



Shenzhen DL Testing Technology Co., Ltd.

# Appendix 1

## FCC Test Report

### FCC ID: 2BS07-SPAMW21XXE1

|                  |                                                                                                                                                                                   |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant:       | SUNPLUS TECHNOLOGY CO., LTD.                                                                                                                                                      |
| Address:         | 19, Innovation First Road Hsinchu Science Park, Taiwan 30076                                                                                                                      |
| Manufacturer:    | SUNPLUS TECHNOLOGY CO., LTD.                                                                                                                                                      |
| Address:         | 19, Innovation First Road Hsinchu Science Park, Taiwan 30076                                                                                                                      |
| EUT:             | Wireless Audio Module                                                                                                                                                             |
| Trade Mark:      | N/A                                                                                                                                                                               |
| Model Number:    | SPA-MW21xx-E, SPA-MW21F3-E, SPA-MW21P2-E                                                                                                                                          |
| Date of Receipt: | Oct. 10, 2025                                                                                                                                                                     |
| Test Date:       | Oct. 10, 2025 - Nov. 29, 2025                                                                                                                                                     |
| Date of Report:  | Nov. 29, 2025                                                                                                                                                                     |
| Prepared By:     | Shenzhen DL Testing Technology Co., Ltd.                                                                                                                                          |
| Address:         | 101-201, Comprehensive Building, Tongzhou Electronics Longgang Factory Area, No.1<br>Baolong Fifth Road, Baolong Community, Baolong Street, Longgang District, Shenzhen,<br>China |
| Test Result:     | Pass                                                                                                                                                                              |



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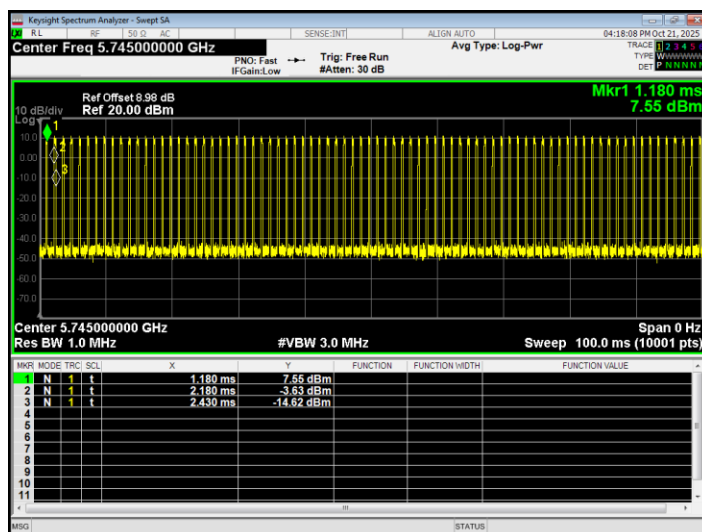
### Duty Cycle

| Condition | Mode | Frequency (MHz) | Antenna | Duty Cycle (%) | Correction Factor (dB) |
|-----------|------|-----------------|---------|----------------|------------------------|
| NVNT      | a    | 5745            | Ant1    | 20             | 6.99                   |
| NVNT      | a    | 5785            | Ant1    | 19.2           | 7.17                   |
| NVNT      | a    | 5825            | Ant1    | 19.35          | 7.13                   |
| NVNT      | n20  | 5745            | Ant1    | 18.7           | 7.28                   |
| NVNT      | n20  | 5785            | Ant1    | 18.03          | 7.44                   |
| NVNT      | n20  | 5825            | Ant1    | 18.7           | 7.28                   |
| NVNT      | n40  | 5755            | Ant1    | 11.5           | 9.39                   |
| NVNT      | n40  | 5795            | Ant1    | 11.5           | 9.39                   |

