

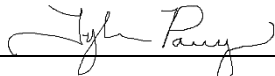


427 West 12800 South  
Draper, UT 84020

## Test Report Attachment

|                                  |                   |
|----------------------------------|-------------------|
| <b>FCC ID</b>                    | SWX-U7PRO         |
| <b>ISED ID</b>                   | 6545A-U7PRO       |
| <b>Equipment Under Test</b>      | U7-Pro            |
| <b>Test Report Serial Number</b> | TR8554_01         |
| <b>Date of Test</b>              | 30 August 2023    |
| <b>Report Issue Date</b>         | 18 September 2023 |

### Test Personnel

|                             |  |
|-----------------------------|--|
| <b>Testing performed by</b> | Tyler Parry  |
|-----------------------------|--|

### Test Location

Testing was performed at the Unified Compliance Laboratory located at 427 West 12800 South, Draper, UT 84020. Unified Compliance Laboratory is accredited by National Voluntary Laboratory Accreditation Program (NVLAP); NVLAP Code 600241-0 which is effective until 30 June 2023. This site has also been registered with Innovations, Science and Economic Development (ISED) department as was accepted under Appendix B, Phase 1 procedures of the APEC Tel MRA for Canadian recognition. ISED No.: 25346, effective until 30 June 2024. Unified Compliance Laboratory has been assigned Conformity Assessment Number US0223 by ISED and MRA US5037.



# 1 UNII-6 Band

## 1.1 Summary

| Test  | Frequency (MHz) | Nominal Power (dBm) | Nominal Bandwidth (MHz) | Result |
|---|-----------------|---------------------|-------------------------|--------|
| Emission Bandwidth 26 dB                          | 6435.000        | 24.0                | 20.000000               | PASS   |
| RF output power                                   | 6435.000        | 24.0                | 20.000000               | PASS   |
| In-Band Emissions                                 | 6435.000        | 24.0                | 20.000000               | PASS   |
| Occupied Channel Bandwidth 99%                    | 6435.000        | 24.0                | 20.000000               | PASS   |
| Frequency Stability                               | 6435.000        | 24.0                | 20.000000               | PASS   |
| Emission Bandwidth 26 dB                          | 6475.000        | 24.0                | 20.000000               | PASS   |
| In-Band Emissions                                 | 6475.000        | 24.0                | 20.000000               | PASS   |
| Occupied Channel Bandwidth 99%                    | 6475.000        | 24.0                | 20.000000               | PASS   |
| Emission Bandwidth 26 dB                          | 6515.000        | 24.0                | 20.000000               | PASS   |
| In-Band Emissions                                 | 6515.000        | 24.0                | 20.000000               | PASS   |
| Occupied Channel Bandwidth 99%                    | 6515.000        | 24.0                | 20.000000               | PASS   |
| Emission Bandwidth 26 dB                          | 6445.000        | 24.0                | 40.000000               | PASS   |
| In-Band Emissions                                 | 6445.000        | 24.0                | 40.000000               | PASS   |
| Occupied Channel Bandwidth 99%                    | 6445.000        | 24.0                | 40.000000               | PASS   |
| Emission Bandwidth 26 dB                          | 6485.000        | 24.0                | 40.000000               | PASS   |
| In-Band Emissions                                 | 6485.000        | 24.0                | 40.000000               | PASS   |
| Occupied Channel Bandwidth 99%                    | 6485.000        | 24.0                | 40.000000               | PASS   |
| Emission Bandwidth 26 dB                          | 6465.000        | 24.0                | 80.000000               | PASS   |
| In-Band Emissions                                 | 6465.000        | 24.0                | 80.000000               | PASS   |
| Occupied Channel Bandwidth 99%                    | 6465.000        | 24.0                | 80.000000               | PASS   |
| Emission Bandwidth 26 dB                          | 6505.000        | 24.0                | 160.000000              | PASS   |
| In-Band Emissions                                 | 6505.000        | 24.0                | 160.000000              | PASS   |
| Occupied Channel Bandwidth 99%                    | 6505.000        | 24.0                | 160.000000              | PASS   |
| Tx Spurious Emission                              | 6505.000        | 24.0                | 160.000000              | PASS   |
| Emissions in restricted frequency bands (Average) | 6505.000        | 24.0                | 160.000000              | PASS   |
| Emissions in restricted frequency bands (Peak)    | 6505.000        | 24.0                | 160.000000              | PASS   |

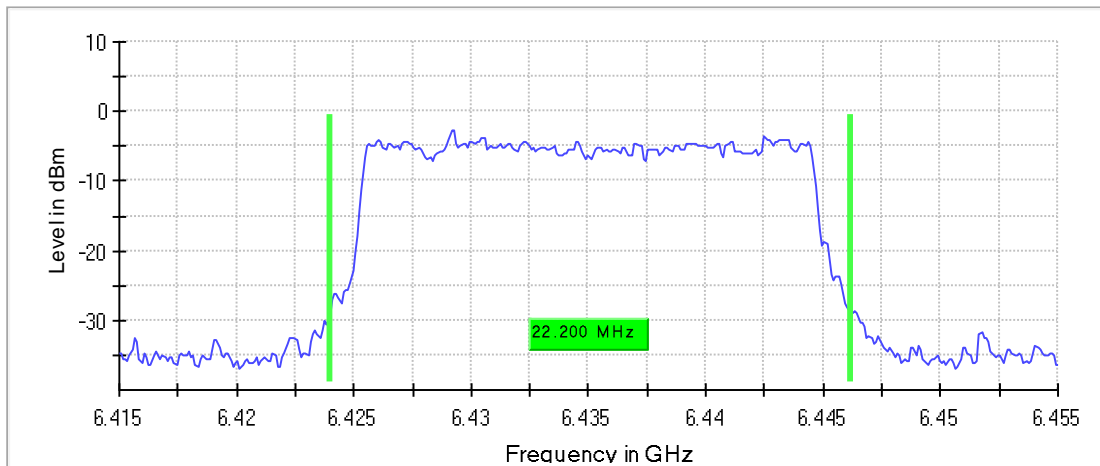
### Emission Bandwidth 26 dB (6435 MHz; 24.000 dBm; 20 MHz)

#### 26 dB Bandwidth

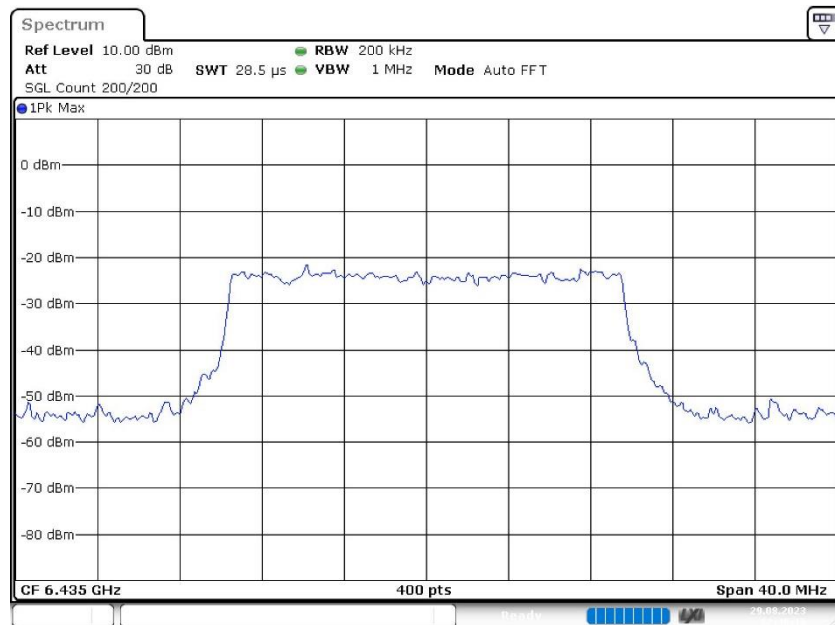
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------|
| 6435.000000         | 22.200000       | ---             | 320.000000      | 6423.950000          | ---            |

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------------|----------------------|-----------------|--------|
| 6435.000000         | 6446.150000           | ---                  | -2.6            | PASS   |

26 dB Bandwidth



**Bandwidth**



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**Measurement**

| Setting         | Instrument Value | Target Value   |
|-----------------|------------------|----------------|
| Start Frequency | 6.41500 GHz      | 6.41500 GHz    |
| Stop Frequency  | 6.45500 GHz      | 6.45500 GHz    |
| Span            | 40.000 MHz       | 40.000 MHz     |
| RBW             | 200.000 kHz      | ~ 200.000 kHz  |
| VBW             | 1.000 MHz        | >= 600.000 kHz |
| SweepPoints     | 400              | ~ 400          |

|                 |                |            |
|-----------------|----------------|------------|
| Sweeptime       | 28.477 $\mu$ s | AUTO       |
| Reference Level | 10.000 dBm     | 10.000 dBm |
| Attenuation     | 30.000 dB      | AUTO       |
| Detector        | MaxPeak        | MaxPeak    |
| SweepCount      | 200            | 200        |
| Filter          | 3 dB           | 3 dB       |
| Trace Mode      | Max Hold       | Max Hold   |
| SweepType       | FFT            | AUTO       |
| Preamp          | off            | off        |

## RF output power (6435 MHz; 24.000 dBm; 20 MHz)

### Result

| DUT Frequency (MHz) | Gated EIRP (dBm) | Limit Max (dBm) | Gated RMS (dBm) | DutyCycle (%) | Result |
|---------------------|------------------|-----------------|-----------------|---------------|--------|
| 6435.000000         | 12.6             | 24.0            | 12.6            | 99.718        | PASS   |

## OSP PowerMeter settings

| Setting          | Instrument Value | Target Value  |
|------------------|------------------|---------------|
| Measurement Time | 1.000 s          | 1.000 s       |
| Points           | 1000000          | 1000000       |
| Time resolution  | 1.000 $\mu$ s    | 1.000 $\mu$ s |

## In-Band Emissions (6435 MHz; 24.000 dBm; 20 MHz)

### Result

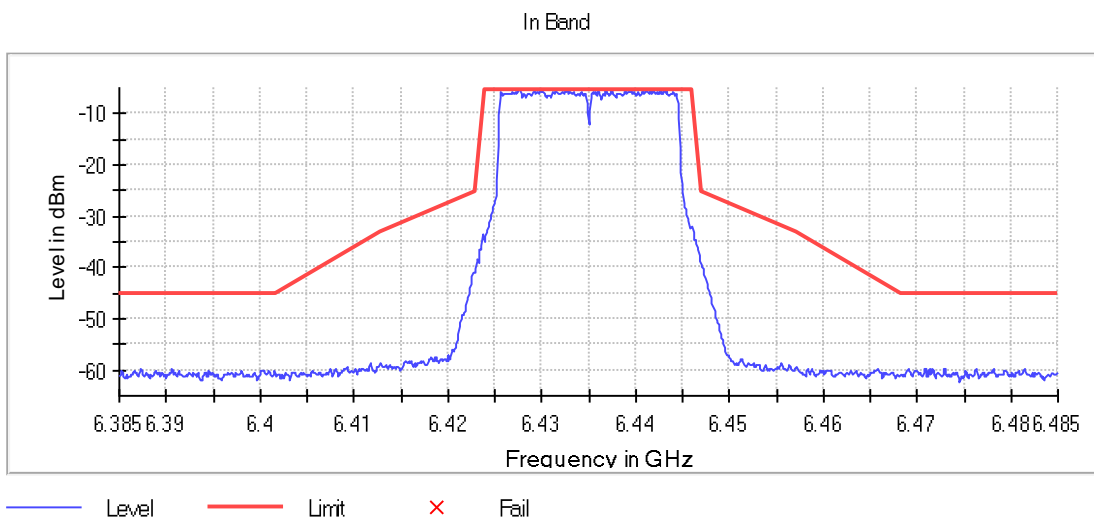
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6435.000000         | PASS   |

## Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 6427.650000     | -5.3        |

## Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 6427.650000     | -5.3        | 0.0         | -5.3        | PASS   |
| 6432.750000     | -5.3        | 0.0         | -5.3        | PASS   |
| 6441.650000     | -5.3        | 0.1         | -5.3        | PASS   |
| 6441.150000     | -5.4        | 0.1         | -5.3        | PASS   |
| 6436.850000     | -5.4        | 0.2         | -5.3        | PASS   |
| 6427.750000     | -5.5        | 0.2         | -5.3        | PASS   |
| 6443.050000     | -5.5        | 0.2         | -5.3        | PASS   |
| 6442.650000     | -5.5        | 0.2         | -5.3        | PASS   |
| 6427.550000     | -5.5        | 0.2         | -5.3        | PASS   |
| 6429.850000     | -5.5        | 0.2         | -5.3        | PASS   |
| 6441.950000     | -5.5        | 0.2         | -5.3        | PASS   |
| 6437.450000     | -5.5        | 0.3         | -5.3        | PASS   |
| 6432.150000     | -5.6        | 0.3         | -5.3        | PASS   |
| 6439.450000     | -5.6        | 0.3         | -5.3        | PASS   |
| 6429.050000     | -5.6        | 0.3         | -5.3        | PASS   |



