



6 NUMBER OF HOPPING FREQUENCY

6.1 LIMIT

| FCC Part15, Subpart C (15.247) | | |
|---|--|--|
| Section Test Item | | |
| 15.247(a)(1)(iii) Number of Hopping Frequency | | |

6.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW=100 kHz, VBW=300 kHz, Sweep time = Auto.

| Spectrum Parameters | Setting | |
|---------------------|-----------------------------|--|
| Attenuation | Auto | |
| Span Frequency | > Operating Frequency Range | |
| RBW | 100kHz | |
| VBW | 300kHz | |
| Detector | Peak | |
| Trace | Max Hold | |
| Sweep Time | Auto | |

6.3 MEASUREMENT INSTRUMENTS LIST

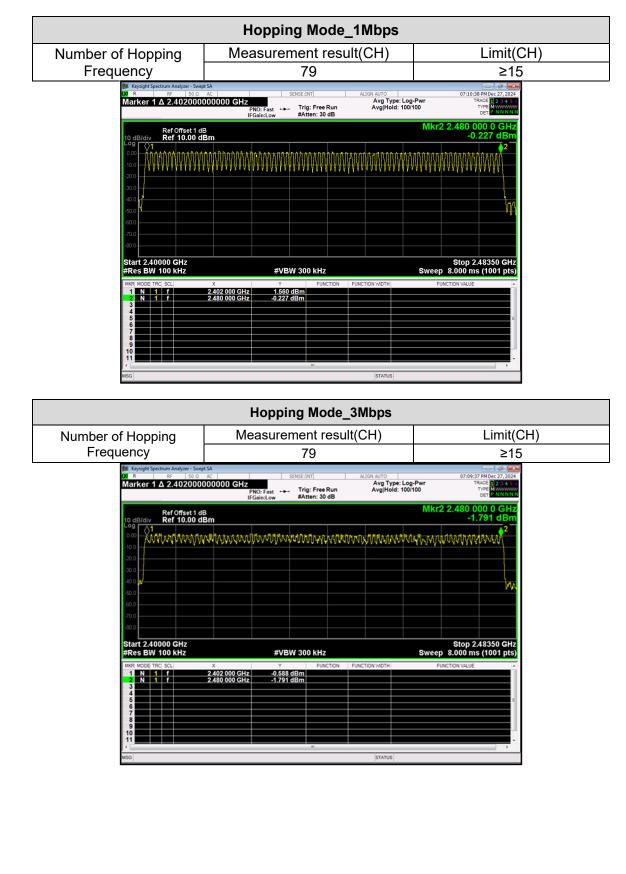
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|---------------|-------------|------------|------------------|
| 1 | Spectrum analyzer | KEYSIGHT | N9010A | MY55150427 | 2025/05/22 |
| 2 | Attenuator | Mini-Circuits | BW-S10W2 | 101109 | N/A |
| 3 | RF Cable | Mi-cable | C10-01-01-1 | 100309 | N/A |

6.4 TEST SETUP

| EUT | SPECTRUM |
|-----|----------|
| | ANALYZER |

6.5 EUT OPERATION CONDITIONS







7 AVERAGE TIME OF OCCUPANCY

7.1 LIMIT

| FCC Part15, Subpart C (15.247) | | | |
|--------------------------------|------------------------------|--------|--|
| Section Test Item Limit | | | |
| 15.247(a)(1)(iii) | Average Time of Occupancy | 0.4sec | |

7.2 TEST PROCEDURE AND SETTING

a. The transmitter output (antenna port) was connected to the spectrum analyzer

- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses
- d. Sweep Time is more than once pulse time
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span
- f. Measure the maximum time duration of one single pulse
- g. Set the EUT for DH1, DH3 and DH5 packet transmitting
- h. Measure the maximum time duration of one single pulse
- i. DH1 Packet permit maximum 1600 / 79 /2 = 10.12 hops per second in each channel (1 time slot TX, 1 time slot RX).So, the dwell time is the time duration of the pulse times 10.12 x 31.6 = 320 within 31.6 seconds
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots TX, 1 time slot RX).So, the dwell time is the time duration of the pulse times 5.06 x 31.6 = 160 within 31.6 seconds
- k. DH5 Packet permit maximum 1600/ 79 / 6 = 3.37 hops per second in each channel (5 time slots TX, 1 time slot RX).So, the dwell time is the time duration of the pulse times 3.37 x 31.6 = 106.6 within 31.6 seconds

