



## Appendix F

### RF Test Data for 5.5GWIFI(Conducted Measurement)

Product Name: Smart ARM PC BOX

Test Model: APC390K

#### Environmental Conditions

|                    |            |
|--------------------|------------|
| Temperature:       | 23.8°C     |
| Relative Humidity: | 52.1%      |
| ATM Pressure:      | 100.0 kPa  |
| Test Engineer:     | Paddi Chen |
| Supervised by:     | Nick Peng  |



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## F.1 -26dB Bandwidth

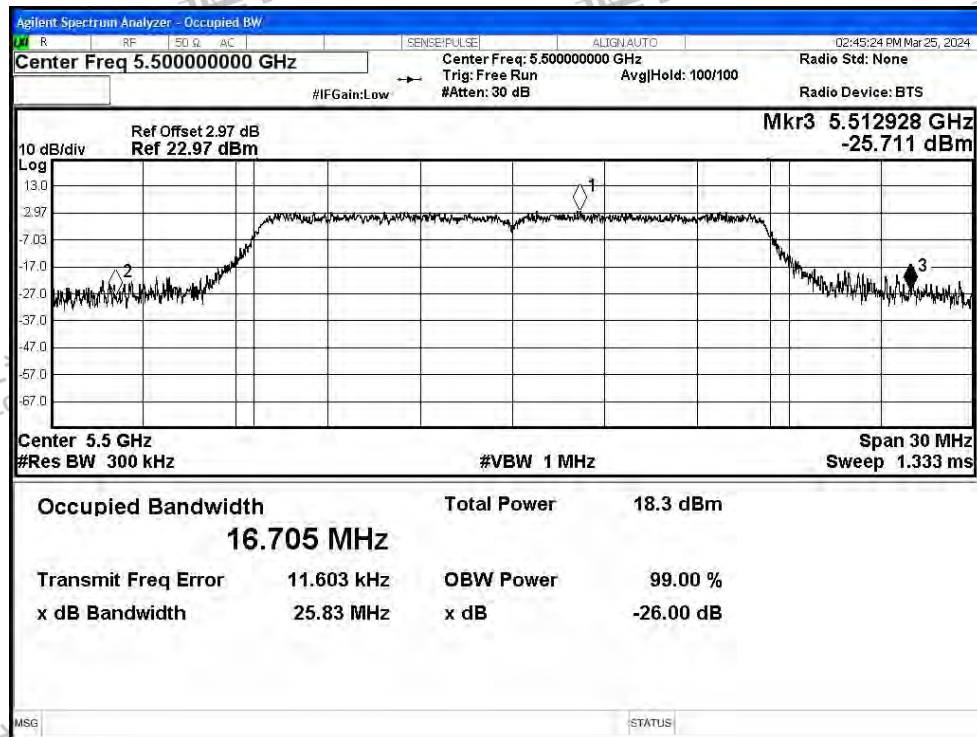
| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | a    | 5500            | Ant1    | 25.834                 | $\geq 0.5$                   | Pass    |
| NVNT      | a    | 5580            | Ant1    | 27.853                 | $\geq 0.5$                   | Pass    |
| NVNT      | a    | 5700            | Ant1    | 29.304                 | $\geq 0.5$                   | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 23.815                 | $\geq 0.5$                   | Pass    |
| NVNT      | n20  | 5580            | Ant1    | 27.998                 | $\geq 0.5$                   | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 26.324                 | $\geq 0.5$                   | Pass    |
| NVNT      | n40  | 5510            | Ant1    | 51.741                 | $\geq 0.5$                   | Pass    |
| NVNT      | n40  | 5550            | Ant1    | 45.359                 | $\geq 0.5$                   | Pass    |
| NVNT      | n40  | 5670            | Ant1    | 44.084                 | $\geq 0.5$                   | Pass    |
| NVNT      | ac20 | 5500            | Ant1    | 23.189                 | $\geq 0.5$                   | Pass    |
| NVNT      | ac20 | 5580            | Ant1    | 25.815                 | $\geq 0.5$                   | Pass    |
| NVNT      | ac20 | 5700            | Ant1    | 28.95                  | $\geq 0.5$                   | Pass    |
| NVNT      | ac40 | 5510            | Ant1    | 44.655                 | $\geq 0.5$                   | Pass    |
| NVNT      | ac40 | 5550            | Ant1    | 54.434                 | $\geq 0.5$                   | Pass    |
| NVNT      | ac40 | 5670            | Ant1    | 46.482                 | $\geq 0.5$                   | Pass    |
| NVNT      | ac80 | 5530            | Ant1    | 78.039                 | $\geq 0.5$                   | Pass    |
| NVNT      | ac80 | 5610            | Ant1    | 78.245                 | $\geq 0.5$                   | Pass    |



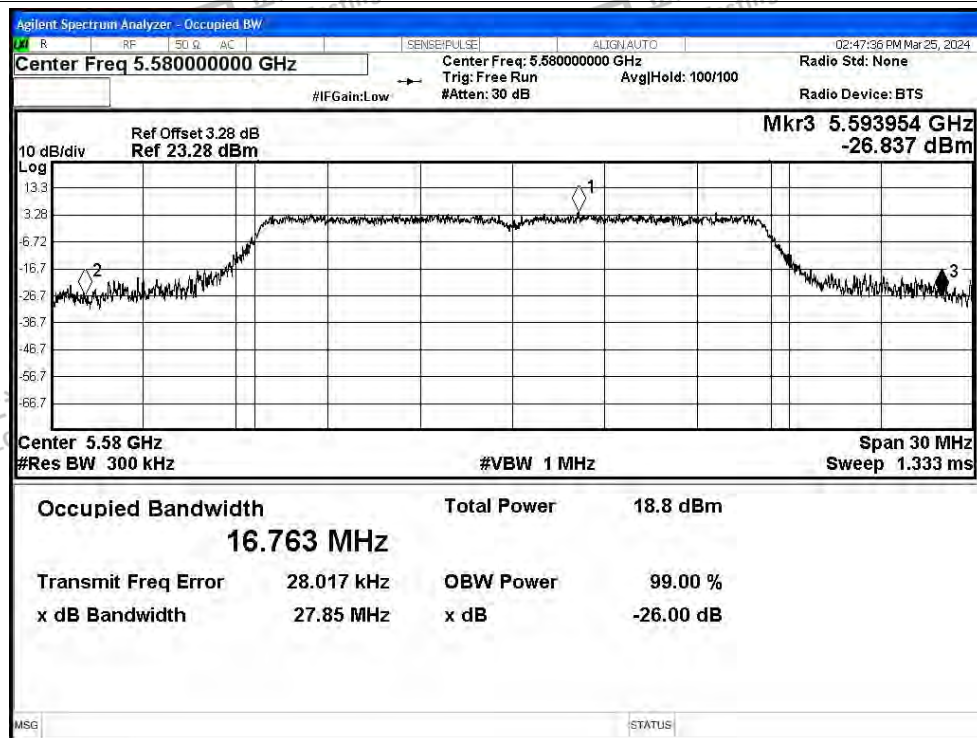


## Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant1



-26dB Bandwidth NVNT a 5580MHz Ant1



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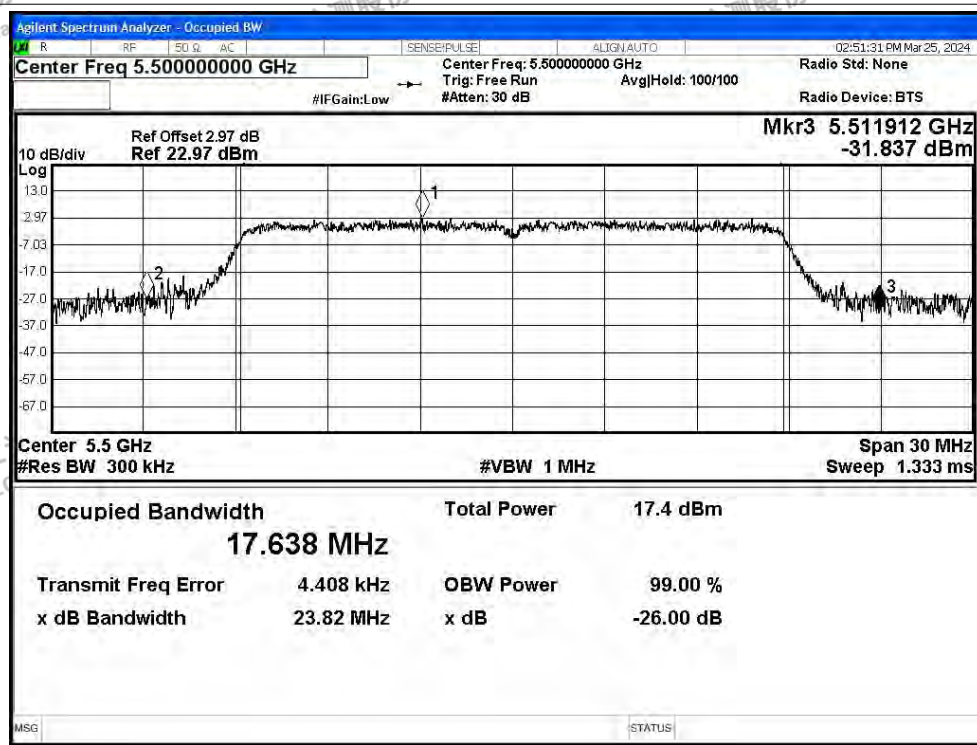
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-26dB Bandwidth NVNT a 5700MHz Ant1



-26dB Bandwidth NVNT n20 5500MHz Ant1



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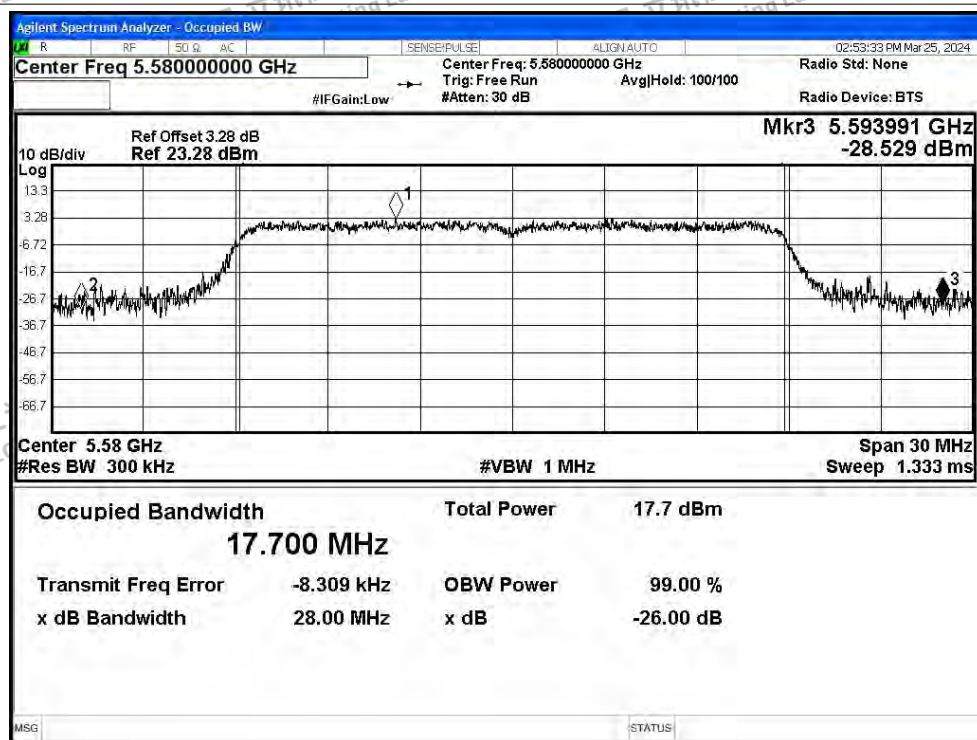
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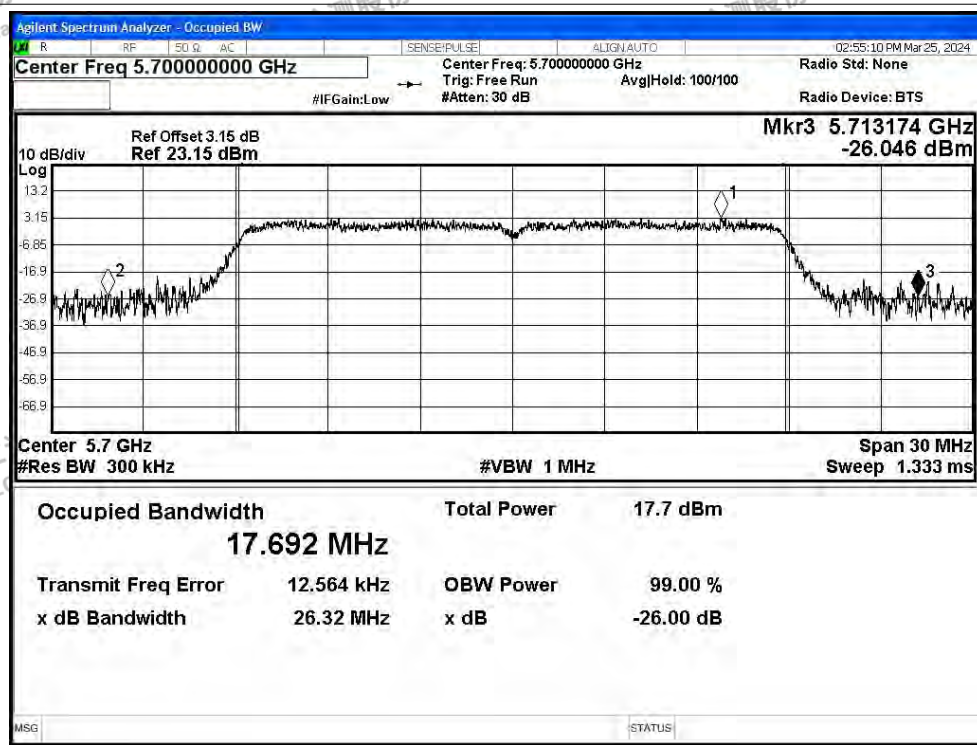
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-26dB Bandwidth NVNT n20 5580MHz Ant1



-26dB Bandwidth NVNT n20 5700MHz Ant1



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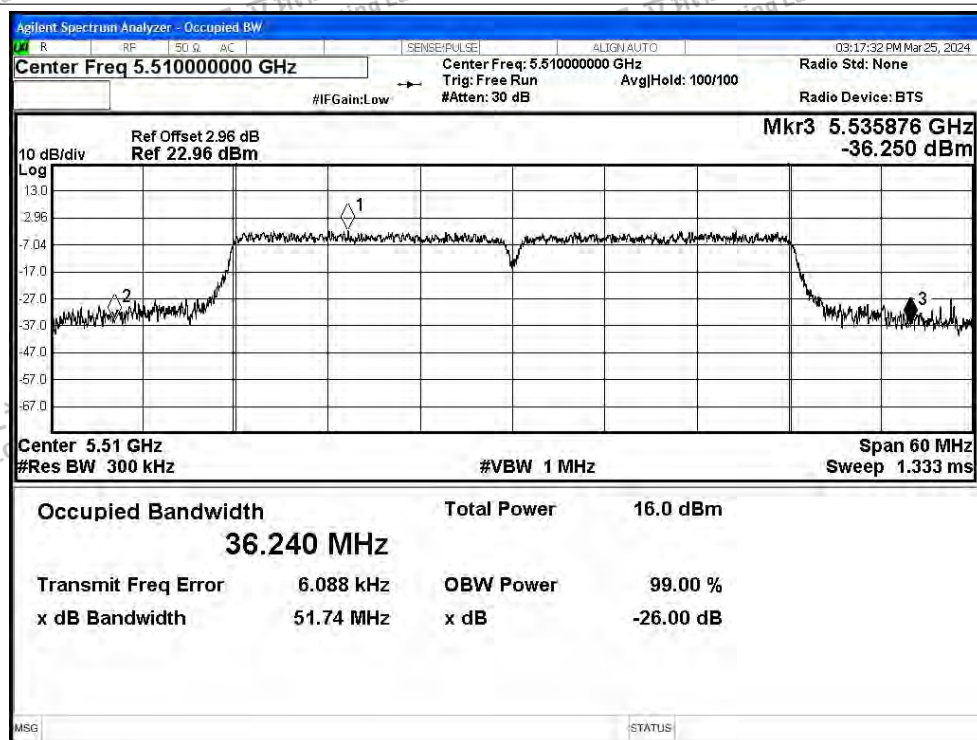
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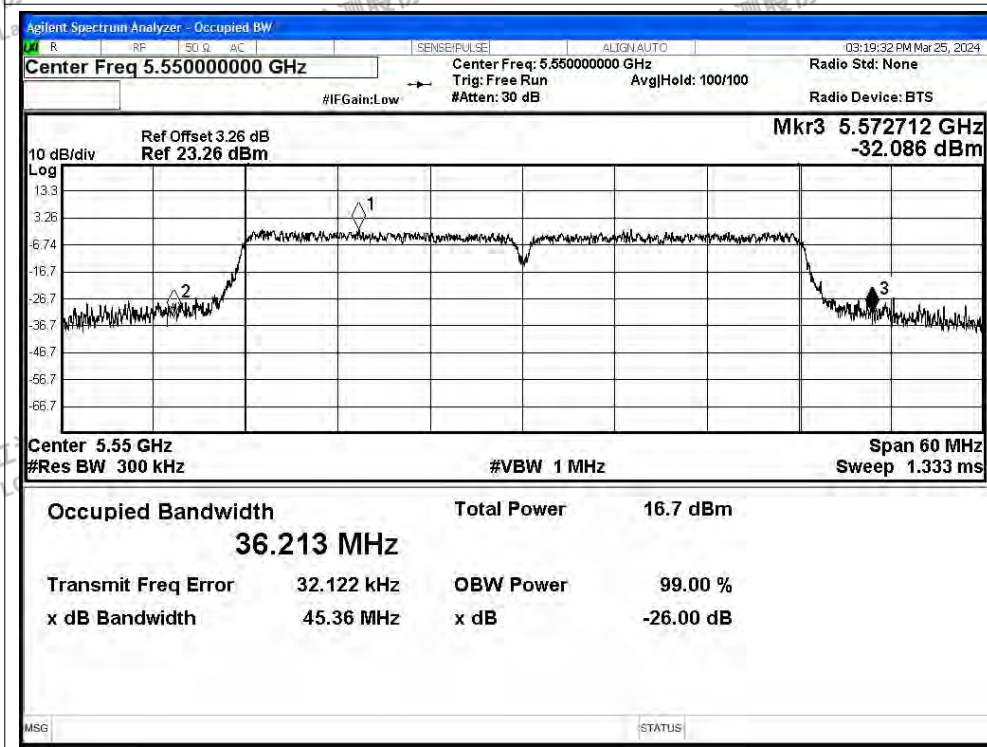
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-26dB Bandwidth NVNT n40 5510MHz Ant1



-26dB Bandwidth NVNT n40 5550MHz Ant1



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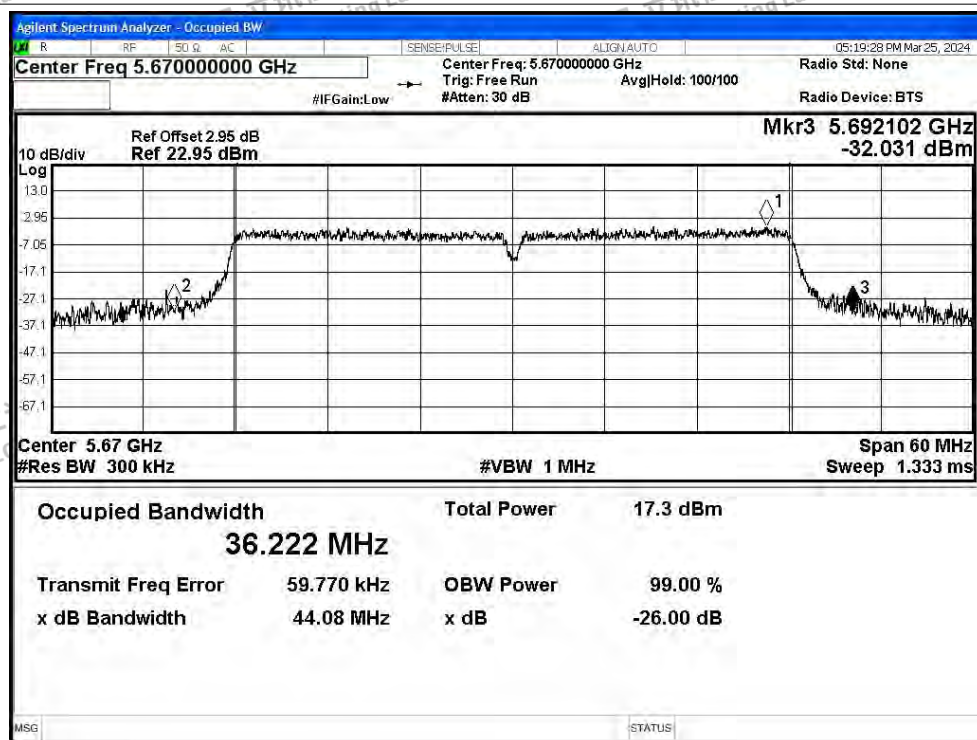
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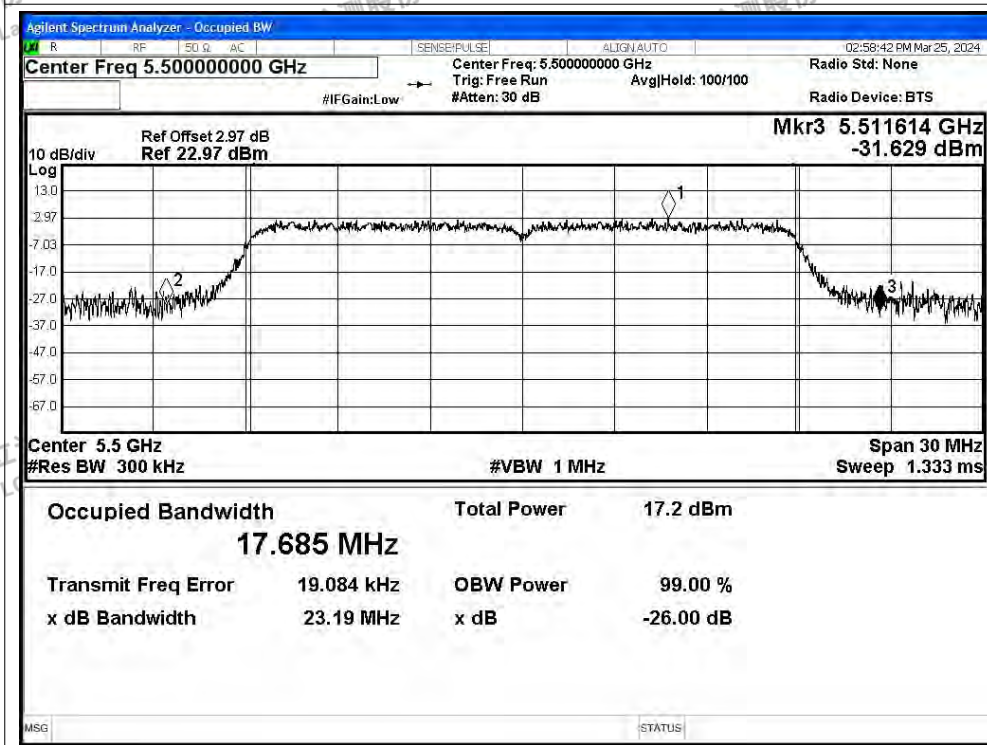
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-26dB Bandwidth NVNT n40 5670MHz Ant1



-26dB Bandwidth NVNT ac20 5500MHz Ant1



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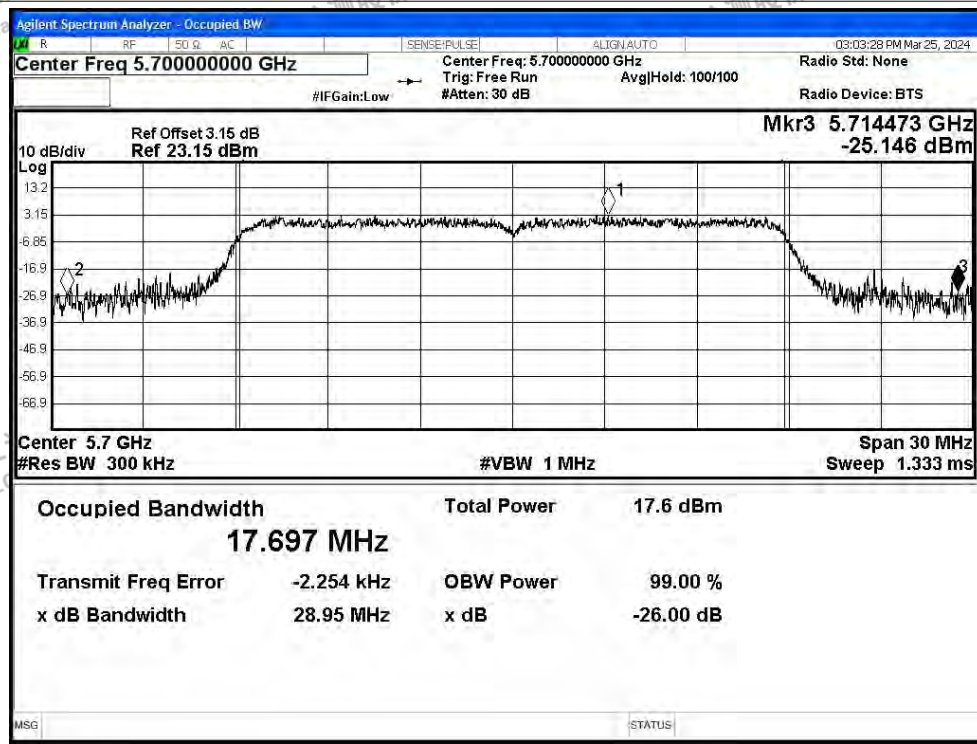
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-26dB Bandwidth NVNT ac20 5580MHz Ant1



-26dB Bandwidth NVNT ac20 5700MHz Ant1



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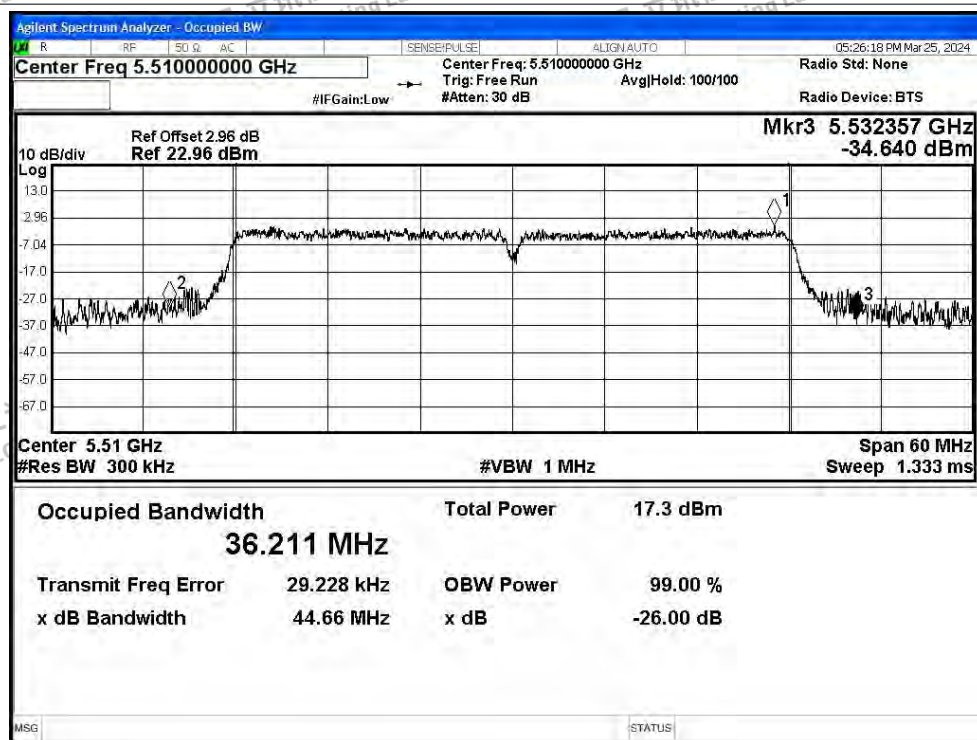
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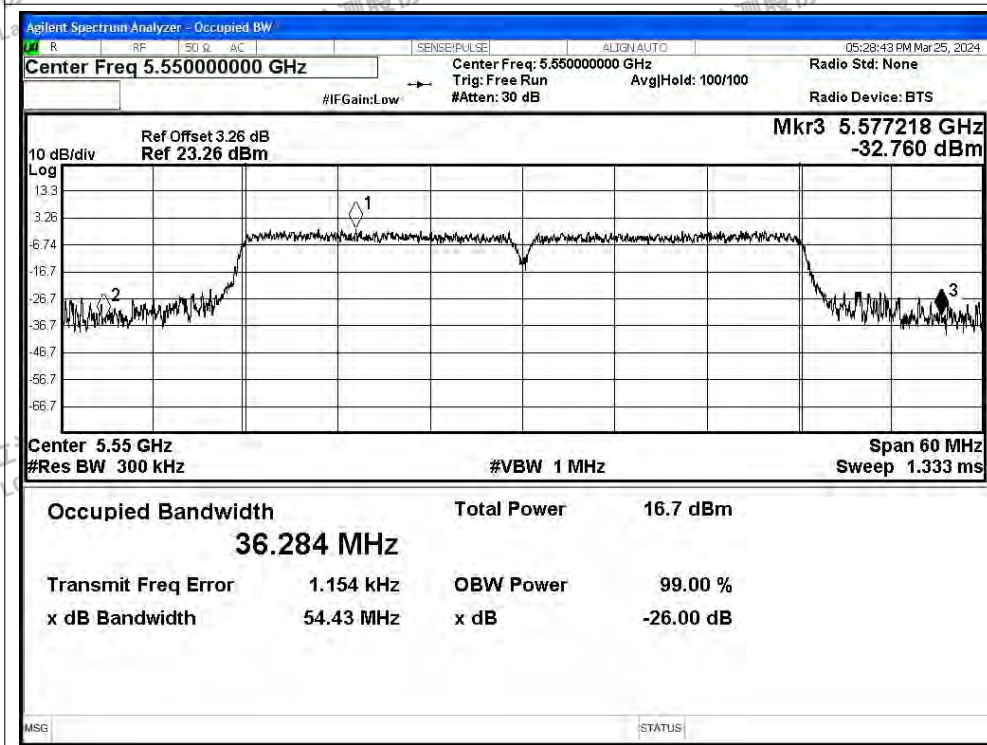
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-26dB Bandwidth NVNT ac40 5510MHz Ant1



-26dB Bandwidth NVNT ac40 5550MHz Ant1



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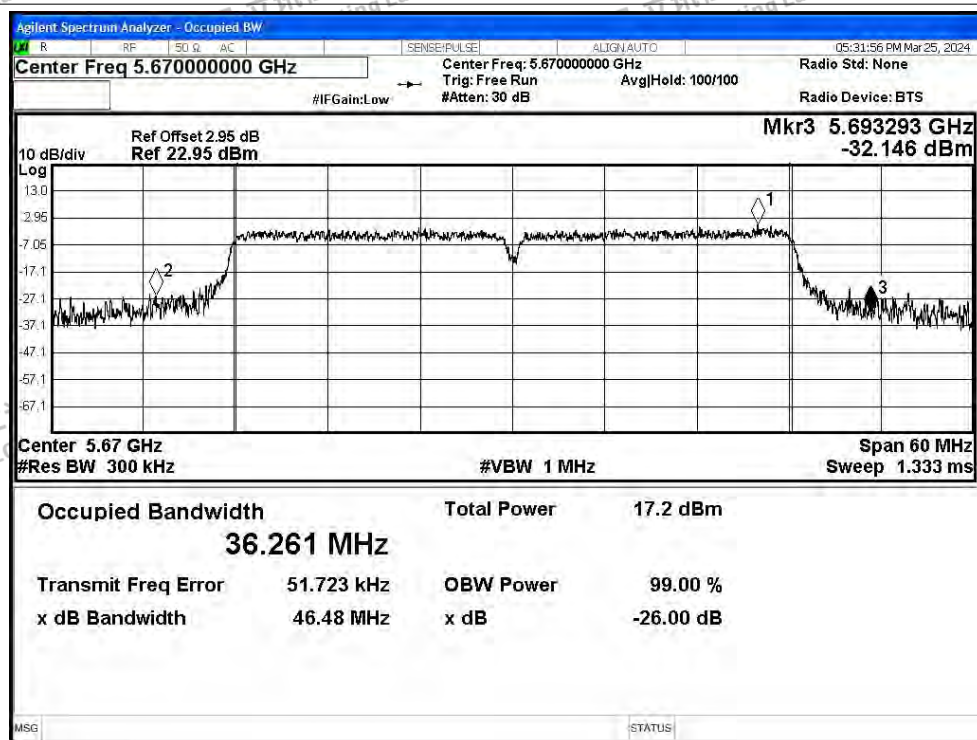
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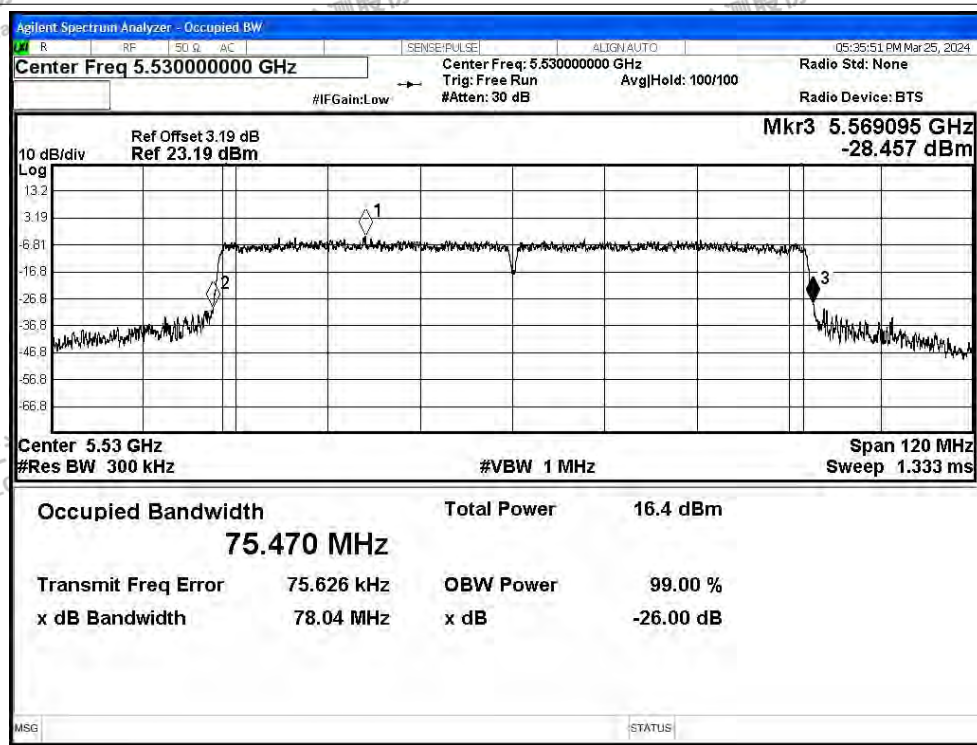
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-26dB Bandwidth NVNT ac40 5670MHz Ant1



