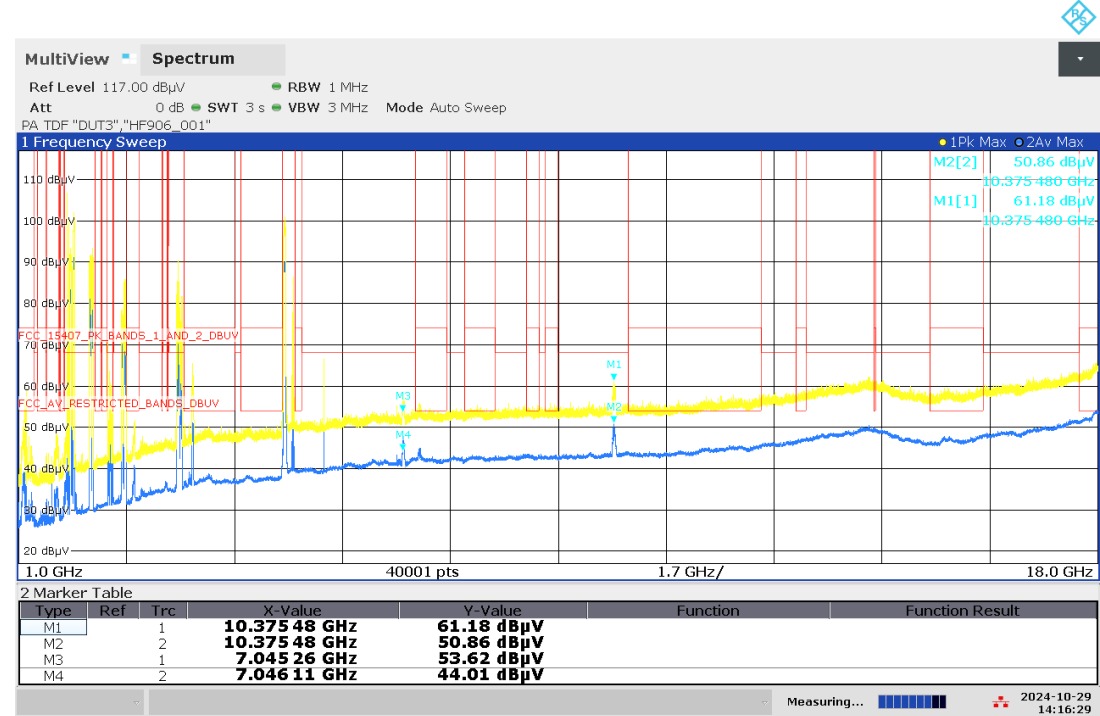
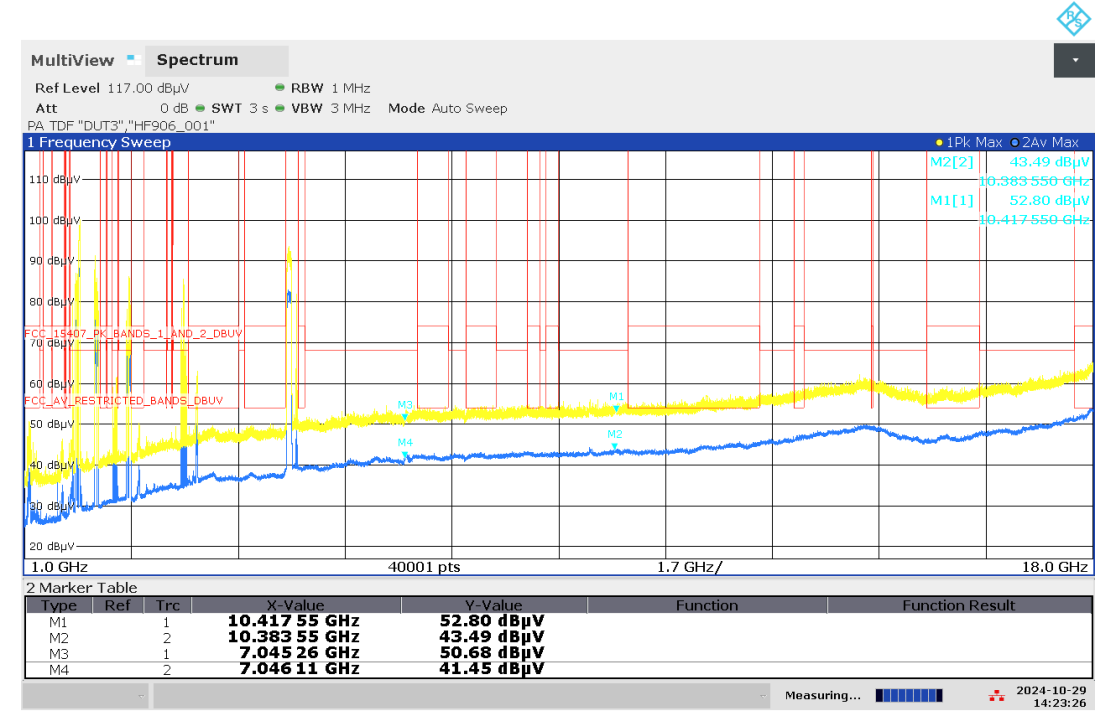


Radio Technology = WLAN ax 40, Operating Frequency = low, Subband = U-NII-1,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S01_AO04)



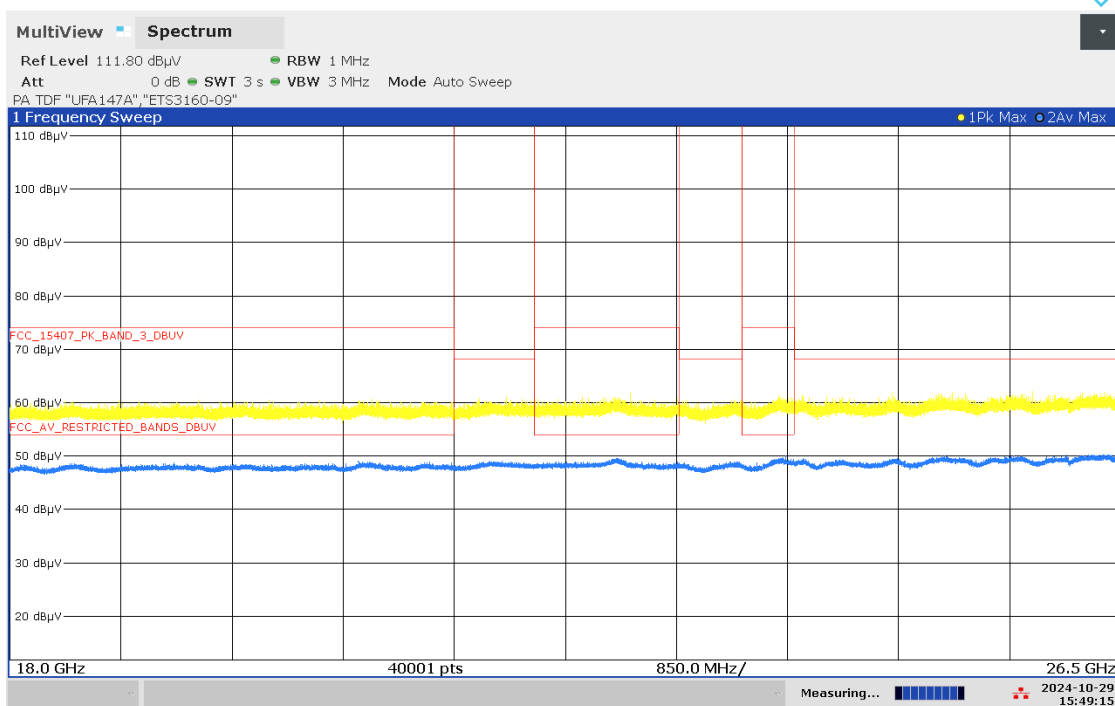
02:16:30 PM 10/29/2024

Radio Technology = WLAN ax 80, Operating Frequency = mid, Subband = U-NII-1,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S01_AO04)



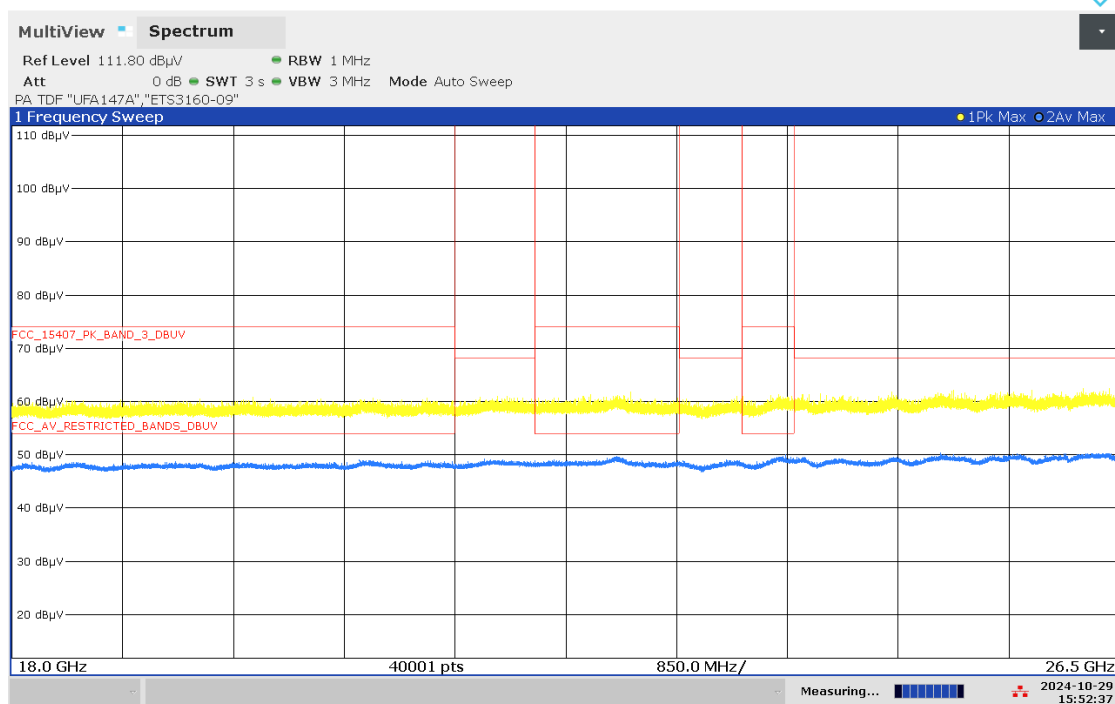
02:23:27 PM 10/29/2024

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



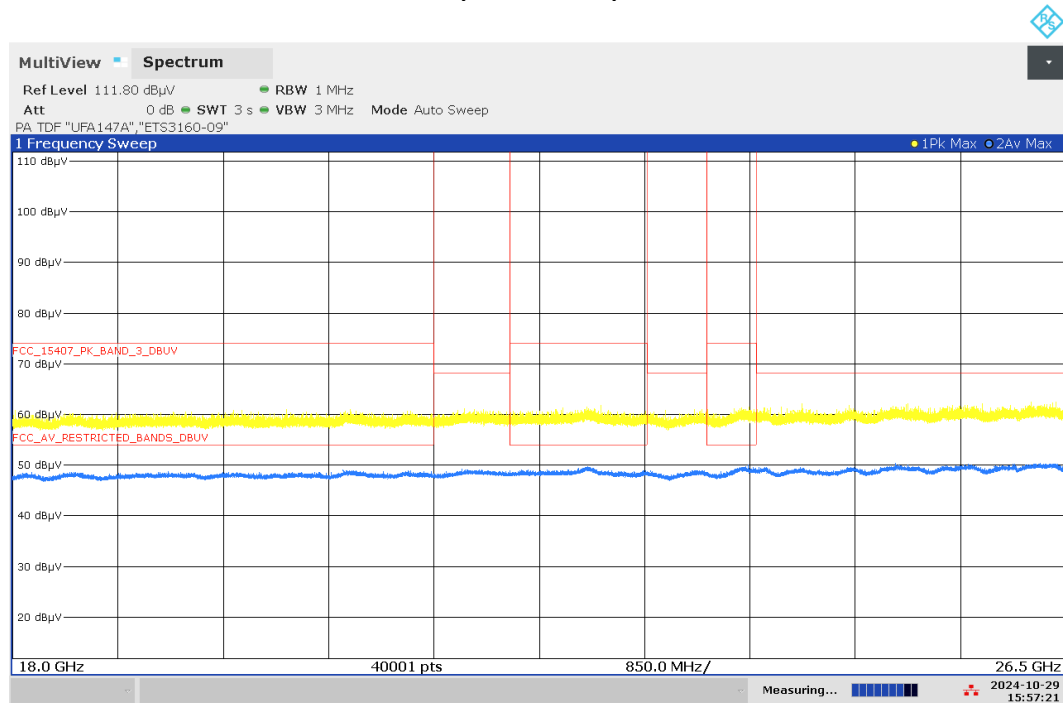
03:49:15 PM 10/29/2024

Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-1,
Frequency Range = 18 GHz – 26.5 GHz, Polarisation = horizontal
(S01_AO04)



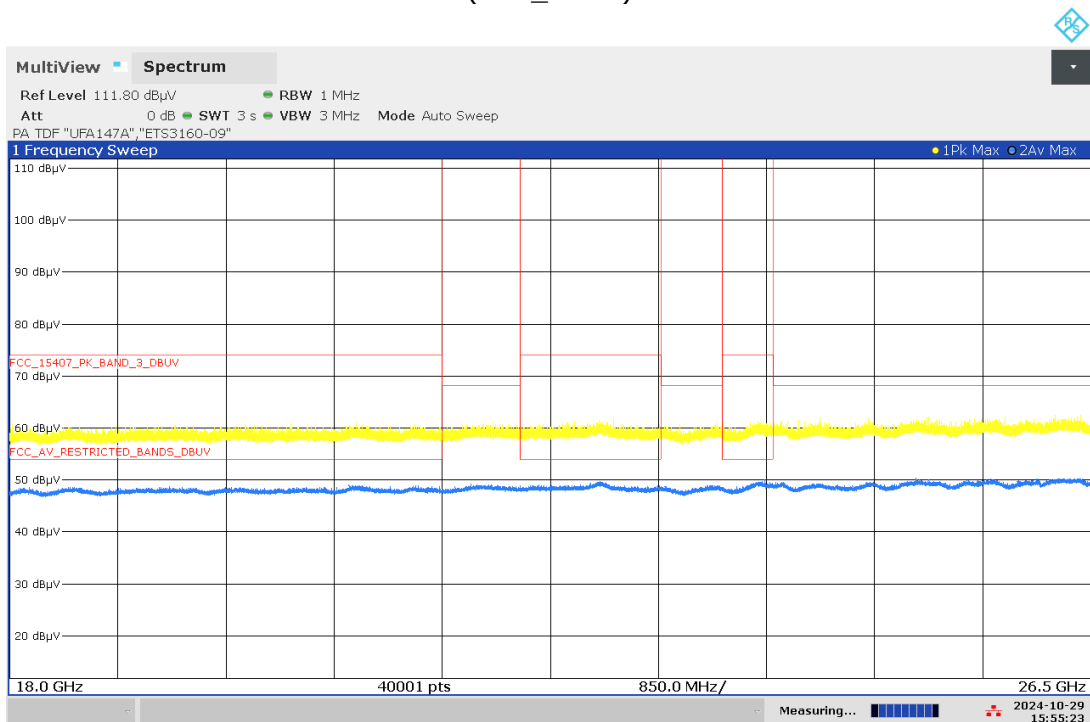
03:52:38 PM 10/29/2024

Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-3,
Frequency Range = 18 GHz – 26.5 GHz, Polarisation = horizontal
(S01_A004)



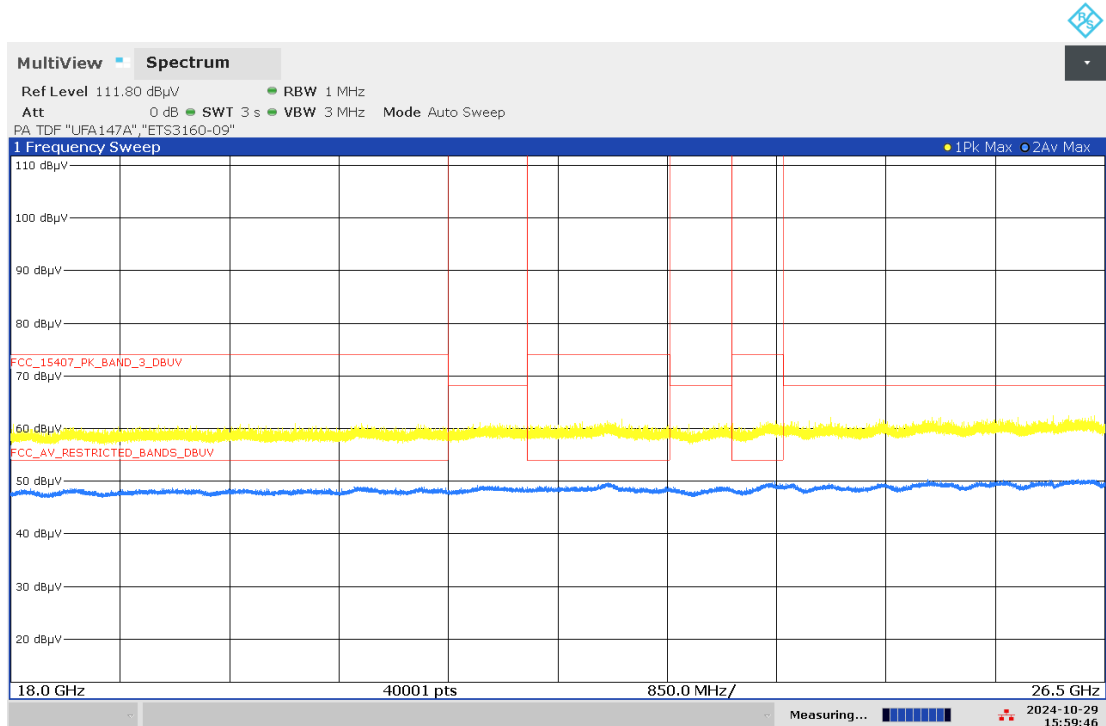
03:57:22 PM 10/29/2024

Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-1,
Frequency Range = 18 GHz – 26.5 GHz, Polarisation = horizontal
(S01_A004)



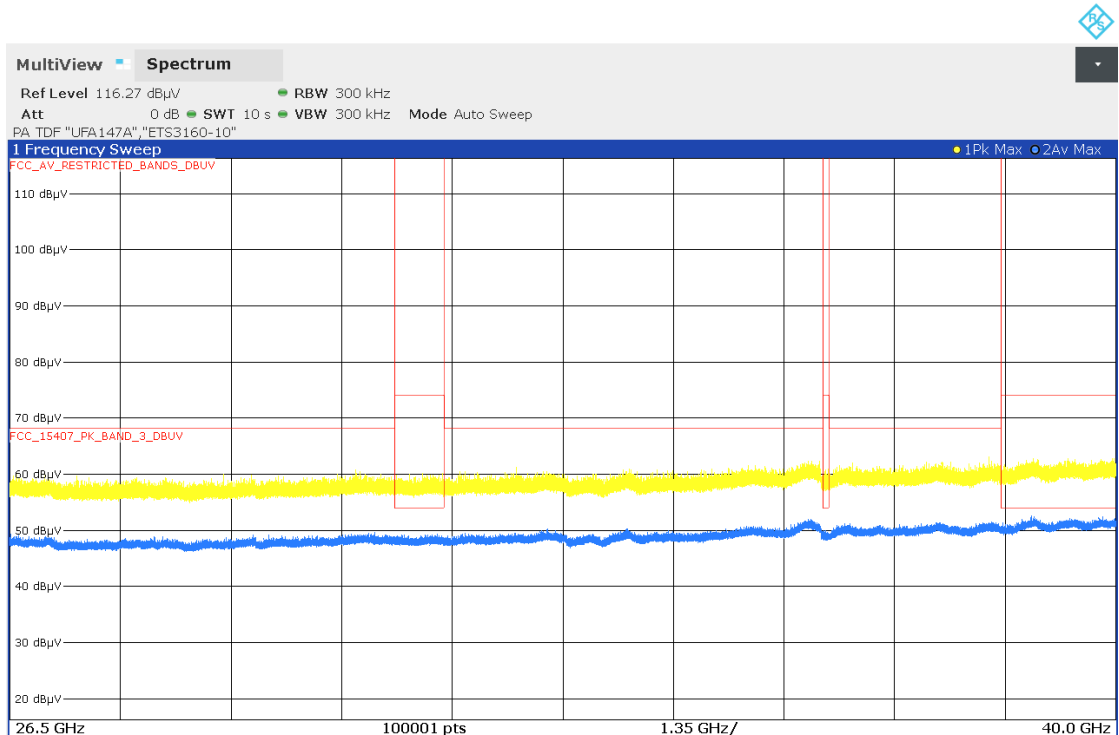
03:55:23 PM 10/29/2024

Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-3,
Frequency Range = 18 GHz – 26.5 GHz, Polarisation = horizontal
(S01_AO04)



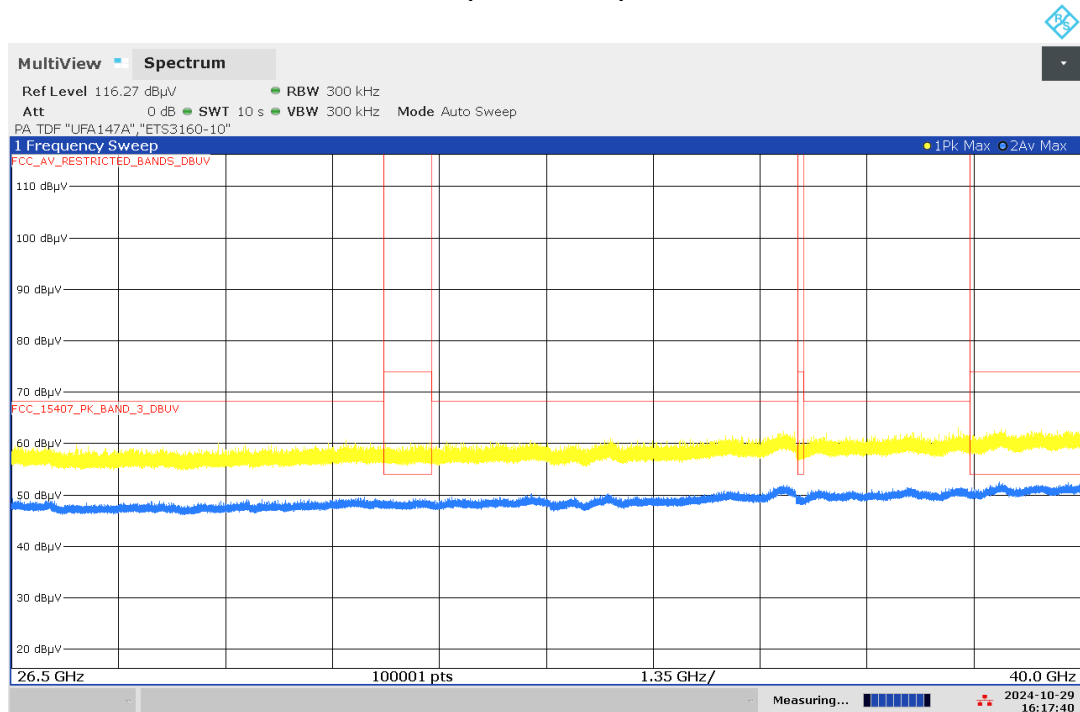
03:59:46 PM 10/29/2024

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



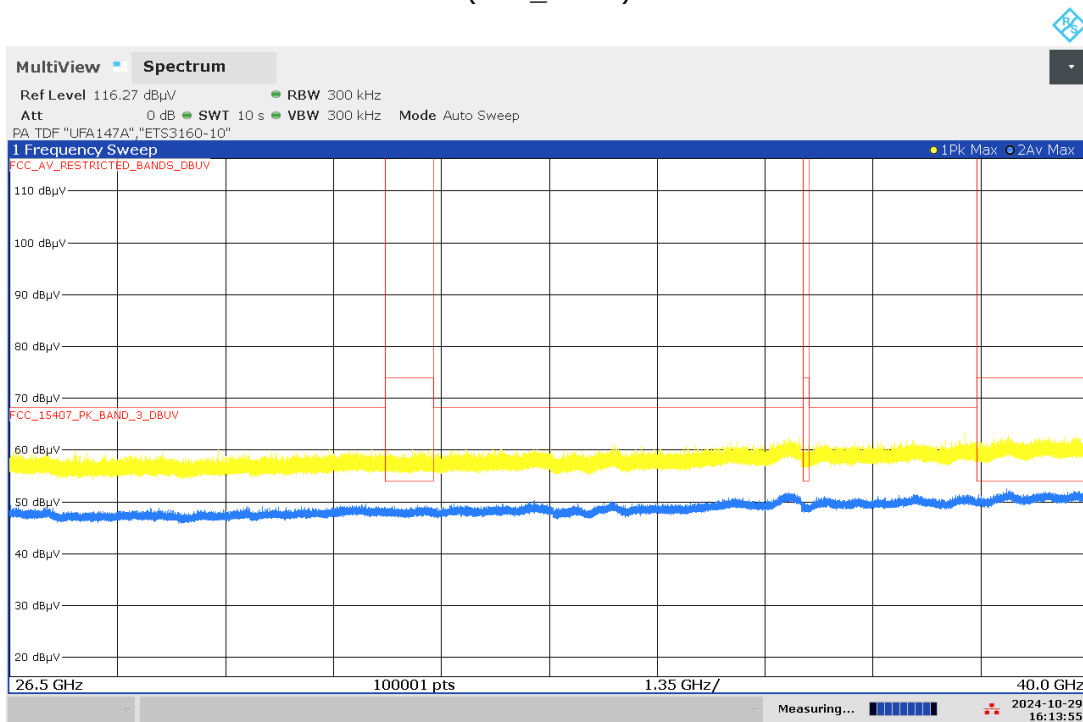
04:24:03 PM 10/29/2024

Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-1,
Frequency Range = 26.5 GHz -40 GHz, Polarisation = horizontal
(S01_AO04)



