

## Test at TX 5230 MHz

### RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 5.34     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5221.410 | MHz  | INFO    |

## Evaluation max. Duty Cycle

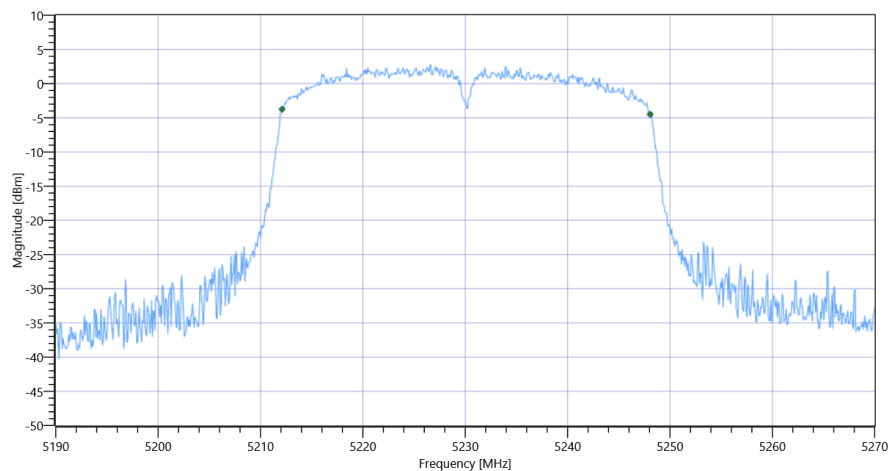
### Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

### RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 35.964    | MHz  | INFO    |
| T1 99%           | ---         | ---         | 5212.0979 | MHz  | INFO    |
| T2 99%           | ---         | ---         | 5248.0619 | MHz  | INFO    |



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1\_BW

## Maximum Output Power

### READ SA SETTINGS:

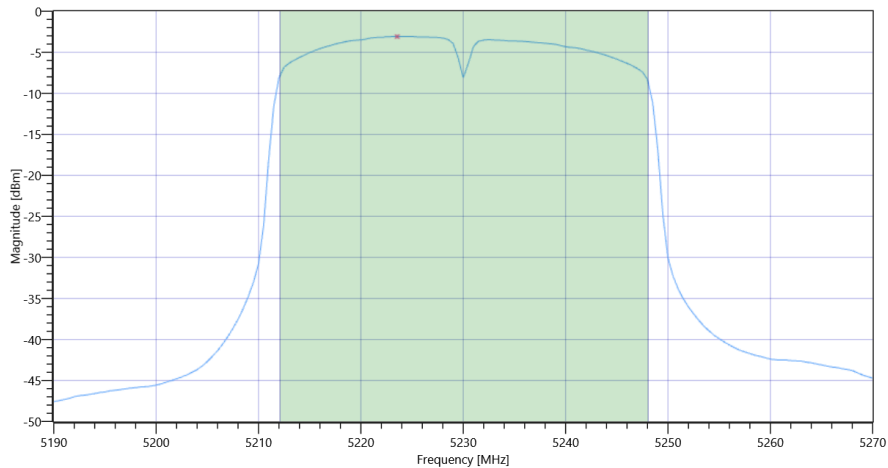
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 17.34   11.51   20    |
| Start [MHz]   Stop [MHz]                             | 5190.000   5270.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

### RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 11.04    | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 24          | 11.04    | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 26.56       | 11.04    | dBm  | not applicable |



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1 Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -3.08    | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | -3.08    | dBm/1MHz | PASS    |

General verdict

PASS

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1

### Test References

|                                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| TC Start                          | 02.08.2022 15:57:05                                             |
| Ambit Temp [°C]   Humidity [rel%] | 29.3   34                                                       |
| System Version                    | 3.3.0.1                                                         |
| Test Specification                | FCC 15.247 -                                                    |
| Test Method                       | KDB789033 D02, F., E.2.e.                                       |
| TC Version                        | 0.0.1                                                           |
| My Description                    | FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-1 |
| Add. Information                  |                                                                 |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT40 mode                    |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5190                |
| Frequency mid to test                            | False   Freq [MHz] 0                   |
| Frequency high to test                           | True   Freq [MHz] 5230                 |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5230 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 5.27     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5224.010 | MHz  | INFO    |

## Evaluation max. Duty Cycle

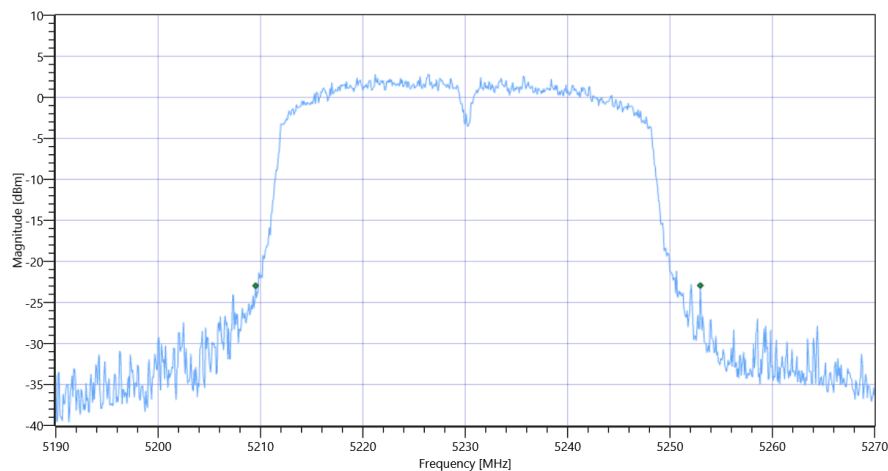
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB   | ---         | ---         | 43.44     | MHz  | INFO    |
| T1 26dB          | ---         | ---         | 5209.5200 | MHz  | INFO    |
| T2 26dB          | ---         | ---         | 5252.9600 | MHz  | INFO    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1\_BW

## Maximum Output Power

READ SA SETTINGS:

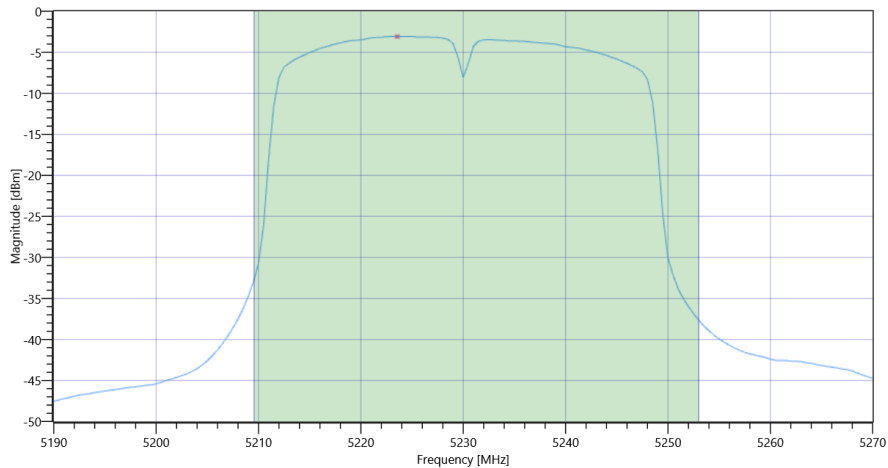
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 17.27   11.51   20    |
| Start [MHz]   Stop [MHz]                             | 5190.000   5270.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 11.09    | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 24          | 11.09    | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 27.38       | 11.09    | dBm  | not applicable |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1 Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -3.08    | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | -3.08    | dBm/1MHz | PASS    |

General verdict

PASS

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

| Test References                   |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| TC Start                          | 02.08.2022 15:45:11                                       |
| Ambit Temp [°C]   Humidity [rel%] | 29.3   35                                                 |
| System Version                    | 3.3.0.1                                                   |
| Test Specification                | ISED RSS247 -                                             |
| Test Method                       |                                                           |
| TC Version                        | 0.0.1                                                     |
| My Description                    | ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3 |
| Add. Information                  |                                                           |

| EUT Common Settings WLAN5Gx |        |
|-----------------------------|--------|
| Number of Antenna Ports     | 1      |
| User Interaction            | No     |
| Device Class UNII_1         | Client |

| Test Parameter                                   |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| 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]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

| Test Equipment                                                |  |
|---------------------------------------------------------------|--|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |  |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |  |

## Test at TX 5825 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 7.20     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5826.000 | MHz  | INFO    |

## Evaluation max. Duty Cycle

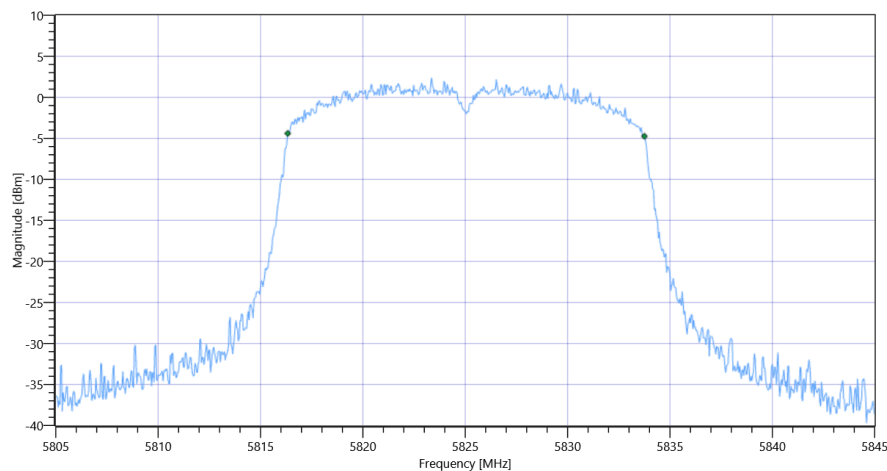
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 17.423    | MHz  | INFO    |
| T1 99%           | ---         | ---         | 5816.3287 | MHz  | INFO    |
| T2 99%           | ---         | ---         | 5833.7512 | MHz  | INFO    |



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

## Maximum Output Power

READ SA SETTINGS:

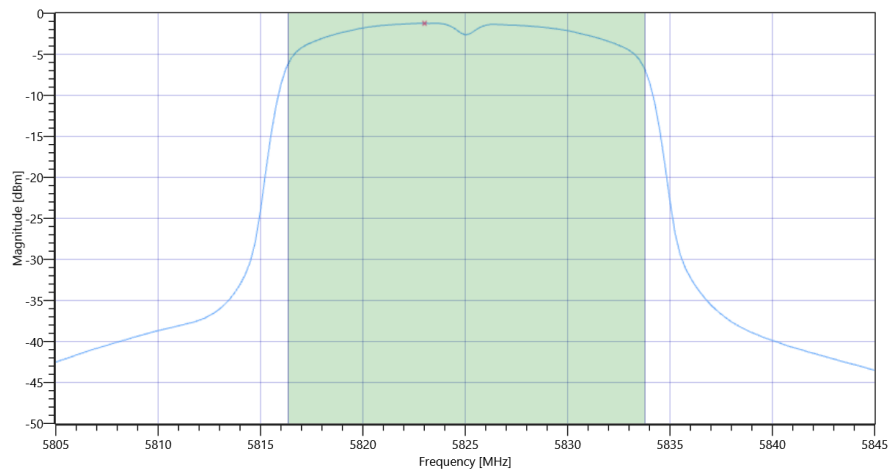
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.20   11.58   25    |
| Start [MHz]   Stop [MHz]                             | 5805.000   5845.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 9.9      | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 30          | 9.9      | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 23.41       | 9.9      | dBm  | not applicable |



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

## Power Spectral Density U-NII-3

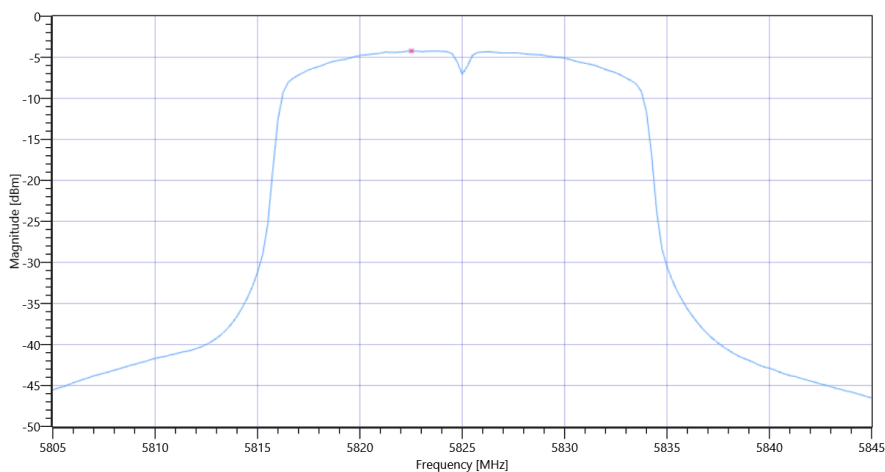
### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.20   11.58   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 | 53700   1   161   SWE |

## RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|-------------------------------------------|-------------|-------------|----------|------------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -4.23    | dBm/0.5MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB         | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 30          | -4.23    | dBm/0.5MHz | PASS    |





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

General verdict

PASS

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

### Test References

|                                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| TC Start                          | 02.08.2022 15:42:28                                             |
| Ambit Temp [°C]   Humidity [rel%] | 29.3   35                                                       |
| System Version                    | 3.3.0.1                                                         |
| Test Specification                | FCC 15.247 -                                                    |
| Test Method                       | KDB789033 D02, F., E.2.e.                                       |
| TC Version                        | 0.0.1                                                           |
| My Description                    | FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3 |
| Add. Information                  |                                                                 |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| 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]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5825 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 7.31     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5828.200 | MHz  | INFO    |

## Evaluation max. Duty Cycle

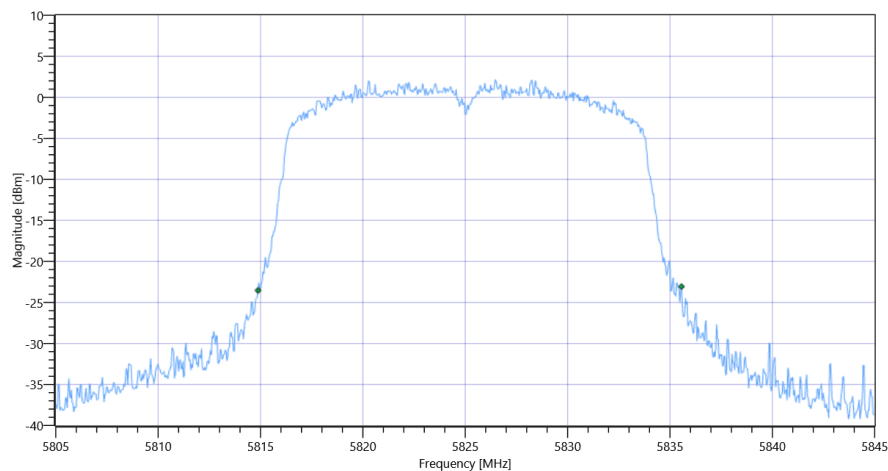
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB   | ---         | ---         | 20.68     | MHz  | INFO    |
| T1 26dB          | ---         | ---         | 5814.8800 | MHz  | INFO    |
| T2 26dB          | ---         | ---         | 5835.5600 | MHz  | INFO    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3\_BW

## Maximum Output Power

READ SA SETTINGS:

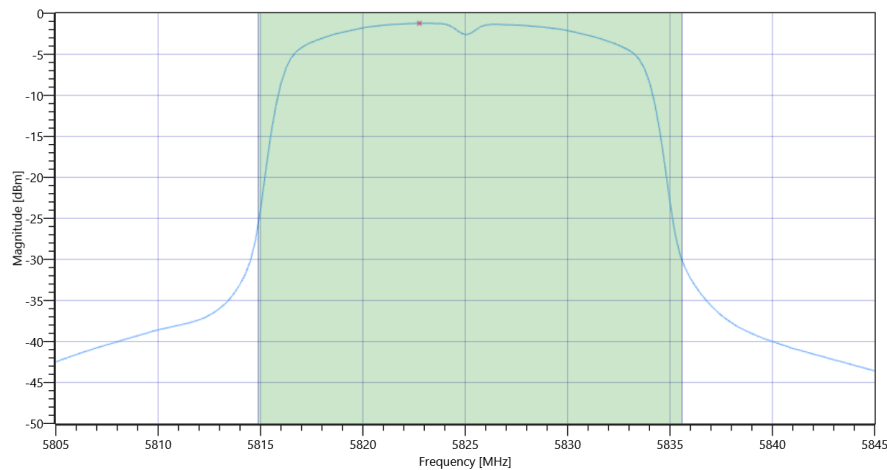
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.31   11.58   25    |
| Start [MHz]   Stop [MHz]                             | 5805.000   5845.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 9.99     | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 30          | 9.99     | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 24.16       | 9.99     | dBm  | not applicable |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3 Max OP and PSD

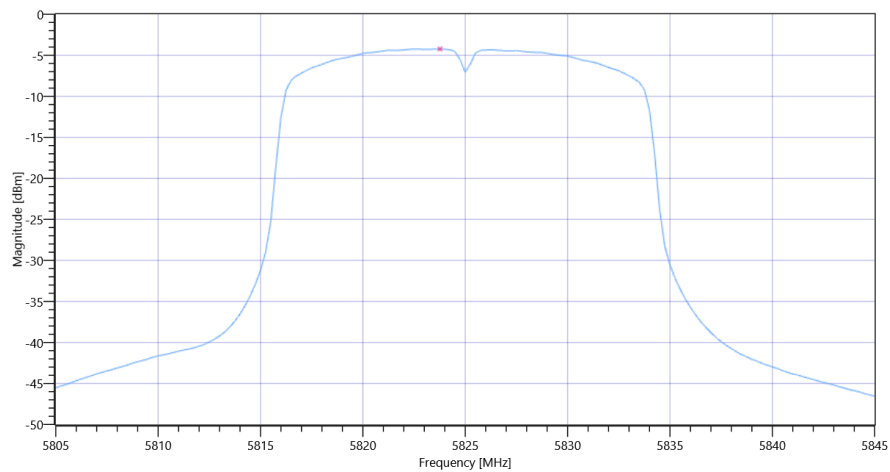
## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.31   11.58   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 | 53700   1   161   SWE |

## RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|-------------------------------------------|-------------|-------------|----------|------------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -4.23    | dBm/0.5MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB         | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 30          | -4.23    | dBm/0.5MHz | PASS    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3 PSD UNII-3

General verdict

PASS

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

### Test References

|                                   |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| TC Start                          | 02.08.2022 15:37:17                                       |
| Ambit Temp [°C]   Humidity [rel%] | 29.4   35                                                 |
| System Version                    | 3.3.0.1                                                   |
| Test Specification                | ISED RSS247 -                                             |
| Test Method                       |                                                           |
| TC Version                        | 0.0.1                                                     |
| My Description                    | ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3 |
| Add. Information                  |                                                           |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| 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]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5785 MHz

### RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 6.05     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5789.400 | MHz  | INFO    |

## Evaluation max. Duty Cycle

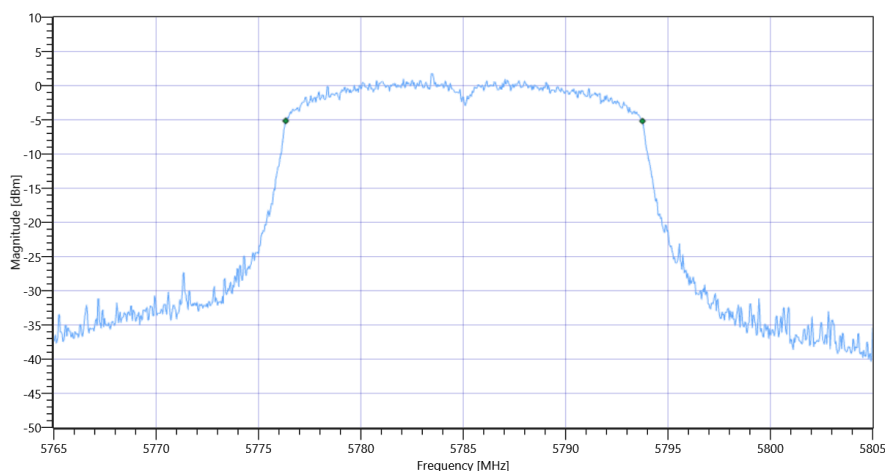
### Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

### RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 17.423    | MHz  | INFO    |
| T1 99%           | ---         | ---         | 5776.3287 | MHz  | INFO    |
| T2 99%           | ---         | ---         | 5793.7512 | MHz  | INFO    |



## Maximum Output Power

### READ SA SETTINGS:

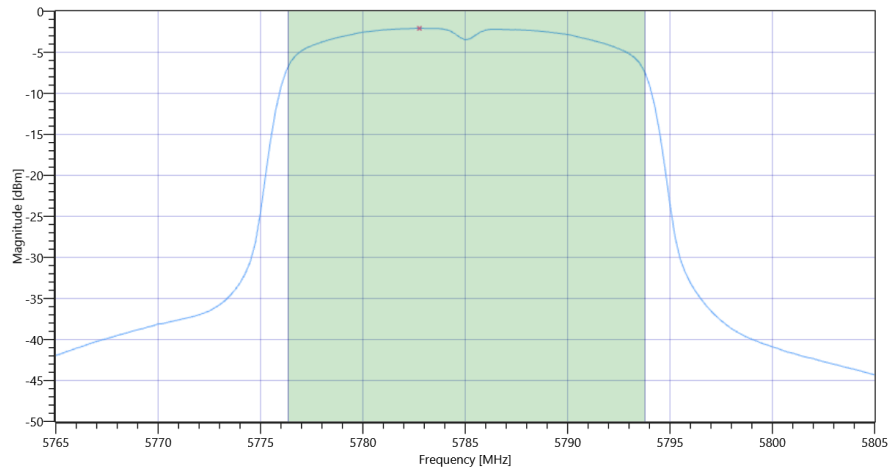
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.05   11.48   25    |
| Start [MHz]   Stop [MHz]                             | 5765.000   5805.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

### RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 9.13     | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 30          | 9.13     | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 23.41       | 9.13     | dBm  | not applicable |



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

## Power Spectral Density U-NII-3

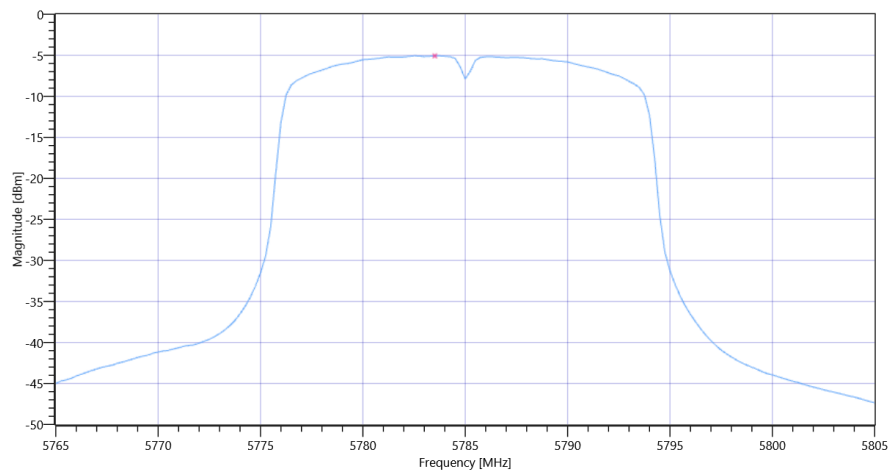
### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.05   11.48   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 | 53700   1   161   SWE |

## RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|-------------------------------------------|-------------|-------------|----------|------------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -5.07    | dBm/0.5MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB         | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 30          | -5.07    | dBm/0.5MHz | PASS    |





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

General verdict

PASS

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

### Test References

|                                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| TC Start                          | 02.08.2022 15:34:34                                             |
| Ambit Temp [°C]   Humidity [rel%] | 29.3   36                                                       |
| System Version                    | 3.3.0.1                                                         |
| Test Specification                | FCC 15.247 -                                                    |
| Test Method                       | KDB789033 D02, F., E.2.e.                                       |
| TC Version                        | 0.0.1                                                           |
| My Description                    | FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3 |
| Add. Information                  |                                                                 |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| 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]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5785 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 5.95     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5780.600 | MHz  | INFO    |

## Evaluation max. Duty Cycle

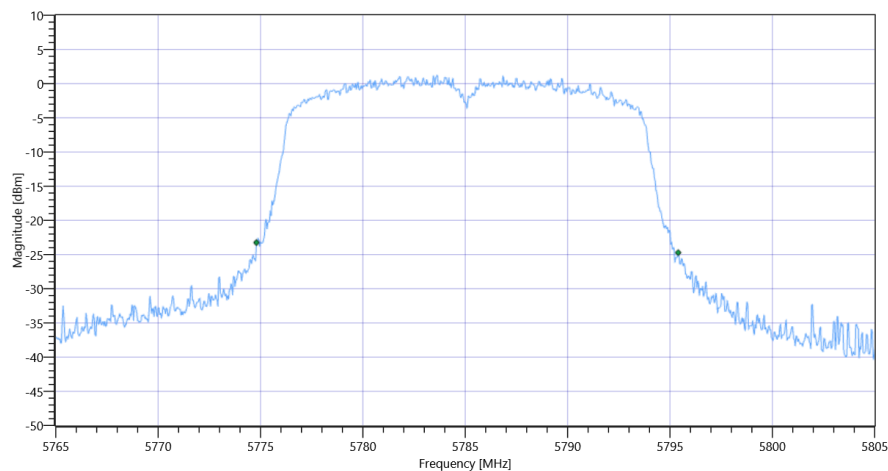
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB   | ---         | ---         | 20.6      | MHz  | INFO    |
| T1 26dB          | ---         | ---         | 5774.8000 | MHz  | INFO    |
| T2 26dB          | ---         | ---         | 5795.4000 | MHz  | INFO    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3\_BW

## Maximum Output Power

READ SA SETTINGS:

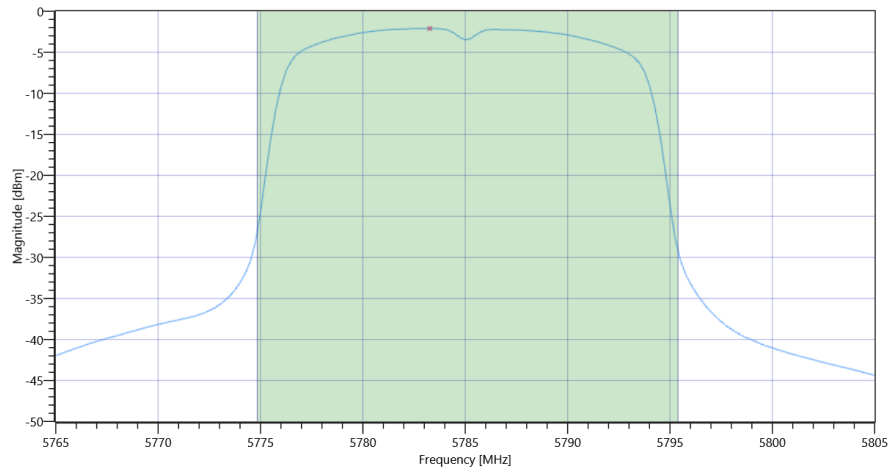
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 17.95   11.48   25    |
| Start [MHz]   Stop [MHz]                             | 5765.000   5805.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 9.18     | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 30          | 9.18     | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 24.14       | 9.18     | dBm  | not applicable |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3 Max OP and PSD

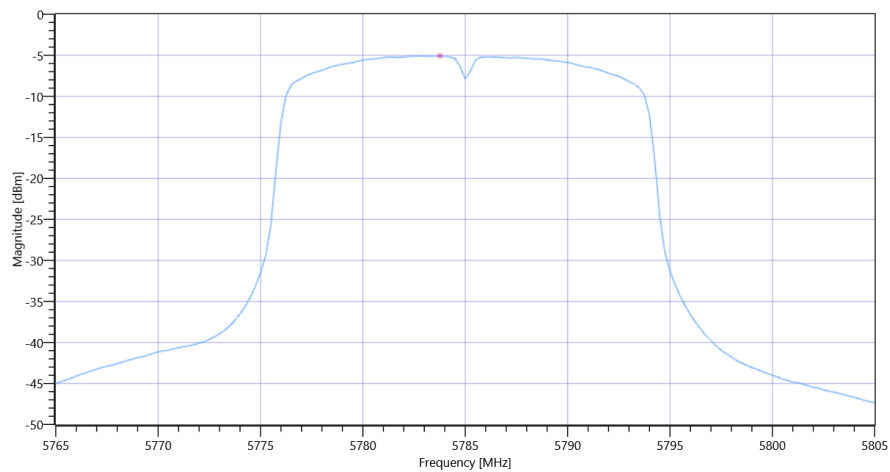
## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 17.95   11.48   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 | 53700   1   161   SWE |

## RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|-------------------------------------------|-------------|-------------|----------|------------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -5.07    | dBm/0.5MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB         | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 30          | -5.07    | dBm/0.5MHz | PASS    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3 PSD UNII-3

General verdict

PASS

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

### Test References

|                                   |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| TC Start                          | 02.08.2022 15:29:35                                       |
| Ambit Temp [°C]   Humidity [rel%] | 29.3   38                                                 |
| System Version                    | 3.3.0.1                                                   |
| Test Specification                | ISED RSS247 -                                             |
| Test Method                       |                                                           |
| TC Version                        | 0.0.1                                                     |
| My Description                    | ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3 |
| Add. Information                  |                                                           |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| 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]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5745 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 7.53     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5746.000 | MHz  | INFO    |

## Evaluation max. Duty Cycle

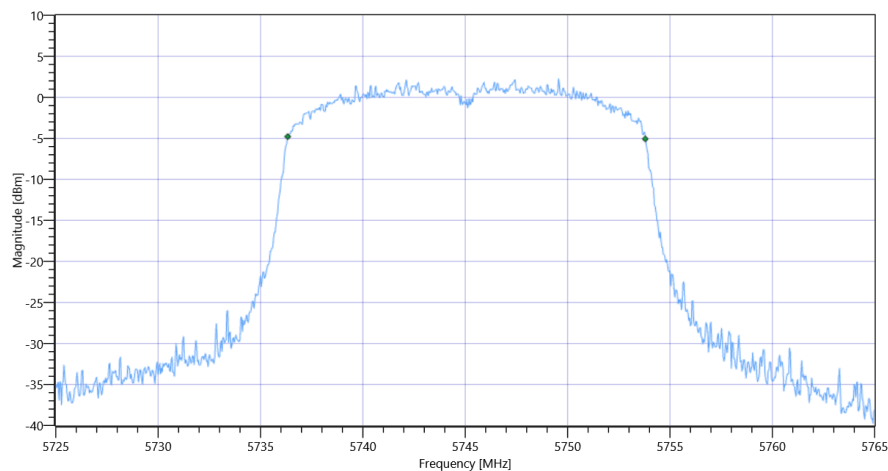
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 17.463    | MHz  | INFO    |
| T1 99%           | ---         | ---         | 5736.3287 | MHz  | INFO    |
| T2 99%           | ---         | ---         | 5753.7912 | MHz  | INFO    |



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

## Maximum Output Power

READ SA SETTINGS:

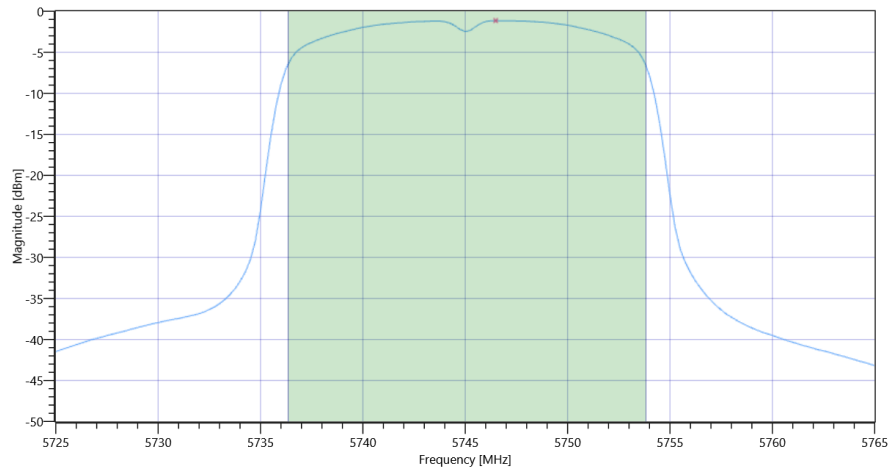
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.53   11.46   25    |
| Start [MHz]   Stop [MHz]                             | 5725.000   5765.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 10.04    | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 30          | 10.04    | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 23.42       | 10.04    | dBm  | not applicable |



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

## Power Spectral Density U-NII-3

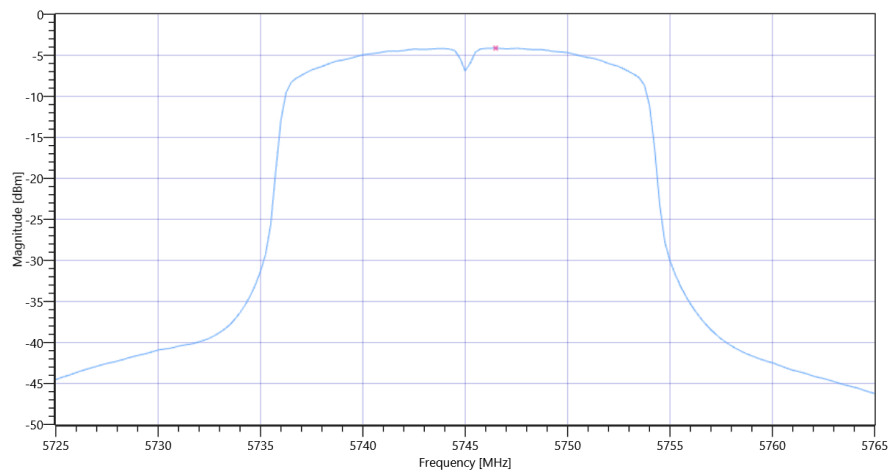
### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.53   11.46   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 | 53700   1   161   SWE |

## RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|-------------------------------------------|-------------|-------------|----------|------------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -4.13    | dBm/0.5MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB         | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 30          | -4.13    | dBm/0.5MHz | PASS    |





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

General verdict

PASS

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

### Test References

|                                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| TC Start                          | 02.08.2022 15:26:53                                             |
| Ambit Temp [°C]   Humidity [rel%] | 29.3   38                                                       |
| System Version                    | 3.3.0.1                                                         |
| Test Specification                | FCC 15.247 -                                                    |
| Test Method                       | KDB789033 D02, F., E.2.e.                                       |
| TC Version                        | 0.0.1                                                           |
| My Description                    | FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3 |
| Add. Information                  |                                                                 |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| 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]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5745 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 6.91     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5742.600 | MHz  | INFO    |

## Evaluation max. Duty Cycle

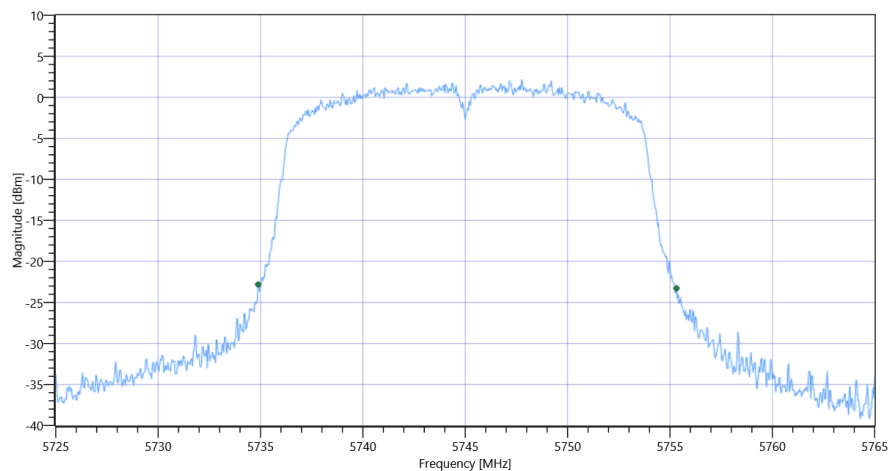
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB   | ---         | ---         | 20.44     | MHz  | INFO    |
| T1 26dB          | ---         | ---         | 5734.8800 | MHz  | INFO    |
| T2 26dB          | ---         | ---         | 5755.3200 | MHz  | INFO    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3\_BW

## Maximum Output Power

READ SA SETTINGS:

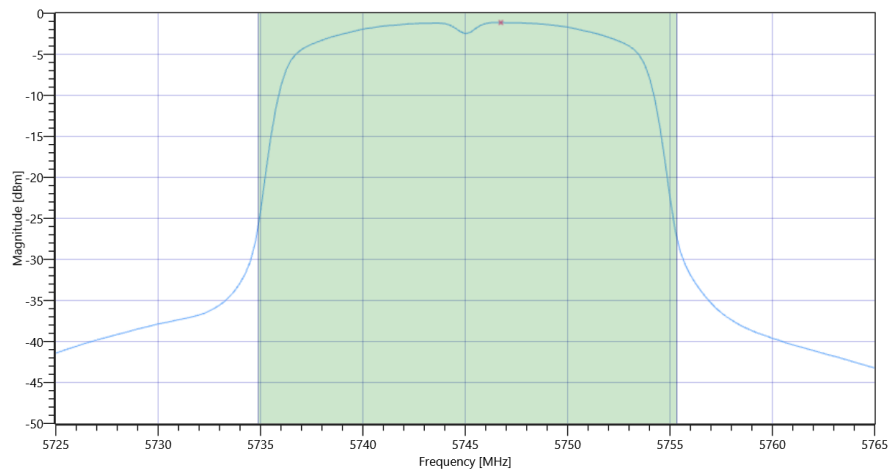
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.91   11.46   25    |
| Start [MHz]   Stop [MHz]                             | 5725.000   5765.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 10.12    | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 30          | 10.12    | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 24.1        | 10.12    | dBm  | not applicable |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3 Max OP and PSD

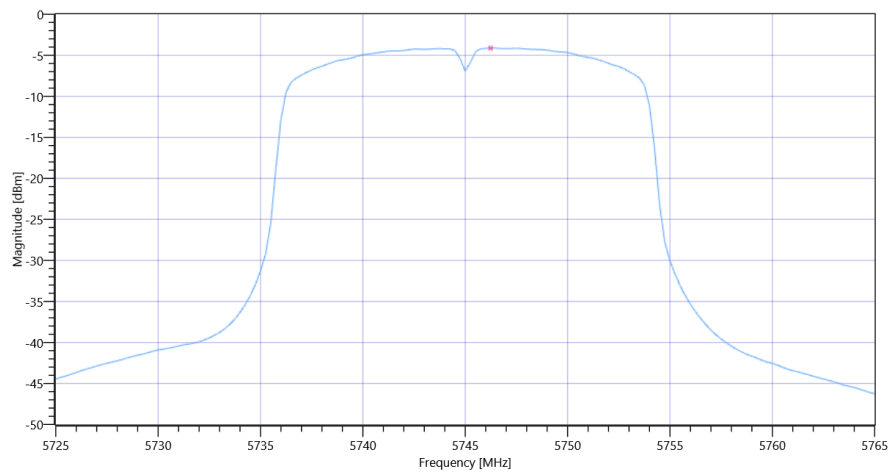
## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.91   11.46   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 | 53700   1   161   SWE |

## RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|-------------------------------------------|-------------|-------------|----------|------------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -4.13    | dBm/0.5MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB         | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 30          | -4.13    | dBm/0.5MHz | PASS    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3 PSD UNII-3

General verdict

PASS

## ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| TC Start                          | 02.08.2022 15:18:40                                        |
| Ambit Temp [°C]   Humidity [rel%] | 29.3   39                                                  |
| System Version                    | 3.3.0.1                                                    |
| Test Specification                | ISED RSS247 -                                              |
| Test Method                       |                                                            |
| TC Version                        | 0.0.1                                                      |
| My Description                    | ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C |
| Add. Information                  |                                                            |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5500                |
| Frequency mid to test                            | True   Freq [MHz] 5600                 |
| Frequency high to test                           | False   Freq [MHz] 5700                |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5600 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 5.61     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5599.000 | MHz  | INFO    |