-26dB Bandwidth NVNT ac80 5530MHz Ant1



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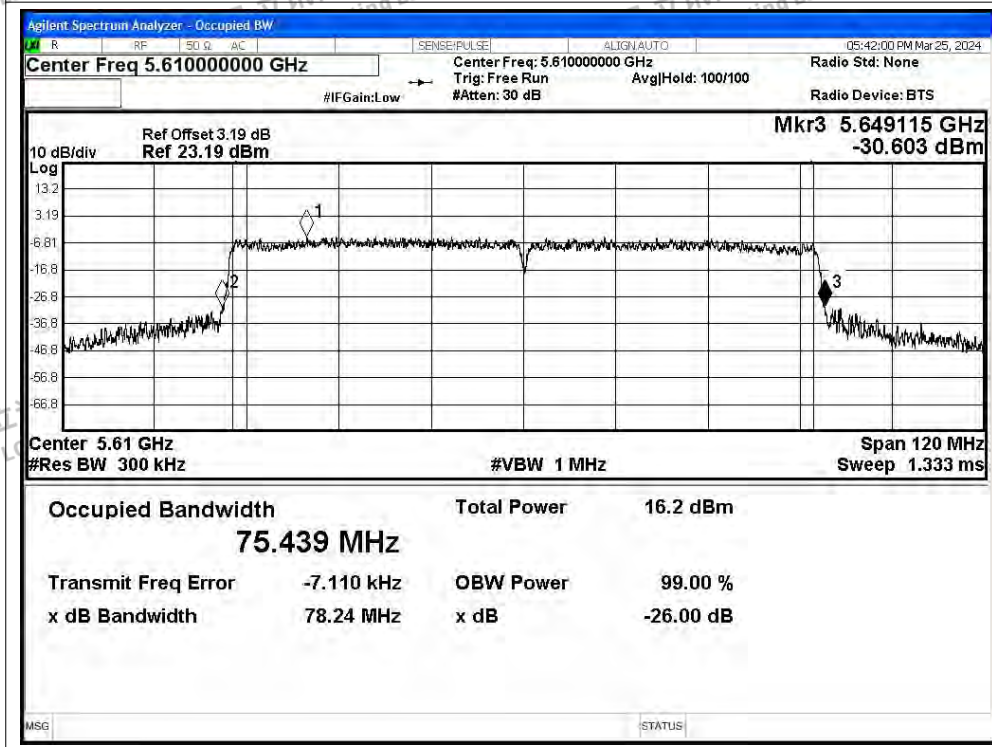
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-26dB Bandwidth NVNT ac80 5610MHz Ant1





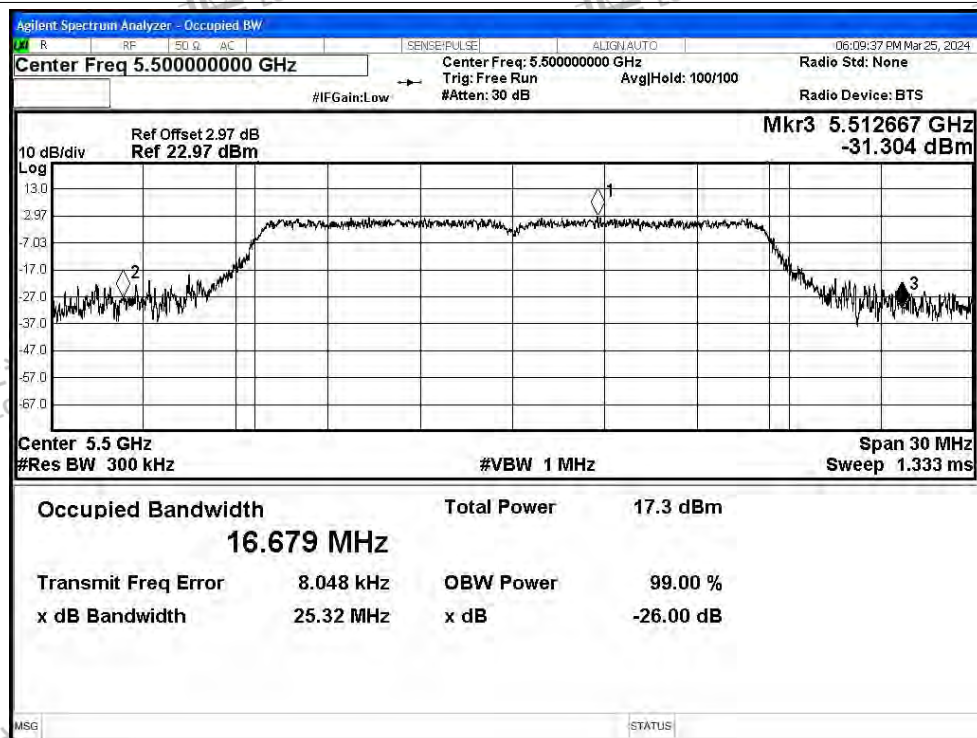
| Condition | Mode | Frequency (MHz) | Antenna | -26 dB Bandwidth (MHz) | Limit -26 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|------------------------|------------------------------|---------|
| NVNT      | a    | 5500            | Ant2    | 25.318                 | ---                          | Pass    |
| NVNT      | a    | 5580            | Ant2    | 28.308                 | ---                          | Pass    |
| NVNT      | a    | 5700            | Ant2    | 25.782                 | ---                          | Pass    |
| NVNT      | n20  | 5500            | Ant2    | 26.658                 | ---                          | Pass    |
| NVNT      | n20  | 5580            | Ant2    | 29.236                 | ---                          | Pass    |
| NVNT      | n20  | 5700            | Ant2    | 29.008                 | ---                          | Pass    |
| NVNT      | n40  | 5510            | Ant2    | 44.837                 | ---                          | Pass    |
| NVNT      | n40  | 5550            | Ant2    | 43.796                 | ---                          | Pass    |
| NVNT      | n40  | 5670            | Ant2    | 46.591                 | ---                          | Pass    |
| NVNT      | ac20 | 5500            | Ant2    | 26.224                 | ---                          | Pass    |
| NVNT      | ac20 | 5580            | Ant2    | 26.528                 | ---                          | Pass    |
| NVNT      | ac20 | 5700            | Ant2    | 29.194                 | ---                          | Pass    |
| NVNT      | ac40 | 5510            | Ant2    | 53.058                 | ---                          | Pass    |
| NVNT      | ac40 | 5550            | Ant2    | 49.261                 | ---                          | Pass    |
| NVNT      | ac40 | 5670            | Ant2    | 54.669                 | ---                          | Pass    |
| NVNT      | ac80 | 5530            | Ant2    | 78.028                 | ---                          | Pass    |
| NVNT      | ac80 | 5610            | Ant2    | 78.228                 | ---                          | Pass    |





## Test Graphs

-26dB Bandwidth NVNT a 5500MHz Ant2



-26dB Bandwidth NVNT a 5580MHz Ant2



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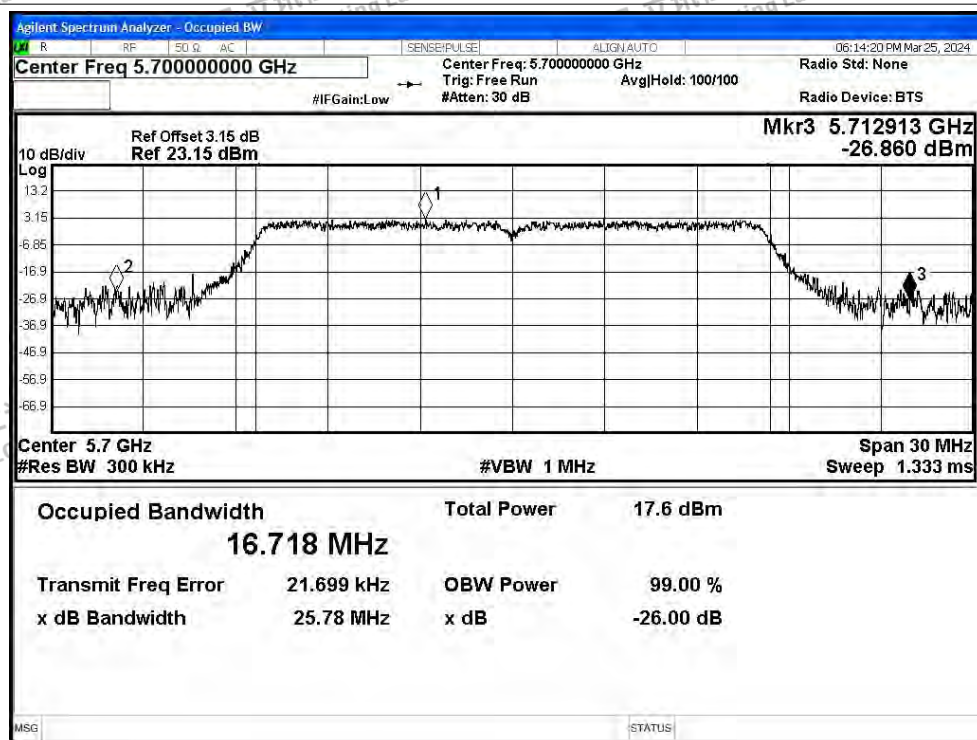
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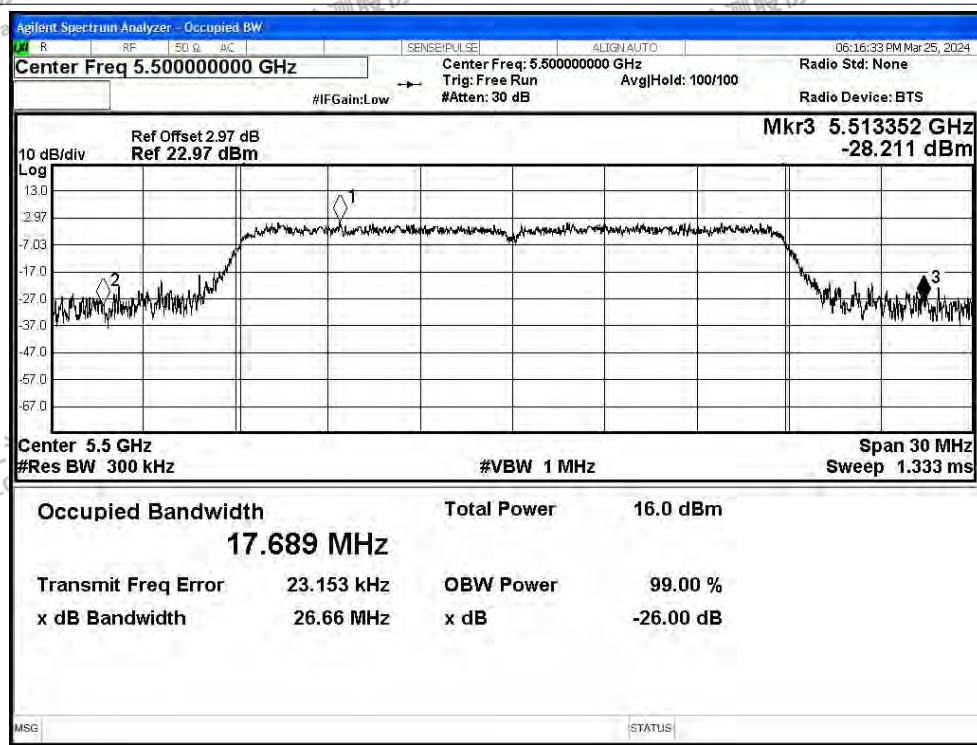
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-26dB Bandwidth NVNT a 5700MHz Ant2



-26dB Bandwidth NVNT n20 5500MHz Ant2



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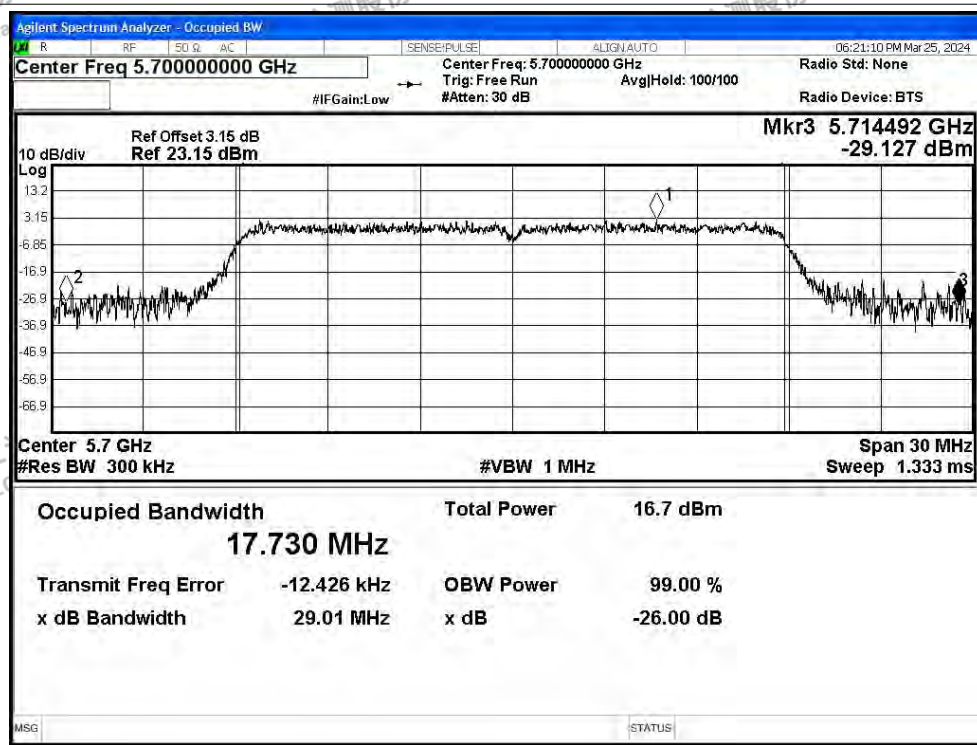
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-26dB Bandwidth NVNT n20 5580MHz Ant2



-26dB Bandwidth NVNT n20 5700MHz Ant2



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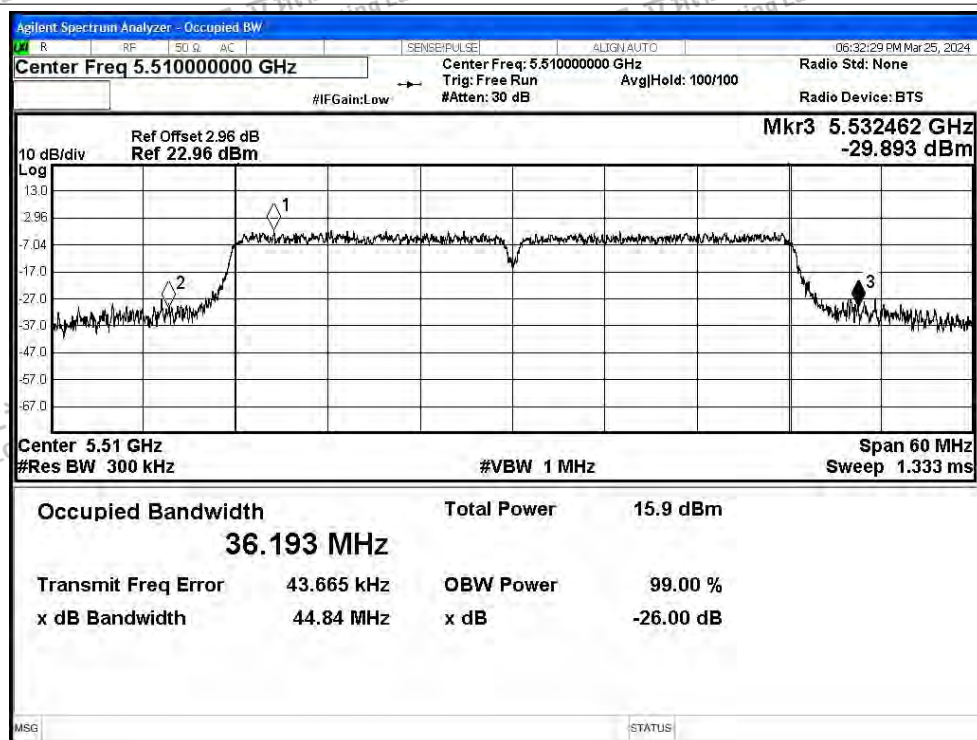
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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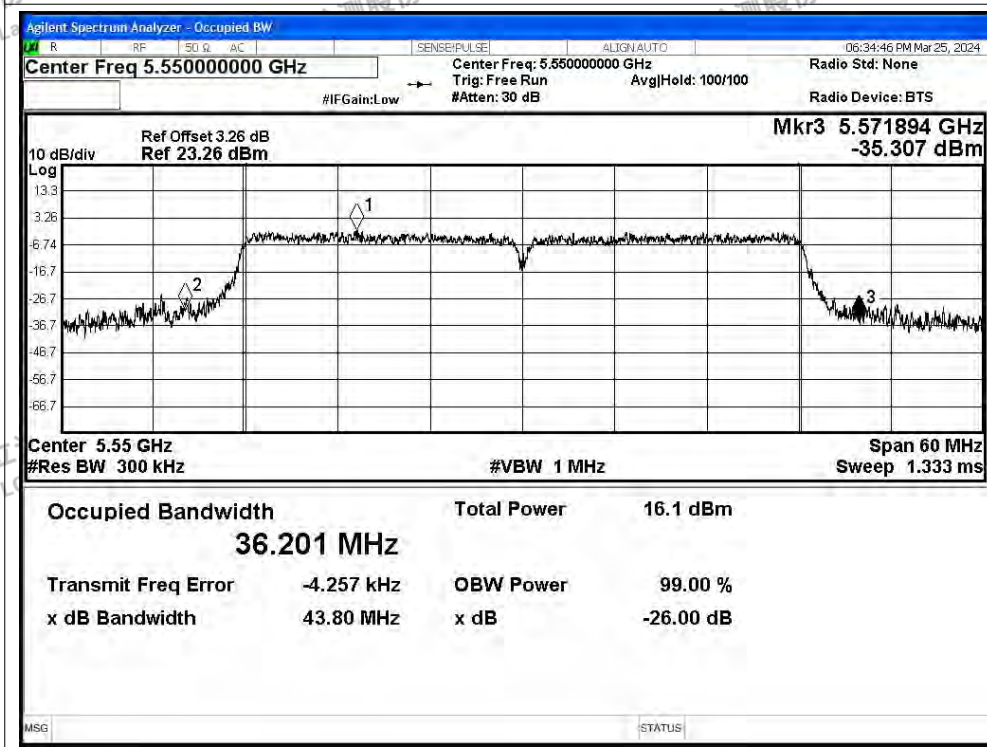
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-26dB Bandwidth NVNT n40 5510MHz Ant2



-26dB Bandwidth NVNT n40 5550MHz Ant2



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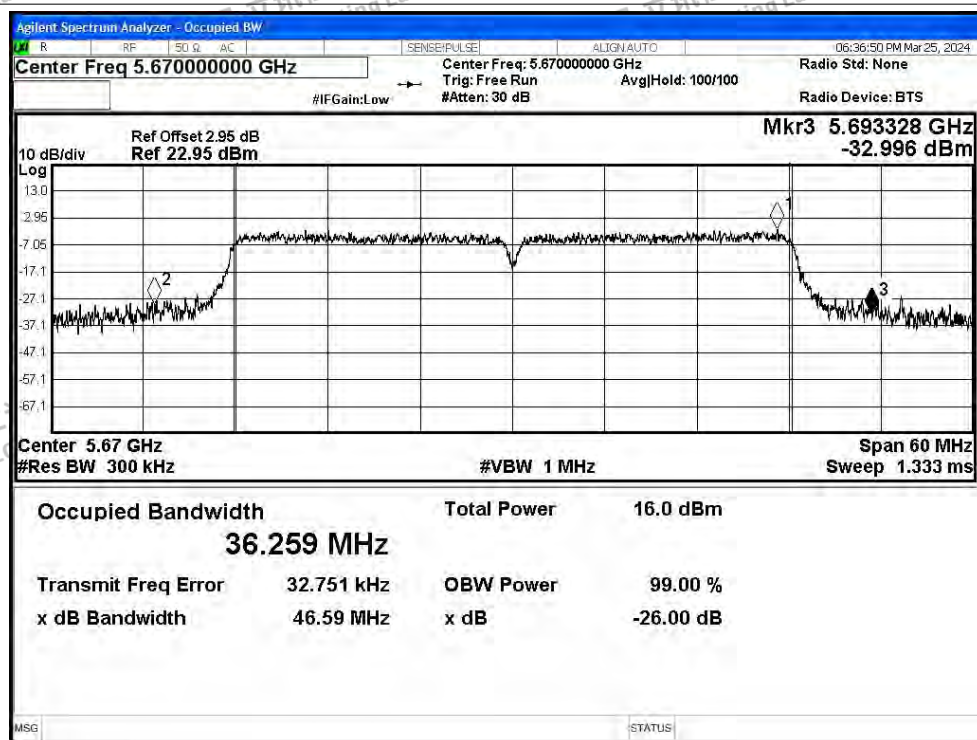
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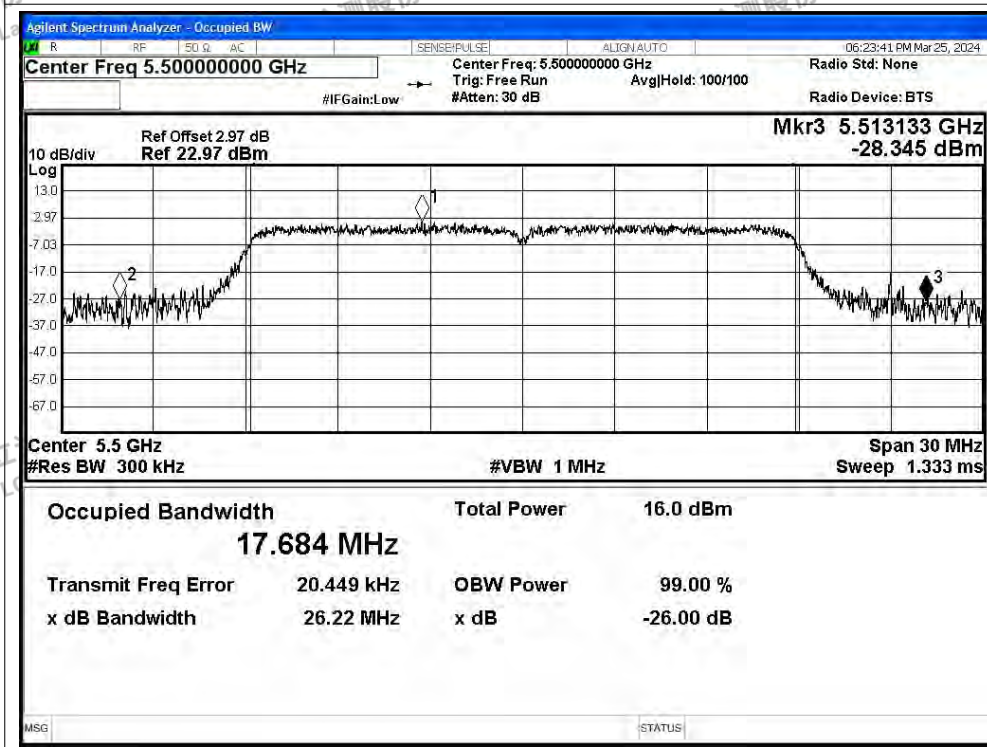
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-26dB Bandwidth NVNT n40 5670MHz Ant2



-26dB Bandwidth NVNT ac20 5500MHz Ant2



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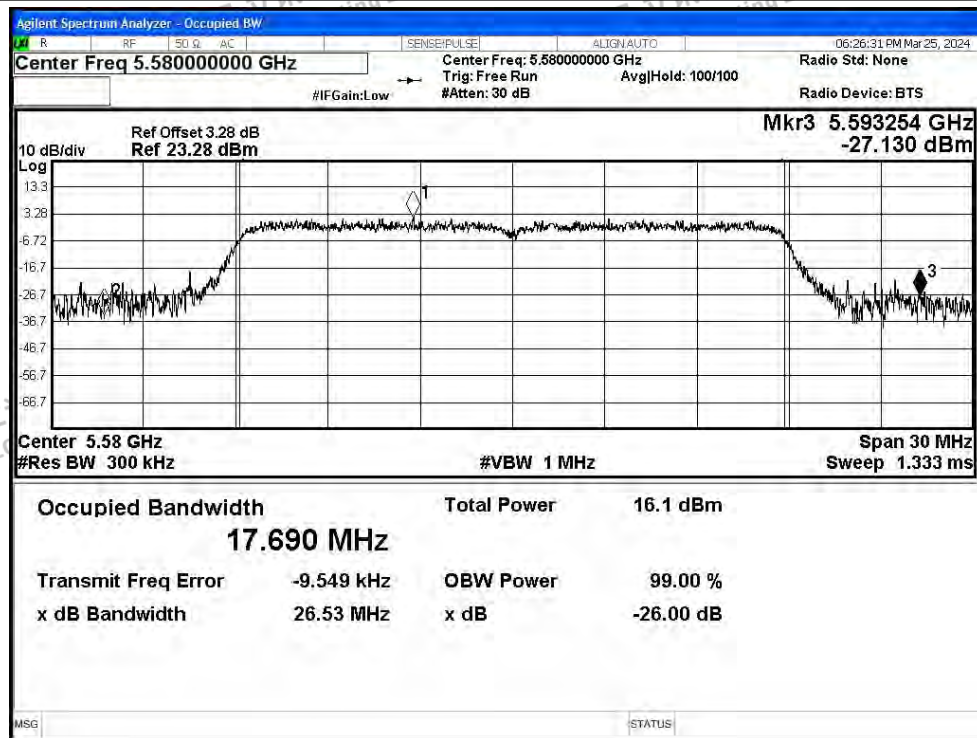
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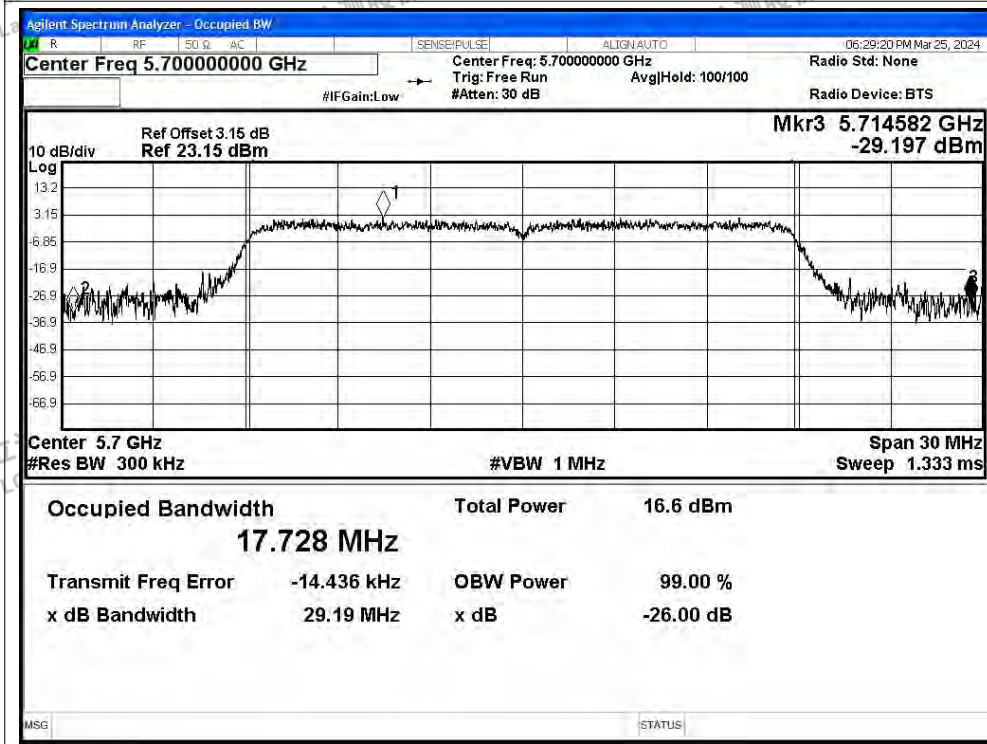
Scan code to check authenticity



-26dB Bandwidth NVNT ac20 5580MHz Ant2



-26dB Bandwidth NVNT ac20 5700MHz Ant2



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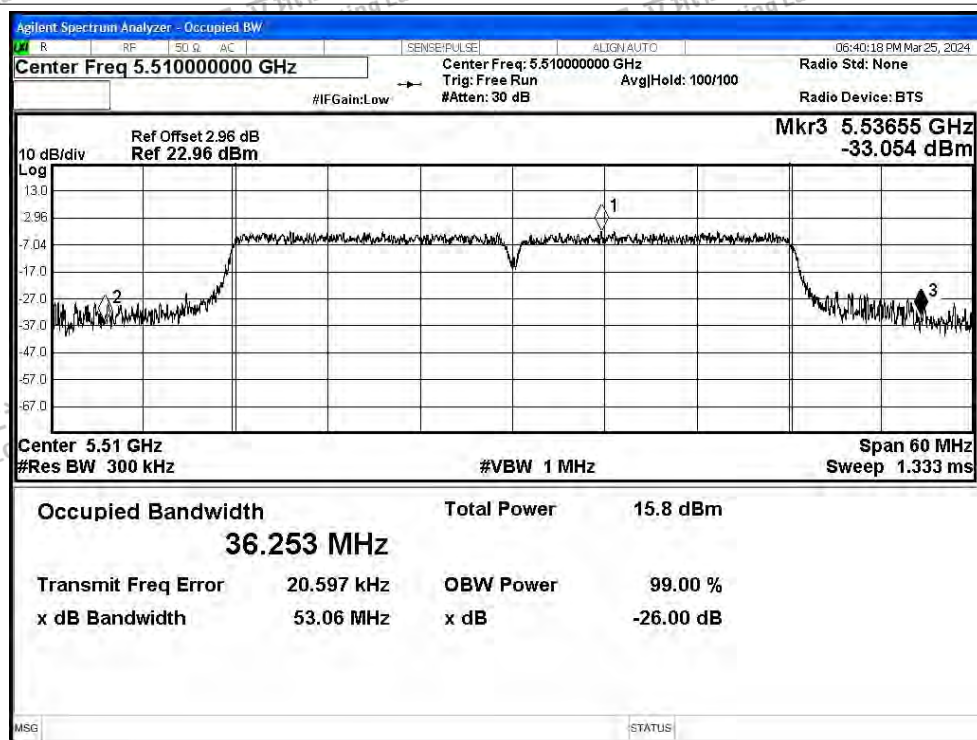
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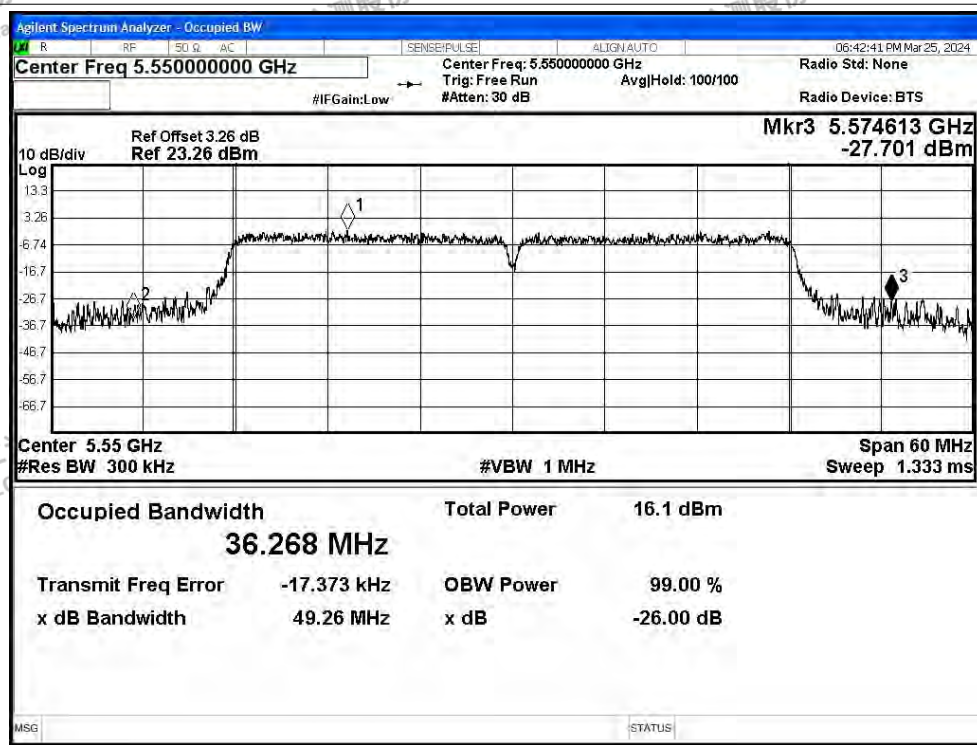
Scan code to check authenticity