7.3 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|---------------|-------------|------------|------------------|
| 1 | Spectrum analyzer | KEYSIGHT | N9010A | MY55150427 | 2025/05/22 |
| 2 | Attenuator | Mini-Circuits | BW-S10W2 | 101109 | N/A |
| 3 | RF Cable | Mi-cable | C10-01-01-1 | 100309 | N/A |

7.4 TEST SETUP

| EUT | SPECTRUM |
|-----|----------|
| | ANALYZER |

7.5 EUT OPERATION CONDITIONS

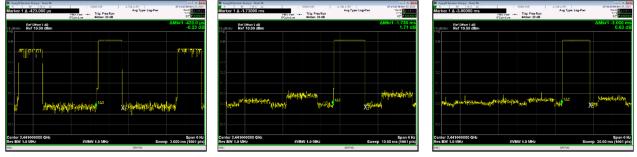


| | TX Mode_1Mbps | | | | |
|------|----------------------------|--------------------|--------------------|---------------|--|
| Mode | Channel Frequency (MHz) | Pulse Time (ms) | Dwell Time (ms) | Limit (ms) | |
| DH1 | 2441 | 0.423 | 135.4 | 400 | |
| DH3 | 2441 | 1.730 | 276.8 | 400 | |
| DH5 | 2441 | 3.000 | 319.8 | 400 | |

DH1



DH5



| TX Mode_3Mbps | | | | |
|---------------|----------------------------|--------------------|--------------------|---------------|
| Mode | Channel Frequency (MHz) | Pulse Time (ms) | Dwell Time (ms) | Limit (ms) |
| DH1 | 2441 | 0.420 | 134.4 | 400 |
| DH3 | 2441 | 1.740 | 278.4 | 400 |
| DH5 | 2441 | 3.060 | 326.2 | 400 |

2441MHzDH1

2441MHzDH3







8 HOPPING CHANNEL SEPARATION MEASUREMENT

8.1 LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

8.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW Sweep = Auto Detector function = Peak Trace = Max Hold

| Spectrum Parameter | Setting | |
|--------------------|---|--|
| Attenuation | Auto | |
| Span Frequency | > Measurement Bandwidth or Channel Separation | |
| RBW | 10 kHz | |
| VBW | 30 kHz | |
| Detector | Peak | |
| Trace | Max Hold | |
| Sweep Time | Auto | |

8.3 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|---------------|-------------|------------|------------------|
| 1 | Spectrum analyzer | KEYSIGHT | N9010A | MY55150427 | 2025/05/22 |
| 2 | Attenuator | Mini-Circuits | BW-S10W2 | 101109 | N/A |
| 3 | RF Cable | Mi-cable | C10-01-01-1 | 100309 | N/A |

8.4 TEST SETUP

| EUT | SPECTRUM |
|-----|----------|
| | ANALYZER |

8.5 EUT OPERATION CONDITIONS

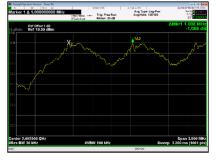


| | TX Mode_1Mbps | | | | | | |
|---------|--------------------|----------------------------|--|--------|--|--|--|
| Channel | Frequency (MHz) | Channel Separation(MHz) | Limit (MHz) | Result | | | |
| CH00 | 2402 | 1.008 | >(25KHz or 2/3*20dB Bandwidth) | PASS | | | |
| CH39 | 2441 | 1.002 | >(25KHz or 2/3*20dB Bandwidth) | PASS | | | |
| CH78 | 2480 | 0.996 | >(25KHz or 2/3 [*] 20dB Bandwidth) | PASS | | | |















| | TX Mode_3Mbps | | | | | | |
|---------|--------------------|----------------------------|-----------------------------------|--------|--|--|--|
| Channel | Frequency (MHz) | Channel Separation(MHz) | Limit (MHz) | Result | | | |
| CH00 | 2402 | 1.002 | >(25KHz or 2/3*20dB Bandwidth) | PASS | | | |
| CH39 | 2441 | 1.008 | >(25KHz or 2/3*20dB Bandwidth) | PASS | | | |
| CH78 | 2480 | 0.993 | >(25KHz or 2/3*20dB Bandwidth) | PASS | | | |





