

# Conducted test results

No.1-8801-24-01-18\_TR1-A201-R1

March 11, 2025

|                  |                              |
|------------------|------------------------------|
| Test Standard(s) | FCC 15.407 - NI              |
|                  | ISED RSS247 - NI             |
|                  | FCC 15.407, ISED RSS247 - NI |

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| FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3 | 95  |
| FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx n-HT20 mode U-NII-3       | 97  |
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| FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3 | 114 |
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| FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT40 mode U-NII-3 | 152 |
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|                                                                                      |            |
|--------------------------------------------------------------------------------------|------------|
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| FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx ac-VHT80 mode U-NII-3       | <b>173</b> |

## EUT Information

### EUT DEFINITION

|                      |                |
|----------------------|----------------|
| Manufacturer         | Leica          |
| Model                | 4246           |
| Product              | Digital camera |
| Serial number        | 6118785        |
| Setup number         | 1.0            |
| Version SW           | NI             |
| Version FW           | NI             |
| Version HW           | NI             |
| Comment 1            |                |
| Comment 2            |                |
| Temperature [°C] min | 0              |
| Temperature [°C] nom | 20             |
| Temperature [°C] max | 40             |
| Voltage [V] min      | 6.2            |
| Voltage [V] nom      | 7.4            |
| Voltage [V] max      | 8.4            |

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

### References

|                                               |                                                            |
|-----------------------------------------------|------------------------------------------------------------|
| TC start                                      | 11.03.2025 09:45:55                                        |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                  |
| System version                                | 5.1.6.0                                                    |
| Standard   Version                            | FCC 15.407   NI                                            |
| Method                                        | KDB789033 D02, F., E.2.e.                                  |
| Description                                   | FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3 |
| Information                                   |                                                            |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx a mode                            |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | True   Freq [MHz] 5745                    |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5745 MHz

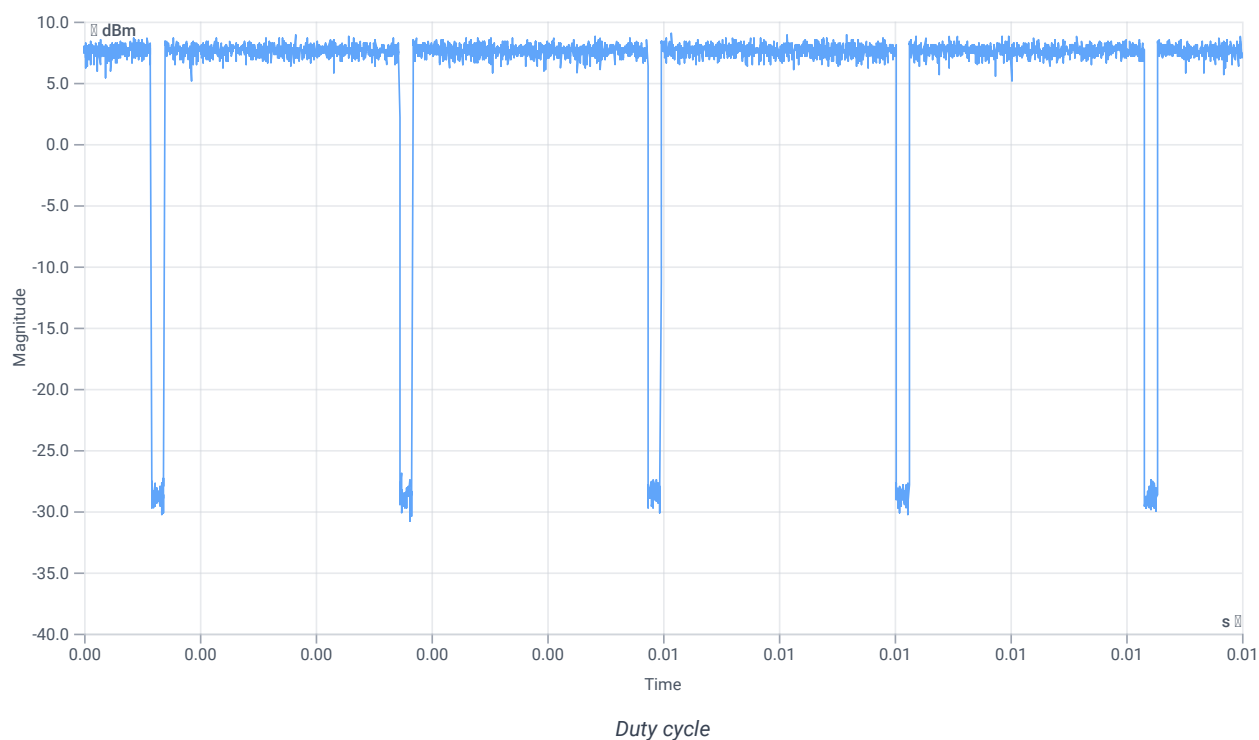
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 7.18     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5742.600 | MHz  | INFO    |

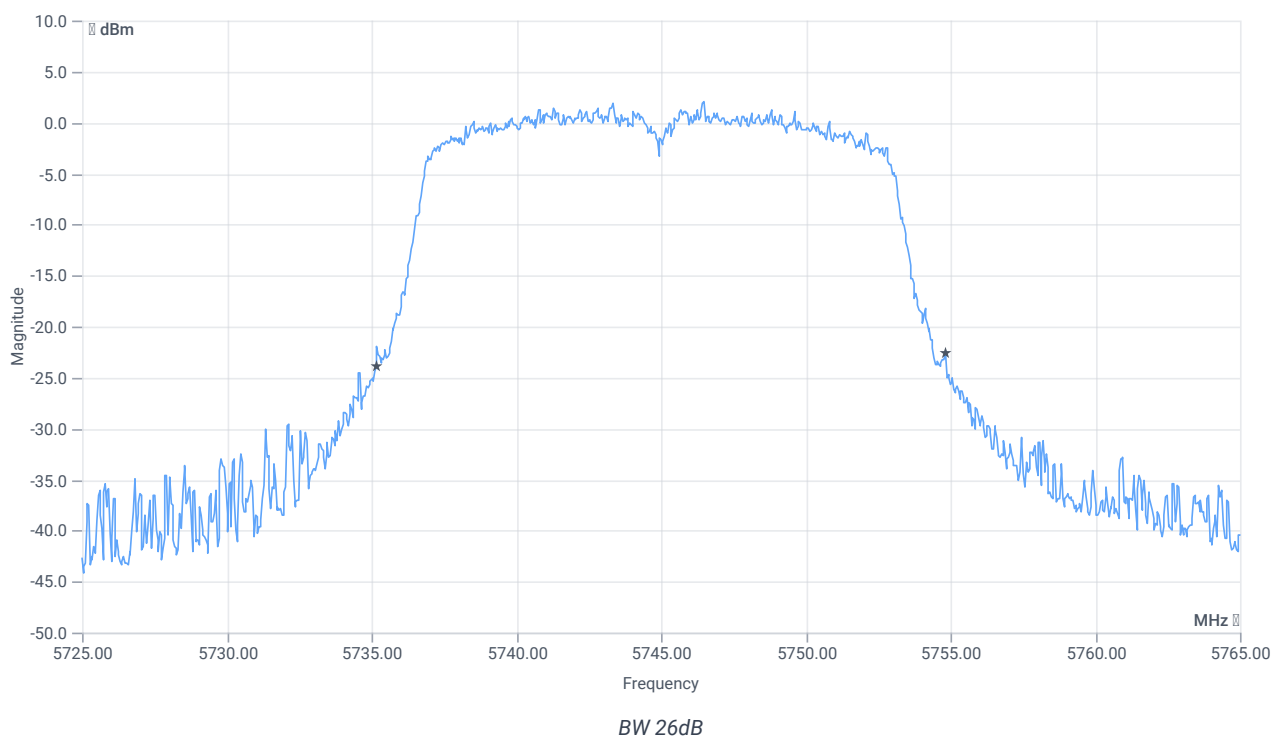
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 4    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.945    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.246    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.944    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.25     | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 2.025    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.117    | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.12     | ms   | INFO    |



## Evaluation bandwidth



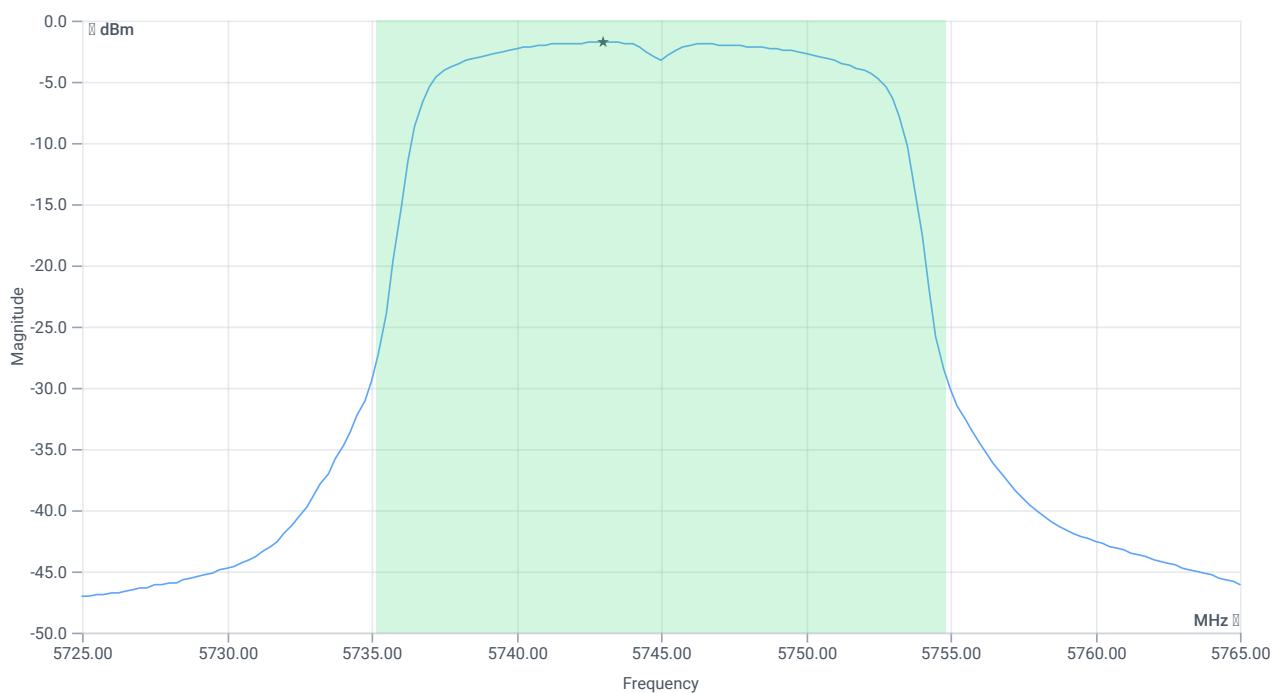
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 19.68     | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5735.1600 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5754.8400 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.18   12.81   25   |
| Start [MHz]   Stop [MHz]                             | 5725.000   5765.000  |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



Max OP and PSD

## RESULT

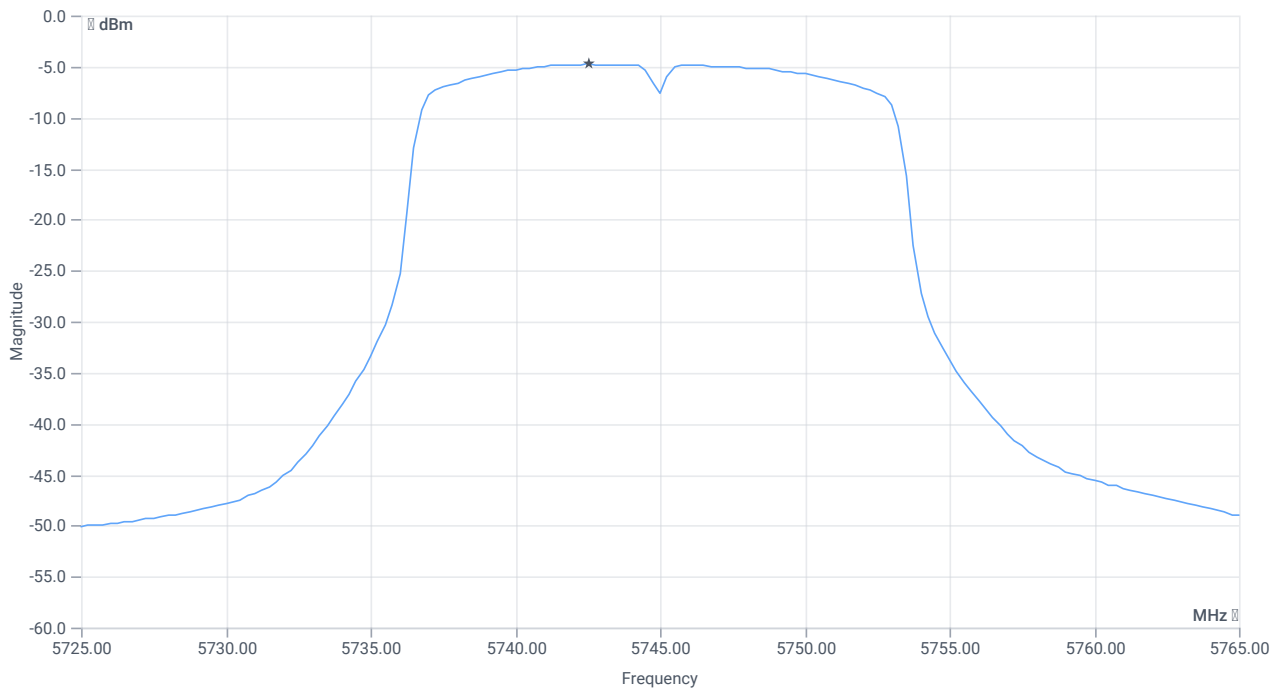
### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                        | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 9.28     | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.25     | dB   | INFO    |
| LIMIT absolute:                    |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 9.53     | dBm  | PASS    |
| LIMIT: 11 dBm + 10 log 19.68       |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 23.94       | 9.53     | dBm  | na      |

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.18   12.81   25   |
| Start [MHz]   Stop [MHz]                             | 5725.000   5765.000  |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



## RESULT

### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                              | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         | ---         | -4.76    | dBm/0.5MHz | INFO    |
| Duty cycle correction                    | ---         | ---         | 0.25     | dB         | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -4.51    | dBm/0.5MHz | PASS    |

### Verdict

PASS

# ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

## References

|                                               |                                                      |
|-----------------------------------------------|------------------------------------------------------|
| TC start                                      | 11.03.2025 09:46:47                                  |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                            |
| System version                                | 5.1.6.0                                              |
| Standard   Version                            | ISED RSS247   NI                                     |
| Method                                        |                                                      |
| Description                                   | ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-3 |
| Information                                   |                                                      |

## EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

## Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

## Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx a mode                            |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | True   Freq [MHz] 5745                    |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5745 MHz

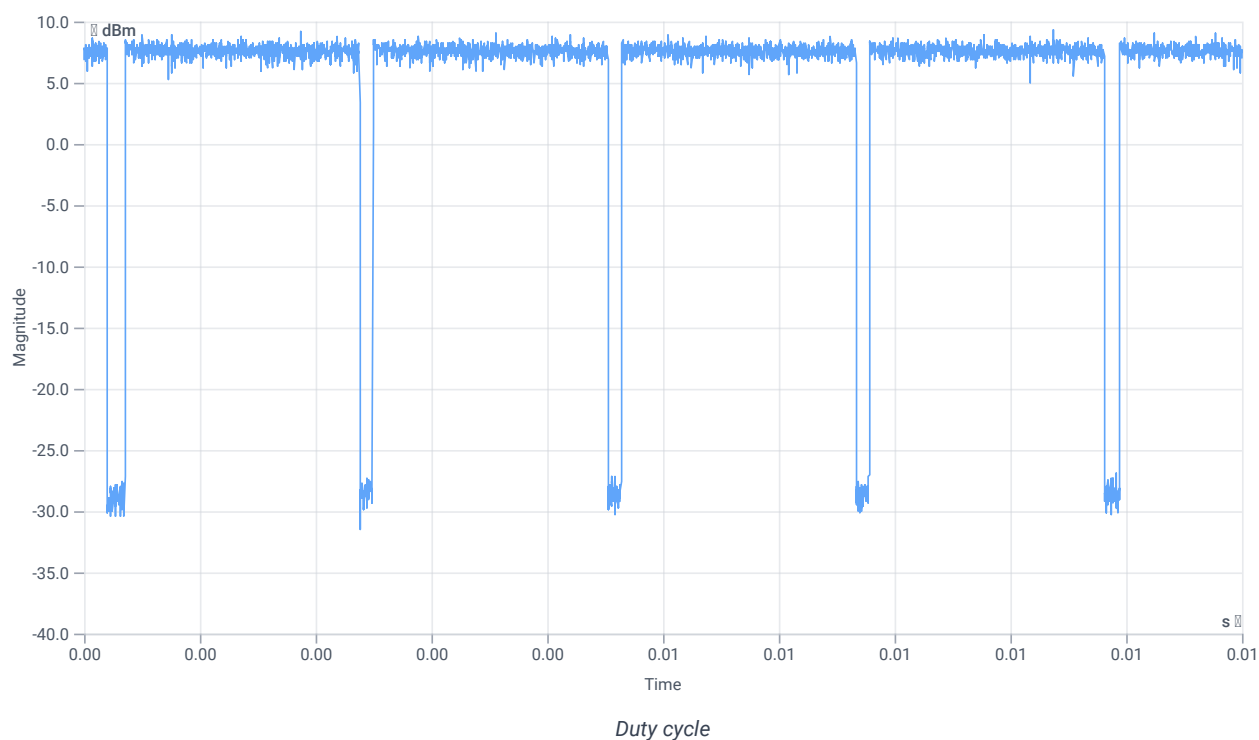
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.35     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5747.200 | MHz  | INFO    |

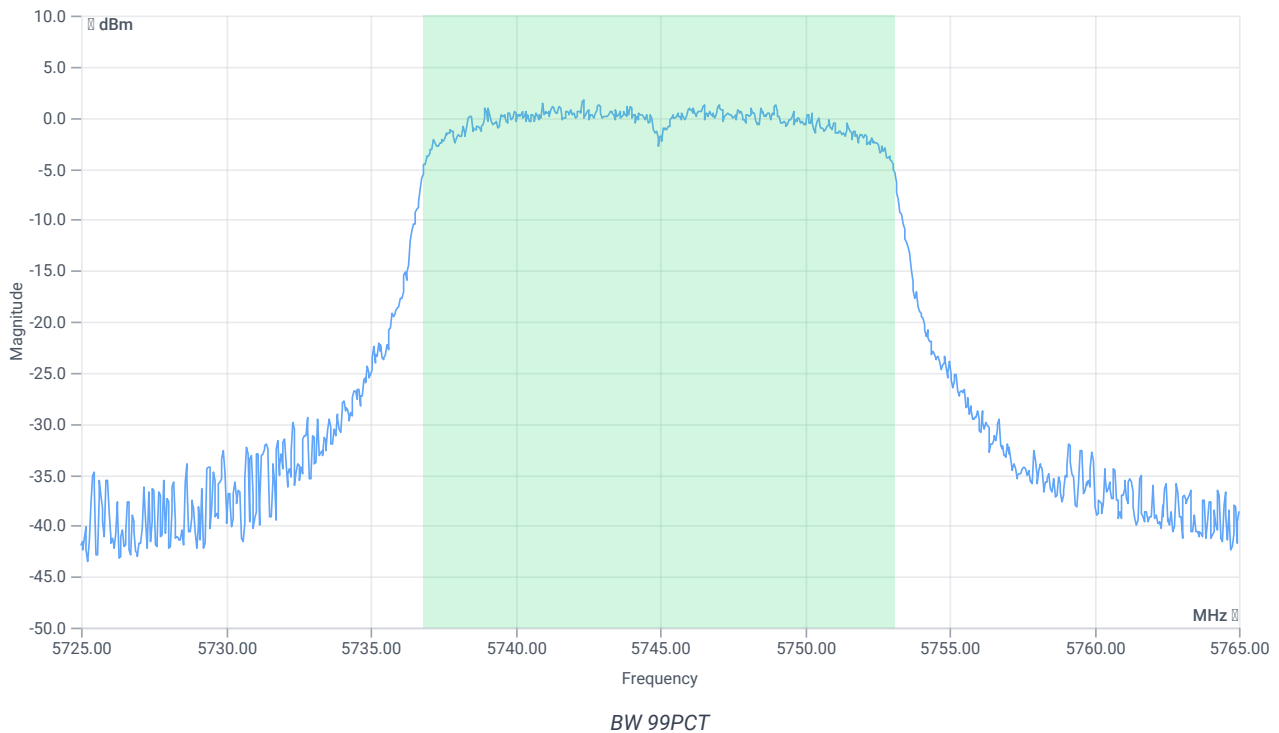
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 4    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.945    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.246    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.944    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.25     | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 2.025    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.117    | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.12     | ms   | INFO    |



## Evaluation bandwidth



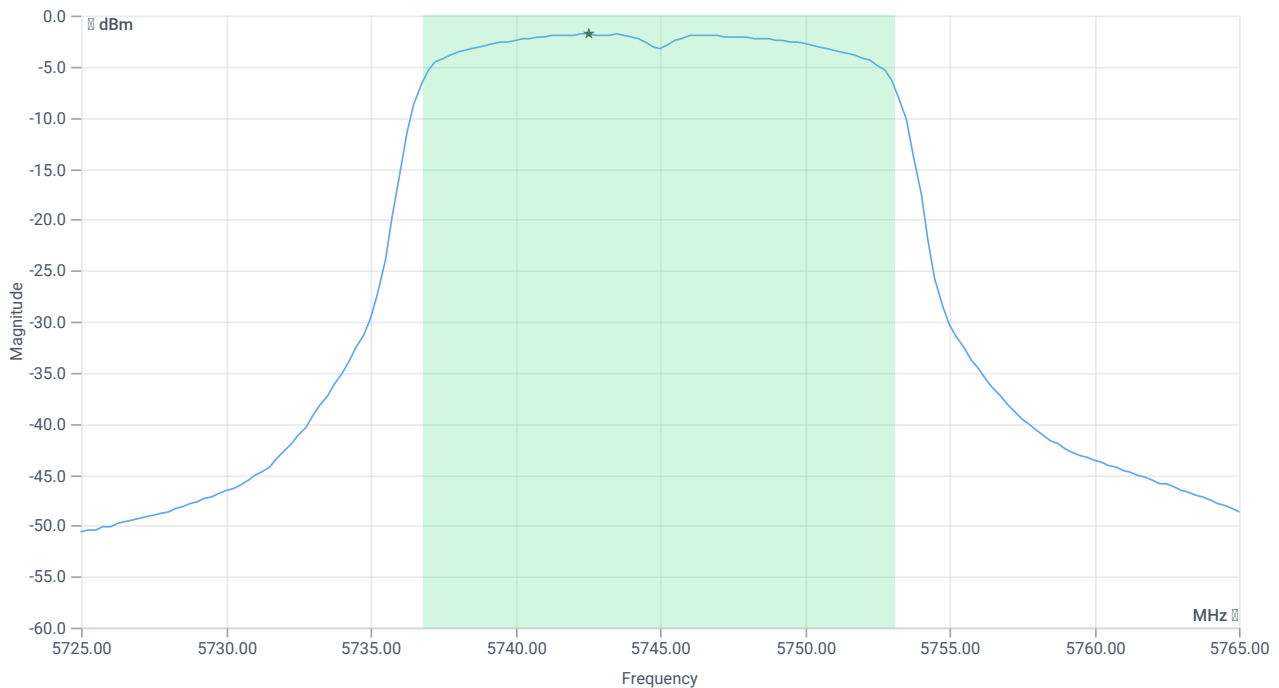
## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 16.304    | MHz  | INFO    |
| T1 99%        | ---         | ---         | 5736.8082 | MHz  | INFO    |
| T2 99%        | ---         | ---         | 5753.1119 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.35   12.81   20   |
| Start [MHz]   Stop [MHz]                             | 5725.000   5765.000  |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |

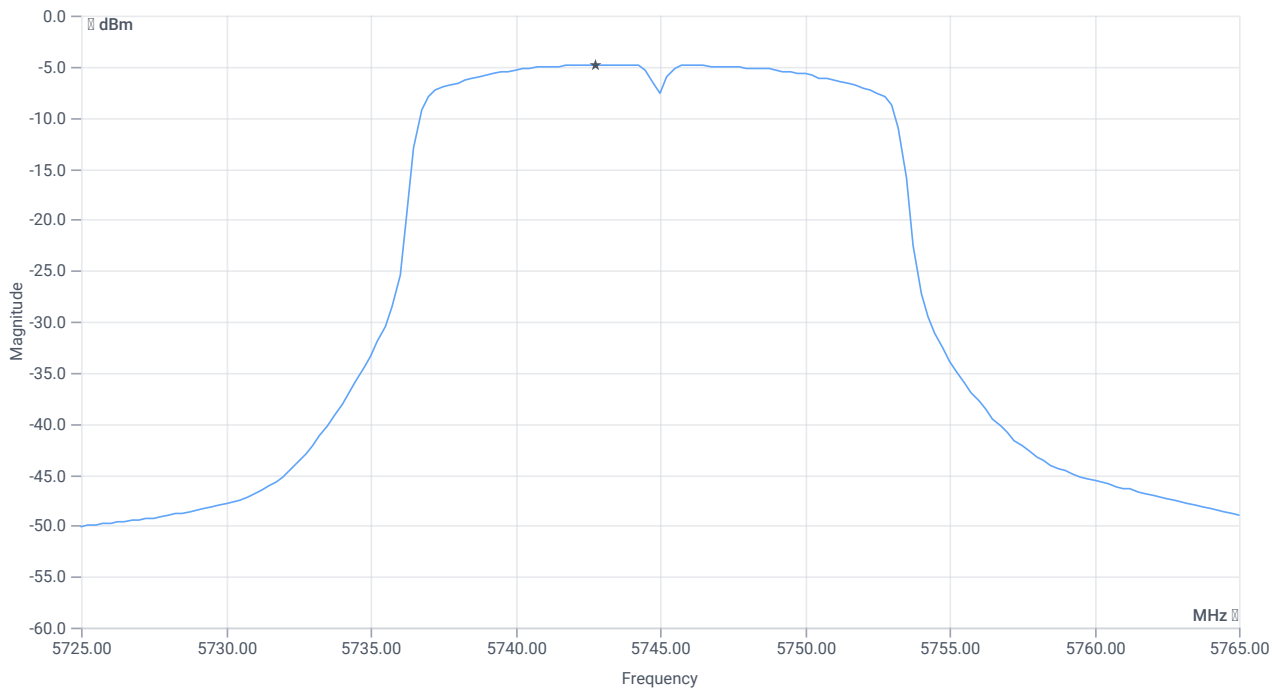


## RESULT

| DESCRIPTION                        | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 9.12     | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.25     | dB   | INFO    |
| LIMIT absolute cond                |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 9.37     | dBm  | PASS    |

## READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.35   12.81   25   |
| Start [MHz]   Stop [MHz]                             | 5725.000   5765.000  |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



## RESULT

| DESCRIPTION                              | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT       | VERDICT |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         |             | -4.79    | dBm/0.5MHz | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -4.54    | dBm/0.5MHz | PASS    |

## Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx a mode U-NII-3

### References

|                                               |                                                  |
|-----------------------------------------------|--------------------------------------------------|
| TC start                                      | 11.03.2025 09:47:35                              |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                        |
| System version                                | 5.1.6.0                                          |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                     |
| Method                                        | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN |
| Description                                   | FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-3   |
| Information                                   |                                                  |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx a mode                            |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | True   Freq [MHz] 5745                    |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

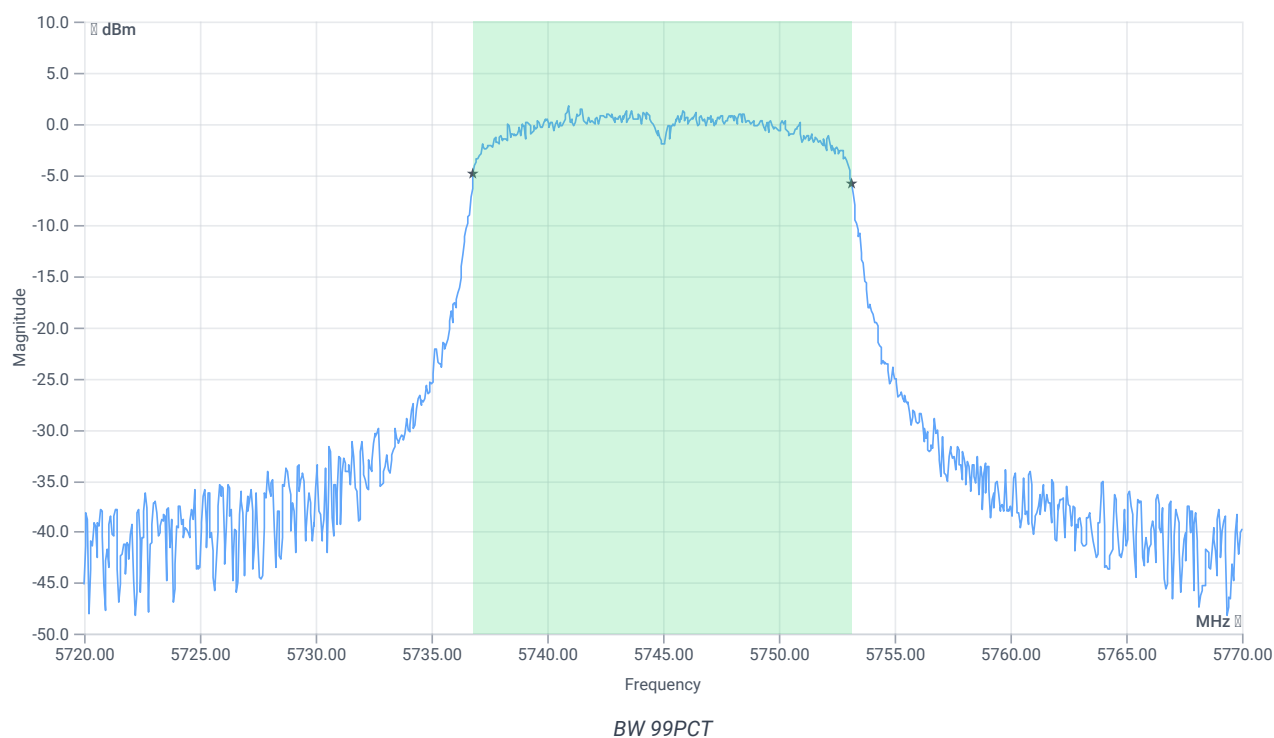
## Test at TX 5745 MHz

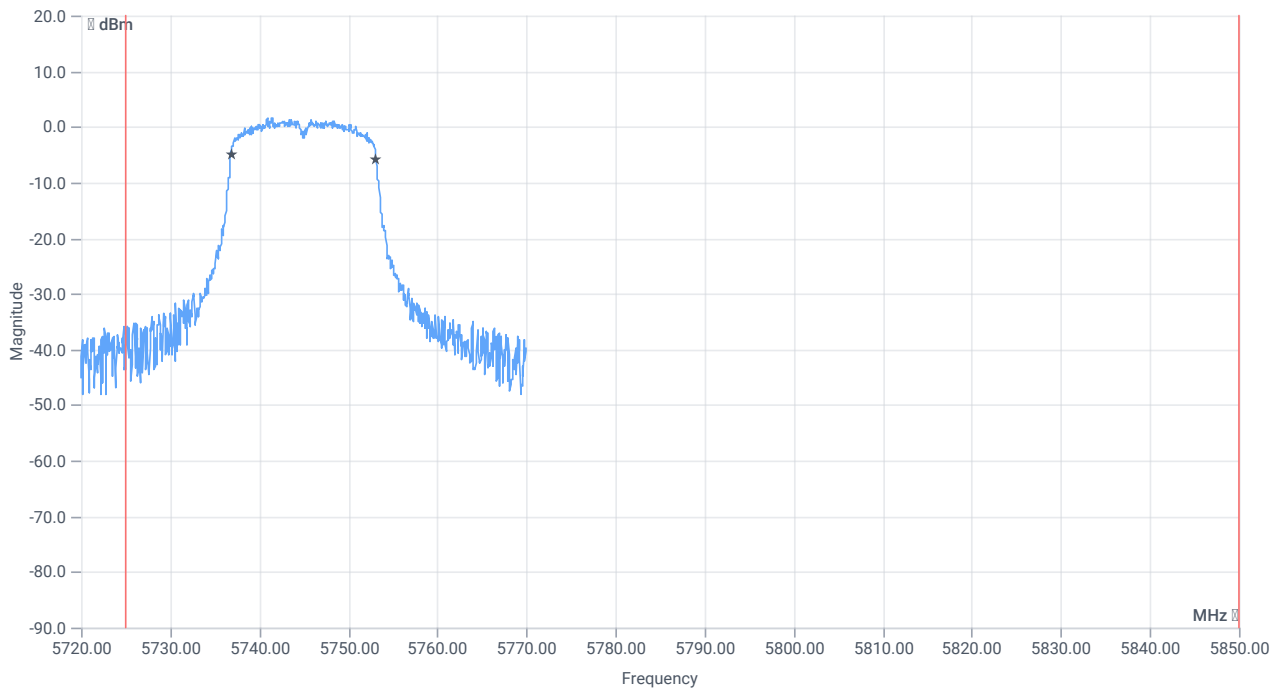
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.72     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5747.400 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 14.72   12.81   20    |
| Start [MHz]   Stop [MHz]                             | 5720.000   5770.000   |
| RBW [MHz]   VBW [MHz]                                | 0.300000   1.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

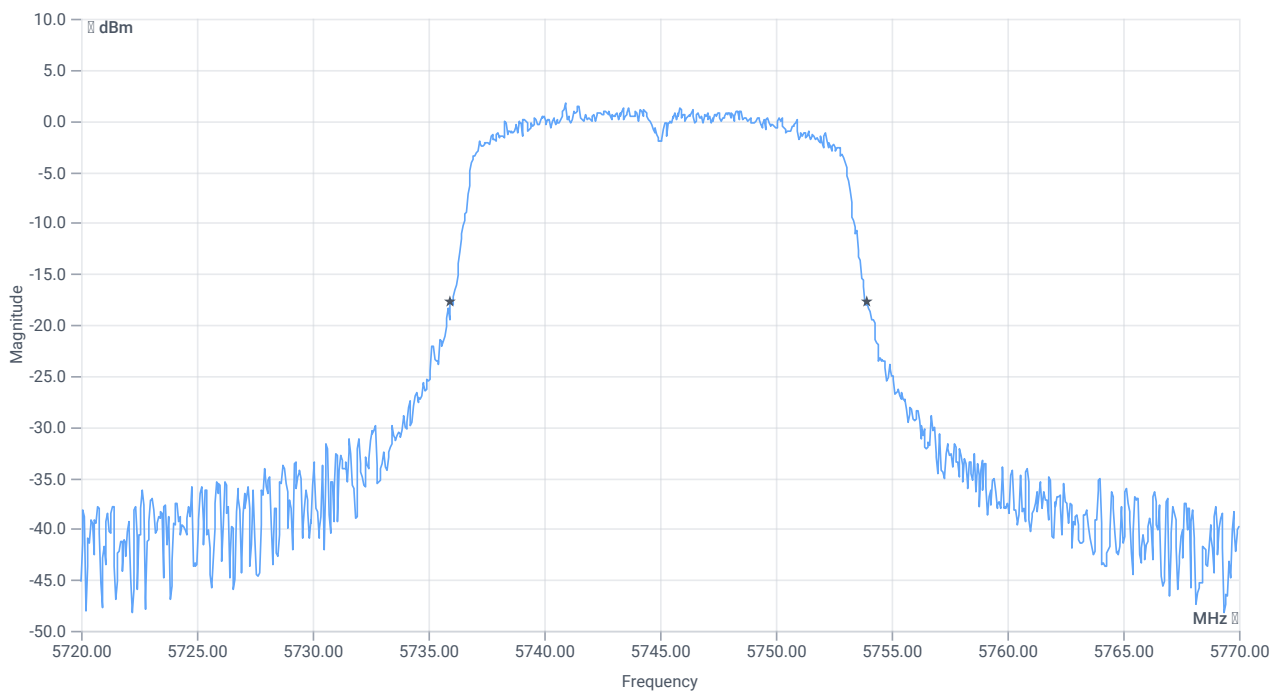




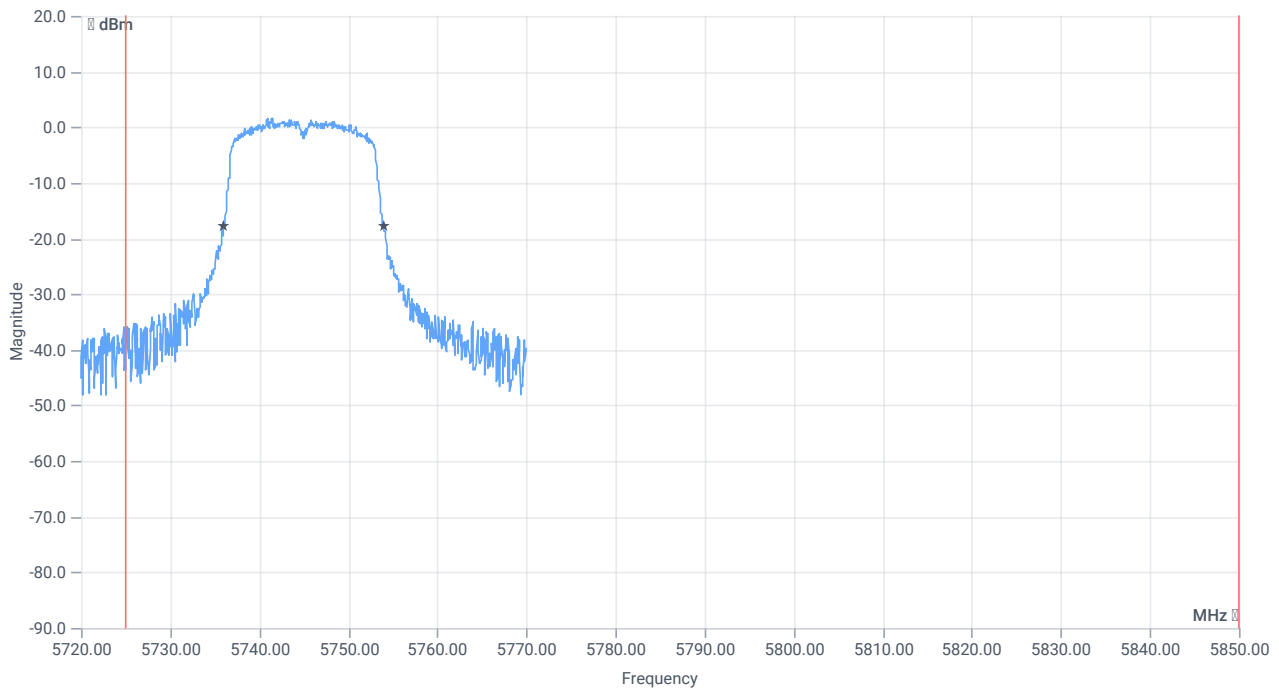
*BW within band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 16.334    | MHz  | INFO    |
| T1 99%        | 5725.000000 | ---         | 5736.8082 | MHz  | PASS    |
| T2 99%        | ---         | 5850.000000 | 5753.1419 | MHz  | PASS    |



BW 20dB



BW within band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 18        | MHz  | INFO    |
| T1 20dB        | 5725.000000 | ---         | 5735.9500 | MHz  | PASS    |
| T2 20dB        | ---         | 5850.000000 | 5753.9500 | MHz  | PASS    |

Verdict

PASS

## FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a mode U-NII-3

### References

|                                               |                                                            |
|-----------------------------------------------|------------------------------------------------------------|
| TC start                                      | 11.03.2025 09:48:10                                        |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                  |
| System version                                | 5.1.6.0                                                    |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                               |
| Method                                        | KDB789033 D02, C.2.                                        |
| Description                                   | FCC 15.407 Min Emission Bandwidth - WLAN5Gx a mode U-NII-3 |
| Information                                   |                                                            |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx a mode                            |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | True   Freq [MHz] 5745                    |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

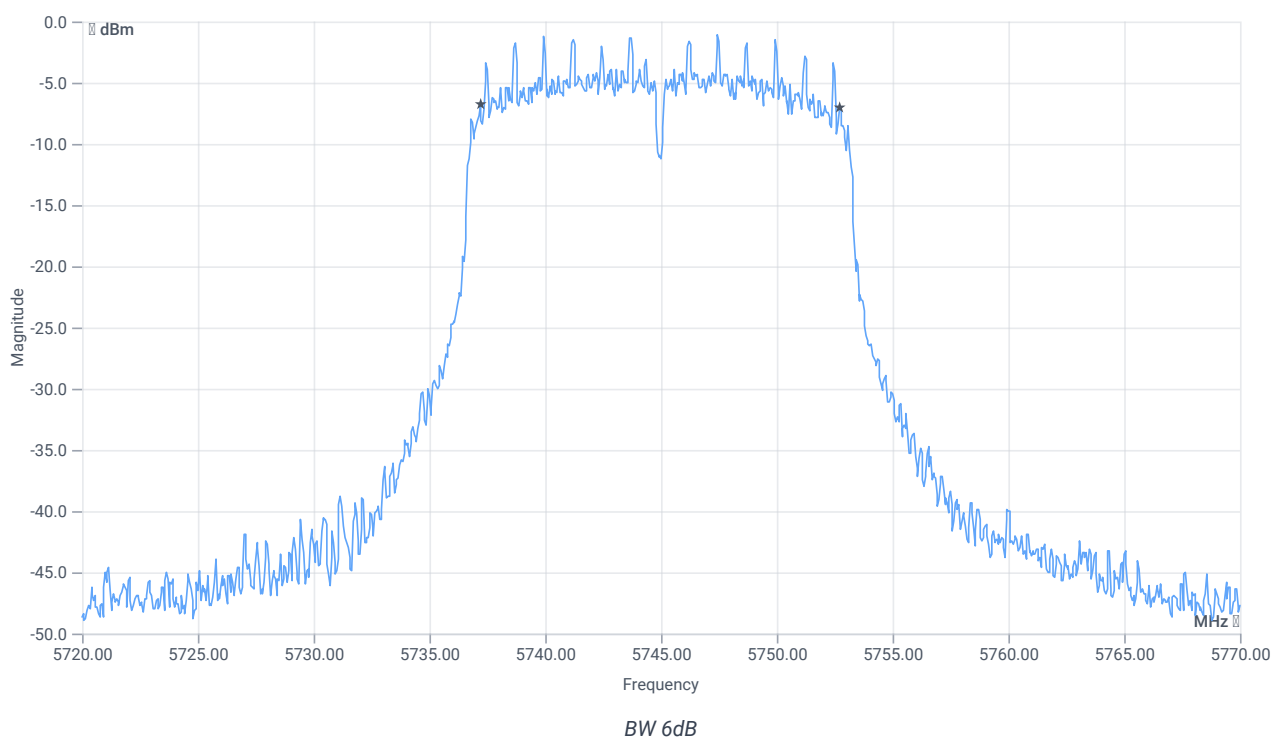
## Test at TX 5745 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.29     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5741.600 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.29   12.81   25    |
| Start [MHz]   Stop [MHz]                             | 5720.000   5770.000   |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 2   1500   1001   SWE |



### RESULT

| DESCRIPTION     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------|-------------|-------------|----------|------|---------|
| Bandwidth (6dB) | 0.500       | ---         | 15.5     | MHz  | PASS    |

#### Verdict

PASS

## FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx a mode U-NII-3

### References

|                                               |                                                   |
|-----------------------------------------------|---------------------------------------------------|
| TC start                                      | 11.03.2025 09:48:57                               |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                         |
| System version                                | 5.1.6.0                                           |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                      |
| Method                                        | NI                                                |
| Description                                   | FCC 15.407 Emission mask - WLAN5Gx a mode U-NII-3 |
| Information                                   |                                                   |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx a mode                            |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | True   Freq [MHz] 5745                    |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5745 MHz

Number of antenna ports: 1

reduction of limit due to number of antenna ports [dB]: 0

RESULT: Reference power cond.

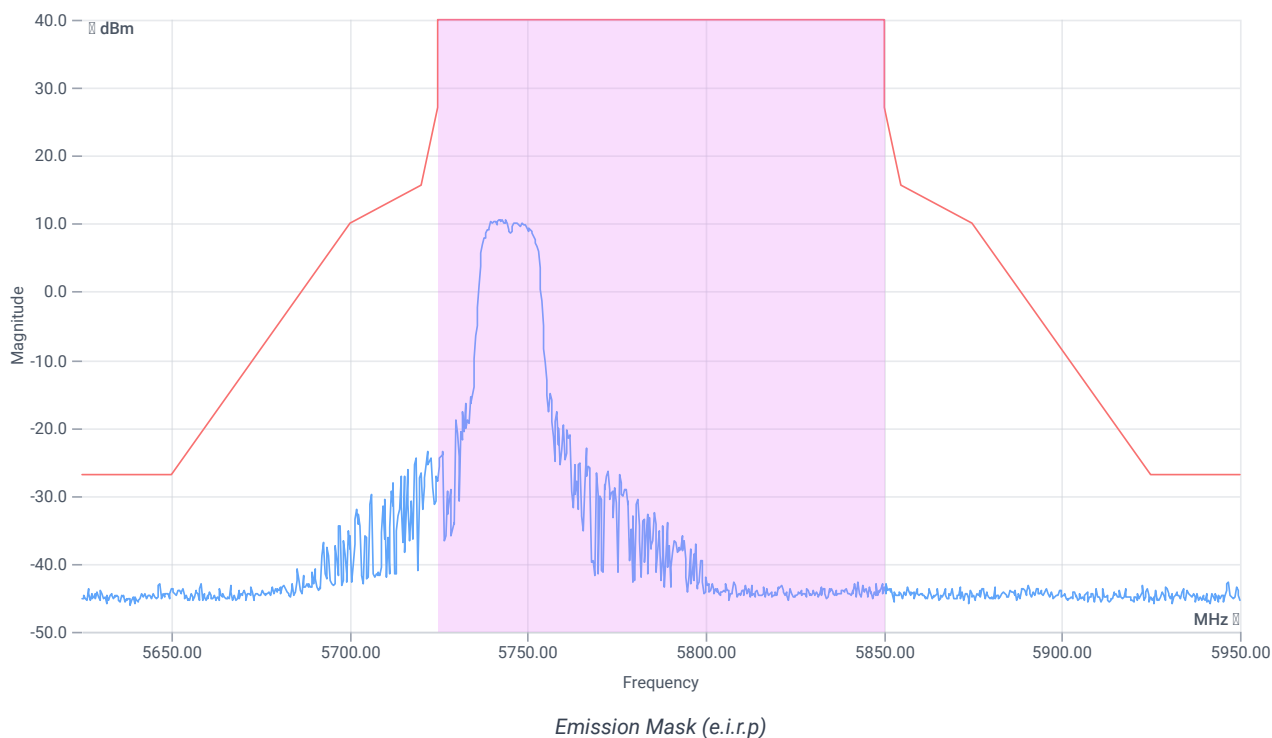
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.15     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5743.000 | MHz  | INFO    |

## Antenna gain

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Considered antenna gain [dBi]: | 3.4 / max found in range 5625 to 5950 MHz |
|--------------------------------|-------------------------------------------|

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 9.15   12.81   15     |
| Start [MHz]   Stop [MHz]                             | 5625.000   5950.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |



## RESULT

| DESCRIPTION                                                           | LOWER LIMIT | UPPER LIMIT | MEASURED                                                               | UNIT | VERDICT |
|-----------------------------------------------------------------------|-------------|-------------|------------------------------------------------------------------------|------|---------|
| cetecom advanced GmbH<br>Untertürkheimer Str. 6-10, 66117 Saarbrücken |             |             | Document No. 1-8801-24-01-18_TR1-A201-R1<br>Release 1 - Page 22 of 175 |      |         |

Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

### References

|                                               |                                                            |
|-----------------------------------------------|------------------------------------------------------------|
| TC start                                      | 11.03.2025 09:51:44                                        |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                  |
| System version                                | 5.1.6.0                                                    |
| Standard   Version                            | FCC 15.407   NI                                            |
| Method                                        | KDB789033 D02, F., E.2.e.                                  |
| Description                                   | FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3 |
| Information                                   |                                                            |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx a mode                            |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | True   Freq [MHz] 5785                    |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5785 MHz

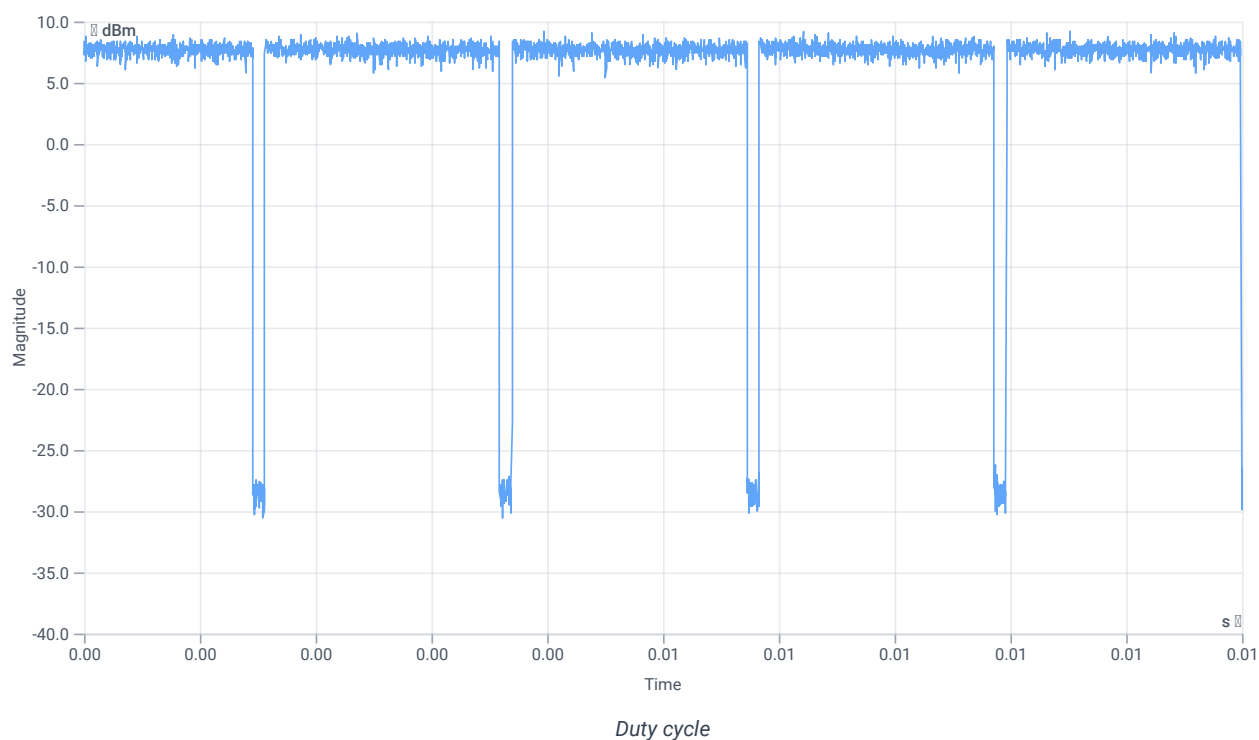
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.06     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5779.810 | MHz  | INFO    |

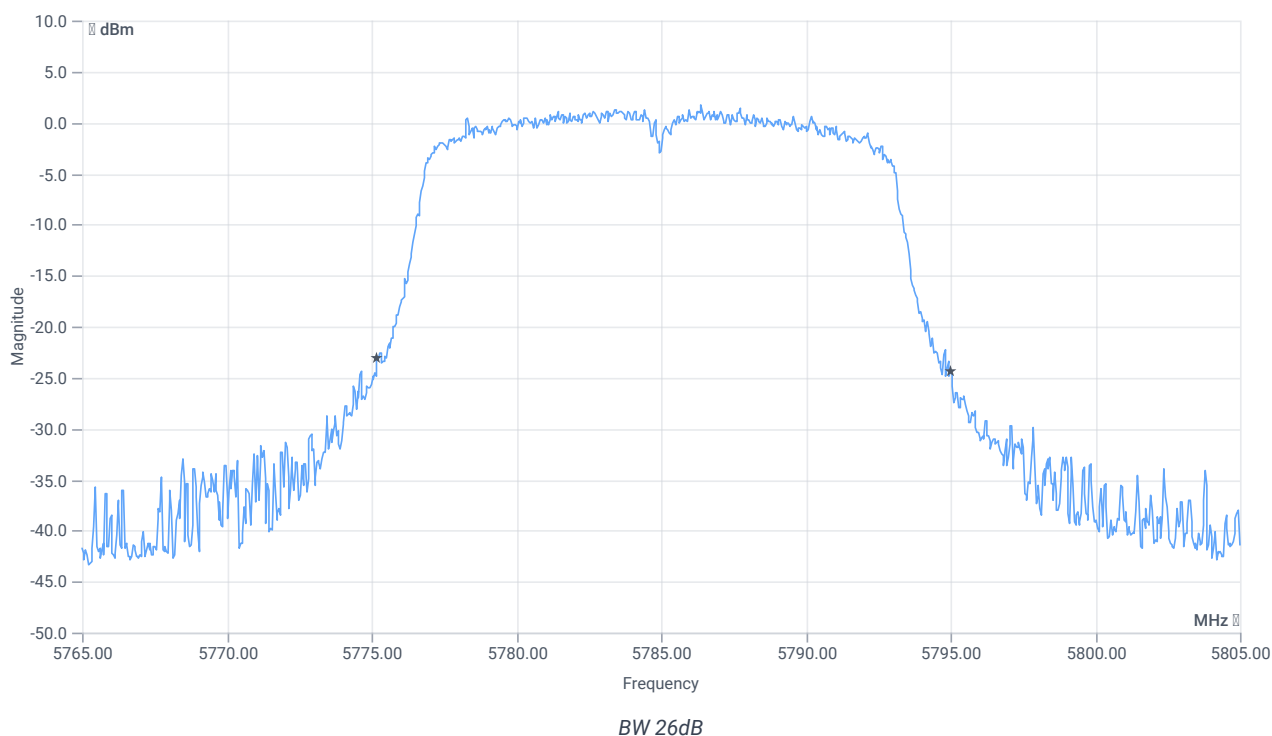
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 3    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.95     | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.223    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.948    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.232    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 2.025    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.107    | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.11     | ms   | INFO    |



