

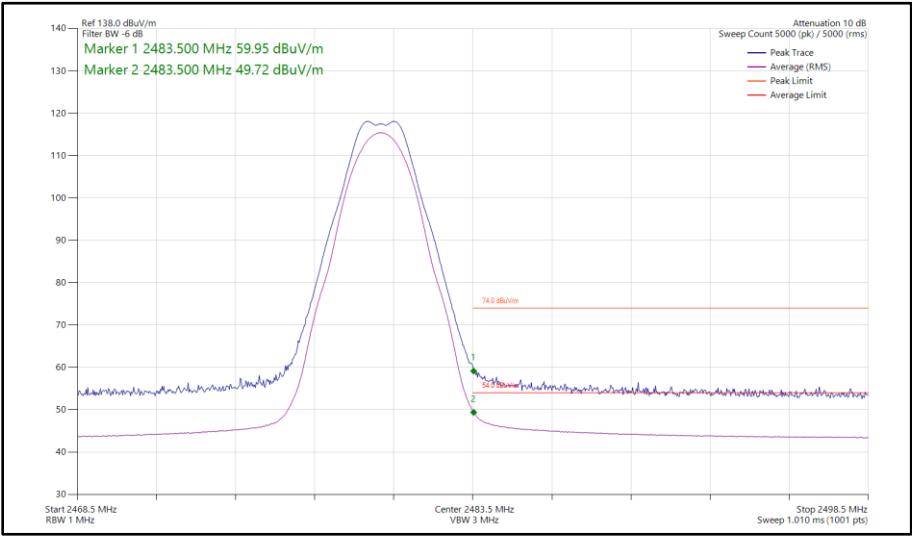


Figure 70 - Bluetooth LE2M, MIMO, Core 0 - Core 1 - 2480 MHz  
Band Edge Frequency 2483.5 MHz

FCC 47 CFR Part 15, Limit Clause 15.209

| Frequency (MHz) | Field Strength (µV/m at 3 m) |
|-----------------|------------------------------|
| 30 to 88        | 100                          |
| 88 to 216       | 150                          |
| 216 to 960      | 200                          |
| Above 960       | 500                          |

Table 14

ISED RSS-GEN, Limit Clause 8.9

| Frequency (MHz) | Field Strength (µV/m at 3 m) |
|-----------------|------------------------------|
| 30 to 88        | 100                          |
| 88 to 216       | 150                          |
| 216 to 960      | 200                          |
| Above 960*      | 500                          |

Table 15

\*Unless otherwise specified, for all frequencies greater than 1 GHz, the radiated emission limits for licence-exempt radio apparatus stated in applicable RSSs (including RSS-Gen) are based on measurements using a linear average detector function having a minimum resolution bandwidth of 1 MHz. If an average limit is specified for the EUT, then the peak emission shall also be measured with instrumentation properly adjusted for such factors as pulse desensitization to ensure the peak emission is less than 20 dB above the average limit.



## 2.1.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 16 and RF Chamber 17.

| Instrument                          | Manufacturer       | Type No.             | TE No. | Calibration Period (months) | Calibration Expiry Date |
|-------------------------------------|--------------------|----------------------|--------|-----------------------------|-------------------------|
| Emissions Software                  | TUV SUD            | EmX V3.4.2           | 5125   | -                           | Software                |
| Test Receiver                       | Rohde & Schwarz    | ESW44                | 5379   | 12                          | 12-Dec-2024             |
| 1500W (300V 12A) AC Power Supply    | iTech              | IT7324               | 5957   | -                           | O/P Mon                 |
| 3m Semi-Anechoic Chamber, Chamber16 | Albatross Projects | RF Chamber 16        | 5972   | 36                          | 24-May-2025             |
| Mast & Turntable Controller         | Maturo Gmbh        | FCU3.0               | 5973   | -                           | TU                      |
| Tilt Antenna Mast                   | Maturo Gmbh        | BAM4.5-P             | 5974   | -                           | TU                      |
| Turntable                           | Maturo Gmbh        | TT1.5SI              | 5975   | -                           | TU                      |
| Cable (SMA to SMA 1m)               | Junkosha           | MWX221-01000AMSAMS/A | 5997   | 12                          | 14-Sep-2024             |
| Cable (SMA to SMA 4.5m)             | Junkosha           | MWX221-04500AMSAMS/A | 6002   | 12                          | 14-Sep-2024             |
| Cable (N to N 7m)                   | Junkosha           | MWX221-07000NMSNMS/B | 6005   | 12                          | 20-May-2025             |
| Cable (SMA to SMA 1m)               | Junkosha           | MWX221-01000AMSAMS/A | 6008   | 12                          | 20-May-2025             |
| Cable (N to N 1m)                   | Junkosha           | MWX221-01000AMSAMS/B | 6009   | 12                          | 20-May-2025             |
| Cable (SMA to SMA 6.5m)             | Junkosha           | MWX221-06500AMSAMS/B | 6014   | -                           | 24-Aug-2024             |
| Cable (SMA to SMA 1m)               | Junkosha           | MWX221-01000AMSAMS/A | 6018   | 12                          | 10-Jun-2025             |
| Cable (SMA to SMA 3m)               | Junkosha           | MWX221-03000AMSAMS/A | 6021   | 12                          | 14-Sep-2024             |
| Horn Antenna (1-10.5 GHz)           | Schwarzbeck        | BBHA9120B            | 6140   | 12                          | 05-May-2025             |
| Digital Multimeter                  | Fluke              | 115                  | 6146   | 12                          | 06-Jun-2025             |
| Humidity & Temperature meter        | R.S Components     | 1364                 | 6148   | 12                          | 29-Jul-2025             |
| EMI Test Receiver                   | Rohde & Schwarz    | ESW44                | 6294   | 12                          | 06-Jan-2025             |
| Cable (SMA to SMA 1m)               | Junkosha           | MWX221-01000AMSAMS/A | 6315   | 12                          | 04-Feb-2025             |
| Cable (SMA to SMA 3m)               | Junkosha           | MWX221-03000AMSAMS/A | 6316   | 12                          | 04-Feb-2025             |
| Cable (SMA to SMA 8m)               | Junkosha           | MWX221-08000AMSAMS/B | 6319   | -                           | 04-Feb-2025             |
| SAC Switch Unit                     | TUV SUD            | TUV_SSU_004 PLC      | 6349   | 12                          | 07-May-2025             |
| Horn Antenna (1–10.5 GHz)           | Schwarzbeck        | BBHA 9120 B          | 6457   | 12                          | 05-May-2025             |
| Humidity and Temperature Meter      | R.S Components     | 1364                 | 6486   | 12                          | 04-Jun-2025             |
| AC Power Supply                     | iTech              | IT7324               | 6657   | -                           | O/P Mon                 |
| 3m Semi-Anechoic Chamber            | Albatross Projects | RF Chamber 17        | 6658   | 36                          | 28-Jan-2026             |



| Instrument                    | Manufacturer | Type No.             | TE No. | Calibration Period (months) | Calibration Expiry Date |
|-------------------------------|--------------|----------------------|--------|-----------------------------|-------------------------|
| Mast and Turntable Controller | Maturo Gmbh  | FCU3.0               | 6659   | -                           | TU                      |
| Tilt Antenna Mast             | Maturo Gmbh  | BAM4.5-P             | 6660   | -                           | TU                      |
| Turntable                     | Maturo Gmbh  | TT1.5SI              | 6661   | -                           | TU                      |
| 1m Cable                      | Junkosha     | MWX241-01000AMSAMS/B | 6740   | 12                          | 01-Feb-2025             |
| 1m Cable                      | Junkosha     | MWX241-01000AMSAMS/B | 6741   | 12                          | 01-Feb-2025             |
| 6.5m Cable                    | Junkosha     | MWX221-06500AMSAMS/B | 6744   | 12                          | 01-Feb-2025             |
| 8m Cable                      | Junkosha     | MWX221-08000AMSAMS/B | 6748   | 12                          | 01-Feb-2025             |

**Table 16**

TU - Traceability Unscheduled  
O/P Mon - Output Monitored using calibrated equipment



## **2.2 Emission Bandwidth**

### **2.2.1 Specification Reference**

FCC 47 CFR Part 15C, Clause 15.247 (a)(2)  
ISED RSS-247, Clause 5.2  
ISED RSS-GEN, Clause 6.7

### **2.2.2 Equipment Under Test and Modification State**

A3143, S/N: NTP2P9W067 - Modification State 0  
A3143, S/N: VCXLW6763J - Modification State 0

### **2.2.3 Date of Test**

23-October-2024 to 05-November-2024

### **2.2.4 Test Method**

This test was performed in accordance with ANSI C63.10, clause 11.8.1 for 6 dB BW and 6.9.3 for 99% occupied bandwidth measurements.

### **2.2.5 Environmental Conditions**

|                     |                |
|---------------------|----------------|
| Ambient Temperature | 19.4 - 20.9 °C |
| Relative Humidity   | 48.6 - 55.3 %  |



## 2.2.6 Test Results

### 2.4 GHz Bluetooth LE/HDR

| Test Configuration       |                                 |                 |                               |
|--------------------------|---------------------------------|-----------------|-------------------------------|
| Frequency Range:         | 2400-2483.5 MHz                 | Band:           | 2.4 GHz                       |
| Limit Clause(s):         | 15.247 (a)(2)<br>RSS-247 5.2 a) | Test Method(s): | C63.10 6.9.3<br>C63.10 11.8.1 |
| Additional Reference(s): | -                               |                 |                               |

| DUT Configuration      |                           |                          |   |
|------------------------|---------------------------|--------------------------|---|
| Mode:                  | iPA $\pi/4$ DQPSK (4-DH5) | Duty Cycle (%):          | - |
| Antenna Configuration: | SISO                      | DCCF (dB):               | - |
| Active Port(s):        | B (Core 1)                | Peak Antenna Gain (dBi): | - |

| Test Frequency (MHz) | 6 dB Bandwidth (MHz) |       |   |   | Limit (kHz)  |
|----------------------|----------------------|-------|---|---|--------------|
|                      | A                    | B     | C | D |              |
| 2404                 | -                    | 1.568 | - | - | $\geq 500.0$ |
| 2441                 | -                    | 1.904 | - | - | $\geq 500.0$ |
| 2476                 | -                    | 1.896 | - | - | $\geq 500.0$ |

**Table 17 - 6 dB Bandwidth Results**

| Test Frequency (MHz) | 99% Bandwidth (MHz) |       |   |   | Limit (kHz) |
|----------------------|---------------------|-------|---|---|-------------|
|                      | A                   | B     | C | D |             |
| 2404                 | -                   | 2.320 | - | - | -           |
| 2441                 | -                   | 2.320 | - | - | -           |
| 2476                 | -                   | 2.328 | - | - | -           |

**Table 18 - 99% Bandwidth Results**

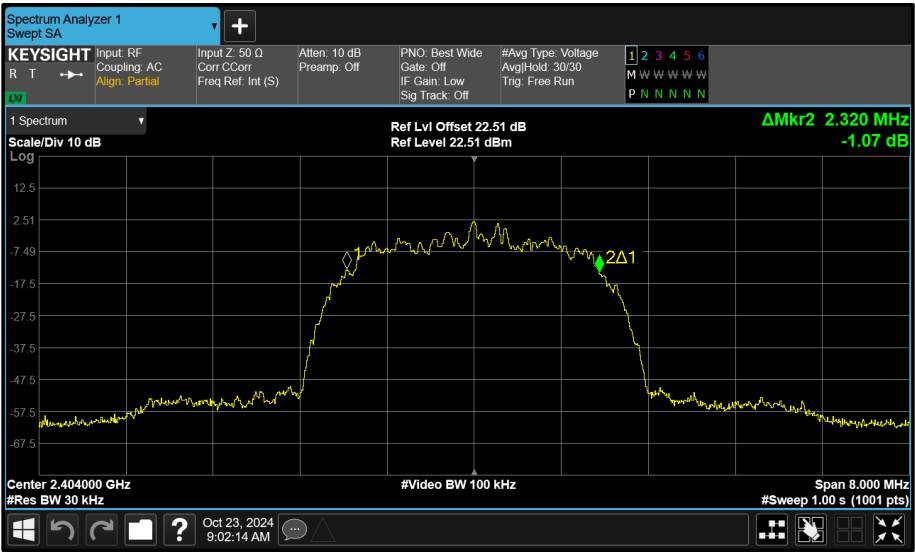


Figure 71 - Core 1 (B) 2404 MHz (CH2) 99% Bandwidth

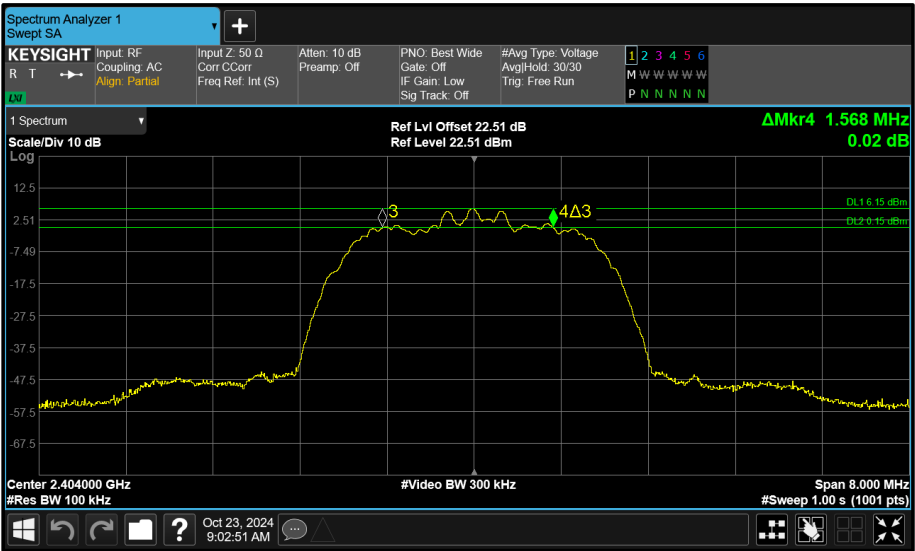


Figure 72 - Core 1 (B) 2404 MHz (CH2) 6 dB Bandwidth

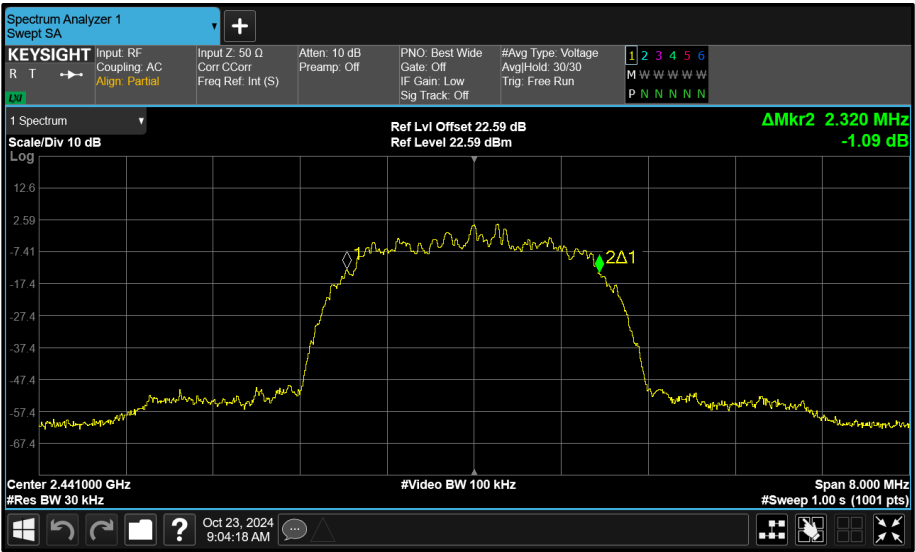


Figure 73 - Core 1 (B) 2441 MHz (CH39) 99% Bandwidth

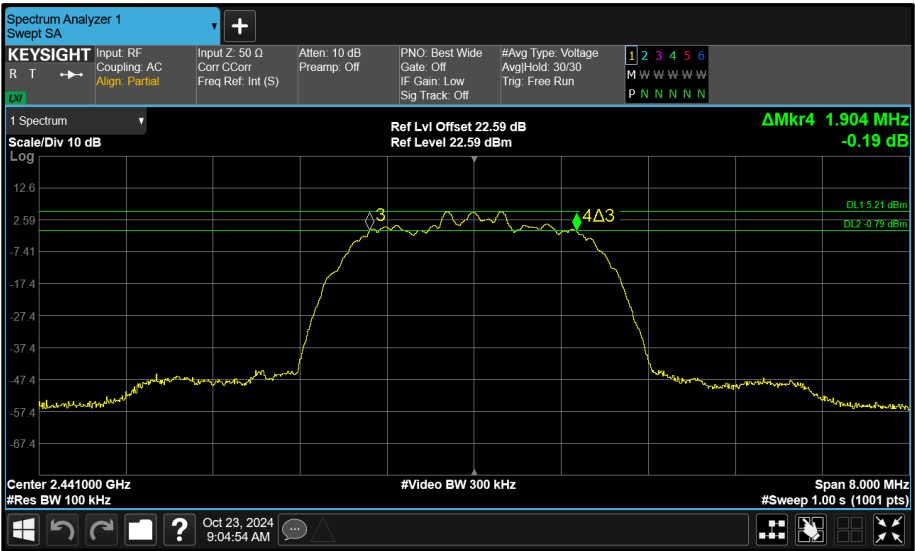


Figure 74 - Core 1 (B) 2441 MHz (CH39) 6 dB Bandwidth

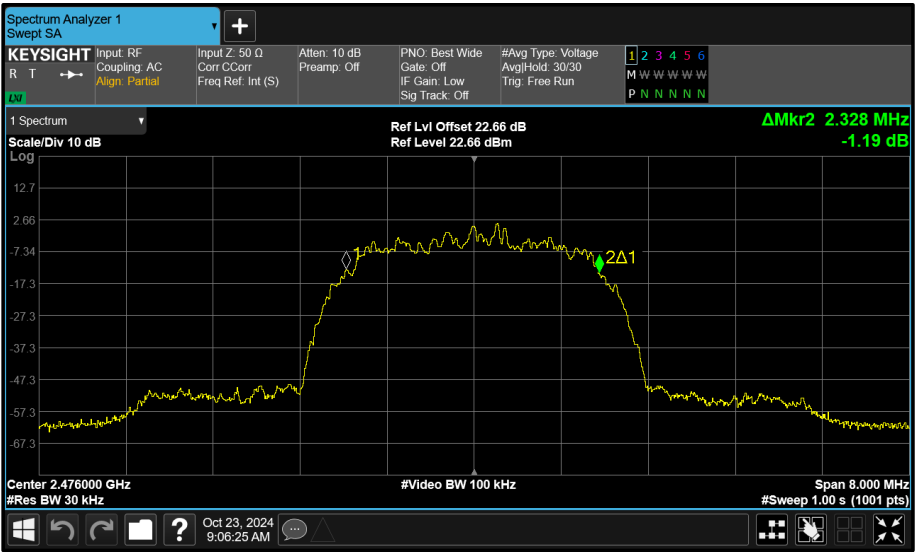


Figure 75 - Core 1 (B) 2476 MHz (CH74) 99% Bandwidth

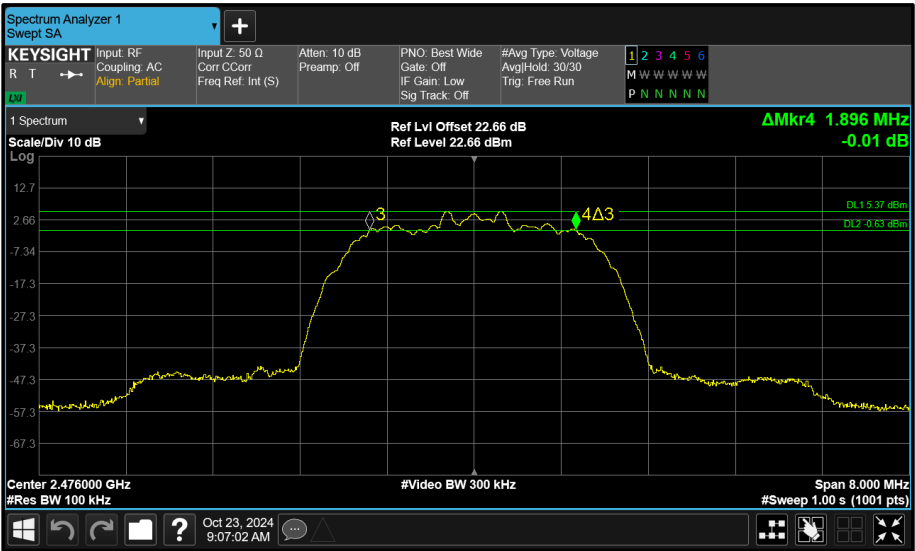


Figure 76 - Core 1 (B) 2476 MHz (CH74) 6 dB Bandwidth



| Test Configuration       |                                 |                 |                               |
|--------------------------|---------------------------------|-----------------|-------------------------------|
| Frequency Range:         | 2400-2483.5 MHz                 | Band:           | 2.4 GHz                       |
| Limit Clause(s):         | 15.247 (a)(2)<br>RSS-247 5.2 a) | Test Method(s): | C63.10 6.9.3<br>C63.10 11.8.1 |
| Additional Reference(s): | -                               |                 |                               |

| DUT Configuration      |                           |                          |   |
|------------------------|---------------------------|--------------------------|---|
| Mode:                  | iPA $\pi/4$ DQPSK (8-DH5) | Duty Cycle (%):          | - |
| Antenna Configuration: | SISO                      | DCCF (dB):               | - |
| Active Port(s):        | B (Core 1)                | Peak Antenna Gain (dBi): | - |

| Test Frequency (MHz) | 6 dB Bandwidth (MHz) |       |   |   | Limit (kHz)  |
|----------------------|----------------------|-------|---|---|--------------|
|                      | A                    | B     | C | D |              |
| 2404                 | -                    | 0.660 | - | - | $\geq 500.0$ |
| 2441                 | -                    | 1.020 | - | - | $\geq 500.0$ |
| 2476                 | -                    | 1.035 | - | - | $\geq 500.0$ |

