

<i>Radiated emission limits 9 kHz – 40 GHz</i>		
<i>Frequency (MHz)</i>	<i>Field strength (<math>\mu\text{V/m}</math>)</i>	<i>Measurement distance (m)</i>
0.009 – 0.490	2400/f(kHz)	300
0.490 – 1.705	24000/f(kHz)	30
1.705 – 30	30	30
30 – 88	100	3
88 – 216	150	3
216 – 960	200	3
960 – 40000	500	3

*Note(s):*

- 1 In the emissions table the tighter limit applies at the band edges.
- 2 The limits are based on the frequency of the unwanted emissions and not the fundamental frequency. However, the level of any unwanted emission shall not exceed the level of the fundamental frequency.
- 3 The emissions limits shown in the table are based on measurement employing CISPR quasi-peak detector except for the frequency bands 9.0 – 90 kHz, 110.0 – 490 kHz, and above 1 GHz. Radiated emissions limits in these three bands are based on measurements employing an average detector with 1 MHz RBW.

Table 1: Radiated emission limits 9 kHz – 40 GHz

<i>Radiated emission limits 40 GHz – 231 GHz</i>		
<i>Frequency (GHz)</i>	<i>Power Density (<math>\text{pW/cm}^2</math>)</i>	<i>Measurement distance (m)</i>
40 – 200	600	3
above	1000	3

*Note(s):*

- 1 According to 47 CFR, Part 95, § 95.3379(a)(3) the spectrum shall be investigated up to 231 GHz.
- 2 The power density of 600 pW/cm<sup>2</sup> corresponds to a transmit power of -1.69 dBm, a field strength of 93.5 dB $\mu\text{V/m}$  for 3 m distance and 103.1 dB $\mu\text{V/m}$  for 1 m distance
- 3 The power density of 1000 pW/cm<sup>2</sup> corresponds to a field strength of 95.8 dB $\mu\text{V/m}$  for 3 m distance, 105.3 dB $\mu\text{V/m}$  for 1 m distance and 111.3 dB $\mu\text{V/m}$  for 0.5 m distance.

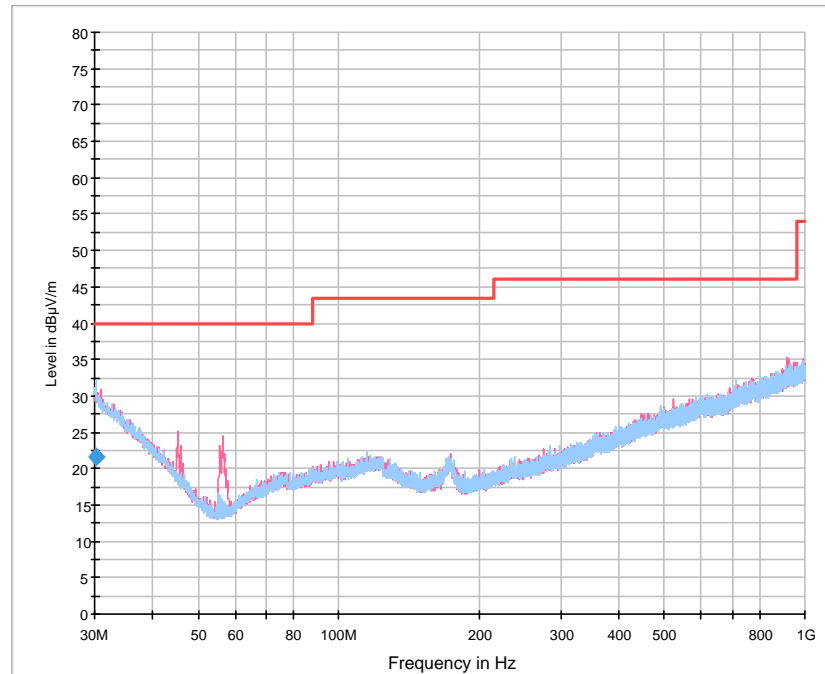
Table 2: FCC Radiated emission limits above 40 GHz



<i>Radiated emission limits 40 GHz –162 GHz</i>		
<i>Frequency (GHz)</i>	<i>Limit (dBm/MHz e.i.r.p.)</i>	<i>Detector</i>
40 – 162	-30	RMS
<p><i>Note(s):</i></p> <p>1 For radar devices that operate solely in the 76 – 76 GHz Band (i.e. the occupied bandwidth is entirely contained in the 76 – 77 GHz band), an unwanted emissions limit of 0 dBm/MHz shall apply for the unwanted emission that fall in the 73.5 – 76 GHz band. Outside the 73.5 – 76 GHz band, the unwanted emission limits prescribed above shall apply.</p>		