## Evaluation bandwidth



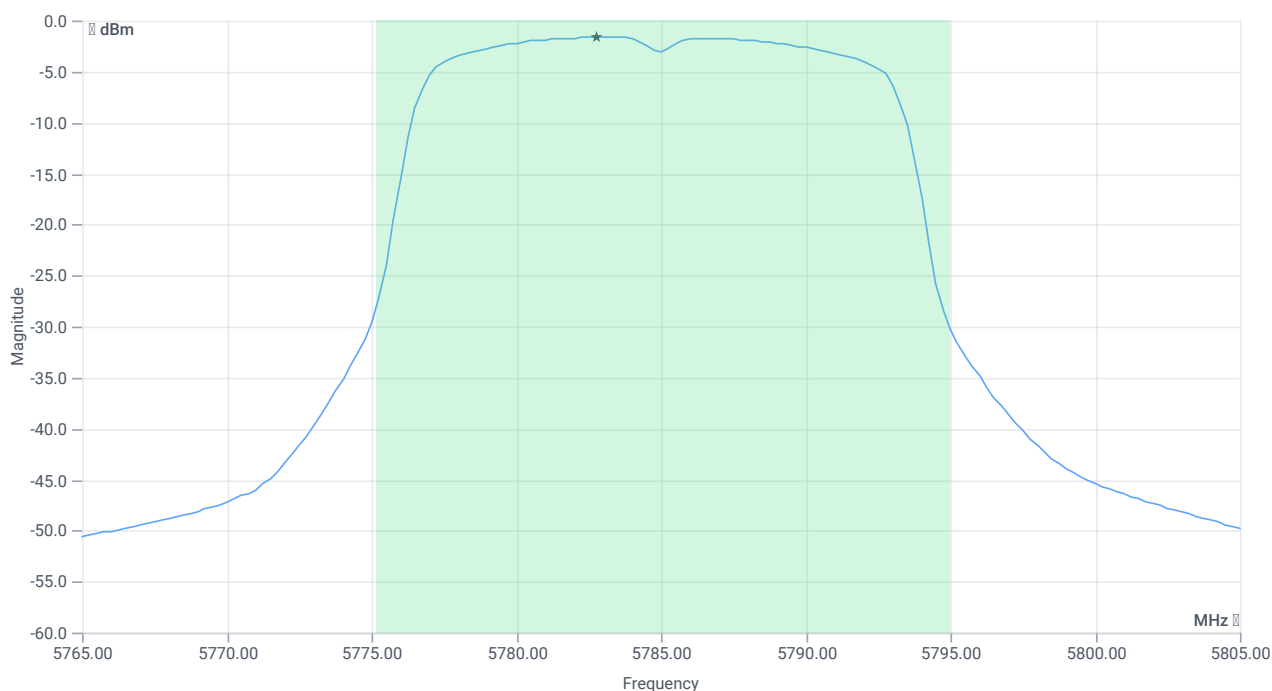
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 19.8      | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5775.2000 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5795.0000 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.06   12.84   20   |
| Start [MHz]   Stop [MHz]                             | 5765.000   5805.000  |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



Max OP and PSD

## RESULT

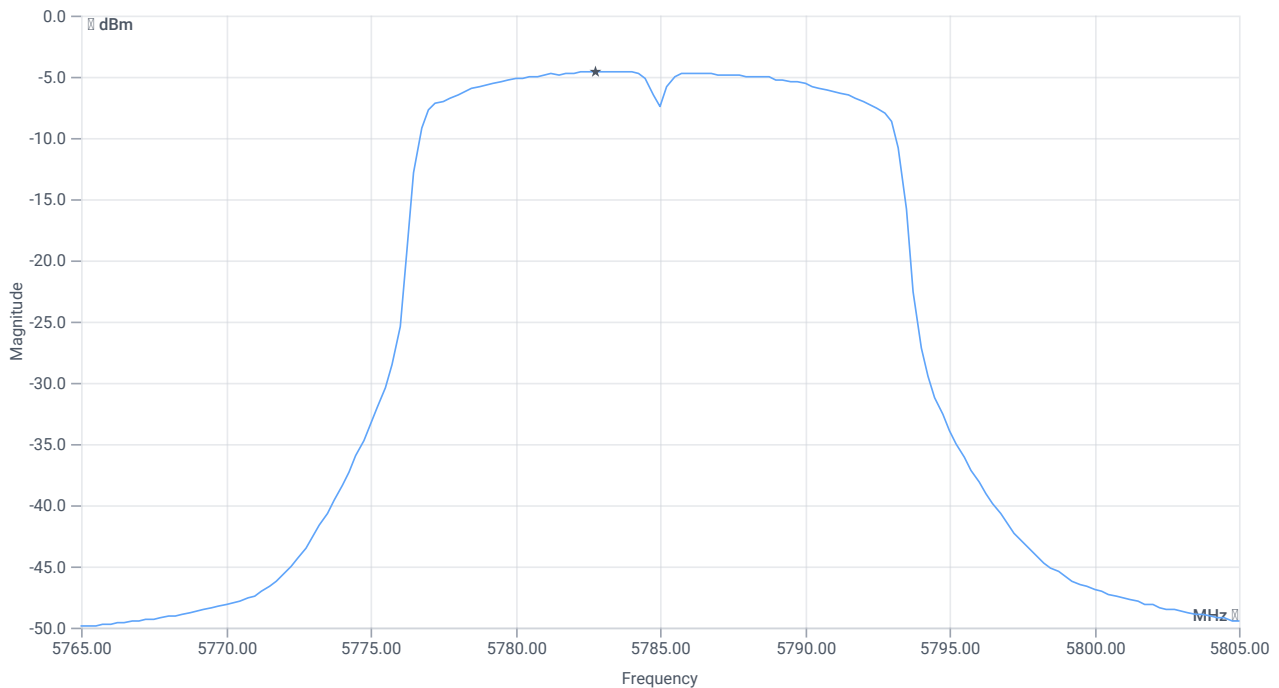
### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                        | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 9.39     | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.23     | dB   | INFO    |
| LIMIT absolute:                    |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 9.62     | dBm  | PASS    |
| LIMIT: 11 dBm + 10 log 19.8        |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 23.97       | 9.62     | dBm  | na      |

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.06   12.84   25   |
| Start [MHz]   Stop [MHz]                             | 5765.000   5805.000  |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



## RESULT

### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                              | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         | ---         | -4.59    | dBm/0.5MHz | INFO    |
| Duty cycle correction                    | ---         | ---         | 0.23     | dB         | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -4.36    | dBm/0.5MHz | PASS    |

### Verdict

PASS

# ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

## References

|                                               |                                                      |
|-----------------------------------------------|------------------------------------------------------|
| TC start                                      | 11.03.2025 09:52:32                                  |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                            |
| System version                                | 5.1.6.0                                              |
| Standard   Version                            | ISED RSS247   NI                                     |
| Method                                        |                                                      |
| Description                                   | ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-3 |
| Information                                   |                                                      |

## EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

## Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

## Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx a mode                            |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | True   Freq [MHz] 5785                    |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5785 MHz

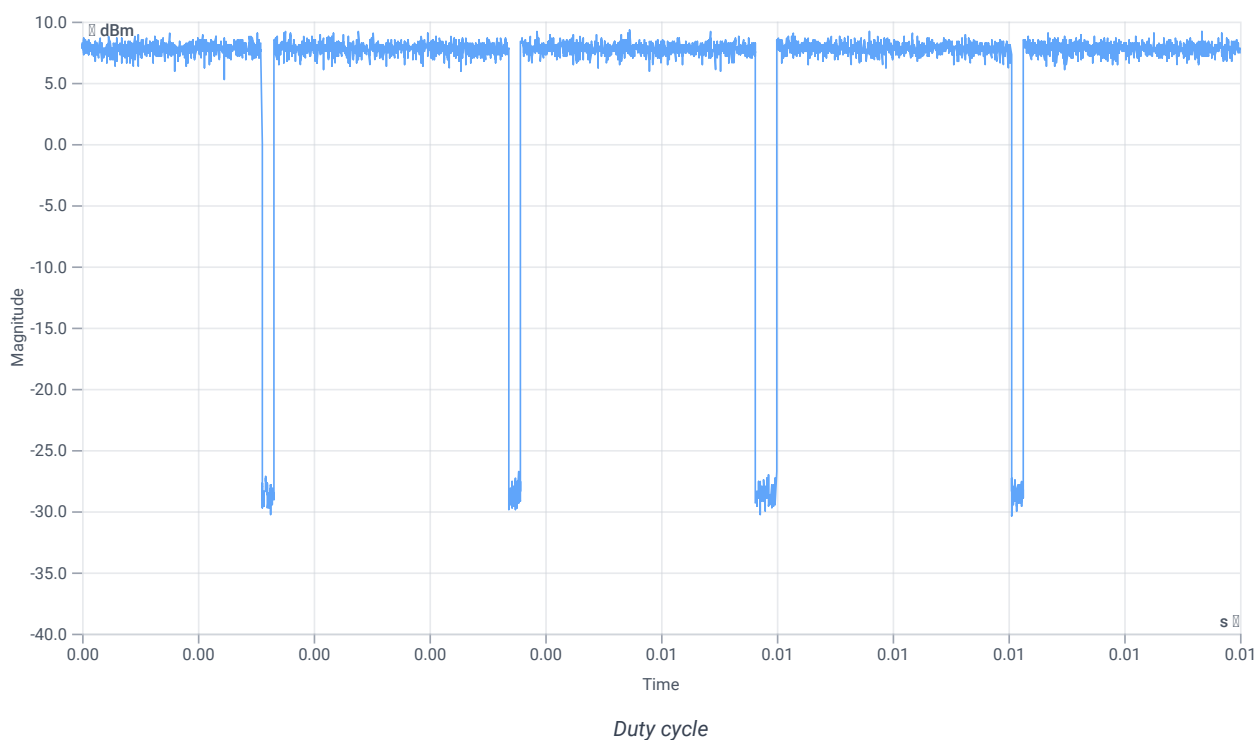
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.81     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5786.600 | MHz  | INFO    |

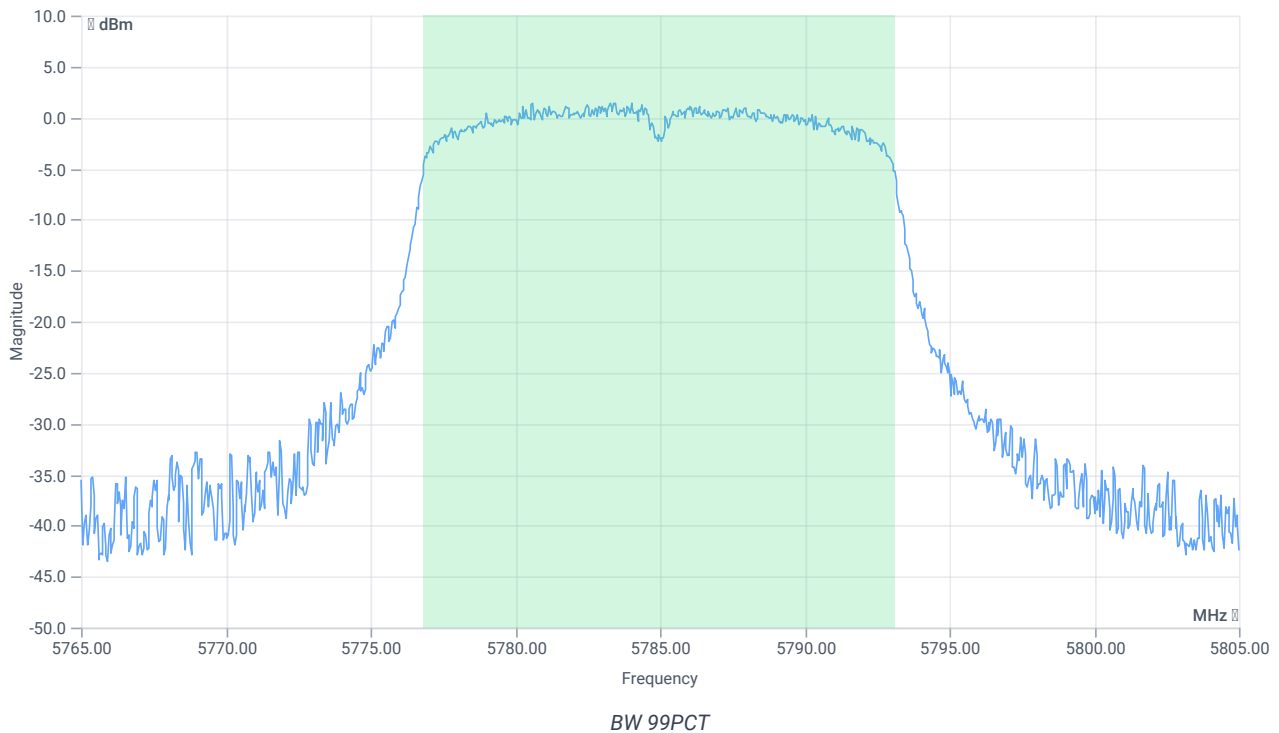
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 3    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.948    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.232    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.917    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.376    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 2.025    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.11     | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.182    | ms   | INFO    |



## Evaluation bandwidth



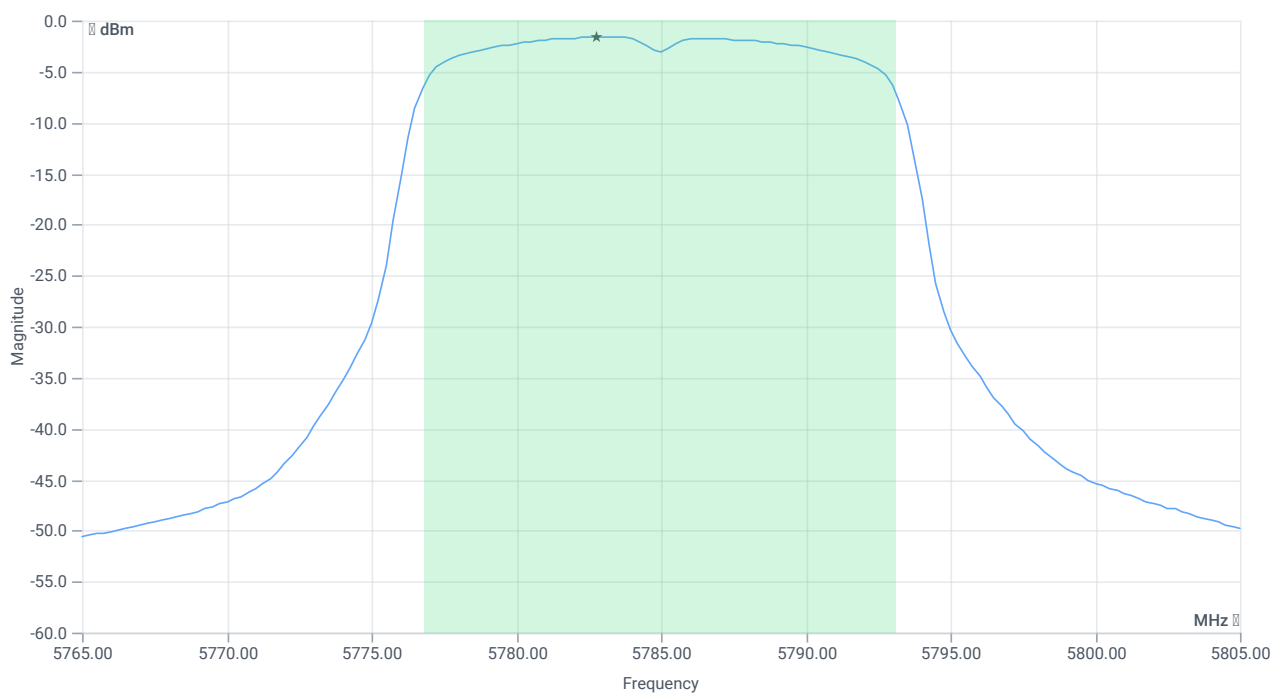
## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 16.304    | MHz  | INFO    |
| T1 99%        | ---         | ---         | 5776.8082 | MHz  | INFO    |
| T2 99%        | ---         | ---         | 5793.1119 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.81   12.84   20   |
| Start [MHz]   Stop [MHz]                             | 5765.000   5805.000  |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |

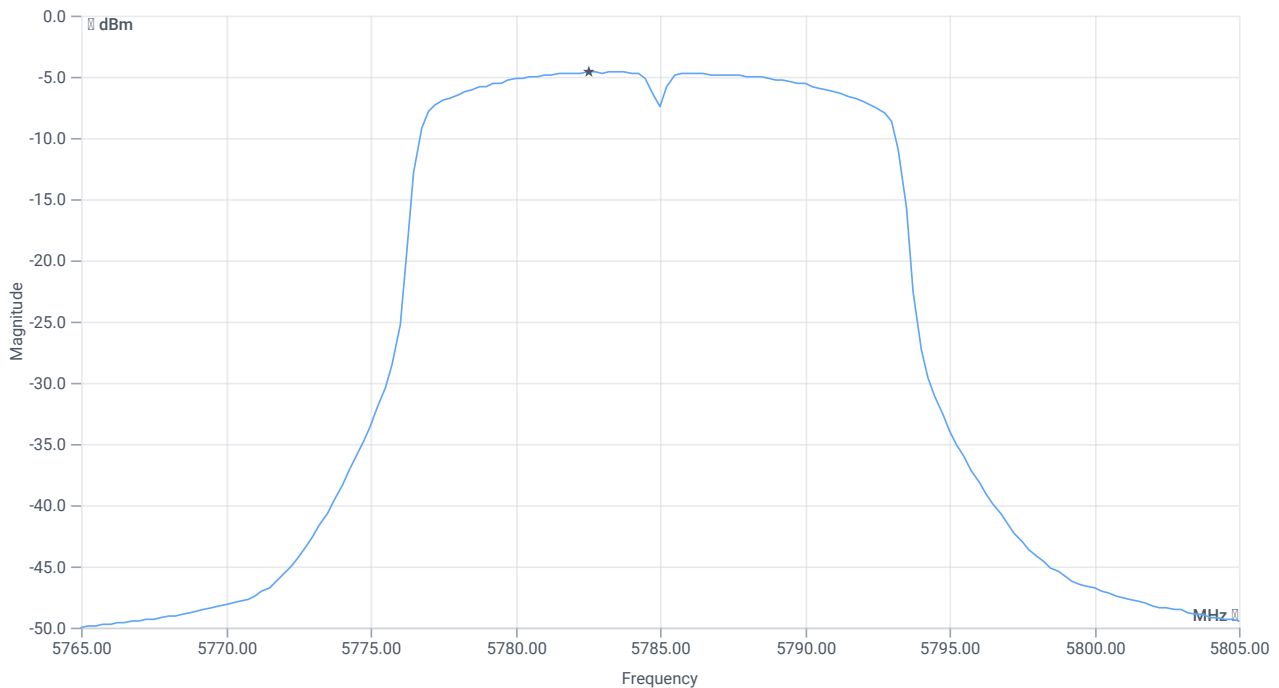


## RESULT

| DESCRIPTION                        | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 9.3      | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.38     | dB   | INFO    |
| LIMIT absolute cond                |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 9.68     | dBm  | PASS    |

## READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.81   12.84   25   |
| Start [MHz]   Stop [MHz]                             | 5765.000   5805.000  |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



## RESULT

| DESCRIPTION                              | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT       | VERDICT |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         |             | -4.63    | dBm/0.5MHz | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -4.25    | dBm/0.5MHz | PASS    |

Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx a mode U-NII-3

### References

|                                               |                                                  |
|-----------------------------------------------|--------------------------------------------------|
| TC start                                      | 11.03.2025 09:53:21                              |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                        |
| System version                                | 5.1.6.0                                          |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                     |
| Method                                        | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN |
| Description                                   | FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-3   |
| Information                                   |                                                  |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx a mode                            |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | True   Freq [MHz] 5785                    |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

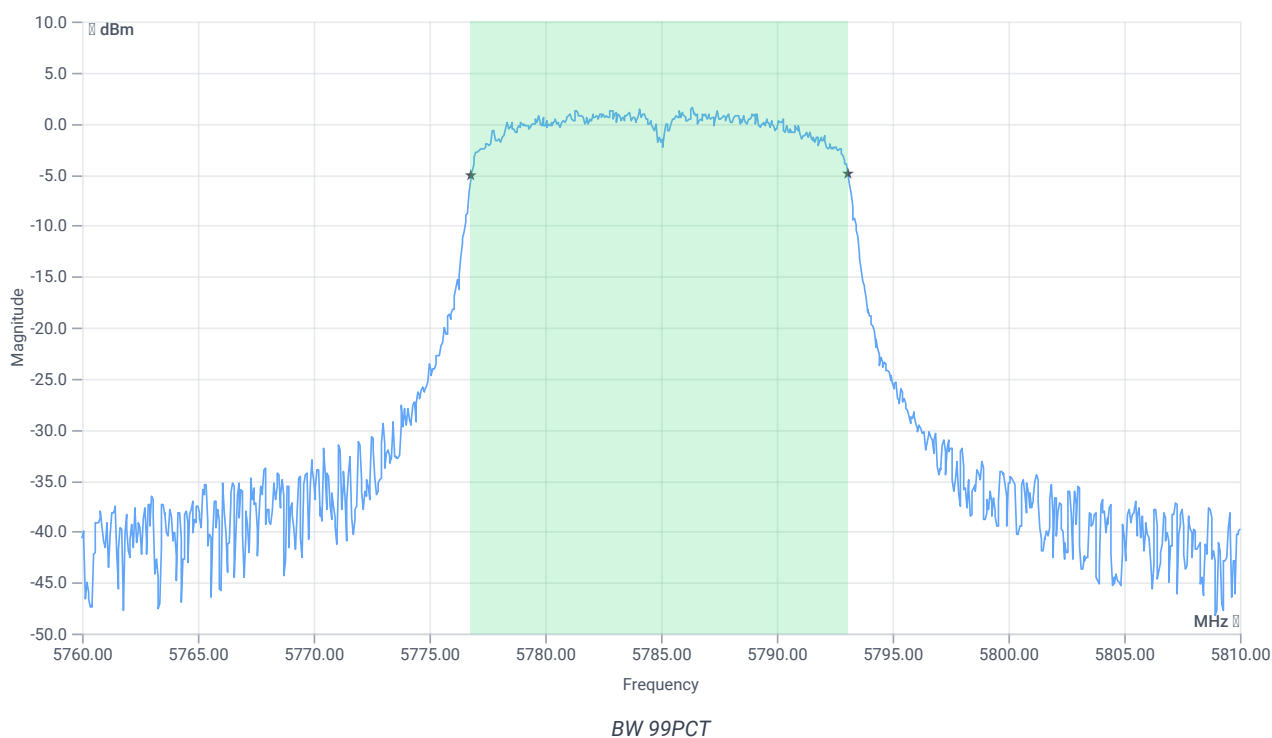
## Test at TX 5785 MHz

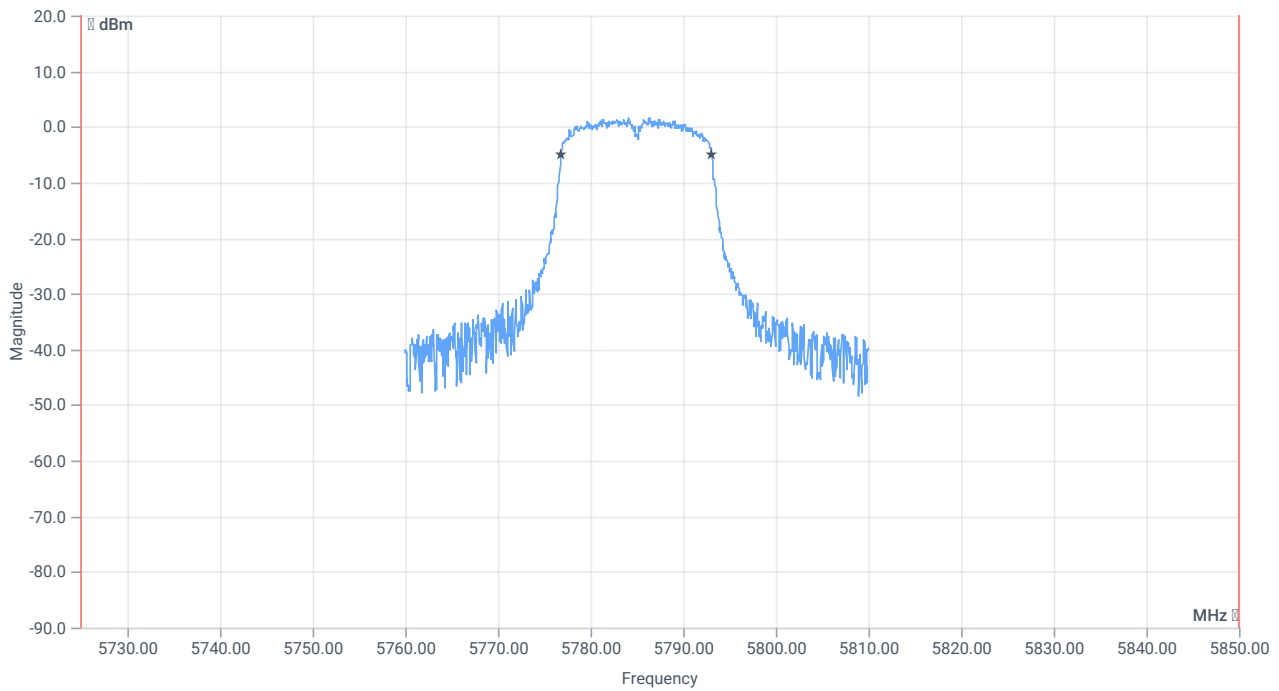
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.87     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5782.600 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 14.87   12.84   20    |
| Start [MHz]   Stop [MHz]                             | 5760.000   5810.000   |
| RBW [MHz]   VBW [MHz]                                | 0.300000   1.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

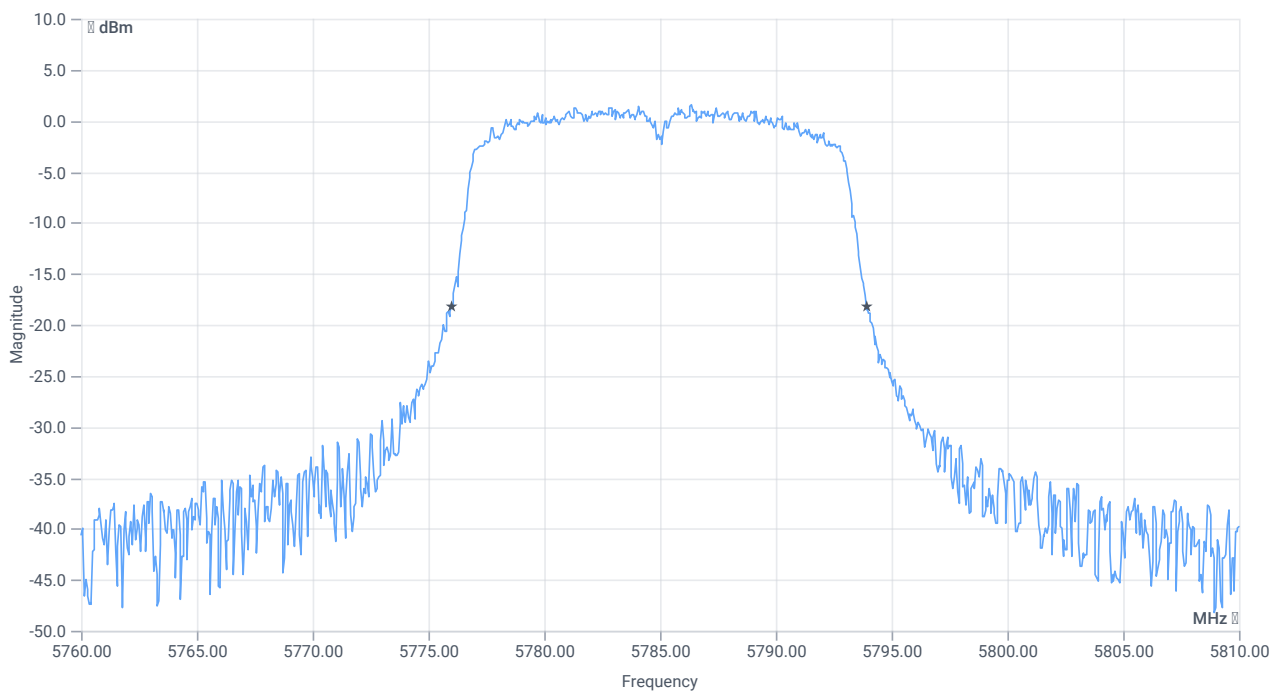




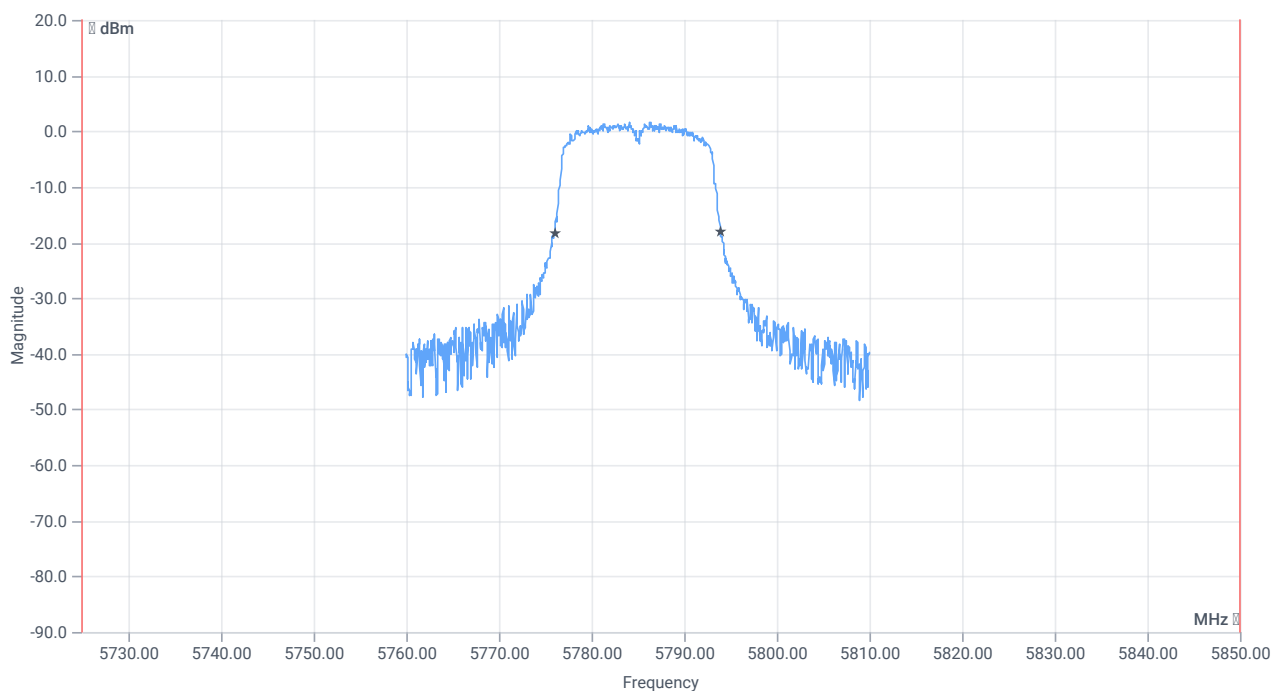
*BW within band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 16.284    | MHz  | INFO    |
| T1 99%        | 5725.000000 | ---         | 5776.8082 | MHz  | PASS    |
| T2 99%        | ---         | 5850.000000 | 5793.0919 | MHz  | PASS    |



BW 20dB



BW within band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 17.95     | MHz  | INFO    |
| T1 20dB        | 5725.000000 | ---         | 5776.0000 | MHz  | PASS    |
| T2 20dB        | ---         | 5850.000000 | 5793.9500 | MHz  | PASS    |

Verdict

PASS

## FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a mode U-NII-3

### References

|                                               |                                                            |
|-----------------------------------------------|------------------------------------------------------------|
| TC start                                      | 11.03.2025 09:53:55                                        |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                  |
| System version                                | 5.1.6.0                                                    |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                               |
| Method                                        | KDB789033 D02, C.2.                                        |
| Description                                   | FCC 15.407 Min Emission Bandwidth - WLAN5Gx a mode U-NII-3 |
| Information                                   |                                                            |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx a mode                            |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | True   Freq [MHz] 5785                    |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

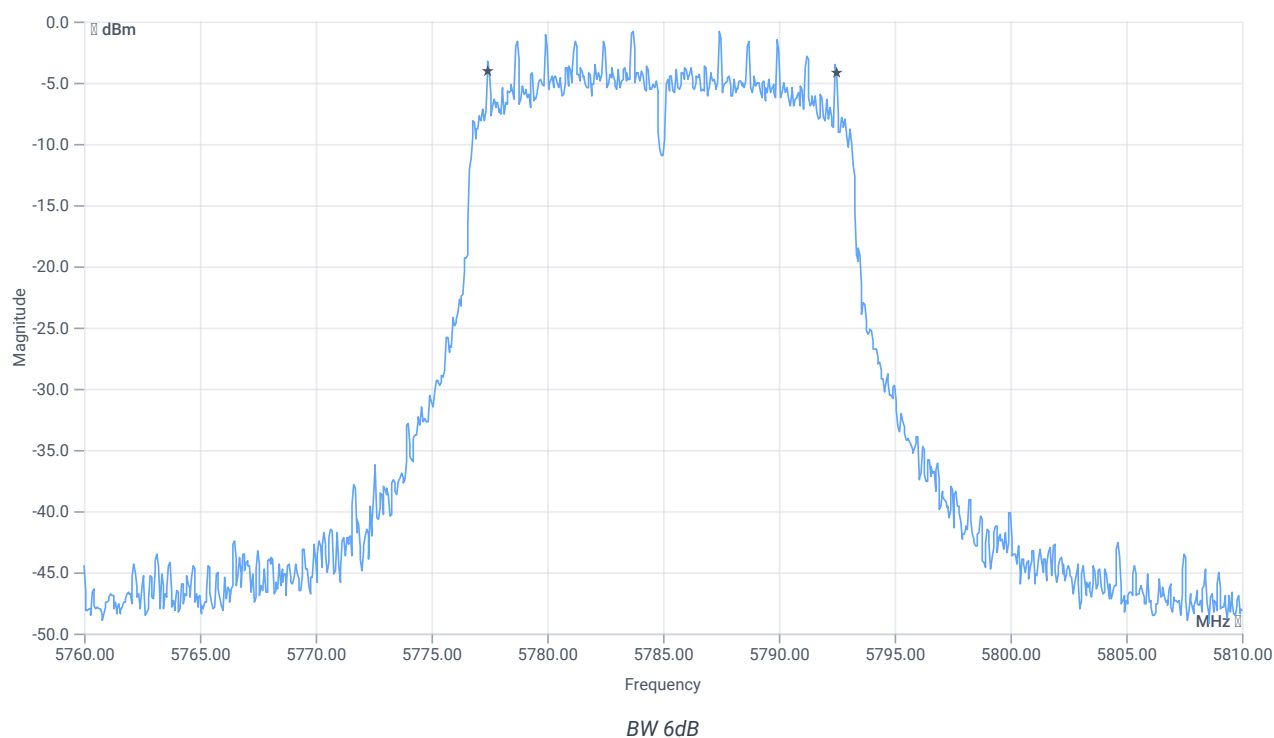
## Test at TX 5785 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.69     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5783.800 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.69   12.84   25    |
| Start [MHz]   Stop [MHz]                             | 5760.000   5810.000   |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 2   1500   1001   SWE |



### RESULT

| DESCRIPTION     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------|-------------|-------------|----------|------|---------|
| Bandwidth (6dB) | 0.500       | ---         | 15.1     | MHz  | PASS    |

#### Verdict

PASS

## FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx a mode U-NII-3

### References

|                                               |                                                   |
|-----------------------------------------------|---------------------------------------------------|
| TC start                                      | 11.03.2025 09:54:45                               |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                         |
| System version                                | 5.1.6.0                                           |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                      |
| Method                                        | NI                                                |
| Description                                   | FCC 15.407 Emission mask - WLAN5Gx a mode U-NII-3 |
| Information                                   |                                                   |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx a mode                            |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | True   Freq [MHz] 5785                    |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5785 MHz

Number of antenna ports: 1

reduction of limit due to number of antenna ports [dB]: 0

RESULT: Reference power cond.

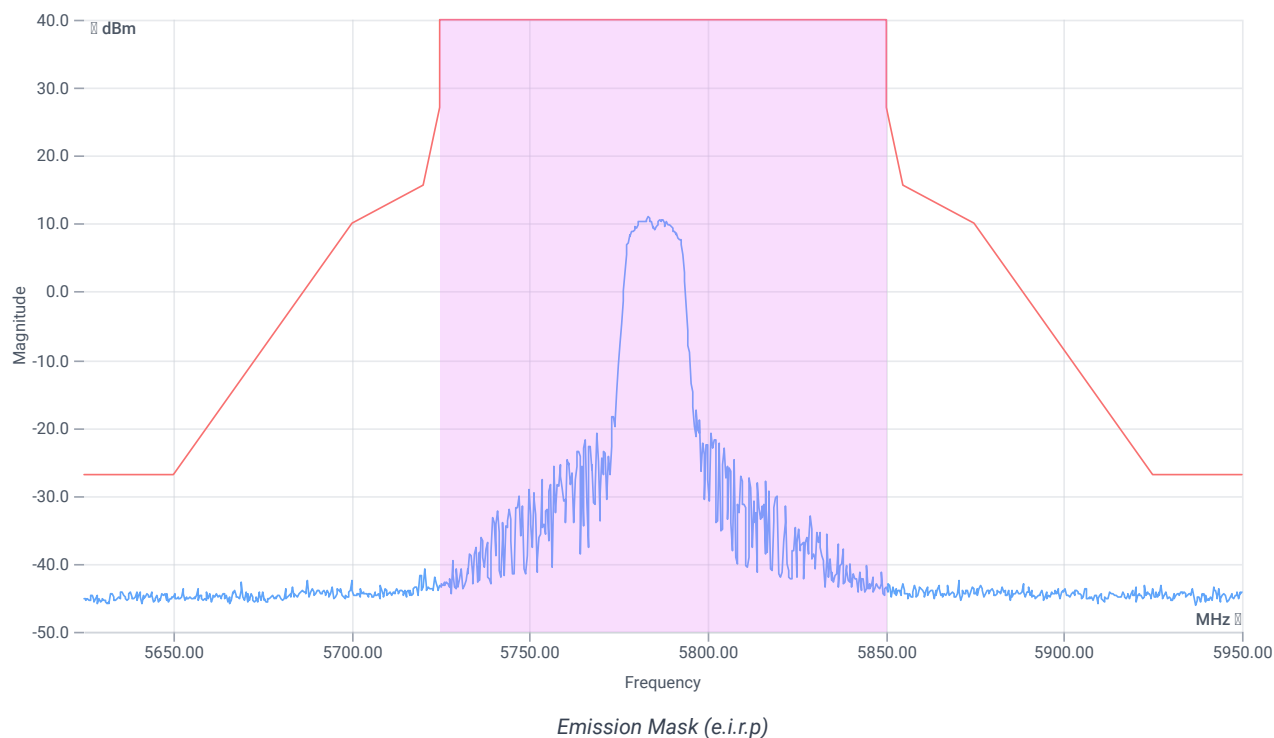
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.34     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5783.400 | MHz  | INFO    |

## Antenna gain

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Considered antenna gain [dBi]: | 3.4 / max found in range 5625 to 5950 MHz |
|--------------------------------|-------------------------------------------|

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 9.34   12.84   15     |
| Start [MHz]   Stop [MHz]                             | 5625.000   5950.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |



## RESULT

| DESCRIPTION                                                           | LOWER LIMIT | UPPER LIMIT | MEASURED                                                               | UNIT | VERDICT |
|-----------------------------------------------------------------------|-------------|-------------|------------------------------------------------------------------------|------|---------|
| cetecom advanced GmbH<br>Untertürkheimer Str. 6-10, 66117 Saarbrücken |             |             | Document No. 1-8801-24-01-18_TR1-A201-R1<br>Release 1 - Page 41 of 175 |      |         |

Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

### References

|                                               |                                                            |
|-----------------------------------------------|------------------------------------------------------------|
| TC start                                      | 11.03.2025 09:57:45                                        |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                  |
| System version                                | 5.1.6.0                                                    |
| Standard   Version                            | FCC 15.407   NI                                            |
| Method                                        | KDB789033 D02, F., E.2.e.                                  |
| Description                                   | FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3 |
| Information                                   |                                                            |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx a mode                            |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | True   Freq [MHz] 5825                    |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5825 MHz

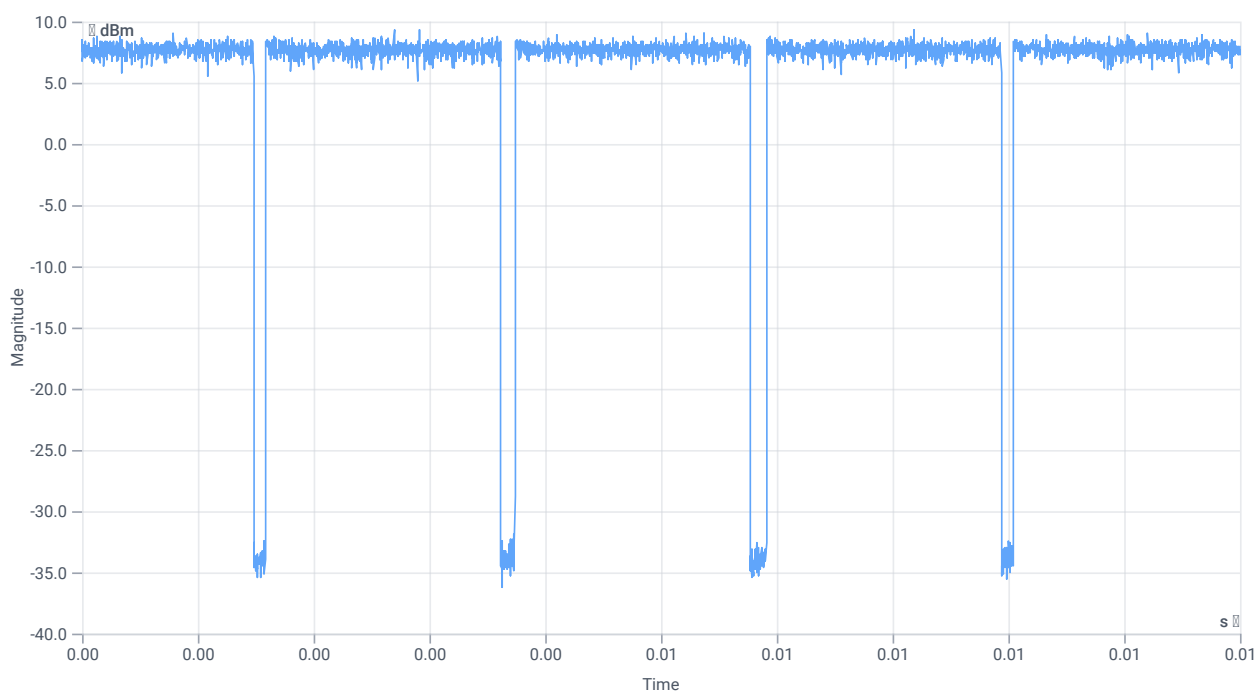
RESULT: Reference power cond.

| DESCRIPTION                | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | ---         | ---         | 6.21     | dBm  | INFO    |
| Ref. frequency             | ---         | ---         | 5822.600 | MHz  | INFO    |

## Evaluation max. duty cycle

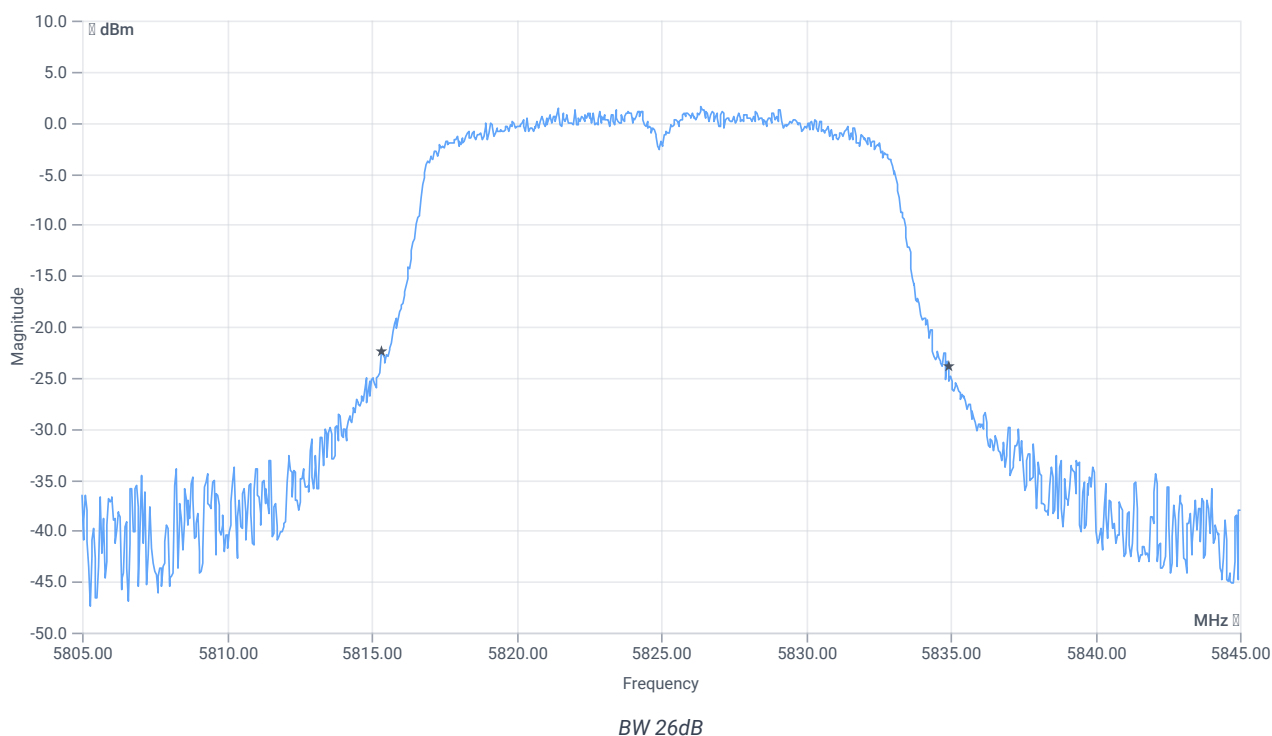
### DUTY CYCLE EVALUATION

| DESCRIPTION                  | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result summary               |             |             |          |      |         |
| Number of detected bursts: 3 |             |             |          |      |         |
| Duty cycle (burst Ratio) max | ---         | ---         | 0.941    | ---  | INFO    |
| Duty cycle max               | ---         | ---         | 0.264    | dB   | INFO    |
| Duty cycle (burst Ratio) min | ---         | ---         | 0.933    | ---  | INFO    |
| Duty cycle min               | ---         | ---         | 0.301    | dB   | INFO    |
| Max TX burst length          | ---         | ---         | 2.025    | ms   | INFO    |
| Min gap length               | ---         | ---         | 0.128    | ms   | INFO    |
| Max gap length               | ---         | ---         | 0.145    | ms   | INFO    |



Duty cycle

## Evaluation bandwidth



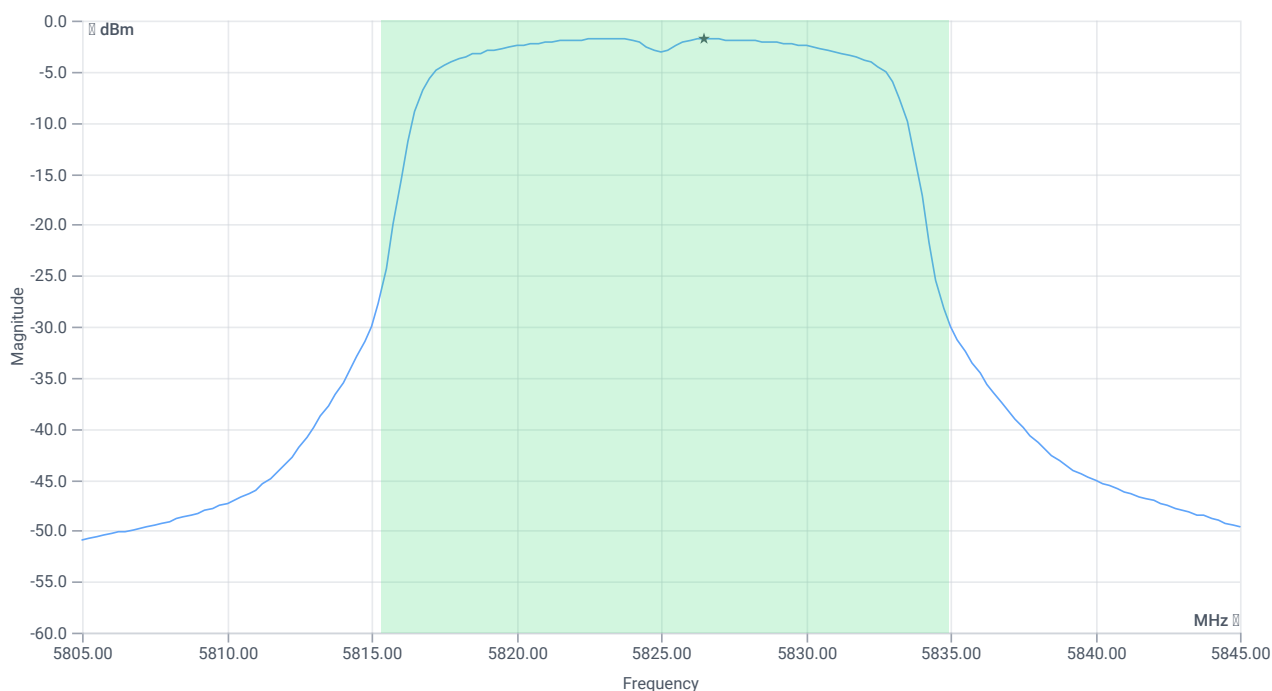
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 19.6      | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5815.3200 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5834.9200 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.21   13.38   20   |
| Start [MHz]   Stop [MHz]                             | 5805.000   5845.000  |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



