

Conducted test results

No.1-6579/23-01-15_TR1-A201-R1

February 23, 2024

Test Standard(s) FCC 15.247 - NI
 FCC 15.247, ISED RSS247 - NI

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Authorized

Michael Dorongovski

Lab Manager
Radio Labs

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| | |
|--|------------|
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FCC 15.247 # Avg output power SA DTS ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 14:42:48 |
| Ambit temp [°C] humidity [rel%] | 23.7 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.9.2.2.2 or .4 |
| Description | FCC 15.247 Avg output power SA DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2412 MHz

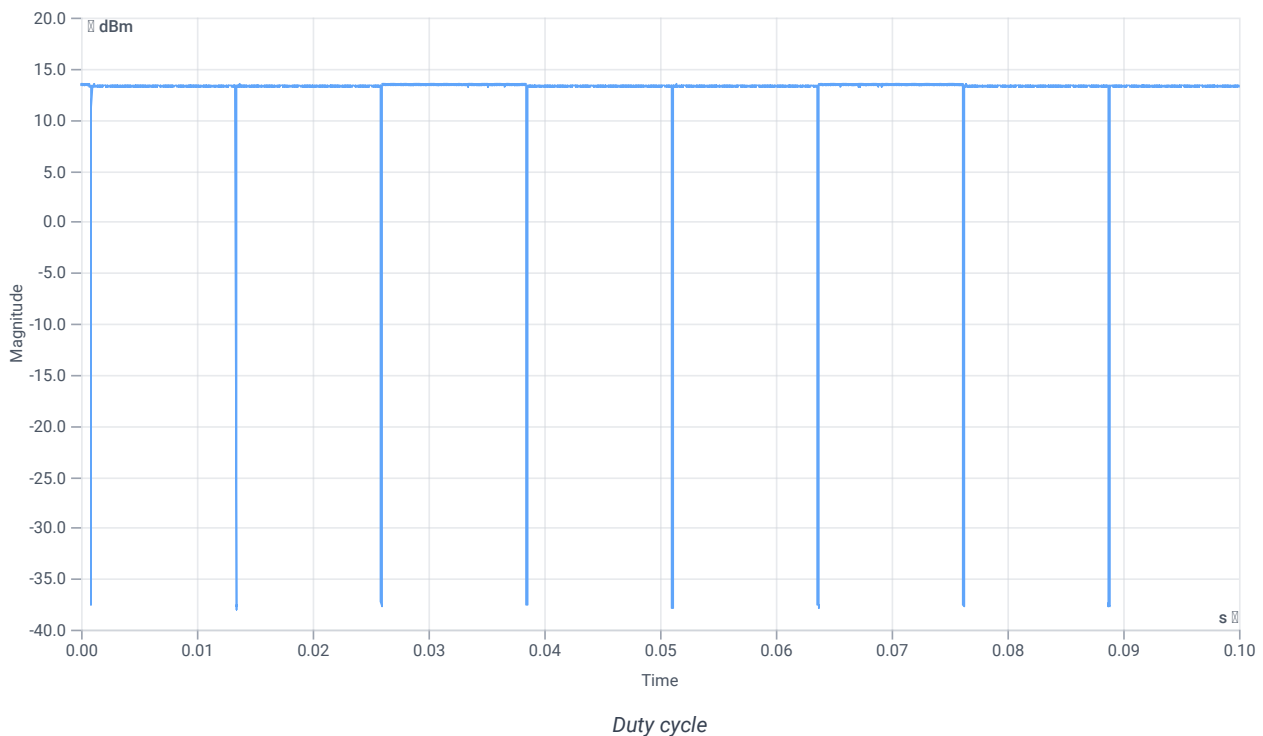
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 9.40 | dBm | INFO |
| Ref. Frequency | -- | -- | 2413.100 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

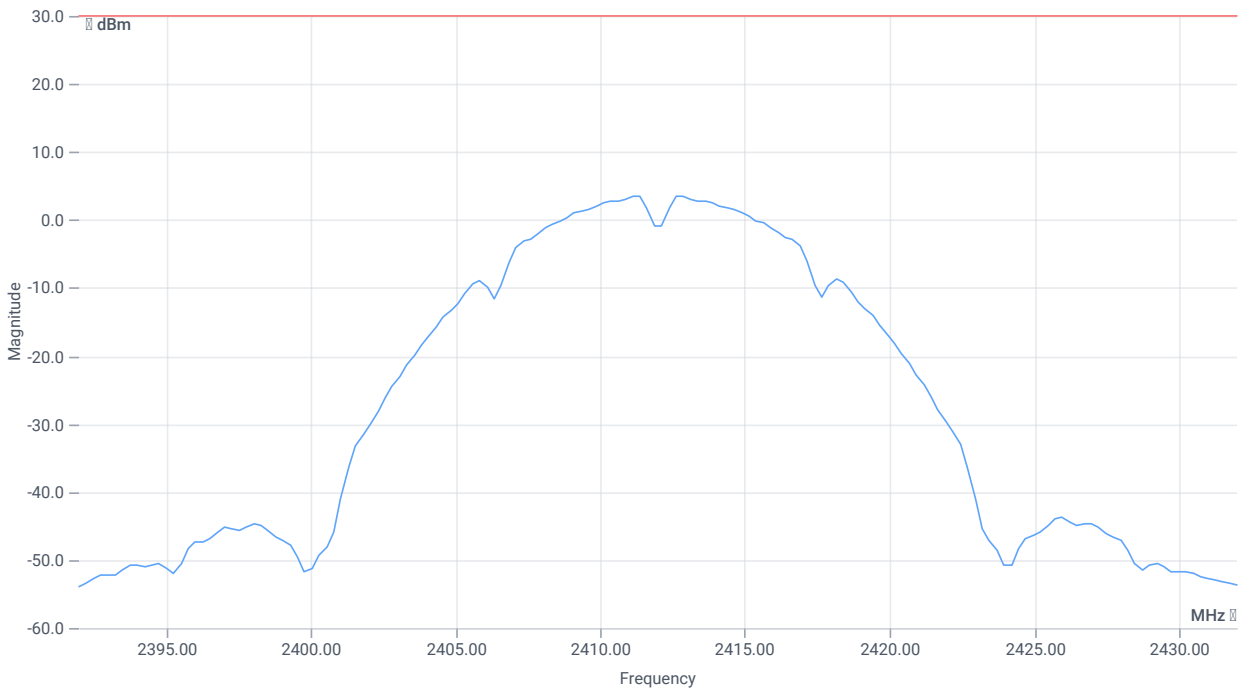
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:7 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.99 | -- | INFO |
| Duty Cycle max | -- | -- | 0.044 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.986 | -- | INFO |
| Duty Cycle min | -- | -- | 0.061 | dB | INFO |
| Max TX Burst Length | -- | -- | 12.425 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.175 | ms | INFO |



Avg output power SA DTS

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 19.40 13.65 20 |
| Start [MHz] Stop [MHz] | 2392.000 2432.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 500 100 160 SWE |



Avg output power SA DTS

RESULT (Channel power method)

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Avg output power uncorrected | -- | -- | 14.06 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.06 | dB | INFO |
| Avg power DC corrected | -- | 30 | 14.12 | dBm | PASS |

Verdict

PASS

FCC 15.247 # Avg output power SA DTS ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 14:51:58 |
| Ambit temp [°C] humidity [rel%] | 23.7 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.9.2.2.2 or .4 |
| Description | FCC 15.247 Avg output power SA DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2412 MHz

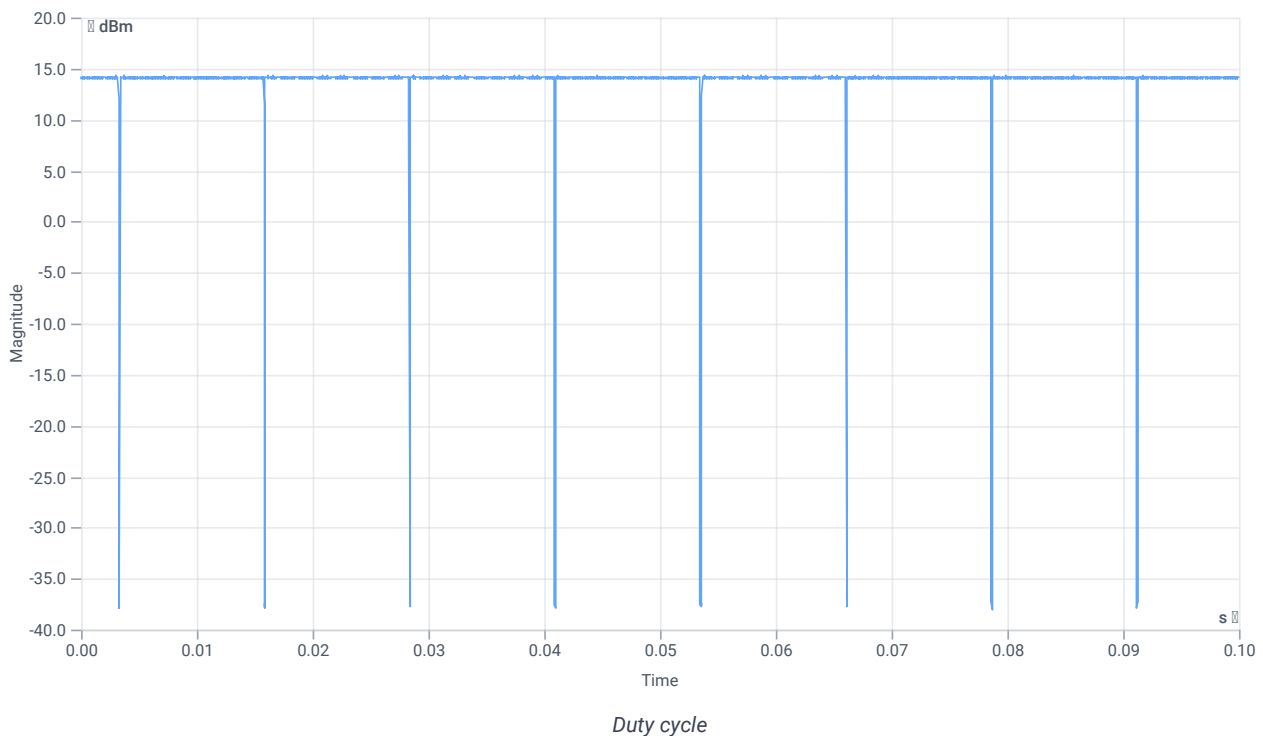
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 9.99 | dBm | INFO |
| Ref. Frequency | -- | -- | 2413.200 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

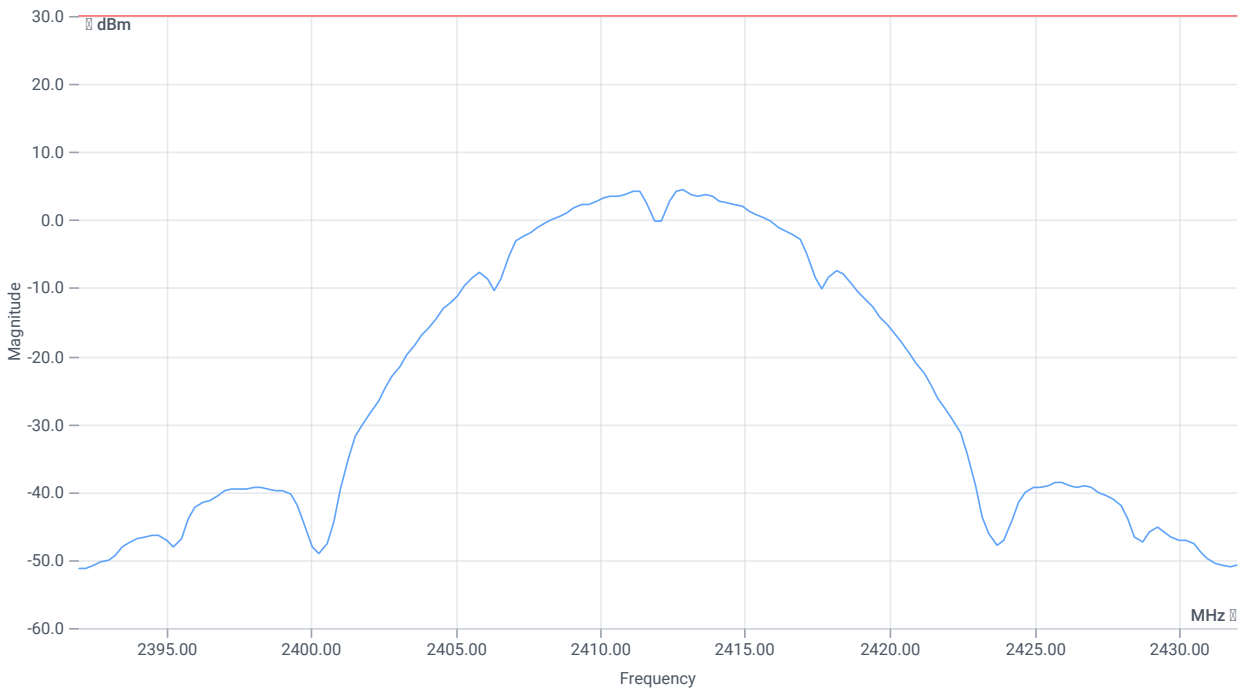
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:7 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.99 | -- | INFO |
| Duty Cycle max | -- | -- | 0.044 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.984 | -- | INFO |
| Duty Cycle min | -- | -- | 0.07 | dB | INFO |
| Max TX Burst Length | -- | -- | 12.425 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.2 | ms | INFO |



Avg output power SA DTS

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 19.99 13.65 25 |
| Start [MHz] Stop [MHz] | 2392.000 2432.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 500 100 160 SWE |



Avg output power SA DTS

RESULT (Channel power method)

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Avg output power uncorrected | -- | -- | 14.85 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.07 | dB | INFO |
| Avg power DC corrected | -- | 30 | 14.92 | dBm | PASS |

Verdict

PASS

FCC 15.247 # Avg output power SA DTS ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 15:03:09 |
| Ambit temp [°C] humidity [rel%] | 23.7 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.9.2.2.2 or .4 |
| Description | FCC 15.247 Avg output power SA DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2437 MHz

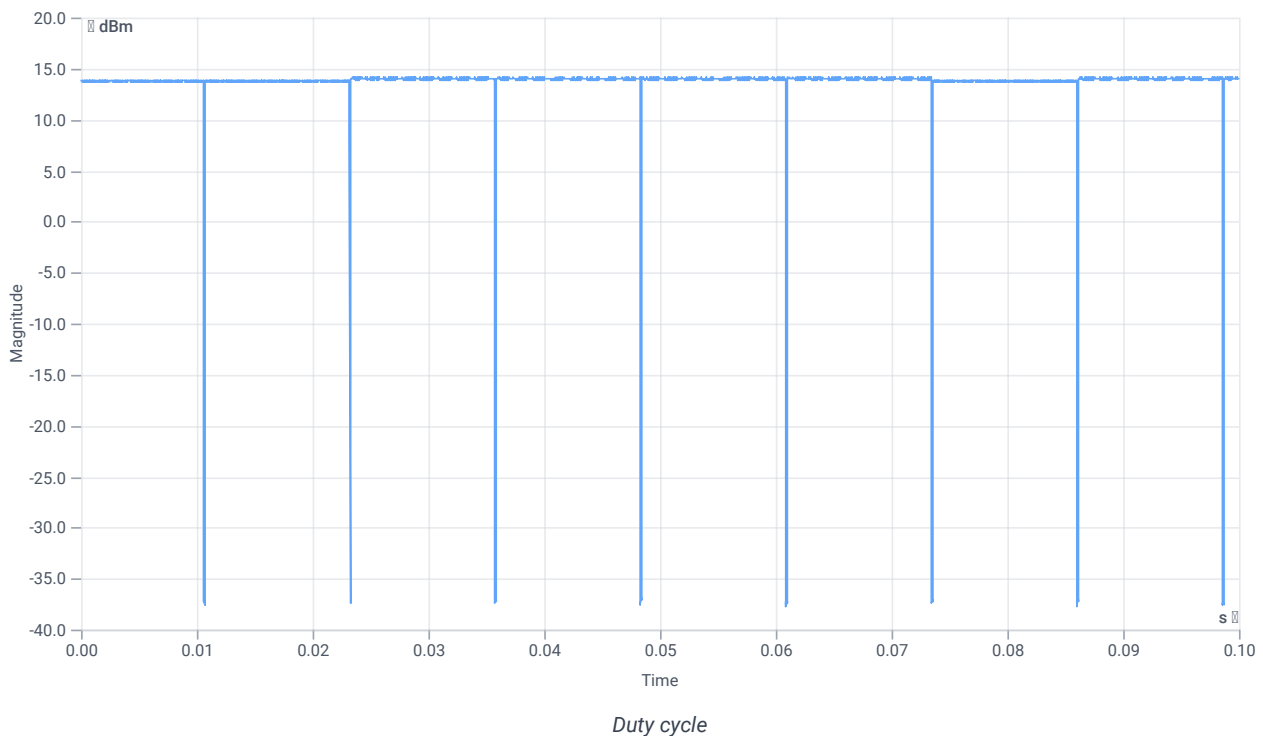
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 9.89 | dBm | INFO |
| Ref. Frequency | -- | -- | 2438.100 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

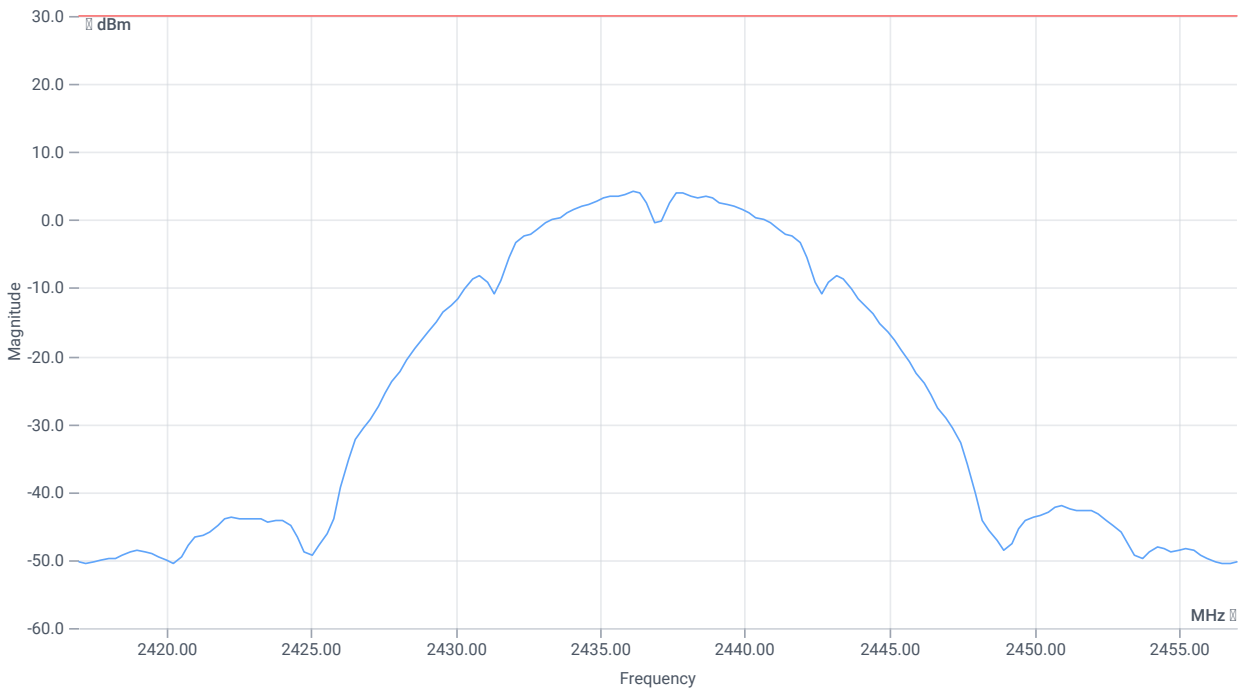
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:7 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.99 | -- | INFO |
| Duty Cycle max | -- | -- | 0.044 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.984 | -- | INFO |
| Duty Cycle min | -- | -- | 0.07 | dB | INFO |
| Max TX Burst Length | -- | -- | 12.425 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.2 | ms | INFO |



Avg output power SA DTS

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 19.89 13.81 25 |
| Start [MHz] Stop [MHz] | 2417.000 2457.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 500 100 160 SWE |



Avg output power SA DTS

RESULT (Channel power method)

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Avg output power uncorrected | -- | -- | 14.64 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.07 | dB | INFO |
| Avg power DC corrected | -- | 30 | 14.71 | dBm | PASS |

Verdict

PASS

FCC 15.247 # Avg output power SA DTS ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 15:12:17 |
| Ambit temp [°C] humidity [rel%] | 23.8 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.9.2.2.2 or .4 |
| Description | FCC 15.247 Avg output power SA DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2437 MHz

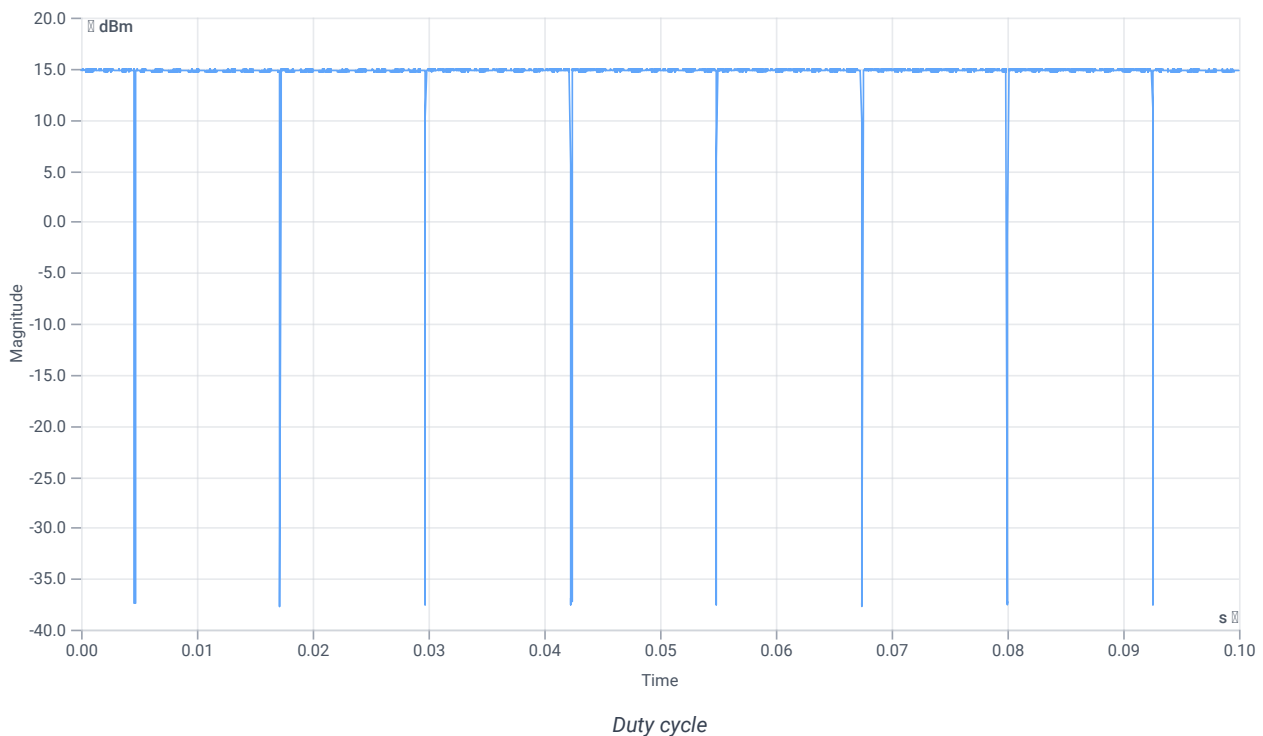
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 10.63 | dBm | INFO |
| Ref. Frequency | -- | -- | 2438.200 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

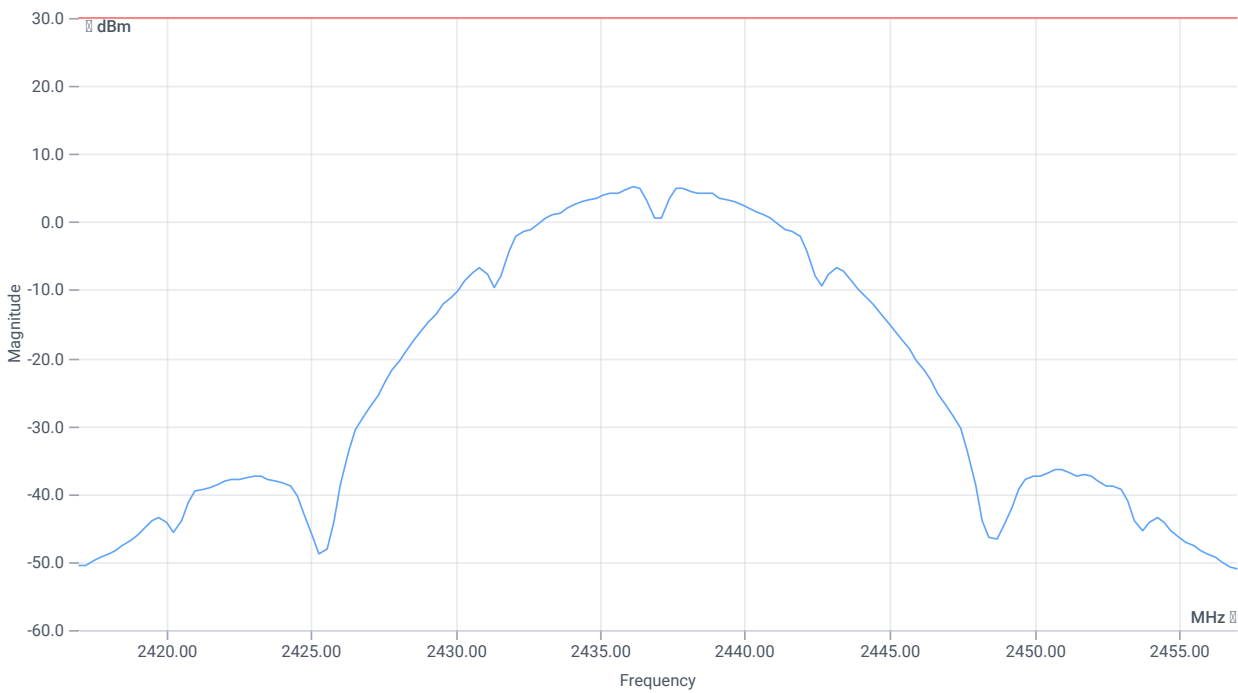
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:7 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.99 | -- | INFO |
| Duty Cycle max | -- | -- | 0.044 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.984 | -- | INFO |
| Duty Cycle min | -- | -- | 0.07 | dB | INFO |
| Max TX Burst Length | -- | -- | 12.425 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.2 | ms | INFO |



Avg output power SA DTS

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 20.63 13.81 25 |
| Start [MHz] Stop [MHz] | 2417.000 2457.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 500 100 160 SWE |



Avg output power SA DTS

RESULT (Channel power method)

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Avg output power uncorrected | -- | -- | 15.6 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.07 | dB | INFO |
| Avg power DC corrected | -- | 30 | 15.67 | dBm | PASS |

Verdict

PASS

FCC 15.247 # Avg output power SA DTS ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 15:22:07 |
| Ambit temp [°C] humidity [rel%] | 23.9 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.9.2.2.2 or .4 |
| Description | FCC 15.247 Avg output power SA DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2462 MHz

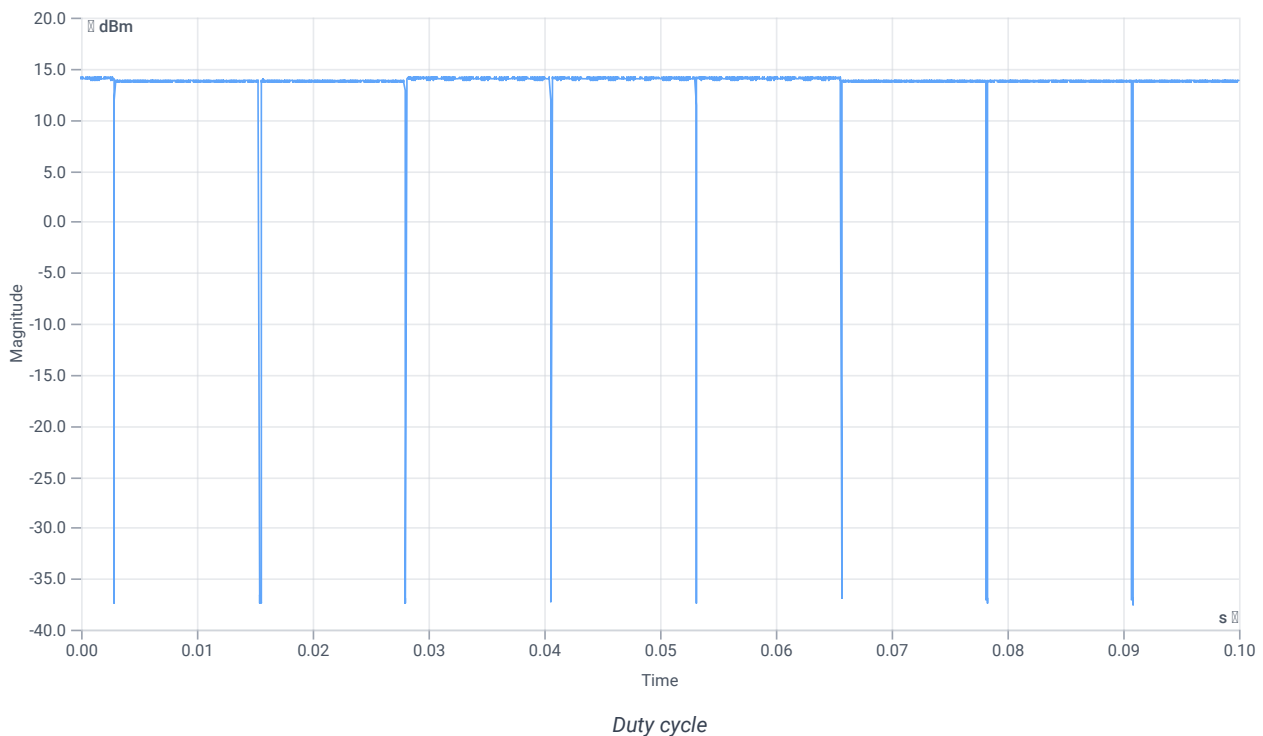
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 9.91 | dBm | INFO |
| Ref. Frequency | -- | -- | 2460.800 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

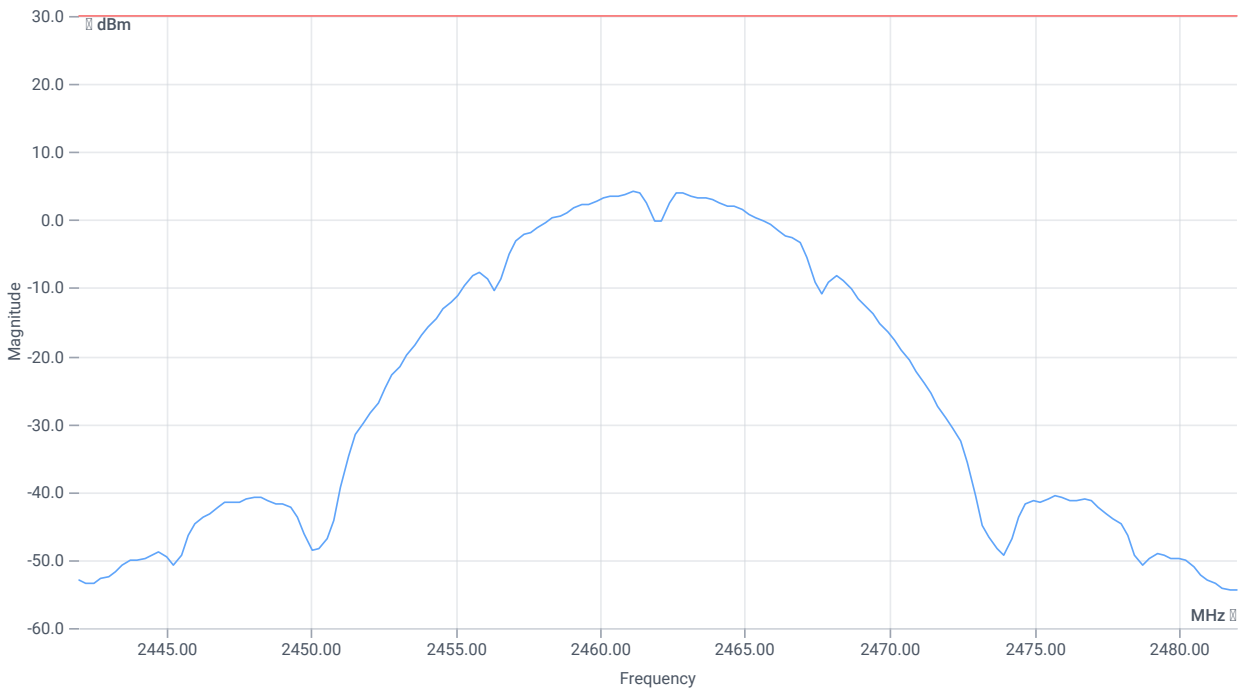
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:7 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.99 | -- | INFO |
| Duty Cycle max | -- | -- | 0.044 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.984 | -- | INFO |
| Duty Cycle min | -- | -- | 0.07 | dB | INFO |
| Max TX Burst Length | -- | -- | 12.425 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.2 | ms | INFO |



Avg output power SA DTS

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 19.91 13.94 20 |
| Start [MHz] Stop [MHz] | 2442.000 2482.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 500 100 160 SWE |



Avg output power SA DTS

RESULT (Channel power method)

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Avg output power uncorrected | -- | -- | 14.64 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.07 | dB | INFO |
| Avg power DC corrected | -- | 30 | 14.71 | dBm | PASS |

Verdict

PASS

FCC 15.247 # Avg output power SA DTS ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 15:31:11 |
| Ambit temp [°C] humidity [rel%] | 23.7 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.9.2.2.2 or .4 |
| Description | FCC 15.247 Avg output power SA DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2462 MHz

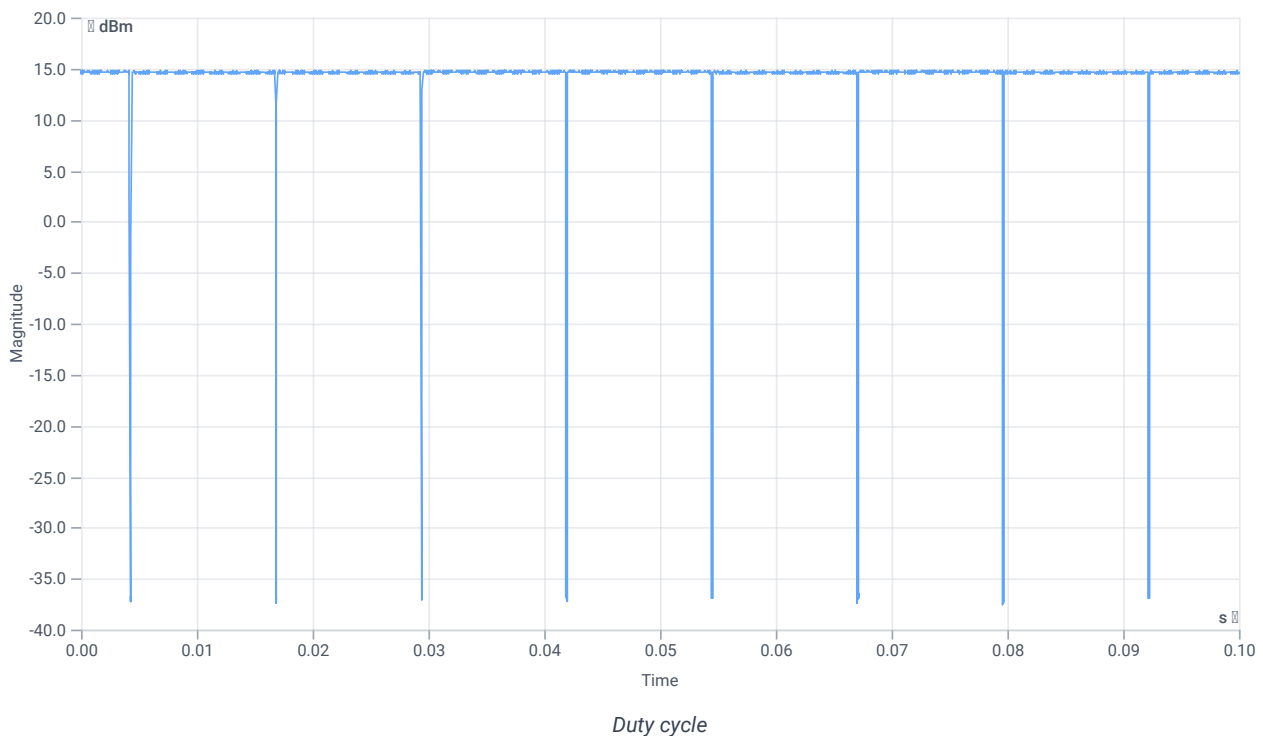
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 10.57 | dBm | INFO |
| Ref. Frequency | -- | -- | 2460.800 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

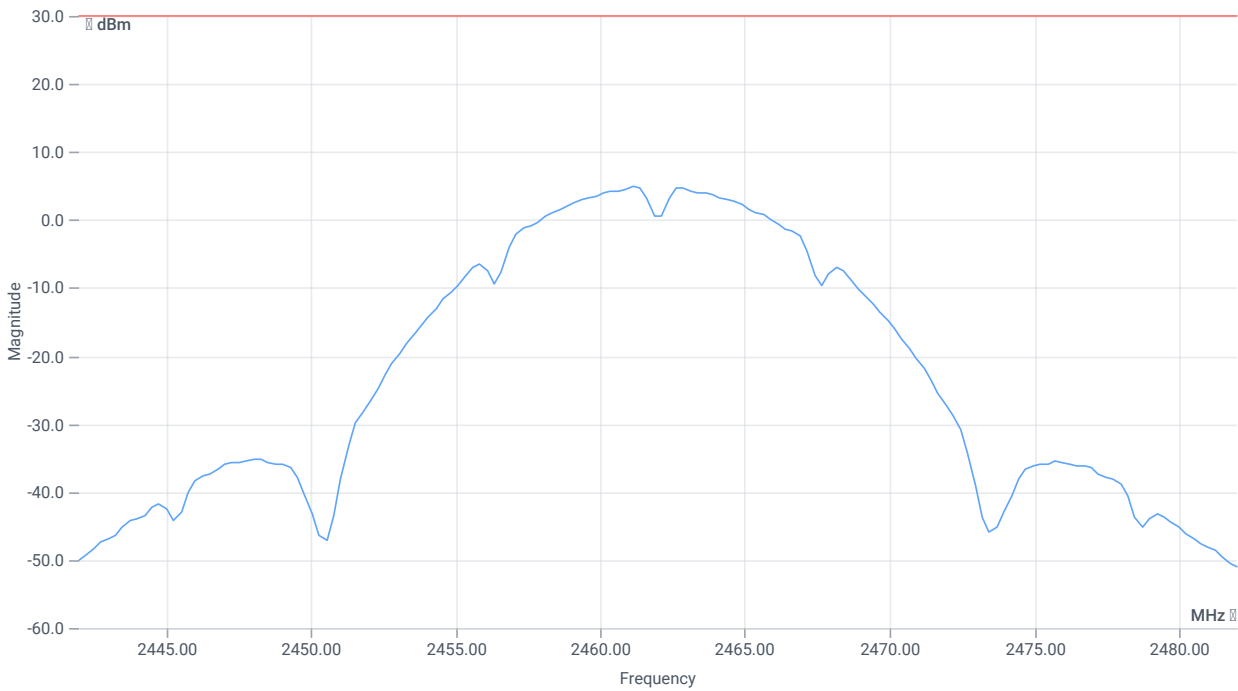
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:7 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.988 | -- | INFO |
| Duty Cycle max | -- | -- | 0.052 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.984 | -- | INFO |
| Duty Cycle min | -- | -- | 0.07 | dB | INFO |
| Max TX Burst Length | -- | -- | 12.4 | ms | INFO |
| Min Gap Length | -- | -- | 0.15 | ms | INFO |
| Max Gap Length | -- | -- | 0.2 | ms | INFO |



Avg output power SA DTS

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 20.57 13.94 25 |
| Start [MHz] Stop [MHz] | 2442.000 2482.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 500 100 160 SWE |



Avg output power SA DTS

RESULT (Channel power method)

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Avg output power uncorrected | -- | -- | 15.46 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.07 | dB | INFO |
| Avg power DC corrected | -- | 30 | 15.53 | dBm | PASS |

Verdict

PASS

FCC 15.247 # Avg output power SA DTS ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 15:42:26 |
| Ambit temp [°C] humidity [rel%] | 23.8 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.9.2.2.2 or .4 |
| Description | FCC 15.247 Avg output power SA DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2412 MHz

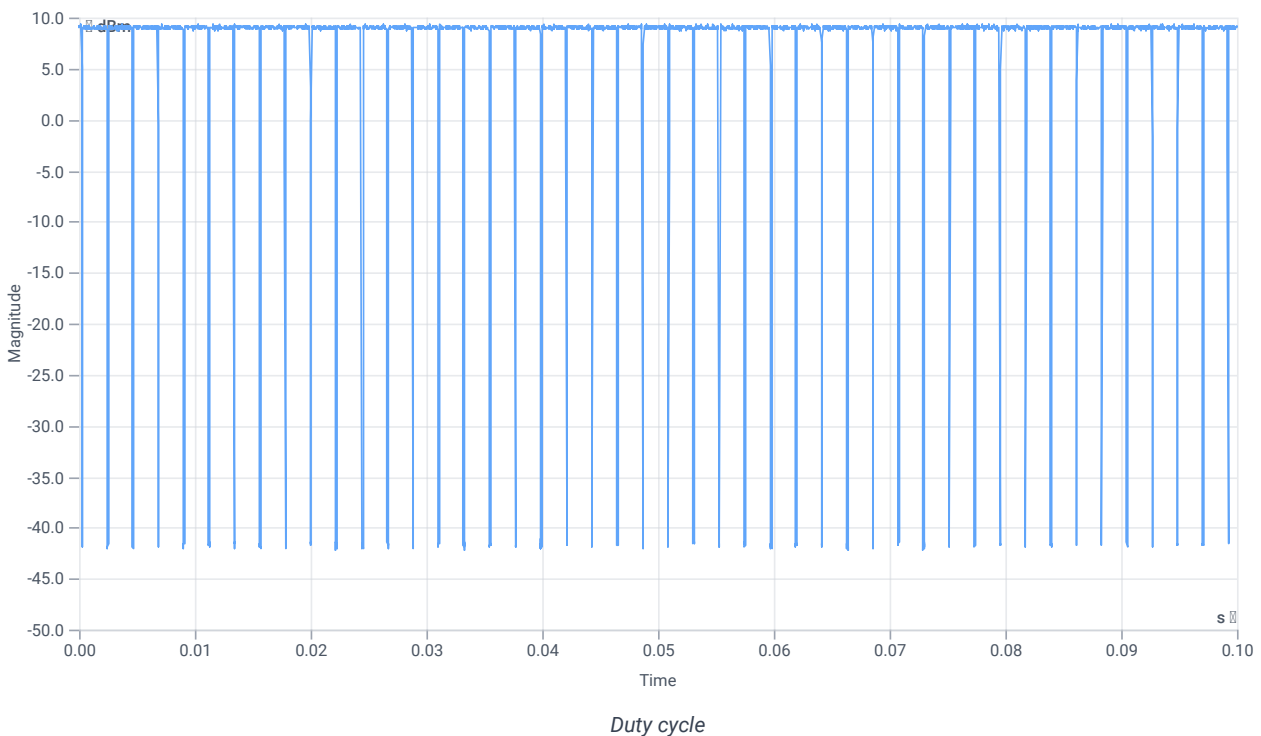
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 7.22 | dBm | INFO |
| Ref. Frequency | -- | -- | 2409.800 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

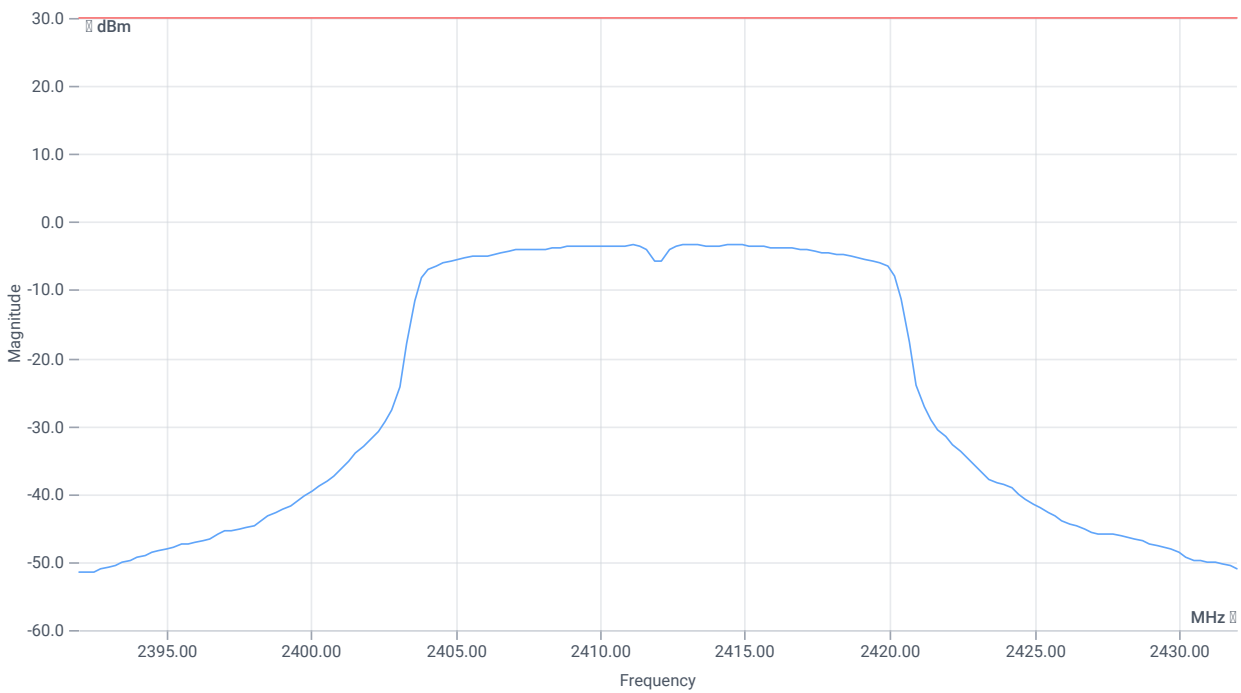
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:45 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.943 | -- | INFO |
| Duty Cycle max | -- | -- | 0.255 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.9 | -- | INFO |
| Duty Cycle min | -- | -- | 0.458 | dB | INFO |
| Max TX Burst Length | -- | -- | 2.05 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.225 | ms | INFO |



Avg output power SA DTS

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 17.22 13.65 20 |
| Start [MHz] Stop [MHz] | 2392.000 2432.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 500 100 160 SWE |



Avg output power SA DTS

RESULT (Channel power method)

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Avg output power uncorrected | -- | -- | 10.64 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.46 | dB | INFO |
| Avg power DC corrected | -- | 30 | 11.1 | dBm | PASS |

Verdict

PASS

FCC 15.247 # Avg output power SA DTS ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 15:51:32 |
| Ambit temp [°C] humidity [rel%] | 23.7 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.9.2.2.2 or .4 |
| Description | FCC 15.247 Avg output power SA DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2412 MHz

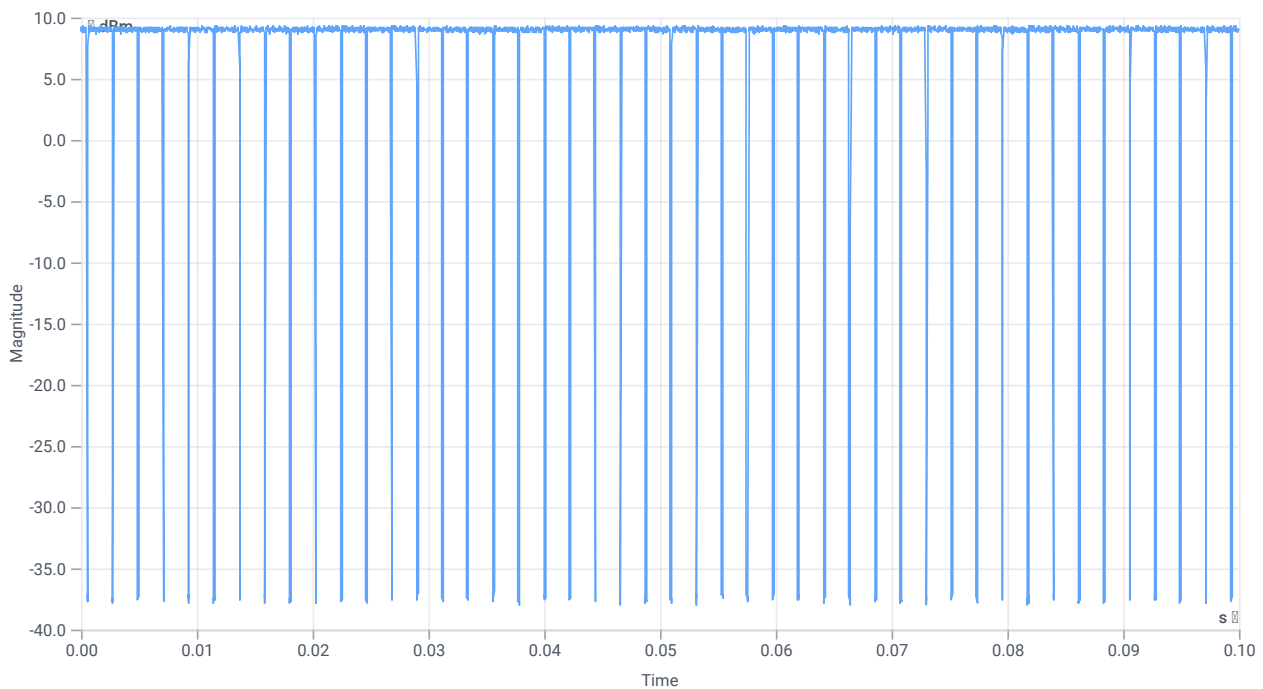
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 9.29 | dBm | INFO |
| Ref. Frequency | -- | -- | 2413.900 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:45 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.943 | -- | INFO |
| Duty Cycle max | -- | -- | 0.255 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.91 | -- | INFO |
| Duty Cycle min | -- | -- | 0.41 | dB | INFO |
| Max TX Burst Length | -- | -- | 2.05 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.2 | ms | INFO |

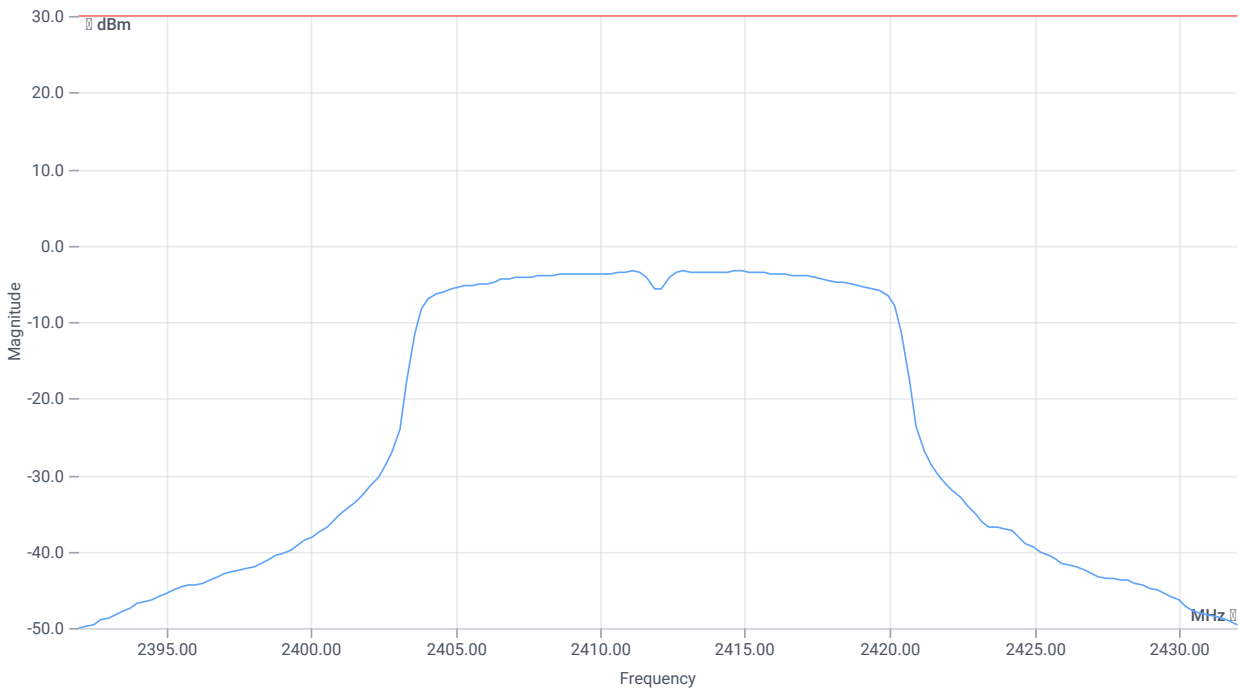


Duty cycle

Avg output power SA DTS

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 19.29 13.65 20 |
| Start [MHz] Stop [MHz] | 2392.000 2432.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 500 100 160 SWE |



Avg output power SA DTS

RESULT (Channel power method)

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Avg output power uncorrected | -- | -- | 10.65 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.41 | dB | INFO |
| Avg power DC corrected | -- | 30 | 11.06 | dBm | PASS |

Verdict

PASS

FCC 15.247 # Avg output power SA DTS ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 16:00:52 |
| Ambit temp [°C] humidity [rel%] | 23.7 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.9.2.2.2 or .4 |
| Description | FCC 15.247 Avg output power SA DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2437 MHz

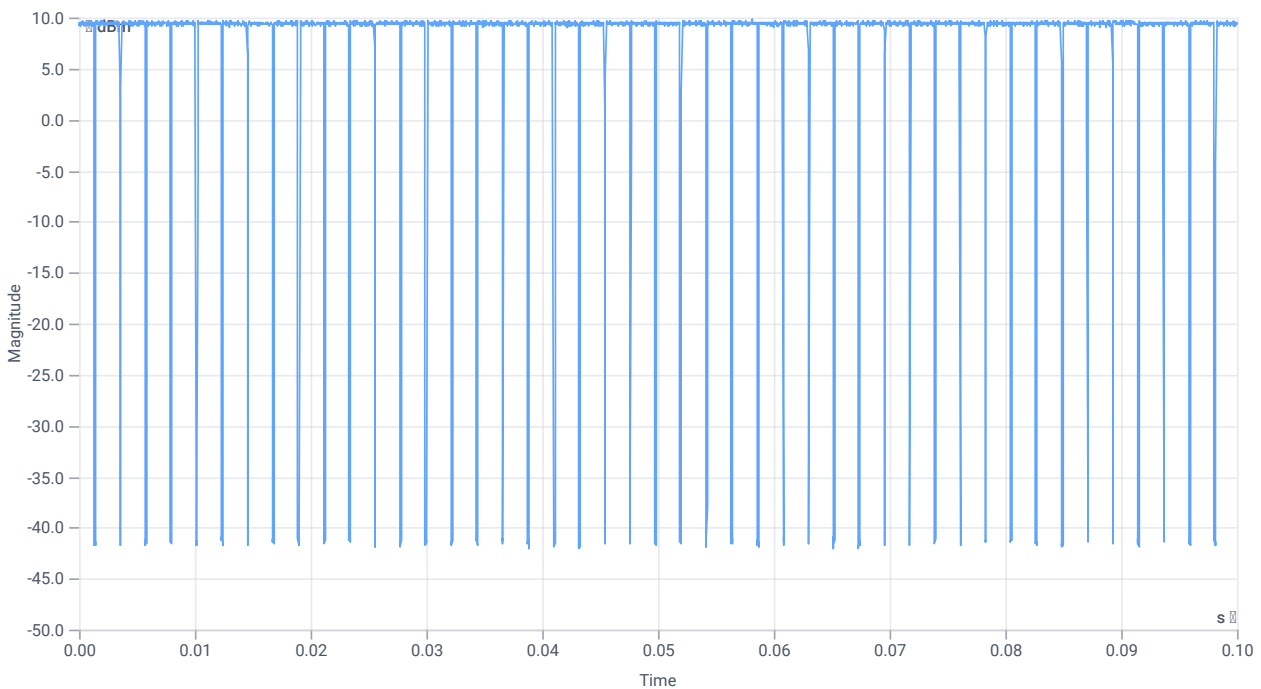
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.19 | dBm | INFO |
| Ref. Frequency | -- | -- | 2439.000 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

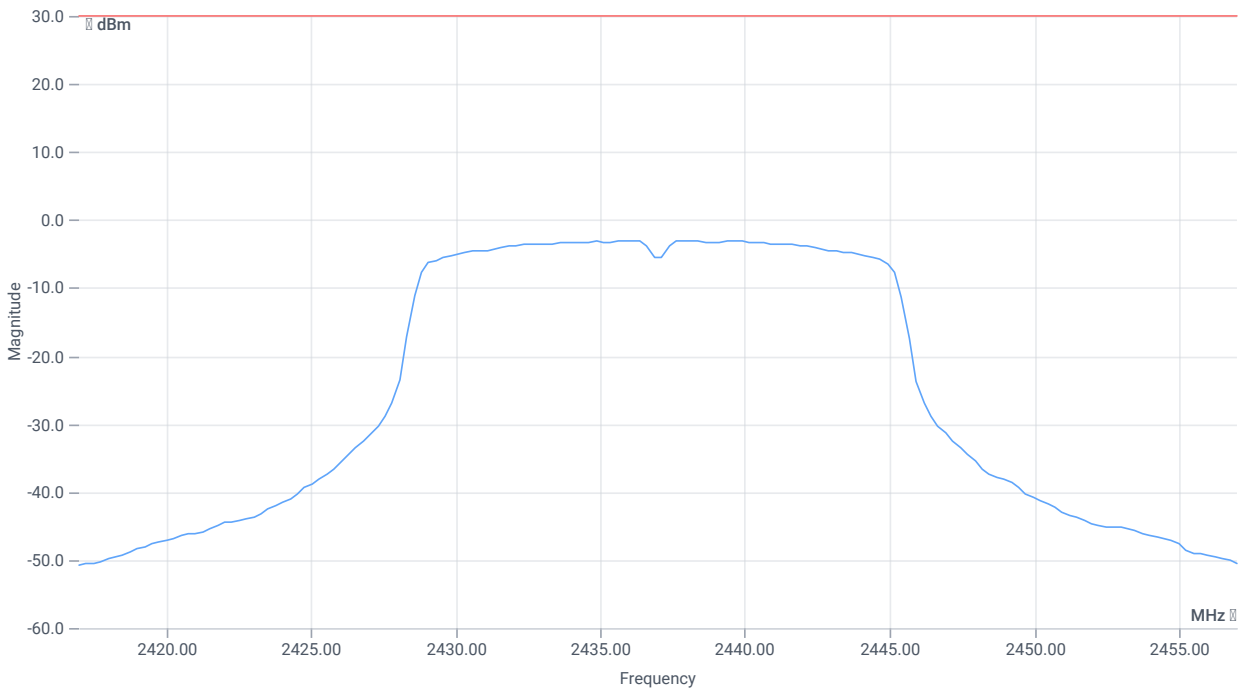
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:44 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.943 | -- | INFO |
| Duty Cycle max | -- | -- | 0.255 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.9 | -- | INFO |
| Duty Cycle min | -- | -- | 0.458 | dB | INFO |
| Max TX Burst Length | -- | -- | 2.05 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.225 | ms | INFO |



Avg output power SA DTS

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 18.19 13.81 20 |
| Start [MHz] Stop [MHz] | 2417.000 2457.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 500 100 160 SWE |



Avg output power SA DTS

RESULT (Channel power method)

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Avg output power uncorrected | -- | -- | 10.96 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.46 | dB | INFO |
| Avg power DC corrected | -- | 30 | 11.42 | dBm | PASS |

Verdict

PASS

FCC 15.247 # Avg output power SA DTS ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 16:09:57 |
| Ambit temp [°C] humidity [rel%] | 23.8 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.9.2.2.2 or .4 |
| Description | FCC 15.247 Avg output power SA DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2437 MHz

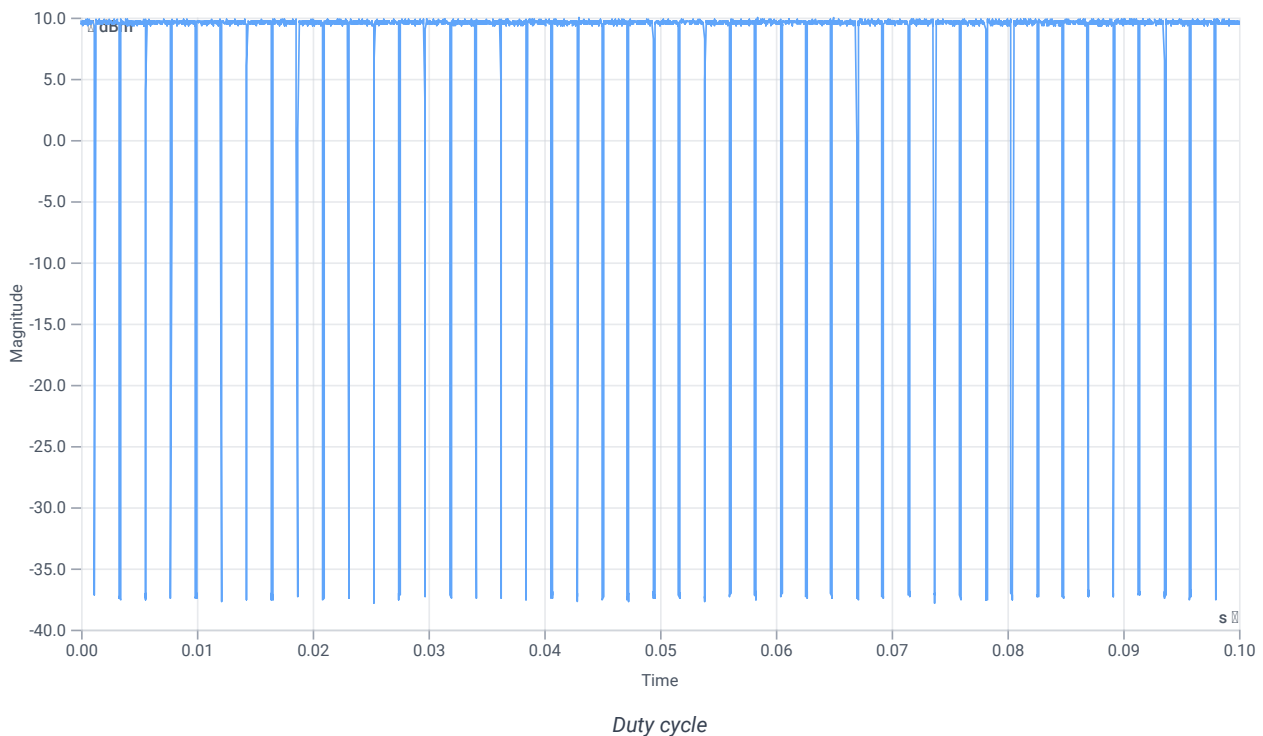
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 9.11 | dBm | INFO |
| Ref. Frequency | -- | -- | 2439.000 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

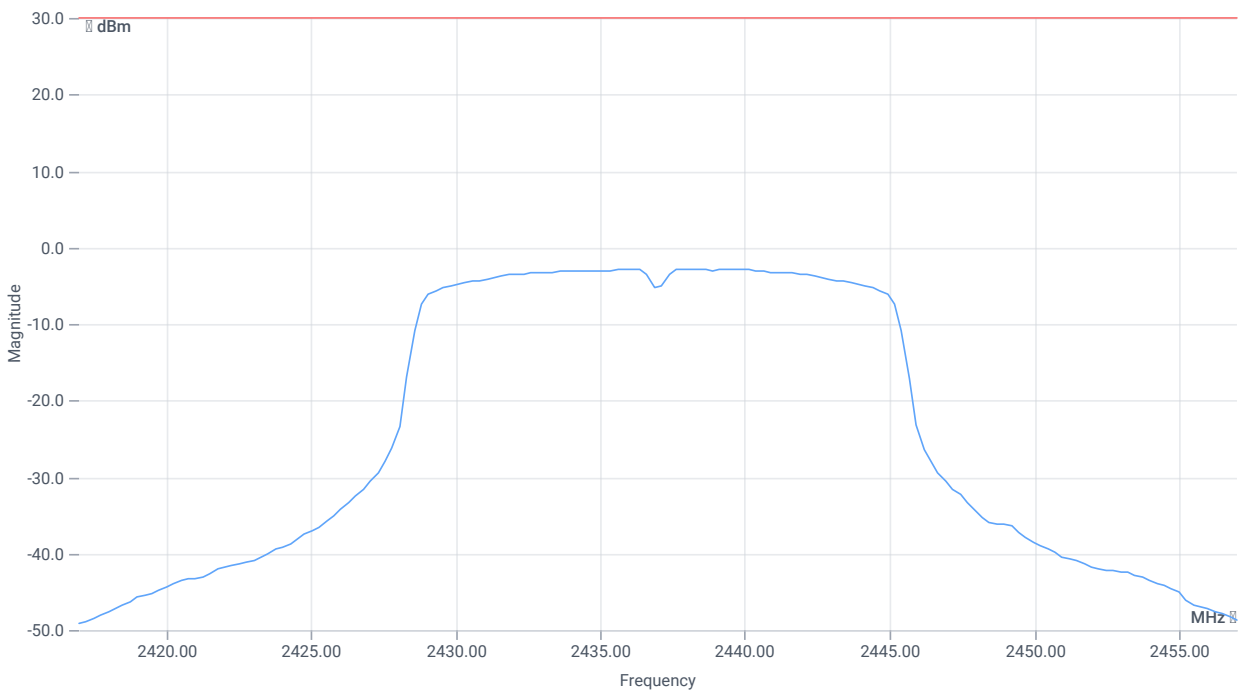
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:44 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.943 | -- | INFO |
| Duty Cycle max | -- | -- | 0.255 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.91 | -- | INFO |
| Duty Cycle min | -- | -- | 0.41 | dB | INFO |
| Max TX Burst Length | -- | -- | 2.05 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.2 | ms | INFO |



Avg output power SA DTS

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 19.11 13.81 20 |
| Start [MHz] Stop [MHz] | 2417.000 2457.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 500 100 160 SWE |



Avg output power SA DTS

RESULT (Channel power method)

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Avg output power uncorrected | -- | -- | 11.23 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.41 | dB | INFO |
| Avg power DC corrected | -- | 30 | 11.64 | dBm | PASS |

Verdict

PASS

FCC 15.247 # Avg output power SA DTS ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 16:19:31 |
| Ambit temp [°C] humidity [rel%] | 23.9 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.9.2.2.2 or .4 |
| Description | FCC 15.247 Avg output power SA DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2462 MHz

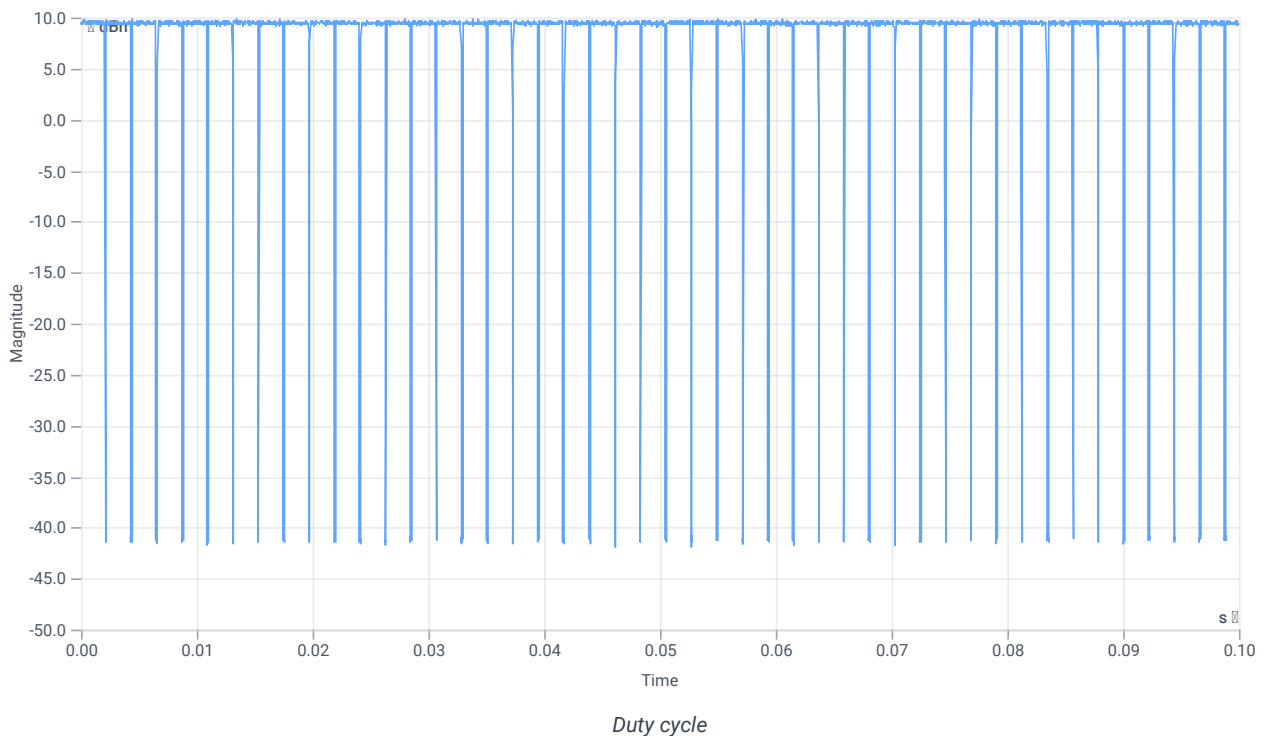
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.18 | dBm | INFO |
| Ref. Frequency | -- | -- | 2460.900 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

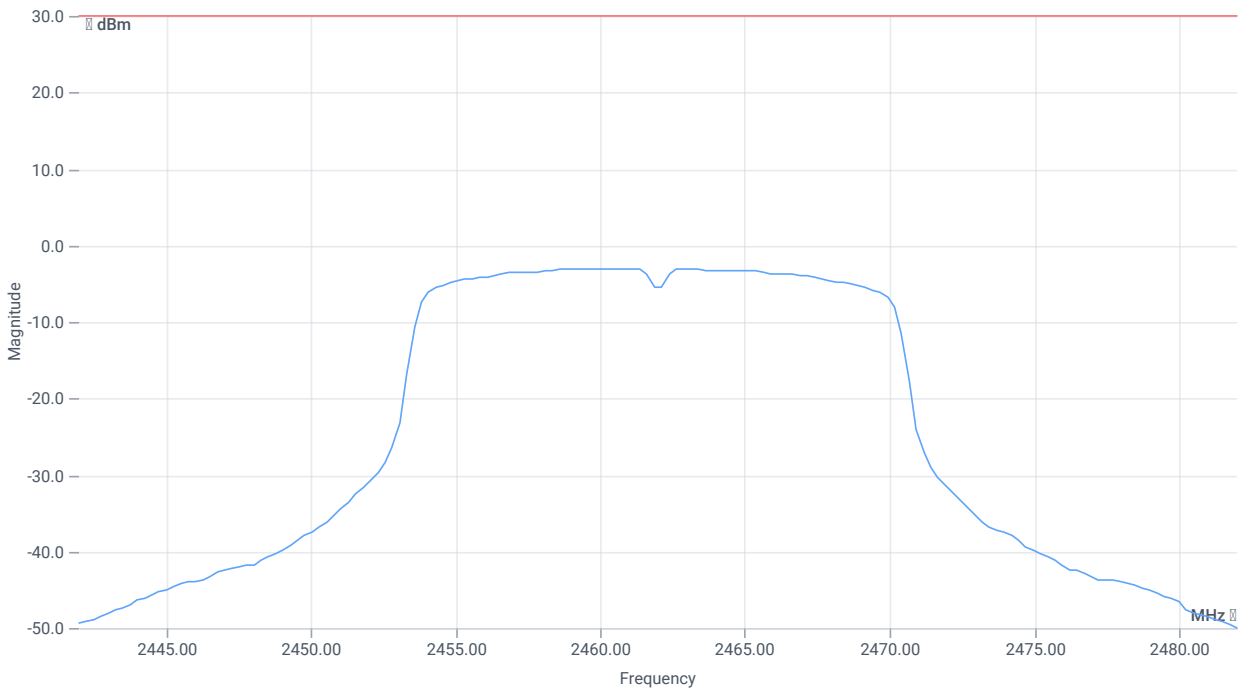
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:44 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.943 | -- | INFO |
| Duty Cycle max | -- | -- | 0.255 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.91 | -- | INFO |
| Duty Cycle min | -- | -- | 0.41 | dB | INFO |
| Max TX Burst Length | -- | -- | 2.05 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.2 | ms | INFO |



Avg output power SA DTS

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 18.18 13.94 20 |
| Start [MHz] Stop [MHz] | 2442.000 2482.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 500 100 160 SWE |



Avg output power SA DTS

RESULT (Channel power method)

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Avg output power uncorrected | -- | -- | 11 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.41 | dB | INFO |
| Avg power DC corrected | -- | 30 | 11.41 | dBm | PASS |

Verdict

PASS

FCC 15.247 # Avg output power SA DTS ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 16:28:37 |
| Ambit temp [°C] humidity [rel%] | 23.9 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.9.2.2.2 or .4 |
| Description | FCC 15.247 Avg output power SA DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2462 MHz