Table 3: ISED Radiated emission limits above 40 GHz

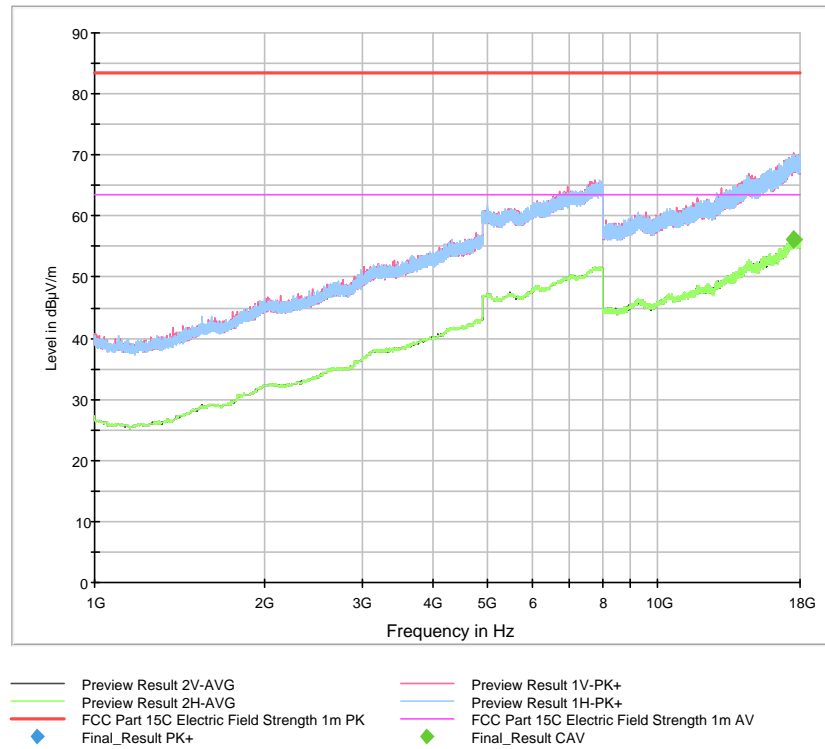
**Plots taken during measurement: Lowest channel, 425 MHz BW**



— Preview Result 1V-PK+      — Preview Result 1H-PK+  
— FCC Part 15C Electric Field Strength 3m QP      ◆ Final\_Result QPK

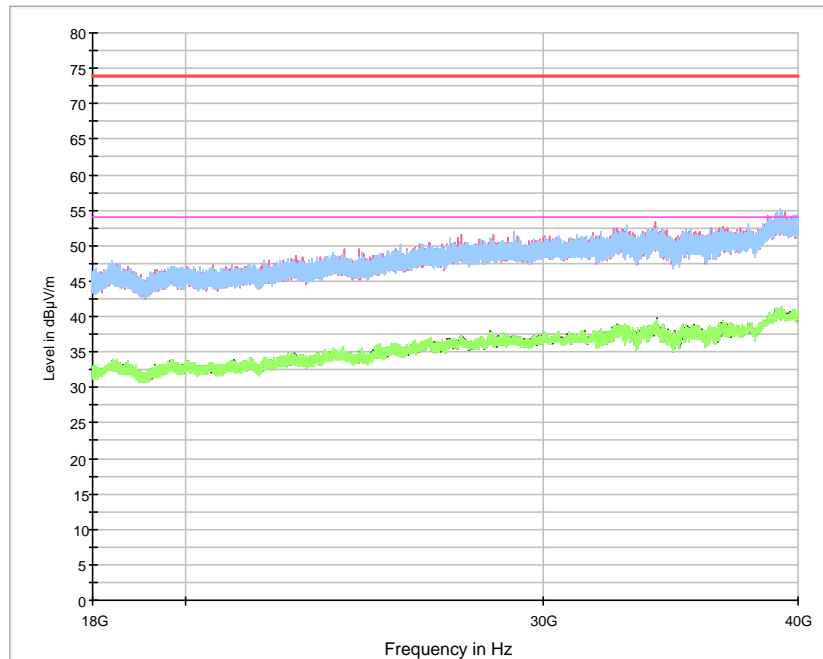
**Final Results:**

Frequency MHz	QuasiPeak dBµV/m	Limit dBµV/m	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB/m
30.330000	21.65	40.00	18.35	1000.0	120.000	100.0	H	208.0	25.6