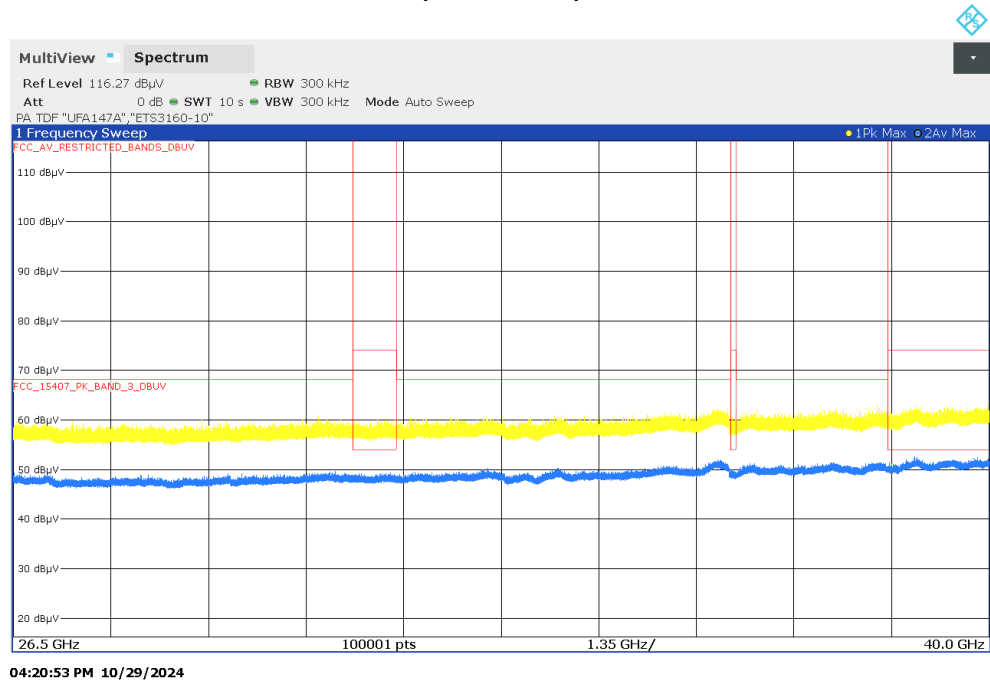
04:17:40 PM 10/29/2024

Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-3,
Frequency Range = 26.5 GHz -40 GHz, Polarisation = horizontal
(S01_AO04)

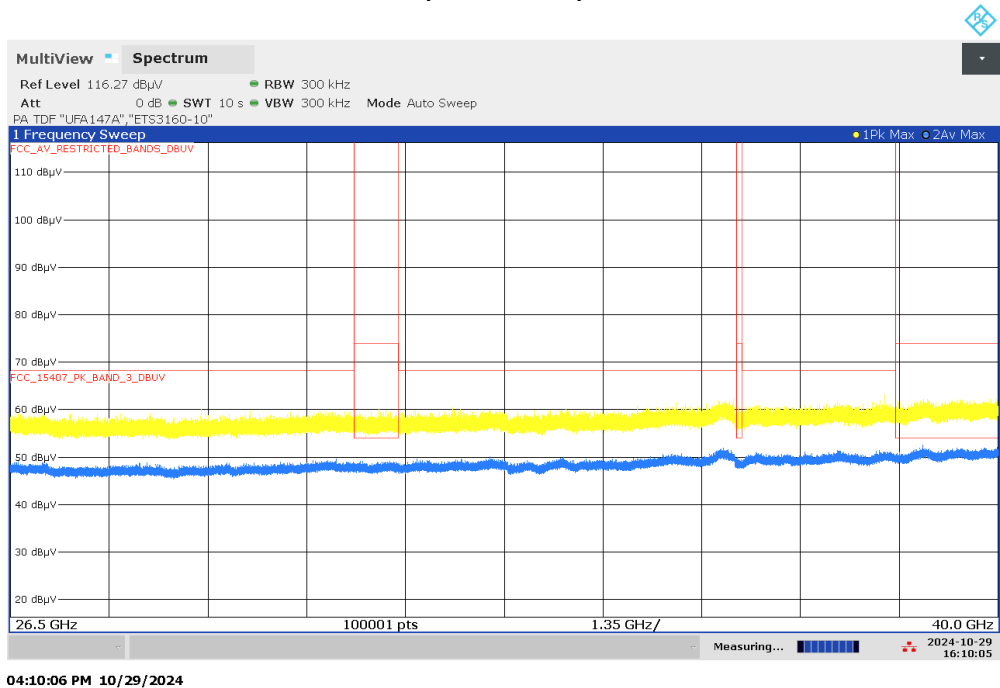


04:13:56 PM 10/29/2024

Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-1,
Frequency Range = 26.5 GHz -40 GHz, Polarisation = horizontal
(S01_AO04)



Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-3,
Frequency Range = 26.5 GHz -40 GHz, Polarisation = horizontal
(S01_AO04)



5.3.4 TEST PROTOCOL - ERLANGEN

Ambient temperature: 20 °C
 Air Pressure: 992 hPa
 Humidity: 46 %

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 [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/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 [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/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 [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/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 [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/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 [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/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 [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/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 [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/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 [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/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 [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type
-	-	-	-	-	-	-	-	-

COMMENT:

- There have not been 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 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: 7 m, Limit distance: 3.0 m
Correction factor: $20 \text{ LOG}(7/3) = 7.4 \text{ dB}$
Value in plot: 65.75 dBμV/m
Value in table: $65.75 \text{ dBμV/m} + 7.4 \text{ dB} = 73.15 \text{ dBμV/m}$
- Due to the bigger measurement distance, the plots in following frequency ranges have been splitted in several plots, because the RBW and the VBW must be adapted to keep the noise value below the limit. The detailed analyser settings for each frequency range can be found directly in the analyser plots:
 - 1 GHz – 18 GHz; 1 GHz – 13 GHz, 13 GHz – 18 GHz
 - 26.5 GHz – 40 GHz; 26.5 GHz – 31.5 GHz, 31.5 GHz- 36.5 GHz, 36.5 GHz – 38.5 GHz, 38.5 GHz – 40.0 GHz

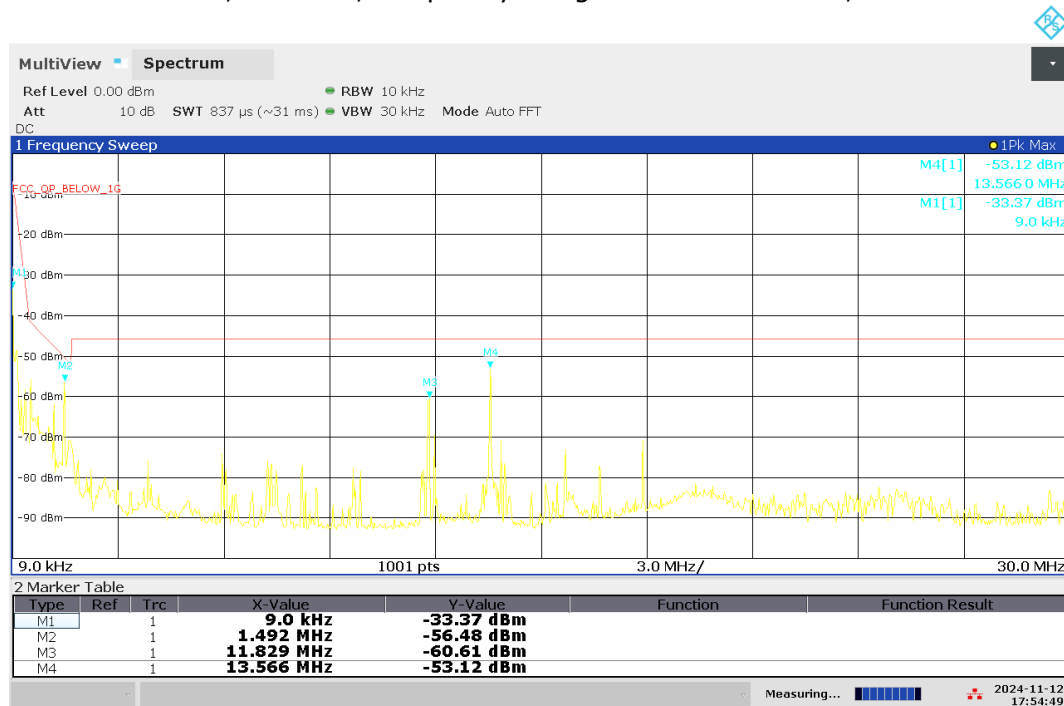
5.3.4.1 RESULTS OF WORST-CASE SEARCH

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

Worst- case receiving antenna polarisation: horizontal

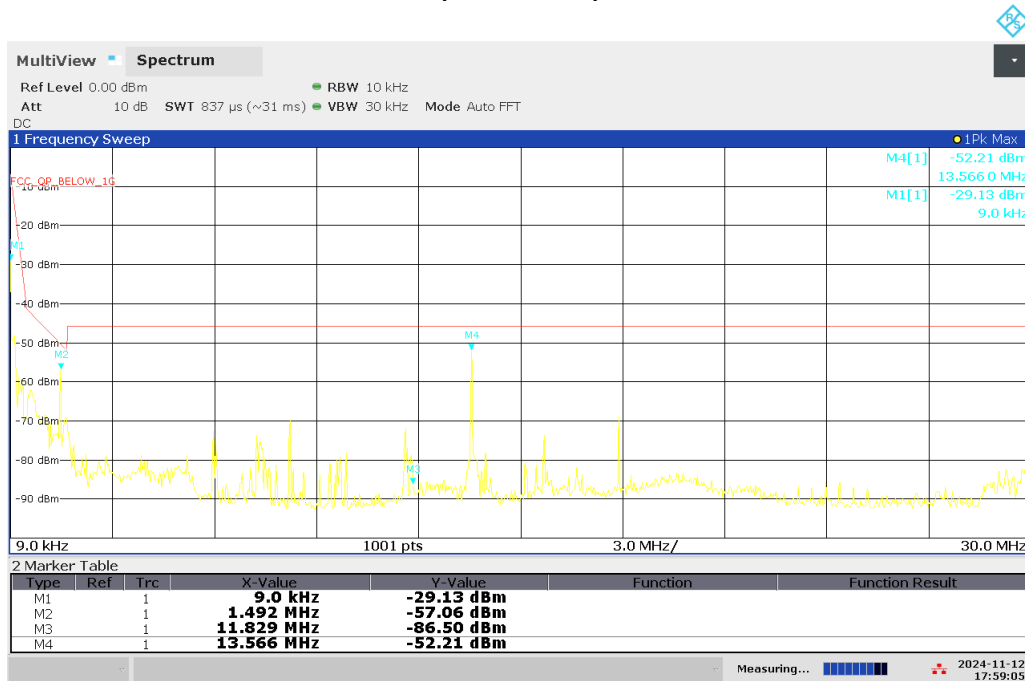
5.3.4.2 MEASUREMENT PLOT (EXAMPLE PLOT, SHOWING WORST CASE, IF APPLICABLE)

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



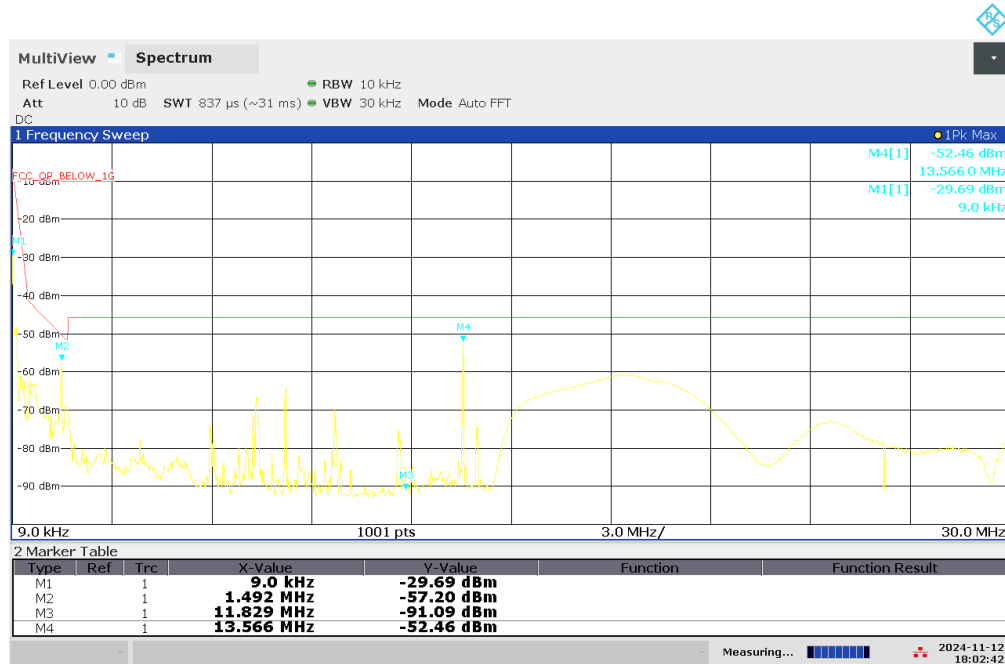
05:54:50 PM 11/12/2024

Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-1,
Frequency Range = 9 kHz – 30 MHz, three-axes
(S02_AO04)



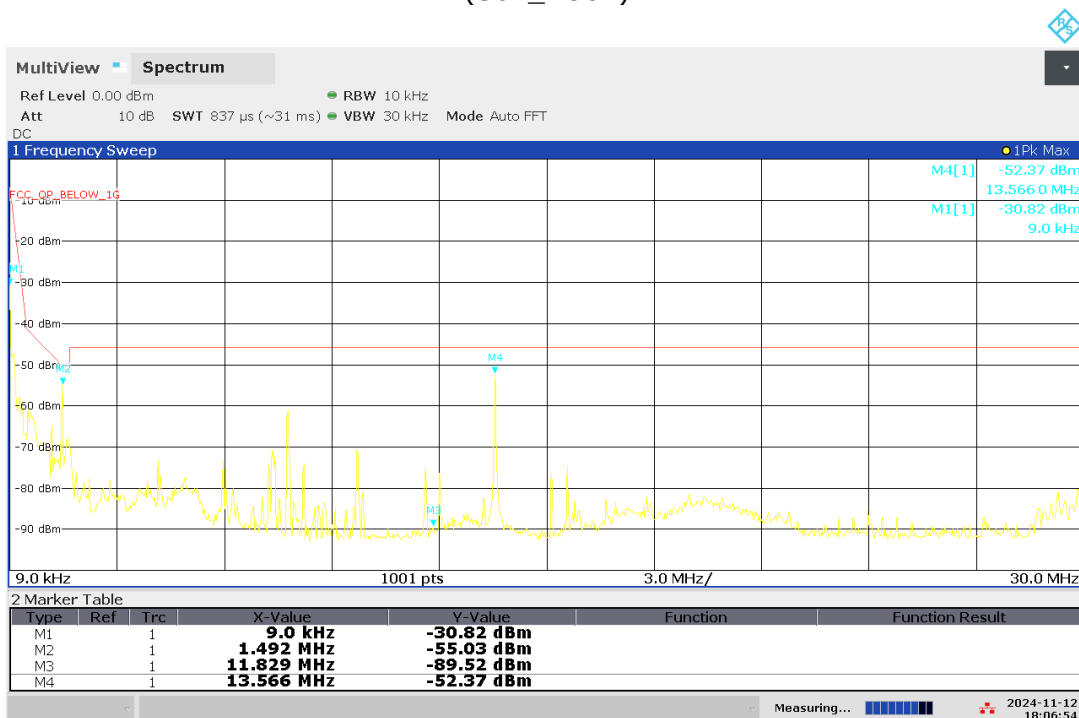
05:59:05 PM 11/12/2024

Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-3,
Frequency Range = 9 kHz – 30 MHz, three-axes
(S02_AO04)



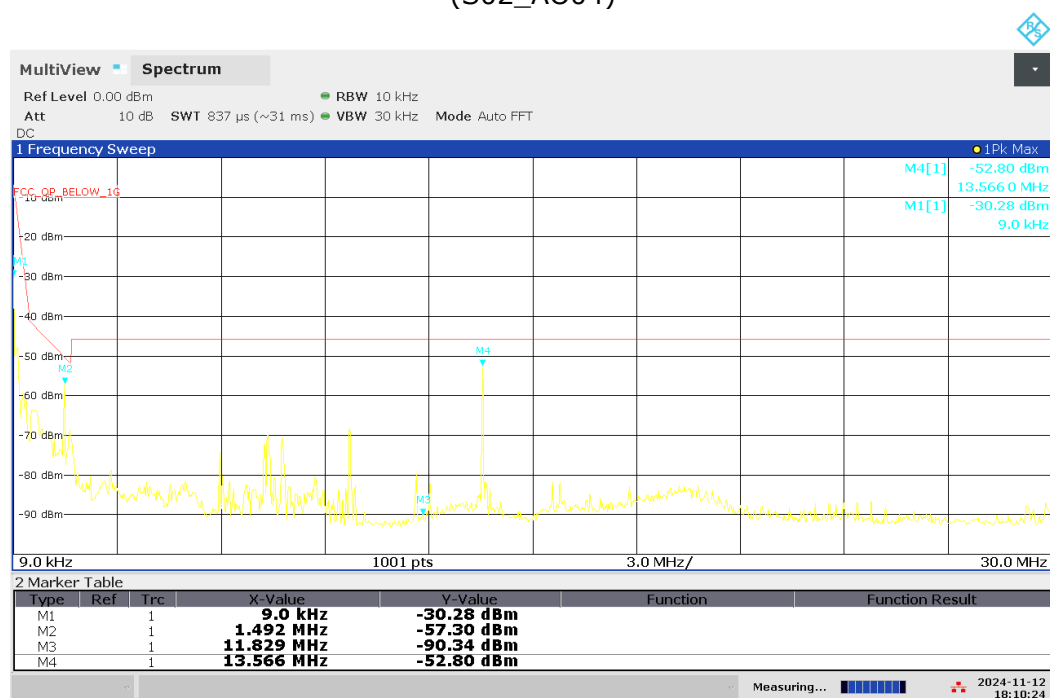
06:02:43 PM 11/12/2024

Radio Technology = WLAN ax 20 MHz, Operating Frequency = mid, Subband = U-NII-1
Frequency Range = 9 kHz – 30 MHz, three-axes
(S02_AO04)



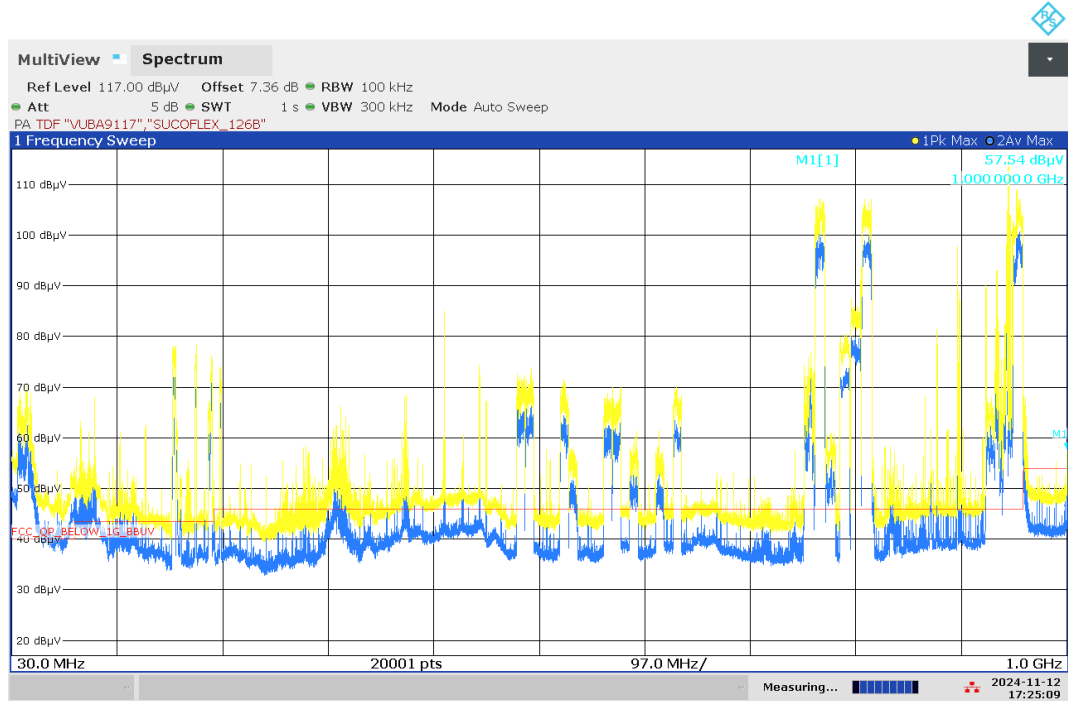
06:06:55 PM 11/12/2024

Radio Technology = WLAN ax 20 MHz, Operating Frequency = mid, Subband = U-NII-3
Frequency Range = 9 kHz – 30 MHz, three-axes
(S02_AO04)



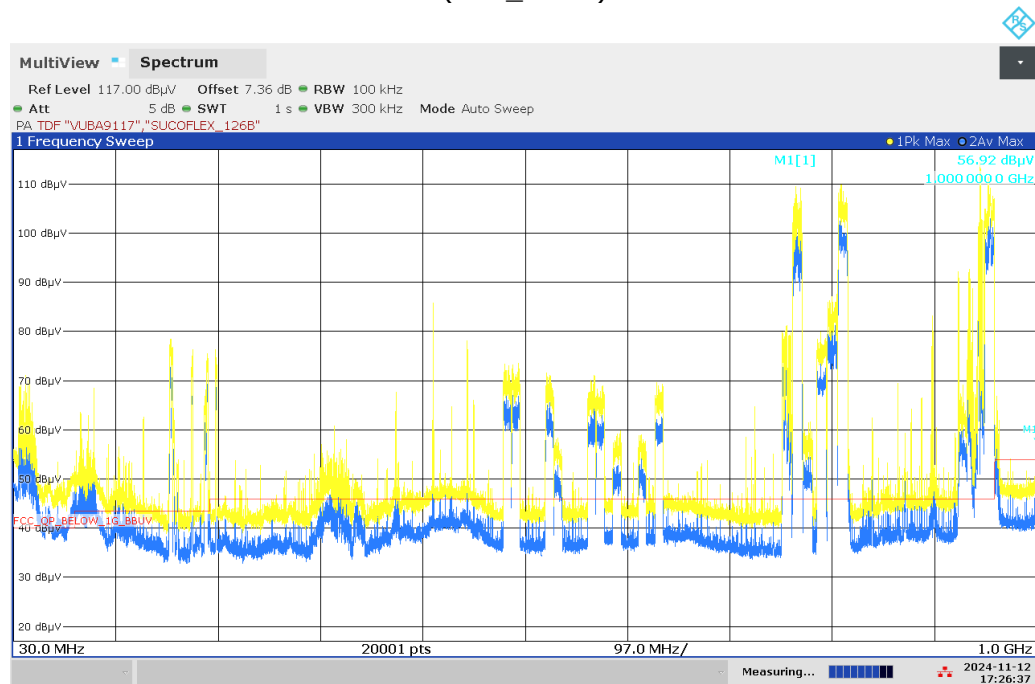
06:10:24 PM 11/12/2024

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



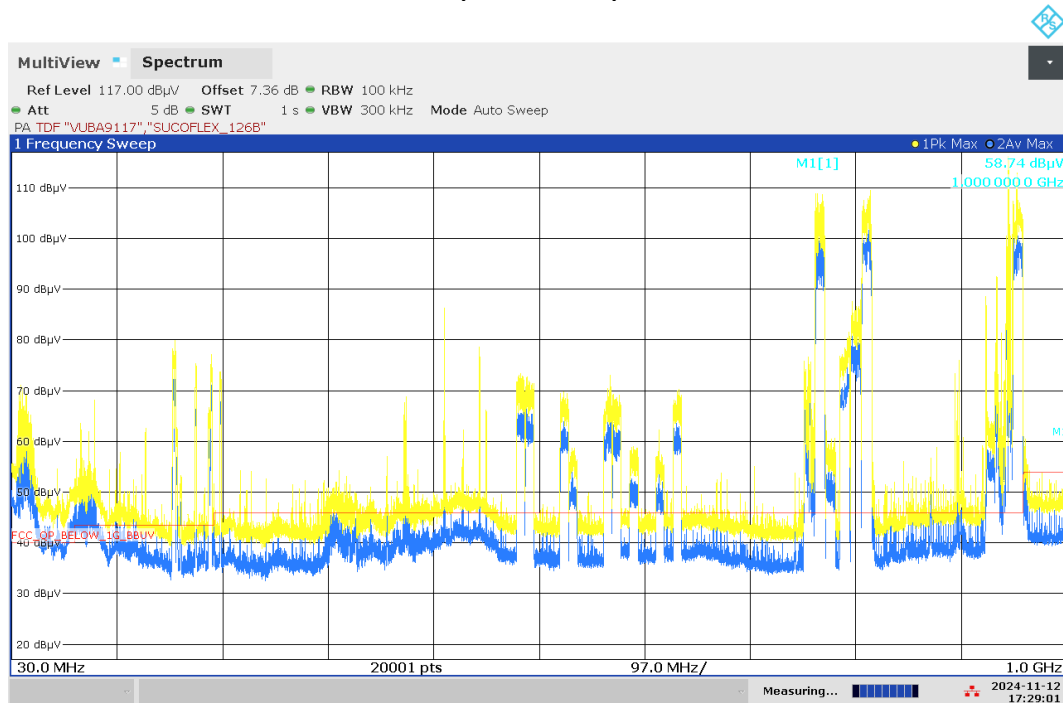
05:25:10 PM 11/12/2024

Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-1,
Frequency Range = 30 MHz - 1 GHz, Polarisation = horizontal
(S02_A004)