Max OP and PSD

## RESULT

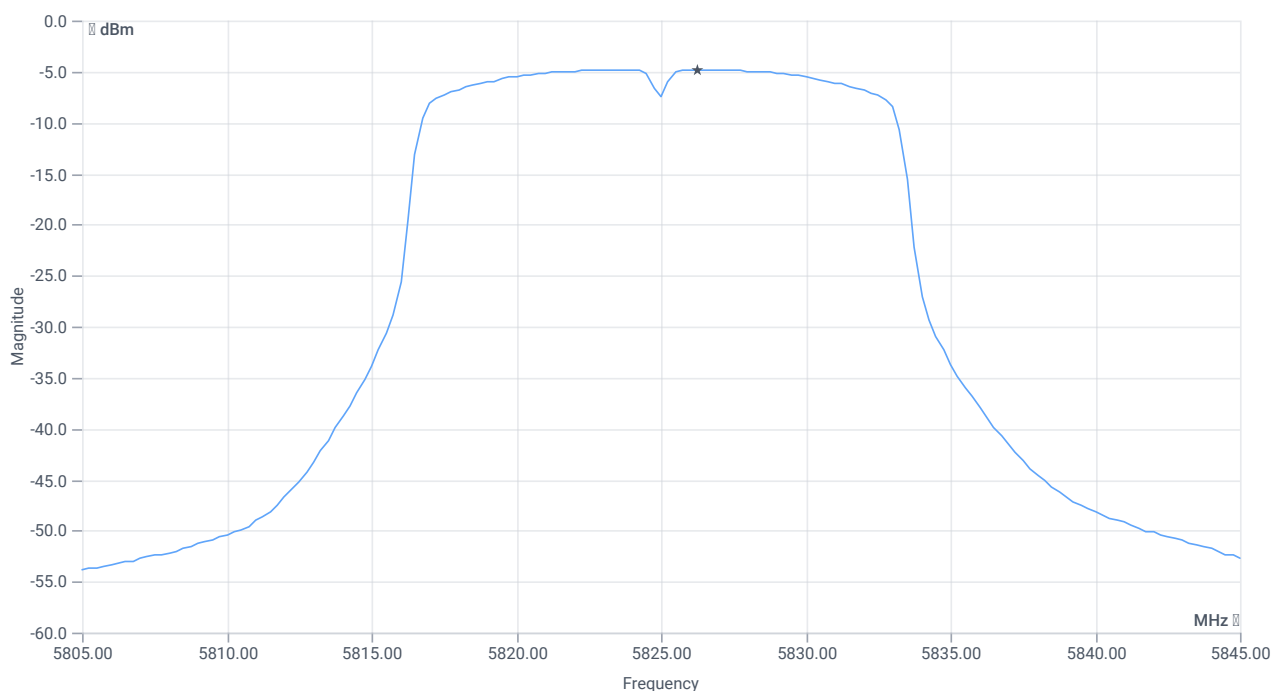
### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                        | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 9.3      | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.3      | dB   | INFO    |
| LIMIT absolute:                    |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 9.6      | dBm  | PASS    |
| LIMIT: 11 dBm + 10 log 19.6        |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 23.92       | 9.6      | dBm  | na      |

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.21   13.38   20   |
| Start [MHz]   Stop [MHz]                             | 5805.000   5845.000  |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



## RESULT

### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                              | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         | ---         | -4.79    | dBm/0.5MHz | INFO    |
| Duty cycle correction                    | ---         | ---         | 0.3      | dB         | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -4.49    | dBm/0.5MHz | PASS    |

### Verdict

PASS

# ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

## References

|                                               |                                                      |
|-----------------------------------------------|------------------------------------------------------|
| TC start                                      | 11.03.2025 09:58:31                                  |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                            |
| System version                                | 5.1.6.0                                              |
| Standard   Version                            | ISED RSS247   NI                                     |
| Method                                        |                                                      |
| Description                                   | ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-3 |
| Information                                   |                                                      |

## EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

## Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

## Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx a mode                            |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | True   Freq [MHz] 5825                    |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5825 MHz

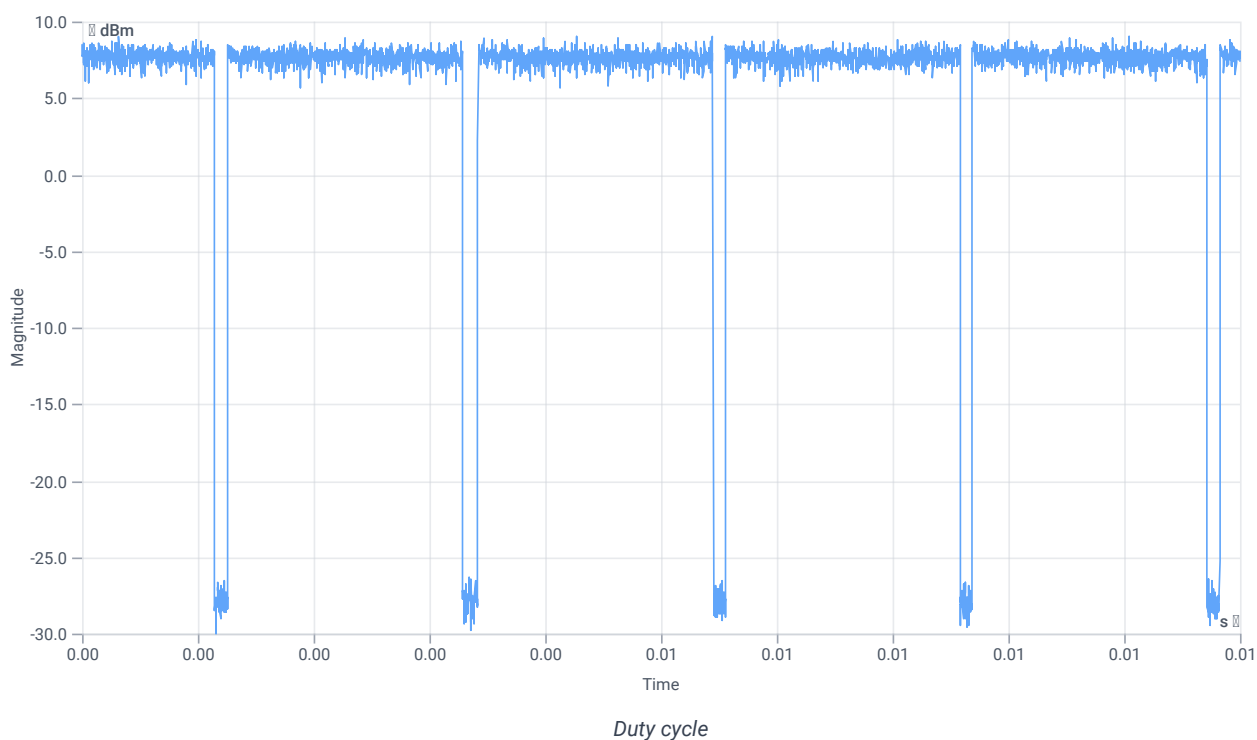
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.49     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5822.800 | MHz  | INFO    |

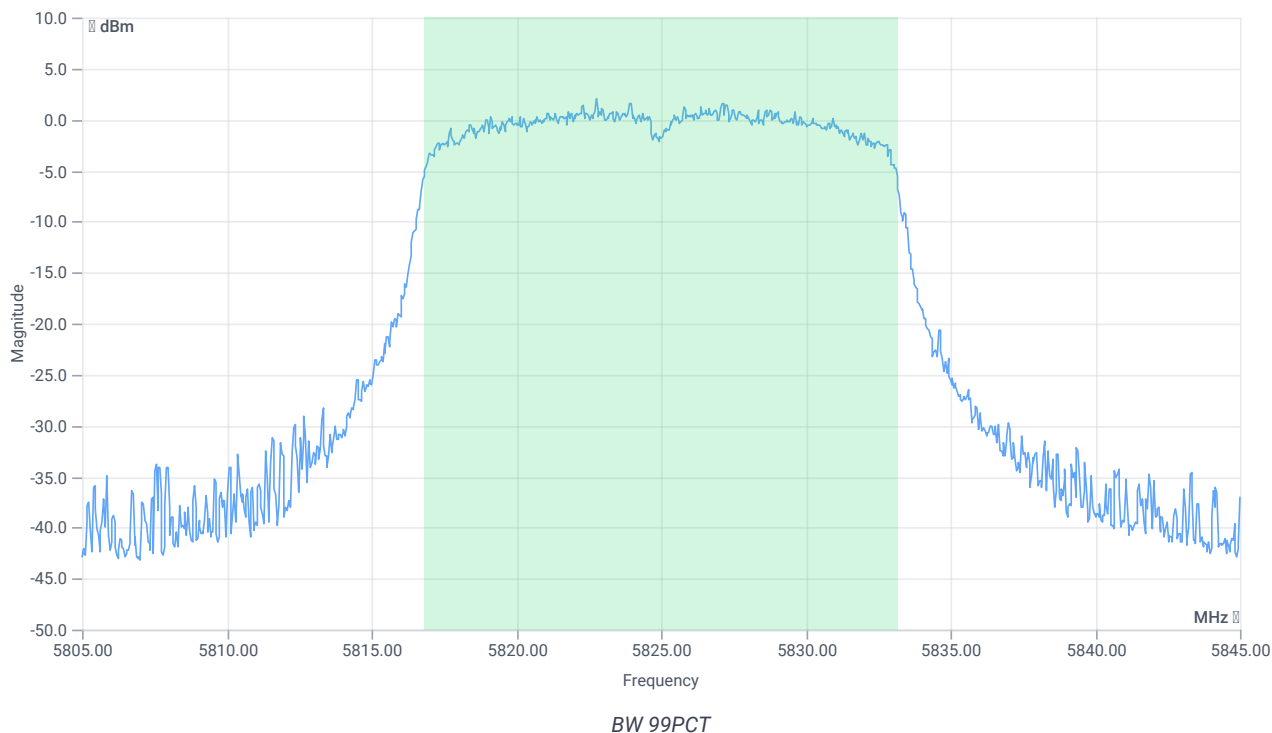
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 4    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.948    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.232    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.937    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.283    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 2.025    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.11     | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.135    | ms   | INFO    |



## Evaluation bandwidth



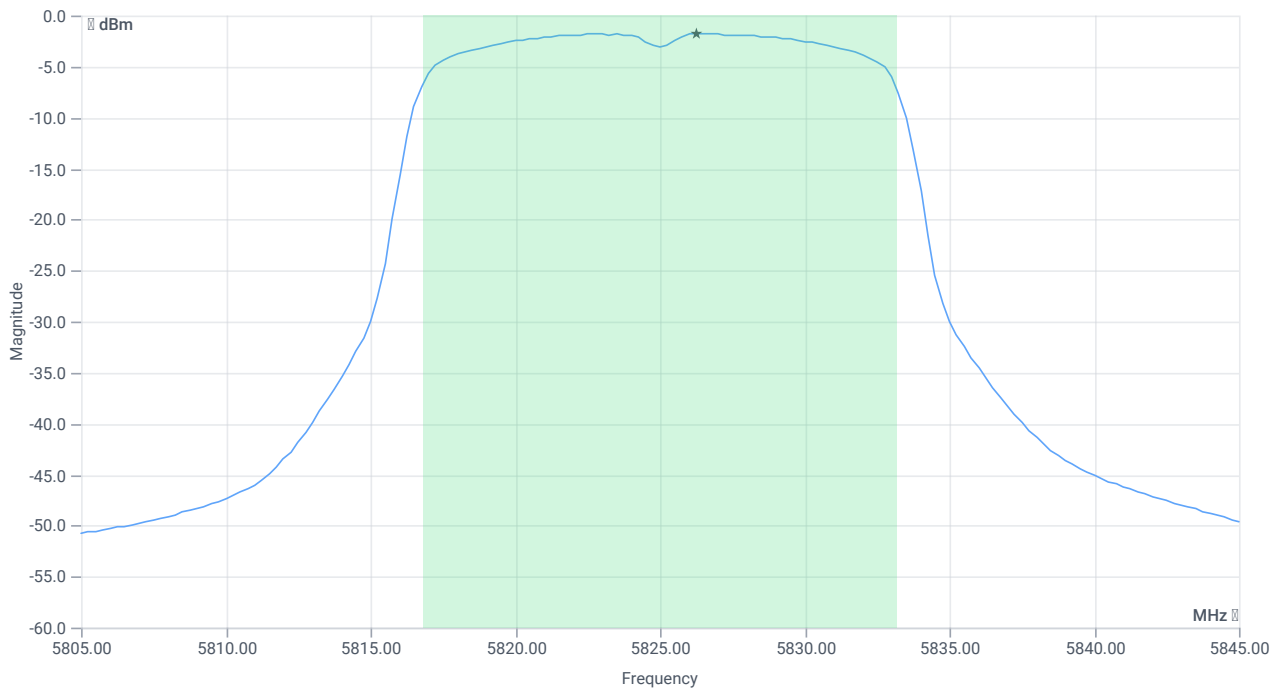
## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 16.344    | MHz  | INFO    |
| T1 99%        | ---         | ---         | 5816.8082 | MHz  | INFO    |
| T2 99%        | ---         | ---         | 5833.1518 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.49   13.38   20   |
| Start [MHz]   Stop [MHz]                             | 5805.000   5845.000  |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |

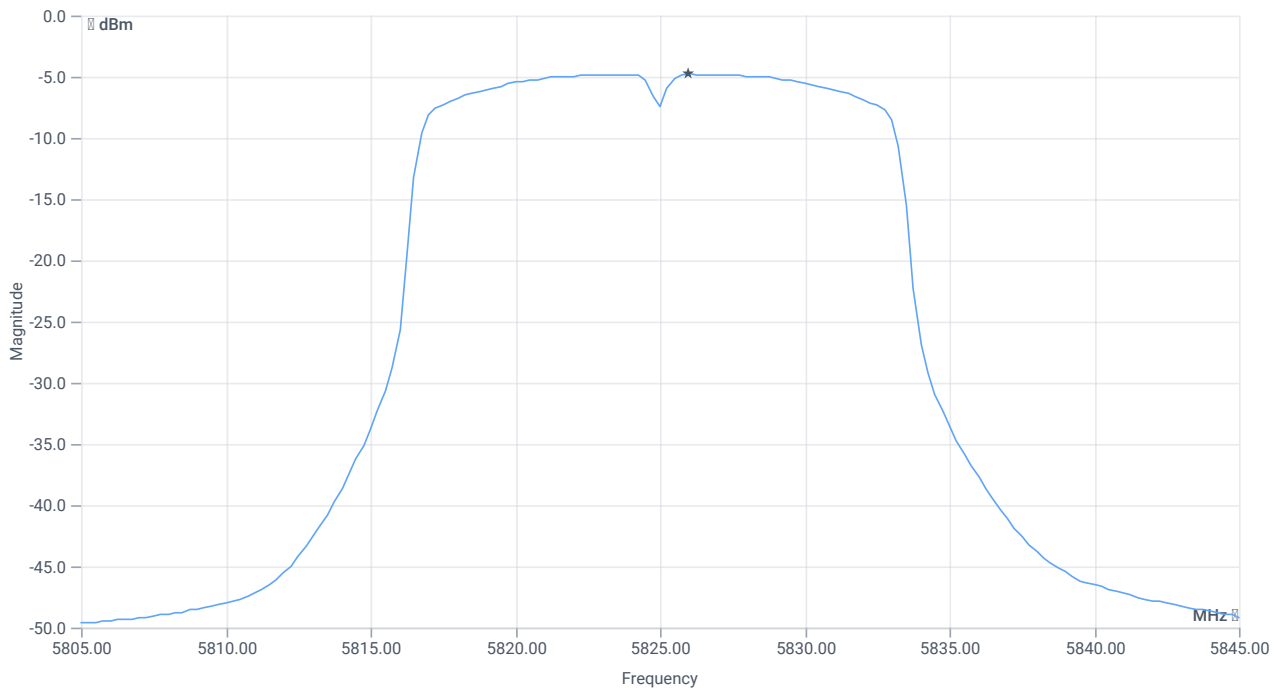


## RESULT

| DESCRIPTION                        | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 9.21     | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.28     | dB   | INFO    |
| LIMIT absolute cond                |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 9.49     | dBm  | PASS    |

## READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.49   13.38   25   |
| Start [MHz]   Stop [MHz]                             | 5805.000   5845.000  |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



## RESULT

| DESCRIPTION                              | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT       | VERDICT |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         |             | -4.79    | dBm/0.5MHz | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -4.51    | dBm/0.5MHz | PASS    |

## Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx a mode U-NII-3

### References

|                                               |                                                  |
|-----------------------------------------------|--------------------------------------------------|
| TC start                                      | 11.03.2025 09:59:19                              |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                        |
| System version                                | 5.1.6.0                                          |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                     |
| Method                                        | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN |
| Description                                   | FCC 15.407 Bandwidths - WLAN5Gx a mode U-NII-3   |
| Information                                   |                                                  |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx a mode                            |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | True   Freq [MHz] 5825                    |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

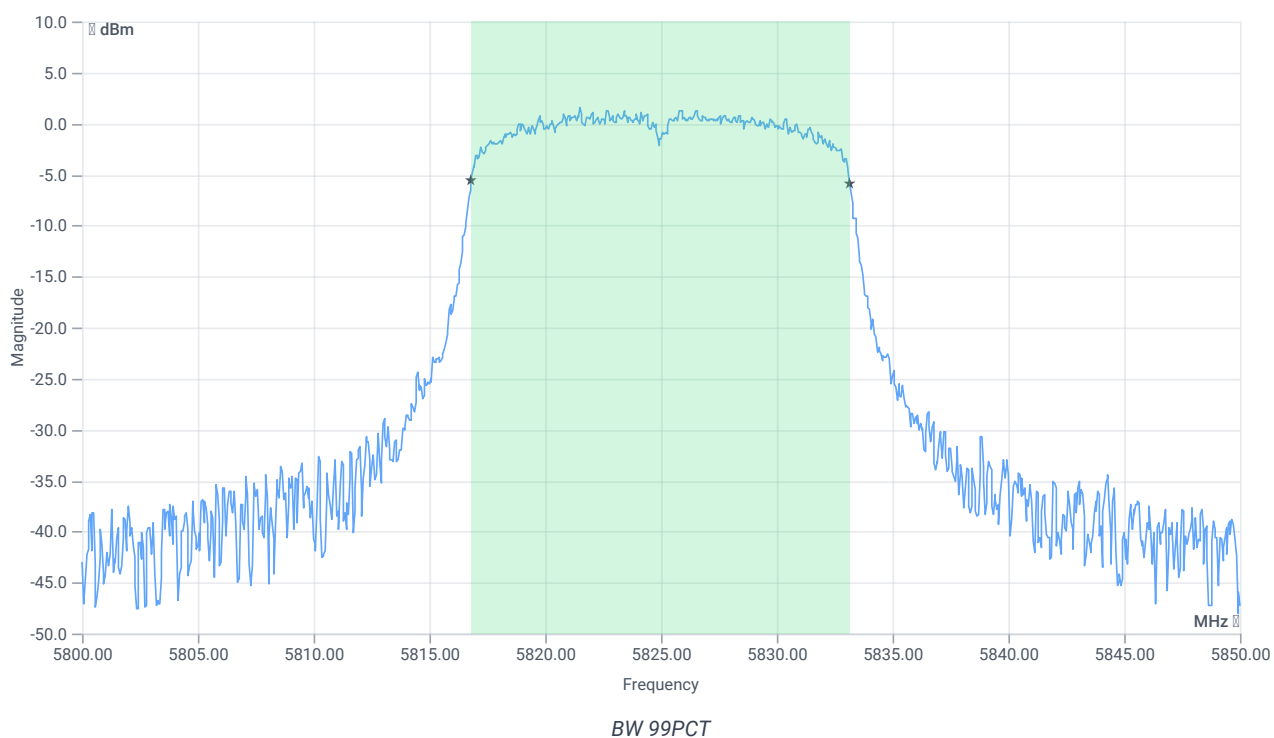
## Test at TX 5825 MHz

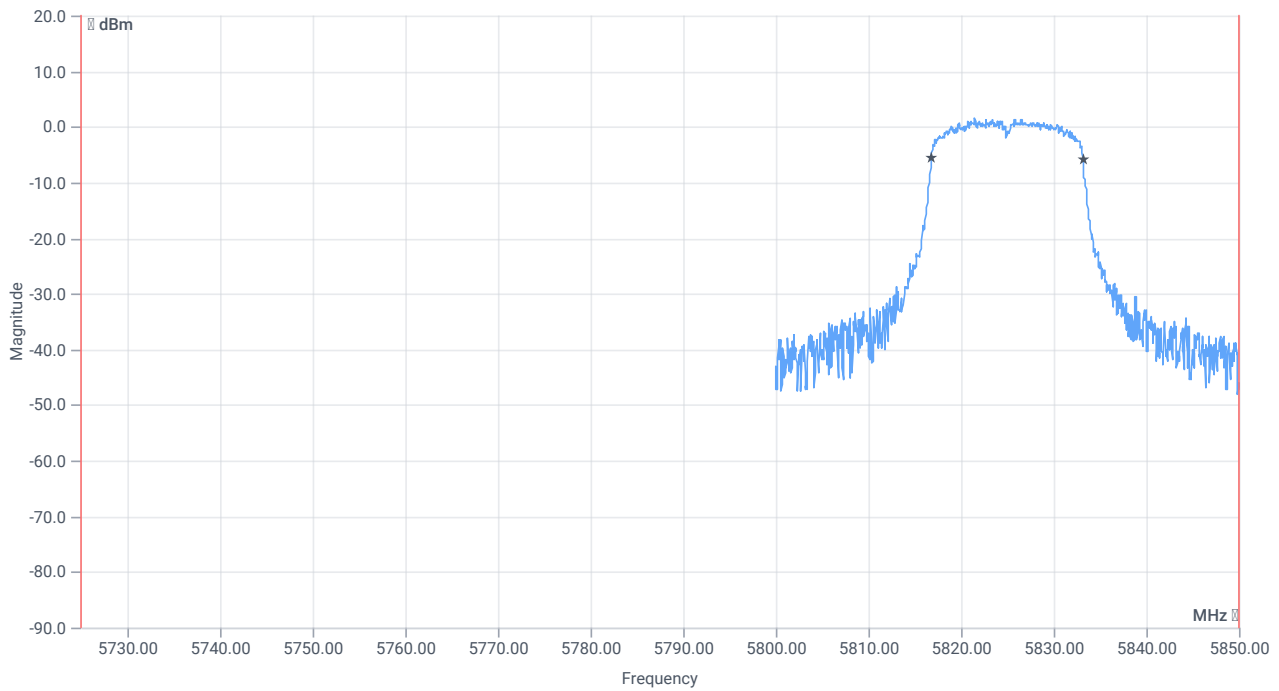
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.35     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5826.800 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 14.35   13.38   20    |
| Start [MHz]   Stop [MHz]                             | 5800.000   5850.000   |
| RBW [MHz]   VBW [MHz]                                | 0.300000   1.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

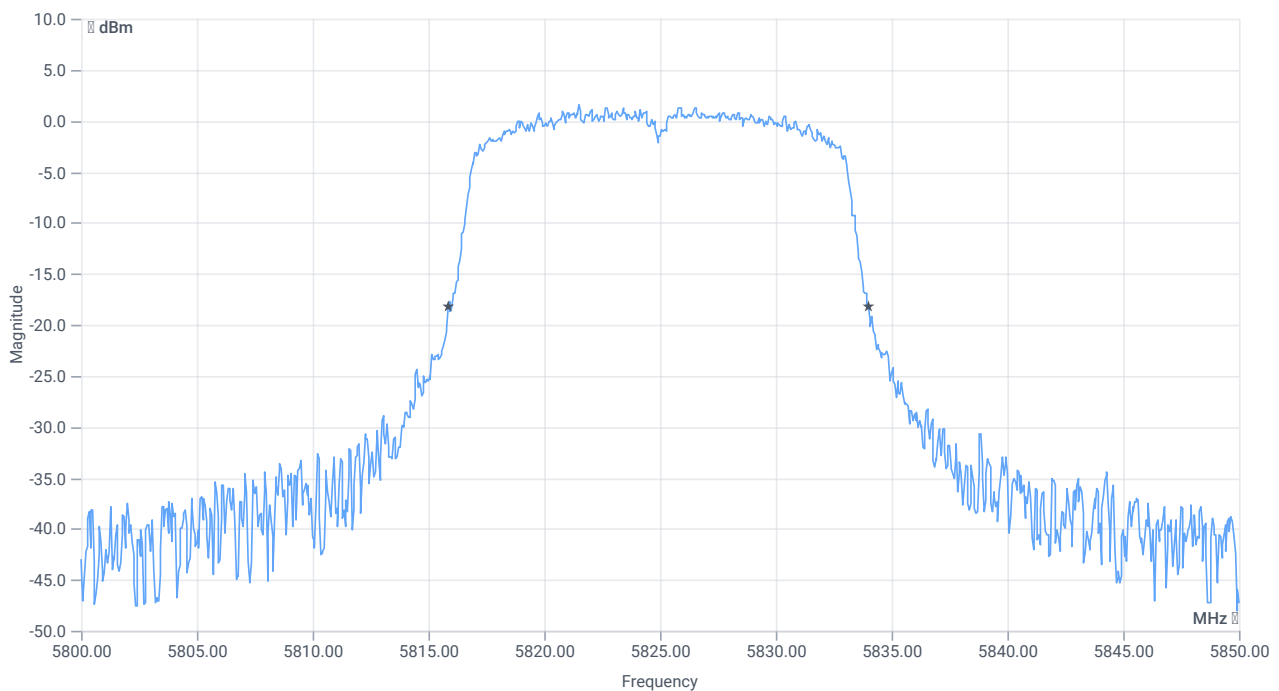




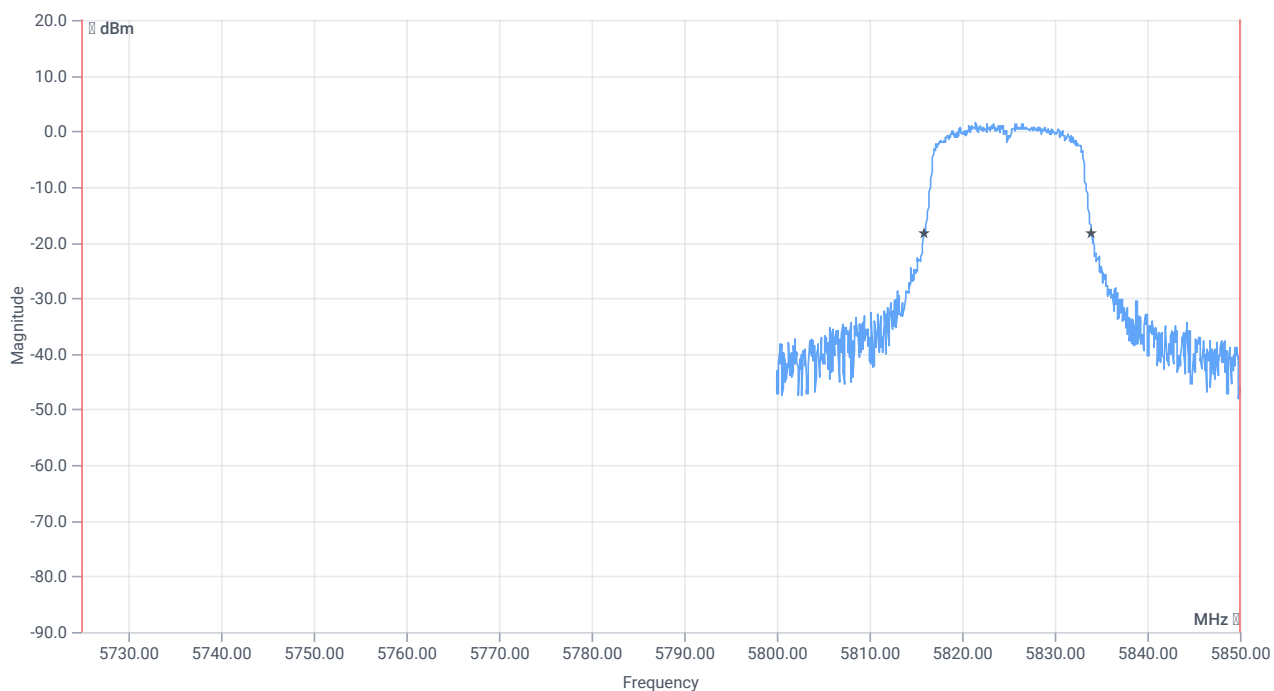
*BW within band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 16.334    | MHz  | INFO    |
| T1 99%        | 5725.000000 | ---         | 5816.8082 | MHz  | PASS    |
| T2 99%        | ---         | 5850.000000 | 5833.1419 | MHz  | PASS    |



BW 20dB



BW within band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 18.15     | MHz  | INFO    |
| T1 20dB        | 5725.000000 | ---         | 5815.8500 | MHz  | PASS    |
| T2 20dB        | ---         | 5850.000000 | 5834.0000 | MHz  | PASS    |

Verdict

PASS

## FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a mode U-NII-3

### References

|                                               |                                                            |
|-----------------------------------------------|------------------------------------------------------------|
| TC start                                      | 11.03.2025 09:59:58                                        |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                  |
| System version                                | 5.1.6.0                                                    |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                               |
| Method                                        | KDB789033 D02, C.2.                                        |
| Description                                   | FCC 15.407 Min Emission Bandwidth - WLAN5Gx a mode U-NII-3 |
| Information                                   |                                                            |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx a mode                            |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | True   Freq [MHz] 5825                    |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

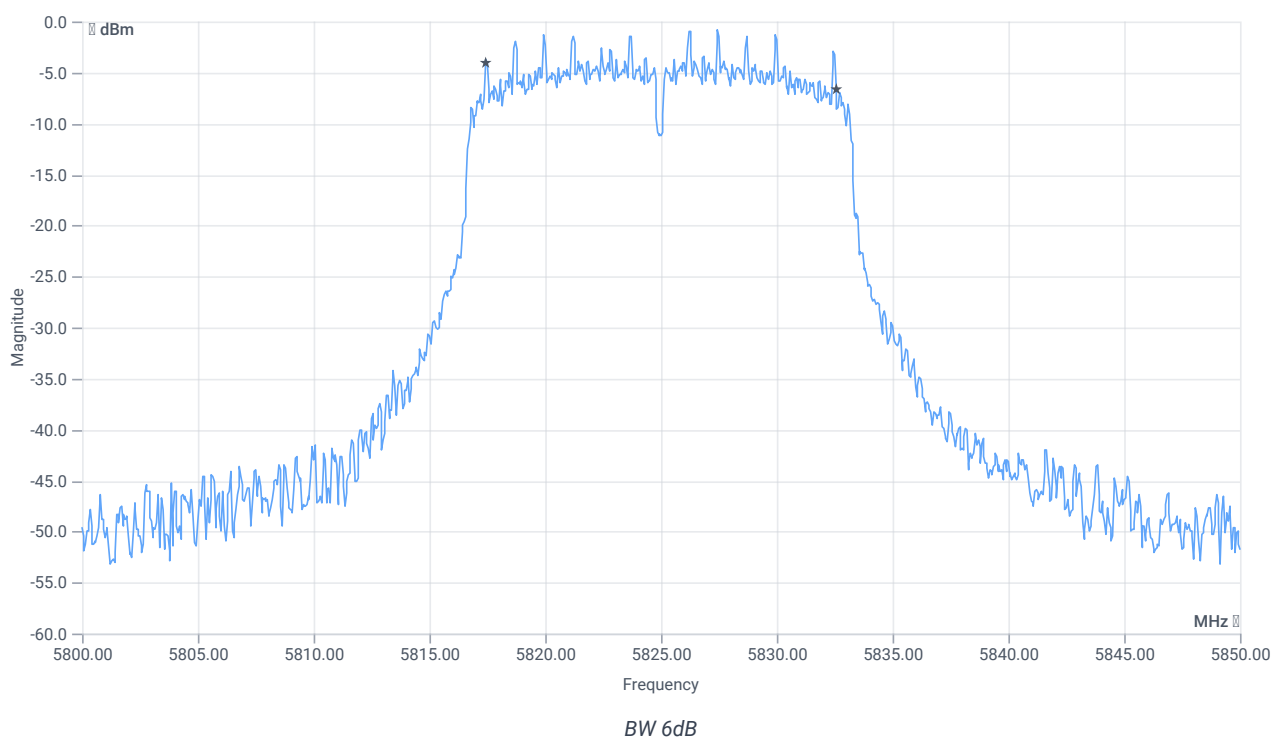
## Test at TX 5825 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.37     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5822.800 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.37   13.38   20    |
| Start [MHz]   Stop [MHz]                             | 5800.000   5850.000   |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 2   1500   1001   SWE |



### RESULT

| DESCRIPTION     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------|-------------|-------------|----------|------|---------|
| Bandwidth (6dB) | 0.500       | ---         | 15.15    | MHz  | PASS    |

#### Verdict

PASS

## FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx a mode U-NII-3

### References

|                                               |                                                   |
|-----------------------------------------------|---------------------------------------------------|
| TC start                                      | 11.03.2025 10:00:36                               |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                         |
| System version                                | 5.1.6.0                                           |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                      |
| Method                                        | NI                                                |
| Description                                   | FCC 15.407 Emission mask - WLAN5Gx a mode U-NII-3 |
| Information                                   |                                                   |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx a mode                            |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | True   Freq [MHz] 5825                    |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5825 MHz

Number of antenna ports: 1

reduction of limit due to number of antenna ports [dB]: 0

RESULT: Reference power cond.

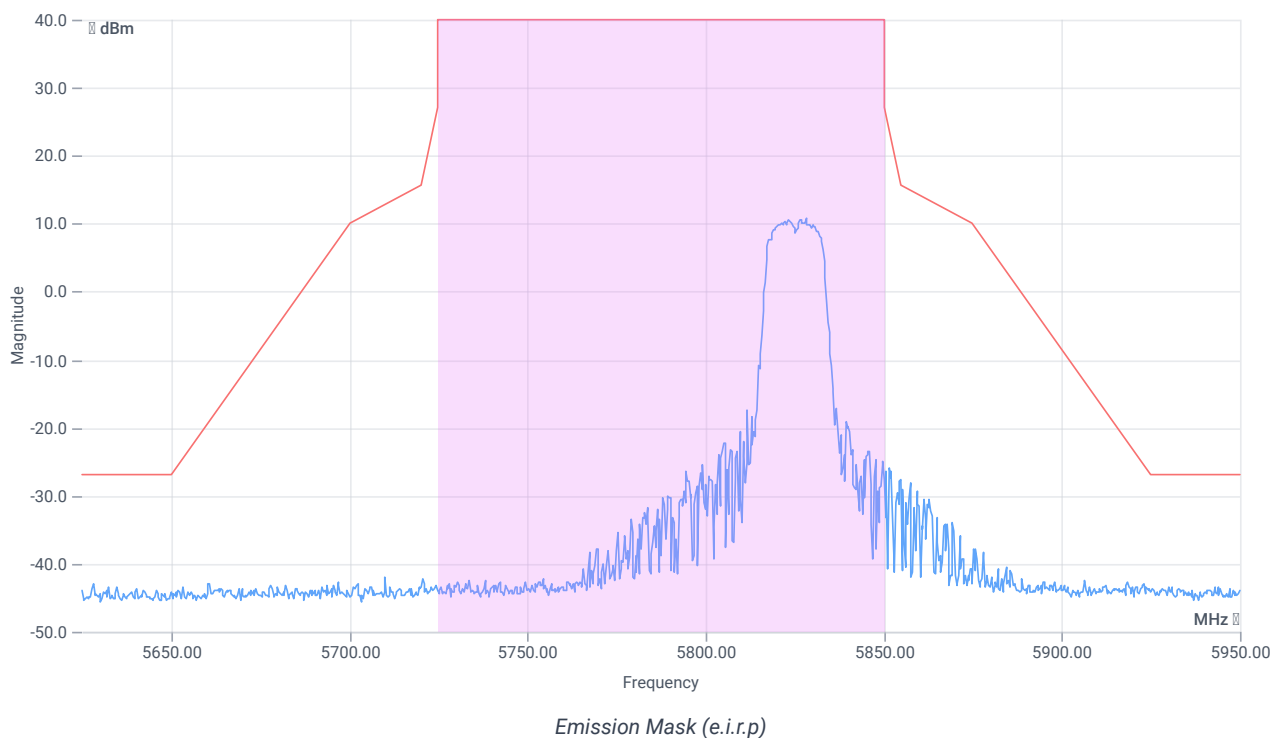
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.03     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5824.600 | MHz  | INFO    |

## Antenna gain

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Considered antenna gain [dBi]: | 3.4 / max found in range 5625 to 5950 MHz |
|--------------------------------|-------------------------------------------|

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 9.03   13.38   15     |
| Start [MHz]   Stop [MHz]                             | 5625.000   5950.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |



## RESULT

| DESCRIPTION                                                           | LOWER LIMIT | UPPER LIMIT | MEASURED                                                               | UNIT | VERDICT |
|-----------------------------------------------------------------------|-------------|-------------|------------------------------------------------------------------------|------|---------|
| cetecom advanced GmbH<br>Untertürkheimer Str. 6-10, 66117 Saarbrücken |             |             | Document No. 1-8801-24-01-18_TR1-A201-R1<br>Release 1 - Page 60 of 175 |      |         |

Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

### References

|                                               |                                                                 |
|-----------------------------------------------|-----------------------------------------------------------------|
| TC start                                      | 11.03.2025 10:05:35                                             |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                       |
| System version                                | 5.1.6.0                                                         |
| Standard   Version                            | FCC 15.407   NI                                                 |
| Method                                        | KDB789033 D02, F., E.2.e.                                       |
| Description                                   | FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3 |
| Information                                   |                                                                 |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | True   Freq [MHz] 5745                    |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5745 MHz

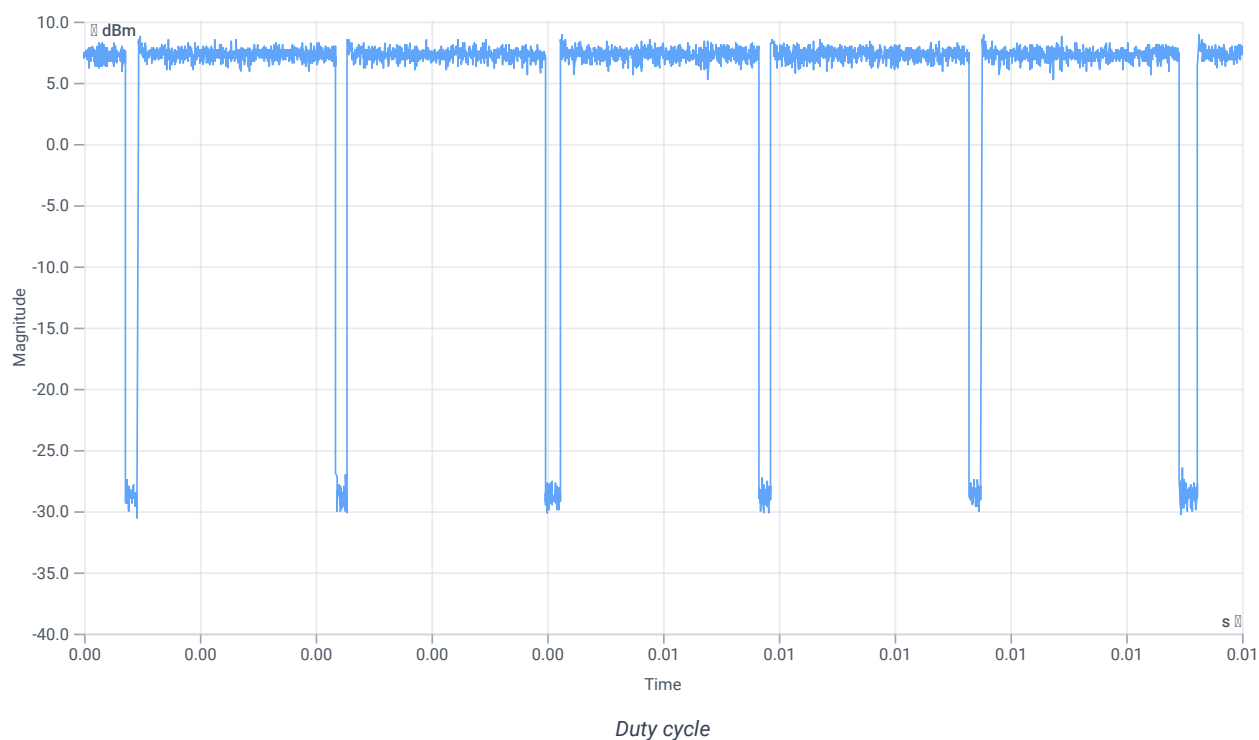
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.36     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5747.200 | MHz  | INFO    |

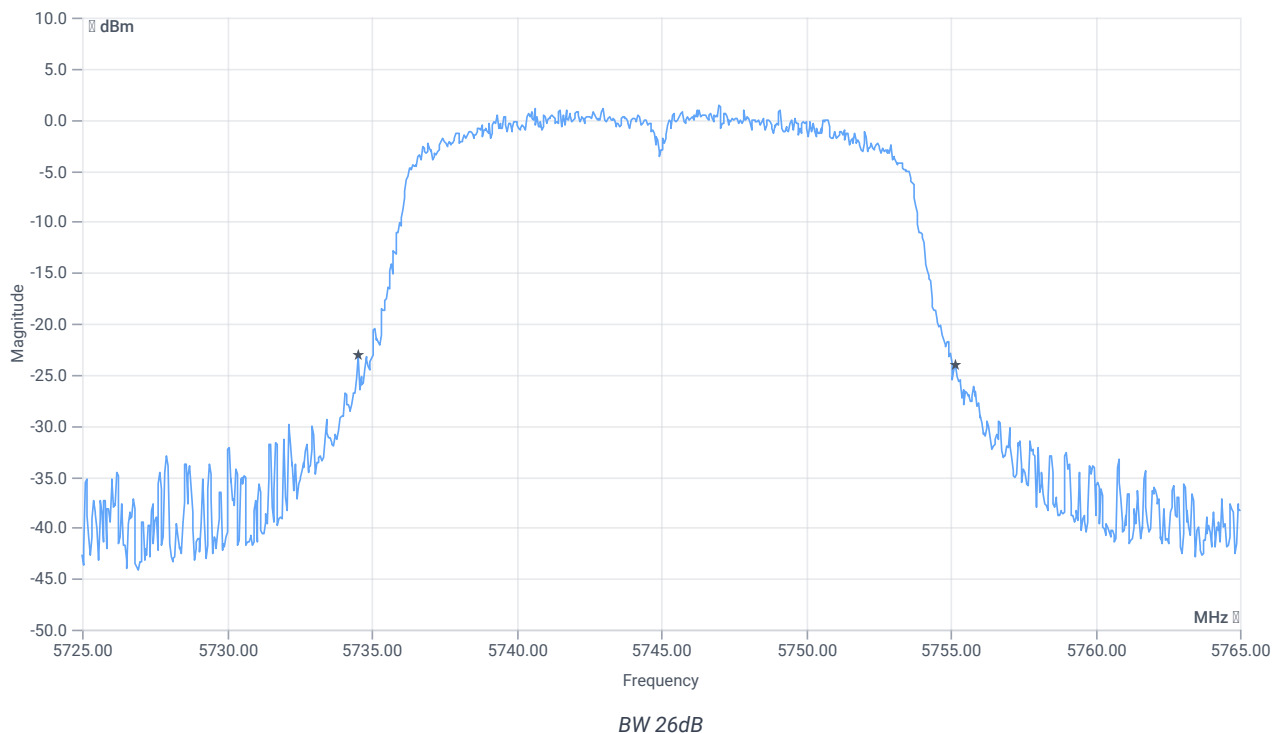
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 5    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.945    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.246    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.925    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.339    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 1.708    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.1      | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.138    | ms   | INFO    |



## Evaluation bandwidth



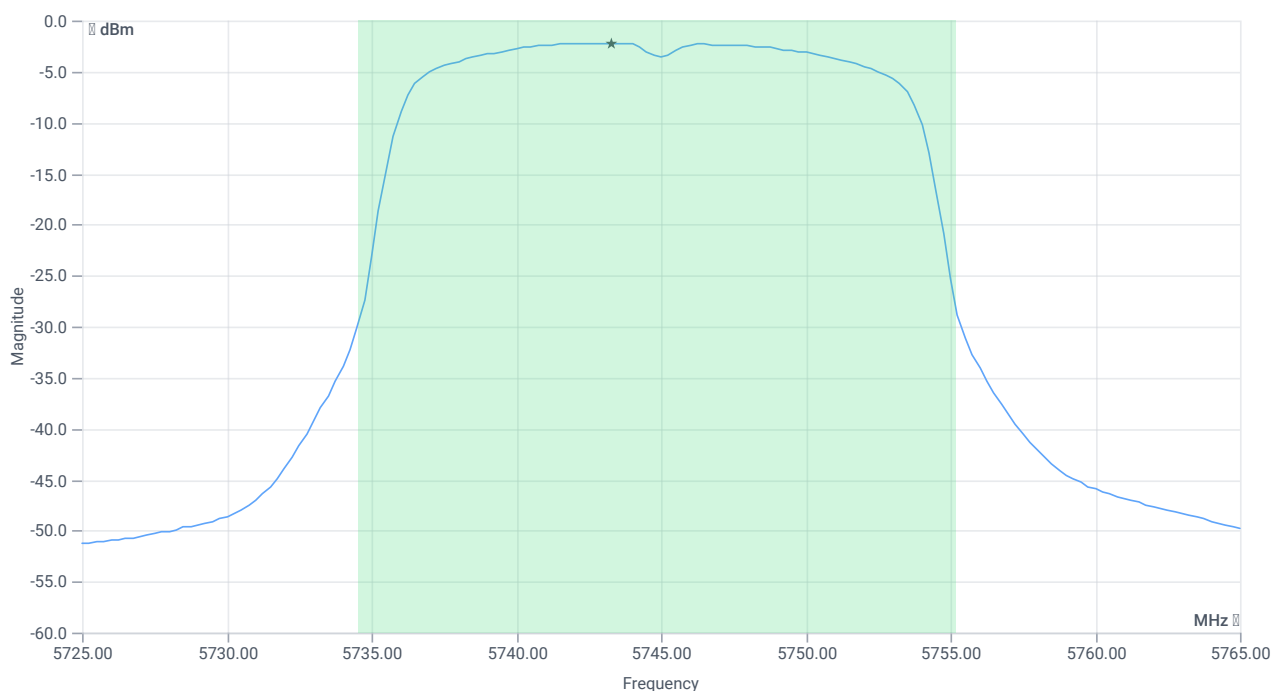
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 20.68     | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5734.5200 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5755.2000 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.36   12.81   20   |
| Start [MHz]   Stop [MHz]                             | 5725.000   5765.000  |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



Max OP and PSD

## RESULT

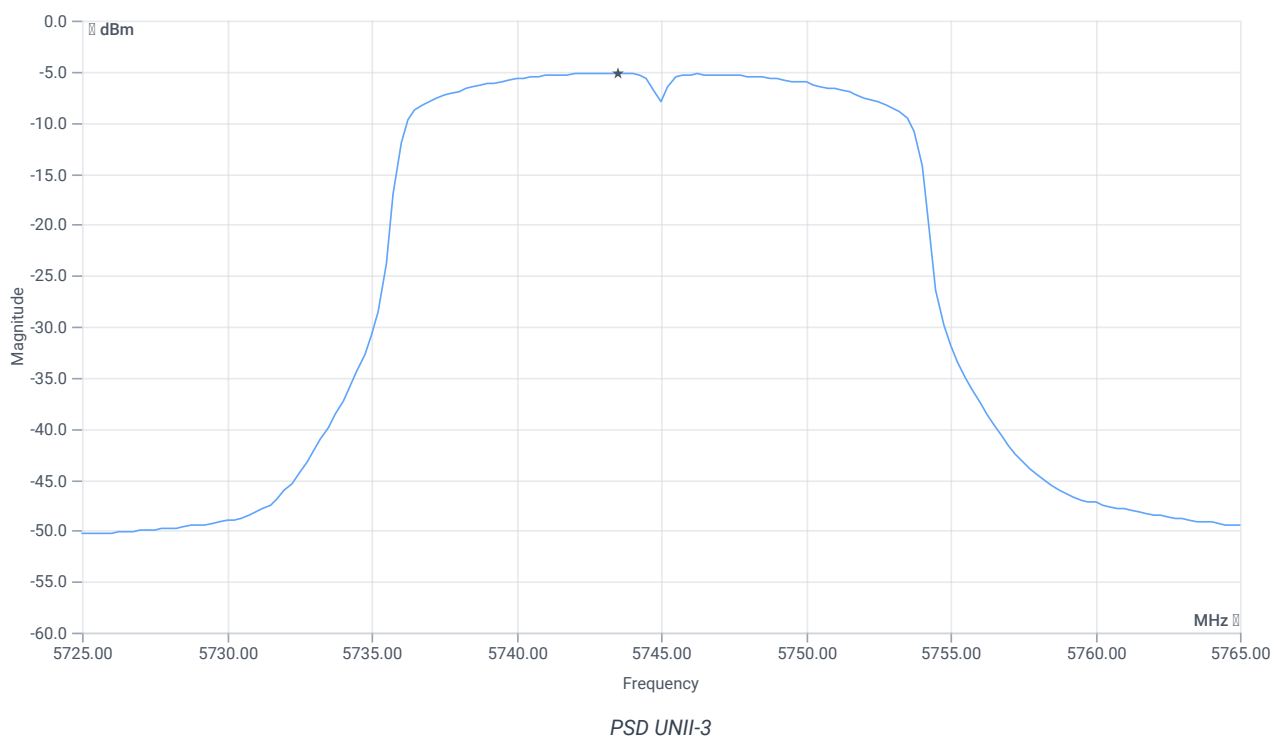
### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                        | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 9        | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.34     | dB   | INFO    |
| LIMIT absolute:                    |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 9.34     | dBm  | PASS    |
| LIMIT: 11 dBm + 10 log 20.68       |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 24.16       | 9.34     | dBm  | na      |

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.36   12.81   25   |
| Start [MHz]   Stop [MHz]                             | 5725.000   5765.000  |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



## RESULT

### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                              | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         | ---         | -5.15    | dBm/0.5MHz | INFO    |
| Duty cycle correction                    | ---         | ---         | 0.34     | dB         | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -4.81    | dBm/0.5MHz | PASS    |

### Verdict

PASS

# ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

## References

|                                               |                                                           |
|-----------------------------------------------|-----------------------------------------------------------|
| TC start                                      | 11.03.2025 10:06:20                                       |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                 |
| System version                                | 5.1.6.0                                                   |
| Standard   Version                            | ISED RSS247   NI                                          |
| Method                                        |                                                           |
| Description                                   | ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3 |
| Information                                   |                                                           |

## EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

## Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

## Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | True   Freq [MHz] 5745                    |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5745 MHz

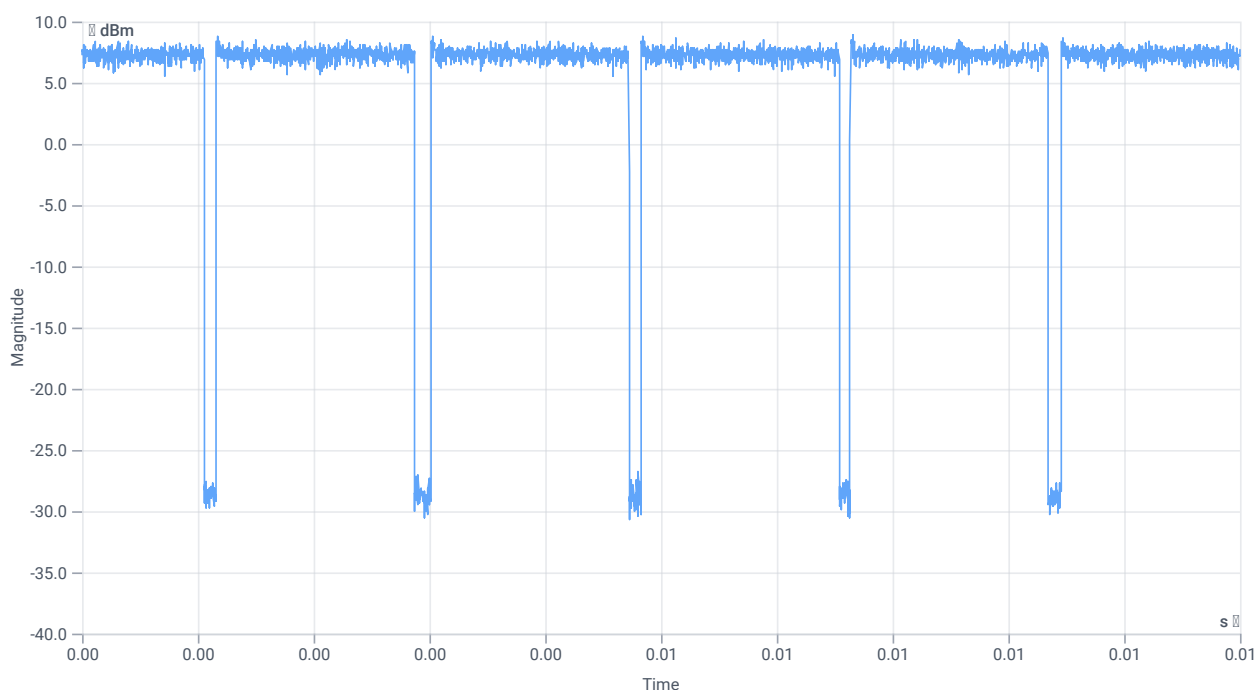
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.57     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5746.600 | MHz  | INFO    |

