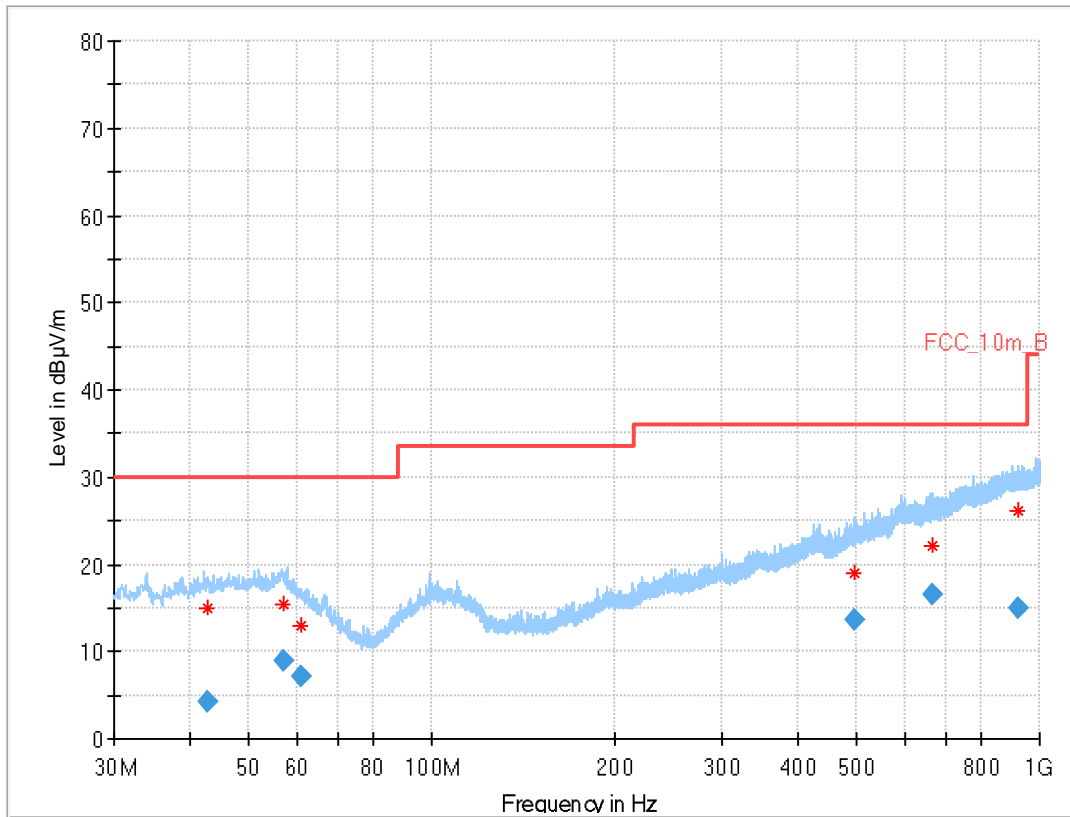


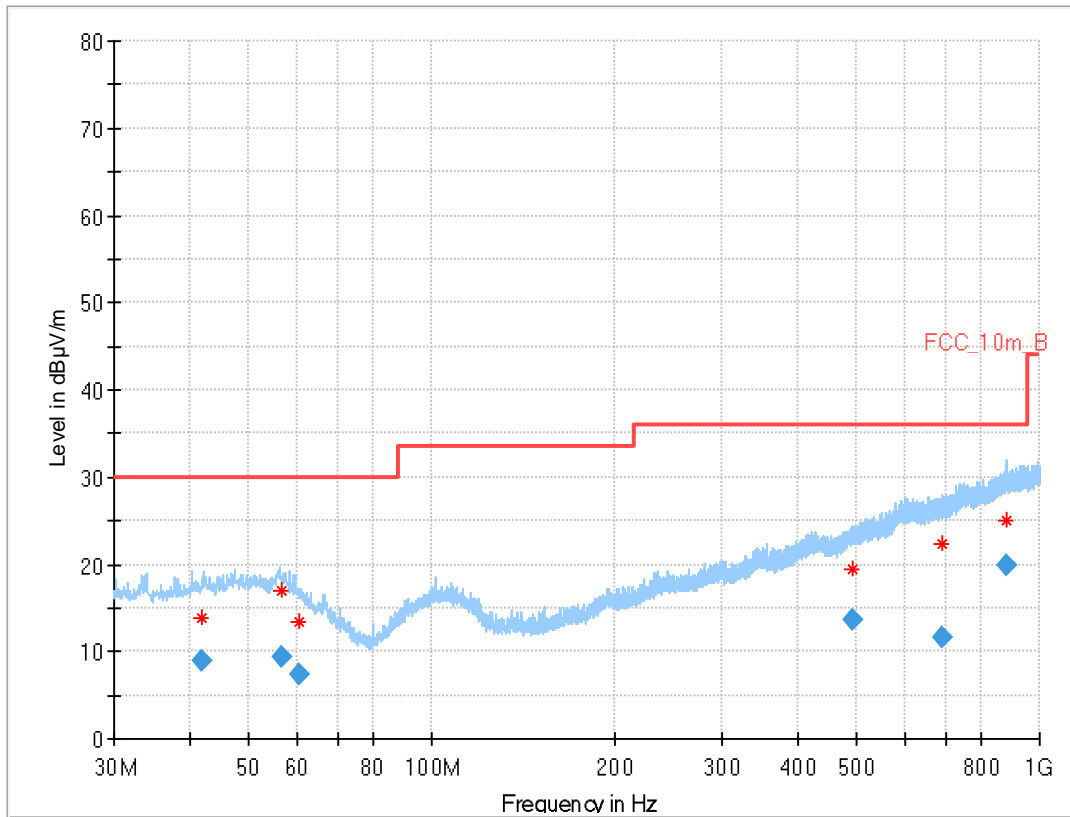
Plot 10: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-3; lowest channel



Results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
42.648	4.22	30.0	25.8	1000	120.0	170.0	V	20	14
57.220	8.92	30.0	21.1	1000	120.0	105.0	V	255	15
60.888	7.25	30.0	22.8	1000	120.0	170.0	V	66	13
494.838	13.62	36.0	22.4	1000	120.0	106.0	H	175	18
664.506	16.50	36.0	19.5	1000	120.0	170.0	V	292	21
922.056	15.05	36.0	21.0	1000	120.0	170.0	H	28	24

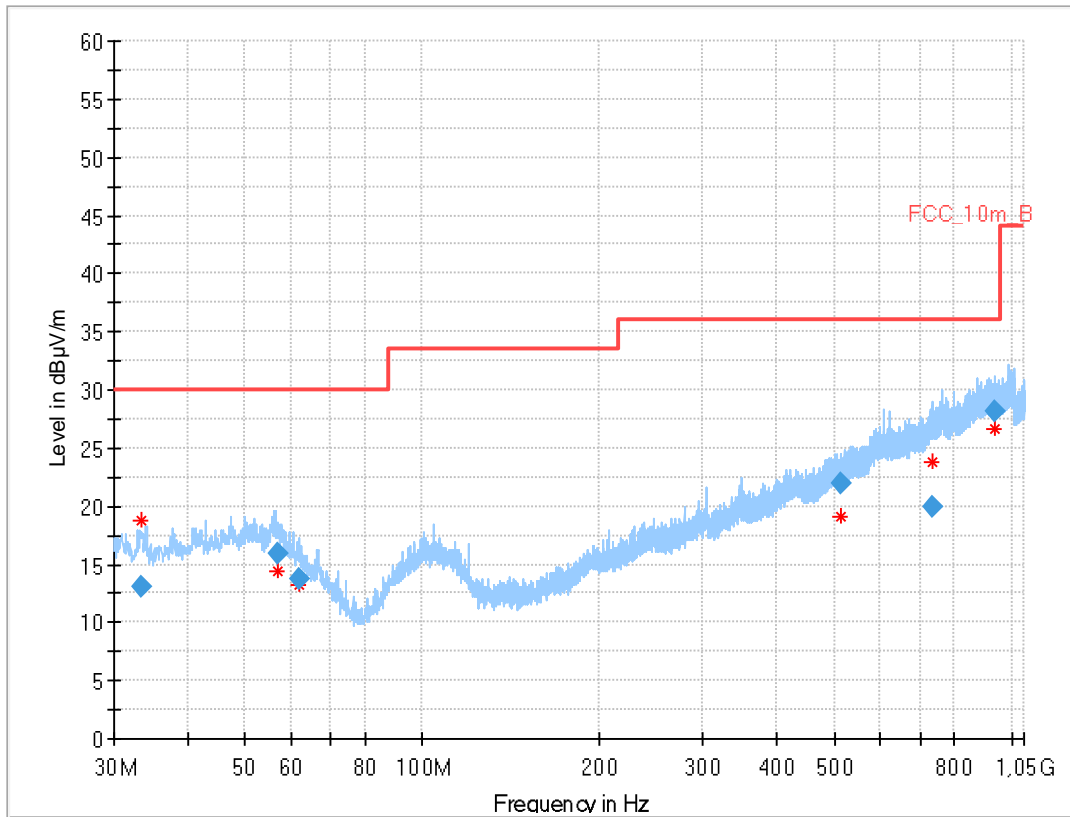
Plot 11: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-3; middle channel



Results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
41.928	8.87	30.0	21.1	1000	120.0	170.0	H	340	14
56.427	9.41	30.0	20.6	1000	120.0	149.0	H	215	15
60.448	7.27	30.0	22.7	1000	120.0	163.0	H	103	13
492.855	13.61	36.0	22.4	1000	120.0	170.0	H	259	18
690.460	11.71	36.0	24.3	1000	120.0	170.0	H	226	21
882.620	19.82	36.0	16.2	1000	120.0	102.0	H	339	23

Plot 12: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-3; highest channel

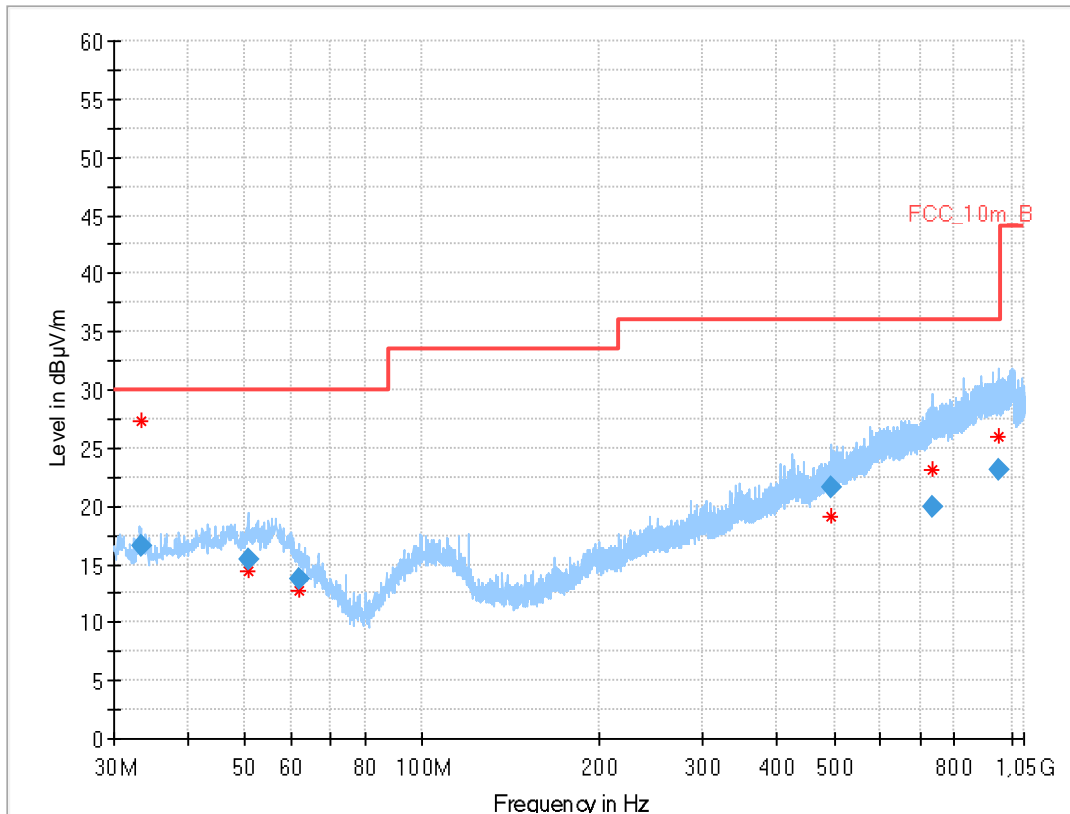


Results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
33.436	13.01	30.0	17.0	1000	120.0	101.0	V	67	12
56.998	15.94	30.0	14.1	1000	120.0	170.0	V	157	15
61.978	13.72	30.0	16.3	1000	120.0	170.0	H	-12	12
512.982	21.91	36.0	14.1	1000	120.0	170.0	H	-18	19
735.520	19.99	36.0	16.0	1000	120.0	148.0	V	247	22
933.785	28.09	36.0	7.9	1000	120.0	170.0	H	168	24

Plots: 40 MHz channel bandwidth

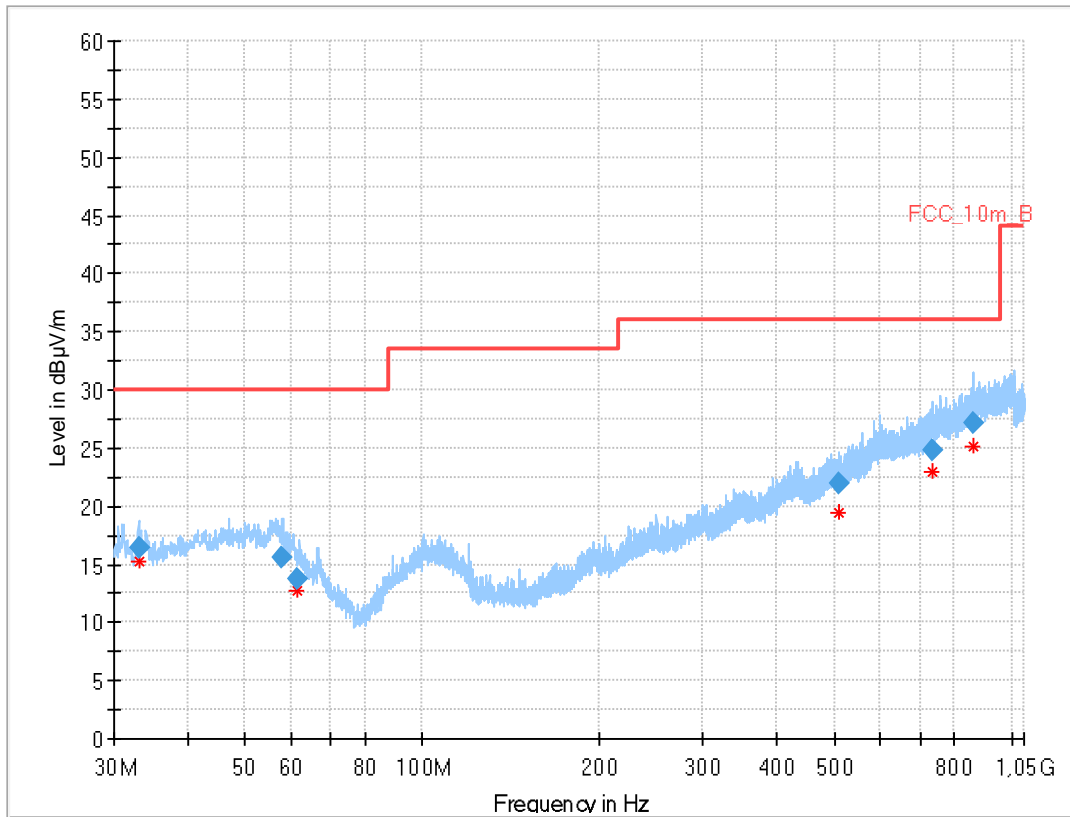
Plot 13: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-1; lowest channel



Results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
33.356	16.62	30.0	13.4	1000	120.0	114.0	V	-16	12
50.875	15.37	30.0	14.6	1000	120.0	170.0	H	-21	14
61.617	13.70	30.0	16.3	1000	120.0	170.0	V	67	12
494.014	21.62	36.0	14.4	1000	120.0	151.0	H	67	18
734.235	19.92	36.0	16.1	1000	120.0	170.0	V	97	22
952.409	23.09	36.0	12.9	1000	120.0	115.0	H	247	24

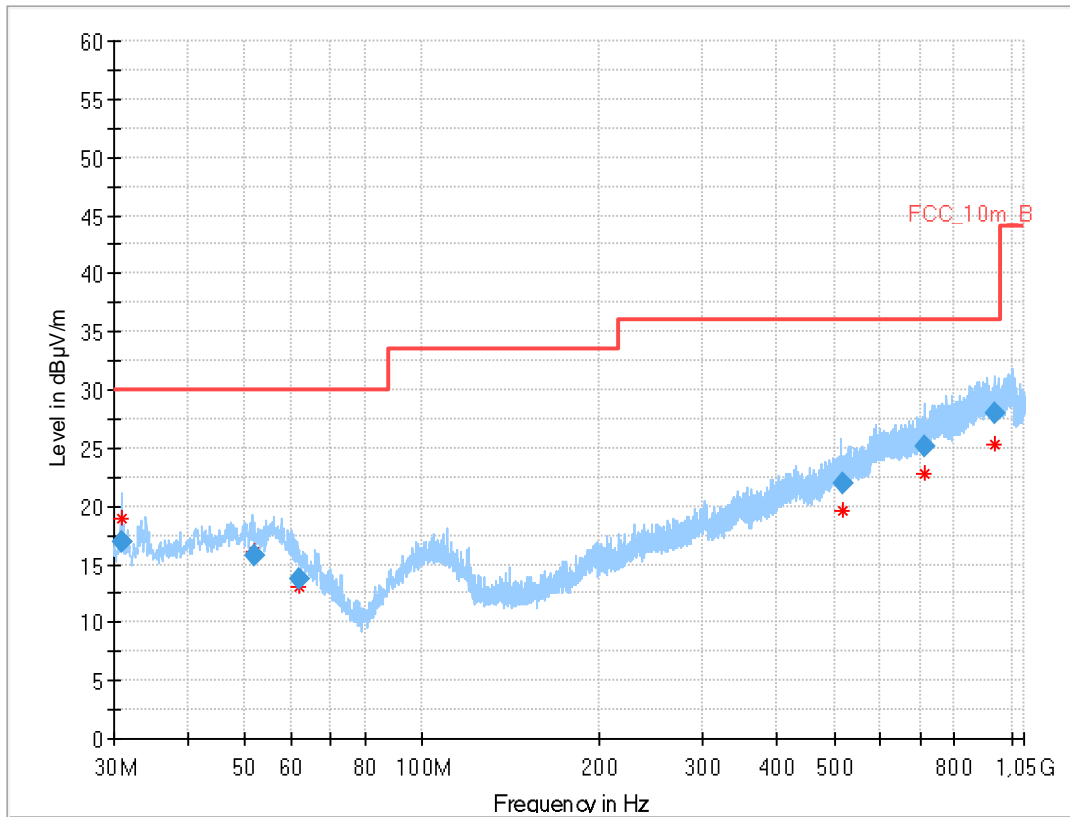
Plot 14: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-1; highest channel



Results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
33.161	16.42	30.0	13.6	1000	120.0	113.0	H	195	12
57.641	15.62	30.0	14.4	1000	120.0	98.0	V	247	14
61.557	13.68	30.0	16.3	1000	120.0	134.0	H	67	12
509.160	21.88	36.0	14.1	1000	120.0	105.0	H	157	18
732.891	24.74	36.0	11.3	1000	120.0	170.0	V	22	22
860.284	27.19	36.0	8.8	1000	120.0	164.0	H	247	23

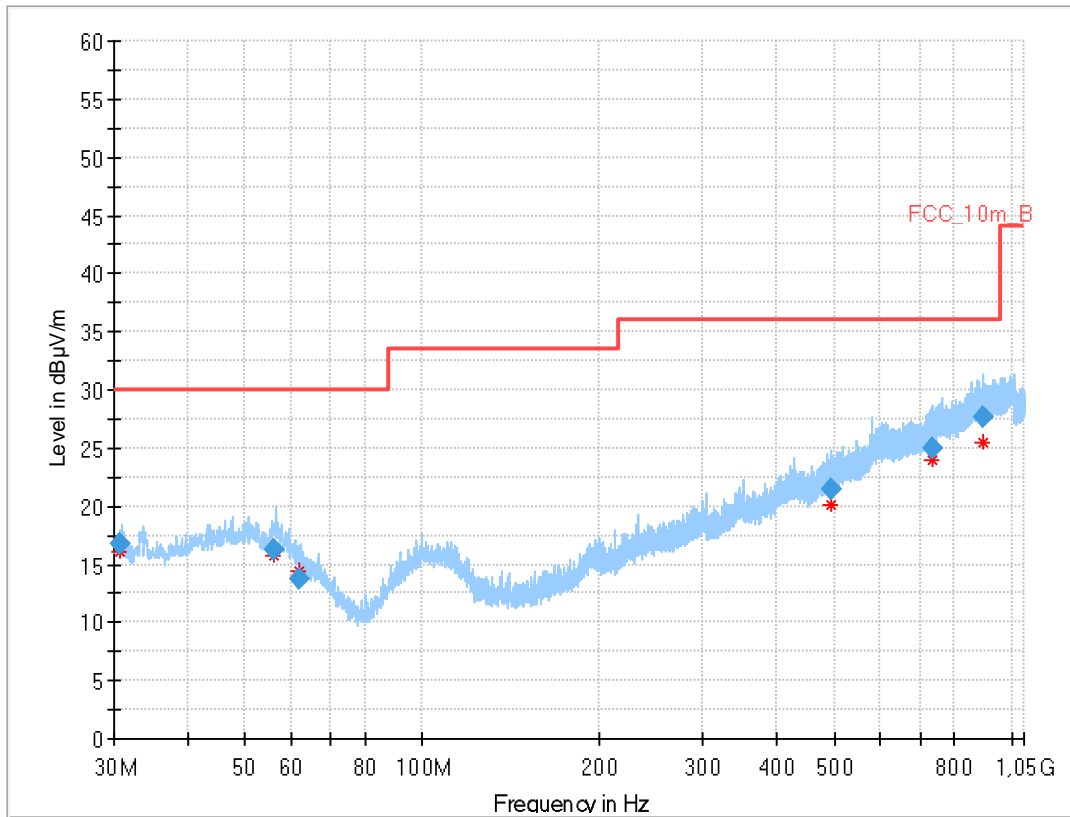
Plot 15: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-2A; lowest channel



Results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.905	16.98	30.0	13.0	1000	120.0	98.0	V	192	12
51.998	15.76	30.0	14.2	1000	120.0	146.0	V	22	14
61.732	13.82	30.0	16.2	1000	120.0	161.0	H	67	12
515.536	22.02	36.0	14.0	1000	120.0	164.0	V	247	19
714.291	25.14	36.0	10.9	1000	120.0	170.0	H	157	21
933.311	28.03	36.0	8.0	1000	120.0	170.0	V	292	24

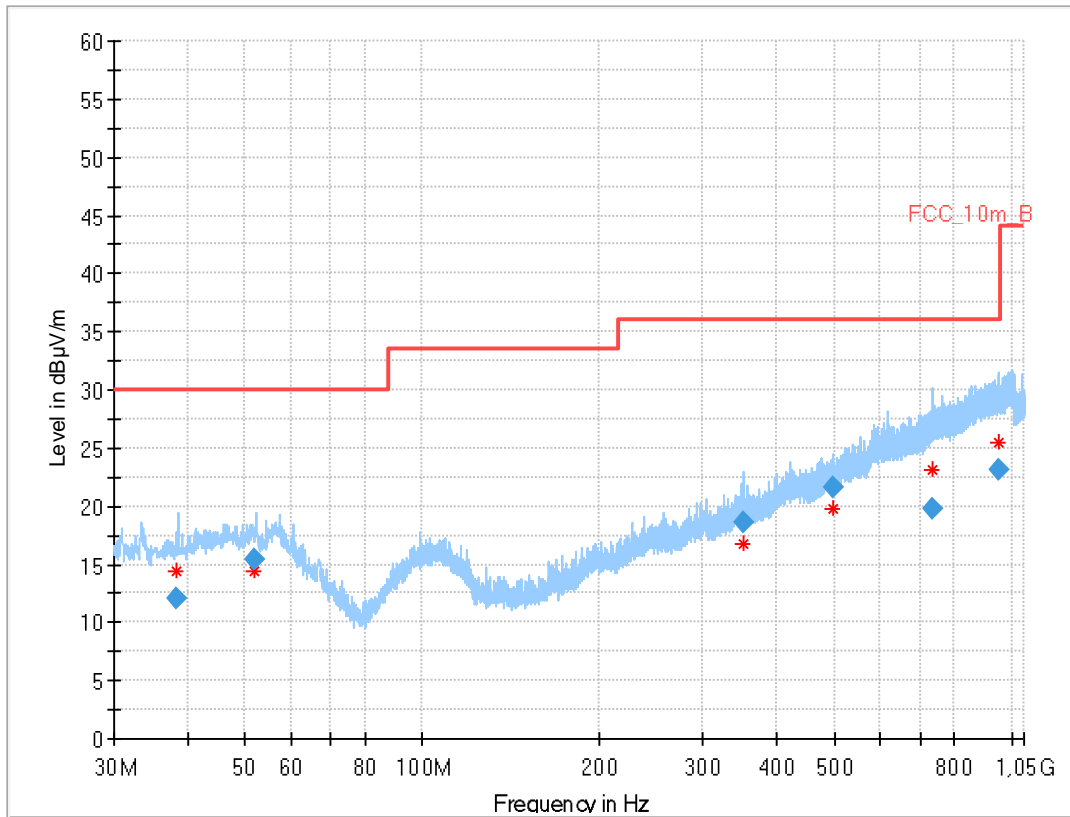
Plot 16: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-2A; highest channel



Results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.778	16.73	30.0	13.3	1000	120.0	102.0	V	247	12
56.022	16.26	30.0	13.7	1000	120.0	170.0	H	67	15
61.980	13.71	30.0	16.3	1000	120.0	170.0	H	9	12
493.766	21.50	36.0	14.5	1000	120.0	170.0	V	13	18
735.286	24.89	36.0	11.1	1000	120.0	170.0	H	249	22
893.332	27.73	36.0	8.3	1000	120.0	170.0	H	-22	24

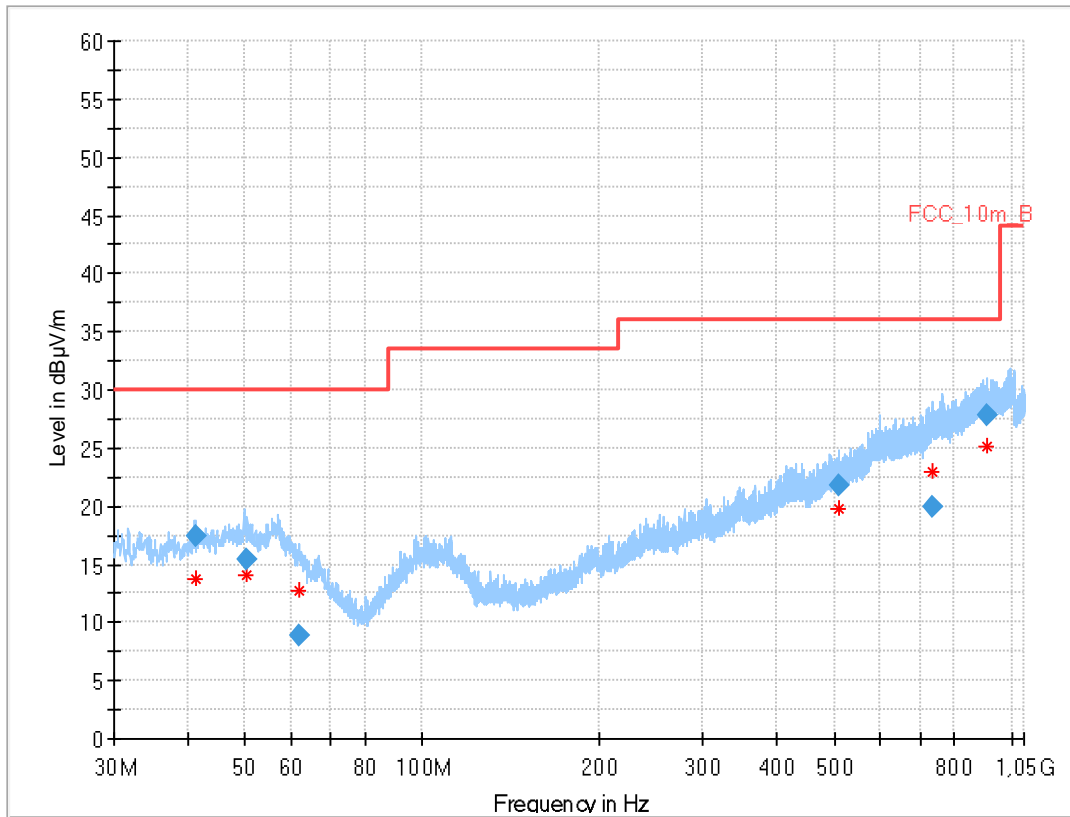
Plot 17: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



Results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
38.163	12.03	30.0	18.0	1000	120.0	170.0	V	157	13
51.995	15.37	30.0	14.6	1000	120.0	170.0	H	67	14
349.595	18.57	36.0	17.4	1000	120.0	170.0	H	157	16
499.538	21.65	36.0	14.4	1000	120.0	170.0	V	22	18
734.245	19.85	36.0	16.2	1000	120.0	170.0	H	247	22
951.013	23.08	36.0	12.9	1000	120.0	128.0	H	247	24

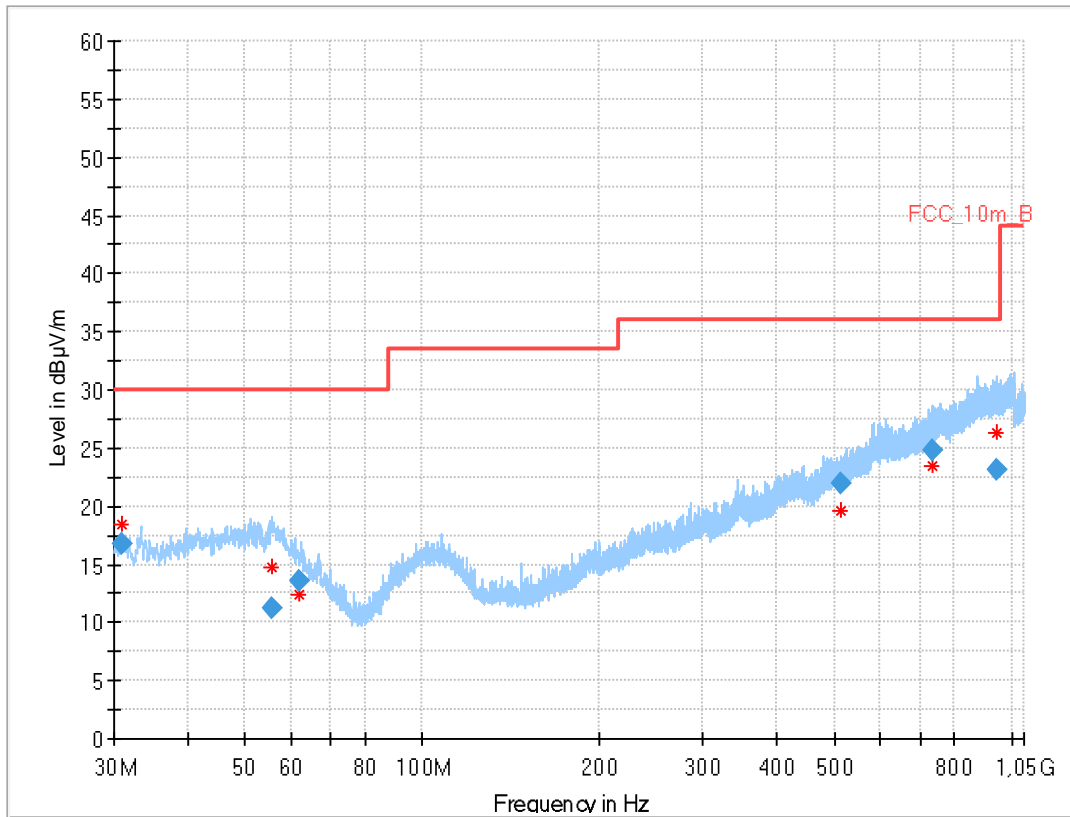
Plot 18: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-2C; middle channel



Results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
41.426	17.51	30.0	12.5	1000	120.0	170.0	H	157	14
50.348	15.49	30.0	14.5	1000	120.0	137.0	V	112	14
61.643	8.87	30.0	21.1	1000	120.0	104.0	V	96	12
508.309	21.81	36.0	14.2	1000	120.0	170.0	V	247	18
735.751	19.87	36.0	16.1	1000	120.0	170.0	V	268	22
912.035	27.84	36.0	8.2	1000	120.0	170.0	H	70	24

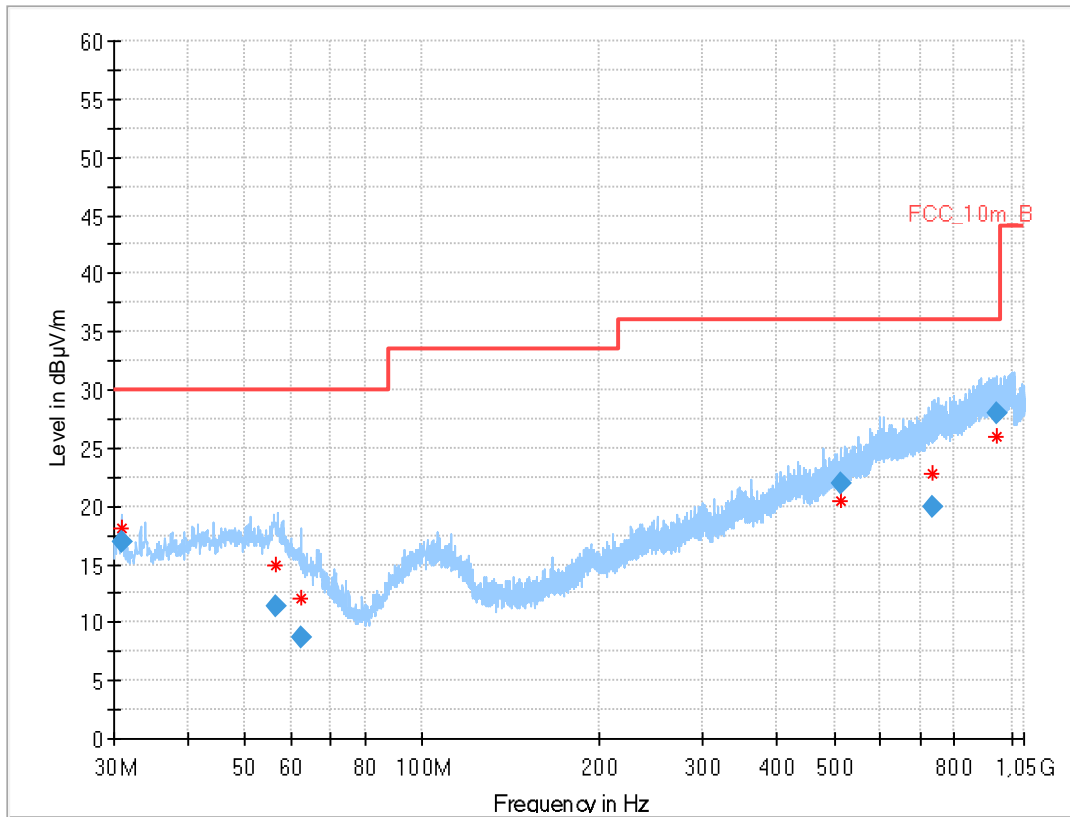
Plot 19: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-2C; highest channel



Results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.949	16.74	30.0	13.3	1000	120.0	112.0	V	105	12
55.727	11.16	30.0	18.8	1000	120.0	170.0	V	88	15
62.033	13.64	30.0	16.4	1000	120.0	170.0	V	157	12
511.436	21.95	36.0	14.1	1000	120.0	166.0	V	67	19
733.545	24.75	36.0	11.3	1000	120.0	170.0	H	157	22
946.558	23.10	36.0	12.9	1000	120.0	170.0	H	-19	24

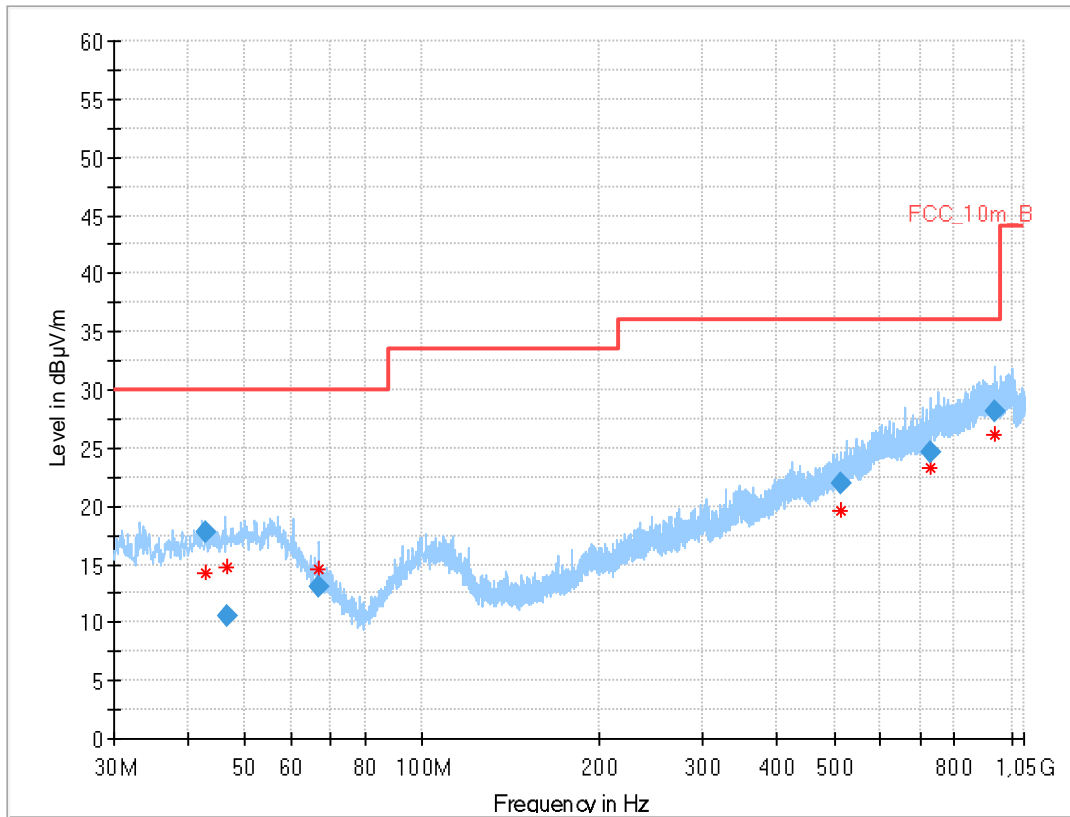
Plot 20: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-3; lowest channel



Results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.930	16.87	30.0	13.1	1000	120.0	98.0	V	202	12
56.308	11.37	30.0	18.6	1000	120.0	157.0	H	89	15
62.070	8.74	30.0	21.3	1000	120.0	170.0	V	157	12
513.801	22.03	36.0	14.0	1000	120.0	102.0	H	247	19
735.626	19.94	36.0	16.1	1000	120.0	165.0	V	159	22
945.208	28.05	36.0	8.0	1000	120.0	170.0	V	157	24

Plot 21: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-3; highest channel

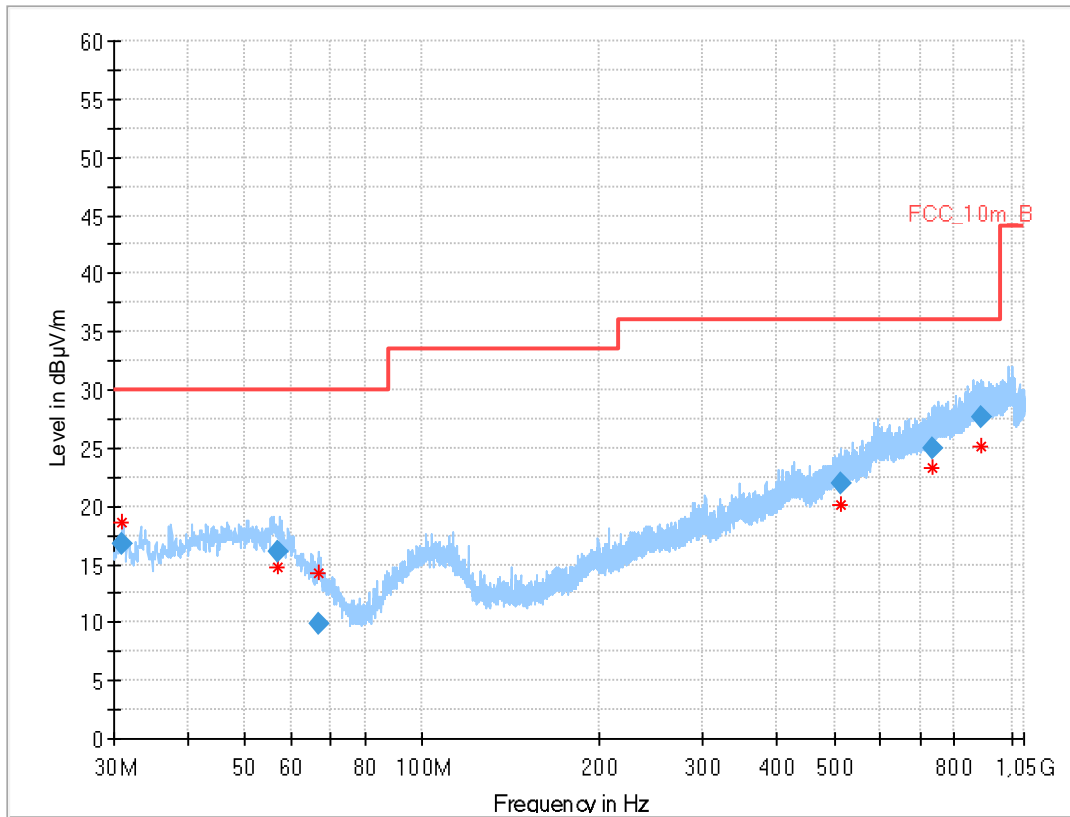


Results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
42.820	17.70	30.0	12.3	1000	120.0	170.0	V	157	14
46.709	10.48	30.0	19.5	1000	120.0	134.0	V	255	14
66.575	13.10	30.0	16.9	1000	120.0	98.0	H	247	11
513.809	21.94	36.0	14.1	1000	120.0	170.0	H	112	19
730.787	24.69	36.0	11.3	1000	120.0	170.0	H	67	21
934.321	28.19	36.0	7.8	1000	120.0	170.0	H	157	24

Plots: 80 MHz channel bandwidth

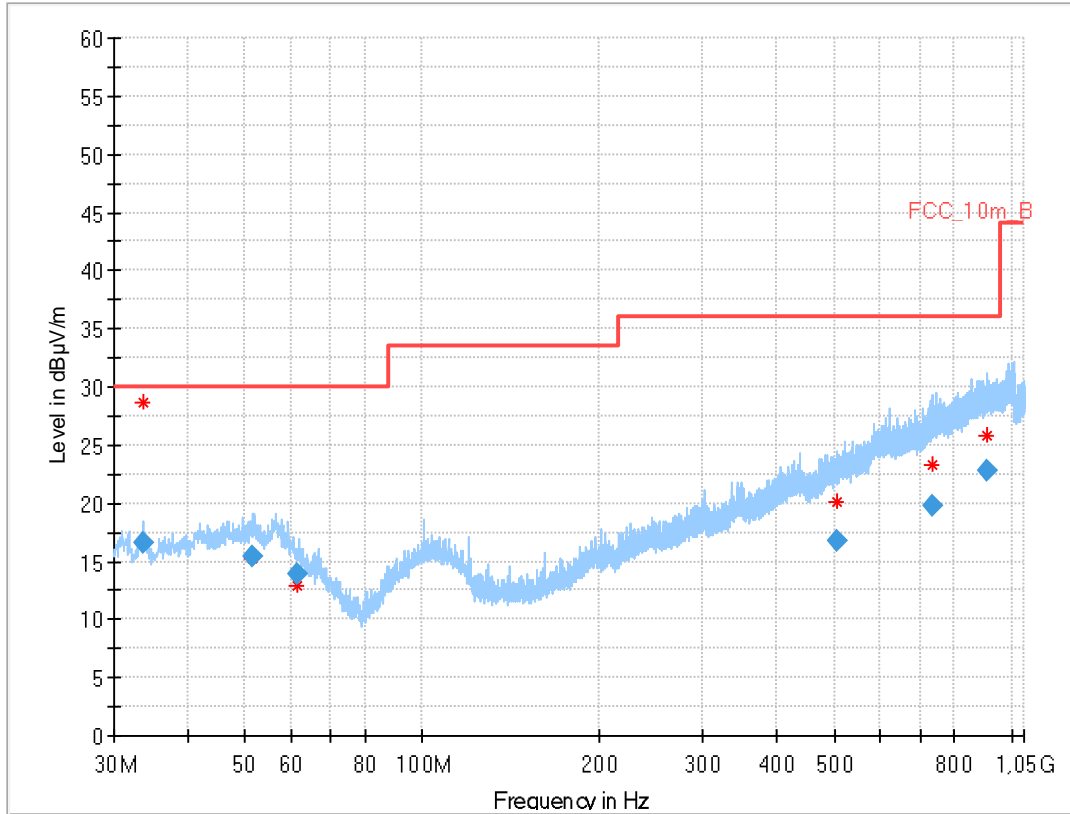
Plot 22: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-1; middle channel



Results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.908	16.80	30.0	13.2	1000	120.0	98.0	V	247	12
56.886	16.03	30.0	14.0	1000	120.0	170.0	H	157	15
66.565	9.94	30.0	20.1	1000	120.0	110.0	H	292	11
513.013	21.91	36.0	14.1	1000	120.0	162.0	H	157	19
735.314	24.90	36.0	11.1	1000	120.0	170.0	V	247	22
890.681	27.62	36.0	8.4	1000	120.0	170.0	V	5	24