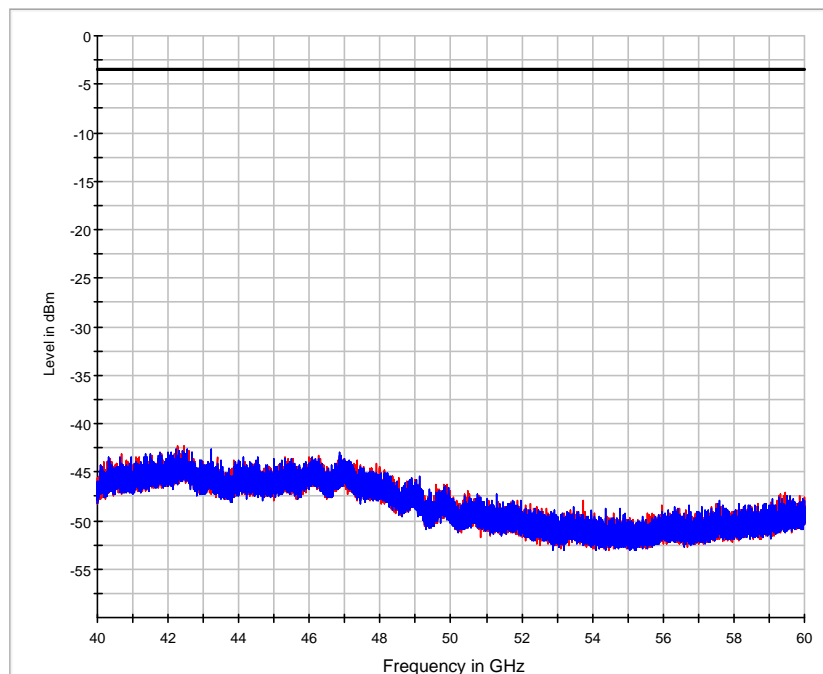


**Final Results:**

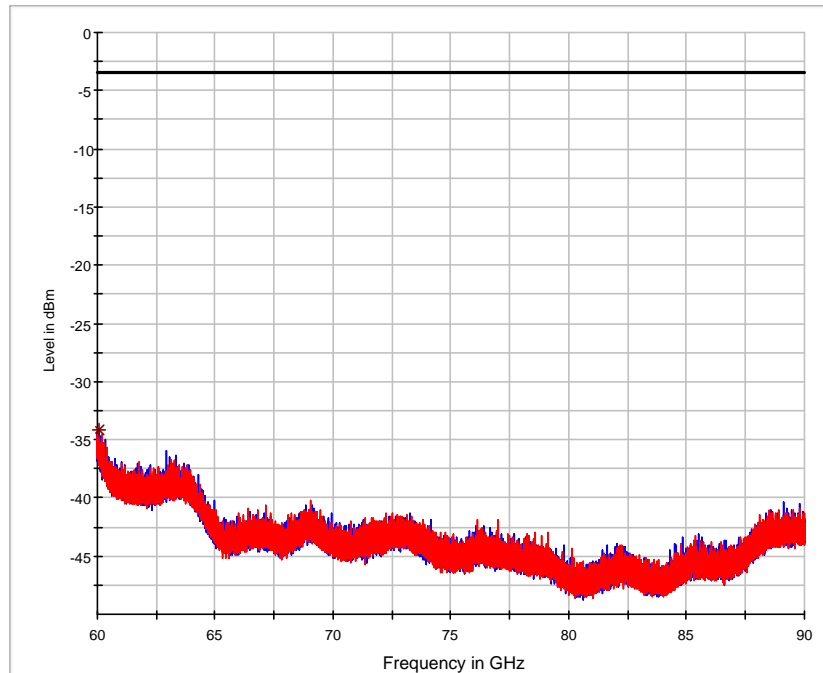
Frequency	MaxPeak	CAverage	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBµV/m	dBµV/m	dBµV/m	dB	ms	kHz	cm		deg	dB/m
17550.250000	---	56.19	63.50	7.31	1000.0	1000.000	150.0	H	-120.0	54.4



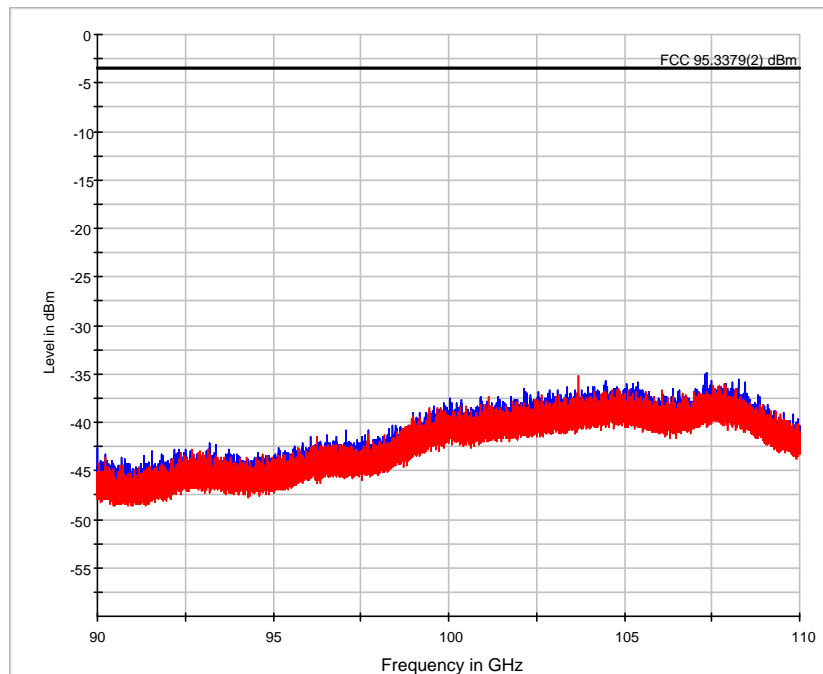
— Preview Result 2V-AVG  
 — Preview Result 2H-AVG  
 — FCC Part 15C Electric Field Strength 3m PK  
 — Preview Result 1V-PK+  
 — Preview Result 1H-PK+  
 — FCC Part 15C Electric Field Strength 3m AV



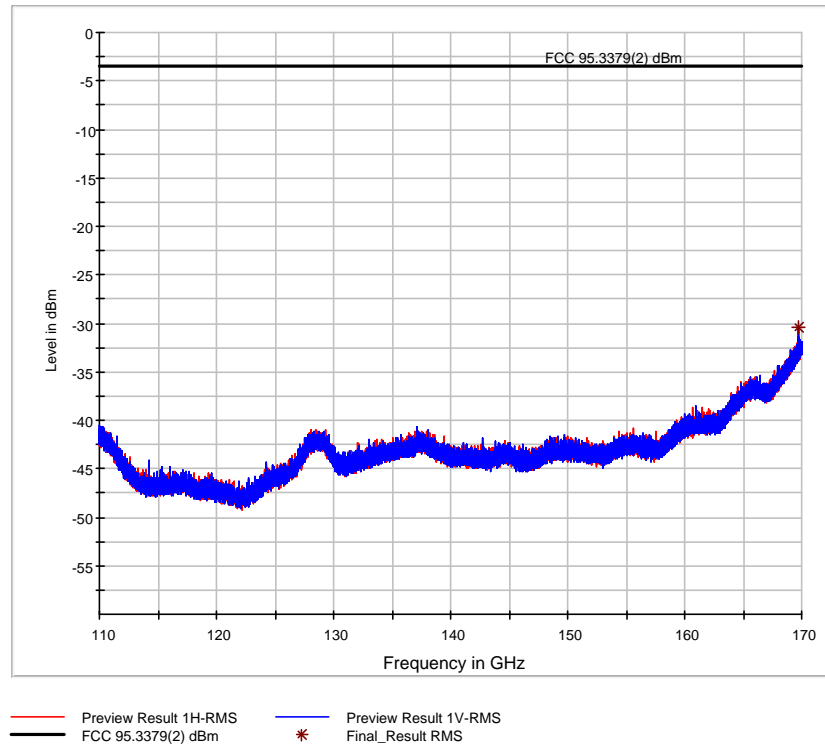
— Preview Result 1H-RMS  
 — Preview Result 1V-RMS  
 — FCC 95.3379(2) dBm  
 \* Final\_Result RMS