### Measurement 1

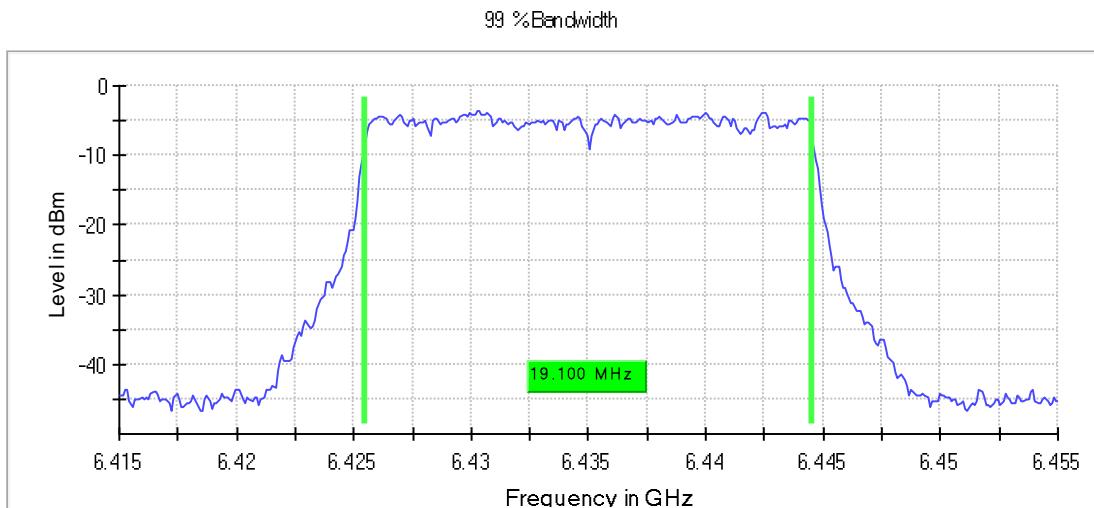
| Setting         | Instrument Value | Target Value  |
|-----------------|------------------|---------------|
| Start Frequency | 6.38500 GHz      | 6.38500 GHz   |
| Stop Frequency  | 6.48500 GHz      | 6.48500 GHz   |
| Span            | 100.000 MHz      | 100.000 MHz   |
| RBW             | 200.000 kHz      | ~ 200.000 kHz |
| VBW             | 500.000 kHz      | ~ 600.000 kHz |
| SweepPoints     | 1000             | ~ 1000        |
| SweepTime       | 1.050 ms         | AUTO          |
| Reference Level | 0.000 dBm        | 0.000 dBm     |
| Attenuation     | 20.000 dB        | 20.000 dB     |
| Detector        | RMS              | RMS           |
| SweepCount      | 100              | 100           |
| Filter          | 3 dB             | 3 dB          |
| Trace Mode      | Average Power    | Average Power |
| SweepType       | Sweep            | Sweep         |
| Preamp          | off              | off           |

**Occupied Channel Bandwidth 99% (6435 MHz; 24.000 dBm; 20 MHz)**

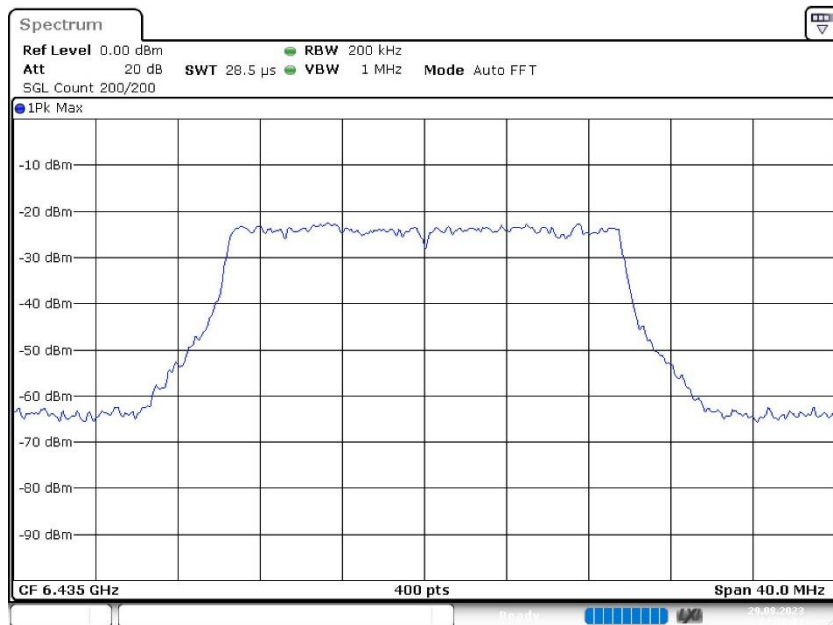
### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------------|
| 6435.000000         | 19.100000       | ---             | 320.000000      | 6425.450000          | 5925.000000          |

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Result |
|---------------------|-----------------------|----------------------|--------|
| 6435.000000         | 6444.550000           | 7125.000000          | PASS   |



**Bandwidth**



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**Measurement**

| Setting         | Instrument Value | Target Value       |
|-----------------|------------------|--------------------|
| Start Frequency | 6.41500 GHz      | 6.41500 GHz        |
| Stop Frequency  | 6.45500 GHz      | 6.45500 GHz        |
| Span            | 40.000 MHz       | 40.000 MHz         |
| RBW             | 200.000 kHz      | $\geq$ 200.000 kHz |
| VBW             | 1.000 MHz        | $\geq$ 600.000 kHz |
| SweepPoints     | 400              | $\sim$ 400         |

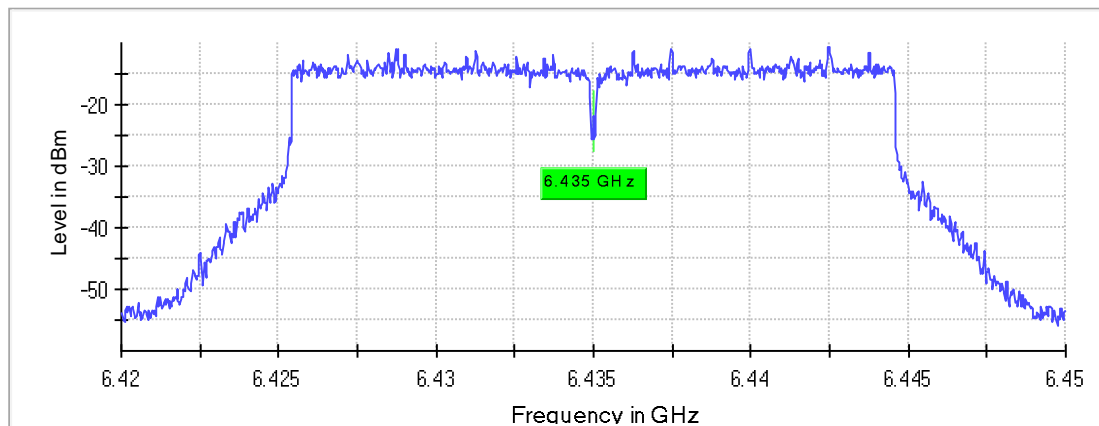
|                 |                |           |
|-----------------|----------------|-----------|
| SweepTime       | 28.477 $\mu$ s | AUTO      |
| Reference Level | 0.000 dBm      | 0.000 dBm |
| Attenuation     | 20.000 dB      | AUTO      |
| Detector        | MaxPeak        | MaxPeak   |
| SweepCount      | 200            | 200       |
| Filter          | 3 dB           | 3 dB      |
| Trace Mode      | Max Hold       | Max Hold  |
| SweepType       | FFT            | AUTO      |
| Preamp          | off            | off       |

## Frequency Stability (6435 MHz; 24.000 dBm; 20 MHz)

### Result

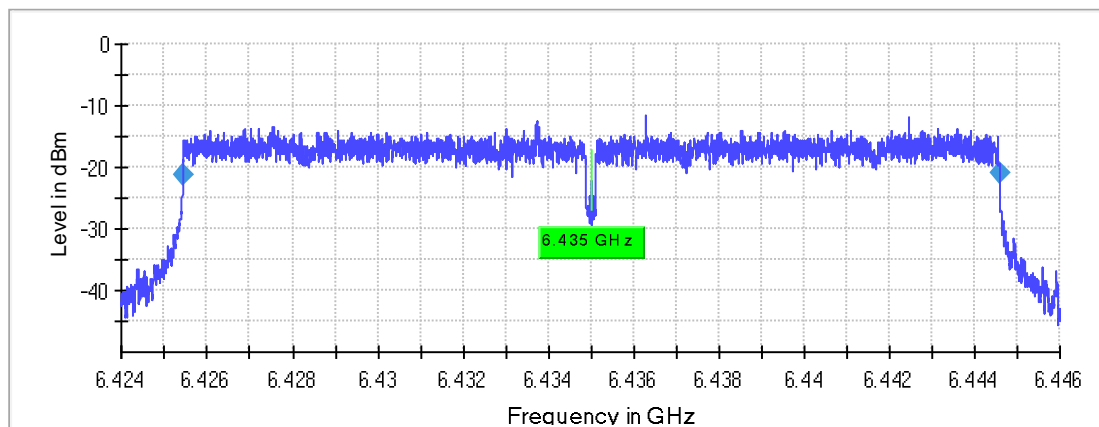
| DUT Frequency (MHz) | Frequency (MHz) | Difference (ppm) | Frequency Difference (kHz) | Limit Min (MHz) | Limit Max (MHz) | Result |
|---------------------|-----------------|------------------|----------------------------|-----------------|-----------------|--------|
| 6435.000000         | 6434.993814     | 0.961            | -6.186000                  | ---             | ---             | PASS   |

Frequency stability Pre



Center frequency Max Hold

Frequency stability



Edge points Max Hold Center frequency

## Measurement

| Setting         | Instrument Value | Target Value  |
|-----------------|------------------|---------------|
| Start Frequency | 6.42399 GHz      | 6.42399 GHz   |
| Stop Frequency  | 6.44599 GHz      | 6.44599 GHz   |
| Span            | 22.000 MHz       | 22.000 MHz    |
| RBW             | 20.000 kHz       | <= 22.000 kHz |
| VBW             | 100.000 kHz      | >= 60.000 kHz |
| SweepPoints     | 10001            | ~ 10001       |
| SweepTime       | 473.902 $\mu$ s  | AUTO          |
| Reference Level | 0.000 dBm        | 0.000 dBm     |
| Attenuation     | 20.000 dB        | AUTO          |
| Detector        | MaxPeak          | MaxPeak       |
| SweepCount      | 50               | 50            |
| Filter          | 3 dB             | 3 dB          |
| Trace Mode      | Max Hold         | Max Hold      |
| SweepType       | FFT              | AUTO          |
| Preamp          | off              | off           |

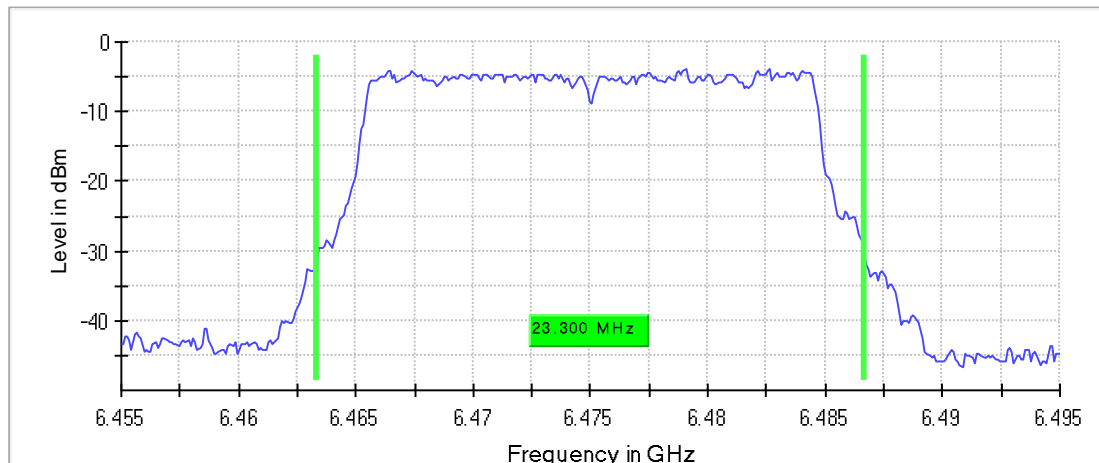
## Emission Bandwidth 26 dB (6475 MHz; 24.000 dBm; 20 MHz)

### 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------|
| 6475.000000         | 23.300000       | ---             | 320.000000      | 6463.350000          | ---            |

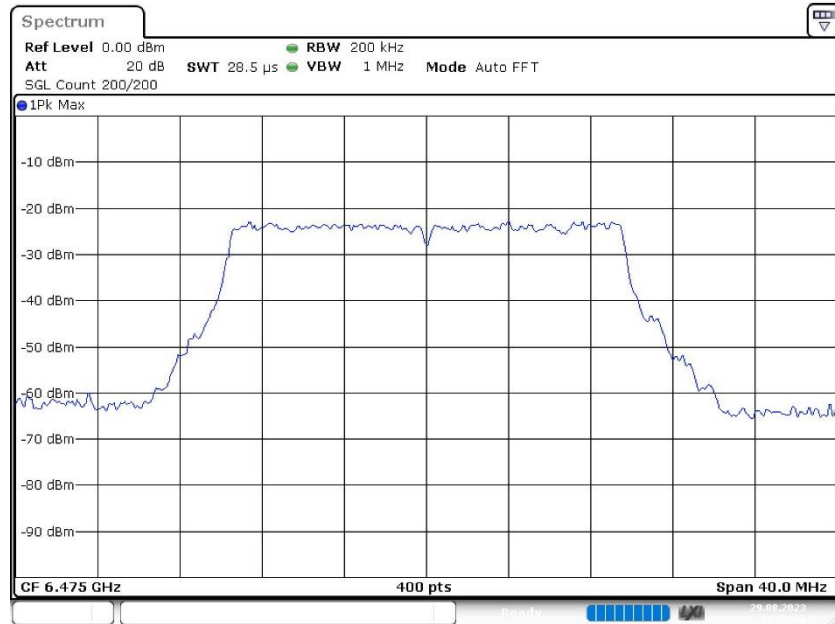
| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------------|----------------------|-----------------|--------|
| 6475.000000         | 6486.650000           | ---                  | -4.0            | PASS   |

