

# Conducted test results

No.1-7974-24-01-02\_TR1-A201-R1

July 16, 2024

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

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| FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-3                     | 65  |
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# FCC 15.407, ISED RSS247 # Bandwidths 99PCT and 20dB ~ WLAN5Gx a mode U-NII-3

## References

|                                   |                                                  |
|-----------------------------------|--------------------------------------------------|
| TC start                          | 05.07.2024 12:07:30                              |
| Ambit temp [°C]   humidity [rel%] | 22.8   47                                        |
| System version                    | 5.0.7.0                                          |
| 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       |

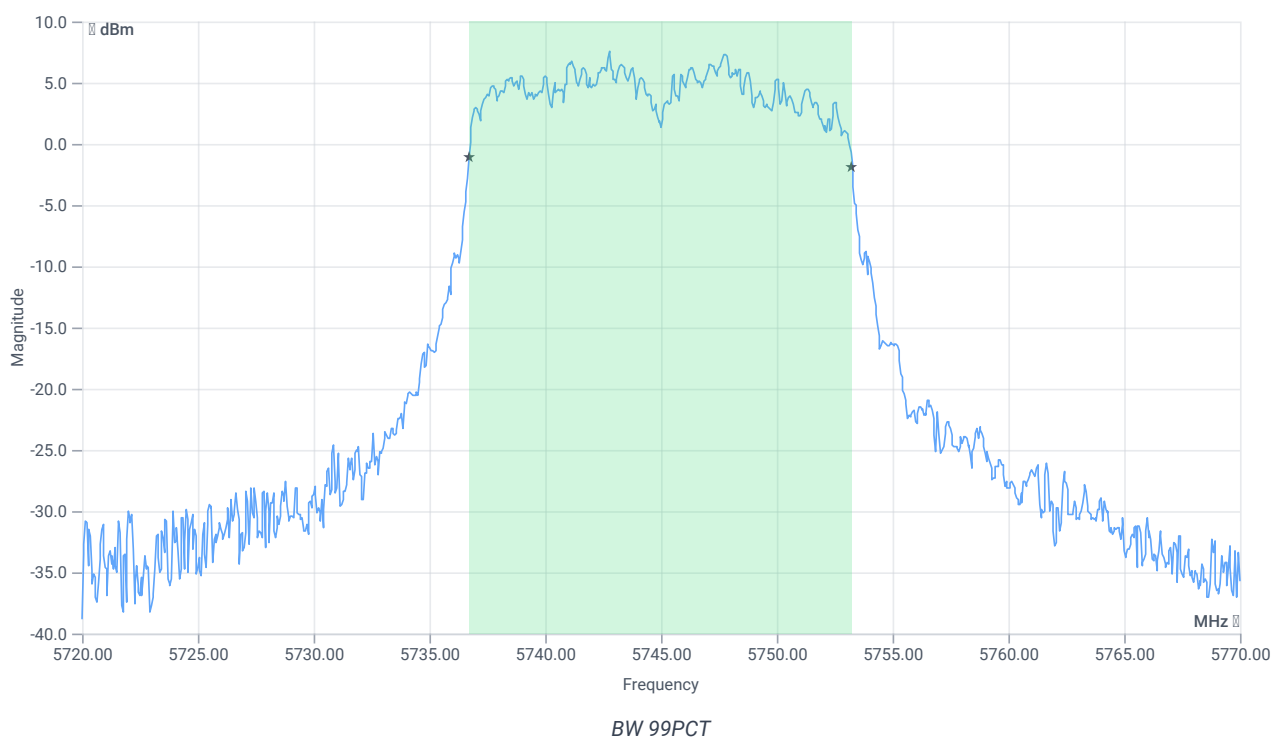
## Test at TX 5745 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 12.09    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5747.200 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.09   12.82   25    |
| 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 |

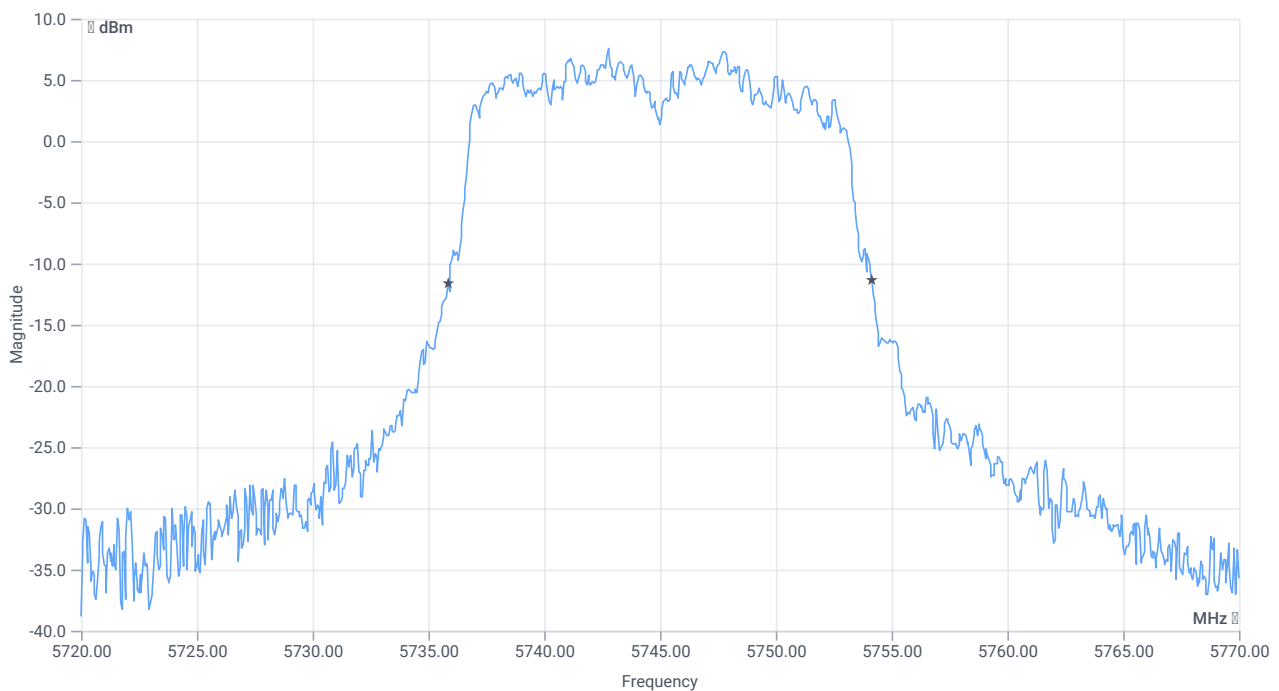




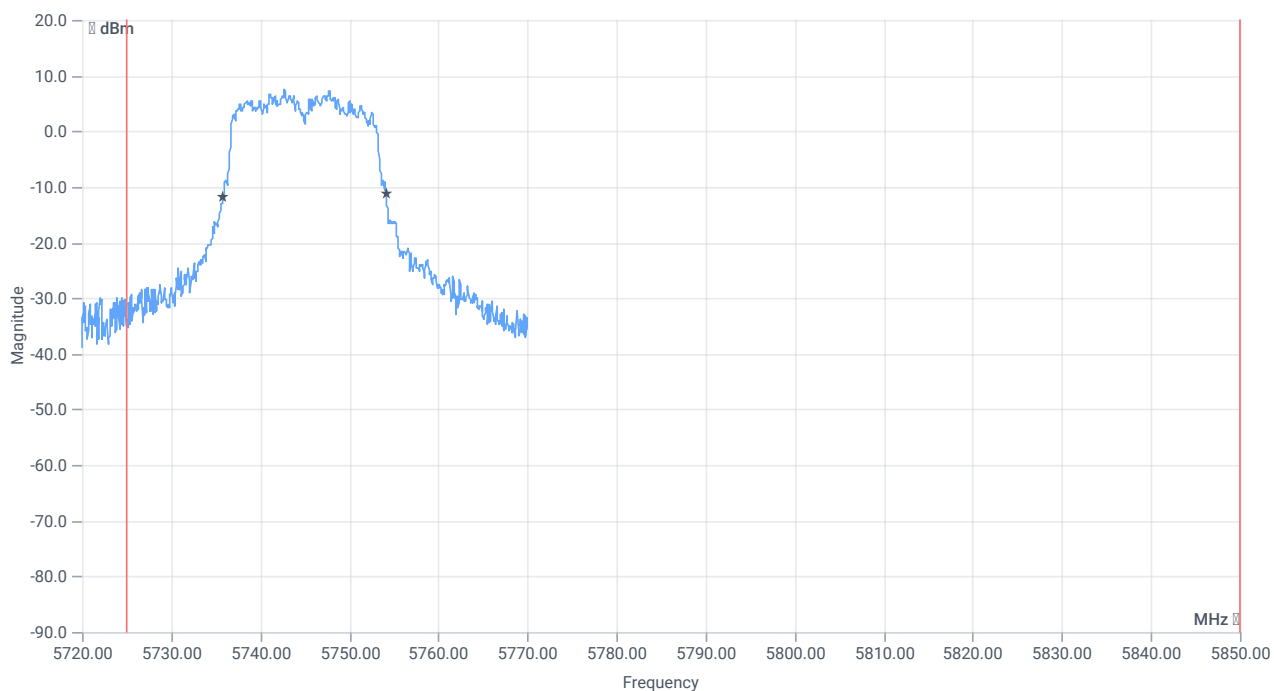
*BW within band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 16.533    | MHz  | INFO    |
| T1 99%        | 5725.000000 | ---         | 5736.7083 | MHz  | PASS    |
| T2 99%        | ---         | 5850.000000 | 5753.2418 | MHz  | PASS    |



BW 20dB



BW within band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 18.3      | MHz  | INFO    |
| T1 20dB        | 5725.000000 | ---         | 5735.8500 | MHz  | PASS    |
| T2 20dB        | ---         | 5850.000000 | 5754.1500 | MHz  | PASS    |

Verdict

PASS

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

## References

|                                   |                                                  |
|-----------------------------------|--------------------------------------------------|
| TC start                          | 05.07.2024 12:14:28                              |
| Ambit temp [°C]   humidity [rel%] | 22.9   47                                        |
| System version                    | 5.0.7.0                                          |
| 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       |

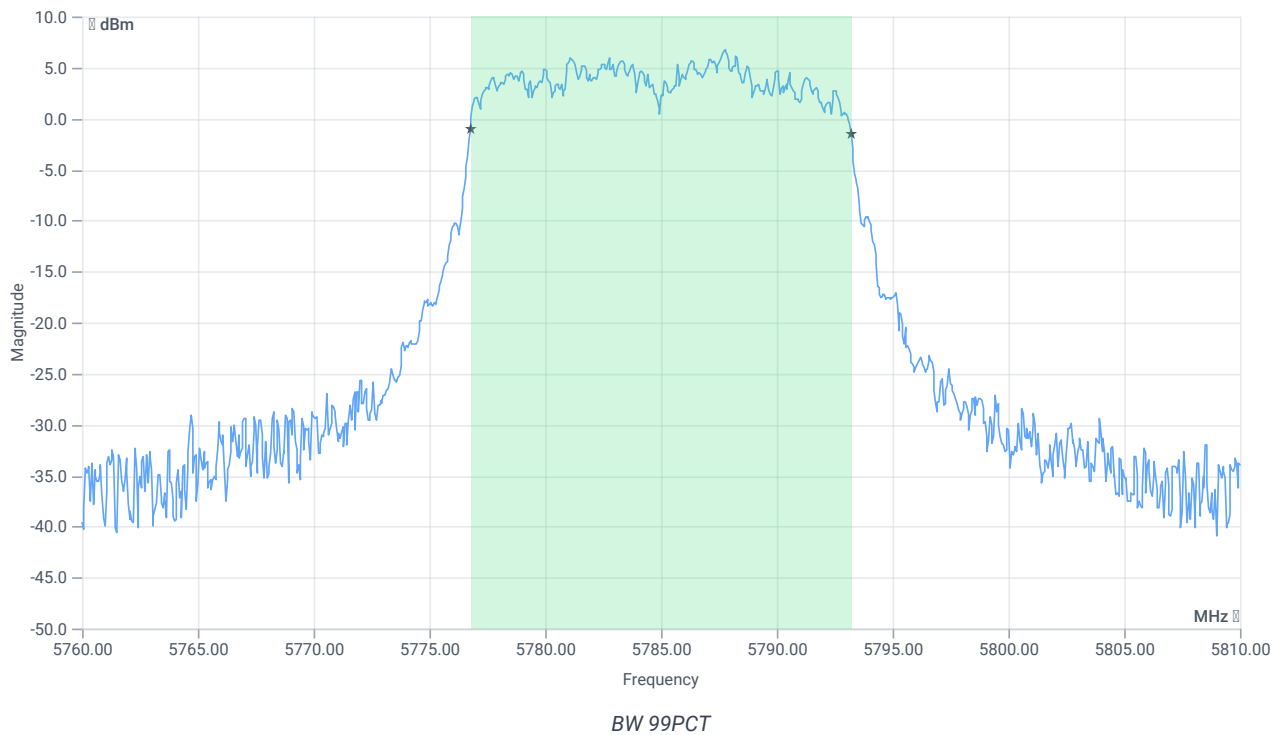
## Test at TX 5785 MHz

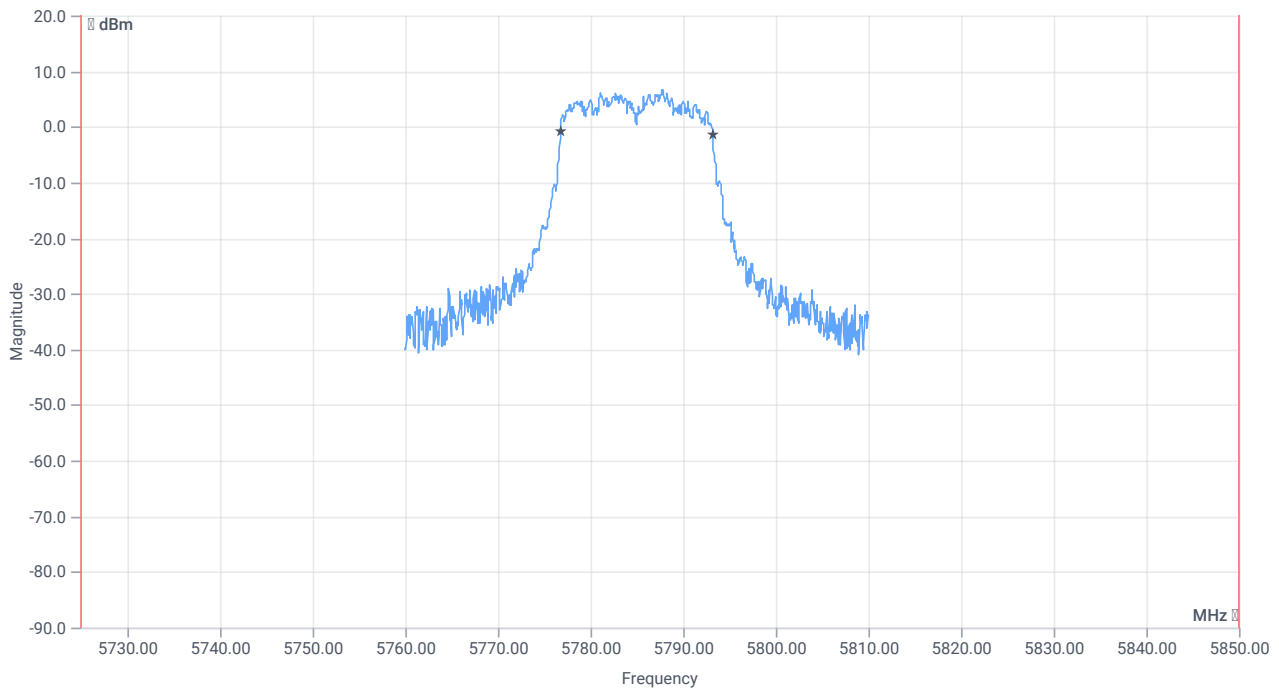
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 11.75    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5786.000 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.75   12.95   25    |
| 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 |

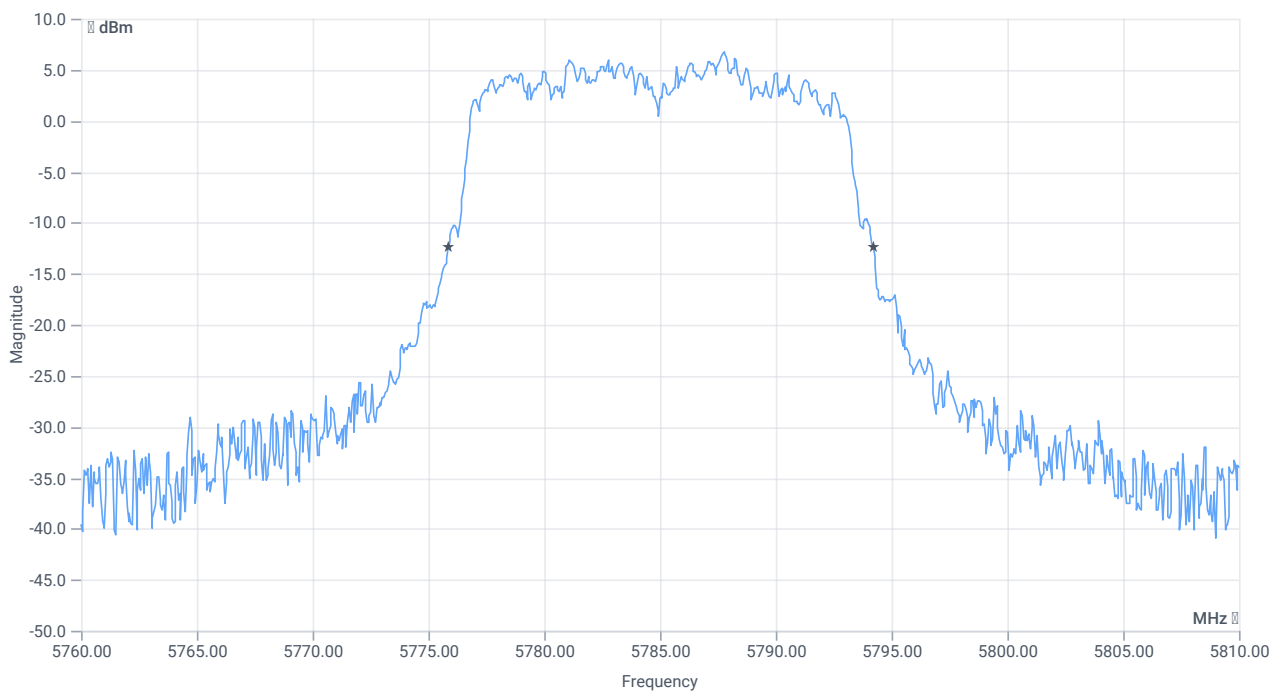




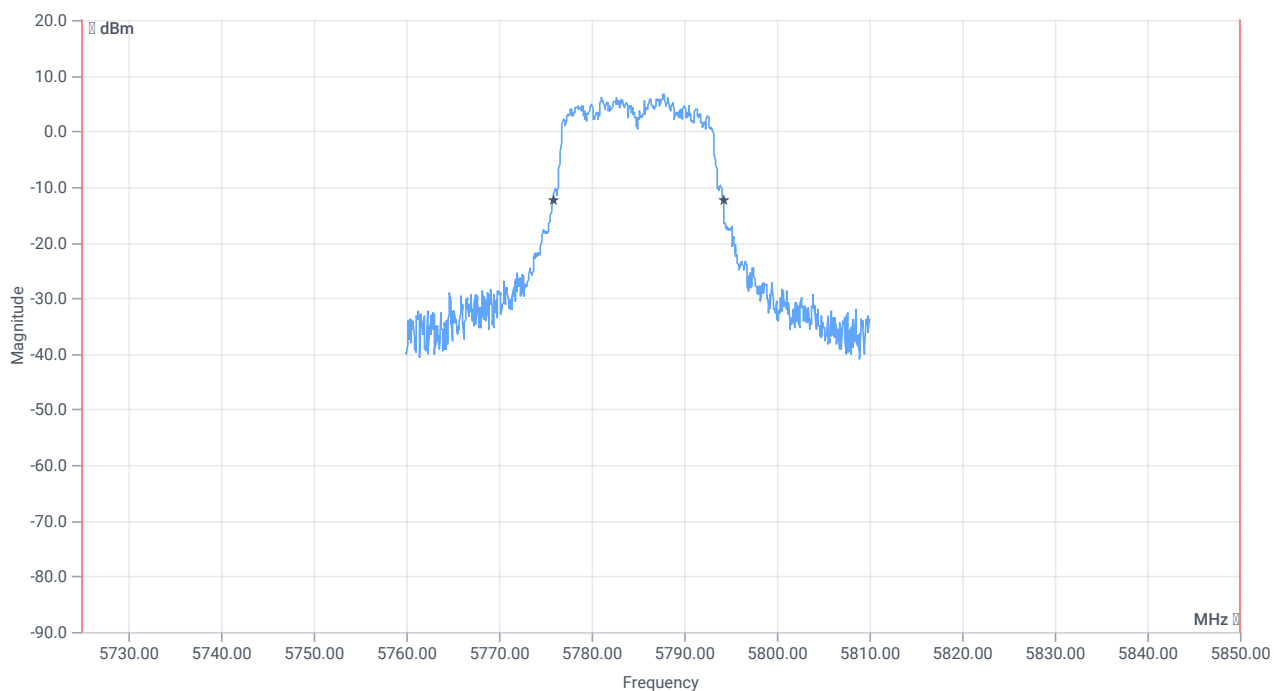
*BW within band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 16.434    | MHz  | INFO    |
| T1 99%        | 5725.000000 | ---         | 5776.7582 | MHz  | PASS    |
| T2 99%        | ---         | 5850.000000 | 5793.1918 | MHz  | PASS    |



BW 20dB



BW within band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 18.35     | MHz  | INFO    |
| T1 20dB        | 5725.000000 | ---         | 5775.8500 | MHz  | PASS    |
| T2 20dB        | ---         | 5850.000000 | 5794.2000 | MHz  | PASS    |

Verdict

PASS

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

### References

|                                   |                                                  |
|-----------------------------------|--------------------------------------------------|
| TC start                          | 05.07.2024 12:19:39                              |
| Ambit temp [°C]   humidity [rel%] | 23.0   46                                        |
| System version                    | 5.0.7.0                                          |
| 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       |

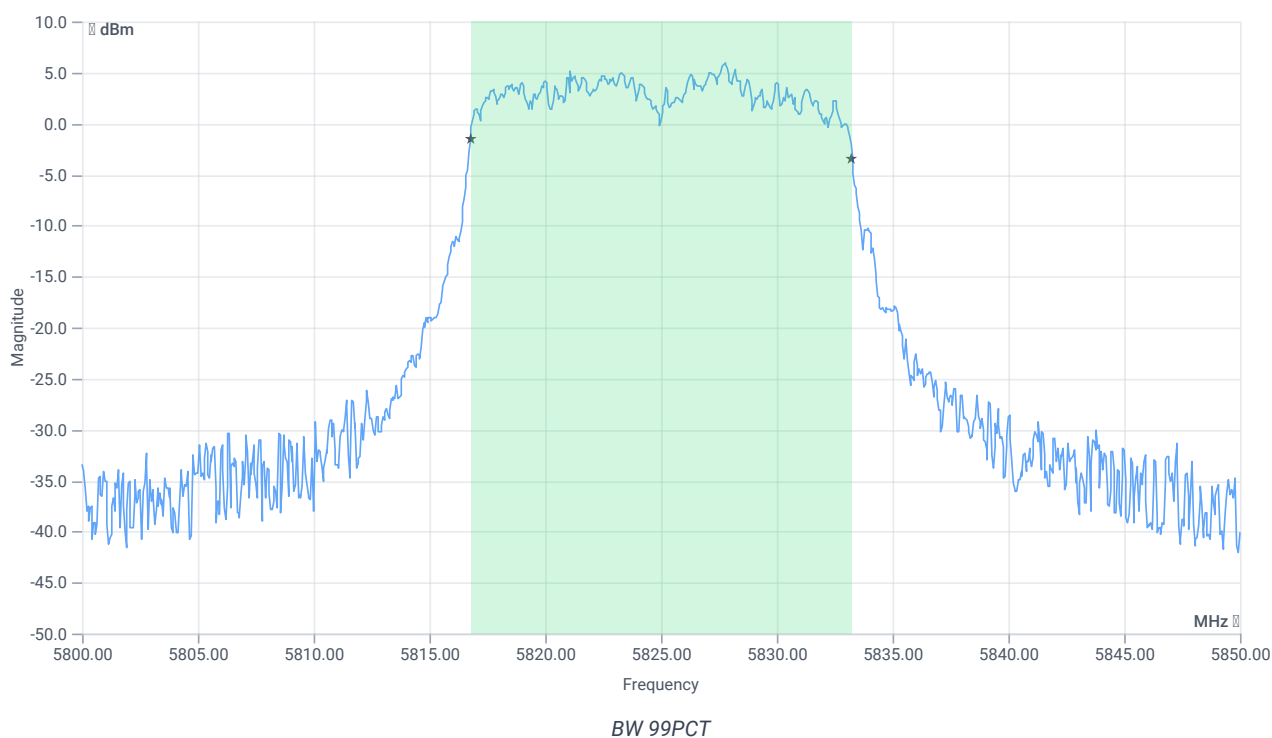
## Test at TX 5825 MHz

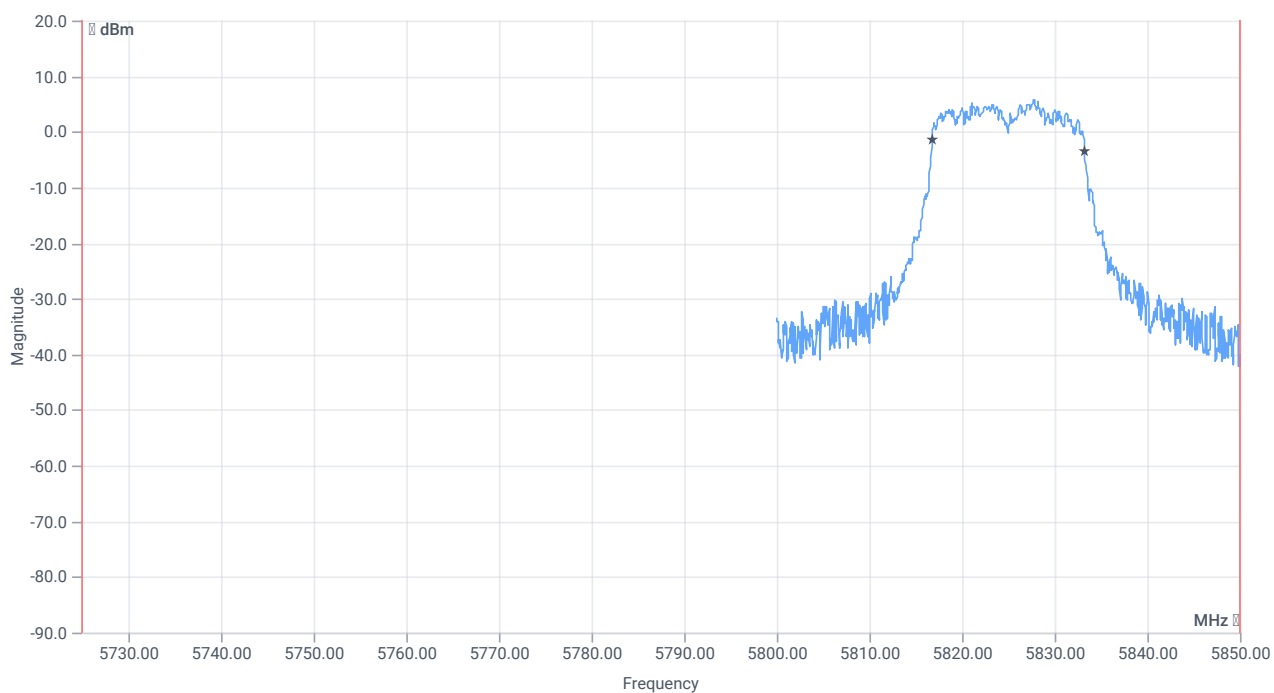
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 10.97    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5826.600 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.97   12.88   25    |
| 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 |

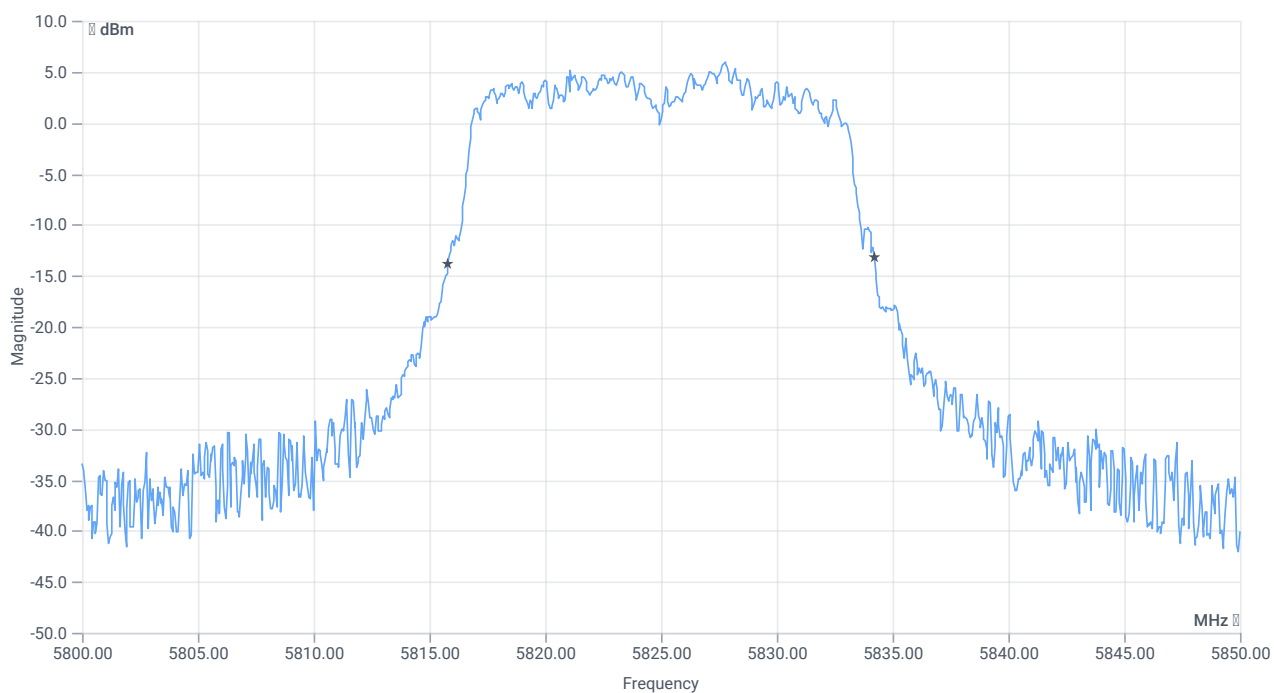




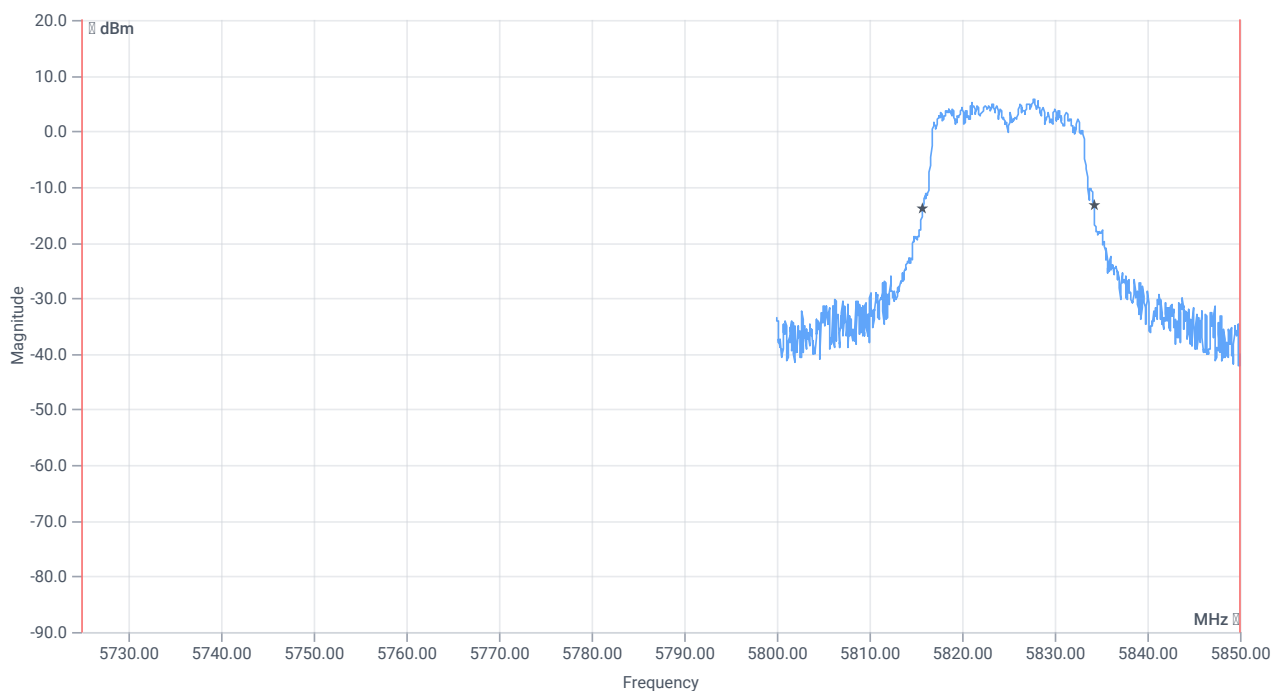
*BW within band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 16.484    | MHz  | INFO    |
| T1 99%        | 5725.000000 | ---         | 5816.7582 | MHz  | PASS    |
| T2 99%        | ---         | 5850.000000 | 5833.2418 | MHz  | PASS    |