— Preview Result 1V-RMS      \* Preview Result 1H-RMS  
— FCC 95.3379(2) dBm      \* Final\_Result RMS

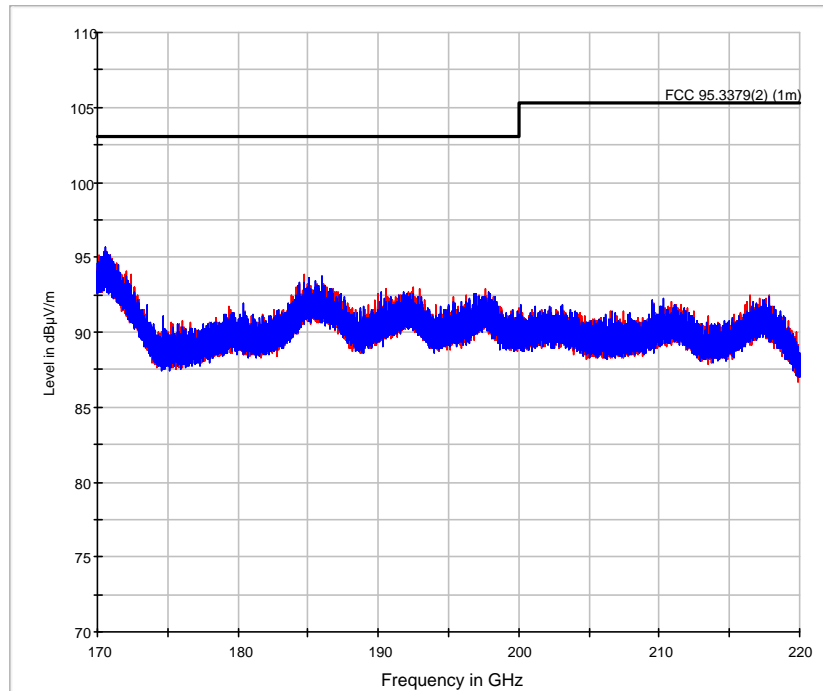


— Preview Result 1V-RMS      \* Preview Result 1H-RMS  
— FCC 95.3379(2) dBm      \* Final\_Result RMS

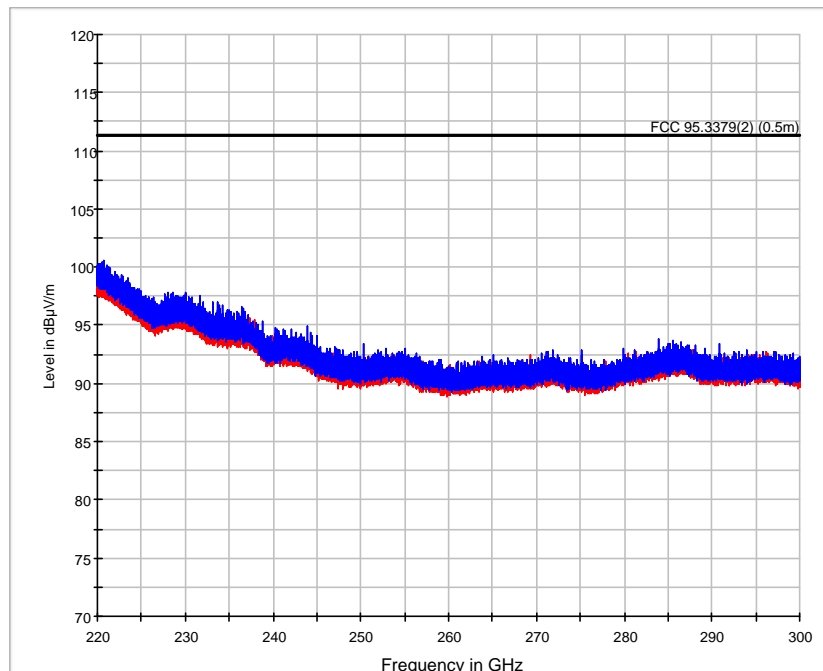


**Final Results:**

Frequency MHz	RMS dBm	Limit dBm	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB
169670.000000	-30.37	-1.69	28.68	20.0	1000.000	150.0	H	180.0	-74



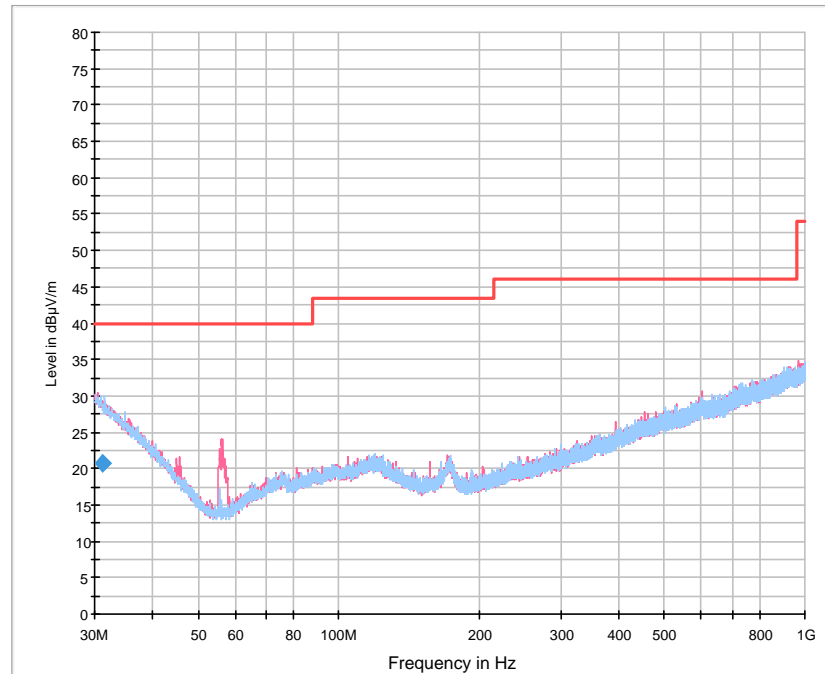
— Preview Result 1H-RMS    — Preview Result 1V-RMS    — FCC 95.3379(2) (1m)



