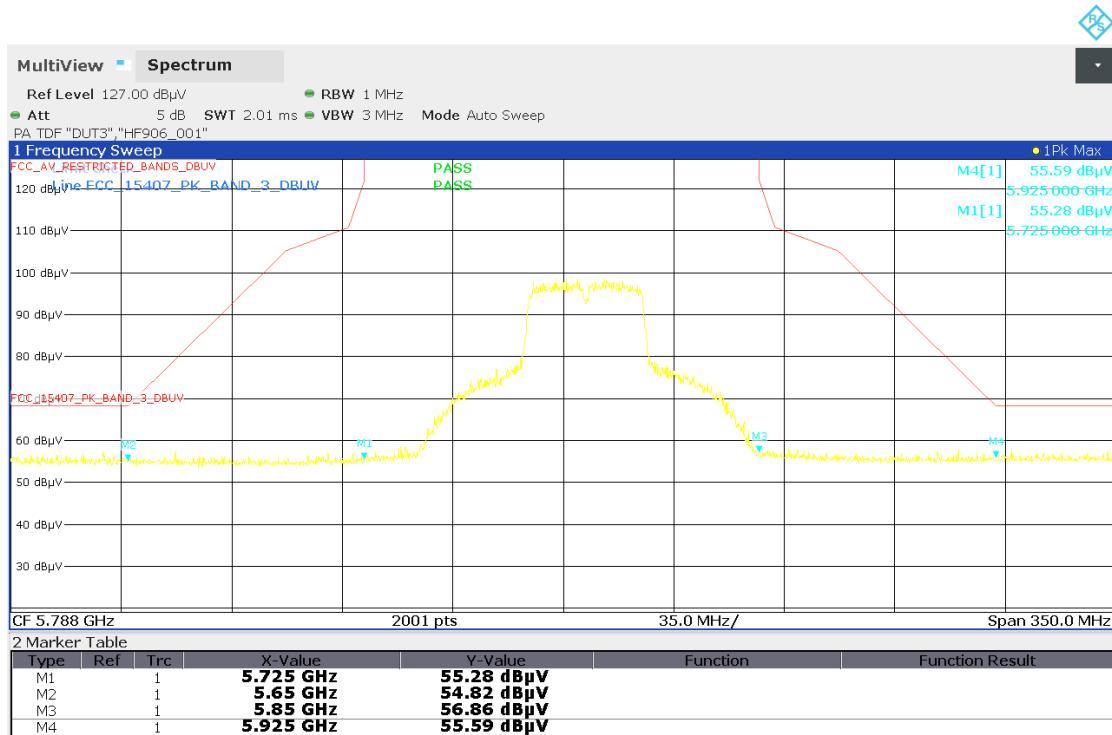
08:49:25 AM 10/29/2024

Radio Technology = WLAN ac 40 MHz, Operating Frequency = low, Subband = U-NII-3
(S02_AO04)



