

# ANNEX 2

## FCC ID: 2BLM9-WR1800N

Applicant: Shenzhen Maiyuan Industry

Address: Aohua Business Building, Longhua District, Shenzhen City, Guangdong Province, China

Manufacturer: Shenzhen Maiyuan Industry

Address: Aohua Business Building, Longhua District, Shenzhen City, Guangdong Province, China

EUT: Router

Trade Mark: N/A

Model Number: MY-WR1800N

Date of Receipt: Sep. 12, 2024

Test Date: Sep. 12, 2024 - Sep. 27, 2024

Date of Report: Sep. 27, 2024

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

Applicable Standards: FCC PART 15 E 15.407  
ANSI C63.10:2013

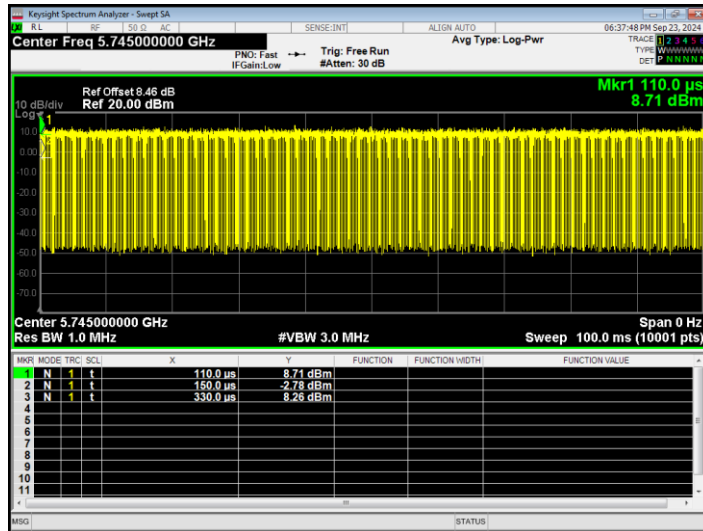
Test Result: Pass

## Duty Cycle

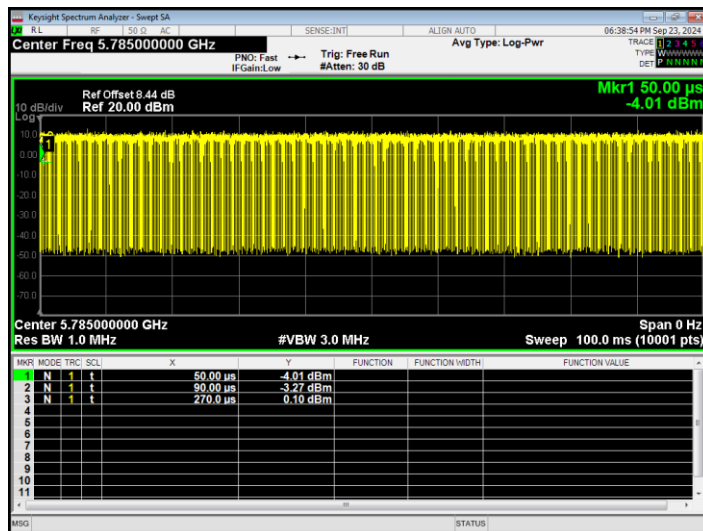
| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) |
|-----------|------|-----------------|---------|----------------|------------------------|
| NVNT      | a    | 5745            | Ant1    | 81.82          | 0.87                   |
| NVNT      | a    | 5785            | Ant1    | 81.82          | 0.87                   |
| NVNT      | a    | 5825            | Ant1    | 81.82          | 0.87                   |
| NVNT      | ac20 | 5745            | Ant1    | 93.06          | 0.31                   |
| NVNT      | ac20 | 5785            | Ant1    | 93.15          | 0.31                   |
| NVNT      | ac20 | 5825            | Ant1    | 94.44          | 0.25                   |
| NVNT      | ac40 | 5755            | Ant1    | 89.74          | 0.47                   |
| NVNT      | ac40 | 5795            | Ant1    | 89.74          | 0.47                   |
| NVNT      | ac80 | 5775            | Ant1    | 78.26          | 1.06                   |
| NVNT      | ax20 | 5745            | Ant1    | 92.16          | 0.35                   |
| NVNT      | ax20 | 5785            | Ant1    | 92             | 0.36                   |
| NVNT      | ax20 | 5825            | Ant1    | 92.16          | 0.35                   |
| NVNT      | ax40 | 5755            | Ant1    | 82.76          | 0.82                   |
| NVNT      | ax40 | 5795            | Ant1    | 85.71          | 0.67                   |
| NVNT      | ax80 | 5775            | Ant1    | 72.22          | 1.41                   |
| NVNT      | n20  | 5745            | Ant1    | 97.01          | 0.13                   |
| NVNT      | n20  | 5785            | Ant1    | 96.3           | 0.16                   |
| NVNT      | n20  | 5825            | Ant1    | 96.3           | 0.16                   |
| NVNT      | n40  | 5755            | Ant1    | 94.2           | 0.26                   |
| NVNT      | n40  | 5795            | Ant1    | 94.2           | 0.26                   |

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) |
|-----------|------|-----------------|---------|----------------|------------------------|
| NVNT      | a    | 5745            | Ant2    | 77.27          | 1.12                   |
| NVNT      | a    | 5785            | Ant2    | 81.82          | 0.87                   |
| NVNT      | a    | 5825            | Ant2    | 81.82          | 0.87                   |
| NVNT      | ac20 | 5745            | Ant2    | 93.15          | 0.31                   |
| NVNT      | ac20 | 5785            | Ant2    | 93.06          | 0.31                   |
| NVNT      | ac20 | 5825            | Ant2    | 94.44          | 0.25                   |
| NVNT      | ac40 | 5755            | Ant2    | 89.74          | 0.47                   |
| NVNT      | ac40 | 5795            | Ant2    | 89.74          | 0.47                   |
| NVNT      | ac80 | 5775            | Ant2    | 78.26          | 1.06                   |
| NVNT      | ax20 | 5745            | Ant2    | 90.2           | 0.45                   |
| NVNT      | ax20 | 5785            | Ant2    | 90.2           | 0.45                   |
| NVNT      | ax20 | 5825            | Ant2    | 92.16          | 0.35                   |
| NVNT      | ax40 | 5755            | Ant2    | 86.21          | 0.64                   |
| NVNT      | ax40 | 5795            | Ant2    | 82.76          | 0.82                   |
| NVNT      | ax80 | 5775            | Ant2    | 77.78          | 1.09                   |
| NVNT      | n20  | 5745            | Ant2    | 97.01          | 0.13                   |
| NVNT      | n20  | 5785            | Ant2    | 96.3           | 0.16                   |
| NVNT      | n20  | 5825            | Ant2    | 97.01          | 0.13                   |
| NVNT      | n40  | 5755            | Ant2    | 94.2           | 0.26                   |
| NVNT      | n40  | 5795            | Ant2    | 92.86          | 0.32                   |

