

# FCC Part 47 §15.247 2400-2483.5 MHz 2015

## DUT Information

### Frequencies

|                       |                       |                       |
|-----------------------|-----------------------|-----------------------|
| 2402 MHz (2402 MHz)   | WLAN CH 3 (2422 MHz)  | WLAN CH 6 (2437 MHz)  |
| WLAN CH 9 (2452 MHz)  | 2440 MHz (2440 MHz)   | 2480 MHz (2480 MHz)   |
| WLAN CH 2 (2417 MHz)  | WLAN CH 4 (2427 MHz)  | WLAN CH 5 (2432 MHz)  |
| WLAN CH 7 (2442 MHz)  | WLAN CH 8 (2447 MHz)  | WLAN CH 10 (2457 MHz) |
| WLAN CH 11 (2462 MHz) | WLAN CH 12 (2467 MHz) | WLAN CH 13 (2472 MHz) |
| WLAN CH 1 (2412 MHz)  | BT CH 3 (2405 MHz)    |                       |

### Bandwidths

|                 |               |                 |
|-----------------|---------------|-----------------|
| 2 MHz (2 MHz)   | 1 MHz (1 MHz) | 20 MHz (20 MHz) |
| 40 MHz (40 MHz) |               |                 |

### Power

20.000 dBm (20 dBm)

### Beamforming Gain

|                        |                              |
|------------------------|------------------------------|
| Powerstep name (value) | Beamforming gain table names |
| 20.000 dBm (20 dBm)    | ---                          |

### Gain Tables

|                        |                  |
|------------------------|------------------|
| Powerstep name (value) | Gain table names |
| 20.000 dBm (20 dBm)    | Port 1: ---;     |

### DUT Settings

|                            |       |
|----------------------------|-------|
| No. of transmission chains | 1     |
| Equipment Type             | Other |
| Digital Modulation         | Yes   |
| Frequency Hopping          | No    |

## Hardware Setup: WMS Measurements\TS8997

|                    |                                                                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Spectrum Analyzer: | SA FSV 40 (SA FSV 40) @ VISA (ADR<br>TCPIP::192.168.48.111::INST0::INSTR), SN 1307.9002K40/101076,<br>FW 3.40                               |
| Vector Generator:  | VG SMBV100B (VG SMBV100B) @ VISA (ADR<br>TCPIP::192.168.48.29::INST0::INSTR), SN 101685, FW 4.70.006.33                                     |
| Generator:         | SMB100Aa (1) (SMB100A) @ VISA (ADR<br>TCPIP::192.168.48.30::INST0::INSTR), SN 178361, FW 3.20.390.24<br>/ Drv:Rev 2.21.0, 07/2016, CVI 2015 |
| OSP:               | OSP-B157W (OSP-B157W) @ VISA (ADR<br>TCPIP::192.168.48.157::INST0::INSTR), SN 1527.1144. /, FW<br>1.27.0.0                                  |

## Summary

| Test                            | Frequency (MHz) | Nominal Power (dBm) | Nominal Bandwidth (MHz) | Result |
|---------------------------------|-----------------|---------------------|-------------------------|--------|
| Minimum Emission Bandwidth 6 dB | 2412.000        | 20.0                | 20.000000               | PASS   |
| Emission Bandwidth 20 dB        | 2412.000        | 20.0                | 20.000000               | PASS   |
| RF output power                 | 2412.000        | 20.0                | 20.000000               | PASS   |
| Peak Power Spectral Density     | 2412.000        | 20.0                | 20.000000               | PASS   |
| Band Edge low                   | 2412.000        | 20.0                | 20.000000               | PASS   |
| Tx Spurious Emission            | 2412.000        | 20.0                | 20.000000               | PASS   |
| Emission Bandwidth 20 dB        | 2437.000        | 20.0                | 20.000000               | PASS   |
| Minimum Emission Bandwidth 6 dB | 2437.000        | 20.0                | 20.000000               | PASS   |
| RF output power                 | 2437.000        | 20.0                | 20.000000               | PASS   |
| Peak Power Spectral Density     | 2437.000        | 20.0                | 20.000000               | PASS   |
| Tx Spurious Emission            | 2437.000        | 20.0                | 20.000000               | PASS   |
| Emission Bandwidth 20 dB        | 2462.000        | 20.0                | 20.000000               | PASS   |
| Minimum Emission Bandwidth 6 dB | 2462.000        | 20.0                | 20.000000               | PASS   |
| RF output power                 | 2462.000        | 20.0                | 20.000000               | PASS   |
| Peak Power Spectral Density     | 2462.000        | 20.0                | 20.000000               | PASS   |
| Band Edge high                  | 2462.000        | 20.0                | 20.000000               | PASS   |
| Tx Spurious Emission            | 2462.000        | 20.0                | 20.000000               | PASS   |

## Minimum Emission Bandwidth 6 dB (2412 MHz; 20.000 dBm; 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

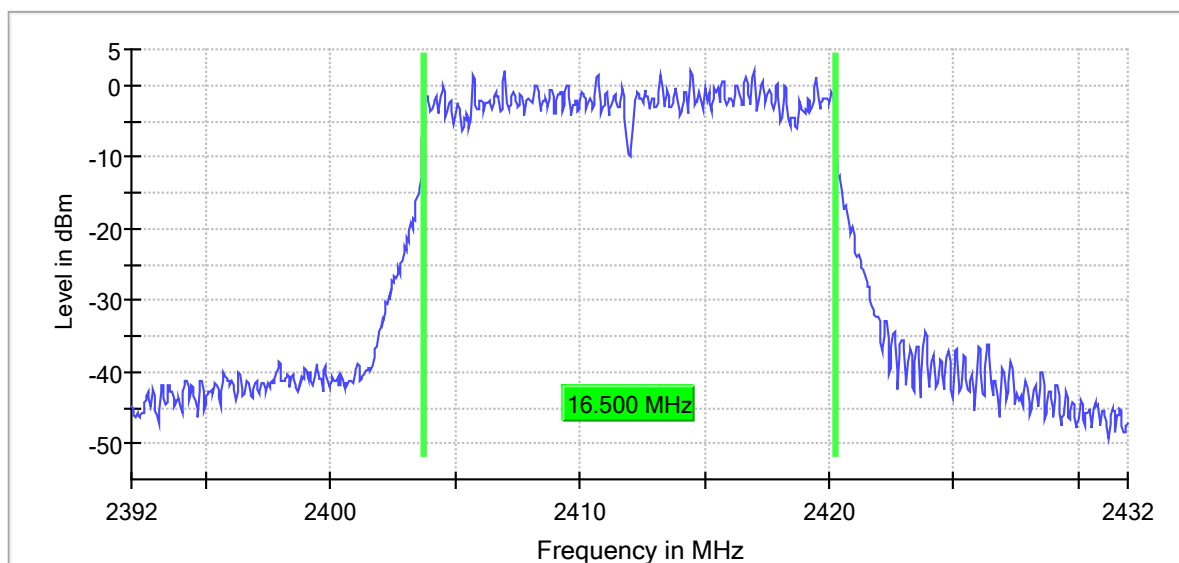
### 6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2412.000000         | 16.500000       | 0.500000        | ---             | 2403.725000          | 2420.225000           |

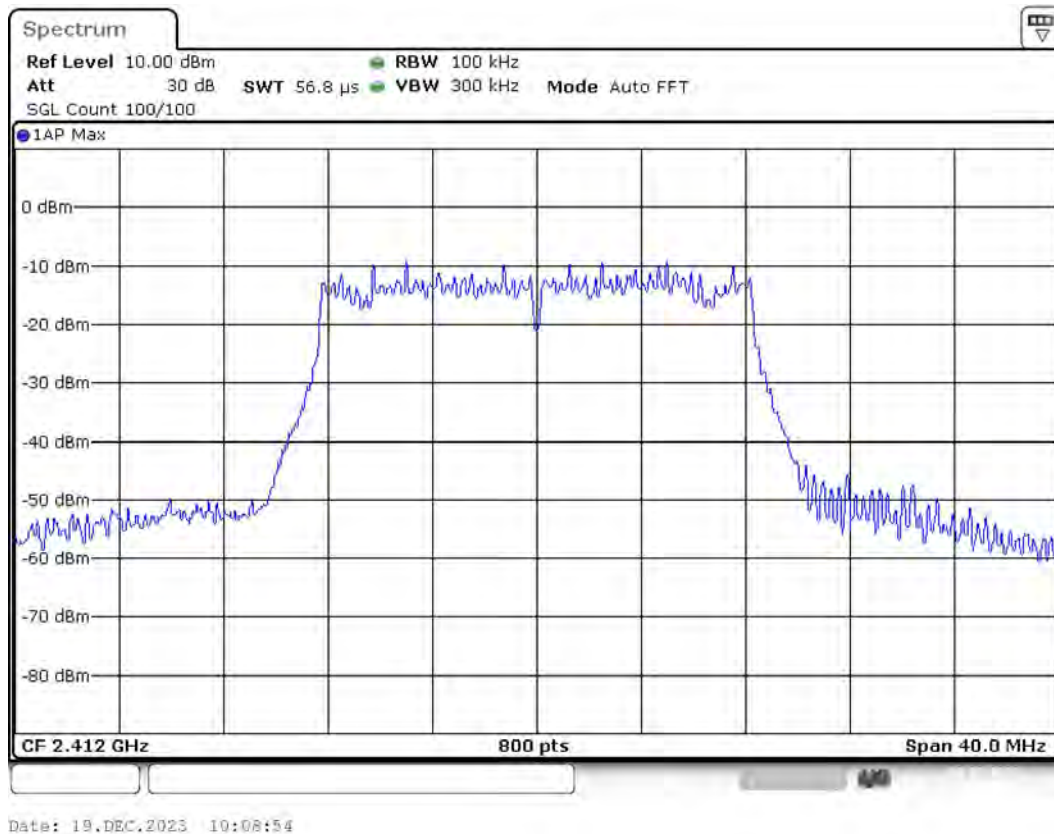
(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2412.000000         | 2.0             | PASS   |

6 dB Bandwidth



Bandwidth



## Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.39200 GHz      | 2.39200 GHz   |
| Stop Frequency        | 2.43200 GHz      | 2.43200 GHz   |
| Span                  | 40.000 MHz       | 40.000 MHz    |
| RBW                   | 100.000 kHz      | ~ 100.000 kHz |
| VBW                   | 300.000 kHz      | ~ 300.000 kHz |
| SweepPoints           | 800              | ~ 800         |
| SweepTime             | 56.836 µs        | AUTO          |
| Reference Level       | 10.000 dBm       | 10.000 dBm    |
| Attenuation           | 30.000 dB        | AUTO          |
| Detector              | Peak             | Peak          |
| SweepCount            | 100              | 100           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 1 / max. 1       | max. 1        |
| Stable                | 0 / 1            | 1             |
| Max Stable Difference | 0.00 dB          | 0.50 dB       |

## Emission Bandwidth 20 dB (2412 MHz; 20.000 dBm; 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

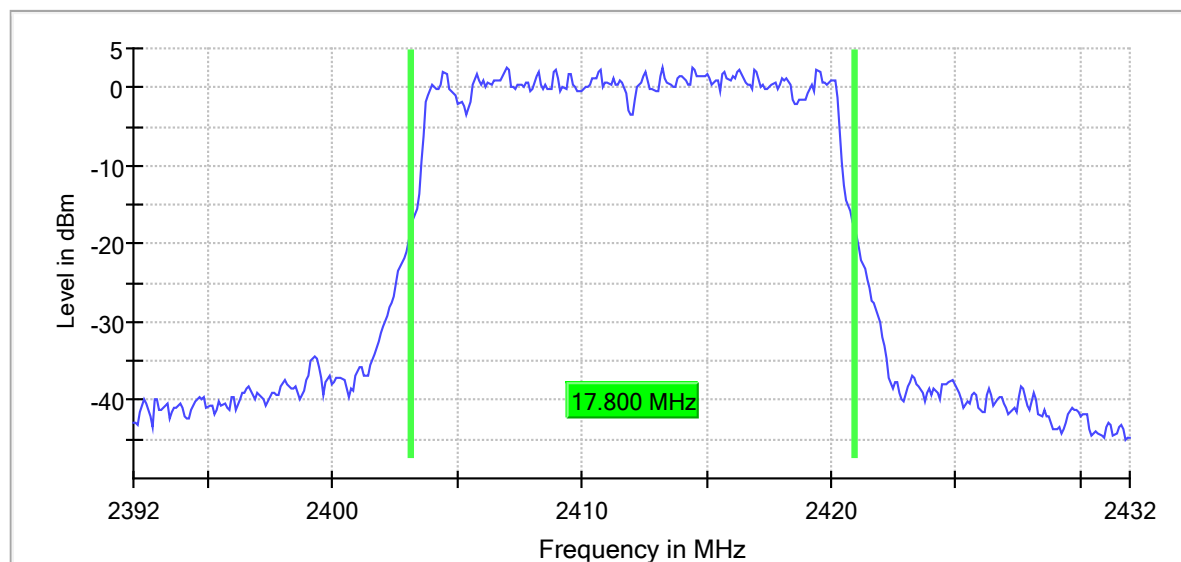
### 20 dB Bandwidth

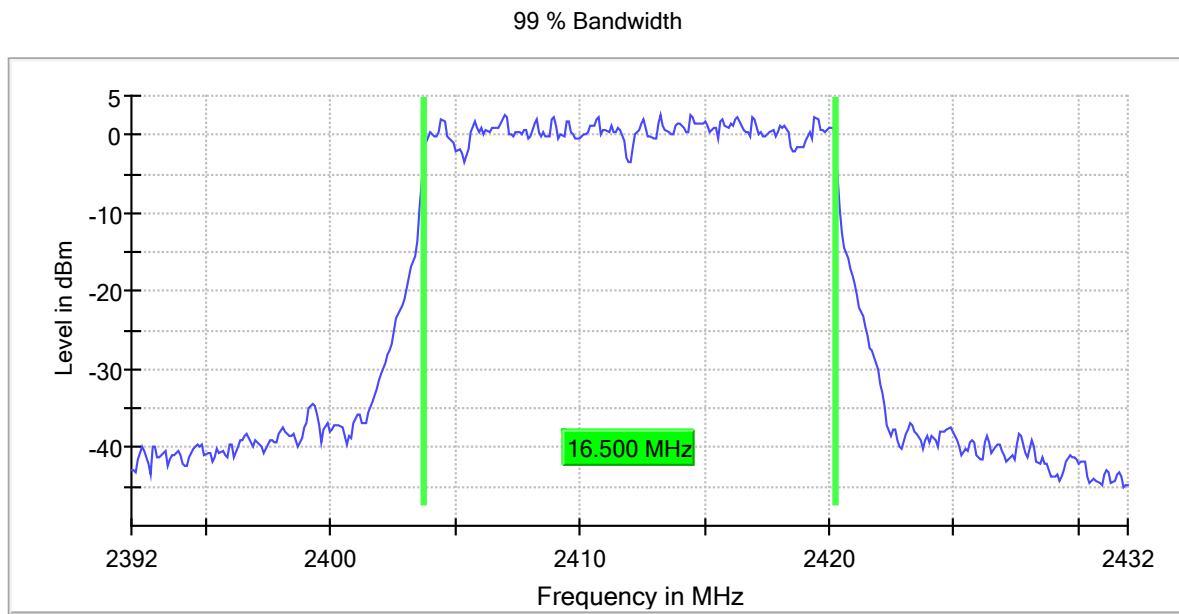
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2412.000000         | 17.800000       | ---             | ---             | 2403.150000          | 2420.950000           |

(continuation of the "20 dB Bandwidth" table from column 6 ...)

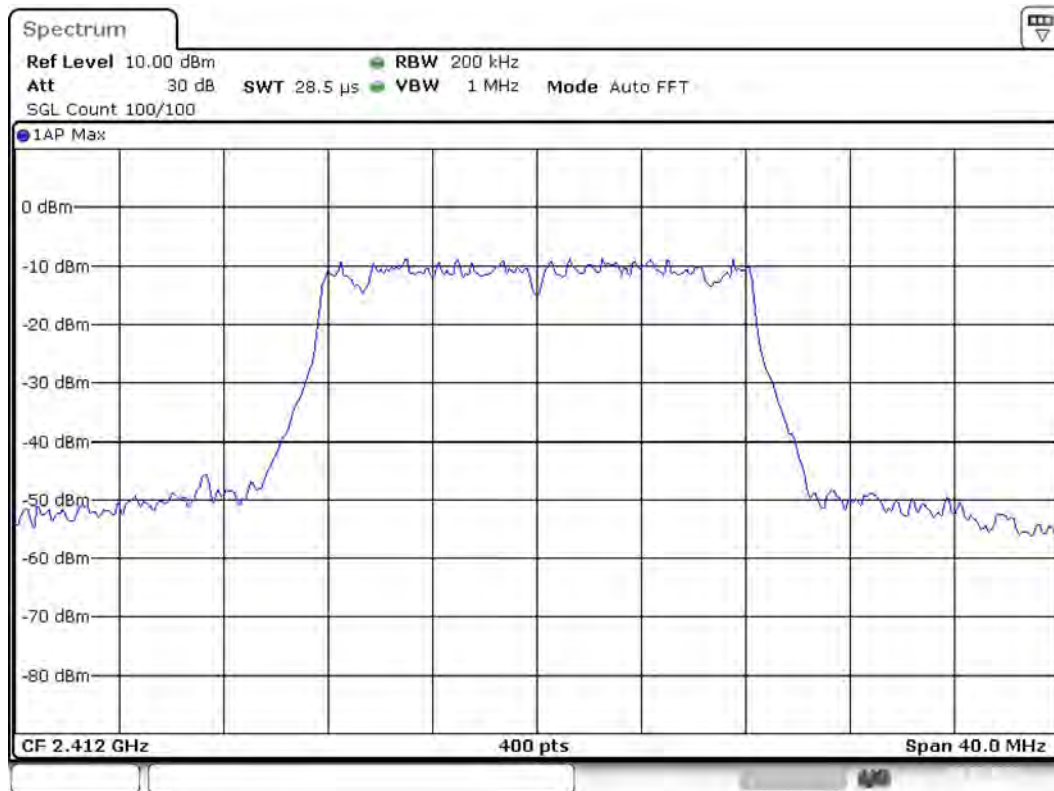
| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2412.000000         | 2.6             | PASS   |

20 dB Bandwidth





Bandwidth



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## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.39200 GHz      | 2.39200 GHz    |
| Stop Frequency        | 2.43200 GHz      | 2.43200 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 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | Peak             | Peak           |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 1 / max. 1       | max. 1         |
| Stable                | 0 / 1            | 1              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

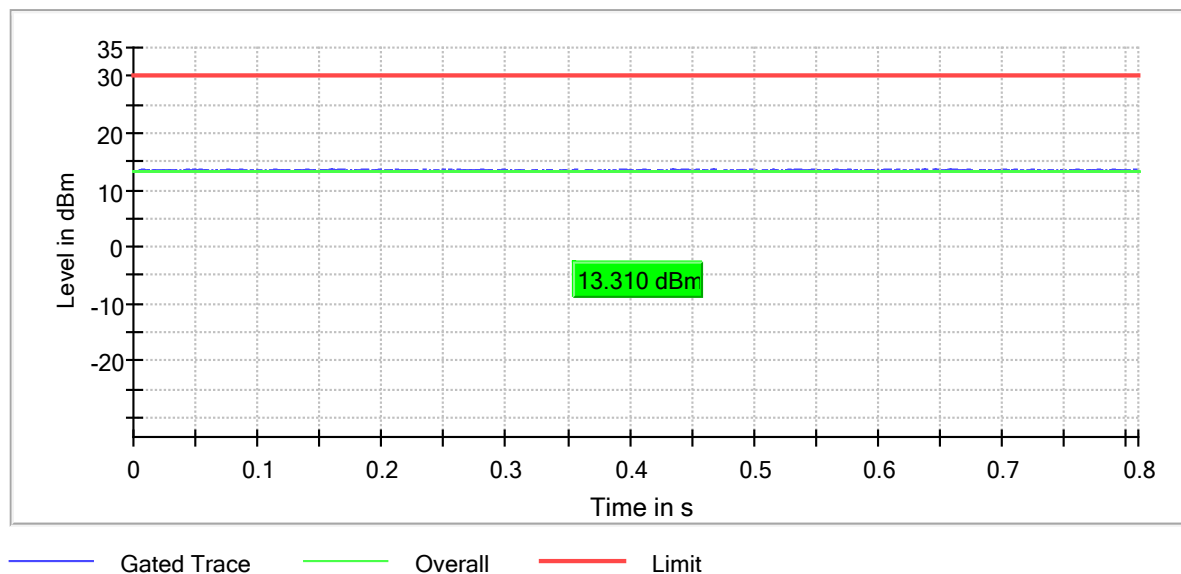
## RF output power (2412 MHz; 20.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

### Result

| DUT Frequency (MHz) | Gated RMS (dBm) | Limit Max (dBm) | Gated EIRP (dBm) | DutyCycle (%) | Result |
|---------------------|-----------------|-----------------|------------------|---------------|--------|
| 2412.000000         | 13.3            | 30.0            | 13.3             | 81.488        | PASS   |

Gated Trace



### 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 |

## Peak Power Spectral Density (2412 MHz; 20.000 dBm; 20 MHz)

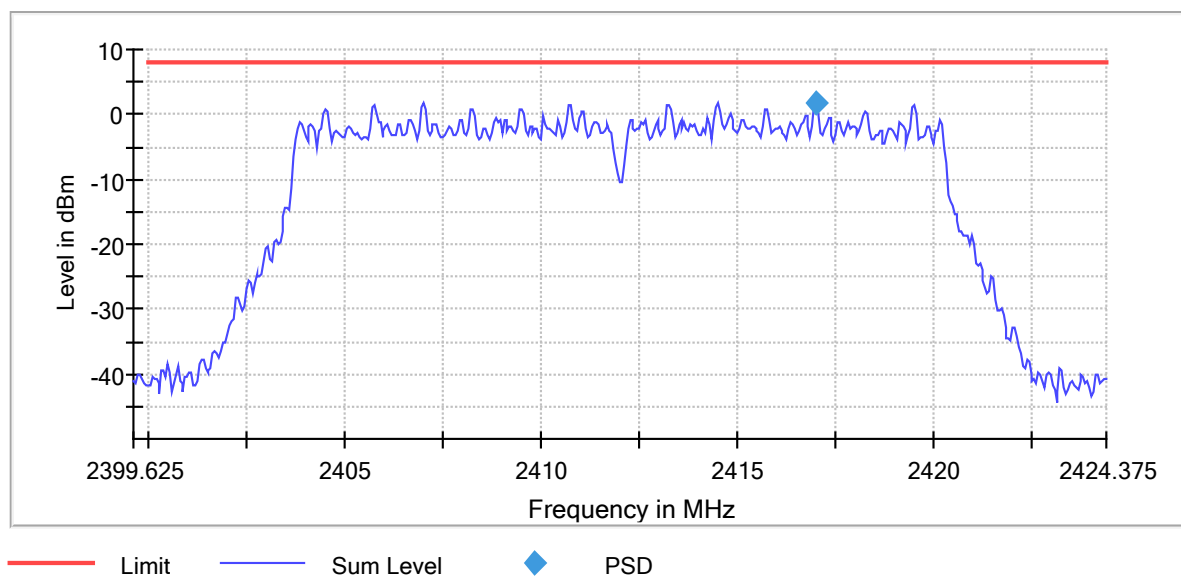
Customized settings.