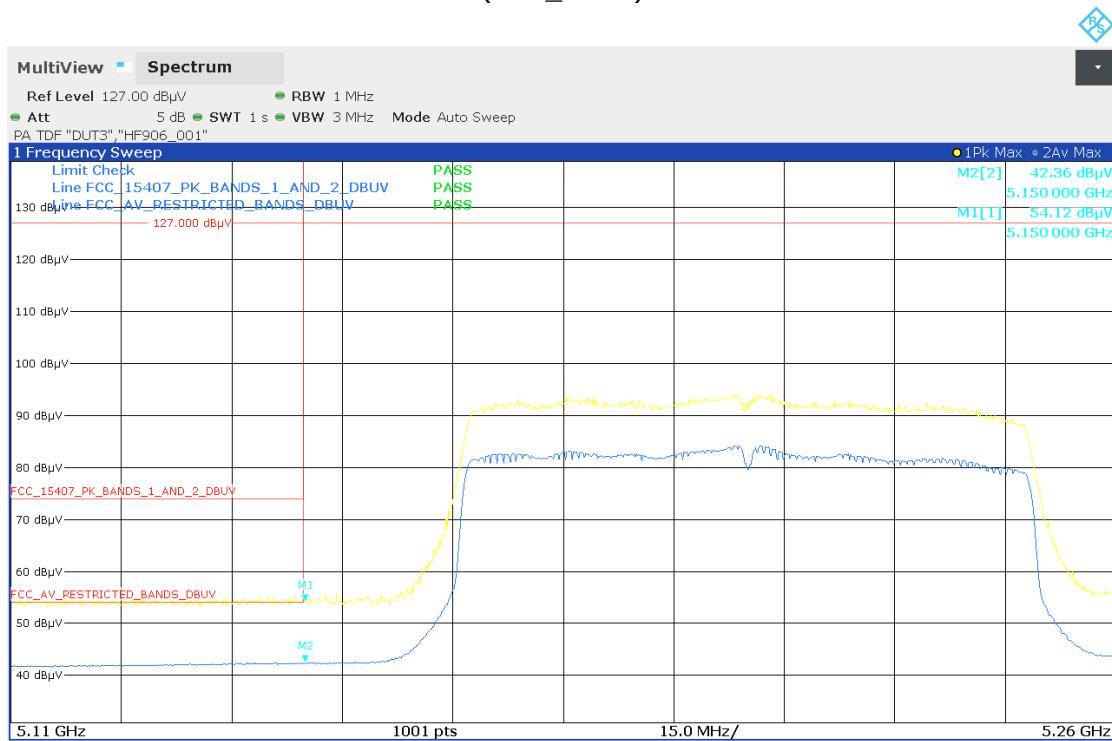
09:35:41 AM 10/29/2024

Radio Technology = WLAN ac 40 MHz, Operating Frequency = high, Subband = U-NII-3
(S02_AA04)