## Evaluation max. duty cycle

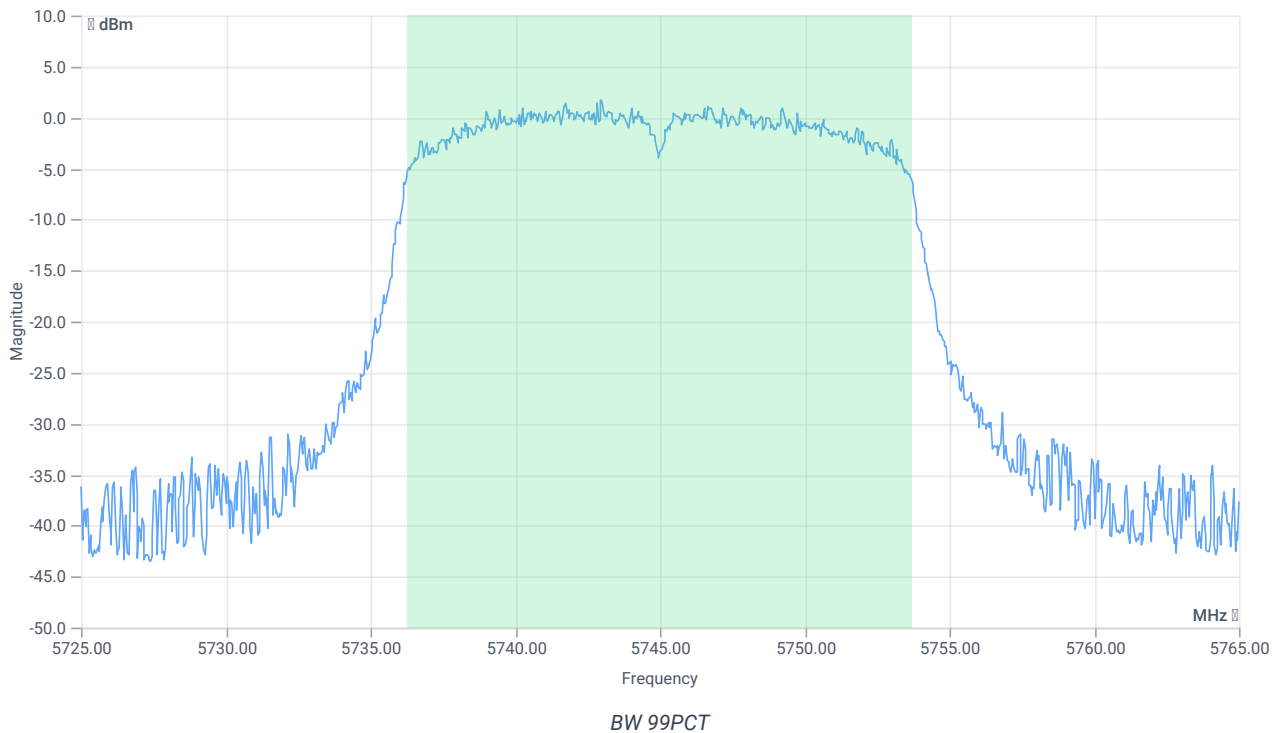
### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 4    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.945    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.246    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.922    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.353    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 1.708    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.1      | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.145    | ms   | INFO    |



Duty cycle

## Evaluation bandwidth



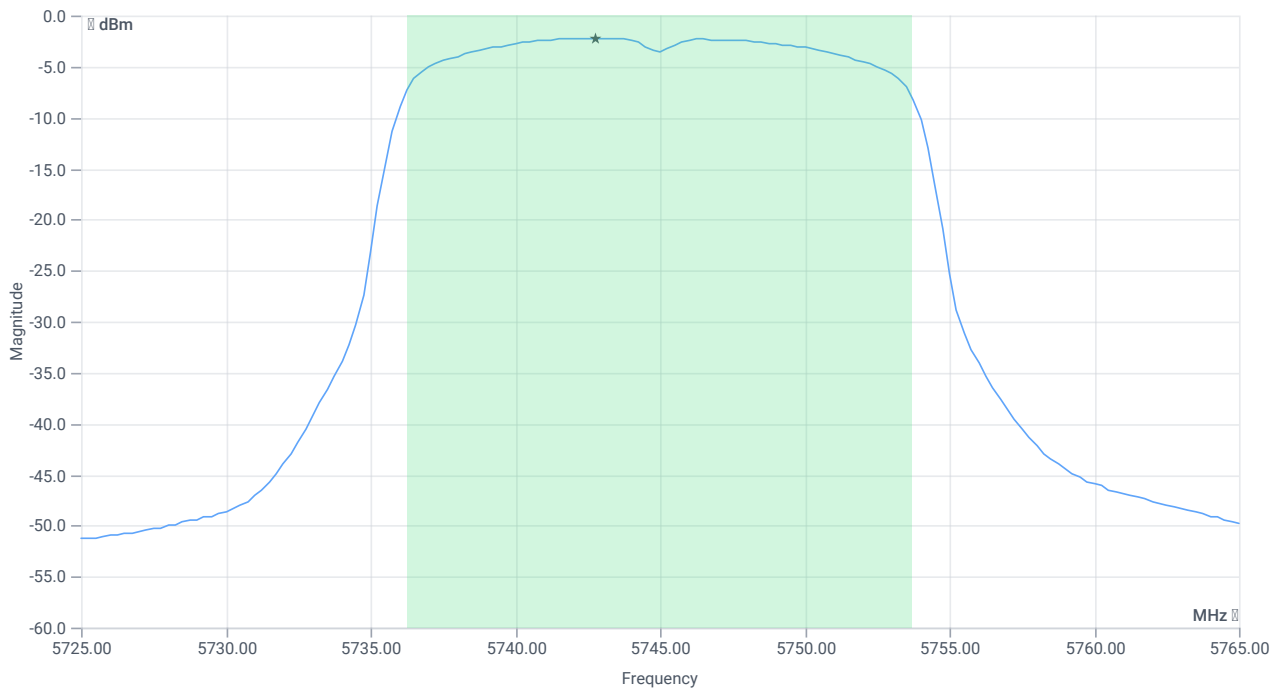
## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 17.423    | MHz  | INFO    |
| T1 99%        | ---         | ---         | 5736.2488 | MHz  | INFO    |
| T2 99%        | ---         | ---         | 5753.6713 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.57   12.81   20   |
| Start [MHz]   Stop [MHz]                             | 5725.000   5765.000  |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |

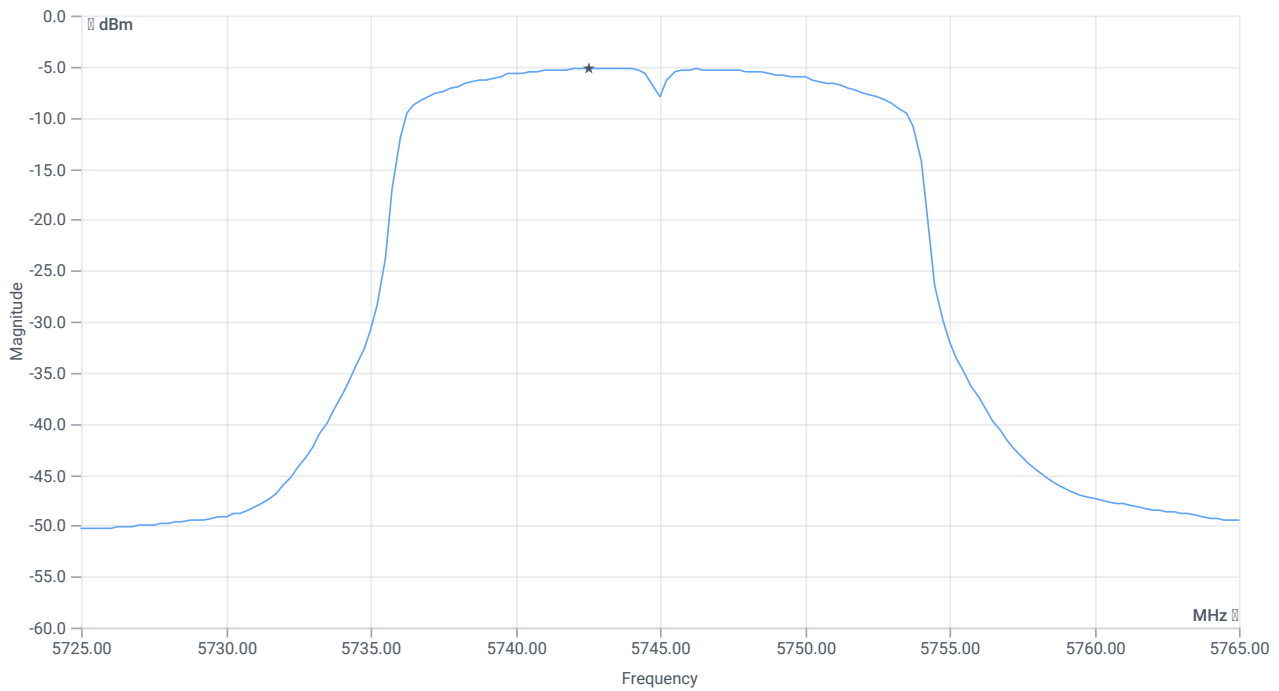


## RESULT

| DESCRIPTION                        | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 8.92     | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.35     | dB   | INFO    |
| LIMIT absolute cond                |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 9.27     | dBm  | PASS    |

## READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.57   12.81   25   |
| Start [MHz]   Stop [MHz]                             | 5725.000   5765.000  |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



## RESULT

| DESCRIPTION                              | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT       | VERDICT |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         |             | -5.16    | dBm/0.5MHz | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -4.81    | dBm/0.5MHz | PASS    |

## Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx n-HT20 mode U-NII-3

### References

|                                               |                                                     |
|-----------------------------------------------|-----------------------------------------------------|
| TC start                                      | 11.03.2025 10:07:08                                 |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                           |
| System version                                | 5.1.6.0                                             |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                        |
| Method                                        | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN    |
| Description                                   | FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-3 |
| Information                                   |                                                     |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | True   Freq [MHz] 5745                    |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

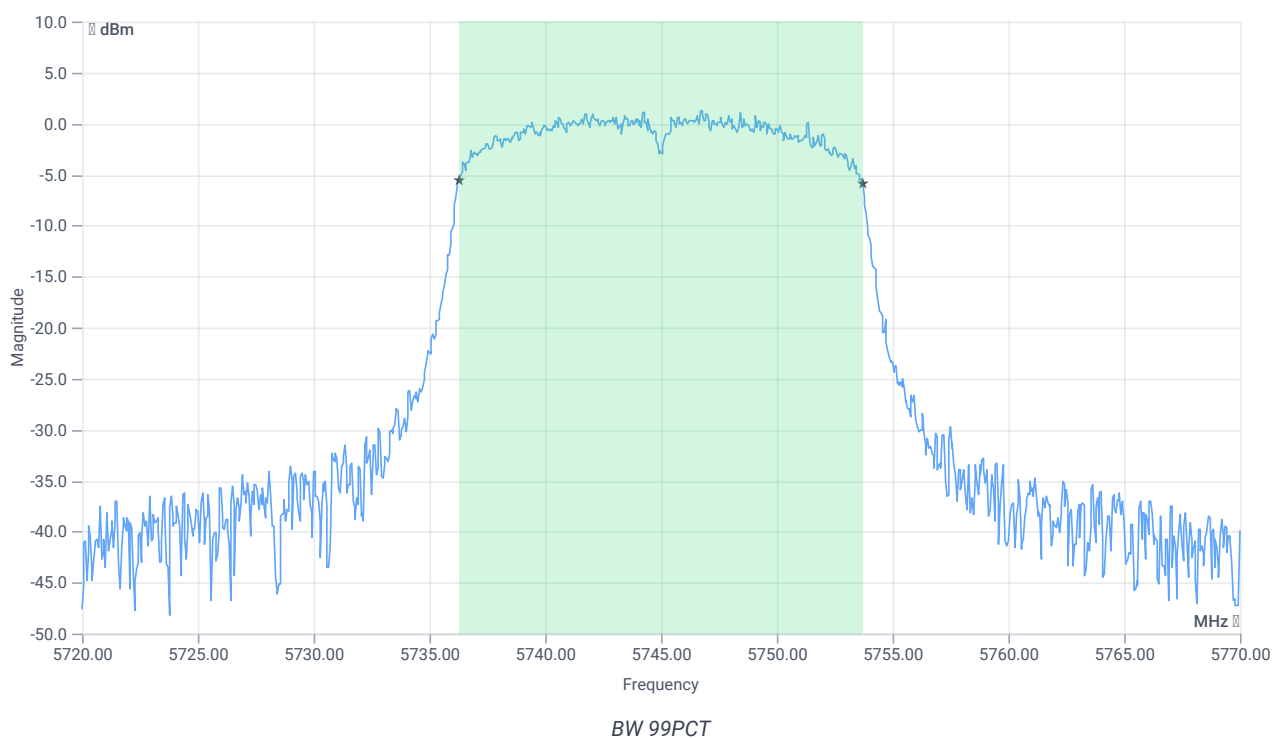
## Test at TX 5745 MHz

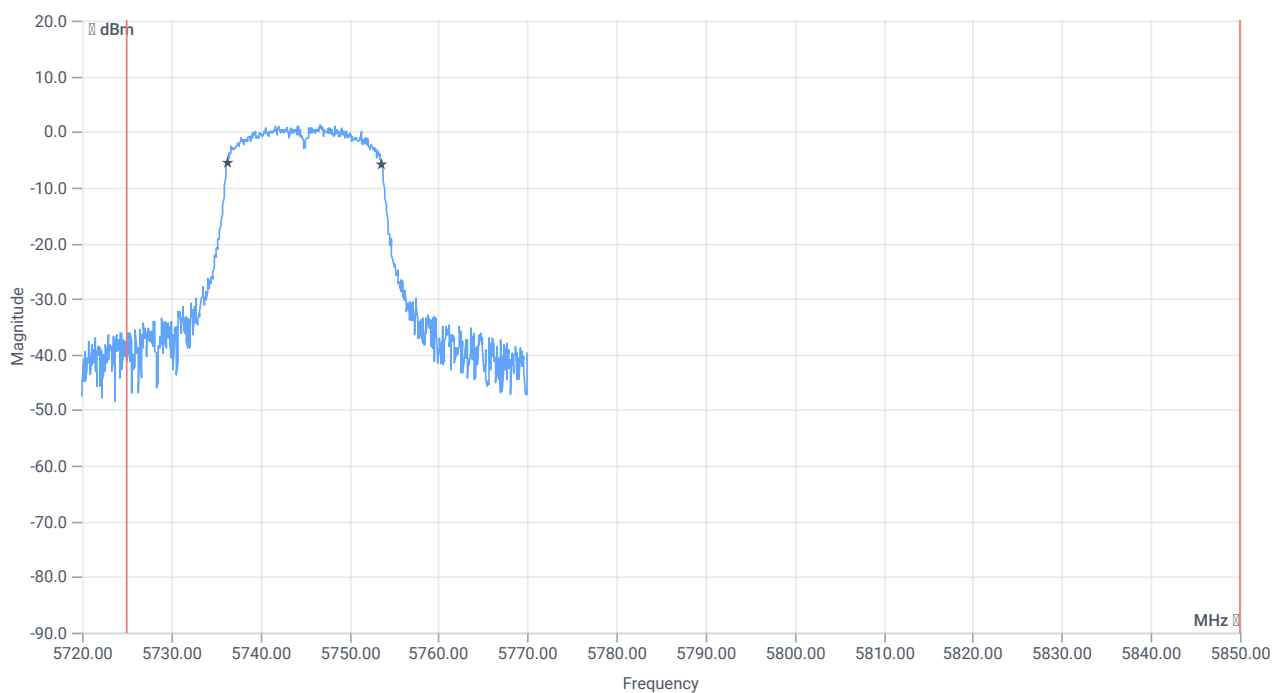
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 7.31     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5742.800 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 15.31   12.81   20    |
| Start [MHz]   Stop [MHz]                             | 5720.000   5770.000   |
| RBW [MHz]   VBW [MHz]                                | 0.300000   1.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

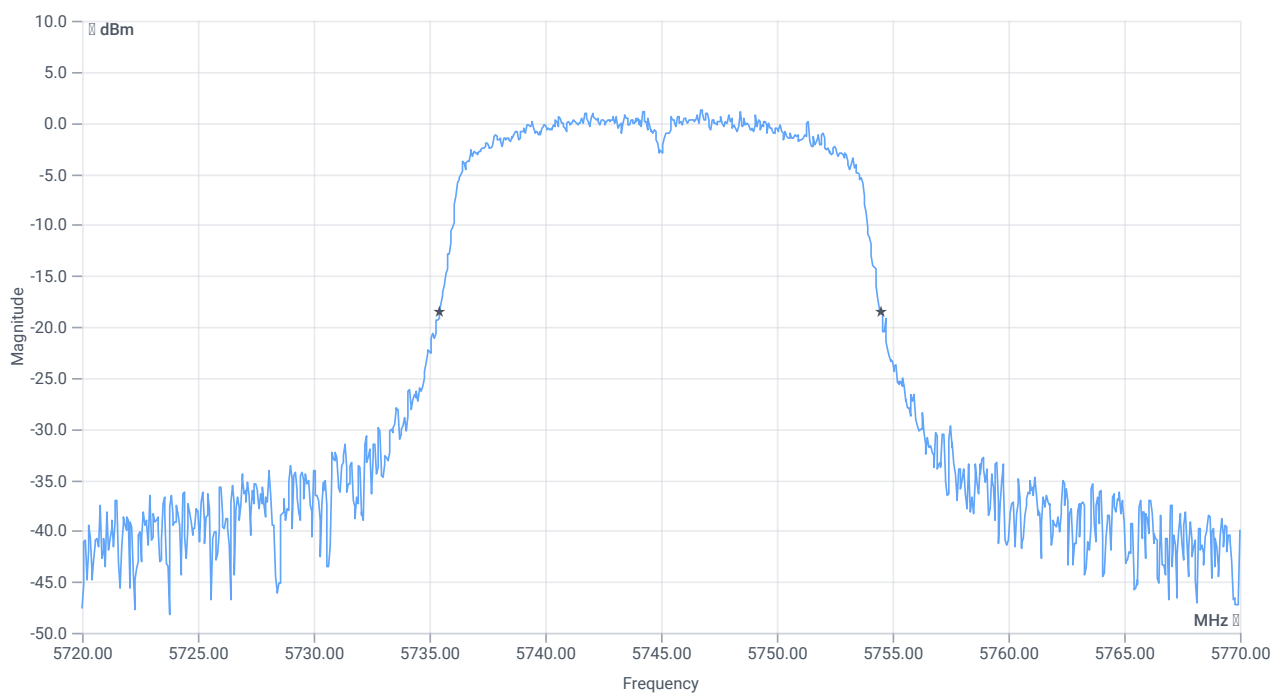




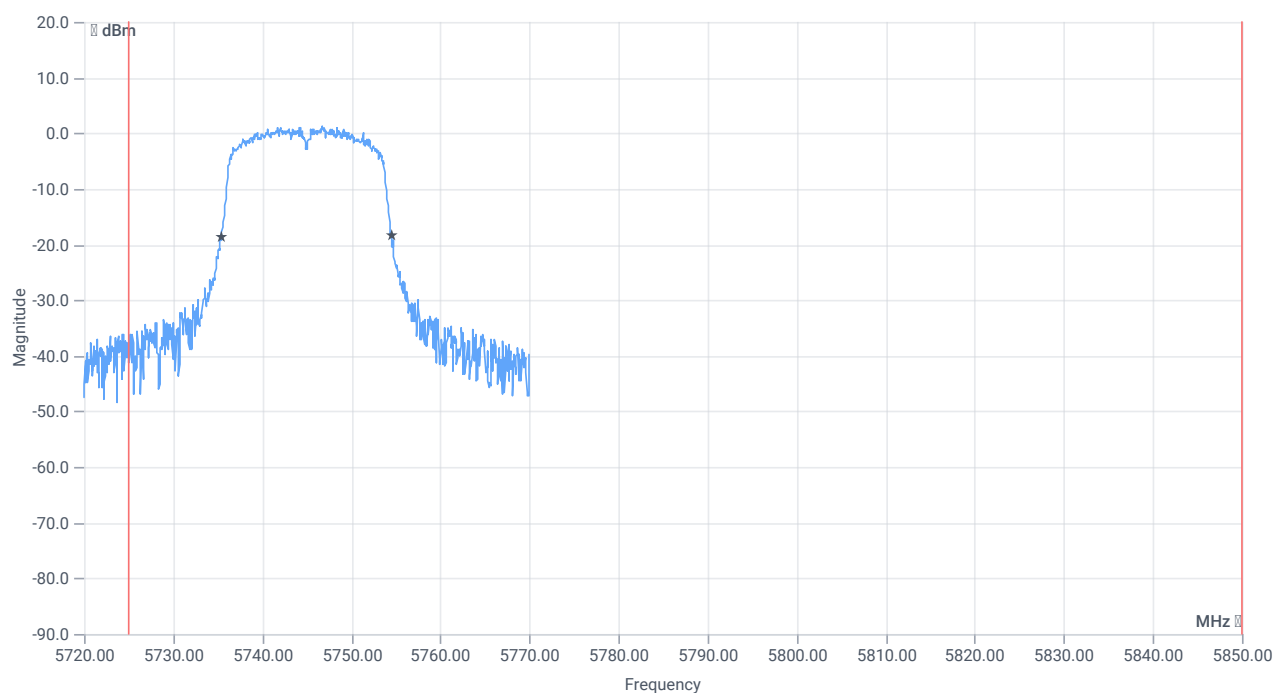
*BW within band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 17.433    | MHz  | INFO    |
| T1 99%        | 5725.000000 | ---         | 5736.2587 | MHz  | PASS    |
| T2 99%        | ---         | 5850.000000 | 5753.6913 | MHz  | PASS    |



BW 20dB



BW within band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 19.05     | MHz  | INFO    |
| T1 20dB        | 5725.000000 | ---         | 5735.4500 | MHz  | PASS    |
| T2 20dB        | ---         | 5850.000000 | 5754.5000 | MHz  | PASS    |

Verdict

PASS

## FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3

### References

|                                               |                                                                 |
|-----------------------------------------------|-----------------------------------------------------------------|
| TC start                                      | 11.03.2025 10:07:40                                             |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                       |
| System version                                | 5.1.6.0                                                         |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                                    |
| Method                                        | KDB789033 D02, C.2.                                             |
| Description                                   | FCC 15.407 Min Emission Bandwidth - WLAN5Gx n-HT20 mode U-NII-3 |
| Information                                   |                                                                 |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | True   Freq [MHz] 5745                    |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

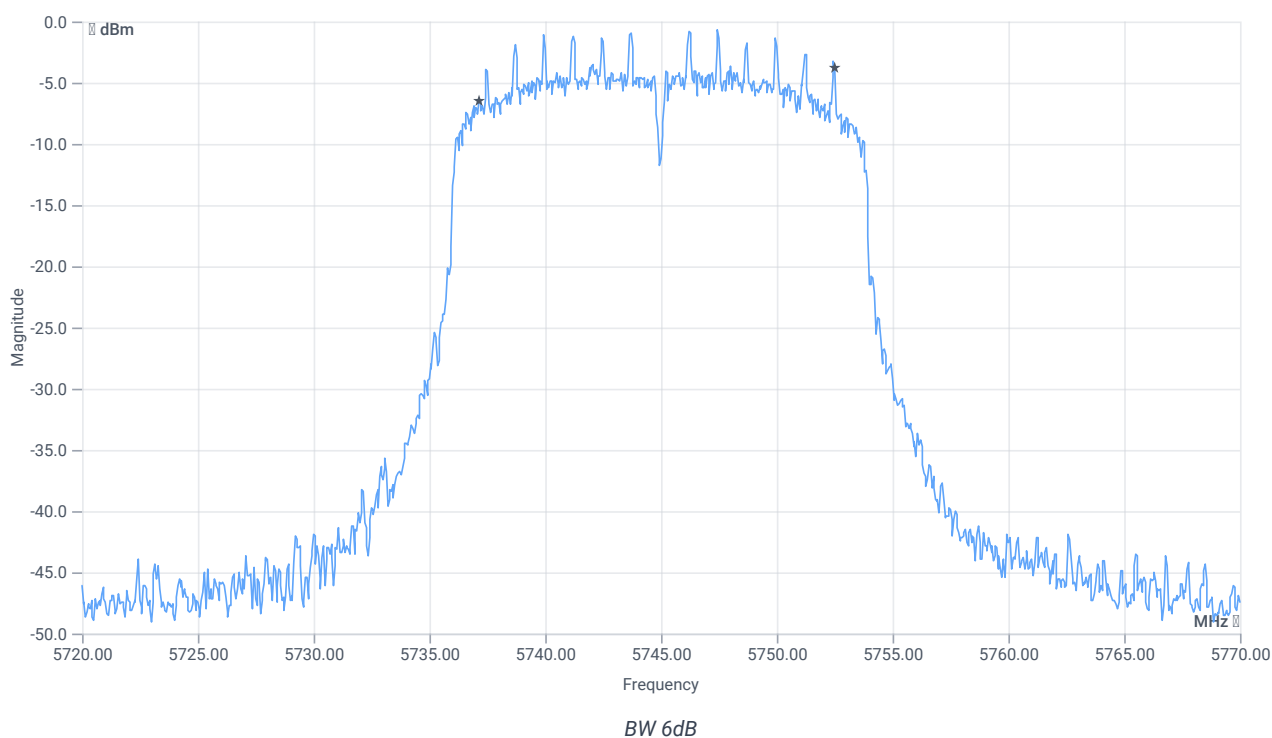
## Test at TX 5745 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 5.90     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5741.800 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 17.90   12.81   25    |
| Start [MHz]   Stop [MHz]                             | 5720.000   5770.000   |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 2   1500   1001   SWE |



### RESULT

| DESCRIPTION     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------|-------------|-------------|----------|------|---------|
| Bandwidth (6dB) | 0.500       | ---         | 15.35    | MHz  | PASS    |

#### Verdict

PASS

## FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx n-HT20 mode U-NII-3

### References

|                                               |                                                        |
|-----------------------------------------------|--------------------------------------------------------|
| TC start                                      | 11.03.2025 10:08:25                                    |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                              |
| System version                                | 5.1.6.0                                                |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                           |
| Method                                        | NI                                                     |
| Description                                   | FCC 15.407 Emission mask - WLAN5Gx n-HT20 mode U-NII-3 |
| Information                                   |                                                        |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | True   Freq [MHz] 5745                    |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5745 MHz

Number of antenna ports: 1

reduction of limit due to number of antenna ports [dB]: 0

RESULT: Reference power cond.

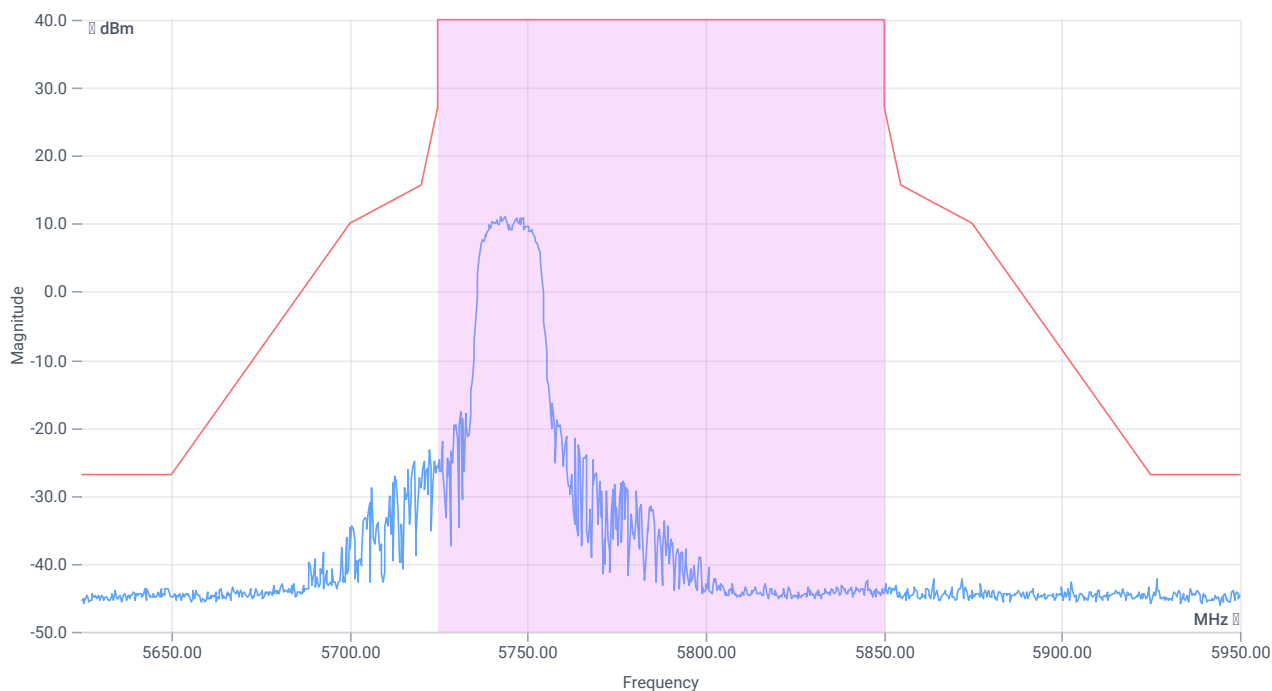
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 5.93     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5740.600 | MHz  | INFO    |

## Antenna gain

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Considered antenna gain [dBi]: | 3.4 / max found in range 5625 to 5950 MHz |
|--------------------------------|-------------------------------------------|

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 8.93   12.81   15     |
| Start [MHz]   Stop [MHz]                             | 5625.000   5950.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |



Emission Mask (e.i.r.p)

## RESULT

| DESCRIPTION                                                           | LOWER LIMIT | UPPER LIMIT | MEASURED                                                               | UNIT | VERDICT |
|-----------------------------------------------------------------------|-------------|-------------|------------------------------------------------------------------------|------|---------|
| cetecom advanced GmbH<br>Untertürkheimer Str. 6-10, 66117 Saarbrücken |             |             | Document No. 1-8801-24-01-18_TR1-A201-R1<br>Release 1 - Page 79 of 175 |      |         |

Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

### References

|                                               |                                                                 |
|-----------------------------------------------|-----------------------------------------------------------------|
| TC start                                      | 11.03.2025 10:20:15                                             |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                       |
| System version                                | 5.1.6.0                                                         |
| Standard   Version                            | FCC 15.407   NI                                                 |
| Method                                        | KDB789033 D02, F., E.2.e.                                       |
| Description                                   | FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3 |
| Information                                   |                                                                 |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | True   Freq [MHz] 5785                    |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5785 MHz

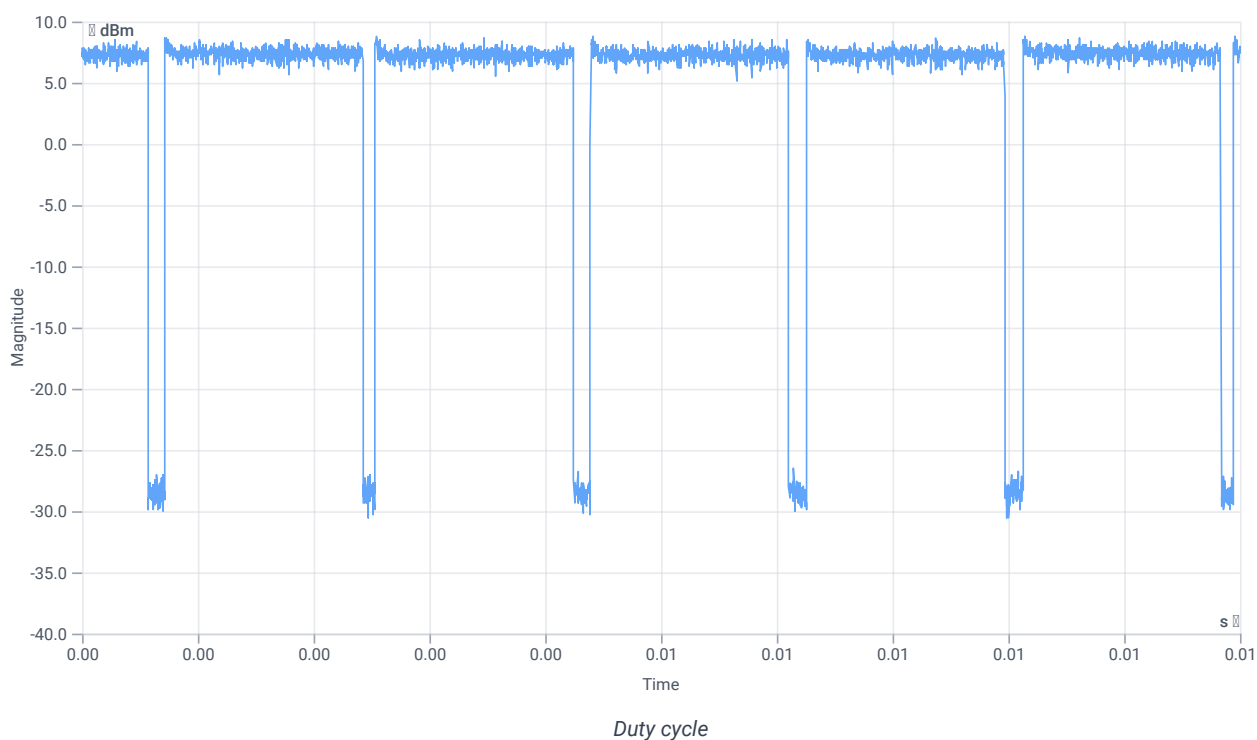
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.20     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5780.400 | MHz  | INFO    |

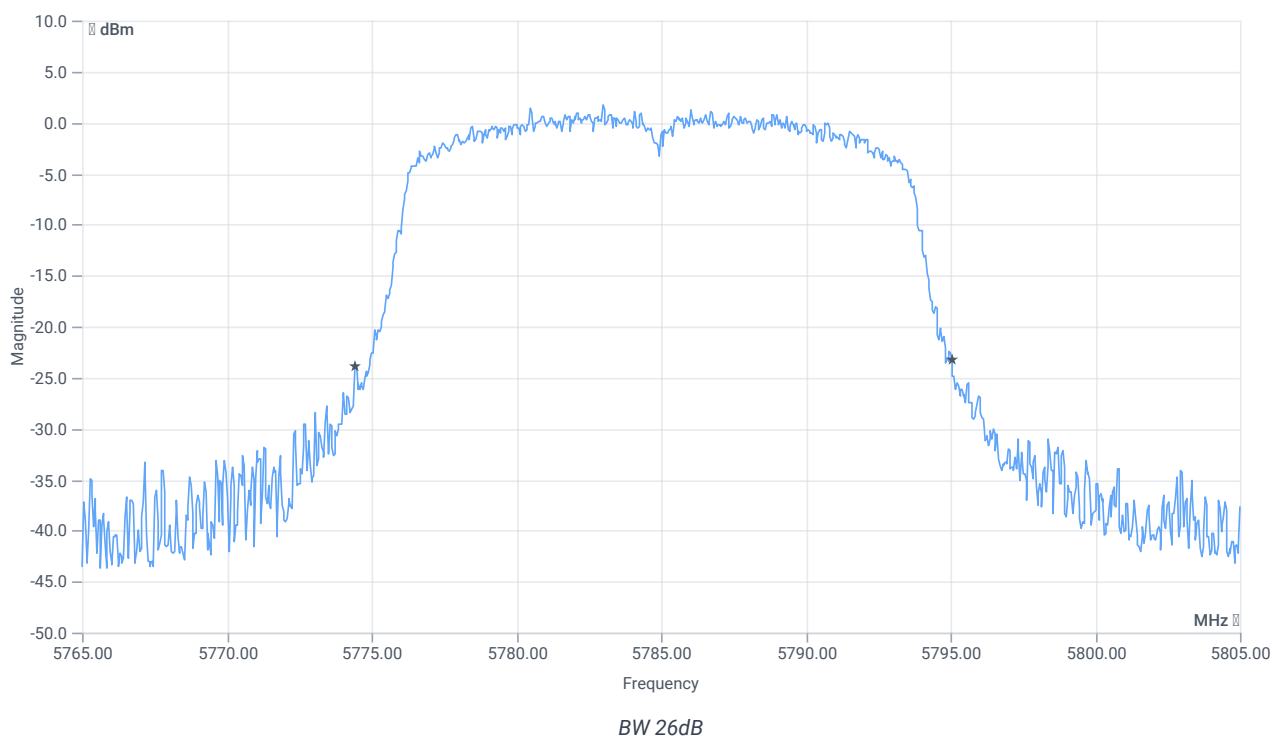
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 5    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.939    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.273    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.913    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.395    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 1.708    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.11     | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.162    | ms   | INFO    |



## Evaluation bandwidth



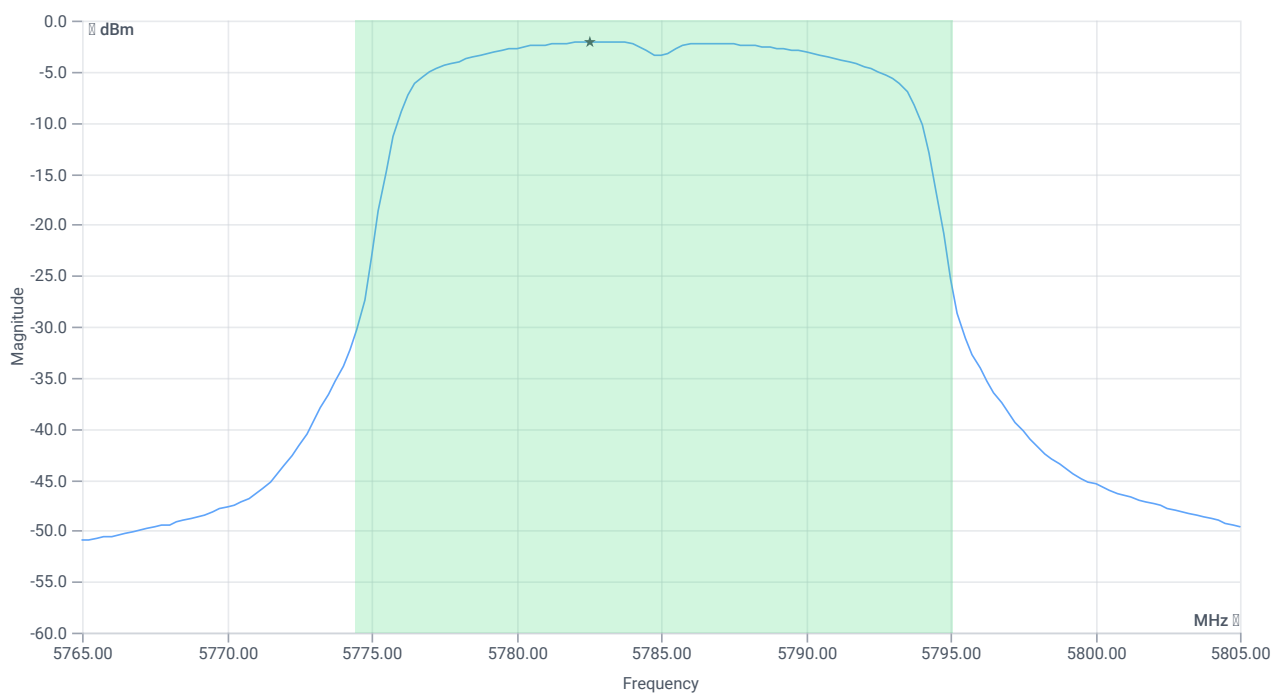
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 20.6      | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5774.4400 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5795.0400 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.20   12.84   20   |
| Start [MHz]   Stop [MHz]                             | 5765.000   5805.000  |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



## RESULT

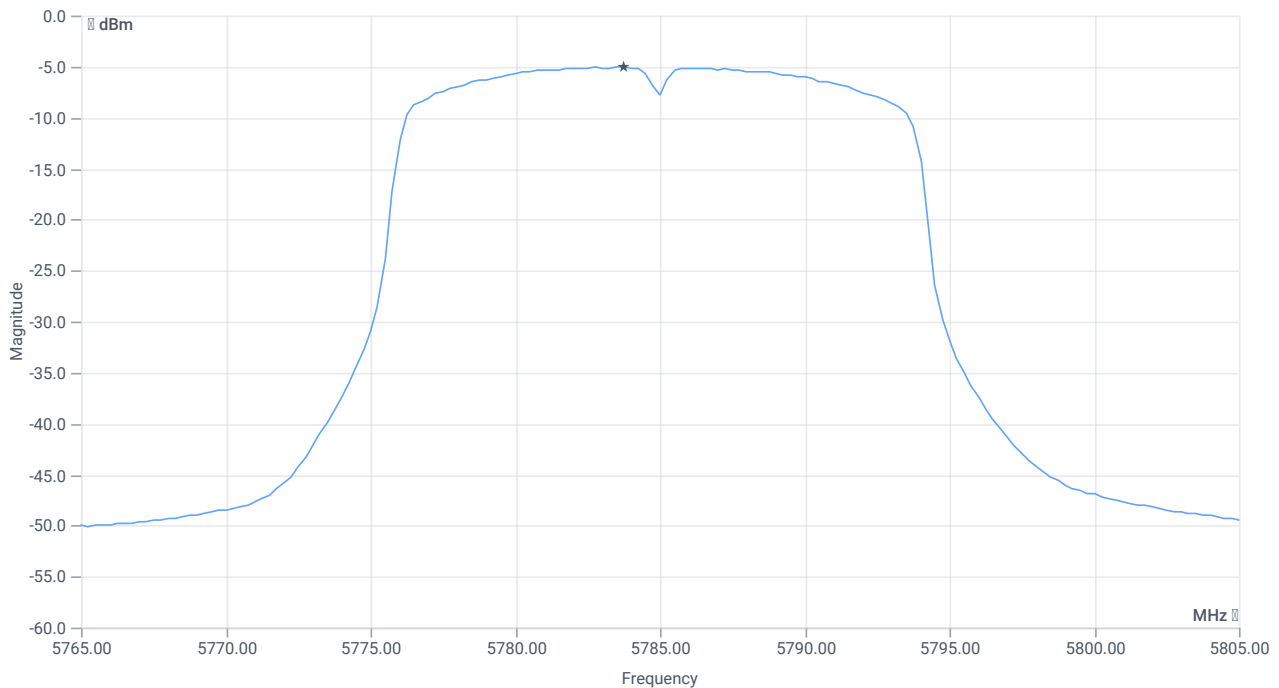
### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                        | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 9.07     | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.4      | dB   | INFO    |
| LIMIT absolute:                    |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 9.47     | dBm  | PASS    |
| LIMIT: 11 dBm + 10 log 20.6        |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 24.14       | 9.47     | dBm  | na      |

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.20   12.84   25   |
| Start [MHz]   Stop [MHz]                             | 5765.000   5805.000  |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



## RESULT

### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                              | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         | ---         | -5.09    | dBm/0.5MHz | INFO    |
| Duty cycle correction                    | ---         | ---         | 0.4      | dB         | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -4.69    | dBm/0.5MHz | PASS    |

### Verdict

PASS

# ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

## References

|                                               |                                                           |
|-----------------------------------------------|-----------------------------------------------------------|
| TC start                                      | 11.03.2025 10:21:00                                       |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                 |
| System version                                | 5.1.6.0                                                   |
| Standard   Version                            | ISED RSS247   NI                                          |
| Method                                        |                                                           |
| Description                                   | ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3 |
| Information                                   |                                                           |

## EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

## Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

## Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | True   Freq [MHz] 5785                    |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5785 MHz

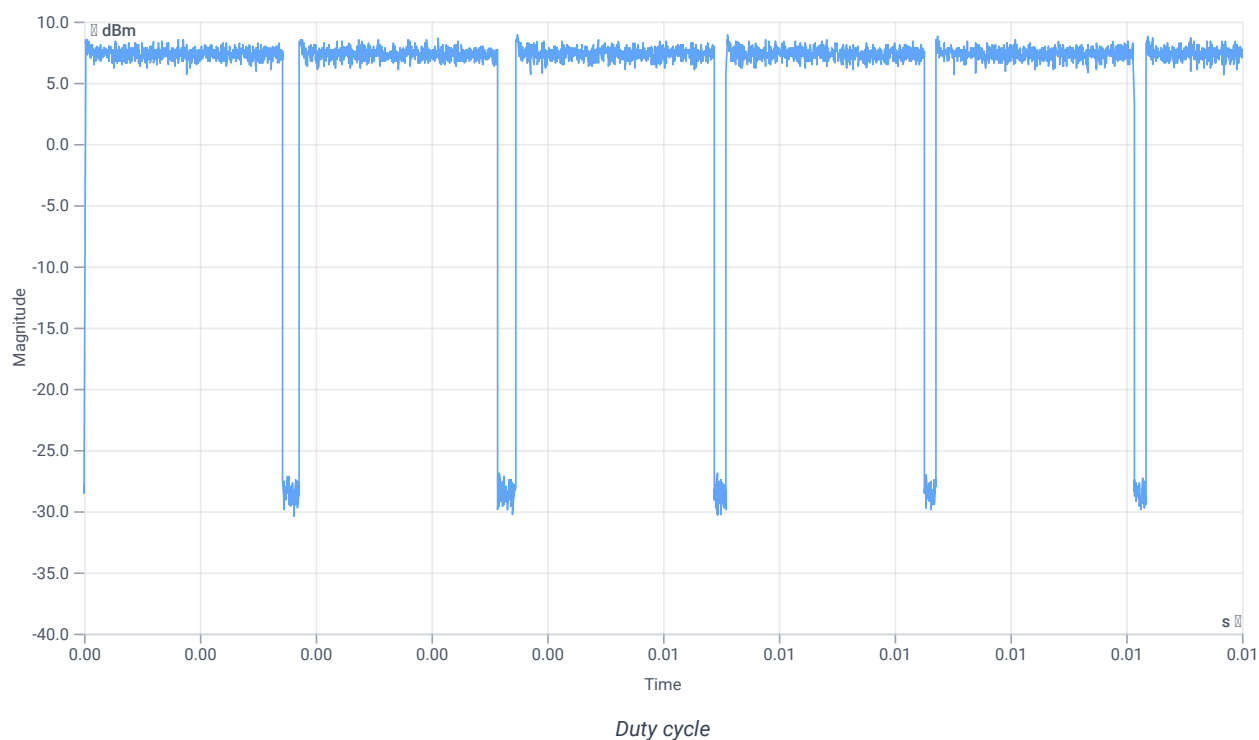
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 7.41     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5786.600 | MHz  | INFO    |

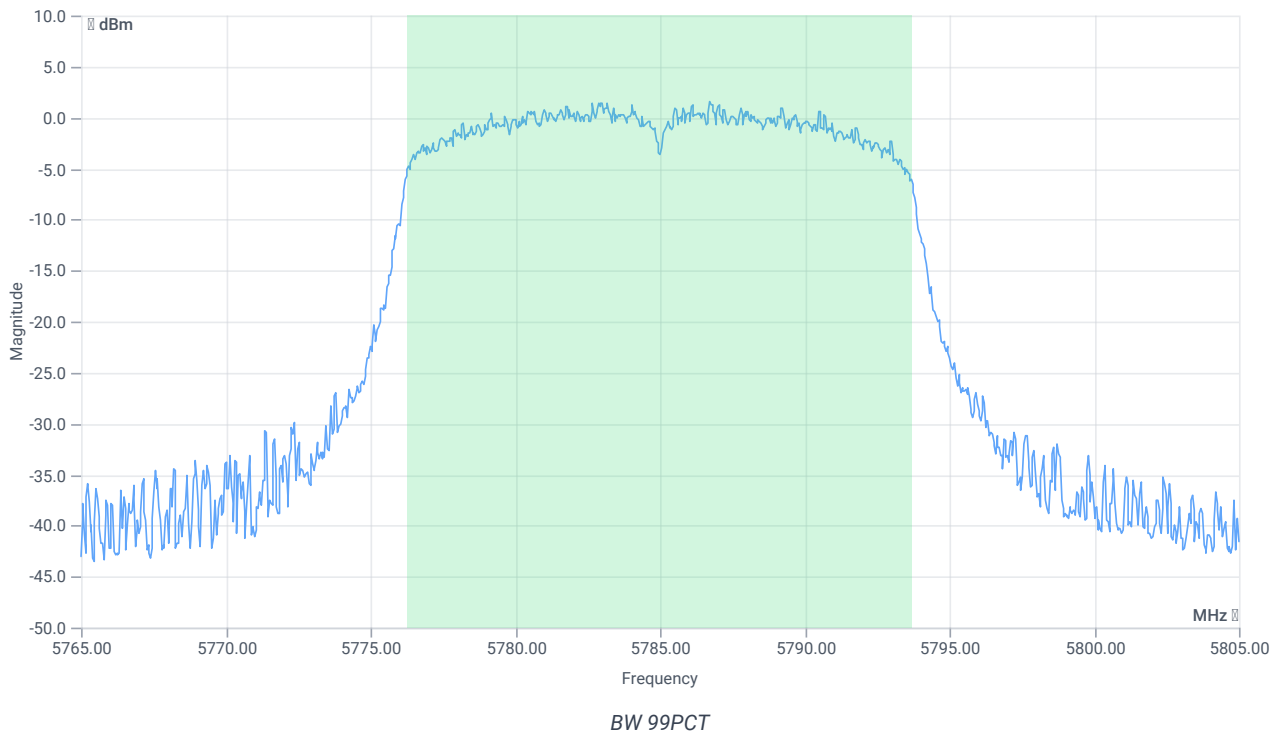
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 4    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.945    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.246    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.913    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.395    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 1.708    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.1      | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.162    | ms   | INFO    |



## Evaluation bandwidth



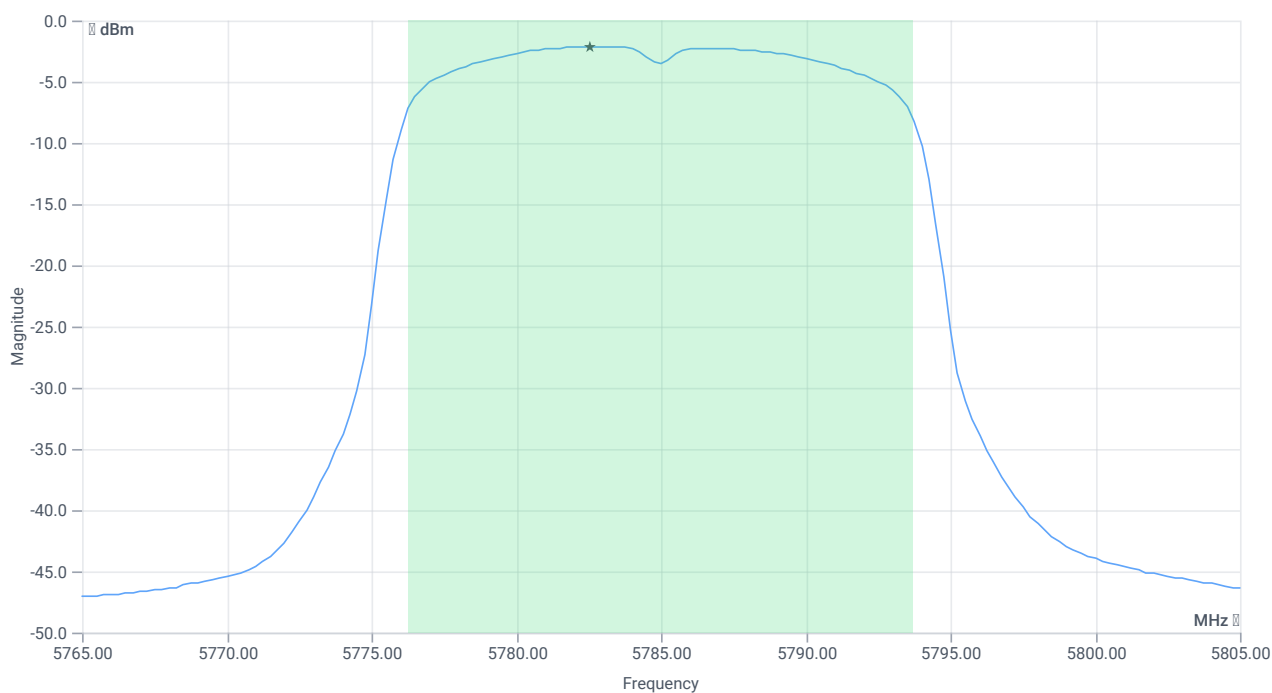
## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 17.423    | MHz  | INFO    |
| T1 99%        | ---         | ---         | 5776.2488 | MHz  | INFO    |
| T2 99%        | ---         | ---         | 5793.6713 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.41   12.84   25   |
| Start [MHz]   Stop [MHz]                             | 5765.000   5805.000  |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |

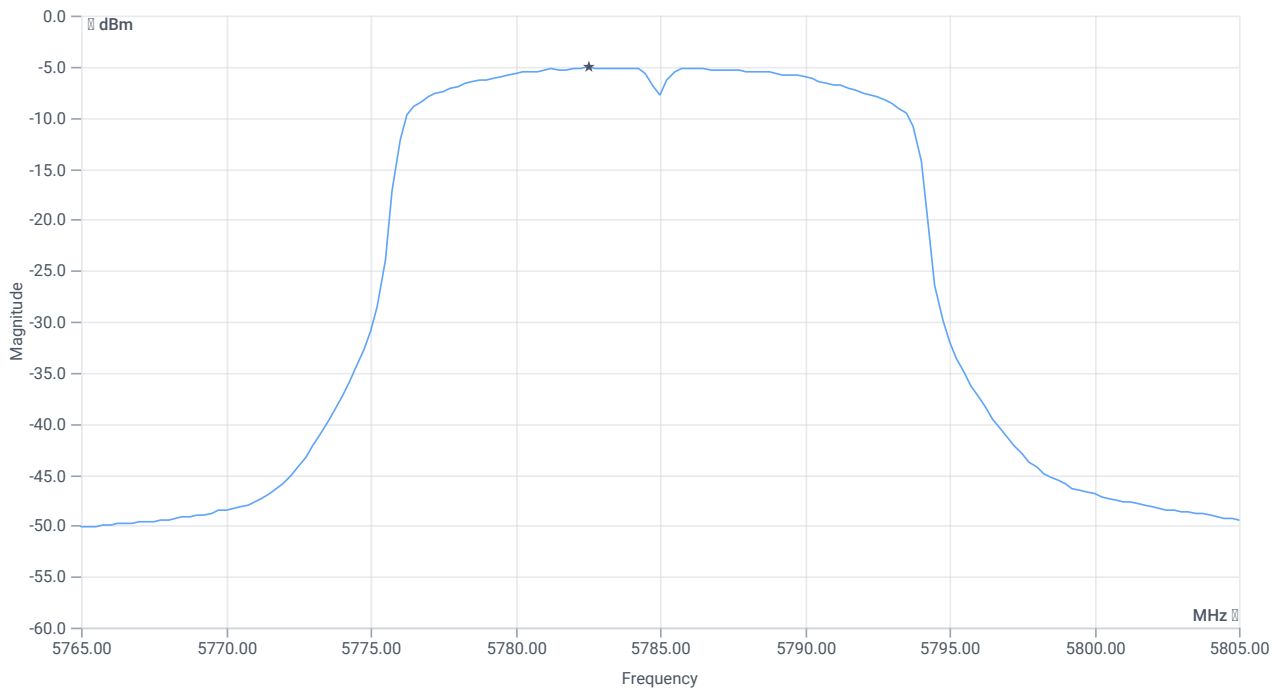


## RESULT

| DESCRIPTION                        | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 9        | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.4      | dB   | INFO    |
| LIMIT absolute cond                |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 9.4      | dBm  | PASS    |

## READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.41   12.84   25   |
| Start [MHz]   Stop [MHz]                             | 5765.000   5805.000  |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



## RESULT

| DESCRIPTION                              | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT       | VERDICT |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         |             | -5.1     | dBm/0.5MHz | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -4.7     | dBm/0.5MHz | PASS    |

## Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx n-HT20 mode U-NII-3

### References

|                                               |                                                     |
|-----------------------------------------------|-----------------------------------------------------|
| TC start                                      | 11.03.2025 10:21:48                                 |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                           |
| System version                                | 5.1.6.0                                             |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                        |
| Method                                        | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN    |
| Description                                   | FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-3 |
| Information                                   |                                                     |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | True   Freq [MHz] 5785                    |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

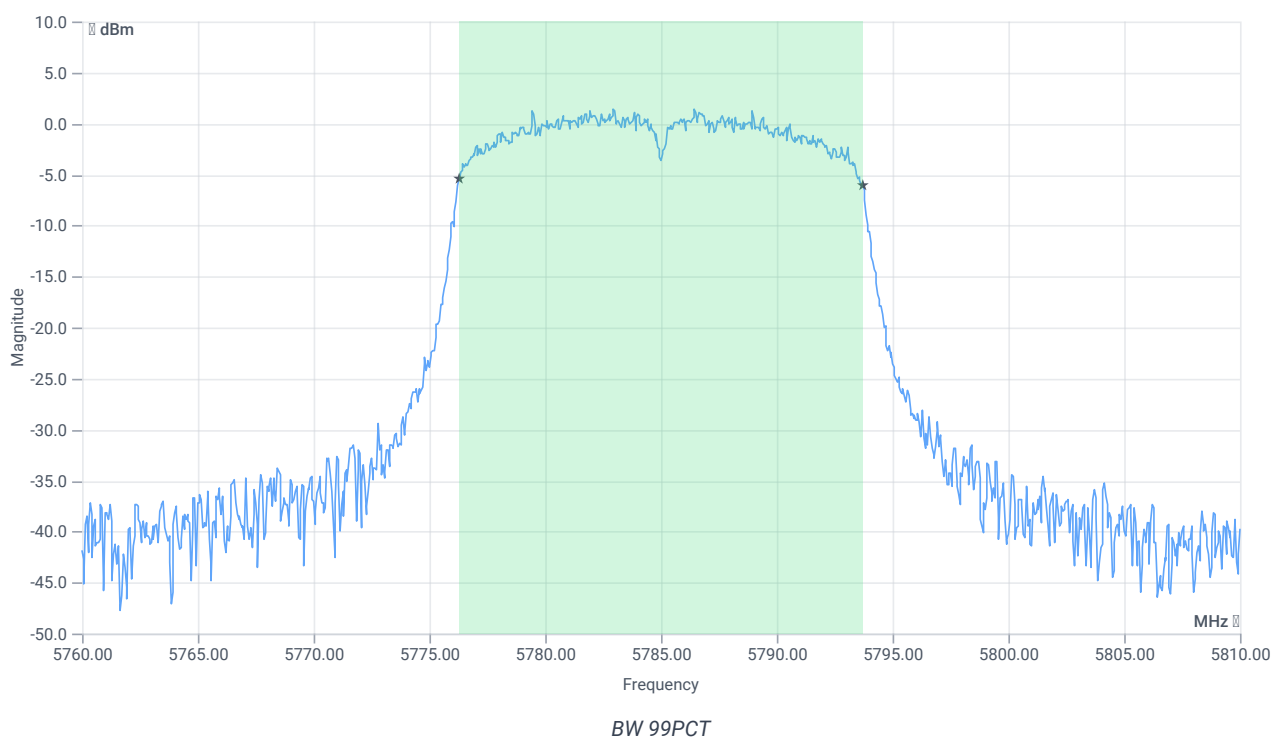
## Test at TX 5785 MHz

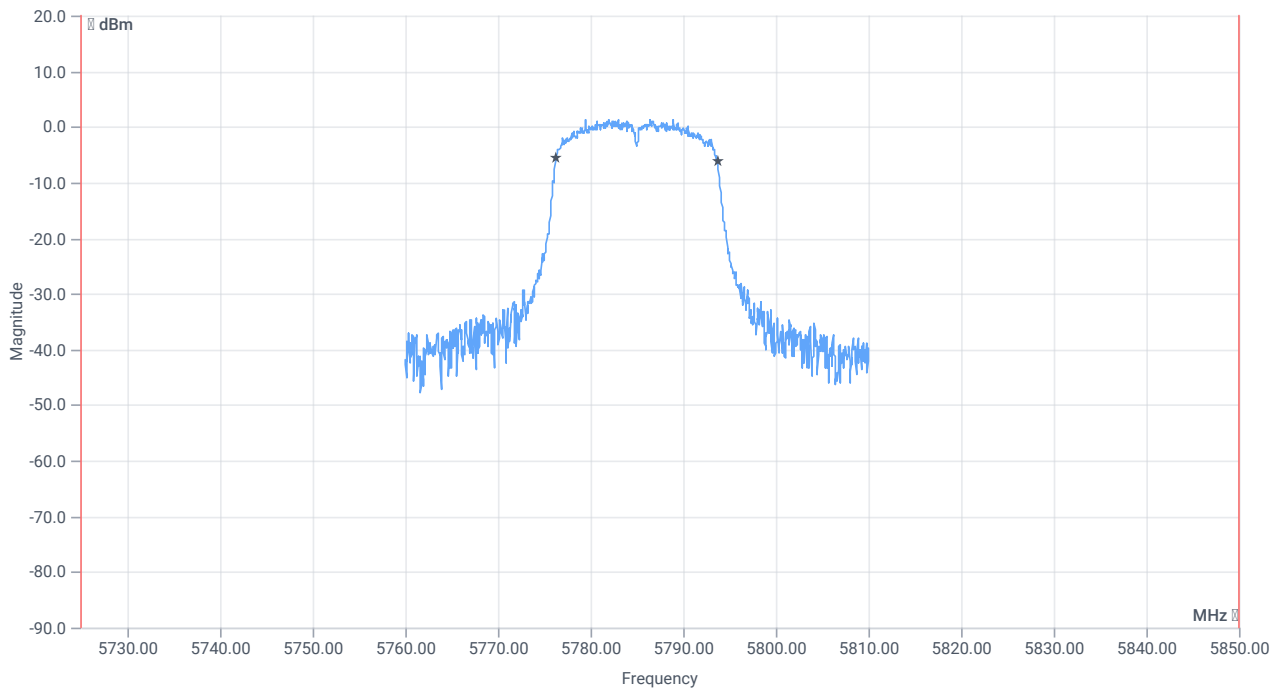
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.33     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5782.400 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 14.33   12.84   20    |
| Start [MHz]   Stop [MHz]                             | 5760.000   5810.000   |
| RBW [MHz]   VBW [MHz]                                | 0.300000   1.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

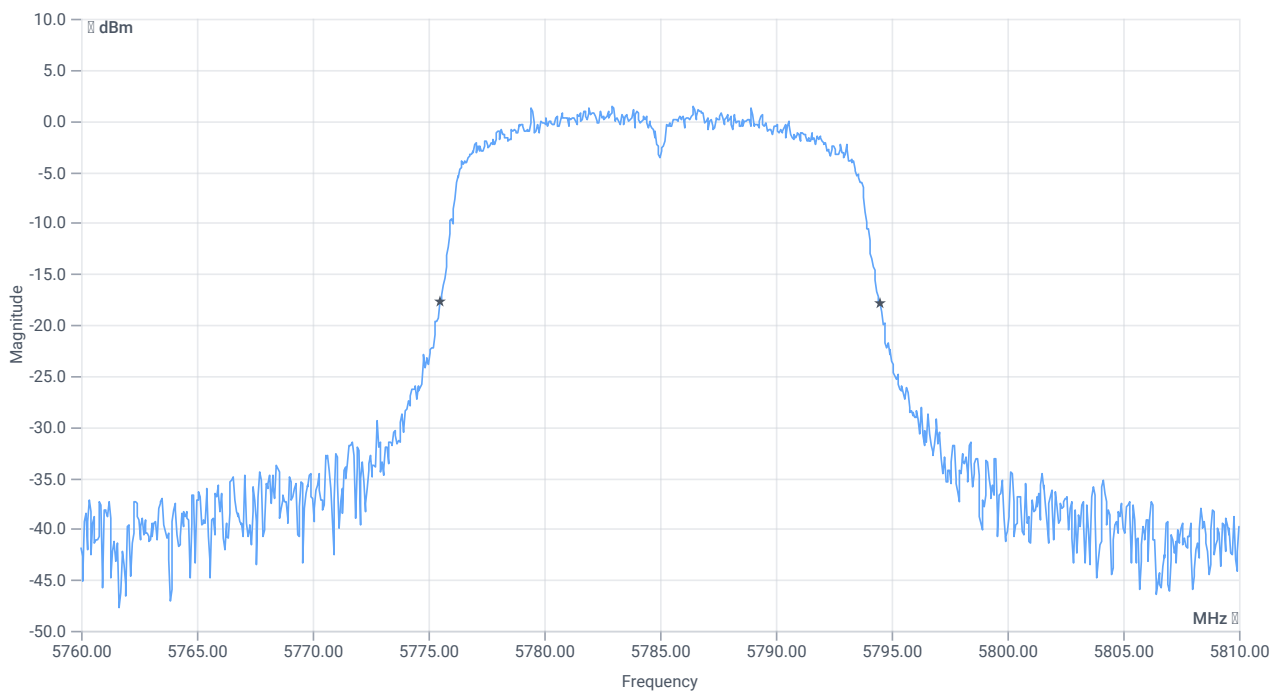




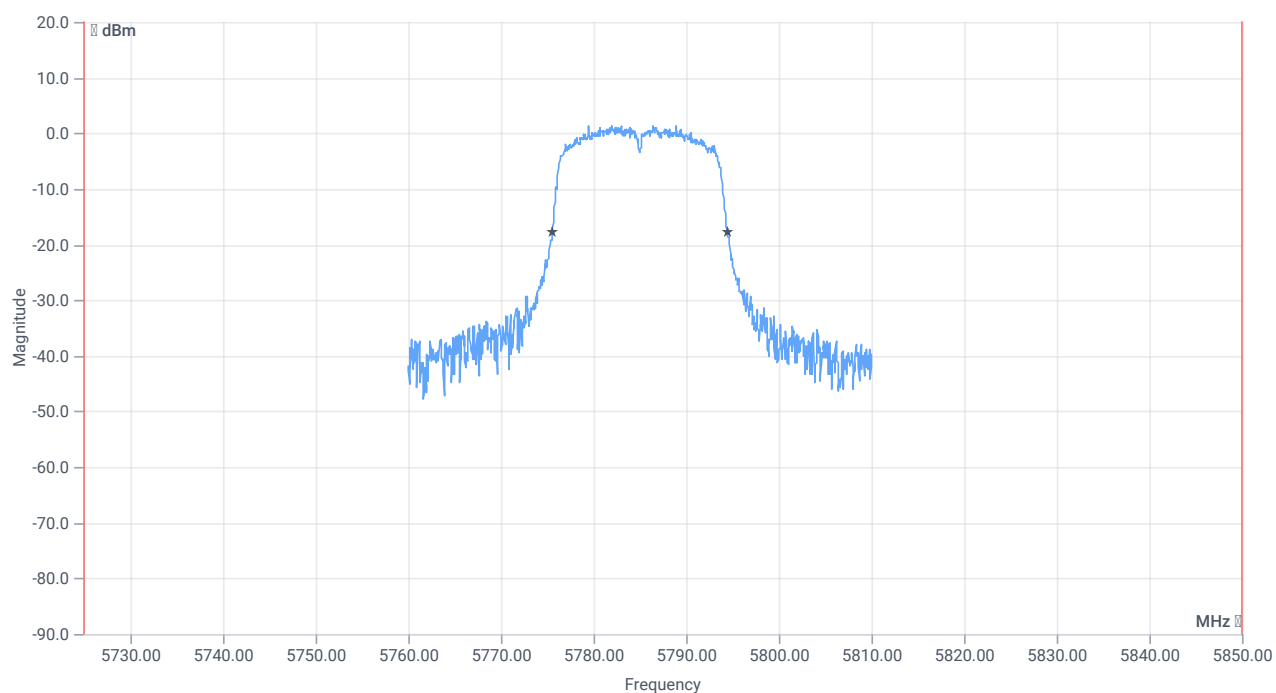
*BW within band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 17.433    | MHz  | INFO    |
| T1 99%        | 5725.000000 | ---         | 5776.2587 | MHz  | PASS    |
| T2 99%        | ---         | 5850.000000 | 5793.6913 | MHz  | PASS    |



BW 20dB



BW within band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 19        | MHz  | INFO    |
| T1 20dB        | 5725.000000 | ---         | 5775.5000 | MHz  | PASS    |
| T2 20dB        | ---         | 5850.000000 | 5794.5000 | MHz  | PASS    |

Verdict

PASS

## FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3

### References

|                                               |                                                                 |
|-----------------------------------------------|-----------------------------------------------------------------|
| TC start                                      | 11.03.2025 10:22:20                                             |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                       |
| System version                                | 5.1.6.0                                                         |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                                    |
| Method                                        | KDB789033 D02, C.2.                                             |
| Description                                   | FCC 15.407 Min Emission Bandwidth - WLAN5Gx n-HT20 mode U-NII-3 |
| Information                                   |                                                                 |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | True   Freq [MHz] 5785                    |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

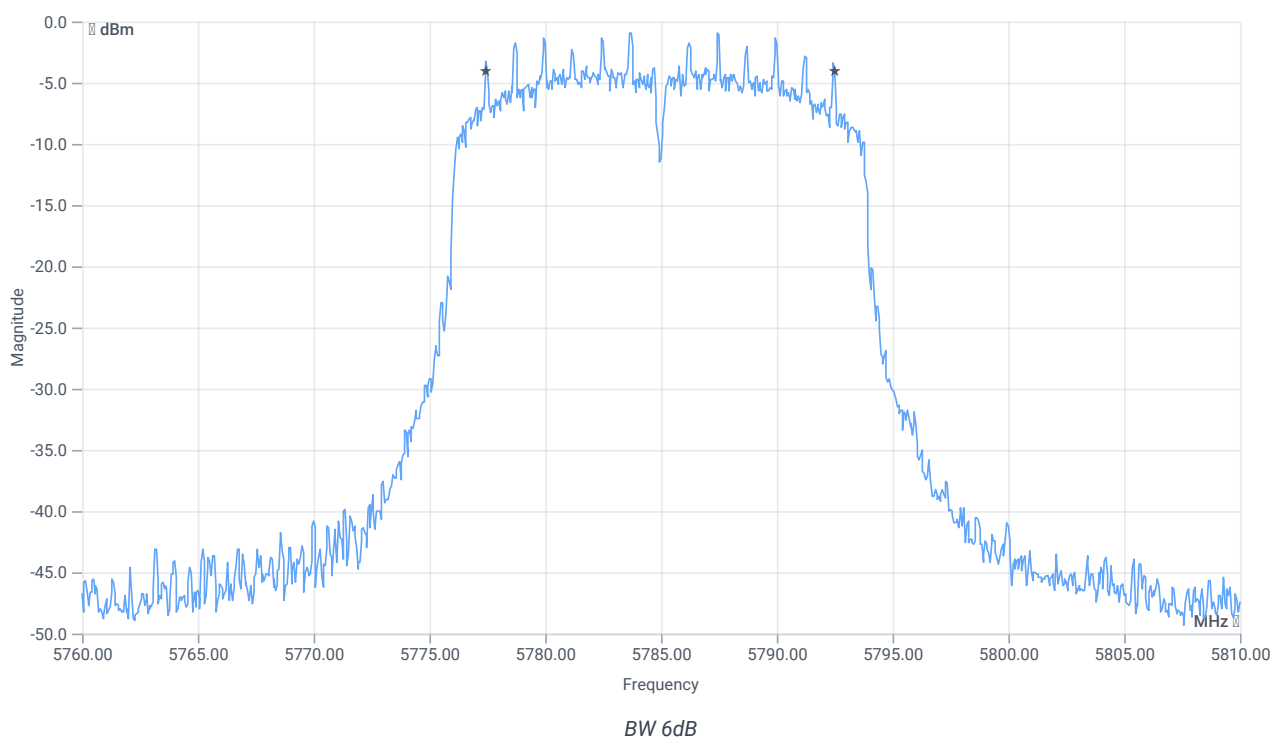
## Test at TX 5785 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.71     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5780.600 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.71   12.84   25    |
| Start [MHz]   Stop [MHz]                             | 5760.000   5810.000   |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 2   1500   1001   SWE |



### RESULT

| DESCRIPTION     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------|-------------|-------------|----------|------|---------|
| Bandwidth (6dB) | 0.500       | ---         | 15.1     | MHz  | PASS    |

#### Verdict

PASS

## FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx n-HT20 mode U-NII-3

### References

|                                               |                                                        |
|-----------------------------------------------|--------------------------------------------------------|
| TC start                                      | 11.03.2025 10:23:08                                    |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                              |
| System version                                | 5.1.6.0                                                |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                           |
| Method                                        | NI                                                     |
| Description                                   | FCC 15.407 Emission mask - WLAN5Gx n-HT20 mode U-NII-3 |
| Information                                   |                                                        |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | True   Freq [MHz] 5785                    |
| Frequency high to test                           | False   Freq [MHz] 5825                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5785 MHz

Number of antenna ports: 1

reduction of limit due to number of antenna ports [dB]: 0

RESULT: Reference power cond.

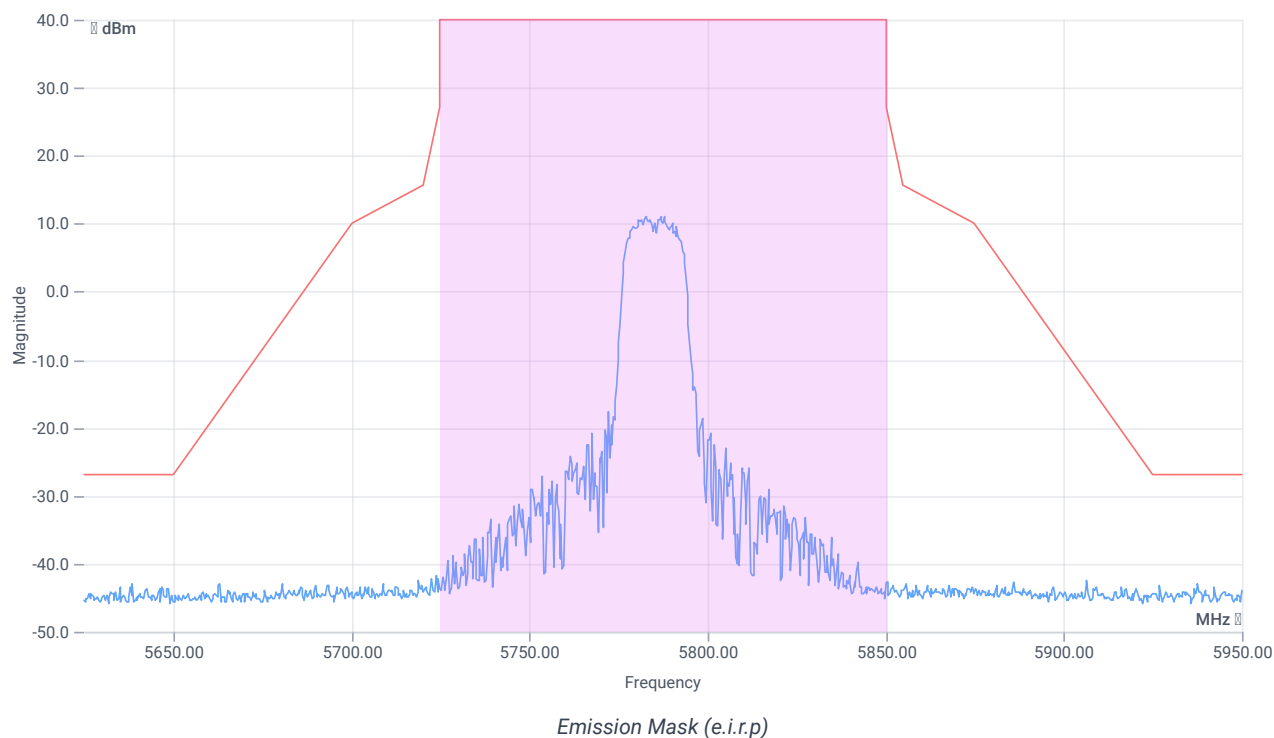
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.71     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5783.800 | MHz  | INFO    |

## Antenna gain

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Considered antenna gain [dBi]: | 3.4 / max found in range 5625 to 5950 MHz |
|--------------------------------|-------------------------------------------|

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 9.71   12.84   15     |
| Start [MHz]   Stop [MHz]                             | 5625.000   5950.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |



## RESULT

| DESCRIPTION                                                           | LOWER LIMIT | UPPER LIMIT | MEASURED                                                               | UNIT | VERDICT |
|-----------------------------------------------------------------------|-------------|-------------|------------------------------------------------------------------------|------|---------|
| cetecom advanced GmbH<br>Untertürkheimer Str. 6-10, 66117 Saarbrücken |             |             | Document No. 1-8801-24-01-18_TR1-A201-R1<br>Release 1 - Page 98 of 175 |      |         |

Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

### References

|                                               |                                                                 |
|-----------------------------------------------|-----------------------------------------------------------------|
| TC start                                      | 11.03.2025 10:27:51                                             |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                       |
| System version                                | 5.1.6.0                                                         |
| Standard   Version                            | FCC 15.407   NI                                                 |
| Method                                        | KDB789033 D02, F., E.2.e.                                       |
| Description                                   | FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3 |
| Information                                   |                                                                 |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | True   Freq [MHz] 5825                    |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5825 MHz

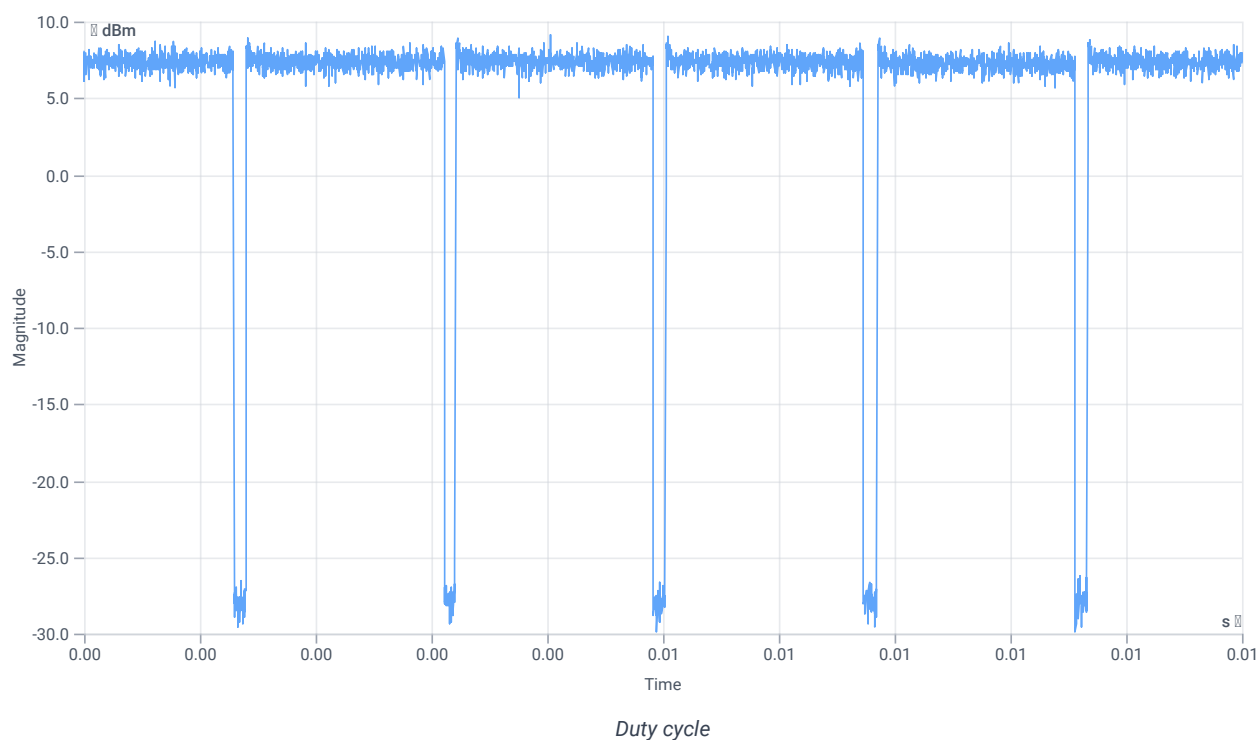
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.73     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5823.400 | MHz  | INFO    |

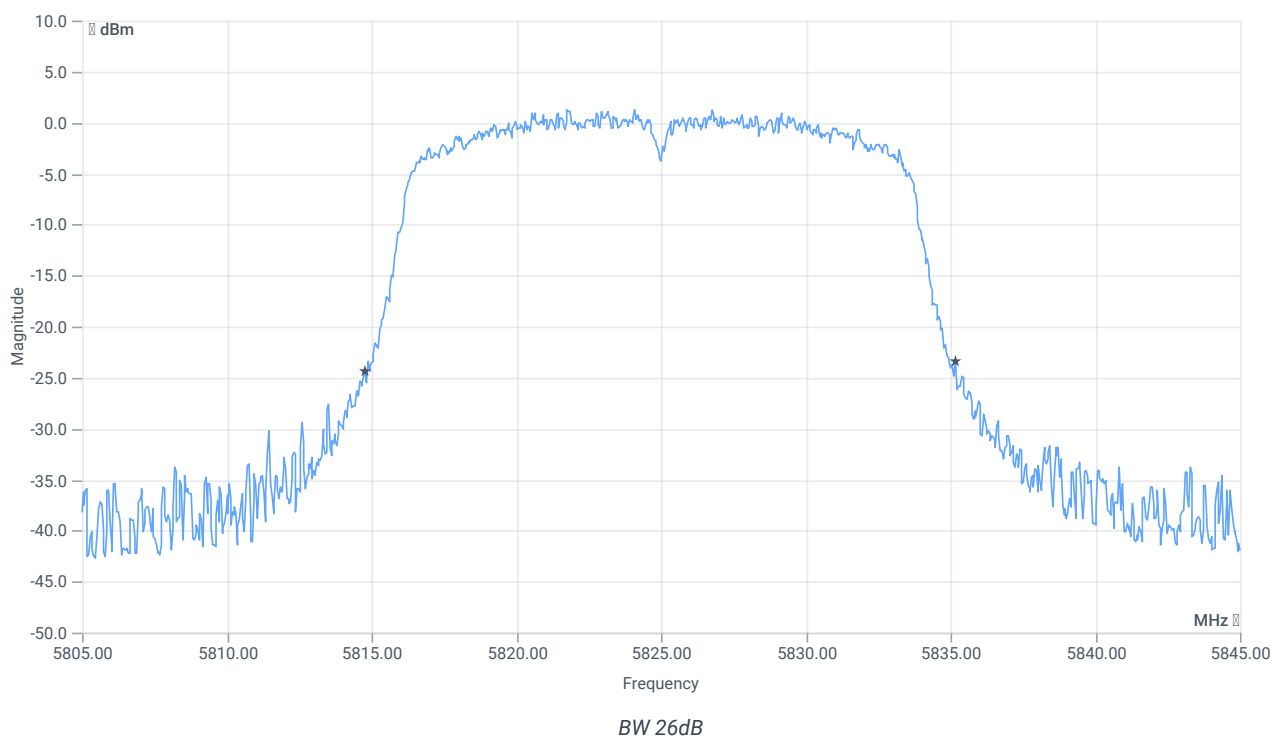
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 4    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.945    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.246    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.934    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.297    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 1.708    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.1      | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.12     | ms   | INFO    |



## Evaluation bandwidth



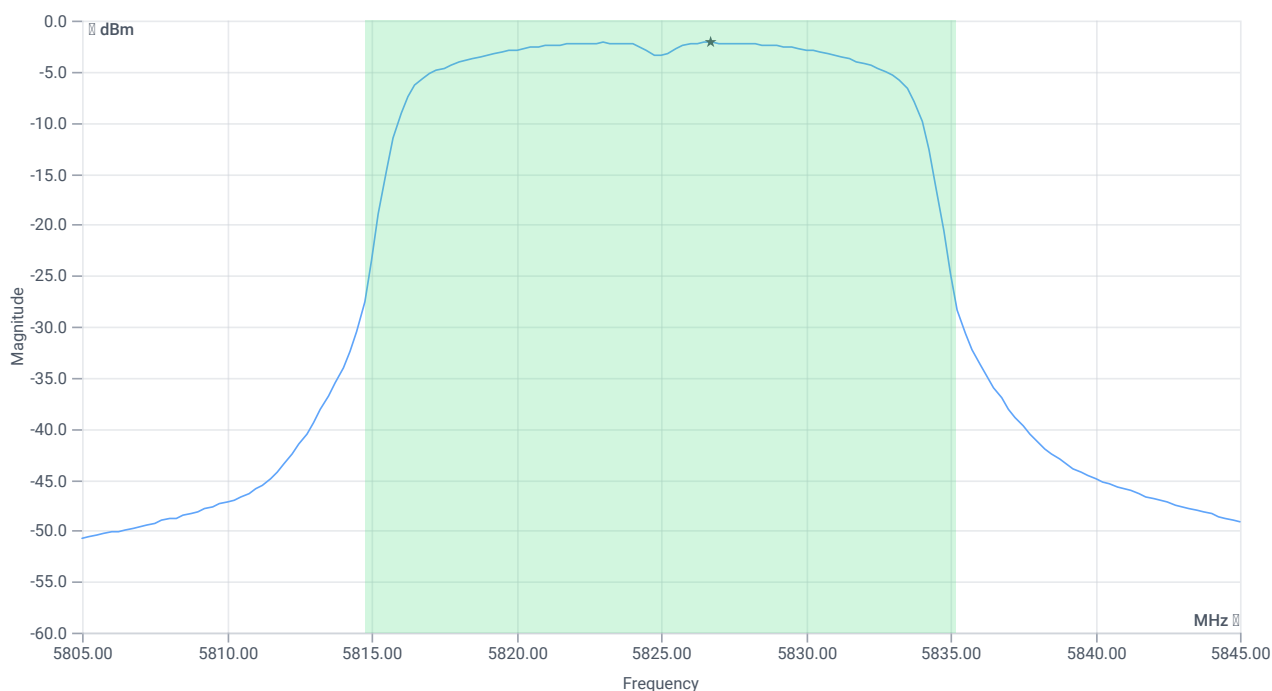
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 20.44     | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5814.7600 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5835.2000 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.73   13.38   20   |
| Start [MHz]   Stop [MHz]                             | 5805.000   5845.000  |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



Max OP and PSD

## RESULT

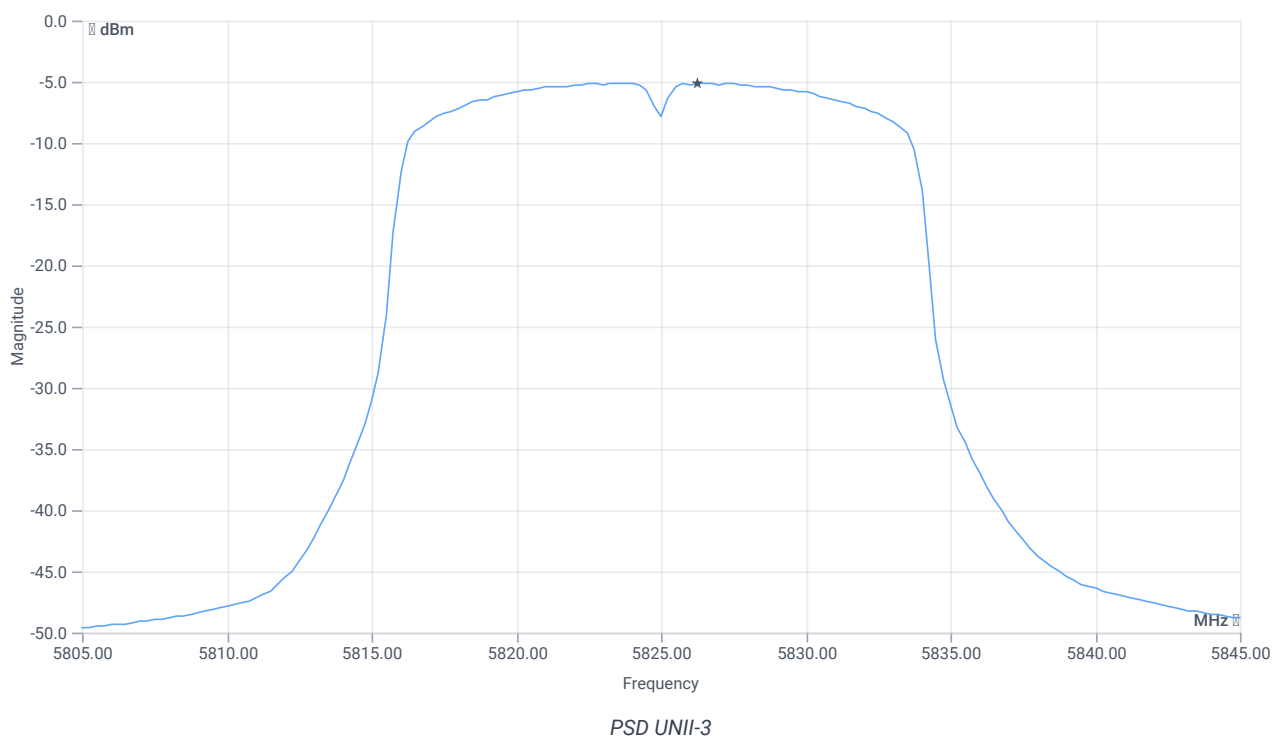
### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                        | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 9.09     | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.3      | dB   | INFO    |
| LIMIT absolute:                    |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 9.39     | dBm  | PASS    |
| LIMIT: 11 dBm + 10 log 20.44       |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 24.1        | 9.39     | dBm  | na      |

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.73   13.38   25   |
| Start [MHz]   Stop [MHz]                             | 5805.000   5845.000  |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



## RESULT

### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                              | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         | ---         | -5.16    | dBm/0.5MHz | INFO    |
| Duty cycle correction                    | ---         | ---         | 0.3      | dB         | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -4.86    | dBm/0.5MHz | PASS    |

### Verdict

PASS

# ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

## References

|                                               |                                                           |
|-----------------------------------------------|-----------------------------------------------------------|
| TC start                                      | 11.03.2025 10:28:36                                       |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                 |
| System version                                | 5.1.6.0                                                   |
| Standard   Version                            | ISED RSS247   NI                                          |
| Method                                        |                                                           |
| Description                                   | ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3 |
| Information                                   |                                                           |

## EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

## Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

## Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | True   Freq [MHz] 5825                    |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5825 MHz

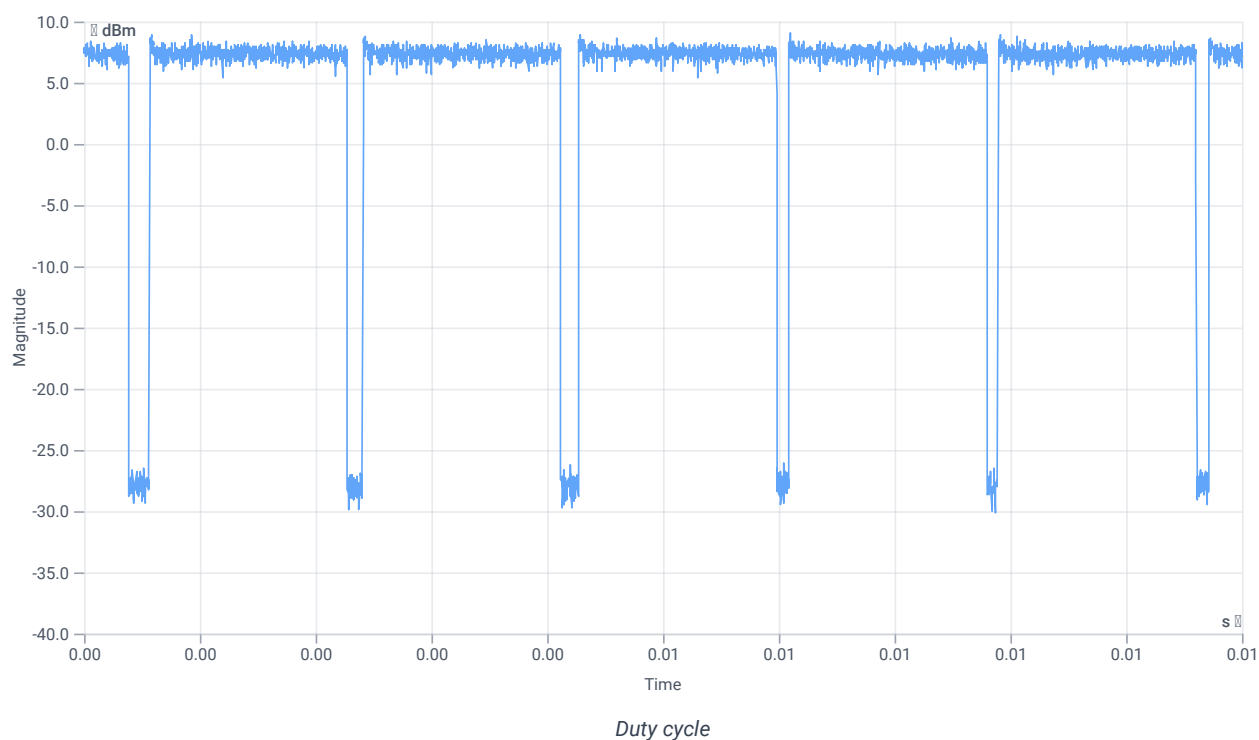
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.54     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5826.400 | MHz  | INFO    |

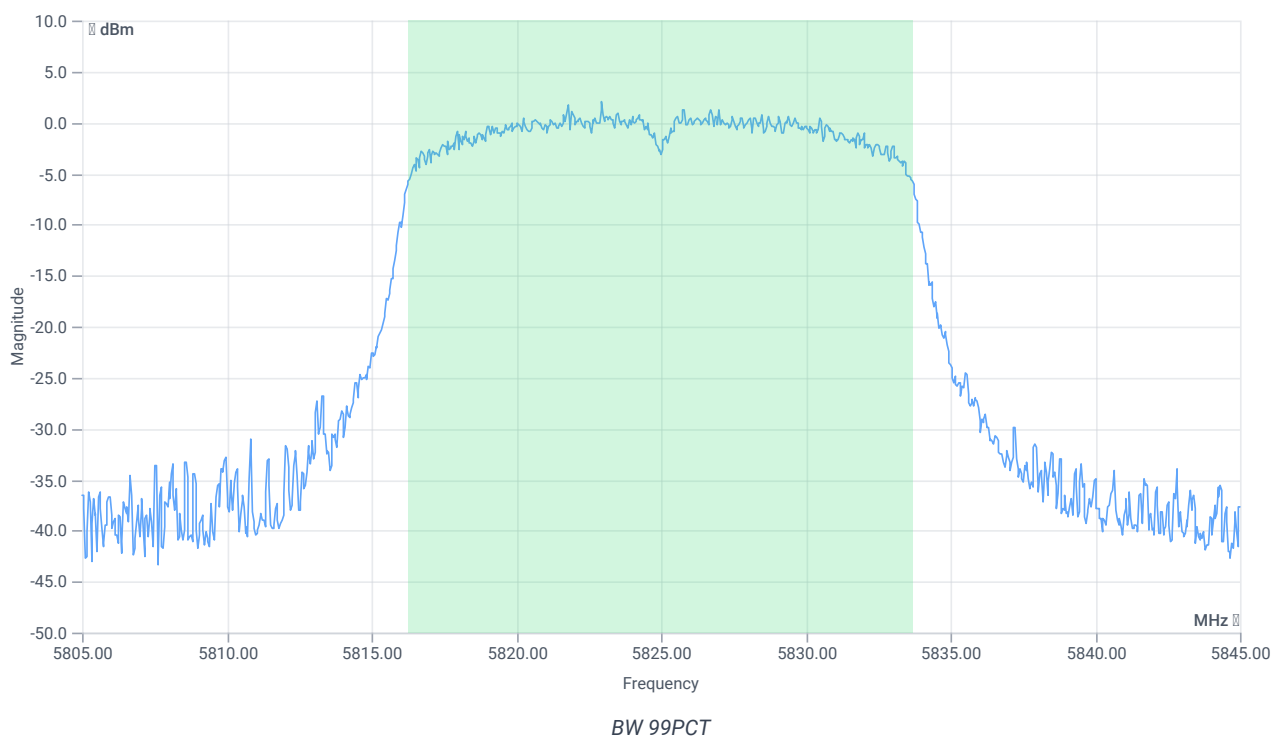
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 5    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.943    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.255    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.917    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.376    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 1.708    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.103    | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.155    | ms   | INFO    |



## Evaluation bandwidth



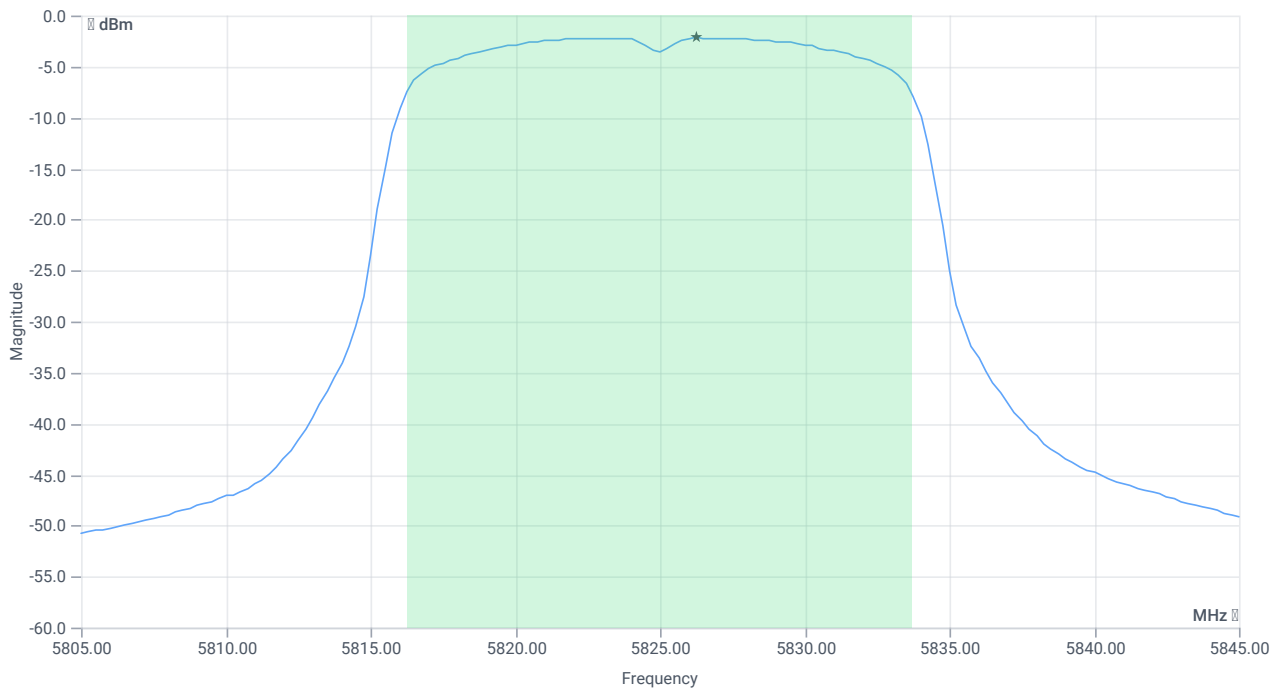
## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 17.423    | MHz  | INFO    |
| T1 99%        | ---         | ---         | 5816.2488 | MHz  | INFO    |
| T2 99%        | ---         | ---         | 5833.6713 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.54   13.38   20   |
| Start [MHz]   Stop [MHz]                             | 5805.000   5845.000  |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |

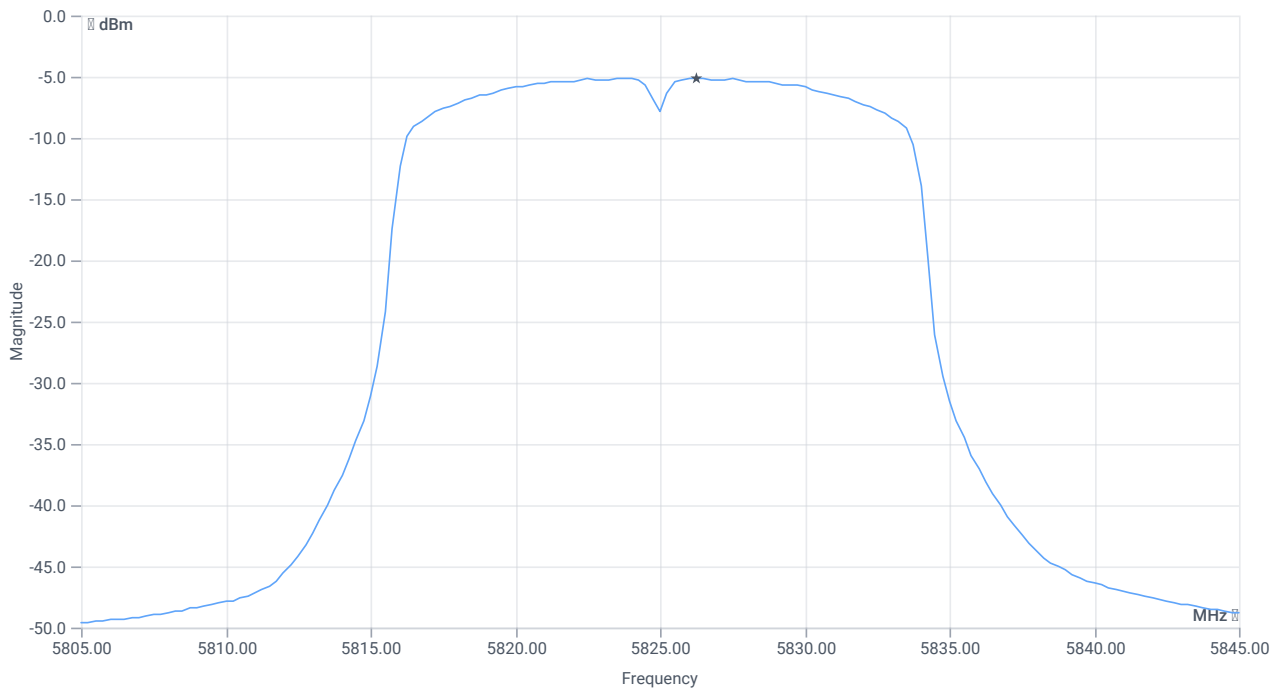


## RESULT

| DESCRIPTION                        | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 9        | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.38     | dB   | INFO    |
| LIMIT absolute cond                |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 9.38     | dBm  | PASS    |

## READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.54   13.38   25   |
| Start [MHz]   Stop [MHz]                             | 5805.000   5845.000  |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



## RESULT

| DESCRIPTION                              | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT       | VERDICT |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         |             | -5.17    | dBm/0.5MHz | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -4.79    | dBm/0.5MHz | PASS    |

Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx n-HT20 mode U-NII-3

### References

|                                               |                                                     |
|-----------------------------------------------|-----------------------------------------------------|
| TC start                                      | 11.03.2025 10:29:23                                 |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                           |
| System version                                | 5.1.6.0                                             |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                        |
| Method                                        | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN    |
| Description                                   | FCC 15.407 Bandwidths - WLAN5Gx n-HT20 mode U-NII-3 |
| Information                                   |                                                     |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | True   Freq [MHz] 5825                    |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

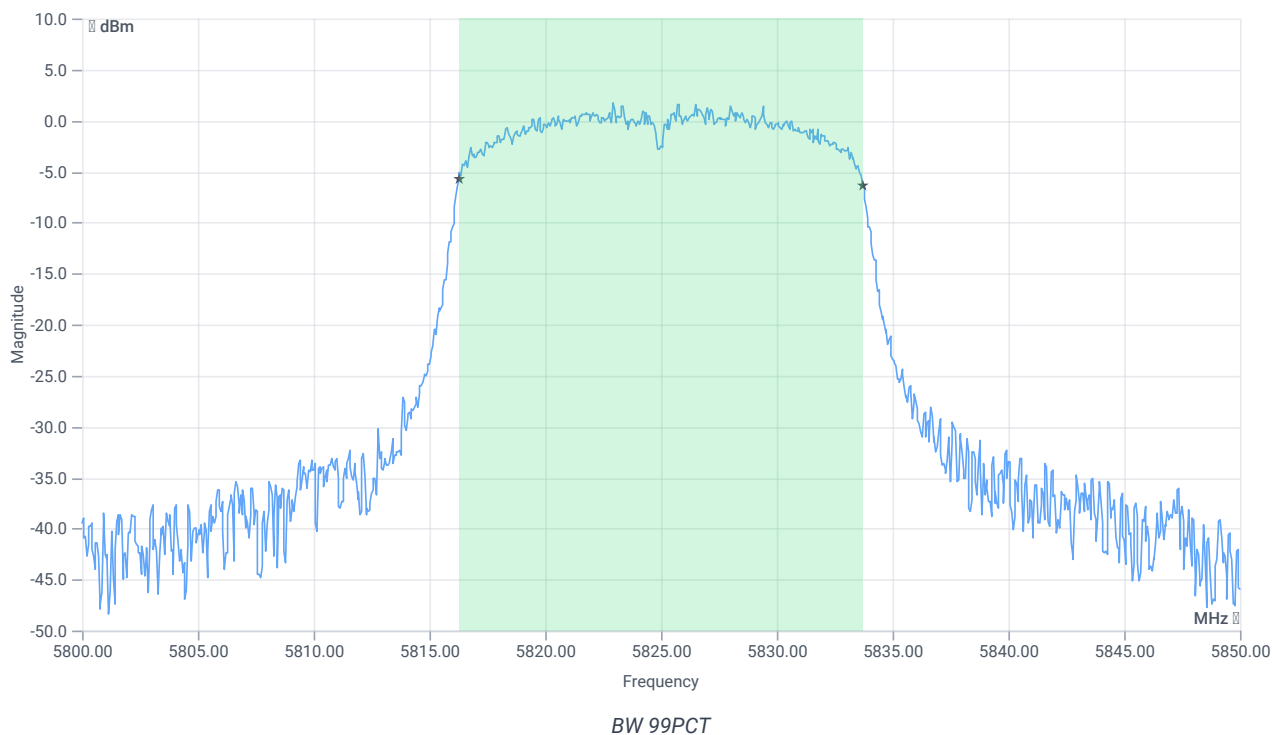
## Test at TX 5825 MHz

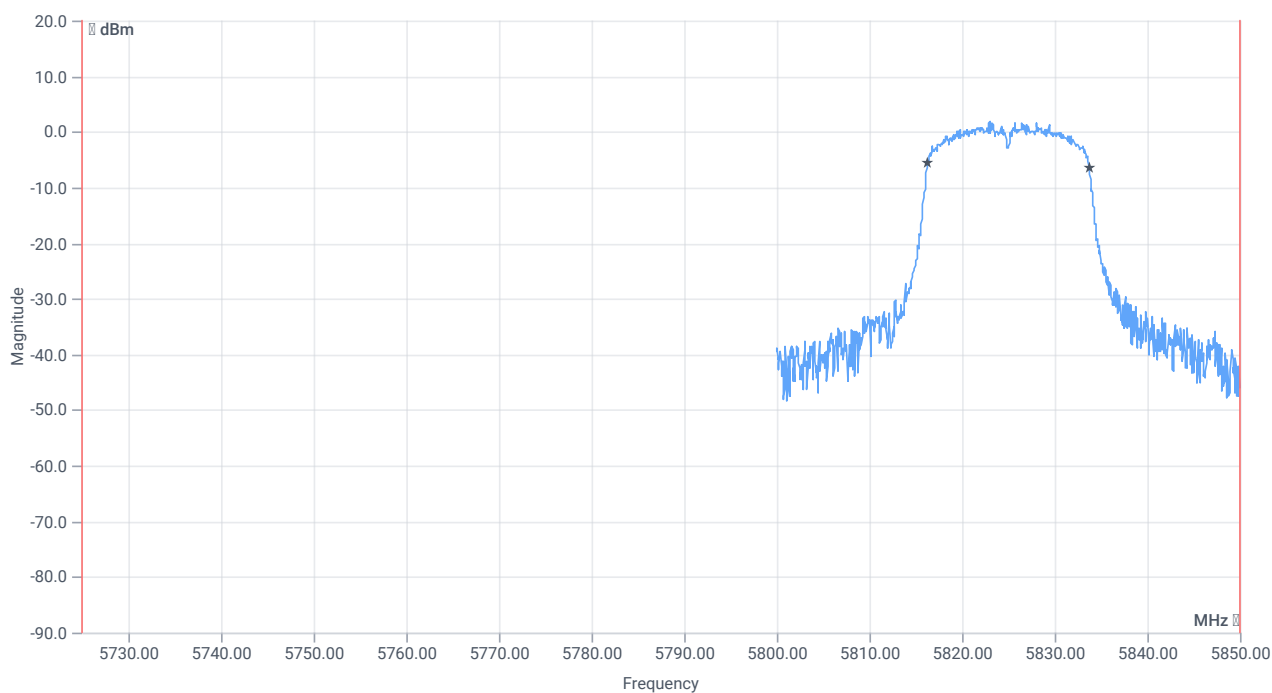
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.79     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5827.200 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 14.79   13.38   20    |
| Start [MHz]   Stop [MHz]                             | 5800.000   5850.000   |
| RBW [MHz]   VBW [MHz]                                | 0.300000   1.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