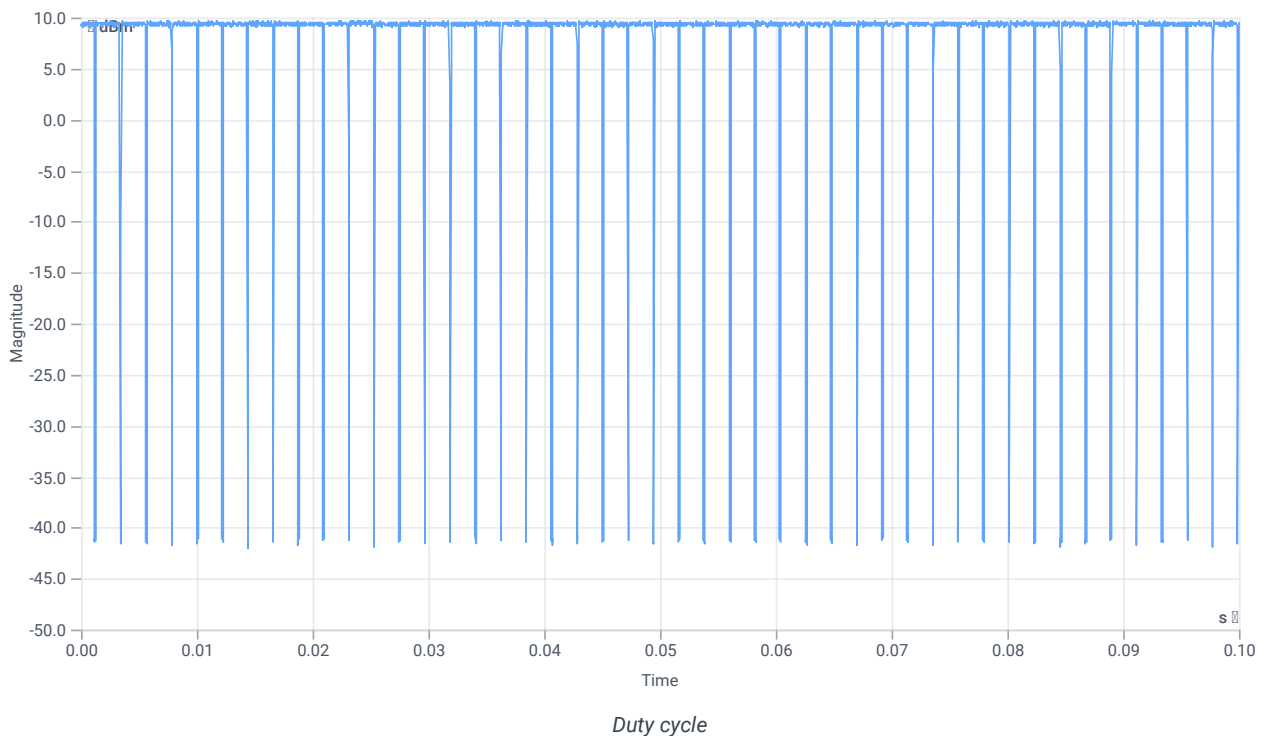
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.30 | dBm | INFO |
| Ref. Frequency | -- | -- | 2465.000 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

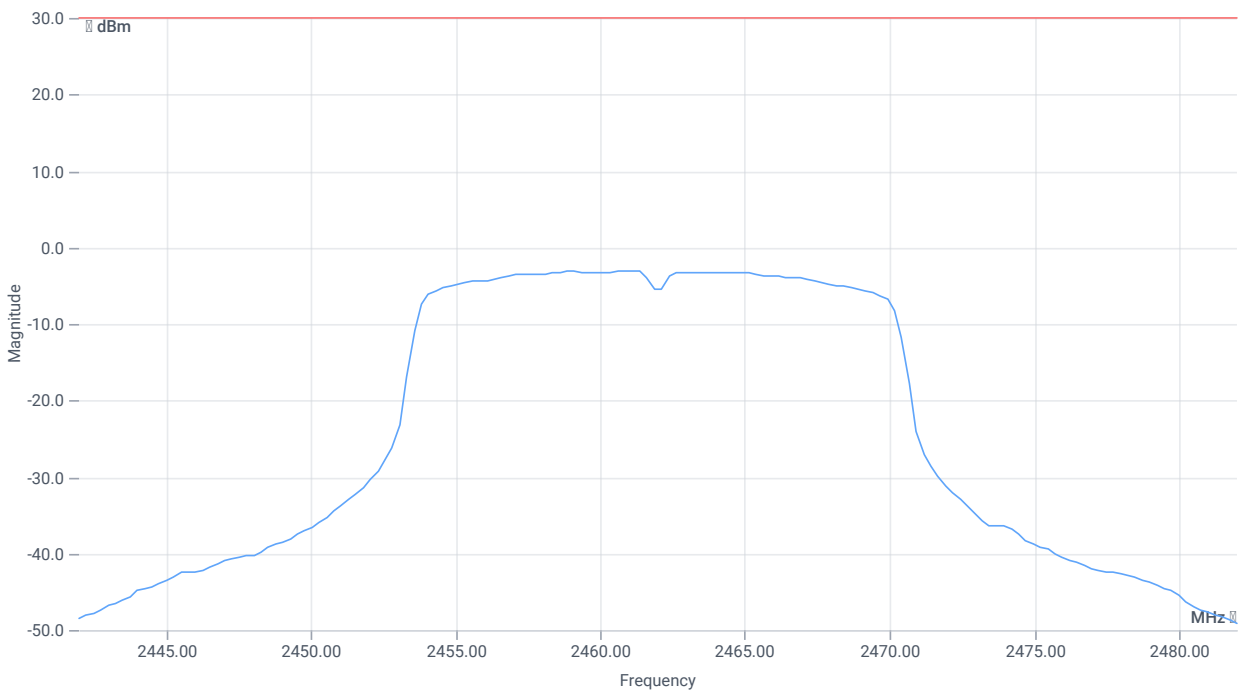
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:45 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.943 | -- | INFO |
| Duty Cycle max | -- | -- | 0.255 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.91 | -- | INFO |
| Duty Cycle min | -- | -- | 0.41 | dB | INFO |
| Max TX Burst Length | -- | -- | 2.05 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.2 | ms | INFO |



Avg output power SA DTS

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 18.30 13.94 20 |
| Start [MHz] Stop [MHz] | 2442.000 2482.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 500 100 160 SWE |



Avg output power SA DTS

RESULT (Channel power method)

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Avg output power uncorrected | -- | -- | 10.9 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.41 | dB | INFO |
| Avg power DC corrected | -- | 30 | 11.31 | dBm | PASS |

Verdict

PASS

FCC 15.247 # Avg output power SA DTS ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 17:14:03 |
| Ambit temp [°C] humidity [rel%] | 23.9 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.9.2.2.2 or .4 |
| Description | FCC 15.247 Avg output power SA DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2462 MHz

RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.29 | dBm | INFO |
| Ref. Frequency | -- | -- | 2456.410 | MHz | INFO |

Evaluation max. Duty Cycle

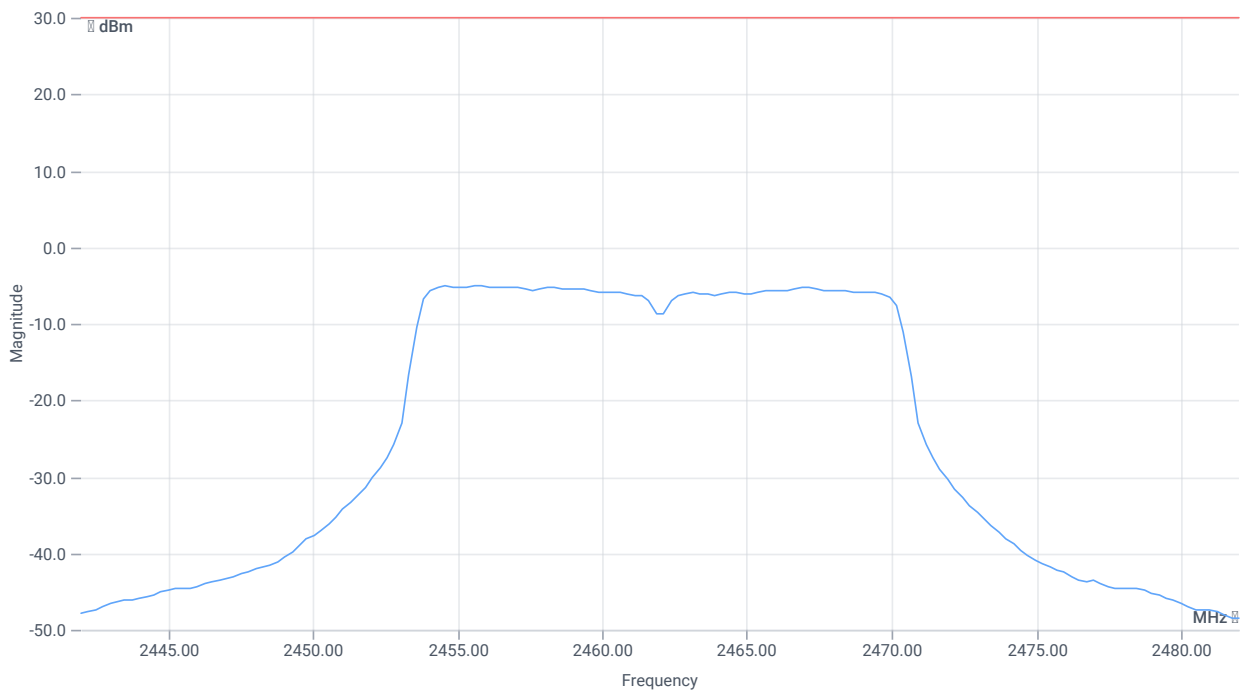
Duty Cycle evaluation

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min | -- | -- | 0 | dB | DC > 98% defined |

Avg output power SA DTS

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 18.29 13.94 20 |
| Start [MHz] Stop [MHz] | 2442.000 2482.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 500 100 160 SWE |



Avg output power SA DTS

RESULT (Channel power method)

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Avg output power uncorrected | -- | -- | 9.16 | dBm | INFO |
| Duty cycle correction | -- | -- | 0 | dB | INFO |
| Avg power DC corrected | -- | 30 | 9.16 | dBm | PASS |

Verdict

PASS

FCC 15.247 # Avg output power SA DTS ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 17:08:12 |
| Ambit temp [°C] humidity [rel%] | 23.9 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.9.2.2.2 or .4 |
| Description | FCC 15.247 Avg output power SA DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2462 MHz

RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.12 | dBm | INFO |
| Ref. Frequency | -- | -- | 2458.100 | MHz | INFO |

Evaluation max. Duty Cycle

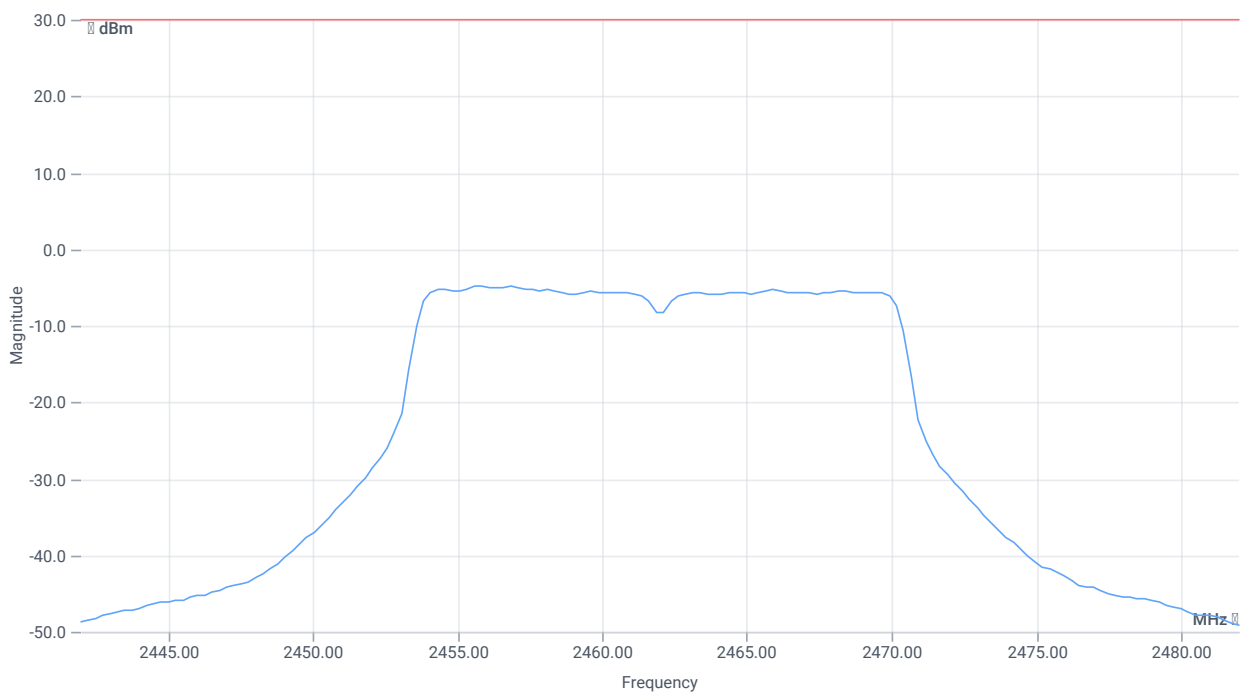
Duty Cycle evaluation

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min | -- | -- | 0 | dB | DC > 98% defined |

Avg output power SA DTS

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 18.12 13.94 20 |
| Start [MHz] Stop [MHz] | 2442.000 2482.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 500 100 160 SWE |



Avg output power SA DTS

RESULT (Channel power method)

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Avg output power uncorrected | -- | -- | 9.29 | dBm | INFO |
| Duty cycle correction | -- | -- | 0 | dB | INFO |
| Avg power DC corrected | -- | 30 | 9.29 | dBm | PASS |

Verdict

PASS

FCC 15.247 # Avg output power SA DTS ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 16:58:55 |
| Ambit temp [°C] humidity [rel%] | 23.9 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.9.2.2.2 or .4 |
| Description | FCC 15.247 Avg output power SA DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2437 MHz

RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.14 | dBm | INFO |
| Ref. Frequency | -- | -- | 2444.290 | MHz | INFO |

Evaluation max. Duty Cycle

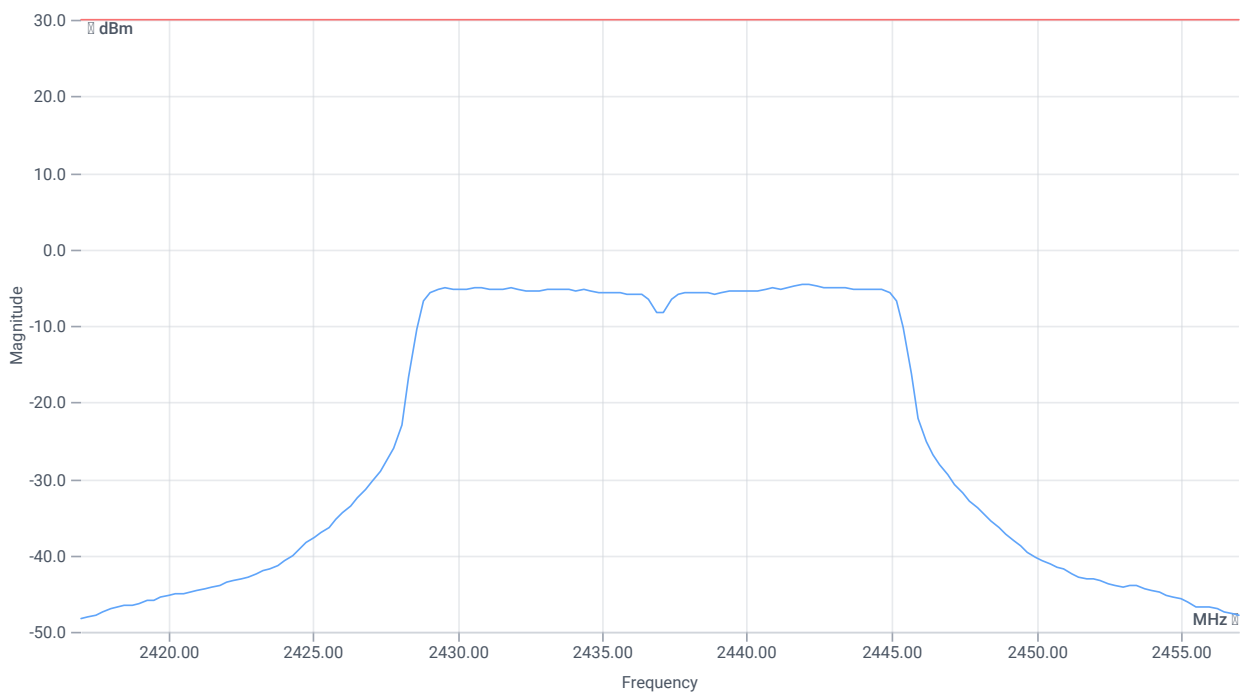
Duty Cycle evaluation

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min | -- | -- | 0 | dB | DC > 98% defined |

Avg output power SA DTS

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 18.14 13.81 20 |
| Start [MHz] Stop [MHz] | 2417.000 2457.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 500 100 160 SWE |



Avg output power SA DTS

RESULT (Channel power method)

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Avg output power uncorrected | -- | -- | 9.51 | dBm | INFO |
| Duty cycle correction | -- | -- | 0 | dB | INFO |
| Avg power DC corrected | -- | 30 | 9.51 | dBm | PASS |

Verdict

PASS

FCC 15.247 # Avg output power SA DTS ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 16:53:01 |
| Ambit temp [°C] humidity [rel%] | 24.0 39 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.9.2.2.2 or .4 |
| Description | FCC 15.247 Avg output power SA DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2437 MHz

RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 7.61 | dBm | INFO |
| Ref. Frequency | -- | -- | 2442.190 | MHz | INFO |

Evaluation max. Duty Cycle

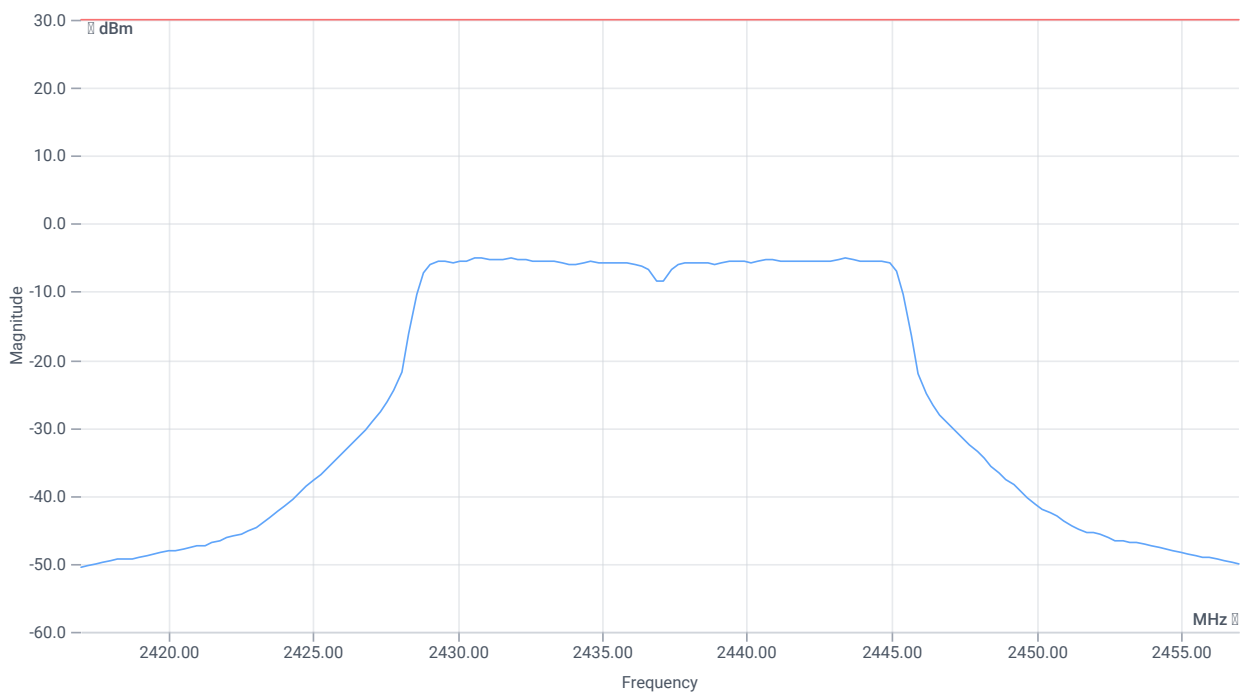
Duty Cycle evaluation

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min | -- | -- | 0 | dB | DC > 98% defined |

Avg output power SA DTS

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 17.61 13.81 20 |
| Start [MHz] Stop [MHz] | 2417.000 2457.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 500 100 160 SWE |



Avg output power SA DTS

RESULT (Channel power method)

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Avg output power uncorrected | -- | -- | 9.28 | dBm | INFO |
| Duty cycle correction | -- | -- | 0 | dB | INFO |
| Avg power DC corrected | -- | 30 | 9.28 | dBm | PASS |

Verdict

PASS

FCC 15.247 # Avg output power SA DTS ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 16:46:13 |
| Ambit temp [°C] humidity [rel%] | 24.0 39 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.9.2.2.2 or .4 |
| Description | FCC 15.247 Avg output power SA DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2412 MHz

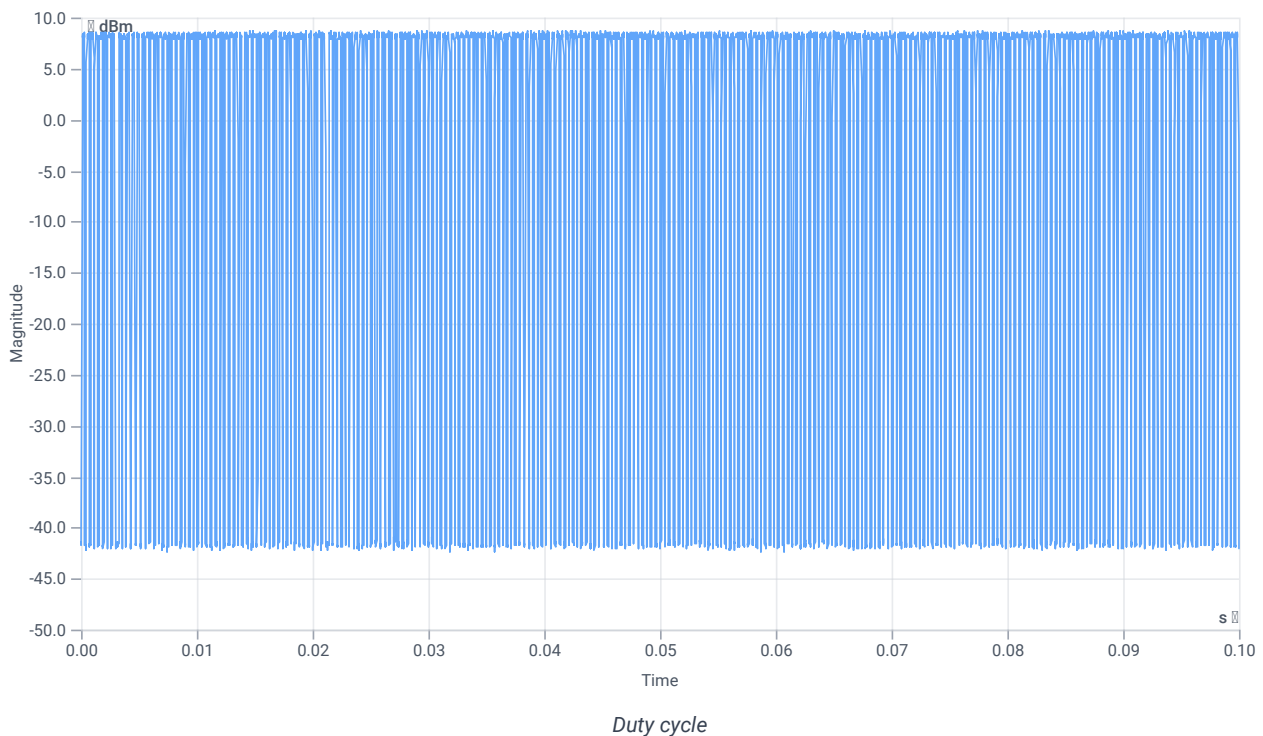
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.30 | dBm | INFO |
| Ref. Frequency | -- | -- | 2415.300 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

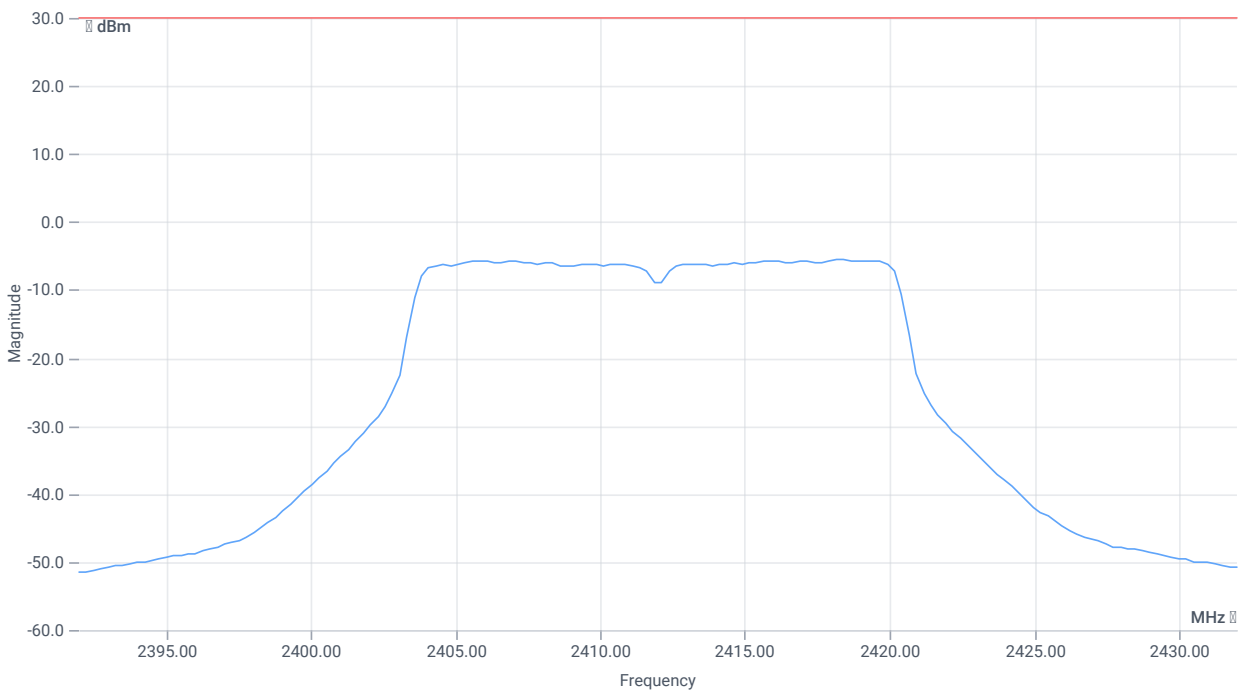
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:261 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.643 | -- | INFO |
| Duty Cycle max | -- | -- | 1.918 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.333 | -- | INFO |
| Duty Cycle min | -- | -- | 4.776 | dB | INFO |
| Max TX Burst Length | -- | -- | 0.225 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.4 | ms | INFO |



Avg output power SA DTS

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 18.30 13.65 20 |
| Start [MHz] Stop [MHz] | 2392.000 2432.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 500 100 160 SWE |



Avg output power SA DTS

RESULT (Channel power method)

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Avg output power uncorrected | -- | -- | 8.75 | dBm | INFO |
| Duty cycle correction | -- | -- | 4.78 | dB | INFO |
| Avg power DC corrected | -- | 30 | 13.53 | dBm | PASS |

Verdict

PASS

FCC 15.247 # Avg output power SA DTS ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 16:44:51 |
| Ambit temp [°C] humidity [rel%] | 24.0 39 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.9.2.2.2 or .4 |
| Description | FCC 15.247 Avg output power SA DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2412 MHz

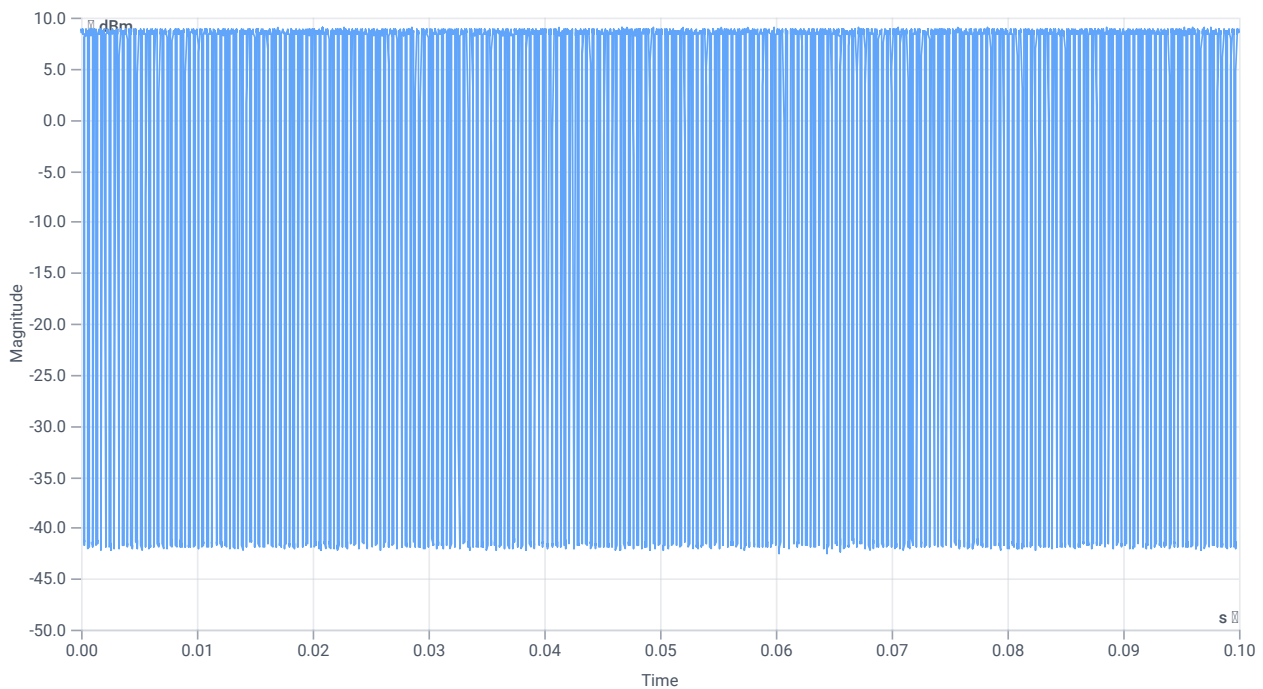
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 7.74 | dBm | INFO |
| Ref. Frequency | -- | -- | 2406.610 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

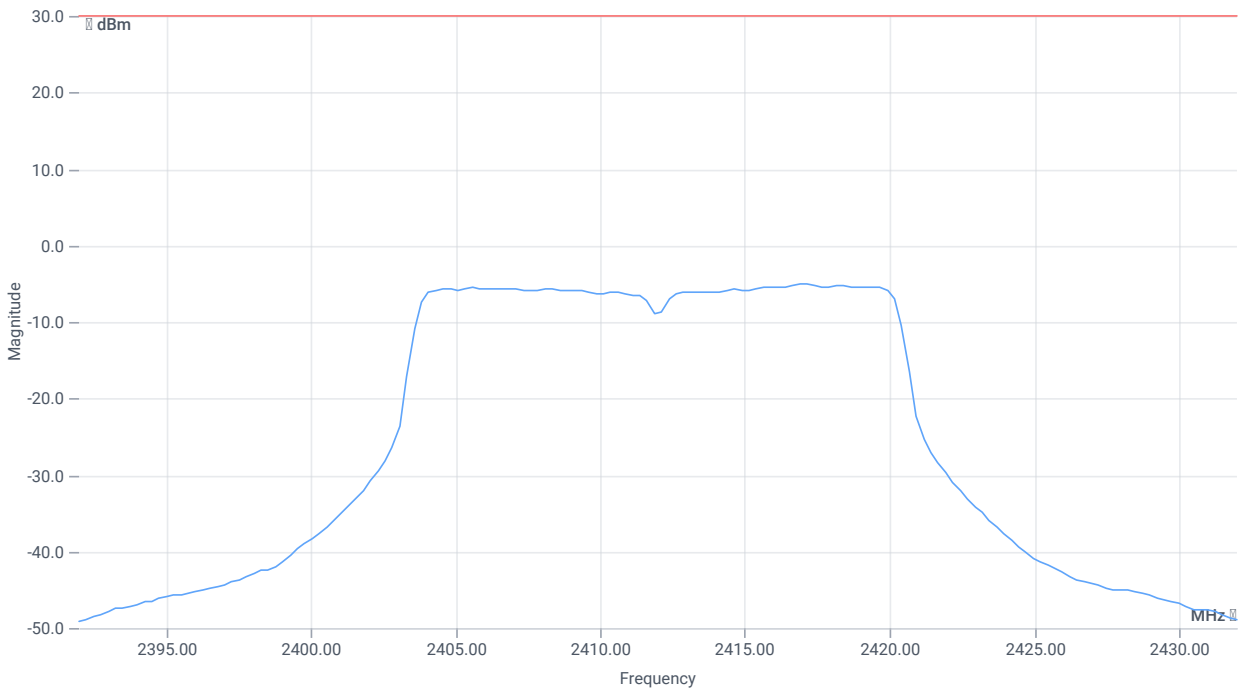
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:265 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.643 | -- | INFO |
| Duty Cycle max | -- | -- | 1.918 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.471 | -- | INFO |
| Duty Cycle min | -- | -- | 3.27 | dB | INFO |
| Max TX Burst Length | -- | -- | 0.225 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.225 | ms | INFO |



Avg output power SA DTS

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 17.74 13.65 20 |
| Start [MHz] Stop [MHz] | 2392.000 2432.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 500 100 160 SWE |



Avg output power SA DTS

RESULT (Channel power method)

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Avg output power uncorrected | -- | -- | 9.07 | dBm | INFO |
| Duty cycle correction | -- | -- | 3.27 | dB | INFO |
| Avg power DC corrected | -- | 30 | 12.34 | dBm | PASS |

Verdict

PASS

FCC 15.247 # Avg psd DTS ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 14:34:54 |
| Ambit temp [°C] humidity [rel%] | 23.6 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.10.5 or.3 |
| Description | FCC 15.247 Avg psd DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2412 MHz

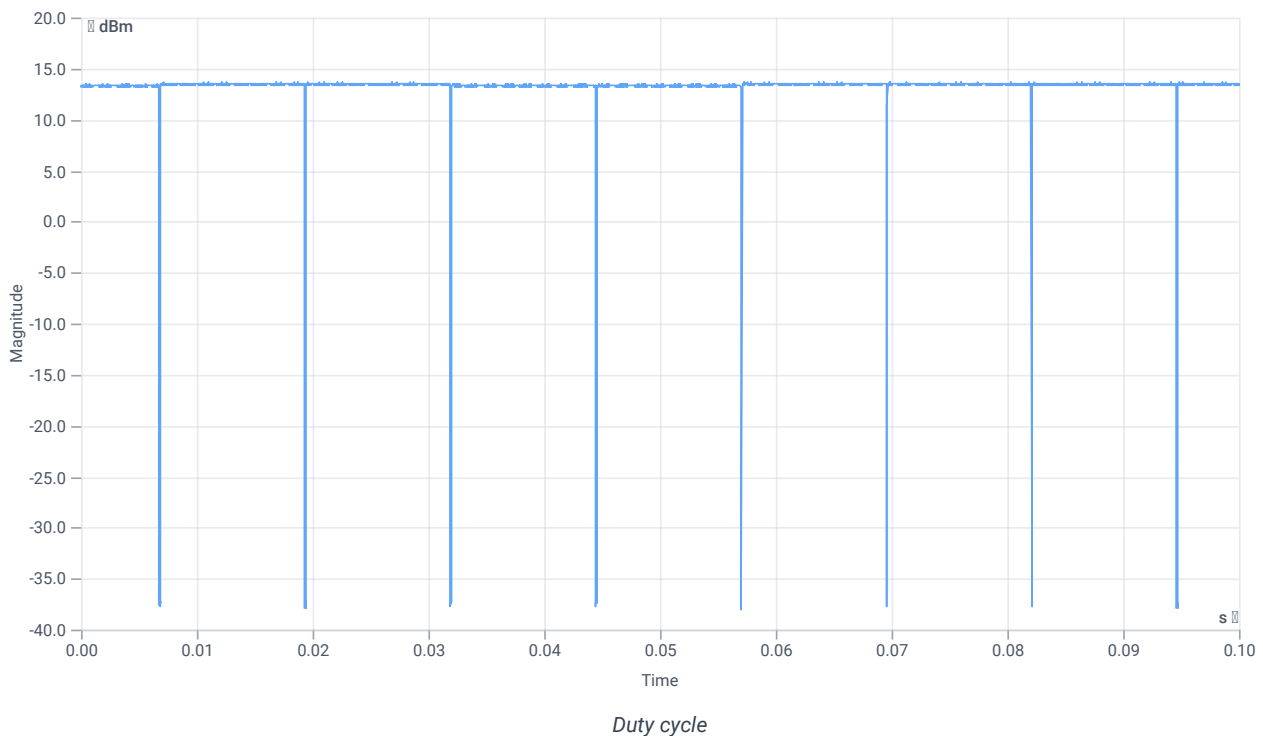
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 9.40 | dBm | INFO |
| Ref. Frequency | -- | -- | 2413.100 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

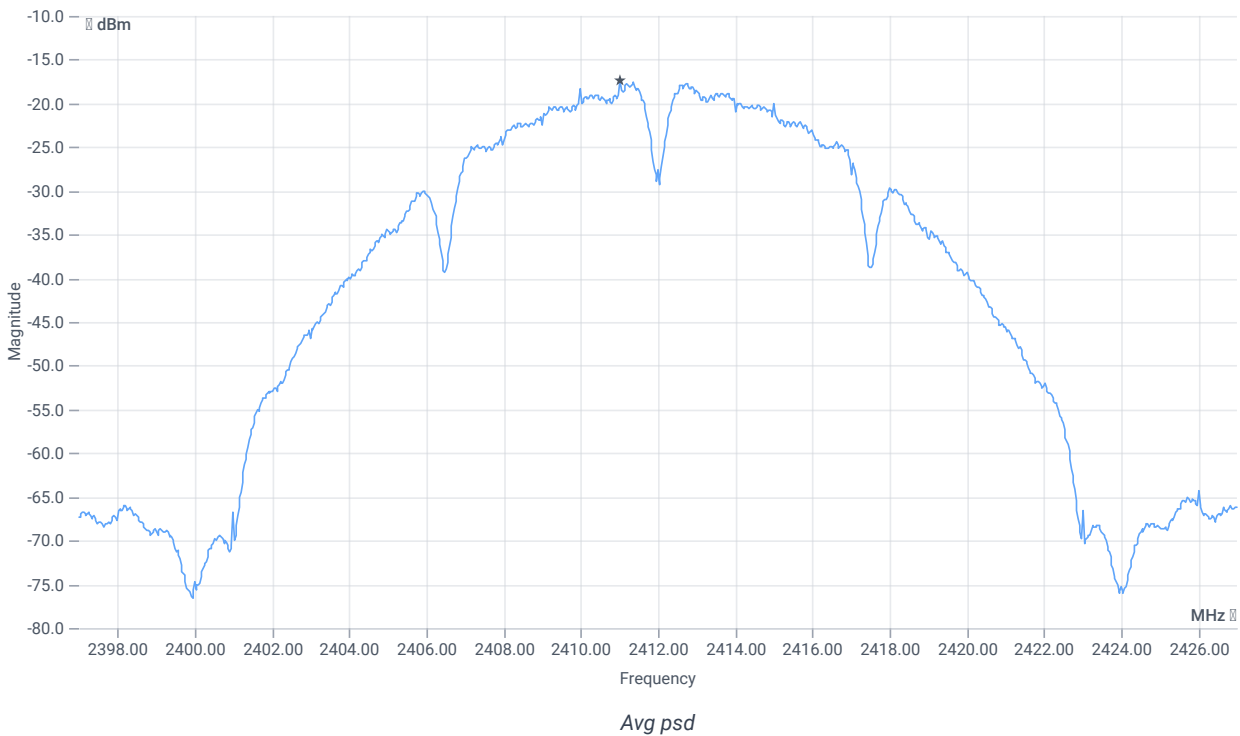
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:7 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.99 | -- | INFO |
| Duty Cycle max | -- | -- | 0.044 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.988 | -- | INFO |
| Duty Cycle min | -- | -- | 0.052 | dB | INFO |
| Max TX Burst Length | -- | -- | 12.425 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.15 | ms | INFO |



Avg. psd

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 14.40 13.65 20 |
| Start [MHz] Stop [MHz] | 2397.000 2427.000 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 334 100 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------|-------------|-------------|----------|----------|---------|
| Avg psd uncorrected | -- | -- | -17.29 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.05 | dB | INFO |
| Avg psd DC corrected | -- | 8 | -17.24 | dBm/3kHz | PASS |

Verdict

PASS

FCC 15.247 # Avg psd DTS ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 14:44:06 |
| Ambit temp [°C] humidity [rel%] | 23.7 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.10.5 or.3 |
| Description | FCC 15.247 Avg psd DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2412 MHz

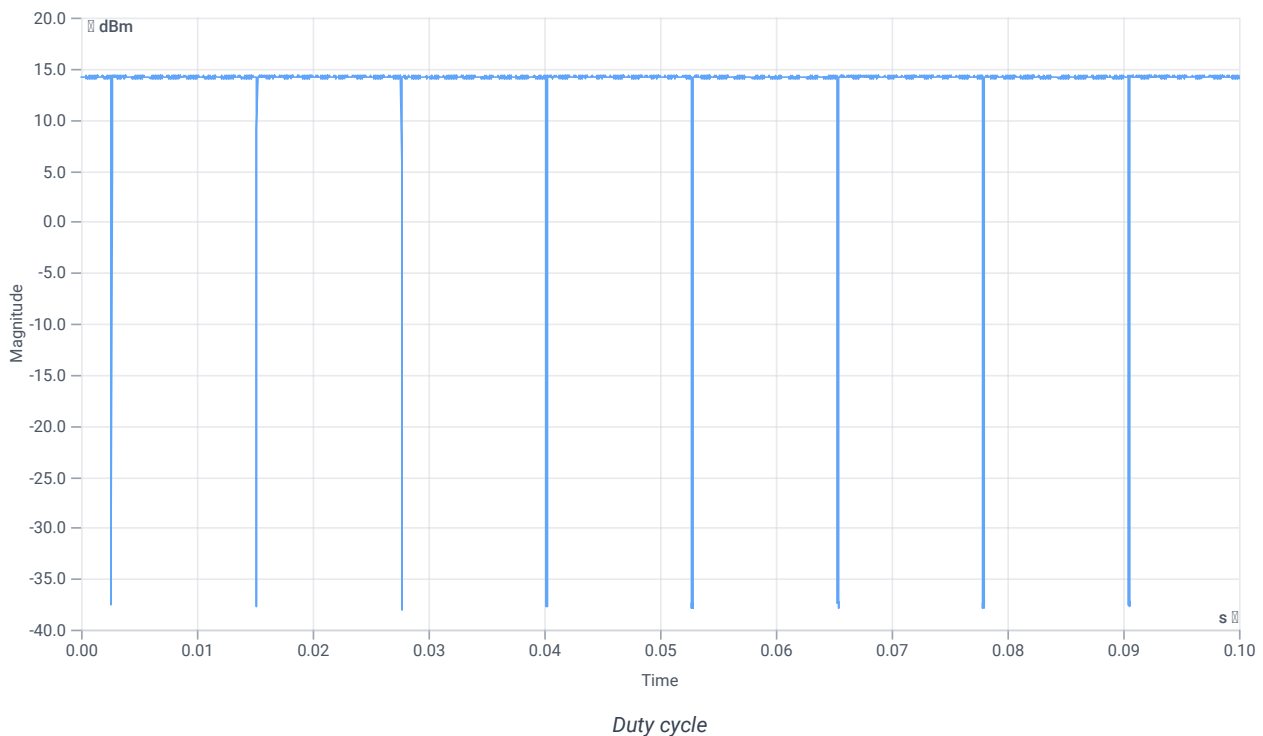
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 10.05 | dBm | INFO |
| Ref. Frequency | -- | -- | 2413.200 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

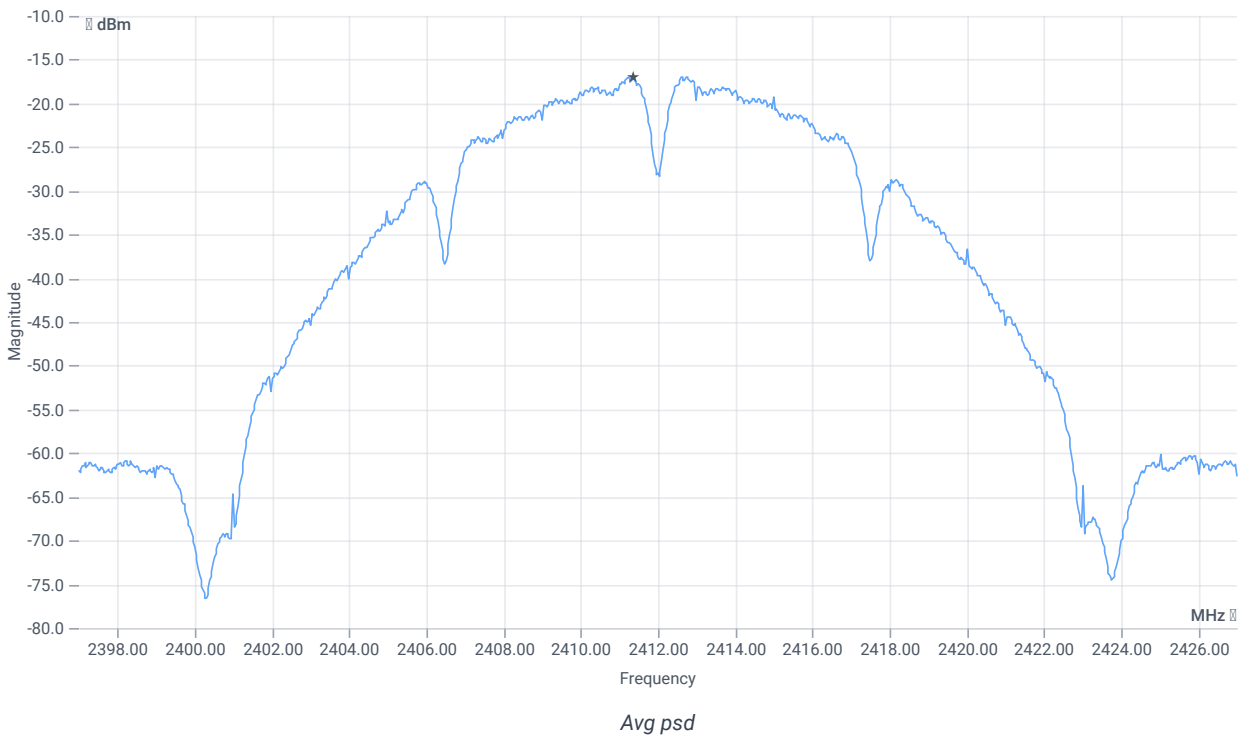
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:7 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.99 | -- | INFO |
| Duty Cycle max | -- | -- | 0.044 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.984 | -- | INFO |
| Duty Cycle min | -- | -- | 0.07 | dB | INFO |
| Max TX Burst Length | -- | -- | 12.425 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.2 | ms | INFO |



Avg. psd

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 15.05 13.65 20 |
| Start [MHz] Stop [MHz] | 2397.000 2427.000 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 334 100 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------|-------------|-------------|----------|----------|---------|
| Avg psd uncorrected | -- | -- | -16.94 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.07 | dB | INFO |
| Avg psd DC corrected | -- | 8 | -16.87 | dBm/3kHz | PASS |

Verdict

PASS

FCC 15.247 # Avg psd DTS ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 14:55:20 |
| Ambit temp [°C] humidity [rel%] | 23.7 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.10.5 or.3 |
| Description | FCC 15.247 Avg psd DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2437 MHz

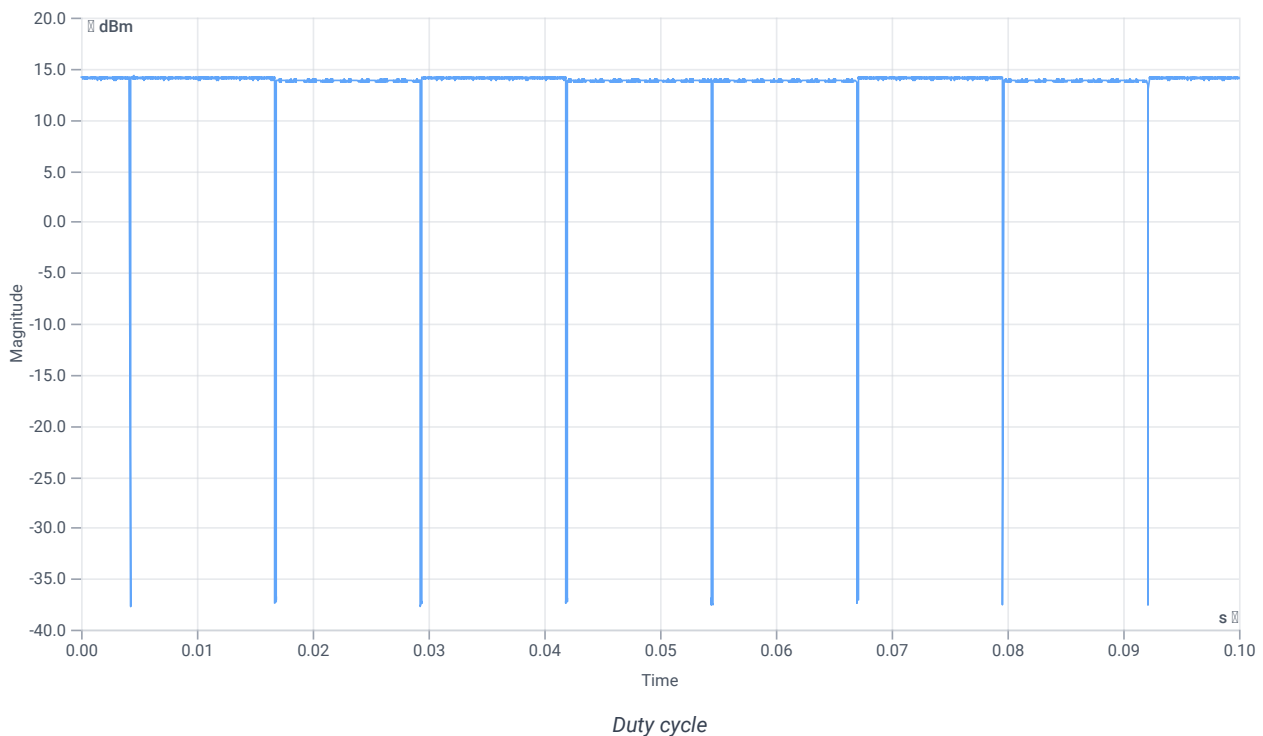
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 10.00 | dBm | INFO |
| Ref. Frequency | -- | -- | 2438.200 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

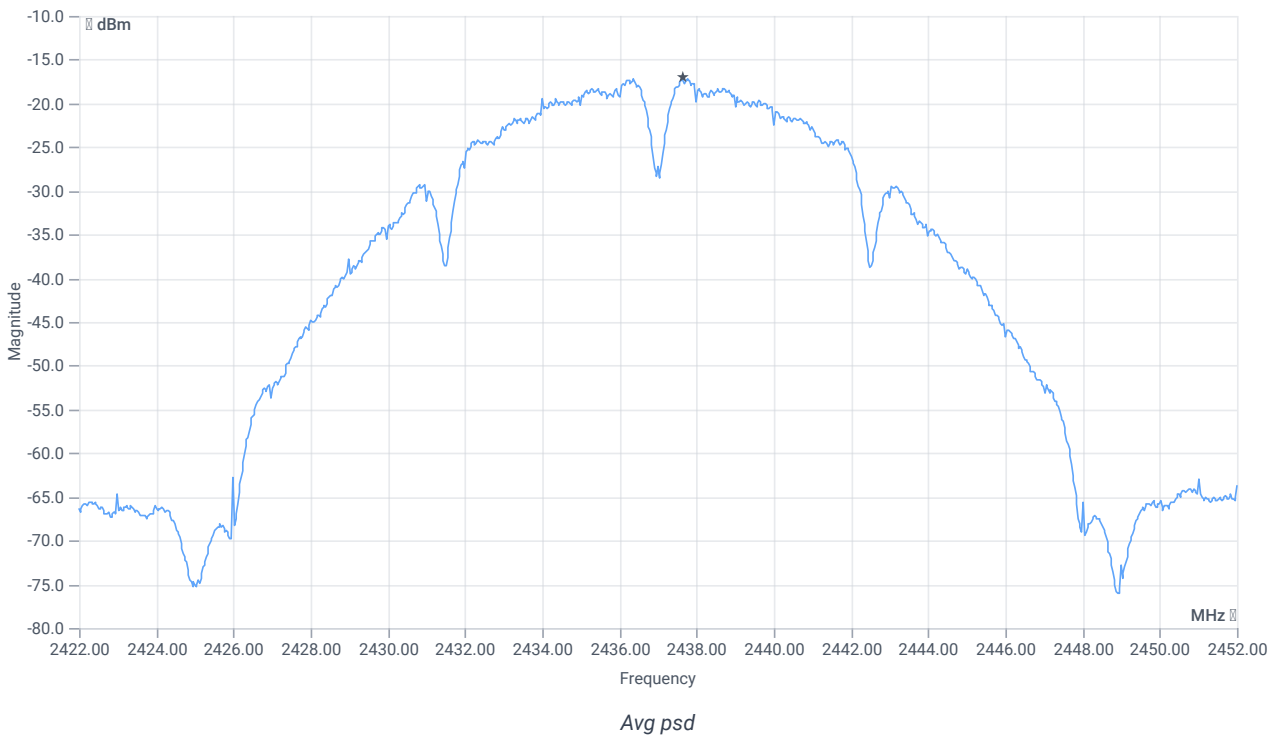
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:7 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.988 | -- | INFO |
| Duty Cycle max | -- | -- | 0.052 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.986 | -- | INFO |
| Duty Cycle min | -- | -- | 0.061 | dB | INFO |
| Max TX Burst Length | -- | -- | 12.4 | ms | INFO |
| Min Gap Length | -- | -- | 0.15 | ms | INFO |
| Max Gap Length | -- | -- | 0.175 | ms | INFO |



Avg. psd

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 15.00 13.81 20 |
| Start [MHz] Stop [MHz] | 2422.000 2452.000 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 334 100 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------|-------------|-------------|----------|----------|---------|
| Avg psd uncorrected | -- | -- | -17.09 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.06 | dB | INFO |
| Avg psd DC corrected | -- | 8 | -17.03 | dBm/3kHz | PASS |

Verdict

PASS

FCC 15.247 # Avg psd DTS ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 15:04:26 |
| Ambit temp [°C] humidity [rel%] | 23.7 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.10.5 or.3 |
| Description | FCC 15.247 Avg psd DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2437 MHz

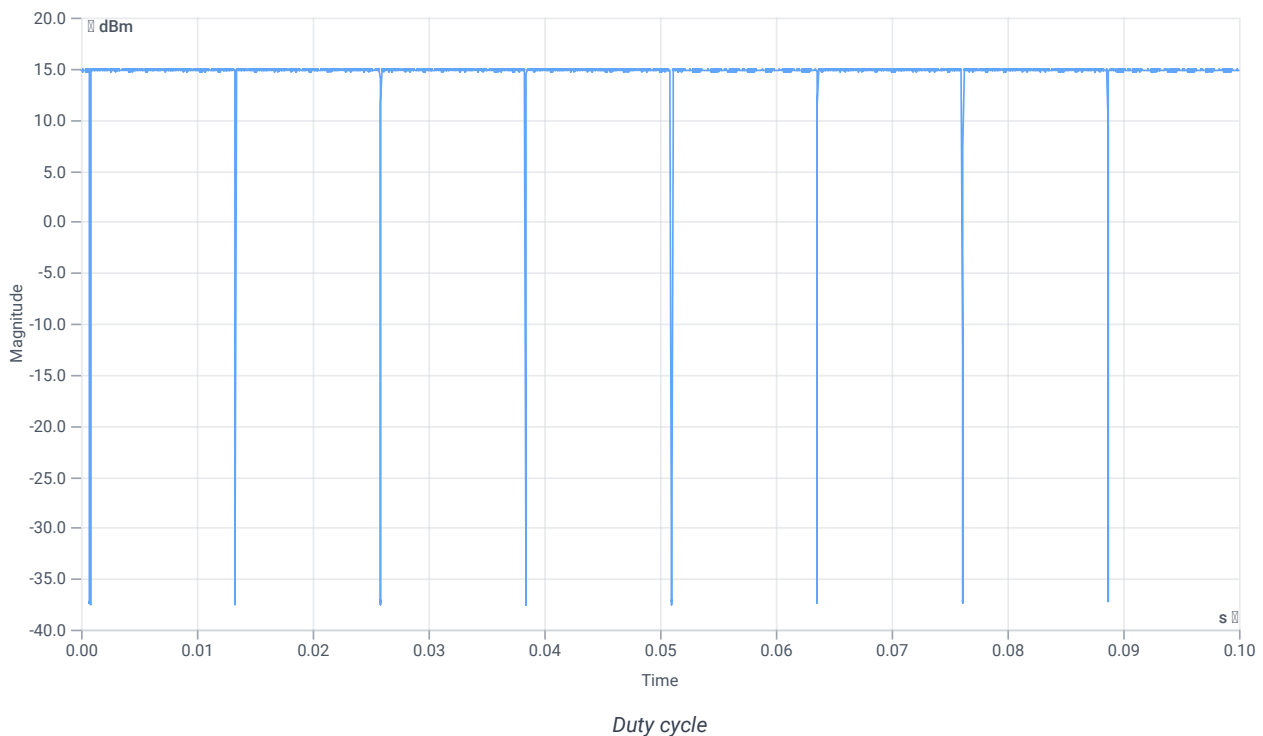
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 10.65 | dBm | INFO |
| Ref. Frequency | -- | -- | 2438.200 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

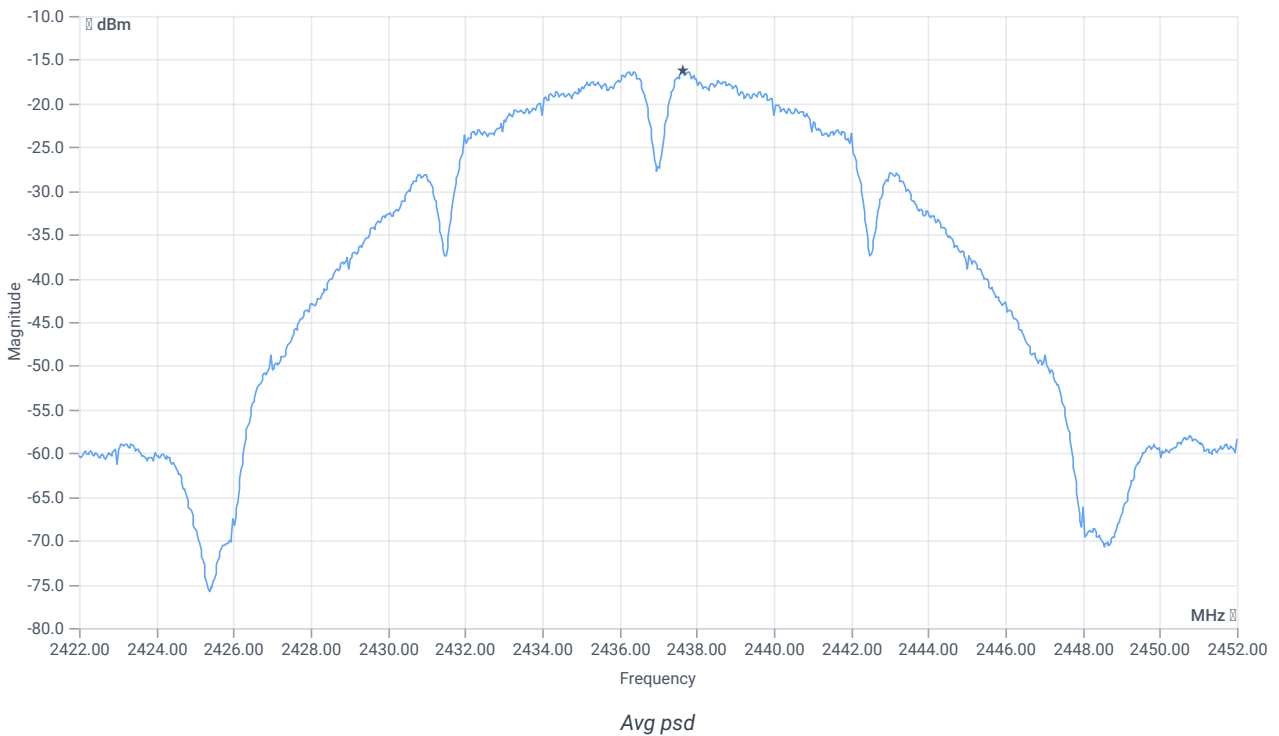
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:7 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.99 | -- | INFO |
| Duty Cycle max | -- | -- | 0.044 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.986 | -- | INFO |
| Duty Cycle min | -- | -- | 0.061 | dB | INFO |
| Max TX Burst Length | -- | -- | 12.425 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.175 | ms | INFO |



Avg. psd

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 15.65 13.81 20 |
| Start [MHz] Stop [MHz] | 2422.000 2452.000 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 334 100 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------|-------------|-------------|----------|----------|---------|
| Avg psd uncorrected | -- | -- | -16.28 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.06 | dB | INFO |
| Avg psd DC corrected | -- | 8 | -16.22 | dBm/3kHz | PASS |

Verdict

PASS

FCC 15.247 # Avg psd DTS ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 15:14:21 |
| Ambit temp [°C] humidity [rel%] | 23.8 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.10.5 or.3 |
| Description | FCC 15.247 Avg psd DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2462 MHz

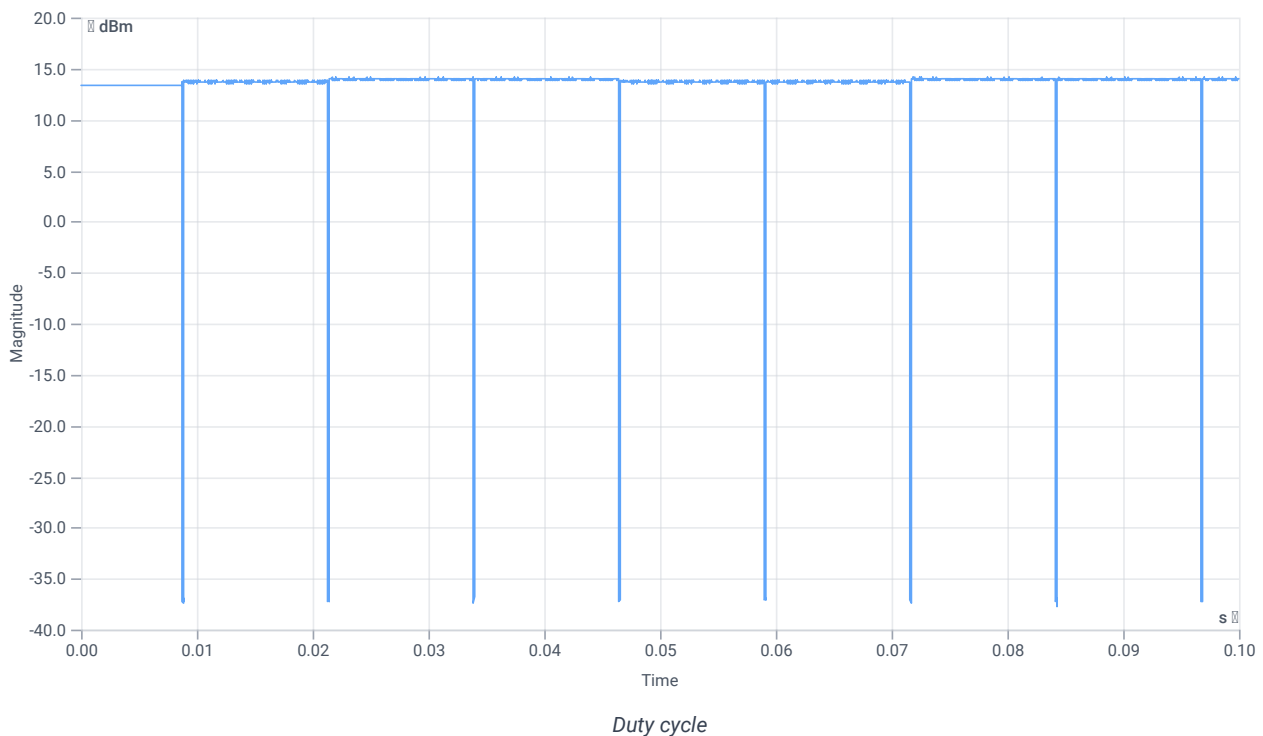
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 9.89 | dBm | INFO |
| Ref. Frequency | -- | -- | 2460.800 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

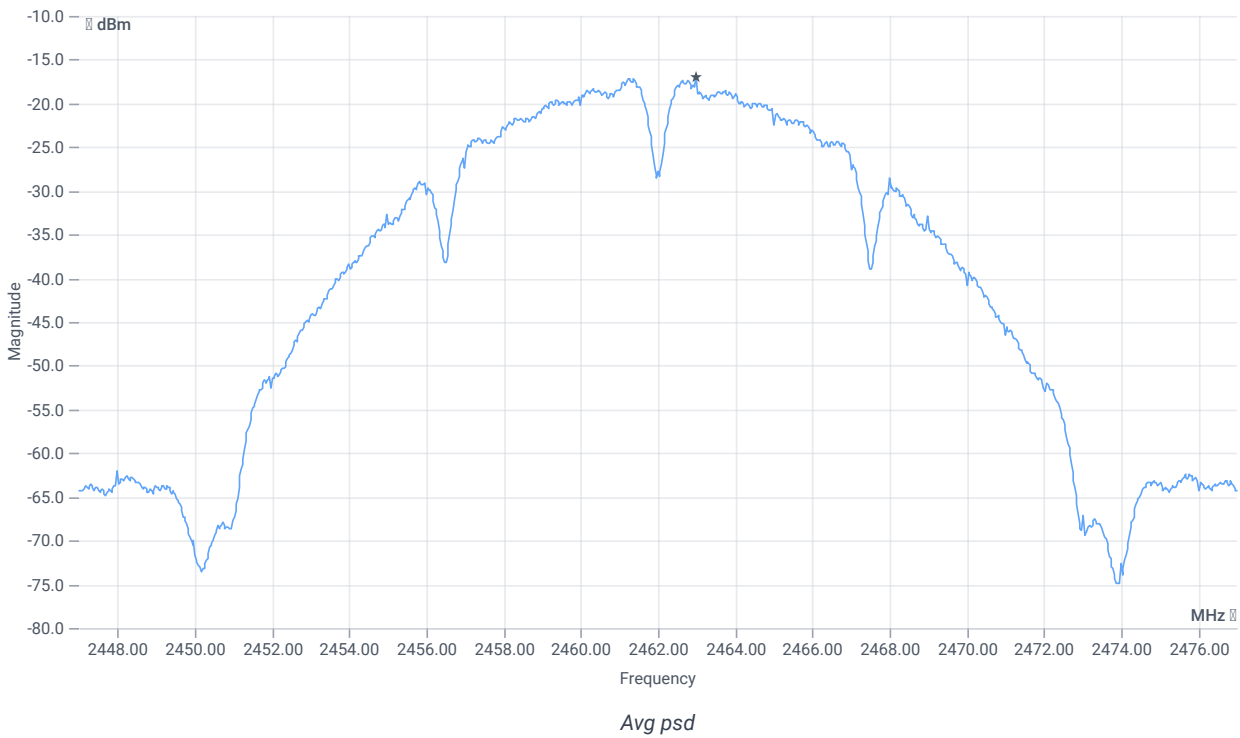
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:7 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.99 | -- | INFO |
| Duty Cycle max | -- | -- | 0.044 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.984 | -- | INFO |
| Duty Cycle min | -- | -- | 0.07 | dB | INFO |
| Max TX Burst Length | -- | -- | 12.425 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.2 | ms | INFO |



Avg. psd

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 14.89 13.94 20 |
| Start [MHz] Stop [MHz] | 2447.000 2477.000 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 334 100 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------|-------------|-------------|----------|----------|---------|
| Avg psd uncorrected | -- | -- | -17.08 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.07 | dB | INFO |
| Avg psd DC corrected | -- | 8 | -17.01 | dBm/3kHz | PASS |

Verdict

PASS

FCC 15.247 # Avg psd DTS ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 15:23:23 |
| Ambit temp [°C] humidity [rel%] | 23.9 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.10.5 or.3 |
| Description | FCC 15.247 Avg psd DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2462 MHz

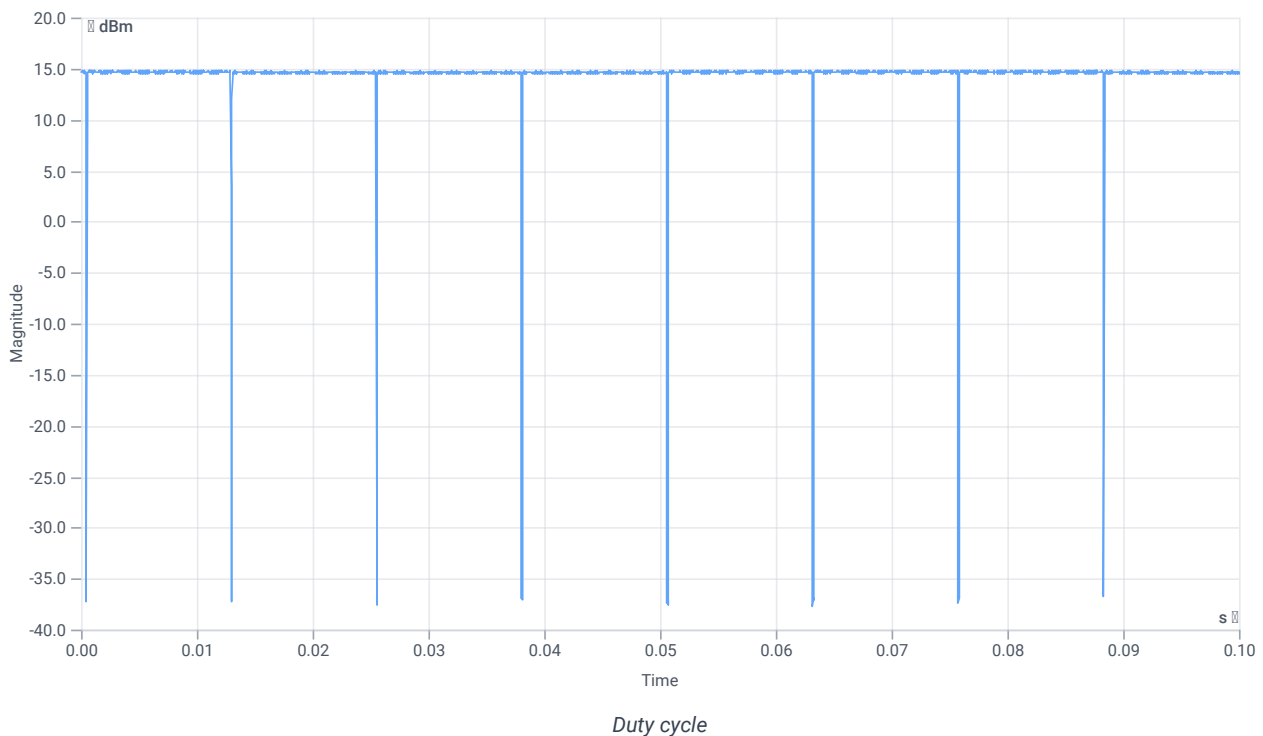
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 10.53 | dBm | INFO |
| Ref. Frequency | -- | -- | 2460.800 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

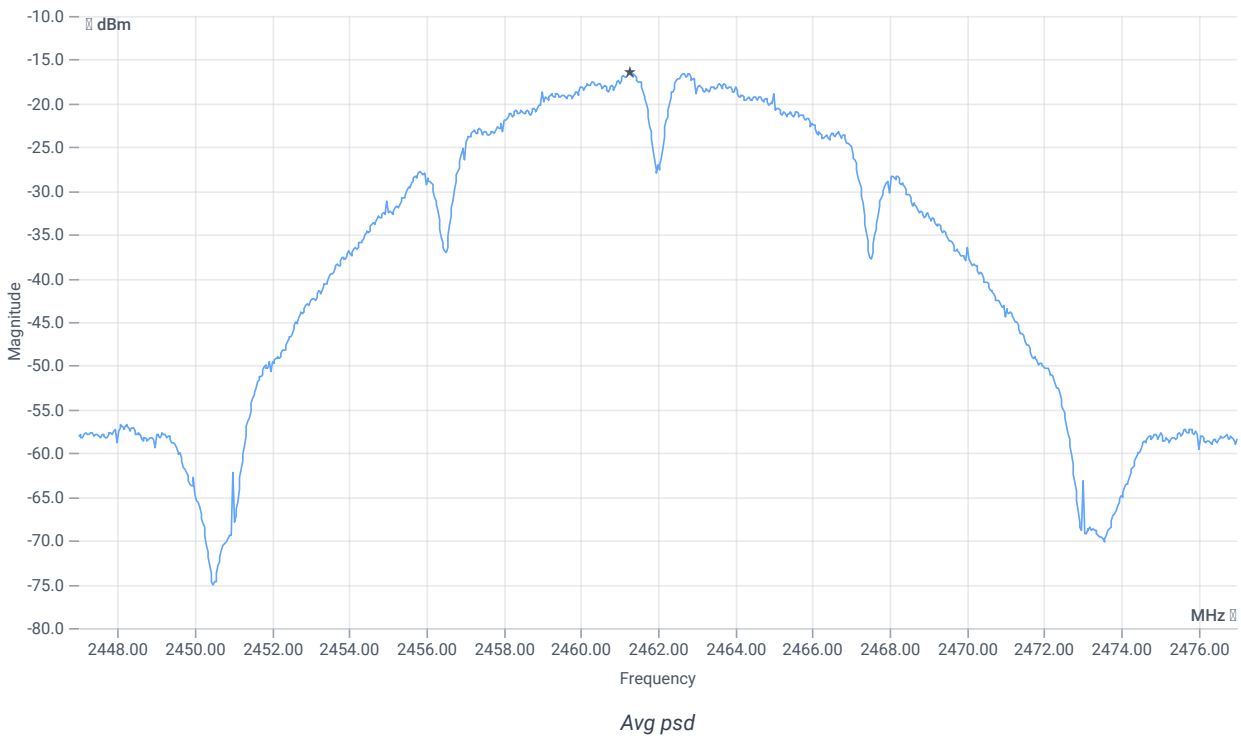
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:7 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.99 | -- | INFO |
| Duty Cycle max | -- | -- | 0.044 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.986 | -- | INFO |
| Duty Cycle min | -- | -- | 0.061 | dB | INFO |
| Max TX Burst Length | -- | -- | 12.4 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.175 | ms | INFO |