9 BANDWIDTH TEST

9.1 LIMIT

| FCC Part15, Subpart C (15.247) | | | | |
|--------------------------------|--|--|--|--|
| Section Test Item | | | | |
| 15.247(a)(1) Bandwidth | | | | |

9.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 30 kHz, VBW=100 kHz, Sweep Time = Auto.

| Spectrum Parameter | Setting |
|--------------------|-------------------------|
| Attenuation | Auto |
| Span Frequency | > Measurement Bandwidth |
| RBW | 30kHz |
| VBW | 100kHz |
| Detector | Peak |
| Trace | Max Hold |
| Sweep Time | Auto |

9.3 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|---------------|-------------|------------|------------------|
| 1 | Spectrum analyzer | KEYSIGHT | N9010A | MY55150427 | 2025/05/22 |
| 2 | Attenuator | Mini-Circuits | BW-S10W2 | 101109 | N/A |
| 3 | RF Cable | Mi-cable | C10-01-01-1 | 100309 | N/A |

9.4 TEST SETUP

| EUT | SPECTRUM |
|-----|----------|
| | ANALYZER |

9.5 EUT OPERATION CONDITIONS



| TX Mode_1Mbps | | | | | | |
|---------------|-----------|----------------|----------------------------|--------|--|--|
| Channel | Frequency | 20dB Bandwidth | 99 % Emission Bandwidth | Result | | |
| | (MHz) | (MHz) | (MHz) | | | |
| CH00 | 2402 | 0.929 | 0.8694 | PASS | | |
| CH39 | 2441 | 0.933 | 0.8725 | PASS | | |
| CH78 | 2480 | 0.877 | 0.8664 | PASS | | |

2402MHz

2441MHz

2480MHz







Report No.: 24EFSS11090 02901

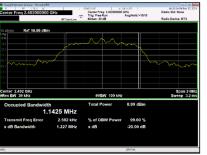


| TX Mode_3Mbps | | | | | | |
|---------------|-----------|----------------|----------------------------|--------|--|--|
| Channel | Frequency | 20dB Bandwidth | 99 % Emission Bandwidth | Result | | |
| | (MHz) | (MHz) | (MHz) | | | |
| CH00 | 2402 | 1.227 | 1.1425 | PASS | | |
| CH39 | 2441 | 1.226 | 1.1424 | PASS | | |
| CH78 | 2480 | 1.229 | 1.1413 | PASS | | |

2402MHz

2441MHz

2480MHz



| Center Freg 2,441000000 | 011- | Center Freg: 2.441000000 | IN AUTO | 06-22-13 F# Dec 27. Radio Std: None |
|-------------------------|------------------|---|----------------|--|
| Center Freq 2.44100000 | | Trig: Free Run | AvgHold:>10/10 | |
| | Al CoincLow | #Atten: 30 dB | | Radio Device: BTS |
| | | | | |
| 10 dB/dly Ref 10.00 dBm | | | | |
| Log | | | | |
| | | $\Lambda \Lambda \Lambda$ | | |
| | 1 m m | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | ~~~ | |
| | | | | |
| | | | | |
| | ~ J ⁴ | | - M | 5. at 1 . |
| (D) (C) (C) (C) (C) | | | | ~ ~ ~ |
| | | | | |
| | | | | |
| | | | | |
| Center 2.441 GHz | | | | |
| enter 2/441 GHz | | ØVBW 100 kHz | | Span 3 fé Sweep 3.2 |
| ekes BH 30 khz | | WYDIN TVV MIZ | | oneep 5.2 |
| Occupied Bandwidt | h | Total Power | 8.47 dBm | |
| 1 - | 1424 MHz | | | |
| | | | | |
| Transmit Freq Error | 1.631 kHz | % of OBW Power | 99.00 % | |
| x dB Bandwidth | 1.226 MHz | x dB | -20.00 dB | |
| | | | | |
| | | | | |
| | | | | |

