

Conducted test results

No.1-2721-21-07-04_TR1-A201-R1

May 08, 2024

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

This document is electronically signed and valid without handwritten signature.
Public keys for verification of the electronic signatures can be requested at the testing laboratory.

p.o.

Authorized

Joerg Warken

Lab Manager
Radio Labs

Table of Content

| | |
|----------------------------------------------------------------------------------|----|
| FCC 15.247 # Maximum peak conducted output power FHSS ~ BT Classic Basic rate | 3 |
| FCC 15.247 # Maximum peak conducted output power FHSS ~ BT Classic EDR Pi/4DQPSK | 9 |
| FCC 15.247 # Maximum peak conducted output power FHSS ~ BT Classic EDR 8DPSK | 15 |
| FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ BT Classic Basic rate | 21 |
| FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ BT Classic EDR Pi/4DQPSK | 32 |
| FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ BT Classic EDR 8DPSK | 43 |
| FCC 15.247 # Carrier frequency separation FHSS ~ BT Classic Basic rate | 54 |
| FCC 15.247 # Number of hopping channels FHSS ~ BT Classic Basic rate | 58 |
| FCC 15.247 # TX Emissions on band edge FCC ~ BT Classic Basic rate | 65 |
| FCC 15.247 # TX Emissions on band edge FCC ~ BT Classic EDR Pi/4DQPSK | 69 |
| FCC 15.247 # TX Emissions on band edge FCC ~ BT Classic EDR 8DPSK | 73 |
| FCC 15.247 # TX spurious conducted 20dBc ~ BT Classic Basic rate | 77 |
| FCC 15.247 # TX spurious conducted 20dBc ~ BT Classic EDR Pi/4DQPSK | 85 |
| FCC 15.247 # TX spurious conducted 20dBc ~ BT Classic EDR 8DPSK | 93 |

FCC 15.247 # Maximum peak conducted output power FHSS ~ BT Classic Basic rate

References

| | |
|-----------------------------------|-----------------------------------------------------------------------------|
| TC start | 08.05.2024 08:07:04 |
| Ambit temp [°C] humidity [rel%] | 27.7 36 |
| System version | 5.0.5.0 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Maximum Peak Output Power Conducted FHSS - BT Classic Basic Rate |
| Information | |

EUT Common Settings BT Classic

| | |
|------------------------------------|-------------------------------------------------------|
| Intermodulation Value N | 3 |
| Image Freq. Low Mid High [MHz] | 0 0 0 |
| Power Class | 1 |
| Power Control | Enhanced |
| Longest Supported Packet Type | DH5 |
| RF Supported | Basic Rate True EDR Pi/4DQPSK True EDR 8DPSK True |
| Testmode | LOOPback |
| Perform Inquiry | Yes |
| EUT BT Address (if Inquiry No) | 0123456789AB |
| Signaling BT Address | BABEBEDADBAD |

Equipment

| |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,B001,1.0.0 |
| Power supply,ROHDE&SCHWARZ,HMP2020,120582,HW50010003/SW2.71 |

Test Parameter

| | |
|------------------------|------------------------|
| Technology to test | BT Classic Basic rate |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2441 |
| Frequency high to test | True Freq [MHz] 2480 |

Test Parameter

| | |
|--------------------------------------------------|------------------------------------------|
| Auto control enabled power supply Climatic Box | Yes No |
| Additional path loss [dB] | 0 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.MPSIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

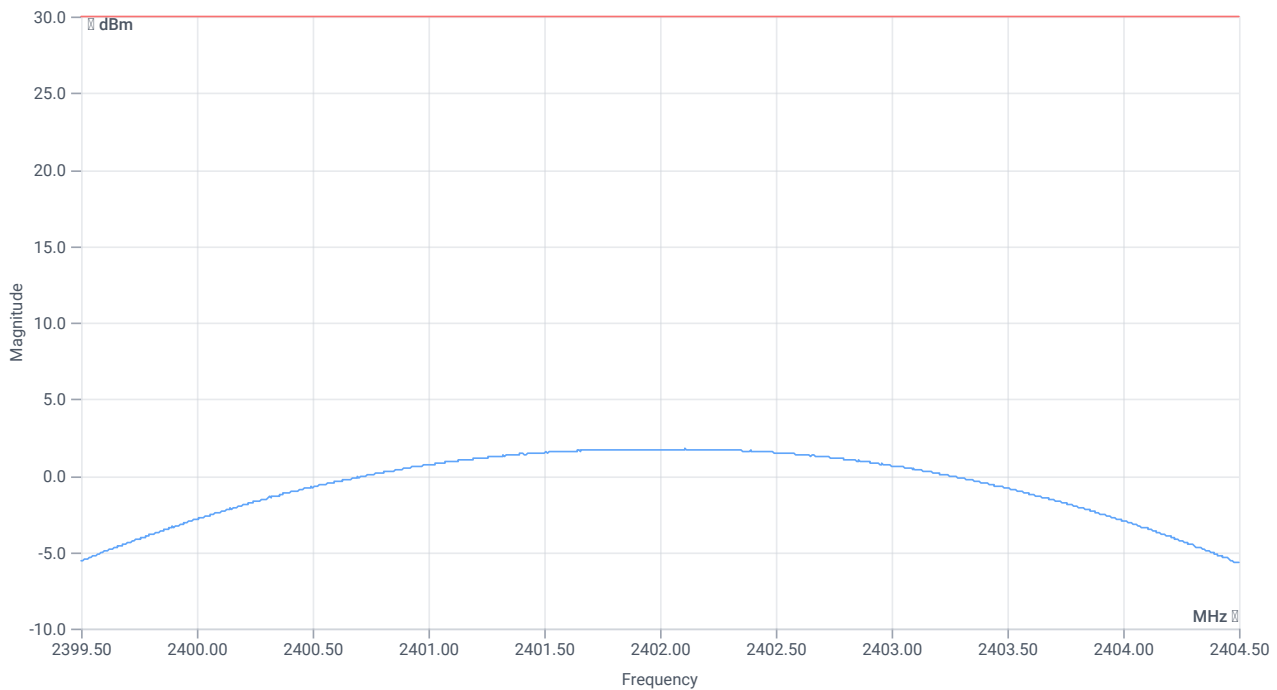
Test at TX 2402 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 1.55 | dBm | INFO |
| Ref. frequency | -- | -- | 2401.900 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 11.55 9.08 20 |
| Start [MHz] Stop [MHz] | 2399.500 2404.500 |
| RBW [MHz] VBW [MHz] | 3.000000 10.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 1000 10 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------|-------------|-------------|----------|------|---------|
| Peak power | -- | 30.00 | 1.74 | dBm | PASS |
| Peak power | -- | 1000 | 1.492794 | mW | PASS |
| Frequency at peak | -- | -- | 2402.11 | MHz | INFO |

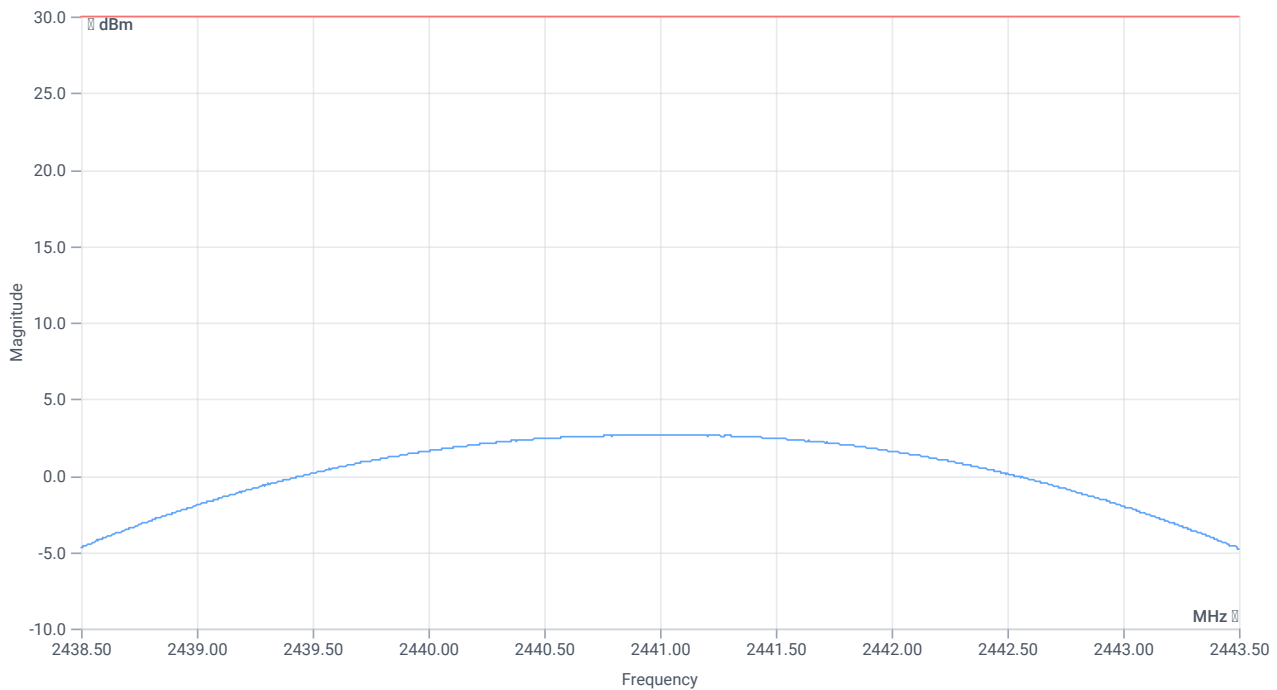
Test at TX 2441 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 2.38 | dBm | INFO |
| Ref. frequency | -- | -- | 2440.900 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.38 9.13 20 |
| Start [MHz] Stop [MHz] | 2438.500 2443.500 |
| RBW [MHz] VBW [MHz] | 3.000000 10.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 1000 10 1001 SWE |



Peak output power

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------|-------------|-------------|----------|------|---------|
| Peak power | -- | 30.00 | 2.66 | dBm | PASS |
| Peak power | -- | 1000 | 1.845015 | mW | PASS |
| Frequency at peak | -- | -- | 2441.065 | MHz | INFO |

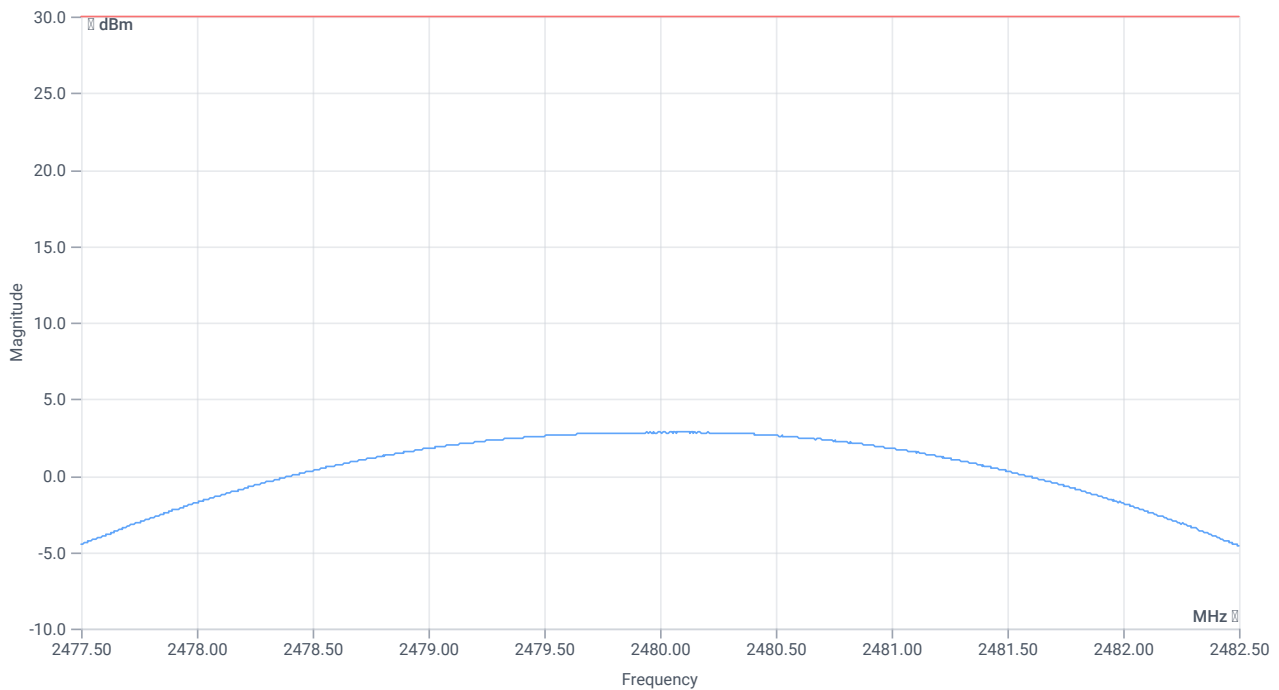
Test at TX 2480 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 2.54 | dBm | INFO |
| Ref. frequency | -- | -- | 2480.100 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.54 9.17 20 |
| Start [MHz] Stop [MHz] | 2477.500 2482.500 |
| RBW [MHz] VBW [MHz] | 3.000000 10.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 1000 10 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------|-------------|-------------|----------|------|---------|
| Peak power | -- | 30.00 | 2.83 | dBm | PASS |
| Peak power | -- | 1000 | 1.918669 | mW | PASS |
| Frequency at peak | -- | -- | 2480.085 | MHz | INFO |

Verdict

PASS

FCC 15.247 # Maximum peak conducted output power FHSS ~ BT Classic EDR Pi/4DQPSK

References

| | |
|-----------------------------------|--------------------------------------------------------------------------------|
| TC start | 08.05.2024 08:54:09 |
| Ambit temp [°C] humidity [rel%] | 28.1 34 |
| System version | 5.0.5.0 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Maximum Peak Output Power Conducted FHSS - BT Classic EDR Pi/4DQPSK |
| Information | |

EUT Common Settings BT Classic

| | |
|------------------------------------|-------------------------------------------------------|
| Intermodulation Value N | 3 |
| Image Freq. Low Mid High [MHz] | 0 0 0 |
| Power Class | 1 |
| Power Control | Enhanced |
| Longest Supported Packet Type | DH5 |
| RF Supported | Basic Rate True EDR Pi/4DQPSK True EDR 8DPSK True |
| Testmode | LOOPback |
| Perform Inquiry | Yes |
| EUT BT Address (if Inquiry No) | 0123456789AB |
| Signaling BT Address | BABEBEDADBAD |

Equipment

| |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,B001,1.0.0 |
| Power supply,ROHDE&SCHWARZ,HMP2020,120582,HW50010003/SW2.71 |

Test Parameter

| | |
|------------------------|--------------------------|
| Technology to test | BT Classic EDR Pi/4DQPSK |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2441 |
| Frequency high to test | True Freq [MHz] 2480 |

Test Parameter

| | |
|--------------------------------------------------|-------------------------------------------|
| Auto control enabled power supply Climatic Box | Yes No |
| Additional path loss [dB] | 0 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

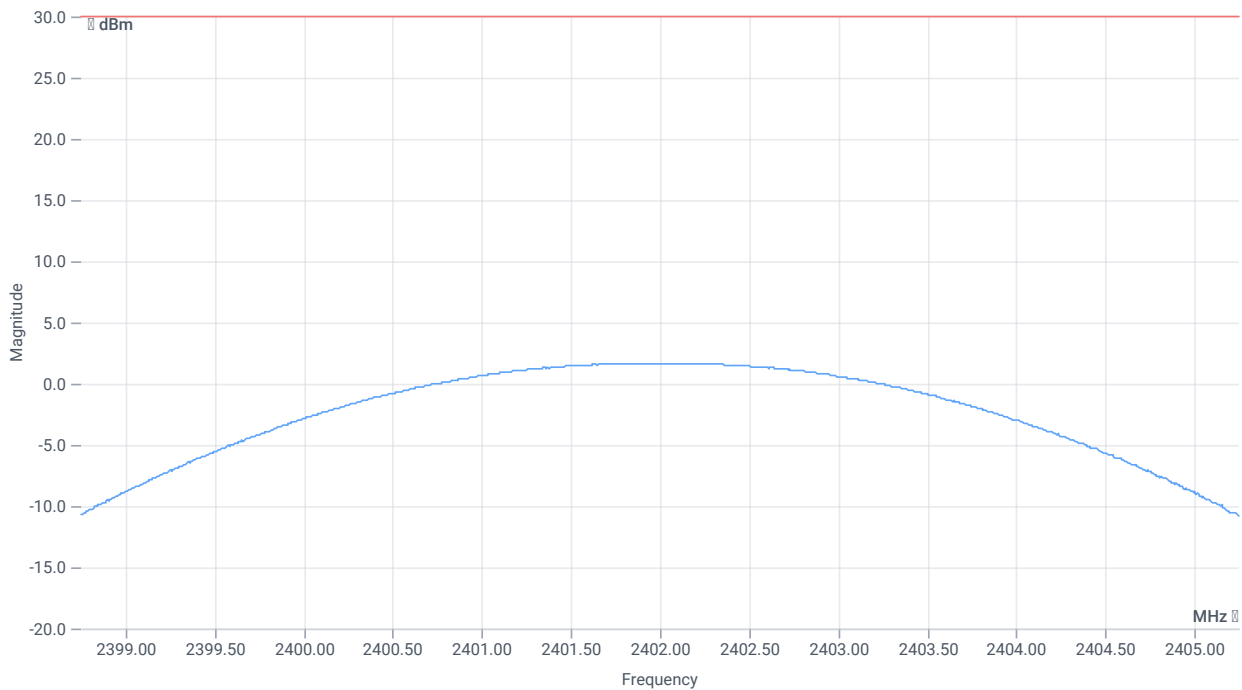
Test at TX 2402 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 0.75 | dBm | INFO |
| Ref. frequency | -- | -- | 2401.800 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 10.75 9.08 20 |
| Start [MHz] Stop [MHz] | 2398.750 2405.250 |
| RBW [MHz] VBW [MHz] | 3.000000 10.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 1000 10 1001 SWE |



Peak output power

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------|-------------|-------------|----------|------|---------|
| Peak power | -- | 30.00 | 1.64 | dBm | PASS |
| Peak power | -- | 1000 | 1.458814 | mW | PASS |
| Frequency at peak | -- | -- | 2402.104 | MHz | INFO |

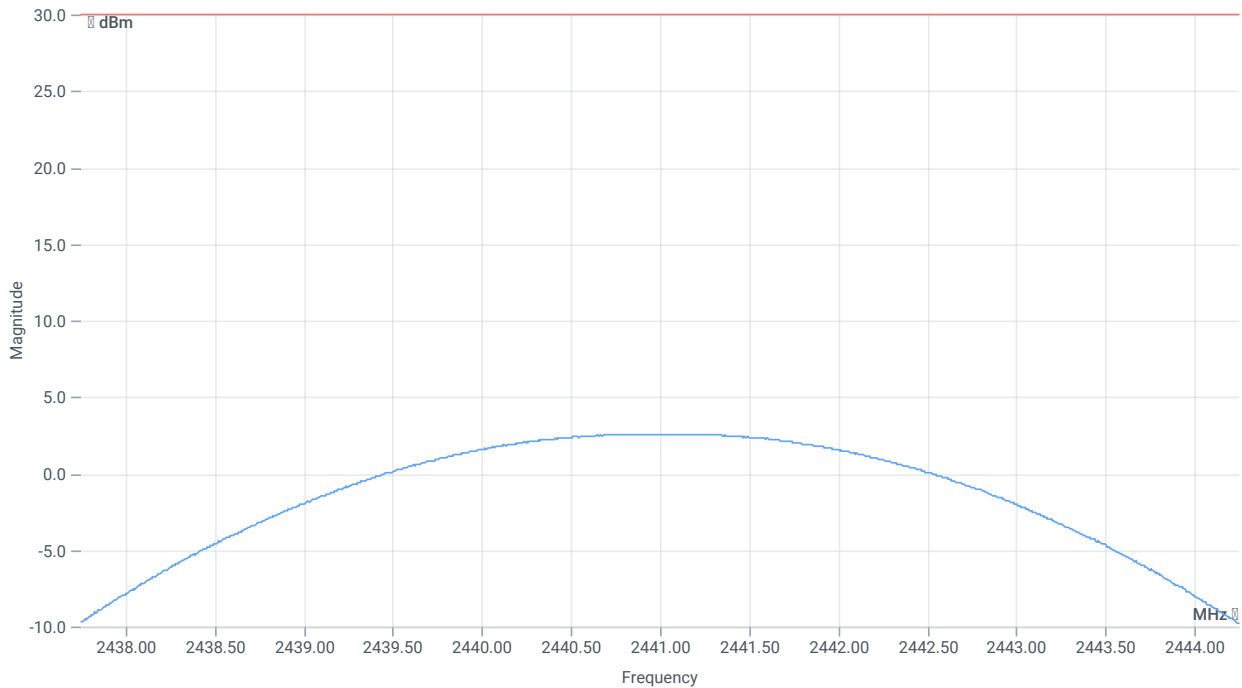
Test at TX 2441 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 1.77 | dBm | INFO |
| Ref. frequency | -- | -- | 2441.200 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 11.77 9.13 20 |
| Start [MHz] Stop [MHz] | 2437.750 2444.250 |
| RBW [MHz] VBW [MHz] | 3.000000 10.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 1000 10 1001 SWE |



Peak output power

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------|-------------|-------------|----------|------|---------|
| Peak power | -- | 30.00 | 2.56 | dBm | PASS |
| Peak power | -- | 1000 | 1.803018 | mW | PASS |
| Frequency at peak | -- | -- | 2441.143 | MHz | INFO |

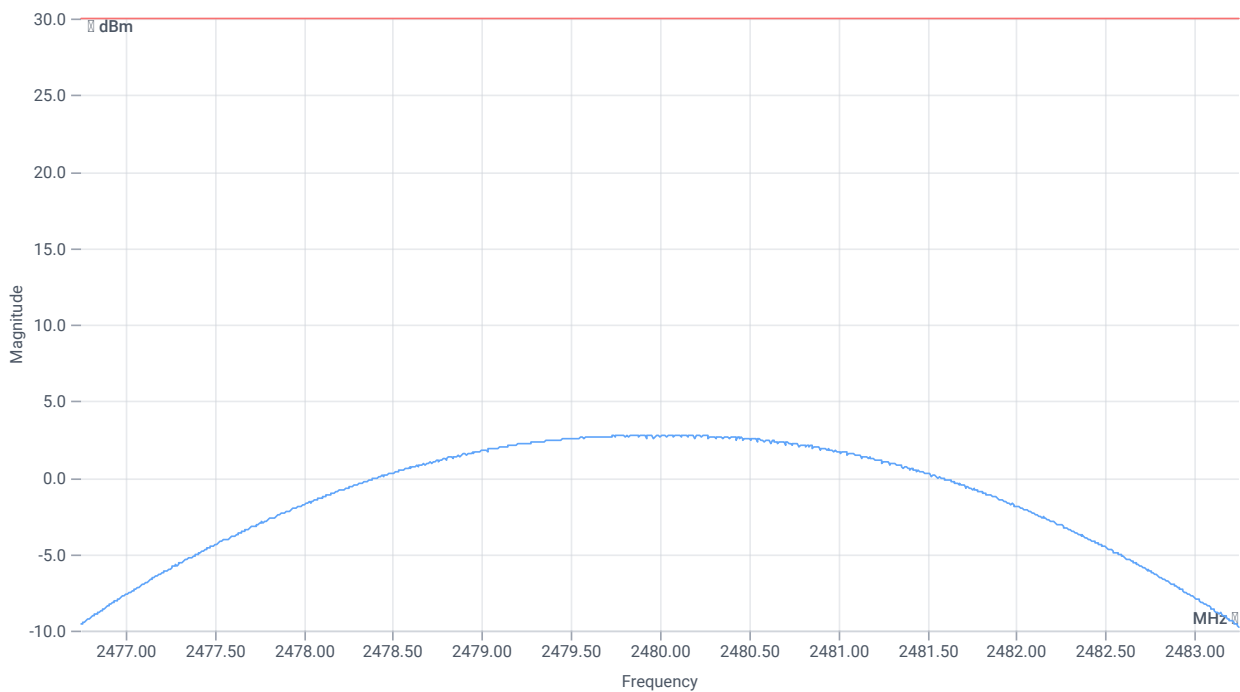
Test at TX 2480 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 2.10 | dBm | INFO |
| Ref. frequency | -- | -- | 2479.800 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 12.10 9.17 20 |
| Start [MHz] Stop [MHz] | 2476.750 2483.250 |
| RBW [MHz] VBW [MHz] | 3.000000 10.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 1000 10 1001 SWE |



Peak output power

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------|-------------|-------------|----------|------|---------|
| Peak power | -- | 30.00 | 2.75 | dBm | PASS |
| Peak power | -- | 1000 | 1.883649 | mW | PASS |
| Frequency at peak | -- | -- | 2480.162 | MHz | INFO |

Verdict

PASS

FCC 15.247 # Maximum peak conducted output power FHSS ~ BT Classic EDR 8DPSK

References

| | |
|-----------------------------------|----------------------------------------------------------------------------|
| TC start | 08.05.2024 09:38:13 |
| Ambit temp [°C] humidity [rel%] | 28.3 34 |
| System version | 5.0.5.0 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Maximum Peak Output Power Conducted FHSS - BT Classic EDR 8DPSK |
| Information | |

EUT Common Settings BT Classic

| | |
|------------------------------------|-------------------------------------------------------|
| Intermodulation Value N | 3 |
| Image Freq. Low Mid High [MHz] | 0 0 0 |
| Power Class | 1 |
| Power Control | Enhanced |
| Longest Supported Packet Type | DH5 |
| RF Supported | Basic Rate True EDR Pi/4DQPSK True EDR 8DPSK True |
| Testmode | LOOPback |
| Perform Inquiry | Yes |
| EUT BT Address (if Inquiry No) | 0123456789AB |
| Signaling BT Address | BABEBEDADBAD |

Equipment

| |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,B001,1.0.0 |
| Power supply,ROHDE&SCHWARZ,HMP2020,120582,HW50010003/SW2.71 |

Test Parameter

| | |
|------------------------|------------------------|
| Technology to test | BT Classic EDR 8DPSK |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2441 |
| Frequency high to test | True Freq [MHz] 2480 |

Test Parameter

| | |
|--------------------------------------------------|------------------------------------------|
| Auto control enabled power supply Climatic Box | Yes No |
| Additional path loss [dB] | 0 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.MPSIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

