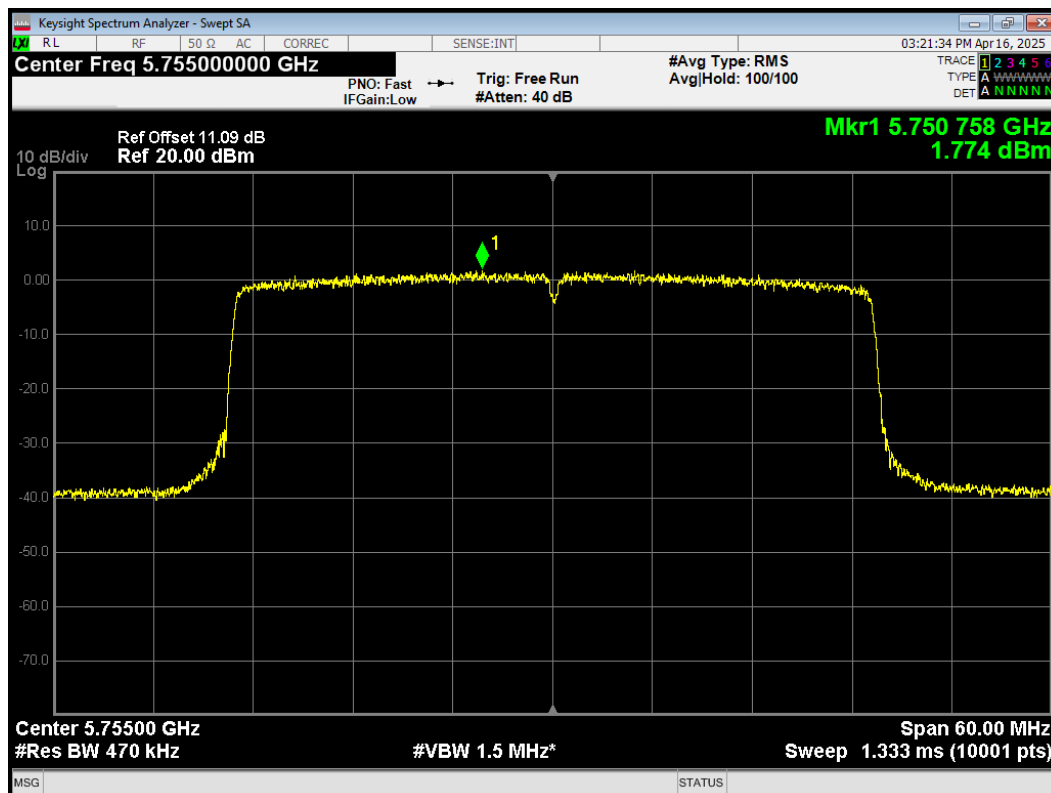
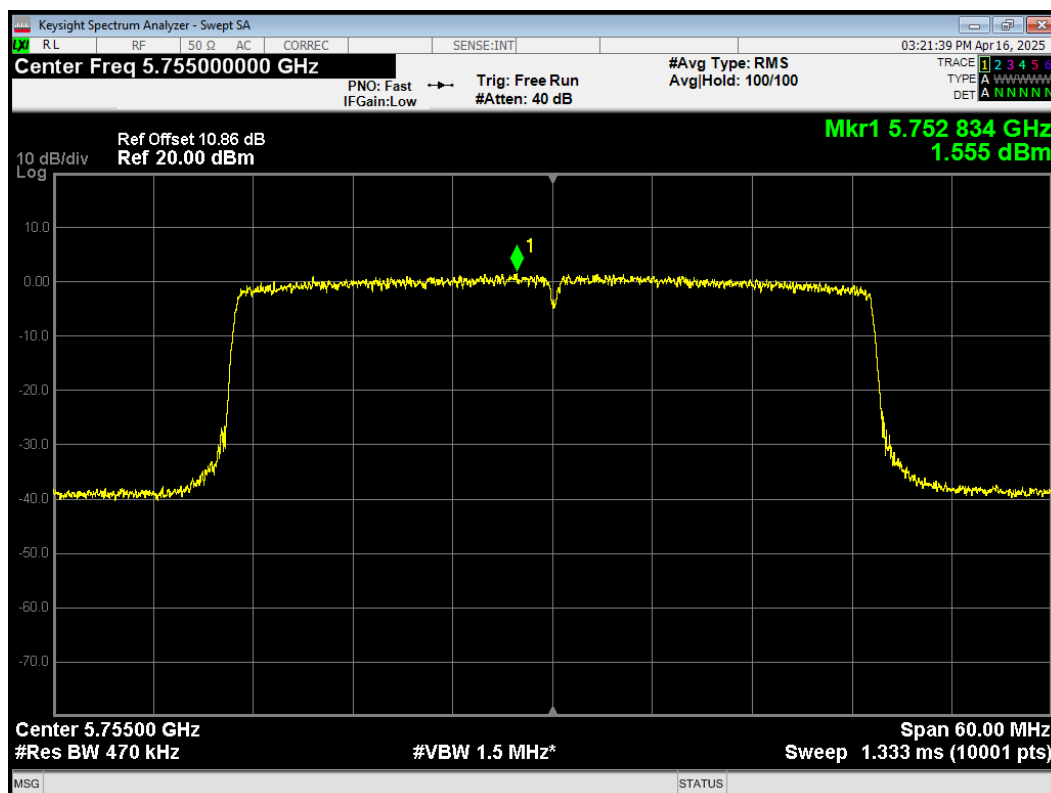


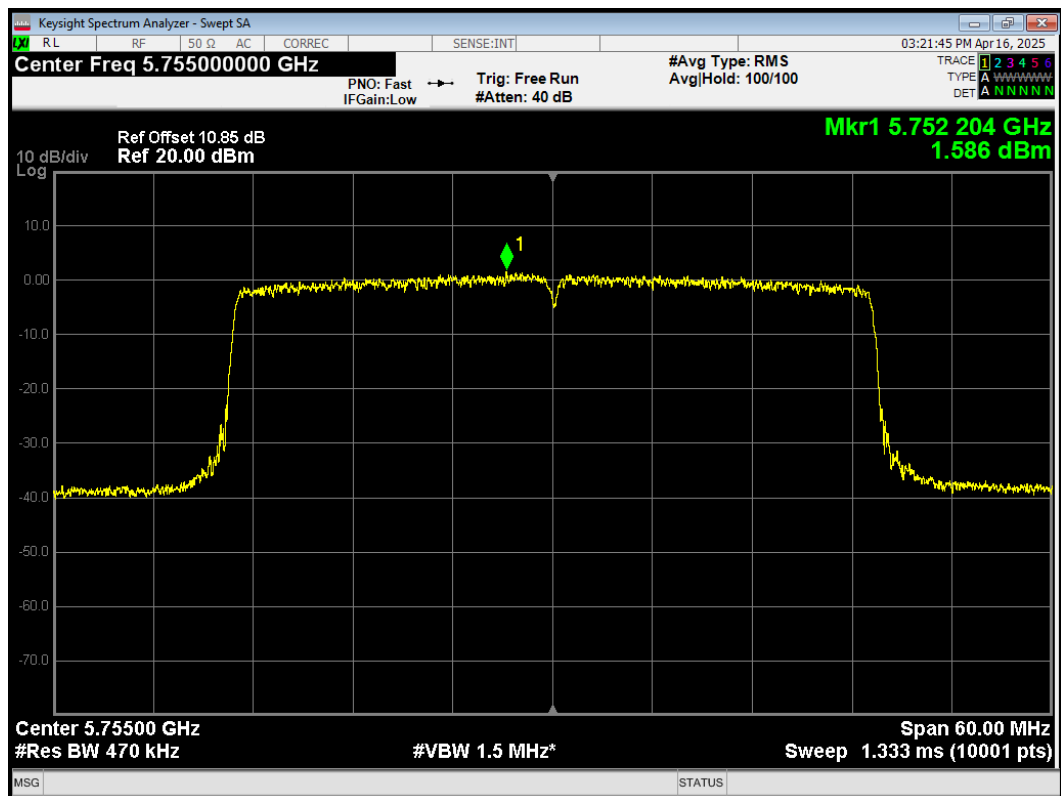
PSD 802.11ax(HE40) 484T 5755MHz Ant1



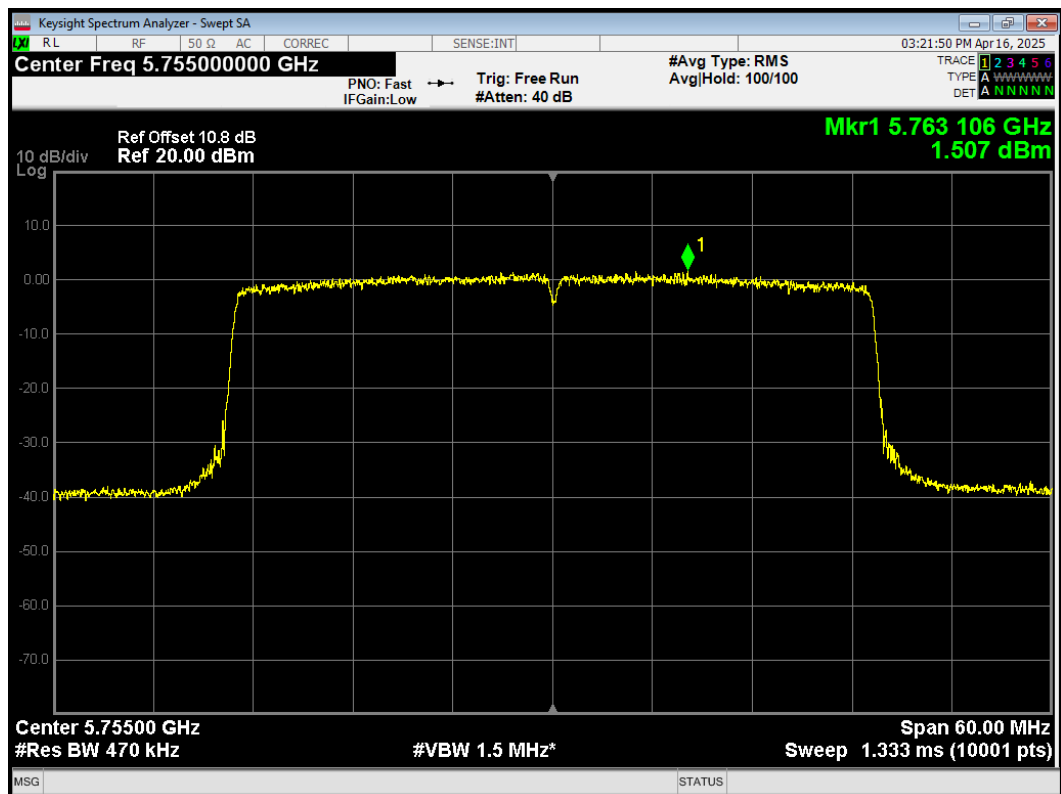
PSD 802.11ax(HE40) 484T 5755MHz Ant2



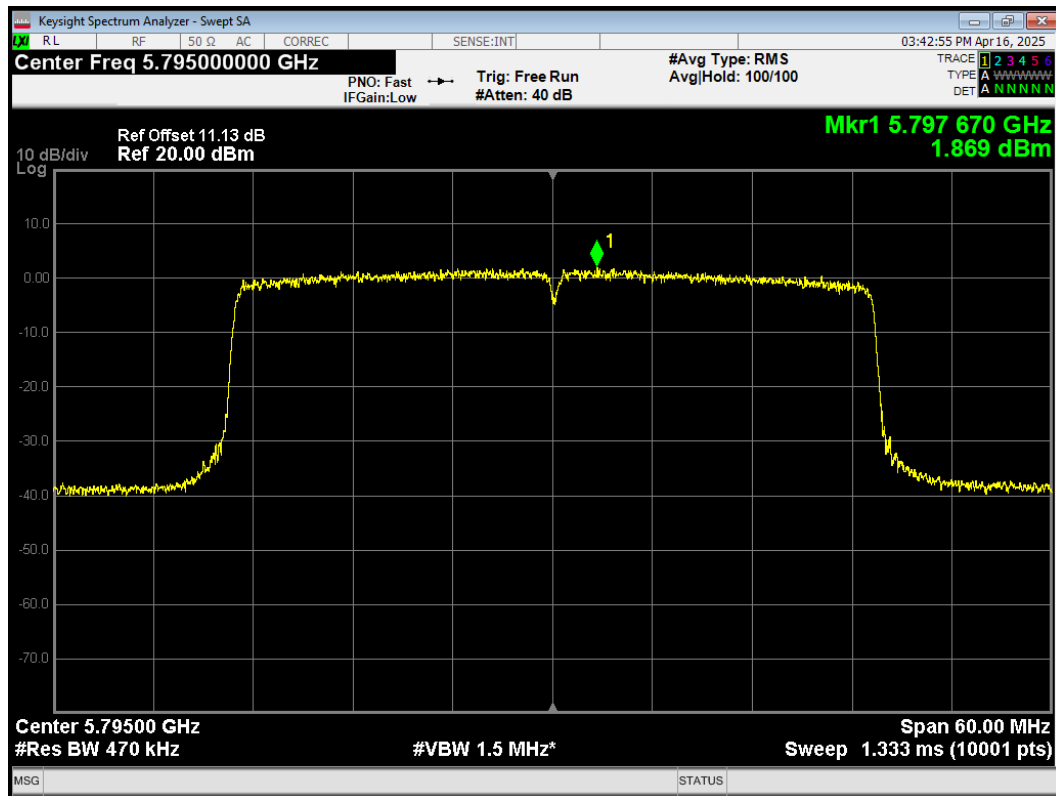
PSD 802.11ax(HE40) 484T 5755MHz Ant3



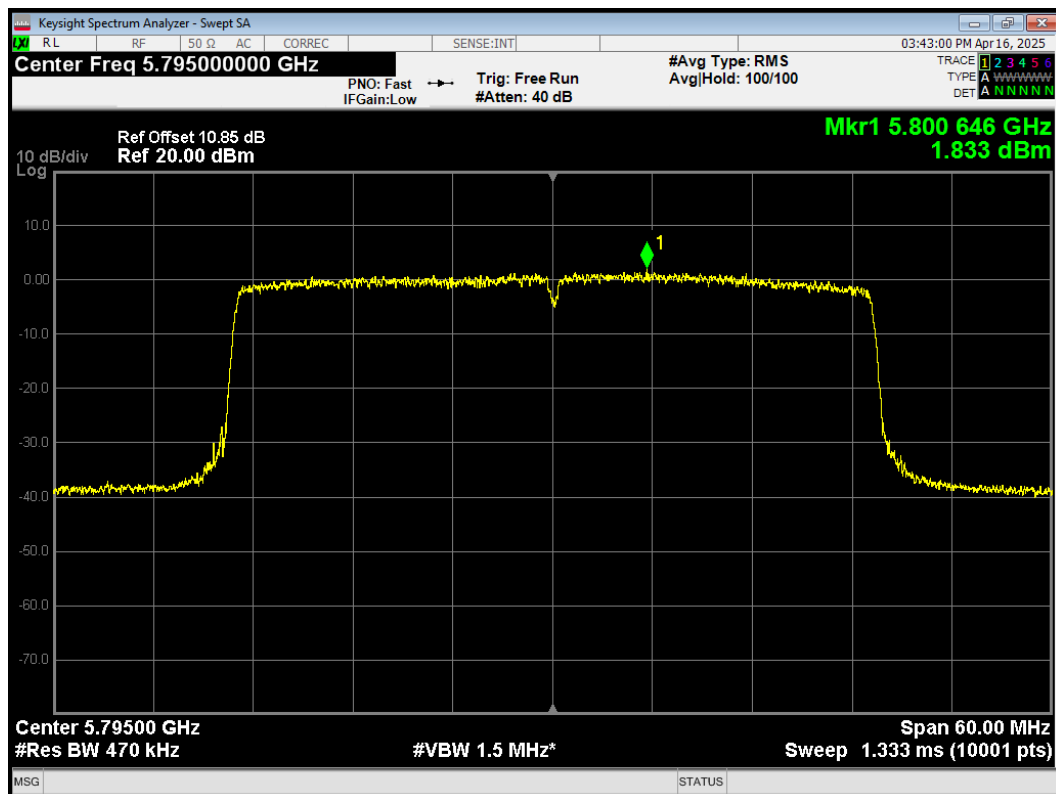
PSD 802.11ax(HE40) 484T 5755MHz Ant4



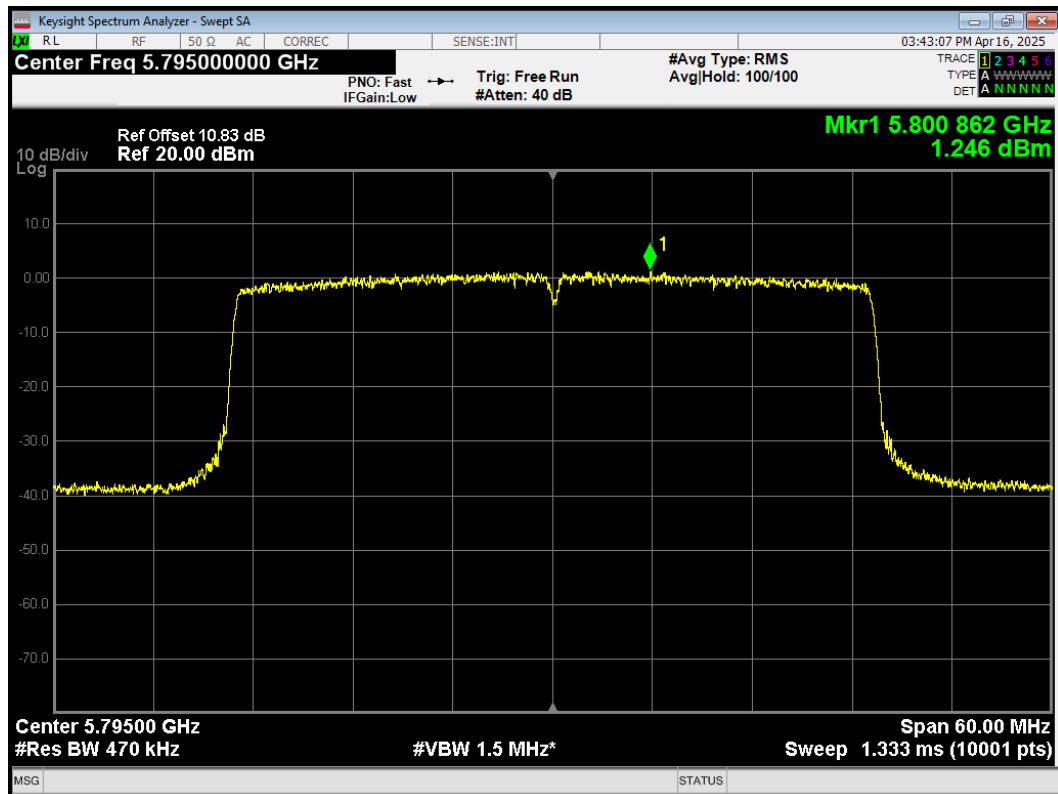
PSD 802.11ax(HE40) 484T 5795MHz Ant1



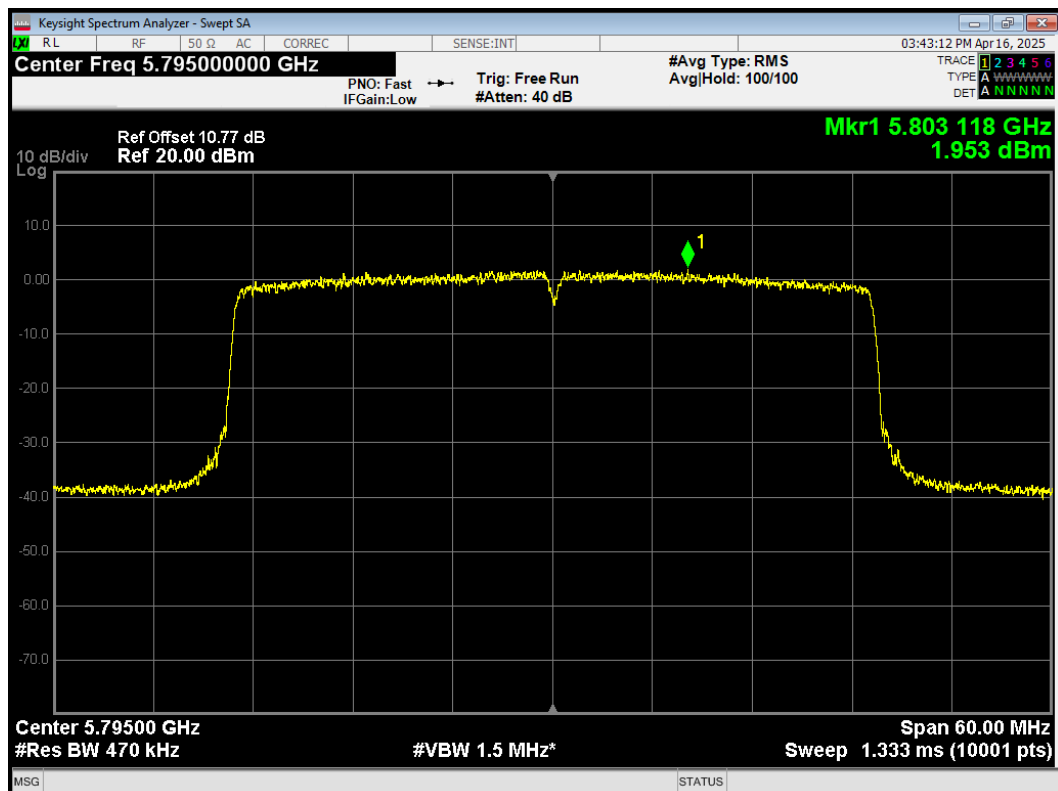
PSD 802.11ax(HE40) 484T 5795MHz Ant2



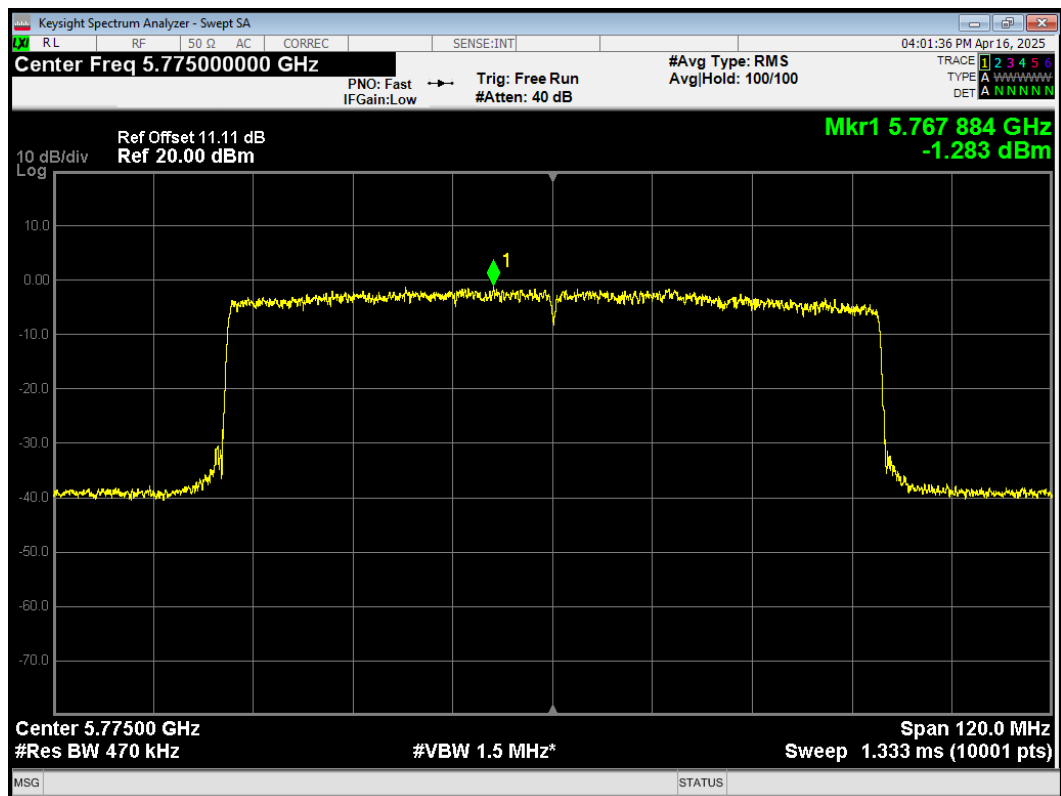
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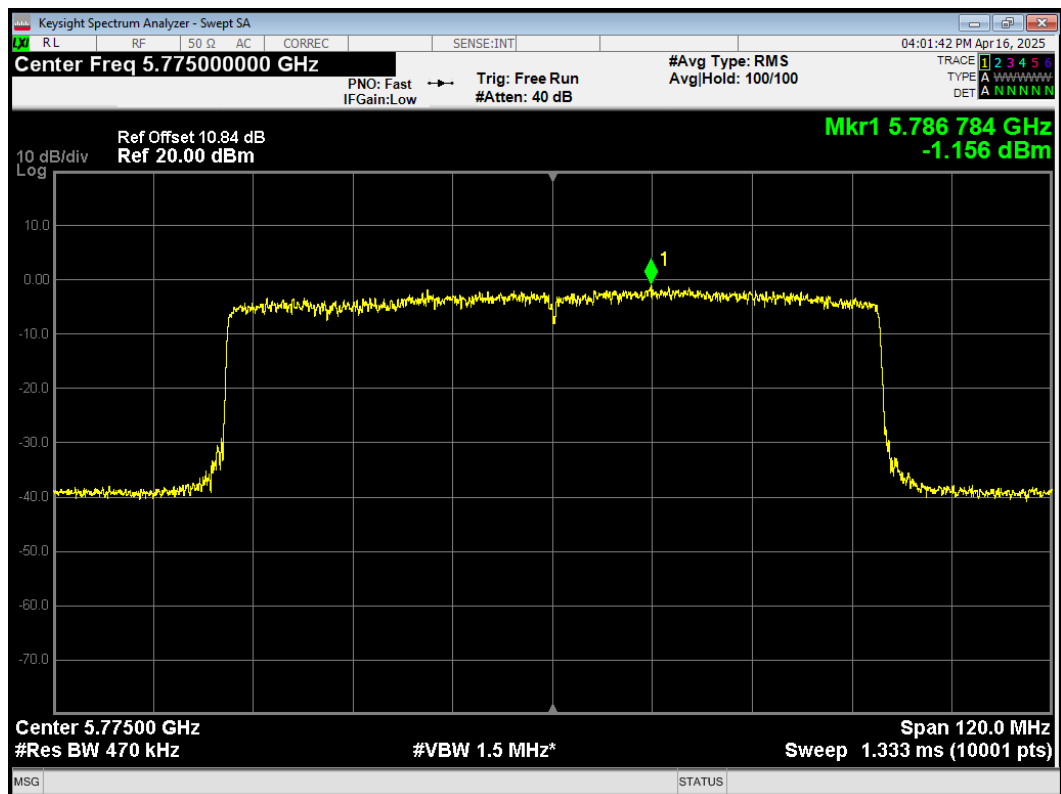
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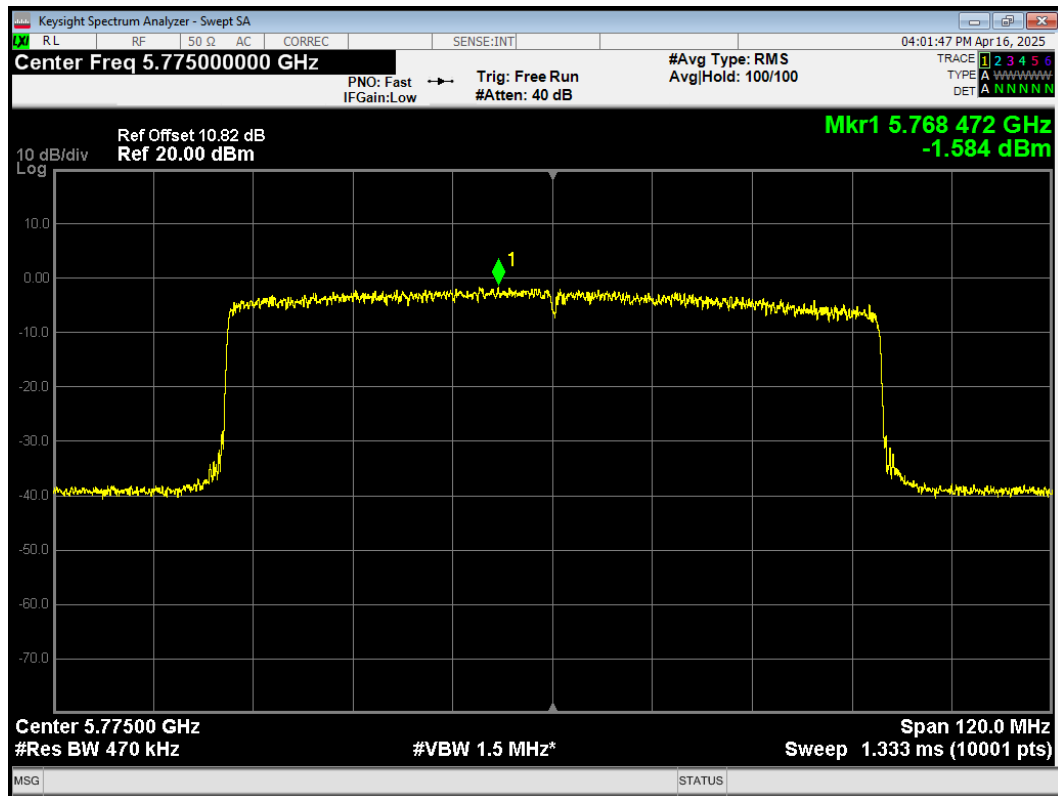
PSD 802.11ax(HE80) 5775MHz Ant1



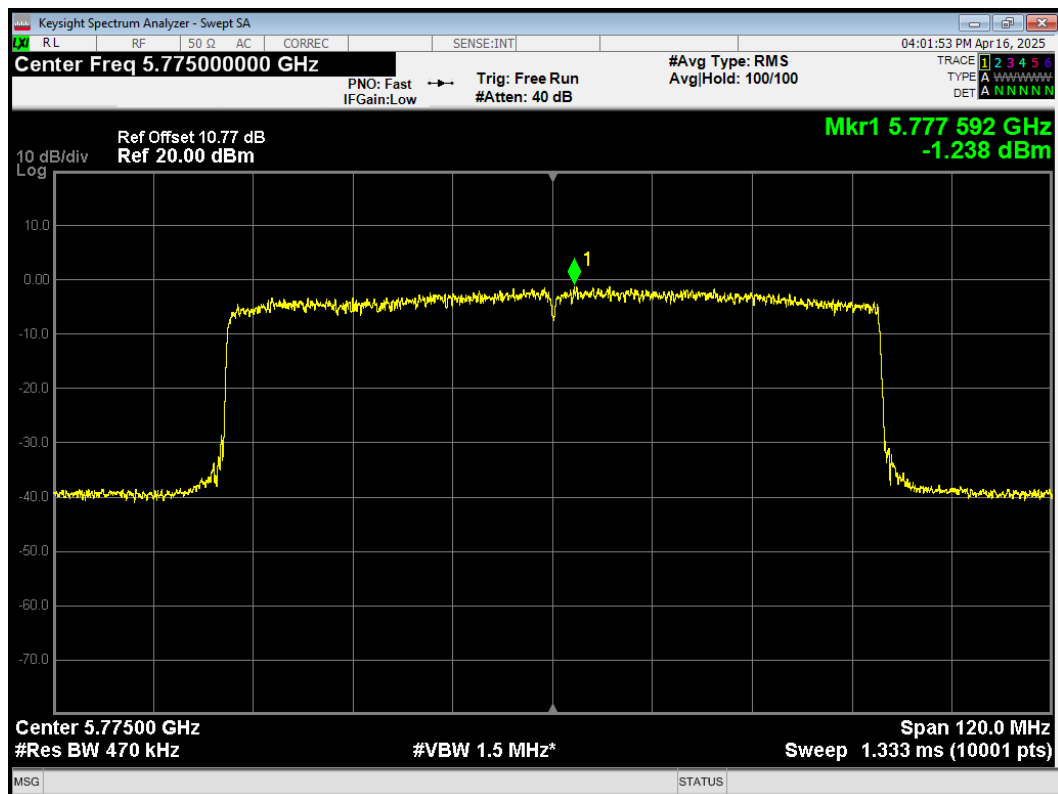
PSD 802.11ax(HE80) 5775MHz Ant2



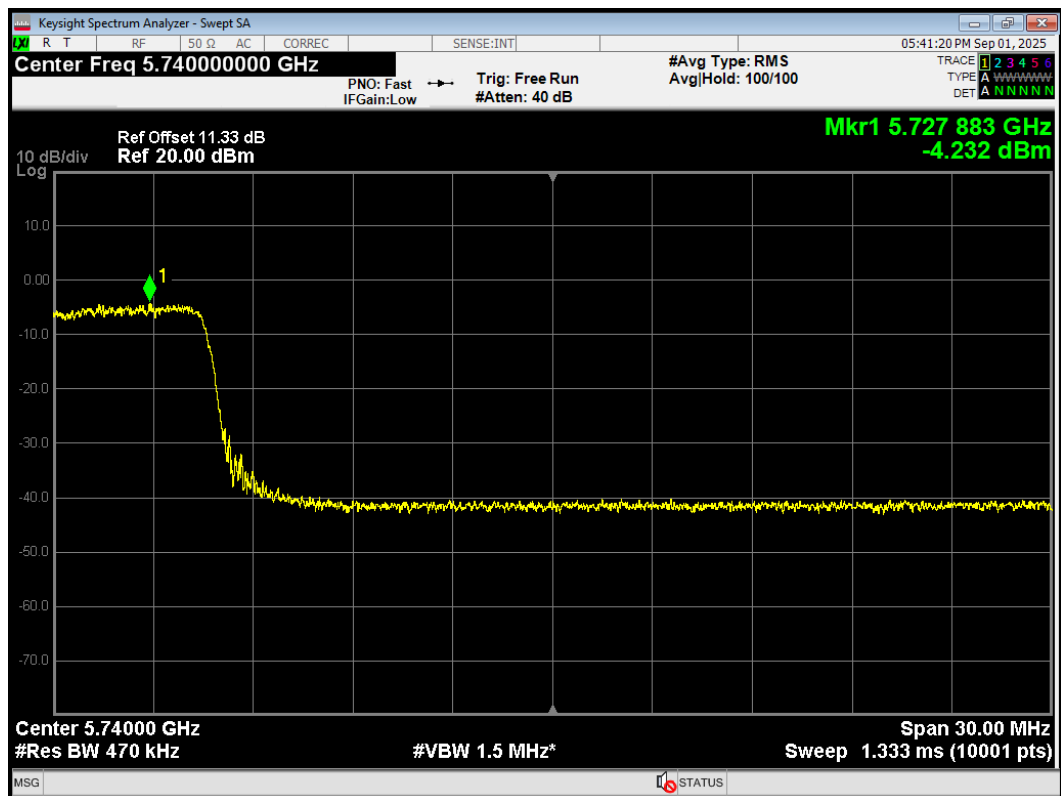
PSD 802.11ax(HE80) 5775MHz Ant3



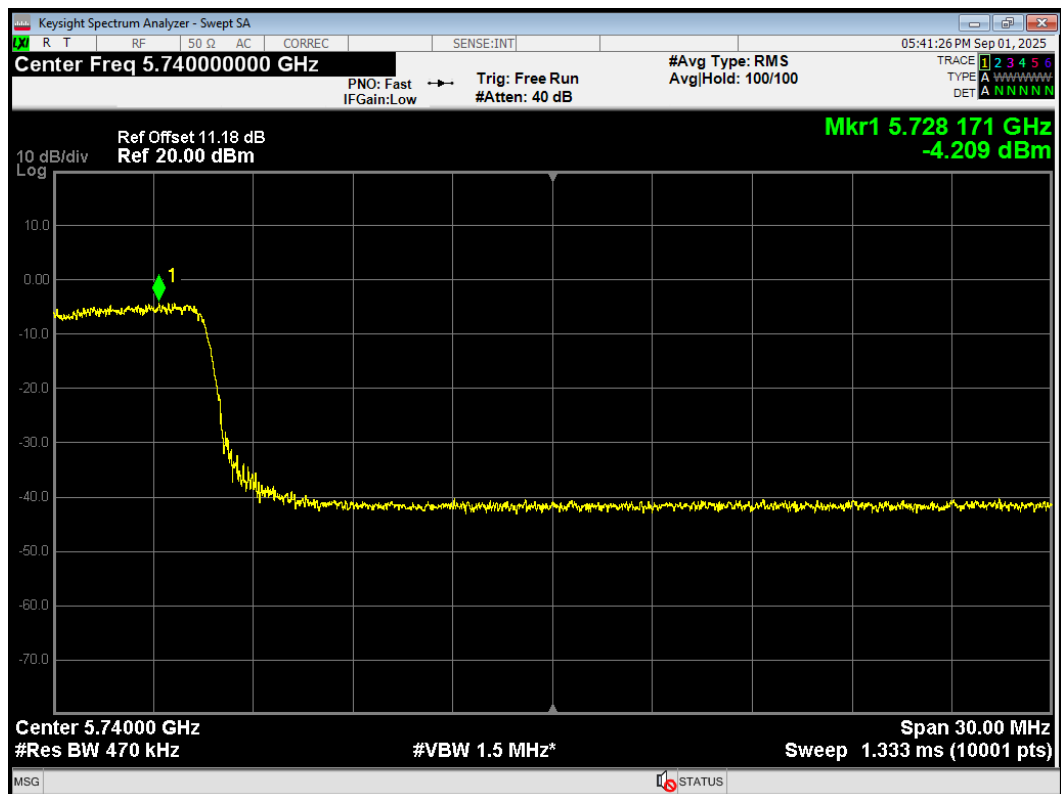
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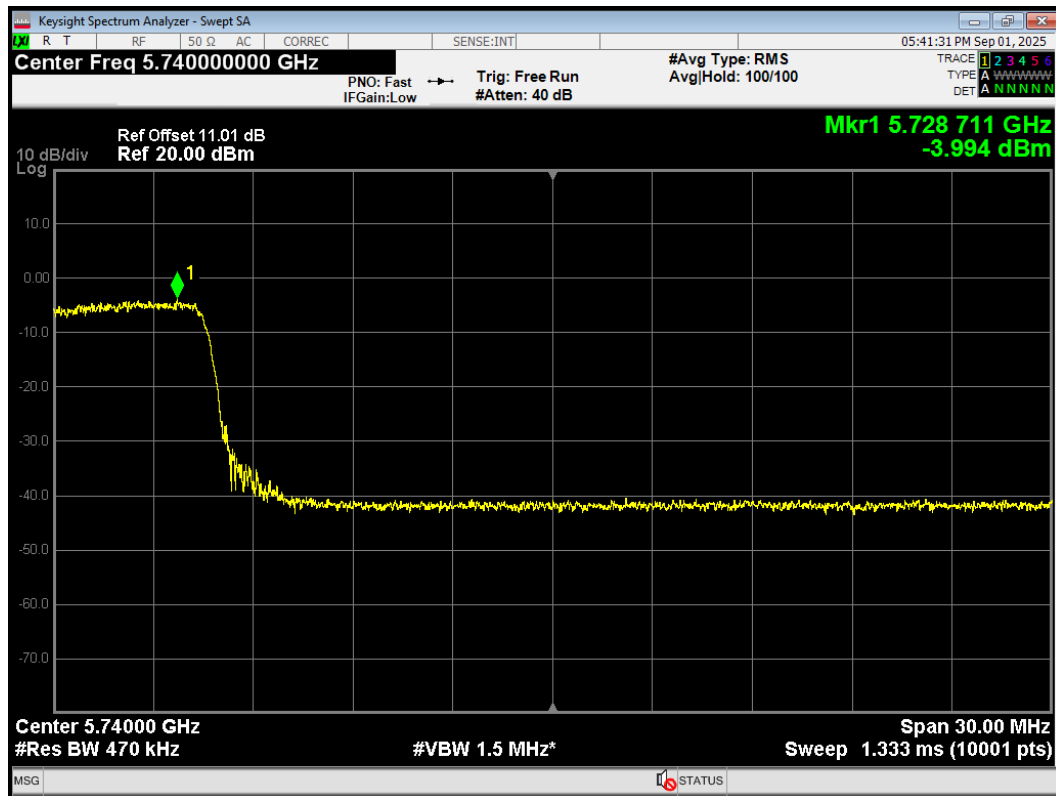
PSD 802.11ax(HE20) 106T 5720MHz Ant1