-26dB Bandwidth NVNT ac40 5510MHz Ant2



-26dB Bandwidth NVNT ac40 5550MHz Ant2



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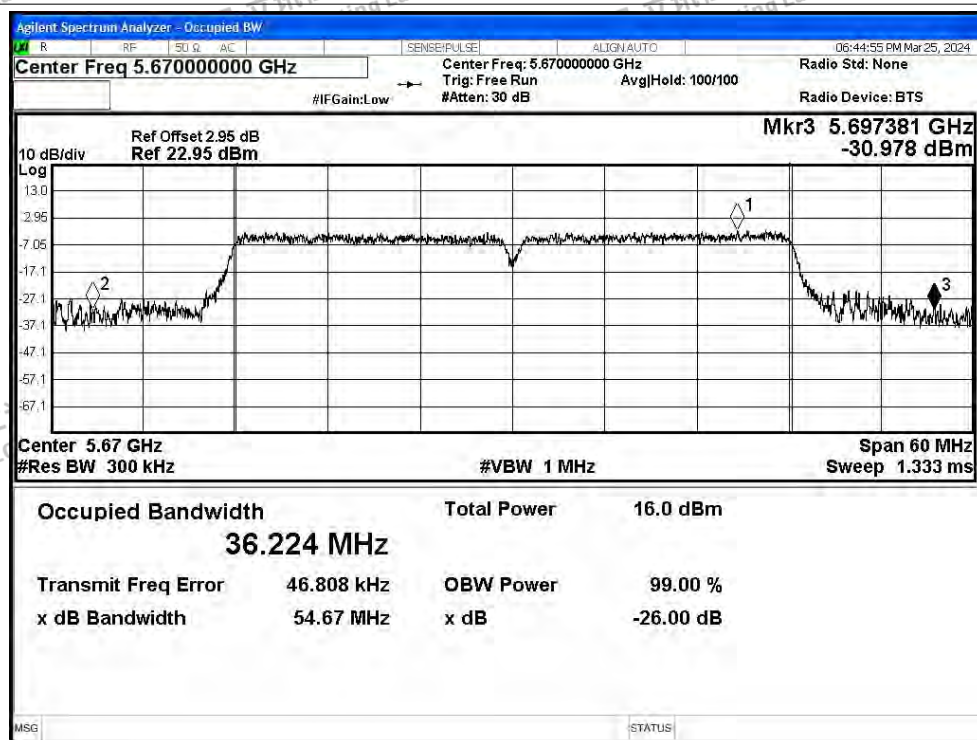
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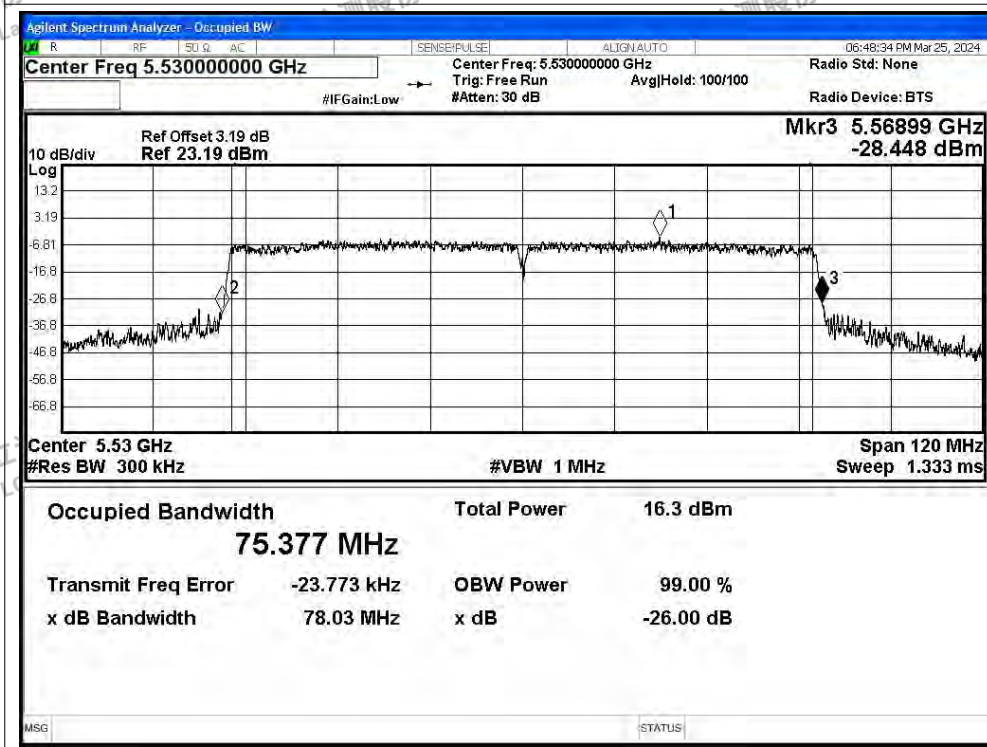
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-26dB Bandwidth NVNT ac40 5670MHz Ant2



-26dB Bandwidth NVNT ac80 5530MHz Ant2



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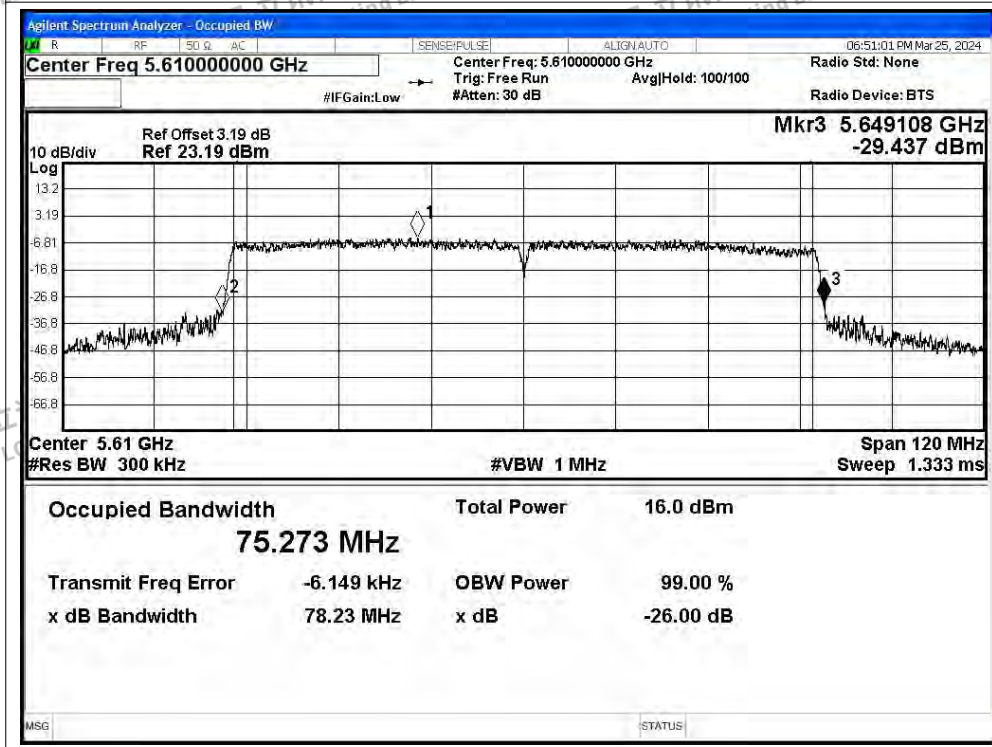
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-26dB Bandwidth NVNT ac80 5610MHz Ant2





## F.2 Maximum Conducted Output Power

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | a    | 5500            | Ant1    | 12.35                 | 0.6              | 12.95             | 24          | Pass    |
| NVNT      | a    | 5580            | Ant1    | 12.75                 | 0.21             | 12.96             | 24          | Pass    |
| NVNT      | a    | 5700            | Ant1    | 12.55                 | 0.57             | 13.12             | 24          | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 11.28                 | 1.04             | 12.32             | 24          | Pass    |
| NVNT      | n20  | 5580            | Ant1    | 11.57                 | 0.66             | 12.23             | 24          | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 11.83                 | 0.7              | 12.53             | 24          | Pass    |
| NVNT      | n40  | 5510            | Ant1    | 10.17                 | 0.97             | 11.14             | 24          | Pass    |
| NVNT      | n40  | 5550            | Ant1    | 10.48                 | 1.24             | 11.72             | 24          | Pass    |
| NVNT      | n40  | 5670            | Ant1    | 10.26                 | 0.97             | 11.23             | 24          | Pass    |
| NVNT      | ac20 | 5500            | Ant1    | 11.08                 | 0.66             | 11.74             | 24          | Pass    |
| NVNT      | ac20 | 5580            | Ant1    | 11.61                 | 0.69             | 12.3              | 24          | Pass    |
| NVNT      | ac20 | 5700            | Ant1    | 11.84                 | 0.69             | 12.53             | 24          | Pass    |
| NVNT      | ac40 | 5510            | Ant1    | 10.41                 | 1                | 11.41             | 24          | Pass    |
| NVNT      | ac40 | 5550            | Ant1    | 10.39                 | 0.93             | 11.32             | 24          | Pass    |
| NVNT      | ac40 | 5670            | Ant1    | 10.8                  | 1.27             | 12.07             | 24          | Pass    |
| NVNT      | ac80 | 5530            | Ant1    | 9.16                  | 2.03             | 11.19             | 24          | Pass    |
| NVNT      | ac80 | 5610            | Ant1    | 8.97                  | 1.86             | 10.83             | 24          | Pass    |

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | a    | 5500            | Ant2    | 11.34                 | 0.57             | 11.91             | 24          | Pass    |
| NVNT      | a    | 5580            | Ant2    | 11.23                 | 0.72             | 11.95             | 24          | Pass    |
| NVNT      | a    | 5700            | Ant2    | 11.58                 | 0.63             | 12.21             | 24          | Pass    |
| NVNT      | n20  | 5500            | Ant2    | 10.37                 | 0.16             | 10.53             | 24          | Pass    |
| NVNT      | n20  | 5580            | Ant2    | 10.52                 | 0.16             | 10.68             | 24          | Pass    |
| NVNT      | n20  | 5700            | Ant2    | 10.68                 | 0.7              | 11.38             | 24          | Pass    |
| NVNT      | n40  | 5510            | Ant2    | 9.27                  | 0.25             | 9.52              | 24          | Pass    |
| NVNT      | n40  | 5550            | Ant2    | 9.77                  | 0.97             | 10.74             | 24          | Pass    |
| NVNT      | n40  | 5670            | Ant2    | 9.54                  | 0.97             | 10.51             | 24          | Pass    |
| NVNT      | ac20 | 5500            | Ant2    | 10.04                 | 0.69             | 10.73             | 24          | Pass    |
| NVNT      | ac20 | 5580            | Ant2    | 10.02                 | 0.69             | 10.71             | 24          | Pass    |
| NVNT      | ac20 | 5700            | Ant2    | 10.69                 | 0.65             | 11.34             | 24          | Pass    |
| NVNT      | ac40 | 5510            | Ant2    | 9.52                  | 0.96             | 10.48             | 24          | Pass    |
| NVNT      | ac40 | 5550            | Ant2    | 9.89                  | 1                | 10.89             | 24          | Pass    |
| NVNT      | ac40 | 5670            | Ant2    | 9.67                  | 0.88             | 10.55             | 24          | Pass    |
| NVNT      | ac80 | 5530            | Ant2    | 8.47                  | 1.66             | 10.13             | 24          | Pass    |
| NVNT      | ac80 | 5610            | Ant2    | 8.7                   | 2.14             | 10.84             | 24          | Pass    |



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MIMO

| Condition | Mode | Frequency (MHz) | Total Power (dBm) |       |           | Limit (dBm) | Verdict |
|-----------|------|-----------------|-------------------|-------|-----------|-------------|---------|
|           |      |                 | Ant1              | Ant2  | Ant1+Ant2 |             |         |
| NVNT      | n20  | 5500            | 12.32             | 10.53 | 14.53     | 23.88       | Pass    |
| NVNT      | n20  | 5580            | 12.23             | 10.68 | 14.53     | 23.88       | Pass    |
| NVNT      | n20  | 5700            | 12.53             | 11.38 | 15.00     | 23.88       | Pass    |
| NVNT      | n40  | 5510            | 11.14             | 9.52  | 13.42     | 23.88       | Pass    |
| NVNT      | n40  | 5550            | 11.72             | 10.74 | 14.27     | 23.88       | Pass    |
| NVNT      | n40  | 5670            | 11.23             | 10.51 | 13.90     | 23.88       | Pass    |
| NVNT      | ac20 | 5500            | 11.74             | 10.73 | 14.27     | 23.88       | Pass    |
| NVNT      | ac20 | 5580            | 12.3              | 10.71 | 14.59     | 23.88       | Pass    |
| NVNT      | ac20 | 5700            | 12.53             | 11.34 | 14.99     | 23.88       | Pass    |
| NVNT      | ac40 | 5510            | 11.41             | 10.48 | 13.98     | 23.88       | Pass    |
| NVNT      | ac40 | 5550            | 11.32             | 10.89 | 14.12     | 23.88       | Pass    |
| NVNT      | ac40 | 5670            | 12.07             | 10.55 | 14.39     | 23.88       | Pass    |
| NVNT      | ac80 | 5530            | 11.19             | 10.13 | 13.70     | 23.88       | Pass    |
| NVNT      | ac80 | 5610            | 10.83             | 10.84 | 13.85     | 23.88       | Pass    |



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### F.3 Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/MHz) | Duty Factor (dB) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-----------|------|-----------------|---------|-------------------------|------------------|---------------------|-----------------|---------|
| NVNT      | a    | 5500            | Ant1    | 1.94                    | 0.6              | 2.54                | 11              | Pass    |
| NVNT      | a    | 5580            | Ant1    | 2.68                    | 0.21             | 2.89                | 11              | Pass    |
| NVNT      | a    | 5700            | Ant1    | 2.19                    | 0.57             | 2.76                | 11              | Pass    |
| NVNT      | n20  | 5500            | Ant1    | 0.73                    | 1.04             | 1.77                | 11              | Pass    |
| NVNT      | n20  | 5580            | Ant1    | 0.87                    | 0.66             | 1.53                | 11              | Pass    |
| NVNT      | n20  | 5700            | Ant1    | 0.6                     | 0.7              | 1.3                 | 11              | Pass    |
| NVNT      | n40  | 5510            | Ant1    | -3.56                   | 0.97             | -2.59               | 11              | Pass    |
| NVNT      | n40  | 5550            | Ant1    | -3.18                   | 1.24             | -1.94               | 11              | Pass    |
| NVNT      | n40  | 5670            | Ant1    | -2.43                   | 0.97             | -1.46               | 11              | Pass    |
| NVNT      | ac20 | 5500            | Ant1    | 0.51                    | 0.66             | 1.17                | 11              | Pass    |
| NVNT      | ac20 | 5580            | Ant1    | 0.78                    | 0.69             | 1.47                | 11              | Pass    |
| NVNT      | ac20 | 5700            | Ant1    | 1.16                    | 0.69             | 1.85                | 11              | Pass    |
| NVNT      | ac40 | 5510            | Ant1    | -2.64                   | 1                | -1.64               | 11              | Pass    |
| NVNT      | ac40 | 5550            | Ant1    | -3.43                   | 0.93             | -2.5                | 11              | Pass    |
| NVNT      | ac40 | 5670            | Ant1    | -3.01                   | 1.27             | -1.74               | 11              | Pass    |
| NVNT      | ac80 | 5530            | Ant1    | -7.87                   | 2.03             | -5.84               | 11              | Pass    |
| NVNT      | ac80 | 5610            | Ant1    | -7.96                   | 1.86             | -6.1                | 11              | Pass    |

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/MHz) | Duty Factor (dB) | Total PSD (dBm/MHz) | Limit (dBm/MHz) | Verdict |
|-----------|------|-----------------|---------|-------------------------|------------------|---------------------|-----------------|---------|
| NVNT      | a    | 5500            | Ant2    | 0.84                    | 0.57             | 1.41                | 11              | Pass    |
| NVNT      | a    | 5580            | Ant2    | 0.63                    | 0.72             | 1.35                | 11              | Pass    |
| NVNT      | a    | 5700            | Ant2    | 1.05                    | 0.63             | 1.68                | 11              | Pass    |
| NVNT      | n20  | 5500            | Ant2    | -0.18                   | 0.16             | -0.02               | 11              | Pass    |
| NVNT      | n20  | 5580            | Ant2    | -0.43                   | 0.16             | -0.27               | 11              | Pass    |
| NVNT      | n20  | 5700            | Ant2    | -0.1                    | 0.7              | 0.6                 | 11              | Pass    |
| NVNT      | n40  | 5510            | Ant2    | -4.32                   | 0.25             | -4.07               | 11              | Pass    |
| NVNT      | n40  | 5550            | Ant2    | -3.99                   | 0.97             | -3.02               | 11              | Pass    |
| NVNT      | n40  | 5670            | Ant2    | -3.66                   | 0.97             | -2.69               | 11              | Pass    |
| NVNT      | ac20 | 5500            | Ant2    | -0.6                    | 0.69             | 0.09                | 11              | Pass    |
| NVNT      | ac20 | 5580            | Ant2    | -0.54                   | 0.69             | 0.15                | 11              | Pass    |
| NVNT      | ac20 | 5700            | Ant2    | 0.22                    | 0.65             | 0.87                | 11              | Pass    |
| NVNT      | ac40 | 5510            | Ant2    | -4.06                   | 0.96             | -3.1                | 11              | Pass    |
| NVNT      | ac40 | 5550            | Ant2    | -3.86                   | 1                | -2.86               | 11              | Pass    |
| NVNT      | ac40 | 5670            | Ant2    | -3.79                   | 0.88             | -2.91               | 11              | Pass    |
| NVNT      | ac80 | 5530            | Ant2    | -7.3                    | 1.66             | -5.64               | 11              | Pass    |
| NVNT      | ac80 | 5610            | Ant2    | -7                      | 2.14             | -4.86               | 11              | Pass    |



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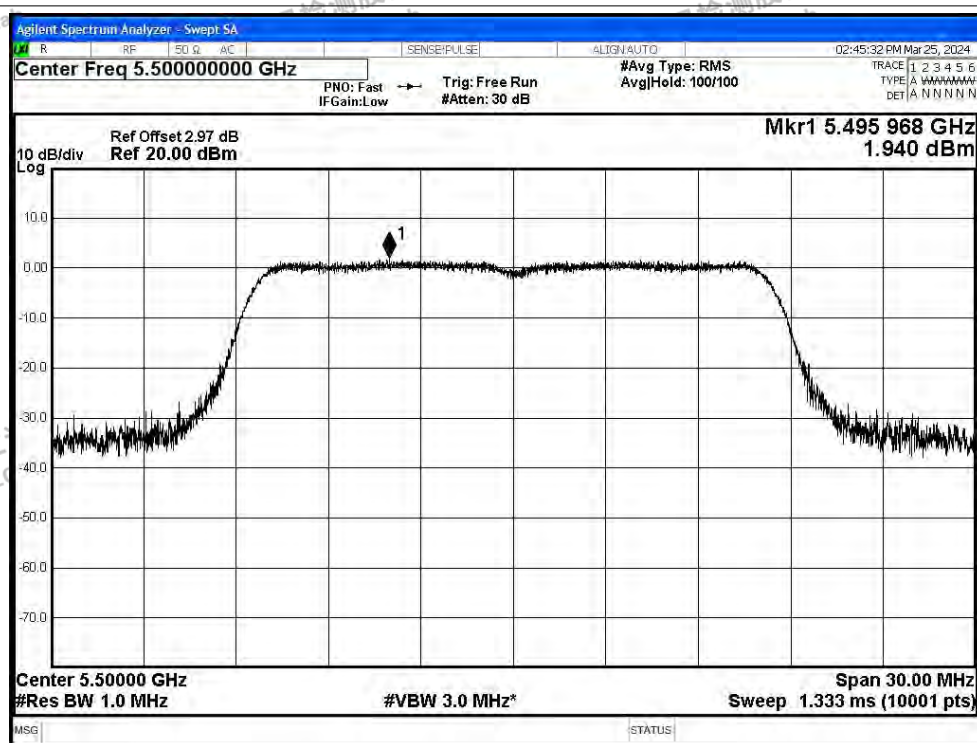


MIMO

| Condition | Mode | Frequency (MHz) | Total PSD (dBm/MHz) |       |           | Limit (dBm/MHz) | Verdict |
|-----------|------|-----------------|---------------------|-------|-----------|-----------------|---------|
|           |      |                 | Ant1                | Ant2  | Ant1+Ant2 |                 |         |
| NVNT      | n20  | 5500            | 1.77                | -0.02 | 3.98      | 10.38           | Pass    |
| NVNT      | n20  | 5580            | 1.53                | -0.27 | 3.73      | 10.38           | Pass    |
| NVNT      | n20  | 5700            | 1.3                 | 0.6   | 3.97      | 10.38           | Pass    |
| NVNT      | n40  | 5510            | -2.59               | -4.07 | -0.26     | 10.38           | Pass    |
| NVNT      | n40  | 5550            | -1.94               | -3.02 | 0.56      | 10.38           | Pass    |
| NVNT      | n40  | 5670            | -1.46               | -2.69 | 0.98      | 10.38           | Pass    |
| NVNT      | ac20 | 5500            | 1.17                | 0.09  | 3.67      | 10.38           | Pass    |
| NVNT      | ac20 | 5580            | 1.47                | 0.15  | 3.87      | 10.38           | Pass    |
| NVNT      | ac20 | 5700            | 1.85                | 0.87  | 4.40      | 10.38           | Pass    |
| NVNT      | ac40 | 5510            | -1.64               | -3.1  | 0.70      | 10.38           | Pass    |
| NVNT      | ac40 | 5550            | -2.5                | -2.86 | 0.33      | 10.38           | Pass    |
| NVNT      | ac40 | 5670            | -1.74               | -2.91 | 0.72      | 10.38           | Pass    |
| NVNT      | ac80 | 5530            | -5.84               | -5.64 | -2.73     | 10.38           | Pass    |
| NVNT      | ac80 | 5610            | -6.1                | -4.86 | -2.43     | 10.38           | Pass    |

Test Graphs

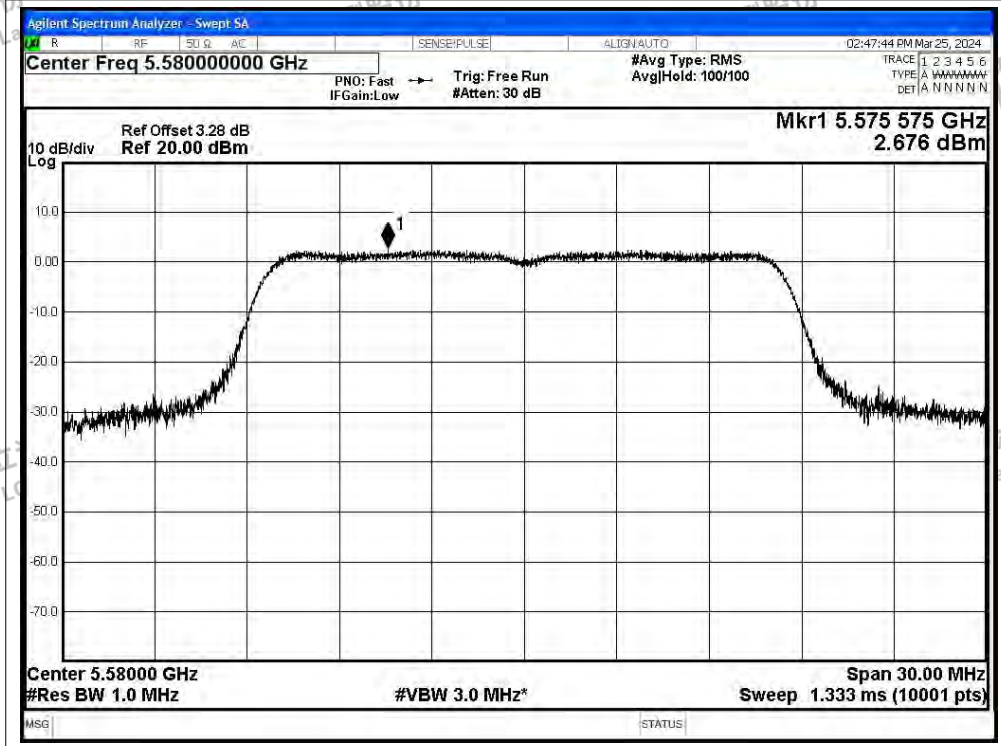
PSD NVNT a 5500MHz Ant1



PSD NVNT a 5580MHz Ant1

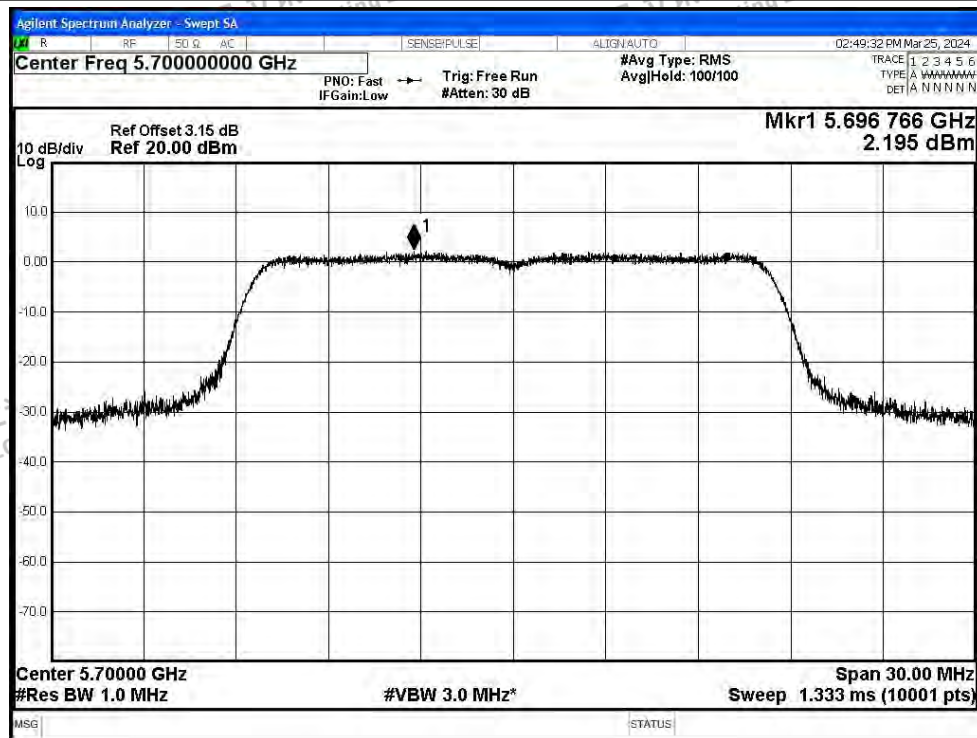


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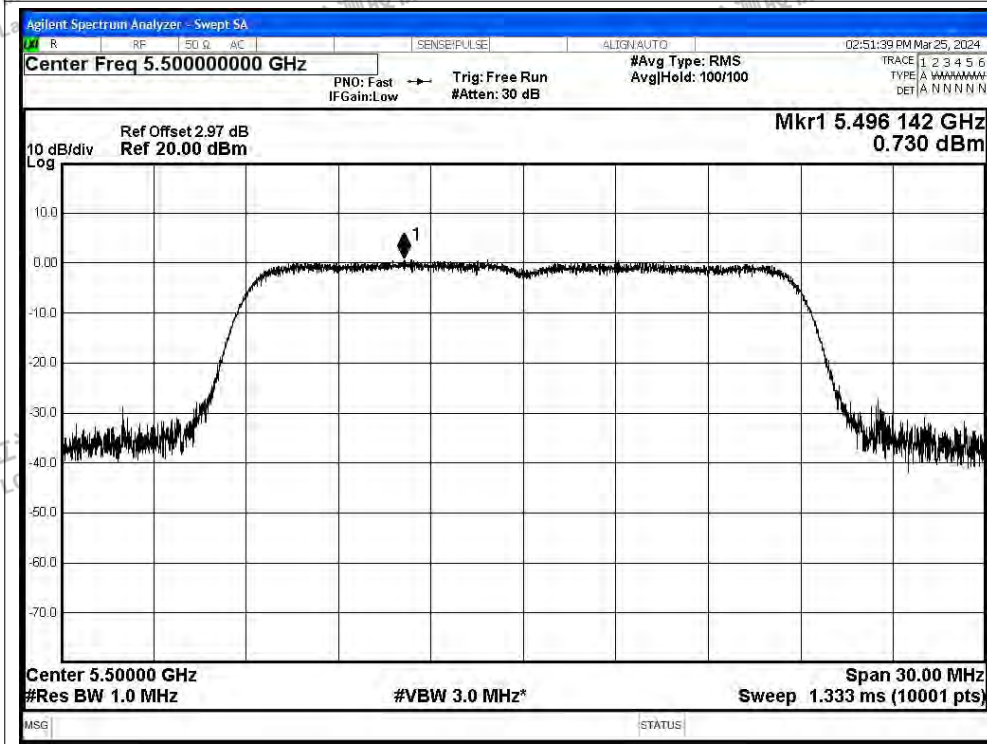