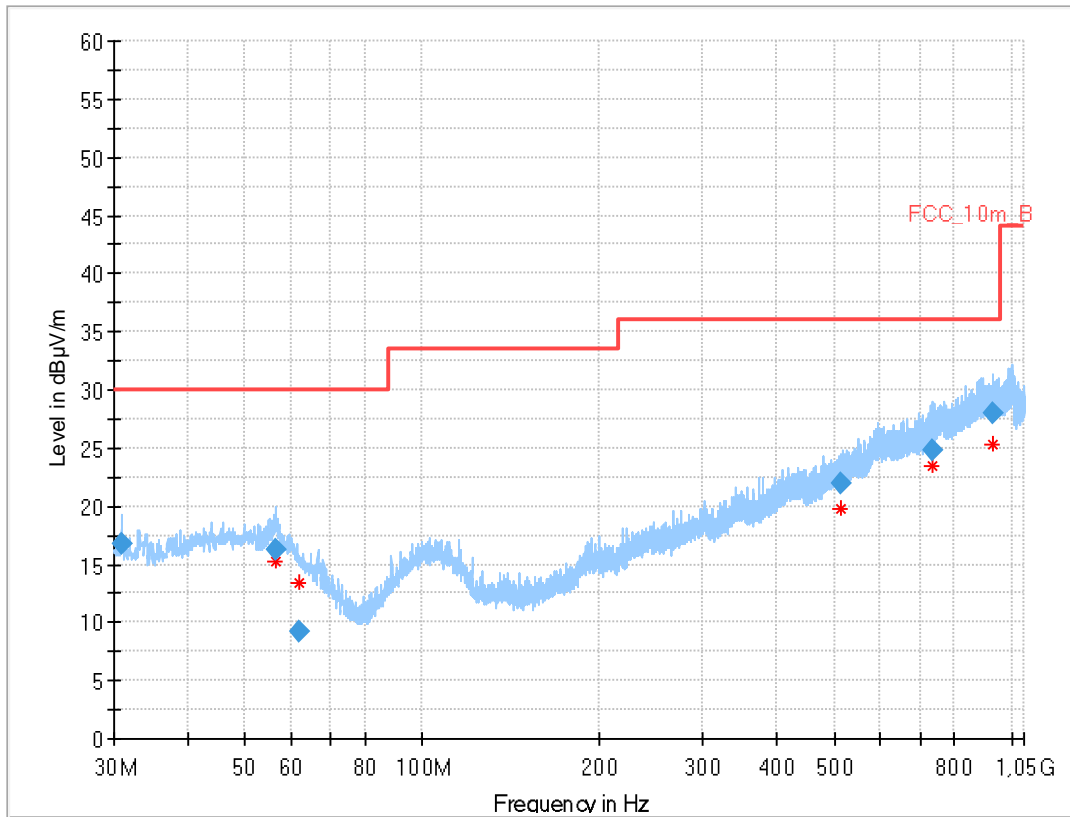
Plot 23: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-2A; middle channel



Results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
33.614	16.62	30.0	13.4	1000	120.0	118.0	V	172	12
51.697	15.36	30.0	14.6	1000	120.0	170.0	H	6	14
61.134	13.89	30.0	16.1	1000	120.0	163.0	V	67	13
504.267	16.74	36.0	19.3	1000	120.0	170.0	H	247	18
734.956	19.79	36.0	16.2	1000	120.0	170.0	V	22	22
905.931	22.87	36.0	13.1	1000	120.0	105.0	V	292	24

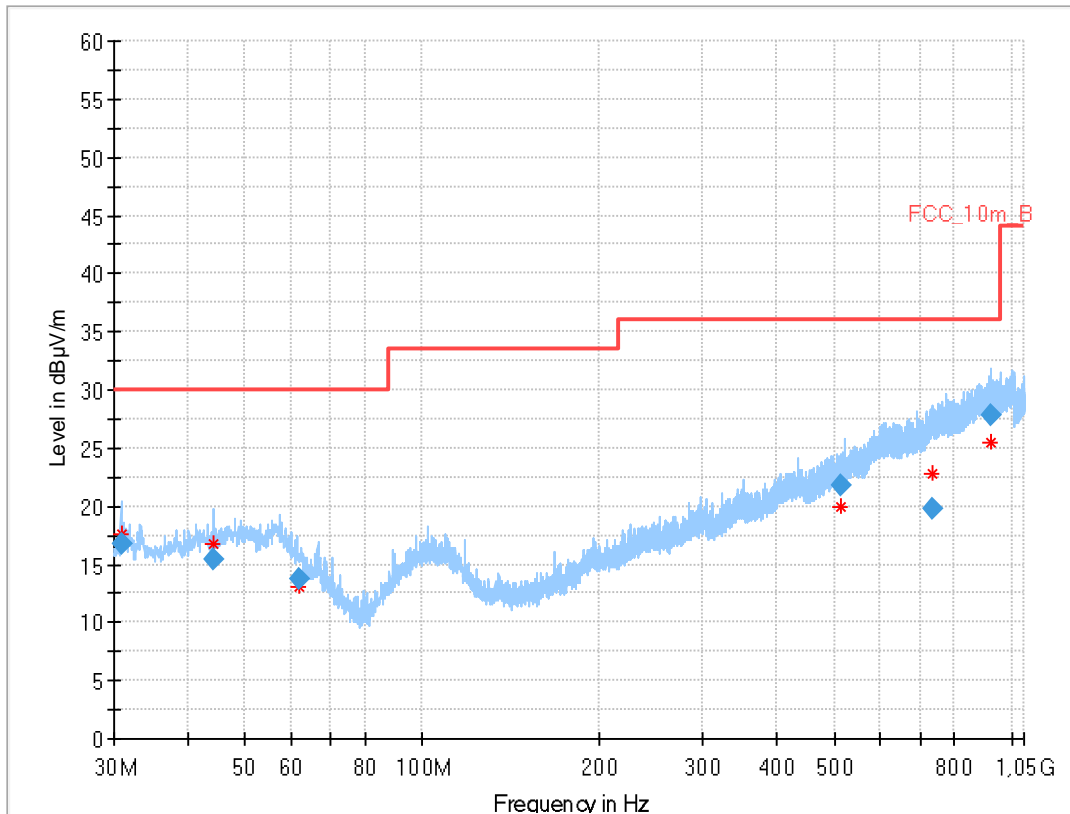
Plot 24: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



Results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.932	16.73	30.0	13.3	1000	120.0	105.0	V	157	12
56.398	16.21	30.0	13.8	1000	120.0	170.0	H	71	15
62.004	9.19	30.0	20.8	1000	120.0	170.0	H	157	12
514.434	21.92	36.0	14.1	1000	120.0	111.0	V	67	19
733.197	24.81	36.0	11.2	1000	120.0	170.0	H	-20	22
930.756	28.03	36.0	8.0	1000	120.0	170.0	V	247	24

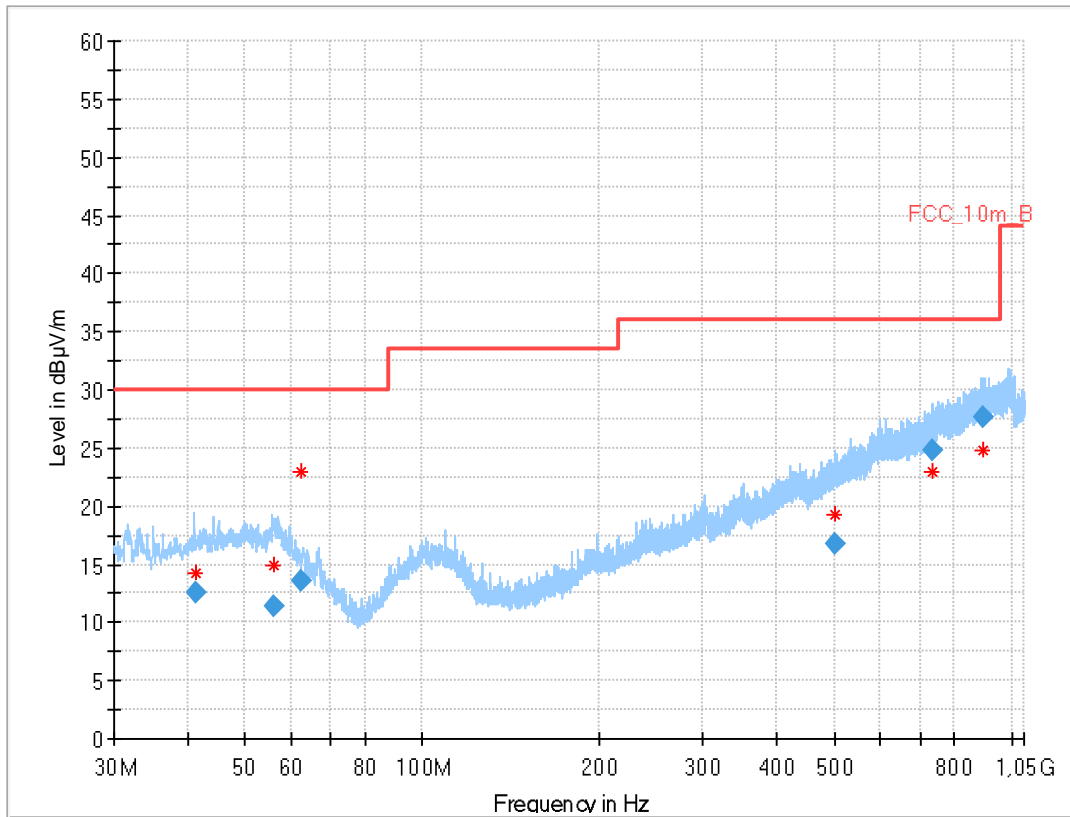
Plot 25: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-2C; highest channel



Results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.915	16.74	30.0	13.3	1000	120.0	117.0	H	174	12
44.236	15.34	30.0	14.7	1000	120.0	102.0	V	247	14
61.953	13.69	30.0	16.3	1000	120.0	170.0	H	247	12
514.036	21.87	36.0	14.1	1000	120.0	170.0	H	157	19
733.820	19.82	36.0	16.2	1000	120.0	157.0	H	157	22
923.994	27.74	36.0	8.3	1000	120.0	147.0	V	157	24

Plot 26: 30 MHz to 1 GHz; vertical & horizontal polarization; U-NII-3; middle channel



Results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
41.418	12.55	30.0	17.5	1000	120.0	170.0	V	-22	14
55.944	11.38	30.0	18.6	1000	120.0	160.0	V	271	15
62.130	13.59	30.0	16.4	1000	120.0	129.0	V	-22	12
503.154	16.75	36.0	19.3	1000	120.0	170.0	H	-21	18
735.080	24.75	36.0	11.3	1000	120.0	170.0	H	-22	22
896.698	27.64	36.0	8.4	1000	120.0	170.0	H	-22	24

12.12 Spurious emissions radiated 1 GHz to 40 GHz

Description:

Measurement of the radiated spurious emissions and cabinet radiations from 1 GHz to 40 GHz.

Measurement:

Measurement parameter	
Detector:	Quasi Peak below 1 GHz (alternative Peak) Peak above 1 GHz / RMS
Sweep time:	Auto
Resolution bandwidth:	1 MHz
Video bandwidth:	3 MHz
Span:	1 GHz to 40 GHz
Trace mode:	Max Hold / Average with 100 counts + 20 log (1 / X) for duty cycle lower than 100 %
Test setup:	See sub clause 7.1 – A
Measurement uncertainty:	See chapter 9

Limits:

TX Spurious Emissions Radiated		
§15.209		
Frequency (MHz)	Field Strength (dBµV/m)	Measurement distance
Above 960	54.0	3
§15.407		
Outside the restricted bands!	-27 dBm / MHz	

Results: 20 MHz channel bandwidth (TAOGLAS FXP831.07.0100C)

TX Spurious Emissions Radiated [dBµV/m] / dBm								
U-NII-1 (5150 MHz to 5250 MHz)								
Lowest channel			Middle channel			Highest channel		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
-/-	Peak	-/-	-/-			15723.3	Peak	61.9
	AVG	-/-					AVG	50.5
For emissions above 18 GHz please take look at the plots.						For emissions above 18 GHz please take look at the plots.		

TX Spurious Emissions Radiated [dBµV/m] / dBm								
U-NII-2A (5250 MHz to 5350 MHz)								
Lowest channel			Middle channel			Highest channel		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
15779	Peak	49.1	-/-			15962.8	Peak	63.9
	AVG	36.6					AVG	52.1
For emissions above 18 GHz please take look at the plots.						For emissions above 18 GHz please take look at the plots.		

TX Spurious Emissions Radiated [dBµV/m] / dBm								
U-NII-2C (5470 MHz to 5725 MHz)								
Lowest channel			Middle channel			Highest channel		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
7333.3	Peak	54.0	7466.4	Peak	55.0	7599.5	Peak	54.7
	AVG	48.5		AVG	48.5		AVG	48.4
10995.2	Peak	54.4	11200.9	Peak	63.6	11400	Peak	65.0
	AVG	42.7		AVG	50.9		AVG	52.4
For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.		

TX Spurious Emissions Radiated [dBµV/m] / dBm								
U-NII-3 (5725 MHz to 5850 MHz)								
Lowest channel			Middle channel			Highest channel		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
11488.5	Peak	63.2	11577.5	Peak	55.9	11650.0	Peak	60.5
	AVG	51.9		AVG	43.7		AVG	48.3
For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.		

Results: 40 MHz channel bandwidth (TAOGLAS FXP831.07.0100C)

TX Spurious Emissions Radiated [dBµV/m] / dBm								
U-NII-1 (5150 MHz to 5250 MHz)								
Lowest channel			Middle channel			Highest channel		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
-/-	Peak	-/-	-/-			-/-	Peak	-/-
	AVG	-/-					AVG	-/-
For emissions above 18 GHz please take look at the plots.						For emissions above 18 GHz please take look at the plots.		

TX Spurious Emissions Radiated [dBµV/m] / dBm								
U-NII-2A (5250 MHz to 5350 MHz)								
Lowest channel			Middle channel			Highest channel		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
-/-	Peak	-/-	-/-			-/-	Peak	-/-
	AVG	-/-					AVG	-/-
For emissions above 18 GHz please take look at the plots.						For emissions above 18 GHz please take look at the plots.		

TX Spurious Emissions Radiated [dBµV/m] / dBm								
U-NII-2C (5470 MHz to 5725 MHz)								
Lowest channel			Middle channel			Highest channel		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
7346.7	Peak	52.3	7453.3	Peak	53.6	7560	Peak	56.1
	AVG	46.8		AVG	48.2		AVG	49.5
11020	Peak	53.4	-/-	Peak	-/-	-/-	Peak	-/-
	AVG	42.1		AVG	-/-		AVG	-/-
For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.		

TX Spurious Emissions Radiated [dBµV/m] / dBm								
U-NII-3 (5725 MHz to 5850 MHz)								
Lowest channel			Middle channel			Highest channel		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
7673.3	Peak	53.7	-/-			7726.5	Peak	53.3
	AVG	48.3					AVG	48.6
For emissions above 18 GHz please take look at the plots.						For emissions above 18 GHz please take look at the plots.		

Results: 80 MHz channel bandwidth (TAOGLAS FXP831.07.0100C)

TX Spurious Emissions Radiated [dBµV/m] / dBm		
U-NII-1 (5150 MHz to 5250 MHz)		
Middle channel		
F [MHz]	Detector	Level [dBµV/m]
-/-	Peak	-/-
	AVG	-/-
For emissions above 18 GHz please take look at the plots.		

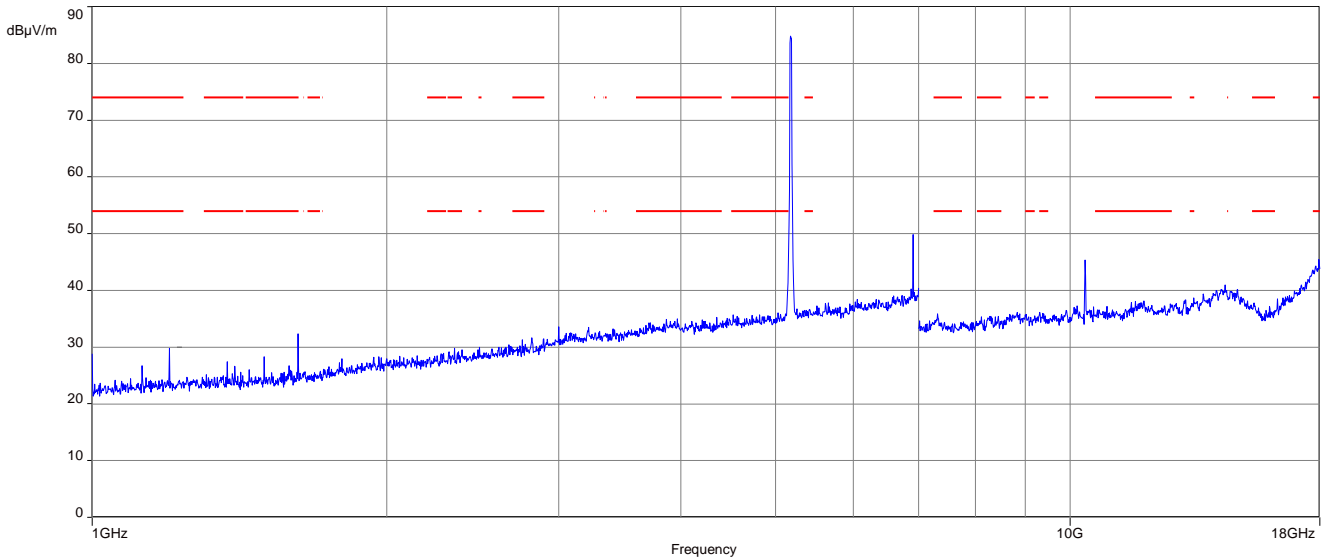
TX Spurious Emissions Radiated [dBµV/m] / dBm		
U-NII-2A (5250 MHz to 5350 MHz)		
Middle channel		
F [MHz]	Detector	Level [dBµV/m]
-/-	Peak	-/-
	AVG	-/-
For emissions above 18 GHz please take look at the plots.		

TX Spurious Emissions Radiated [dBµV/m] / dBm					
U-NII-2C (5470 MHz to 5725 MHz)					
Lowest channel			Highest channel		
7373.3	Peak	54.1	7480	Peak	55.4
	AVG	50.3		AVG	50.6
For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.		

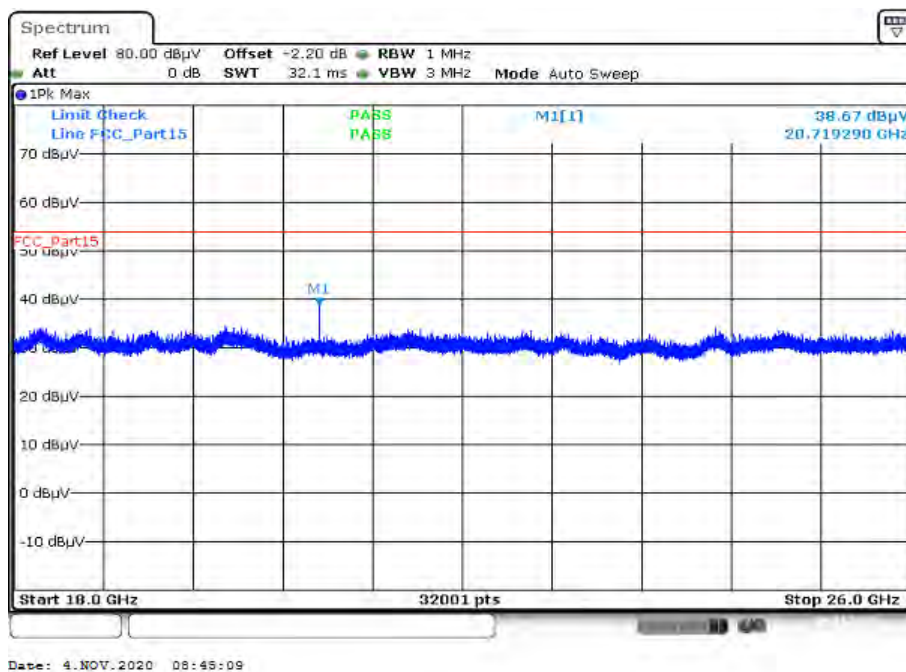
TX Spurious Emissions Radiated [dBµV/m] / dBm		
U-NII-3 (5725 MHz to 5850 MHz)		
Middle channel		
F [MHz]	Detector	Level [dBµV/m]
7699.8	Peak	54.0
	AVG	50.6
For emissions above 18 GHz please take look at the plots.		

Plots: 20 MHz channel bandwidth (TAOGLAS FXP831.07.0100C)

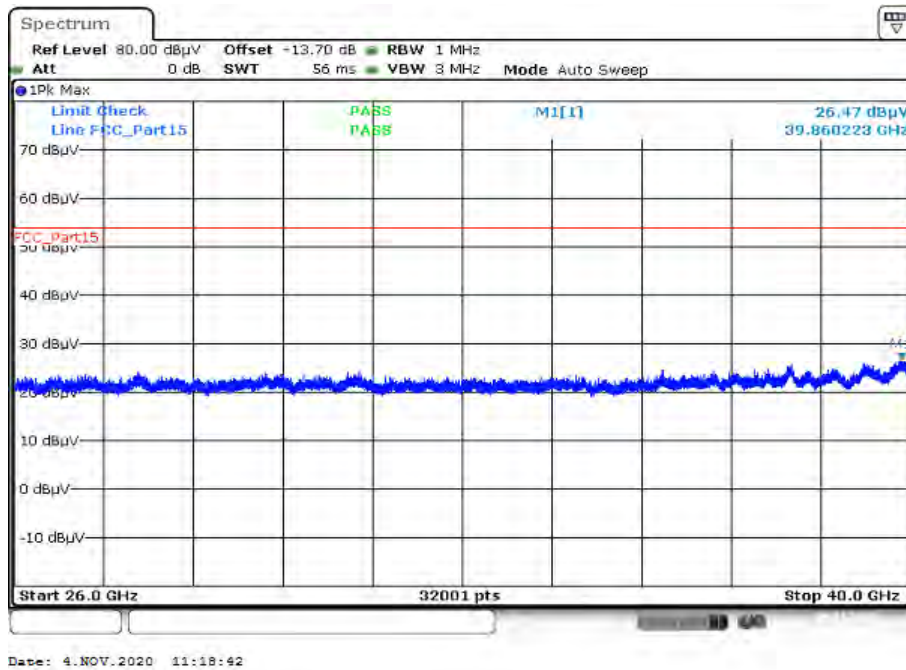
Plot 1: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-1; lowest channel



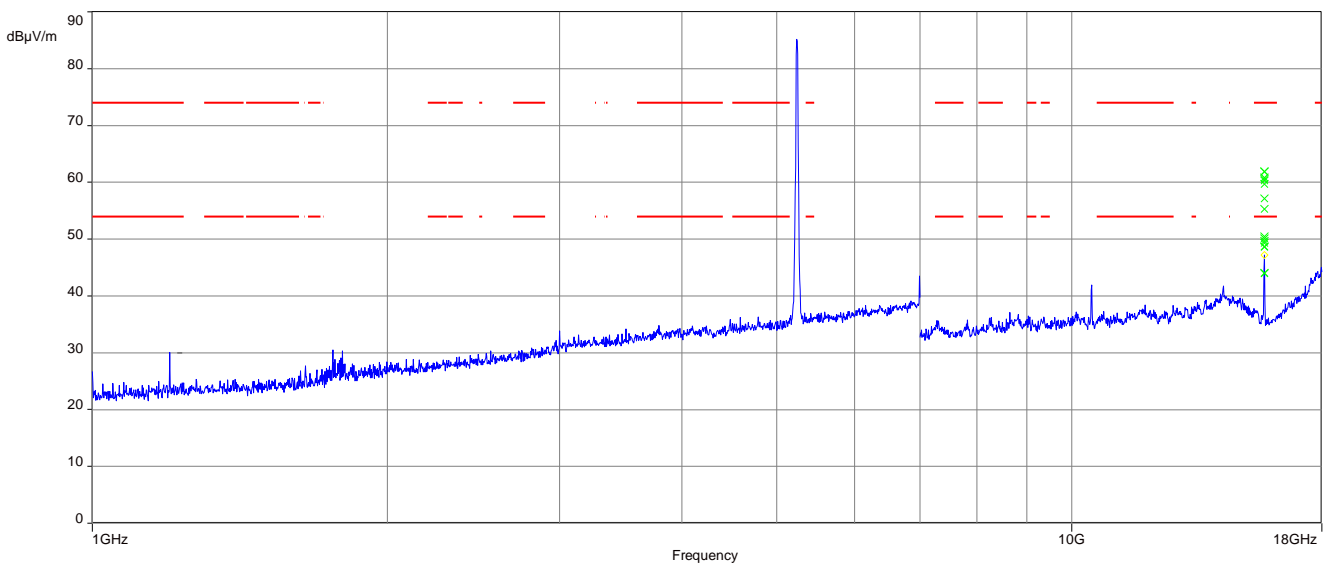
Plot 2: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-1; lowest channel



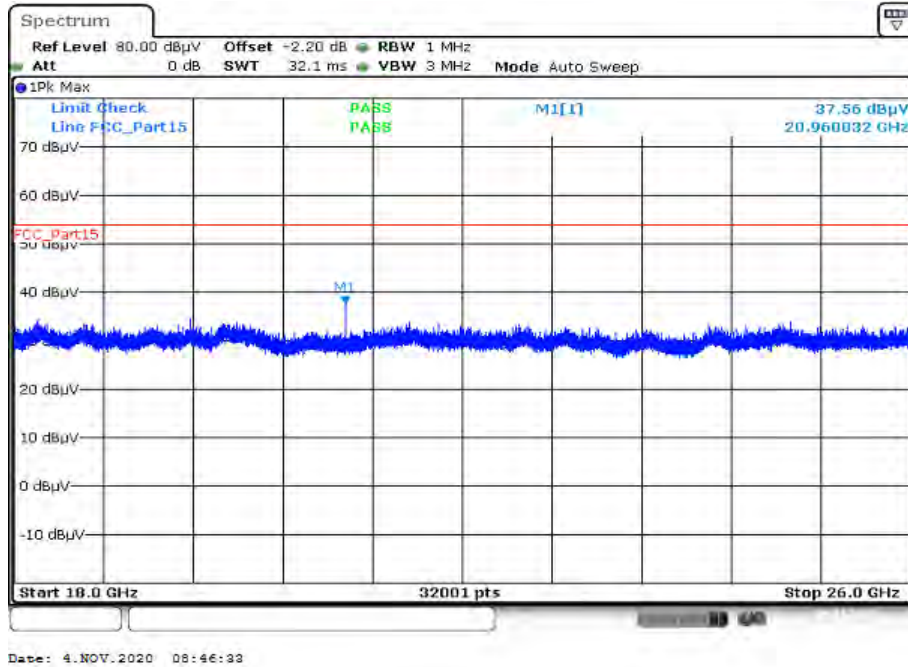
Plot 3: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-1; lowest channel



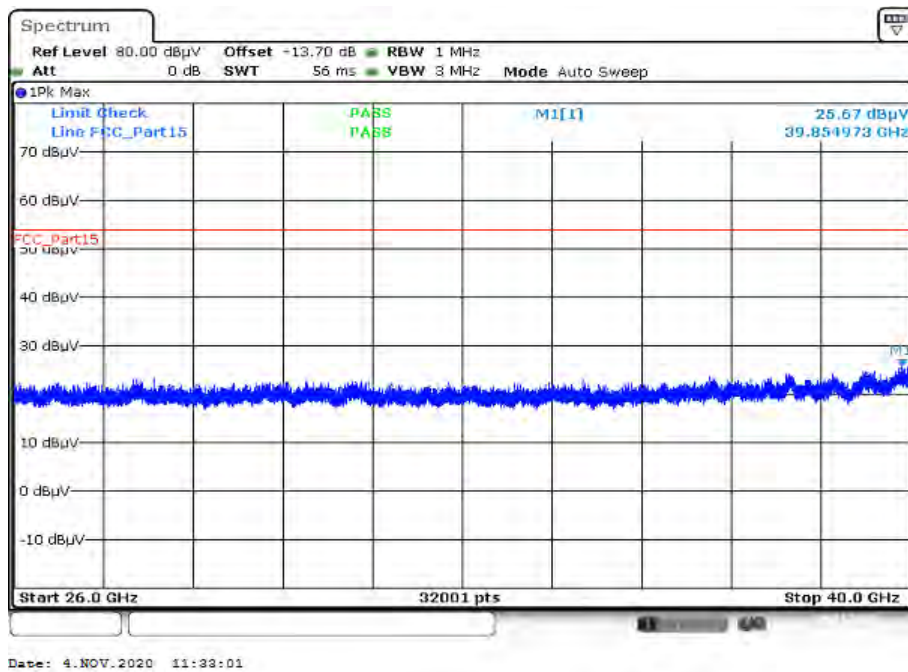
Plot 4: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-1; highest channel



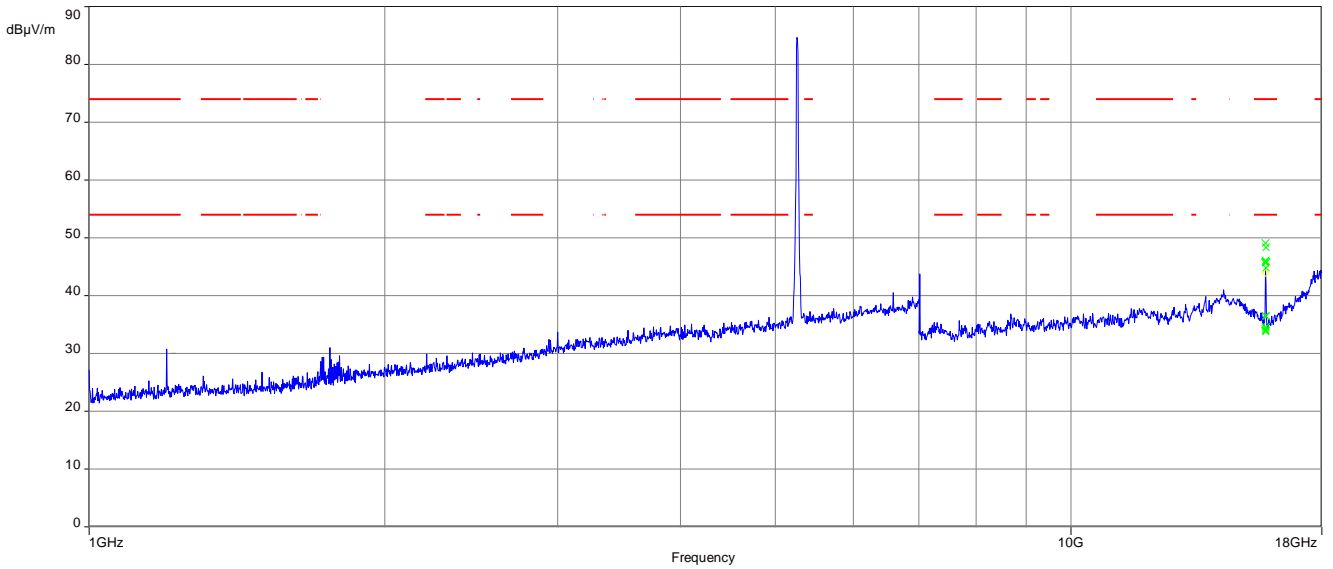
Plot 5: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-1; highest channel



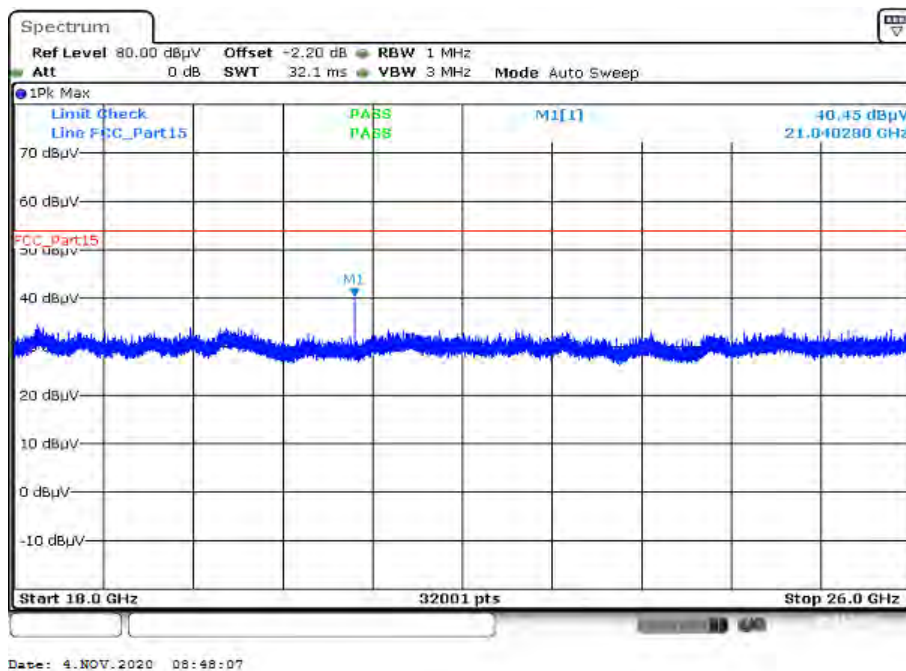
Plot 6: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-1; highest channel



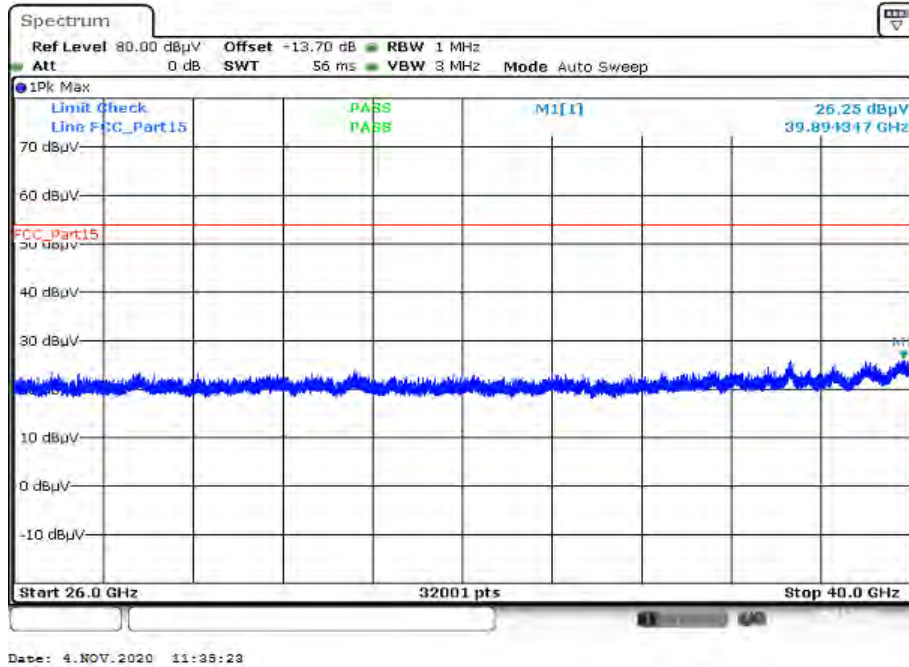
Plot 7: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2A; lowest channel



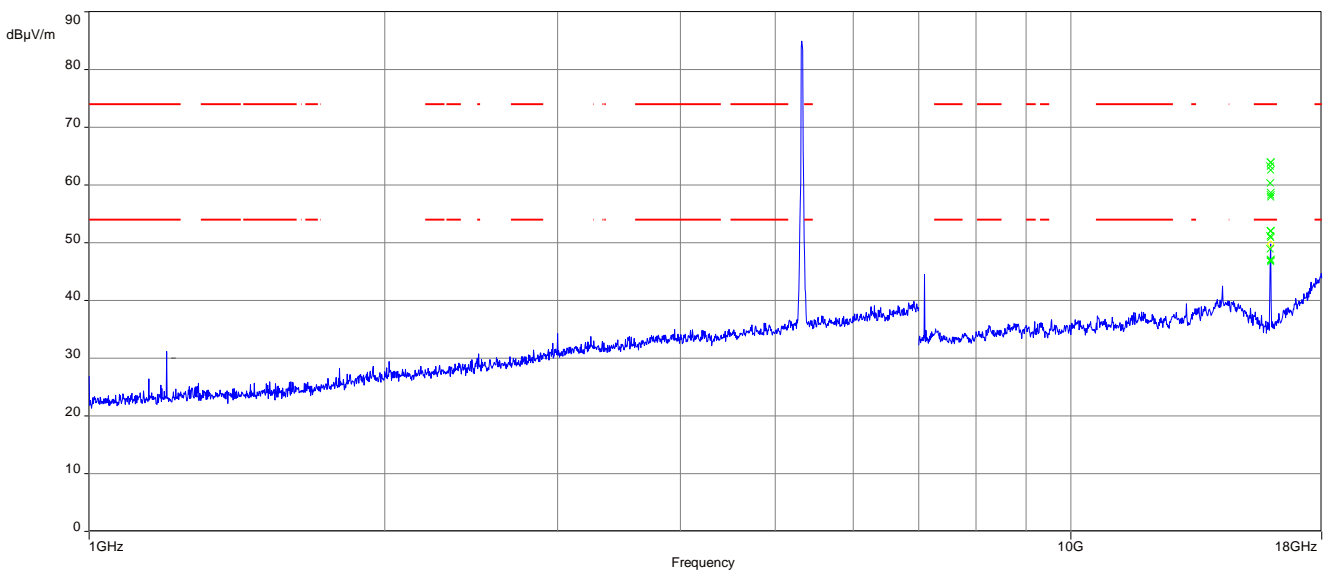
Plot 8: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2A; lowest channel



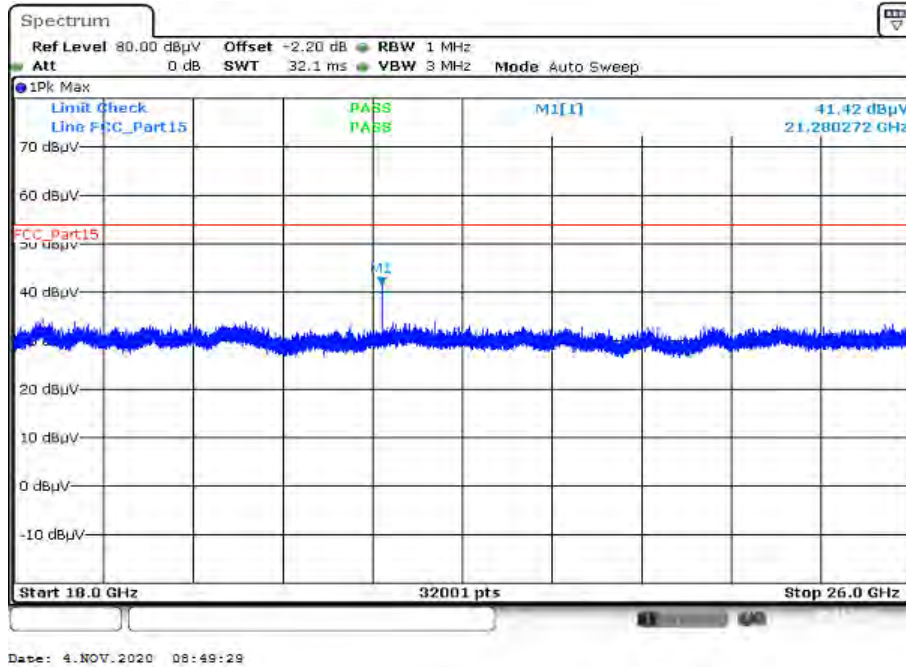
Plot 9: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2A; lowest channel



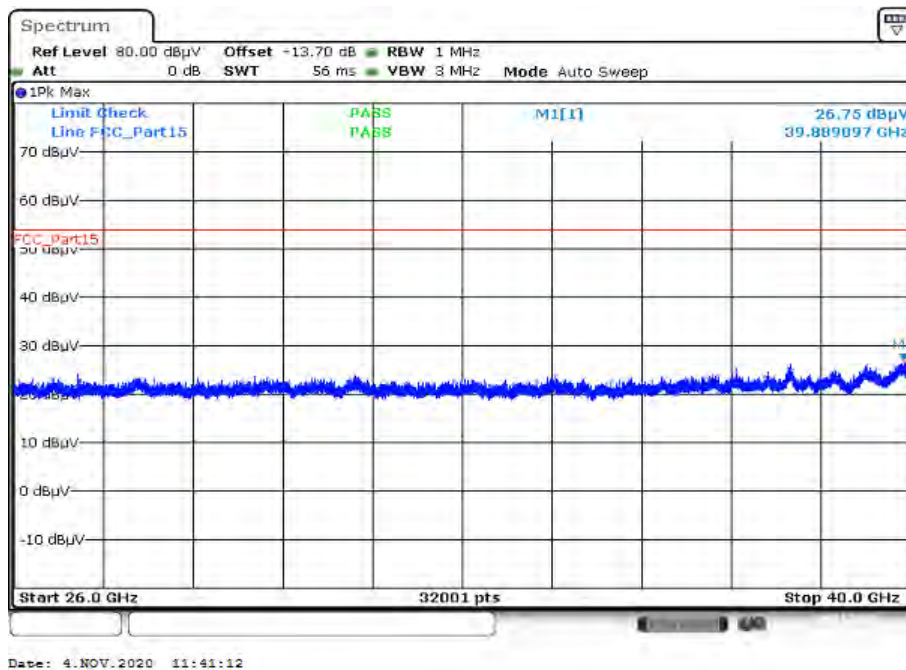
Plot 10: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2A; highest channel



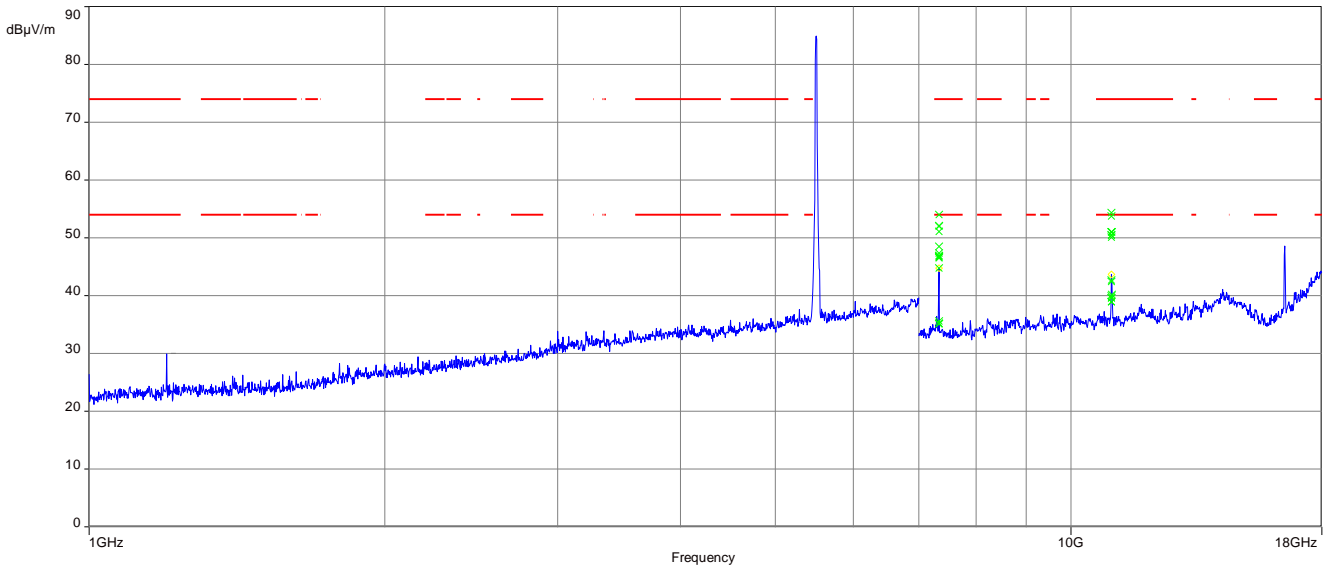
Plot 11: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2A; highest channel



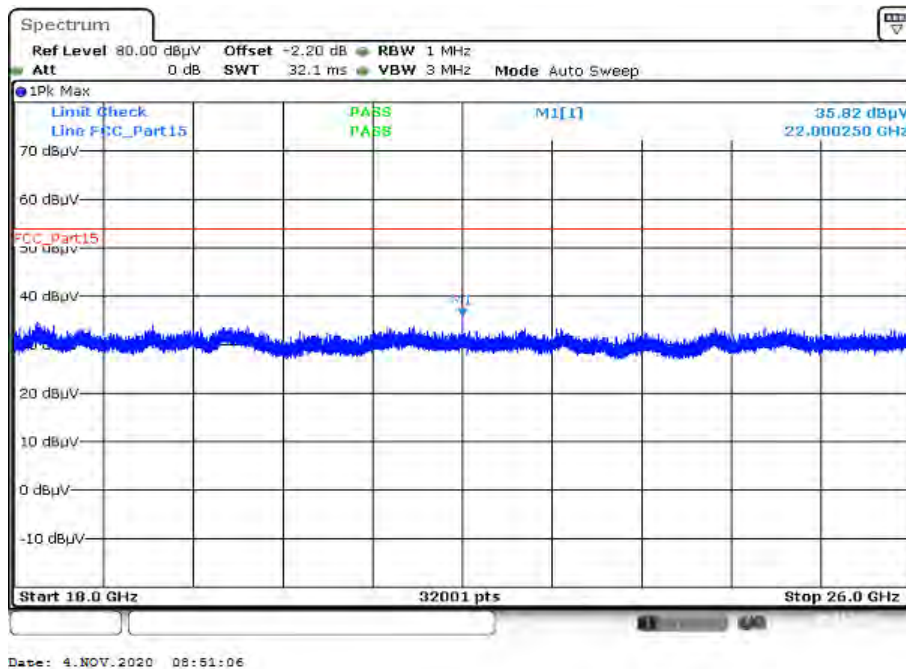
Plot 12: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2A; highest channel



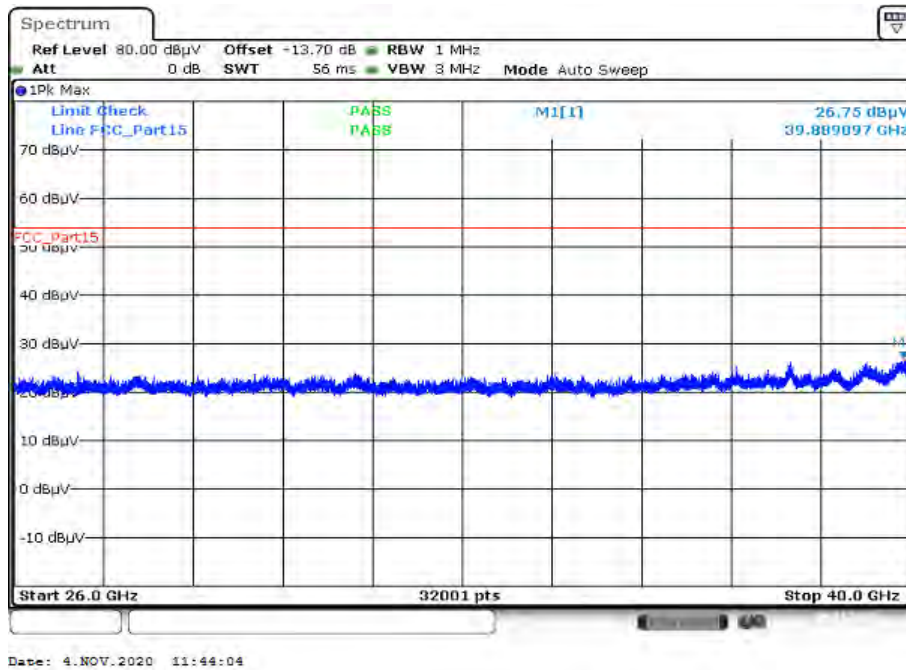
Plot 13: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