26 dB Bandwidth



Bandwidth





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### In-Band Emissions (6475 MHz; 24.000 dBm; 20 MHz)

#### Result

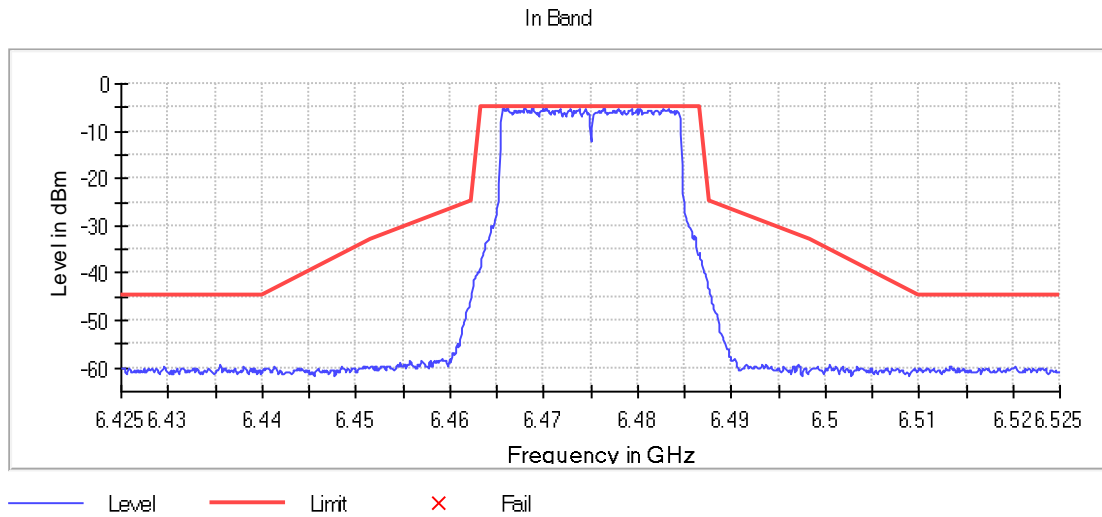
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6475.000000         | PASS   |

#### Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 6468.850000     | -4.9        |

#### Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 6468.850000     | -4.9        | 0.0         | -4.9        | PASS   |
| 6468.750000     | -5.1        | 0.2         | -4.9        | PASS   |
| 6468.050000     | -5.2        | 0.4         | -4.9        | PASS   |
| 6474.450000     | -5.3        | 0.4         | -4.9        | PASS   |
| 6474.550000     | -5.3        | 0.4         | -4.9        | PASS   |
| 6465.750000     | -5.3        | 0.4         | -4.9        | PASS   |
| 6469.950000     | -5.3        | 0.4         | -4.9        | PASS   |
| 6472.850000     | -5.3        | 0.4         | -4.9        | PASS   |
| 6470.250000     | -5.3        | 0.4         | -4.9        | PASS   |
| 6482.750000     | -5.4        | 0.5         | -4.9        | PASS   |
| 6473.850000     | -5.4        | 0.5         | -4.9        | PASS   |
| 6466.050000     | -5.4        | 0.5         | -4.9        | PASS   |
| 6479.950000     | -5.4        | 0.5         | -4.9        | PASS   |
| 6468.150000     | -5.4        | 0.5         | -4.9        | PASS   |
| 6479.350000     | -5.4        | 0.5         | -4.9        | PASS   |

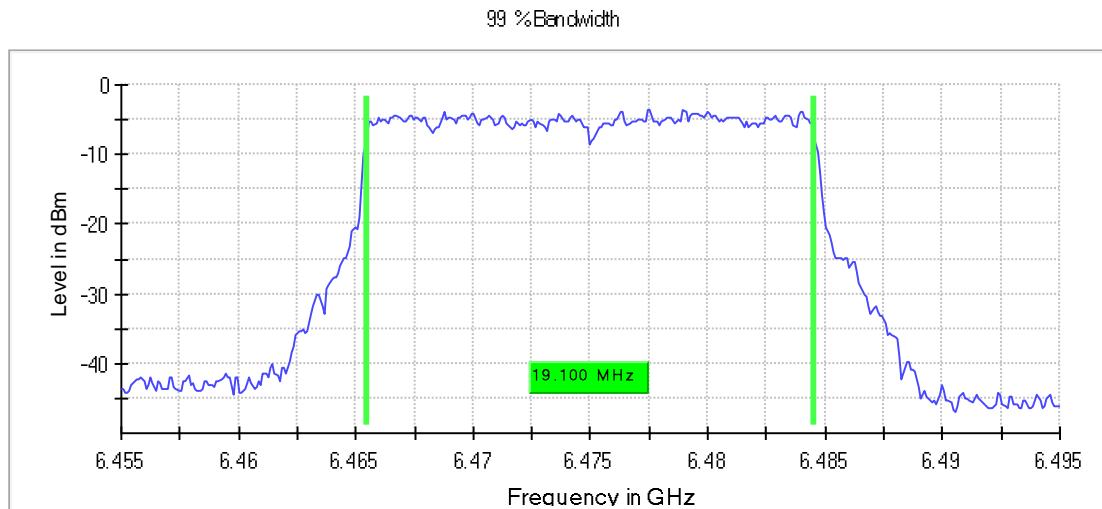


**Occupied Channel Bandwidth 99% (6475 MHz; 24.000 dBm; 20 MHz)**

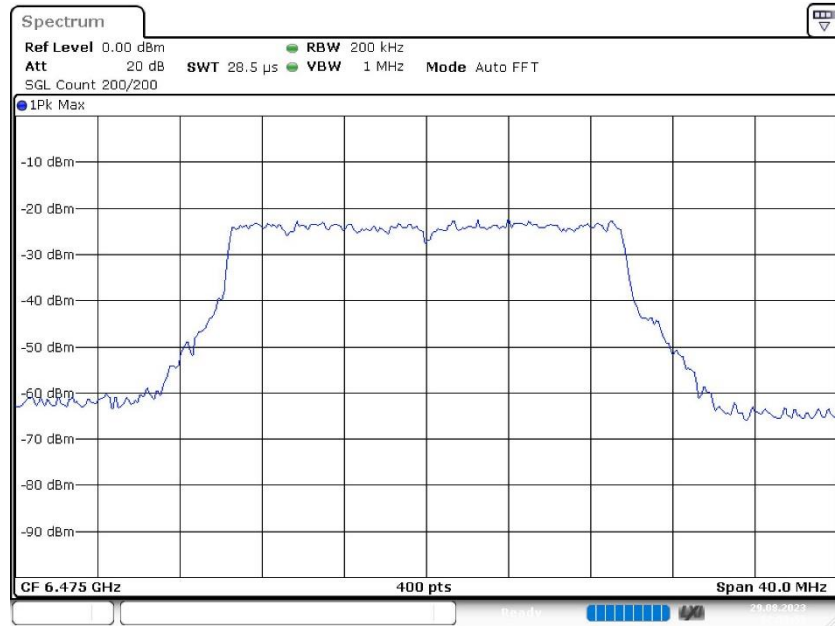
**99 % Bandwidth**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------------|
| 6475.000000         | 19.100000       | ---             | 320.000000      | 6465.450000          | 5925.000000          |

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Result |
|---------------------|-----------------------|----------------------|--------|
| 6475.000000         | 6484.550000           | 7125.000000          | PASS   |



Bandwidth



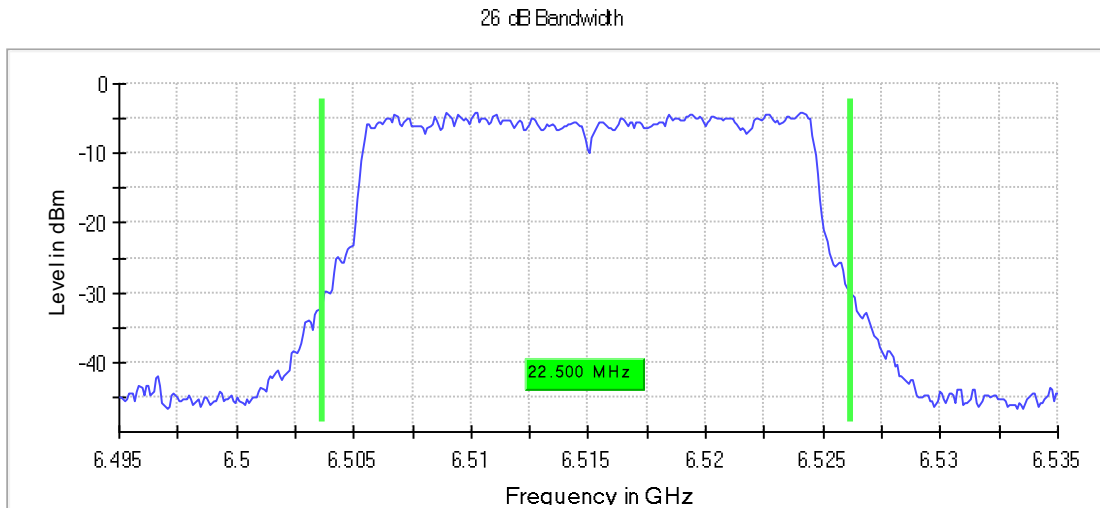
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## Emission Bandwidth 26 dB (6515 MHz; 24.000 dBm; 20 MHz)

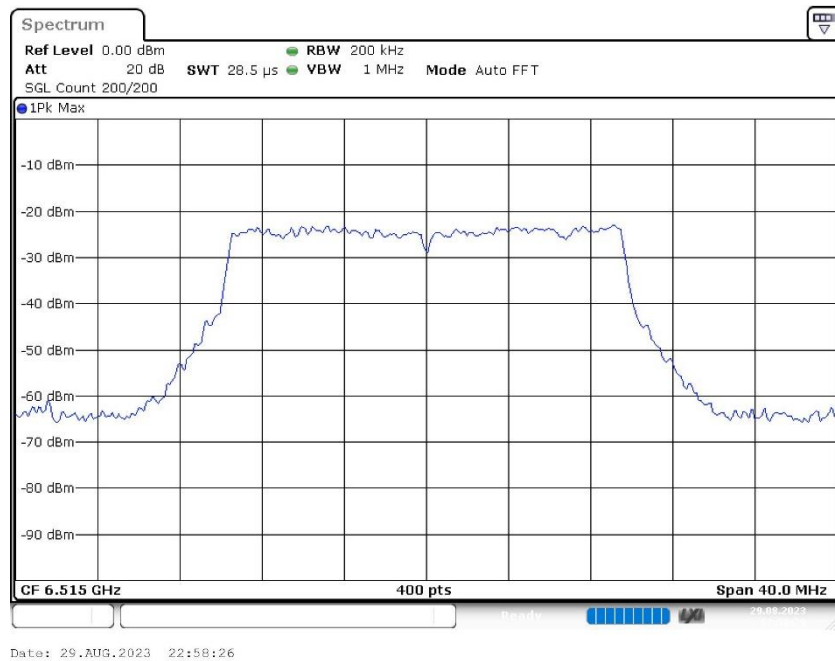
### 26 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------|
| 6515.000000         | 22.500000       | ---             | 320.000000      | 6503.650000          | ---            |

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------------|----------------------|-----------------|--------|
| 6515.000000         | 6526.150000           | ---                  | -4.1            | PASS   |



Bandwidth



**In-Band Emissions (6515 MHz; 24.000 dBm; 20 MHz)**

**Result**

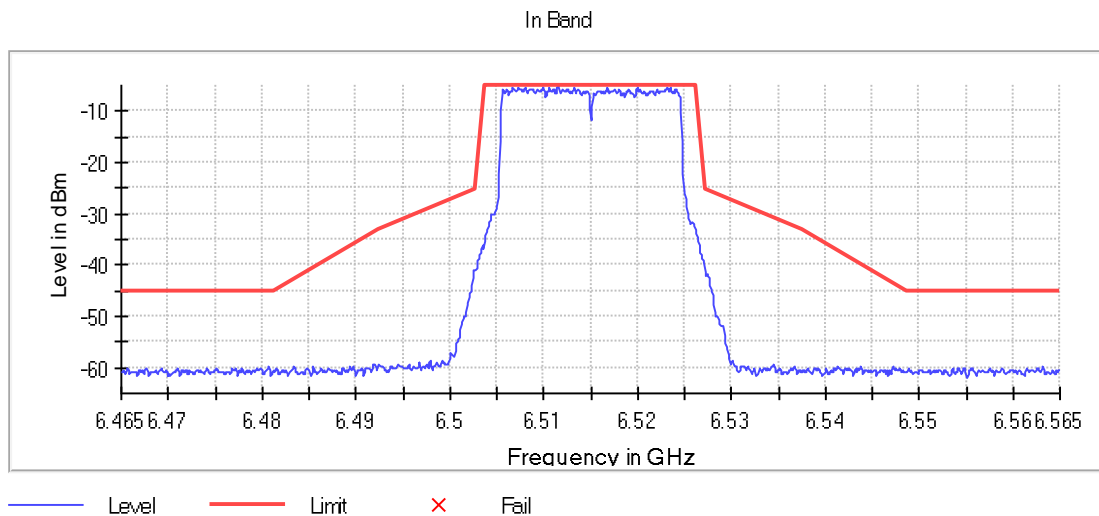
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6515.000000         | PASS   |

## Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 6511.550000     | -5.2        |

## Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 6511.550000     | -5.2        | 0.0         | -5.2        | PASS   |
| 6508.050000     | -5.3        | 0.2         | -5.2        | PASS   |
| 6523.550000     | -5.3        | 0.2         | -5.2        | PASS   |
| 6519.950000     | -5.4        | 0.2         | -5.2        | PASS   |
| 6513.250000     | -5.4        | 0.2         | -5.2        | PASS   |
| 6511.650000     | -5.4        | 0.2         | -5.2        | PASS   |
| 6509.950000     | -5.4        | 0.3         | -5.2        | PASS   |
| 6523.150000     | -5.4        | 0.3         | -5.2        | PASS   |
| 6506.750000     | -5.4        | 0.3         | -5.2        | PASS   |
| 6511.450000     | -5.4        | 0.3         | -5.2        | PASS   |
| 6516.850000     | -5.5        | 0.3         | -5.2        | PASS   |
| 6507.350000     | -5.5        | 0.4         | -5.2        | PASS   |
| 6513.350000     | -5.5        | 0.4         | -5.2        | PASS   |
| 6510.650000     | -5.5        | 0.4         | -5.2        | PASS   |
| 6508.850000     | -5.6        | 0.4         | -5.2        | PASS   |

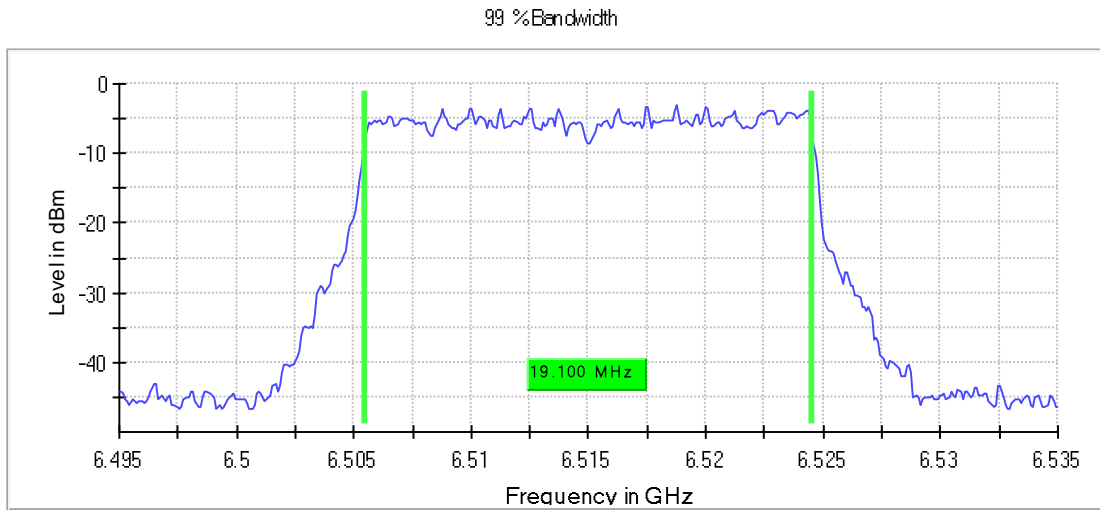


## Occupied Channel Bandwidth 99% (6515 MHz; 24.000 dBm; 20 MHz)

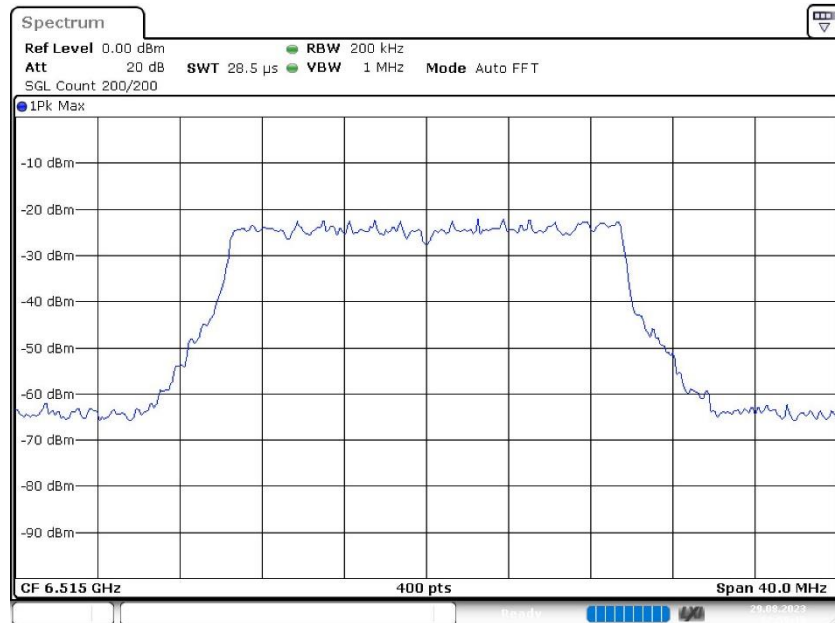
### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------------|
| 6515.000000         | 19.100000       | ---             | 320.000000      | 6505.450000          | 5925.000000          |

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Result |
|---------------------|-----------------------|----------------------|--------|
| 6515.000000         | 6524.550000           | 7125.000000          | PASS   |



**Bandwidth**



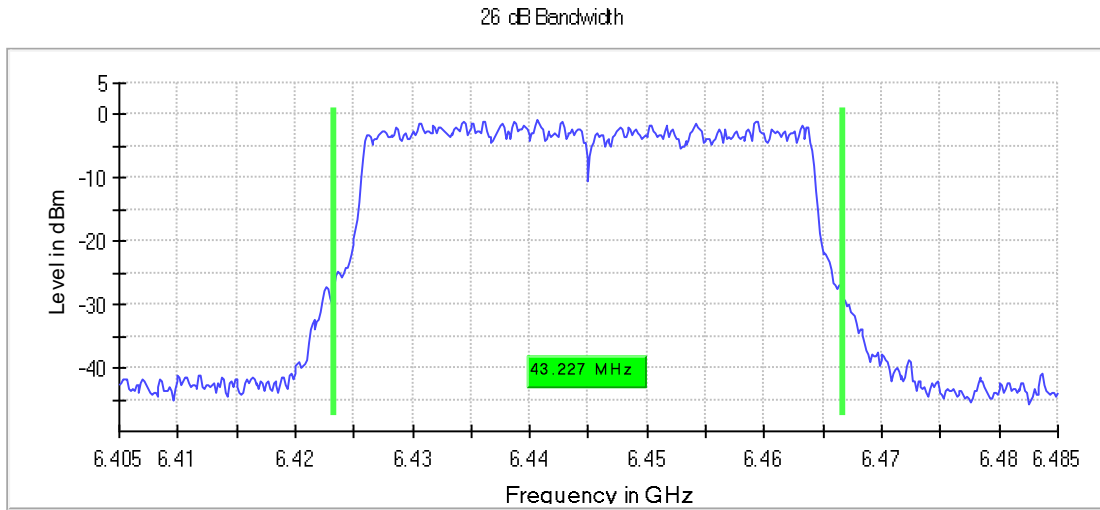
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**Emission Bandwidth 26 dB (6445 MHz; 24.000 dBm; 40 MHz)**

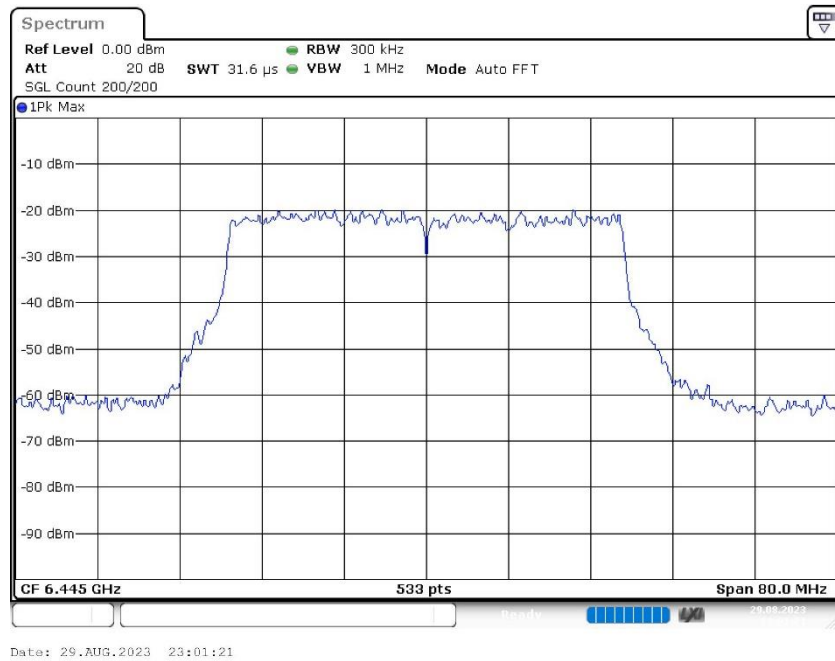
**26 dB Bandwidth**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------|
| 6445.000000         | 43.227016       | ---             | 320.000000      | 6423.386492          | ---            |

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------------|----------------------|-----------------|--------|
| 6445.000000         | 6466.613508           | ---                  | -0.8            | PASS   |



Bandwidth



**In-Band Emissions (6445 MHz; 24.000 dBm; 40 MHz)**

## Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6445.000000         | PASS   |

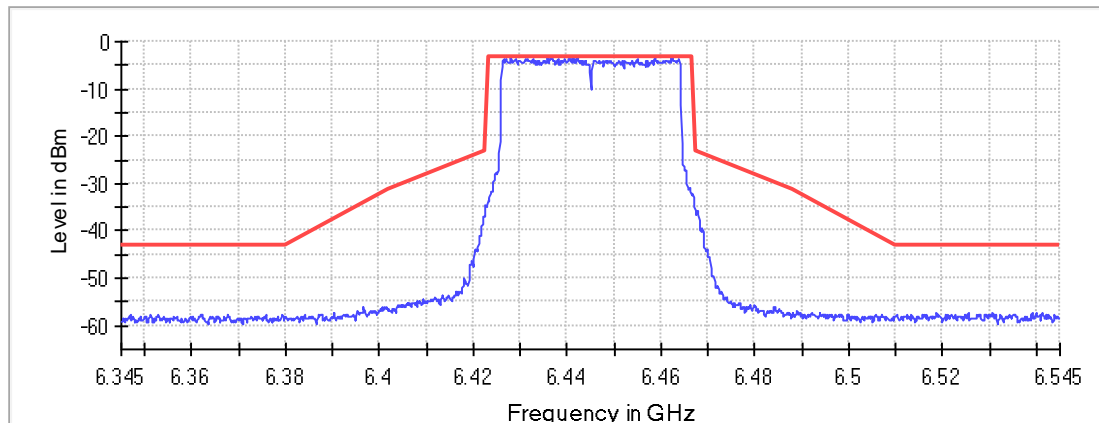
## Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 6462.254314     | -3.3        |

## Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 6462.254314     | -3.3        | 0.0         | -3.3        | PASS   |
| 6458.653413     | -3.3        | 0.1         | -3.3        | PASS   |
| 6441.249062     | -3.4        | 0.1         | -3.3        | PASS   |
| 6436.597899     | -3.4        | 0.1         | -3.3        | PASS   |
| 6462.404351     | -3.4        | 0.1         | -3.3        | PASS   |
| 6442.149287     | -3.4        | 0.1         | -3.3        | PASS   |
| 6435.847712     | -3.4        | 0.2         | -3.3        | PASS   |
| 6428.045761     | -3.4        | 0.2         | -3.3        | PASS   |
| 6441.099025     | -3.4        | 0.2         | -3.3        | PASS   |
| 6429.096024     | -3.5        | 0.3         | -3.3        | PASS   |
| 6431.196549     | -3.5        | 0.3         | -3.3        | PASS   |
| 6439.598650     | -3.6        | 0.3         | -3.3        | PASS   |
| 6463.904726     | -3.6        | 0.3         | -3.3        | PASS   |
| 6458.803451     | -3.6        | 0.3         | -3.3        | PASS   |
| 6432.696924     | -3.7        | 0.4         | -3.3        | PASS   |