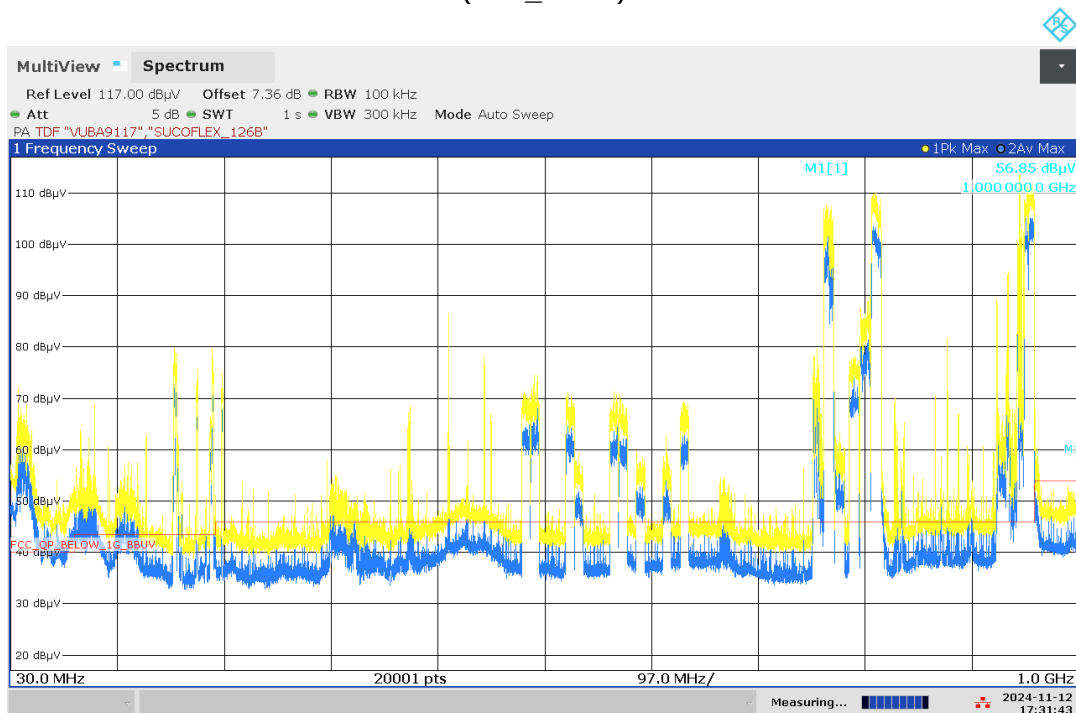
05:26:37 PM 11/12/2024

Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-3,
Frequency Range = 30 MHz – 1 GHz, Polarisation = horizontal
(S02_AO04)



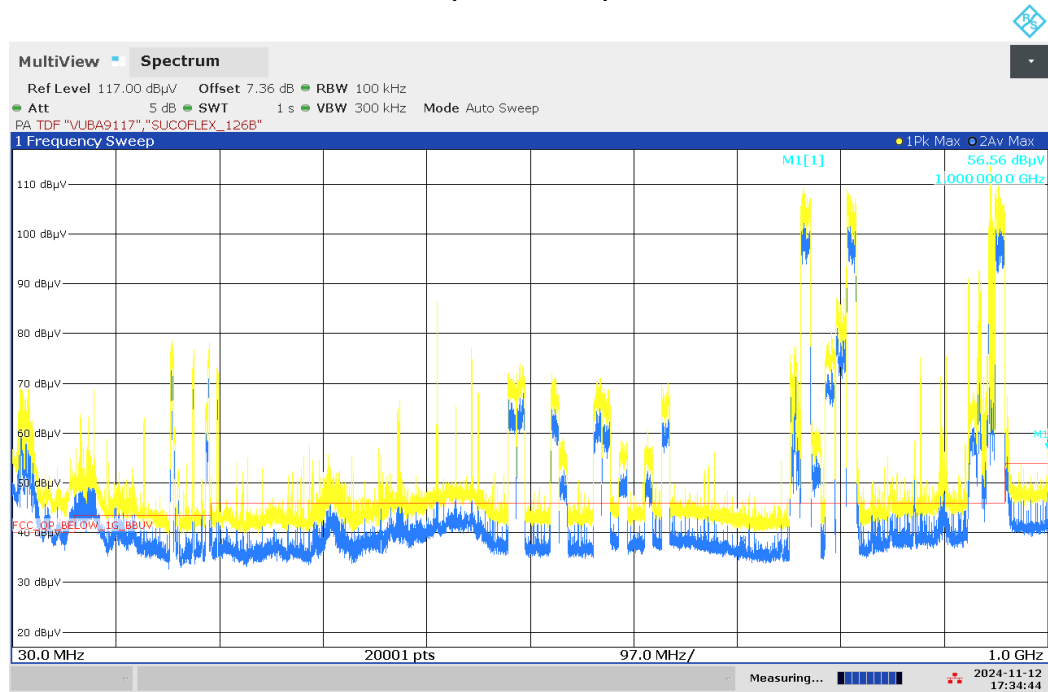
05:29:01 PM 11/12/2024

Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-1,
Frequency Range = 30 MHz – 1 GHz, Polarisation = horizontal
(S02_AO04)



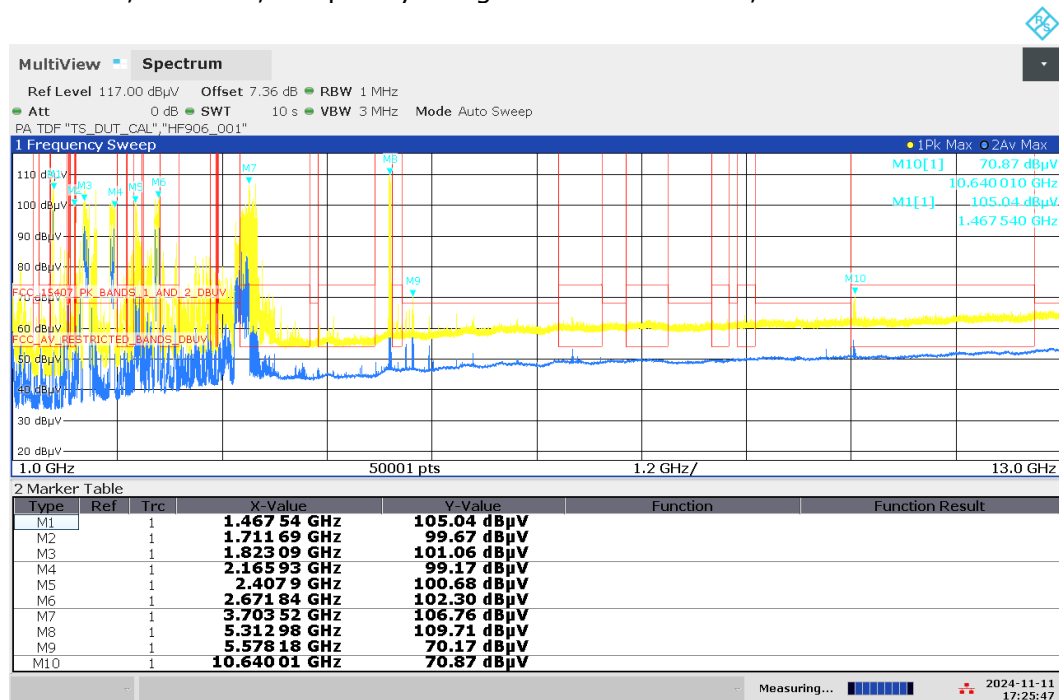
05:31:43 PM 11/12/2024

Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-3,
Frequency Range = 30 MHz – 1 GHz, Polarisation = horizontal
(S02_AO04)



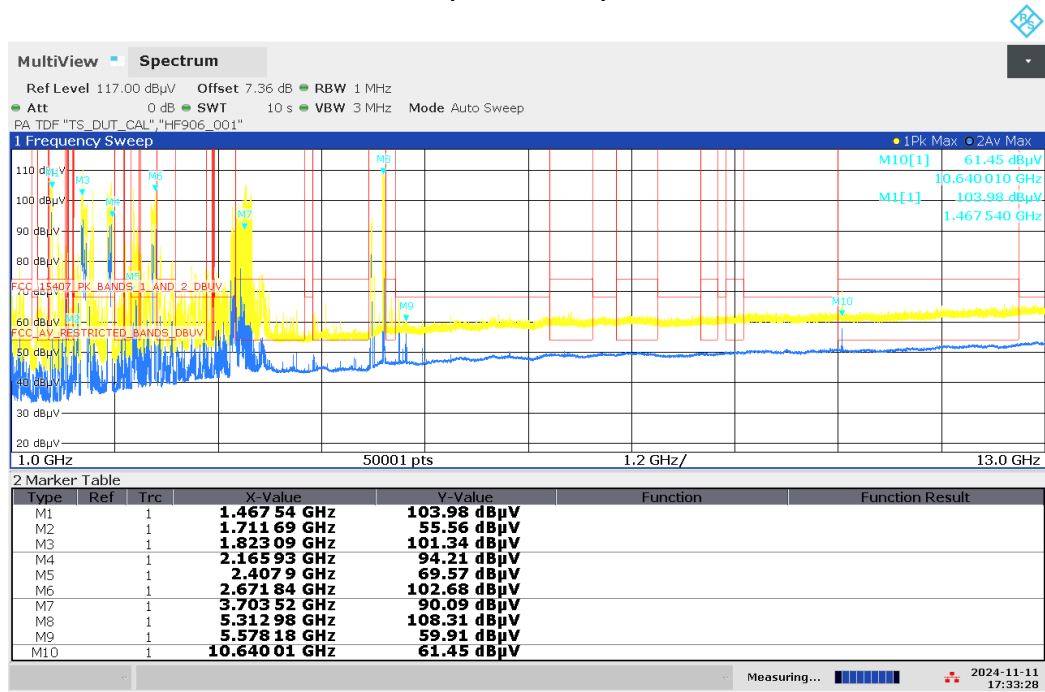
05:34:44 PM 11/12/2024

Noise Level, Ambient, Frequency Range = 1 GHz -13 GHz, Polarisation = horizontal



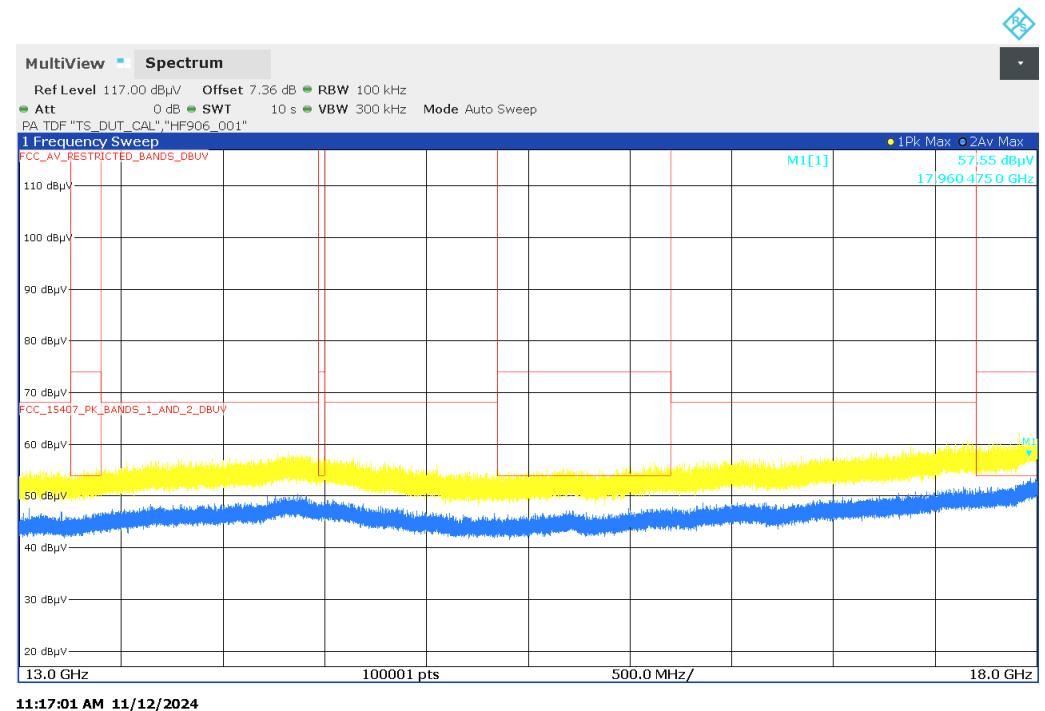
05:25:47 PM 11/11/2024

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



05:33:28 PM 11/11/2024

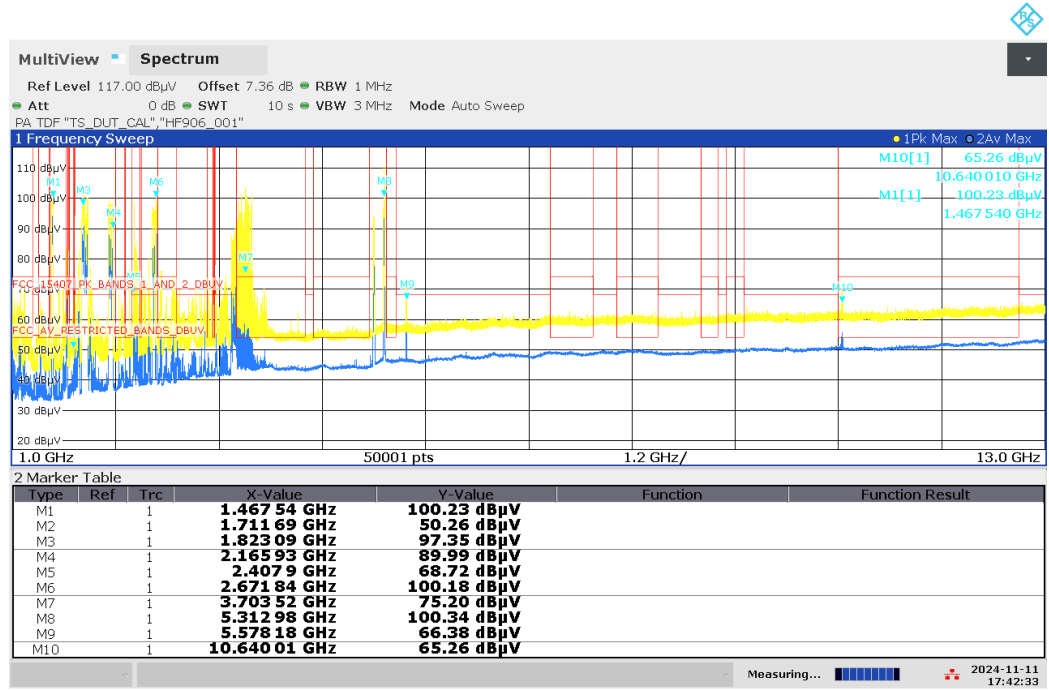
1 GHz – 13 GHz



11:17:01 AM 11/12/2024

13 GHz – 18 GHz

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



05:42:34 PM 11/11/2024

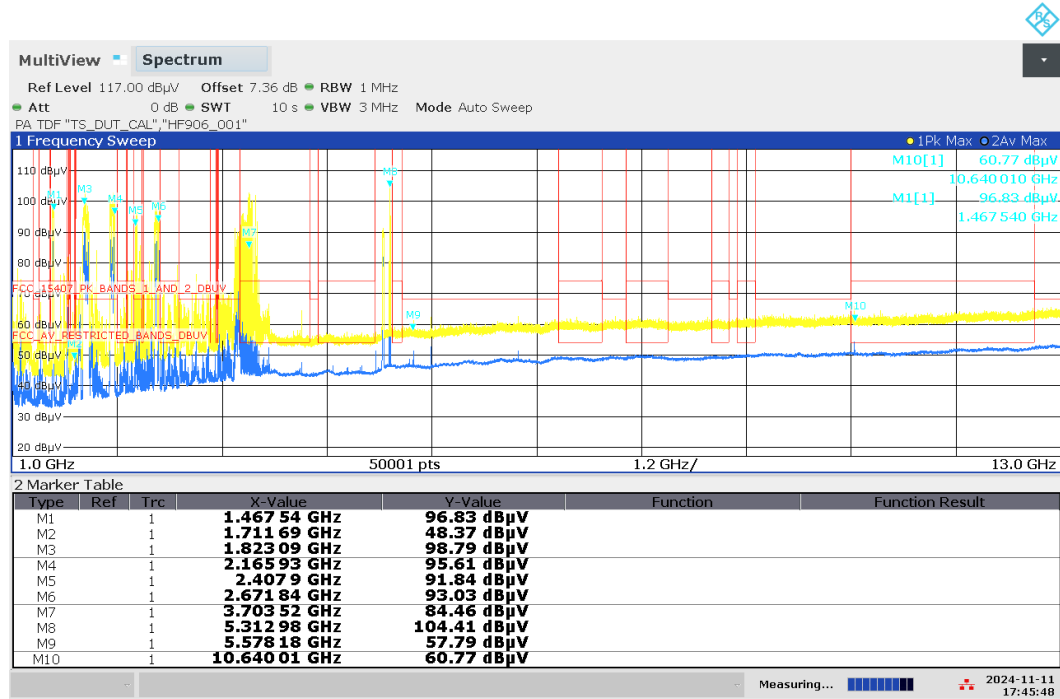
1 GHz – 13 GHz



11:19:27 AM 11/12/2024

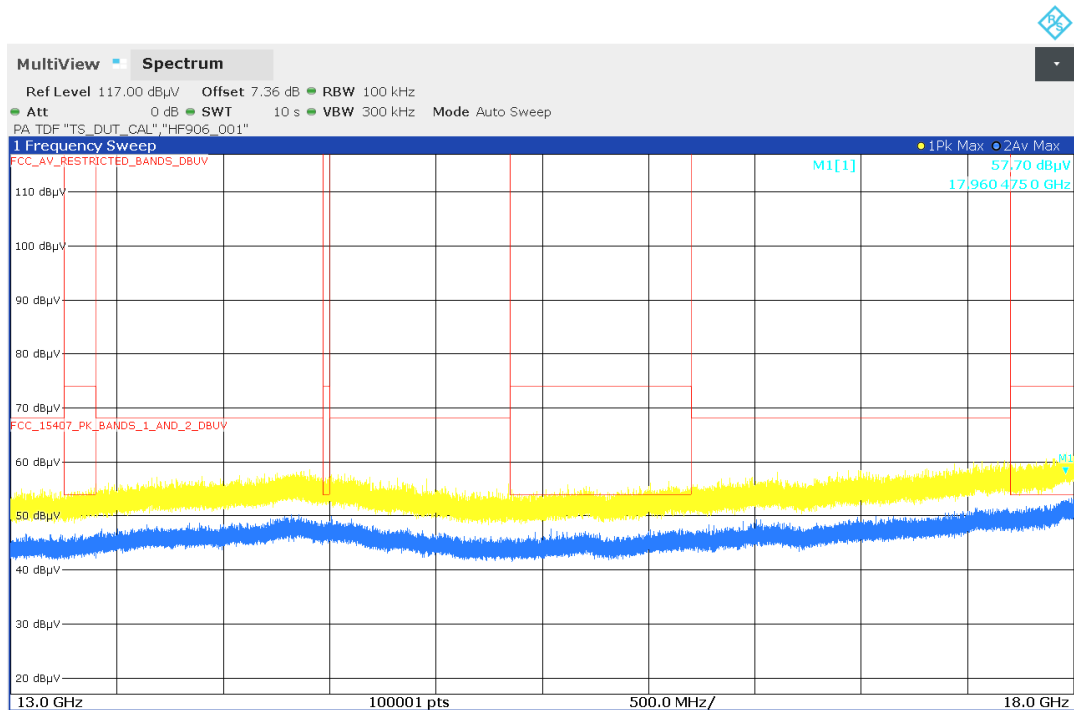
13 GHz – 18 GHz

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



05:45:49 PM 11/11/2024

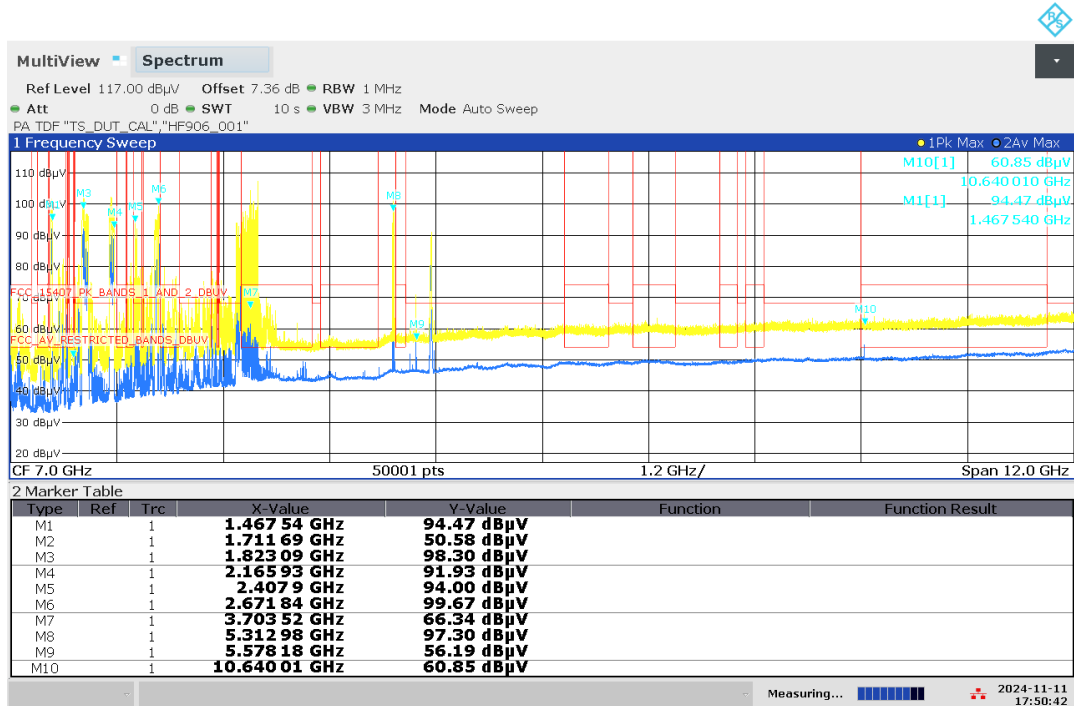
1 GHz – 13 GHz



11:22:02 AM 11/12/2024

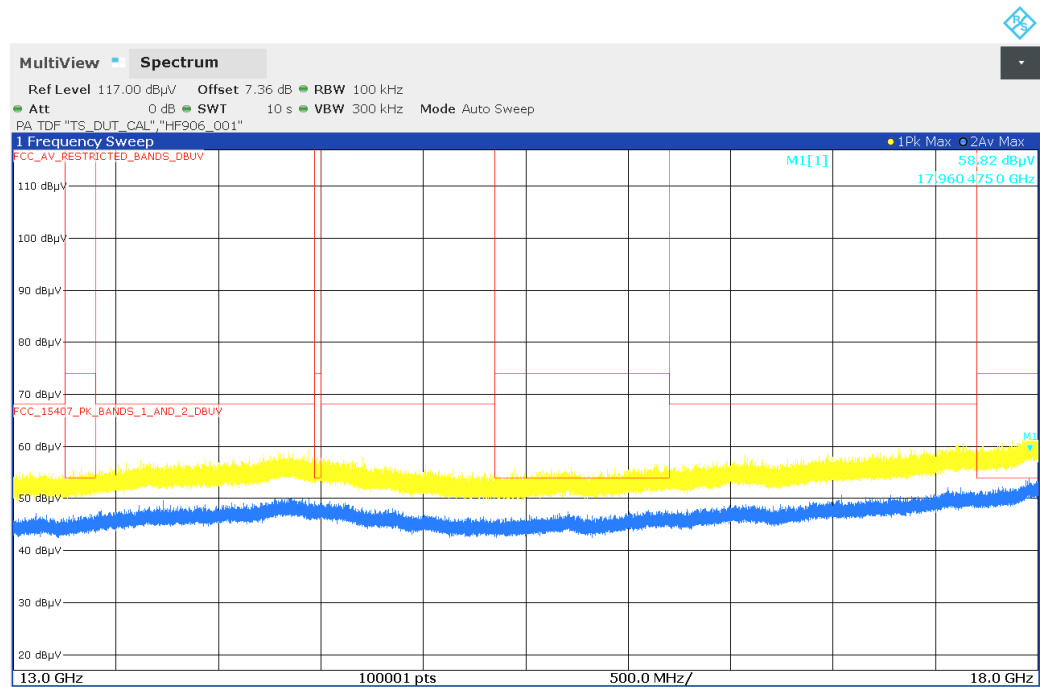
13 GHz – 18 GHz

Radio Technology = WLAN a, Operating Frequency = low, Subband = U-NII-3,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