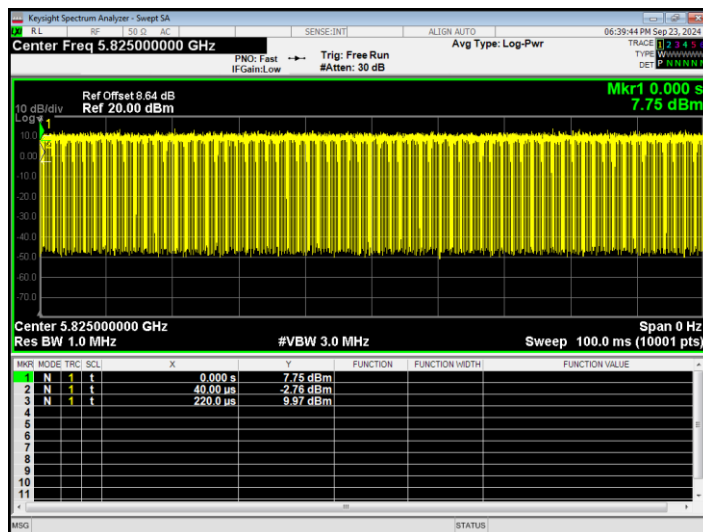
# Duty Cycle NVNT a 5745MHz Ant1



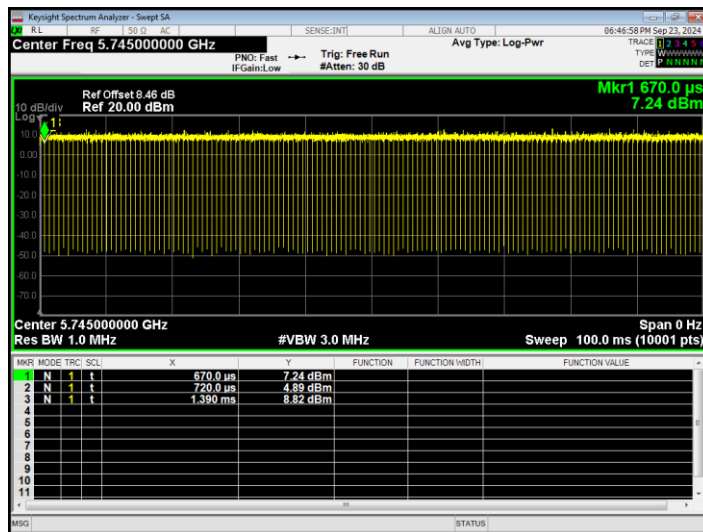
# Duty Cycle NVNT a 5785MHz Ant1



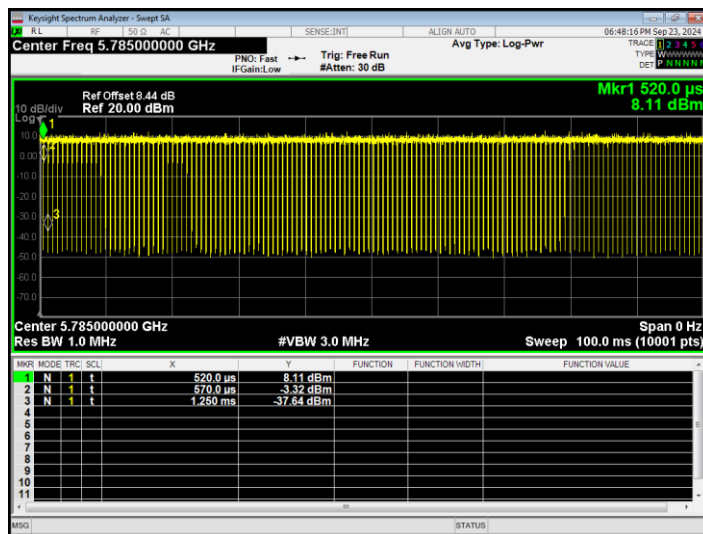
# Duty Cycle NVNT a 5825MHz Ant1



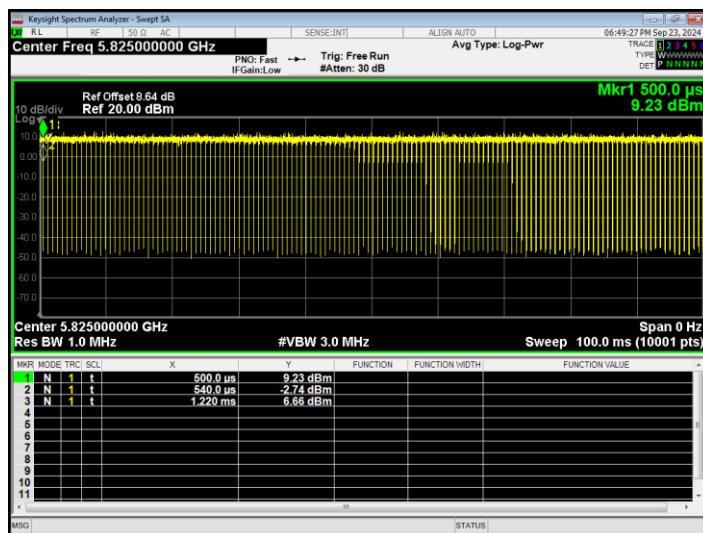
# Duty Cycle NVNT ac20 5745MHz Ant1



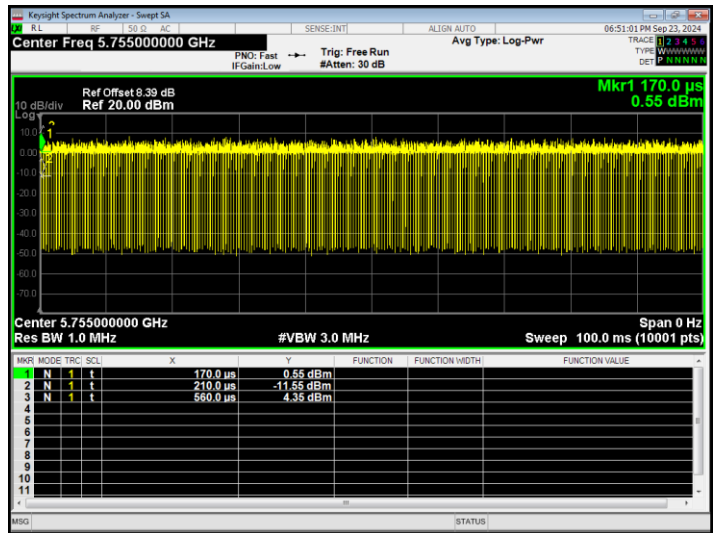
Duty Cycle NVNT ac20 5785MHz Ant1



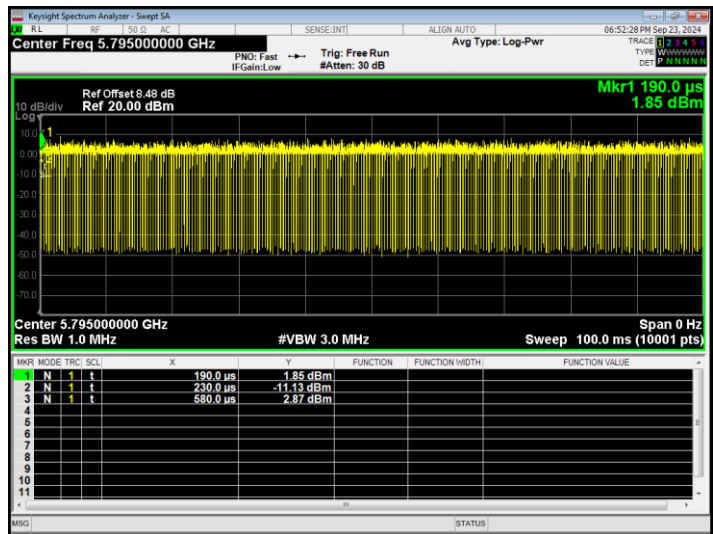
Duty Cycle NVNT ac20 5825MHz Ant1



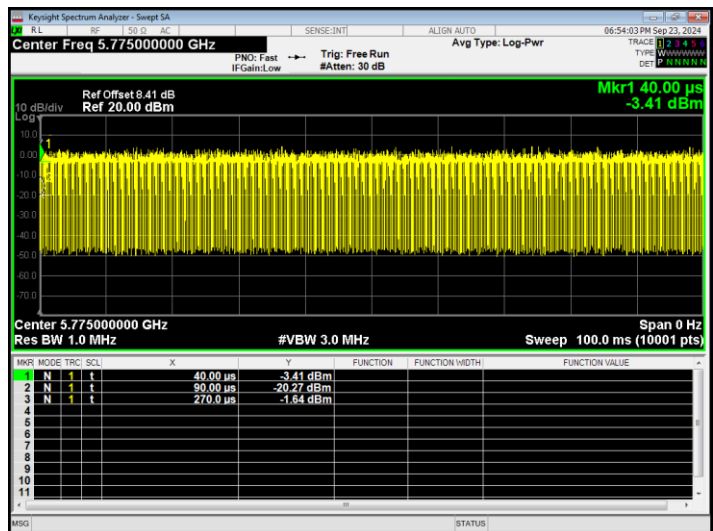
Duty Cycle NVNT ac40 5755MHz Ant1



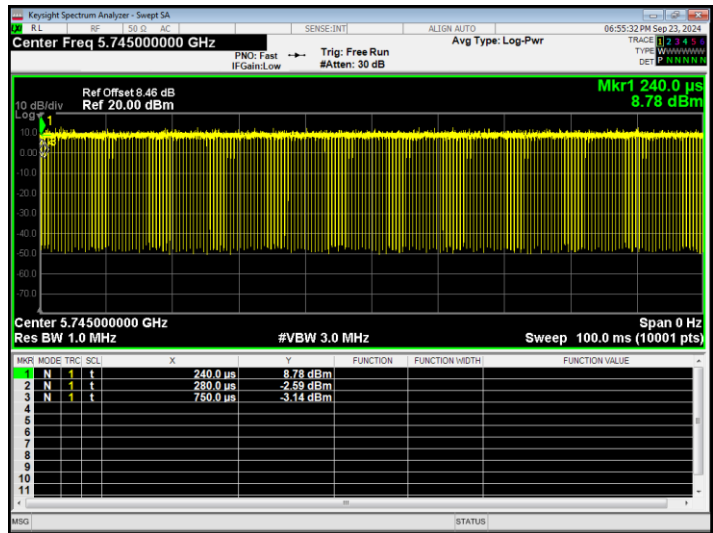
Duty Cycle NVNT ac40 5795MHz Ant1



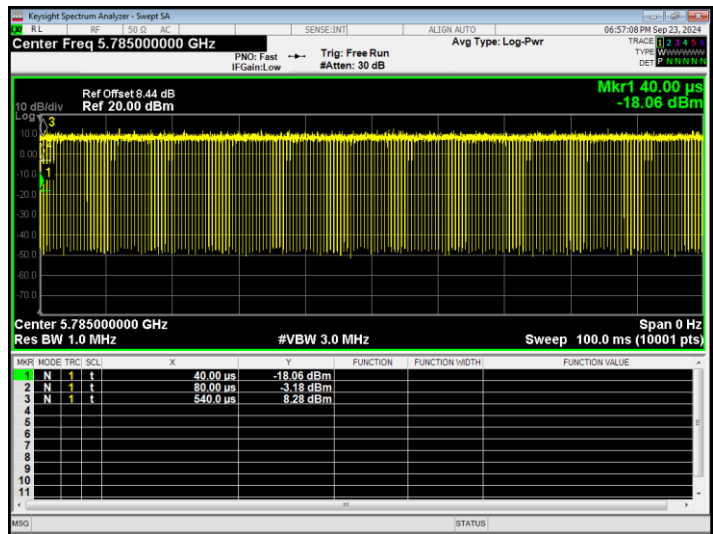
Duty Cycle NVNT ac80 5775MHz Ant1



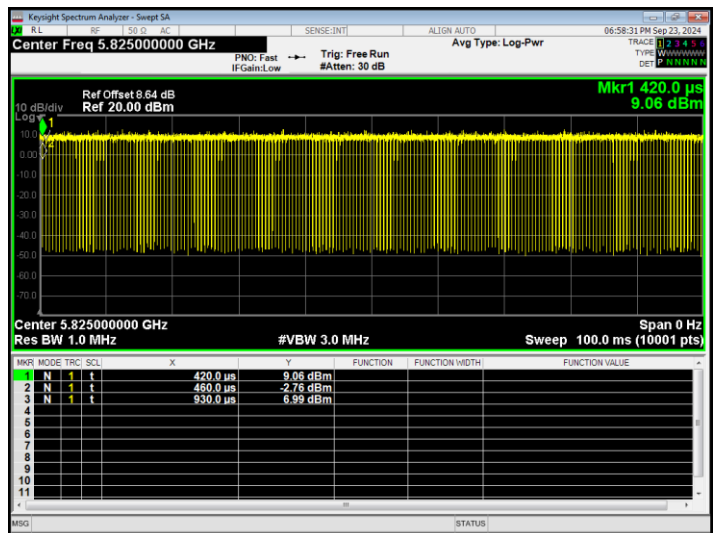
Duty Cycle NVNT ax20 5745MHz Ant1



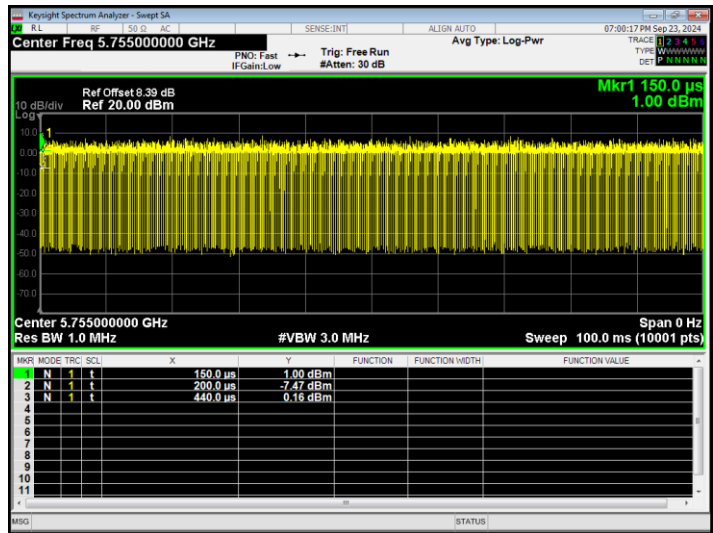
Duty Cycle NVNT ax20 5785MHz Ant1



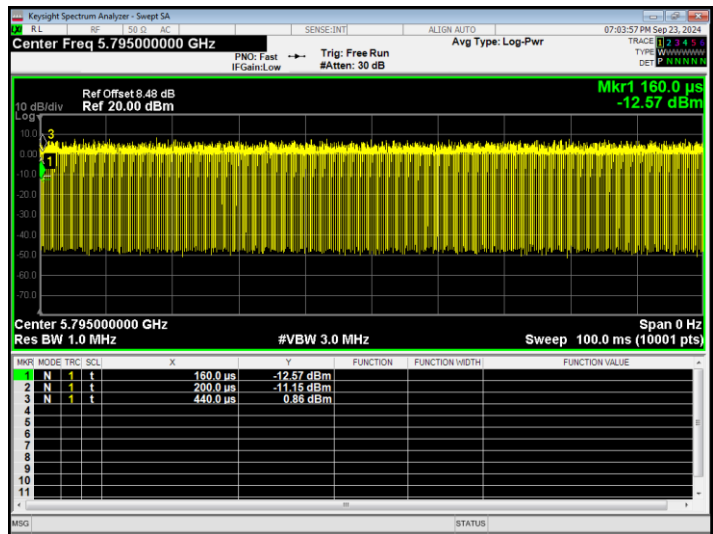
Duty Cycle NVNT ax20 5825MHz Ant1



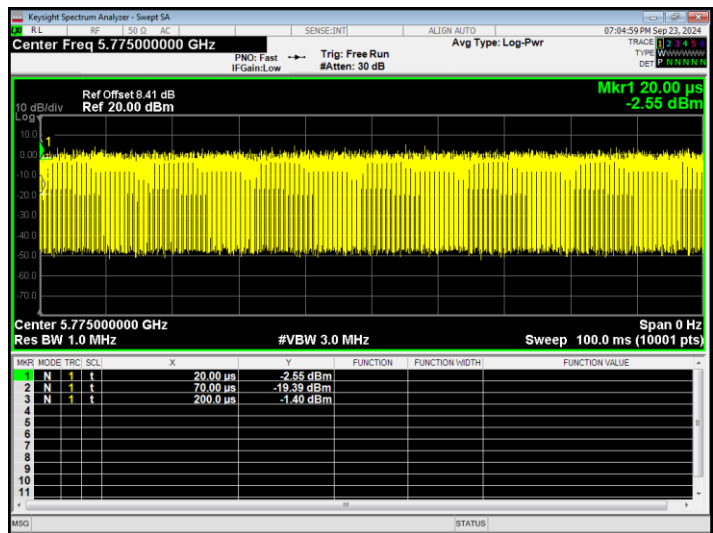
Duty Cycle NVNT ax40 5755MHz Ant1



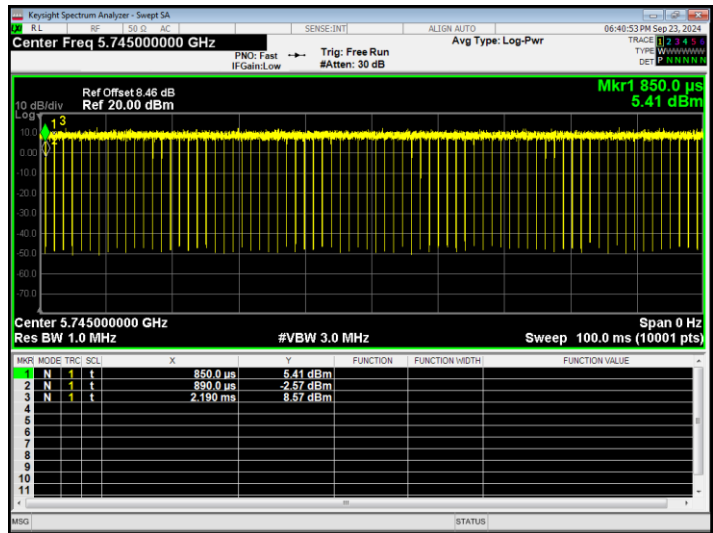
Duty Cycle NVNT ax40 5795MHz Ant1



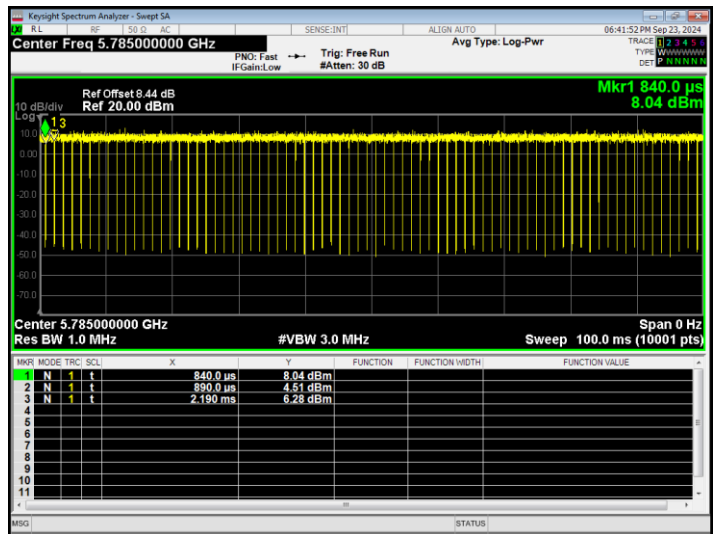