In Band



— Level    — Limit    × Fail

## Occupied Channel Bandwidth 99% (6445 MHz; 24.000 dBm; 40 MHz)

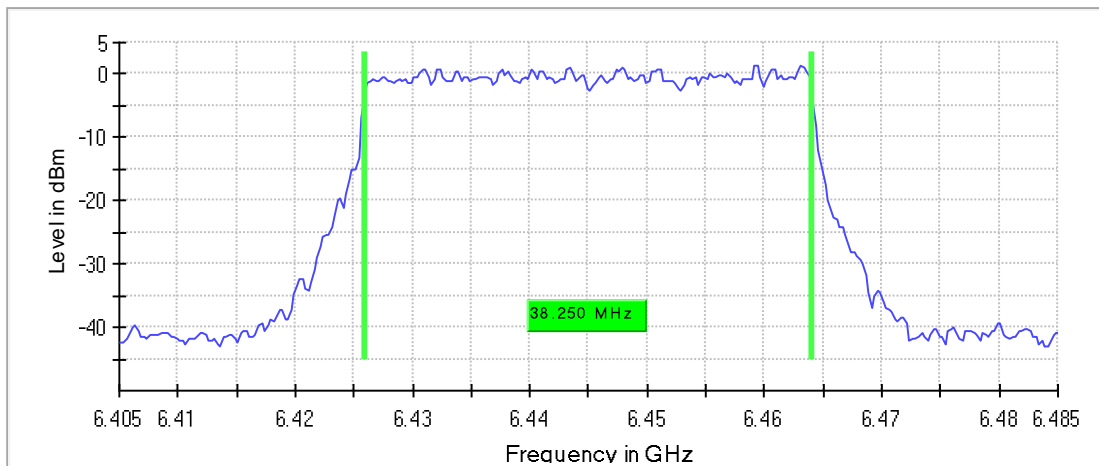
### 99 % Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------------|
| 6445.000000         | 38.250000       | ---             | 320.000000      | 6425.875000          | 5925.000000          |

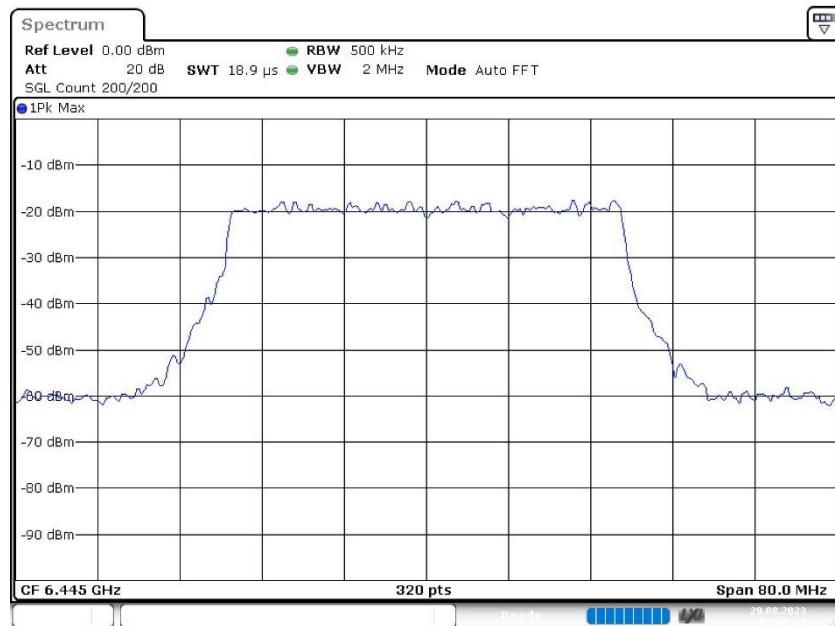


| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Result |
|---------------------|-----------------------|----------------------|--------|
| 6445.000000         | 6464.125000           | 7125.000000          | PASS   |

99 %Bandwidth



Bandwidth



Date: 29.AUG.2023 23:02:13

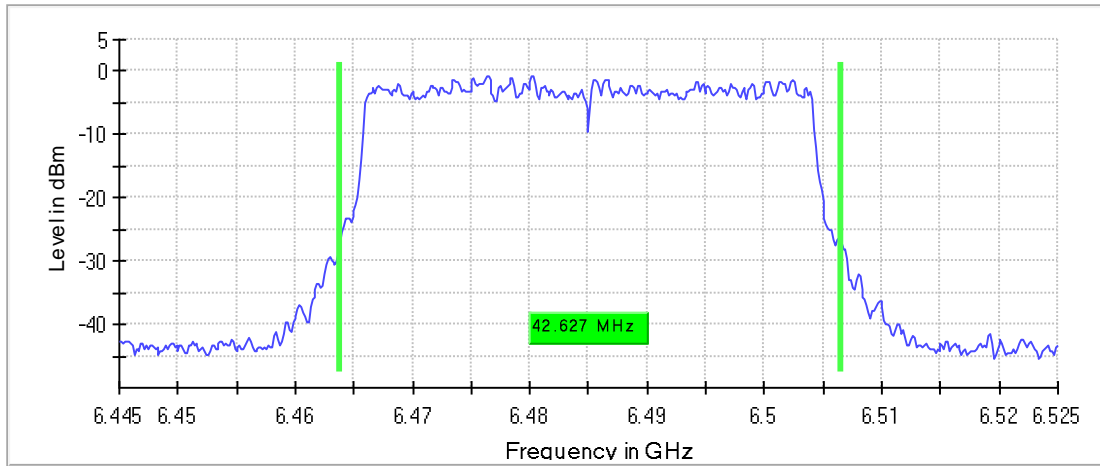
## Emission Bandwidth 26 dB (6485 MHz; 24.000 dBm; 40 MHz)

### 26 dB Bandwidth

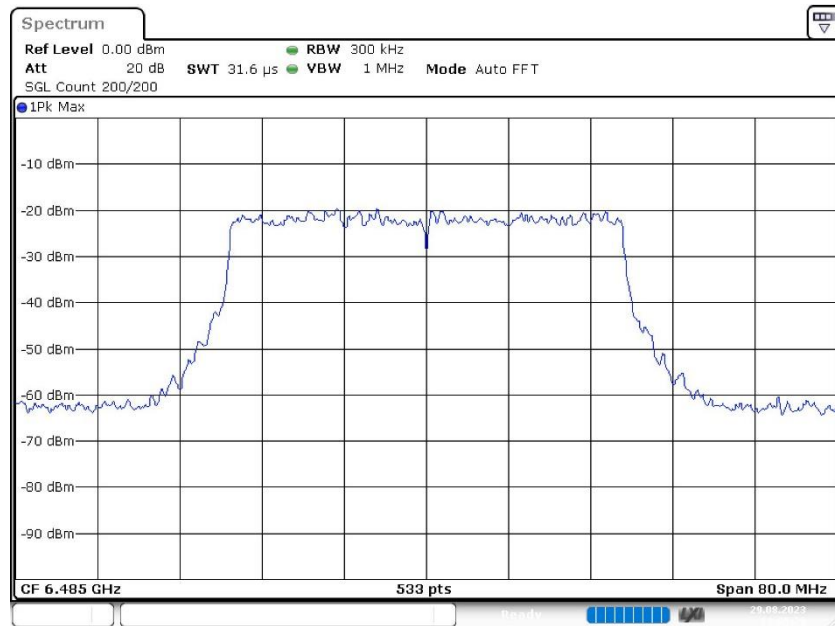
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------|
| 6485.000000         | 42.626642       | ---             | 320.000000      | 6463.836773          | ---            |

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------------|----------------------|-----------------|--------|
| 6485.000000         | 6506.463415           | ---                  | -0.7            | PASS   |

26 dB Bandwidth



Bandwidth



Date: 29.AUG.2023 23:05:27

## In-Band Emissions (6485 MHz; 24.000 dBm; 40 MHz)

### Result

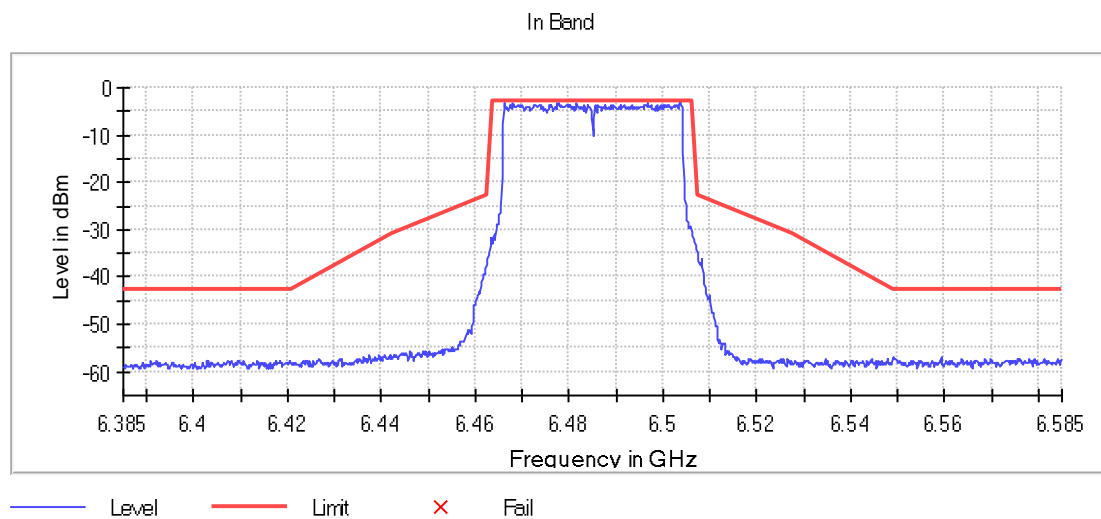
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6485.000000         | PASS   |

### Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 6503.604651     | -2.8        |

### Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 6468.045761     | -3.2        | 0.4         | -2.8        | PASS   |
| 6477.798200     | -3.3        | 0.5         | -2.8        | PASS   |
| 6496.702926     | -3.4        | 0.6         | -2.8        | PASS   |
| 6481.549137     | -3.4        | 0.6         | -2.8        | PASS   |
| 6477.498125     | -3.4        | 0.6         | -2.8        | PASS   |
| 6466.245311     | -3.4        | 0.6         | -2.8        | PASS   |
| 6481.699175     | -3.4        | 0.7         | -2.8        | PASS   |
| 6472.546887     | -3.5        | 0.7         | -2.8        | PASS   |
| 6472.696924     | -3.5        | 0.7         | -2.8        | PASS   |
| 6479.298575     | -3.5        | 0.7         | -2.8        | PASS   |
| 6503.454614     | -3.5        | 0.7         | -2.8        | PASS   |
| 6485.600150     | -3.5        | 0.7         | -2.8        | PASS   |
| 6501.204051     | -3.5        | 0.7         | -2.8        | PASS   |
| 6477.648162     | -3.5        | 0.7         | -2.8        | PASS   |
| 6480.198800     | -3.5        | 0.7         | -2.8        | PASS   |



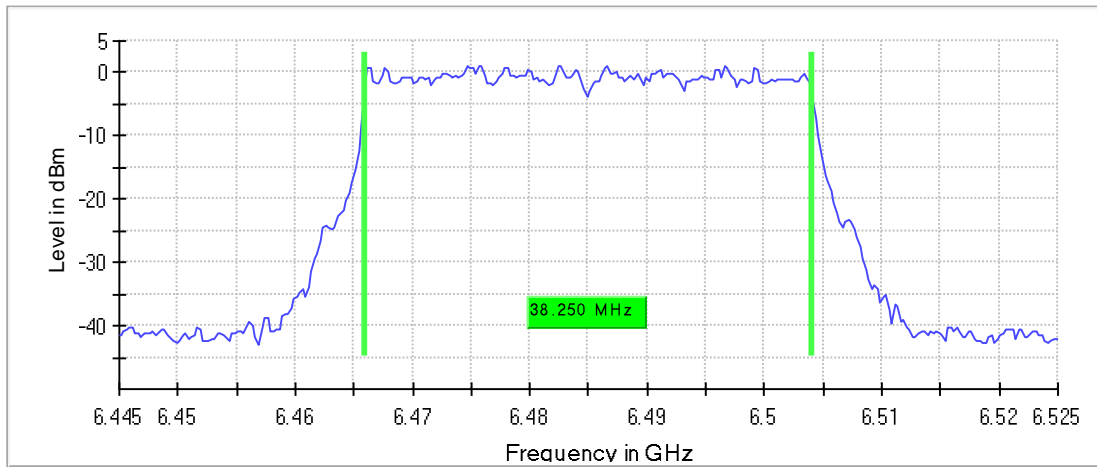
**Occupied Channel Bandwidth 99% (6485 MHz; 24.000 dBm; 40 MHz)**

**99 % Bandwidth**

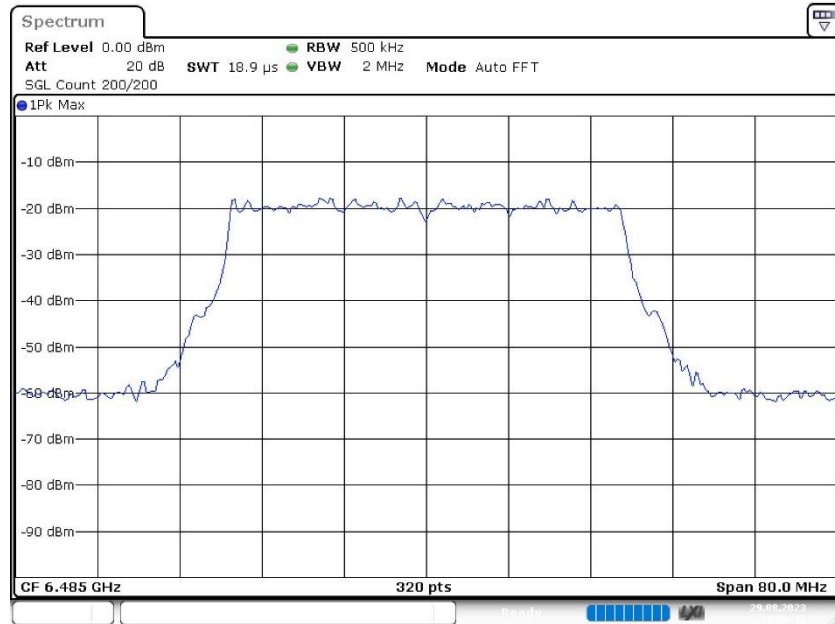
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------------|
| 6485.000000         | 38.250000       | ---             | 320.000000      | 6465.875000          | 5925.000000          |

