

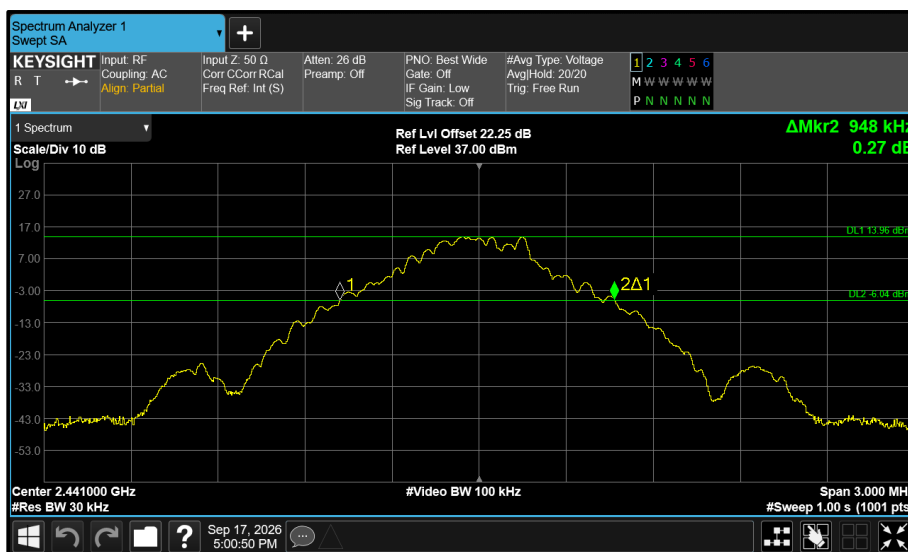


Figure 75 - Core 1 (B) 2441 MHz (CH39) 20 dB Bandwidth

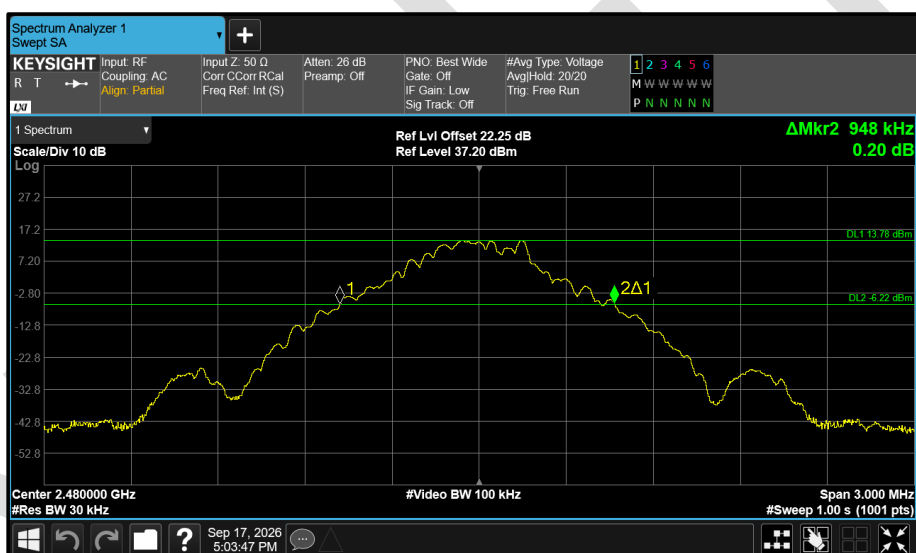


Figure 76 - Core 0 (A) 2480 MHz (CH78) 20 dB Bandwidth

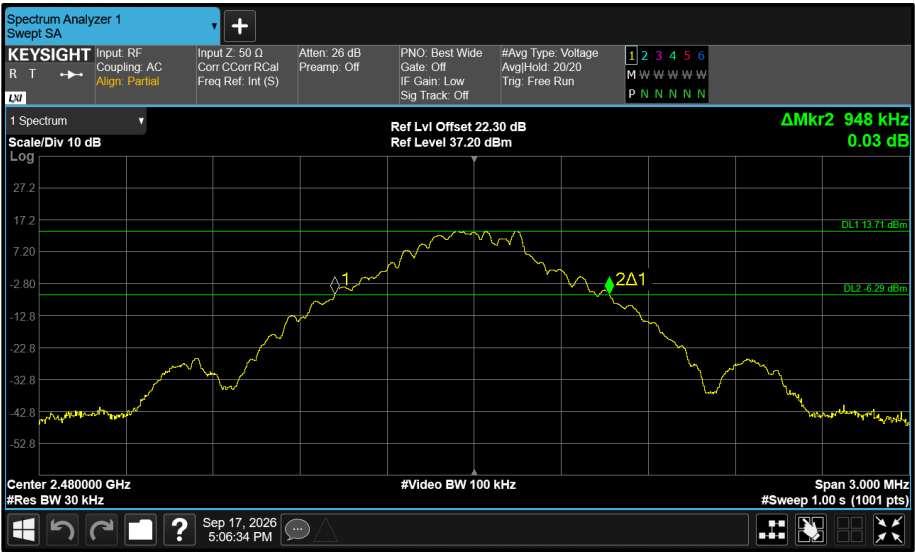


Figure 77 - Core 1 (B) 2480 MHz (CH78) 20 dB Bandwidth

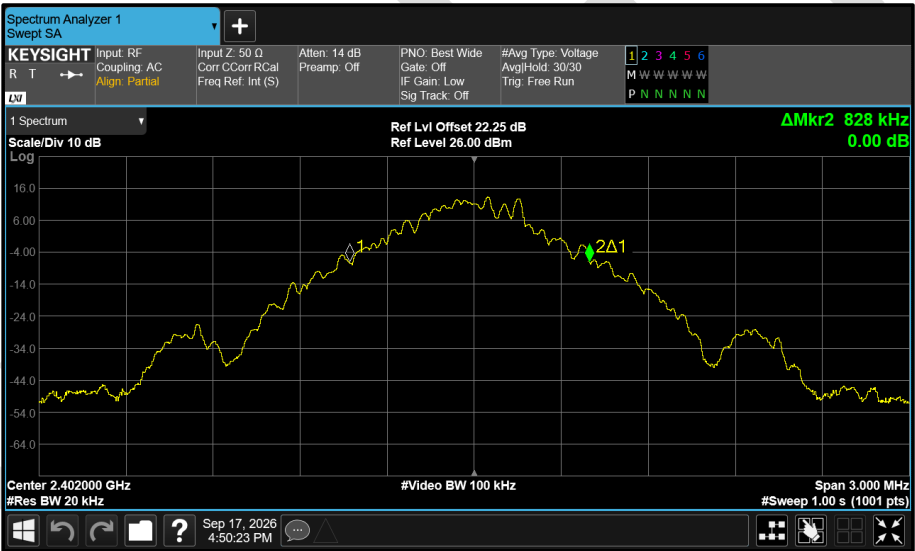


Figure 78 - Core 0 (A) 2402 MHz (CH0) 99% Bandwidth

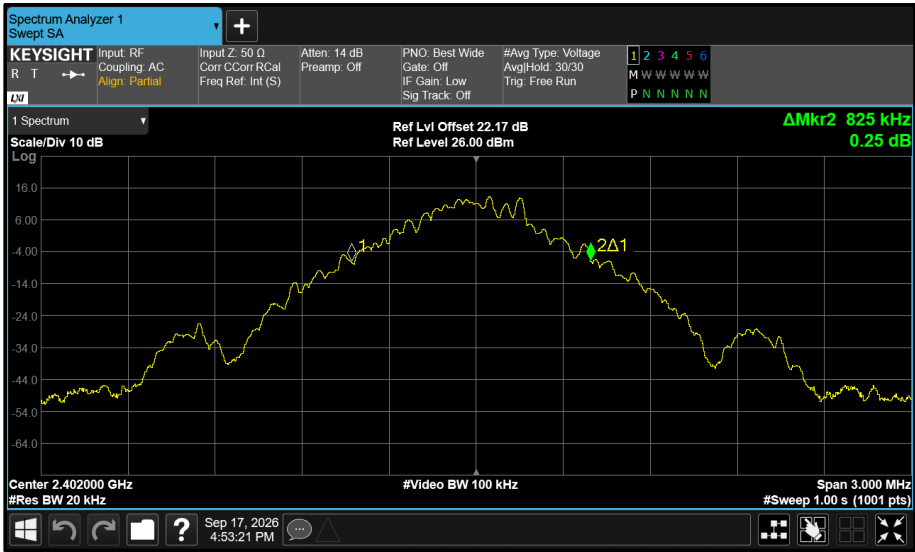


Figure 79 - Core 1 (B) 2402 MHz (CH0) 99% Bandwidth

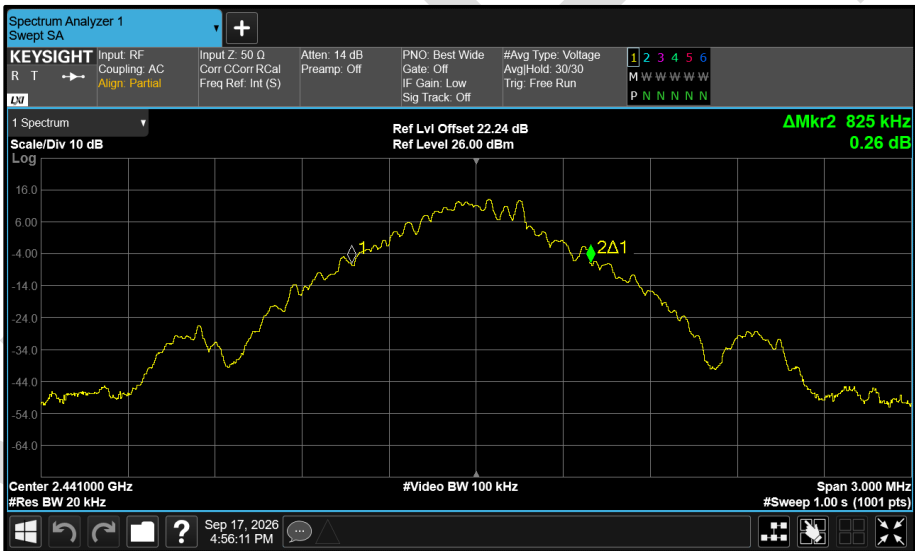


Figure 80 - Core 0 (A) 2441 MHz (CH39) 99% Bandwidth