05:50:43 PM 11/11/2024

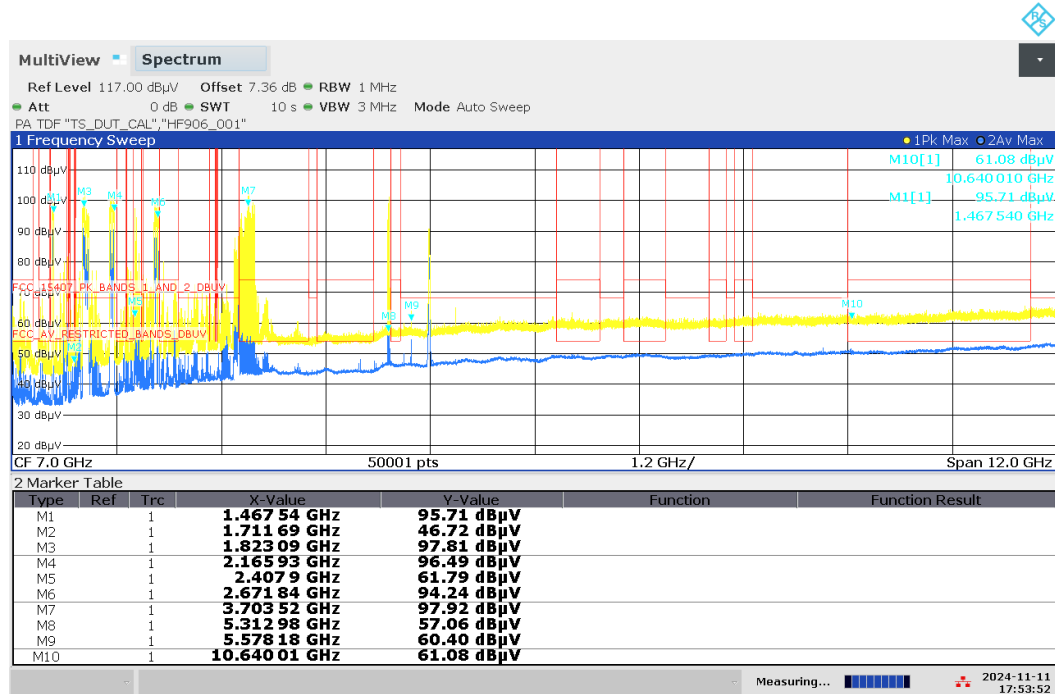
1 GHz – 13 GHz



11:25:45 AM 11/12/2024

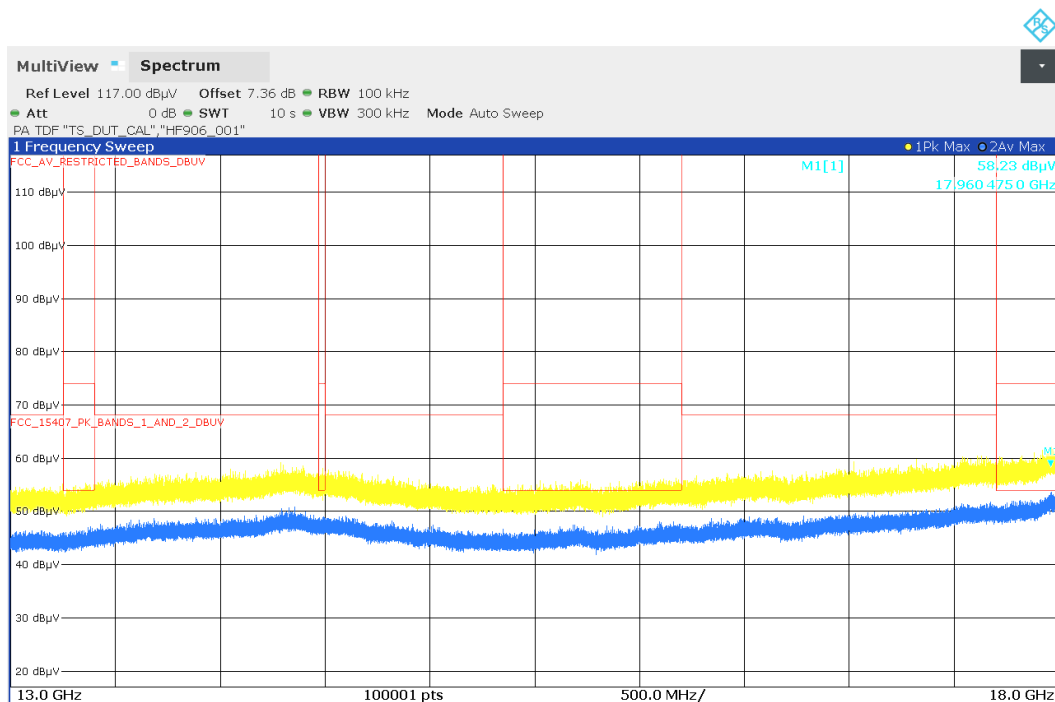
13 GHz – 18 GHz

Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-3,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



05:53:52 PM 11/11/2024

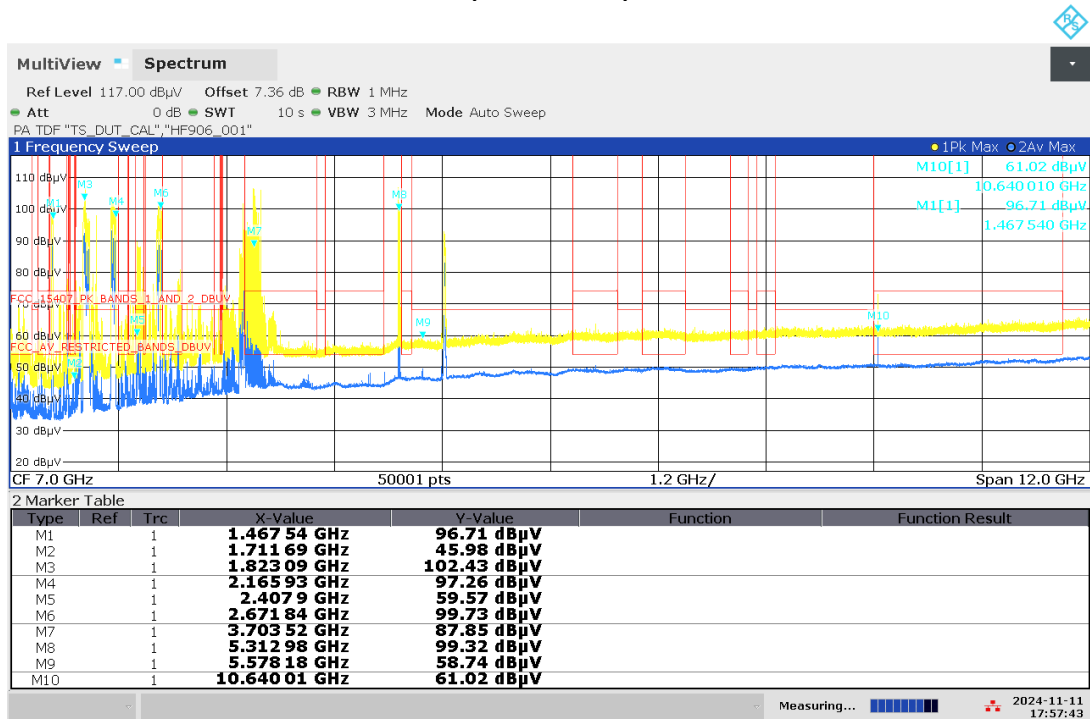
1 GHz – 13 GHz



11:28:24 AM 11/12/2024

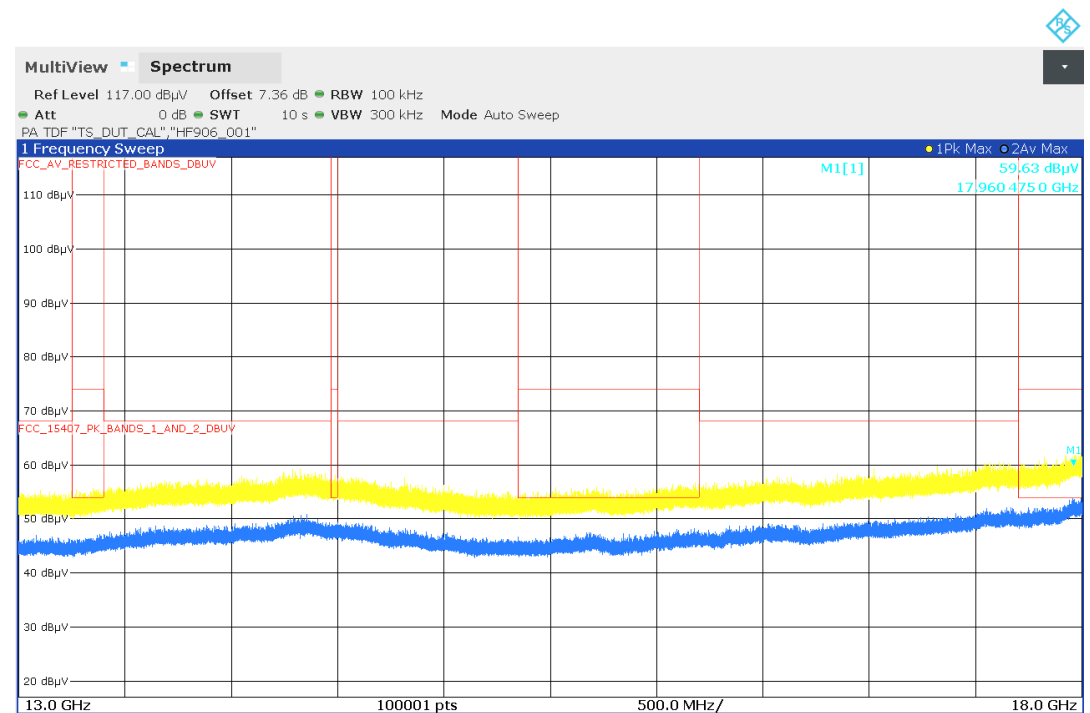
13 GHz – 18 GHz

Radio Technology = WLAN a, Operating Frequency = high, Subband = U-NII-3,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



05:57:44 PM 11/11/2024

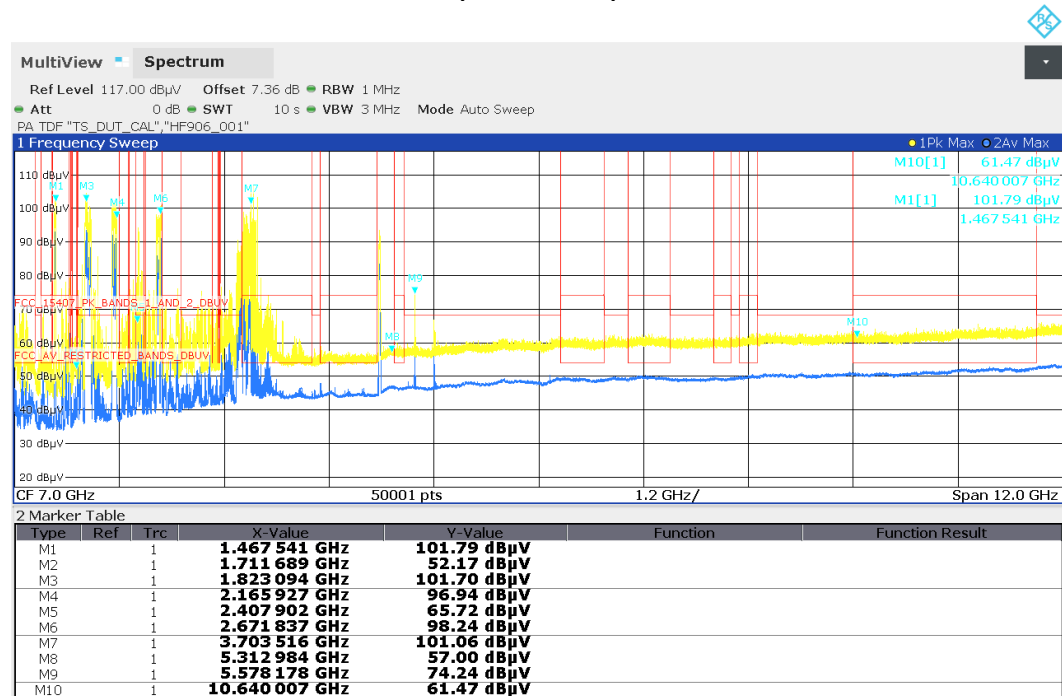
1 GHz – 13 GHz



11:31:09 AM 11/12/2024

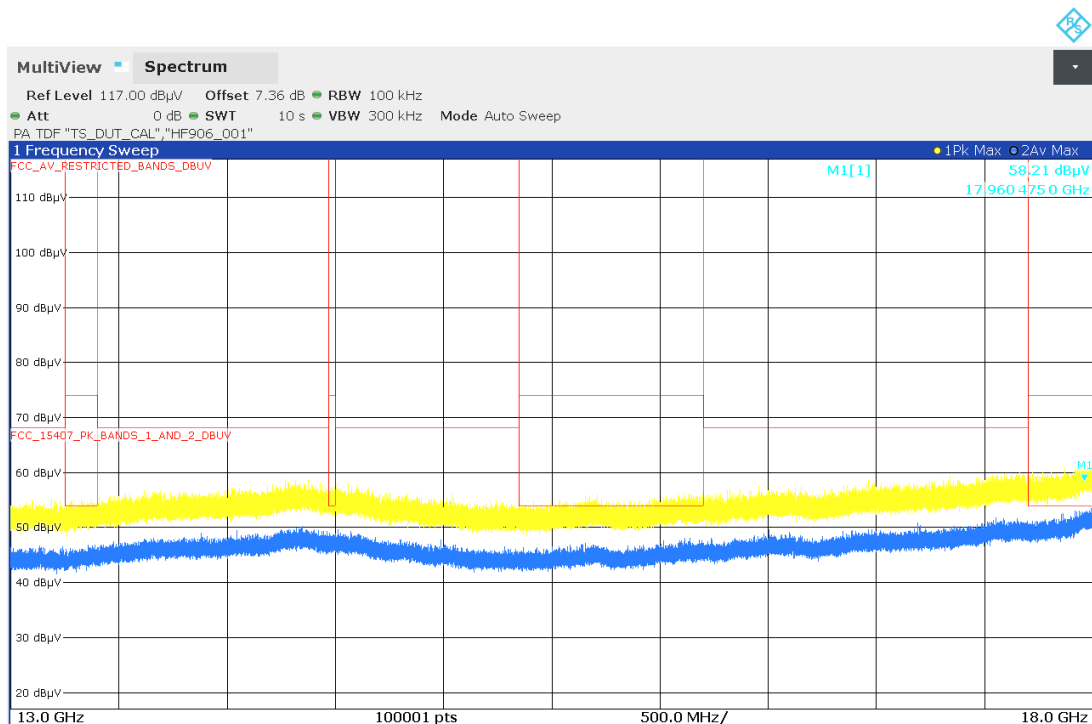
13 GHz – 18 GHz

Radio Technology = WLAN n 20, Operating Frequency = low, Subband = U-NII-1,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



09:54:52 AM 11/12/2024

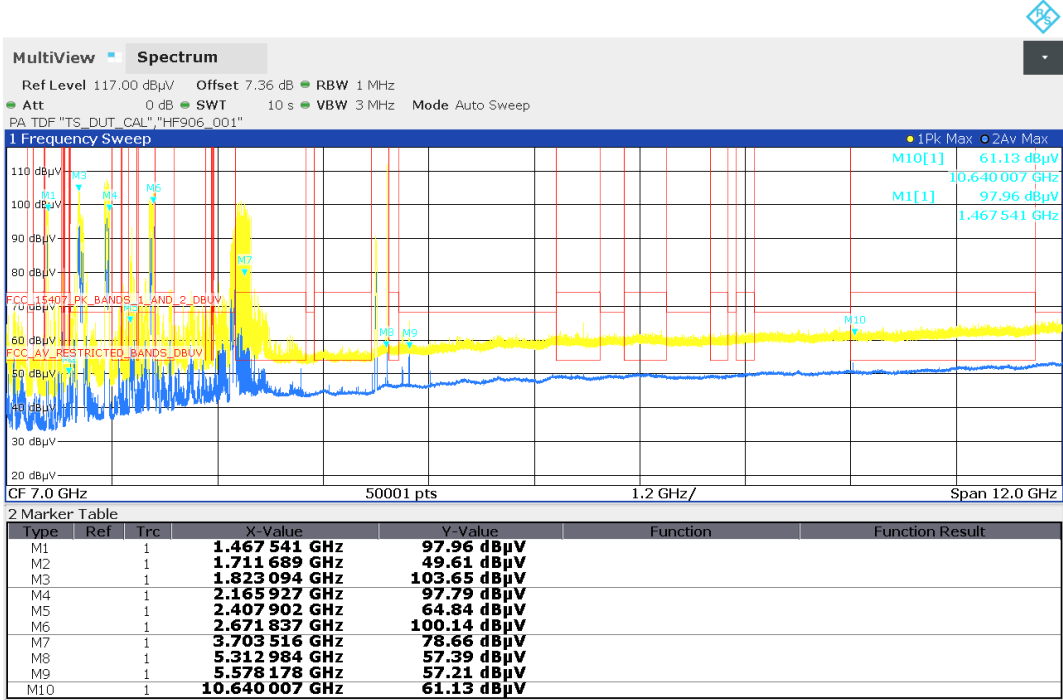
1 GHz – 13 GHz



11:33:53 AM 11/12/2024

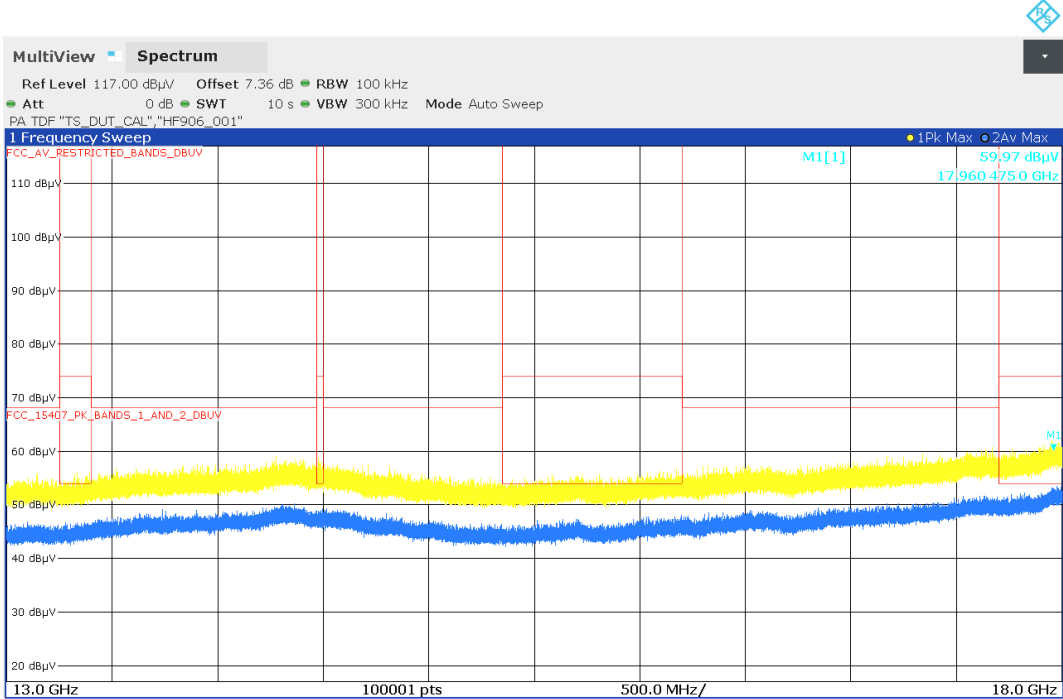
13 GHz – 18 GHz

Radio Technology = WLAN n 20, Operating Frequency = mid, Subband = U-NII-1,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



09:59:16 AM 11/12/2024

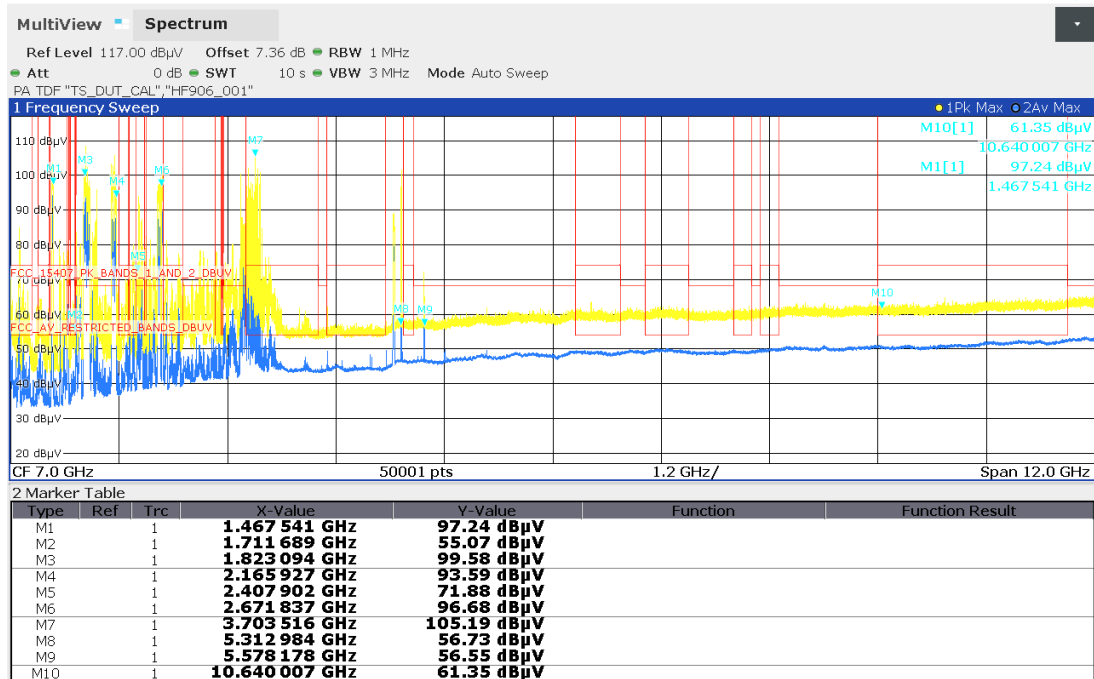
1 GHz – 13 GHz



11:36:38 AM 11/12/2024

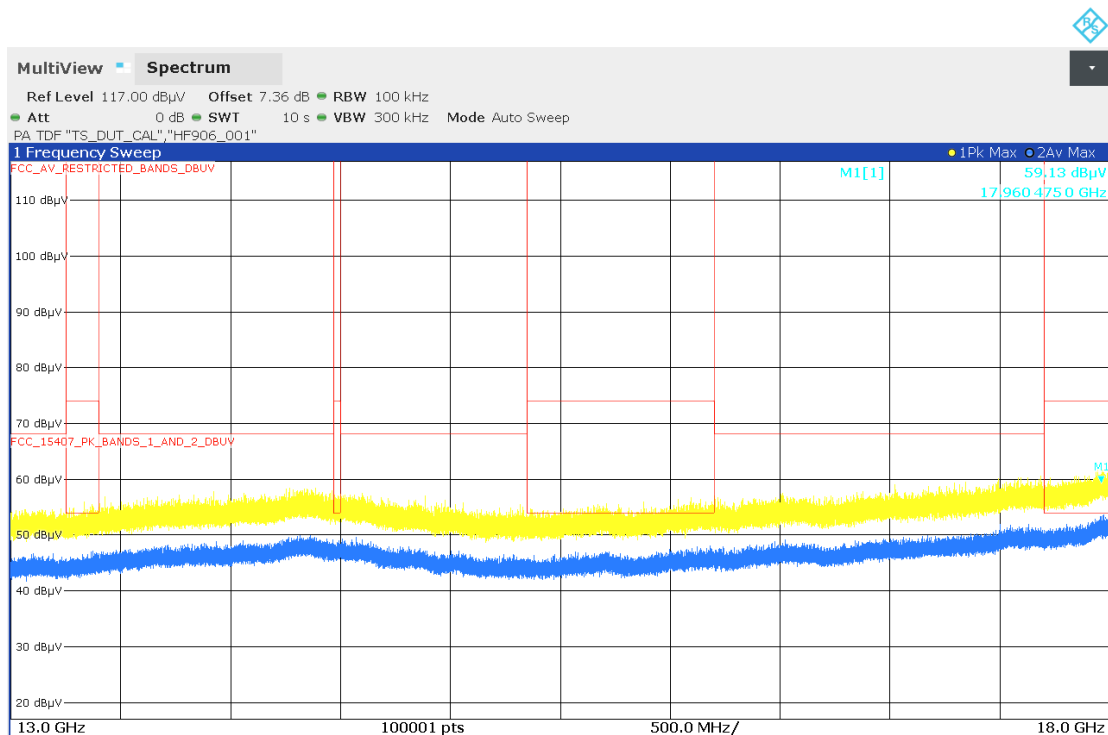
13 GHz – 18 GHz

Radio Technology = WLAN n 20, Operating Frequency = high, Subband = U-NII-1,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



10:02:37 AM 11/12/2024

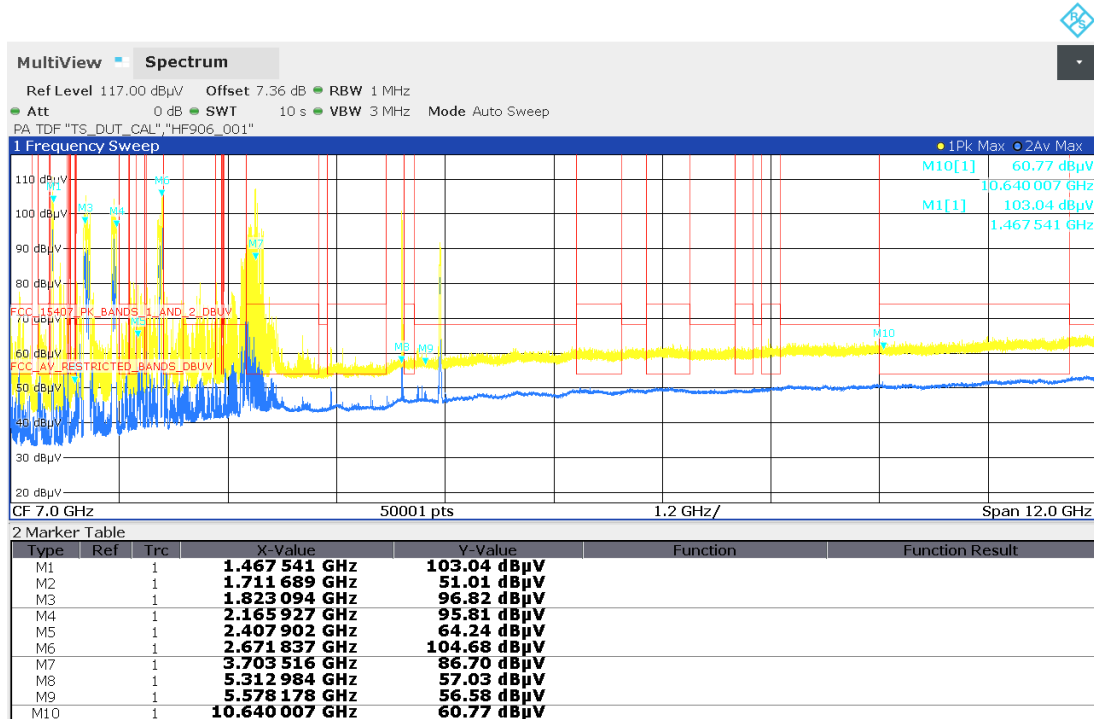
1 GHz – 13 GHz



11:38:31 AM 11/12/2024

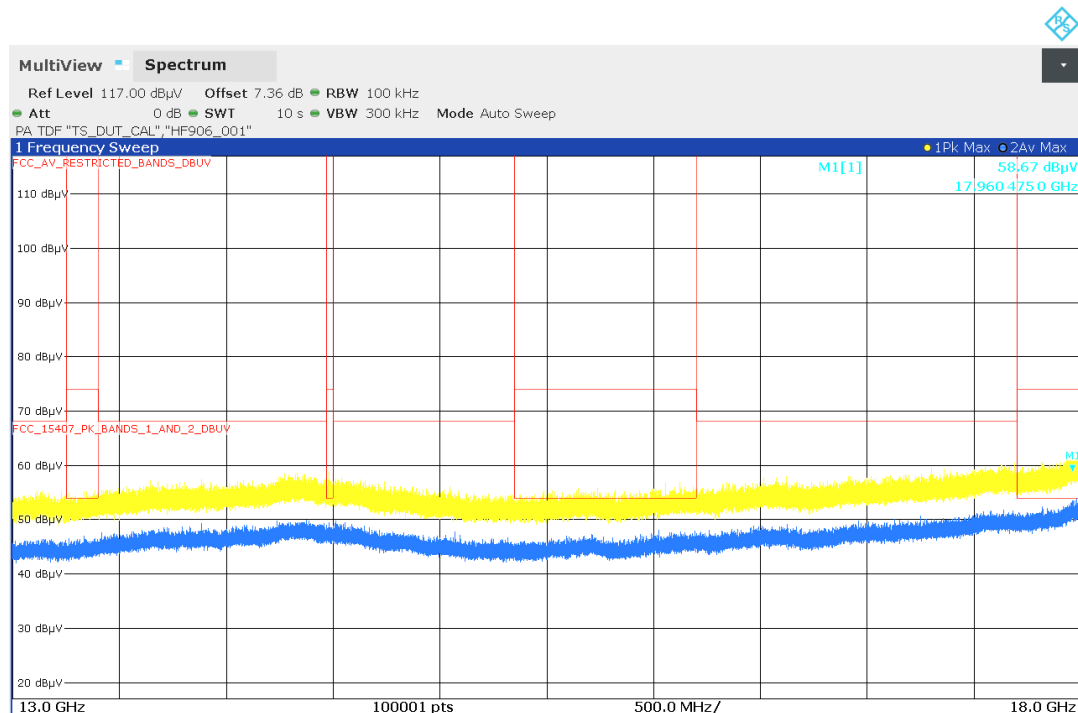
13 GHz – 18 GHz

Radio Technology = WLAN n 20, Operating Frequency = low, Subband = U-NII-3,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