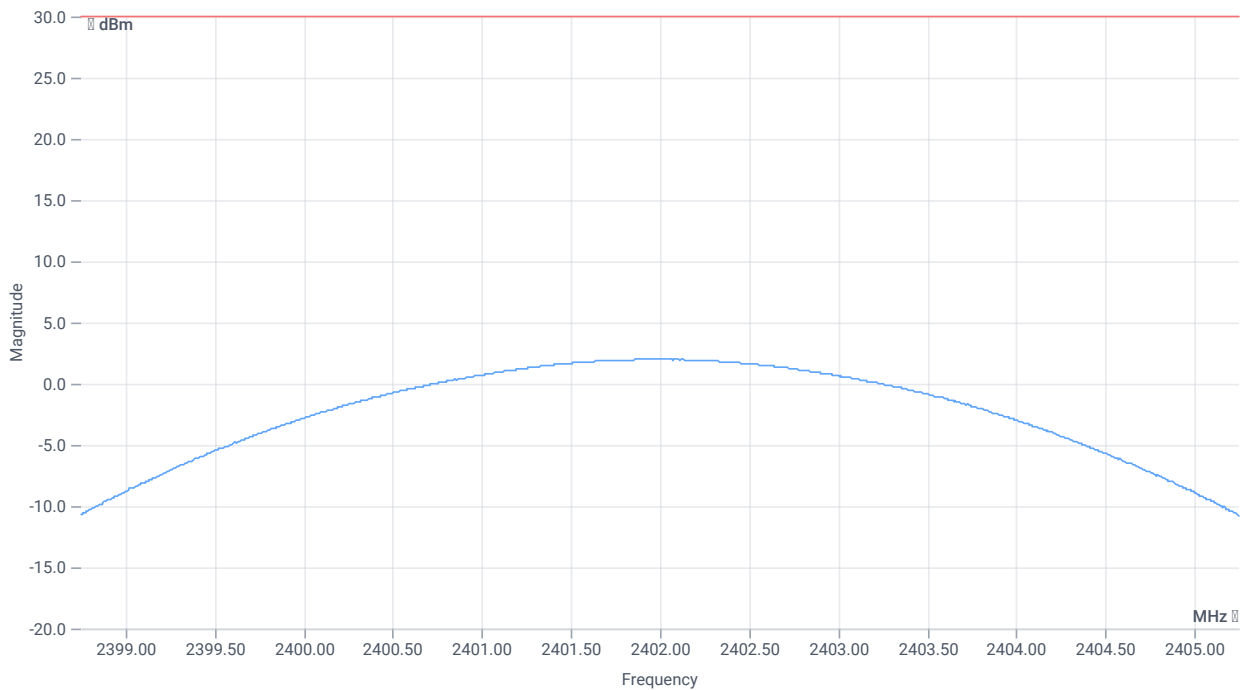
Test at TX 2402 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 1.00 | dBm | INFO |
| Ref. frequency | -- | -- | 2402.000 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 11.00 9.08 20 |
| Start [MHz] Stop [MHz] | 2398.750 2405.250 |
| RBW [MHz] VBW [MHz] | 3.000000 10.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 1000 10 1001 SWE |



Peak output power

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------|-------------|-------------|----------|------|---------|
| Peak power | -- | 30.00 | 2 | dBm | PASS |
| Peak power | -- | 1000 | 1.584893 | mW | PASS |
| Frequency at peak | -- | -- | 2401.942 | MHz | INFO |

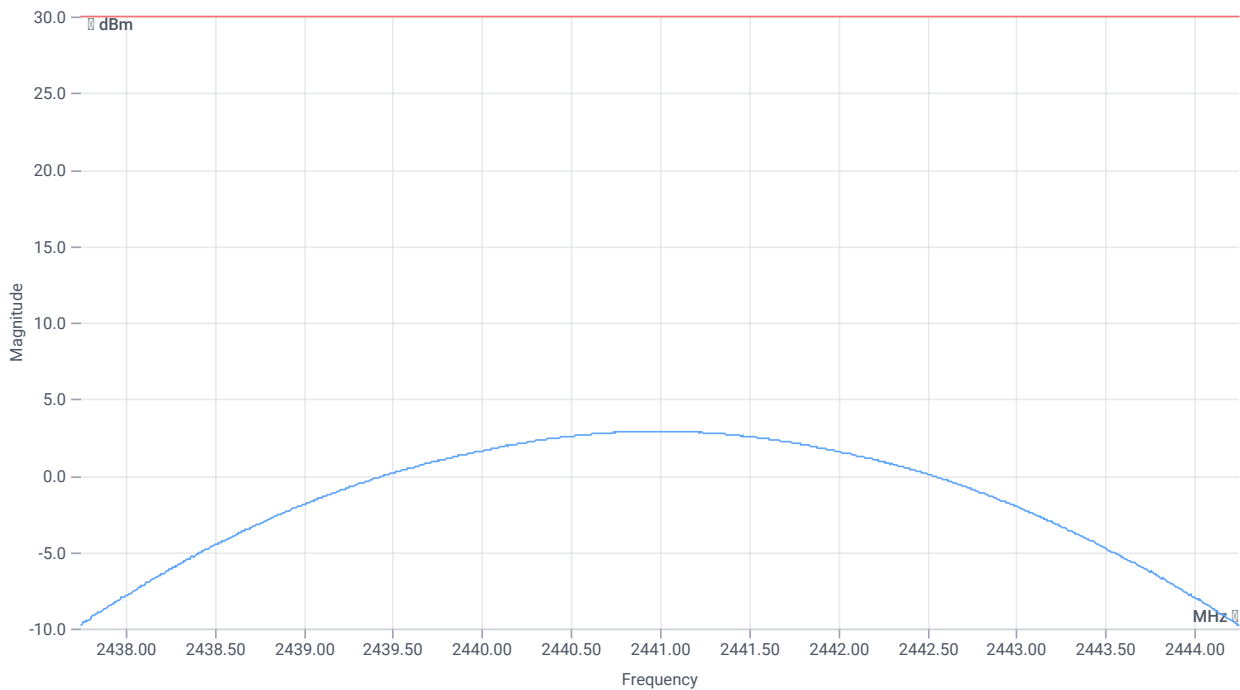
Test at TX 2441 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 1.78 | dBm | INFO |
| Ref. frequency | -- | -- | 2440.800 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 11.78 9.13 20 |
| Start [MHz] Stop [MHz] | 2437.750 2444.250 |
| RBW [MHz] VBW [MHz] | 3.000000 10.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 1000 10 1001 SWE |



Peak output power

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------|-------------|-------------|----------|------|---------|
| Peak power | -- | 30.00 | 2.9 | dBm | PASS |
| Peak power | -- | 1000 | 1.949845 | mW | PASS |
| Frequency at peak | -- | -- | 2440.994 | MHz | INFO |

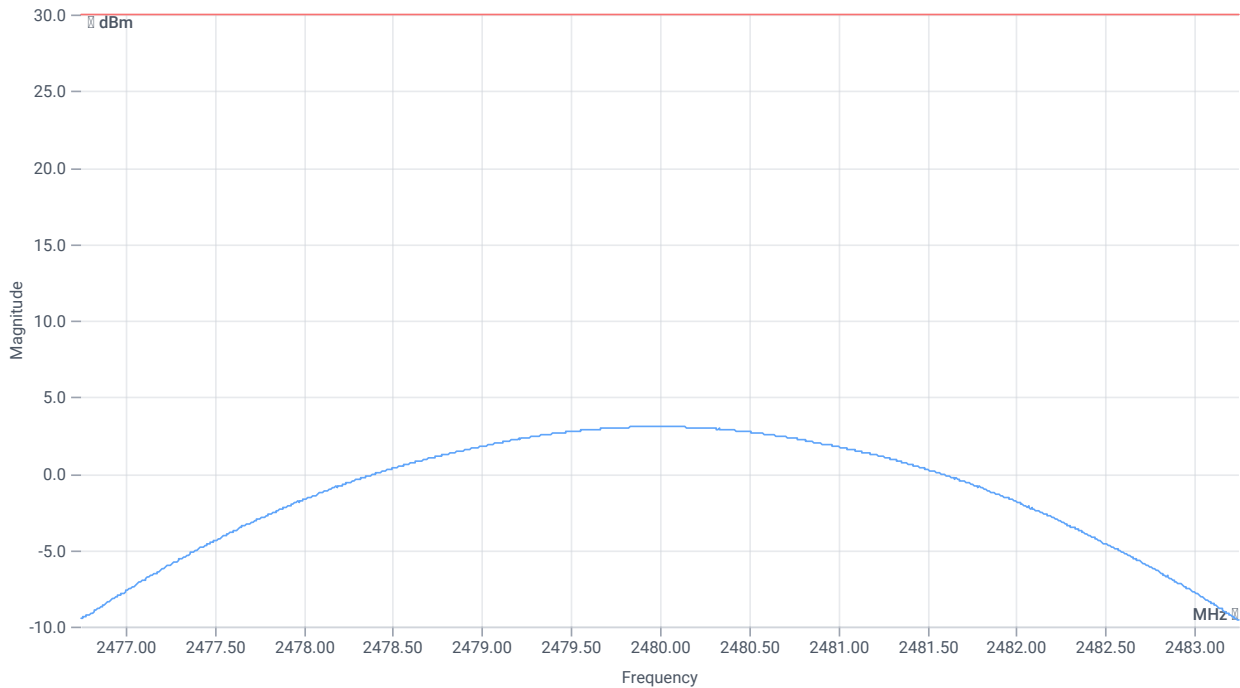
Test at TX 2480 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 1.94 | dBm | INFO |
| Ref. frequency | -- | -- | 2479.900 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 11.94 9.17 20 |
| Start [MHz] Stop [MHz] | 2476.750 2483.250 |
| RBW [MHz] VBW [MHz] | 3.000000 10.000000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 1000 10 1001 SWE |



Peak output power

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------|-------------|-------------|----------|------|---------|
| Peak power | -- | 30.00 | 3.07 | dBm | PASS |
| Peak power | -- | 1000 | 2.027683 | mW | PASS |
| Frequency at peak | -- | -- | 2480 | MHz | INFO |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ BT Classic Basic rate

References

| | |
|-----------------------------------|----------------------------------------------------------------|
| TC start | 08.05.2024 08:11:52 |
| Ambit temp [°C] humidity [rel%] | 27.8 36 |
| System version | 5.0.5.0 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT - 20dB FHSS - BT Classic Basic Rate |
| Information | |

EUT Common Settings BT Classic

| | |
|------------------------------------|-------------------------------------------------------|
| Intermodulation Value N | 3 |
| Image Freq. Low Mid High [MHz] | 0 0 0 |
| Power Class | 1 |
| Power Control | Enhanced |
| Longest Supported Packet Type | DH5 |
| RF Supported | Basic Rate True EDR Pi/4DQPSK True EDR 8DPSK True |
| Testmode | LOOPback |
| Perform Inquiry | Yes |
| EUT BT Address (if Inquiry No) | 0123456789AB |
| Signaling BT Address | BABEBEDADBAD |

Equipment

| |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,B001,1.0.0 |
| Power supply,ROHDE&SCHWARZ,HMP2020,120582,HW50010003/SW2.71 |

Test Parameter

| | |
|--------------------------------------------------|------------------------|
| Technology to test | BT Classic Basic rate |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2441 |
| Frequency high to test | True Freq [MHz] 2480 |
| Auto control enabled power supply Climatic Box | Yes No |

Test Parameter

| | |
|---------------------------|------------------------------------------|
| Additional path loss [dB] | 0 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.MPSIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

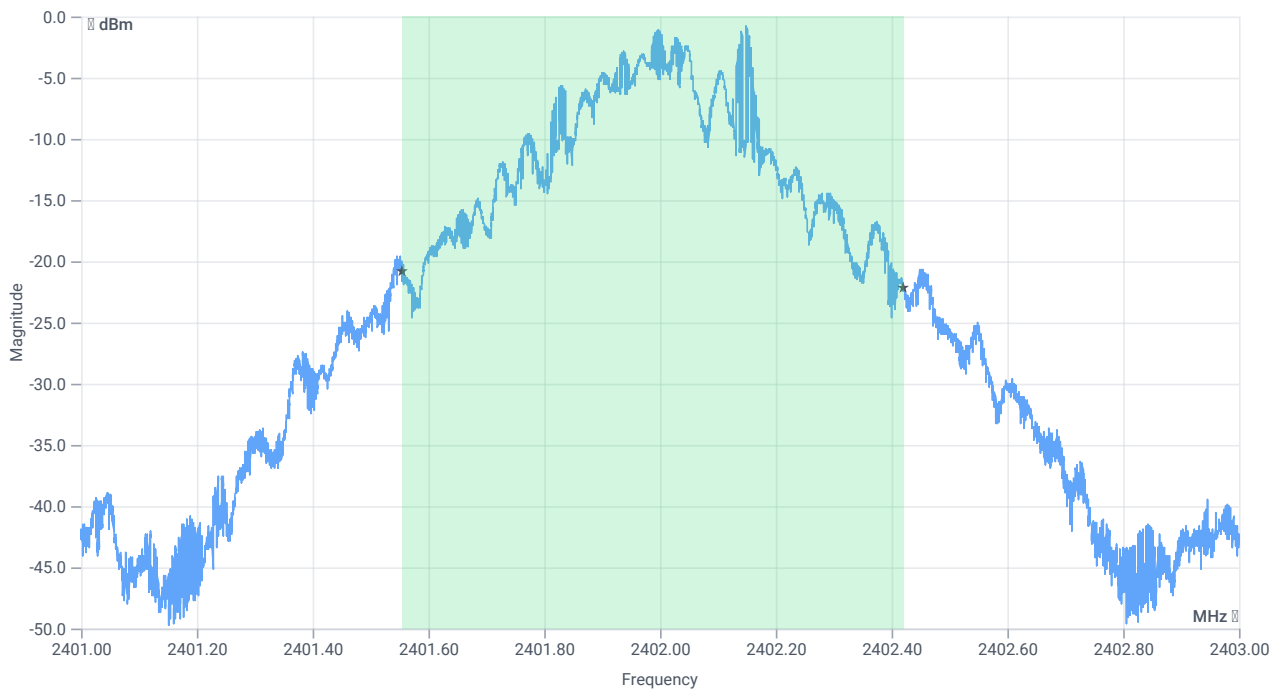
Test at TX 2402 MHz

RESULT: Reference power cond.

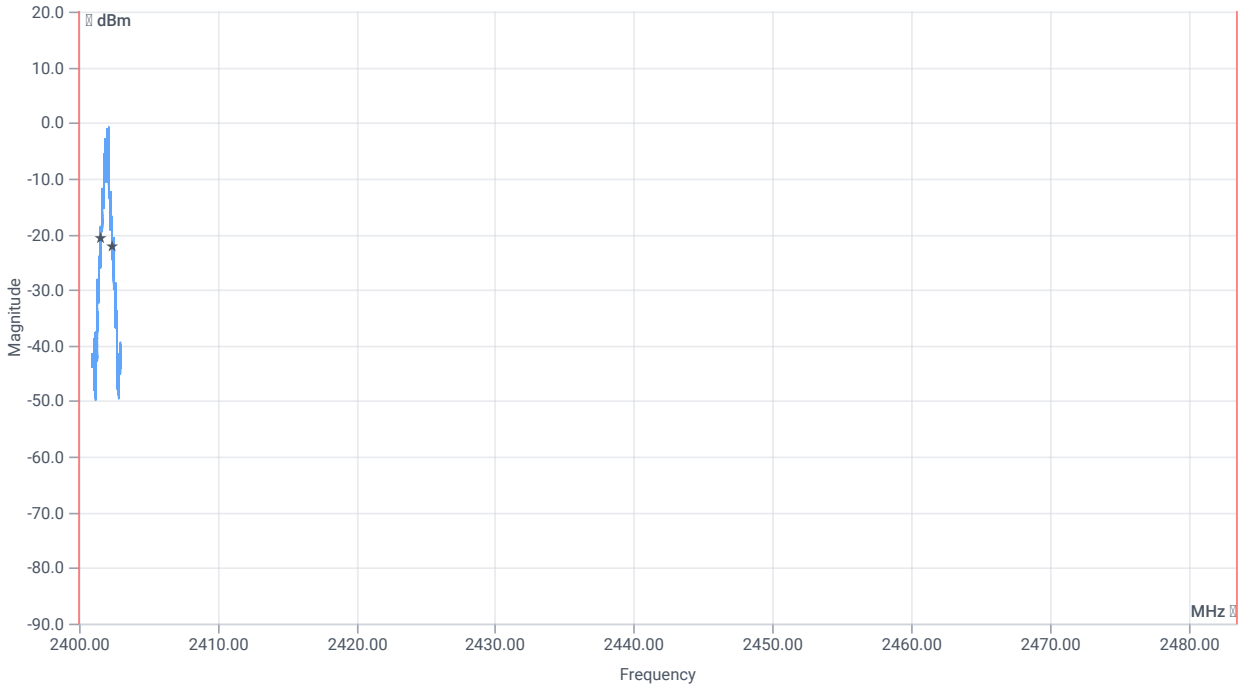
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 1.61 | dBm | INFO |
| Ref. frequency | -- | -- | 2402.100 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 6.61 9.08 15 |
| Start [MHz] Stop [MHz] | 2401.000 2403.000 |
| RBW [MHz] VBW [MHz] | 0.020000 0.100000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



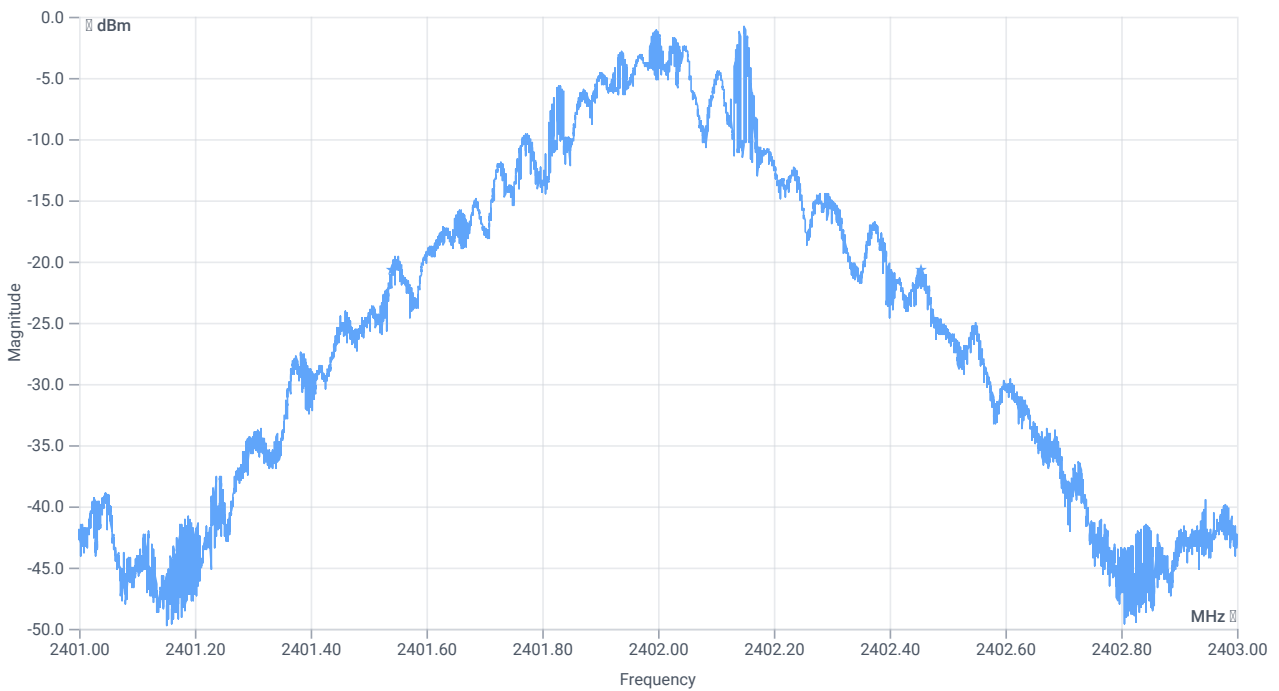
BW 99PCT



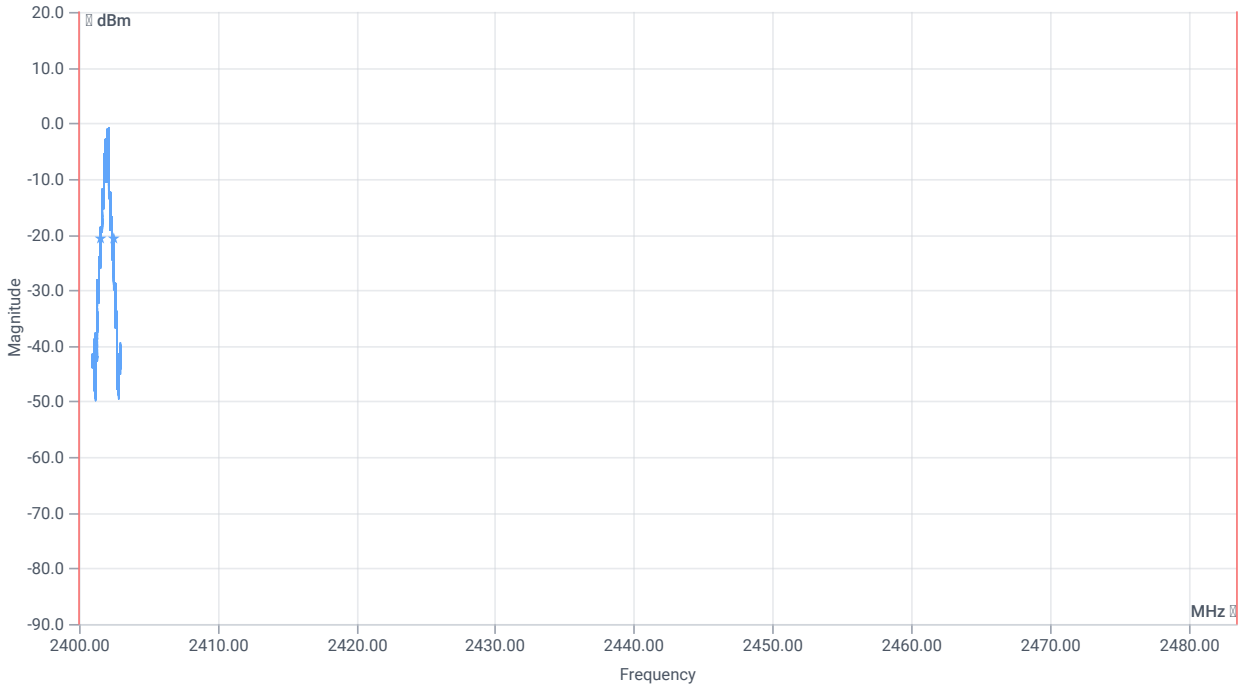
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 867.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2401.5546 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2402.4214 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 916 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2401.5394 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2402.4554 | MHz | PASS |

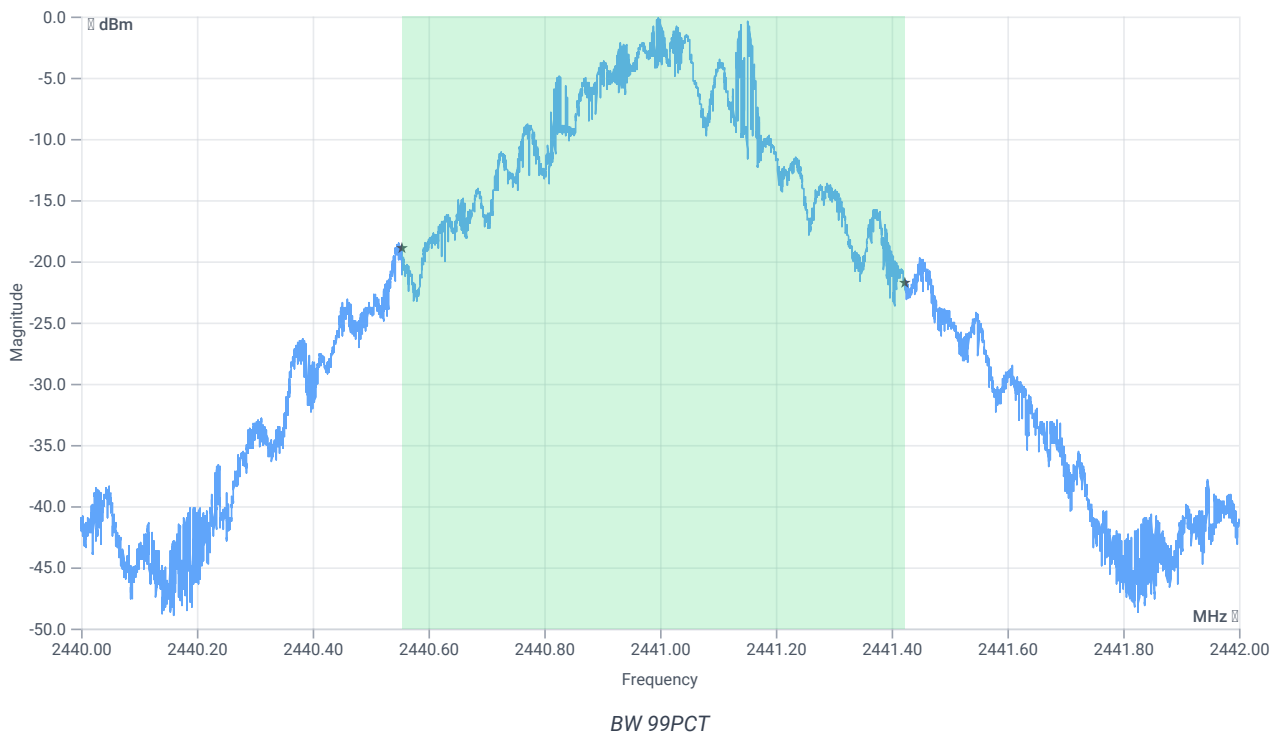
Test at TX 2441 MHz

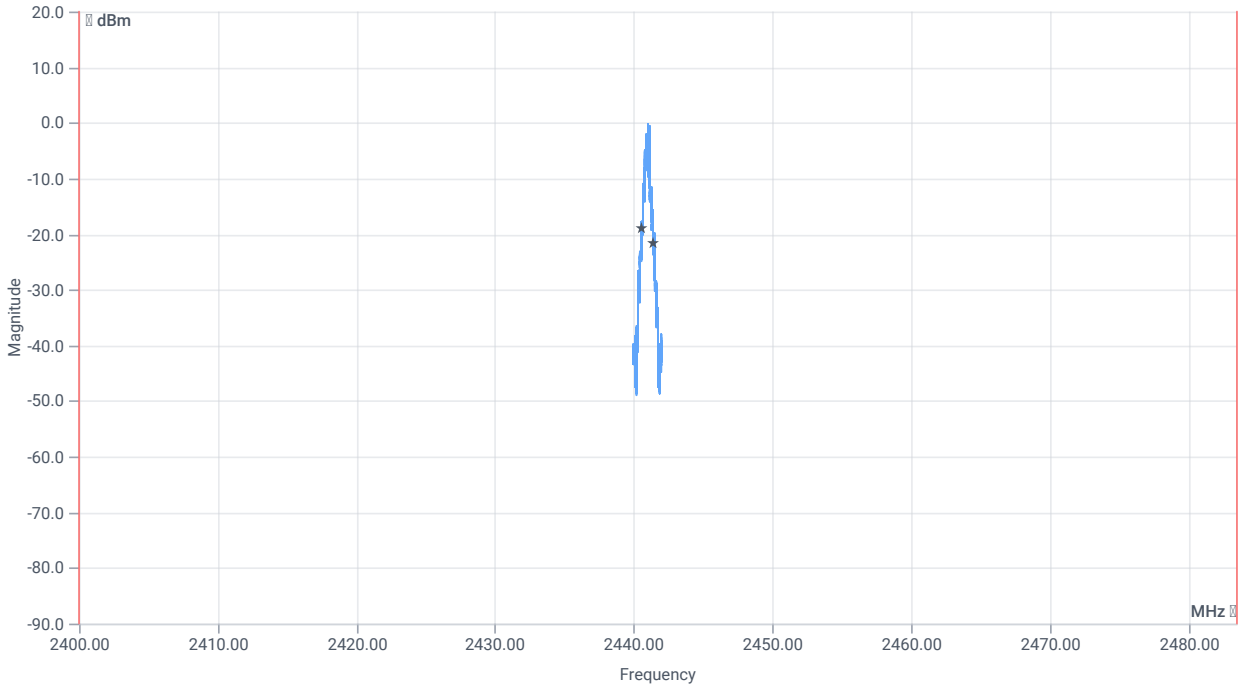
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 2.34 | dBm | INFO |
| Ref. frequency | -- | -- | 2440.900 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.34 9.13 15 |
| Start [MHz] Stop [MHz] | 2440.000 2442.000 |
| RBW [MHz] VBW [MHz] | 0.020000 0.100000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