## Evaluation max. Duty Cycle

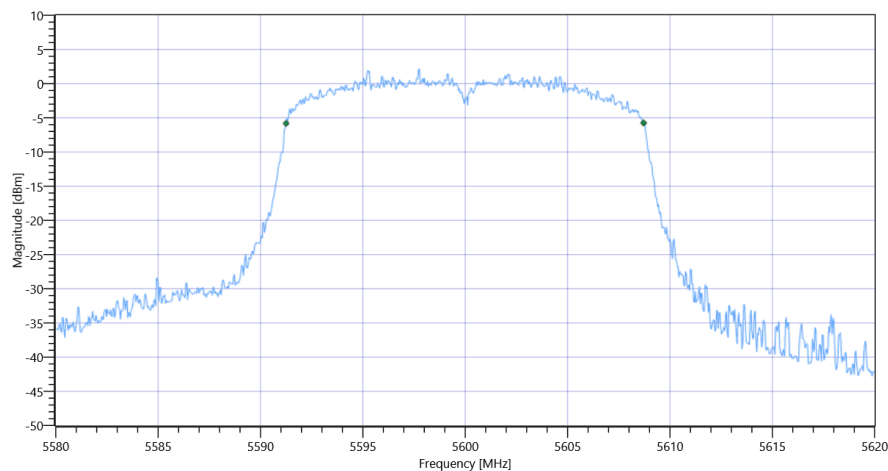
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 17.463    | MHz  | INFO    |
| T1 99%           | ---         | ---         | 5591.2488 | MHz  | INFO    |
| T2 99%           | ---         | ---         | 5608.7113 | MHz  | INFO    |



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C\_BW

## Maximum Output Power

READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 17.61   11.36   25    |
| Start [MHz]   Stop [MHz]                             | 5580.000   5620.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

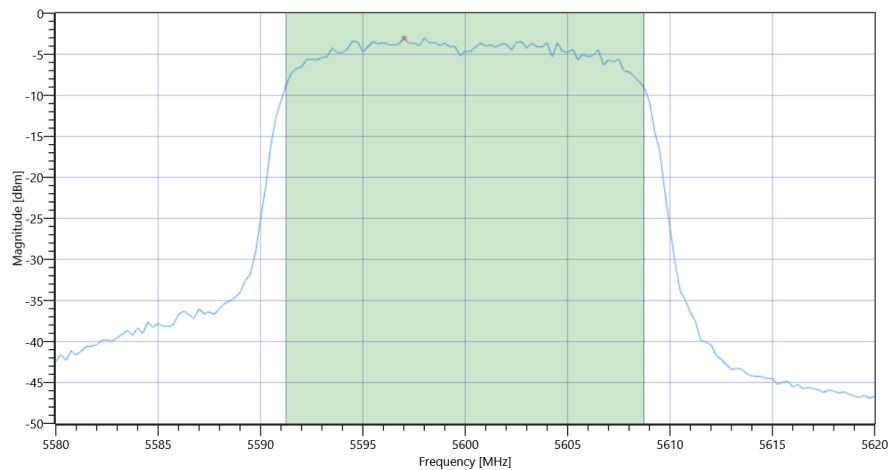
| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 7.61     | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                 | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|----------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power<br>DC corrected | ---         | 24          | 7.61     | dBm  | PASS    |

Limit by: 11 dBm + 10 log Bandwidth

|                                  |     |       |      |     |      |
|----------------------------------|-----|-------|------|-----|------|
| Max Output Power<br>DC corrected | --- | 23.42 | 7.61 | dBm | PASS |
|----------------------------------|-----|-------|------|-----|------|



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -3.04    | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | -3.04    | dBm/1MHz | PASS    |

General verdict

PASS



## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

|                                   |                                                                  |
|-----------------------------------|------------------------------------------------------------------|
| TC Start                          | 02.08.2022 15:17:00                                              |
| Ambit Temp [°C]   Humidity [rel%] | 29.3   39                                                        |
| System Version                    | 3.3.0.1                                                          |
| Test Specification                | FCC 15.247 -                                                     |
| Test Method                       | KDB789033 D02, F., E.2.e.                                        |
| TC Version                        | 0.0.1                                                            |
| My Description                    | FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C |
| Add. Information                  |                                                                  |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5500                |
| Frequency mid to test                            | True   Freq [MHz] 5600                 |
| Frequency high to test                           | False   Freq [MHz] 5700                |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5600 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 6.49     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5596.200 | MHz  | INFO    |

## Evaluation max. Duty Cycle

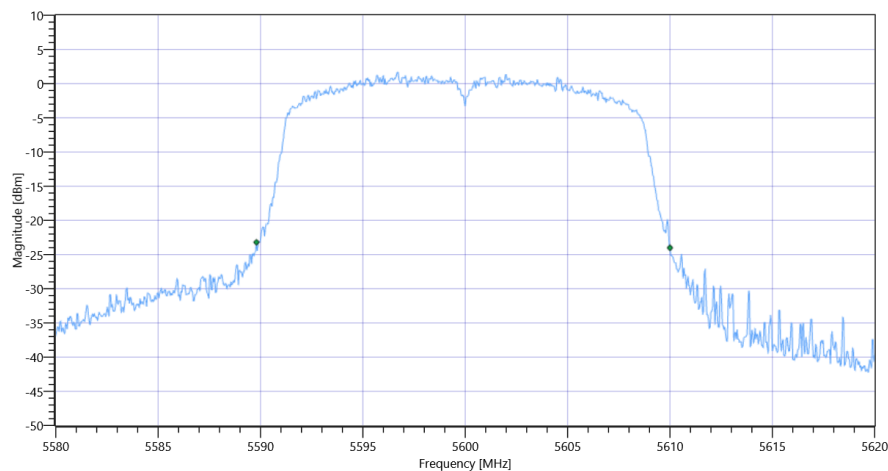
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB   | ---         | ---         | 20.2      | MHz  | INFO    |
| T1 26dB          | ---         | ---         | 5589.8000 | MHz  | INFO    |
| T2 26dB          | ---         | ---         | 5610.0000 | MHz  | INFO    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C\_BW

## Maximum Output Power

READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.49   11.36   25    |
| Start [MHz]   Stop [MHz]                             | 5580.000   5620.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

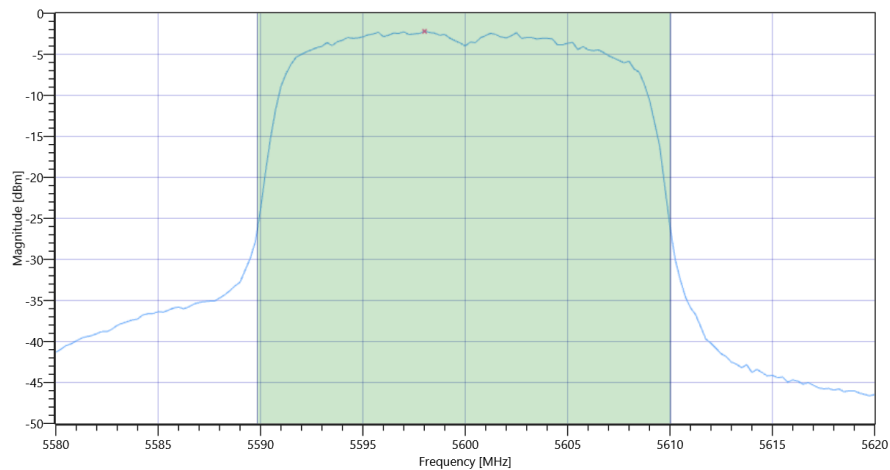
| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 8.71     | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                 | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|----------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power<br>DC corrected | ---         | 24          | 8.71     | dBm  | PASS    |

Limit by: 11 dBm + 10 log Bandwidth

|                                  |     |       |      |     |      |
|----------------------------------|-----|-------|------|-----|------|
| Max Output Power<br>DC corrected | --- | 24.05 | 8.71 | dBm | PASS |
|----------------------------------|-----|-------|------|-----|------|



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -2.19    | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | -2.19    | dBm/1MHz | PASS    |

General verdict

PASS

## ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| TC Start                          | 02.08.2022 15:03:04                                        |
| Ambit Temp [°C]   Humidity [rel%] | 29.2   39                                                  |
| System Version                    | 3.3.0.1                                                    |
| Test Specification                | ISED RSS247 -                                              |
| Test Method                       |                                                            |
| TC Version                        | 0.0.1                                                      |
| My Description                    | ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C |
| Add. Information                  |                                                            |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 5500                 |
| Frequency mid to test                            | False   Freq [MHz] 5600                |
| Frequency high to test                           | False   Freq [MHz] 5700                |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5500 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 5.87     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5502.600 | MHz  | INFO    |

## Evaluation max. Duty Cycle

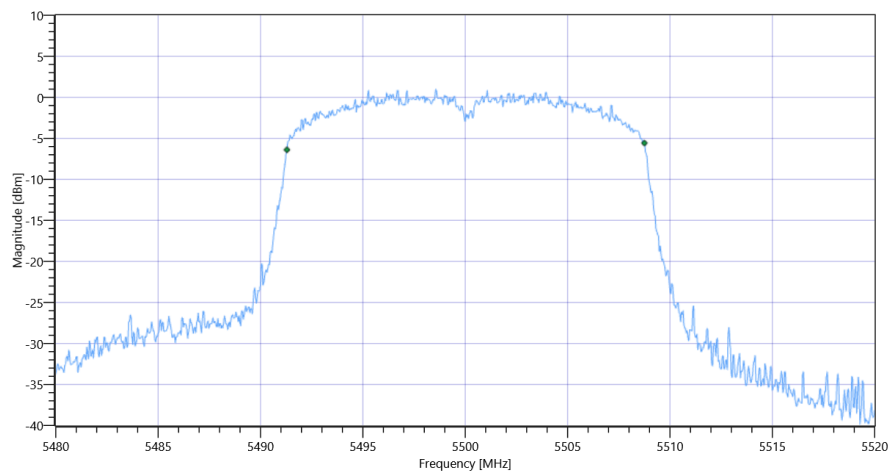
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 17.463    | MHz  | INFO    |
| T1 99%           | ---         | ---         | 5491.2887 | MHz  | INFO    |
| T2 99%           | ---         | ---         | 5508.7512 | MHz  | INFO    |



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C\_BW

## Maximum Output Power

READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 17.87   11.34   25    |
| Start [MHz]   Stop [MHz]                             | 5480.000   5520.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

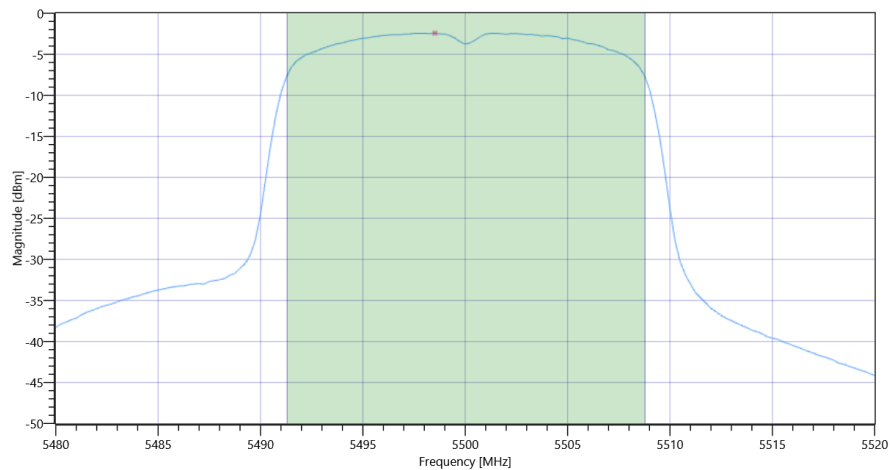
| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 8.78     | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                 | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|----------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power<br>DC corrected | ---         | 24          | 8.78     | dBm  | PASS    |

Limit by: 11 dBm + 10 log Bandwidth

|                                  |     |       |      |     |      |
|----------------------------------|-----|-------|------|-----|------|
| Max Output Power<br>DC corrected | --- | 23.42 | 8.78 | dBm | PASS |
|----------------------------------|-----|-------|------|-----|------|



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -2.42    | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | -2.42    | dBm/1MHz | PASS    |

General verdict

PASS

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

### Test References

|                                   |                                                                  |
|-----------------------------------|------------------------------------------------------------------|
| TC Start                          | 02.08.2022 15:01:24                                              |
| Ambit Temp [°C]   Humidity [rel%] | 29.1   39                                                        |
| System Version                    | 3.3.0.1                                                          |
| Test Specification                | FCC 15.247 -                                                     |
| Test Method                       | KDB789033 D02, F., E.2.e.                                        |
| TC Version                        | 0.0.1                                                            |
| My Description                    | FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C |
| Add. Information                  |                                                                  |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 5500                 |
| Frequency mid to test                            | False   Freq [MHz] 5600                |
| Frequency high to test                           | False   Freq [MHz] 5700                |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5500 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 5.74     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5498.800 | MHz  | INFO    |

## Evaluation max. Duty Cycle

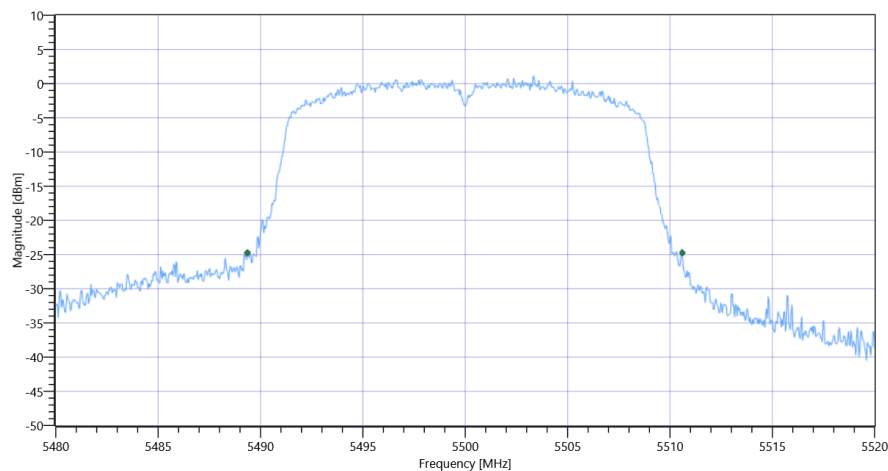
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB   | ---         | ---         | 21.24     | MHz  | INFO    |
| T1 26dB          | ---         | ---         | 5489.3600 | MHz  | INFO    |
| T2 26dB          | ---         | ---         | 5510.6000 | MHz  | INFO    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C\_BW

## Maximum Output Power

READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 17.74   11.34   25    |
| Start [MHz]   Stop [MHz]                             | 5480.000   5520.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 8.91     | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

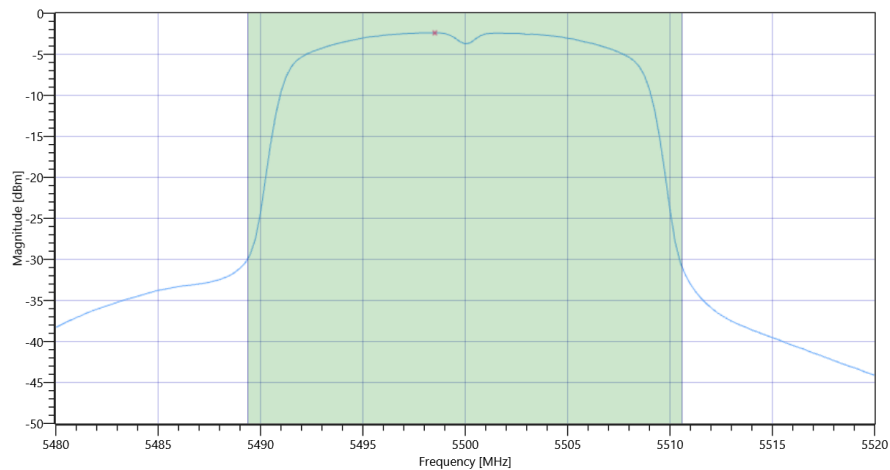


## RESULT

| Test Description                 | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|----------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power<br>DC corrected | ---         | 24          | 8.91     | dBm  | PASS    |

Limit by: 11 dBm + 10 log Bandwidth

|                                  |     |       |      |     |      |
|----------------------------------|-----|-------|------|-----|------|
| Max Output Power<br>DC corrected | --- | 24.27 | 8.91 | dBm | PASS |
|----------------------------------|-----|-------|------|-----|------|



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -2.4     | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | -2.4     | dBm/1MHz | PASS    |

General verdict

PASS

## ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A

### Test References

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| TC Start                          | 02.08.2022 14:57:19                                        |
| Ambit Temp [°C]   Humidity [rel%] | 29.0   39                                                  |
| System Version                    | 3.3.0.1                                                    |
| Test Specification                | ISED RSS247 -                                              |
| Test Method                       |                                                            |
| TC Version                        | 0.0.1                                                      |
| My Description                    | ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2A |
| Add. Information                  |                                                            |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5260                |
| Frequency mid to test                            | False   Freq [MHz] 5280                |
| Frequency high to test                           | True   Freq [MHz] 5320                 |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5320 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 8.95     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5317.200 | MHz  | INFO    |

## Evaluation max. Duty Cycle

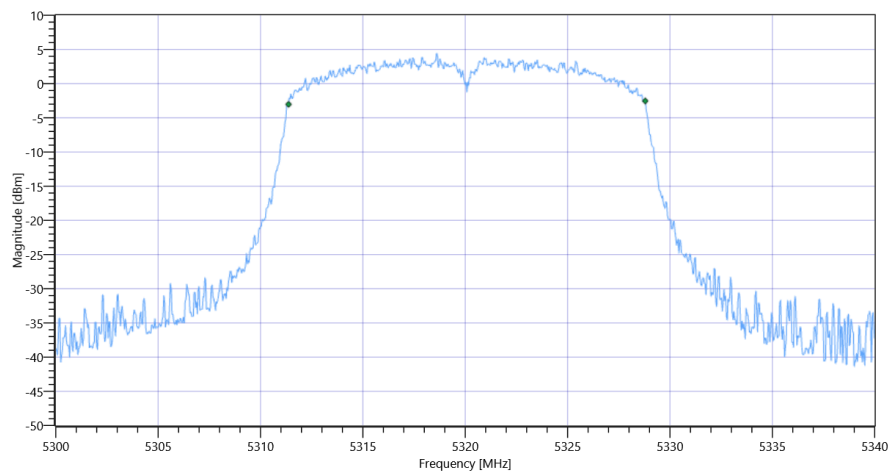
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 17.423    | MHz  | INFO    |
| T1 99%           | ---         | ---         | 5311.3686 | MHz  | INFO    |
| T2 99%           | ---         | ---         | 5328.7912 | MHz  | INFO    |



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A\_BW

## Maximum Output Power

READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.95   11.48   25    |
| Start [MHz]   Stop [MHz]                             | 5300.000   5340.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

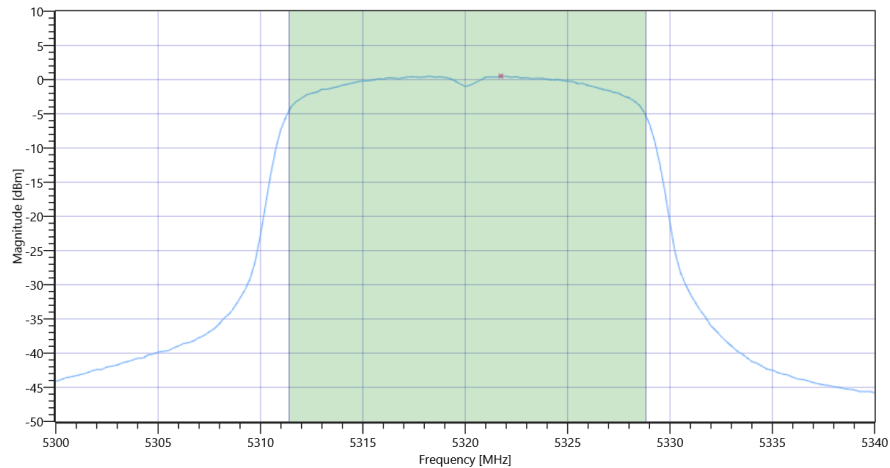
| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 11.6     | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                 | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|----------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power<br>DC corrected | ---         | 24          | 11.6     | dBm  | PASS    |