BW 20dB



BW within band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 18.4      | MHz  | INFO    |
| T1 20dB        | 5725.000000 | ---         | 5815.8000 | MHz  | PASS    |
| T2 20dB        | ---         | 5850.000000 | 5834.2000 | MHz  | PASS    |

Verdict

PASS

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

### References

|                                   |                                                     |
|-----------------------------------|-----------------------------------------------------|
| TC start                          | 05.07.2024 12:30:05                                 |
| Ambit temp [°C]   humidity [rel%] | 23.1   46                                           |
| System version                    | 5.0.7.0                                             |
| 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       |

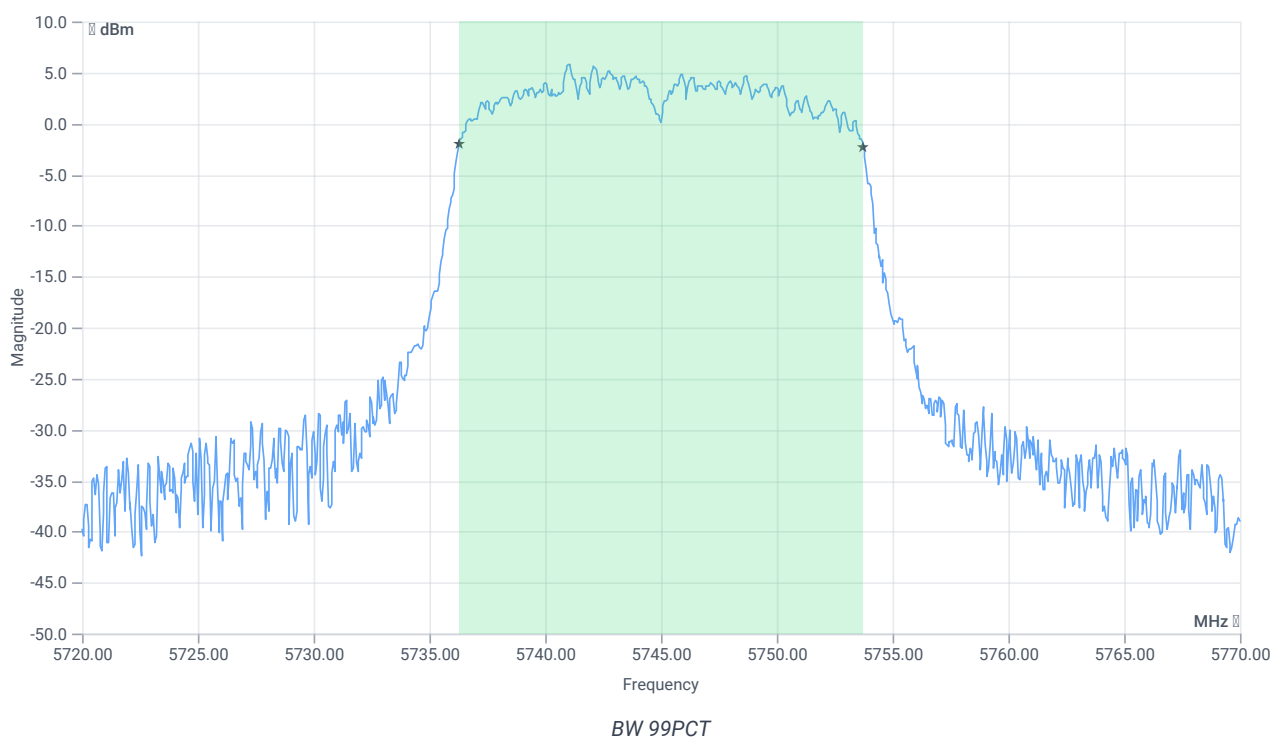
## Test at TX 5745 MHz

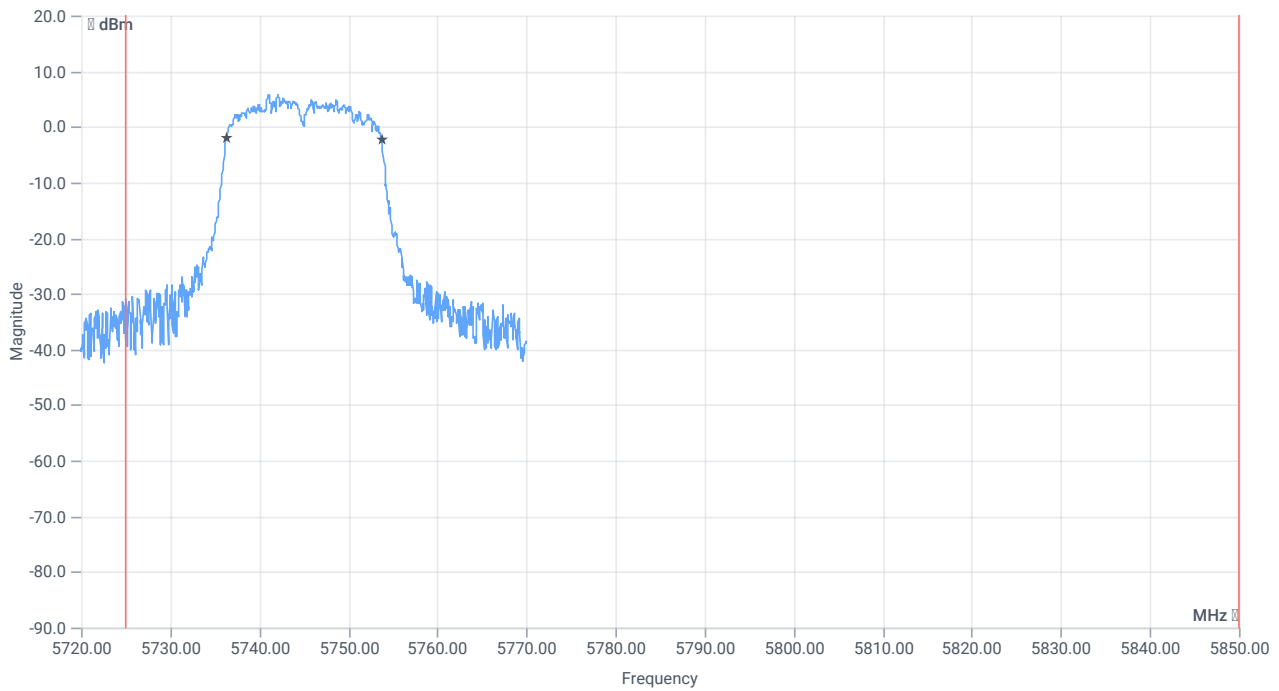
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 9.98     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5741.400 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 17.98   12.82   25    |
| 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 |

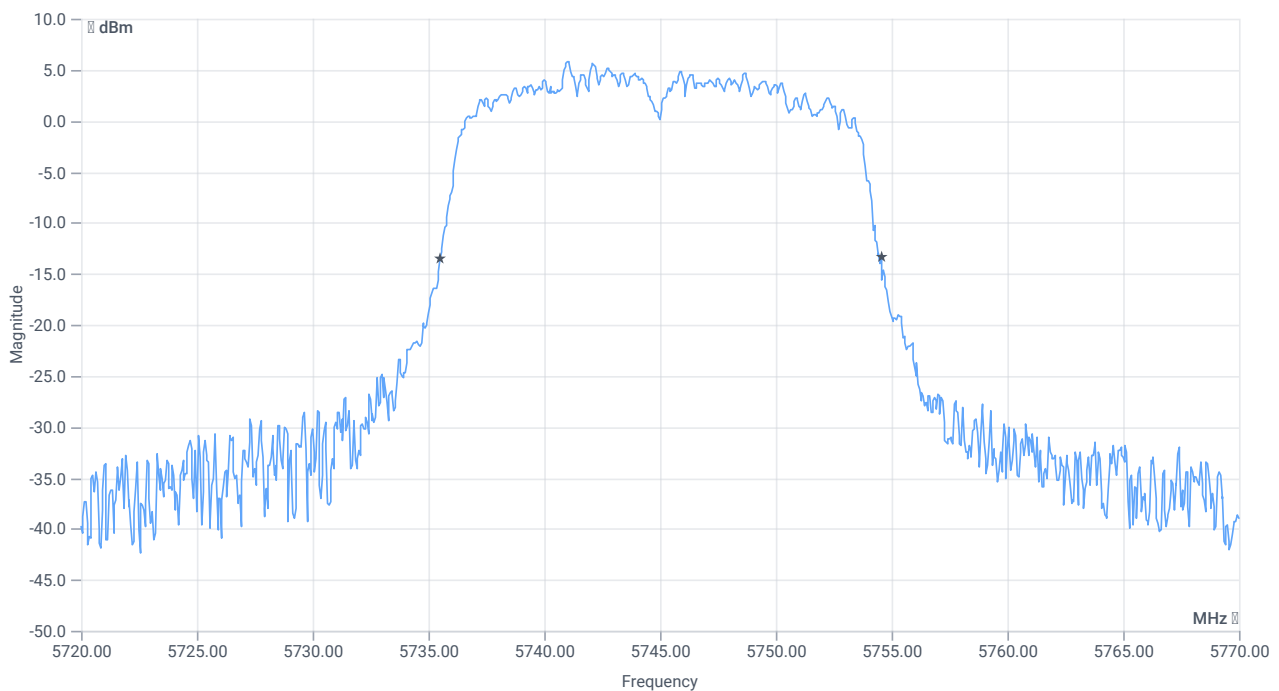




*BW within band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 17.483    | MHz  | INFO    |
| T1 99%        | 5725.000000 | ---         | 5736.2587 | MHz  | PASS    |
| T2 99%        | ---         | 5850.000000 | 5753.7413 | 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 | ---         | 5735.5000 | MHz  | PASS    |
| T2 20dB        | ---         | 5850.000000 | 5754.5500 | MHz  | PASS    |

Verdict

PASS

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

### References

|                                   |                                                     |
|-----------------------------------|-----------------------------------------------------|
| TC start                          | 05.07.2024 12:45:08                                 |
| Ambit temp [°C]   humidity [rel%] | 23.3   46                                           |
| System version                    | 5.0.7.0                                             |
| 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       |

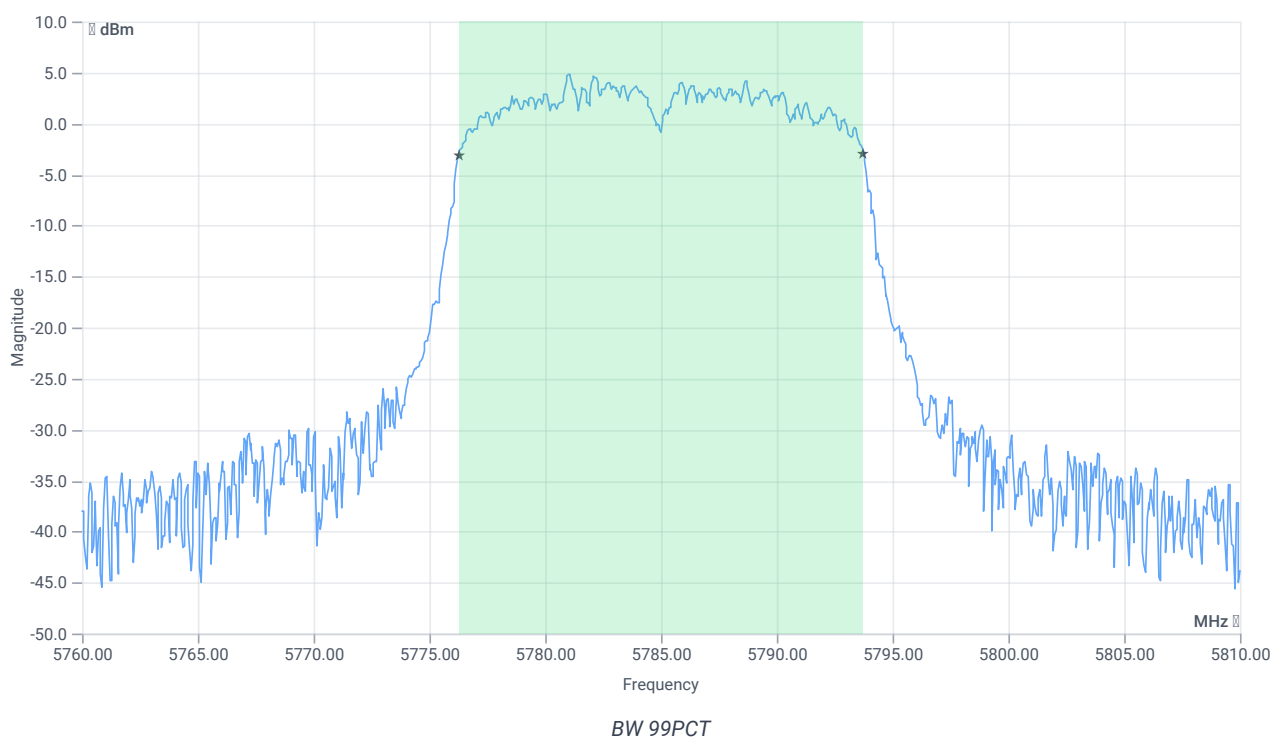
## Test at TX 5785 MHz

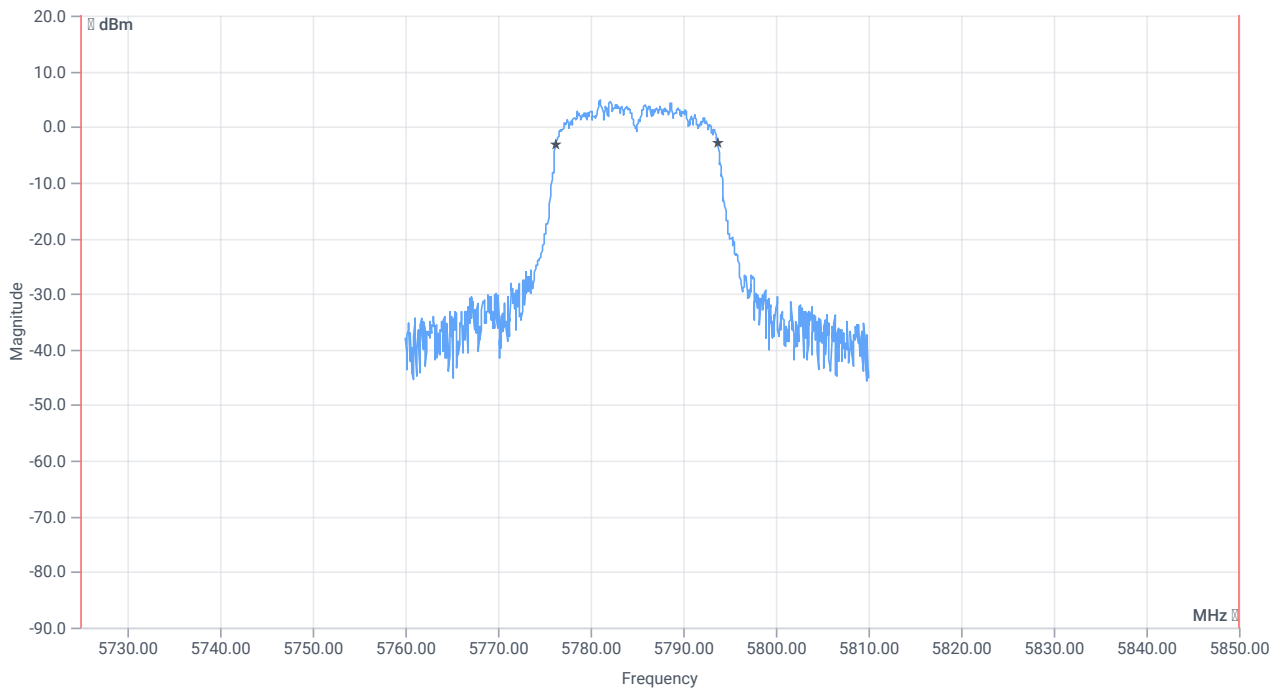
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 8.92     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5780.400 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 16.92   12.95   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 |

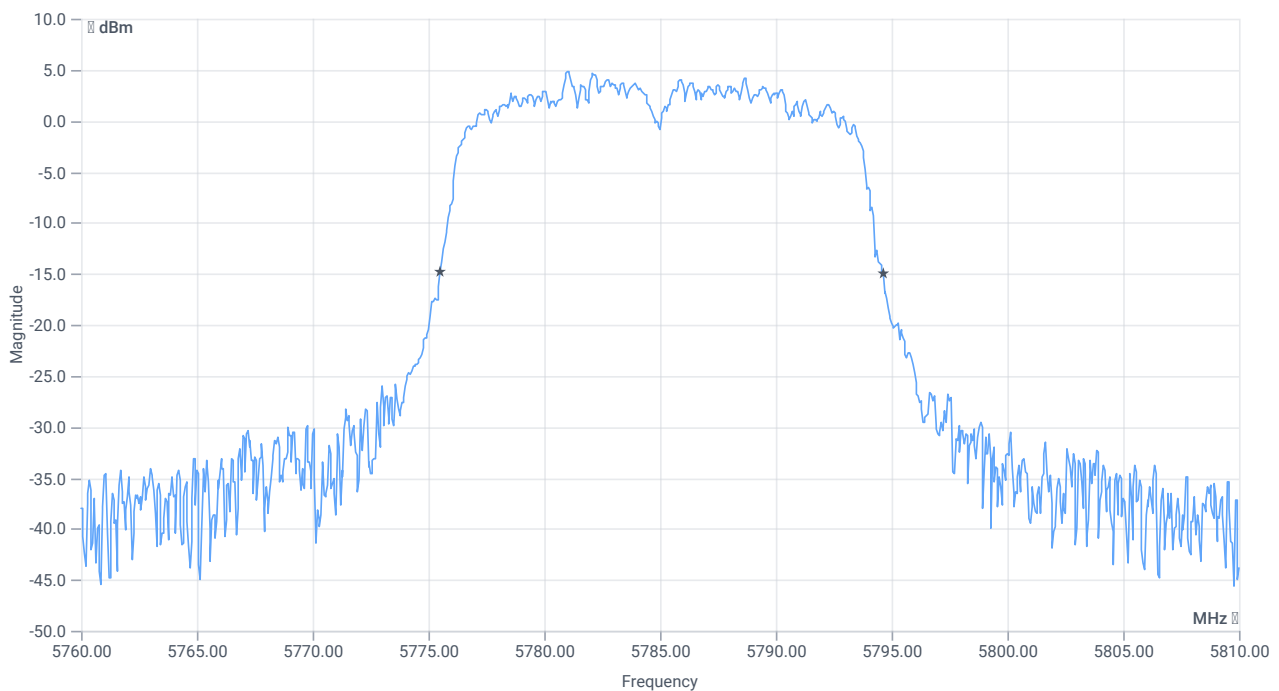




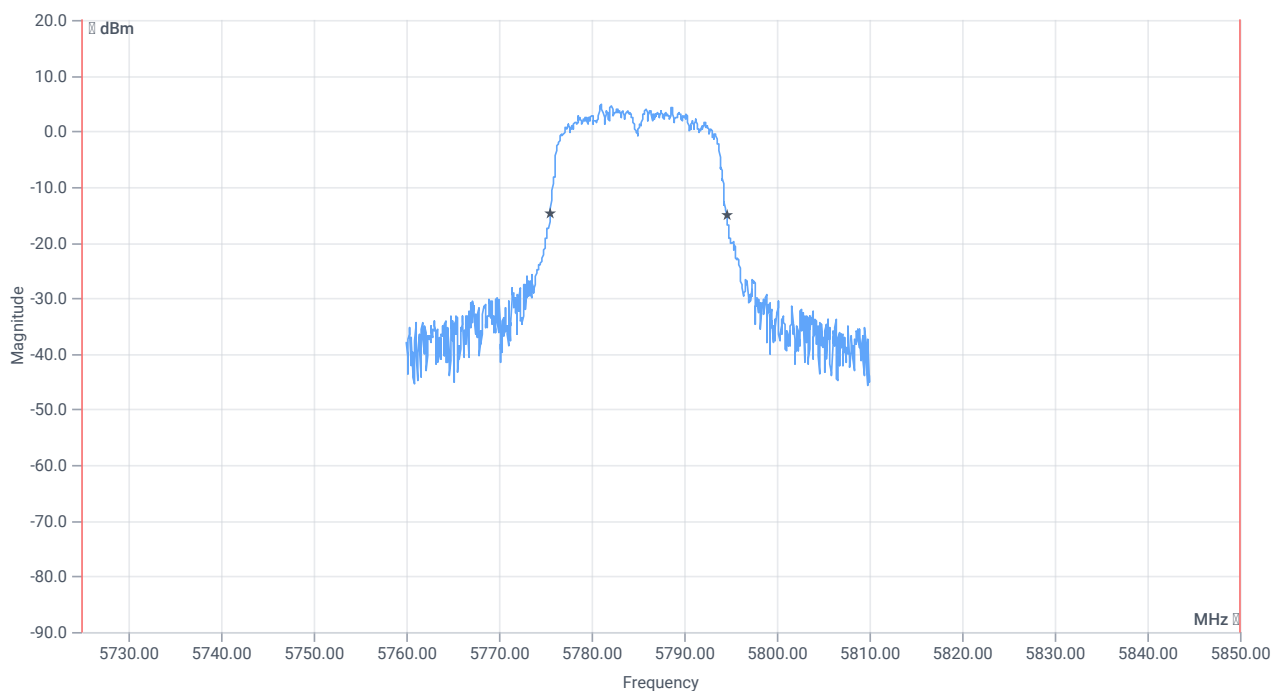
*BW within band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 17.483    | MHz  | INFO    |
| T1 99%        | 5725.000000 | ---         | 5776.2587 | MHz  | PASS    |
| T2 99%        | ---         | 5850.000000 | 5793.7413 | MHz  | PASS    |



BW 20dB



BW within band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 19.15     | MHz  | INFO    |
| T1 20dB        | 5725.000000 | ---         | 5775.5000 | MHz  | PASS    |
| T2 20dB        | ---         | 5850.000000 | 5794.6500 | MHz  | PASS    |

Verdict

PASS

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

### References

|                                   |                                                     |
|-----------------------------------|-----------------------------------------------------|
| TC start                          | 05.07.2024 13:01:46                                 |
| Ambit temp [°C]   humidity [rel%] | 23.4   45                                           |
| System version                    | 5.0.7.0                                             |
| 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       |

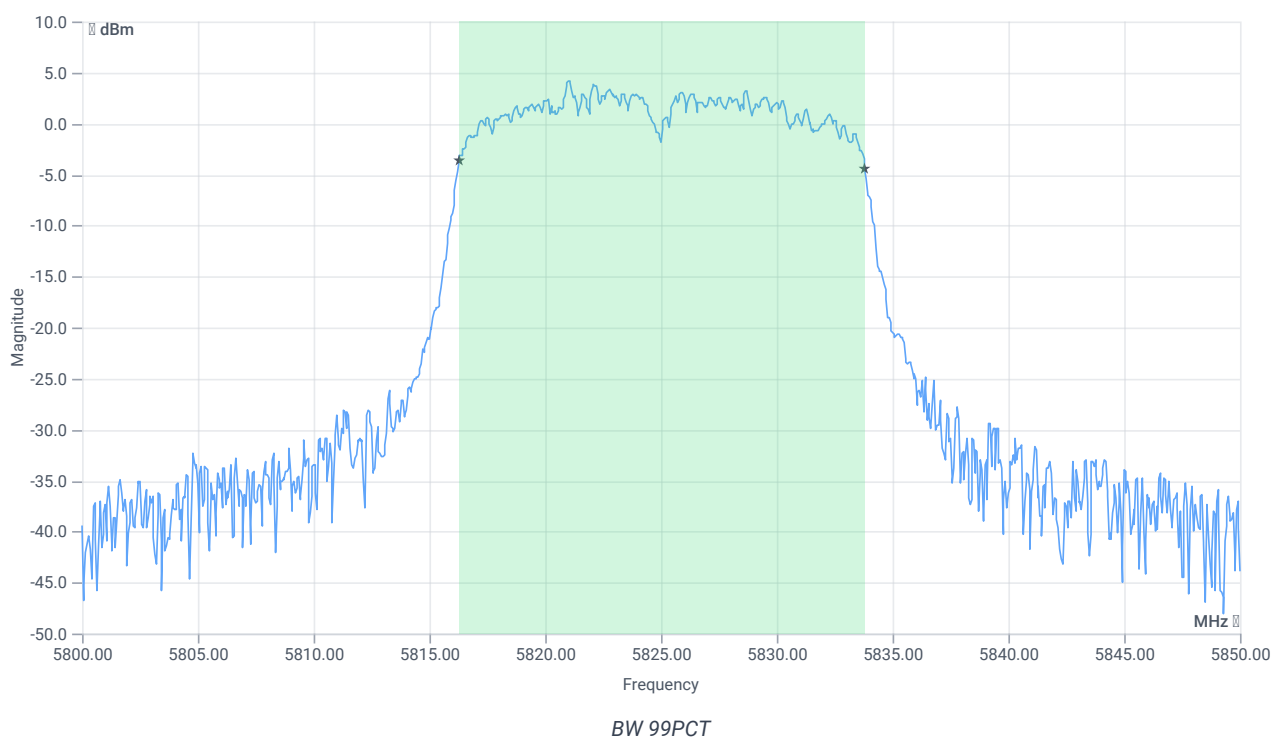
## Test at TX 5825 MHz

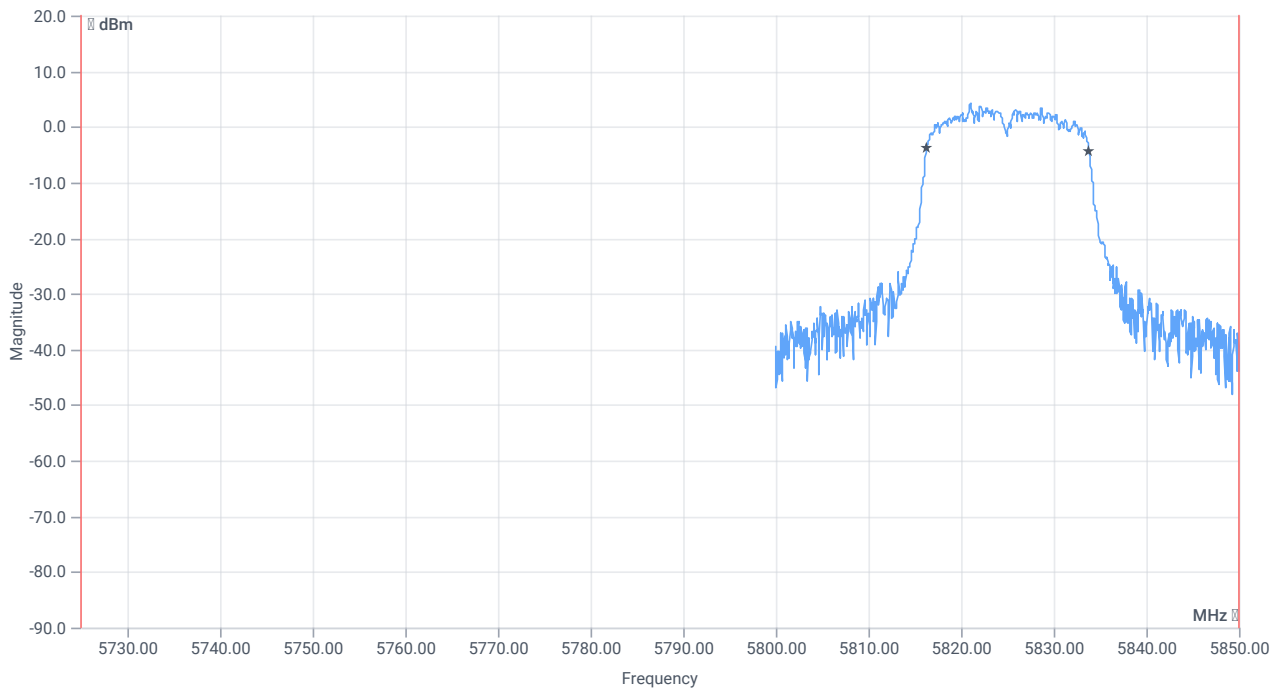
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 8.35     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5829.600 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 16.35   12.88   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 |

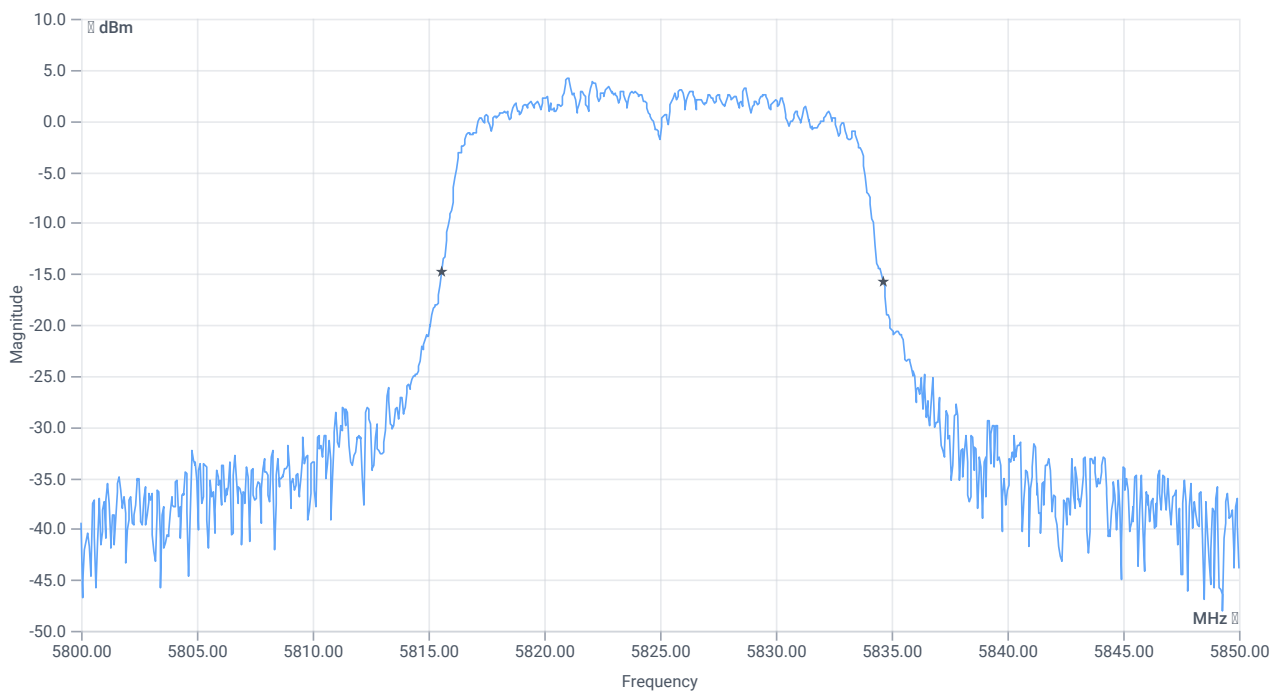




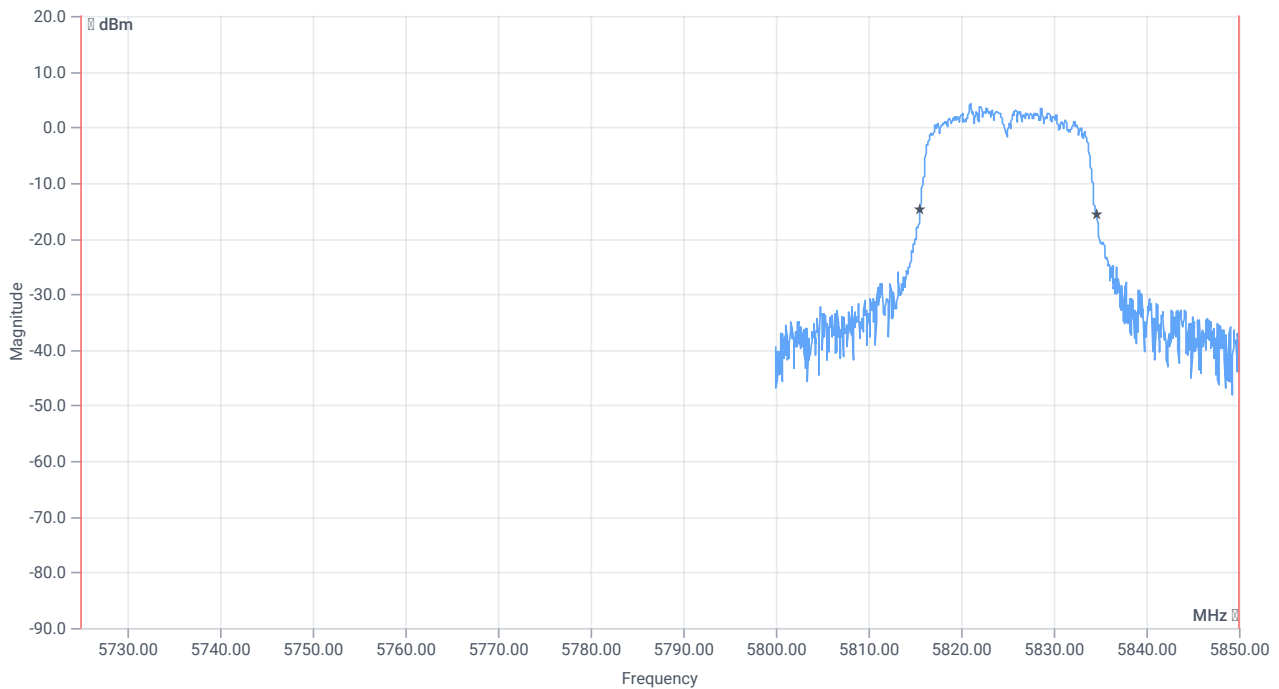
*BW within band 99PCT*

## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 17.532    | MHz  | INFO    |
| T1 99%        | 5725.000000 | ---         | 5816.2587 | MHz  | PASS    |
| T2 99%        | ---         | 5850.000000 | 5833.7912 | MHz  | PASS    |



BW 20dB



BW within band 20dB

## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | ---         | ---         | 19.1      | MHz  | INFO    |
| T1 20dB        | 5725.000000 | ---         | 5815.5500 | MHz  | PASS    |
| T2 20dB        | ---         | 5850.000000 | 5834.6500 | MHz  | PASS    |

Verdict

PASS

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

## References

|                                   |                                                   |
|-----------------------------------|---------------------------------------------------|
| TC start                          | 05.07.2024 12:09:02                               |
| Ambit temp [°C]   humidity [rel%] | 22.9   47                                         |
| System version                    | 5.0.7.0                                           |
| 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.