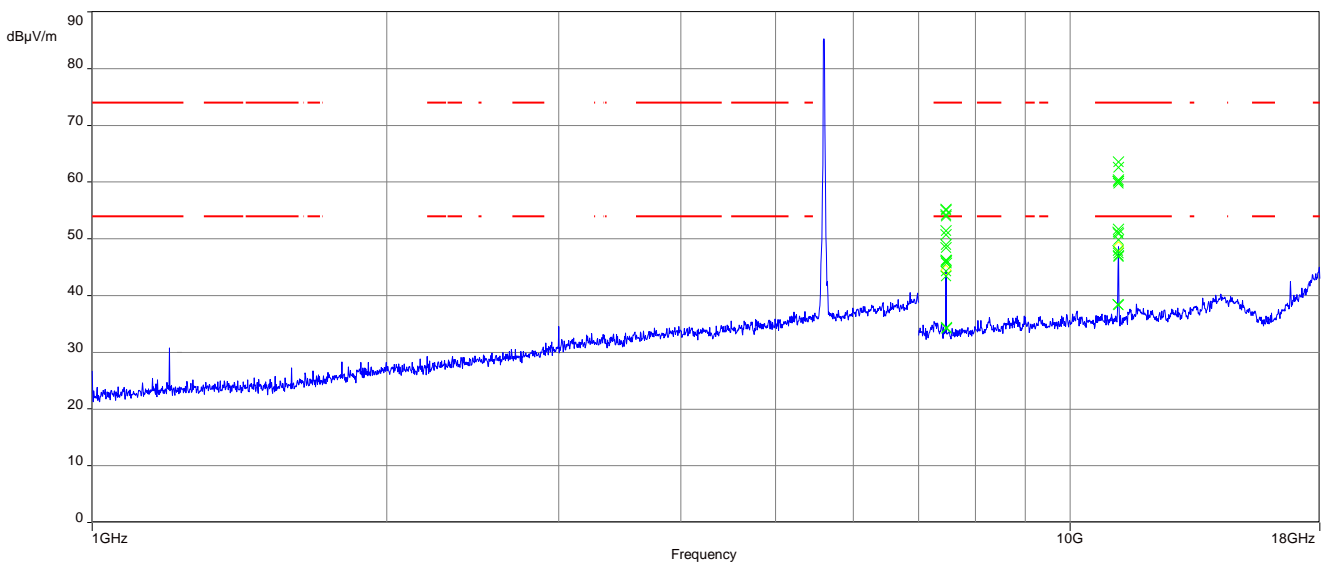
Plot 14: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



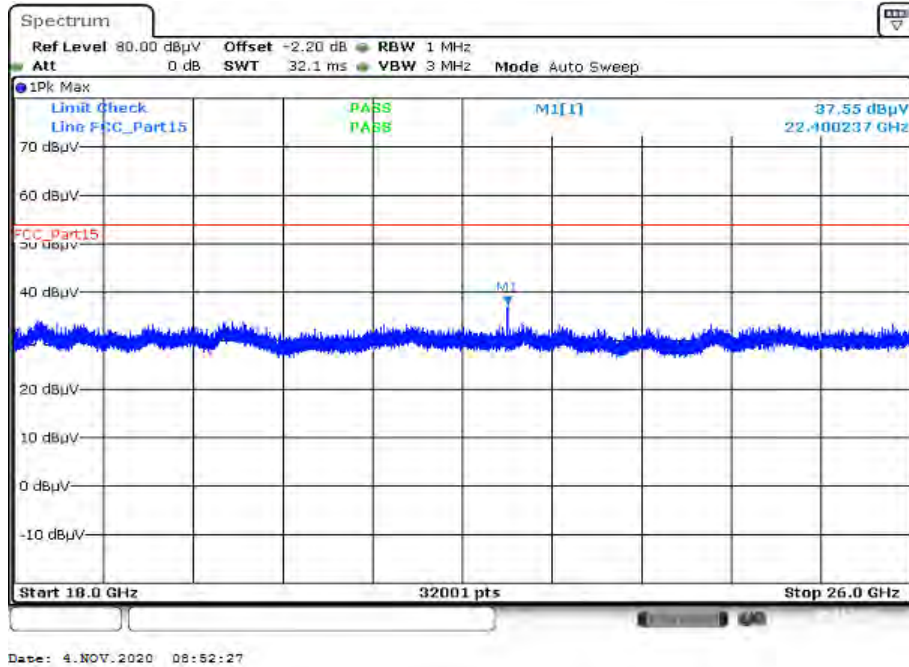
Plot 15: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



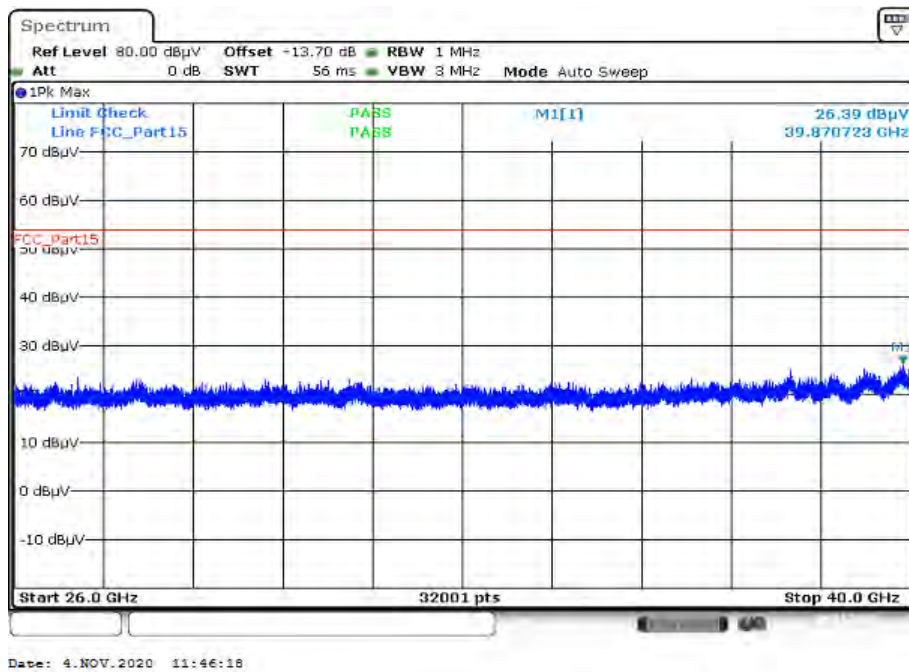
Plot 16: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2C; middle channel



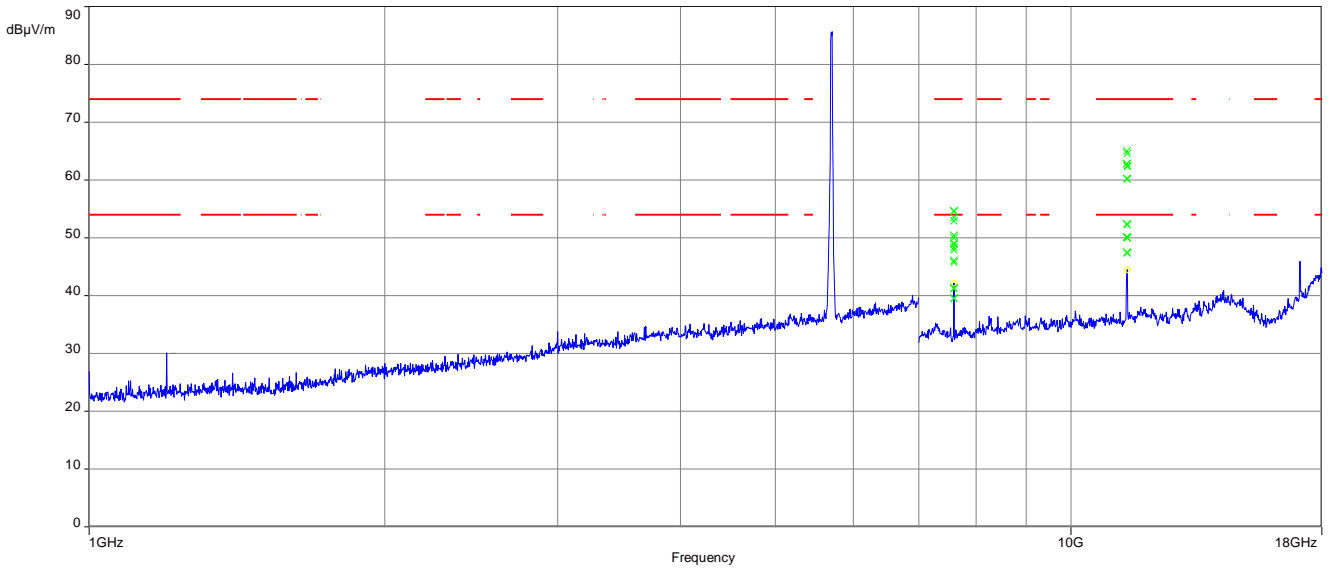
Plot 17: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2C; middle channel



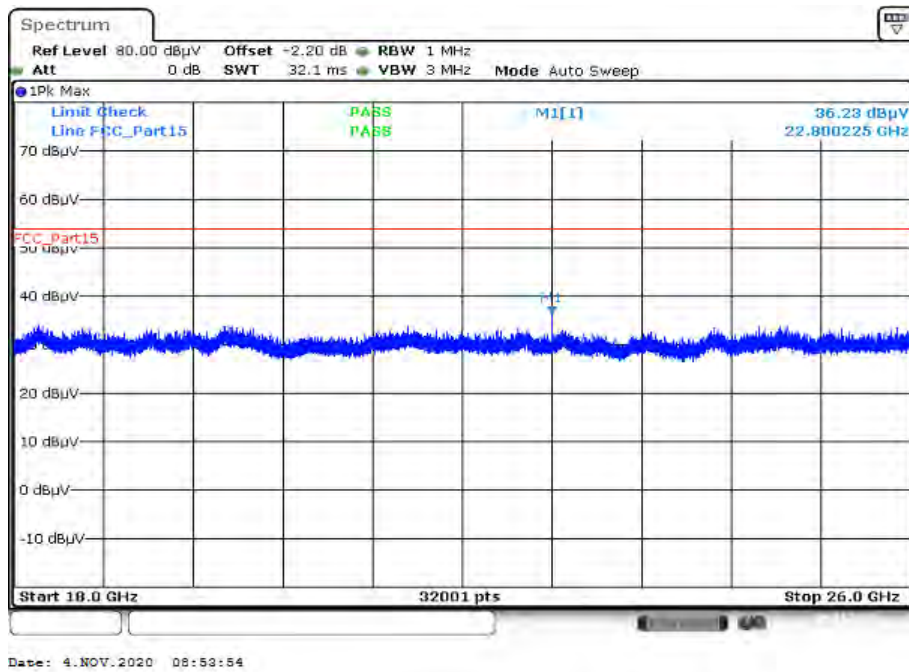
Plot 18: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2C; middle channel



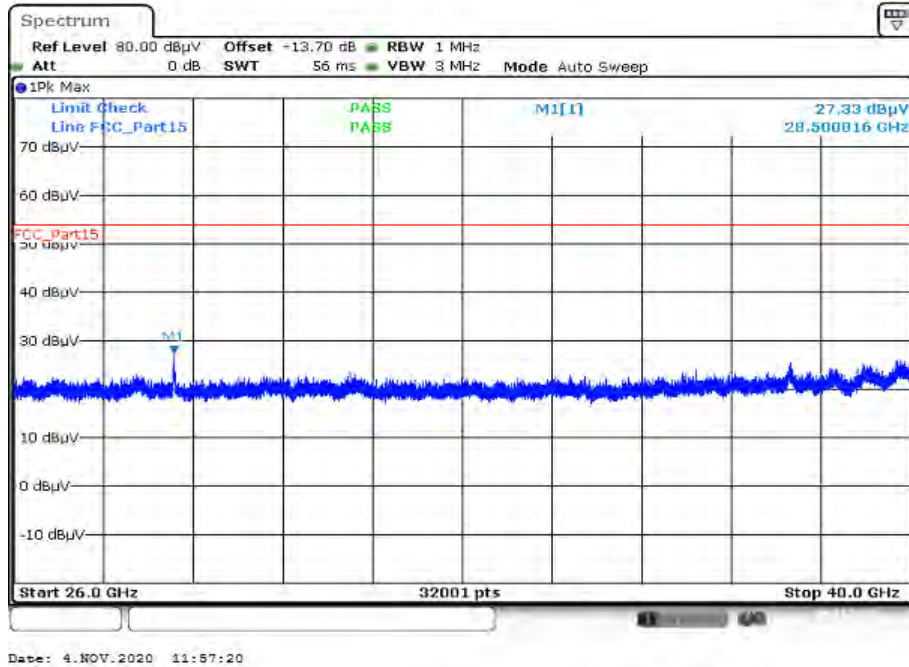
Plot 19: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2C; highest channel



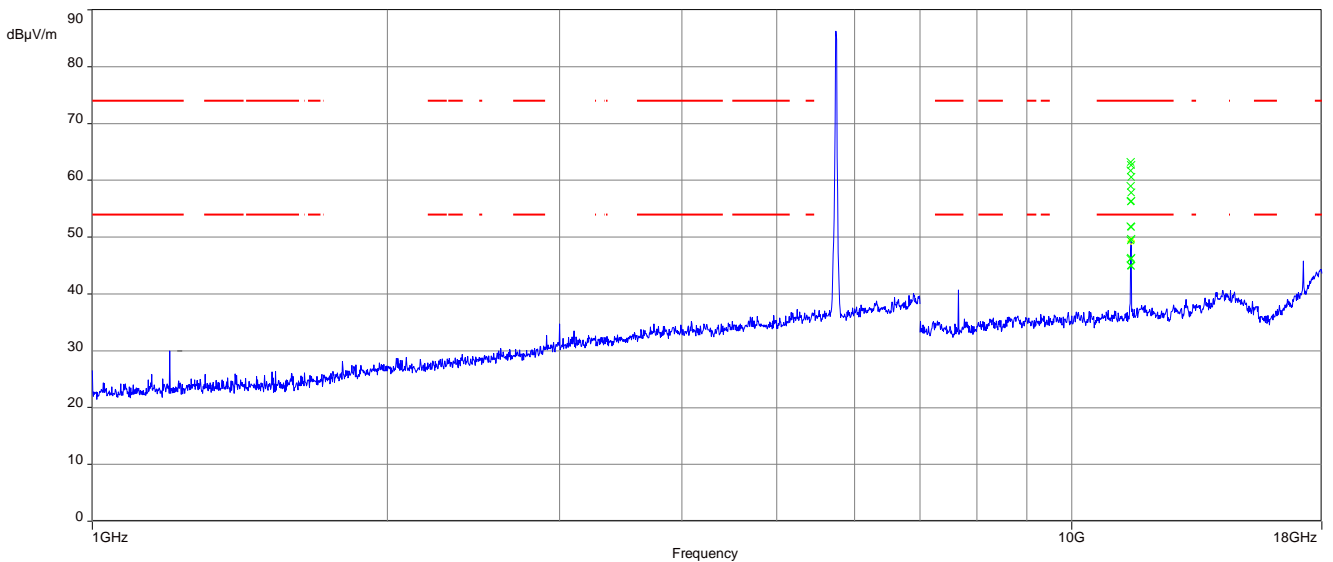
Plot 20: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2C; highest channel



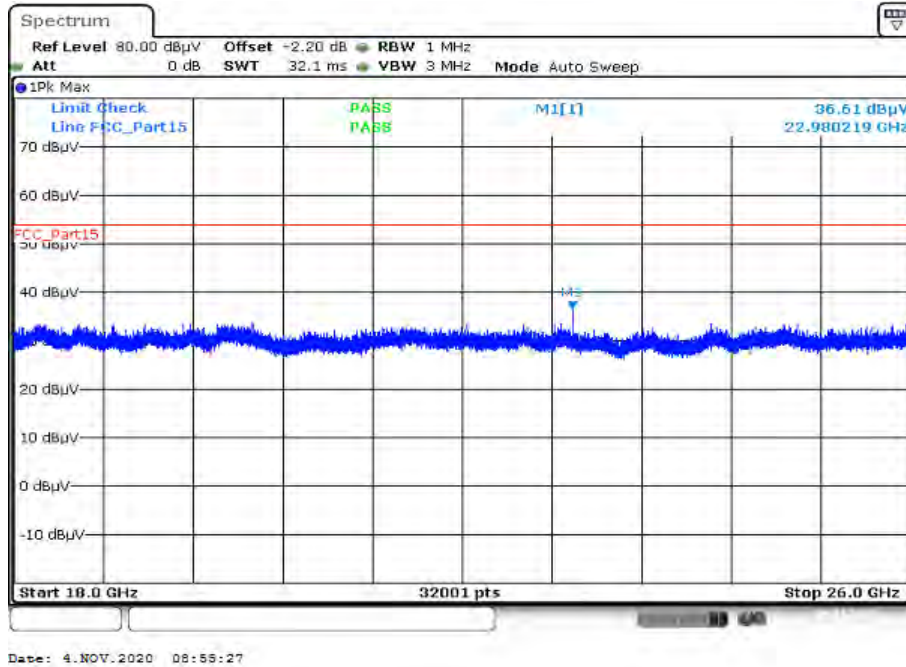
Plot 21: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2C; highest channel



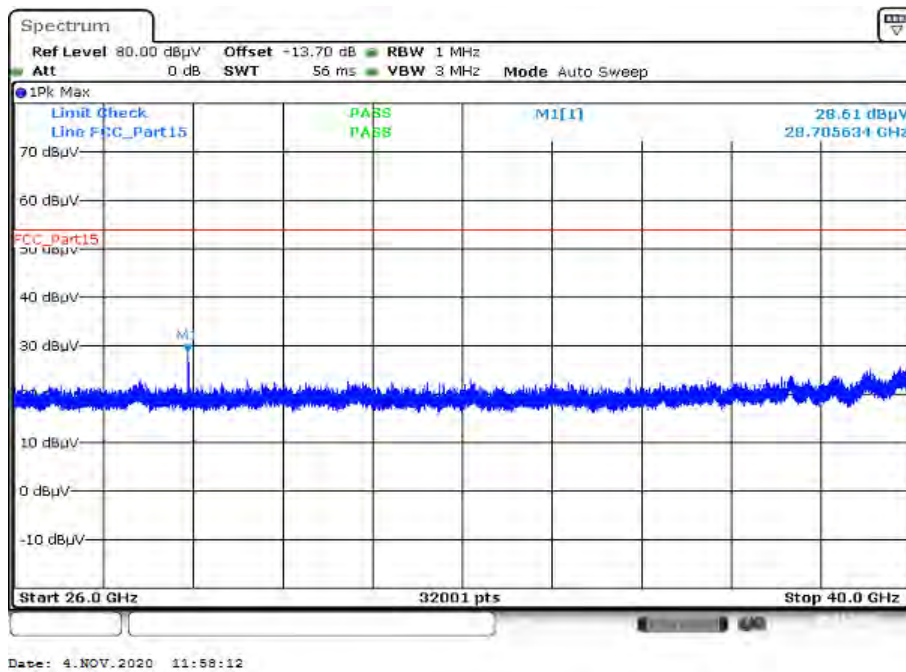
Plot 22: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-3; lowest channel



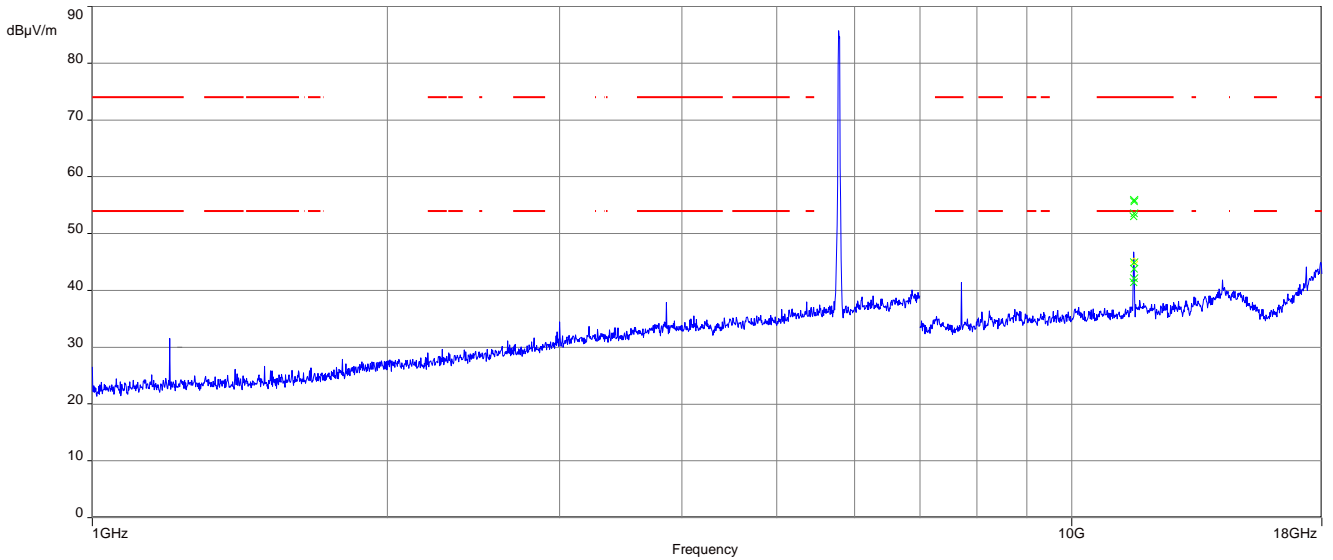
Plot 23: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-3; lowest channel



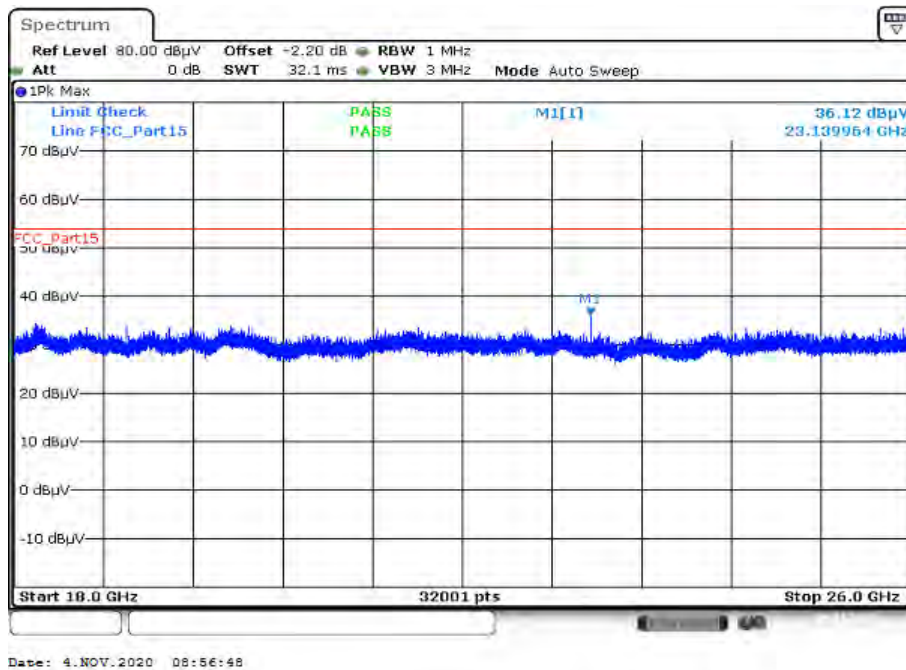
Plot 24: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-3; lowest channel



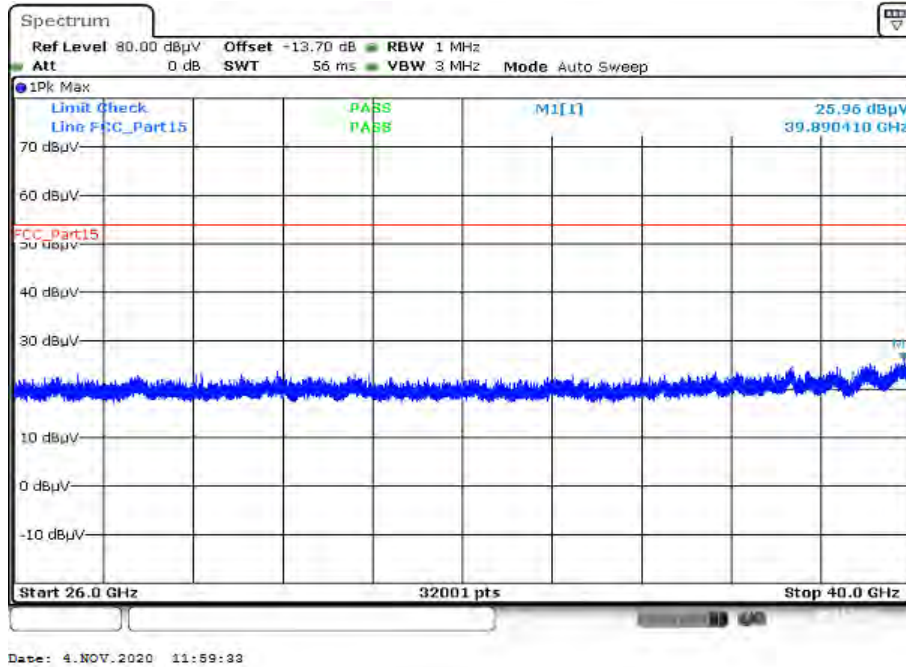
Plot 25: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-3; middle channel



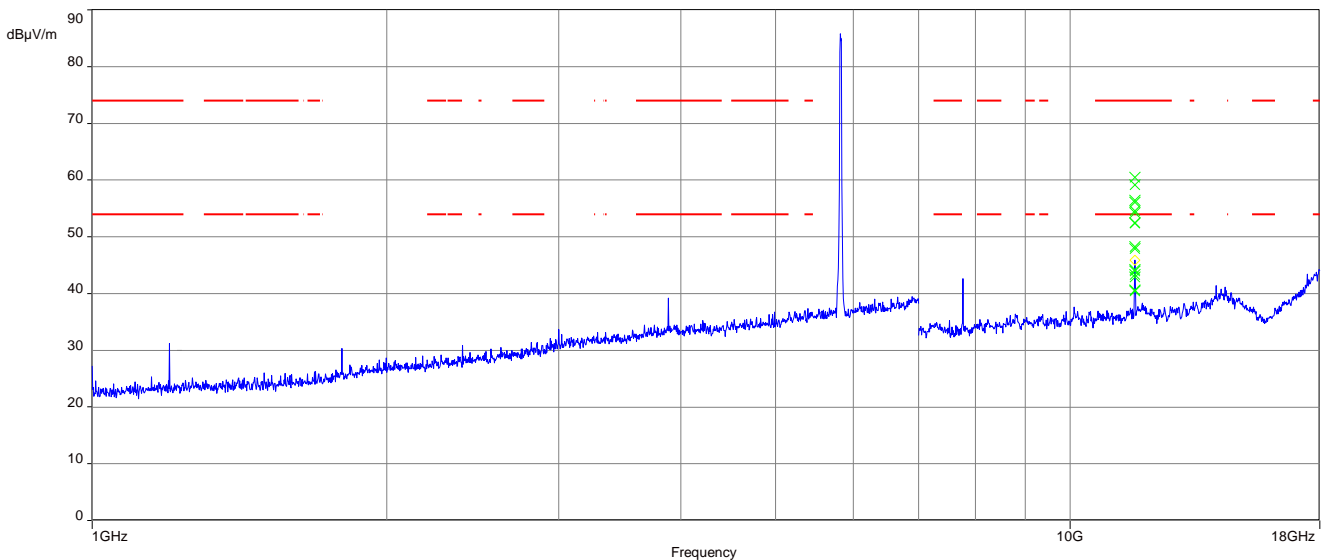
Plot 26: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-3; middle channel



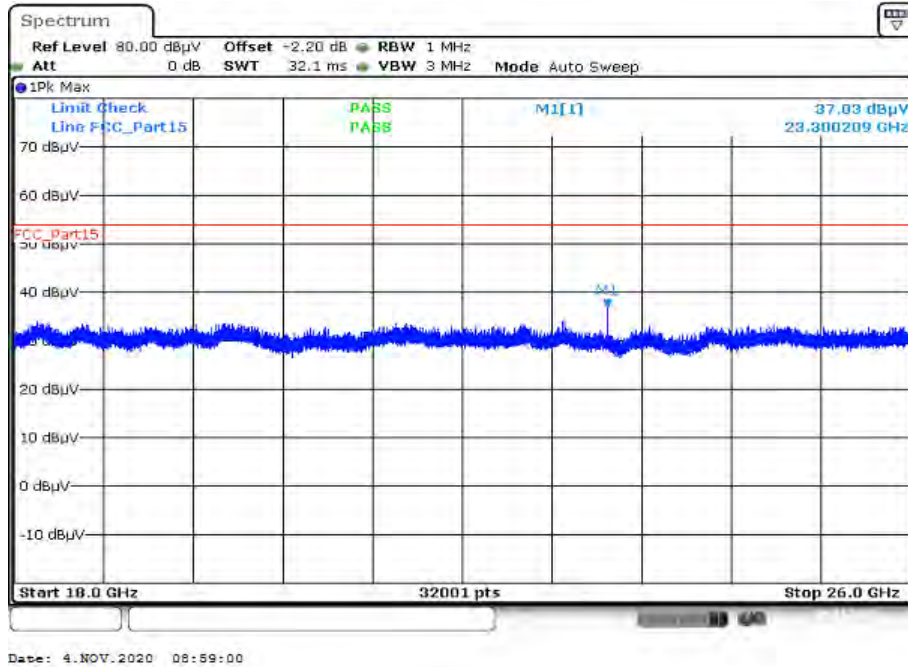
Plot 27: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-3; middle channel



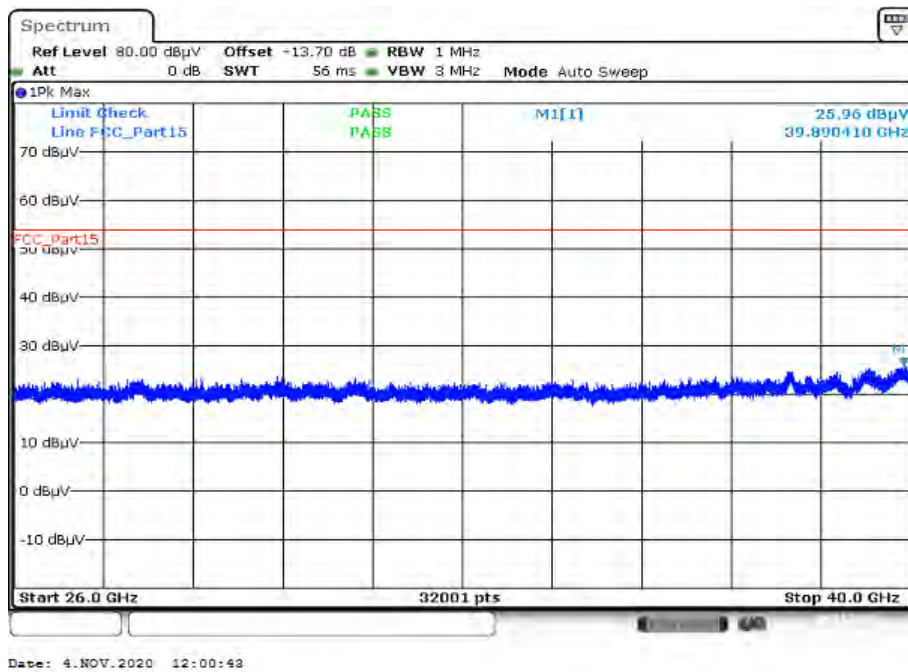
Plot 28: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-3; highest channel



Plot 29: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-3; highest channel

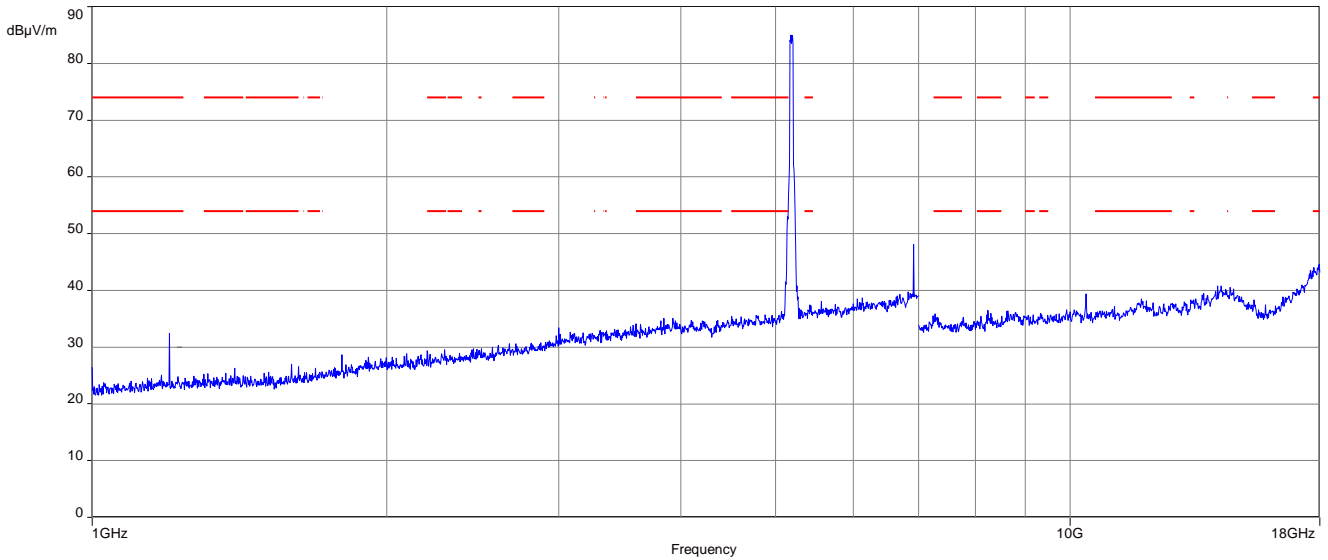


Plot 30: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-3; highest channel

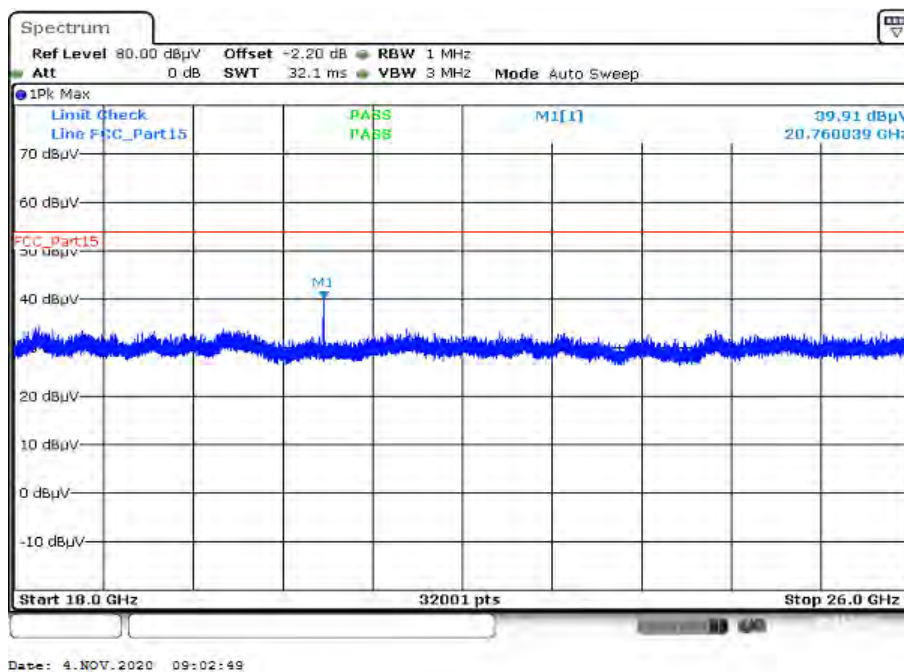


Plots: 40 MHz channel bandwidth (TAOGLAS FXP831.07.0100C)

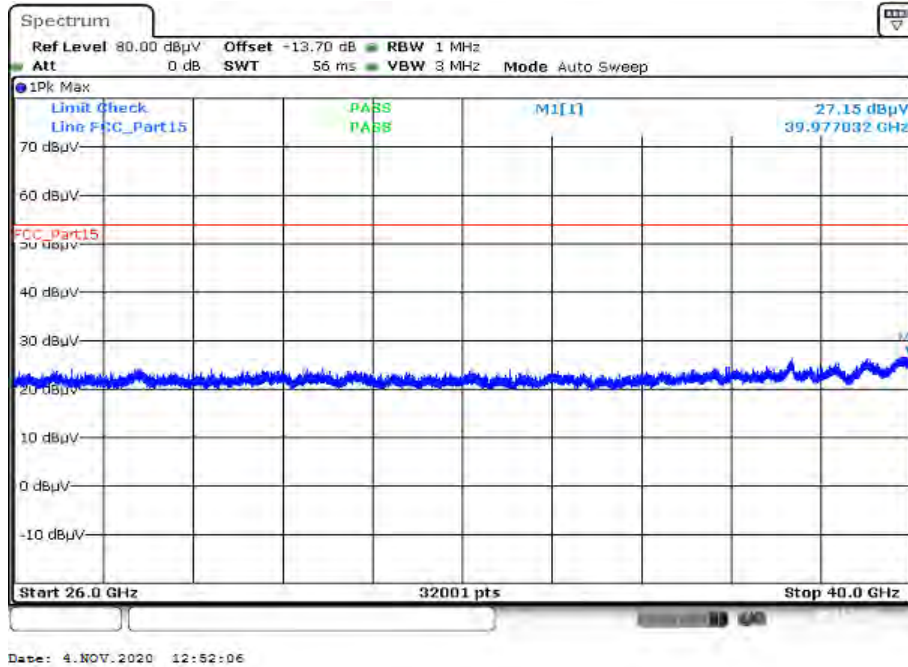
Plot 1: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-1; lowest channel



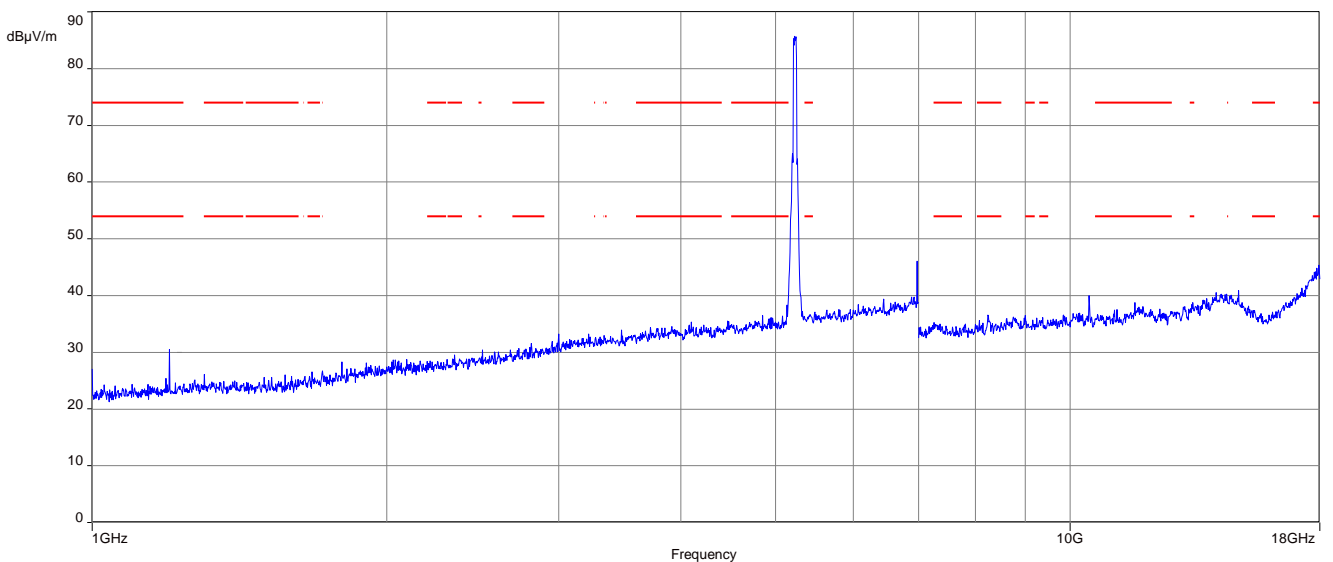
Plot 2: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-1; lowest channel



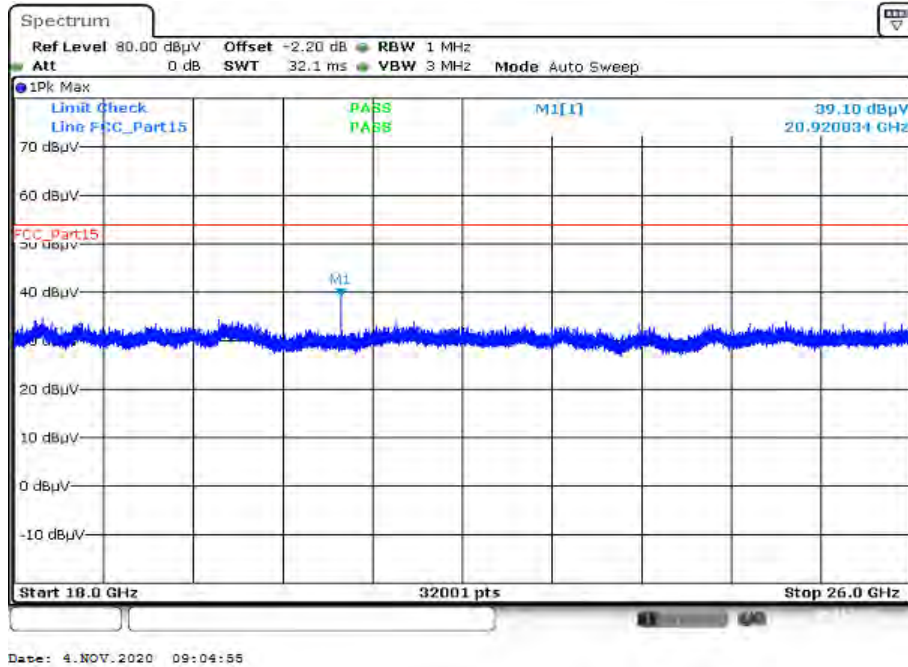
Plot 3: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-1; lowest channel



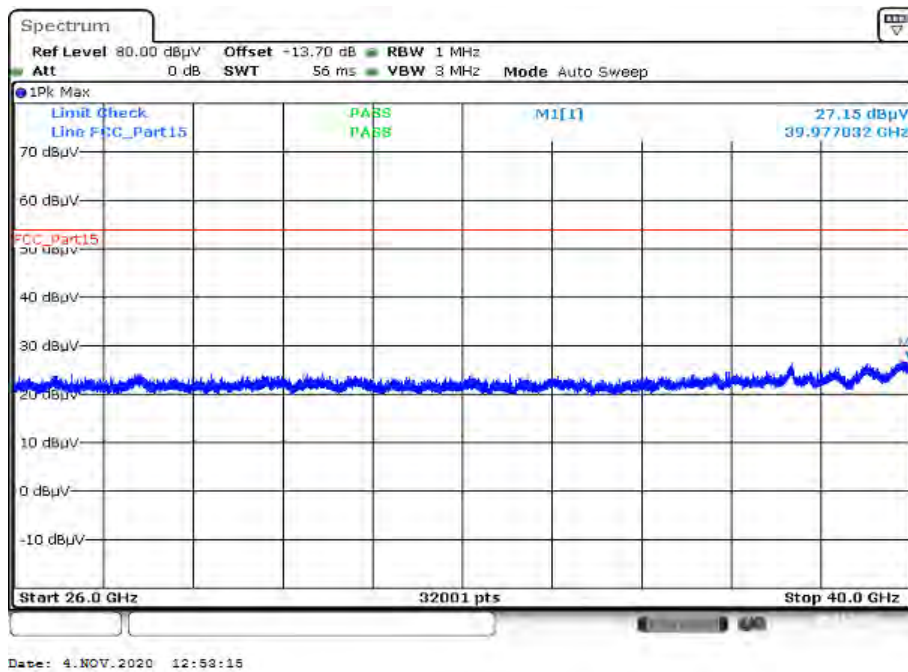
Plot 4: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-1; highest channel



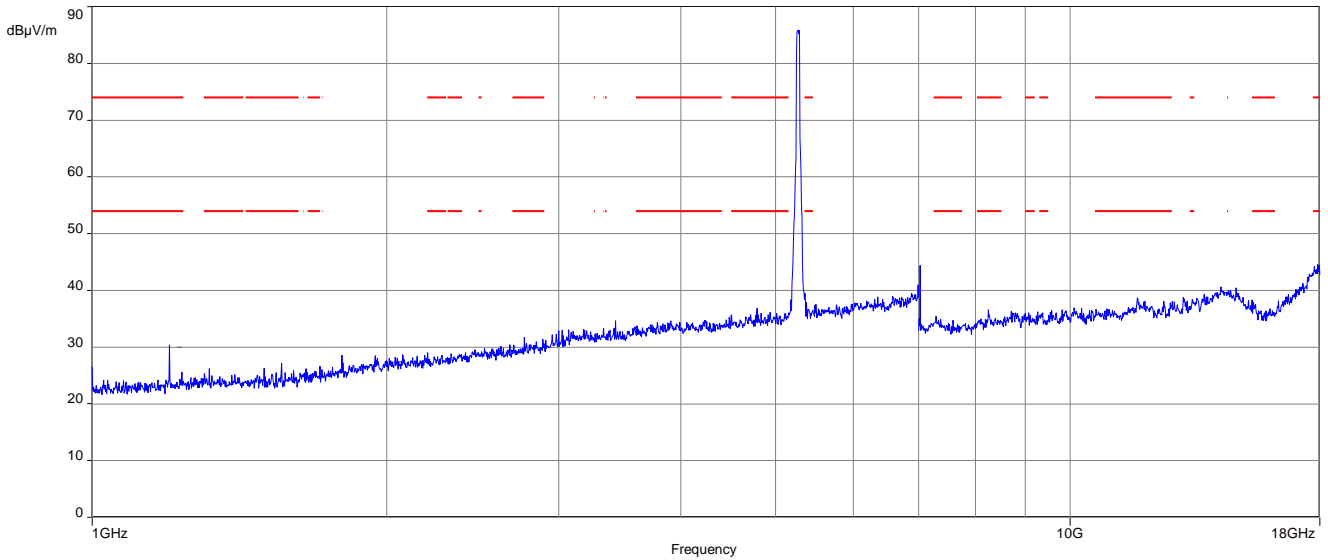
Plot 5: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-1; highest channel