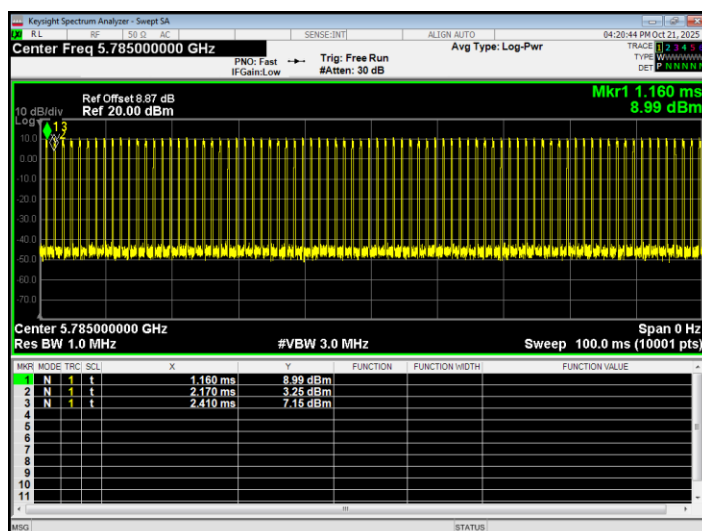


# Shenzhen DL Testing Technology Co., Ltd.

## Duty Cycle NVNT a 5745MHz Ant1



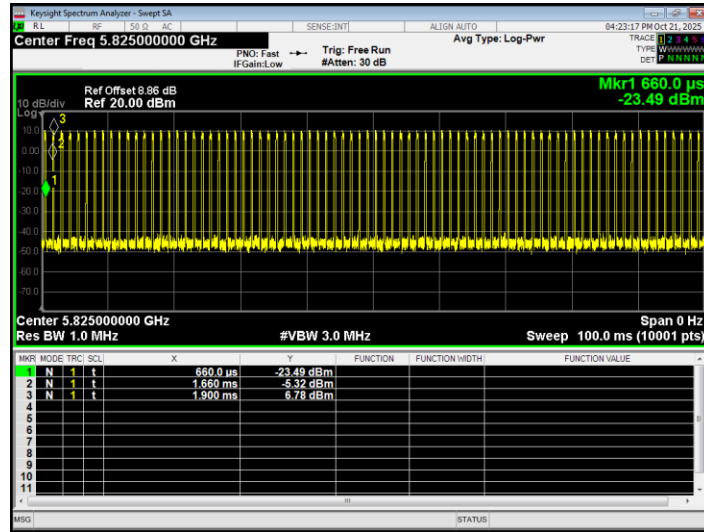
## Duty Cycle NVNT a 5785MHz Ant1



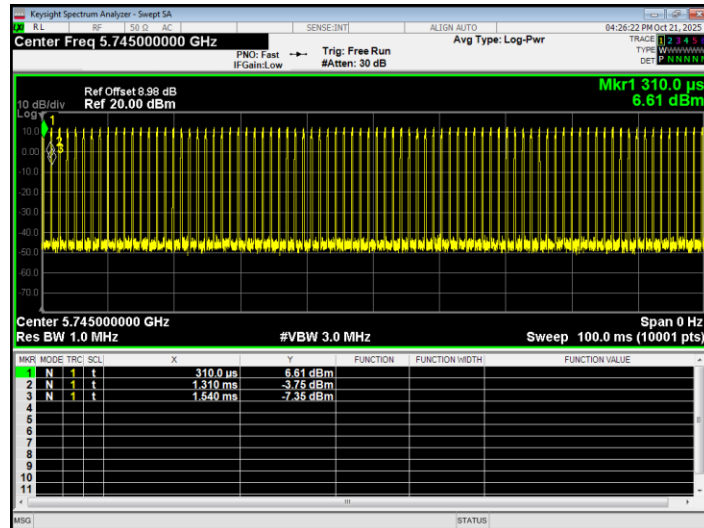


## Shenzhen DL Testing Technology Co., Ltd.

### Duty Cycle NVNT a 5825MHz Ant1



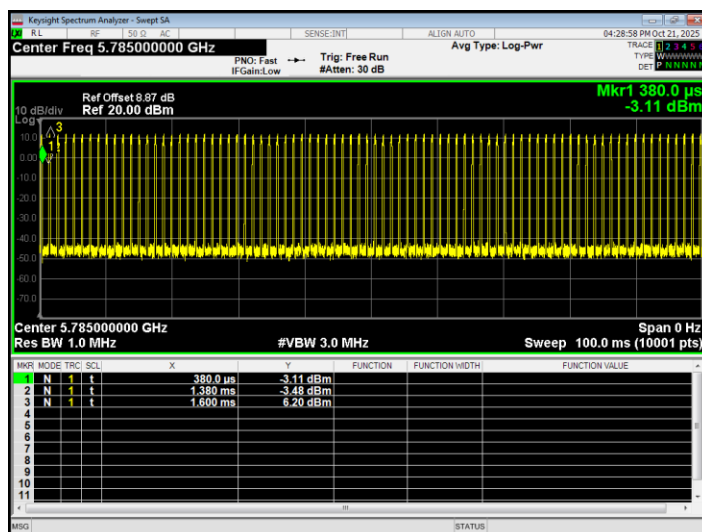
### Duty Cycle NVNT n20 5745MHz Ant1



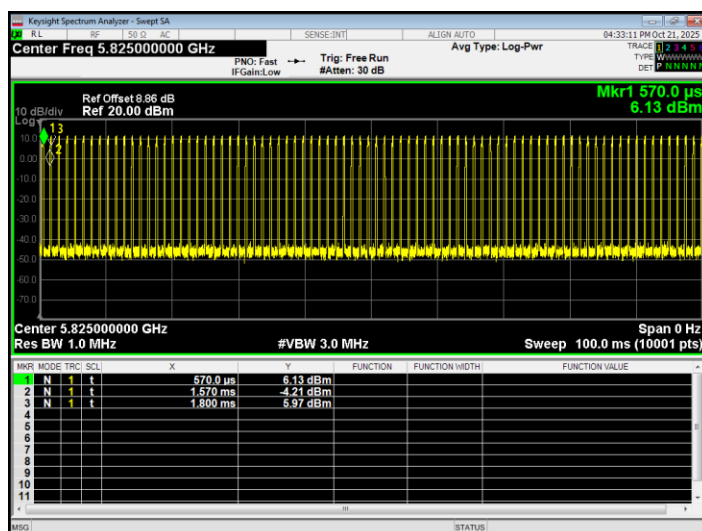


# Shenzhen DL Testing Technology Co., Ltd.

## Duty Cycle NVNT n20 5785MHz Ant1



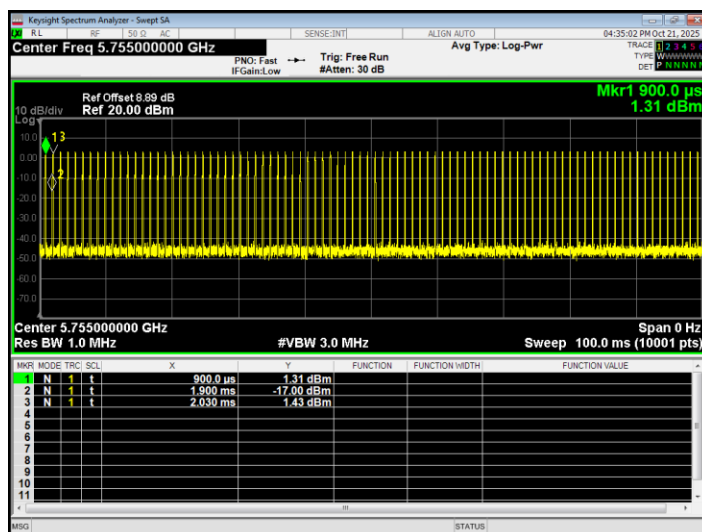
## Duty Cycle NVNT n20 5825MHz Ant1



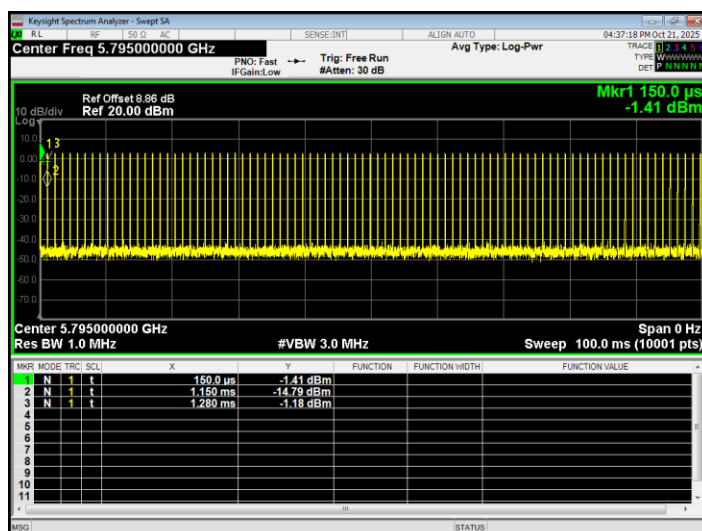


# Shenzhen DL Testing Technology Co., Ltd.

## Duty Cycle NVNT n40 5755MHz Ant1



## Duty Cycle NVNT n40 5795MHz Ant1





**Conducted Band Edge**

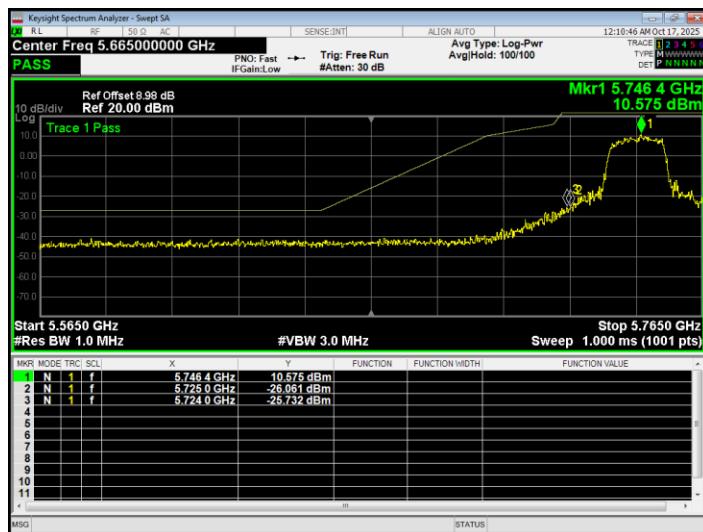