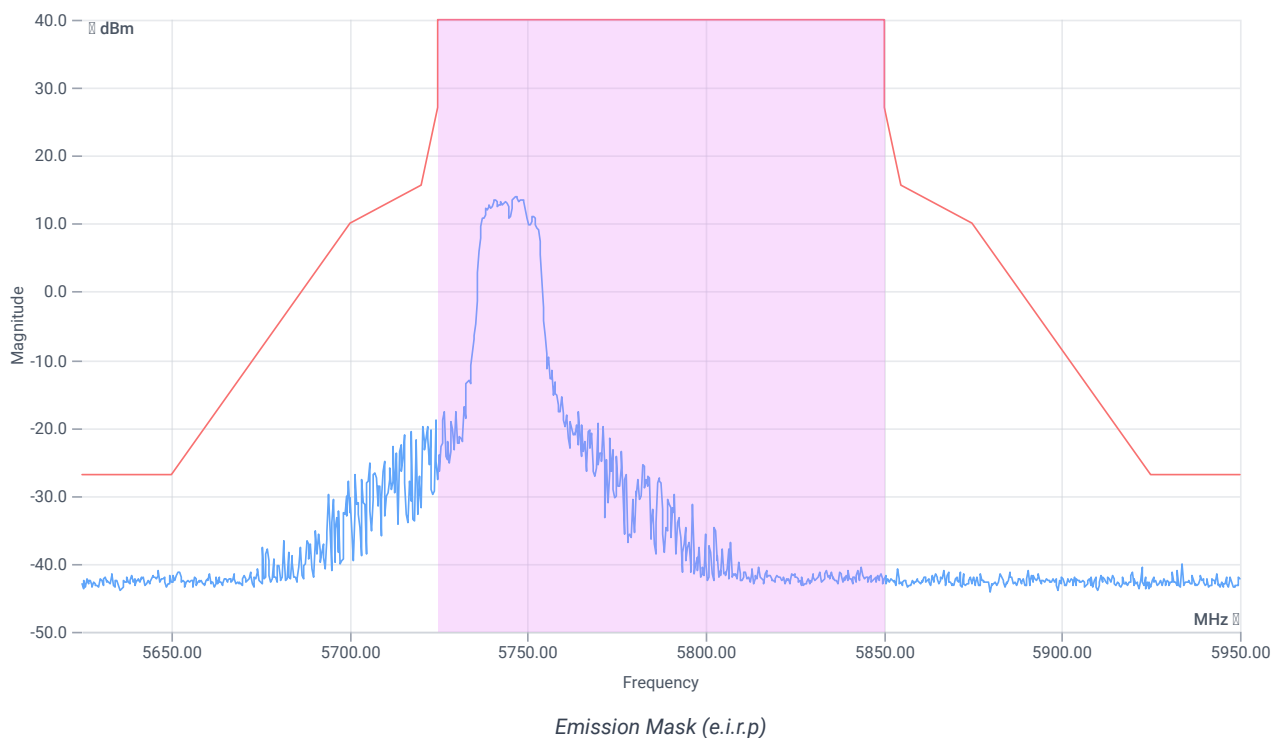
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 12.20    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5740.800 | MHz  | INFO    |

## Antenna gain

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Considered antenna gain [dBi]: | 1.4 / max found in range 5625 to 5950 MHz |
|--------------------------------|-------------------------------------------|

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 15.20   12.82   20    |
| 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. 1-7974-24-01-02_TR1-A201-R1<br>Release 1 - Page 28 of 117 |      |         |

Verdict

PASS

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

### References

|                                   |                                                   |
|-----------------------------------|---------------------------------------------------|
| TC start                          | 05.07.2024 12:16:04                               |
| Ambit temp [°C]   humidity [rel%] | 22.9   47                                         |
| System version                    | 5.0.7.0                                           |
| 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.

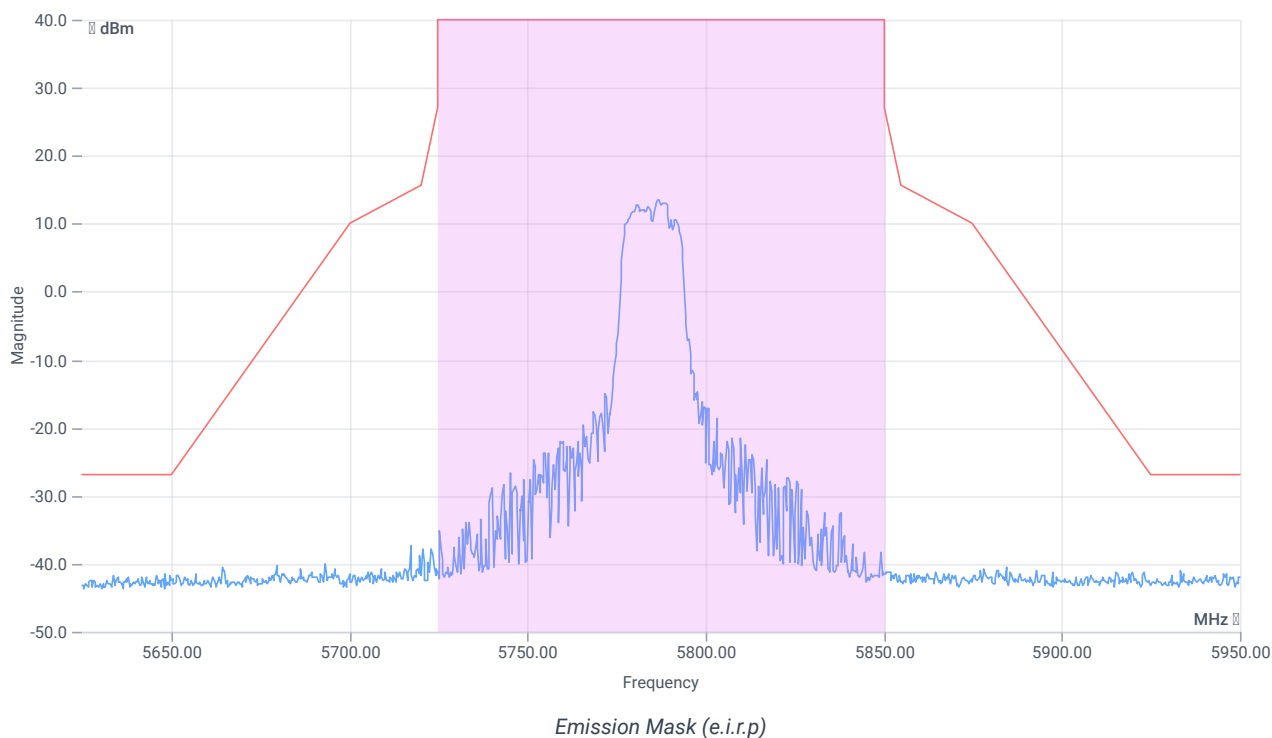
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 11.88    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5782.400 | MHz  | INFO    |

## Antenna gain

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Considered antenna gain [dBi]: | 1.4 / max found in range 5625 to 5950 MHz |
|--------------------------------|-------------------------------------------|

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 14.88   12.95   20    |
| 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. 1-7974-24-01-02_TR1-A201-R1<br>Release 1 - Page 31 of 117 |

Verdict

PASS

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

### References

|                                   |                                                   |
|-----------------------------------|---------------------------------------------------|
| TC start                          | 05.07.2024 12:20:54                               |
| Ambit temp [°C]   humidity [rel%] | 23.0   47                                         |
| System version                    | 5.0.7.0                                           |
| 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.

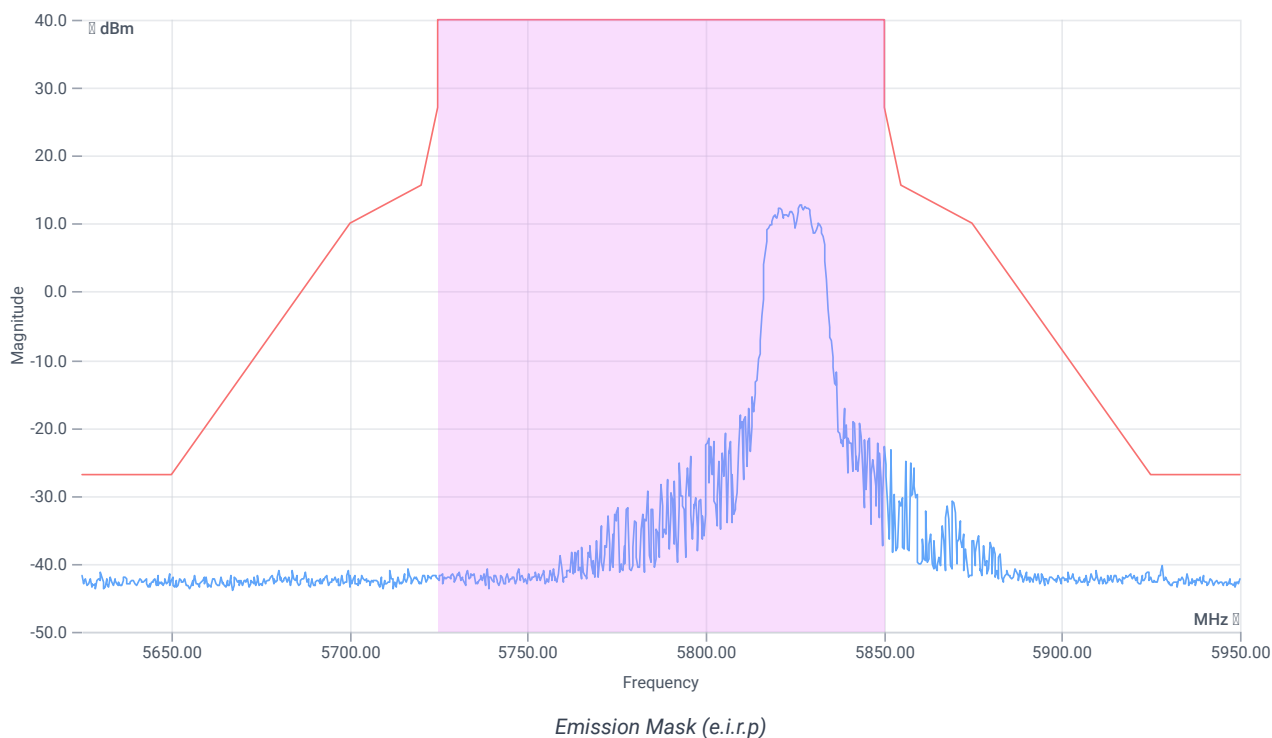
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 10.94    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5826.000 | MHz  | INFO    |

## Antenna gain

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Considered antenna gain [dBi]: | 1.4 / max found in range 5625 to 5950 MHz |
|--------------------------------|-------------------------------------------|

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 13.94   12.88   20    |
| 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. 1-7974-24-01-02_TR1-A201-R1<br>Release 1 - Page 34 of 117 |

Verdict

PASS

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

## References

|                                   |                                                        |
|-----------------------------------|--------------------------------------------------------|
| TC start                          | 05.07.2024 12:31:20                                    |
| Ambit temp [°C]   humidity [rel%] | 23.1   46                                              |
| System version                    | 5.0.7.0                                                |
| 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.

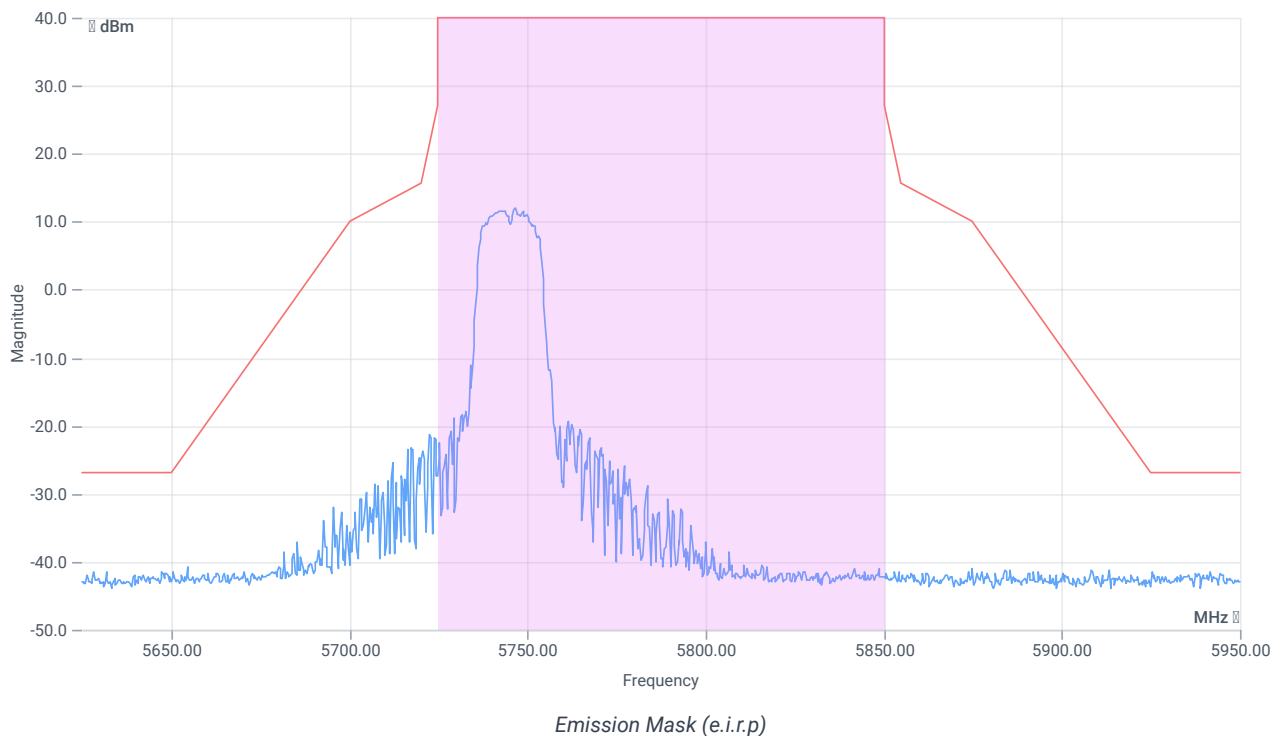
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 10.04    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5741.400 | MHz  | INFO    |

## Antenna gain

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Considered antenna gain [dBi]: | 1.4 / max found in range 5625 to 5950 MHz |
|--------------------------------|-------------------------------------------|

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 13.04   12.82   20    |
| 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. 1-7974-24-01-02_TR1-A201-R1<br>Release 1 - Page 37 of 117 |      |         |

Verdict

PASS

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

## References

|                                   |                                                        |
|-----------------------------------|--------------------------------------------------------|
| TC start                          | 05.07.2024 12:46:28                                    |
| Ambit temp [°C]   humidity [rel%] | 23.3   46                                              |
| System version                    | 5.0.7.0                                                |
| 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.

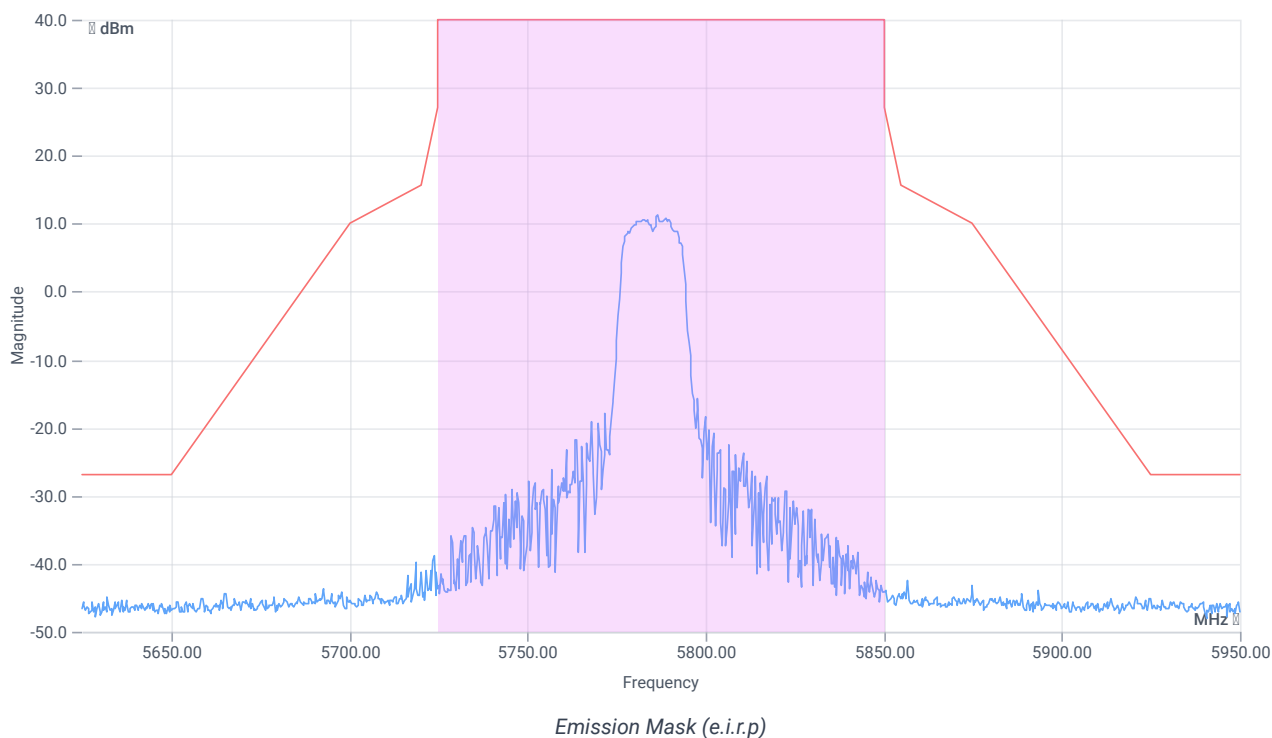
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 9.17     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5788.600 | MHz  | INFO    |

## Antenna gain

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Considered antenna gain [dBi]: | 1.4 / max found in range 5625 to 5950 MHz |
|--------------------------------|-------------------------------------------|

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 12.17   12.95   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. 1-7974-24-01-02_TR1-A201-R1<br>Release 1 - Page 40 of 117 |      |         |

Verdict

PASS

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

## References

|                                   |                                                        |
|-----------------------------------|--------------------------------------------------------|
| TC start                          | 05.07.2024 13:03:01                                    |
| Ambit temp [°C]   humidity [rel%] | 23.4   45                                              |
| System version                    | 5.0.7.0                                                |
| 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.

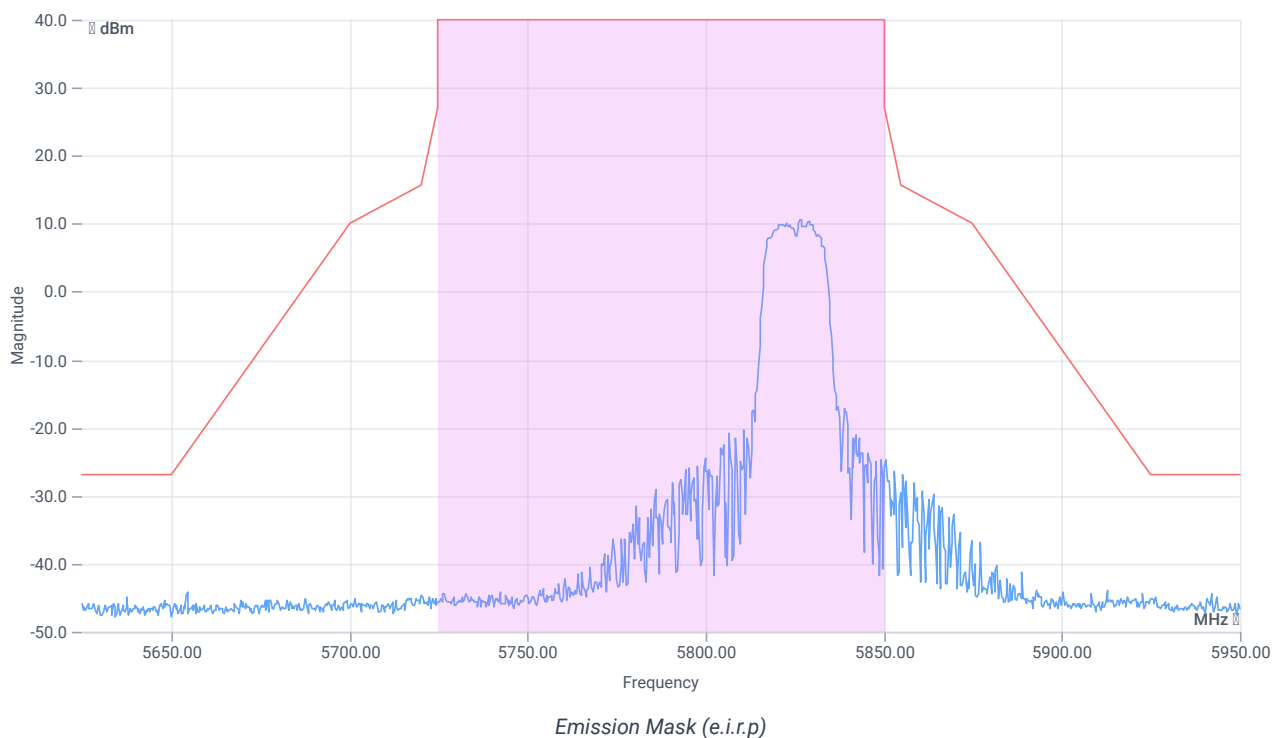
| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 8.34     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5822.200 | MHz  | INFO    |

## Antenna gain

|                                |                                           |
|--------------------------------|-------------------------------------------|
| Considered antenna gain [dBi]: | 1.4 / max found in range 5625 to 5950 MHz |
|--------------------------------|-------------------------------------------|

## READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 11.34   12.88   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. 1-7974-24-01-02_TR1-A201-R1<br>Release 1 - Page 43 of 117 |      |         |

Verdict

PASS

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

### References

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| TC start                          | 05.07.2024 12:06:03                                        |
| Ambit temp [°C]   humidity [rel%] | 22.8   47                                                  |
| System version                    | 5.0.7.0                                                    |
| 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

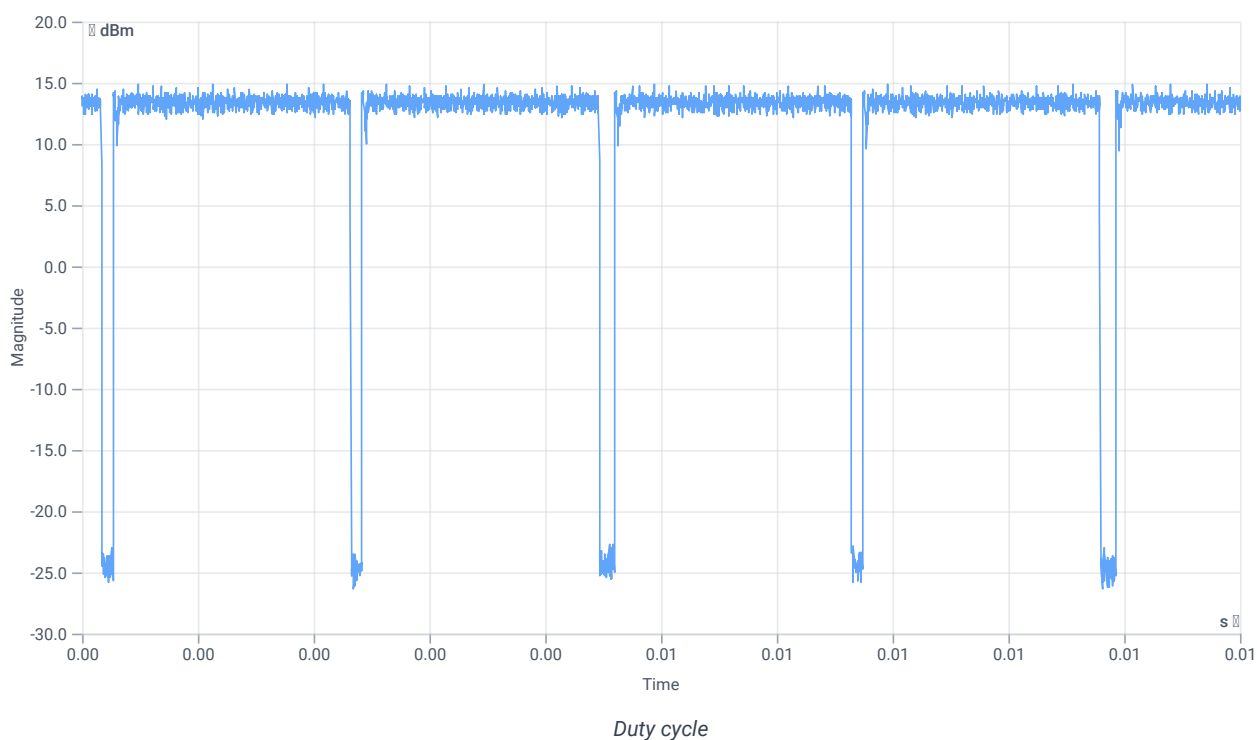
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 12.21    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5740.800 | MHz  | INFO    |

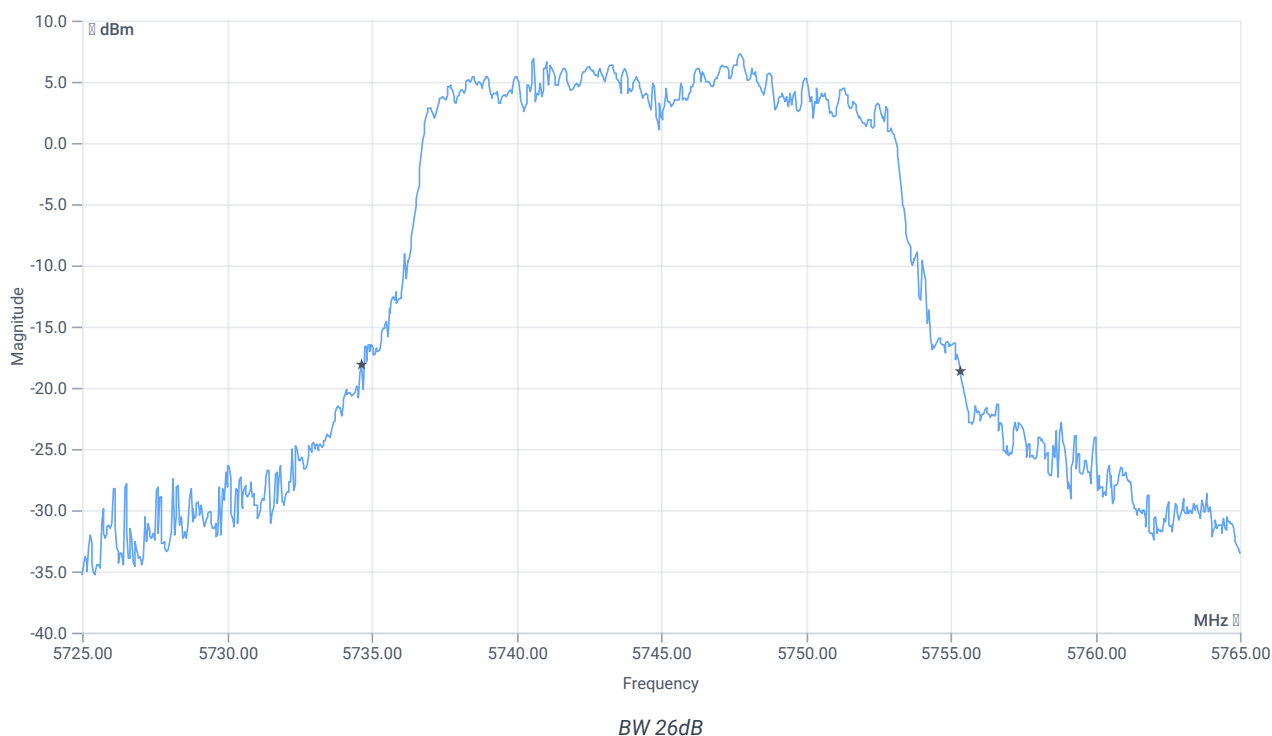
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 4    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.952    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.214    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.938    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.278    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 2.045    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.102    | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.135    | ms   | INFO    |



## Evaluation bandwidth



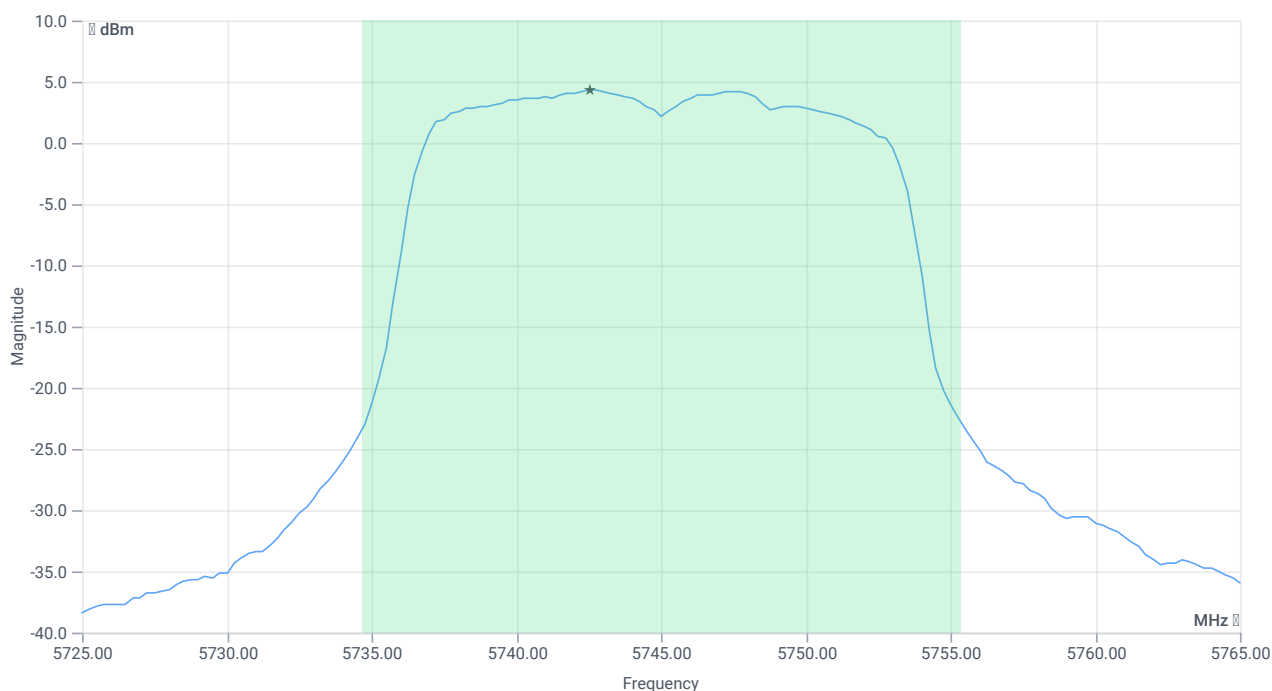
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 20.68     | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5734.6400 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5755.3200 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 24.21   12.82   30   |
| 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