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

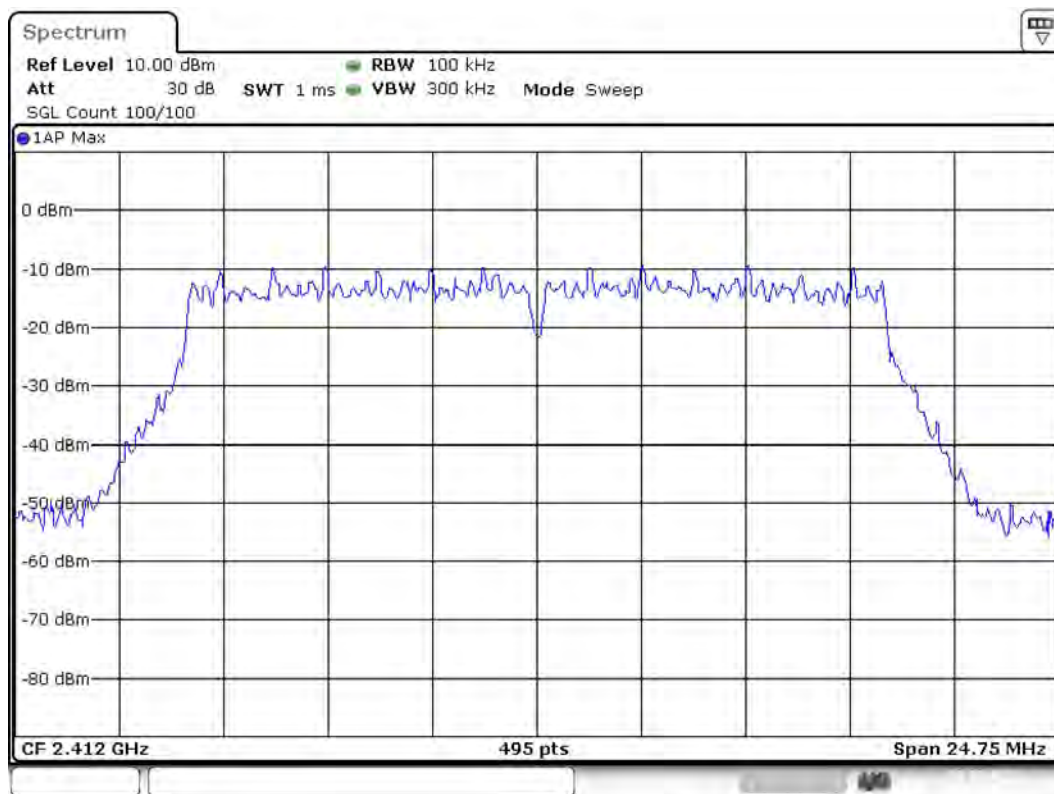
### Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 2412.000000         | 2417.000000     | 1.917     | 8.0             | PASS   |

Peak Power Spectral Density



PSD Connector 1



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## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.39963 GHz      | 2.39963 GHz    |
| Stop Frequency        | 2.42438 GHz      | 2.42438 GHz    |
| Span                  | 24.750 MHz       | 24.750 MHz     |
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 495              | ~ 495          |
| SweepTime             | 1.040 ms         | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | Peak             | Peak           |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | Sweep          |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 1 / max. 1       | max. 1         |
| Stable                | 0 / 1            | 1              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

## Band Edge low (2412 MHz; 20.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2412.000000         | PASS   |

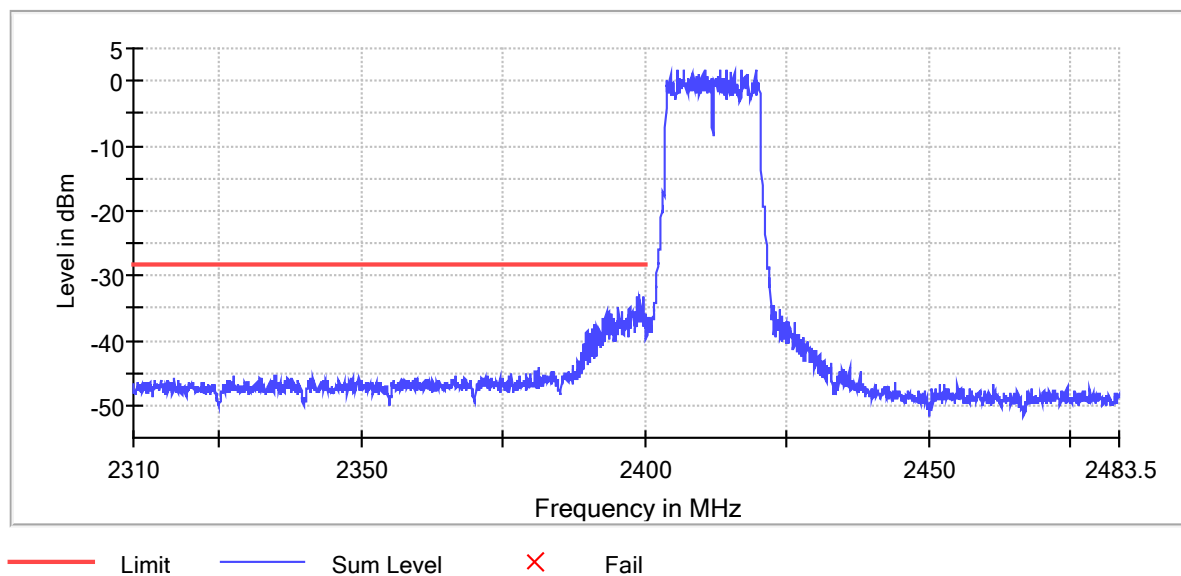
### Inband Peak

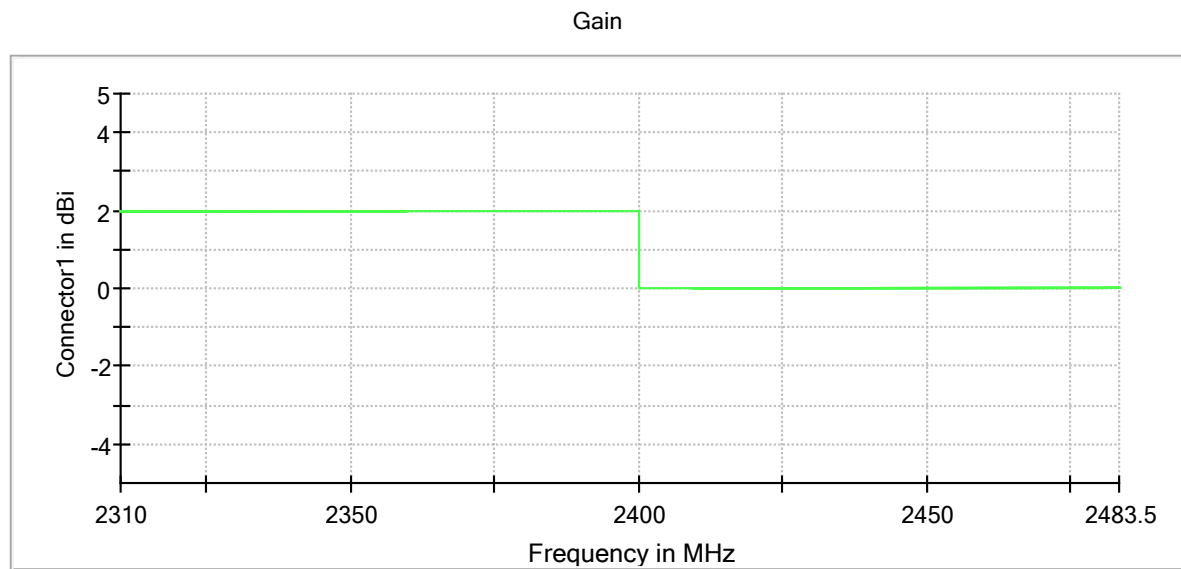
| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 2406.975000     | 1.9         |

### Measurements

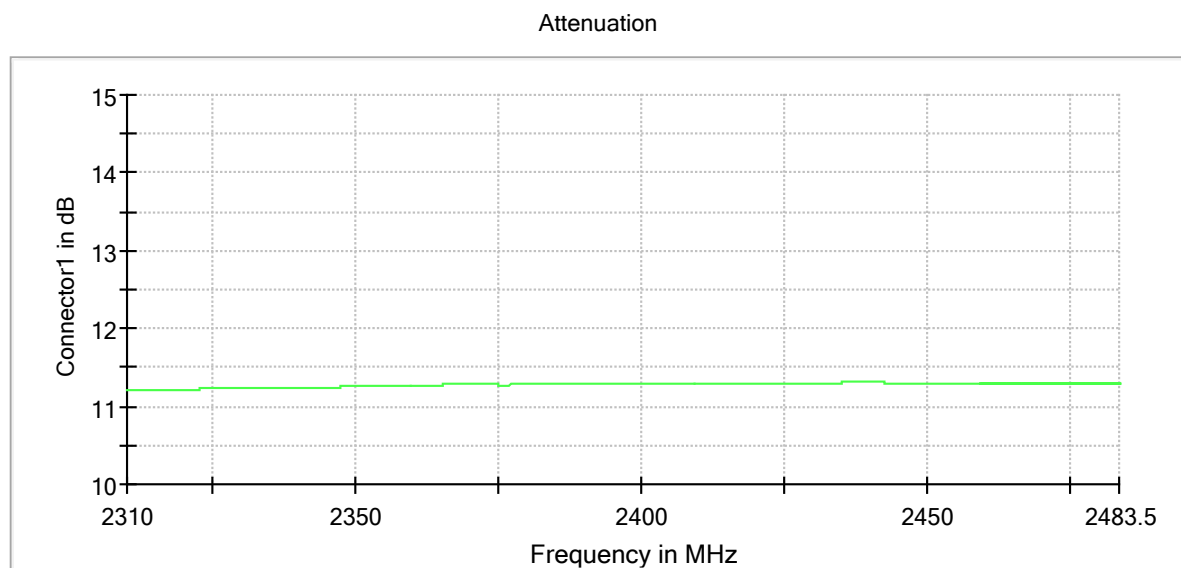
| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 2398.875000     | -33.1       | 4.9         | -28.1       | PASS   |
| 2399.825000     | -33.2       | 5.0         | -28.1       | PASS   |
| 2398.575000     | -33.2       | 5.1         | -28.1       | PASS   |
| 2399.125000     | -33.5       | 5.3         | -28.1       | PASS   |
| 2398.625000     | -33.5       | 5.4         | -28.1       | PASS   |
| 2399.875000     | -33.6       | 5.5         | -28.1       | PASS   |
| 2399.175000     | -33.7       | 5.5         | -28.1       | PASS   |
| 2398.825000     | -33.8       | 5.7         | -28.1       | PASS   |
| 2399.775000     | -33.9       | 5.8         | -28.1       | PASS   |
| 2398.925000     | -34.0       | 5.9         | -28.1       | PASS   |
| 2398.525000     | -34.3       | 6.2         | -28.1       | PASS   |
| 2399.725000     | -34.3       | 6.2         | -28.1       | PASS   |
| 2399.225000     | -34.7       | 6.6         | -28.1       | PASS   |
| 2399.075000     | -34.8       | 6.7         | -28.1       | PASS   |
| 2395.425000     | -35.0       | 6.8         | -28.1       | PASS   |

Band Edge



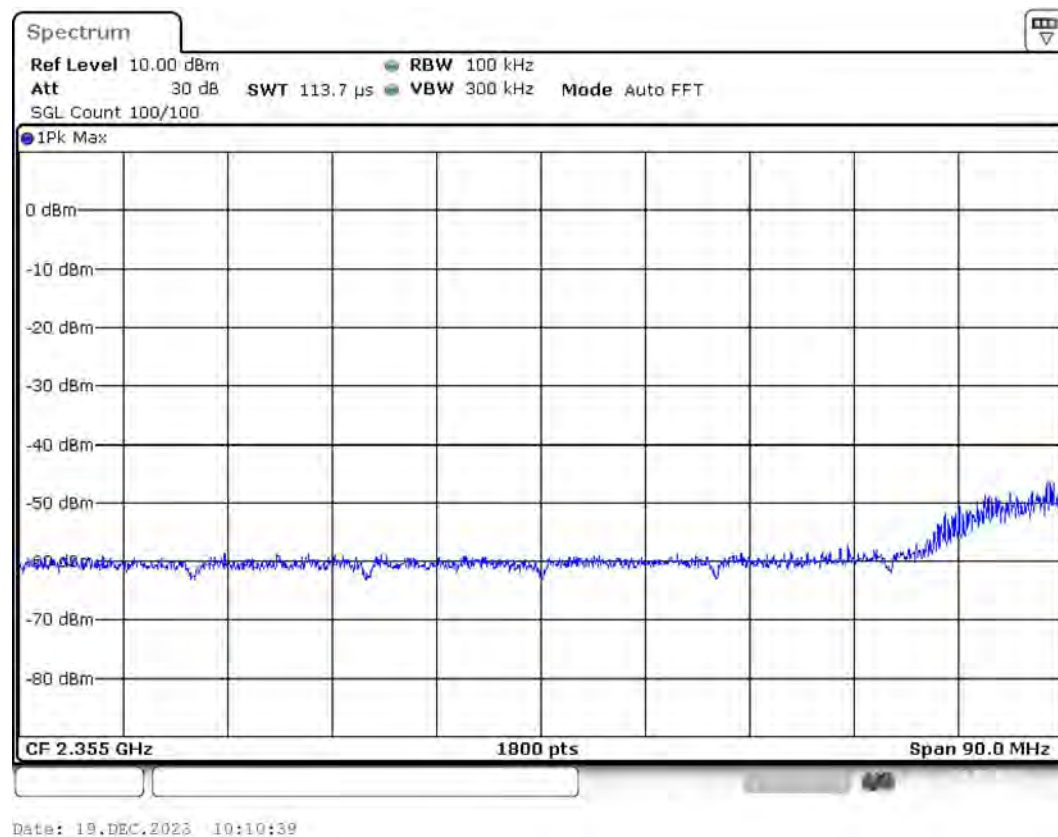


Connector1



Connector1

Band Edge Connector 1\_0



Band Edge Connector 1\_1



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## Measurement 1

| Setting               | Instrument Value | Target Value       |
|-----------------------|------------------|--------------------|
| Start Frequency       | 2.31000 GHz      | 2.31000 GHz        |
| Stop Frequency        | 2.40000 GHz      | 2.40000 GHz        |
| Span                  | 90.000 MHz       | 90.000 MHz         |
| RBW                   | 100.000 kHz      | $\leq$ 100.000 kHz |
| VBW                   | 300.000 kHz      | $\geq$ 300.000 kHz |
| SweepPoints           | 1800             | $\sim$ 1800        |
| Sweptime              | 113.672 $\mu$ s  | AUTO               |
| Reference Level       | 10.000 dBm       | 10.000 dBm         |
| Attenuation           | 30.000 dB        | AUTO               |
| Detector              | MaxPeak          | MaxPeak            |
| SweepCount            | 100              | 100                |
| Filter                | 3 dB             | 3 dB               |
| Trace Mode            | Max Hold         | Max Hold           |
| SweepType             | FFT              | AUTO               |
| Preamplifier          | off              | off                |
| Stablemode            | Trace            | Trace              |
| Stablevalue           | 0.50 dB          | 0.50 dB            |
| Run                   | 37 / max. 150    | max. 150           |
| Stable                | 3 / 3            | 3                  |
| Max Stable Difference | 0.00 dB          | 0.50 dB            |

## Measurement 2

| Setting         | Instrument Value | Target Value       |
|-----------------|------------------|--------------------|
| Start Frequency | 2.40000 GHz      | 2.40000 GHz        |
| Stop Frequency  | 2.48350 GHz      | 2.48350 GHz        |
| Span            | 83.500 MHz       | 83.500 MHz         |
| RBW             | 100.000 kHz      | $\leq$ 100.000 kHz |
| VBW             | 300.000 kHz      | $\geq$ 300.000 kHz |

|                              |                                 |                   |
|------------------------------|---------------------------------|-------------------|
| <b>SweepPoints</b>           | <b>1670</b>                     | <b>~ 1670</b>     |
| <b>SweepTime</b>             | <b>94.727 <math>\mu</math>s</b> | <b>AUTO</b>       |
| <b>Reference Level</b>       | <b>10.000 dBm</b>               | <b>10.000 dBm</b> |
| <b>Attenuation</b>           | <b>30.000 dB</b>                | <b>AUTO</b>       |
| <b>Detector</b>              | <b>MaxPeak</b>                  | <b>MaxPeak</b>    |
| <b>SweepCount</b>            | <b>100</b>                      | <b>100</b>        |
| <b>Filter</b>                | <b>3 dB</b>                     | <b>3 dB</b>       |
| <b>Trace Mode</b>            | <b>Max Hold</b>                 | <b>Max Hold</b>   |
| <b>SweepType</b>             | <b>FFT</b>                      | <b>AUTO</b>       |
| <b>Preamp</b>                | <b>off</b>                      | <b>off</b>        |
| <b>Stablemode</b>            | <b>Trace</b>                    | <b>Trace</b>      |
| <b>Stablevalue</b>           | <b>0.50 dB</b>                  | <b>0.50 dB</b>    |
| <b>Run</b>                   | <b>34 / max. 150</b>            | <b>max. 150</b>   |
| <b>Stable</b>                | <b>3 / 3</b>                    | <b>3</b>          |
| <b>Max Stable Difference</b> | <b>0.46 dB</b>                  | <b>0.50 dB</b>    |

## Tx Spurious Emission (2412 MHz; 20.000 dBm; 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2412.000000         | PASS   |

### Final measurements

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

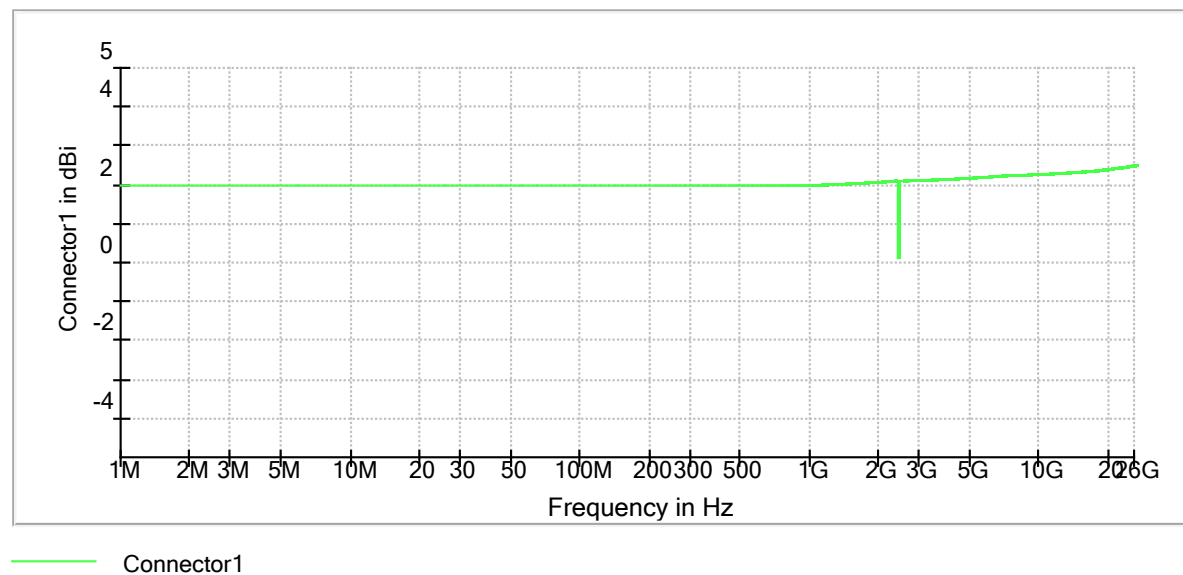
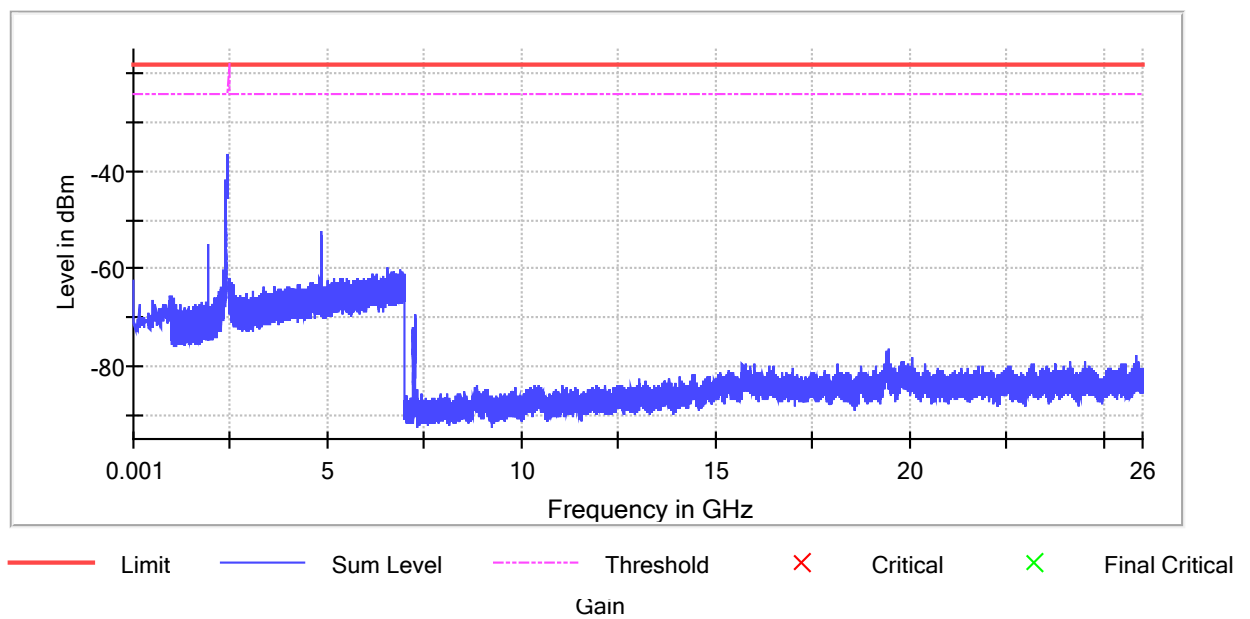
### Pre Measurements