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | a    | 5745            | Ant1    | -25.73          | 15.6        | Pass    |
| NVNT      | a    | 5825            | Ant1    | -28.99          | 15.6        | Pass    |
| NVNT      | n20  | 5745            | Ant1    | -20.52          | 15.6        | Pass    |
| NVNT      | n20  | 5825            | Ant1    | -25.71          | 15.6        | Pass    |
| NVNT      | n40  | 5755            | Ant1    | -17.65          | 13.2        | Pass    |
| NVNT      | n40  | 5795            | Ant1    | -28.45          | 15.6        | Pass    |

Note: The antenna gain is compensated in the test data.

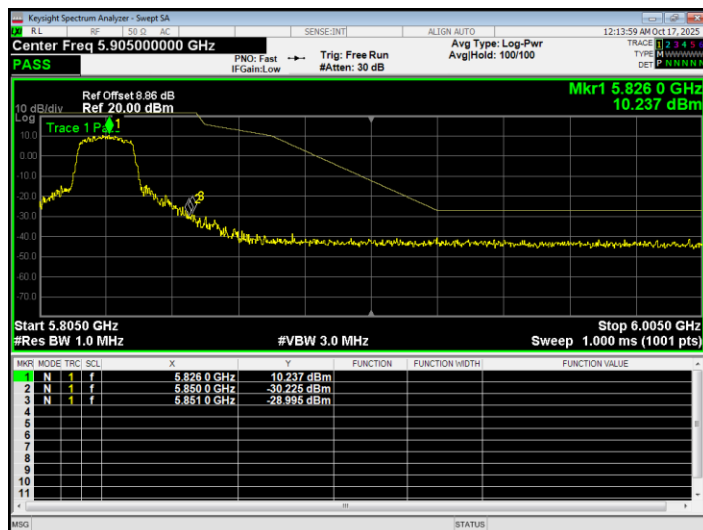


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## Band Edge NVNT a 5745MHz Low Ant1