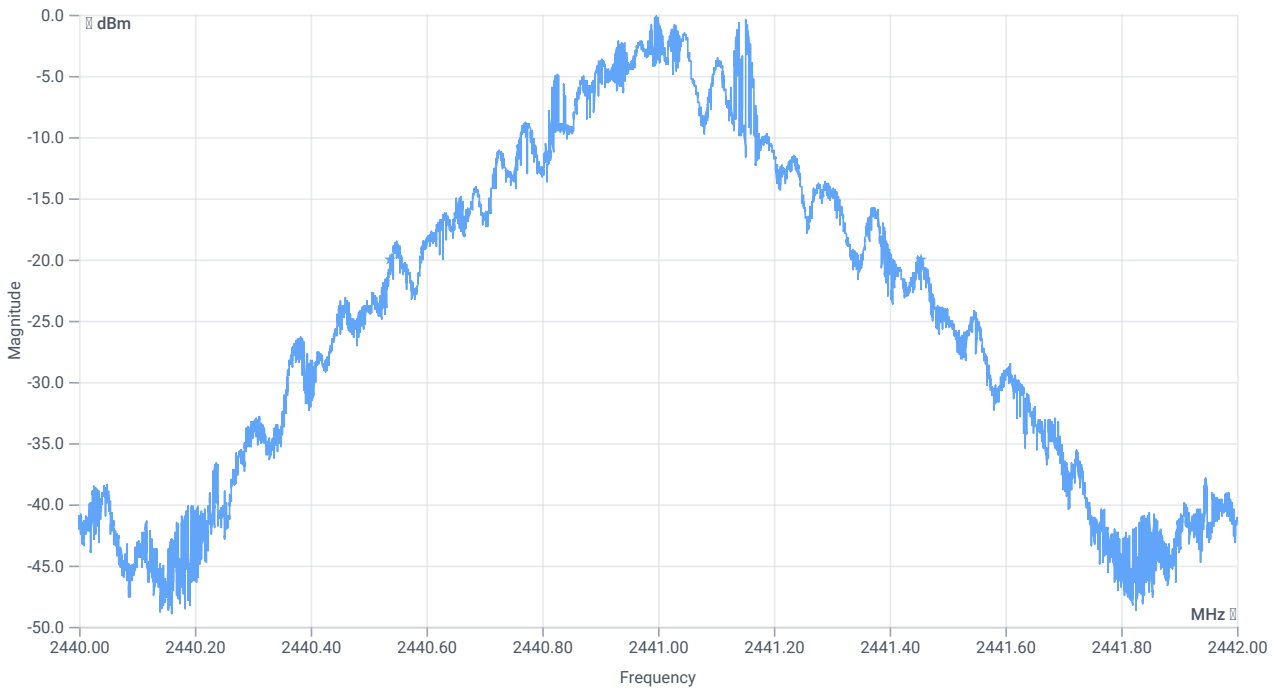




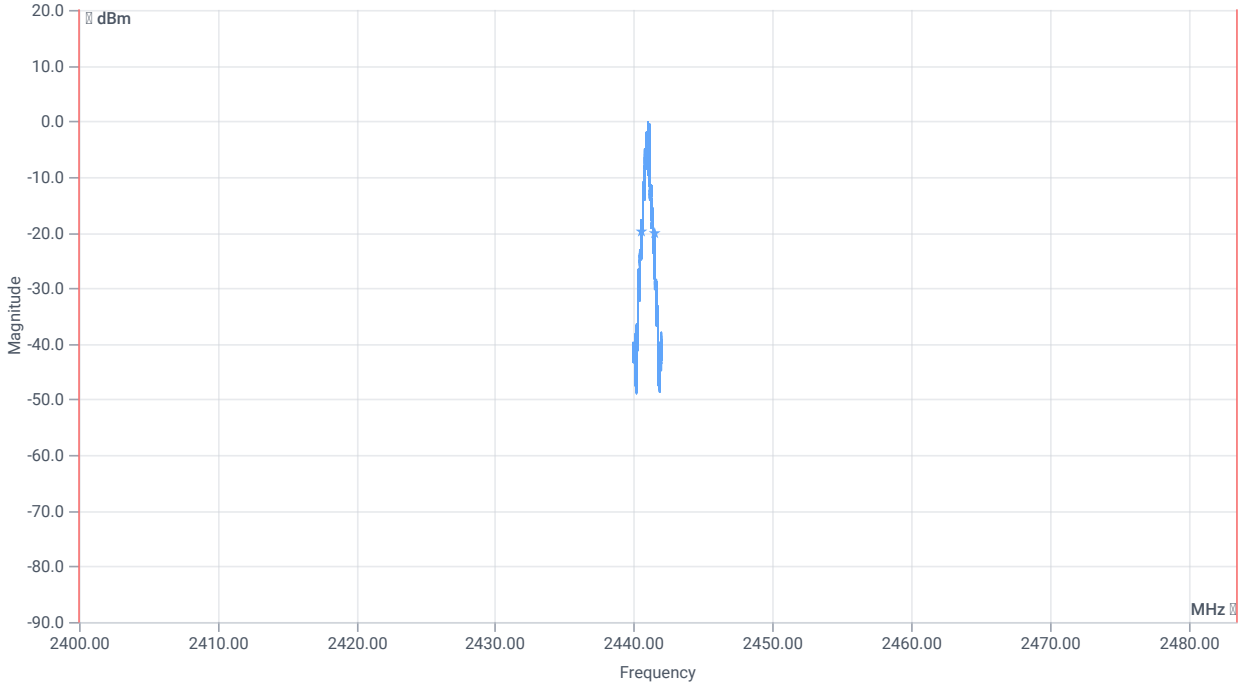
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 869.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2440.5532 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2441.4218 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 916 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2440.5384 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2441.4544 | MHz | PASS |

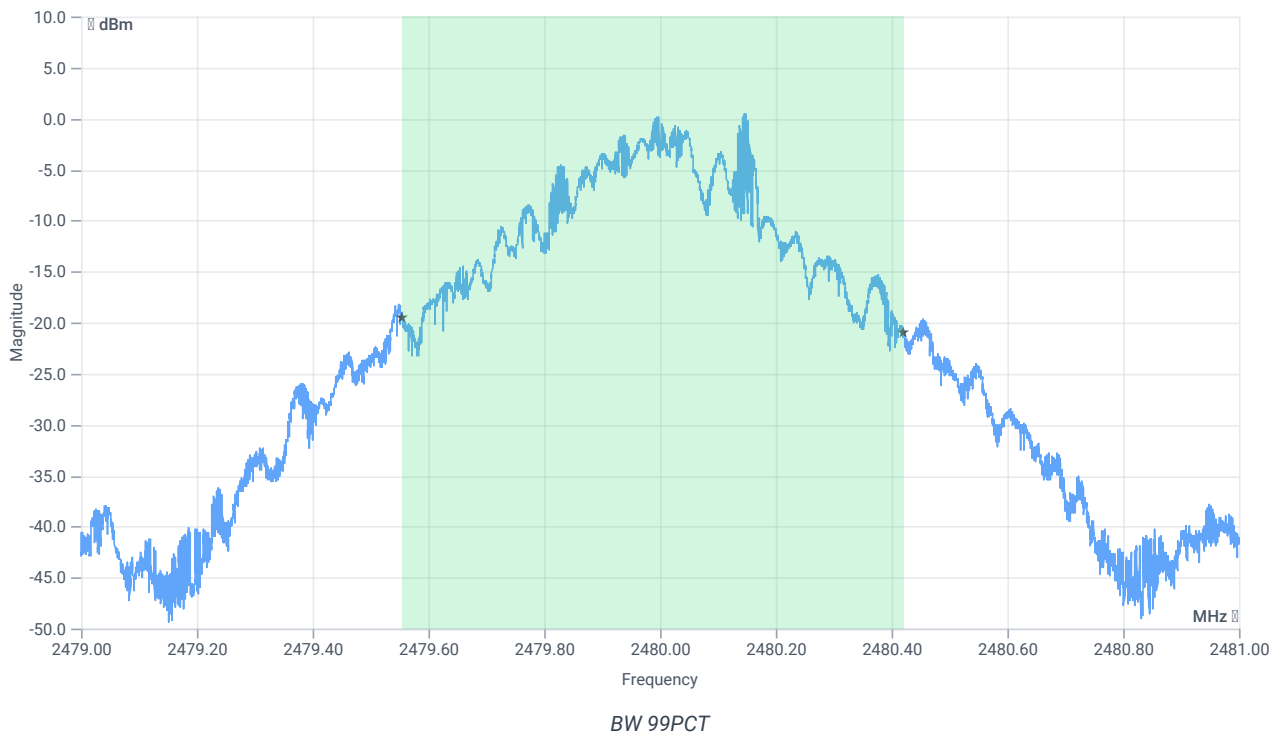
Test at TX 2480 MHz

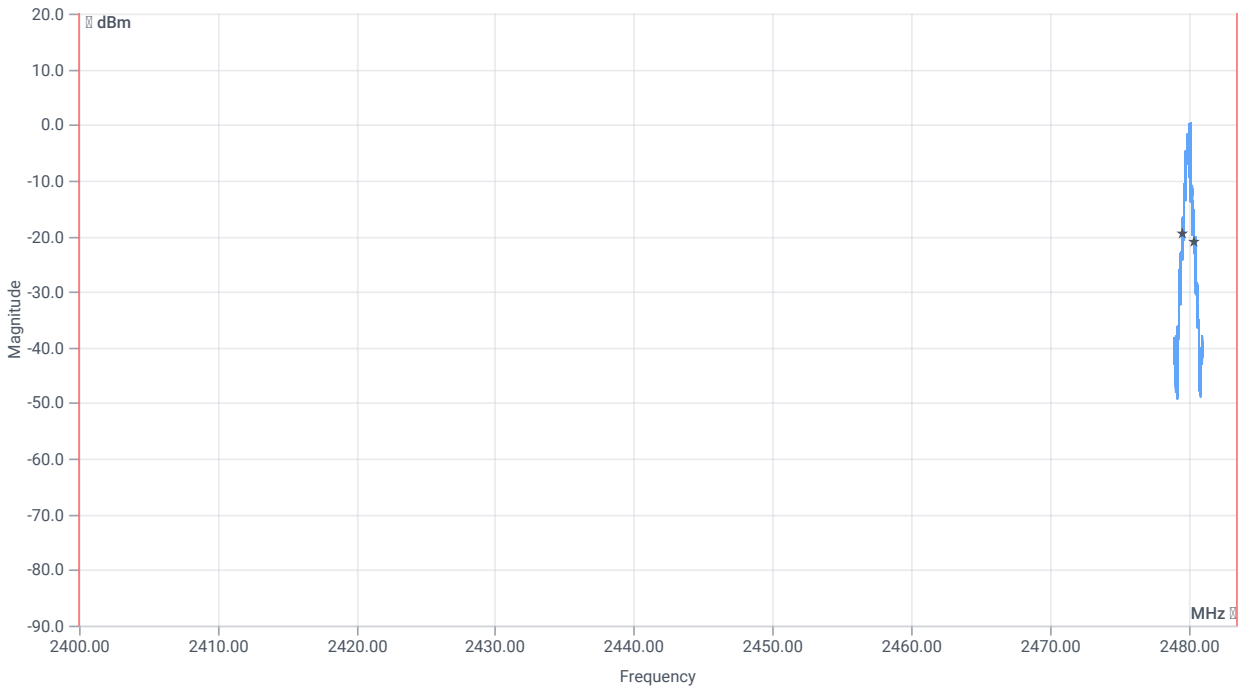
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 2.56 | dBm | INFO |
| Ref. frequency | -- | -- | 2479.900 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.56 9.17 15 |
| Start [MHz] Stop [MHz] | 2479.000 2481.000 |
| RBW [MHz] VBW [MHz] | 0.020000 0.100000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

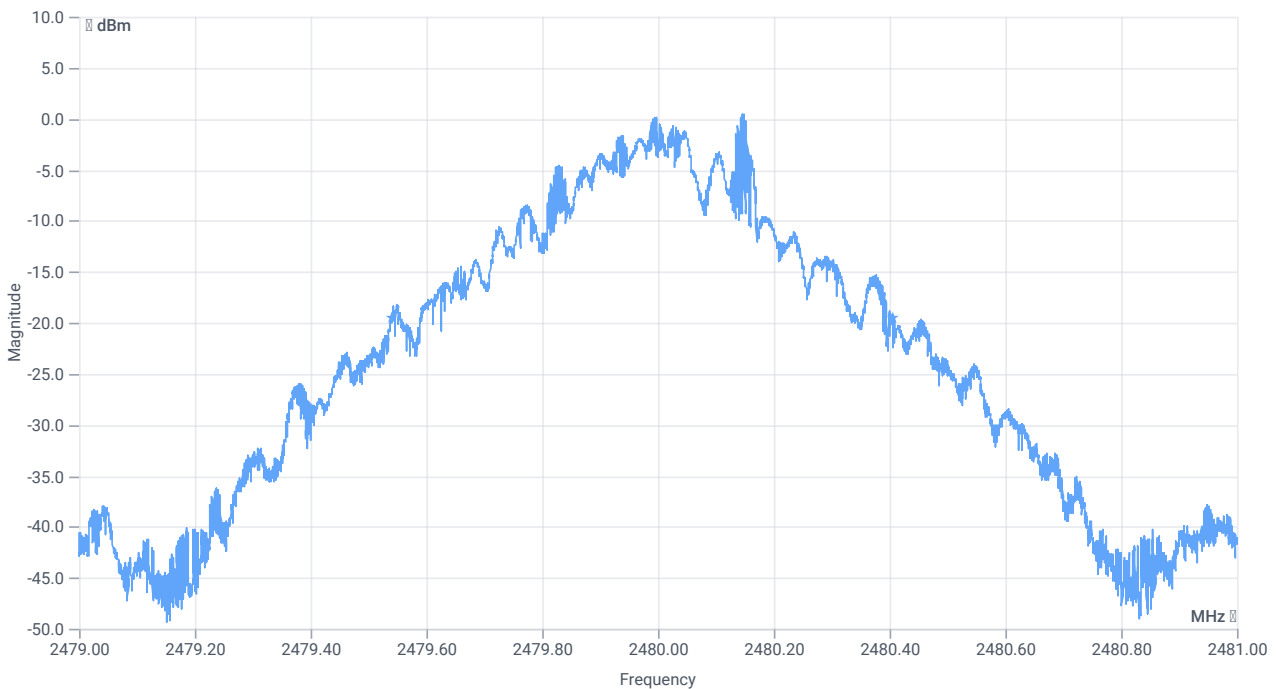




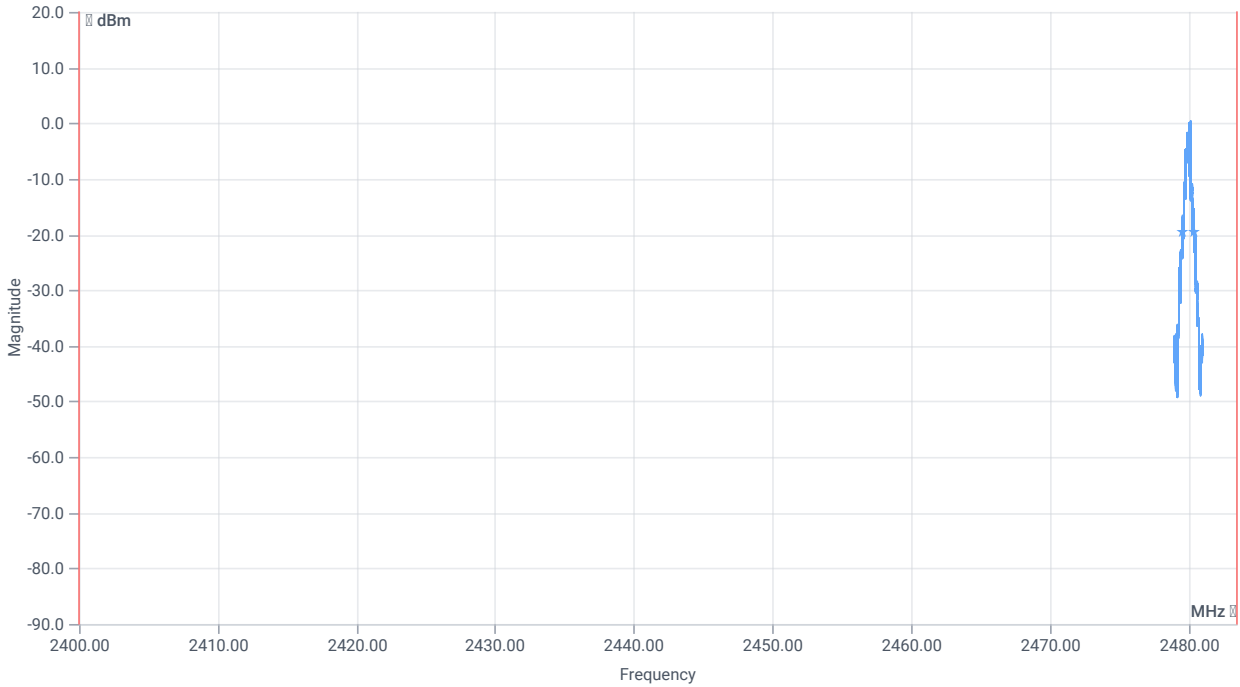
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 866.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2479.5536 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2480.4196 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 866 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2479.5390 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2480.4046 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ BT Classic EDR Pi/4DQPSK

References

| | |
|-----------------------------------|-------------------------------------------------------------------|
| TC start | 08.05.2024 08:55:46 |
| Ambit temp [°C] humidity [rel%] | 28.1 34 |
| System version | 5.0.5.0 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT - 20dB FHSS - BT Classic EDR Pi/4DQPSK |
| Information | |

EUT Common Settings BT Classic

| | |
|------------------------------------|-------------------------------------------------------|
| Intermodulation Value N | 3 |
| Image Freq. Low Mid High [MHz] | 0 0 0 |
| Power Class | 1 |
| Power Control | Enhanced |
| Longest Supported Packet Type | DH5 |
| RF Supported | Basic Rate True EDR Pi/4DQPSK True EDR 8DPSK True |
| Testmode | LOOPback |
| Perform Inquiry | Yes |
| EUT BT Address (if Inquiry No) | 0123456789AB |
| Signaling BT Address | BABEBEDADBAD |

Equipment

| |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,B001,1.0.0 |
| Power supply,ROHDE&SCHWARZ,HMP2020,120582,HW50010003/SW2.71 |

Test Parameter

| | |
|------------------------|--------------------------|
| Technology to test | BT Classic EDR Pi/4DQPSK |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2441 |
| Frequency high to test | True Freq [MHz] 2480 |

Test Parameter

| | |
|--------------------------------------------------|------------------------------------------|
| Auto control enabled power supply Climatic Box | Yes No |
| Additional path loss [dB] | 0 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.MPSIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

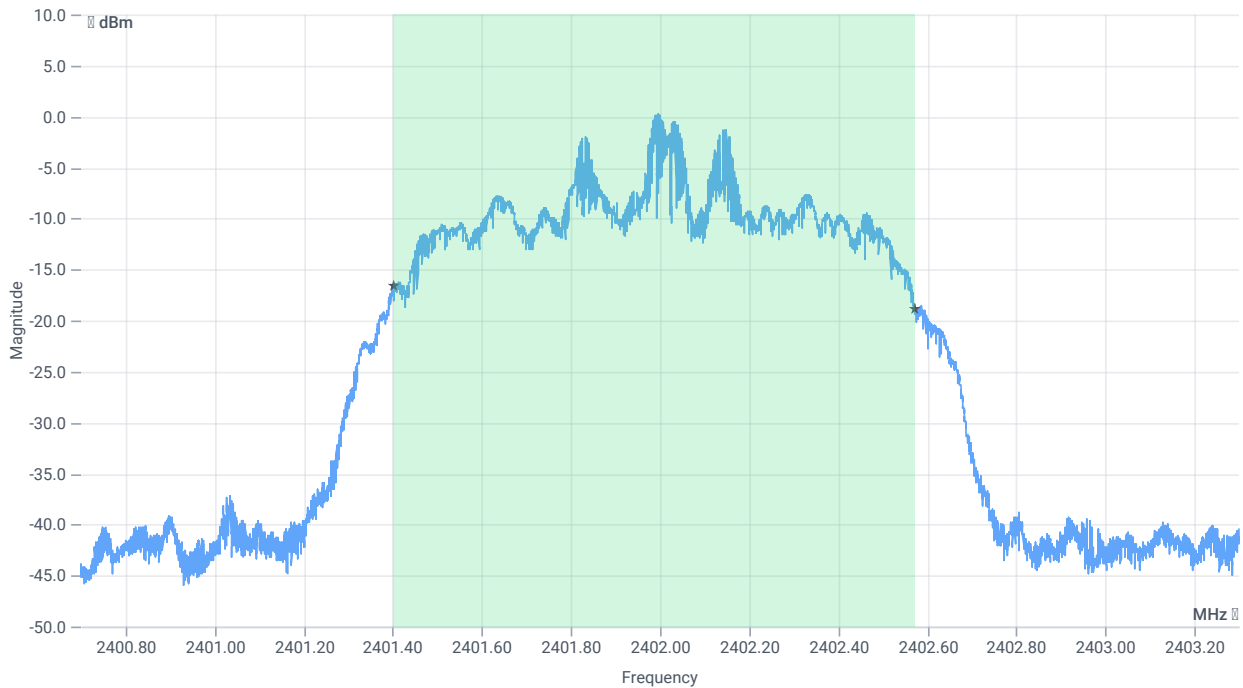
Test at TX 2402 MHz

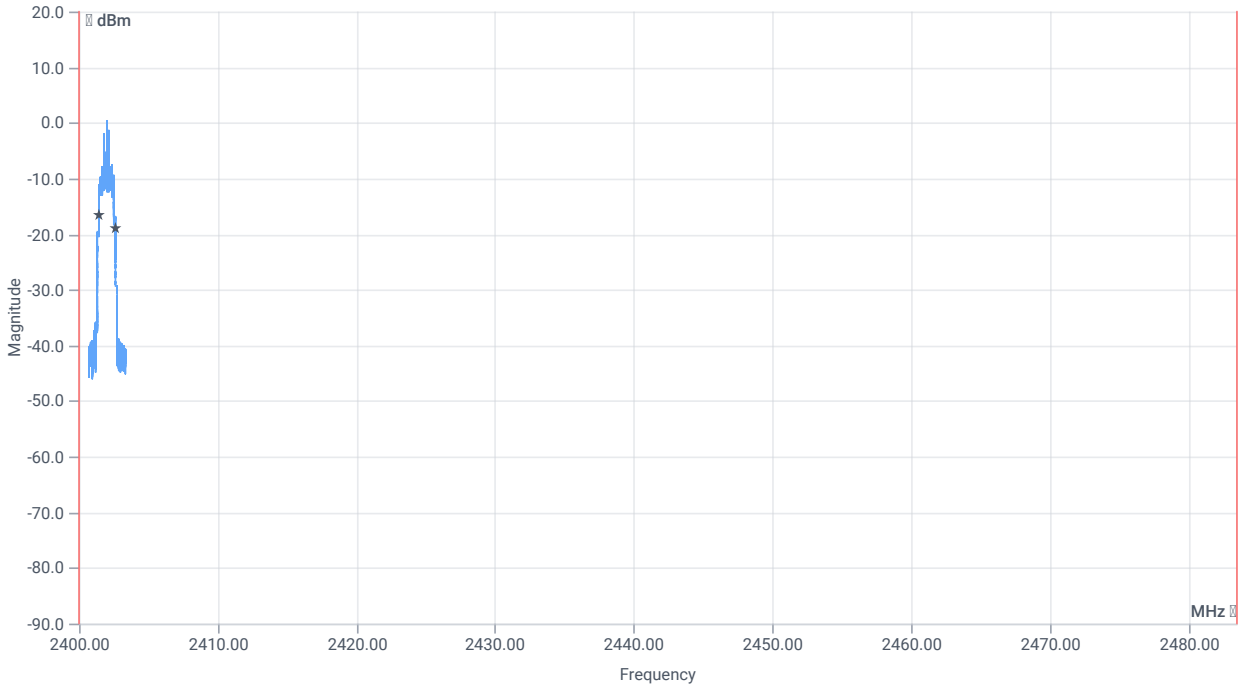
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 1.02 | dBm | INFO |
| Ref. frequency | -- | -- | 2401.900 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 6.02 9.08 15 |
| Start [MHz] Stop [MHz] | 2400.700 2403.300 |
| RBW [MHz] VBW [MHz] | 0.030000 0.100000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

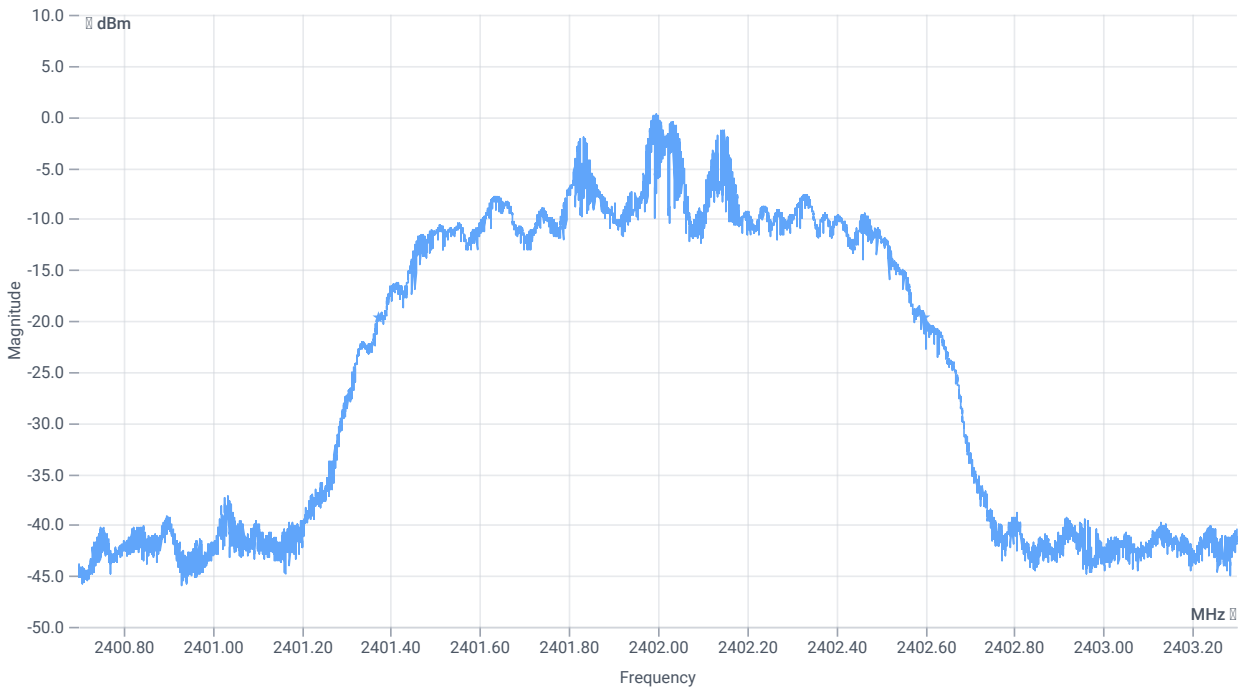




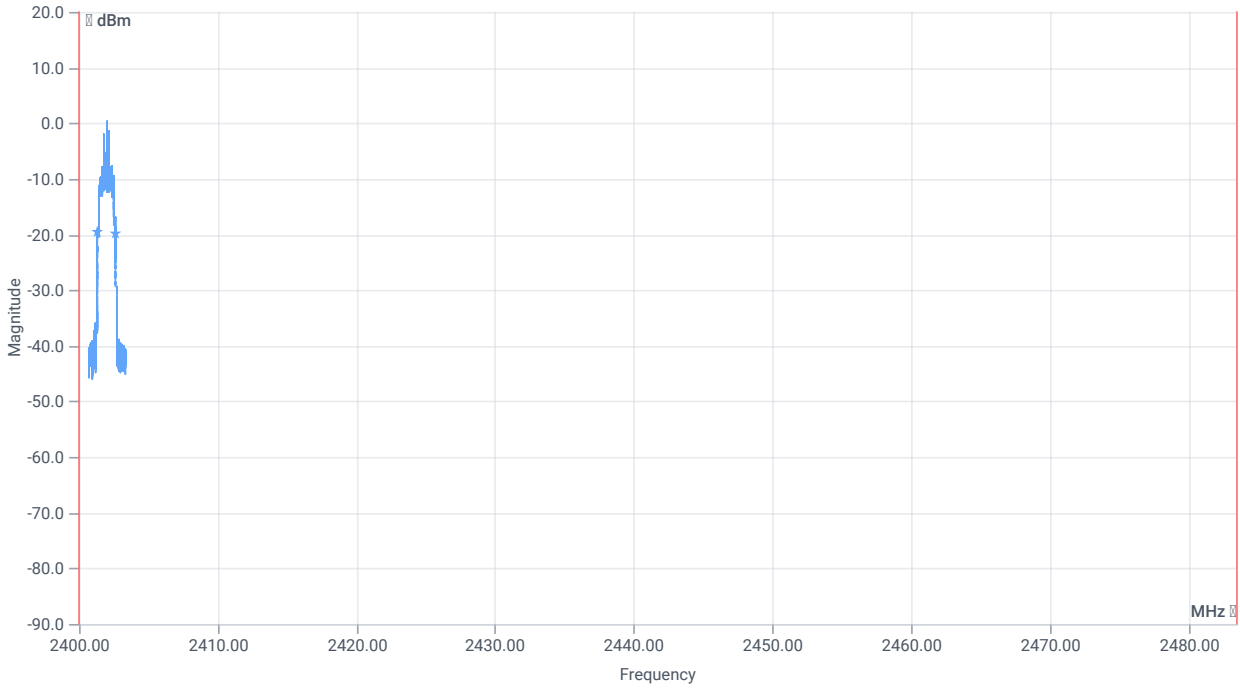
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 1170.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2401.4023 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2402.5719 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 1228 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2401.3716 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2402.5996 | MHz | PASS |