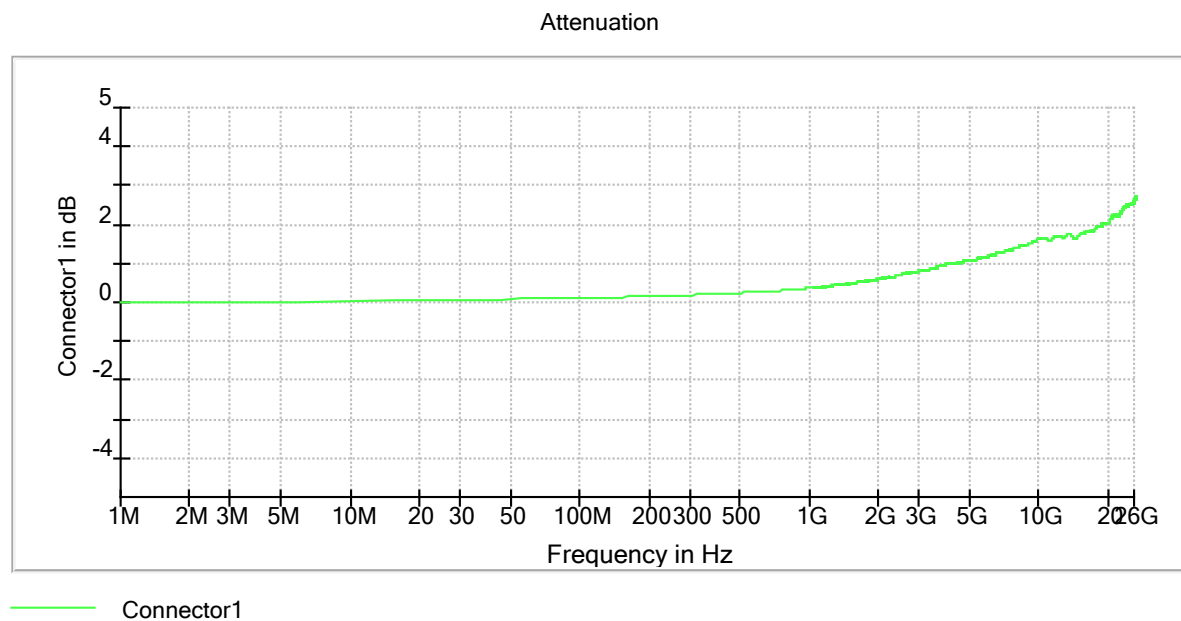
| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 2398.975000     | -36.3       | 18.3        | -18.1       |
| 2399.475000     | -36.3       | 18.3        | -18.1       |
| 2399.025000     | -36.4       | 18.3        | -18.1       |
| 2399.525000     | -36.5       | 18.4        | -18.1       |
| 2399.075000     | -37.2       | 19.1        | -18.1       |
| 2398.925000     | -37.5       | 19.5        | -18.1       |
| 2399.425000     | -37.7       | 19.7        | -18.1       |
| 2397.175000     | -37.9       | 19.8        | -18.1       |
| 2397.225000     | -38.2       | 20.1        | -18.1       |
| 2399.575000     | -38.6       | 20.5        | -18.1       |
| 2397.975000     | -38.6       | 20.5        | -18.1       |
| 2398.025000     | -38.7       | 20.6        | -18.1       |
| 2396.775000     | -38.7       | 20.6        | -18.1       |
| 2397.925000     | -38.8       | 20.7        | -18.1       |
| 2399.225000     | -39.2       | 21.2        | -18.1       |

### Measurement Settings

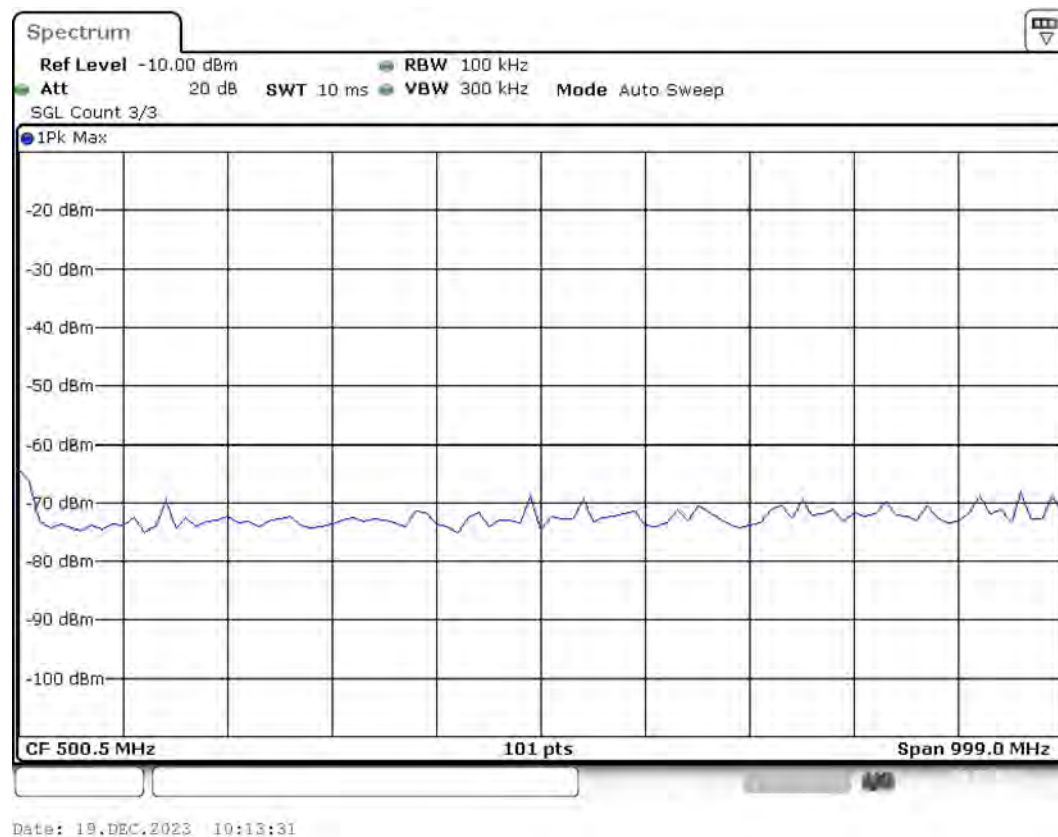
| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 1.000000              | 1000.000000          | 1               | 1                 |
| 1000.000000           | 2400.000000          | 2               | 2                 |
| 2483.500000           | 7000.000000          | 2               | 2                 |
| 7000.000000           | 18000.000000         | 2               | 2                 |
| 18000.000000          | 26000.000000         | 2               | 2                 |

Spurious

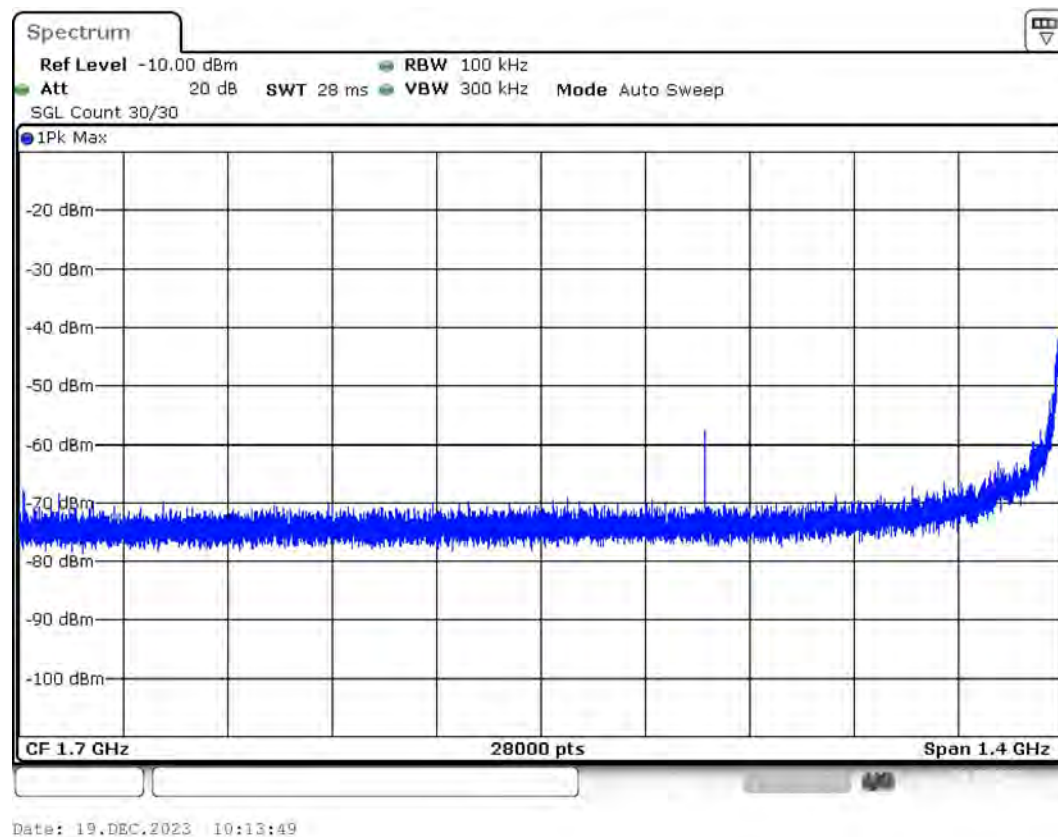




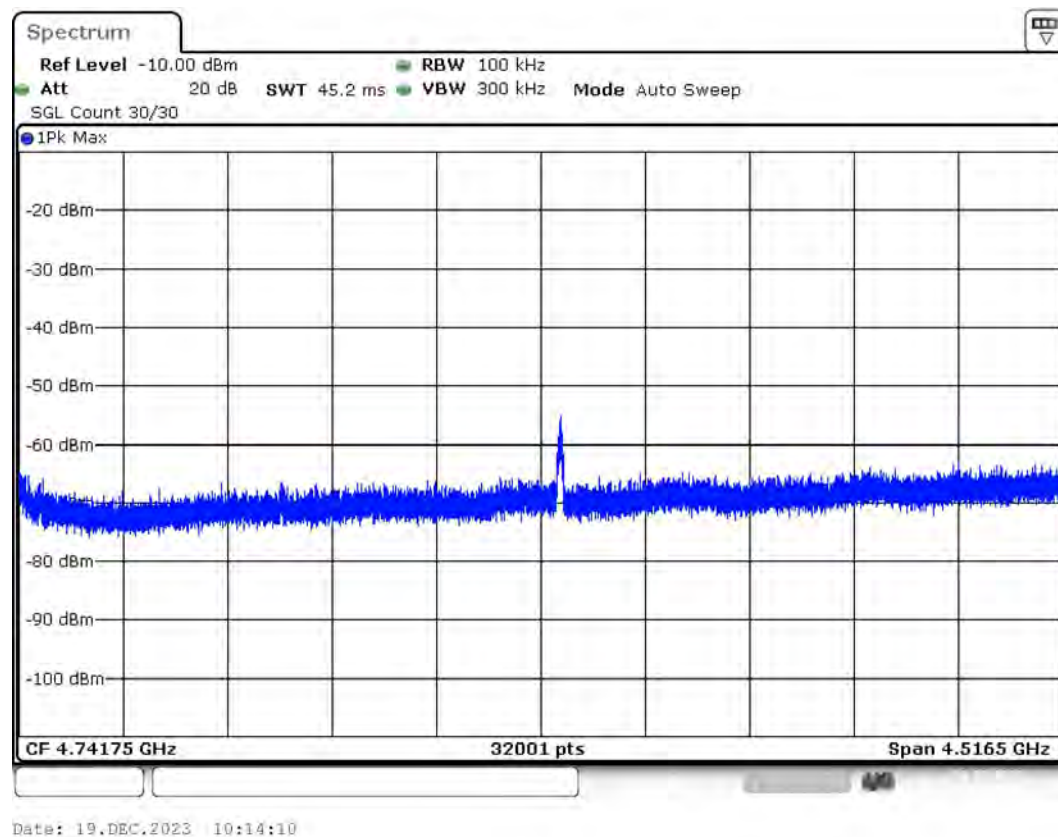
Spurious Connector 1\_0



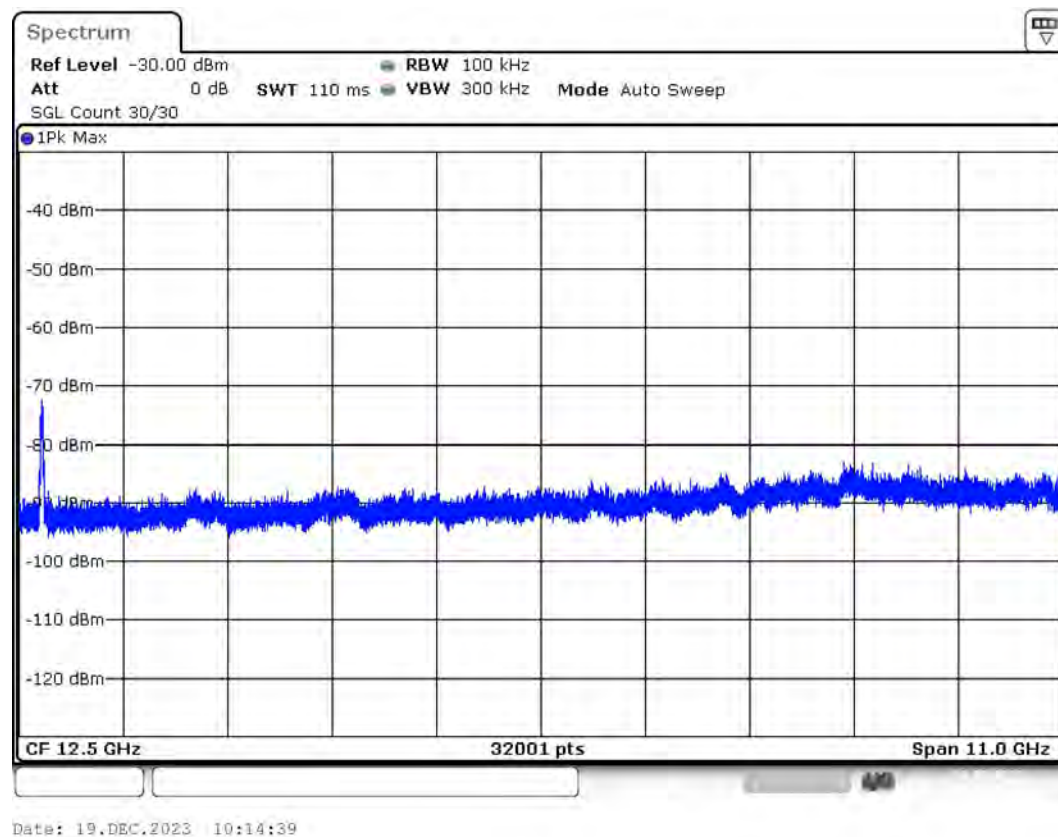
Spurious Connector 1\_1



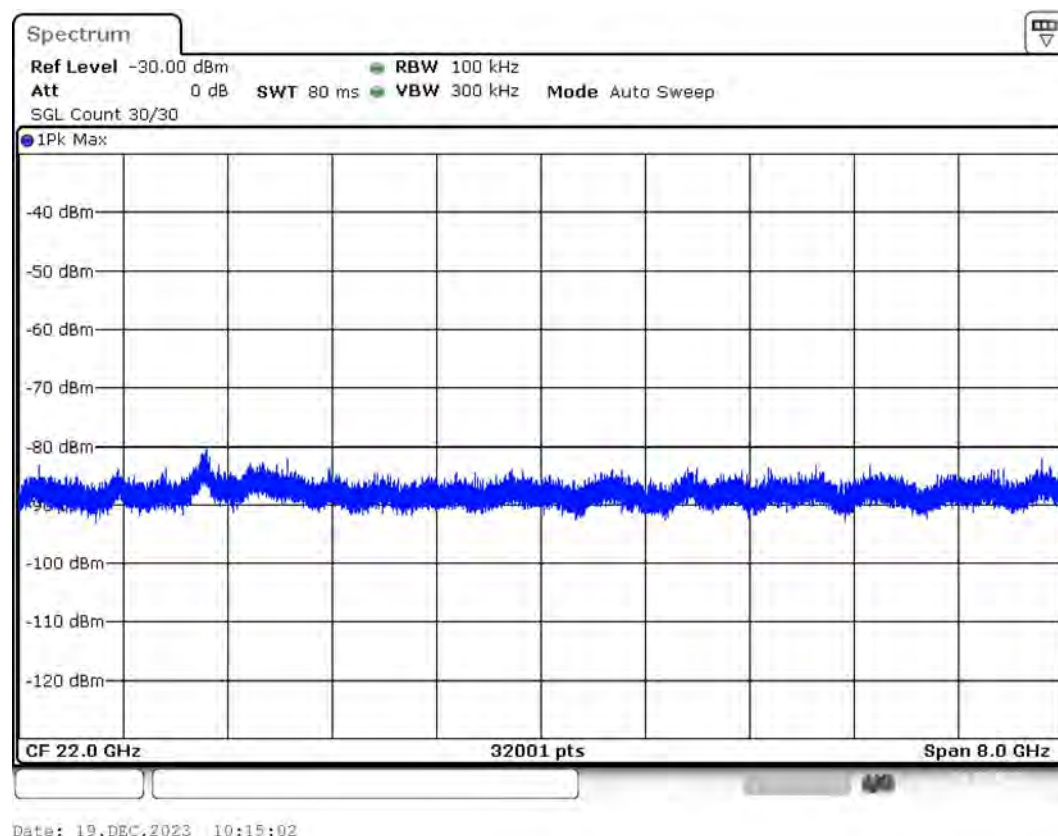
Spurious Connector 1\_2



Spurious Connector 1\_3



Spurious Connector 1\_4



## Pre Measurement 1

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 101              | ~ 101          |
| SweepTime             | 9.990 ms         | AUTO           |
| Reference Level       | -10.000 dBm      | -30.000 dBm    |
| Attenuation           | 20.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 3                | 3              |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 1 / max. 1       | max. 1         |
| Stable                | 0 / 1            | 1              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

## Pre Measurement 2

| Setting         | Instrument Value | Target Value   |
|-----------------|------------------|----------------|
| RBW             | 100.000 kHz      | <= 100.000 kHz |
| VBW             | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints     | 28000            | ~ 28000        |
| SweepTime       | 28.000 ms        | AUTO           |
| Reference Level | -10.000 dBm      | -30.000 dBm    |
| Attenuation     | 20.000 dB        | AUTO           |
| Detector        | MaxPeak          | MaxPeak        |
| SweepCount      | 30               | 30             |

|                              |                   |                 |
|------------------------------|-------------------|-----------------|
| <b>Filter</b>                | <b>3 dB</b>       | <b>3 dB</b>     |
| <b>Trace Mode</b>            | <b>Max Hold</b>   | <b>Max Hold</b> |
| <b>Sweep type</b>            | <b>Sweep</b>      | <b>AUTO</b>     |
| <b>Preamp</b>                | <b>off</b>        | <b>off</b>      |
| <b>Stable mode</b>           | <b>Trace</b>      | <b>Trace</b>    |
| <b>Stable value</b>          | <b>1.00 dB</b>    | <b>1.00 dB</b>  |
| <b>Run</b>                   | <b>1 / max. 1</b> | <b>max. 1</b>   |
| <b>Stable</b>                | <b>0 / 3</b>      | <b>3</b>        |
| <b>Max Stable Difference</b> | <b>0.00 dB</b>    | <b>1.00 dB</b>  |