Duty Cycle NVNT ax80 5775MHz Ant1



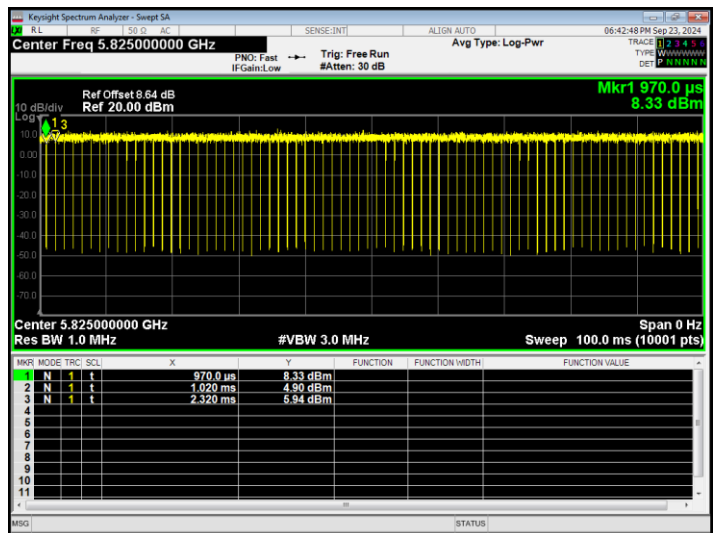
Duty Cycle NVNT n20 5745MHz Ant1



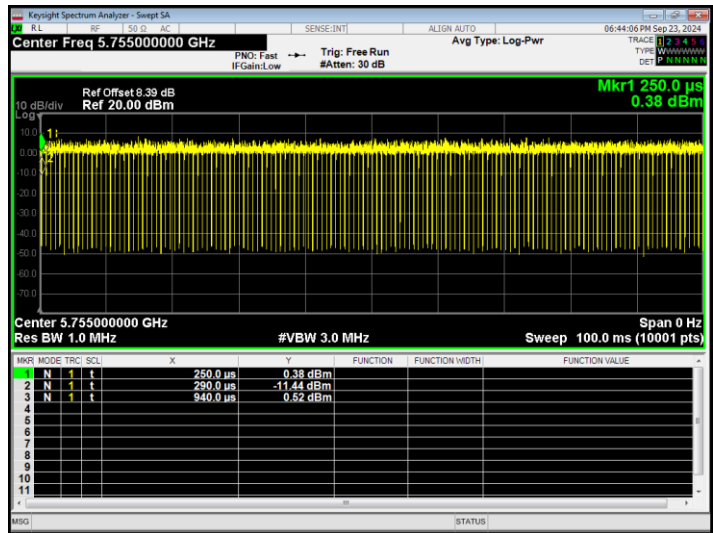
Duty Cycle NVNT n20 5785MHz Ant1



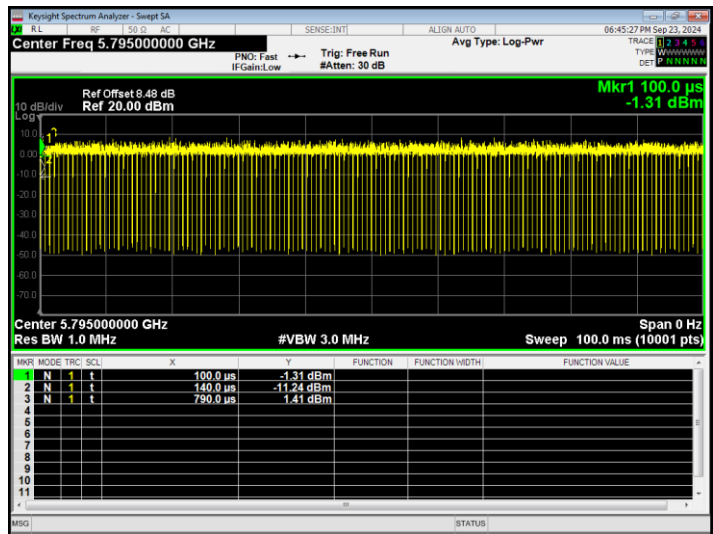
Duty Cycle NVNT n20 5825MHz Ant1



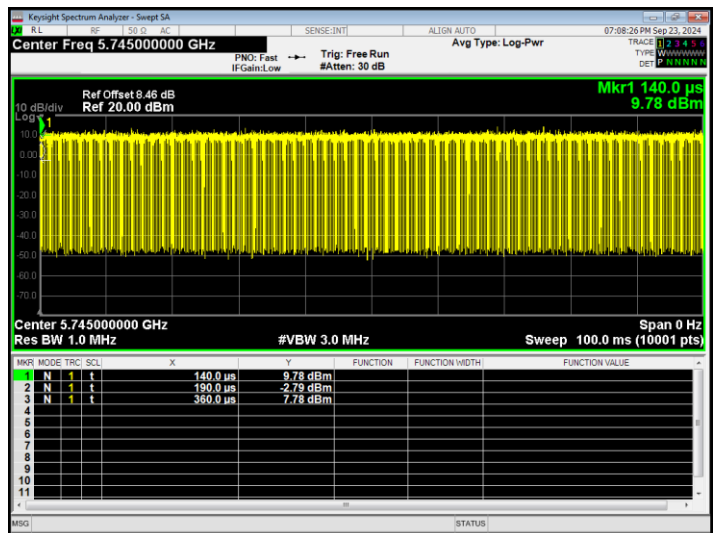
Duty Cycle NVNT n40 5755MHz Ant1



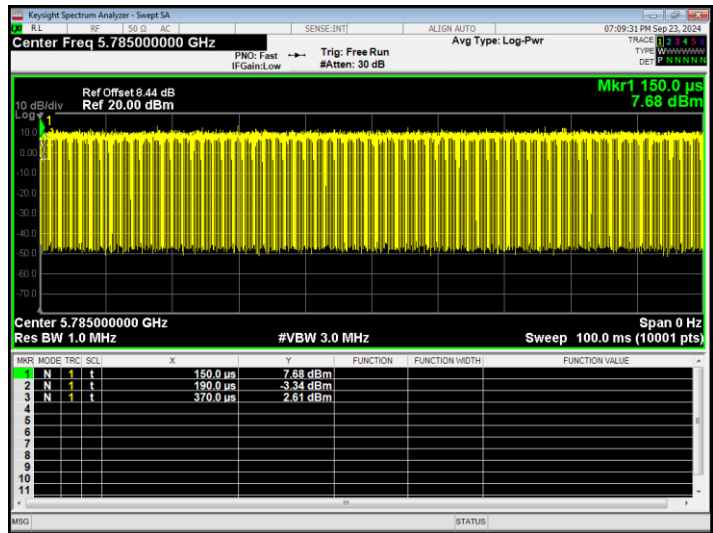
Duty Cycle NVNT n40 5795MHz Ant1



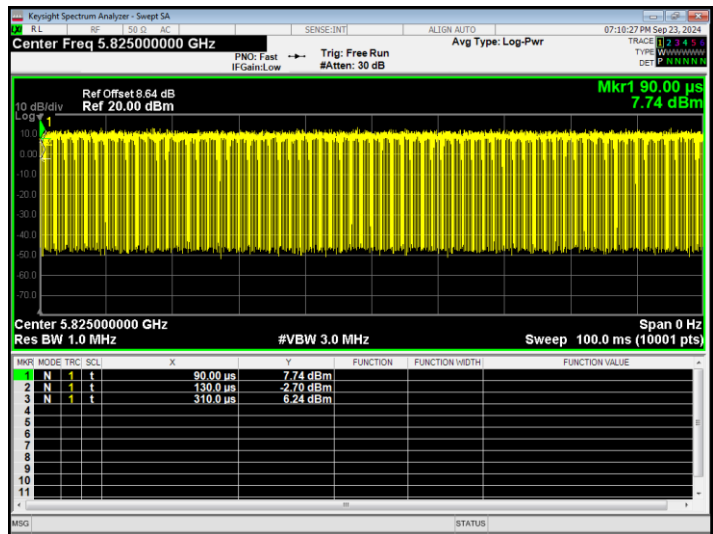
Duty Cycle NVNT a 5745MHz Ant2



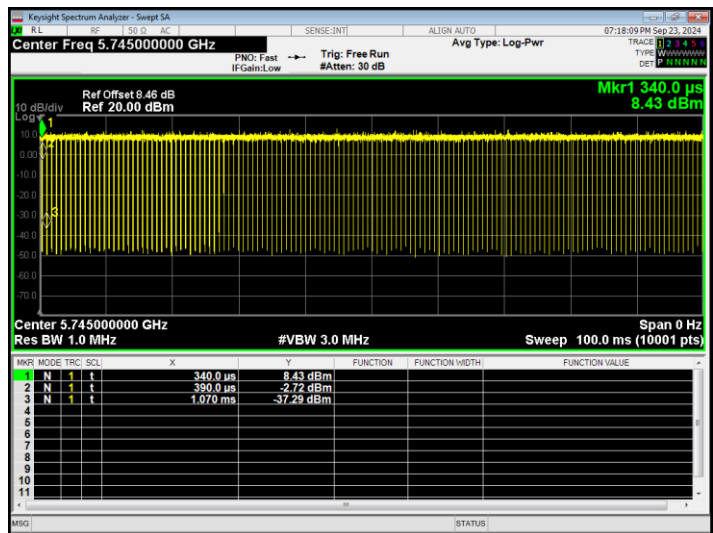
Duty Cycle NVNT a 5785MHz Ant2



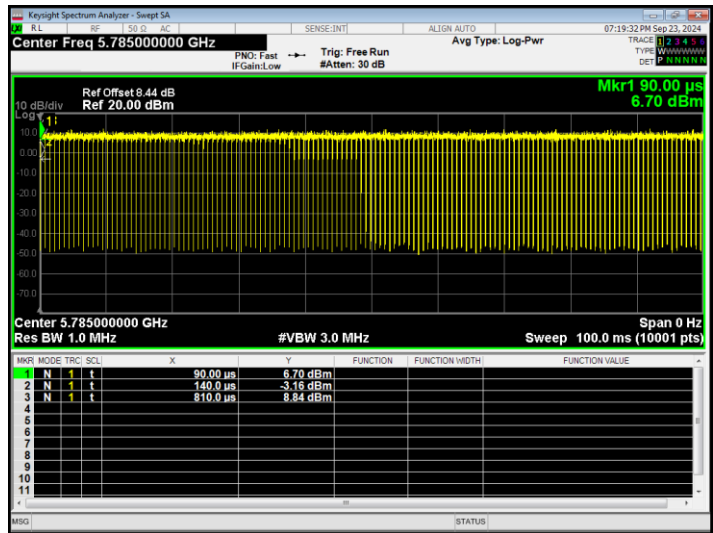
Duty Cycle NVNT a 5825MHz Ant2



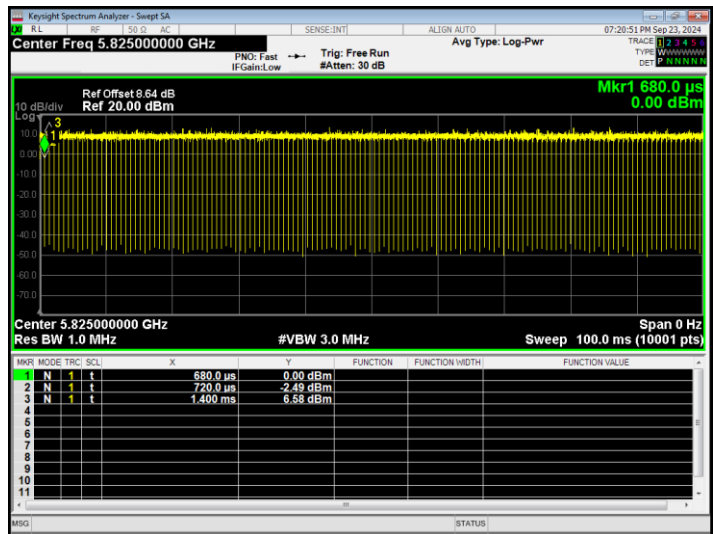
Duty Cycle NVNT ac20 5745MHz Ant2



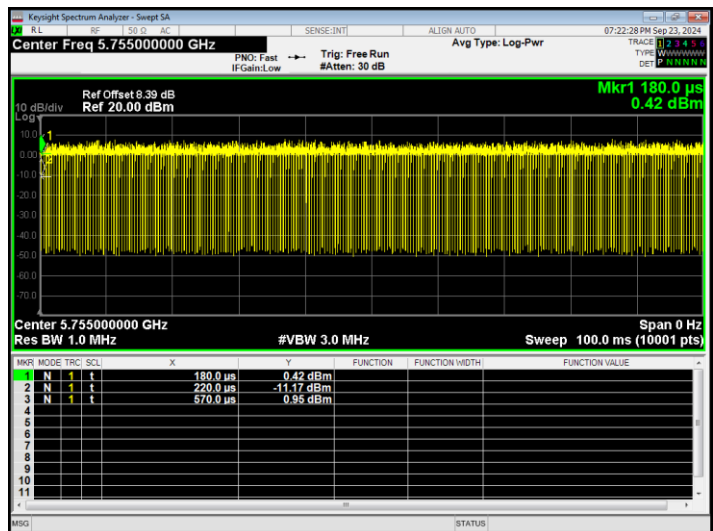
Duty Cycle NVNT ac20 5785MHz Ant2



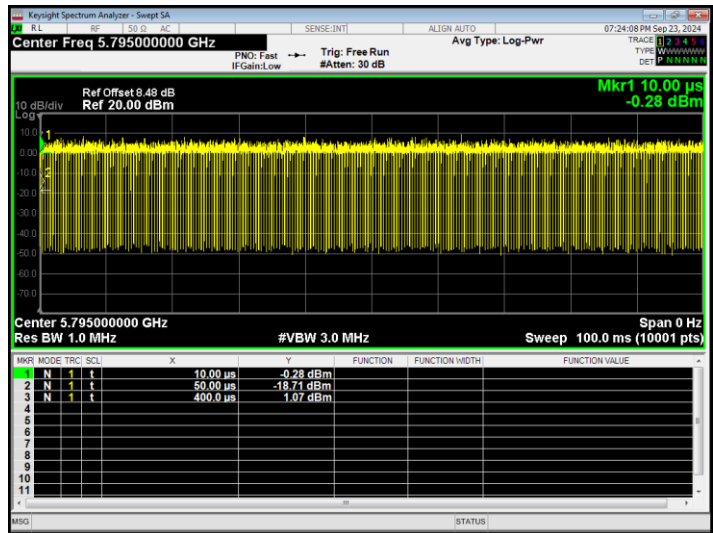
Duty Cycle NVNT ac20 5825MHz Ant2



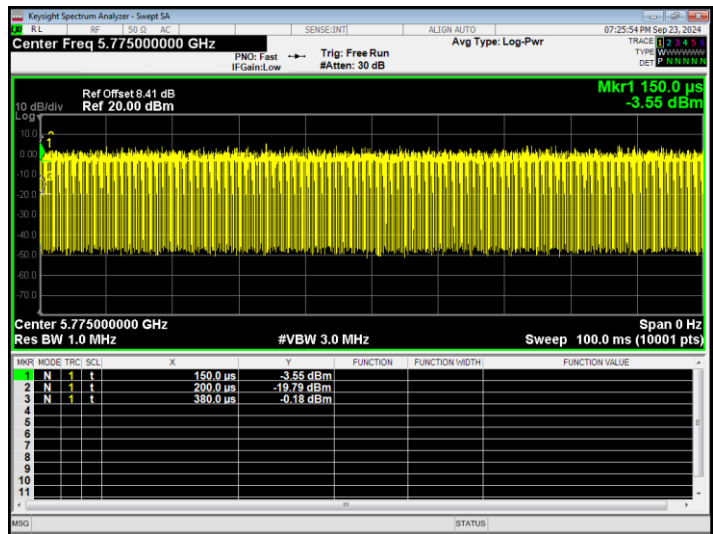
Duty Cycle NVNT ac40 5755MHz Ant2



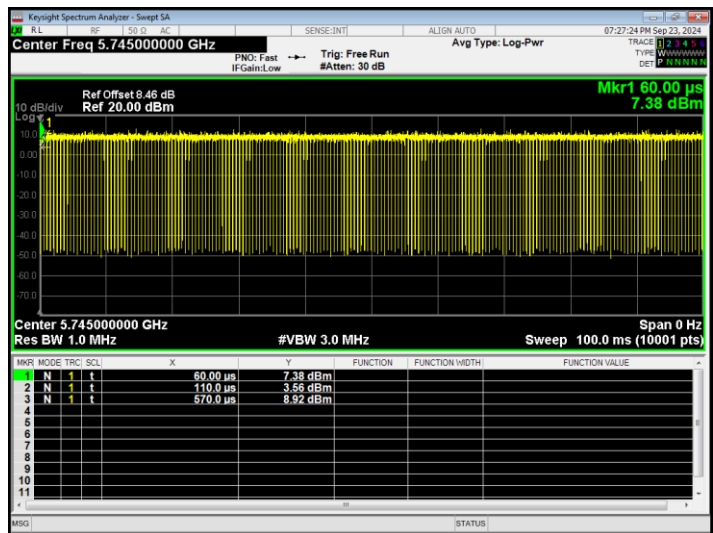
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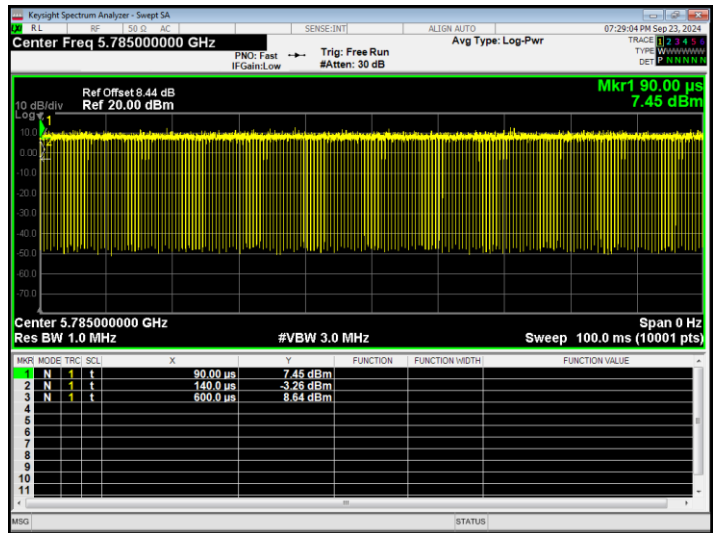
Duty Cycle NVNT ac80 5775MHz Ant2