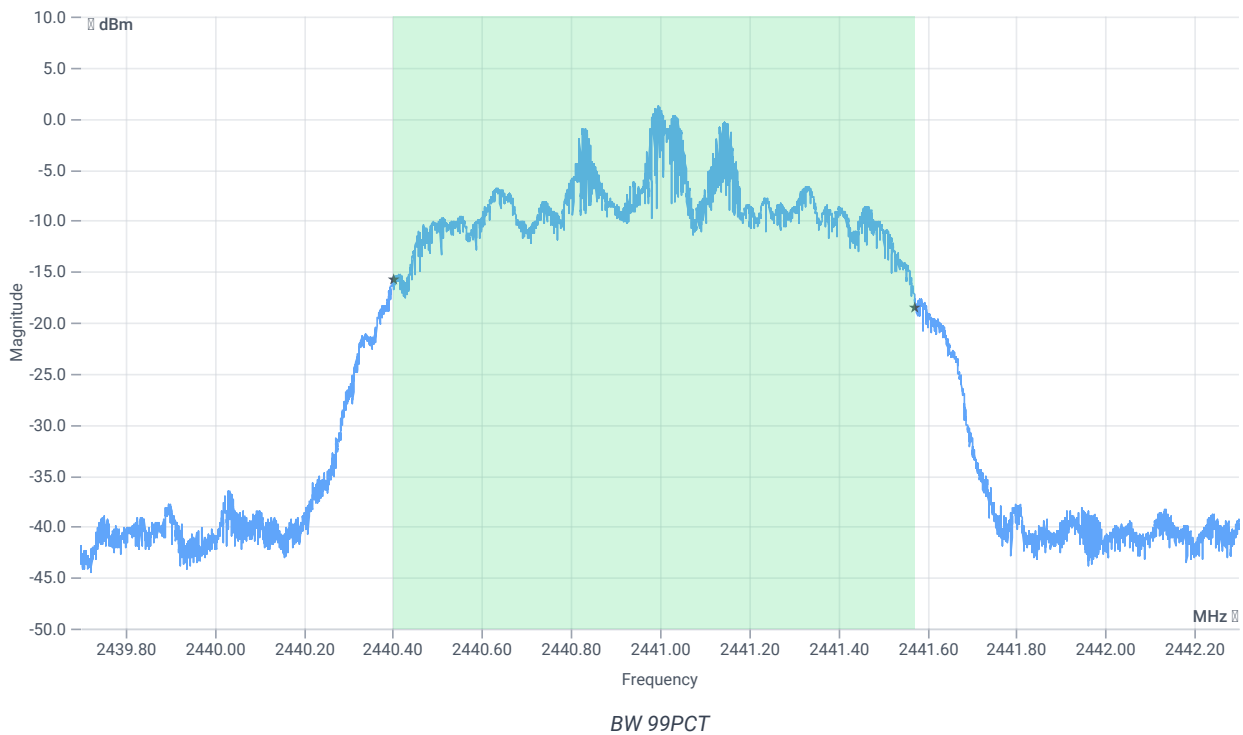
Test at TX 2441 MHz

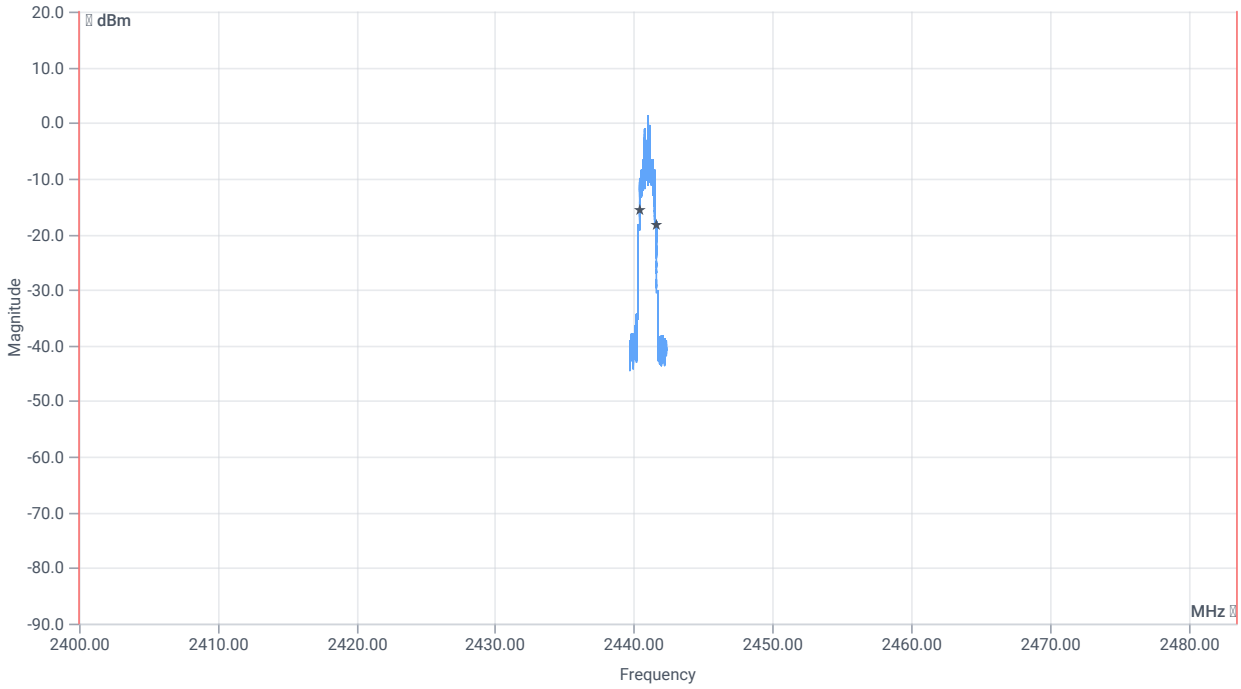
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 1.67 | dBm | INFO |
| Ref. frequency | -- | -- | 2441.000 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 6.67 9.13 15 |
| Start [MHz] Stop [MHz] | 2439.700 2442.300 |
| RBW [MHz] VBW [MHz] | 0.030000 0.100000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |

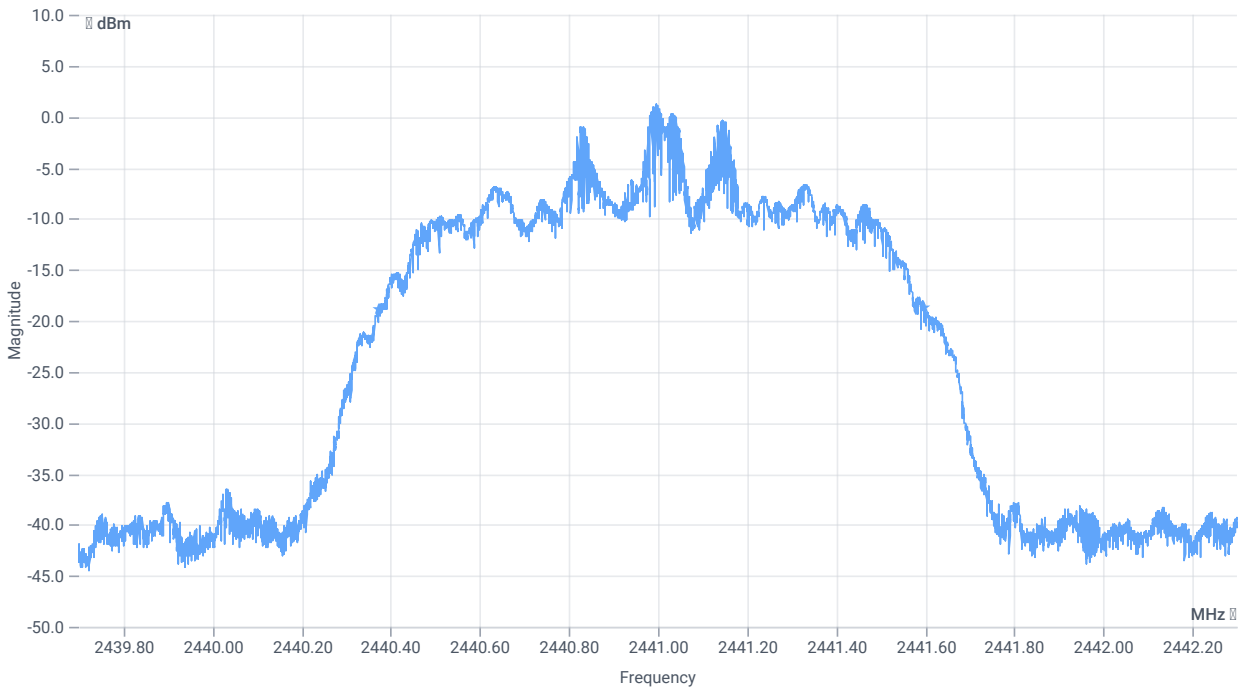




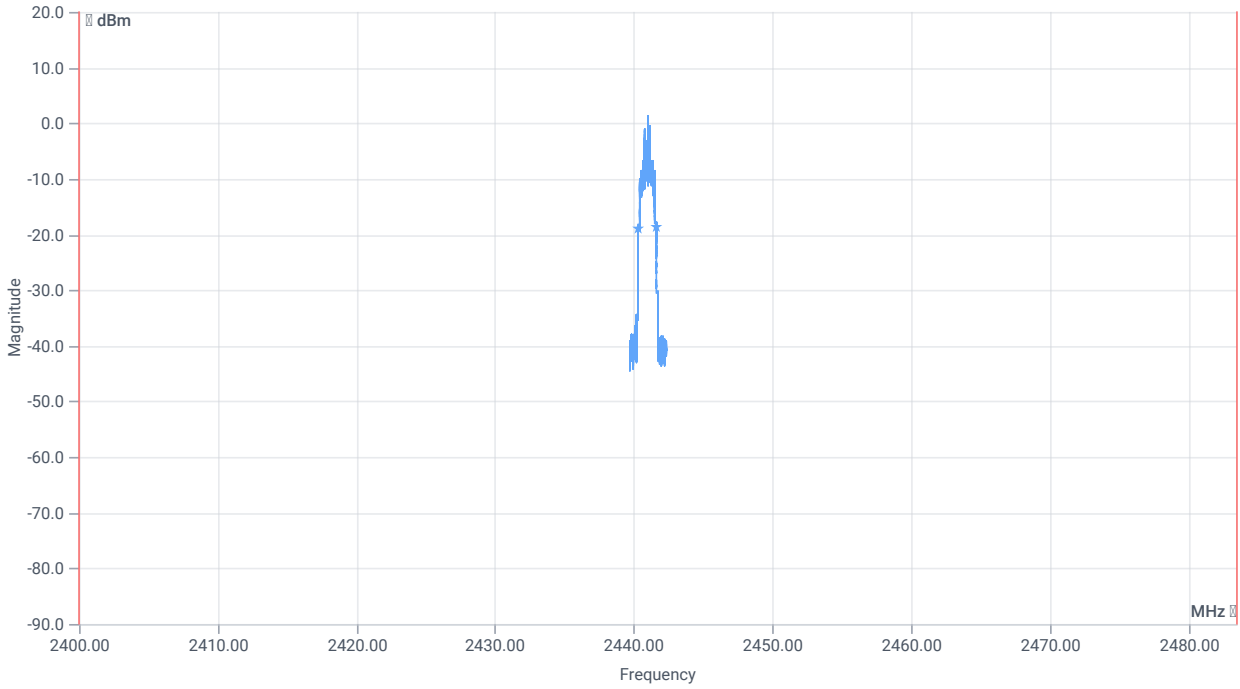
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 1172.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2440.4018 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2441.5735 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 1227 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2440.3713 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2441.5980 | MHz | PASS |

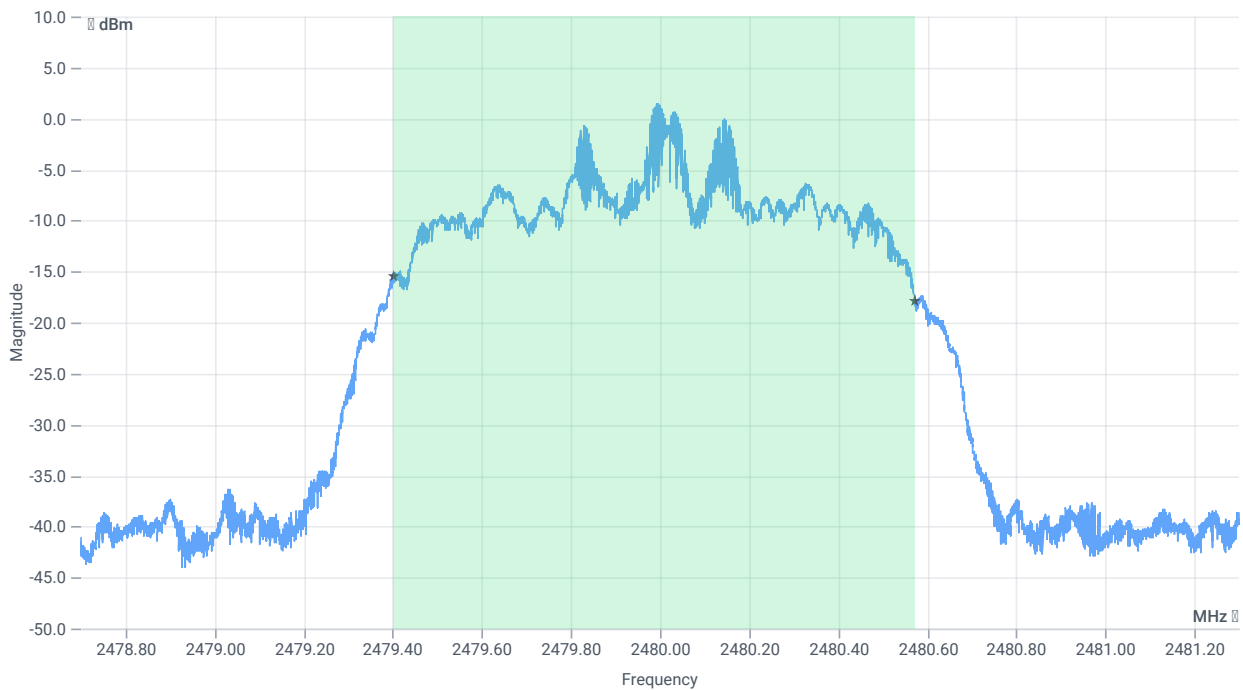
Test at TX 2480 MHz

RESULT: Reference power cond.

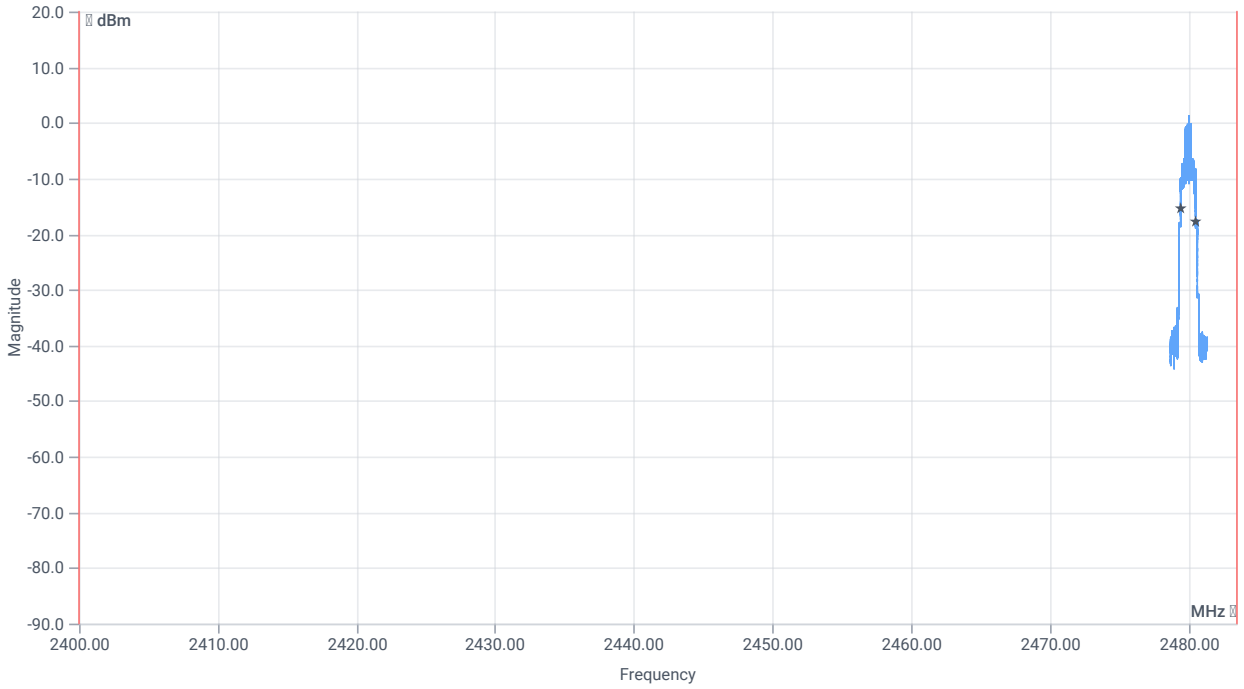
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 1.84 | dBm | INFO |
| Ref. frequency | -- | -- | 2479.700 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 6.84 9.17 15 |
| Start [MHz] Stop [MHz] | 2478.700 2481.300 |
| RBW [MHz] VBW [MHz] | 0.030000 0.100000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



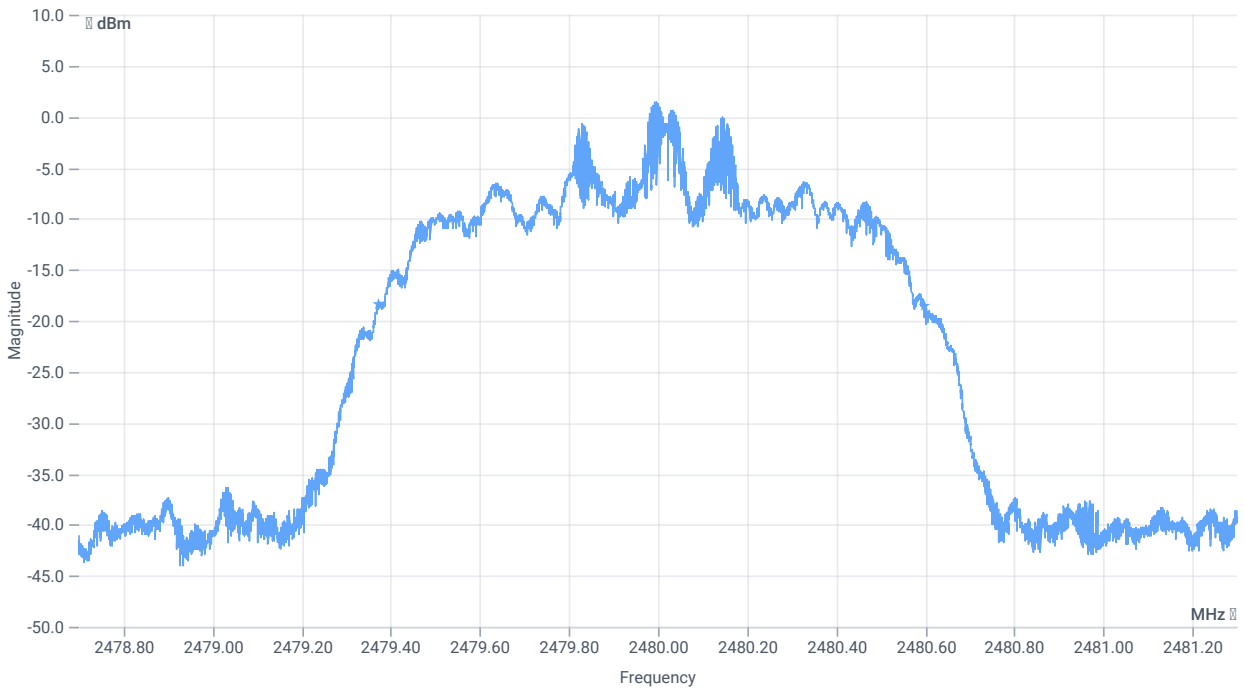
BW 99PCT



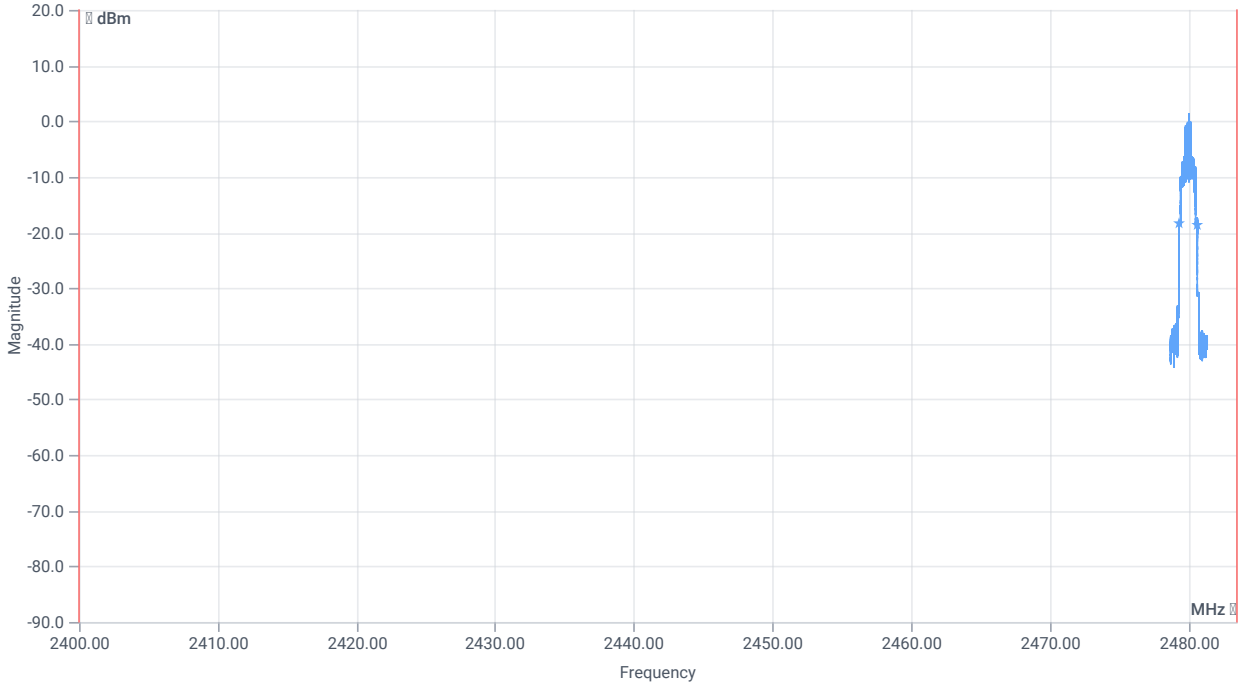
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 1171.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2479.4018 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2480.5725 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 1227 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2479.3711 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2480.5983 | MHz | PASS |

Verdict

PASS

FCC 15.247, ISED RSS247 # Bandwidth 99PCT and 20dB ~ BT Classic EDR 8DPSK

References

| | |
|-----------------------------------|---------------------------------------------------------------|
| TC start | 08.05.2024 09:39:50 |
| Ambit temp [°C] humidity [rel%] | 28.3 33 |
| System version | 5.0.5.0 |
| Standard Version | FCC 15.247, ISED RSS247 NI |
| Method | |
| Description | FCC 15.247 Bandwidth 99PCT - 20dB FHSS - BT Classic EDR 8DPSK |
| Information | |

EUT Common Settings BT Classic

| | |
|------------------------------------|-------------------------------------------------------|
| Intermodulation Value N | 3 |
| Image Freq. Low Mid High [MHz] | 0 0 0 |
| Power Class | 1 |
| Power Control | Enhanced |
| Longest Supported Packet Type | DH5 |
| RF Supported | Basic Rate True EDR Pi/4DQPSK True EDR 8DPSK True |
| Testmode | LOOPback |
| Perform Inquiry | Yes |
| EUT BT Address (if Inquiry No) | 0123456789AB |
| Signaling BT Address | BABEBEDADBAD |

Equipment

| |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,B001,1.0.0 |
| Power supply,ROHDE&SCHWARZ,HMP2020,120582,HW50010003/SW2.71 |

Test Parameter

| | |
|--------------------------------------------------|------------------------|
| Technology to test | BT Classic EDR 8DPSK |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2441 |
| Frequency high to test | True Freq [MHz] 2480 |
| Auto control enabled power supply Climatic Box | Yes No |

Test Parameter

| | |
|---------------------------|------------------------------------------|
| Additional path loss [dB] | 0 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.MPSIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

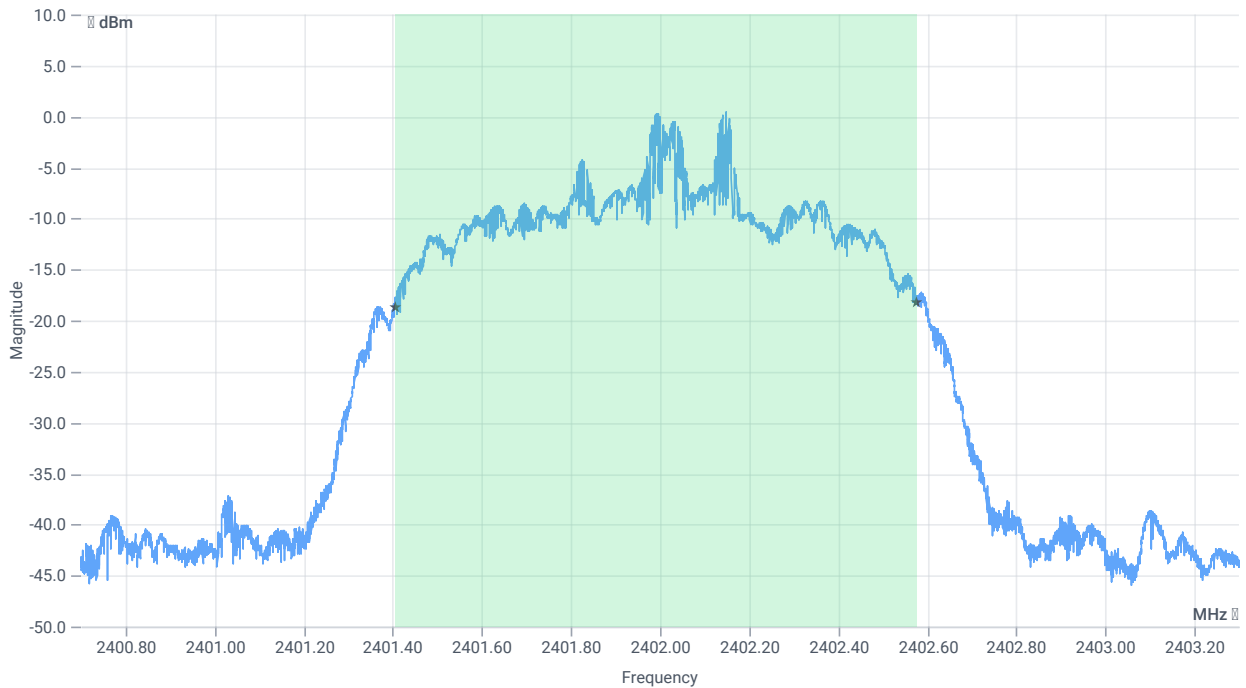
Test at TX 2402 MHz

RESULT: Reference power cond.