## Emission Bandwidth 20 dB (2437 MHz; 20.000 dBm; 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

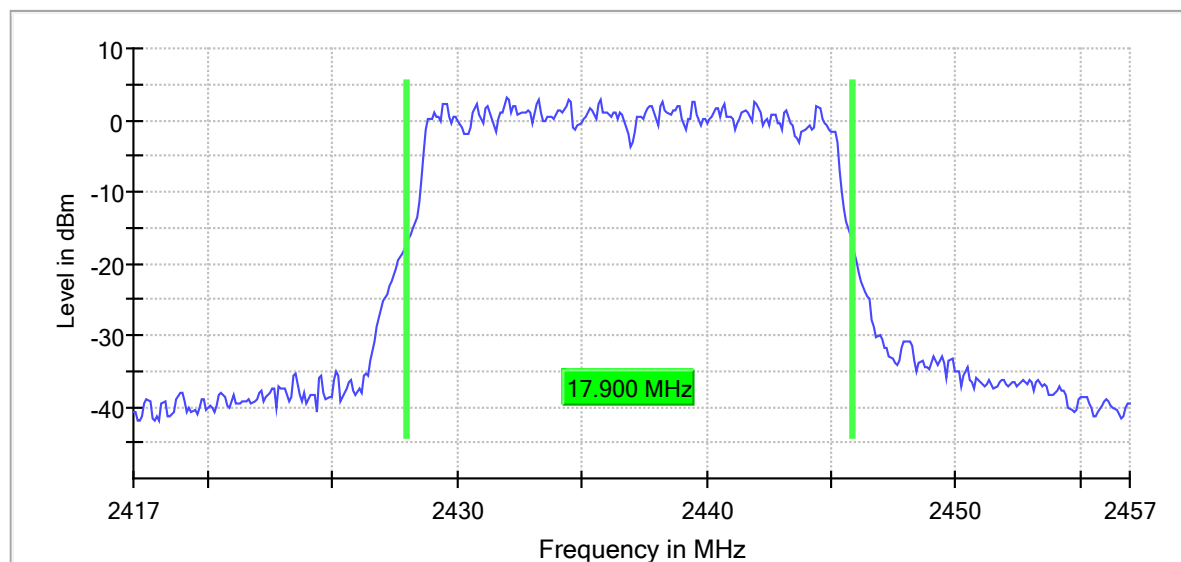
### 20 dB Bandwidth

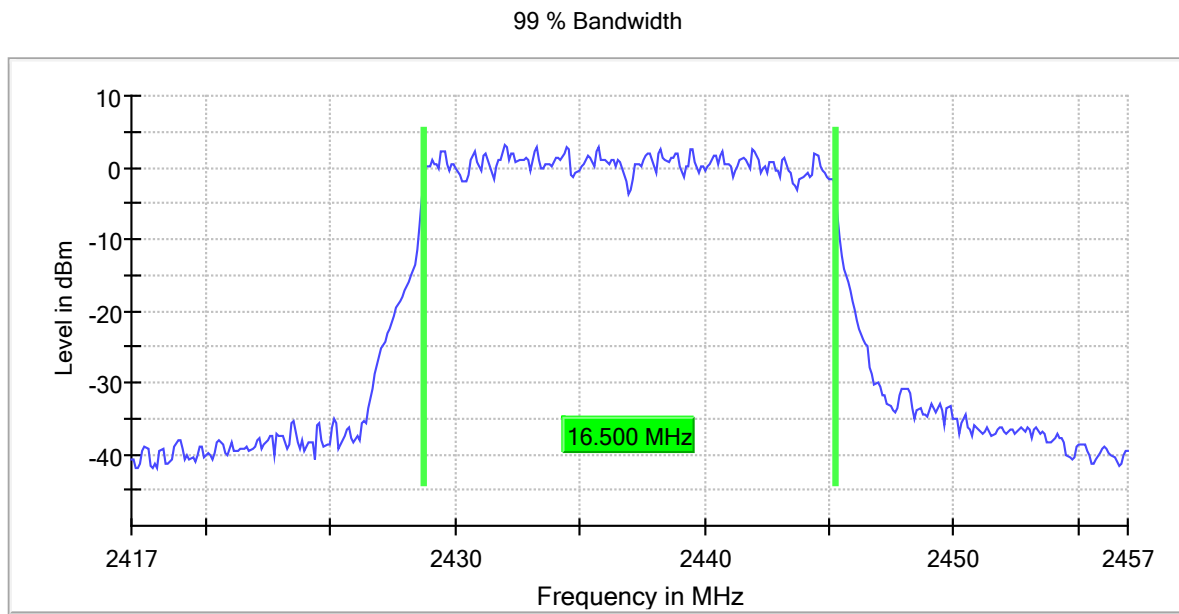
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2437.000000         | 17.900000       | ---             | ---             | 2427.950000          | 2445.850000           |

(continuation of the "20 dB Bandwidth" table from column 6 ...)

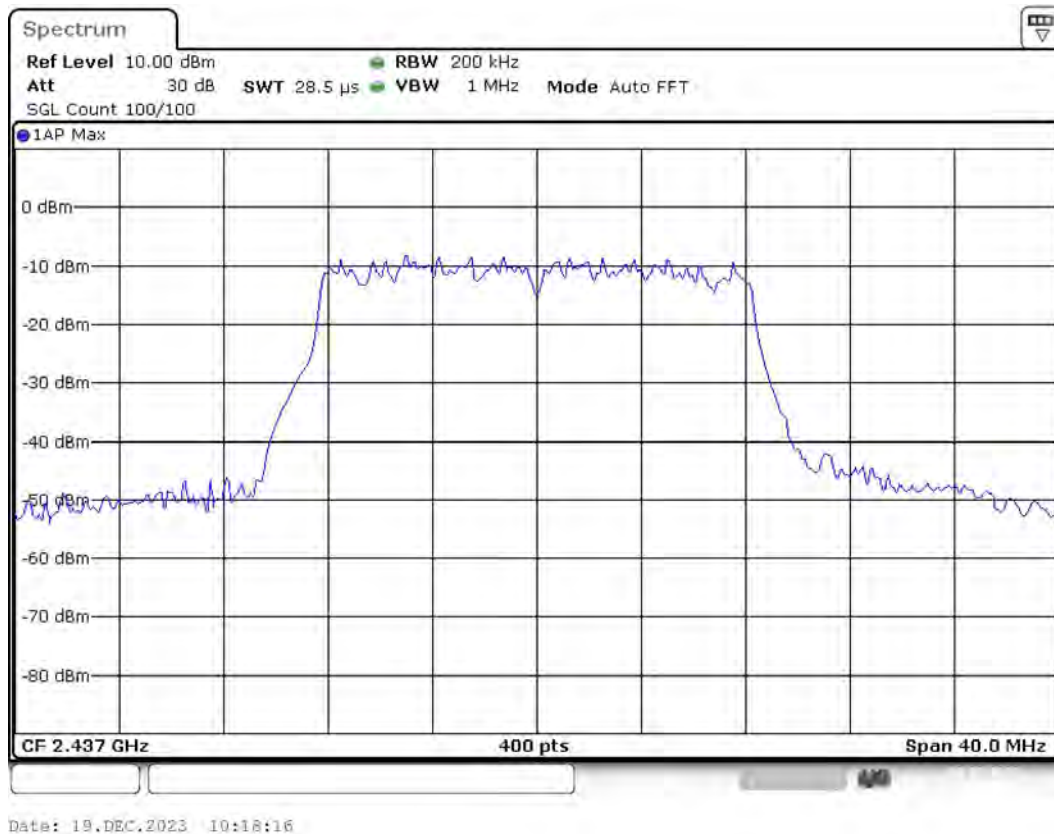
| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2437.000000         | 3.1             | PASS   |

20 dB Bandwidth





Bandwidth



## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.41700 GHz      | 2.41700 GHz    |
| Stop Frequency        | 2.45700 GHz      | 2.45700 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 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | Peak             | Peak           |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 1 / max. 1       | max. 1         |
| Stable                | 0 / 1            | 1              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

## Minimum Emission Bandwidth 6 dB (2437 MHz; 20.000 dBm; 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

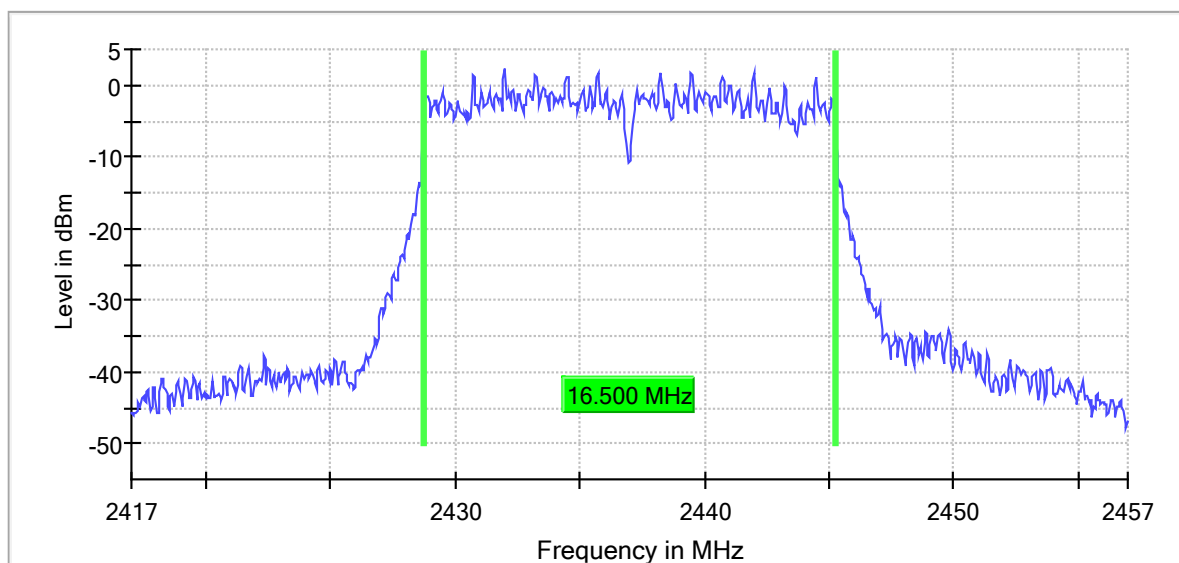
### 6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2437.000000         | 16.500000       | 0.500000        | ---             | 2428.725000          | 2445.225000           |

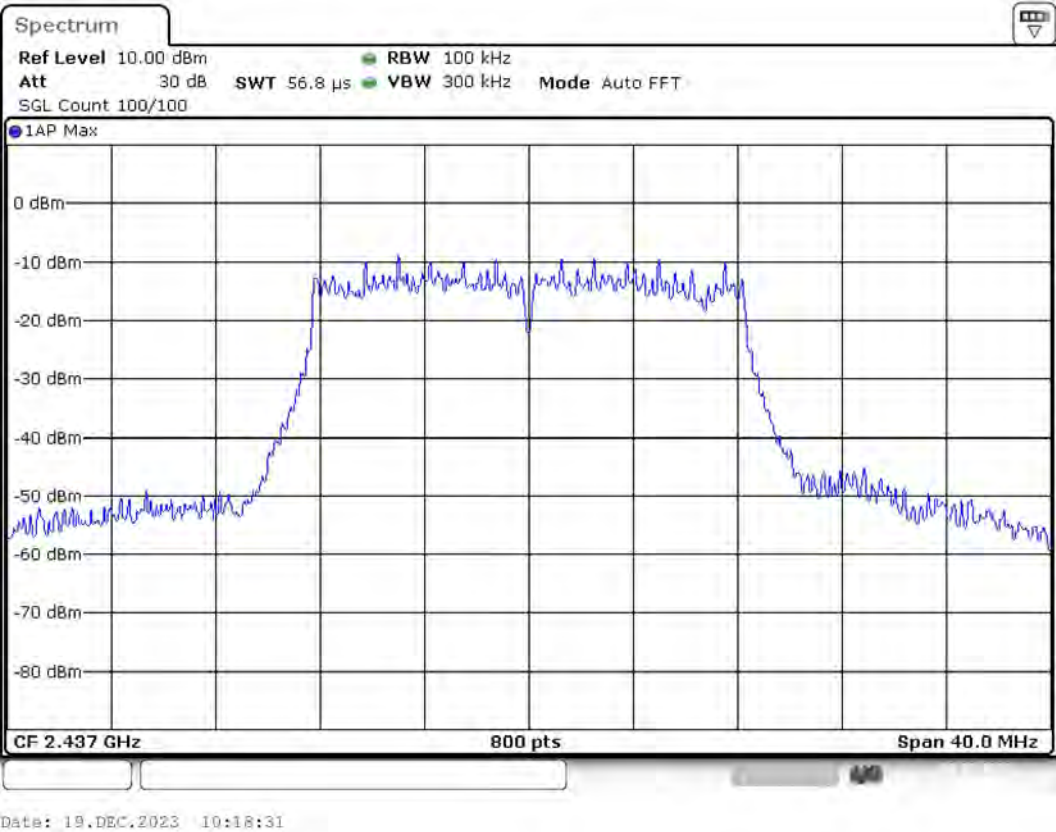
(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2437.000000         | 2.3             | PASS   |

6 dB Bandwidth



Bandwidth



Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.41700 GHz      | 2.41700 GHz   |
| Stop Frequency        | 2.45700 GHz      | 2.45700 GHz   |
| Span                  | 40.000 MHz       | 40.000 MHz    |
| RBW                   | 100.000 kHz      | ~ 100.000 kHz |
| VBW                   | 300.000 kHz      | ~ 300.000 kHz |
| SweepPoints           | 800              | ~ 800         |
| SweepTime             | 56.836 µs        | AUTO          |
| Reference Level       | 10.000 dBm       | 10.000 dBm    |
| Attenuation           | 30.000 dB        | AUTO          |
| Detector              | Peak             | Peak          |
| SweepCount            | 100              | 100           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 1 / max. 1       | max. 1        |
| Stable                | 0 / 1            | 1             |
| Max Stable Difference | 0.00 dB          | 0.50 dB       |

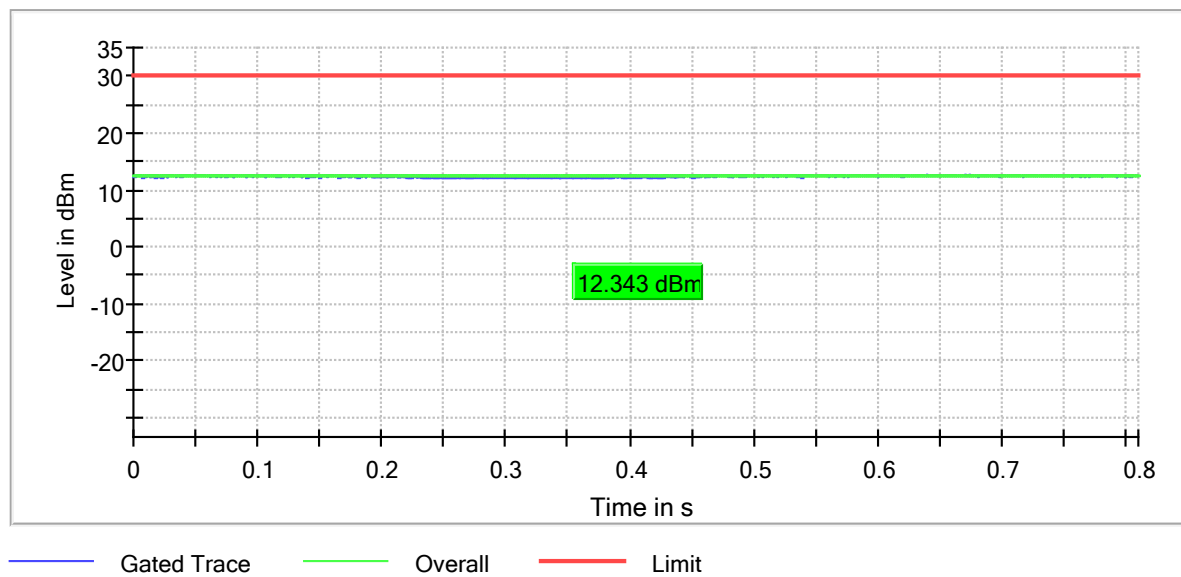
## RF output power (2437 MHz; 20.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

### Result

| DUT Frequency (MHz) | Gated RMS (dBm) | Limit Max (dBm) | Gated EIRP (dBm) | DutyCycle (%) | Result |
|---------------------|-----------------|-----------------|------------------|---------------|--------|
| 2437.000000         | 12.3            | 30.0            | 12.3             | 81.494        | PASS   |

Gated Trace



### 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 |

## Peak Power Spectral Density (2437 MHz; 20.000 dBm; 20 MHz)

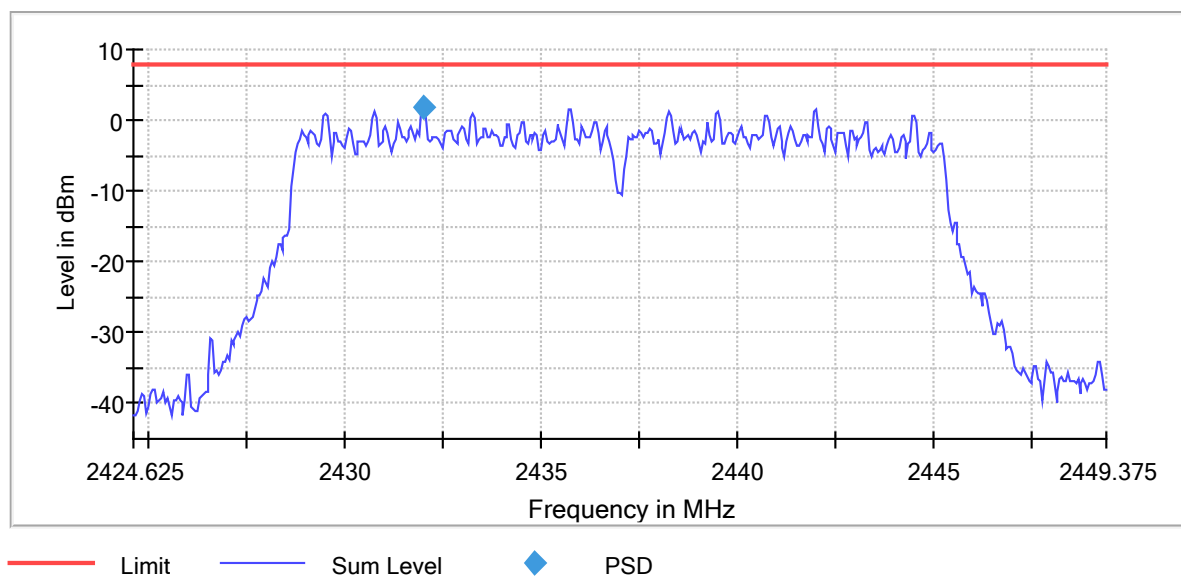
Customized settings.

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

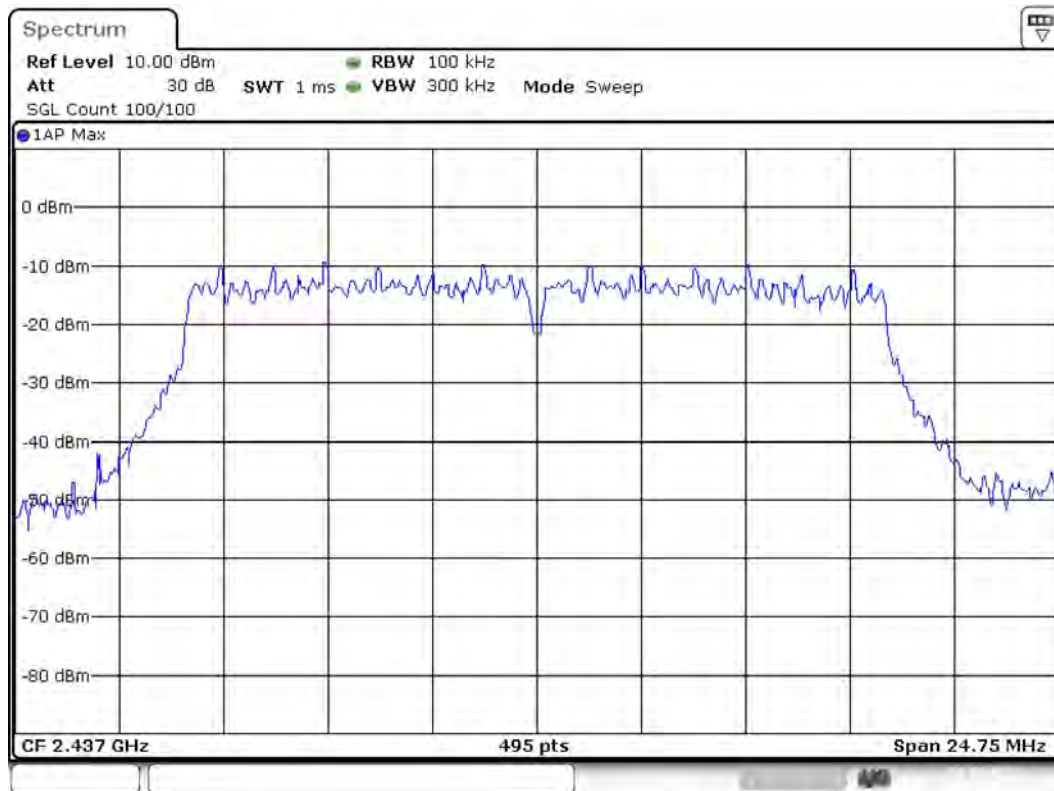
### Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 2437.000000         | 2432.000000     | 1.782     | 8.0             | PASS   |

Peak Power Spectral Density



PSD Connector 1



Date: 19.DEC.2023 10:19:02

## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.42463 GHz      | 2.42463 GHz    |
| Stop Frequency        | 2.44938 GHz      | 2.44938 GHz    |
| Span                  | 24.750 MHz       | 24.750 MHz     |
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 495              | ~ 495          |
| SweepTime             | 1.040 ms         | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | Peak             | Peak           |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | Sweep          |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 1 / max. 1       | max. 1         |
| Stable                | 0 / 1            | 1              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

**Tx Spurious Emission (2437 MHz; 20.000 dBm; 20 MHz)**

Customized settings.