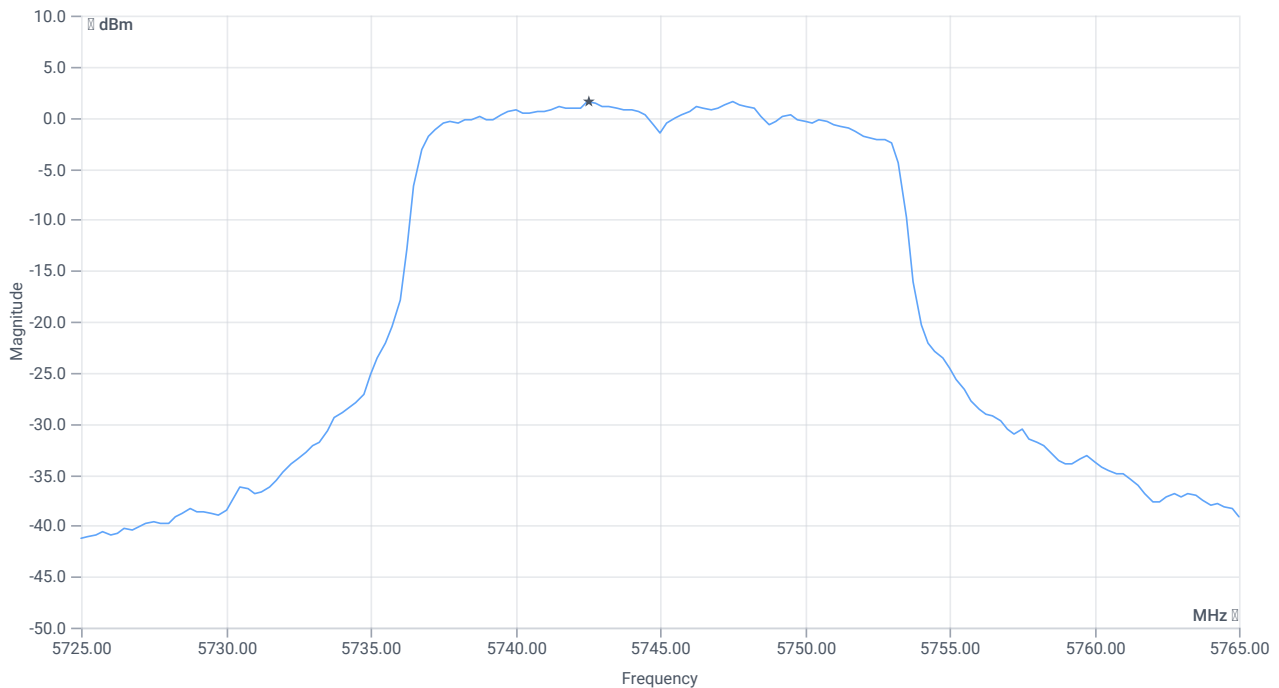
### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                        | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 15.05    | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.28     | dB   | INFO    |
| LIMIT absolute:                    |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 15.33    | dBm  | PASS    |
| LIMIT: 11 dBm + 10 log 20.68       |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 24.16       | 15.33    | dBm  | na      |

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 24.21   12.82   30   |
| 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              | ---         | ---         | 1.55     | dBm/0.5MHz | INFO    |
| Duty cycle correction                    | ---         | ---         | 0.28     | dB         | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | 1.83     | dBm/0.5MHz | PASS    |

### Verdict

PASS

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

### References

|                                   |                                                      |
|-----------------------------------|------------------------------------------------------|
| TC start                          | 05.07.2024 12:06:47                                  |
| Ambit temp [°C]   humidity [rel%] | 22.8   47                                            |
| System version                    | 5.0.7.0                                              |
| 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

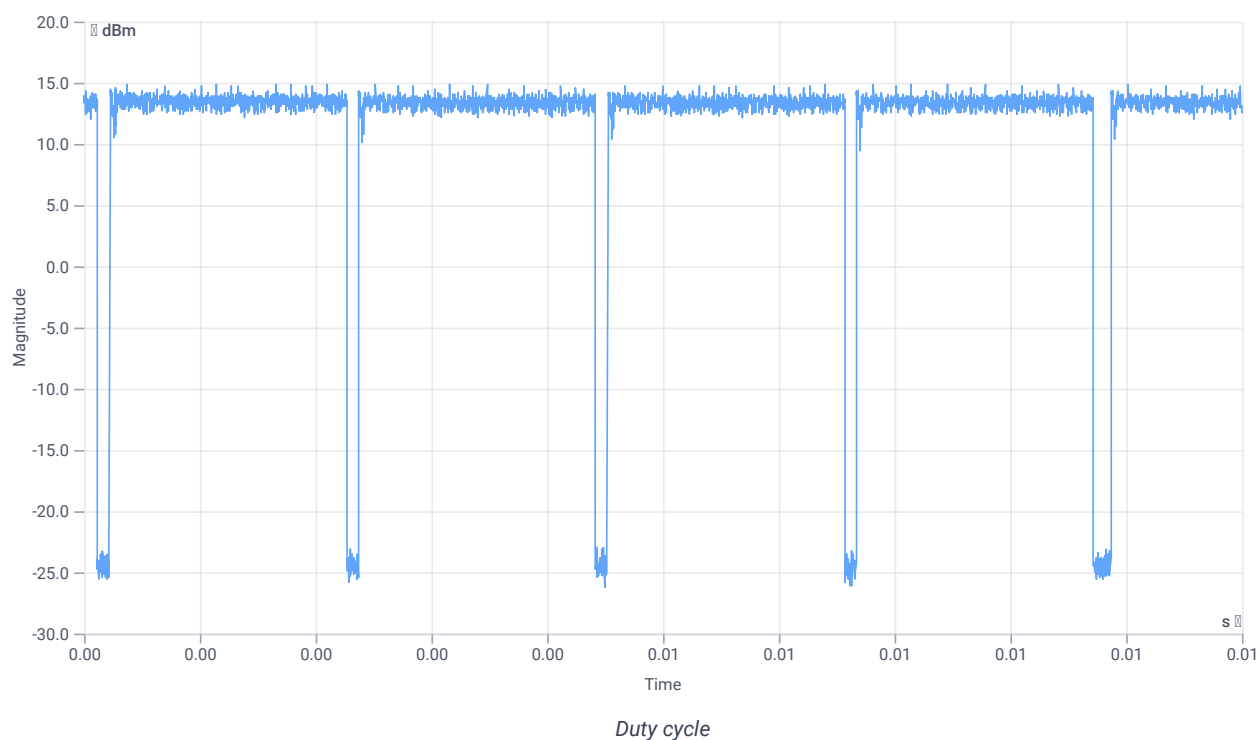
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 12.11    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5748.000 | MHz  | INFO    |

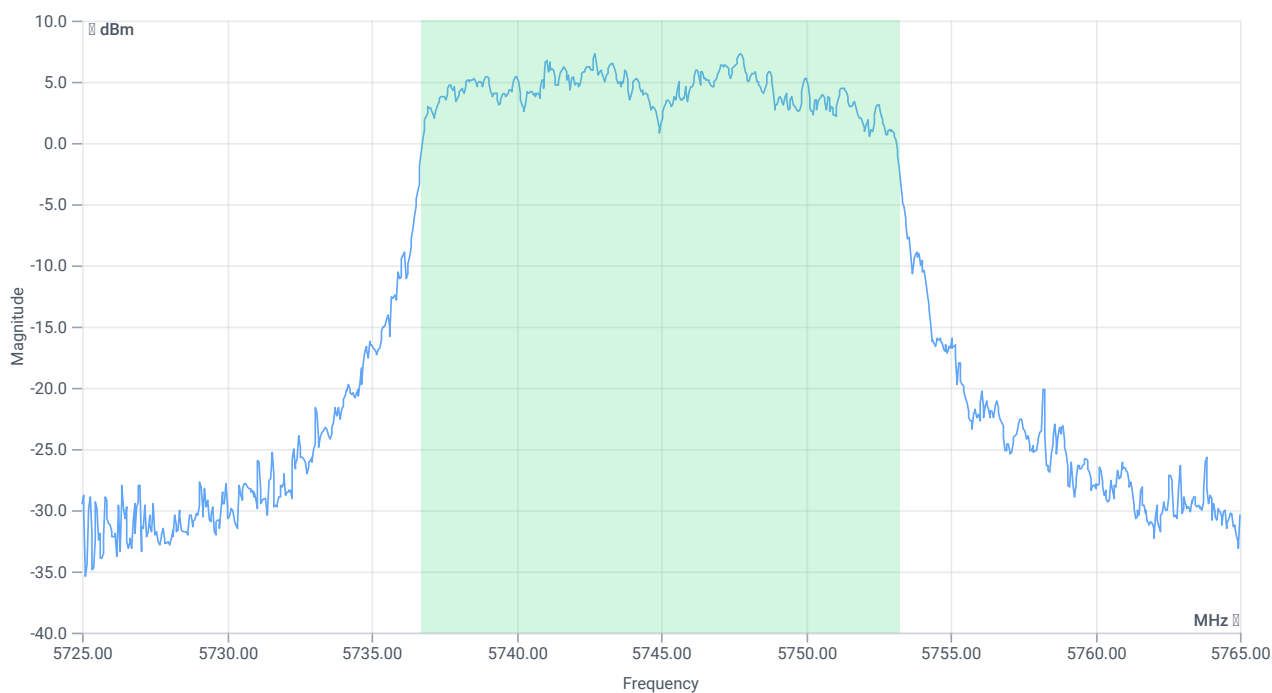
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 4    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.953    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.209    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.949    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.227    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 2.045    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.1      | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.11     | ms   | INFO    |



## Evaluation bandwidth



*BW 99PCT*

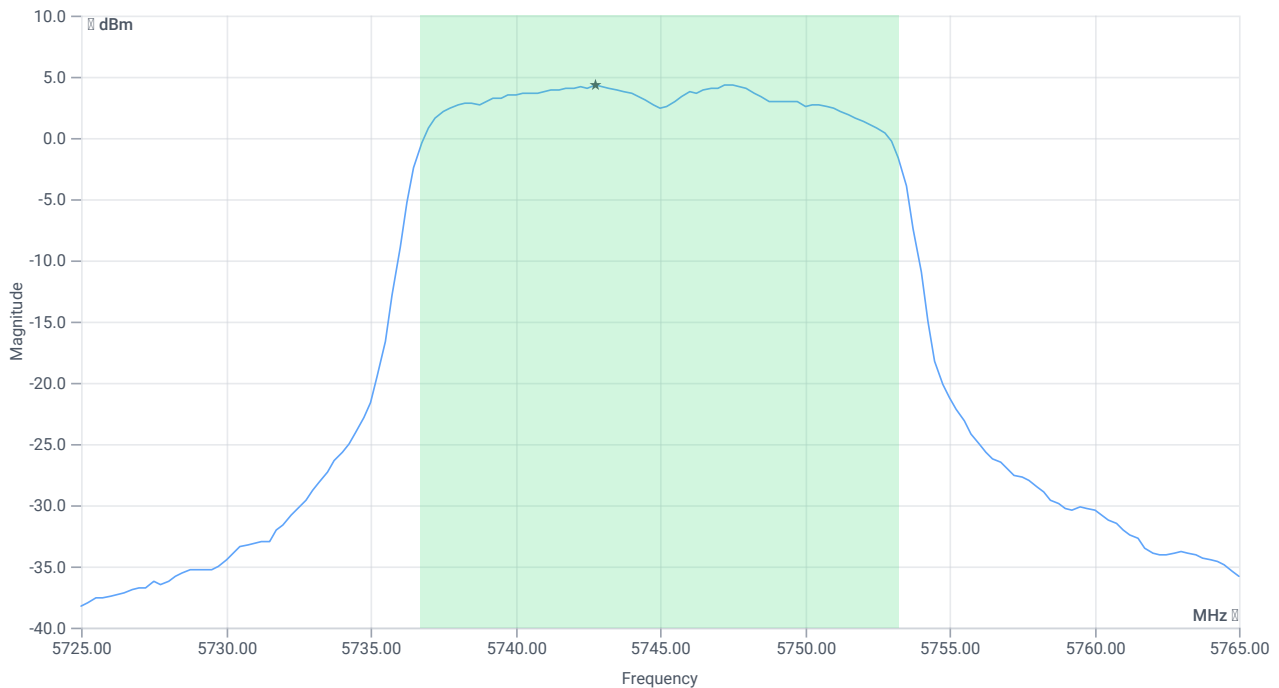
## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 16.503    | MHz  | INFO    |
| T1 99%        | ---         | ---         | 5736.7283 | MHz  | INFO    |
| T2 99%        | ---         | ---         | 5753.2318 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 24.11   12.82   30   |
| 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 |



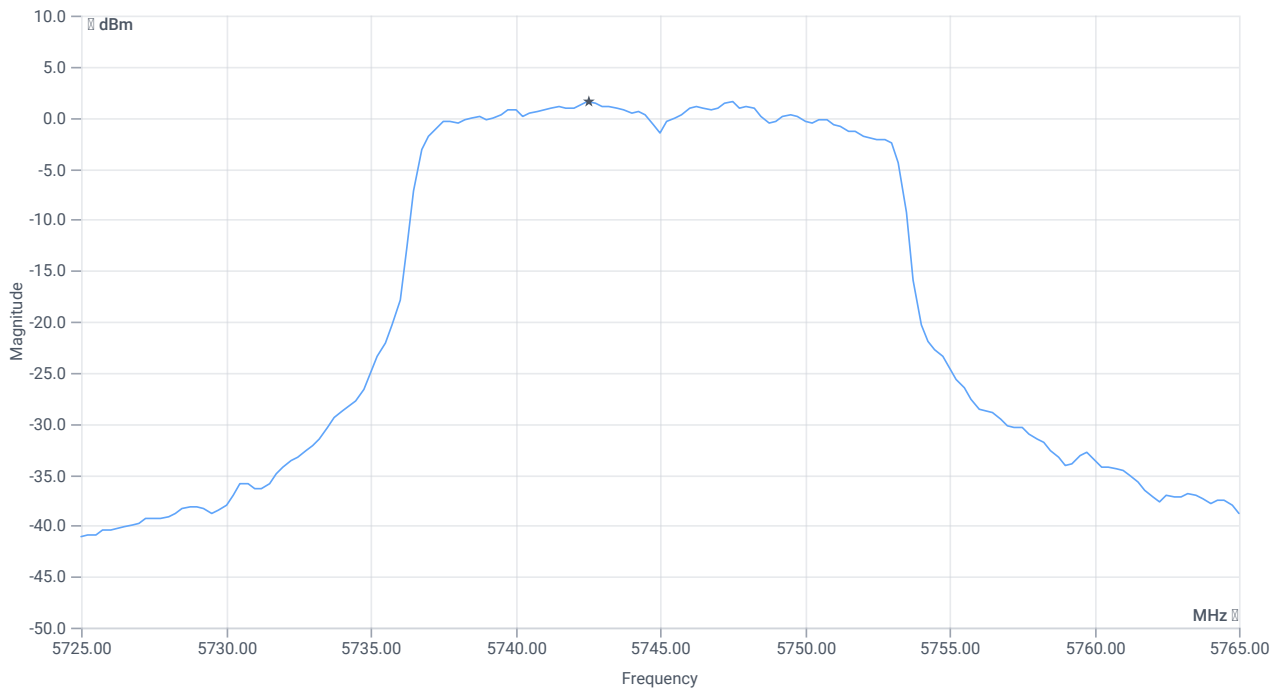
Max OP and PSD (without antenna gain)

## RESULT

| DESCRIPTION                        | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 15.01    | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.23     | dB   | INFO    |
| LIMIT absolute cond                |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 15.24    | dBm  | PASS    |

## READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 24.11   12.82   30   |
| 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 |



PSD UNII-3

## RESULT

| DESCRIPTION                              | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT       | VERDICT |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         |             | 1.54     | dBm/0.5MHz | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | 1.77     | dBm/0.5MHz | PASS    |

## Verdict

PASS

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

### References

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| TC start                          | 05.07.2024 12:13:02                                        |
| Ambit temp [°C]   humidity [rel%] | 22.9   47                                                  |
| System version                    | 5.0.7.0                                                    |
| 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

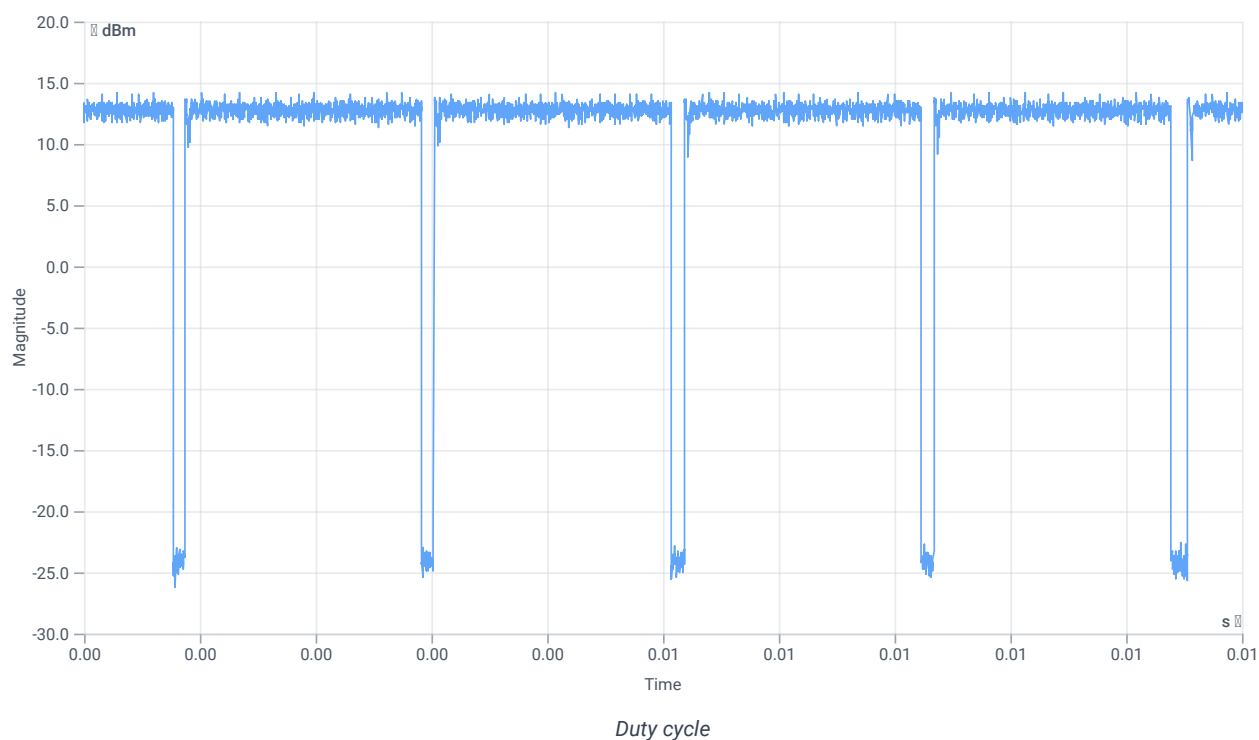
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 11.63    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5786.200 | MHz  | INFO    |

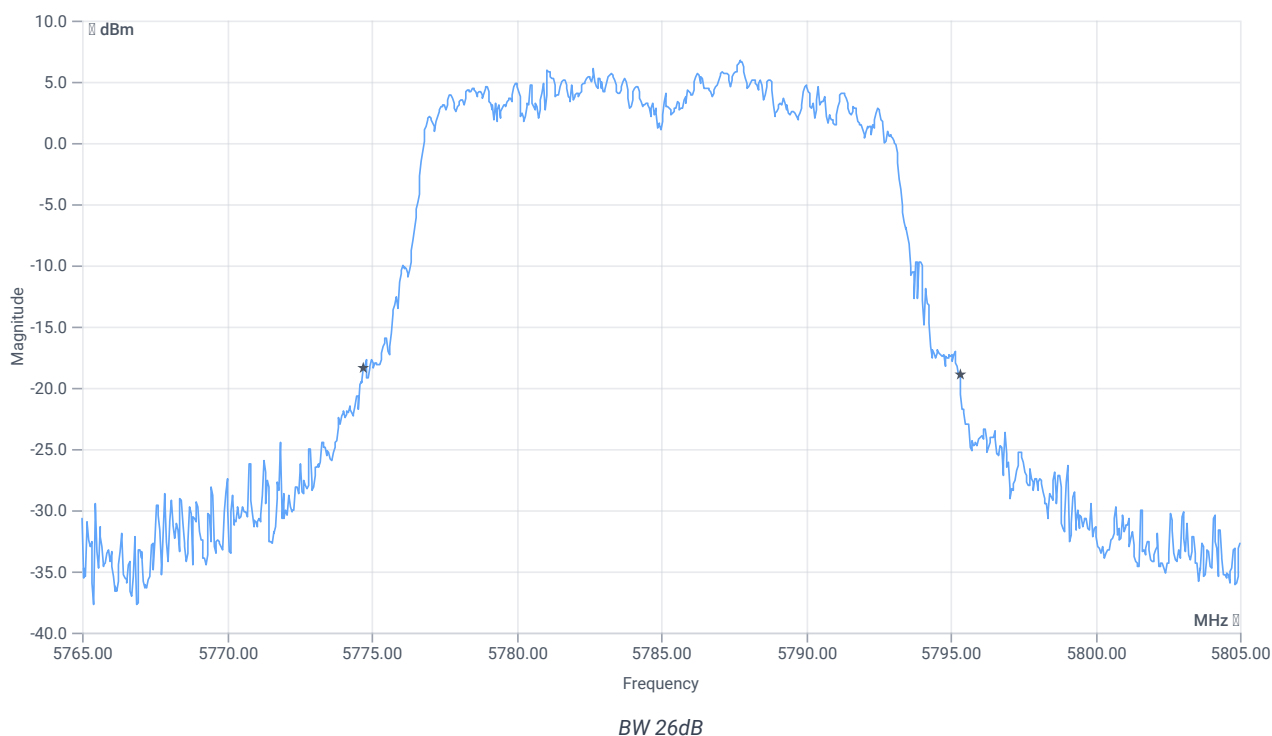
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 4    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.949    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.227    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.946    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.241    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 2.045    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.11     | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.117    | ms   | INFO    |



## Evaluation bandwidth



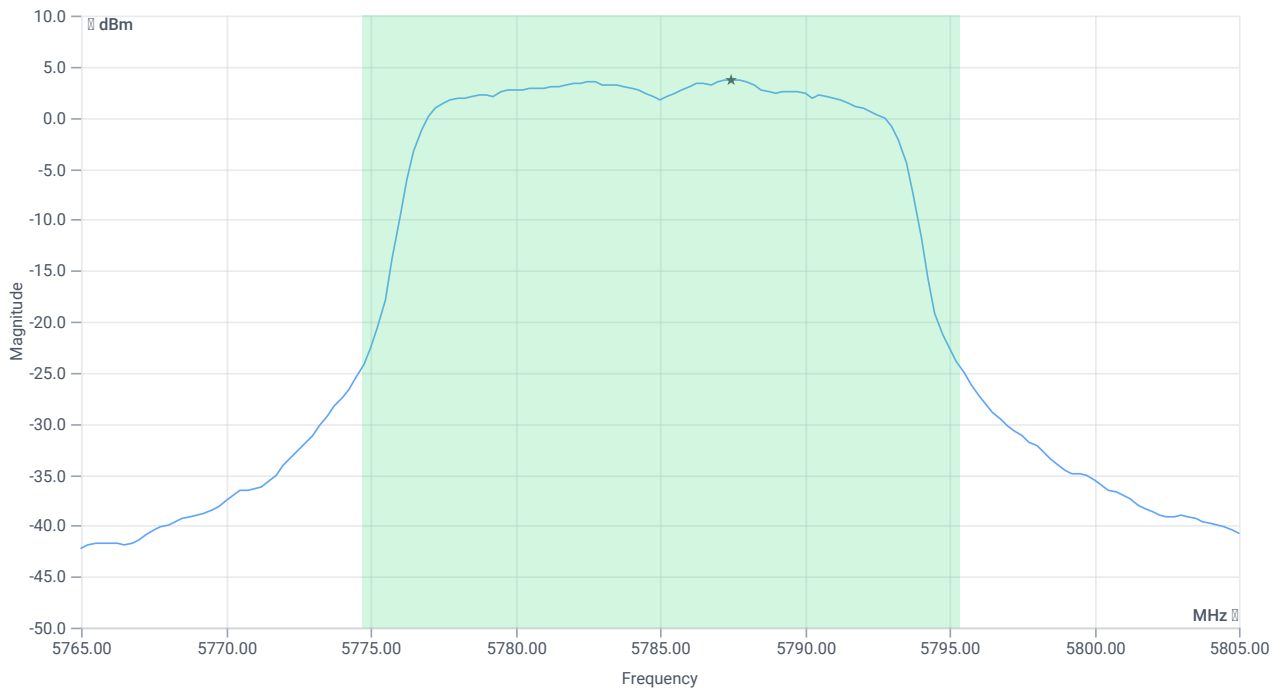
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 20.6      | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5774.7200 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5795.3200 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 23.63   12.95   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 |



Max OP and PSD

## RESULT

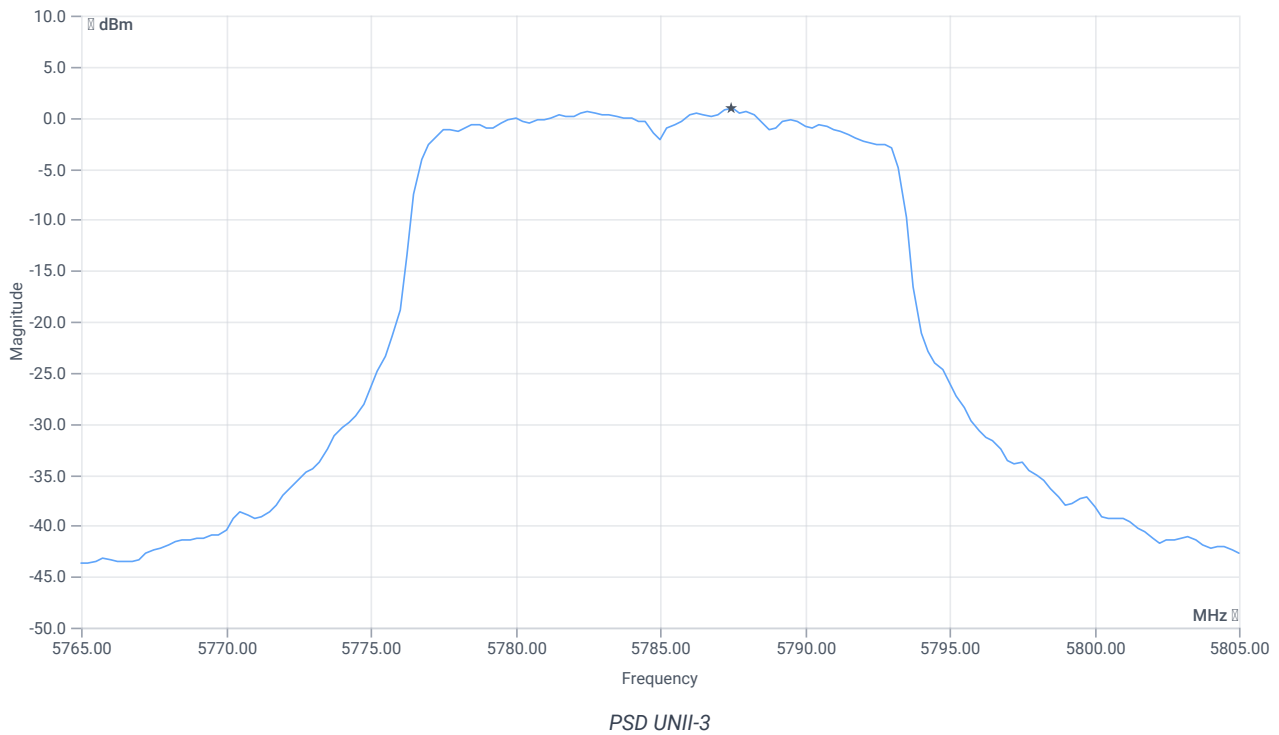
### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                        | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 14.4     | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.24     | dB   | INFO    |
| LIMIT absolute:                    |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 14.64    | dBm  | PASS    |
| LIMIT: 11 dBm + 10 log 20.6        |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 24.14       | 14.64    | dBm  | na      |

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 23.63   12.95   30   |
| 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              | ---         | ---         | 0.89     | dBm/0.5MHz | INFO    |
| Duty cycle correction                    | ---         | ---         | 0.24     | dB         | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | 1.13     | dBm/0.5MHz | PASS    |

### Verdict

PASS

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

## References

|                                   |                                                      |
|-----------------------------------|------------------------------------------------------|
| TC start                          | 05.07.2024 12:13:46                                  |
| Ambit temp [°C]   humidity [rel%] | 22.9   47                                            |
| System version                    | 5.0.7.0                                              |
| 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

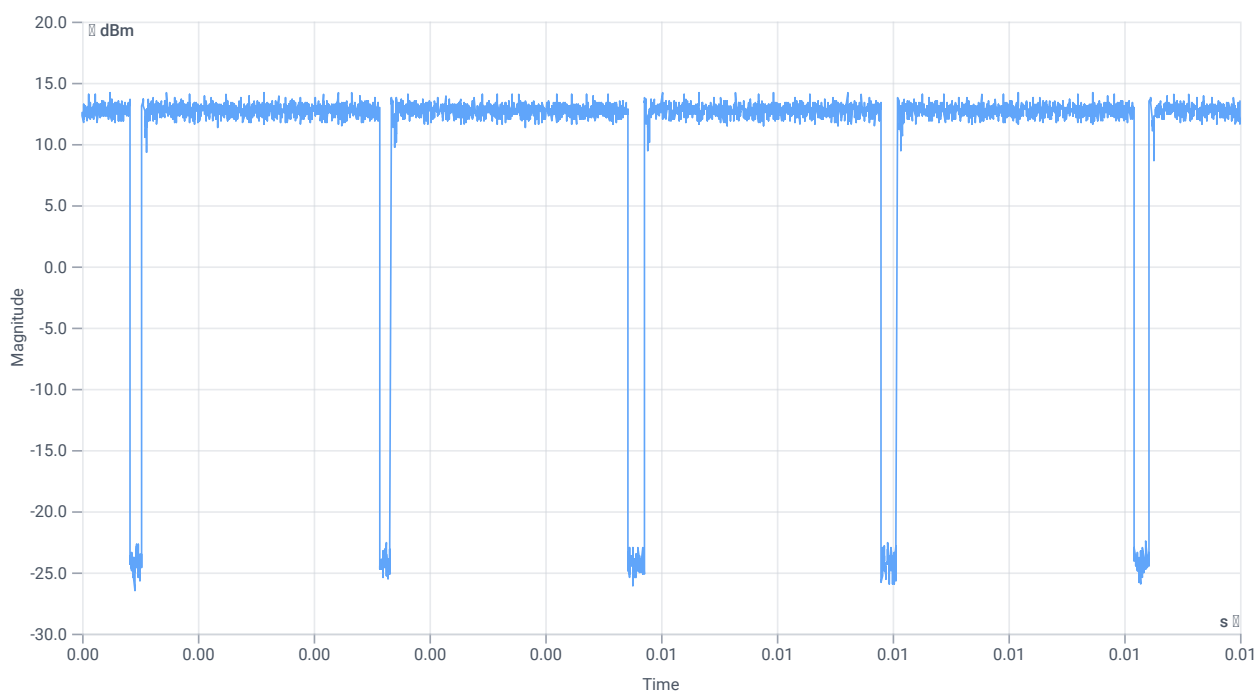
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 11.89    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5786.400 | MHz  | INFO    |