Limit by: 11 dBm + 10 log Bandwidth

|                                  |     |       |      |     |      |
|----------------------------------|-----|-------|------|-----|------|
| Max Output Power<br>DC corrected | --- | 23.41 | 11.6 | dBm | PASS |
|----------------------------------|-----|-------|------|-----|------|



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | 0.51     | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | 0.51     | dBm/1MHz | PASS    |

General verdict

PASS

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A

### Test References

|                                   |                                                                  |
|-----------------------------------|------------------------------------------------------------------|
| TC Start                          | 02.08.2022 14:55:39                                              |
| Ambit Temp [°C]   Humidity [rel%] | 29.0   39                                                        |
| System Version                    | 3.3.0.1                                                          |
| Test Specification                | FCC 15.247 -                                                     |
| Test Method                       | KDB789033 D02, F., E.2.e.                                        |
| TC Version                        | 0.0.1                                                            |
| My Description                    | FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2A |

### Add. Information

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5260                |
| Frequency mid to test                            | False   Freq [MHz] 5280                |
| Frequency high to test                           | True   Freq [MHz] 5320                 |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5320 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 8.44     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5319.400 | MHz  | INFO    |

## Evaluation max. Duty Cycle

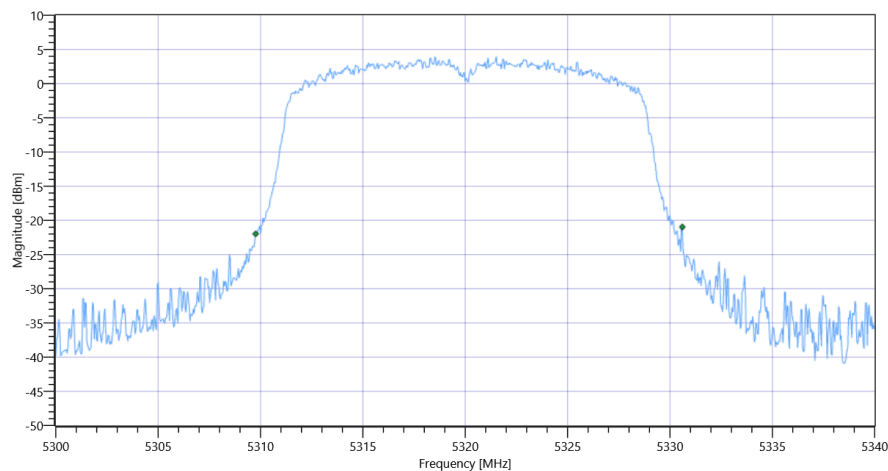
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB   | ---         | ---         | 20.84     | MHz  | INFO    |
| T1 26dB          | ---         | ---         | 5309.7600 | MHz  | INFO    |
| T2 26dB          | ---         | ---         | 5330.6000 | MHz  | INFO    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A\_BW

## Maximum Output Power

READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.44   11.48   25    |
| Start [MHz]   Stop [MHz]                             | 5300.000   5340.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

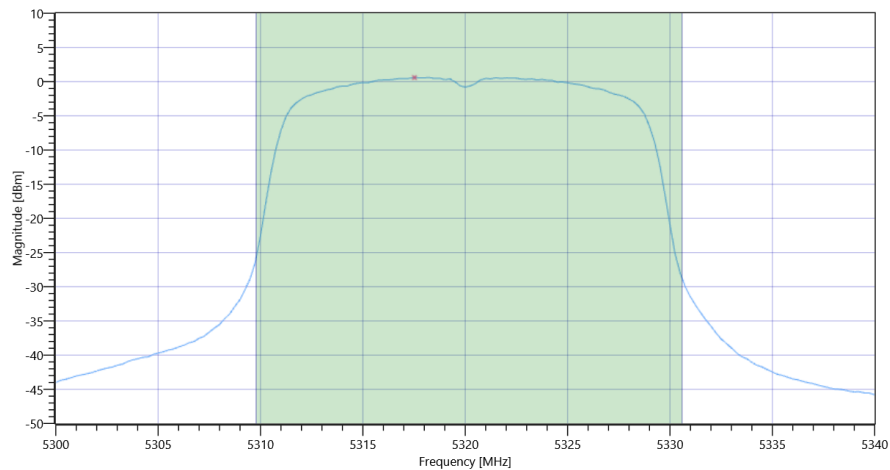
| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 11.8     | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                 | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|----------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power<br>DC corrected | ---         | 24          | 11.8     | dBm  | PASS    |

Limit by: 11 dBm + 10 log Bandwidth

|                                  |     |       |      |     |      |
|----------------------------------|-----|-------|------|-----|------|
| Max Output Power<br>DC corrected | --- | 24.19 | 11.8 | dBm | PASS |
|----------------------------------|-----|-------|------|-----|------|



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | 0.6      | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | 0.6      | dBm/1MHz | PASS    |

General verdict

PASS

## ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A

| Test References                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| TC Start                          | 02.08.2022 14:51:57                                        |
| Ambit Temp [°C]   Humidity [rel%] | 28.9   39                                                  |
| System Version                    | 3.3.0.1                                                    |
| Test Specification                | ISED RSS247 -                                              |
| Test Method                       |                                                            |
| TC Version                        | 0.0.1                                                      |
| My Description                    | ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2A |
| Add. Information                  |                                                            |

| EUT Common Settings WLAN5Gx |        |
|-----------------------------|--------|
| Number of Antenna Ports     | 1      |
| User Interaction            | No     |
| Device Class UNII_1         | Client |

| Test Parameter                                   |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5260                |
| Frequency mid to test                            | True   Freq [MHz] 5280                 |
| Frequency high to test                           | False   Freq [MHz] 5320                |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

| Test Equipment                                                |  |
|---------------------------------------------------------------|--|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |  |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |  |



## Test at TX 5280 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 9.86     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5276.600 | MHz  | INFO    |

## Evaluation max. Duty Cycle

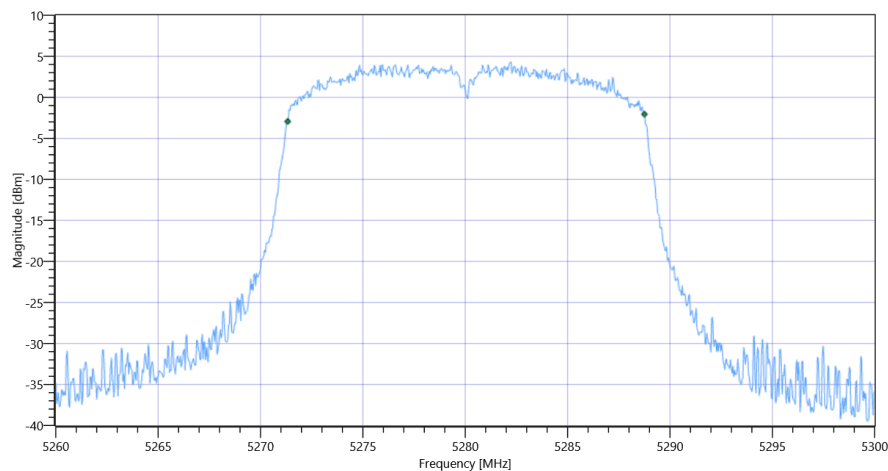
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 17.423    | MHz  | INFO    |
| T1 99%           | ---         | ---         | 5271.3287 | MHz  | INFO    |
| T2 99%           | ---         | ---         | 5288.7512 | MHz  | INFO    |



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A\_BW

## Maximum Output Power

READ SA SETTINGS:

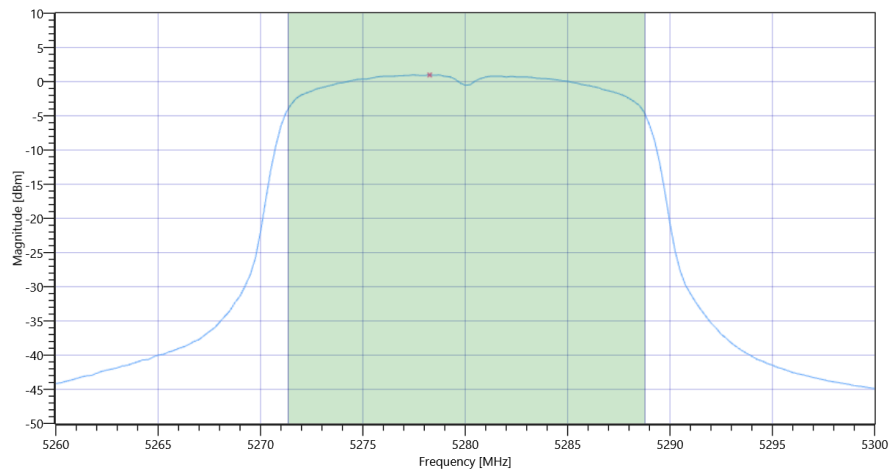
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 21.86   11.53   25    |
| Start [MHz]   Stop [MHz]                             | 5260.000   5300.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 12.07    | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power<br>DC corrected    | ---         | 24          | 12.07    | dBm  | PASS    |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |         |
| Max Output Power<br>DC corrected    | ---         | 23.41       | 12.07    | dBm  | PASS    |



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | 0.97     | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | 0.97     | dBm/1MHz | PASS    |

General verdict

PASS

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A

### Test References

|                                   |                                                                  |
|-----------------------------------|------------------------------------------------------------------|
| TC Start                          | 02.08.2022 14:50:16                                              |
| Ambit Temp [°C]   Humidity [rel%] | 28.9   39                                                        |
| System Version                    | 3.3.0.1                                                          |
| Test Specification                | FCC 15.247 -                                                     |
| Test Method                       | KDB789033 D02, F., E.2.e.                                        |
| TC Version                        | 0.0.1                                                            |
| My Description                    | FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2A |
| Add. Information                  |                                                                  |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5260                |
| Frequency mid to test                            | True   Freq [MHz] 5280                 |
| Frequency high to test                           | False   Freq [MHz] 5320                |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5280 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 8.93     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5276.400 | MHz  | INFO    |

## Evaluation max. Duty Cycle

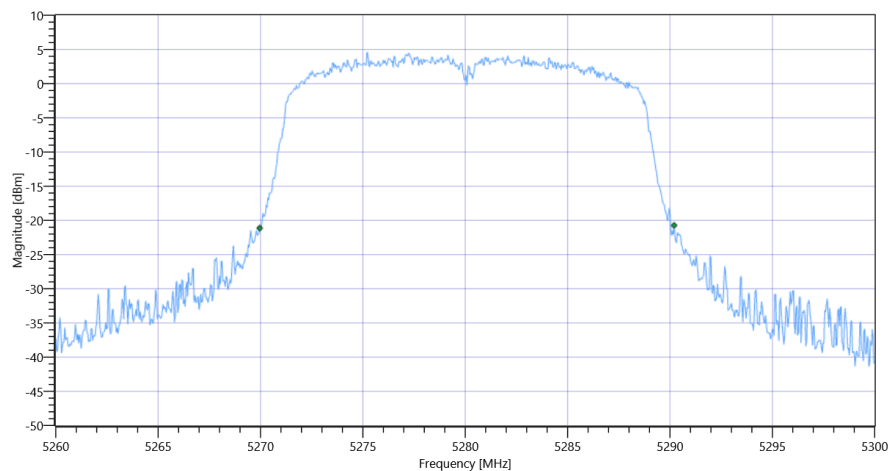
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB   | ---         | ---         | 20.24     | MHz  | INFO    |
| T1 26dB          | ---         | ---         | 5269.9600 | MHz  | INFO    |
| T2 26dB          | ---         | ---         | 5290.2000 | MHz  | INFO    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A\_BW

## Maximum Output Power

READ SA SETTINGS:

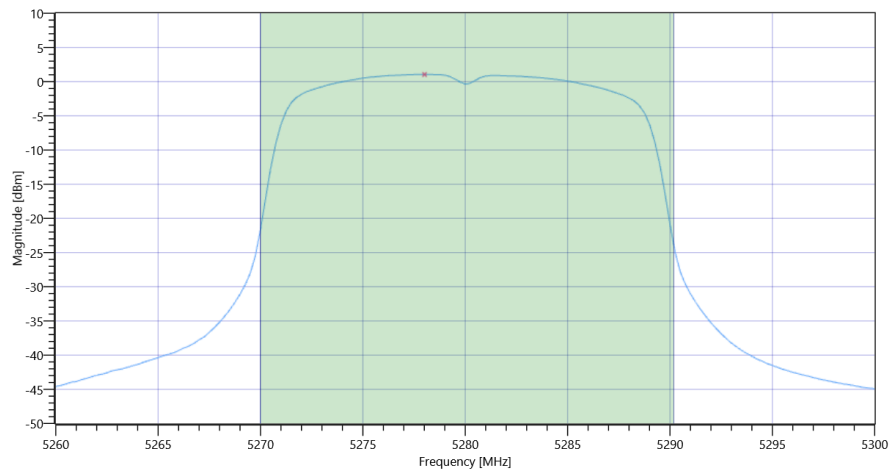
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.93   11.53   25    |
| Start [MHz]   Stop [MHz]                             | 5260.000   5300.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 12.24    | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power<br>DC corrected    | ---         | 24          | 12.24    | dBm  | PASS    |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |         |
| Max Output Power<br>DC corrected    | ---         | 24.06       | 12.24    | dBm  | PASS    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | 1.05     | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | 1.05     | dBm/1MHz | PASS    |

General verdict

PASS

## ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A

### Test References

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| TC Start                          | 02.08.2022 14:44:44                                        |
| Ambit Temp [°C]   Humidity [rel%] | 28.9   39                                                  |
| System Version                    | 3.3.0.1                                                    |
| Test Specification                | ISED RSS247 -                                              |
| Test Method                       |                                                            |
| TC Version                        | 0.0.1                                                      |
| My Description                    | ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2A |
| Add. Information                  |                                                            |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 5260                 |
| Frequency mid to test                            | False   Freq [MHz] 5280                |
| Frequency high to test                           | False   Freq [MHz] 5320                |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5260 MHz

### RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 8.17     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5261.000 | MHz  | INFO    |

## Evaluation max. Duty Cycle

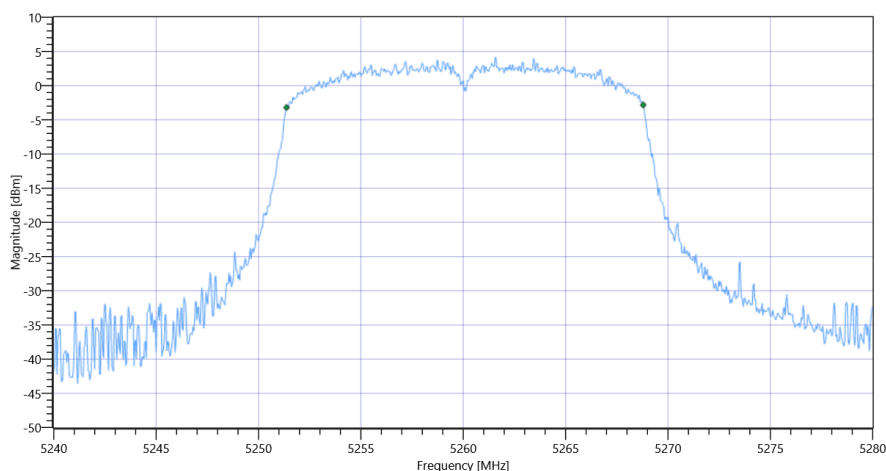
### Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

### RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 17.423    | MHz  | INFO    |
| T1 99%           | ---         | ---         | 5251.3686 | MHz  | INFO    |
| T2 99%           | ---         | ---         | 5268.7912 | MHz  | INFO    |



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A\_BW

## Maximum Output Power

### READ SA SETTINGS:

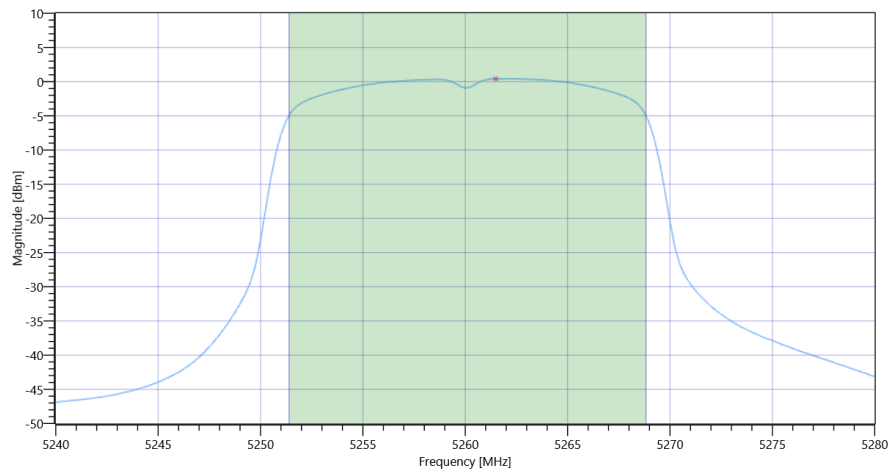
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.17   11.53   25    |
| Start [MHz]   Stop [MHz]                             | 5240.000   5280.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

### RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 11.55    | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power<br>DC corrected    | ---         | 24          | 11.55    | dBm  | PASS    |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |         |
| Max Output Power<br>DC corrected    | ---         | 23.41       | 11.55    | dBm  | PASS    |



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | 0.41     | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | 0.41     | dBm/1MHz | PASS    |

General verdict

PASS



## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A

### Test References

|                                   |                                                                  |
|-----------------------------------|------------------------------------------------------------------|
| TC Start                          | 02.08.2022 14:43:04                                              |
| Ambit Temp [°C]   Humidity [rel%] | 28.9   40                                                        |
| System Version                    | 3.3.0.1                                                          |
| Test Specification                | FCC 15.247 -                                                     |
| Test Method                       | KDB789033 D02, F., E.2.e.                                        |
| TC Version                        | 0.0.1                                                            |
| My Description                    | FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2A |
| Add. Information                  |                                                                  |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 5260                 |
| Frequency mid to test                            | False   Freq [MHz] 5280                |
| Frequency high to test                           | False   Freq [MHz] 5320                |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5260 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 8.87     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5262.600 | MHz  | INFO    |

## Evaluation max. Duty Cycle

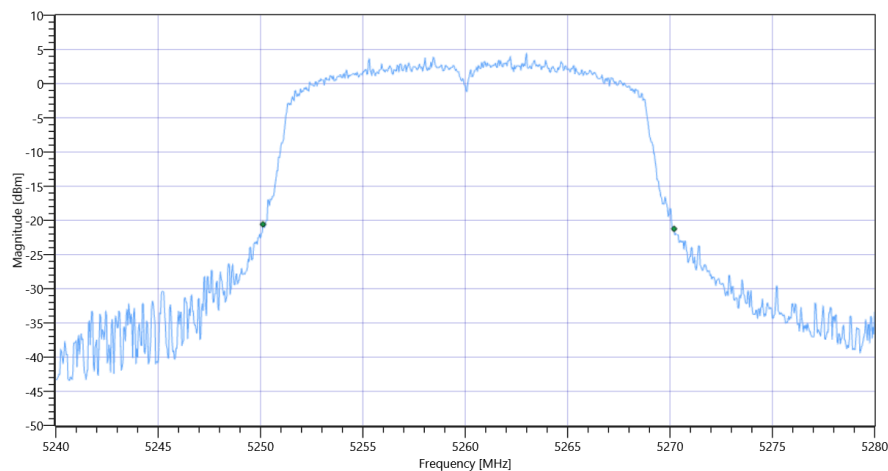
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB   | ---         | ---         | 20.08     | MHz  | INFO    |
| T1 26dB          | ---         | ---         | 5250.1200 | MHz  | INFO    |
| T2 26dB          | ---         | ---         | 5270.2000 | MHz  | INFO    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A\_BW

## Maximum Output Power

READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.87   11.53   25    |
| Start [MHz]   Stop [MHz]                             | 5240.000   5280.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