**Table 19 - 6 dB Bandwidth Results**

| Test Frequency (MHz) | 99% Bandwidth (MHz) |       |   |   | Limit (kHz) |
|----------------------|---------------------|-------|---|---|-------------|
|                      | A                   | B     | C | D |             |
| 2404                 | -                   | 4.620 | - | - | -           |
| 2441                 | -                   | 4.620 | - | - | -           |
| 2476                 | -                   | 4.620 | - | - | -           |

**Table 20 - 99% Bandwidth Results**

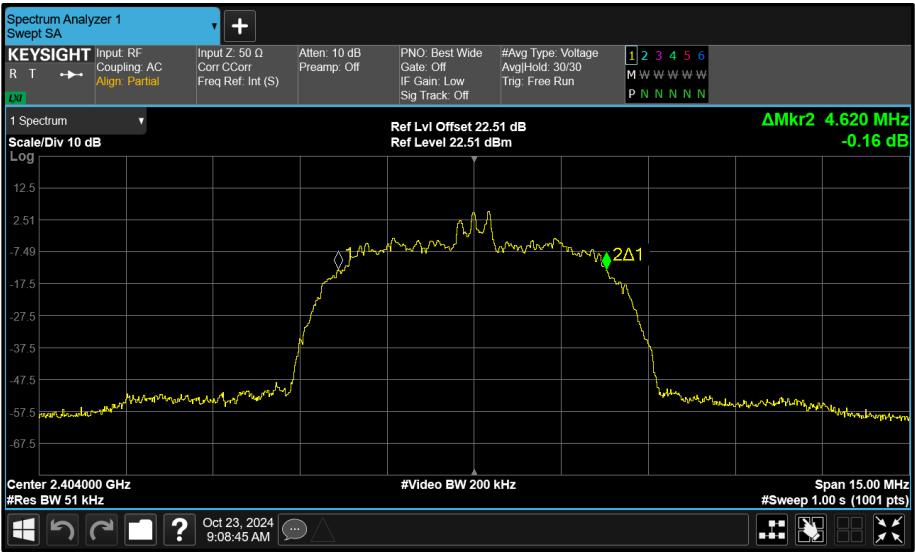


Figure 77 - Core 1 (B) 2404 MHz (CH2) 99% Bandwidth

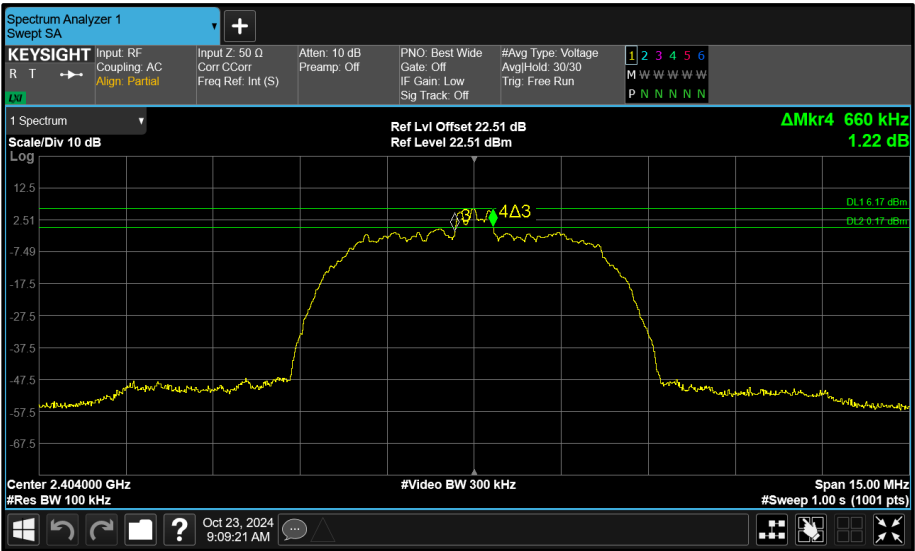


Figure 78 - Core 1 (B) 2404 MHz (CH2) 6 dB Bandwidth

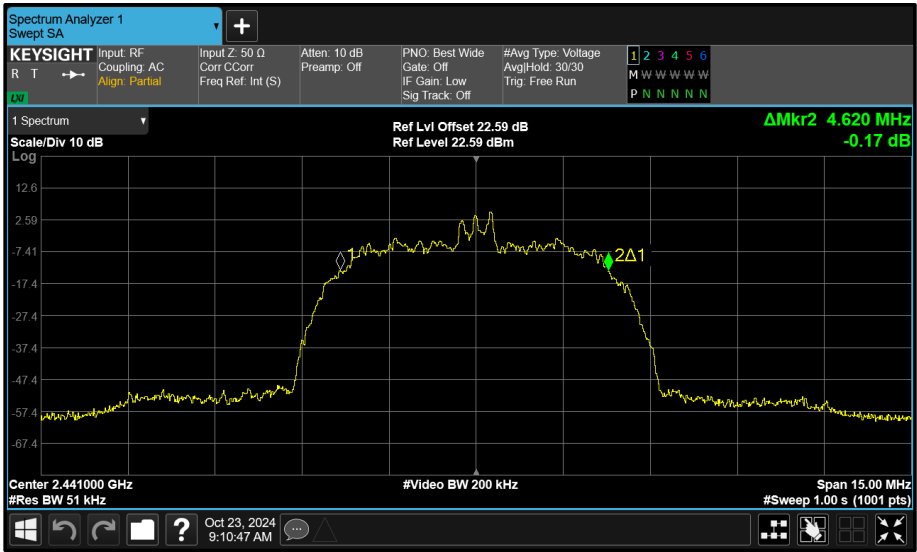


Figure 79 - Core 1 (B) 2441 MHz (CH39) 99% Bandwidth

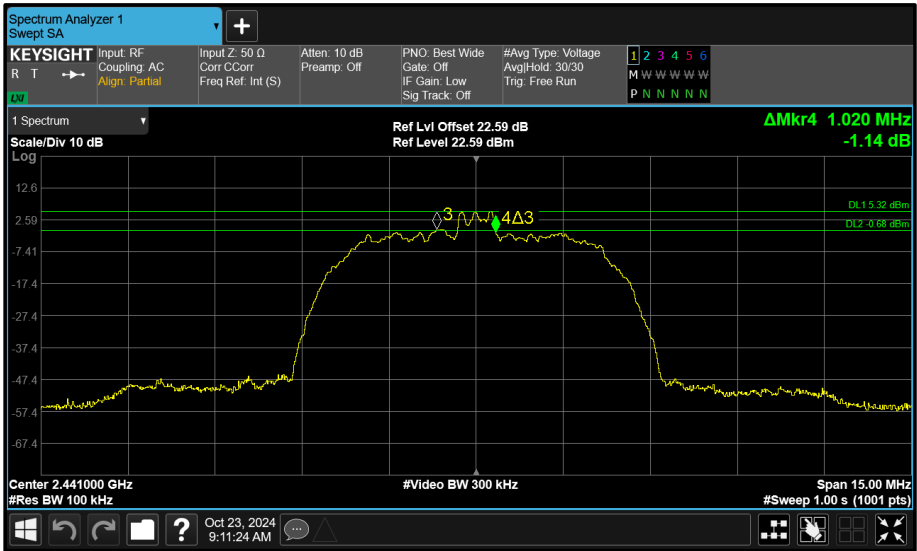


Figure 80 - Core 1 (B) 2441 MHz (CH39) 6 dB Bandwidth

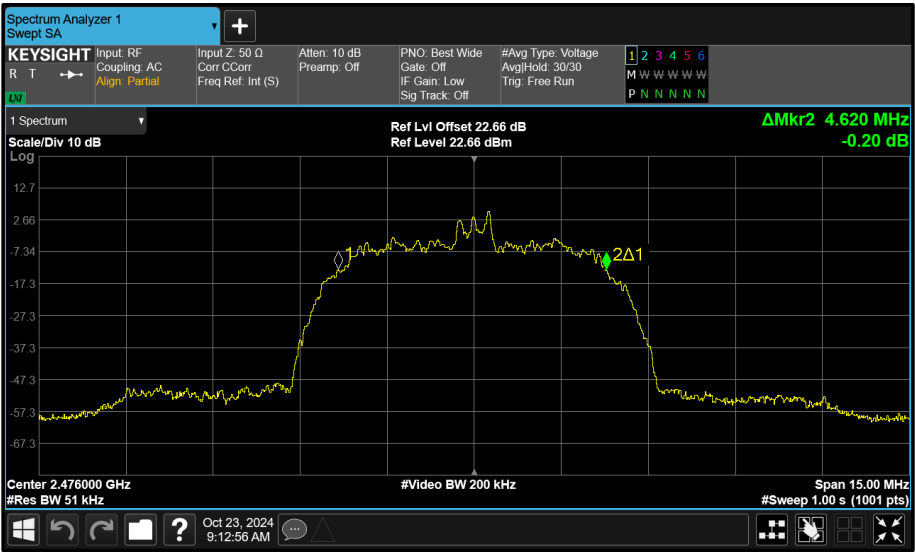


Figure 81 - Core 1 (B) 2476 MHz (CH74) 99% Bandwidth

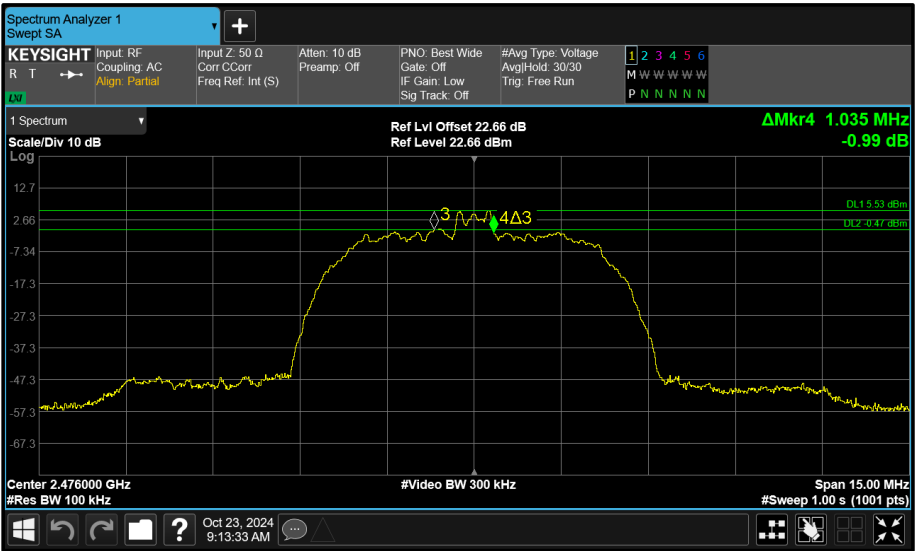


Figure 82 - Core 1 (B) 2476 MHz (CH74) 6 dB Bandwidth



| Test Configuration       |                                 |                 |                               |
|--------------------------|---------------------------------|-----------------|-------------------------------|
| Frequency Range:         | 2400-2483.5 MHz                 | Band:           | 2.4 GHz                       |
| Limit Clause(s):         | 15.247 (a)(2)<br>RSS-247 5.2 a) | Test Method(s): | C63.10 6.9.3<br>C63.10 11.8.1 |
| Additional Reference(s): | -                               |                 |                               |

| DUT Configuration      |                           |                          |   |
|------------------------|---------------------------|--------------------------|---|
| Mode:                  | iPA $\pi/4$ DQPSK (4-DH5) | Duty Cycle (%):          | - |
| Antenna Configuration: | SISO                      | DCCF (dB):               | - |
| Active Port(s):        | C (Core 2)                | Peak Antenna Gain (dBi): | - |

| Test Frequency (MHz) | 6 dB Bandwidth (MHz) |   |       |   | Limit (kHz)  |
|----------------------|----------------------|---|-------|---|--------------|
|                      | A                    | B | C     | D |              |
| 2404                 | -                    | - | 1.888 | - | $\geq 500.0$ |
| 2441                 | -                    | - | 1.584 | - | $\geq 500.0$ |
| 2476                 | -                    | - | 1.560 | - | $\geq 500.0$ |

**Table 21 - 6 dB Bandwidth Results**

| Test Frequency (MHz) | 99% Bandwidth (MHz) |   |       |   | Limit (kHz) |
|----------------------|---------------------|---|-------|---|-------------|
|                      | A                   | B | C     | D |             |
| 2404                 | -                   | - | 2.320 | - | -           |
| 2441                 | -                   | - | 2.320 | - | -           |
| 2476                 | -                   | - | 2.312 | - | -           |