10:07:19 AM 11/12/2024

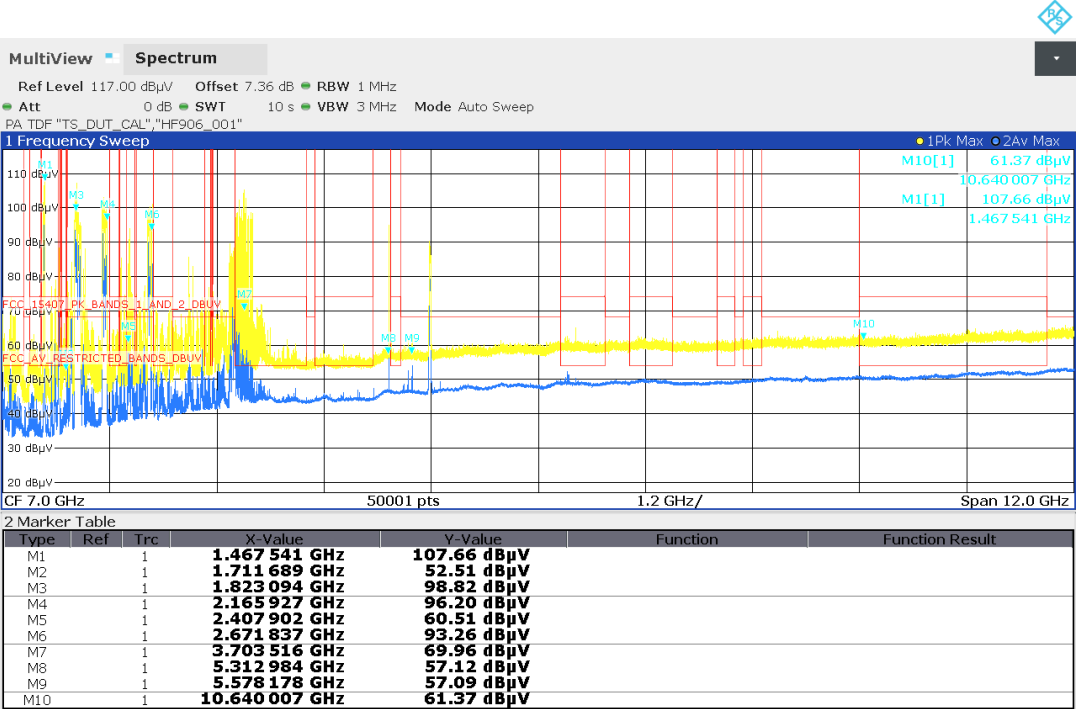
1 GHz – 13 GHz



11:40:52 AM 11/12/2024

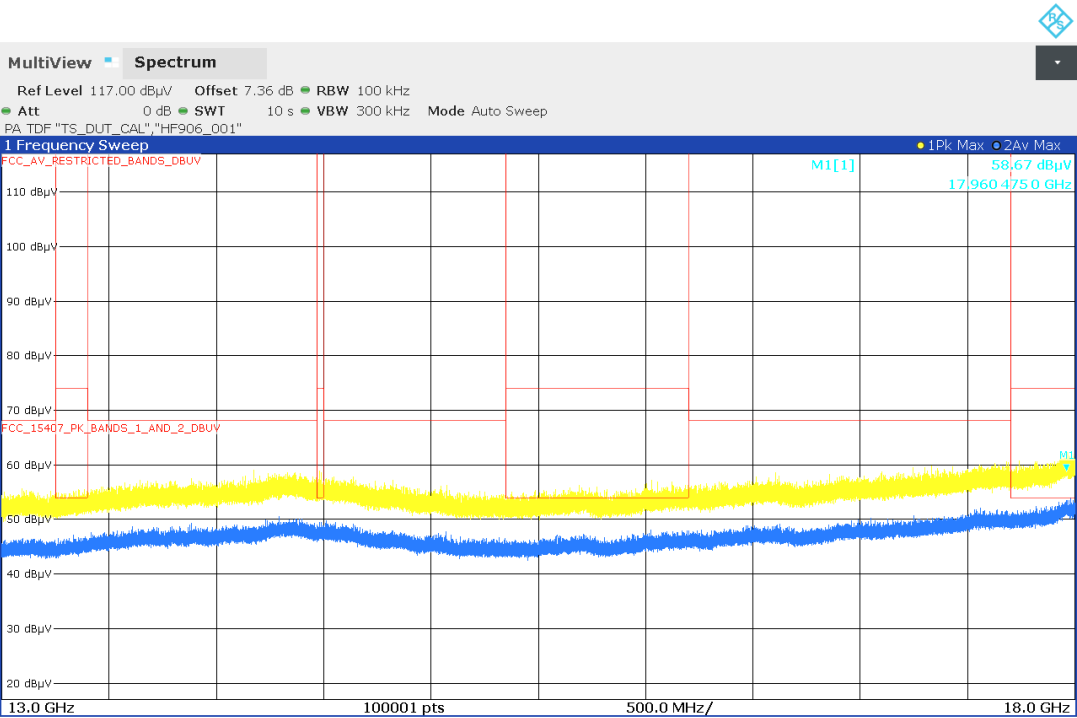
13 GHz – 18 GHz

Radio Technology = WLAN n 20, Operating Frequency = mid, Subband = U-NII-3,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



10:10:16 AM 11/12/2024

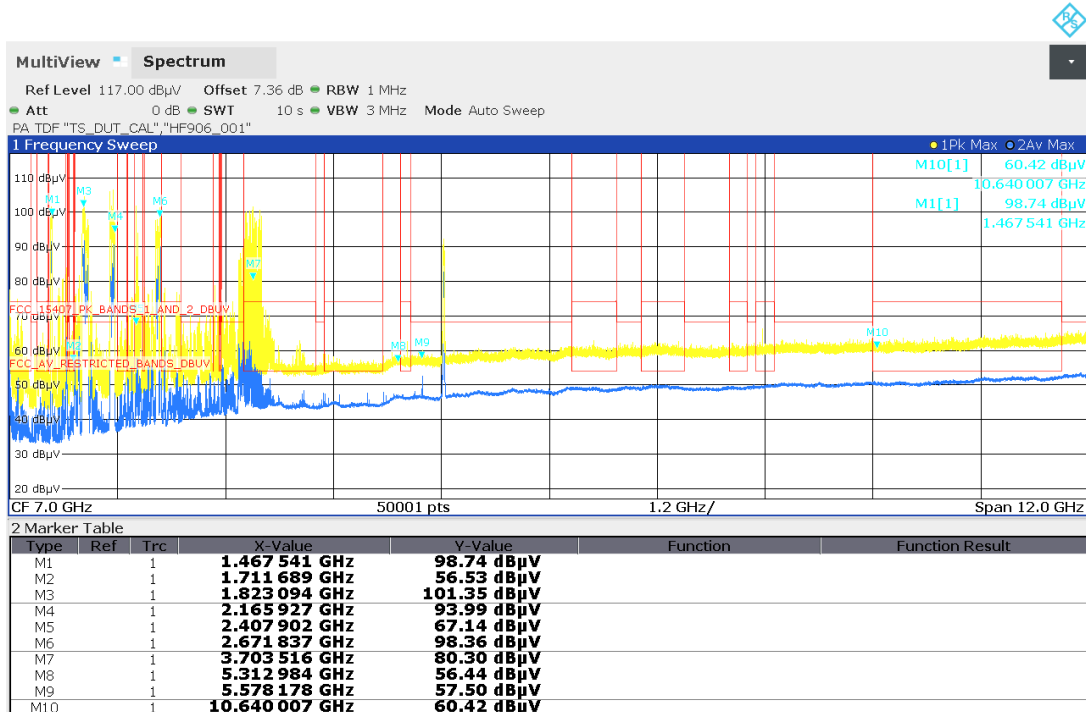
1 GHz – 13 GHz



11:43:14 AM 11/12/2024

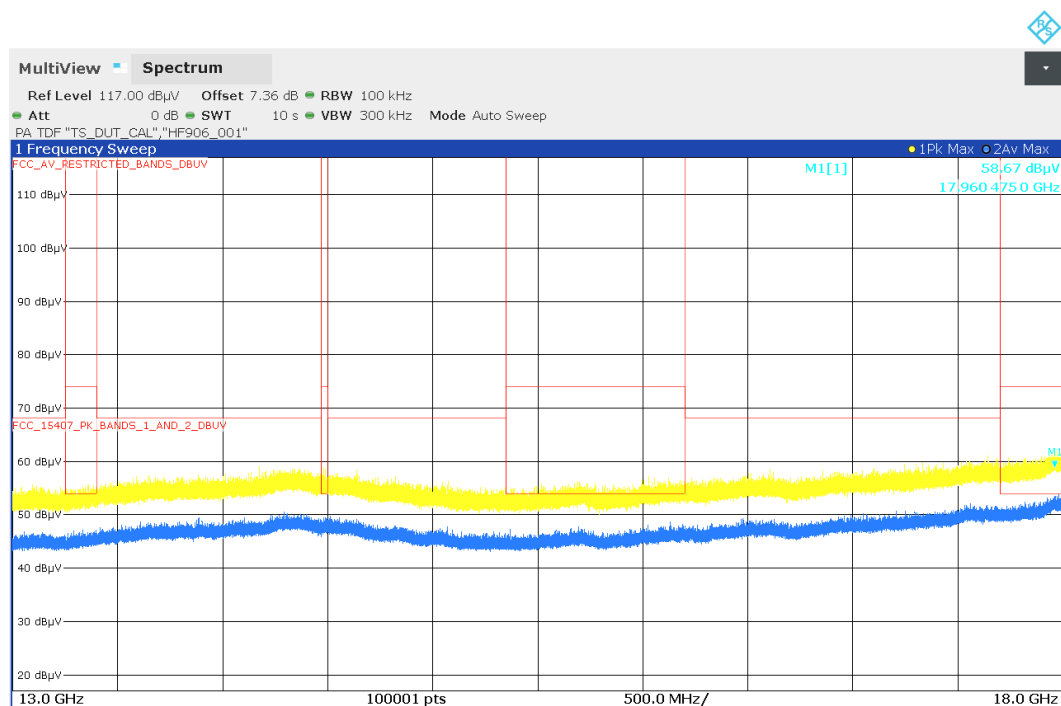
13 GHz – 18 GHz

Radio Technology = WLAN n 20, Operating Frequency = high, Subband = U-NII-3,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



10:15:12 AM 11/12/2024

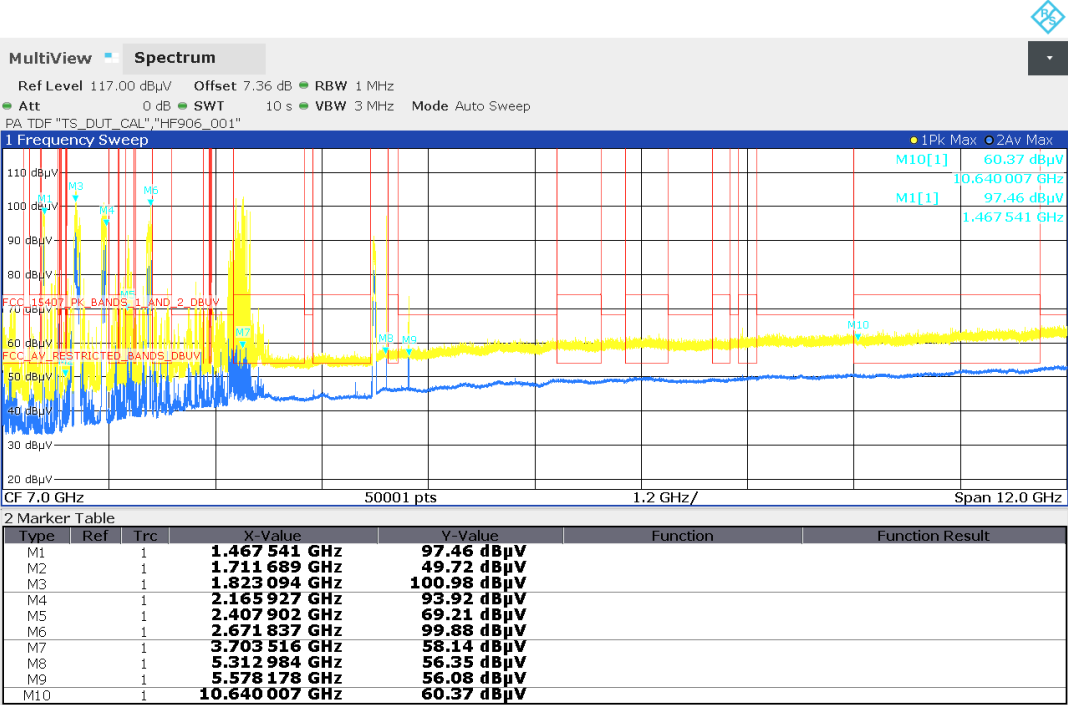
1 GHz – 13 GHz



11:45:43 AM 11/12/2024

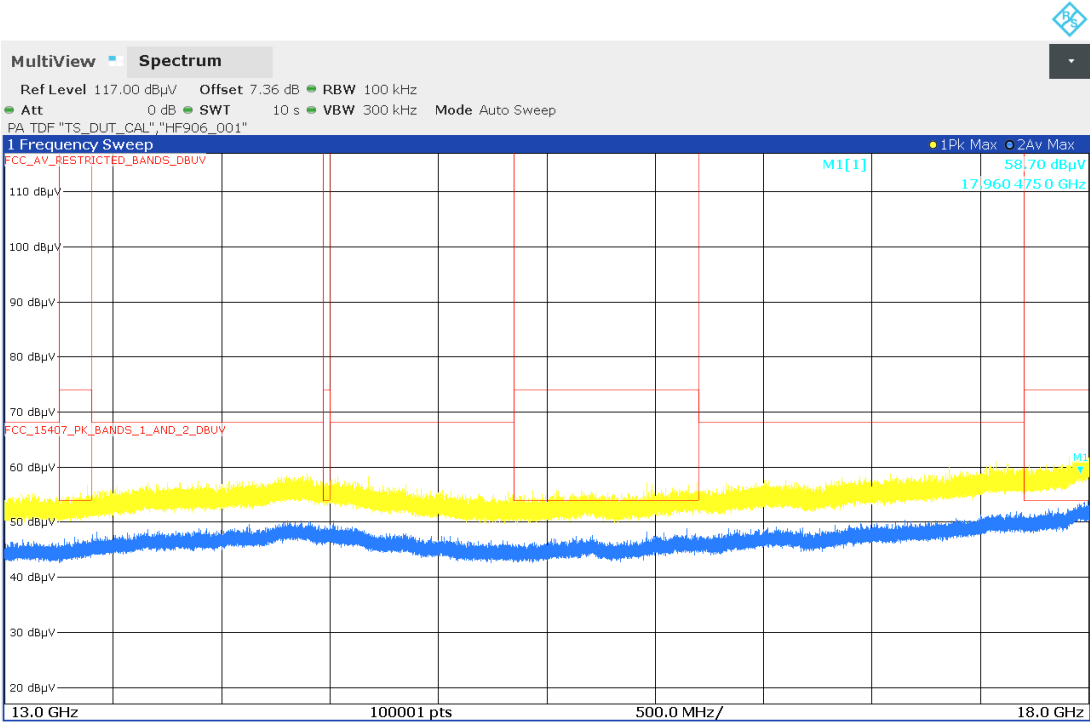
13 GHz – 18 GHz

Radio Technology = WLAN n 40, Operating Frequency = low, Subband = U-NII-1,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



10:53:20 AM 11/12/2024

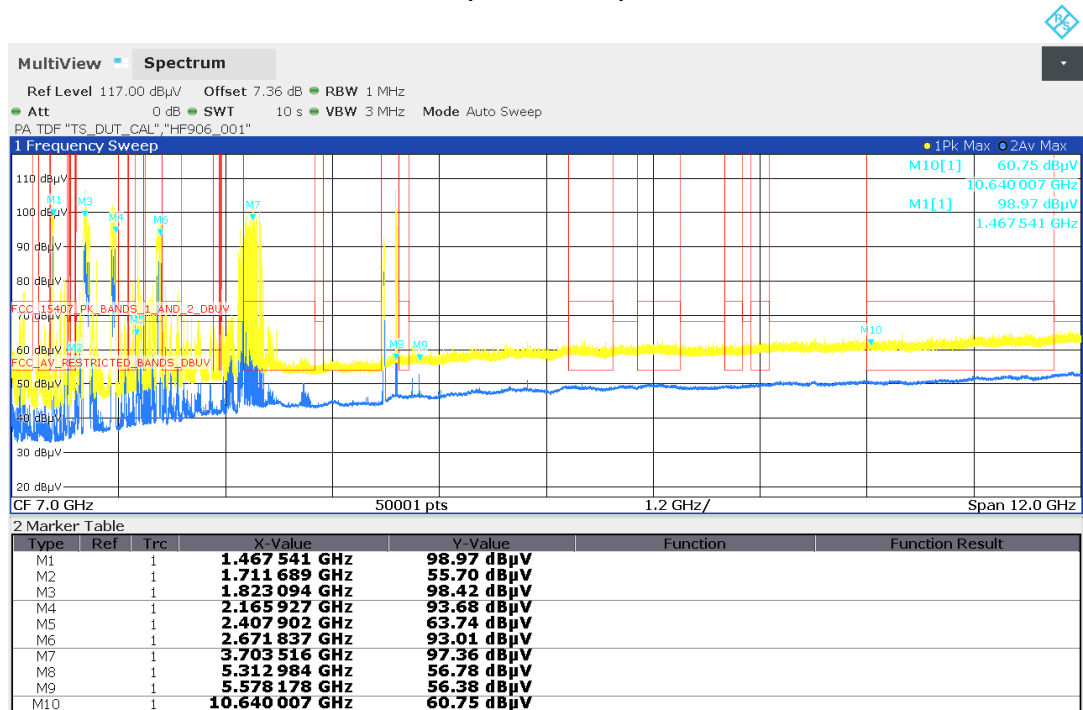
1 GHz – 13 GHz



12:21:31 PM 11/12/2024

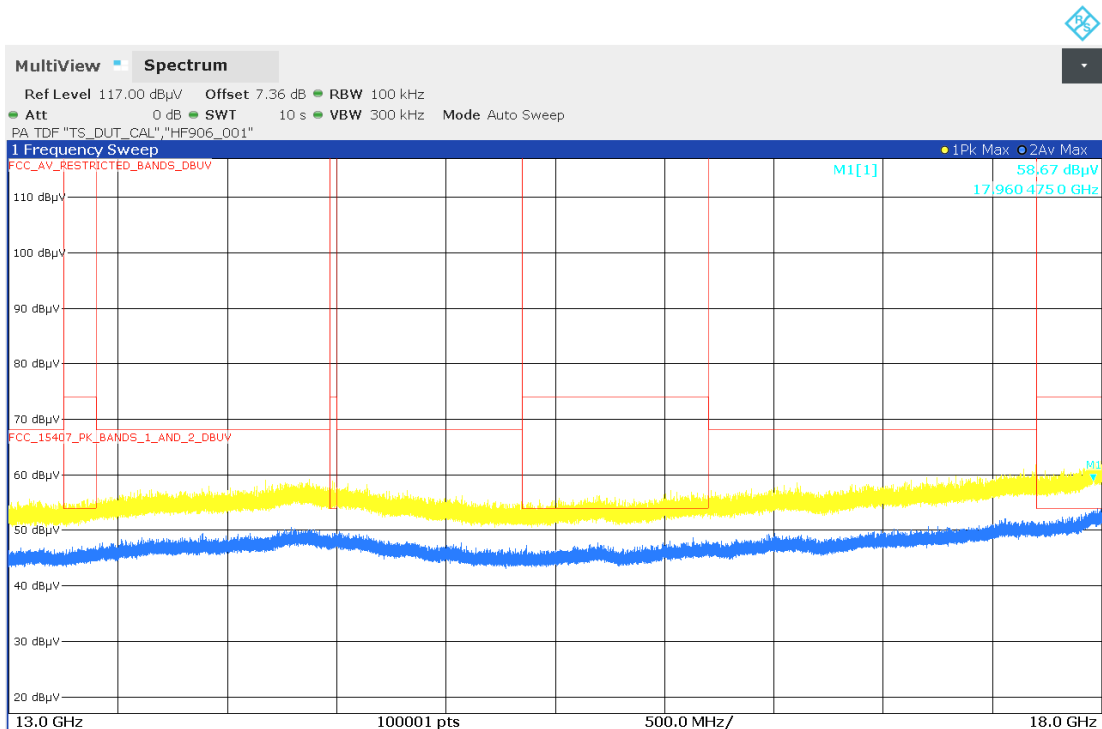
13 GHz – 18 GHz

Radio Technology = WLAN ac 20, Operating Frequency = low, Subband = U-NII-1,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



10:17:51 AM 11/12/2024

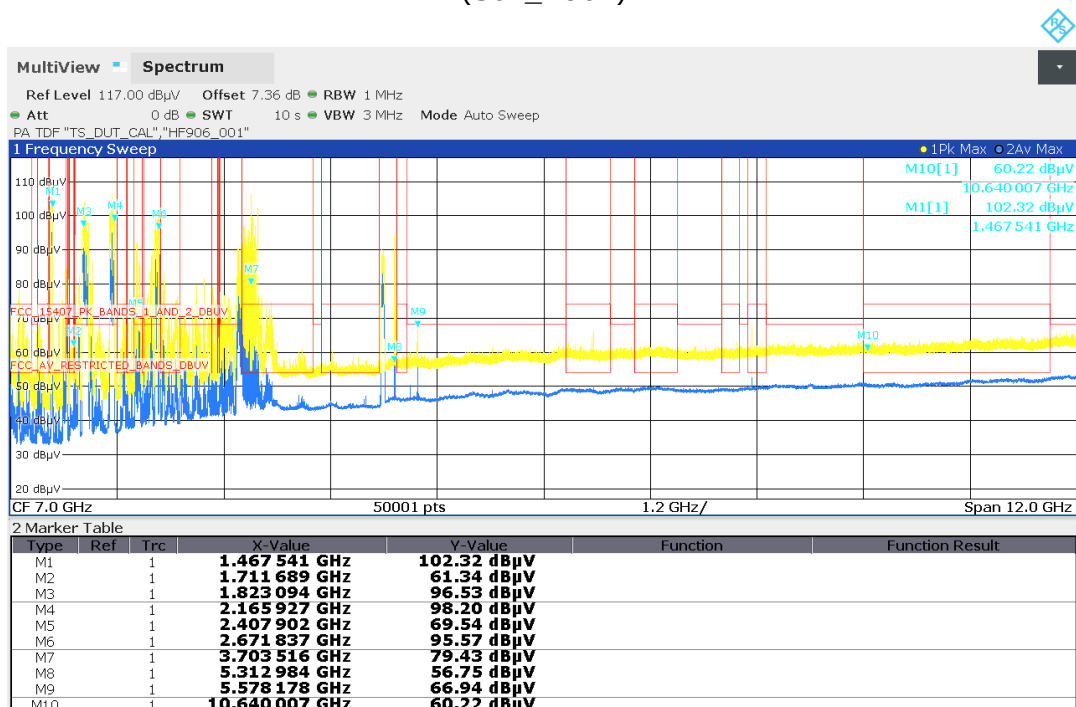
1 GHz – 13 GHz



11:48:24 AM 11/12/2024

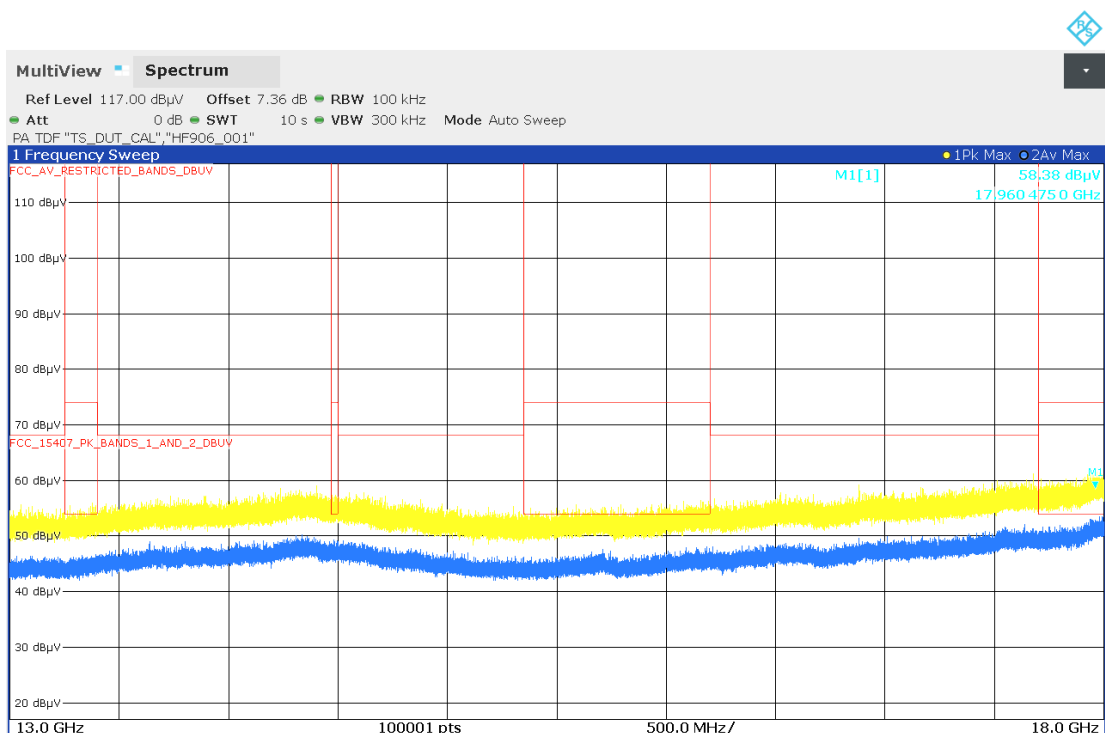
13 GHz – 18 GHz

Radio Technology = WLAN ac 40, Operating Frequency = low, Subband = U-NII-1,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