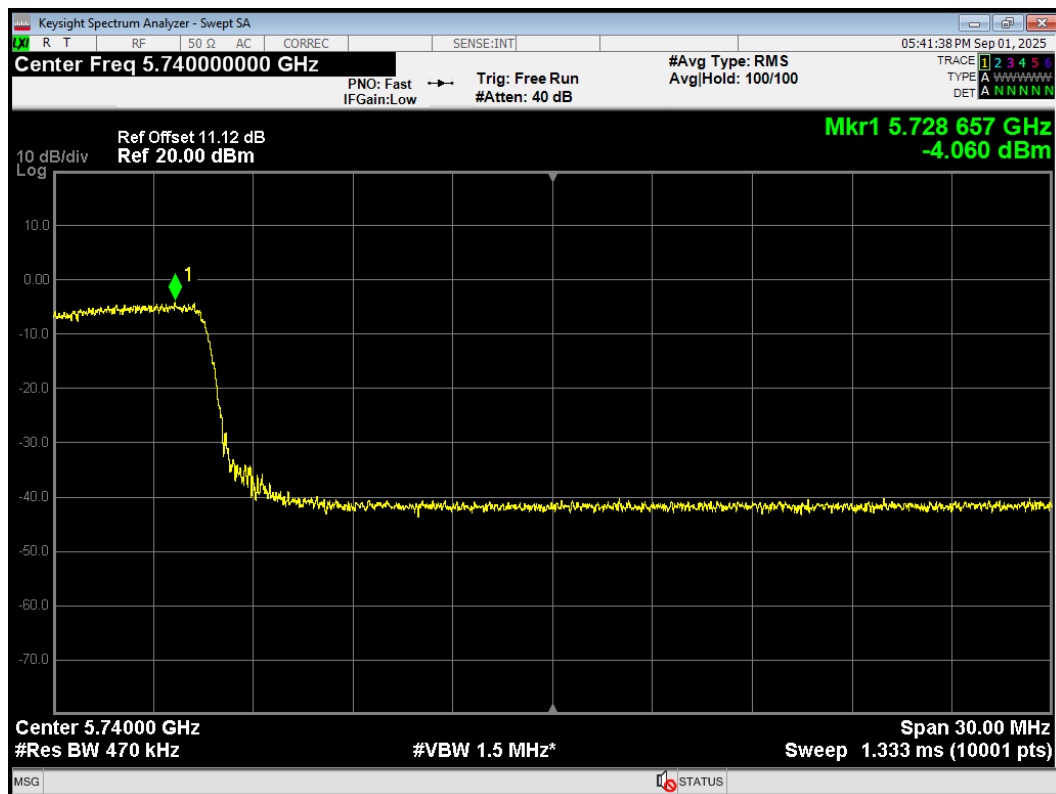
PSD 802.11ax(HE20) 106T 5720MHz Ant2



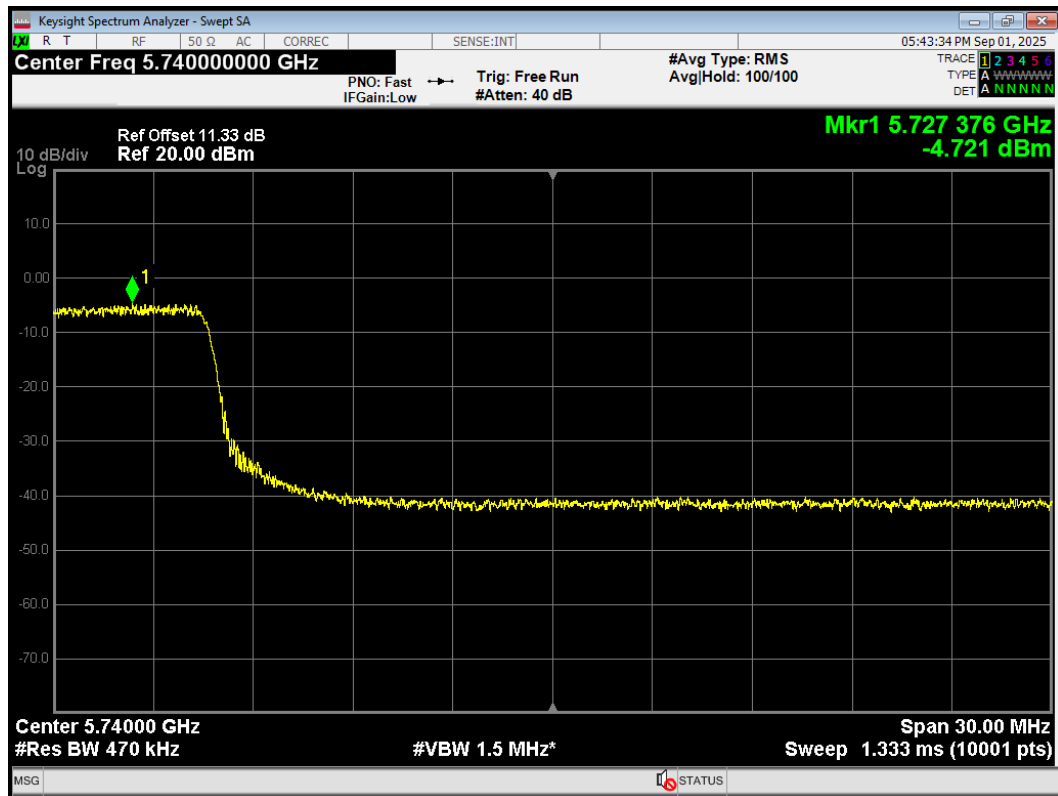
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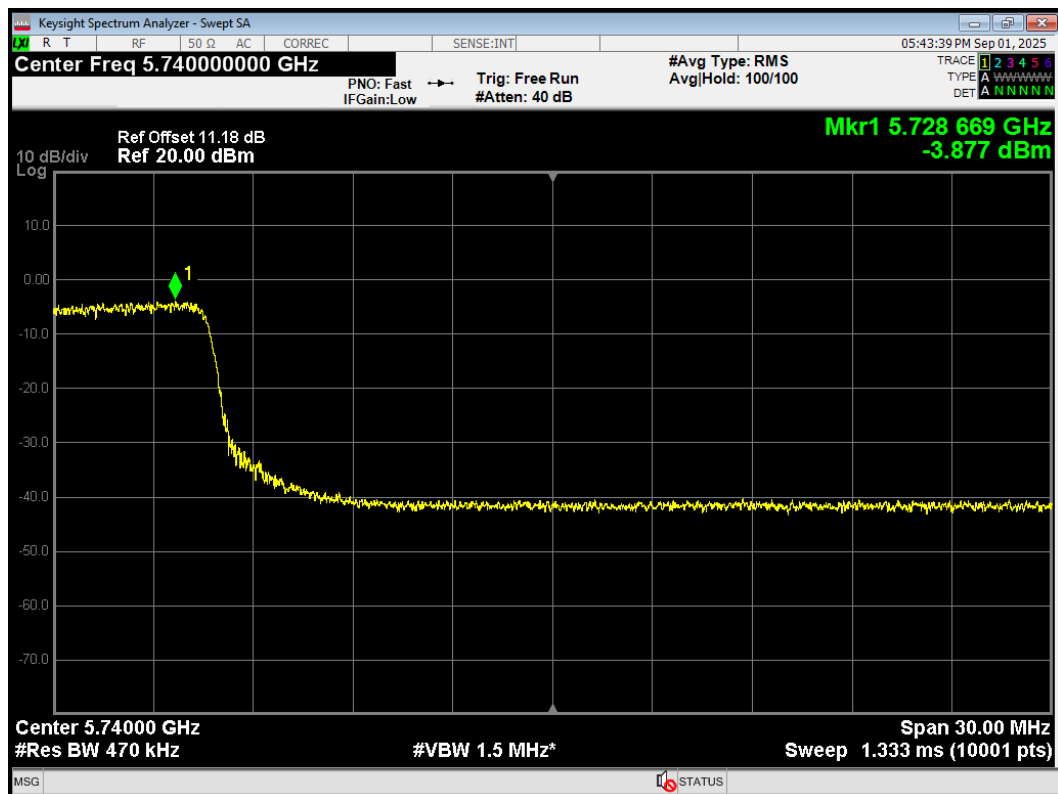
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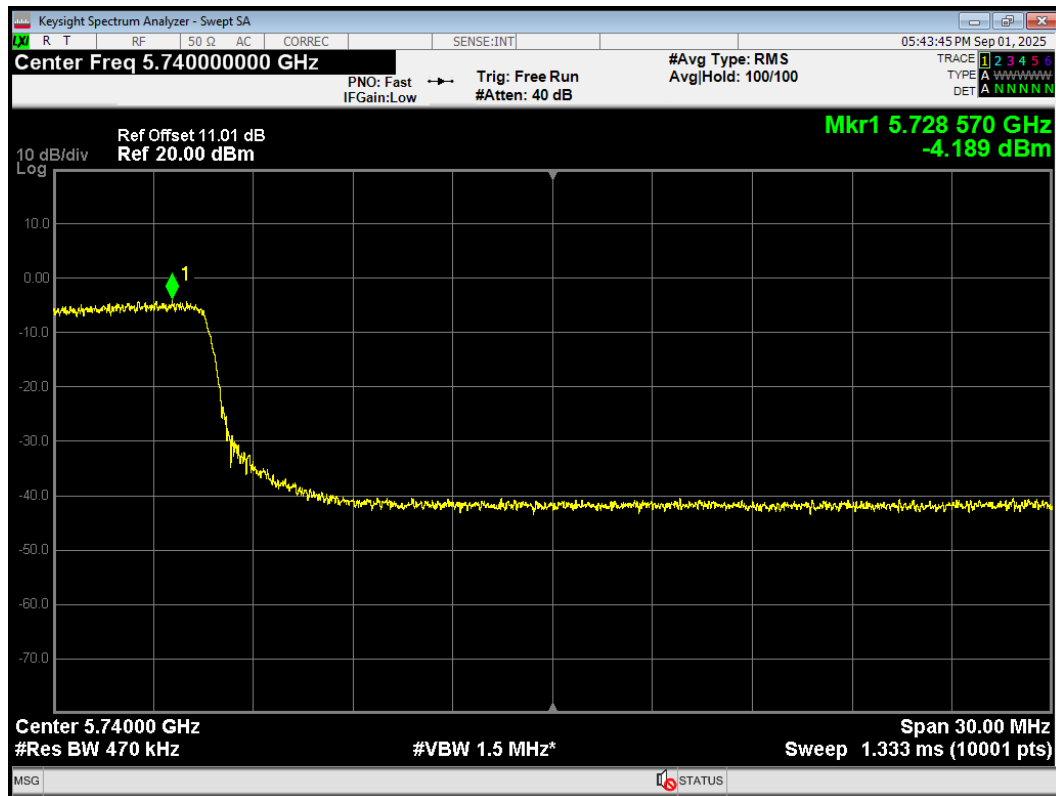
PSD 802.11ax(HE20) 242T 5720MHz Ant1



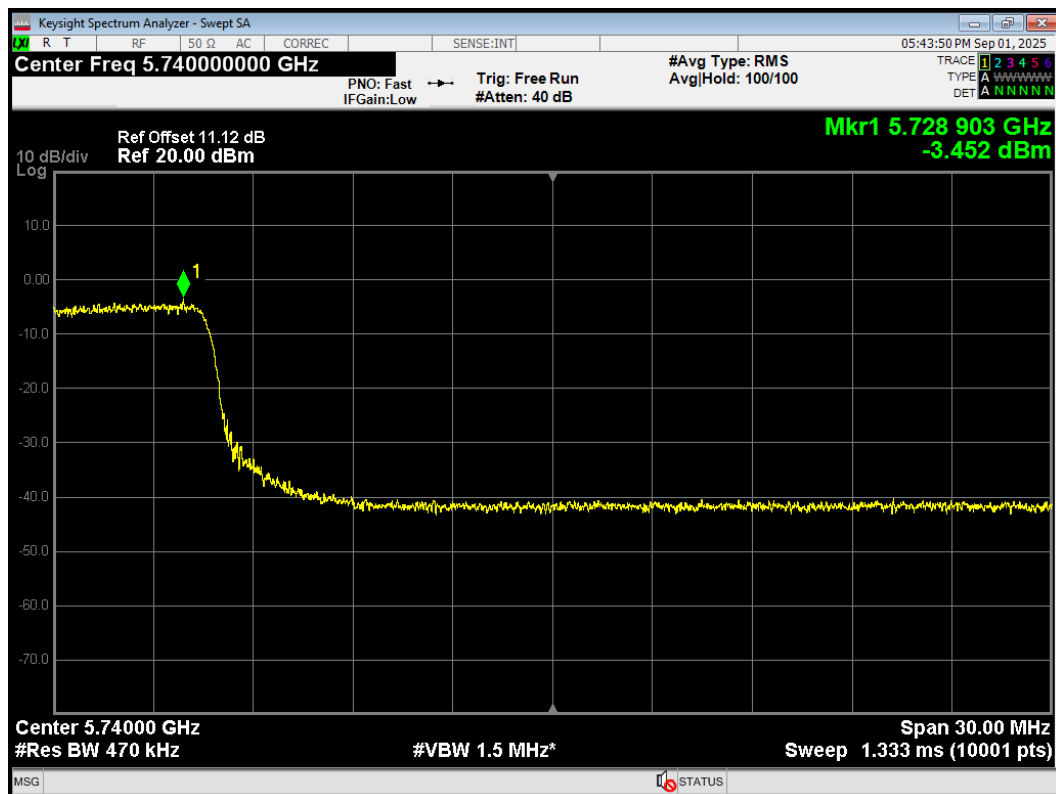
PSD 802.11ax(HE20) 242T 5720MHz Ant2



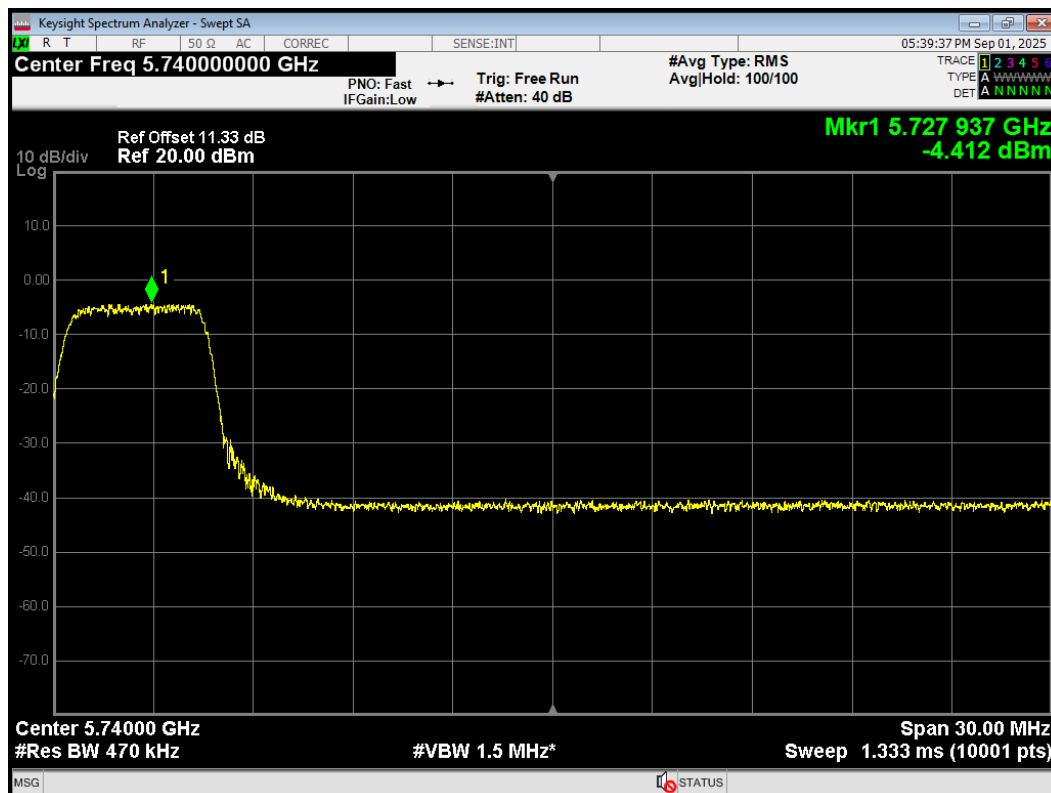
PSD 802.11ax(HE20) 242T 5720MHz Ant3



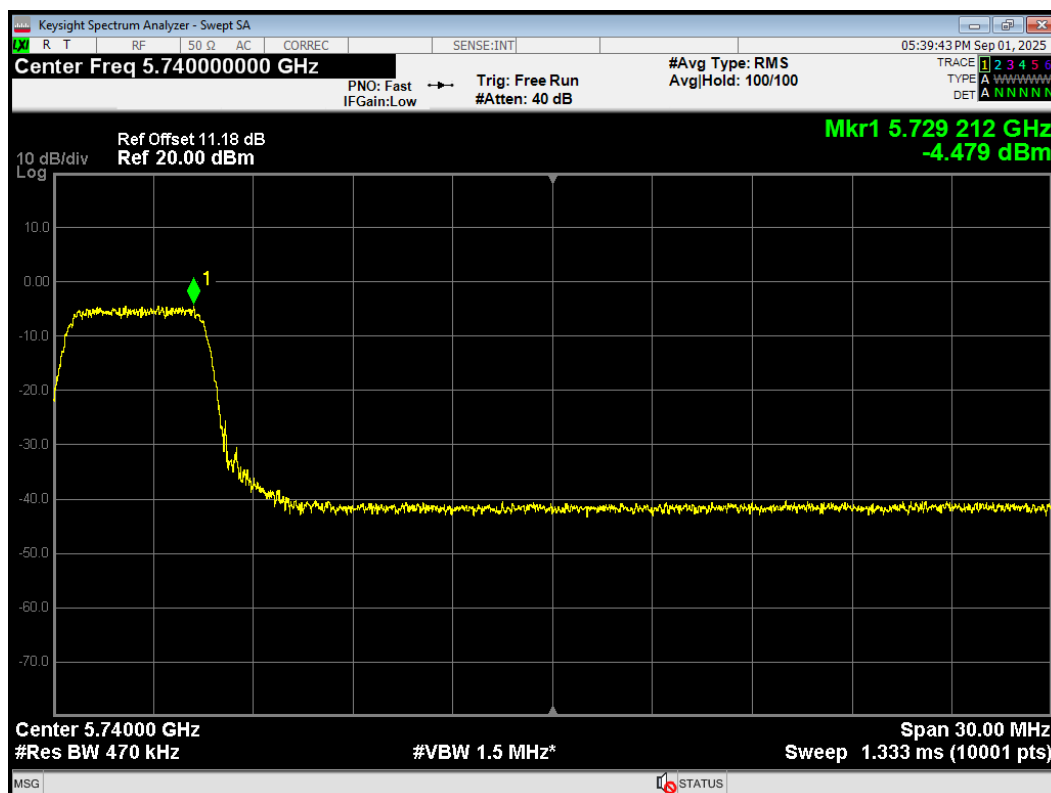
PSD 802.11ax(HE20) 242T 5720MHz Ant4



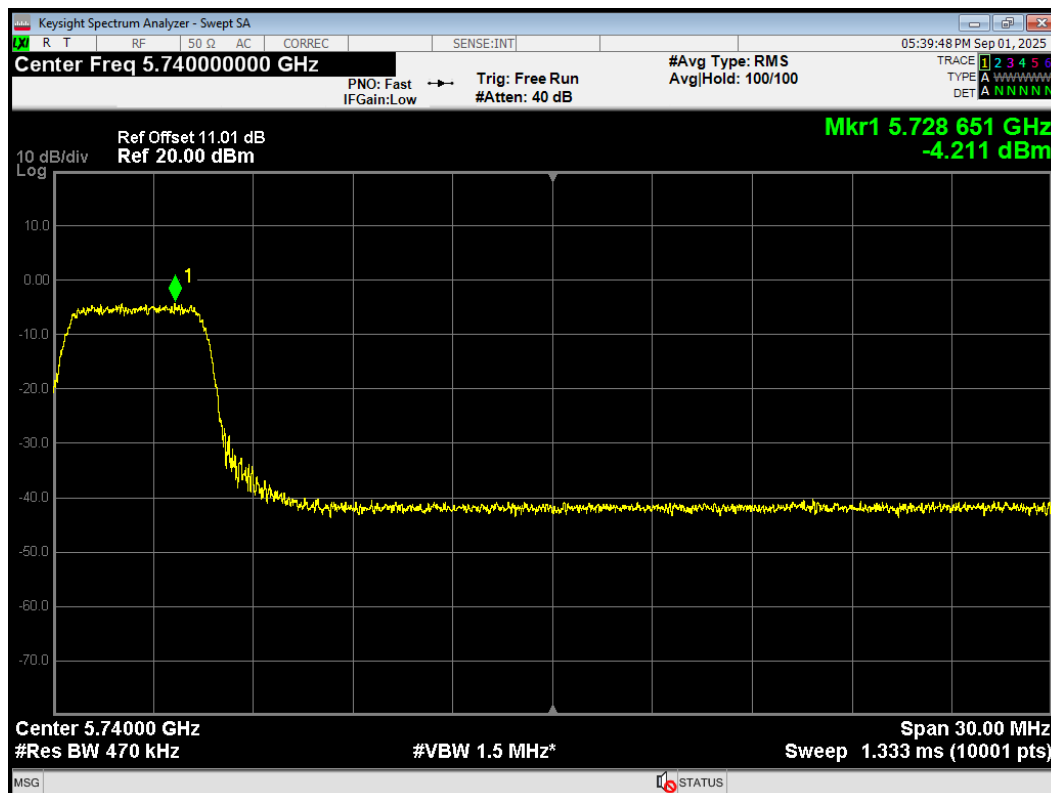
PSD 802.11ax(HE20) 52T 5720MHz Ant1



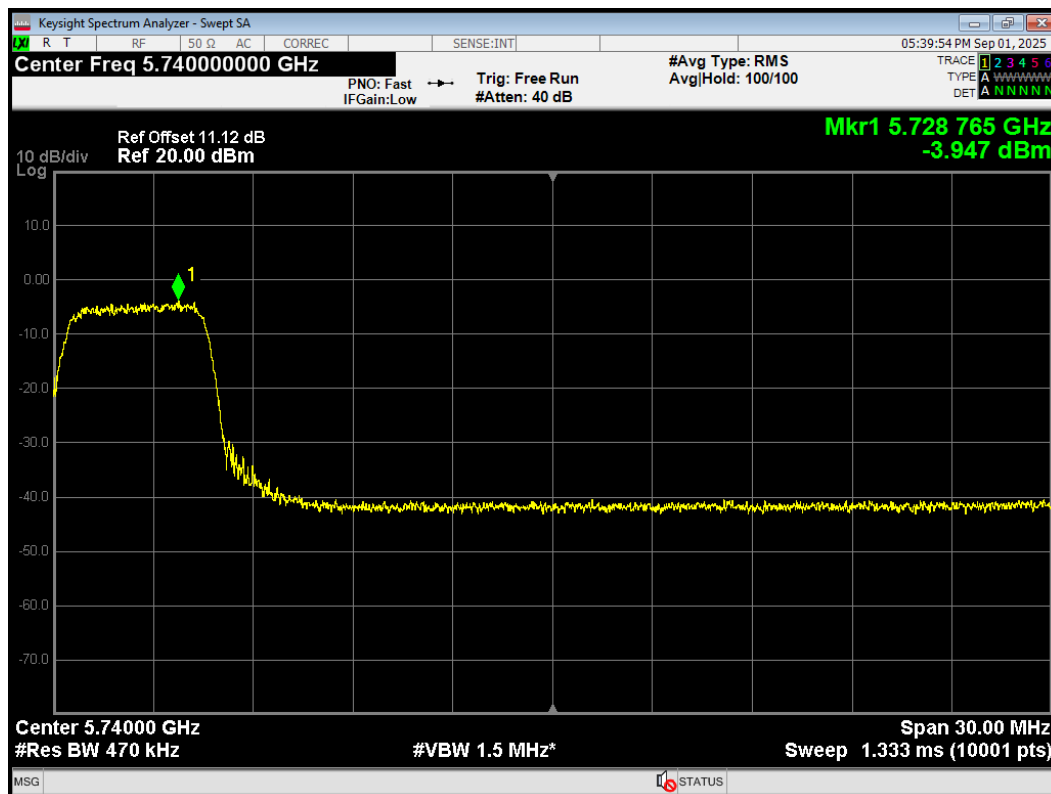
PSD 802.11ax(HE20) 52T 5720MHz Ant2



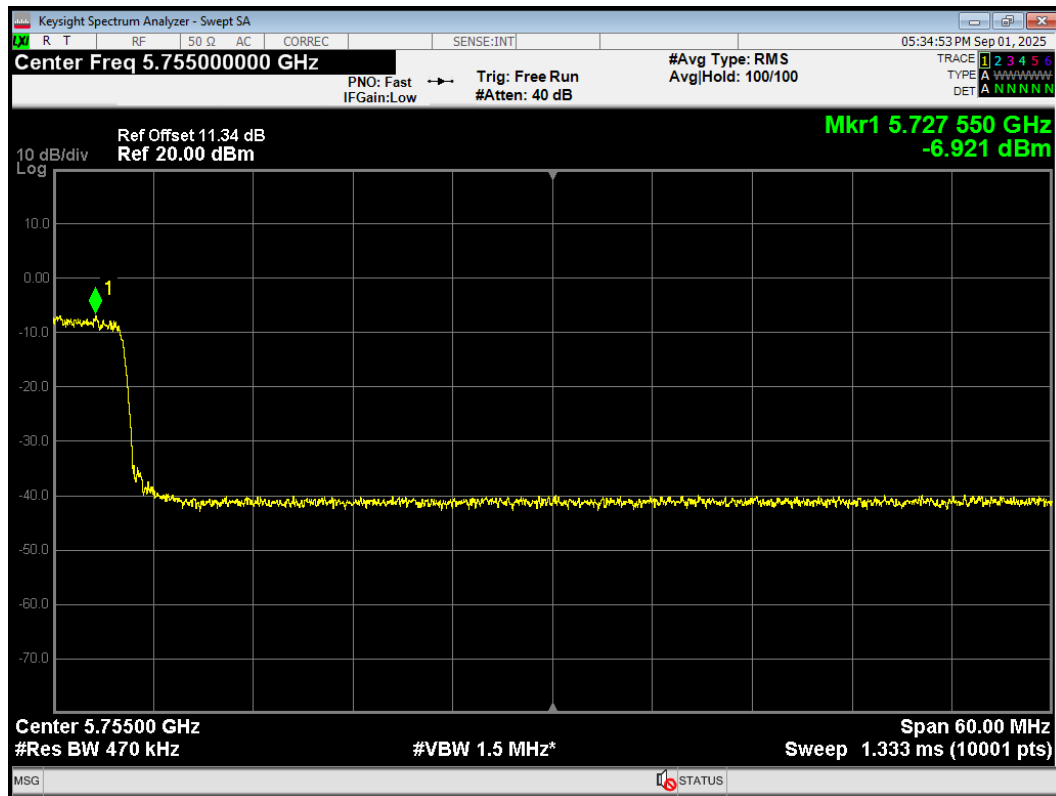
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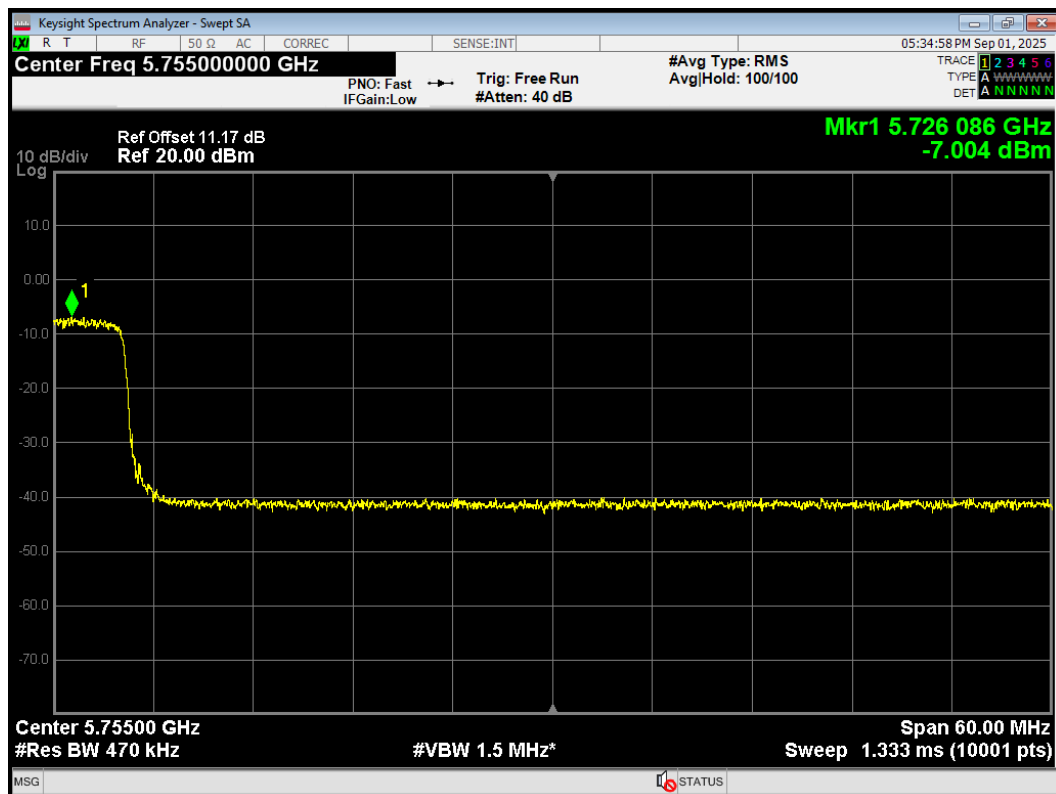
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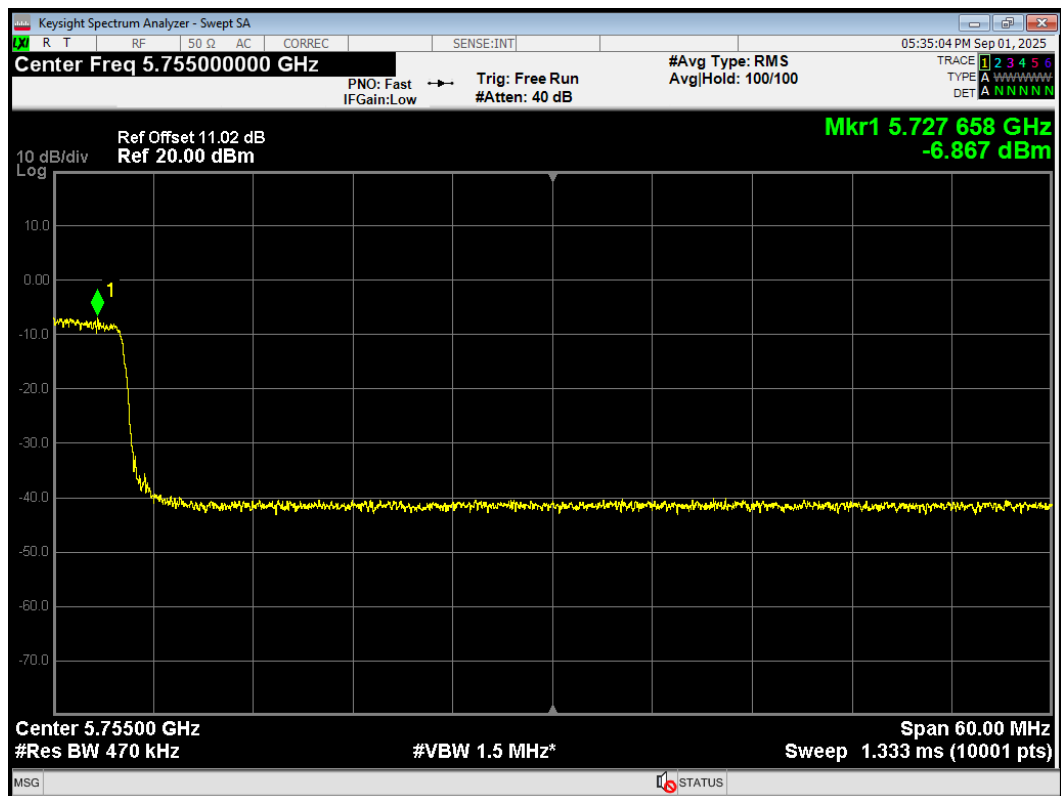
PSD 802.11ax(HE40) 484T 5710MHz Ant1