| Kopist Spearce Analyse Occupie 844 R 85 50.0 40 | AfGainLow | Center Freq: 2.480000000 | N A/R0 GHz Avg(Hold:>10/10 | 06/20/20 FM Dec 27, 20 Radio Std: None Radio Device: BTS |
|--|---------------|--------------------------|----------------------------------|--|
| 10 dB/div Ref 10.00 dBm | | | | |
| 10.0 | | Ann. | | |
| 30 | | · · · | | |
| a) a) | ~ | | | m |
| | | | | |
| Center 2.48 GHz IRes BW 30 kHz | | #VBW 100 kHz | | Span 3 Mi Sweep 3.2 m |
| Occupied Bandwidt | h 1413 MHz | Total Power | 8.10 dBm | |
| Transmit Freg Error | 200 Hz | % of OBW Power | 99.00 % | |
| x dB Bandwidth | 1.229 MHz | x dB | -20.00 dB | |
| | | | | |



10 MAXIMUM OUTPUT POWER

10.1 LIMIT

| FCC Part15 , Subpart C (15.247) | | | | | |
|--|--|--|--|--|--|
| Section Test Item Limit | | | | | |
| 15.247(a)(1) Maximum Output Power 0.125Watt or 21dBm | | | | | |

Note:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB band width of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

10.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 1MHz/3MHz, VBW= 1MHz/3MHz, Sweep time = Auto.

10.3 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|---------------|-------------|------------|------------------|
| 1 | Spectrum analyzer | KEYSIGHT | N9010A | MY55150427 | 2025/05/22 |
| 2 | Attenuator | Mini-Circuits | BW-S10W2 | 101109 | N/A |
| 3 | RF Cable | Mi-cable | C10-01-01-1 | 100309 | N/A |

10.4 TEST SETUP

| EUT | SPECTRUM |
|-----|----------|
| | ANALYZER |

10.5 EUT OPERATION CONDITIONS



| | TX Mode_1Mbps | | | | | | | | | |
|---------|---------------|------------------------|----------|--------|--|--|--|--|--|--|
| Channel | Frequency | Frequency Output Power | | Deput | | | | | | |
| Channel | (MHz) | (dBm) | (W) | Result | | | | | | |
| CH00 | 2402 | 2.147 | 0.001639 | PASS | | | | | | |
| CH39 | 2441 | 1.732 | 0.001490 | PASS | | | | | | |
| CH78 | 2480 | 1.236 | 0.001329 | PASS | | | | | | |
| Limit | 21dBm /0.125W | | | | | | | | | |

CH00

CH39

CH78

| 🗱 Keysight Spectrum Analyse: Seept SA | | | Koysight Spectrum Analyzer - Swept SA | | | | Koysight Spectrum Analyses - Sengt SA | | |
|--|----------------|---|--|---|---|-----------------------------|--|--------------|---|
| Marker 1 2 40100100000 OHz | Trig: Free Run | Ang Type: Log-Pwr Trikle 17, 3214 Ang Type: Log-Pwr Trikle 17, 3214 Ang Hold: 100'100 Trift | Marker 1 2.441051000000 GH | 2 PRE Liver Trig: Free Run If Calinizon #Atten: 30 dB | AUSH A/TO 00504 Avg Type: Log-Par Avg/Hold: 100/100 | CL FM Dec 27, 2024 TRACE | Marker 1 2.479835000000 GH: | | A 308 A/10 00 00 %1 Filder 27, 3524 Avg Type: Log-Pwr AvgHold: 100/100 00 00 00 |
| Ref Offset 1 dB | | Mkr1 2.401 901 GHz 2.147 dBm | Ref Offset 1 dB | | Mkr1 2.44 | 1 051 GHz 1.732 dBm | Ref Offset 1 dB | | Mkr1 2.479 835 GHz 1.236 dBm |
| 0xx | | | 0.00 | | | | 0.00 | ↓ 1 | |
| -113 | | | -13.2 | | | | | | |
| -210 | | | -23.2 | | | | | | |
| 20.0 | | | 20.0 | | | | | | |
| -(1.) | | | -0.1 | | | | | | |
| -63.5 | | | -63.0 | | | | | | |
| ຄວ | | | c.c. | | | | | | |
| 213 | | | 311 | | | | | | |
| | | | | | | | | | |
| Center 2.402000 GHz #Res BW 3.0 MHz | #VBW 8.0 MHz | Span 3.000 MHz Sweep 1.000 ms (1001 pts) | Center 2.441000 GHz #Res BW 3.0 MHz | #VBW 8.0 MHz | Sweep 1.000 n | ns (1001 pts) | Center 2.480000 GHz #Res BW 3.0 MHz | #VBW 8.0 MHz | Span 3.000 MHz Sweep 1.000 ms (1001 pts) |
| 456 | | 57,47,05 | ¥56 | | 80708 | | V56 | | 57,4705 |