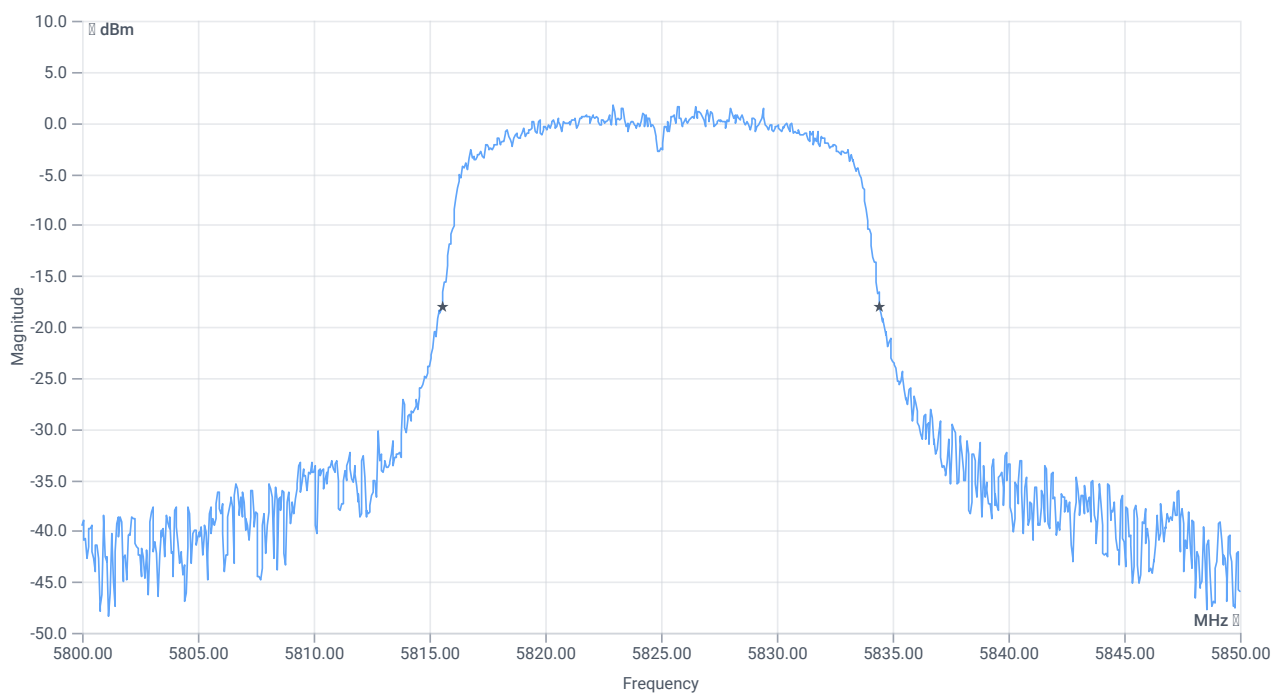




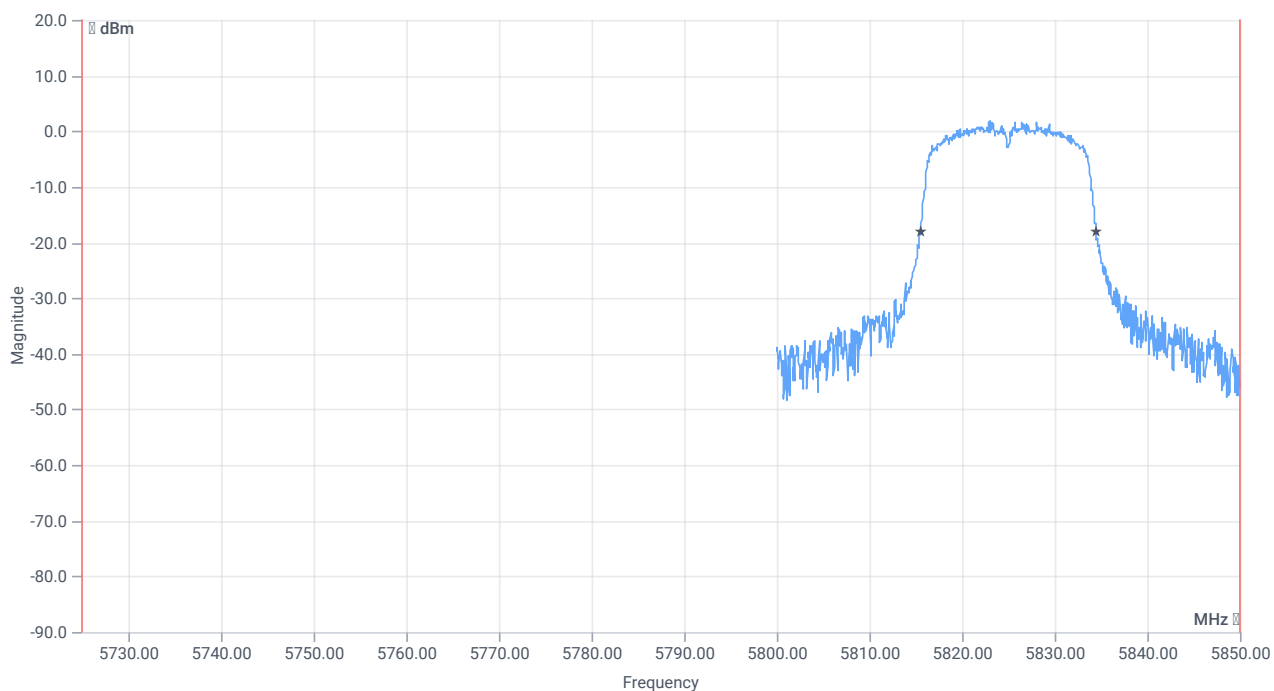
*BW within band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 17.433    | MHz  | INFO    |
| T1 99%        | 5725.000000 | ---         | 5816.2587 | MHz  | PASS    |
| T2 99%        | ---         | 5850.000000 | 5833.6913 | MHz  | PASS    |



BW 20dB



BW within band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 18.9      | MHz  | INFO    |
| T1 20dB        | 5725.000000 | ---         | 5815.5500 | MHz  | PASS    |
| T2 20dB        | ---         | 5850.000000 | 5834.4500 | MHz  | PASS    |

Verdict

PASS

## FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3

### References

|                                               |                                                                 |
|-----------------------------------------------|-----------------------------------------------------------------|
| TC start                                      | 11.03.2025 10:30:01                                             |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                       |
| System version                                | 5.1.6.0                                                         |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                                    |
| Method                                        | KDB789033 D02, C.2.                                             |
| Description                                   | FCC 15.407 Min Emission Bandwidth - WLAN5Gx n-HT20 mode U-NII-3 |
| Information                                   |                                                                 |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | True   Freq [MHz] 5825                    |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

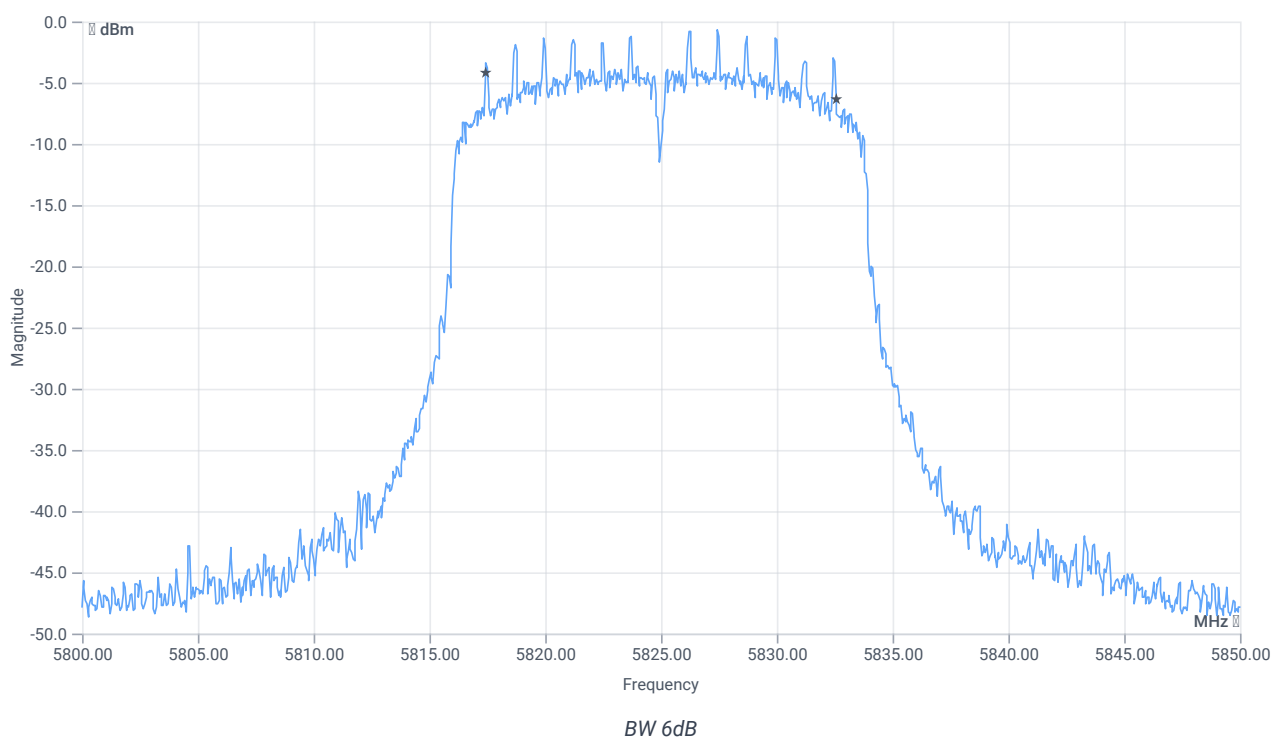
## Test at TX 5825 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.70     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5828.600 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.70   13.38   25    |
| Start [MHz]   Stop [MHz]                             | 5800.000   5850.000   |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 2   1500   1001   SWE |



### RESULT

| DESCRIPTION     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------|-------------|-------------|----------|------|---------|
| Bandwidth (6dB) | 0.500       | ---         | 15.15    | MHz  | PASS    |

#### Verdict

PASS

## FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx n-HT20 mode U-NII-3

### References

|                                               |                                                        |
|-----------------------------------------------|--------------------------------------------------------|
| TC start                                      | 11.03.2025 10:30:38                                    |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                              |
| System version                                | 5.1.6.0                                                |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                           |
| Method                                        | NI                                                     |
| Description                                   | FCC 15.407 Emission mask - WLAN5Gx n-HT20 mode U-NII-3 |
| Information                                   |                                                        |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5745                   |
| Frequency mid to test                            | False   Freq [MHz] 5785                   |
| Frequency high to test                           | True   Freq [MHz] 5825                    |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5825 MHz

Number of antenna ports: 1

reduction of limit due to number of antenna ports [dB]: 0

RESULT: Reference power cond.

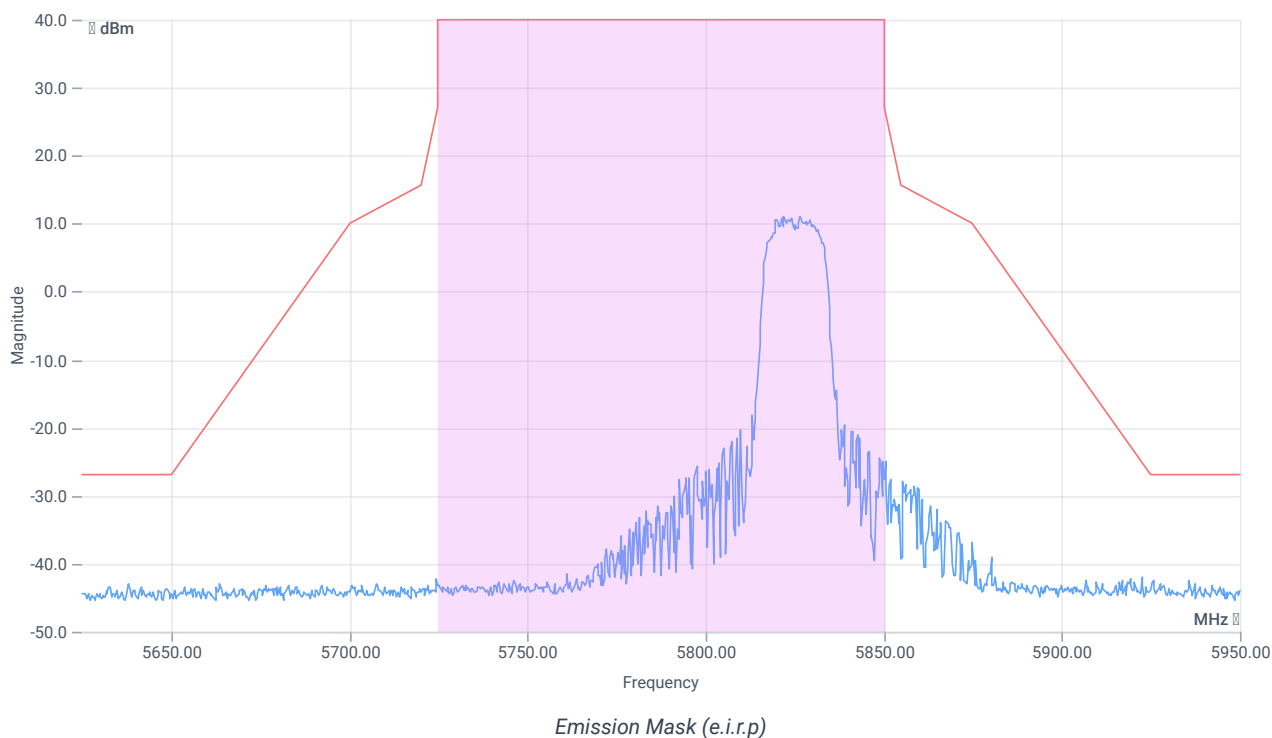
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 6.58     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5820.400 | MHz  | INFO    |

## Antenna gain

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Considered antenna gain [dBi]: | 3.4 / max found in range 5625 to 5950 MHz |
|--------------------------------|-------------------------------------------|

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 9.58   13.38   15     |
| Start [MHz]   Stop [MHz]                             | 5625.000   5950.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |



## RESULT

| DESCRIPTION                                                           | LOWER LIMIT | UPPER LIMIT | MEASURED                                                                | UNIT | VERDICT |
|-----------------------------------------------------------------------|-------------|-------------|-------------------------------------------------------------------------|------|---------|
| cetecom advanced GmbH<br>Untertürkheimer Str. 6-10, 66117 Saarbrücken |             |             |                                                                         |      |         |
|                                                                       |             |             | Document No. 1-8801-24-01-18_TR1-A201-R1<br>Release 1 - Page 117 of 175 |      |         |

Verdict

PASS

# FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3

## References

|                                               |                                                                 |
|-----------------------------------------------|-----------------------------------------------------------------|
| TC start                                      | 11.03.2025 10:43:33                                             |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                       |
| System version                                | 5.1.6.0                                                         |
| Standard   Version                            | FCC 15.407   NI                                                 |
| Method                                        | KDB789033 D02, F., E.2.e.                                       |
| Description                                   | FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-3 |
| Information                                   |                                                                 |

## EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

## Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

## Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT40 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | True   Freq [MHz] 5755                    |
| Frequency mid to test                            | False   Freq [MHz] 0                      |
| Frequency high to test                           | False   Freq [MHz] 5795                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5755 MHz

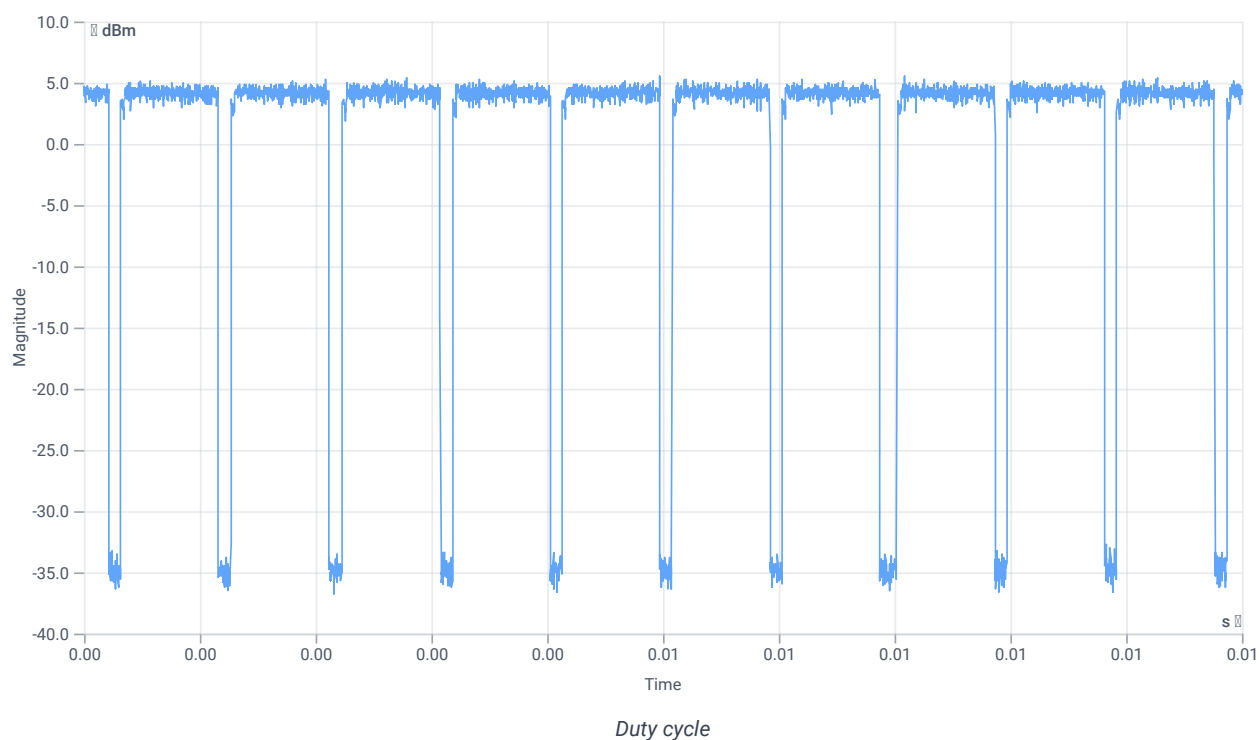
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 3.83     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5763.590 | MHz  | INFO    |

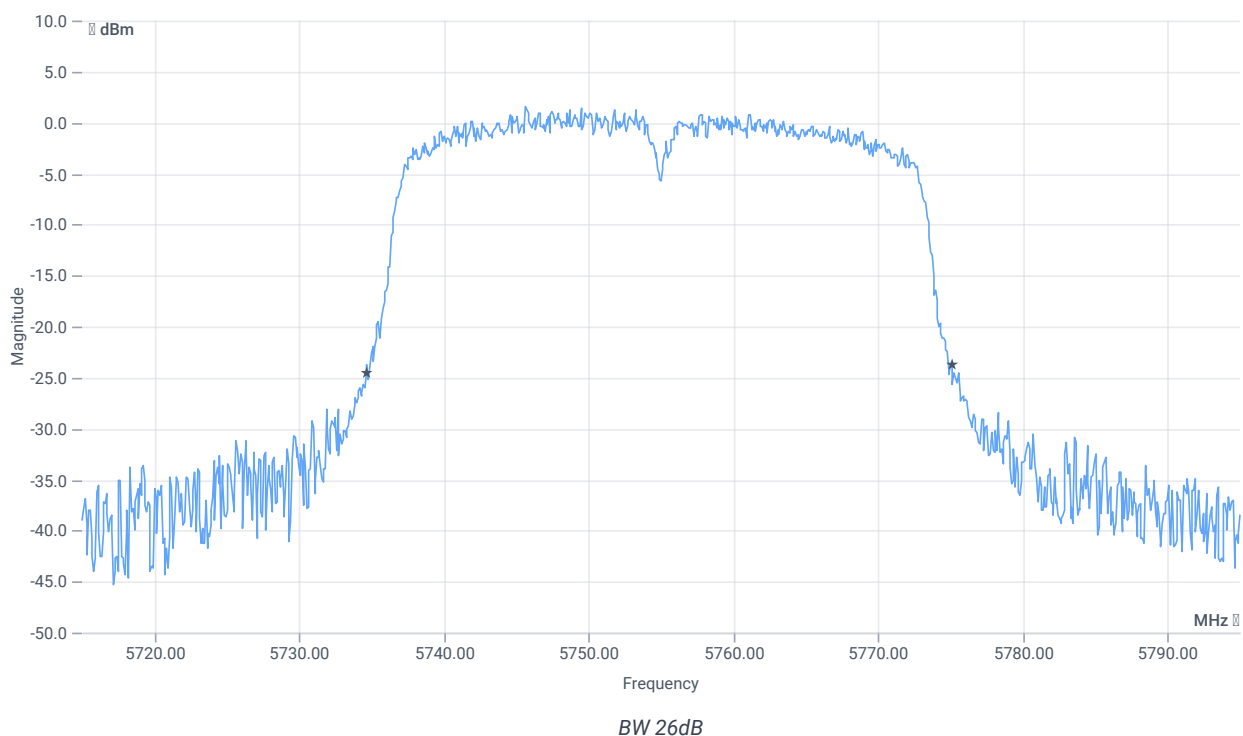
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 10   |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.887    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.521    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.844    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.737    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 0.84     | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.107    | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.155    | ms   | INFO    |



## Evaluation bandwidth



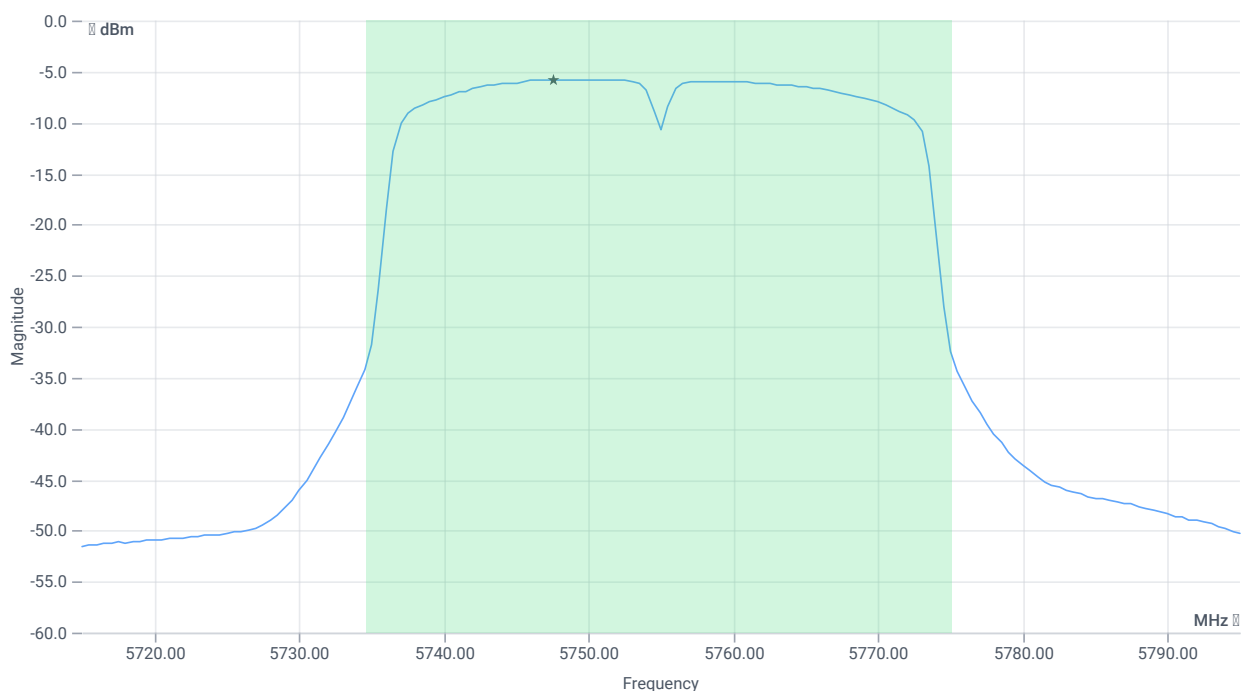
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 40.48     | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5734.6000 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5775.0800 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 15.83   12.58   20   |
| Start [MHz]   Stop [MHz]                             | 5715.000   5795.000  |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



Max OP and PSD

## RESULT

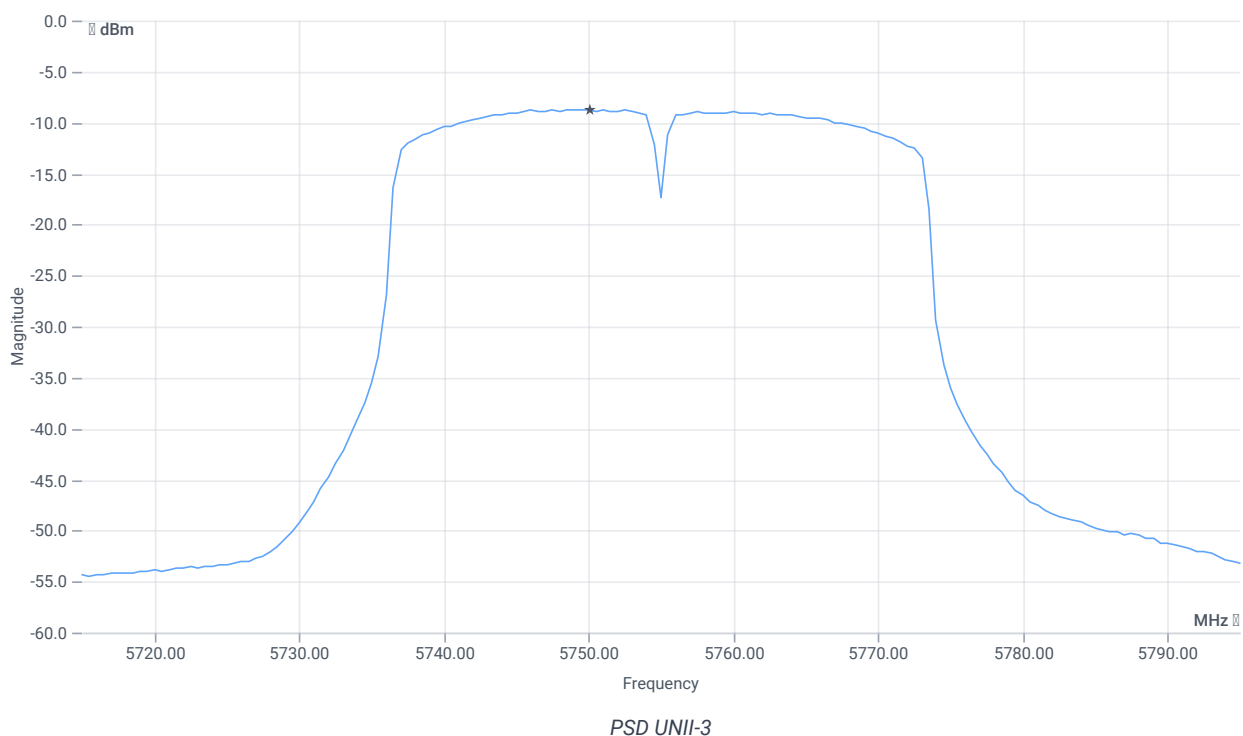
### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                        | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 8.59     | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.74     | dB   | INFO    |
| LIMIT absolute:                    |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 9.33     | dBm  | PASS    |
| LIMIT: 11 dBm + 10 log 40.48       |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 27.07       | 9.33     | dBm  | na      |

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 15.83   12.58   20   |
| Start [MHz]   Stop [MHz]                             | 5715.000   5795.000  |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



## RESULT

### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                              | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         | ---         | -8.71    | dBm/0.5MHz | INFO    |
| Duty cycle correction                    | ---         | ---         | 0.74     | dB         | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -7.97    | dBm/0.5MHz | PASS    |

### Verdict

PASS

# ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3

## References

|                                               |                                                           |
|-----------------------------------------------|-----------------------------------------------------------|
| TC start                                      | 11.03.2025 10:44:20                                       |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                 |
| System version                                | 5.1.6.0                                                   |
| Standard   Version                            | ISED RSS247   NI                                          |
| Method                                        |                                                           |
| Description                                   | ISED Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-3 |
| Information                                   |                                                           |

## EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

## Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

## Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT40 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | True   Freq [MHz] 5755                    |
| Frequency mid to test                            | False   Freq [MHz] 0                      |
| Frequency high to test                           | False   Freq [MHz] 5795                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5755 MHz

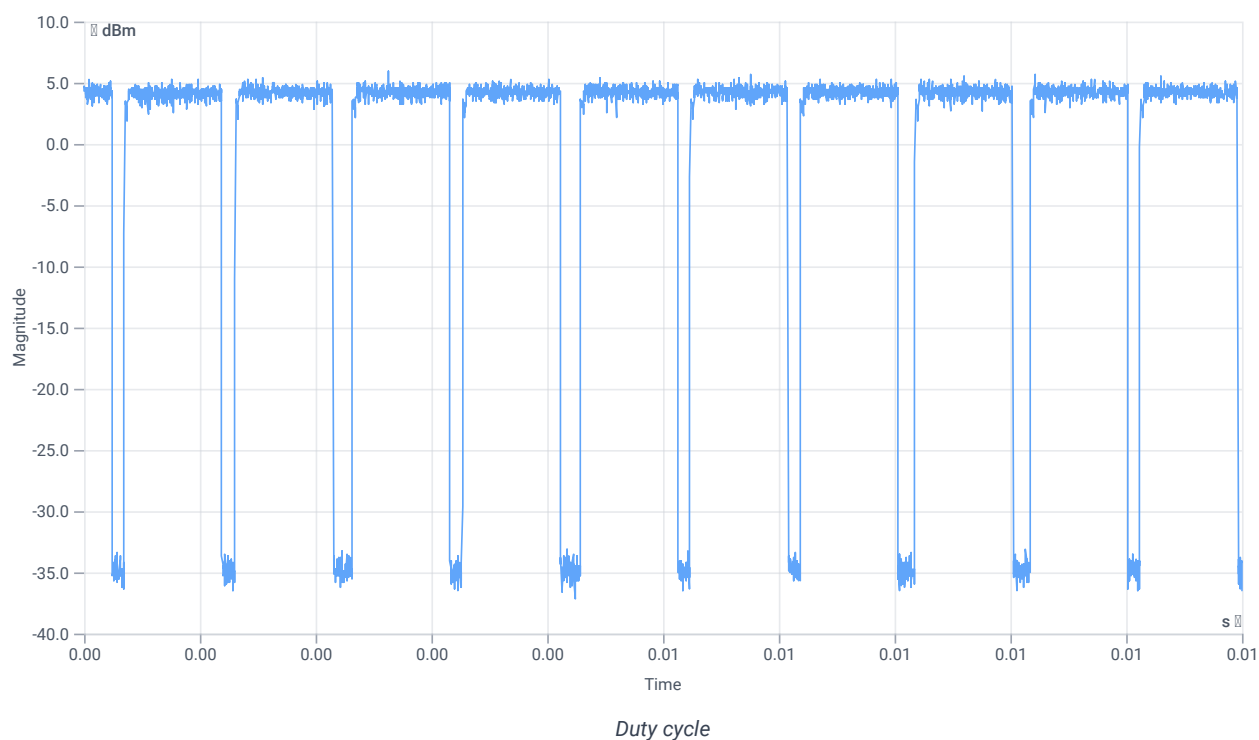
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 3.67     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5750.600 | MHz  | INFO    |

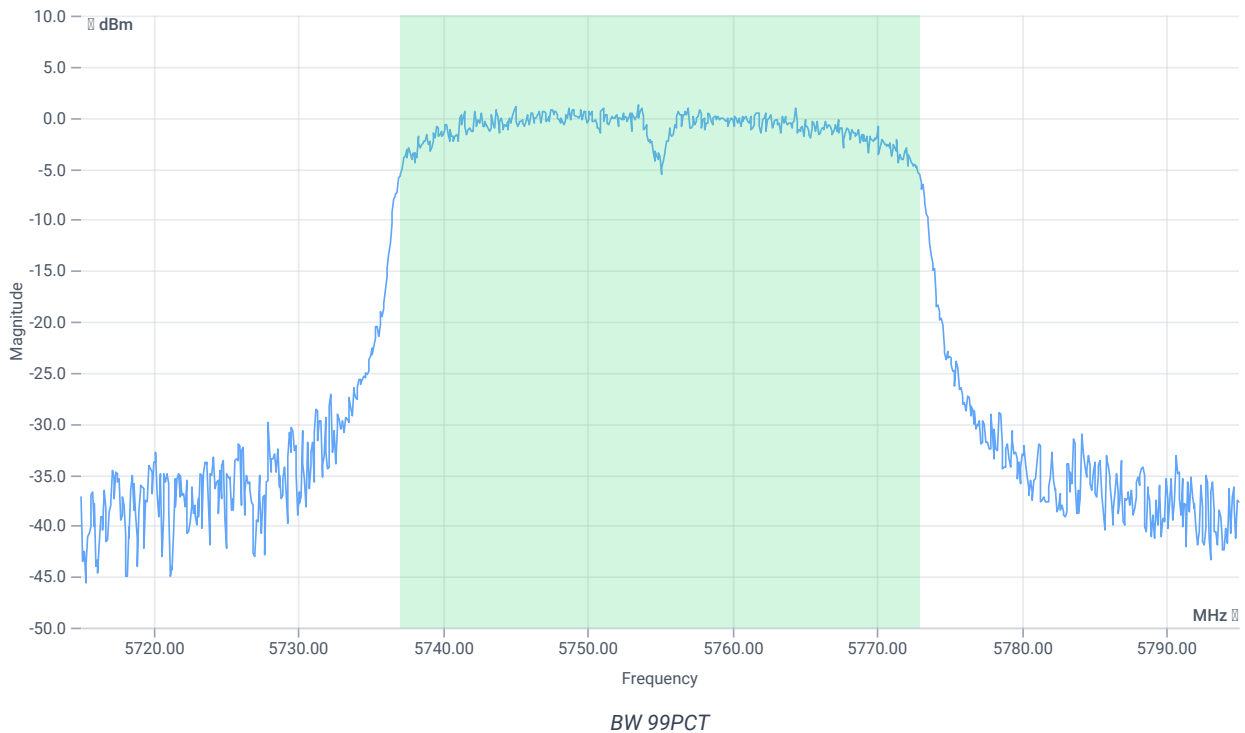
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 9    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.887    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.521    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.824    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.841    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 0.84     | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.107    | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.18     | ms   | INFO    |



## Evaluation bandwidth



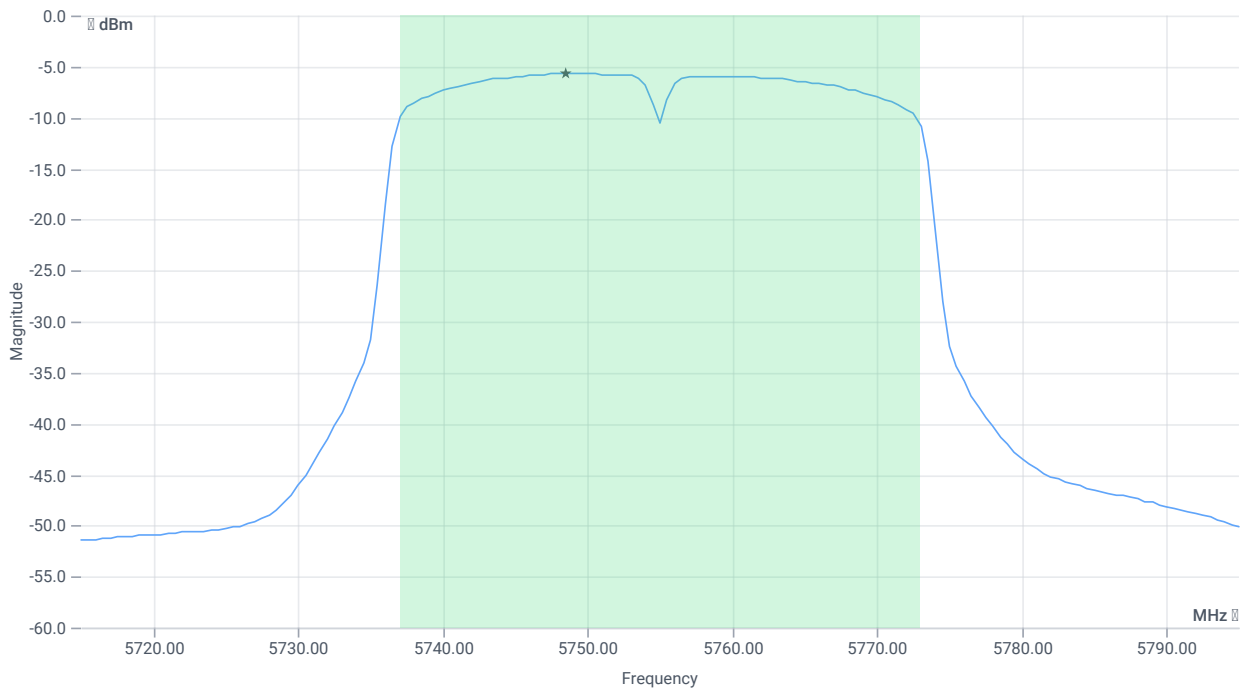
## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 35.804    | MHz  | INFO    |
| T1 99%        | ---         | ---         | 5737.0979 | MHz  | INFO    |
| T2 99%        | ---         | ---         | 5772.9021 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 15.67   12.58   20   |
| Start [MHz]   Stop [MHz]                             | 5715.000   5795.000  |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |

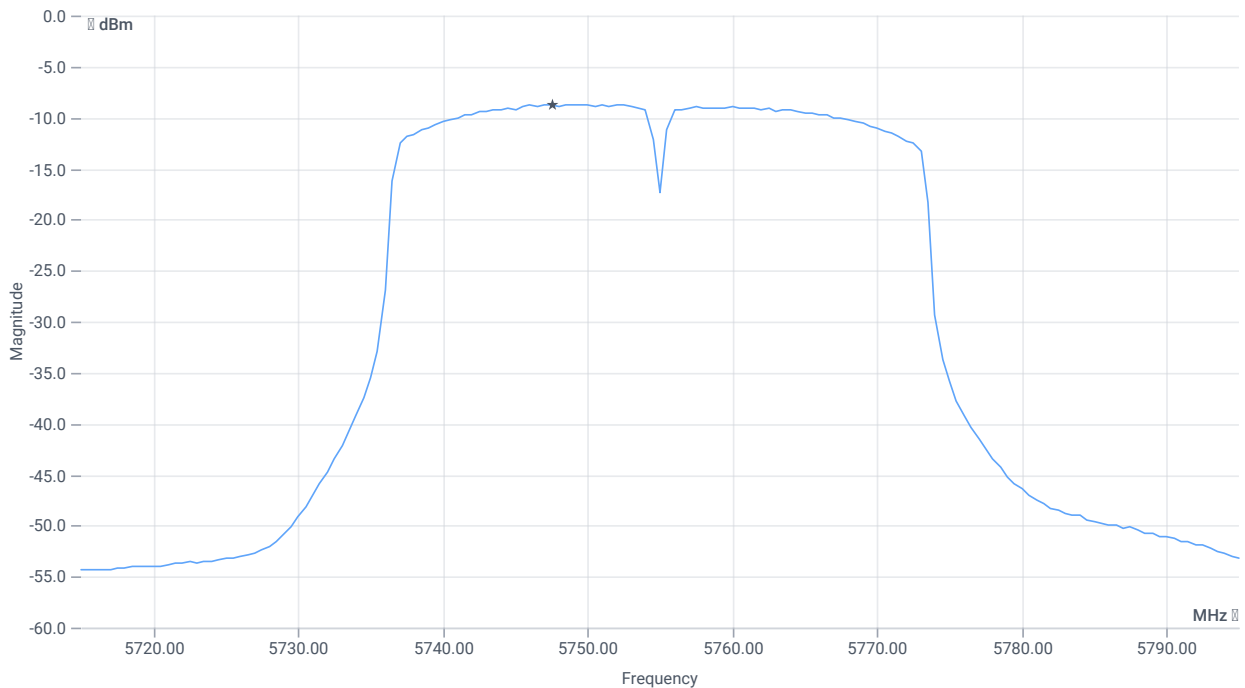


## RESULT

| DESCRIPTION                        | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 8.6      | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.84     | dB   | INFO    |
| LIMIT absolute cond                |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 9.44     | dBm  | PASS    |

## READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 15.67   12.58   20   |
| Start [MHz]   Stop [MHz]                             | 5715.000   5795.000  |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



## RESULT

| DESCRIPTION                              | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT       | VERDICT |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         |             | -8.7     | dBm/0.5MHz | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -7.86    | dBm/0.5MHz | PASS    |

## Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx n-HT40 mode U-NII-3

### References

|                                               |                                                     |
|-----------------------------------------------|-----------------------------------------------------|
| TC start                                      | 11.03.2025 10:45:05                                 |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                           |
| System version                                | 5.1.6.0                                             |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                        |
| Method                                        | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN    |
| Description                                   | FCC 15.407 Bandwidths - WLAN5Gx n-HT40 mode U-NII-3 |
| Information                                   |                                                     |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT40 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | True   Freq [MHz] 5755                    |
| Frequency mid to test                            | False   Freq [MHz] 0                      |
| Frequency high to test                           | False   Freq [MHz] 5795                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

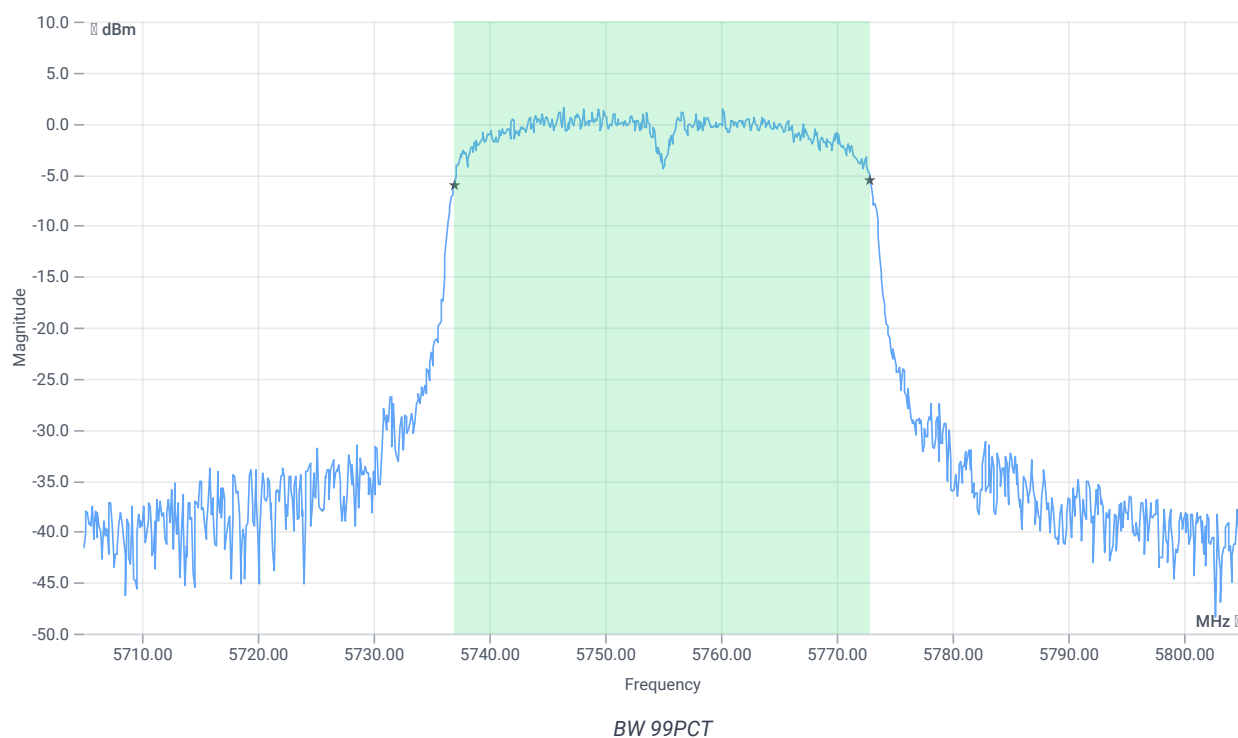
## Test at TX 5755 MHz

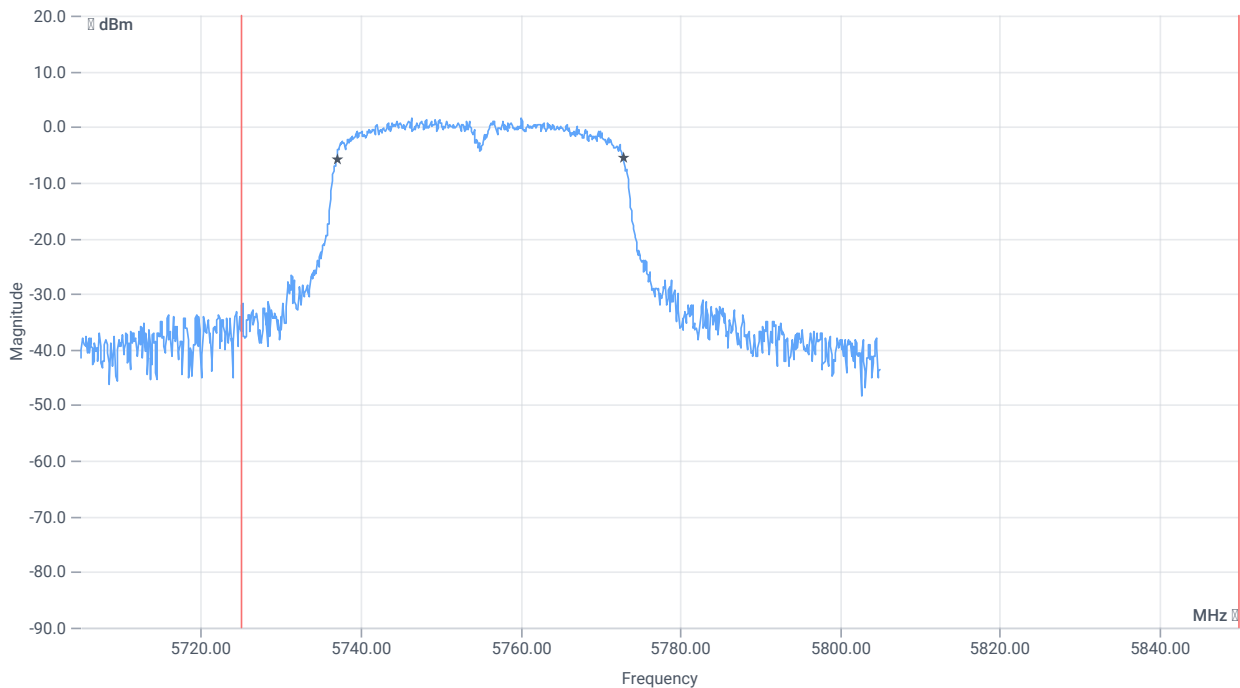
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 3.35     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5757.600 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 11.35   12.58   15    |
| Start [MHz]   Stop [MHz]                             | 5705.000   5805.000   |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

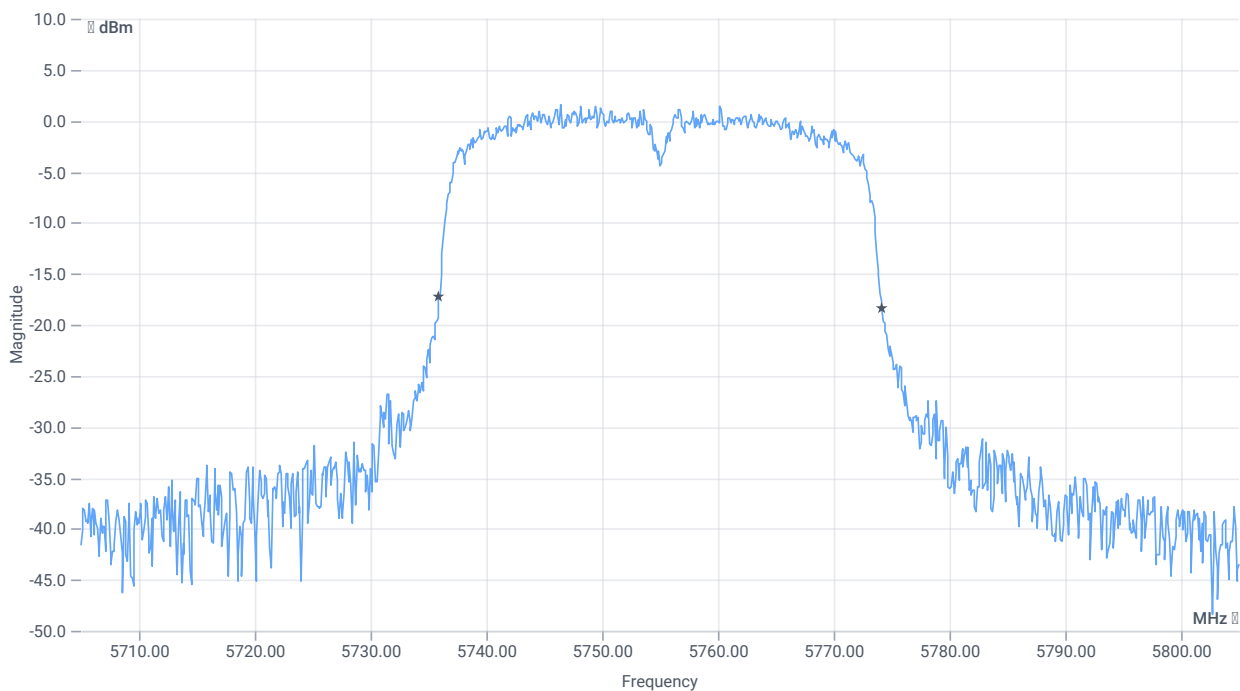




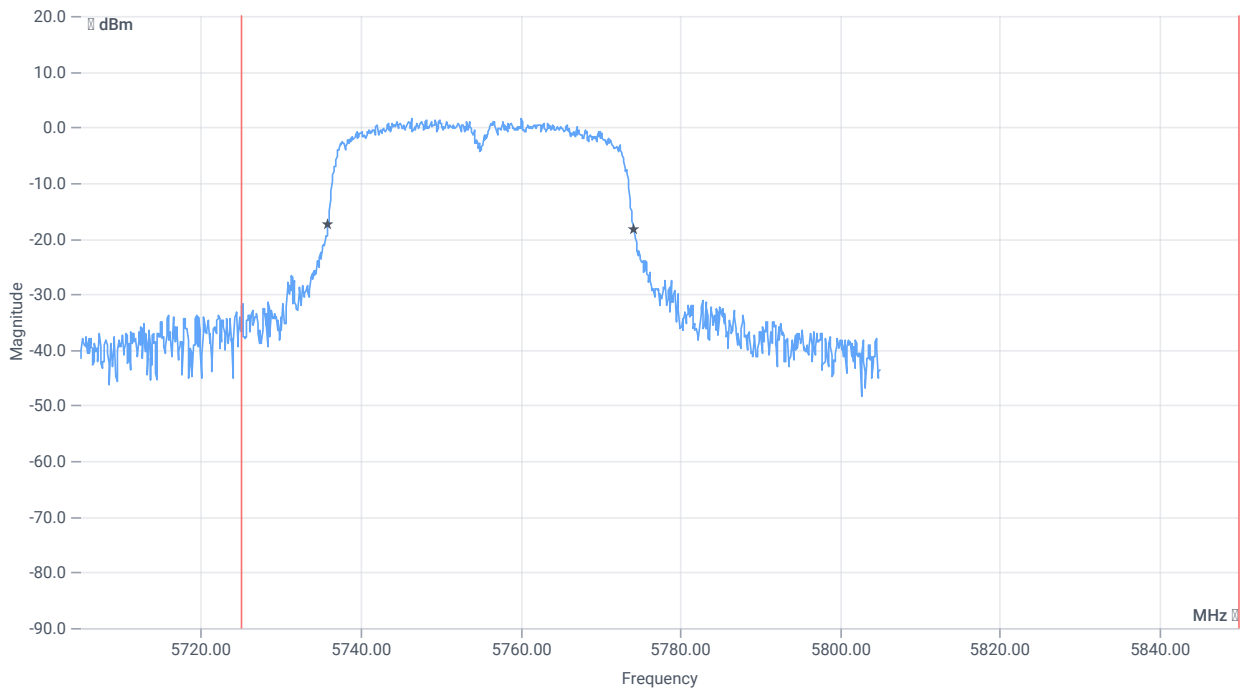
*BW within band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 35.864    | MHz  | INFO    |
| T1 99%        | 5725.000000 | ---         | 5737.0180 | MHz  | PASS    |
| T2 99%        | ---         | 5850.000000 | 5772.8821 | MHz  | PASS    |



BW 20dB



BW within band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 38.3      | MHz  | INFO    |
| T1 20dB        | 5725.000000 | ---         | 5735.9000 | MHz  | PASS    |
| T2 20dB        | ---         | 5850.000000 | 5774.2000 | MHz  | PASS    |

Verdict

PASS

## FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT40 mode U-NII-3

### References

|                                               |                                                                 |
|-----------------------------------------------|-----------------------------------------------------------------|
| TC start                                      | 11.03.2025 10:45:37                                             |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                       |
| System version                                | 5.1.6.0                                                         |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                                    |
| Method                                        | KDB789033 D02, C.2.                                             |
| Description                                   | FCC 15.407 Min Emission Bandwidth - WLAN5Gx n-HT40 mode U-NII-3 |
| Information                                   |                                                                 |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                          |
|--------------------------------------------------|------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT40 mode                      |
| EUT port                                         | EUT1                                     |
| Temperature                                      | nom                                      |
| Voltage                                          | nom                                      |
| Frequency low to test                            | True   Freq [MHz] 5755                   |
| Frequency mid to test                            | False   Freq [MHz] 0                     |
| Frequency high to test                           | False   Freq [MHz] 5795                  |
| Auto control enabled power supply   Climatic Box | No   No                                  |
| Additional path loss [dB]                        | 0                                        |
| Full path type                                   | EUT_SA_GEN_SIG                           |
| Full path name                                   | EUT1.MPSIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001      |

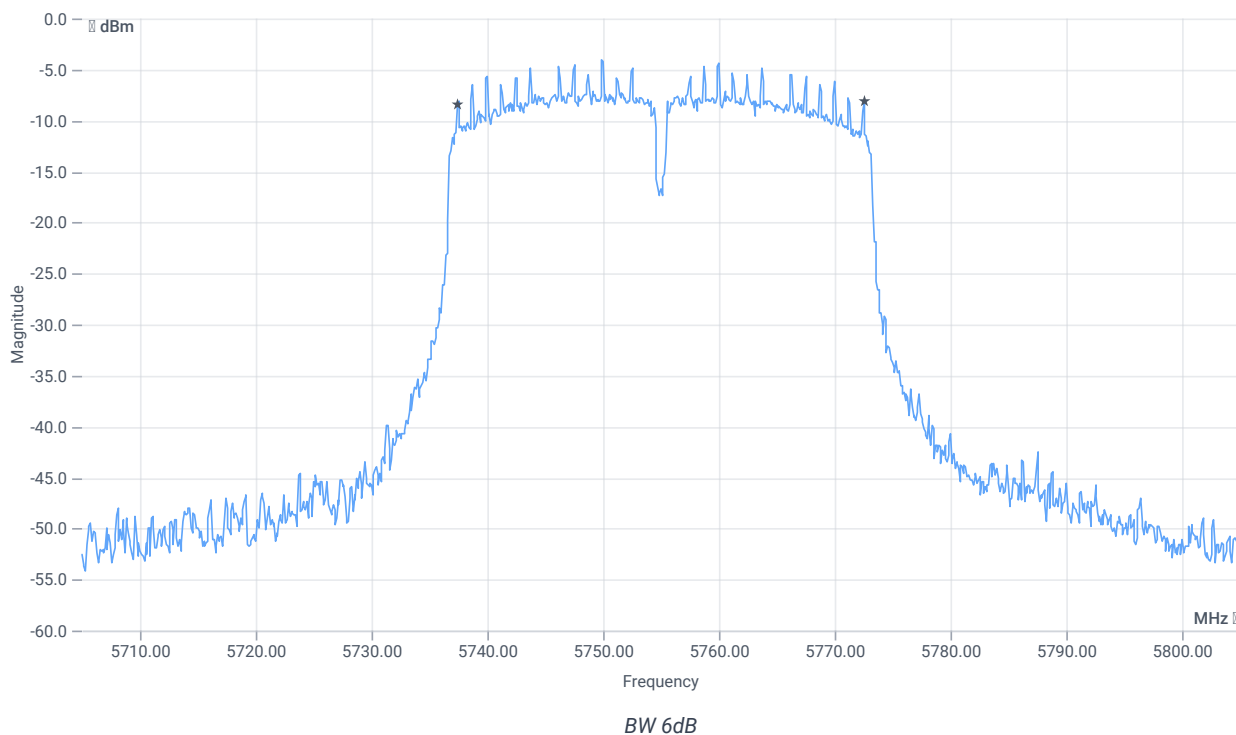
## Test at TX 5755 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 3.09     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5749.010 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 15.09   12.58   20    |
| Start [MHz]   Stop [MHz]                             | 5705.000   5805.000   |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 2   1500   1001   SWE |



### RESULT

| DESCRIPTION     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------|-------------|-------------|----------|------|---------|
| Bandwidth (6dB) | 0.500       | ---         | 35.1     | MHz  | PASS    |

#### Verdict

PASS

## FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx n-HT40 mode U-NII-3

### References

|                                               |                                                        |
|-----------------------------------------------|--------------------------------------------------------|
| TC start                                      | 11.03.2025 10:46:03                                    |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                              |
| System version                                | 5.1.6.0                                                |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                           |
| Method                                        | NI                                                     |
| Description                                   | FCC 15.407 Emission mask - WLAN5Gx n-HT40 mode U-NII-3 |
| Information                                   |                                                        |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT40 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | True   Freq [MHz] 5755                    |
| Frequency mid to test                            | False   Freq [MHz] 0                      |
| Frequency high to test                           | False   Freq [MHz] 5795                   |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5755 MHz

Number of antenna ports: 1

reduction of limit due to number of antenna ports [dB]: 0

RESULT: Reference power cond.