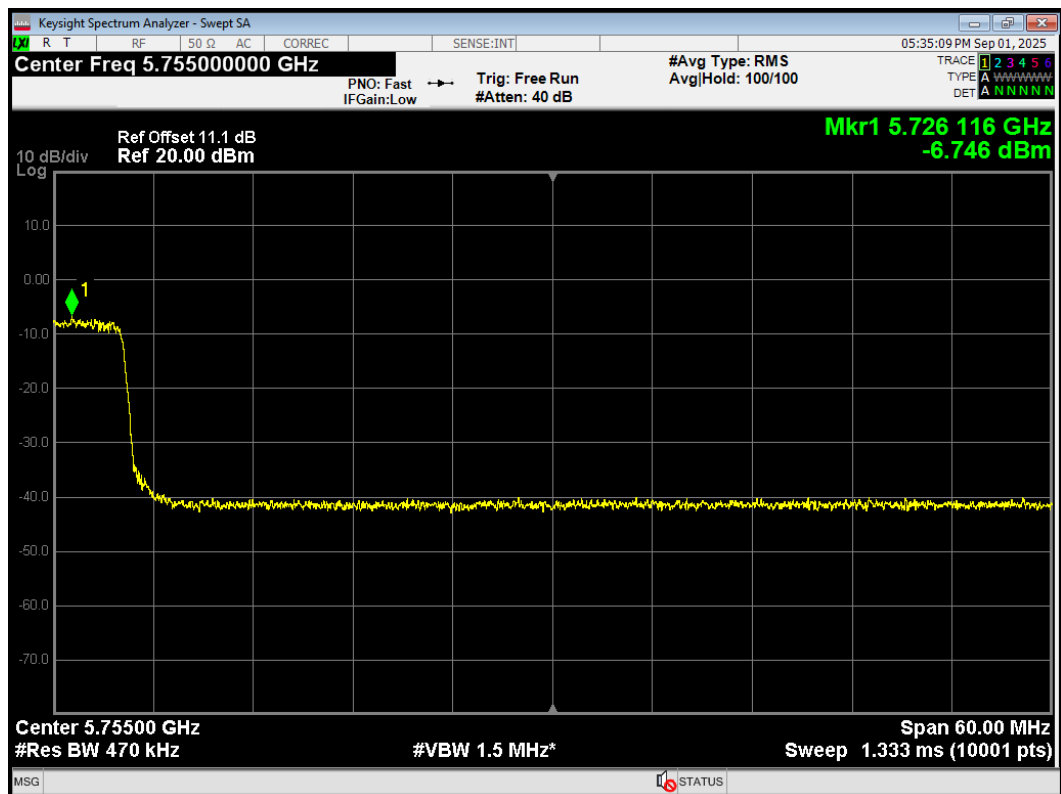
PSD 802.11ax(HE40) 484T 5710MHz Ant2



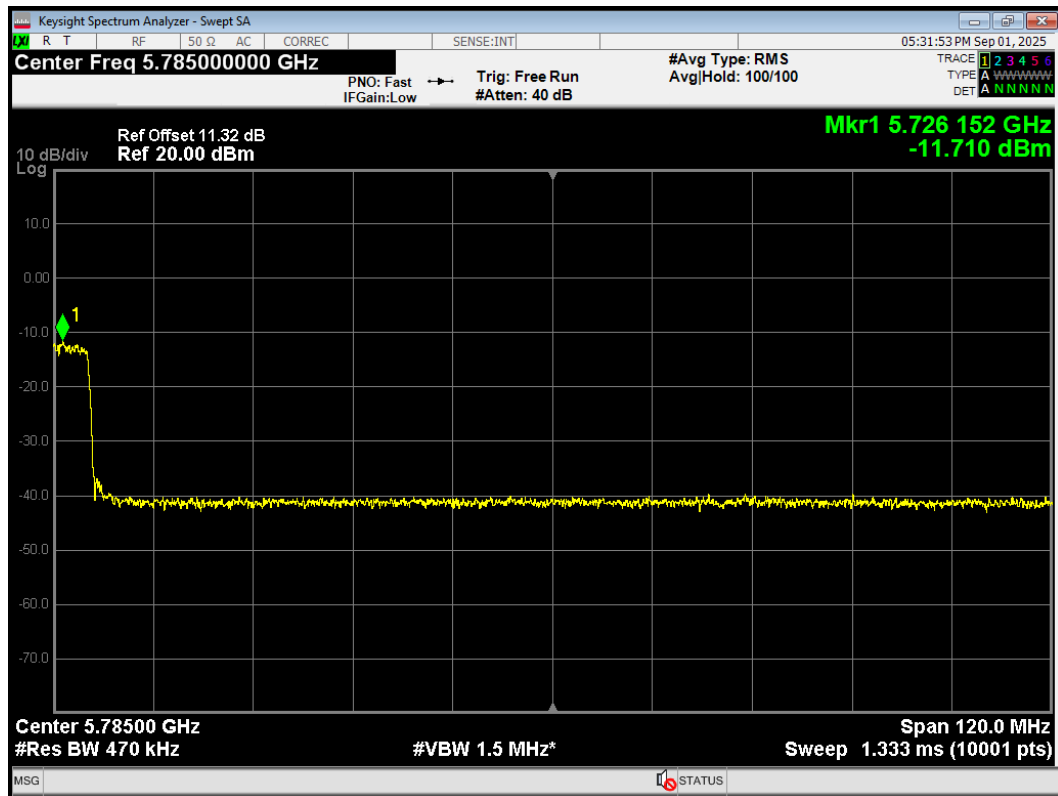
PSD 802.11ax(HE40) 484T 5710MHz Ant3



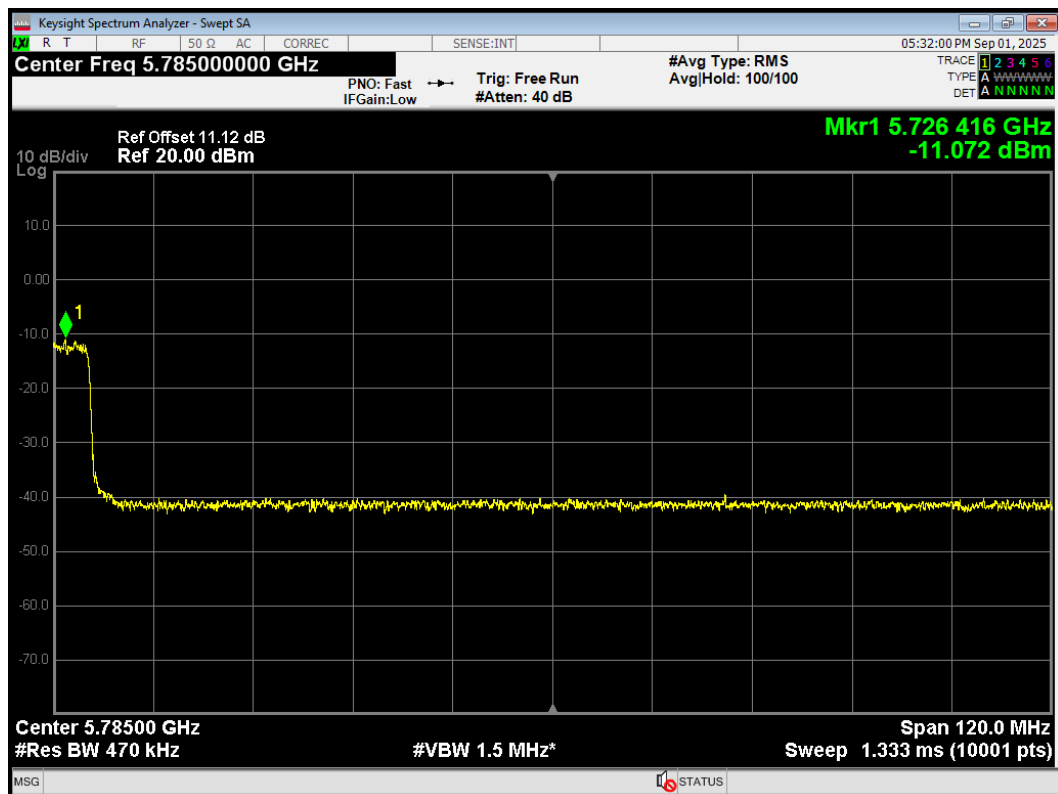
PSD 802.11ax(HE40) 484T 5710MHz Ant4



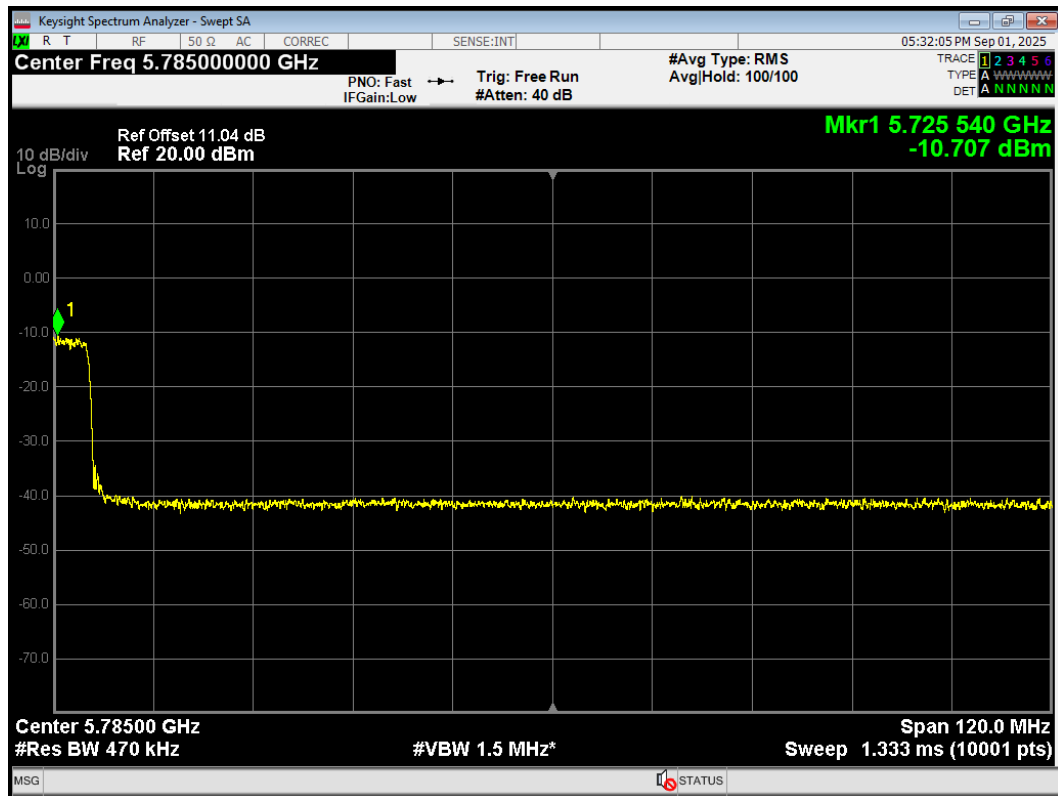
PSD 802.11ax(HE80) 996T 5690MHz Ant1



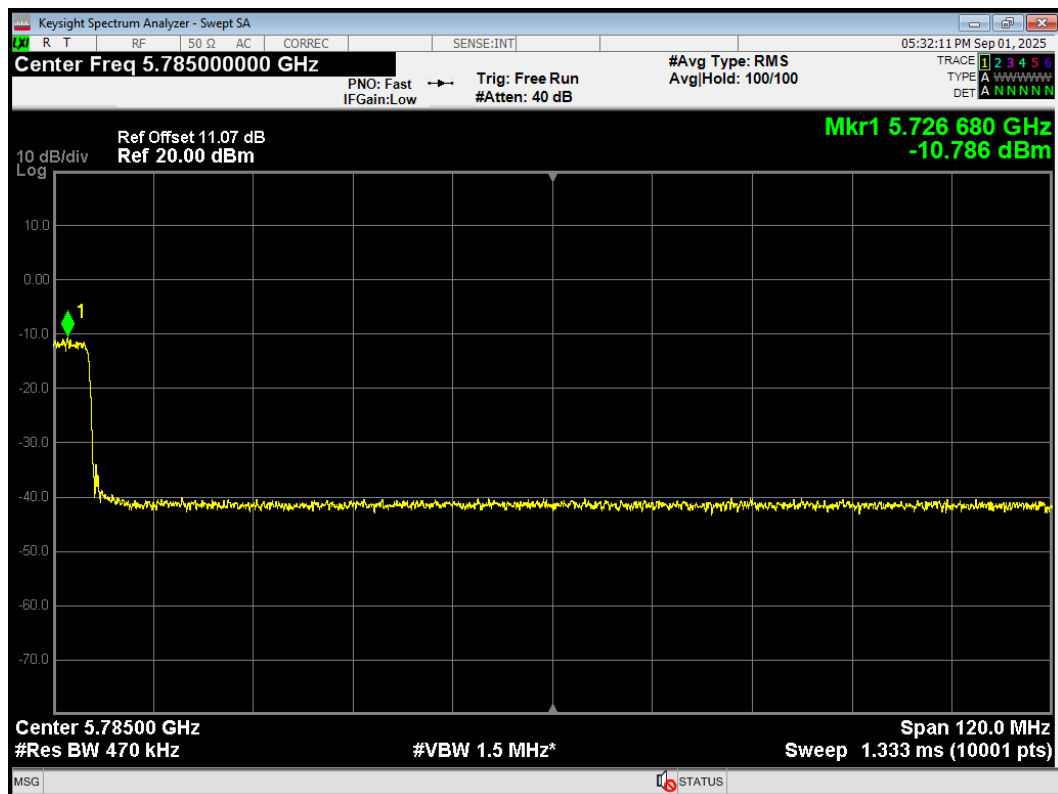
PSD 802.11ax(HE80) 996T 5690MHz Ant2



PSD 802.11ax(HE80) 996T 5690MHz Ant3



PSD 802.11ax(HE80) 996T 5690MHz Ant4



5.5. Unwanted Emission

Ambient condition

Temperature	Relative humidity	Pressure
15°C ~ 35°C	20% ~ 80%	86 kPa ~ 106 kPa

Method of Measurement

The test set-up was made in accordance to the general provisions of ANSI C63.10. The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The test was performed at the distance of 3 m between the EUT and the receiving antenna. The radiated emissions measurements were made in a typical installation configuration.

Sweep the whole frequency band range from 9kHz to the 10th harmonic of the carrier, and the emissions less than 20 dB below the permissible value are reported.

During the test, the height of receive antenna shall be moved from 1 to 4 meters, and the antenna shall be performed under horizontal and vertical polarization. The turntable shall be rotated from 0 to 360 degrees for detecting the maximum of radiated spurious signal level. The measurements shall be repeated with orthogonal polarization of the test antenna. The data of cable loss and antenna factor has been calibrated in full testing frequency range before the testing.

Set the spectrum analyzer in the following:

9kHz~150 kHz

RBW=200Hz, VBW=1kHz/ Sweep=AUTO

150 kHz~30MHz

RBW=9kHz, VBW=30kHz,/ Sweep=AUTO

Below 1GHz

RBW=100kHz / VBW=300kHz / Sweep=AUTO

a) Peak emission levels are measured by setting the instrument as follows:

Above 1GHz

PEAK: RBW=1MHz VBW=3MHz/ Sweep=AUTO

b) Average emission levels are measured by setting the instrument as follows:

Above 1GHz

AVERAGE: RBW=1MHz / VBW=3MHz / Sweep=AUTO

c) Detector: The measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)

e) Sweep time = auto.

f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and

OFF with the transmit cycle, at least 100 traces shall be averaged.)

g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.

2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is $[20 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

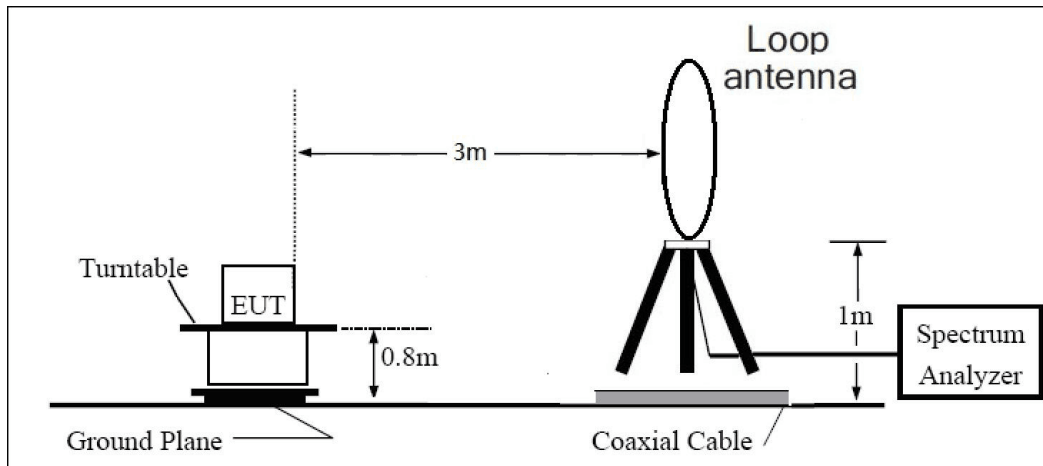
Reduce the video bandwidth until no significant variations in the displayed signal are observed in subsequent traces, provided the video bandwidth is no less than 1 Hz. For regulatory requirements that specify averaging only over the transmit duration (e.g., digital transmission system [DTS] and Unlicensed National Information Infrastructure [U-NII]), the video bandwidth shall be greater than $[1 / (\text{minimum transmitter on time})]$ and no less than 1 Hz.

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the loop antenna is vertical, others antenna are vertical and horizontal.

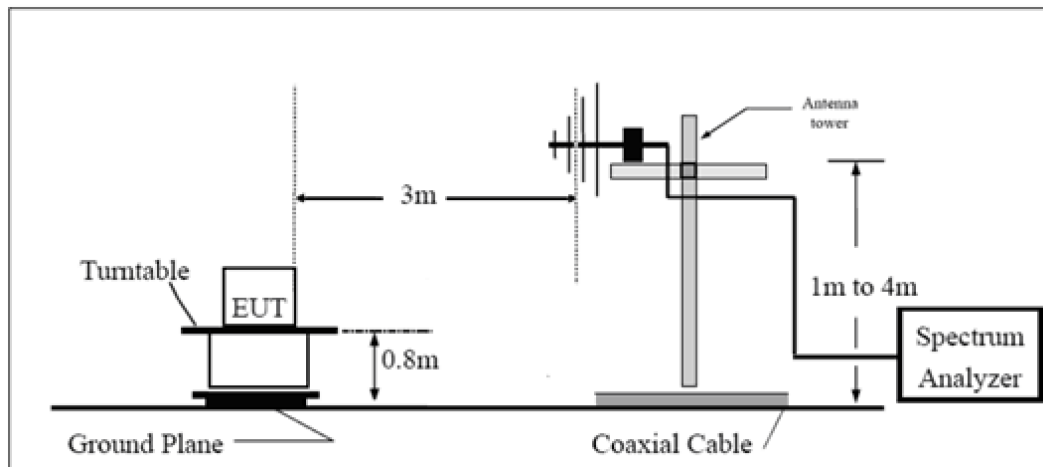
The test is in transmitting mode.

Test setup

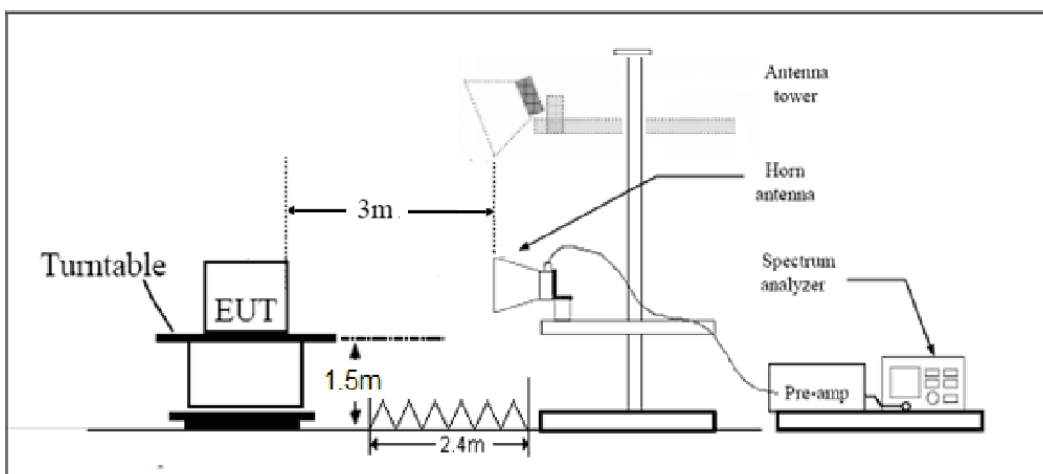
9kHz~ 30MHz



30MHz~ 1GHz



Above 1GHz



Note: Area side:2.4mX3.6m

Limits

- (1) For transmitters operating in the 5725-5850 MHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).
- (3) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).
- (4) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz(68.2dBμV/m).

Note: the following formula is used to convert the EIRP to field strength

§1、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] - 20 \log(d[\text{meters}]) + 104.77$, where E = field strength and

d = distance at which field strength limit is specified in the rules;

§2、 $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$, for d = 3 meters

- (5) Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table.

Frequency of emission (MHz)	Field strength(μV/m)	Field strength(dBμV/m)
0.009–0.490	2400/F(kHz)	/
0.490–1.705	24000/F(kHz)	/
1.705–30.0	30	/
30-88	100	40
88-216	150	43.5
216-960	200	46
Above960	500	54

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

Measurement Uncertainty

The assessed measurement uncertainty to ensure 95% confidence level for the normal distribution is with the coverage factor $k = 1.96$.

Frequency	Uncertainty
9kHz-30MHz	3.55 dB
30MHz-200MHz	4.17 dB
200MHz-1GHz	4.84 dB
1-18GHz	4.35 dB
18-26.5GHz	5.90 dB
26.5GHz~40GHz	5.92 dB

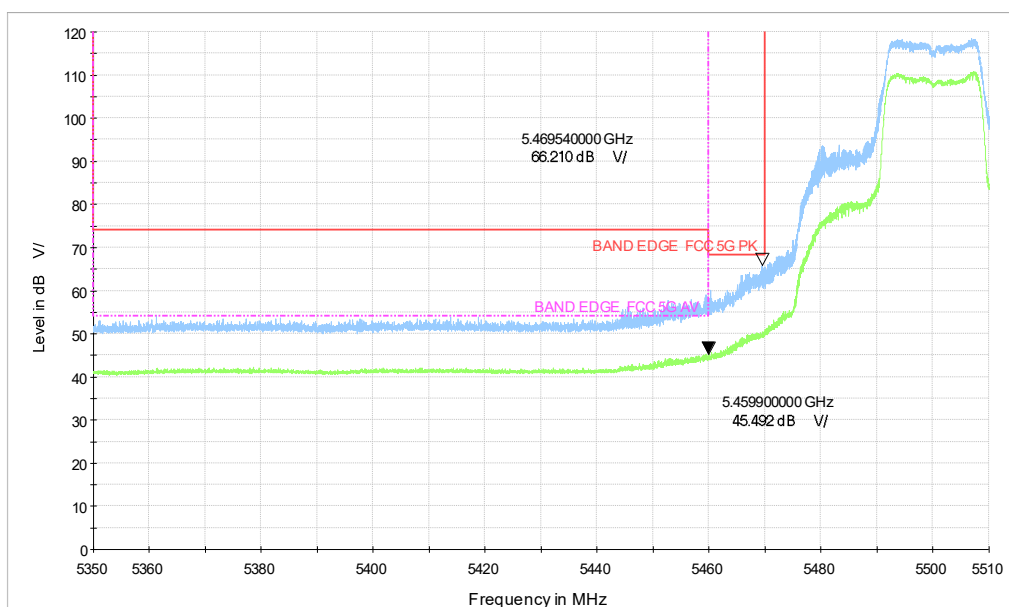
Test Results:

The following graphs display the maximum values of horizontal and vertical by software.
Blue trace uses the peak detection, Green trace uses the average detection.

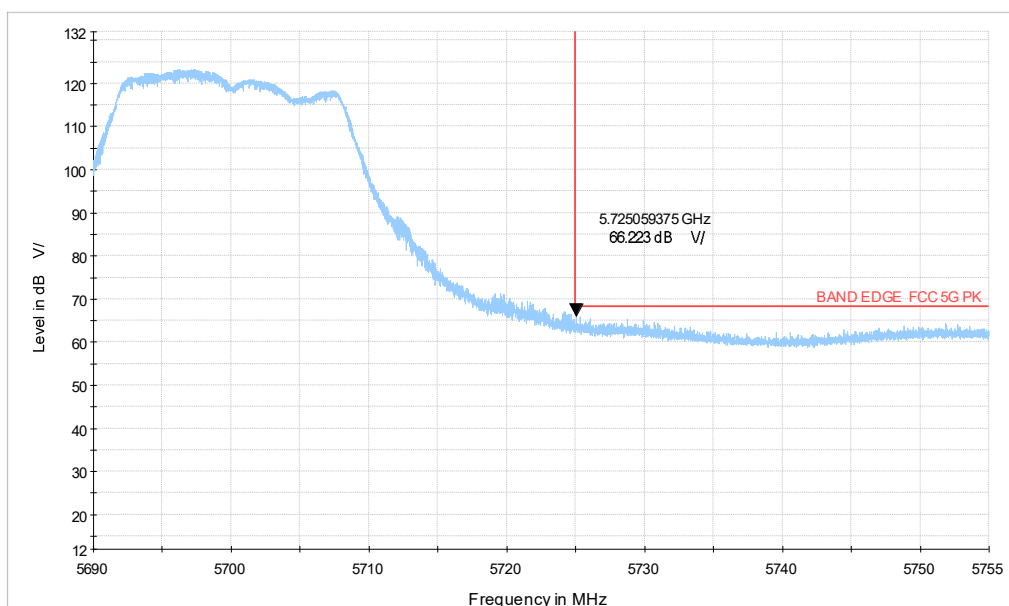
The modulation and bandwidth are similar for 802.11n mode for 20MHz/40MHz and 802.11ac mode for V20MHz/V40MHz, therefore investigated worst case to representative mode in test report.

A symbol ($\text{dB } \mu\text{V/m}$) in the test plot below means ($\text{dB}\mu\text{V/m}$)

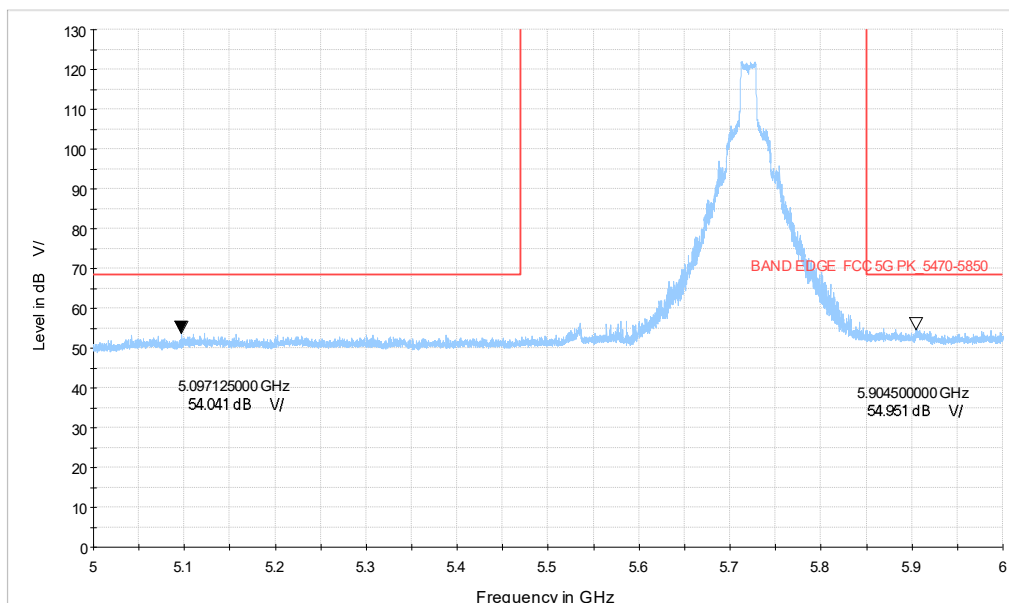
The signal beyond the limit is carrier.