**Table 22 - 99% Bandwidth Results**

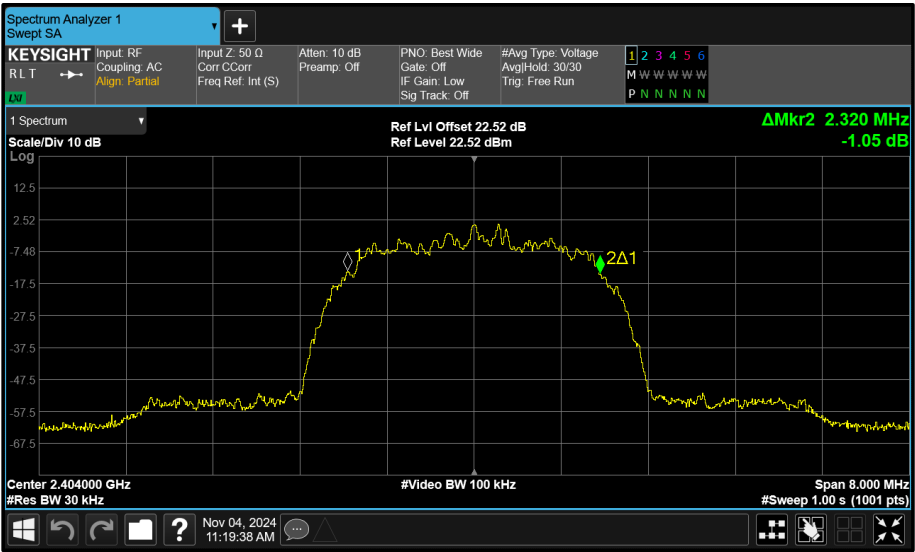


Figure 83 - Core 2 (C) 2404 MHz (CH2) 99% Bandwidth

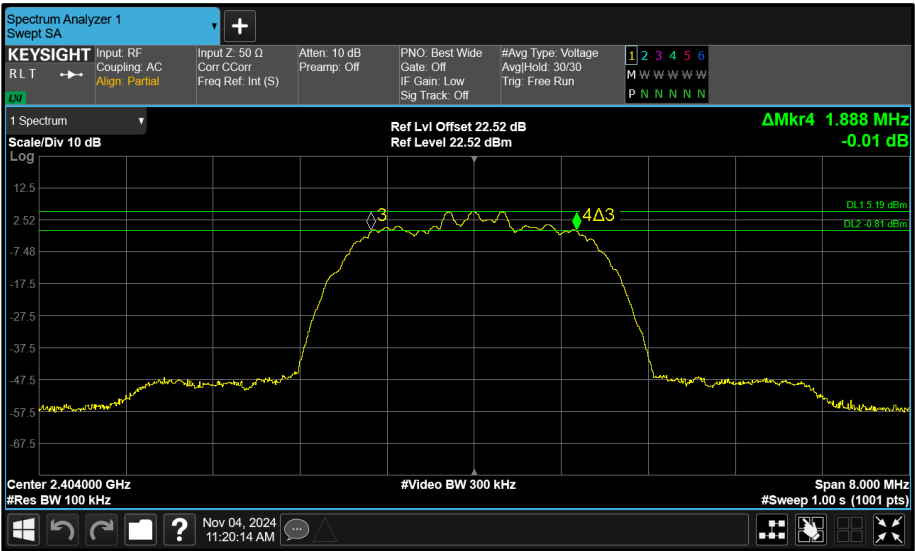


Figure 84 - Core 2 (C) 2404 MHz (CH2) 6 dB Bandwidth

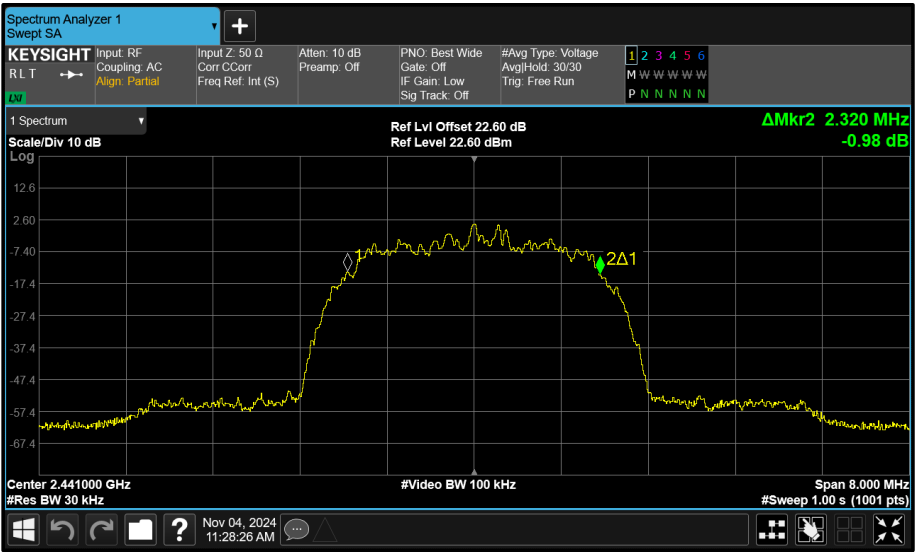


Figure 85 - Core 2 (C) 2441 MHz (CH39) 99% Bandwidth

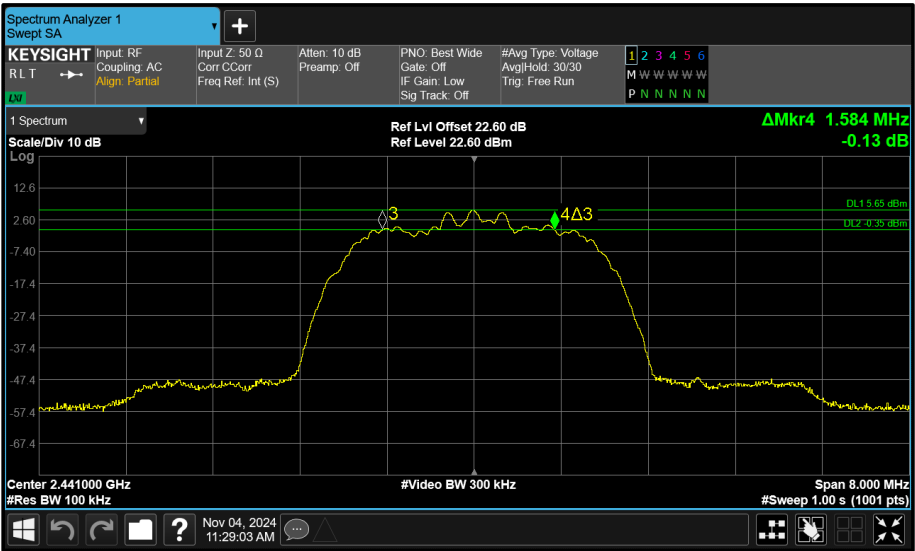


Figure 86 - Core 2 (C) 2441 MHz (CH39) 6 dB Bandwidth

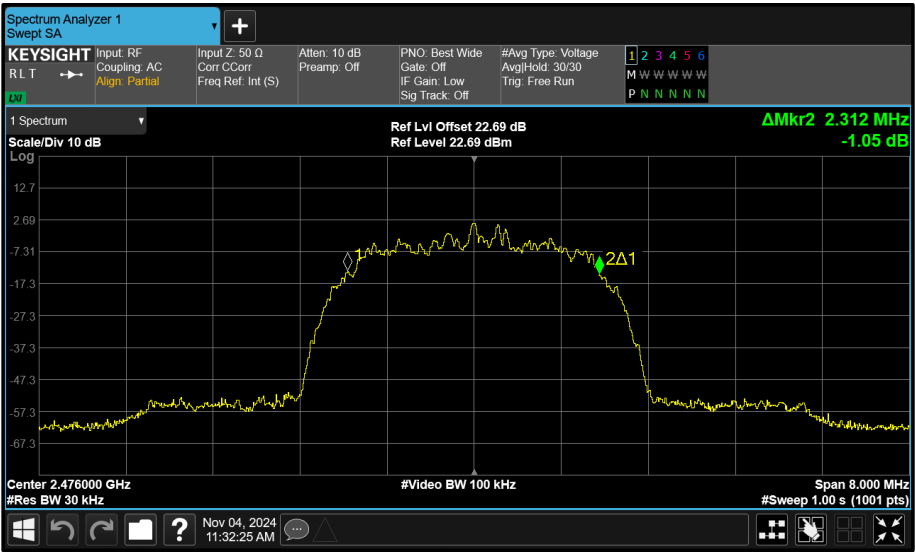


Figure 87 - Core 2 (C) 2476 MHz (CH74) 99% Bandwidth

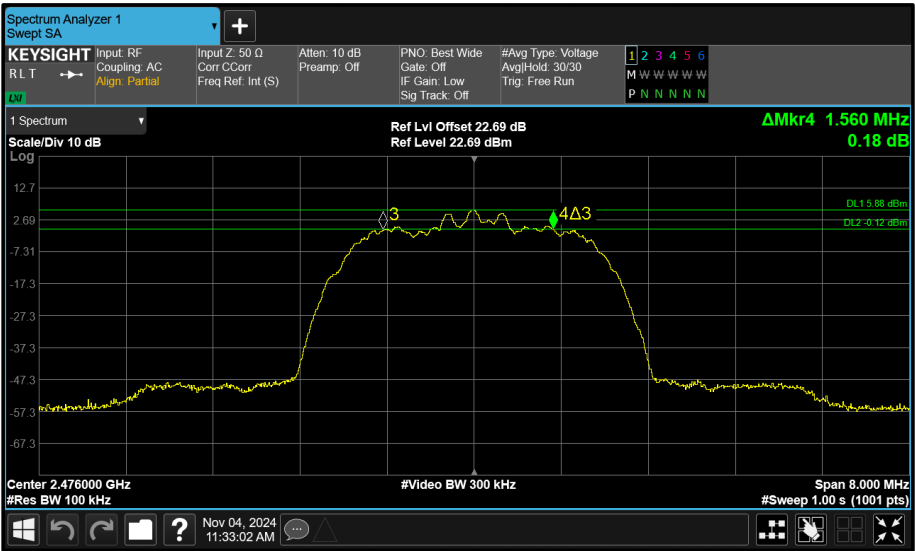


Figure 88 - Core 2 (C) 2476 MHz (CH74) 6 dB Bandwidth



| Test Configuration       |                                 |                 |                               |
|--------------------------|---------------------------------|-----------------|-------------------------------|
| Frequency Range:         | 2400-2483.5 MHz                 | Band:           | 2.4 GHz                       |
| Limit Clause(s):         | 15.247 (a)(2)<br>RSS-247 5.2 a) | Test Method(s): | C63.10 6.9.3<br>C63.10 11.8.1 |
| Additional Reference(s): | -                               |                 |                               |

| DUT Configuration      |                           |                          |   |
|------------------------|---------------------------|--------------------------|---|
| Mode:                  | iPA $\pi/4$ DQPSK (8-DH5) | Duty Cycle (%):          | - |
| Antenna Configuration: | SISO                      | DCCF (dB):               | - |
| Active Port(s):        | C (Core 2)                | Peak Antenna Gain (dBi): | - |

| Test Frequency (MHz) | 6 dB Bandwidth (MHz) |   |       |   | Limit (kHz)  |
|----------------------|----------------------|---|-------|---|--------------|
|                      | A                    | B | C     | D |              |
| 2404                 | -                    | - | 0.660 | - | $\geq 500.0$ |
| 2441                 | -                    | - | 0.660 | - | $\geq 500.0$ |
| 2476                 | -                    | - | 0.645 | - | $\geq 500.0$ |

**Table 23 - 6 dB Bandwidth Results**

| Test Frequency (MHz) | 99% Bandwidth (MHz) |   |       |   | Limit (kHz) |
|----------------------|---------------------|---|-------|---|-------------|
|                      | A                   | B | C     | D |             |
| 2404                 | -                   | - | 4.620 | - | -           |
| 2441                 | -                   | - | 4.620 | - | -           |
| 2476                 | -                   | - | 4.635 | - | -           |

**Table 24 - 99% Bandwidth Results**

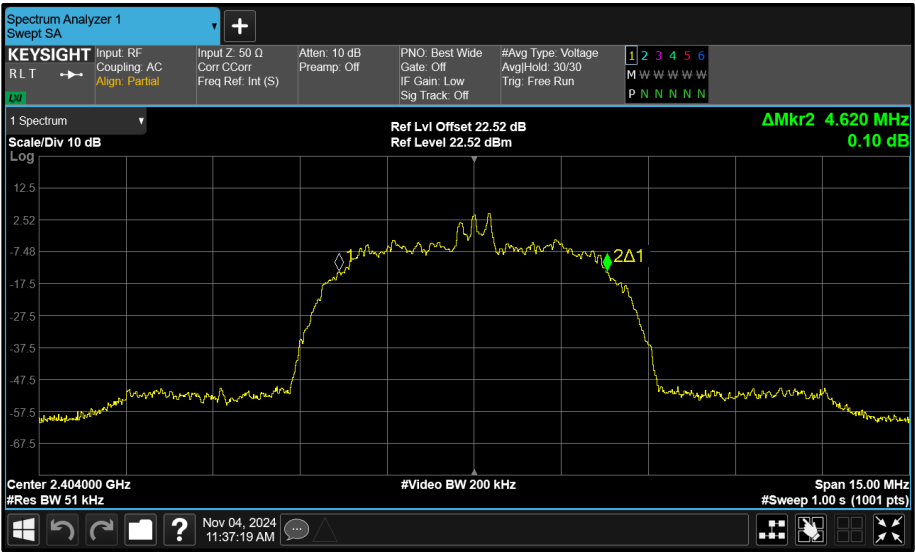


Figure 89 - Core 2 (C) 2404 MHz (CH2) 99% Bandwidth

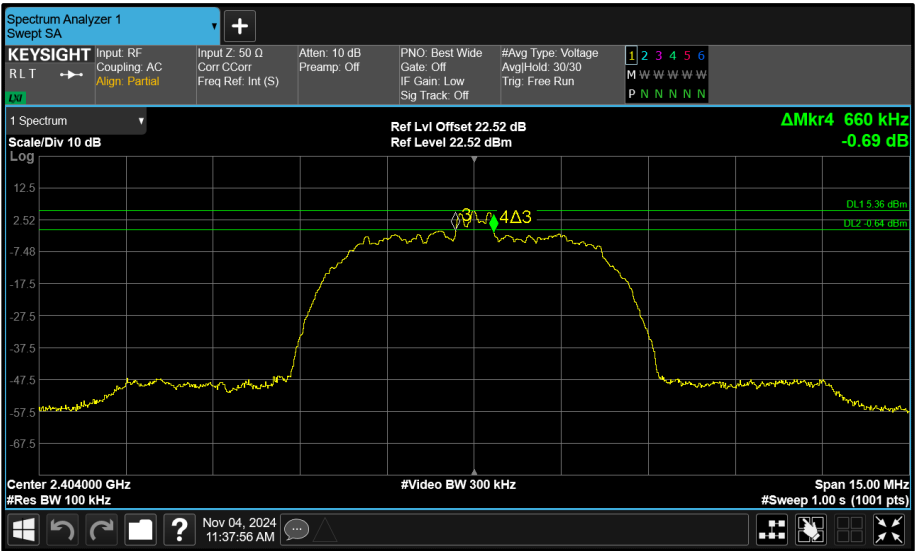


Figure 90 - Core 2 (C) 2404 MHz (CH2) 6 dB Bandwidth



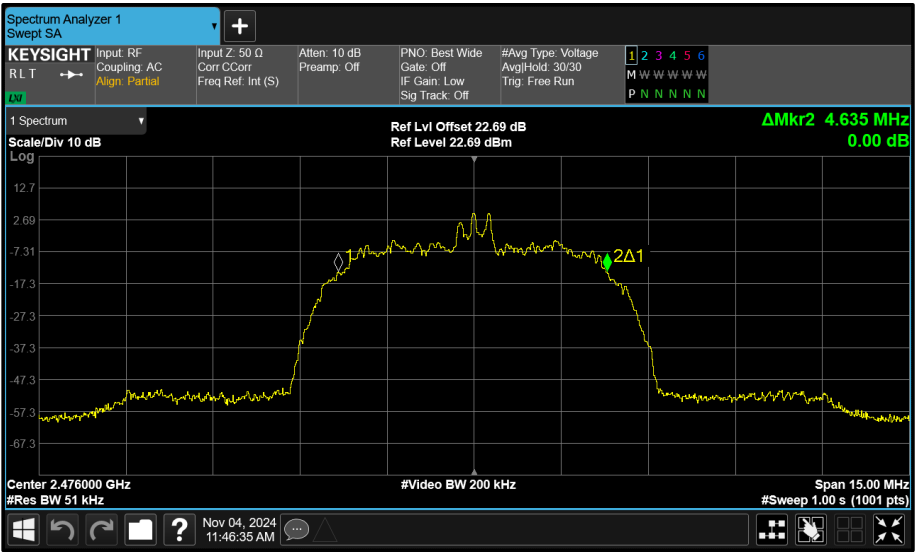


Figure 93 - Core 2 (C) 2476 MHz (CH74) 99% Bandwidth

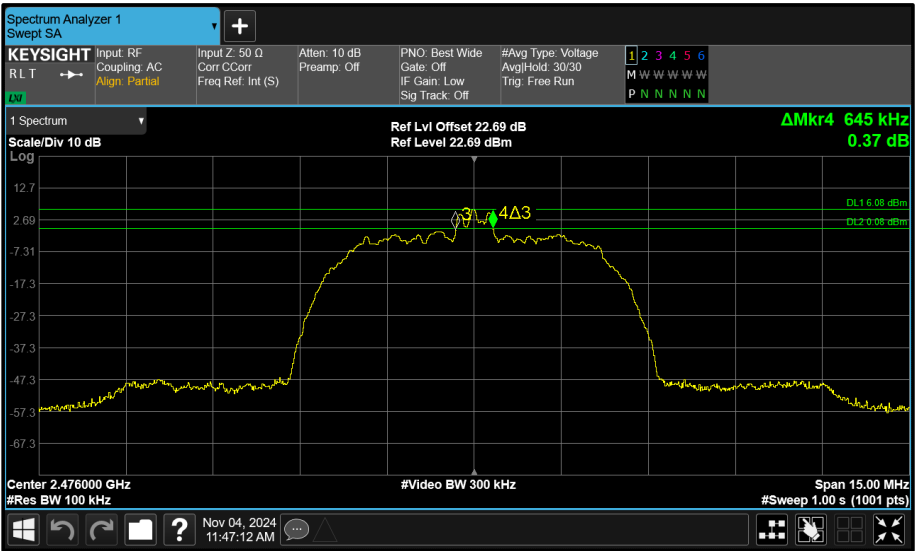


Figure 94 - Core 2 (C) 2476 MHz (CH74) 6 dB Bandwidth



| Test Configuration       |                                 |                 |                               |
|--------------------------|---------------------------------|-----------------|-------------------------------|
| Frequency Range:         | 2400-2483.5 MHz                 | Band:           | 2.4 GHz                       |
| Limit Clause(s):         | 15.247 (a)(2)<br>RSS-247 5.2 a) | Test Method(s): | C63.10 6.9.3<br>C63.10 11.8.1 |
| Additional Reference(s): | -                               |                 |                               |

| DUT Configuration      |                  |                          |   |
|------------------------|------------------|--------------------------|---|
| Mode:                  | iPA GFSK (LE 1M) | Duty Cycle (%):          | - |
| Antenna Configuration: | SISO             | DCCF (dB):               | - |
| Active Port(s):        | B (Core 1)       | Peak Antenna Gain (dBi): | - |

| Test Frequency (MHz) | 6 dB Bandwidth (MHz) |       |   |   | Limit (kHz) |
|----------------------|----------------------|-------|---|---|-------------|
|                      | A                    | B     | C | D |             |
| 2402                 | -                    | 0.728 | - | - | ≥500.0      |
| 2440                 | -                    | 0.724 | - | - | ≥500.0      |
| 2480                 | -                    | 0.728 | - | - | ≥500.0      |

**Table 25 - 6 dB Bandwidth Results**

| Test Frequency (MHz) | 99% Bandwidth (MHz) |       |   |   | Limit (kHz) |
|----------------------|---------------------|-------|---|---|-------------|
|                      | A                   | B     | C | D |             |
| 2402                 | -                   | 1.036 | - | - | -           |
| 2440                 | -                   | 1.036 | - | - | -           |
| 2480                 | -                   | 1.032 | - | - | -           |

**Table 26 - 99% Bandwidth Results**

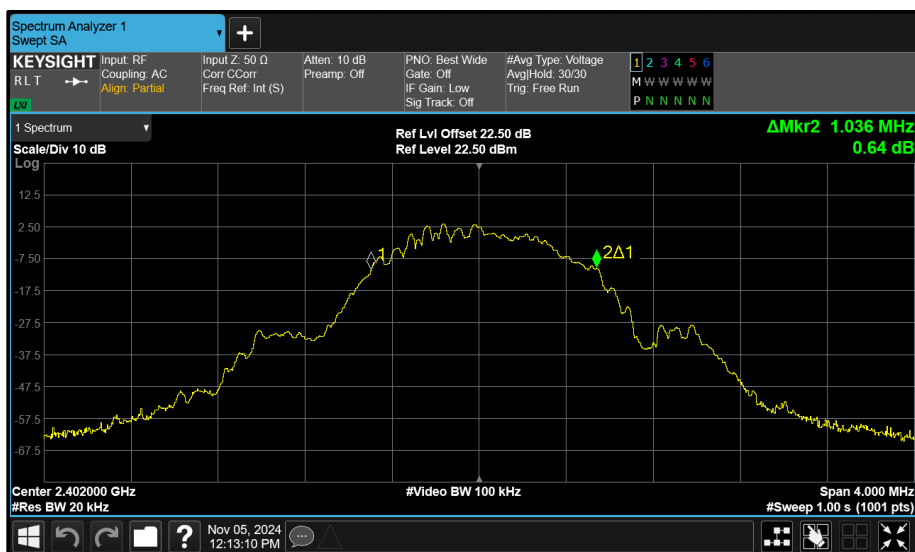


Figure 95 - Core 1 (B) 2402 MHz (CH37) 99% Bandwidth

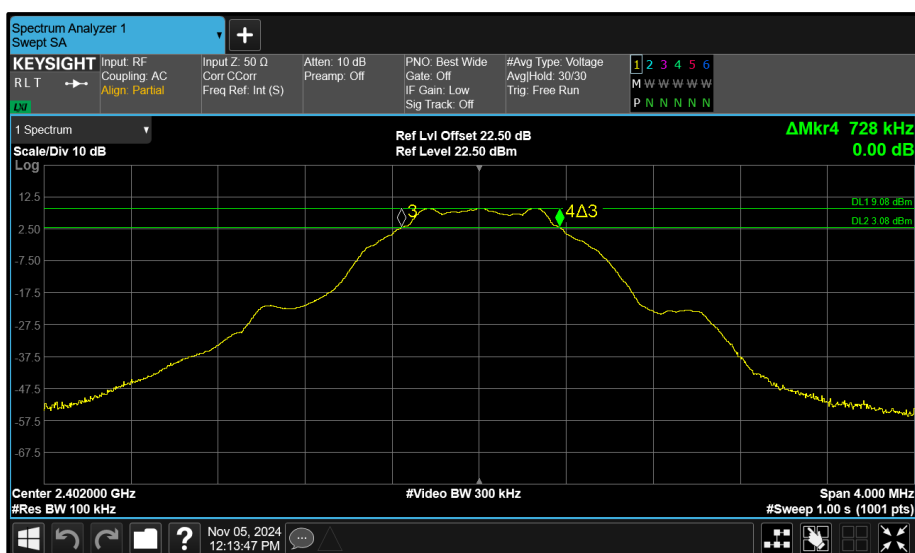


Figure 96 - Core 1 (B) 2402 MHz (CH37) 6 dB Bandwidth

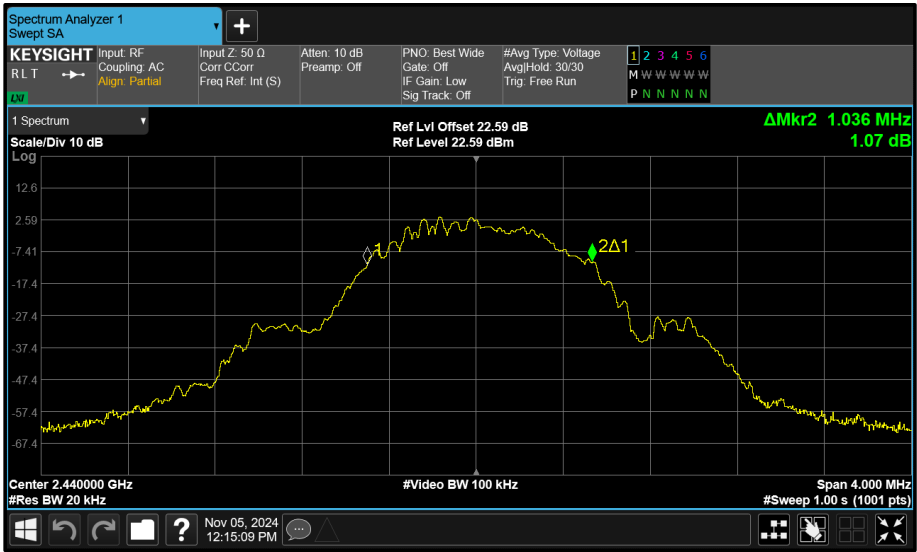


Figure 97 - Core 1 (B) 2440 MHz (CH17) 99% Bandwidth

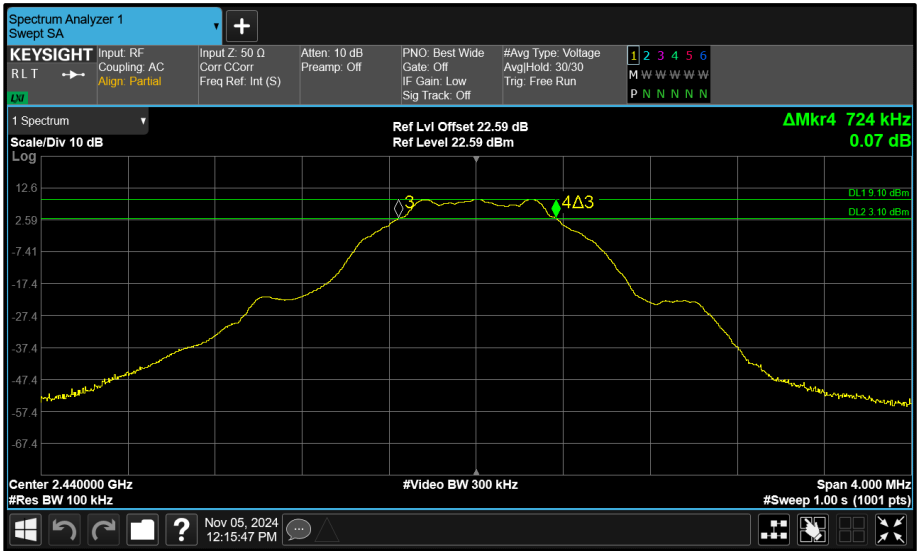


Figure 98 - Core 1 (B) 2440 MHz (CH17) 6 dB Bandwidth

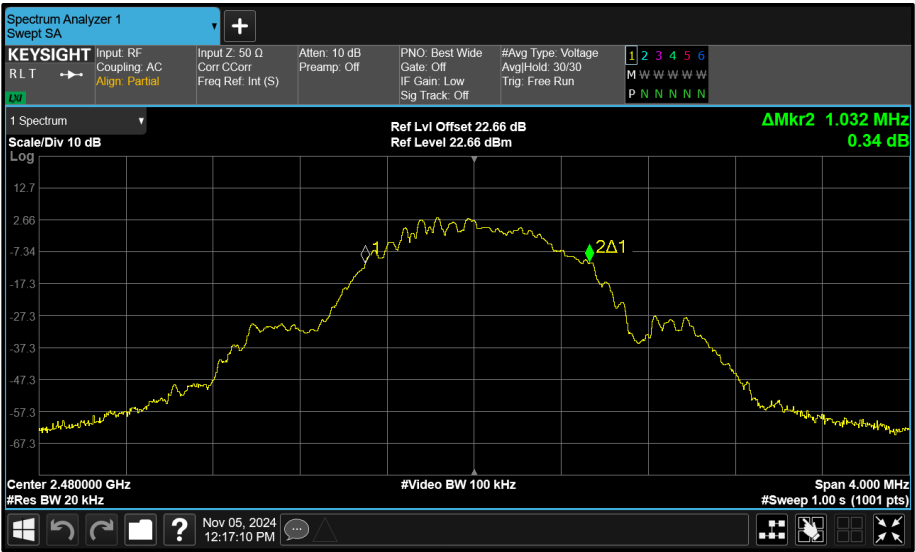


Figure 99 - Core 1 (B) 2480 MHz (CH39) 99% Bandwidth

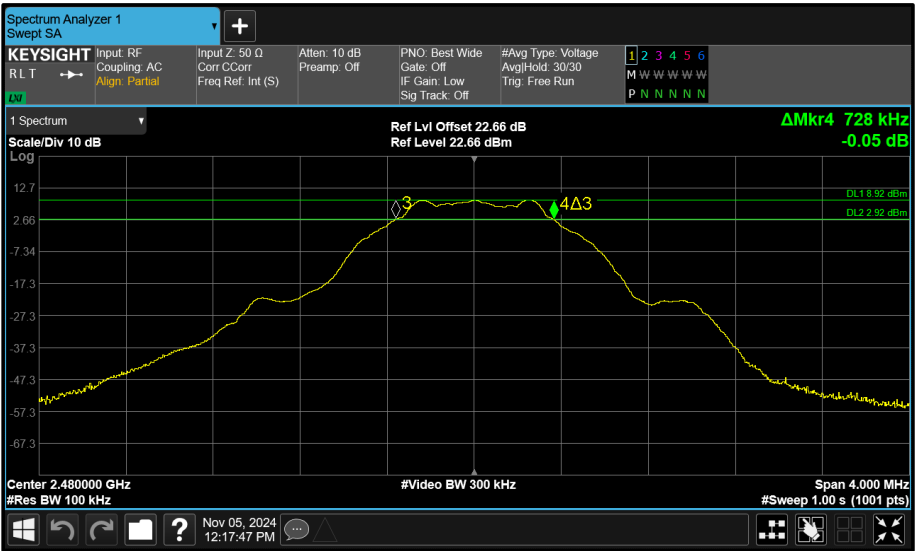


Figure 100 - Core 1 (B) 2480 MHz (CH39) 6 dB Bandwidth



| Test Configuration       |                                 |                 |                               |
|--------------------------|---------------------------------|-----------------|-------------------------------|
| Frequency Range:         | 2400-2483.5 MHz                 | Band:           | 2.4 GHz                       |
| Limit Clause(s):         | 15.247 (a)(2)<br>RSS-247 5.2 a) | Test Method(s): | C63.10 6.9.3<br>C63.10 11.8.1 |
| Additional Reference(s): | -                               |                 |                               |