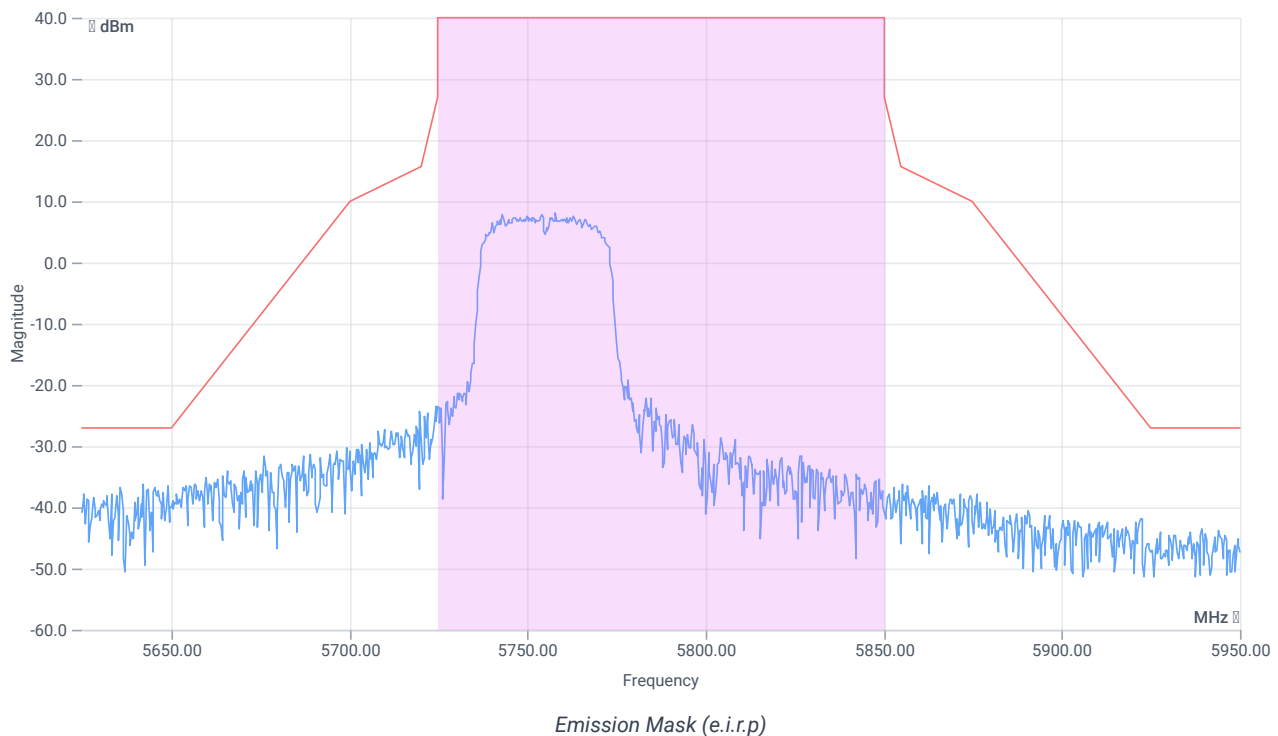
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 3.59     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5744.810 | MHz  | INFO    |

## Antenna gain

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Considered antenna gain [dBi]: | 3.4 / max found in range 5625 to 5950 MHz |
|--------------------------------|-------------------------------------------|

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 6.59   12.58   10     |
| Start [MHz]   Stop [MHz]                             | 5625.000   5950.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |



## RESULT

| DESCRIPTION                                                           | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT                                                                    | VERDICT |
|-----------------------------------------------------------------------|-------------|-------------|----------|-------------------------------------------------------------------------|---------|
| cetecom advanced GmbH<br>Untertürkheimer Str. 6-10, 66117 Saarbrücken |             |             |          | Document No. 1-8801-24-01-18_TR1-A201-R1<br>Release 1 - Page 136 of 175 |         |

Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3

### References

|                                               |                                                                 |
|-----------------------------------------------|-----------------------------------------------------------------|
| TC start                                      | 11.03.2025 10:50:59                                             |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                       |
| System version                                | 5.1.6.0                                                         |
| Standard   Version                            | FCC 15.407   NI                                                 |
| Method                                        | KDB789033 D02, F., E.2.e.                                       |
| Description                                   | FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-3 |
| Information                                   |                                                                 |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT40 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5755                   |
| Frequency mid to test                            | False   Freq [MHz] 0                      |
| Frequency high to test                           | True   Freq [MHz] 5795                    |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5795 MHz

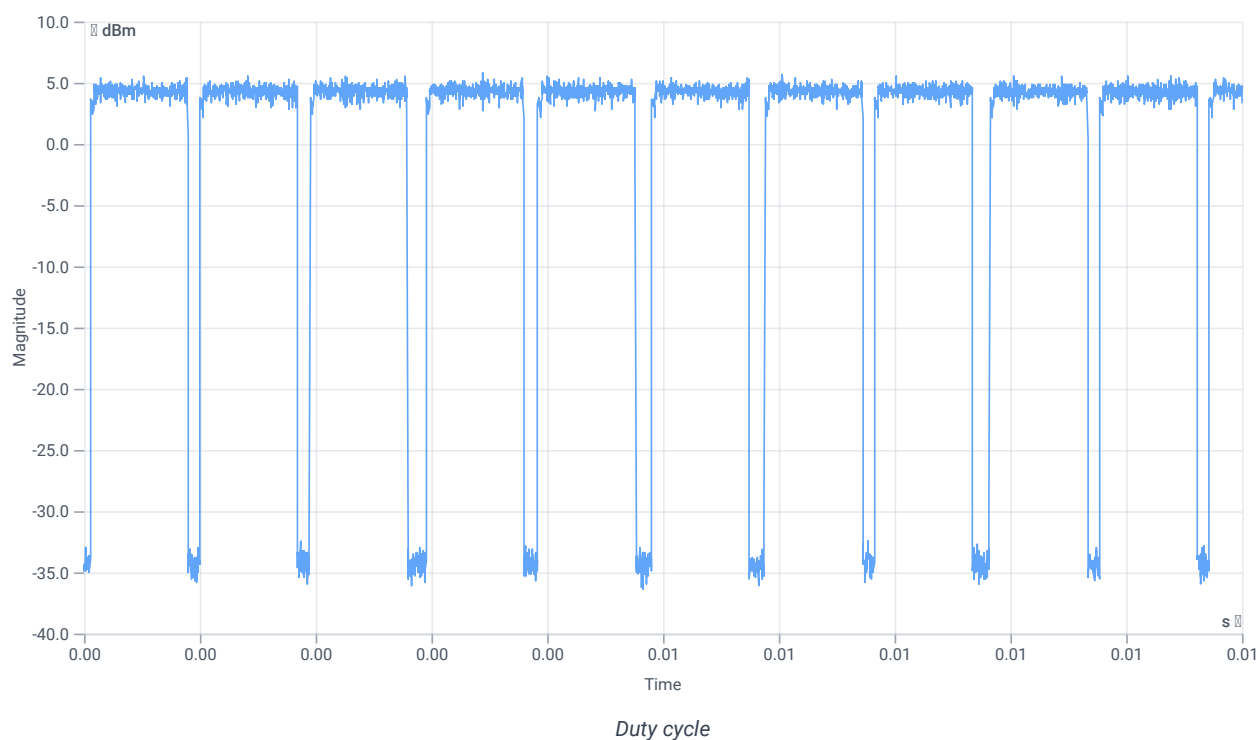
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 3.73     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5789.010 | MHz  | INFO    |

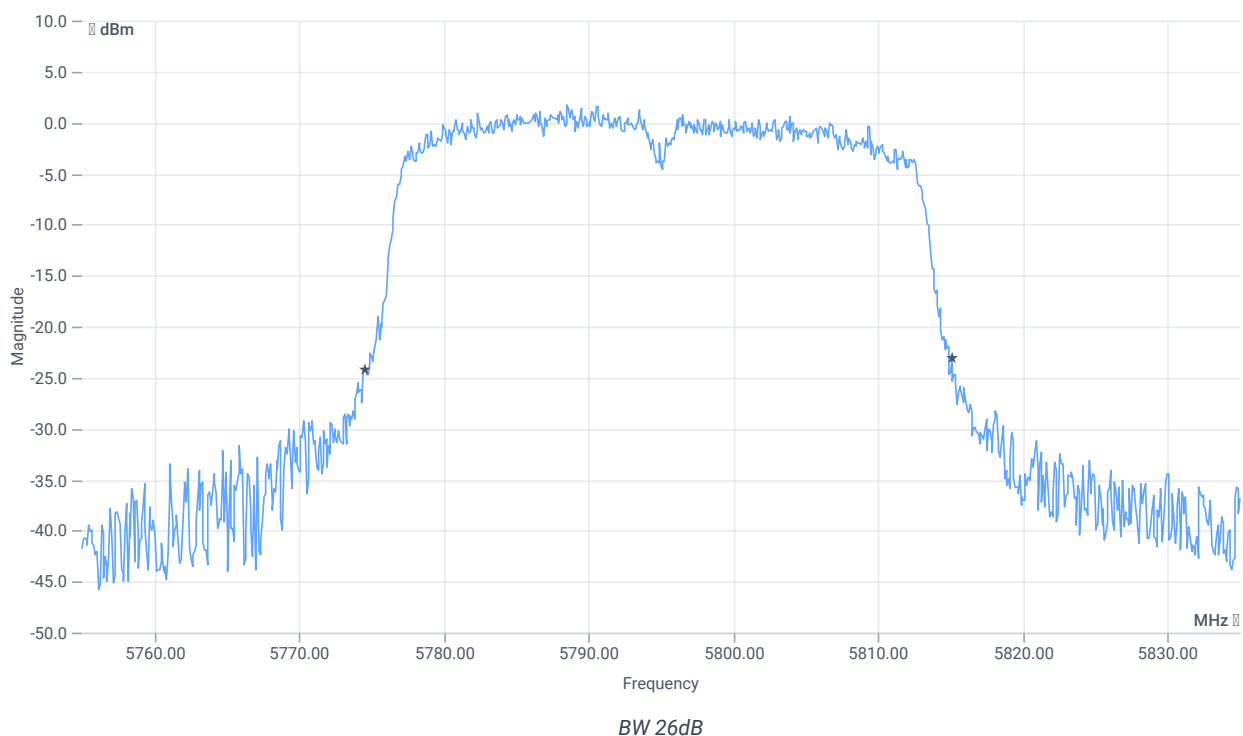
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 9    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.887    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.521    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.838    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.768    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 0.84     | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.107    | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.162    | ms   | INFO    |



## Evaluation bandwidth



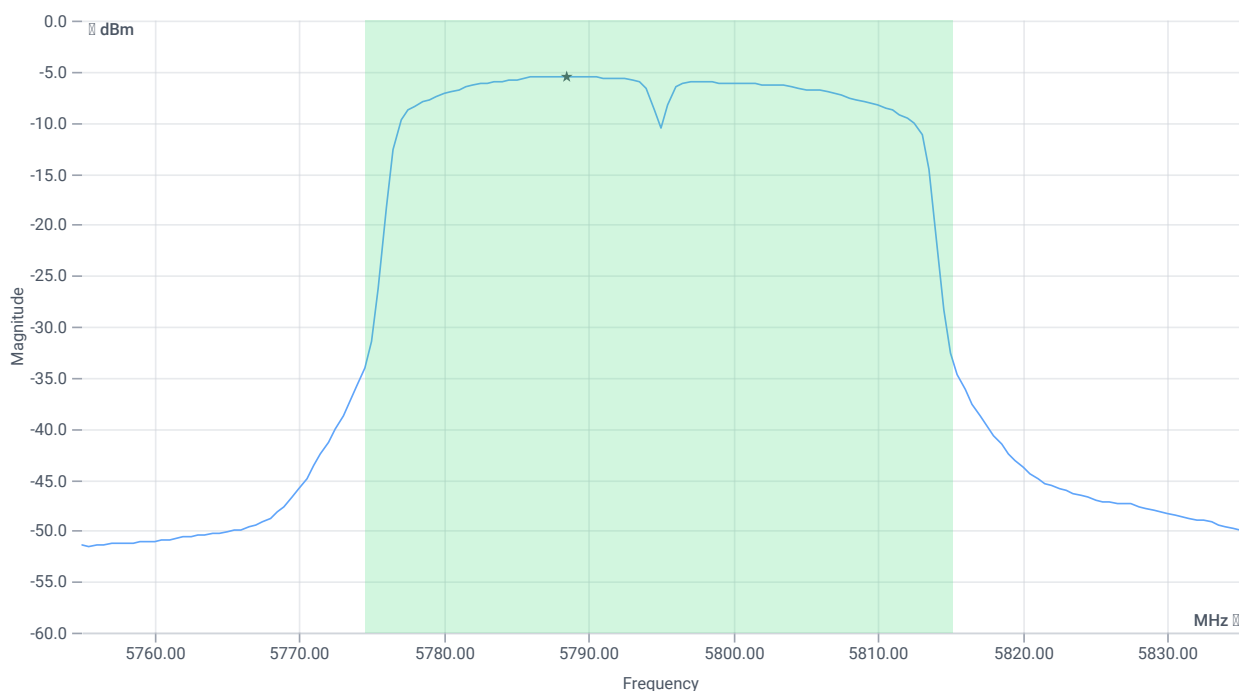
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 40.56     | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5774.5200 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5815.0800 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 15.73   13.09   20   |
| Start [MHz]   Stop [MHz]                             | 5755.000   5835.000  |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



Max OP and PSD

## RESULT

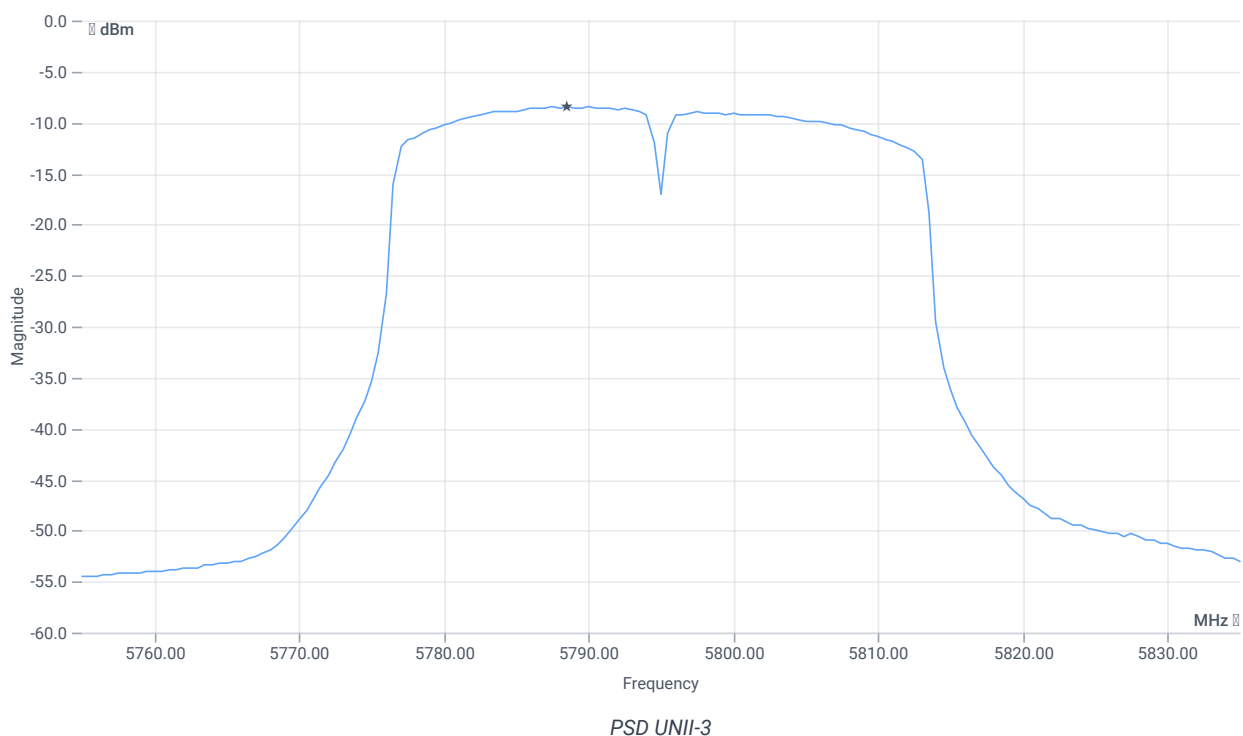
### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                        | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 8.68     | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.77     | dB   | INFO    |
| LIMIT absolute:                    |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 9.45     | dBm  | PASS    |
| LIMIT: 11 dBm + 10 log 40.56       |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 27.08       | 9.45     | dBm  | na      |

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 15.73   13.09   20   |
| Start [MHz]   Stop [MHz]                             | 5755.000   5835.000  |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



## RESULT

### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                              | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         | ---         | -8.47    | dBm/0.5MHz | INFO    |
| Duty cycle correction                    | ---         | ---         | 0.77     | dB         | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -7.7     | dBm/0.5MHz | PASS    |

### Verdict

PASS

# ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-3

## References

|                                               |                                                           |
|-----------------------------------------------|-----------------------------------------------------------|
| TC start                                      | 11.03.2025 10:51:44                                       |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                 |
| System version                                | 5.1.6.0                                                   |
| Standard   Version                            | ISED RSS247   NI                                          |
| Method                                        |                                                           |
| Description                                   | ISED Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-3 |
| Information                                   |                                                           |

## EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

## Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

## Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT40 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5755                   |
| Frequency mid to test                            | False   Freq [MHz] 0                      |
| Frequency high to test                           | True   Freq [MHz] 5795                    |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5795 MHz

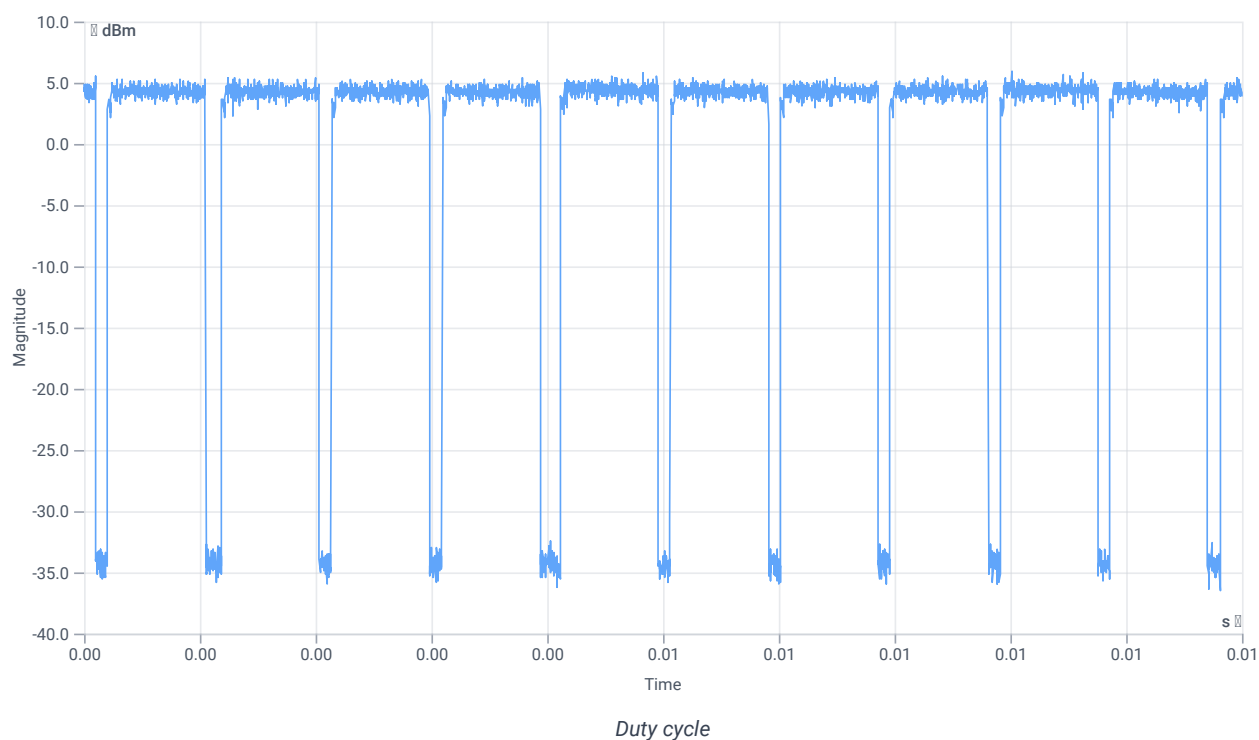
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 3.71     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5783.610 | MHz  | INFO    |

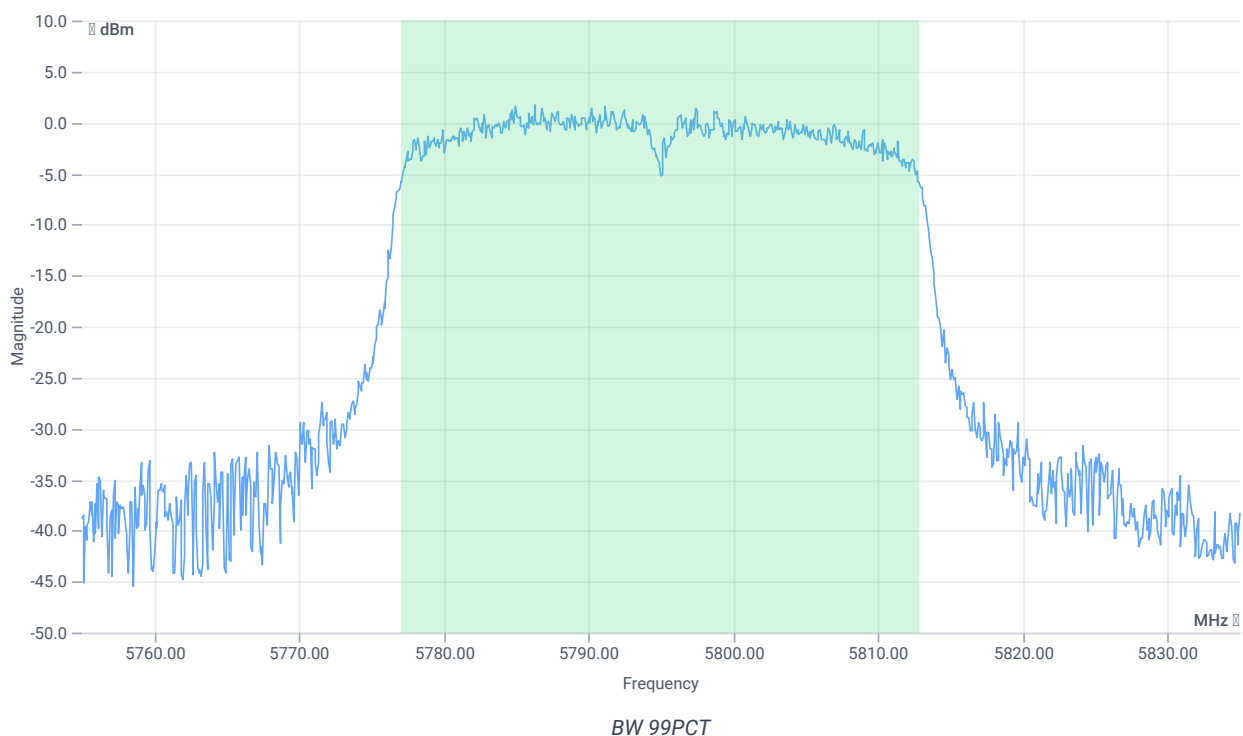
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 10   |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.887    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.521    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.824    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.841    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 0.84     | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.107    | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.18     | ms   | INFO    |



## Evaluation bandwidth



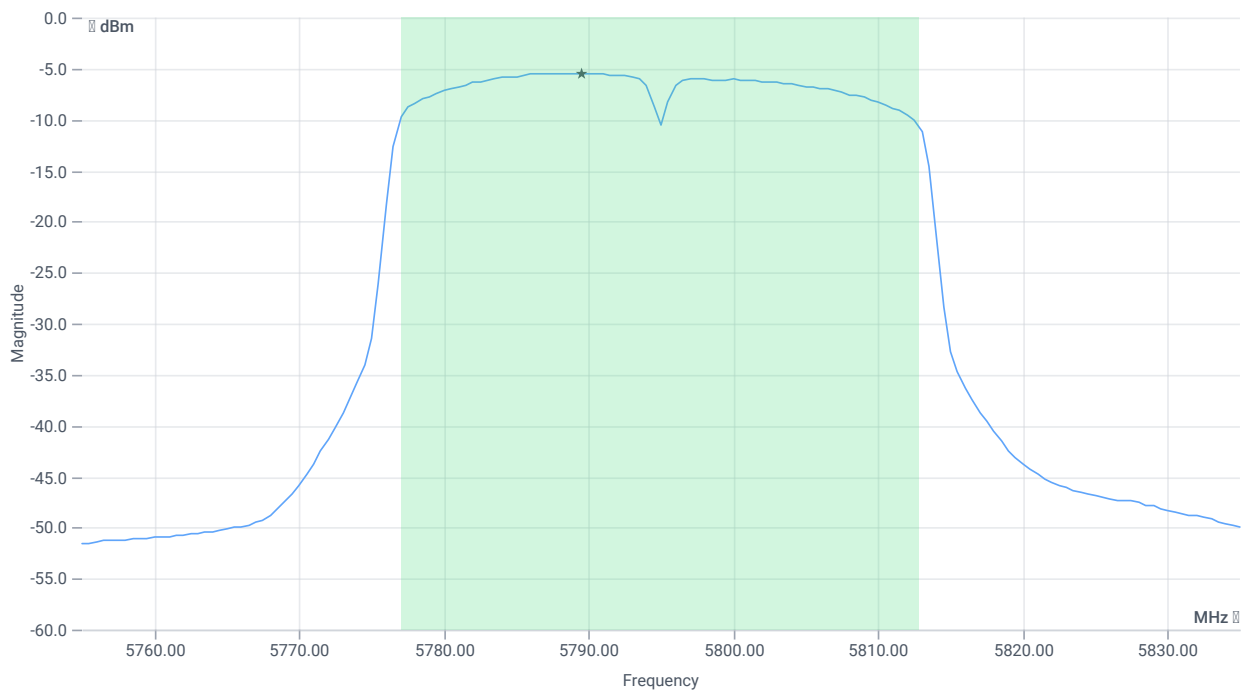
## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 35.804    | MHz  | INFO    |
| T1 99%        | ---         | ---         | 5777.0180 | MHz  | INFO    |
| T2 99%        | ---         | ---         | 5812.8222 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 15.71   13.09   20   |
| Start [MHz]   Stop [MHz]                             | 5755.000   5835.000  |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



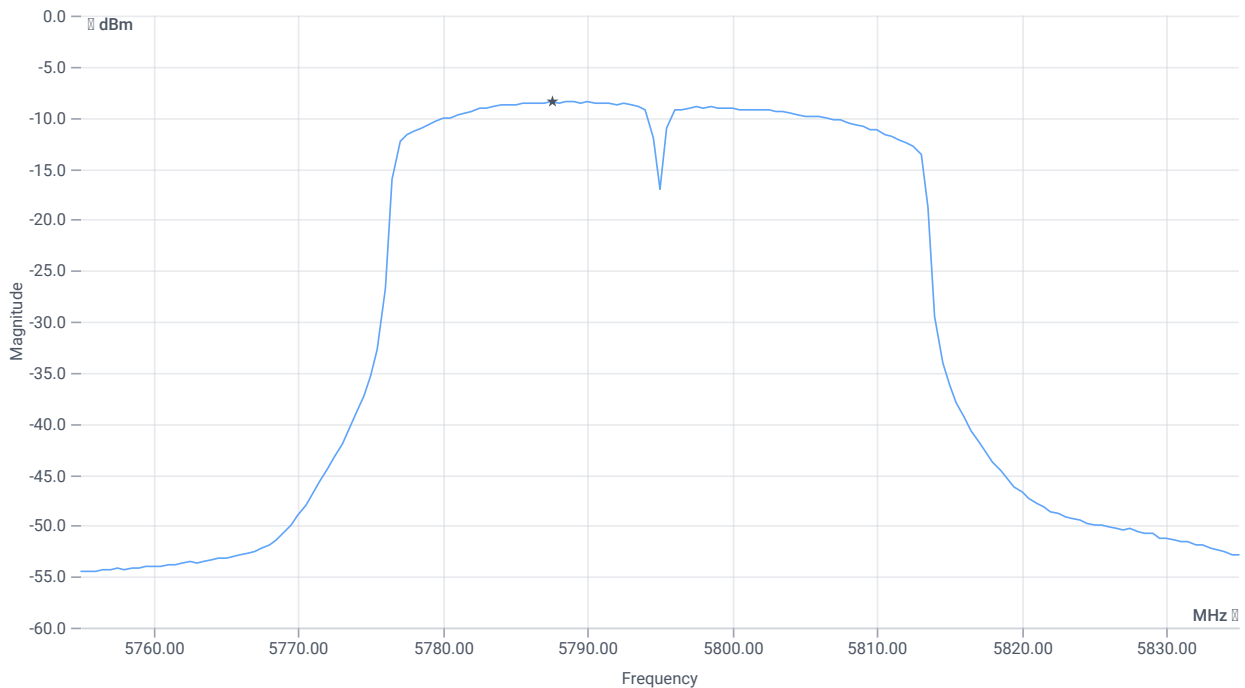
Max OP and PSD (without antenna gain)

## RESULT

| DESCRIPTION                        | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 8.62     | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.84     | dB   | INFO    |
| LIMIT absolute cond                |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 9.46     | dBm  | PASS    |

## READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 15.71   13.09   20   |
| Start [MHz]   Stop [MHz]                             | 5755.000   5835.000  |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000  |
| Detector   TraceMode                                 | RMS   MAXH           |
| Sweep: time [ms]   count   points per Section   type | 5370   1   161   SWE |



## RESULT

| DESCRIPTION                              | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT       | VERDICT |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         |             | -8.44    | dBm/0.5MHz | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -7.6     | dBm/0.5MHz | PASS    |

## Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx n-HT40 mode U-NII-3

### References

|                                               |                                                     |
|-----------------------------------------------|-----------------------------------------------------|
| TC start                                      | 11.03.2025 10:52:32                                 |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                           |
| System version                                | 5.1.6.0                                             |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                        |
| Method                                        | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN    |
| Description                                   | FCC 15.407 Bandwidths - WLAN5Gx n-HT40 mode U-NII-3 |
| Information                                   |                                                     |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT40 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5755                   |
| Frequency mid to test                            | False   Freq [MHz] 0                      |
| Frequency high to test                           | True   Freq [MHz] 5795                    |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

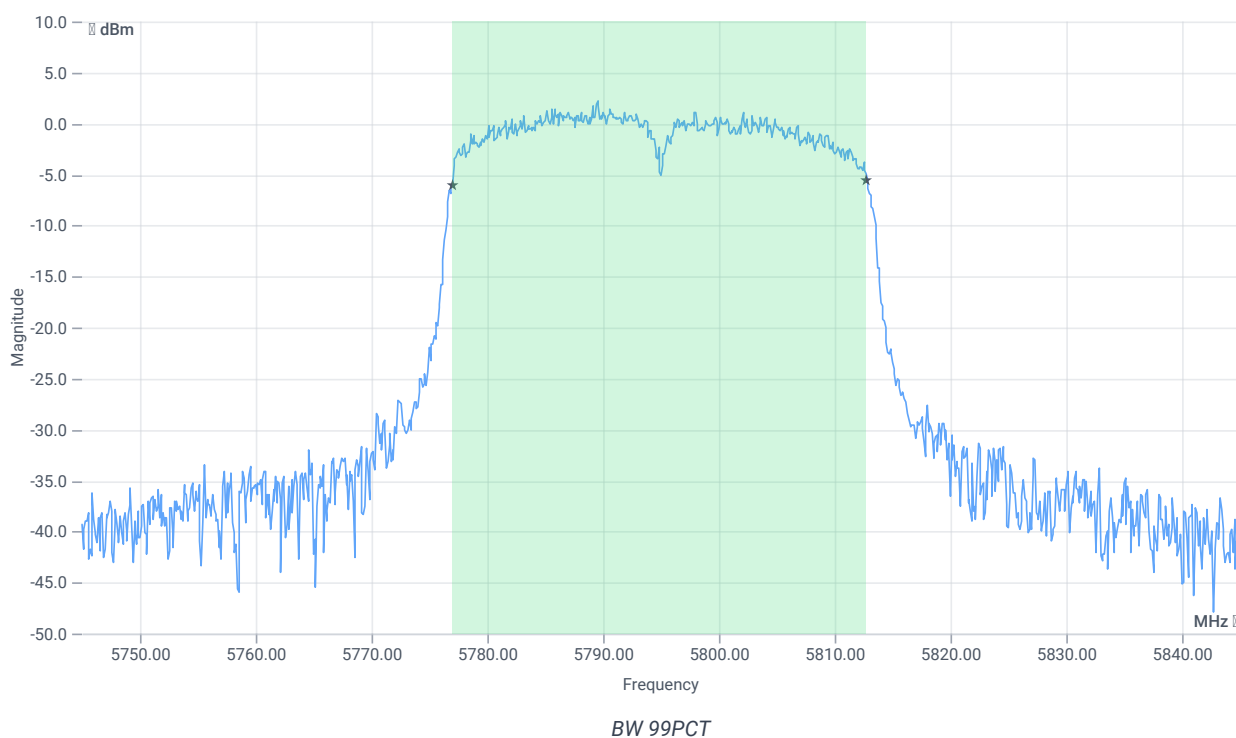
## Test at TX 5795 MHz

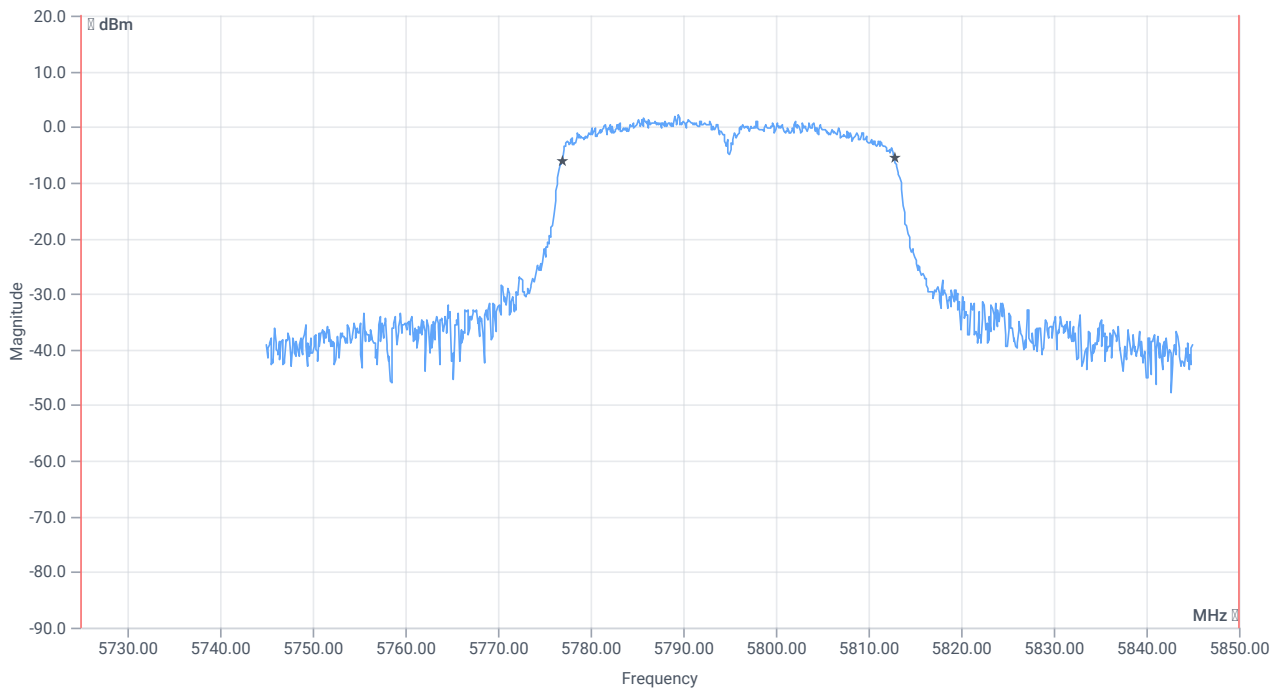
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 4.02     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5797.800 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 12.02   13.09   15    |
| Start [MHz]   Stop [MHz]                             | 5745.000   5845.000   |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

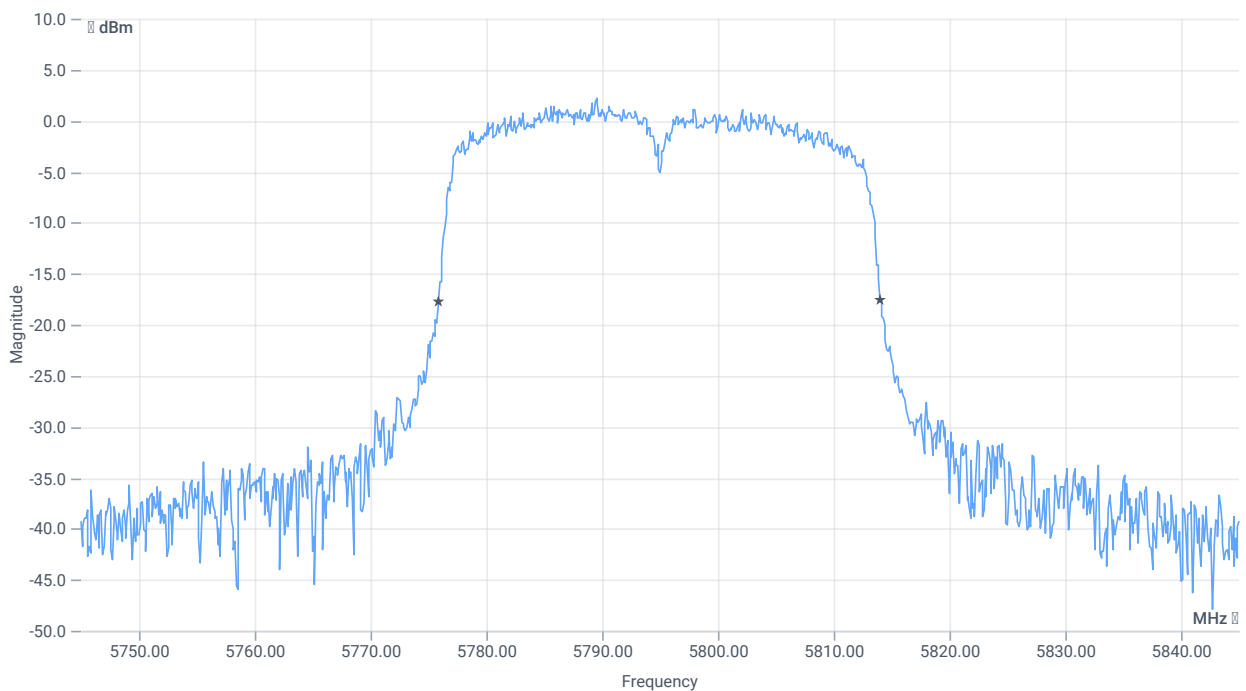




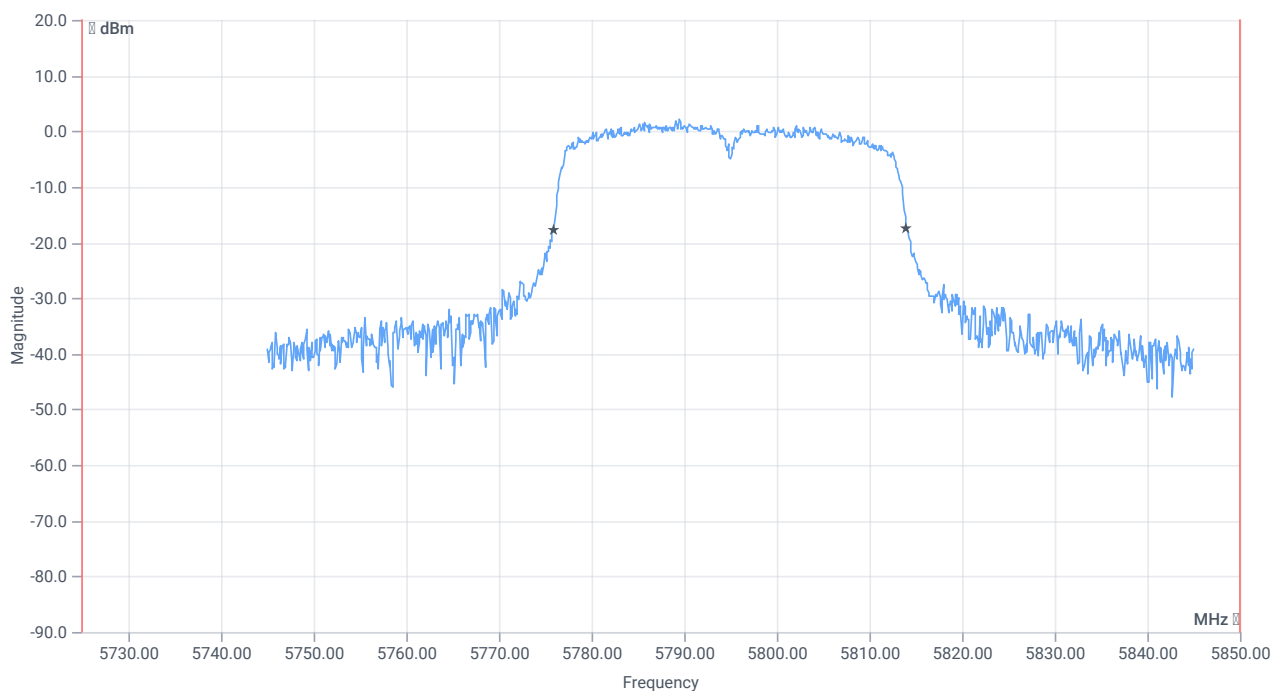
*BW within band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 35.764    | MHz  | INFO    |
| T1 99%        | 5725.000000 | ---         | 5777.0180 | MHz  | PASS    |
| T2 99%        | ---         | 5850.000000 | 5812.7822 | MHz  | PASS    |



BW 20dB



BW within band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 38.1      | MHz  | INFO    |
| T1 20dB        | 5725.000000 | ---         | 5775.9000 | MHz  | PASS    |
| T2 20dB        | ---         | 5850.000000 | 5814.0000 | MHz  | PASS    |

Verdict

PASS

## FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT40 mode U-NII-3

### References

|                                               |                                                                 |
|-----------------------------------------------|-----------------------------------------------------------------|
| TC start                                      | 11.03.2025 10:53:03                                             |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                       |
| System version                                | 5.1.6.0                                                         |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                                    |
| Method                                        | KDB789033 D02, C.2.                                             |
| Description                                   | FCC 15.407 Min Emission Bandwidth - WLAN5Gx n-HT40 mode U-NII-3 |
| Information                                   |                                                                 |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT40 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5755                   |
| Frequency mid to test                            | False   Freq [MHz] 0                      |
| Frequency high to test                           | True   Freq [MHz] 5795                    |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

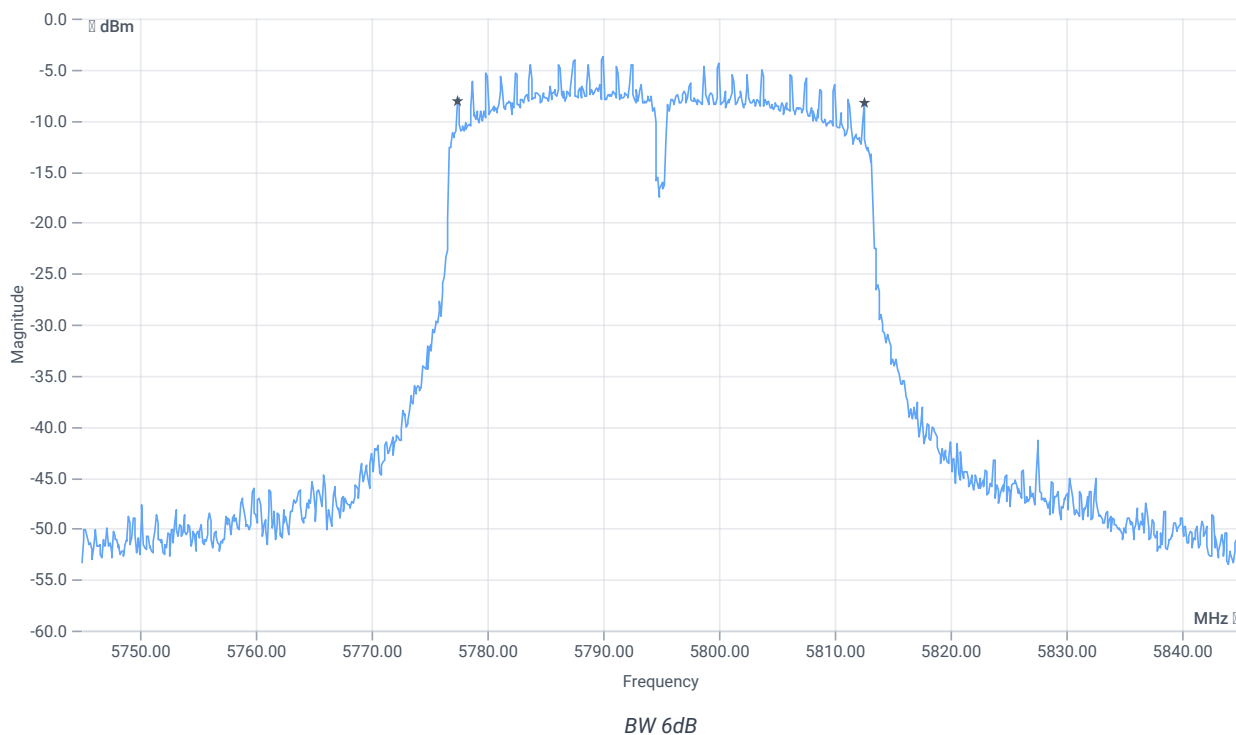
## Test at TX 5795 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 4.09     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5785.010 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 16.09   13.09   20    |
| Start [MHz]   Stop [MHz]                             | 5745.000   5845.000   |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 2   1500   1001   SWE |



### RESULT

| DESCRIPTION     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------|-------------|-------------|----------|------|---------|
| Bandwidth (6dB) | 0.500       | ---         | 35.1     | MHz  | PASS    |

#### Verdict

PASS

## FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx n-HT40 mode U-NII-3

### References

|                                               |                                                        |
|-----------------------------------------------|--------------------------------------------------------|
| TC start                                      | 11.03.2025 10:53:29                                    |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                              |
| System version                                | 5.1.6.0                                                |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                           |
| Method                                        | NI                                                     |
| Description                                   | FCC 15.407 Emission mask - WLAN5Gx n-HT40 mode U-NII-3 |
| Information                                   |                                                        |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx n-HT40 mode                       |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 5755                   |
| Frequency mid to test                            | False   Freq [MHz] 0                      |
| Frequency high to test                           | True   Freq [MHz] 5795                    |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5795 MHz

Number of antenna ports: 1

reduction of limit due to number of antenna ports [dB]: 0

RESULT: Reference power cond.