Avg. psd

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 15.53 13.94 20 |
| Start [MHz] Stop [MHz] | 2447.000 2477.000 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 334 100 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------|-------------|-------------|----------|----------|---------|
| Avg psd uncorrected | -- | -- | -16.49 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.06 | dB | INFO |
| Avg psd DC corrected | -- | 8 | -16.43 | dBm/3kHz | PASS |

Verdict

PASS

FCC 15.247 # Avg psd DTS ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 15:34:38 |
| Ambit temp [°C] humidity [rel%] | 23.8 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.10.5 or.3 |
| Description | FCC 15.247 Avg psd DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2412 MHz

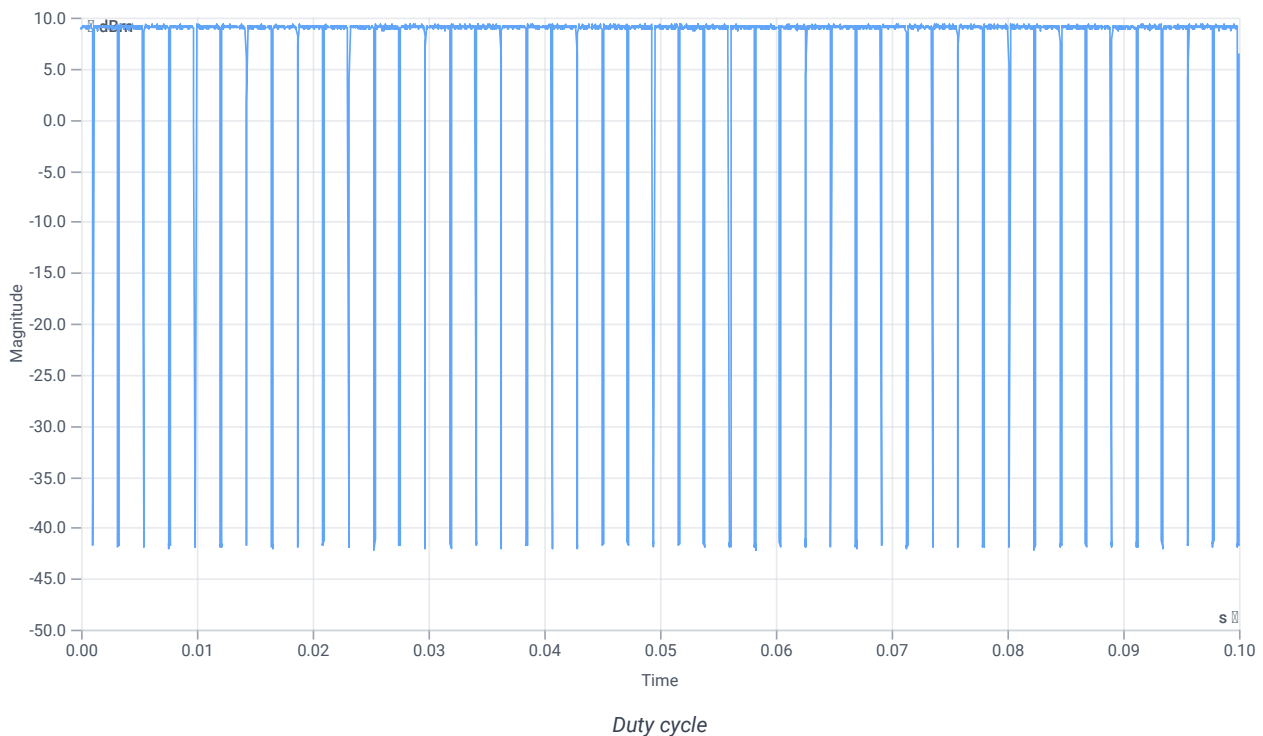
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 7.61 | dBm | INFO |
| Ref. Frequency | -- | -- | 2414.400 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

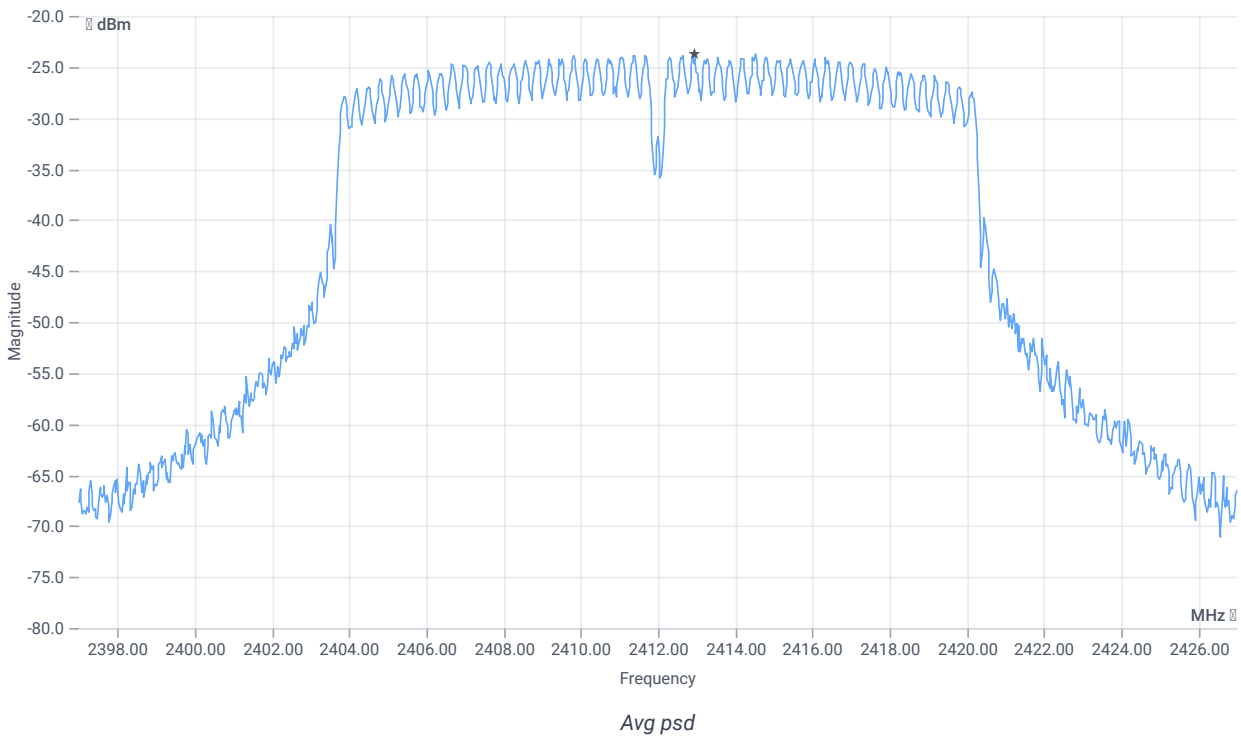
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:45 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.943 | -- | INFO |
| Duty Cycle max | -- | -- | 0.255 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.9 | -- | INFO |
| Duty Cycle min | -- | -- | 0.458 | dB | INFO |
| Max TX Burst Length | -- | -- | 2.05 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.225 | ms | INFO |



Avg. psd

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.61 13.65 15 |
| Start [MHz] Stop [MHz] | 2397.000 2427.000 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 334 100 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------|-------------|-------------|----------|----------|---------|
| Avg psd uncorrected | -- | -- | -23.76 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.46 | dB | INFO |
| Avg psd DC corrected | -- | 8 | -23.3 | dBm/3kHz | PASS |

Verdict

PASS

FCC 15.247 # Avg psd DTS ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 15:43:42 |
| Ambit temp [°C] humidity [rel%] | 23.8 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.10.5 or.3 |
| Description | FCC 15.247 Avg psd DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2412 MHz

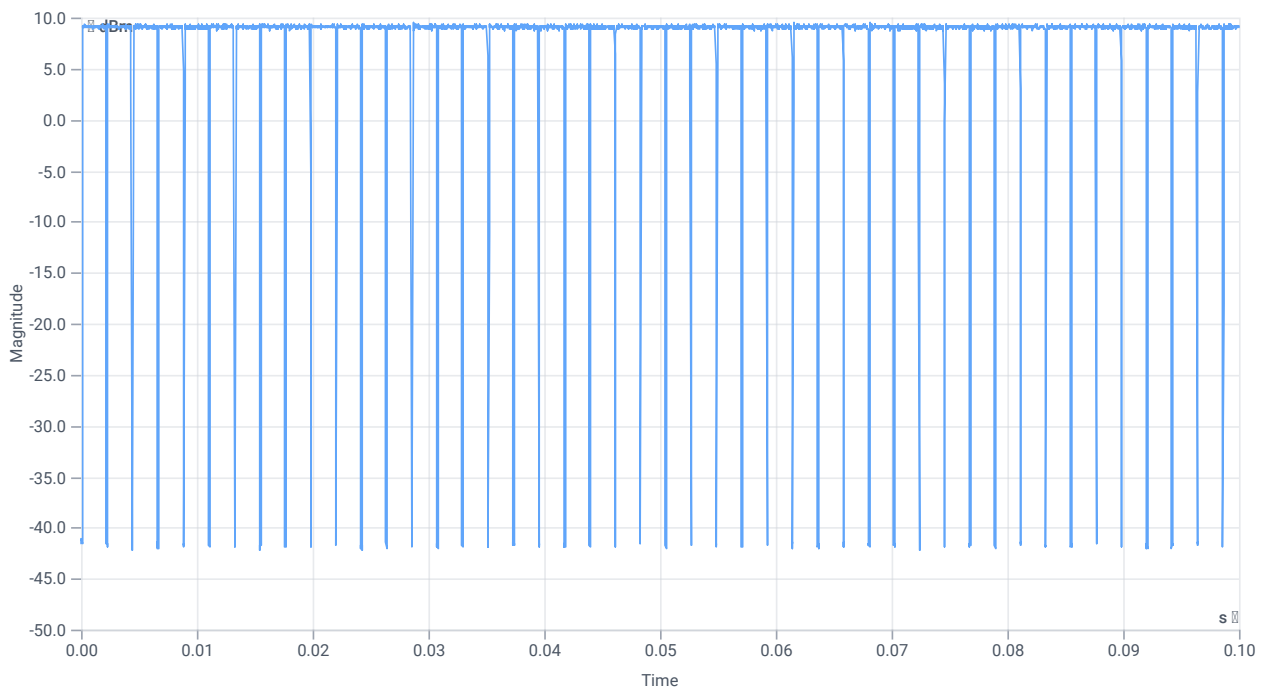
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.01 | dBm | INFO |
| Ref. Frequency | -- | -- | 2413.300 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:44 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.943 | -- | INFO |
| Duty Cycle max | -- | -- | 0.255 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.91 | -- | INFO |
| Duty Cycle min | -- | -- | 0.41 | dB | INFO |
| Max TX Burst Length | -- | -- | 2.05 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.2 | ms | INFO |

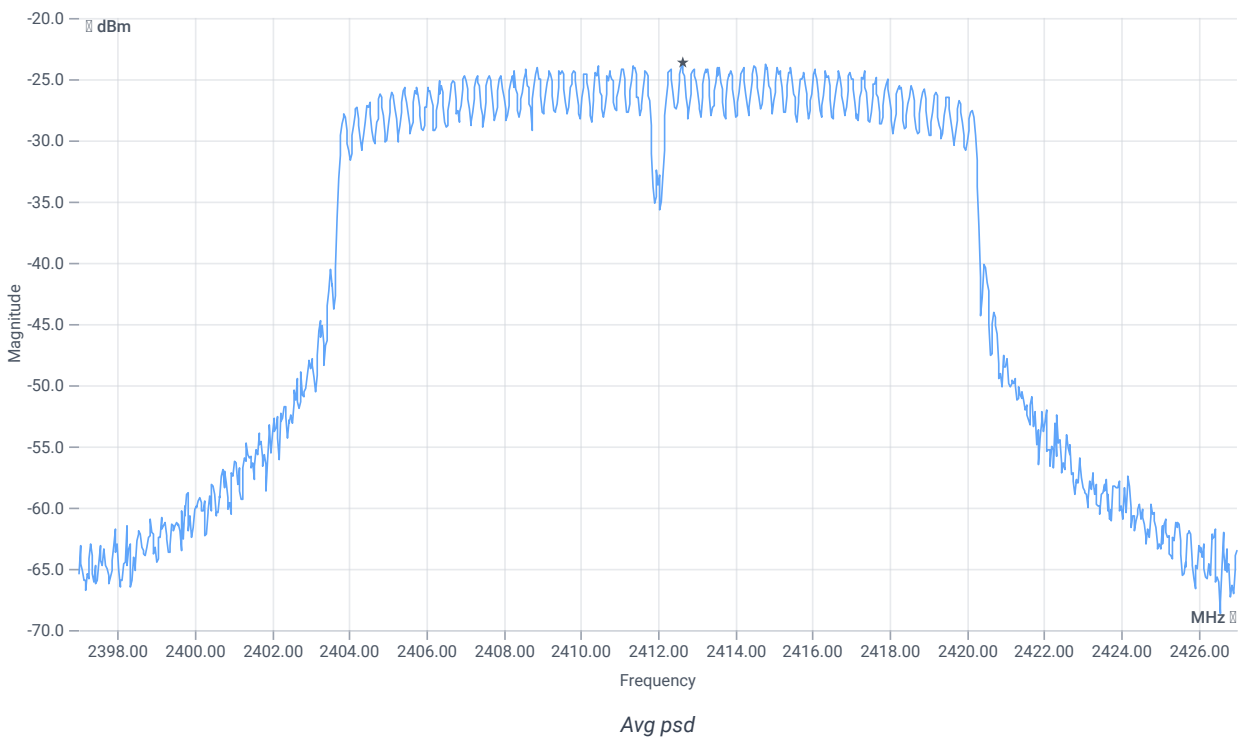


Duty cycle

Avg. psd

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.01 13.65 15 |
| Start [MHz] Stop [MHz] | 2397.000 2427.000 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 334 100 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------|-------------|-------------|----------|----------|---------|
| Avg psd uncorrected | -- | -- | -23.67 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.41 | dB | INFO |
| Avg psd DC corrected | -- | 8 | -23.26 | dBm/3kHz | PASS |

Verdict

PASS

FCC 15.247 # Avg psd DTS ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 15:53:02 |
| Ambit temp [°C] humidity [rel%] | 23.7 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.10.5 or.3 |
| Description | FCC 15.247 Avg psd DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2437 MHz

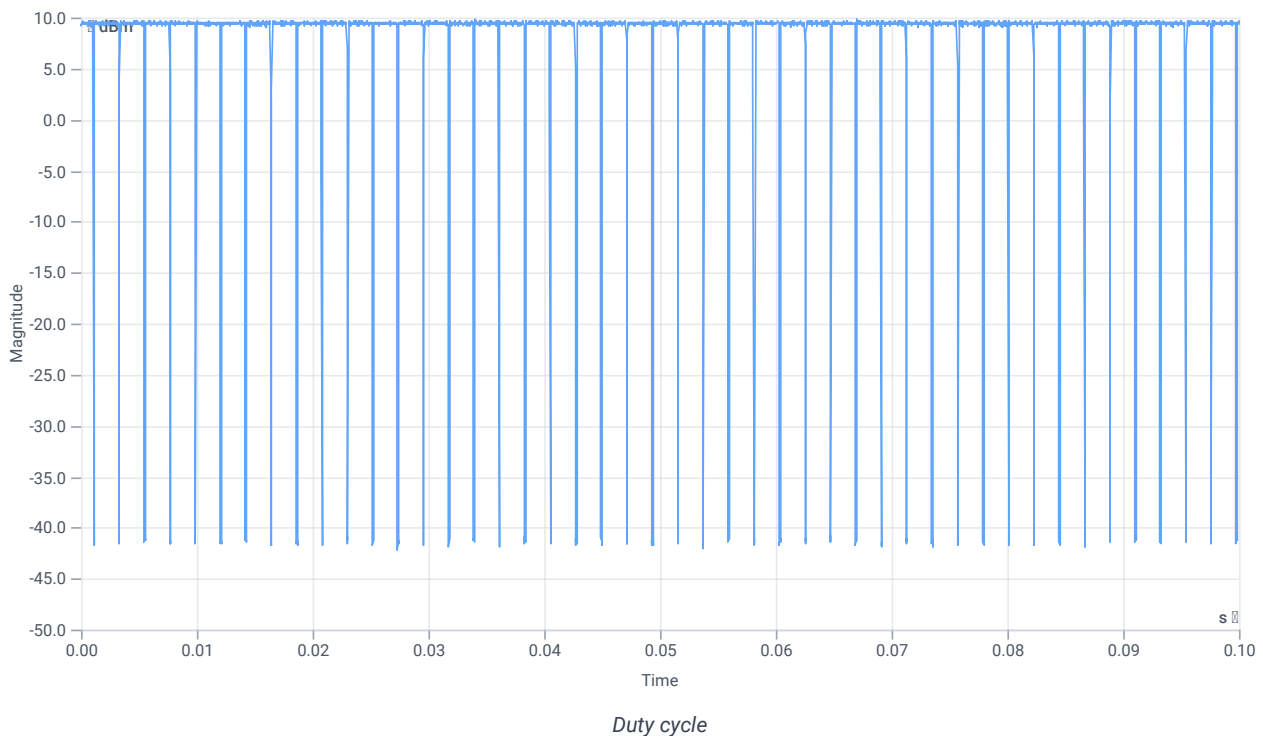
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.04 | dBm | INFO |
| Ref. Frequency | -- | -- | 2439.000 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

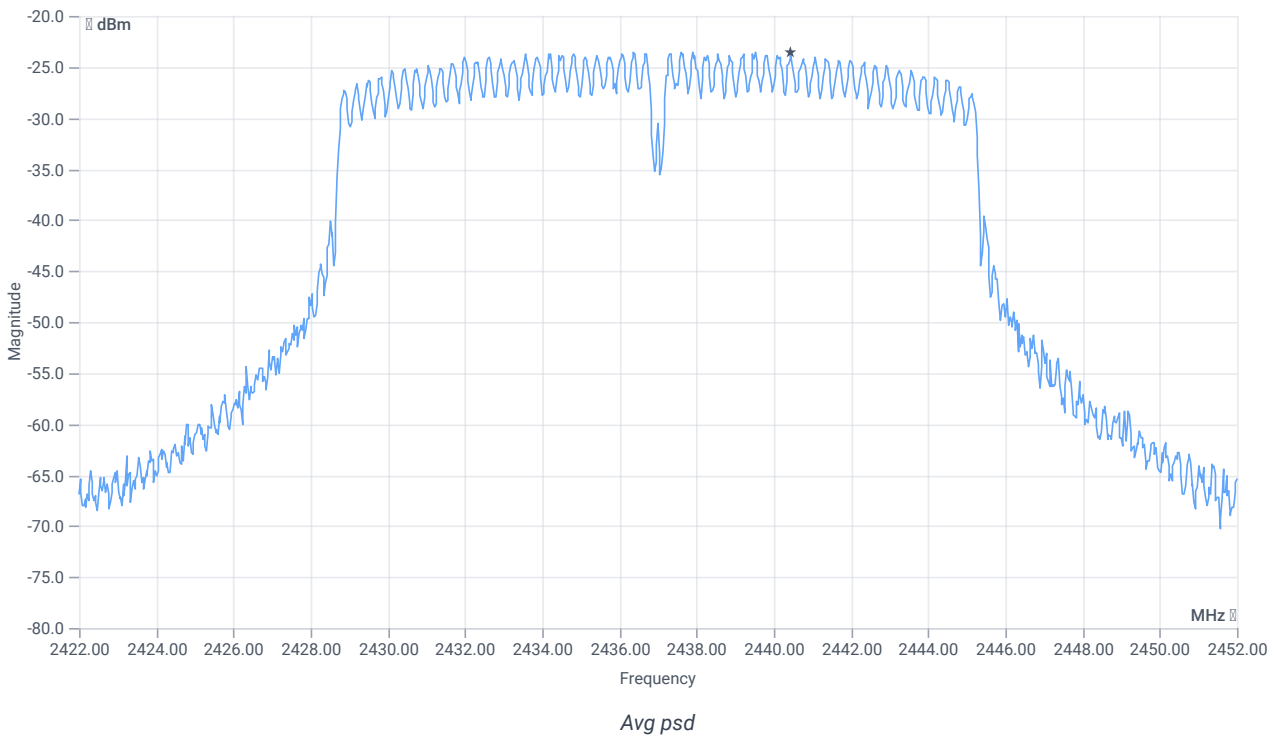
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:45 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.943 | -- | INFO |
| Duty Cycle max | -- | -- | 0.255 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.9 | -- | INFO |
| Duty Cycle min | -- | -- | 0.458 | dB | INFO |
| Max TX Burst Length | -- | -- | 2.05 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.225 | ms | INFO |



Avg. psd

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.04 13.81 15 |
| Start [MHz] Stop [MHz] | 2422.000 2452.000 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 334 100 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------|-------------|-------------|----------|----------|---------|
| Avg psd uncorrected | -- | -- | -23.55 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.46 | dB | INFO |
| Avg psd DC corrected | -- | 8 | -23.09 | dBm/3kHz | PASS |

Verdict

PASS

FCC 15.247 # Avg psd DTS ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 16:02:08 |
| Ambit temp [°C] humidity [rel%] | 23.7 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.10.5 or.3 |
| Description | FCC 15.247 Avg psd DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2437 MHz

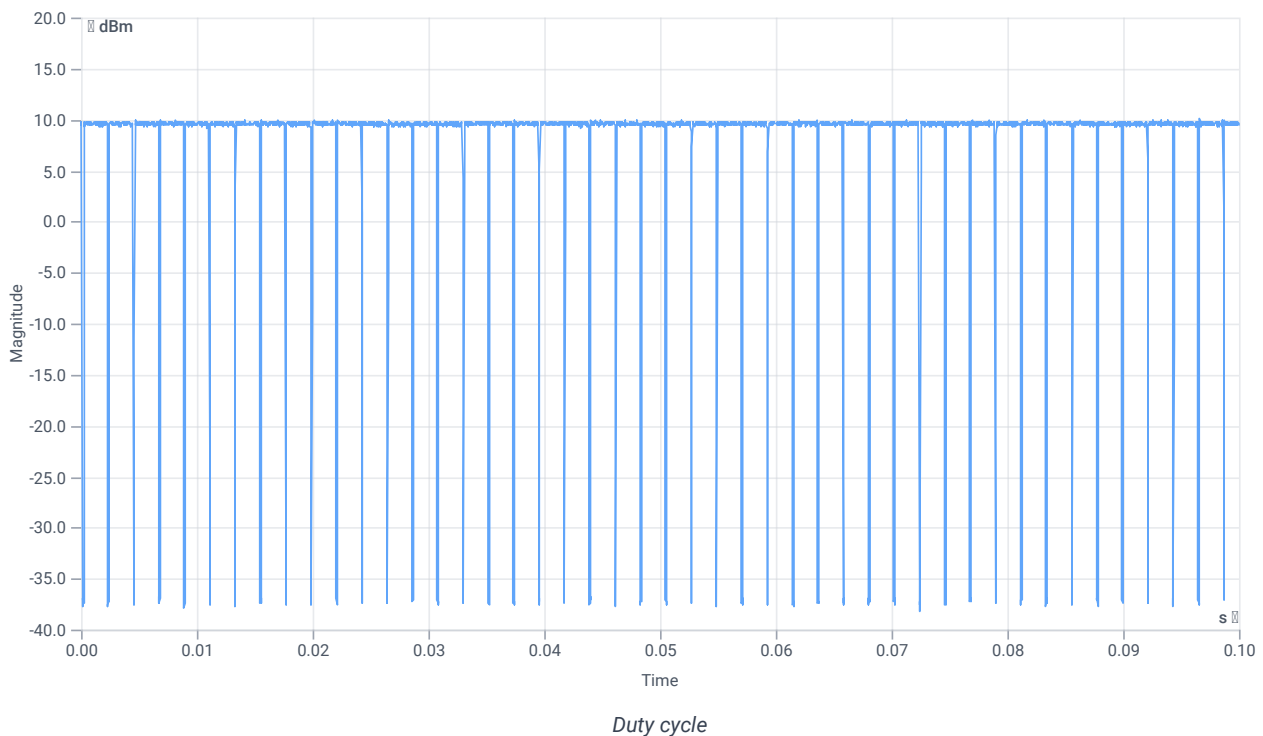
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 9.18 | dBm | INFO |
| Ref. Frequency | -- | -- | 2432.800 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

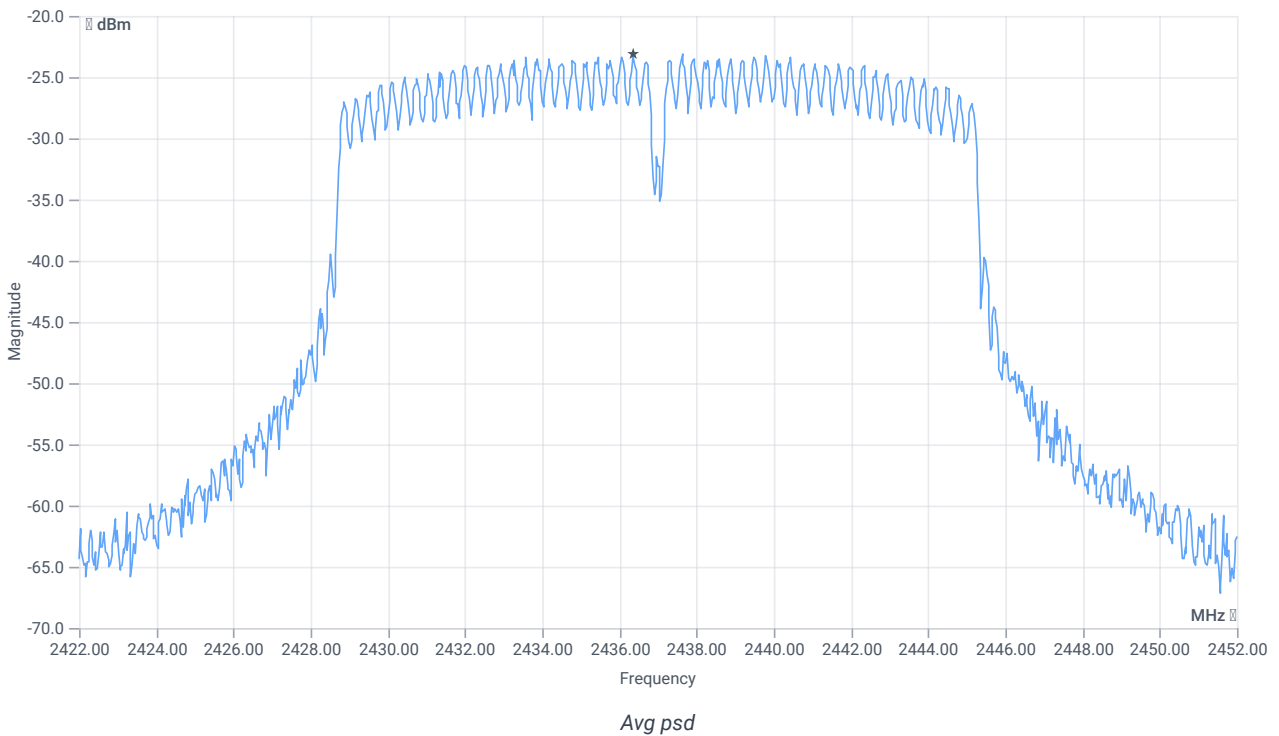
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:45 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.943 | -- | INFO |
| Duty Cycle max | -- | -- | 0.255 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.91 | -- | INFO |
| Duty Cycle min | -- | -- | 0.41 | dB | INFO |
| Max TX Burst Length | -- | -- | 2.05 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.2 | ms | INFO |



Avg. psd

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 14.18 13.81 20 |
| Start [MHz] Stop [MHz] | 2422.000 2452.000 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 334 100 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------|-------------|-------------|----------|----------|---------|
| Avg psd uncorrected | -- | -- | -23.05 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.41 | dB | INFO |
| Avg psd DC corrected | -- | 8 | -22.64 | dBm/3kHz | PASS |

Verdict

PASS

FCC 15.247 # Avg psd DTS ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 16:11:42 |
| Ambit temp [°C] humidity [rel%] | 23.8 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.10.5 or.3 |
| Description | FCC 15.247 Avg psd DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2462 MHz

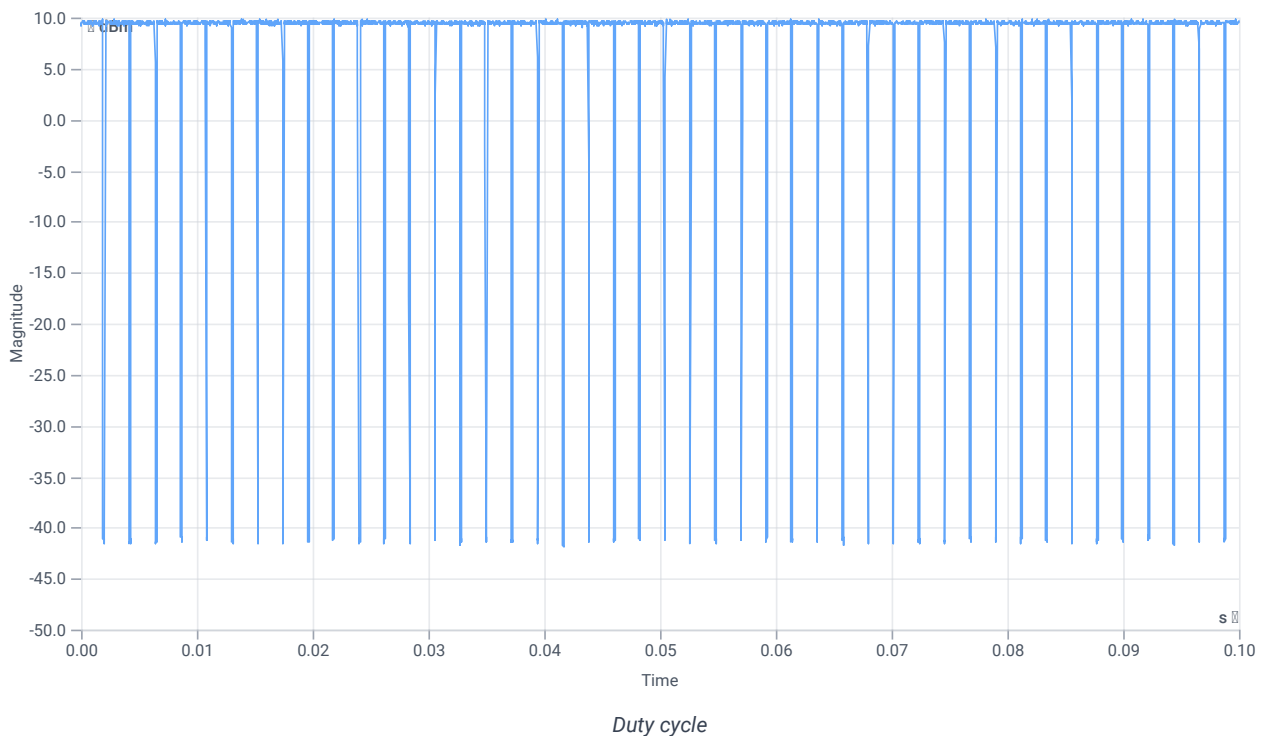
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.22 | dBm | INFO |
| Ref. Frequency | -- | -- | 2459.000 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

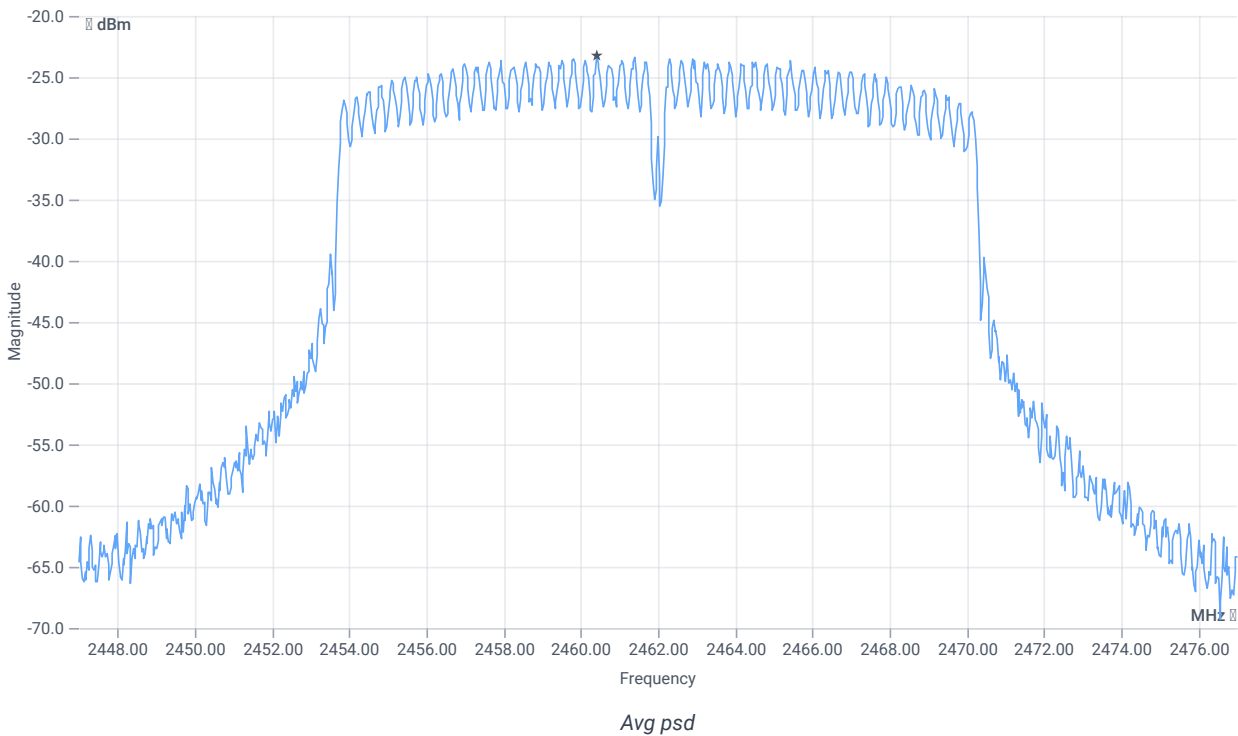
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:44 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.943 | -- | INFO |
| Duty Cycle max | -- | -- | 0.255 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.9 | -- | INFO |
| Duty Cycle min | -- | -- | 0.458 | dB | INFO |
| Max TX Burst Length | -- | -- | 2.05 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.225 | ms | INFO |



Avg. psd

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.22 13.94 15 |
| Start [MHz] Stop [MHz] | 2447.000 2477.000 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 334 100 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------|-------------|-------------|----------|----------|---------|
| Avg psd uncorrected | -- | -- | -23.31 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.46 | dB | INFO |
| Avg psd DC corrected | -- | 8 | -22.85 | dBm/3kHz | PASS |

Verdict

PASS

FCC 15.247 # Avg psd DTS ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|---|
| TC start | 22.02.2024 16:20:47 |
| Ambit temp [°C] humidity [rel%] | 23.9 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.10.5 or.3 |
| Description | FCC 15.247 Avg psd DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2462 MHz

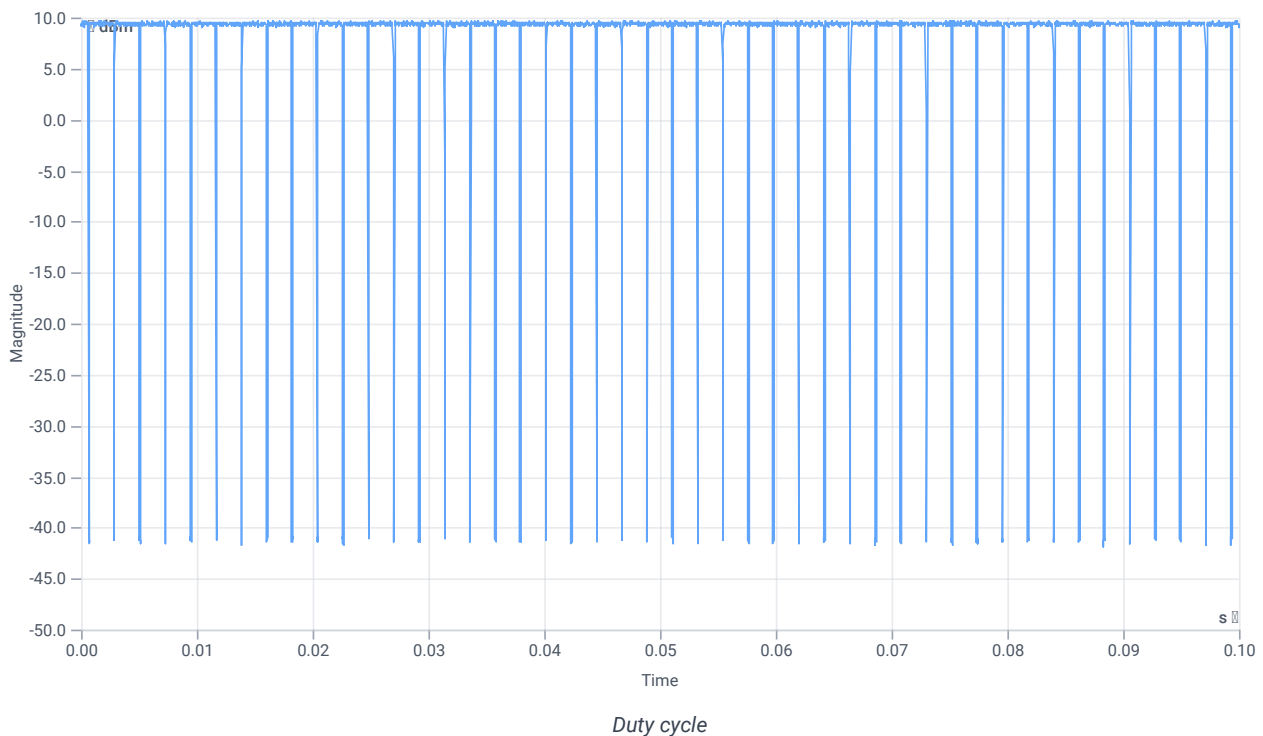
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.64 | dBm | INFO |
| Ref. Frequency | -- | -- | 2464.000 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

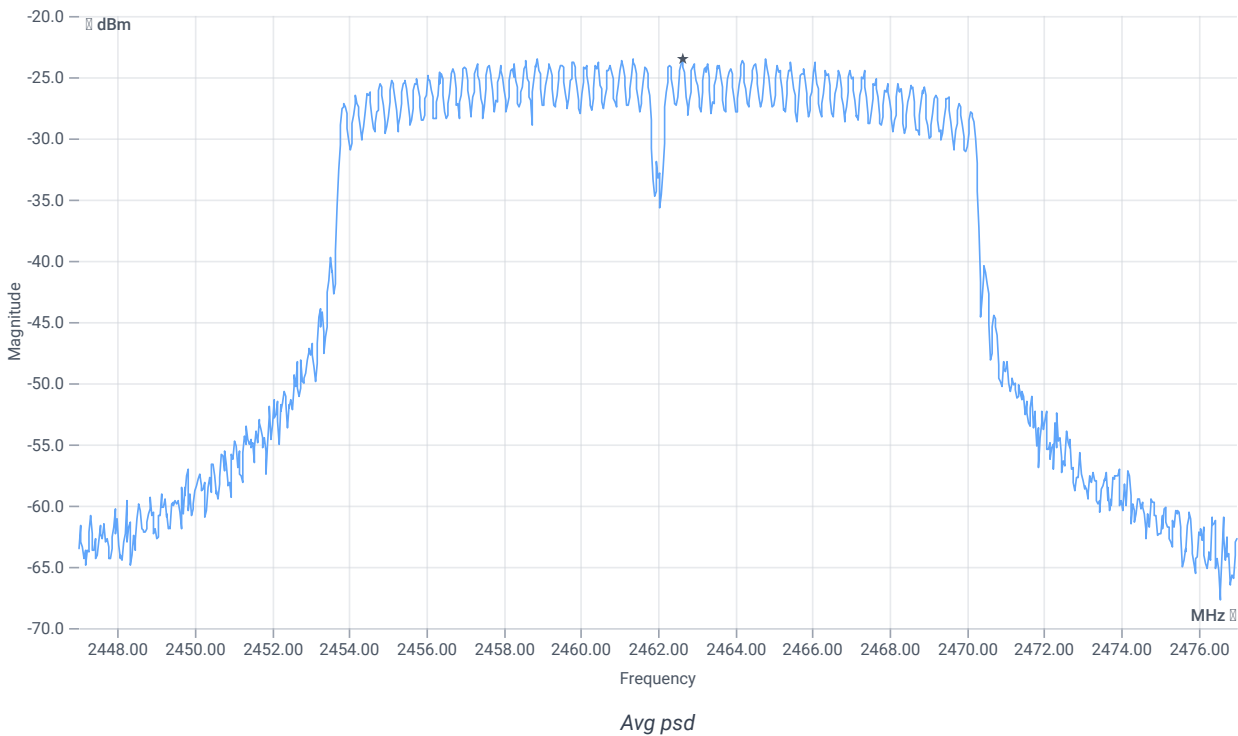
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:45 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.943 | -- | INFO |
| Duty Cycle max | -- | -- | 0.255 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.91 | -- | INFO |
| Duty Cycle min | -- | -- | 0.41 | dB | INFO |
| Max TX Burst Length | -- | -- | 2.05 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.2 | ms | INFO |



Avg. psd

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.64 13.94 15 |
| Start [MHz] Stop [MHz] | 2447.000 2477.000 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 334 100 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------|-------------|-------------|----------|----------|---------|
| Avg psd uncorrected | -- | -- | -23.48 | dBm | INFO |
| Duty cycle correction | -- | -- | 0.41 | dB | INFO |
| Avg psd DC corrected | -- | 8 | -23.07 | dBm/3kHz | PASS |

Verdict

PASS

FCC 15.247 # Avg psd DTS ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 17:09:24 |
| Ambit temp [°C] humidity [rel%] | 23.9 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.10.5 or.3 |
| Description | FCC 15.247 Avg psd DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2462 MHz

RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 7.66 | dBm | INFO |
| Ref. Frequency | -- | -- | 2456.710 | MHz | INFO |

Evaluation max. Duty Cycle

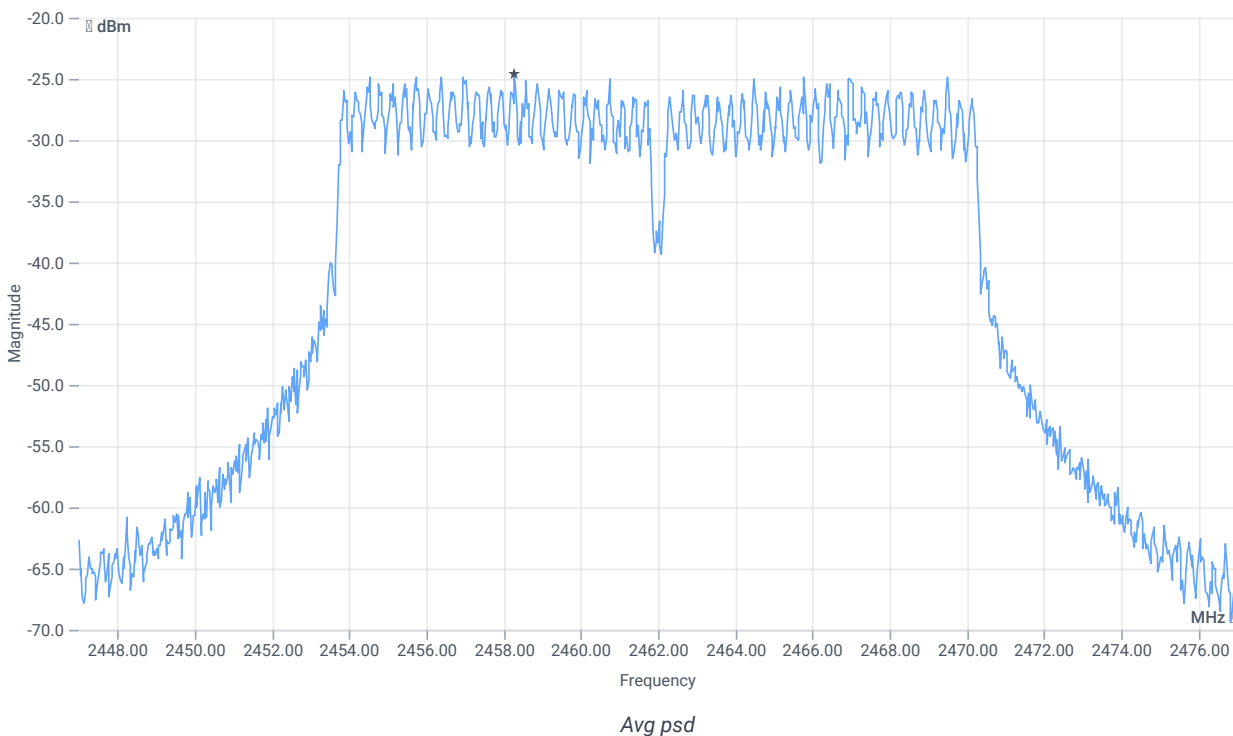
Duty Cycle evaluation

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min | -- | -- | 0 | dB | DC > 98% defined |

Avg. psd

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.66 13.94 15 |
| Start [MHz] Stop [MHz] | 2447.000 2477.000 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 334 100 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------|-------------|-------------|----------|----------|---------|
| Avg psd uncorrected | -- | -- | -24.63 | dBm | INFO |
| Duty cycle correction | -- | -- | 0 | dB | INFO |
| Avg psd DC corrected | -- | 8 | -24.63 | dBm/3kHz | PASS |

Verdict

PASS

FCC 15.247 # Avg psd DTS ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 17:03:35 |
| Ambit temp [°C] humidity [rel%] | 23.9 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.10.5 or.3 |
| Description | FCC 15.247 Avg psd DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2462 MHz

RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.35 | dBm | INFO |
| Ref. Frequency | -- | -- | 2459.700 | MHz | INFO |

Evaluation max. Duty Cycle

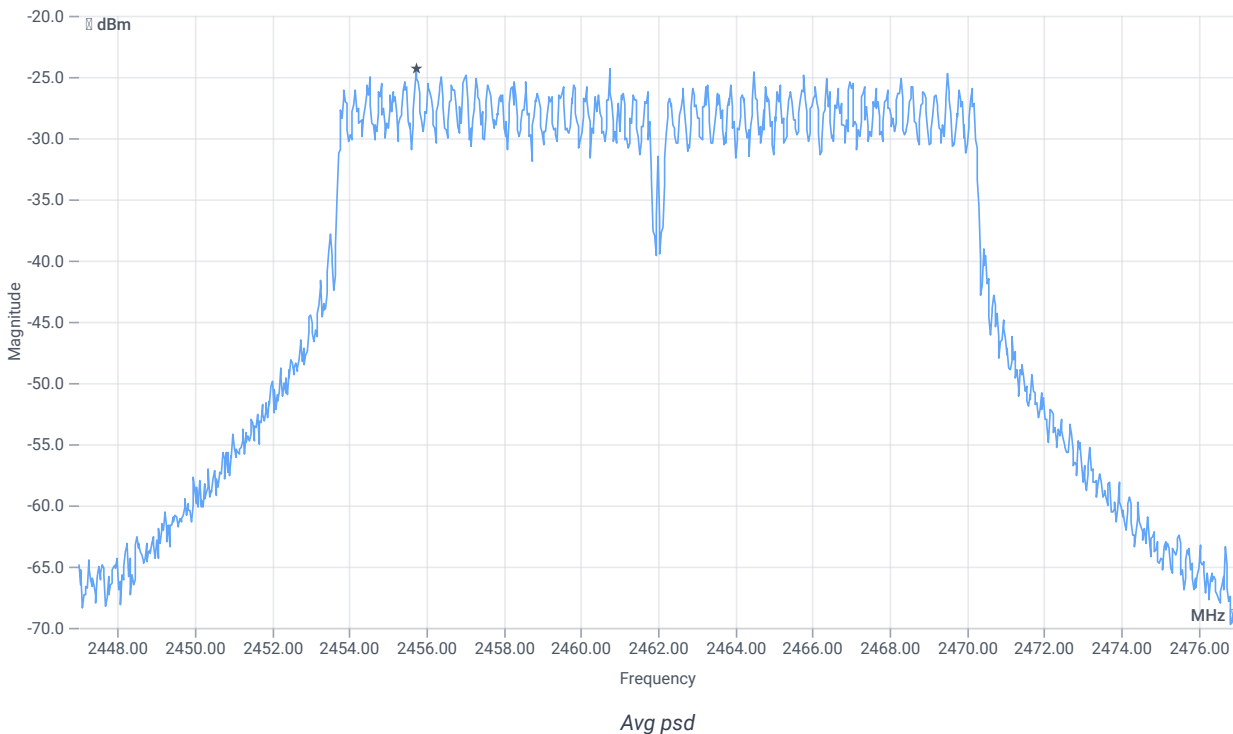
Duty Cycle evaluation

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min | -- | -- | 0 | dB | DC > 98% defined |

Avg. psd

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.35 13.94 15 |
| Start [MHz] Stop [MHz] | 2447.000 2477.000 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 334 100 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------|-------------|-------------|----------|----------|---------|
| Avg psd uncorrected | -- | -- | -24.35 | dBm | INFO |
| Duty cycle correction | -- | -- | 0 | dB | INFO |
| Avg psd DC corrected | -- | 8 | -24.35 | dBm/3kHz | PASS |

Verdict

PASS

FCC 15.247 # Avg psd DTS ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 16:54:15 |
| Ambit temp [°C] humidity [rel%] | 24.0 39 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.10.5 or.3 |
| Description | FCC 15.247 Avg psd DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2437 MHz

RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.35 | dBm | INFO |
| Ref. Frequency | -- | -- | 2430.310 | MHz | INFO |

Evaluation max. Duty Cycle

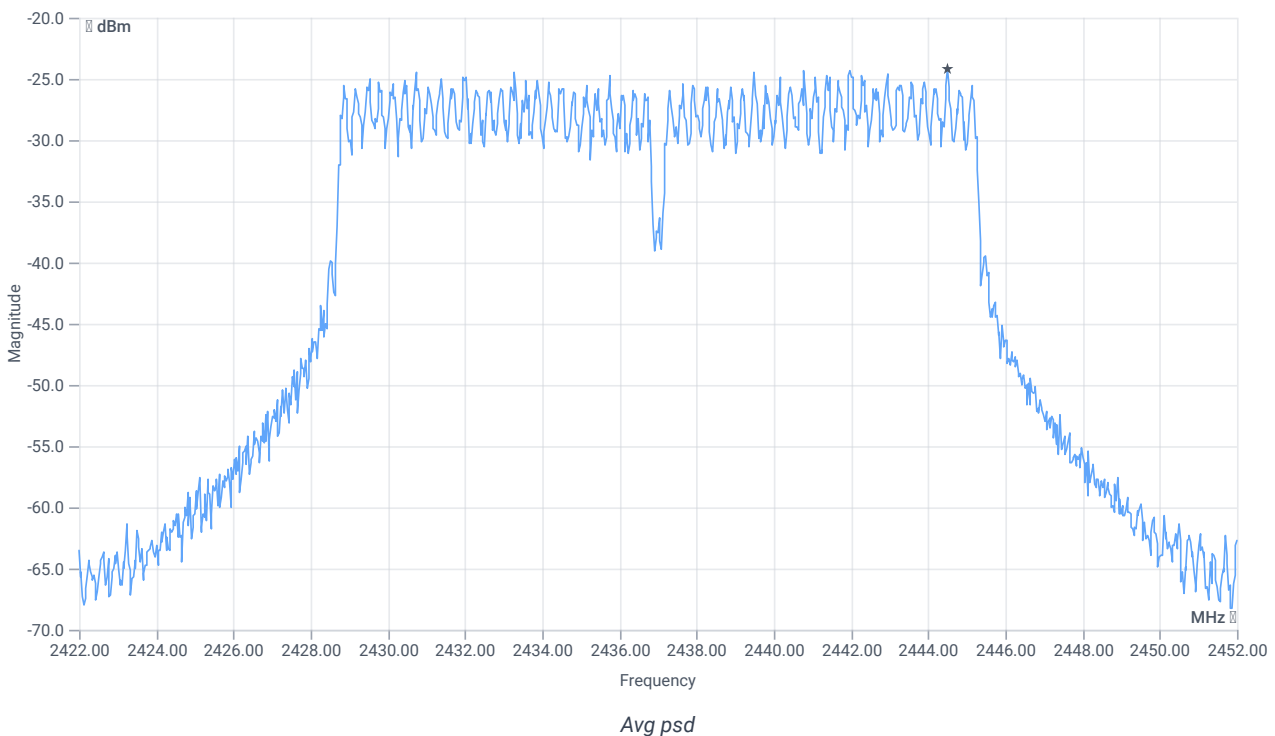
Duty Cycle evaluation

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min | -- | -- | 0 | dB | DC > 98% defined |

Avg. psd

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.35 13.81 15 |
| Start [MHz] Stop [MHz] | 2422.000 2452.000 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 334 100 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------|-------------|-------------|----------|----------|---------|
| Avg psd uncorrected | -- | -- | -24.19 | dBm | INFO |
| Duty cycle correction | -- | -- | 0 | dB | INFO |
| Avg psd DC corrected | -- | 8 | -24.19 | dBm/3kHz | PASS |

Verdict

PASS

FCC 15.247 # Avg psd DTS ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 16:48:20 |
| Ambit temp [°C] humidity [rel%] | 24.1 39 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.10.5 or.3 |
| Description | FCC 15.247 Avg psd DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2437 MHz

RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.01 | dBm | INFO |
| Ref. Frequency | -- | -- | 2429.610 | MHz | INFO |

Evaluation max. Duty Cycle

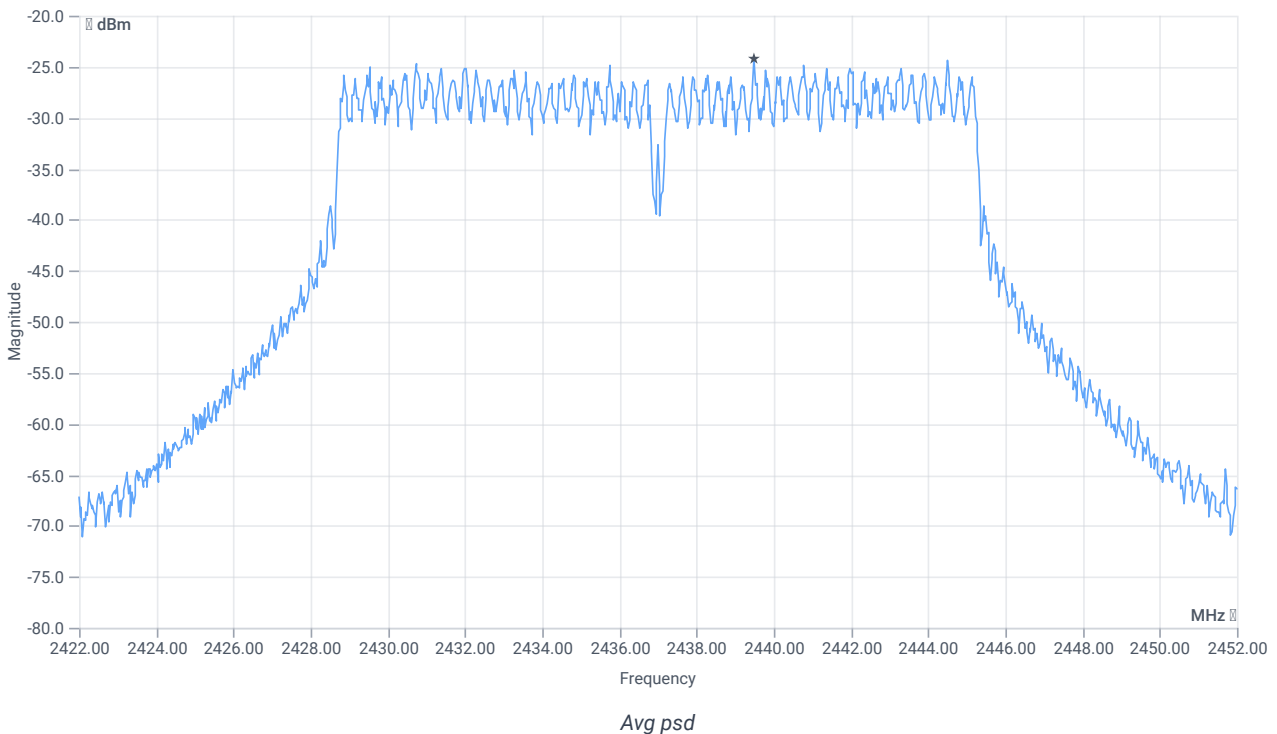
Duty Cycle evaluation

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|----------|------|------------------|
| Duty Cycle min | -- | -- | 0 | dB | DC > 98% defined |

Avg. psd

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.01 13.81 15 |
| Start [MHz] Stop [MHz] | 2422.000 2452.000 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 334 100 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------|-------------|-------------|----------|----------|---------|
| Avg psd uncorrected | -- | -- | -24.22 | dBm | INFO |
| Duty cycle correction | -- | -- | 0 | dB | INFO |
| Avg psd DC corrected | -- | 8 | -24.22 | dBm/3kHz | PASS |

Verdict

PASS

FCC 15.247 # Avg psd DTS ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 16:40:09 |
| Ambit temp [°C] humidity [rel%] | 24.0 39 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.10.5 or.3 |
| Description | FCC 15.247 Avg psd DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2412 MHz

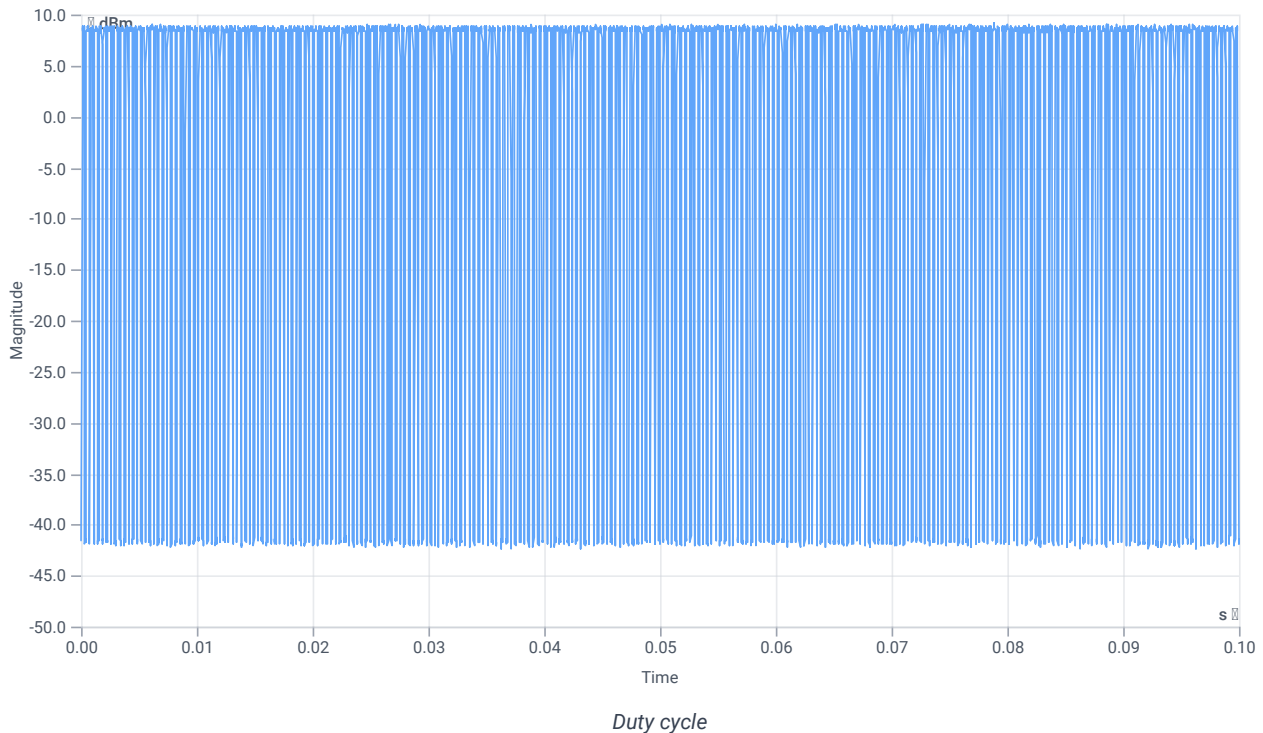
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 7.74 | dBm | INFO |
| Ref. Frequency | -- | -- | 2413.400 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

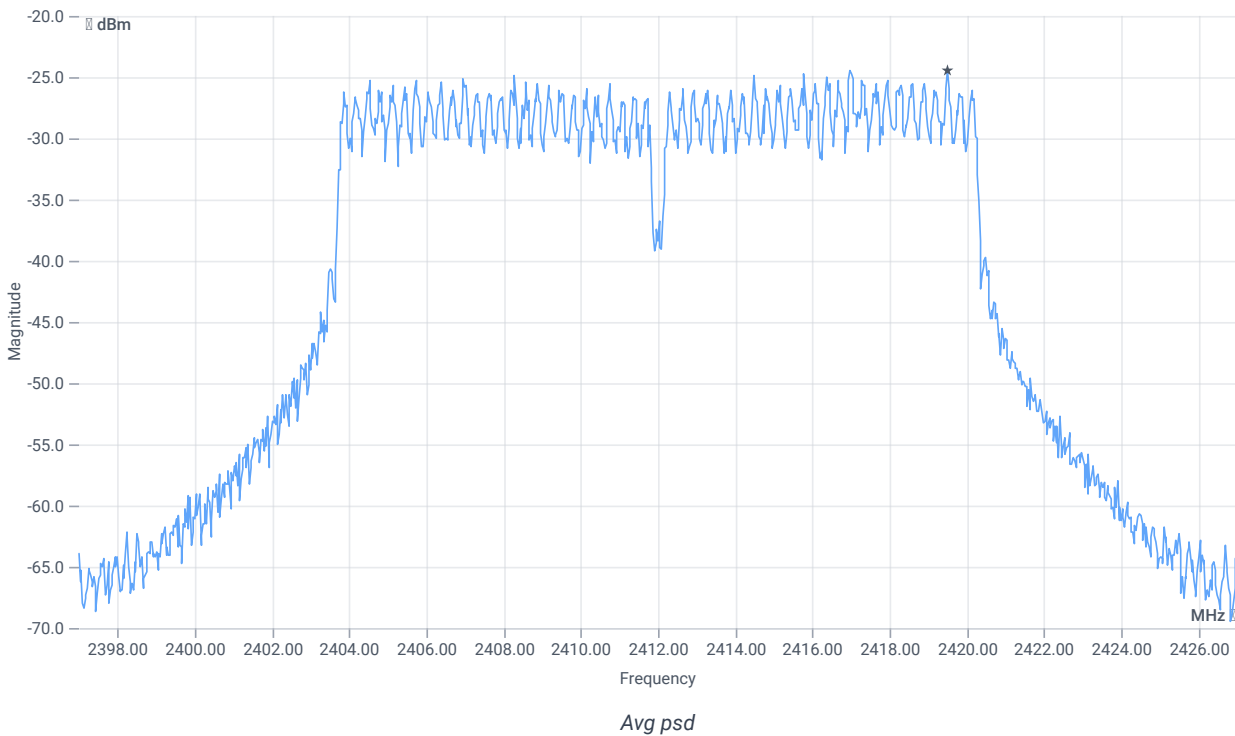
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:265 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.643 | -- | INFO |
| Duty Cycle max | -- | -- | 1.918 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.471 | -- | INFO |
| Duty Cycle min | -- | -- | 3.27 | dB | INFO |
| Max TX Burst Length | -- | -- | 0.225 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.225 | ms | INFO |



Avg. psd

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.74 13.65 15 |
| Start [MHz] Stop [MHz] | 2397.000 2427.000 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 334 100 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------|-------------|-------------|----------|----------|---------|
| Avg psd uncorrected | -- | -- | -24.42 | dBm | INFO |
| Duty cycle correction | -- | -- | 3.27 | dB | INFO |
| Avg psd DC corrected | -- | 8 | -21.15 | dBm/3kHz | PASS |

Verdict

PASS

FCC 15.247 # Avg psd DTS ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 16:34:11 |
| Ambit temp [°C] humidity [rel%] | 23.9 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | ANSI C63.10-2013 Chapter 11.10.5 or.3 |
| Description | FCC 15.247 Avg psd DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2412 MHz

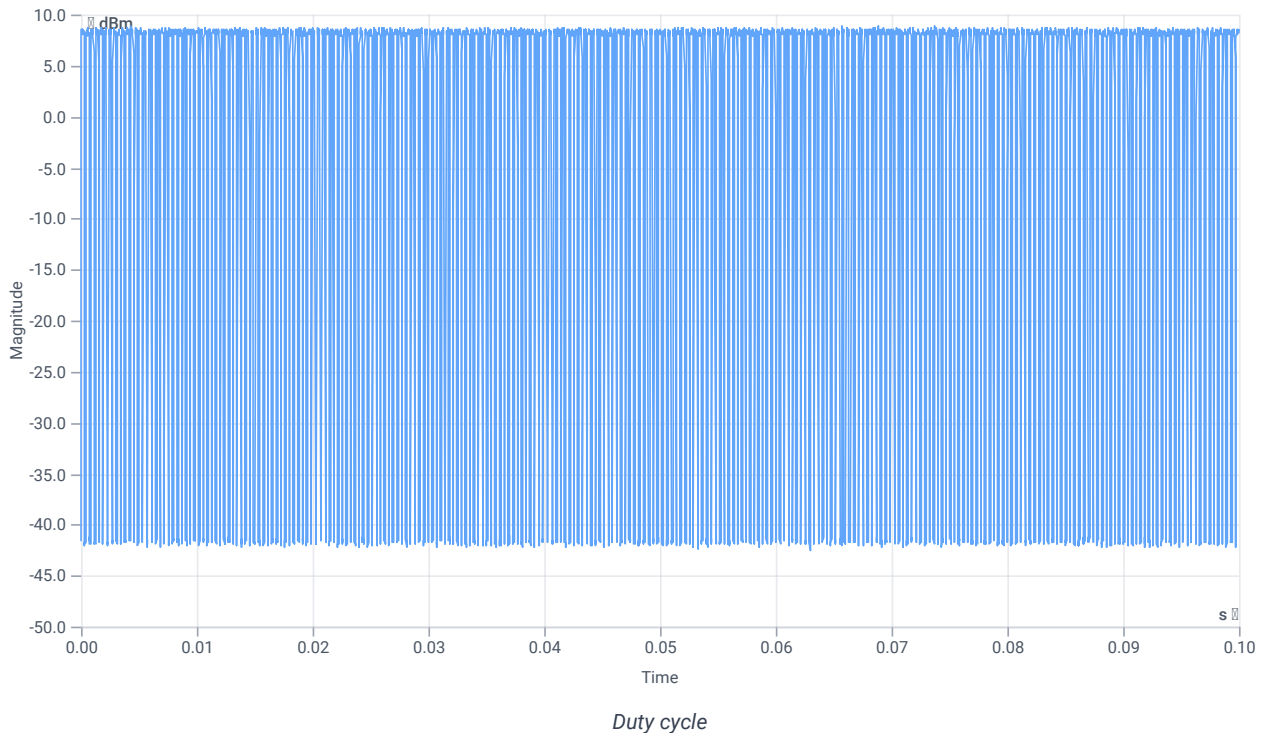
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.05 | dBm | INFO |
| Ref. Frequency | -- | -- | 2406.510 | MHz | INFO |

Evaluation max. Duty Cycle

Duty Cycle evaluation

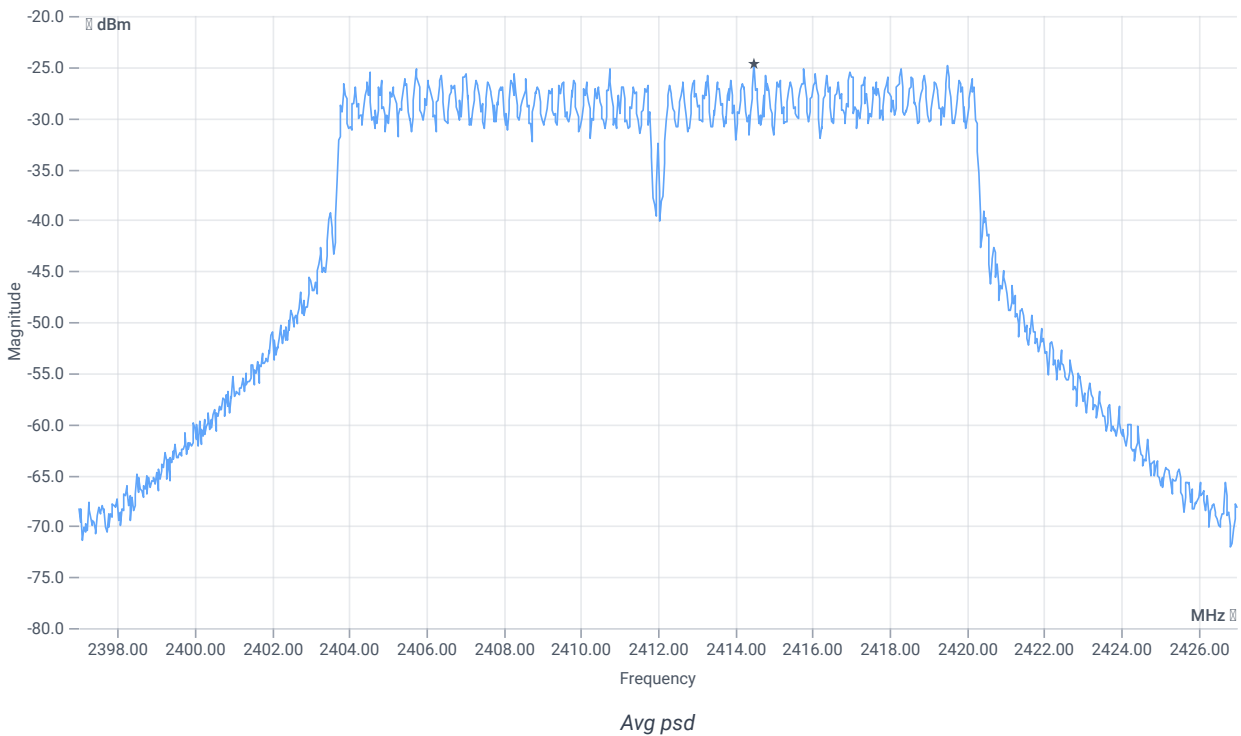
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Result Summary | | | | | |
| Number of detected Bursts:264 | | | | | |
| Duty Cycle (Burst Ratio) max | -- | -- | 0.643 | -- | INFO |
| Duty Cycle max | -- | -- | 1.918 | dB | INFO |
| Duty Cycle (Burst Ratio) min | -- | -- | 0.471 | -- | INFO |
| Duty Cycle min | -- | -- | 3.27 | dB | INFO |
| Max TX Burst Length | -- | -- | 0.225 | ms | INFO |
| Min Gap Length | -- | -- | 0.125 | ms | INFO |
| Max Gap Length | -- | -- | 0.225 | ms | INFO |



Avg. psd

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.05 13.65 15 |
| Start [MHz] Stop [MHz] | 2397.000 2427.000 |
| RBW [MHz] VBW [MHz] | 0.003000 0.010000 |
| Detector TraceMode | RMS AVER |
| Sweep: time [ms] count points per Section type | 334 100 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-----------------------|-------------|-------------|----------|----------|---------|
| Avg psd uncorrected | -- | -- | -24.75 | dBm | INFO |
| Duty cycle correction | -- | -- | 3.27 | dB | INFO |
| Avg psd DC corrected | -- | 8 | -21.48 | dBm/3kHz | PASS |

Verdict

PASS

FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 26.01.2024 14:12:03 |
| Ambit temp [°C] humidity [rel%] | 26.5 37 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| EUT port | EUT2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/ |
| Switch bits | 00100010:00010001:00000000:00000001 |