| | TX Mode_2Mbps | | | | | | | | |
|---------|---------------|------------------------|----------|--------|--|--|--|--|--|
| Channel | Frequency | Frequency Output Power | | Result | | | | | |
| Channel | (MHz) | (dBm) | (W) | Result | | | | | |
| CH00 | 2402 | 2.723 | 0.001872 | PASS | | | | | |
| CH39 | 2441 | 2.290 | 0.001694 | PASS | | | | | |
| CH78 | 2480 | 1.742 | 0.001493 | PASS | | | | | |
| Limit | 21dBm /0.125W | | | | | | | | |

CH00

CH39

CH78

| III. Kovight Spectrame Analysis: Securi SA. 38 60 56.0 | PRC: Level -+- Trig: Free Run #Atten: 30 dB | A.308 A/TO Avg Type: Log-Pwr Avg/Hold: 100100 | 05 56 15 PM doc 27, 2024 19428 1 2 PM doc 27, 2024 19428 1 2 PM doc 27, 2024 | | 15putum Analysis - Senai SA 84 50 0 42 1 2.441051000000 GHz | PMELTand Trig: Free Run #Atten: 30 dB | A.35H A/TO Avg Type: Log-Pwr Avg/Hold: 100100 | 66.00.00 Fireber 27, 2024 | Kovijit Spedice Anapur - Seet Sk. R | Hz PRC: Levi Trig: Free Run If Guintur EAtter: 20 48 | A.308 A/10 Avg Type: Log-Pwr AvgHold: 100100 | 66.00.24 FM Dec 27, 2024 194.00 194.00 194.00 194.00 194.00 194.00 |
|--|--|---|--|----------------|---|--|---|---|--|--|--|--|
| Ref Offset 1 dB | | N | lkr1 2.401 883 GHz 2.723 dBm | 10 elludi | Ref Offset 1 dB Ref 10.00 dBm | | | Mkr1 2.441 051 GHz 2.290 dBm | Ref Offset 1 dB | | | 1.742 dBm |
| 0.00 | • · · · • ¹ | | | 0.00 | | • ¹ | | | 0.00 | | | |
| 42.2 | | | | -00 -20 | | | | | 433 | | | |
| -0.1 | | | | 300 411 | | | | | -0.1 | | | |
| 60 | | | | -ex- | | | | | a)) | | | |
| 411 | | | | - 600 - 211 | | | | | -211 | | | |
| 333 Center 2,402000 GHz | | | 6 0.000 IN/- | -83.2 | 2.441000 GHz | | | 0 | -30.2 Center 2,480000 GHz | | | Span 3,009 MHz |
| Center 2402000 GHz #Res BW 3.0 MHz | #VBW 8.0 MHz | STVC STATUS | Span 3.009 MHz p 1.000 ms (1001 pts) | ØRes B | 2.441000 GH2 W 3.0 MH2 | ≢VBW 8.0 MHz | STW | Span 3.000 MHz eep 1.000 ms (1001 pts) | Genter 2480000 GHz #Res BW 3.0 MHz | #VBW 8.0 MHz | STATUS | span 3.000 MHz ep 1.000 ms (1001 pts) |



| | TX Mode_3Mbps | | | | | | | | |
|---------|---------------|--------------|--------------|--------|--|--|--|--|--|
| Channel | Frequency | Output Power | Output Power | Result | | | | | |
| Channer | (MHz) | (dBm) | (W) | Result | | | | | |
| CH00 | 2402 | 3.090 | 0.002037 | PASS | | | | | |
| CH39 | 2441 | 2.612 | 0.001825 | PASS | | | | | |
| CH78 | 2480 | 2.095 | 0.001620 | PASS | | | | | |
| Limit | 21dBm /0.125W | | | | | | | | |