10:55:22 AM 11/12/2024

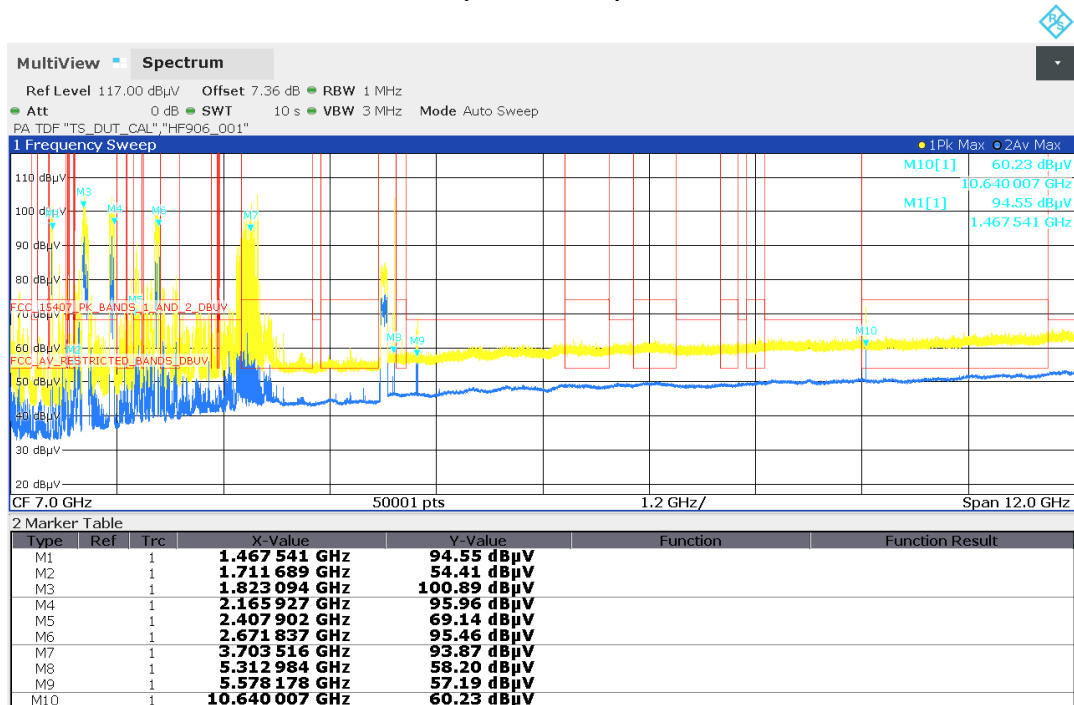
1 GHz – 13 GHz



12:23:29 PM 11/12/2024

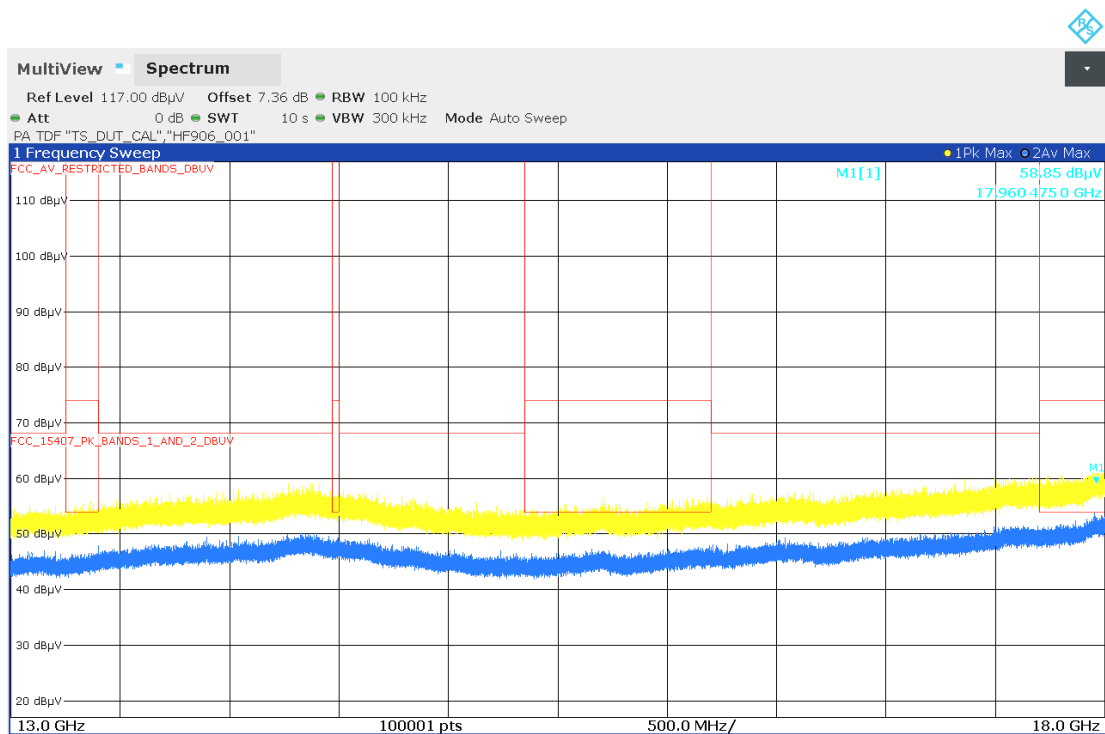
13 GHz – 18 GHz

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



11:00:25 AM 11/12/2024

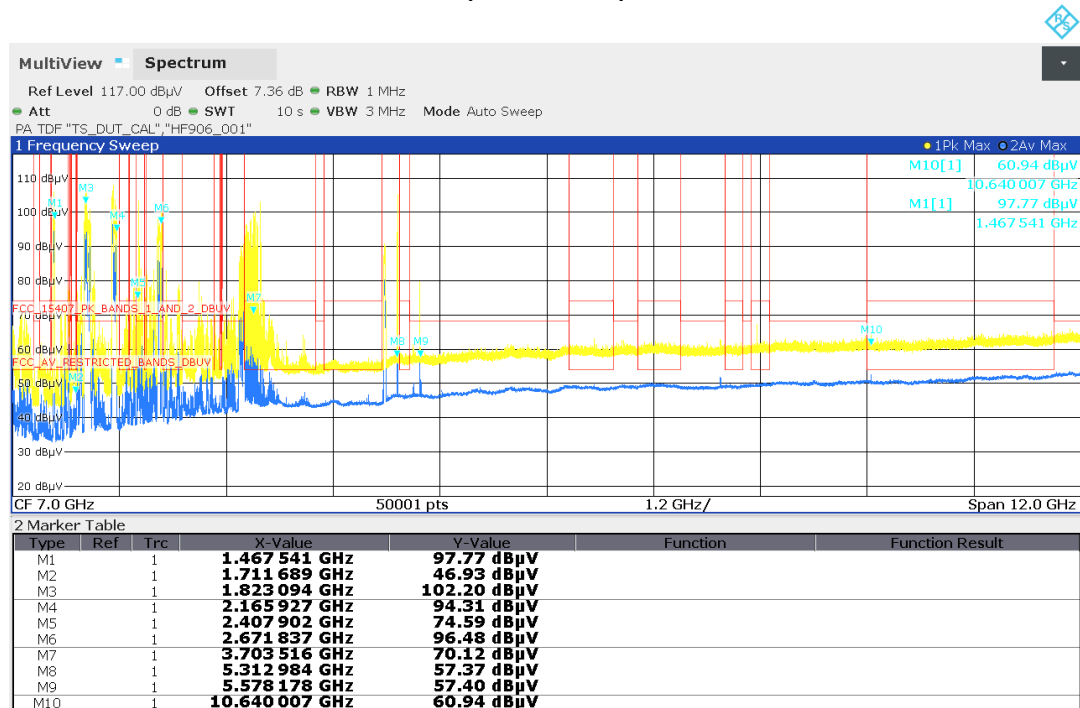
1 GHz – 13 GHz



11:13:57 AM 11/12/2024

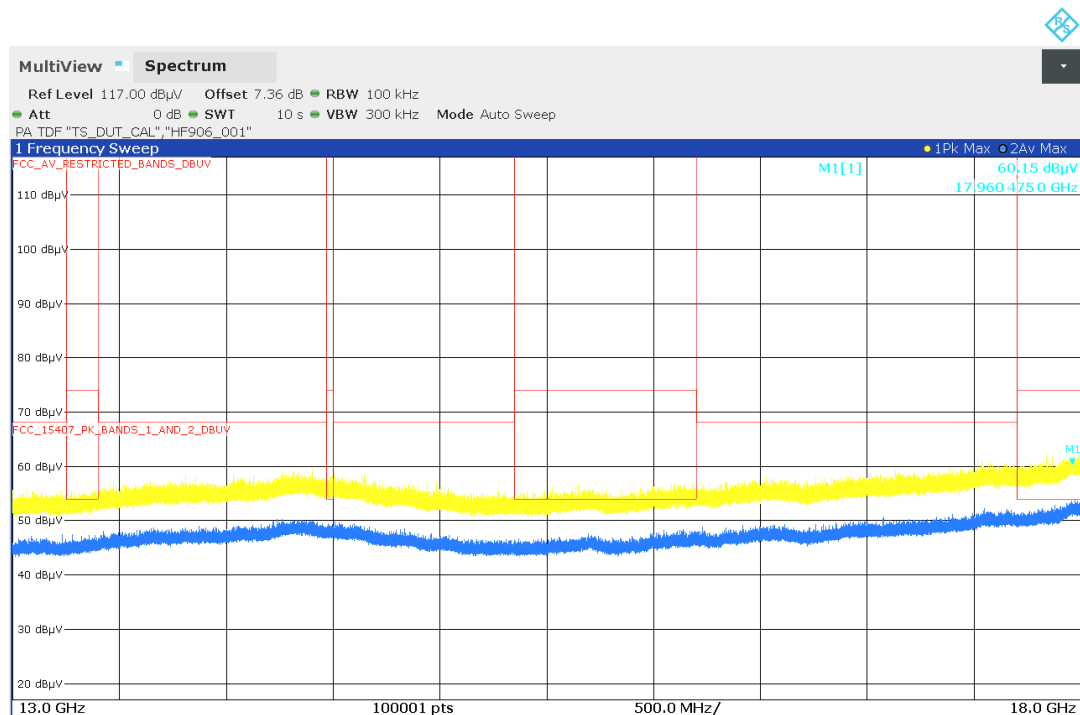
13 GHz – 18 GHz

Radio Technology = WLAN ax 20, Operating Frequency = low, Subband = U-NII-1,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



10:35:06 AM 11/12/2024

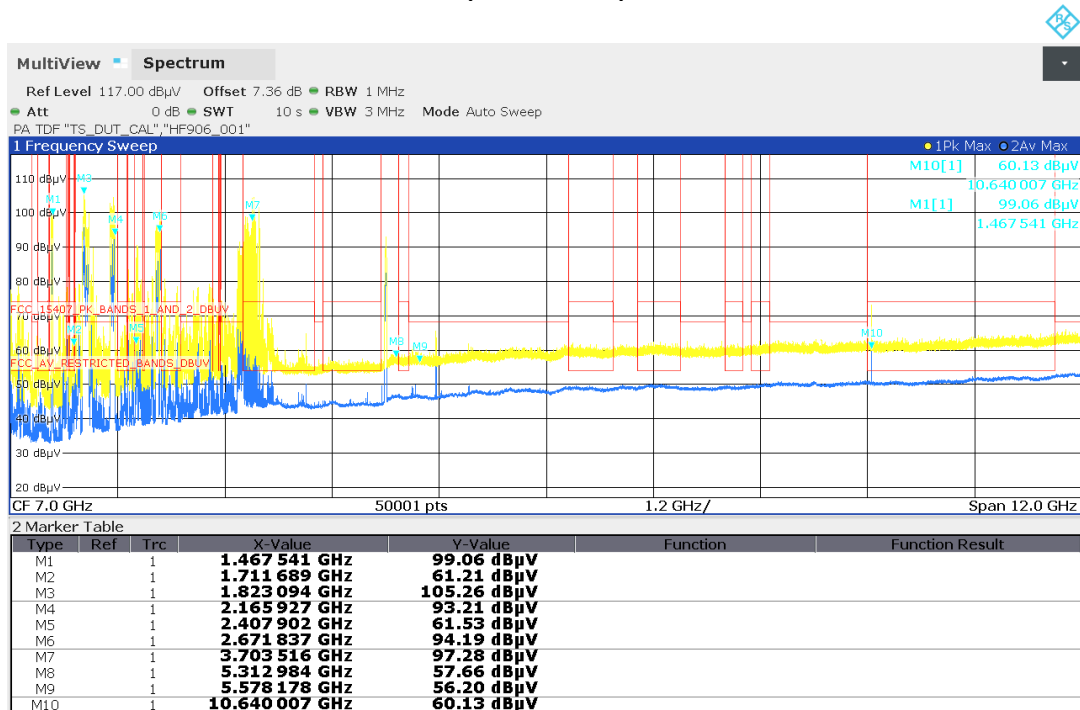
1 GHz – 13 GHz



12:05:50 PM 11/12/2024

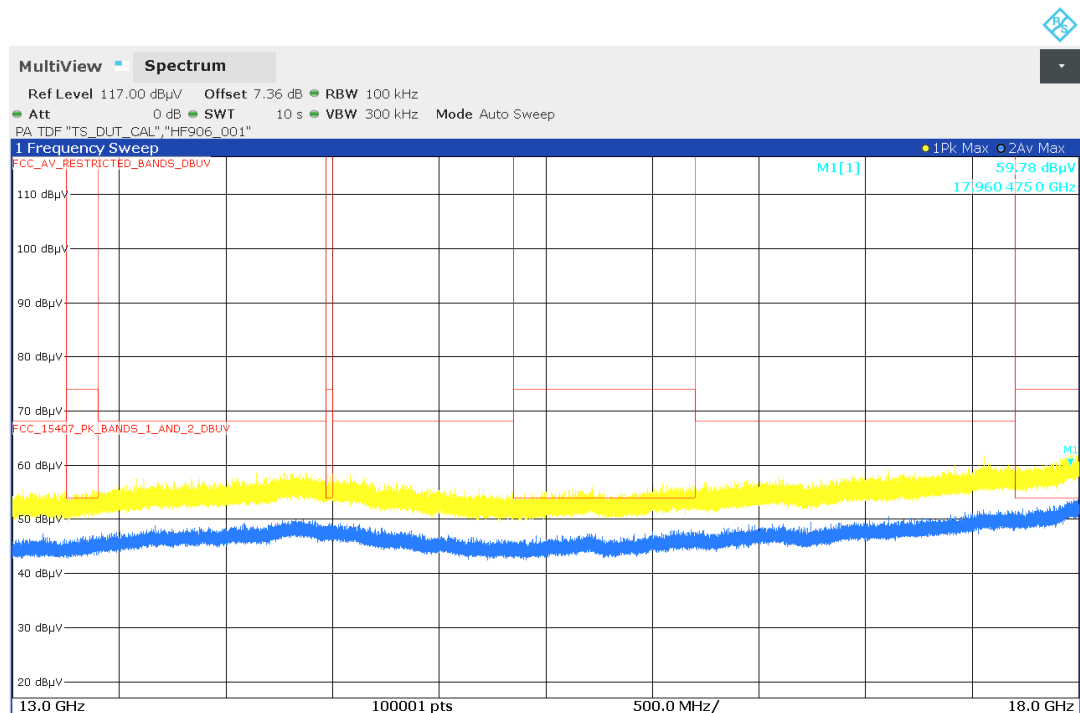
13 GHz – 18 GHz

Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-1,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



10:38:03 AM 11/12/2024

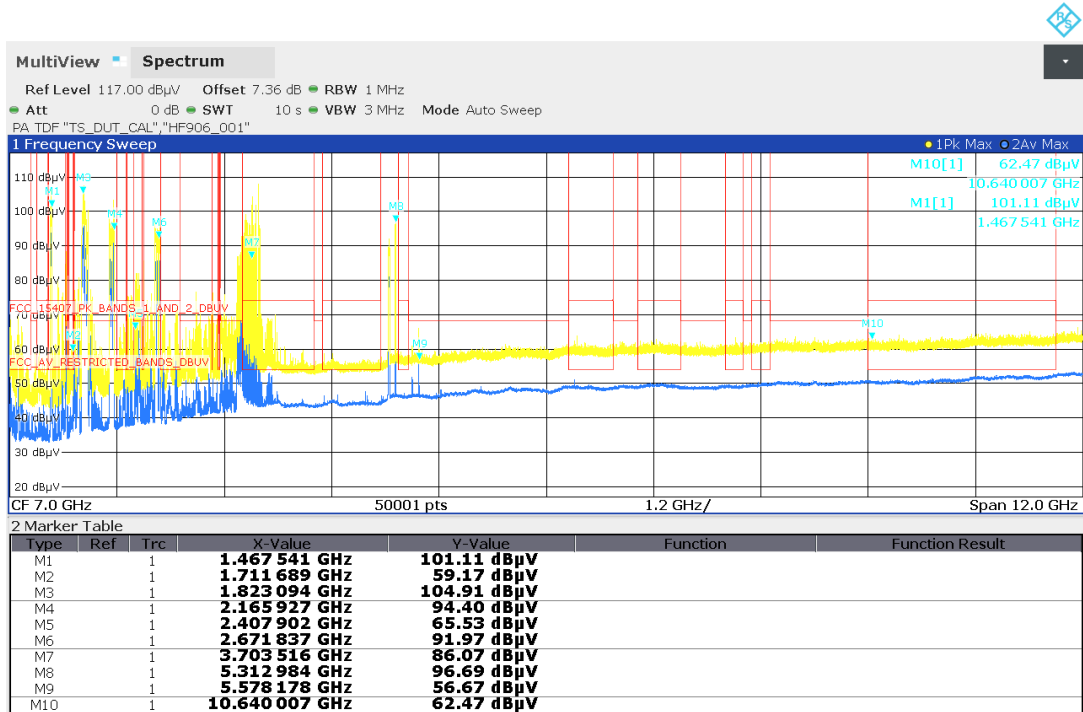
1 GHz – 13 GHz



12:10:08 PM 11/12/2024

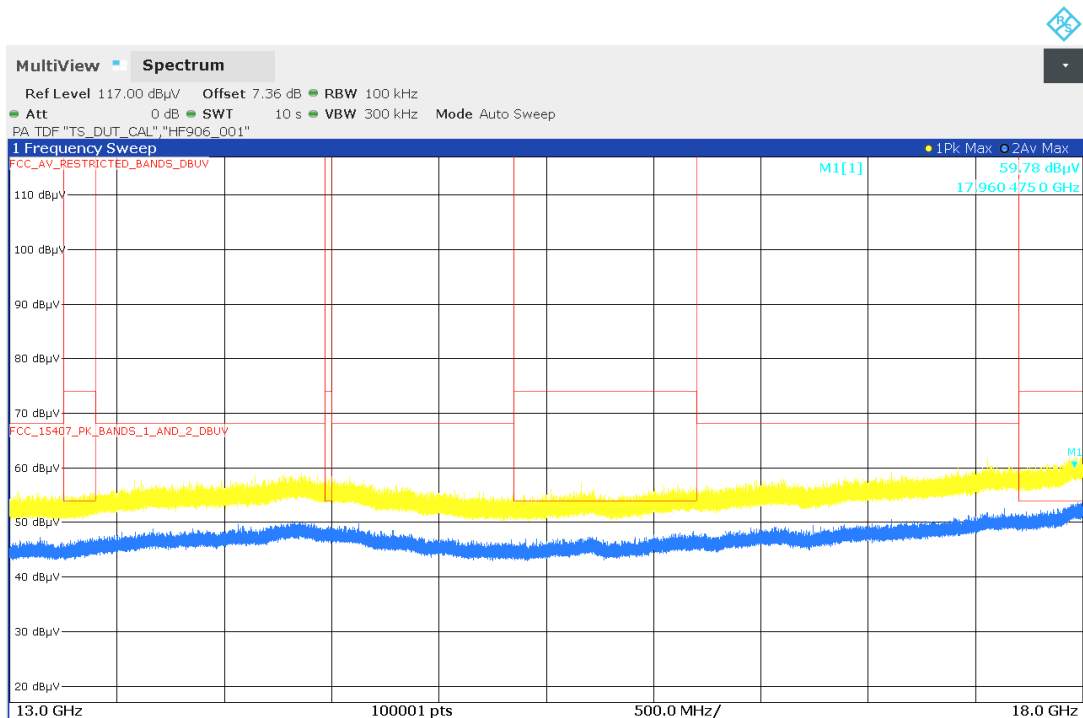
13 GHz – 18 GHz

Radio Technology = WLAN ax 20, Operating Frequency = high, Subband = U-NII-1,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



10:41:04 AM 11/12/2024

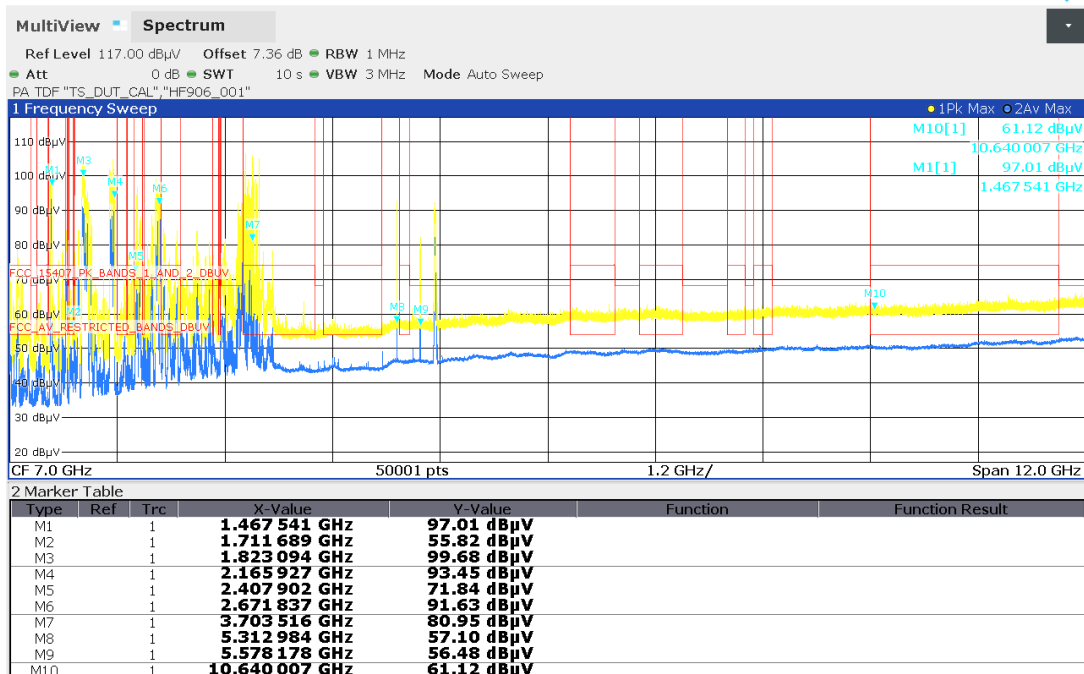
1 GHz – 13 GHz



12:12:38 PM 11/12/2024

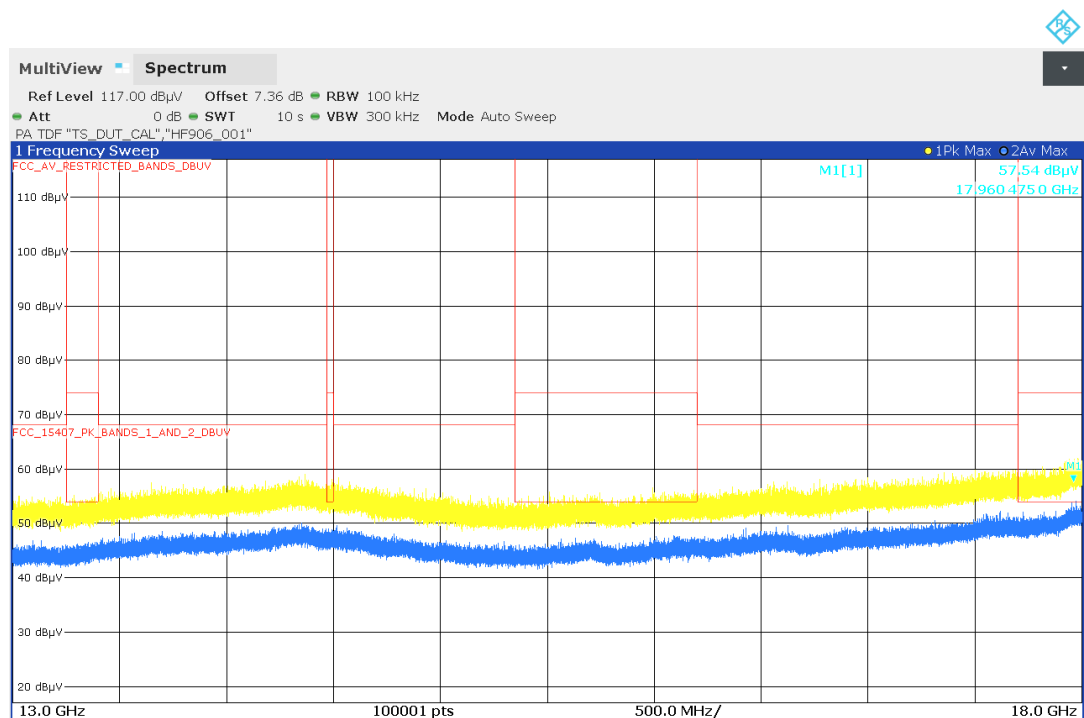
13 GHz – 18 GHz

Radio Technology = WLAN ax 20, Operating Frequency = low, Subband = U-NII-3,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