— Preview Result 1H-RMS    — Preview Result 1V-RMS  
 — FCC 95.3379(2) (0.5m)    \* Final\_Result RMS



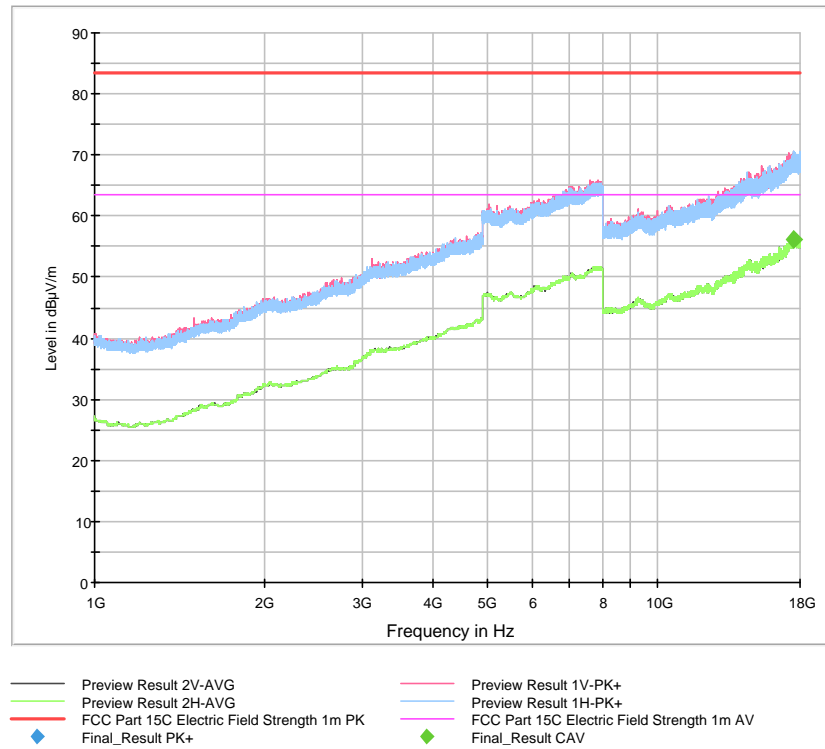
**Plots taken during measurement: middle channel, 175 MHz BW**



— Preview Result 1V-PK+      — Preview Result 1H-PK+  
— FCC Part 15C Electric Field Strength 3m QP      ◆ Final\_Result QPK

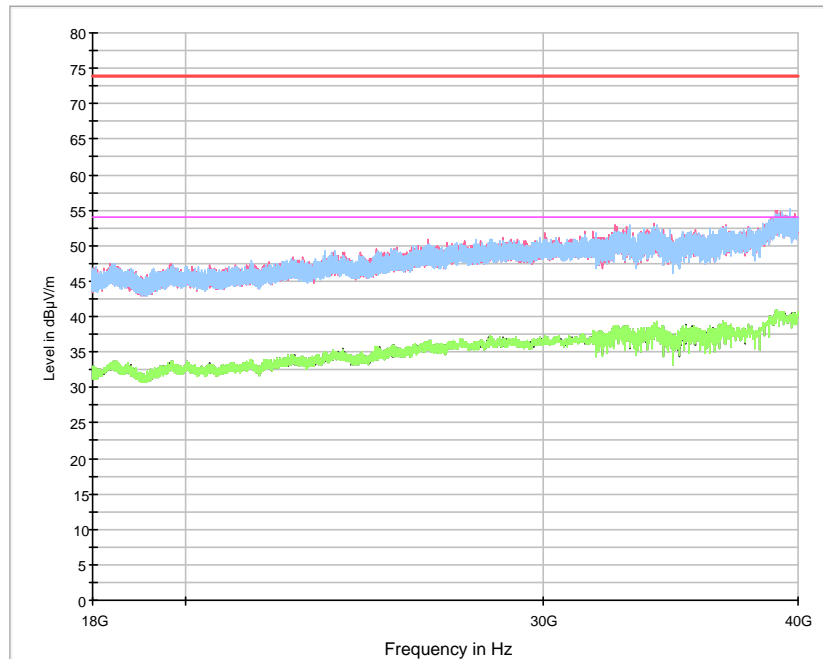
**Final Results:**

Frequency MHz	QuasiPeak dBµV/m	Limit dBµV/m	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB/m
31.170000	20.62	40.00	19.38	1000.0	120.000	222.0	V	-102.0	25.2