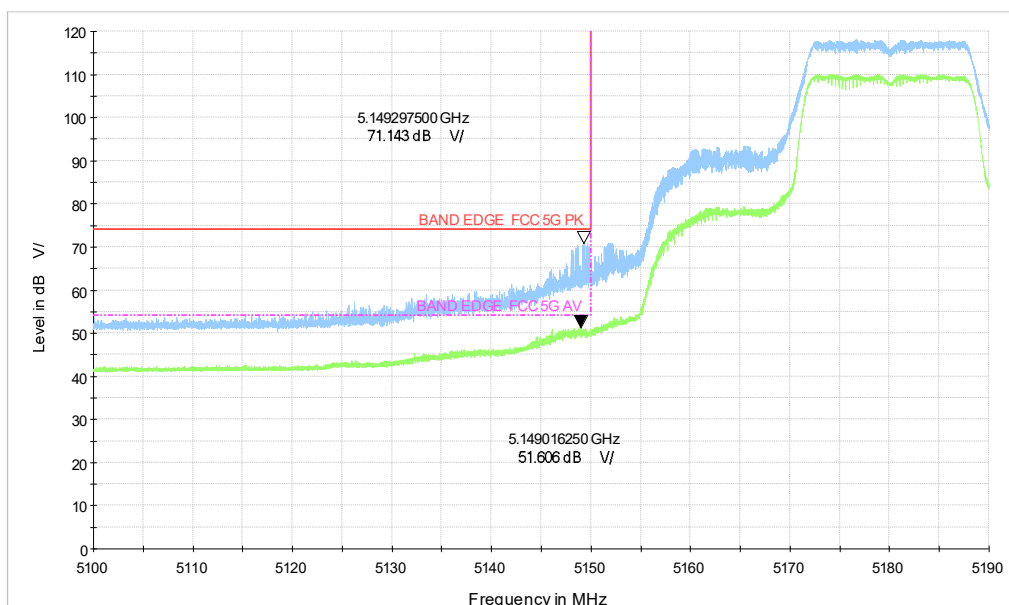
5G WIFI_a CH100_5.35-5.51GHz_6M



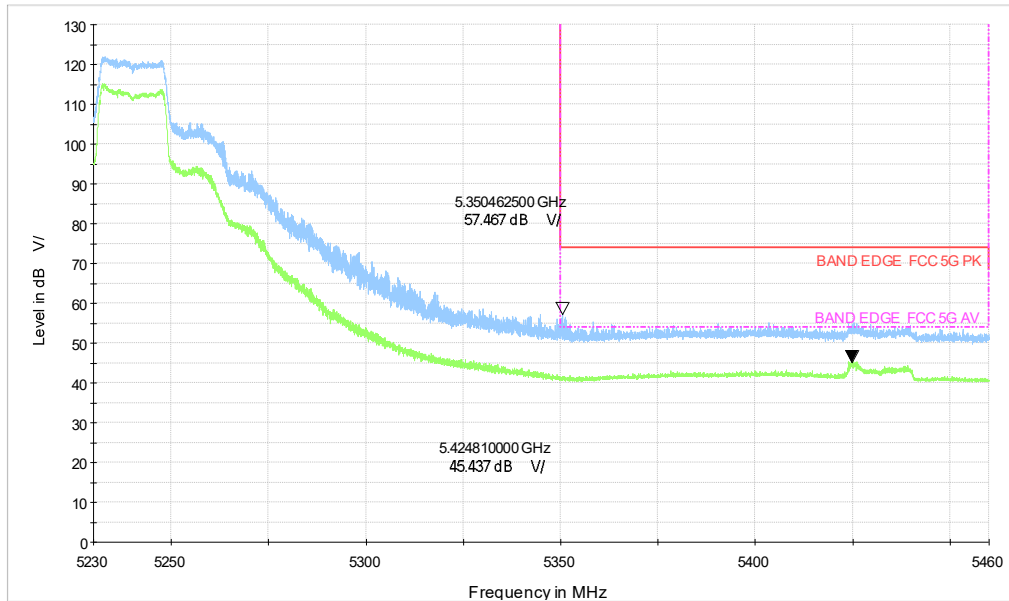
5G WIFI_a CH140_5.69-5.755GHz



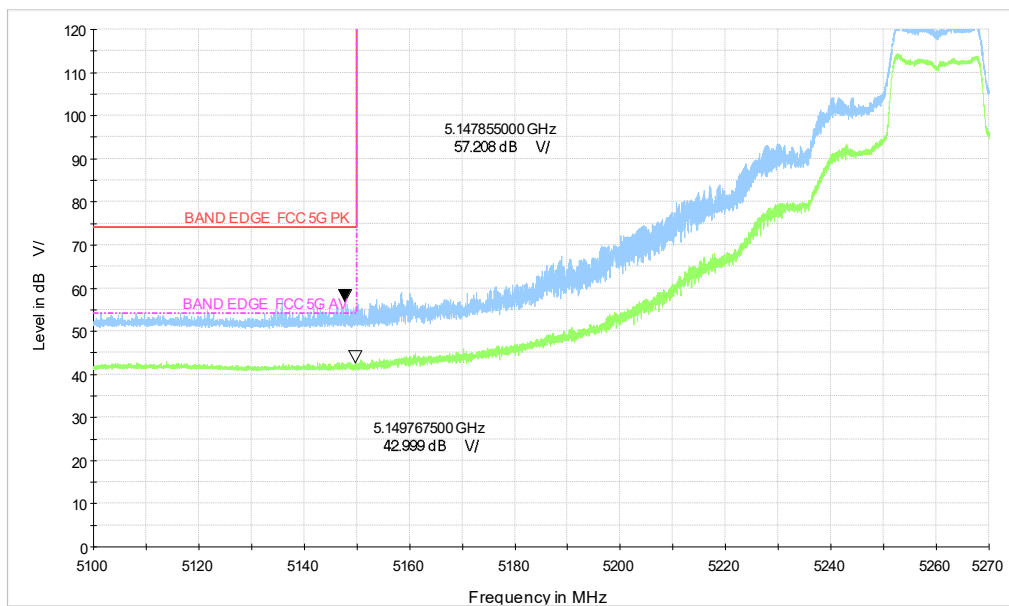
5G WIFI_a CH144_5-6GHz_6M



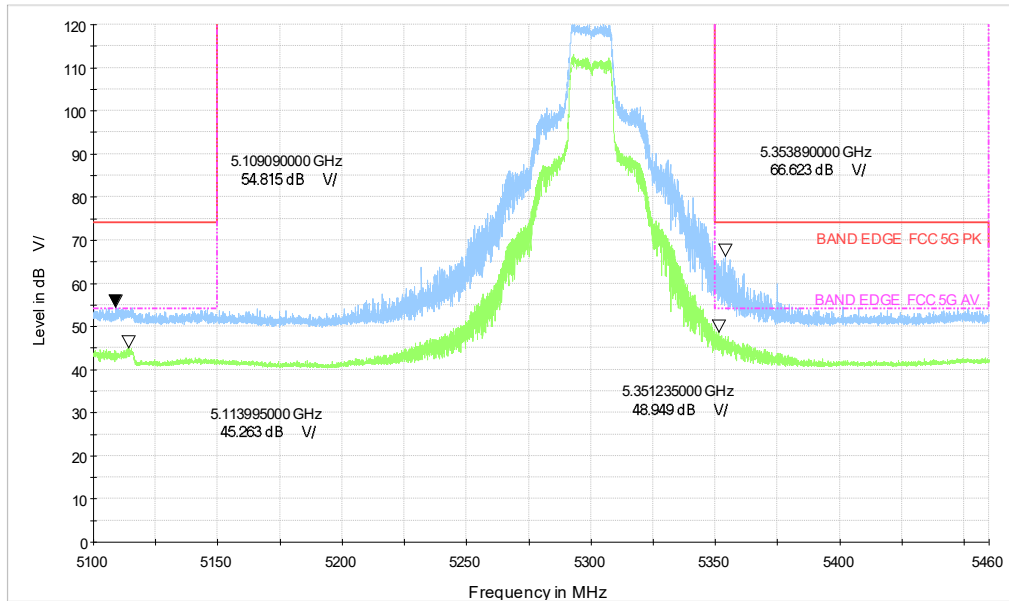
5G WIFI_a CH36_5.1-5.19GHz_6M



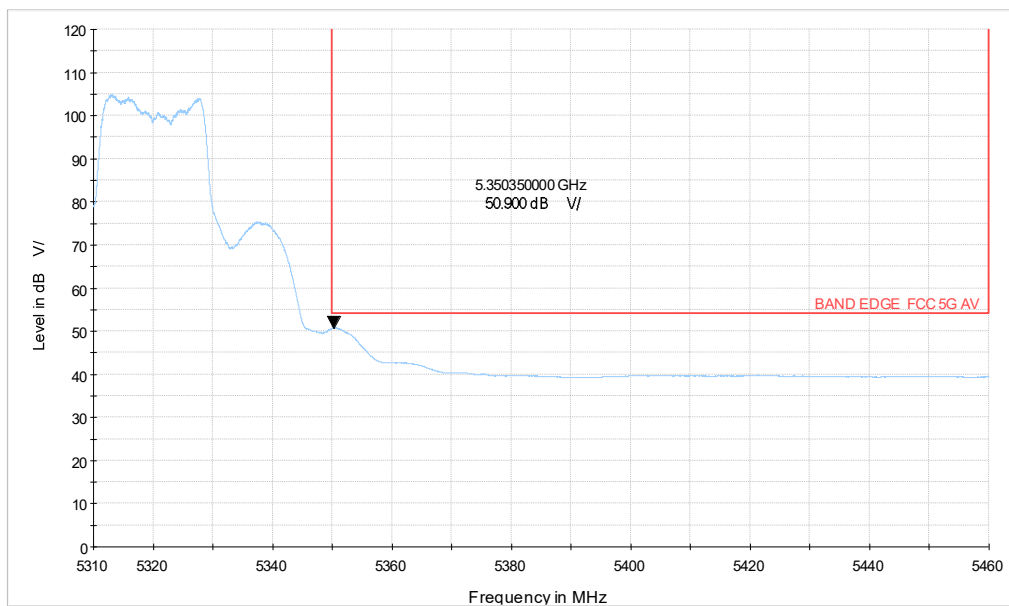
5G WIFI_a CH48_5.23-5.46GHz_6M



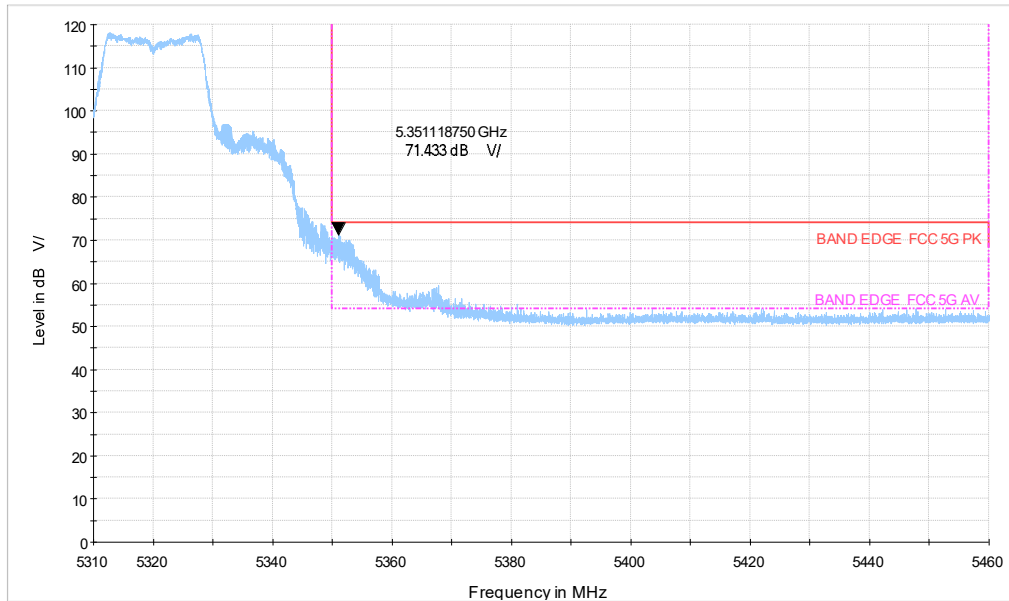
5G WIFI_a CH52_5.1-5.27GHz_6M



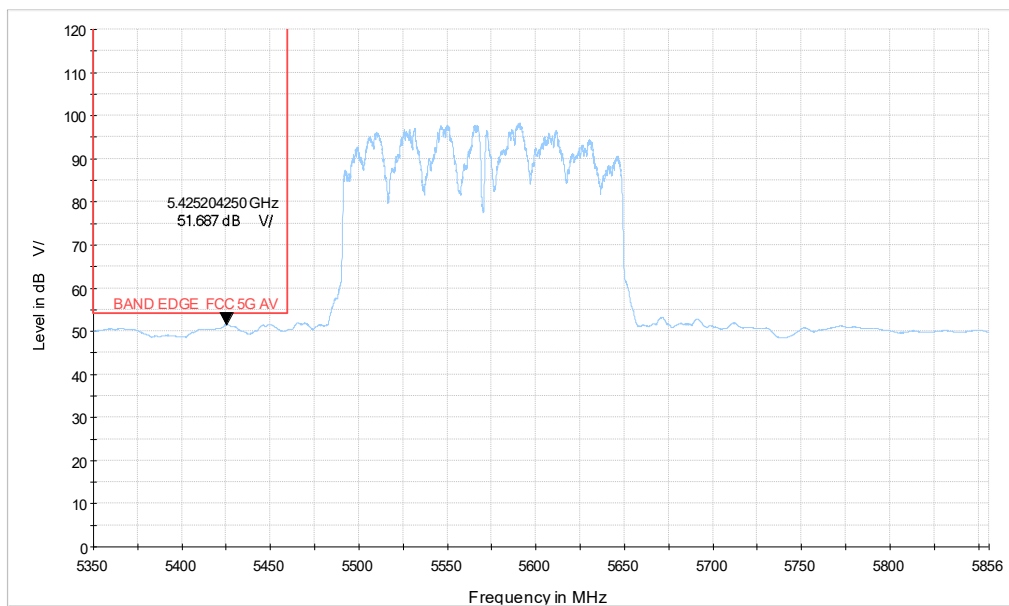
5G WIFI_a CH60_5.1-5.46GHz_6M



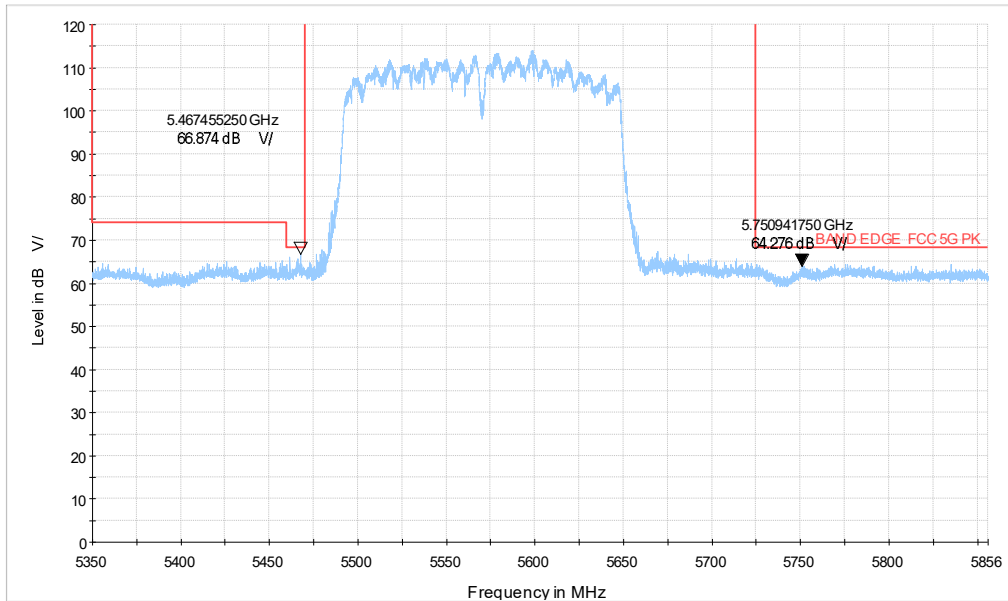
5G WIFI_a CH64_5.31-5.46GHz_6M_AV



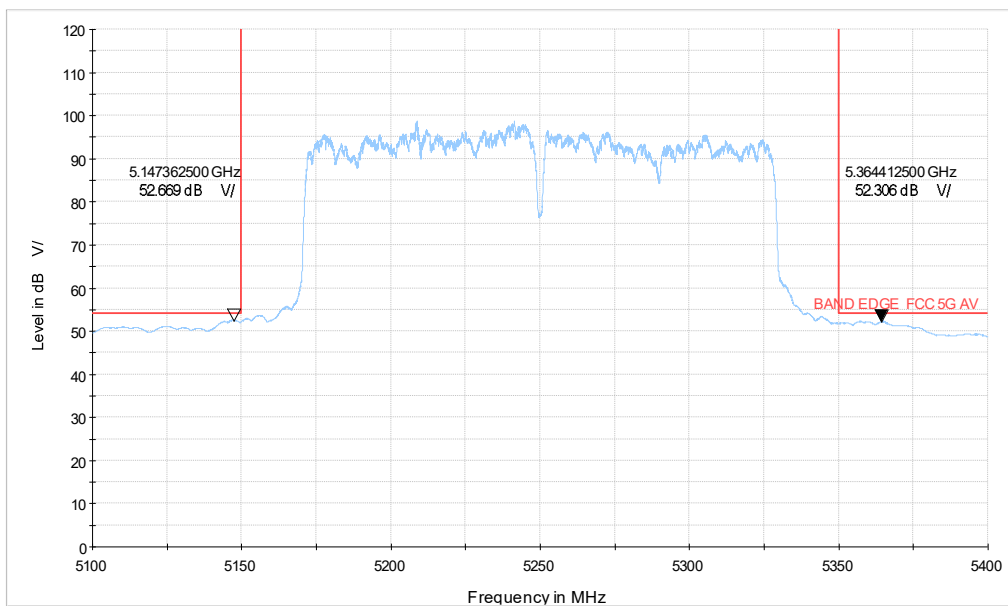
5G WIFI_a CH64_5.31-5.46GHz_6M_PK



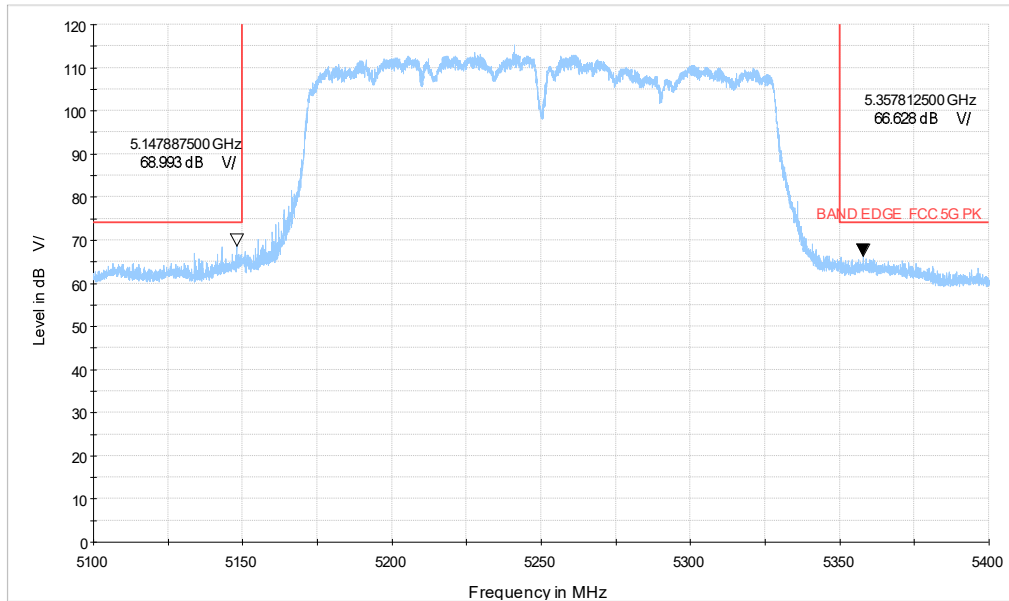
5G WIFI_ac160 CH114_5.35-5.856GHz_AV



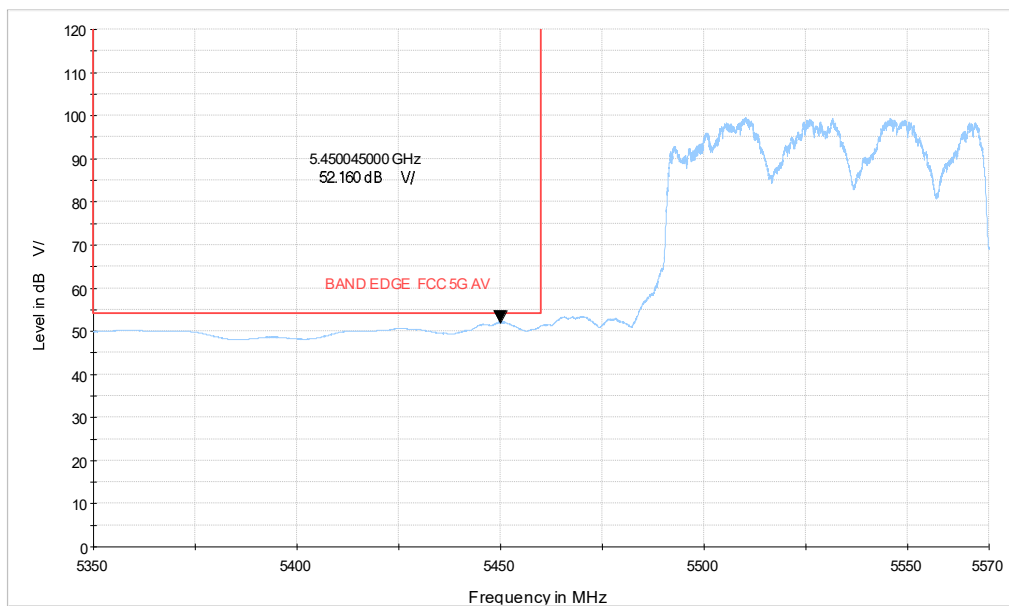
5G WIFI_ac160 CH114_5.35-5.856GHz_PK



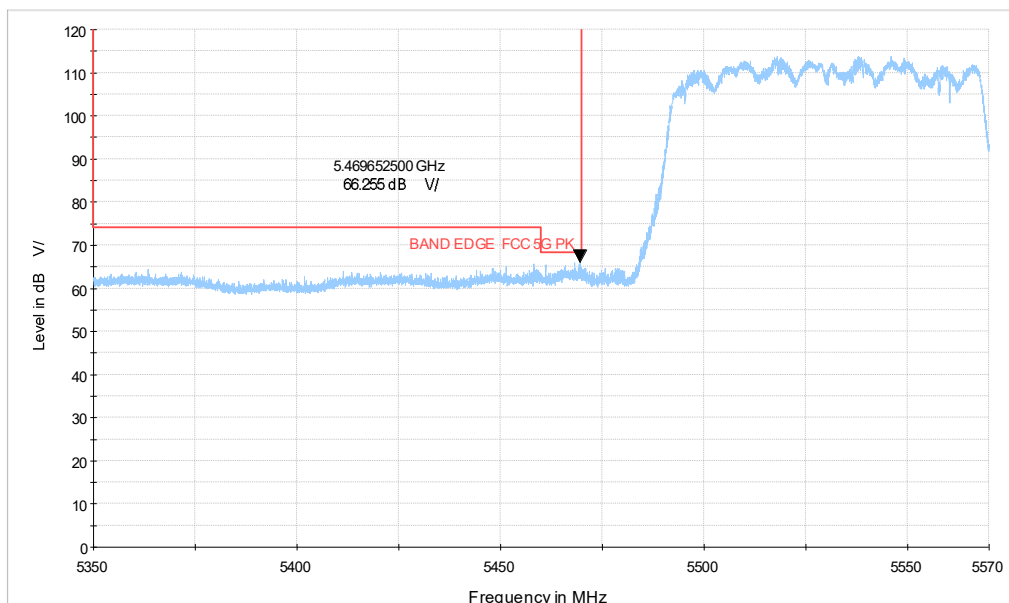
5G WIFI_ac160 CH50_5.1-5.4GHz_AV



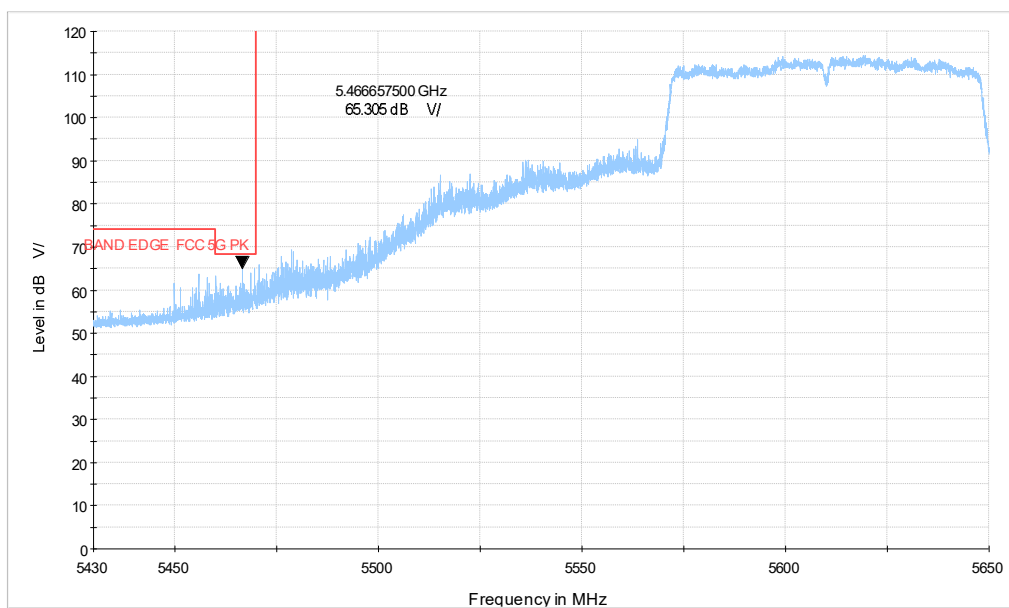
5G WIFI_ac160 CH50_5.1-5.4GHz_PK



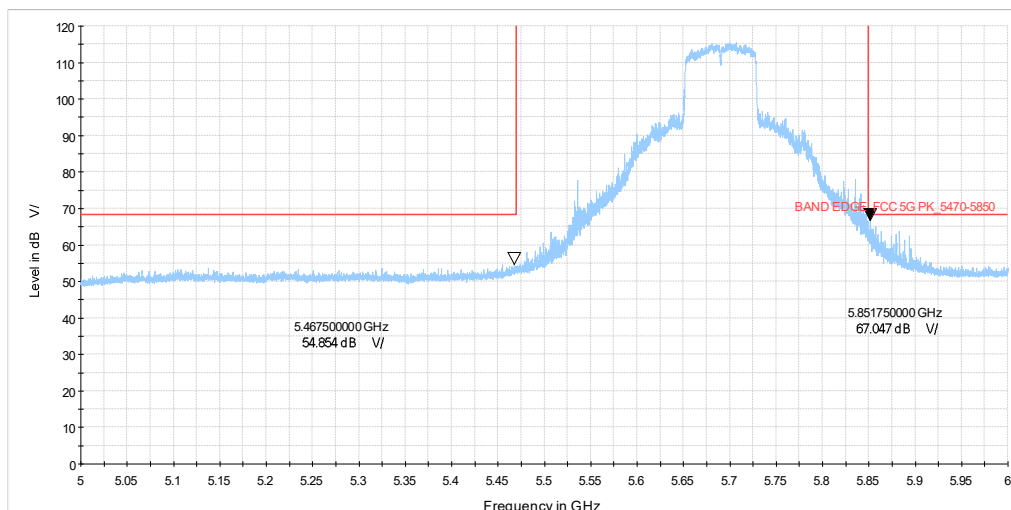
5G WIFI_ac80 CH106_5.35-5.57GHz_AV



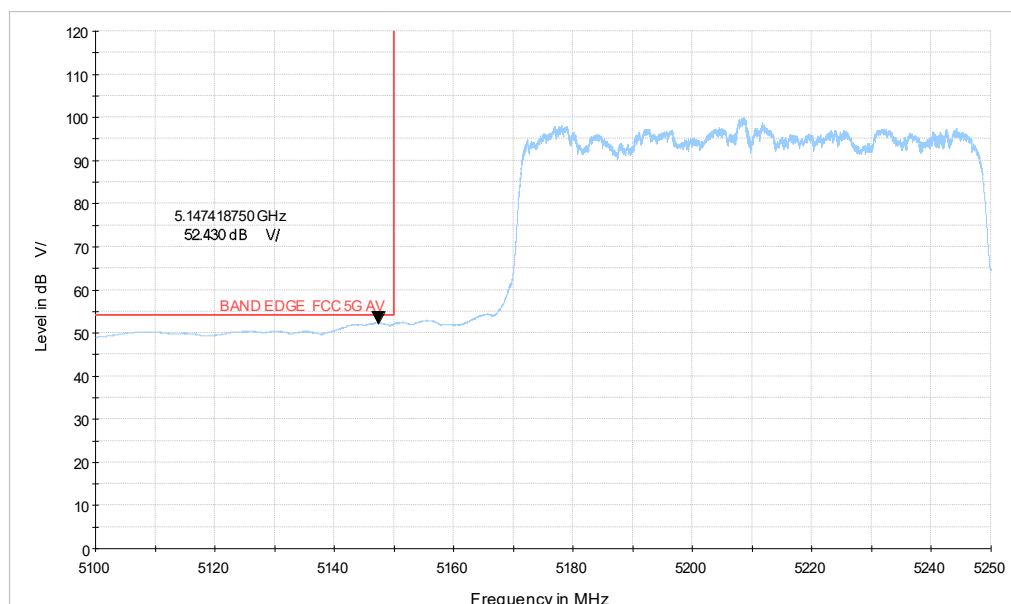
5G WIFI_ac80 CH106_5.35-5.57GHz_PK



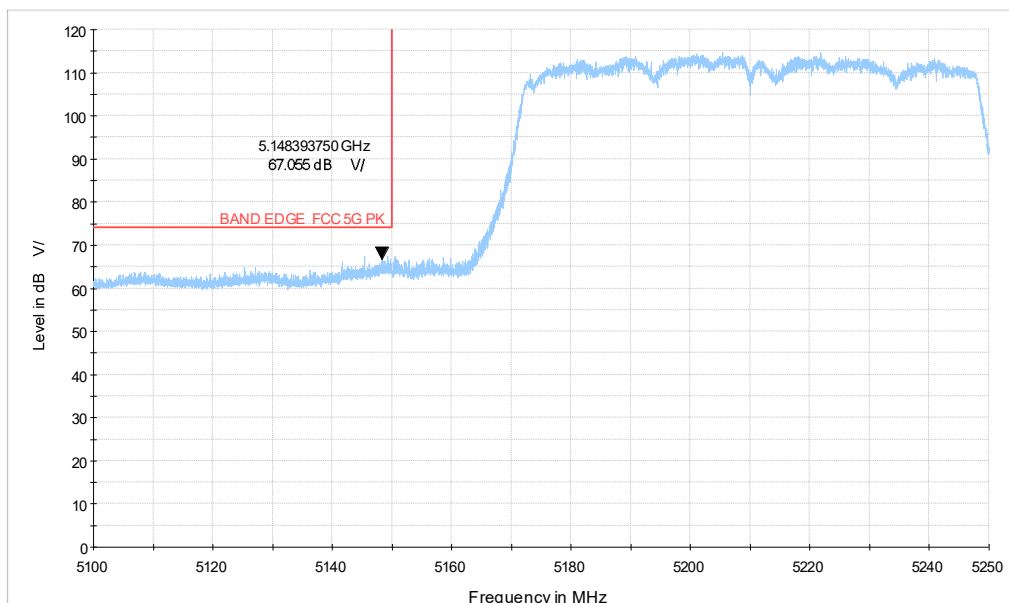
5G WIFI_ac80 CH122_5.43-5.65GHz_MCS0



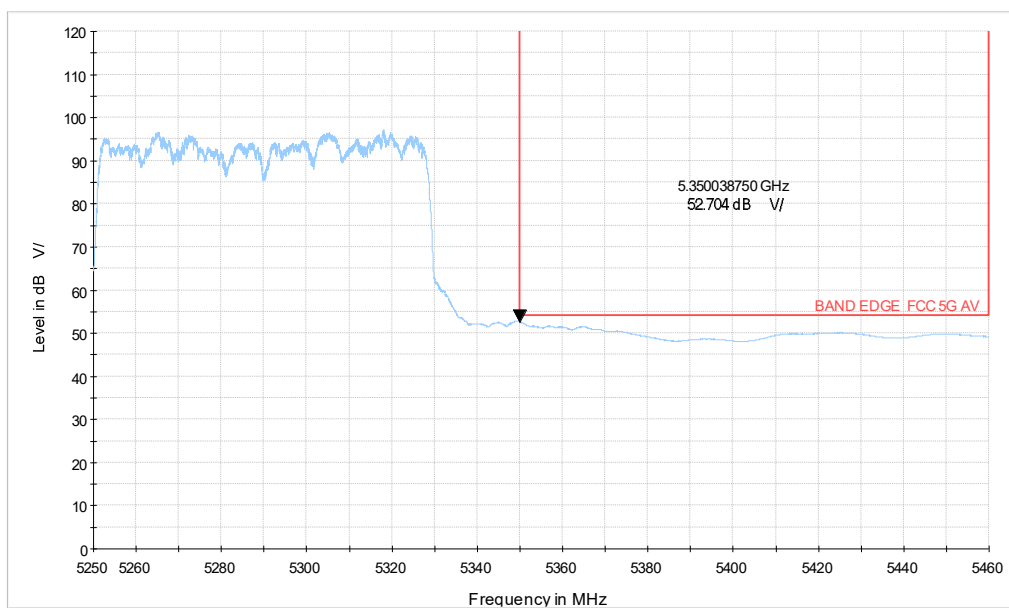
5G WIFI_ac80 CH138_5-6GHz_MCS0



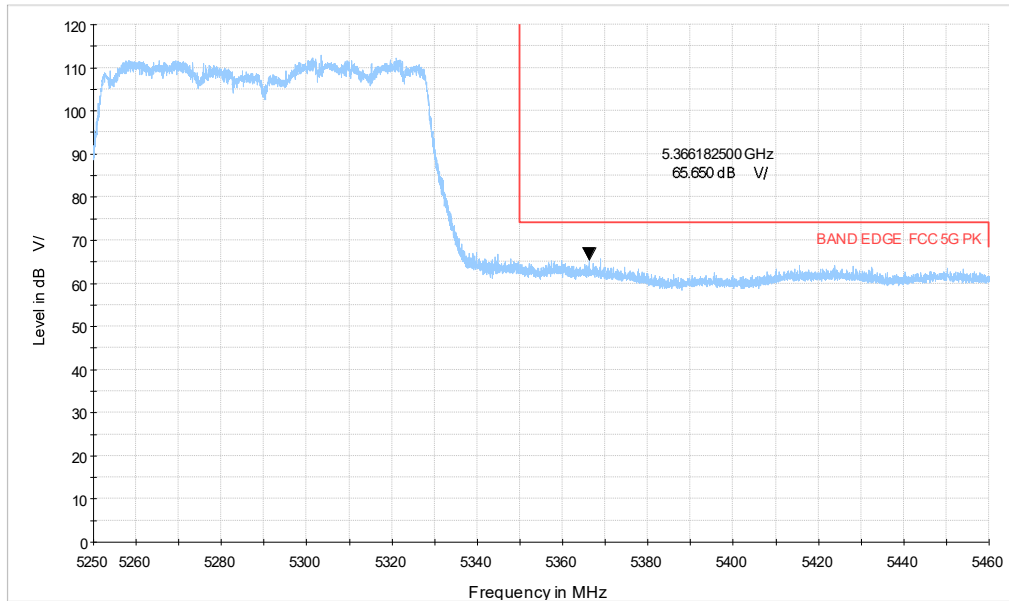
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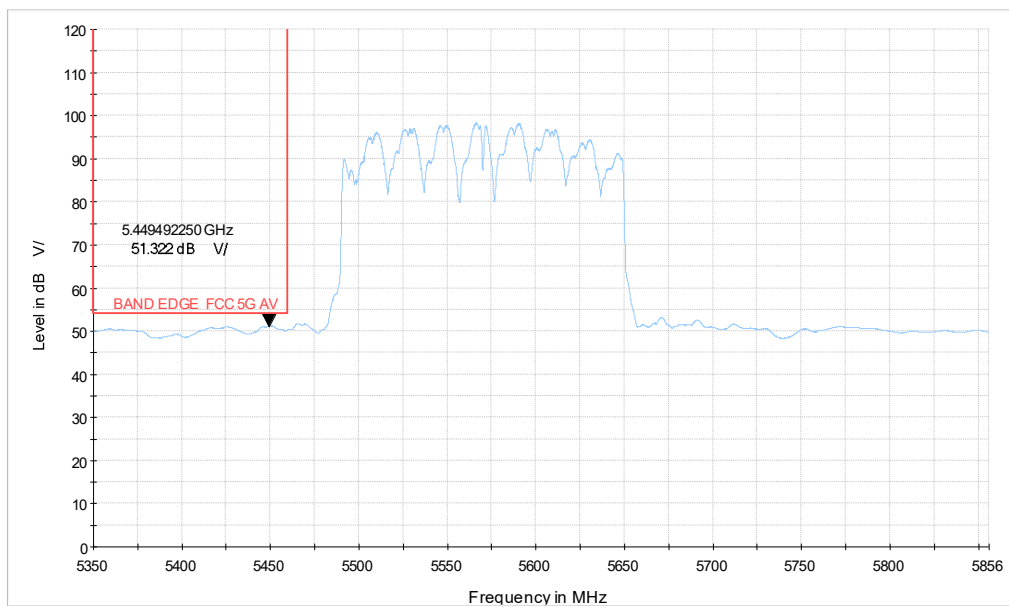
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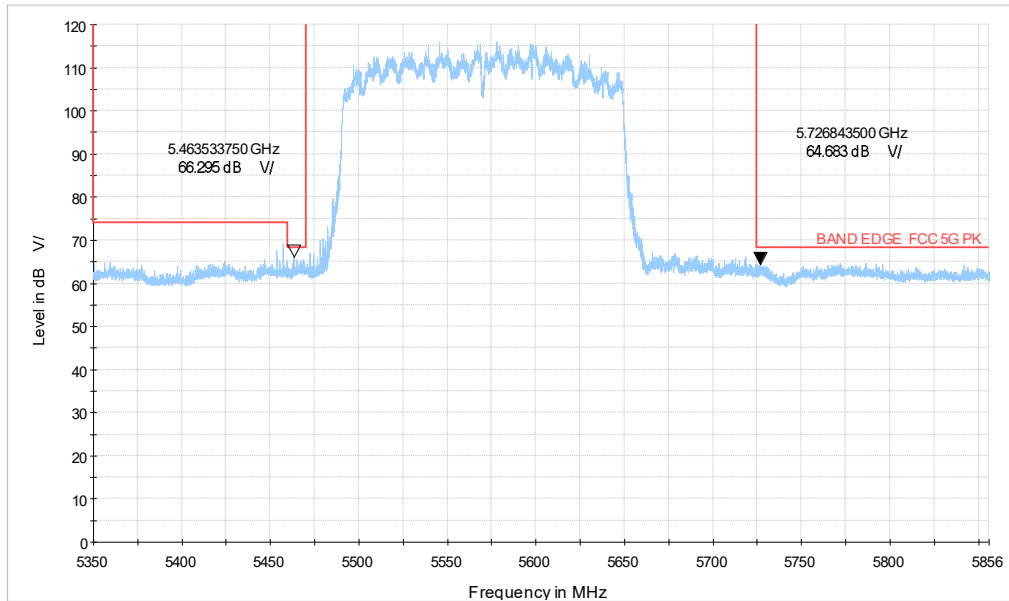
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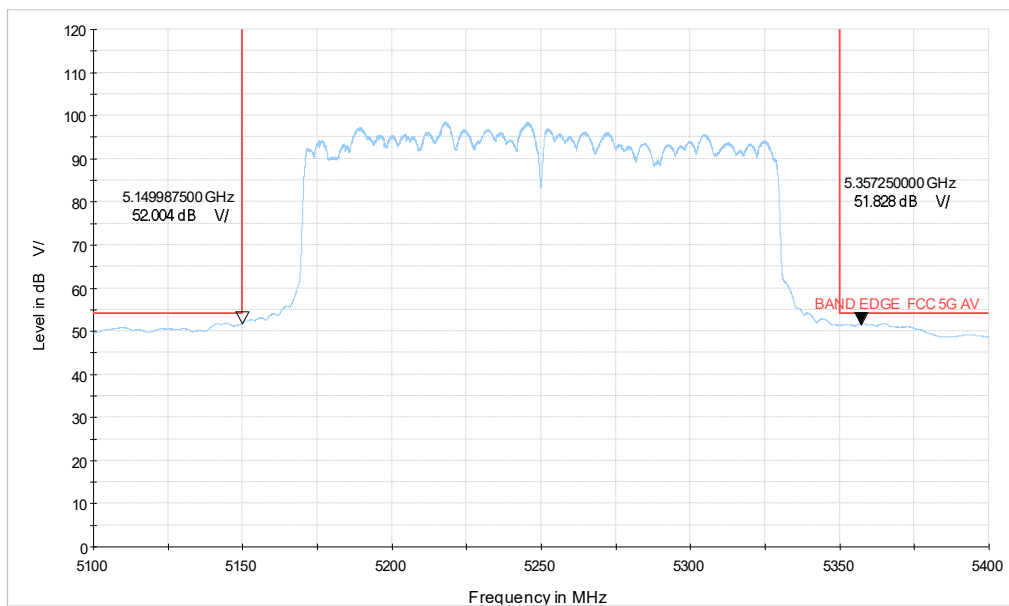
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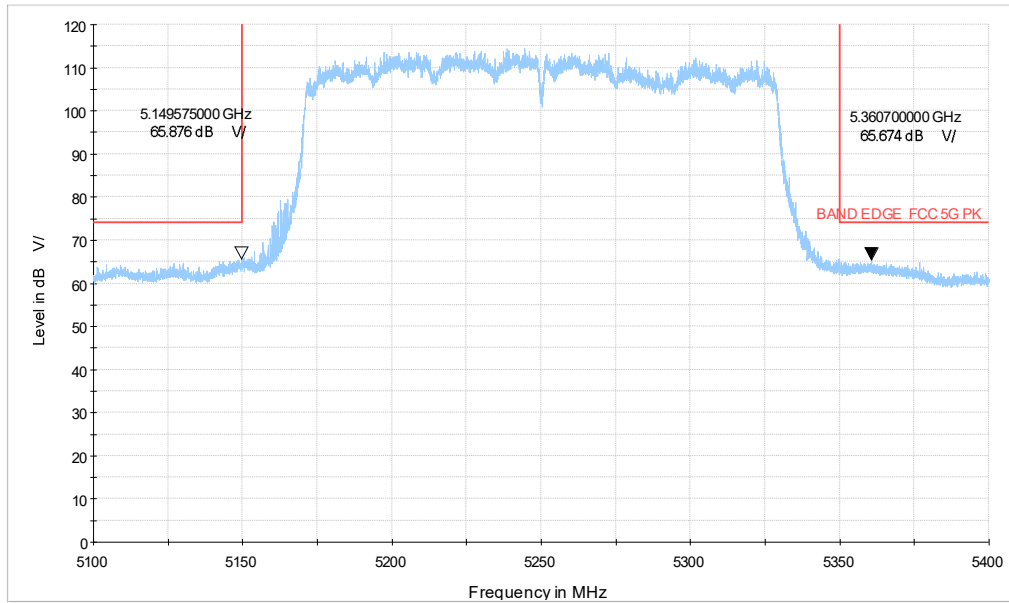
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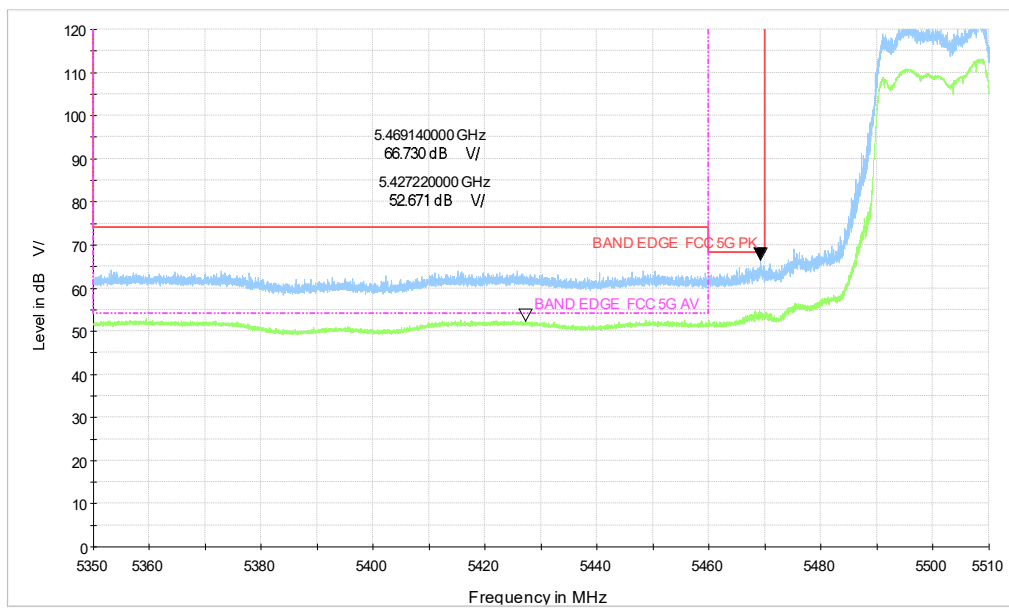
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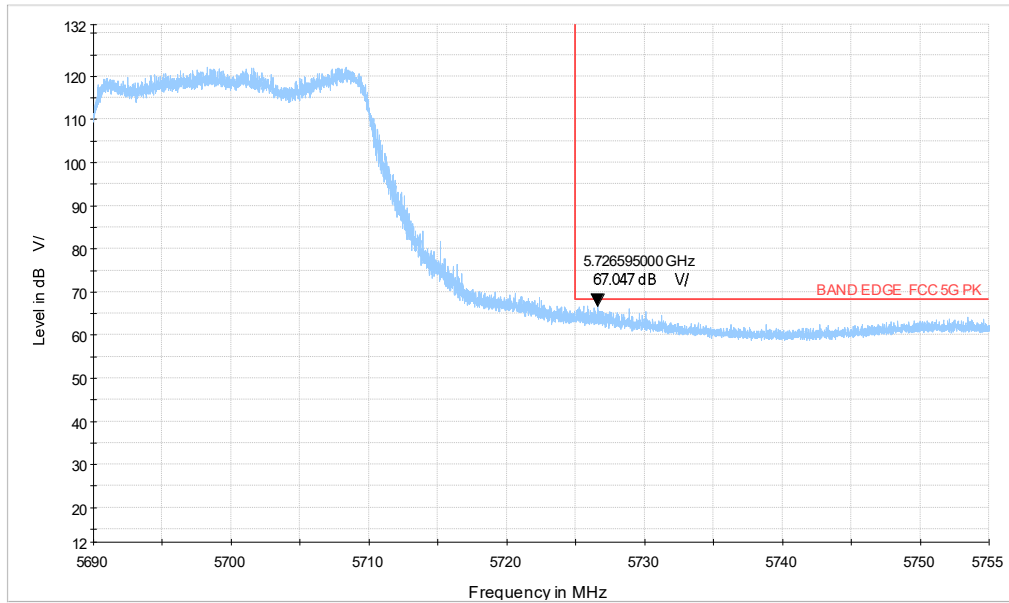
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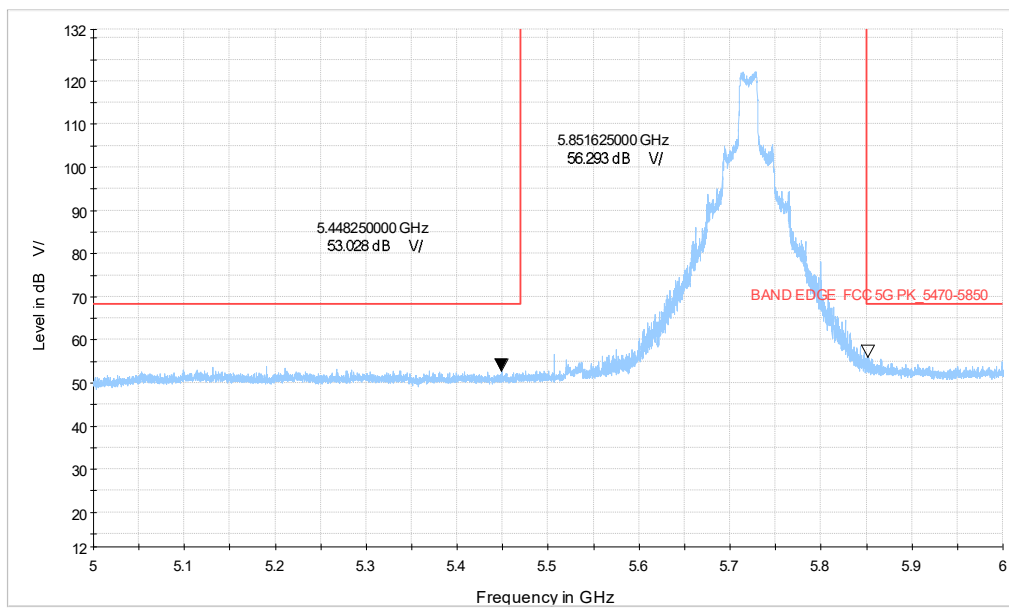
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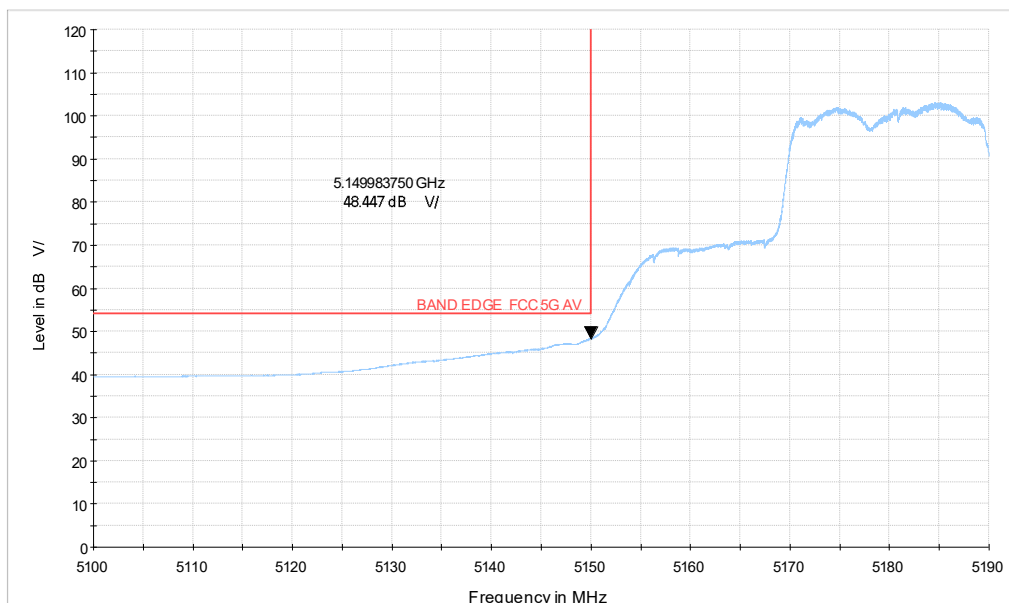
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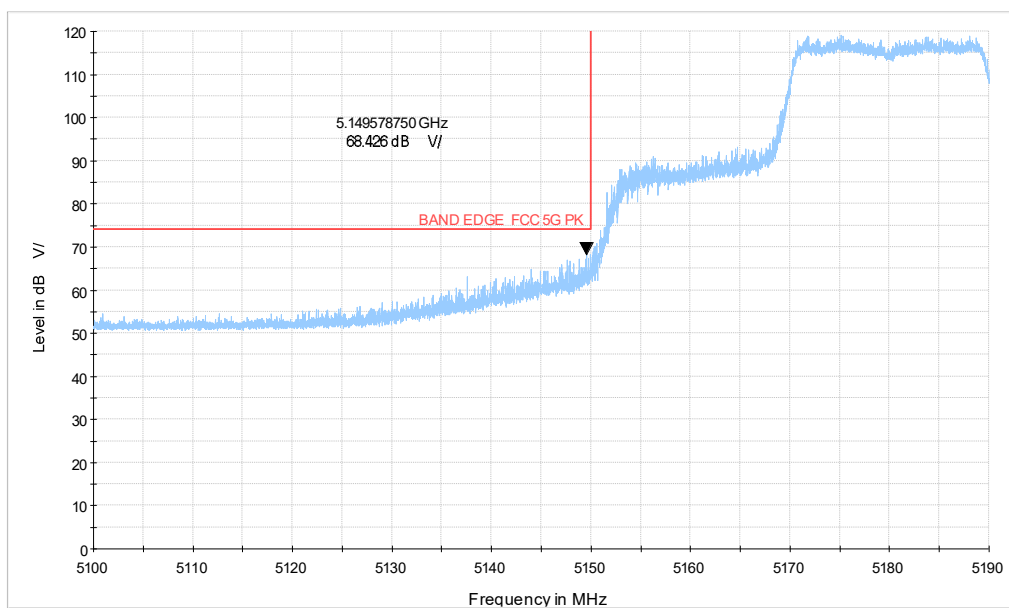
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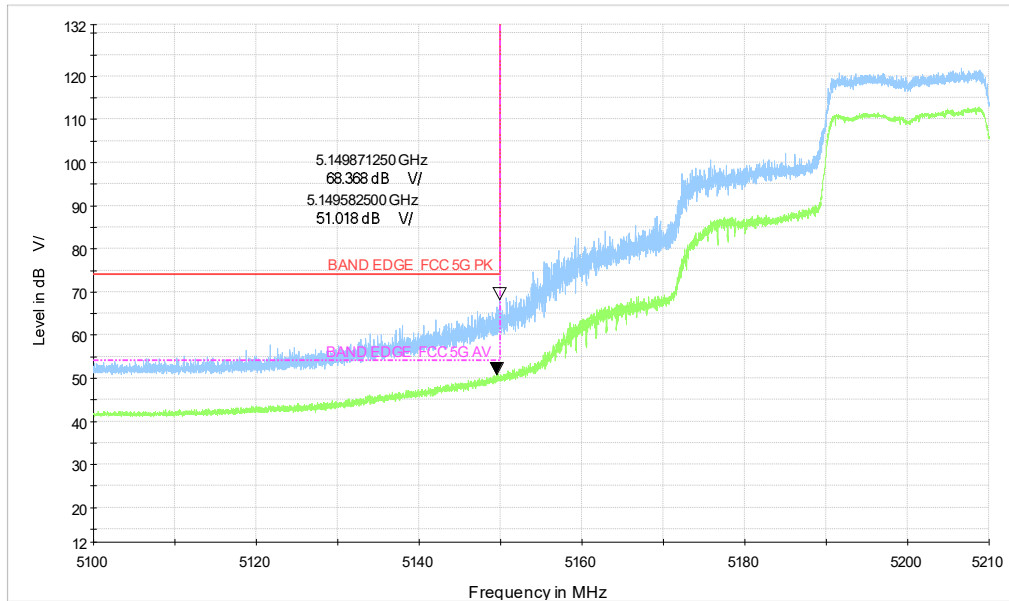
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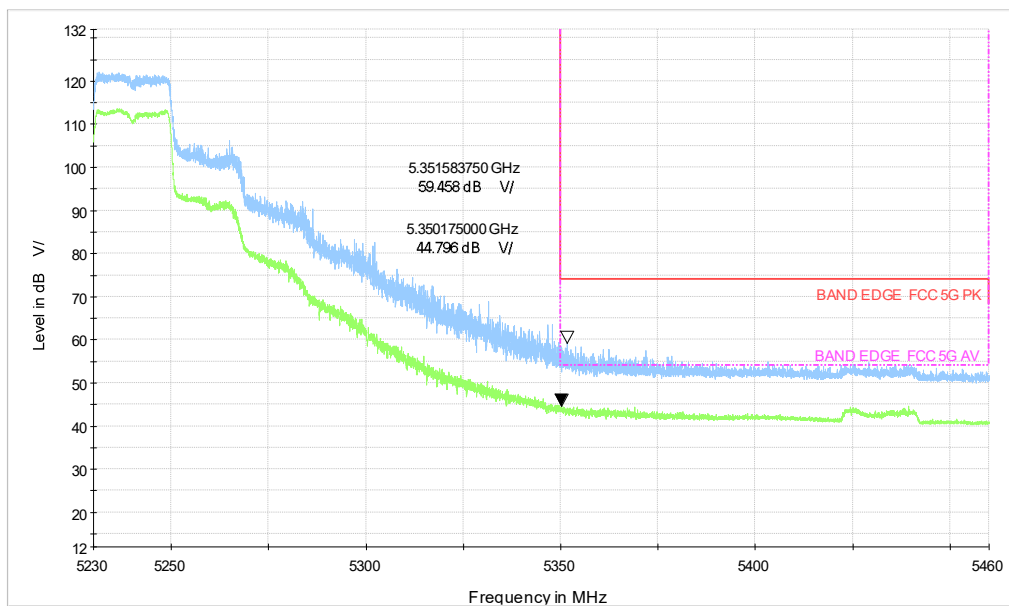
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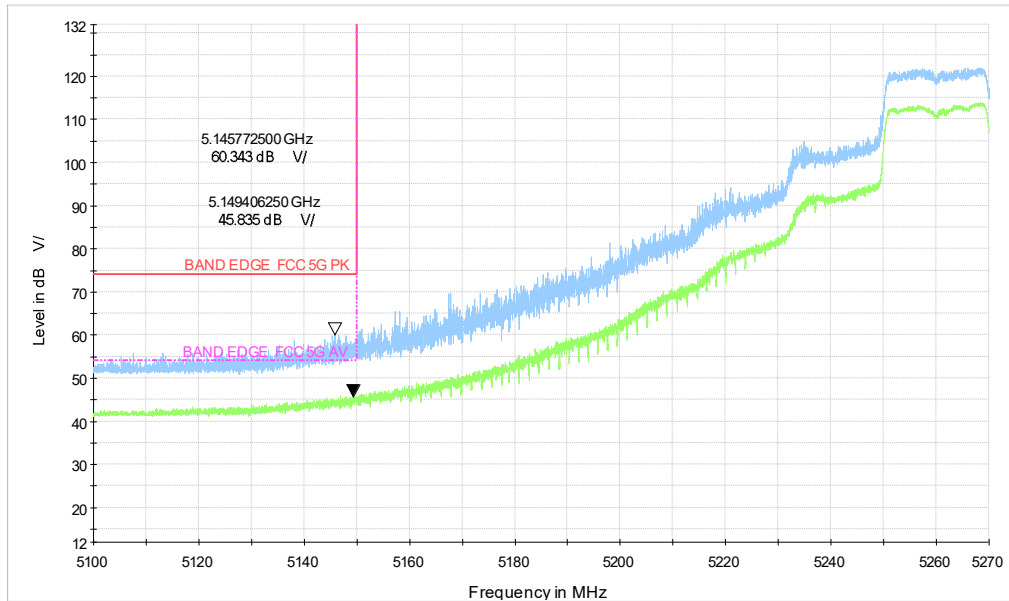
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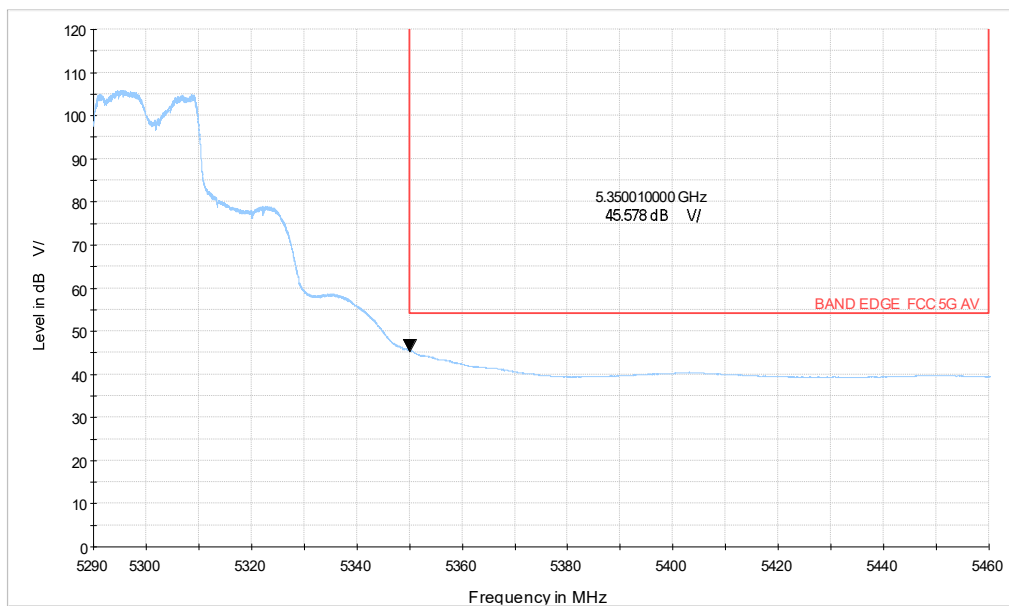
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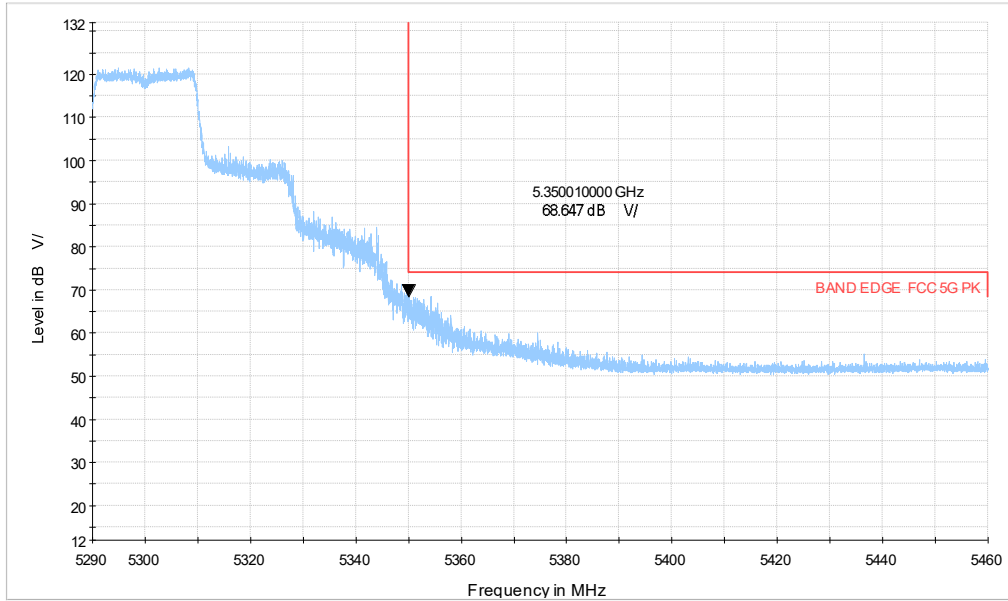
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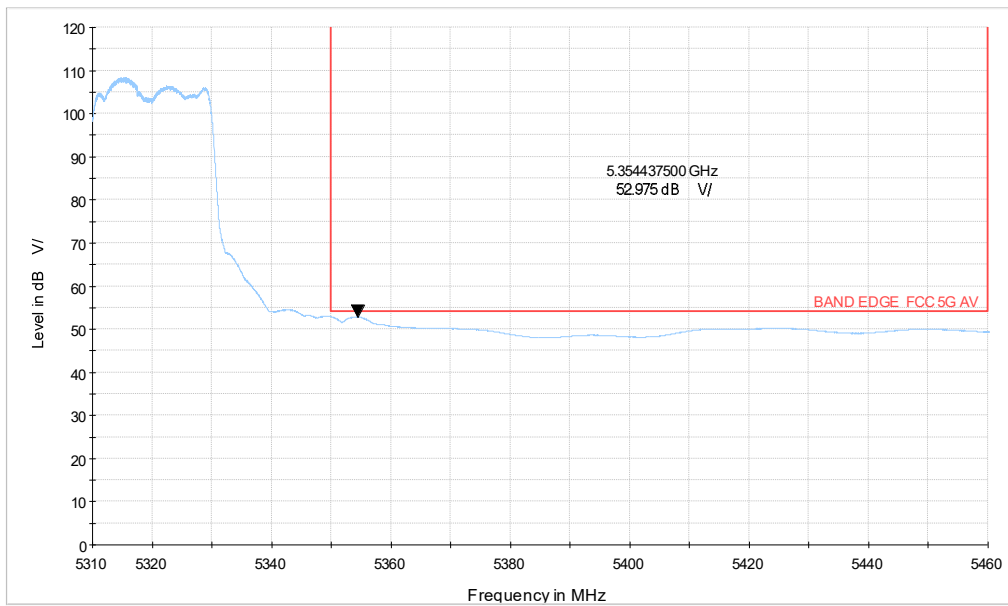
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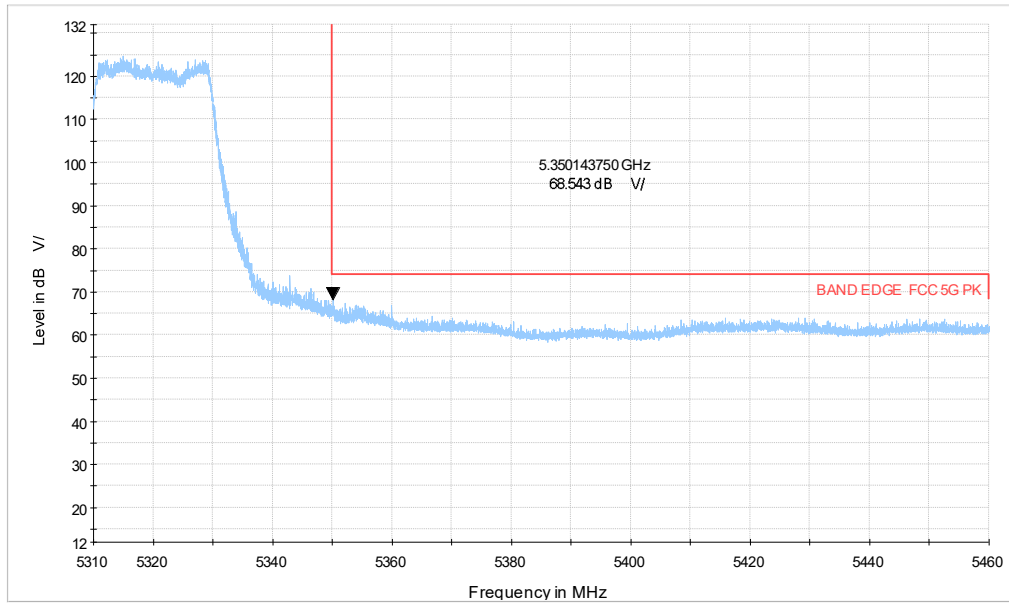
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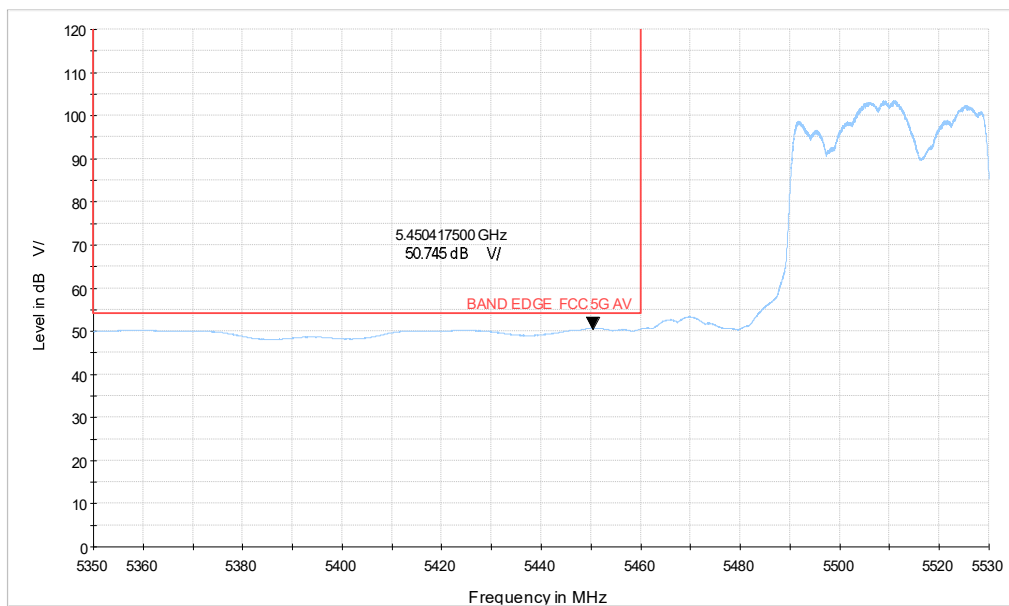
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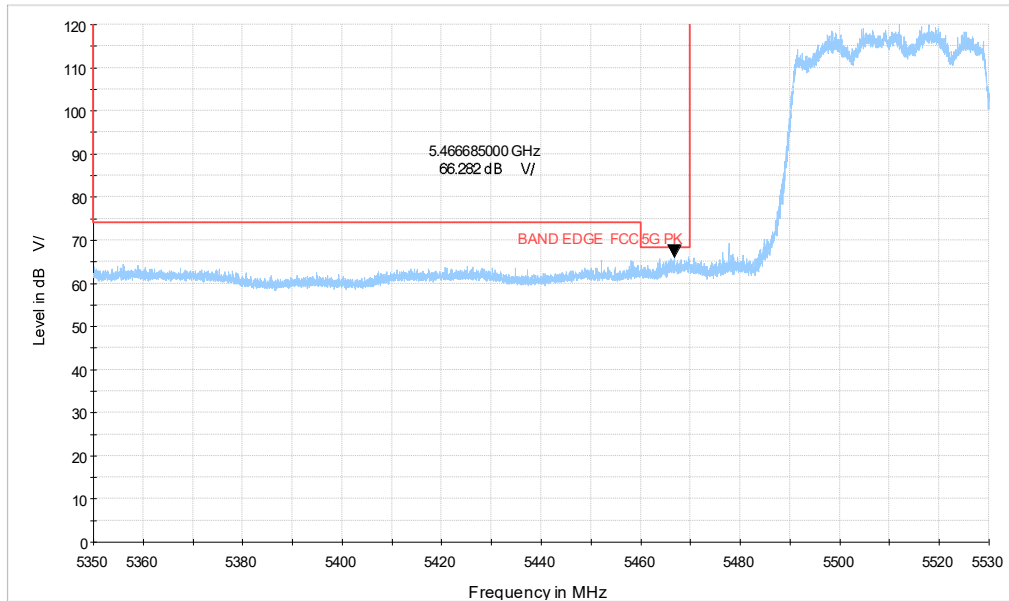
5G WIFI_ax20 CH64_5.31-5.46GHz_AV