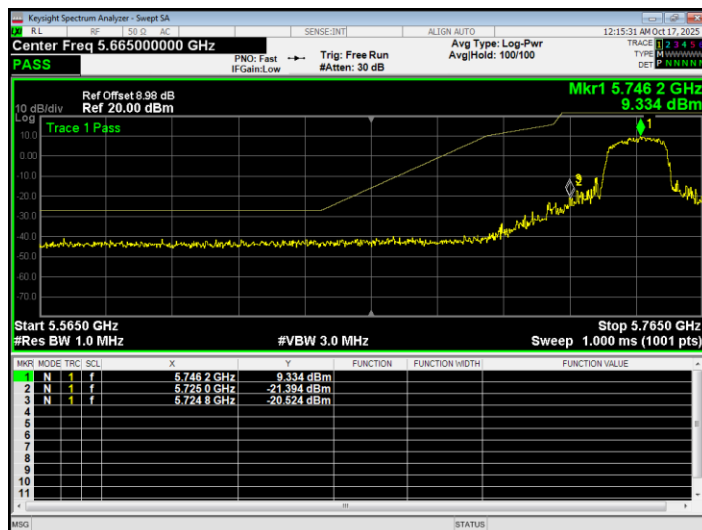
## Band Edge NVNT a 5825MHz High Ant1



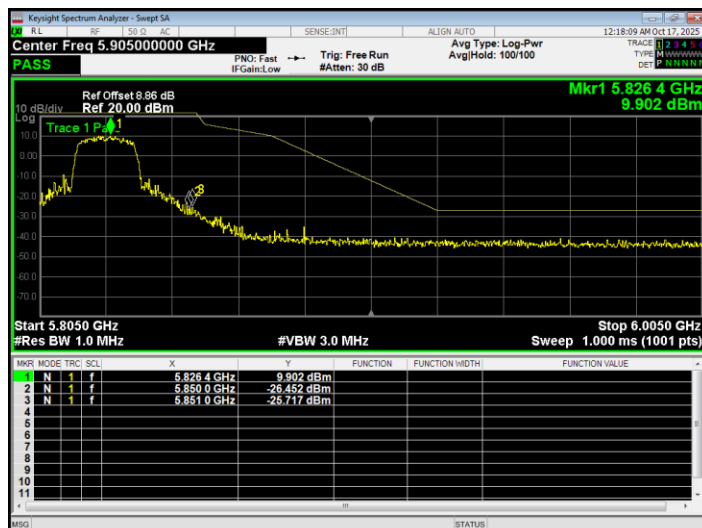


# Shenzhen DL Testing Technology Co., Ltd.

## Band Edge NVNT n20 5745MHz Low Ant1



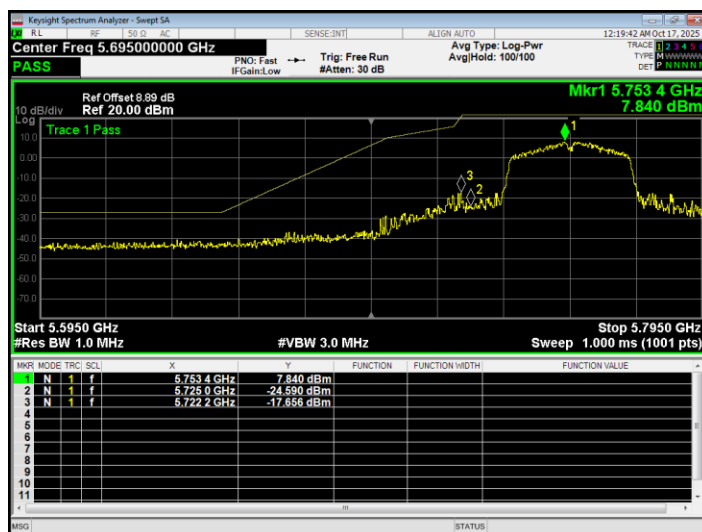
## Band Edge NVNT n20 5825MHz High Ant1



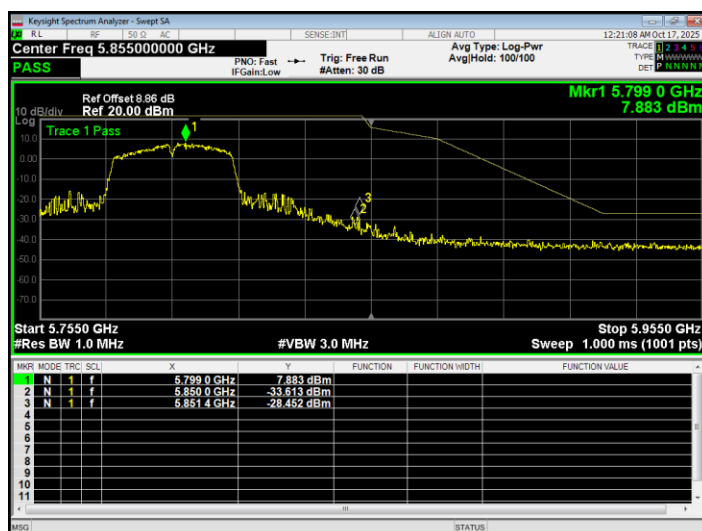


## Shenzhen DL Testing Technology Co., Ltd.

### Band Edge NVNT n40 5755MHz Low Ant1



### Band Edge NVNT n40 5795MHz High Ant1





### Conducted Output Power

| Condition | Mode | Frequency<br>(MHz) | Antenna | Conducted Output Power<br>(dBm) | Duty factor<br>(dB) | Total Output<br>Power(dBm) | Limit<br>(dBm) | Verdict |
|-----------|------|--------------------|---------|---------------------------------|---------------------|----------------------------|----------------|---------|
| NVNT      | a    | 5745               | Ant1    | 13.87                           | 6.99                | 20.86                      | 30             | Pass    |
| NVNT      | a    | 5785               | Ant1    | 13.699                          | 7.17                | 20.869                     | 30             | Pass    |
| NVNT      | a    | 5825               | Ant1    | 12.77                           | 7.13                | 19.9                       | 30             | Pass    |
| NVNT      | n20  | 5745               | Ant1    | 14.706                          | 7.28                | 21.986                     | 30             | Pass    |
| NVNT      | n20  | 5785               | Ant1    | 14.493                          | 7.44                | 21.933                     | 30             | Pass    |
| NVNT      | n20  | 5825               | Ant1    | 14.318                          | 7.28                | 21.598                     | 30             | Pass    |
| NVNT      | n40  | 5755               | Ant1    | 11.999                          | 9.39                | 21.389                     | 30             | Pass    |
| NVNT      | n40  | 5795               | Ant1    | 11.388                          | 9.39                | 20.778                     | 30             | Pass    |



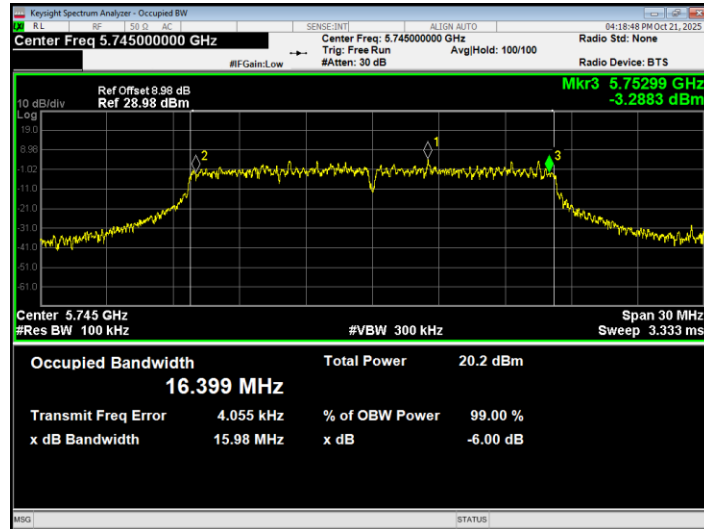
**-6dB Bandwidth**

| Condition | Mode | Frequency (MHz) | Antenna | -6 dB Bandwidth (MHz) | Limit -6 dB Bandwidth (MHz) | Verdict |
|-----------|------|-----------------|---------|-----------------------|-----------------------------|---------|
| NVNT      | a    | 5745            | Ant1    | 15.98                 | 0.5                         | Pass    |
| NVNT      | a    | 5785            | Ant1    | 16.1                  | 0.5                         | Pass    |
| NVNT      | a    | 5825            | Ant1    | 16.37                 | 0.5                         | Pass    |
| NVNT      | n20  | 5745            | Ant1    | 17.36                 | 0.5                         | Pass    |
| NVNT      | n20  | 5785            | Ant1    | 17.3                  | 0.5                         | Pass    |
| NVNT      | n20  | 5825            | Ant1    | 17.28                 | 0.5                         | Pass    |
| NVNT      | n40  | 5755            | Ant1    | 35.6                  | 0.5                         | Pass    |
| NVNT      | n40  | 5795            | Ant1    | 35.52                 | 0.5                         | Pass    |

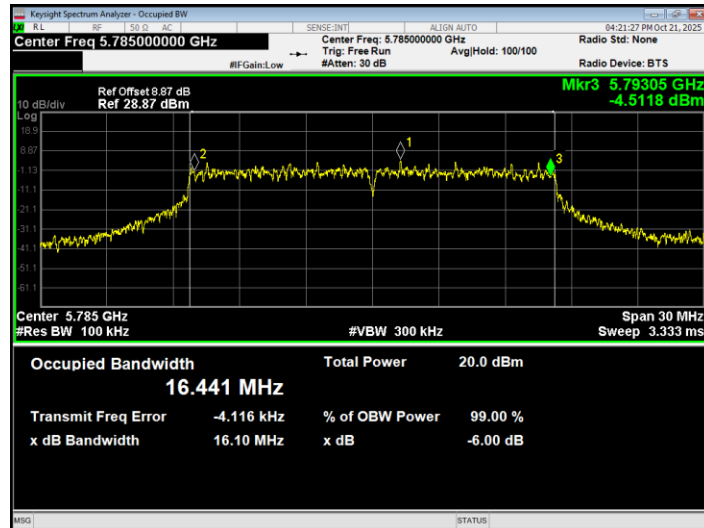


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-6dB Bandwidth NVNT a 5745MHz Ant1