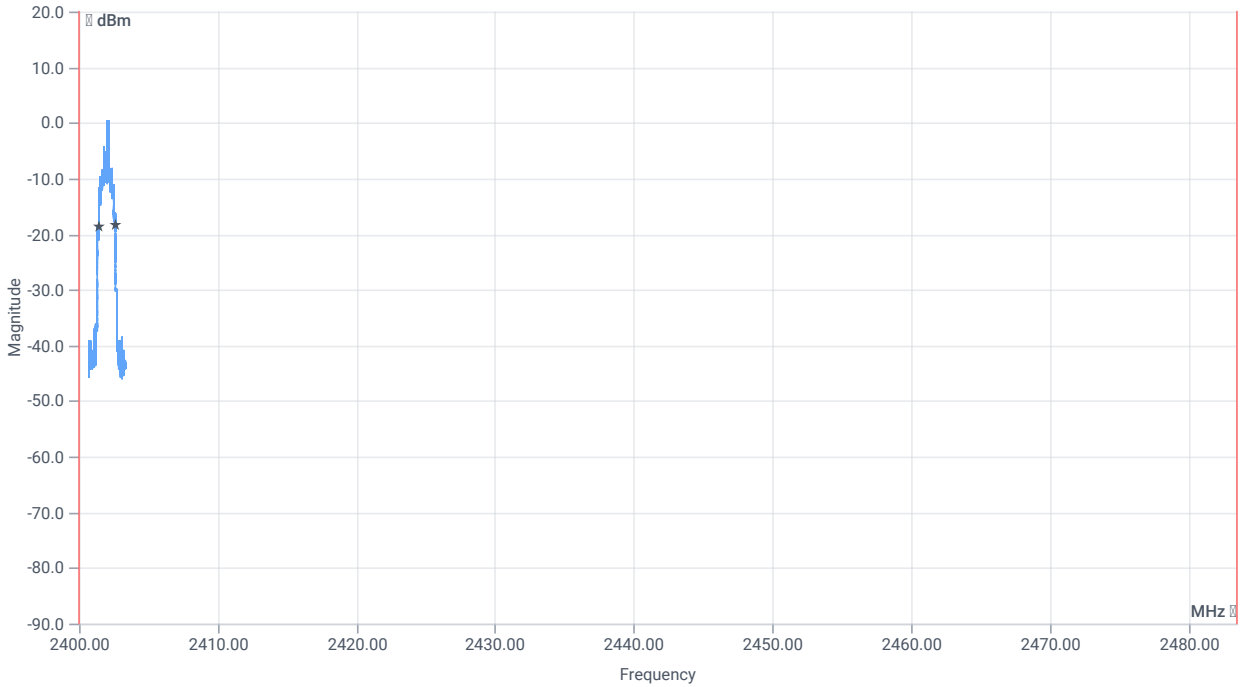
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 0.97 | dBm | INFO |
| Ref. frequency | -- | -- | 2402.000 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 5.97 9.08 15 |
| Start [MHz] Stop [MHz] | 2400.700 2403.300 |
| RBW [MHz] VBW [MHz] | 0.030000 0.100000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



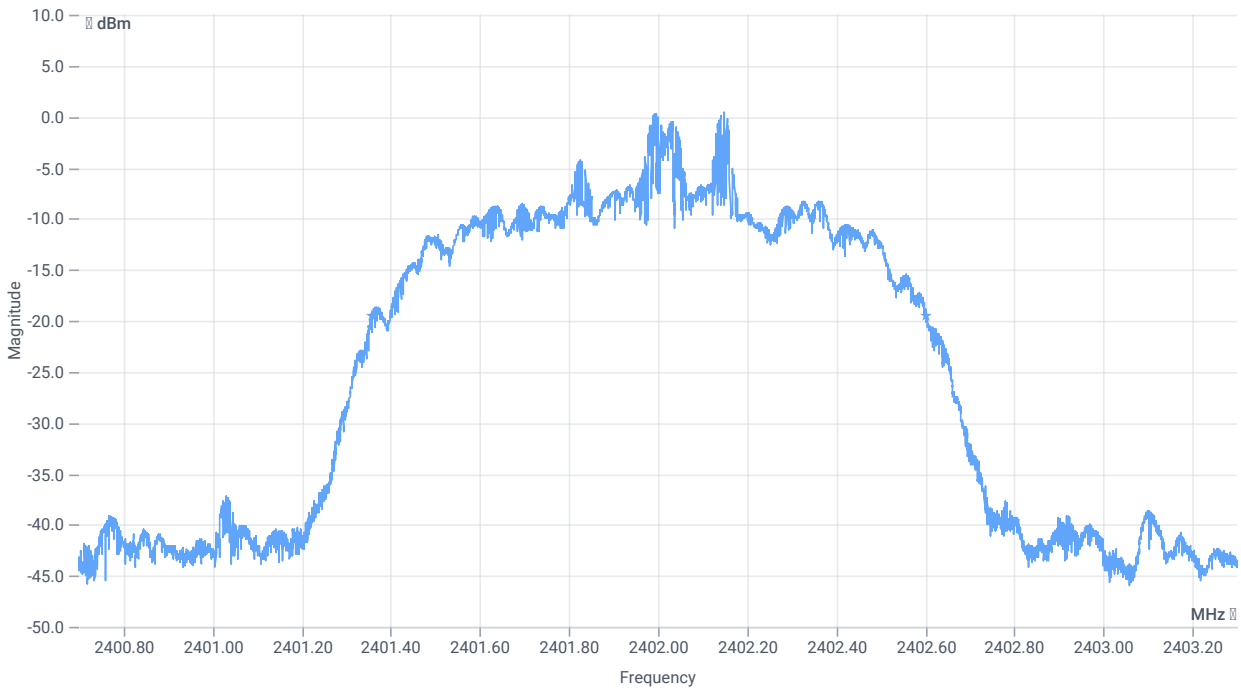
BW 99PCT



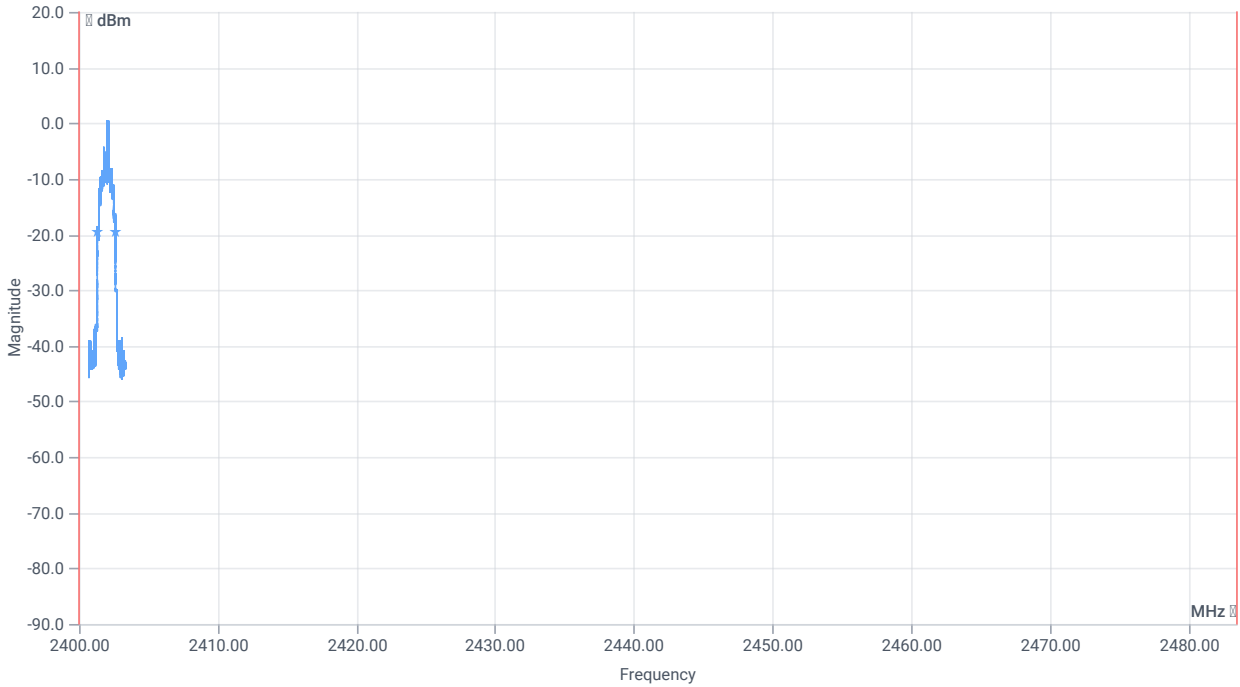
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 1173.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2401.4039 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2402.5771 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 1245 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2401.3573 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2402.6027 | MHz | PASS |

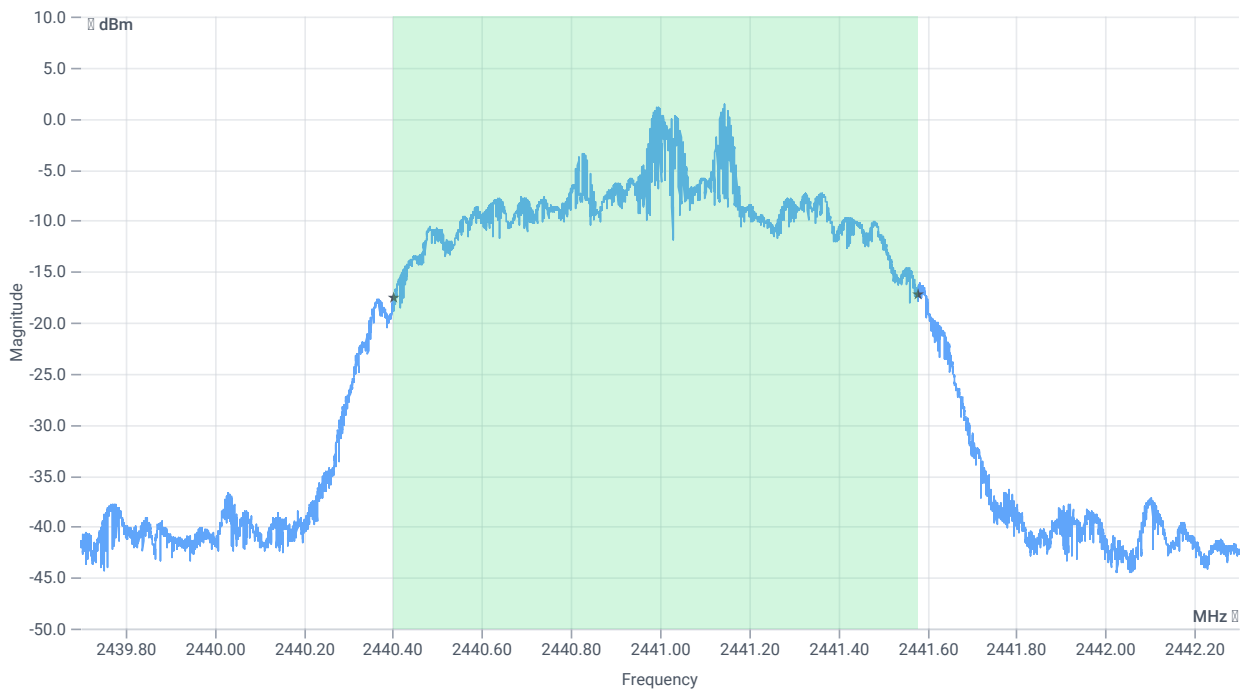
Test at TX 2441 MHz

RESULT: Reference power cond.

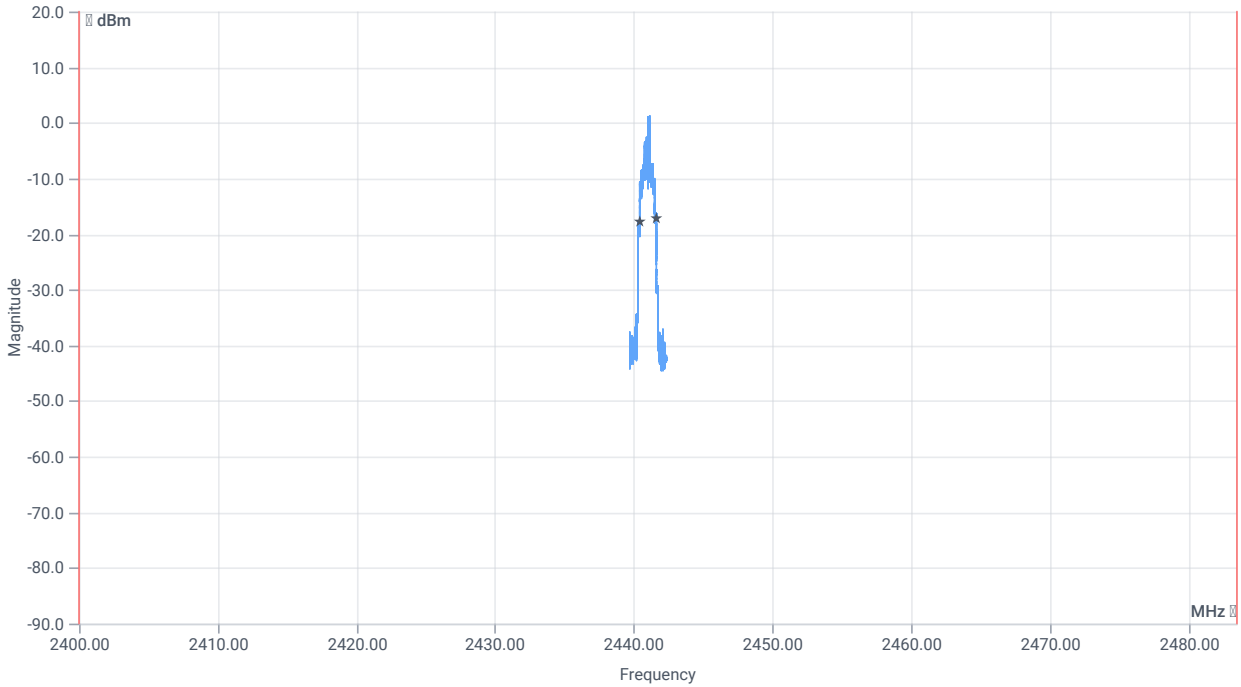
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 2.03 | dBm | INFO |
| Ref. frequency | -- | -- | 2440.900 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.03 9.13 15 |
| Start [MHz] Stop [MHz] | 2439.700 2442.300 |
| RBW [MHz] VBW [MHz] | 0.030000 0.100000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



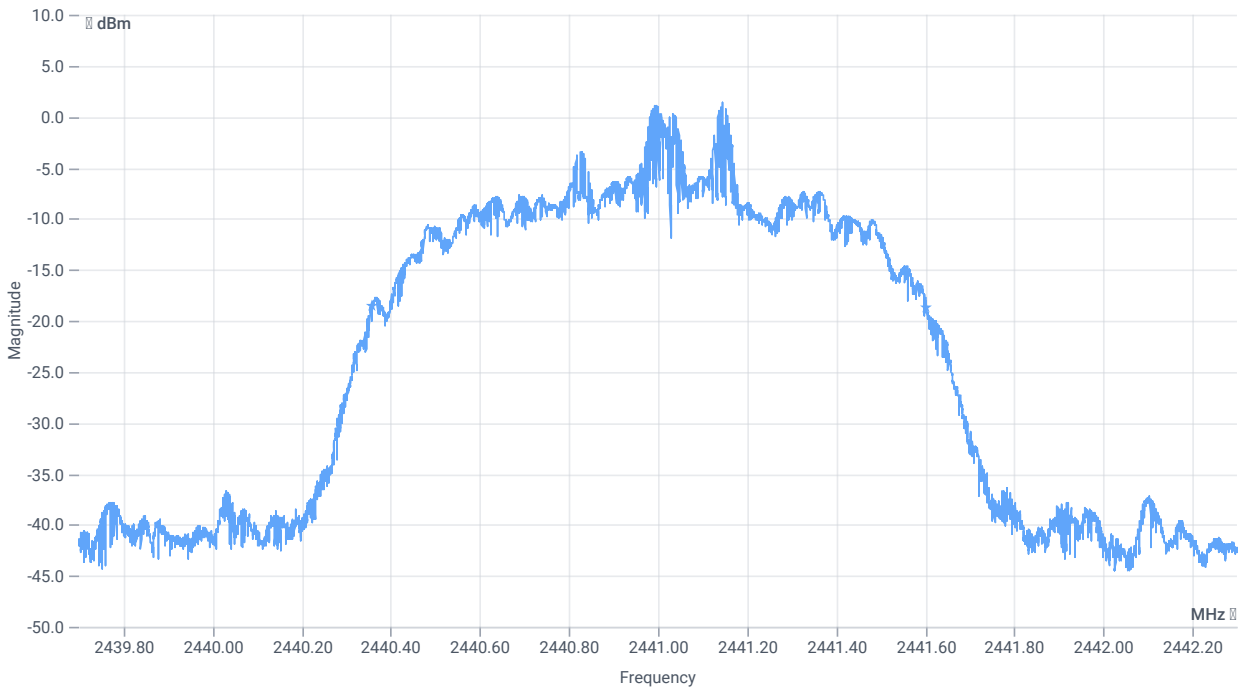
BW 99PCT



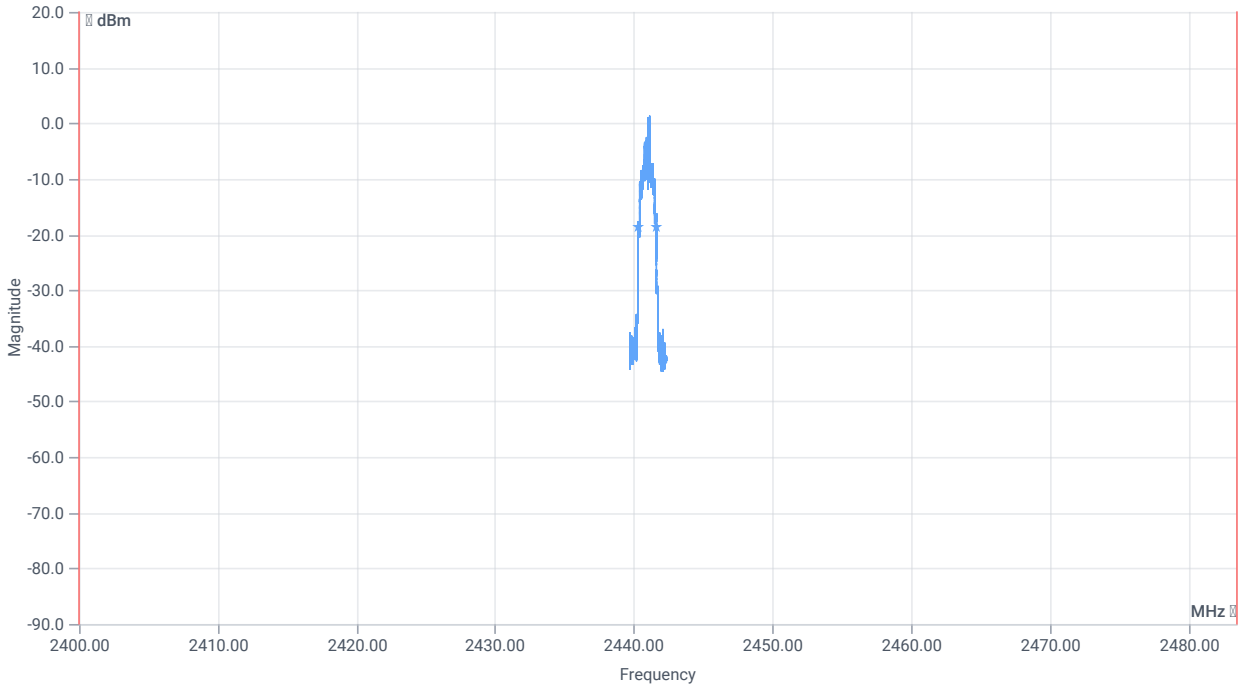
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 1175.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2440.4028 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2441.5779 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 1246 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2440.3570 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2441.6032 | MHz | PASS |

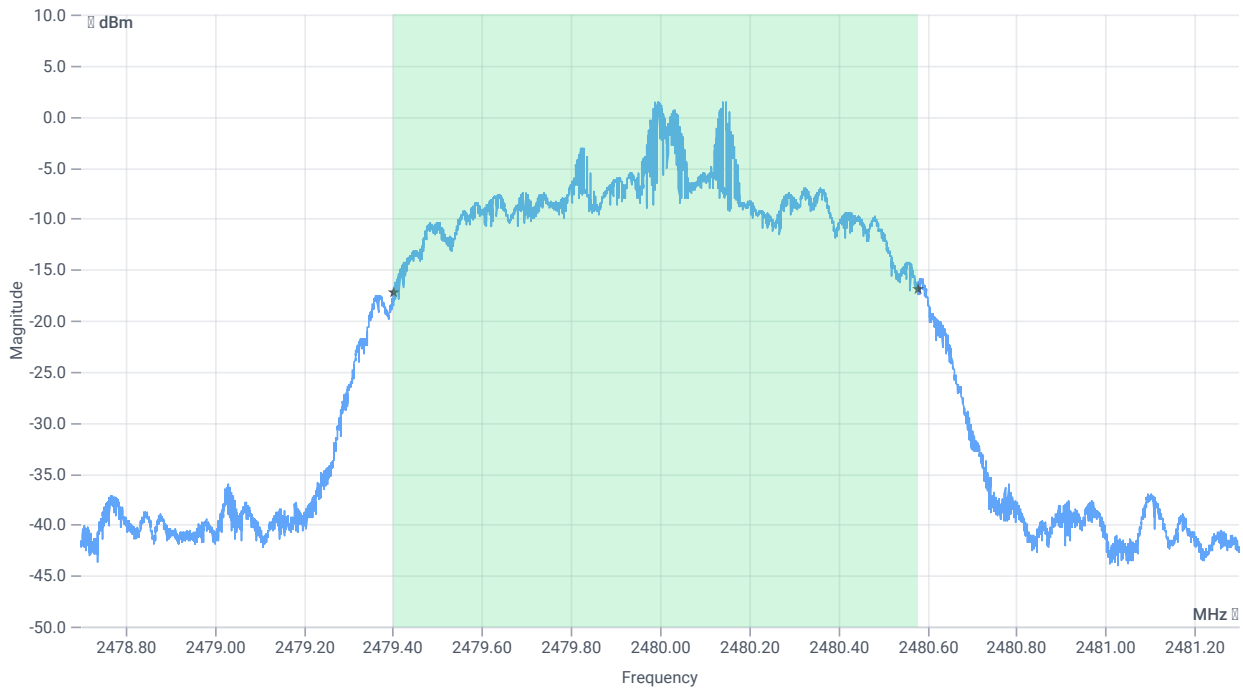
Test at TX 2480 MHz

RESULT: Reference power cond.

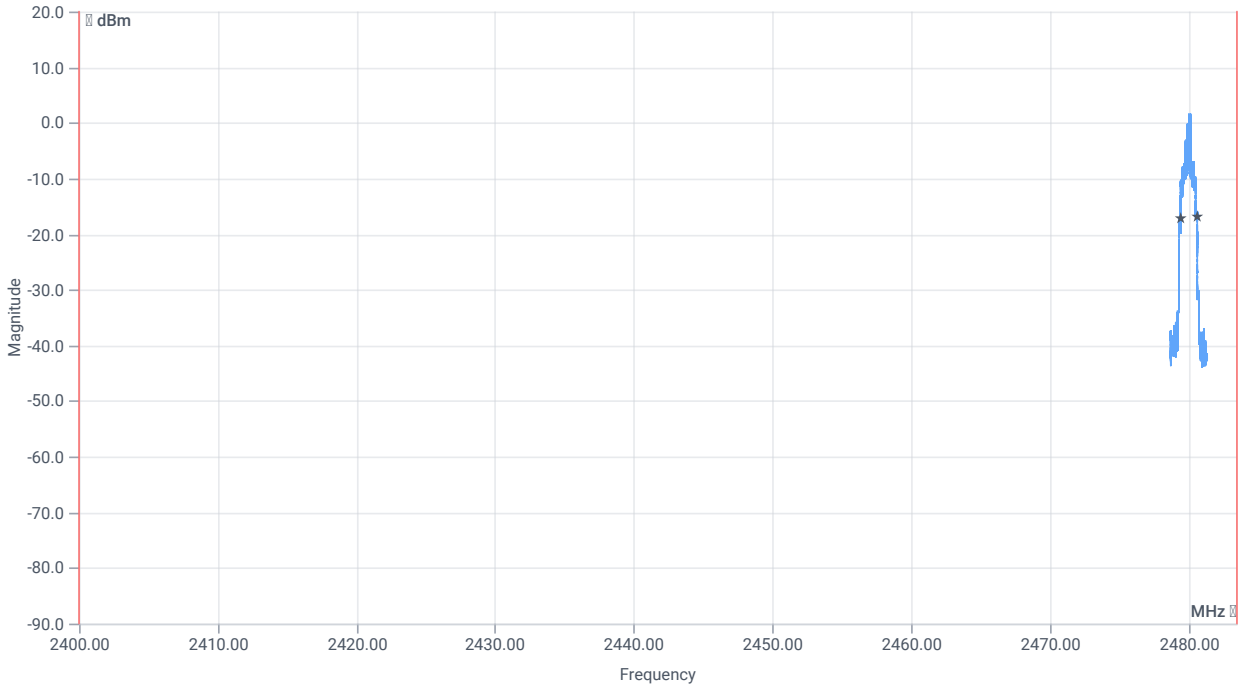
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 2.03 | dBm | INFO |
| Ref. frequency | -- | -- | 2479.900 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.03 9.17 15 |
| Start [MHz] Stop [MHz] | 2478.700 2481.300 |
| RBW [MHz] VBW [MHz] | 0.030000 0.100000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 50 200 10001 SWE |