## Evaluation max. duty cycle

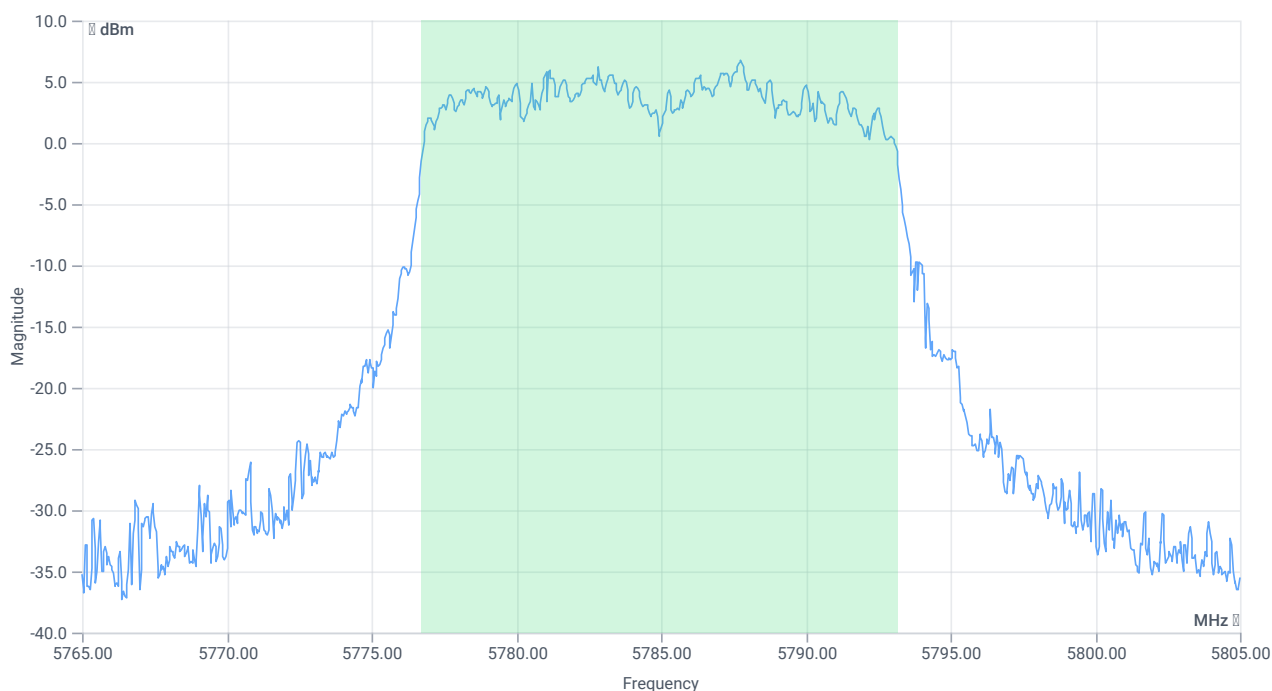
### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 4    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.953    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.209    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.934    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.297    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 2.045    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.1      | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.145    | ms   | INFO    |



Duty cycle

## Evaluation bandwidth



BW 99PCT

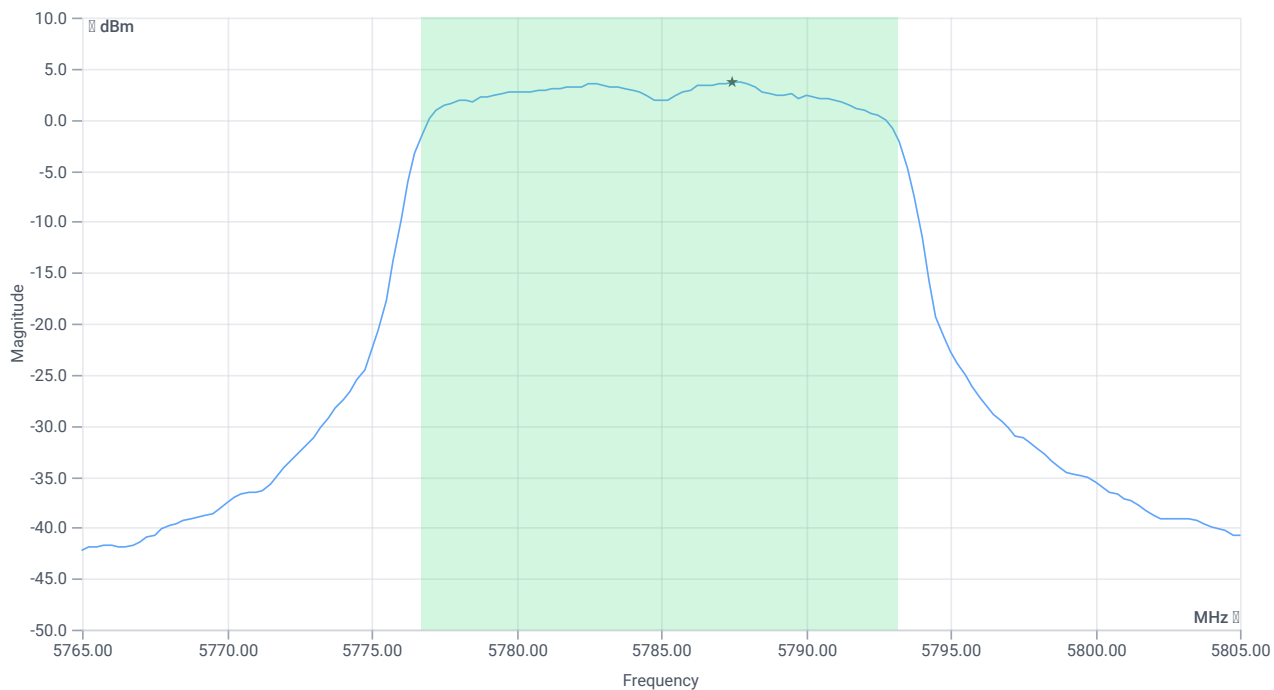
## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 16.464    | MHz  | INFO    |
| T1 99%        | ---         | ---         | 5776.7283 | MHz  | INFO    |
| T2 99%        | ---         | ---         | 5793.1918 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 23.89   12.95   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 |

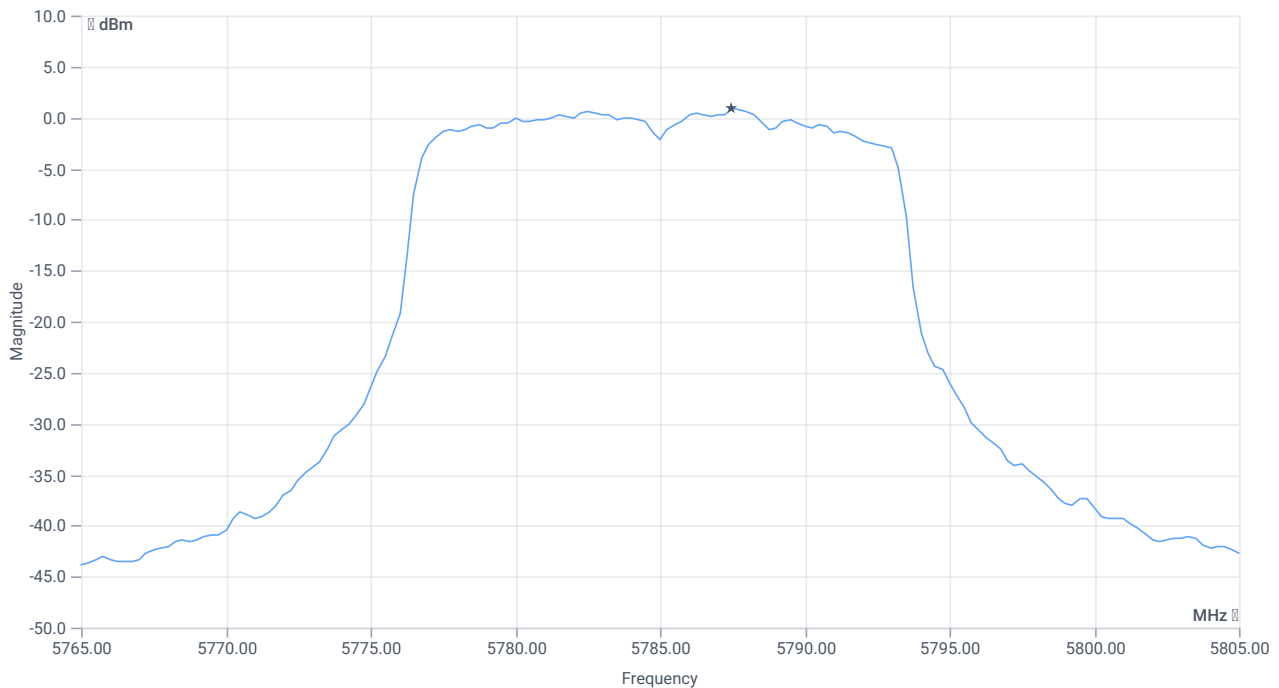


## RESULT

| DESCRIPTION                        | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 14.3     | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.3      | dB   | INFO    |
| LIMIT absolute cond                |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 14.6     | dBm  | PASS    |

## READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 23.89   12.95   30   |
| 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 |



PSD UNII-3

## RESULT

| DESCRIPTION                              | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT       | VERDICT |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         |             | 0.9      | dBm/0.5MHz | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | 1.2      | dBm/0.5MHz | PASS    |

## Verdict

PASS

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

### References

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| TC start                          | 05.07.2024 12:18:10                                        |
| Ambit temp [°C]   humidity [rel%] | 23.0   47                                                  |
| System version                    | 5.0.7.0                                                    |
| 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

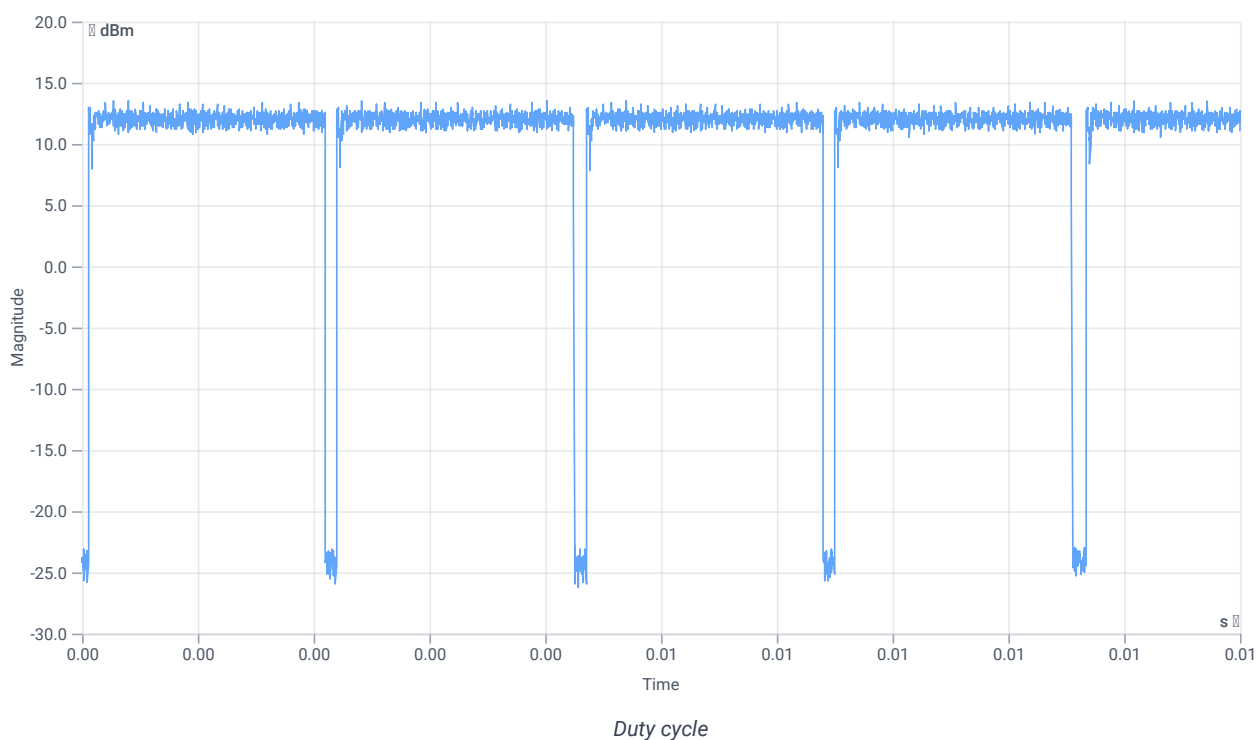
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 11.32    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5826.400 | MHz  | INFO    |

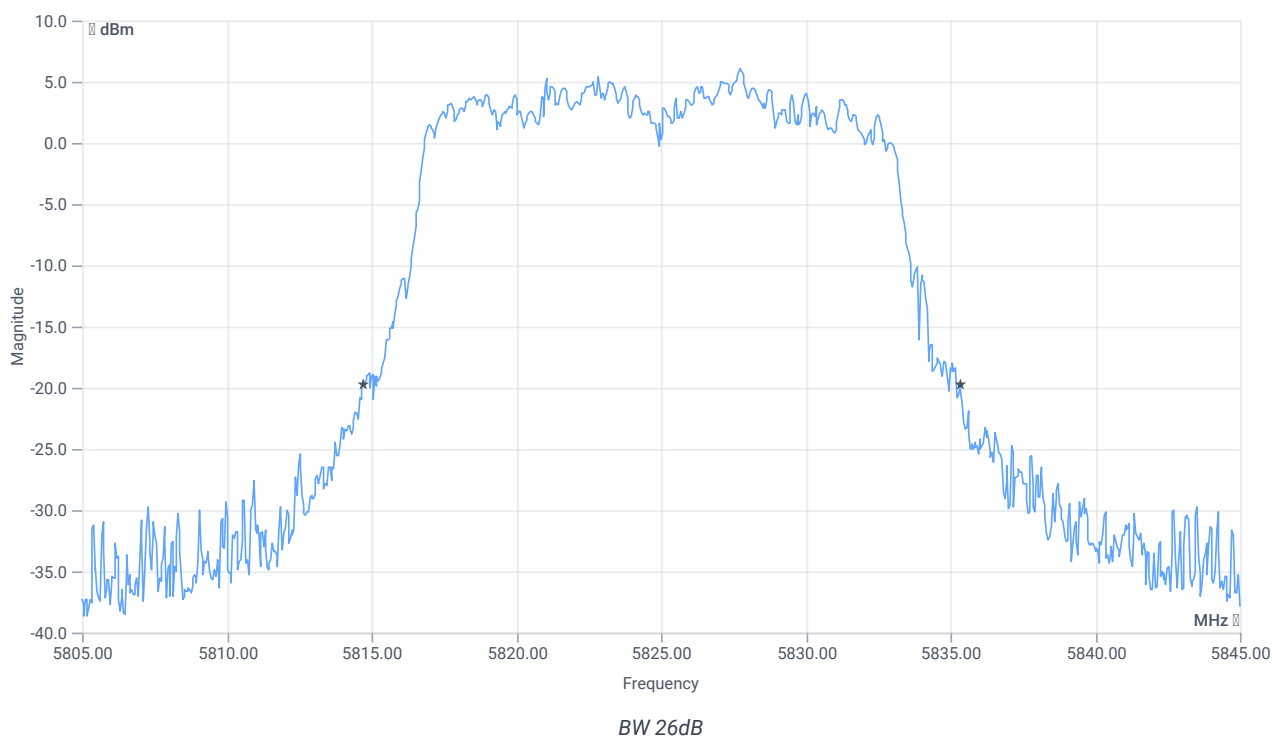
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 3    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.952    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.214    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.95     | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.223    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 2.045    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.103    | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.107    | ms   | INFO    |



## Evaluation bandwidth



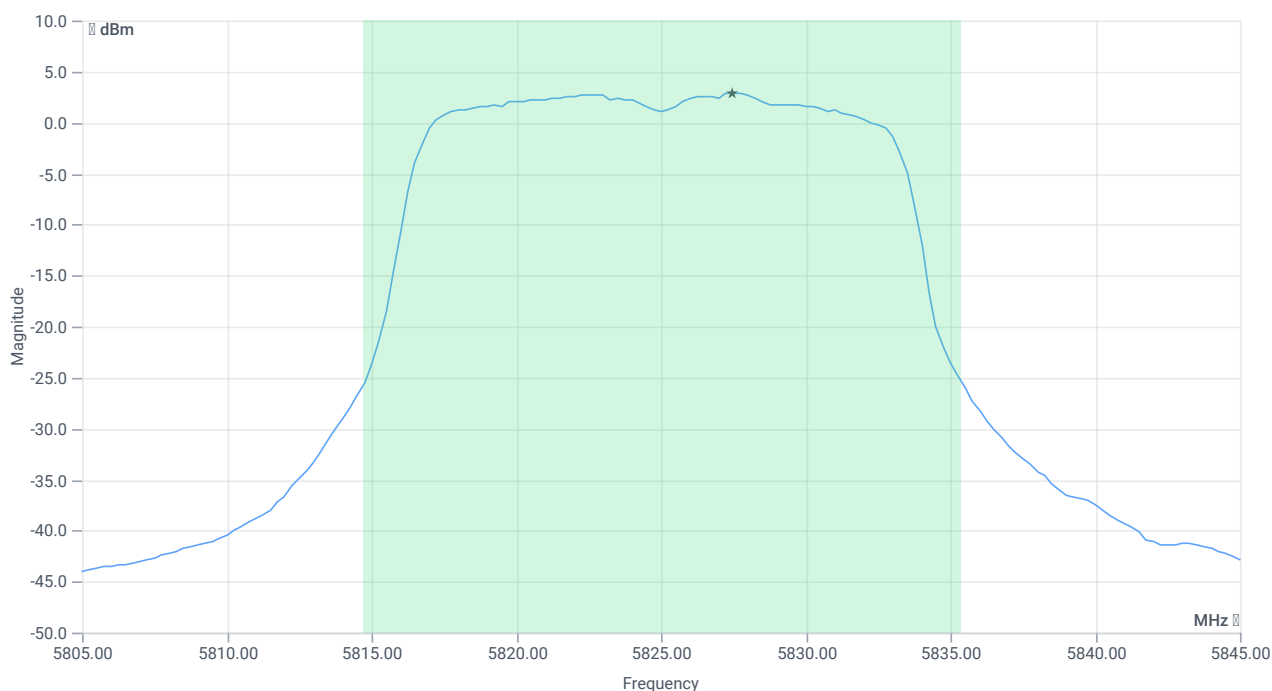
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 20.6      | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5814.7200 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5835.3200 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 23.32   12.88   25   |
| 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

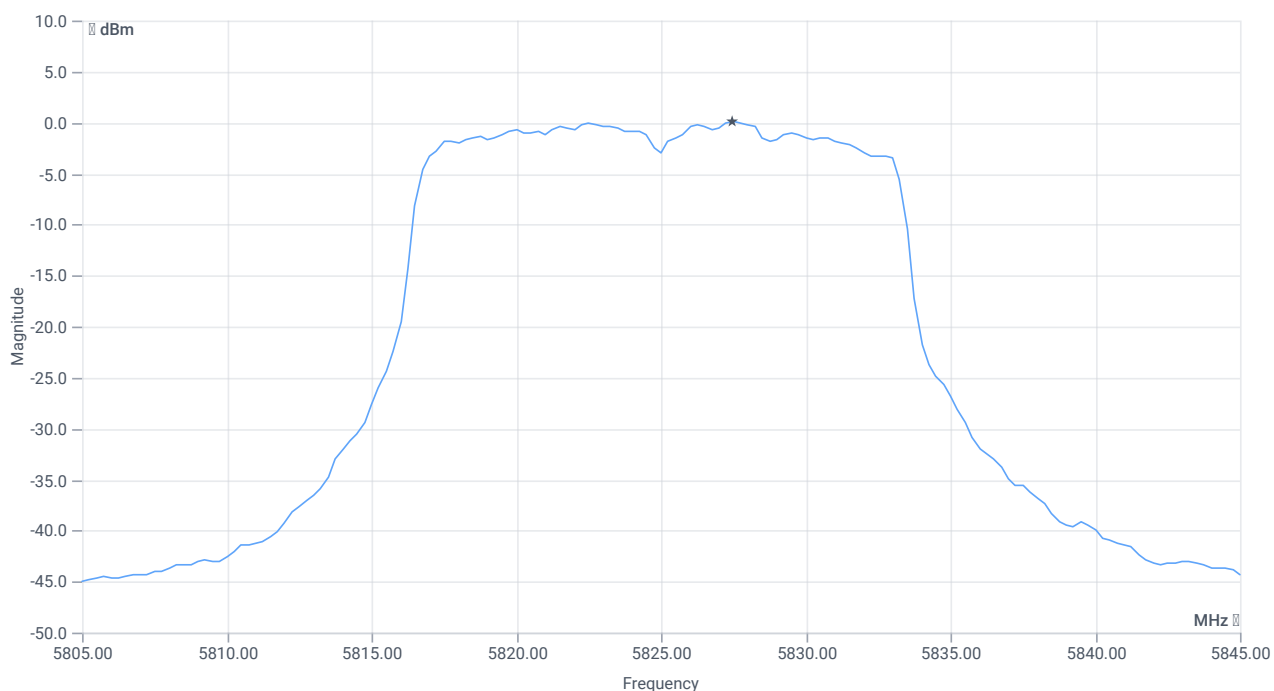
### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                        | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 13.69    | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.22     | dB   | INFO    |
| LIMIT absolute:                    |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 13.91    | dBm  | PASS    |
| LIMIT: 11 dBm + 10 log 20.6        |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 24.14       | 13.91    | dBm  | na      |

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 23.32   12.88   30   |
| 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              | ---         | ---         | 0.09     | dBm/0.5MHz | INFO    |
| Duty cycle correction                    | ---         | ---         | 0.22     | dB         | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | 0.31     | dBm/0.5MHz | PASS    |

### Verdict

PASS

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

### References

|                                   |                                                      |
|-----------------------------------|------------------------------------------------------|
| TC start                          | 05.07.2024 12:18:56                                  |
| Ambit temp [°C]   humidity [rel%] | 23.0   47                                            |
| System version                    | 5.0.7.0                                              |
| 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

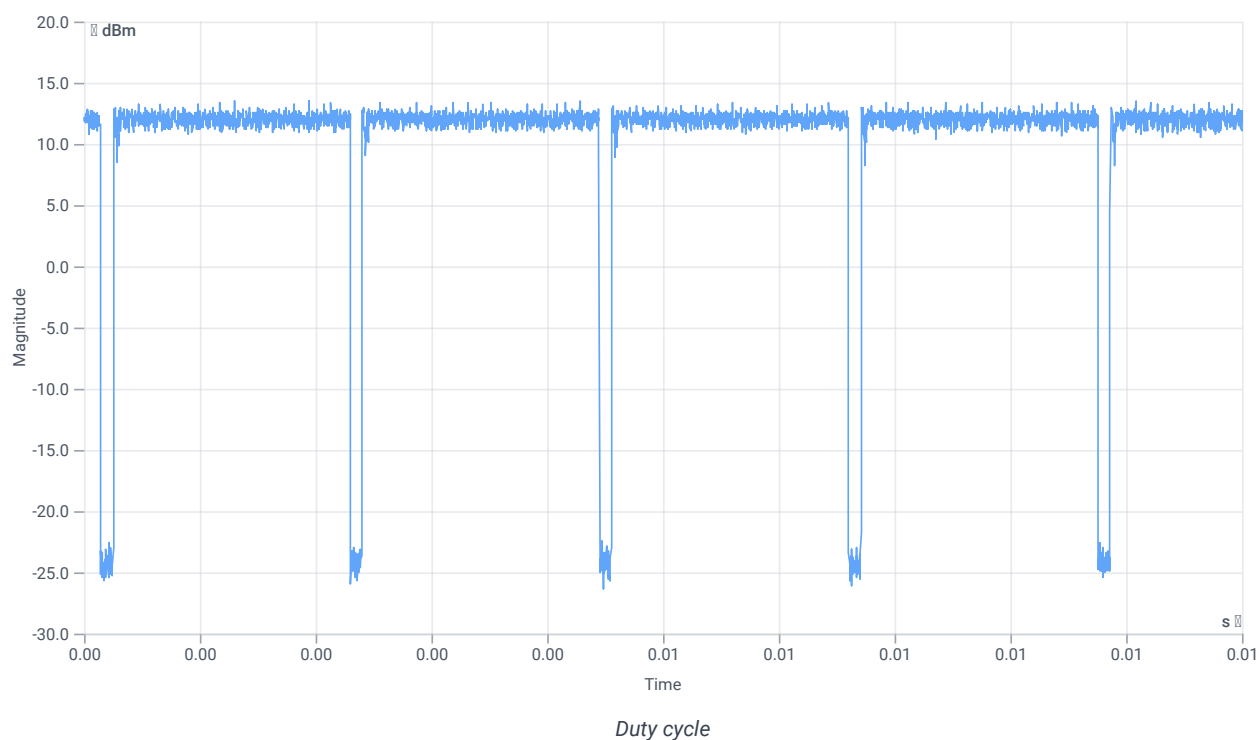
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 11.21    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5826.400 | MHz  | INFO    |

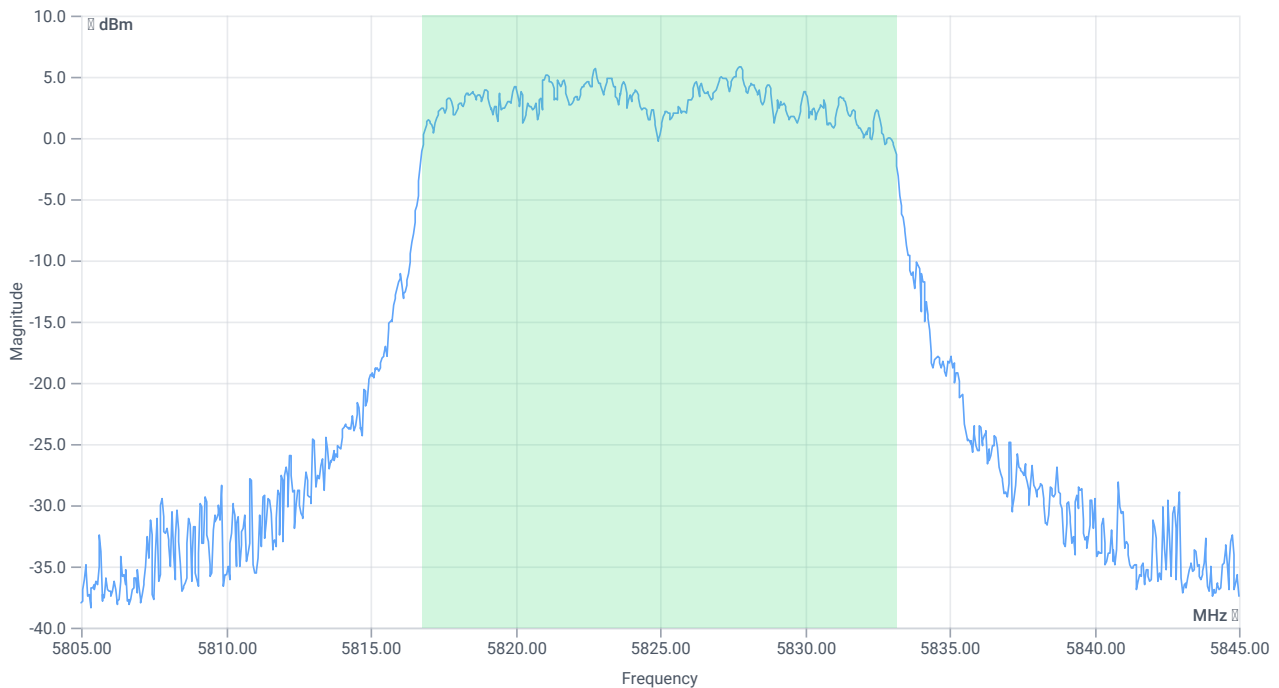
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 4    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.953    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.209    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.949    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.227    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 2.045    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.1      | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.11     | ms   | INFO    |



## Evaluation bandwidth



BW 99PCT

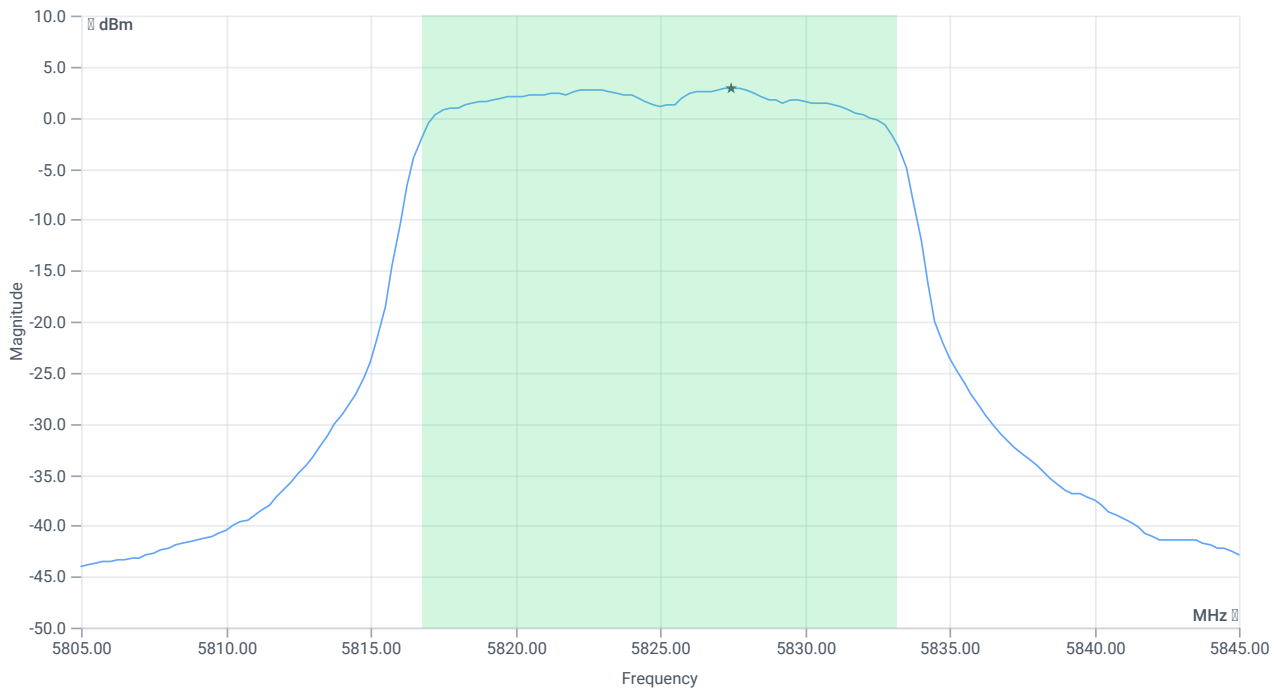
## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 16.424    | MHz  | INFO    |
| T1 99%        | ---         | ---         | 5816.7682 | MHz  | INFO    |
| T2 99%        | ---         | ---         | 5833.1918 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 23.21   12.88   25   |
| 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 |

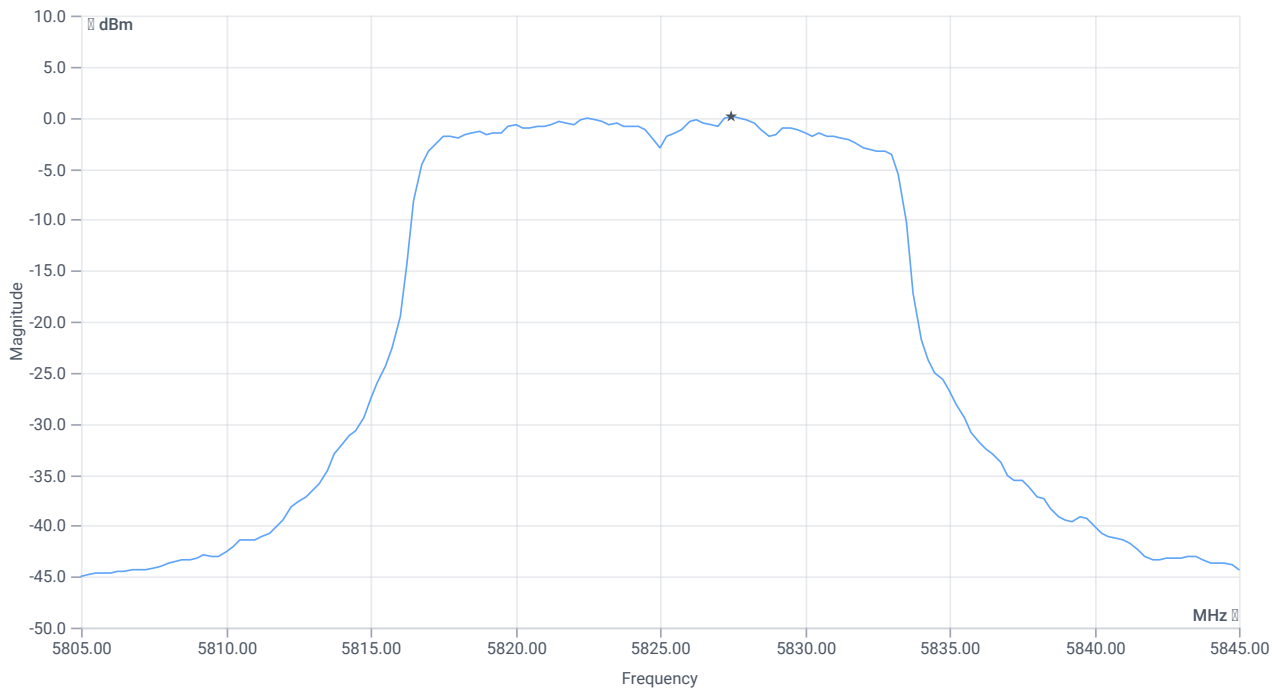


## RESULT

| DESCRIPTION                        | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 13.59    | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.23     | dB   | INFO    |
| LIMIT absolute cond                |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 13.82    | dBm  | PASS    |

## READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 23.21   12.88   30   |
| 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 |



PSD UNII-3

## RESULT

| DESCRIPTION                              | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT       | VERDICT |
|------------------------------------------|-------------|-------------|----------|------------|---------|
| Power spectral density cond              | ---         |             | 0.09     | dBm/0.5MHz | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | 0.32     | dBm/0.5MHz | PASS    |

## Verdict

PASS

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

## References

|                                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| TC start                          | 05.07.2024 12:28:38                                             |
| Ambit temp [°C]   humidity [rel%] | 23.1   46                                                       |
| System version                    | 5.0.7.0                                                         |
| 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.MPSIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001      |

## Test at TX 5745 MHz

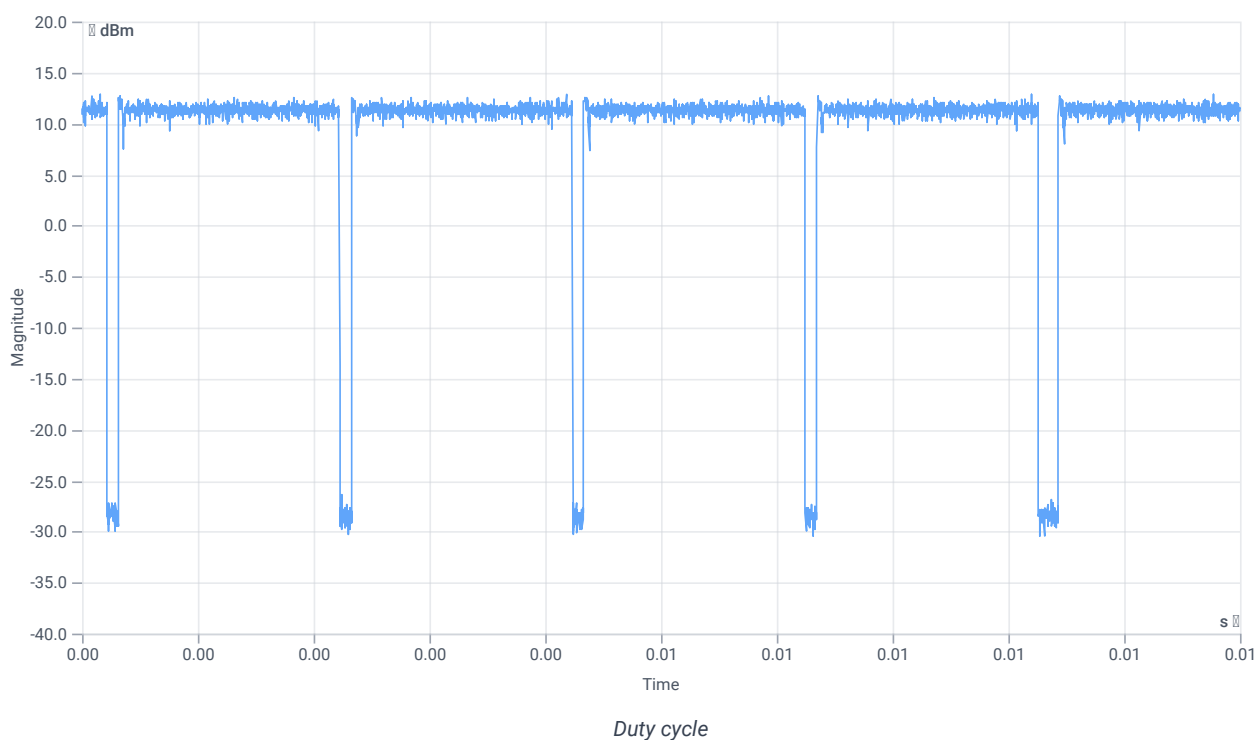
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 10.00    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5741.400 | MHz  | INFO    |

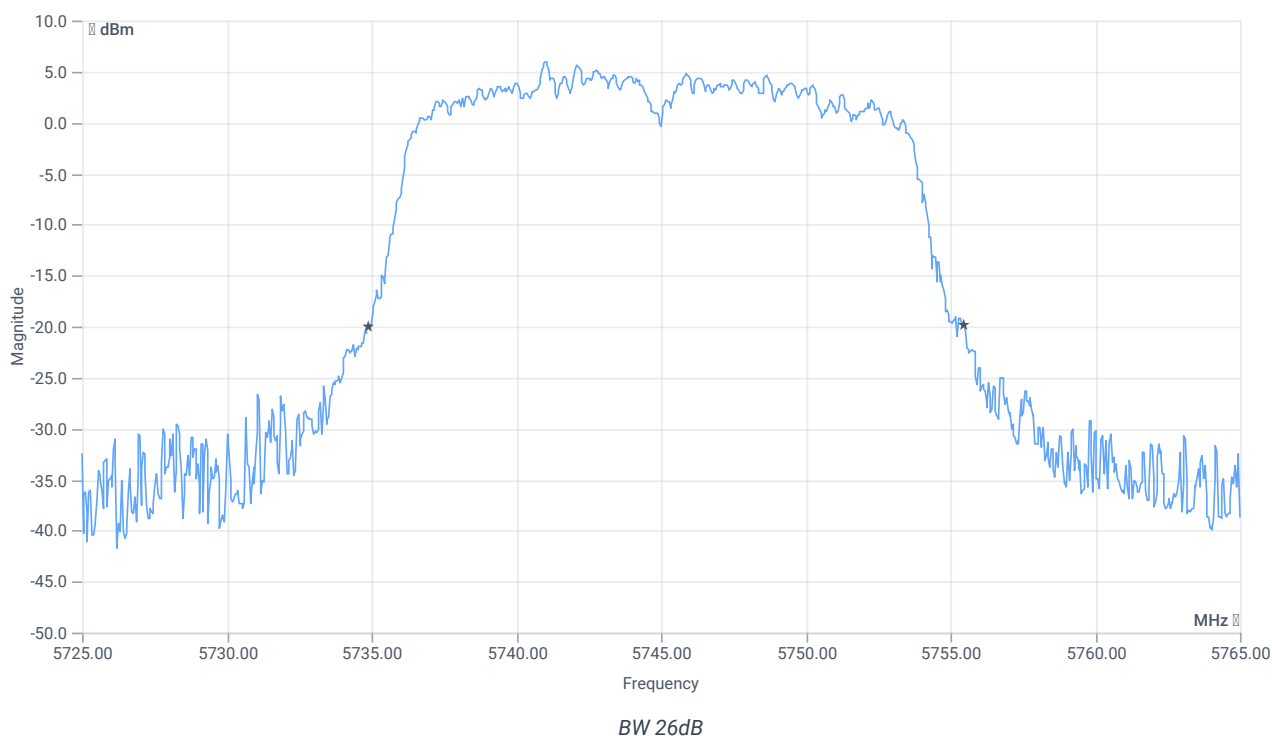
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 4    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.95     | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.223    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.945    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.246    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 1.905    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.1      | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.11     | ms   | INFO    |



## Evaluation bandwidth



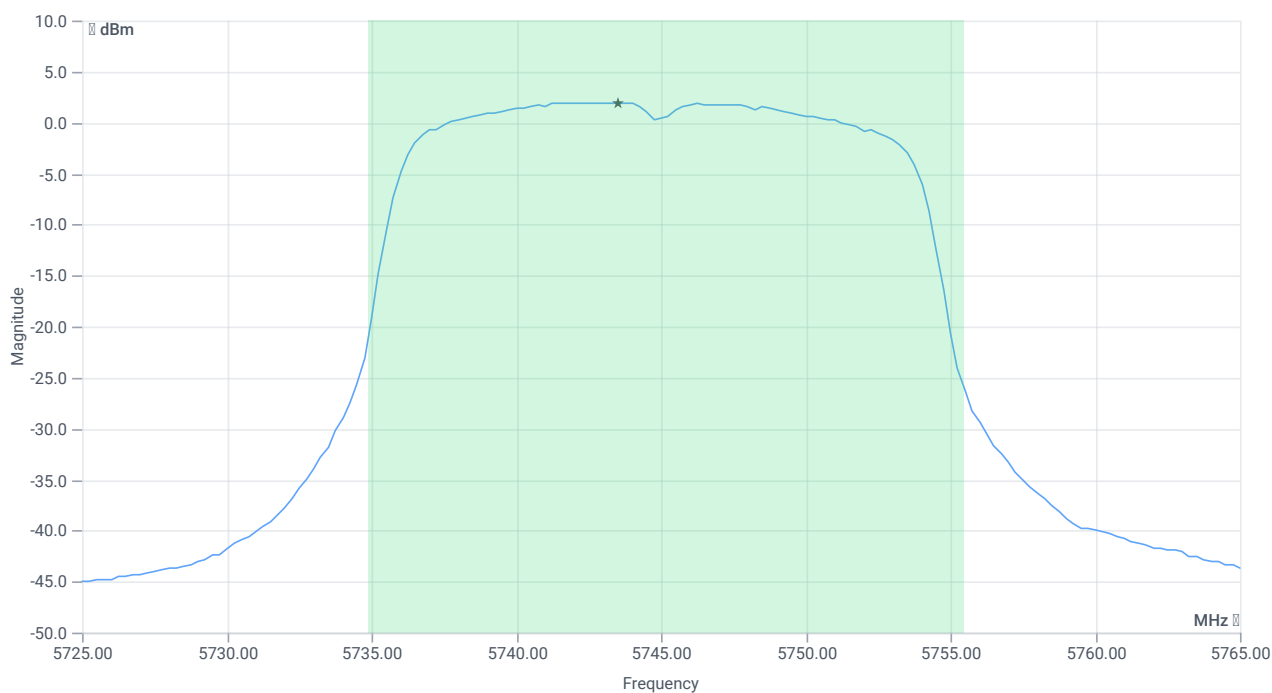
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 20.6      | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5734.8800 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5755.4800 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 22.00   12.82   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

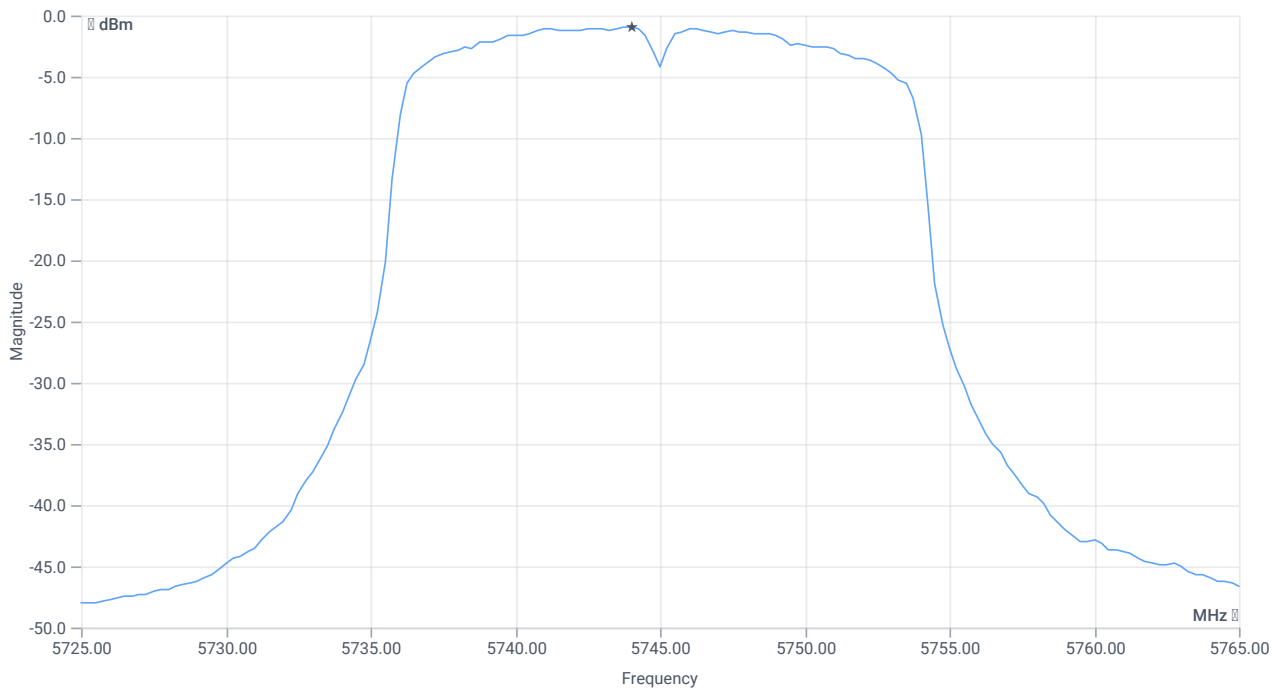
### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                        | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 13.09    | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.25     | dB   | INFO    |
| LIMIT absolute:                    |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 13.34    | dBm  | PASS    |
| LIMIT: 11 dBm + 10 log 20.6        |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 24.14       | 13.34    | dBm  | na      |

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 22.00   12.82   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              | ---         | ---         | -0.98    | dBm/0.5MHz | INFO    |
| Duty cycle correction                    | ---         | ---         | 0.25     | dB         | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -0.73    | dBm/0.5MHz | PASS    |

### Verdict

PASS

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

## References

|                                   |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| TC start                          | 05.07.2024 12:29:22                                       |
| Ambit temp [°C]   humidity [rel%] | 23.1   47                                                 |
| System version                    | 5.0.7.0                                                   |
| 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

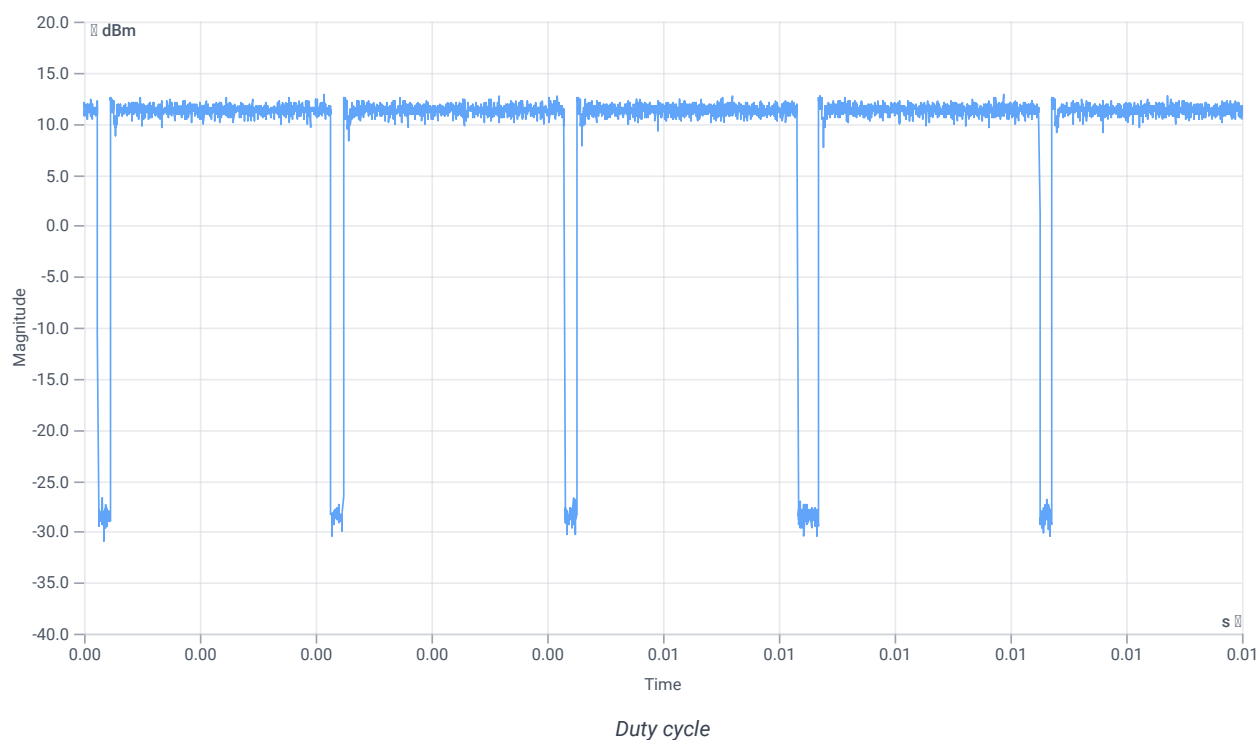
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 9.78     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5746.600 | MHz  | INFO    |

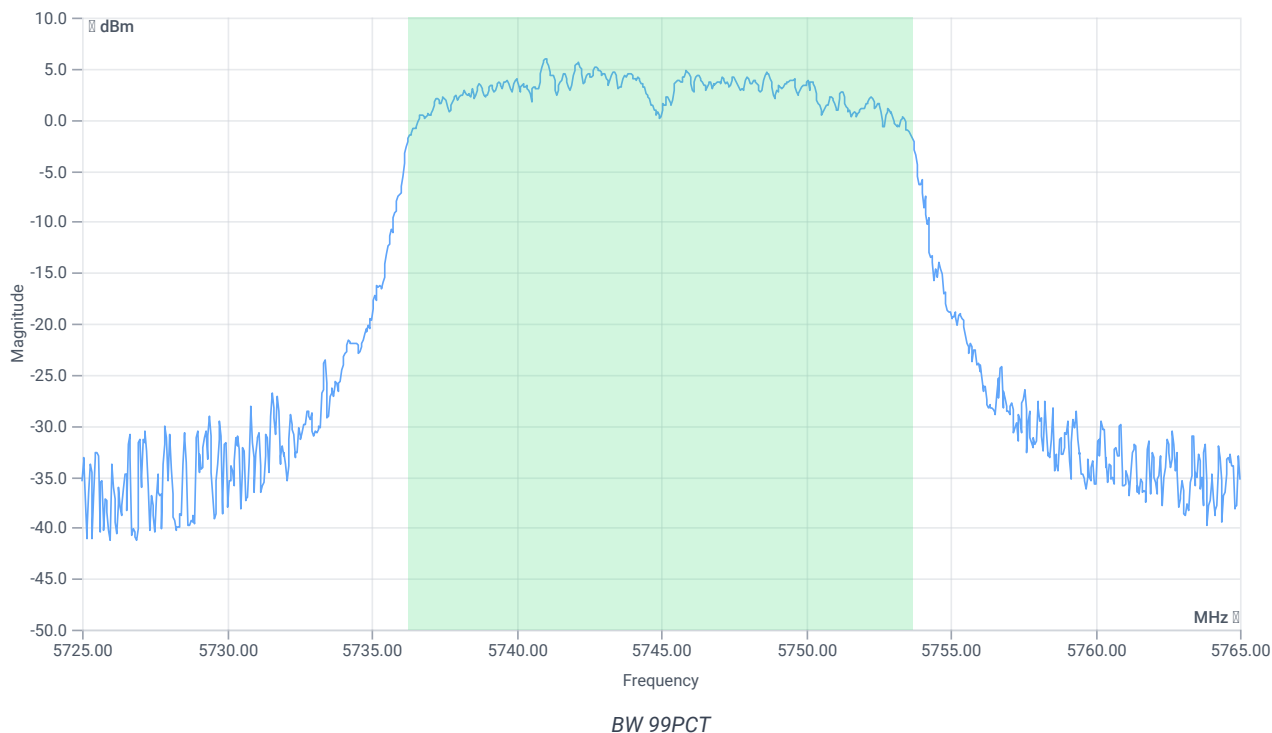
## Evaluation max. duty cycle

### 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 | ---         | ---         | 0.913    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.395    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 1.905    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.11     | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.183    | ms   | INFO    |



## Evaluation bandwidth



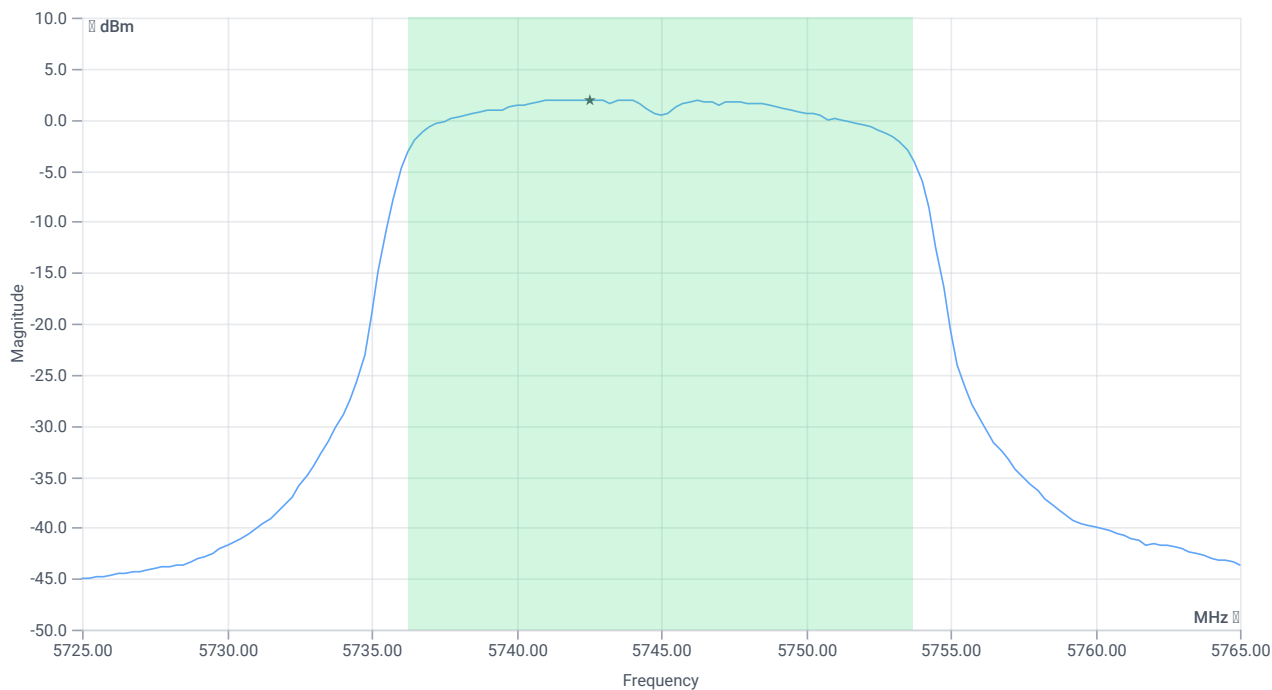
## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 17.463    | MHz  | INFO    |
| T1 99%        | ---         | ---         | 5736.2488 | MHz  | INFO    |
| T2 99%        | ---         | ---         | 5753.7113 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 21.78   12.82   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 |



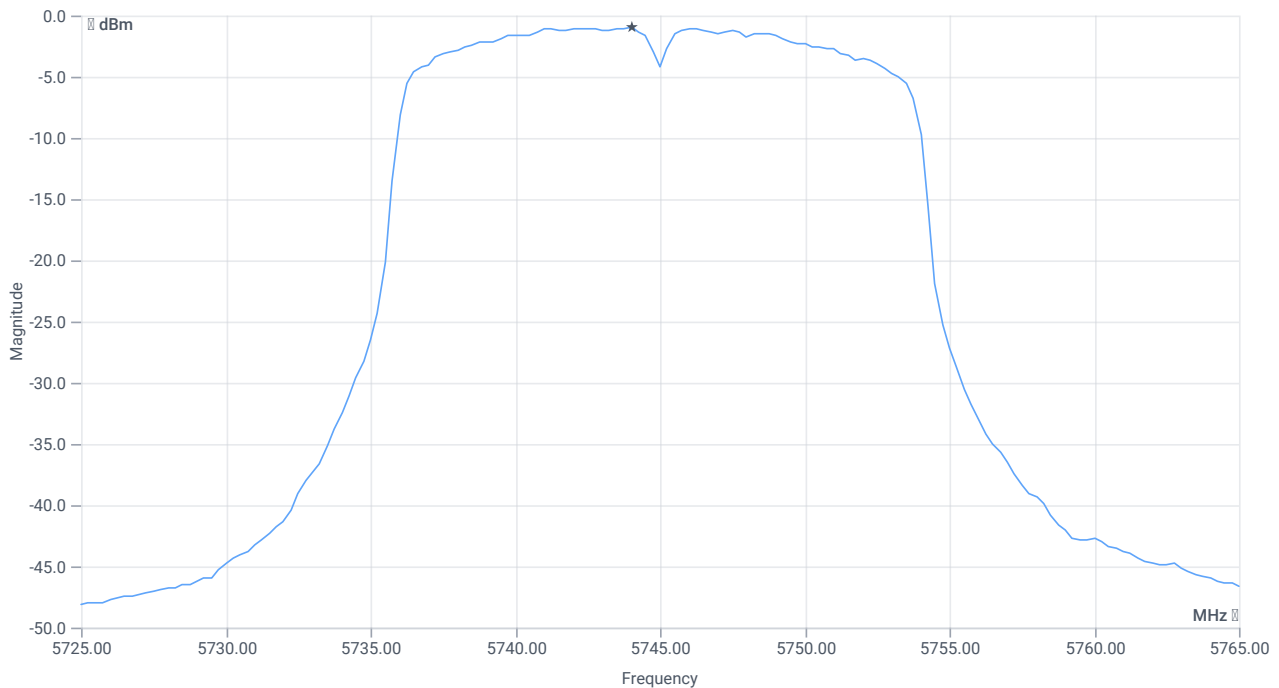
Max OP and PSD (without antenna gain)

## RESULT

| DESCRIPTION                        | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 13.01    | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.4      | dB   | INFO    |
| LIMIT absolute cond                |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 13.41    | dBm  | PASS    |

## READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 21.78   12.82   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              | ---         |             | -0.95    | dBm/0.5MHz | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -0.55    | dBm/0.5MHz | PASS    |

## Verdict

PASS

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

## References

|                                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| TC start                          | 05.07.2024 12:43:41                                             |
| Ambit temp [°C]   humidity [rel%] | 23.3   46                                                       |
| System version                    | 5.0.7.0                                                         |
| 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.MPSIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits                                      | 00010001:00010001:00000000:00000001      |

## Test at TX 5785 MHz

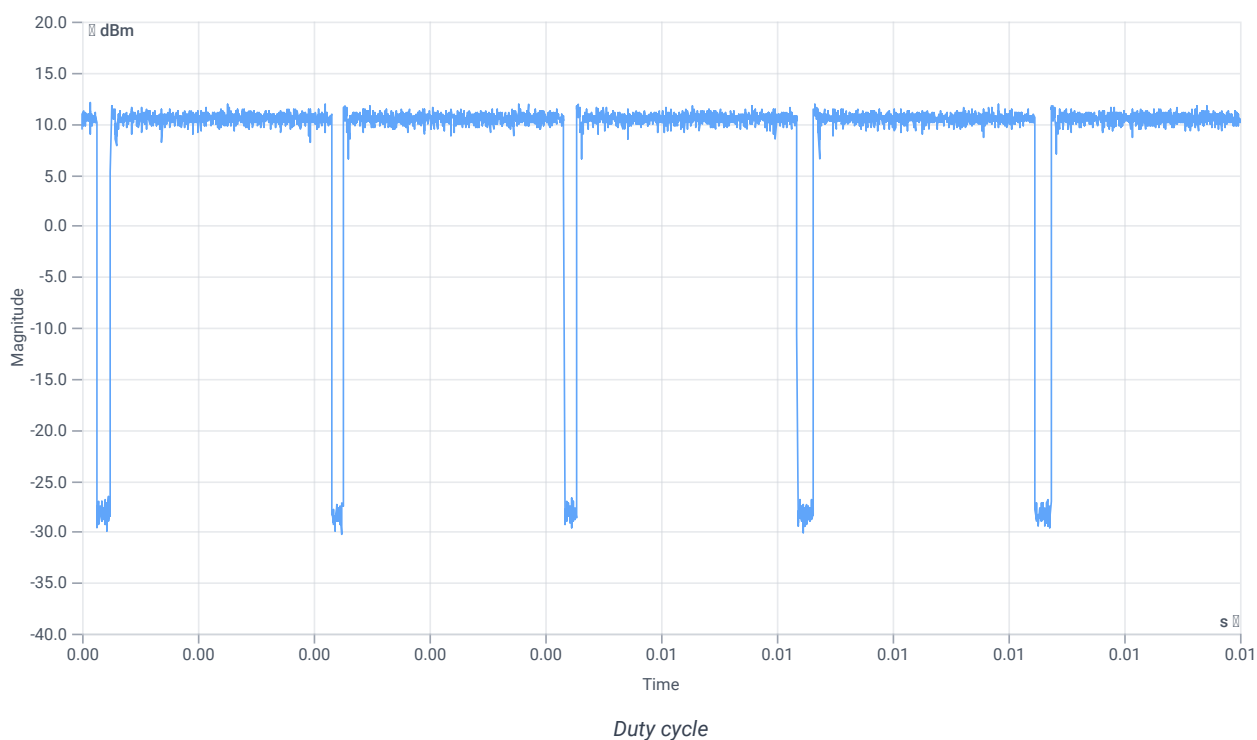
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 8.82     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5787.200 | MHz  | INFO    |

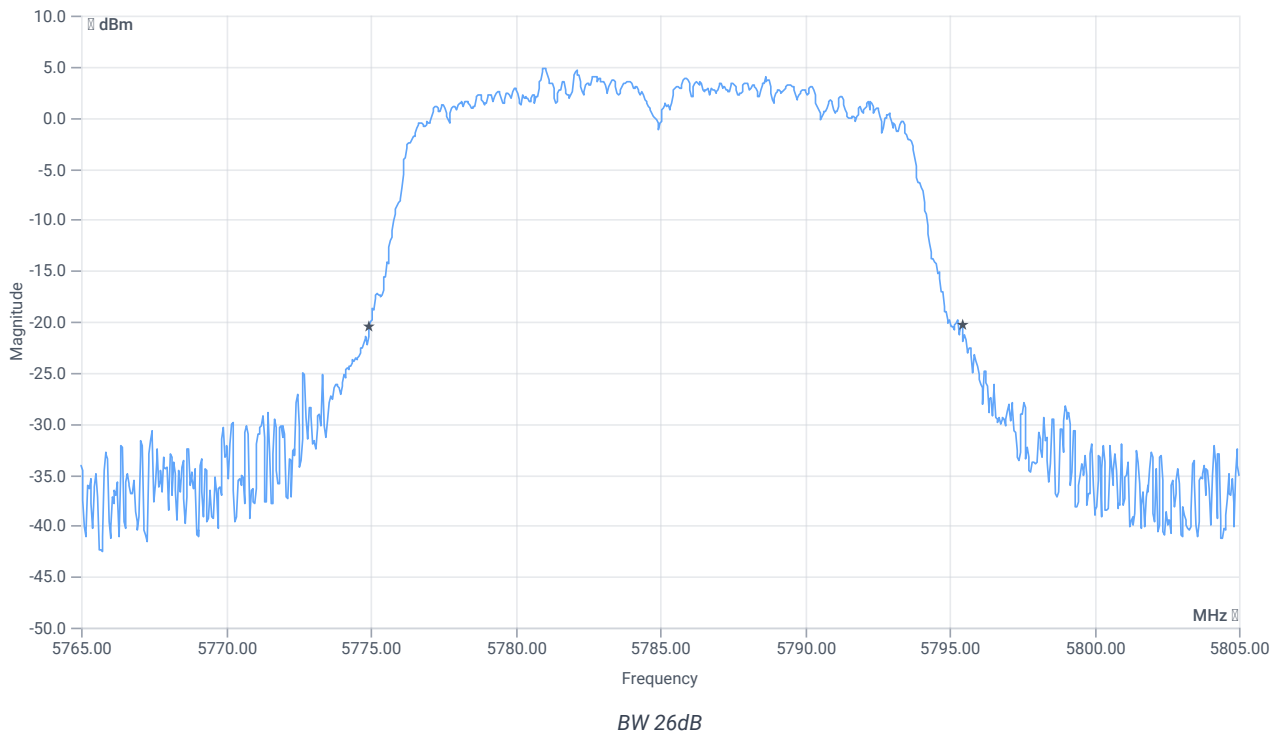
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 4    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.949    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.227    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.928    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.325    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 1.905    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.102    | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.147    | ms   | INFO    |