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Result |
|---------------------|-----------------------|----------------------|--------|
| 6485.000000         | 6504.125000           | 7125.000000          | PASS   |

99 %Bandwidth



Bandwidth



Date: 29.AUG.2023 23:06:19

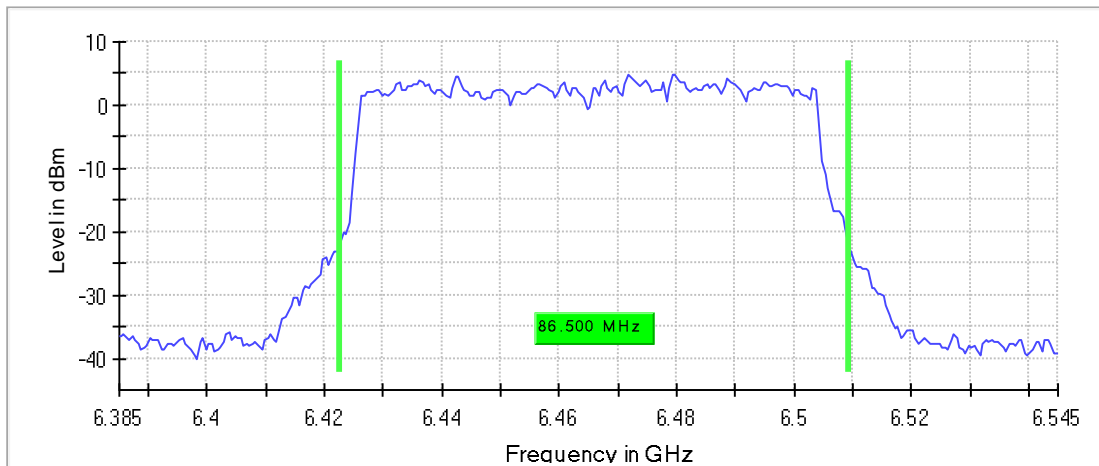
## Emission Bandwidth 26 dB (6465 MHz; 24.000 dBm; 80 MHz)

### 26 dB Bandwidth

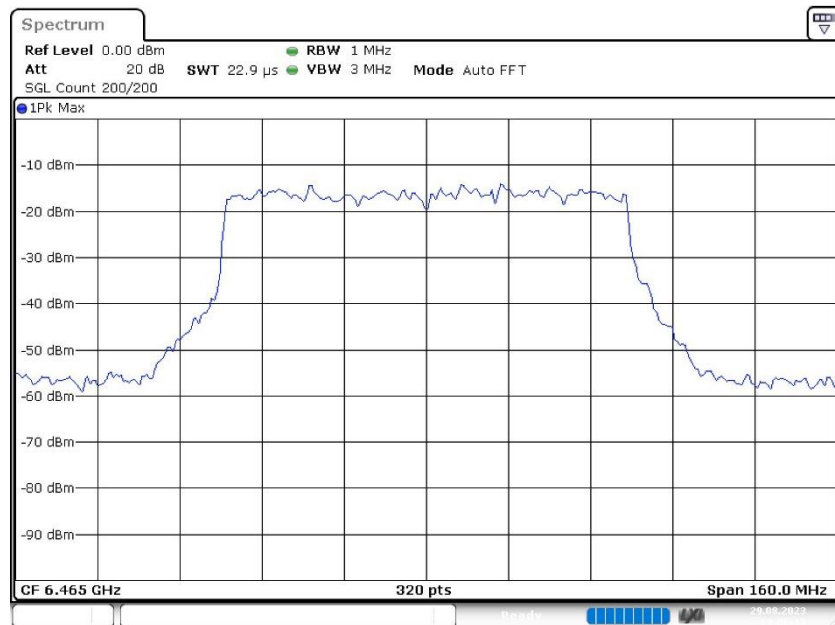
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------|
| 6465.000000         | 86.500000       | ---             | 320.000000      | 6422.750000          | ---            |

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------------|----------------------|-----------------|--------|
| 6465.000000         | 6509.250000           | ---                  | 4.9             | PASS   |

26 dB Bandwidth



**Bandwidth**



Date: 29.AUG.2023 23:08:20

**In-Band Emissions (6465 MHz; 24.000 dBm; 80 MHz)**

**Result**

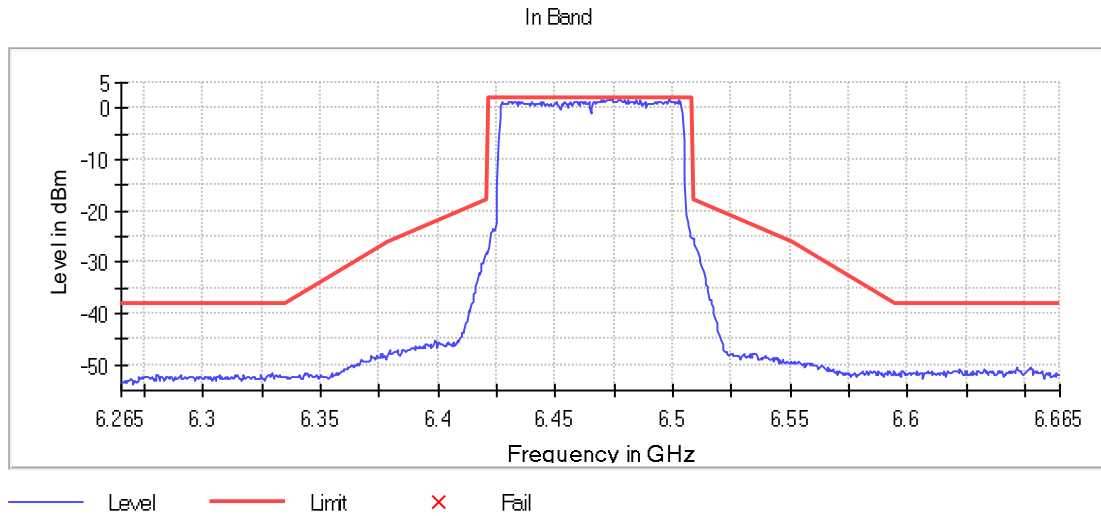
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6465.000000         | PASS   |

**Inband Peak**

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 6474.250000     | 2.0         |

**Measurements**

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 6474.250000     | 2.0         | 0.0         | 2.0         | PASS   |
| 6498.750000     | 2.0         | 0.0         | 2.0         | PASS   |
| 6473.750000     | 2.0         | 0.0         | 2.0         | PASS   |
| 6476.750000     | 1.7         | 0.3         | 2.0         | PASS   |
| 6471.750000     | 1.7         | 0.3         | 2.0         | PASS   |
| 6472.750000     | 1.6         | 0.4         | 2.0         | PASS   |
| 6477.750000     | 1.6         | 0.4         | 2.0         | PASS   |
| 6484.750000     | 1.6         | 0.4         | 2.0         | PASS   |
| 6477.250000     | 1.6         | 0.4         | 2.0         | PASS   |
| 6486.250000     | 1.5         | 0.5         | 2.0         | PASS   |
| 6470.750000     | 1.5         | 0.5         | 2.0         | PASS   |
| 6479.750000     | 1.5         | 0.5         | 2.0         | PASS   |
| 6502.750000     | 1.5         | 0.5         | 2.0         | PASS   |
| 6480.750000     | 1.5         | 0.5         | 2.0         | PASS   |
| 6498.250000     | 1.5         | 0.5         | 2.0         | PASS   |

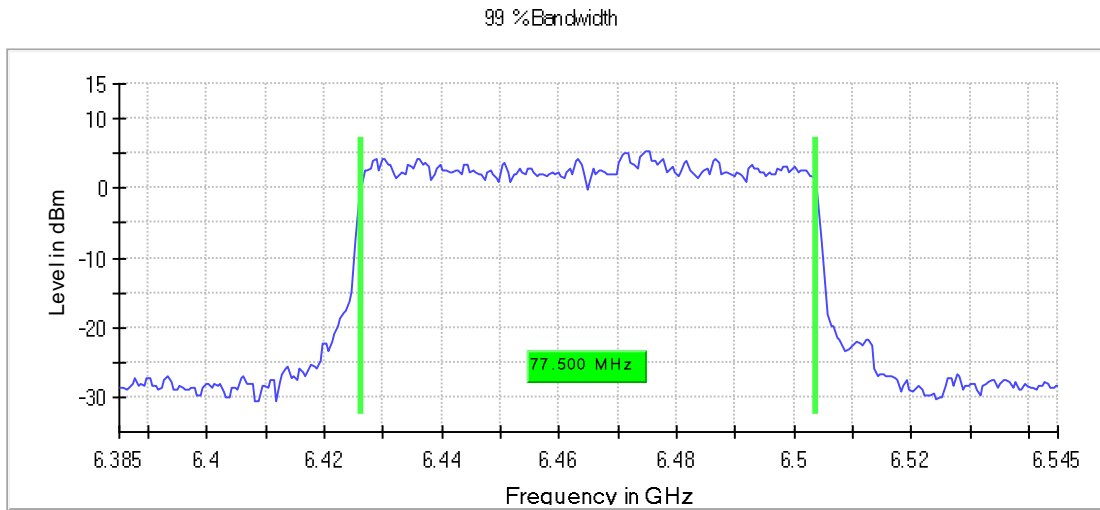


**Occupied Channel Bandwidth 99% (6465 MHz; 24.000 dBm; 80 MHz)**

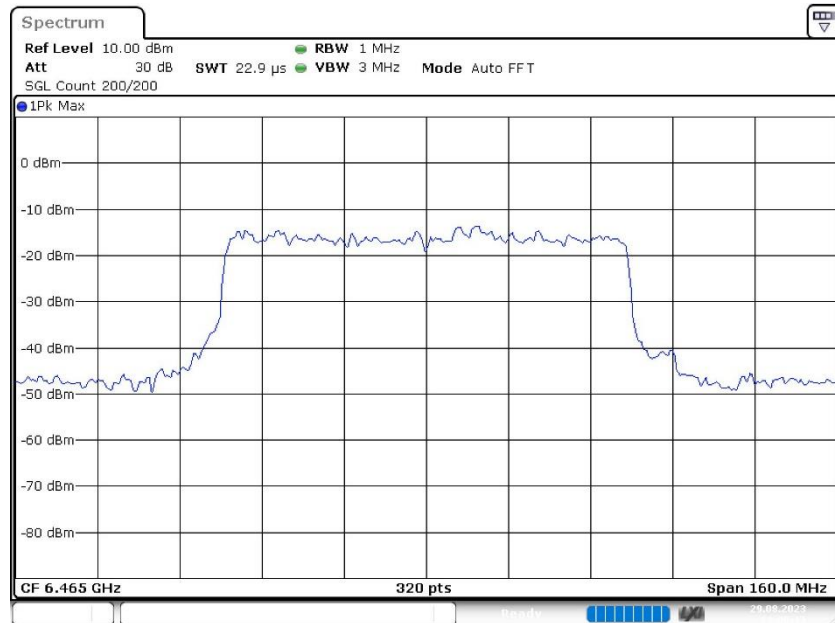
**99 % Bandwidth**

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Limit Min BE L (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|----------------------|
| 6465.000000         | 77.500000       | ---             | 320.000000      | 6426.250000          | 5925.000000          |

| DUT Frequency (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Result |
|---------------------|-----------------------|----------------------|--------|
| 6465.000000         | 6503.750000           | 7125.000000          | PASS   |