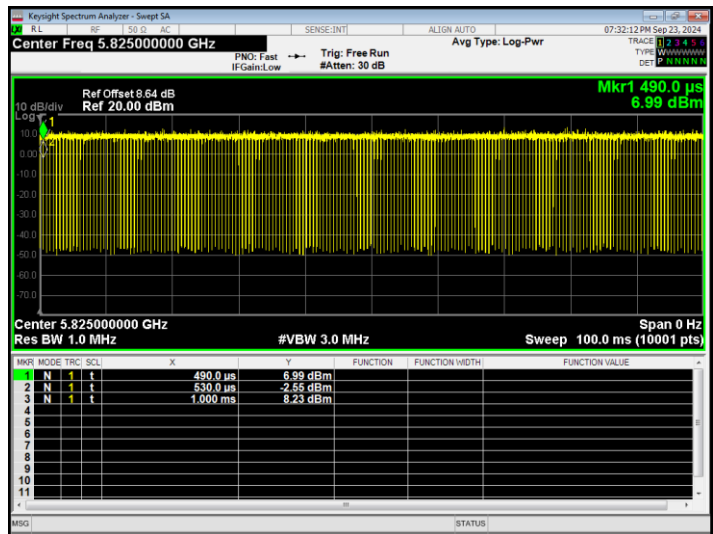
Duty Cycle NVNT ax20 5745MHz Ant2



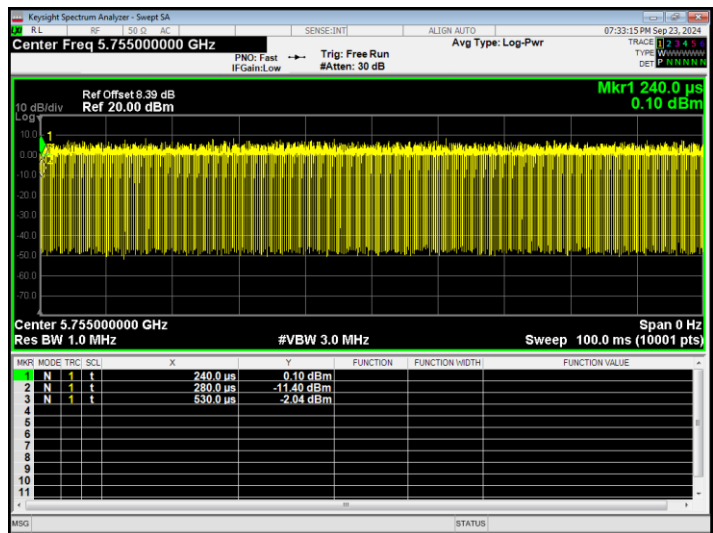
Duty Cycle NVNT ax20 5785MHz Ant2



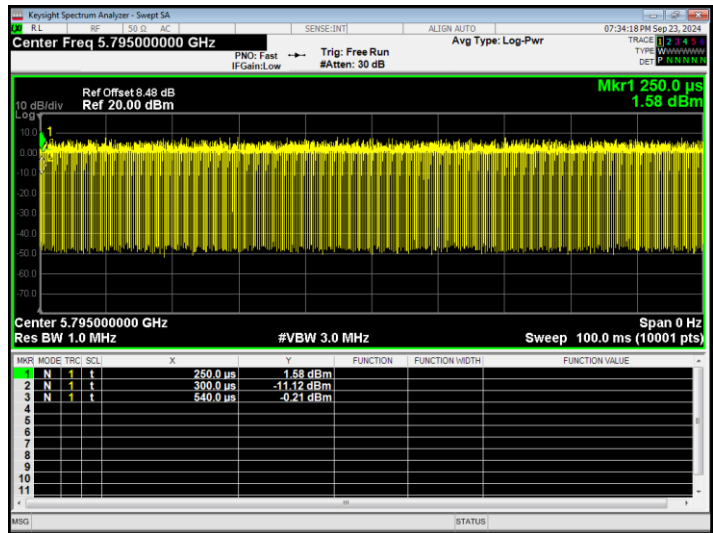
Duty Cycle NVNT ax20 5825MHz Ant2



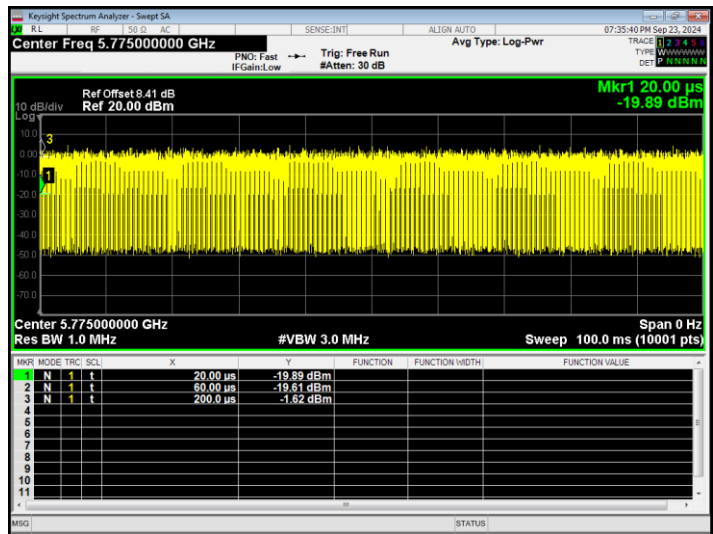
Duty Cycle NVNT ax40 5755MHz Ant2



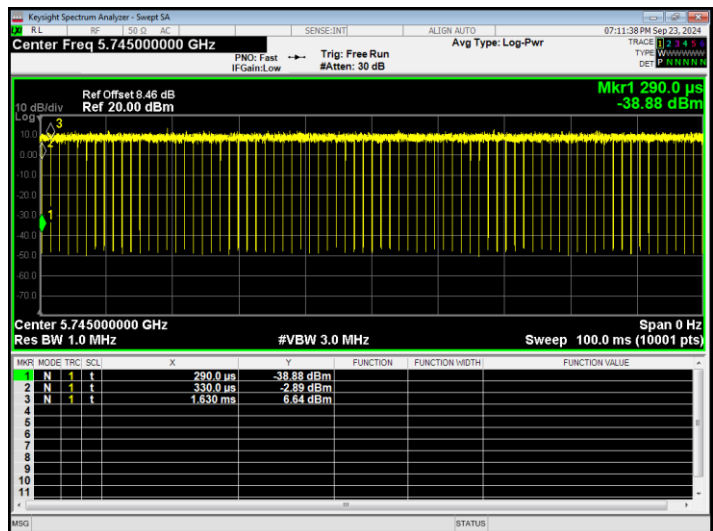
Duty Cycle NVNT ax40 5795MHz Ant2



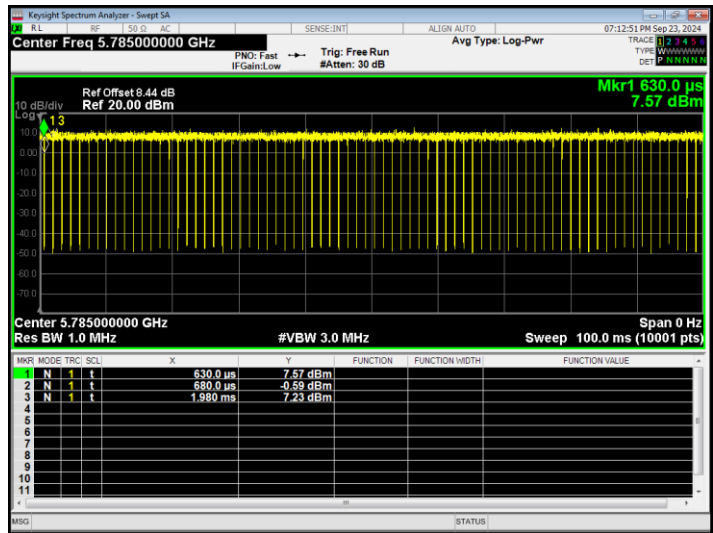
Duty Cycle NVNT ax80 5775MHz Ant2



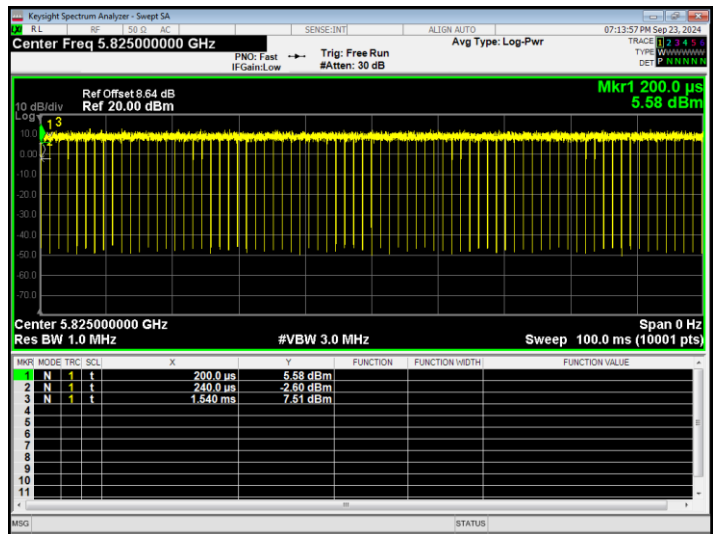
Duty Cycle NVNT n20 5745MHz Ant2



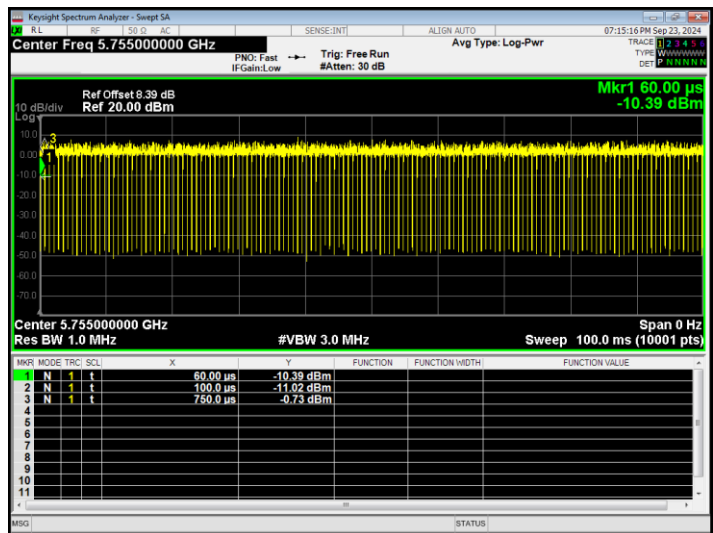
Duty Cycle NVNT n20 5785MHz Ant2



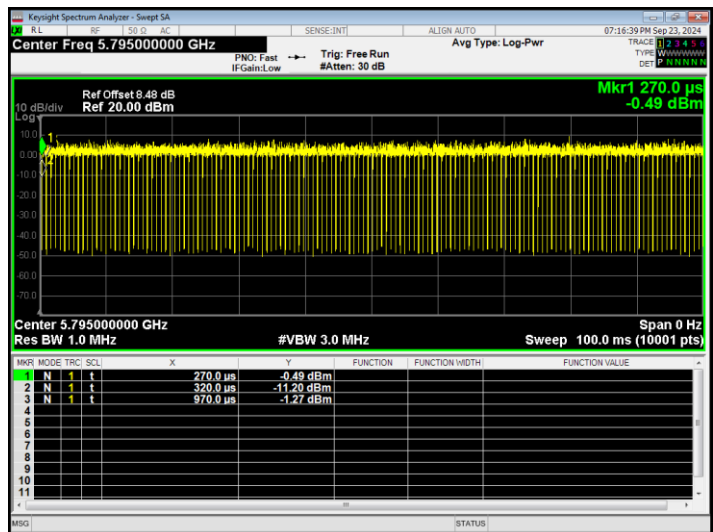
Duty Cycle NVNT n20 5825MHz Ant2



Duty Cycle NVNT n40 5755MHz Ant2



Duty Cycle NVNT n40 5795MHz Ant2



### Maximum Conducted Output Power

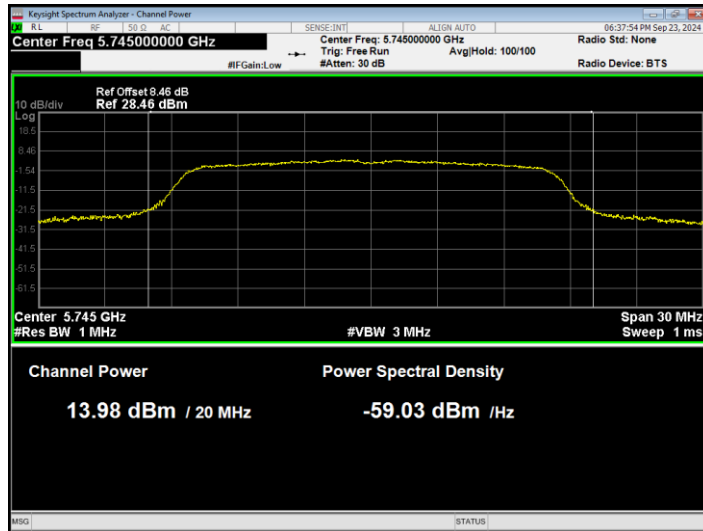
| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | a    | 5745            | Ant1    | 13.981                | 0.87             | 14.85             | 30          | Pass    |
| NVNT      | a    | 5785            | Ant1    | 13.631                | 0.87             | 14.50             | 30          | Pass    |
| NVNT      | a    | 5825            | Ant1    | 14.075                | 0.87             | 14.95             | 30          | Pass    |
| NVNT      | ac20 | 5745            | Ant1    | 14.62                 | 0.31             | 14.93             | 30          | Pass    |
| NVNT      | ac20 | 5785            | Ant1    | 14.177                | 0.31             | 14.49             | 30          | Pass    |
| NVNT      | ac20 | 5825            | Ant1    | 14.643                | 0.25             | 14.89             | 30          | Pass    |
| NVNT      | ac40 | 5755            | Ant1    | 14.235                | 0.47             | 14.71             | 30          | Pass    |
| NVNT      | ac40 | 5795            | Ant1    | 14.159                | 0.47             | 14.63             | 30          | Pass    |
| NVNT      | ac80 | 5775            | Ant1    | 13.806                | 1.06             | 14.87             | 30          | Pass    |
| NVNT      | ax20 | 5745            | Ant1    | 14.555                | 0.35             | 14.91             | 30          | Pass    |
| NVNT      | ax20 | 5785            | Ant1    | 14.009                | 0.36             | 14.37             | 30          | Pass    |
| NVNT      | ax20 | 5825            | Ant1    | 14.351                | 0.35             | 14.70             | 30          | Pass    |
| NVNT      | ax40 | 5755            | Ant1    | 13.883                | 0.82             | 14.70             | 30          | Pass    |
| NVNT      | ax40 | 5795            | Ant1    | 13.958                | 0.67             | 14.63             | 30          | Pass    |
| NVNT      | ax80 | 5775            | Ant1    | 13.379                | 1.41             | 14.79             | 30          | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 14.853                | 0.13             | 14.98             | 30          | Pass    |
| NVNT      | n20  | 5785            | Ant1    | 14.328                | 0.16             | 14.49             | 30          | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 14.842                | 0.16             | 15.00             | 30          | Pass    |
| NVNT      | n40  | 5755            | Ant1    | 14.517                | 0.26             | 14.78             | 30          | Pass    |
| NVNT      | n40  | 5795            | Ant1    | 14.357                | 0.26             | 14.62             | 30          | Pass    |

| Condition | Mode | Frequency (MHz) | Antenna | Conducted Power (dBm) | Duty Factor (dB) | Total Power (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------------|------------------|-------------------|-------------|---------|
| NVNT      | a    | 5745            | Ant2    | 13.929                | 1.12             | 15.05             | 30          | Pass    |
| NVNT      | a    | 5785            | Ant2    | 13.54                 | 0.87             | 14.41             | 30          | Pass    |
| NVNT      | a    | 5825            | Ant2    | 13.887                | 0.87             | 14.76             | 30          | Pass    |