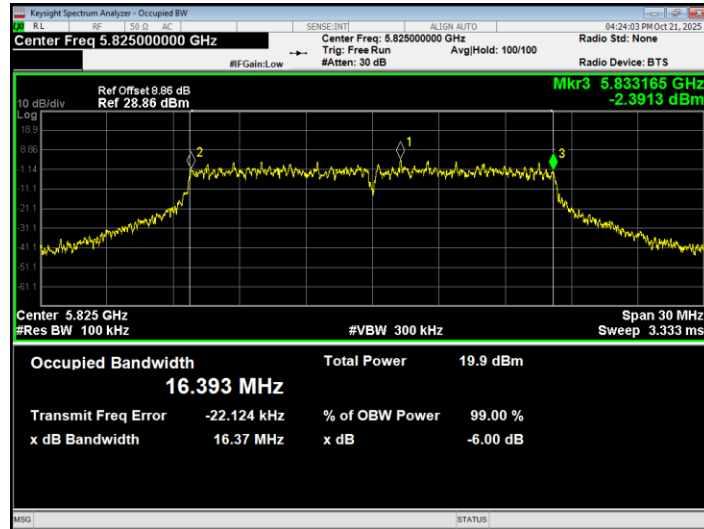
-6dB Bandwidth NVNT a 5785MHz Ant1



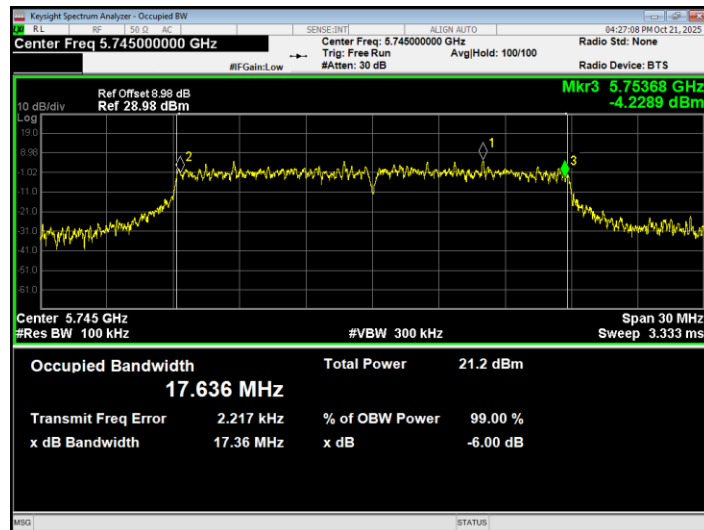


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-6dB Bandwidth NVNT a 5825MHz Ant1



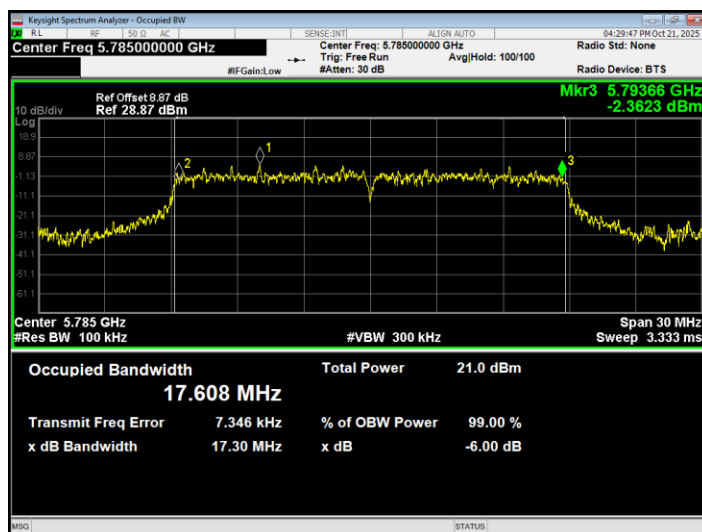
-6dB Bandwidth NVNT n20 5745MHz Ant1



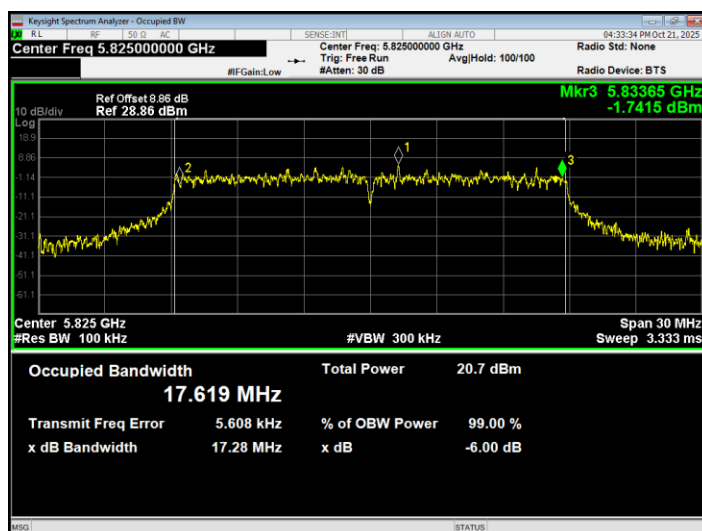


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-6dB Bandwidth NVNT n20 5785MHz Ant1



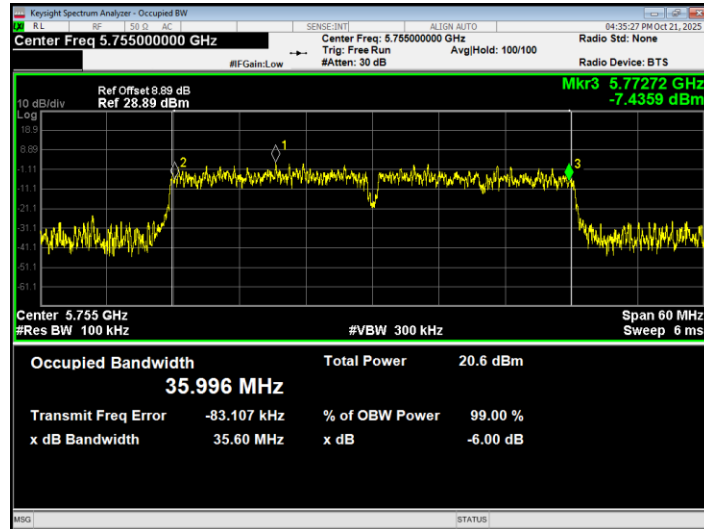
-6dB Bandwidth NVNT n20 5825MHz Ant1



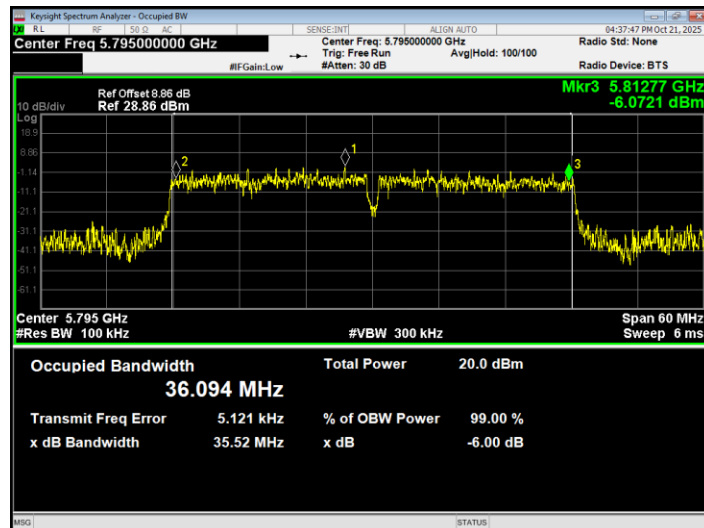


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-6dB Bandwidth NVNT n40 5755MHz Ant1