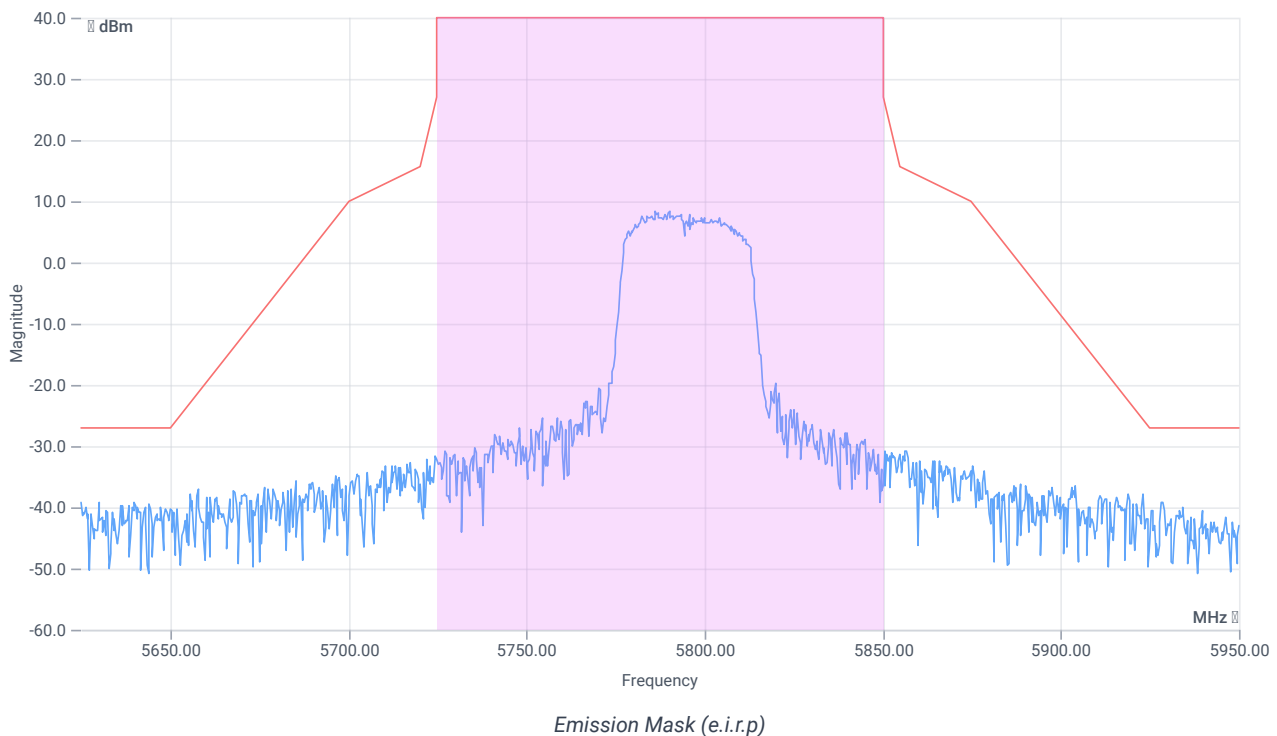
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 4.30     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5797.600 | MHz  | INFO    |

## Antenna gain

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Considered antenna gain [dBi]: | 3.4 / max found in range 5625 to 5950 MHz |
|--------------------------------|-------------------------------------------|

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 7.30   13.09   10     |
| Start [MHz]   Stop [MHz]                             | 5625.000   5950.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |



## RESULT

| DESCRIPTION                                                           | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT                                                                 |
|-----------------------------------------------------------------------|-------------|-------------|----------|------|-------------------------------------------------------------------------|
| cetecom advanced GmbH<br>Untertürkheimer Str. 6-10, 66117 Saarbrücken |             |             |          |      | Document No. 1-8801-24-01-18_TR1-A201-R1<br>Release 1 - Page 155 of 175 |

Verdict

PASS

## FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-3

### References

|                                               |                                                                   |
|-----------------------------------------------|-------------------------------------------------------------------|
| TC start                                      | 11.03.2025 11:02:27                                               |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                         |
| System version                                | 5.1.6.0                                                           |
| Standard   Version                            | FCC 15.407   NI                                                   |
| Method                                        | KDB789033 D02, F., E.2.e.                                         |
| Description                                   | FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-3 |
| Information                                   |                                                                   |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                     |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 0                      |
| Frequency mid to test                            | True   Freq [MHz] 5775                    |
| Frequency high to test                           | False   Freq [MHz] 0                      |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5775 MHz

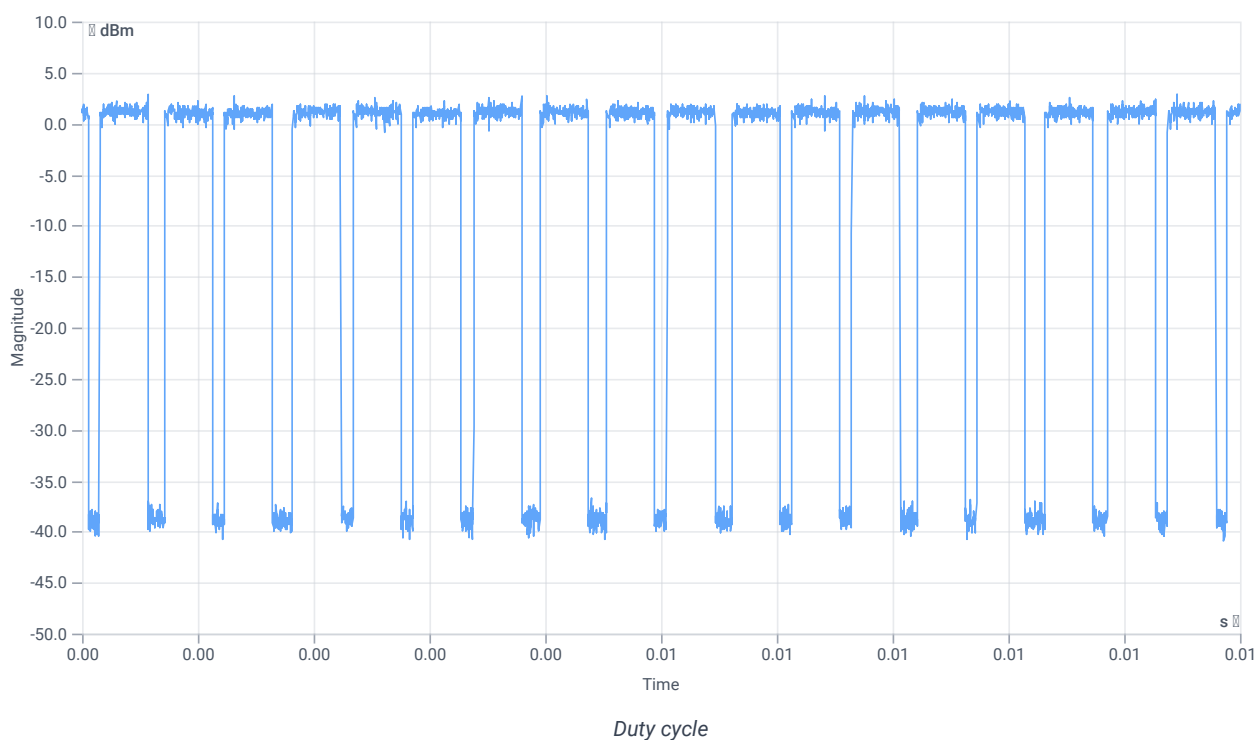
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 0.24     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5771.000 | MHz  | INFO    |

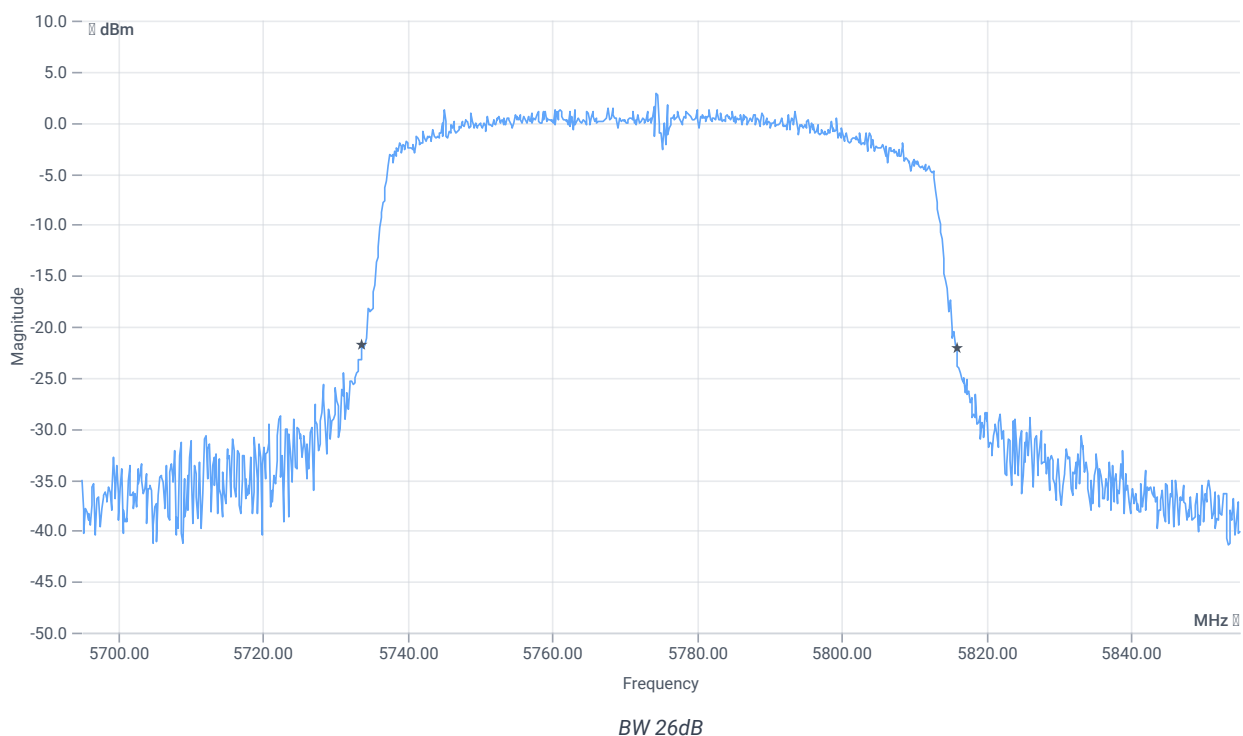
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 18   |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.804    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.947    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.696    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 1.574    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 0.413    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.1      | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.18     | ms   | INFO    |



## Evaluation bandwidth



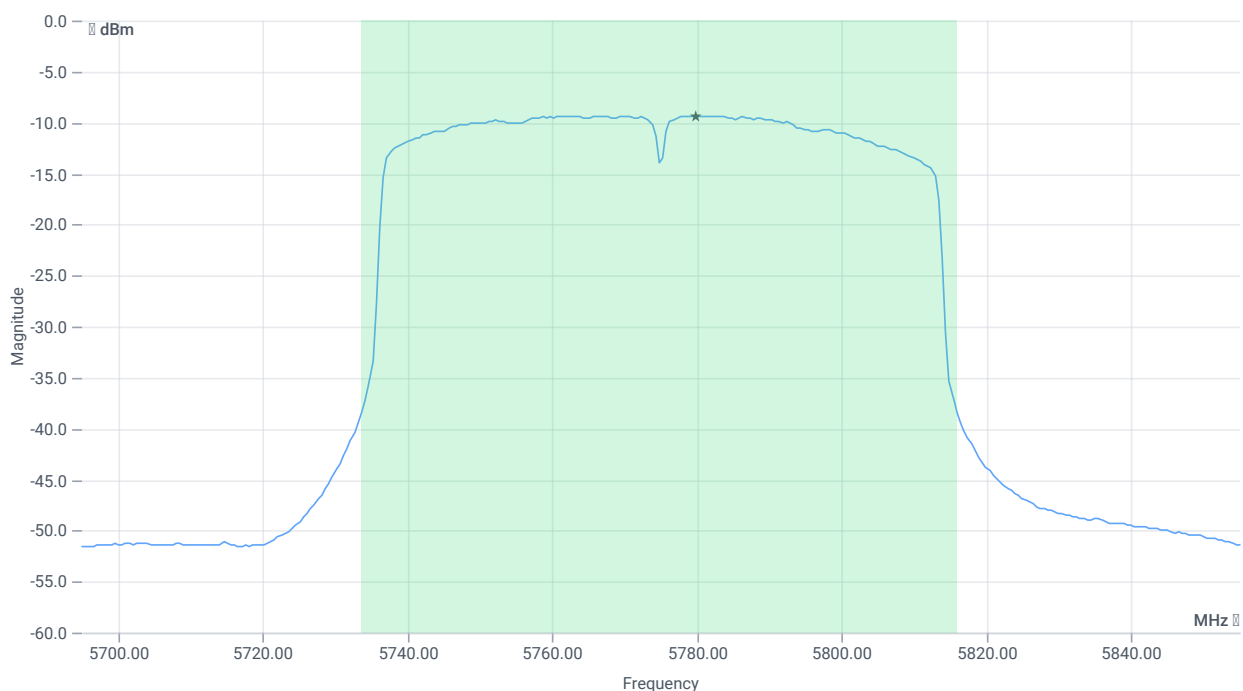
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 82.08     | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5733.7200 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5815.8000 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 12.24   12.64   15    |
| Start [MHz]   Stop [MHz]                             | 5695.000   5855.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 10700   1   320   SWE |



Max OP and PSD

## RESULT

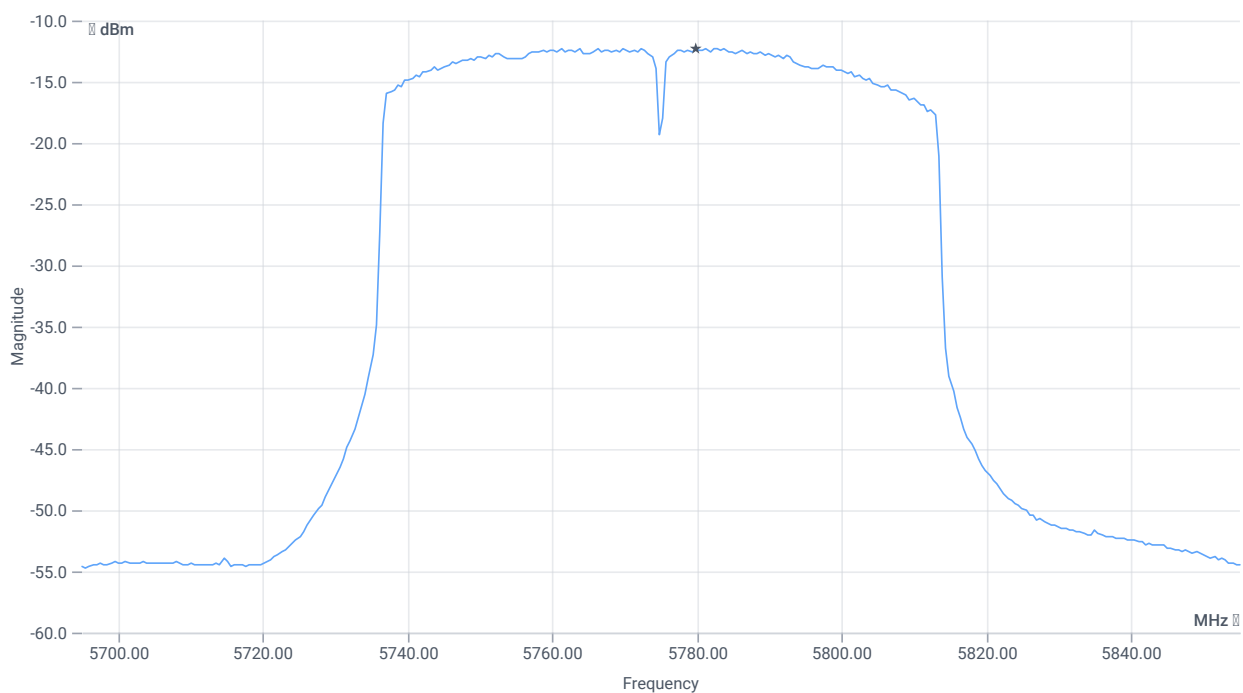
### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                        | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 8.14     | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 1.57     | dB   | INFO    |
| LIMIT absolute:                    |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 9.71     | dBm  | PASS    |
| LIMIT: 11 dBm + 10 log 82.08       |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30.14       | 9.71     | dBm  | na      |

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 12.24   12.64   15    |
| Start [MHz]   Stop [MHz]                             | 5695.000   5855.000   |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 10700   1   320   SWE |



## RESULT

### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                              | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         | ---         | -12.26   | dBm/0.5MHz | INFO    |
| Duty cycle correction                    | ---         | ---         | 1.57     | dB         | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -10.69   | dBm/0.5MHz | PASS    |

### Verdict

PASS

## ISED RSS247 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-3

### References

|                                               |                                                             |
|-----------------------------------------------|-------------------------------------------------------------|
| TC start                                      | 11.03.2025 11:03:26                                         |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                   |
| System version                                | 5.1.6.0                                                     |
| Standard   Version                            | ISED RSS247   NI                                            |
| Method                                        |                                                             |
| Description                                   | ISED Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-3 |
| Information                                   |                                                             |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                     |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 0                      |
| Frequency mid to test                            | True   Freq [MHz] 5775                    |
| Frequency high to test                           | False   Freq [MHz] 0                      |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5775 MHz

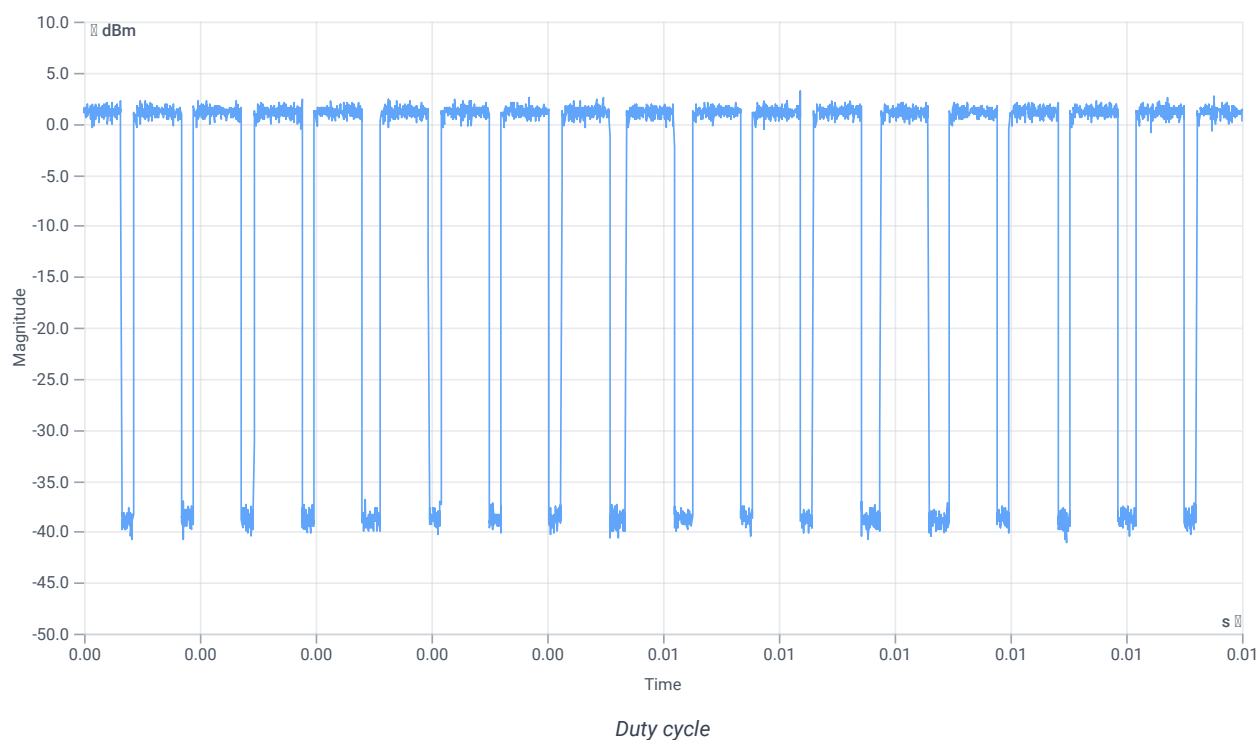
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 0.16     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5762.410 | MHz  | INFO    |

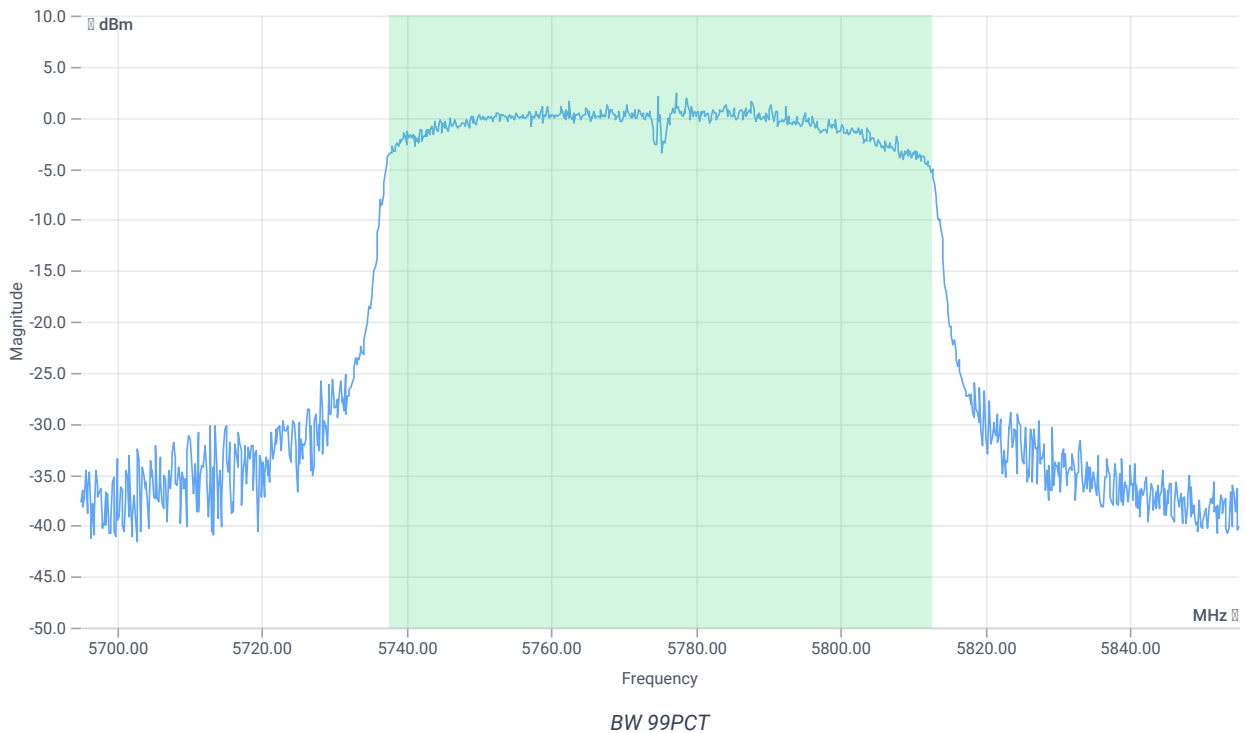
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 17   |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.793    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 1.007    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.692    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 1.599    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 0.413    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.107    | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.183    | ms   | INFO    |



## Evaluation bandwidth



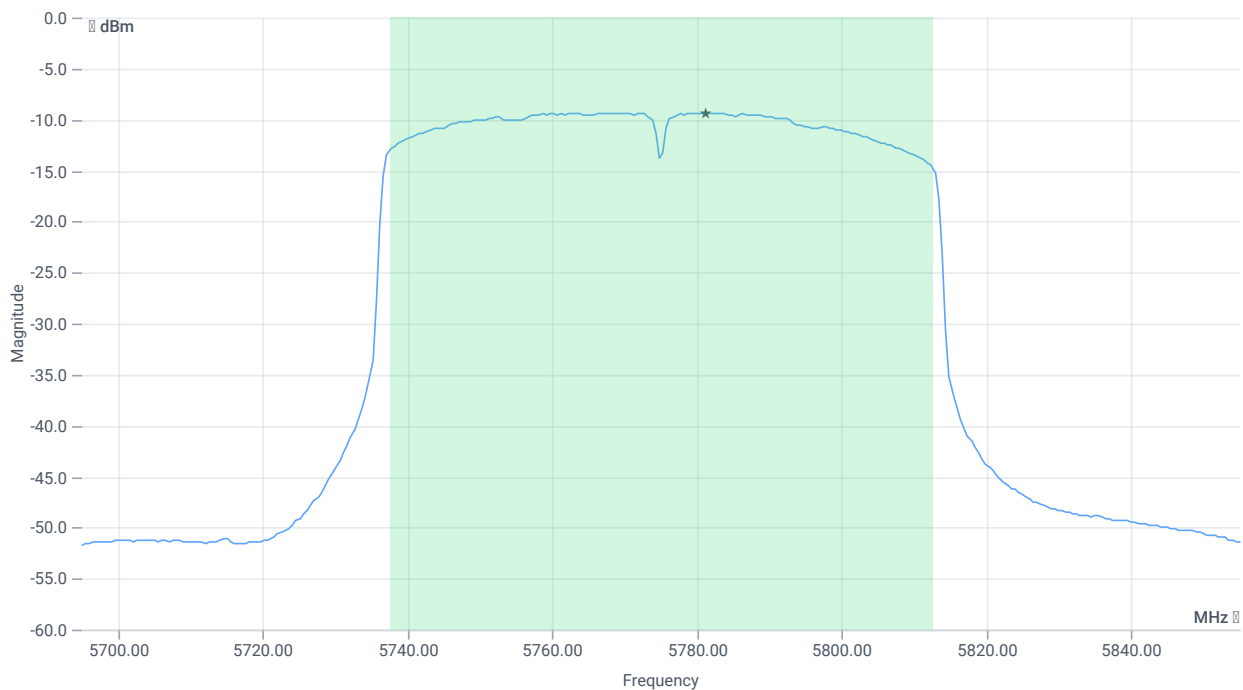
## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 74.965    | MHz  | INFO    |
| T1 99%        | ---         | ---         | 5737.4376 | MHz  | INFO    |
| T2 99%        | ---         | ---         | 5812.4026 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 12.16   12.64   15    |
| Start [MHz]   Stop [MHz]                             | 5695.000   5855.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 10700   1   320   SWE |



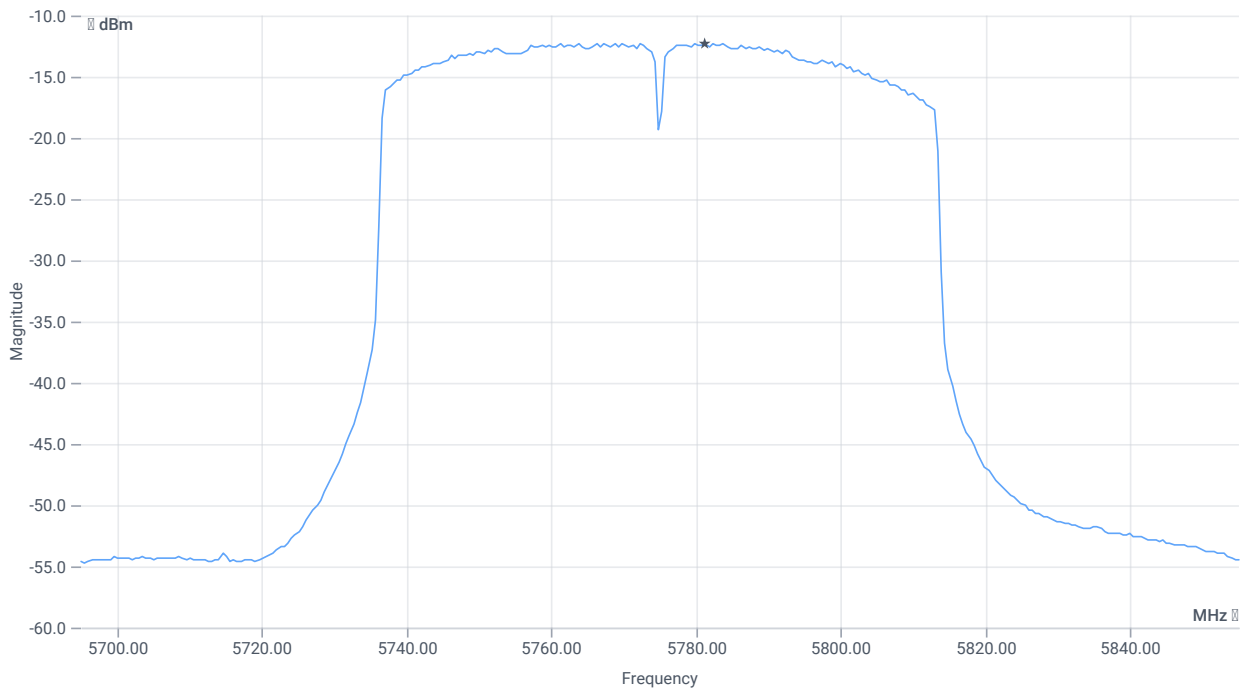
Max OP and PSD (without antenna gain)

## RESULT

| DESCRIPTION                        | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 8.11     | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 1.6      | dB   | INFO    |
| LIMIT absolute cond                |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 9.71     | dBm  | PASS    |

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 12.16   12.64   15    |
| Start [MHz]   Stop [MHz]                             | 5695.000   5855.000   |
| RBW [MHz]   VBW [MHz]                                | 0.500000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 10700   1   320   SWE |



## RESULT

| DESCRIPTION                              | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT       | VERDICT |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         |             | -12.3    | dBm/0.5MHz | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -10.7    | dBm/0.5MHz | PASS    |

## Verdict

PASS

## FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx ac-VHT80 mode U-NII-3

### References

|                                               |                                                       |
|-----------------------------------------------|-------------------------------------------------------|
| TC start                                      | 11.03.2025 11:04:27                                   |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                             |
| System version                                | 5.1.6.0                                               |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                          |
| Method                                        | 26dB Bandwidth KDB789033 D02, C.1 / ISED RSS-GEN      |
| Description                                   | FCC 15.407 Bandwidths - WLAN5Gx ac-VHT80 mode U-NII-3 |
| Information                                   |                                                       |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                     |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 0                      |
| Frequency mid to test                            | True   Freq [MHz] 5775                    |
| Frequency high to test                           | False   Freq [MHz] 0                      |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

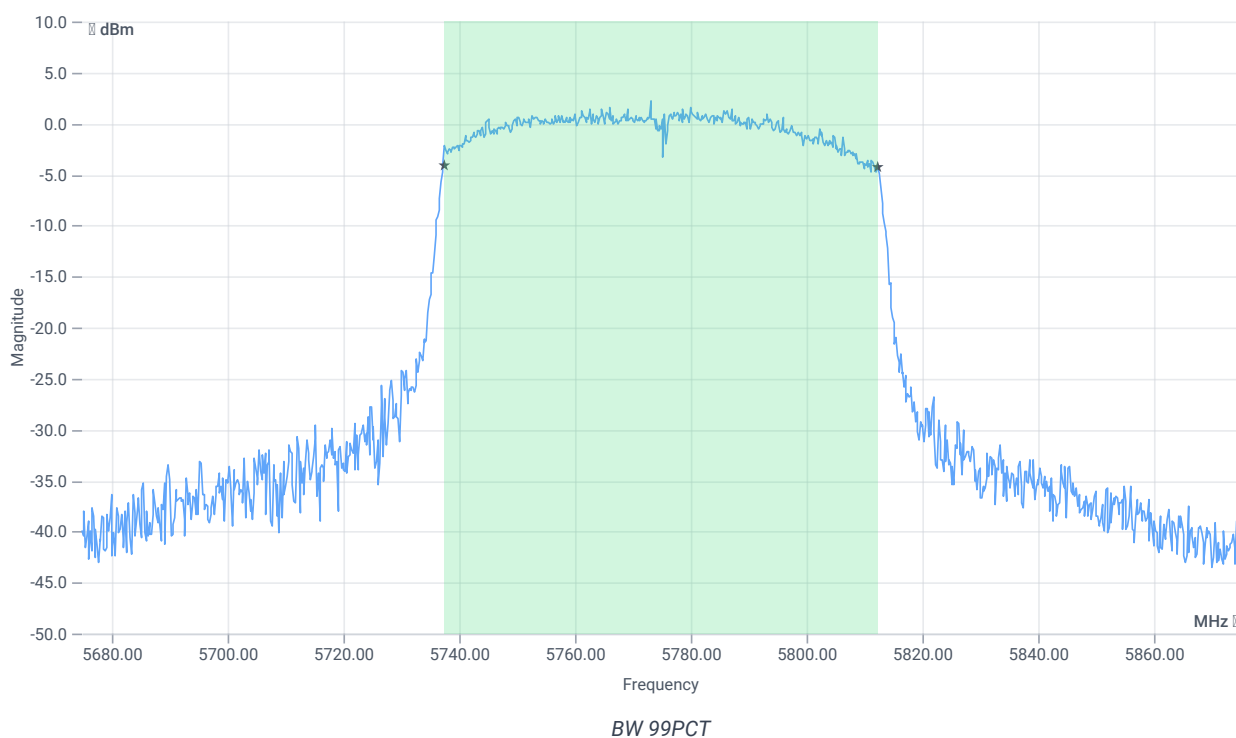
## Test at TX 5775 MHz

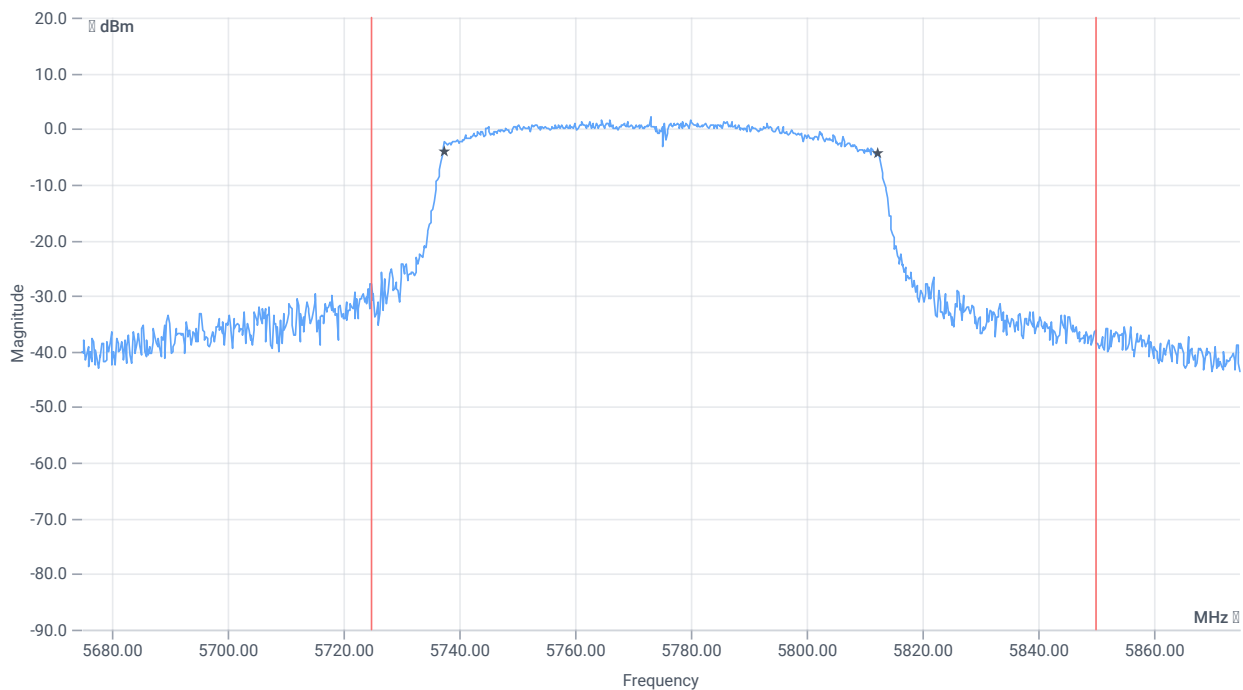
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 0.33     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5762.810 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 8.33   12.64   15     |
| Start [MHz]   Stop [MHz]                             | 5675.000   5875.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   5.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |

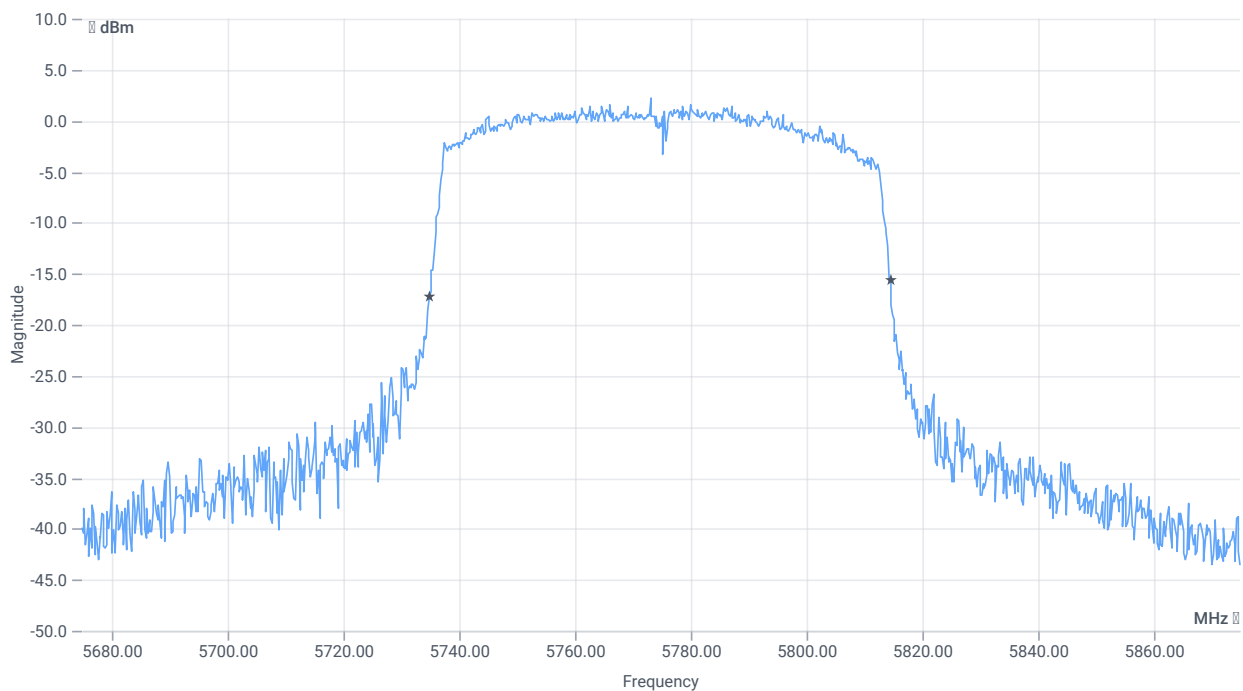




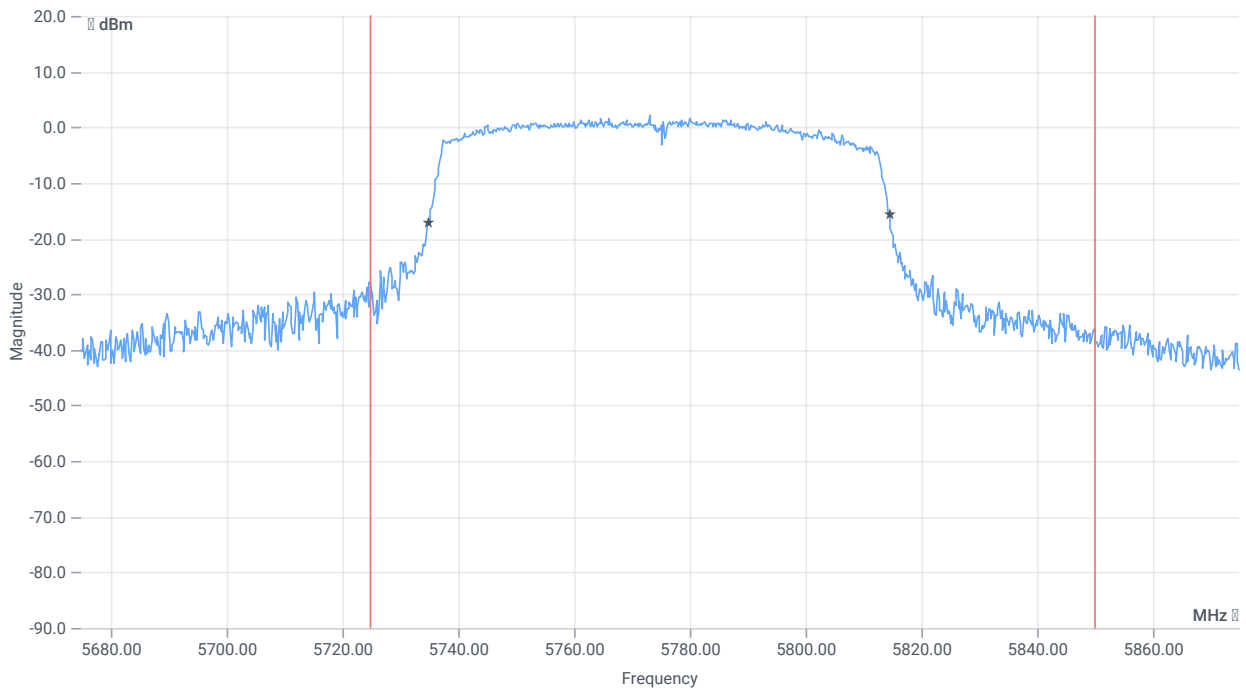
*BW within band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 74.925    | MHz  | INFO    |
| T1 99%        | 5725.000000 | ---         | 5737.4376 | MHz  | PASS    |
| T2 99%        | ---         | 5850.000000 | 5812.3626 | MHz  | PASS    |



BW 20dB



BW within band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 79.6      | MHz  | INFO    |
| T1 20dB        | 5725.000000 | ---         | 5735.0000 | MHz  | PASS    |
| T2 20dB        | ---         | 5850.000000 | 5814.6000 | MHz  | PASS    |

Verdict

PASS

## FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx ac-VHT80 mode U-NII-3

### References

|                                               |                                                                   |
|-----------------------------------------------|-------------------------------------------------------------------|
| TC start                                      | 11.03.2025 11:05:05                                               |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                         |
| System version                                | 5.1.6.0                                                           |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                                      |
| Method                                        | KDB789033 D02, C.2.                                               |
| Description                                   | FCC 15.407 Min Emission Bandwidth - WLAN5Gx ac-VHT80 mode U-NII-3 |
| Information                                   |                                                                   |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                     |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 0                      |
| Frequency mid to test                            | True   Freq [MHz] 5775                    |
| Frequency high to test                           | False   Freq [MHz] 0                      |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

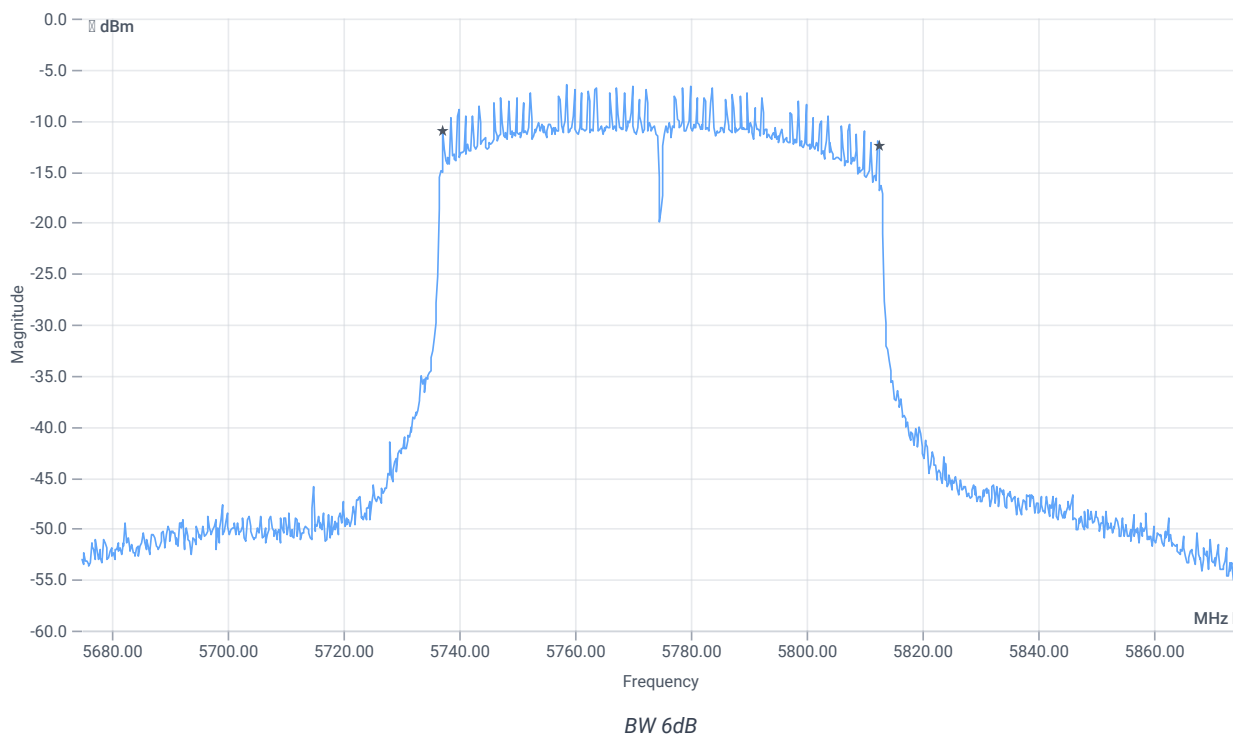
## Test at TX 5775 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 0.24     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5792.580 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 12.24   12.64   15    |
| Start [MHz]   Stop [MHz]                             | 5675.000   5875.000   |
| RBW [MHz]   VBW [MHz]                                | 0.100000   0.300000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 2   1500   1001   SWE |



### RESULT

| DESCRIPTION     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------|-------------|-------------|----------|------|---------|
| Bandwidth (6dB) | 0.500       | ---         | 75.2     | MHz  | PASS    |

#### Verdict

PASS

## FCC 15.407, ISED RSS247 # Emission mask (eirp) ~ WLAN5Gx ac-VHT80 mode U-NII-3

### References

|                                               |                                                          |
|-----------------------------------------------|----------------------------------------------------------|
| TC start                                      | 11.03.2025 11:05:34                                      |
| Ambit temp (test rack) [°C]   humidity [rel%] | not enabled   not enabled                                |
| System version                                | 5.1.6.0                                                  |
| Standard   Version                            | FCC 15.407, ISED RSS247   NI                             |
| Method                                        | NI                                                       |
| Description                                   | FCC 15.407 Emission mask - WLAN5Gx ac-VHT80 mode U-NII-3 |
| Information                                   |                                                          |

### EUT Common Settings WLAN5Gx

|                            |          |
|----------------------------|----------|
| Number of antenna ports    | 1        |
| User Interaction           | No       |
| Device class U-NII-1 (FCC) | Client   |
| Limit W52 japan            | Standard |
| TPC supported              | No       |
| Vehicle use (ISED)         | No       |

### Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0            |

### Test Parameter

|                                                  |                                           |
|--------------------------------------------------|-------------------------------------------|
| Technology to test                               | WLAN5Gx ac-VHT80 mode                     |
| EUT port                                         | EUT1                                      |
| Temperature                                      | nom                                       |
| Voltage                                          | nom                                       |
| Frequency low to test                            | False   Freq [MHz] 0                      |
| Frequency mid to test                            | True   Freq [MHz] 5775                    |
| Frequency high to test                           | False   Freq [MHz] 0                      |
| Auto control enabled power supply   Climatic Box | No   No                                   |
| Additional path loss [dB]                        | 0                                         |
| Full path type                                   | EUT_SA_GEN_SIG                            |
| Full path name                                   | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001       |

## Test at TX 5775 MHz

Number of antenna ports: 1

reduction of limit due to number of antenna ports [dB]: 0

RESULT: Reference power cond.

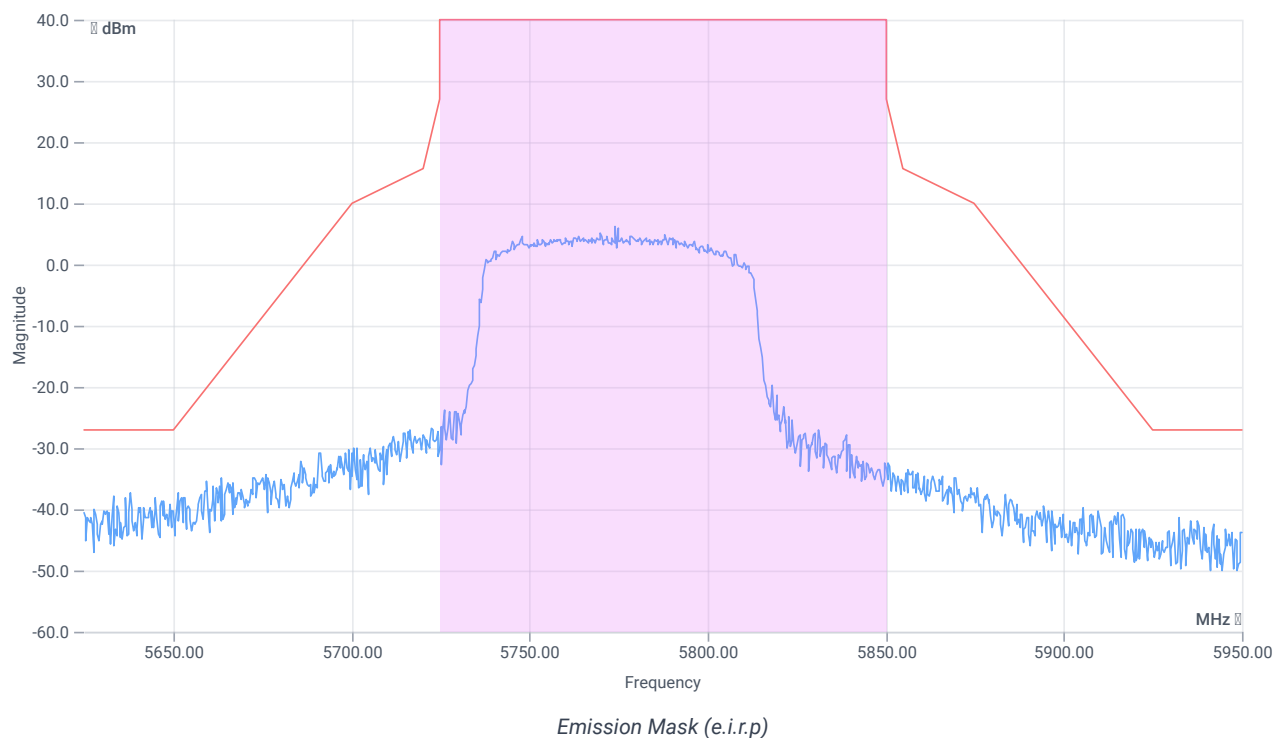
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 0.88     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5760.810 | MHz  | INFO    |

## Antenna gain

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Considered antenna gain [dBi]: | 3.4 / max found in range 5625 to 5950 MHz |
|--------------------------------|-------------------------------------------|

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 3.88   12.64   10     |
| Start [MHz]   Stop [MHz]                             | 5625.000   5950.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | POS   MAXH            |
| Sweep: time [ms]   count   points per Section   type | 1   2500   1001   SWE |



## RESULT

| DESCRIPTION                                                           | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT                                                                 |
|-----------------------------------------------------------------------|-------------|-------------|----------|------|-------------------------------------------------------------------------|
| cetecom advanced GmbH<br>Untertürkheimer Str. 6-10, 66117 Saarbrücken |             |             |          |      | Document No. 1-8801-24-01-18_TR1-A201-R1<br>Release 1 - Page 174 of 175 |

Verdict

PASS

- END OF DOCUMENT -