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

**Result**

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2437.000000         | PASS   |

**Final measurements**

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

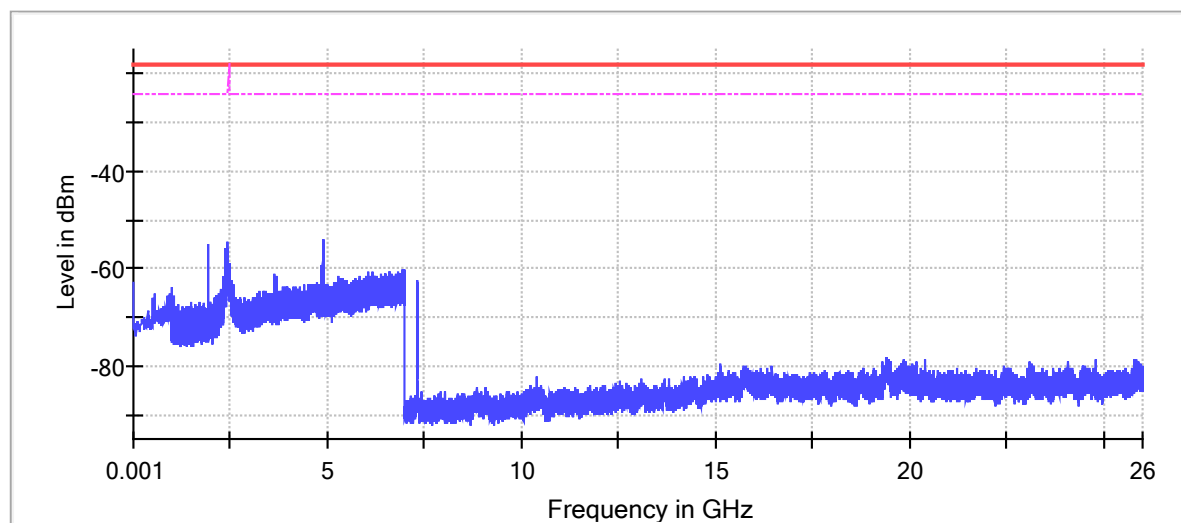
**Pre Measurements**

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 4875.829404     | -54.3       | 36.1        | -18.2       |
| 4872.724407     | -54.3       | 36.1        | -18.2       |
| 2399.975000     | -54.7       | 36.5        | -18.2       |
| 1919.975000     | -54.9       | 36.7        | -18.2       |
| 1920.025000     | -54.9       | 36.7        | -18.2       |
| 4867.502367     | -55.5       | 37.2        | -18.2       |
| 2391.475000     | -55.7       | 37.5        | -18.2       |
| 2396.675000     | -55.8       | 37.5        | -18.2       |
| 2391.525000     | -55.9       | 37.7        | -18.2       |
| 4875.688268     | -56.0       | 37.8        | -18.2       |
| 2394.025000     | -56.1       | 37.9        | -18.2       |
| 2396.725000     | -56.1       | 37.9        | -18.2       |
| 2393.975000     | -56.3       | 38.1        | -18.2       |
| 4873.994633     | -56.3       | 38.1        | -18.2       |
| 4866.514414     | -56.3       | 38.1        | -18.2       |

**Measurement Settings**

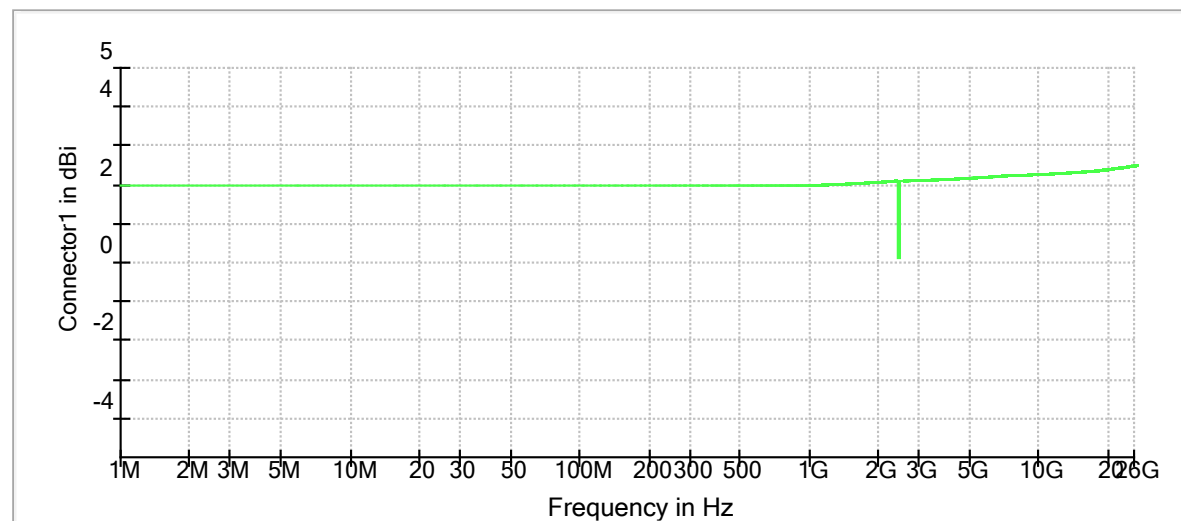
| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 1.000000              | 1000.000000          | 1               | 1                 |
| 1000.000000           | 2400.000000          | 2               | 2                 |
| 2483.500000           | 7000.000000          | 2               | 2                 |
| 7000.000000           | 18000.000000         | 2               | 2                 |
| 18000.000000          | 26000.000000         | 2               | 2                 |

Spurious

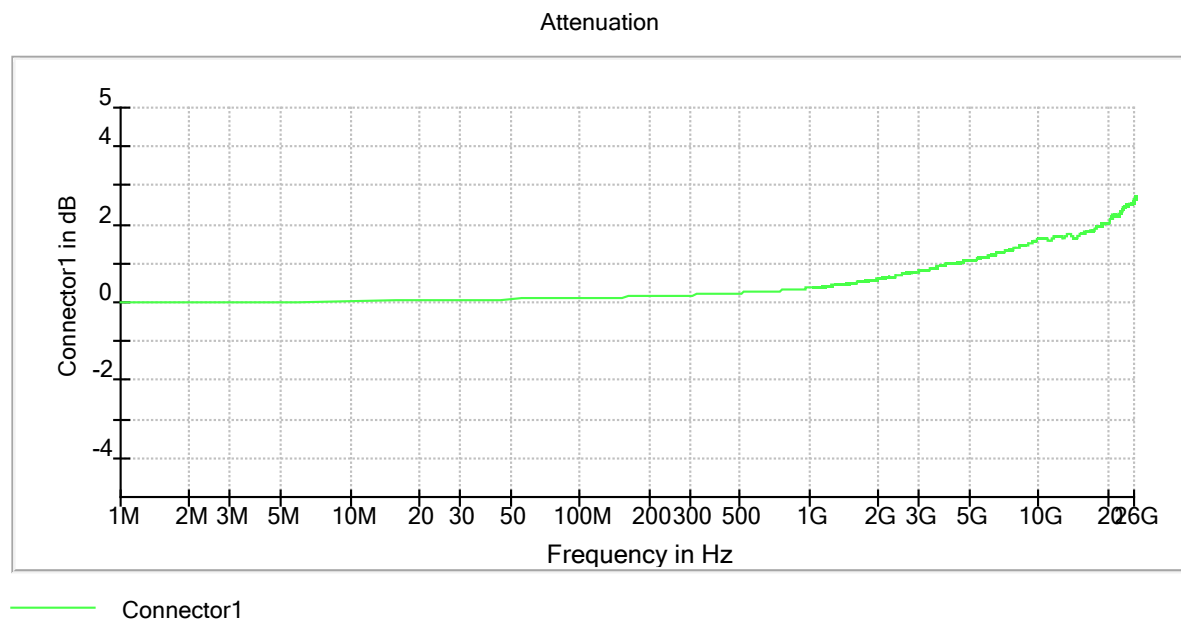


— Limit    — Sum Level    - - - Threshold    × Critical    × Final Critical

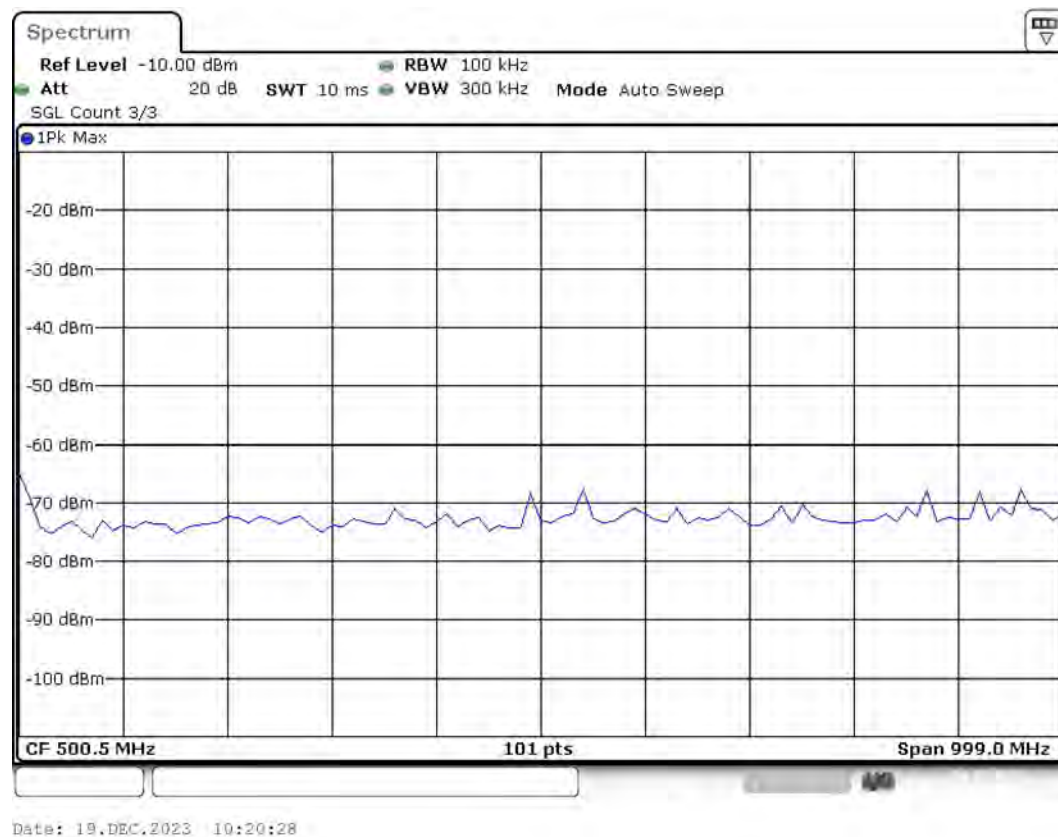
Gain



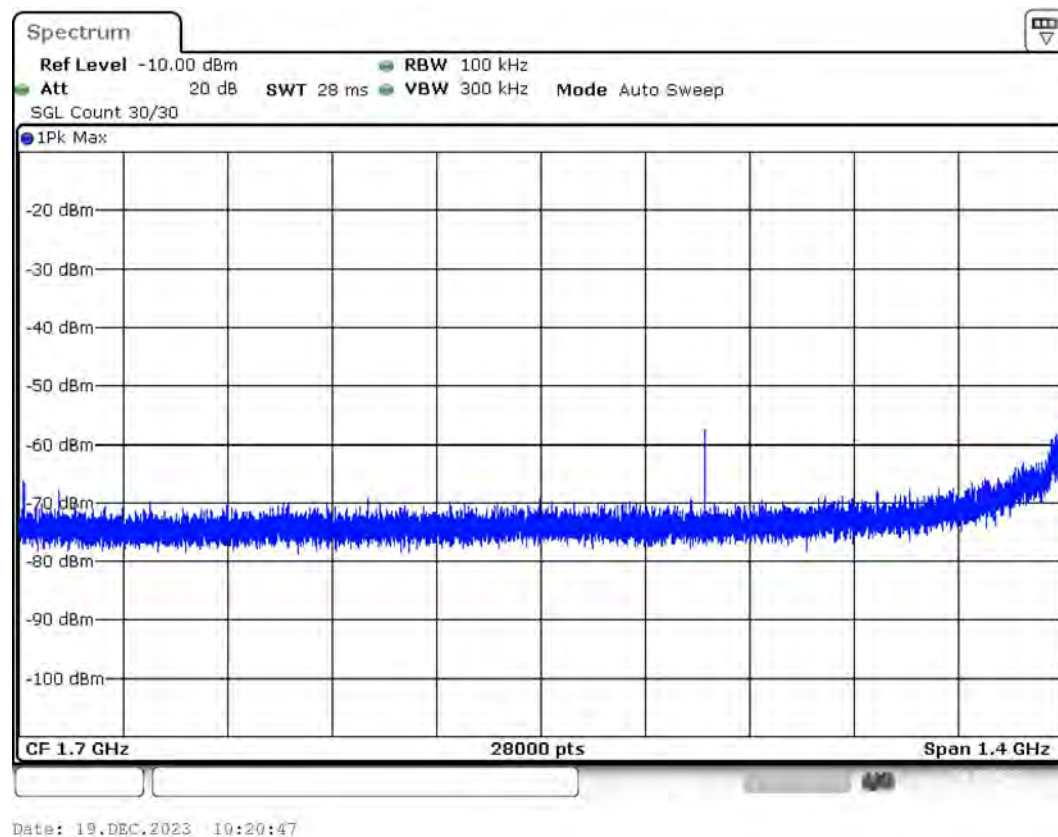
— Connector1



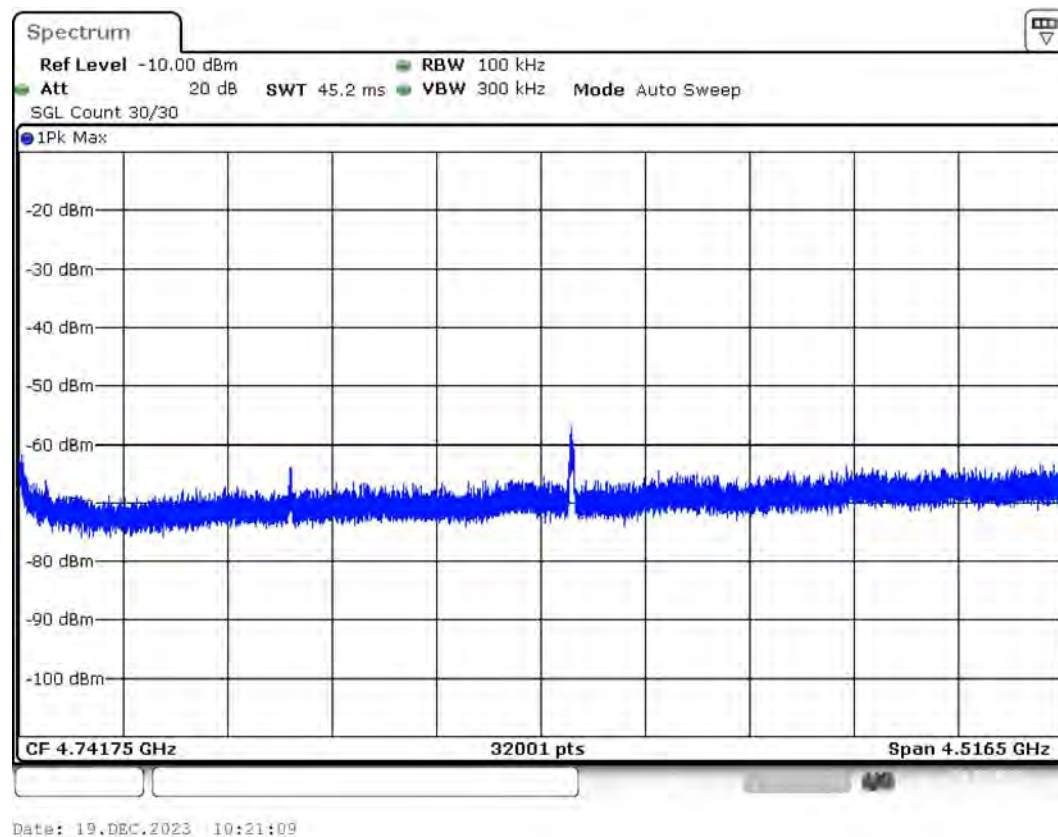
Spurious Connector 1\_0



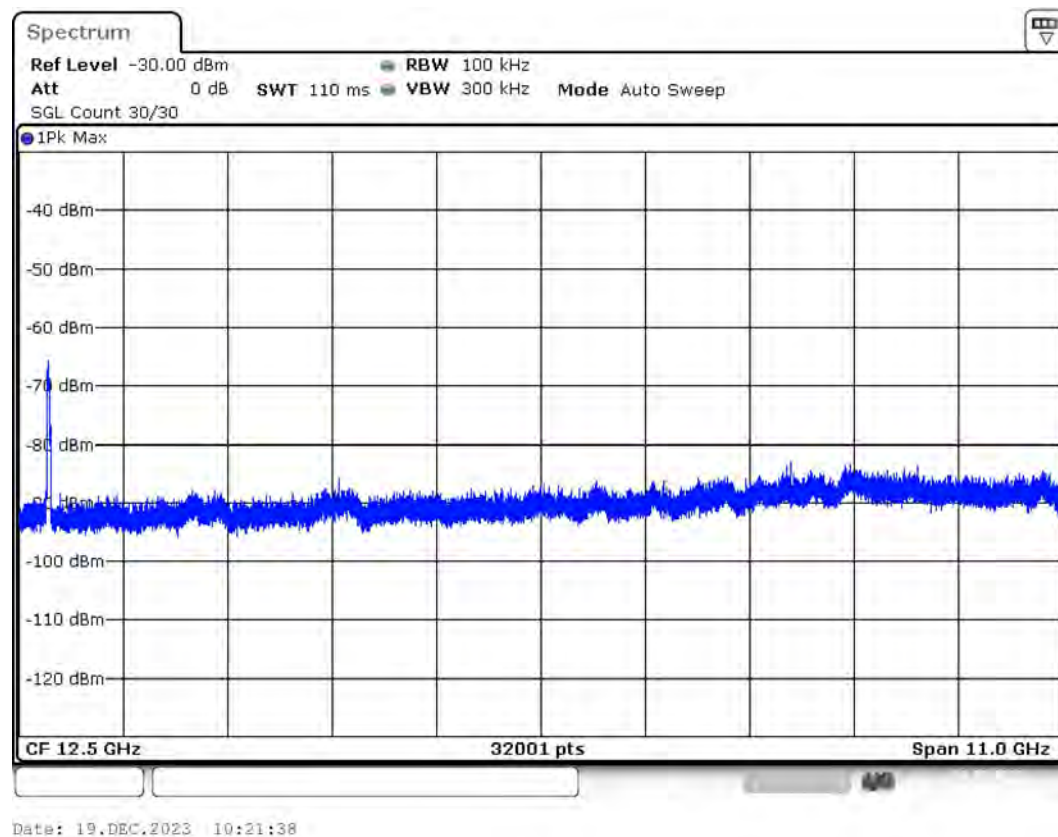
Spurious Connector 1\_1



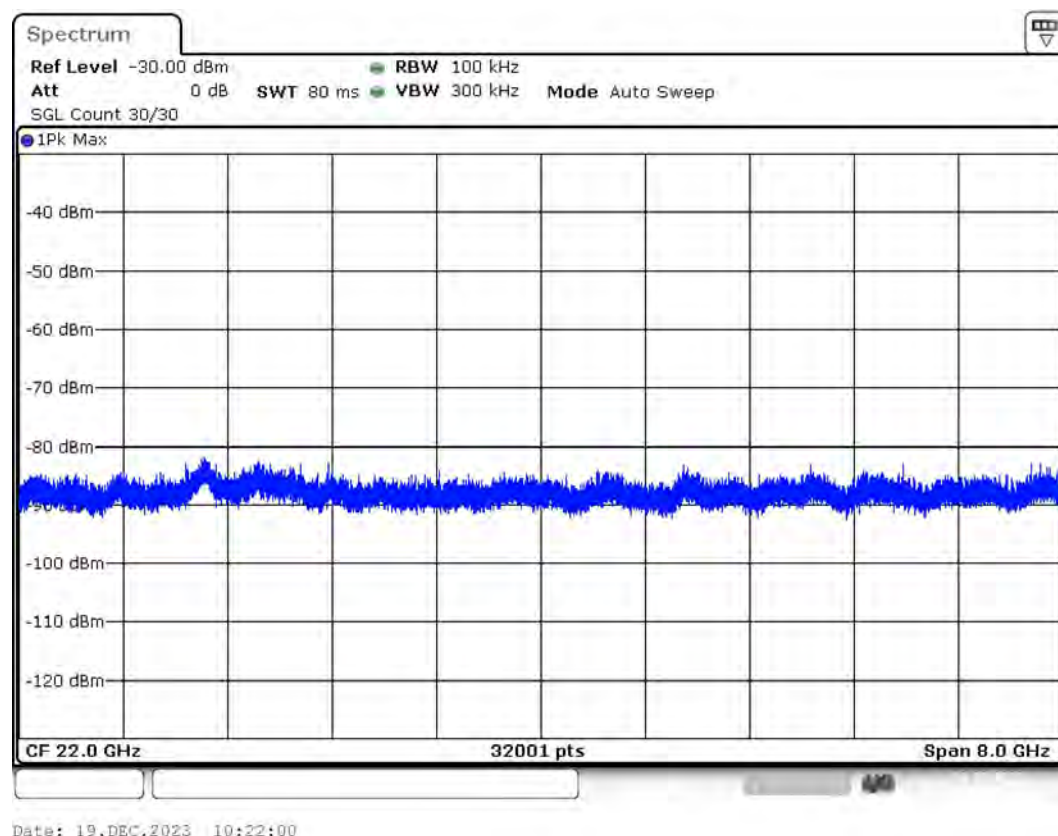
Spurious Connector 1\_2



Spurious Connector 1\_3



Spurious Connector 1\_4



## Pre Measurement 1

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 101              | ~ 101          |
| SweepTime             | 9.990 ms         | AUTO           |
| Reference Level       | -10.000 dBm      | -30.000 dBm    |
| Attenuation           | 20.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 3                | 3              |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 1.00 dB          | 1.00 dB        |
| Run                   | 1 / max. 1       | max. 1         |
| Stable                | 0 / 1            | 1              |
| Max Stable Difference | 0.00 dB          | 1.00 dB        |