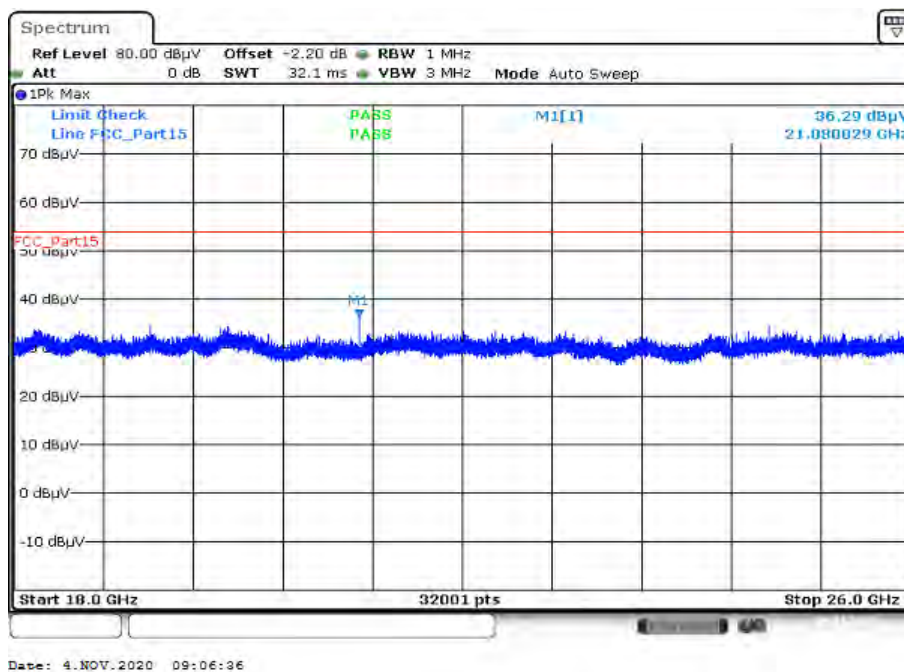
Plot 6: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-1; highest channel



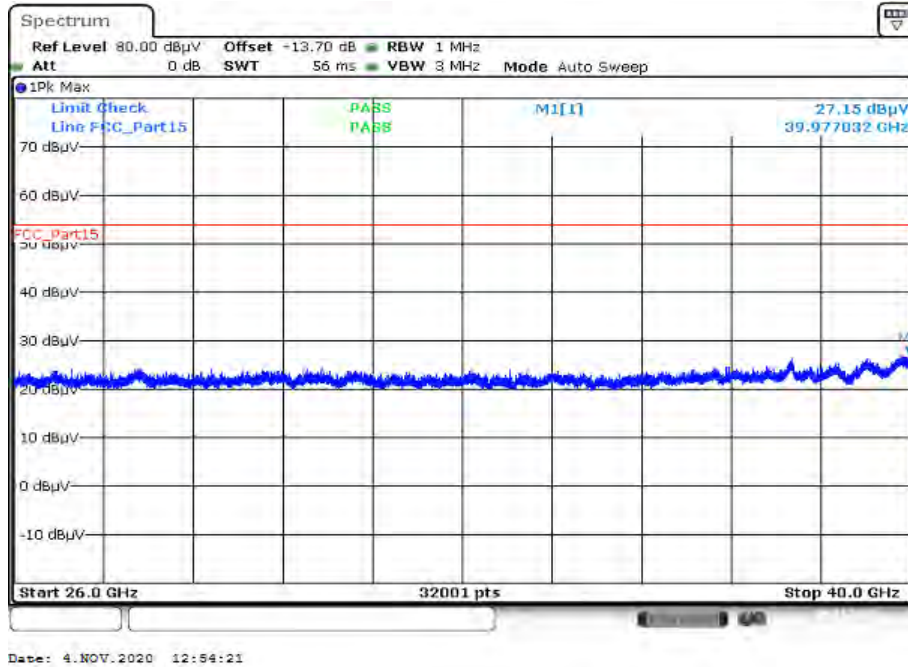
Plot 7: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2A; lowest channel



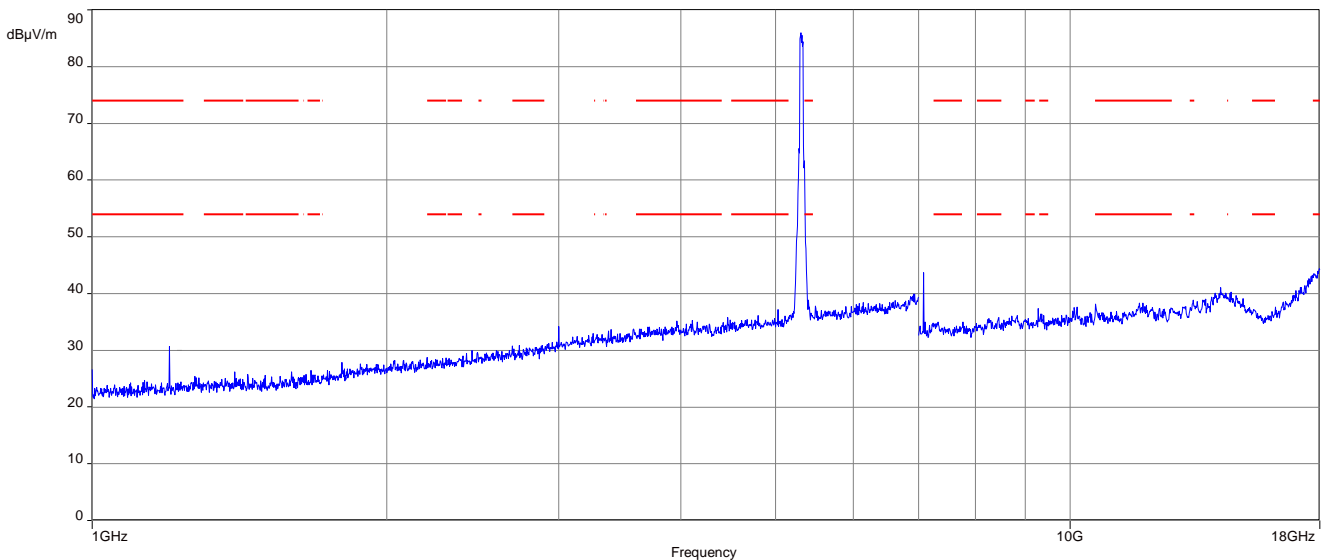
Plot 8: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2A; lowest channel



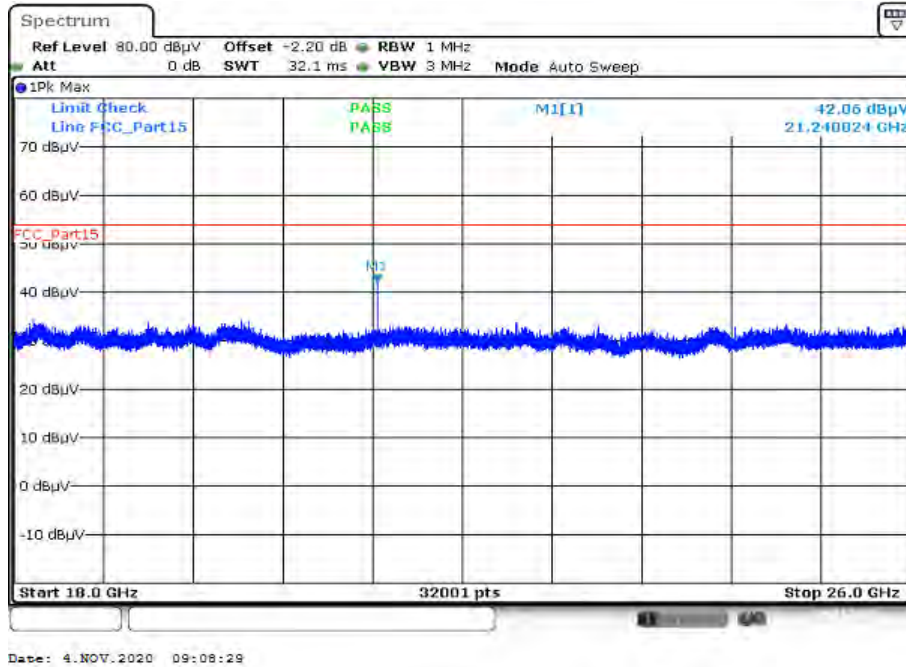
Plot 9: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2A; lowest channel



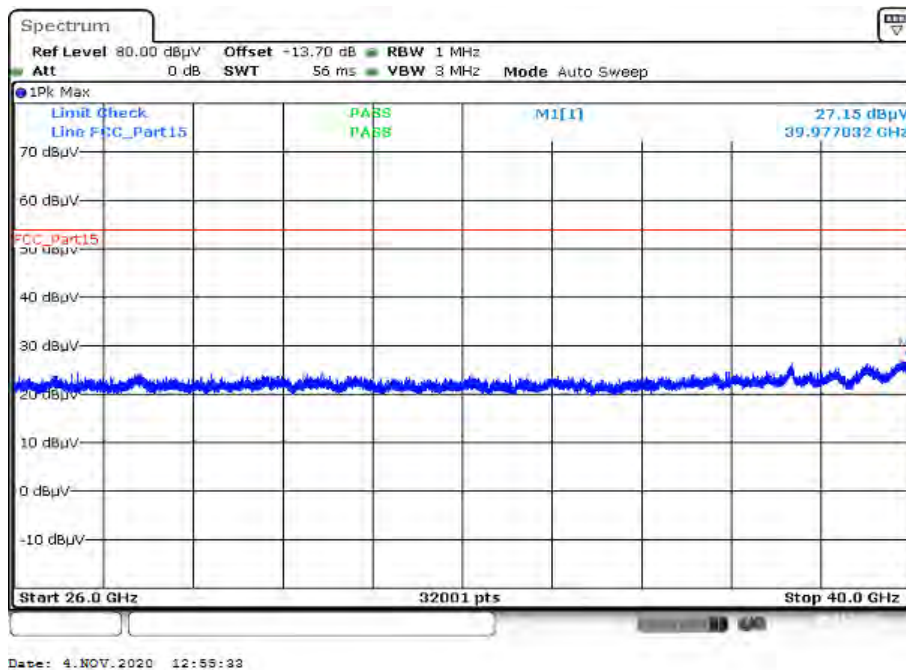
Plot 10: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2A; highest channel



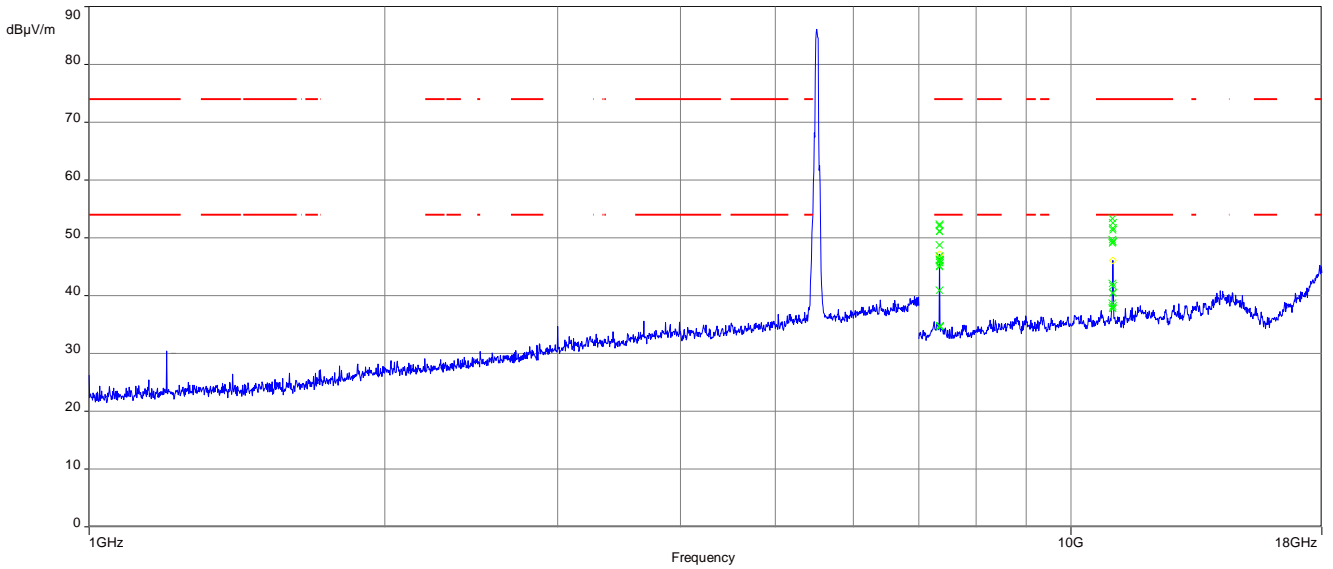
Plot 11: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2A; highest channel



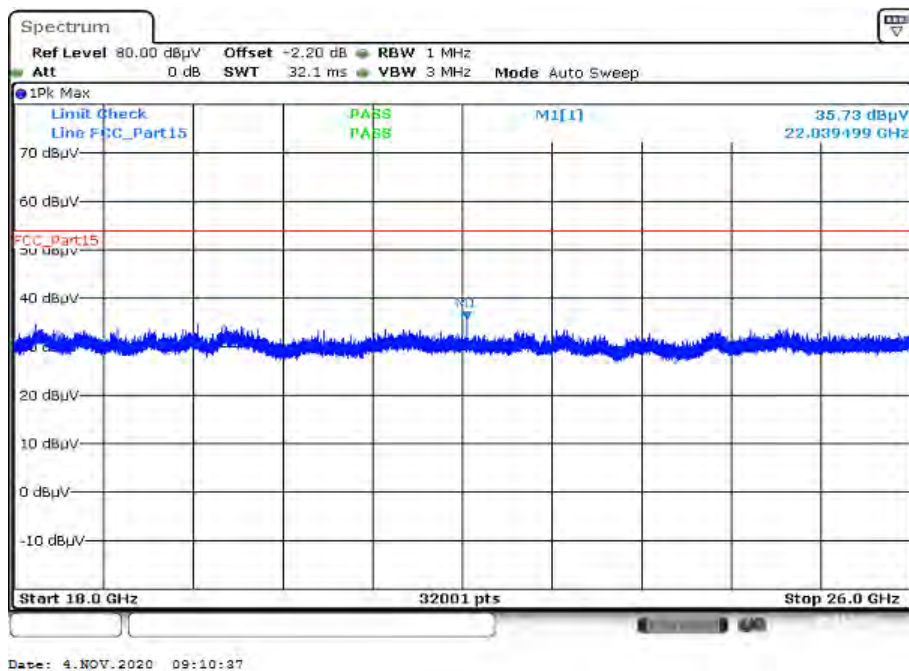
Plot 12: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2A; highest channel



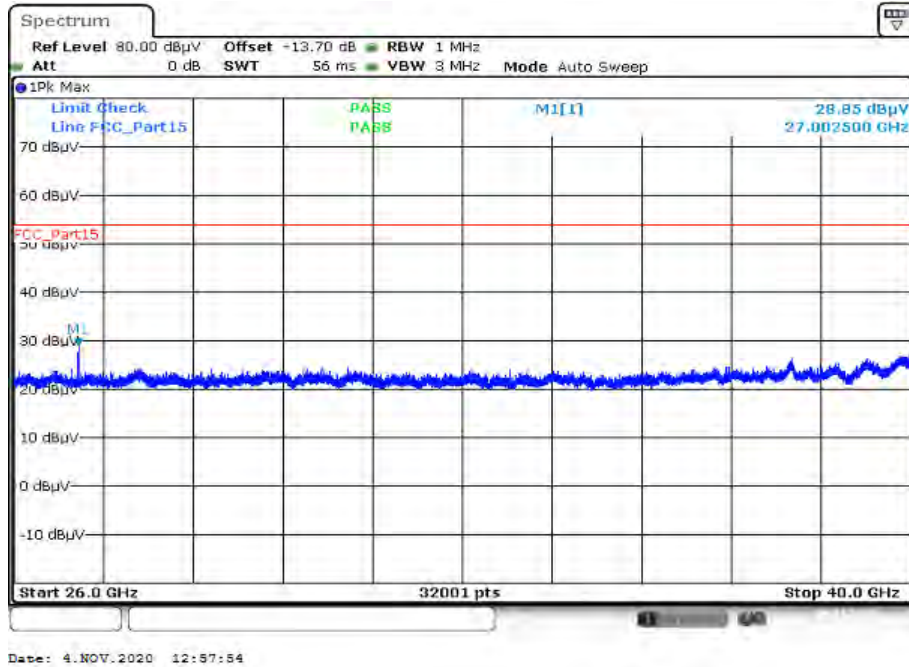
Plot 13: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



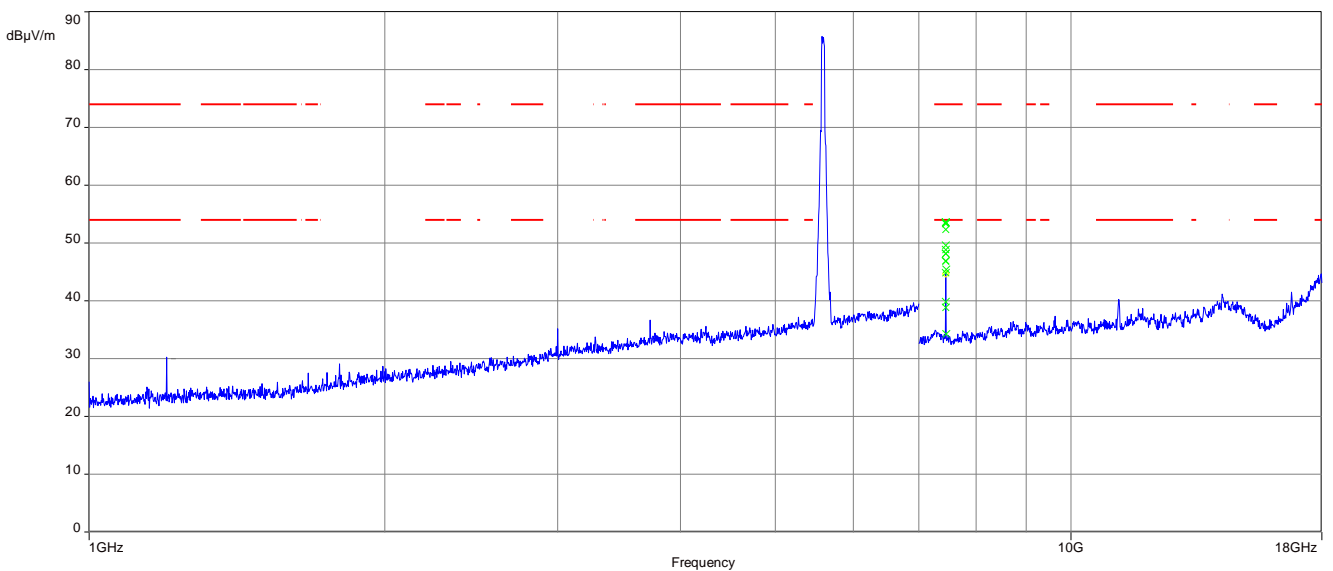
Plot 14: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



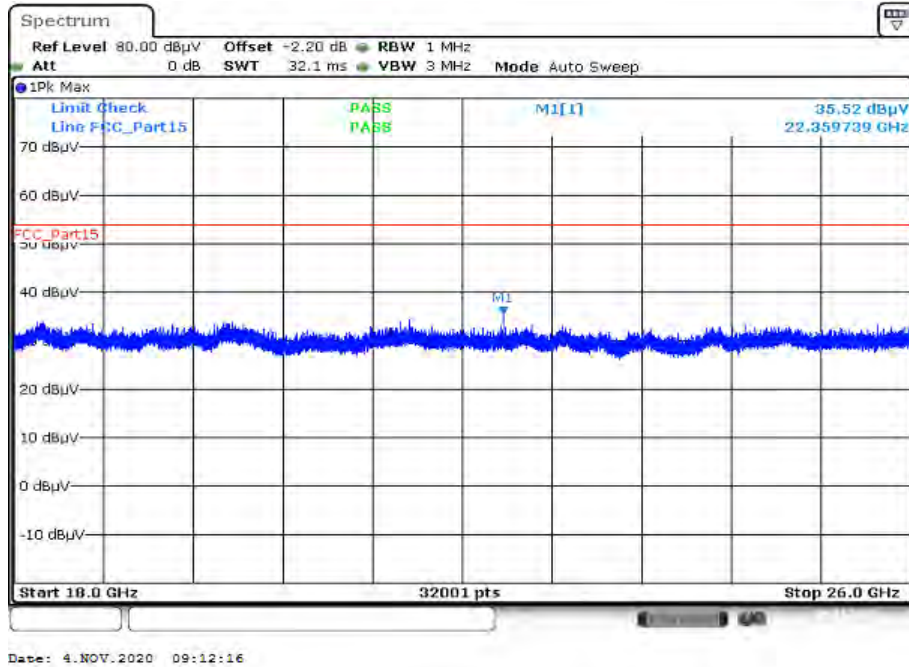
Plot 15: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



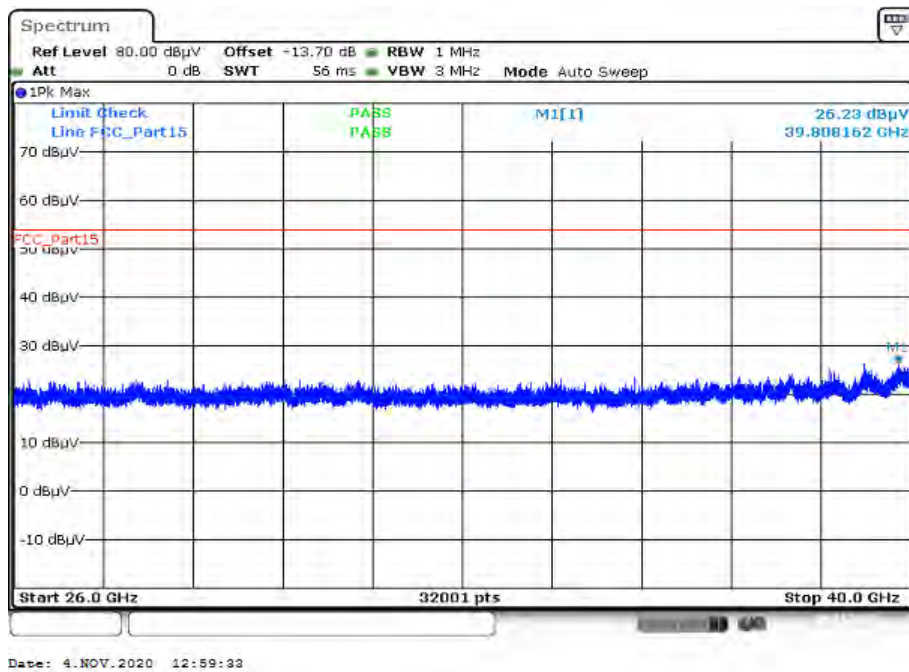
Plot 16: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2C; middle channel



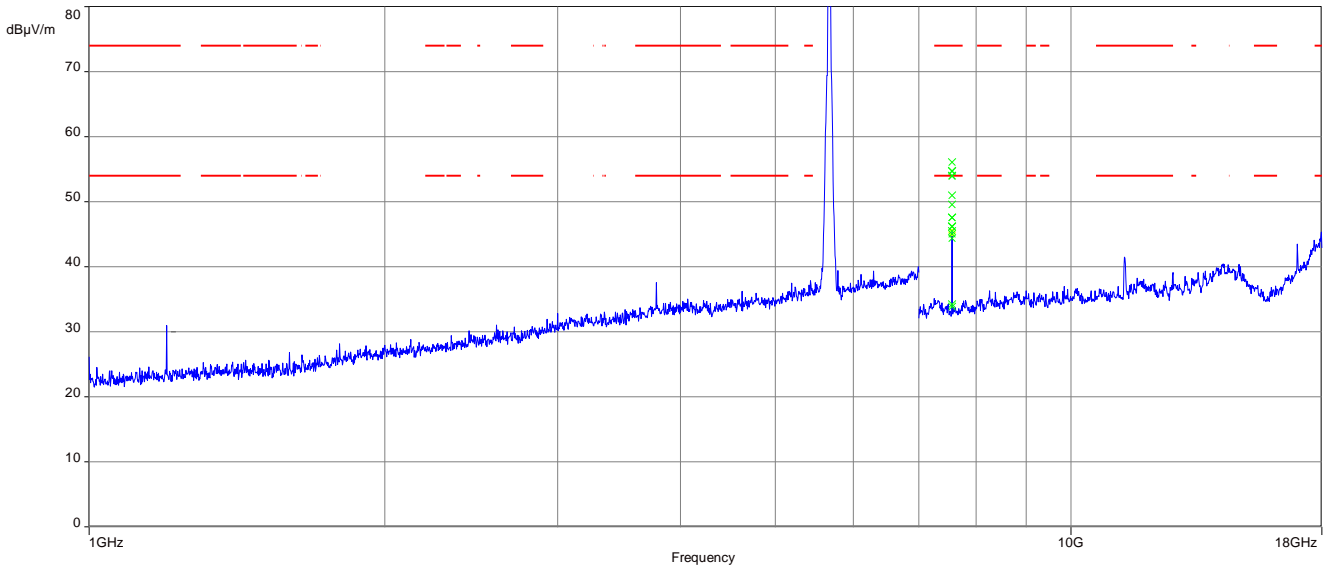
Plot 17: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2C; middle channel



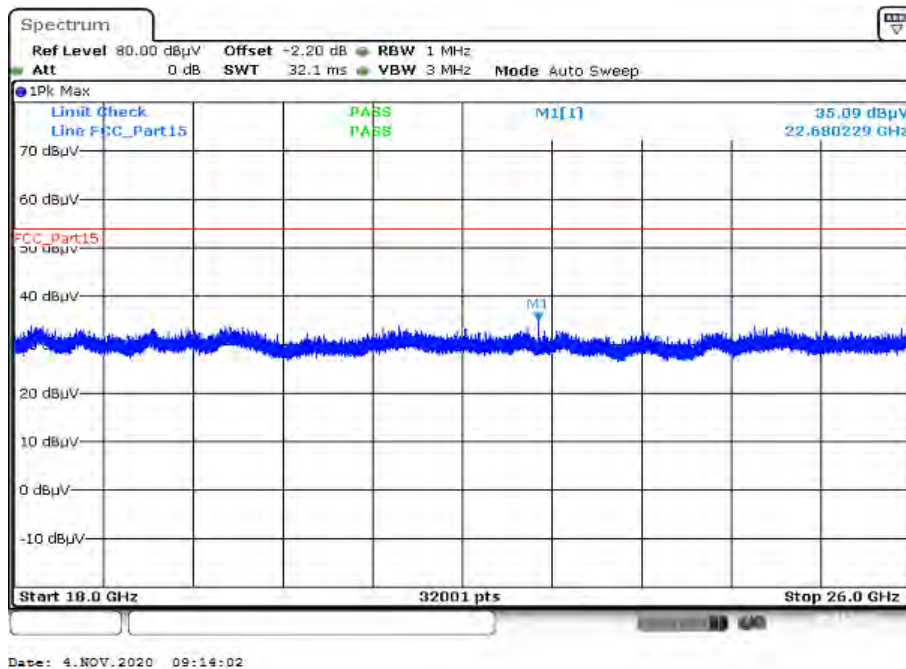
Plot 18: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2C; middle channel



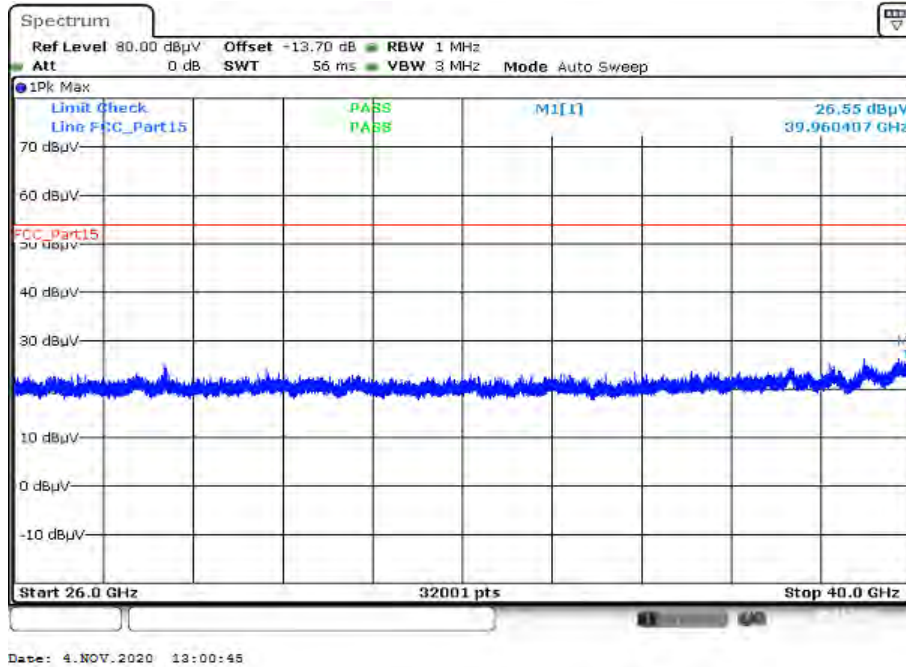
Plot 19: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2C; highest channel



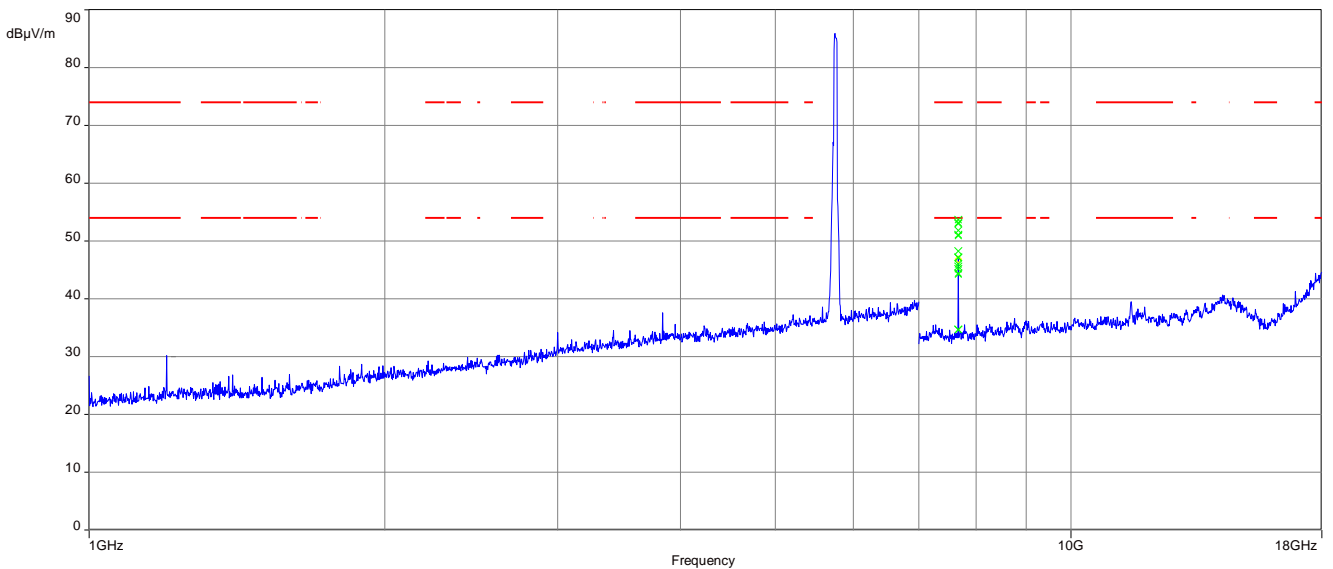
Plot 20: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2C; highest channel



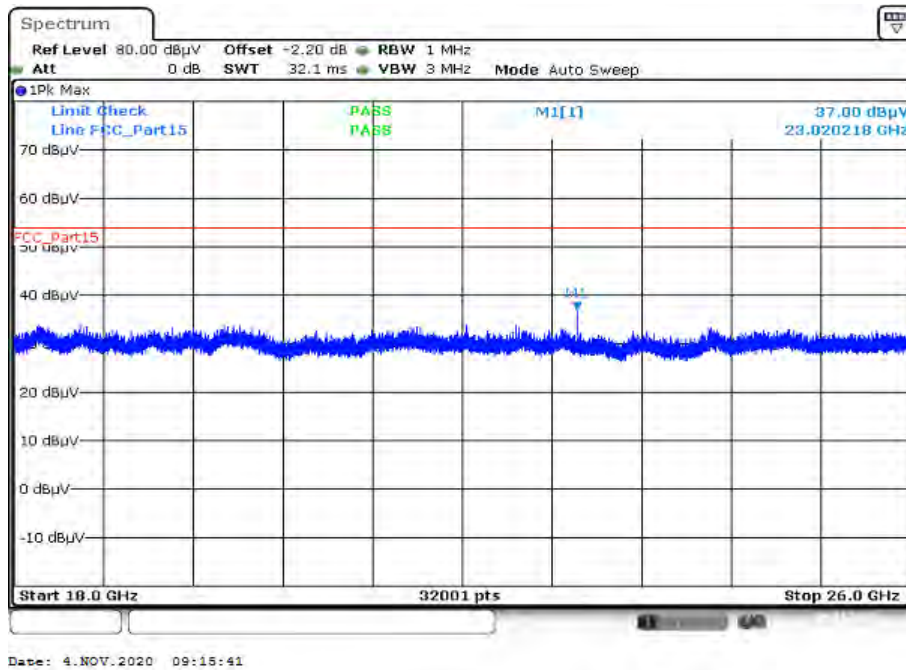
Plot 21: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2C; highest channel



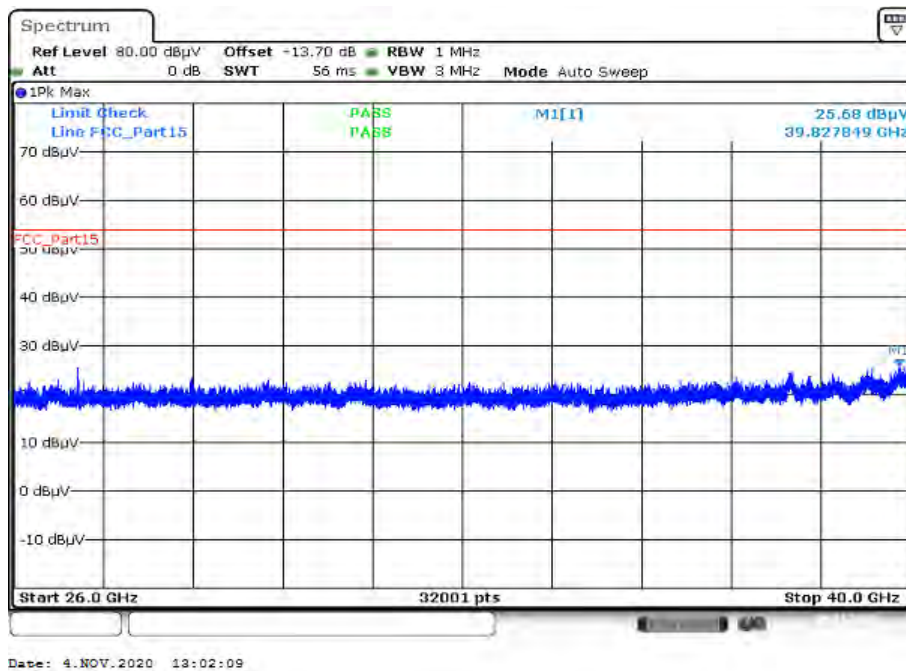
Plot 22: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-3; lowest channel



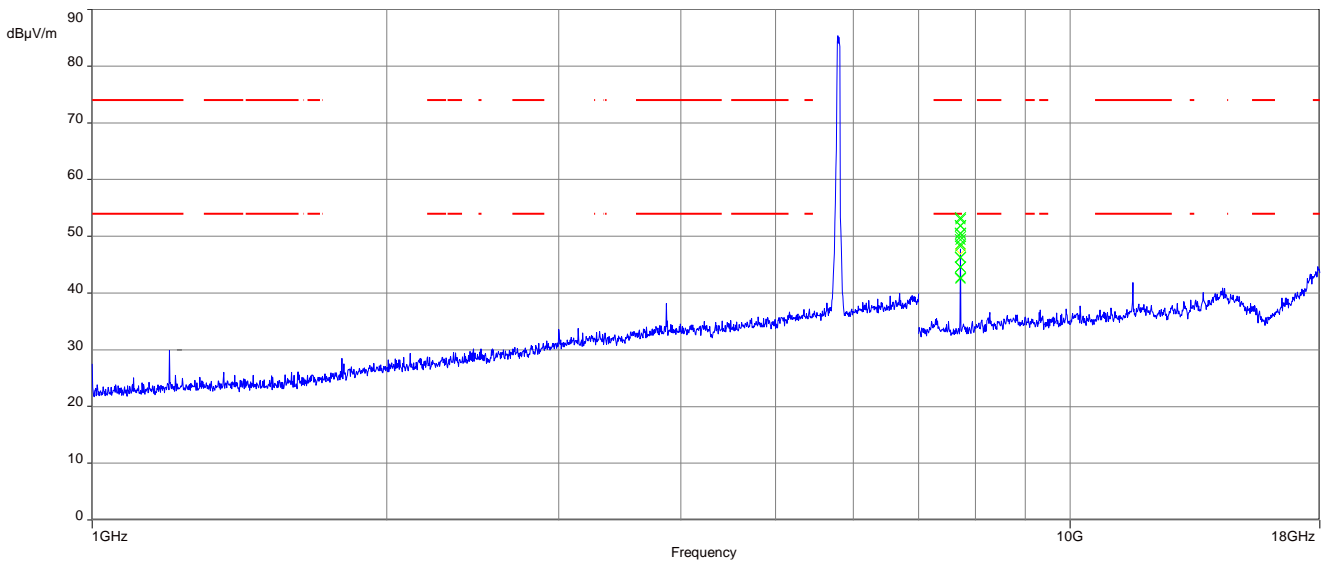
Plot 23: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-3; lowest channel



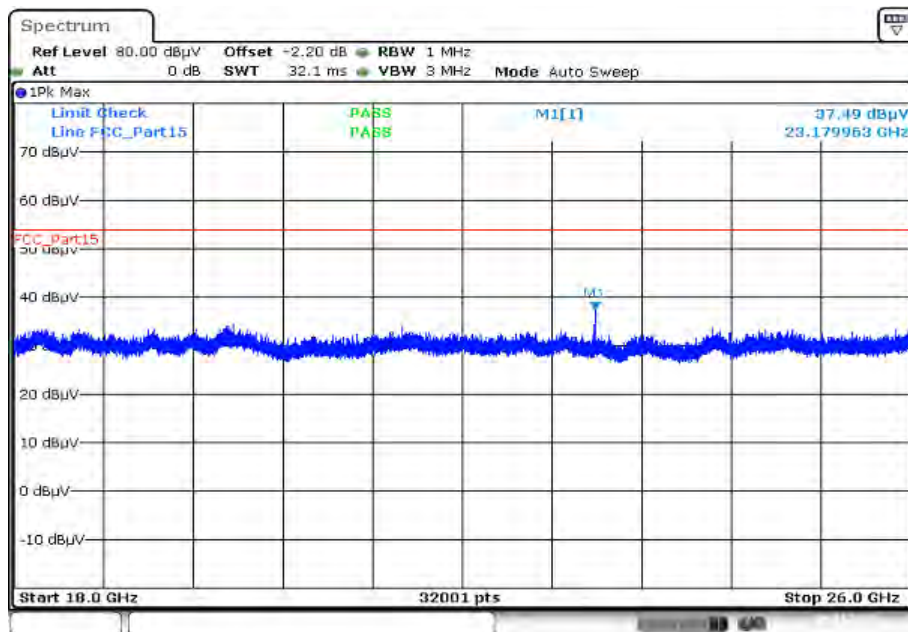
Plot 24: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-3; lowest channel



Plot 25: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-3; highest channel

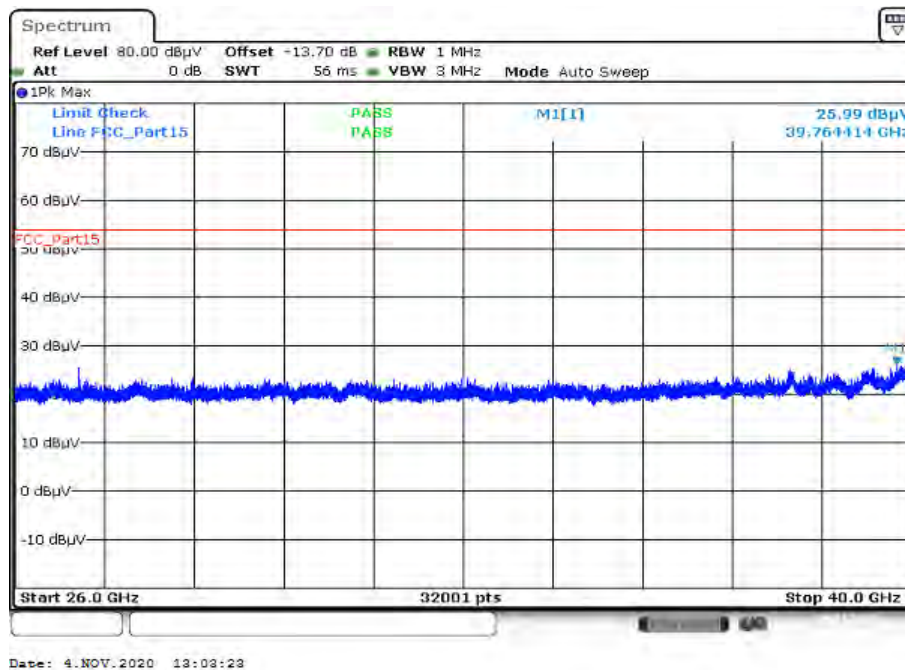


Plot 26: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-3; highest channel



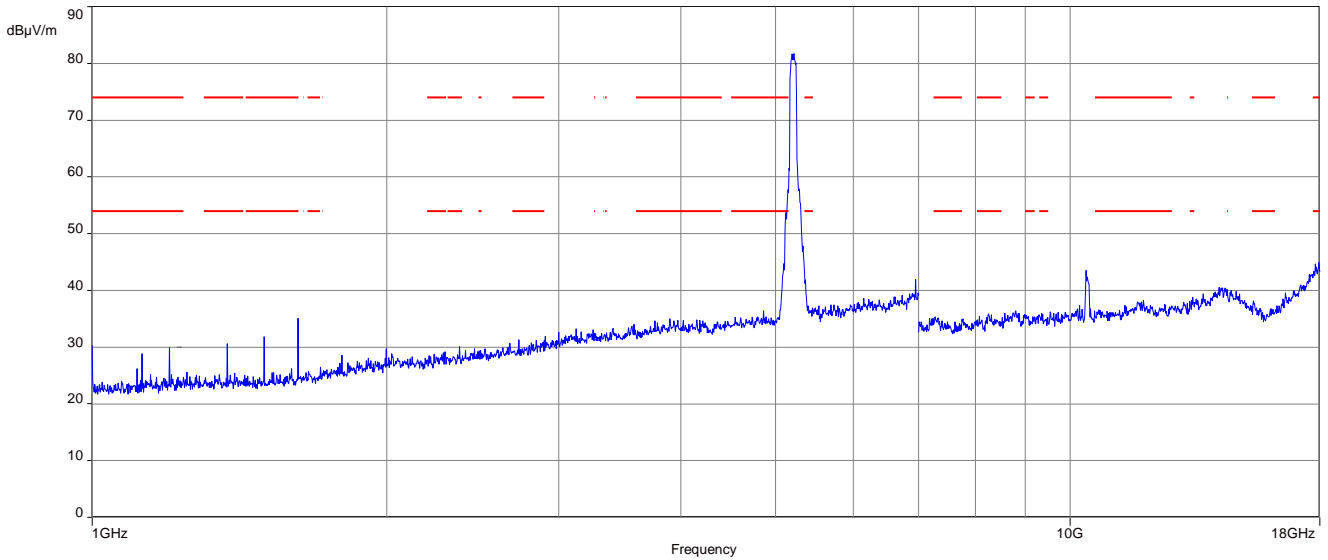
Date: 4.NOV.2020 09:17:20

Plot 27: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-3; highest channel

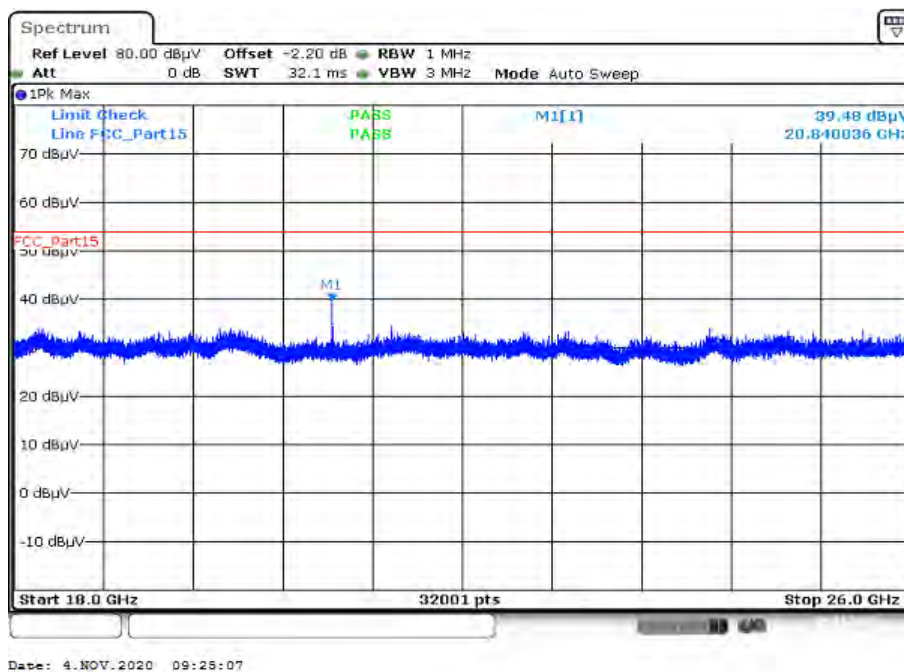


Plots: 80 MHz channel bandwidth (TAOGLAS FXP831.07.0100C)

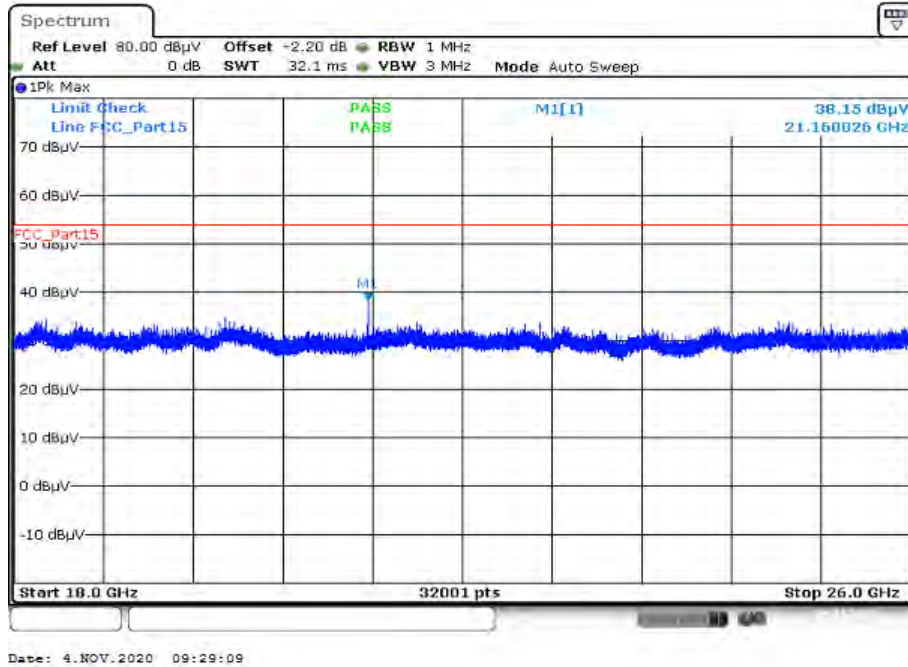
Plot 1: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-1; middle channel