CH00

CH39

CH78

| M Kovight Spectrum Analyse - Snept SA | | | 0 3 00 | 🕅 Koysight Spectrum Analysis - Swept SA | | | 0.0.00 | 🗱 Konight Spectrum Analyses: Sweet SA | | | 0.0.00 |
|---------------------------------------|---------------------------|-------------------|--------------------|---|---------------------------------------|---------------------------------|--|--|---------------------------------------|---------------------------------|--|
| R RF 56.0 AC | SENSE: IVT | | 38 FM Dec 27, 2024 | Marker 1 2.441051000000 G | SENGE (V/T) | A SIN A/TO Avg Type: Log-Pwr | 05:50:11 Pillet 27, 2124 TRACE 10 10 10 | R 84 56.0 AC | SENSE OVT | A.10k A/TO Avg Type: Log-Pwr | 06:10:30 FM Det 27, 2124 TRACE 20, 2124 |
| Marker 1 2.402012000000 GHz | PRO: Feet Trig: Free Run | Avg/Hold: 100/100 | TITLE N DEPENDENCE | Marker 1 2.441051000000 G | | AvgHold: 100/100 | | Marker 1 2.479835000000 | | Avg/Hold: 100/100 | |
| | If GaintLow #Atten: 30 dB | | DOT PLATENCE. | | EGainLow #Atten: 30 dB | | DOT PERSON N | | If GaintLow #Atten: 30 dB | | DOT PLATER N |
| D-100-110 | | Mkr1 2.40 | 2 012 GHz | 0.000.00 | | | Mkr1 2.441 051 GHz | 0.000.00 | | | Mkr1 2.479 835 GHz |
| 10 dB/dle Ref 10.00 dBm | | | .090 dBm | 10 cEJdly Ref Offset 1 dB | | | 2.612 dBm | 10 dB/d/r Ref Offset 1 dB 10 dB/d/r Ref 10.00 dBm | | | 2.095 dBm |
| Log | 1 | | | Log | | | | Log | .1 | | |
| | • | | | | · · · · · · · · · · · · · · · · · · · | | | | • • • • • • • • • • • • • • • • • • • | | |
| 0.00 | | | | 0.00 | | | | 0.00 | | | |
| | | | | | | | | | | | |
| -0.3 | | | | -13.3 | | | | -10.3 | | | |
| | | | | | | | | | | | |
| -23.5 | | | | -22.2 | | | | 42.5 | | | |
| | | | | | | | | | | | |
| 22.2 | | | | 22.2 | | | | 22.2 | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 100 | | | | 0.5 | | | | | | | |
| -2.12 | | | | 33.7 | | | | 3.7 | | | |
| | | | | | | | | | | | |
| 50.5 | | | | 50.0 | | | | 500 | | | |
| | | | | | | | | | | | |
| 211 | | | | 211 | | | | 311 | | | |
| | | | | | | | | | | | |
| -83.5 | | | | -80.0 | | | | -83.5 | | | |
| | | | | | | | | | | | |
| Center 2,402000 GHz | | 0 | n 3.000 MHz | Center 2,441000 GHz | | | Span 3,000 MHz | Center 2,480000 GHz | | | Span 3.000 MHz |
| aRes BW 3.0 MHz | #VBW 8.0 MHz | Sweep 1.000 n | 1 3.000 MHZ | PRes BW 3.0 MHz | #VBW 8.0 MHz | City | tep 1.000 ms (1001 pts) | aRes BW 3.0 MHz | #VBW 8.0 MHz | C | tep 1.000 ms (1001 pts) |
| once bri 5.0 minz | and the act that | storus | is (roor pray | ences Bri 550 mint | 14 D14 0.5 Hitz | storus | rep 1.000 mil (1001 pra) | onces brit 5.0 minz | 1040 BAU 8.0 Martz | STATUS | tep node ma (reer praj |
| V SC | | 55006 | | 456 | | storus | | V 50 | | \$7X*VG | |
| | | | | | | | | | | | |