PSD NVNT a 5700MHz Ant1

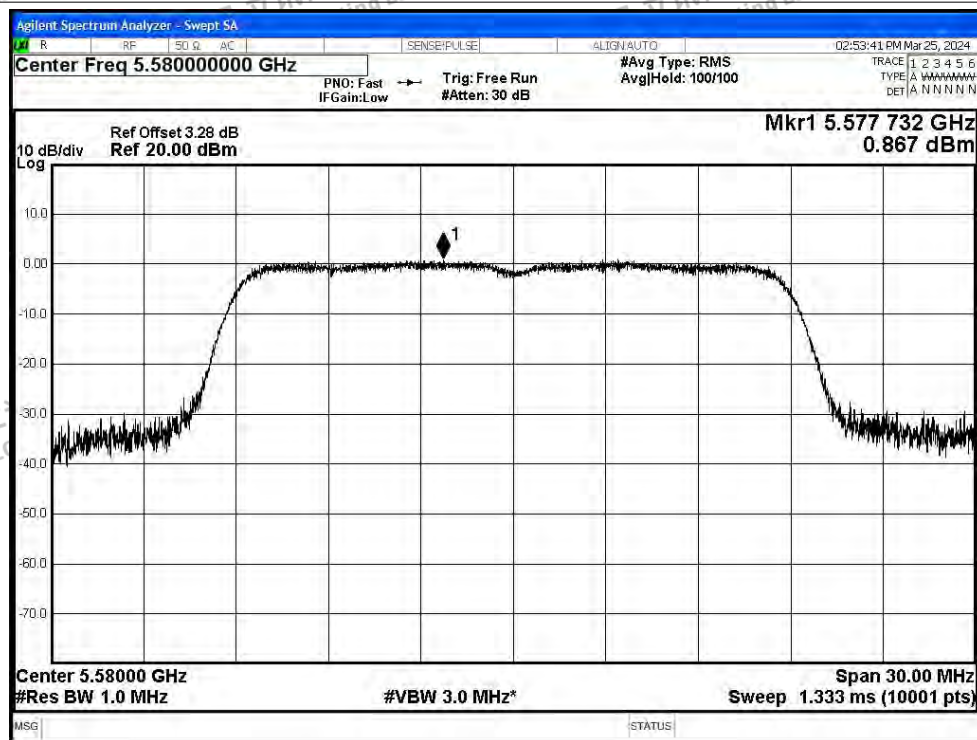


PSD NVNT n20 5500MHz Ant1

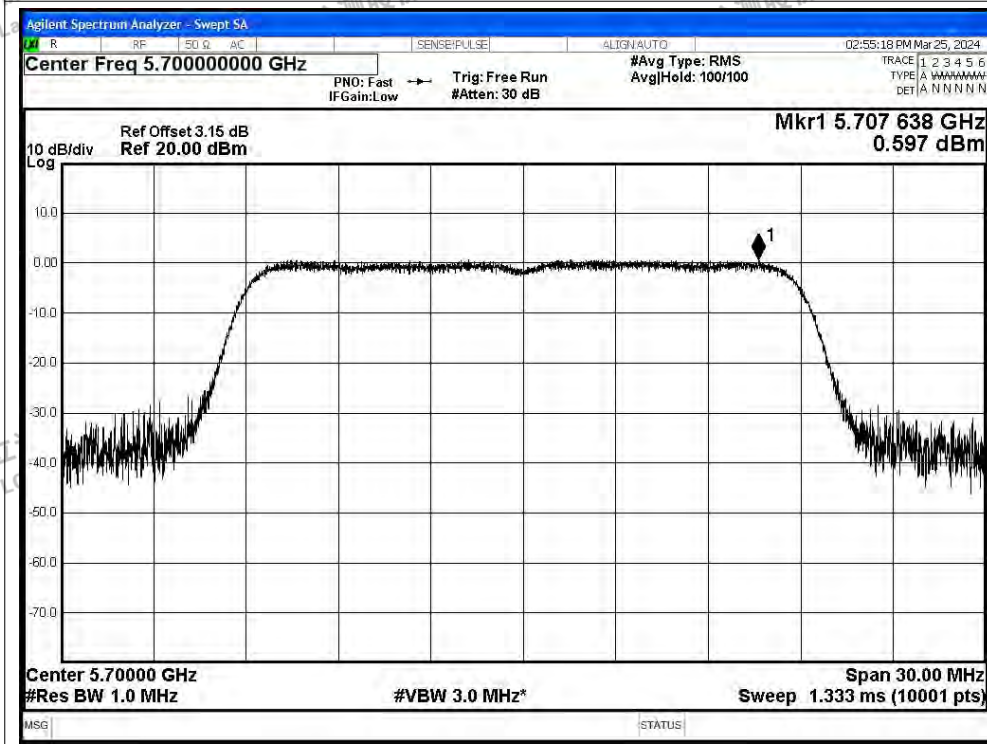




PSD NVNT n20 5580MHz Ant1

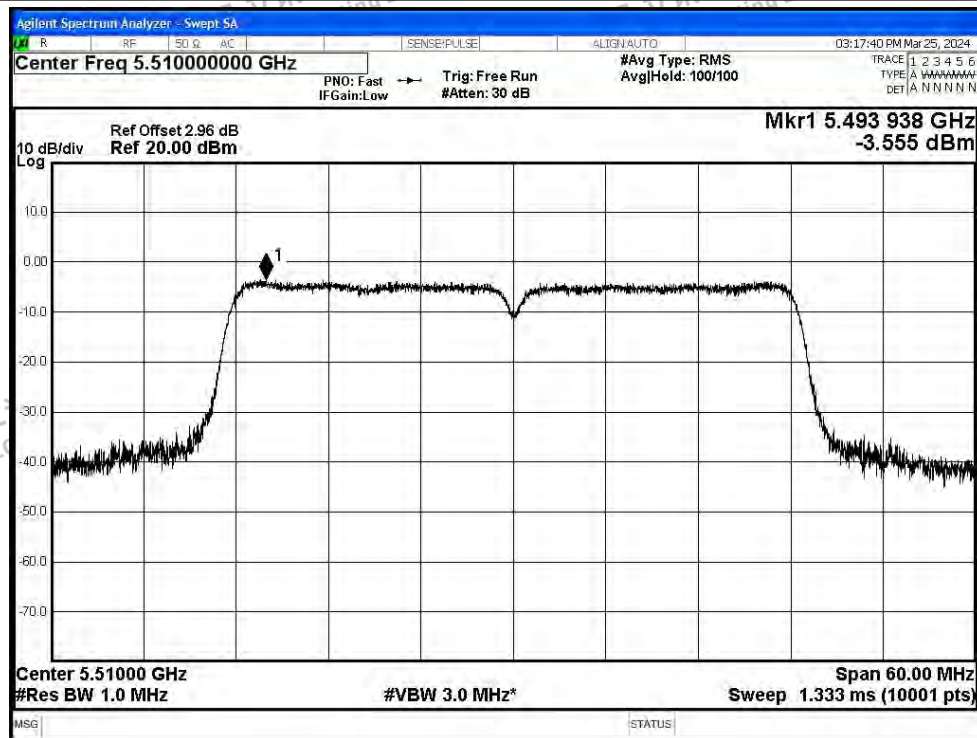


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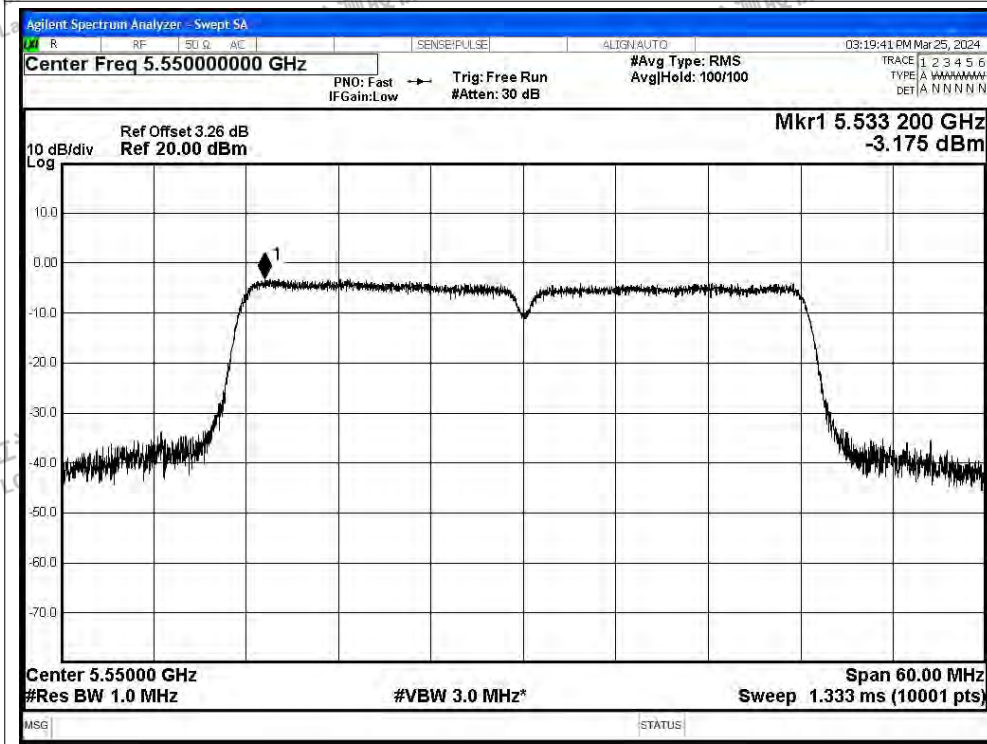




PSD NVNT n40 5510MHz Ant1

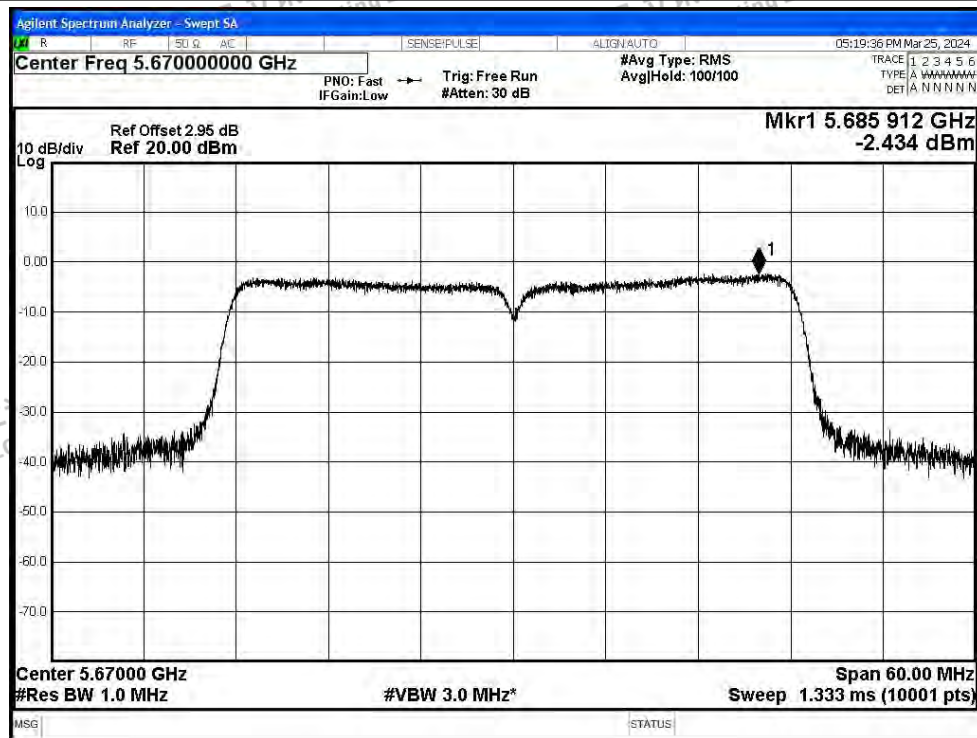


PSD NVNT n40 5550MHz Ant1

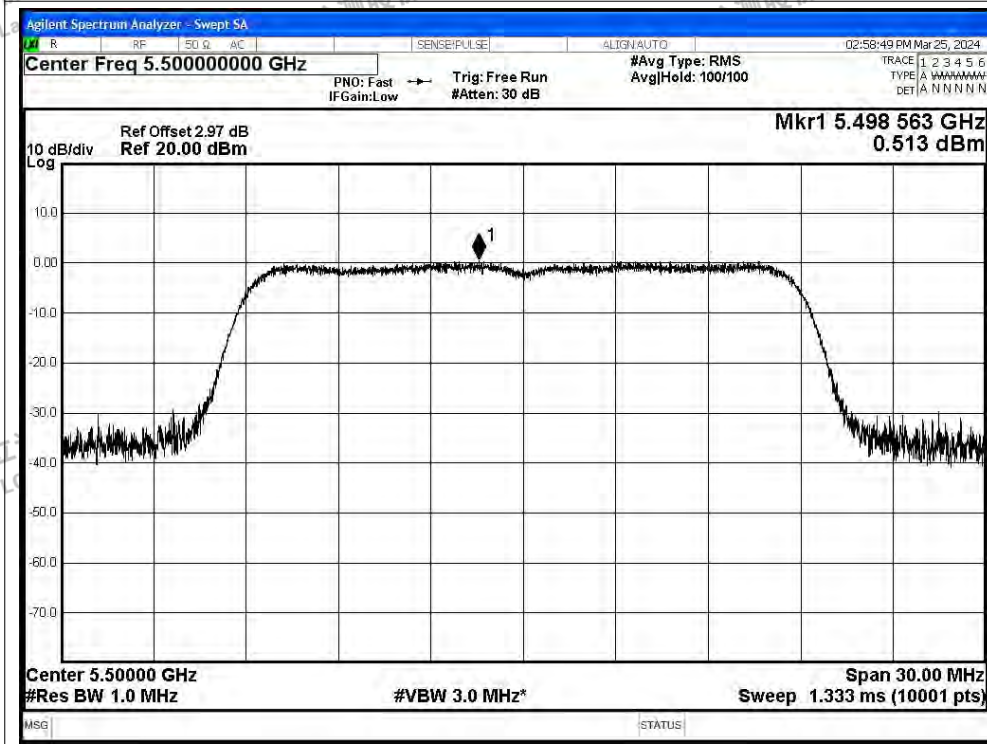




## PSD NVNT n40 5670MHz Ant1

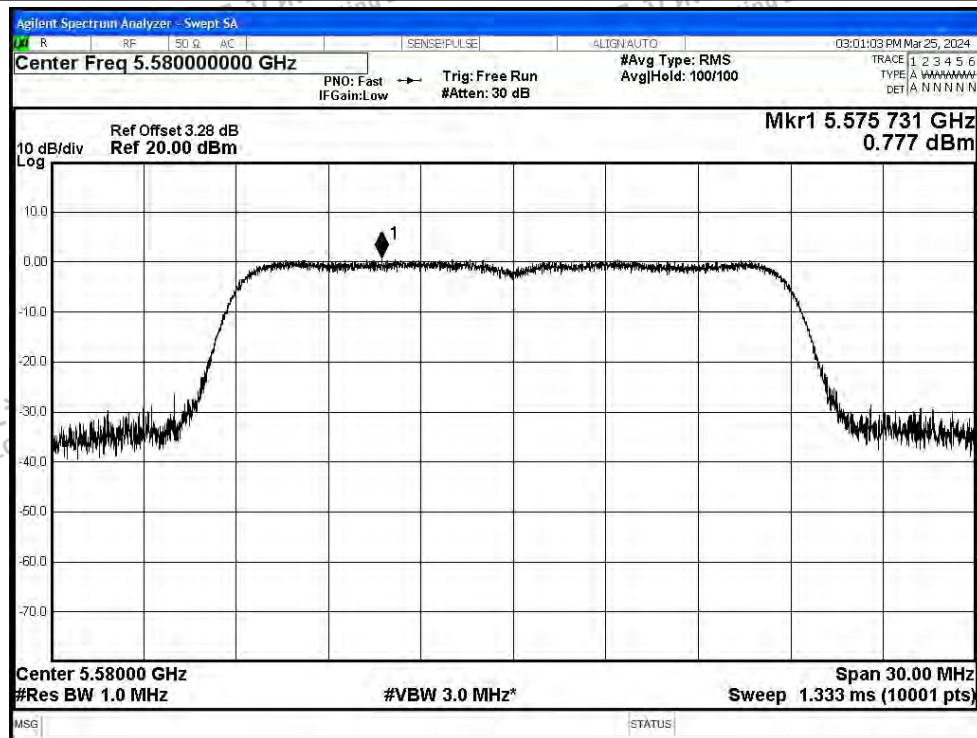


## PSD NVNT ac20 5500MHz Ant1

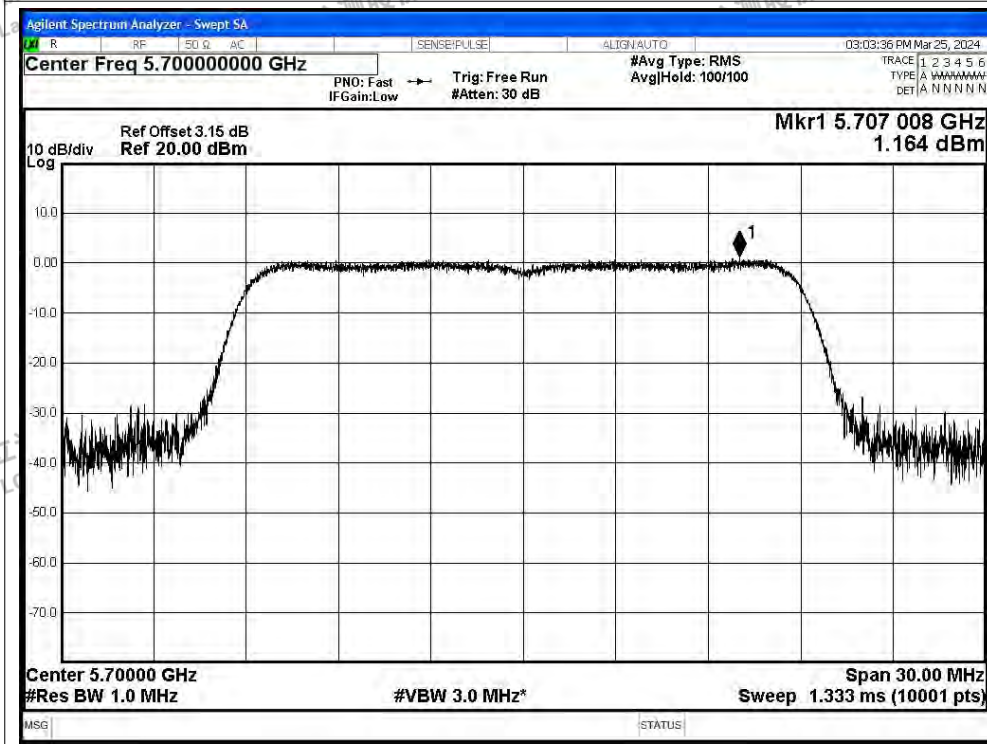




PSD NVNT ac20 5580MHz Ant1

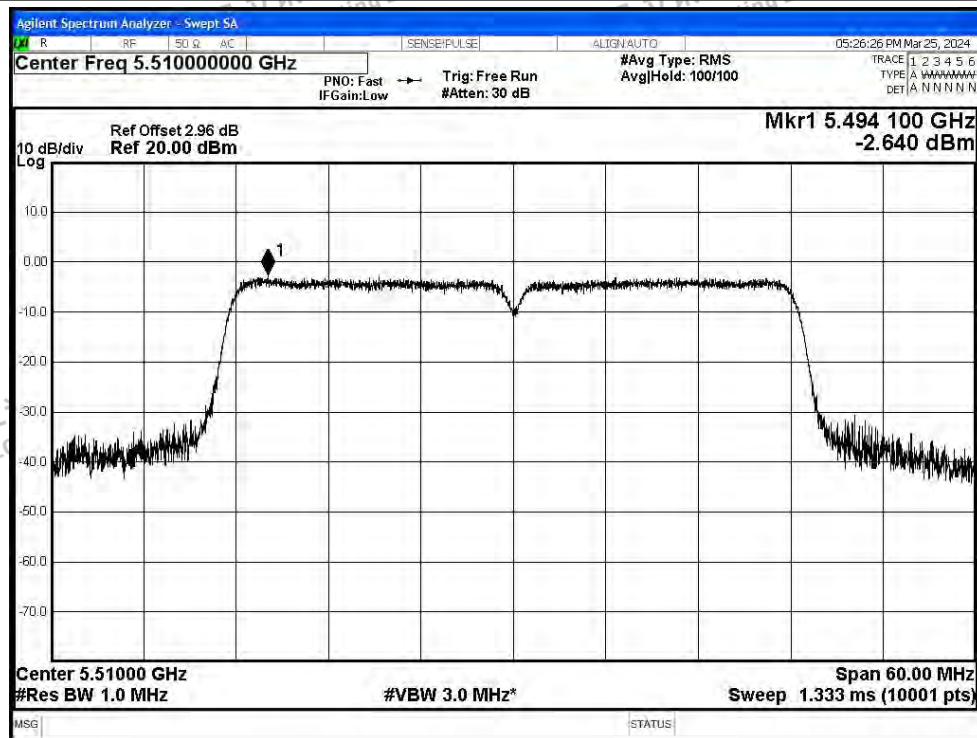


PSD NVNT ac20 5700MHz Ant1

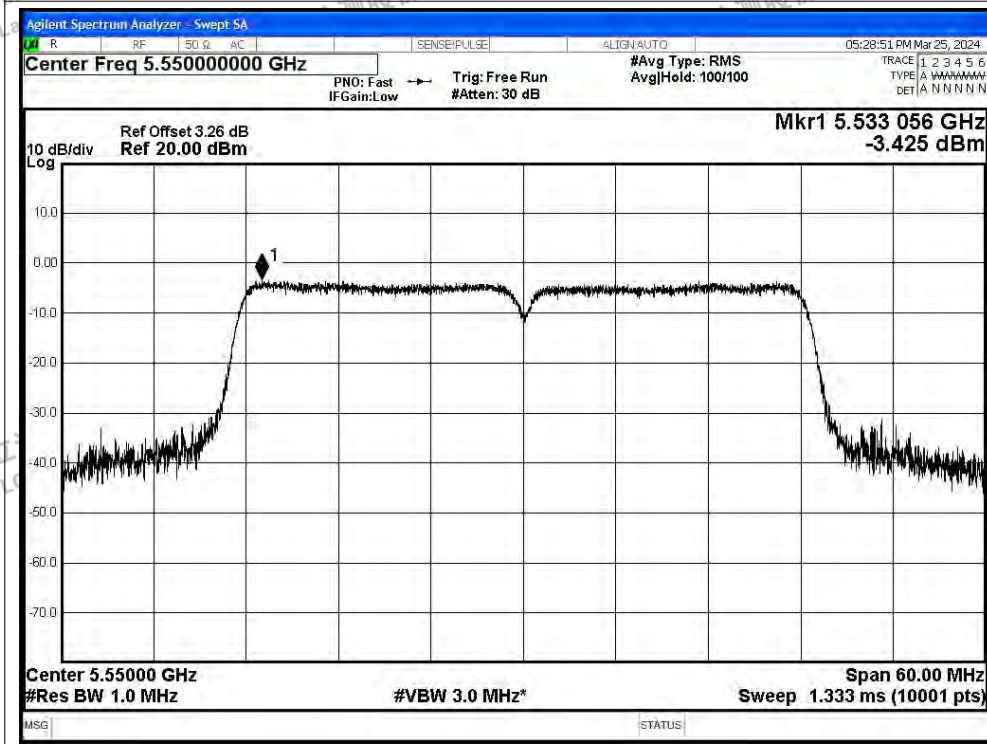




PSD NVNT ac40 5510MHz Ant1

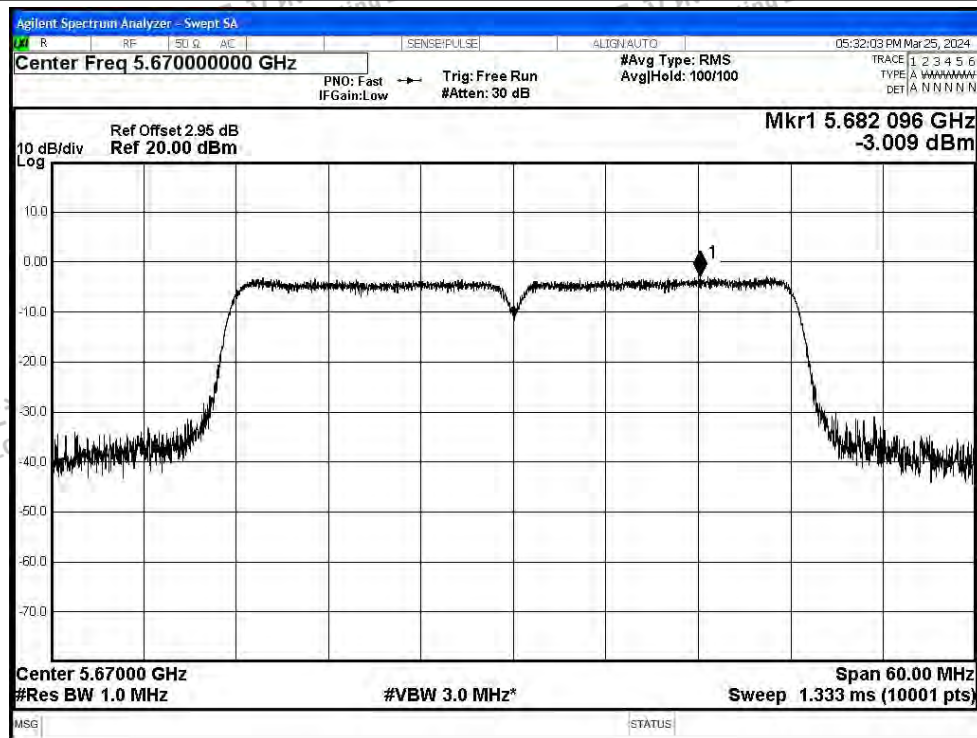


PSD NVNT ac40 5550MHz Ant1

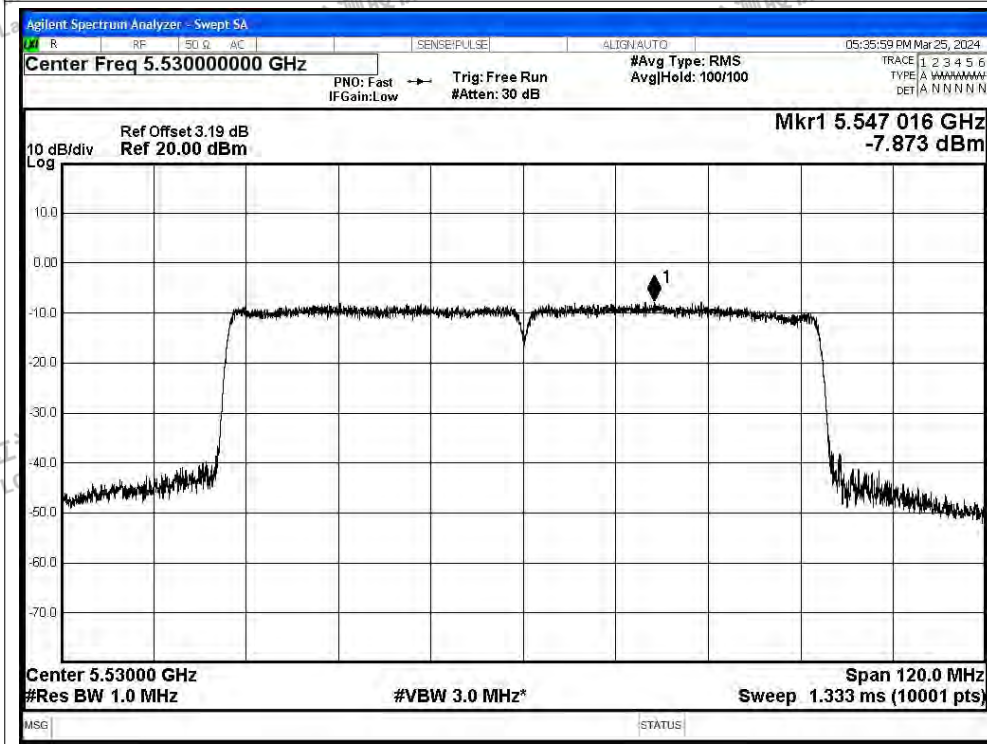




PSD NVNT ac40 5670MHz Ant1

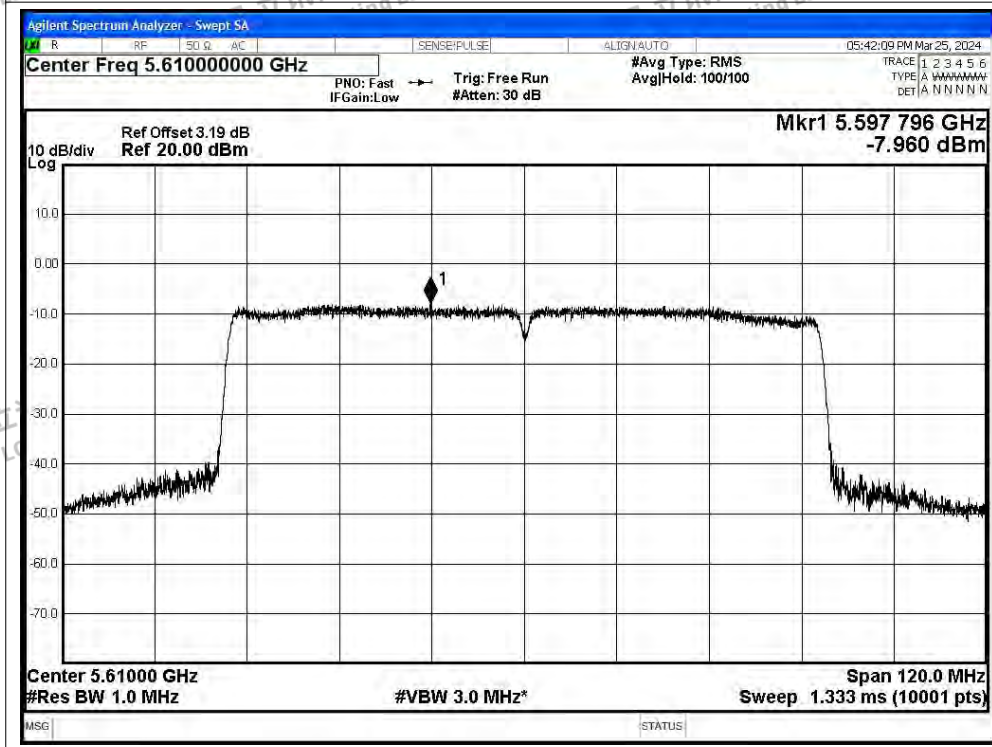


PSD NVNT ac80 5530MHz Ant1





PSD NVNT ac80 5610MHz Ant1

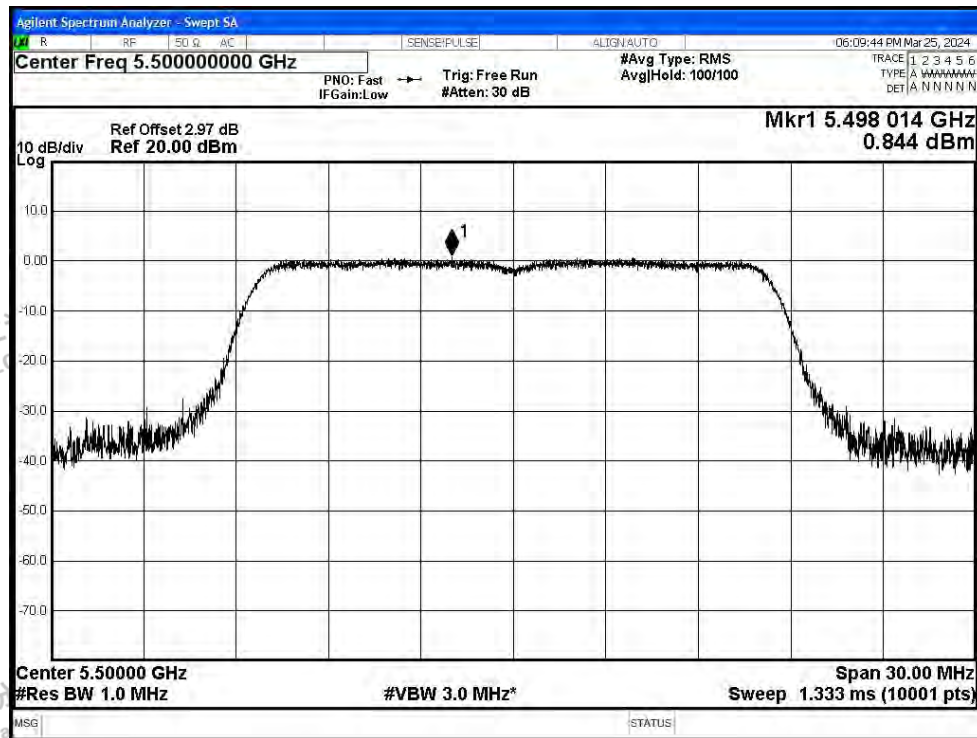


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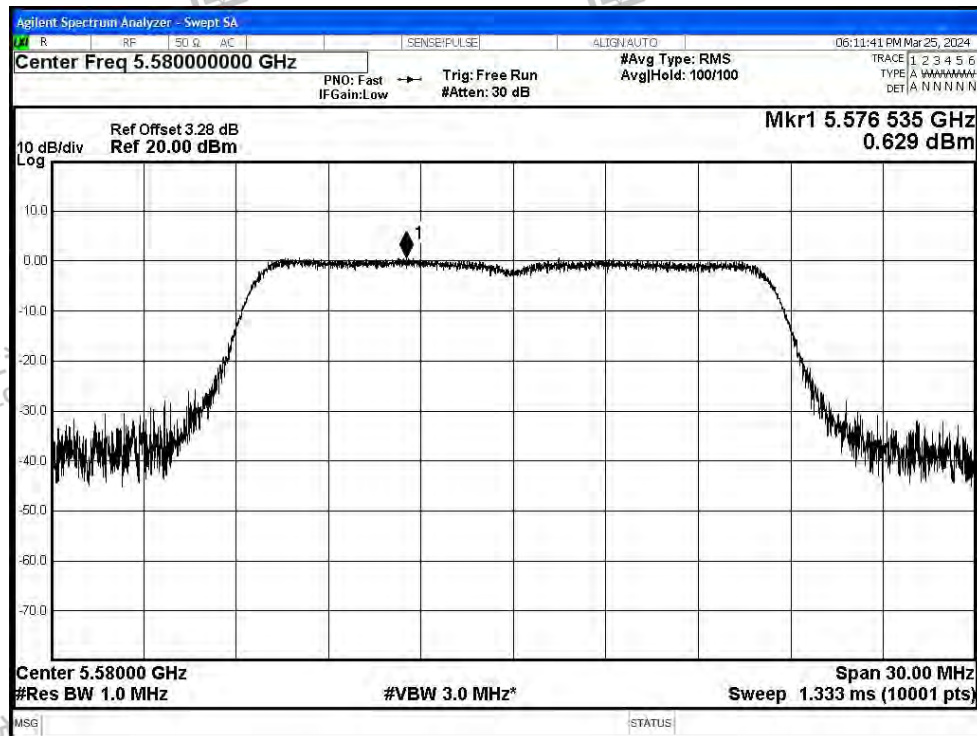