## Evaluation bandwidth



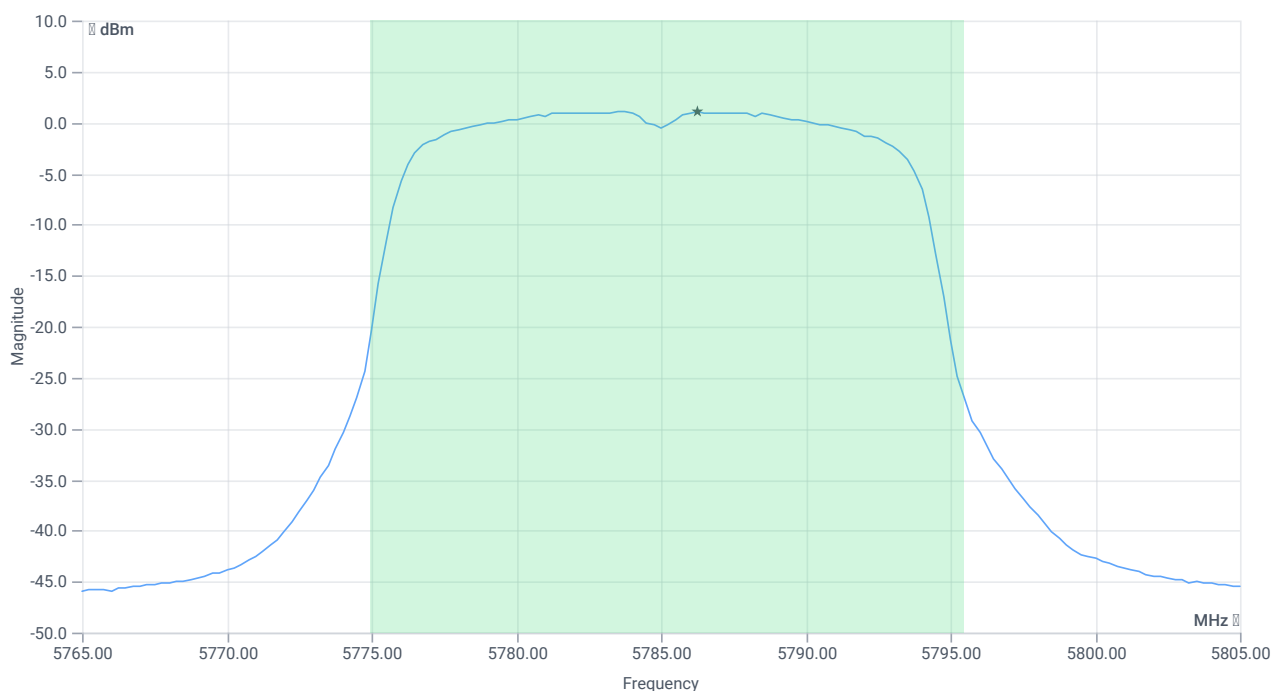
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 20.48     | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5774.9600 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5795.4400 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.82   12.95   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 |



Max OP and PSD

## RESULT

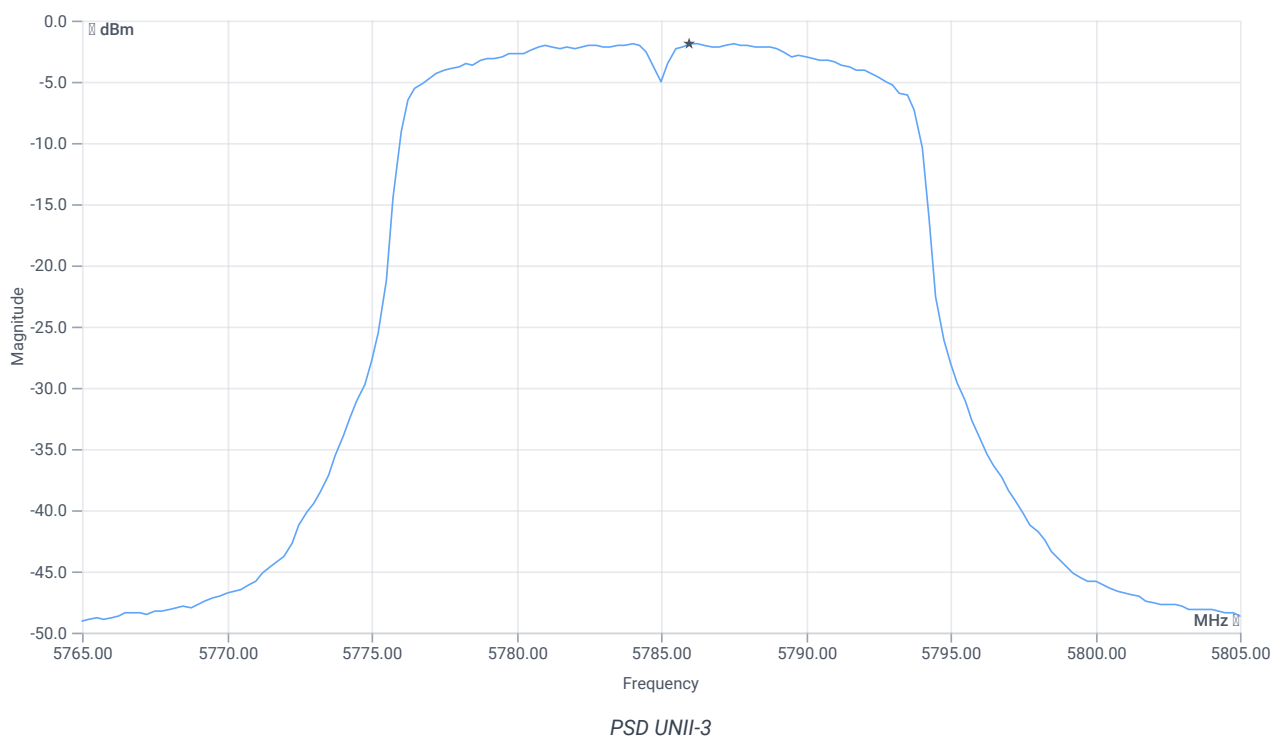
### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                        | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 12.25    | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.32     | dB   | INFO    |
| LIMIT absolute:                    |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 12.57    | dBm  | PASS    |
| LIMIT: 11 dBm + 10 log 20.48       |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 24.11       | 12.57    | dBm  | na      |

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.82   12.95   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              | ---         | ---         | -1.87    | dBm/0.5MHz | INFO    |
| Duty cycle correction                    | ---         | ---         | 0.32     | dB         | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -1.55    | dBm/0.5MHz | PASS    |

### Verdict

PASS

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

## References

|                                   |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| TC start                          | 05.07.2024 12:44:25                                       |
| Ambit temp [°C]   humidity [rel%] | 23.3   46                                                 |
| System version                    | 5.0.7.0                                                   |
| 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

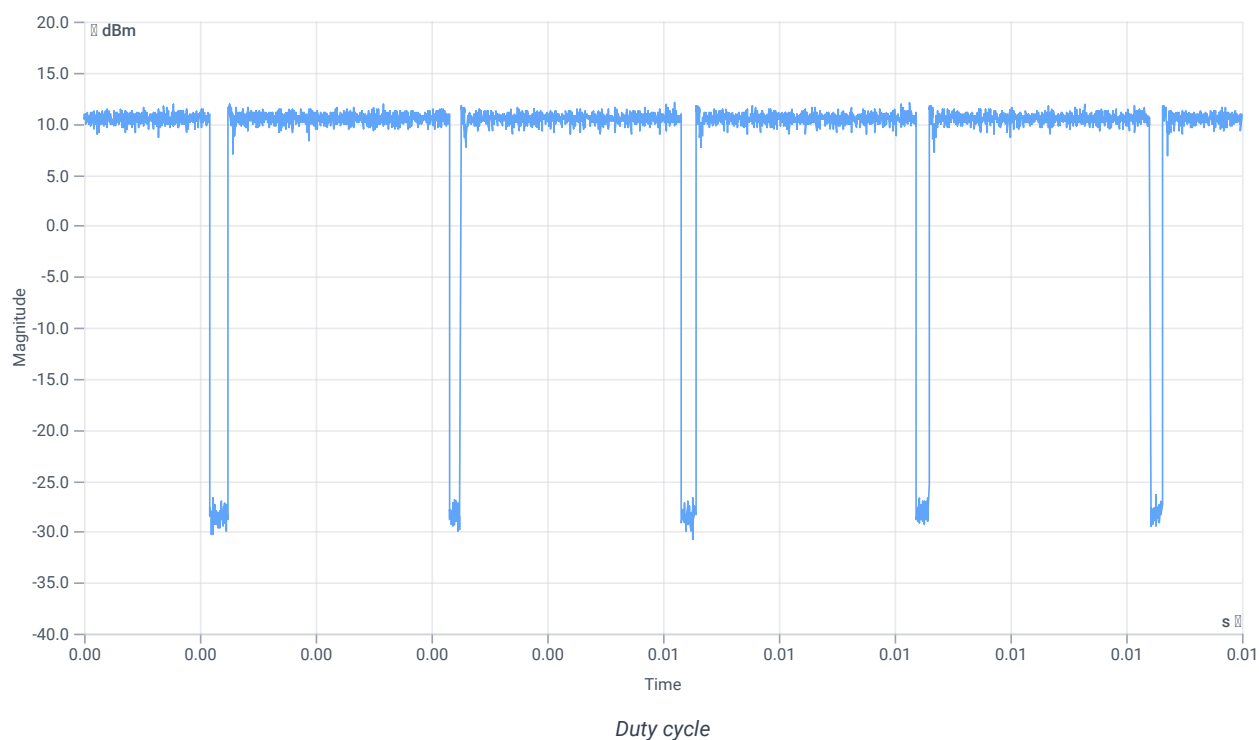
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 8.98     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5781.000 | MHz  | INFO    |

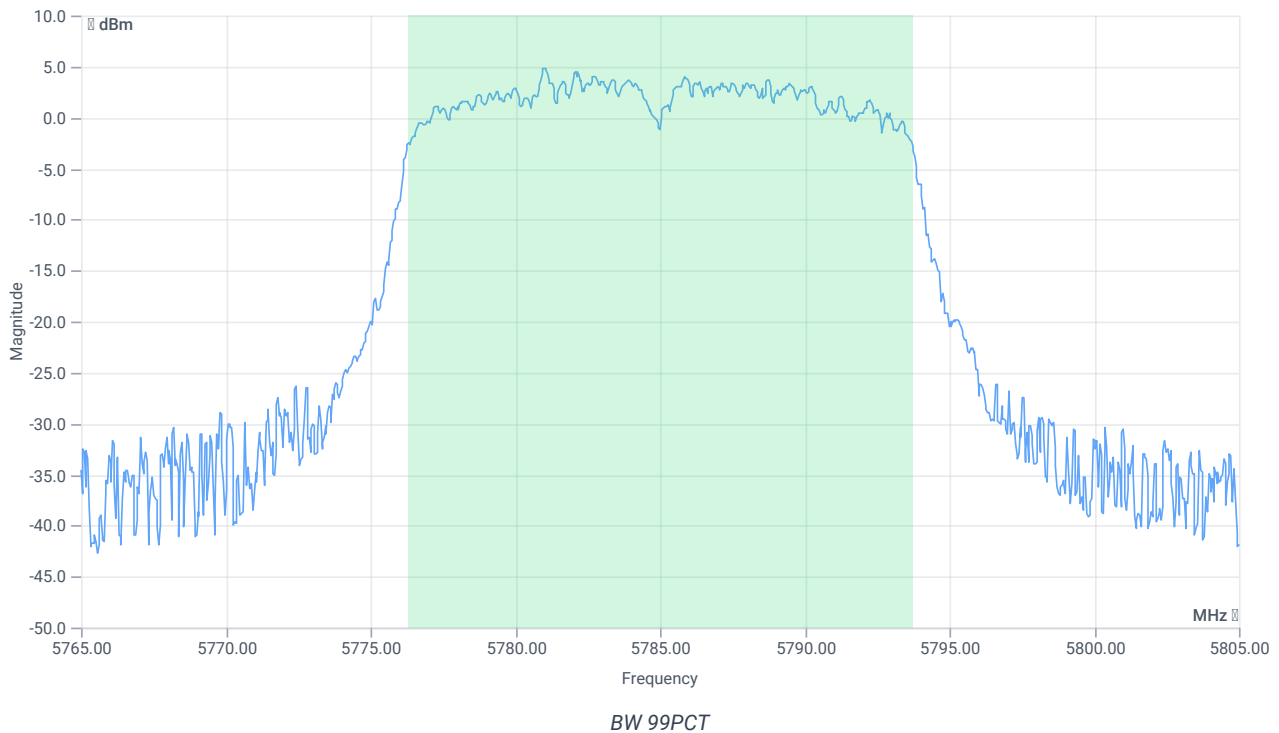
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 4    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.95     | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.223    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.937    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 0.283    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 1.905    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.1      | ms   | INFO    |
| Max gap length                  | ---         | ---         | 0.128    | ms   | INFO    |



## Evaluation bandwidth



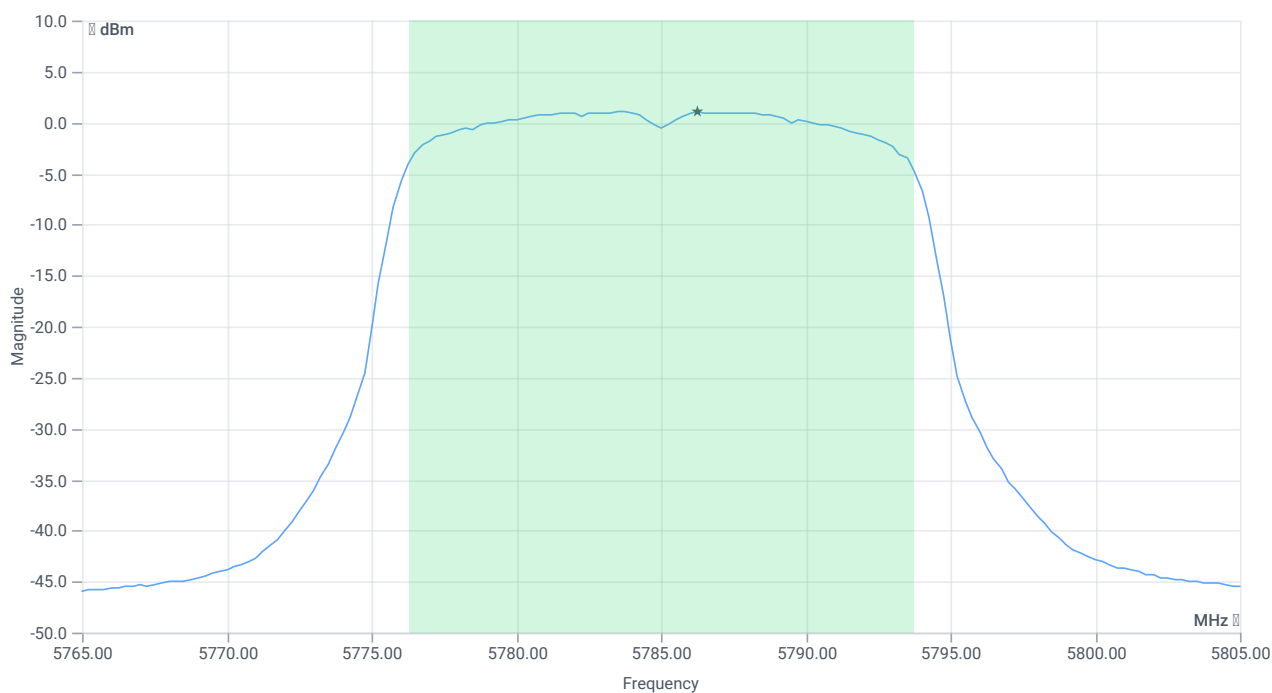
## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 17.463    | MHz  | INFO    |
| T1 99%        | ---         | ---         | 5776.2887 | MHz  | INFO    |
| T2 99%        | ---         | ---         | 5793.7512 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.98   12.95   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 |



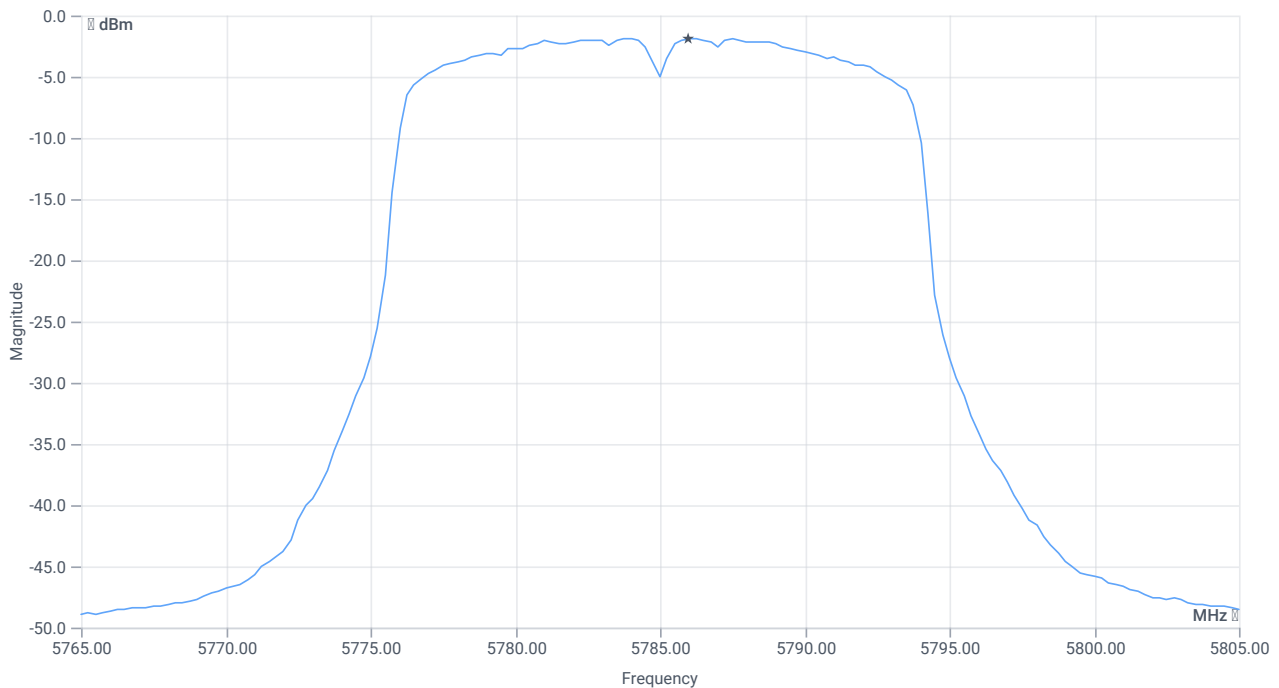
Max OP and PSD (without antenna gain)

## RESULT

| DESCRIPTION                        | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 12.17    | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.28     | dB   | INFO    |
| LIMIT absolute cond                |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 12.45    | dBm  | PASS    |

## READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.98   12.95   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              | ---         |             | -1.88    | dBm/0.5MHz | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -1.6     | dBm/0.5MHz | PASS    |

## Verdict

PASS

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

### References

|                                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| TC start                          | 05.07.2024 13:00:19                                             |
| Ambit temp [°C]   humidity [rel%] | 23.4   45                                                       |
| System version                    | 5.0.7.0                                                         |
| 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

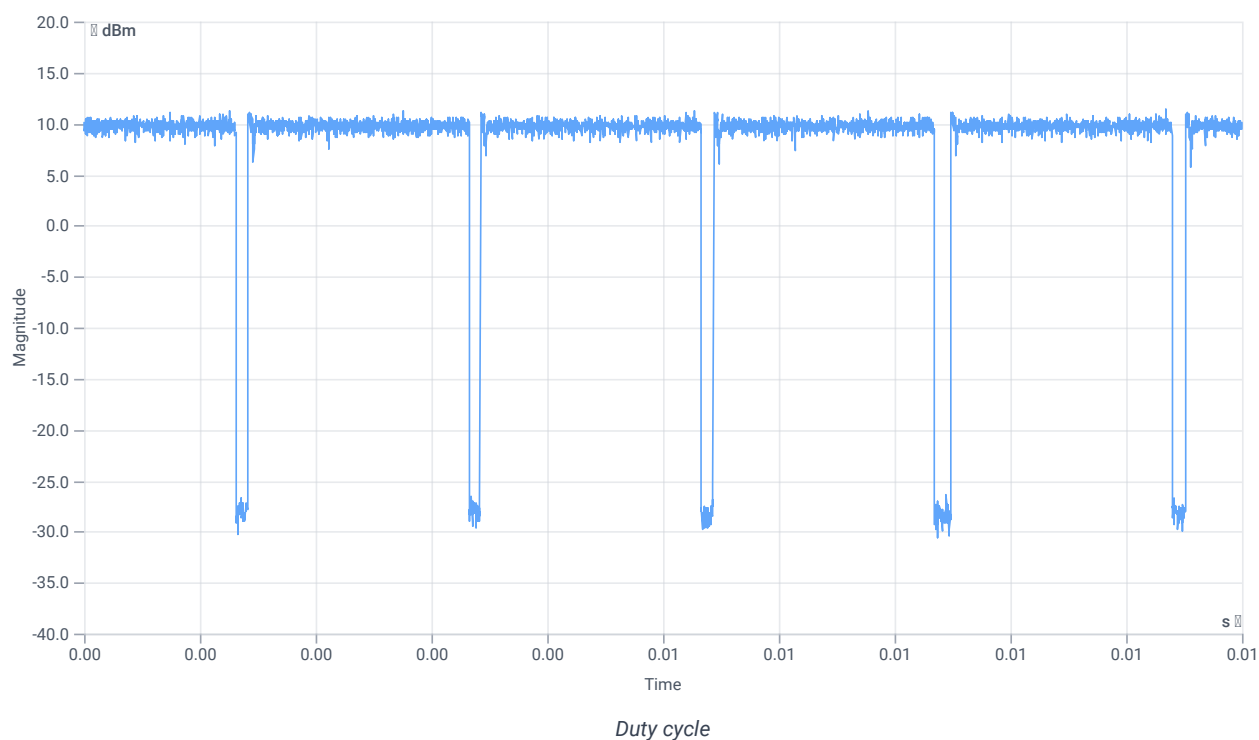
RESULT: Reference power cond.

| DESCRIPTION                | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | ---         | ---         | 8.52     | dBm  | INFO    |
| Ref. frequency             | ---         | ---         | 5822.400 | MHz  | INFO    |

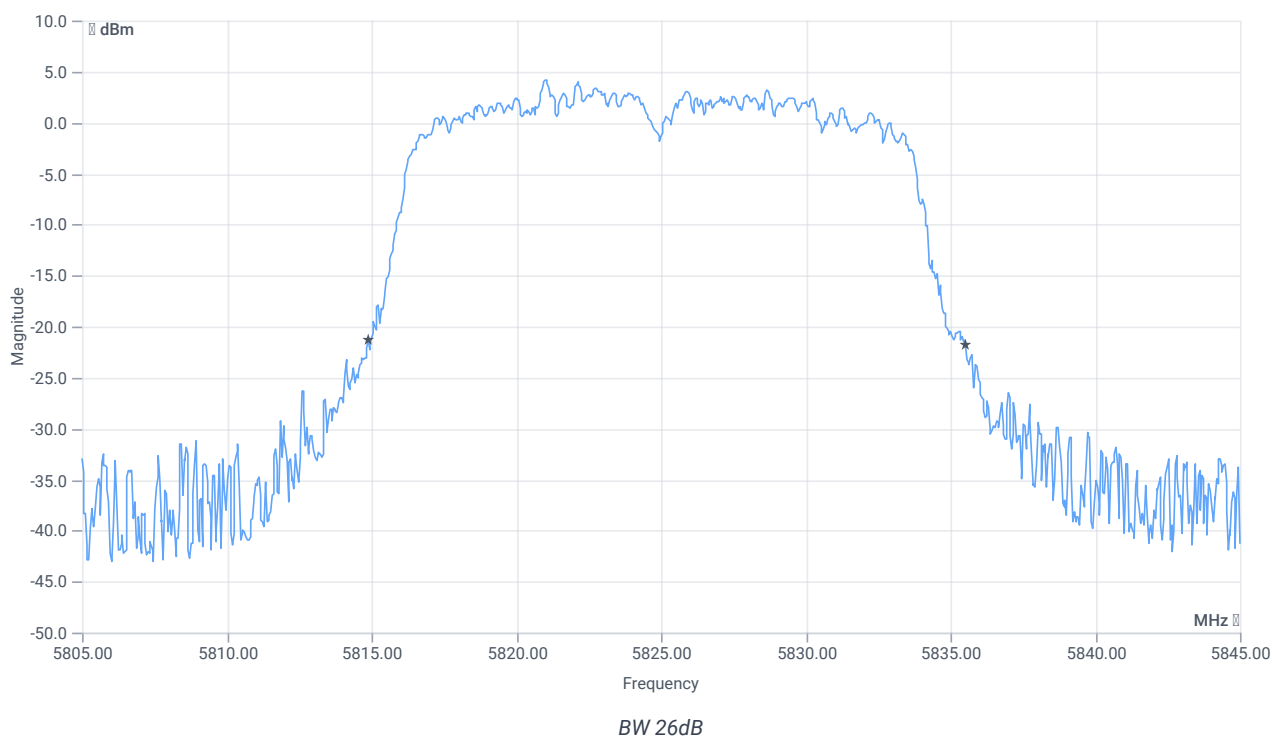
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                  | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result summary               |             |             |          |      |         |
| Number of detected bursts: 4 |             |             |          |      |         |
| Duty cycle (burst Ratio) max | ---         | ---         | 0.95     | ---  | INFO    |
| Duty cycle max               | ---         | ---         | 0.223    | dB   | INFO    |
| Duty cycle (burst Ratio) min | ---         | ---         | 0.929    | ---  | INFO    |
| Duty cycle min               | ---         | ---         | 0.32     | dB   | INFO    |
| Max TX burst length          | ---         | ---         | 1.905    | ms   | INFO    |
| Min gap length               | ---         | ---         | 0.1      | ms   | INFO    |
| Max gap length               | ---         | ---         | 0.145    | ms   | INFO    |



## Evaluation bandwidth



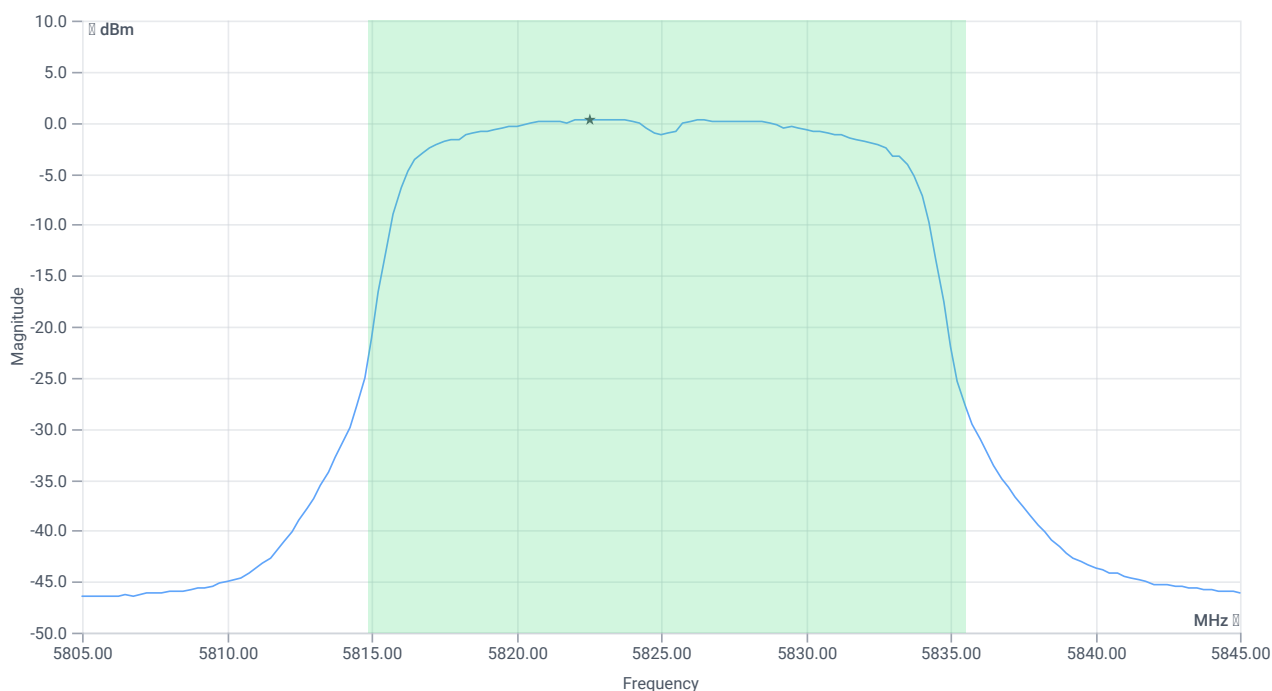
## RESULT

| DESCRIPTION    | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB | ---         | ---         | 20.64     | MHz  | INFO    |
| T1 26dB        | ---         | ---         | 5814.8800 | MHz  | INFO    |
| T2 26dB        | ---         | ---         | 5835.5200 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.52   12.88   25   |
| 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

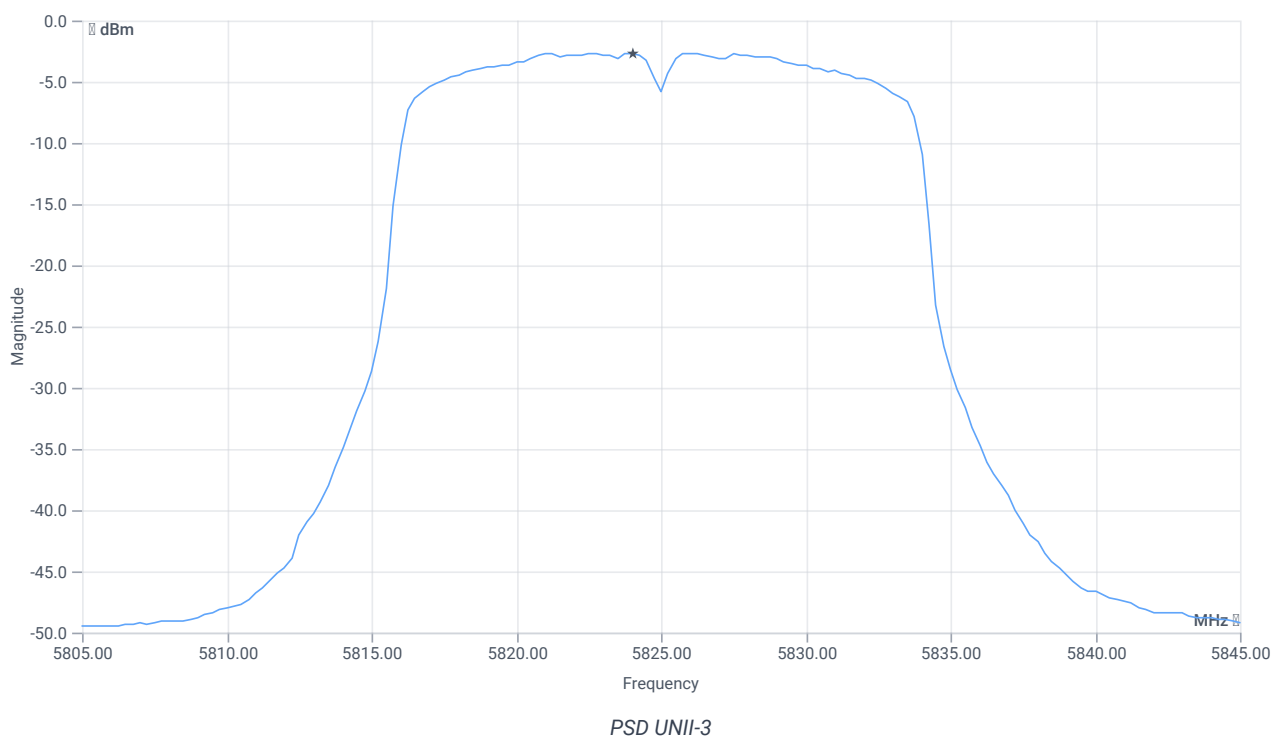
### CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

| Description                        | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 11.52    | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 0.32     | dB   | INFO    |
| LIMIT absolute:                    |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 11.84    | dBm  | PASS    |
| LIMIT: 11 dBm + 10 log 20.64       |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 24.15       | 11.84    | dBm  | na      |

## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.52   12.88   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              | ---         | ---         | -2.65    | dBm/0.5MHz | INFO    |
| Duty cycle correction                    | ---         | ---         | 0.32     | dB         | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -2.33    | dBm/0.5MHz | PASS    |

### Verdict

PASS

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

## References

|                                   |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| TC start                          | 05.07.2024 13:01:03                                       |
| Ambit temp [°C]   humidity [rel%] | 23.4   45                                                 |
| System version                    | 5.0.7.0                                                   |
| 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