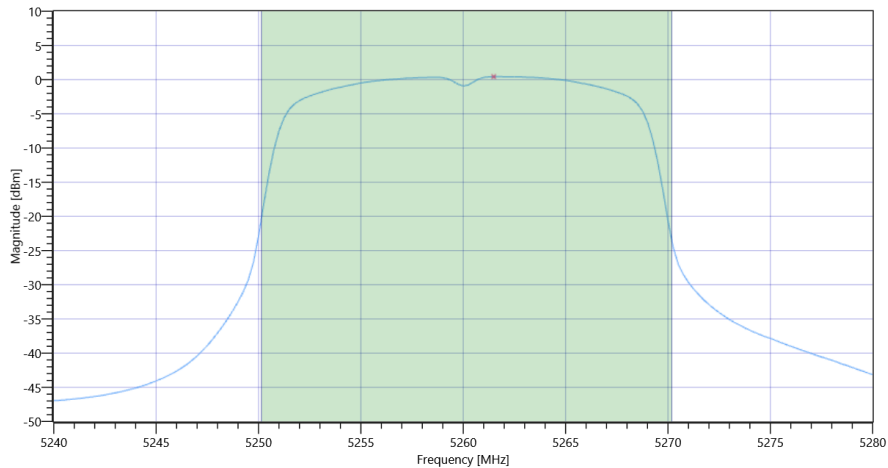
| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 11.64    | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                 | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|----------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power<br>DC corrected | ---         | 24          | 11.64    | dBm  | PASS    |

Limit by: 11 dBm + 10 log Bandwidth

|                                  |     |       |       |     |      |
|----------------------------------|-----|-------|-------|-----|------|
| Max Output Power<br>DC corrected | --- | 24.03 | 11.64 | dBm | PASS |
|----------------------------------|-----|-------|-------|-----|------|



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | 0.43     | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | 0.43     | dBm/1MHz | PASS    |

General verdict

PASS

## ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1

| Test References                   |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| TC Start                          | 02.08.2022 14:39:36                                       |
| Ambit Temp [°C]   Humidity [rel%] | 28.8   39                                                 |
| System Version                    | 3.3.0.1                                                   |
| Test Specification                | ISED RSS247 -                                             |
| Test Method                       |                                                           |
| TC Version                        | 0.0.1                                                     |
| My Description                    | ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1 |
| Add. Information                  |                                                           |

| EUT Common Settings WLAN5Gx |        |
|-----------------------------|--------|
| Number of Antenna Ports     | 1      |
| User Interaction            | No     |
| Device Class UNII_1         | Client |

| Test Parameter                                   |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5180                |
| Frequency mid to test                            | False   Freq [MHz] 5200                |
| Frequency high to test                           | True   Freq [MHz] 5240                 |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

| Test Equipment                                                |  |
|---------------------------------------------------------------|--|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |  |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |  |

## Test at TX 5240 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 7.46     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5242.400 | MHz  | INFO    |

## Evaluation max. Duty Cycle

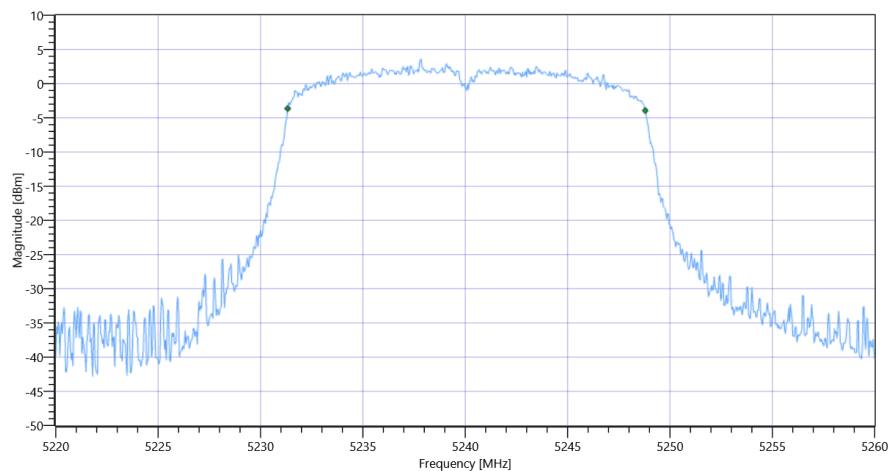
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 17.463    | MHz  | INFO    |
| T1 99%           | ---         | ---         | 5231.3287 | MHz  | INFO    |
| T2 99%           | ---         | ---         | 5248.7912 | MHz  | INFO    |



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1\_BW

## Maximum Output Power

READ SA SETTINGS:

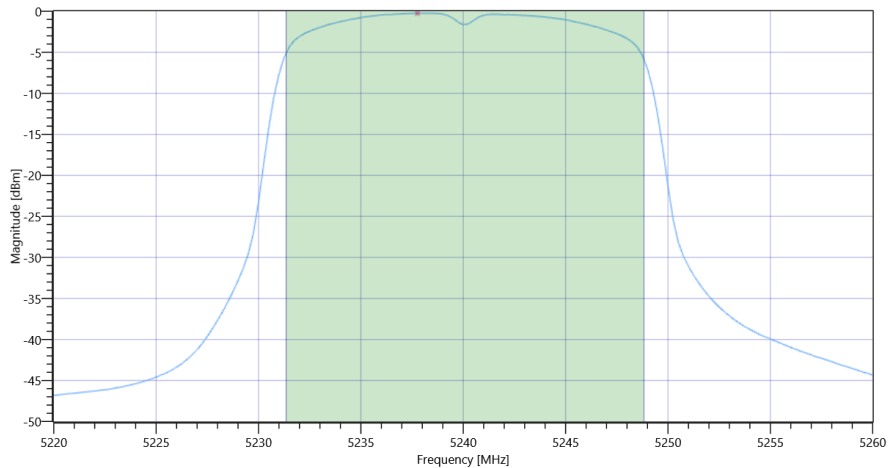
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.46   11.52   25    |
| Start [MHz]   Stop [MHz]                             | 5220.000   5260.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 10.95    | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 24          | 10.95    | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 23.42       | 10.95    | dBm  | not applicable |



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1 Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -0.25    | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | -0.25    | dBm/1MHz | PASS    |

General verdict

PASS

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1

### Test References

|                                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| TC Start                          | 02.08.2022 14:37:56                                             |
| Ambit Temp [°C]   Humidity [rel%] | 28.8   40                                                       |
| System Version                    | 3.3.0.1                                                         |
| Test Specification                | FCC 15.247 -                                                    |
| Test Method                       | KDB789033 D02, F., E.2.e.                                       |
| TC Version                        | 0.0.1                                                           |
| My Description                    | FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1 |
| Add. Information                  |                                                                 |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5180                |
| Frequency mid to test                            | False   Freq [MHz] 5200                |
| Frequency high to test                           | True   Freq [MHz] 5240                 |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5240 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 7.74     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5237.800 | MHz  | INFO    |

## Evaluation max. Duty Cycle

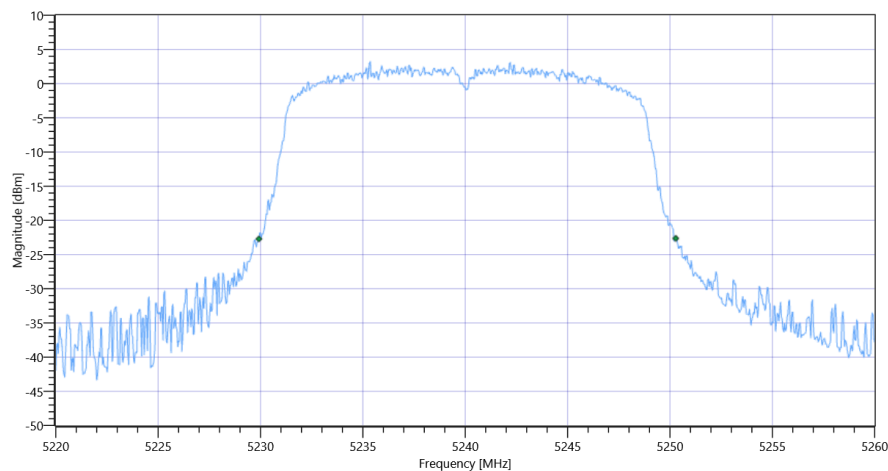
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB   | ---         | ---         | 20.36     | MHz  | INFO    |
| T1 26dB          | ---         | ---         | 5229.9200 | MHz  | INFO    |
| T2 26dB          | ---         | ---         | 5250.2800 | MHz  | INFO    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1\_BW

## Maximum Output Power

READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.74   11.52   25    |
| Start [MHz]   Stop [MHz]                             | 5220.000   5260.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

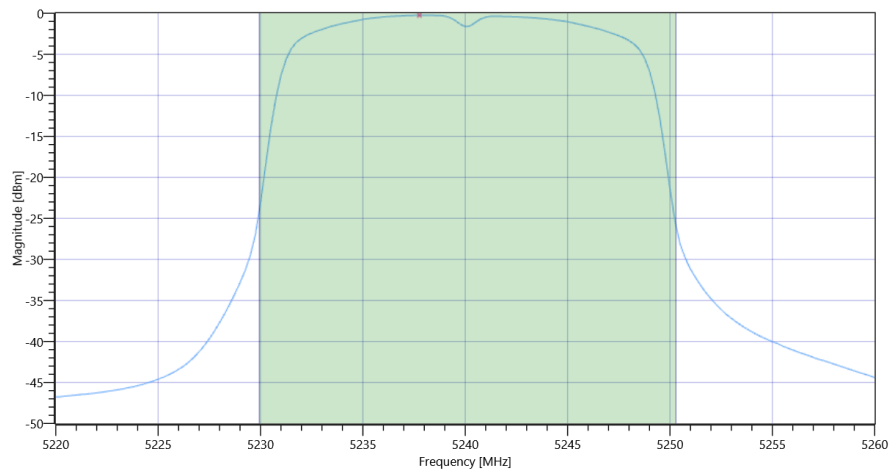
RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 11.03    | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |



## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 24          | 11.03    | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 24.09       | 11.03    | dBm  | not applicable |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1 Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -0.24    | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | -0.24    | dBm/1MHz | PASS    |

General verdict

PASS

## ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1

### Test References

|                                   |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| TC Start                          | 02.08.2022 14:22:52                                       |
| Ambit Temp [°C]   Humidity [rel%] | 28.8   40                                                 |
| System Version                    | 3.3.0.1                                                   |
| Test Specification                | ISED RSS247 -                                             |
| Test Method                       |                                                           |
| TC Version                        | 0.0.1                                                     |
| My Description                    | ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1 |
| Add. Information                  |                                                           |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5180                |
| Frequency mid to test                            | True   Freq [MHz] 5200                 |
| Frequency high to test                           | False   Freq [MHz] 5240                |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5200 MHz

### RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 7.60     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5197.800 | MHz  | INFO    |

## Evaluation max. Duty Cycle

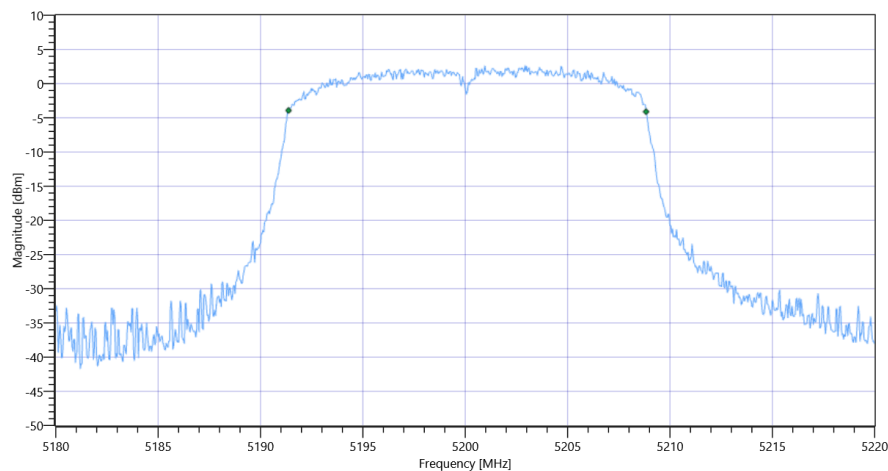
### Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

### RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 17.463    | MHz  | INFO    |
| T1 99%           | ---         | ---         | 5191.3686 | MHz  | INFO    |
| T2 99%           | ---         | ---         | 5208.8312 | MHz  | INFO    |



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1\_BW

## Maximum Output Power

### READ SA SETTINGS:

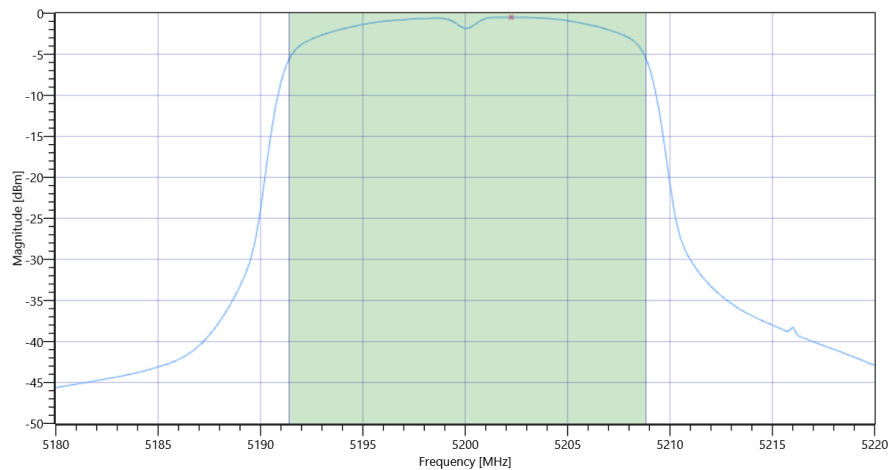
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.60   11.47   25    |
| Start [MHz]   Stop [MHz]                             | 5180.000   5220.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

### RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 10.73    | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 24          | 10.73    | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 23.42       | 10.73    | dBm  | not applicable |



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1 Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -0.49    | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | -0.49    | dBm/1MHz | PASS    |

General verdict

PASS

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1

### Test References

|                                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| TC Start                          | 02.08.2022 14:21:12                                             |
| Ambit Temp [°C]   Humidity [rel%] | 28.8   40                                                       |
| System Version                    | 3.3.0.1                                                         |
| Test Specification                | FCC 15.247 -                                                    |
| Test Method                       | KDB789033 D02, F., E.2.e.                                       |
| TC Version                        | 0.0.1                                                           |
| My Description                    | FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1 |
| Add. Information                  |                                                                 |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5180                |
| Frequency mid to test                            | True   Freq [MHz] 5200                 |
| Frequency high to test                           | False   Freq [MHz] 5240                |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5200 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 8.45     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5198.800 | MHz  | INFO    |

## Evaluation max. Duty Cycle

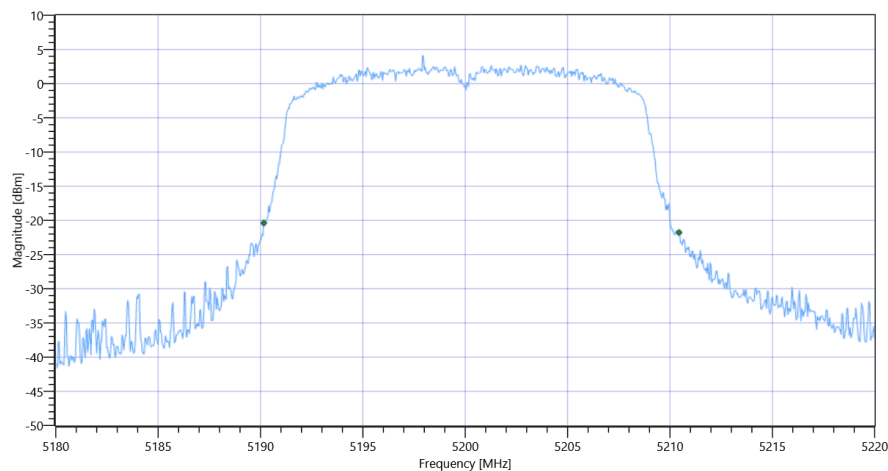
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB   | ---         | ---         | 20.28     | MHz  | INFO    |
| T1 26dB          | ---         | ---         | 5190.1600 | MHz  | INFO    |
| T2 26dB          | ---         | ---         | 5210.4400 | MHz  | INFO    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1\_BW

## Maximum Output Power

READ SA SETTINGS:

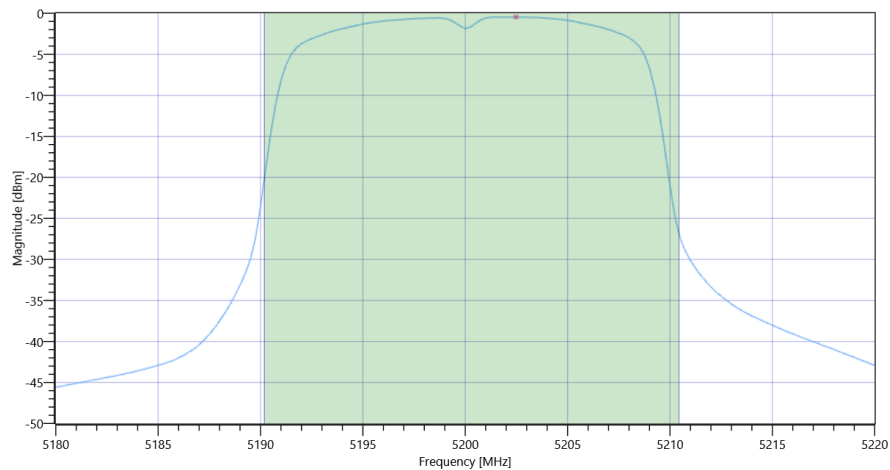
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.45   11.47   25    |
| Start [MHz]   Stop [MHz]                             | 5180.000   5220.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 10.84    | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 24          | 10.84    | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 24.07       | 10.84    | dBm  | not applicable |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1 Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -0.45    | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | -0.45    | dBm/1MHz | PASS    |

General verdict

PASS

## ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1

### Test References

|                                   |                                                           |
|-----------------------------------|-----------------------------------------------------------|
| TC Start                          | 02.08.2022 14:16:26                                       |
| Ambit Temp [°C]   Humidity [rel%] | 28.8   40                                                 |
| System Version                    | 3.3.0.1                                                   |
| Test Specification                | ISED RSS247 -                                             |
| Test Method                       |                                                           |
| TC Version                        | 0.0.1                                                     |
| My Description                    | ISED Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1 |
| Add. Information                  |                                                           |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 5180                 |
| Frequency mid to test                            | False   Freq [MHz] 5200                |
| Frequency high to test                           | False   Freq [MHz] 5240                |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |



## Test at TX 5180 MHz

### RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 7.94     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5178.200 | MHz  | INFO    |

## Evaluation max. Duty Cycle

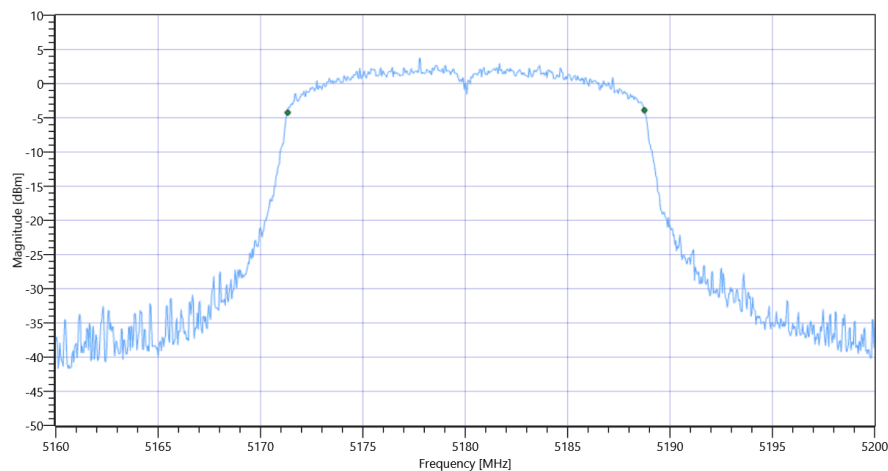
### Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

### RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 17.423    | MHz  | INFO    |
| T1 99%           | ---         | ---         | 5171.3287 | MHz  | INFO    |
| T2 99%           | ---         | ---         | 5188.7512 | MHz  | INFO    |