| DUT Configuration      |                  |                          |   |
|------------------------|------------------|--------------------------|---|
| Mode:                  | iPA GFSK (LE 2M) | Duty Cycle (%):          | - |
| Antenna Configuration: | SISO             | DCCF (dB):               | - |
| Active Port(s):        | B (Core 1)       | Peak Antenna Gain (dBi): | - |

| Test Frequency (MHz) | 6 dB Bandwidth (MHz) |       |   |   | Limit (kHz) |
|----------------------|----------------------|-------|---|---|-------------|
|                      | A                    | B     | C | D |             |
| 2402                 | -                    | 1.256 | - | - | ≥500.0      |
| 2440                 | -                    | 1.248 | - | - | ≥500.0      |
| 2480                 | -                    | 1.256 | - | - | ≥500.0      |

**Table 27 - 6 dB Bandwidth Results**

| Test Frequency (MHz) | 99% Bandwidth (MHz) |       |   |   | Limit (kHz) |
|----------------------|---------------------|-------|---|---|-------------|
|                      | A                   | B     | C | D |             |
| 2402                 | -                   | 2.088 | - | - | -           |
| 2440                 | -                   | 2.080 | - | - | -           |
| 2480                 | -                   | 2.080 | - | - | -           |

**Table 28 - 99% Bandwidth Results**

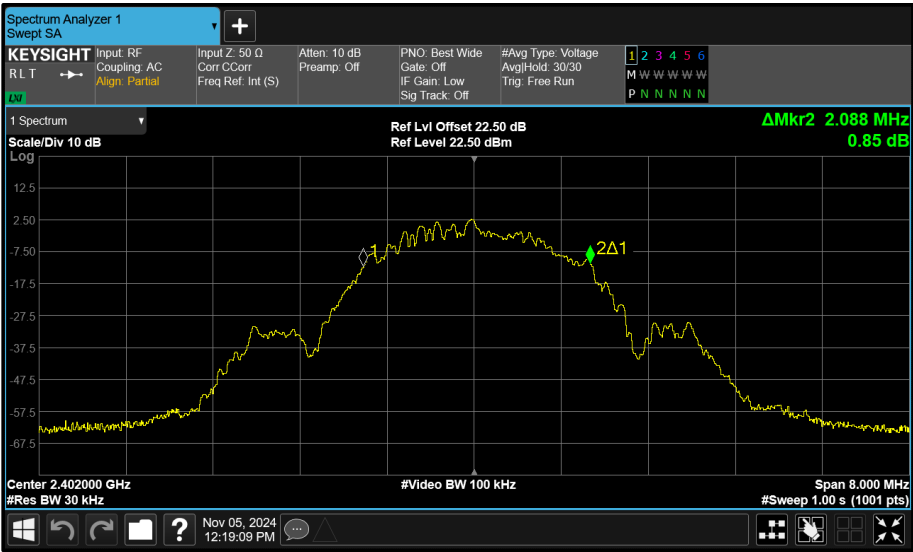


Figure 101 - Core 1 (B) 2402 MHz (CH37) 99% Bandwidth

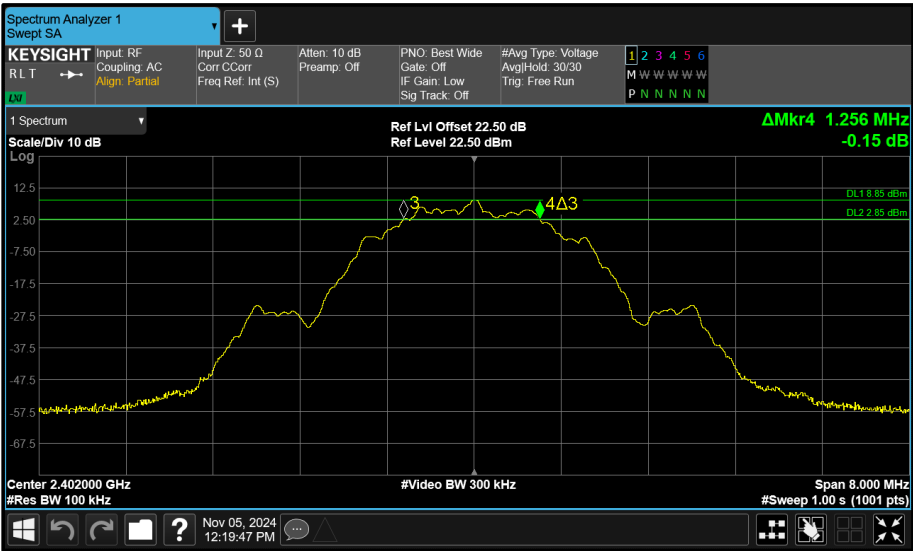


Figure 102 - Core 1 (B) 2402 MHz (CH37) 6 dB Bandwidth

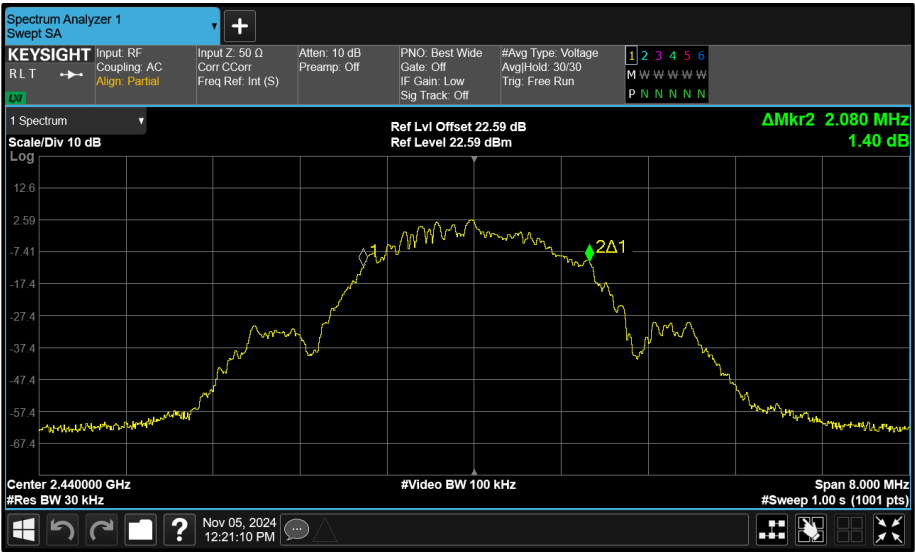


Figure 103 - Core 1 (B) 2440 MHz (CH17) 99% Bandwidth

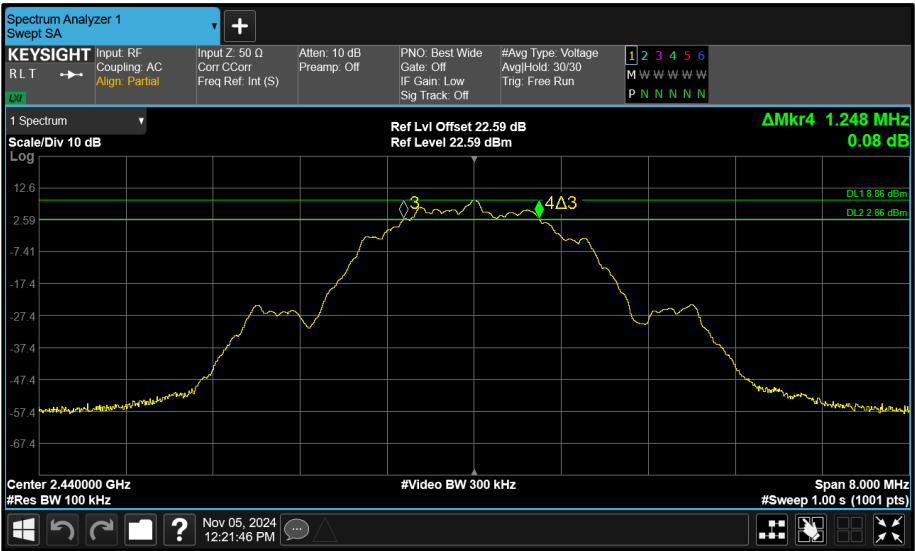


Figure 104 - Core 1 (B) 2440 MHz (CH17) 6 dB Bandwidth

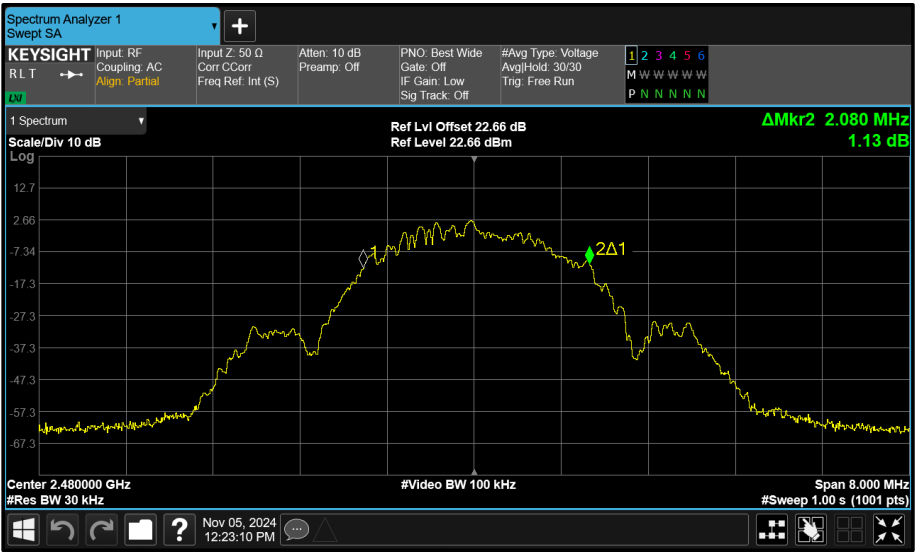


Figure 105 - Core 1 (B) 2480 MHz (CH39) 99% Bandwidth

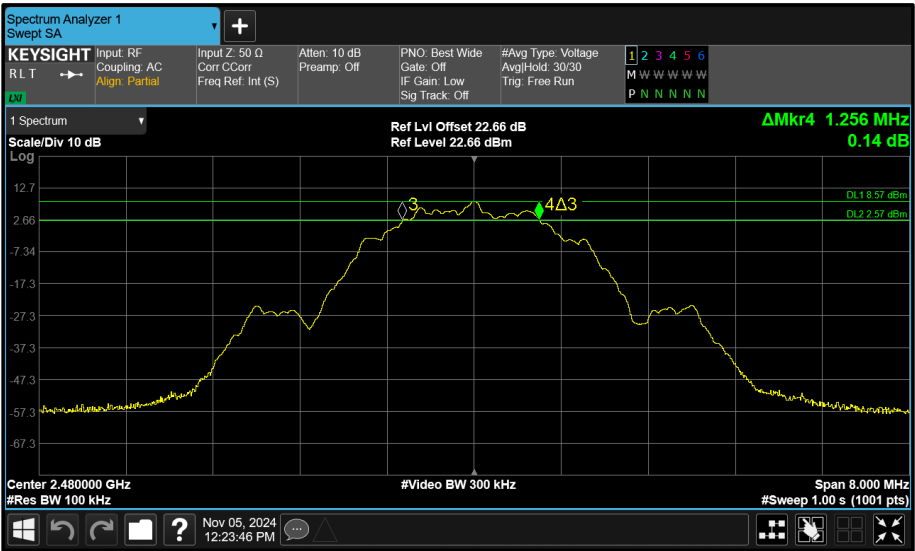


Figure 106 - Core 1 (B) 2480 MHz (CH39) 6 dB Bandwidth



| Test Configuration       |                                 |                 |                               |
|--------------------------|---------------------------------|-----------------|-------------------------------|
| Frequency Range:         | 2400-2483.5 MHz                 | Band:           | 2.4 GHz                       |
| Limit Clause(s):         | 15.247 (a)(2)<br>RSS-247 5.2 a) | Test Method(s): | C63.10 6.9.3<br>C63.10 11.8.1 |
| Additional Reference(s): | -                               |                 |                               |

| DUT Configuration      |                  |                          |   |
|------------------------|------------------|--------------------------|---|
| Mode:                  | iPA GFSK (LE 1M) | Duty Cycle (%):          | - |
| Antenna Configuration: | SISO             | DCCF (dB):               | - |
| Active Port(s):        | C (Core 2)       | Peak Antenna Gain (dBi): | - |

| Test Frequency (MHz) | 6 dB Bandwidth (MHz) |   |       |   | Limit (kHz) |
|----------------------|----------------------|---|-------|---|-------------|
|                      | A                    | B | C     | D |             |
| 2402                 | -                    | - | 0.724 | - | ≥500.0      |
| 2440                 | -                    | - | 0.708 | - | ≥500.0      |
| 2480                 | -                    | - | 0.700 | - | ≥500.0      |

**Table 29 - 6 dB Bandwidth Results**

| Test Frequency (MHz) | 99% Bandwidth (MHz) |   |       |   | Limit (kHz) |
|----------------------|---------------------|---|-------|---|-------------|
|                      | A                   | B | C     | D |             |
| 2402                 | -                   | - | 1.036 | - | -           |
| 2440                 | -                   | - | 1.036 | - | -           |
| 2480                 | -                   | - | 1.036 | - | -           |