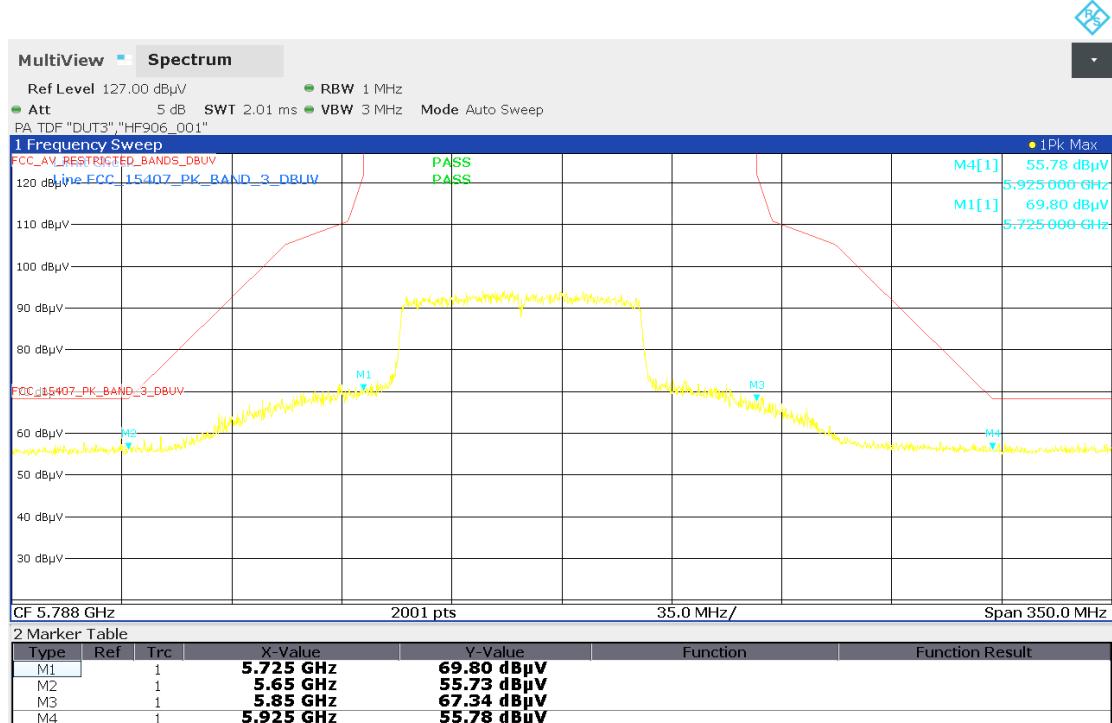
10:09:05 AM 10/29/2024

Radio Technology = WLAN ac 80 MHz, Operating Frequency = low, Subband = U-NII-1
(S02_AA01)



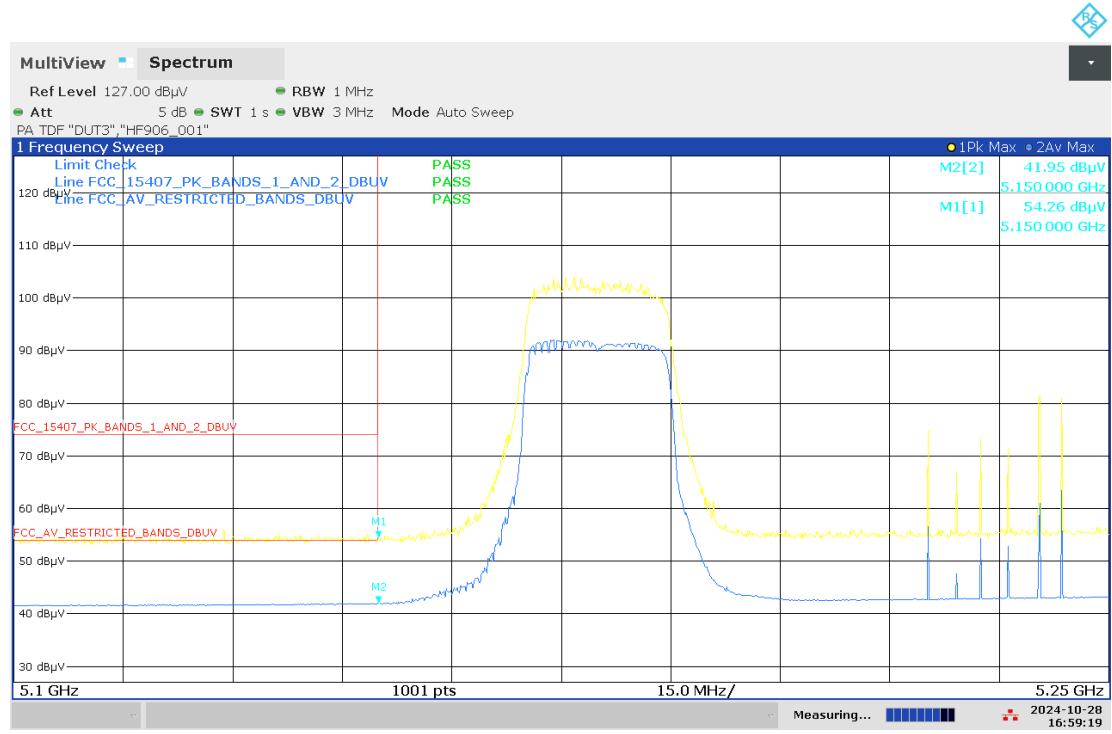
08:55:28 AM 10/29/2024

Radio Technology = WLAN ac 80 MHz, Operating Frequency = mid, Subband = U-NII-3
(S02_AA01)



09:43:48 AM 10/29/2024

Radio Technology = WLAN ax 20 MHz, Operating Frequency = low, Subband = U-NII-1
(S02_AA04)



04:59:19 PM 10/28/2024