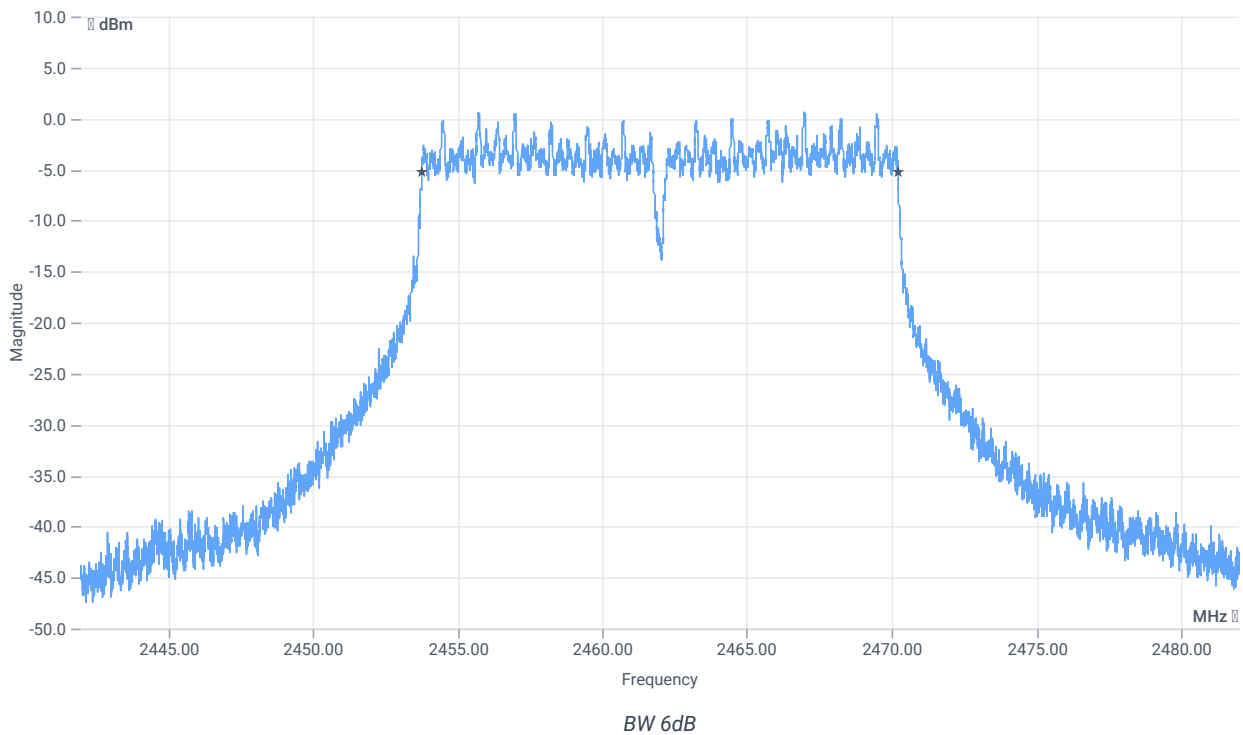
Test at TX 2462 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 8.89 | dBm | INFO |
| Ref. frequency | -- | -- | 2454.810 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.89 8.87 25 |
| Start [MHz] Stop [MHz] | 2442.000 2482.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500 | -- | 16464 | kHz | PASS |

Verdict

PASS

FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 26.01.2024 13:56:17 |
| Ambit temp [°C] humidity [rel%] | 27.1 35 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

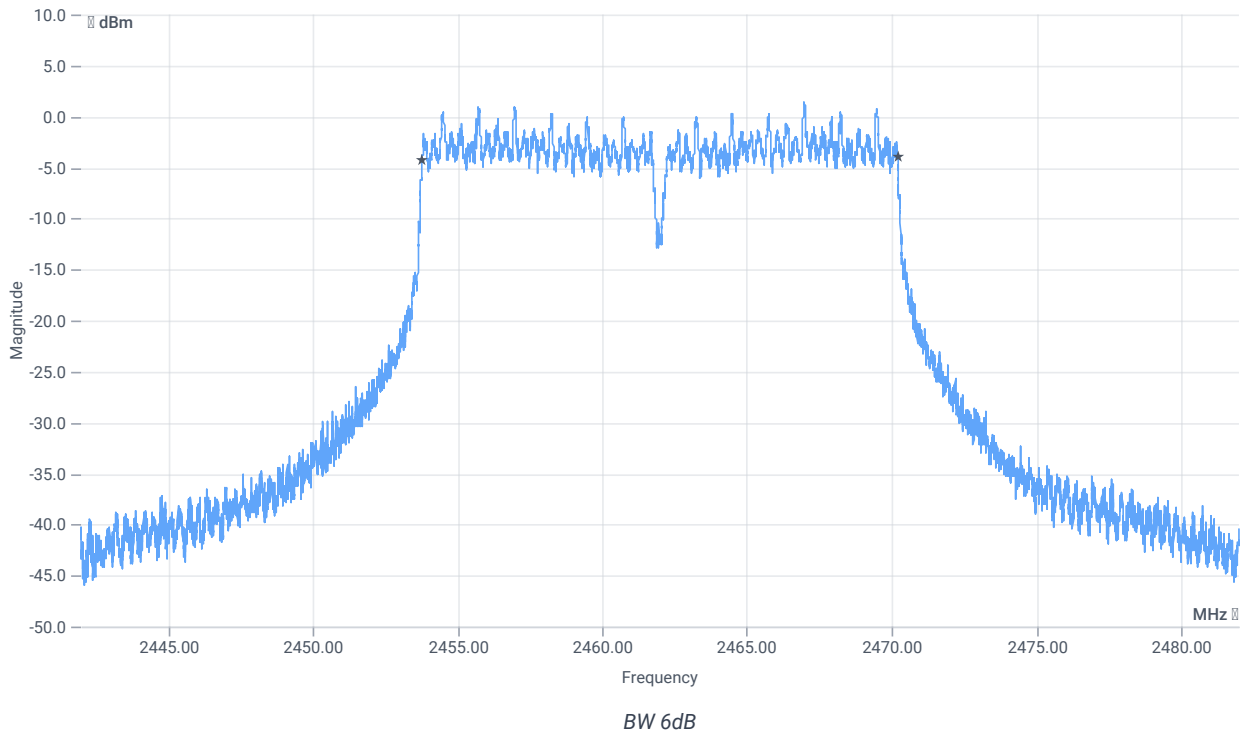
Test at TX 2462 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 9.36 | dBm | INFO |
| Ref. frequency | -- | -- | 2456.610 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 14.36 8.84 25 |
| Start [MHz] Stop [MHz] | 2442.000 2482.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500 | -- | 16432 | kHz | PASS |

Verdict

PASS

FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 26.01.2024 13:39:19 |
| Ambit temp [°C] humidity [rel%] | 27.6 35 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| EUT port | EUT2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/ |
| Switch bits | 00100010:00010001:00000000:00000001 |

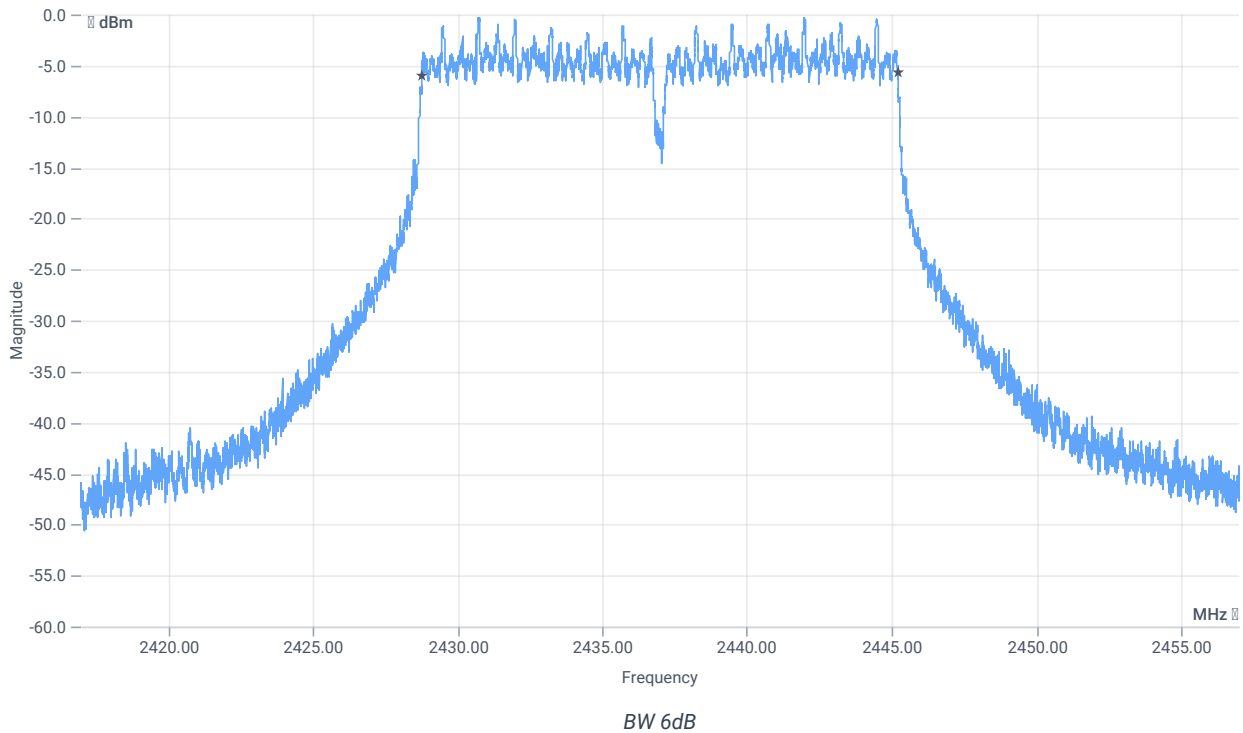
Test at TX 2437 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 8.03 | dBm | INFO |
| Ref. frequency | -- | -- | 2433.100 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.03 8.83 20 |
| Start [MHz] Stop [MHz] | 2417.000 2457.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500 | -- | 16464 | kHz | PASS |

Verdict

PASS

FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 26.01.2024 13:23:32 |
| Ambit temp [°C] humidity [rel%] | 28.3 33 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

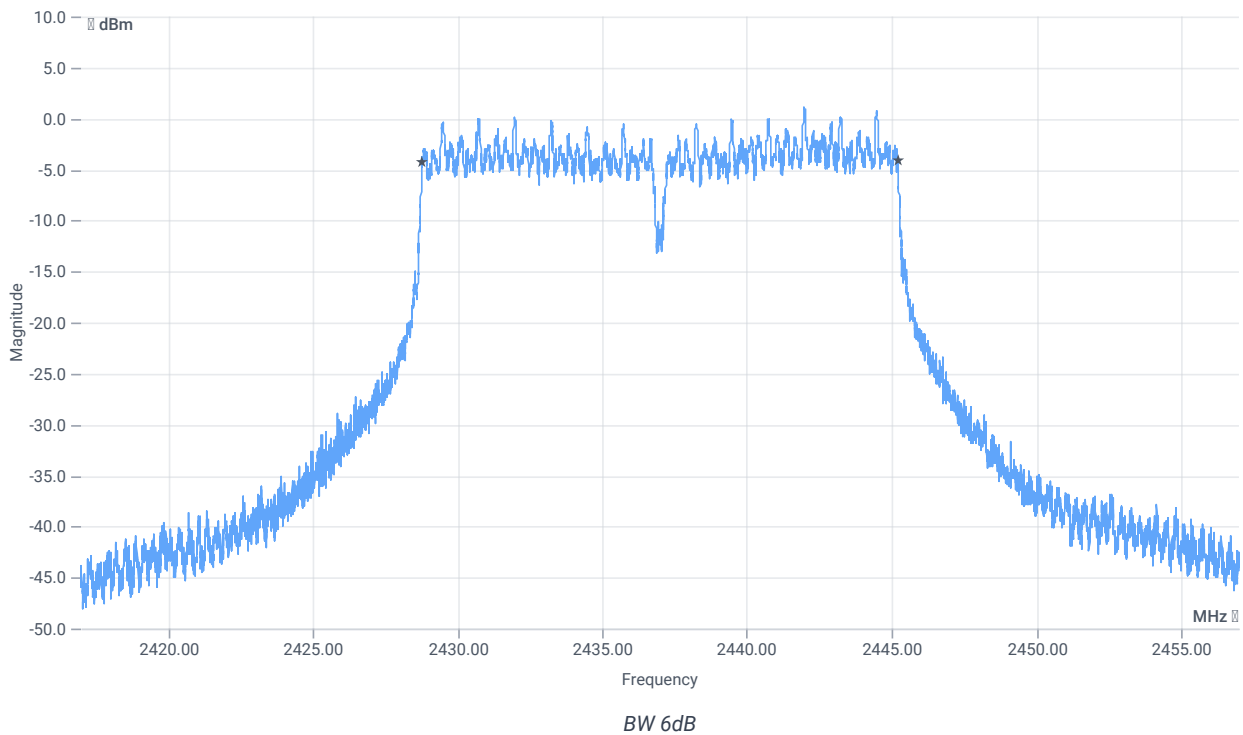
Test at TX 2437 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 8.60 | dBm | INFO |
| Ref. frequency | -- | -- | 2431.610 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.60 8.8 20 |
| Start [MHz] Stop [MHz] | 2417.000 2457.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500 | -- | 16440 | kHz | PASS |

Verdict

PASS

FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 26.01.2024 13:06:11 |
| Ambit temp [°C] humidity [rel%] | 28.2 34 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| EUT port | EUT2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/ |
| Switch bits | 00100010:00010001:00000000:00000001 |

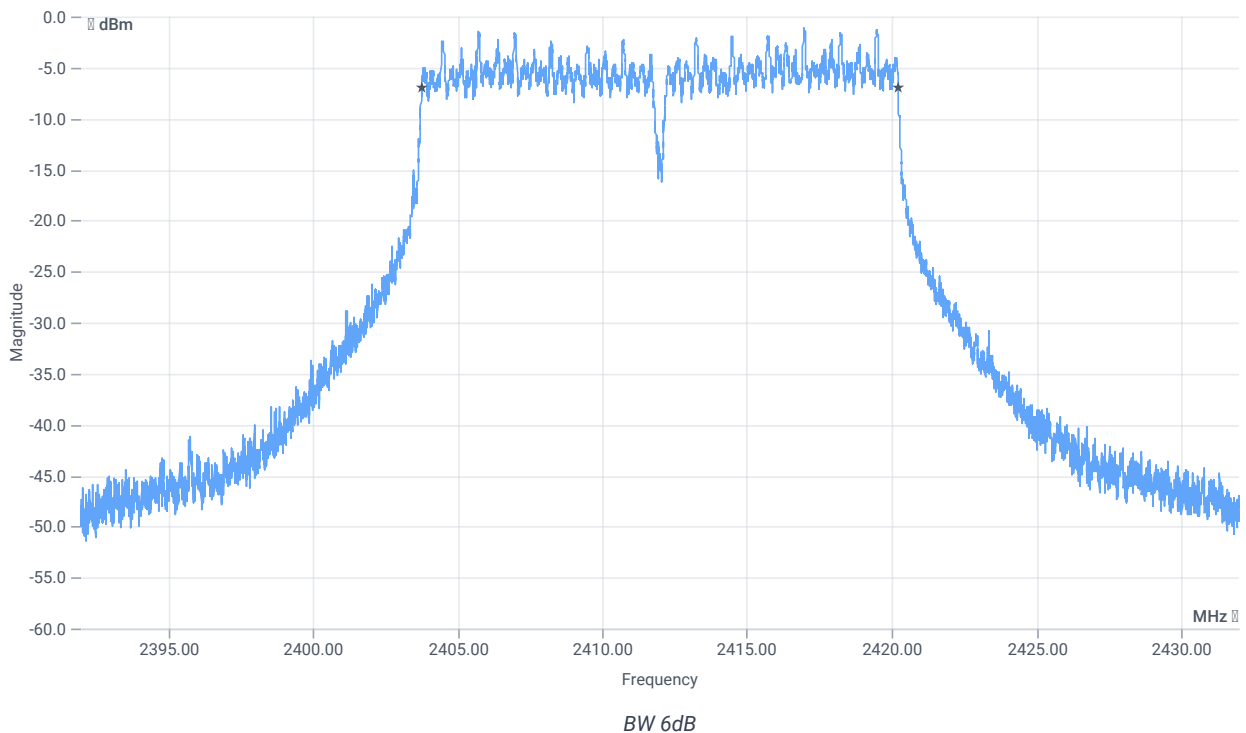
Test at TX 2412 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 7.39 | dBm | INFO |
| Ref. frequency | -- | -- | 2417.000 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.39 8.82 20 |
| Start [MHz] Stop [MHz] | 2392.000 2432.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500 | -- | 16456 | kHz | PASS |

Verdict

PASS

FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 26.01.2024 12:50:24 |
| Ambit temp [°C] humidity [rel%] | 27.4 35 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

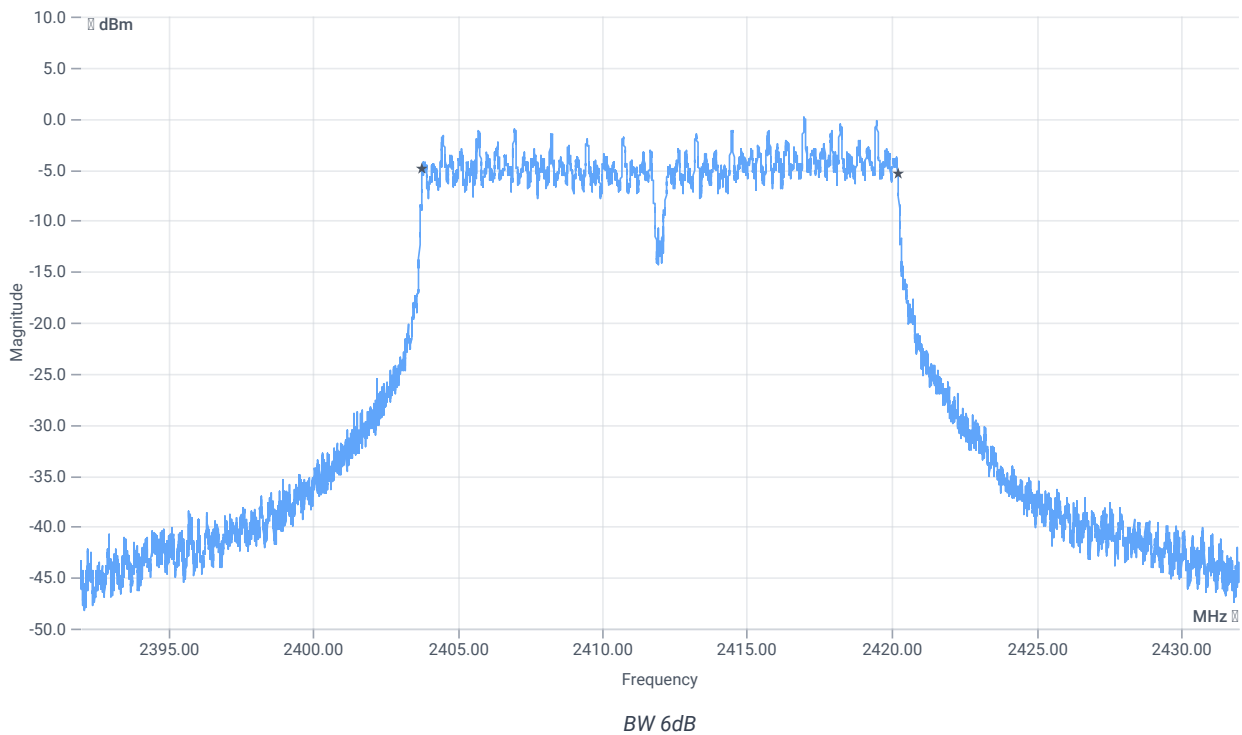
Test at TX 2412 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 8.20 | dBm | INFO |
| Ref. frequency | -- | -- | 2417.000 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.20 8.77 20 |
| Start [MHz] Stop [MHz] | 2392.000 2432.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500 | -- | 16420 | kHz | PASS |

Verdict

PASS

FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|---|
| TC start | 26.01.2024 12:11:14 |
| Ambit temp [°C] humidity [rel%] | 27.7 34 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| EUT port | EUT2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/ |
| Switch bits | 00100010:00010001:00000000:00000001 |

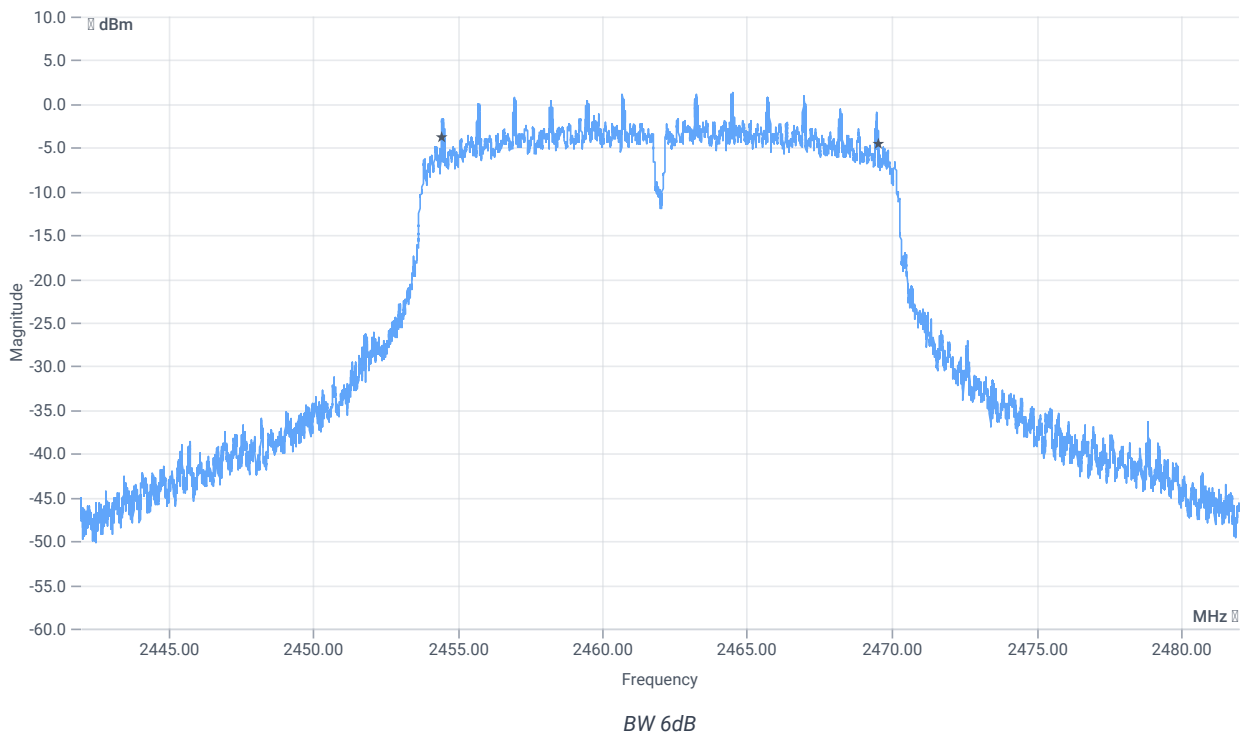
Test at TX 2462 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 8.82 | dBm | INFO |
| Ref. frequency | -- | -- | 2459.900 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.82 8.87 20 |
| Start [MHz] Stop [MHz] | 2442.000 2482.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500 | -- | 15116 | kHz | PASS |

Verdict

PASS

FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|---|
| TC start | 26.01.2024 11:55:28 |
| Ambit temp [°C] humidity [rel%] | 27.5 34 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

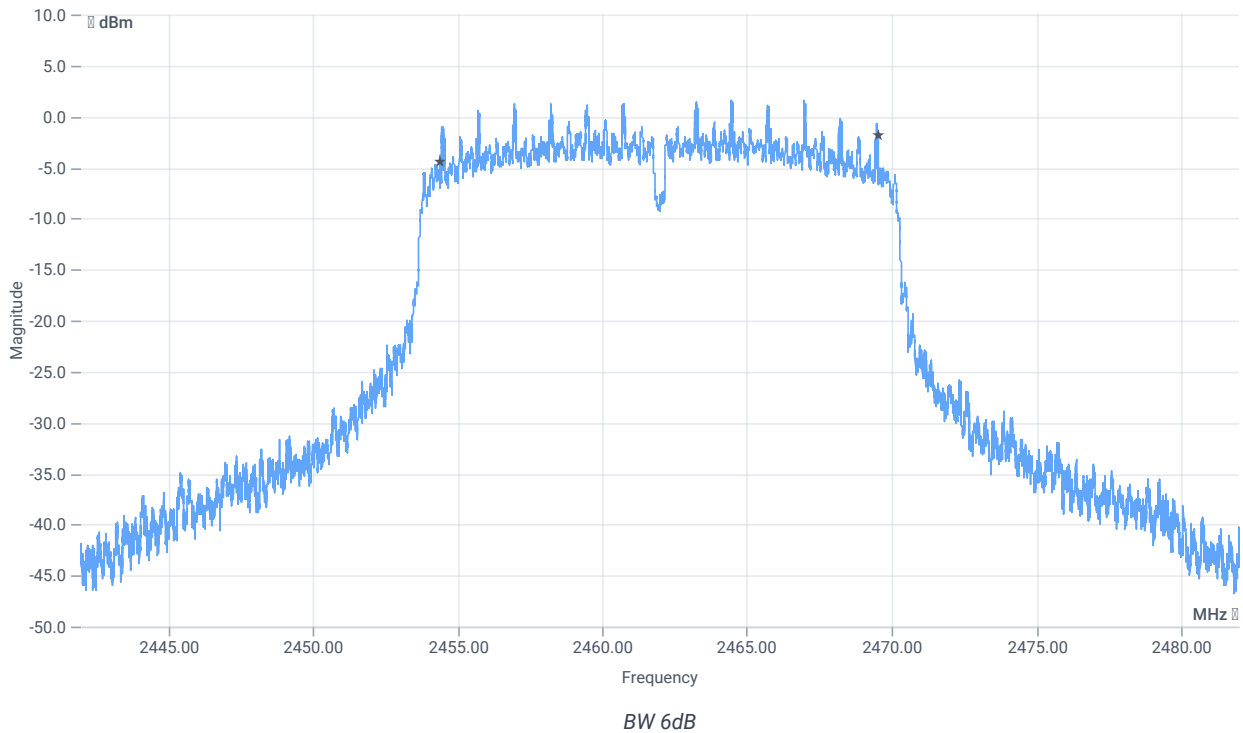
Test at TX 2462 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 10.18 | dBm | INFO |
| Ref. frequency | -- | -- | 2464.800 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 15.18 8.84 25 |
| Start [MHz] Stop [MHz] | 2442.000 2482.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500 | -- | 15104 | kHz | PASS |

Verdict

PASS

FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|---|
| TC start | 26.01.2024 11:38:48 |
| Ambit temp [°C] humidity [rel%] | 27.2 35 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| EUT port | EUT2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/ |
| Switch bits | 00100010:00010001:00000000:00000001 |

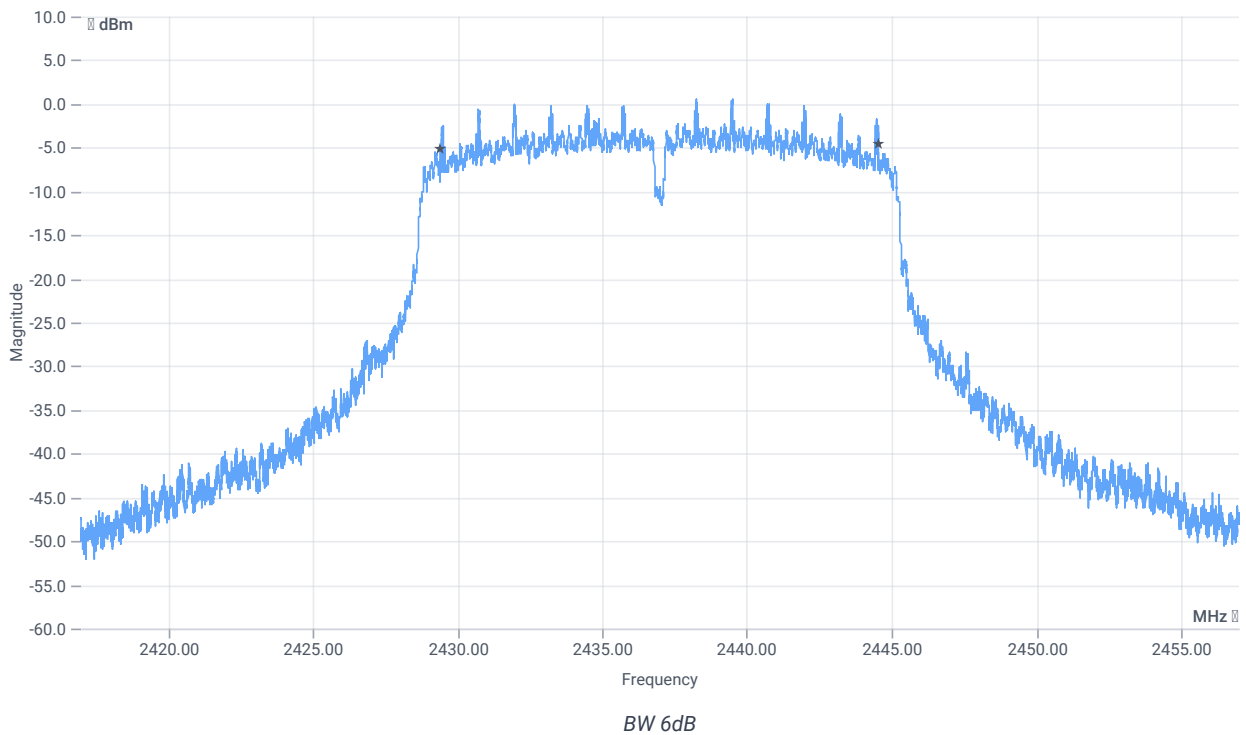
Test at TX 2437 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 8.08 | dBm | INFO |
| Ref. frequency | -- | -- | 2433.600 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.08 8.83 20 |
| Start [MHz] Stop [MHz] | 2417.000 2457.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500 | -- | 15120 | kHz | PASS |

Verdict

PASS

FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|---|
| TC start | 26.01.2024 11:23:06 |
| Ambit temp [°C] humidity [rel%] | 26.8 35 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

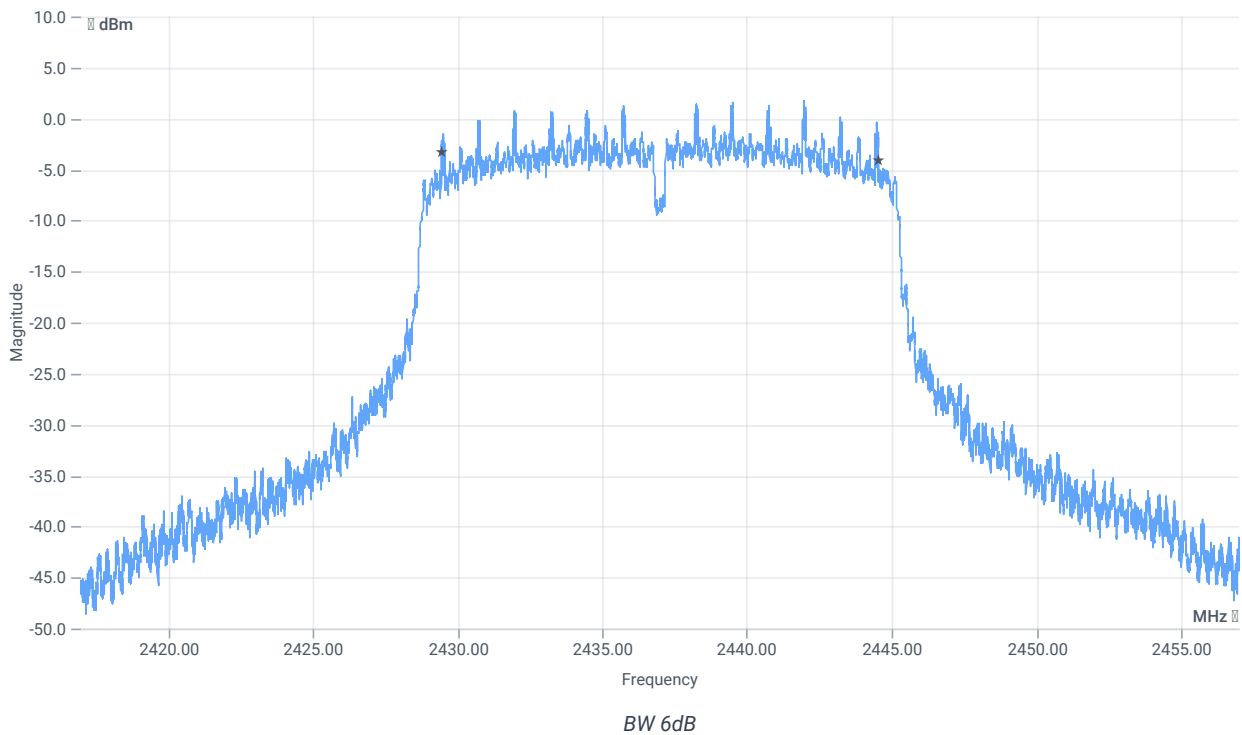
Test at TX 2437 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 9.32 | dBm | INFO |
| Ref. frequency | -- | -- | 2439.300 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 14.32 8.8 25 |
| Start [MHz] Stop [MHz] | 2417.000 2457.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500 | -- | 15112 | kHz | PASS |

Verdict

PASS

FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|---|
| TC start | 24.01.2024 18:36:50 |
| Ambit temp [°C] humidity [rel%] | 27.6 30 |
| System version | 5.0.0.1 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| EUT port | EUT2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/ |
| Switch bits | 00100010:00010001:00000000:00000001 |

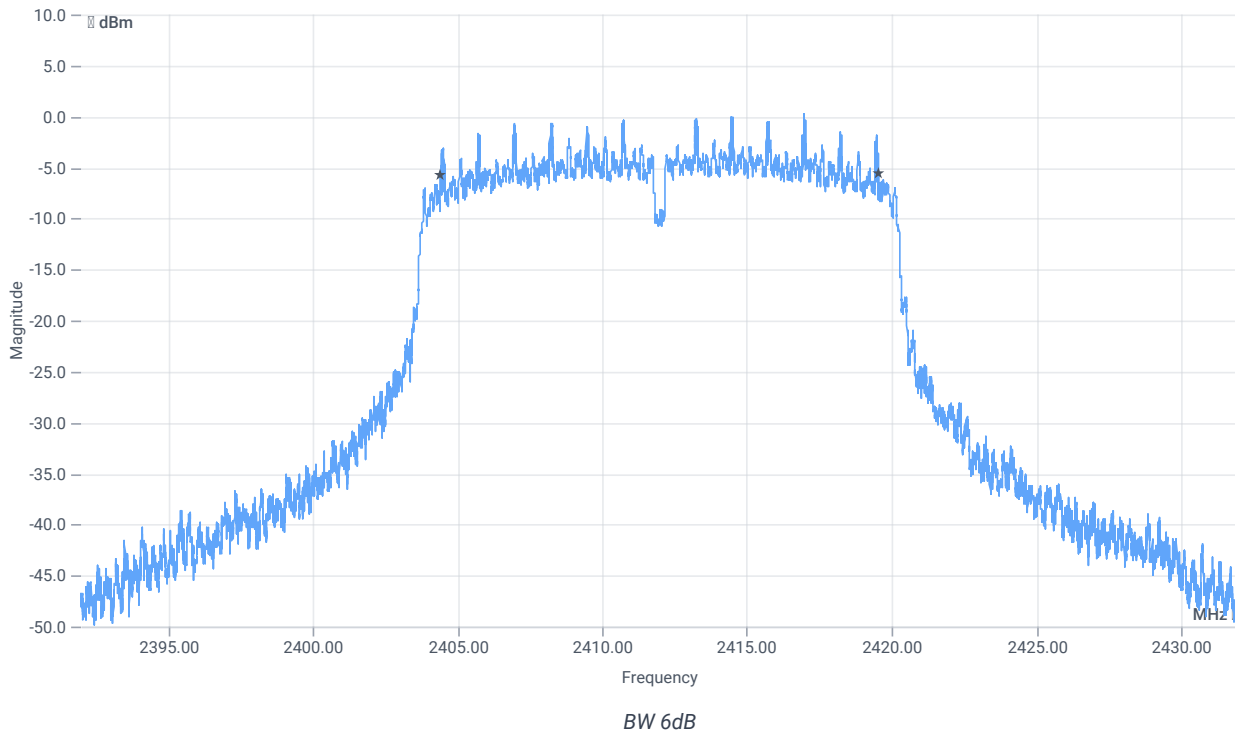
Test at TX 2412 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 8.15 | dBm | INFO |
| Ref. frequency | -- | -- | 2413.300 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.15 8.82 20 |
| Start [MHz] Stop [MHz] | 2392.000 2432.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500 | -- | 15120 | kHz | PASS |

Verdict

PASS

FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|---|
| TC start | 24.01.2024 18:21:11 |
| Ambit temp [°C] humidity [rel%] | 27.6 30 |
| System version | 5.0.0.1 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

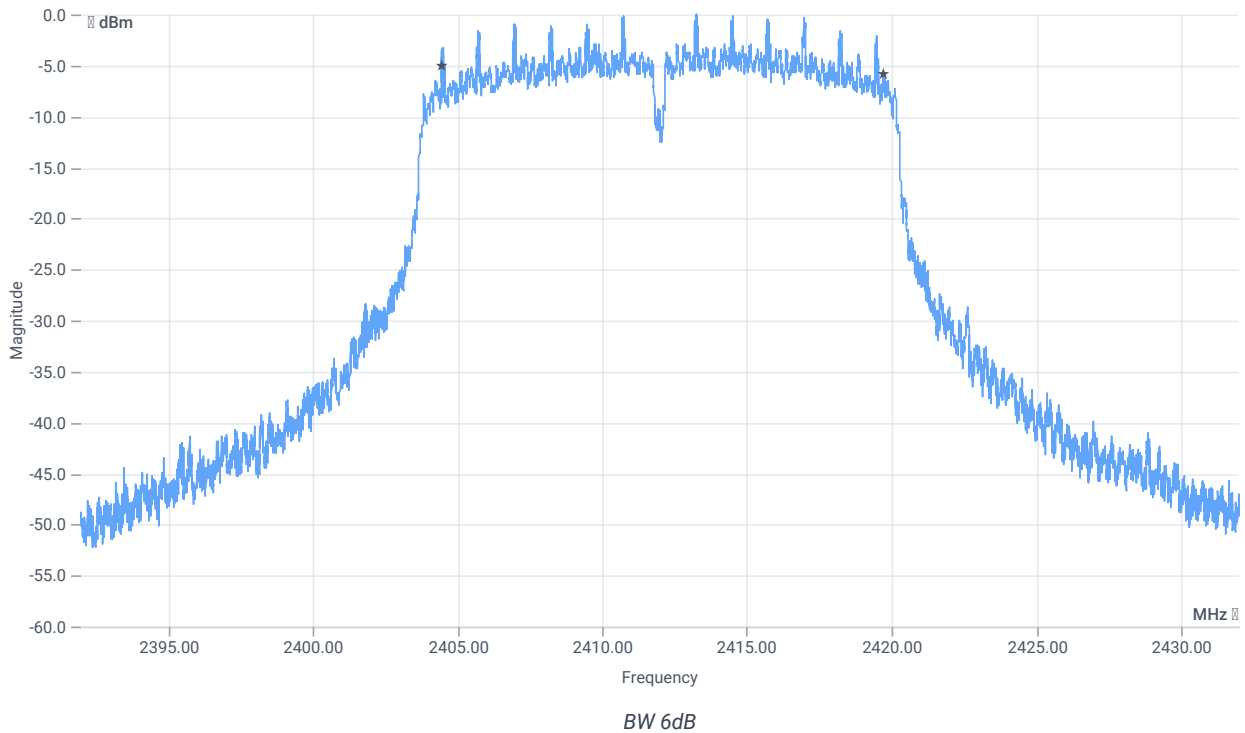
Test at TX 2412 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 7.23 | dBm | INFO |
| Ref. frequency | -- | -- | 2411.100 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.23 8.77 20 |
| Start [MHz] Stop [MHz] | 2392.000 2432.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500 | -- | 15296 | kHz | PASS |

Verdict

PASS

FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|---|
| TC start | 24.01.2024 18:03:11 |
| Ambit temp [°C] humidity [rel%] | 27.7 30 |
| System version | 5.0.0.1 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| EUT port | EUT2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/ |
| Switch bits | 00100010:00010001:00000000:00000001 |

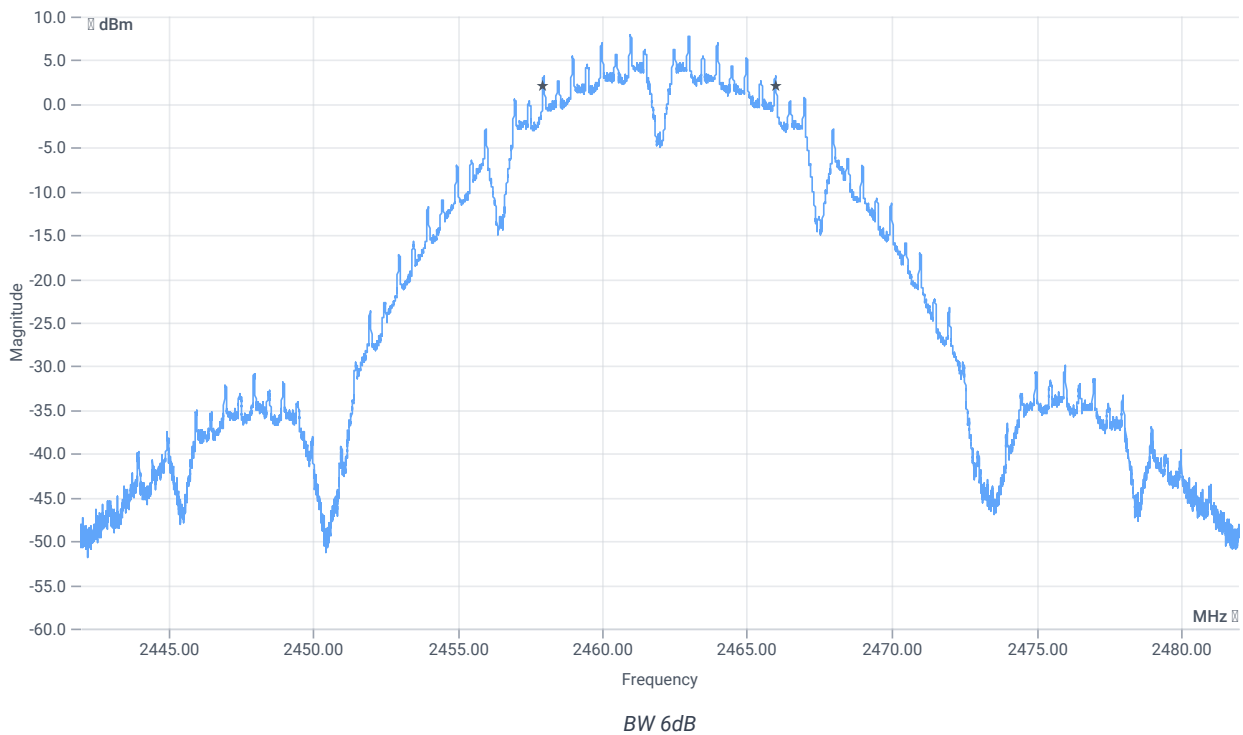
Test at TX 2462 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 11.12 | dBm | INFO |
| Ref. frequency | -- | -- | 2460.800 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 16.12 8.87 25 |
| Start [MHz] Stop [MHz] | 2442.000 2482.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500 | -- | 8068 | kHz | PASS |

Verdict

PASS

FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|---|
| TC start | 24.01.2024 17:47:29 |
| Ambit temp [°C] humidity [rel%] | 27.7 30 |
| System version | 5.0.0.1 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

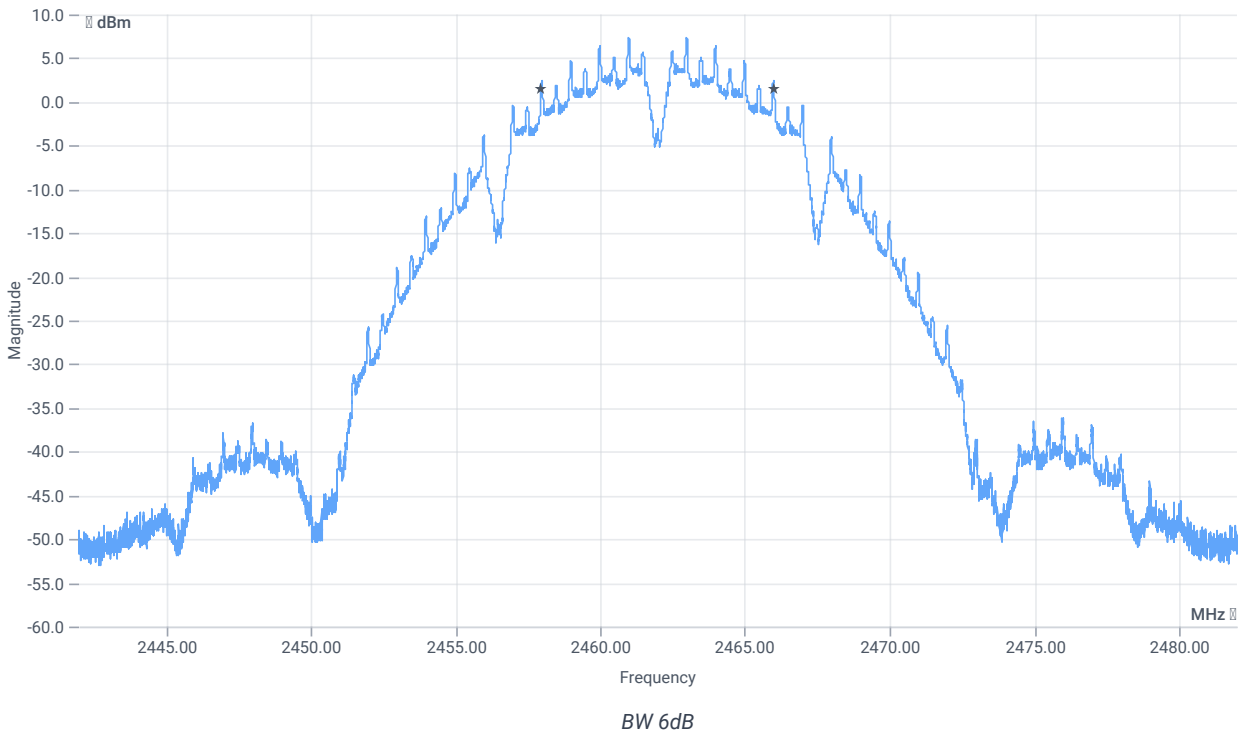
Test at TX 2462 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 10.61 | dBm | INFO |
| Ref. frequency | -- | -- | 2462.000 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 15.61 8.84 25 |
| Start [MHz] Stop [MHz] | 2442.000 2482.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500 | -- | 8060 | kHz | PASS |

Verdict

PASS

FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|---|
| TC start | 24.01.2024 17:30:45 |
| Ambit temp [°C] humidity [rel%] | 27.8 29 |
| System version | 5.0.0.1 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| EUT port | EUT2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/ |
| Switch bits | 00100010:00010001:00000000:00000001 |

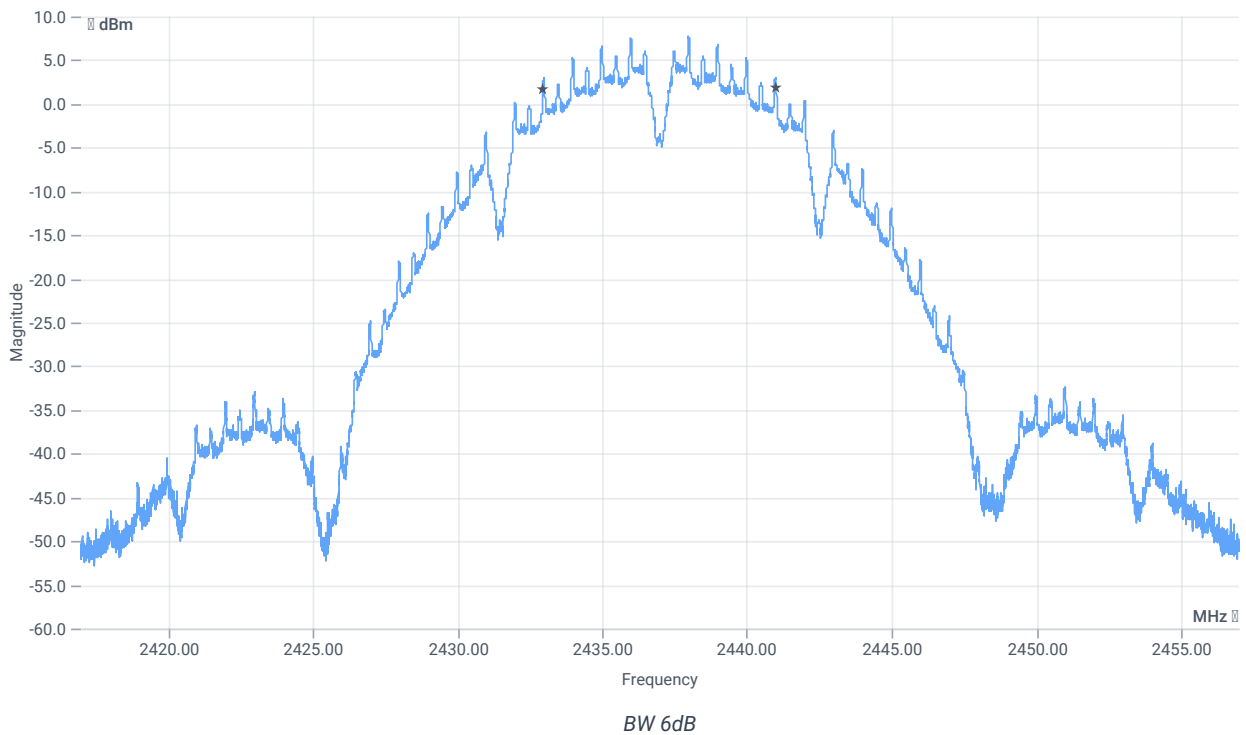
Test at TX 2437 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 10.96 | dBm | INFO |
| Ref. frequency | -- | -- | 2438.200 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 15.96 8.83 25 |
| Start [MHz] Stop [MHz] | 2417.000 2457.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500 | -- | 8068 | kHz | PASS |

Verdict

PASS

FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|---|
| TC start | 24.01.2024 17:15:06 |
| Ambit temp [°C] humidity [rel%] | 27.9 29 |
| System version | 5.0.0.1 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

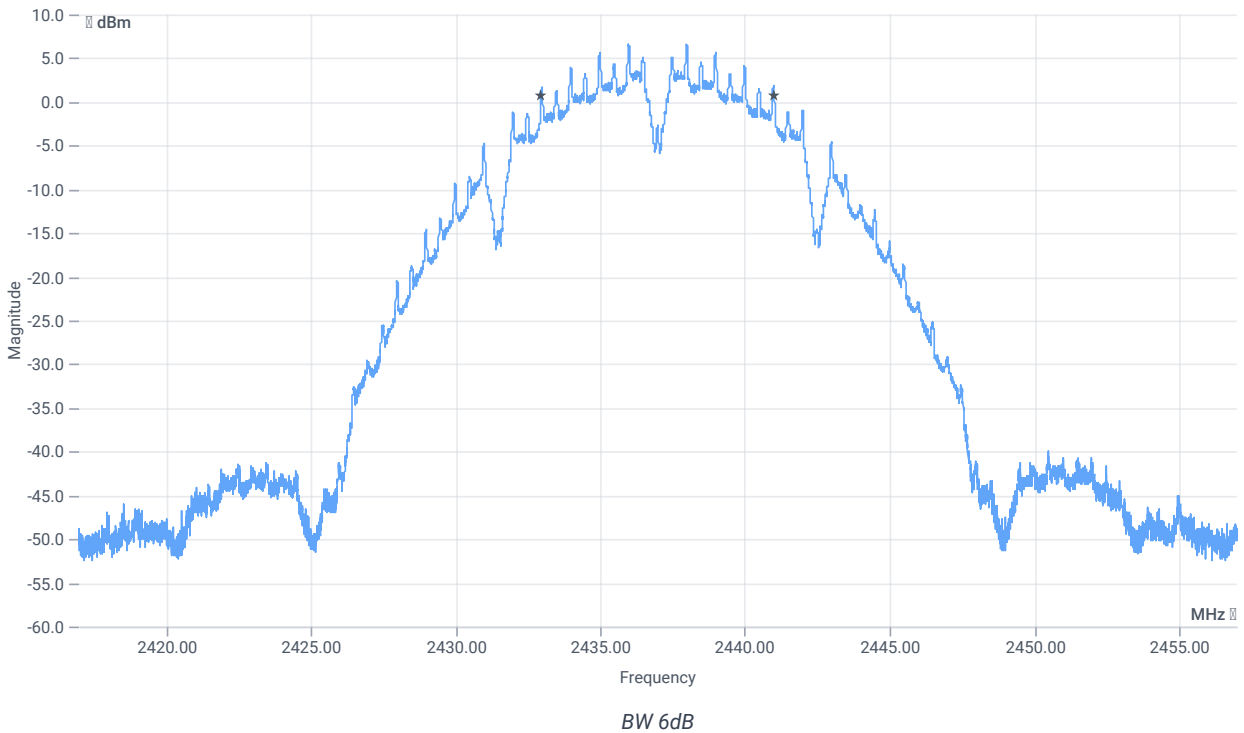
Test at TX 2437 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 9.93 | dBm | INFO |
| Ref. frequency | -- | -- | 2438.200 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 14.93 8.8 25 |
| Start [MHz] Stop [MHz] | 2417.000 2457.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500 | -- | 8064 | kHz | PASS |

Verdict

PASS

FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|---|
| TC start | 24.01.2024 16:58:15 |
| Ambit temp [°C] humidity [rel%] | 28.1 29 |
| System version | 5.0.0.1 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| EUT port | EUT2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/ |
| Switch bits | 00100010:00010001:00000000:00000001 |

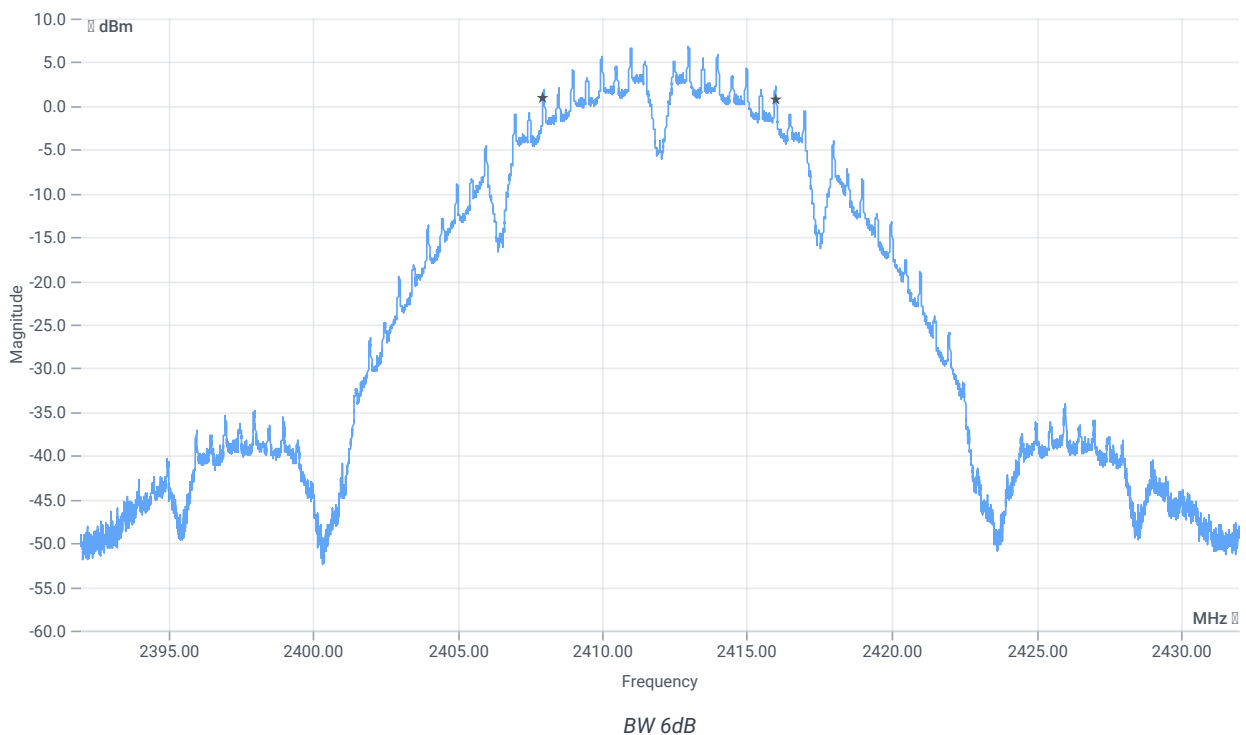
Test at TX 2412 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 10.08 | dBm | INFO |
| Ref. frequency | -- | -- | 2413.200 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 15.08 8.82 25 |
| Start [MHz] Stop [MHz] | 2392.000 2432.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500 | -- | 8068 | kHz | PASS |

Verdict

PASS

FCC 15.247 # Bandwidth 6dB DTS ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|---|
| TC start | 24.01.2024 16:42:36 |
| Ambit temp [°C] humidity [rel%] | 28.5 29 |
| System version | 5.0.0.1 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 6dB DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

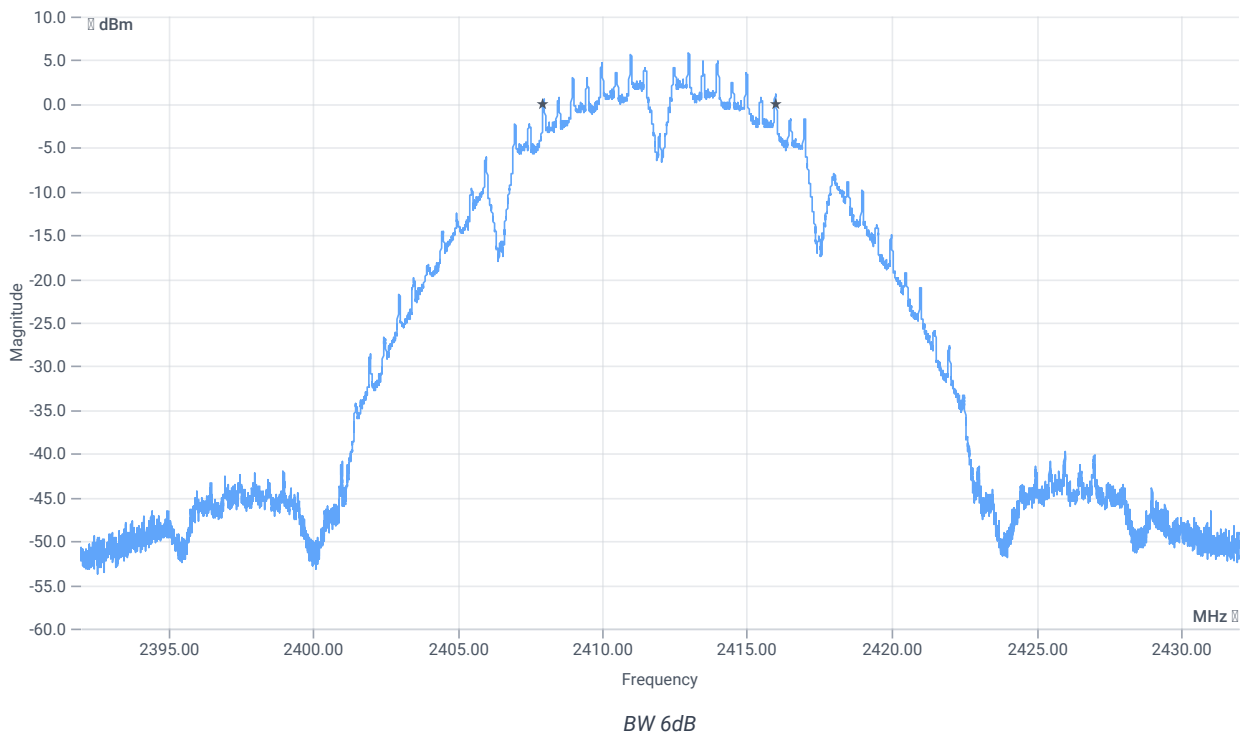
Test at TX 2412 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 9.27 | dBm | INFO |
| Ref. frequency | -- | -- | 2412.000 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 14.27 8.77 25 |
| Start [MHz] Stop [MHz] | 2392.000 2432.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| DTS bandwidth (6dB) | 500 | -- | 8060 | kHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|---|
| TC start | 26.01.2024 14:13:22 |
| Ambit temp [°C] humidity [rel%] | 26.4 37 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| EUT port | EUT2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/ |
| Switch bits | 00100010:00010001:00000000:00000001 |

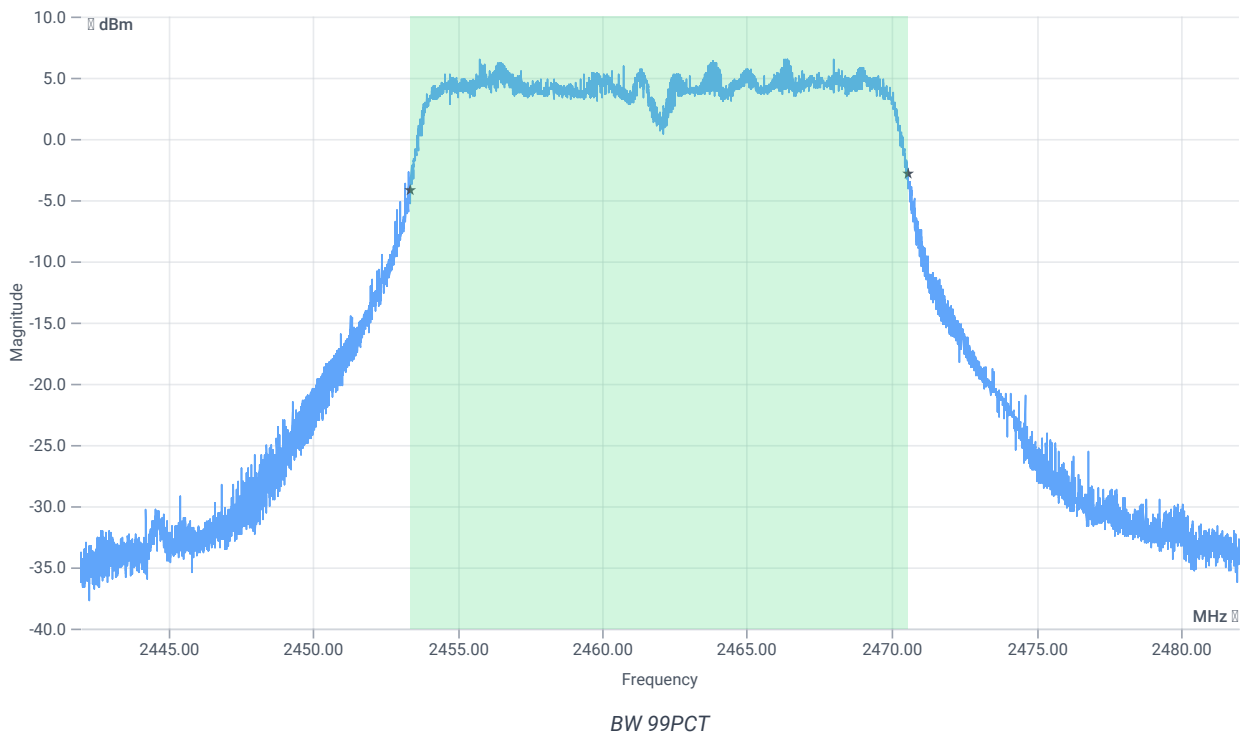
Test at TX 2462 MHz

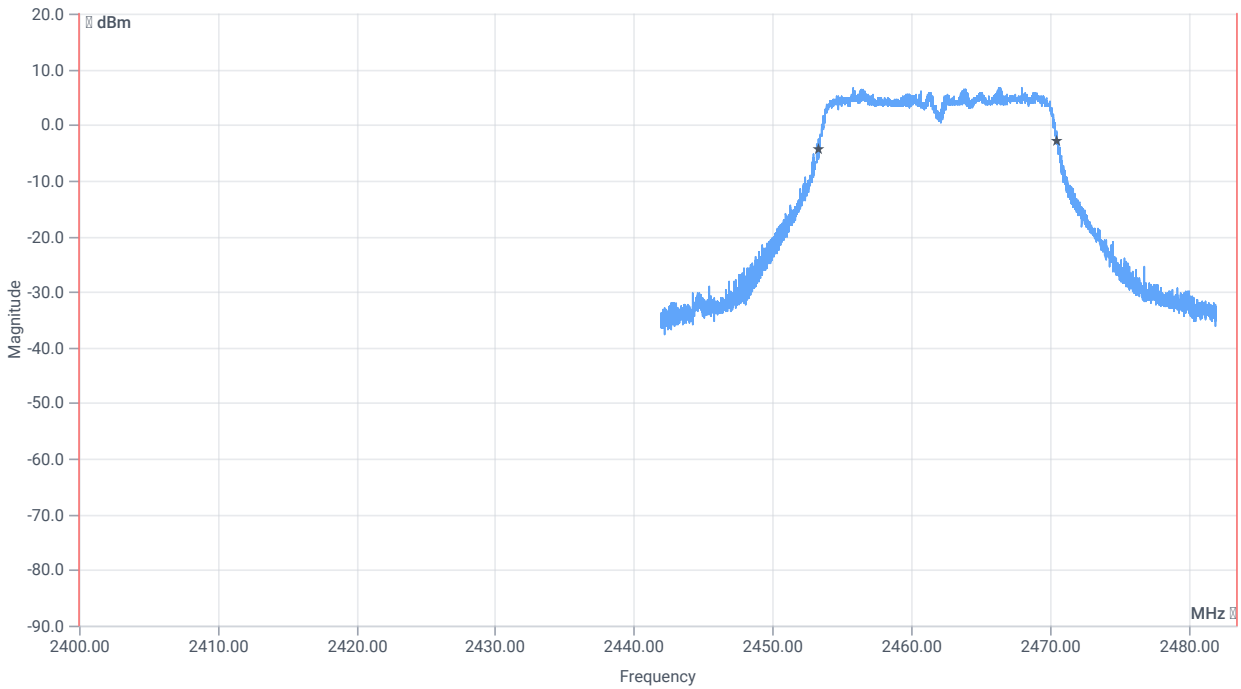
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 9.28 | dBm | INFO |
| Ref. frequency | -- | -- | 2468.890 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 14.28 8.87 25 |
| Start [MHz] Stop [MHz] | 2442.000 2482.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

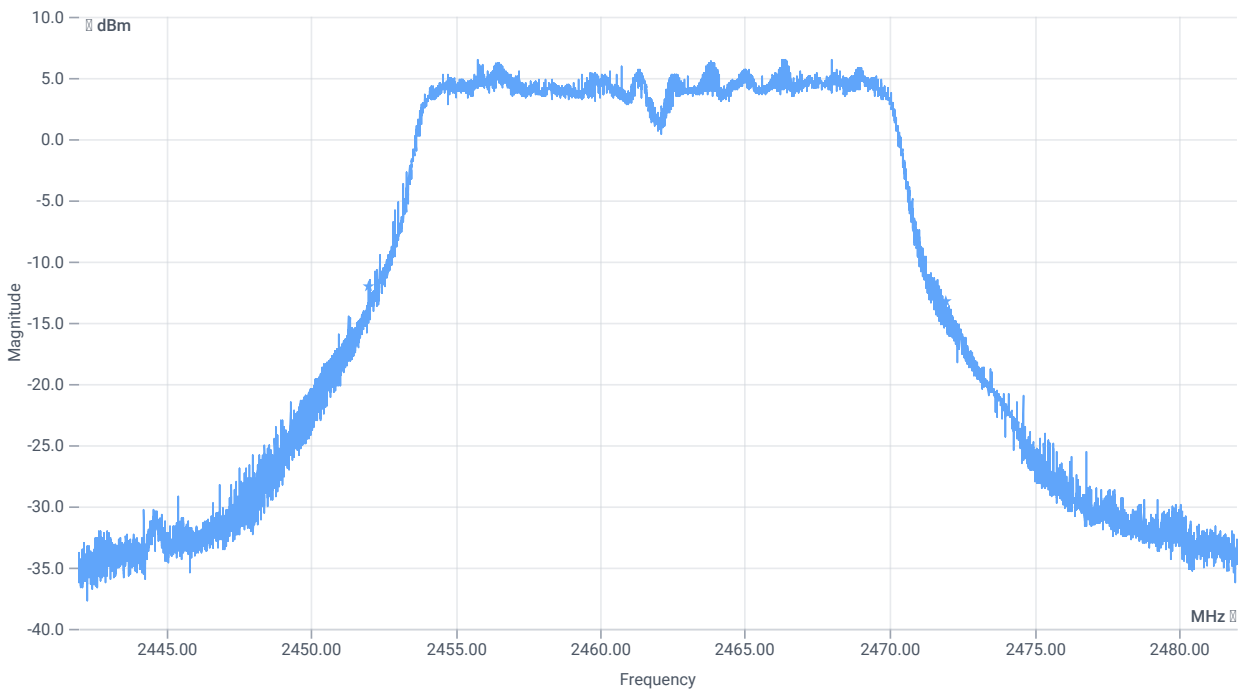




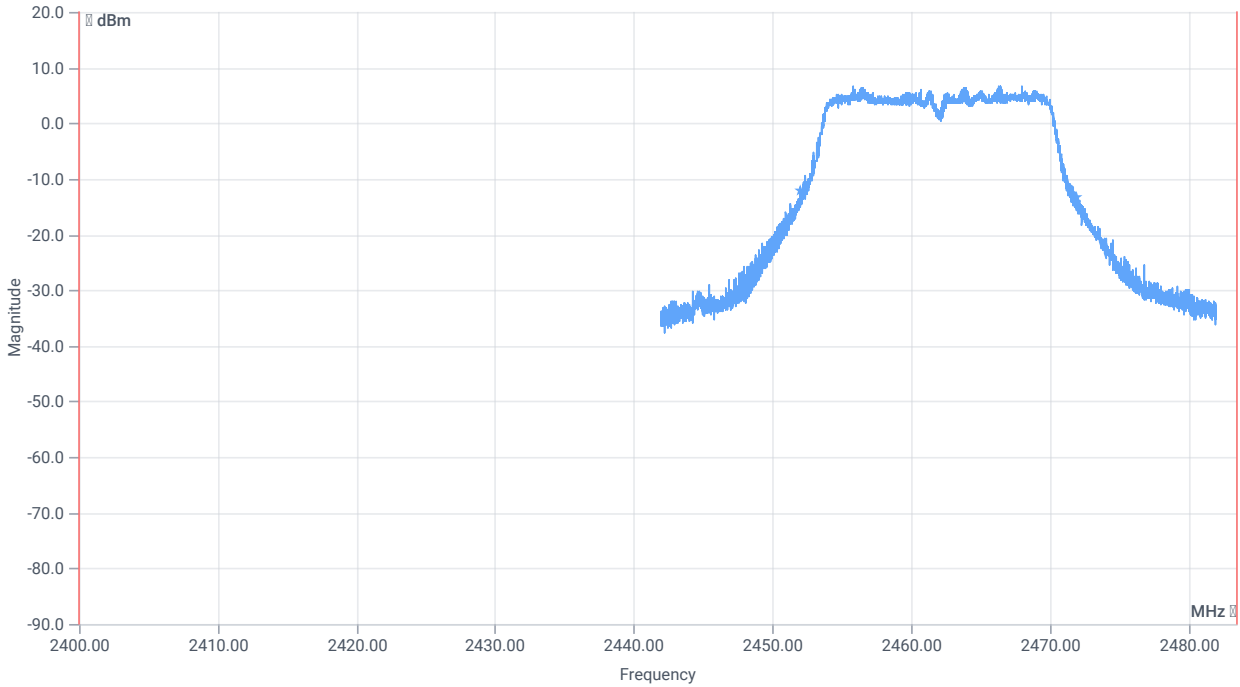
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 17174.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2453.3769 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2470.5511 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 19928 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2451.9920 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2471.9200 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|---|
| TC start | 26.01.2024 13:57:34 |
| Ambit temp [°C] humidity [rel%] | 27.1 35 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