**Table 30 - 99% Bandwidth Results**

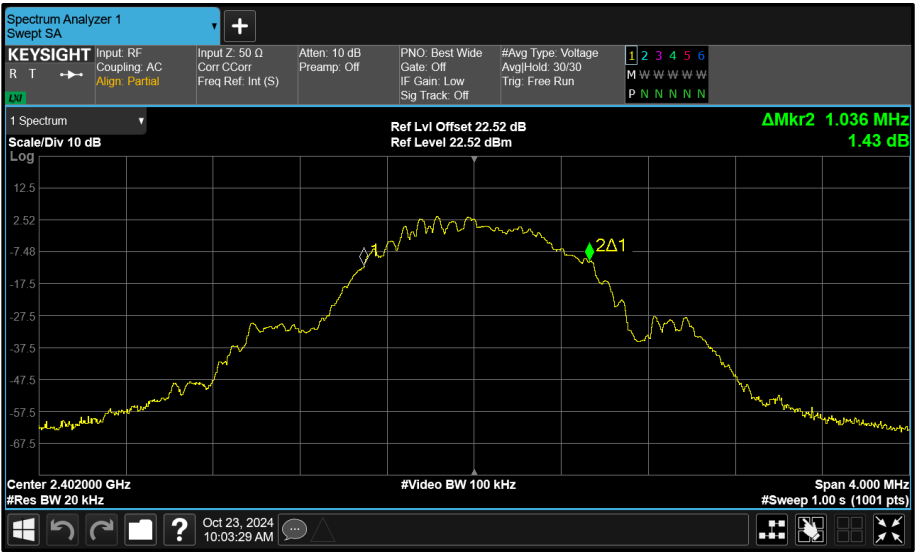


Figure 107 - Core 2 (C) 2402 MHz (CH37) 99% Bandwidth

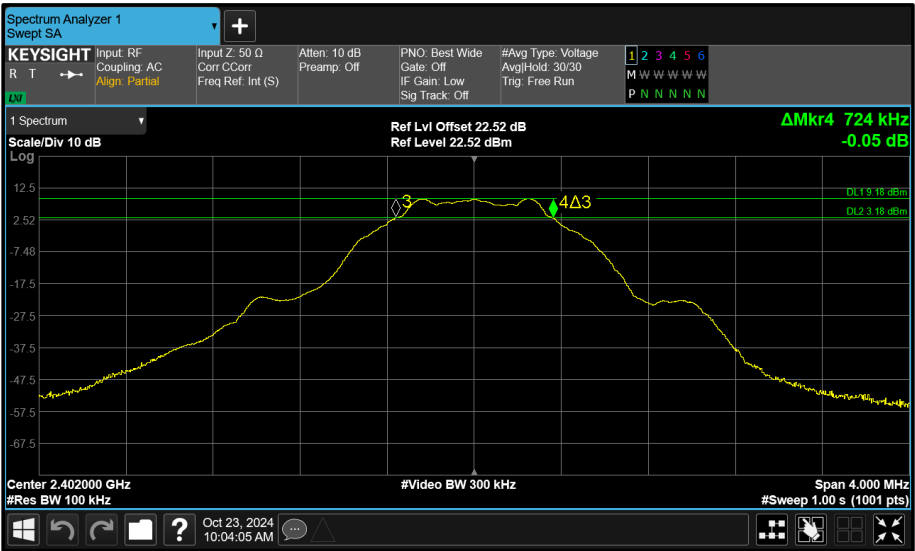


Figure 108 - Core 2 (C) 2402 MHz (CH37) 6 dB Bandwidth

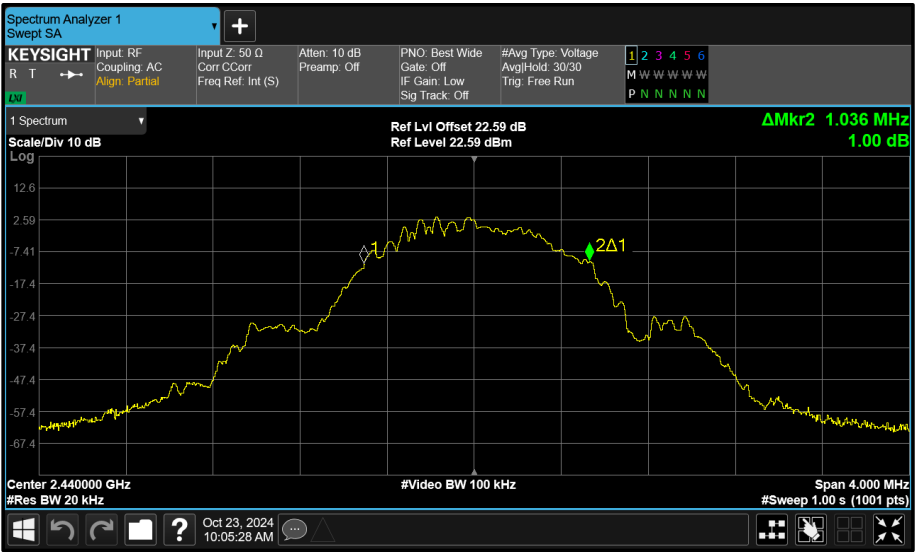


Figure 109 - Core 2 (C) 2440 MHz (CH17) 99% Bandwidth

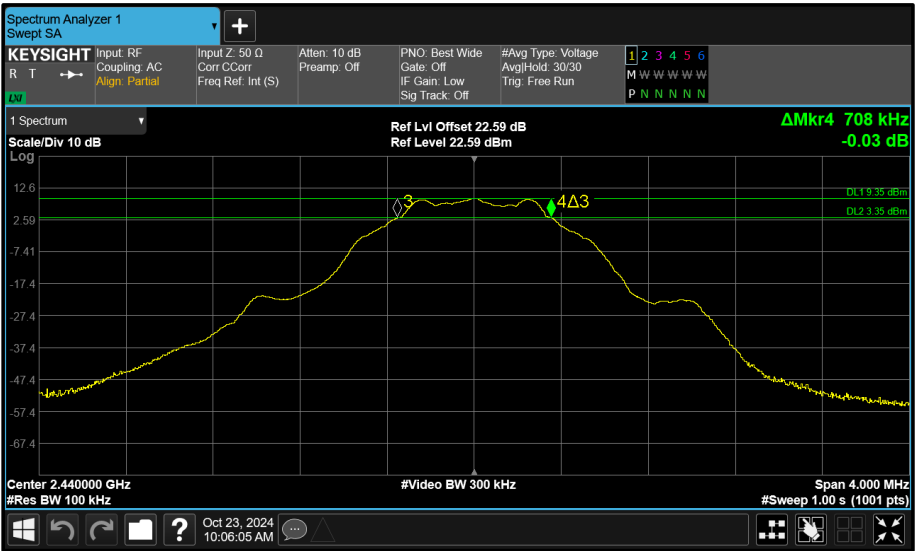


Figure 110 - Core 2 (C) 2440 MHz (CH17) 6 dB Bandwidth

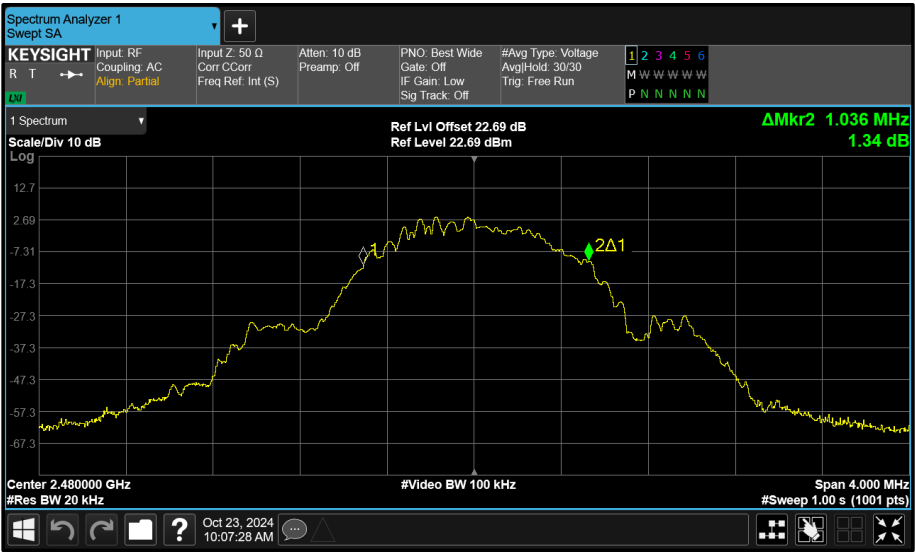


Figure 111 - Core 2 (C) 2480 MHz (CH39) 99% Bandwidth

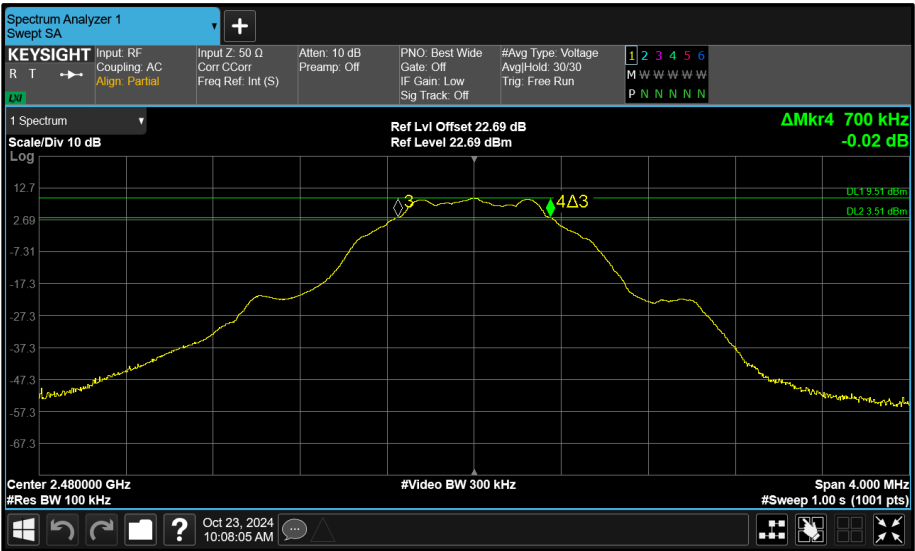


Figure 112 - Core 2 (C) 2480 MHz (CH39) 6 dB Bandwidth



| Test Configuration       |                                 |                 |                               |
|--------------------------|---------------------------------|-----------------|-------------------------------|
| Frequency Range:         | 2400-2483.5 MHz                 | Band:           | 2.4 GHz                       |
| Limit Clause(s):         | 15.247 (a)(2)<br>RSS-247 5.2 a) | Test Method(s): | C63.10 6.9.3<br>C63.10 11.8.1 |
| Additional Reference(s): | -                               |                 |                               |

| DUT Configuration      |                  |                          |   |
|------------------------|------------------|--------------------------|---|
| Mode:                  | iPA GFSK (LE 2M) | Duty Cycle (%):          | - |
| Antenna Configuration: | SISO             | DCCF (dB):               | - |
| Active Port(s):        | C (Core 2)       | Peak Antenna Gain (dBi): | - |

| Test Frequency (MHz) | 6 dB Bandwidth (MHz) |   |       |   | Limit (kHz) |
|----------------------|----------------------|---|-------|---|-------------|
|                      | A                    | B | C     | D |             |
| 2402                 | -                    | - | 1.264 | - | ≥500.0      |
| 2440                 | -                    | - | 1.248 | - | ≥500.0      |
| 2480                 | -                    | - | 1.176 | - | ≥500.0      |

**Table 31 - 6 dB Bandwidth Results**

| Test Frequency (MHz) | 99% Bandwidth (MHz) |   |       |   | Limit (kHz) |
|----------------------|---------------------|---|-------|---|-------------|
|                      | A                   | B | C     | D |             |
| 2402                 | -                   | - | 2.080 | - | -           |
| 2440                 | -                   | - | 2.088 | - | -           |
| 2480                 | -                   | - | 2.080 | - | -           |

**Table 32 - 99% Bandwidth Results**

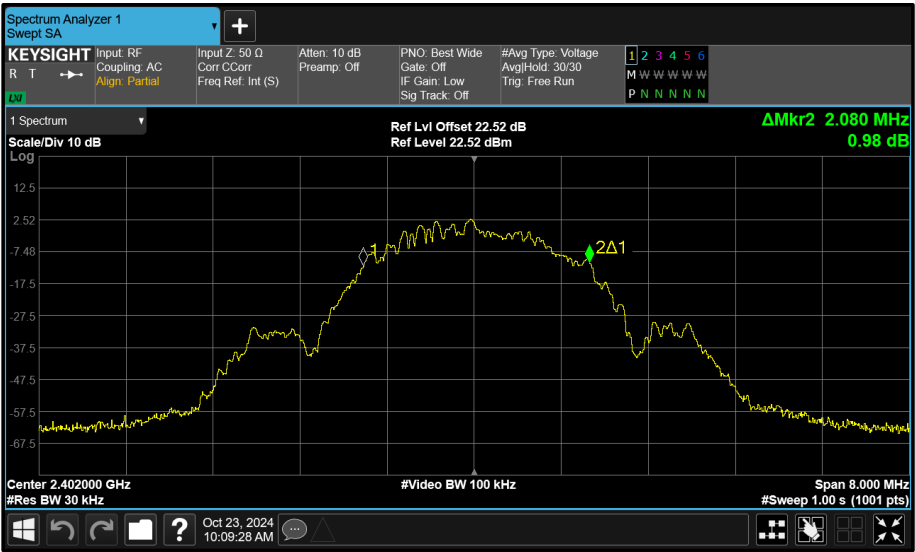


Figure 113 - Core 2 (C) 2402 MHz (CH37) 99% Bandwidth

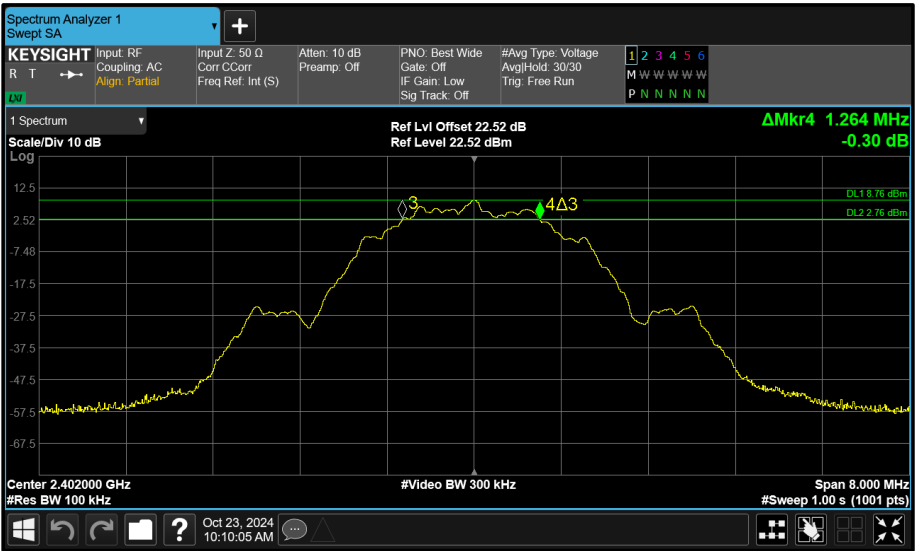


Figure 114 - Core 2 (C) 2402 MHz (CH37) 6 dB Bandwidth

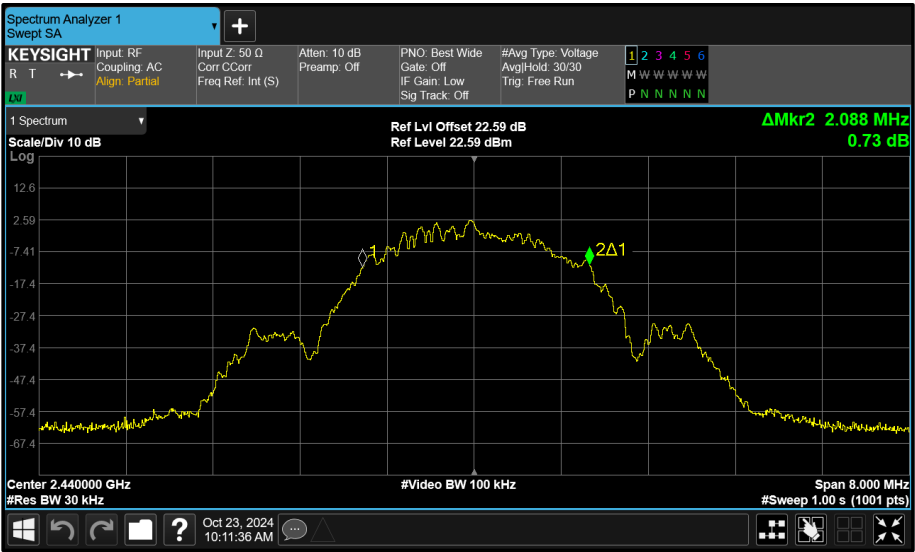


Figure 115 - Core 2 (C) 2440 MHz (CH17) 99% Bandwidth

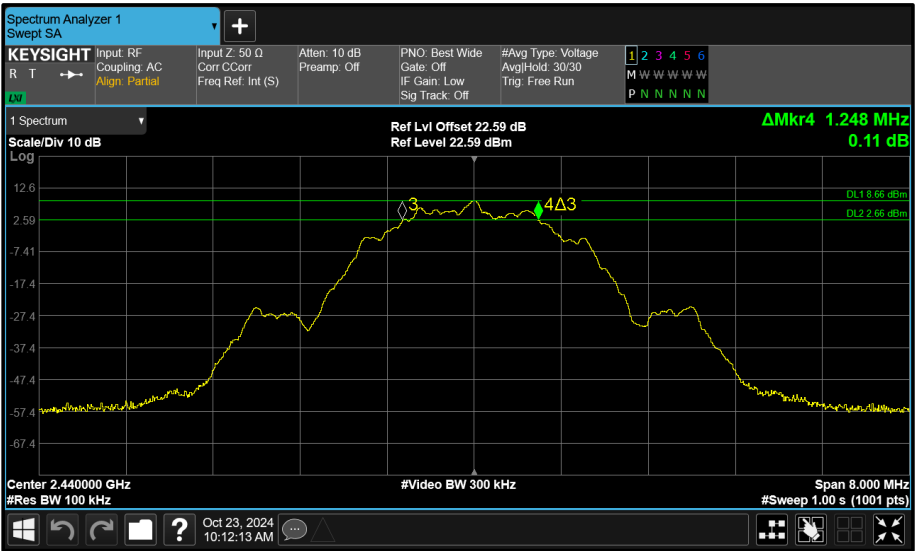


Figure 116 - Core 2 (C) 2440 MHz (CH17) 6 dB Bandwidth

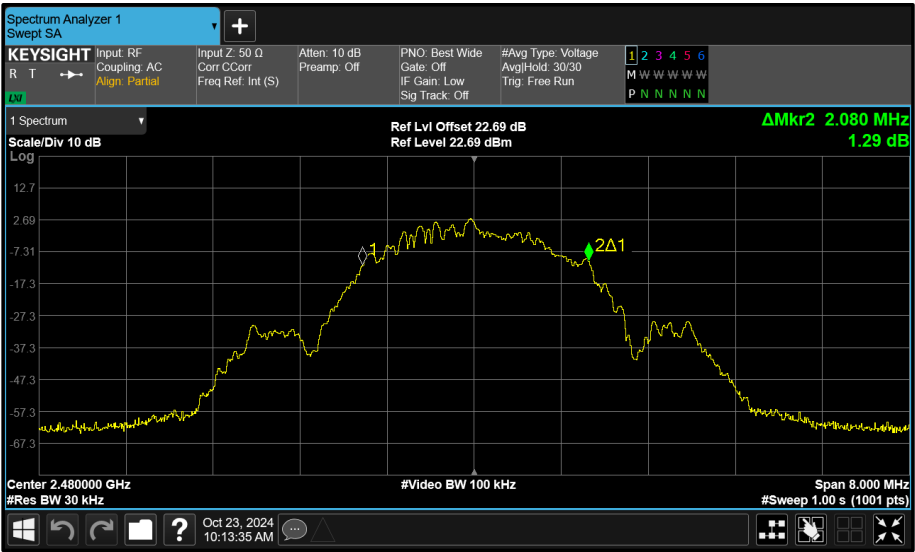


Figure 117 - Core 2 (C) 2480 MHz (CH39) 99% Bandwidth

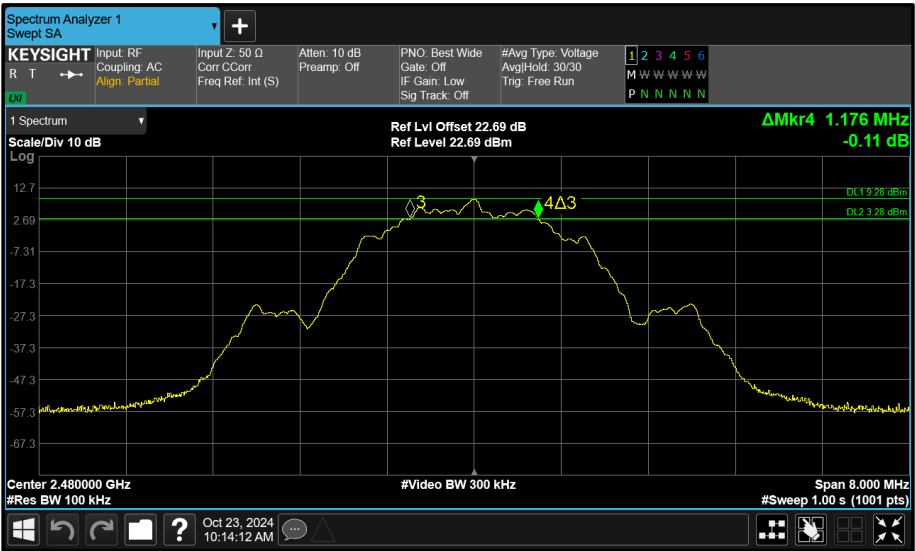


Figure 118 - Core 2 (C) 2480 MHz (CH39) 6 dB Bandwidth



| Test Configuration       |                                 |                 |                               |
|--------------------------|---------------------------------|-----------------|-------------------------------|
| Frequency Range:         | 2400-2483.5 MHz                 | Band:           | 2.4 GHz                       |
| Limit Clause(s):         | 15.247 (a)(2)<br>RSS-247 5.2 a) | Test Method(s): | C63.10 6.9.3<br>C63.10 11.8.1 |
| Additional Reference(s): | -                               |                 |                               |

| DUT Configuration      |                           |                          |   |
|------------------------|---------------------------|--------------------------|---|
| Mode:                  | ePA $\pi/4$ DQPSK (4-DH5) | Duty Cycle (%):          | - |
| Antenna Configuration: | SISO                      | DCCF (dB):               | - |
| Active Port(s):        | B (Core 1)                | Peak Antenna Gain (dBi): | - |

| Test Frequency (MHz) | 6 dB Bandwidth (MHz) |       |   |   | Limit (kHz)  |
|----------------------|----------------------|-------|---|---|--------------|
|                      | A                    | B     | C | D |              |
| 2404                 | -                    | 1.592 | - | - | $\geq 500.0$ |
| 2441                 | -                    | 1.904 | - | - | $\geq 500.0$ |
| 2476                 | -                    | 1.904 | - | - | $\geq 500.0$ |

**Table 33 - 6 dB Bandwidth Results**

| Test Frequency (MHz) | 99% Bandwidth (MHz) |       |   |   | Limit (kHz) |
|----------------------|---------------------|-------|---|---|-------------|
|                      | A                   | B     | C | D |             |
| 2404                 | -                   | 2.320 | - | - | -           |
| 2441                 | -                   | 2.328 | - | - | -           |
| 2476                 | -                   | 2.328 | - | - | -           |