## Test Graphs

## PSD NVNT a 5500MHz Ant2



## PSD NVNT a 5580MHz Ant2



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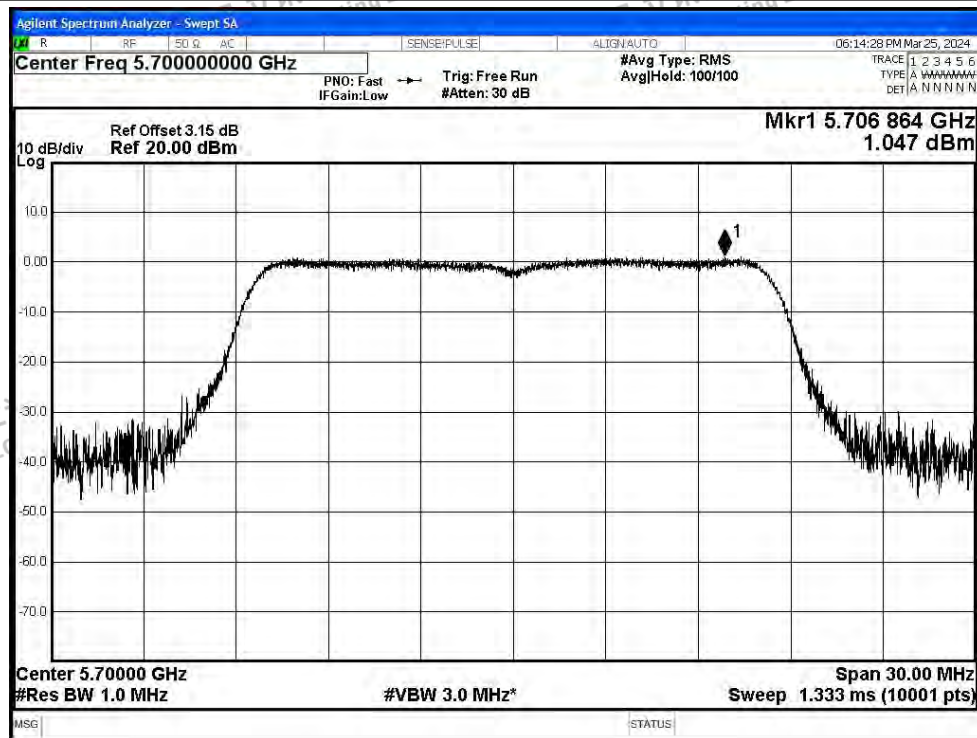
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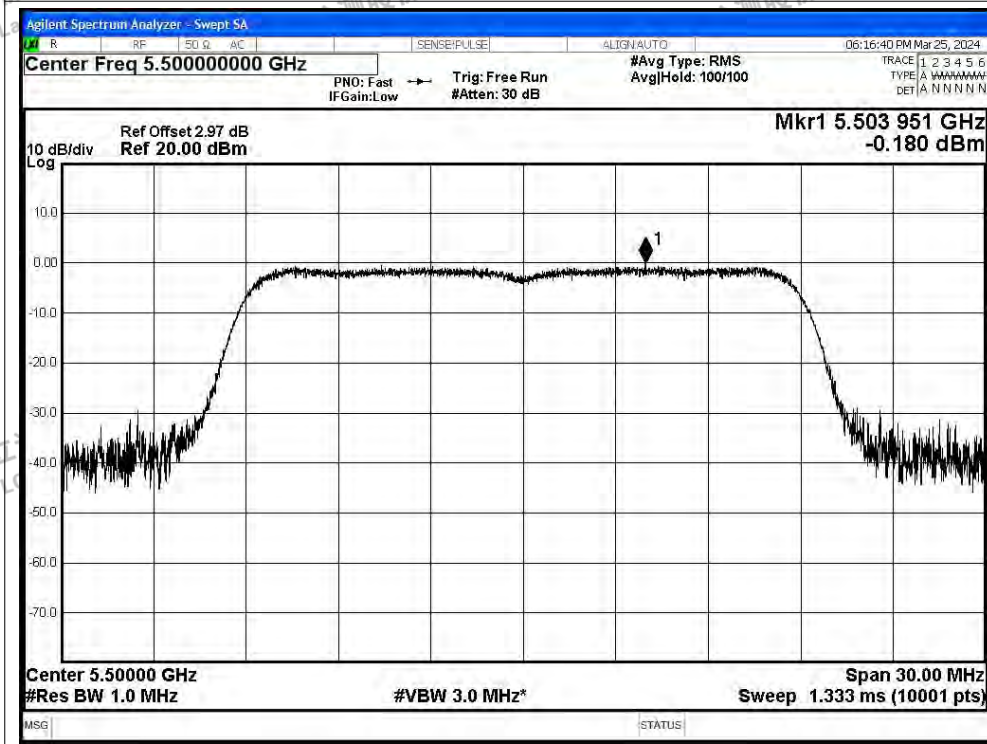
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PSD NVNT a 5700MHz Ant2