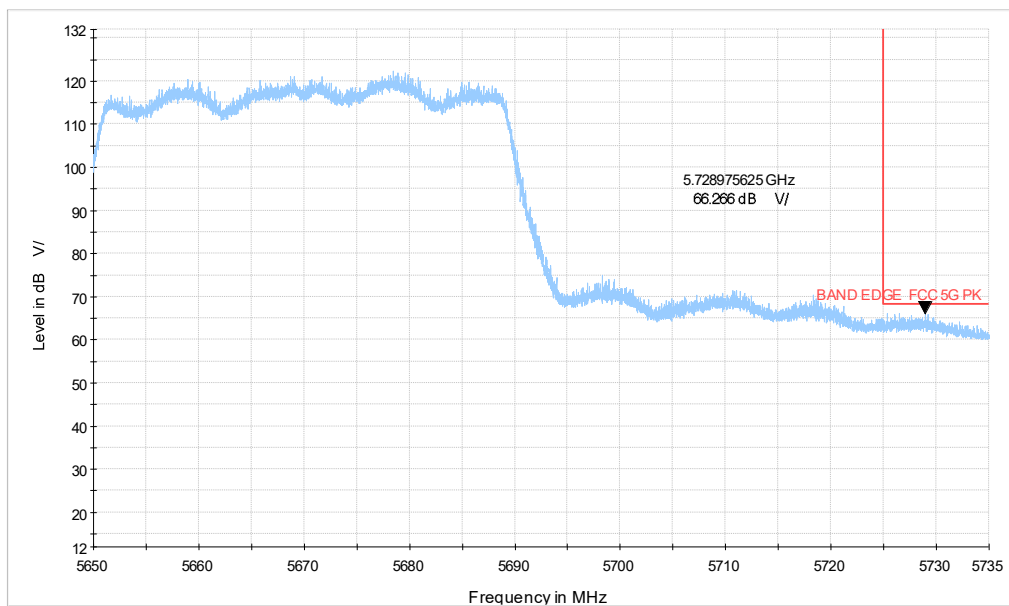
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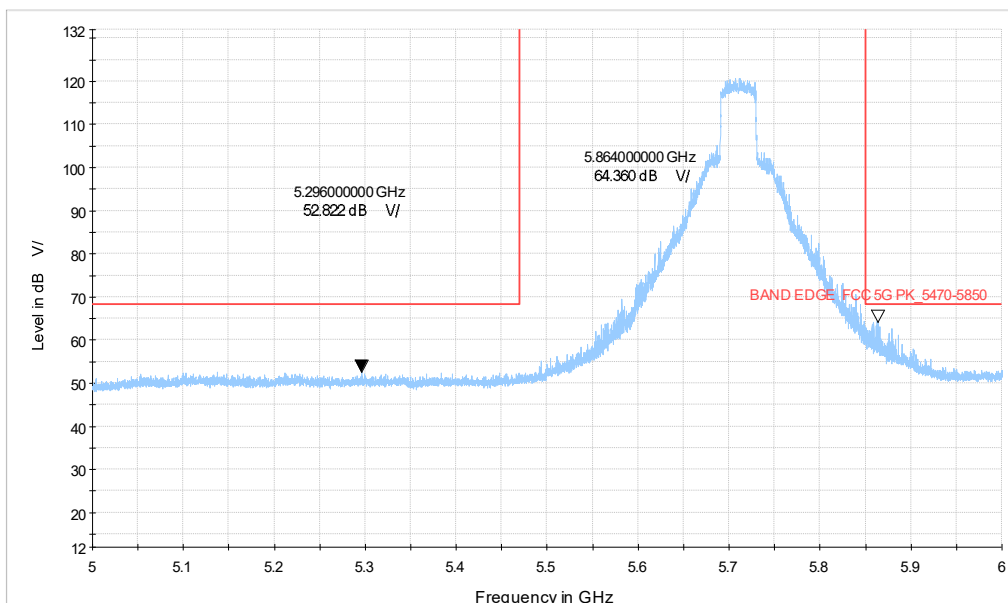
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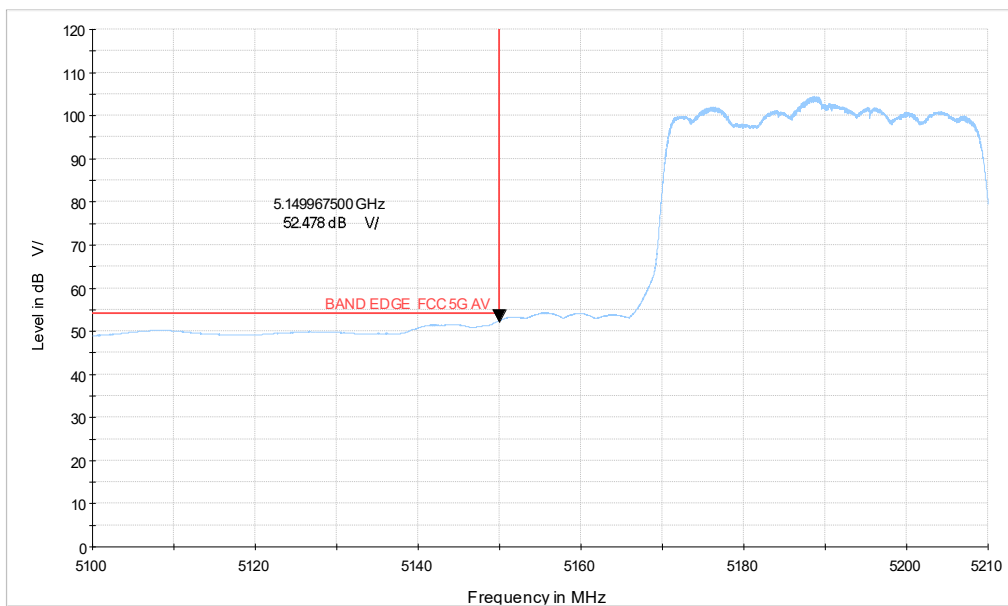
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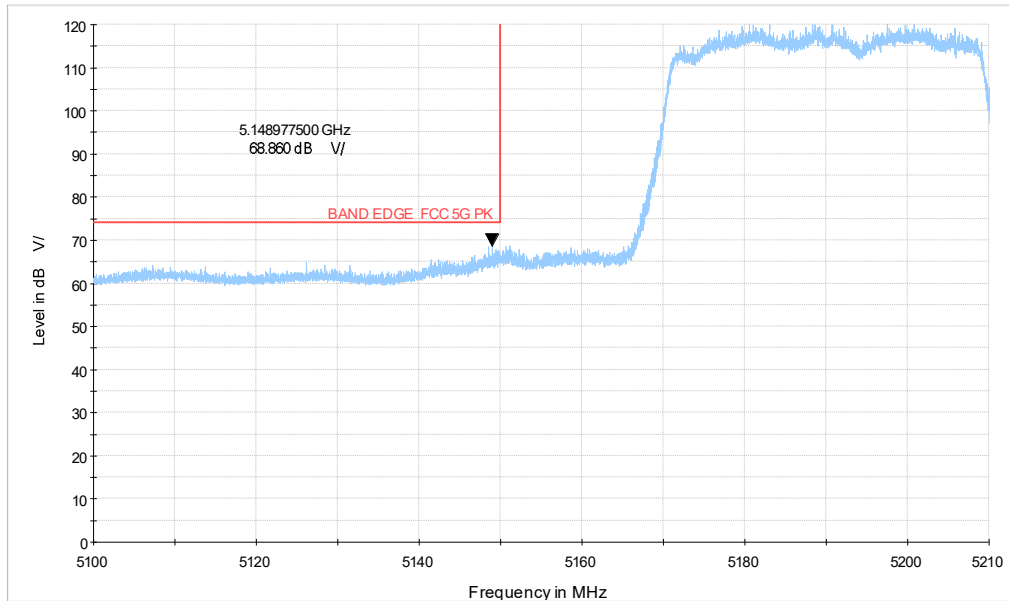
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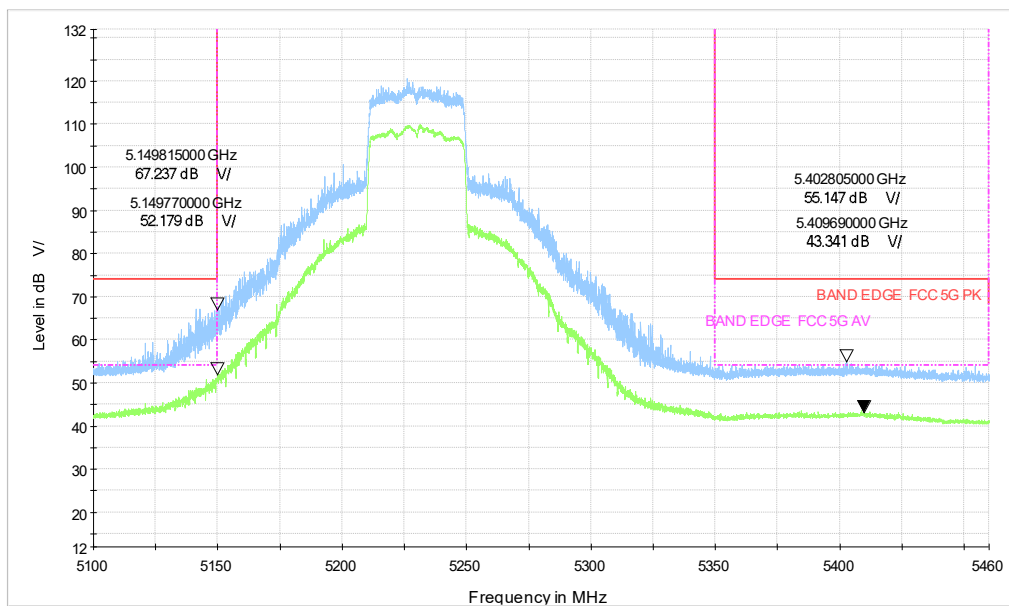
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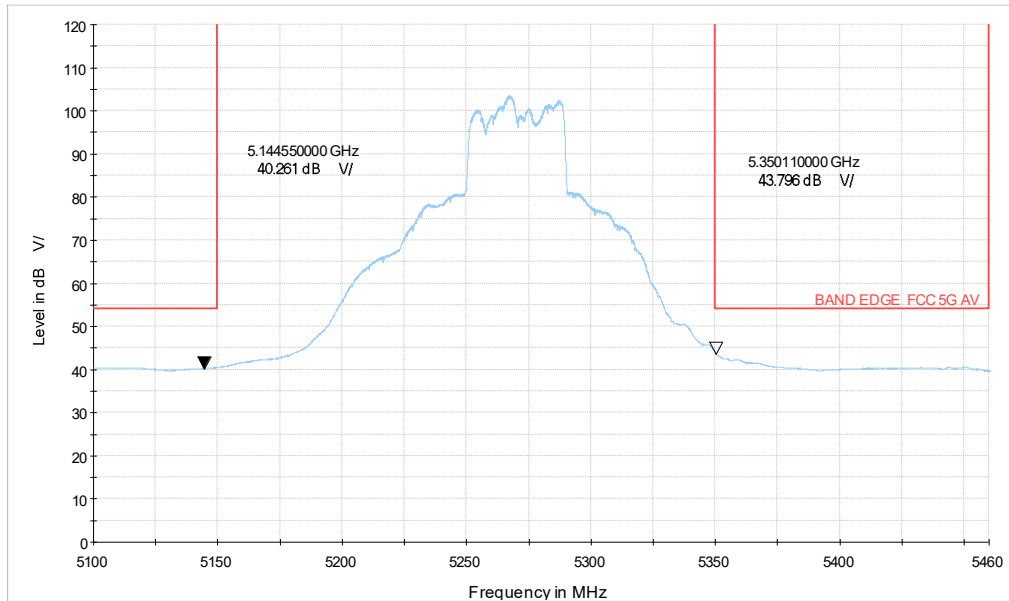
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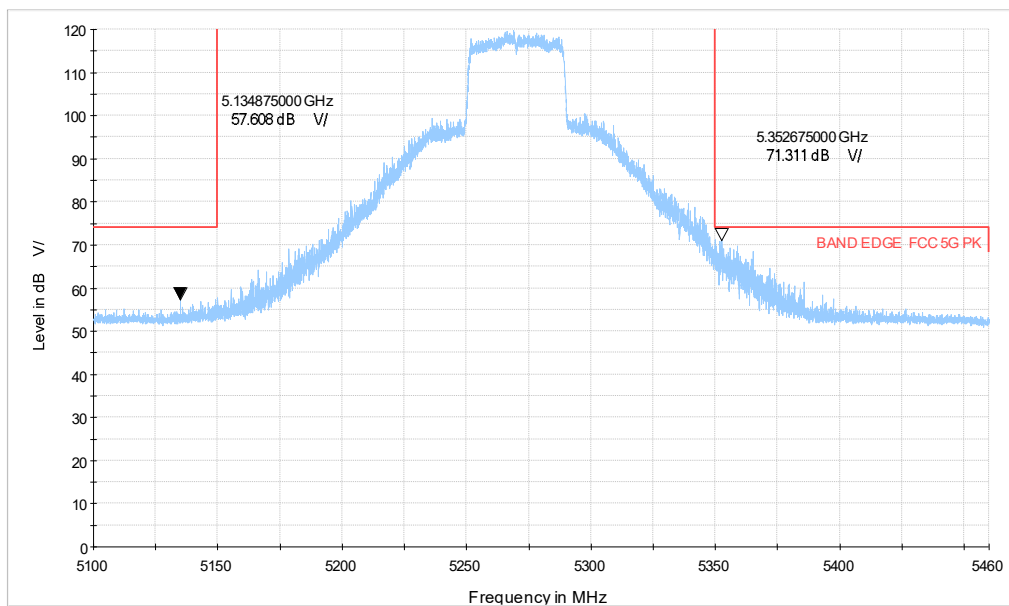
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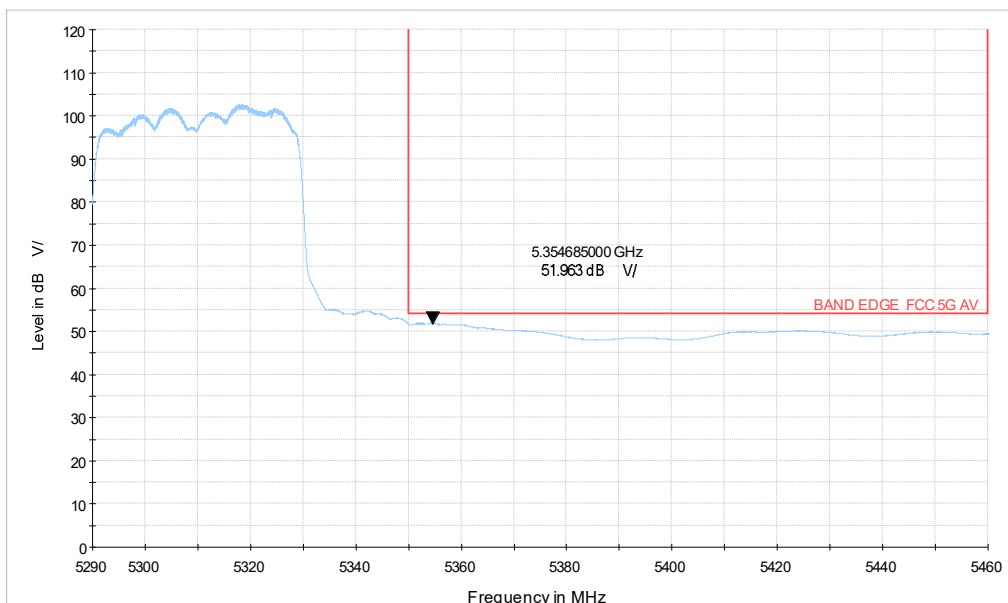
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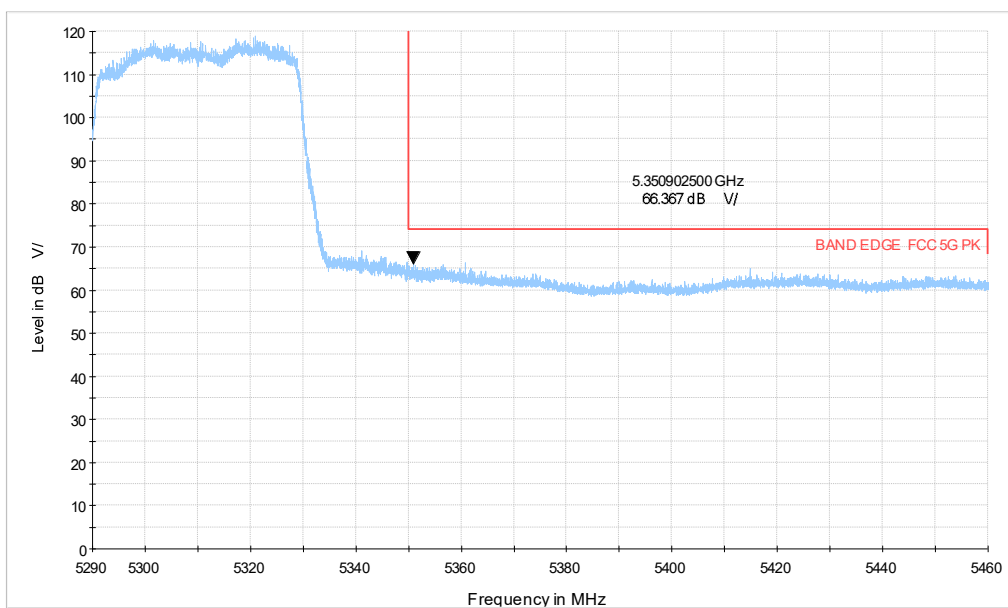
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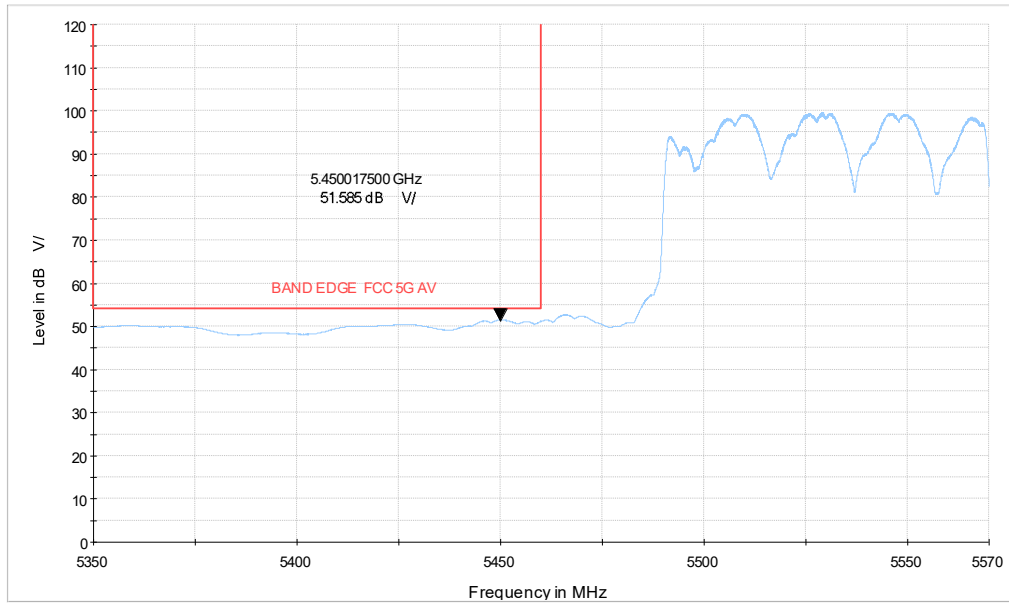
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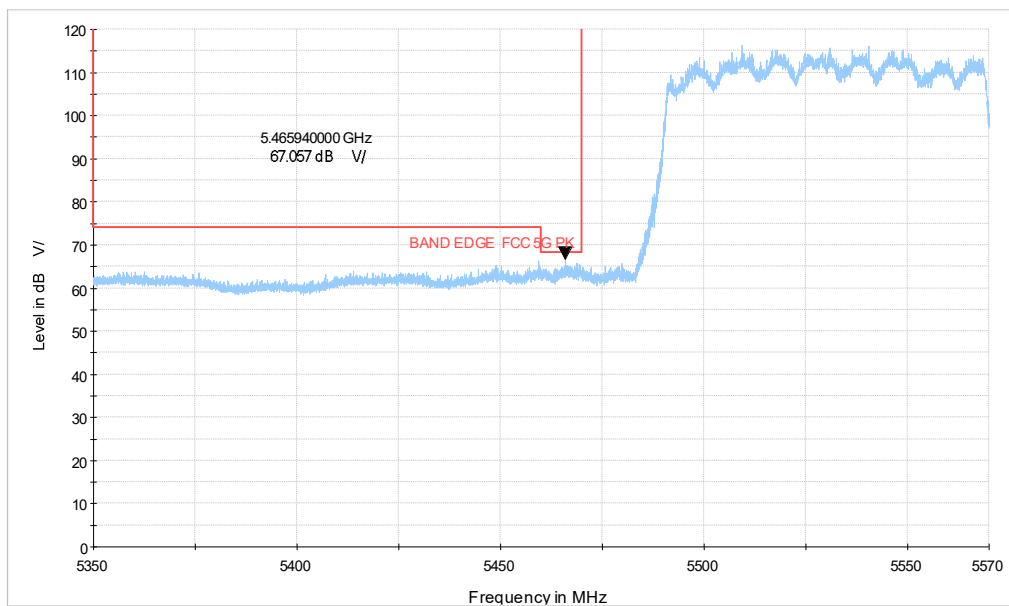
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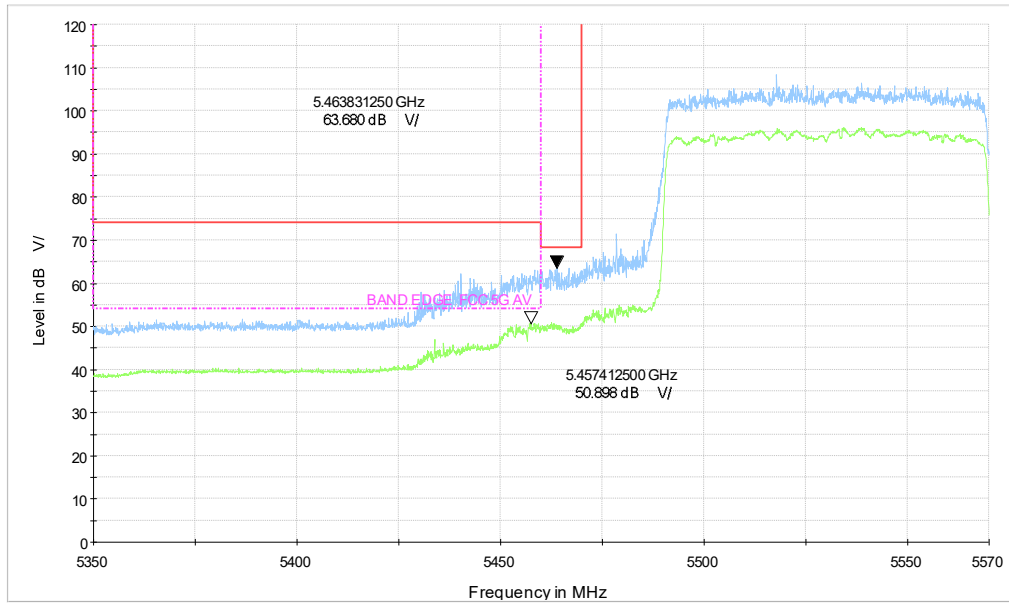
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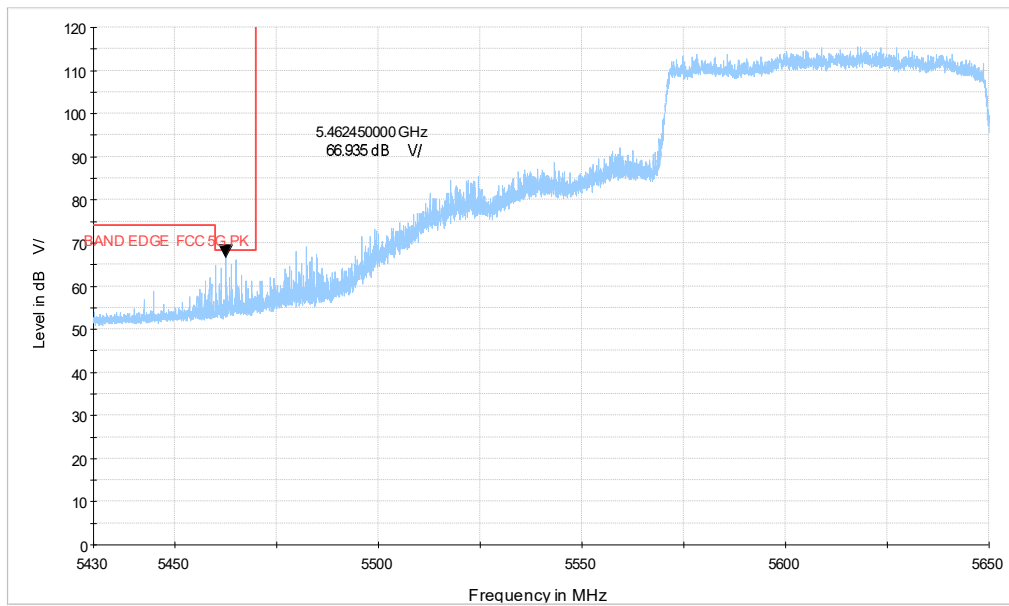
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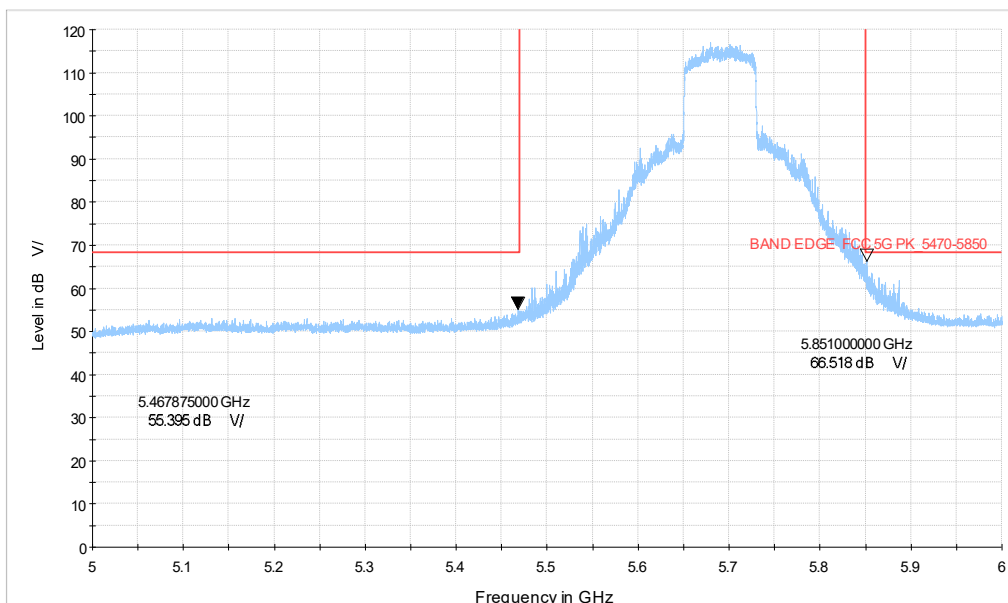
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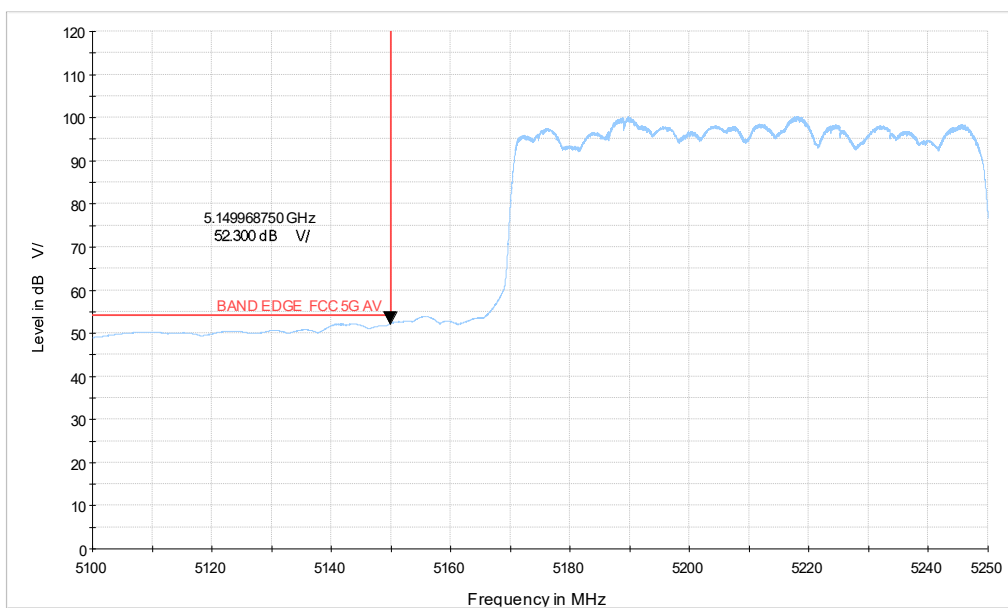
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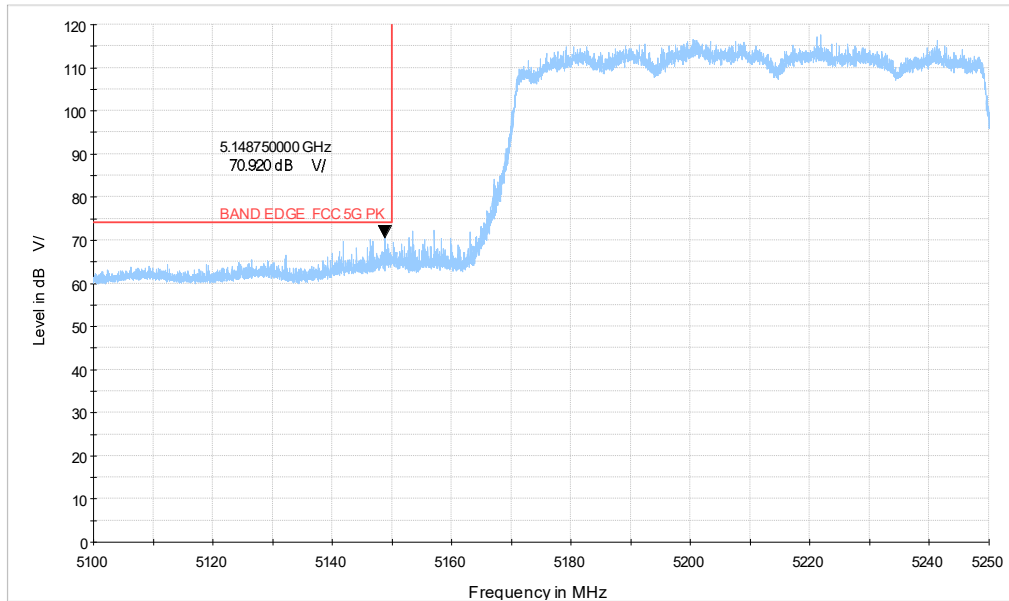
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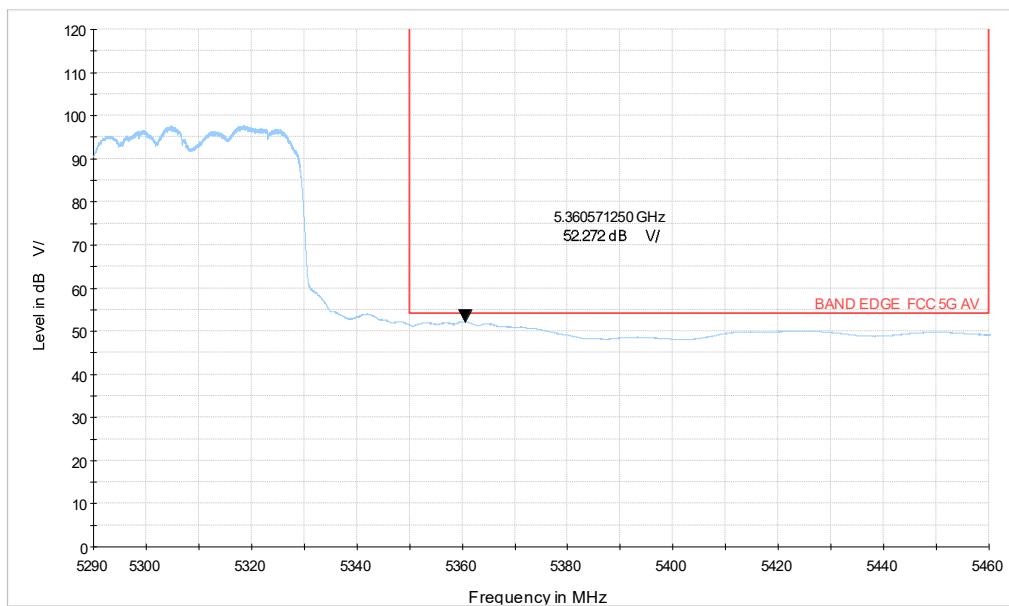
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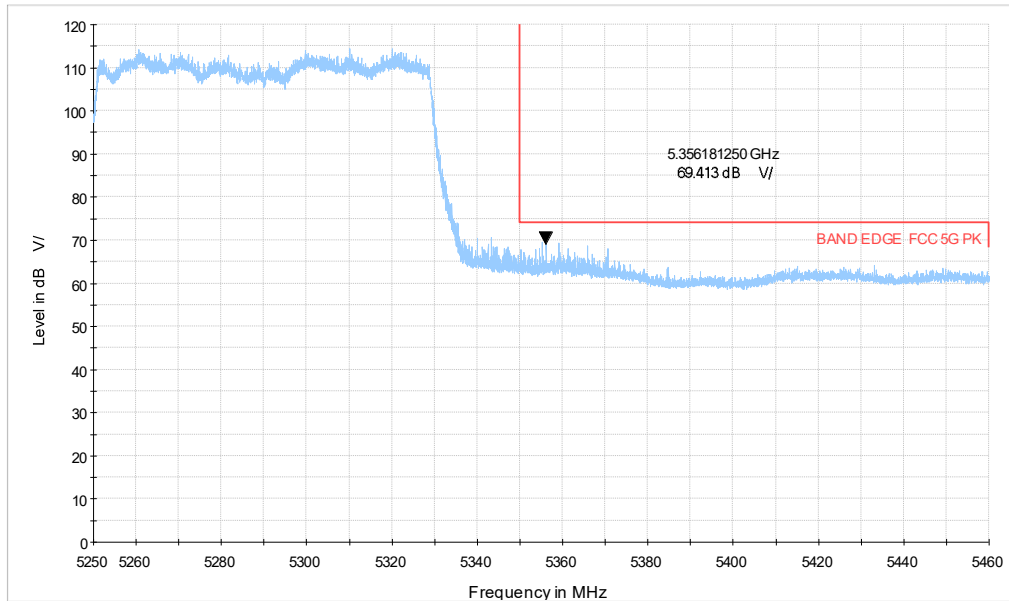
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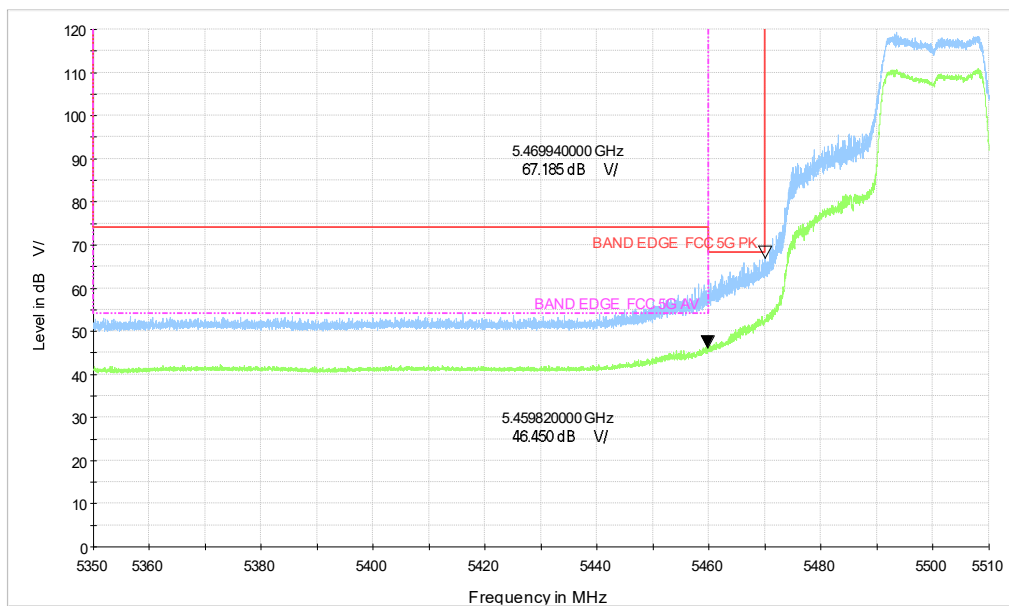
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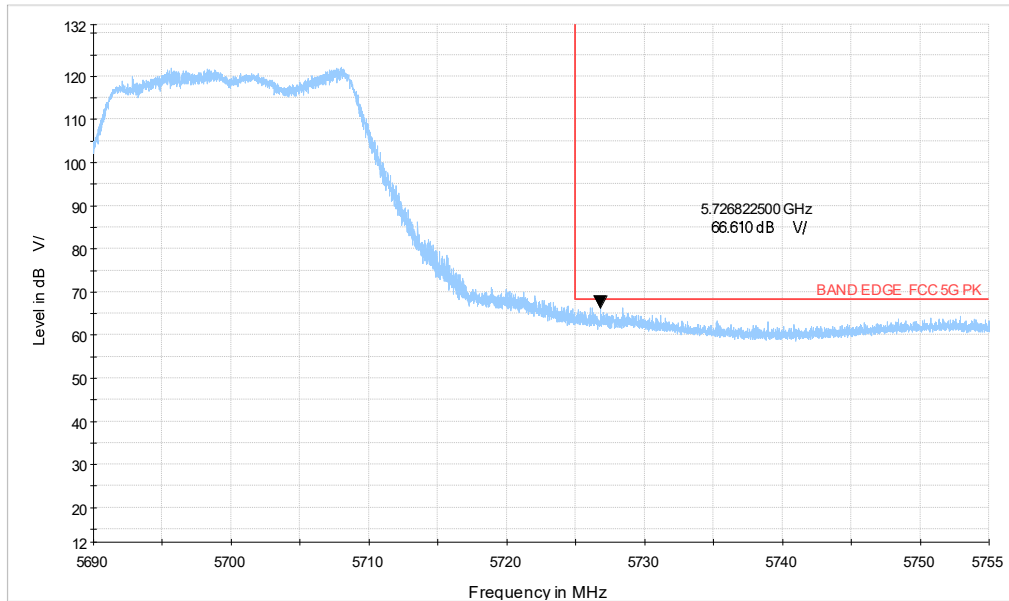
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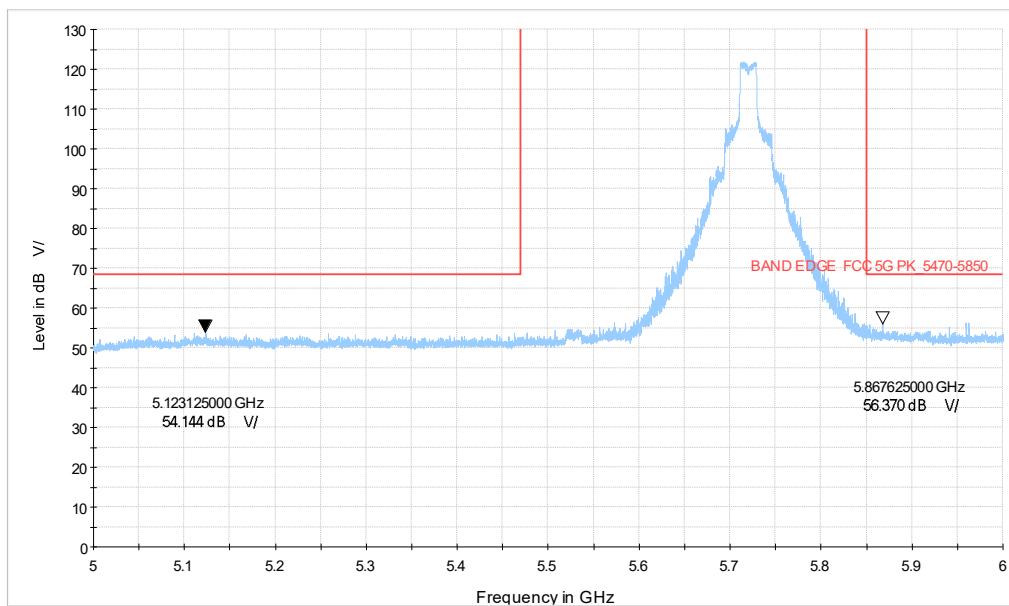