**Table 34 - 99% Bandwidth Results**

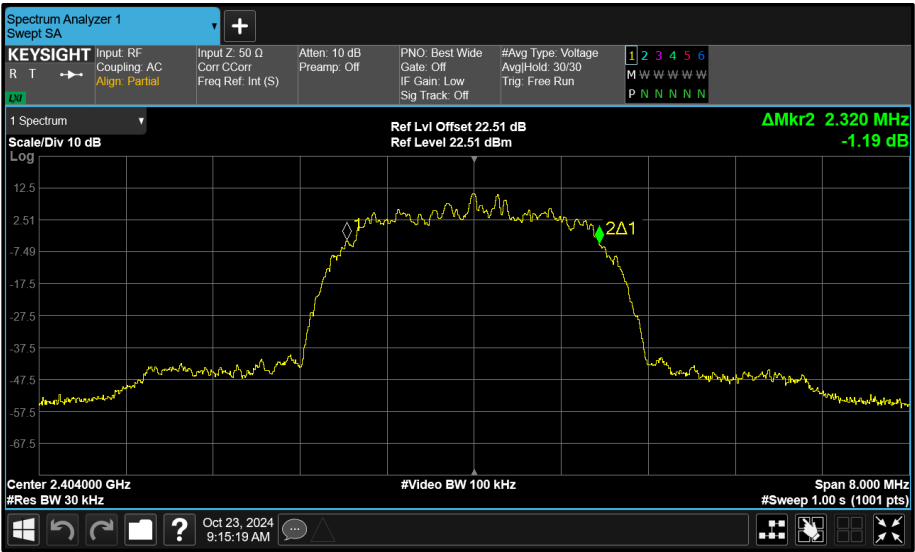


Figure 119 - Core 1 (B) 2404 MHz (CH2) 99% Bandwidth

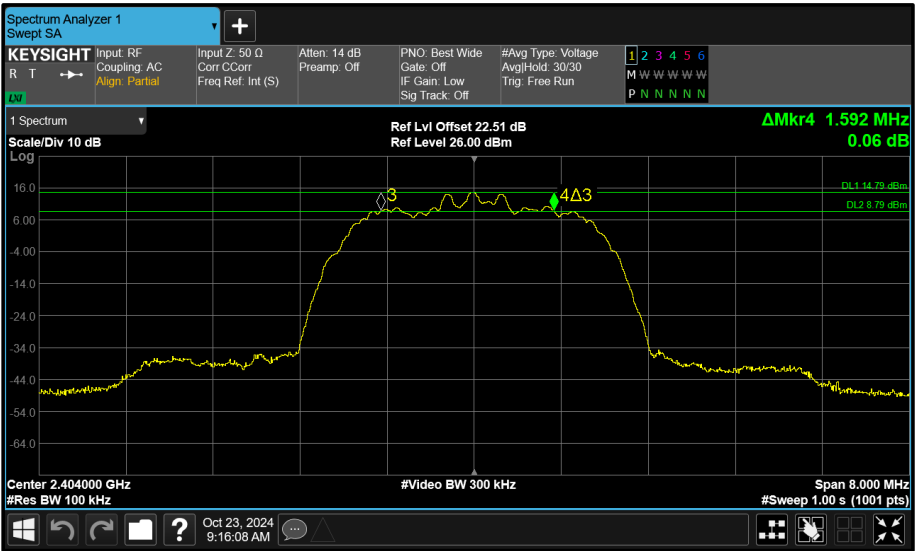


Figure 120 - Core 1 (B) 2404 MHz (CH2) 6 dB Bandwidth

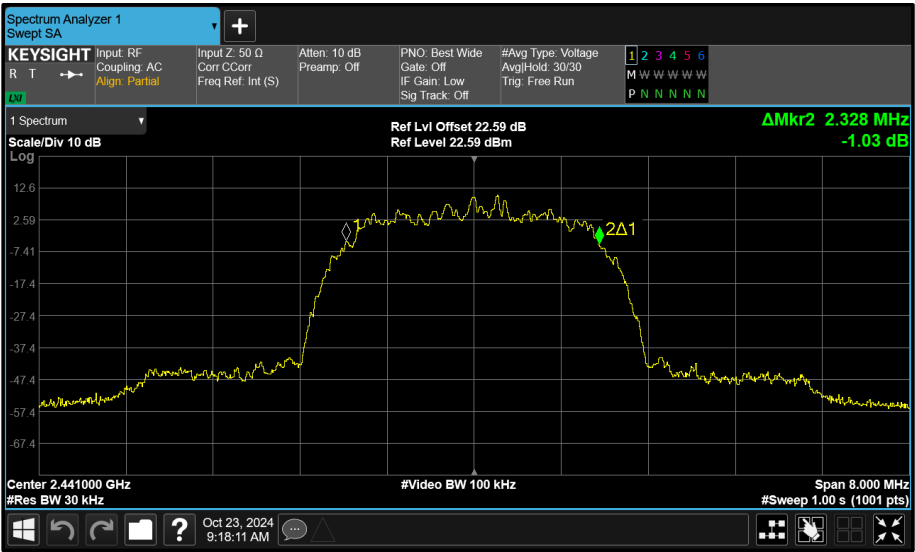


Figure 121 - Core 1 (B) 2441 MHz (CH39) 99% Bandwidth

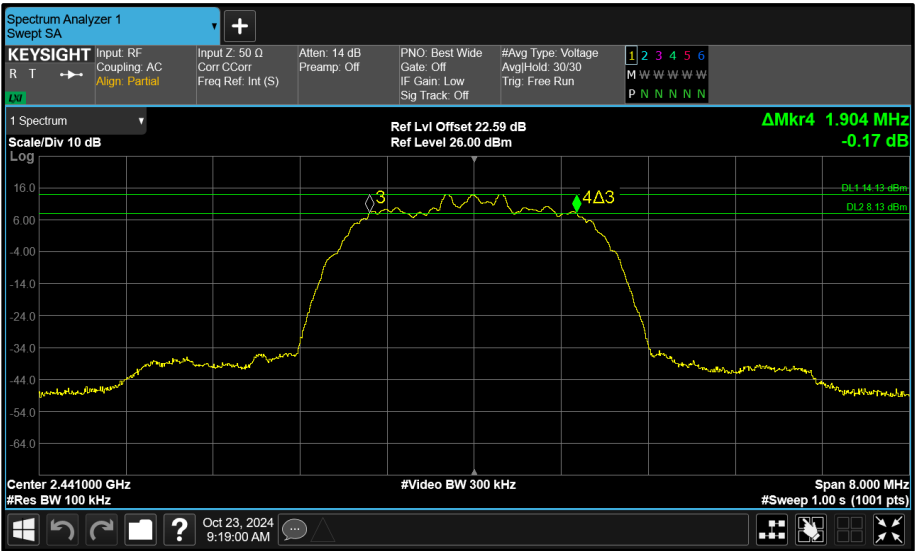


Figure 122 - Core 1 (B) 2441 MHz (CH39) 6 dB Bandwidth

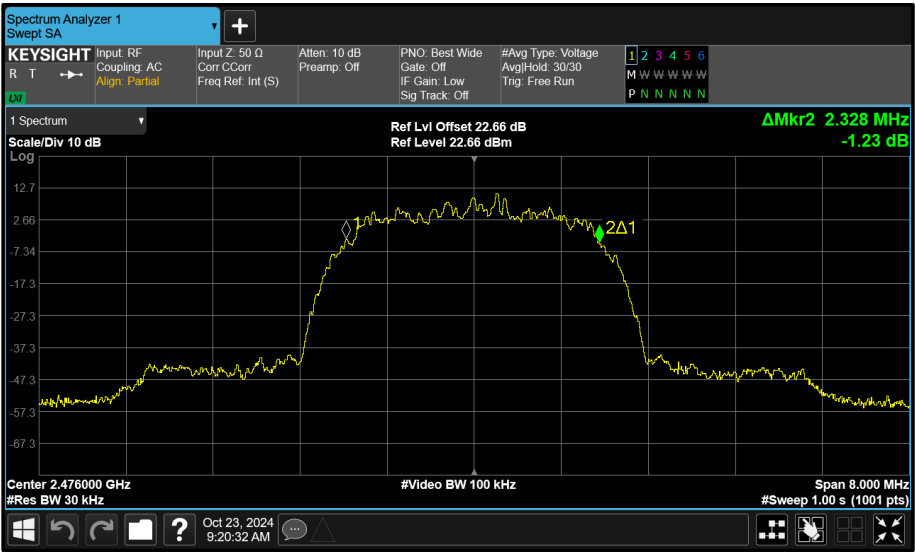


Figure 123 - Core 1 (B) 2476 MHz (CH74) 99% Bandwidth

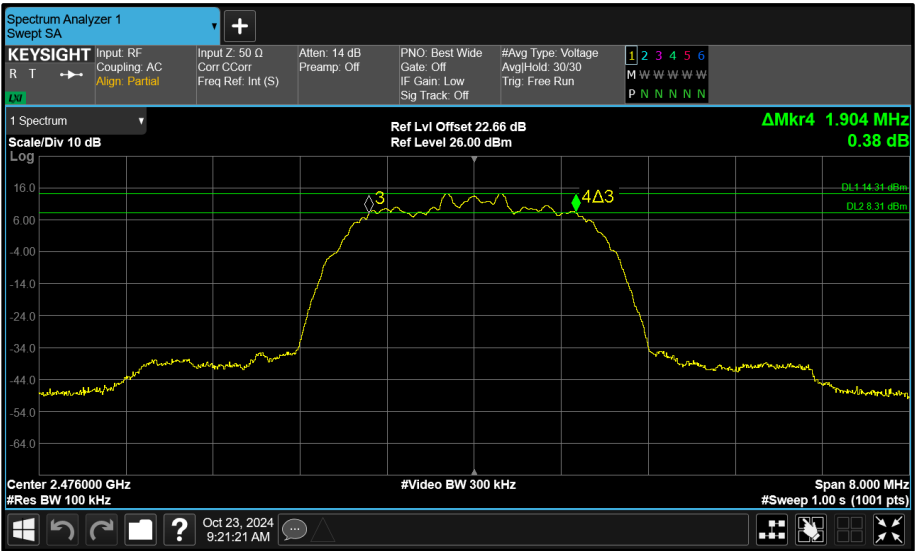


Figure 124 - Core 1 (B) 2476 MHz (CH74) 6 dB Bandwidth



| Test Configuration       |                                 |                 |                               |
|--------------------------|---------------------------------|-----------------|-------------------------------|
| Frequency Range:         | 2400-2483.5 MHz                 | Band:           | 2.4 GHz                       |
| Limit Clause(s):         | 15.247 (a)(2)<br>RSS-247 5.2 a) | Test Method(s): | C63.10 6.9.3<br>C63.10 11.8.1 |
| Additional Reference(s): | -                               |                 |                               |

| DUT Configuration      |                           |                          |   |
|------------------------|---------------------------|--------------------------|---|
| Mode:                  | ePA $\pi/4$ DQPSK (8-DH5) | Duty Cycle (%):          | - |
| Antenna Configuration: | SISO                      | DCCF (dB):               | - |
| Active Port(s):        | B (Core 1)                | Peak Antenna Gain (dBi): | - |

| Test Frequency (MHz) | 6 dB Bandwidth (MHz) |       |   |   | Limit (kHz)  |
|----------------------|----------------------|-------|---|---|--------------|
|                      | A                    | B     | C | D |              |
| 2404                 | -                    | 0.660 | - | - | $\geq 500.0$ |
| 2441                 | -                    | 1.035 | - | - | $\geq 500.0$ |
| 2476                 | -                    | 1.035 | - | - | $\geq 500.0$ |

**Table 35 - 6 dB Bandwidth Results**

| Test Frequency (MHz) | 99% Bandwidth (MHz) |       |   |   | Limit (kHz) |
|----------------------|---------------------|-------|---|---|-------------|
|                      | A                   | B     | C | D |             |
| 2404                 | -                   | 4.620 | - | - | -           |
| 2441                 | -                   | 4.620 | - | - | -           |
| 2476                 | -                   | 4.635 | - | - | -           |

**Table 36 - 99% Bandwidth Results**

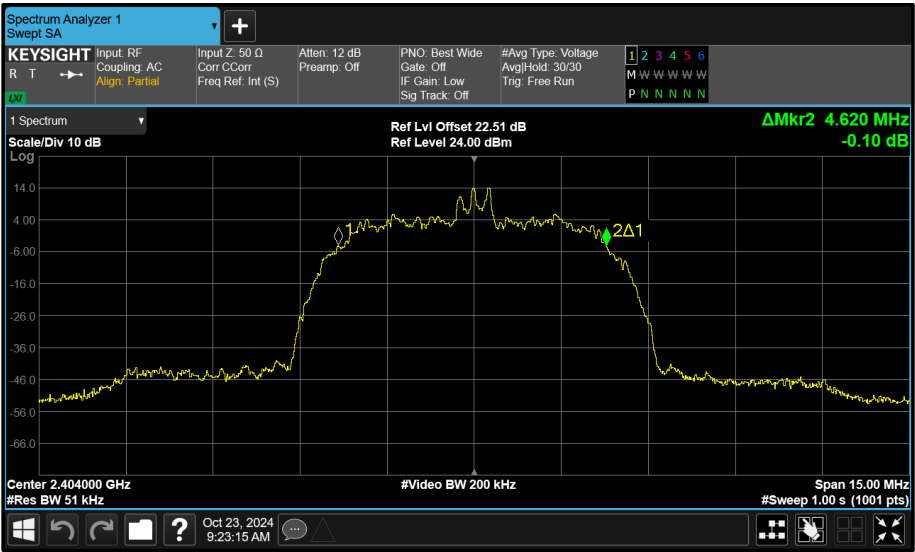


Figure 125 - Core 1 (B) 2404 MHz (CH2) 99% Bandwidth

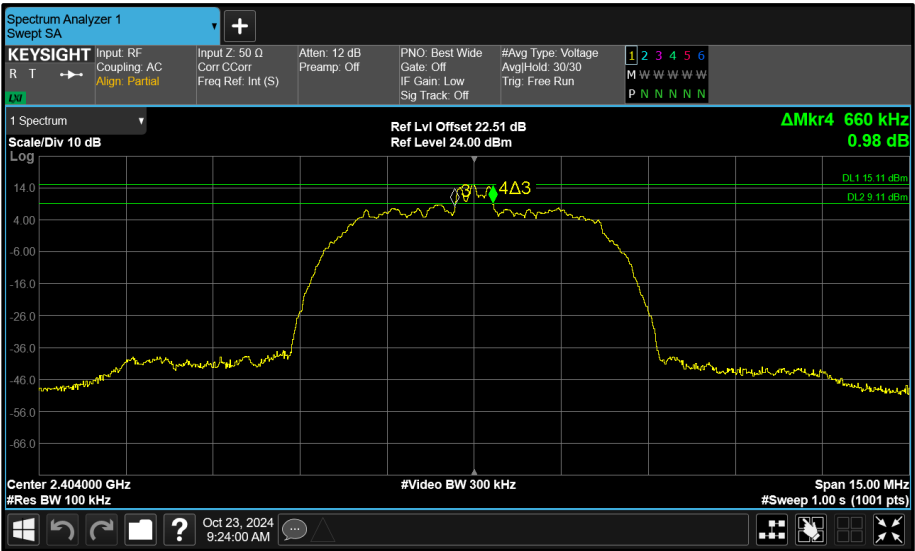


Figure 126 - Core 1 (B) 2404 MHz (CH2) 6 dB Bandwidth

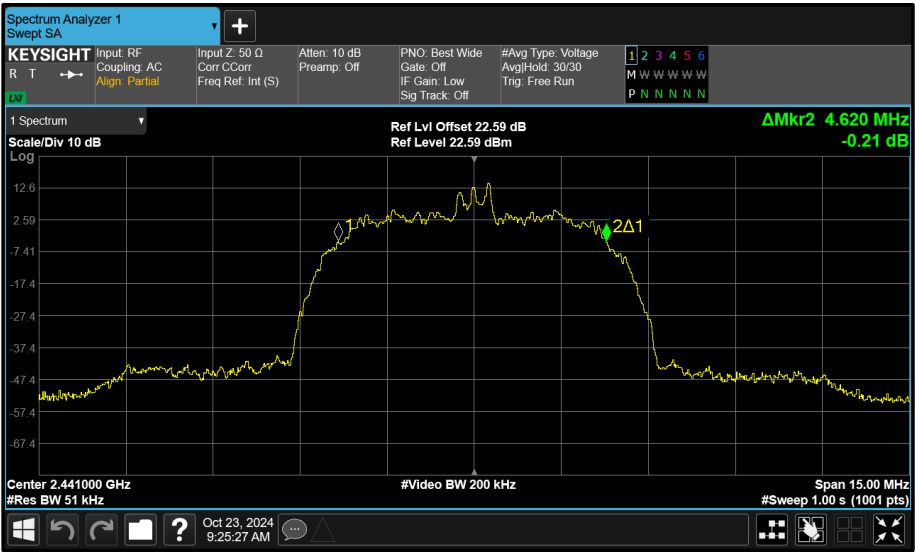


Figure 127 - Core 1 (B) 2441 MHz (CH39) 99% Bandwidth

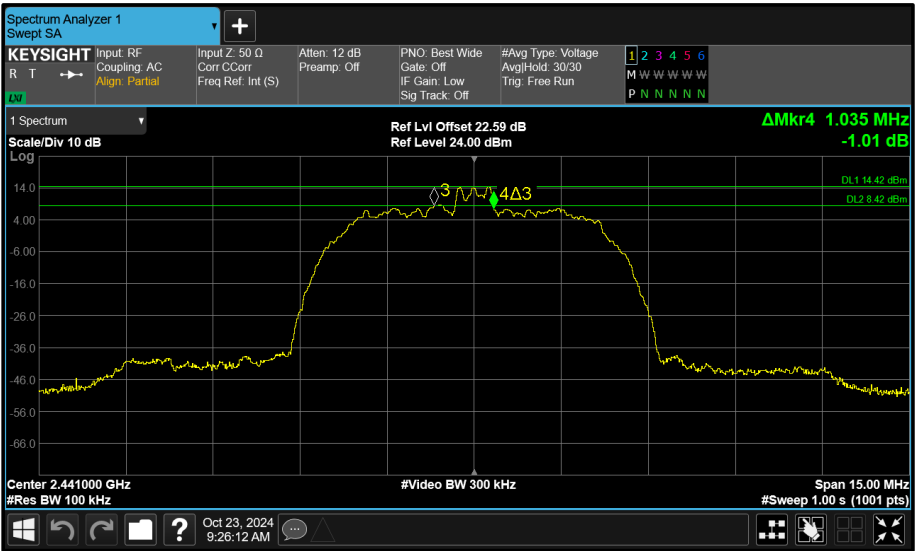


Figure 128 - Core 1 (B) 2441 MHz (CH39) 6 dB Bandwidth

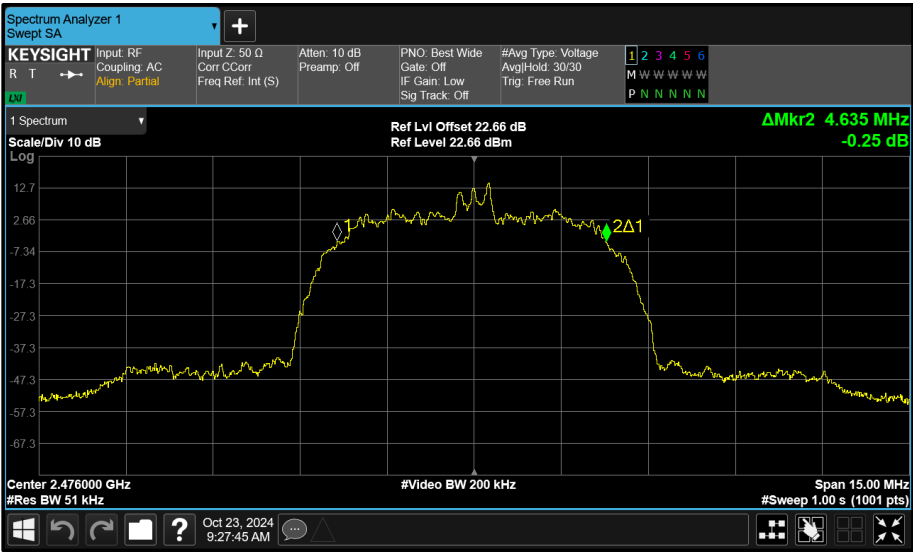


Figure 129 - Core 1 (B) 2476 MHz (CH74) 99% Bandwidth

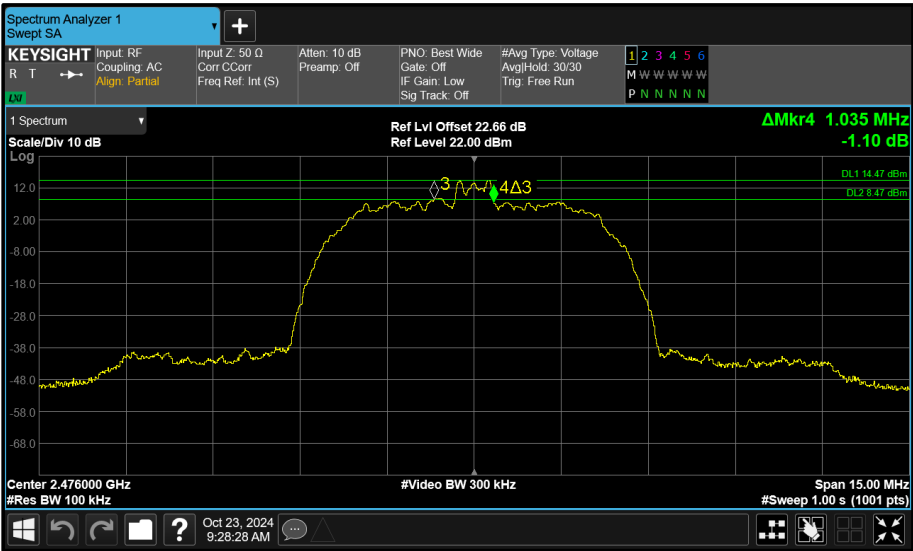


Figure 130 - Core 1 (B) 2476 MHz (CH74) 6 dB Bandwidth



| Test Configuration       |                                 |                 |                               |
|--------------------------|---------------------------------|-----------------|-------------------------------|
| Frequency Range:         | 2400-2483.5 MHz                 | Band:           | 2.4 GHz                       |
| Limit Clause(s):         | 15.247 (a)(2)<br>RSS-247 5.2 a) | Test Method(s): | C63.10 6.9.3<br>C63.10 11.8.1 |
| Additional Reference(s): | -                               |                 |                               |

| DUT Configuration      |                  |                          |   |
|------------------------|------------------|--------------------------|---|
| Mode:                  | ePA GFSK (LE 1M) | Duty Cycle (%):          | - |
| Antenna Configuration: | SISO             | DCCF (dB):               | - |
| Active Port(s):        | B (Core 1)       | Peak Antenna Gain (dBi): | - |

| Test Frequency (MHz) | 6 dB Bandwidth (MHz) |       |   |   | Limit (kHz) |
|----------------------|----------------------|-------|---|---|-------------|
|                      | A                    | B     | C | D |             |
| 2402                 | -                    | 0.704 | - | - | ≥500.0      |
| 2440                 | -                    | 0.716 | - | - | ≥500.0      |
| 2480                 | -                    | 0.724 | - | - | ≥500.0      |