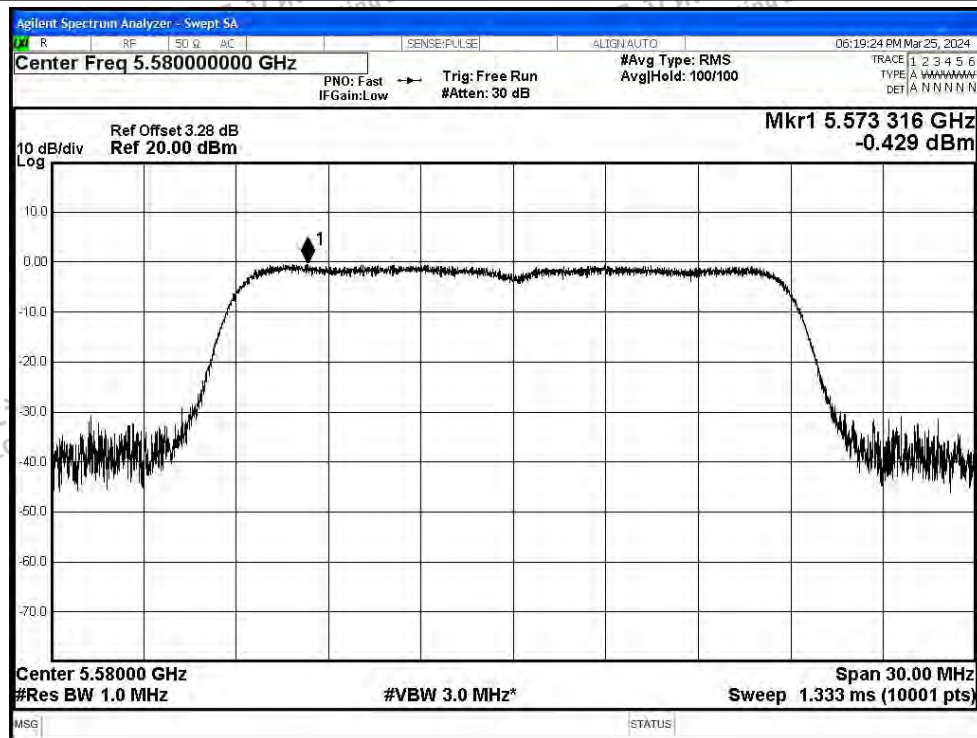


PSD NVNT n20 5500MHz Ant2

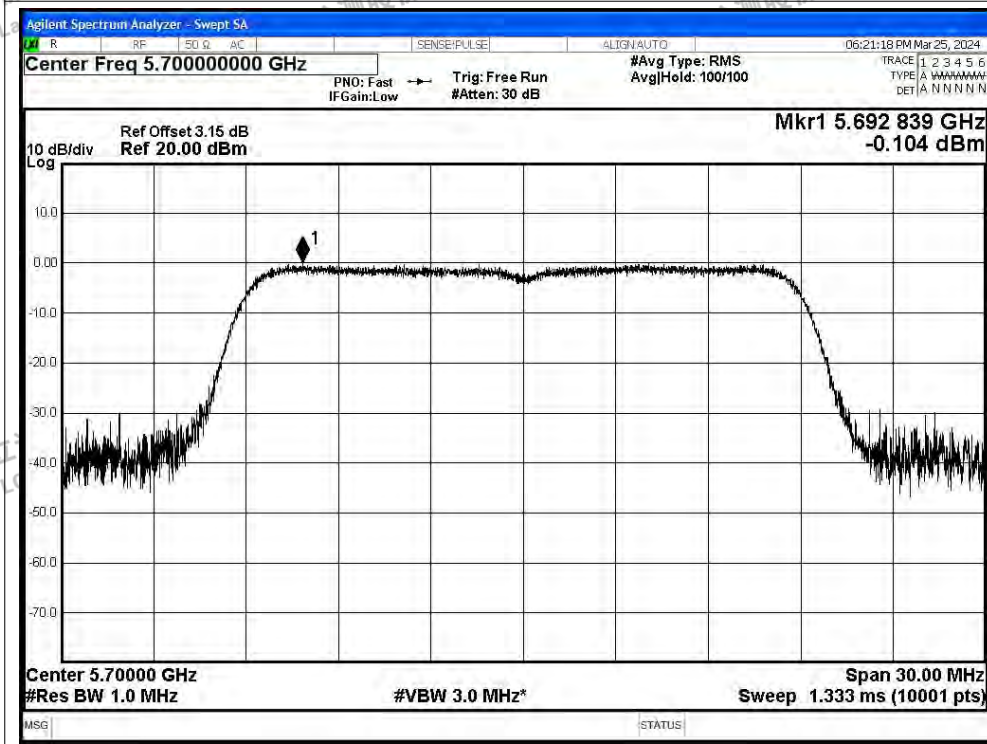




PSD NVNT n20 5580MHz Ant2

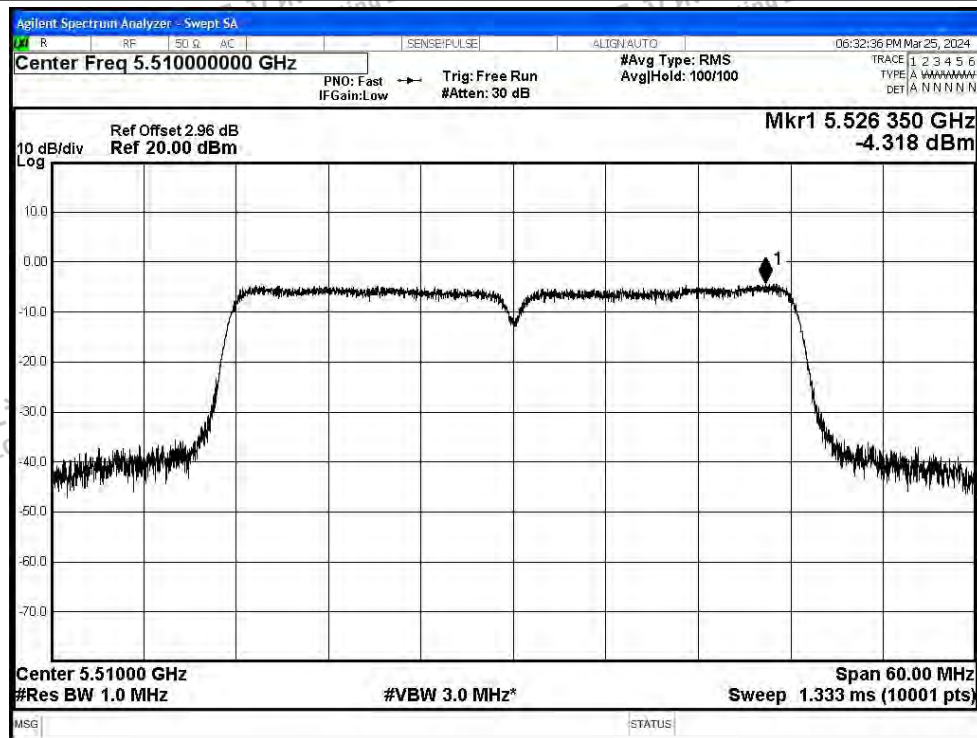


PSD NVNT n20 5700MHz Ant2

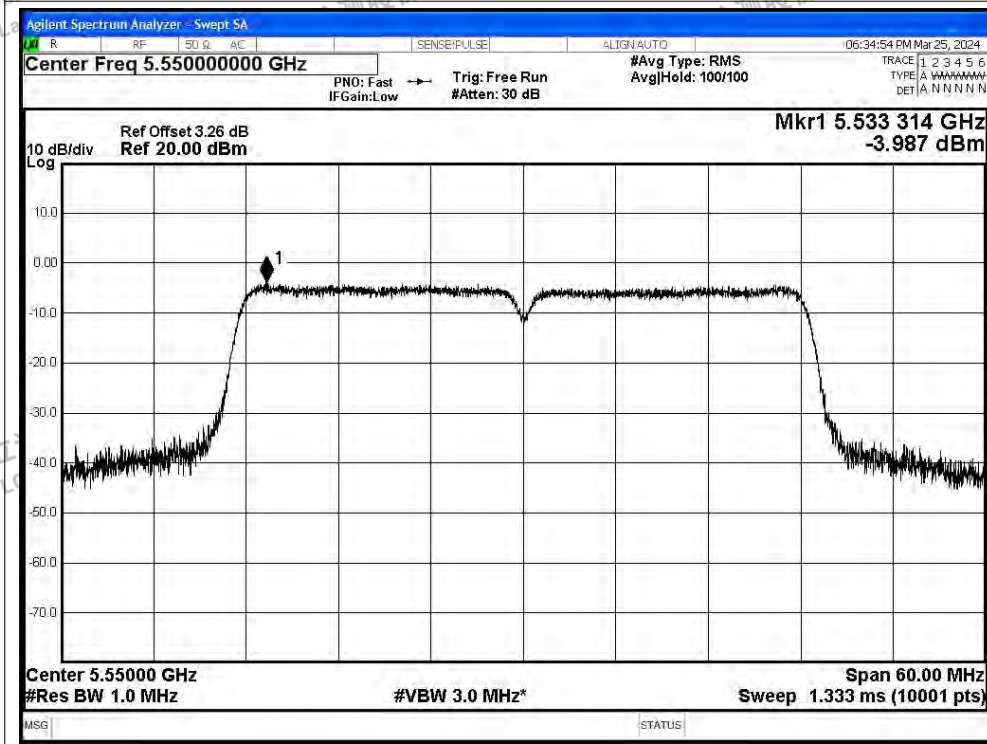




## PSD NVNT n40 5510MHz Ant2

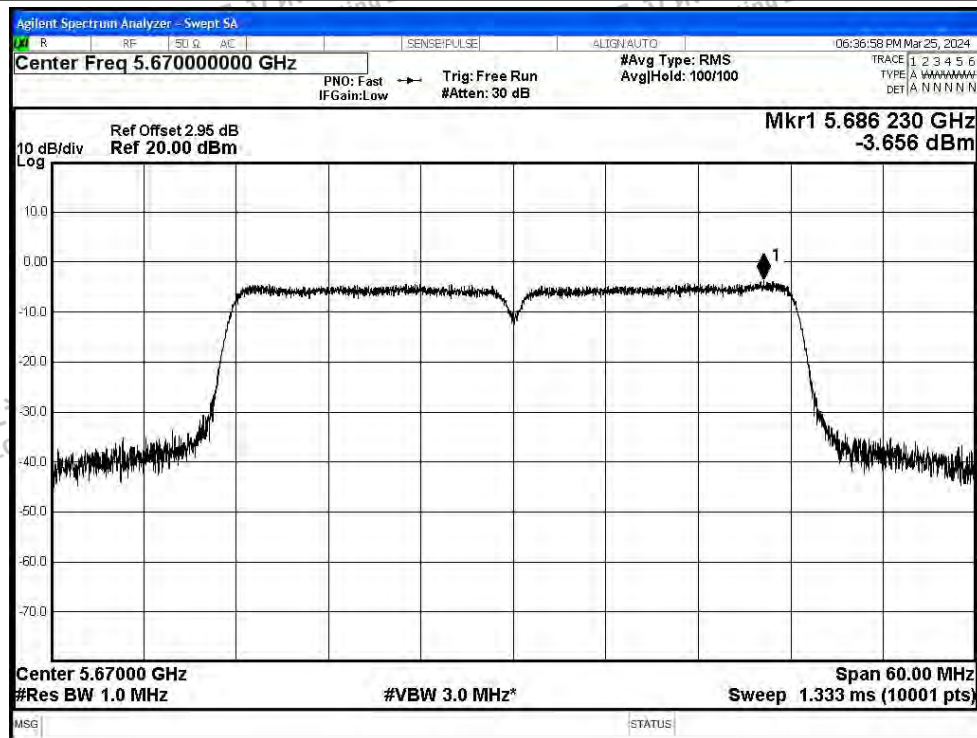


## PSD NVNT n40 5550MHz Ant2

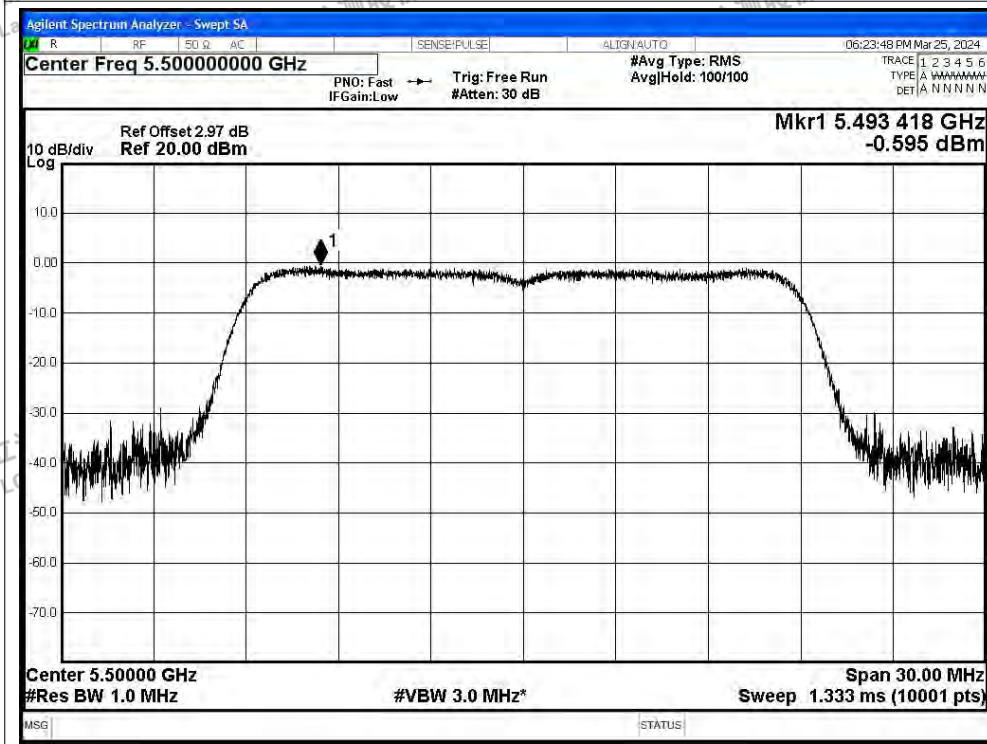




## PSD NVNT n40 5670MHz Ant2

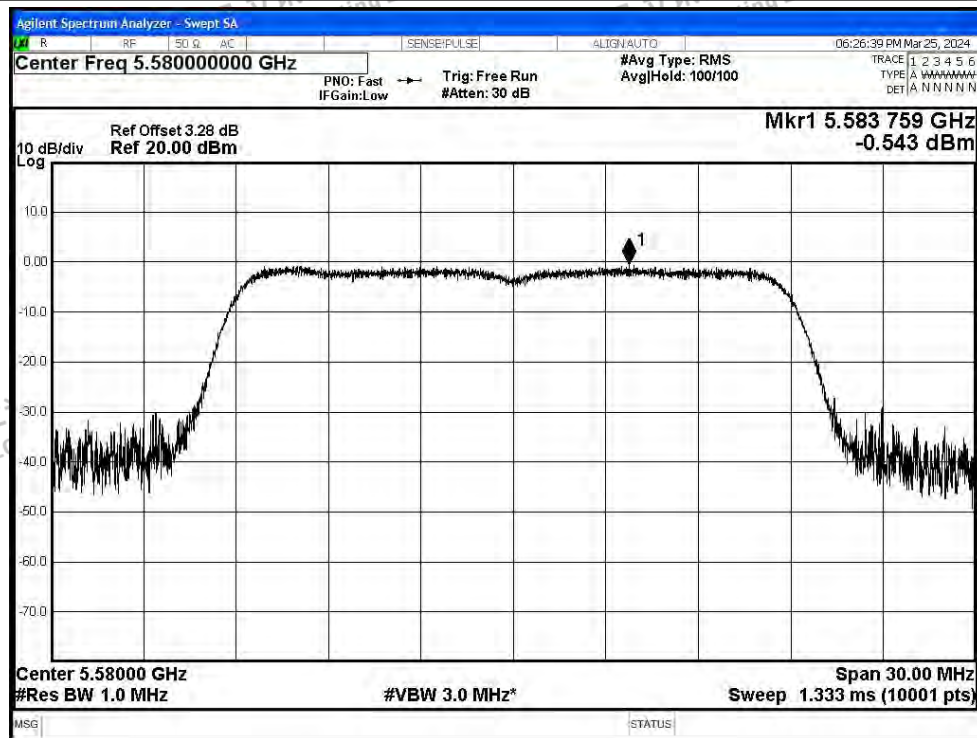


## PSD NVNT ac20 5500MHz Ant2

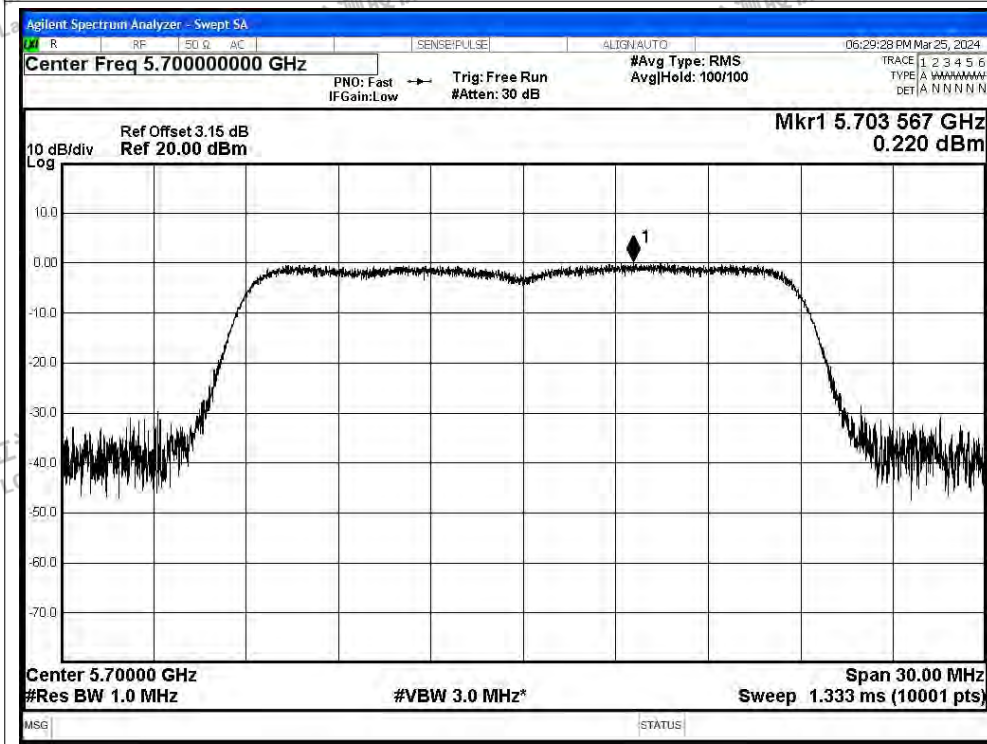




PSD NVNT ac20 5580MHz Ant2

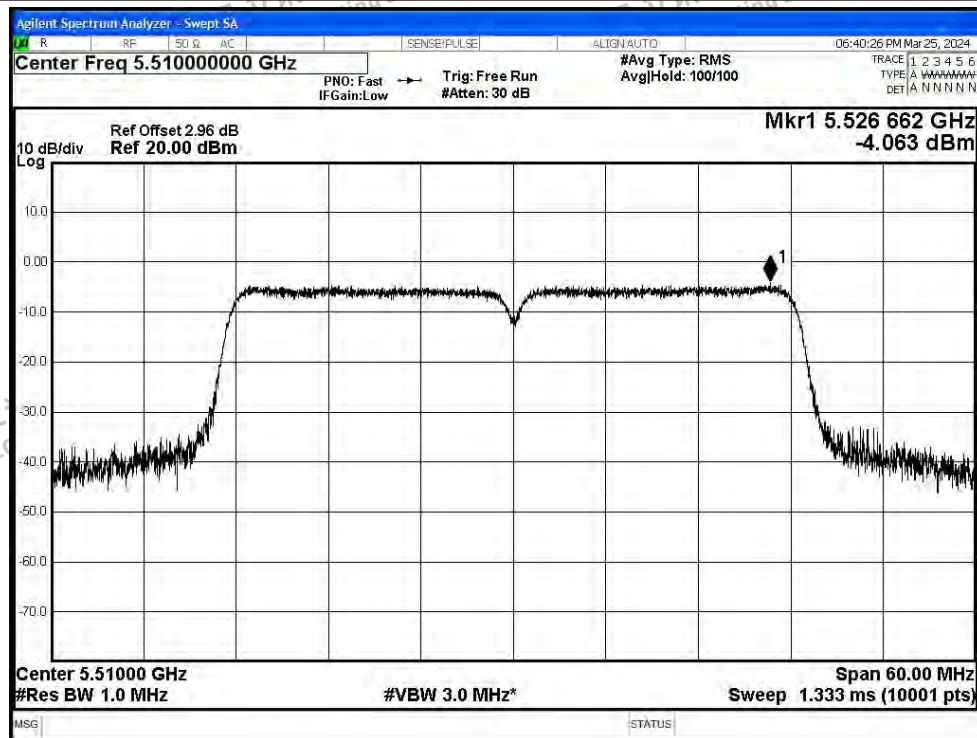


PSD NVNT ac20 5700MHz Ant2

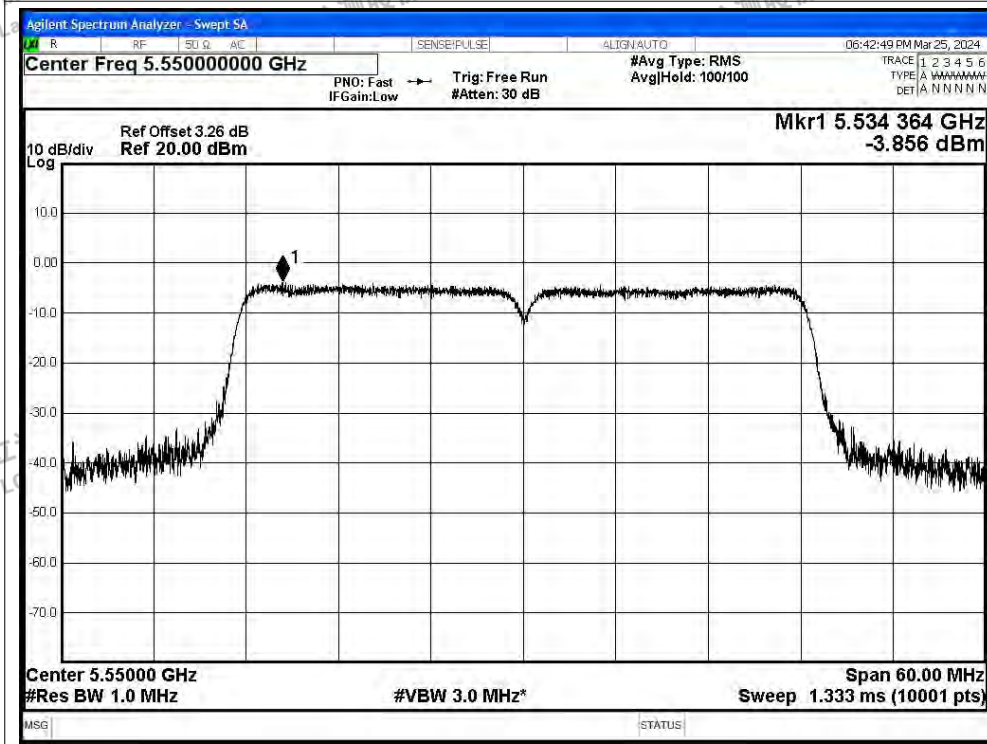




## PSD NVNT ac40 5510MHz Ant2

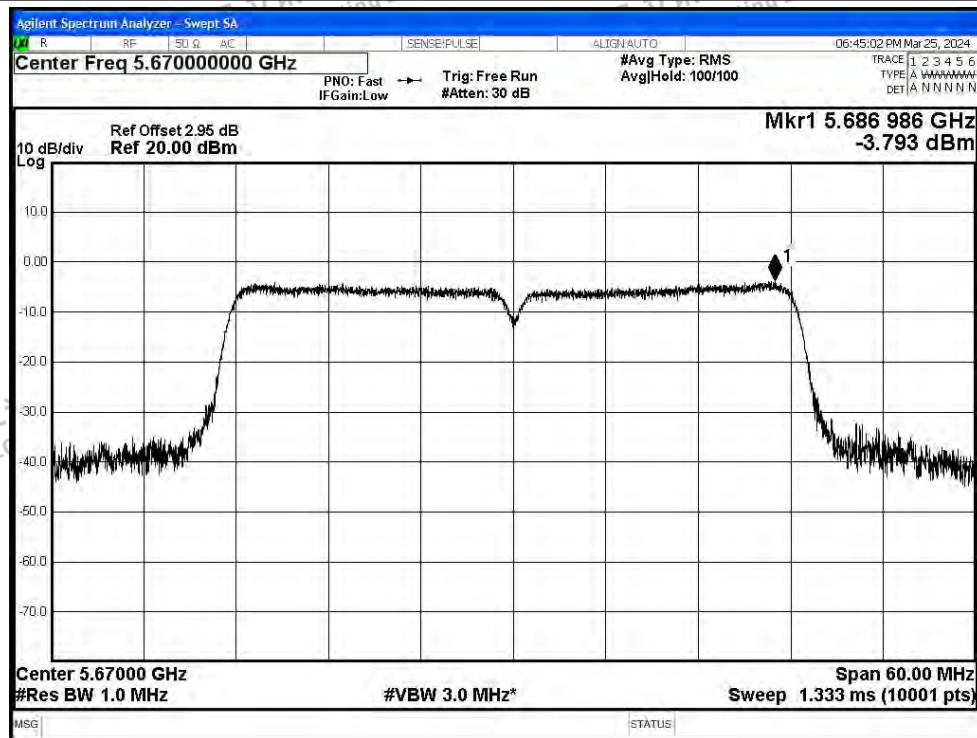


## PSD NVNT ac40 5550MHz Ant2

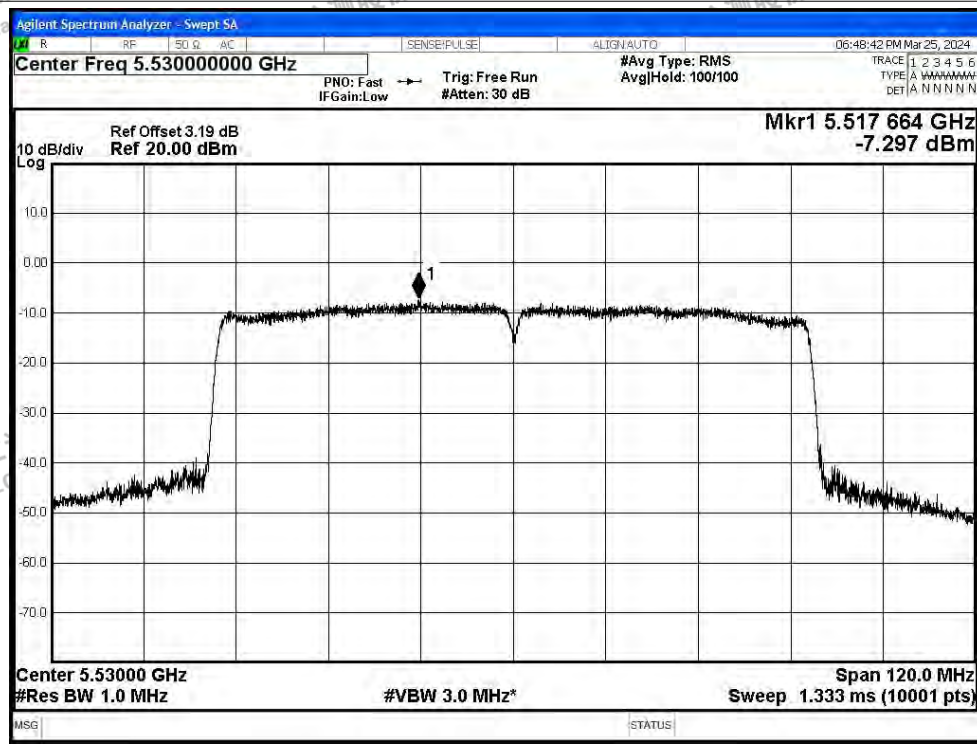




PSD NVNT ac40 5670MHz Ant2

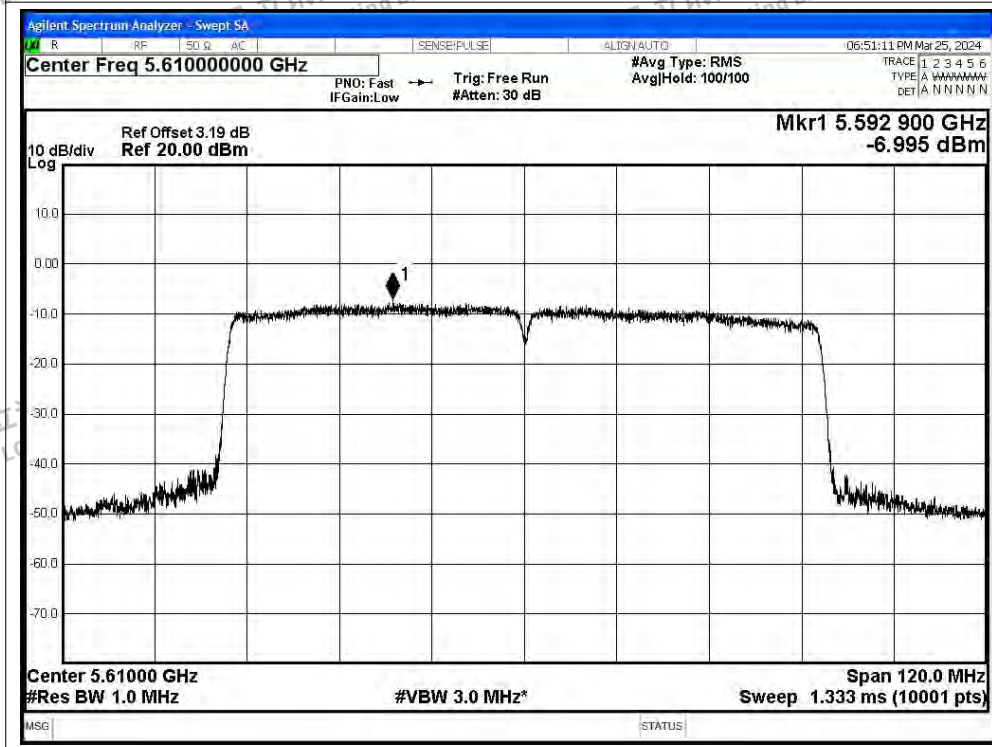


PSD NVNT ac80 5530MHz Ant2





PSD NVNT ac80 5610MHz Ant2



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## F.4 Restrict Band

| Condition | Mode    | Frequency<br>(MHz) | Spur Freq<br>(MHz) | Power<br>(dBm) | Gain<br>(dBi) | Duty<br>Factor<br>(dB) | E<br>(dBuV/m) | Detector | Limit<br>(dBuV/m) | Verdict |
|-----------|---------|--------------------|--------------------|----------------|---------------|------------------------|---------------|----------|-------------------|---------|
| NVNT      | a       | 5500               | 5460               | -42.7          | 3.61          | -                      | 56.17         | Peak     | 74                | Pass    |
| NVNT      | a       | 5500               | 5460               | -53.36         | 3.61          | 0.6                    | 45.51         | Average  | 54                | Pass    |
| NVNT      | a       | 5500               | 5469.8             | -33.96         | 3.61          | -                      | 64.91         | Peak     | 74                | Pass    |
| NVNT      | a       | 5500               | 5469.4             | -47.54         | 3.61          | 0.6                    | 51.33         | Average  | 54                | Pass    |
| NVNT      | a       | 5500               | 5470               | -35.2          | 3.61          | -                      | 63.67         | Peak     | 74                | Pass    |
| NVNT      | a       | 5500               | 5470               | -47.77         | 3.61          | 0.6                    | 51.10         | Average  | 54                | Pass    |
| NVNT      | a       | 5700               | 5725               | -39.82         | 3.61          | -                      | 59.05         | Peak     | 74                | Pass    |
| NVNT      | a       | 5700               | 5725               | -50.61         | 3.61          | 0.57                   | 48.26         | Average  | 54                | Pass    |
| NVNT      | a       | 5700               | 5725.6             | -33.1          | 3.61          | -                      | 65.77         | Peak     | 74                | Pass    |
| NVNT      | a       | 5700               | 5725.6             | -49.9          | 3.61          | 0.57                   | 48.97         | Average  | 54                | Pass    |
| NVNT      | a       | 5700               | 5735               | -44.76         | 3.61          | -                      | 54.11         | Peak     | 74                | Pass    |
| NVNT      | a       | 5700               | 5735               | -53.8          | 3.61          | 0.57                   | 45.07         | Average  | 54                | Pass    |
| NVNT      | n20mimo | 5500               | 5460               | -43.17         | 6.62          | -                      | 58.71         | Peak     | 74                | Pass    |
| NVNT      | n20mimo | 5500               | 5460               | -53.87         | 6.62          | 1.04                   | 48.01         | Average  | 54                | Pass    |
| NVNT      | n20mimo | 5500               | 5468.8             | -35.85         | 6.62          | -                      | 66.03         | Peak     | 74                | Pass    |
| NVNT      | n20mimo | 5500               | 5469.8             | -42.5          | 6.62          | 1.04                   | 51.38         | Average  | 54                | Pass    |
| NVNT      | n20mimo | 5500               | 5470               | -37.73         | 6.62          | -                      | 64.15         | Peak     | 74                | Pass    |
| NVNT      | n20mimo | 5500               | 5470               | -47.94         | 6.62          | 1.04                   | 53.94         | Average  | 54                | Pass    |
| NVNT      | n20mimo | 5700               | 5725               | -32.81         | 6.62          | -                      | 69.07         | Peak     | 74                | Pass    |
| NVNT      | n20mimo | 5700               | 5725               | -50.39         | 6.62          | 0.7                    | 51.49         | Average  | 54                | Pass    |
| NVNT      | n20mimo | 5700               | 5726.6             | -31.15         | 6.62          | -                      | 70.73         | Peak     | 74                | Pass    |
| NVNT      | n20mimo | 5700               | 5726.4             | -48.1          | 6.62          | 0.7                    | 53.78         | Average  | 54                | Pass    |
| NVNT      | n20mimo | 5700               | 5735               | -46.28         | 6.62          | -                      | 55.60         | Peak     | 74                | Pass    |
| NVNT      | n20mimo | 5700               | 5735               | -54.23         | 6.62          | 0.7                    | 47.65         | Average  | 54                | Pass    |
| NVNT      | n40mimo | 5510               | 5460               | -41.35         | 6.62          | -                      | 60.53         | Peak     | 74                | Pass    |
| NVNT      | n40mimo | 5510               | 5460               | -51            | 6.62          | 0.32                   | 50.88         | Average  | 54                | Pass    |
| NVNT      | n40mimo | 5510               | 5469               | -31.34         | 6.62          | -                      | 70.54         | Peak     | 74                | Pass    |
| NVNT      | n40mimo | 5510               | 5468.6             | -42.87         | 6.62          | 0.32                   | 51.01         | Average  | 54                | Pass    |
| NVNT      | n40mimo | 5510               | 5470               | -35.69         | 6.62          | -                      | 66.19         | Peak     | 74                | Pass    |
| NVNT      | n40mimo | 5510               | 5470               | -44.72         | 6.62          | 0.32                   | 51.16         | Average  | 54                | Pass    |
| NVNT      | n40mimo | 5670               | 5725               | -46.02         | 6.62          | -                      | 55.86         | Peak     | 74                | Pass    |
| NVNT      | n40mimo | 5670               | 5725               | -55.19         | 6.62          | 0.97                   | 46.69         | Average  | 54                | Pass    |
| NVNT      | n40mimo | 5670               | 5725.4             | -43.73         | 6.62          | -                      | 58.15         | Peak     | 74                | Pass    |
| NVNT      | n40mimo | 5670               | 5725.6             | -54.55         | 6.62          | 0.97                   | 47.33         | Average  | 54                | Pass    |
| NVNT      | n40mimo | 5670               | 5735               | -47.94         | 6.62          | -                      | 53.94         | Peak     | 74                | Pass    |
| NVNT      | n40mimo | 5670               | 5735               | -56.32         | 6.62          | 0.97                   | 45.56         | Average  | 54                | Pass    |



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|      |          |      |          |        |      |      |       |         |    |      |
|------|----------|------|----------|--------|------|------|-------|---------|----|------|
| NVNT | ac20mimo | 5500 | 5460     | -43.44 | 6.62 | -    | 58.44 | Peak    | 74 | Pass |
| NVNT | ac20mimo | 5500 | 5460     | -54.15 | 6.62 | 0.66 | 47.73 | Average | 54 | Pass |
| NVNT | ac20mimo | 5500 | 5468.8   | -36.44 | 6.62 | -    | 65.44 | Peak    | 74 | Pass |
| NVNT | ac20mimo | 5500 | 5469.4   | -48.47 | 6.62 | 0.66 | 53.41 | Average | 54 | Pass |
| NVNT | ac20mimo | 5500 | 5470     | -37.06 | 6.62 | -    | 64.82 | Peak    | 74 | Pass |
| NVNT | ac20mimo | 5500 | 5470     | -48.95 | 6.62 | 0.66 | 52.93 | Average | 54 | Pass |
| NVNT | ac20mimo | 5700 | 5725     | -31.62 | 6.62 | -    | 70.26 | Peak    | 74 | Pass |
| NVNT | ac20mimo | 5700 | 5725     | -44.85 | 6.62 | 0.69 | 57.03 | Average | 54 | Pass |
| NVNT | ac20mimo | 5700 | 5725.2   | -29.72 | 6.62 | -    | 72.16 | Peak    | 74 | Pass |
| NVNT | ac20mimo | 5700 | 5735     | -45.32 | 6.62 | -    | 56.56 | Peak    | 74 | Pass |
| NVNT | ac20mimo | 5700 | 5735     | -53.72 | 6.62 | 0.69 | 48.16 | Average | 54 | Pass |
| NVNT | ac40mimo | 5510 | 5460     | -41.22 | 6.62 | -    | 60.66 | Peak    | 74 | Pass |
| NVNT | ac40mimo | 5510 | 5460     | -58.62 | 6.62 | 1    | 43.26 | Average | 54 | Pass |
| NVNT | ac40mimo | 5510 | 5466     | -29.42 | 6.62 | -    | 72.46 | Peak    | 74 | Pass |
| NVNT | ac40mimo | 5510 | 5465.2   | -57.64 | 6.62 | 1    | 44.24 | Average | 54 | Pass |
| NVNT | ac40mimo | 5510 | 5470     | -36.56 | 6.62 | -    | 65.32 | Peak    | 74 | Pass |
| NVNT | ac40mimo | 5510 | 5470     | -58.12 | 6.62 | 1    | 43.76 | Average | 54 | Pass |
| NVNT | ac40mimo | 5670 | 5725     | -46.2  | 6.62 | -    | 55.68 | Peak    | 74 | Pass |
| NVNT | ac40mimo | 5670 | 5725     | -55.7  | 6.62 | 1.27 | 46.18 | Average | 54 | Pass |
| NVNT | ac40mimo | 5670 | 5730.6   | -44.55 | 6.62 | -    | 57.33 | Peak    | 74 | Pass |
| NVNT | ac40mimo | 5670 | 5726.6   | -54.86 | 6.62 | 1.27 | 47.02 | Average | 54 | Pass |
| NVNT | ac40mimo | 5670 | 5735     | -47.76 | 6.62 | -    | 54.12 | Peak    | 74 | Pass |
| NVNT | ac40mimo | 5670 | 5735     | -56.6  | 6.62 | 1.27 | 45.28 | Average | 54 | Pass |
| NVNT | ac80mimo | 5530 | 5460     | -39.83 | 6.62 | -    | 62.05 | Peak    | 74 | Pass |
| NVNT | ac80mimo | 5530 | 5460     | -48.44 | 6.62 | 2.03 | 53.44 | Average | 54 | Pass |
| NVNT | ac80mimo | 5530 | 5467.2   | -36.01 | 6.62 | -    | 65.87 | Peak    | 74 | Pass |
| NVNT | ac80mimo | 5530 | 5465.6   | -47.16 | 6.62 | 2.03 | 54.72 | Average | 54 | Pass |
| NVNT | ac80mimo | 5530 | 5470     | -37.54 | 6.62 | -    | 64.34 | Peak    | 74 | Pass |
| NVNT | ac80mimo | 5530 | 5470     | -48.24 | 6.62 | 2.03 | 53.64 | Average | 54 | Pass |
| NVNT | ac80mimo | 5610 | 5725     | -48.85 | 6.62 | -    | 53.03 | Peak    | 74 | Pass |
| NVNT | ac80mimo | 5610 | 5725     | -56.58 | 6.62 | 1.86 | 45.30 | Average | 54 | Pass |
| NVNT | ac80mimo | 5610 | 5733.565 | -45.39 | 6.62 | -    | 56.49 | Peak    | 74 | Pass |
| NVNT | ac80mimo | 5610 | 5725.775 | -55.97 | 6.62 | 1.86 | 45.91 | Average | 54 | Pass |
| NVNT | ac80mimo | 5610 | 5735     | -47.01 | 6.62 | -    | 54.87 | Peak    | 74 | Pass |
| NVNT | ac80mimo | 5610 | 5735     | -57.52 | 6.62 | 1.86 | 44.36 | Average | 54 | Pass |

Note: 802.11a mode, only show the worst set of antenna1 data.

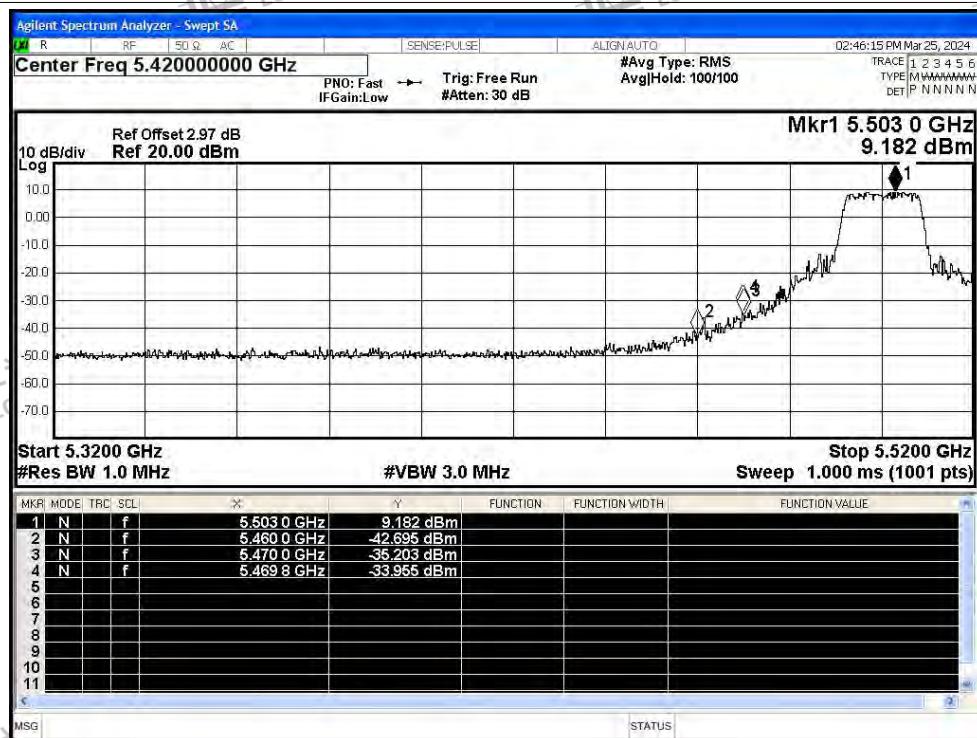


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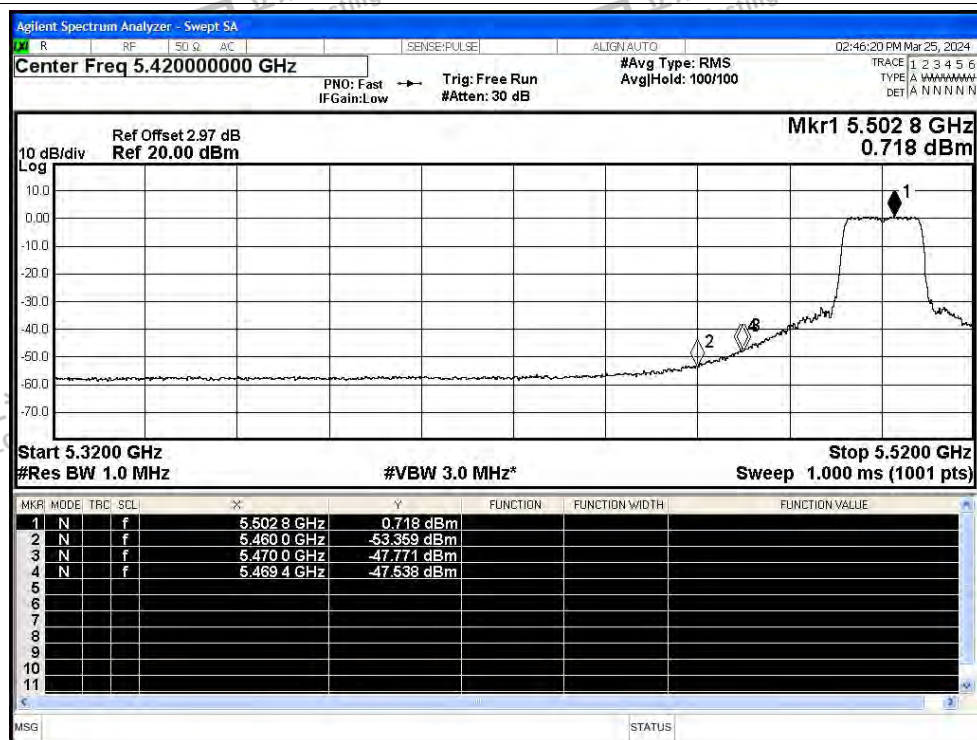


## Test Graphs

## Restrict Band NVNT a 5500MHz Peak



## Restrict Band NVNT a 5500MHz Average



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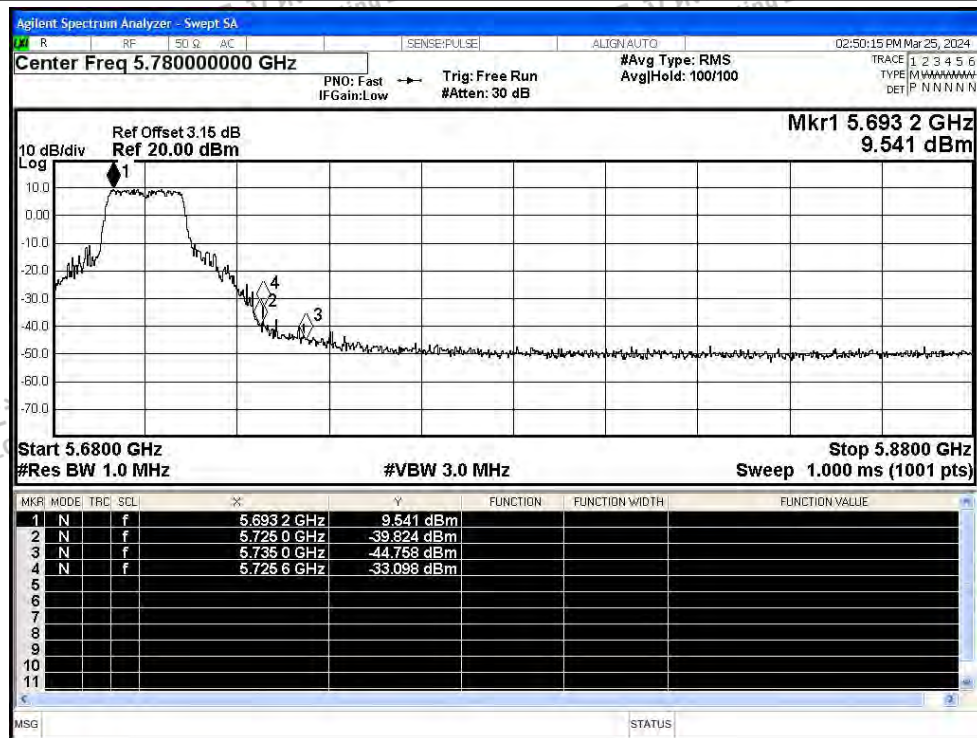
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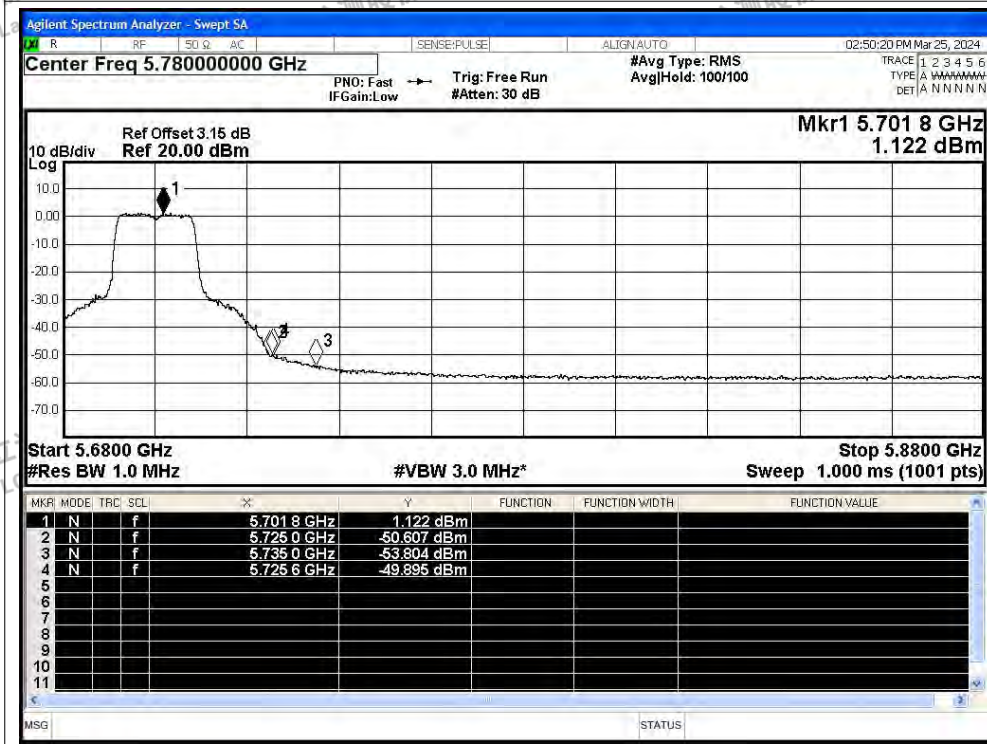
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## Restrict Band NVNT a 5700MHz Peak



## Restrict Band NVNT a 5700MHz Average



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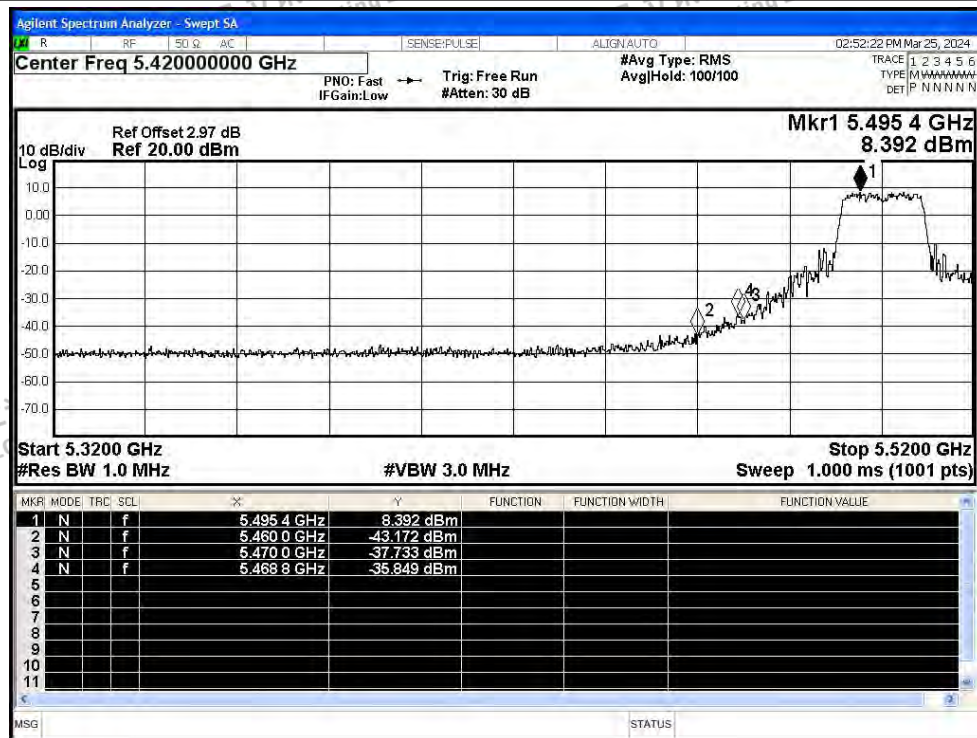
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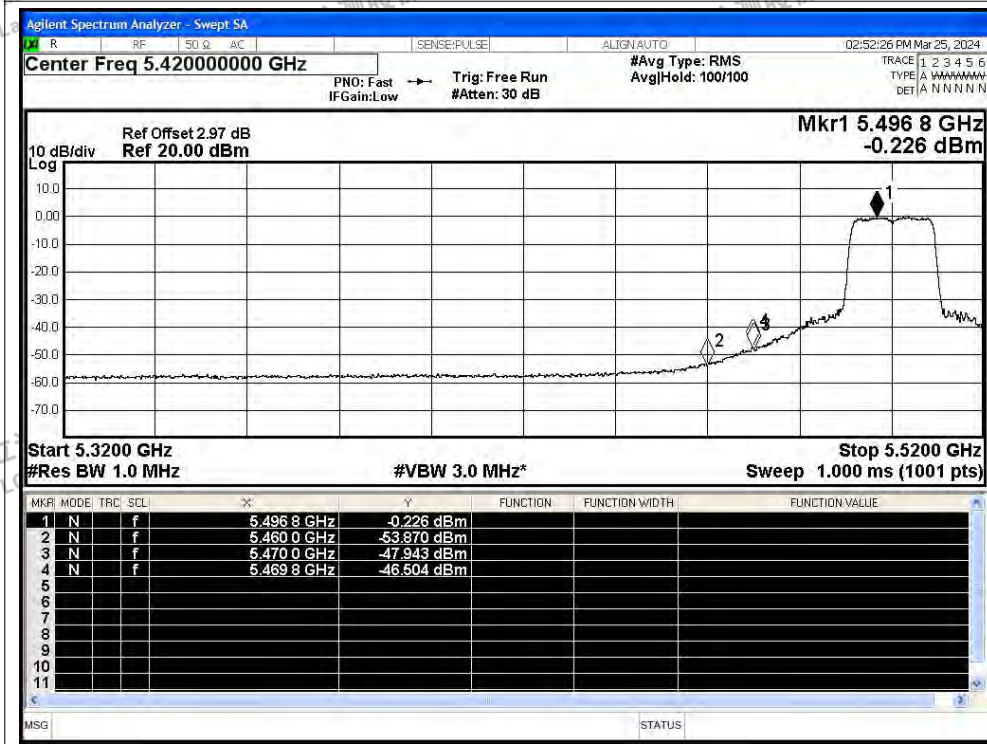
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## Restrict Band NVNT n20 5500MHz Peak



## Restrict Band NVNT n20 5500MHz Average



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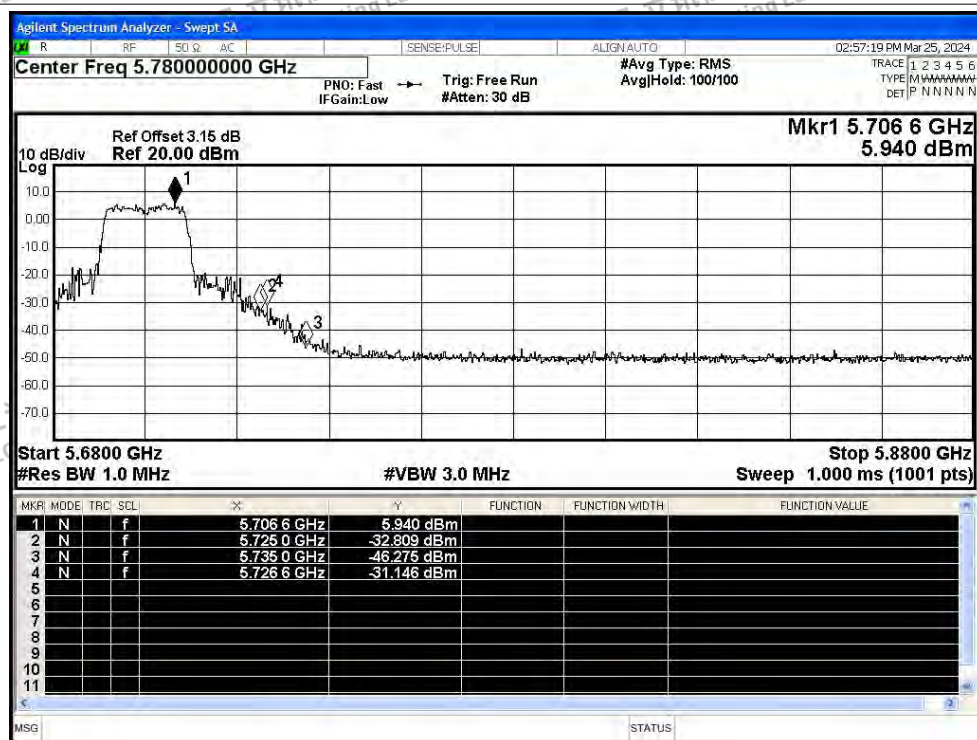
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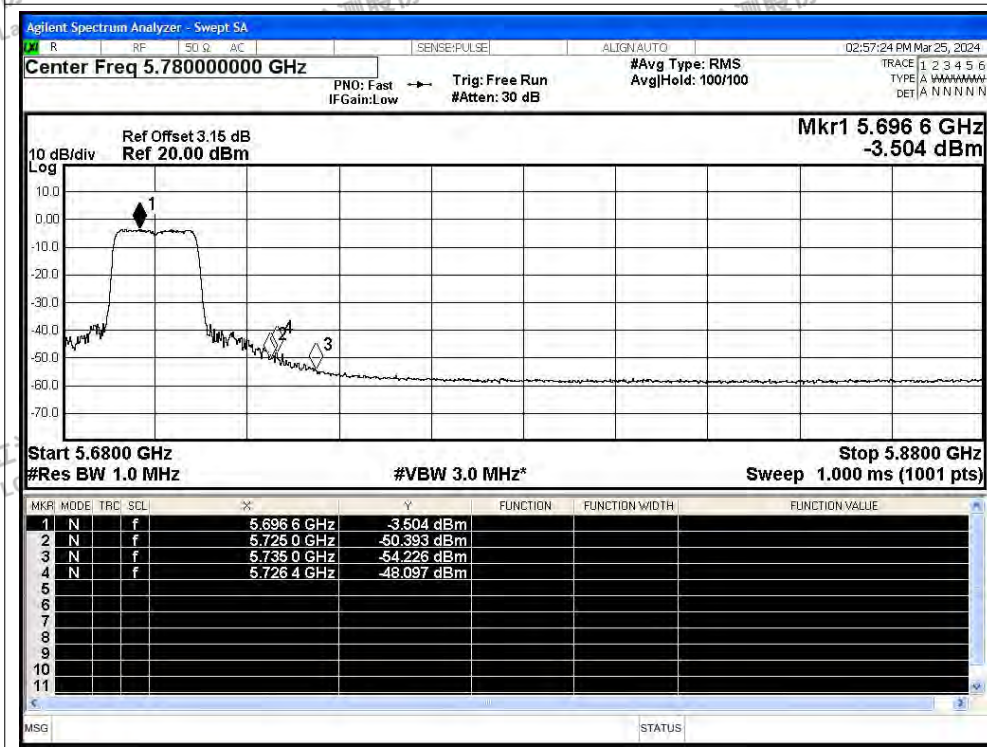
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## Restrict Band NVNT n20 5700MHz Peak



## Restrict Band NVNT n20 5700MHz Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

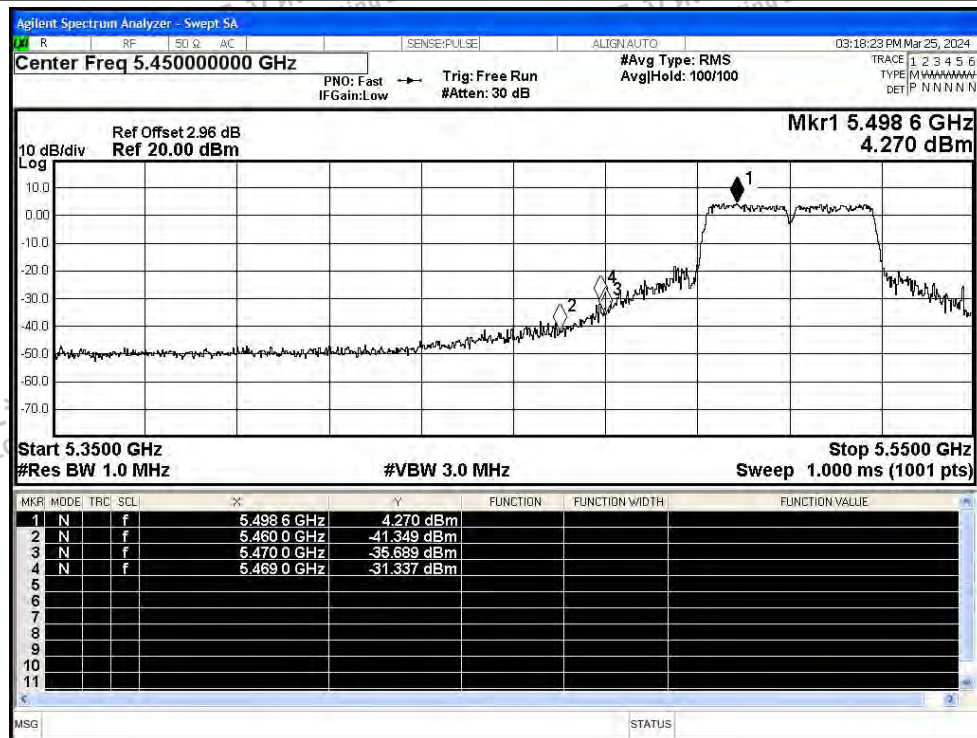
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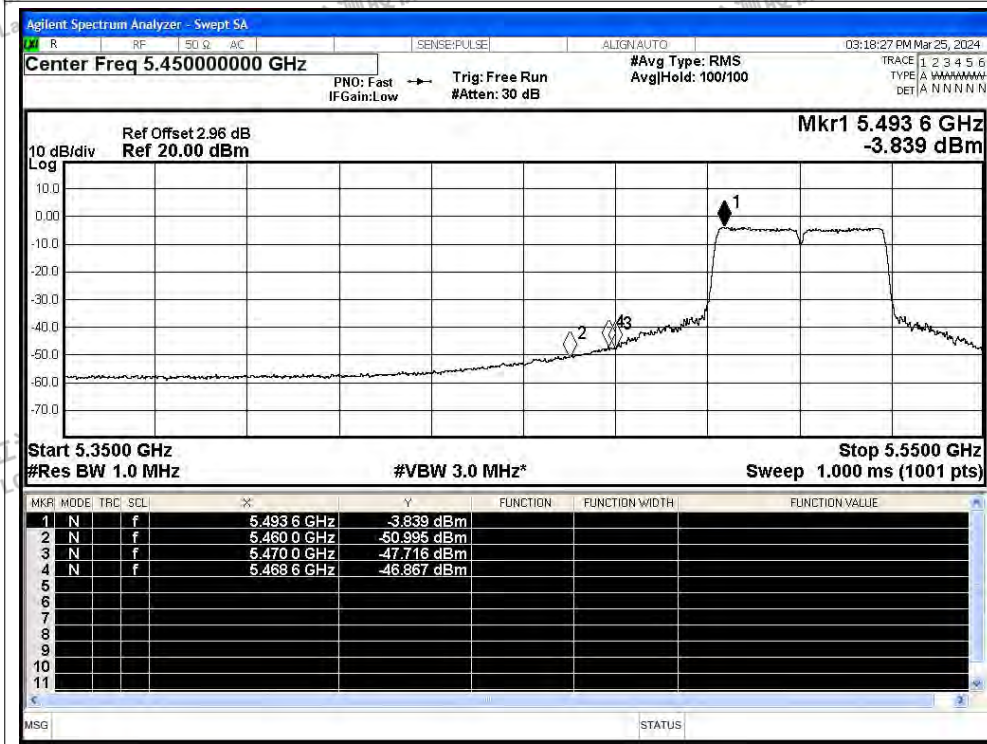
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## Restrict Band NVNT n40 5510MHz Peak