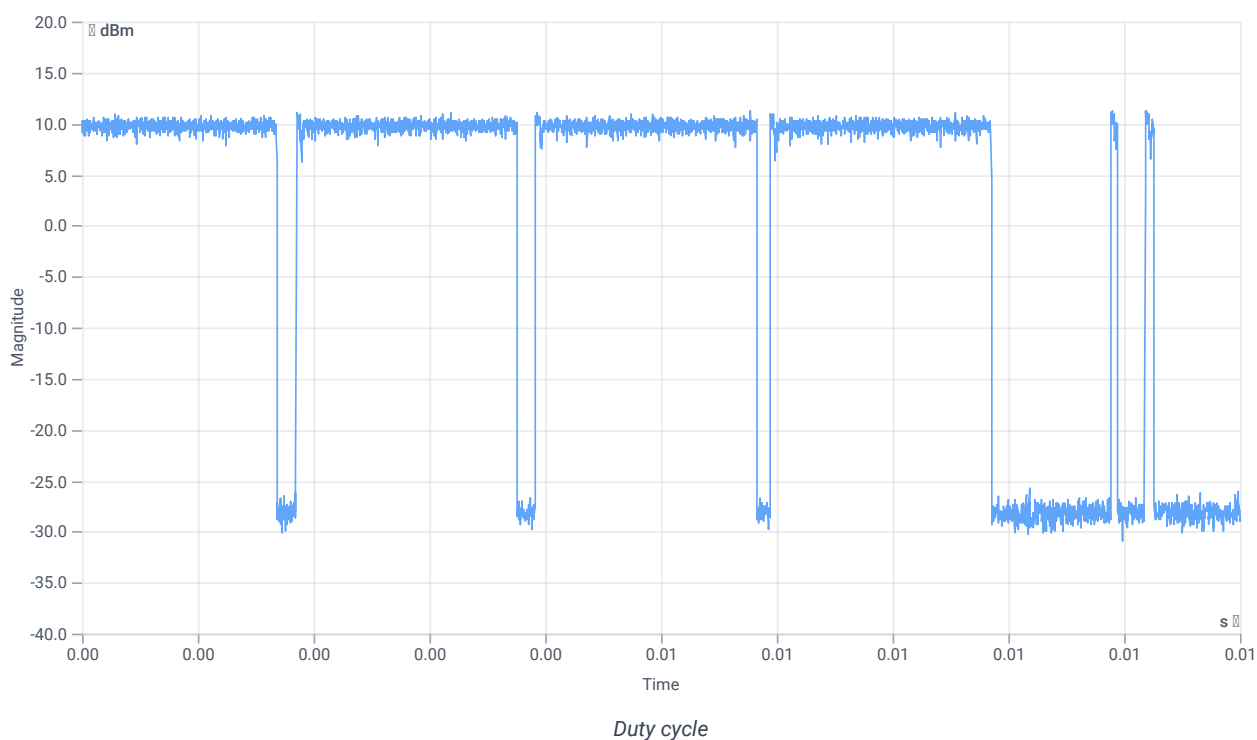
RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 8.51     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5823.400 | MHz  | INFO    |

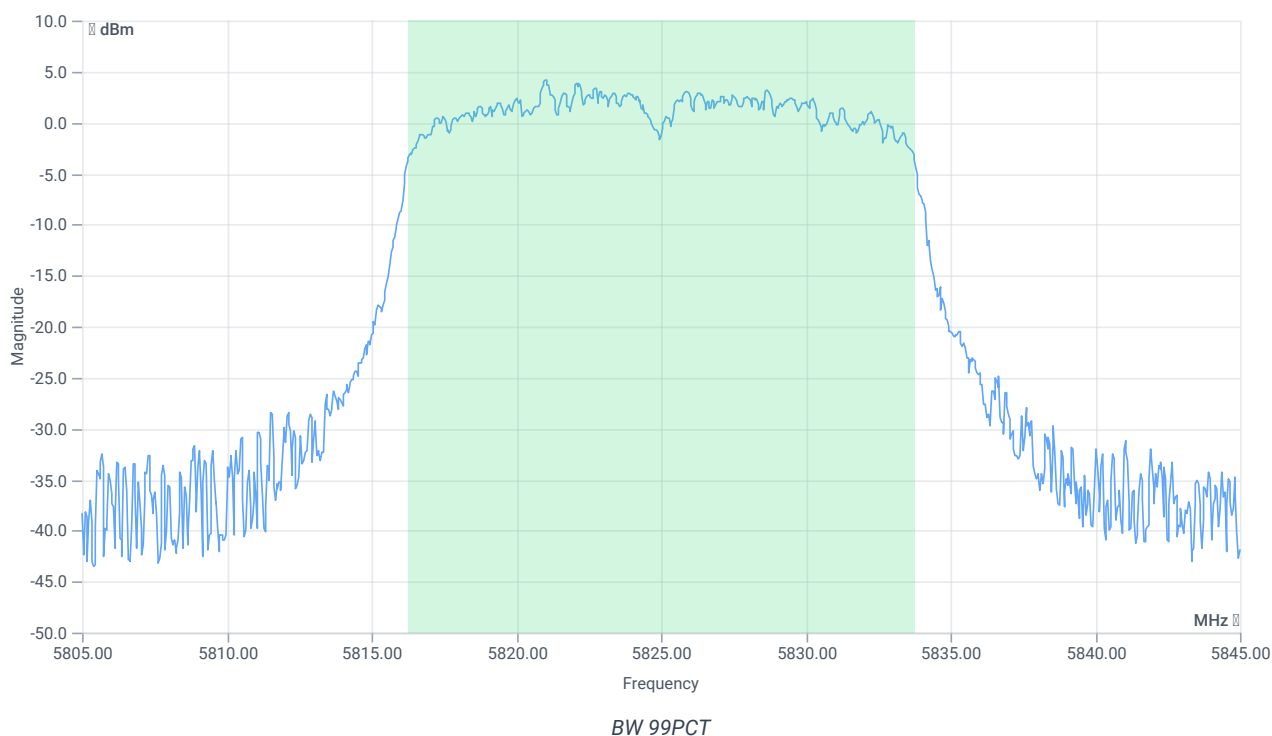
## Evaluation max. duty cycle

### DUTY CYCLE EVALUATION

| DESCRIPTION                     | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Result summary                  |             |             |          |      |         |
| Number of detected bursts: 4    |             |             |          |      |         |
| Duty cycle (burst<br>Ratio) max | ---         | ---         | 0.941    | ---  | INFO    |
| Duty cycle max                  | ---         | ---         | 0.264    | dB   | INFO    |
| Duty cycle (burst<br>Ratio) min | ---         | ---         | 0.648    | ---  | INFO    |
| Duty cycle min                  | ---         | ---         | 1.884    | dB   | INFO    |
| Max TX burst length             | ---         | ---         | 1.905    | ms   | INFO    |
| Min gap length                  | ---         | ---         | 0.12     | ms   | INFO    |
| Max gap length                  | ---         | ---         | 1.035    | ms   | INFO    |



## Evaluation bandwidth



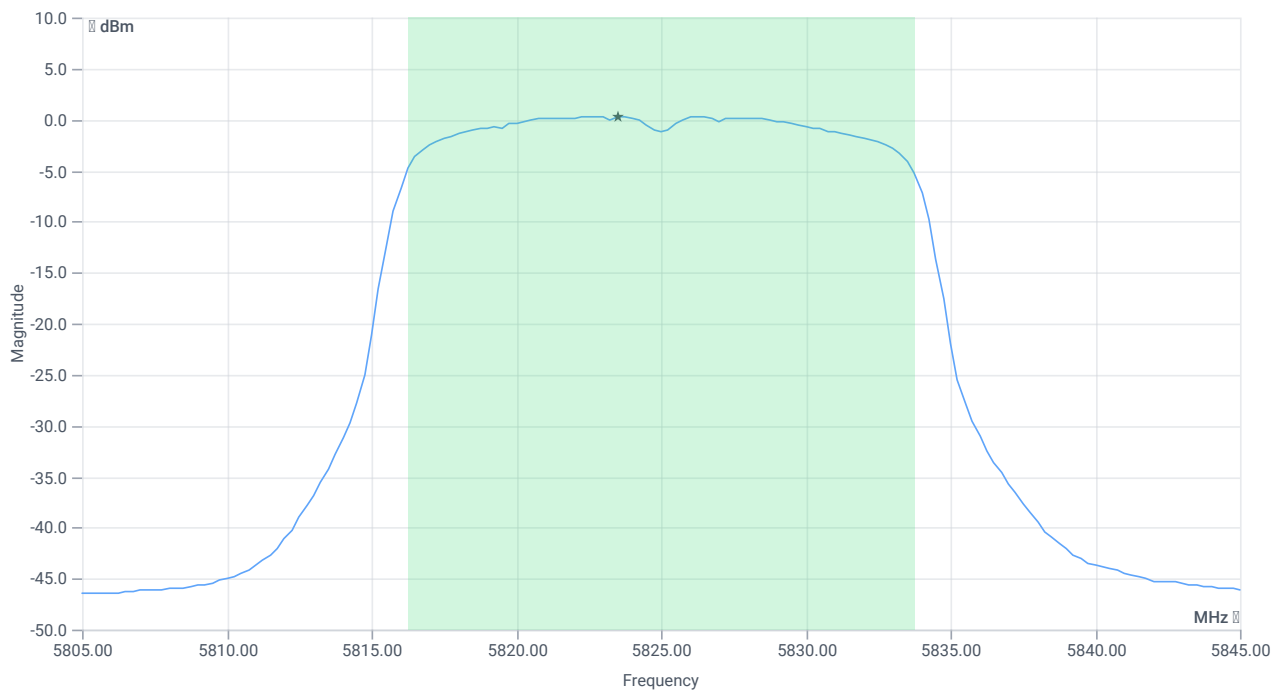
## RESULT

| DESCRIPTION   | LOWER LIMIT | UPPER LIMIT | MEASURED  | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | ---         | ---         | 17.502    | MHz  | INFO    |
| T1 99%        | ---         | ---         | 5816.2488 | MHz  | INFO    |
| T2 99%        | ---         | ---         | 5833.7512 | MHz  | INFO    |

## Maximum Output Power

### READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.51   12.88   25   |
| 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 |



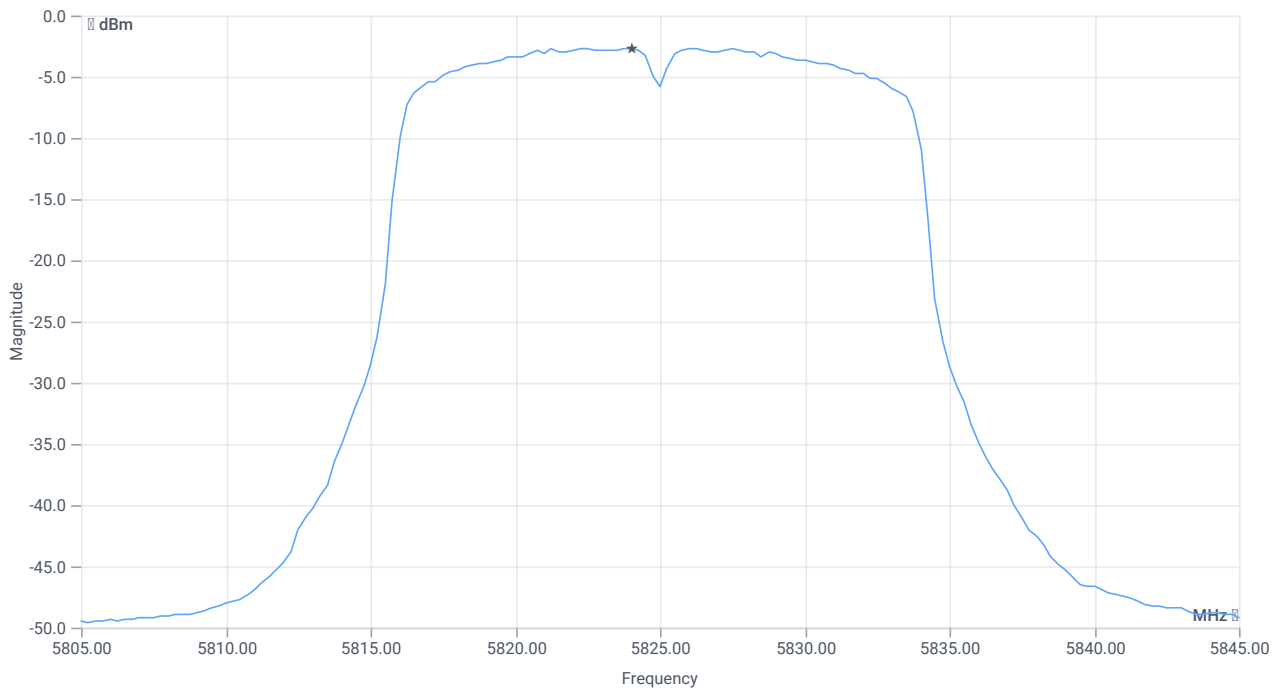
Max OP and PSD (without antenna gain)

## RESULT

| DESCRIPTION                        | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Max output power cond              | ---         | ---         | 11.45    | dBm  | INFO    |
| Duty cycle correction              | ---         | ---         | 1.88     | dB   | INFO    |
| LIMIT absolute cond                |             |             |          |      |         |
| Max output power DC corrected cond | ---         | 30          | 13.33    | dBm  | PASS    |

## READ SA SETTINGS:

|                                                      |                      |
|------------------------------------------------------|----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.51   12.88   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              | ---         |             | -2.66    | dBm/0.5MHz | INFO    |
| Power spectral density DC corrected cond | ---         | 30          | -0.78    | dBm/0.5MHz | PASS    |

## Verdict

PASS

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

### References

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| TC start                          | 05.07.2024 12:08:19                                        |
| Ambit temp [°C]   humidity [rel%] | 22.9   47                                                  |
| System version                    | 5.0.7.0                                                    |
| 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       |

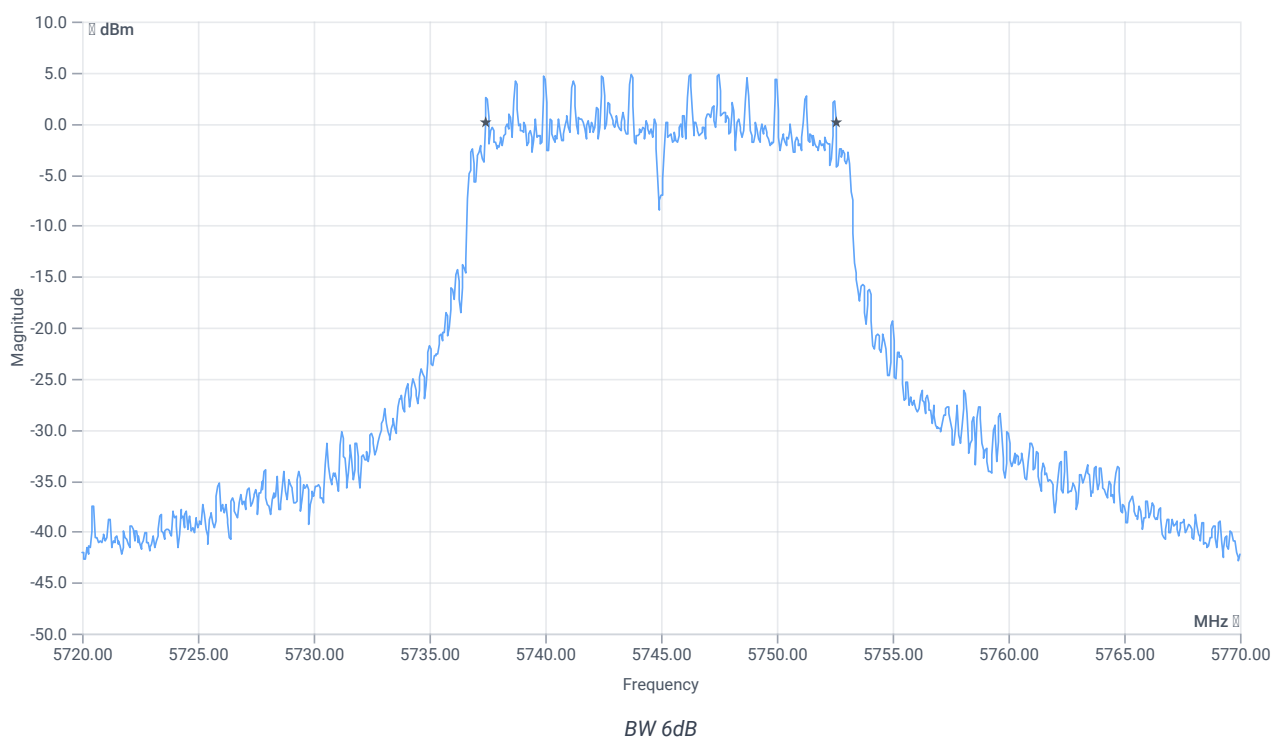
## Test at TX 5745 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 12.60    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5746.600 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 24.60   12.82   30    |
| 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       | ---         | 15.15    | MHz  | PASS    |

#### Verdict

PASS

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

### References

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| TC start                          | 05.07.2024 12:15:18                                        |
| Ambit temp [°C]   humidity [rel%] | 22.9   47                                                  |
| System version                    | 5.0.7.0                                                    |
| 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       |

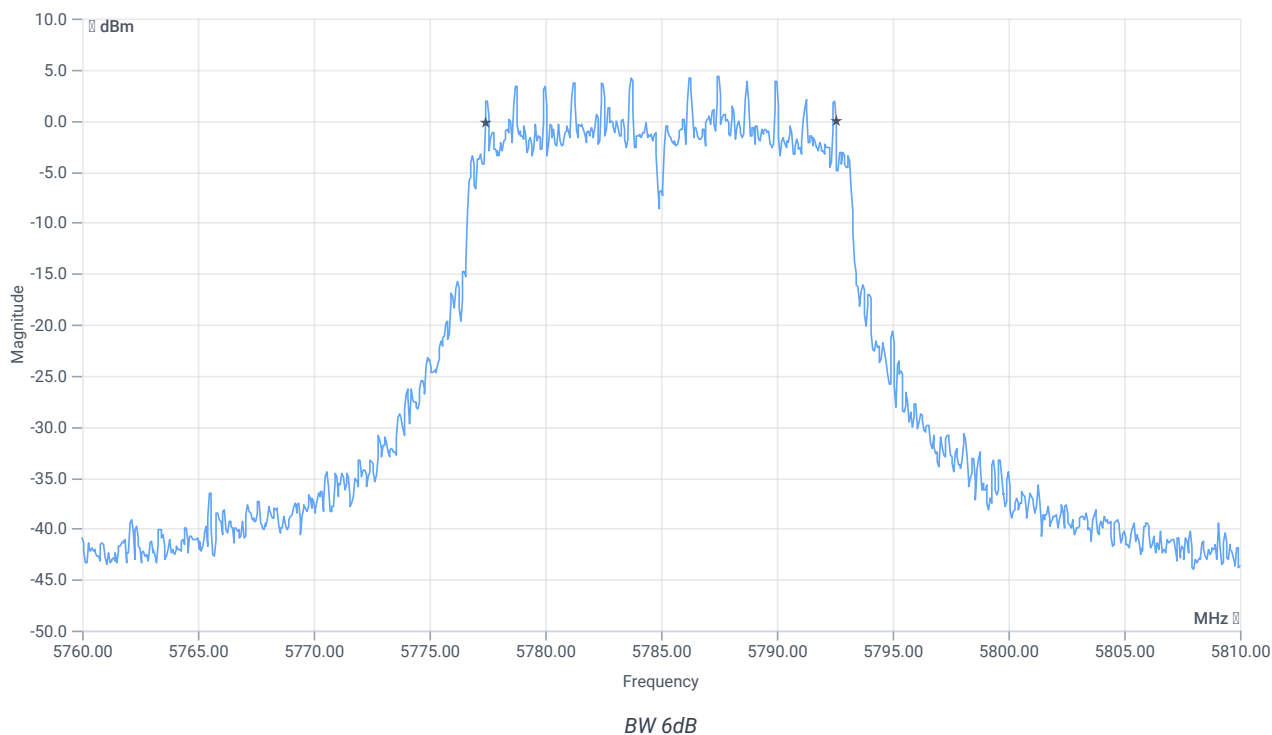
## Test at TX 5785 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 11.84    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5786.400 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 23.84   12.95   30    |
| 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       | ---         | 15.15    | MHz  | PASS    |

#### Verdict

PASS

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

### References

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| TC start                          | 05.07.2024 12:20:16                                        |
| Ambit temp [°C]   humidity [rel%] | 23.0   46                                                  |
| System version                    | 5.0.7.0                                                    |
| 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       |

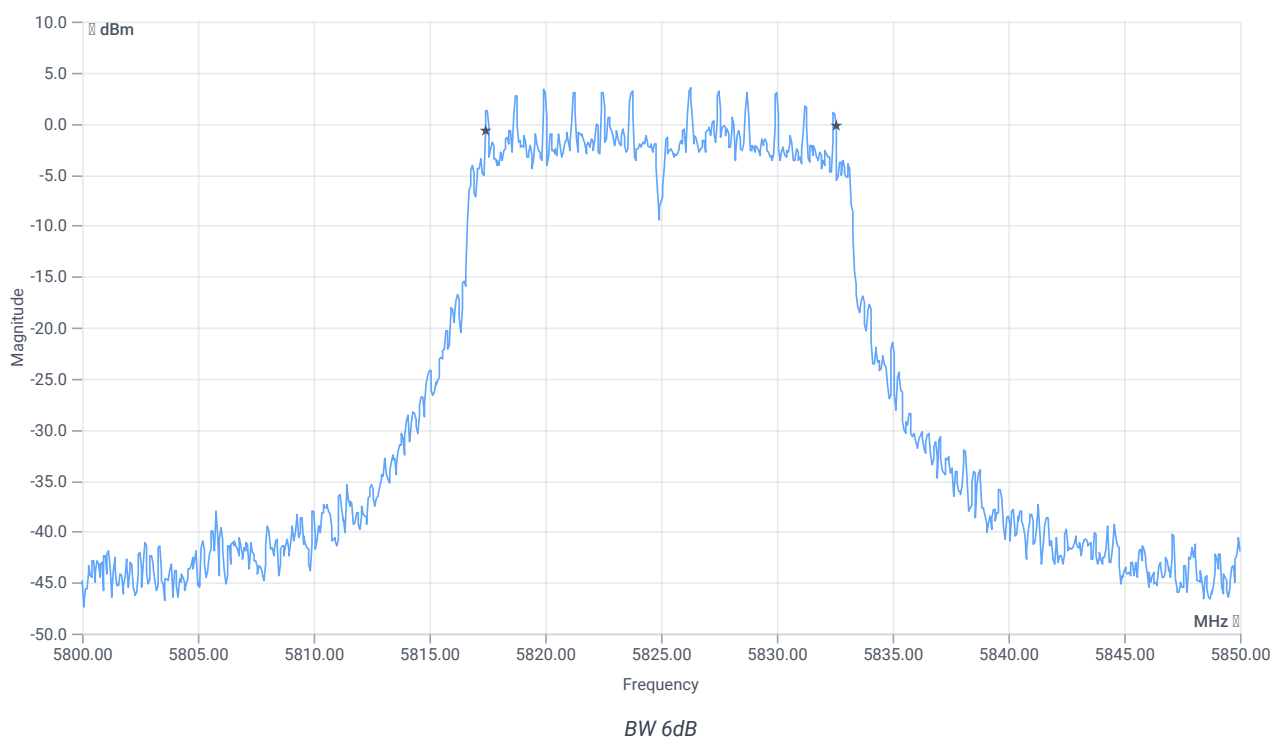
## Test at TX 5825 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 10.69    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5826.200 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 22.69   12.88   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 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3

### References

|                                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| TC start                          | 05.07.2024 12:30:37                                             |
| Ambit temp [°C]   humidity [rel%] | 23.1   47                                                       |
| System version                    | 5.0.7.0                                                         |
| 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       |

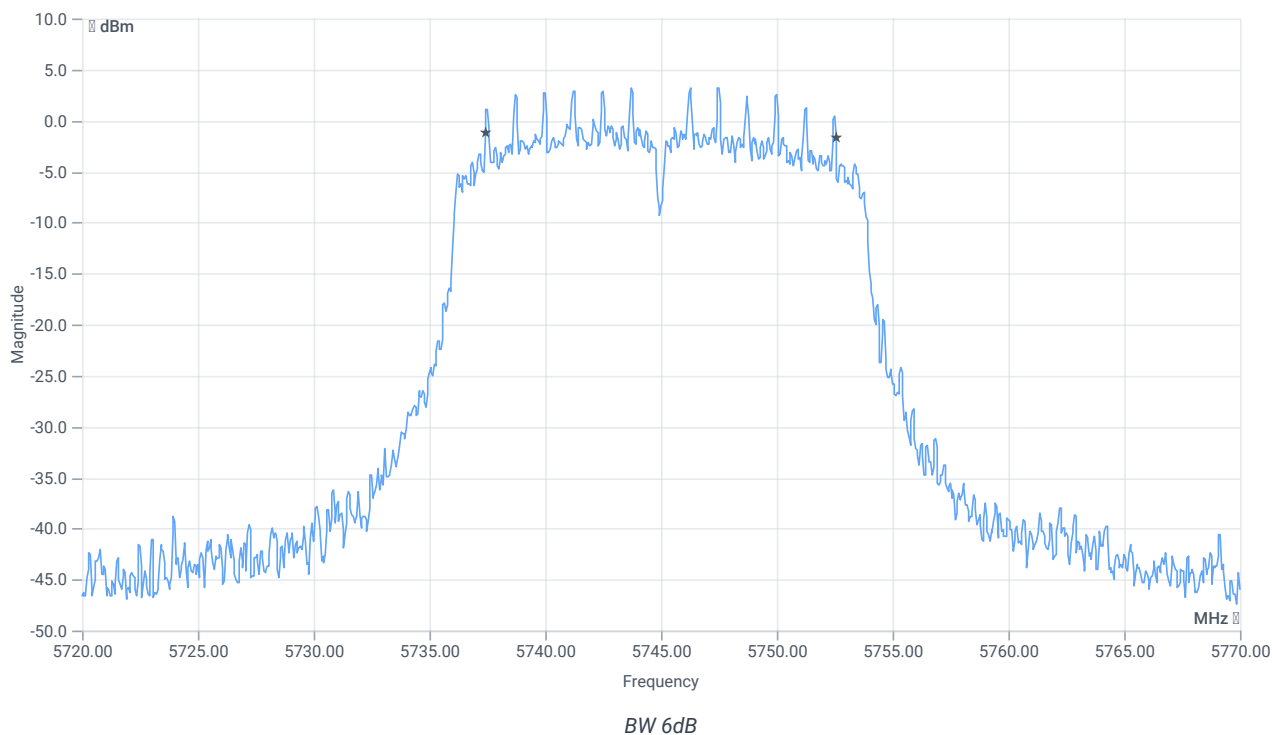
## Test at TX 5745 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 10.13    | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5741.000 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 22.13   12.82   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       | ---         | 15.15    | MHz  | PASS    |

#### Verdict

PASS

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

### References

|                                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| TC start                          | 05.07.2024 12:45:41                                             |
| Ambit temp [°C]   humidity [rel%] | 23.3   46                                                       |
| System version                    | 5.0.7.0                                                         |
| 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       |

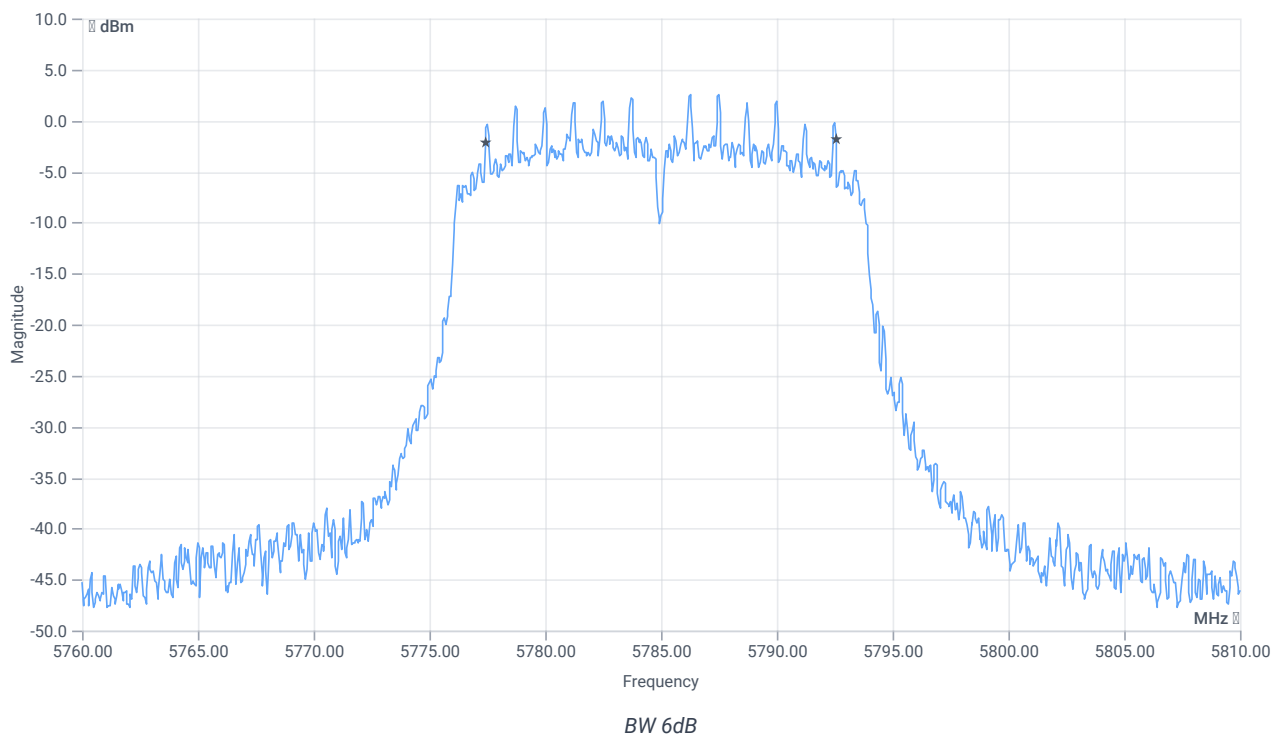
## Test at TX 5785 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 9.05     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5789.600 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 21.05   12.95   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       | ---         | 15.15    | MHz  | PASS    |

#### Verdict

PASS

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

### References

|                                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| TC start                          | 05.07.2024 13:02:25                                             |
| Ambit temp [°C]   humidity [rel%] | 23.4   45                                                       |
| System version                    | 5.0.7.0                                                         |
| 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       |

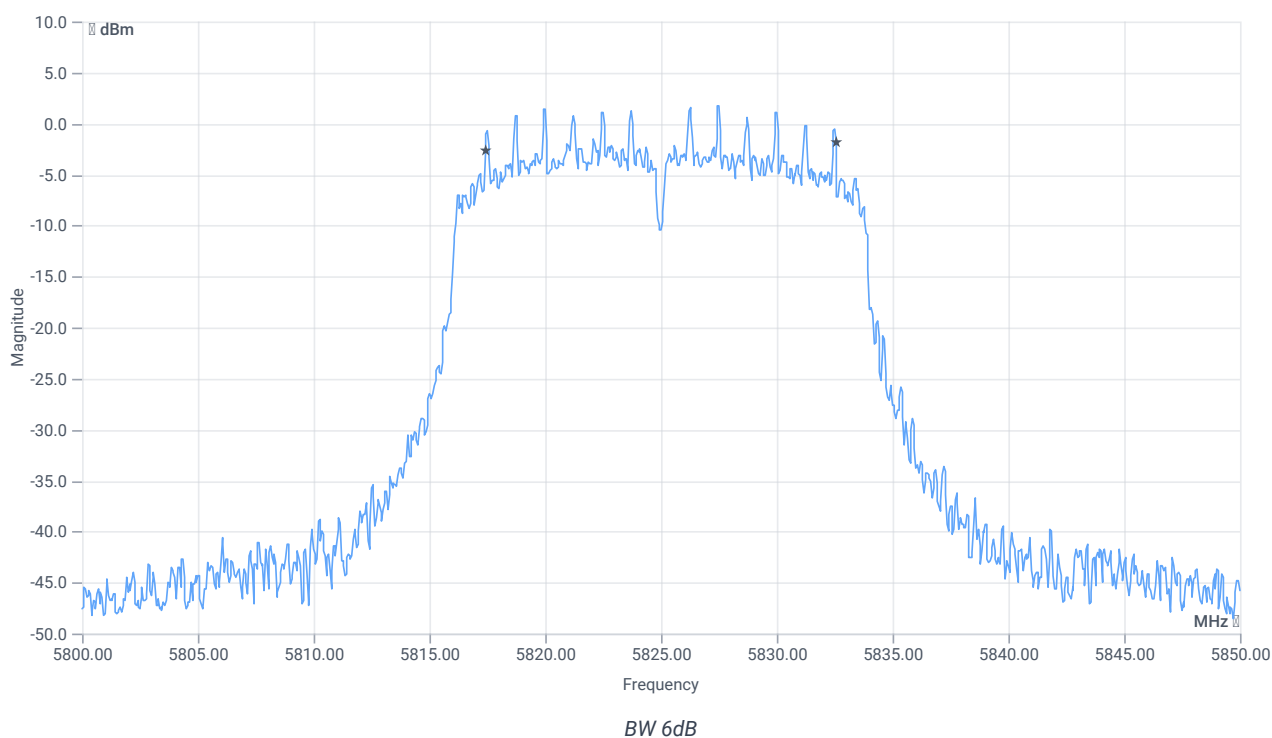
## Test at TX 5825 MHz

RESULT: Reference power cond.

| DESCRIPTION                   | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power<br>1MHz/1MHz cond. | ---         | ---         | 8.49     | dBm  | INFO    |
| Ref. frequency                | ---         | ---         | 5821.800 | MHz  | INFO    |

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.49   12.88   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

- END OF DOCUMENT -