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1\_BW

## Maximum Output Power

### READ SA SETTINGS:

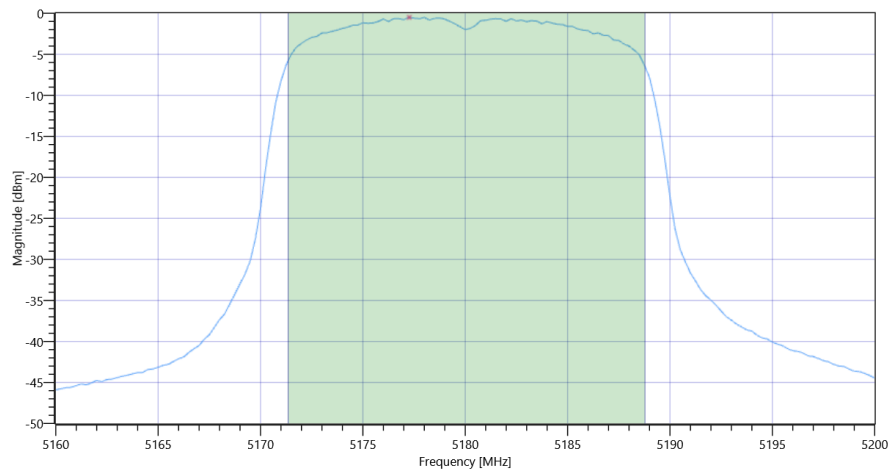
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.94   11.43   25    |
| Start [MHz]   Stop [MHz]                             | 5160.000   5200.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

### RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 10.49    | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 24          | 10.49    | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 23.41       | 10.49    | dBm  | not applicable |



ISED RSS247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1 Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -0.5     | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | -0.5     | dBm/1MHz | PASS    |

General verdict

PASS

## FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1

### Test References

|                                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| TC Start                          | 02.08.2022 14:14:43                                             |
| Ambit Temp [°C]   Humidity [rel%] | 28.7   40                                                       |
| System Version                    | 3.3.0.1                                                         |
| Test Specification                | FCC 15.247 -                                                    |
| Test Method                       | KDB789033 D02, F., E.2.e.                                       |
| TC Version                        | 0.0.1                                                           |
| My Description                    | FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1 |
| Add. Information                  |                                                                 |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx n-HT20 mode                    |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 5180                 |
| Frequency mid to test                            | False   Freq [MHz] 5200                |
| Frequency high to test                           | False   Freq [MHz] 5240                |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5180 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 7.78     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5181.200 | MHz  | INFO    |

## Evaluation max. Duty Cycle

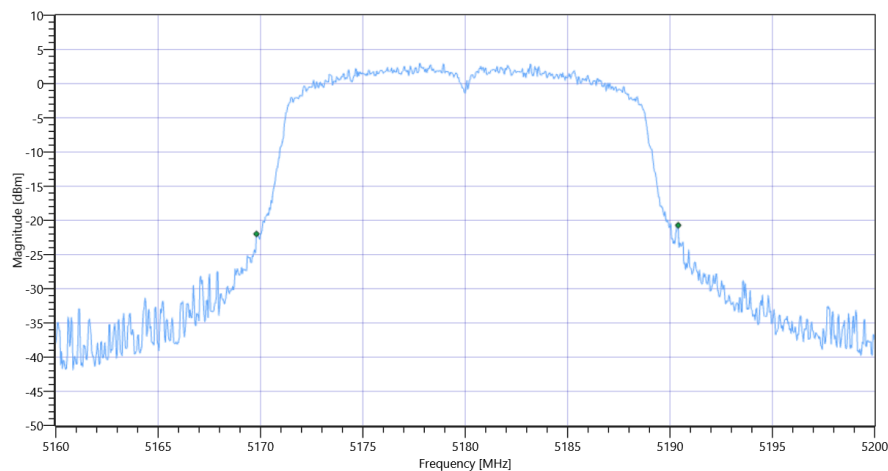
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB   | ---         | ---         | 20.6      | MHz  | INFO    |
| T1 26dB          | ---         | ---         | 5169.8000 | MHz  | INFO    |
| T2 26dB          | ---         | ---         | 5190.4000 | MHz  | INFO    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1\_BW

## Maximum Output Power

READ SA SETTINGS:

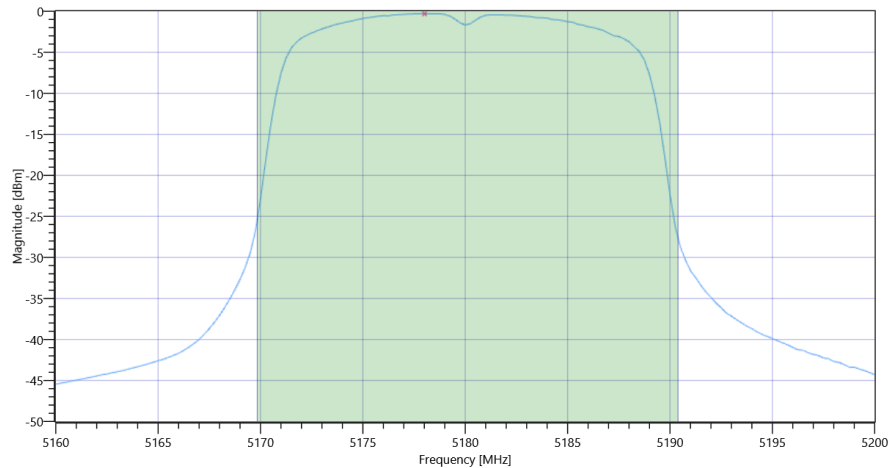
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.78   11.43   25    |
| Start [MHz]   Stop [MHz]                             | 5160.000   5200.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 10.88    | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 24          | 10.88    | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 24.14       | 10.88    | dBm  | not applicable |



FCC 15.247 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1 Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -0.3     | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | -0.3     | dBm/1MHz | PASS    |

General verdict

PASS

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

### Test References

|                                   |                                                      |
|-----------------------------------|------------------------------------------------------|
| TC Start                          | 02.08.2022 14:09:01                                  |
| Ambit Temp [°C]   Humidity [rel%] | 28.7   40                                            |
| System Version                    | 3.3.0.1                                              |
| Test Specification                | ISED RSS247 -                                        |
| Test Method                       |                                                      |
| TC Version                        | 0.0.1                                                |
| My Description                    | ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-3 |
| Add. Information                  |                                                      |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx a mode                         |
| Antenna Port used                                | 1                                      |
| 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]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5825 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 7.73     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5822.800 | MHz  | INFO    |

## Evaluation max. Duty Cycle

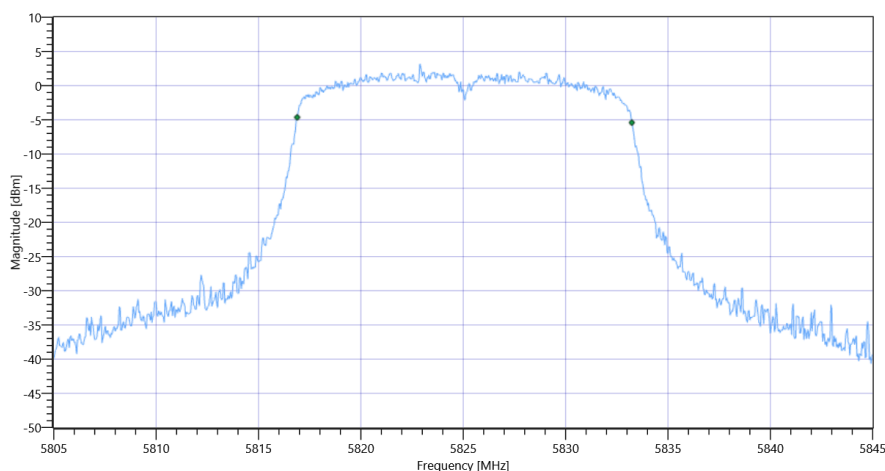
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 16.344    | MHz  | INFO    |
| T1 99%           | ---         | ---         | 5816.8881 | MHz  | INFO    |
| T2 99%           | ---         | ---         | 5833.2318 | MHz  | INFO    |



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

## Maximum Output Power

READ SA SETTINGS:

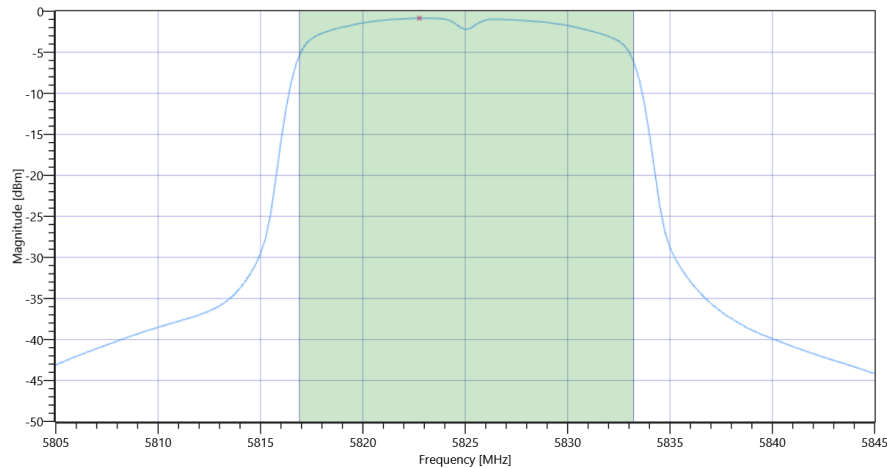
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.73   11.58   25    |
| Start [MHz]   Stop [MHz]                             | 5805.000   5845.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 10.13    | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 30          | 10.13    | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 23.13       | 10.13    | dBm  | not applicable |



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

## Power Spectral Density U-NII-3

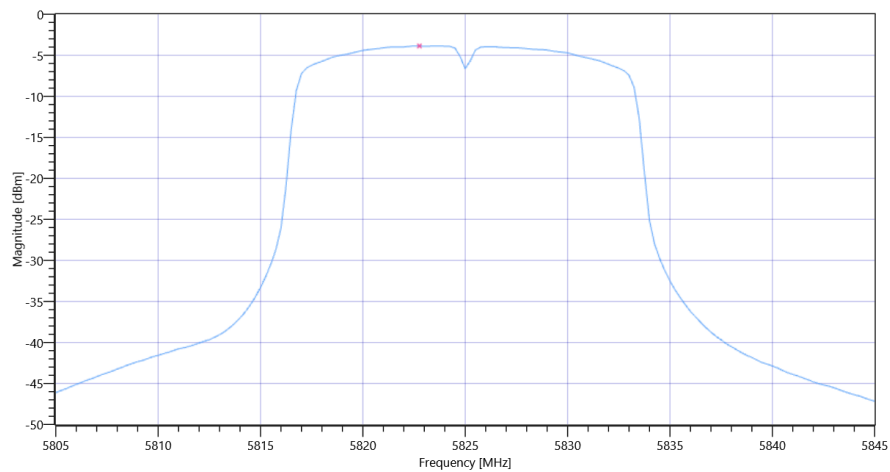
### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.73   11.58   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 | 53700   1   161   SWE |

## RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|-------------------------------------------|-------------|-------------|----------|------------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -3.86    | dBm/0.5MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB         | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 30          | -3.86    | dBm/0.5MHz | PASS    |





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

General verdict

PASS

## FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

| Test References                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| TC Start                          | 02.08.2022 14:06:20                                        |
| Ambit Temp [°C]   Humidity [rel%] | 28.7   40                                                  |
| System Version                    | 3.3.0.1                                                    |
| Test Specification                | FCC 15.247 -                                               |
| Test Method                       | KDB789033 D02, F., E.2.e.                                  |
| TC Version                        | 0.0.1                                                      |
| My Description                    | FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3 |
| Add. Information                  |                                                            |

| EUT Common Settings WLAN5Gx |        |
|-----------------------------|--------|
| Number of Antenna Ports     | 1      |
| User Interaction            | No     |
| Device Class UNII_1         | Client |

| Test Parameter                                   |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx a mode                         |
| Antenna Port used                                | 1                                      |
| 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]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

| Test Equipment                                                |  |
|---------------------------------------------------------------|--|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |  |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |  |

## Test at TX 5825 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 8.00     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5823.400 | MHz  | INFO    |

## Evaluation max. Duty Cycle

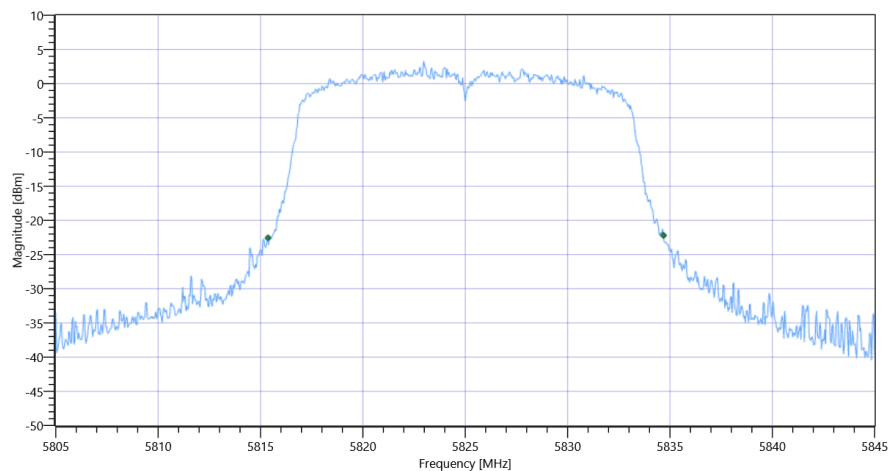
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB   | ---         | ---         | 19.32     | MHz  | INFO    |
| T1 26dB          | ---         | ---         | 5815.3600 | MHz  | INFO    |
| T2 26dB          | ---         | ---         | 5834.6800 | MHz  | INFO    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3\_BW

## Maximum Output Power

READ SA SETTINGS:

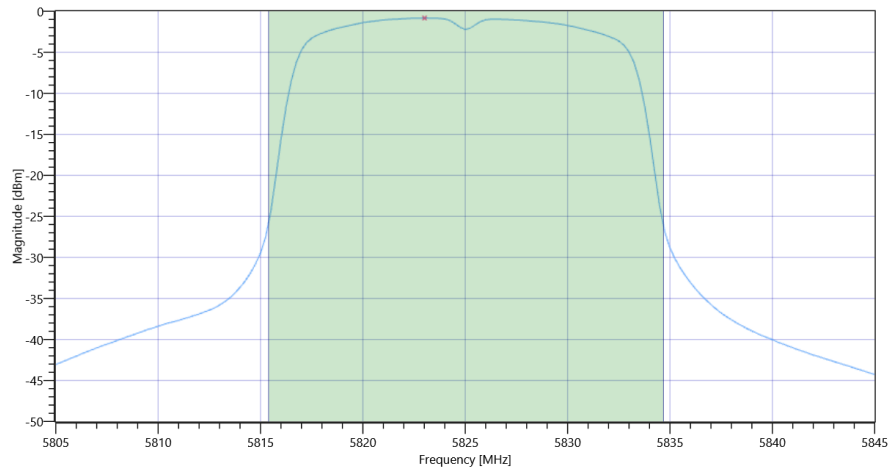
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.00   11.58   25    |
| Start [MHz]   Stop [MHz]                             | 5805.000   5845.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 10.22    | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 30          | 10.22    | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 23.86       | 10.22    | dBm  | not applicable |



FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3 Max OP and PSD

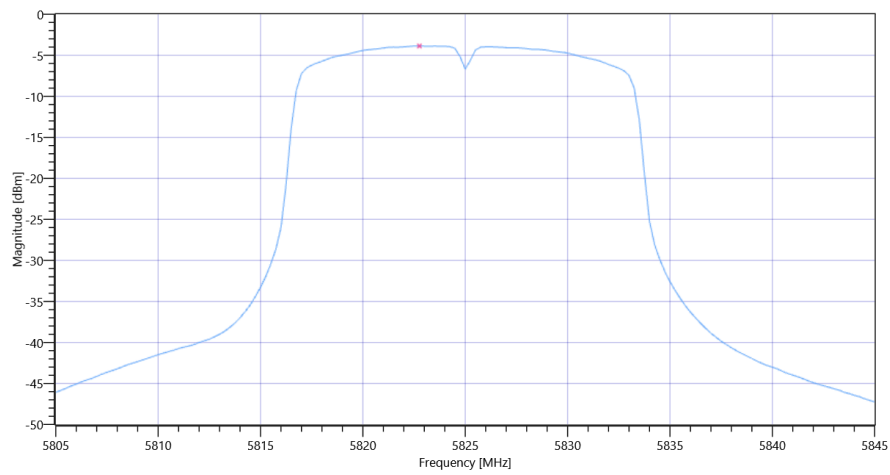
## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 20.00   11.58   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 | 53700   1   161   SWE |

## RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|-------------------------------------------|-------------|-------------|----------|------------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -3.87    | dBm/0.5MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB         | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 30          | -3.87    | dBm/0.5MHz | PASS    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3 PSD UNII-3

General verdict

PASS

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

| Test References                   |                                                      |
|-----------------------------------|------------------------------------------------------|
| TC Start                          | 02.08.2022 14:00:40                                  |
| Ambit Temp [°C]   Humidity [rel%] | 28.6   41                                            |
| System Version                    | 3.3.0.1                                              |
| Test Specification                | ISED RSS247 -                                        |
| Test Method                       |                                                      |
| TC Version                        | 0.0.1                                                |
| My Description                    | ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-3 |
| Add. Information                  |                                                      |

| EUT Common Settings WLAN5Gx |        |
|-----------------------------|--------|
| Number of Antenna Ports     | 1      |
| User Interaction            | No     |
| Device Class UNII_1         | Client |

| Test Parameter                                   |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx a mode                         |
| Antenna Port used                                | 1                                      |
| 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]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

| Test Equipment                                                |  |
|---------------------------------------------------------------|--|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |  |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |  |

## Test at TX 5785 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 6.81     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5781.800 | MHz  | INFO    |

## Evaluation max. Duty Cycle

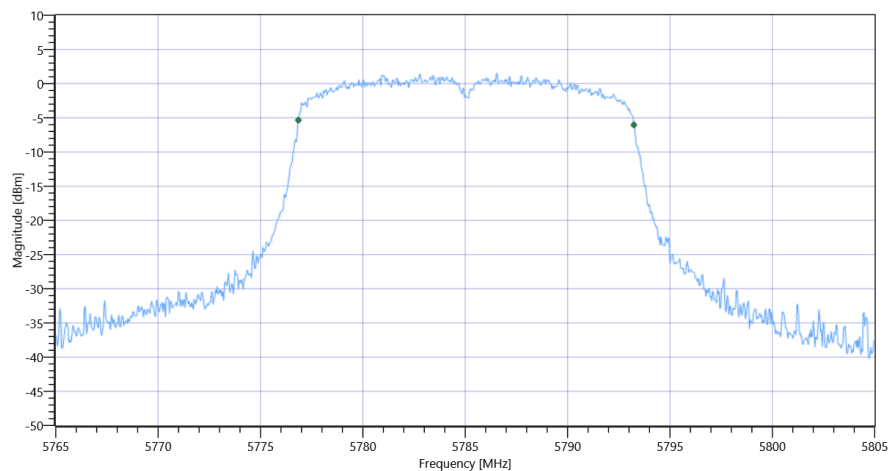
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 16.384    | MHz  | INFO    |
| T1 99%           | ---         | ---         | 5776.8482 | MHz  | INFO    |
| T2 99%           | ---         | ---         | 5793.2318 | MHz  | INFO    |



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

## Maximum Output Power

READ SA SETTINGS:

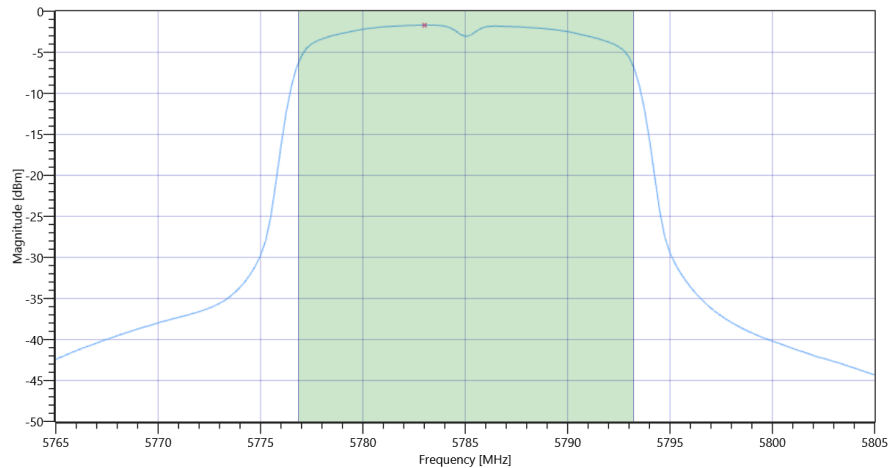
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.81   11.48   25    |
| Start [MHz]   Stop [MHz]                             | 5765.000   5805.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 9.34     | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 30          | 9.34     | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 23.14       | 9.34     | dBm  | not applicable |