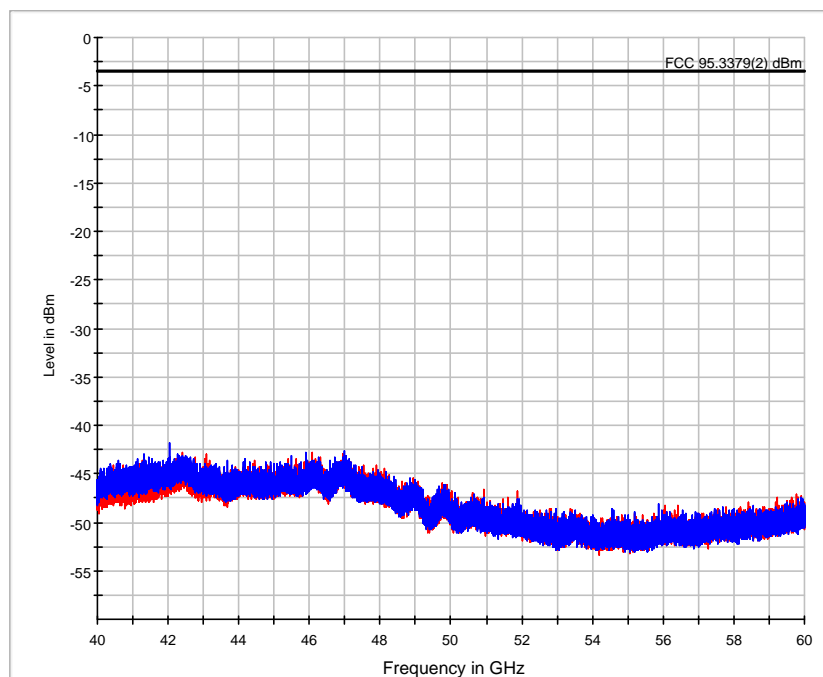


**Final Results:**

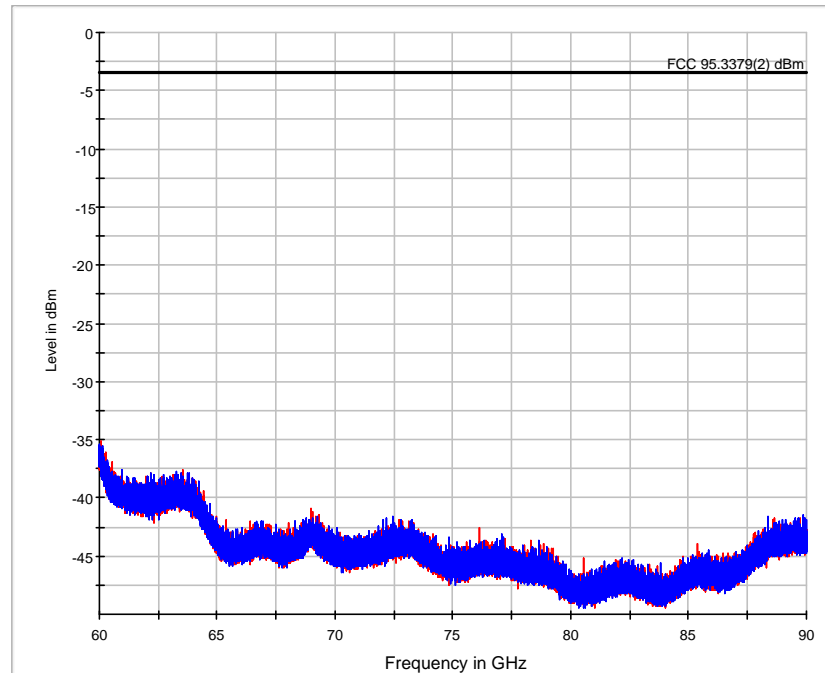
Frequency	MaxPeak	CAverage	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBµV/m	dBµV/m	dBµV/m	dB	ms	kHz	cm		deg	dB/m
17550.750000	---	56.17	63.50	7.33	1000.0	1000.000	100.0	H	-60.0	54.4



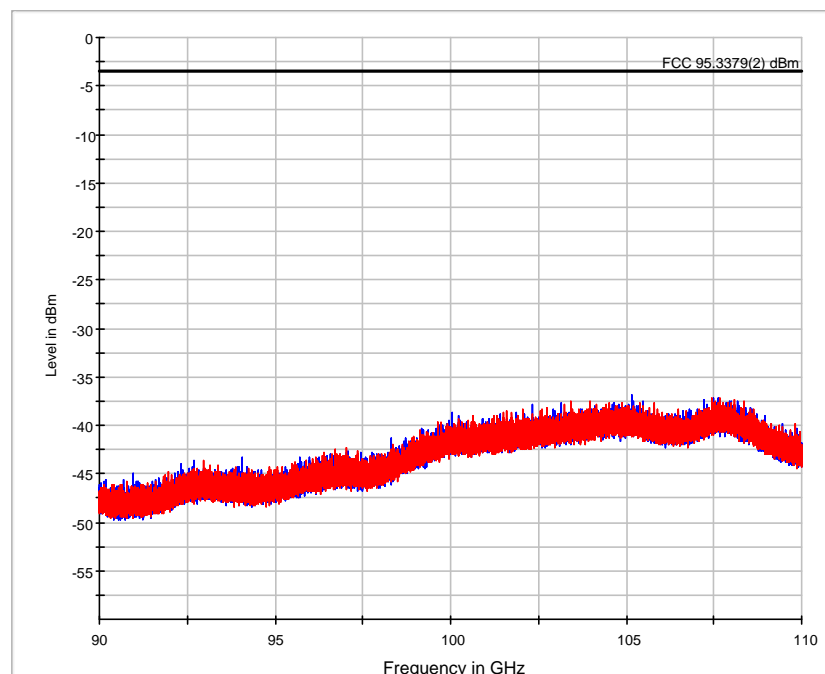
— Preview Result 2V-AVG  
 — Preview Result 2H-AVG  
 — FCC Part 15C Electric Field Strength 3m PK  
 — Preview Result 1V-PK+  
 — Preview Result 1H-PK+  
 — FCC Part 15C Electric Field Strength 3m AV