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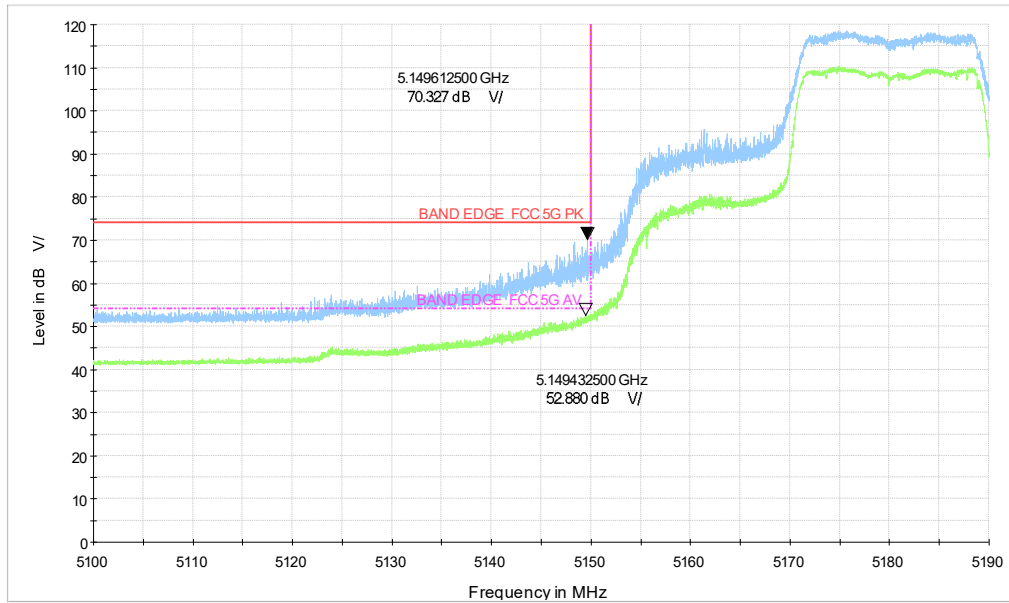
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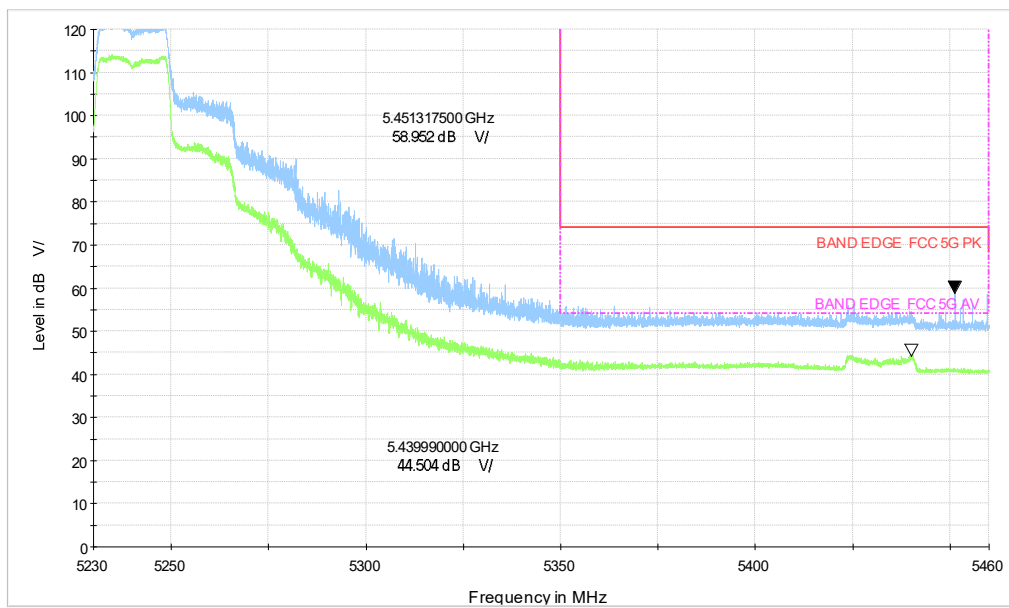
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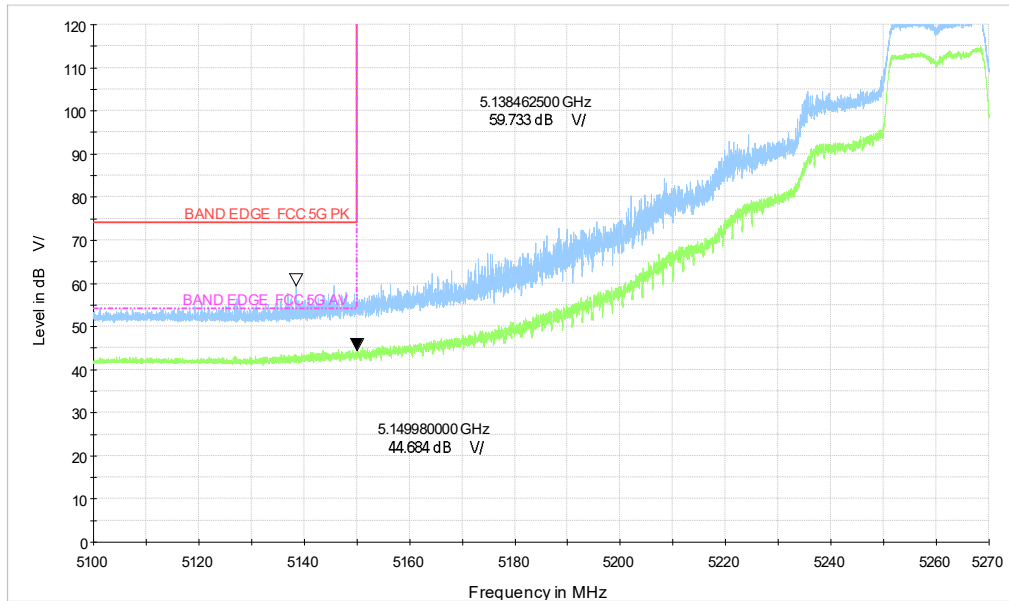
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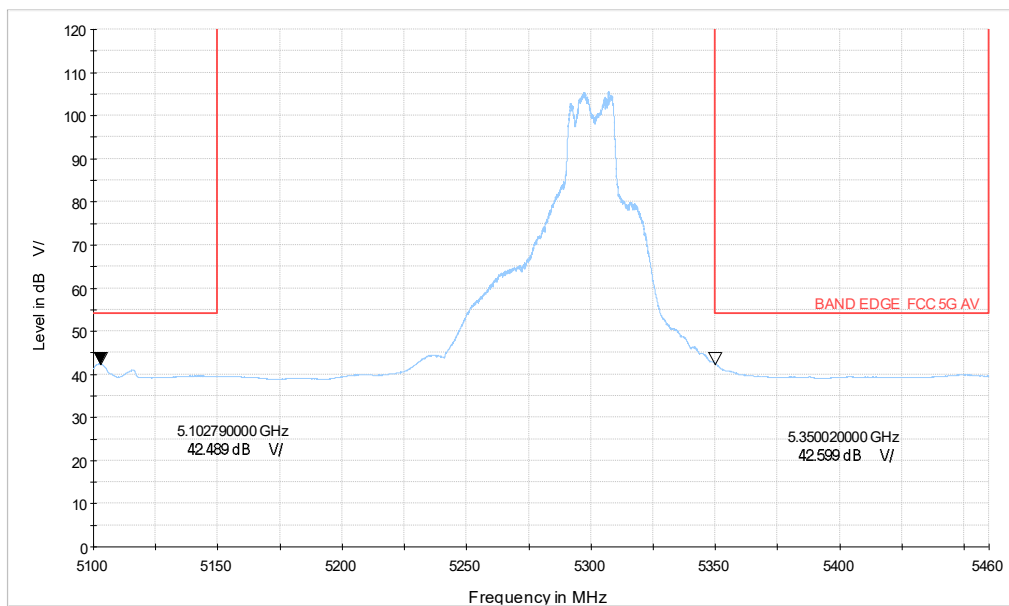
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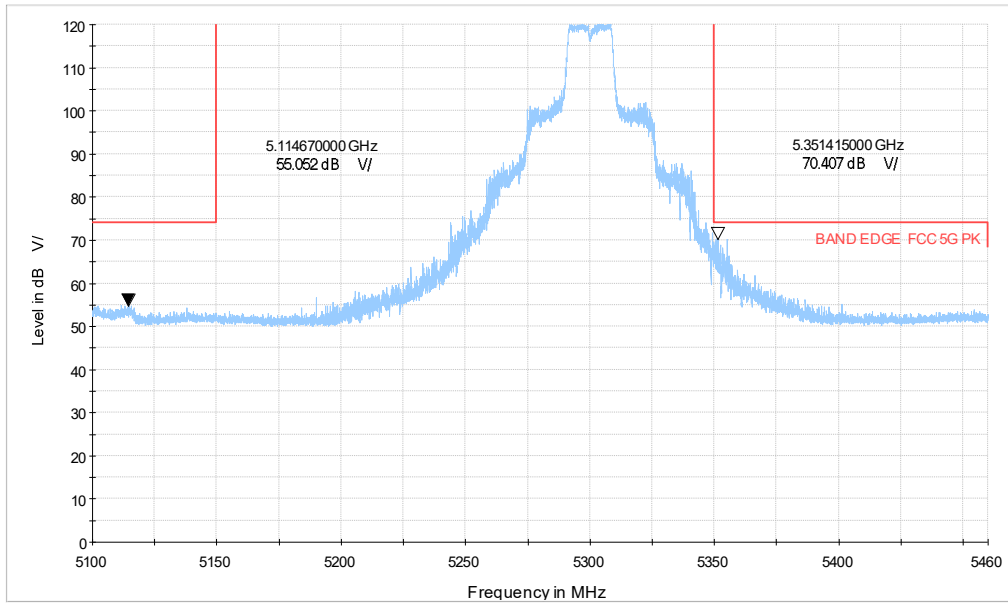
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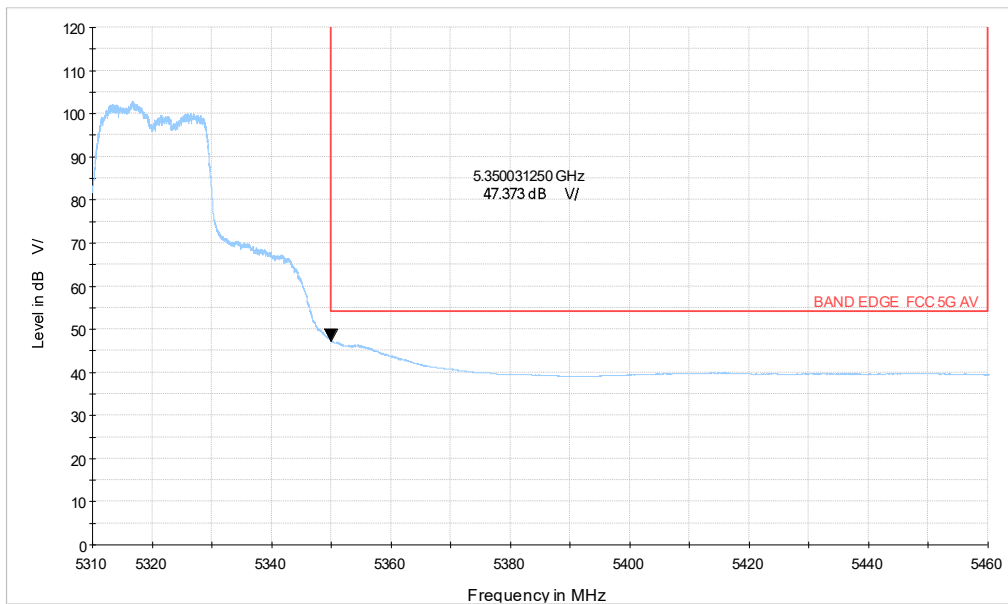
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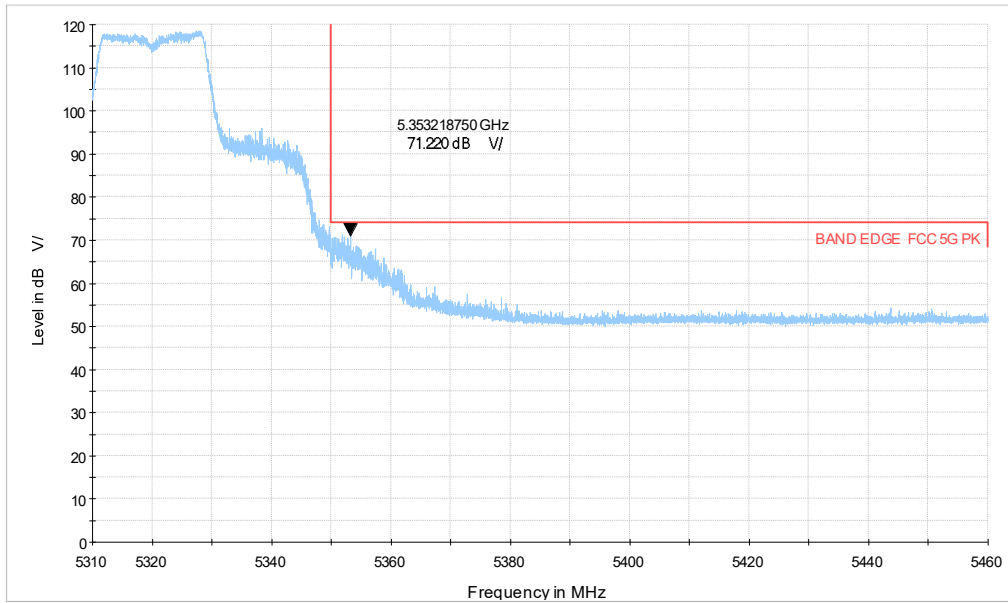
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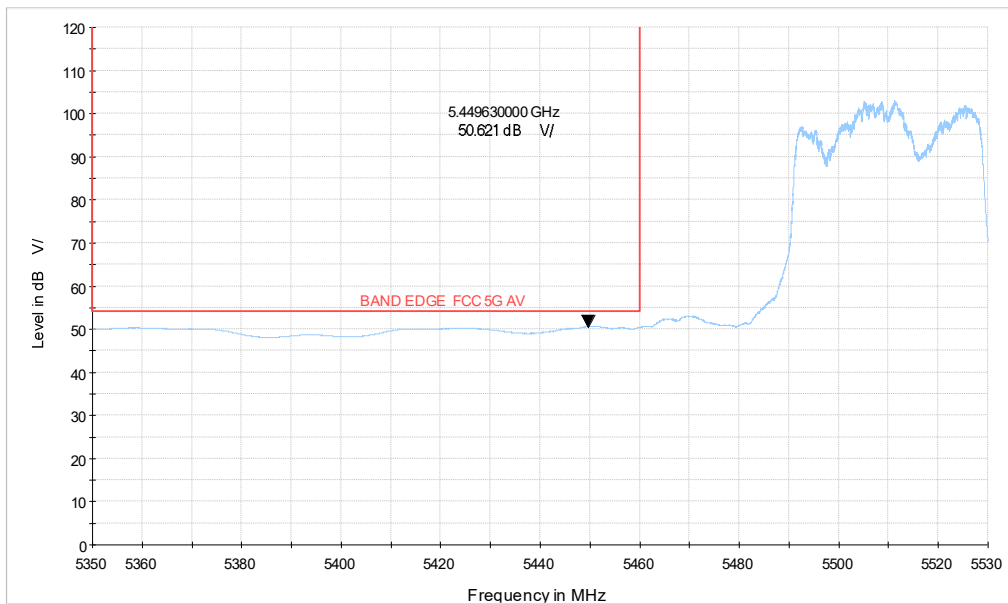
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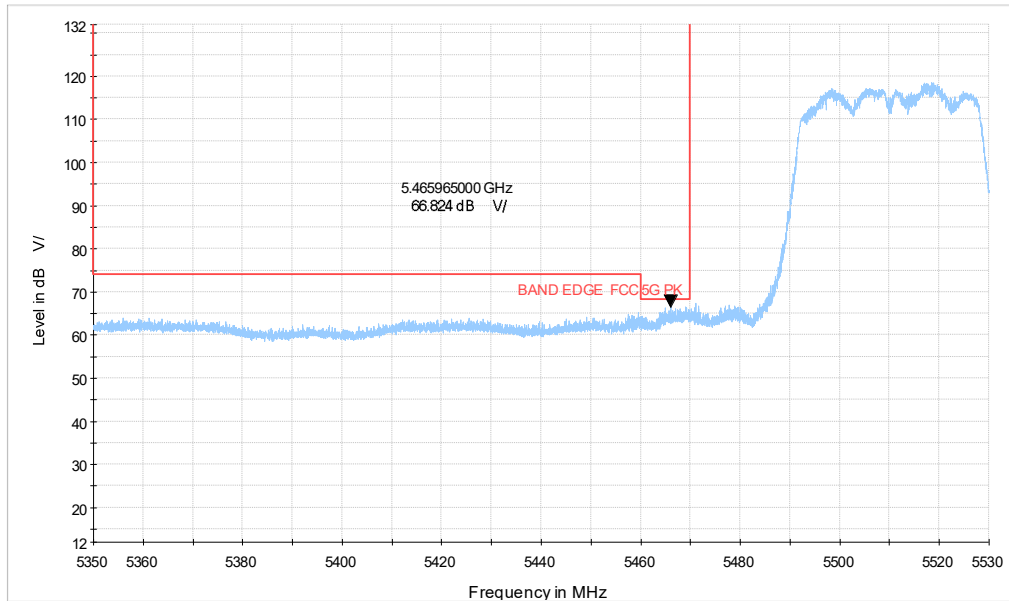
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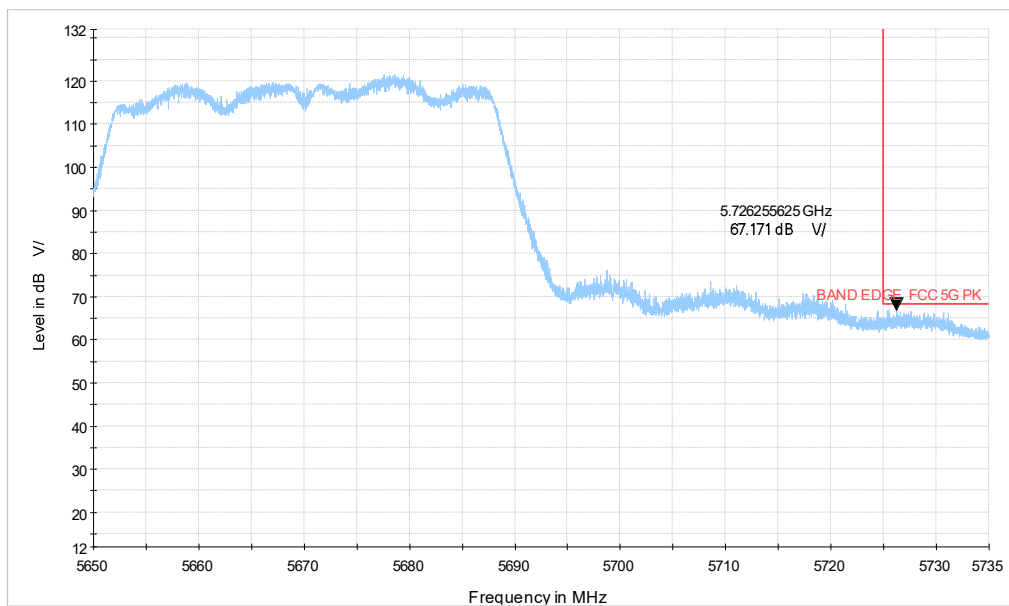
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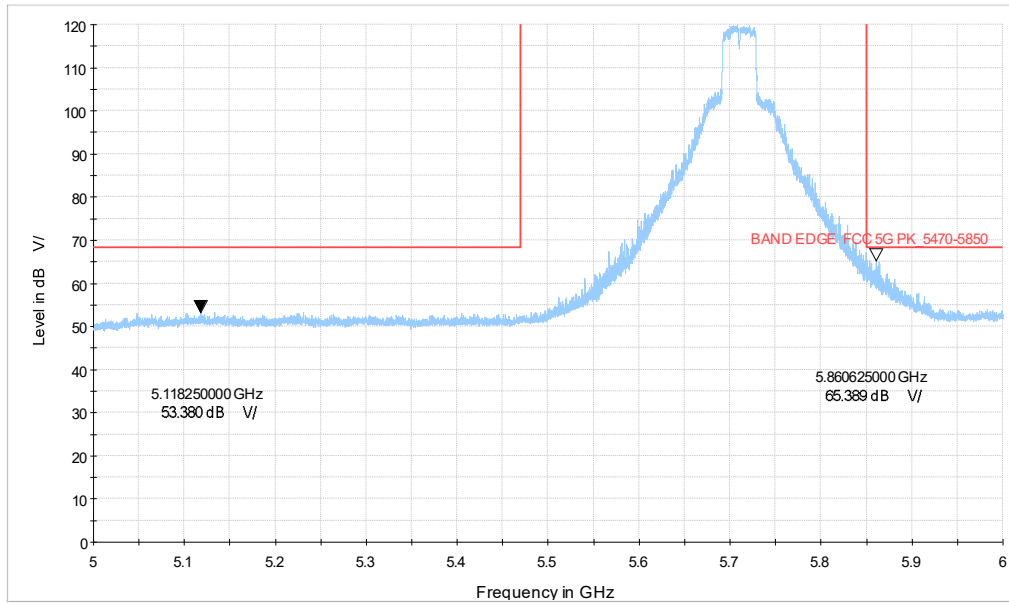
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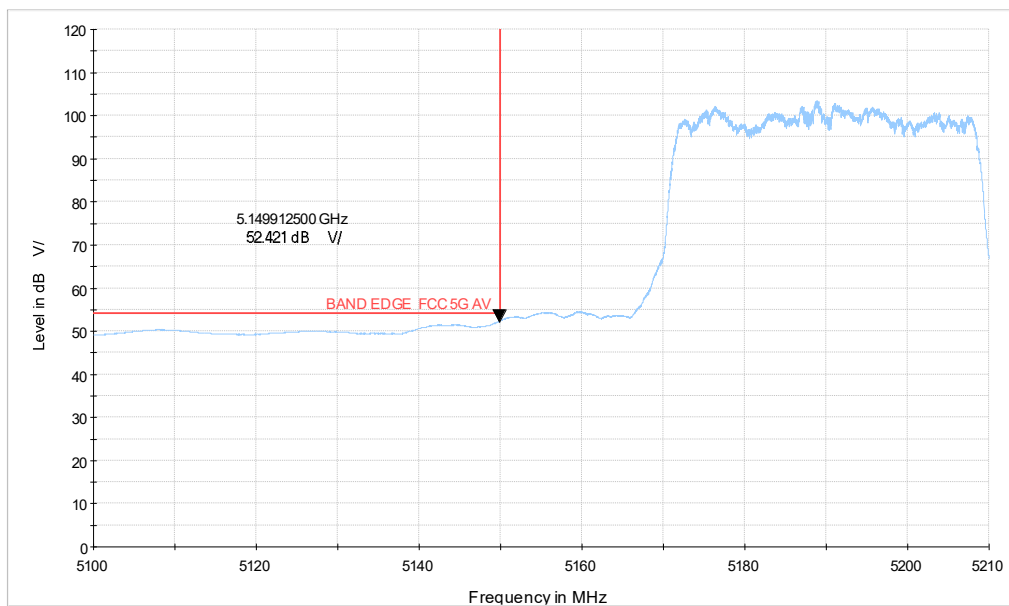
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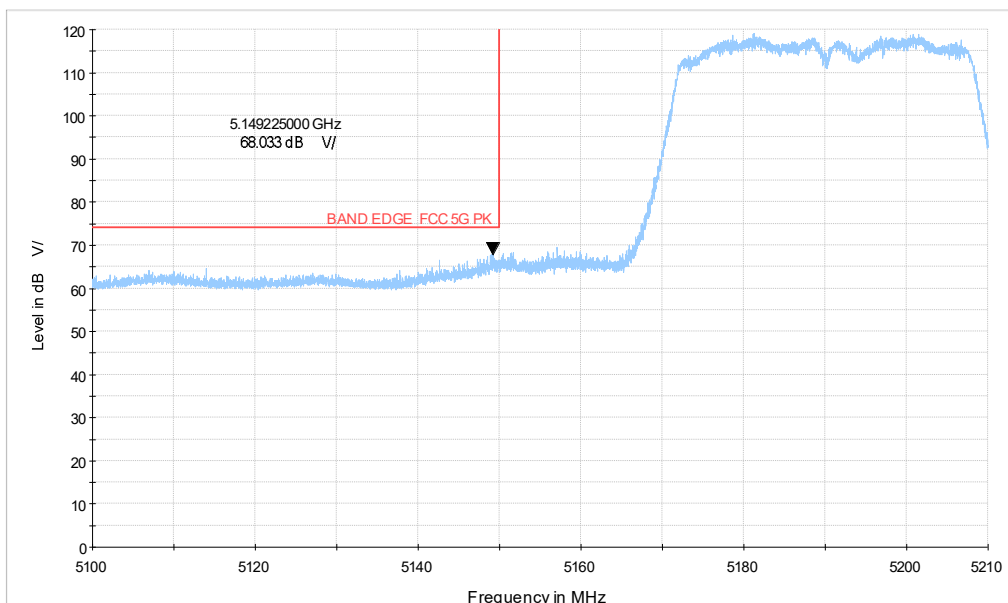
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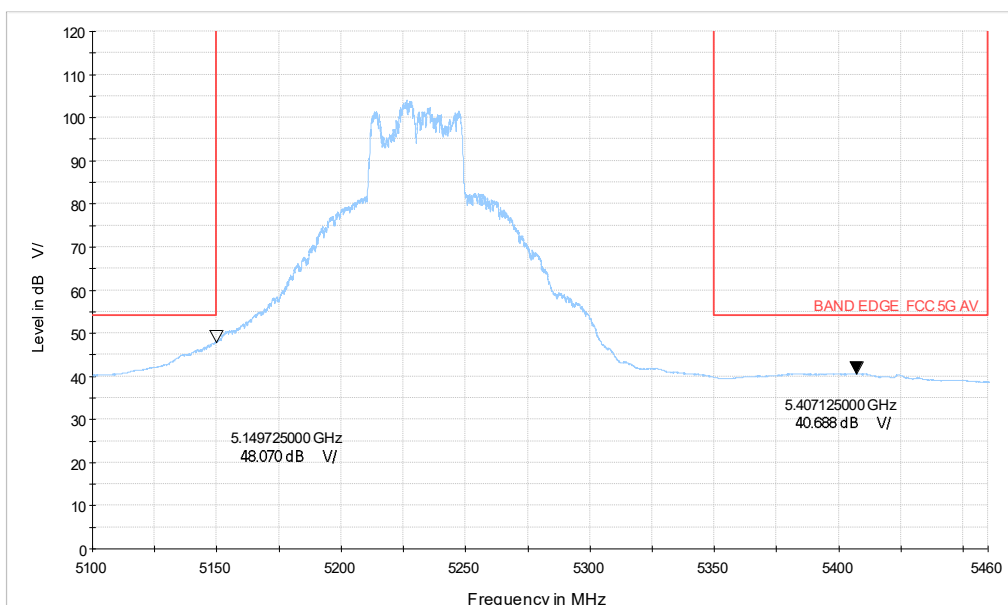
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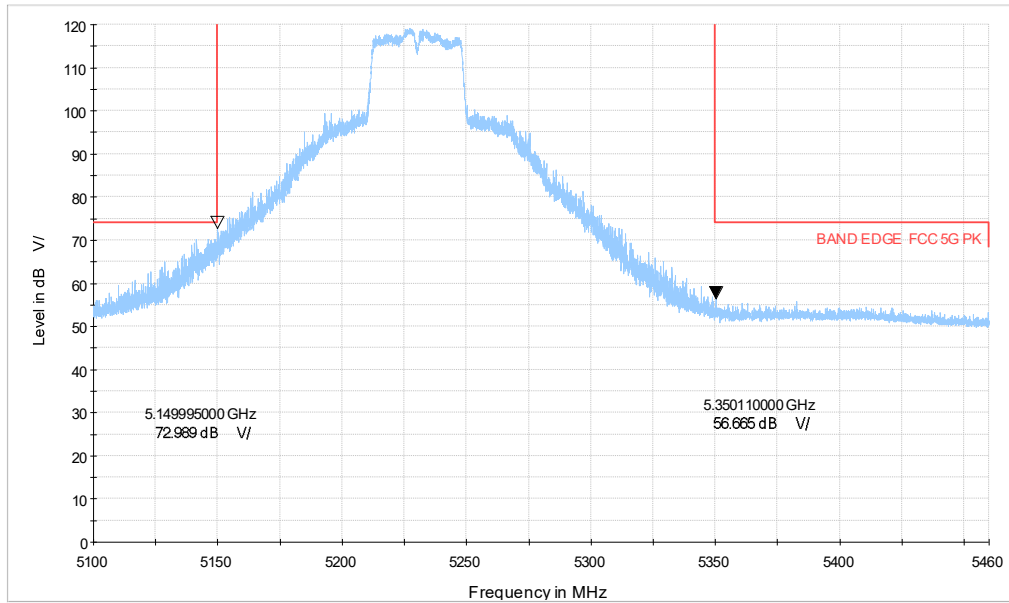
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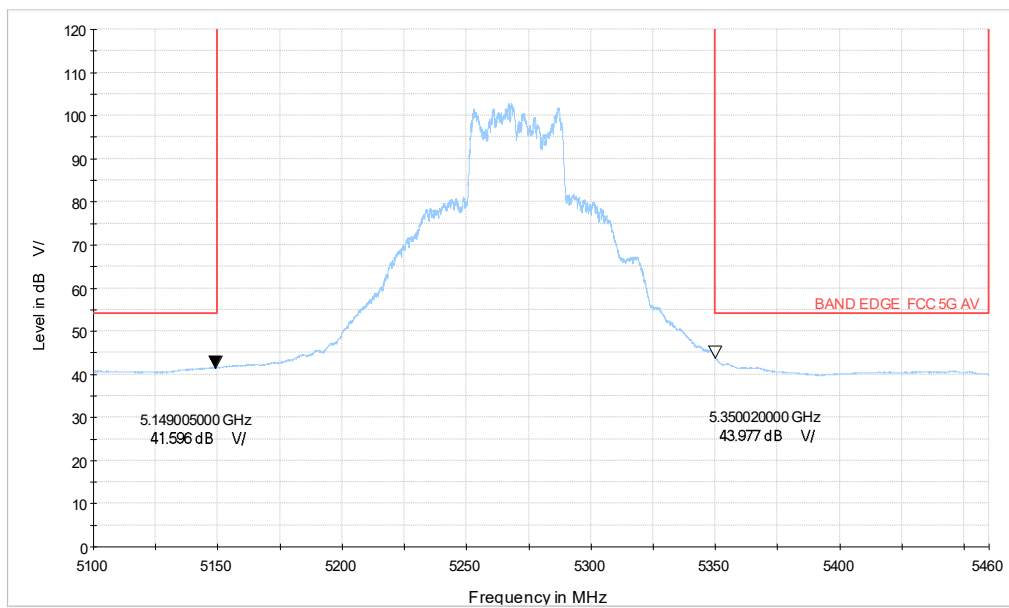
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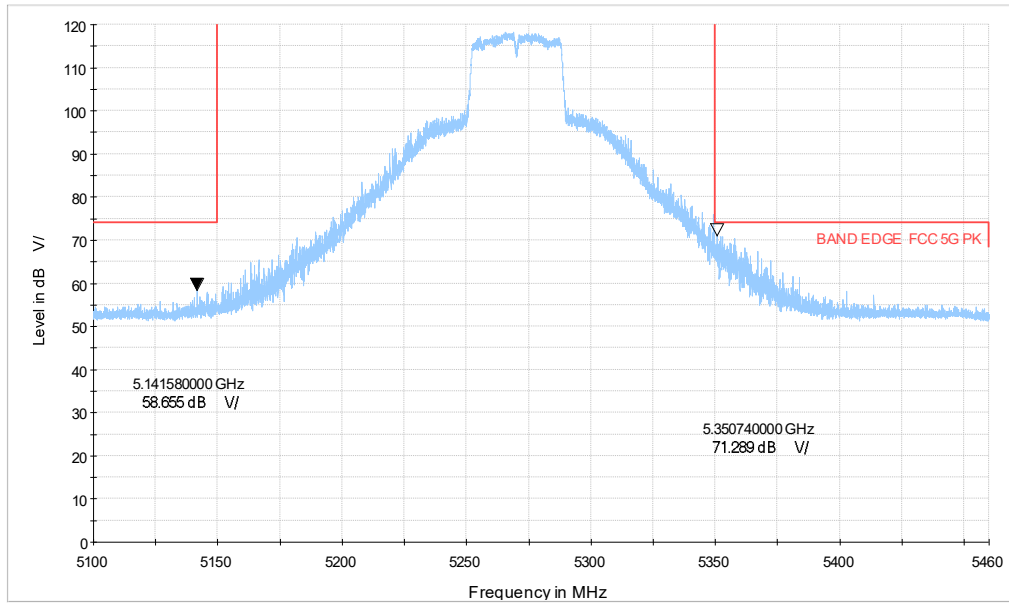
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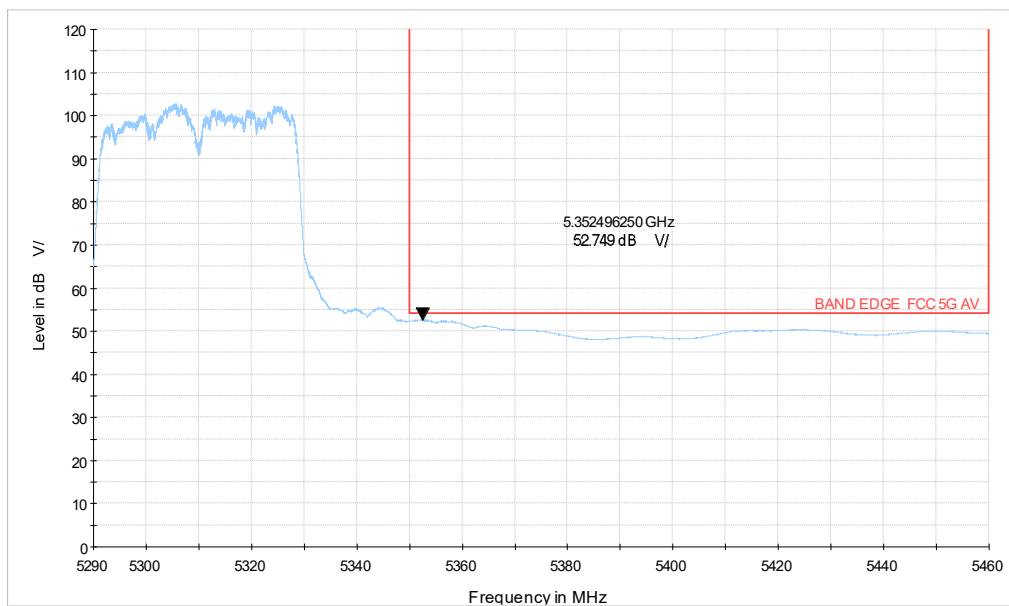
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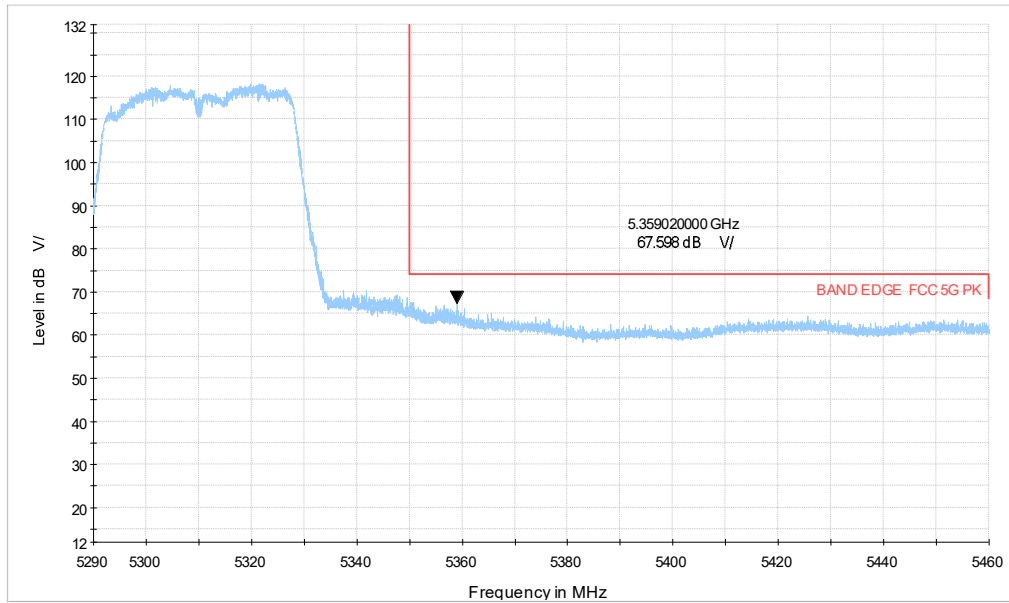
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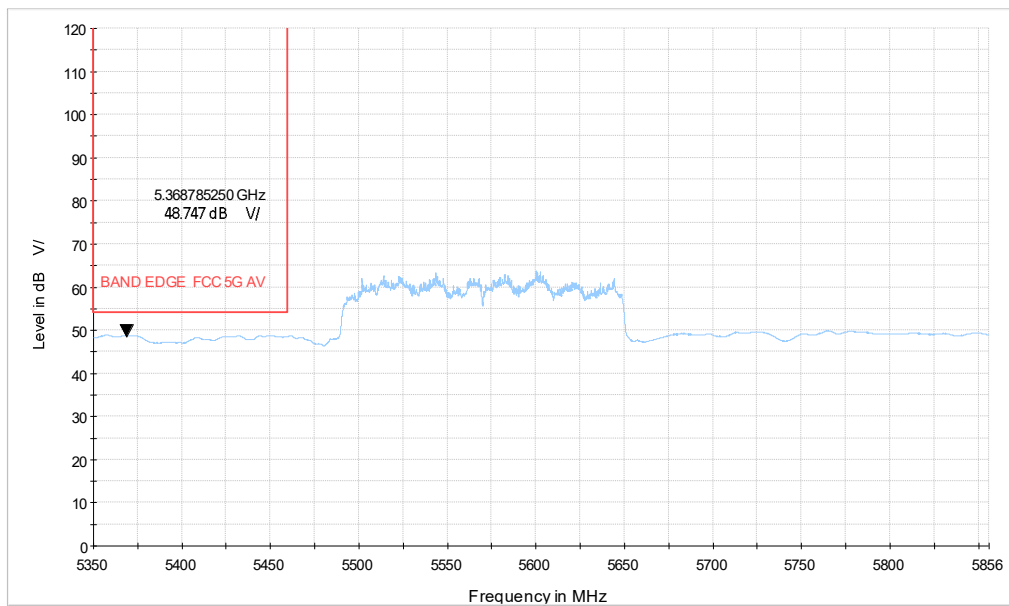