10:43:48 AM 11/12/2024

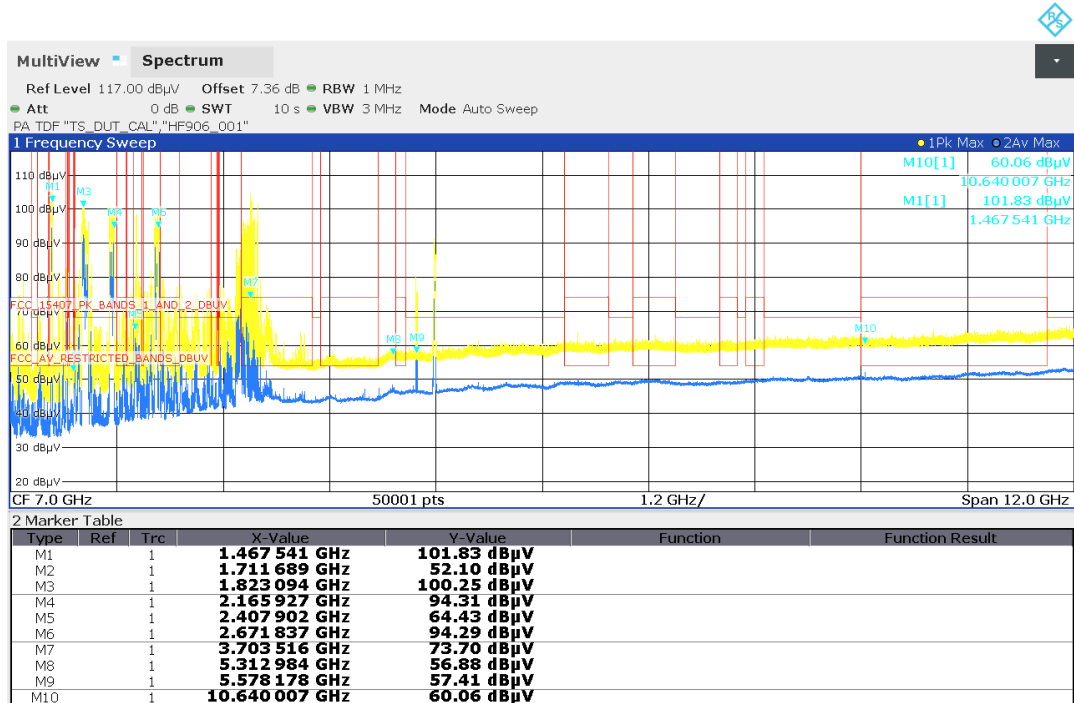
1 GHz – 13 GHz



12:14:48 PM 11/12/2024

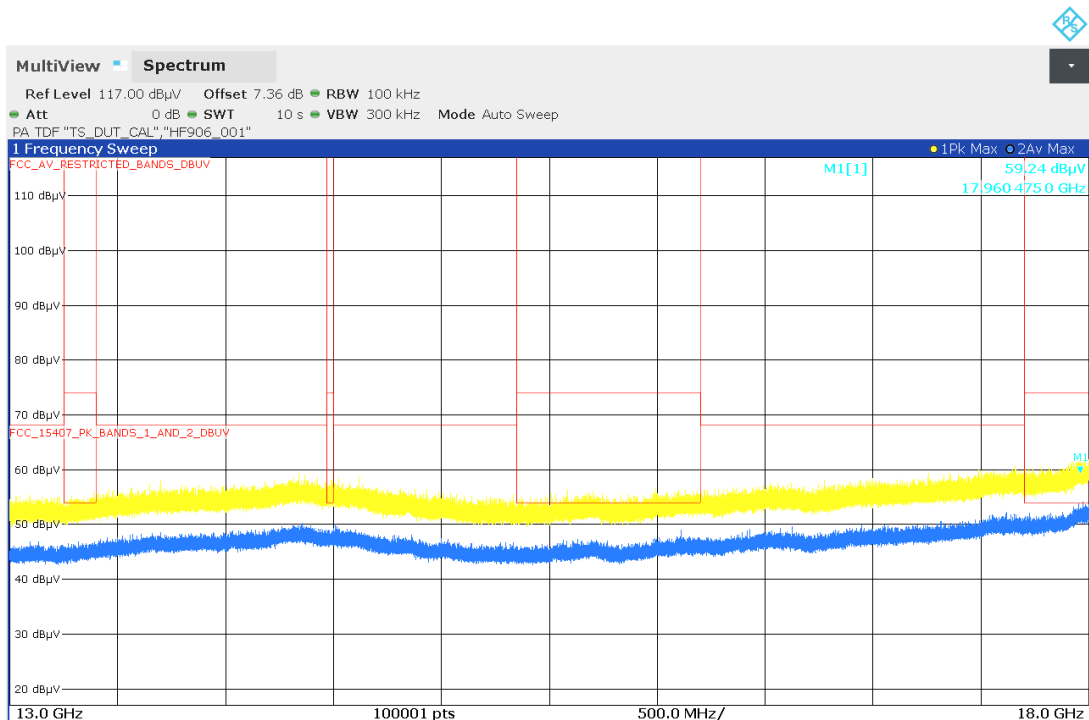
13 GHz – 18 GHz

Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-3,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



10:46:33 AM 11/12/2024

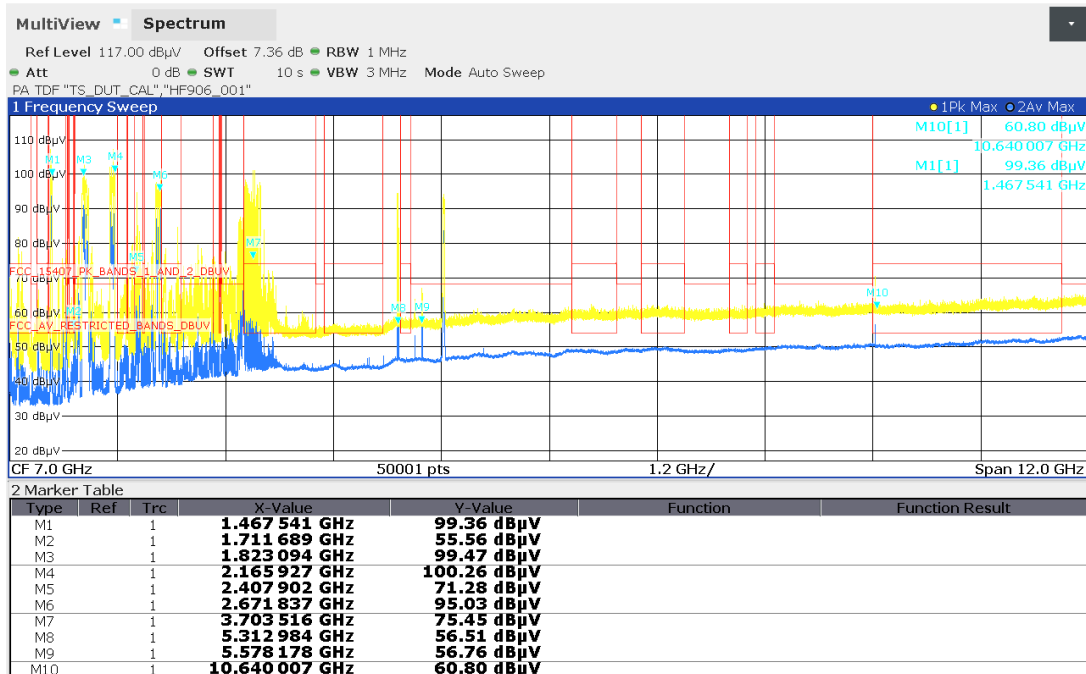
1 GHz – 13 GHz



12:16:58 PM 11/12/2024

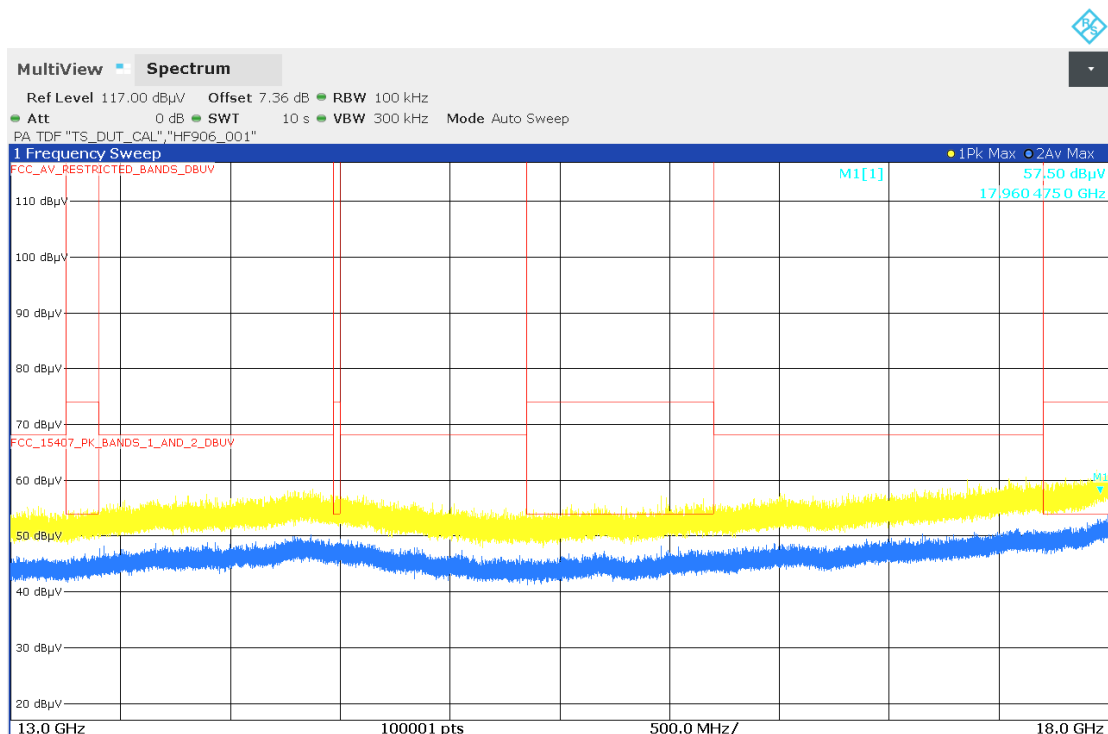
13 GHz – 18 GHz

Radio Technology = WLAN ax 20, Operating Frequency = high, Subband = U-NII-3,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



10:50:02 AM 11/12/2024

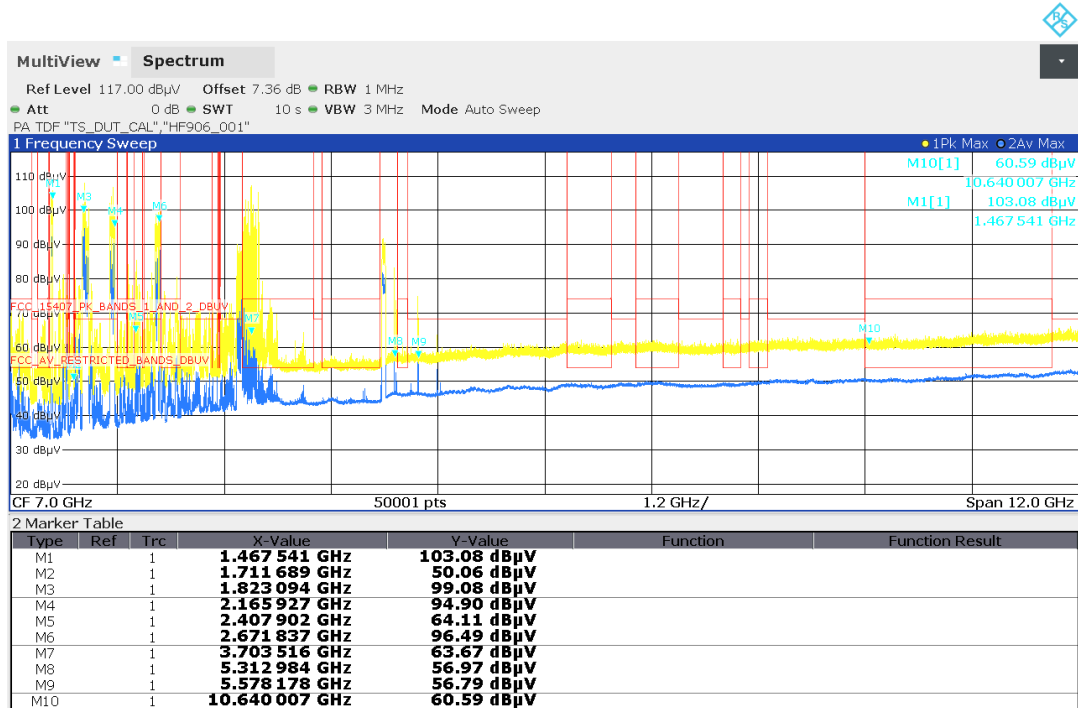
1 GHz – 13 GHz



12:18:51 PM 11/12/2024

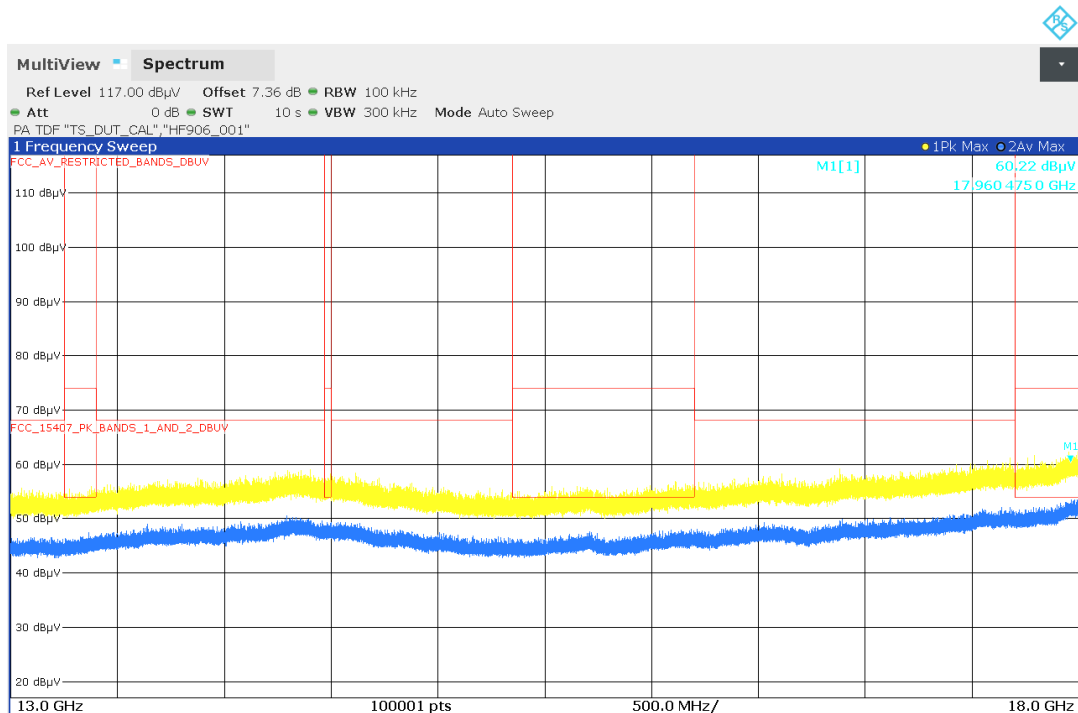
13 GHz – 18 GHz

Radio Technology = WLAN ax 40, Operating Frequency = low, Subband = U-NII-1,
Frequency Range = 1 GHz – 18 GHz, Polarisation = horizontal
(S02_AO04)



10:57:55 AM 11/12/2024

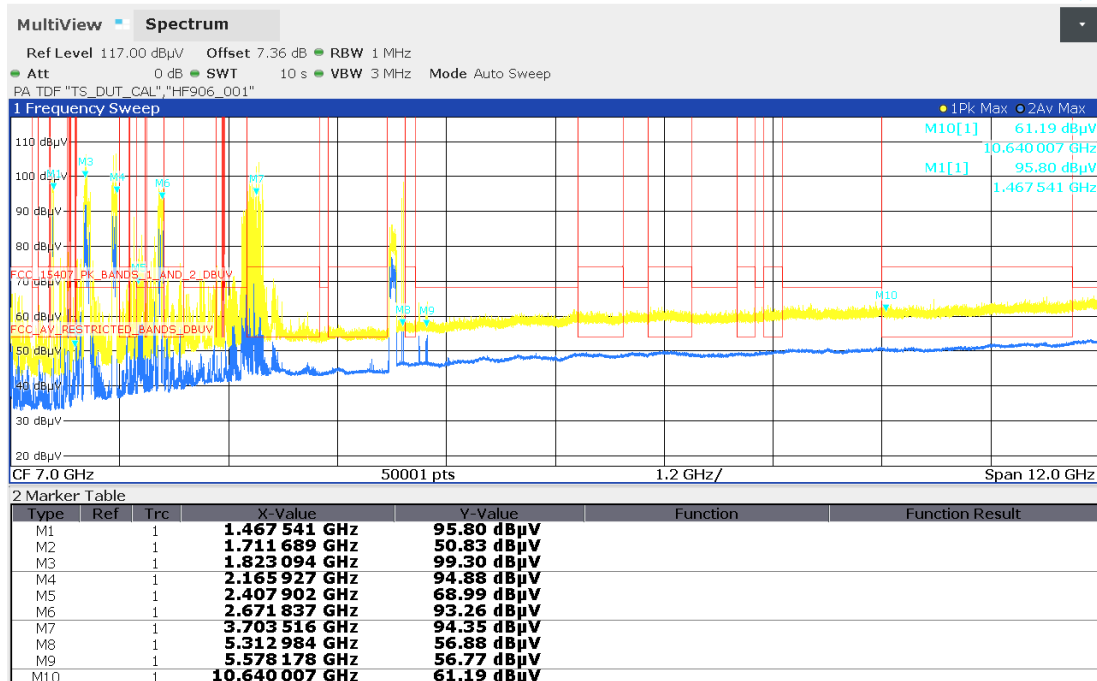
1 GHz – 13 GHz



12:26:26 PM 11/12/2024

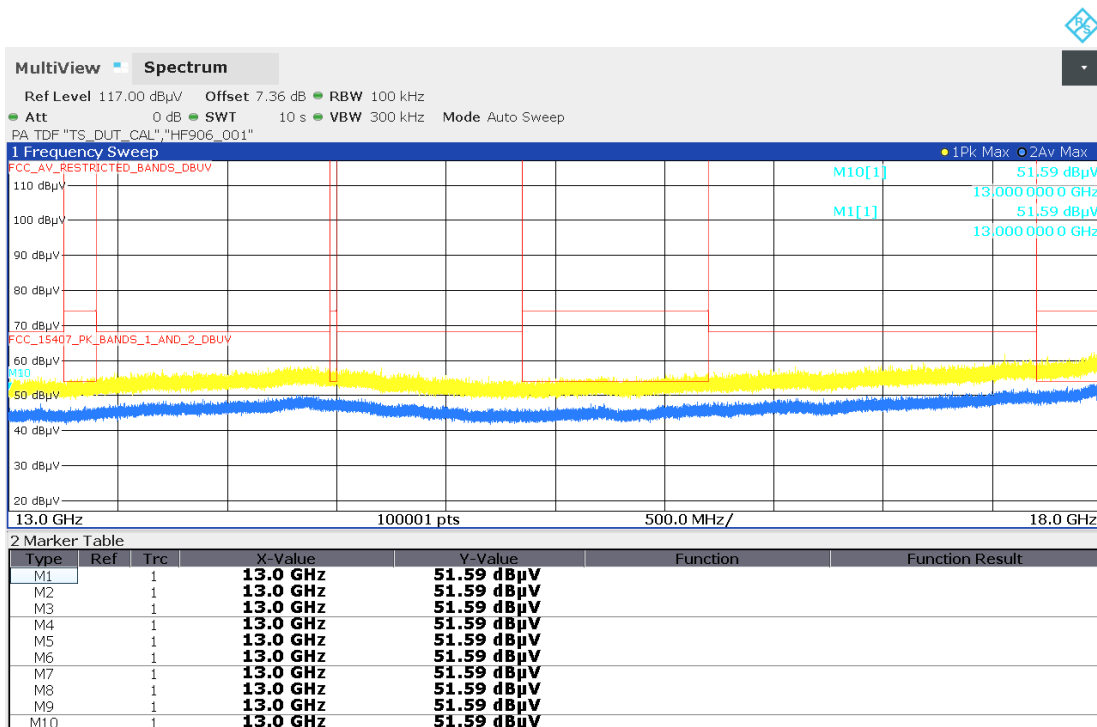
13 GHz – 18 GHz

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



11:03:16 AM 11/12/2024

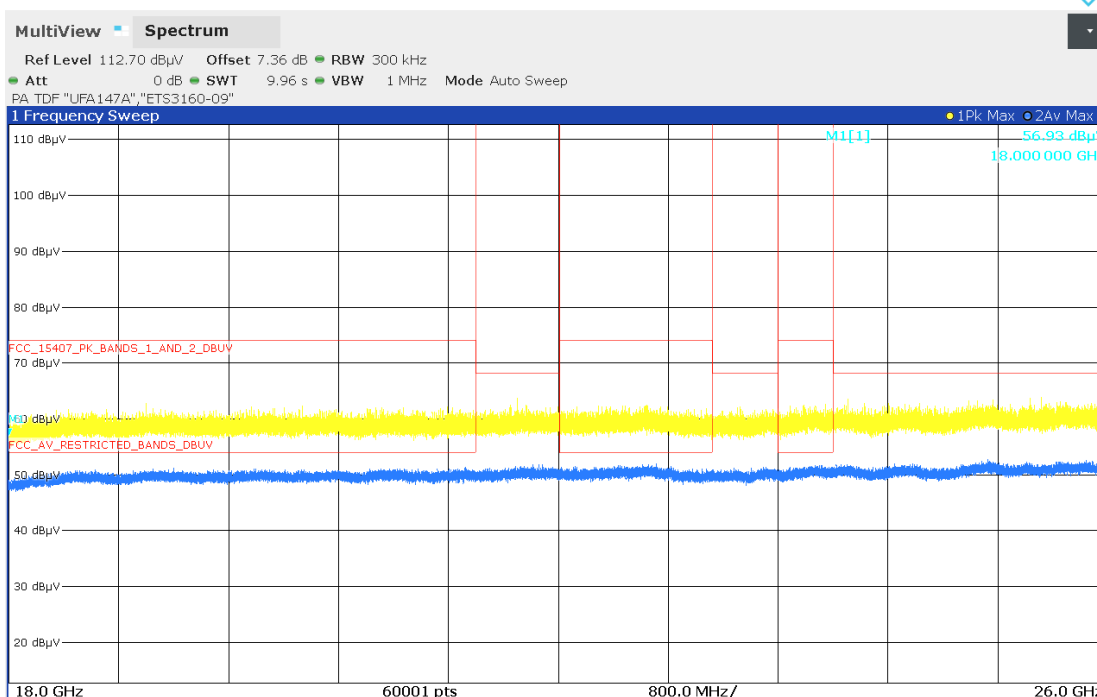
1 GHz – 13 GHz



11:07:46 AM 11/12/2024

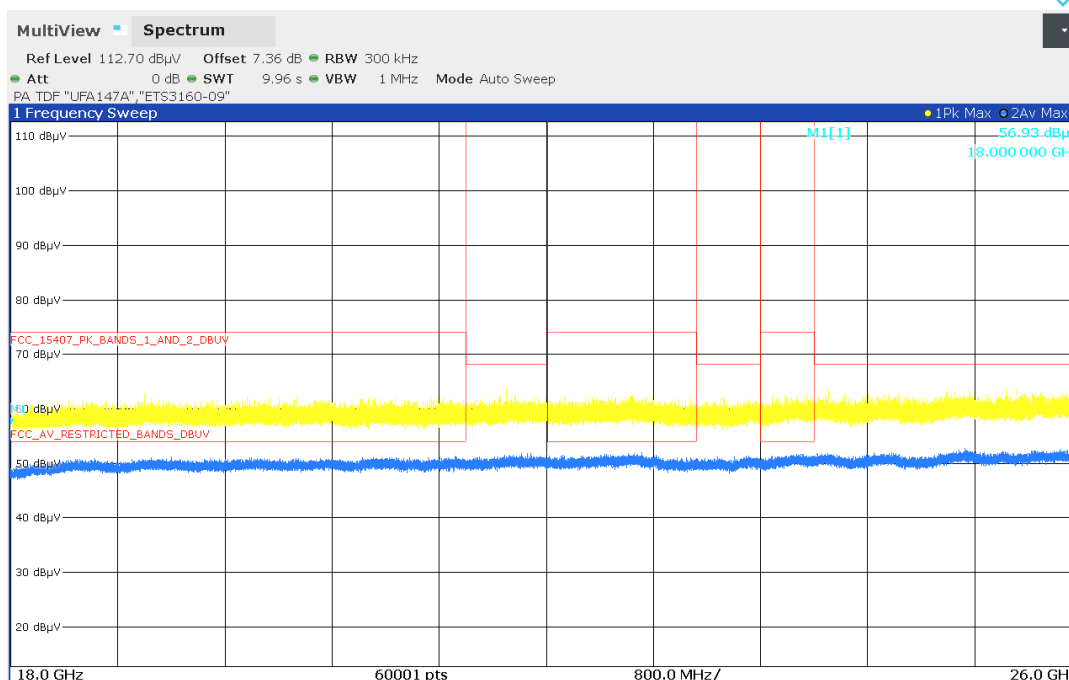
13 GHz – 18 GHz

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



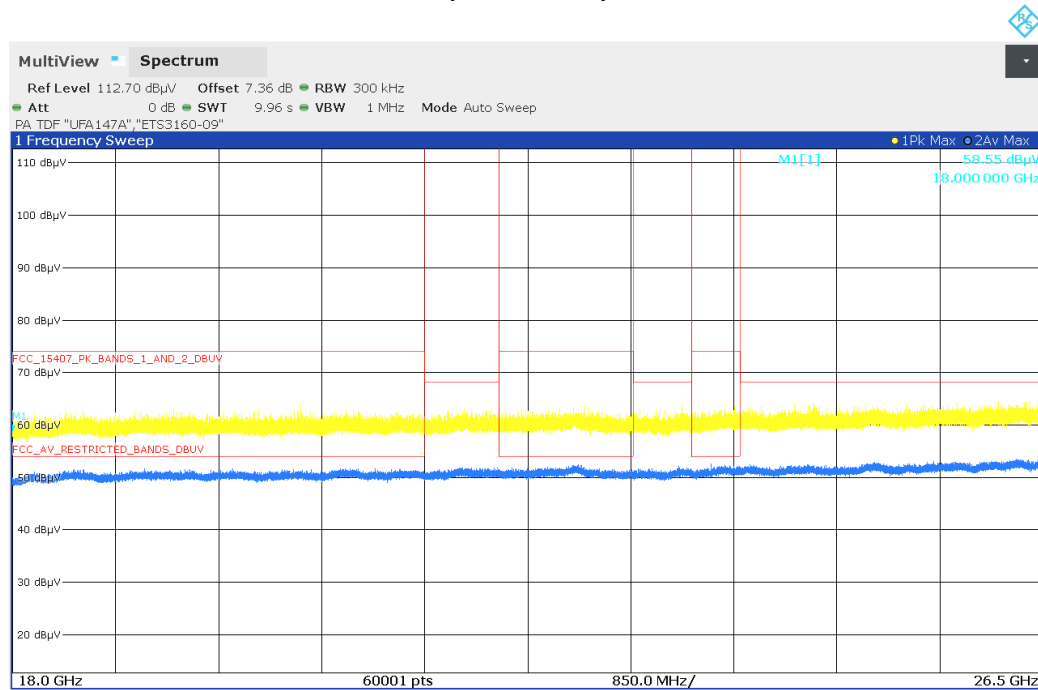
05:10:30 PM 11/12/2024

Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-1,
Frequency Range = 18 GHz – 26.5 GHz, Polarisation = horizontal
(S02_A004)