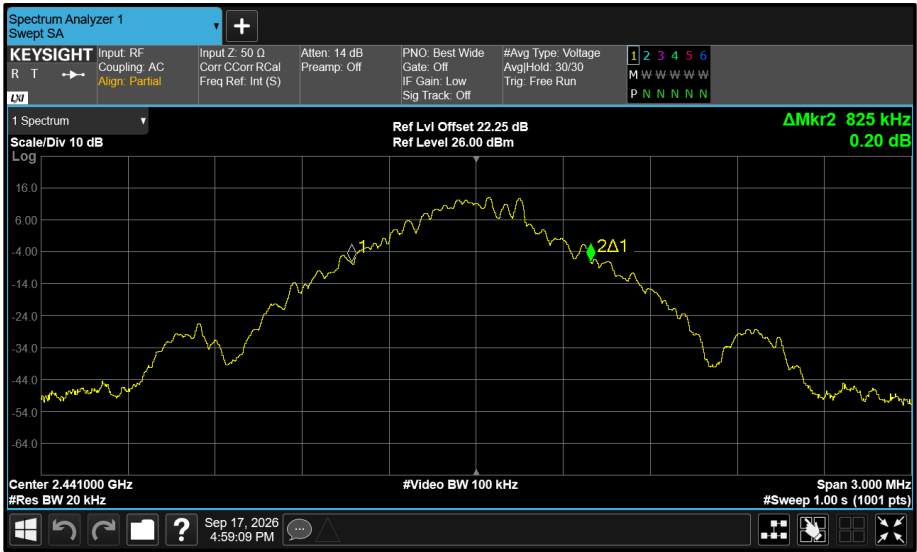


Figure 81 - Core 1 (B) 2441 MHz (CH39) 99% Bandwidth

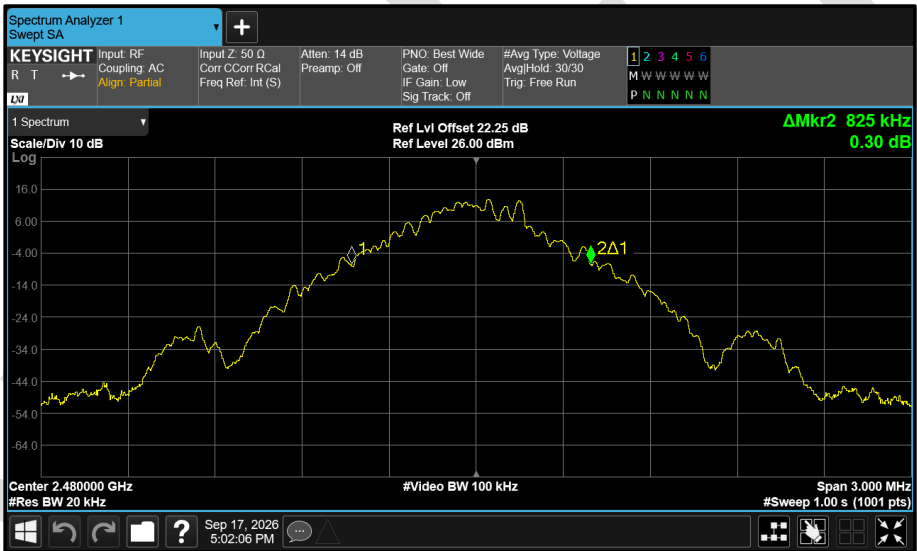


Figure 82 - Core 0 (A) 2480 MHz (CH78) 99% Bandwidth

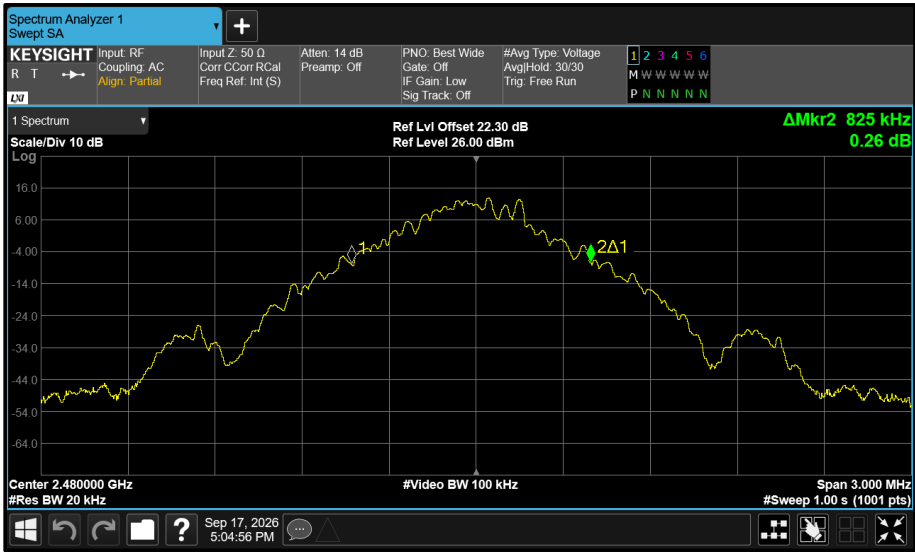


Figure 83 - Core 1 (B) 2480 MHz (CH78) 99% Bandwidth



| Test Configuration       |                                      |                 |                              |
|--------------------------|--------------------------------------|-----------------|------------------------------|
| Frequency Range:         | 2400-2483.5 MHz                      | Band:           | 2.4 GHz                      |
| Limit Clause(s):         | 15.247 (a)(1)<br>RSS-247 6.2.3.1 (a) | Test Method(s): | C63.10 6.9.3<br>C63.10 6.9.2 |
| Additional Reference(s): | -                                    |                 |                              |

| DUT Configuration      |                     |       |                          |   |
|------------------------|---------------------|-------|--------------------------|---|
| Mode:                  | iPA GFSK (DH5))     |       | Duty Cycle (%):          | - |
| Antenna Configuration: | Beamforming         |       | DCCF (dB):               | - |
| Active Port(s):        | A+B (Core 0+Core 1) |       | Peak Antenna Gain (dBi): | - |
|                        | A                   | B     | A                        | B |
| 2402                   | 0.951               | 0.951 | -                        | - |
| 2441                   | 0.951               | 0.951 | -                        | - |
| 2480                   | 0.948               | 0.951 | -                        | - |