| NVNT      | ac20 | 5745            | Ant2    | 14.571                | 0.31             | 14.88             | 30          | Pass    |
| NVNT      | ac20 | 5785            | Ant2    | 14.115                | 0.31             | 14.43             | 30          | Pass    |
| NVNT      | ac20 | 5825            | Ant2    | 14.621                | 0.25             | 14.87             | 30          | Pass    |
| NVNT      | ac40 | 5755            | Ant2    | 14.2                  | 0.47             | 14.67             | 30          | Pass    |
| NVNT      | ac40 | 5795            | Ant2    | 14.121                | 0.47             | 14.59             | 30          | Pass    |
| NVNT      | ac80 | 5775            | Ant2    | 13.82                 | 1.06             | 14.88             | 30          | Pass    |
| NVNT      | ax20 | 5745            | Ant2    | 14.584                | 0.45             | 15.03             | 30          | Pass    |
| NVNT      | ax20 | 5785            | Ant2    | 13.784                | 0.45             | 14.23             | 30          | Pass    |
| NVNT      | ax20 | 5825            | Ant2    | 14.477                | 0.35             | 14.83             | 30          | Pass    |
| NVNT      | ax40 | 5755            | Ant2    | 13.884                | 0.64             | 14.52             | 30          | Pass    |
| NVNT      | ax40 | 5795            | Ant2    | 13.921                | 0.82             | 14.74             | 30          | Pass    |
| NVNT      | ax80 | 5775            | Ant2    | 13.429                | 1.09             | 14.52             | 30          | Pass    |
| NVNT      | n20  | 5745            | Ant2    | 14.776                | 0.13             | 14.91             | 30          | Pass    |
| NVNT      | n20  | 5785            | Ant2    | 14.231                | 0.16             | 14.39             | 30          | Pass    |
| NVNT      | n20  | 5825            | Ant2    | 14.734                | 0.13             | 14.86             | 30          | Pass    |
| NVNT      | n40  | 5755            | Ant2    | 14.362                | 0.26             | 14.62             | 30          | Pass    |
| NVNT      | n40  | 5795            | Ant2    | 14.471                | 0.32             | 14.79             | 30          | Pass    |

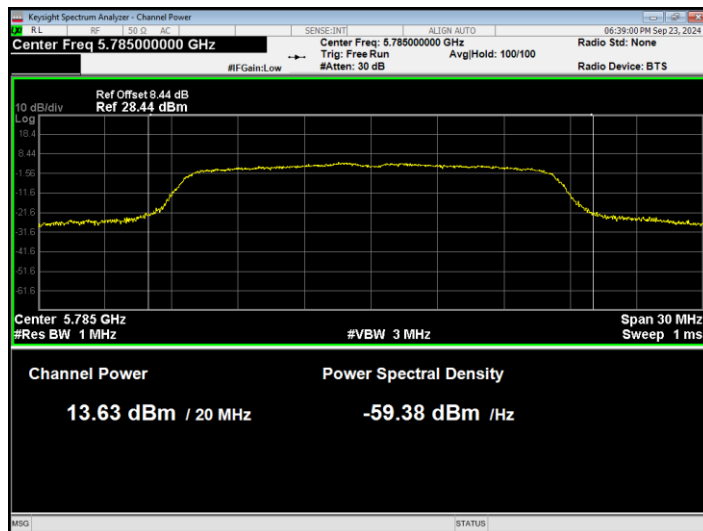
MIMO Mode

| Mode | Frequency (MHz) | Antenna | Total Power (dBm) | Limit (dBm) | Verdict |
|------|-----------------|---------|-------------------|-------------|---------|
| ac20 | 5745            | Ant1+2  | 17.92             | 30          | Pass    |
| ac20 | 5785            | Ant1+2  | 17.47             | 30          | Pass    |
| ac20 | 5825            | Ant1+2  | 17.89             | 30          | Pass    |
| ac40 | 5755            | Ant1+2  | 17.70             | 30          | Pass    |
| ac40 | 5795            | Ant1+2  | 17.62             | 30          | Pass    |
| ac80 | 5775            | Ant1+2  | 17.89             | 30          | Pass    |
| ax20 | 5745            | Ant1+2  | 17.98             | 30          | Pass    |
| ax20 | 5785            | Ant1+2  | 17.31             | 30          | Pass    |
| ax20 | 5825            | Ant1+2  | 17.78             | 30          | Pass    |
| ax40 | 5755            | Ant1+2  | 17.62             | 30          | Pass    |
| ax40 | 5795            | Ant1+2  | 17.70             | 30          | Pass    |
| ax80 | 5775            | Ant1+2  | 17.67             | 30          | Pass    |
| n20  | 5745            | Ant1+2  | 17.96             | 30          | Pass    |
| n20  | 5785            | Ant1+2  | 17.45             | 30          | Pass    |
| n20  | 5825            | Ant1+2  | 17.94             | 30          | Pass    |
| n40  | 5755            | Ant1+2  | 17.71             | 30          | Pass    |
| n40  | 5795            | Ant1+2  | 17.72             | 30          | Pass    |

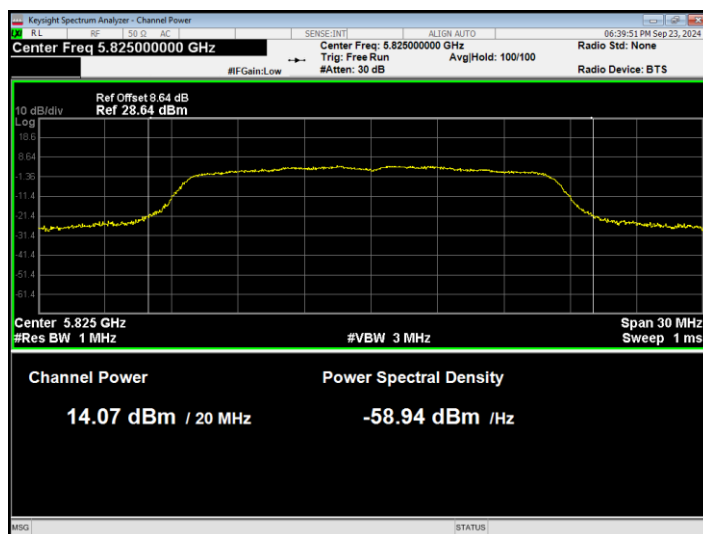
Power NVNT a 5745MHz Ant1



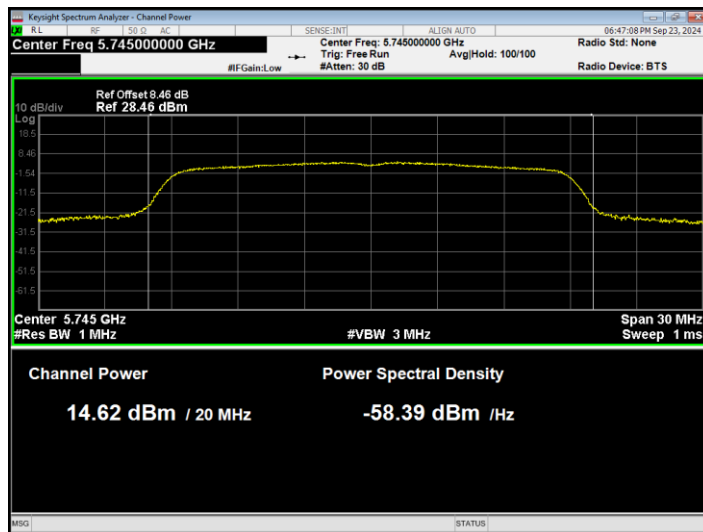
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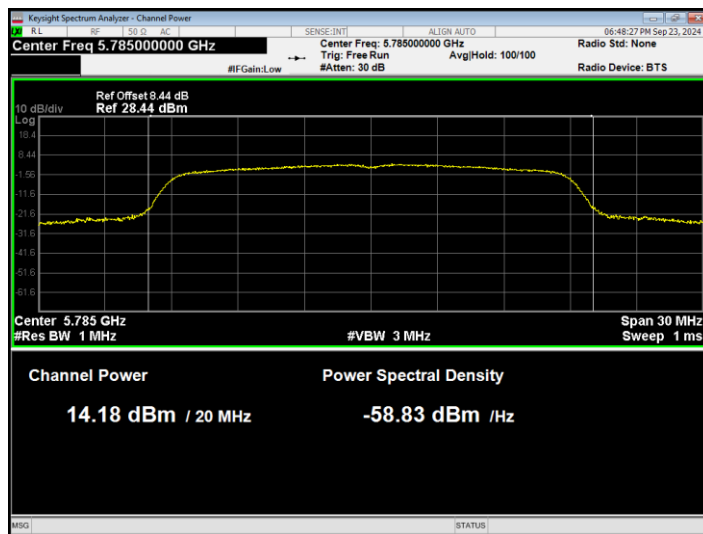
Power NVNT a 5825MHz Ant1