-6dB Bandwidth NVNT n40 5795MHz Ant1





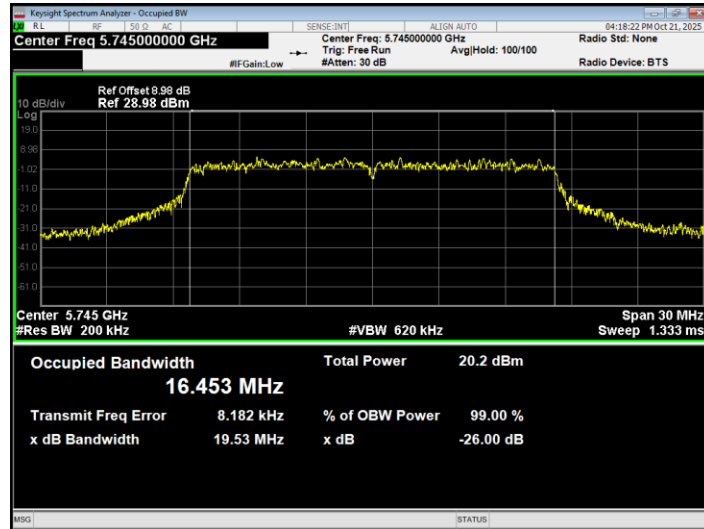
### Occupied Channel Bandwidth

| Condition | Mode | Frequency (MHz) | Antenna | 99% OBW (MHz) |
|-----------|------|-----------------|---------|---------------|
| NVNT      | a    | 5745            | Ant1    | 16.453        |
| NVNT      | a    | 5785            | Ant1    | 16.449        |
| NVNT      | a    | 5825            | Ant1    | 16.474        |
| NVNT      | n20  | 5745            | Ant1    | 17.67         |
| NVNT      | n20  | 5785            | Ant1    | 17.711        |
| NVNT      | n20  | 5825            | Ant1    | 17.681        |
| NVNT      | n40  | 5755            | Ant1    | 36.08         |
| NVNT      | n40  | 5795            | Ant1    | 36.082        |