5G WIFI_n40 CH62_5.29-5.46GHz_AV

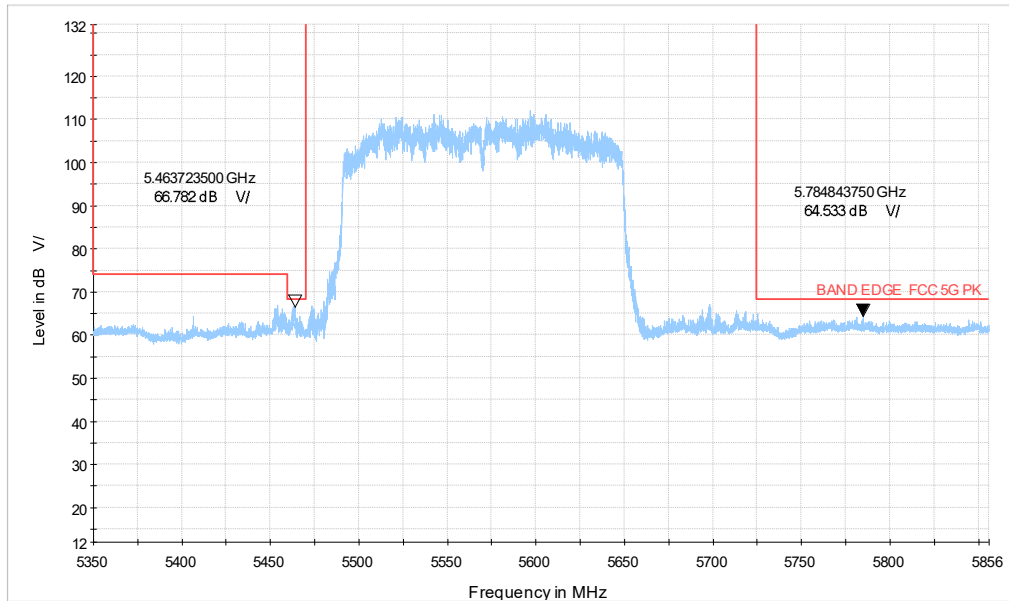


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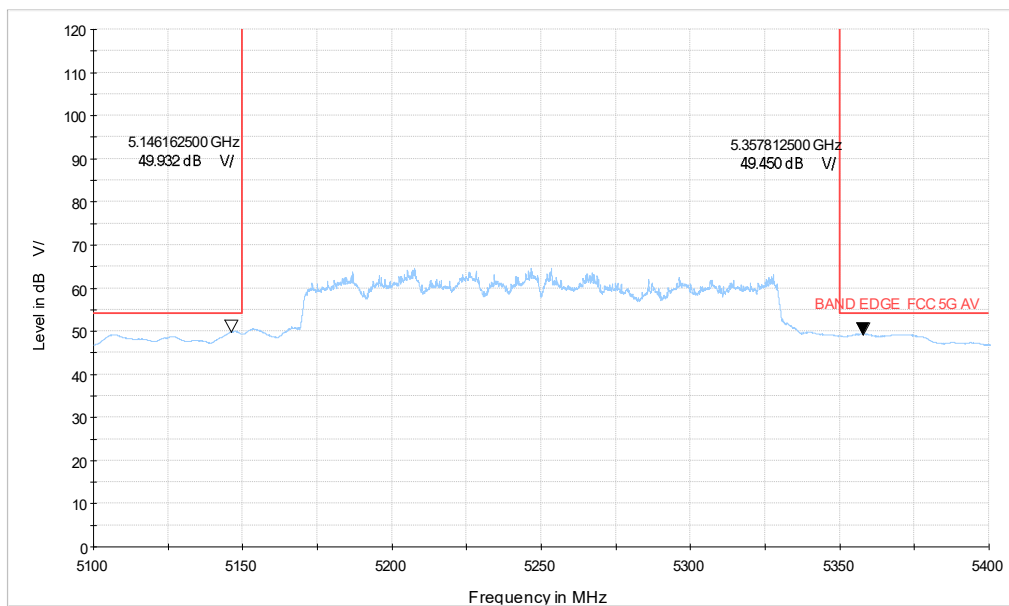
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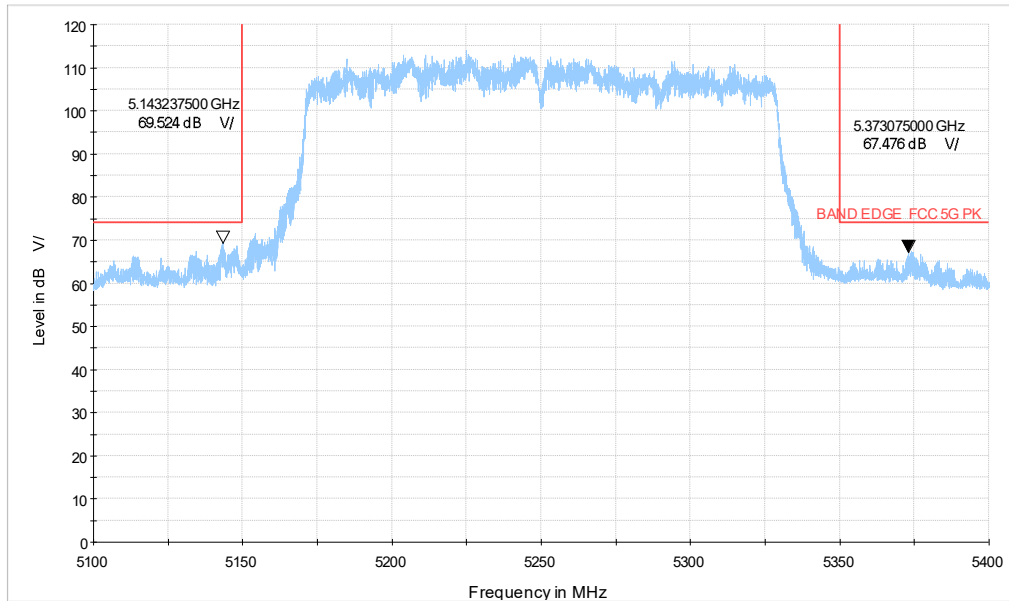
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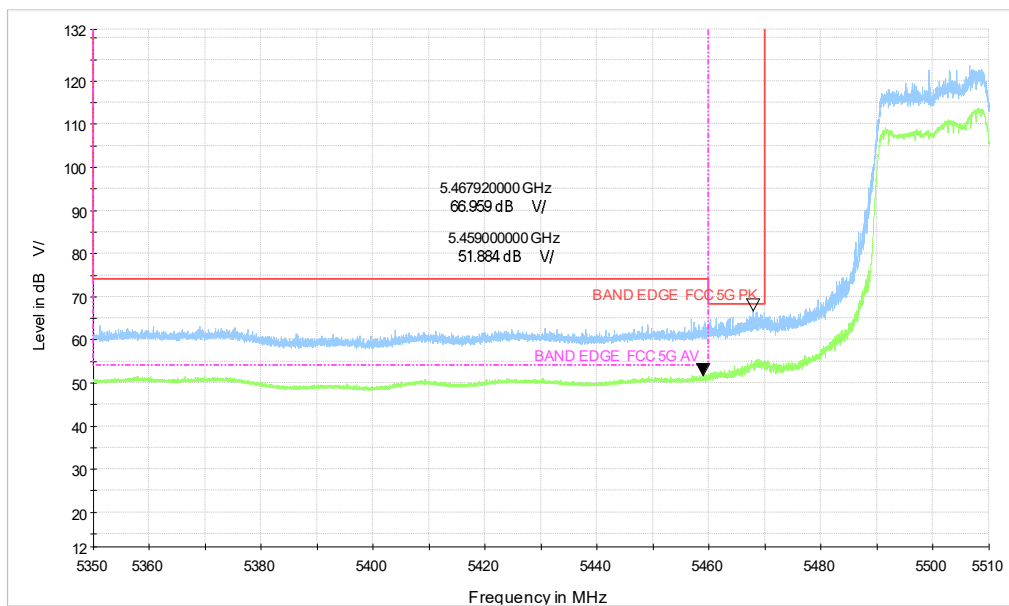
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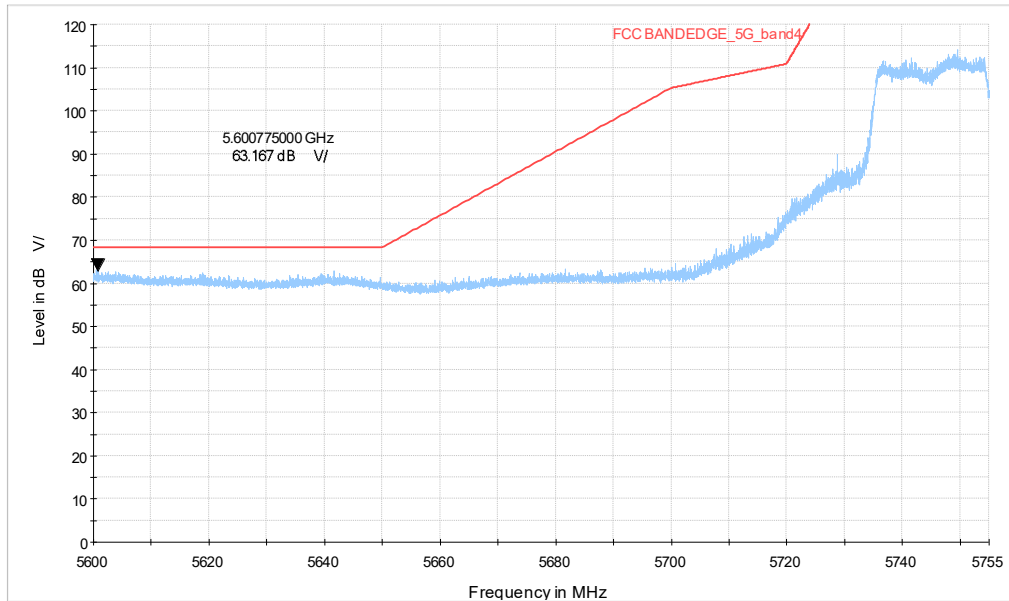
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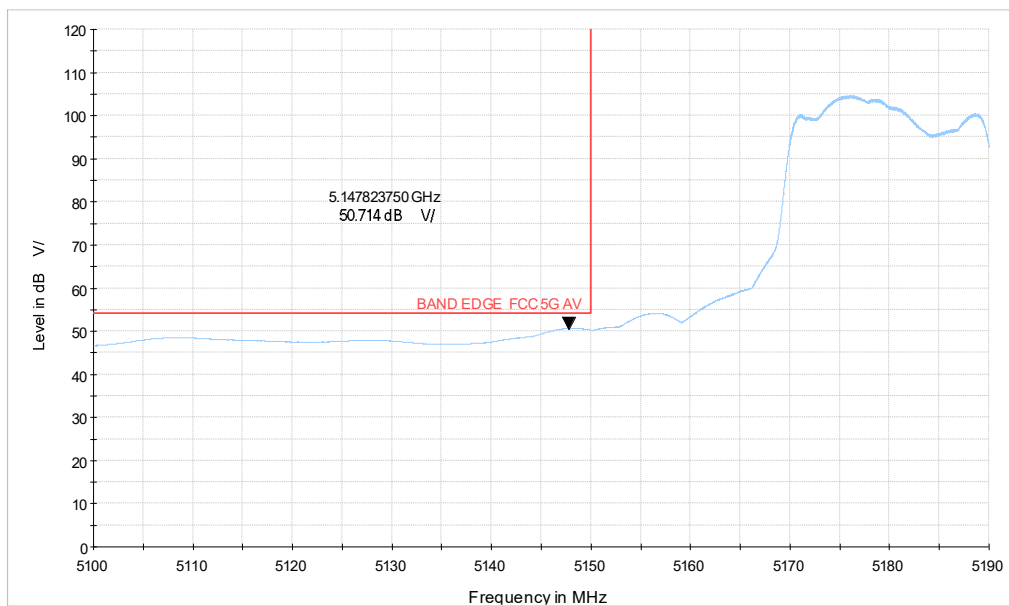
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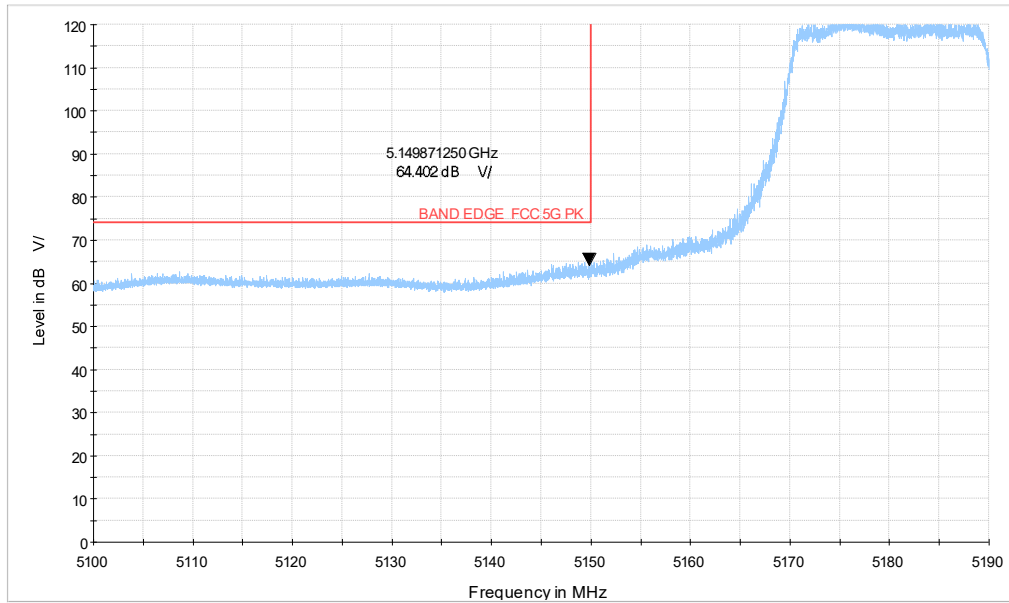
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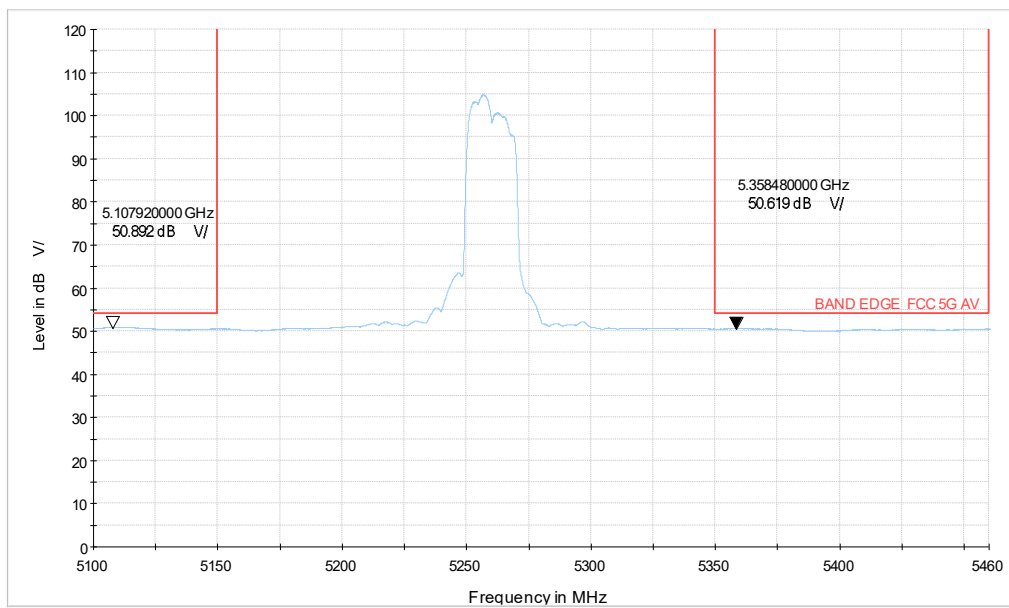
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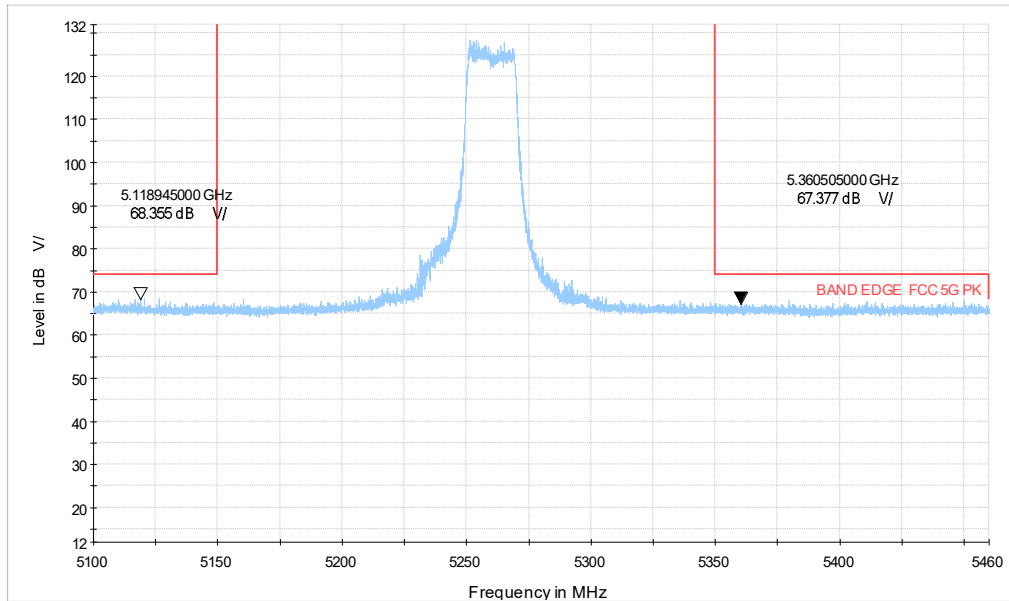
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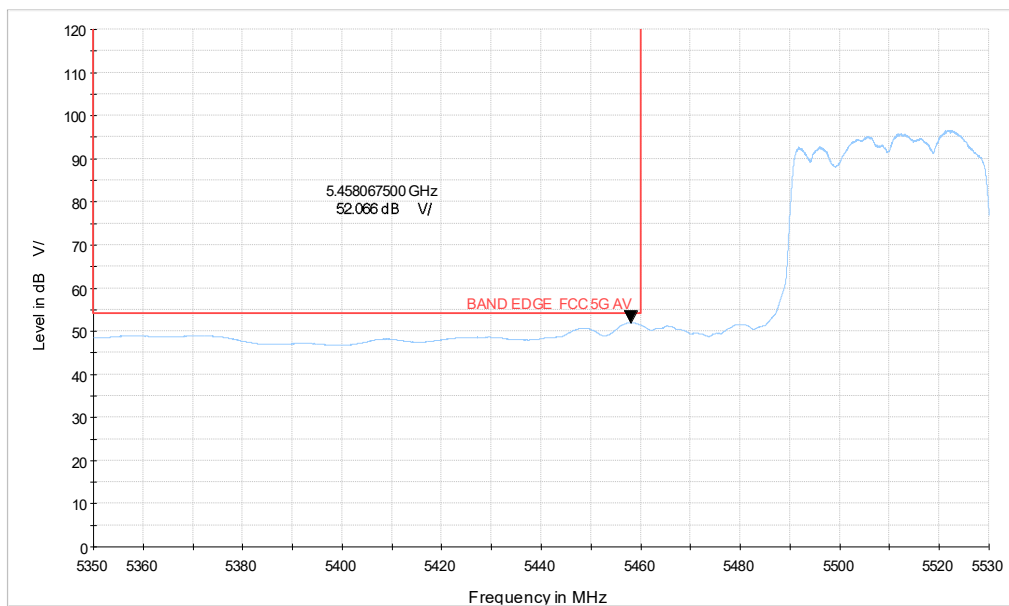
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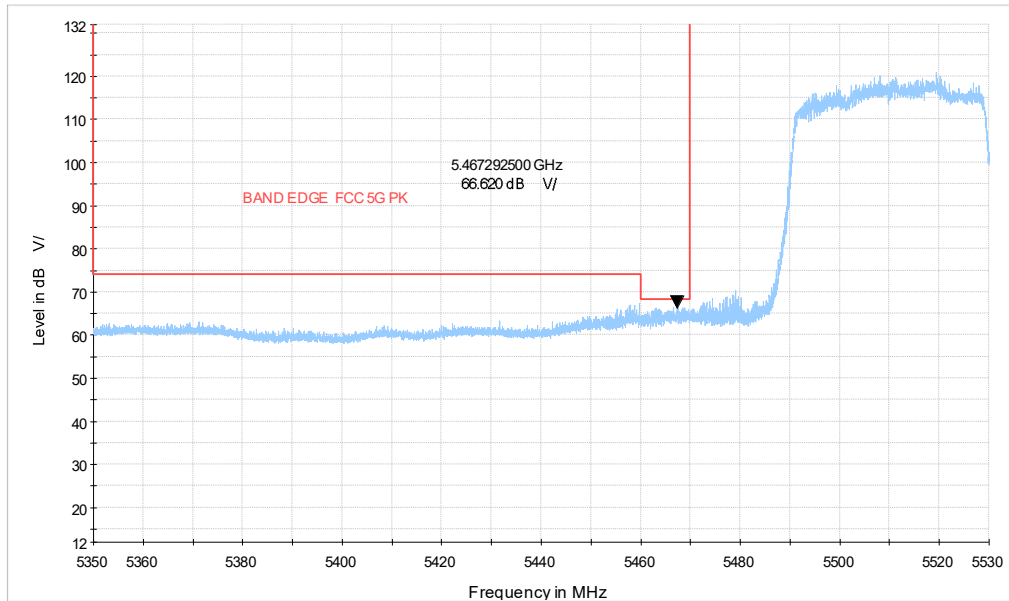
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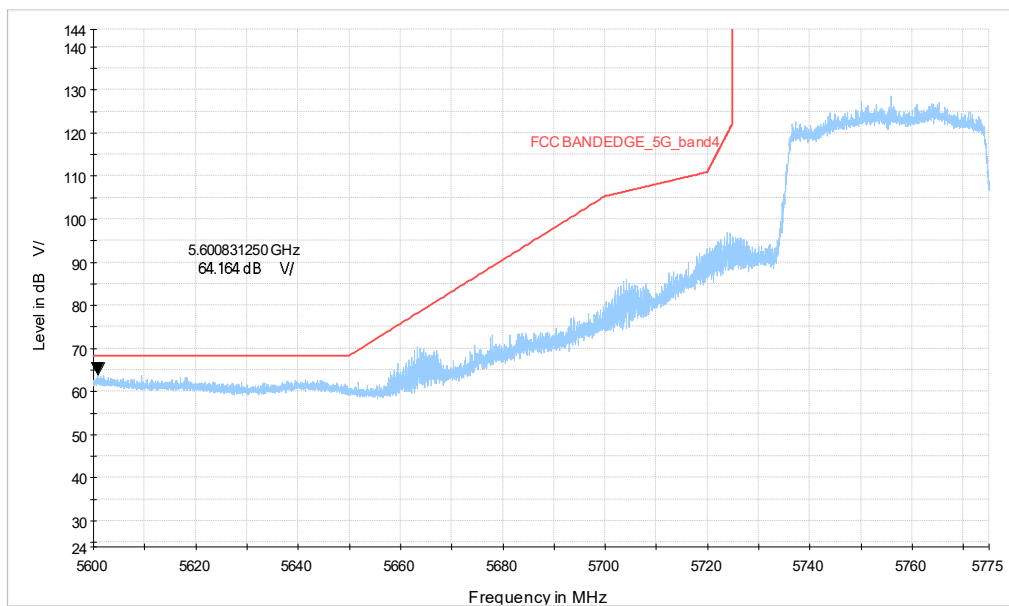
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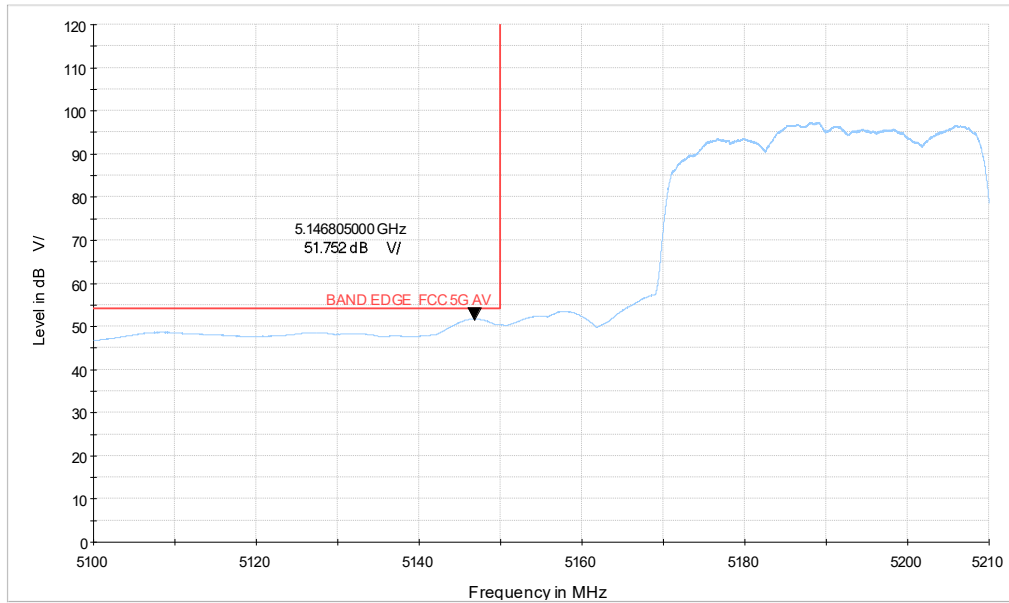
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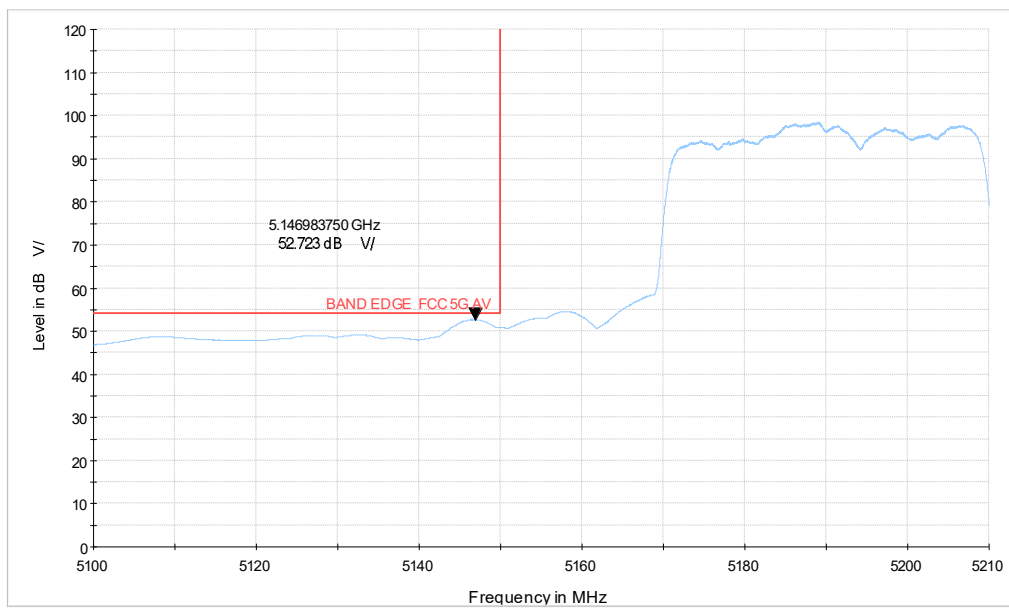
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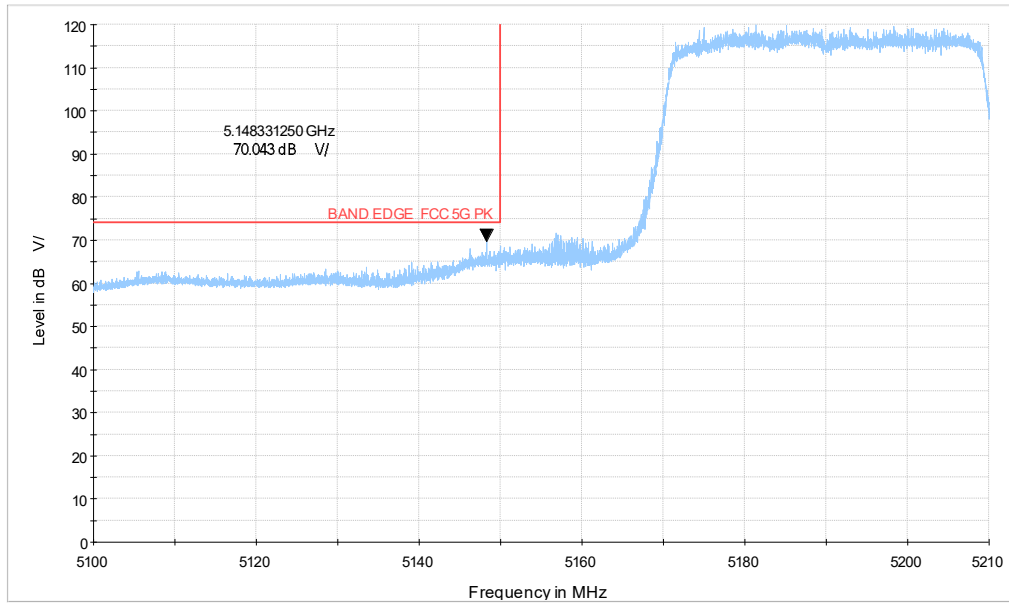
ax40-484TONE_CH151_5.6-5.775GHz_0412