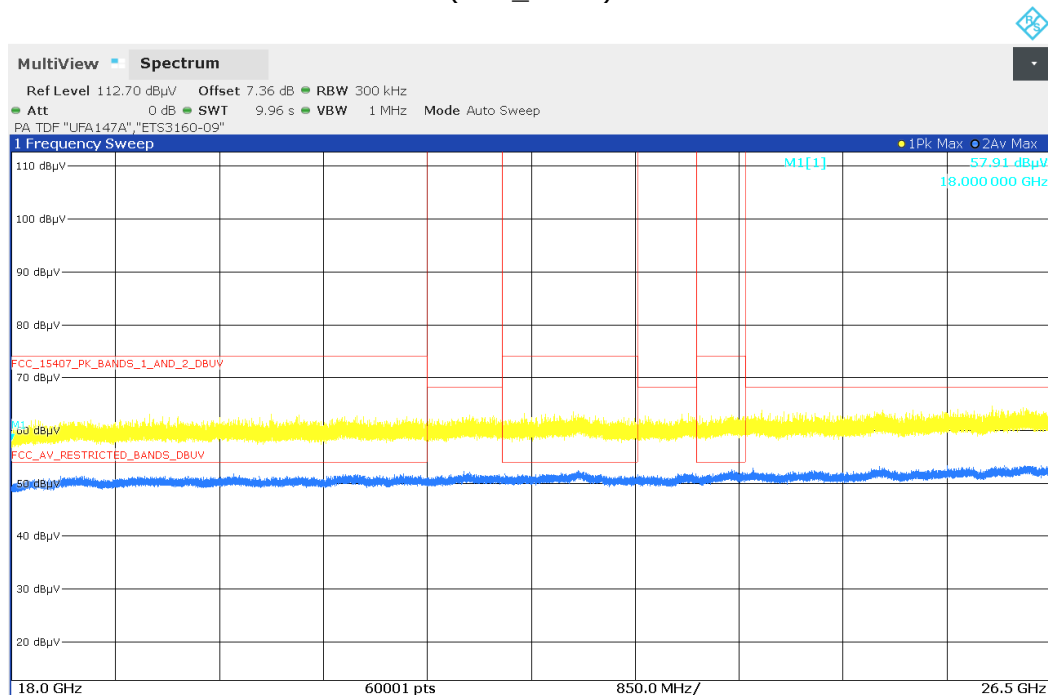
05:10:30 PM 11/12/2024

Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-3,
Frequency Range = 18 GHz – 26.5 GHz, Polarisation = horizontal
(S02_A004)



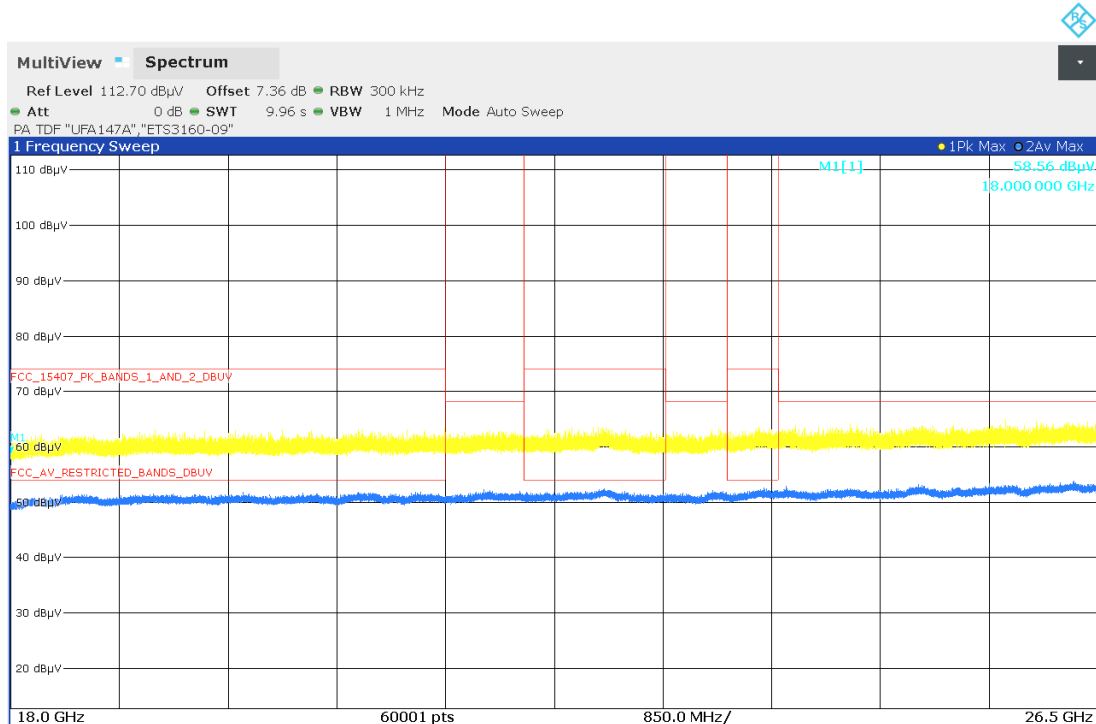
04:06:43 PM 11/12/2024

Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-1,
Frequency Range = 18 GHz – 26.5 GHz, Polarisation = horizontal
(S02_A004)

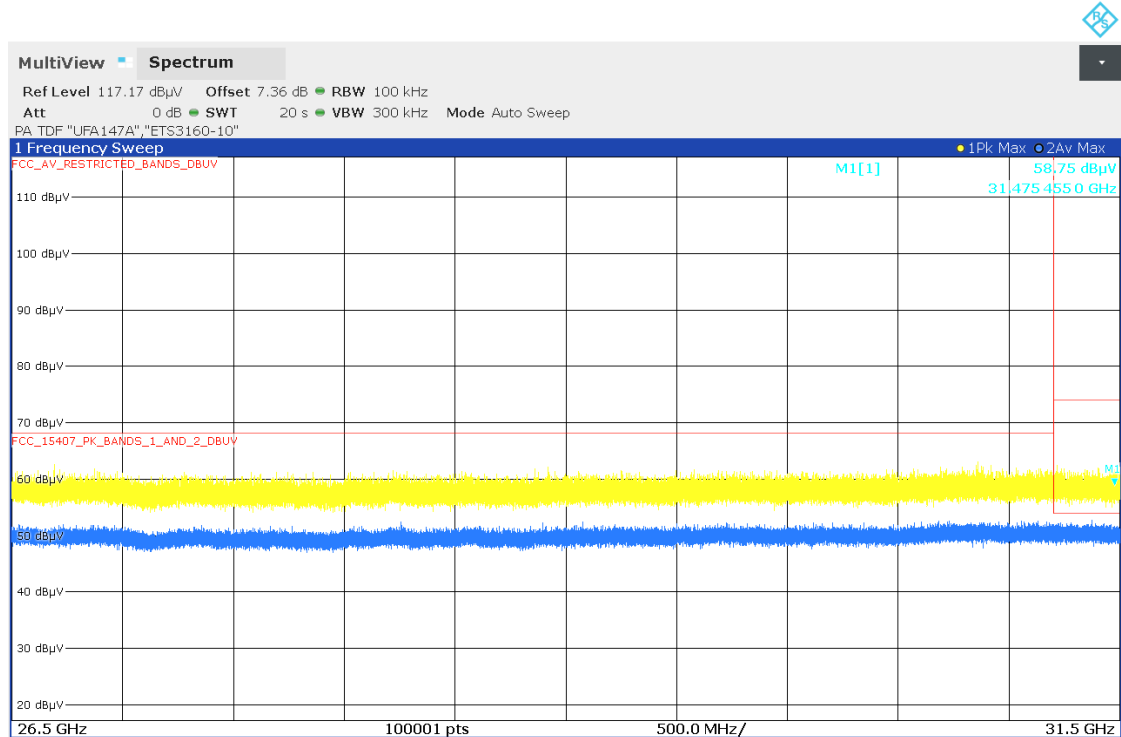


04:12:45 PM 11/12/2024

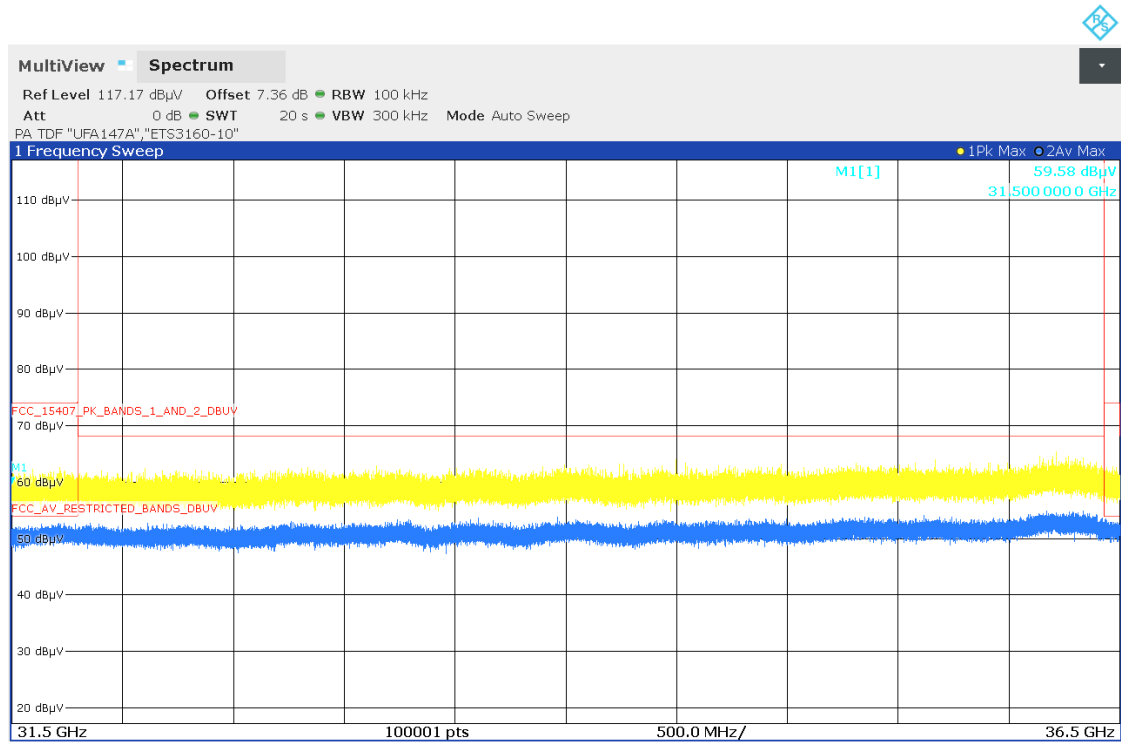
Radio Technology = WLAN ax 20, Operating Frequency = mid, Subband = U-NII-3,
Frequency Range = 18 GHz – 26.5 GHz, Polarisation = horizontal
(S02_AO04)



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

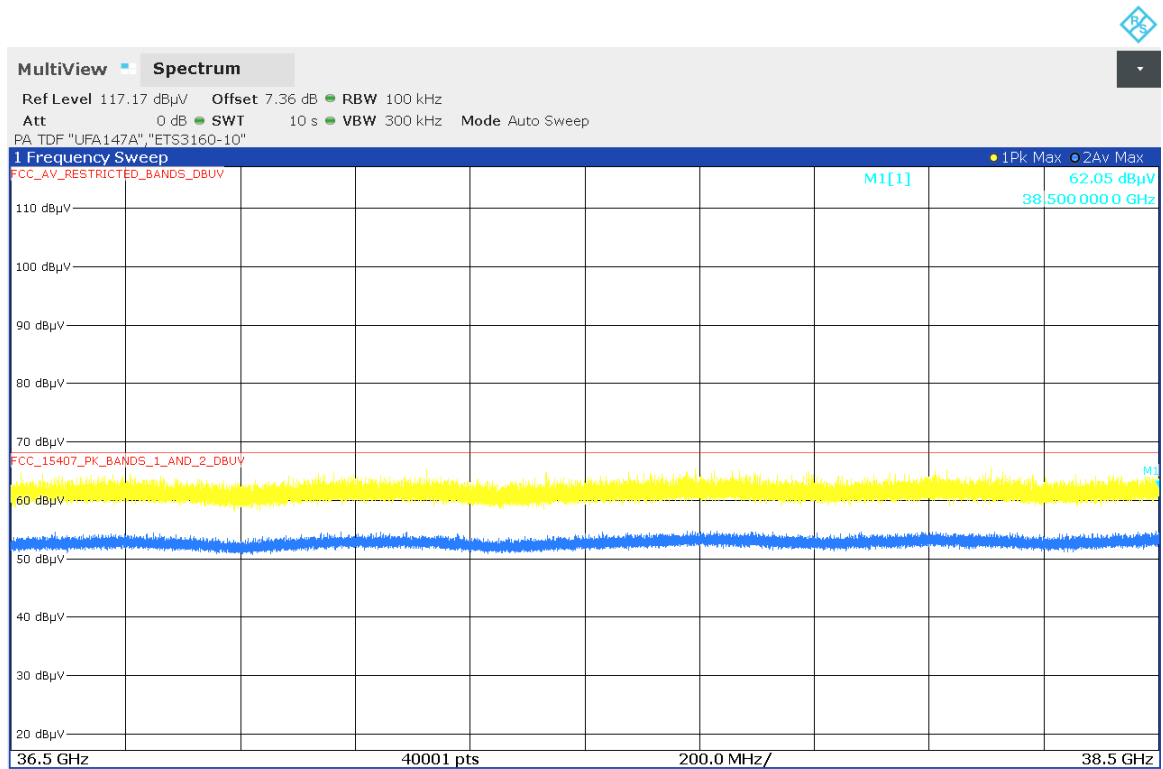


26.5 GHz – 31.5 GHz



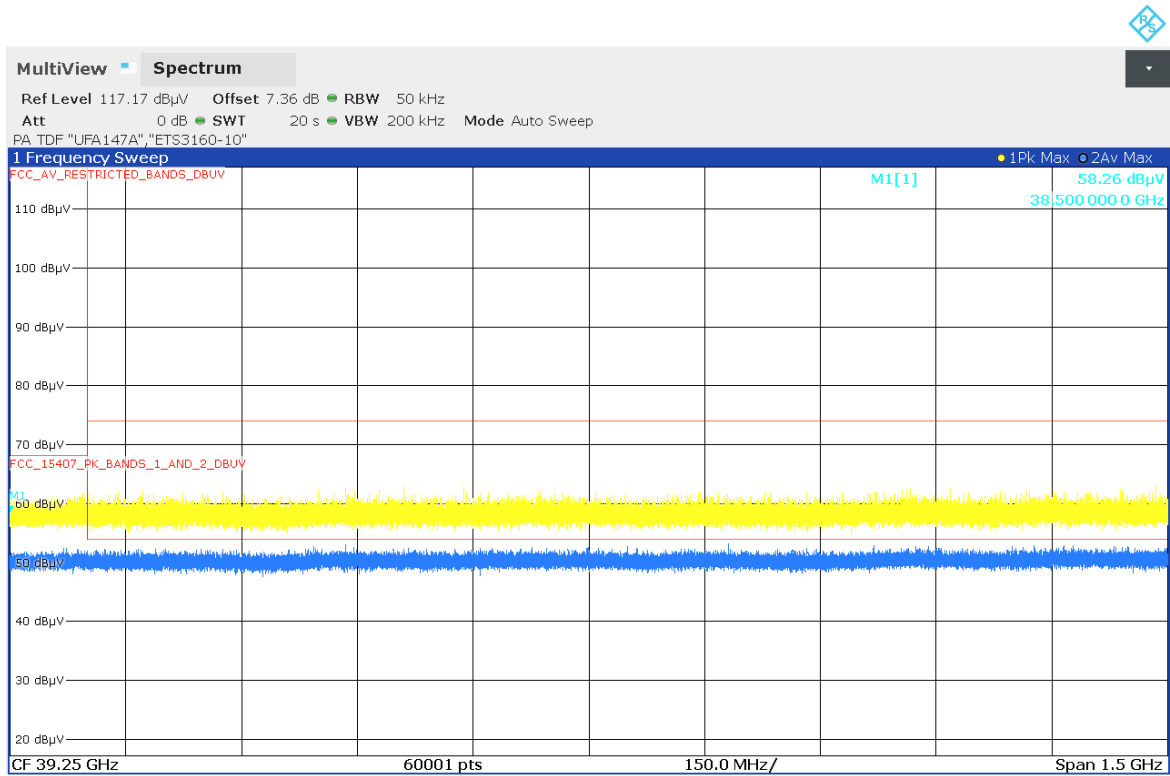
05:06:07 PM 11/12/2024

31.5 GHz – 36.5 GHz



05:07:48 PM 11/12/2024

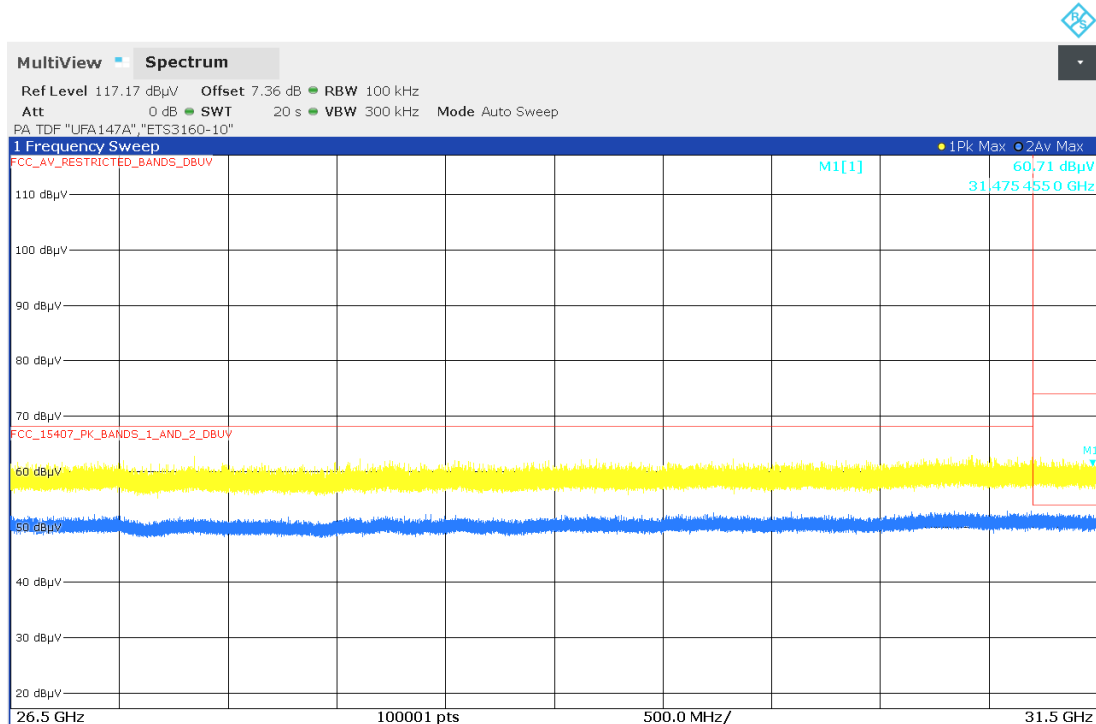
36.5 GHz – 38.5 GHz



05:09:26 PM 11/12/2024

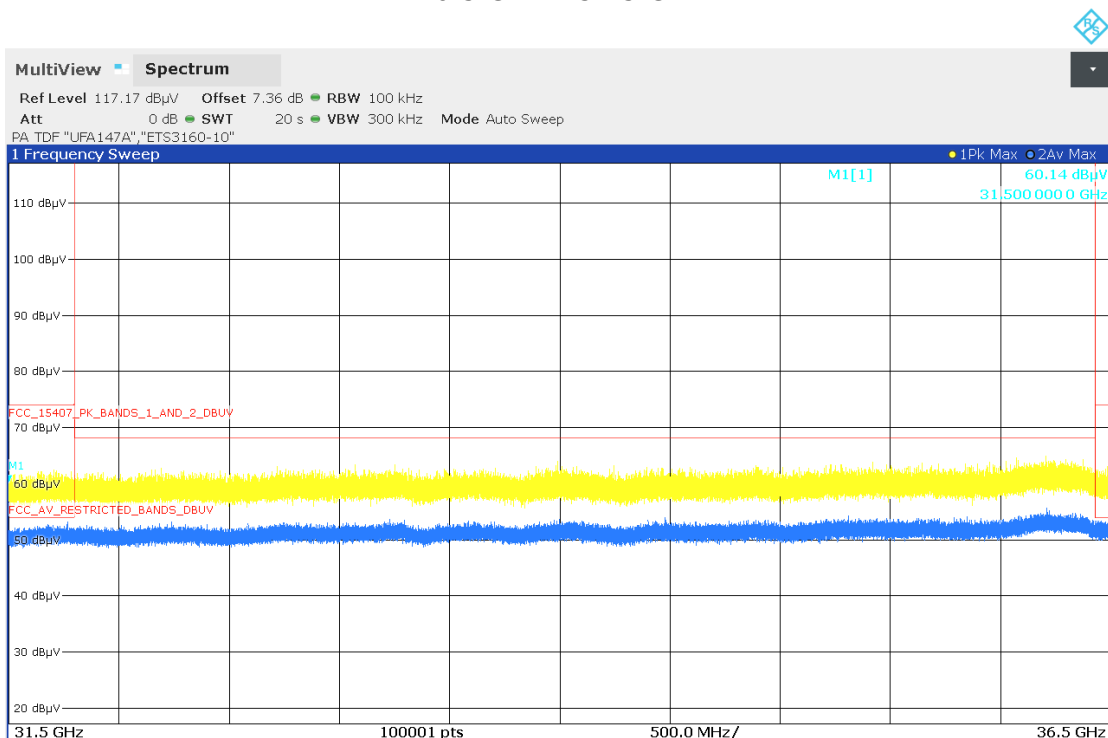
38.5 GHz – 40.0 GHz

Radio Technology = WLAN a, Operating Frequency = mid, Subband = U-NII-1,
Frequency Range = 26.5 GHz -40 GHz, Polarisation = horizontal
(S02_AO04)



04:52:01 PM 11/12/2024

26.5 GHz – 31.5 GHz



04:53:53 PM 11/12/2024

31.5 GHz – 36.5 GHz