**Table 37 - 6 dB Bandwidth Results**

| Test Frequency (MHz) | 99% Bandwidth (MHz) |       |   |   | Limit (kHz) |
|----------------------|---------------------|-------|---|---|-------------|
|                      | A                   | B     | C | D |             |
| 2402                 | -                   | 1.028 | - | - | -           |
| 2440                 | -                   | 1.028 | - | - | -           |
| 2480                 | -                   | 1.040 | - | - | -           |

**Table 38 - 99% Bandwidth Results**

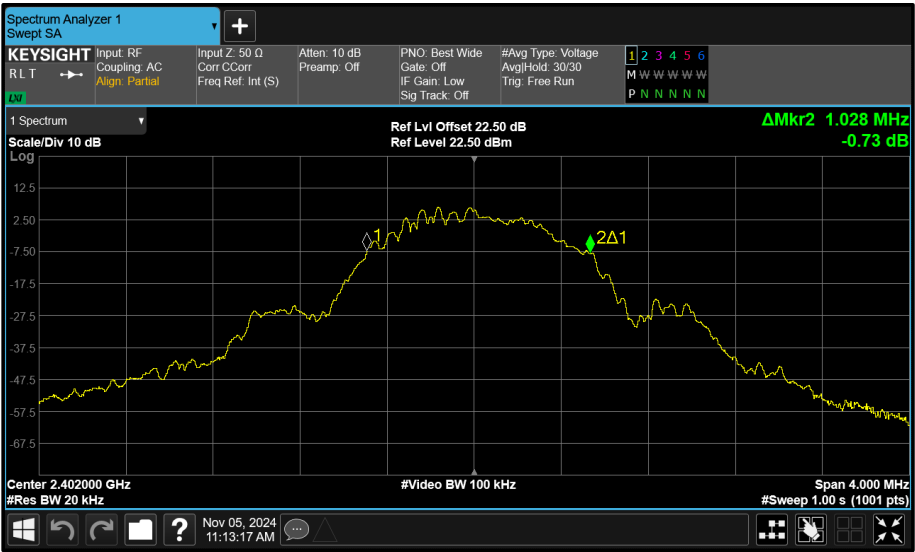


Figure 131 - Core 1 (B) 2402 MHz (CH37) 99% Bandwidth

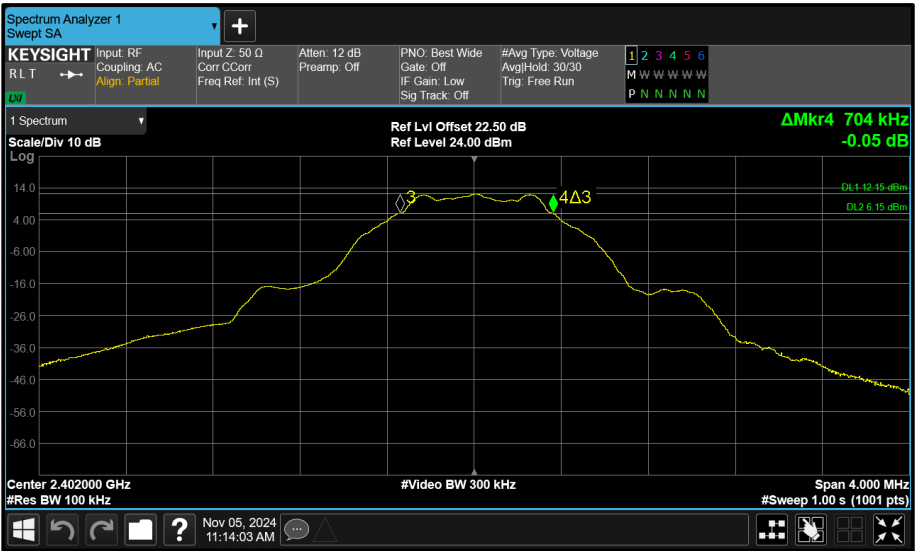


Figure 132 - Core 1 (B) 2402 MHz (CH37) 6 dB Bandwidth

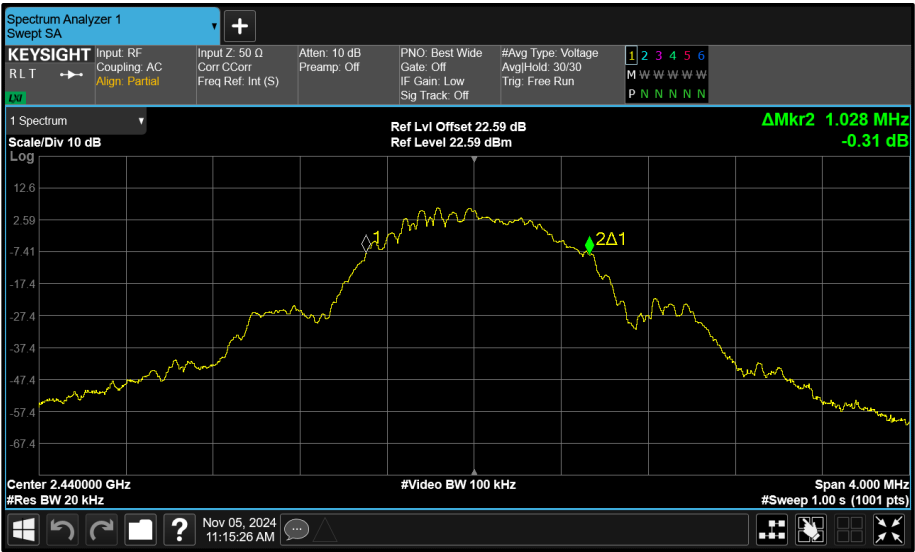


Figure 133 - Core 1 (B) 2440 MHz (CH17) 99% Bandwidth

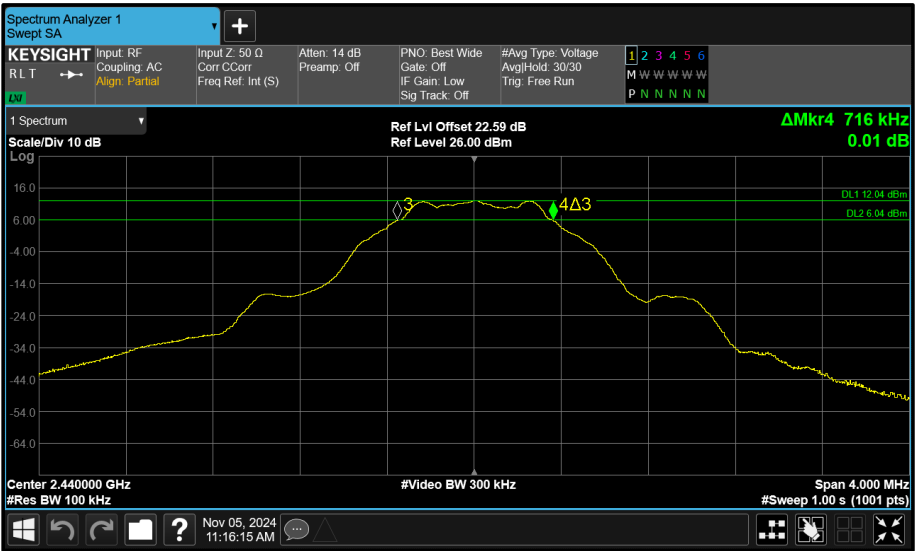


Figure 134 - Core 1 (B) 2440 MHz (CH17) 6 dB Bandwidth

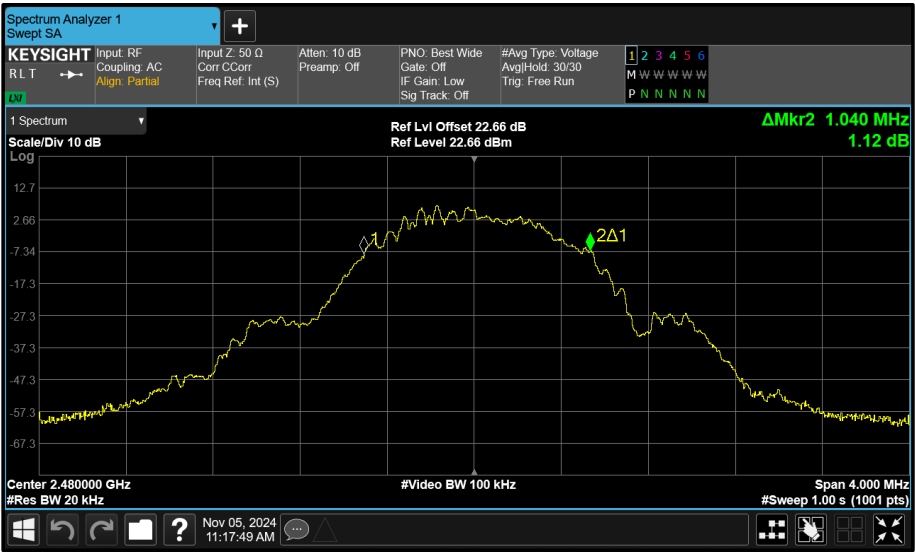


Figure 135 - Core 1 (B) 2480 MHz (CH39) 99% Bandwidth

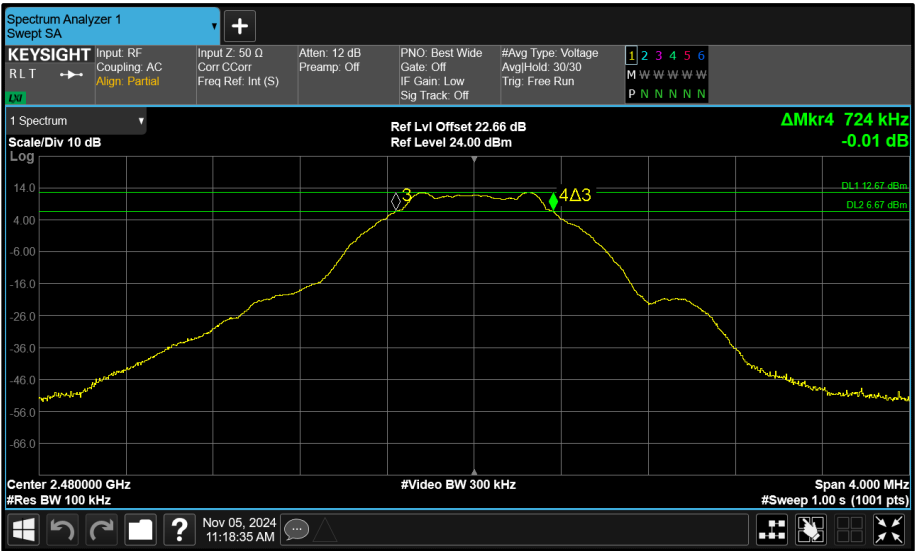


Figure 136 - Core 1 (B) 2480 MHz (CH39) 6 dB Bandwidth



| Test Configuration       |                                 |                 |                               |
|--------------------------|---------------------------------|-----------------|-------------------------------|
| Frequency Range:         | 2400-2483.5 MHz                 | Band:           | 2.4 GHz                       |
| Limit Clause(s):         | 15.247 (a)(2)<br>RSS-247 5.2 a) | Test Method(s): | C63.10 6.9.3<br>C63.10 11.8.1 |
| Additional Reference(s): | -                               |                 |                               |

| DUT Configuration      |                  |                          |   |
|------------------------|------------------|--------------------------|---|
| Mode:                  | ePA GFSK (LE 2M) | Duty Cycle (%):          | - |
| Antenna Configuration: | SISO             | DCCF (dB):               | - |
| Active Port(s):        | B (Core 1)       | Peak Antenna Gain (dBi): | - |

| Test Frequency (MHz) | 6 dB Bandwidth (MHz) |       |   |   | Limit (kHz) |
|----------------------|----------------------|-------|---|---|-------------|
|                      | A                    | B     | C | D |             |
| 2402                 | -                    | 1.176 | - | - | ≥500.0      |
| 2440                 | -                    | 1.240 | - | - | ≥500.0      |
| 2480                 | -                    | 1.400 | - | - | ≥500.0      |

**Table 39 - 6 dB Bandwidth Results**

| Test Frequency (MHz) | 99% Bandwidth (MHz) |       |   |   | Limit (kHz) |
|----------------------|---------------------|-------|---|---|-------------|
|                      | A                   | B     | C | D |             |
| 2402                 | -                   | 2.072 | - | - | -           |
| 2440                 | -                   | 2.072 | - | - | -           |
| 2480                 | -                   | 2.096 | - | - | -           |

**Table 40 - 99% Bandwidth Results**

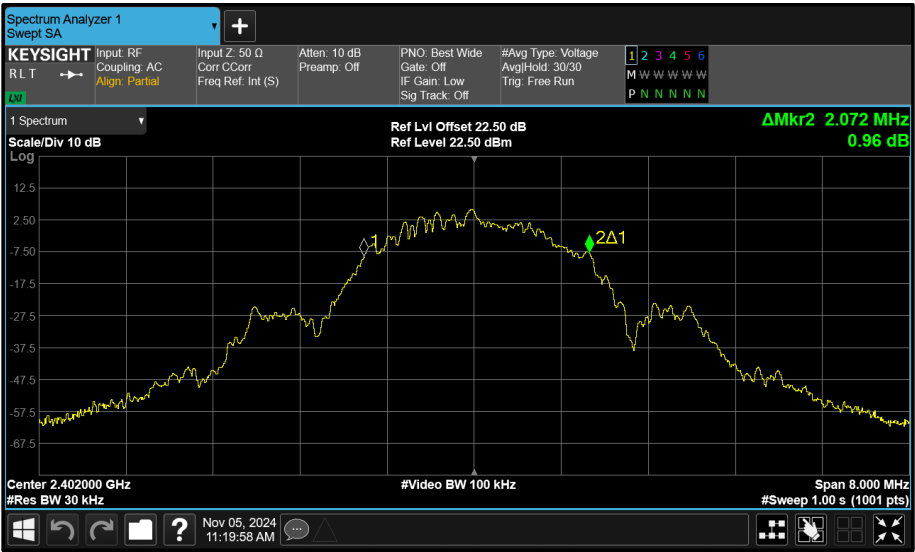


Figure 137 - Core 1 (B) 2402 MHz (CH37) 99% Bandwidth

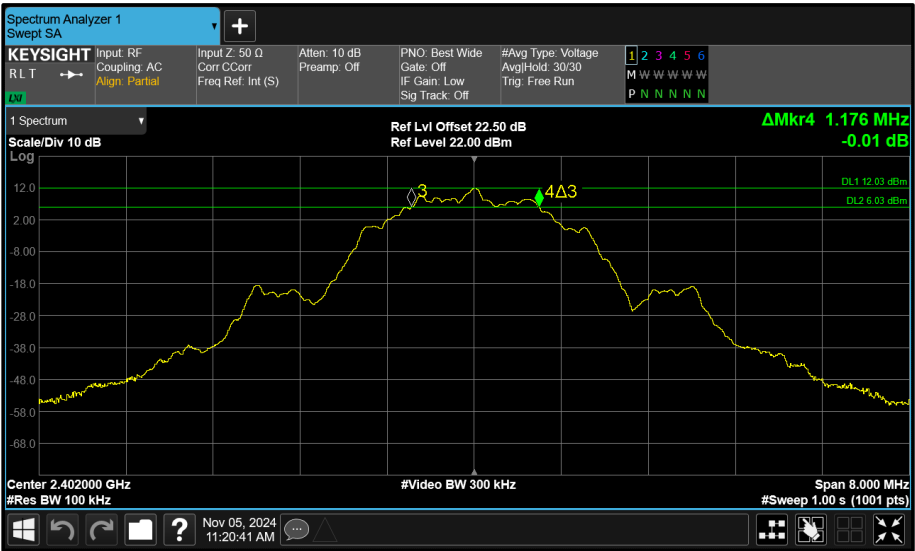


Figure 138 - Core 1 (B) 2402 MHz (CH37) 6 dB Bandwidth

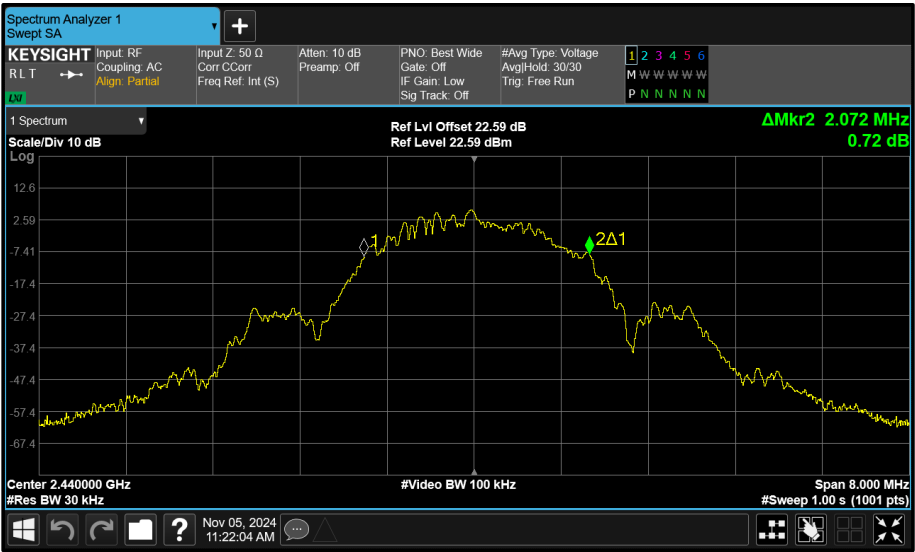


Figure 139 - Core 1 (B) 2440 MHz (CH17) 99% Bandwidth

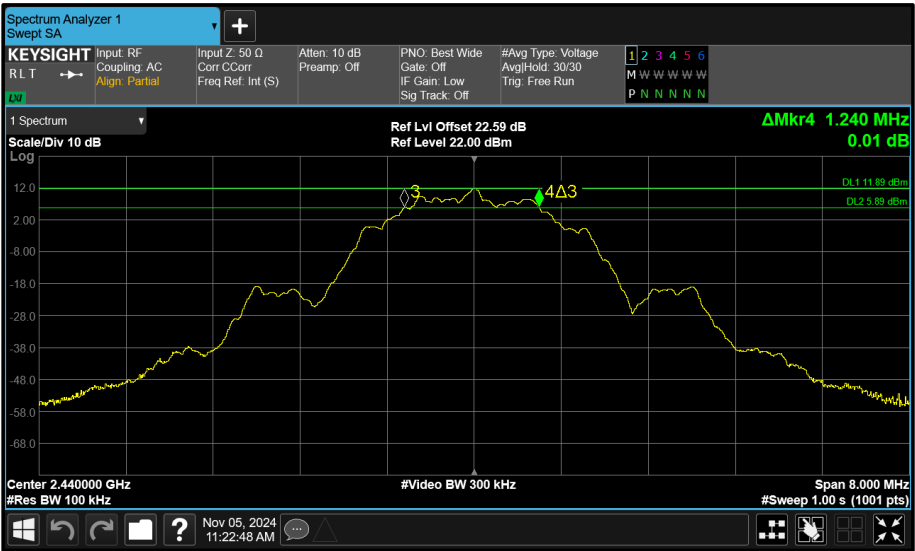


Figure 140 - Core 1 (B) 2440 MHz (CH17) 6 dB Bandwidth

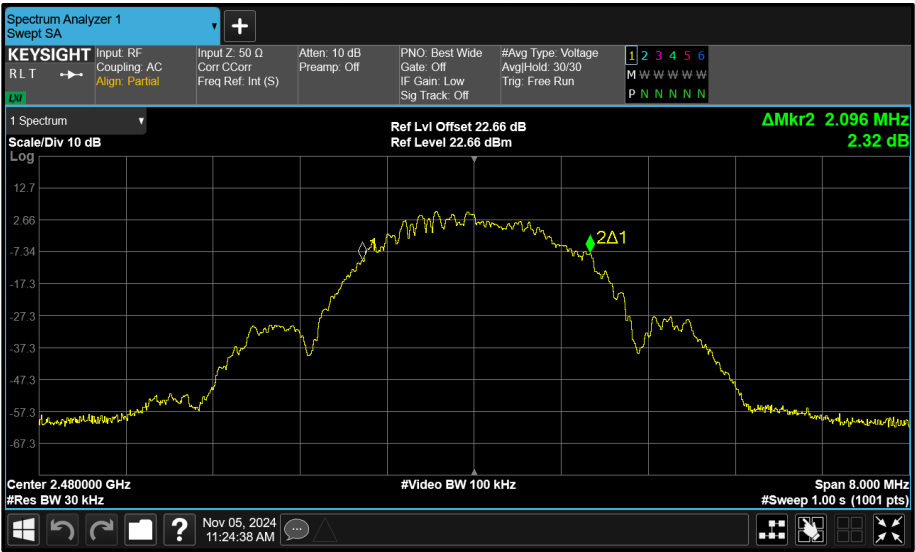


Figure 141 - Core 1 (B) 2480 MHz (CH39) 99% Bandwidth

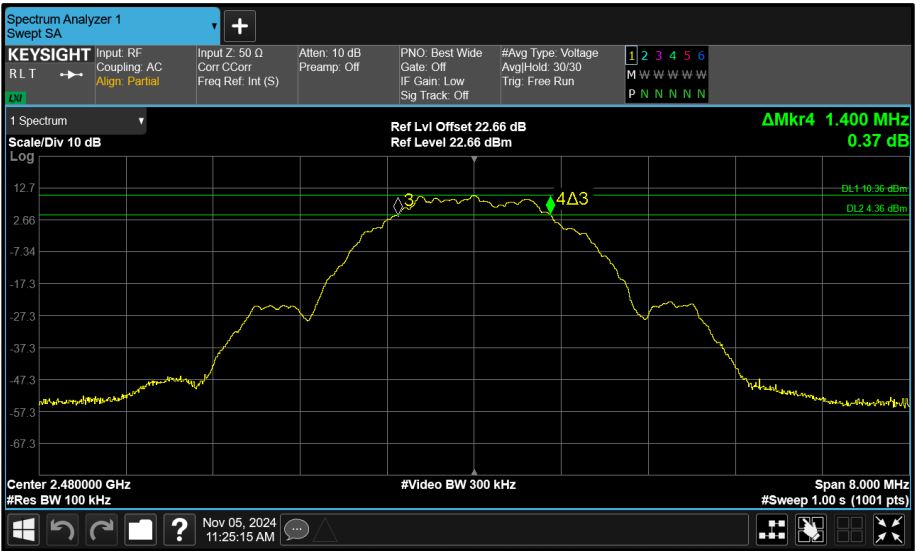


Figure 142 - Core 1 (B) 2480 MHz (CH39) 6 dB Bandwidth



| Test Configuration       |                                 |                 |                               |
|--------------------------|---------------------------------|-----------------|-------------------------------|
| Frequency Range:         | 2400-2483.5 MHz                 | Band:           | 2.4 GHz                       |
| Limit Clause(s):         | 15.247 (a)(2)<br>RSS-247 5.2 a) | Test Method(s): | C63.10 6.9.3<br>C63.10 11.8.1 |
| Additional Reference(s): | -                               |                 |                               |