11 CONDUCTED SPURIOUS EMISSION

11.1 LIMIT

For FCC

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

11.2 TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting: RBW= 100 kHz, VBW=300 kHz, Sweep time = Auto.

11.3 MEASUREMENT INSTRUMENTS LIST

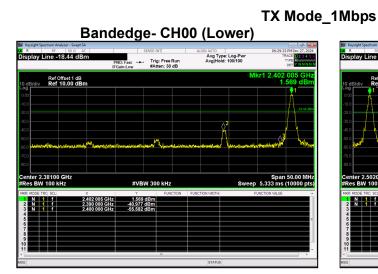
| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|---------------|-------------|------------|------------------|
| 1 | Spectrum analyzer | KEYSIGHT | N9010A | MY55150427 | 2025/05/22 |
| 2 | Attenuator | Mini-Circuits | BW-S10W2 | 101109 | N/A |
| 3 | RF Cable | Mi-cable | C10-01-01-1 | 100309 | N/A |

11.4 TEST SETUP

| EUT | SPECTRUM |
|-----|----------|
| | ANALYZER |

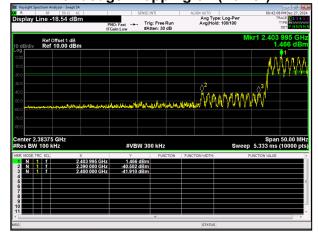
11.5 EUT OPERATION CONDITIONS



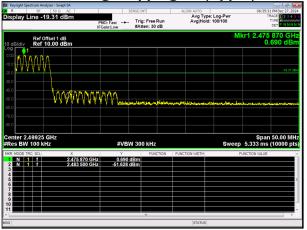


Banchedge CH78 (Uppen)

Bandedge- Hopping on (Lower)



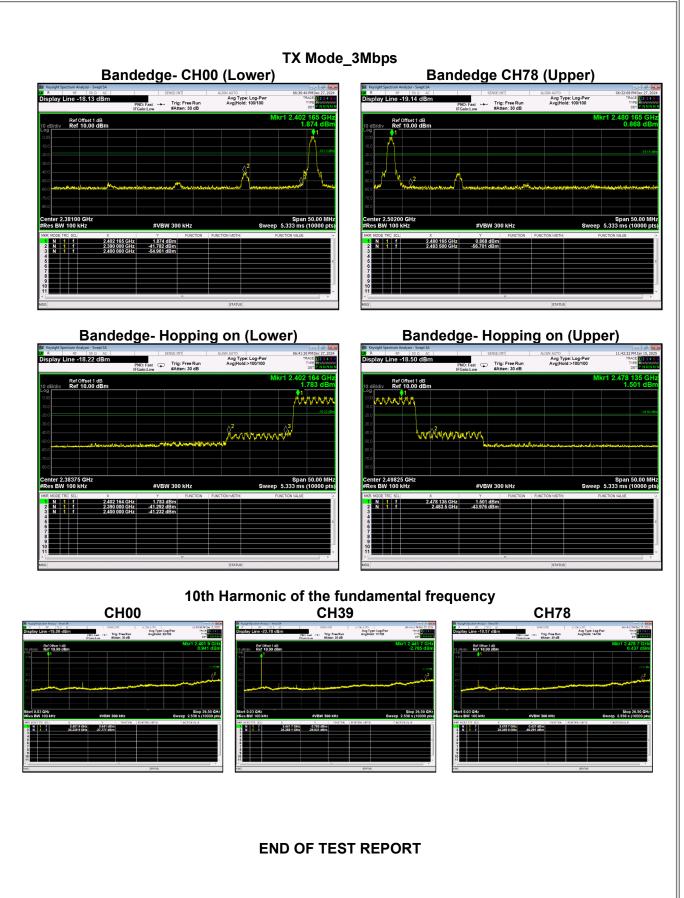
BandedgeHopping on (Upper)



10th Harmonic of the fundamental frequency







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