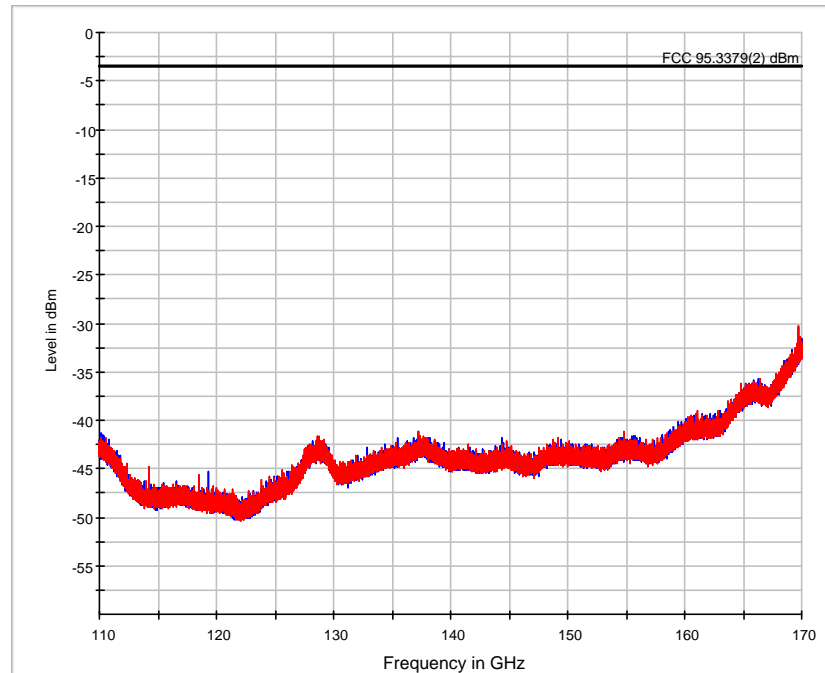
\* Preview Result 1H-RMS  
 \* Final\_Result RMS  
 — Preview Result 1V-RMS  
 — FCC 95.3379(2) dBm



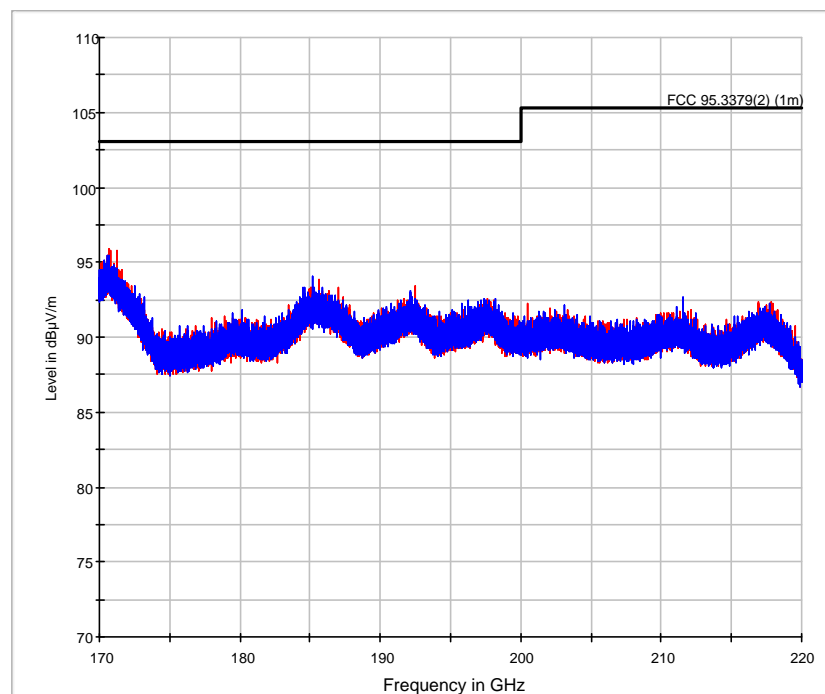
— Preview Result 1H-RMS      — Preview Result 1V-RMS  
— FCC 95.3379(2) dBm      \* Final\_Result RMS



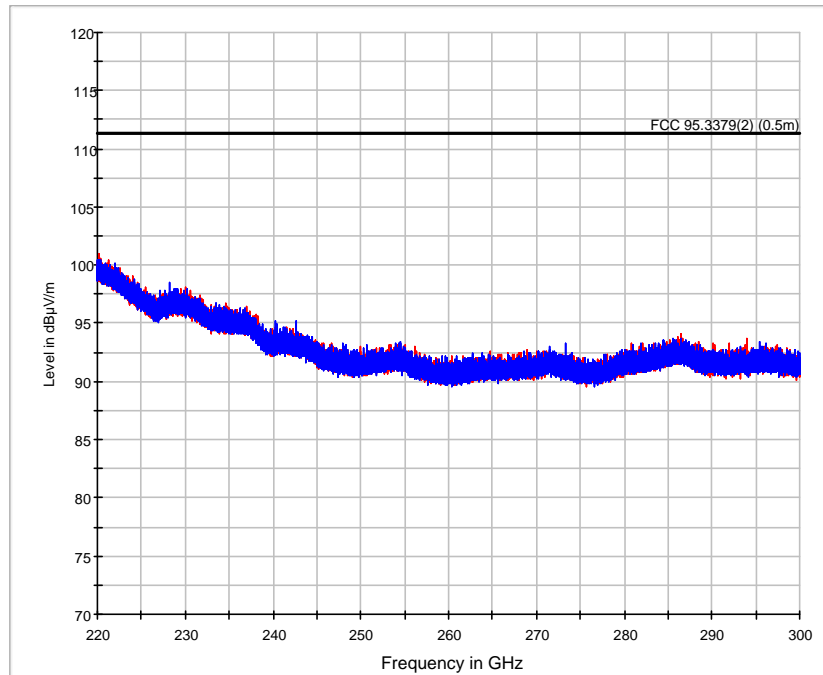
— Preview Result 1V-RMS      — Preview Result 1H-RMS  
— FCC 95.3379(2) dBm      \* Final\_Result RMS