## Pre Measurement 2

| Setting         | Instrument Value | Target Value   |
|-----------------|------------------|----------------|
| RBW             | 100.000 kHz      | <= 100.000 kHz |
| VBW             | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints     | 28000            | ~ 28000        |
| SweepTime       | 28.000 ms        | AUTO           |
| Reference Level | -10.000 dBm      | -30.000 dBm    |
| Attenuation     | 20.000 dB        | AUTO           |
| Detector        | MaxPeak          | MaxPeak        |
| SweepCount      | 30               | 30             |

|                              |                   |                 |
|------------------------------|-------------------|-----------------|
| <b>Filter</b>                | <b>3 dB</b>       | <b>3 dB</b>     |
| <b>Trace Mode</b>            | <b>Max Hold</b>   | <b>Max Hold</b> |
| <b>Sweep type</b>            | <b>Sweep</b>      | <b>AUTO</b>     |
| <b>Preamp</b>                | <b>off</b>        | <b>off</b>      |
| <b>Stable mode</b>           | <b>Trace</b>      | <b>Trace</b>    |
| <b>Stable value</b>          | <b>1.00 dB</b>    | <b>1.00 dB</b>  |
| <b>Run</b>                   | <b>1 / max. 1</b> | <b>max. 1</b>   |
| <b>Stable</b>                | <b>0 / 3</b>      | <b>3</b>        |
| <b>Max Stable Difference</b> | <b>0.00 dB</b>    | <b>1.00 dB</b>  |

## Emission Bandwidth 20 dB (2462 MHz; 20.000 dBm; 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

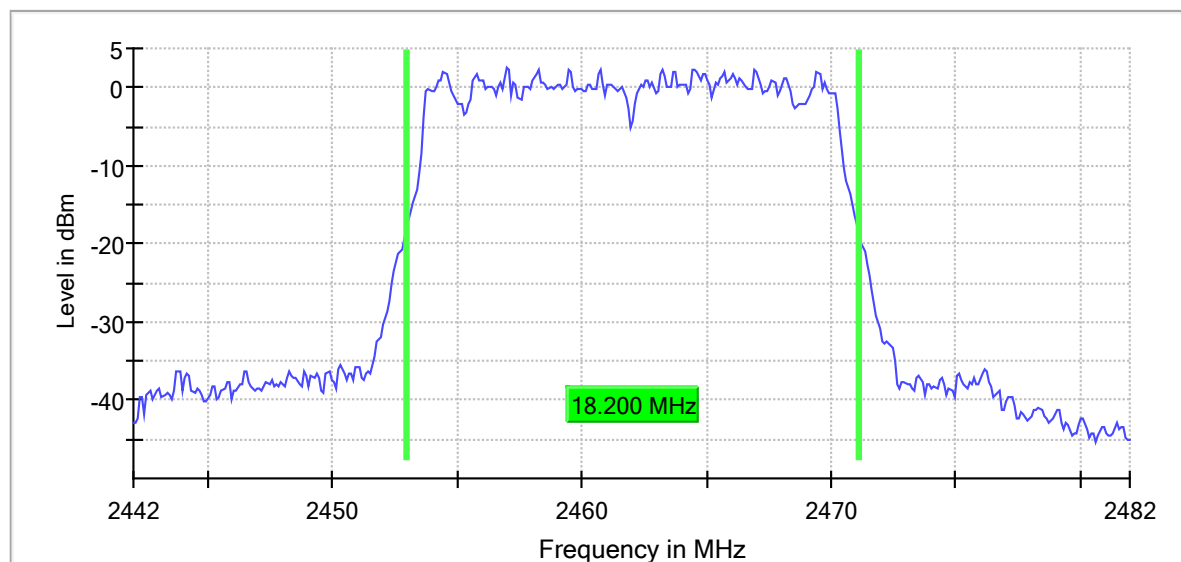
### 20 dB Bandwidth

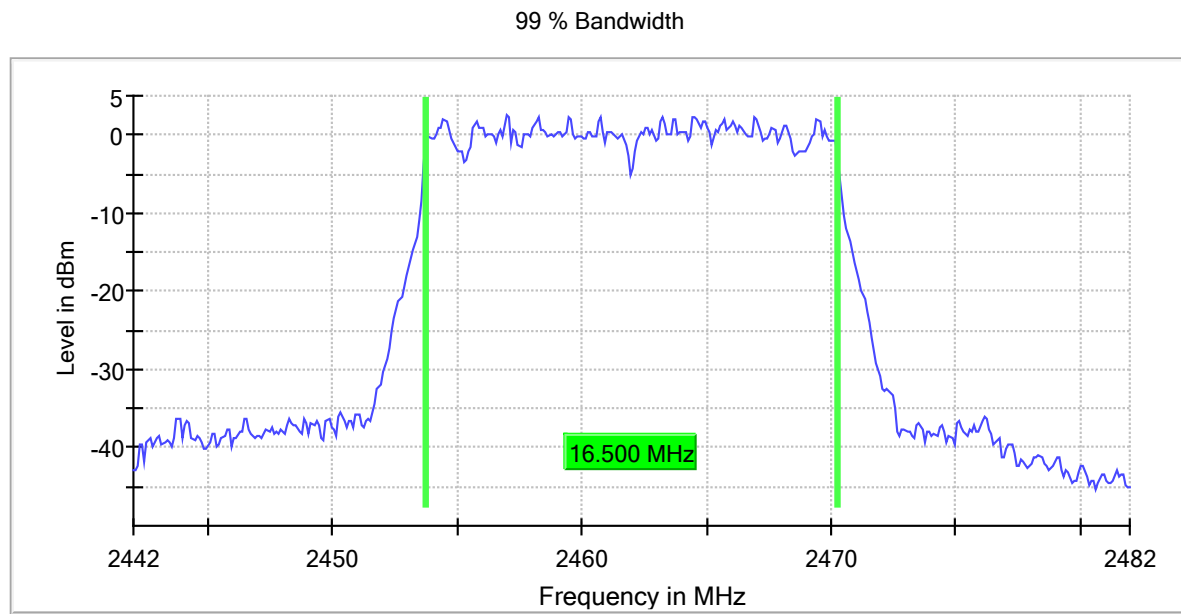
| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2462.000000         | 18.200000       | ---             | ---             | 2452.950000          | 2471.150000           |

(continuation of the "20 dB Bandwidth" table from column 6 ...)

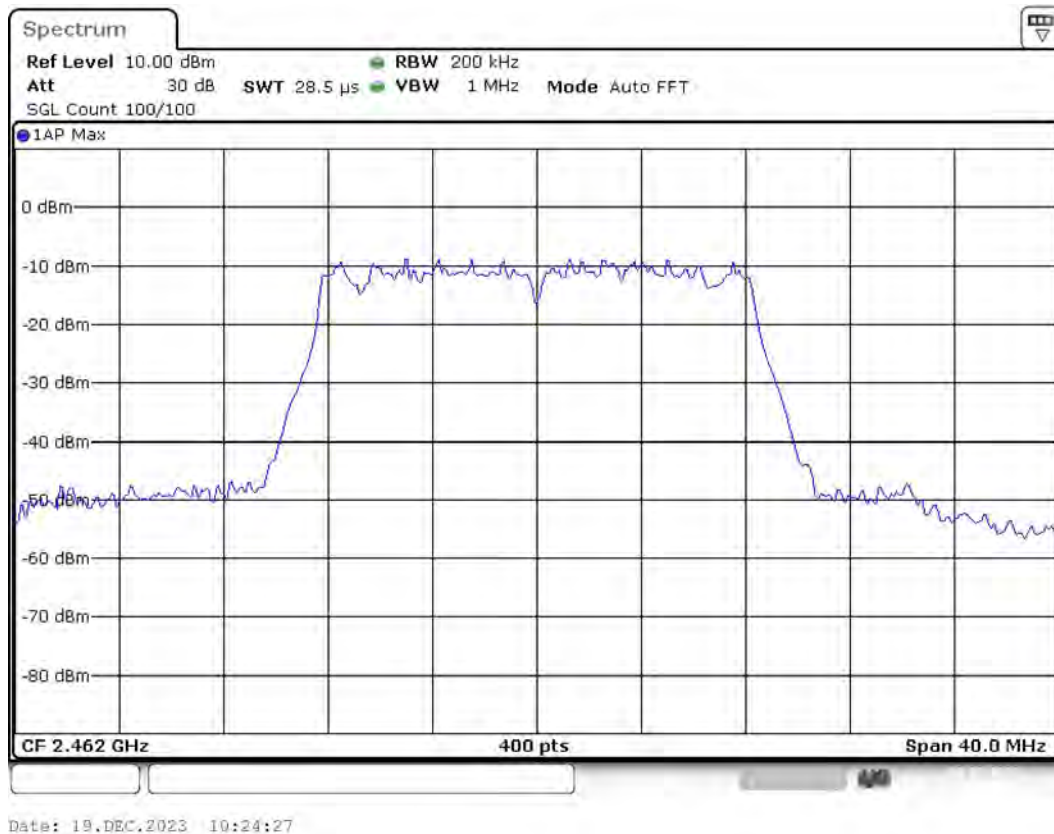
| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2462.000000         | 2.5             | PASS   |

20 dB Bandwidth





Bandwidth



## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.44200 GHz      | 2.44200 GHz    |
| Stop Frequency        | 2.48200 GHz      | 2.48200 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 µs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | Peak             | Peak           |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 1 / max. 1       | max. 1         |
| Stable                | 0 / 1            | 1              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

## Minimum Emission Bandwidth 6 dB (2462 MHz; 20.000 dBm; 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

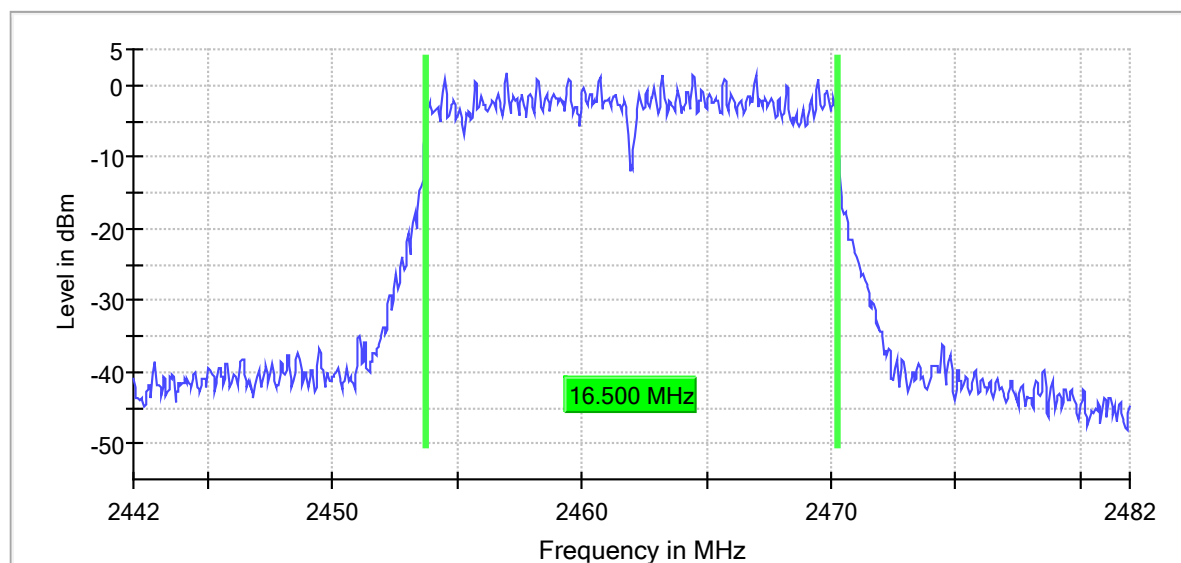
### 6 dB Bandwidth

| DUT Frequency (MHz) | Bandwidth (MHz) | Limit Min (MHz) | Limit Max (MHz) | Band Edge Left (MHz) | Band Edge Right (MHz) |
|---------------------|-----------------|-----------------|-----------------|----------------------|-----------------------|
| 2462.000000         | 16.500000       | 0.500000        | ---             | 2453.725000          | 2470.225000           |

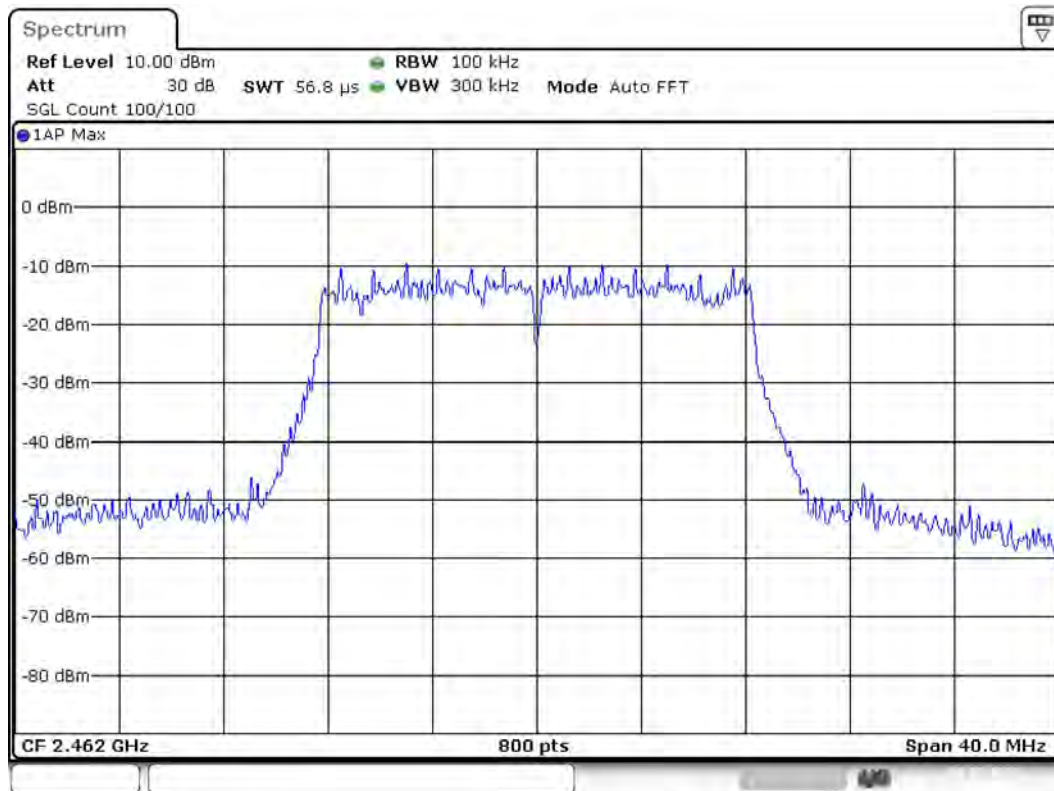
(continuation of the "6 dB Bandwidth" table from column 6 ...)

| DUT Frequency (MHz) | Max Level (dBm) | Result |
|---------------------|-----------------|--------|
| 2462.000000         | 1.7             | PASS   |

6 dB Bandwidth



Bandwidth



Date: 19, DEC, 2023 10:24:42

## Measurement

| Setting               | Instrument Value | Target Value  |
|-----------------------|------------------|---------------|
| Start Frequency       | 2.44200 GHz      | 2.44200 GHz   |
| Stop Frequency        | 2.48200 GHz      | 2.48200 GHz   |
| Span                  | 40.000 MHz       | 40.000 MHz    |
| RBW                   | 100.000 kHz      | ~ 100.000 kHz |
| VBW                   | 300.000 kHz      | ~ 300.000 kHz |
| SweepPoints           | 800              | ~ 800         |
| SweepTime             | 56.836 µs        | AUTO          |
| Reference Level       | 10.000 dBm       | 10.000 dBm    |
| Attenuation           | 30.000 dB        | AUTO          |
| Detector              | Peak             | Peak          |
| SweepCount            | 100              | 100           |
| Filter                | 3 dB             | 3 dB          |
| Trace Mode            | Max Hold         | Max Hold      |
| SweepType             | FFT              | AUTO          |
| Preamp                | off              | off           |
| Stablemode            | Trace            | Trace         |
| Stablevalue           | 0.50 dB          | 0.50 dB       |
| Run                   | 1 / max. 1       | max. 1        |
| Stable                | 0 / 1            | 1             |
| Max Stable Difference | 0.00 dB          | 0.50 dB       |

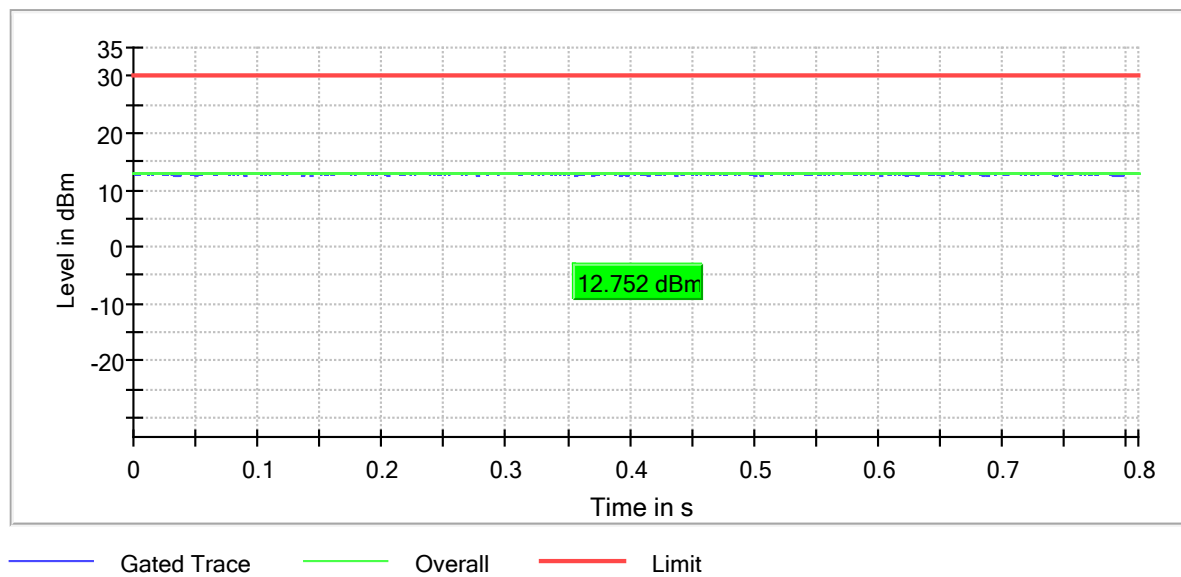
## RF output power (2462 MHz; 20.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(b), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

### Result

| DUT Frequency (MHz) | Gated RMS (dBm) | Limit Max (dBm) | Gated EIRP (dBm) | DutyCycle (%) | Result |
|---------------------|-----------------|-----------------|------------------|---------------|--------|
| 2462.000000         | 12.8            | 30.0            | 12.8             | 81.489        | PASS   |

Gated Trace



### 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 |

## Peak Power Spectral Density (2462 MHz; 20.000 dBm; 20 MHz)

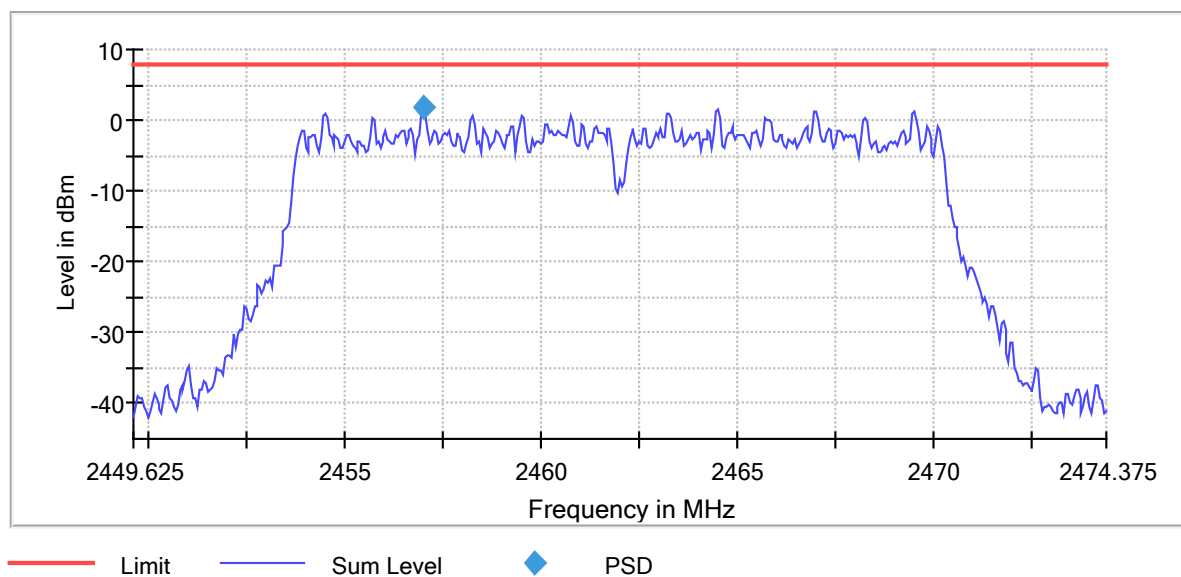
Customized settings.