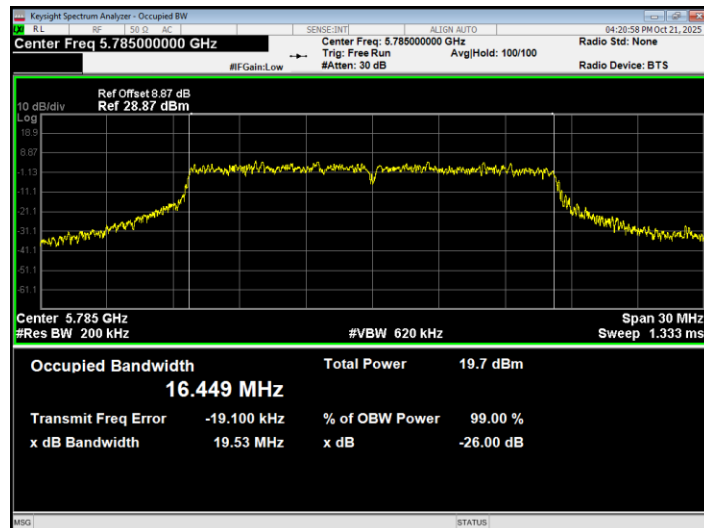


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OBW NVNT a 5745MHz Ant1



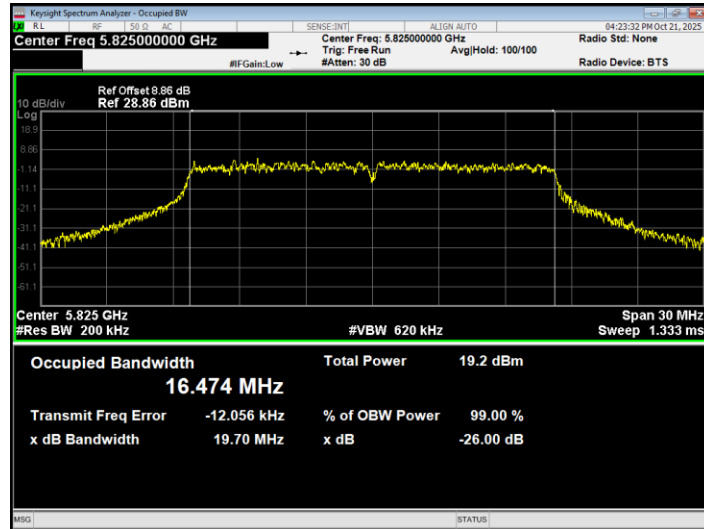
OBW NVNT a 5785MHz Ant1



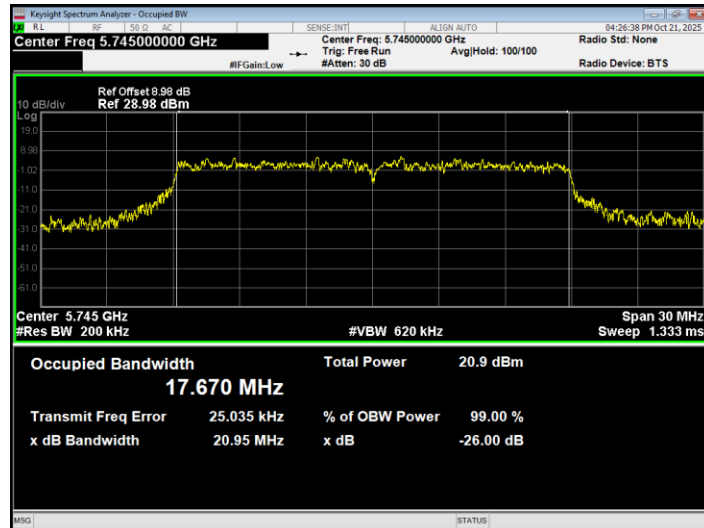


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OBW NVNT a 5825MHz Ant1



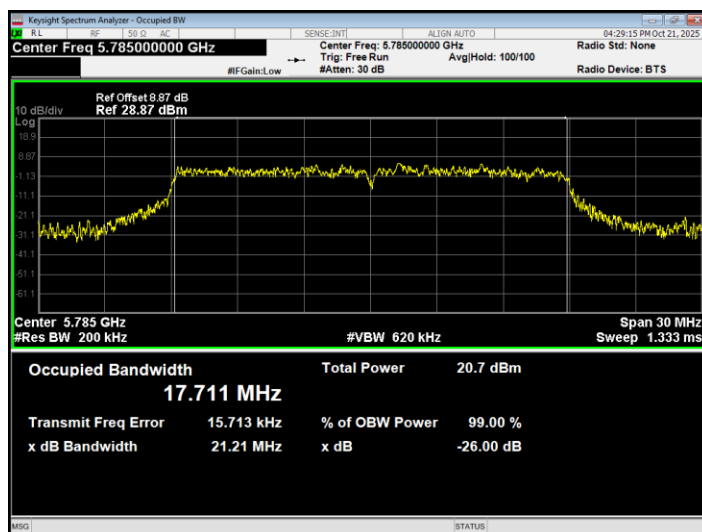
OBW NVNT n20 5745MHz Ant1



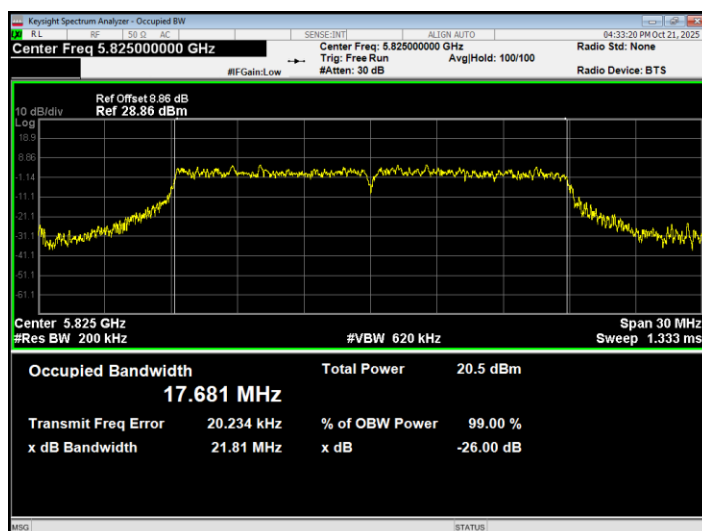


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## OBW NVNT n20 5785MHz Ant1



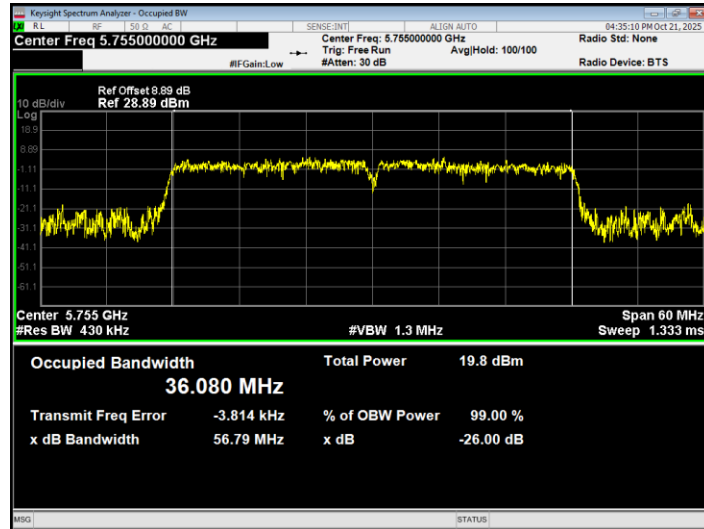
## OBW NVNT n20 5825MHz Ant1



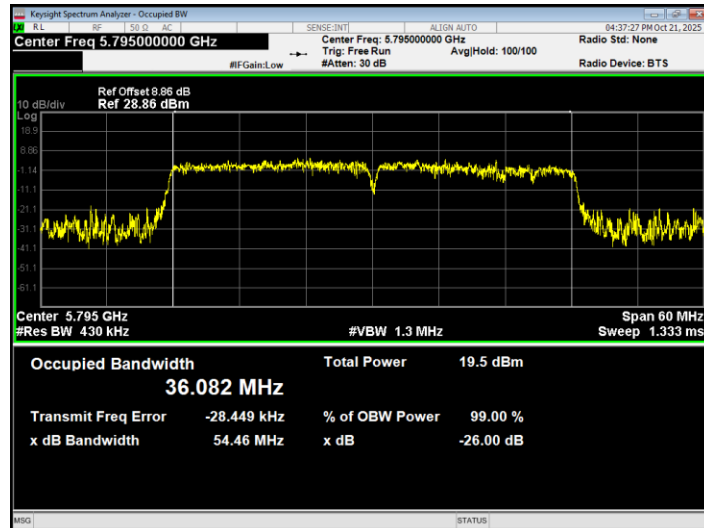


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OBW NVNT n40 5755MHz Ant1



OBW NVNT n40 5795MHz Ant1





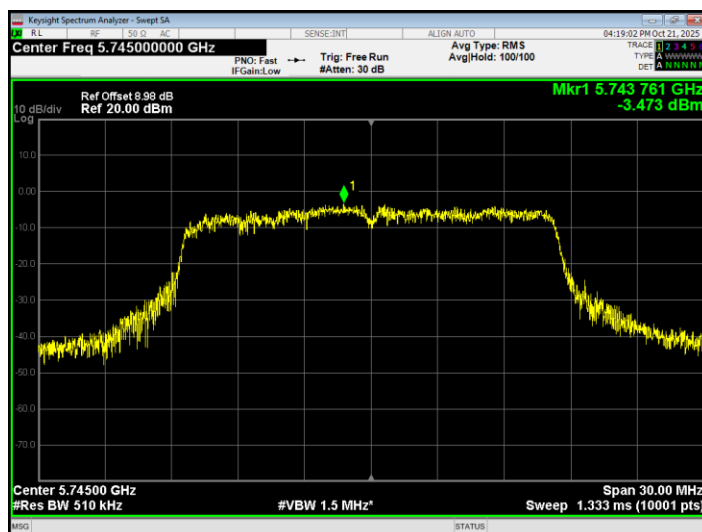
### Maximum Power Spectral Density Level

| Condition | Mode | Frequency (MHz) | Antenna | Max PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------|------------------|-----------------|-------------|---------|
| NVNT      | a    | 5745            | Ant1    | -3.473        | 6.99             | 3.517           | 30          | Pass    |
| NVNT      | a    | 5785            | Ant1    | -4.058        | 7.17             | 3.112           | 30          | Pass    |
| NVNT      | a    | 5825            | Ant1    | -3.989        | 7.13             | 3.141           | 30          | Pass    |
| NVNT      | n20  | 5745            | Ant1    | -3.287        | 7.28             | 3.993           | 30          | Pass    |
| NVNT      | n20  | 5785            | Ant1    | -3.321        | 7.44             | 4.119           | 30          | Pass    |
| NVNT      | n20  | 5825            | Ant1    | -3.515        | 7.28             | 3.765           | 30          | Pass    |
| NVNT      | n40  | 5755            | Ant1    | -8.19         | 9.39             | 1.2             | 30          | Pass    |
| NVNT      | n40  | 5795            | Ant1    | -7.369        | 9.39             | 2.021           | 30          | Pass    |