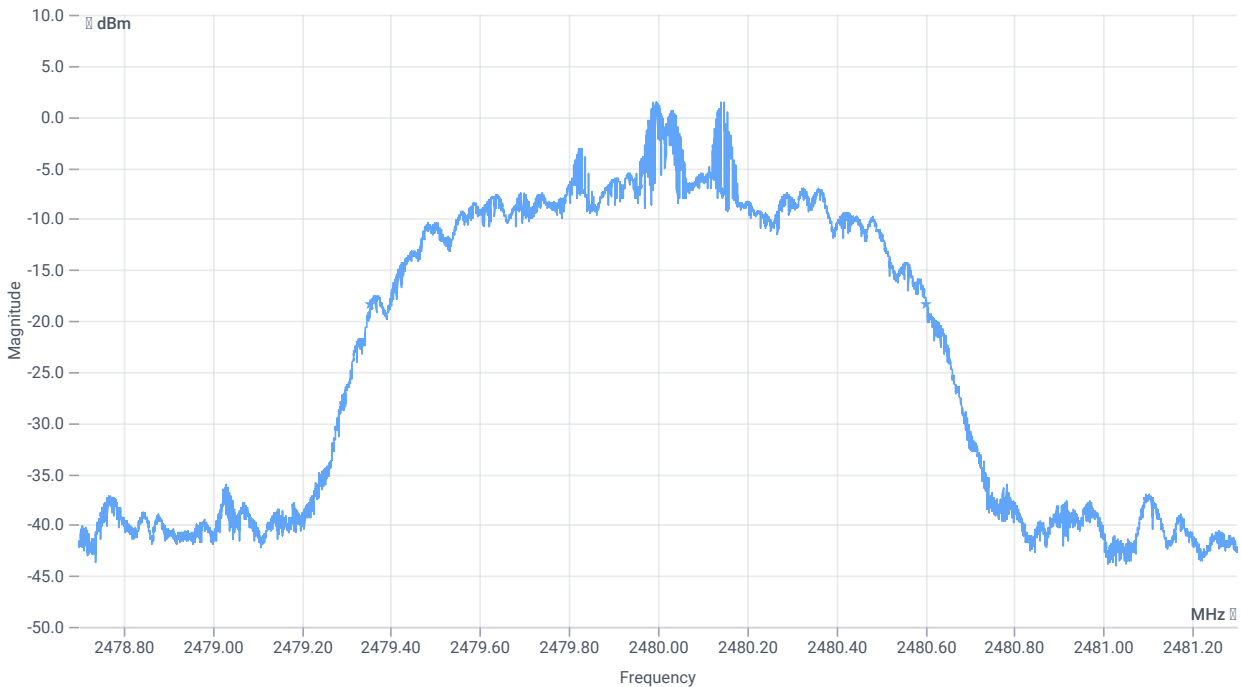
BW 99PCT



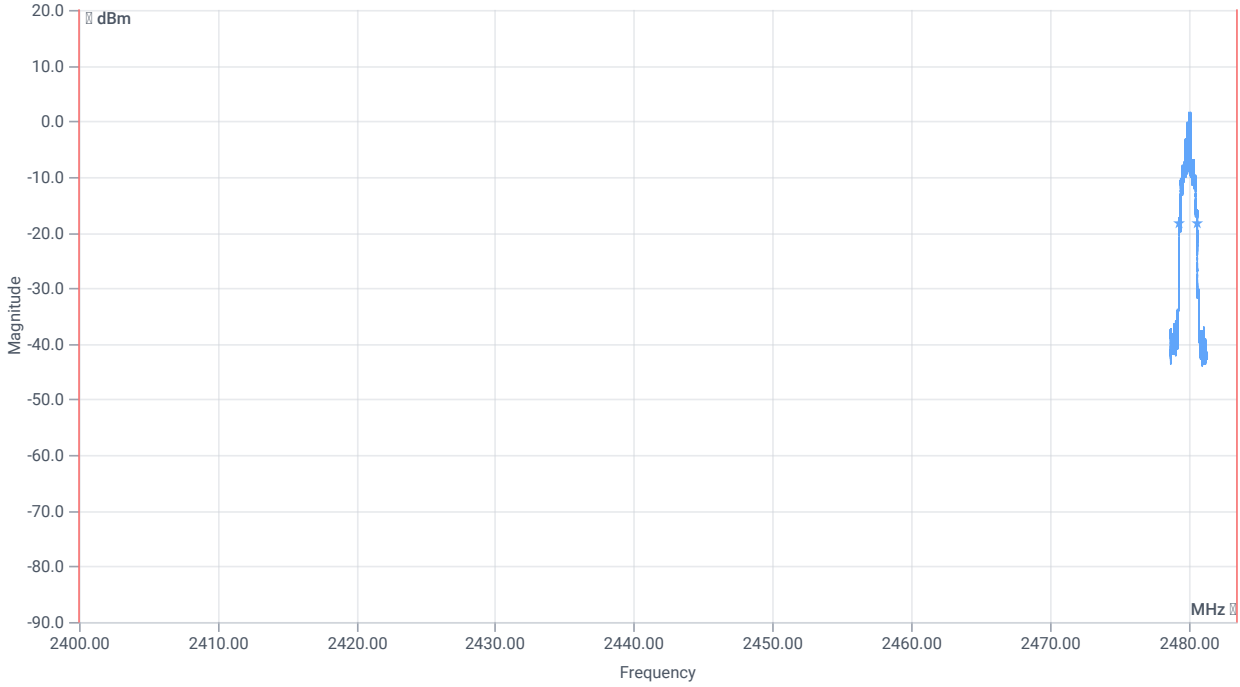
BW within Band 99PCT

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------|-------------|-------------|-----------|------|---------|
| Bandwidth 99% | -- | -- | 1176.000 | kHz | INFO |
| T1 99% | 2400.000000 | -- | 2479.4023 | MHz | PASS |
| T2 99% | -- | 2483.500000 | 2480.5782 | MHz | PASS |



BW 20dB



BW within band 20dB

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------|-------------|-------------|-----------|------|---------|
| Bandwidth 20dB | -- | -- | 1248 | kHz | INFO |
| T1 20dB | 2400.000000 | -- | 2479.3552 | MHz | PASS |
| T2 20dB | -- | 2483.500000 | 2480.6035 | MHz | PASS |

Verdict

PASS

FCC 15.247 # Carrier frequency separation FHSS ~ BT Classic Basic rate

References

| | |
|-----------------------------------|----------------------------------------------------------------------|
| TC start | 08.05.2024 08:09:38 |
| Ambit temp [°C] humidity [rel%] | 27.8 36 |
| System version | 5.0.5.0 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Carrier Frequency Separation FHSS - BT Classic Basic Rate |
| Information | |

EUT Common Settings BT Classic

| | |
|------------------------------------|-------------------------------------------------------|
| Intermodulation Value N | 3 |
| Image Freq. Low Mid High [MHz] | 0 0 0 |
| Power Class | 1 |
| Power Control | Enhanced |
| Longest Supported Packet Type | DH5 |
| RF Supported | Basic Rate True EDR Pi/4DQPSK True EDR 8DPSK True |
| Testmode | LOOPback |
| Perform Inquiry | Yes |
| EUT BT Address (if Inquiry No) | 0123456789AB |
| Signaling BT Address | BABEBEDADBAD |

Equipment

| |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,B001,1.0.0 |
| Power supply,ROHDE&SCHWARZ,HMP2020,120582,HW50010003/SW2.71 |

Test Parameter

| | |
|------------------------|-------------------------|
| Technology to test | BT Classic Basic rate |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2441 |
| Frequency high to test | False Freq [MHz] 2480 |

Test Parameter

| | |
|--------------------------------------------------|-------------------------------------------|
| Auto control enabled power supply Climatic Box | Yes No |
| Additional path loss [dB] | 0 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

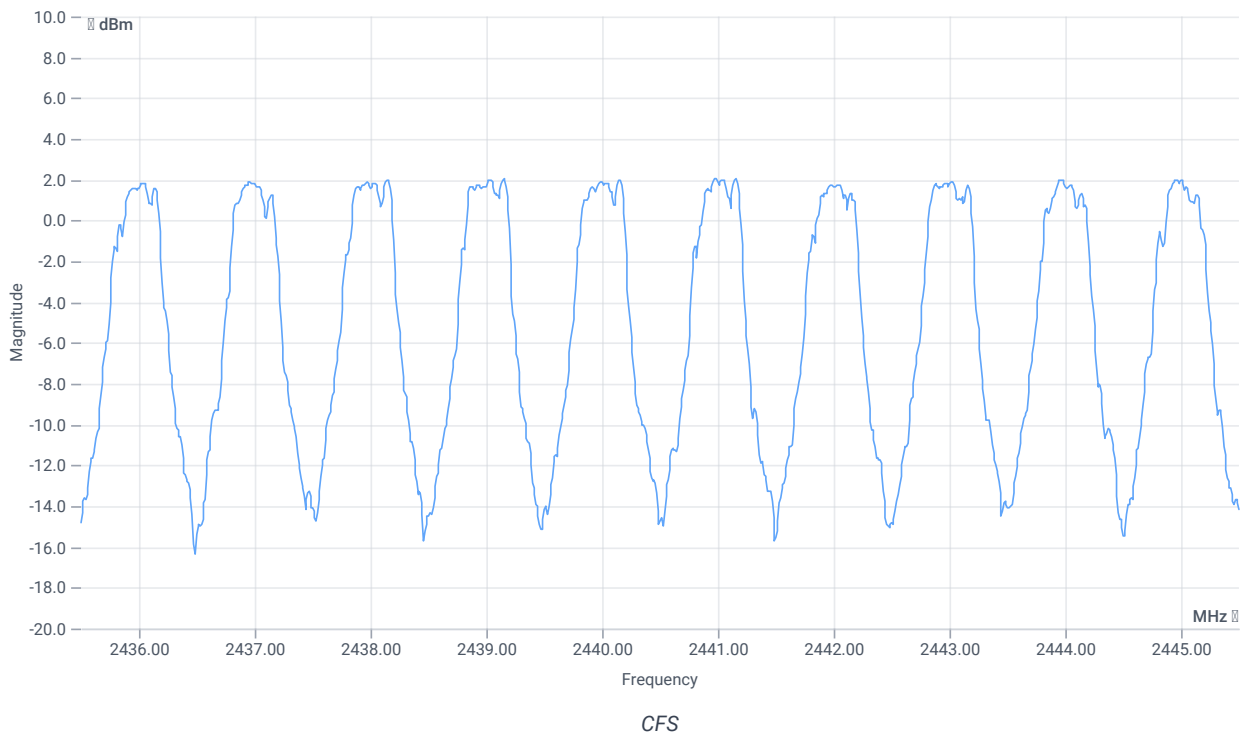
Test at TX hopping MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 2.57 | dBm | INFO |
| Ref. frequency | -- | -- | 2442.000 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.57 9.13 15 |
| Start [MHz] Stop [MHz] | 2435.500 2445.500 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 1 20000 1001 SWE |



RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------------|--------------------|-------------|----------|------|---------|
| 1 CFS n to n+1 (rnd) | 0.025 | -- | 1 | MHz | PASS |
| 1 CFS n to n+1 (rnd) | 0.667 (2/3 Nom.BW) | -- | 1 | MHz | PASS |
| 2 CFS n to n+1 (rnd) | 0.025 | -- | 1 | MHz | PASS |
| 2 CFS n to n+1 (rnd) | 0.667 (2/3 Nom.BW) | -- | 1 | MHz | PASS |
| 3 CFS n to n+1 (rnd) | 0.025 | -- | 1 | MHz | PASS |

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|----------------------|--------------------|-------------|----------|------|---------|
| 3 CFS n to n+1 (rnd) | 0.667 (2/3 Nom.BW) | -- | 1 | MHz | PASS |
| 4 CFS n to n+1 (rnd) | 0.025 | -- | 1 | MHz | PASS |
| 4 CFS n to n+1 (rnd) | 0.667 (2/3 Nom.BW) | -- | 1 | MHz | PASS |
| 5 CFS n to n+1 (rnd) | 0.025 | -- | 1 | MHz | PASS |
| 5 CFS n to n+1 (rnd) | 0.667 (2/3 Nom.BW) | -- | 1 | MHz | PASS |
| 6 CFS n to n+1 (rnd) | 0.025 | -- | 1 | MHz | PASS |
| 6 CFS n to n+1 (rnd) | 0.667 (2/3 Nom.BW) | -- | 1 | MHz | PASS |
| 7 CFS n to n+1 (rnd) | 0.025 | -- | 1 | MHz | PASS |
| 7 CFS n to n+1 (rnd) | 0.667 (2/3 Nom.BW) | -- | 1 | MHz | PASS |
| 8 CFS n to n+1 (rnd) | 0.025 | -- | 1 | MHz | PASS |
| 8 CFS n to n+1 (rnd) | 0.667 (2/3 Nom.BW) | -- | 1 | MHz | PASS |
| 9 CFS n to n+1 (rnd) | 0.025 | -- | 1 | MHz | PASS |
| 9 CFS n to n+1 (rnd) | 0.667 (2/3 Nom.BW) | -- | 1 | MHz | PASS |
| Carrier freq. (rnd) | -- | -- | 2436 | MHz | INFO |
| Carrier freq. (rnd) | -- | -- | 2437 | MHz | INFO |
| Carrier freq. (rnd) | -- | -- | 2438 | MHz | INFO |
| Carrier freq. (rnd) | -- | -- | 2439 | MHz | INFO |
| Carrier freq. (rnd) | -- | -- | 2440 | MHz | INFO |
| Carrier freq. (rnd) | -- | -- | 2441 | MHz | INFO |
| Carrier freq. (rnd) | -- | -- | 2442 | MHz | INFO |
| Carrier freq. (rnd) | -- | -- | 2443 | MHz | INFO |
| Carrier freq. (rnd) | -- | -- | 2444 | MHz | INFO |
| Carrier freq. (rnd) | -- | -- | 2445 | MHz | INFO |

Verdict

PASS

FCC 15.247 # Number of hopping channels FHSS ~ BT Classic Basic rate

References

| | |
|-----------------------------------|--------------------------------------------------------------------|
| TC start | 08.05.2024 08:08:39 |
| Ambit temp [°C] humidity [rel%] | 27.8 36 |
| System version | 5.0.5.0 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 Number Of Hopping Channels FHSS - BT Classic Basic Rate |
| Information | |

EUT Common Settings BT Classic

| | |
|------------------------------------|-------------------------------------------------------|
| Intermodulation Value N | 3 |
| Image Freq. Low Mid High [MHz] | 0 0 0 |
| Power Class | 1 |
| Power Control | Enhanced |
| Longest Supported Packet Type | DH5 |
| RF Supported | Basic Rate True EDR Pi/4DQPSK True EDR 8DPSK True |
| Testmode | LOOPback |
| Perform Inquiry | Yes |
| EUT BT Address (if Inquiry No) | 0123456789AB |
| Signaling BT Address | BABEBEDADBAD |

Equipment

| |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,B001,1.0.0 |
| Power supply,ROHDE&SCHWARZ,HMP2020,120582,HW50010003/SW2.71 |

Test Parameter

| | |
|------------------------|-------------------------|
| Technology to test | BT Classic Basic rate |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2441 |
| Frequency high to test | False Freq [MHz] 2480 |

Test Parameter

| | |
|--------------------------------------------------|------------------------------------------|
| Auto control enabled power supply Climatic Box | Yes No |
| Additional path loss [dB] | 0 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.MPSIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

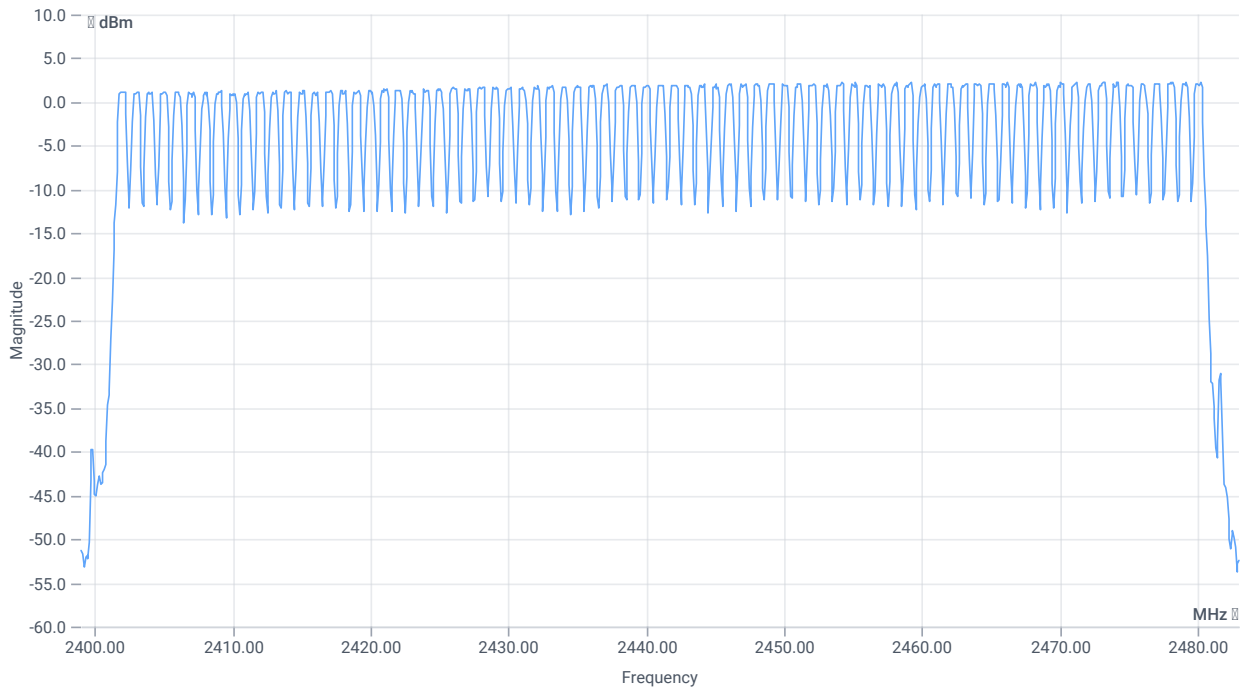
Test at TX hopping MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 2.54 | dBm | INFO |
| Ref. frequency | -- | -- | 2447.090 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.54 9.13 15 |
| Start [MHz] Stop [MHz] | 2399.000 2483.000 |
| RBW [MHz] VBW [MHz] | 0.200000 0.500000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 1 10000 1001 SWE |



Number of hopping channels

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------|-------------|-------------|----------|------|---------|
| Hopp channel (rounded) | -- | -- | 2402 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2403 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2404 | MHz | INFO |

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------|-------------|-------------|----------|------|---------|
| Hopp channel (rounded) | -- | -- | 2405 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2406 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2407 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2408 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2409 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2410 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2411 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2412 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2413 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2414 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2415 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2416 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2417 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2418 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2419 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2420 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2421 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2422 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2423 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2424 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2425 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2426 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2427 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2428 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2429 | MHz | INFO |

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------|-------------|-------------|----------|------|---------|
| Hopp channel (rounded) | -- | -- | 2430 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2431 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2432 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2433 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2434 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2435 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2436 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2437 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2438 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2439 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2440 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2441 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2442 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2443 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2444 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2445 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2446 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2447 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2448 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2449 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2450 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2451 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2452 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2453 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2454 | MHz | INFO |

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|------------------------|-------------|-------------|----------|------|---------|
| Hopp channel (rounded) | -- | -- | 2455 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2456 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2457 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2458 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2459 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2460 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2461 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2462 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2463 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2464 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2465 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2466 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2467 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2468 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2469 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2470 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2471 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2472 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2473 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2474 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2475 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2476 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2477 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2478 | MHz | INFO |
| Hopp channel (rounded) | -- | -- | 2479 | MHz | INFO |

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------|-------------|-------------|----------|--------|---------|
| Hopp channel (rounded) | -- | -- | 2480 | MHz | INFO |
| Σ Hopping channels | 15 | -- | 79 | Number | PASS |

Verdict

PASS

FCC 15.247 # TX Emissions on band edge FCC ~ BT Classic Basic rate

References

| | |
|-----------------------------------|-----------------------------------------------------------------------------|
| TC start | 08.05.2024 10:20:43 |
| Ambit temp [°C] humidity [rel%] | 28.6 33 |
| System version | 5.0.5.0 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 TX Emissions conducted on band edge FHSS - BT Classic Basic Rate |
| Information | |

EUT Common Settings BT Classic

| | |
|------------------------------------|-------------------------------------------------------|
| Intermodulation Value N | 3 |
| Image Freq. Low Mid High [MHz] | 0 0 0 |
| Power Class | 1 |
| Power Control | Enhanced |
| Longest Supported Packet Type | DH5 |
| RF Supported | Basic Rate True EDR Pi/4DQPSK True EDR 8DPSK True |
| Testmode | LOOPback |
| Perform Inquiry | Yes |
| EUT BT Address (if Inquiry No) | 0123456789AB |
| Signaling BT Address | BABEBEDADBAD |

Equipment

| |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,B001,1.0.0 |
| Power supply,ROHDE&SCHWARZ,HMP2020,120582,HW50010003/SW2.71 |

Test Parameter

| | |
|------------------------|-------------------------|
| Technology to test | BT Classic Basic rate |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2441 |
| Frequency high to test | False Freq [MHz] 2480 |

Test Parameter

| | |
|--------------------------------------------------|------------------------------------------|
| Auto control enabled power supply Climatic Box | Yes No |
| Additional path loss [dB] | 0 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.MPSIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

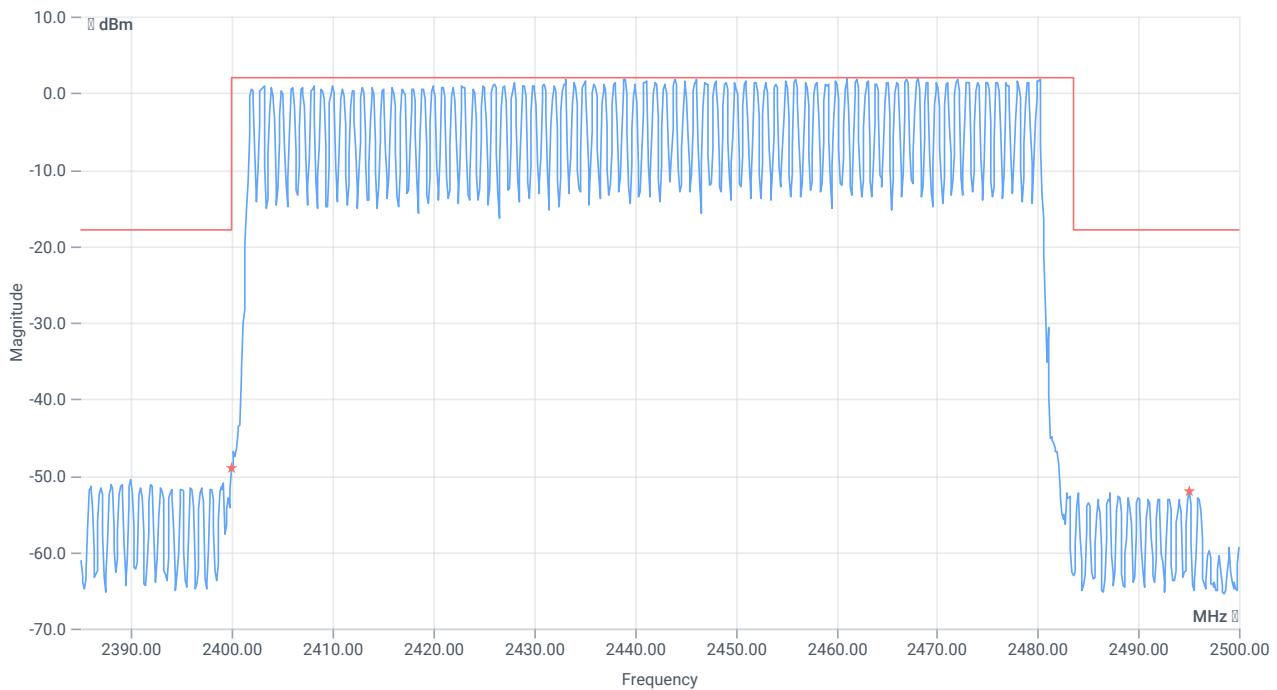
Test at TX hopping MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 2.62 | dBm | INFO |
| Ref. frequency | -- | -- | 2469.070 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.62 9.13 15 |
| Start [MHz] Stop [MHz] | 2385.000 2500.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 30 1800 1001 SWE |



TX emissions on band edge

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| Max peak lower Band | -- | -17.94 | -49.08 | dBm | PASS |
| Max peak upper Band | -- | -17.94 | -52.11 | dBm | PASS |

Verdict

FCC 15.247 # TX Emissions on band edge FCC ~ BT Classic EDR Pi/4DQPSK

References

| | |
|-----------------------------------|--------------------------------------------------------------------------------|
| TC start | 08.05.2024 10:22:24 |
| Ambit temp [°C] humidity [rel%] | 28.7 33 |
| System version | 5.0.5.0 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 TX Emissions conducted on band edge FHSS - BT Classic EDR Pi/4DQPSK |
| Information | |

EUT Common Settings BT Classic

| | |
|------------------------------------|-------------------------------------------------------|
| Intermodulation Value N | 3 |
| Image Freq. Low Mid High [MHz] | 0 0 0 |
| Power Class | 1 |
| Power Control | Enhanced |
| Longest Supported Packet Type | DH5 |
| RF Supported | Basic Rate True EDR Pi/4DQPSK True EDR 8DPSK True |
| Testmode | LOOPback |
| Perform Inquiry | Yes |
| EUT BT Address (if Inquiry No) | 0123456789AB |
| Signaling BT Address | BABEBEDADBAD |

Equipment

| |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,B001,1.0.0 |
| Power supply,ROHDE&SCHWARZ,HMP2020,120582,HW50010003/SW2.71 |

Test Parameter

| | |
|------------------------|--------------------------|
| Technology to test | BT Classic EDR Pi/4DQPSK |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2441 |
| Frequency high to test | False Freq [MHz] 2480 |

Test Parameter

| | |
|--------------------------------------------------|-------------------------------------------|
| Auto control enabled power supply Climatic Box | Yes No |
| Additional path loss [dB] | 0 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

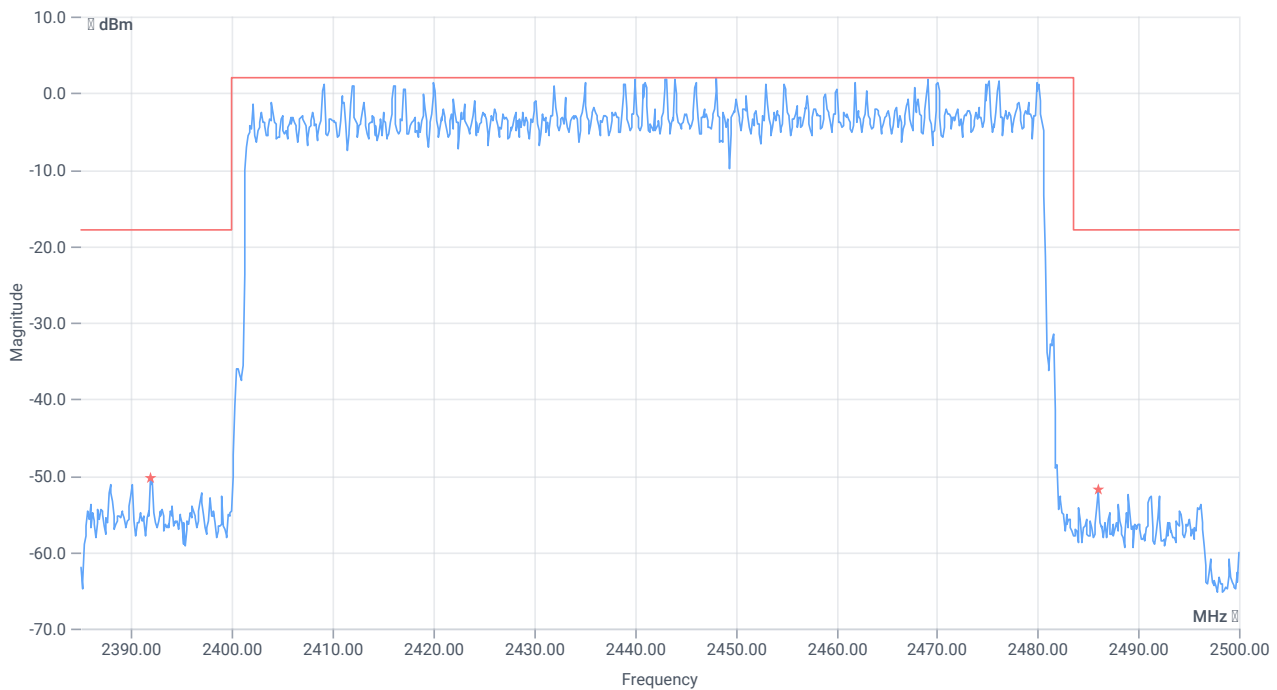
Test at TX hopping MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 2.47 | dBm | INFO |
| Ref. frequency | -- | -- | 2467.170 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.47 9.13 15 |
| Start [MHz] Stop [MHz] | 2385.000 2500.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 30 1800 1001 SWE |