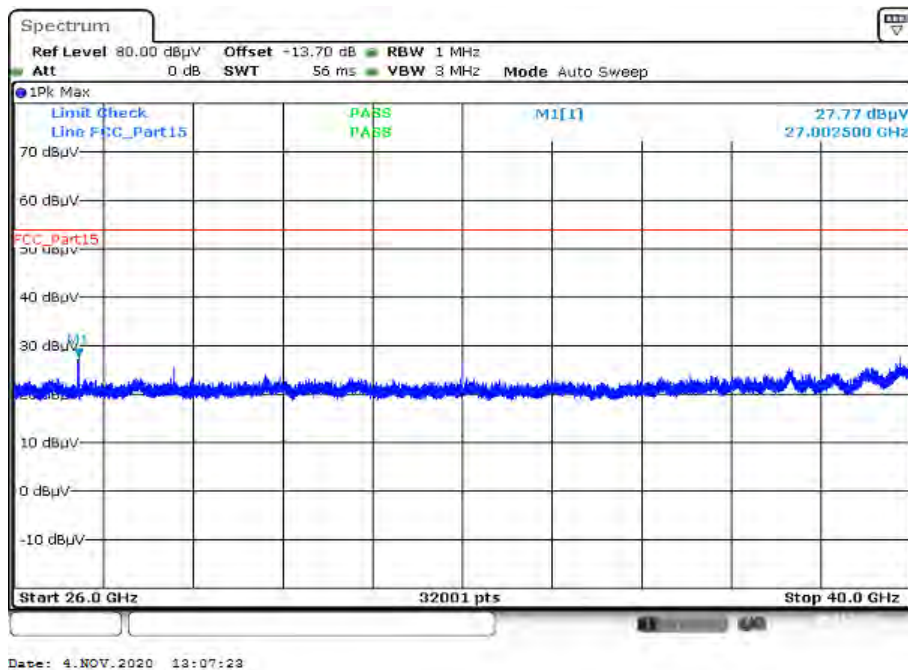
Plot 2: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-1; middle channel



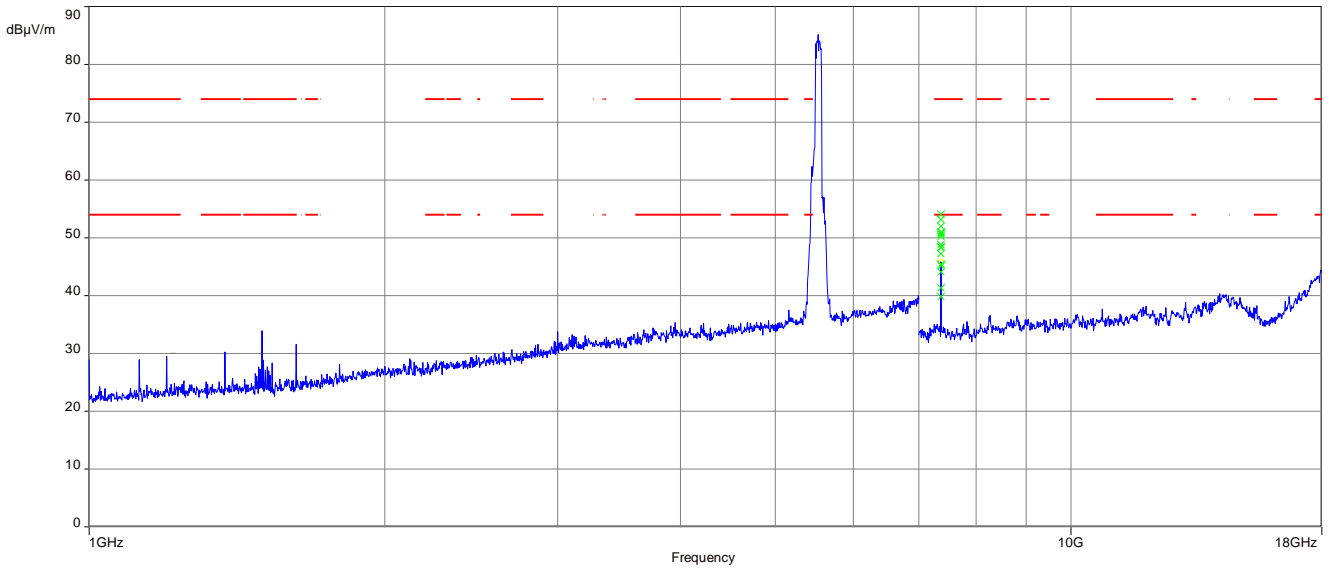
Plot 5: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2A; middle channel



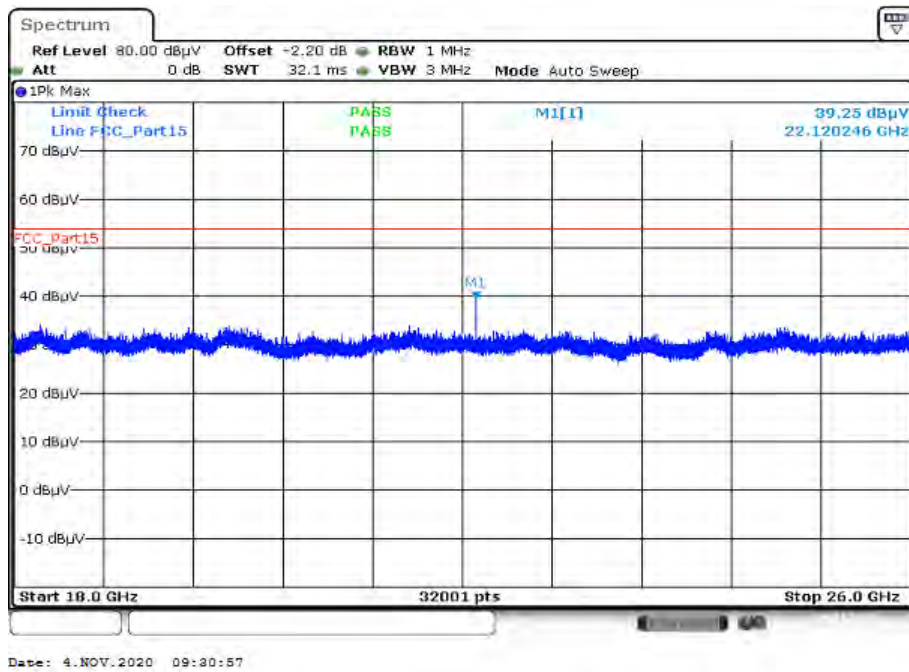
Plot 6: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2A; middle channel



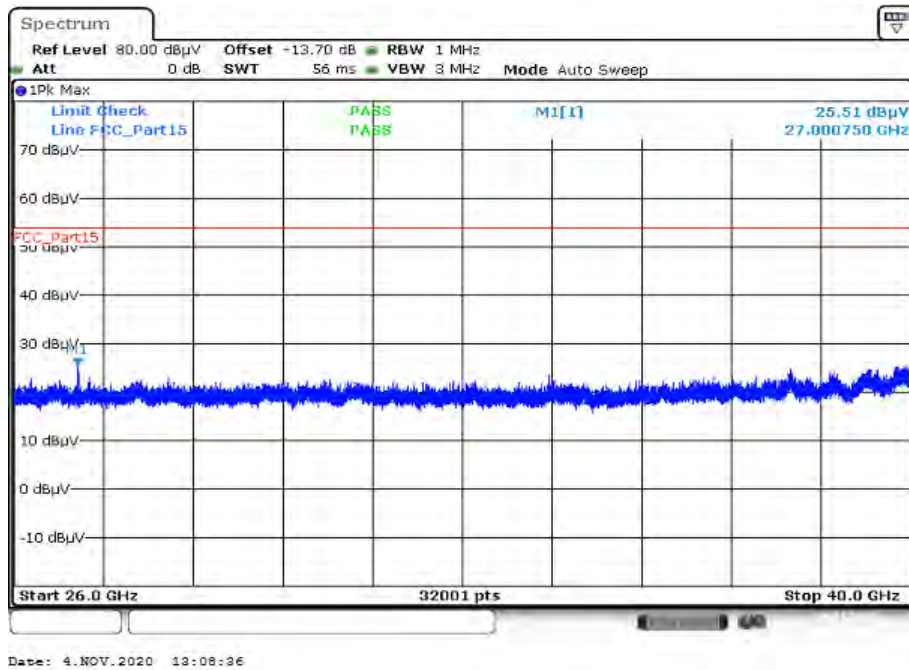
Plot 7: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



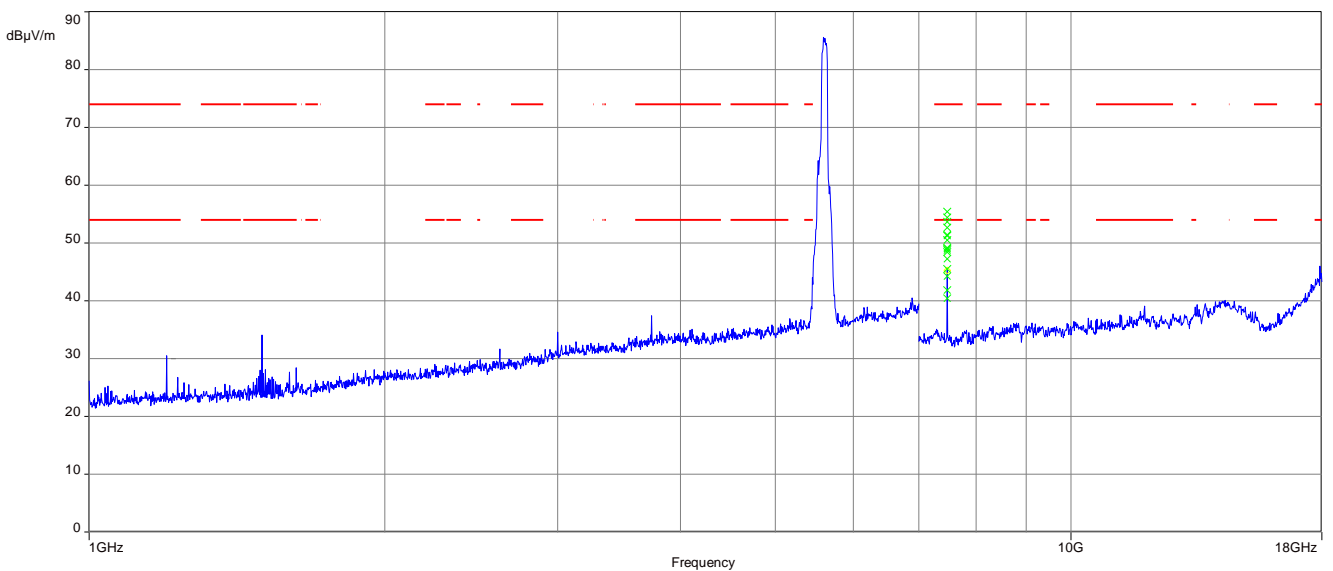
Plot 8: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



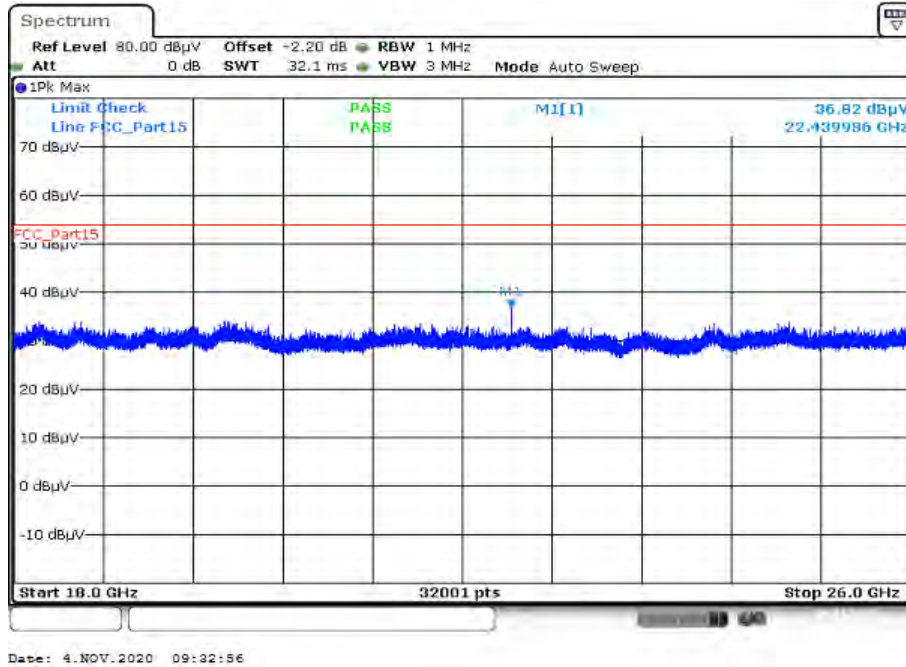
Plot 9: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



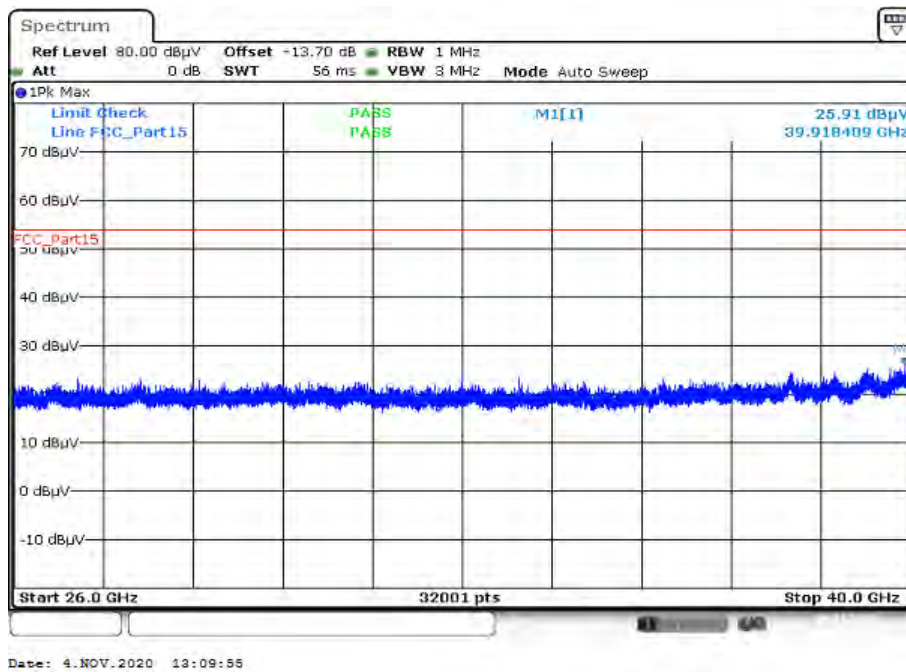
Plot 10: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2C; highest channel



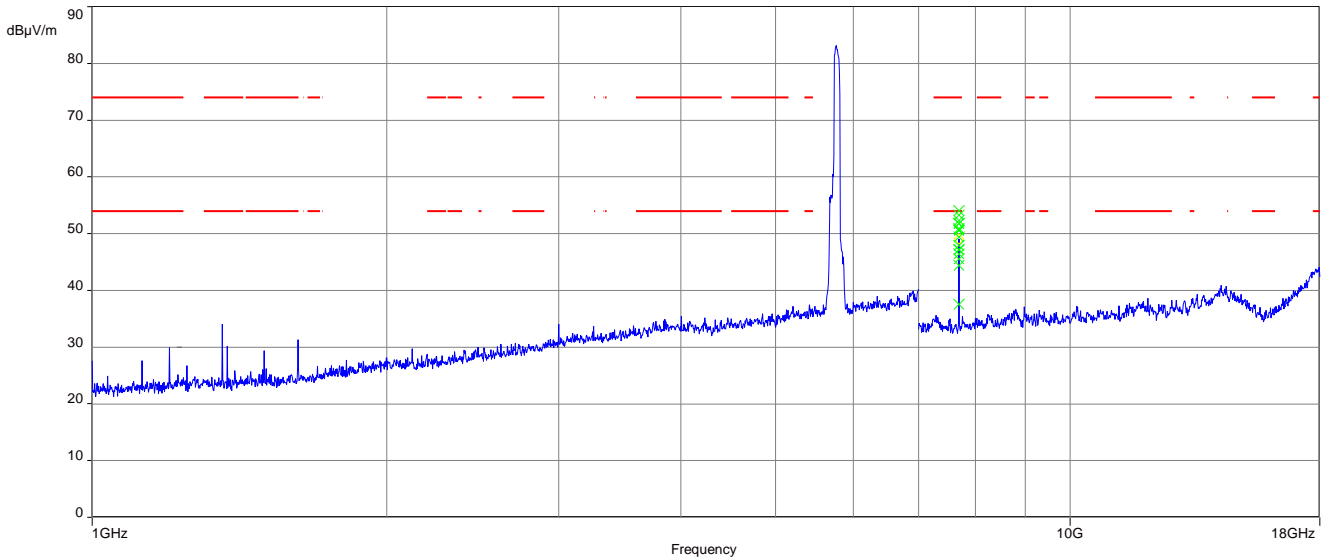
Plot 11: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2C; highest channel



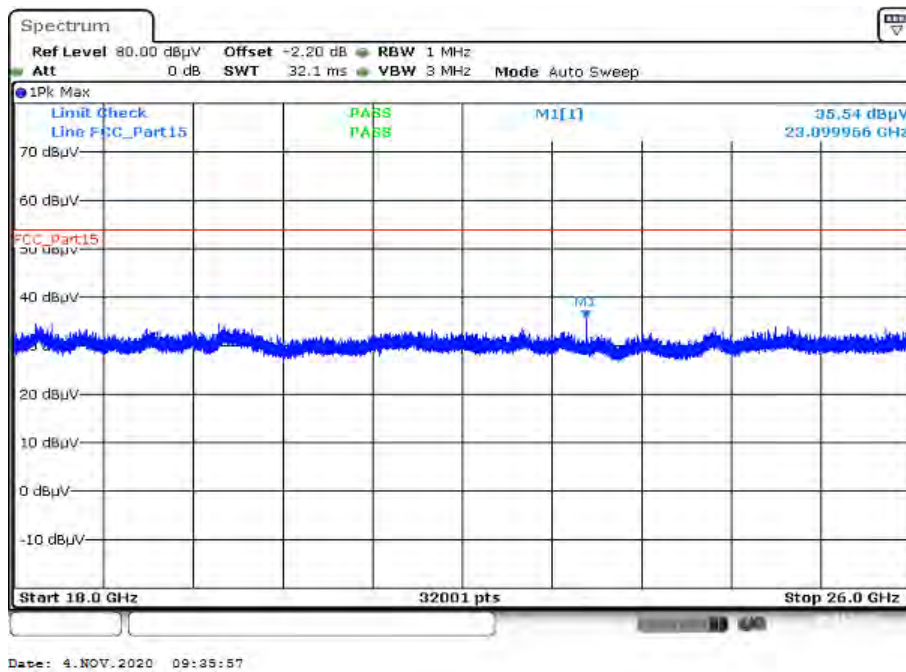
Plot 12: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2C; highest channel



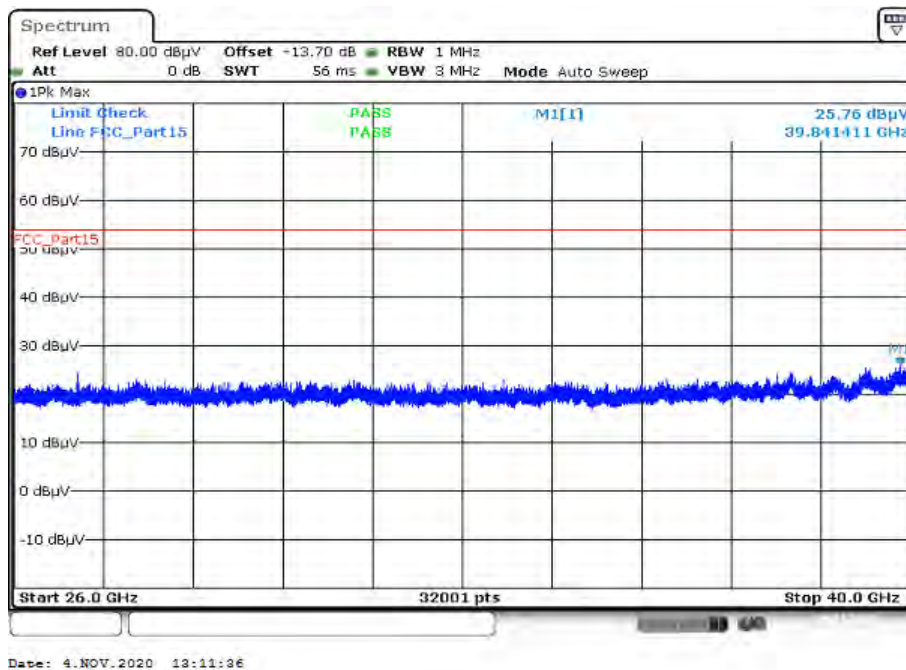
Plot 13: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-3; middle channel



Plot 14: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-3; middle channel



Plot 15: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-3; middle channel



Results: 20 MHz channel bandwidth (ANT-DB1-RAF-RPS)

TX Spurious Emissions Radiated [dBµV/m] / dBm								
U-NII-1 (5150 MHz to 5250 MHz)								
Lowest channel			Middle channel			Highest channel		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
-/-	Peak	-/-	-/-			-/-	Peak	-/-
	AVG	-/-					AVG	-/-
For emissions above 18 GHz please take look at the plots.						For emissions above 18 GHz please take look at the plots.		

TX Spurious Emissions Radiated [dBµV/m] / dBm								
U-NII-2A (5250 MHz to 5350 MHz)								
Lowest channel			Middle channel			Highest channel		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
-/-	Peak	-/-	-/-			-/-	Peak	-/-
	AVG	-/-					AVG	-/-
For emissions above 18 GHz please take look at the plots.						For emissions above 18 GHz please take look at the plots.		

TX Spurious Emissions Radiated [dBµV/m] / dBm								
U-NII-2C (5470 MHz to 5725 MHz)								
Lowest channel			Middle channel			Highest channel		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
11000.3	Peak	62.2	11198.7	Peak	61.7	11398.9	Peak	63.8
	AVG	50.2		AVG	49.8		AVG	51.4
7333.3	Peak	51.1	7471.2	Peak	54.3	-/-	Peak	-/-
	AVG	45.3		AVG	50.3		AVG	-/-
For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.		

TX Spurious Emissions Radiated [dBµV/m] / dBm								
U-NII-3 (5725 MHz to 5850 MHz)								
Lowest channel			Middle channel			Highest channel		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
11485.9	Peak	61.1	11565.0	Peak	60.6	11649.7	Peak	57.4
	AVG	49.2		AVG	48.0		AVG	46.4
For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.		

Results: 40 MHz channel bandwidth (ANT-DB1-RAF-RPS)

TX Spurious Emissions Radiated [dBµV/m] / dBm								
U-NII-1 (5150 MHz to 5250 MHz)								
Lowest channel			Middle channel			Highest channel		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
-/-	Peak	-/-	-/-			-/-	Peak	-/-
	AVG	-/-					AVG	-/-
For emissions above 18 GHz please take look at the plots.						For emissions above 18 GHz please take look at the plots.		

TX Spurious Emissions Radiated [dBµV/m] / dBm								
U-NII-2A (5250 MHz to 5350 MHz)								
Lowest channel			Middle channel			Highest channel		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
-/-	Peak	-/-	-/-			-/-	Peak	-/-
	AVG	-/-					AVG	-/-
For emissions above 18 GHz please take look at the plots.						For emissions above 18 GHz please take look at the plots.		

TX Spurious Emissions Radiated [dBµV/m] / dBm								
U-NII-2C (5470 MHz to 5725 MHz)								
Lowest channel			Middle channel			Highest channel		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
-/-	Peak	-/-	-/-	Peak	-/-	7564.8	Peak	55.9
	AVG	-/-		AVG	-/-		AVG	53.3
For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.		

TX Spurious Emissions Radiated [dBµV/m] / dBm								
U-NII-3 (5725 MHz to 5850 MHz)								
Lowest channel			Middle channel			Highest channel		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
7673.2	Peak	51.5	-/-			7726.7	Peak	52.6
	AVG	46.9					AVG	48.7
For emissions above 18 GHz please take look at the plots.						For emissions above 18 GHz please take look at the plots.		

Results: 80 MHz channel bandwidth (ANT-DB1-RAF-RPS)

TX Spurious Emissions Radiated [dBµV/m] / dBm		
U-NII-1 (5150 MHz to 5250 MHz)		
Middle channel		
F [MHz]	Detector	Level [dBµV/m]
-/-	Peak	-/-
	AVG	-/-
For emissions above 18 GHz please take look at the plots.		

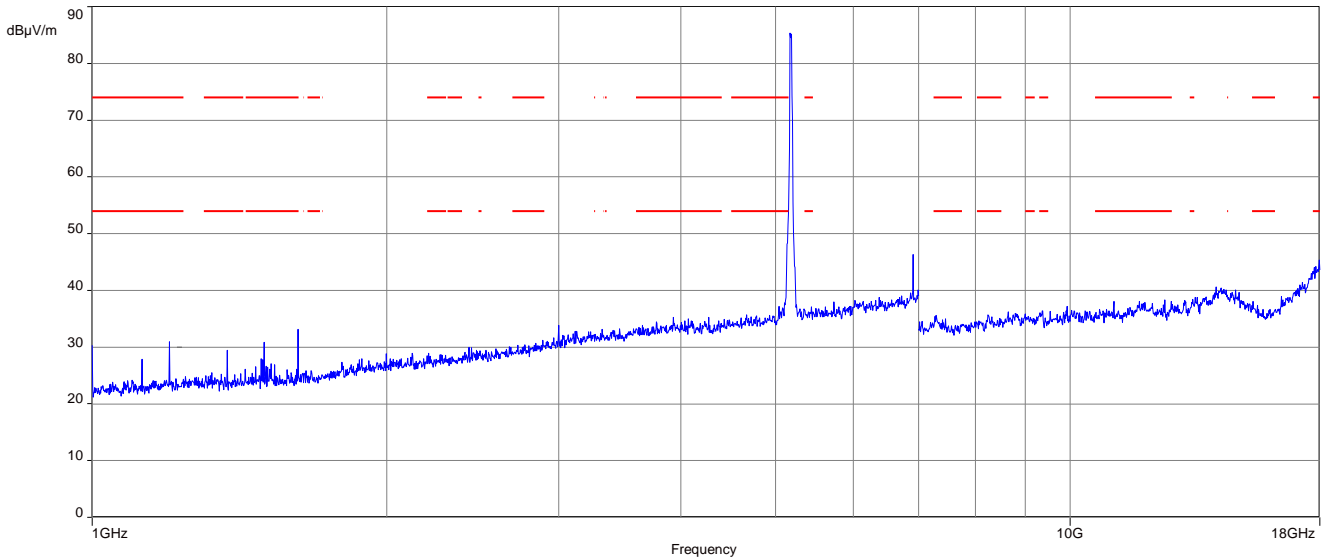
TX Spurious Emissions Radiated [dBµV/m] / dBm		
U-NII-2A (5250 MHz to 5350 MHz)		
Middle channel		
F [MHz]	Detector	Level [dBµV/m]
-/-	Peak	-/-
	AVG	-/-
For emissions above 18 GHz please take look at the plots.		

TX Spurious Emissions Radiated [dBµV/m] / dBm					
U-NII-2C (5470 MHz to 5725 MHz)					
Lowest channel			Highest channel		
7372.9	Peak	50.2	7479	Peak	52.9
	AVG	44.3		AVG	49.0
For emissions above 18 GHz please take look at the plots.			For emissions above 18 GHz please take look at the plots.		

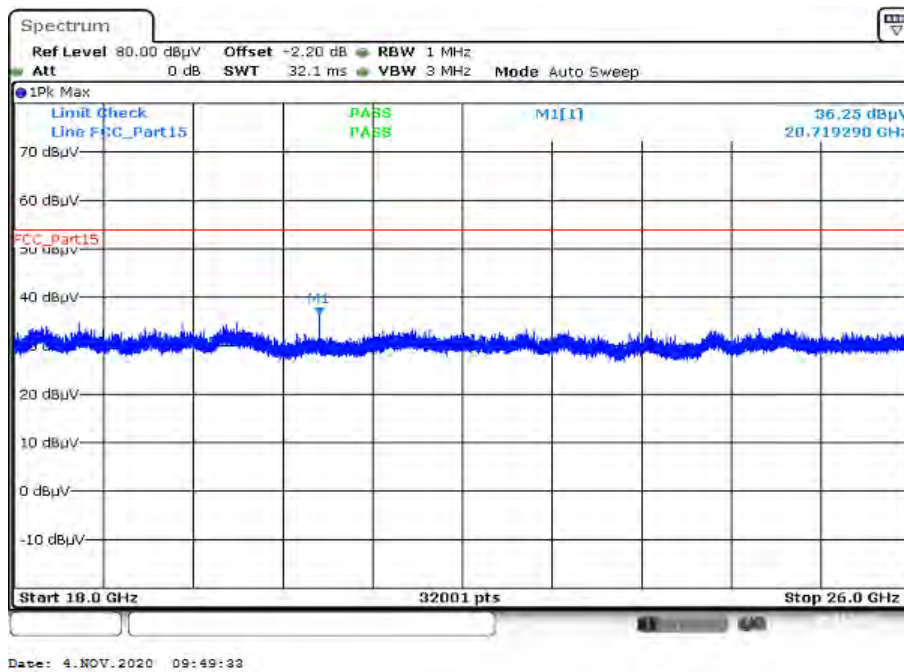
TX Spurious Emissions Radiated [dBµV/m] / dBm		
U-NII-3 (5725 MHz to 5850 MHz)		
Middle channel		
F [MHz]	Detector	Level [dBµV/m]
7699	Peak	54.4
	AVG	51.4
For emissions above 18 GHz please take look at the plots.		

Plots: 20 MHz channel bandwidth (ANT-DB1-RAF-RPS)

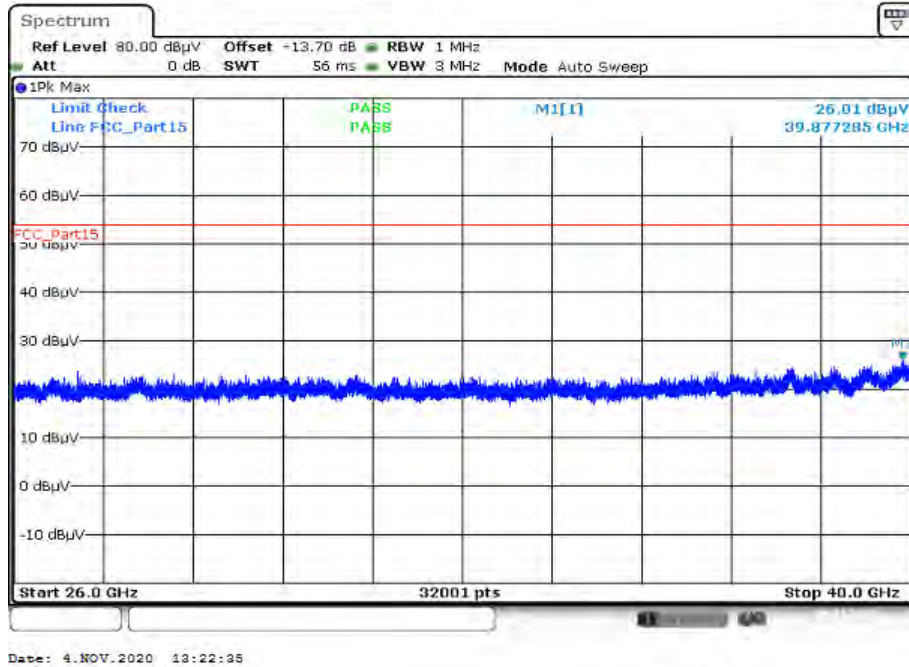
Plot 1: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-1; lowest channel



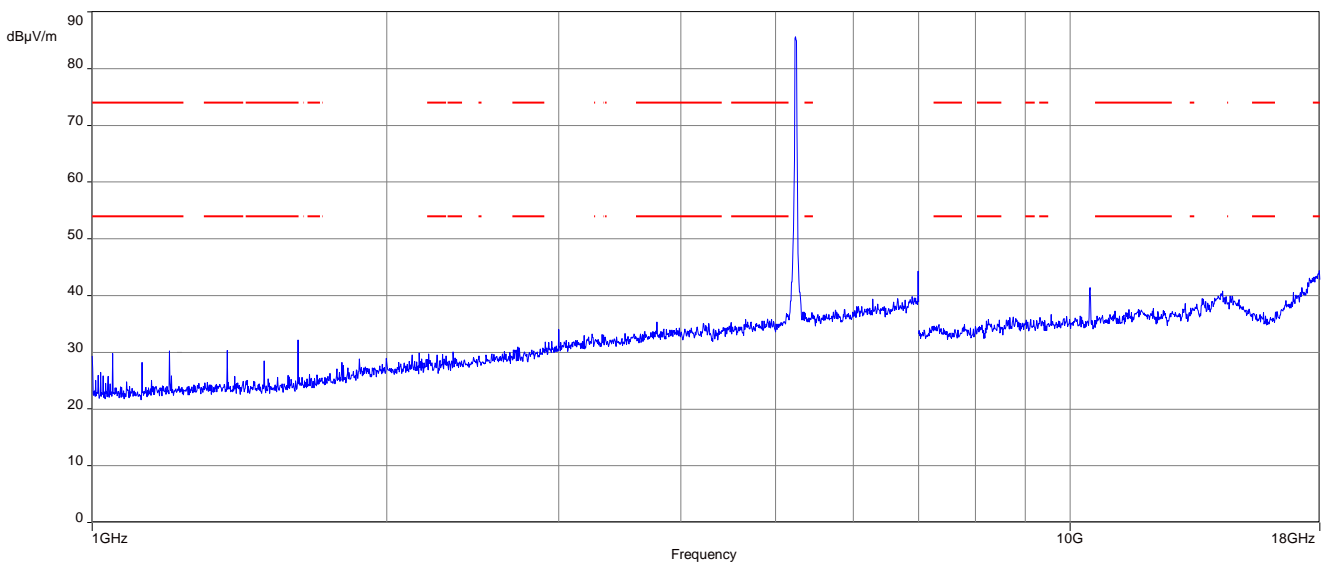
Plot 2: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-1; lowest channel



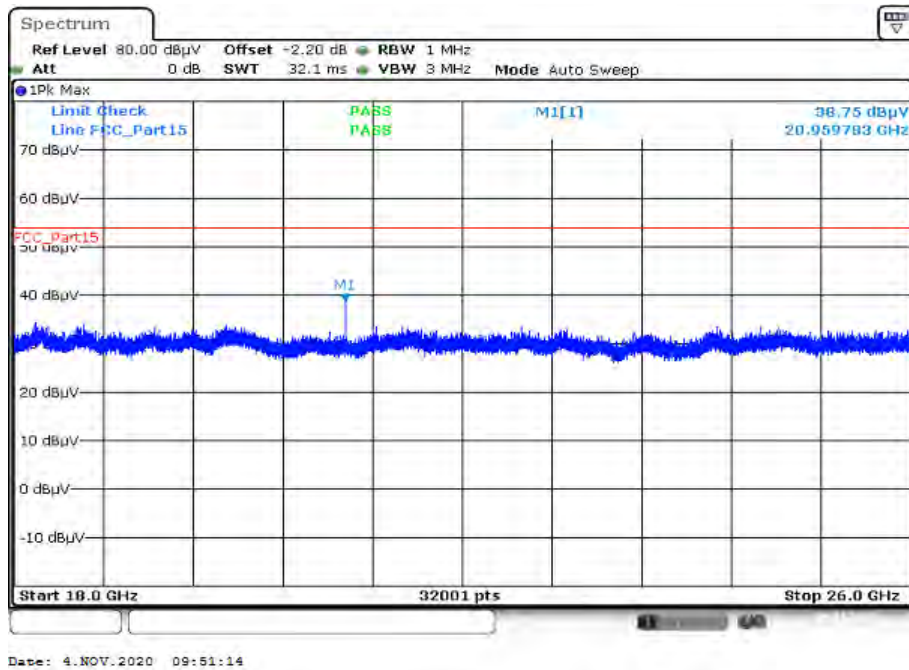
Plot 3: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-1; lowest channel



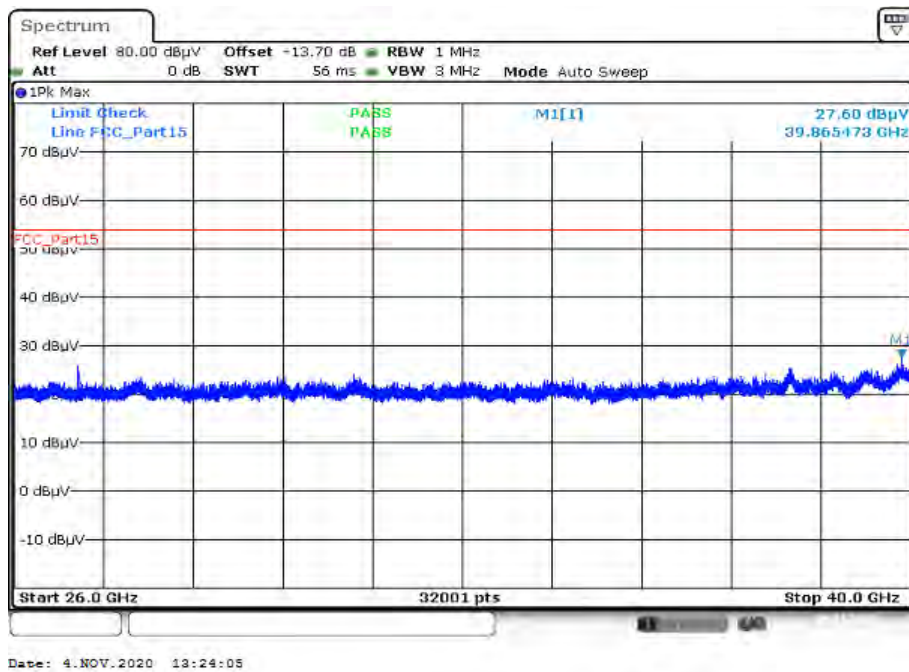
Plot 4: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-1; highest channel



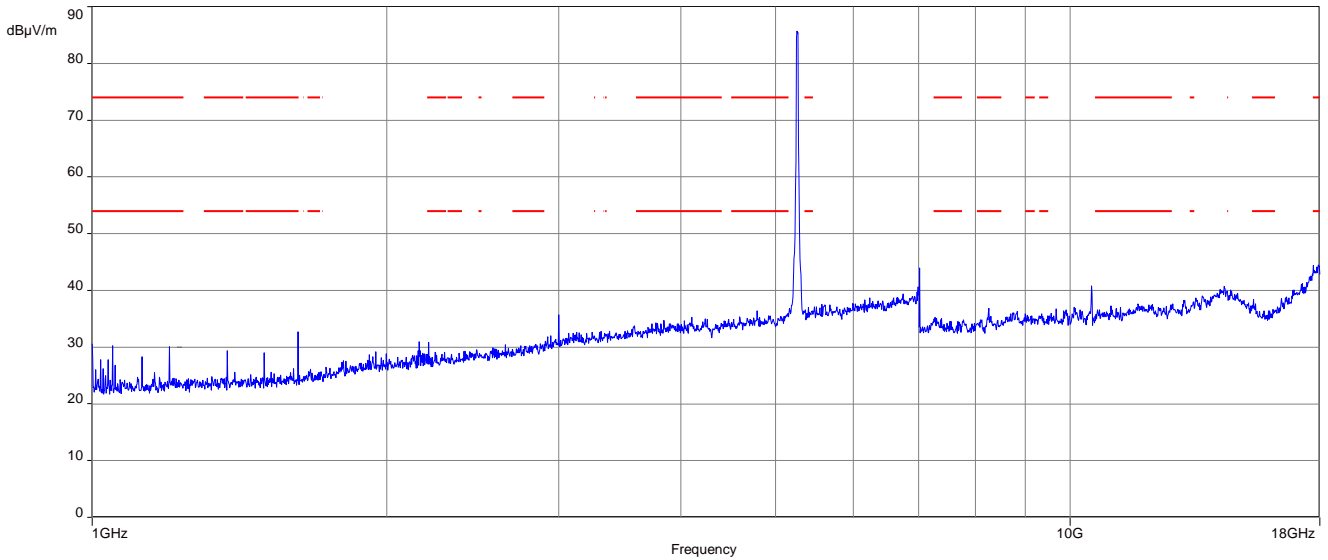
Plot 5: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-1; highest channel



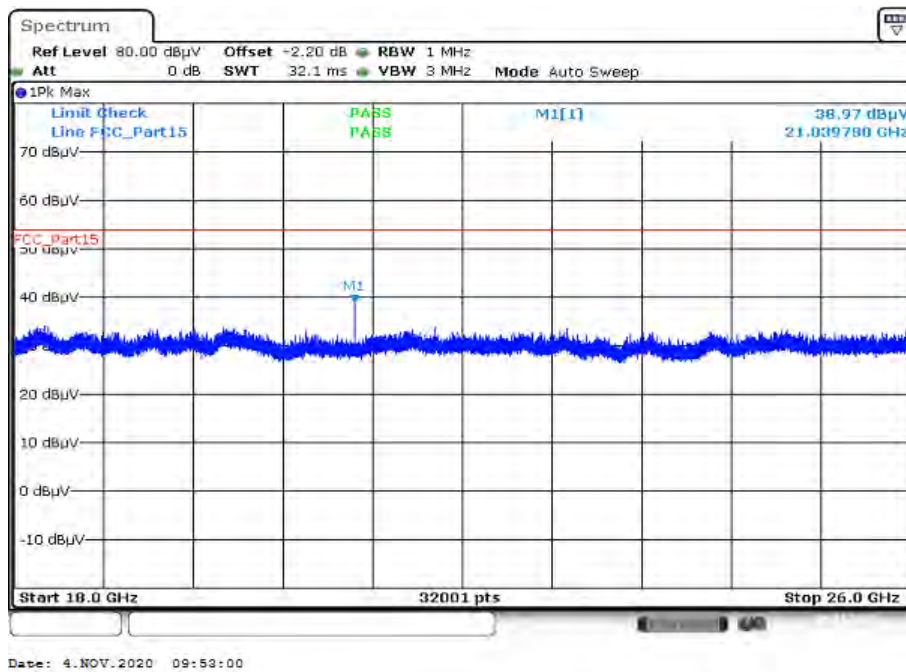
Plot 6: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-1; highest channel



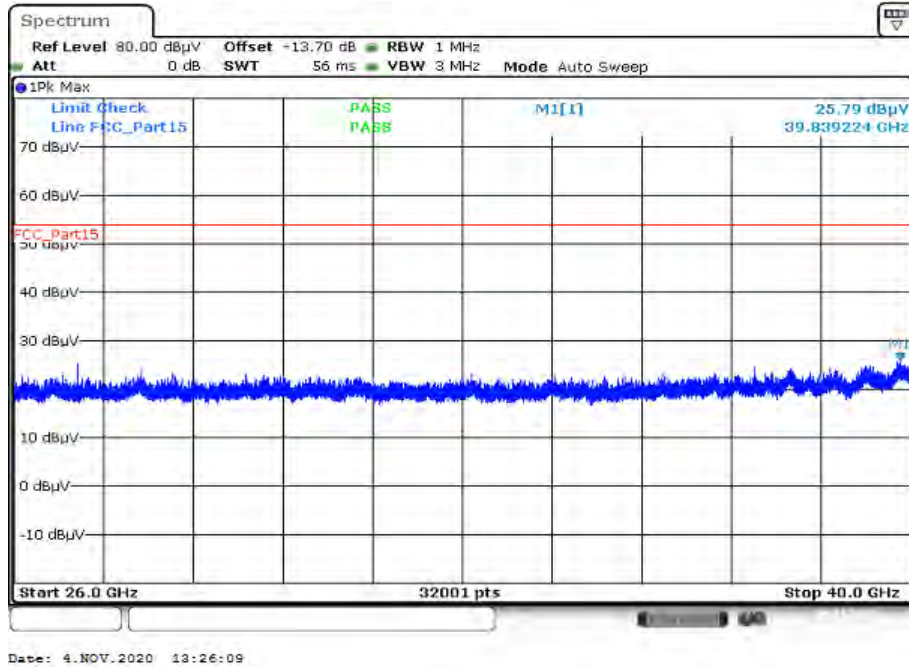
Plot 7: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2A; lowest channel



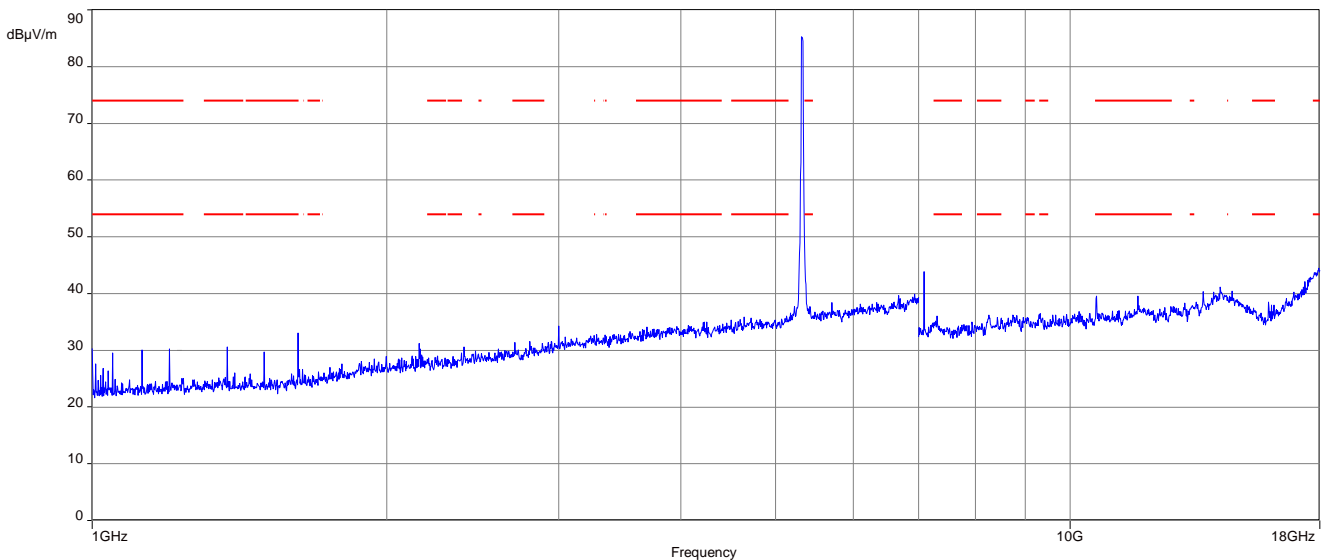
Plot 8: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2A; lowest channel