**Bandwidth**



Date: 29.AUG.2023 23:09:13

**Emission Bandwidth 26 dB (6505 MHz; 24.000 dBm; 160 MHz)**

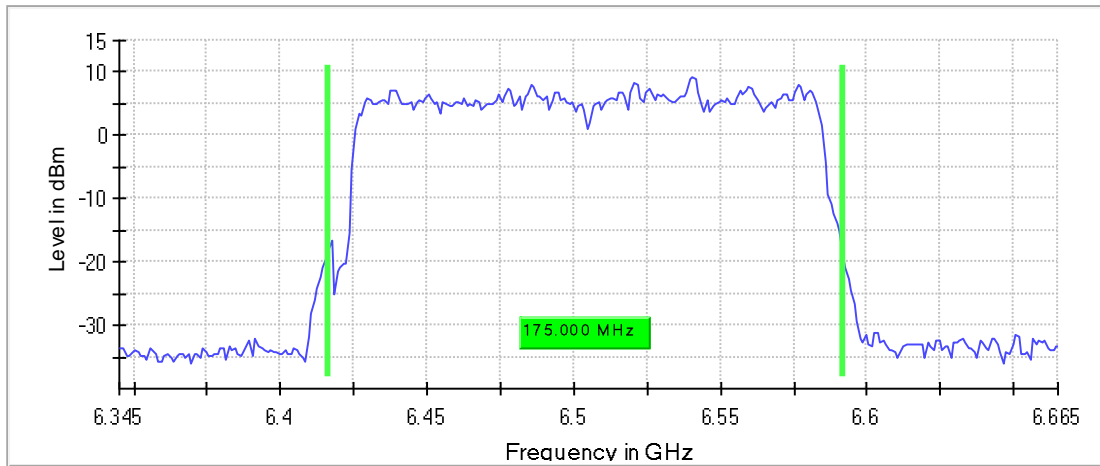
**26 dB Bandwidth**

| DUT Frequency (MHz) | Bandwidth (MHz) | Bandwidth U-NII 6 (MHz) | Bandwidth U-NII 7 (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---------------------|-----------------|-------------------------|-------------------------|-----------------|-----------------|
| 6505.000000         | 175.000000      | 108.500000              | 66.500000               | ---             | 320.000000      |

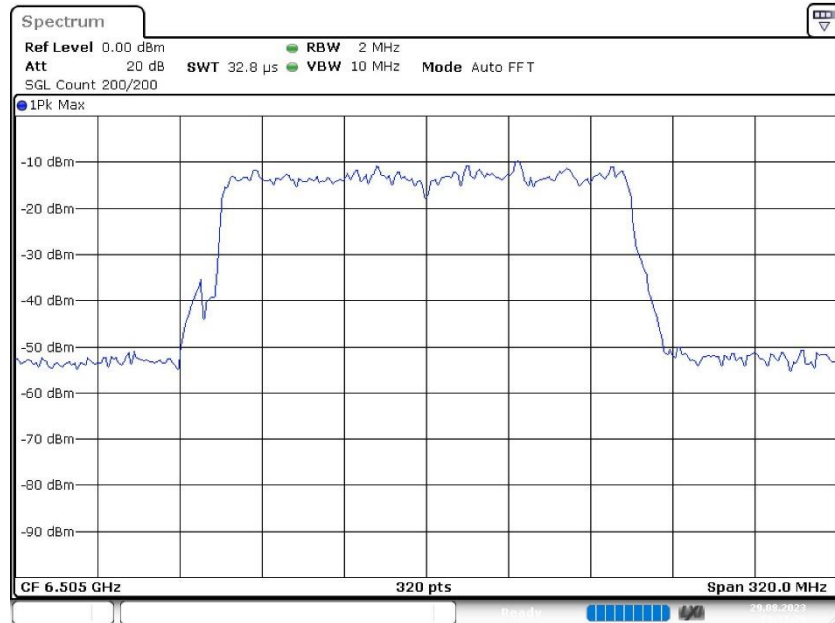


| DUT Frequency (MHz) | Band Edge Left (MHz) | Limit Min BE L (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Max Level (dBm) | Result |
|---------------------|----------------------|----------------------|-----------------------|----------------------|-----------------|--------|
| 6505.000000         | 6416.500000          | ---                  | 6591.500000           | ---                  | 9.2             | PASS   |

26 dB Bandwidth



Bandwidth



Date: 29.AUG.2023 23:11:27

## In-Band Emissions (6505 MHz; 24.000 dBm; 160 MHz)

### Result

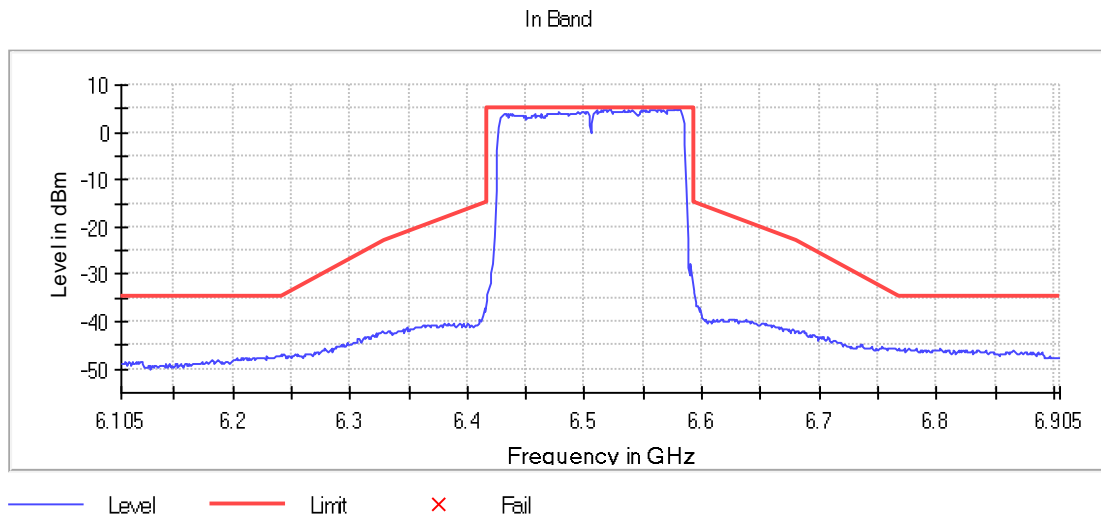
| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6505.000000         | PASS   |

### Inband Peak

| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 6580.500000     | 5.1         |

### Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 6577.500000     | 5.0         | 0.1         | 5.1         | PASS   |
| 6521.500000     | 5.0         | 0.1         | 5.1         | PASS   |
| 6566.500000     | 4.8         | 0.3         | 5.1         | PASS   |
| 6520.500000     | 4.8         | 0.3         | 5.1         | PASS   |
| 6573.500000     | 4.8         | 0.3         | 5.1         | PASS   |
| 6510.500000     | 4.8         | 0.3         | 5.1         | PASS   |
| 6563.500000     | 4.8         | 0.4         | 5.1         | PASS   |
| 6518.500000     | 4.8         | 0.4         | 5.1         | PASS   |
| 6556.500000     | 4.8         | 0.4         | 5.1         | PASS   |
| 6571.500000     | 4.8         | 0.4         | 5.1         | PASS   |
| 6540.500000     | 4.8         | 0.4         | 5.1         | PASS   |
| 6557.500000     | 4.7         | 0.4         | 5.1         | PASS   |
| 6537.500000     | 4.7         | 0.4         | 5.1         | PASS   |
| 6562.500000     | 4.7         | 0.4         | 5.1         | PASS   |
| 6517.500000     | 4.7         | 0.4         | 5.1         | PASS   |



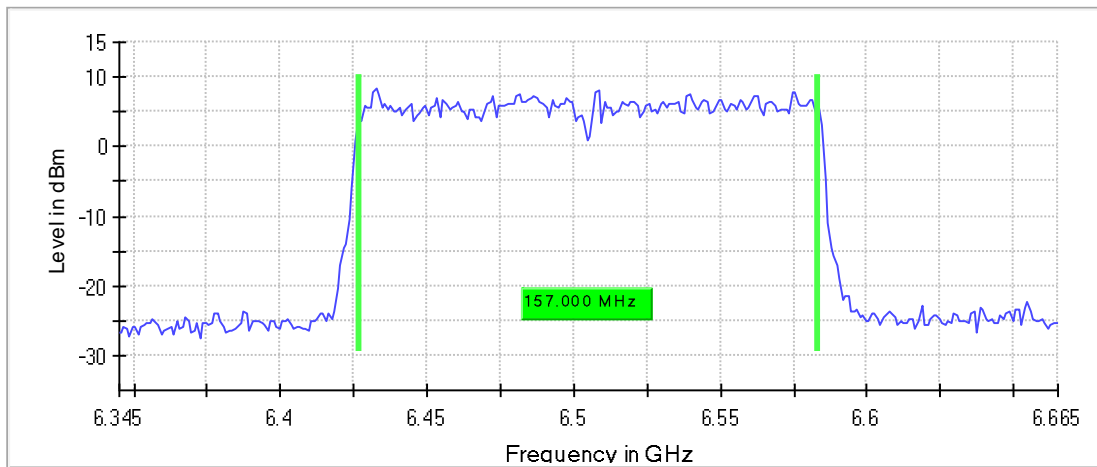
**Occupied Channel Bandwidth 99% (6505 MHz; 24.000 dBm; 160 MHz)**

**99 % Bandwidth**

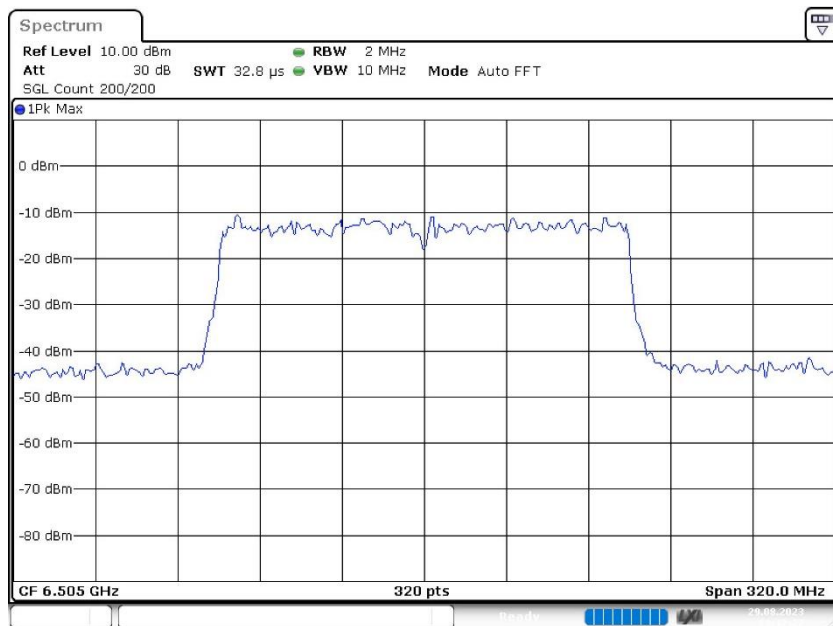
| DUT Frequency (MHz) | Bandwidth (MHz) | Bandwidth U-NII 6 (MHz) | Bandwidth U-NII 7 (MHz) | Limit Min (MHz) | Limit Max (MHz) |
|---------------------|-----------------|-------------------------|-------------------------|-----------------|-----------------|
| 6505.000000         | 157.000000      | 98.500000               | 58.500000               | ---             | 320.000000      |

| DUT Frequency (MHz) | Band Edge Left (MHz) | Limit Min BE L (MHz) | Band Edge Right (MHz) | Limit Max BE R (MHz) | Result |
|---------------------|----------------------|----------------------|-----------------------|----------------------|--------|
| 6505.000000         | 6426.500000          | 5925.000000          | 6583.500000           | 7125.000000          | PASS   |

99 %Bandwidth



Bandwidth



## Tx Spurious Emission (6505 MHz; 24.000 dBm; 160 MHz)

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6505.000000         | PASS   |

### Final measurements

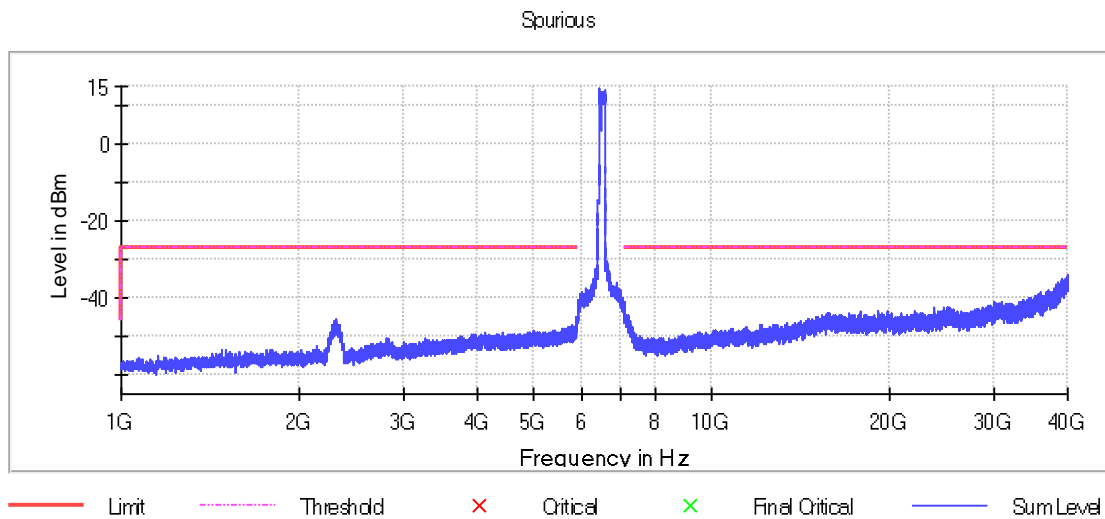
| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| ---             | ---                         | ---         | ---         | ---         | ---    |