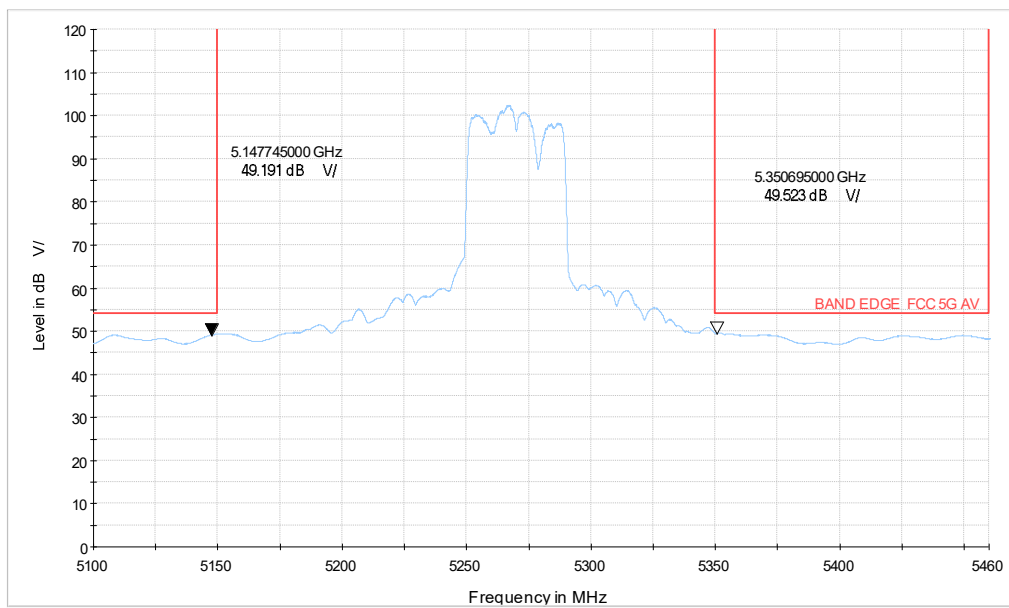
ax40-484TONE_CH38_5.1-5.21GHz_AV



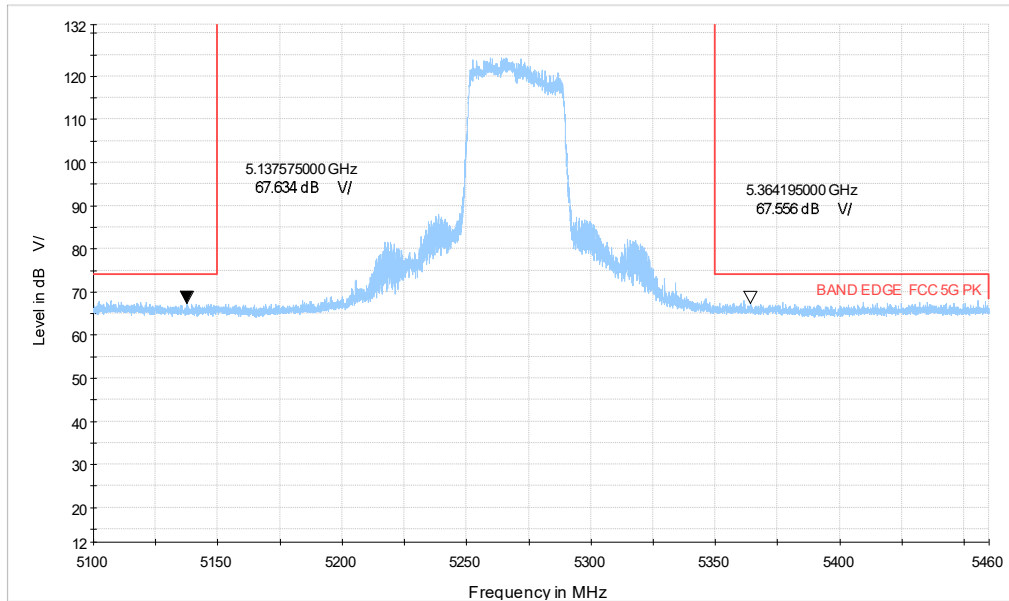
ax40-484TONE_CH38_5.1-5.21GHz_AV



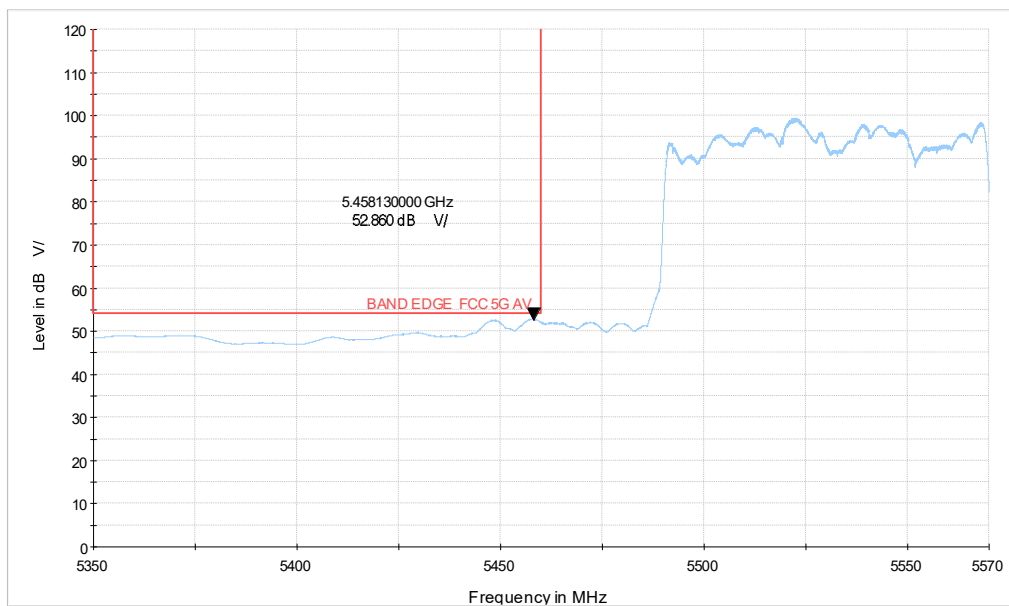
ax40-484TONE_CH38_5.1-5.21GHz_PK



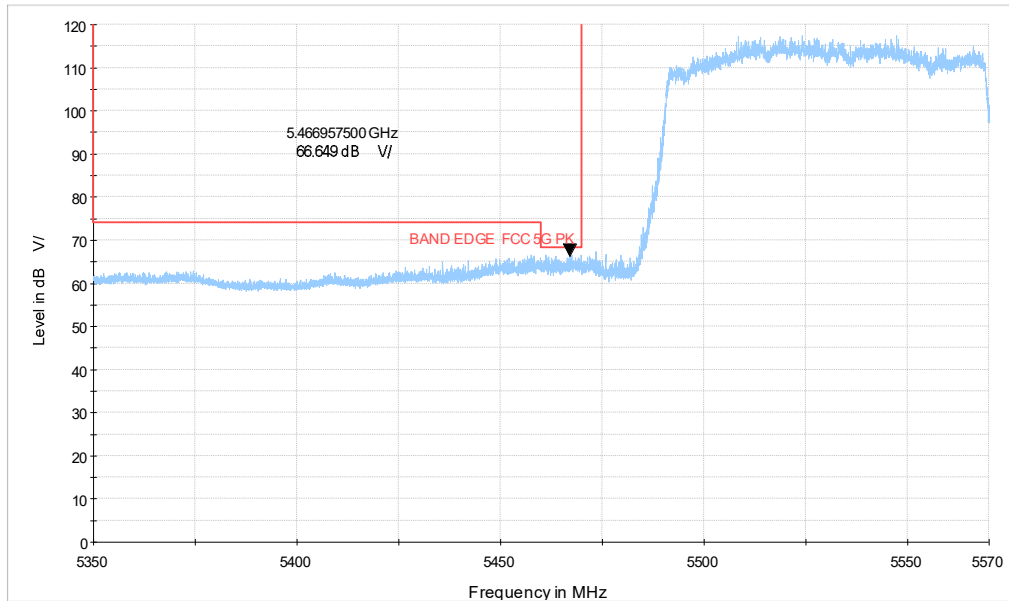
ax40-484TONE_CH54_5.1-5.46GHz_AV



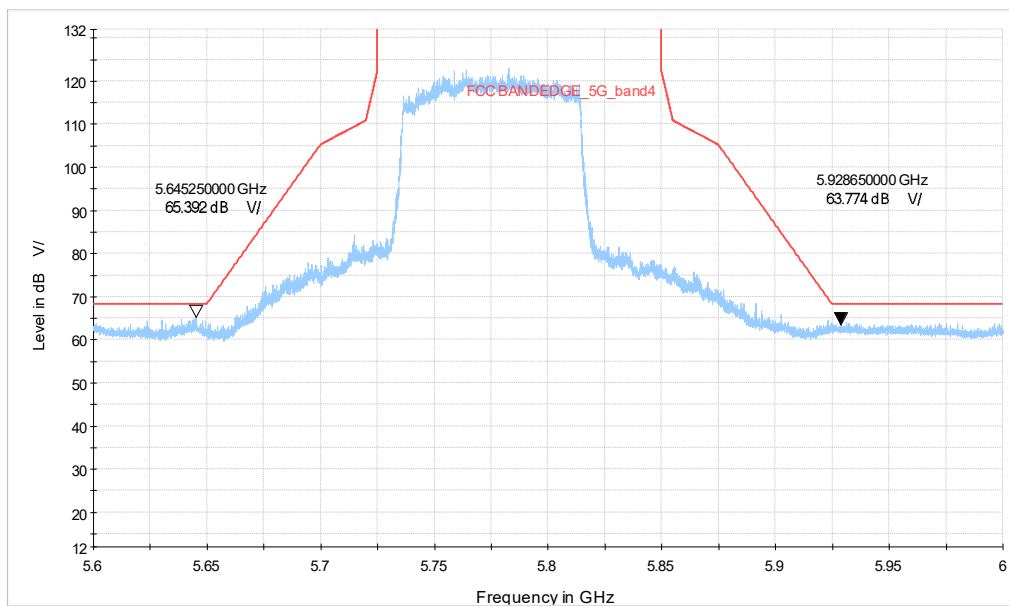
ax40-484TONE_CH54_5.1-5.46GHz_PK



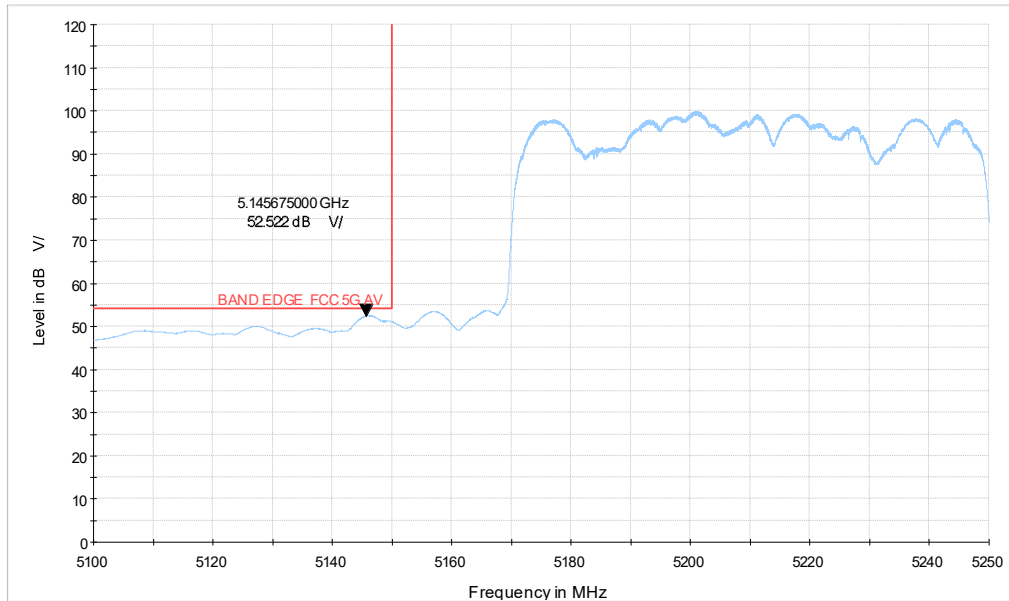
ax80-996TONE_CH106_5.35-5.57GHz_AV



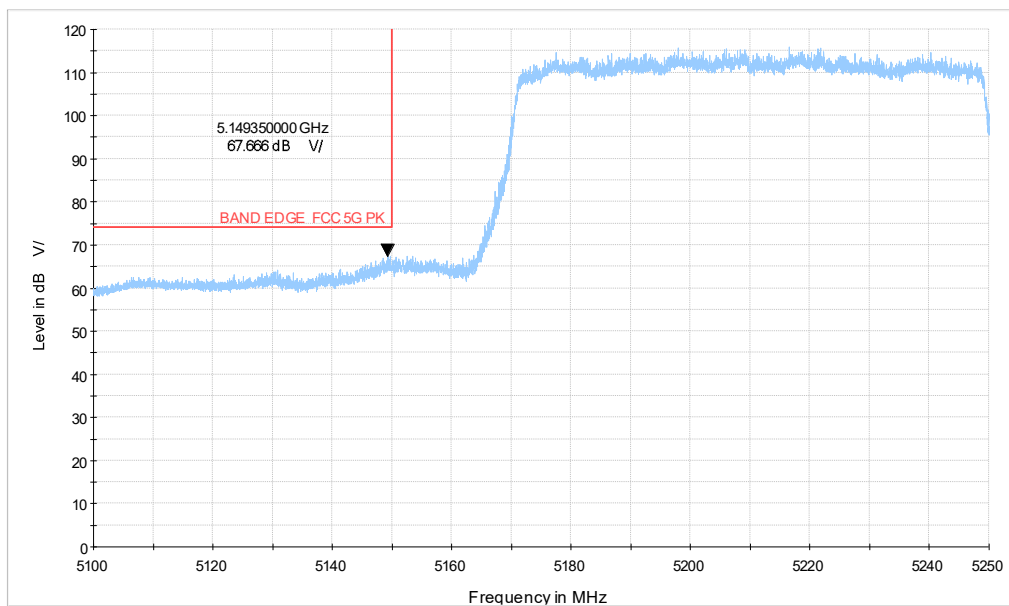
ax80-996TONE_CH106_5.35-5.57GHz_PK



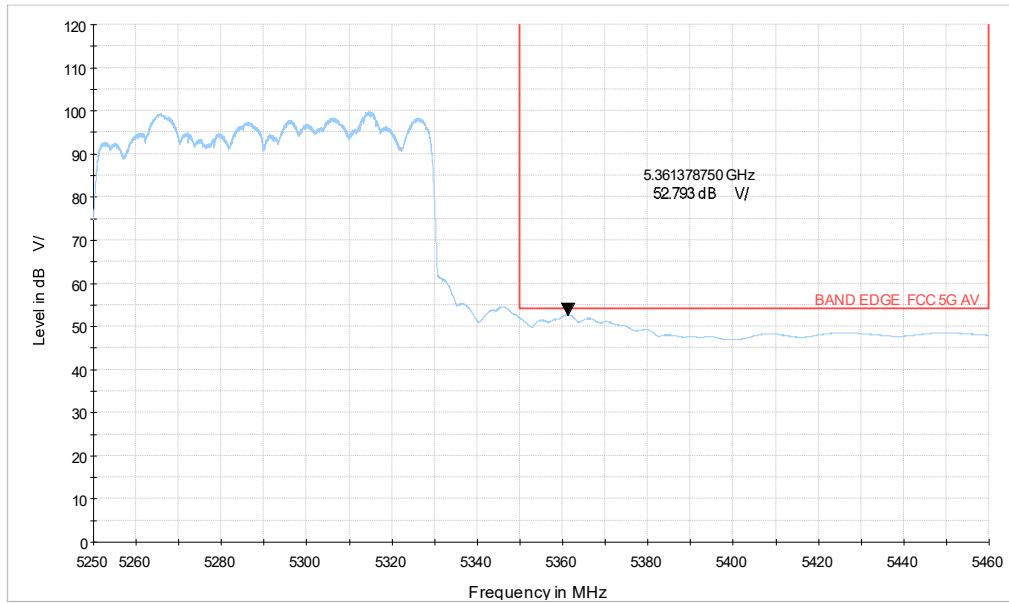
ax80-996TONE_CH155_5.6-6GHz



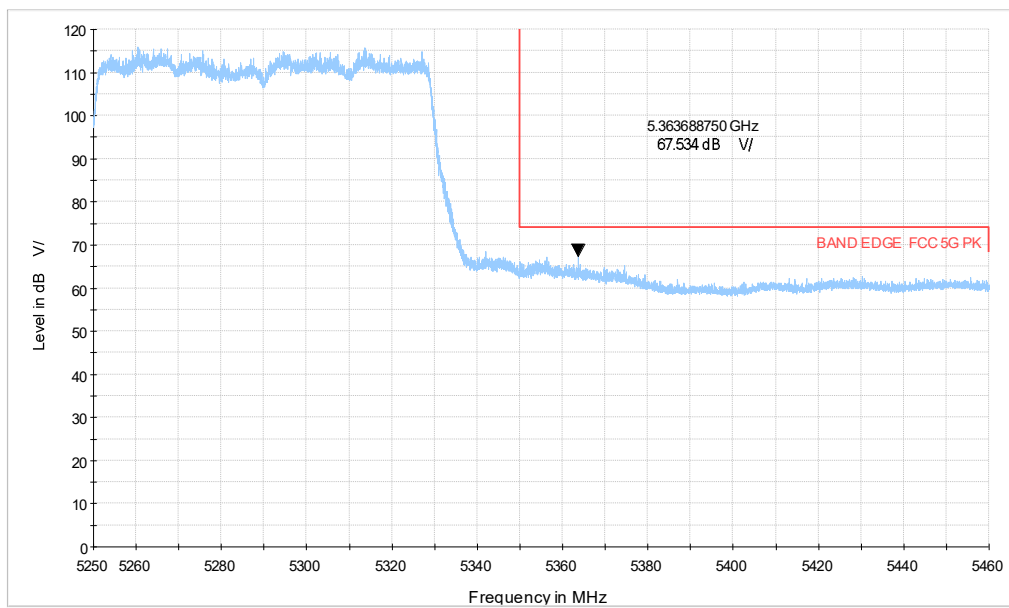
ax80-996TONE_CH42_5.1-5.25GHz_AV



ax80-996TONE_CH42_5.1-5.25GHz_PK



ax80-996TONE_CH58_5.25-5.46GHz_AV



ax80-996TONE_CH58_5.25-5.46GHz_PK

Result of RE

Test result

Sweep the whole frequency band through the range from 9kHz to the 10th harmonic of the carrier.

After the pretest, MIMO was selected as the worst antenna

Remark:

1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)
2. Margin = Limit – Quasi-Peak/ MAX Peak/ Average
3. A symbol ($\text{dB}\mu\text{V/m}$) in the test plot below means (dB $\mu\text{V/m}$)
A symbol ($\text{dB}\mu\text{V}$) in the test plot below means (dB $\mu\text{V/m}$)
4. For below 1GHz

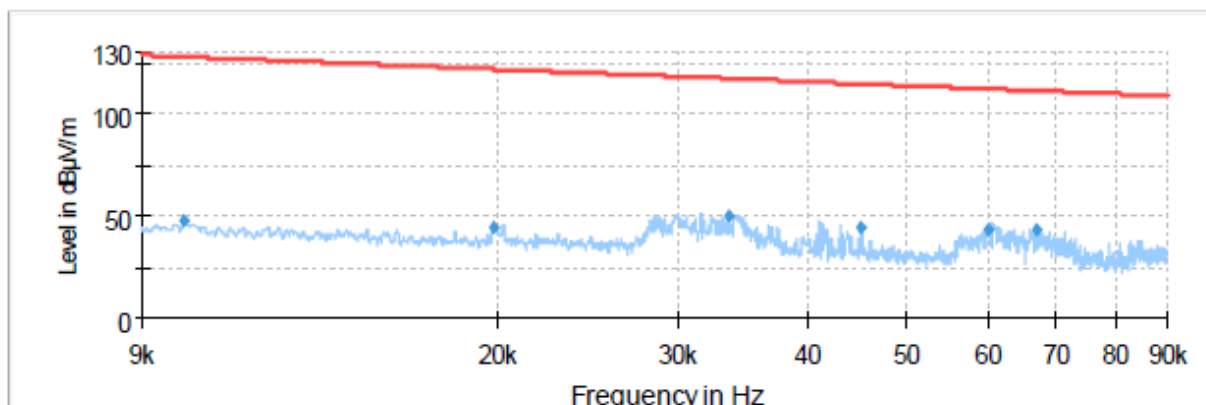
~ QP Level @Spectrum Overview H ~ QP Level @Spectrum Overview V ◆ QP Level @Final Results — QP Limit

For above 1GHz

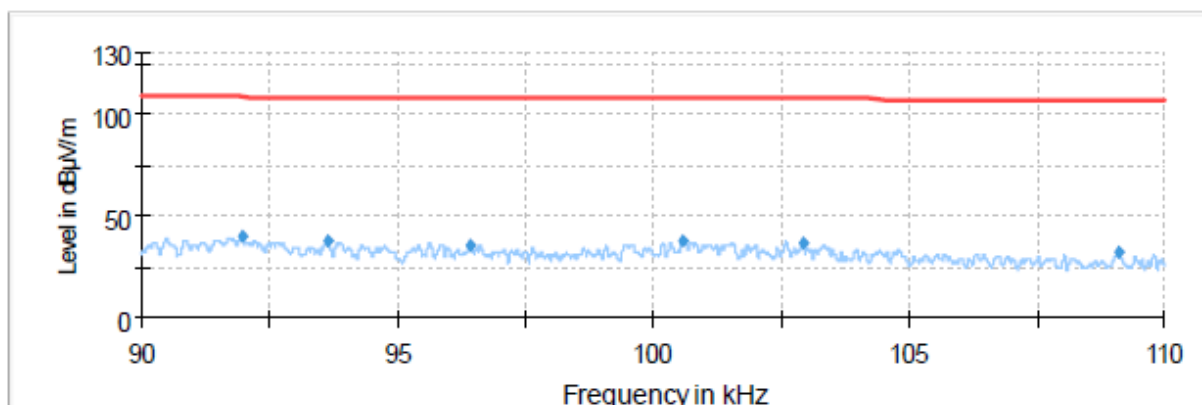
~ PK Level @Spectrum Overview H ~ PK Level @Spectrum Overview V ◆ PK Level @Final Results — PK Limit
~ AVG Level @Spectrum Overview H ~ AVG Level @Spectrum Overview V ◆ AVG Level @Final Results — AVG Limit

Continuous TX mode:

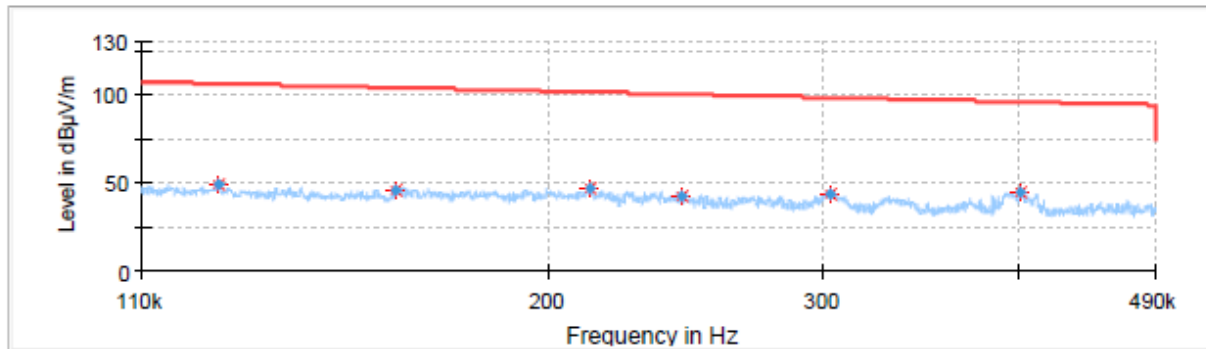
During the test, the Radiates Emission from 9kHz to 1GHz was performed in all modes with all channels. The test data of the worst-case condition was recorded in this report.



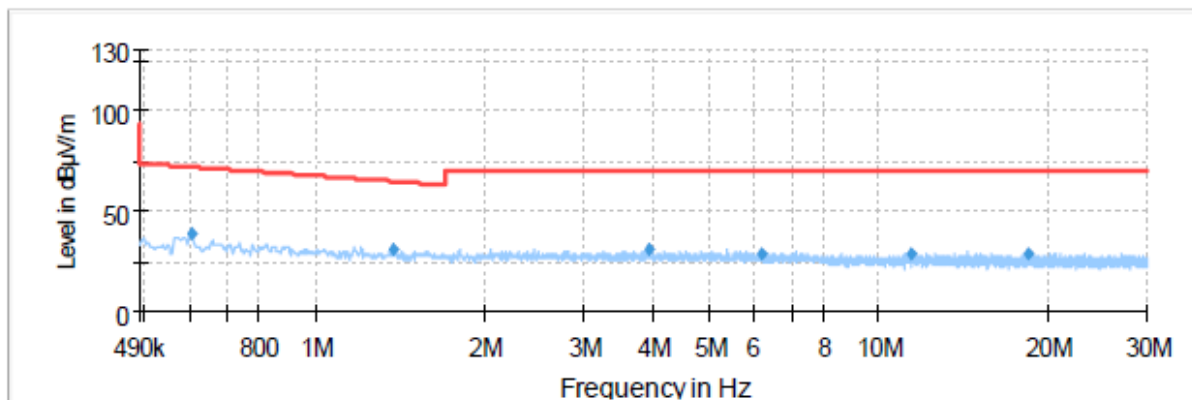
Radiates Emission from 9kHz to 90kHz



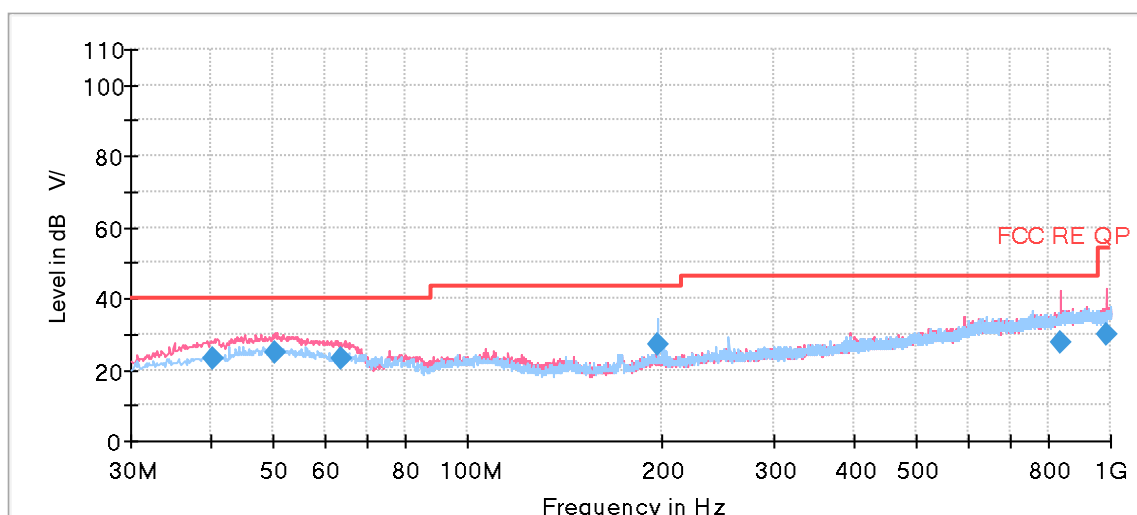
Radiates Emission from 90kHz to 110kHz



Radiates Emission from 110kHz to 490kHz



Radiates Emission from 490kHz to 30MHz



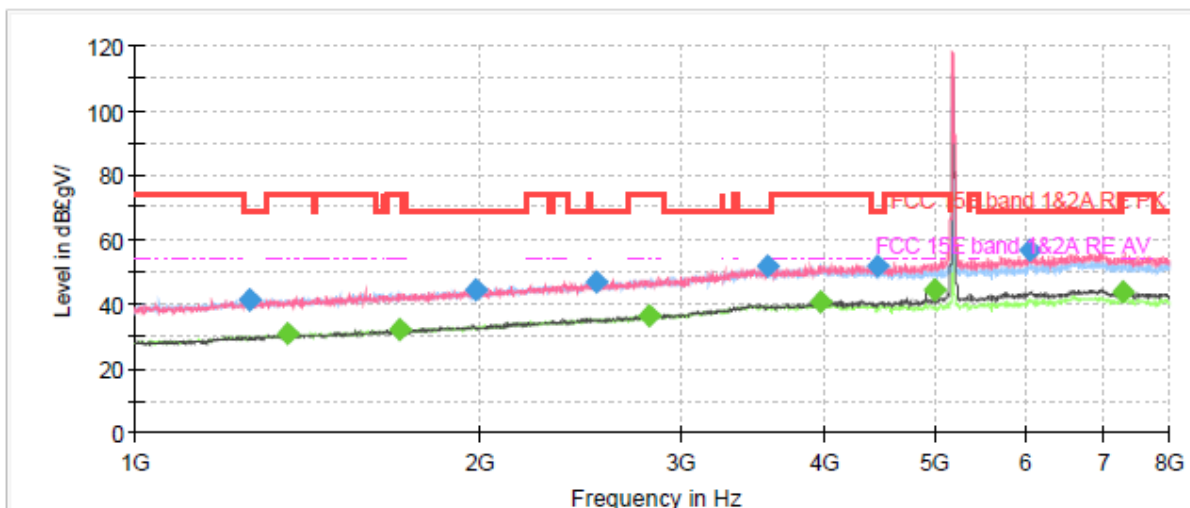
Radiates Emission from 30MHz to 1GHz

Frequency (MHz)	Quasi-Peak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Polarization	Azimuth (deg)	Correct Factor (dB)
40.352500	23.37	40.00	16.63	100.0	V	18.0	19.8
50.372500	24.83	40.00	15.17	100.0	V	340.0	21.1
63.915000	23.23	40.00	16.77	100.0	V	34.0	18.4
197.770000	27.07	43.50	16.43	175.0	H	13.0	18.9
838.576250	27.76	46.00	18.24	122.0	V	135.0	30.5
986.705000	29.94	54.00	24.06	110.0	V	0.0	31.3

Remark: 1. Correction Factor = Antenna factor + Insertion loss (cable loss + amplifier gain)

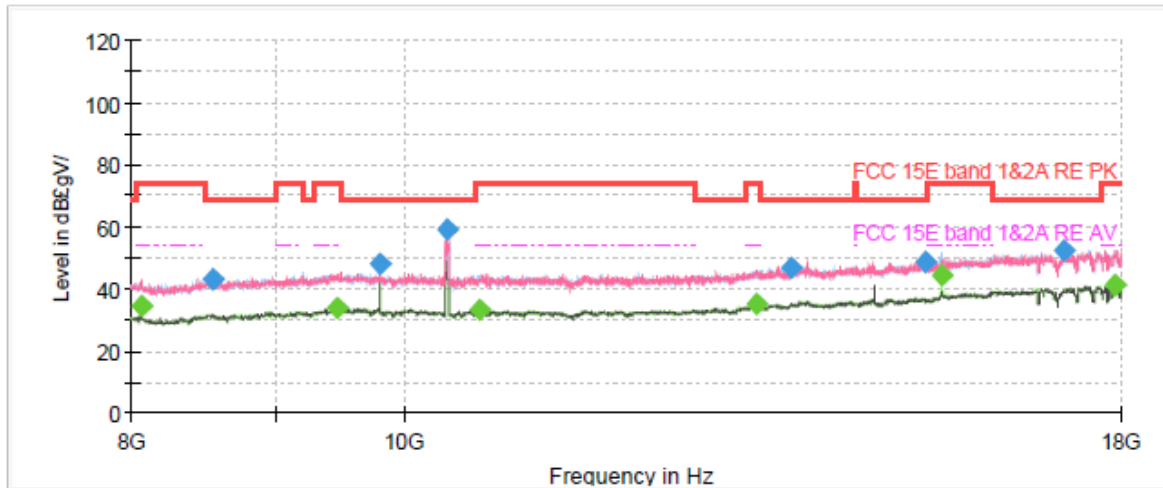
2. Margin = Limit – Quasi-Peak

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Final Result

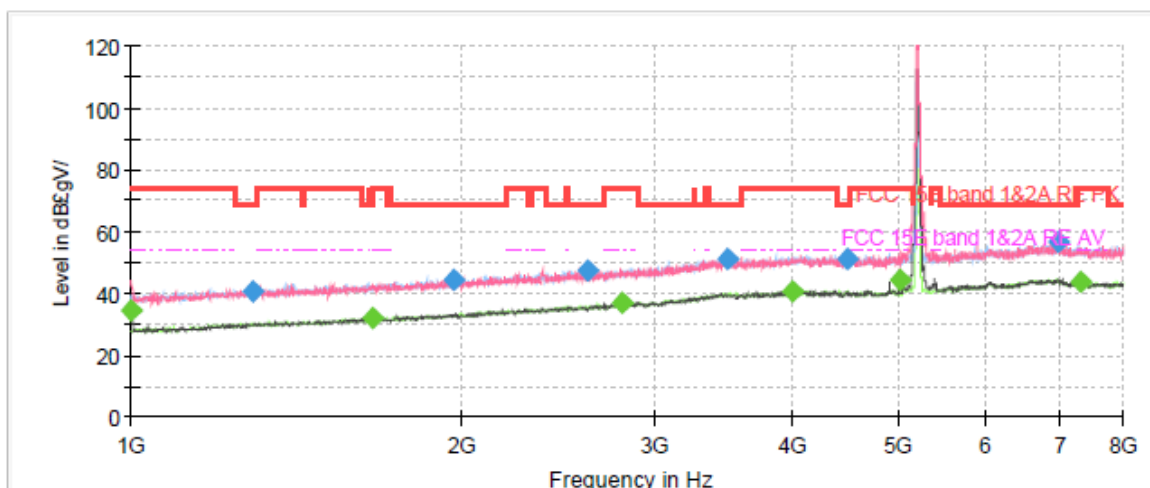
Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1258.125000	41.17	---	68.20	27.03	500.0	100.0	V	8.0	-8.6
1358.750000	---	30.47	54.00	23.53	500.0	100.0	H	118.0	-7.8
1704.375000	---	32.03	54.00	21.97	500.0	100.0	V	302.0	-6.0
1983.500000	44.59	---	68.20	23.61	500.0	100.0	V	74.0	-4.6
2526.000000	47.04	---	68.20	21.16	500.0	200.0	H	42.0	-2.2
2813.875000	---	36.59	54.00	17.41	500.0	200.0	V	356.0	-1.2
3560.250000	51.62	---	68.20	16.58	500.0	200.0	V	311.0	1.7
3961.000000	---	40.57	54.00	13.43	500.0	200.0	V	223.0	2.9
4458.000000	51.88	---	68.20	16.32	500.0	200.0	V	177.0	3.6
4995.250000	---	44.26	54.00	9.74	500.0	100.0	V	159.0	4.4
6033.875000	56.84	---	68.20	11.36	500.0	200.0	V	154.0	5.8
7297.375000	---	43.58	54.00	10.42	500.0	200.0	V	265.0	7.0



Final Result

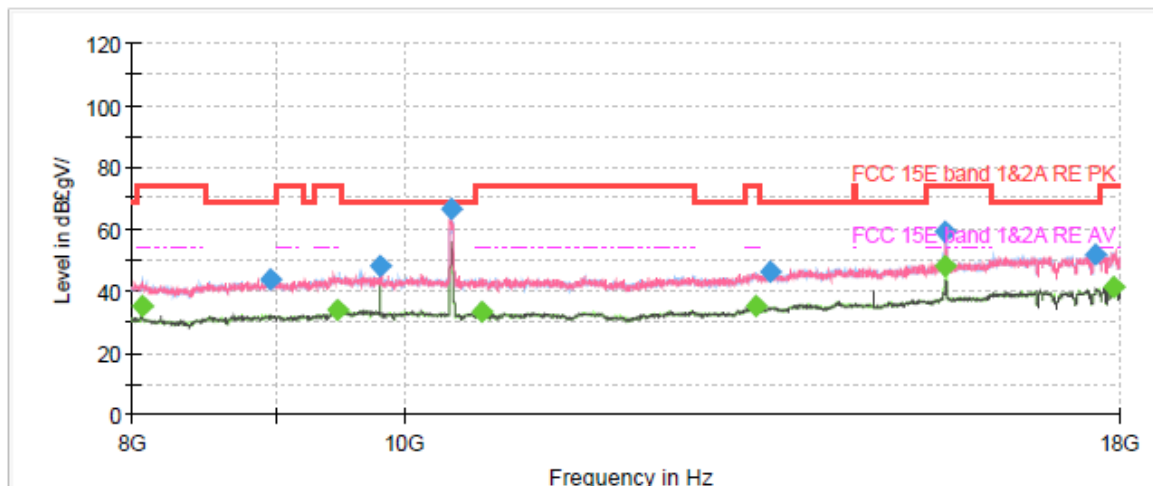
Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8062.500000	---	34.50	54.00	19.50	500.0	200.0	V	14.0	-2.4
8550.000000	43.28	---	68.20	24.92	500.0	200.0	H	288.0	-1.8
9471.250000	---	34.15	54.00	19.85	500.0	200.0	V	64.0	-0.1
9807.500000	47.81	---	68.20	20.39	500.0	200.0	H	244.0	-0.4
10360.000000	58.87	---	68.20	9.33	500.0	200.0	H	5.0	-1.0
10648.750000	---	33.39	54.00	20.61	500.0	200.0	H	0.0	-0.8
13342.500000	---	34.91	54.00	19.09	500.0	200.0	V	45.0	2.3
13736.250000	46.69	---	68.20	21.51	500.0	200.0	H	67.0	3.4
15341.250000	48.73	---	68.20	19.47	500.0	200.0	V	244.0	5.7
15540.000000	---	44.09	54.00	9.91	500.0	200.0	H	302.0	6.2
17191.250000	52.37	---	68.20	15.83	500.0	200.0	H	152.0	9.1
17912.500000	---	41.15	54.00	12.85	500.0	200.0	H	321.0	10.1

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Final Result

Frequency (MHz)	MaxPeak (dBµgV/m)	Average (dBµgV/m)	Limit (dBµgV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1000.875000	---	34.61	54.00	19.39	500.0	200.0	V	325.0	-10.7
1293.125000	40.81	---	68.20	27.39	500.0	200.0	V	129.0	-8.2
1661.500000	---	32.17	54.00	21.83	500.0	200.0	H	136.0	-6.1
1964.250000	44.58	---	68.20	23.62	500.0	200.0	H	77.0	-4.7
2601.250000	47.66	---	68.20	20.54	500.0	200.0	H	77.0	-2.0
2795.500000	---	36.70	54.00	17.30	500.0	200.0	V	0.0	-1.3
3485.875000	51.05	---	68.20	17.15	500.0	200.0	H	44.0	1.7
3994.250000	---	40.79	54.00	13.21	500.0	200.0	V	316.0	3.2
4484.250000	51.09	---	68.20	17.11	500.0	200.0	V	353.0	3.8
5015.375000	---	44.61	54.00	9.39	500.0	200.0	V	330.0	4.4
6982.375000	56.39	---	68.20	11.81	500.0	200.0	H	163.0	7.1
7314.000000	---	43.78	54.00	10.22	500.0	200.0	V	247.0	7.0



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
8062.500000	---	35.15	54.00	18.85	500.0	200.0	V	11.0	-2.4
8963.750000	43.58	---	68.20	24.62	500.0	200.0	H	73.0	-1.3
9470.000000	---	33.55	54.00	20.45	500.0	200.0	V	263.0	-0.1
9807.500000	47.78	---	68.20	20.42	500.0	200.0	V	21.0	-0.4
10402.500000	66.18	---	68.20	2.02	500.0	200.0	V	319.0	-1.0
10666.250000	---	33.21	54.00	20.79	500.0	200.0	V	55.0	-0.8
13353.750000	---	34.96	54.00	19.04	500.0	200.0	H	92.0	2.4
13513.750000	45.91	---	68.20	22.29	500.0	200.0	H	276.0	2.8
15595.000000	58.82	---	74.00	15.18	500.0	200.0	H	197.0	6.5
15595.000000	---	47.99	54.00	6.01	500.0	200.0	H	197.0	6.5
17646.250000	51.94	---	68.20	16.26	500.0	200.0	H	59.0	10.2
17915.000000	---	41.43	54.00	12.57	500.0	200.0	V	341.0	10.1