## Restrict Band NVNT n40 5510MHz Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

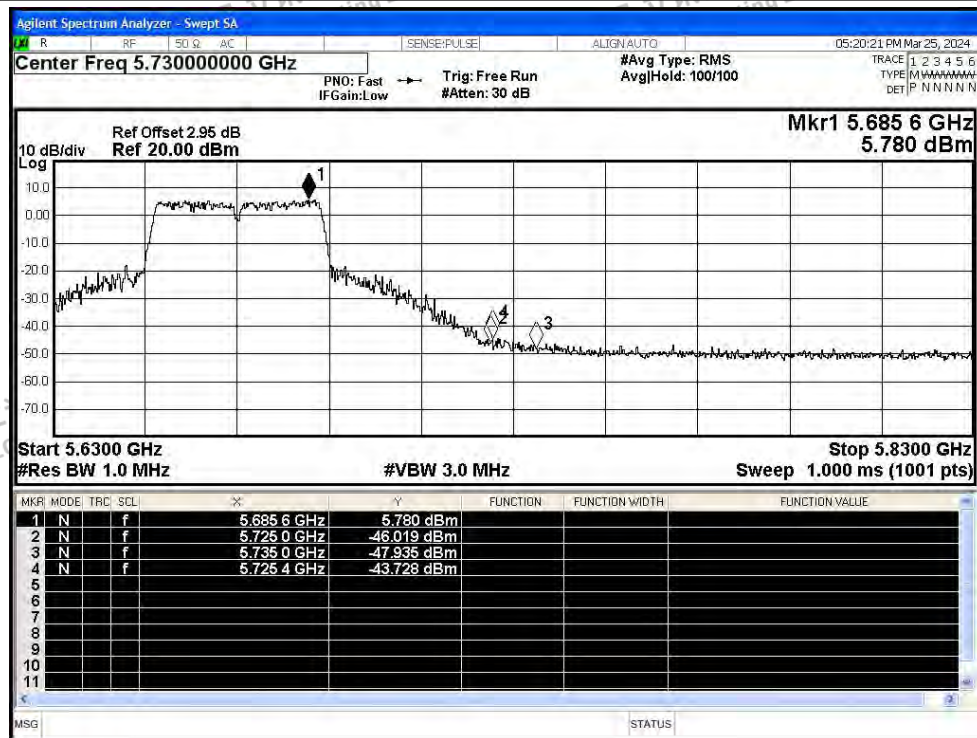
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

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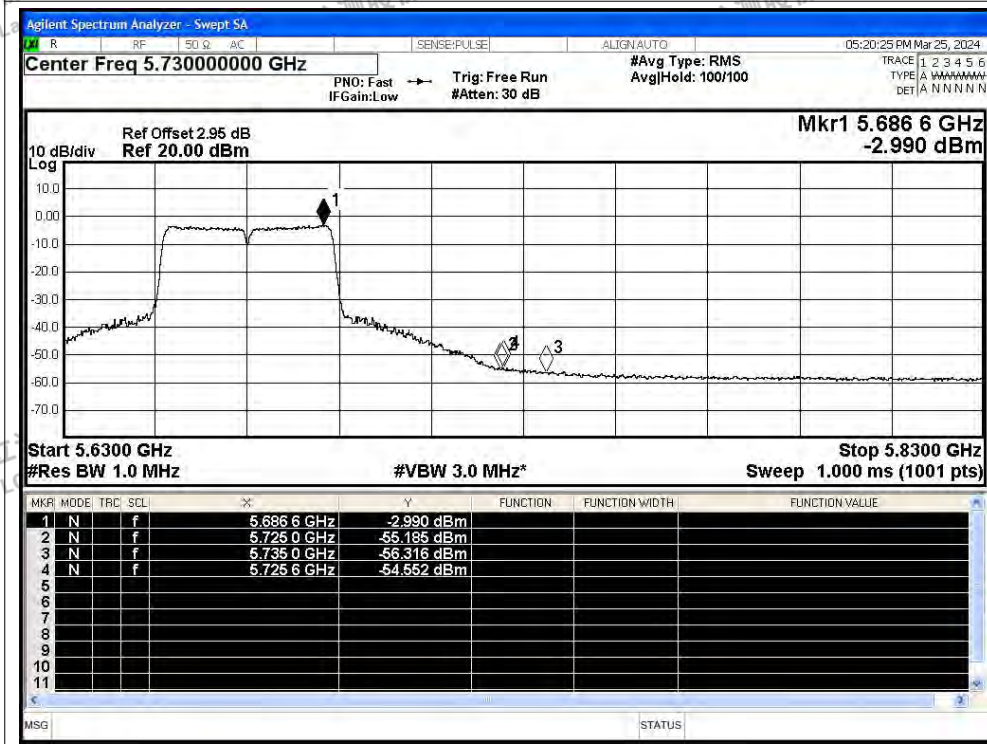
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## Restrict Band NVNT n40 5670MHz Peak



## Restrict Band NVNT n40 5670MHz Average



Shenzhen LCS Compliance Testing Laboratory Ltd.

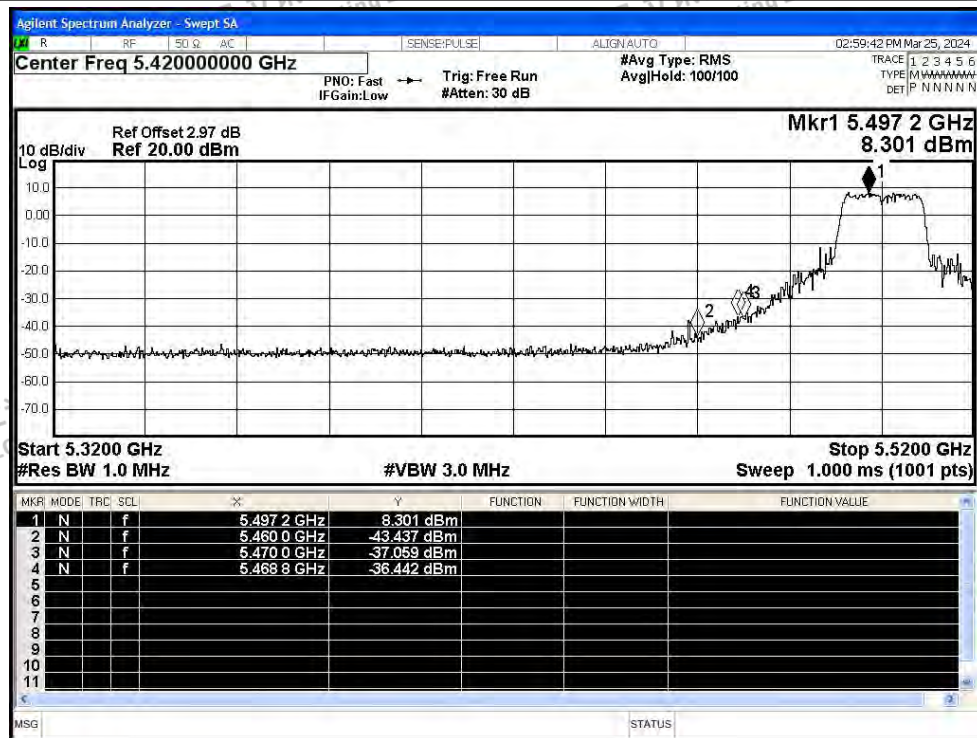
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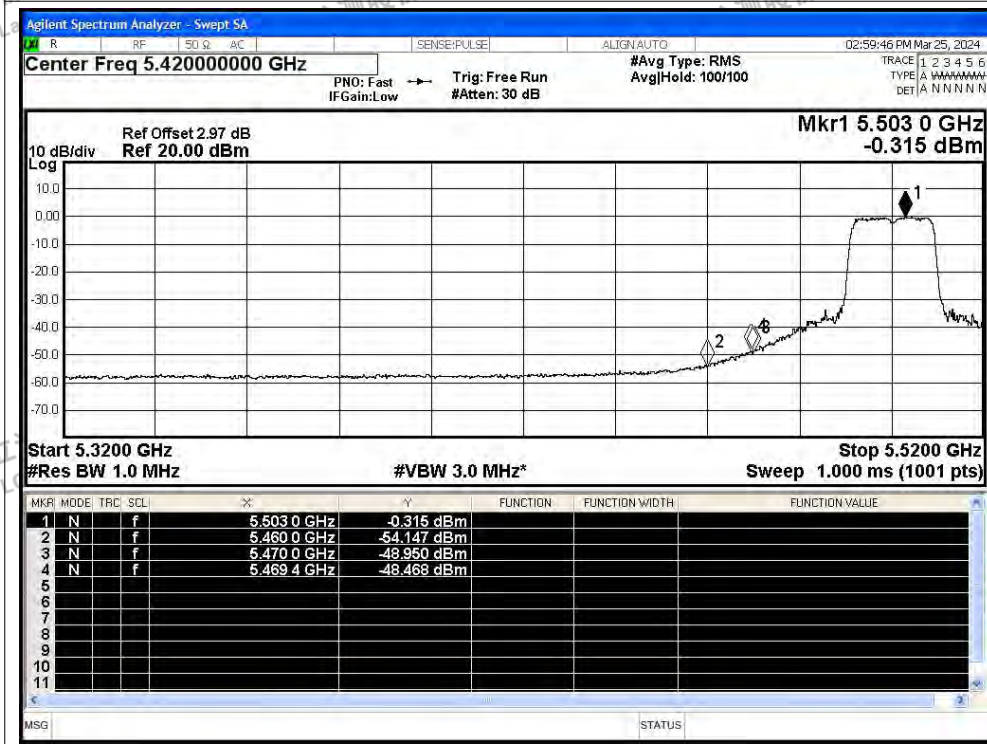
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## Restrict Band NVNT ac20 5500MHz Peak



## Restrict Band NVNT ac20 5500MHz Average



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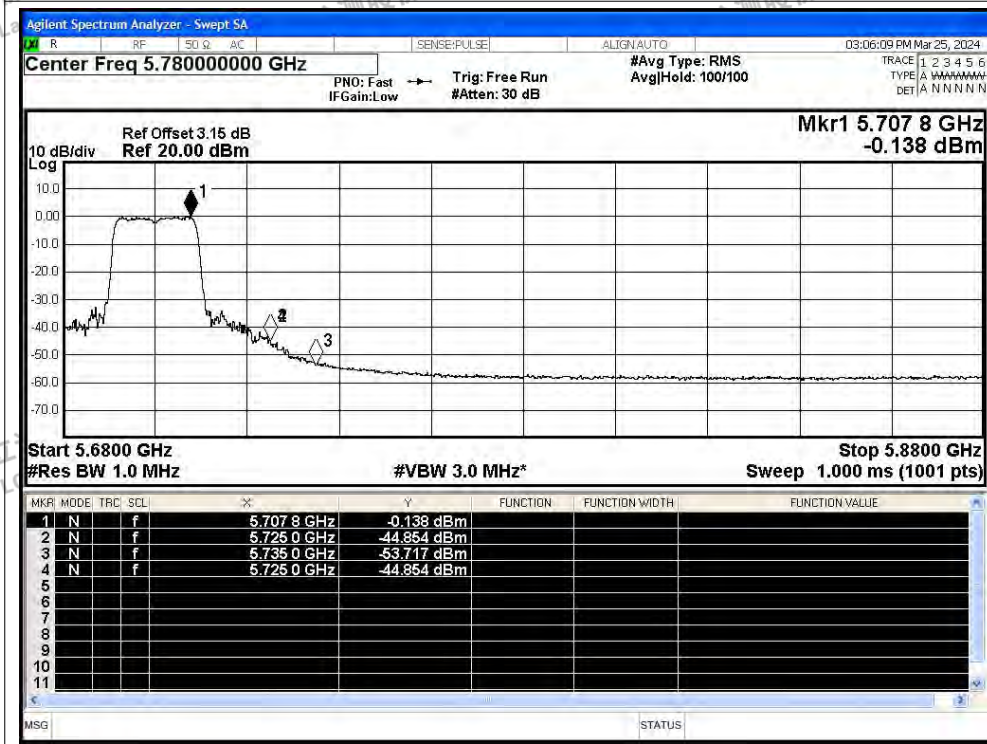
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## Restrict Band NVNT ac20 5700MHz Peak

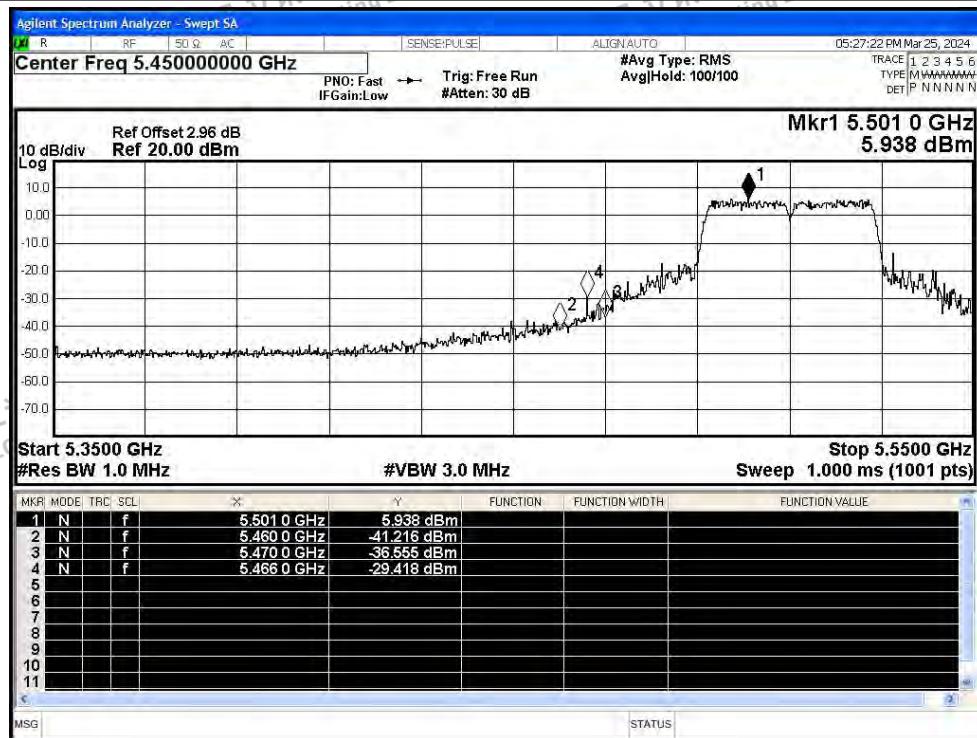


## Restrict Band NVNT ac20 5700MHz Average

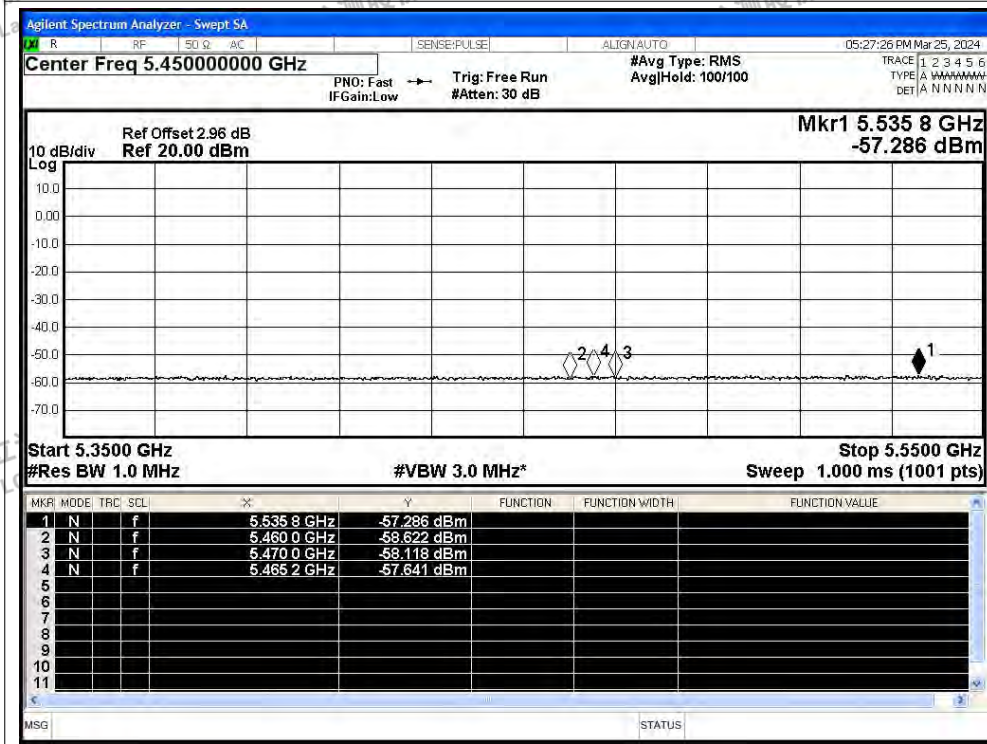




## Restrict Band NVNT ac40 5510MHz Peak



## Restrict Band NVNT ac40 5510MHz Average



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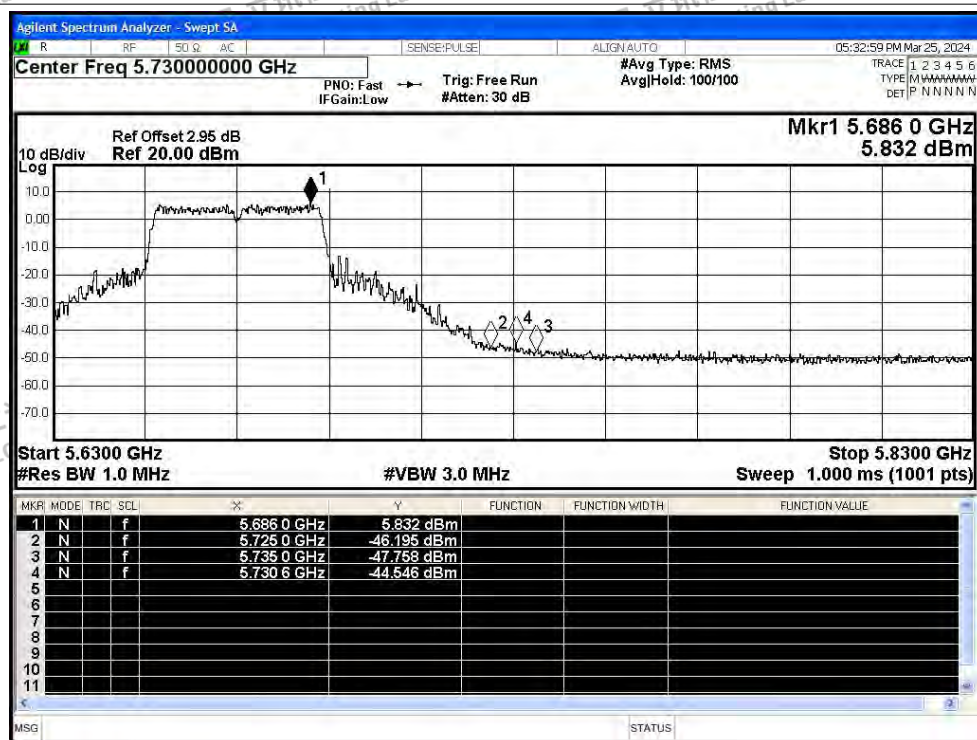
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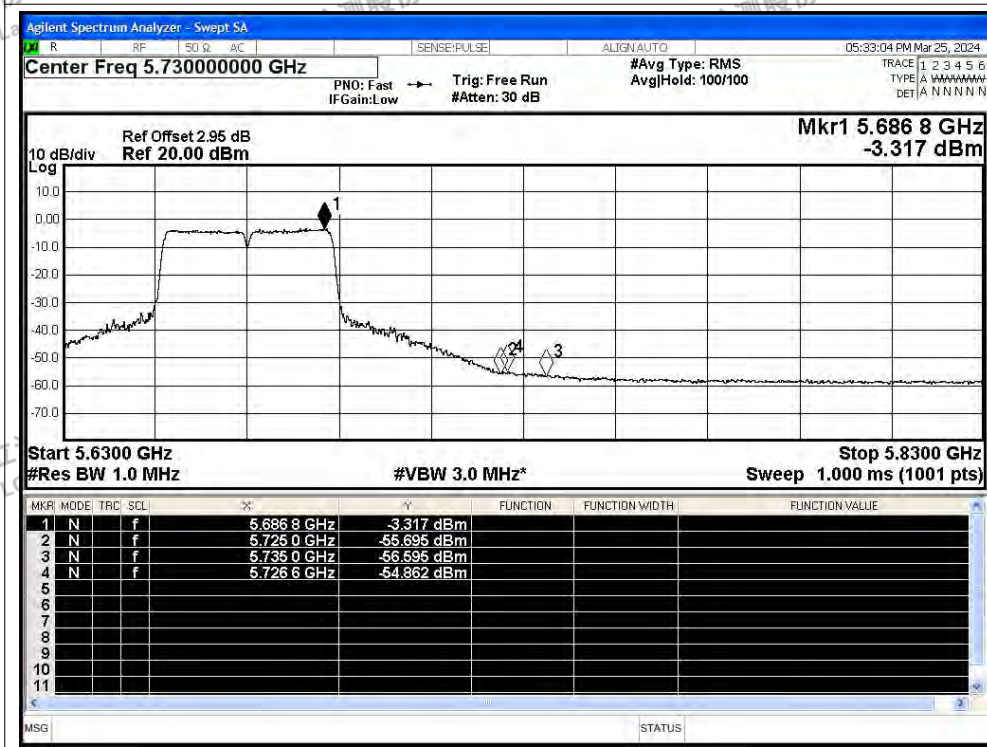
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## Restrict Band NVNT ac40 5670MHz Peak



## Restrict Band NVNT ac40 5670MHz Average



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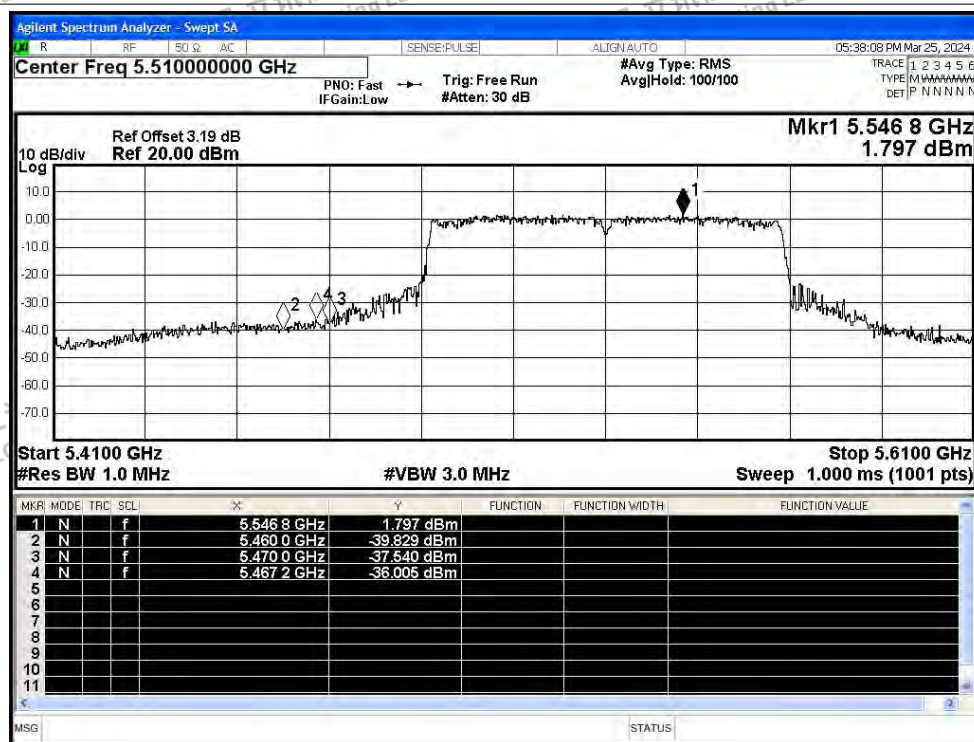
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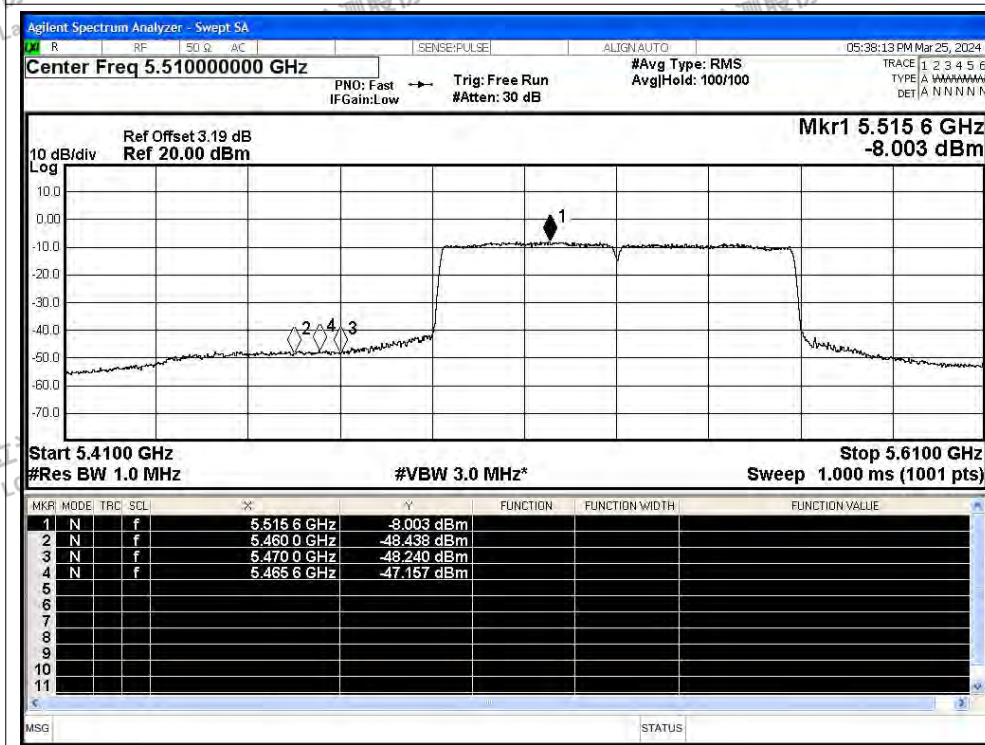
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## Restrict Band NVNT ac80 5530MHz Peak



## Restrict Band NVNT ac80 5530MHz Average



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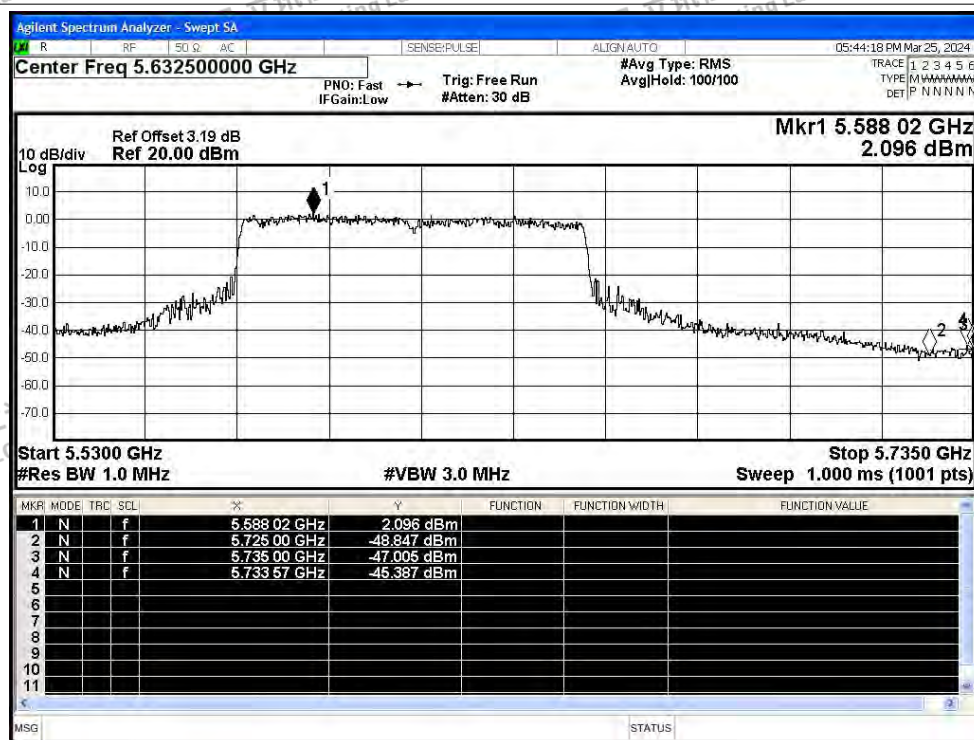
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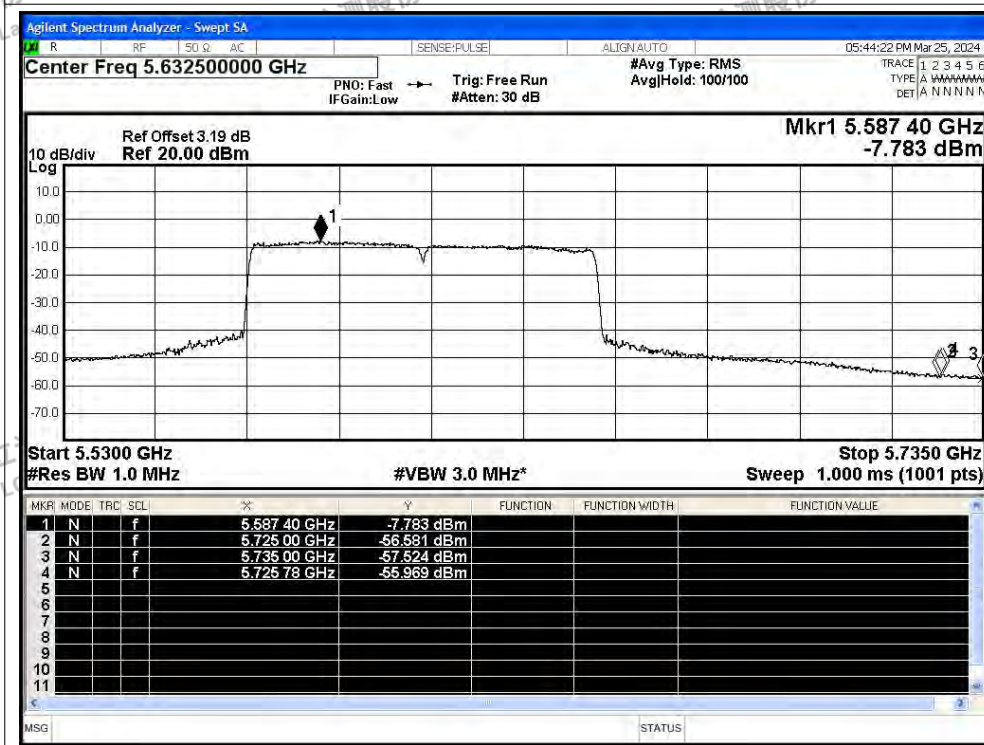
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## Restrict Band NVNT ac80 5610MHz Peak



## Restrict Band NVNT ac80 5610MHz Average



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## F.5 Frequency Stability

| Condition | Mode | Frequency<br>(MHz) | Antenna | Measured Frequency<br>(MHz) | Frequency Error<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Verdict |
|-----------|------|--------------------|---------|-----------------------------|-------------------------|--------------------|----------------|---------|
| NVNT      | ac20 | 5500               | Ant1    | 5499.98                     | -20000                  | -3.64              | 25             | Pass    |
| NVNT      | ac20 | 5580               | Ant1    | 5579.98                     | -20000                  | -3.58              | 25             | Pass    |
| NVNT      | ac20 | 5700               | Ant1    | 5699.98                     | -20000                  | -3.51              | 25             | Pass    |
| NVNT      | ac40 | 5510               | Ant1    | 5510                        | 0                       | 0                  | 25             | Pass    |
| NVNT      | ac40 | 5550               | Ant1    | 5550                        | 0                       | 0                  | 25             | Pass    |
| NVNT      | ac40 | 5670               | Ant1    | 5670                        | 0                       | 0                  | 25             | Pass    |
| NVNT      | ac80 | 5530               | Ant1    | 5530                        | 0                       | 0                  | 25             | Pass    |
| NVNT      | ac80 | 5610               | Ant1    | 5610                        | 0                       | 0                  | 25             | Pass    |