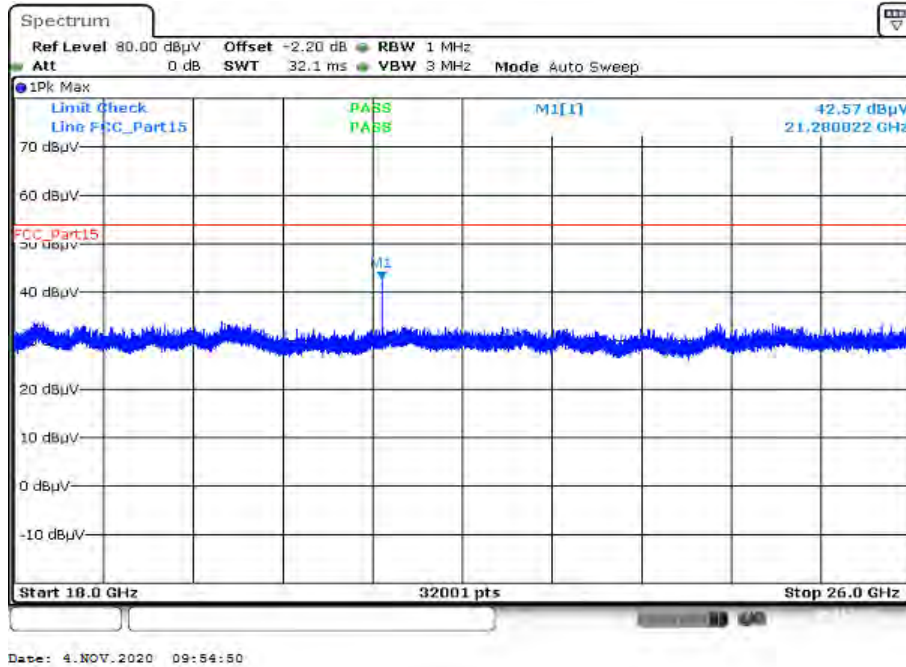
Plot 9: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2A; lowest channel



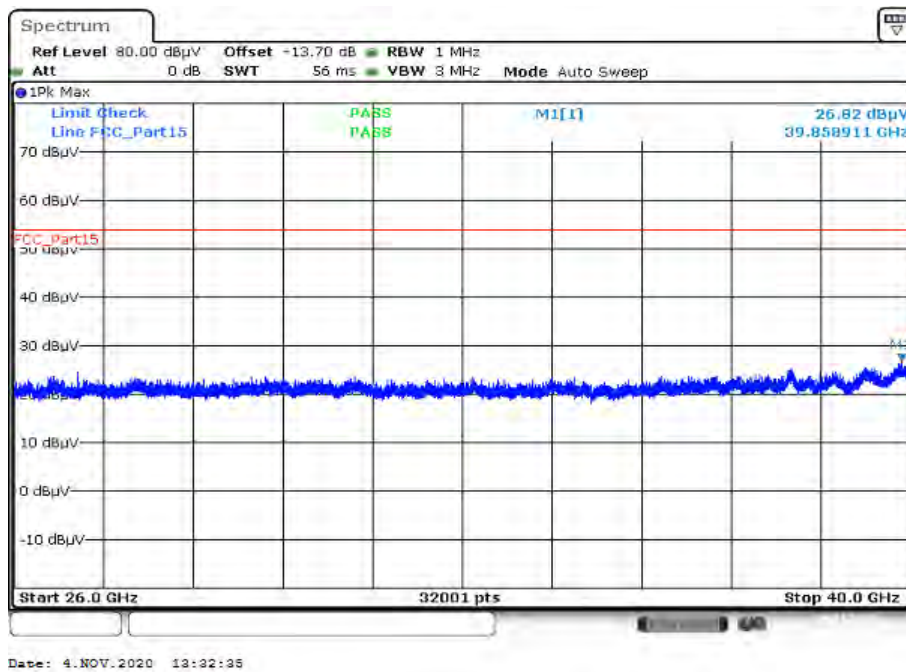
Plot 10: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2A; highest channel



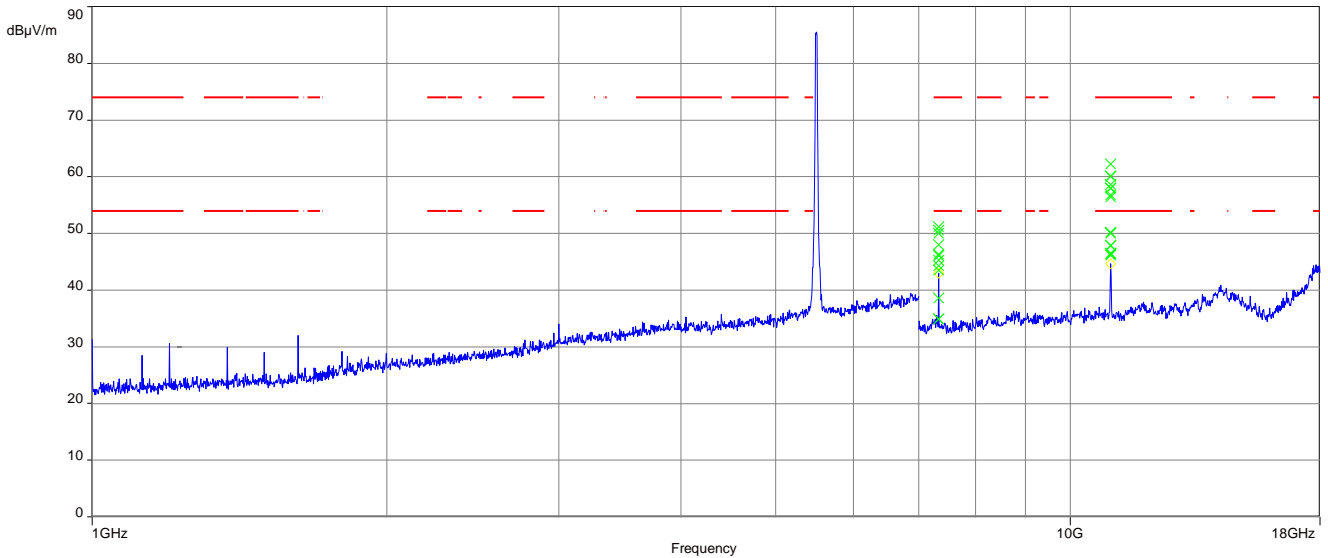
Plot 11: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2A; highest channel



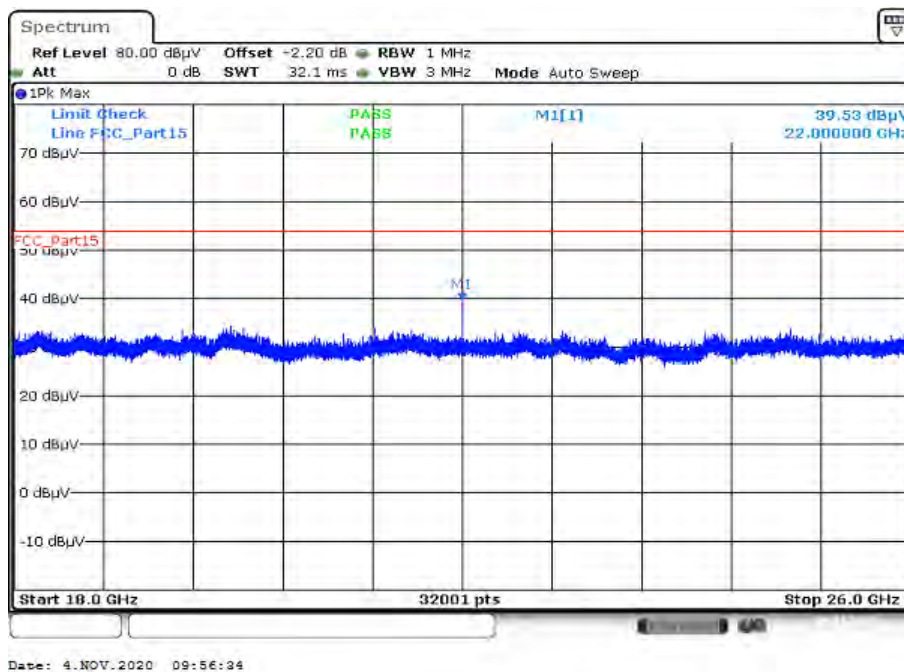
Plot 12: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2A; highest channel



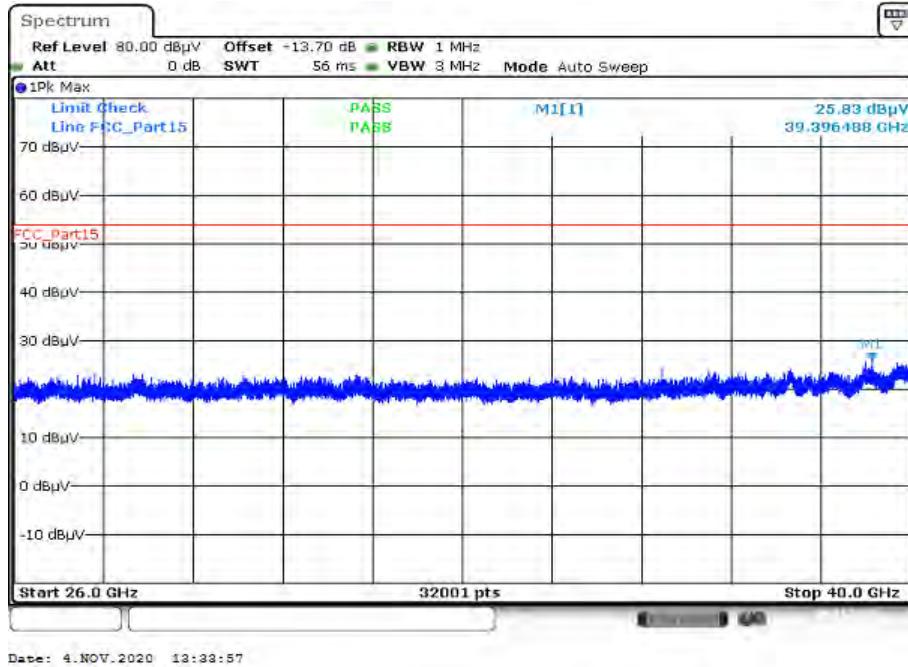
Plot 13: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



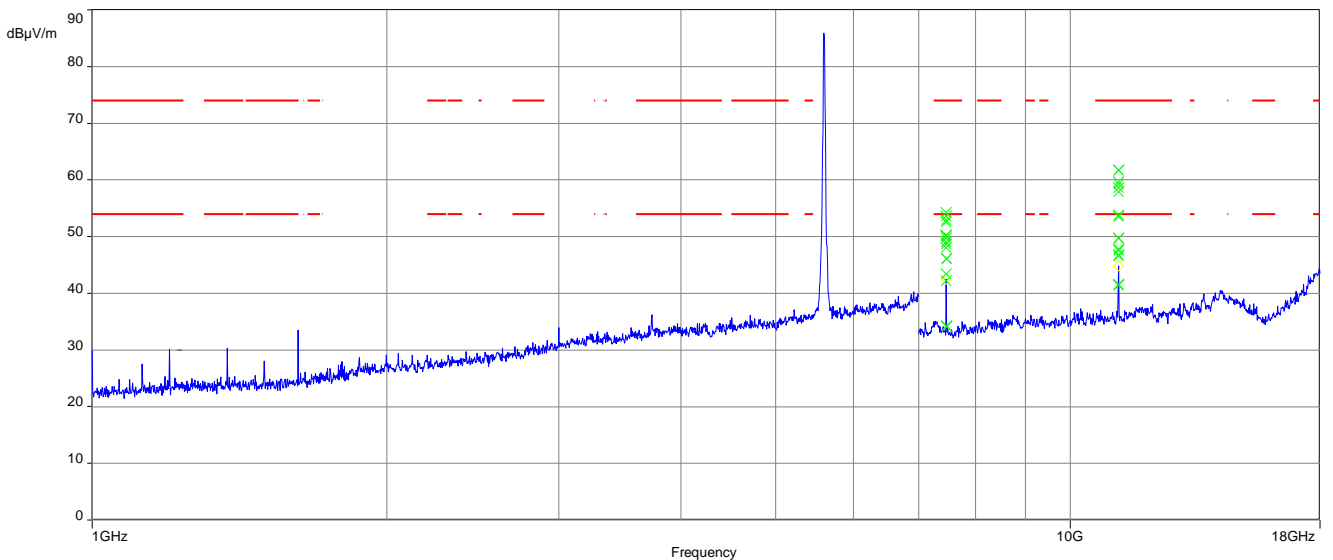
Plot 14: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



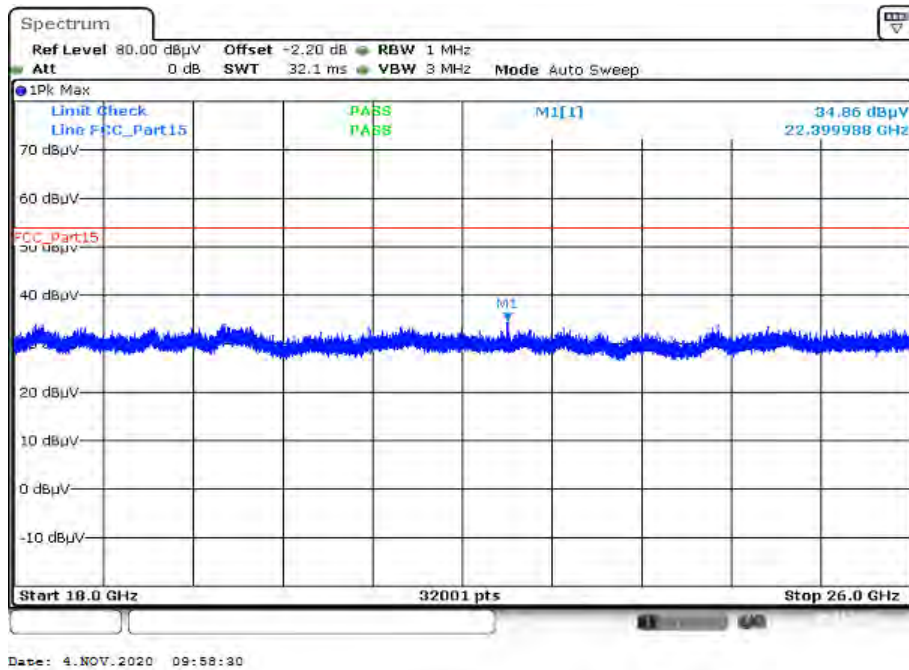
Plot 15: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



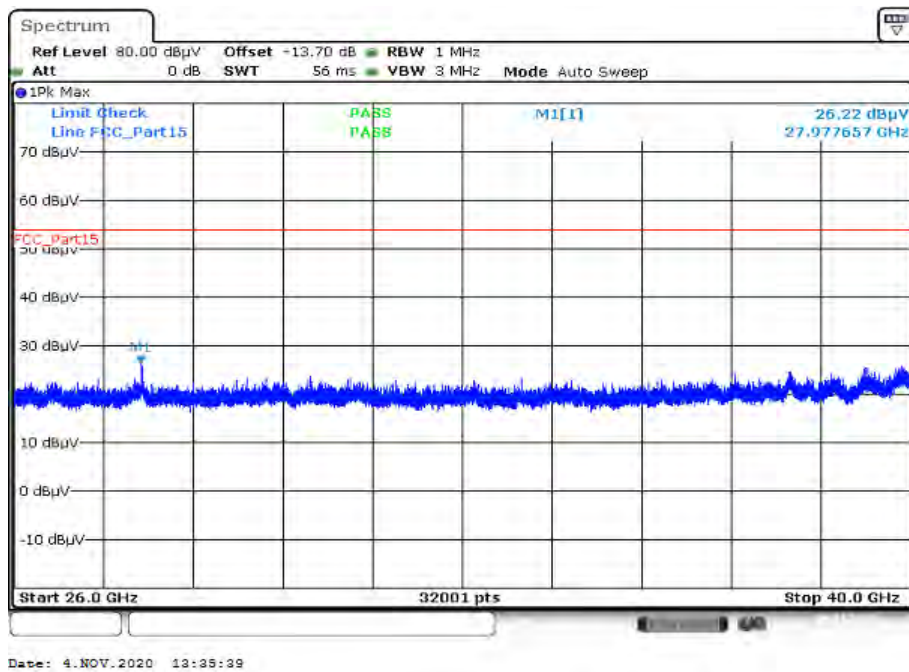
Plot 16: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2C; middle channel



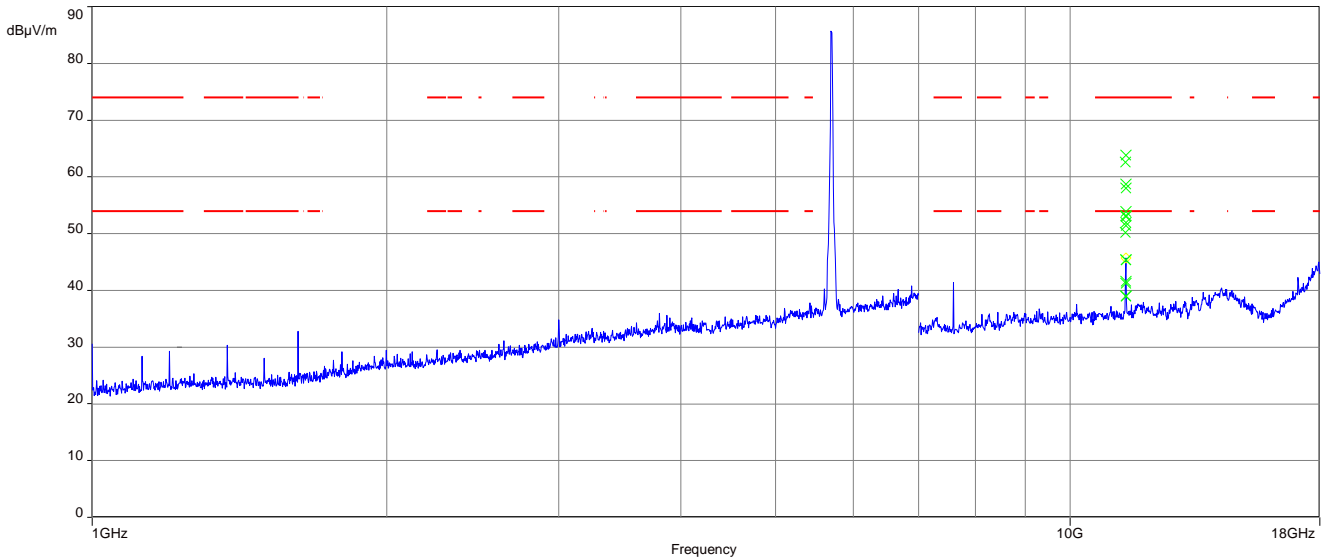
Plot 17: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2C; middle channel



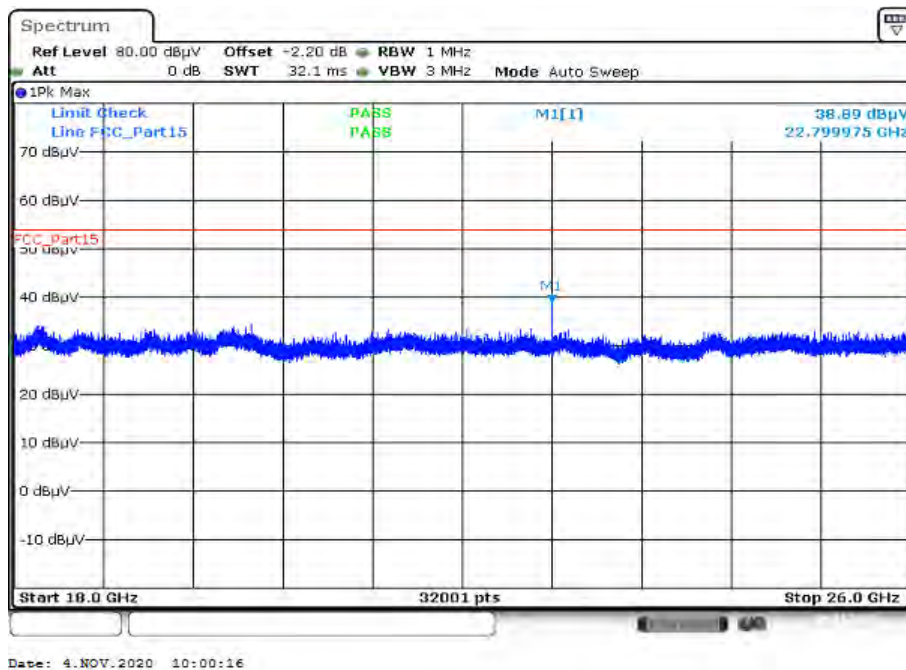
Plot 18: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2C; middle channel



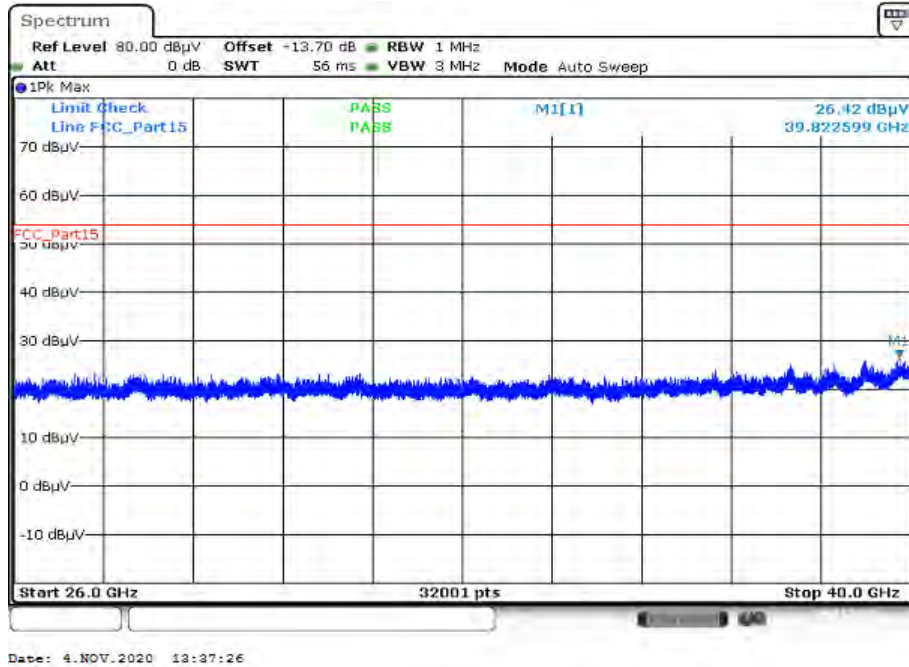
Plot 19: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2C; highest channel



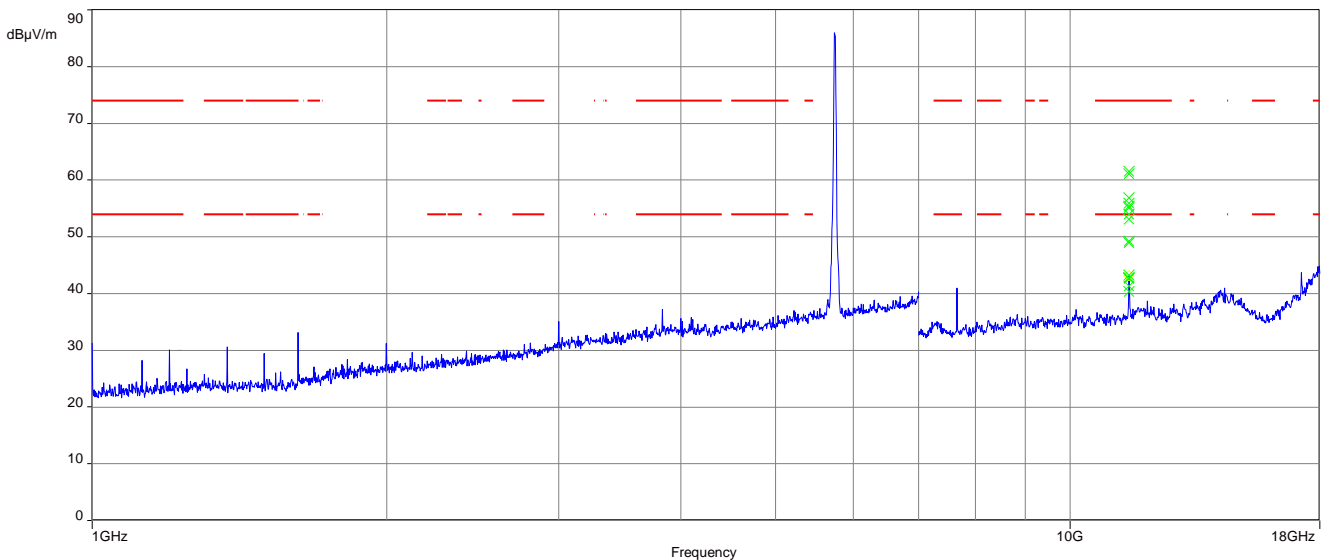
Plot 20: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2C; highest channel



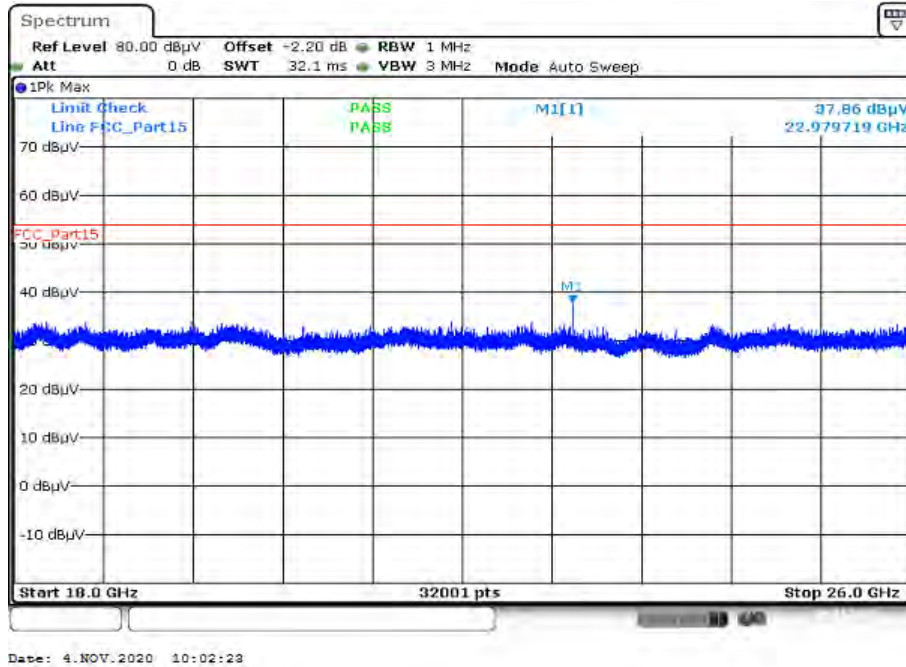
Plot 21: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2C; highest channel



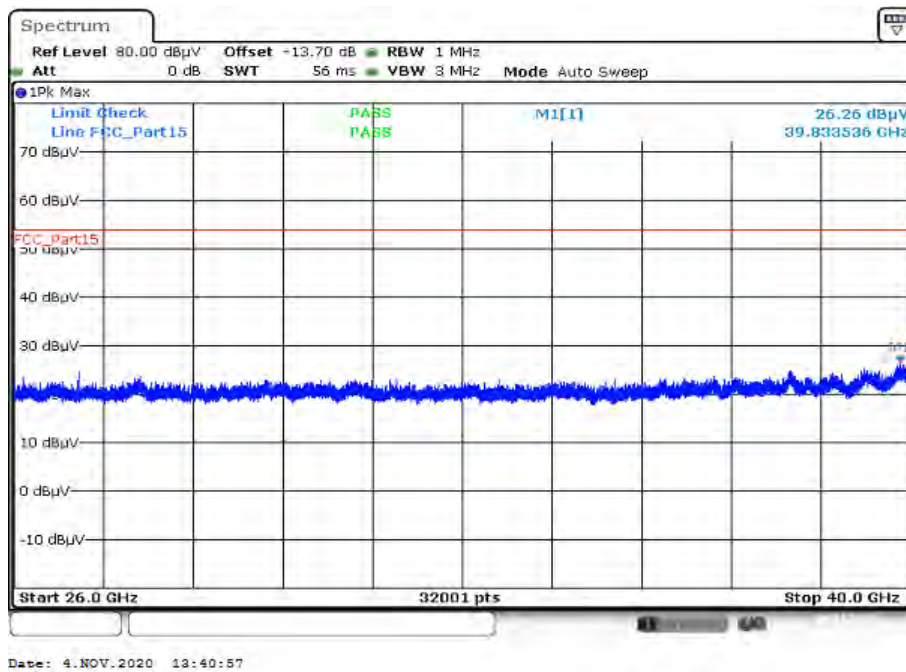
Plot 22: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-3; lowest channel



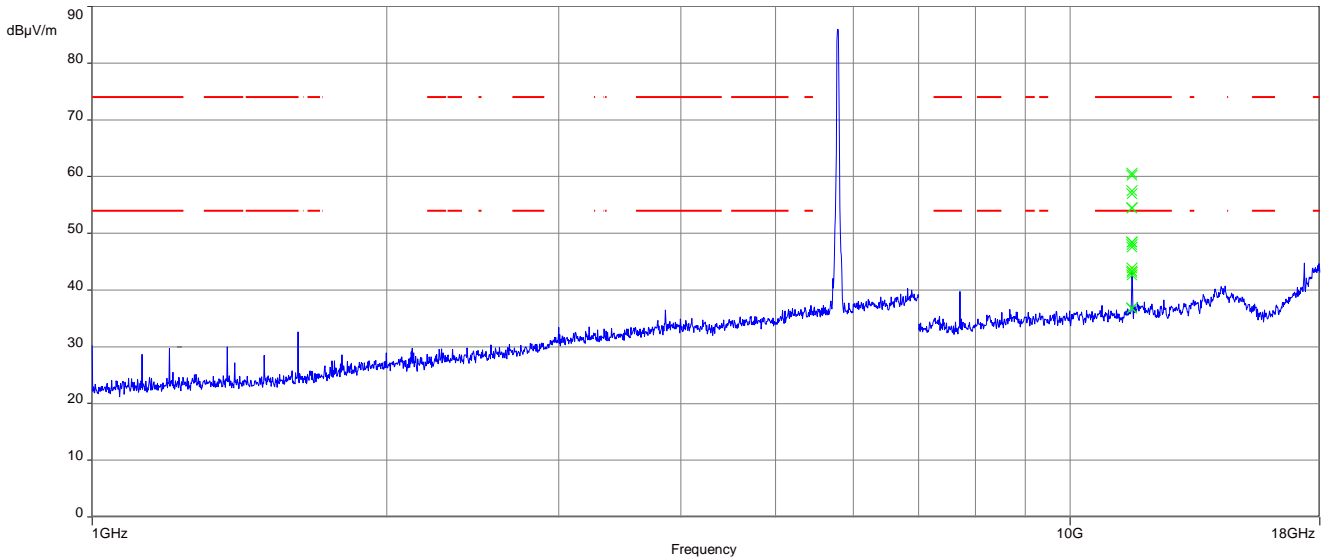
Plot 23: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-3; lowest channel



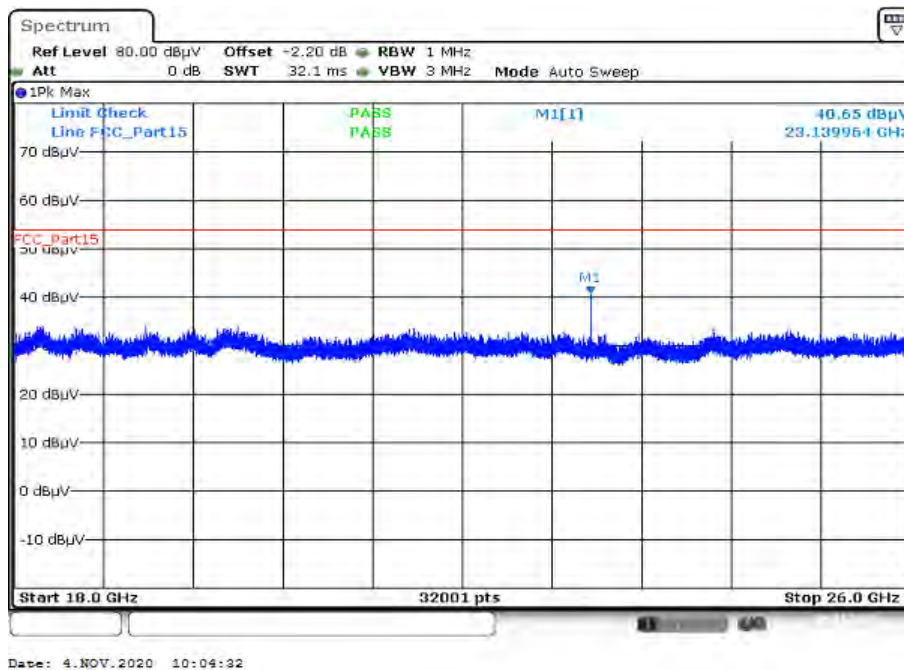
Plot 24: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-3; lowest channel



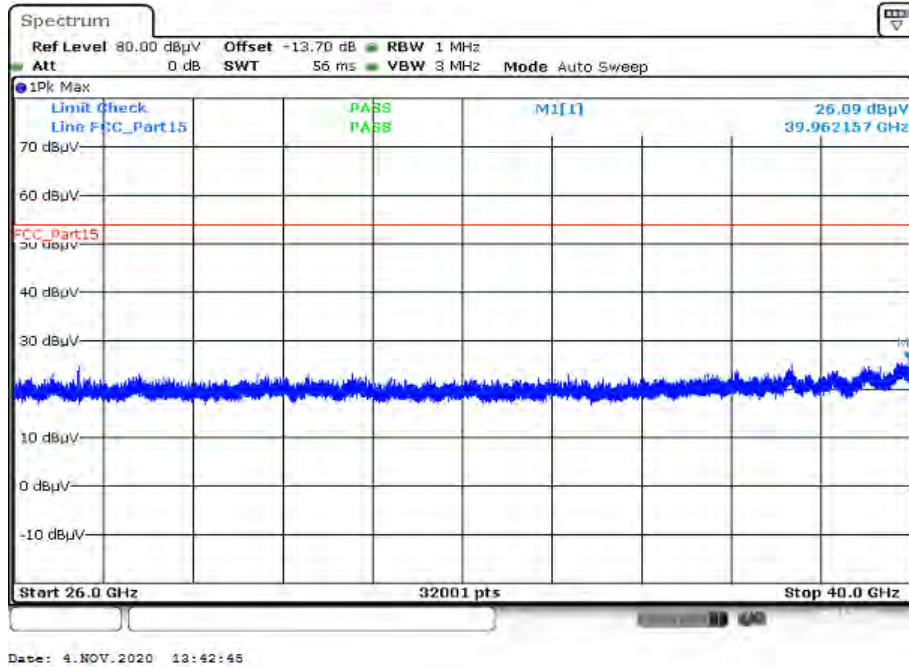
Plot 25: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-3; middle channel



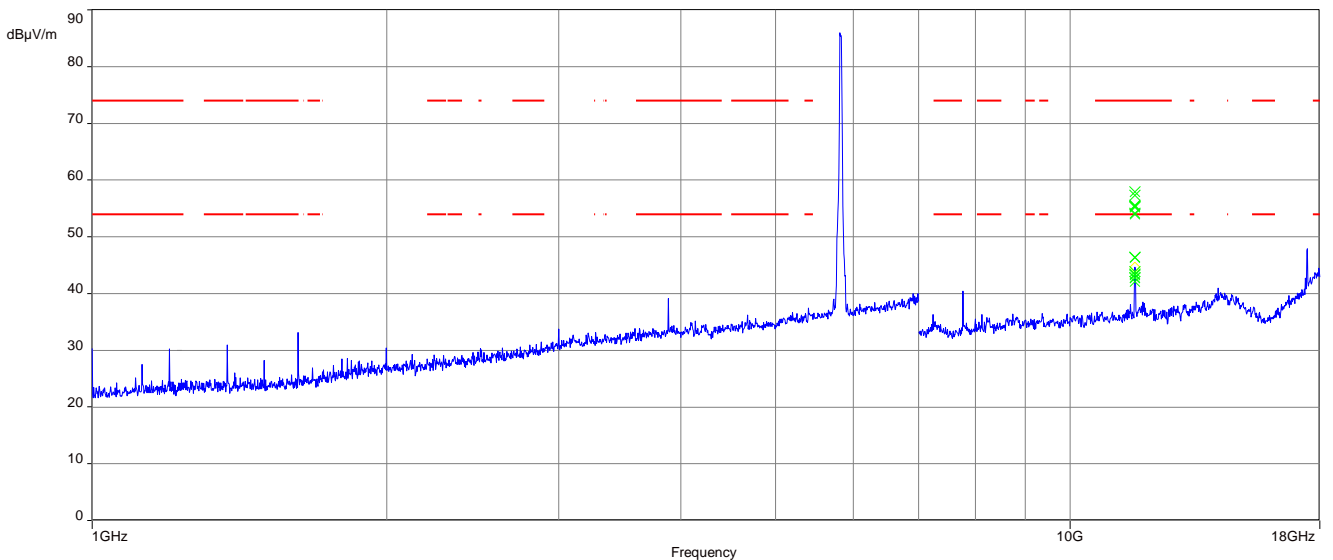
Plot 26: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-3; middle channel



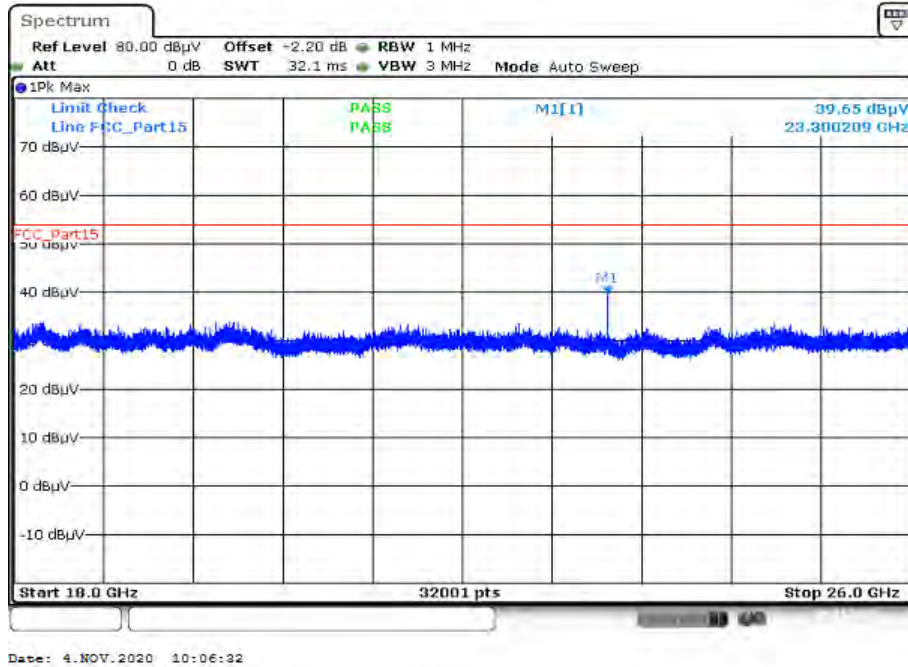
Plot 27: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-3; middle channel



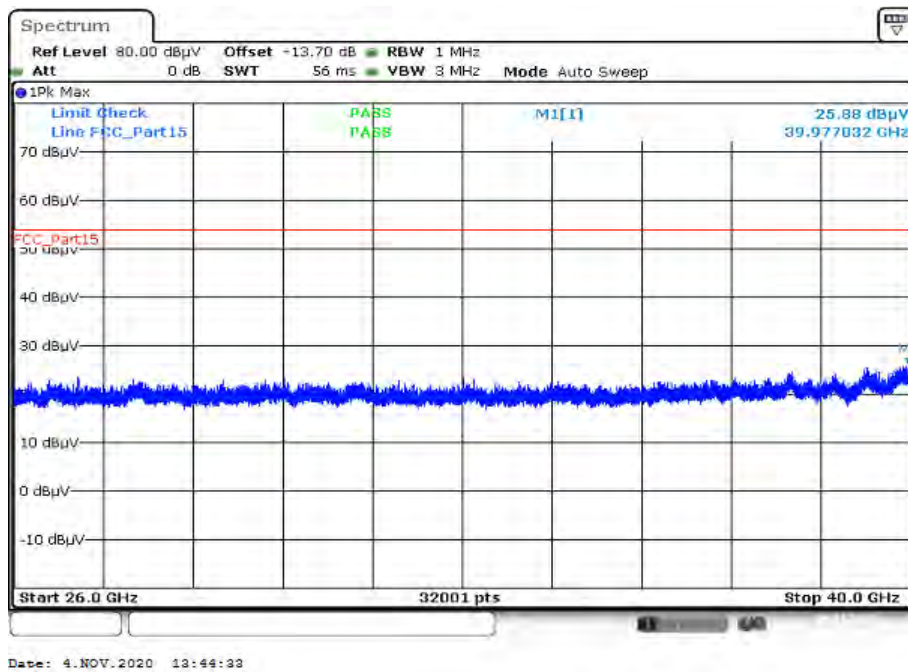
Plot 28: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-3; highest channel



Plot 29: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-3; highest channel

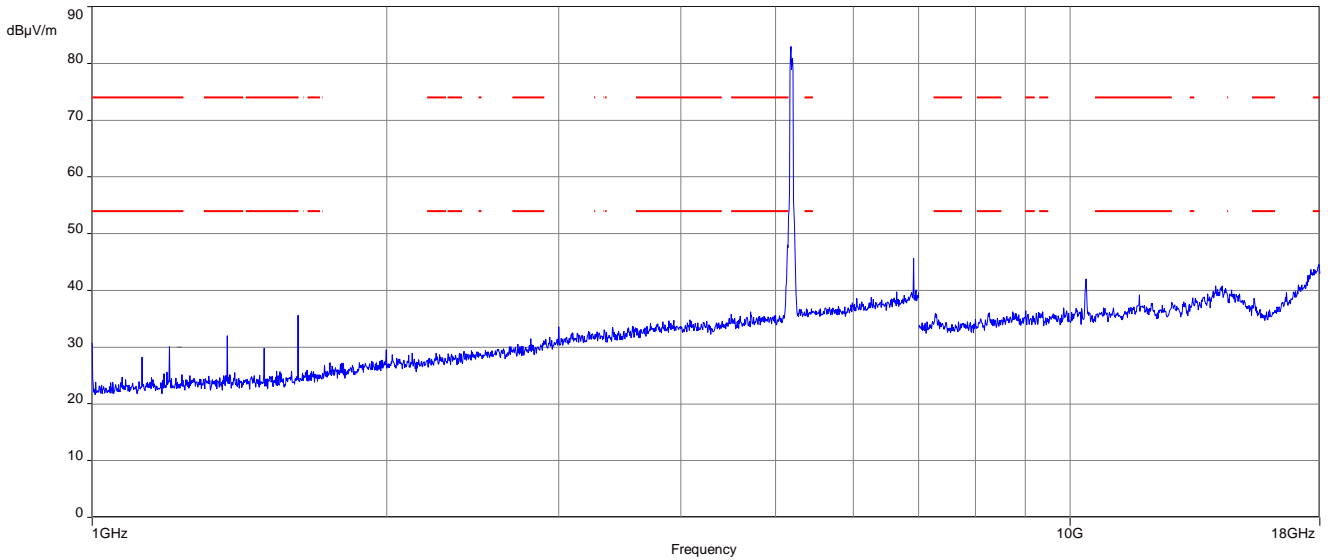


Plot 30: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-3; highest channel

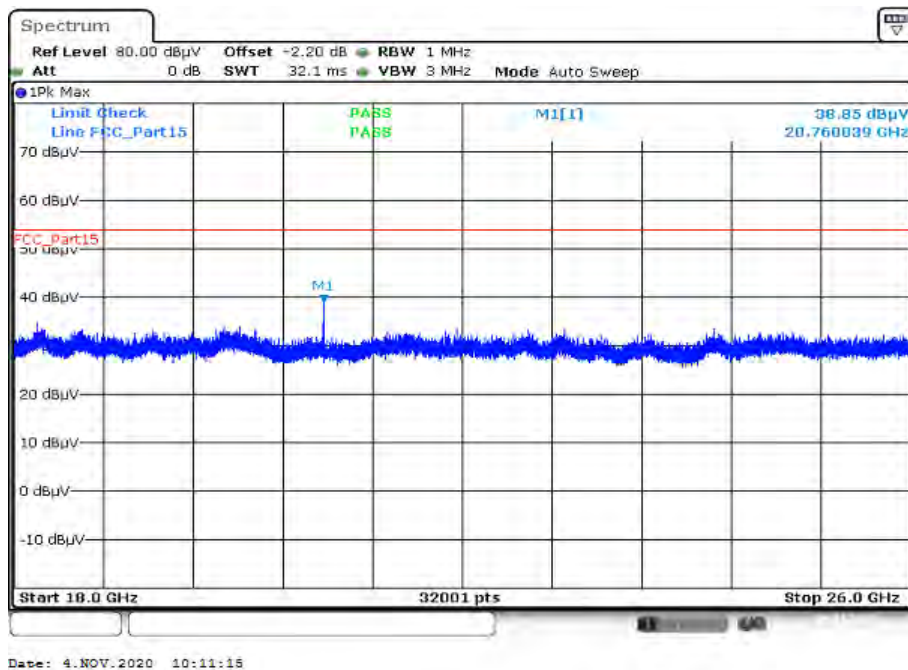


Plots: 40 MHz channel bandwidth (ANT-DB1-RAF-RPS)

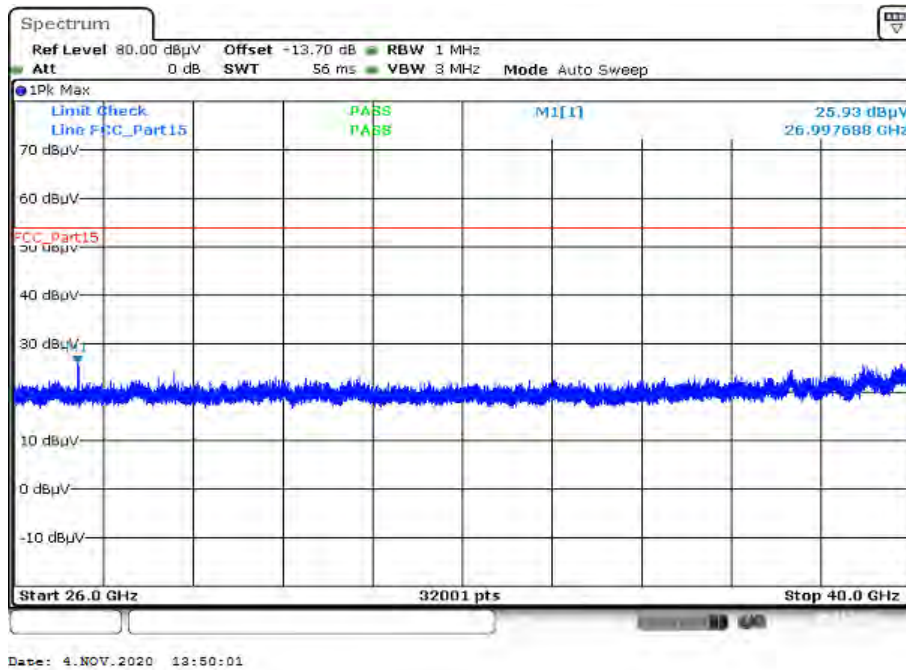
Plot 28: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-1; lowest channel