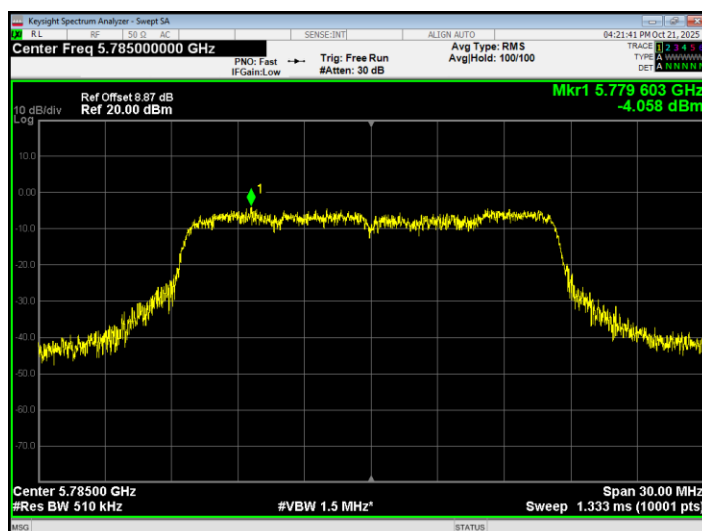


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PSD NVNT a 5745MHz Ant1



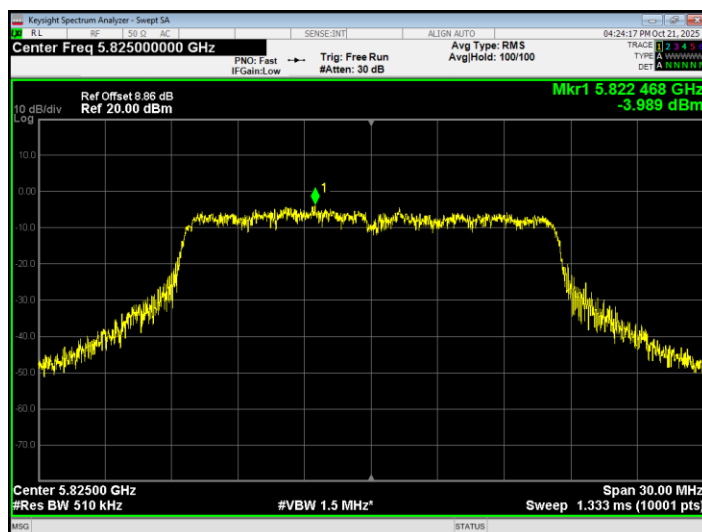
PSD NVNT a 5785MHz Ant1



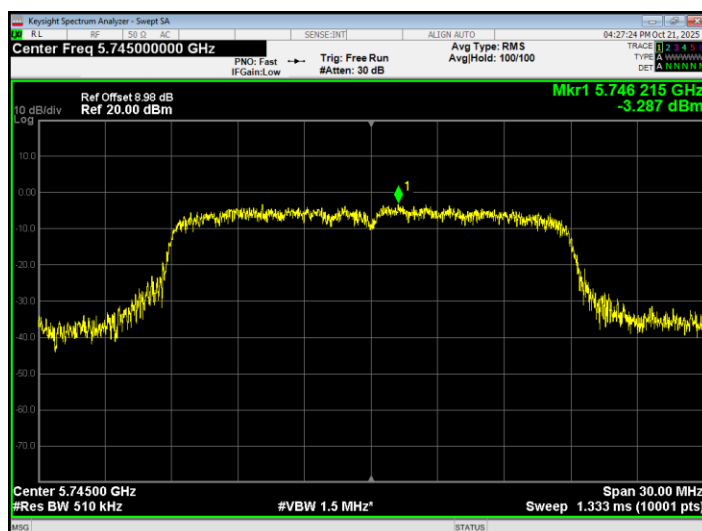


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PSD NVNT a 5825MHz Ant1



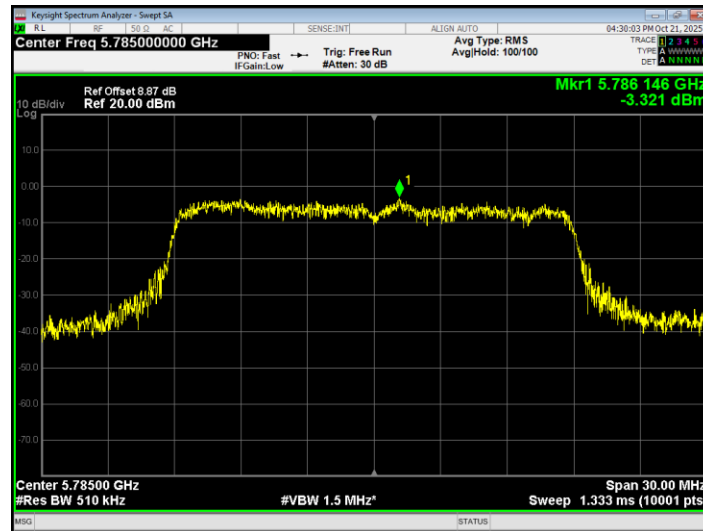
PSD NVNT n20 5745MHz Ant1





Shenzhen DL Testing Technology Co., Ltd.

PSD NVNT n20 5785MHz Ant1



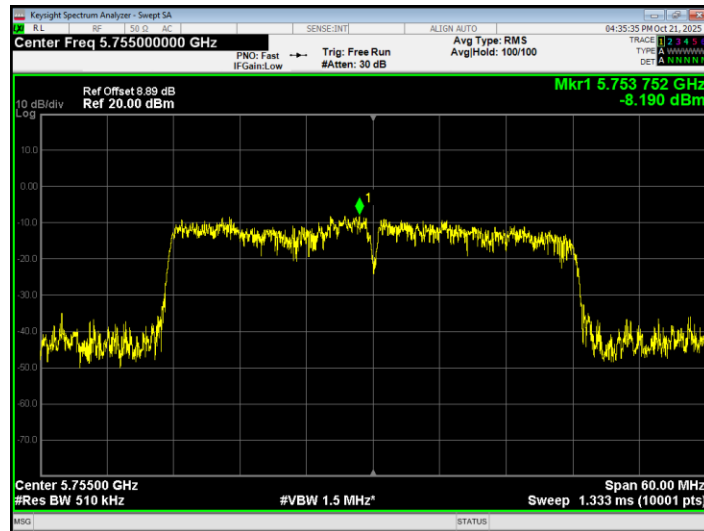
PSD NVNT n20 5825MHz Ant1





Shenzhen DL Testing Technology Co., Ltd.

PSD NVNT n40 5755MHz Ant1



PSD NVNT n40 5795MHz Ant1