TX emissions on band edge

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| Max peak lower Band | -- | -17.97 | -50.33 | dBm | PASS |
| Max peak upper Band | -- | -17.97 | -51.83 | dBm | PASS |

Verdict

FCC 15.247 # TX Emissions on band edge FCC ~ BT Classic EDR 8DPSK

References

| | |
|-----------------------------------|----------------------------------------------------------------------------|
| TC start | 08.05.2024 10:24:06 |
| Ambit temp [°C] humidity [rel%] | 28.7 33 |
| System version | 5.0.5.0 |
| Standard Version | FCC 15.247 NI |
| Method | |
| Description | FCC 15.247 TX Emissions conducted on band edge FHSS - BT Classic EDR 8DPSK |
| Information | |

EUT Common Settings BT Classic

| | |
|------------------------------------|-------------------------------------------------------|
| Intermodulation Value N | 3 |
| Image Freq. Low Mid High [MHz] | 0 0 0 |
| Power Class | 1 |
| Power Control | Enhanced |
| Longest Supported Packet Type | DH5 |
| RF Supported | Basic Rate True EDR Pi/4DQPSK True EDR 8DPSK True |
| Testmode | LOOPback |
| Perform Inquiry | Yes |
| EUT BT Address (if Inquiry No) | 0123456789AB |
| Signaling BT Address | BABEBEDADBAD |

Equipment

| |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,B001,1.0.0 |
| Power supply,ROHDE&SCHWARZ,HMP2020,120582,HW50010003/SW2.71 |

Test Parameter

| | |
|------------------------|-------------------------|
| Technology to test | BT Classic EDR 8DPSK |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | False Freq [MHz] 2402 |
| Frequency mid to test | False Freq [MHz] 2441 |
| Frequency high to test | False Freq [MHz] 2480 |

Test Parameter

| | |
|--------------------------------------------------|-------------------------------------------|
| Auto control enabled power supply Climatic Box | Yes No |
| Additional path loss [dB] | 0 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

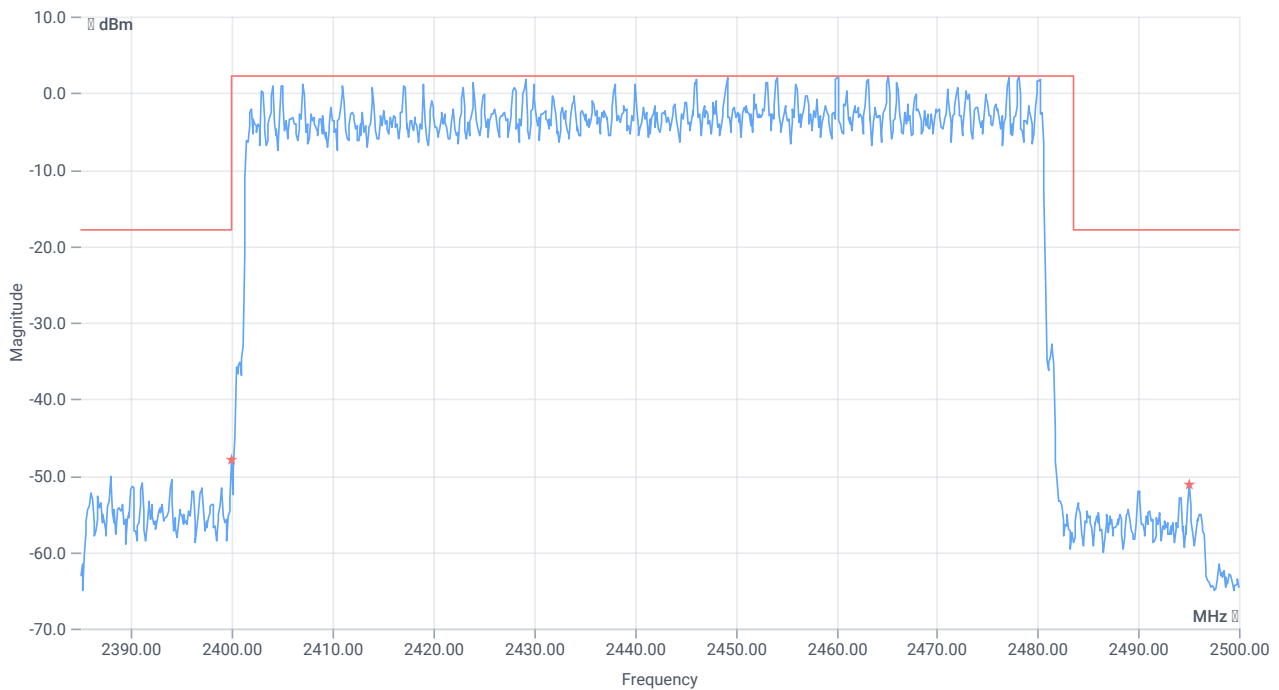
Test at TX hopping MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 2.58 | dBm | INFO |
| Ref. frequency | -- | -- | 2443.000 | MHz | INFO |

READ SA SETTINGS:

| | |
|------------------------------------------------------|------------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 7.58 9.13 15 |
| Start [MHz] Stop [MHz] | 2385.000 2500.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 30 1800 1001 SWE |



TX emissions on band edge

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------|-------------|-------------|----------|------|---------|
| Max peak lower Band | -- | -17.8 | -47.89 | dBm | PASS |
| Max peak upper Band | -- | -17.8 | -51.20 | dBm | PASS |

Verdict

FCC 15.247 # TX spurious conducted 20dBc ~ BT Classic Basic rate

References

| | |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------|
| TC start | 08.05.2024 08:13:51 |
| Ambit temp [°C] humidity [rel%] | 27.9 36 |
| System version | 5.0.5.0 |
| 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 FHSS - BT Classic Basic Rate |
| Information | |

EUT Common Settings BT Classic

| | |
|------------------------------------|-------------------------------------------------------|
| Intermodulation Value N | 3 |
| Image Freq. Low Mid High [MHz] | 0 0 0 |
| Power Class | 1 |
| Power Control | Enhanced |
| Longest Supported Packet Type | DH5 |
| RF Supported | Basic Rate True EDR Pi/4DQPSK True EDR 8DPSK True |
| Testmode | LOOPback |
| Perform Inquiry | Yes |
| EUT BT Address (if Inquiry No) | 0123456789AB |
| Signaling BT Address | BABEBEDADBAD |

Equipment

| |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,B001,1.0.0 |
| Power supply,ROHDE&SCHWARZ,HMP2020,120582,HW50010003/SW2.71 |

Test Parameter

| | |
|--------------------------------------------------|------------------------|
| Technology to test | BT Classic Basic rate |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2441 |
| Frequency high to test | True Freq [MHz] 2480 |
| Auto control enabled power supply Climatic Box | Yes No |

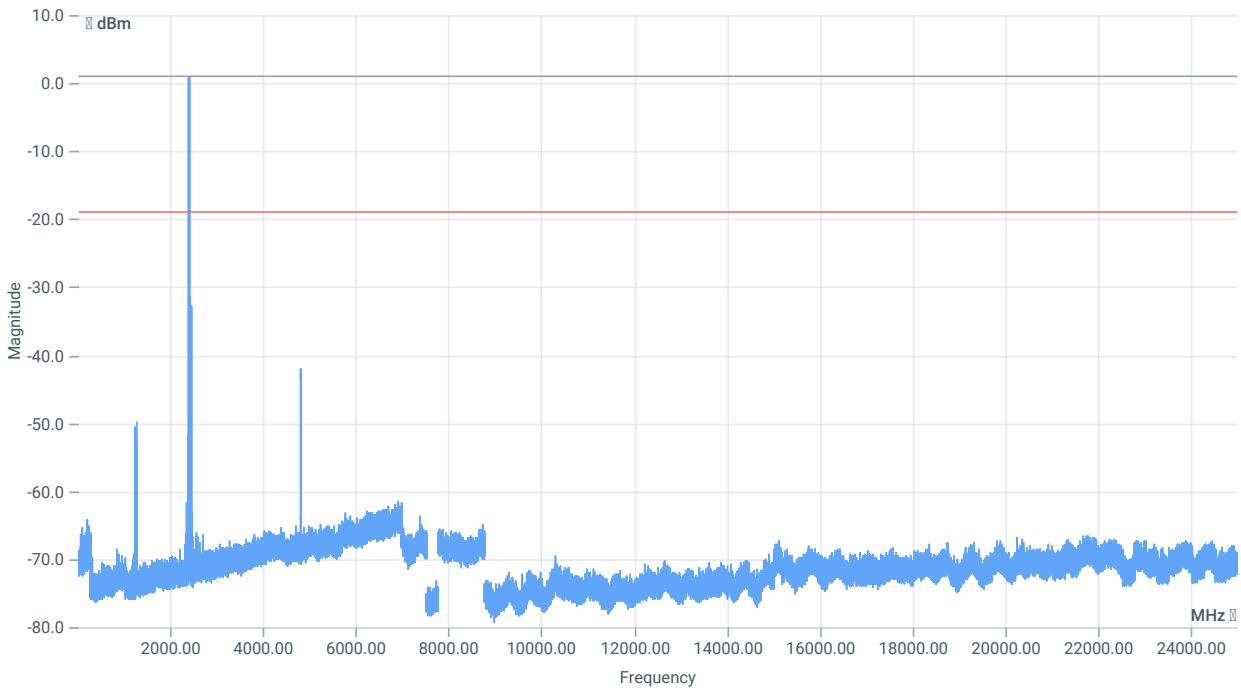
Test Parameter

| | |
|---------------------------|------------------------------------------|
| Additional path loss [dB] | 0 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.MPSIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

Test at TX 2402 MHz

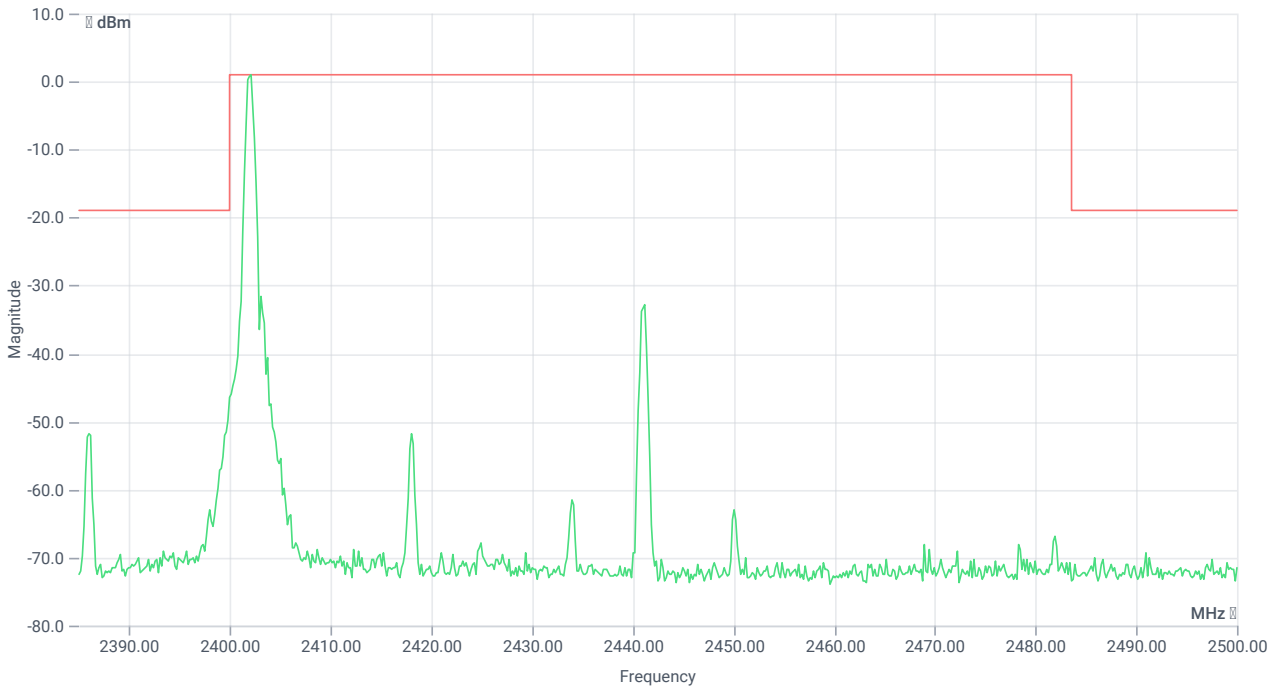
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 1.46 | dBm | INFO |
| Ref. frequency | -- | -- | 2402.100 | MHz | INFO |



READ SA SETTINGS:

| | |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 1.46 17.26 0 |
| Start [MHz] Stop [MHz] | 24780.000 25000.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 1501 SWE |



TX emissions band zoomed

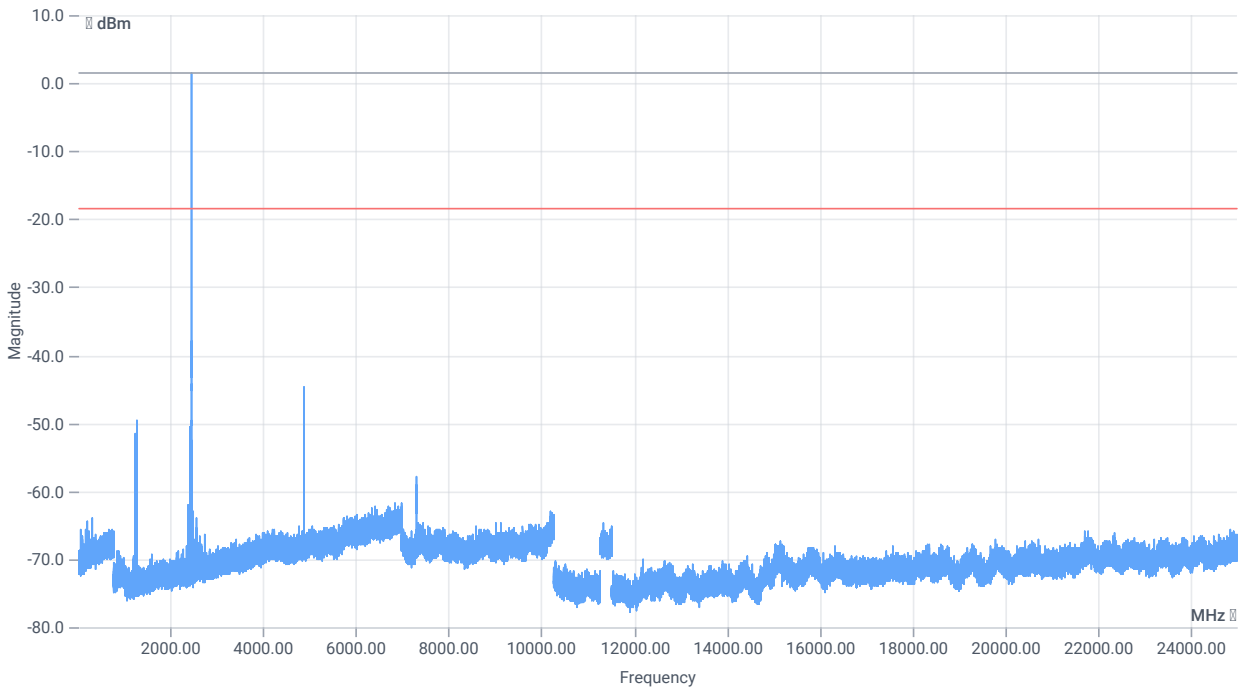
RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2402.17 MHz | -- | -- | 0.98 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 4804.167 MHz | 0 | -- | 23.03 | dB | INFO |

Test at TX 2441 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 2.34 | dBm | INFO |
| Ref. frequency | -- | -- | 2441.100 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 2.34 17.26 5 |
| Start [MHz] Stop [MHz] | 24780.000 25000.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 1501 SWE |



TX emissions band zoomed

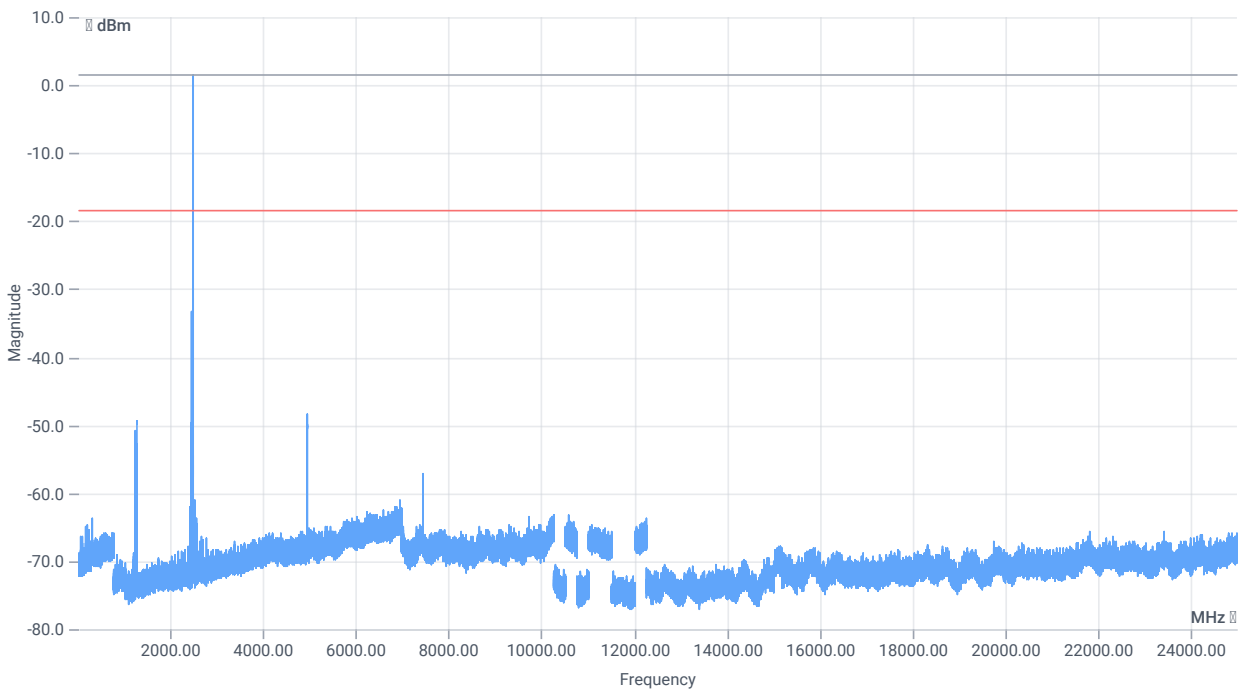
RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2441.00 MHz | -- | -- | 1.60 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 4881.667 MHz | 0 | -- | 26.33 | dB | INFO |

Test at TX 2480 MHz

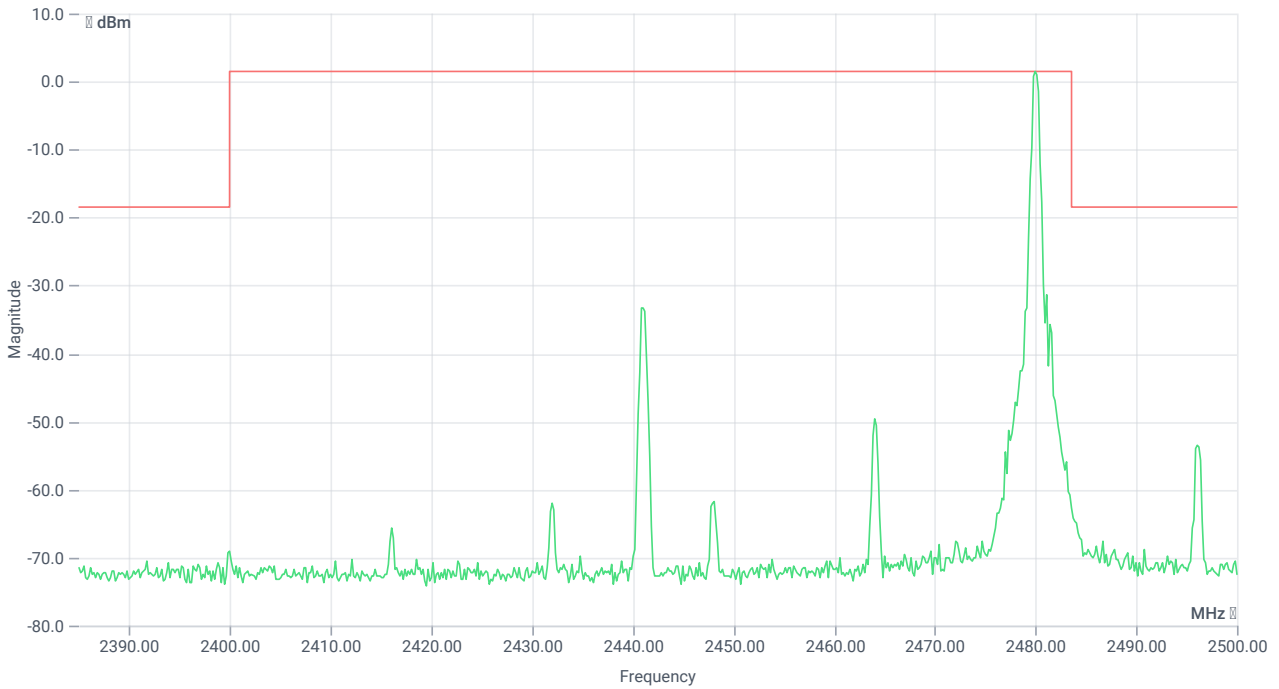
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 2.45 | dBm | INFO |
| Ref. frequency | -- | -- | 2479.900 | MHz | INFO |



READ SA SETTINGS:

| | |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 2.45 17.26 5 |
| Start [MHz] Stop [MHz] | 24780.000 25000.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 1501 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2480.00 MHz | -- | -- | 1.51 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 4960.333 MHz | 0 | -- | 29.96 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 20dBc ~ BT Classic EDR Pi/4DQPSK

References

| | |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------|
| TC start | 08.05.2024 08:57:45 |
| Ambit temp [°C] humidity [rel%] | 28.1 34 |
| System version | 5.0.5.0 |
| 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 FHSS - BT Classic EDR Pi/4DQPSK |
| Information | |

EUT Common Settings BT Classic

| | |
|------------------------------------|-------------------------------------------------------|
| Intermodulation Value N | 3 |
| Image Freq. Low Mid High [MHz] | 0 0 0 |
| Power Class | 1 |
| Power Control | Enhanced |
| Longest Supported Packet Type | DH5 |
| RF Supported | Basic Rate True EDR Pi/4DQPSK True EDR 8DPSK True |
| Testmode | LOOPback |
| Perform Inquiry | Yes |
| EUT BT Address (if Inquiry No) | 0123456789AB |
| Signaling BT Address | BABEBEDADBAD |

Equipment

| |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,B001,1.0.0 |
| Power supply,ROHDE&SCHWARZ,HMP2020,120582,HW50010003/SW2.71 |

Test Parameter

| | |
|------------------------|--------------------------|
| Technology to test | BT Classic EDR Pi/4DQPSK |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2441 |
| Frequency high to test | True Freq [MHz] 2480 |

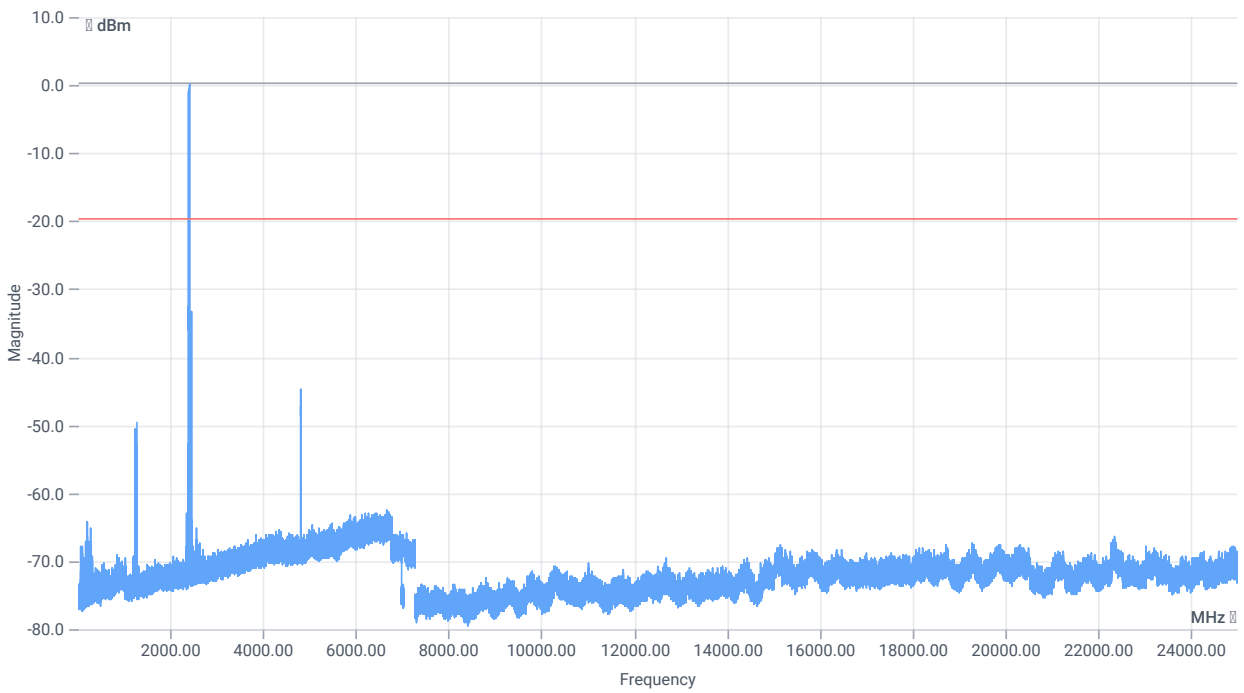
Test Parameter

| | |
|--------------------------------------------------|------------------------------------------|
| Auto control enabled power supply Climatic Box | Yes No |
| Additional path loss [dB] | 0 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.MPSIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

Test at TX 2402 MHz

RESULT: Reference power cond.