— Preview Result 1V-RMS      — Preview Result 1H-RMS  
— FCC 95.3379(2) dBm      \* Final\_Result RMS

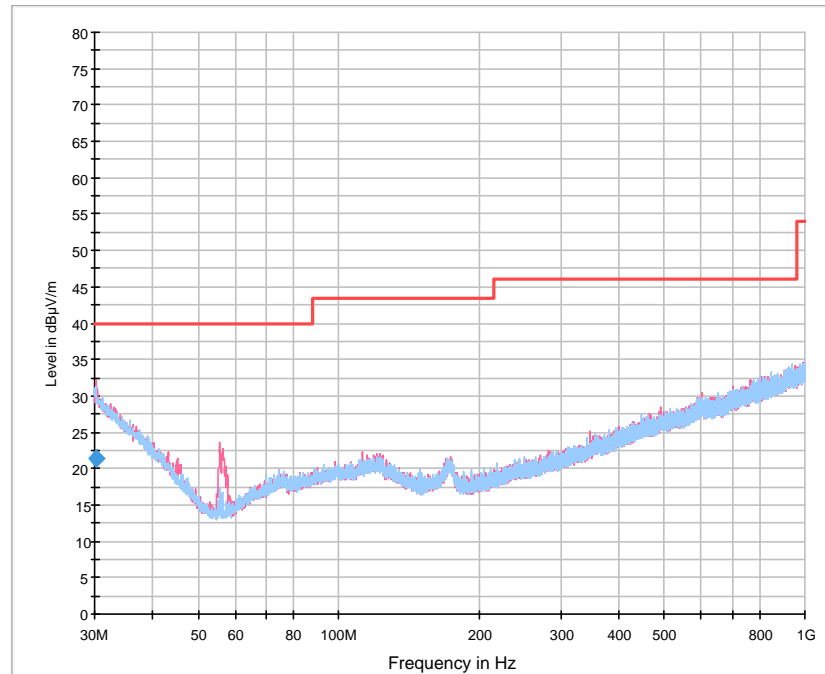


— Preview Result 1H-RMS      — Preview Result 1V-RMS      — FCC 95.3379(2) (1m)



— Preview Result 1H-RMS      — Preview Result 1V-RMS  
— FCC 95.3379(2) (0.5m)      \* Final\_Result RMS

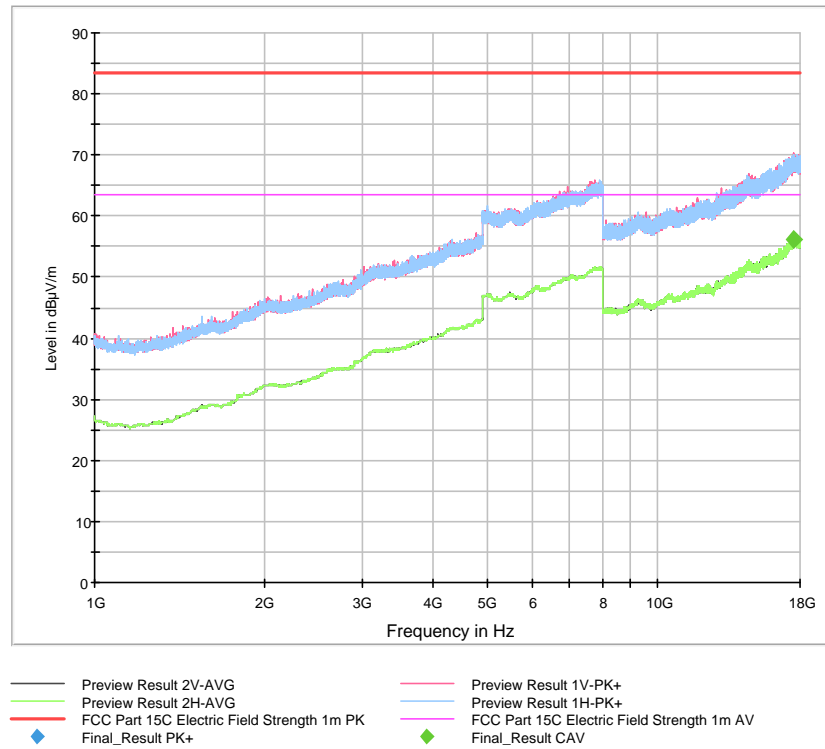
**Plots taken during measurement: Highest channel, 425 MHz BW**



— Preview Result 1V-PK+      — Preview Result 1H-PK+  
— FCC Part 15C Electric Field Strength 3m QP      ◆ Final\_Result QPK

**Final Results:**

Frequency MHz	QuasiPeak dBµV/m	Limit dBµV/m	Margin dB	Meas. Time ms	Bandwidth kHz	Height cm	Pol	Azimuth deg	Corr. dB/m
30.270000	21.45	40.00	18.55	1000.0	120.000	150.0	V	26.0	25.7



**Final Results:**

Frequency	MaxPeak	CAverage	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBµV/m	dBµV/m	dBµV/m	dB	ms	kHz	cm		deg	dB/m
17550.250000	---	56.19	63.50	7.31	1000.0	1000.000	150.0	H	-120.0	54.4