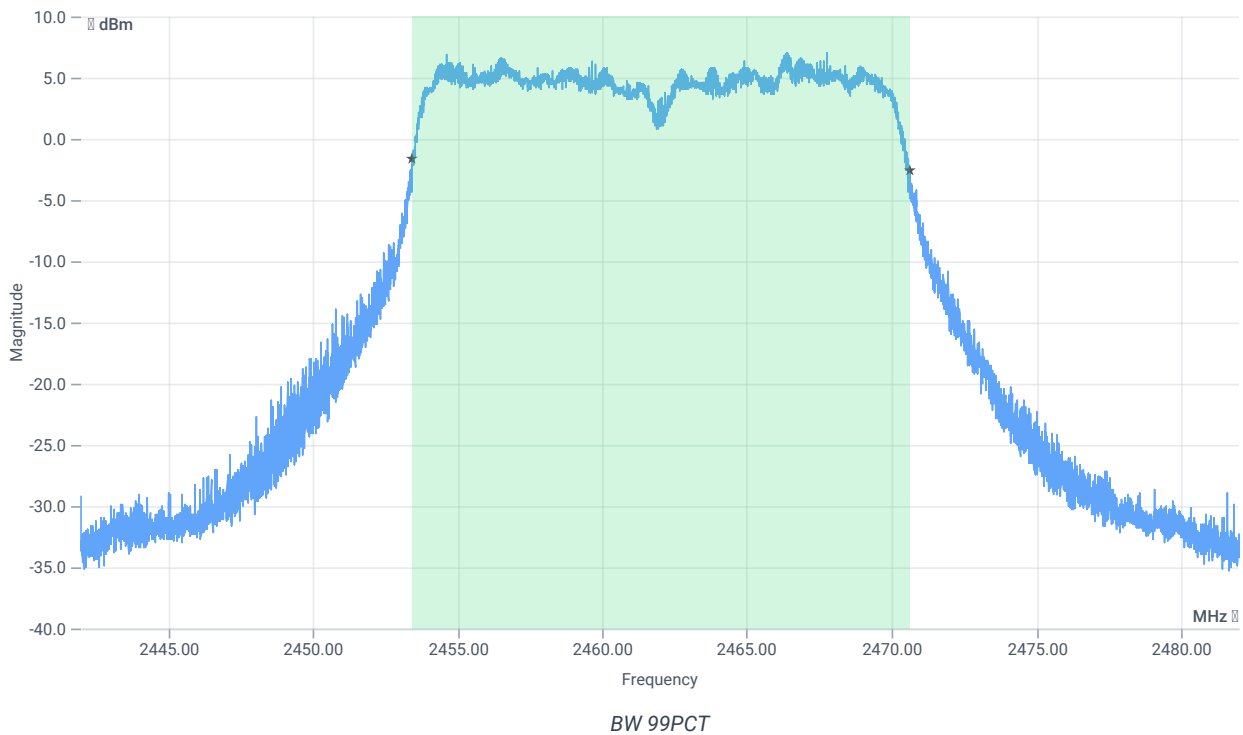
Test at TX 2462 MHz

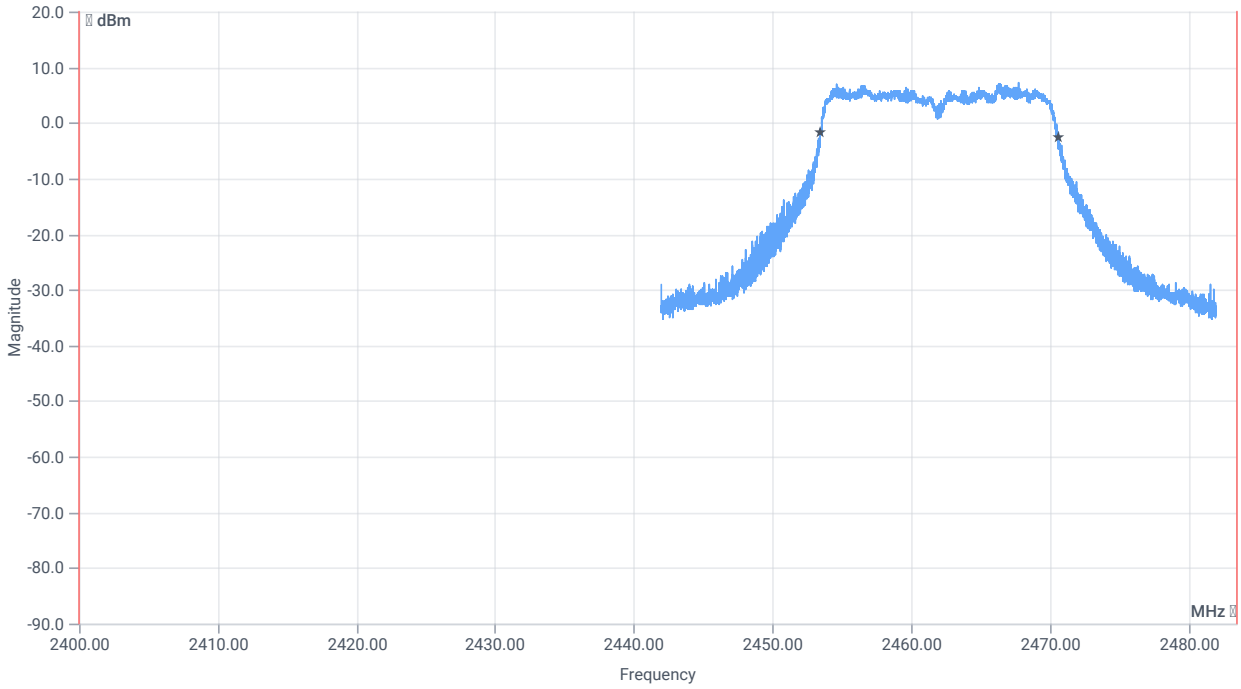
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 9.42 | dBm | INFO |
| Ref. frequency | -- | -- | 2458.100 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 14.42 8.84 25 |
| Start [MHz] Stop [MHz] | 2442.000 2482.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

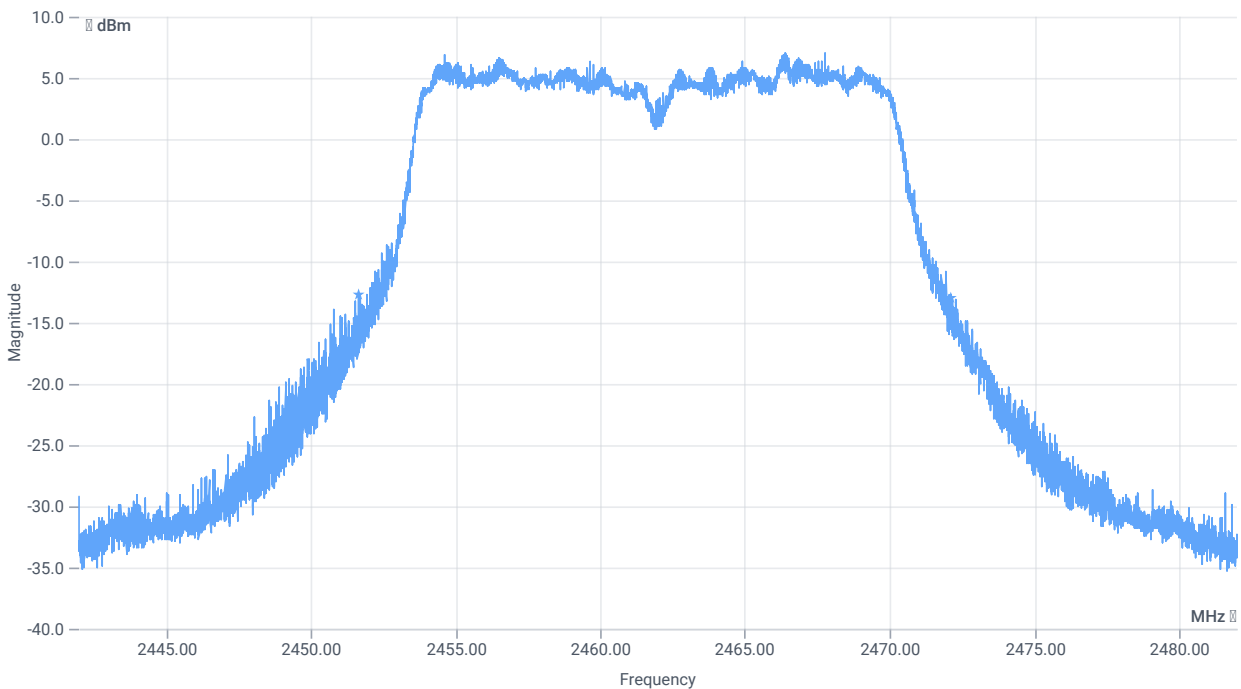




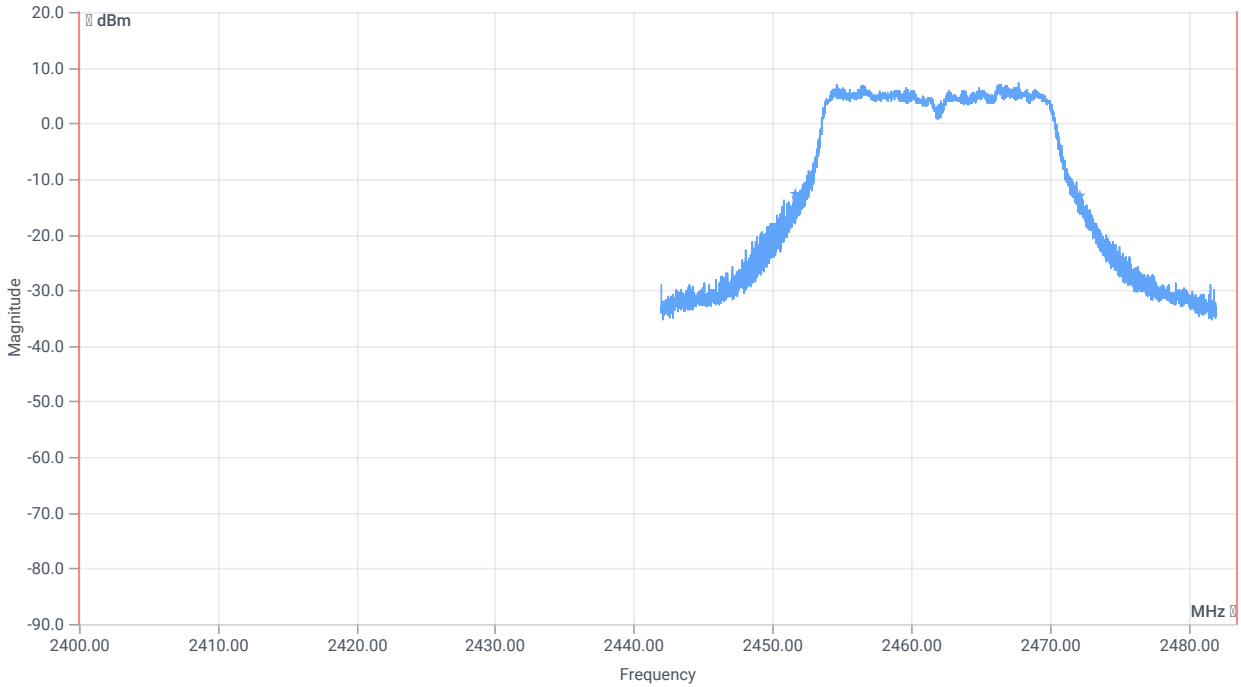
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 17150.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2453.4529 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2470.6031 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 20464 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2451.6600 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2472.1240 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|---|
| TC start | 26.01.2024 13:40:37 |
| Ambit temp [°C] humidity [rel%] | 27.7 34 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| EUT port | EUT2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/ |
| Switch bits | 00100010:00010001:00000000:00000001 |

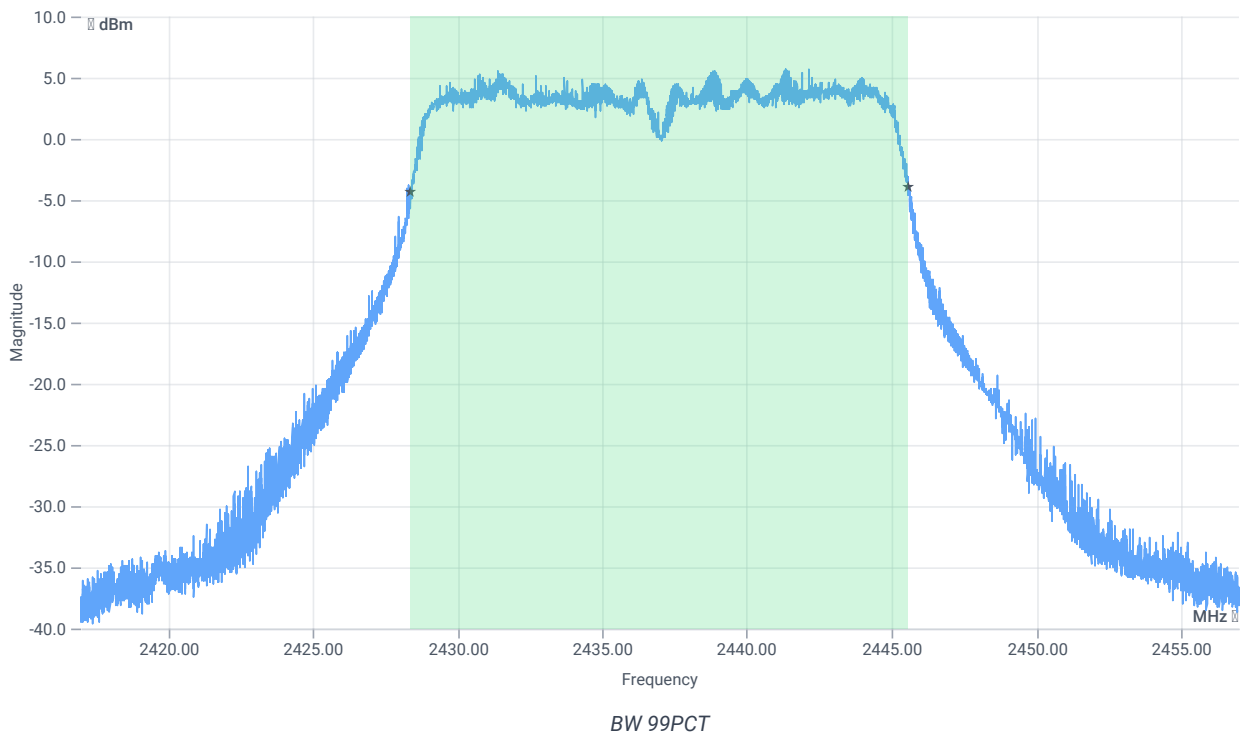
Test at TX 2437 MHz

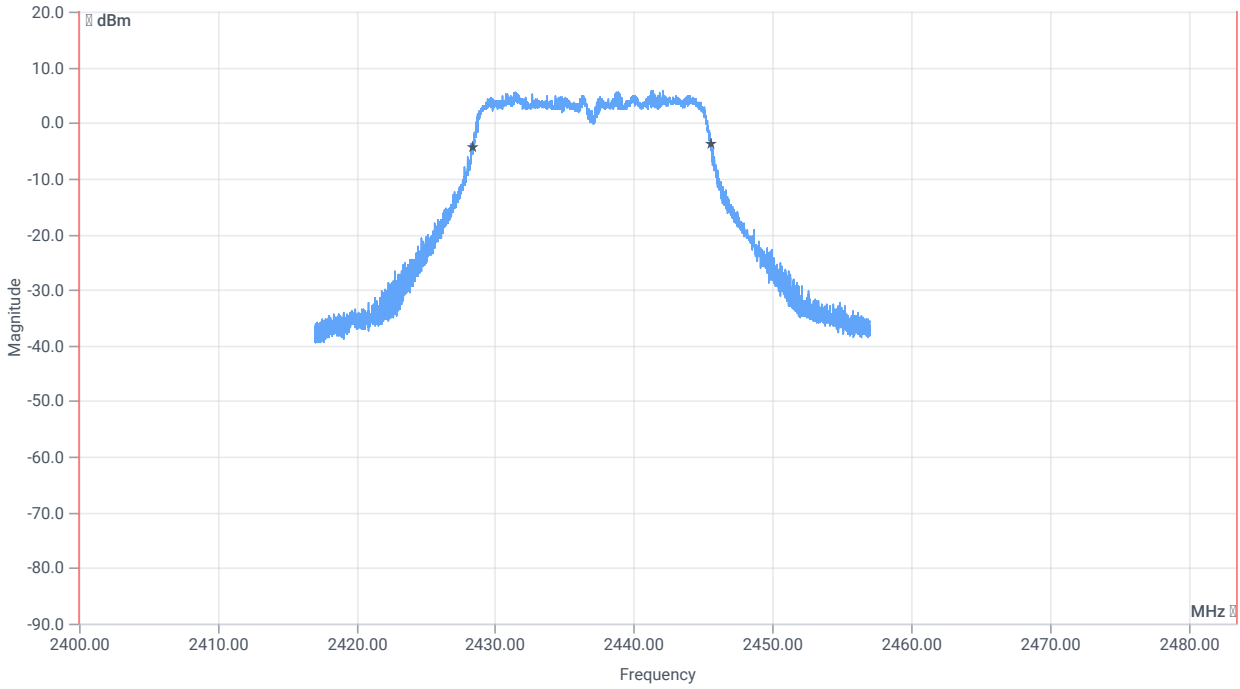
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 7.95 | dBm | INFO |
| Ref. frequency | -- | -- | 2431.610 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.95 8.83 20 |
| Start [MHz] Stop [MHz] | 2417.000 2457.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

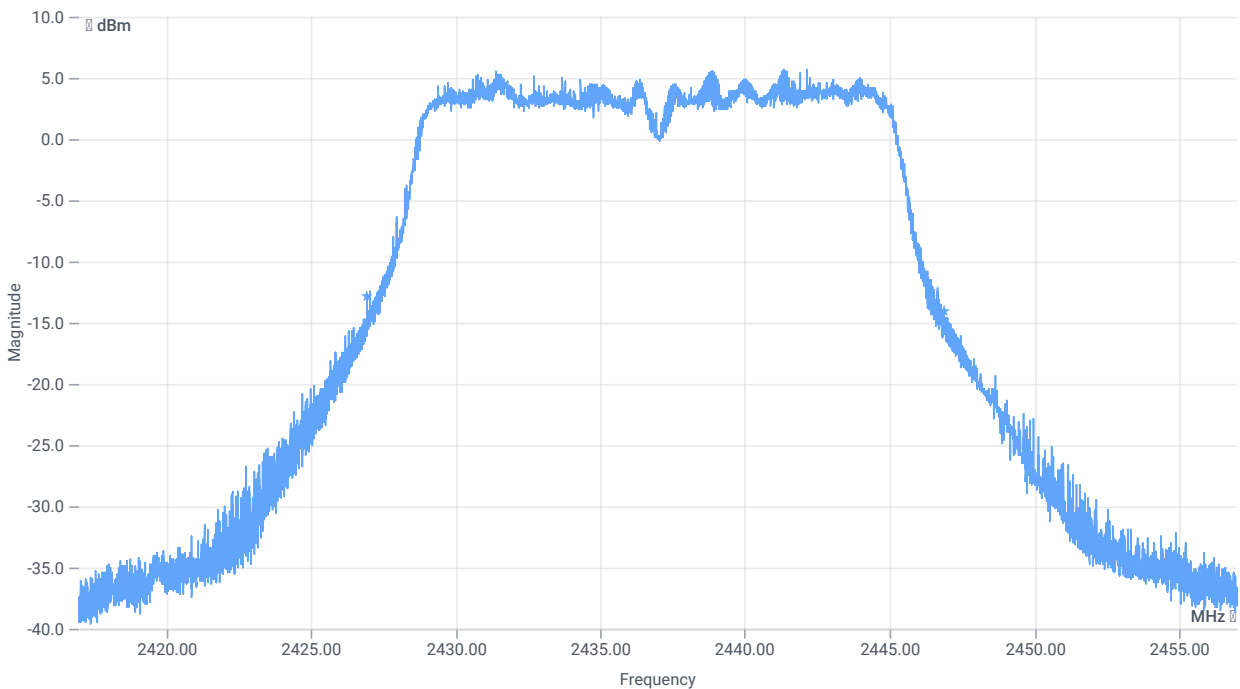




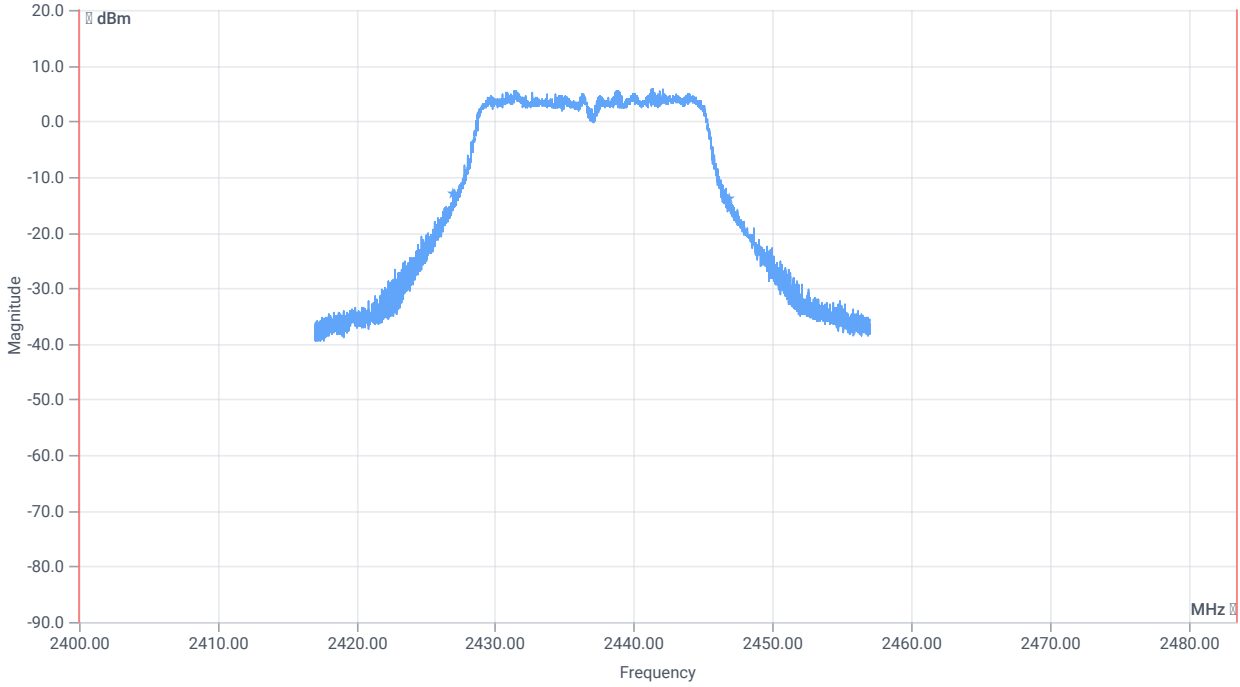
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 17162.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2428.3889 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2445.5511 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 19912 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2426.9520 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2446.8640 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|---|
| TC start | 26.01.2024 13:24:48 |
| Ambit temp [°C] humidity [rel%] | 28.2 33 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

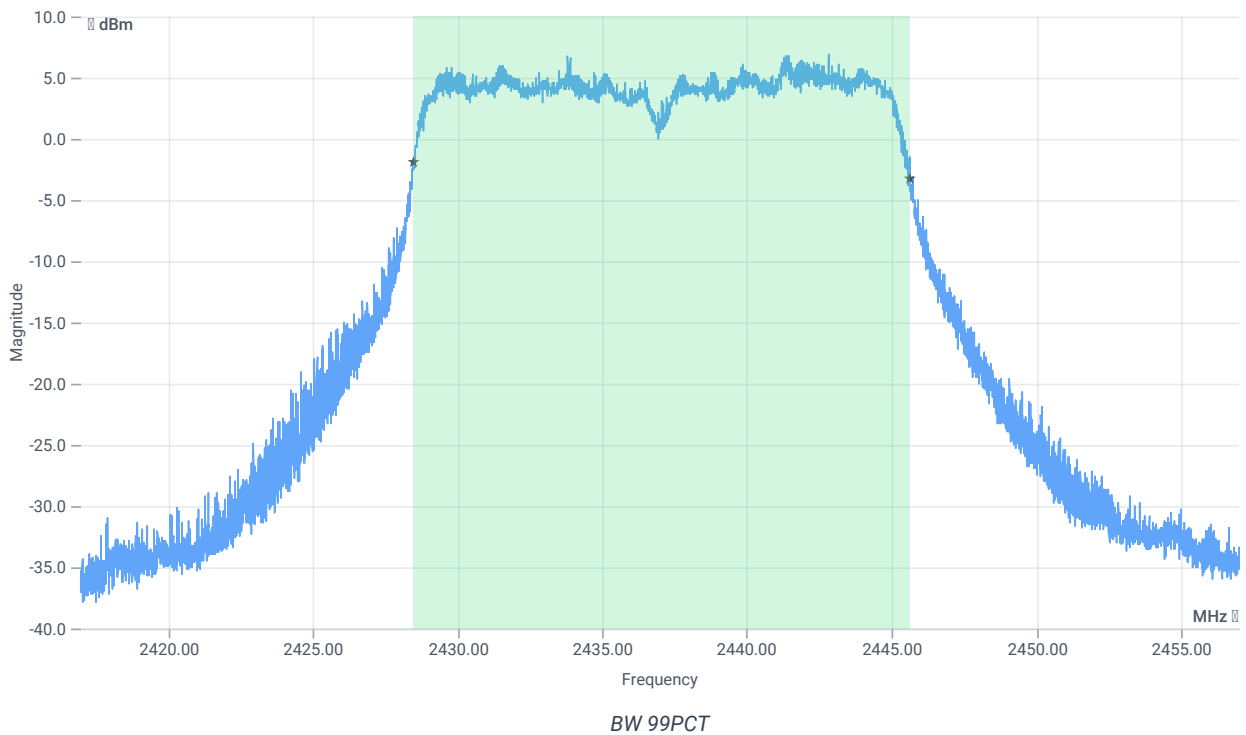
Test at TX 2437 MHz

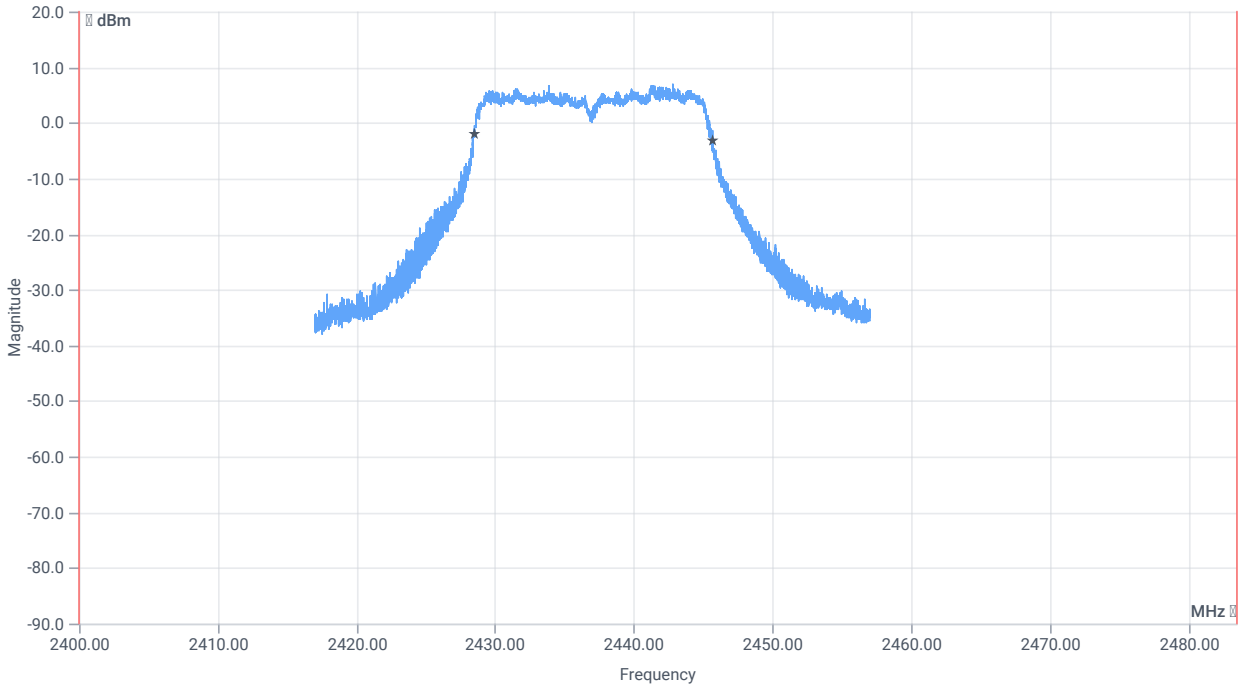
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 8.67 | dBm | INFO |
| Ref. frequency | -- | -- | 2442.190 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.67 8.8 20 |
| Start [MHz] Stop [MHz] | 2417.000 2457.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

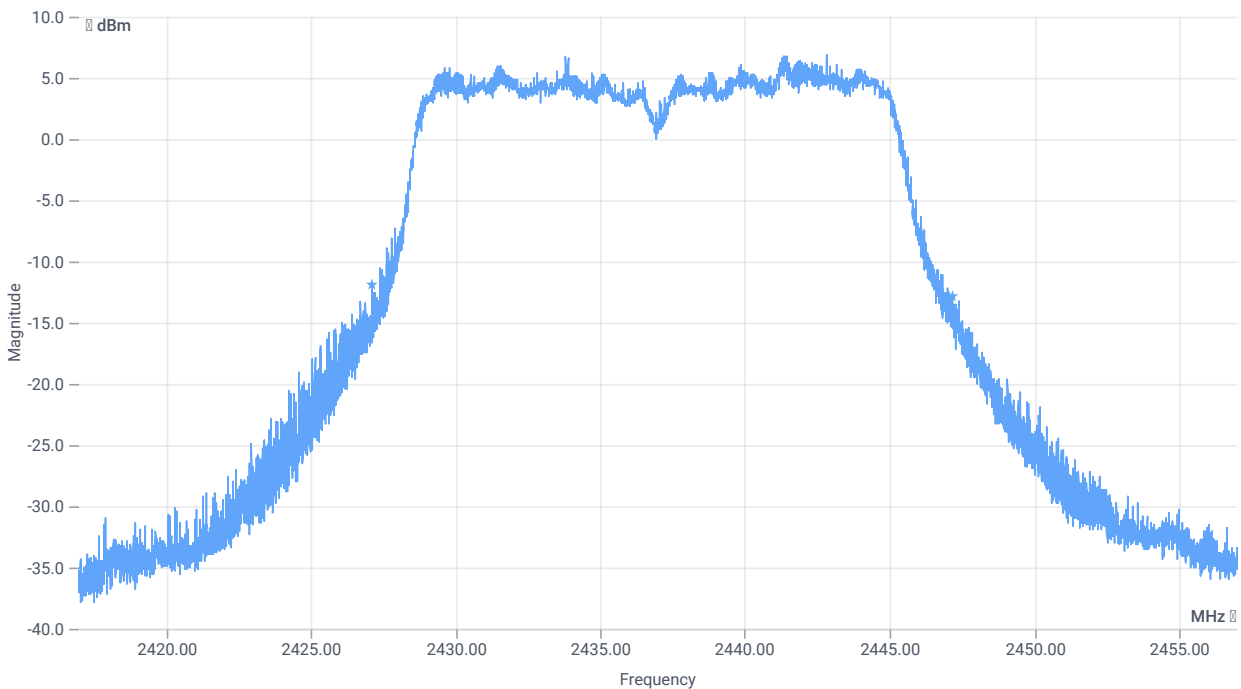




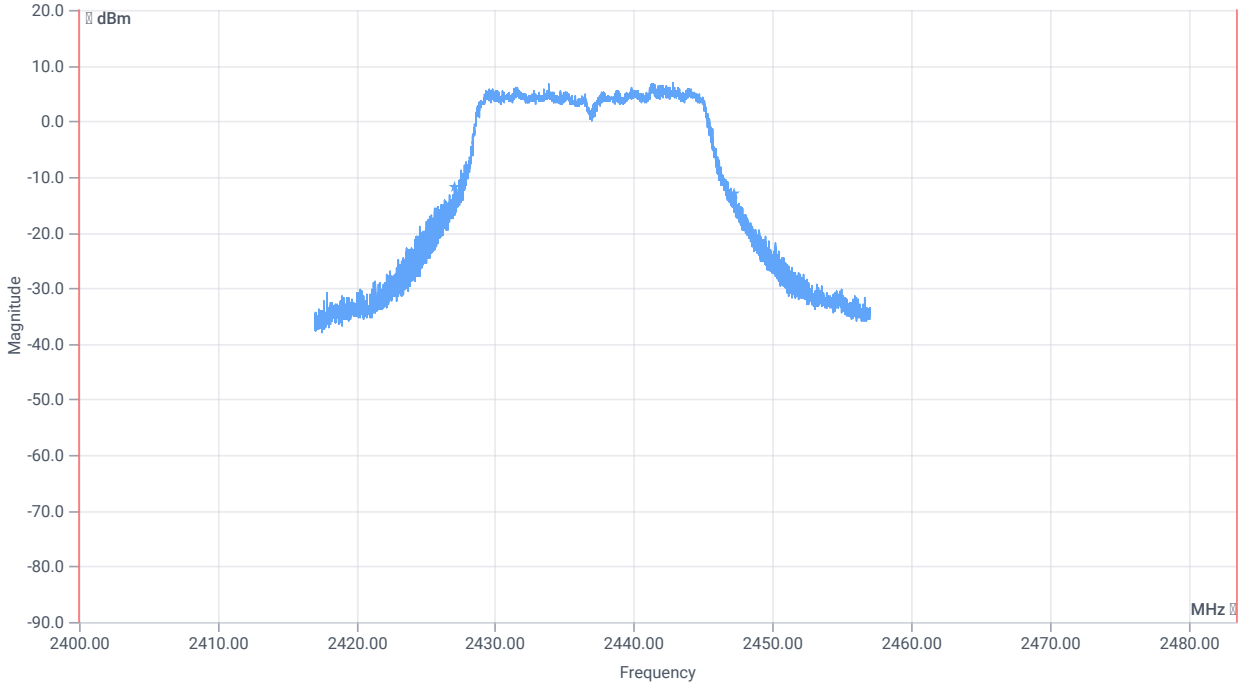
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 17158.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2428.4889 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2445.6471 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 20092 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2427.1000 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2447.1920 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|---|
| TC start | 26.01.2024 13:07:30 |
| Ambit temp [°C] humidity [rel%] | 28.3 34 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| EUT port | EUT2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/ |
| Switch bits | 00100010:00010001:00000000:00000001 |

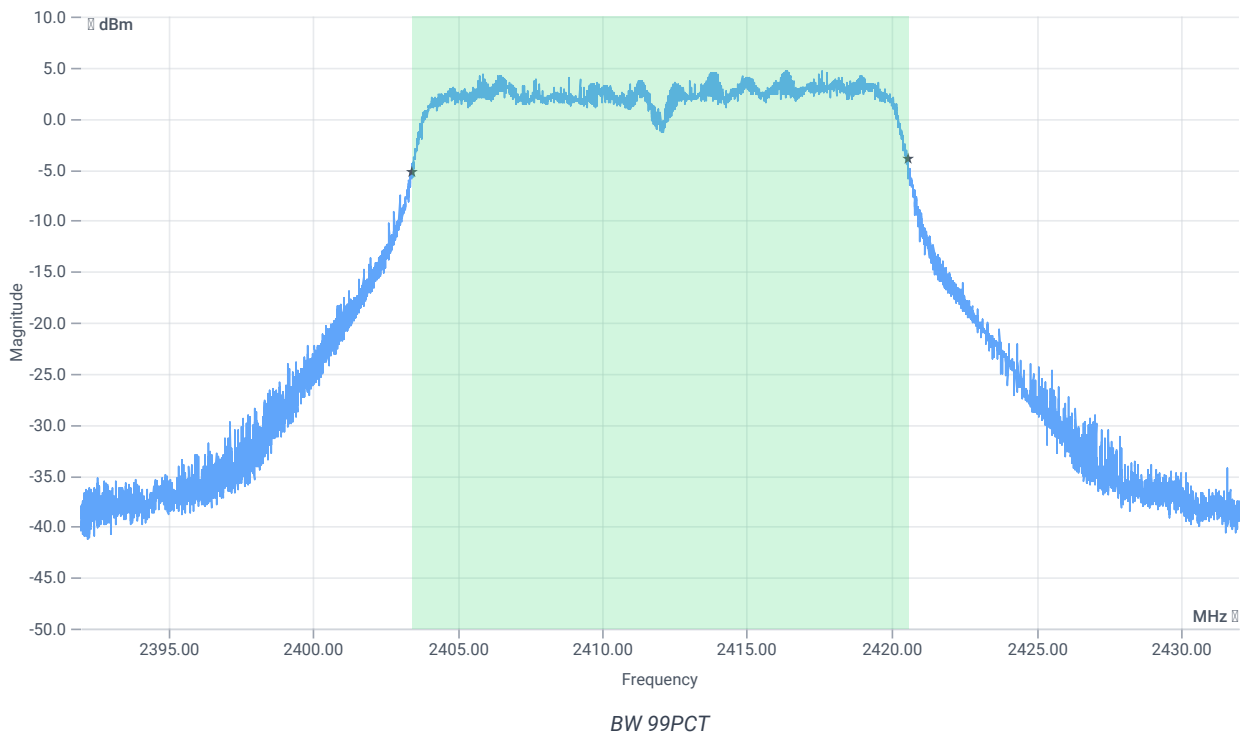
Test at TX 2412 MHz

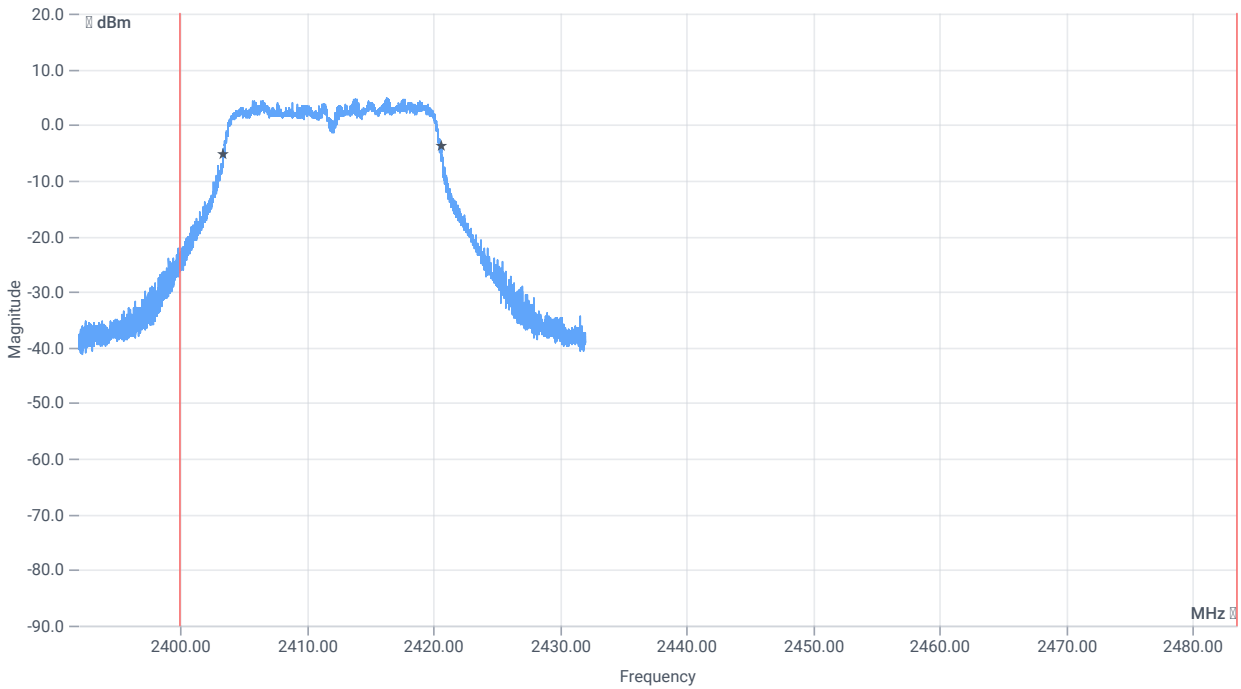
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 7.26 | dBm | INFO |
| Ref. frequency | -- | -- | 2419.290 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.26 8.82 20 |
| Start [MHz] Stop [MHz] | 2392.000 2432.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

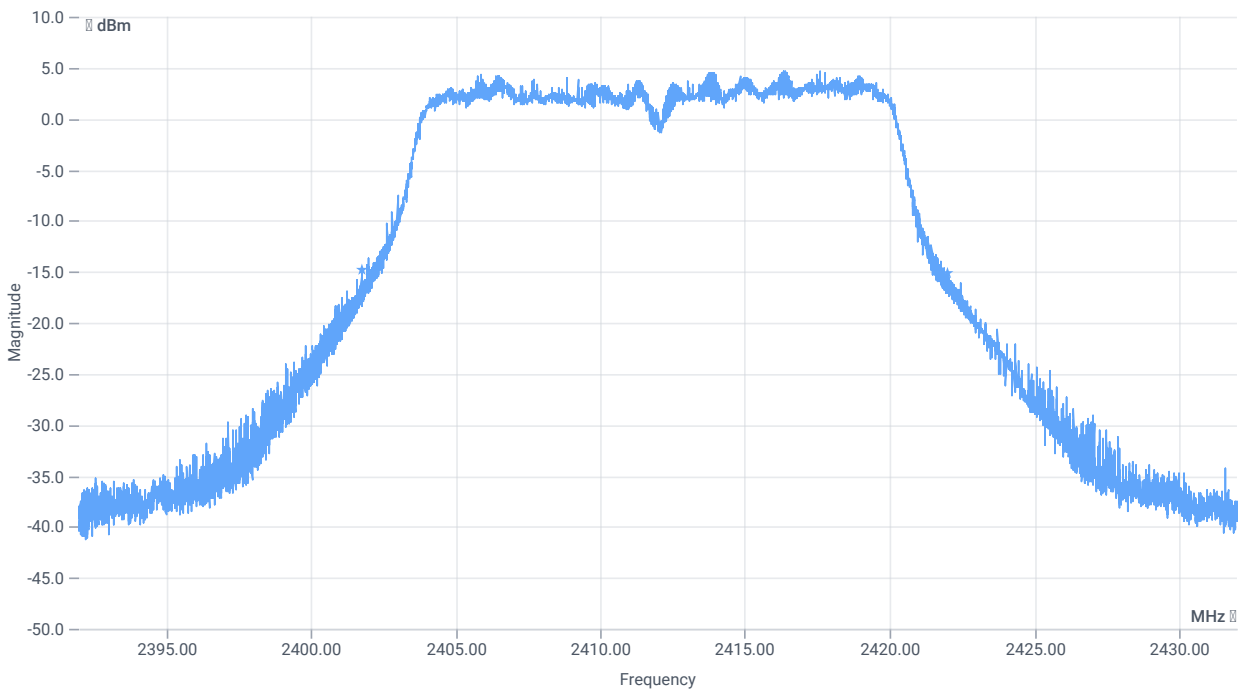




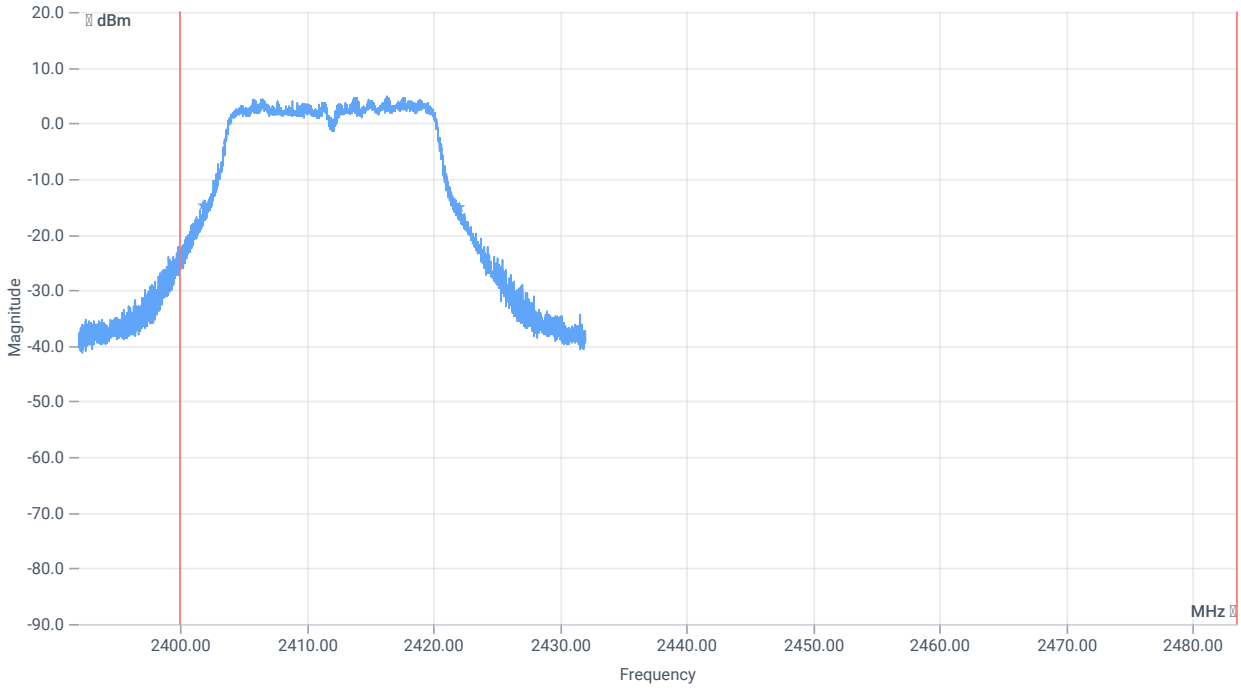
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 17166.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2403.4209 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2420.5871 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 20220 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2401.7880 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2422.0080 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|---|
| TC start | 26.01.2024 12:51:41 |
| Ambit temp [°C] humidity [rel%] | 27.5 35 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

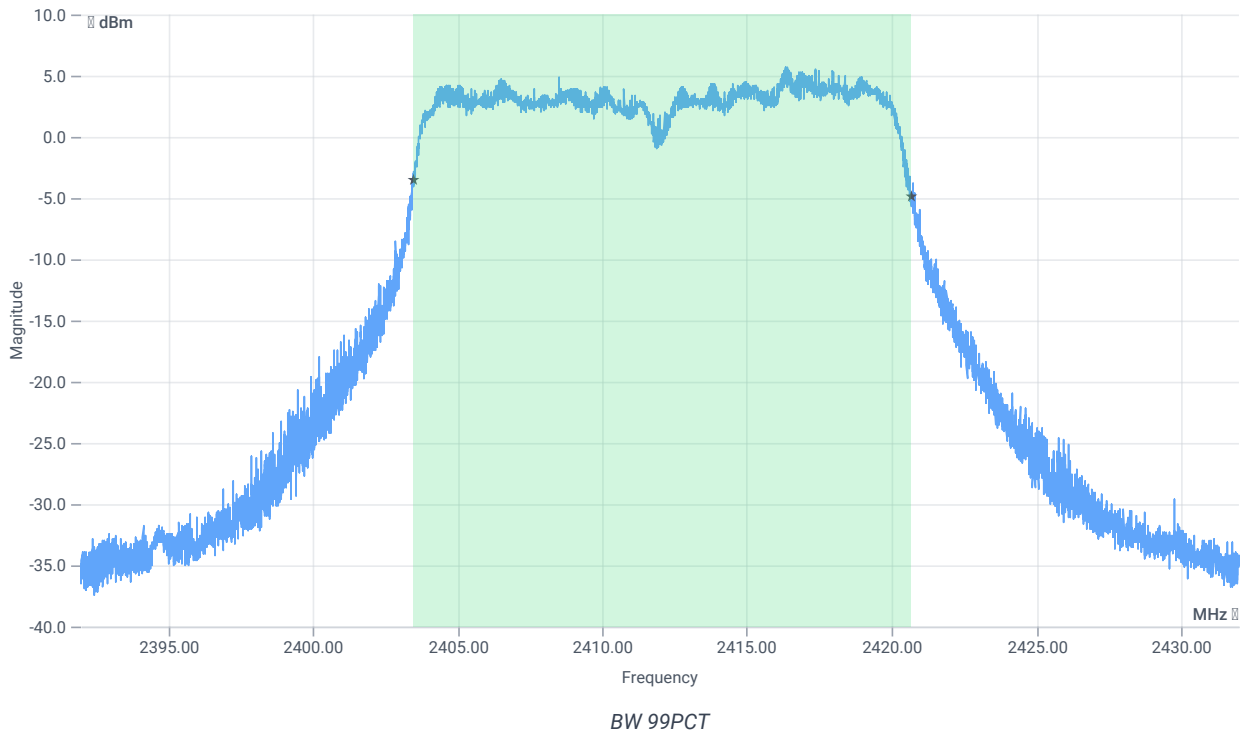
Test at TX 2412 MHz

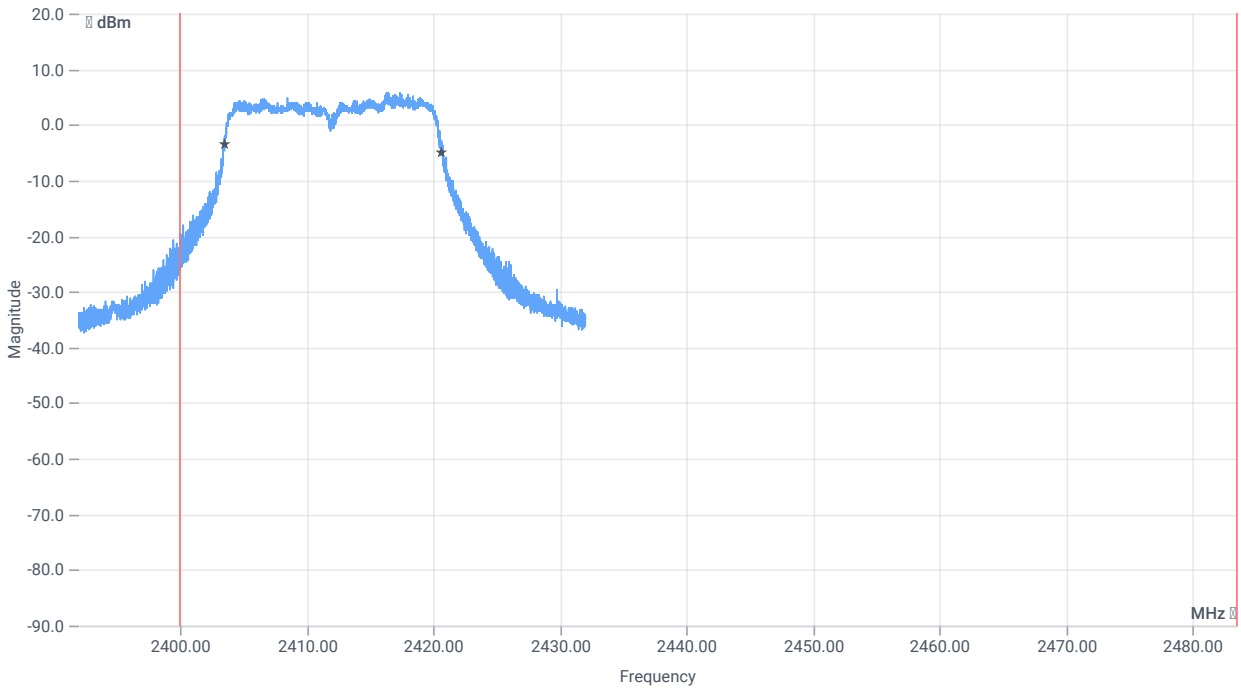
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 7.86 | dBm | INFO |
| Ref. frequency | -- | -- | 2418.090 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.86 8.77 20 |
| Start [MHz] Stop [MHz] | 2392.000 2432.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

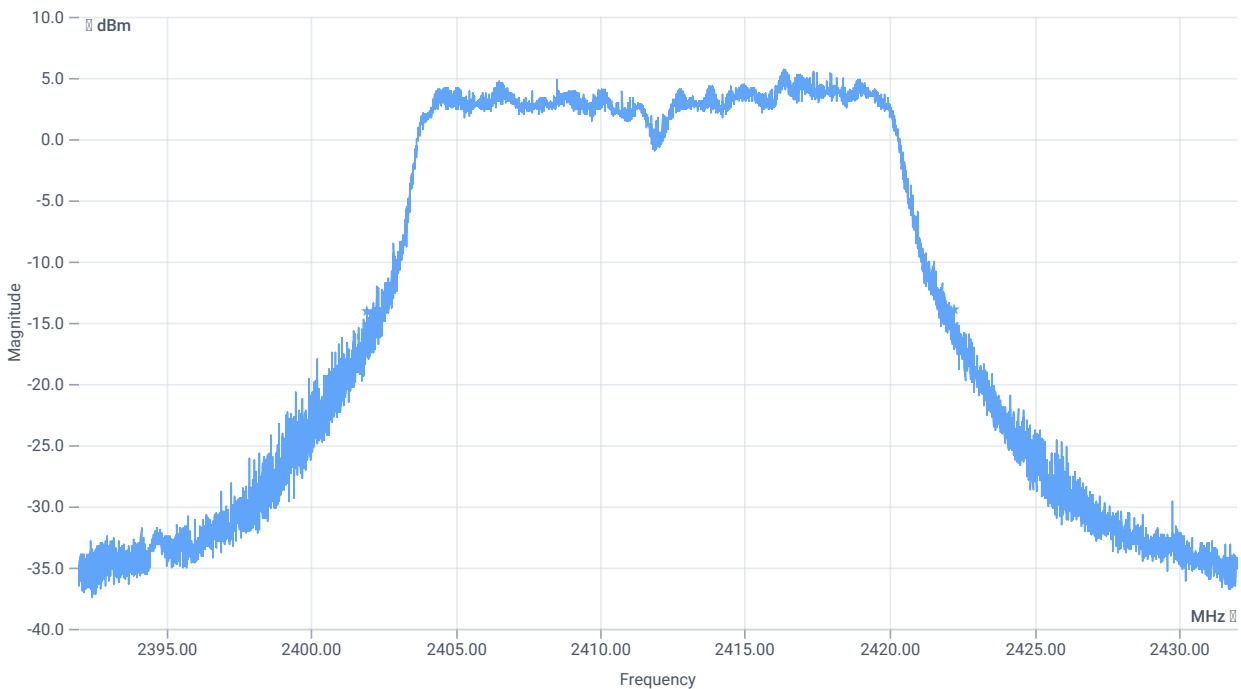




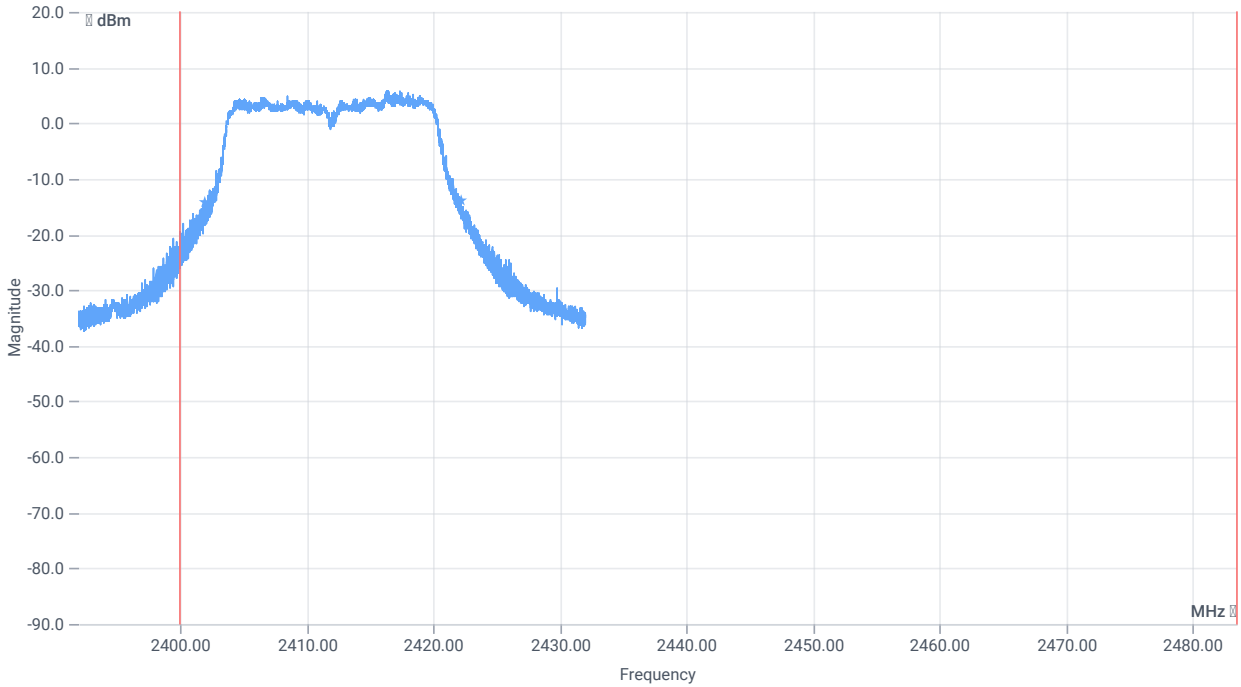
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 17198.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2403.4929 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2420.6911 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 20284 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2401.9640 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2422.2480 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|--|
| TC start | 26.01.2024 12:12:33 |
| Ambit temp [°C] humidity [rel%] | 27.8 34 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| EUT port | EUT2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/ |
| Switch bits | 00100010:00010001:00000000:00000001 |

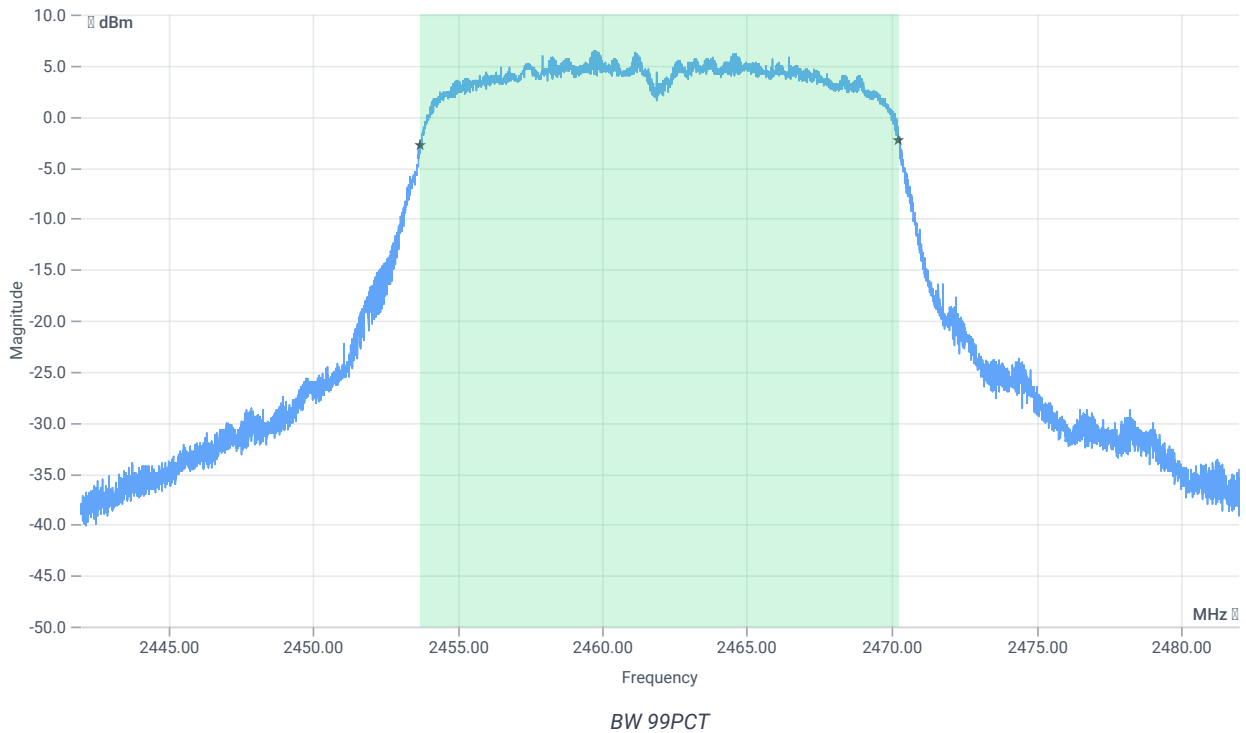
Test at TX 2462 MHz

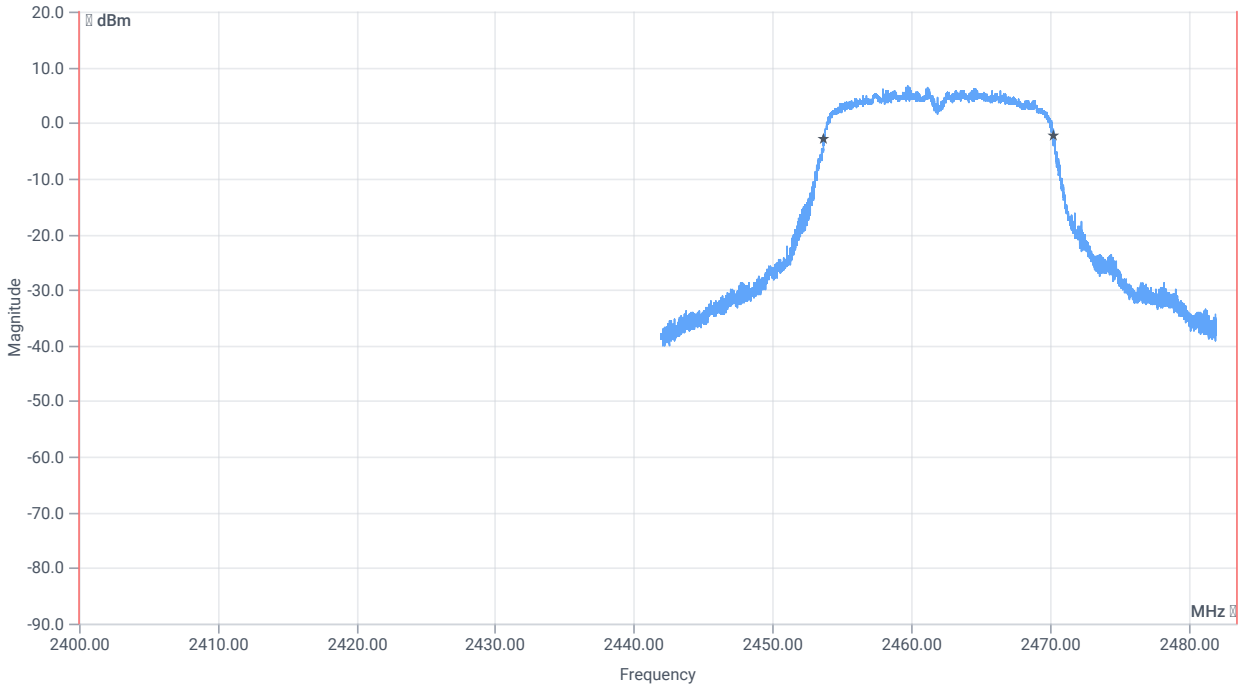
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 9.10 | dBm | INFO |
| Ref. frequency | -- | -- | 2460.000 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 14.10 8.87 25 |
| Start [MHz] Stop [MHz] | 2442.000 2482.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

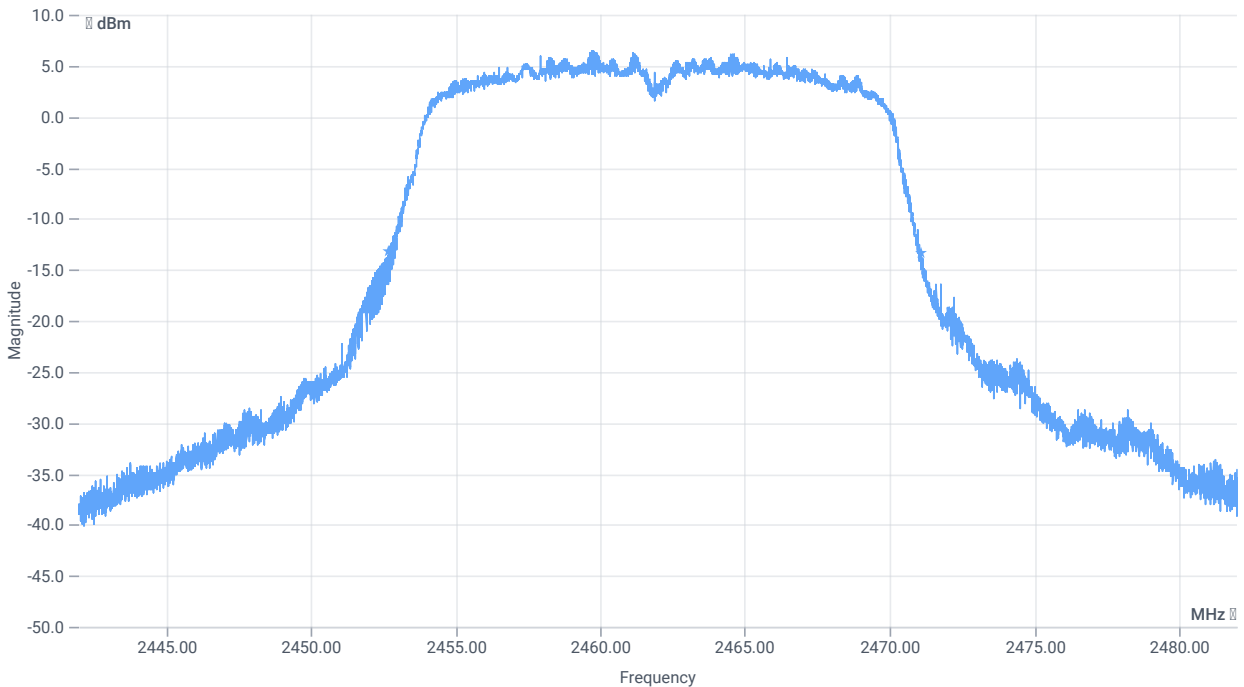




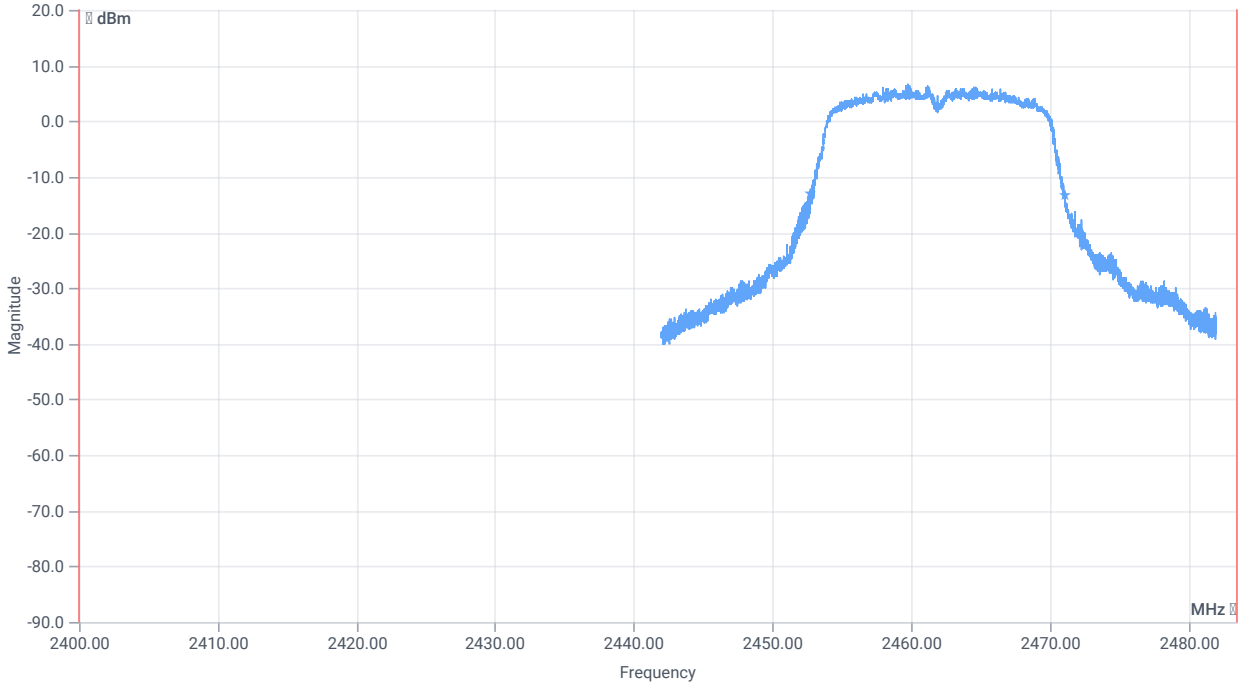
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 16494.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2453.7368 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2470.2312 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 18352 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2452.7120 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2471.0640 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|--|
| TC start | 26.01.2024 11:56:46 |
| Ambit temp [°C] humidity [rel%] | 27.6 35 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

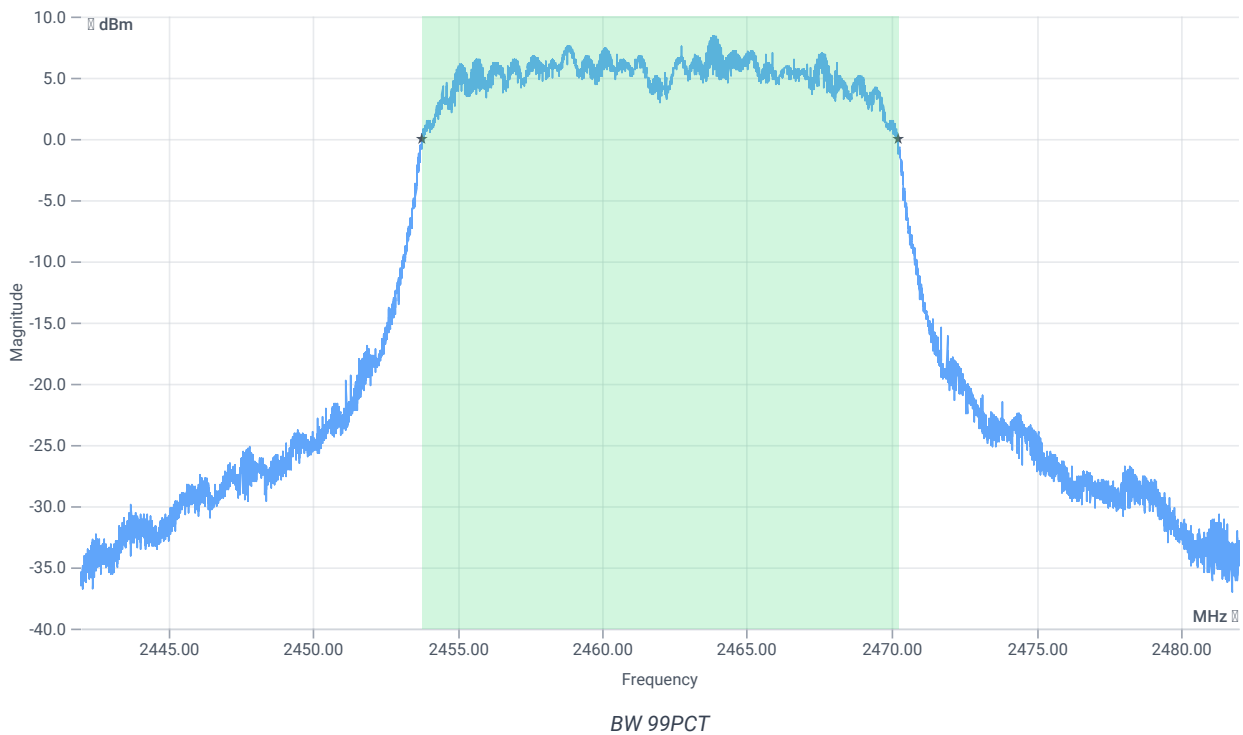
Test at TX 2462 MHz

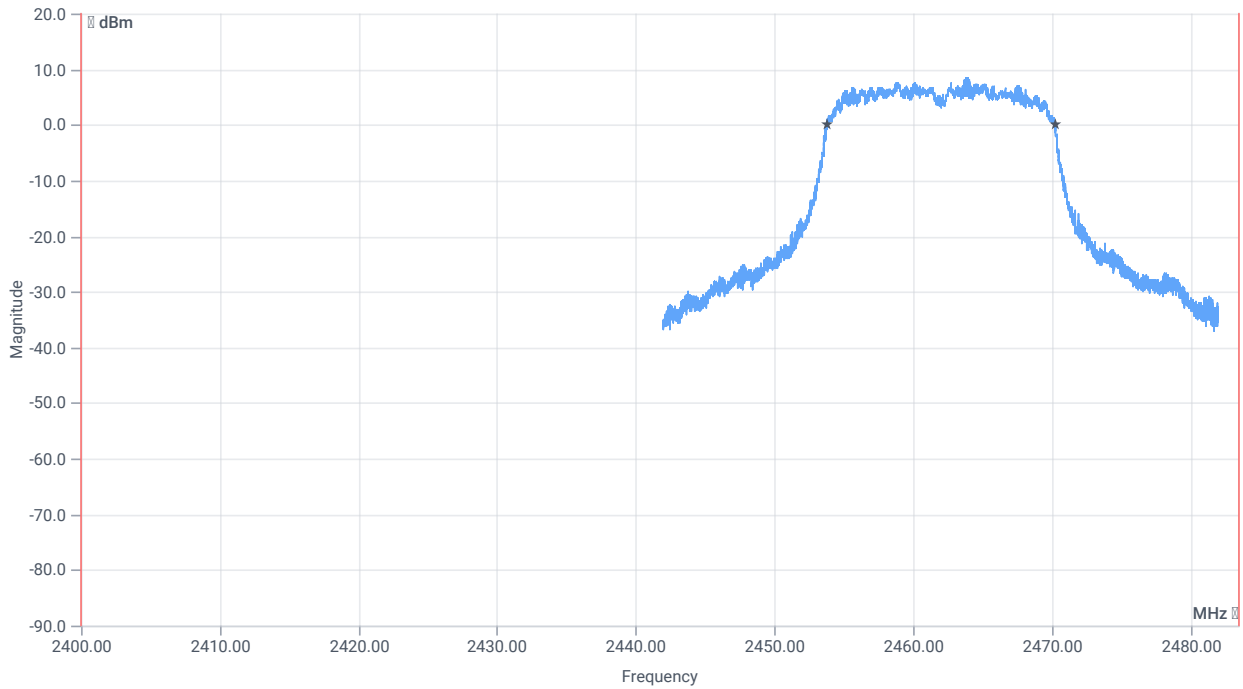
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 10.67 | dBm | INFO |
| Ref. frequency | -- | -- | 2464.600 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 15.67 8.84 25 |
| Start [MHz] Stop [MHz] | 2442.000 2482.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