Test according to FCC title 47 part 15 §15.247(a),(e), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

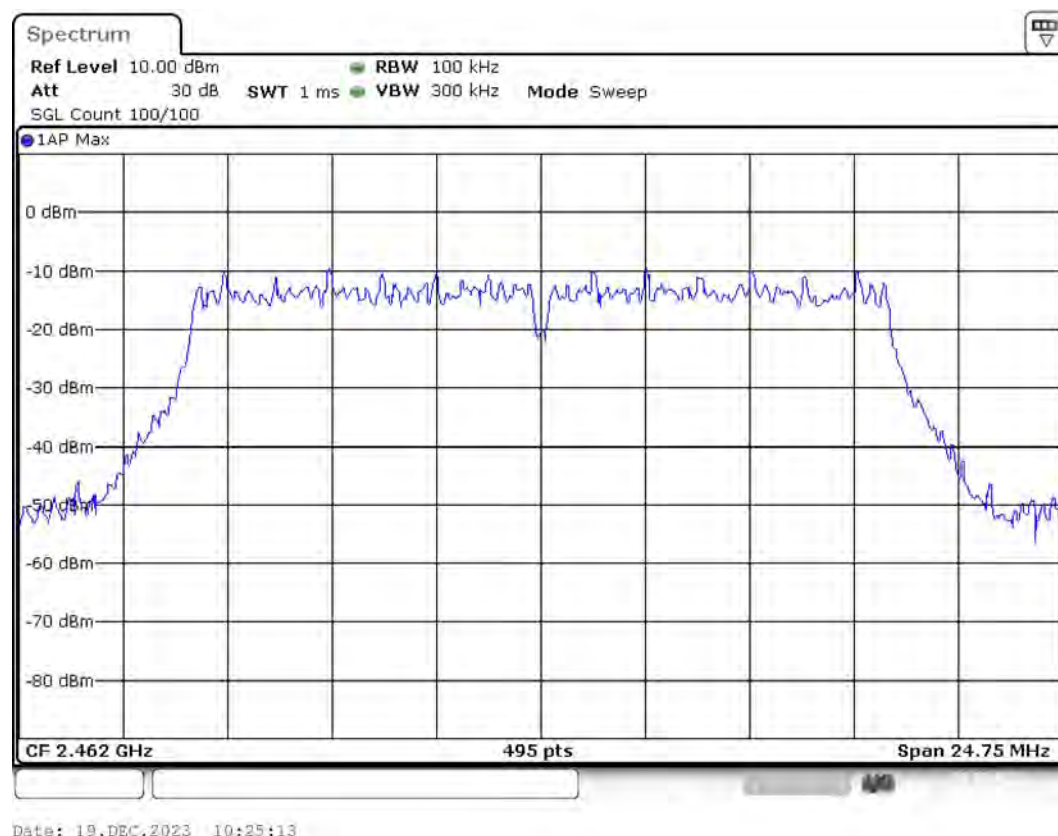
### Result

| DUT Frequency (MHz) | Frequency (MHz) | PSD (dBm) | Limit Max (dBm) | Result |
|---------------------|-----------------|-----------|-----------------|--------|
| 2462.000000         | 2457.000000     | 1.742     | 8.0             | PASS   |

Peak Power Spectral Density



PSD Connector 1



## Measurement

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.44963 GHz      | 2.44963 GHz    |
| Stop Frequency        | 2.47438 GHz      | 2.47438 GHz    |
| Span                  | 24.750 MHz       | 24.750 MHz     |
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 495              | ~ 495          |
| SweepTime             | 1.040 ms         | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | Peak             | Peak           |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | Sweep          |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 1 / max. 1       | max. 1         |
| Stable                | 0 / 1            | 1              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

## Band Edge high (2462 MHz; 20.000 dBm; 20 MHz)

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2462.000000         | PASS   |

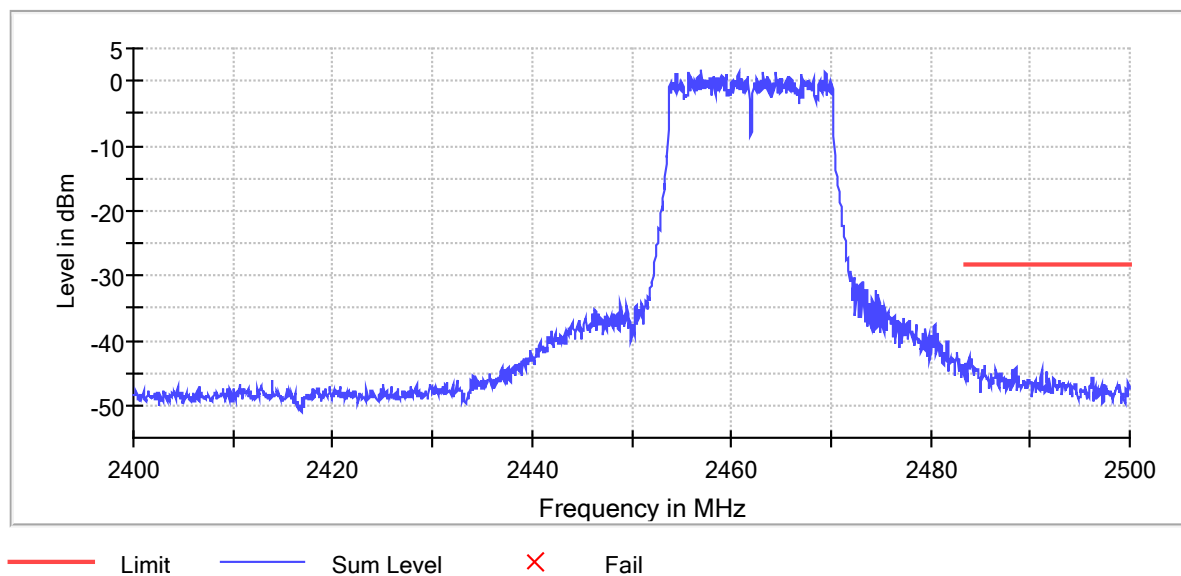
### Inband Peak

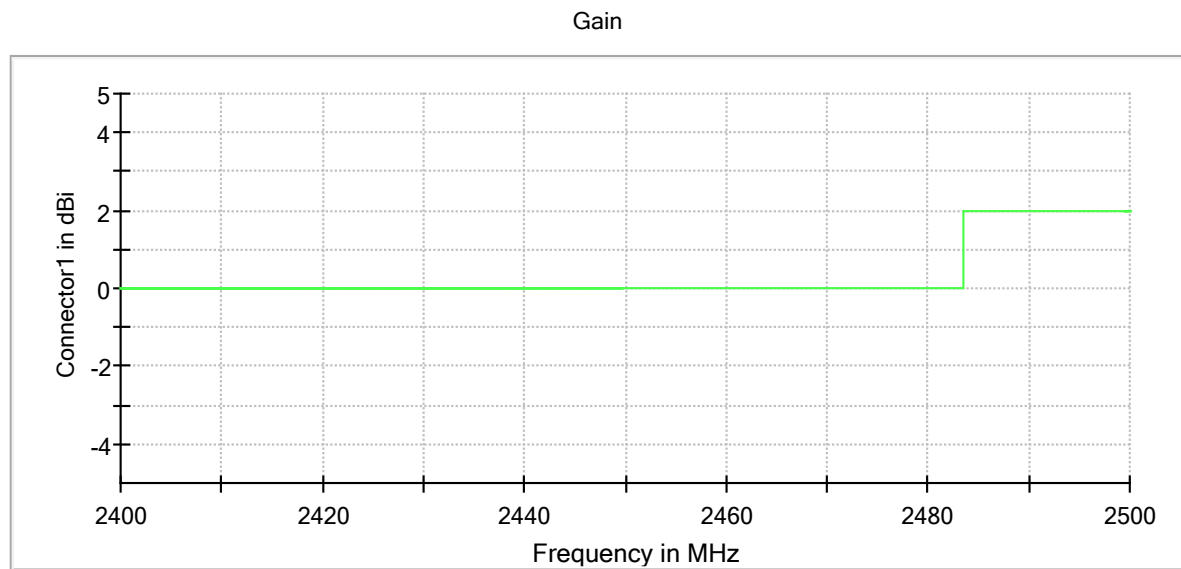
| Frequency (MHz) | Level (dBm) |
|-----------------|-------------|
| 2456.975000     | 1.8         |

### Measurements

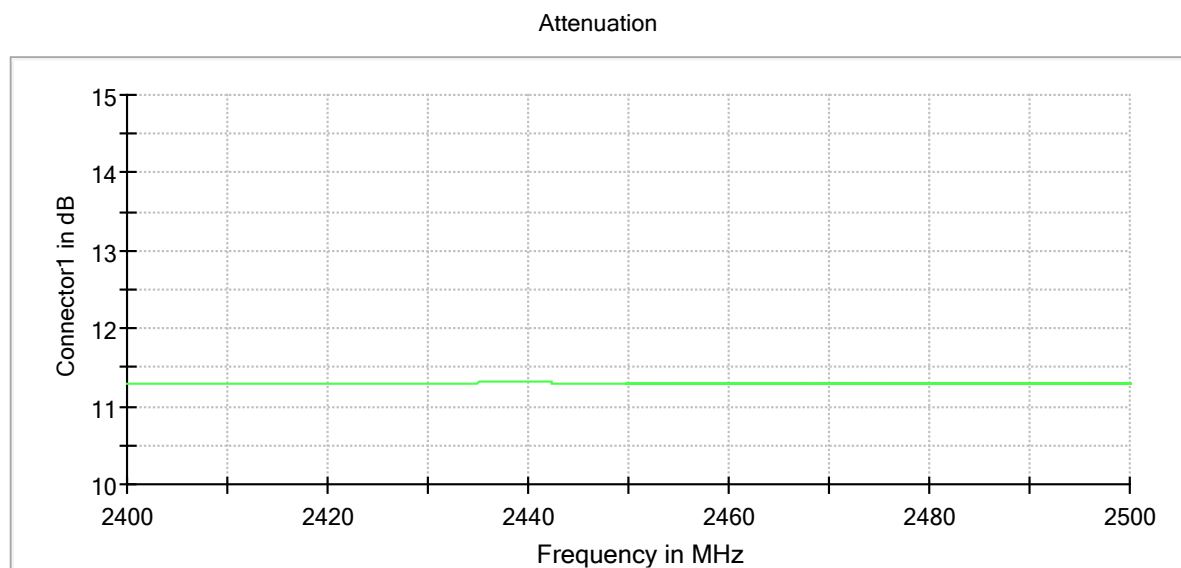
| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) | Result |
|-----------------|-------------|-------------|-------------|--------|
| 2483.875000     | -42.5       | 14.3        | -28.2       | PASS   |
| 2484.075000     | -42.9       | 14.7        | -28.2       | PASS   |
| 2484.125000     | -42.9       | 14.7        | -28.2       | PASS   |
| 2484.175000     | -43.1       | 14.9        | -28.2       | PASS   |
| 2483.925000     | -43.2       | 15.0        | -28.2       | PASS   |
| 2483.825000     | -43.4       | 15.2        | -28.2       | PASS   |
| 2483.525000     | -43.6       | 15.3        | -28.2       | PASS   |
| 2483.575000     | -43.7       | 15.5        | -28.2       | PASS   |
| 2484.225000     | -43.8       | 15.5        | -28.2       | PASS   |
| 2485.475000     | -43.8       | 15.5        | -28.2       | PASS   |
| 2483.975000     | -43.8       | 15.6        | -28.2       | PASS   |
| 2485.425000     | -43.9       | 15.7        | -28.2       | PASS   |
| 2484.475000     | -44.2       | 15.9        | -28.2       | PASS   |
| 2488.575000     | -44.2       | 15.9        | -28.2       | PASS   |
| 2485.125000     | -44.3       | 16.1        | -28.2       | PASS   |

Band Edge



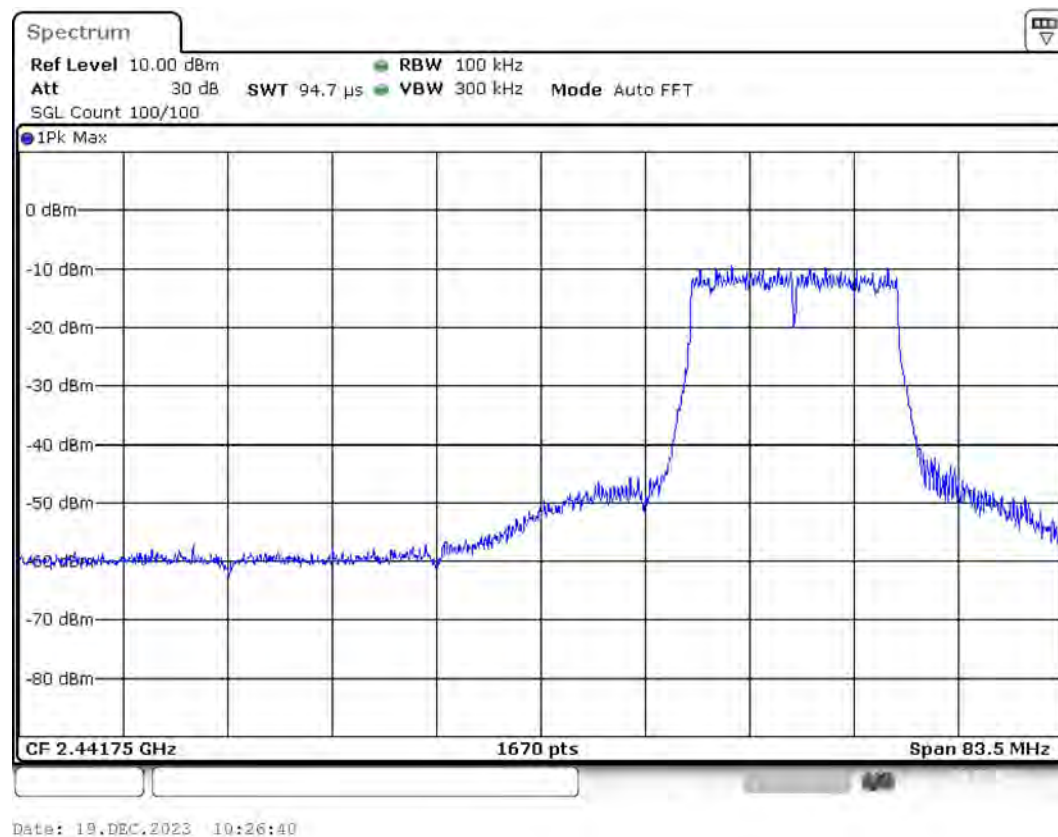


Connector1

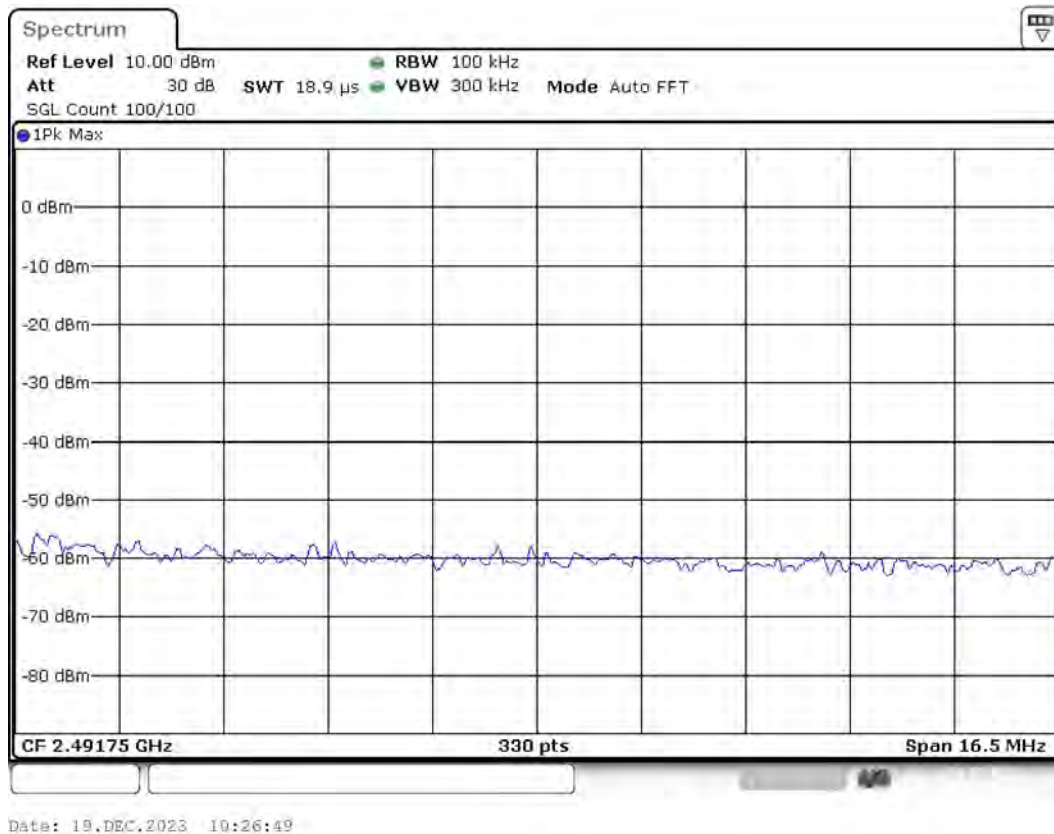


Connector1

Band Edge Connector 1\_0



Band Edge Connector 1\_1



## Measurement 1

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| Start Frequency       | 2.40000 GHz      | 2.40000 GHz    |
| Stop Frequency        | 2.48350 GHz      | 2.48350 GHz    |
| Span                  | 83.500 MHz       | 83.500 MHz     |
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 1670             | ~ 1670         |
| Sweptime              | 94.727 μs        | AUTO           |
| Reference Level       | 10.000 dBm       | 10.000 dBm     |
| Attenuation           | 30.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 100              | 100            |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | FFT              | AUTO           |
| Preamplifier          | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 67 / max. 150    | max. 150       |
| Stable                | 3 / 3            | 3              |
| Max Stable Difference | 0.24 dB          | 0.50 dB        |

## Measurement 2

| Setting         | Instrument Value | Target Value   |
|-----------------|------------------|----------------|
| Start Frequency | 2.48350 GHz      | 2.48350 GHz    |
| Stop Frequency  | 2.50000 GHz      | 2.50000 GHz    |
| Span            | 16.500 MHz       | 16.500 MHz     |
| RBW             | 100.000 kHz      | <= 100.000 kHz |
| VBW             | 300.000 kHz      | >= 300.000 kHz |

|                       |                |            |
|-----------------------|----------------|------------|
| SweepPoints           | 330            | ~ 330      |
| SweepTime             | 18.945 $\mu$ s | AUTO       |
| Reference Level       | 10.000 dBm     | 10.000 dBm |
| Attenuation           | 30.000 dB      | AUTO       |
| Detector              | MaxPeak        | MaxPeak    |
| SweepCount            | 100            | 100        |
| Filter                | 3 dB           | 3 dB       |
| Trace Mode            | Max Hold       | Max Hold   |
| SweepType             | FFT            | AUTO       |
| Preamp                | off            | off        |
| Stablemode            | Trace          | Trace      |
| Stablevalue           | 0.50 dB        | 0.50 dB    |
| Run                   | 4 / max. 150   | max. 150   |
| Stable                | 3 / 3          | 3          |
| Max Stable Difference | 0.00 dB        | 0.50 dB    |

## Tx Spurious Emission (2462 MHz; 20.000 dBm; 20 MHz)

Customized settings.

Test according to FCC title 47 part 15 §15.247(d), KDB 558074 D01 DTS Meas Guidance v03r05 and ANSI C63.10-2013

### Result

| DUT Frequency (MHz) | Result |
|---------------------|--------|
| 2462.000000         | PASS   |

### Final measurements

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

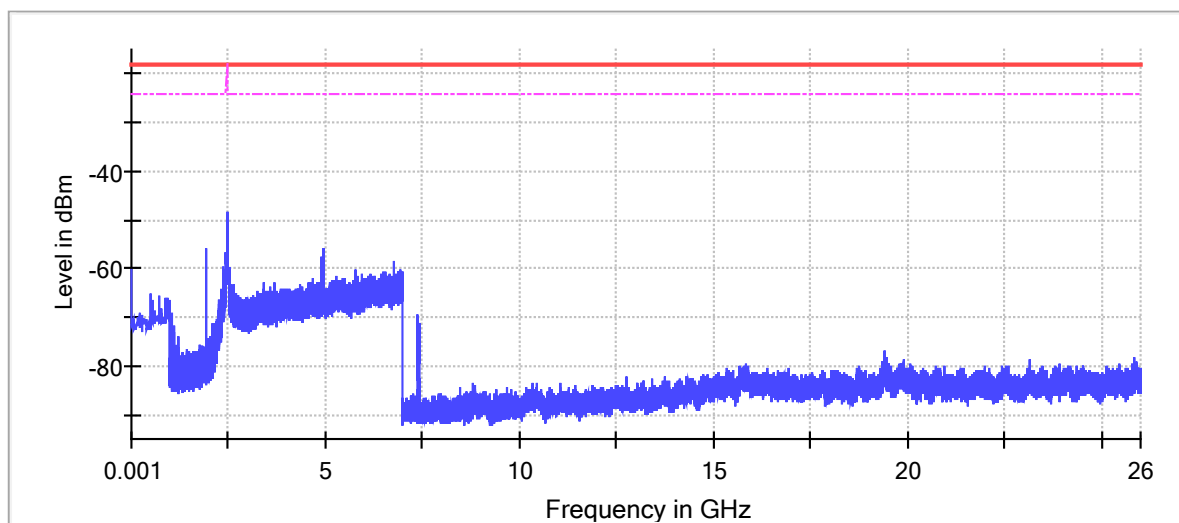
### Pre Measurements

| Frequency (MHz) | Level (dBm) | Margin (dB) | Limit (dBm) |
|-----------------|-------------|-------------|-------------|
| 2484.276249     | -48.4       | 30.1        | -18.3       |
| 2484.135113     | -48.8       | 30.6        | -18.3       |
| 2484.417385     | -48.9       | 30.7        | -18.3       |
| 2483.993977     | -49.3       | 31.1        | -18.3       |
| 2483.570568     | -49.8       | 31.5        | -18.3       |
| 2485.123066     | -50.4       | 32.1        | -18.3       |
| 2484.558522     | -50.4       | 32.1        | -18.3       |
| 2484.699658     | -50.5       | 32.3        | -18.3       |
| 2483.711704     | -50.7       | 32.4        | -18.3       |
| 2484.840794     | -50.8       | 32.5        | -18.3       |
| 2485.687611     | -50.9       | 32.6        | -18.3       |
| 2485.264203     | -51.3       | 33.0        | -18.3       |
| 2486.252156     | -51.4       | 33.1        | -18.3       |
| 2486.534429     | -51.5       | 33.2        | -18.3       |
| 2486.393292     | -51.6       | 33.3        | -18.3       |