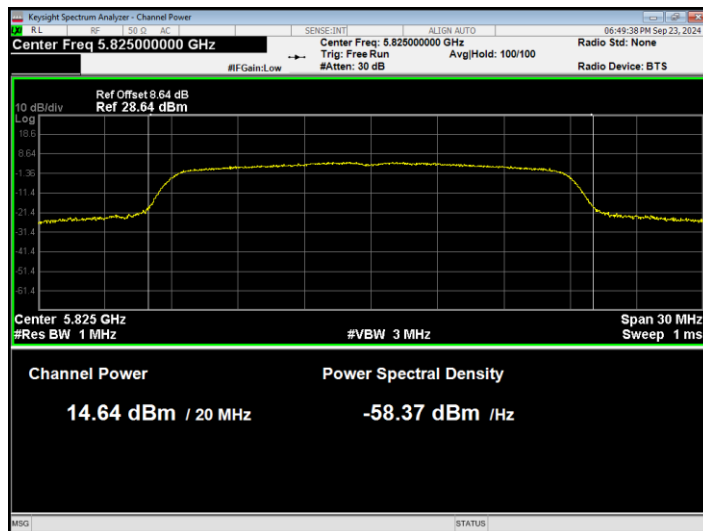
Power NVNT ac20 5745MHz Ant1



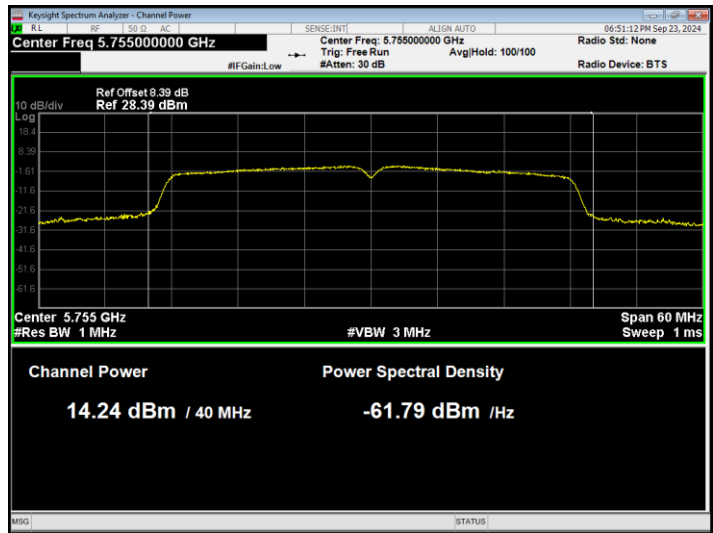
Power NVNT ac20 5785MHz Ant1



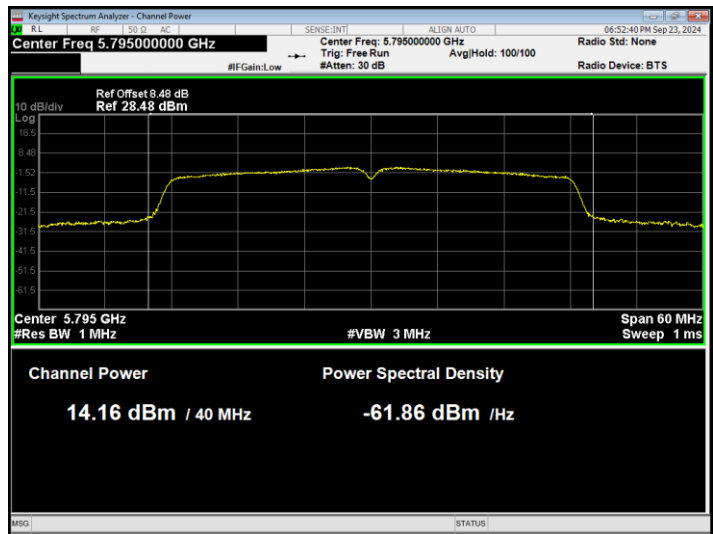
Power NVNT ac20 5825MHz Ant1



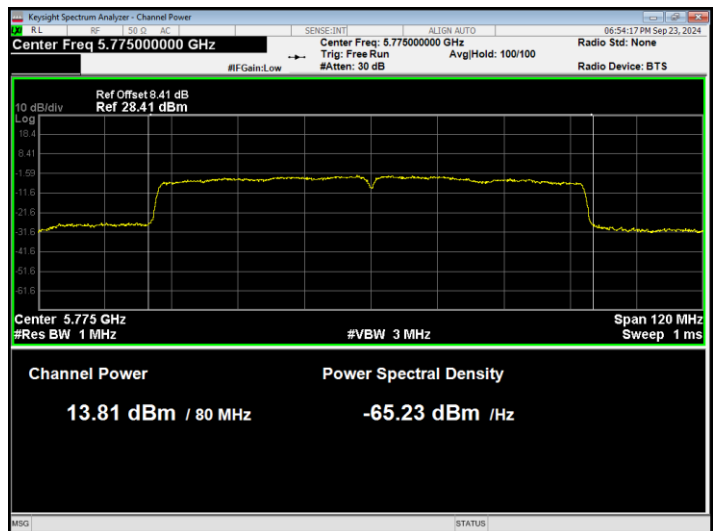
Power NVNT ac40 5755MHz Ant1



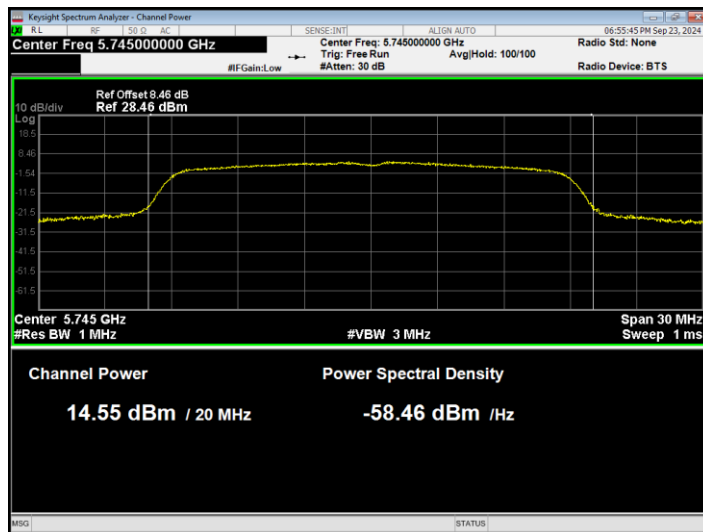
Power NVNT ac40 5795MHz Ant1



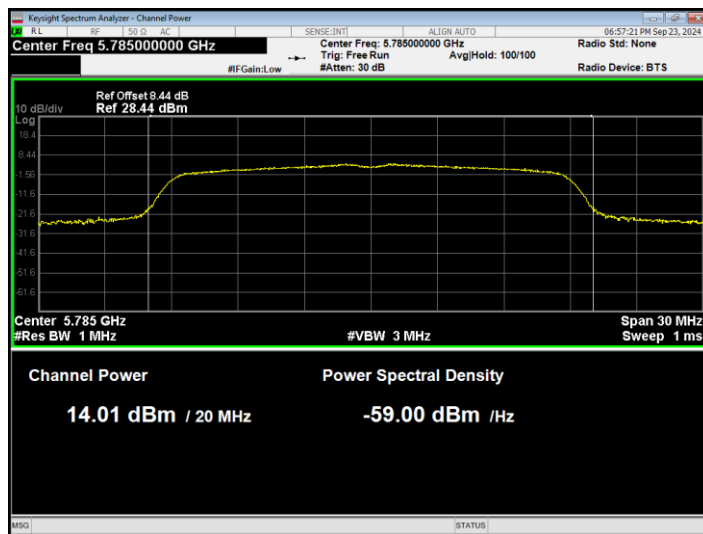
Power NVNT ac80 5775MHz Ant1



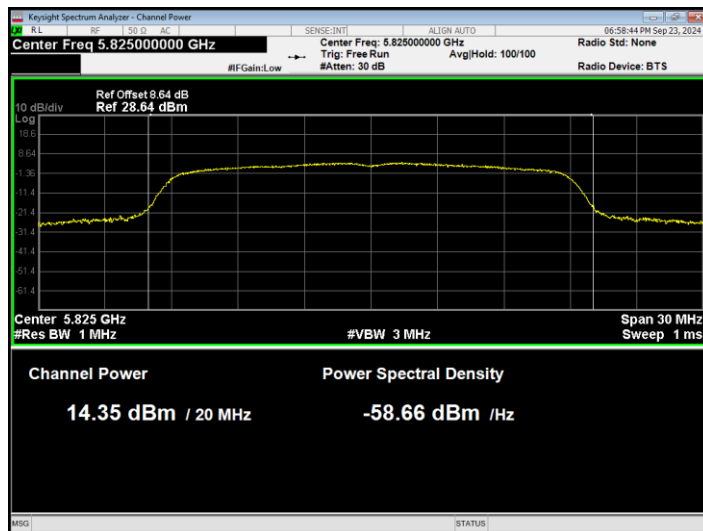
Power NVNT ax20 5745MHz Ant1



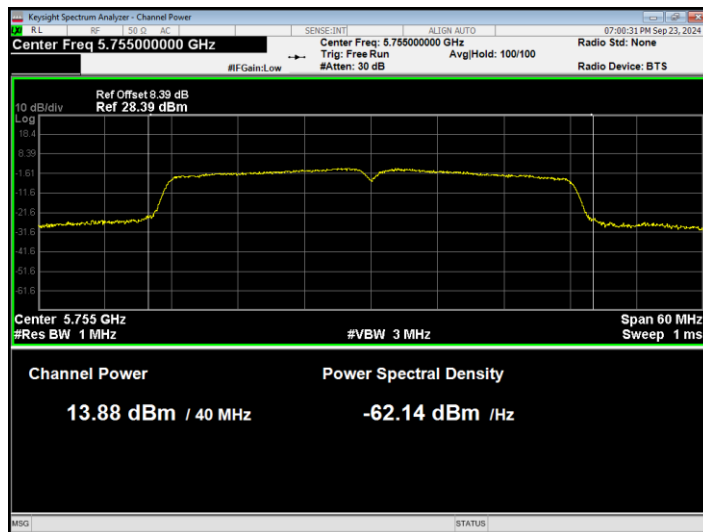
Power NVNT ax20 5785MHz Ant1



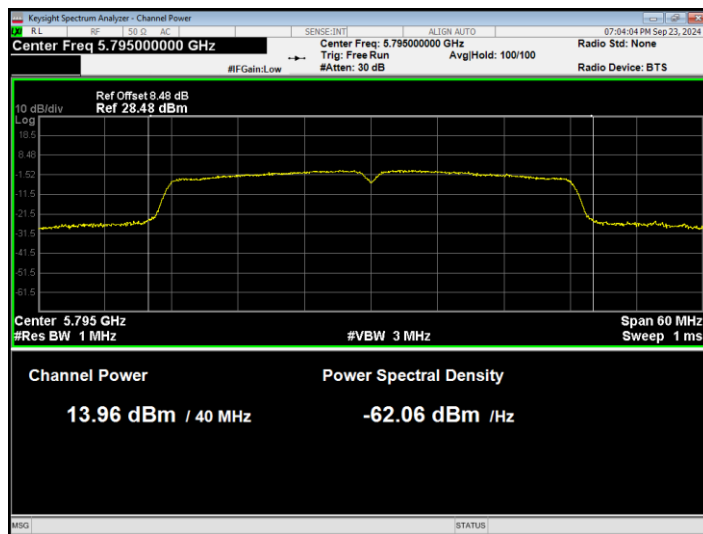
Power NVNT ax20 5825MHz Ant1



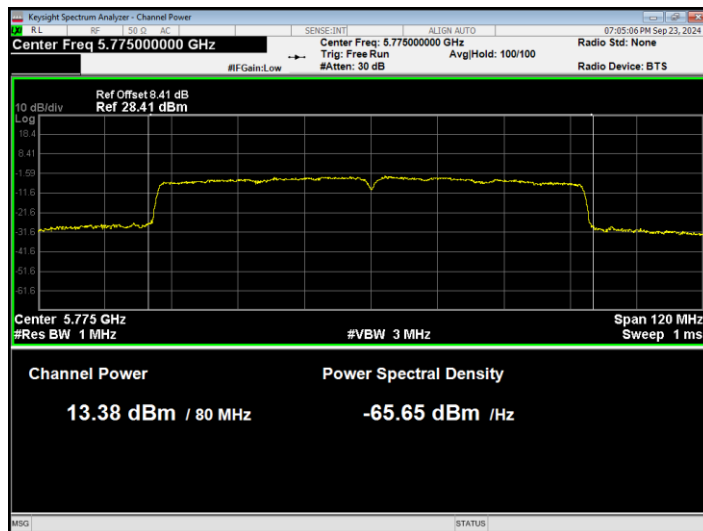
Power NVNT ax40 5755MHz Ant1



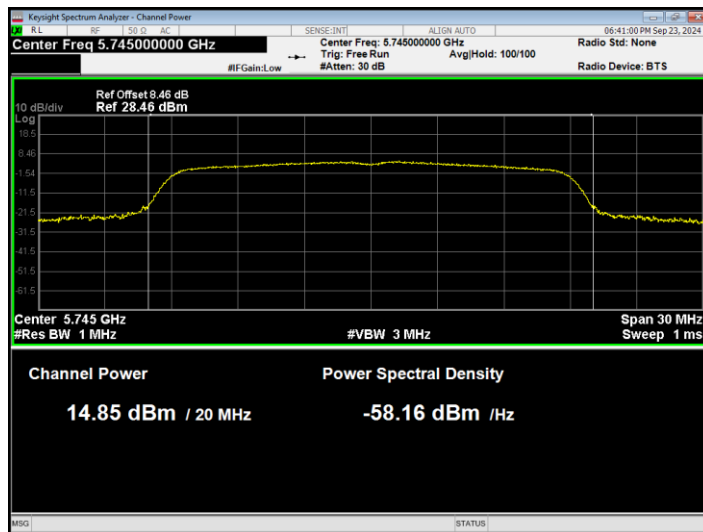