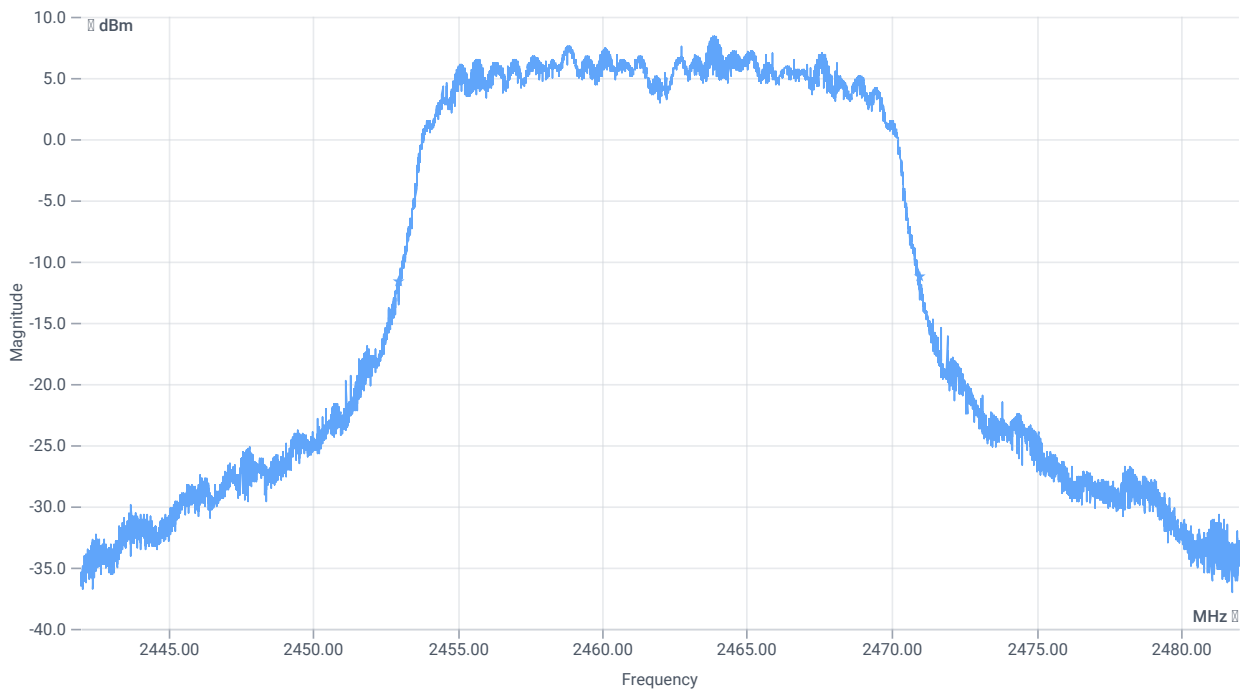




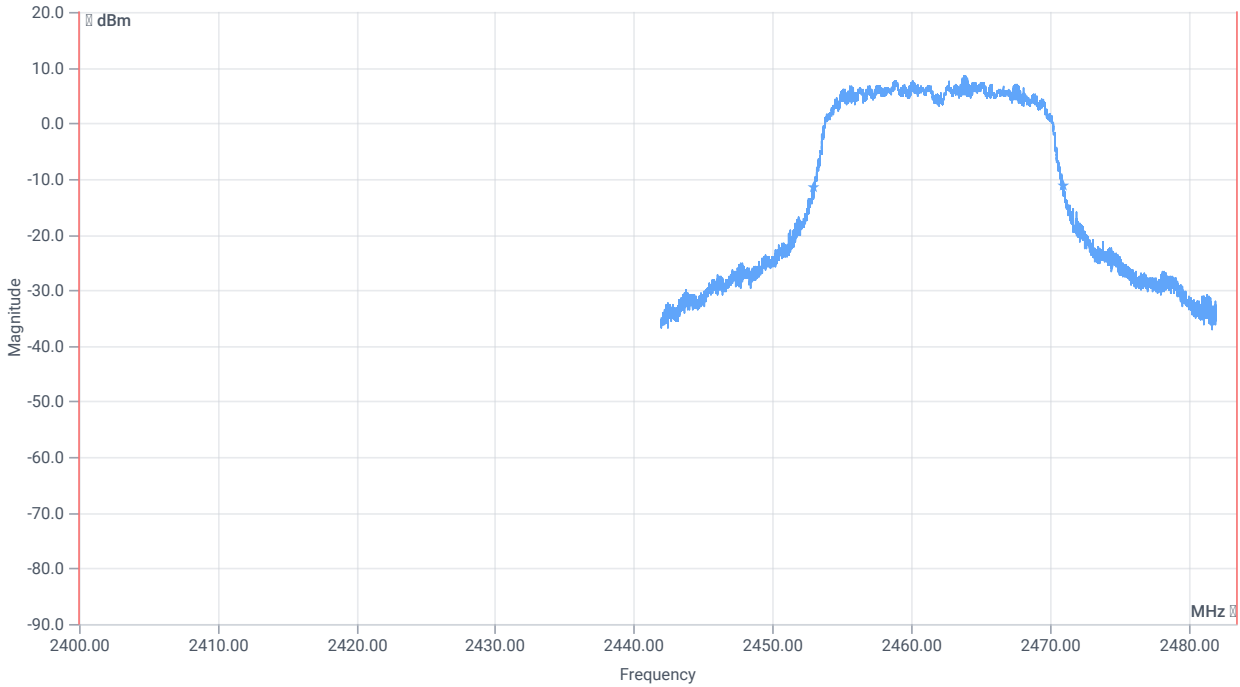
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 16446.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2453.7648 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2470.2112 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 18004 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2452.9520 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2470.9560 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|--|
| TC start | 26.01.2024 11:40:06 |
| Ambit temp [°C] humidity [rel%] | 27.3 35 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| EUT port | EUT2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/ |
| Switch bits | 00100010:00010001:00000000:00000001 |

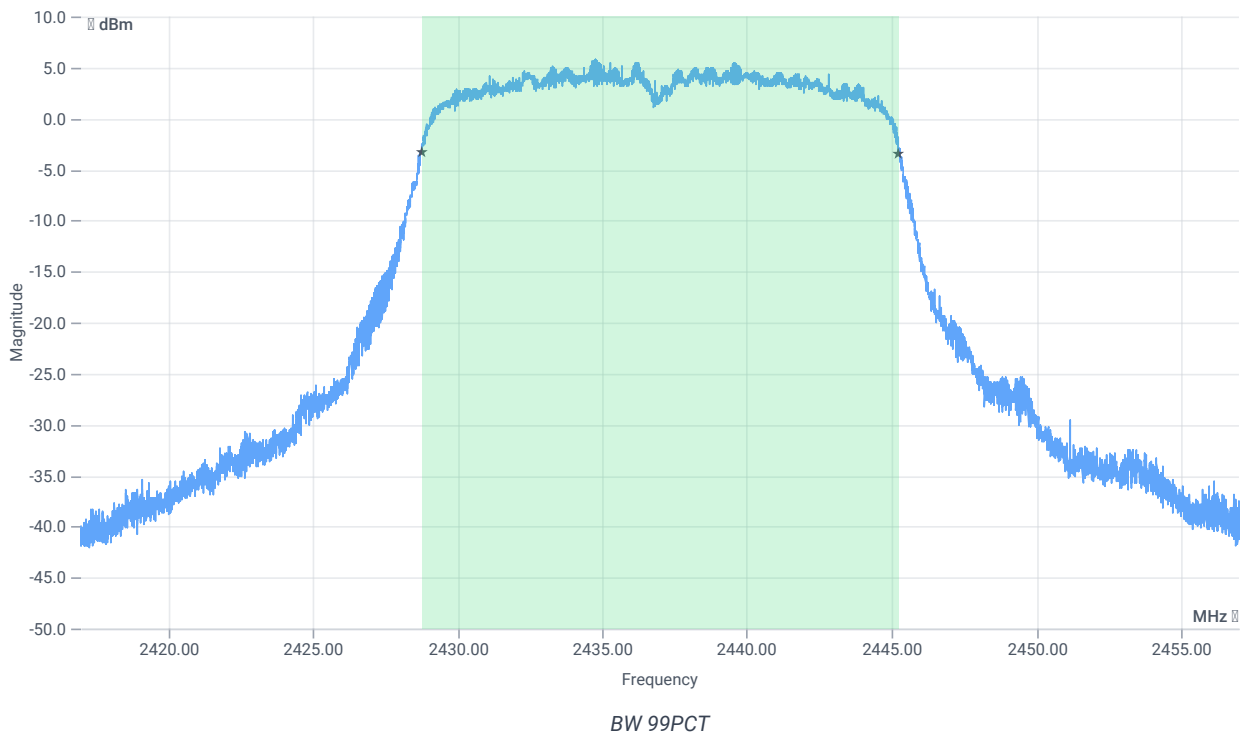
Test at TX 2437 MHz

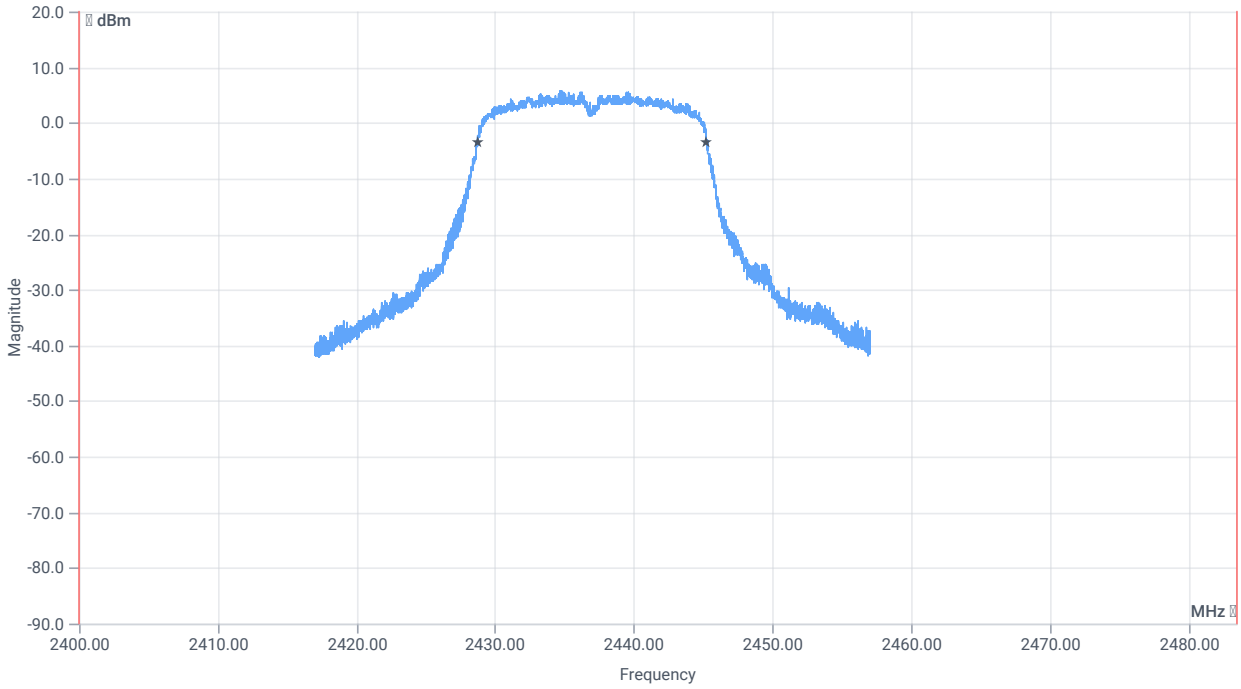
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 8.60 | dBm | INFO |
| Ref. frequency | -- | -- | 2440.000 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 13.60 8.83 20 |
| Start [MHz] Stop [MHz] | 2417.000 2457.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

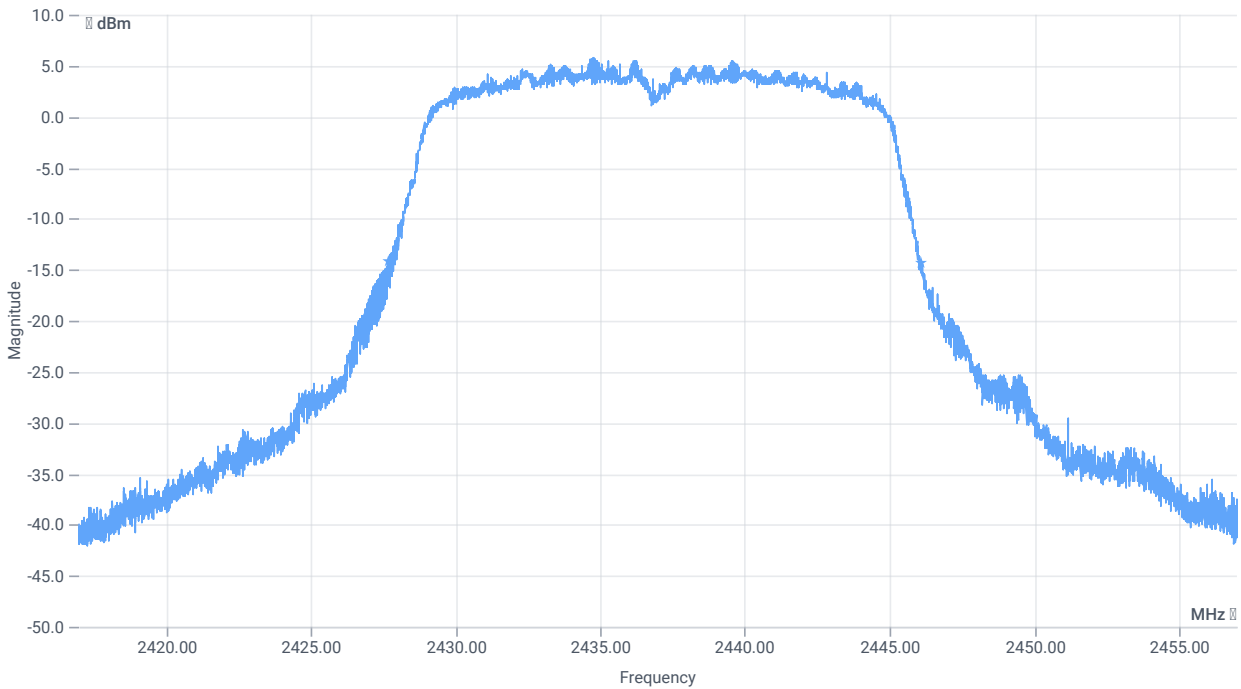




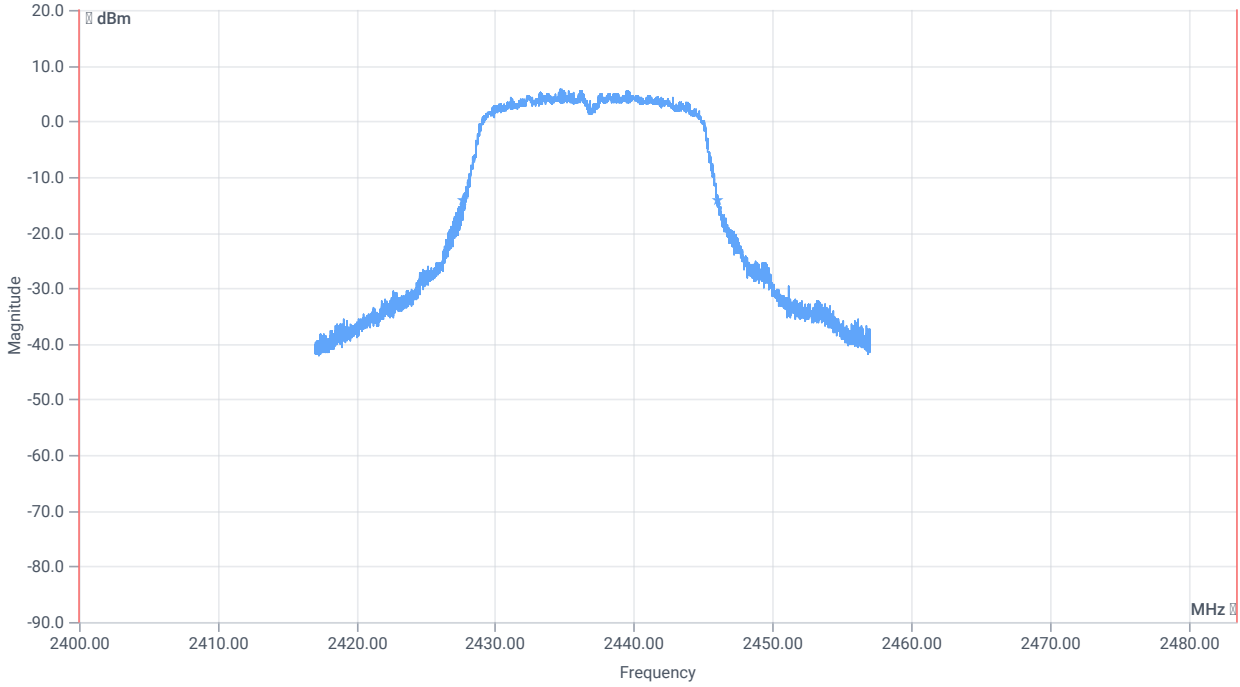
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 16482.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2428.7488 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2445.2312 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 18360 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2427.7040 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2446.0640 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|--|
| TC start | 26.01.2024 11:24:23 |
| Ambit temp [°C] humidity [rel%] | 26.8 35 |
| System version | 5.0.1.0 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

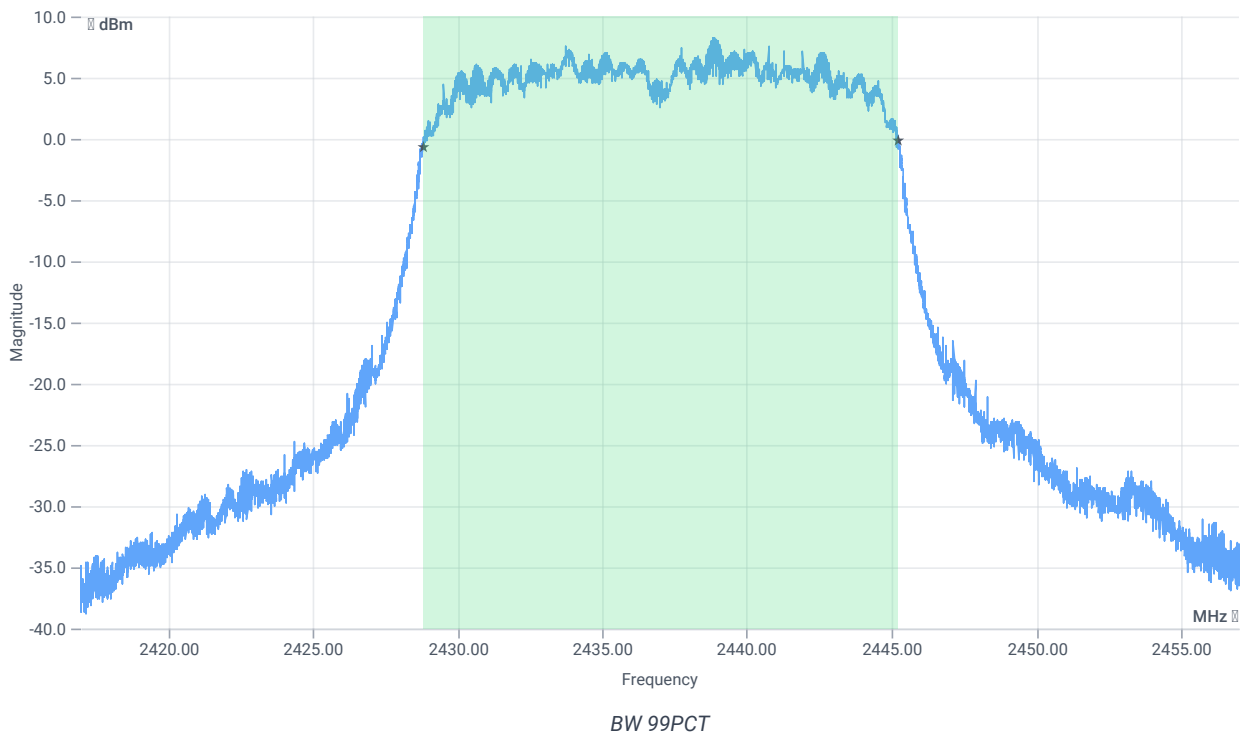
Test at TX 2437 MHz

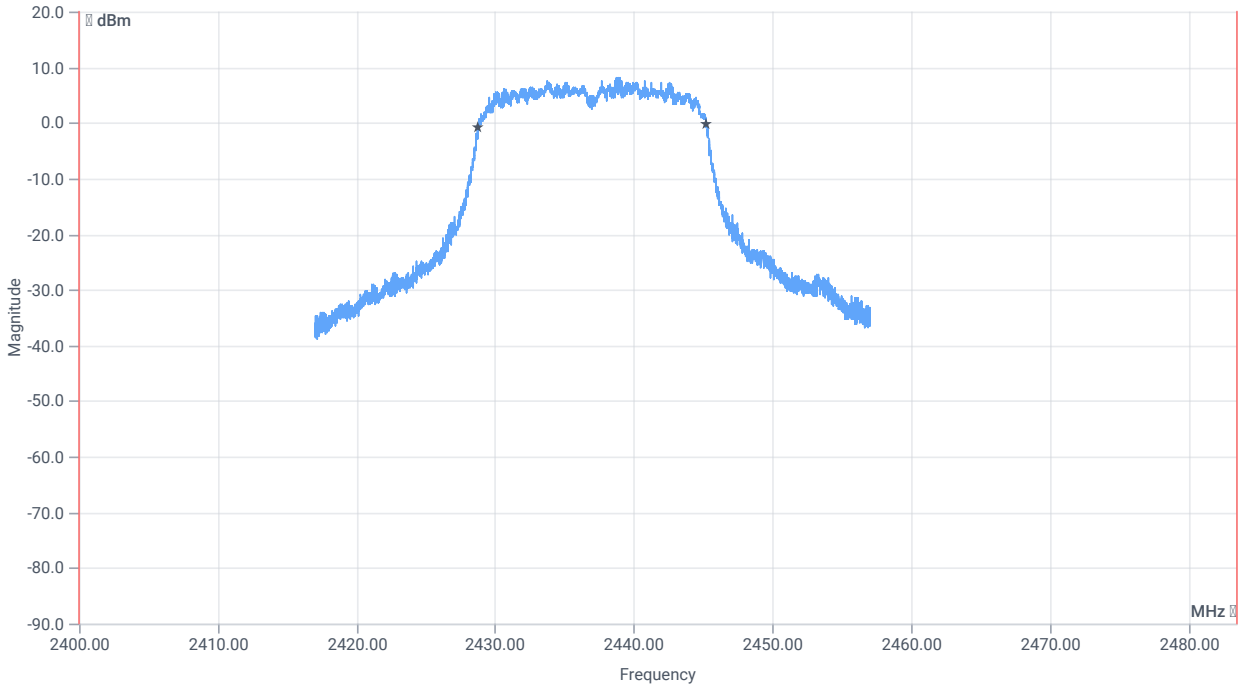
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 10.48 | dBm | INFO |
| Ref. frequency | -- | -- | 2438.900 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 15.48 8.8 25 |
| Start [MHz] Stop [MHz] | 2417.000 2457.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

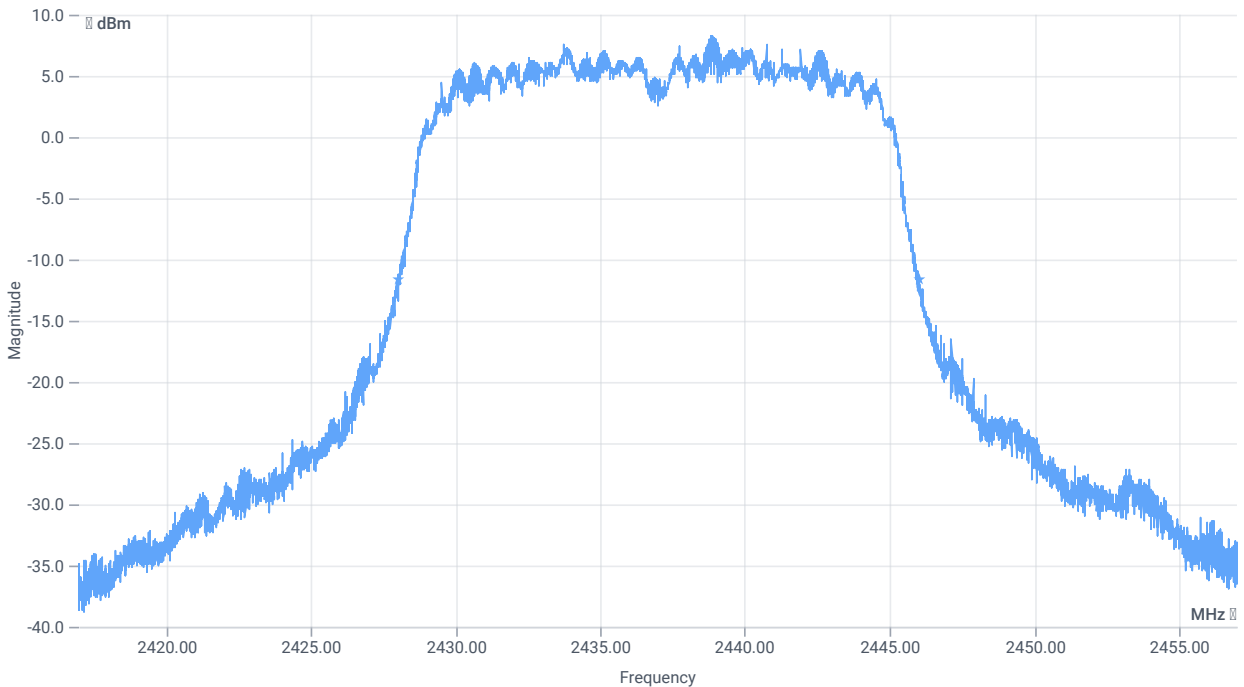




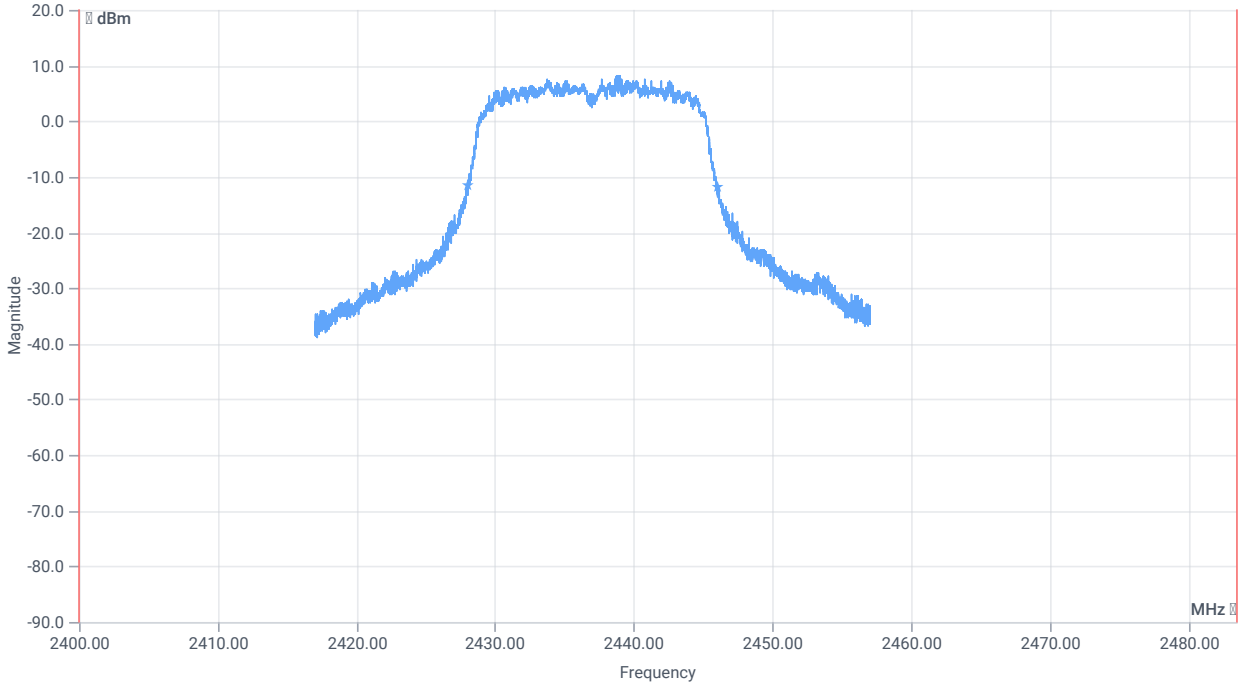
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 16438.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2428.8008 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2445.2392 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 17996 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2428.0120 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2446.0080 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|--|
| TC start | 24.01.2024 18:38:09 |
| Ambit temp [°C] humidity [rel%] | 27.6 30 |
| System version | 5.0.0.1 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| EUT port | EUT2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/ |
| Switch bits | 00100010:00010001:00000000:00000001 |

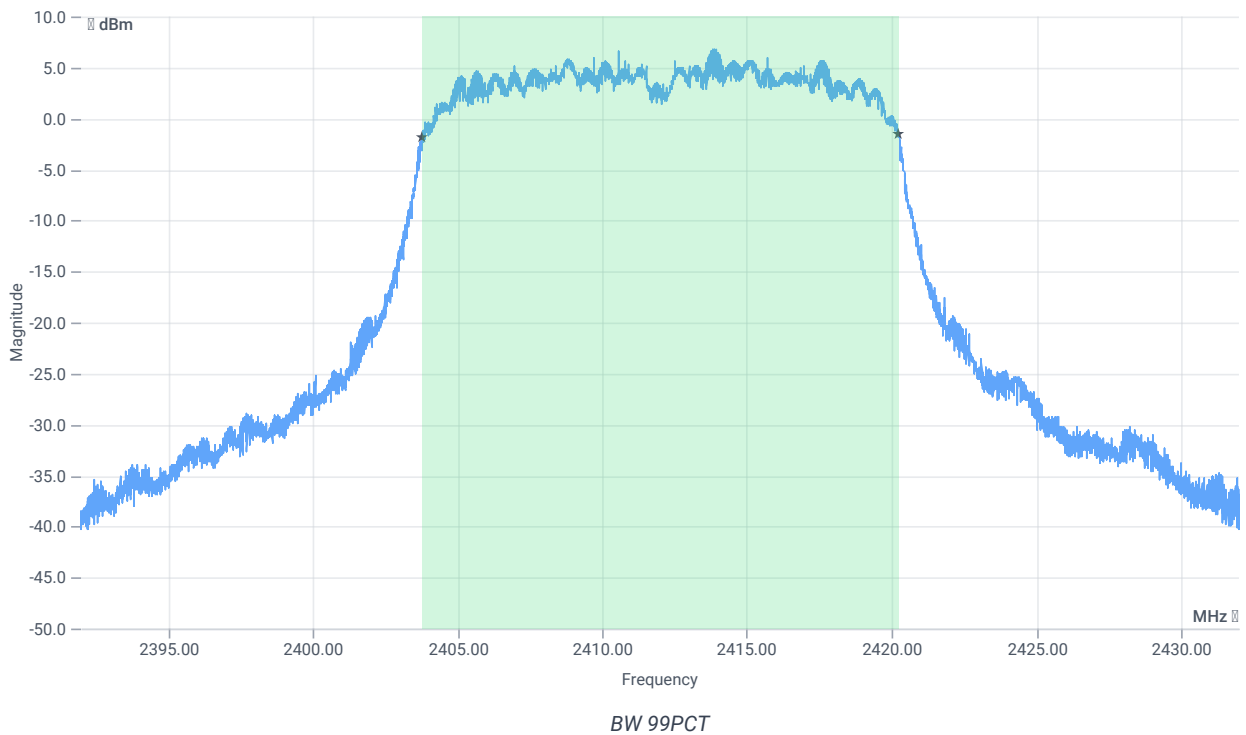
Test at TX 2412 MHz

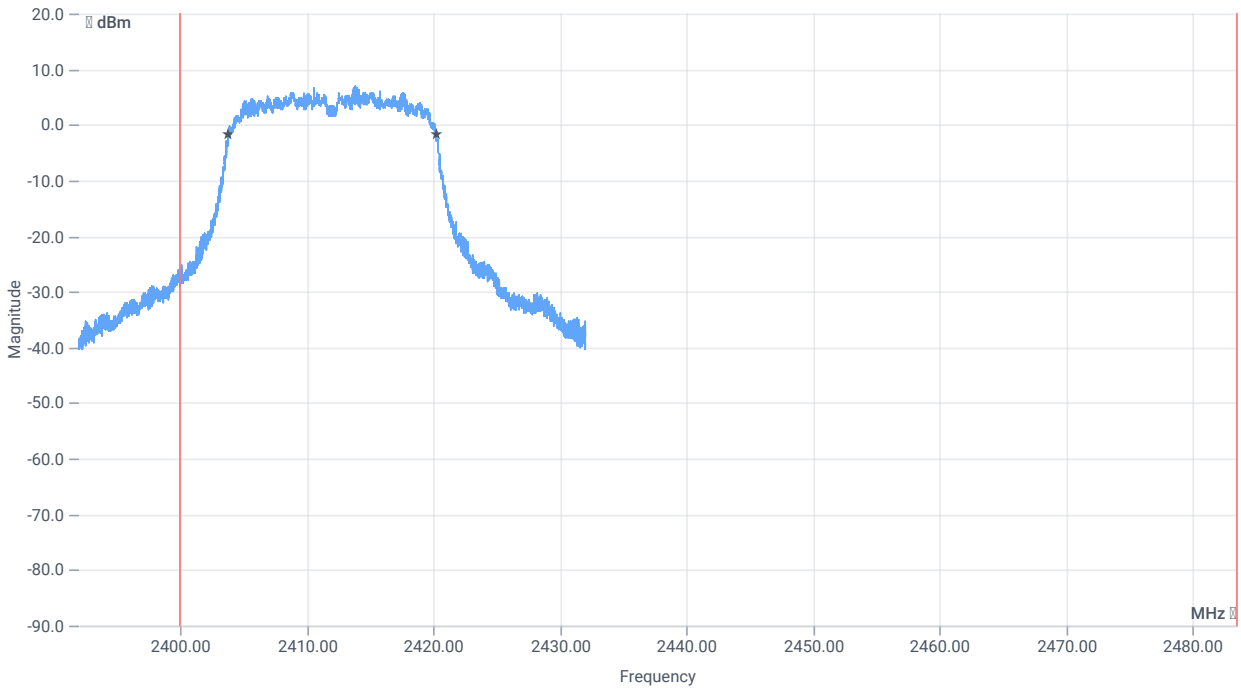
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 7.97 | dBm | INFO |
| Ref. frequency | -- | -- | 2414.300 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.97 8.82 20 |
| Start [MHz] Stop [MHz] | 2392.000 2432.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

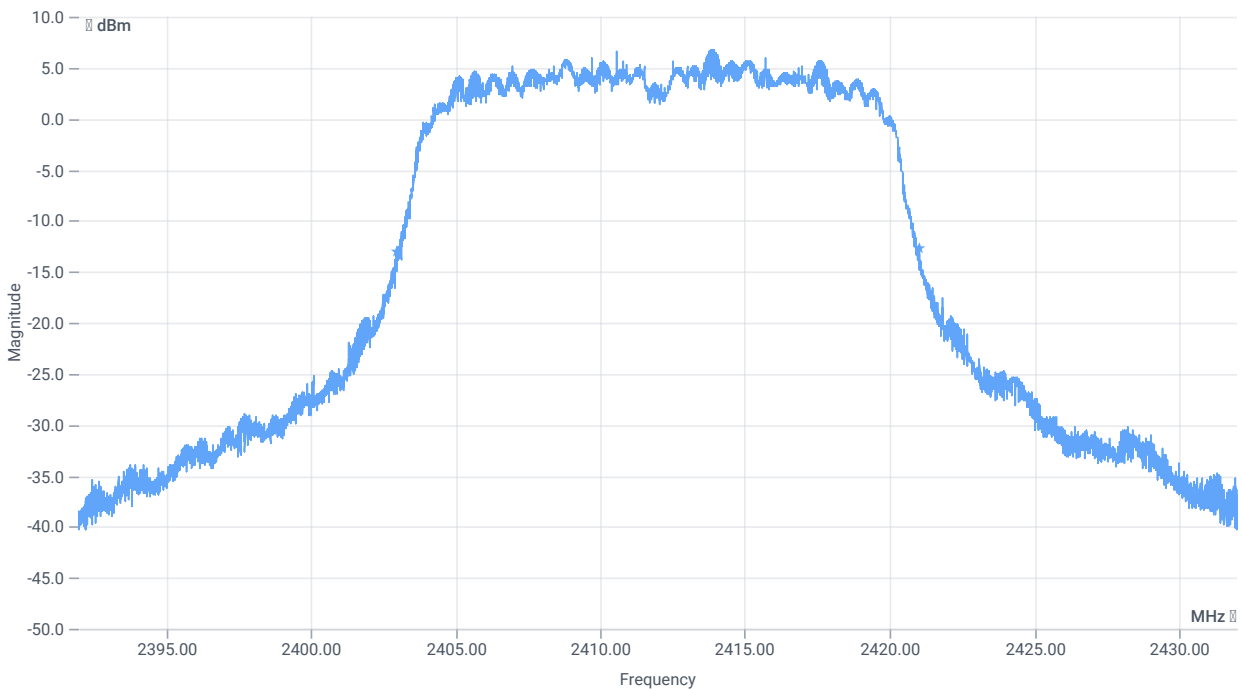




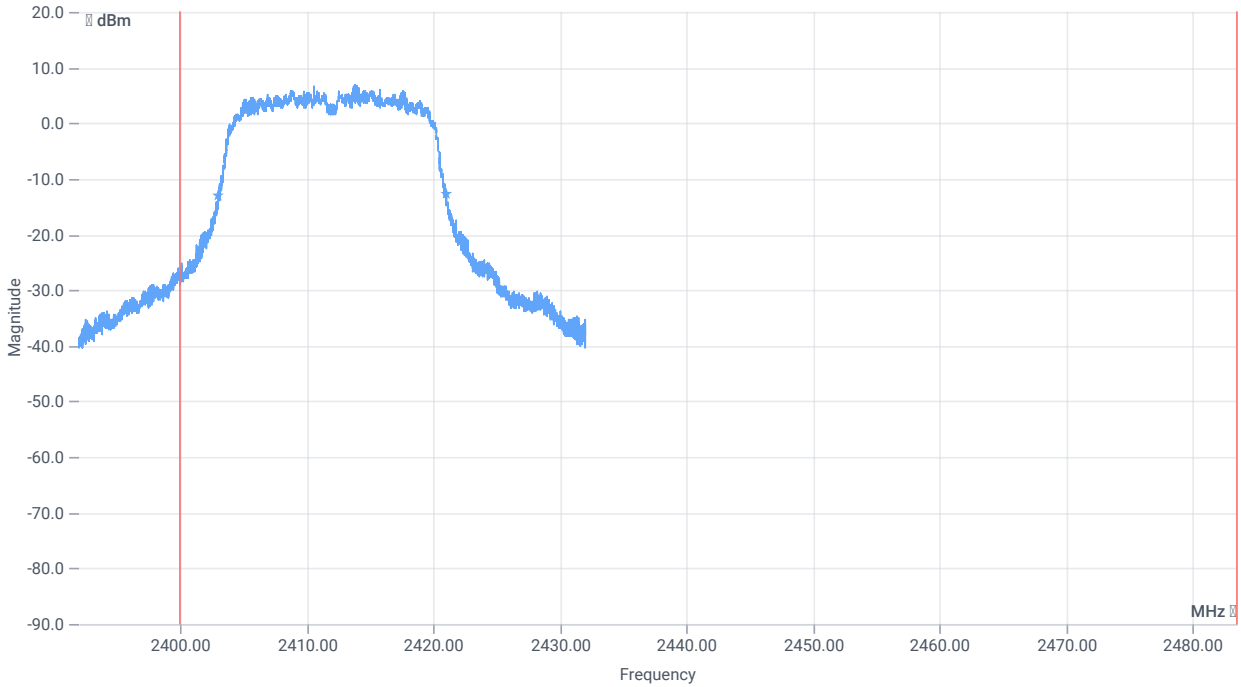
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 16438.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2403.7928 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2420.2312 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 18060 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2402.9600 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2421.0200 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|--|
| TC start | 24.01.2024 18:22:28 |
| Ambit temp [°C] humidity [rel%] | 27.6 30 |
| System version | 5.0.0.1 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

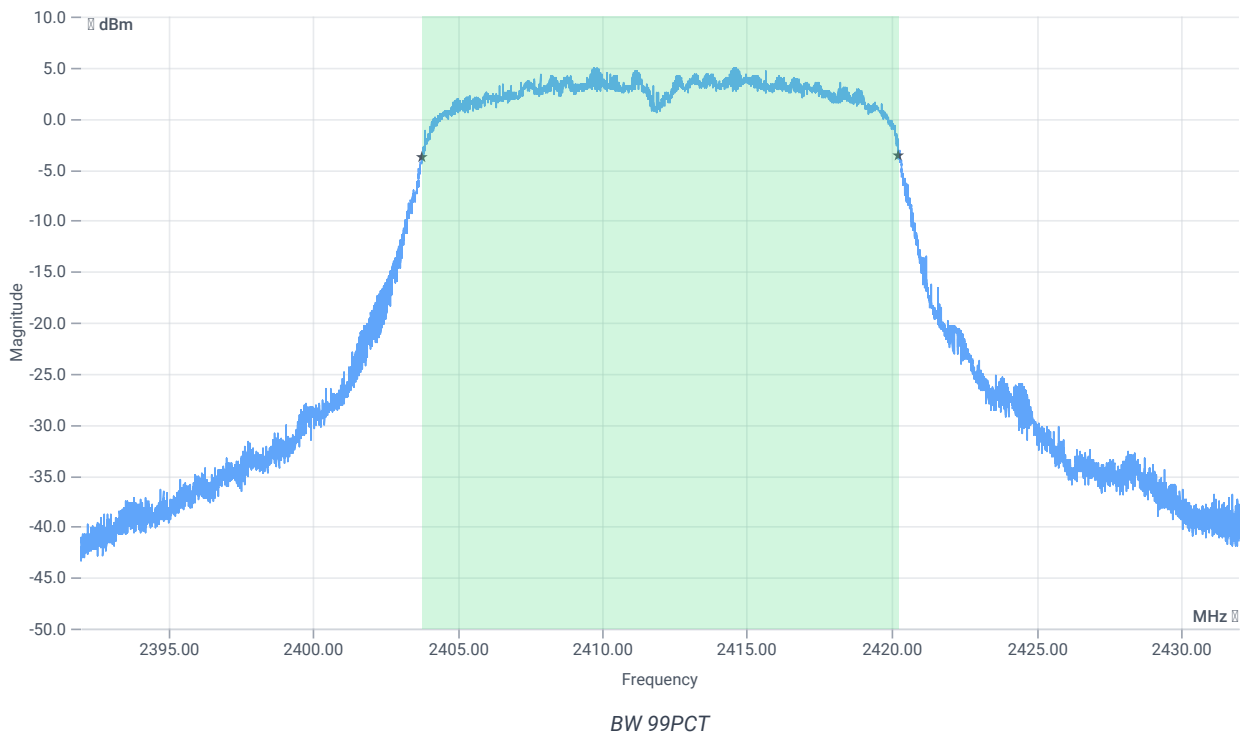
Test at TX 2412 MHz

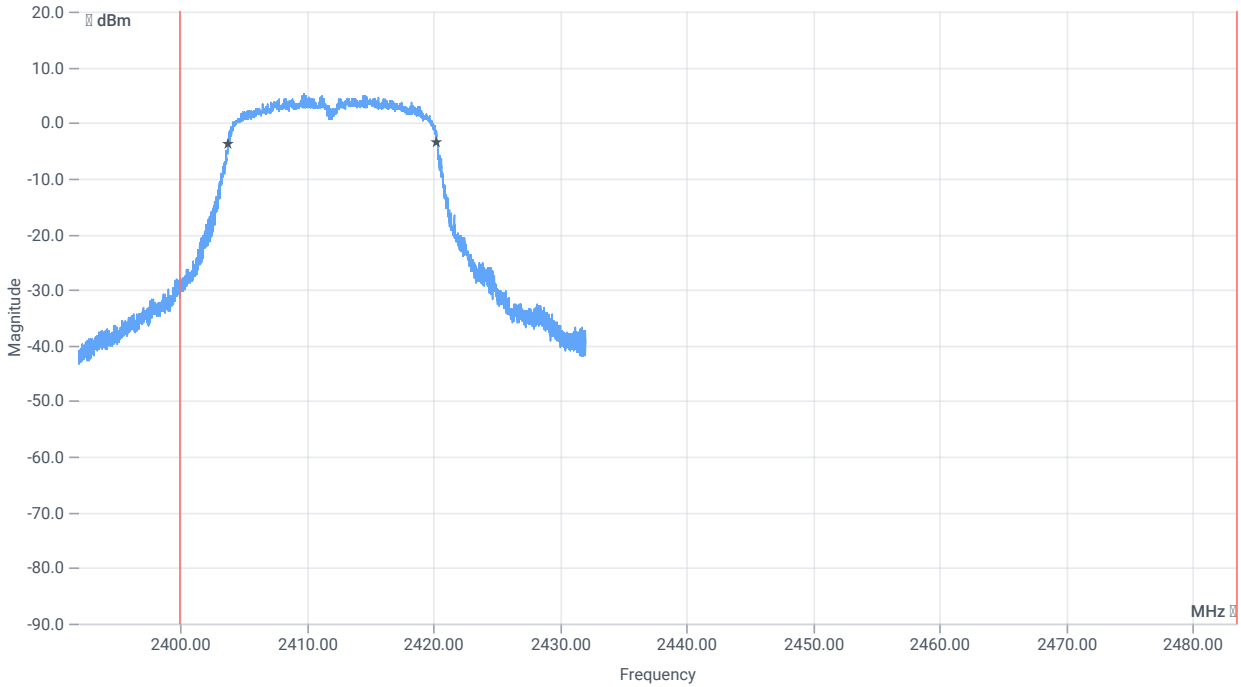
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 7.81 | dBm | INFO |
| Ref. frequency | -- | -- | 2409.300 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.81 8.77 20 |
| Start [MHz] Stop [MHz] | 2392.000 2432.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

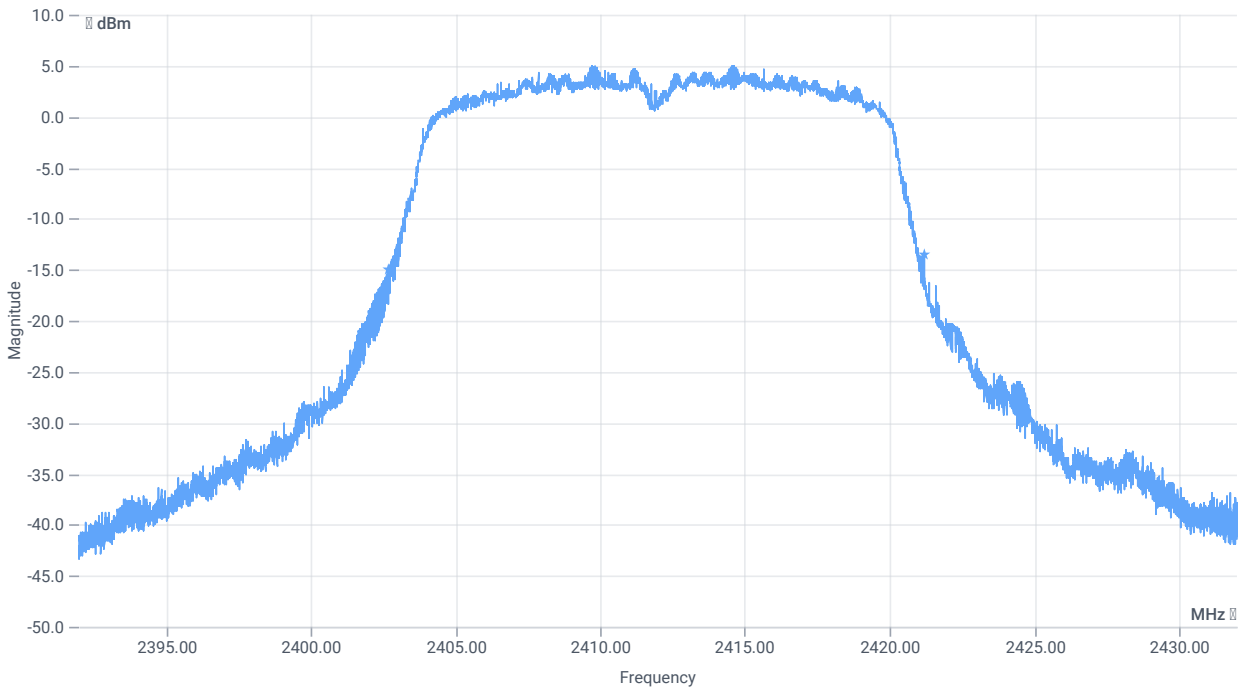




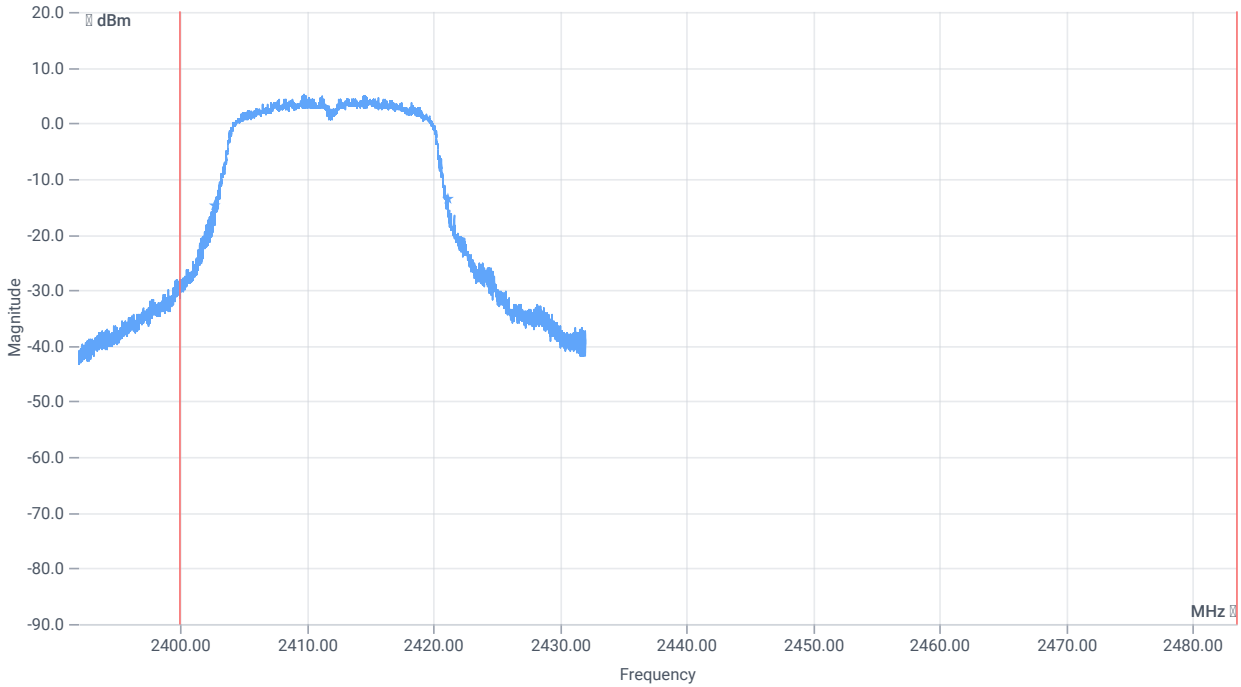
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 16474.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2403.7808 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2420.2552 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 18488 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2402.7040 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2421.1920 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|--|
| TC start | 24.01.2024 18:04:29 |
| Ambit temp [°C] humidity [rel%] | 27.6 30 |
| System version | 5.0.0.1 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| EUT port | EUT2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/ |
| Switch bits | 00100010:00010001:00000000:00000001 |

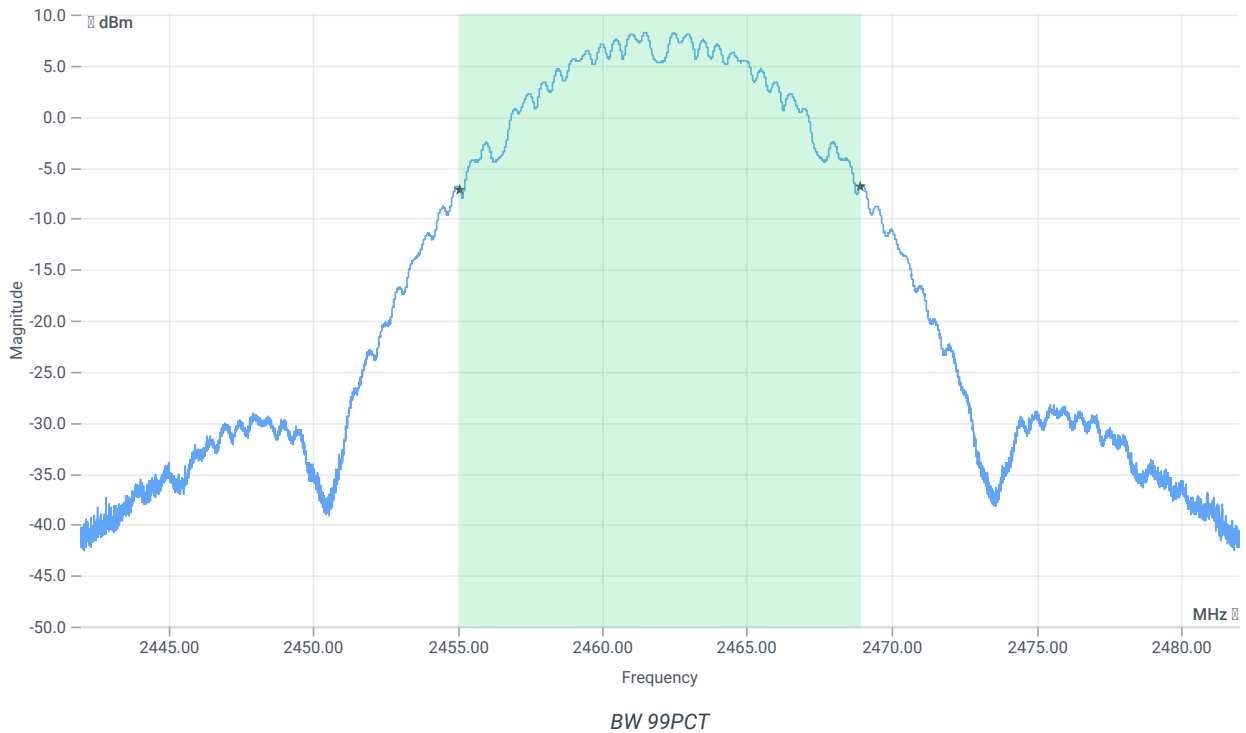
Test at TX 2462 MHz

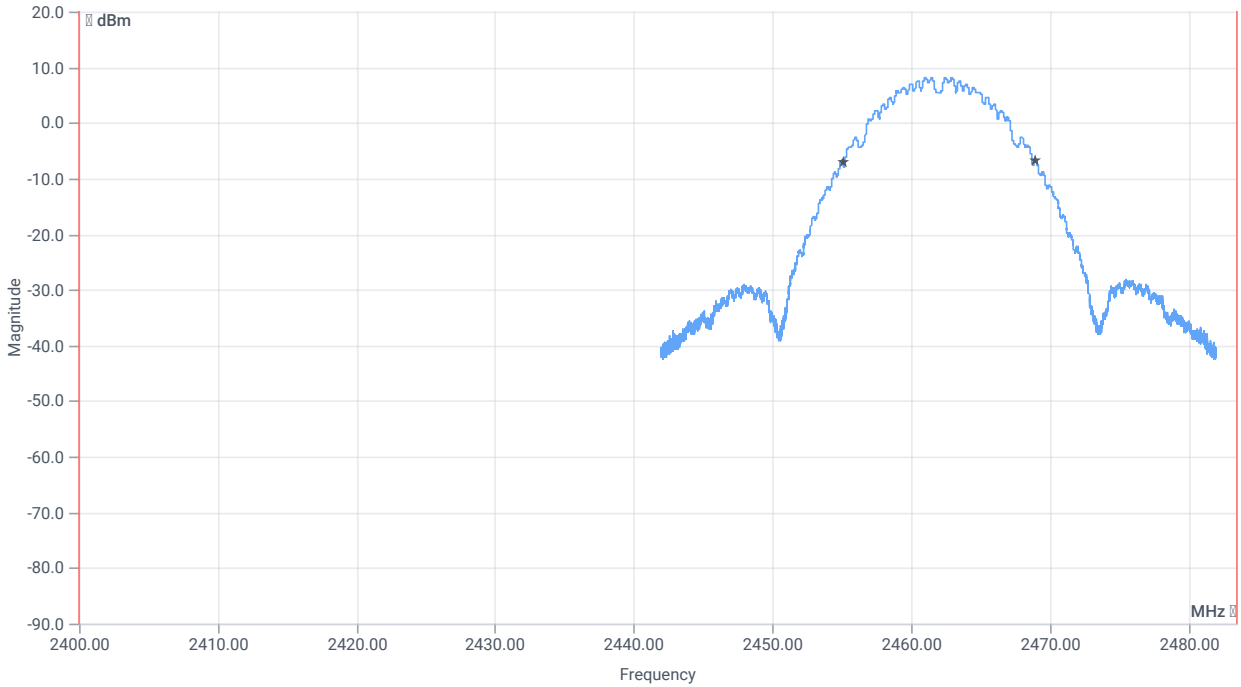
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 11.08 | dBm | INFO |
| Ref. frequency | -- | -- | 2460.800 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 16.08 8.87 25 |
| Start [MHz] Stop [MHz] | 2442.000 2482.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

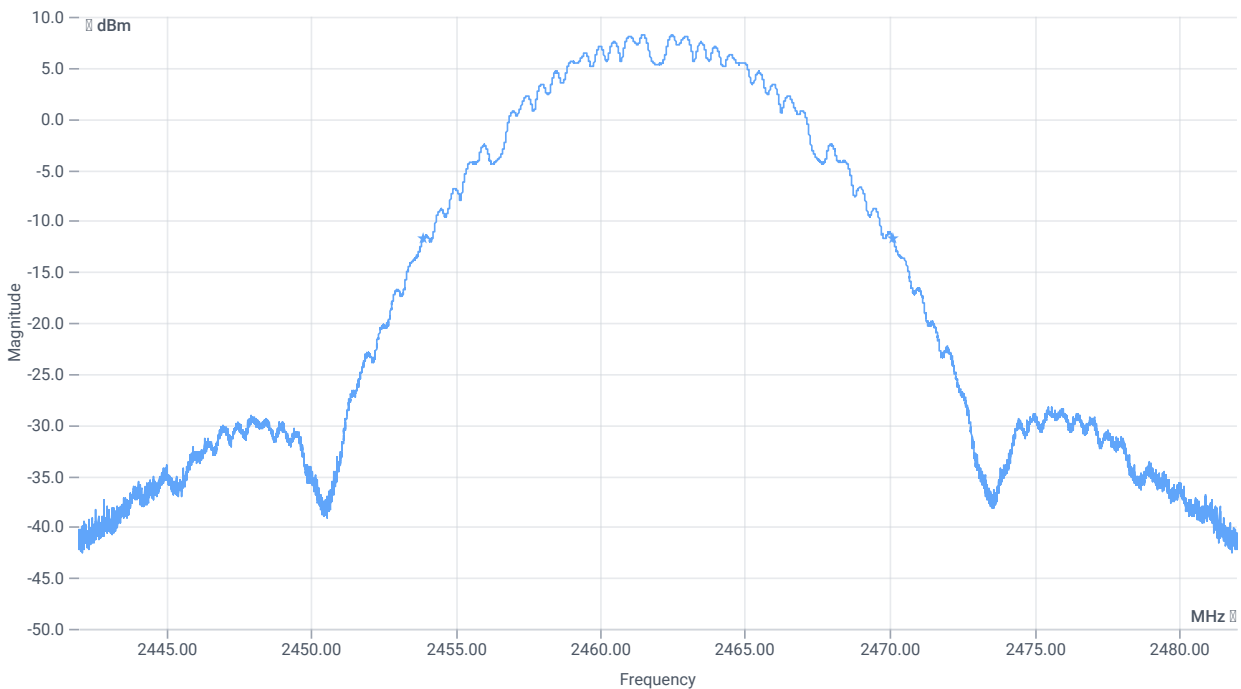




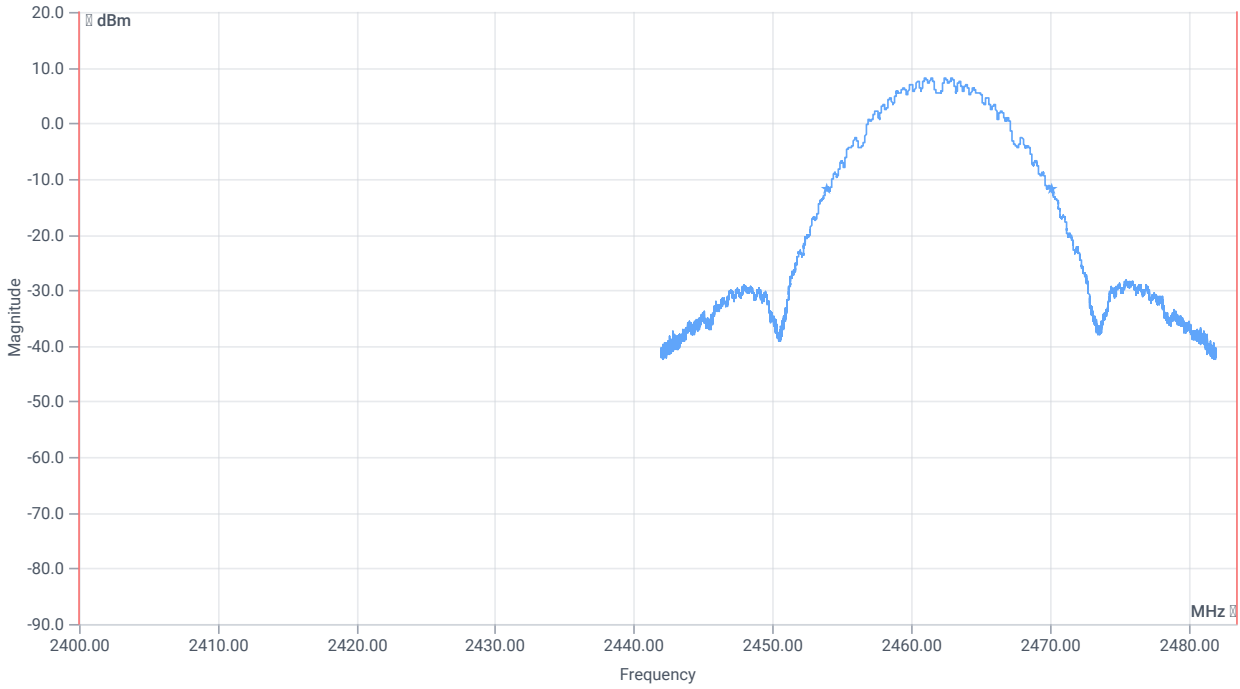
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 13859.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2455.0767 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2468.9353 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 16200 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2453.9040 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2470.1040 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|--|
| TC start | 24.01.2024 17:48:47 |
| Ambit temp [°C] humidity [rel%] | 27.7 30 |
| System version | 5.0.0.1 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

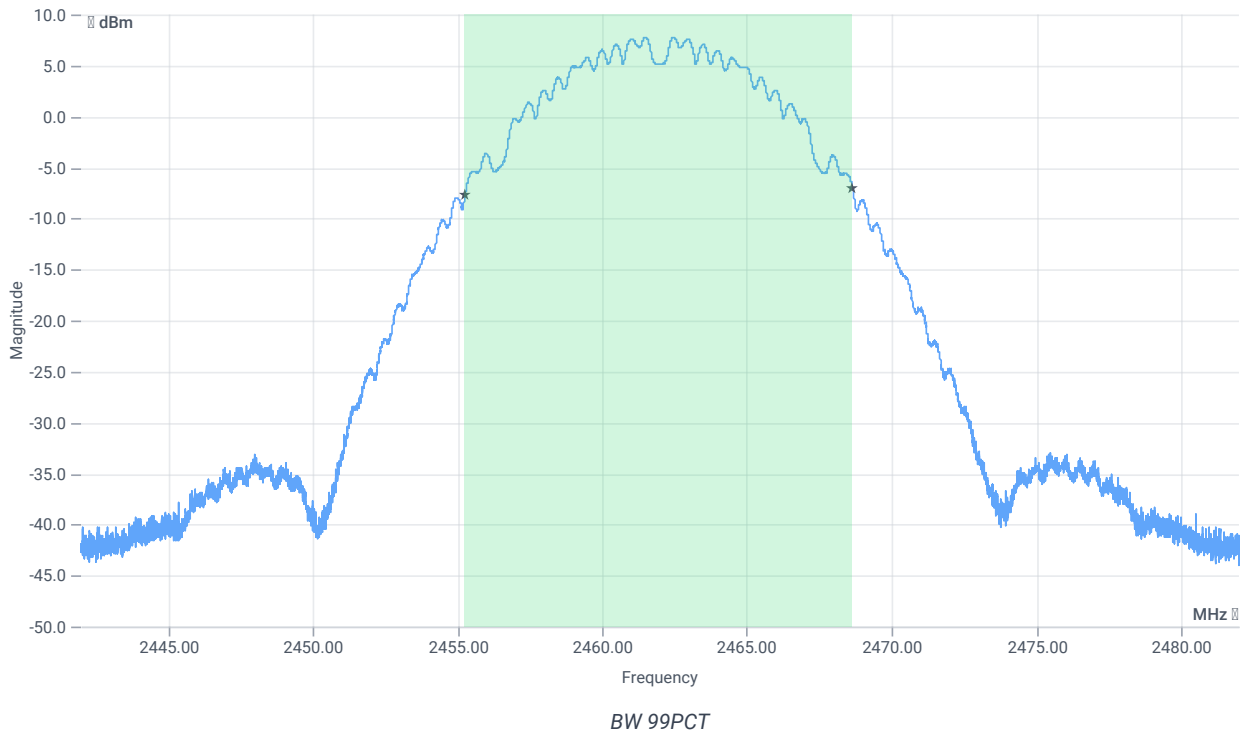
Test at TX 2462 MHz

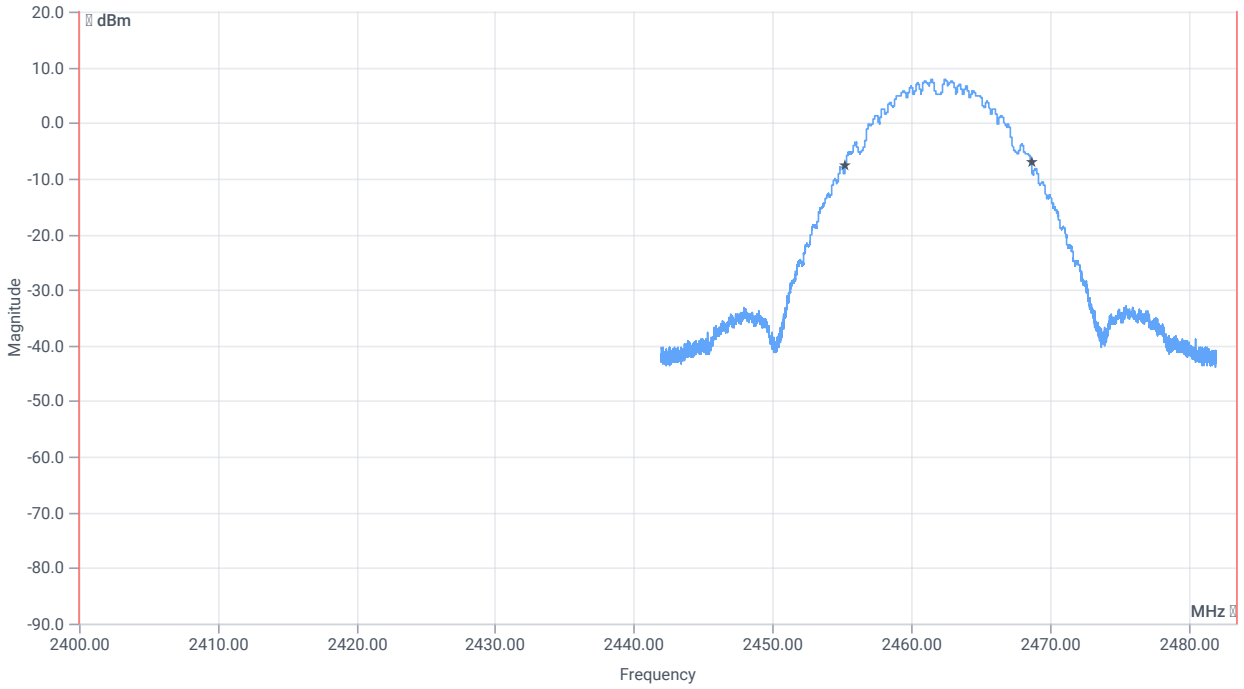
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 10.62 | dBm | INFO |
| Ref. frequency | -- | -- | 2460.800 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 15.62 8.84 25 |
| Start [MHz] Stop [MHz] | 2442.000 2482.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

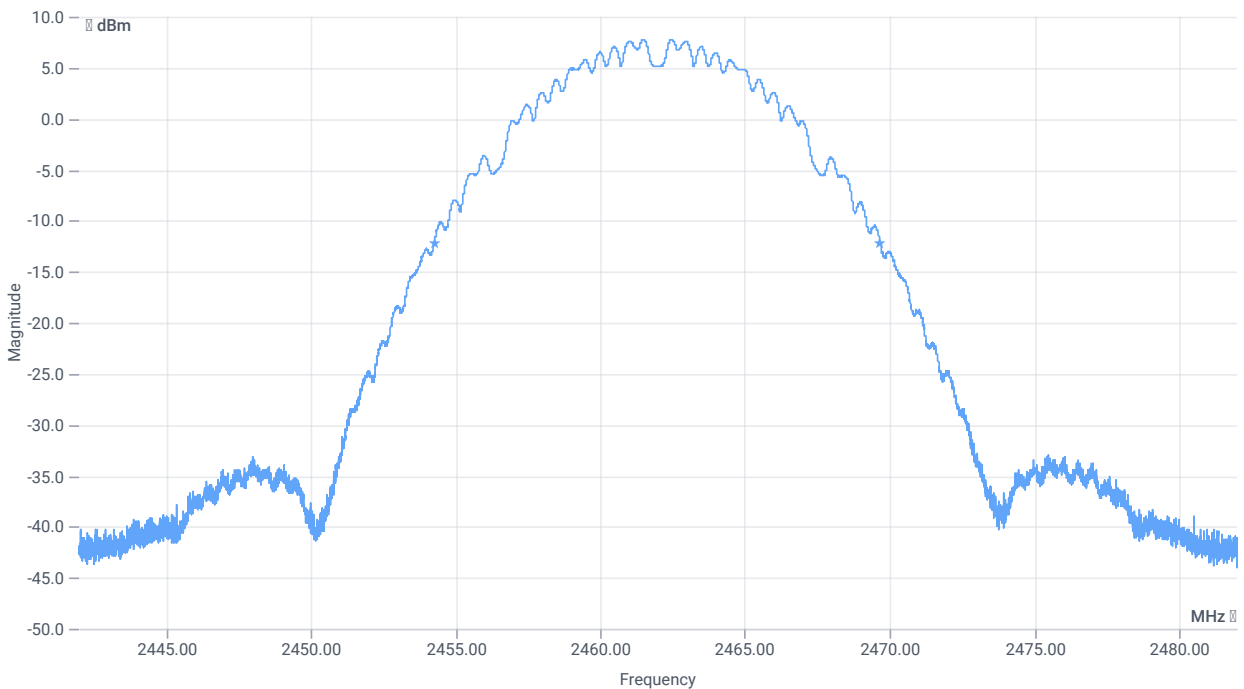




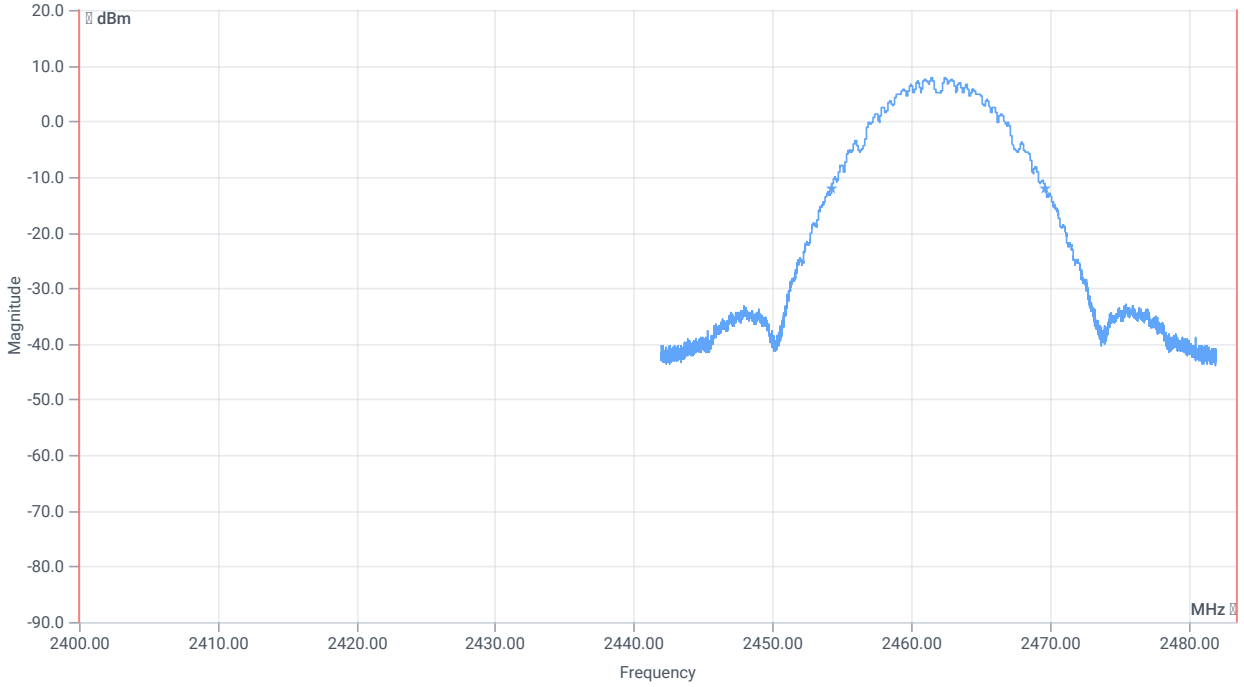
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 13387.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2455.2687 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2468.6553 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 15404 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2454.2760 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2469.6800 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|--|
| TC start | 24.01.2024 17:32:03 |
| Ambit temp [°C] humidity [rel%] | 27.8 29 |
| System version | 5.0.0.1 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| EUT port | EUT2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/ |
| Switch bits | 00100010:00010001:00000000:00000001 |