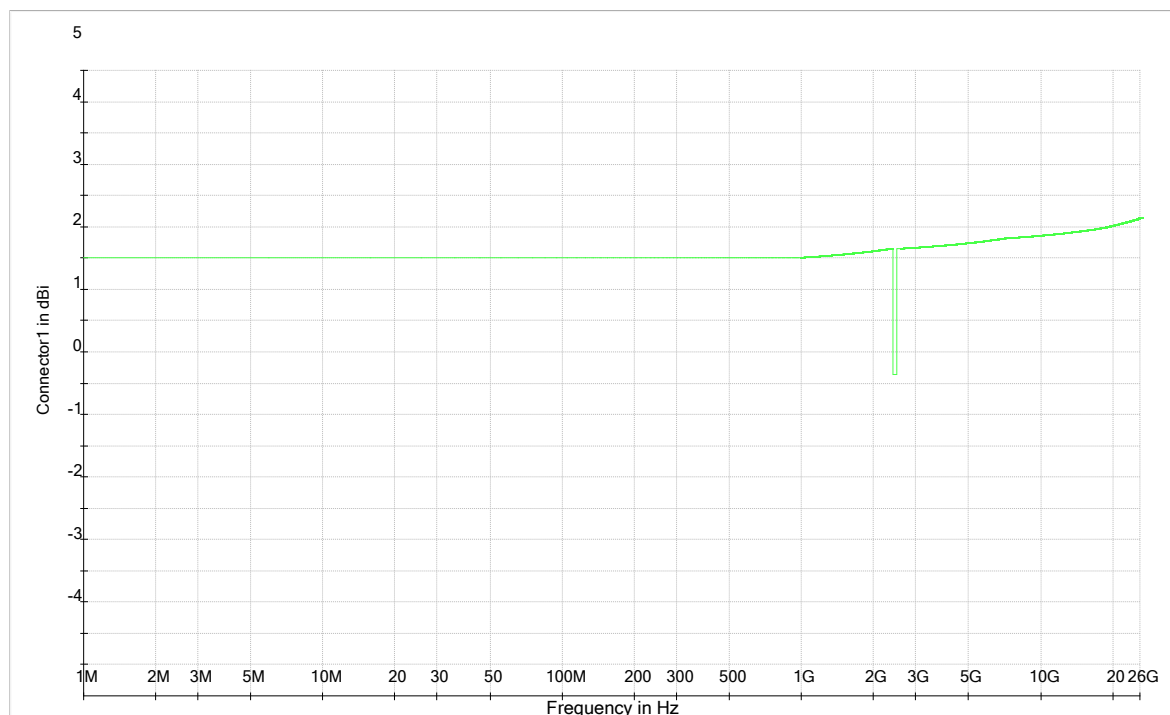
### Measurement Settings

| Start Frequency (MHz) | Stop Frequency (MHz) | Pre Measurement | Final Measurement |
|-----------------------|----------------------|-----------------|-------------------|
| 1.000000              | 1000.000000          | 1               | 1                 |
| 1000.000000           | 2400.000000          | 2               | 2                 |
| 2483.500000           | 7000.000000          | 2               | 2                 |
| 7000.000000           | 18000.000000         | 2               | 2                 |
| 18000.000000          | 26000.000000         | 2               | 2                 |

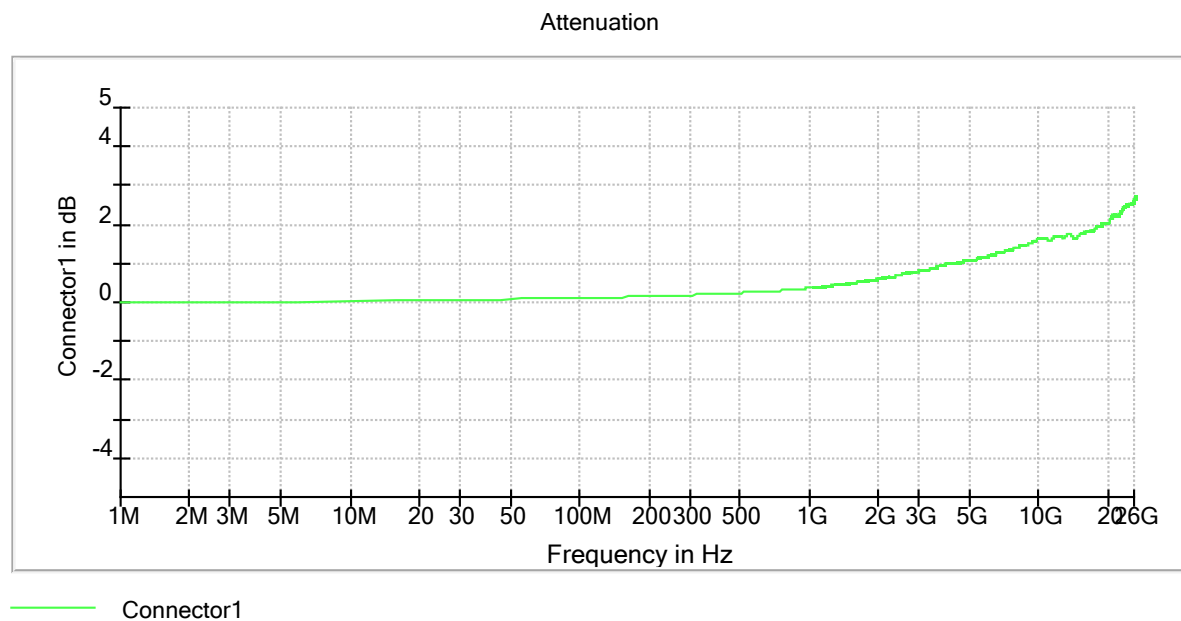
# Spurious



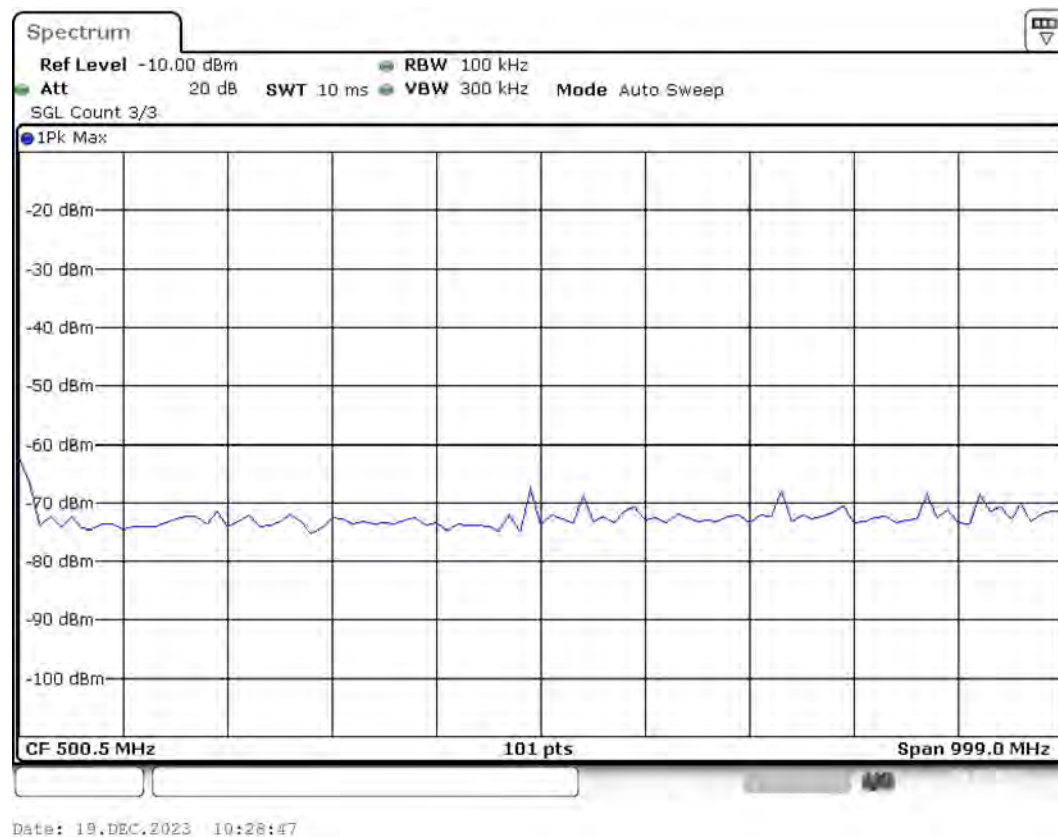
— Limit    — Sum Level    - - - Threshold    × Critical    × Final Critical



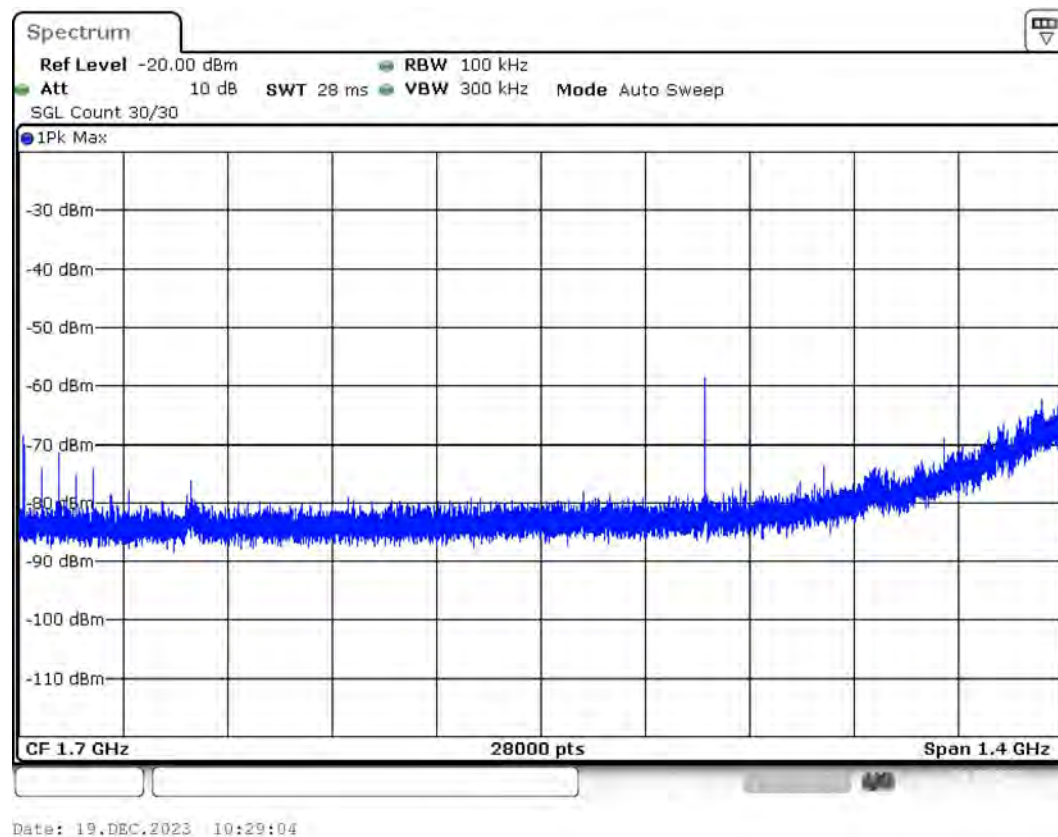
— Connector1



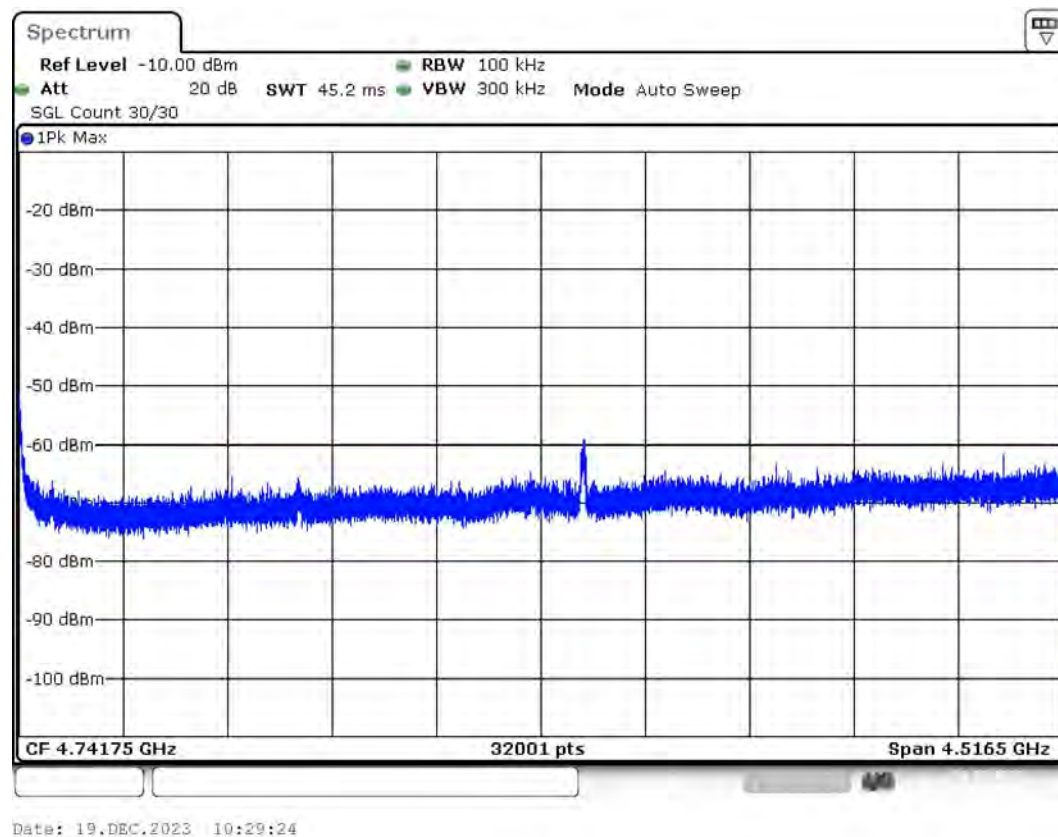
Spurious Connector 1\_0



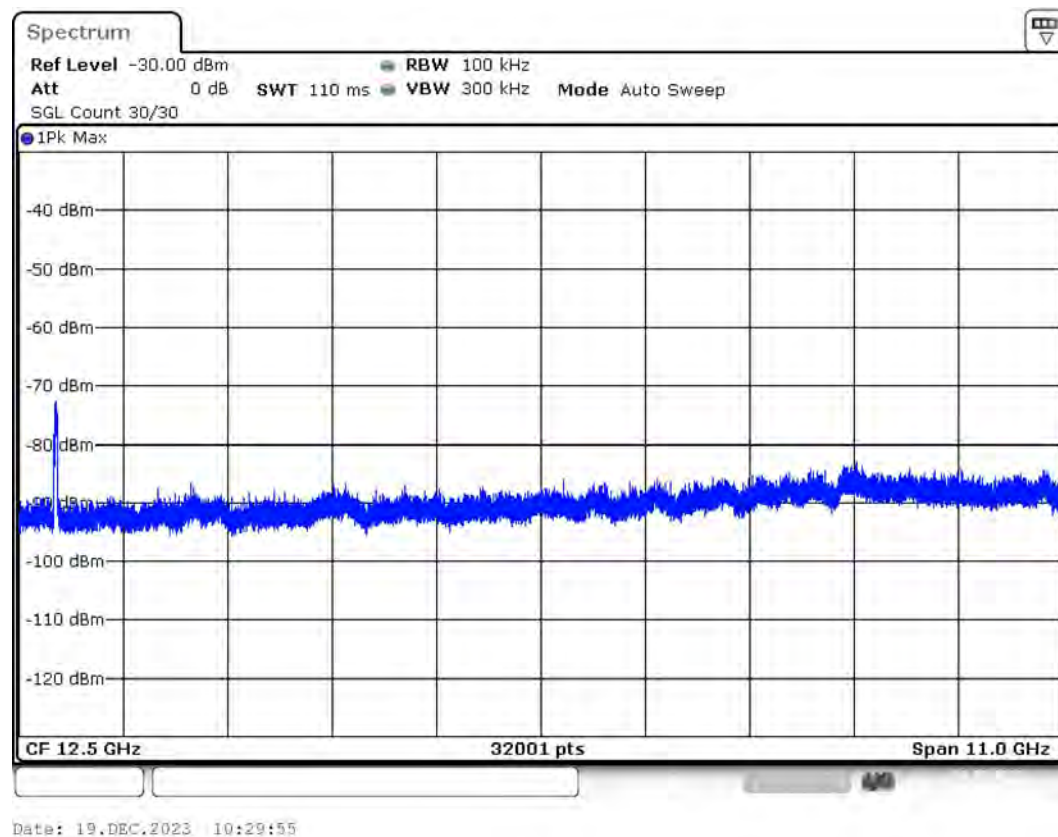
Spurious Connector 1\_1



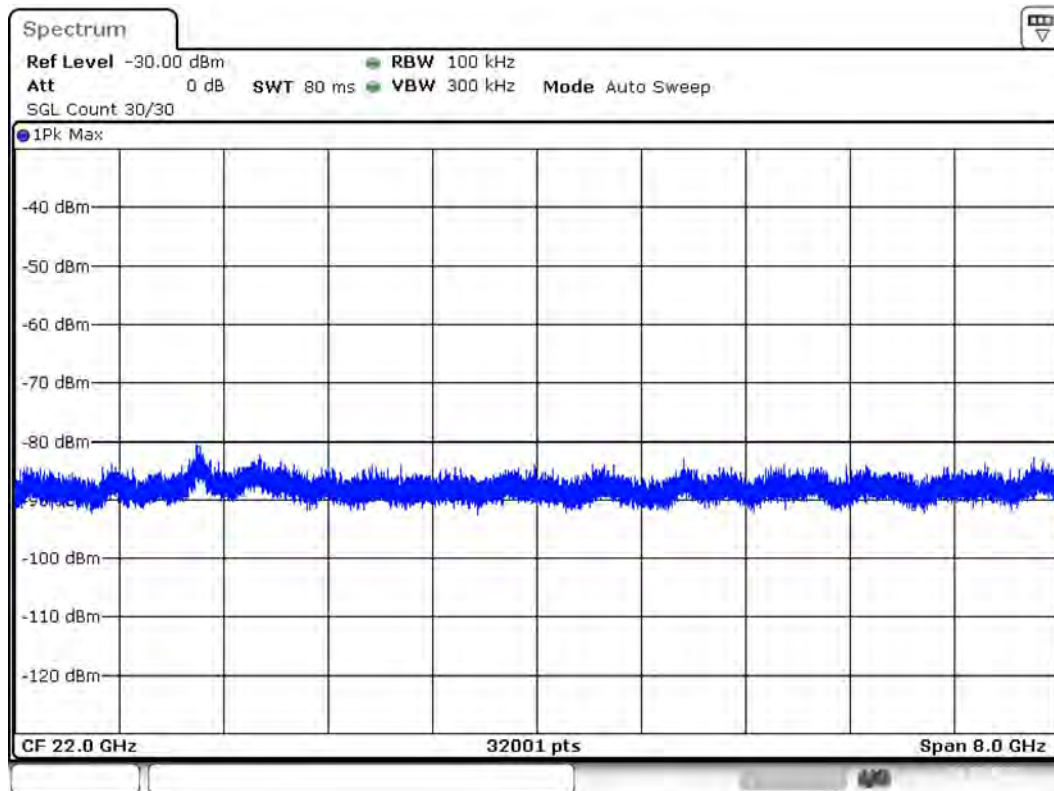
Spurious Connector 1\_2



Spurious Connector 1\_3



Spurious Connector 1\_4



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## Pre Measurement 1

| Setting               | Instrument Value | Target Value   |
|-----------------------|------------------|----------------|
| RBW                   | 100.000 kHz      | <= 100.000 kHz |
| VBW                   | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints           | 101              | ~ 101          |
| SweepTime             | 9.990 ms         | AUTO           |
| Reference Level       | -10.000 dBm      | -30.000 dBm    |
| Attenuation           | 20.000 dB        | AUTO           |
| Detector              | MaxPeak          | MaxPeak        |
| SweepCount            | 3                | 3              |
| Filter                | 3 dB             | 3 dB           |
| Trace Mode            | Max Hold         | Max Hold       |
| SweepType             | Sweep            | AUTO           |
| Preamp                | off              | off            |
| Stablemode            | Trace            | Trace          |
| Stablevalue           | 0.50 dB          | 0.50 dB        |
| Run                   | 1 / max. 1       | max. 1         |
| Stable                | 0 / 1            | 1              |
| Max Stable Difference | 0.00 dB          | 0.50 dB        |

## Pre Measurement 2

| Setting         | Instrument Value | Target Value   |
|-----------------|------------------|----------------|
| RBW             | 100.000 kHz      | <= 100.000 kHz |
| VBW             | 300.000 kHz      | >= 300.000 kHz |
| SweepPoints     | 28000            | ~ 28000        |
| SweepTime       | 28.000 ms        | AUTO           |
| Reference Level | -20.000 dBm      | -30.000 dBm    |
| Attenuation     | 10.000 dB        | AUTO           |
| Detector        | MaxPeak          | MaxPeak        |
| SweepCount      | 30               | 30             |

|                              |                   |                 |
|------------------------------|-------------------|-----------------|
| <b>Filter</b>                | <b>3 dB</b>       | <b>3 dB</b>     |
| <b>Trace Mode</b>            | <b>Max Hold</b>   | <b>Max Hold</b> |
| <b>Sweep type</b>            | <b>Sweep</b>      | <b>AUTO</b>     |
| <b>Preamp</b>                | <b>off</b>        | <b>off</b>      |
| <b>Stable mode</b>           | <b>Trace</b>      | <b>Trace</b>    |
| <b>Stable value</b>          | <b>1.00 dB</b>    | <b>1.00 dB</b>  |
| <b>Run</b>                   | <b>1 / max. 1</b> | <b>max. 1</b>   |
| <b>Stable</b>                | <b>0 / 3</b>      | <b>3</b>        |
| <b>Max Stable Difference</b> | <b>0.00 dB</b>    | <b>1.00 dB</b>  |