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

## Power Spectral Density U-NII-3

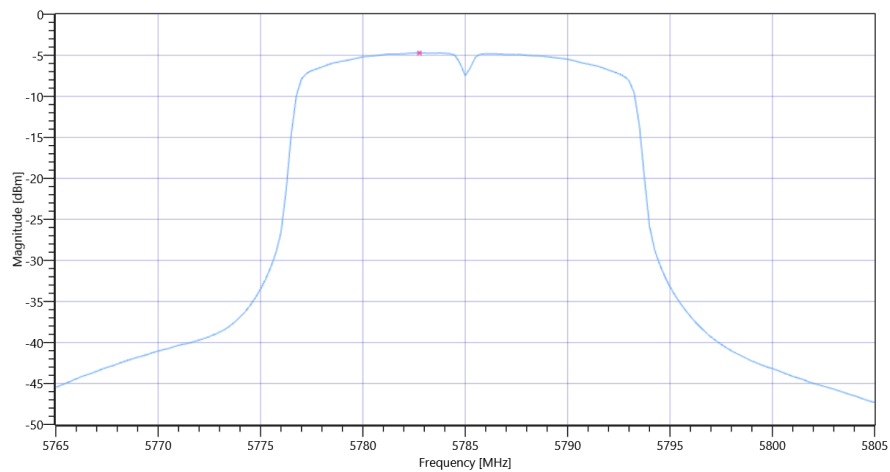
### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.81   11.48   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 | 53700   1   161   SWE |

## RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|-------------------------------------------|-------------|-------------|----------|------------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -4.71    | dBm/0.5MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB         | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 30          | -4.71    | dBm/0.5MHz | PASS    |





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

General verdict

PASS

## FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

| Test References                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| TC Start                          | 02.08.2022 13:57:59                                        |
| Ambit Temp [°C]   Humidity [rel%] | 28.5   41                                                  |
| System Version                    | 3.3.0.1                                                    |
| Test Specification                | FCC 15.247 -                                               |
| Test Method                       | KDB789033 D02, F., E.2.e.                                  |
| TC Version                        | 0.0.1                                                      |
| My Description                    | FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3 |
| Add. Information                  |                                                            |

| EUT Common Settings WLAN5Gx |        |
|-----------------------------|--------|
| Number of Antenna Ports     | 1      |
| User Interaction            | No     |
| Device Class UNII_1         | Client |

| Test Parameter                                   |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx a mode                         |
| Antenna Port used                                | 1                                      |
| 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]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

| Test Equipment                                                |  |
|---------------------------------------------------------------|--|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |  |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |  |

## Test at TX 5785 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 6.95     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5782.000 | MHz  | INFO    |

## Evaluation max. Duty Cycle

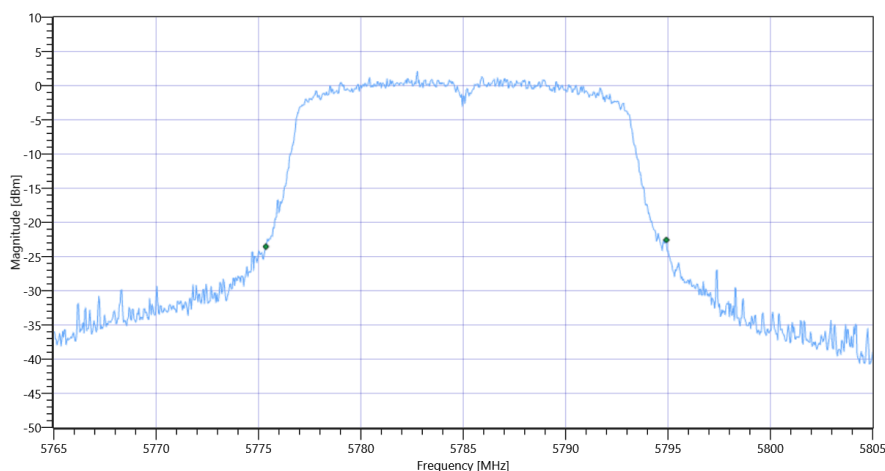
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB   | ---         | ---         | 19.56     | MHz  | INFO    |
| T1 26dB          | ---         | ---         | 5775.3600 | MHz  | INFO    |
| T2 26dB          | ---         | ---         | 5794.9200 | MHz  | INFO    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3\_BW

## Maximum Output Power

READ SA SETTINGS:

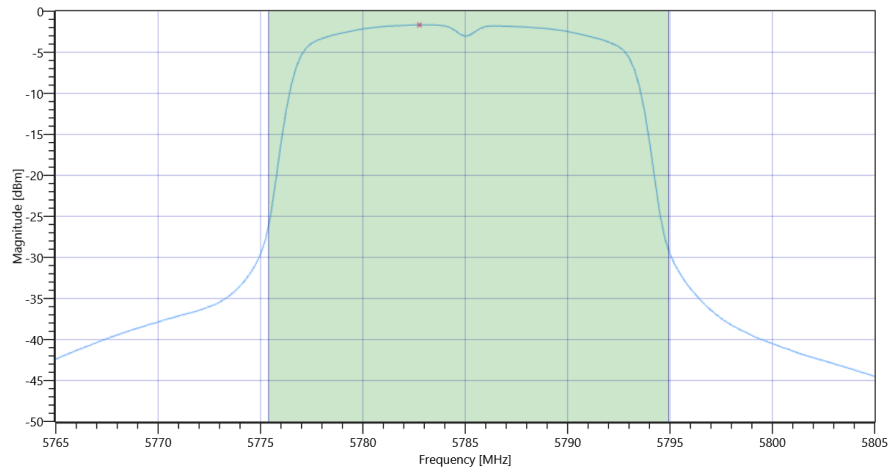
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.95   11.48   25    |
| Start [MHz]   Stop [MHz]                             | 5765.000   5805.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 9.45     | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 30          | 9.45     | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 23.91       | 9.45     | dBm  | not applicable |



FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3 Max OP and PSD

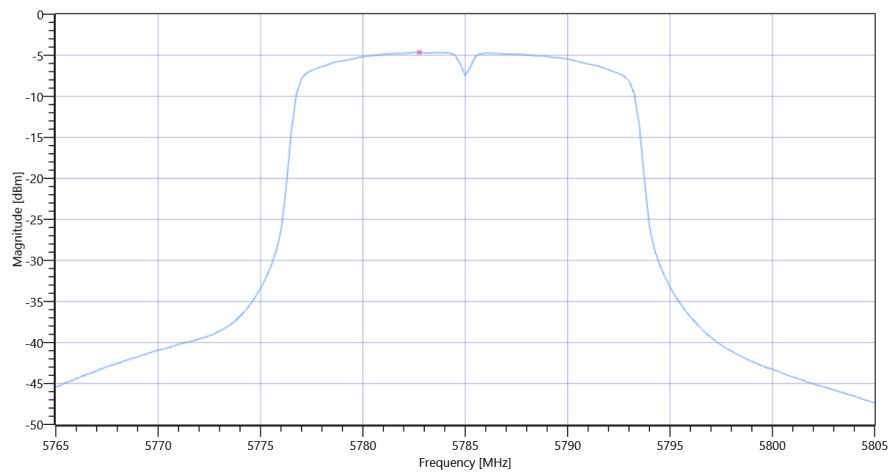
## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.95   11.48   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 | 53700   1   161   SWE |

## RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|-------------------------------------------|-------------|-------------|----------|------------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -4.66    | dBm/0.5MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB         | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 30          | -4.66    | dBm/0.5MHz | PASS    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3 PSD UNII-3

General verdict

PASS

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

### Test References

|                                   |                                                      |
|-----------------------------------|------------------------------------------------------|
| TC Start                          | 02.08.2022 13:49:13                                  |
| Ambit Temp [°C]   Humidity [rel%] | 28.4   41                                            |
| System Version                    | 3.3.0.1                                              |
| Test Specification                | ISED RSS247 -                                        |
| Test Method                       |                                                      |
| TC Version                        | 0.0.1                                                |
| My Description                    | ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-3 |
| Add. Information                  |                                                      |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx a mode                         |
| Antenna Port used                                | 1                                      |
| 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]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5745 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 7.02     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5747.000 | MHz  | INFO    |

## Evaluation max. Duty Cycle

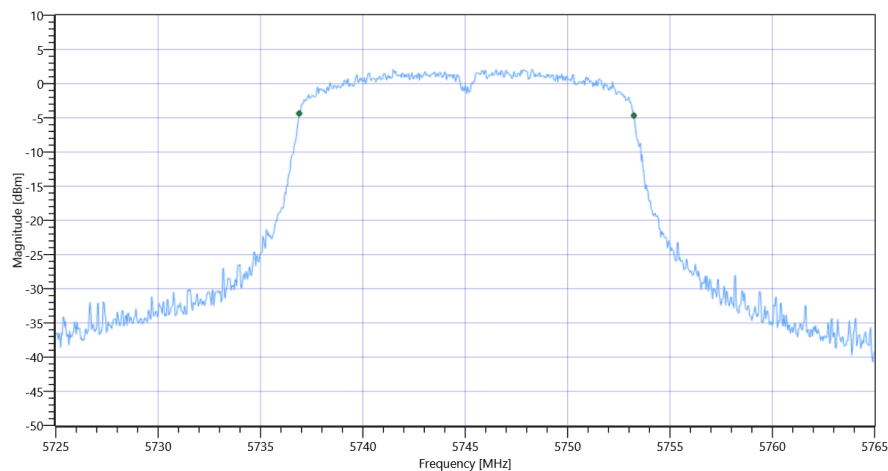
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 16.344    | MHz  | INFO    |
| T1 99%           | ---         | ---         | 5736.8881 | MHz  | INFO    |
| T2 99%           | ---         | ---         | 5753.2318 | MHz  | INFO    |



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

## Maximum Output Power

READ SA SETTINGS:

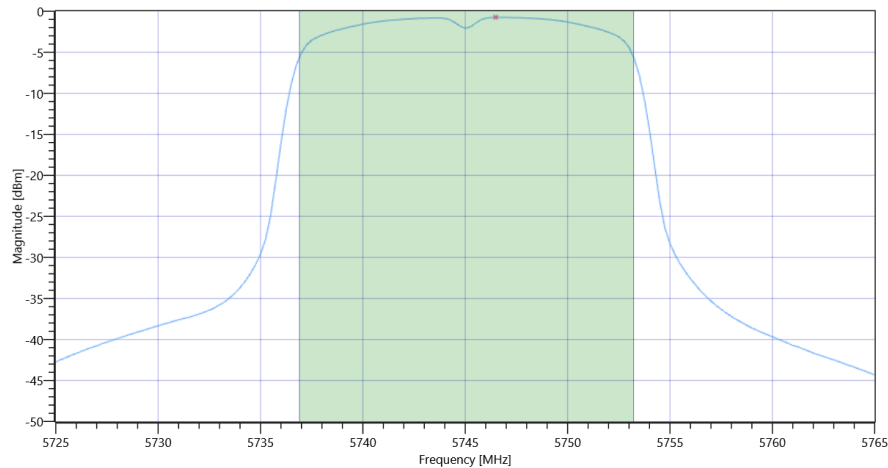
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.02   11.46   25    |
| Start [MHz]   Stop [MHz]                             | 5725.000   5765.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 10.27    | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 30          | 10.27    | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 23.13       | 10.27    | dBm  | not applicable |



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

## Power Spectral Density U-NII-3

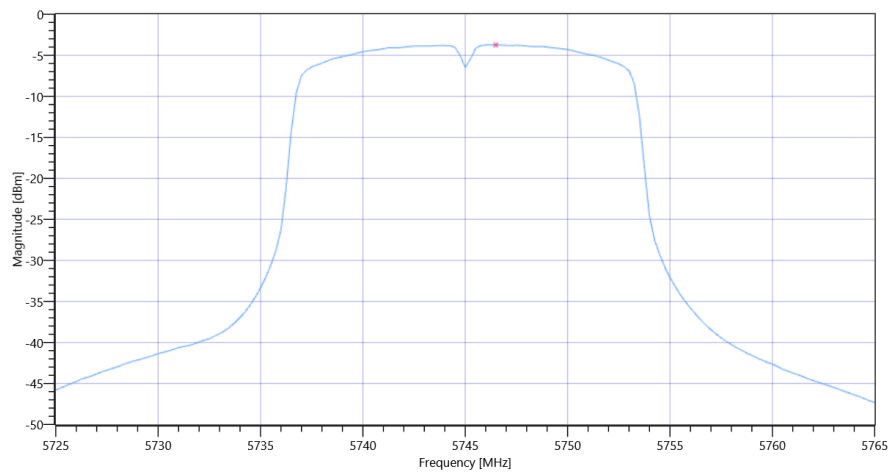
### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.02   11.46   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 | 53700   1   161   SWE |

## RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|-------------------------------------------|-------------|-------------|----------|------------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -3.74    | dBm/0.5MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB         | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 30          | -3.74    | dBm/0.5MHz | PASS    |





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

General verdict

PASS

## FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

### Test References

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| TC Start                          | 02.08.2022 13:46:33                                        |
| Ambit Temp [°C]   Humidity [rel%] | 28.4   41                                                  |
| System Version                    | 3.3.0.1                                                    |
| Test Specification                | FCC 15.247 -                                               |
| Test Method                       | KDB789033 D02, F., E.2.e.                                  |
| TC Version                        | 0.0.1                                                      |
| My Description                    | FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3 |
| Add. Information                  |                                                            |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx a mode                         |
| Antenna Port used                                | 1                                      |
| 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]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5745 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 7.43     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5743.800 | MHz  | INFO    |

## Evaluation max. Duty Cycle

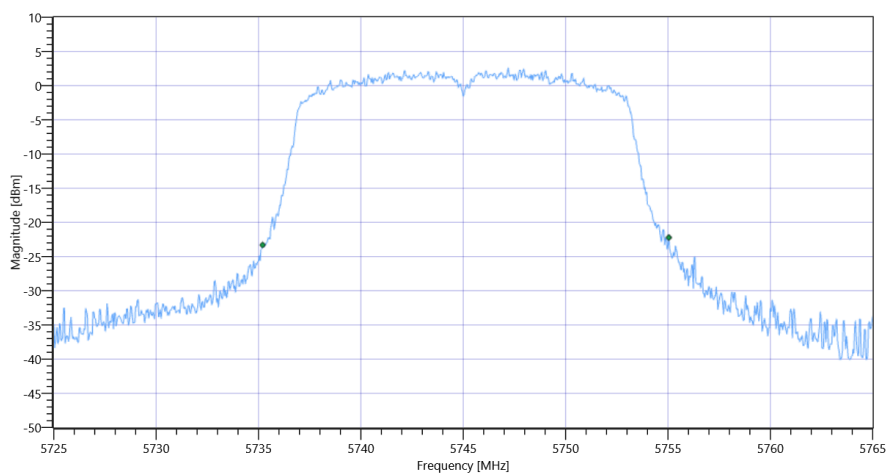
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB   | ---         | ---         | 19.84     | MHz  | INFO    |
| T1 26dB          | ---         | ---         | 5735.2000 | MHz  | INFO    |
| T2 26dB          | ---         | ---         | 5755.0400 | MHz  | INFO    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3\_BW

## Maximum Output Power

READ SA SETTINGS:

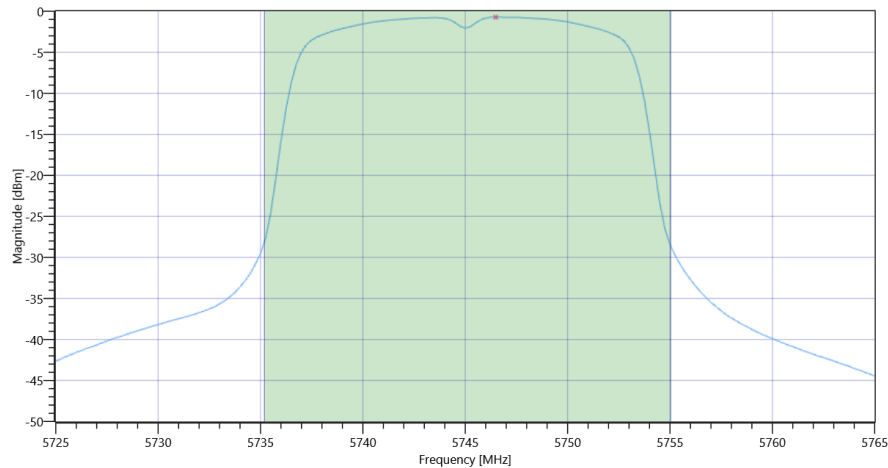
|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.43   11.46   25    |
| Start [MHz]   Stop [MHz]                             | 5725.000   5765.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 10.36    | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                    | Lower Limit | Upper Limit | Measured | Unit | Verdict        |
|-------------------------------------|-------------|-------------|----------|------|----------------|
| Max Output Power<br>DC corrected    | ---         | 30          | 10.36    | dBm  | PASS           |
| Limit by: 11 dBm + 10 log Bandwidth |             |             |          |      |                |
| Max Output Power<br>DC corrected    | ---         | 23.98       | 10.36    | dBm  | not applicable |



FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3 Max OP and PSD

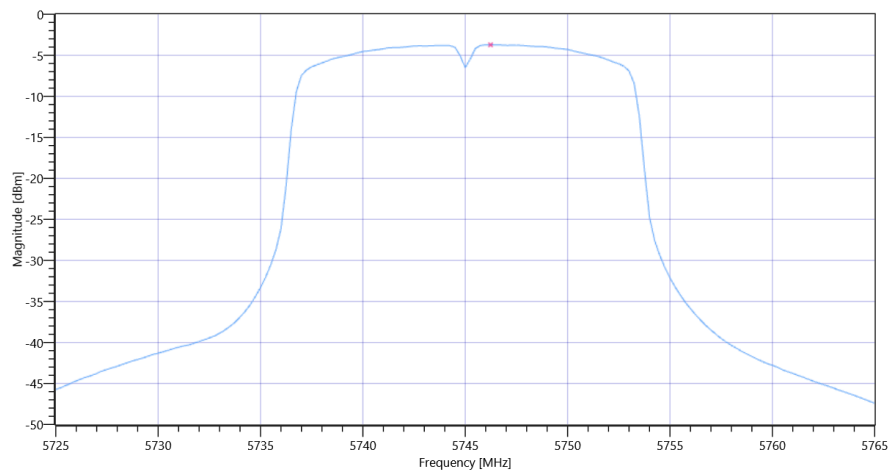
## Power Spectral Density U-NII-3

### READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 19.43   11.46   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 | 53700   1   161   SWE |

## RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit       | Verdict |
|-------------------------------------------|-------------|-------------|----------|------------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -3.73    | dBm/0.5MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB         | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 30          | -3.73    | dBm/0.5MHz | PASS    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-3 PSD UNII-3

General verdict

PASS

## ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

### Test References

|                                   |                                                       |
|-----------------------------------|-------------------------------------------------------|
| TC Start                          | 02.08.2022 13:33:36                                   |
| Ambit Temp [°C]   Humidity [rel%] | 28.3   42                                             |
| System Version                    | 3.3.0.1                                               |
| Test Specification                | ISED RSS247 -                                         |
| Test Method                       |                                                       |
| TC Version                        | 0.0.1                                                 |
| My Description                    | ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-2C |
| Add. Information                  |                                                       |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx a mode                         |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5500                |
| Frequency mid to test                            | True   Freq [MHz] 5600                 |
| Frequency high to test                           | False   Freq [MHz] 5700                |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5600 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 6.29     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5602.000 | MHz  | INFO    |