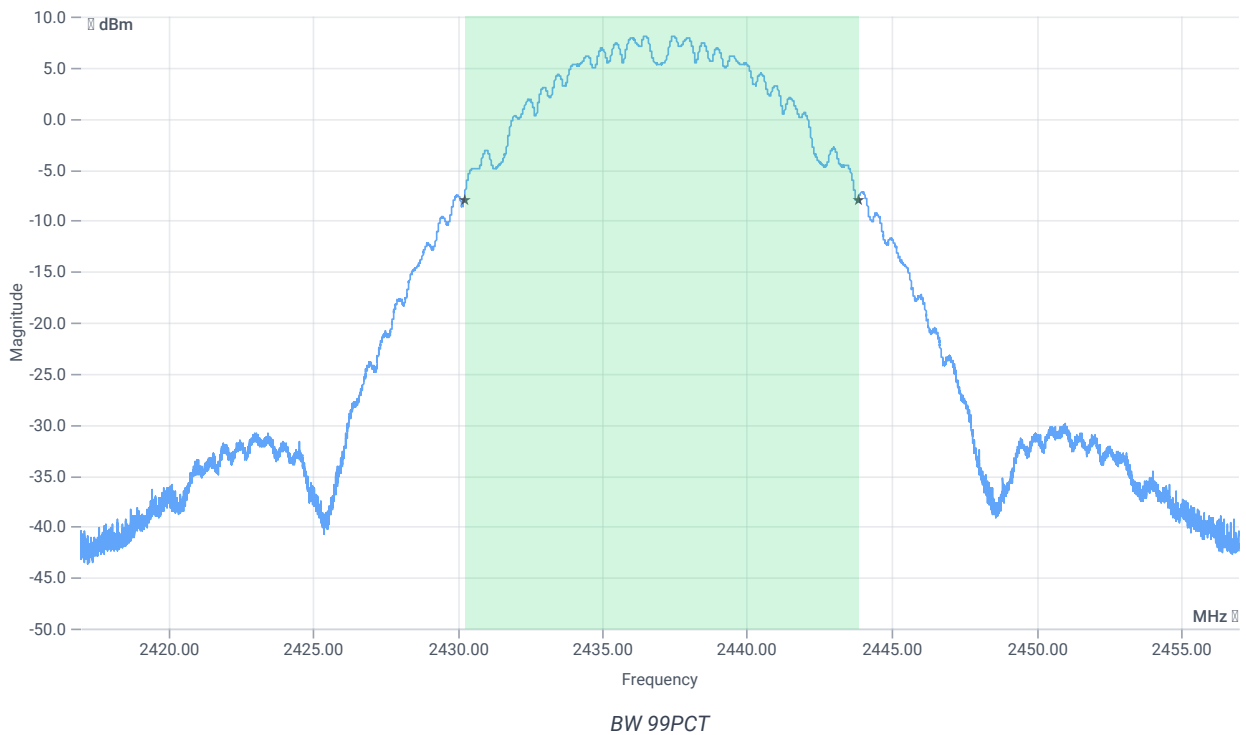
Test at TX 2437 MHz

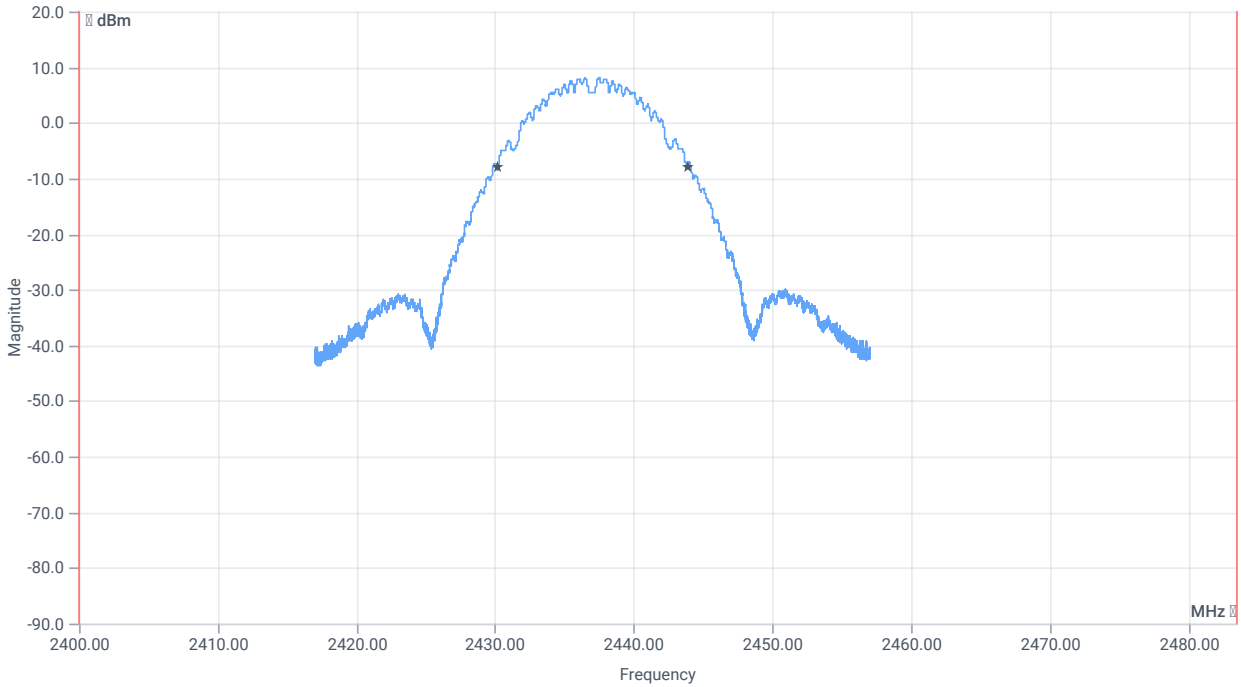
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 10.95 | dBm | INFO |
| Ref. frequency | -- | -- | 2437.000 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 15.95 8.83 25 |
| Start [MHz] Stop [MHz] | 2417.000 2457.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

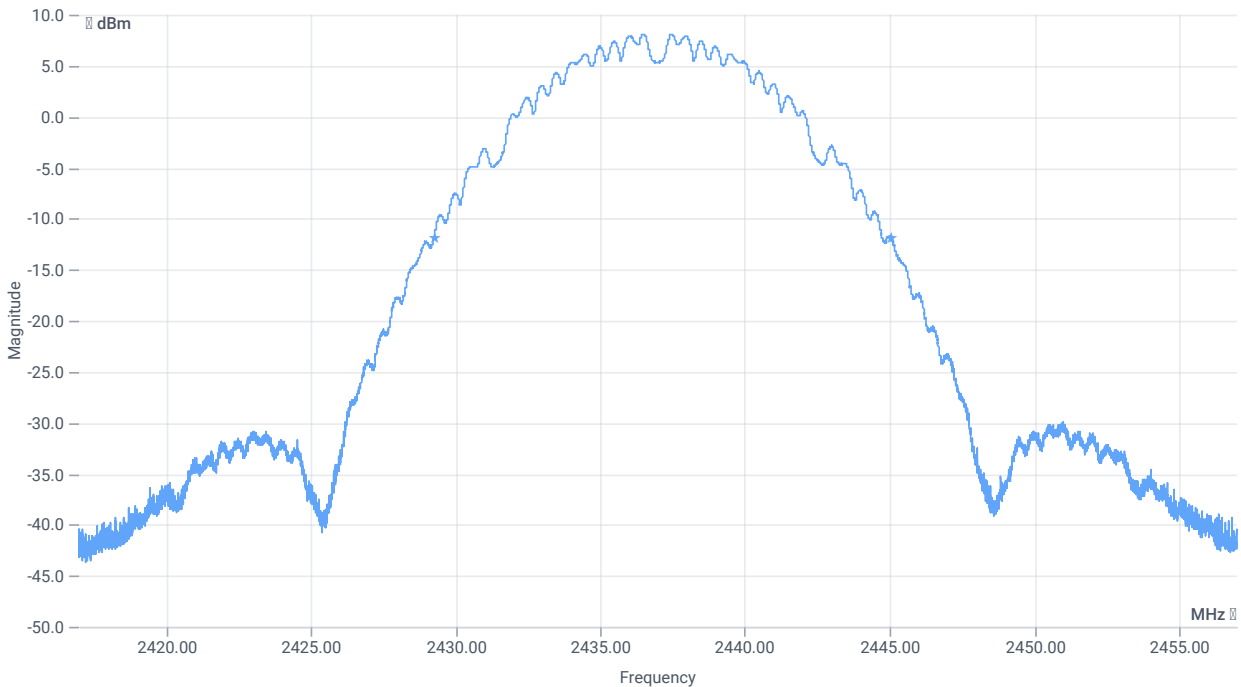




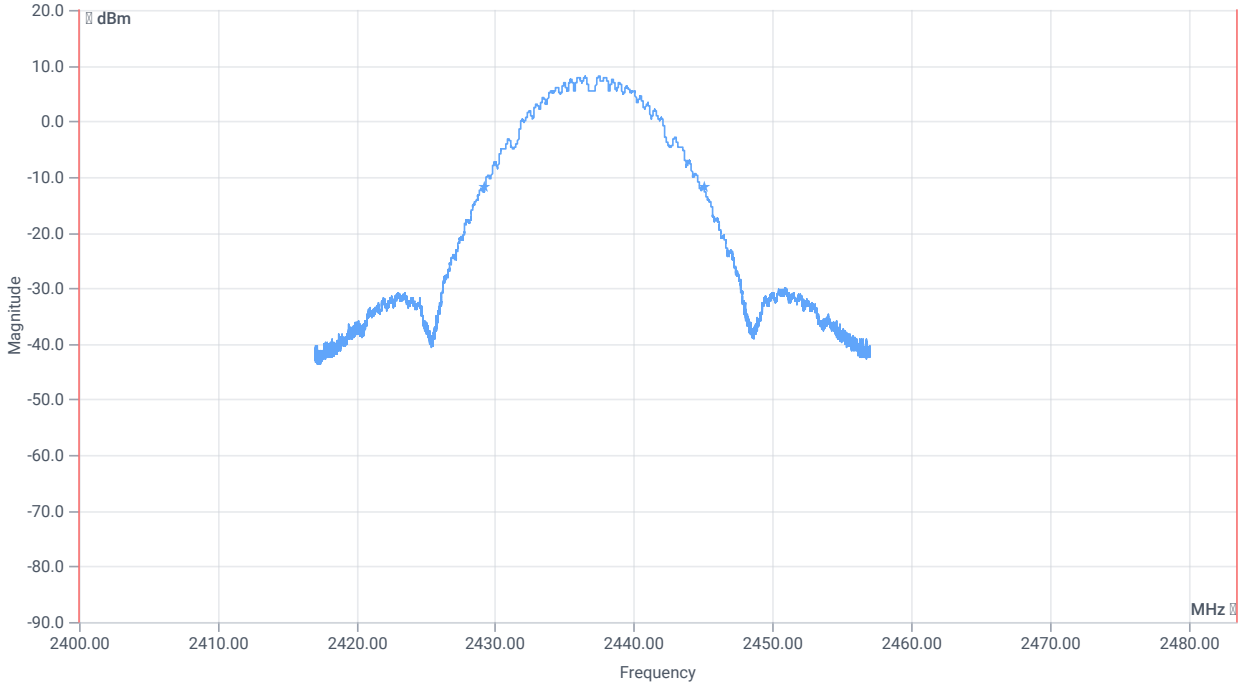
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 13615.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2430.2287 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2443.8433 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 15780 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2429.2640 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2445.0440 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|--|
| TC start | 24.01.2024 17:16:22 |
| Ambit temp [°C] humidity [rel%] | 27.9 29 |
| System version | 5.0.0.1 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

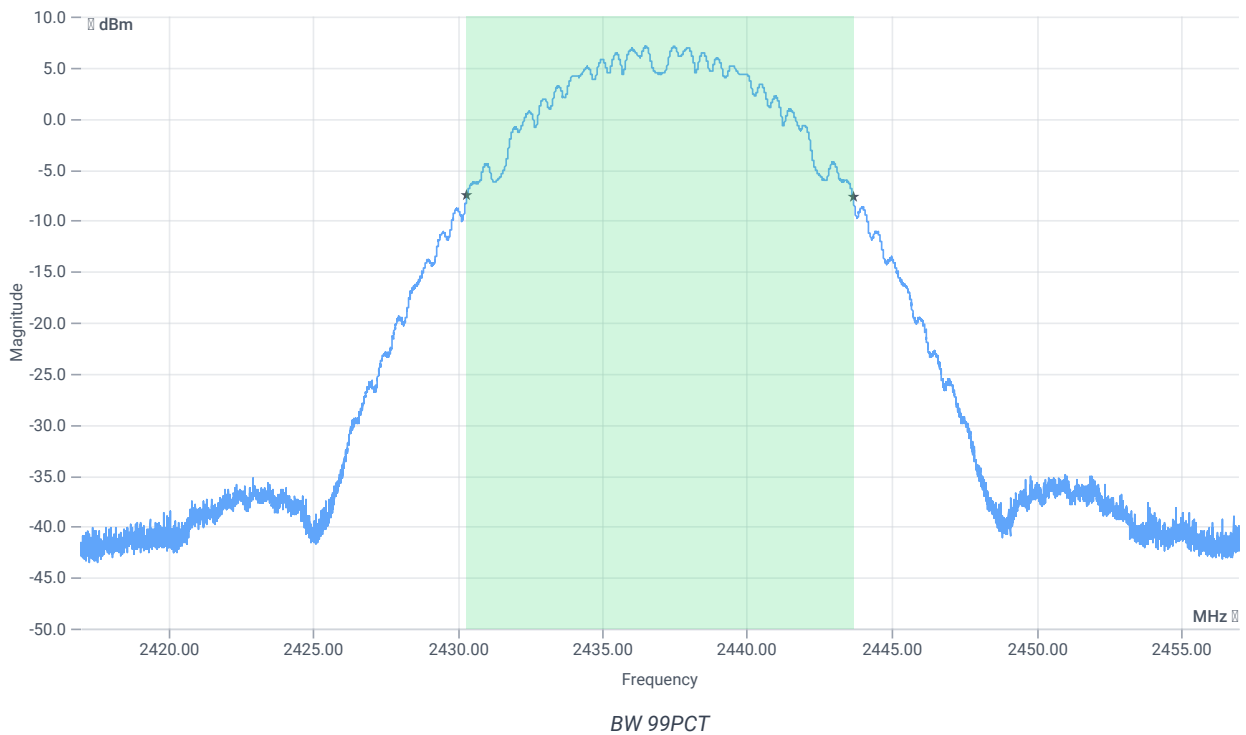
Test at TX 2437 MHz

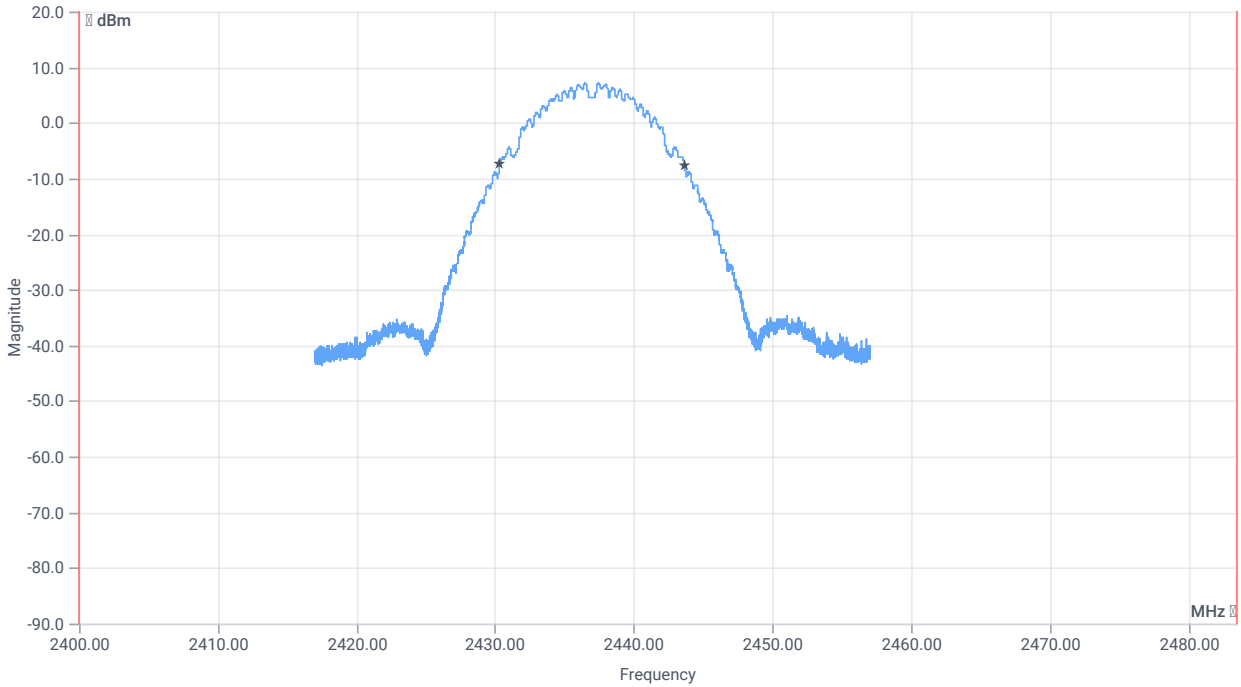
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 10.01 | dBm | INFO |
| Ref. frequency | -- | -- | 2438.200 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 15.01 8.8 25 |
| Start [MHz] Stop [MHz] | 2417.000 2457.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

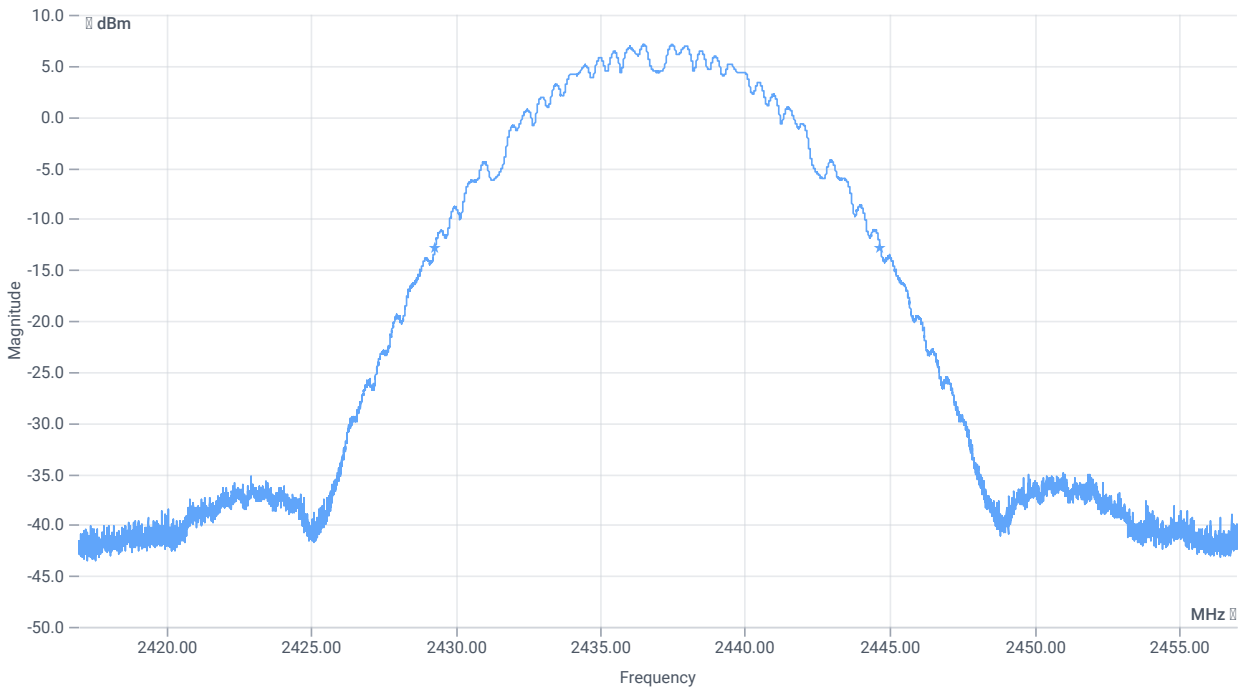




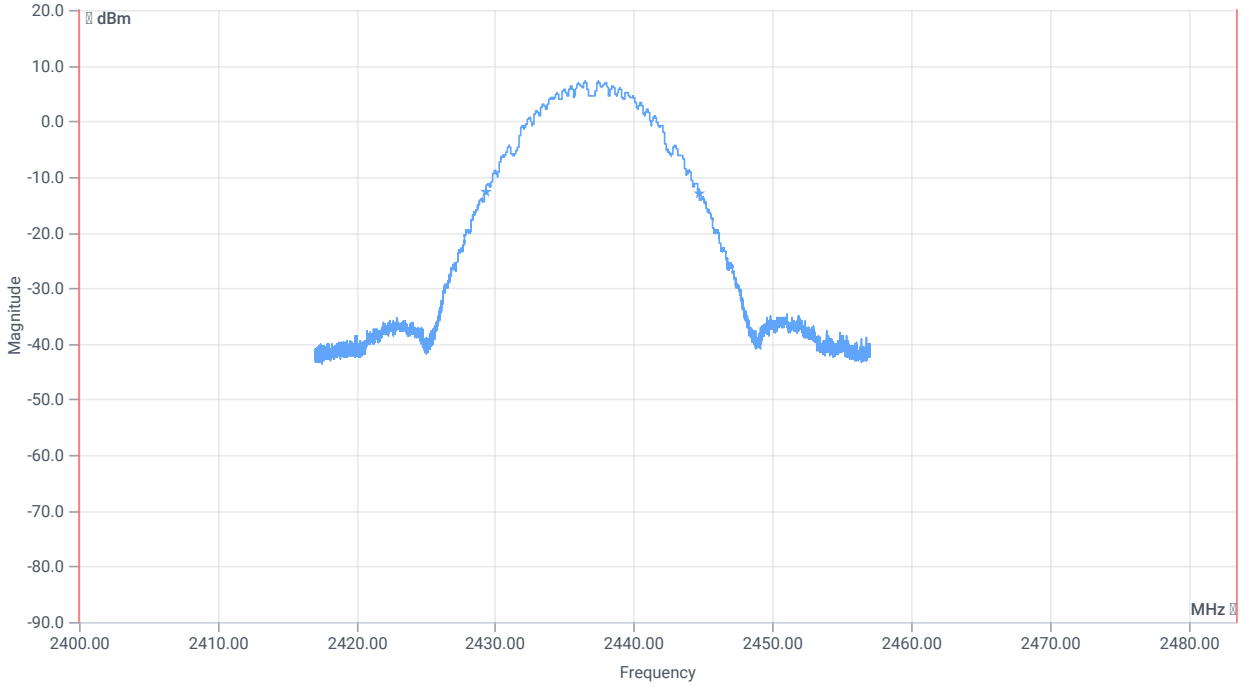
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 13323.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2430.3407 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2443.6633 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 15388 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2429.2960 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2444.6840 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|--|
| TC start | 24.01.2024 16:59:34 |
| Ambit temp [°C] humidity [rel%] | 28.1 29 |
| System version | 5.0.0.1 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| EUT port | EUT2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/ |
| Switch bits | 00100010:00010001:00000000:00000001 |

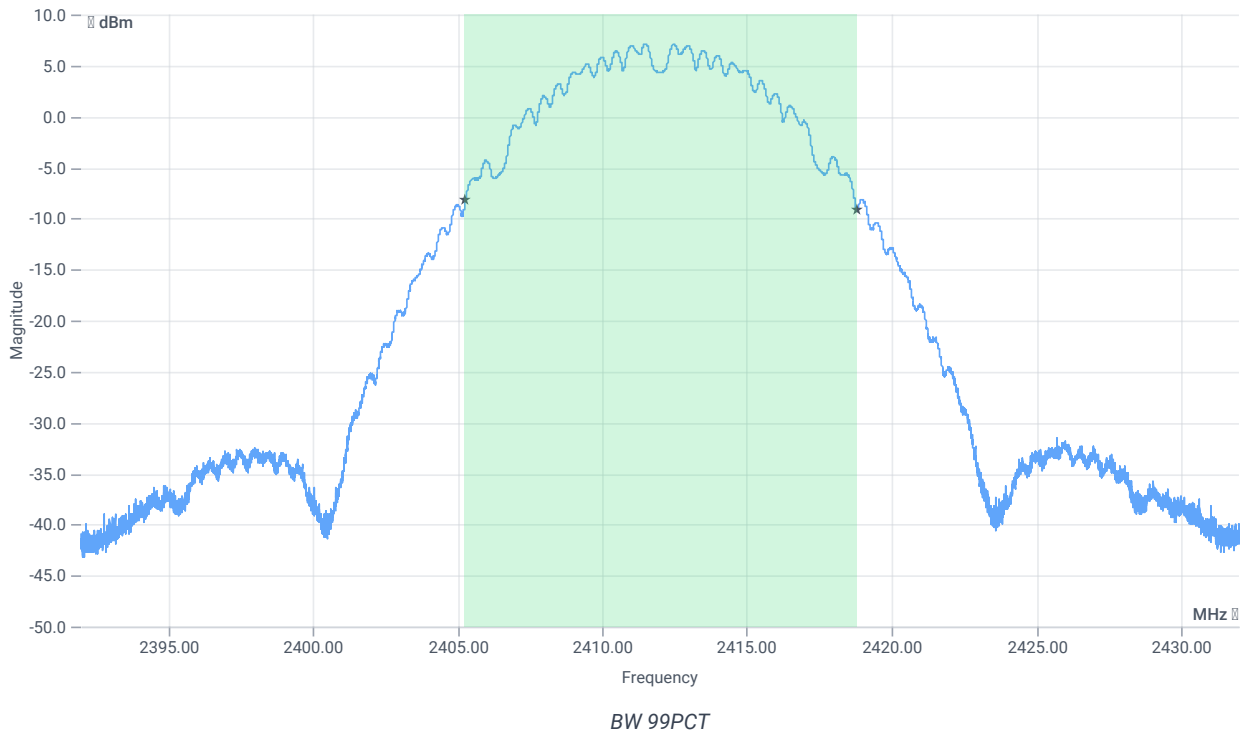
Test at TX 2412 MHz

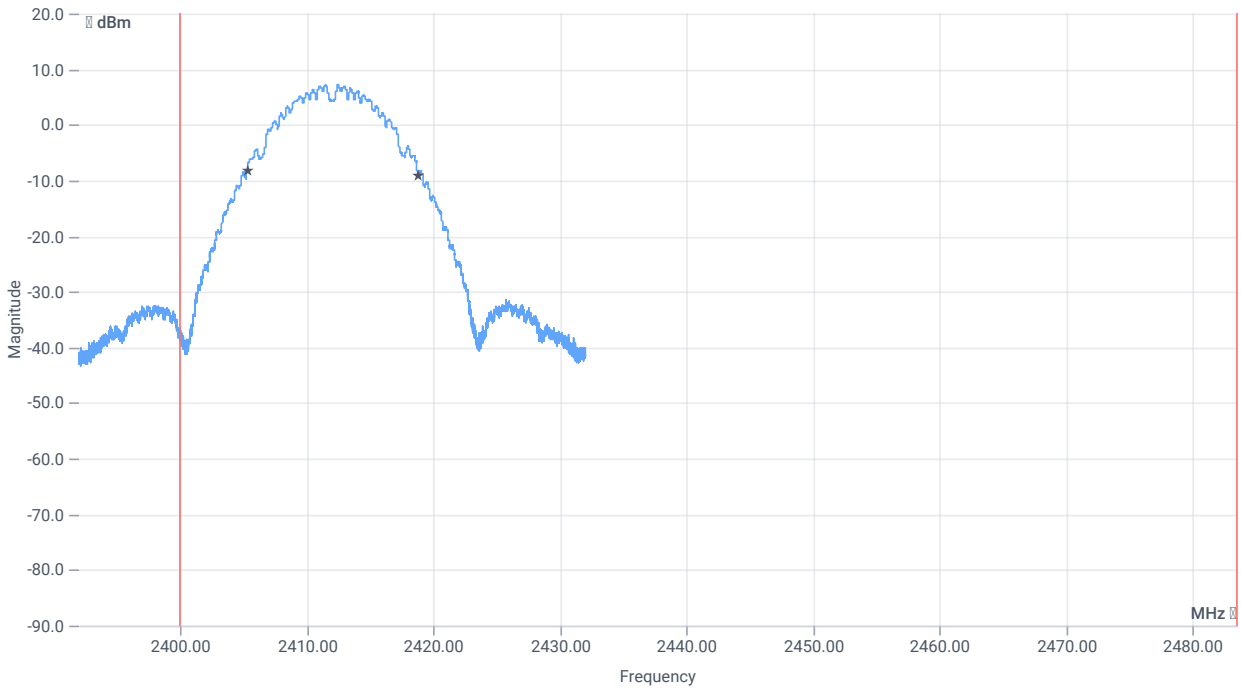
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 10.05 | dBm | INFO |
| Ref. frequency | -- | -- | 2413.200 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 15.05 8.82 25 |
| Start [MHz] Stop [MHz] | 2392.000 2432.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

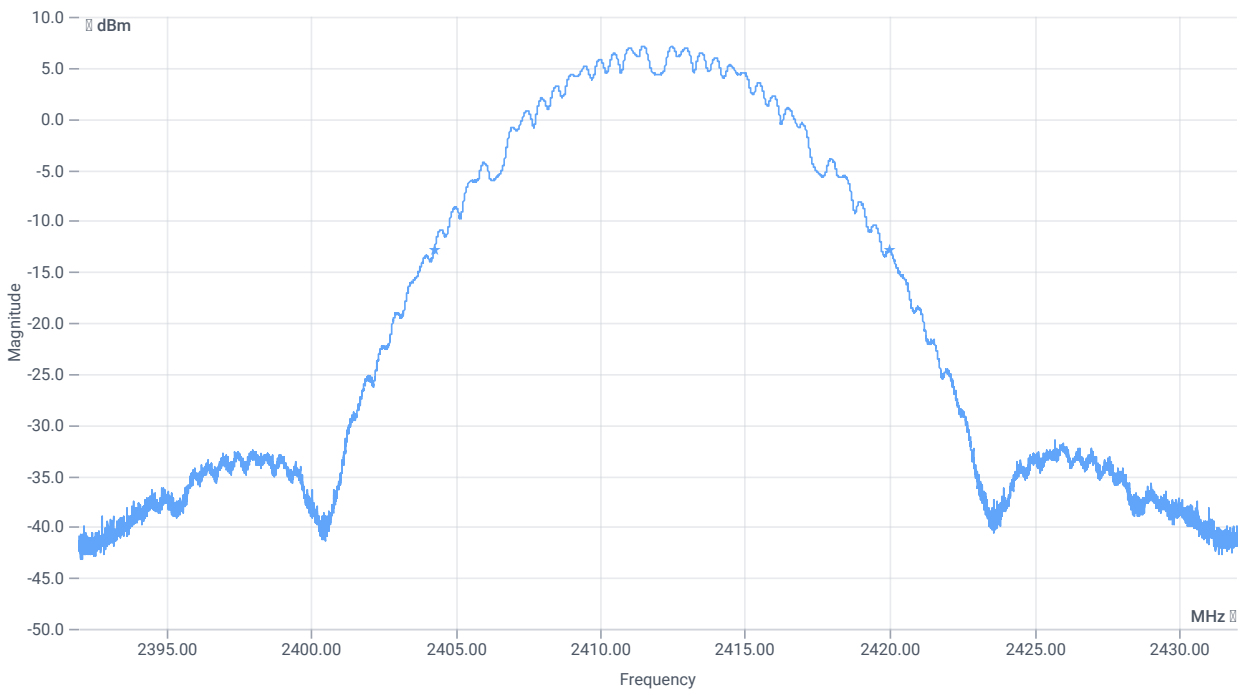




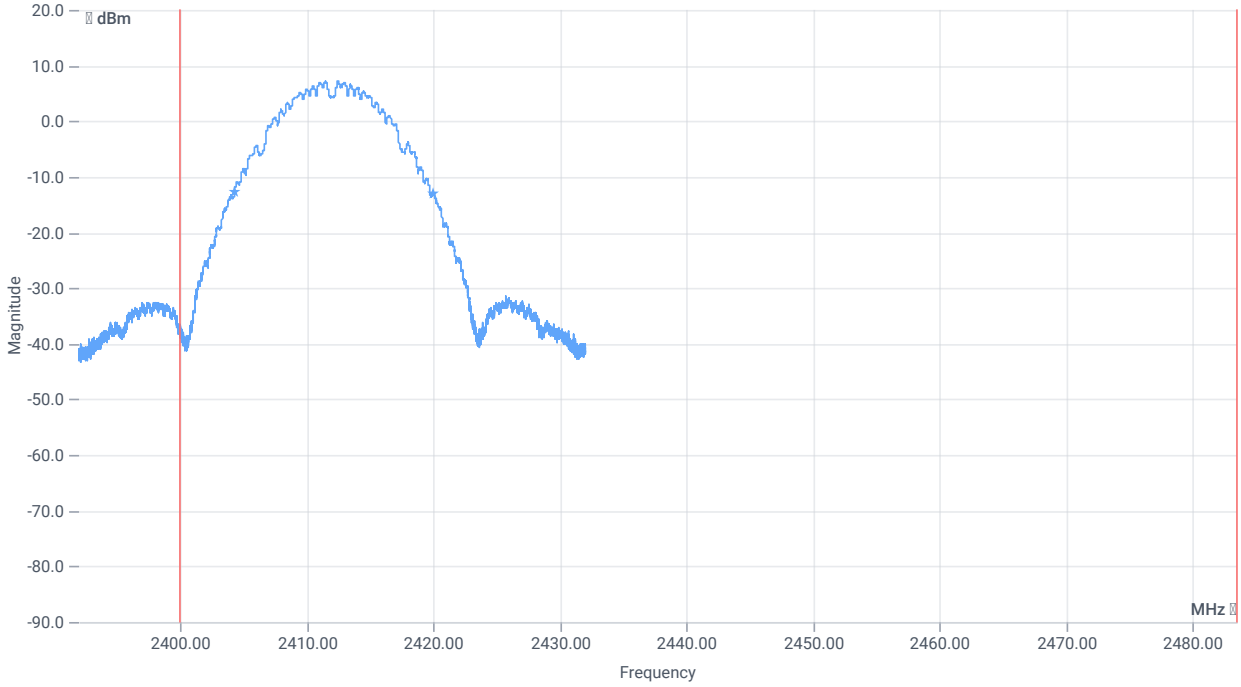
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 13543.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2405.2807 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2418.8233 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 15736 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2404.2760 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2420.0120 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|--|
| TC start | 24.01.2024 16:43:53 |
| Ambit temp [°C] humidity [rel%] | 28.4 29 |
| System version | 5.0.0.1 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT-20dB DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of antenna ports | 2 |
| User interaction | No |

Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0 |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

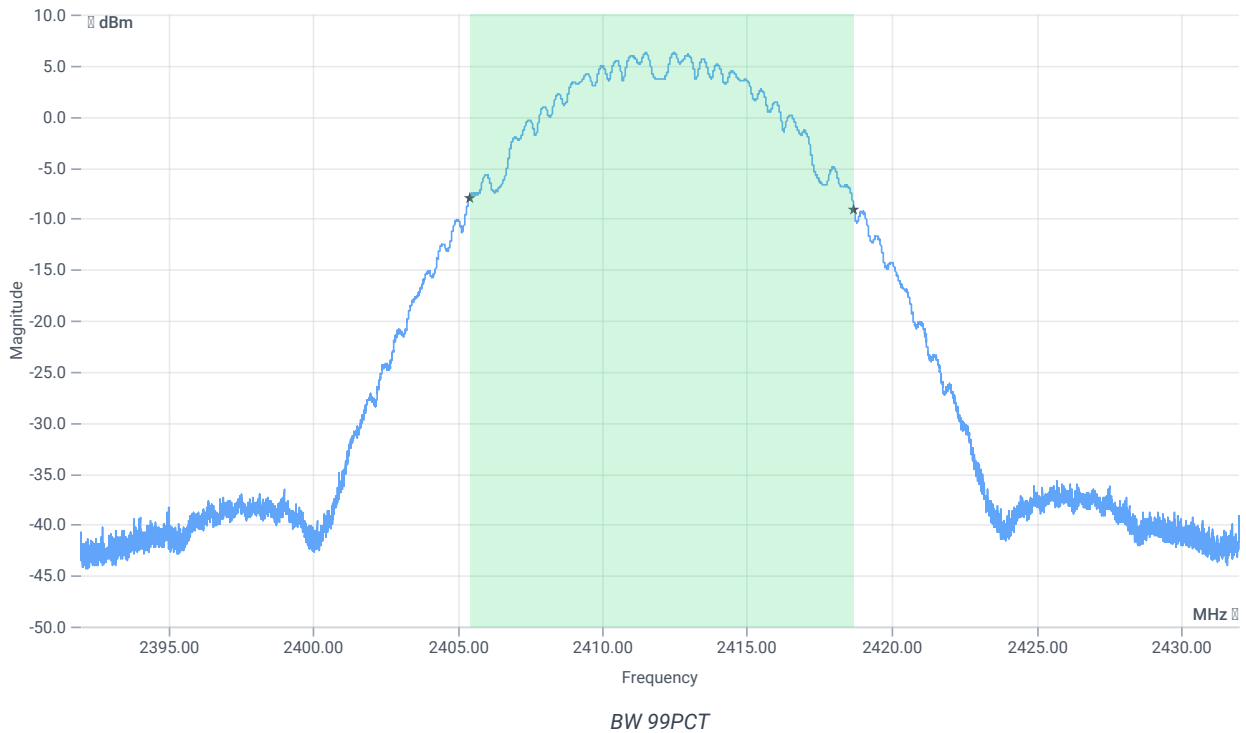
Test at TX 2412 MHz

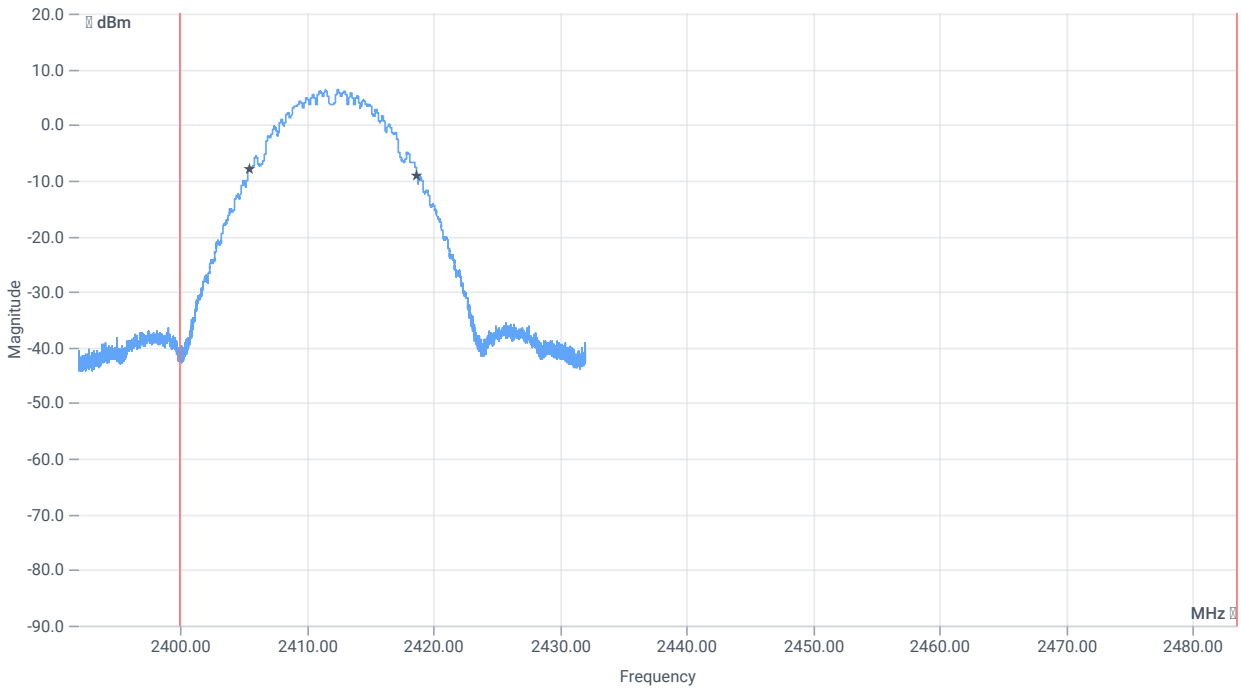
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 9.18 | dBm | INFO |
| Ref. frequency | -- | -- | 2413.200 | MHz | INFO |

READ SA SETTINGS:

| | |
|--|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 14.18 8.77 25 |
| Start [MHz] Stop [MHz] | 2392.000 2432.000 |
| RBW [MHz] VBW [MHz] | 0.500000 2.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

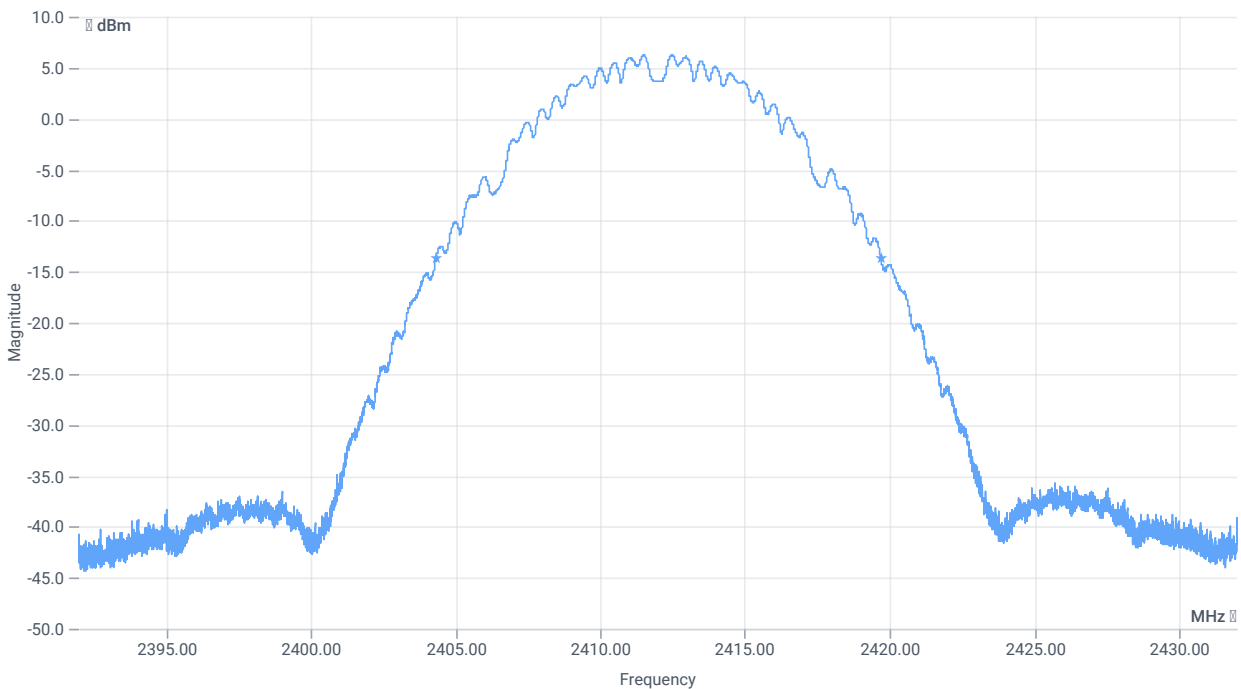




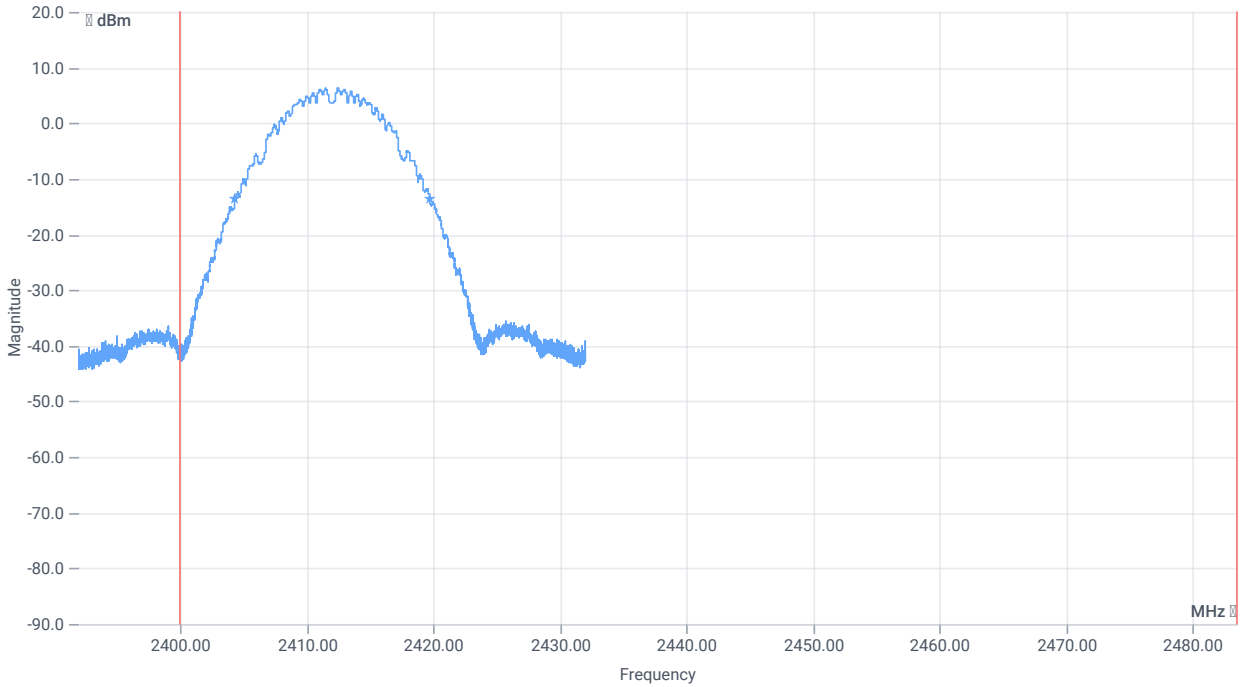
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 13287.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2405.4247 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2418.7113 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 15376 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2404.3280 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2419.7040 | MHz | PASS |

Verdict

PASS

FCC 15.247 # TX spurious conducted 30dBc ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 14:36:02 |
| Ambit temp [°C] humidity [rel%] | 23.6 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable |
| Description | FCC 15.247 TX Emissions Conducted 30dBc DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

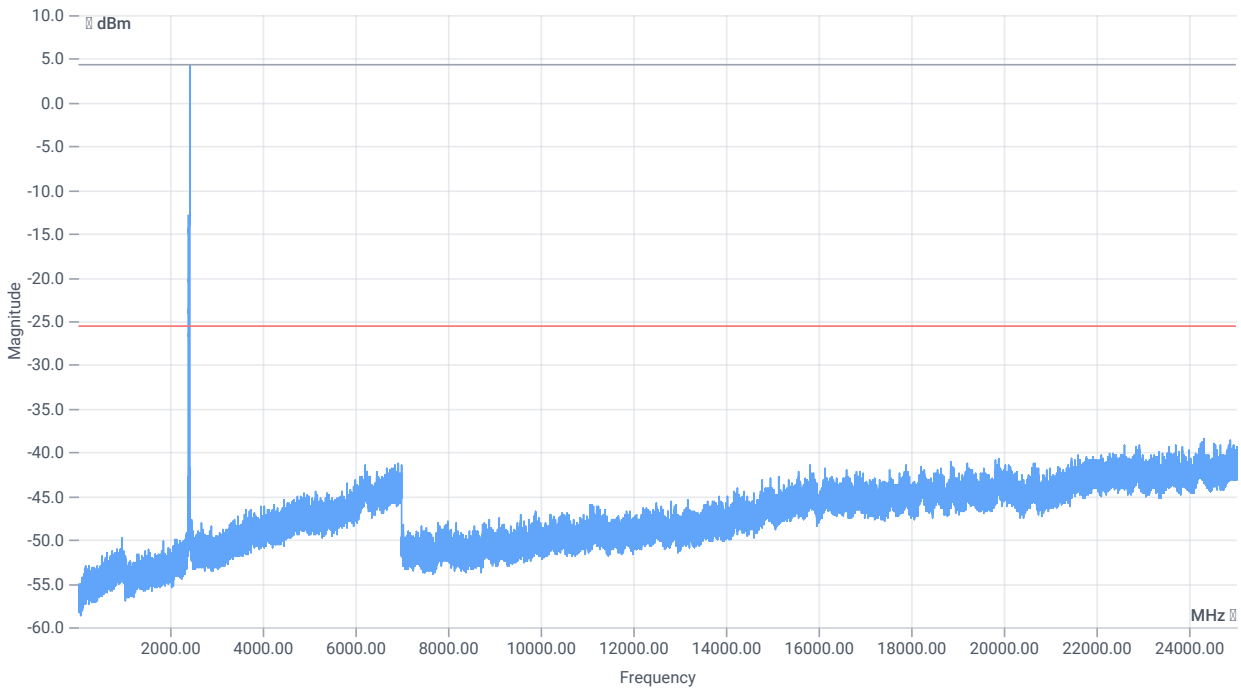
Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2412 MHz

RESULT: Reference Power cond.

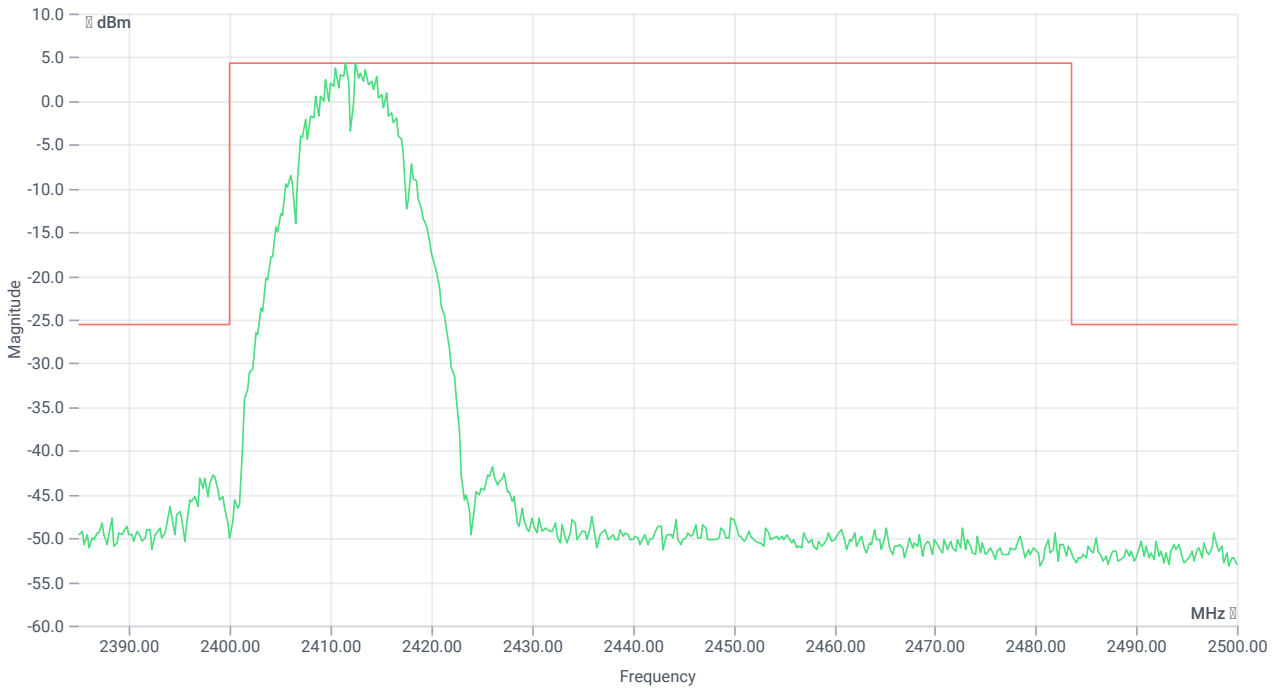
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 9.36 | dBm | INFO |
| Ref. Frequency | -- | -- | 2413.200 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 9.36 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 2001 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2411.50 MHz | -- | -- | 4.40 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 24301.5 MHz | 0 | -- | 12.86 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 30dBc ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 14:45:14 |
| Ambit temp [°C] humidity [rel%] | 23.6 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable |
| Description | FCC 15.247 TX Emissions Conducted 30dBc DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

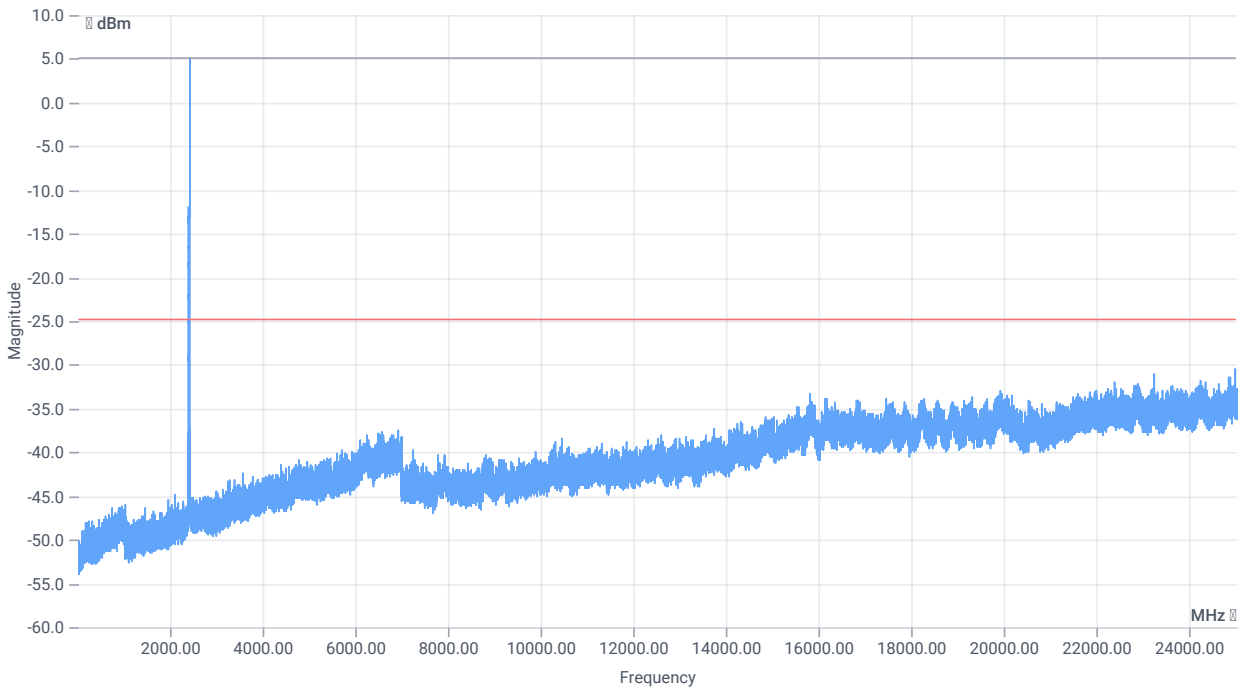
Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2412 MHz

RESULT: Reference Power cond.

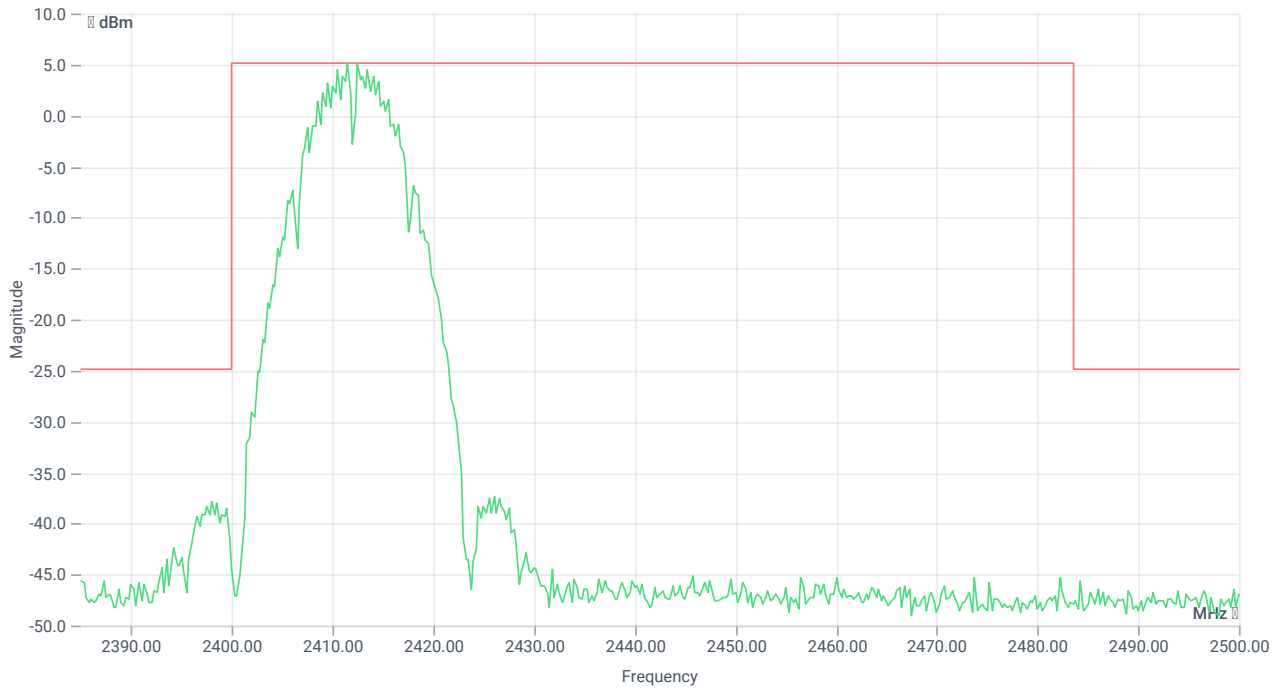
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 10.03 | dBm | INFO |
| Ref. Frequency | -- | -- | 2413.200 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 10.03 0 30 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 2001 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2411.50 MHz | -- | -- | 5.13 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 23228.75 MHz | 0 | -- | 6.16 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 30dBc ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 14:56:26 |
| Ambit temp [°C] humidity [rel%] | 23.7 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable |
| Description | FCC 15.247 TX Emissions Conducted 30dBc DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

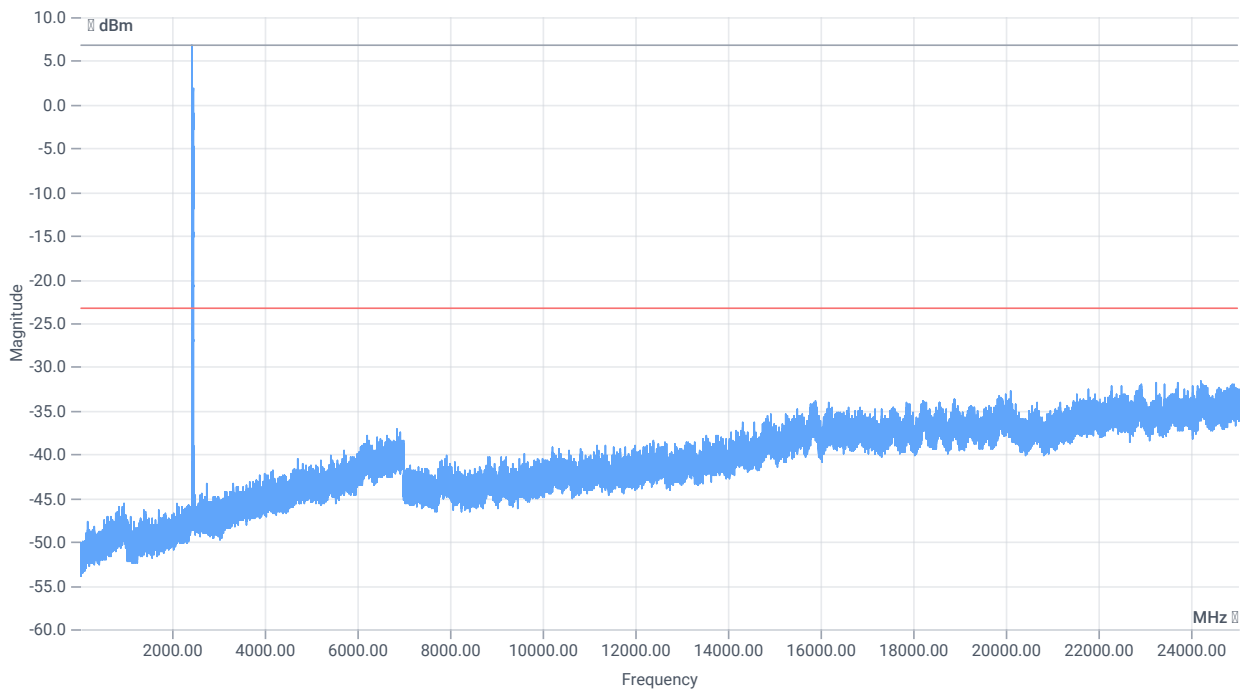
Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2437 MHz

RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 10.01 | dBm | INFO |
| Ref. Frequency | -- | -- | 2438.200 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 10.01 0 30 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 2001 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2438.00 MHz | -- | -- | 6.74 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 30 MHz | 0 | -- | -148.49 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 30dBc ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 15:05:33 |
| Ambit temp [°C] humidity [rel%] | 23.7 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable |
| Description | FCC 15.247 TX Emissions Conducted 30dBc DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

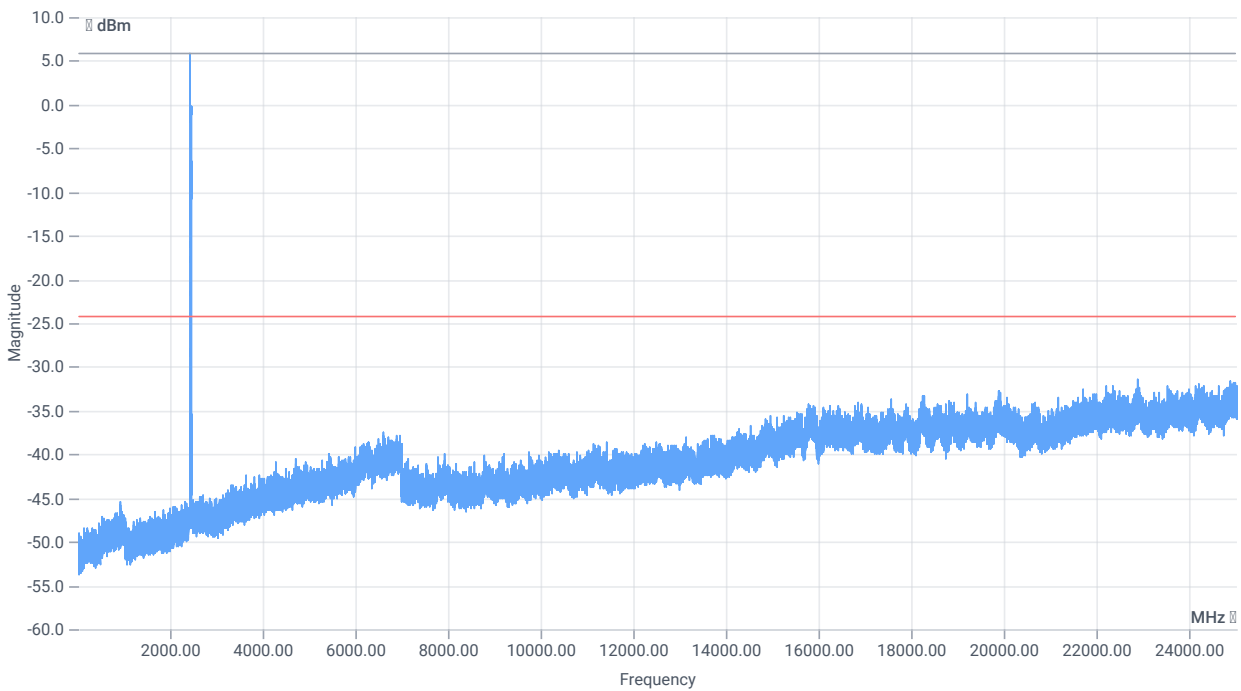
Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2437 MHz

RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 10.68 | dBm | INFO |
| Ref. Frequency | -- | -- | 2438.200 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 10.68 0 30 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 2001 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2436.50 MHz | -- | -- | 5.85 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 22885.5 MHz | 0 | -- | 7.3 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 30dBc ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 15:15:26 |
| Ambit temp [°C] humidity [rel%] | 23.8 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable |
| Description | FCC 15.247 TX Emissions Conducted 30dBc DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

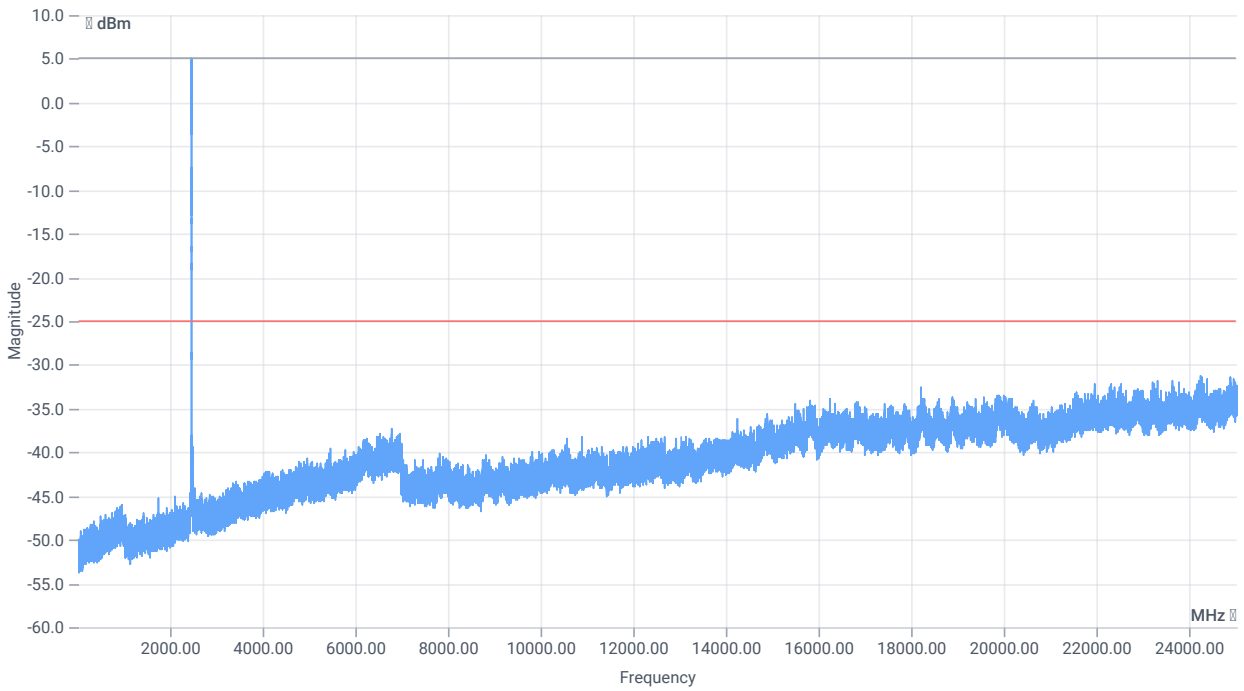
Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2462 MHz

RESULT: Reference Power cond.