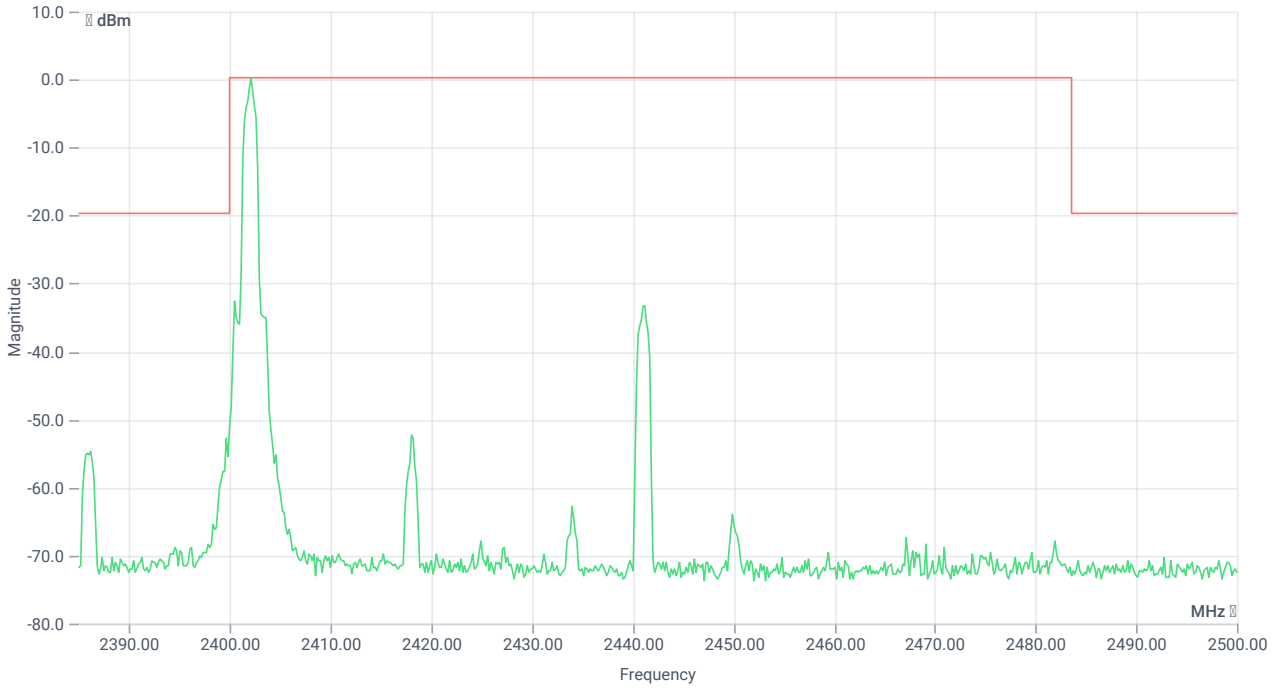
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 1.03 | dBm | INFO |
| Ref. frequency | -- | -- | 2401.900 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 1.03 17.26 0 |
| Start [MHz] Stop [MHz] | 24780.000 25000.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 1501 SWE |



TX emissions band zoomed

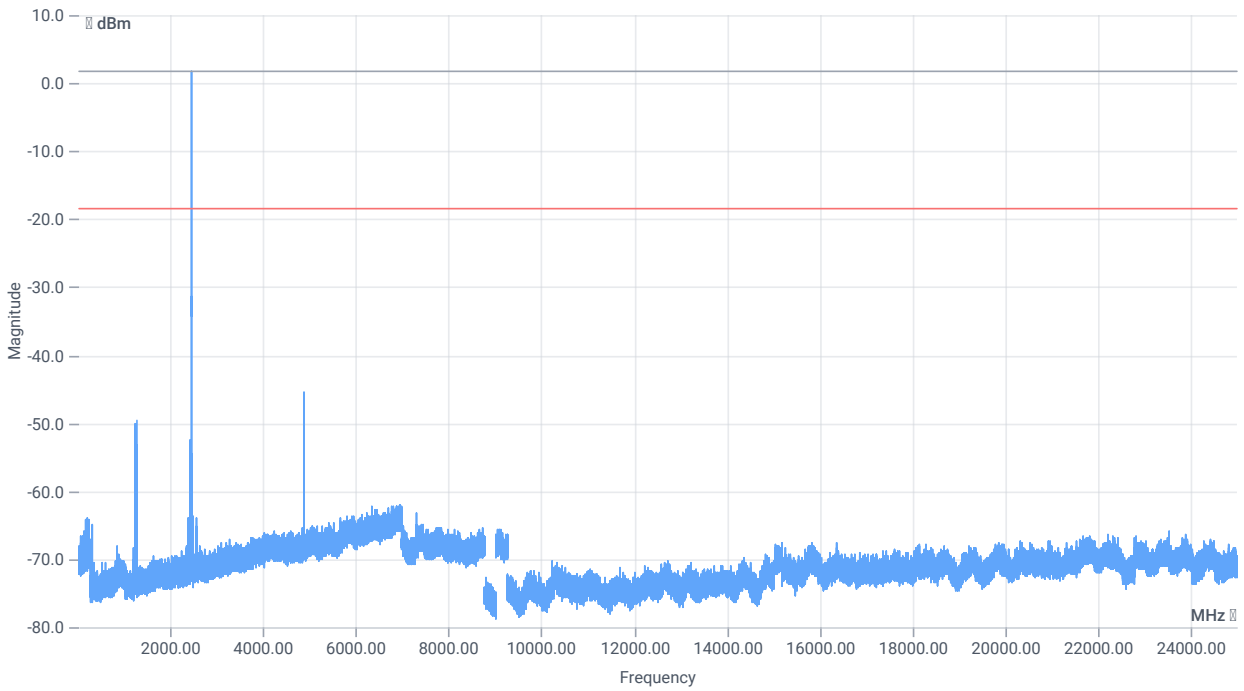
RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2402.17 MHz | -- | -- | 0.27 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 4804.167 MHz | 0 | -- | 25.11 | dB | INFO |

Test at TX 2441 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 1.69 | dBm | INFO |
| Ref. frequency | -- | -- | 2440.800 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 1.69 17.26 0 |
| Start [MHz] Stop [MHz] | 24780.000 25000.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 1501 SWE |



TX emissions band zoomed

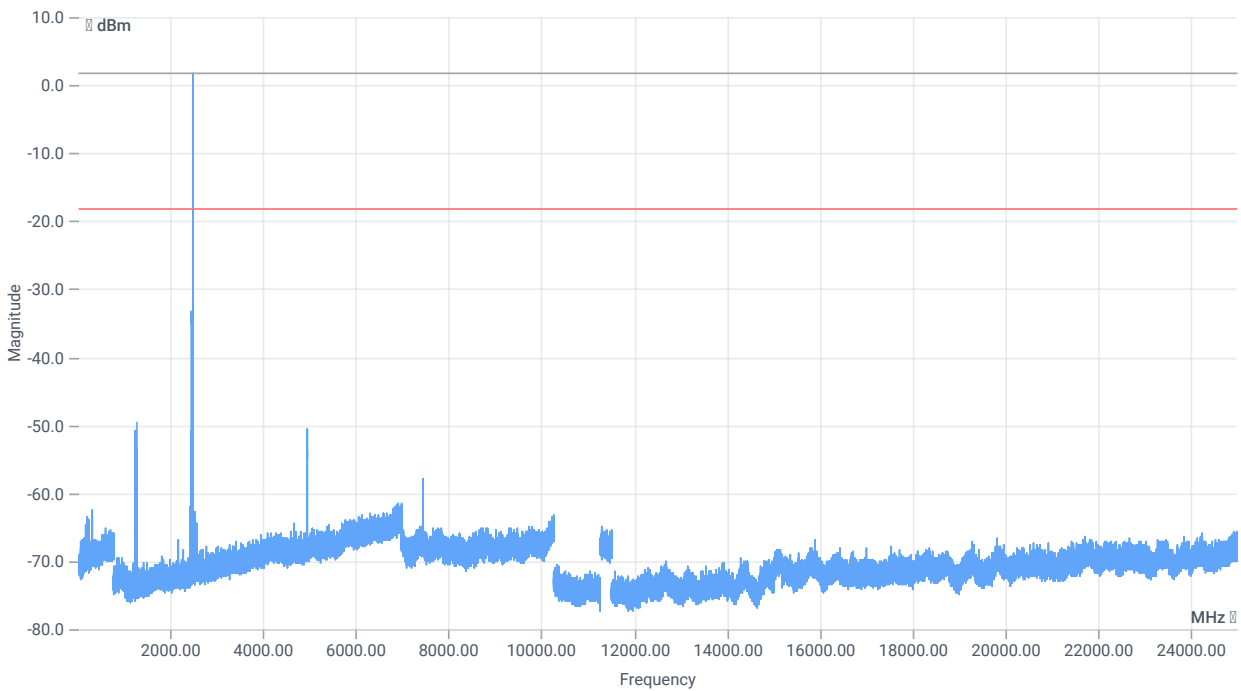
RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|---------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2441.00 MHz | -- | -- | 1.61 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 4882 MHz | 0 | -- | 26.95 | dB | INFO |

Test at TX 2480 MHz

RESULT: Reference power cond.

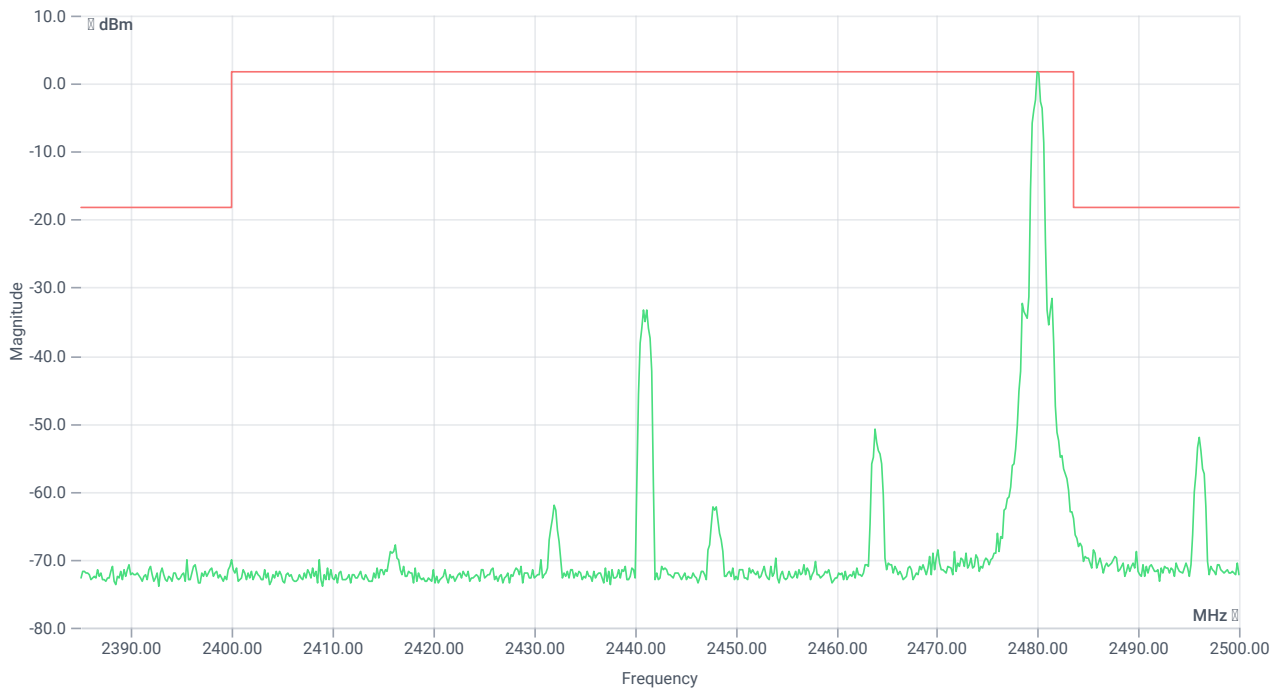
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 2.32 | dBm | INFO |
| Ref. frequency | -- | -- | 2441.140 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 2.32 17.26 5 |
| Start [MHz] Stop [MHz] | 24780.000 25000.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 1501 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2480.00 MHz | -- | -- | 1.82 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 1279.833 MHz | 0 | -- | 31.44 | dB | INFO |

Verdict

PASS

FCC 15.247 # TX spurious conducted 20dBc ~ BT Classic EDR 8DPSK

References

| | |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------|
| TC start | 08.05.2024 09:41:49 |
| Ambit temp [°C] humidity [rel%] | 28.3 33 |
| System version | 5.0.5.0 |
| 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 FHSS - BT Classic EDR 8DPSK |
| Information | |

EUT Common Settings BT Classic

| | |
|------------------------------------|-------------------------------------------------------|
| Intermodulation Value N | 3 |
| Image Freq. Low Mid High [MHz] | 0 0 0 |
| Power Class | 1 |
| Power Control | Enhanced |
| Longest Supported Packet Type | DH5 |
| RF Supported | Basic Rate True EDR Pi/4DQPSK True EDR 8DPSK True |
| Testmode | LOOPback |
| Perform Inquiry | Yes |
| EUT BT Address (if Inquiry No) | 0123456789AB |
| Signaling BT Address | BABEBEDADBAD |

Equipment

| |
|---------------------------------------------------------------|
| Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103809,3.70 |
| Signaling unit,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190 |
| Switch matrix,cetecom advanced GmbH,USM,B001,1.0.0 |
| Power supply,ROHDE&SCHWARZ,HMP2020,120582,HW50010003/SW2.71 |

Test Parameter

| | |
|--------------------------------------------------|------------------------|
| Technology to test | BT Classic EDR 8DPSK |
| EUT port | EUT1 |
| Temperature | nom |
| Voltage | nom |
| Frequency low to test | True Freq [MHz] 2402 |
| Frequency mid to test | True Freq [MHz] 2441 |
| Frequency high to test | True Freq [MHz] 2480 |
| Auto control enabled power supply Climatic Box | Yes No |

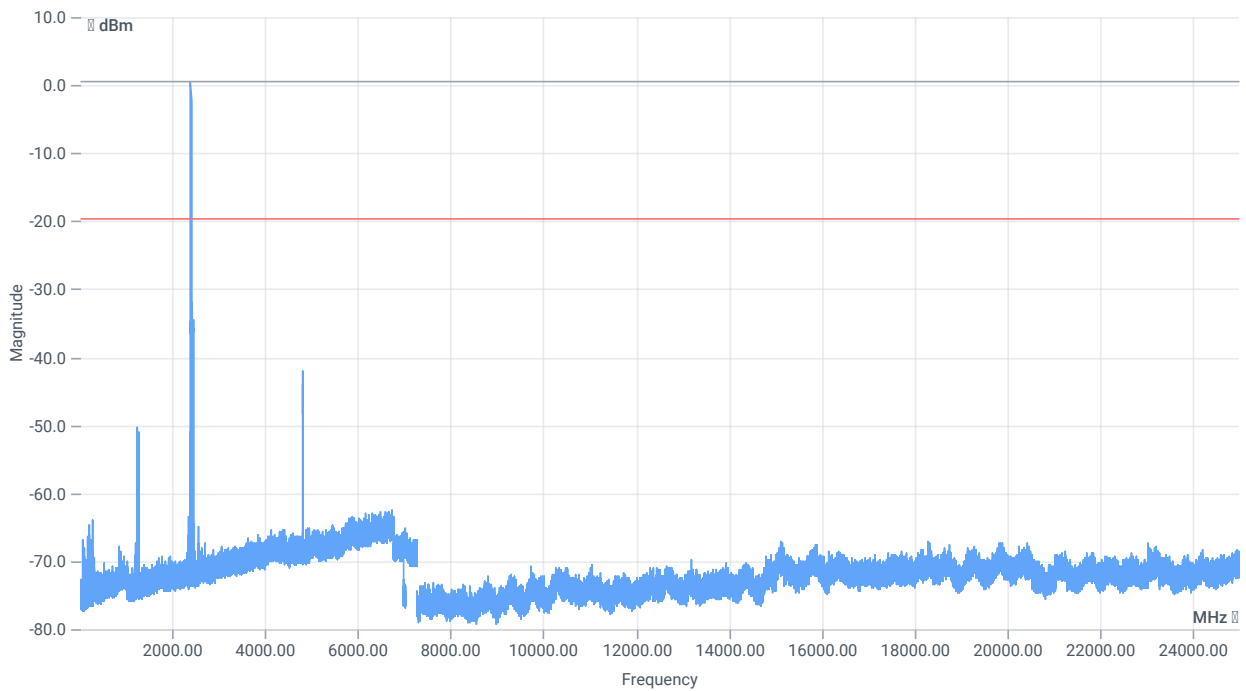
Test Parameter

| | |
|---------------------------|------------------------------------------|
| Additional path loss [dB] | 0 |
| Full path type | EUT_SA_GEN_SIG |
| Full path name | EUT1.MPSIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/ |
| Switch bits | 00010001:00010001:00000000:00000001 |

Test at TX 2402 MHz

RESULT: Reference power cond.

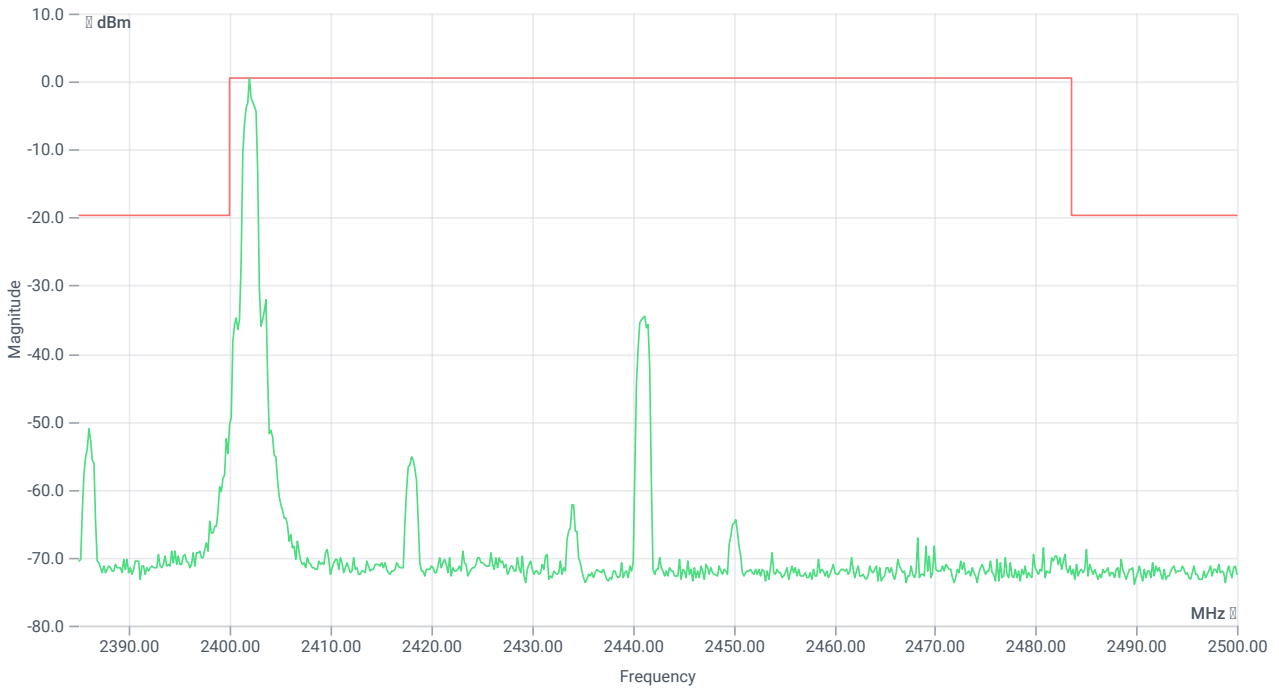
| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 0.95 | dBm | INFO |
| Ref. frequency | -- | -- | 2402.000 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 0.95 17.26 0 |
| Start [MHz] Stop [MHz] | 24780.000 25000.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 1501 SWE |



TX emissions band zoomed

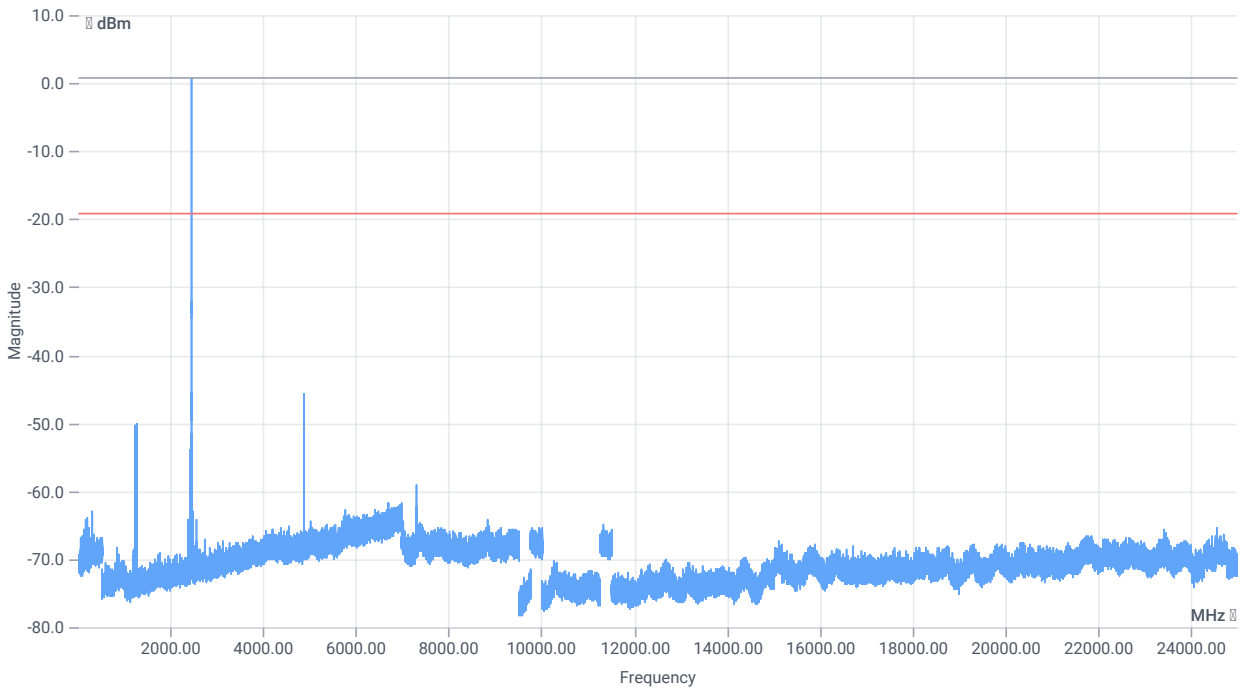
RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2402.00 MHz | -- | -- | 0.42 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 4804.333 MHz | 0 | -- | 22.45 | dB | INFO |

Test at TX 2441 MHz

RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 2.12 | dBm | INFO |
| Ref. frequency | -- | -- | 2440.900 | MHz | INFO |



TX emissions

READ SA SETTINGS:

| | |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 2.12 17.26 0 |
| Start [MHz] Stop [MHz] | 24780.000 25000.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 1501 SWE |



TX emissions band zoomed

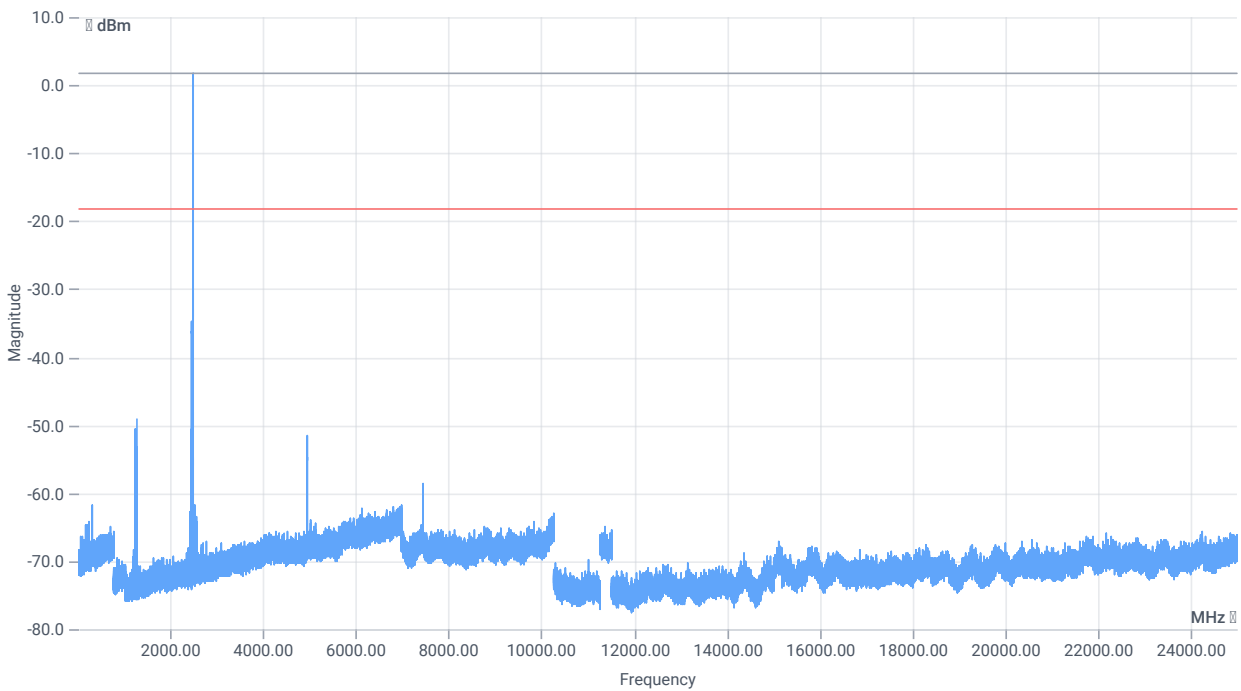
RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2441.00 MHz | -- | -- | 0.84 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 30 MHz | 0 | -- | -129.71 | dB | INFO |

Test at TX 2480 MHz

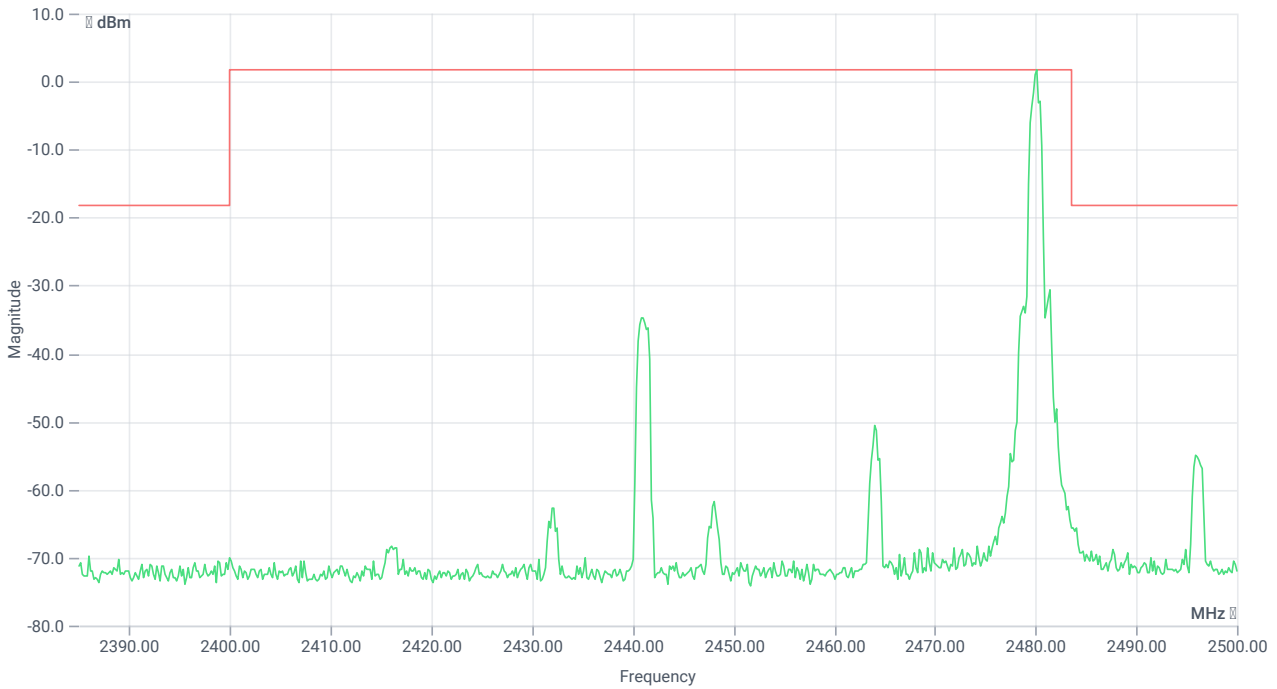
RESULT: Reference power cond.

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------|-------------|-------------|----------|------|---------|
| Ref. power 1MHz/1MHz cond. | -- | -- | 2.31 | dBm | INFO |
| Ref. frequency | -- | -- | 2441.140 | MHz | INFO |



READ SA SETTINGS:

| | |
|------------------------------------------------------|-----------------------|
| RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB] | 2.31 17.26 5 |
| Start [MHz] Stop [MHz] | 24780.000 25000.000 |
| RBW [MHz] VBW [MHz] | 0.100000 0.300000 |
| Detector TraceMode | POS MAXH |
| Sweep: time [ms] count points per Section type | 200 25 1501 SWE |



TX emissions band zoomed

RESULT

| DESCRIPTION | LOWER LIMIT | UPPER LIMIT | MEASURED | UNIT | VERDICT |
|-------------------------------------|-------------|-------------|----------|------|---------|
| Reference @ 2480.17 MHz | -- | -- | 1.84 | dBm | INFO |
| No peaks detected | -- | -- | | | PASS |
| Lowest margin to limit 1279.833 MHz | 0 | -- | 31.04 | dB | INFO |

Verdict

PASS

- END OF DOCUMENT -