Power NVNT ax40 5795MHz Ant1



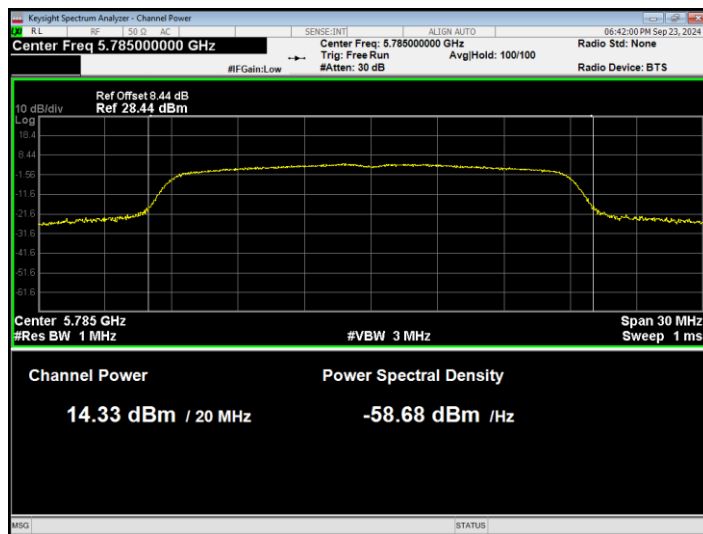
Power NVNT ax80 5775MHz Ant1



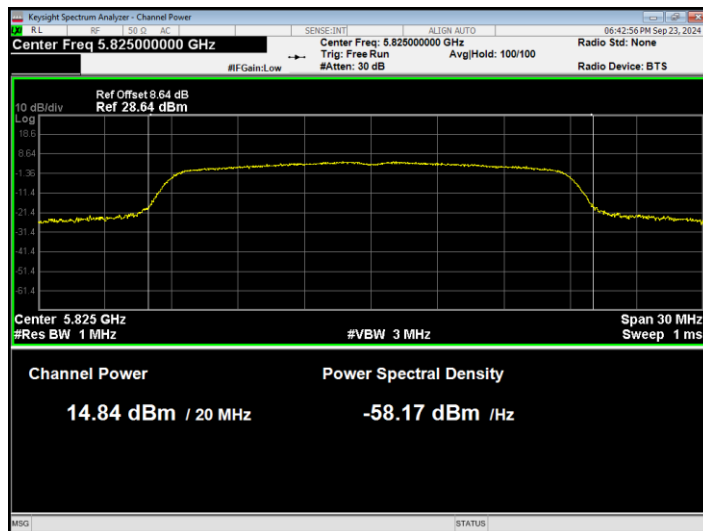
Power NVNT n20 5745MHz Ant1



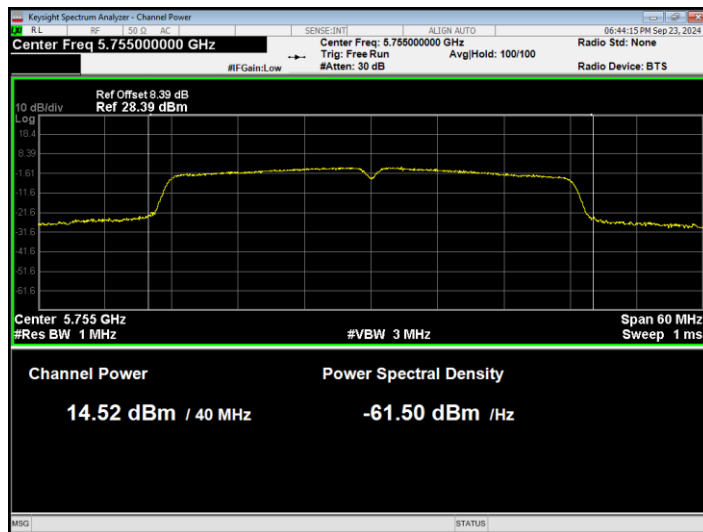
Power NVNT n20 5785MHz Ant1



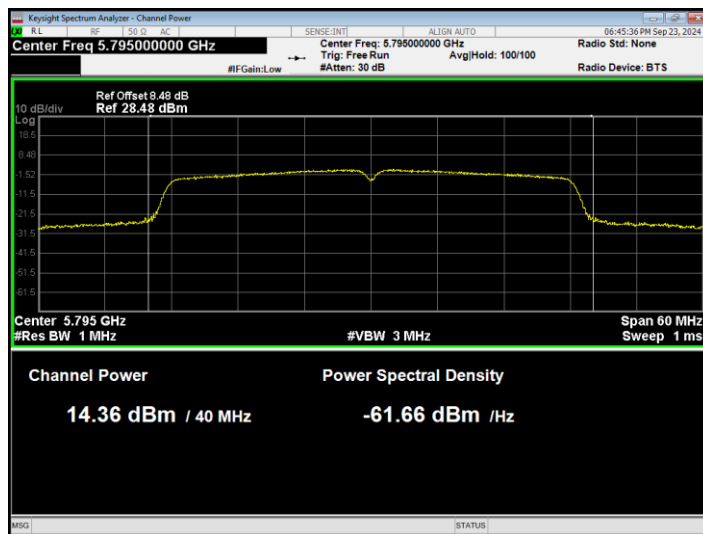
Power NVNT n20 5825MHz Ant1



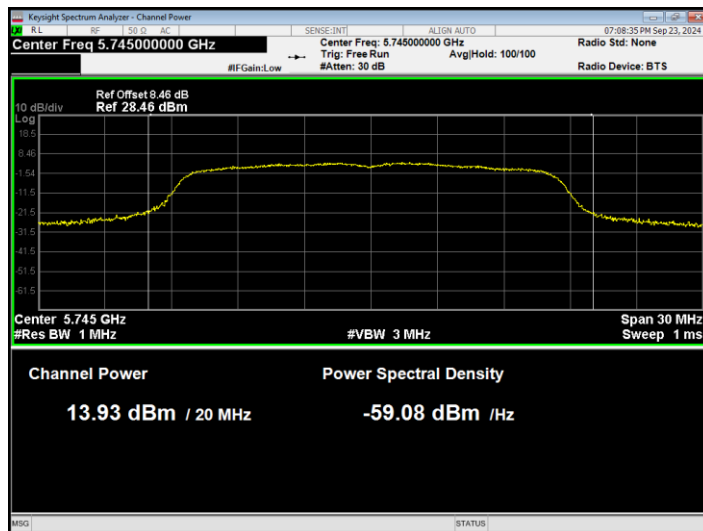
Power NVNT n40 5755MHz Ant1



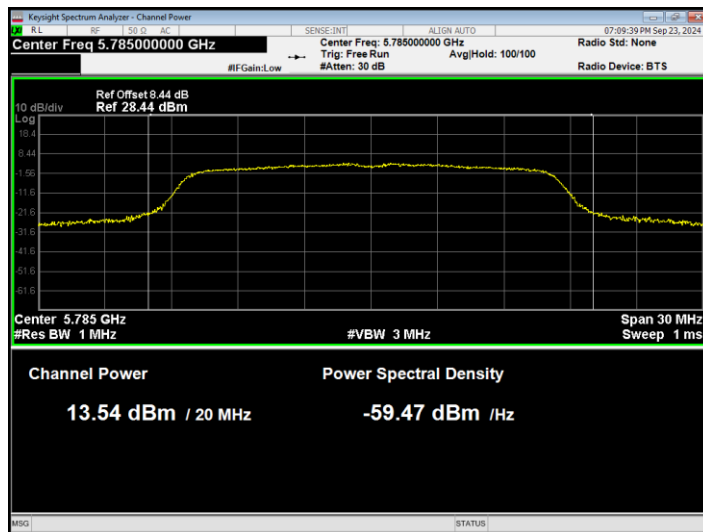
Power NVNT n40 5795MHz Ant1



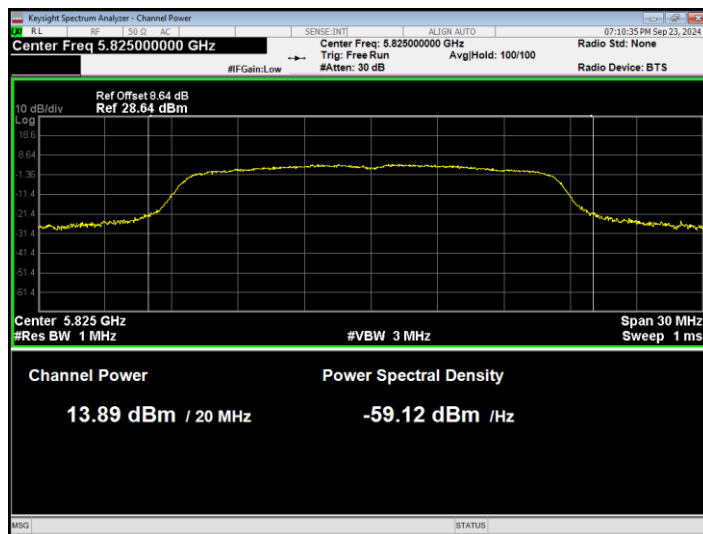
Power NVNT a 5745MHz Ant2



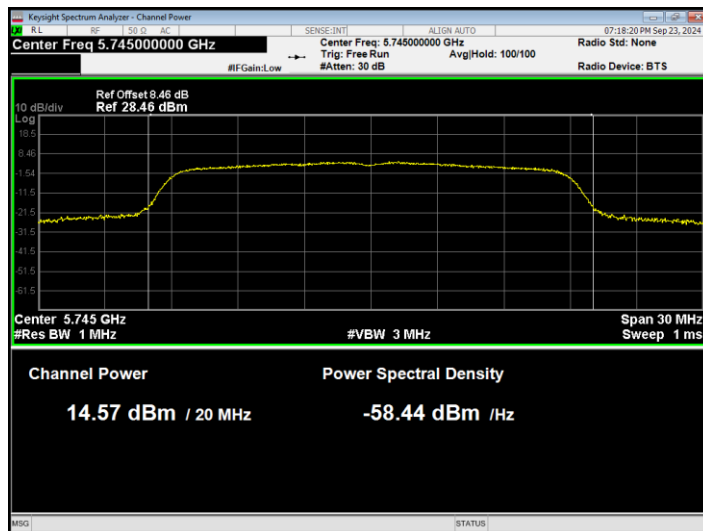
Power NVNT a 5785MHz Ant2



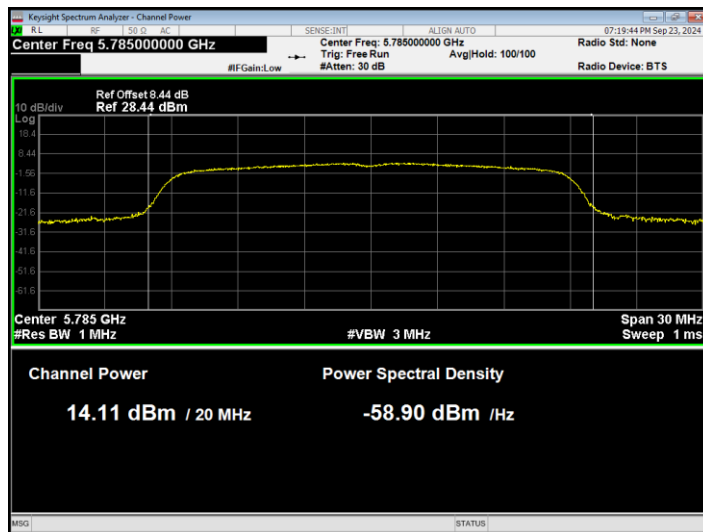
Power NVNT a 5825MHz Ant2



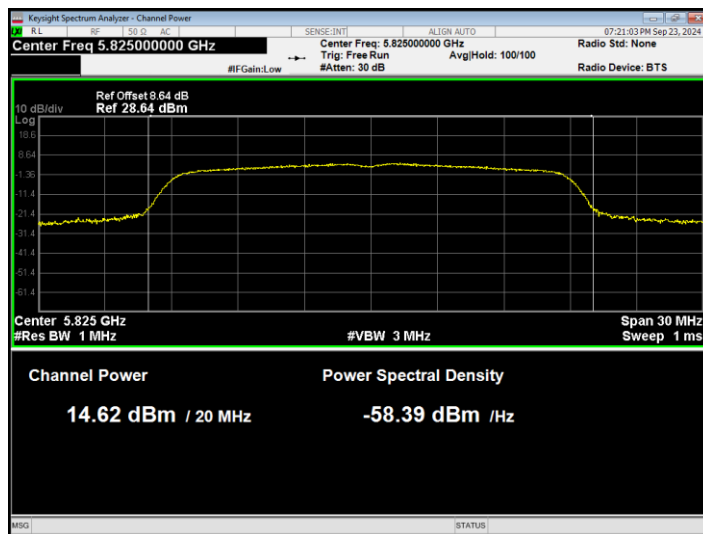
Power NVNT ac20 5745MHz Ant2



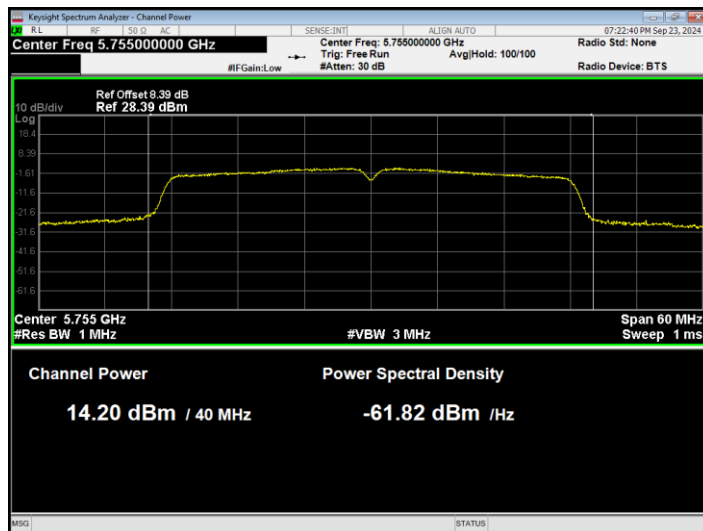