## Evaluation max. Duty Cycle

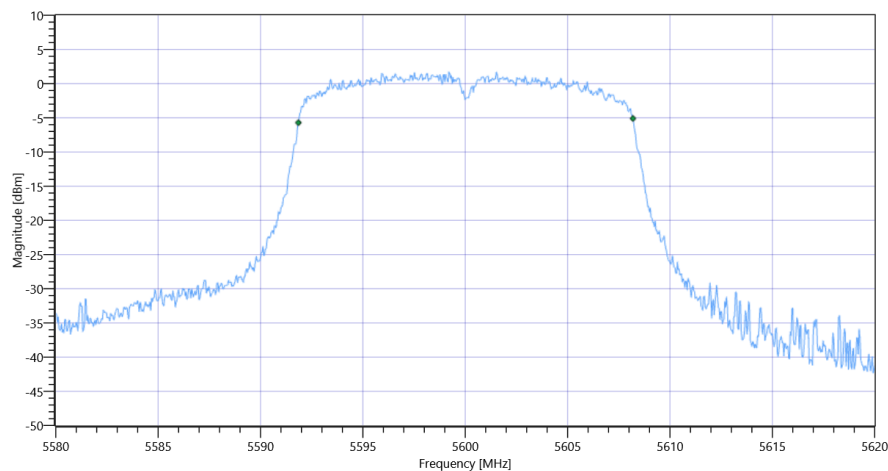
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 16.344    | MHz  | INFO    |
| T1 99%           | ---         | ---         | 5591.8482 | MHz  | INFO    |
| T2 99%           | ---         | ---         | 5608.1918 | MHz  | INFO    |



ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C\_BW

## Maximum Output Power

READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.29   11.36   25    |
| Start [MHz]   Stop [MHz]                             | 5580.000   5620.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

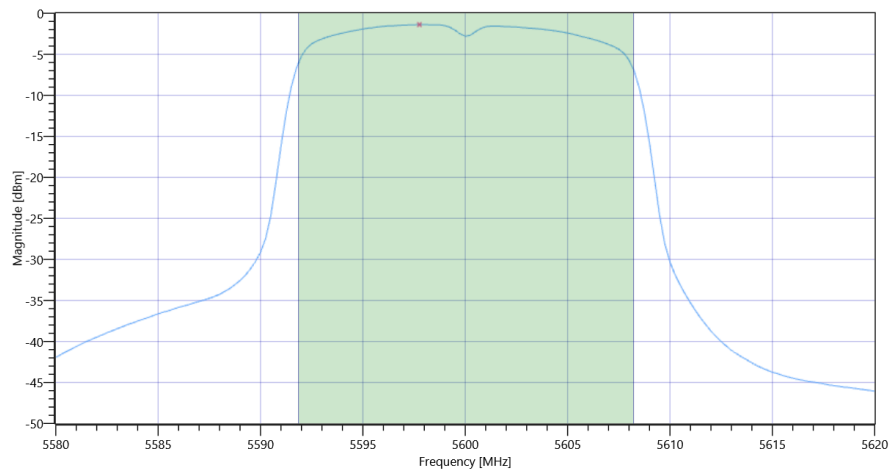
| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 9.55     | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                 | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|----------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power<br>DC corrected | ---         | 24          | 9.55     | dBm  | PASS    |

Limit by: 11 dBm + 10 log Bandwidth

|                                  |     |       |      |     |      |
|----------------------------------|-----|-------|------|-----|------|
| Max Output Power<br>DC corrected | --- | 23.13 | 9.55 | dBm | PASS |
|----------------------------------|-----|-------|------|-----|------|



ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -1.38    | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | -1.38    | dBm/1MHz | PASS    |

General verdict

PASS



## FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

| Test References                   |                                                             |
|-----------------------------------|-------------------------------------------------------------|
| TC Start                          | 02.08.2022 13:31:58                                         |
| Ambit Temp [°C]   Humidity [rel%] | 28.2   42                                                   |
| System Version                    | 3.3.0.1                                                     |
| Test Specification                | FCC 15.247 -                                                |
| Test Method                       | KDB789033 D02, F., E.2.e.                                   |
| TC Version                        | 0.0.1                                                       |
| My Description                    | FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C |
| Add. Information                  |                                                             |

| EUT Common Settings WLAN5Gx |        |
|-----------------------------|--------|
| Number of Antenna Ports     | 1      |
| User Interaction            | No     |
| Device Class UNII_1         | Client |

| Test Parameter                                   |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx a mode                         |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5500                |
| Frequency mid to test                            | True   Freq [MHz] 5600                 |
| Frequency high to test                           | False   Freq [MHz] 5700                |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

| Test Equipment                                                |  |
|---------------------------------------------------------------|--|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |  |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |  |

## Test at TX 5600 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 6.61     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5596.600 | MHz  | INFO    |

## Evaluation max. Duty Cycle

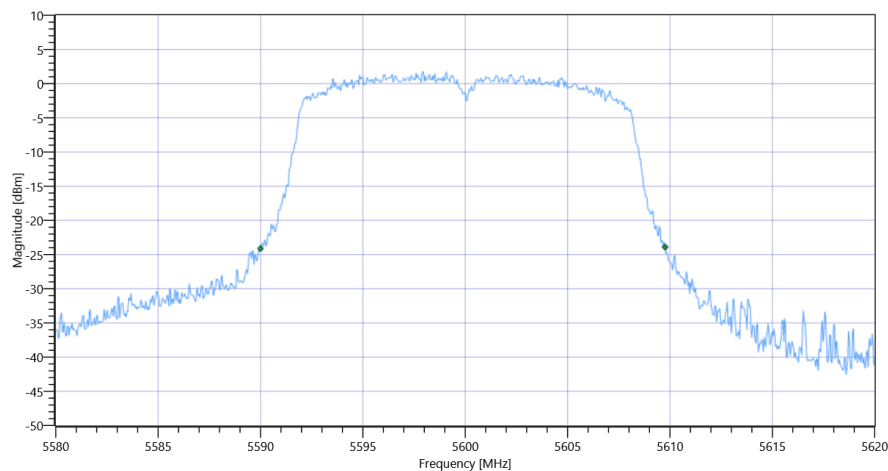
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB   | ---         | ---         | 19.76     | MHz  | INFO    |
| T1 26dB          | ---         | ---         | 5590.0000 | MHz  | INFO    |
| T2 26dB          | ---         | ---         | 5609.7600 | MHz  | INFO    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C\_BW

## Maximum Output Power

READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.61   11.36   25    |
| Start [MHz]   Stop [MHz]                             | 5580.000   5620.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

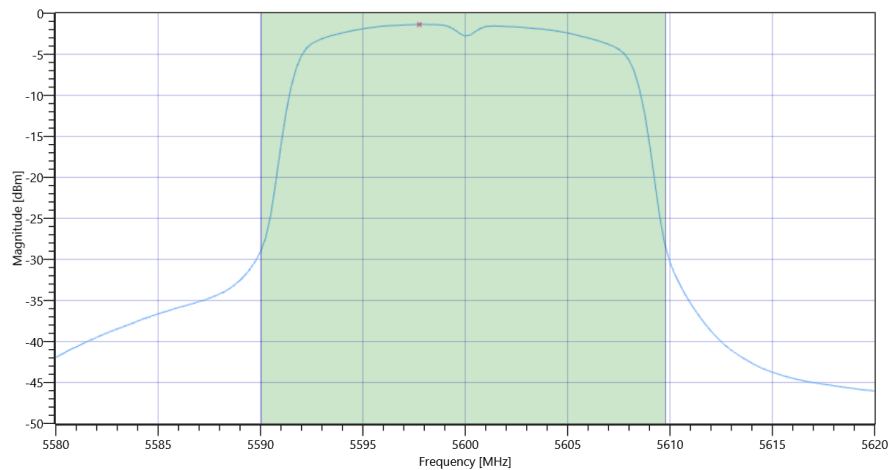
| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 9.65     | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                 | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|----------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power<br>DC corrected | ---         | 24          | 9.65     | dBm  | PASS    |

Limit by: 11 dBm + 10 log Bandwidth

|                                  |     |       |      |     |      |
|----------------------------------|-----|-------|------|-----|------|
| Max Output Power<br>DC corrected | --- | 23.96 | 9.65 | dBm | PASS |
|----------------------------------|-----|-------|------|-----|------|



FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -1.37    | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | -1.37    | dBm/1MHz | PASS    |

General verdict

PASS

## ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

### Test References

|                                   |                                                       |
|-----------------------------------|-------------------------------------------------------|
| TC Start                          | 02.08.2022 13:28:53                                   |
| Ambit Temp [°C]   Humidity [rel%] | 28.1   42                                             |
| System Version                    | 3.3.0.1                                               |
| Test Specification                | ISED RSS247 -                                         |
| Test Method                       |                                                       |
| TC Version                        | 0.0.1                                                 |
| My Description                    | ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-2C |
| Add. Information                  |                                                       |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx a mode                         |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 5500                 |
| Frequency mid to test                            | False   Freq [MHz] 5600                |
| Frequency high to test                           | False   Freq [MHz] 5700                |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5500 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 6.52     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5498.600 | MHz  | INFO    |

## Evaluation max. Duty Cycle

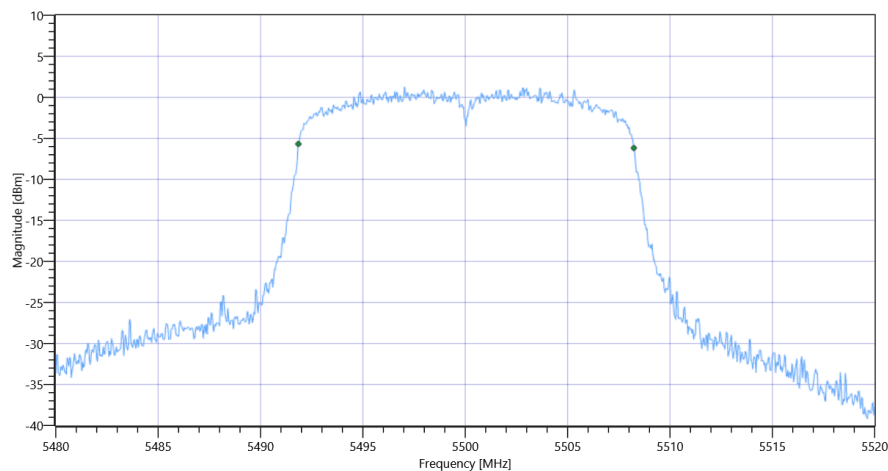
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99%    | ---         | ---         | 16.384    | MHz  | INFO    |
| T1 99%           | ---         | ---         | 5491.8482 | MHz  | INFO    |
| T2 99%           | ---         | ---         | 5508.2318 | MHz  | INFO    |



ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C\_BW

## Maximum Output Power

READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.52   11.34   25    |
| Start [MHz]   Stop [MHz]                             | 5480.000   5520.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

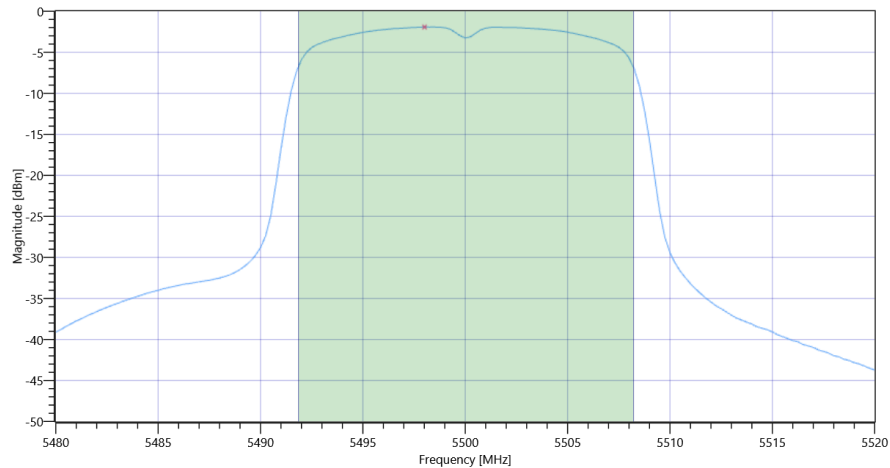
| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 9.13     | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

## RESULT

| Test Description                 | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|----------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power<br>DC corrected | ---         | 24          | 9.13     | dBm  | PASS    |

Limit by: 11 dBm + 10 log Bandwidth

|                                  |     |       |      |     |      |
|----------------------------------|-----|-------|------|-----|------|
| Max Output Power<br>DC corrected | --- | 23.14 | 9.13 | dBm | PASS |
|----------------------------------|-----|-------|------|-----|------|



ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -1.92    | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | -1.92    | dBm/1MHz | PASS    |

General verdict

PASS

## FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

### Test References

|                                   |                                                             |
|-----------------------------------|-------------------------------------------------------------|
| TC Start                          | 02.08.2022 13:27:16                                         |
| Ambit Temp [°C]   Humidity [rel%] | 28.1   42                                                   |
| System Version                    | 3.3.0.1                                                     |
| Test Specification                | FCC 15.247 -                                                |
| Test Method                       | KDB789033 D02, F., E.2.e.                                   |
| TC Version                        | 0.0.1                                                       |
| My Description                    | FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C |
| Add. Information                  |                                                             |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx a mode                         |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | True   Freq [MHz] 5500                 |
| Frequency mid to test                            | False   Freq [MHz] 5600                |
| Frequency high to test                           | False   Freq [MHz] 5700                |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |

## Test at TX 5500 MHz

RESULT: Reference Power cond.

| Test Description              | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power<br>1MHz/1MHz cond. | ---         | ---         | 6.43     | dBm  | INFO    |
| Ref. Frequency                | ---         | ---         | 5501.400 | MHz  | INFO    |

## Evaluation max. Duty Cycle

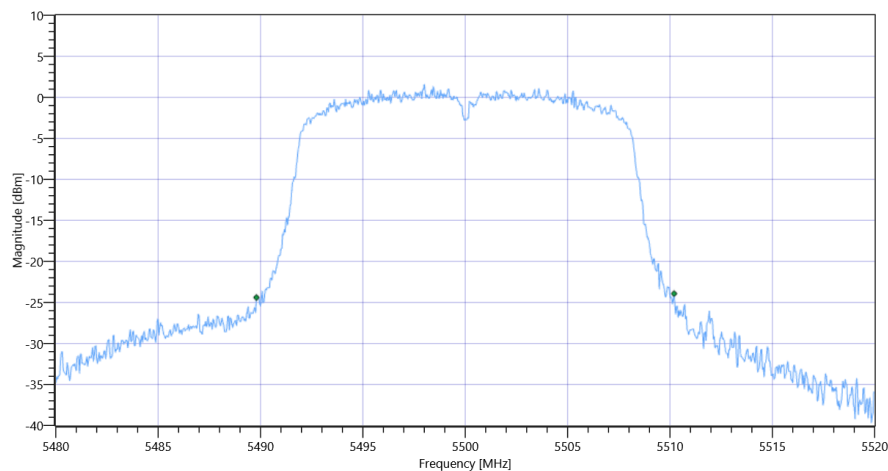
Duty Cycle evaluation

| Test Description | Lower Limit | Upper Limit | Measured | Unit | Verdict          |
|------------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min   | ---         | ---         | 0        | dB   | DC > 98% defined |

## Evaluation Bandwidth

RESULT

| Test Description | Lower Limit | Upper Limit | Measured  | Unit | Verdict |
|------------------|-------------|-------------|-----------|------|---------|
| Bandwidth 26dB   | ---         | ---         | 20.4      | MHz  | INFO    |
| T1 26dB          | ---         | ---         | 5489.8000 | MHz  | INFO    |
| T2 26dB          | ---         | ---         | 5510.2000 | MHz  | INFO    |



FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C\_BW

## Maximum Output Power

READ SA SETTINGS:

|                                                      |                       |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm]   RefLevelOffset [dB]   InpAtt [dB]   | 18.43   11.34   25    |
| Start [MHz]   Stop [MHz]                             | 5480.000   5520.000   |
| RBW [MHz]   VBW [MHz]                                | 1.000000   3.000000   |
| Detector   TraceMode                                 | RMS   MAXH            |
| Sweep: Time [ms]   Count   Points per Section   Type | 53700   1   161   SWE |

RESULT

| Test Description         | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|--------------------------|-------------|-------------|----------|------|---------|
| Max Output Power         | ---         | ---         | 9.21     | dBm  | INFO    |
| Duty Cycle<br>Correction | ---         | ---         | 0        | dB   | INFO    |
| Limit absolute           |             |             |          |      |         |

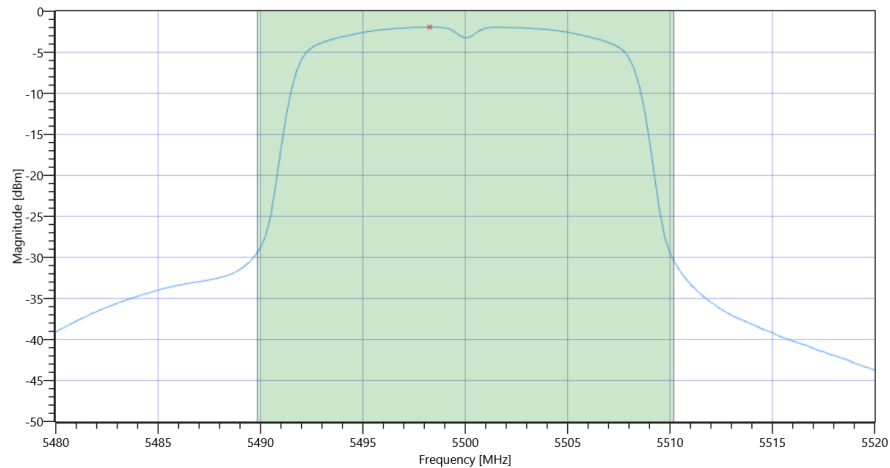


## RESULT

| Test Description                 | Lower Limit | Upper Limit | Measured | Unit | Verdict |
|----------------------------------|-------------|-------------|----------|------|---------|
| Max Output Power<br>DC corrected | ---         | 24          | 9.21     | dBm  | PASS    |

Limit by: 11 dBm + 10 log Bandwidth

|                                  |     |      |      |     |      |
|----------------------------------|-----|------|------|-----|------|
| Max Output Power<br>DC corrected | --- | 24.1 | 9.21 | dBm | PASS |
|----------------------------------|-----|------|------|-----|------|



FCC 15.247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C Max OP and PSD

## Power Spectral Density

### RESULT

| Test Description                          | Lower Limit | Upper Limit | Measured | Unit     | Verdict |
|-------------------------------------------|-------------|-------------|----------|----------|---------|
| Power Spectral<br>Density                 | ---         | ---         | -1.93    | dBm/1MHz | INFO    |
| Duty Cycle<br>Correction                  | ---         | ---         | 0        | dB       | INFO    |
| Power Spectral<br>Density DC<br>corrected | ---         | 11          | -1.93    | dBm/1MHz | PASS    |

General verdict

PASS

## ISED RSS247 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A

### Test References

|                                   |                                                       |
|-----------------------------------|-------------------------------------------------------|
| TC Start                          | 02.08.2022 13:24:05                                   |
| Ambit Temp [°C]   Humidity [rel%] | 28.1   42                                             |
| System Version                    | 3.3.0.1                                               |
| Test Specification                | ISED RSS247 -                                         |
| Test Method                       |                                                       |
| TC Version                        | 0.0.1                                                 |
| My Description                    | ISED Max Output Power & PSD - WLAN5Gx a mode U-NII-2A |
| Add. Information                  |                                                       |

### EUT Common Settings WLAN5Gx

|                         |        |
|-------------------------|--------|
| Number of Antenna Ports | 1      |
| User Interaction        | No     |
| Device Class UNII_1     | Client |

### Test Parameter

|                                                  |                                        |
|--------------------------------------------------|----------------------------------------|
| Technology to test                               | WLAN5Gx a mode                         |
| Antenna Port used                                | 1                                      |
| Temperature                                      | nom                                    |
| Voltage                                          | nom                                    |
| Frequency low to test                            | False   Freq [MHz] 5260                |
| Frequency mid to test                            | False   Freq [MHz] 5280                |
| Frequency high to test                           | True   Freq [MHz] 5320                 |
| Auto Control enabled Power Supply   Climatic Box | No   No                                |
| Additional Path Loss [dB]                        | 0.7                                    |
| Switched Path                                    | EUT - SignalingUnit - SpectrumAnalyzer |

### Test Equipment

|                                                               |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Switch matrix,CTCadvanced,RSM-1 NI DAQ,29655273,NI            |