| DUT Configuration      |                           |                          |   |
|------------------------|---------------------------|--------------------------|---|
| Mode:                  | iPA $\pi/4$ DQPSK (4-DH5) | Duty Cycle (%):          | - |
| Antenna Configuration: | Beamforming               | DCCF (dB):               | - |
| Active Port(s):        | A+B (Core 0 + Core 1)     | Peak Antenna Gain (dBi): | - |

| Test Frequency (MHz) | 6 dB Bandwidth (MHz) |       |   |   | Limit (kHz)  |
|----------------------|----------------------|-------|---|---|--------------|
|                      | A                    | B     | C | D |              |
| 2404                 | 1.912                | 1.584 | - | - | $\geq 500.0$ |
| 2441                 | 1.896                | 1.904 | - | - | $\geq 500.0$ |
| 2476                 | 1.912                | 1.904 | - | - | $\geq 500.0$ |

**Table 41 - 6 dB Bandwidth Results**

| Test Frequency (MHz) | 99% Bandwidth (MHz) |       |   |   | Limit (kHz) |
|----------------------|---------------------|-------|---|---|-------------|
|                      | A                   | B     | C | D |             |
| 2404                 | 2.344               | 2.320 | - | - | -           |
| 2441                 | 2.352               | 2.328 | - | - | -           |
| 2476                 | 2.344               | 2.328 | - | - | -           |

**Table 42 - 99% Bandwidth Results**

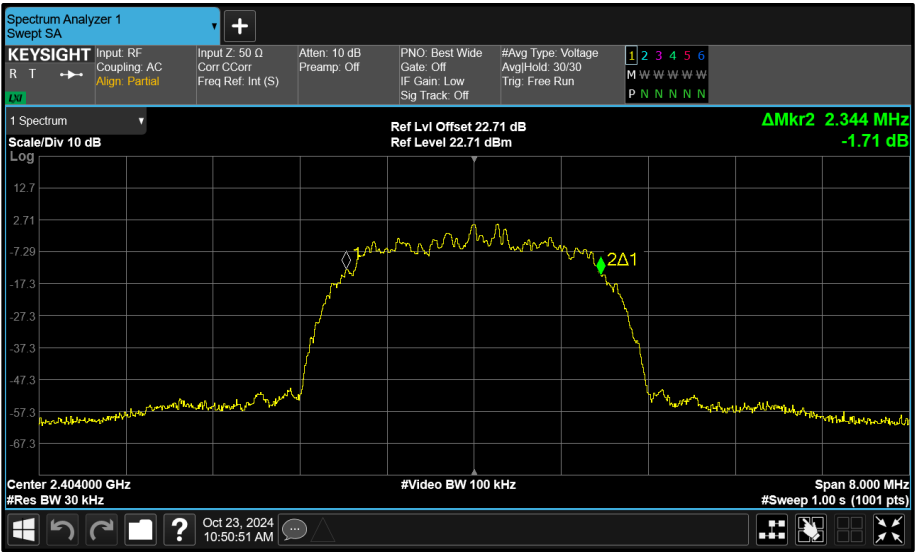


Figure 143 - Core 0 (A) 2404 MHz (CH2) 99% Bandwidth

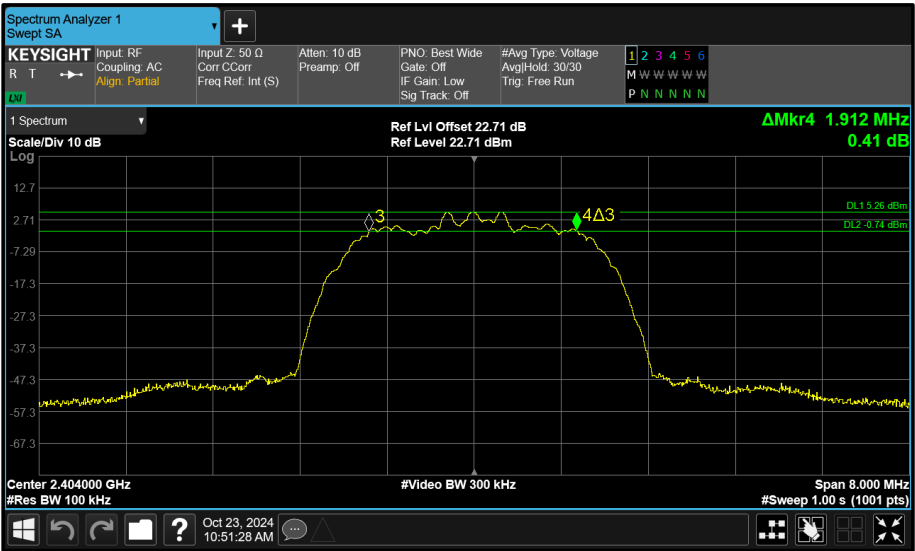


Figure 144 - Core 0 (A) 2404 MHz (CH2) 6 dB Bandwidth

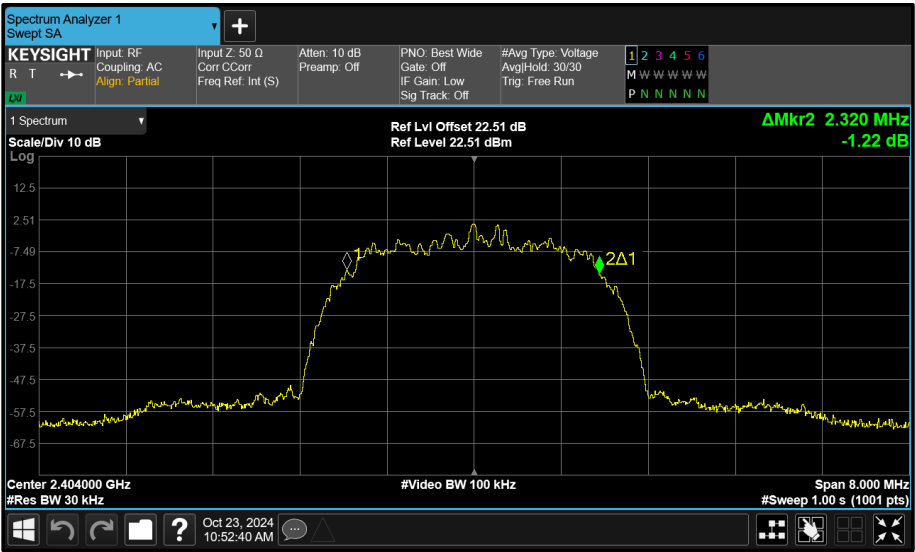


Figure 145 - Core 1 (B) 2404 MHz (CH2) 99% Bandwidth

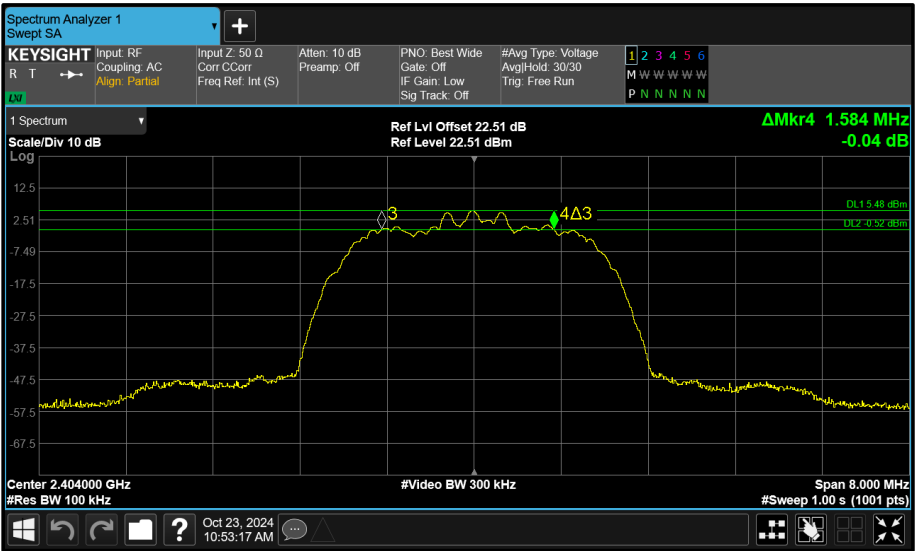


Figure 146 - Core 1 (B) 2404 MHz (CH2) 6 dB Bandwidth

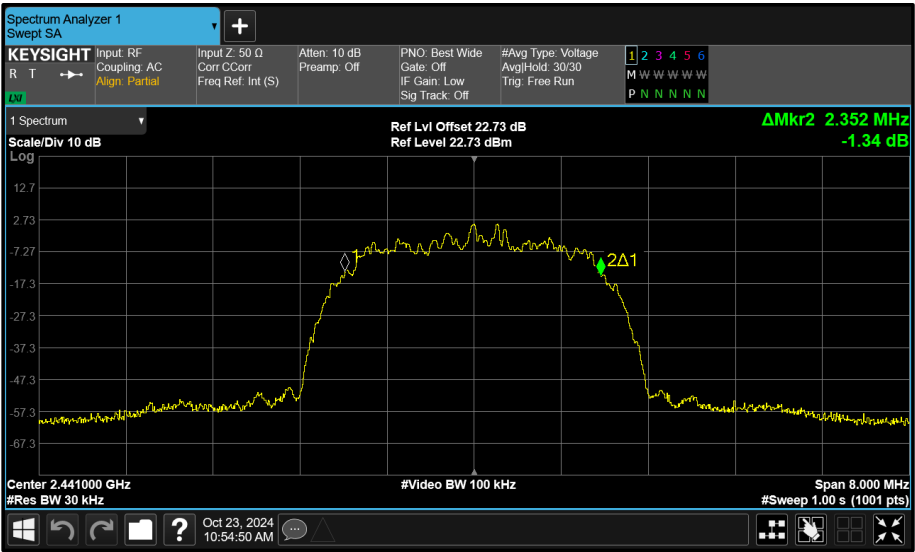


Figure 147 - Core 0 (A) 2441 MHz (CH39) 99% Bandwidth

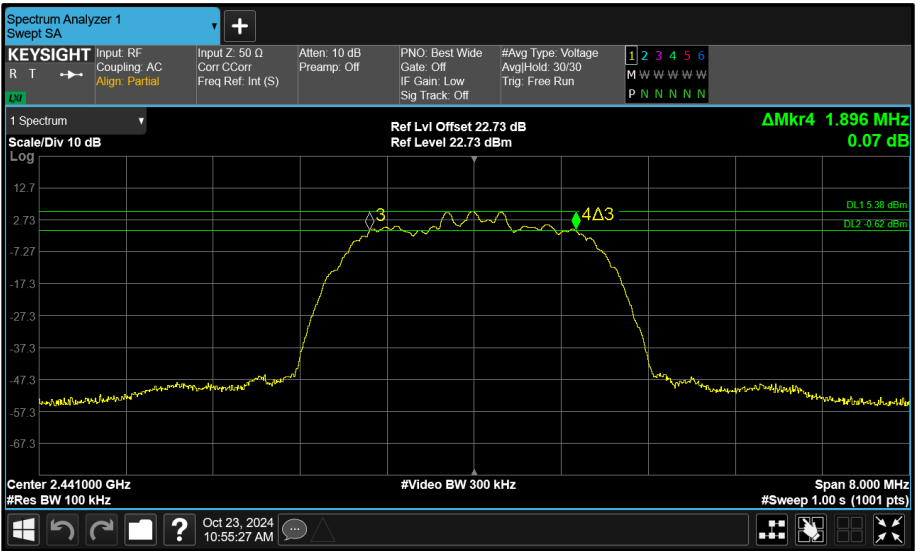


Figure 148 - Core 0 (A) 2441 MHz (CH39) 6 dB Bandwidth

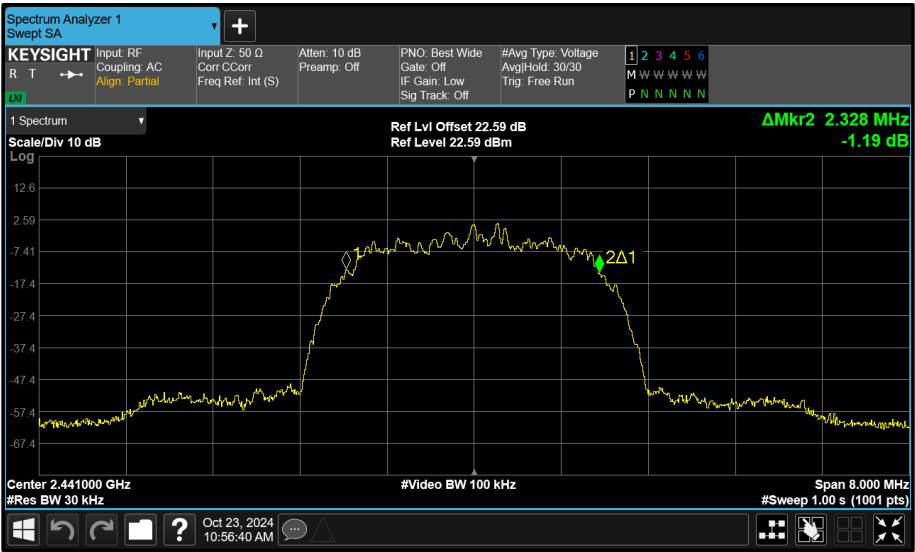


Figure 149 - Core 1 (B) 2441 MHz (CH39) 99% Bandwidth

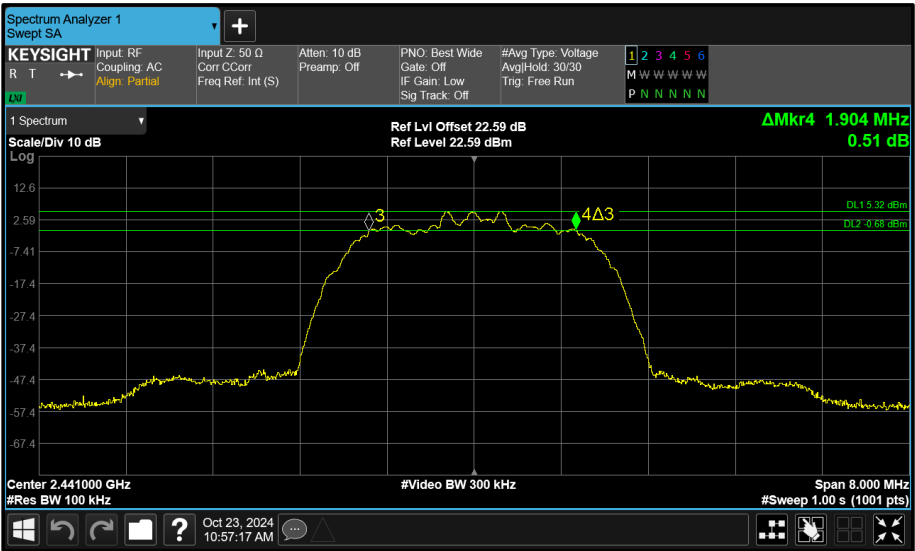


Figure 150 - Core 1 (B) 2441 MHz (CH39) 6 dB Bandwidth

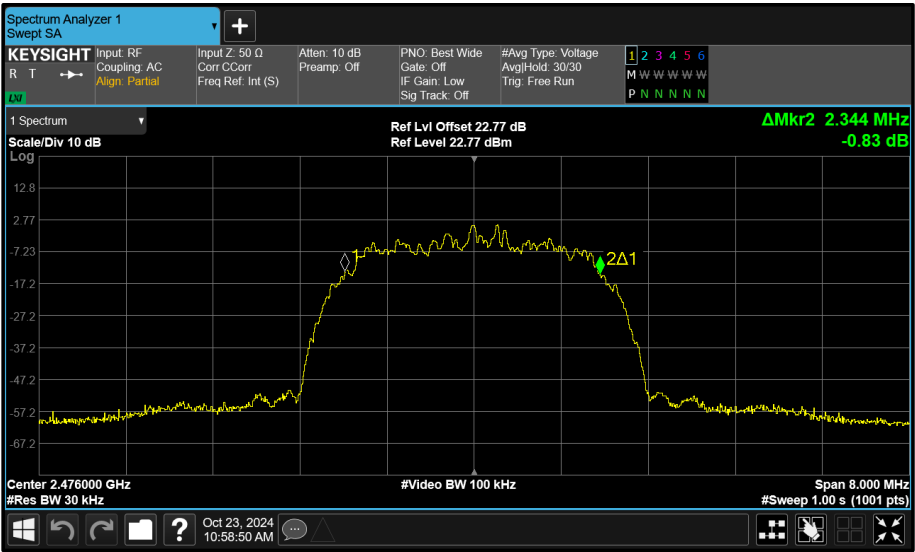


Figure 151 - Core 0 (A) 2476 MHz (CH74) 99% Bandwidth

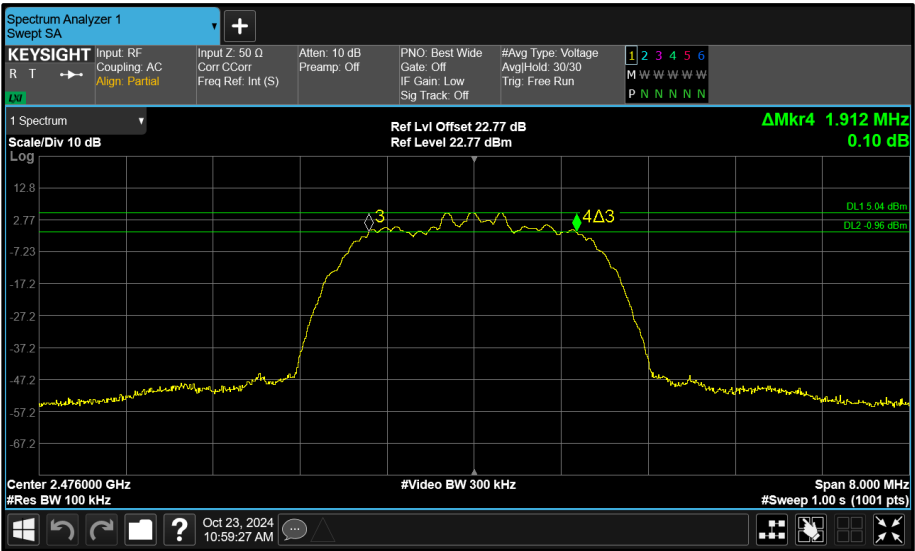


Figure 152 - Core 0 (A) 2476 MHz (CH74) 6 dB Bandwidth