### Pre Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 39941.250000    | -34.1       | 7.1         | -27.0       |
| 39981.250000    | -34.7       | 7.7         | -27.0       |
| 39991.750000    | -34.7       | 7.7         | -27.0       |
| 39862.750000    | -34.9       | 7.9         | -27.0       |
| 39939.250000    | -34.9       | 7.9         | -27.0       |
| 39954.750000    | -34.9       | 7.9         | -27.0       |
| 39860.250000    | -35.0       | 8.0         | -27.0       |
| 39799.750000    | -35.0       | 8.0         | -27.0       |
| 39794.250000    | -35.0       | 8.0         | -27.0       |
| 39076.250000    | -35.0       | 8.0         | -27.0       |
| 39939.750000    | -35.0       | 8.0         | -27.0       |
| 39941.750000    | -35.1       | 8.1         | -27.0       |
| 39996.250000    | -35.1       | 8.1         | -27.0       |
| 39781.750000    | -35.1       | 8.1         | -27.0       |
| 39137.250000    | -35.1       | 8.1         | -27.0       |

## Measurement Settings

| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 1000.000000           | 5925.000000          | 2               | 2                 |
| 5925.000000           | 7125.000000          | 2               | 2                 |
| 7125.000000           | 18000.000000         | 2               | 2                 |
| 18000.000000          | 26000.000000         | 2               | 2                 |
| 26000.000000          | 40000.000000         | 2               | 2                 |



## Emissions in restricted frequency bands (Average) (6505 MHz; 24.000 dBm; 160 MHz)

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6505.000000         | PASS   |

### Final measurements

| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| ---             | ---                         | ---         | ---         | ---         | ---    |

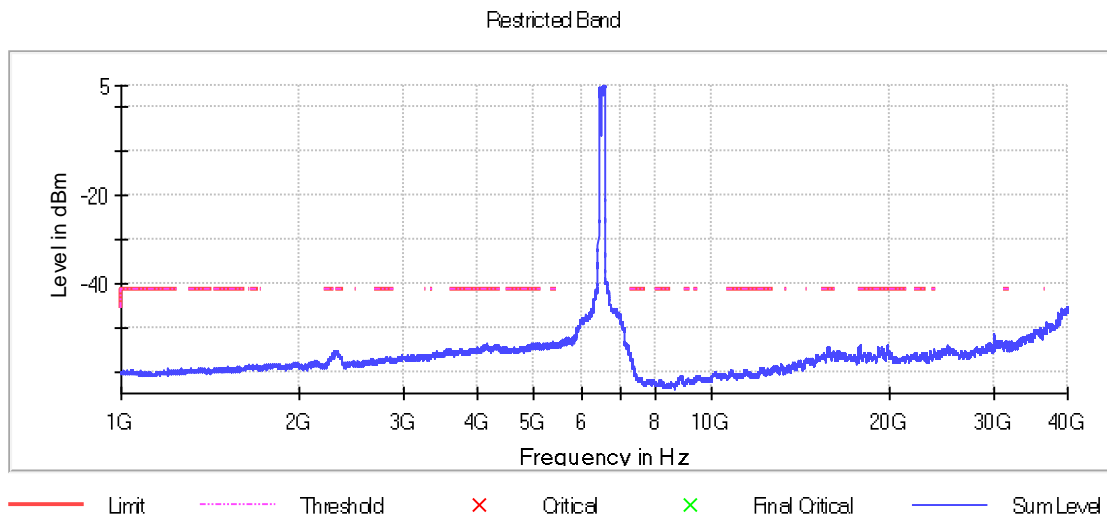
### Pre Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 36490.078435    | -50.7       | 9.5         | -41.2       |
| 36493.515828    | -50.7       | 9.5         | -41.2       |
| 36452.267117    | -50.7       | 9.5         | -41.2       |
| 36488.703478    | -50.7       | 9.5         | -41.2       |
| 36477.703822    | -50.7       | 9.5         | -41.2       |
| 36497.640699    | -50.8       | 9.6         | -41.2       |
| 36499.703134    | -50.8       | 9.6         | -41.2       |
| 36495.578263    | -50.8       | 9.6         | -41.2       |

|              |       |     |       |
|--------------|-------|-----|-------|
| 36481.828693 | -50.8 | 9.6 | -41.2 |
| 36475.641386 | -50.8 | 9.6 | -41.2 |
| 36435.080154 | -50.8 | 9.6 | -41.2 |
| 36459.829380 | -50.8 | 9.6 | -41.2 |
| 36491.453392 | -50.8 | 9.6 | -41.2 |
| 36430.955283 | -50.8 | 9.6 | -41.2 |
| 36482.516171 | -50.8 | 9.6 | -41.2 |

## Measurement Settings

| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 1000.000000           | 5925.000000          | 1               | 1                 |
| 5925.000000           | 7125.000000          | 1               | 1                 |
| 7125.000000           | 18000.000000         | 1               | 1                 |
| 18000.000000          | 40000.000000         | 1               | 1                 |



## Emissions in restricted frequency bands (Peak) (6505 MHz; 24.000 dBm; 160 MHz)

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 6505.000000         | PASS   |

### Final measurements

| Frequency (MHz) | Level Pre Measurement (dBm) | level (dBm) | Limit (dBm) | Margin (dB) | Result |
|-----------------|-----------------------------|-------------|-------------|-------------|--------|
| ---             | ---                         | ---         | ---         | ---         | ---    |

### Pre Measurements

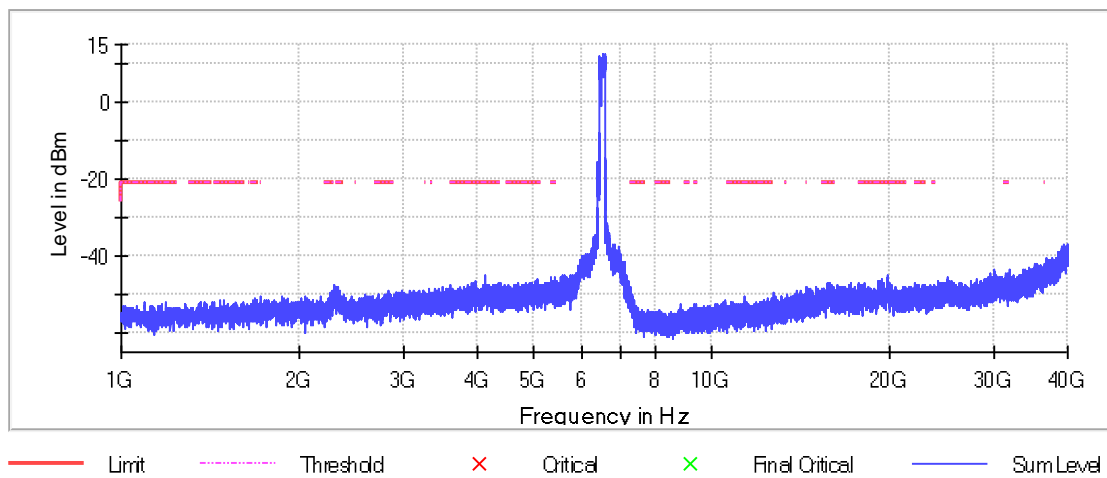
| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 36431.642761    | -42.9       | 21.7        | -21.2       |
| 36463.954251    | -43.1       | 21.9        | -21.2       |

|              |       |      |       |
|--------------|-------|------|-------|
| 36483.203650 | -43.2 | 22.0 | -21.2 |
| 36489.390957 | -43.6 | 22.4 | -21.2 |
| 36481.141214 | -43.6 | 22.4 | -21.2 |
| 36470.141558 | -43.6 | 22.4 | -21.2 |
| 36465.329208 | -43.7 | 22.5 | -21.2 |
| 36473.578951 | -43.8 | 22.6 | -21.2 |
| 36469.454080 | -43.9 | 22.7 | -21.2 |
| 36464.641730 | -43.9 | 22.7 | -21.2 |
| 36452.267117 | -43.9 | 22.7 | -21.2 |
| 36476.328865 | -44.0 | 22.8 | -21.2 |
| 36456.391988 | -44.0 | 22.8 | -21.2 |
| 36470.829037 | -44.2 | 23.0 | -21.2 |
| 36487.328521 | -44.2 | 23.0 | -21.2 |

## Measurement Settings

| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 1000.000000           | 5925.000000          | 1               | 1                 |
| 5925.000000           | 7125.000000          | 1               | 1                 |
| 7125.000000           | 18000.000000         | 1               | 1                 |
| 18000.000000          | 40000.000000         | 1               | 2                 |

Restricted Band



## 1.2 Summary

| Test                          | Frequency (MHz) | Nominal Power (dBm) | Nominal Bandwidth (MHz) | Result |
|-------------------------------|-----------------|---------------------|-------------------------|--------|
| Power Spectral Density (SA-2) | 6435.000        | 24.0                | 20.000000               | PASS   |

### Power Spectral Density (SA-2) (6435 MHz; 24.000 dBm; 20 MHz)

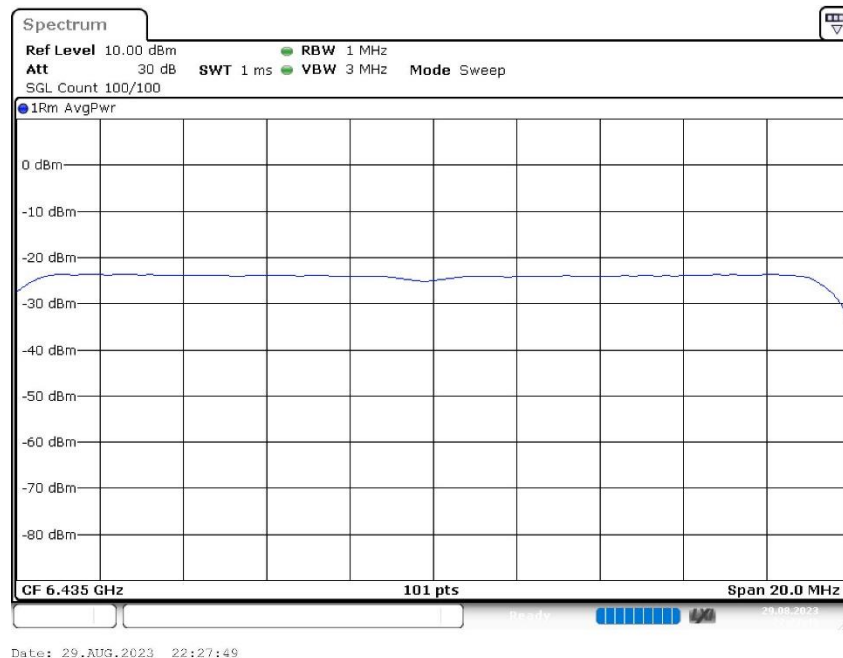
#### Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 6435.000000         | 6426.683168     | -1.577    | -0.8            | PASS   |

#### Ports

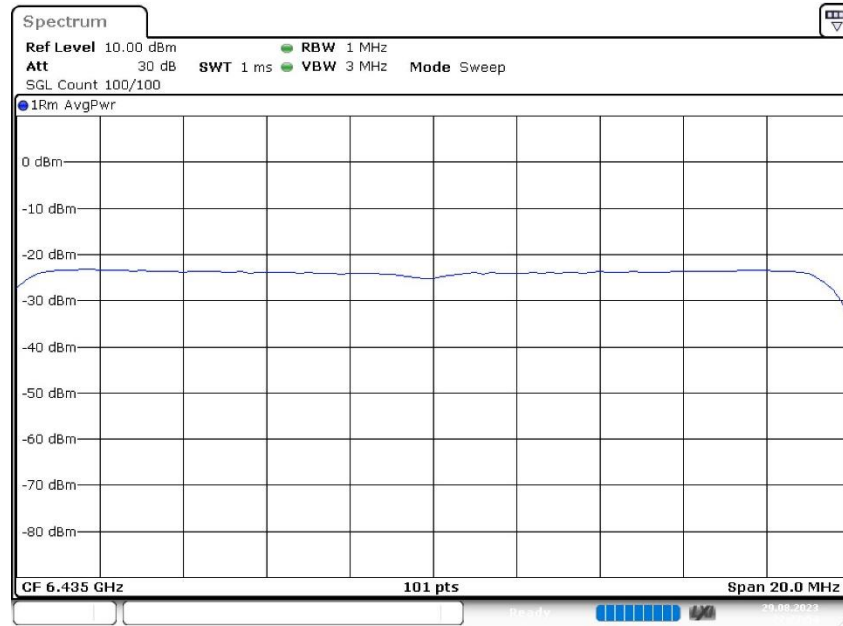
| Port | State |
|------|-------|
| 1    | used  |
| 2    | used  |

PSD Connector 1



PSD Connector 2





Date: 29.AUG.2023 22:27:54

## Measurement

| Setting         | Instrument Value | Target Value  |
|-----------------|------------------|---------------|
| Start Frequency | 6.42500 GHz      | 6.42500 GHz   |
| Stop Frequency  | 6.44500 GHz      | 6.44500 GHz   |
| Span            | 20.000 MHz       | 20.000 MHz    |
| RBW             | 1.000 MHz        | <= 1.000 MHz  |
| VBW             | 3.000 MHz        | >= 3.000 MHz  |
| SweepPoints     | 101              | ~ 40          |
| SweepTime       | 1.000 ms         | AUTO          |
| Reference Level | 10.000 dBm       | 10.000 dBm    |
| Attenuation     | 30.000 dB        | AUTO          |
| Detector        | RMS              | RMS           |
| SweepCount      | 100              | 100           |
| Filter          | 3 dB             | 3 dB          |
| Trace Mode      | Average Power    | Average Power |
| SweepType       | Sweep            | Sweep         |
| Preamp          | off              | off           |

-- End of Report --