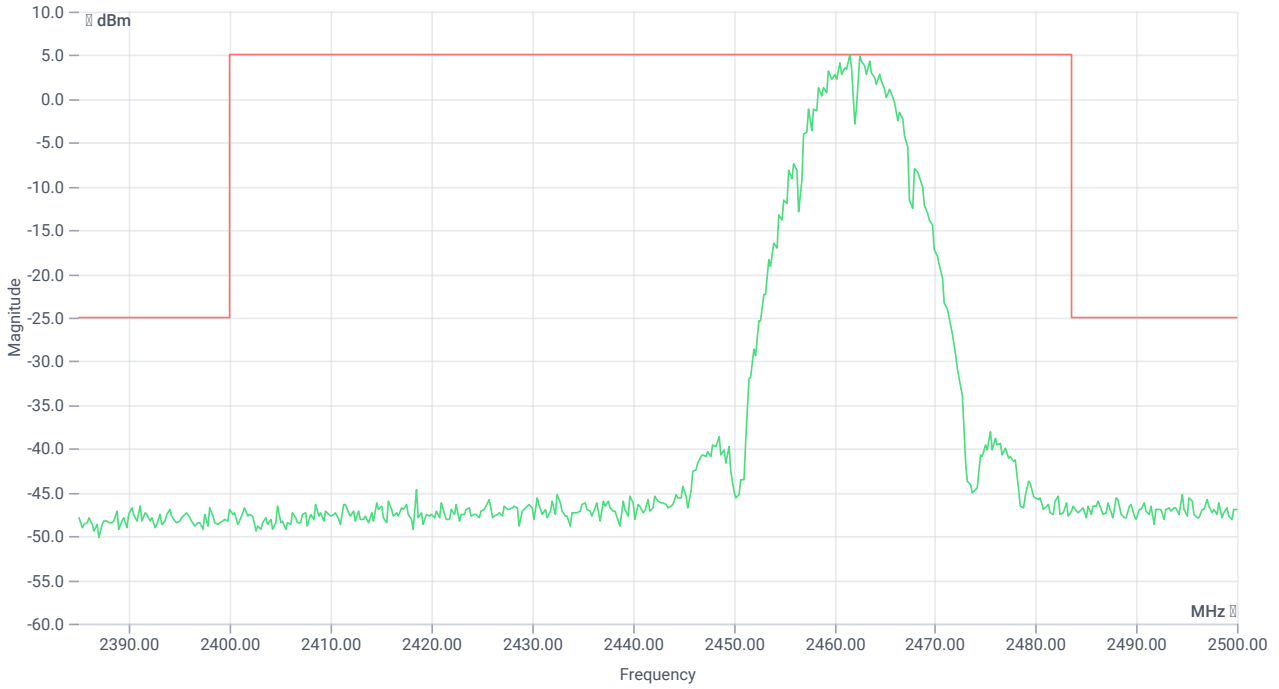
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 10.00 | dBm | INFO |
| Ref. Frequency | -- | -- | 2460.800 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 10.00 0 30 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 2001 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2461.50 MHz | -- | -- | 4.99 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 24256.25 MHz | 0 | -- | 6.29 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 30dBc ~ WLAN2G4 b mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 15:24:29 |
| Ambit temp [°C] humidity [rel%] | 24.0 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable |
| Description | FCC 15.247 TX Emissions Conducted 30dBc DTS - WLAN2G4 b mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 b mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

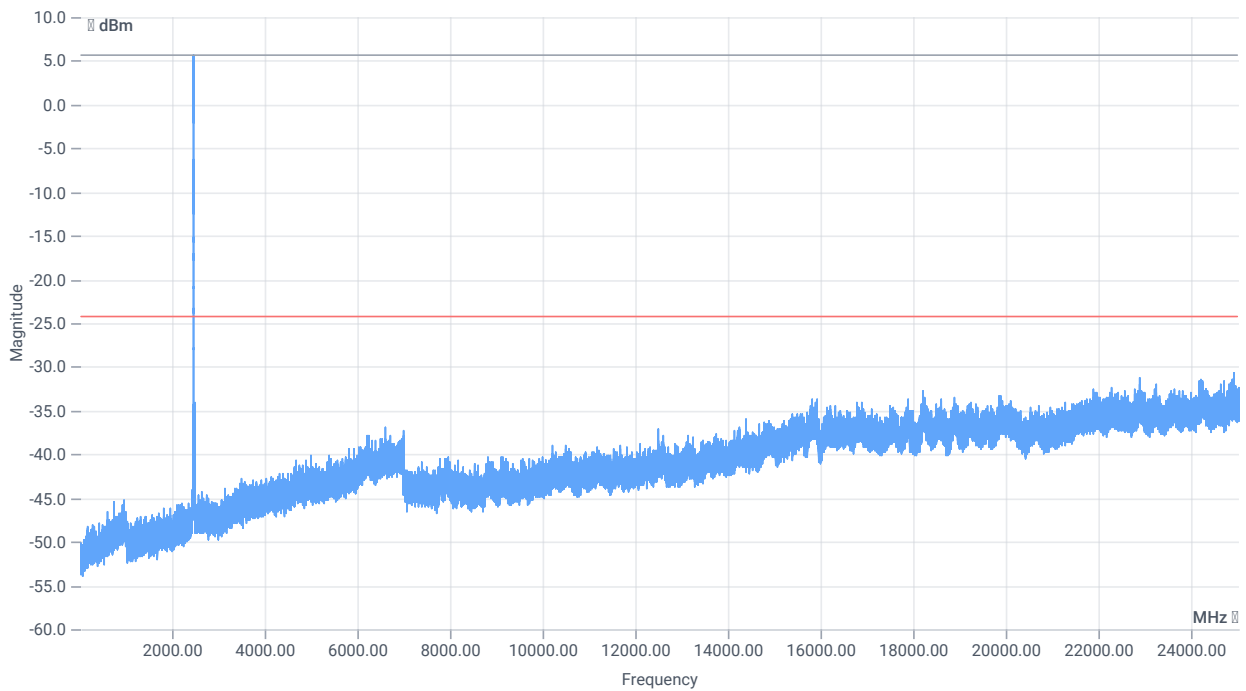
Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2462 MHz

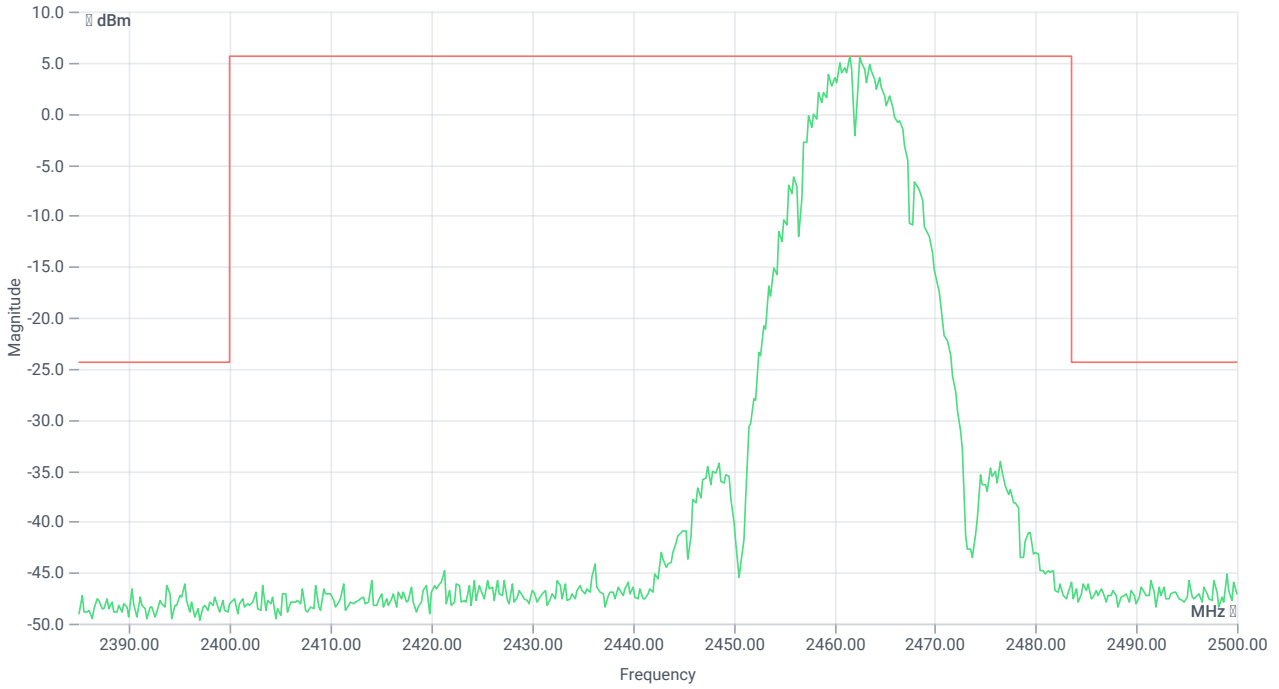
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 10.56 | dBm | INFO |
| Ref. Frequency | -- | -- | 2460.800 | MHz | INFO |



READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 10.56 0 30 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 2001 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2461.50 MHz | -- | -- | 5.68 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 30 MHz | 0 | -- | -148.83 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 30dBc ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 15:35:42 |
| Ambit temp [°C] humidity [rel%] | 23.8 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable |
| Description | FCC 15.247 TX Emissions Conducted 30dBc DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

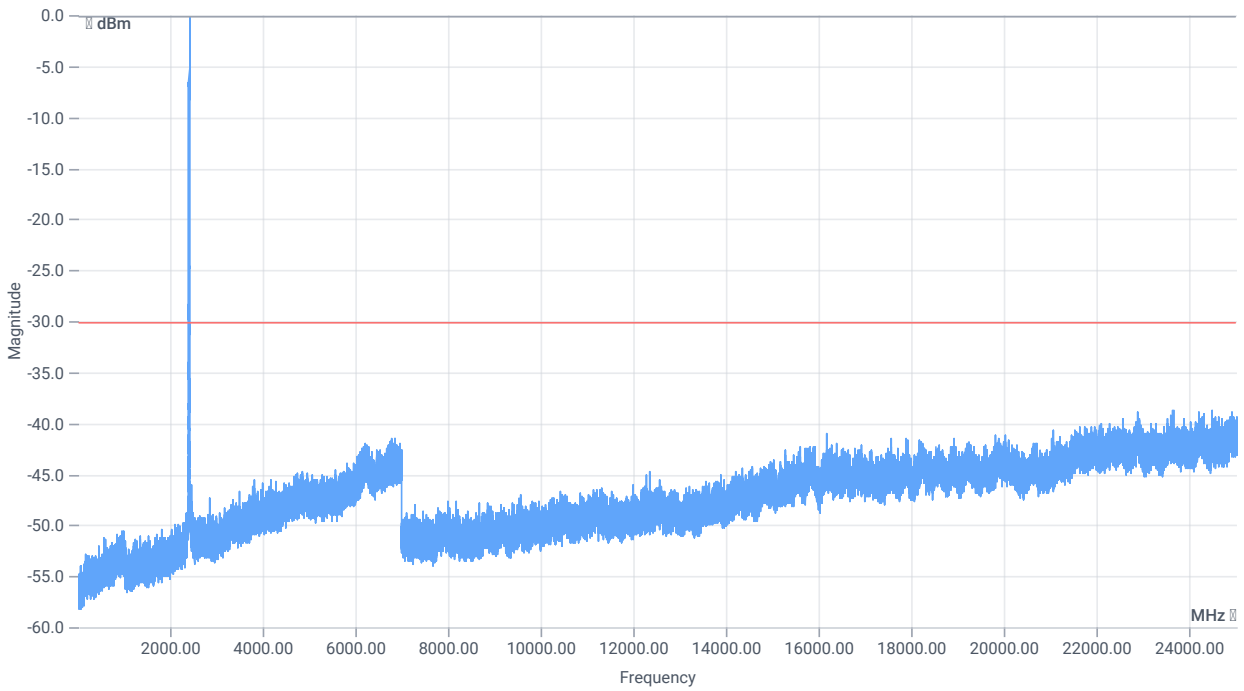
Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2412 MHz

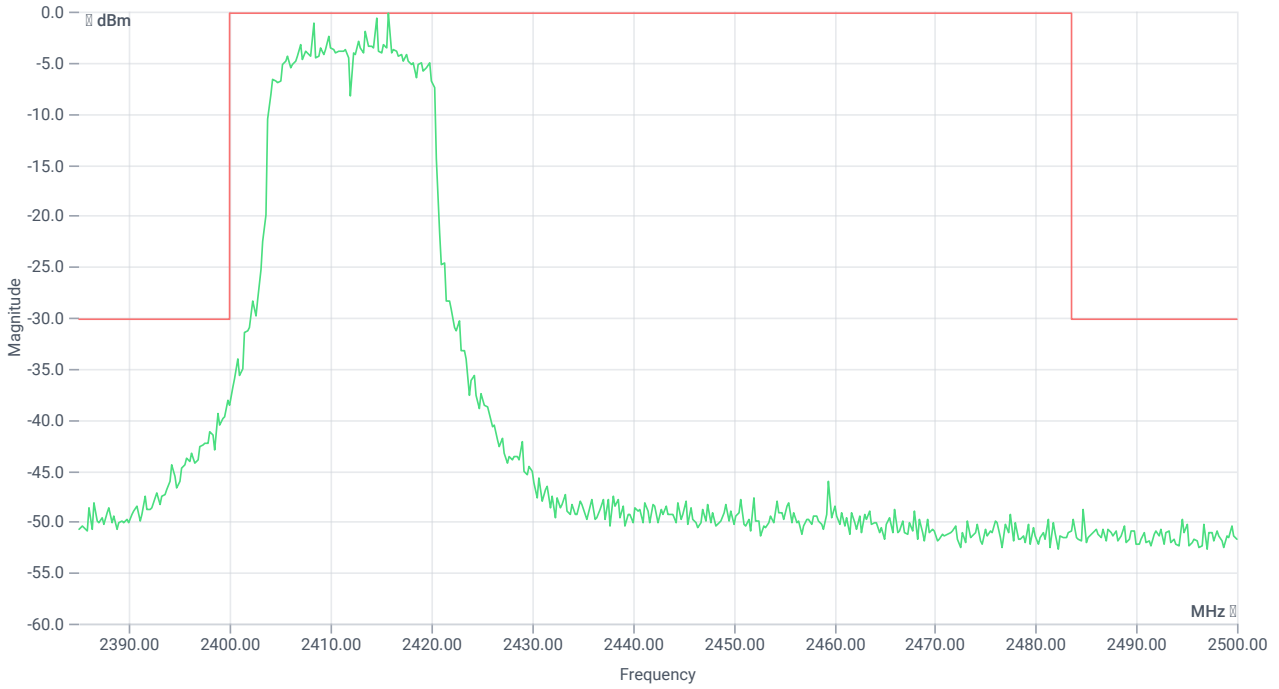
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 7.63 | dBm | INFO |
| Ref. Frequency | -- | -- | 2410.000 | MHz | INFO |



READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.63 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 2001 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2415.75 MHz | -- | -- | -0.20 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 2399.75 MHz | 0 | -- | 7.84 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 30dBc ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 15:44:48 |
| Ambit temp [°C] humidity [rel%] | 23.8 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable |
| Description | FCC 15.247 TX Emissions Conducted 30dBc DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

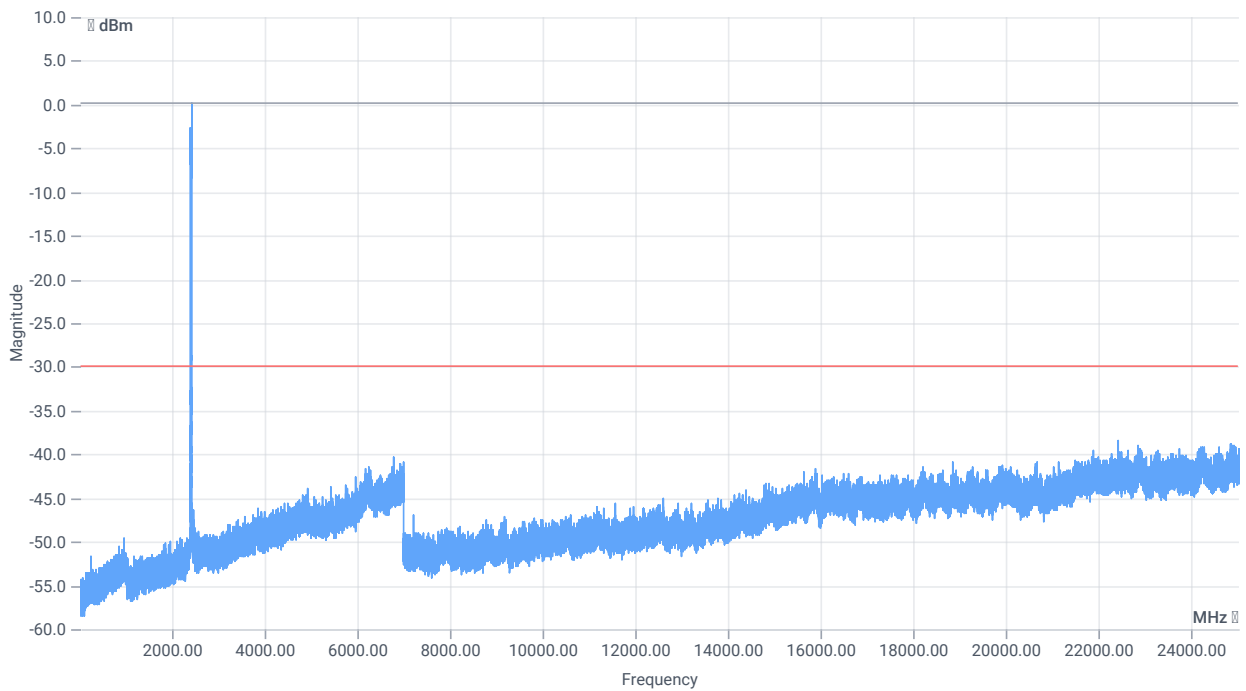
Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2412 MHz

RESULT: Reference Power cond.

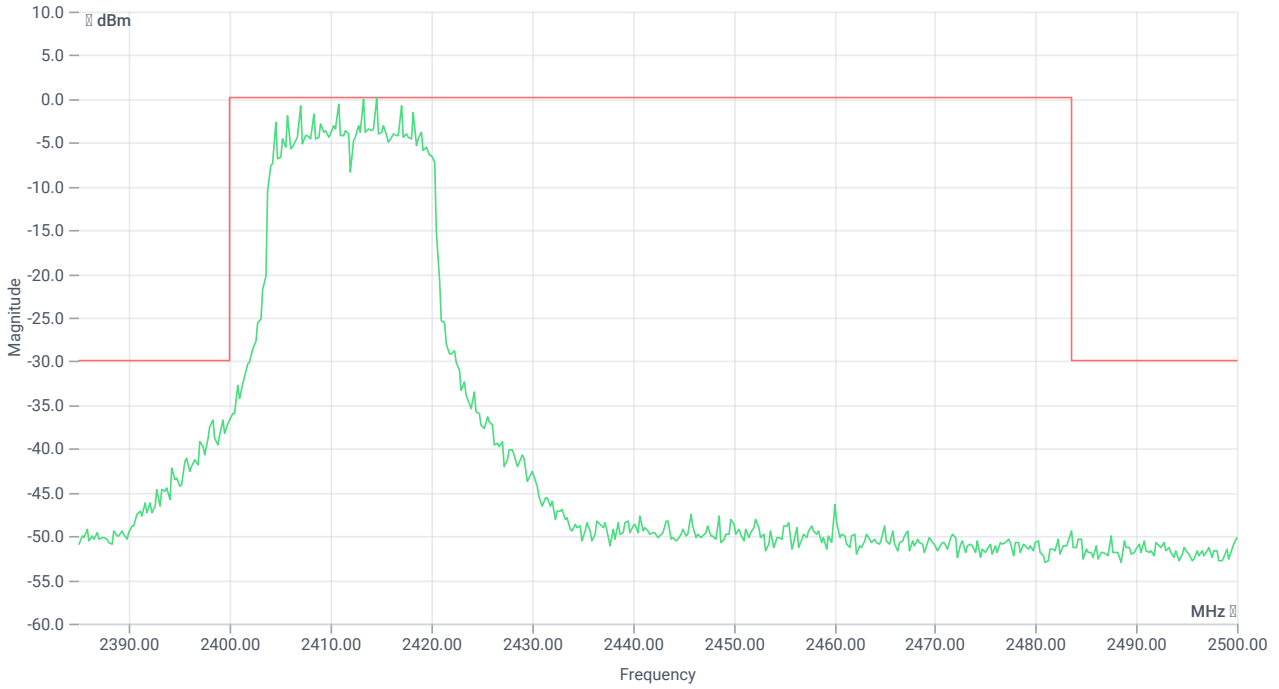
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.64 | dBm | INFO |
| Ref. Frequency | -- | -- | 2409.700 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 8.64 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 2001 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2414.50 MHz | -- | -- | 0.13 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 2399.25 MHz | 0 | -- | 6.81 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 30dBc ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 15:54:08 |
| Ambit temp [°C] humidity [rel%] | 23.7 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable |
| Description | FCC 15.247 TX Emissions Conducted 30dBc DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

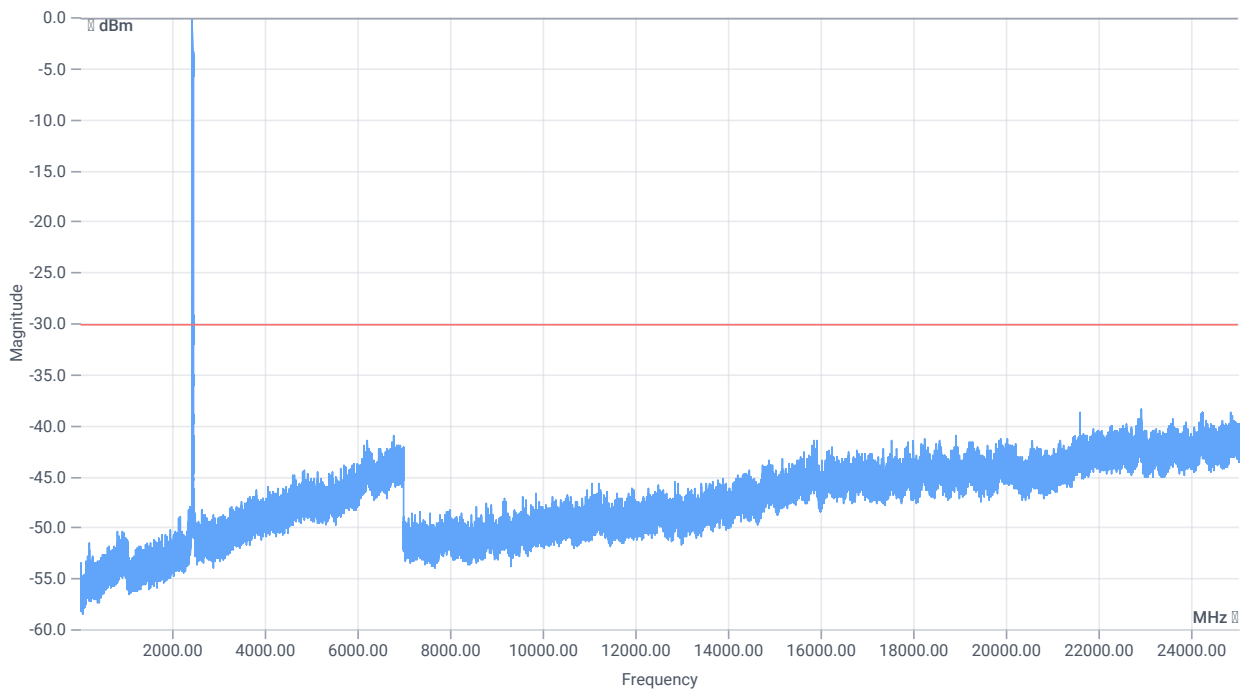
Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2437 MHz

RESULT: Reference Power cond.

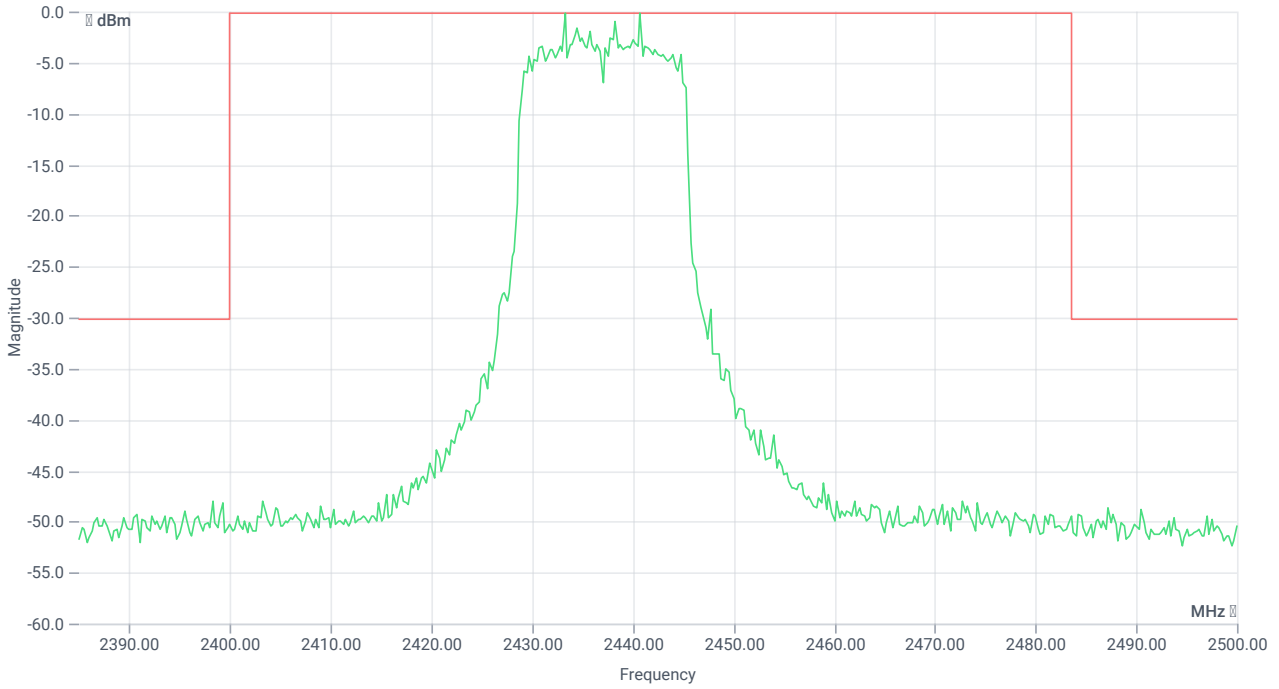
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.21 | dBm | INFO |
| Ref. Frequency | -- | -- | 2434.000 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 8.21 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 2001 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2440.75 MHz | -- | -- | -0.17 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 30 MHz | 0 | -- | -142.94 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 30dBc ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 16:03:13 |
| Ambit temp [°C] humidity [rel%] | 23.7 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable |
| Description | FCC 15.247 TX Emissions Conducted 30dBc DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

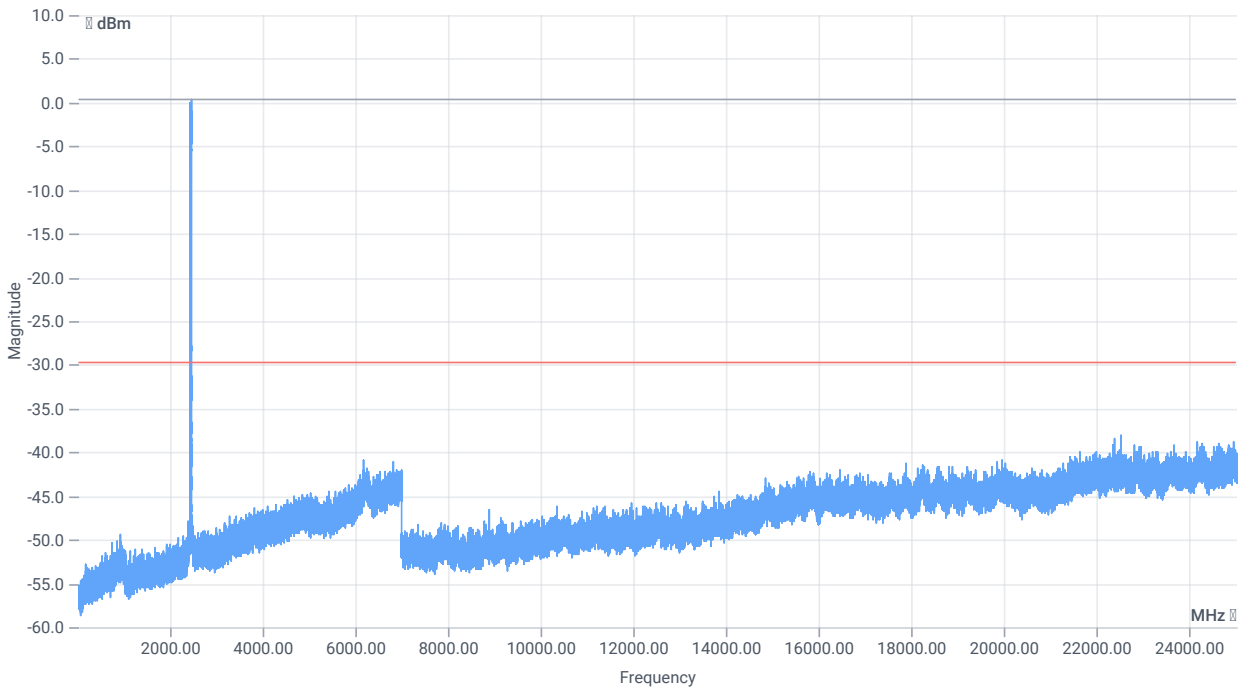
Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2437 MHz

RESULT: Reference Power cond.

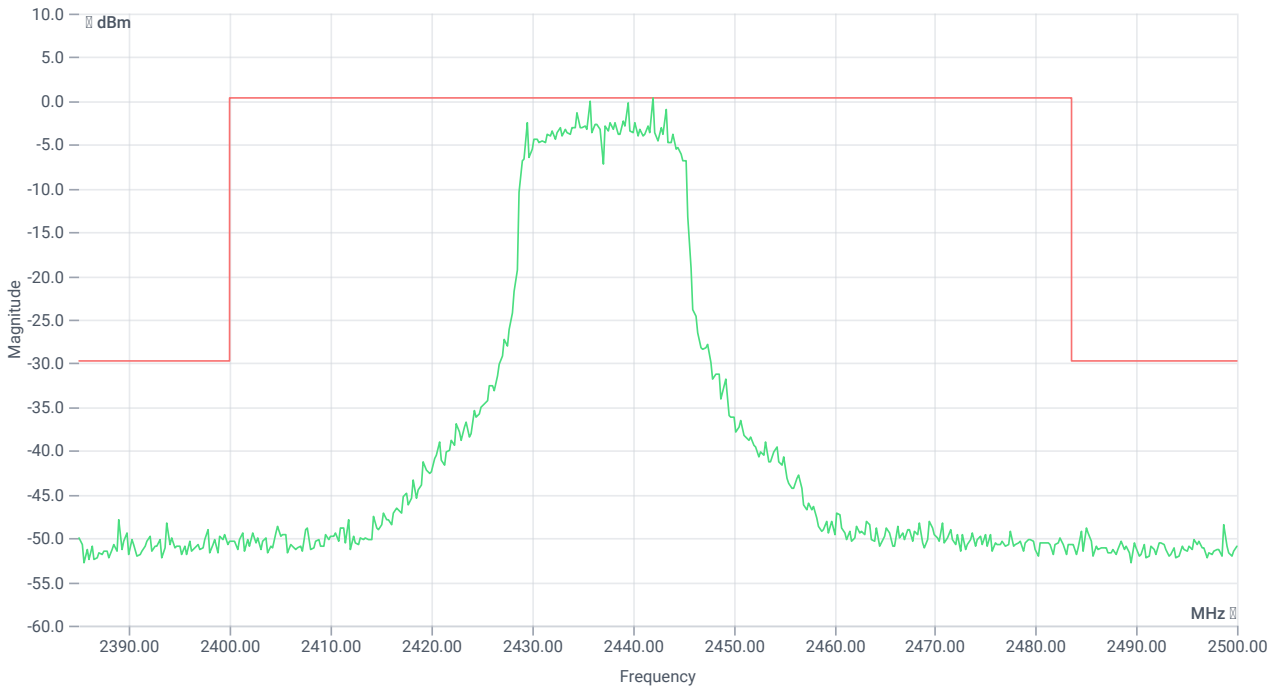
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 9.37 | dBm | INFO |
| Ref. Frequency | -- | -- | 2439.800 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 9.37 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 2001 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2442.00 MHz | -- | -- | 0.26 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 22525 MHz | 0 | -- | 8.31 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 30dBc ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 16:12:47 |
| Ambit temp [°C] humidity [rel%] | 23.8 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable |
| Description | FCC 15.247 TX Emissions Conducted 30dBc DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

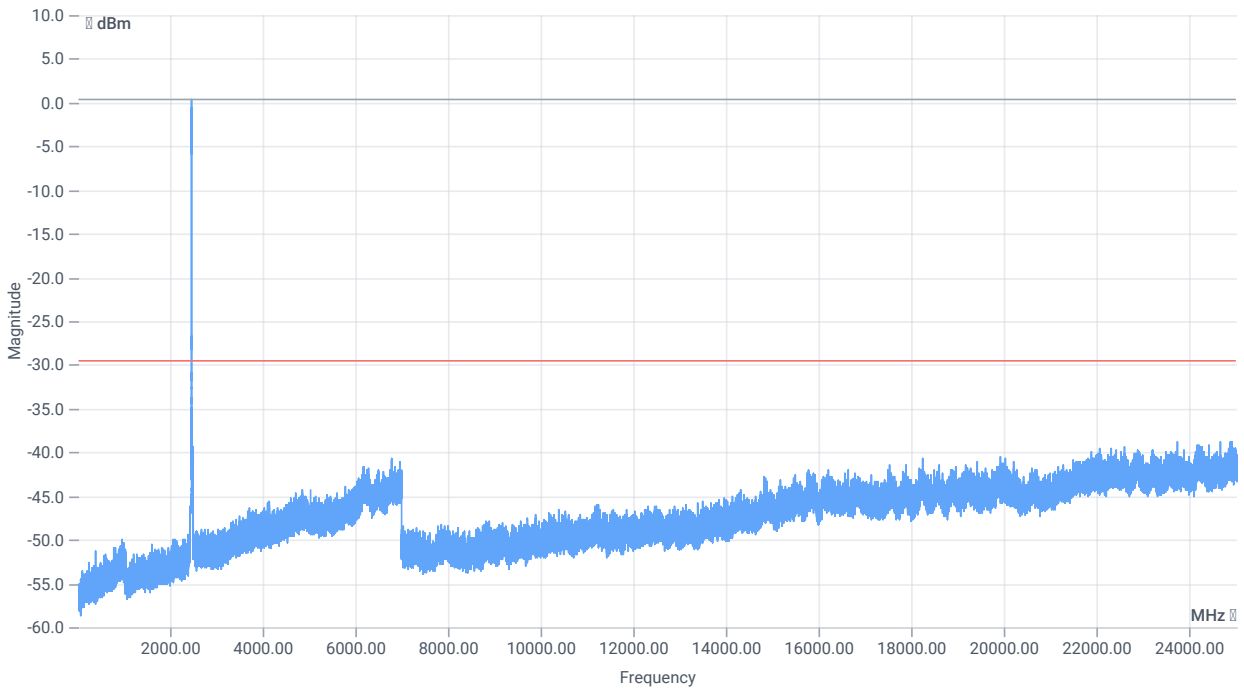
Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2462 MHz

RESULT: Reference Power cond.

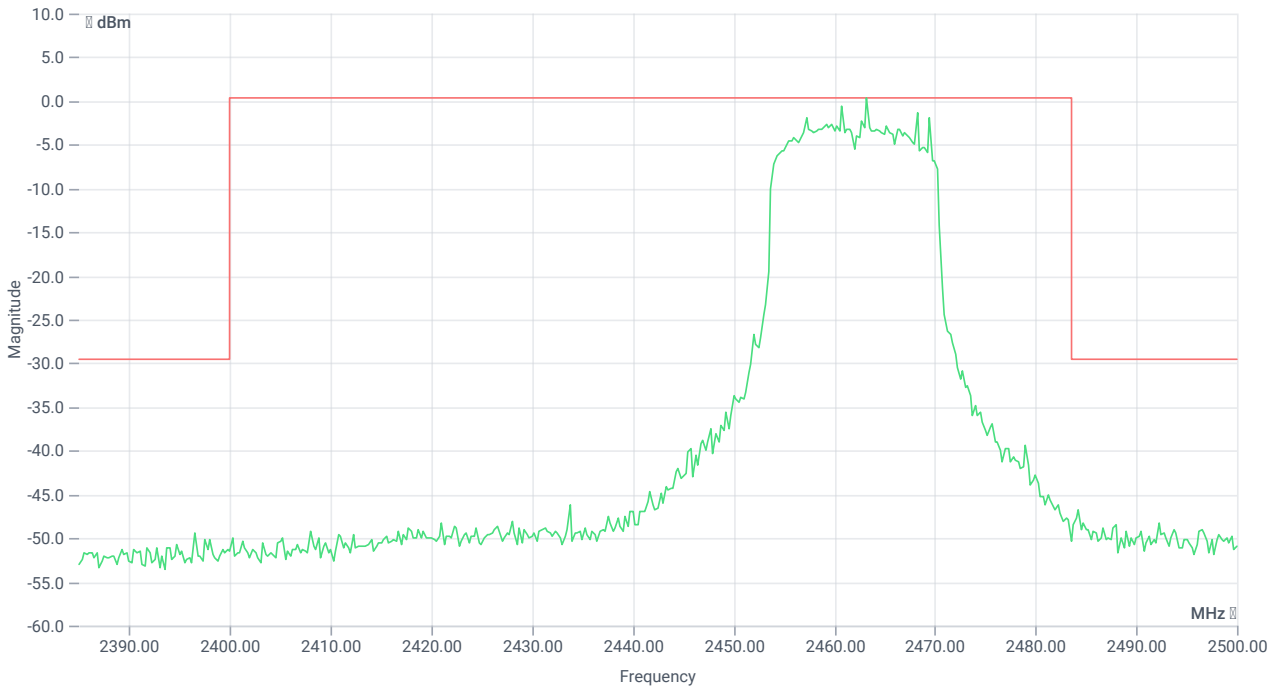
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.65 | dBm | INFO |
| Ref. Frequency | -- | -- | 2459.300 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 8.65 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 2001 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2463.25 MHz | -- | -- | 0.44 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 24879.75 MHz | 0 | -- | 9.27 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 30dBc ~ WLAN2G4 g mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 16:21:53 |
| Ambit temp [°C] humidity [rel%] | 23.9 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable |
| Description | FCC 15.247 TX Emissions Conducted 30dBc DTS - WLAN2G4 g mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 g mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

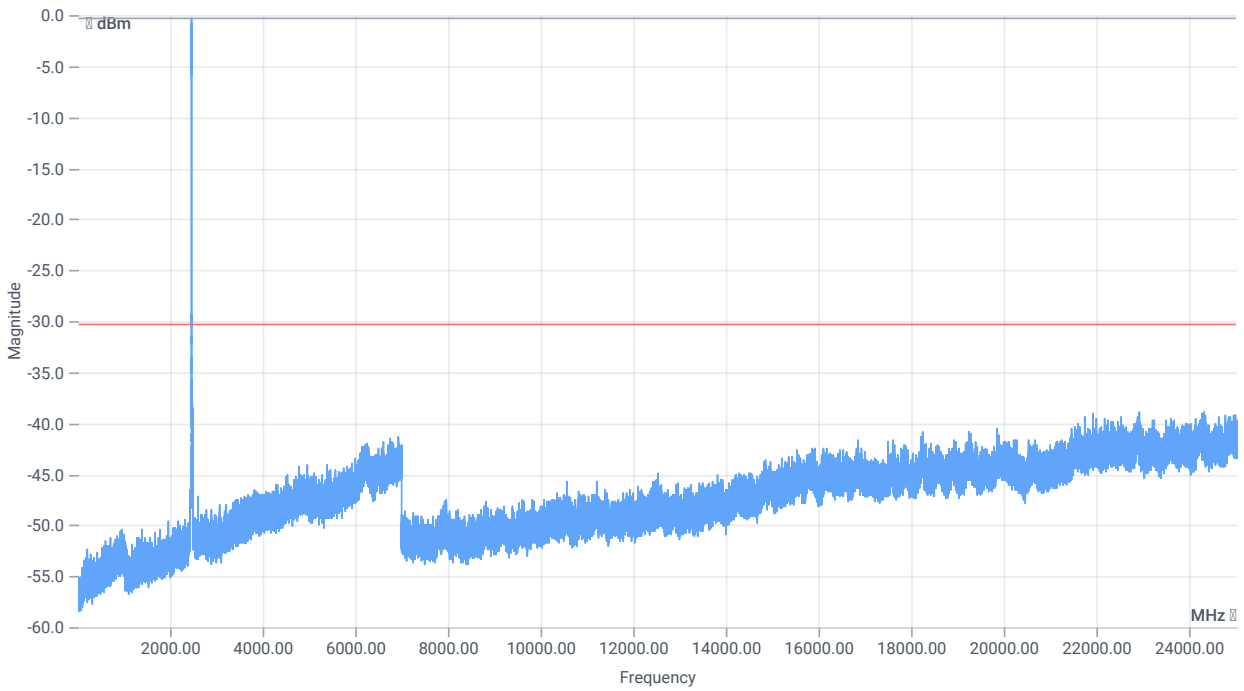
Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2462 MHz

RESULT: Reference Power cond.

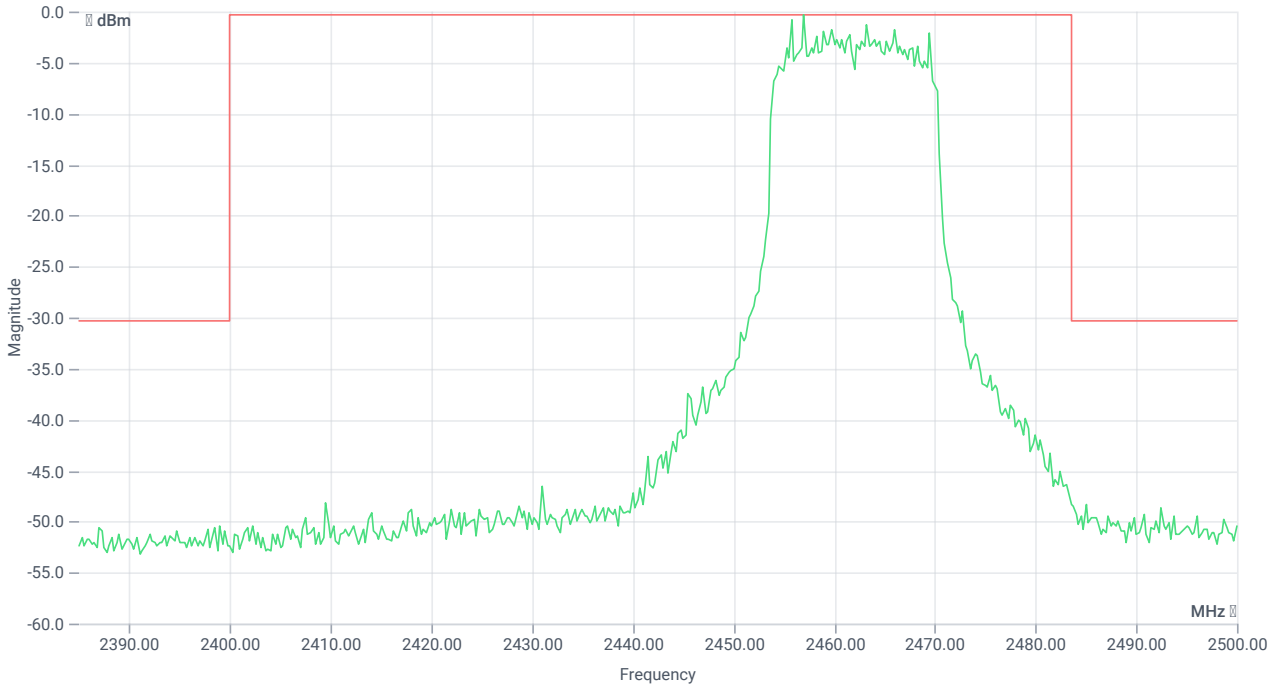
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 9.30 | dBm | INFO |
| Ref. Frequency | -- | -- | 2464.600 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 9.30 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 2001 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2457.00 MHz | -- | -- | -0.34 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 22938.25 MHz | 0 | -- | 8.53 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 30dBc ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 17:10:28 |
| Ambit temp [°C] humidity [rel%] | 23.8 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable |
| Description | FCC 15.247 TX Emissions Conducted 30dBc DTS DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

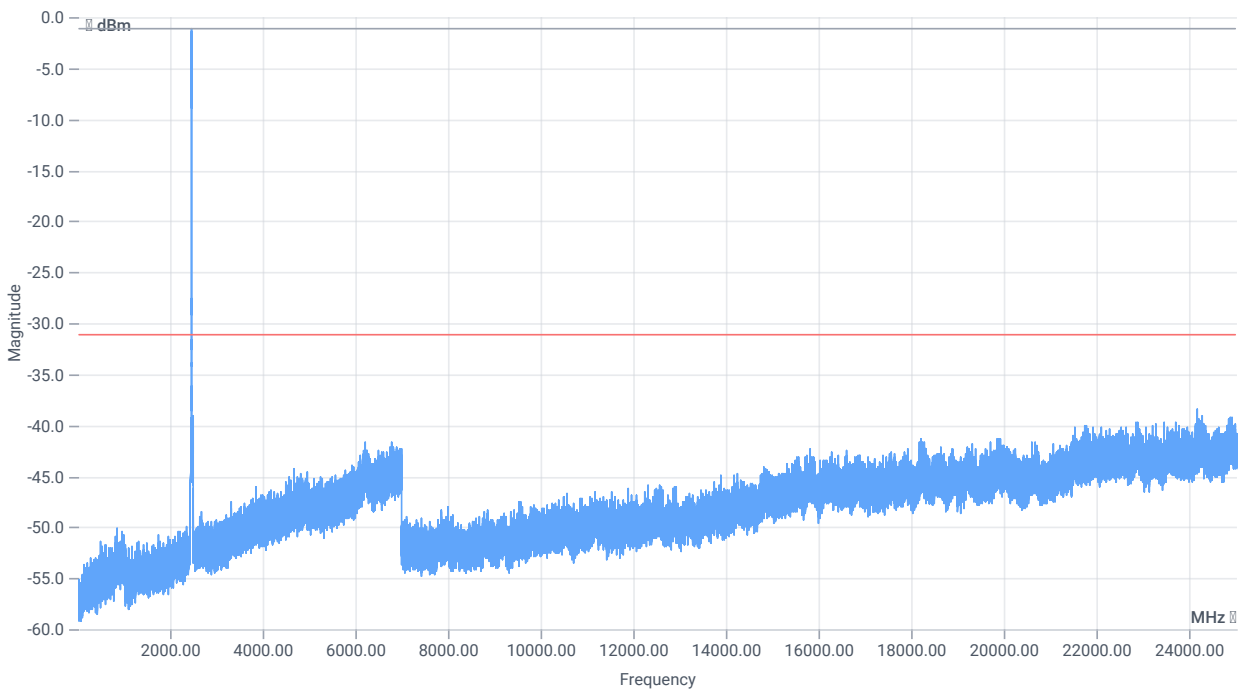
Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2462 MHz

RESULT: Reference Power cond.

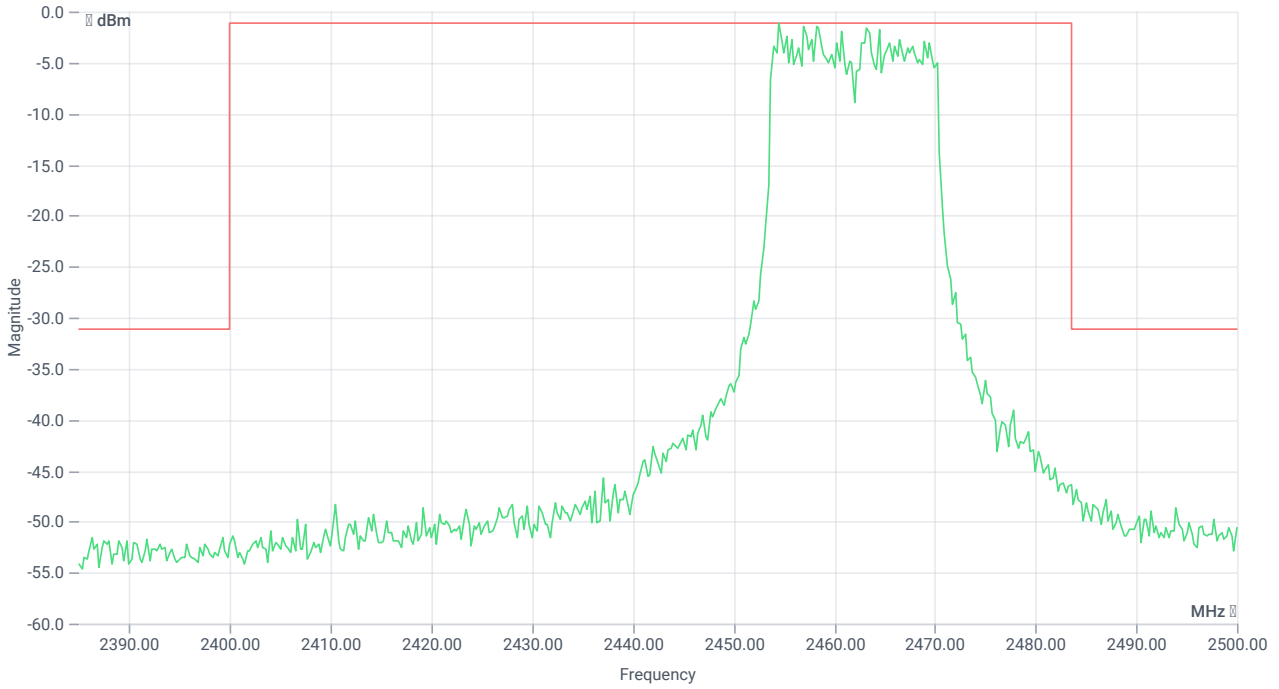
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.56 | dBm | INFO |
| Ref. Frequency | -- | -- | 2456.610 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 8.56 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 10 2001 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2454.50 MHz | -- | -- | -1.18 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 24185 MHz | 0 | -- | 7.25 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 30dBc ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 17:04:37 |
| Ambit temp [°C] humidity [rel%] | 24.0 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable |
| Description | FCC 15.247 TX Emissions Conducted 30dBc DTS DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | True Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

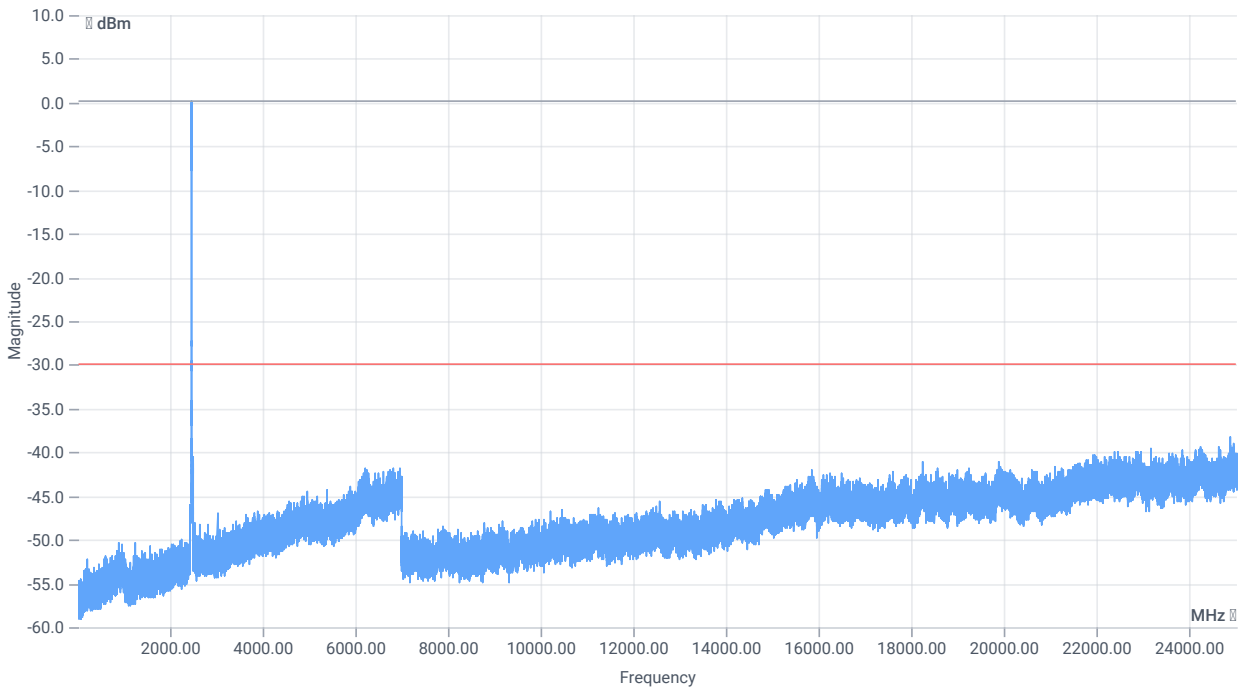
Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2462 MHz

RESULT: Reference Power cond.

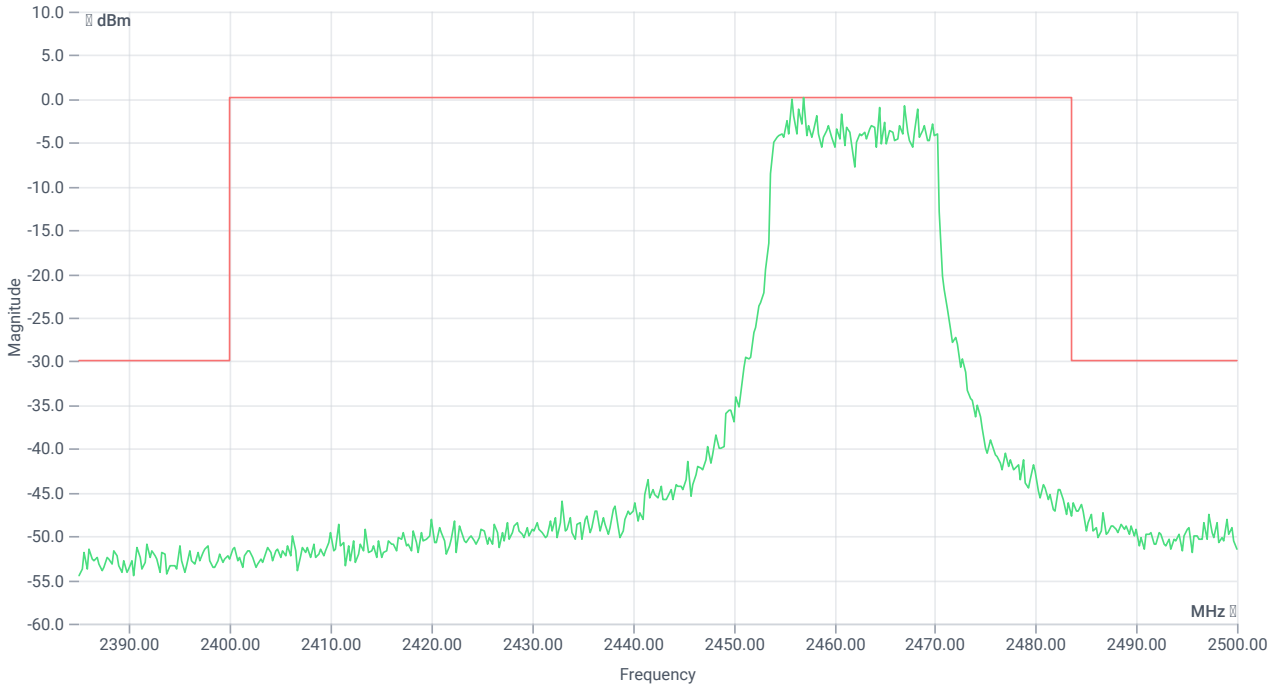
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.68 | dBm | INFO |
| Ref. Frequency | -- | -- | 2456.410 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 8.68 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 10 2001 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2457.00 MHz | -- | -- | 0.11 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 24879.75 MHz | 0 | -- | 8.32 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 30dBc ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 16:55:18 |
| Ambit temp [°C] humidity [rel%] | 23.9 39 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable |
| Description | FCC 15.247 TX Emissions Conducted 30dBc DTS DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

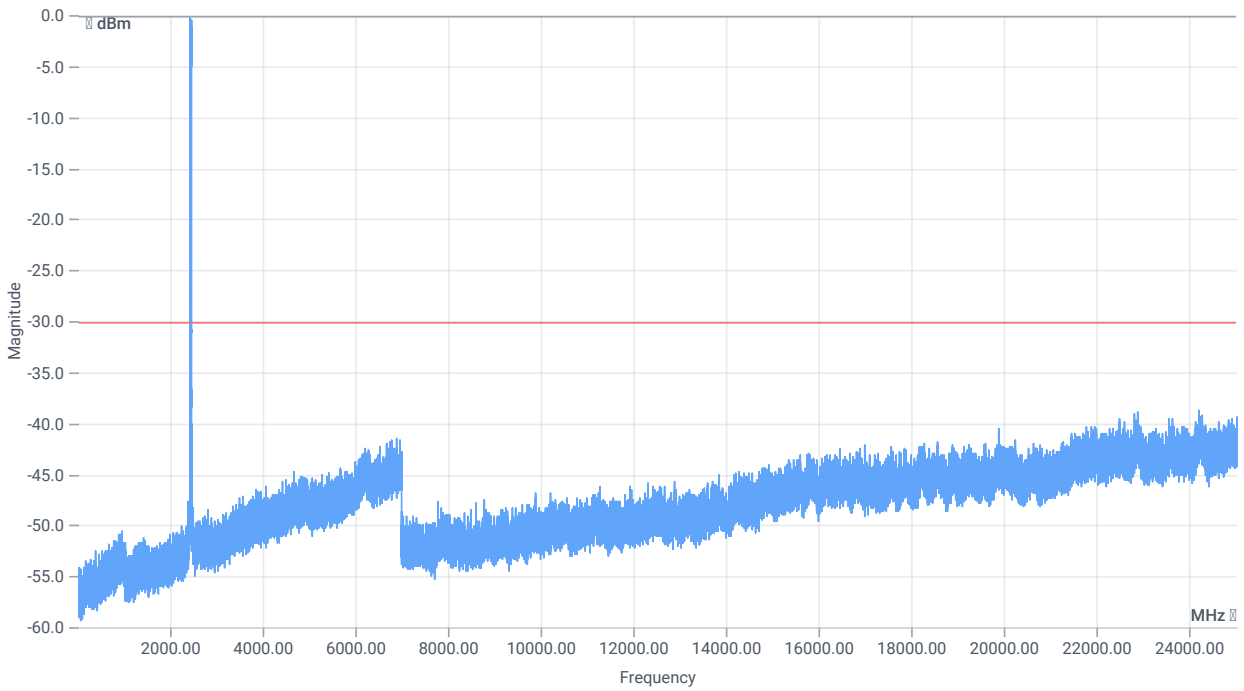
Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2437 MHz

RESULT: Reference Power cond.

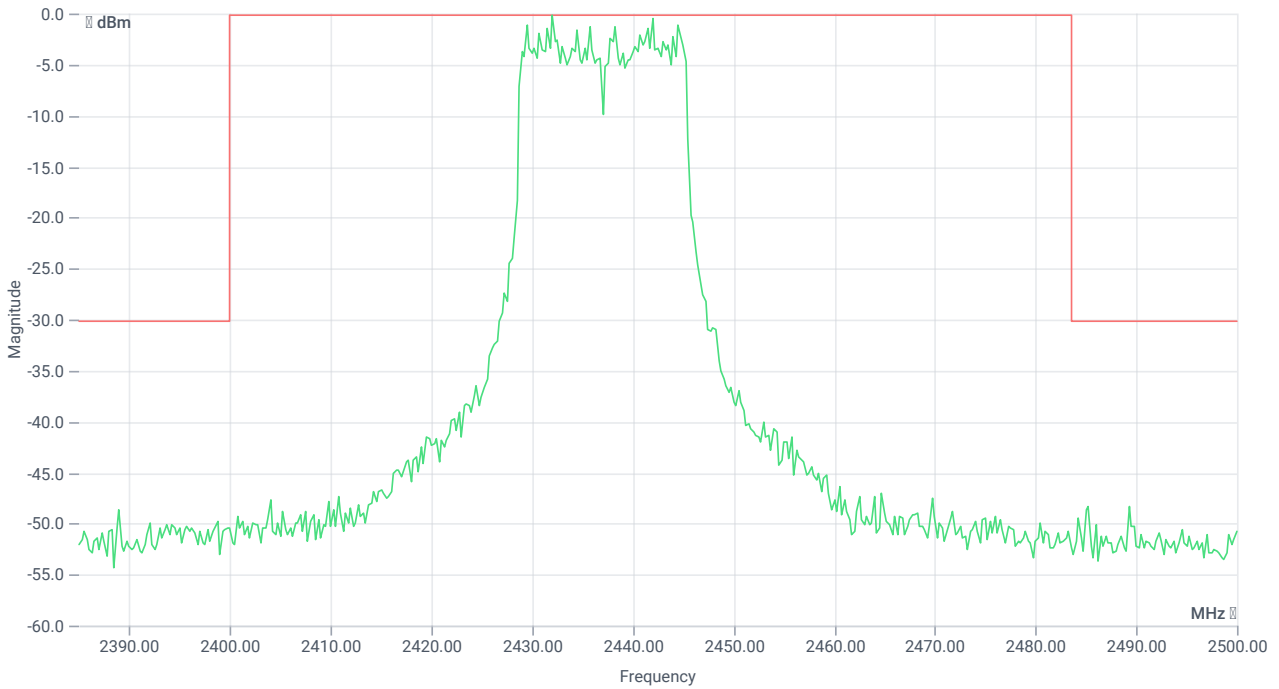
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.61 | dBm | INFO |
| Ref. Frequency | -- | -- | 2442.490 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 8.61 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 10 2001 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2432.00 MHz | -- | -- | -0.20 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 24206.75 MHz | 0 | -- | 8.55 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 30dBc ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 16:49:24 |
| Ambit temp [°C] humidity [rel%] | 24.2 39 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable |
| Description | FCC 15.247 TX Emissions Conducted 30dBc DTS DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2412 |
| Frequency mid to test | True Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

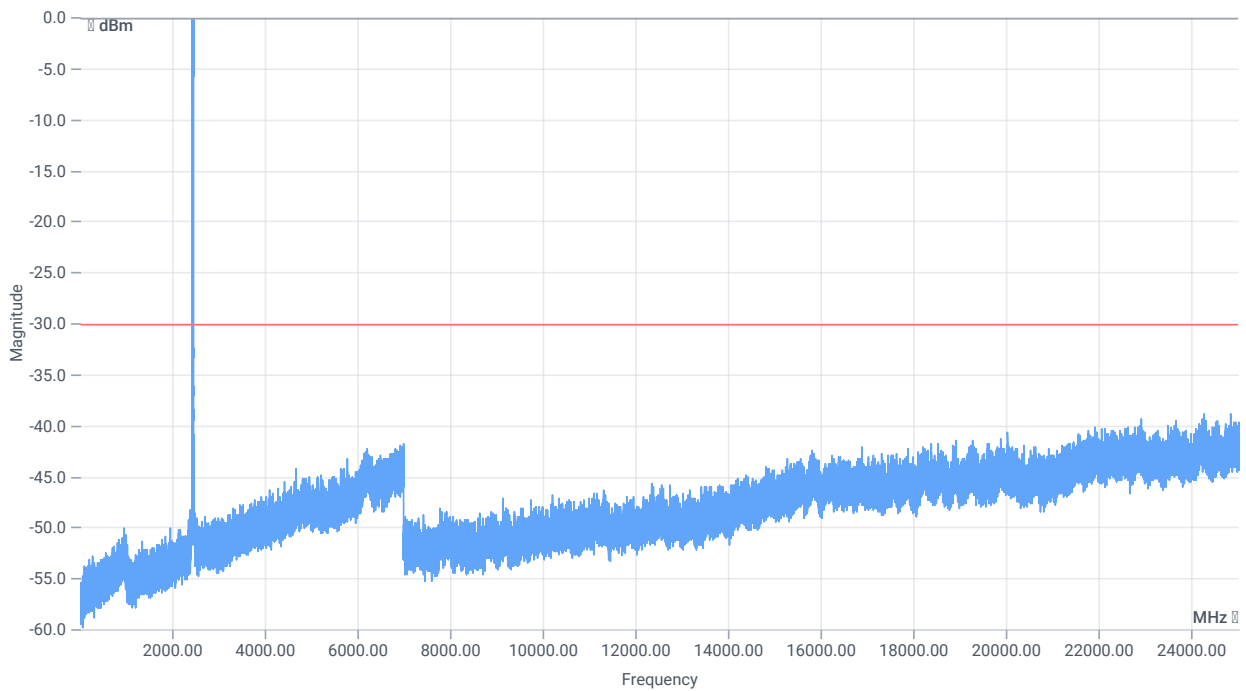
Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2437 MHz

RESULT: Reference Power cond.

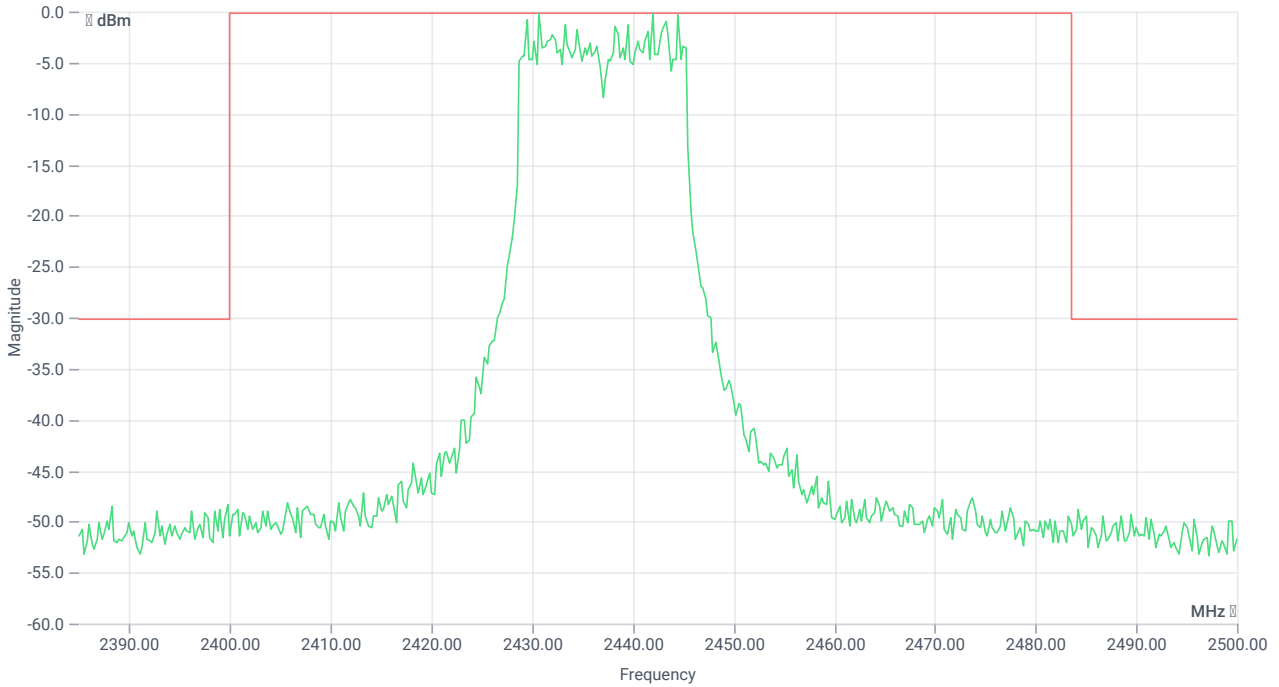
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.13 | dBm | INFO |
| Ref. Frequency | -- | -- | 2442.000 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 8.13 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 10 2001 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2442.00 MHz | -- | -- | -0.21 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 24856 MHz | 0 | -- | 8.71 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 30dBc ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 16:41:14 |
| Ambit temp [°C] humidity [rel%] | 24.0 39 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable |
| Description | FCC 15.247 TX Emissions Conducted 30dBc DTS DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| Antenna port used | 2 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

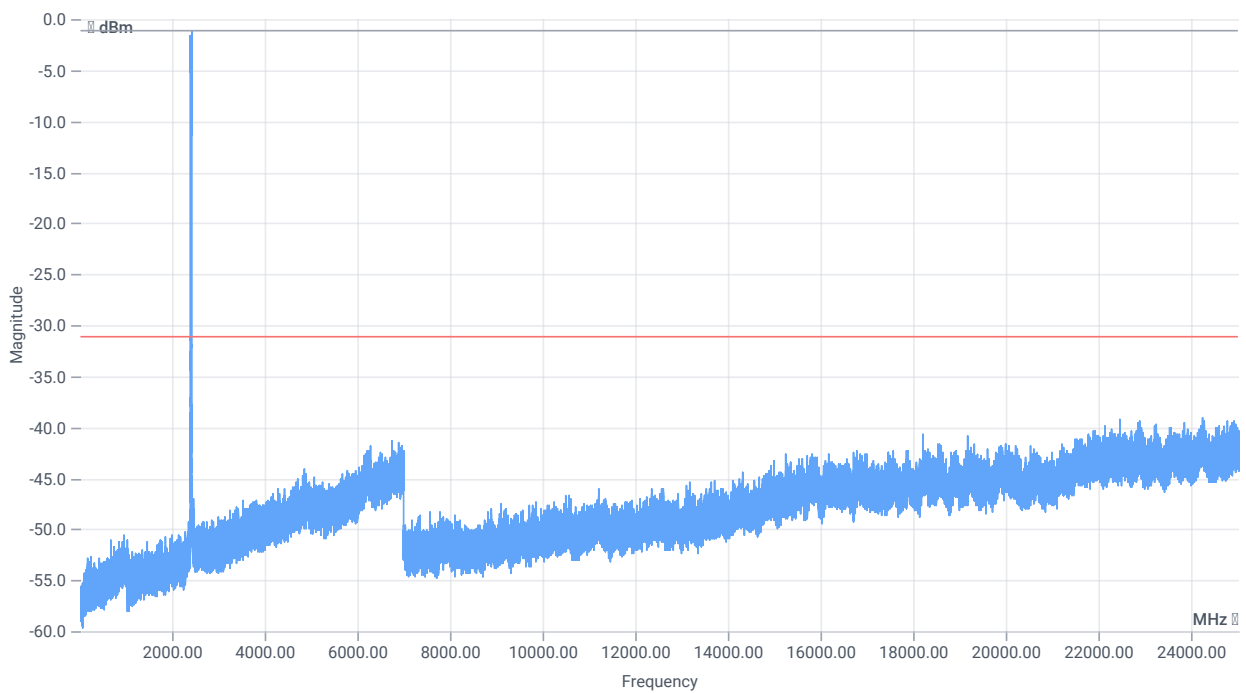
Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2412 MHz

RESULT: Reference Power cond.

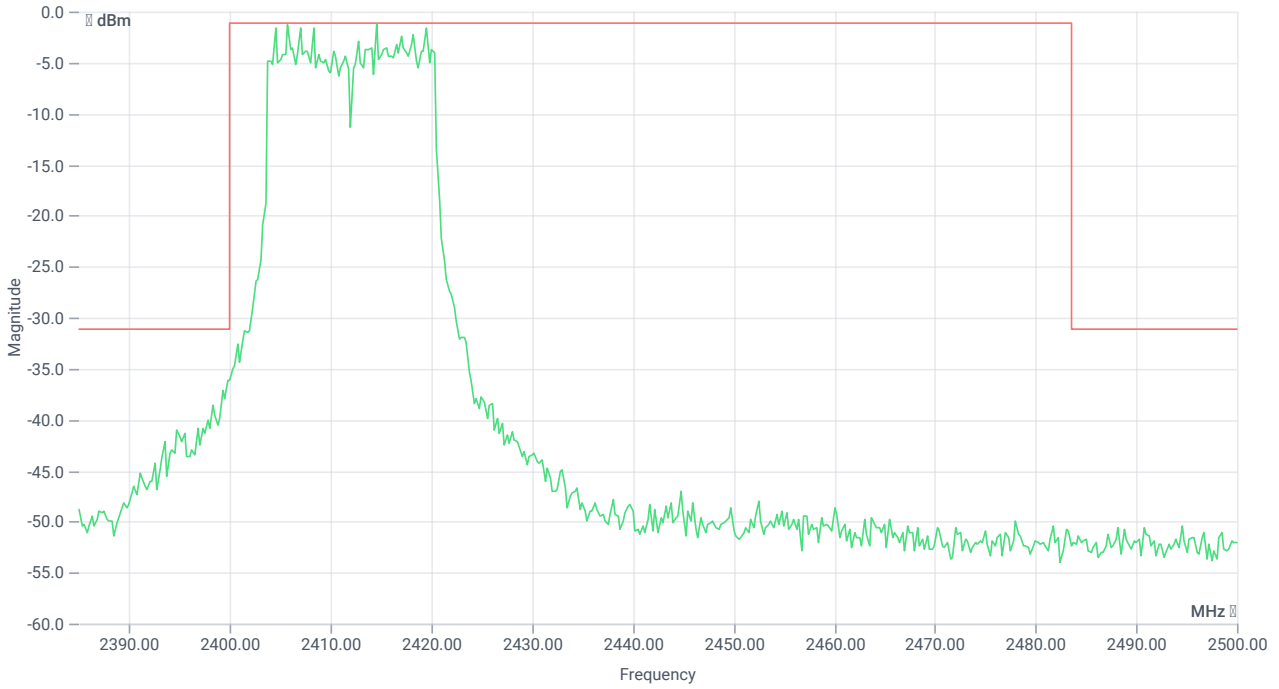
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 8.42 | dBm | INFO |
| Ref. Frequency | -- | -- | 2416.900 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 8.42 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 10 2001 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2414.50 MHz | -- | -- | -1.11 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 2399.75 MHz | 0 | -- | 5.07 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 30dBc ~ WLAN2G4 n-HT20 mode

References

| | |
|-----------------------------------|--|
| TC start | 22.02.2024 16:35:16 |
| Ambit temp [°C] humidity [rel%] | 24.0 40 |
| System version | 4.7.1.6 |
| Standard Version | FCC 15.247 NI |
| Method | IF DTS then 8.5 DTS emissions in non-restricted frequency bands: Subclause 11.11 of ANSI C63.10 is applicable |
| Description | FCC 15.247 TX Emissions Conducted 30dBc DTS DTS - WLAN2G4 n-HT20 mode |
| Information | |

EUT Common Settings WLAN2G4

| | |
|-------------------------|----|
| Number of Antenna Ports | 2 |
| User Interaction | No |

Test Parameter

| | |
|--|--|
| Technology to test | WLAN2G4 n-HT20 mode |
| Antenna port used | 1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2412 |
| Frequency mid to test | False Freq [MHz] 2437 |
| Frequency high to test | False Freq [MHz] 2462 |
| Auto control enabled power supply Climatic Box | No No |
| Additional path loss [dB] | 0.5 |
| Full path name type | EUT - SignalingUnit - SpectrumAnalyzer |

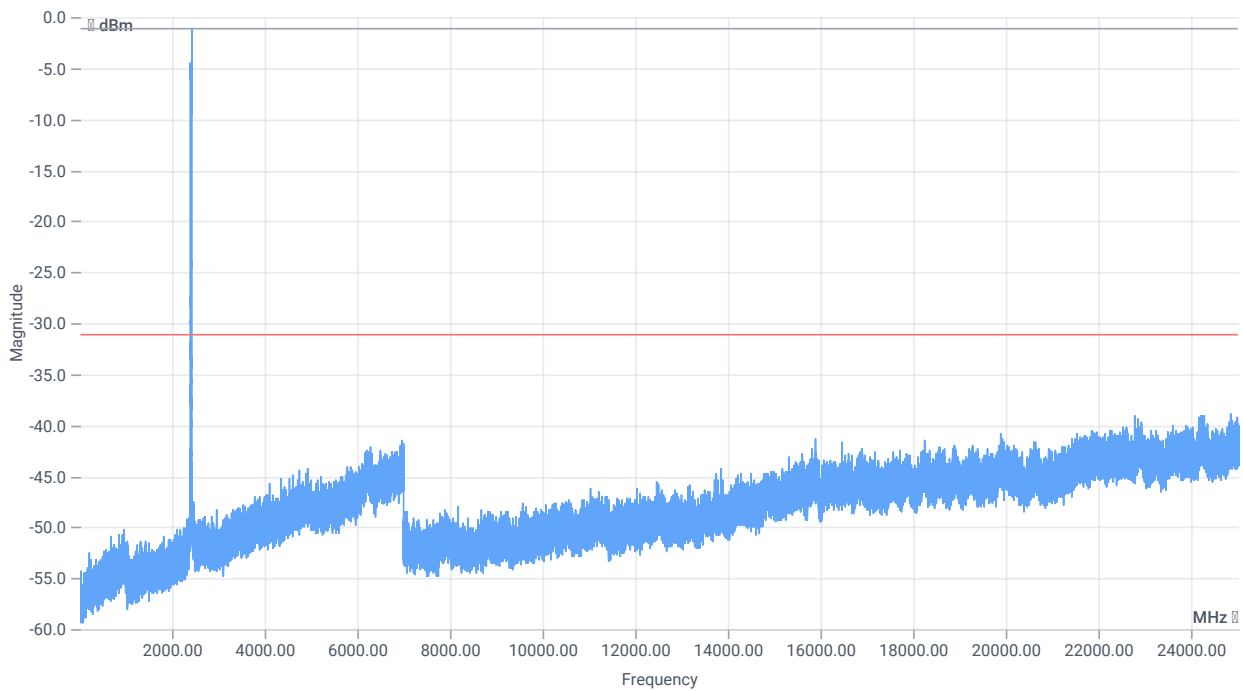
Equipment

| |
|---|
| Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k50/166977,4.0.140 |
| Switch matrix,CTCadvanced,SPM-4 NI DAQ,28016133,NI |

Test at TX 2412 MHz

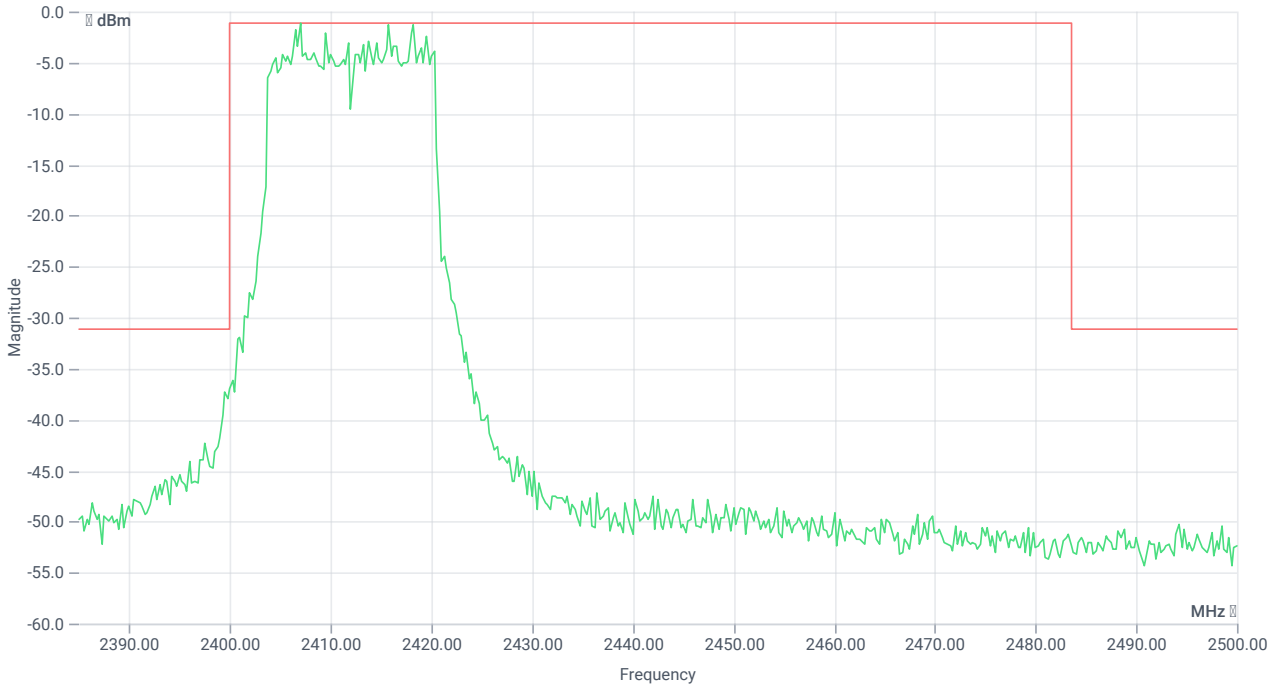
RESULT: Reference Power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. Power 1MHz/1MHz cond. | -- | -- | 7.36 | dBm | INFO |
| Ref. Frequency | -- | -- | 2417.290 | MHz | INFO |



READ SA SETTINGS:

| | |
|--|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.36 0 25 |
| Start [MHz] Stop [MHz] | 24530.000 25030.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 10 2001 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2407.00 MHz | -- | -- | -1.10 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 30 MHz | 0 | -- | -144.05 | dB | INFO |

Verdict

PASS

- END OF DOCUMENT -