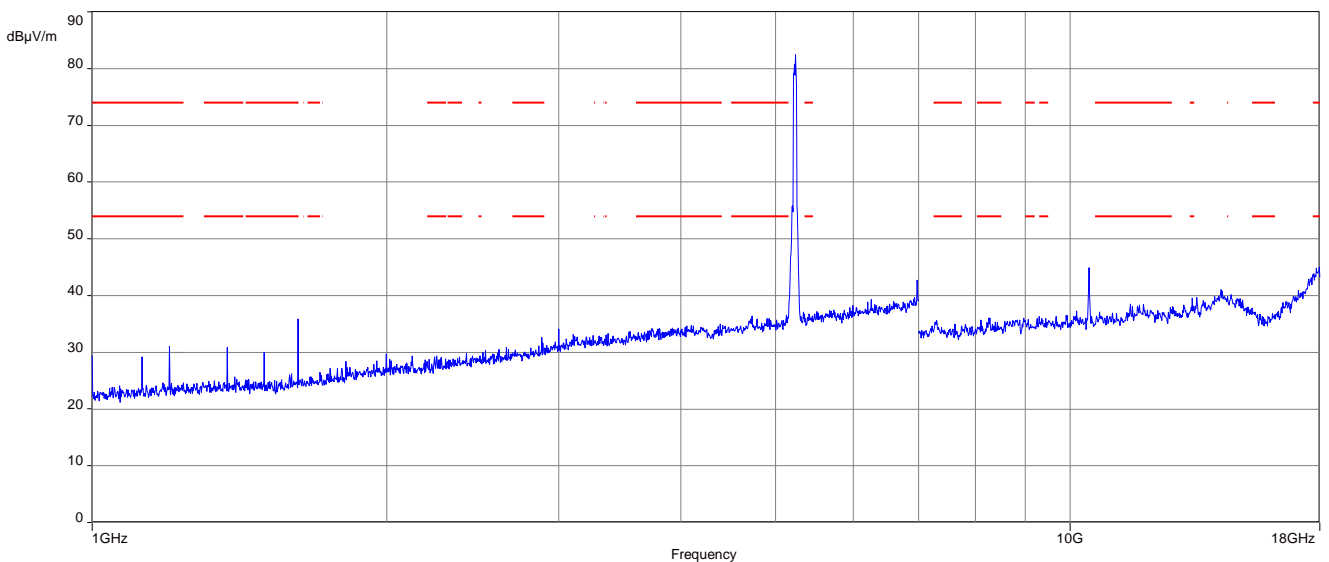
Plot 29: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-1; lowest channel



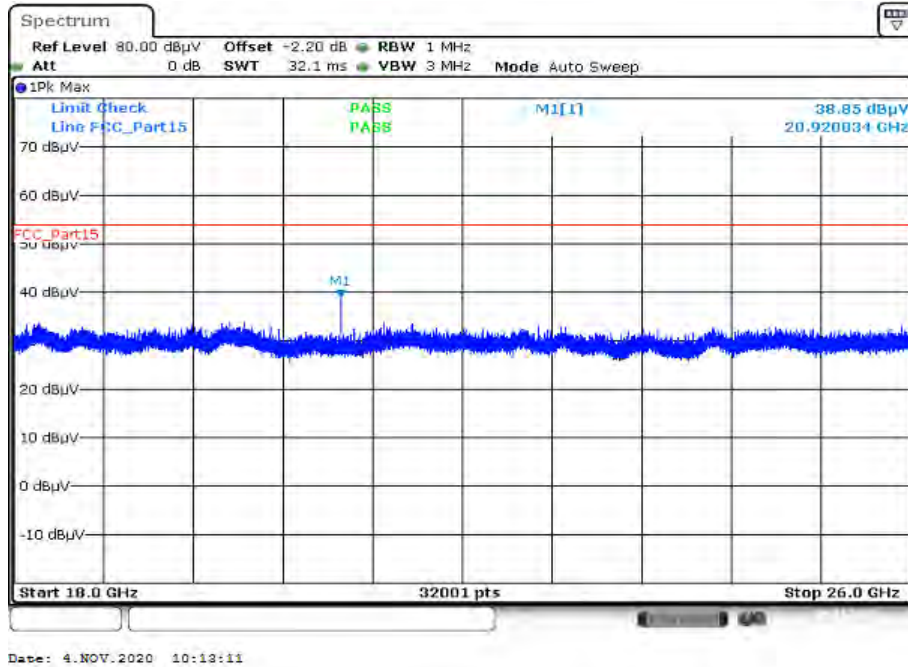
Plot 30: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-1; lowest channel



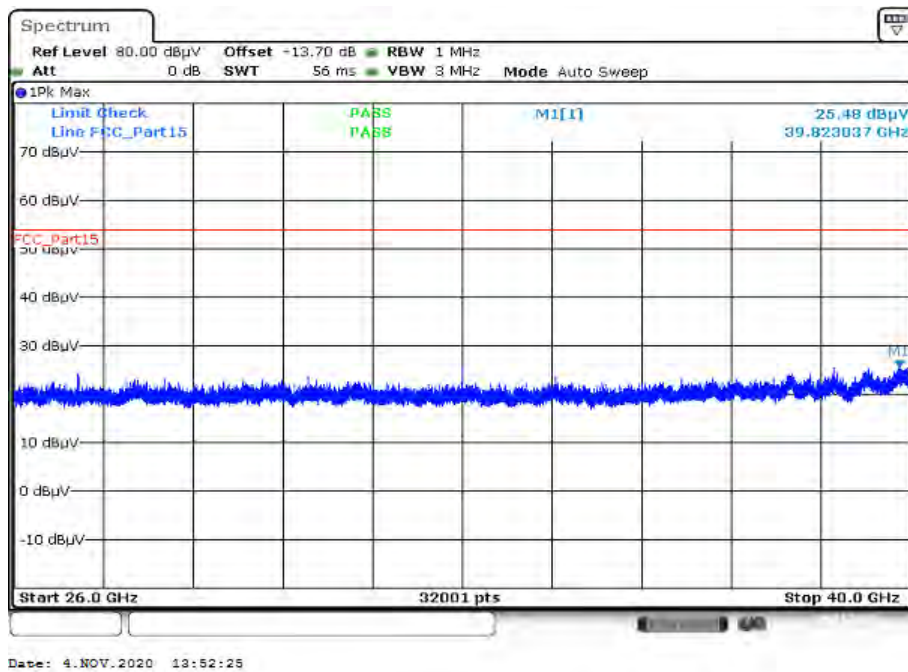
Plot 31: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-1; highest channel



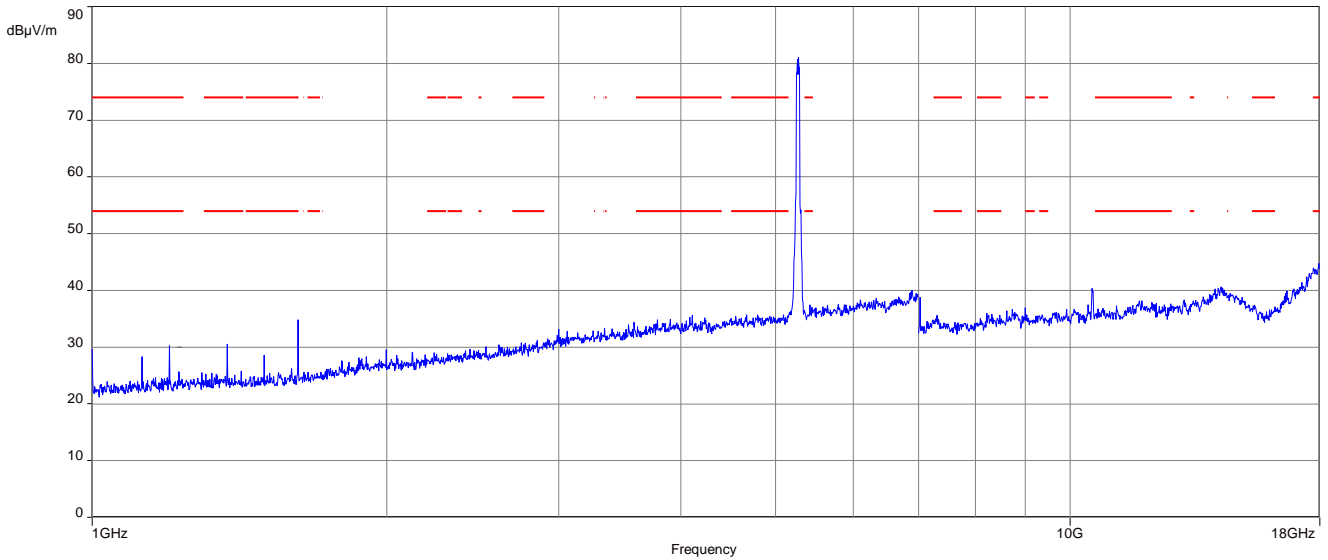
Plot 32: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-1; highest channel



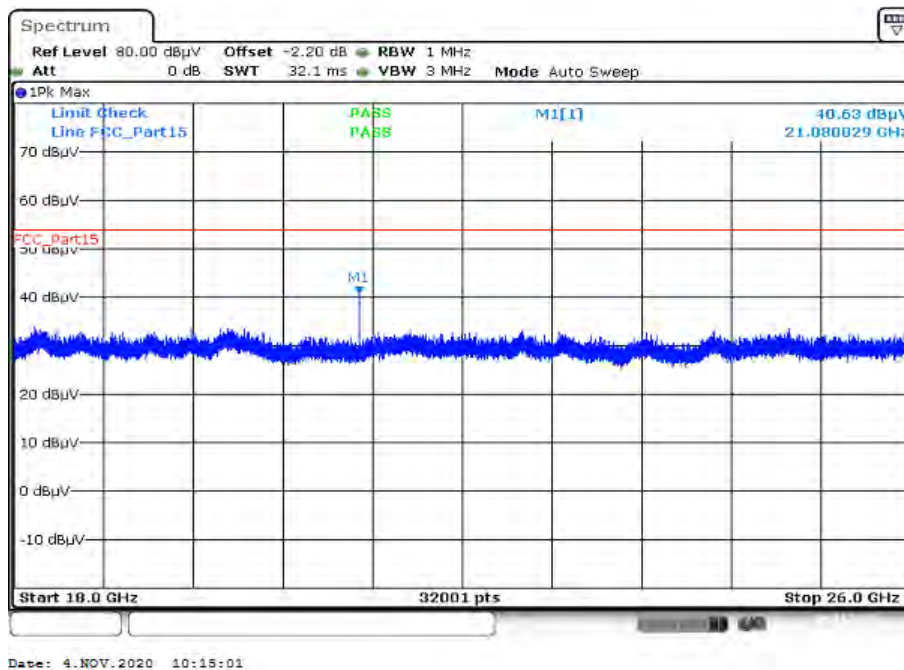
Plot 33: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-1; highest channel



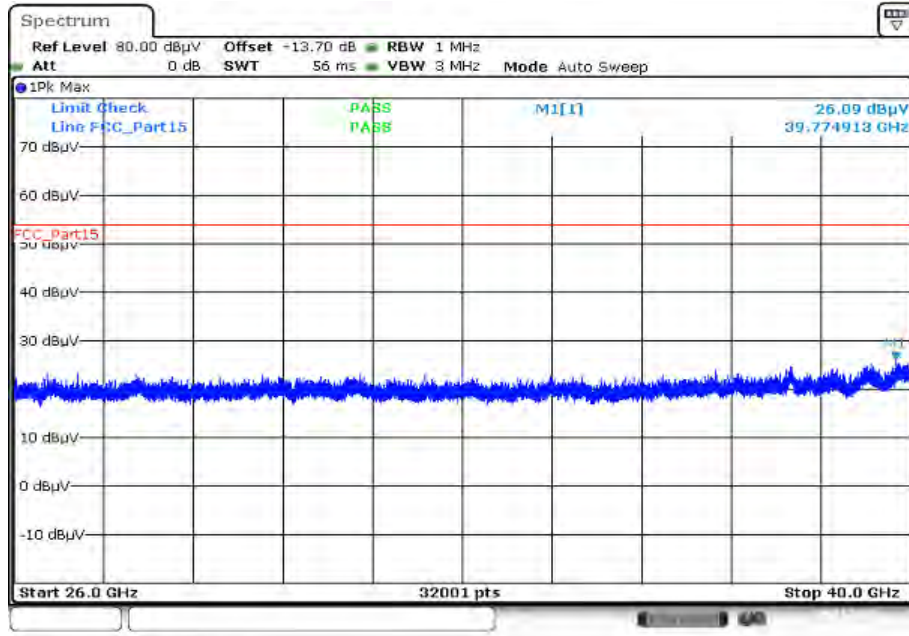
Plot 34: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2A; lowest channel



Plot 35: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2A; lowest channel

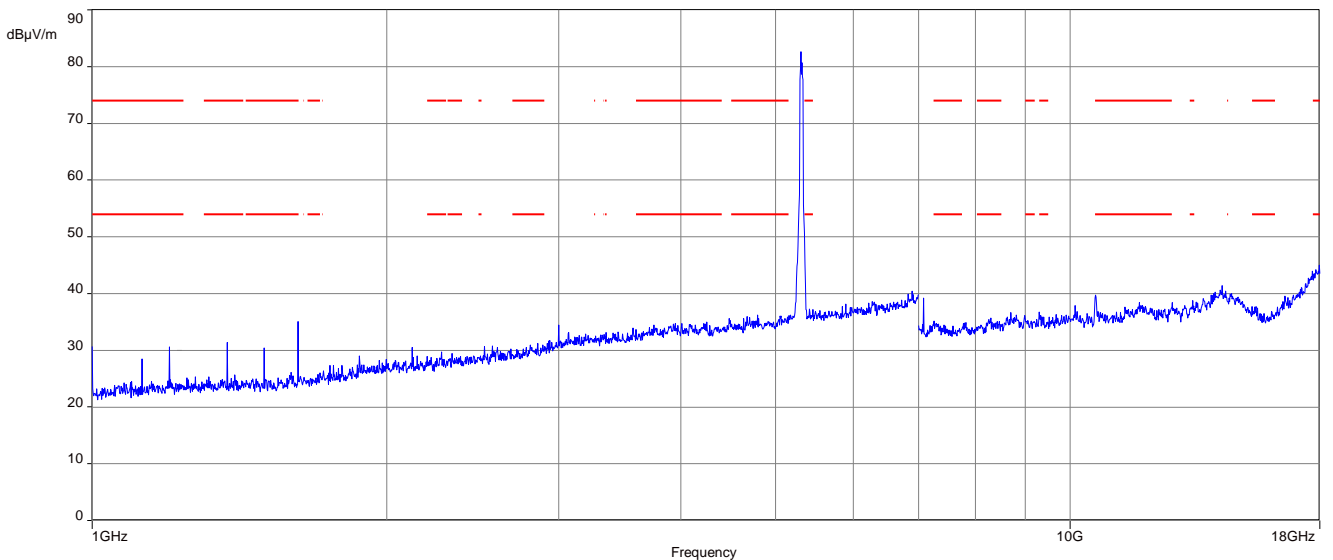


Plot 36: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2A; lowest channel

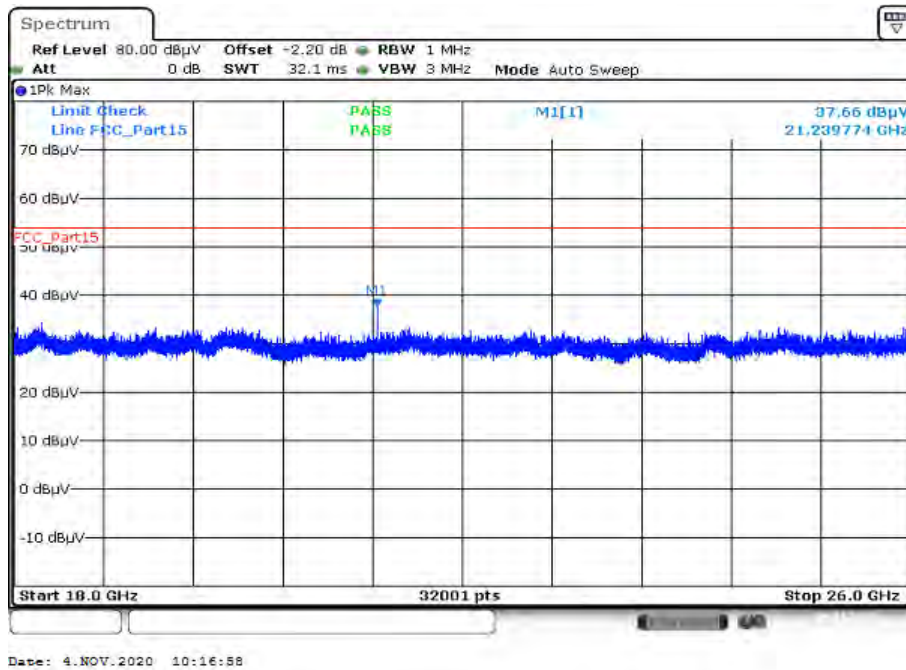


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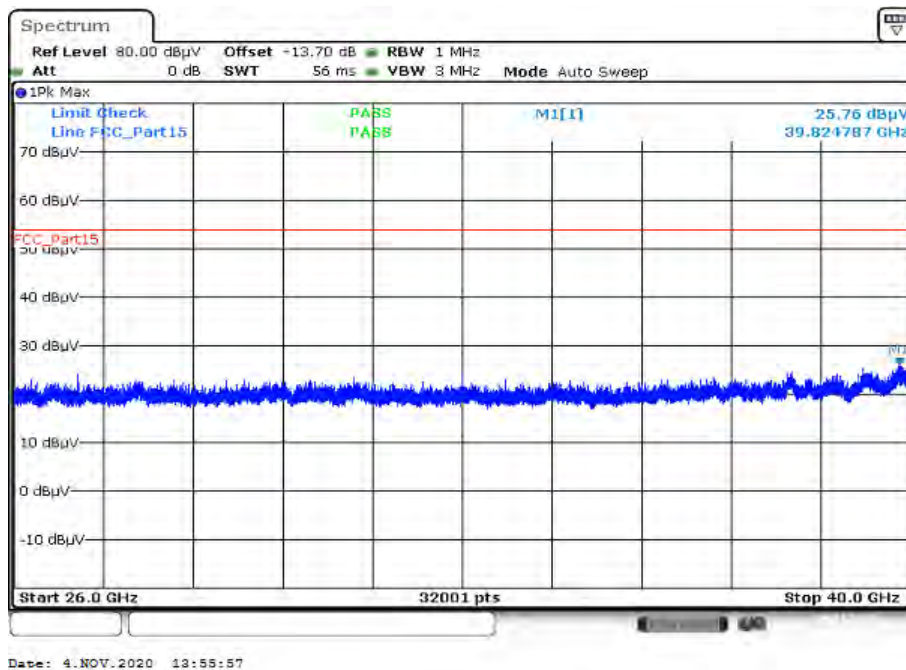
Plot 37: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2A; highest channel



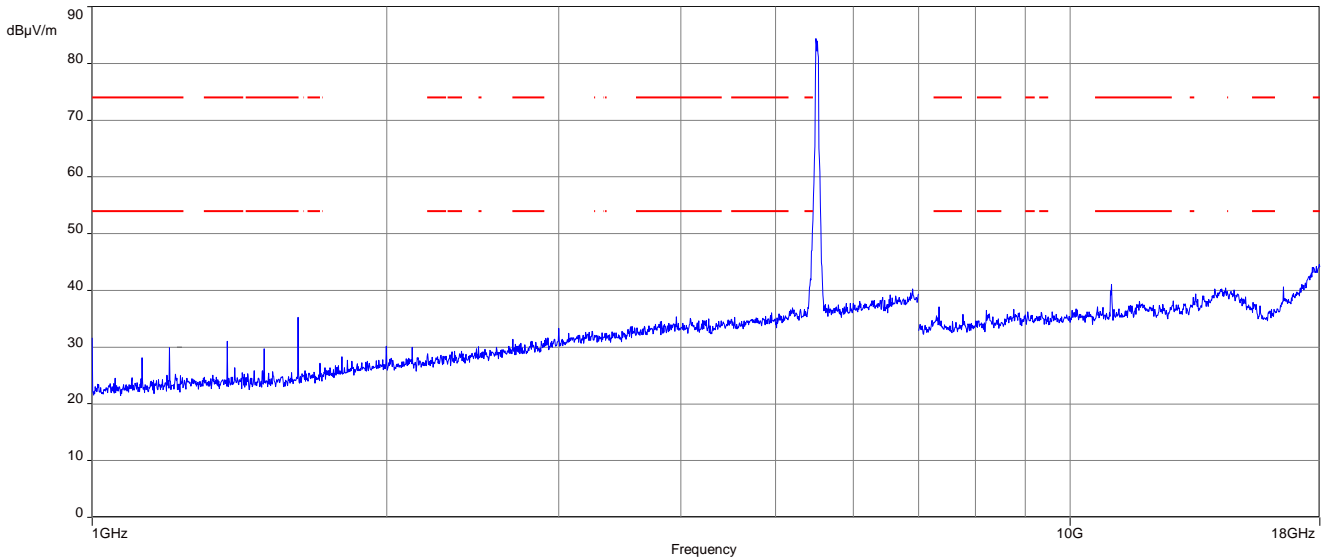
Plot 38: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2A; highest channel



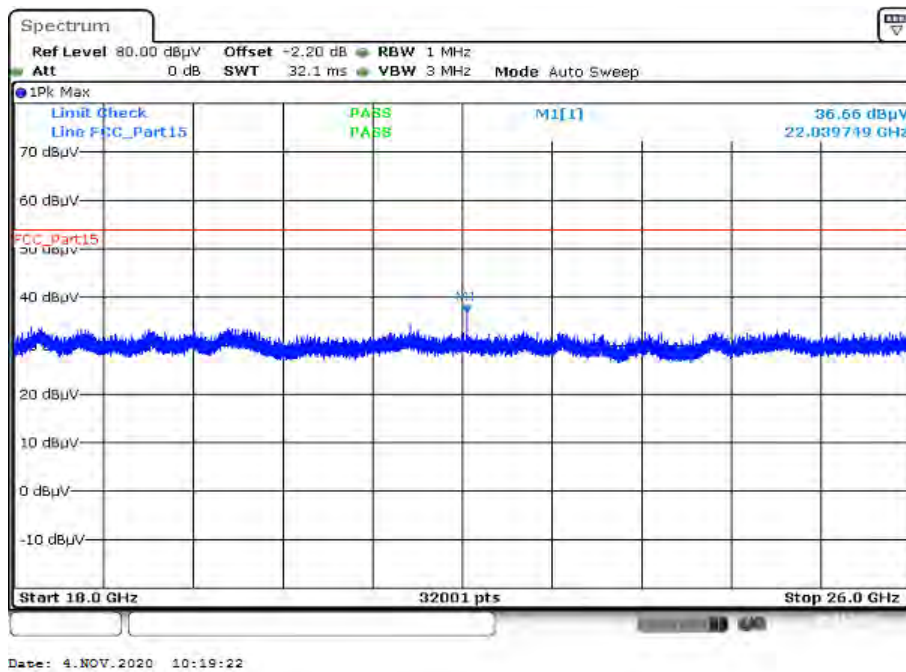
Plot 39: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2A; highest channel



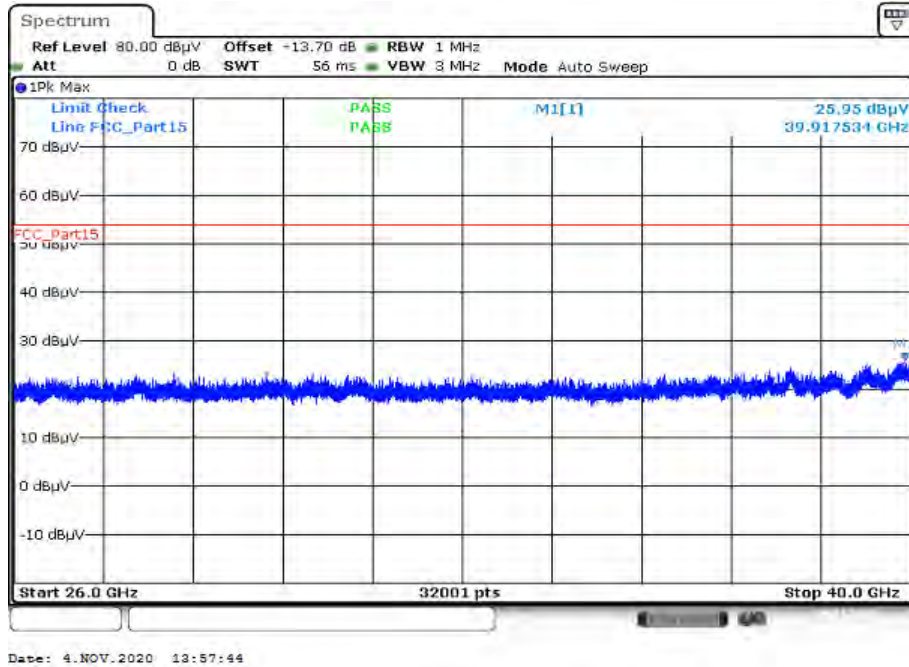
Plot 40: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



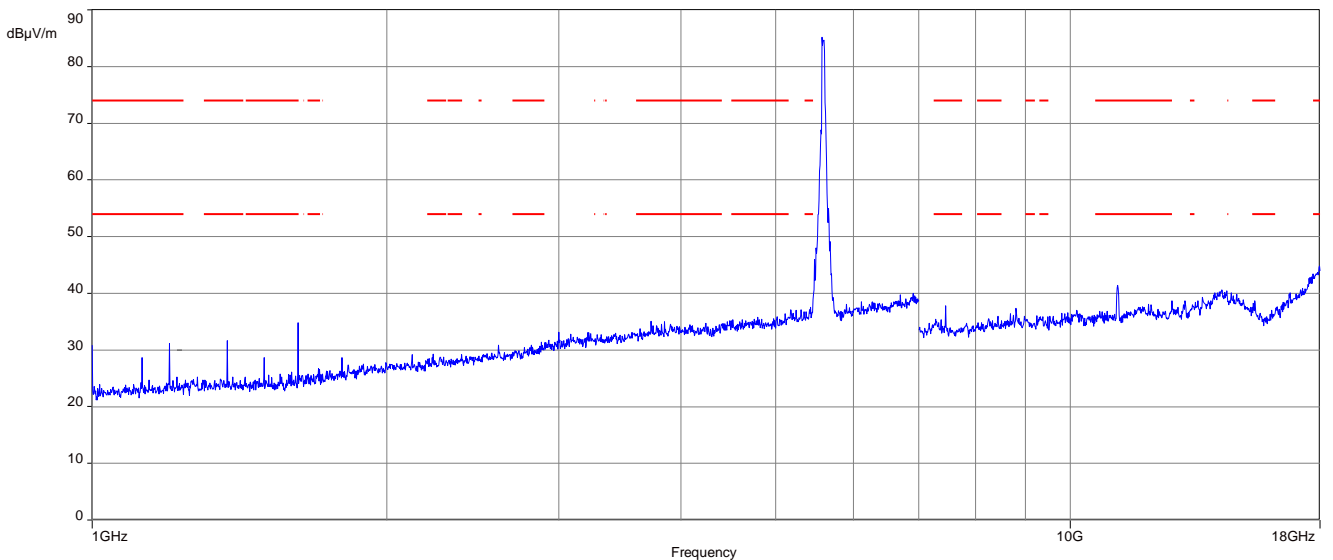
Plot 41: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



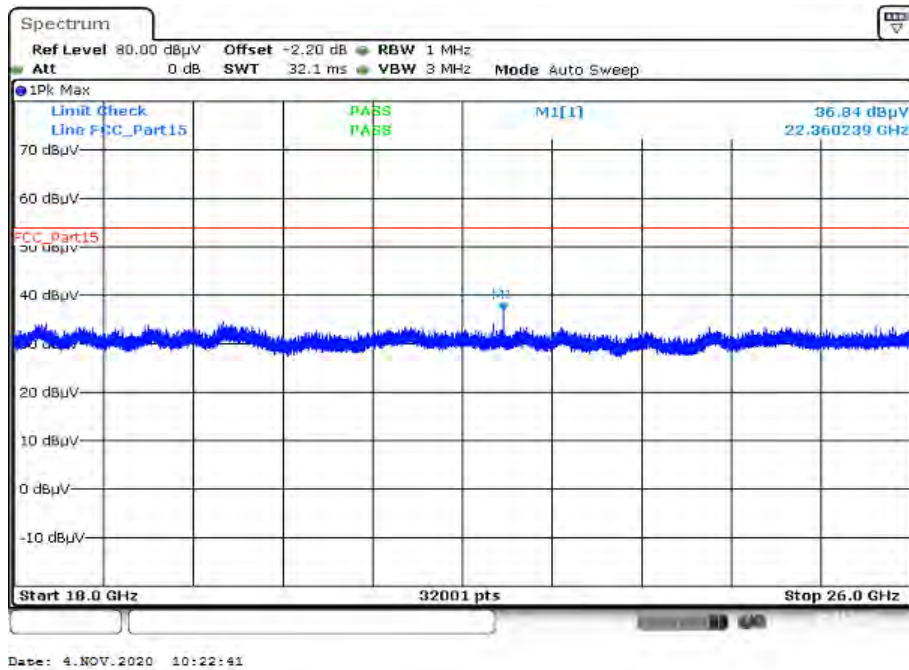
Plot 42: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



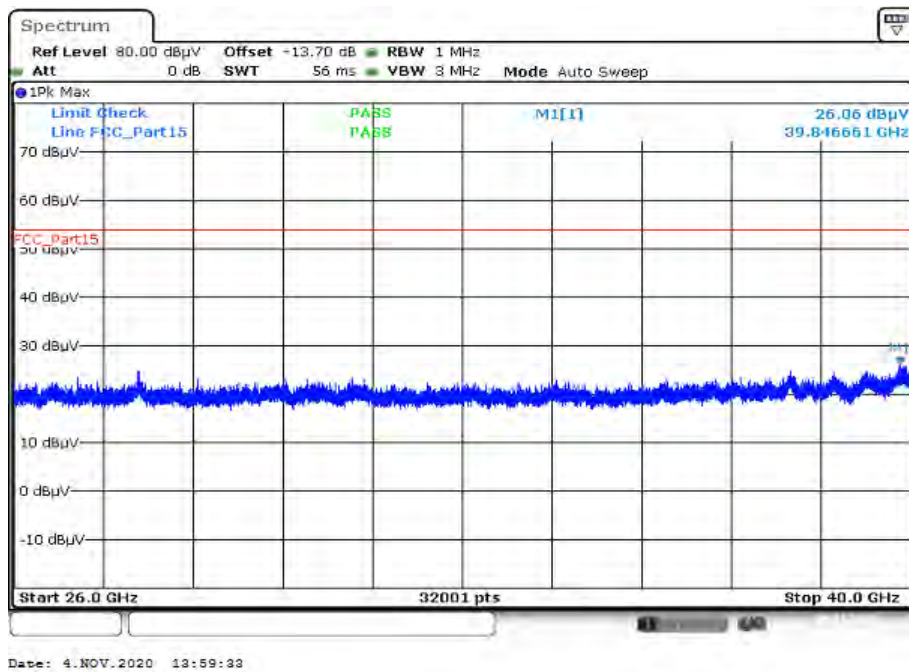
Plot 43: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2C; middle channel



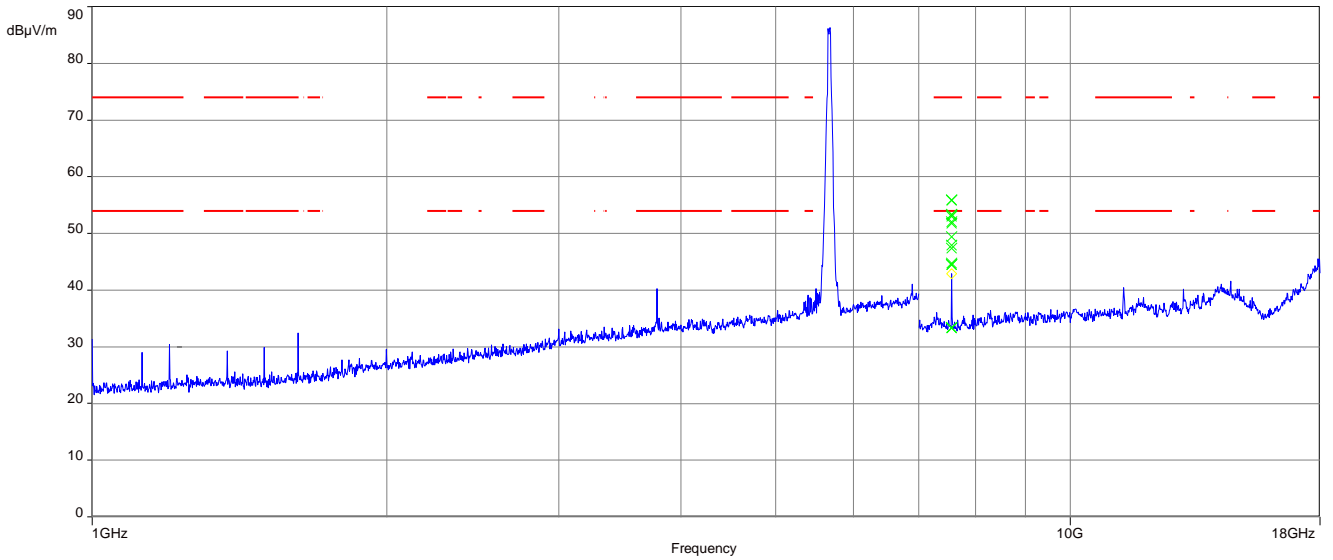
Plot 44: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2C; middle channel



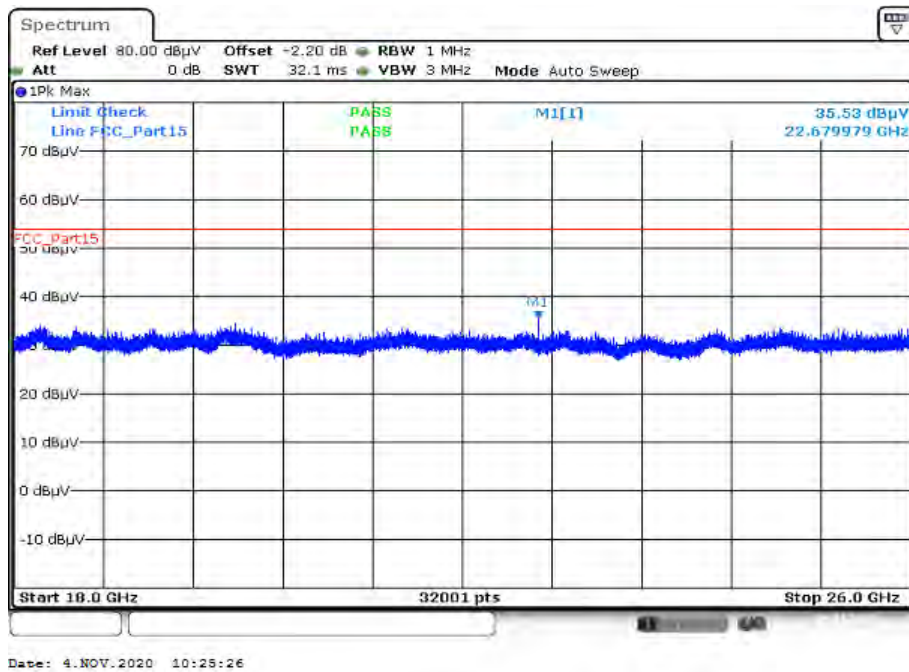
Plot 45: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2C; middle channel



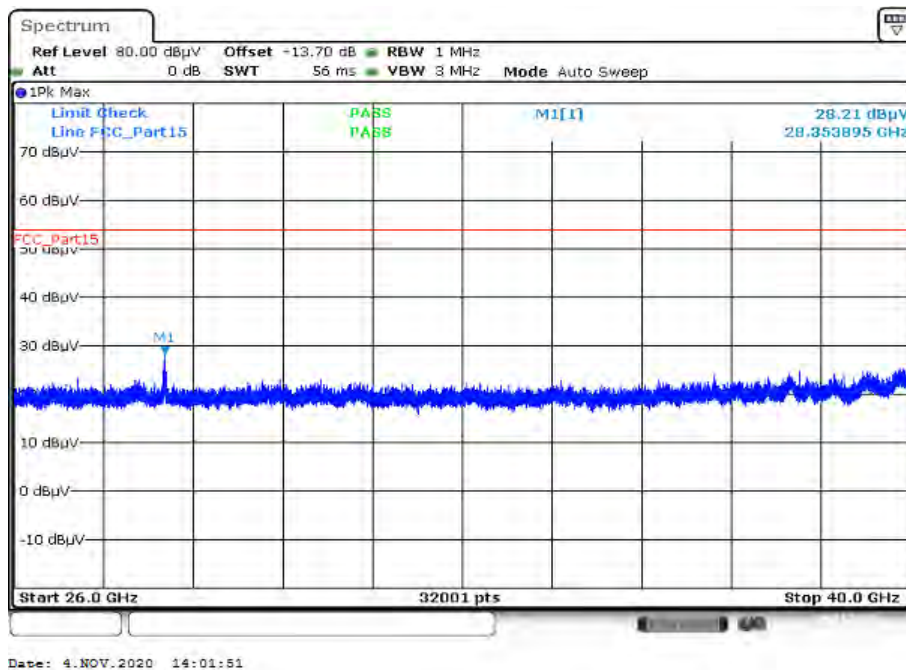
Plot 46: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2C; highest channel



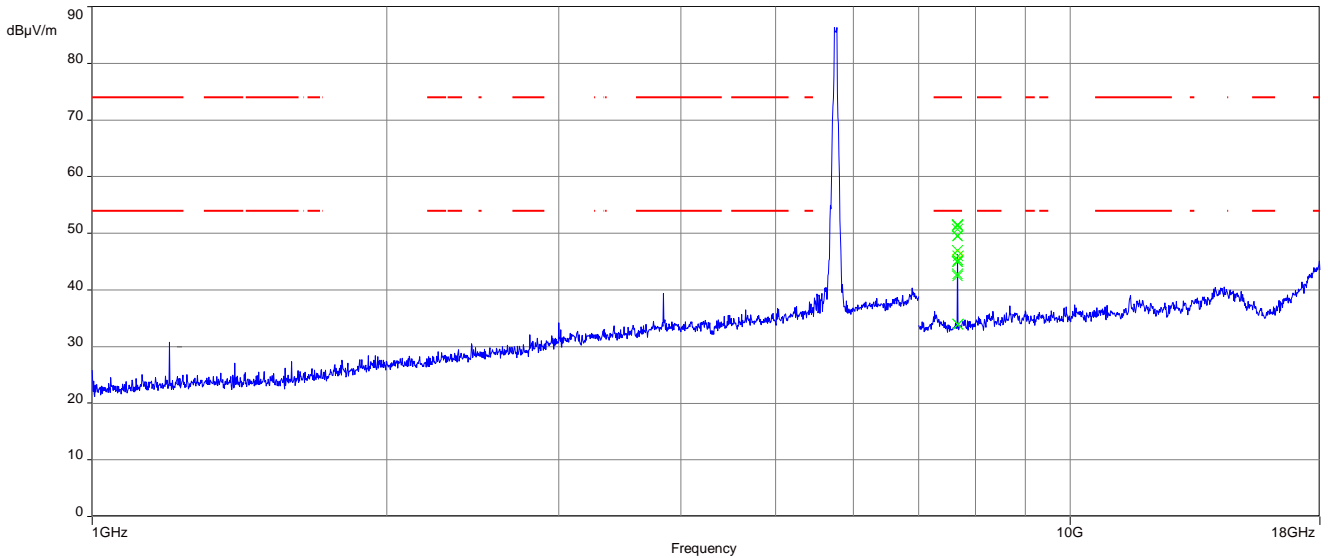
Plot 47: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2C; highest channel



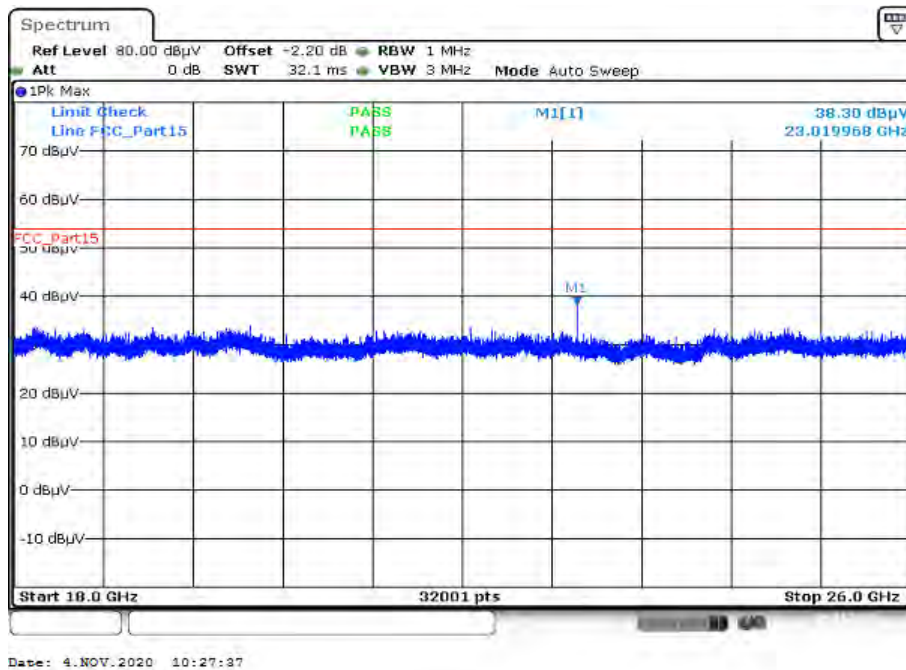
Plot 48: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2C; highest channel



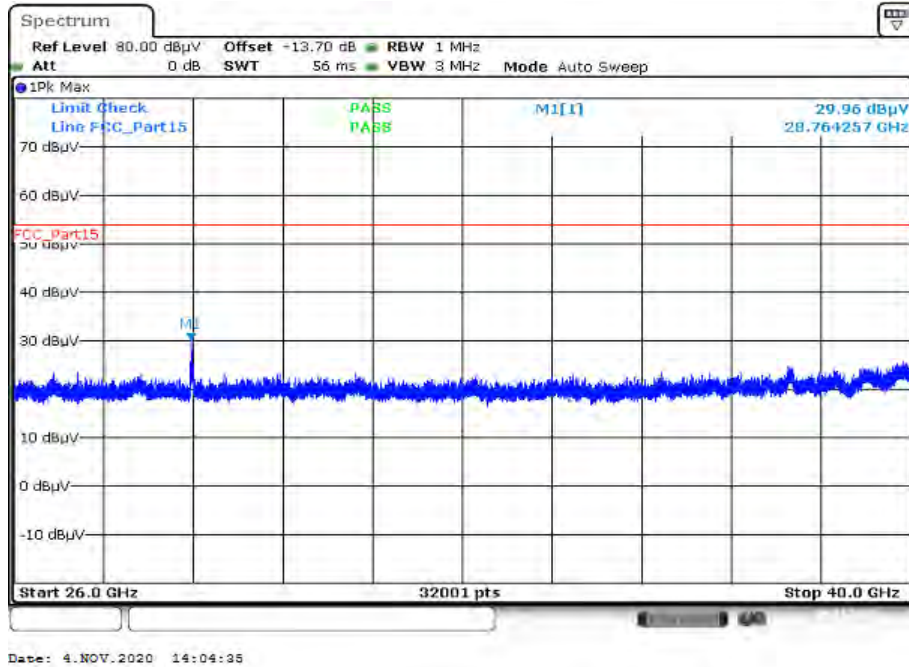
Plot 49: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-3; lowest channel



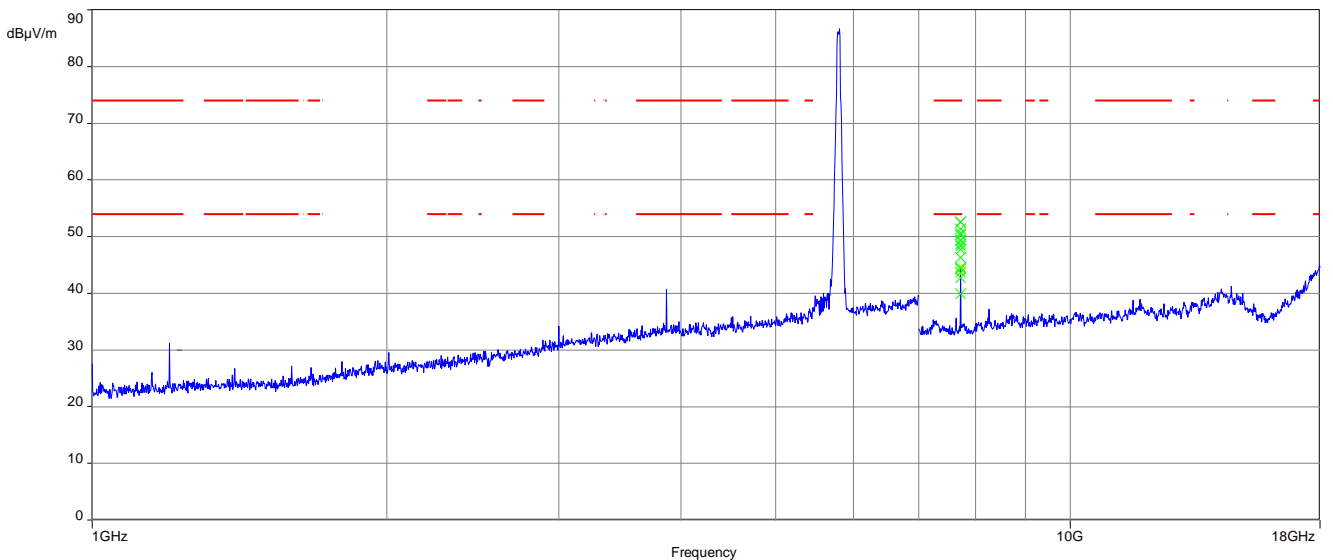
Plot 50: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-3; lowest channel