Power NVNT ac20 5785MHz Ant2



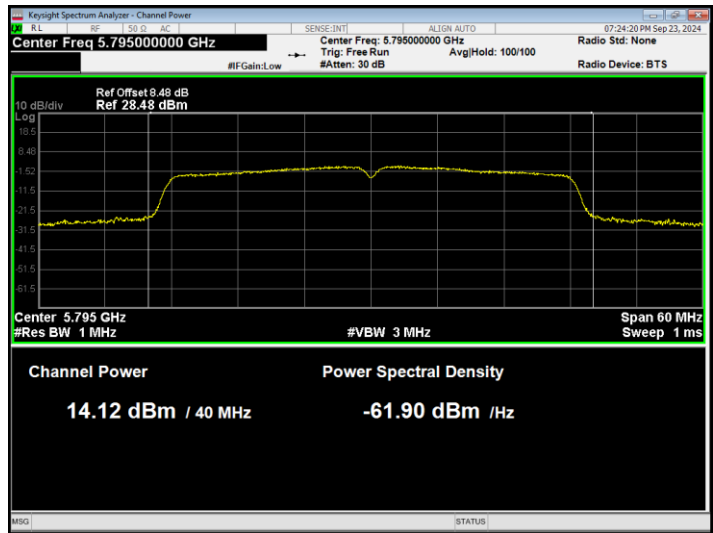
Power NVNT ac20 5825MHz Ant2



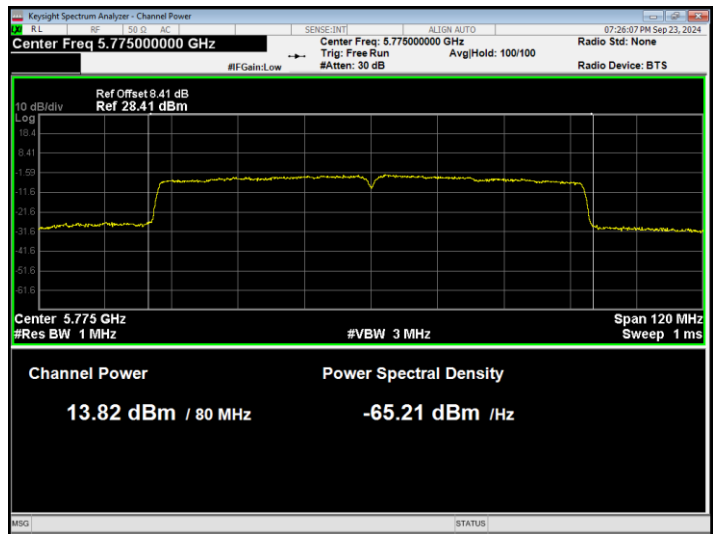
Power NVNT ac40 5755MHz Ant2



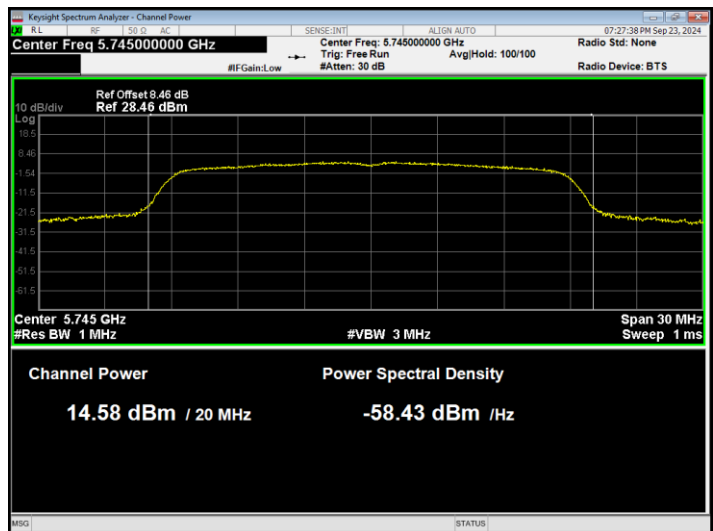
Power NVNT ac40 5795MHz Ant2



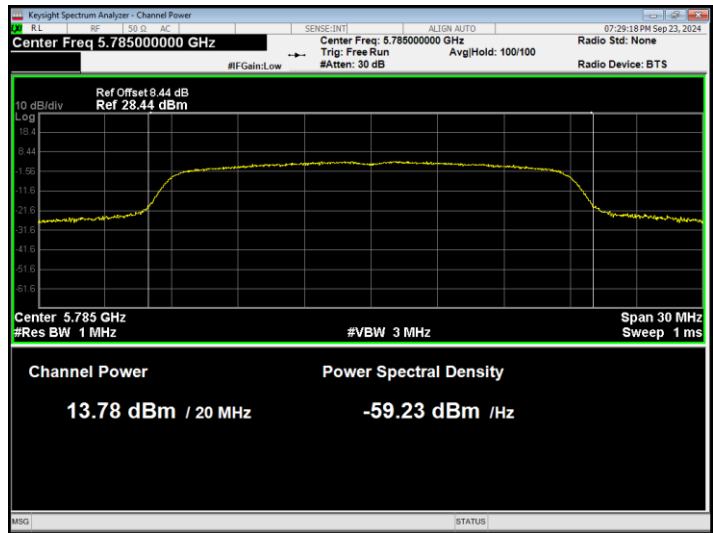
Power NVNT ac80 5775MHz Ant2



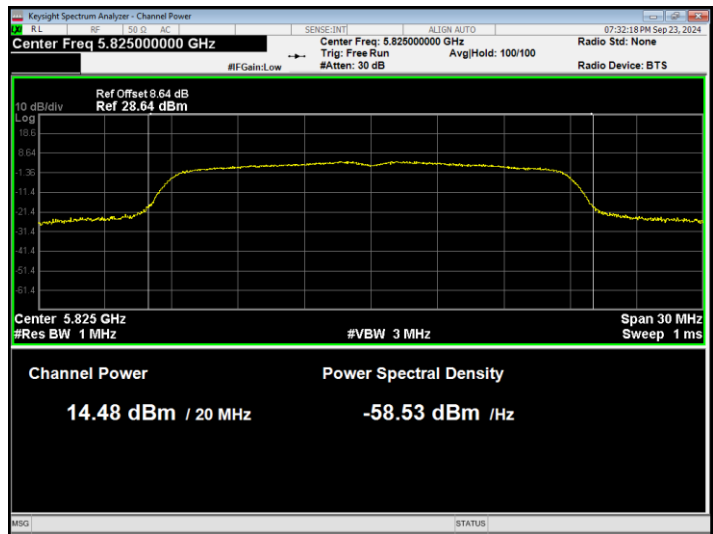
Power NVNT ax20 5745MHz Ant2



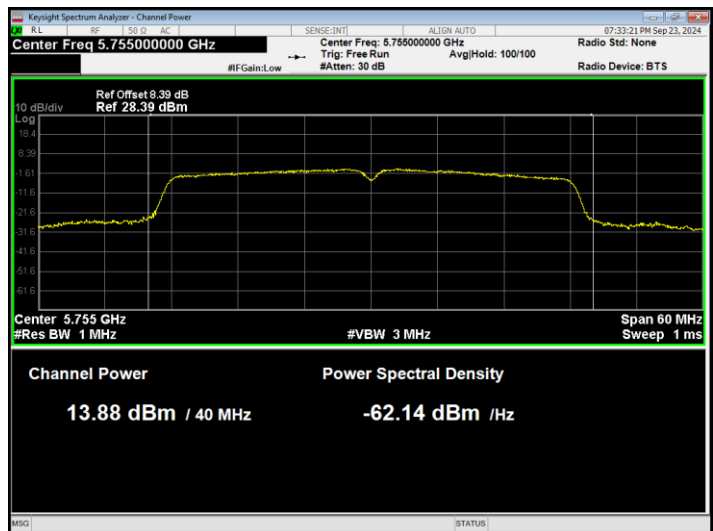
Power NVNT ax20 5785MHz Ant2



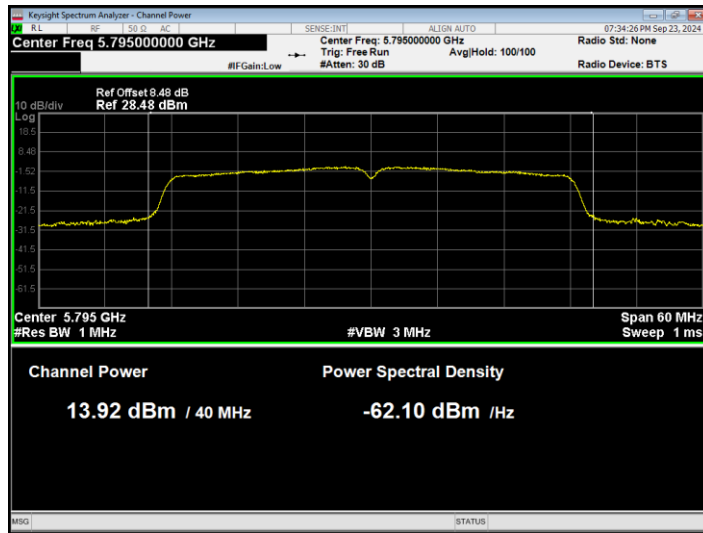
Power NVNT ax20 5825MHz Ant2



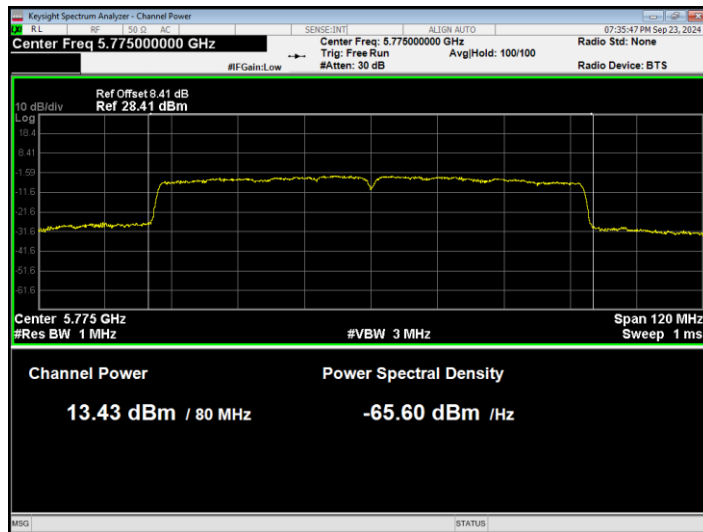
Power NVNT ax40 5755MHz Ant2



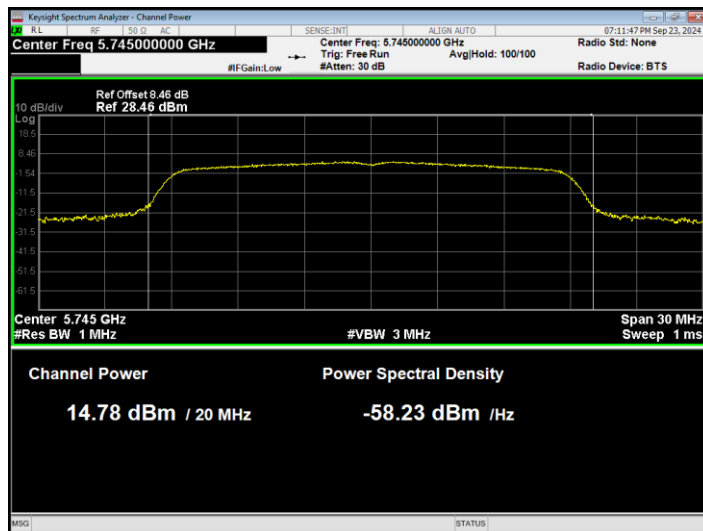
Power NVNT ax40 5795MHz Ant2



Power NVNT ax80 5775MHz Ant2



Power NVNT n20 5745MHz Ant2



Power NVNT n20 5785MHz Ant2