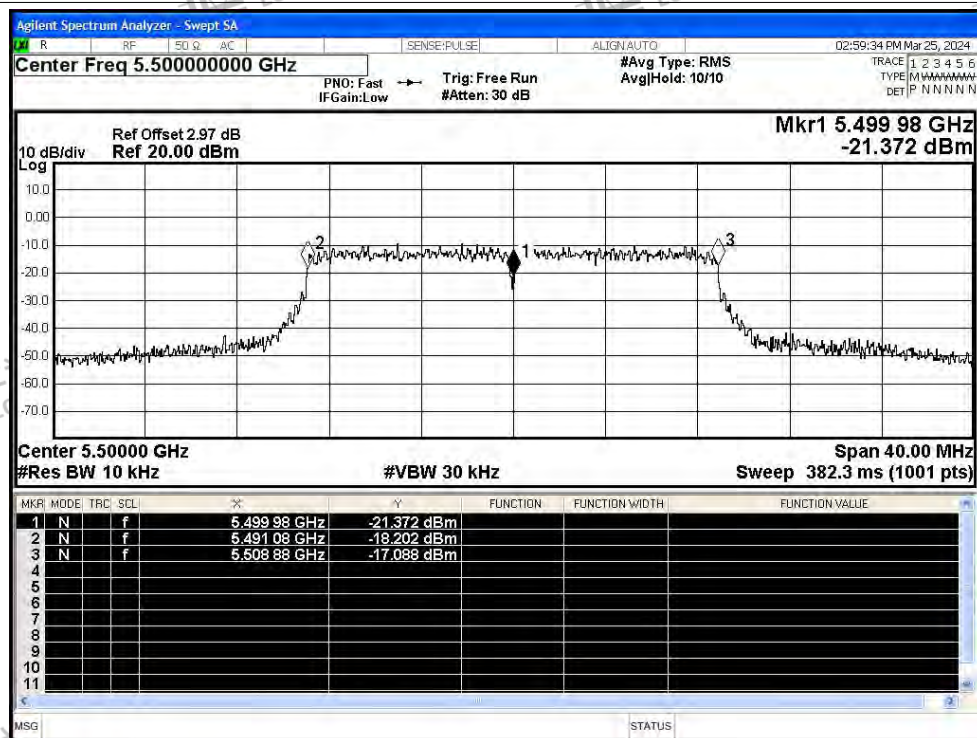


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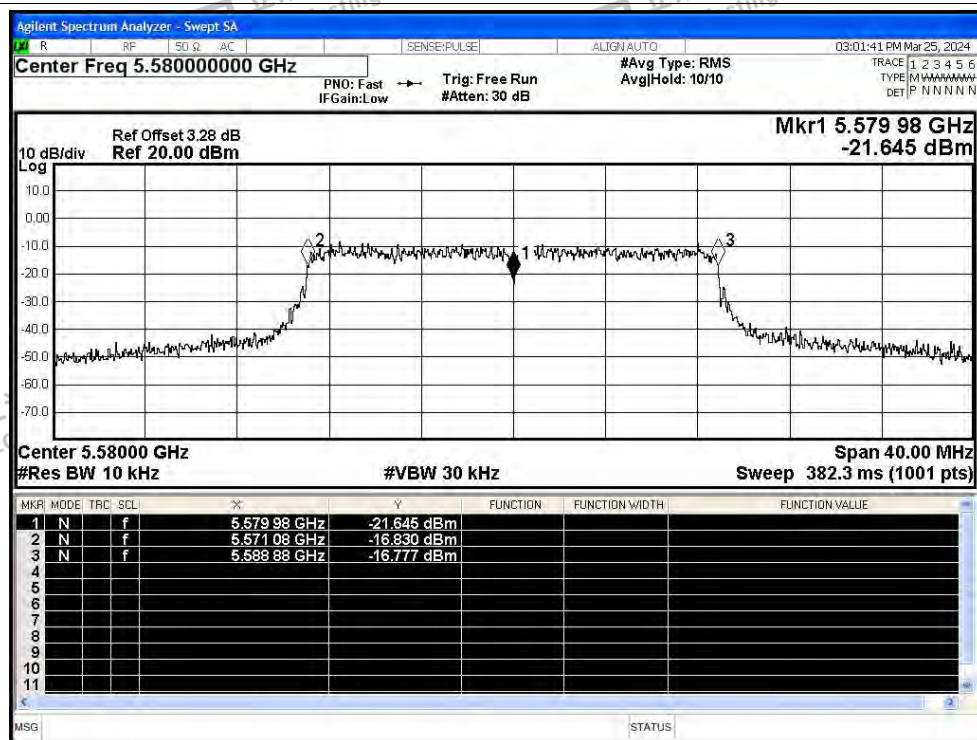


## Test Graphs

## Freq. Stability NVNT ac20 5500MHz Ant1



## Freq. Stability NVNT ac20 5580MHz Ant1



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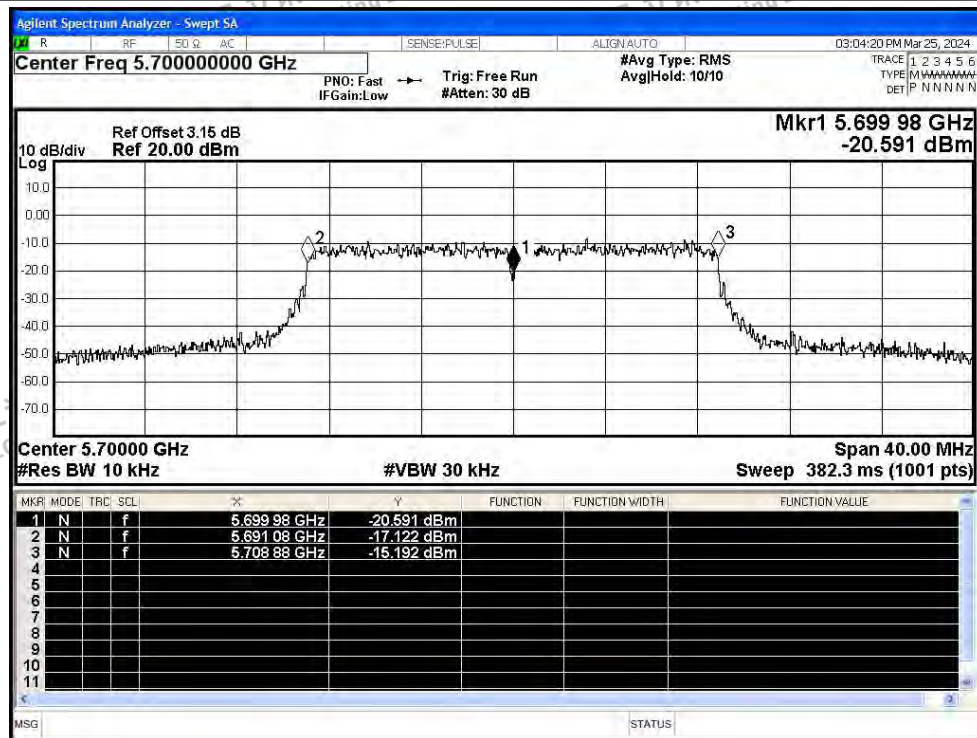
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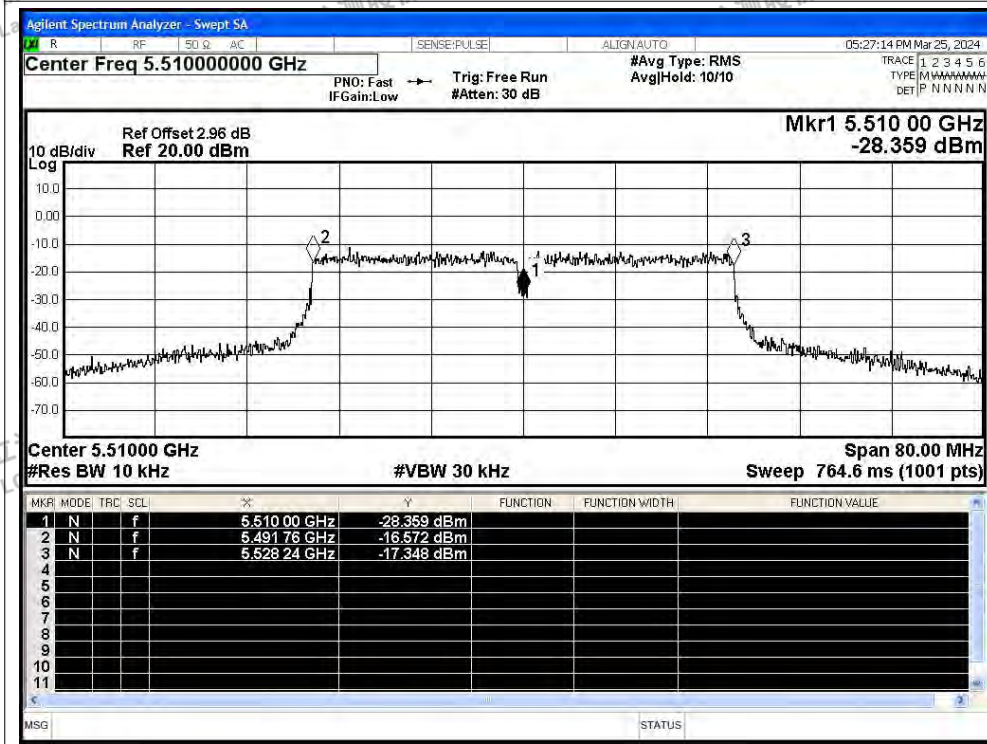
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## Freq. Stability NVNT ac20 5700MHz Ant1

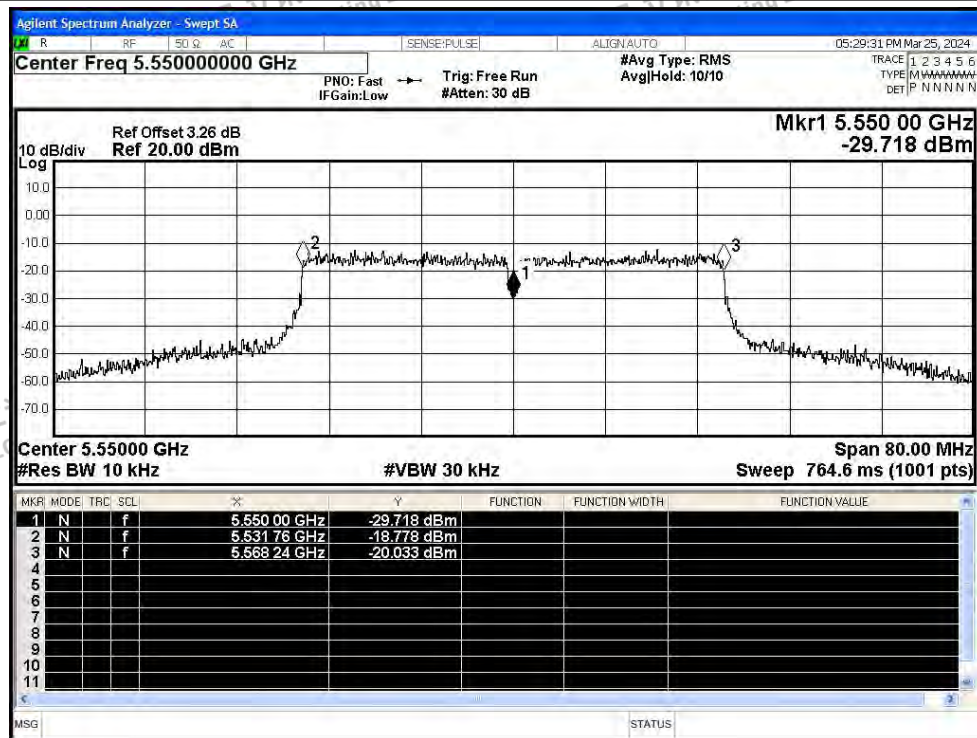


## Freq. Stability NVNT ac40 5510MHz Ant1

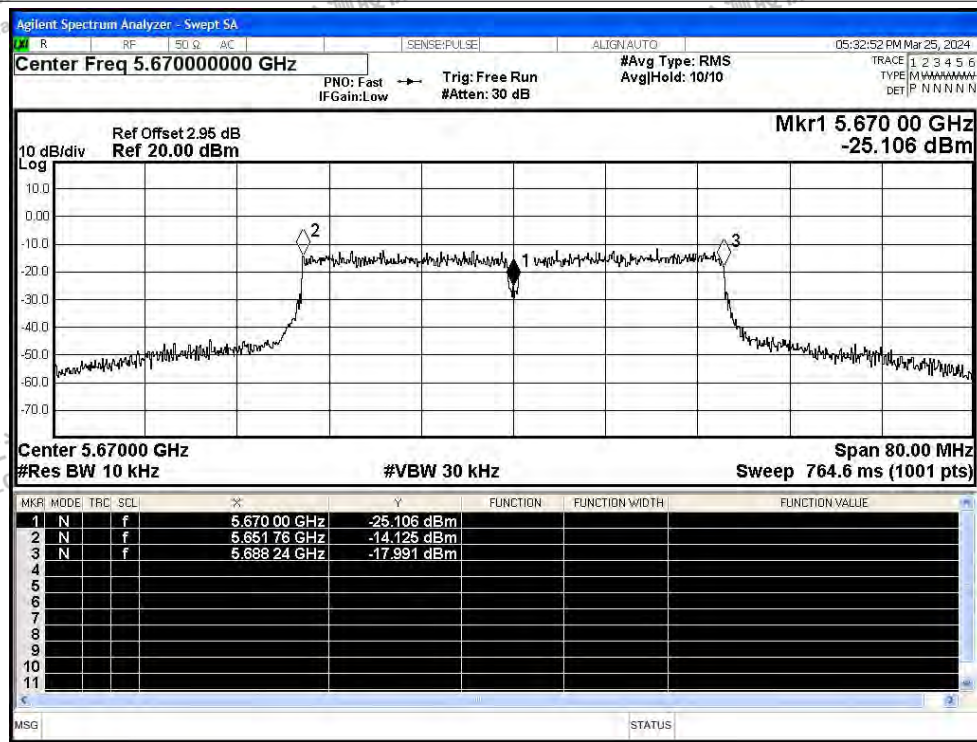




## Freq. Stability NVNT ac40 5550MHz Ant1

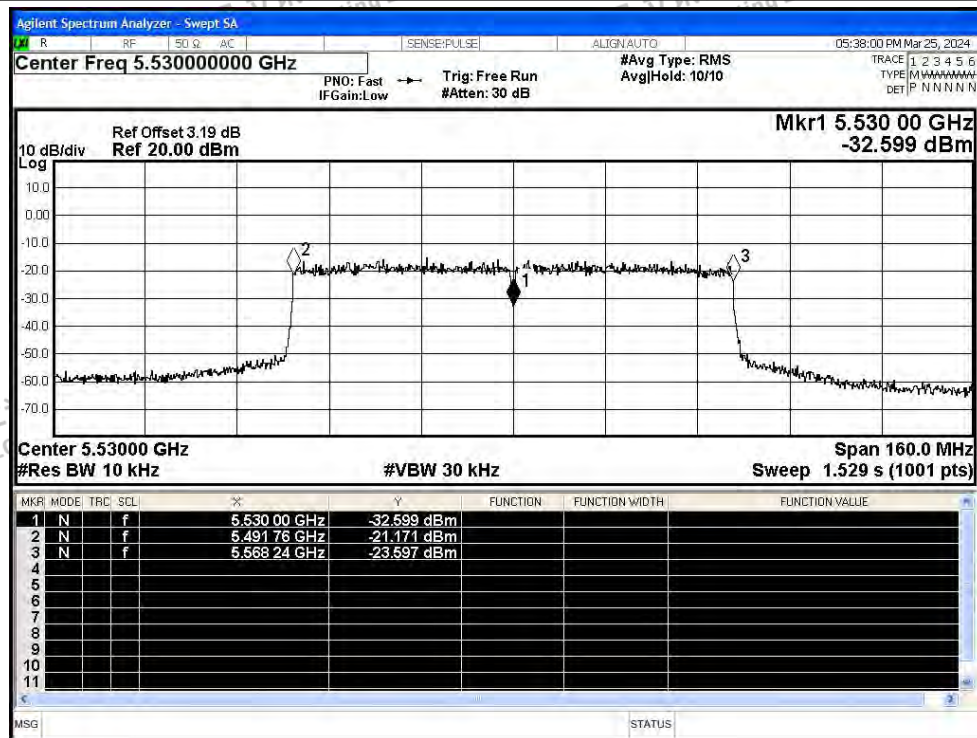


## Freq. Stability NVNT ac40 5670MHz Ant1

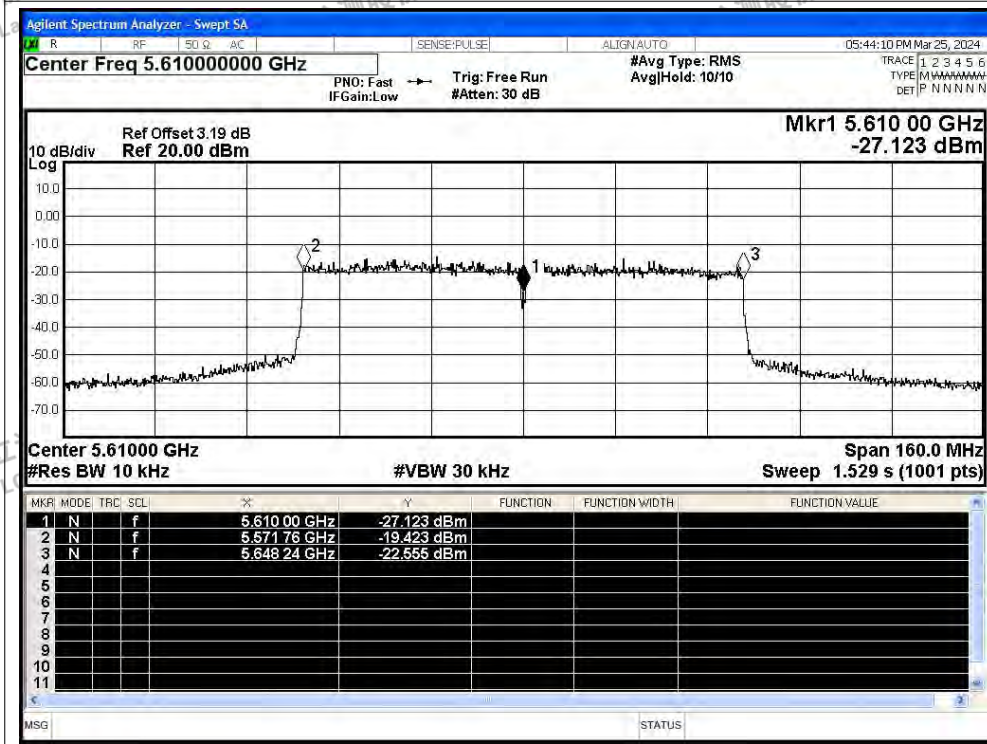




## Freq. Stability NVNT ac80 5530MHz Ant1



## Freq. Stability NVNT ac80 5610MHz Ant1



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| Condition | Mode | Frequency<br>(MHz) | Antenna | Measured Frequency<br>(MHz) | Frequency Error<br>(Hz) | Deviation<br>(ppm) | Limit<br>(ppm) | Verdict |
|-----------|------|--------------------|---------|-----------------------------|-------------------------|--------------------|----------------|---------|
| NVNT      | ac20 | 5500               | Ant2    | 5500                        | 0                       | 0                  | 25             | Pass    |
| NVNT      | ac20 | 5580               | Ant2    | 5579.96                     | -40000                  | -7.17              | 25             | Pass    |
| NVNT      | ac20 | 5700               | Ant2    | 5699.96                     | -40000                  | -7.02              | 25             | Pass    |
| NVNT      | ac40 | 5510               | Ant2    | 5510                        | 0                       | 0                  | 25             | Pass    |
| NVNT      | ac40 | 5550               | Ant2    | 5550                        | 0                       | 0                  | 25             | Pass    |
| NVNT      | ac40 | 5670               | Ant2    | 5670                        | 0                       | 0                  | 25             | Pass    |
| NVNT      | ac80 | 5530               | Ant2    | 5530                        | 0                       | 0                  | 25             | Pass    |
| NVNT      | ac80 | 5610               | Ant2    | 5610                        | 0                       | 0                  | 25             | Pass    |

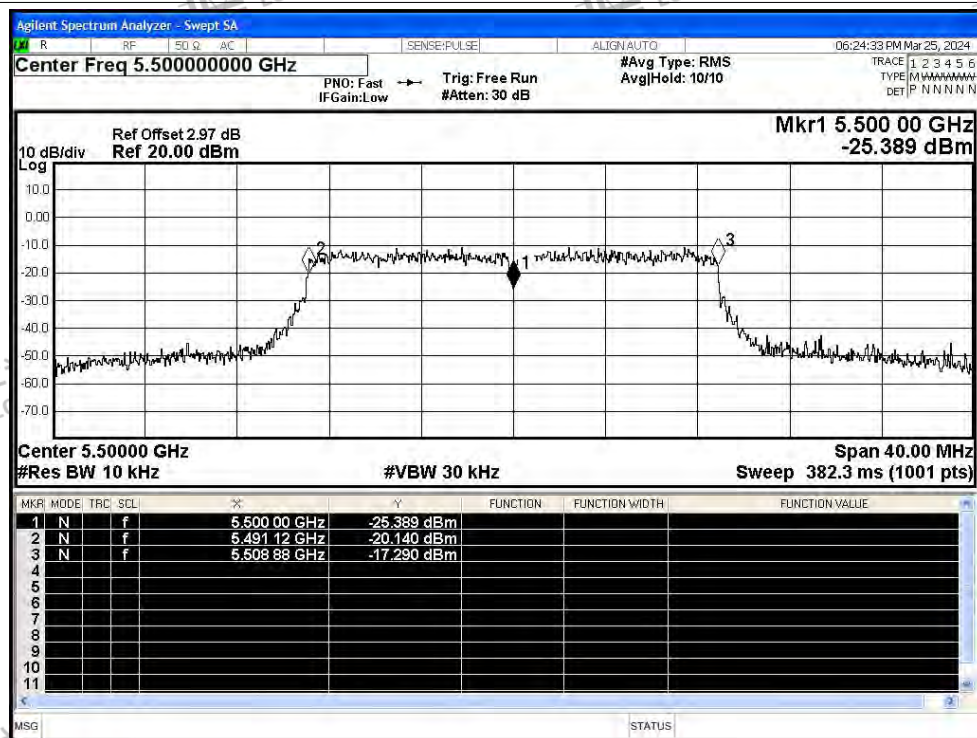


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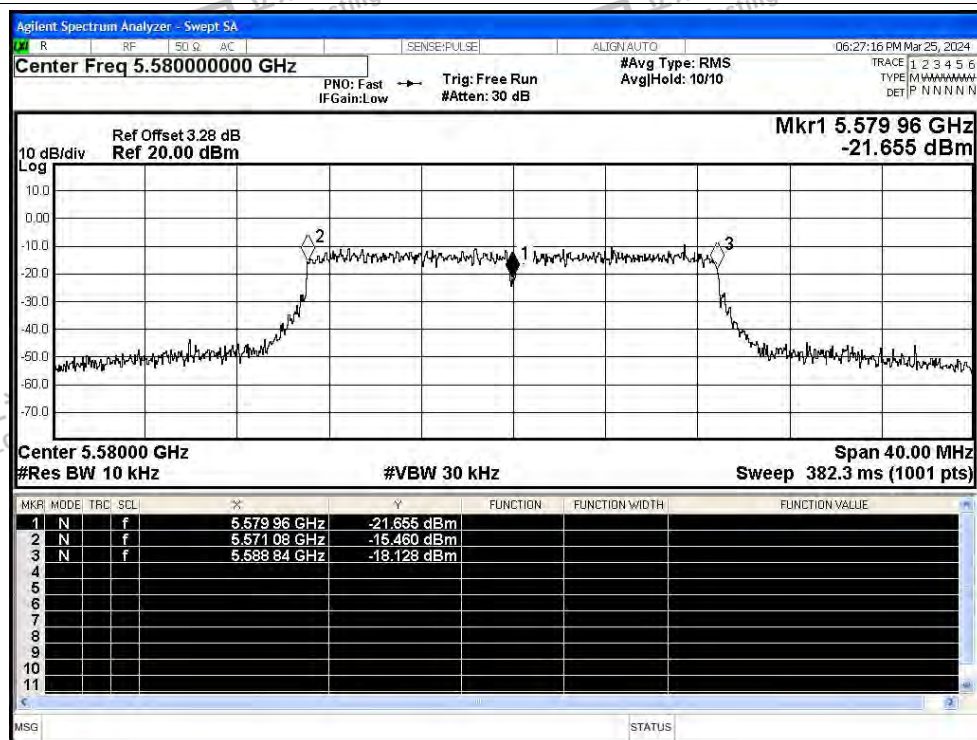


## Test Graphs

## Freq. Stability NVNT ac20 5500MHz Ant2



## Freq. Stability NVNT ac20 5580MHz Ant2



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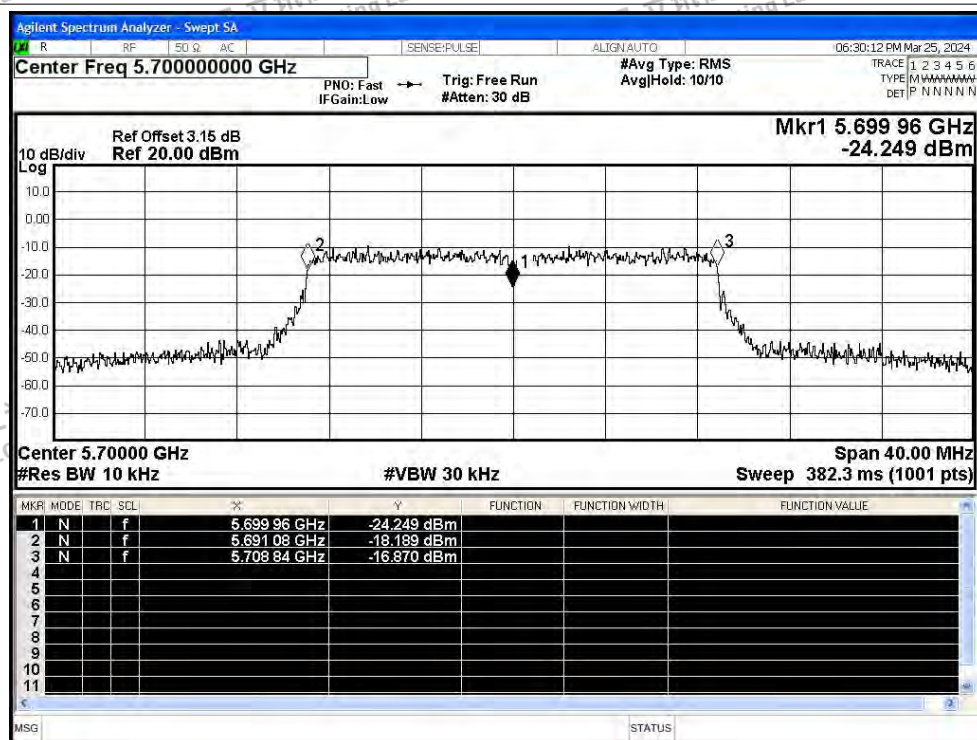
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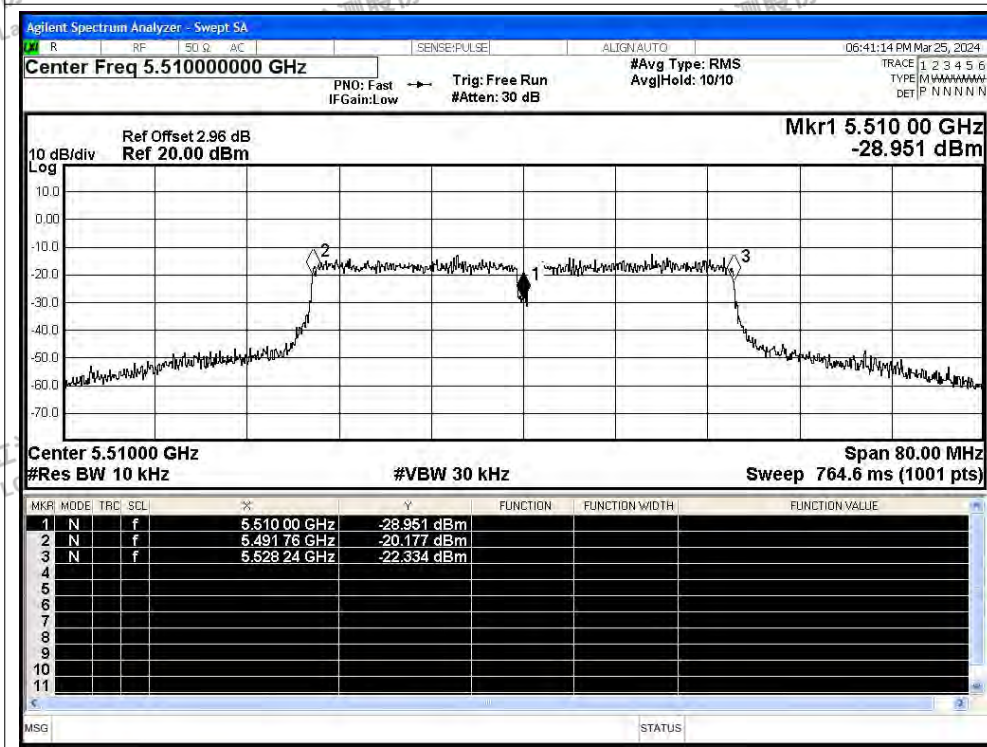
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## Freq. Stability NVNT ac20 5700MHz Ant2



## Freq. Stability NVNT ac40 5510MHz Ant2



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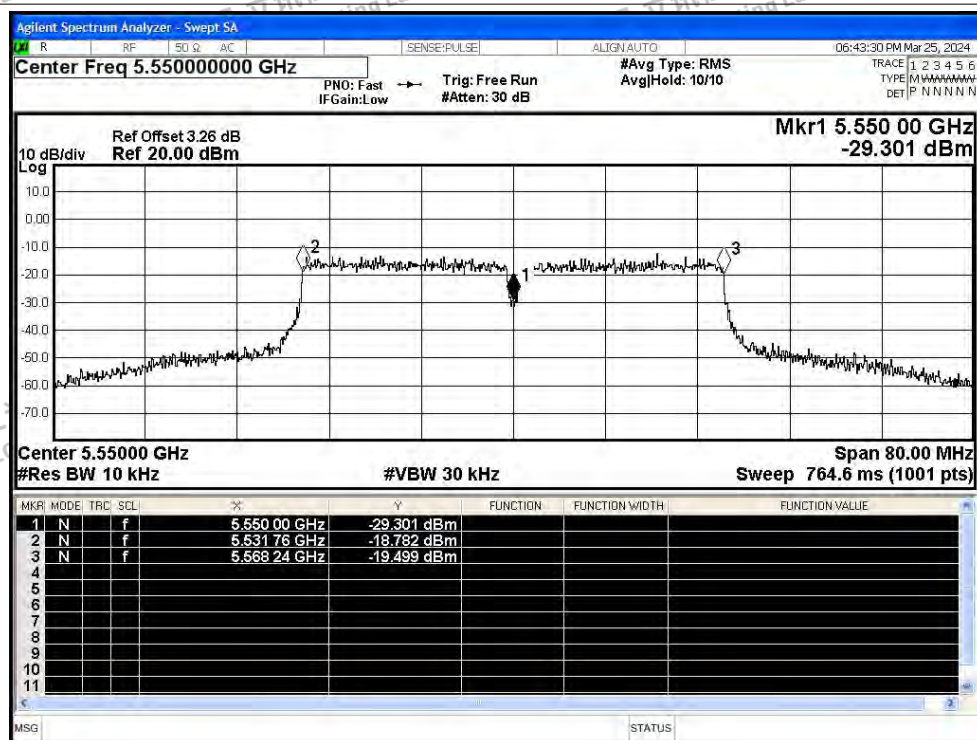
Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

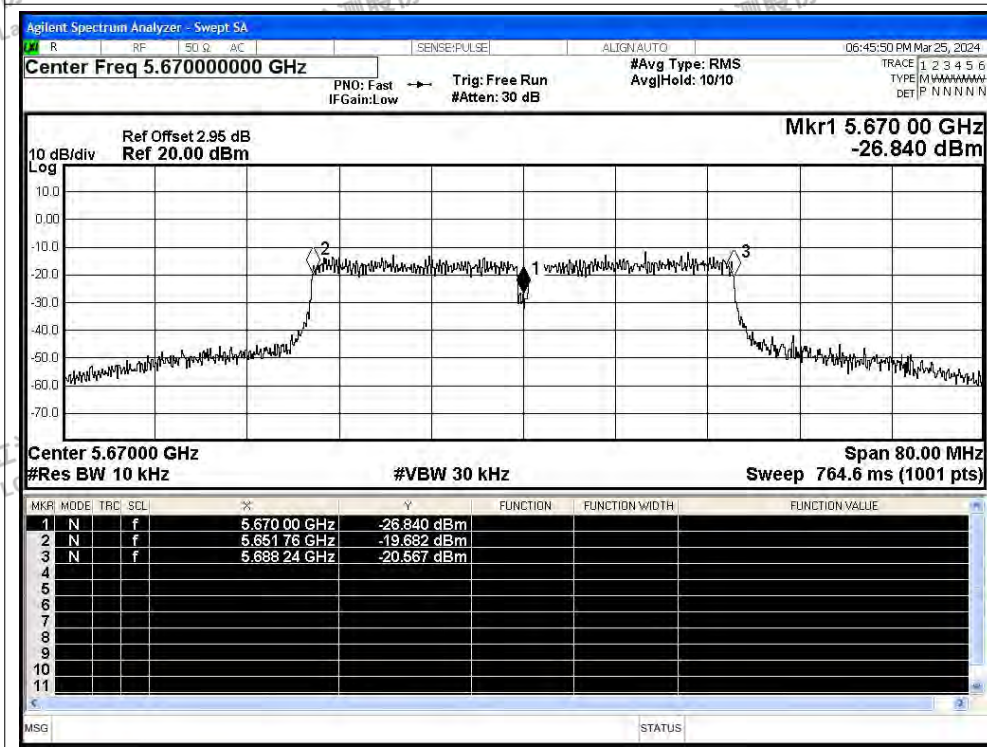
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## Freq. Stability NVNT ac40 5550MHz Ant2



## Freq. Stability NVNT ac40 5670MHz Ant2



Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 101, 201 Bldg A &amp; 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China

Tel: +(86) 0755-82591330 | E-mail: webmaster@lcs-cert.com | Web: www.lcs-cert.com

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