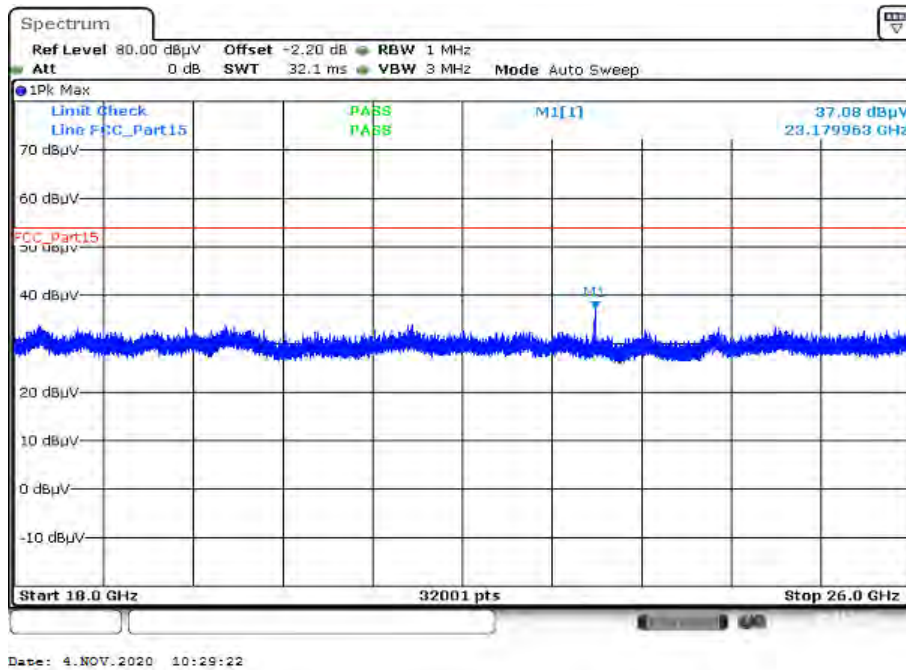
Plot 51: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-3; lowest channel



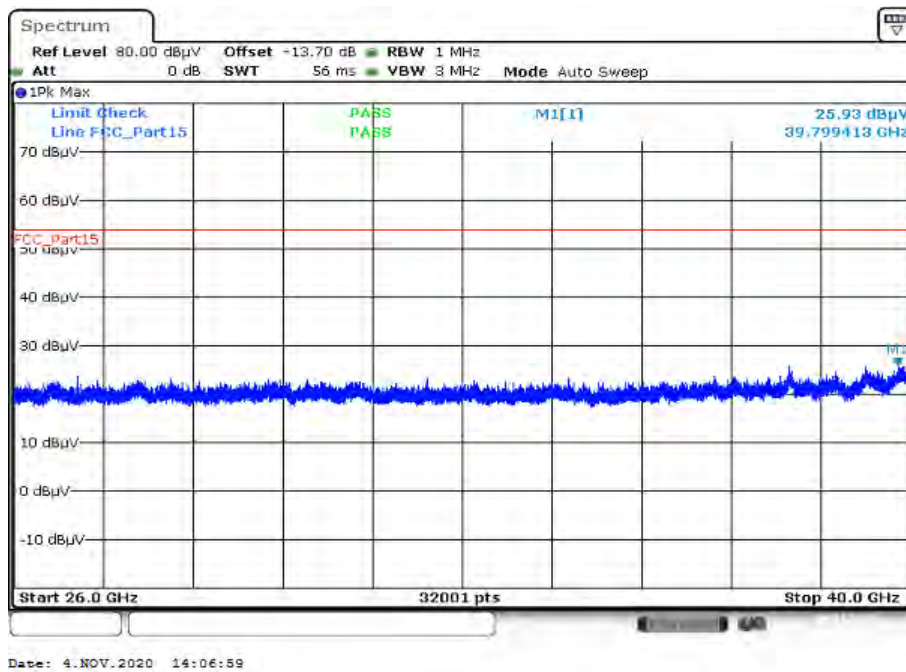
Plot 52: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-3; highest channel



Plot 53: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-3; highest channel

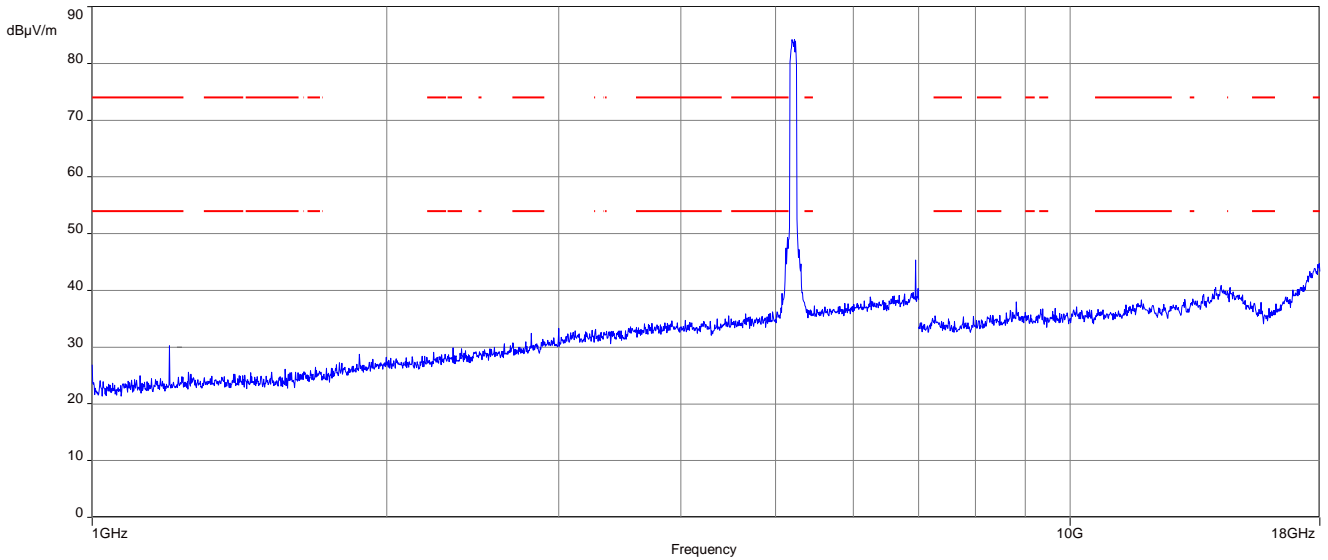


Plot 54: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-3; highest channel

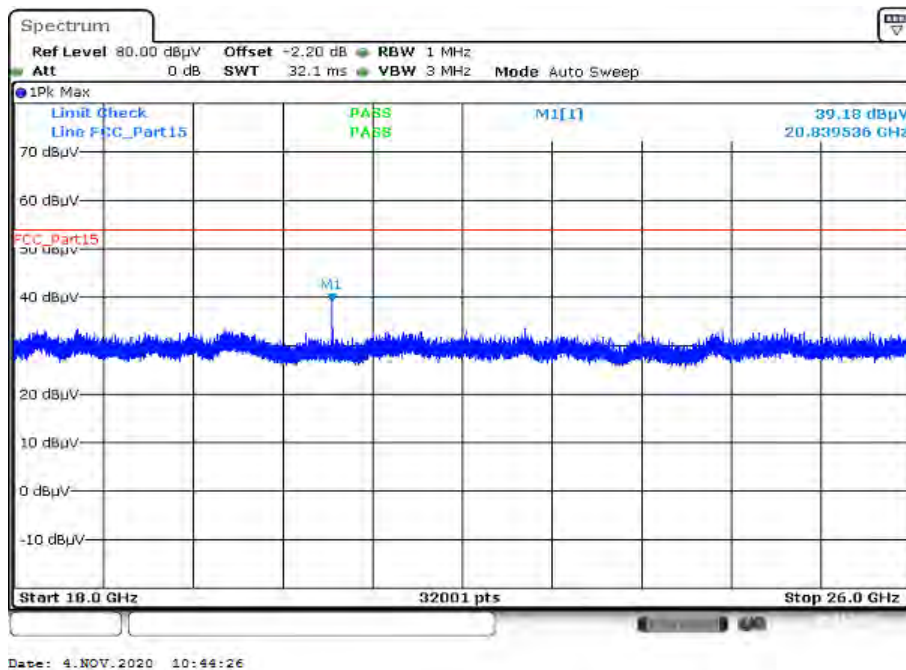


Plots: 80 MHz channel bandwidth (ANT-DB1-RAF-RPS)

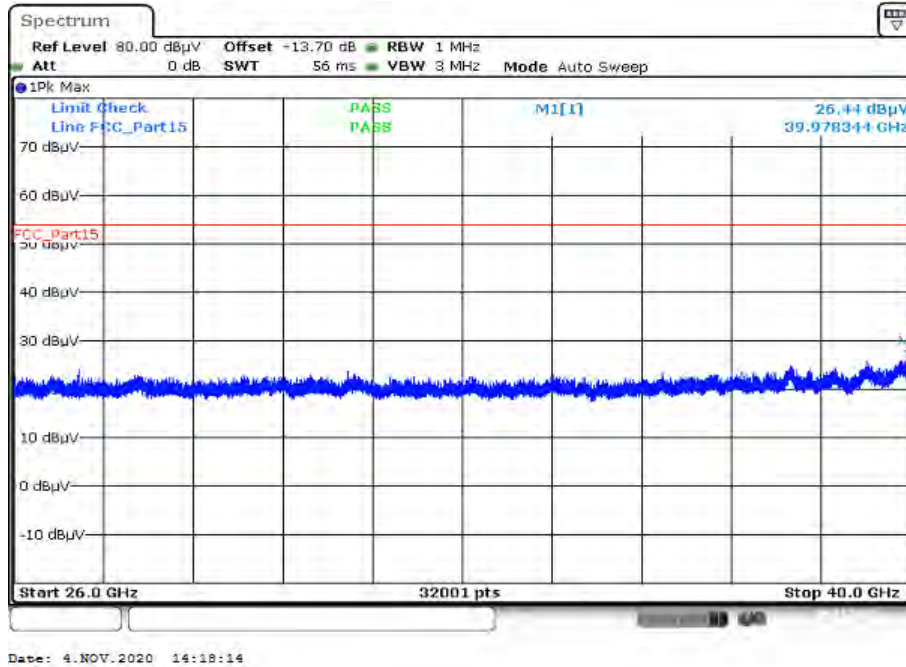
Plot 16: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-1; middle channel



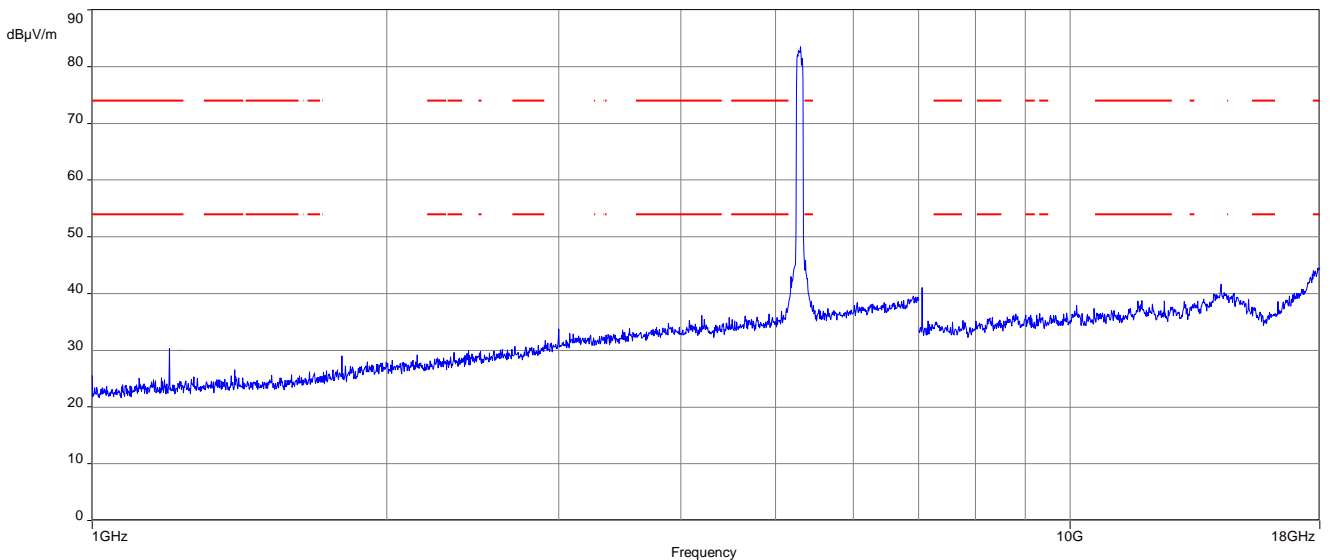
Plot 17: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-1; middle channel



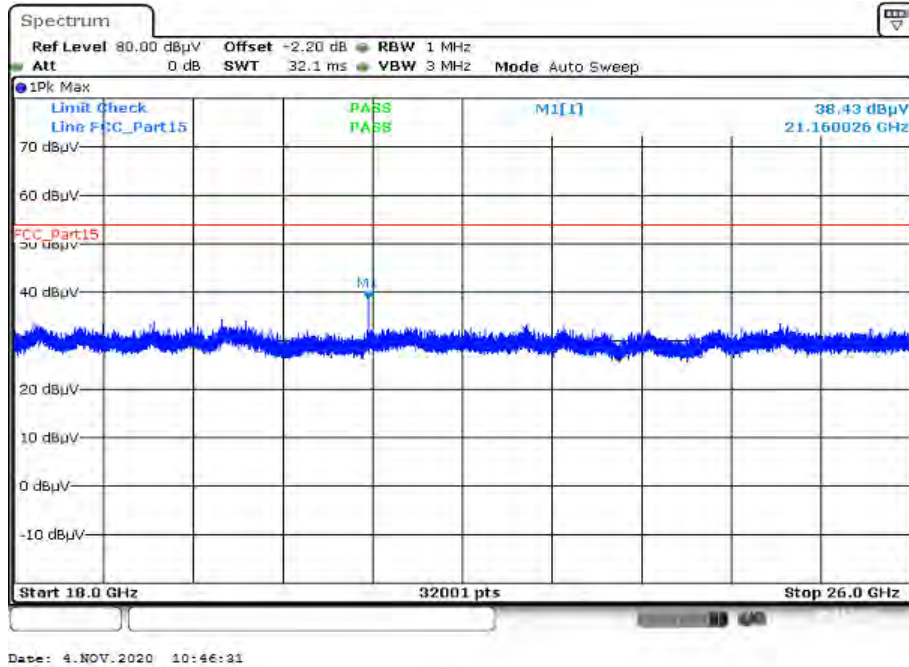
Plot 18: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-1; middle channel



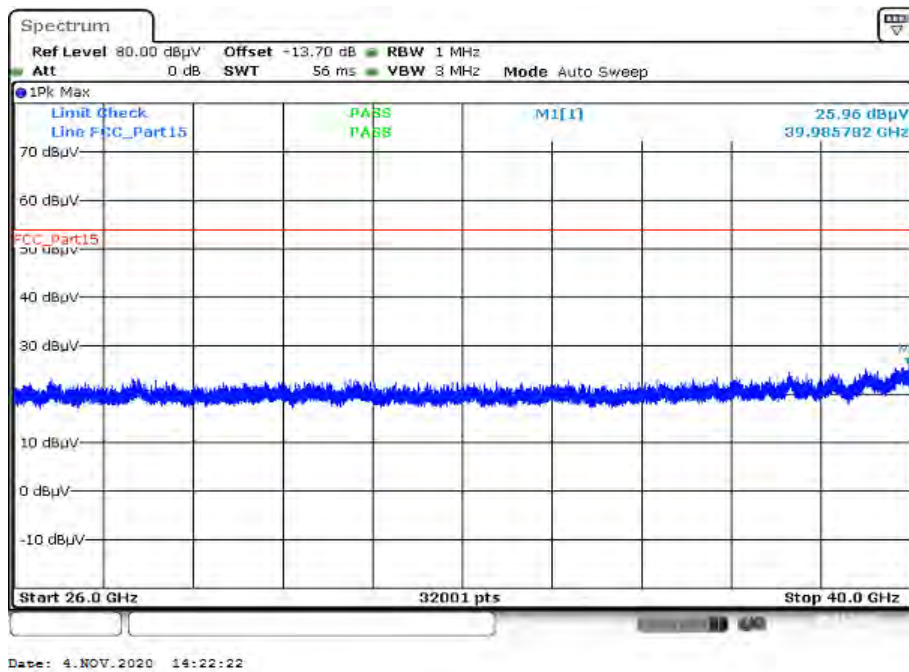
Plot 19: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2A; middle channel



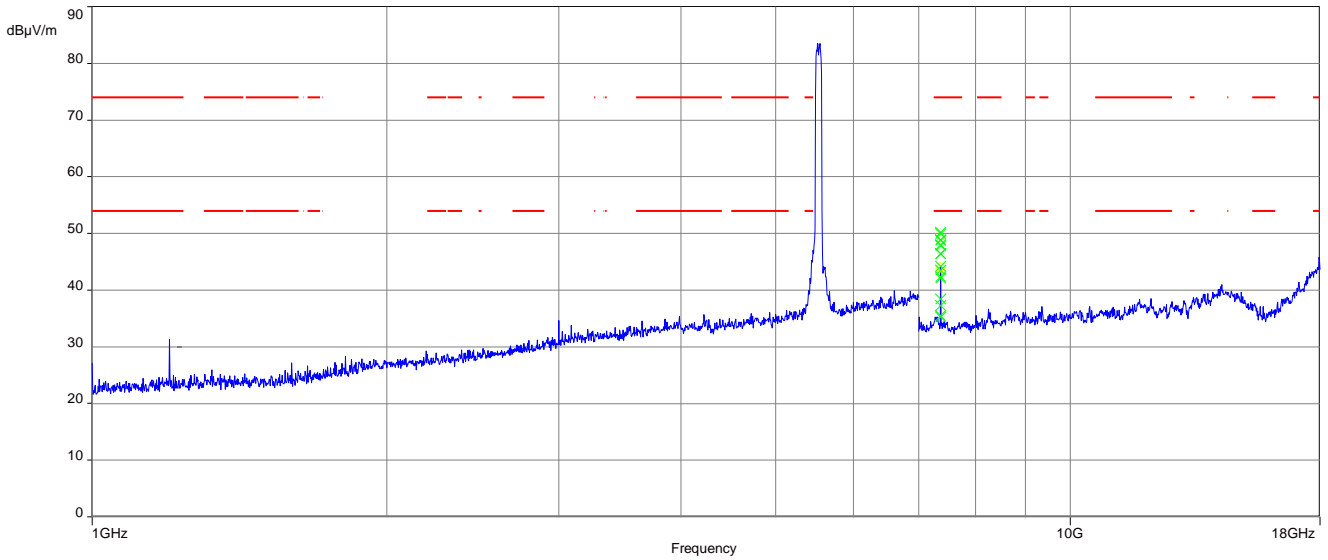
Plot 20: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2A; middle channel



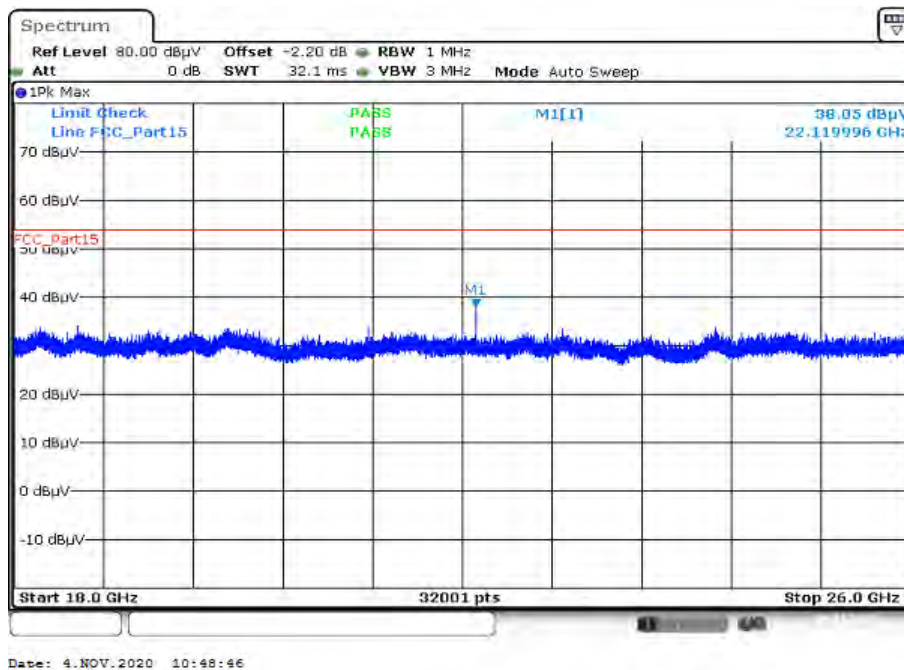
Plot 21: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2A; middle channel



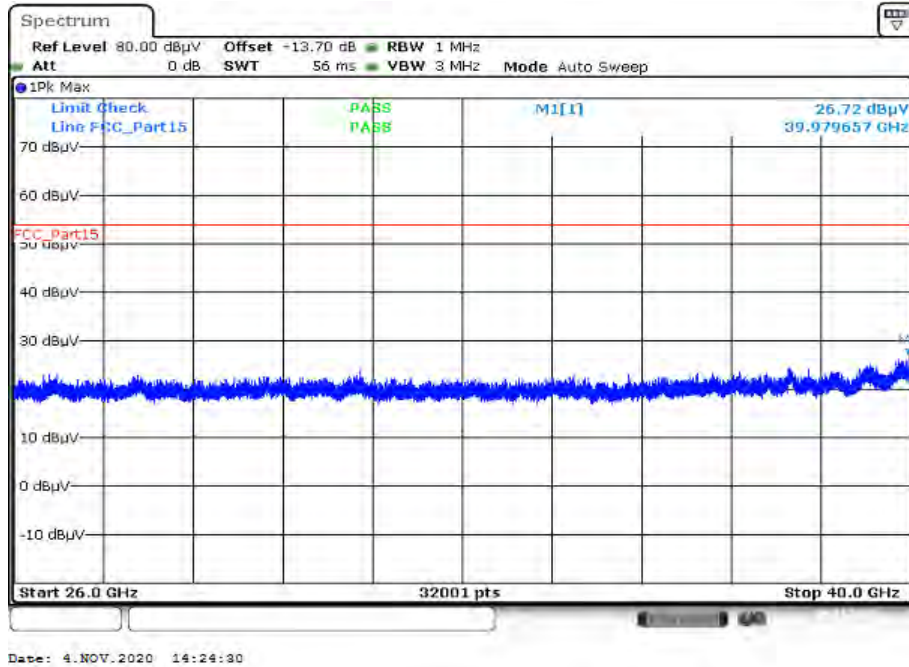
Plot 22: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



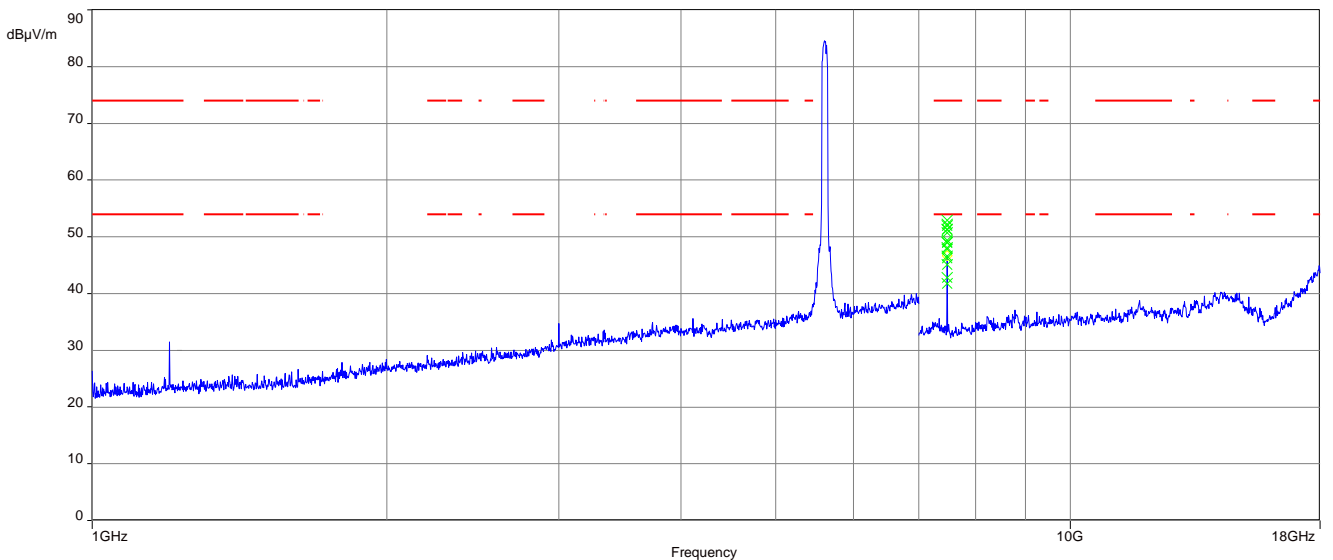
Plot 23: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



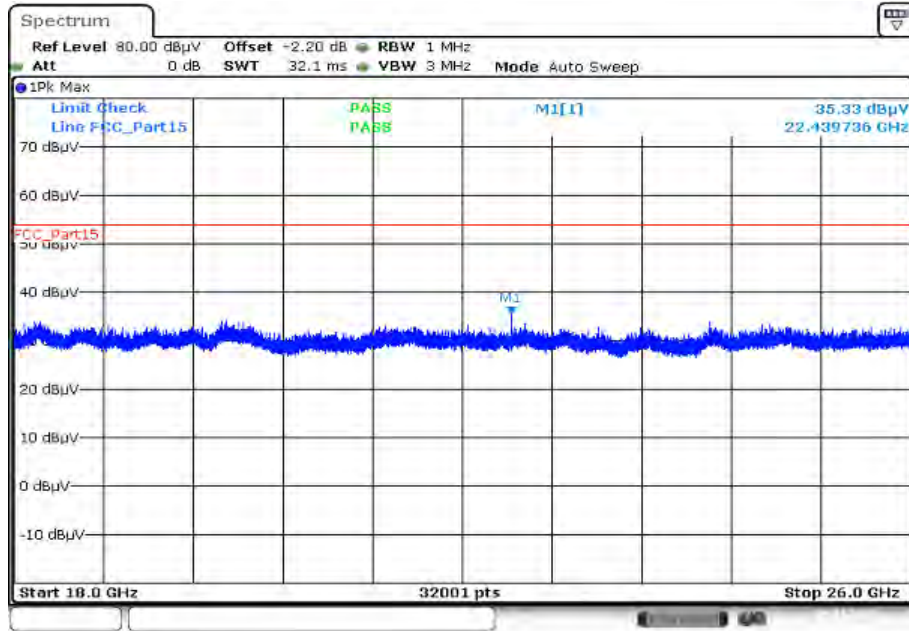
Plot 24: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2C; lowest channel



Plot 25: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-2C; highest channel

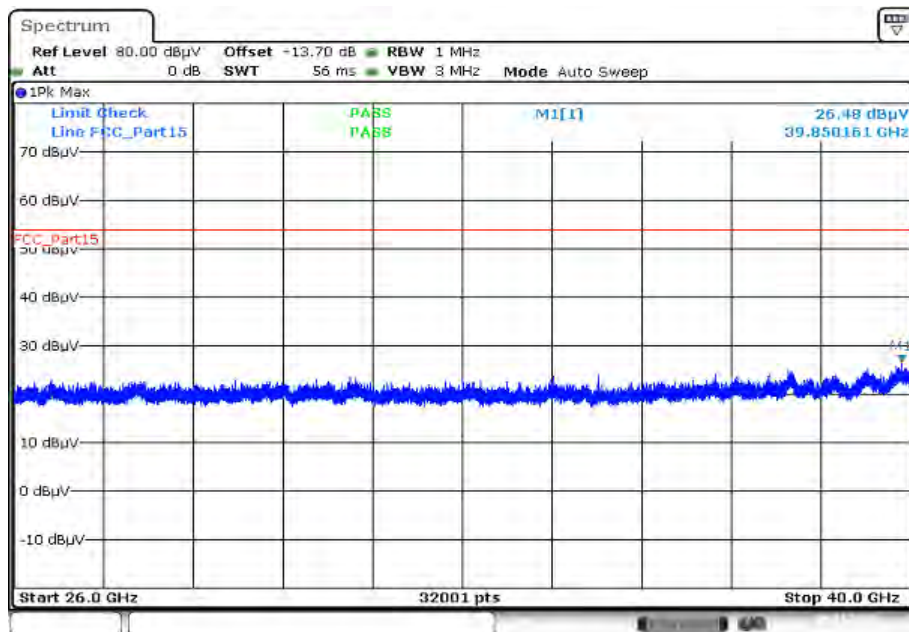


Plot 26: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-2C; highest channel



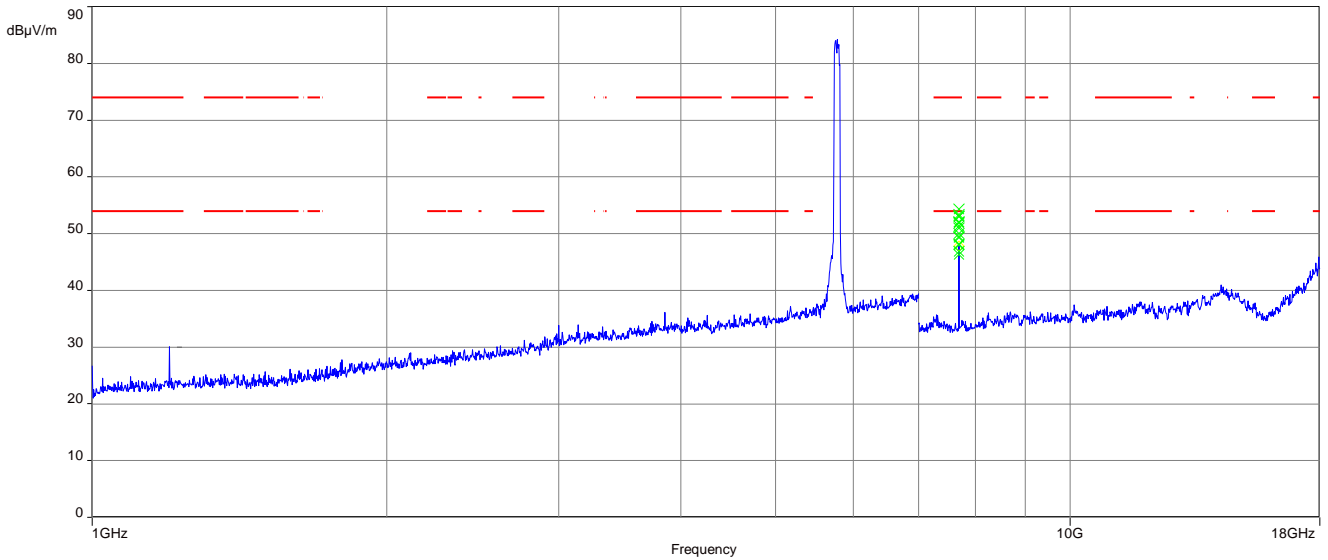
Date: 4.NOV.2020 10:51:20

Plot 27: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-2C; highest channel

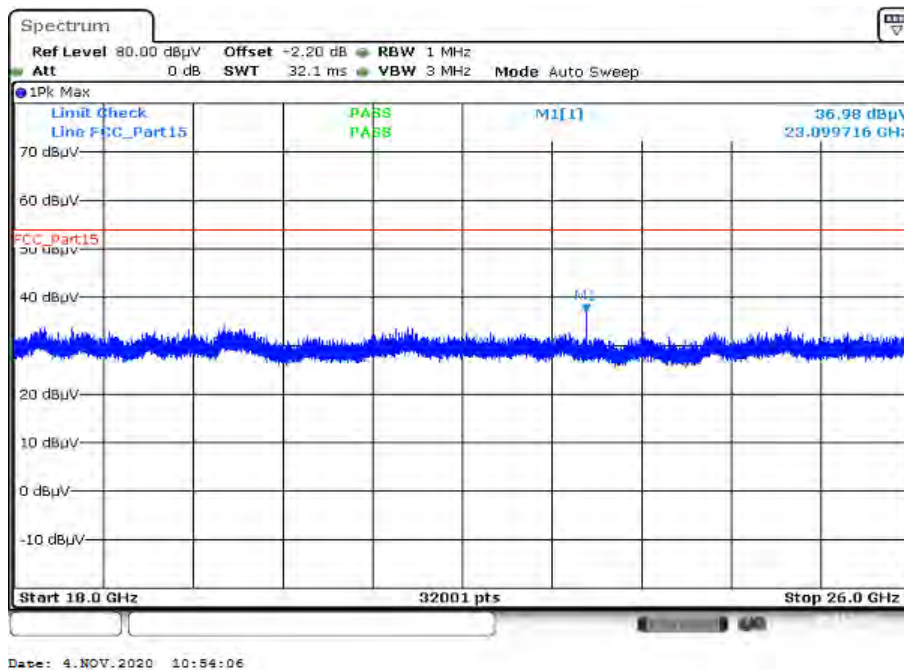


Date: 4.NOV.2020 14:27:19

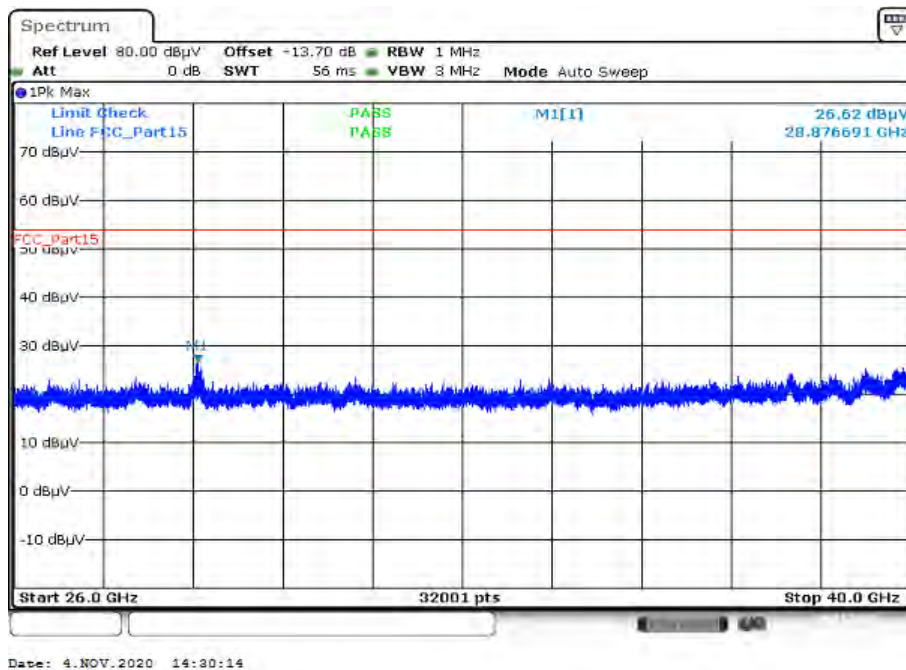
Plot 28: 1 GHz to 18 GHz; vertical & horizontal polarization; U-NII-3; middle channel



Plot 29: 18 GHz to 26 GHz; vertical & horizontal polarization; U-NII-3; middle channel



Plot 30: 26 GHz to 40 GHz; vertical & horizontal polarization; U-NII-3; middle channel



12.13 Spurious emissions conducted < 30 MHz

Description:

Measurement of the conducted spurious emissions in transmit mode below 30 MHz. The EUT is set to middle channel. If critical peaks are found the lowest channel and the highest channel will be measured too. Both power lines, phase and neutral line, are measured. Found peaks are re-measured with average and quasi peak detection to show compliance to the limits.

Measurement:

Measurement parameter	
Detector:	Peak - Quasi Peak / Average
Sweep time:	Auto
Video bandwidth:	9 kHz
Resolution bandwidth:	100 kHz
Span:	150 kHz to 30 MHz
Trace mode:	Max Hold
Test setup:	See sub clause 7.5 – A
Measurement uncertainty:	See chapter 9

Limits:

Spurious Emissions Conducted < 30 MHz		
Frequency (MHz)	Quasi-Peak (dBµV/m)	Average (dBµV/m)
0.15 – 0.5	66 to 56*	56 to 46*
0.5 – 5	56	46
5 – 30.0	60	50

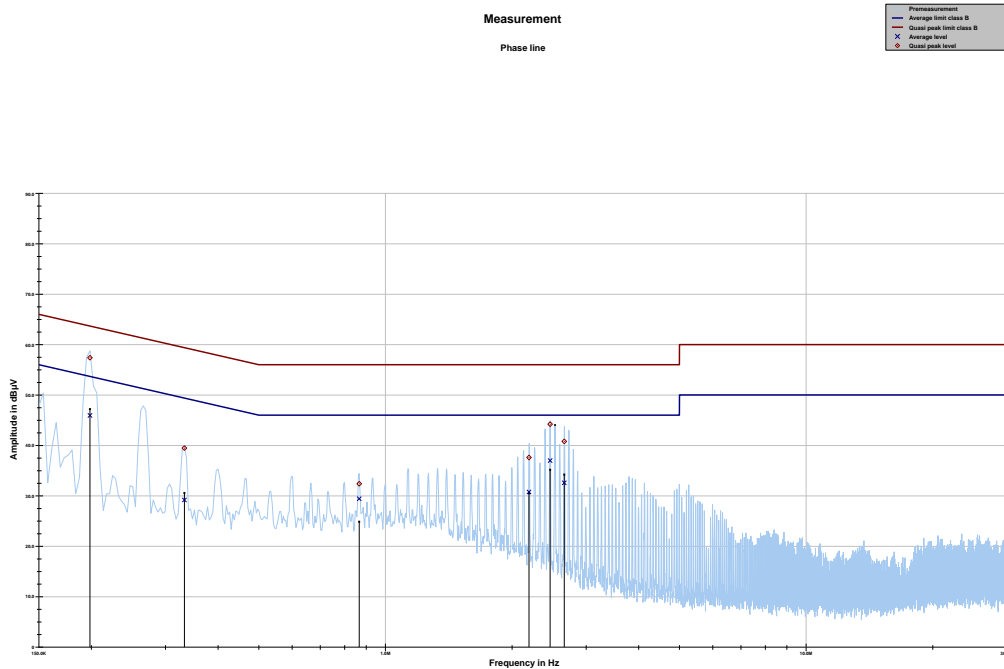
*Decreases with the logarithm of the frequency

Results:

Spurious Emissions Conducted < 30 MHz [dBµV/m]		
F [MHz]	Detector	Level [dBµV/m]
All detected emissions are more than 20 dB below the limit.		

Plots:

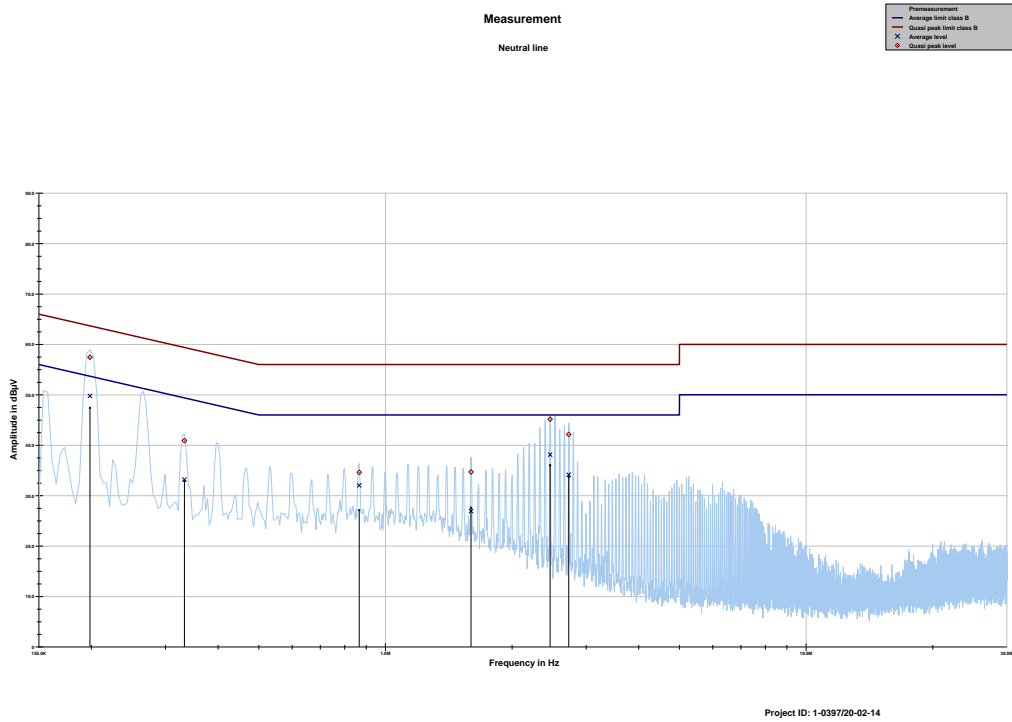
Plot 1: 150 kHz to 30 MHz, phase line



Project ID: 1-0397/20-02-14

Frequency MHz	Quasi peak level dBµV	Margin quasi peak dB	Limit QP dBµV	Average level dBµV	Margin average dB	Limit AV dBµV
0.198506	57.38	6.29	63.673	45.95	8.67	54.614
0.332831	39.47	19.91	59.380	29.18	21.60	50.776
0.866400	32.38	23.62	56.000	29.41	16.59	46.000
2.194725	37.60	18.40	56.000	30.78	15.22	46.000
2.463375	44.21	11.79	56.000	36.99	9.01	46.000
2.661131	40.79	15.21	56.000	32.58	13.42	46.000

Plot 2: 150 kHz to 30 MHz, neutral line



Frequency MHz	Quasi peak level dBµV	Margin quasi peak dB	Limit QP dBµV	Average level dBµV	Margin Average dB	Limit AV dBµV
0.198506	57.44	6.23	63.673	49.78	4.83	54.614
0.332831	40.90	18.48	59.380	33.18	17.60	50.776
0.866400	34.61	21.39	56.000	32.01	13.99	46.000
1.597725	34.70	21.30	56.000	26.95	19.05	46.000
2.463375	45.15	10.85	56.000	38.14	7.86	46.000
2.728294	42.14	13.86	56.000	34.14	11.86	46.000

13 Observations

No observations except those reported with the single test cases have been made.

14 Glossary

EUT	Equipment under test
DUT	Device under test
UUT	Unit under test
GUE	GNSS User Equipment
ETSI	European Telecommunications Standards Institute
EN	European Standard
FCC	Federal Communications Commission
FCC ID	Company Identifier at FCC
IC	Industry Canada
PMN	Product marketing name
HMN	Host marketing name
HVIN	Hardware version identification number
FVIN	Firmware version identification number
EMC	Electromagnetic Compatibility
HW	Hardware
SW	Software
Inv. No.	Inventory number
S/N or SN	Serial number
C	Compliant
NC	Not compliant
NA	Not applicable
NP	Not performed
PP	Positive peak
QP	Quasi peak
AVG	Average
OC	Operating channel
OCW	Operating channel bandwidth
OBW	Occupied bandwidth
OOB	Out of band
DFS	Dynamic frequency selection
CAC	Channel availability check
OP	Occupancy period
NOP	Non occupancy period
DC	Duty cycle
PER	Packet error rate
CW	Clean wave
MC	Modulated carrier
WLAN	Wireless local area network
RLAN	Radio local area network
DSSS	Dynamic sequence spread spectrum
OFDM	Orthogonal frequency division multiplexing
FHSS	Frequency hopping spread spectrum
GNSS	Global Navigation Satellite System
C/N₀	Carrier to noise-density ratio, expressed in dB-Hz

15 Document history

Version	Applied changes	Date of release
-/-	Initial release	2021-03-17
A	Editorial changes	2021-03-19

16 Accreditation Certificate – D-PL-12076-01-04

first page	last page
 <p>The image shows the first page of the accreditation certificate. It features the DAKKS logo (Deutsche Akkreditierungsstelle) and the text: 'Deutsche Akkreditierungsstelle GmbH', 'Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition', 'Accreditation' with the German eagle logo, and 'The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory CTC advanced GmbH, Untertürkheimer Straße 6-10, 66117 Saarbrücken is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out tests in the following fields: Telecommunication (TC) and Electromagnetic Compatibility (EMC) for Canadian Standards'. It also includes the registration number D-PL-12076-01-04, a signature of the Head of Division, and the date Frankfurt am Main, 09.06.2020.</p>	 <p>The image shows the last page of the accreditation certificate. It features the DAKKS logo and the text: 'Deutsche Akkreditierungsstelle GmbH', 'Office Berlin Spittelmarkt 10 10117 Berlin', 'Office Frankfurt am Main Europa-Allee 52 60327 Frankfurt am Main', and 'Office Braunschweig Bundesallee 100 38116 Braunschweig'. It also contains a disclaimer: 'The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkreditierungsstelle GmbH (DAKKS). Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overleaf.' and 'No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAKKS.' It also mentions the accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 and provides websites for EA, ILAC, and IAF.</p>

Note: The current certificate annex is published on the website (link see below) of the Accreditation Body DAKKS or may be received by CTC advanced GmbH on request

<https://www.dakks.de/as/ast/d/D-PL-12076-01-04e.pdf>

17 Accreditation Certificate – D-PL-12076-01-05

first page	last page			
 <p>Deutsche Akkreditierungsstelle GmbH</p> <p>Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV Signatory to the Multilateral Agreements of EA, ILAC and IAF for Mutual Recognition</p> <p>Accreditation </p> <p>The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory CTC advanced GmbH Untertürkheimer Straße 6-10, 66117 Saarbrücken is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out tests in the following fields: Telecommunication (FCC Requirements)</p> <p>The accreditation certificate shall only apply in connection with the notice of accreditation of 09.06.2020 with the accreditation number D-PL-12076-01. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 05 pages. Registration number of the certificate: D-PL-12076-01-05</p> <p>Frankfurt am Main, 09.06.2020 by  Ralf Egner Head of Division</p> <p><small>The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH. https://www.dakks.de/en/content/accredited-bodies-dakks <small>(09/2020 version)</small></small></p>	<p>Deutsche Akkreditierungsstelle GmbH</p> <table border="0"> <tr> <td>Office Berlin Spittelmarkt 10 10117 Berlin</td> <td>Office Frankfurt am Main Europa-Allee 52 60327 Frankfurt am Main</td> <td>Office Braunschweig Bundesallee 100 38116 Braunschweig</td> </tr> </table> <p>The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkreditierungsstelle GmbH (DAkKS). Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overleaf.</p> <p>No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAkKS.</p> <p>The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 (Federal Law Gazette I p. 2625) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products (Official Journal of the European Union L 218 of 9 July 2008, p. 30). DAkKS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC). The signatories to these agreements recognise each other's accreditations.</p> <p>The up-to-date state of membership can be retrieved from the following websites: EA: www.european-accreditation.org ILAC: www.ilac.org IAF: www.iaf.nu</p>	Office Berlin Spittelmarkt 10 10117 Berlin	Office Frankfurt am Main Europa-Allee 52 60327 Frankfurt am Main	Office Braunschweig Bundesallee 100 38116 Braunschweig
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END OF TEST REPORT