Table 53 - 20 dB Bandwidth Results

| Test Frequency (MHz) | 99% Bandwidth (MHz) |       |   |   | Limit (kHz) |
|----------------------|---------------------|-------|---|---|-------------|
|                      | A                   | B     | C | D |             |
| 2402                 | 0.831               | 0.834 | - | - | -           |
| 2441                 | 0.831               | 0.834 | - | - | -           |
| 2480                 | 0.825               | 0.825 | - | - | -           |

Table 54 - 99% Bandwidth Results

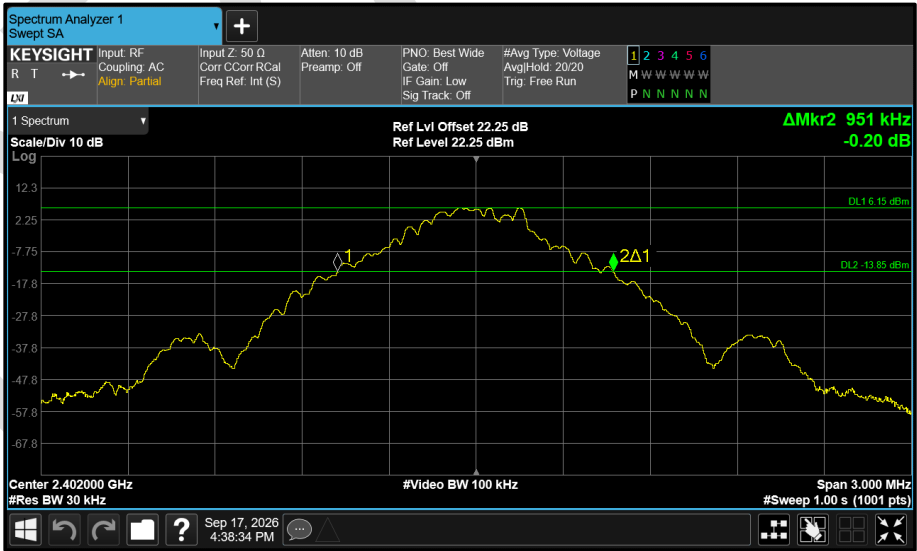


Figure 84 - Core 0 (A) 2402 MHz (CH0) 20 dB Bandwidth

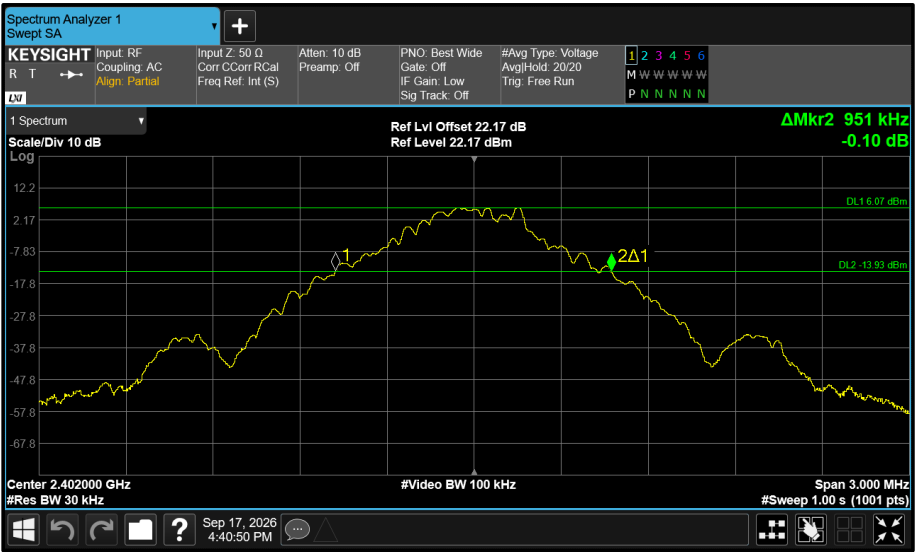


Figure 85 - Core 1 (B) 2402 MHz (CH0) 20 dB Bandwidth

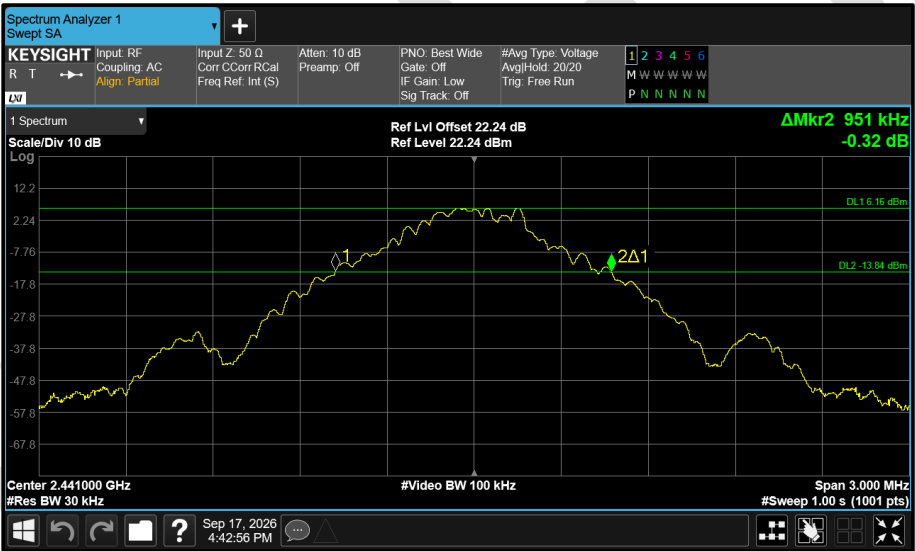


Figure 86 - Core 0 (A) 2441 MHz (CH39) 20 dB Bandwidth

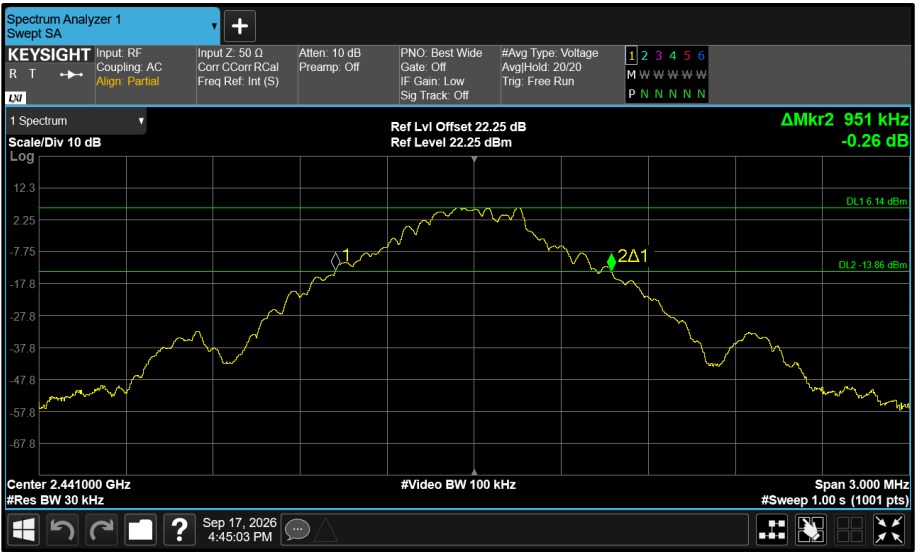


Figure 87 - Core 1 (B) 2441 MHz (CH39) 20 dB Bandwidth

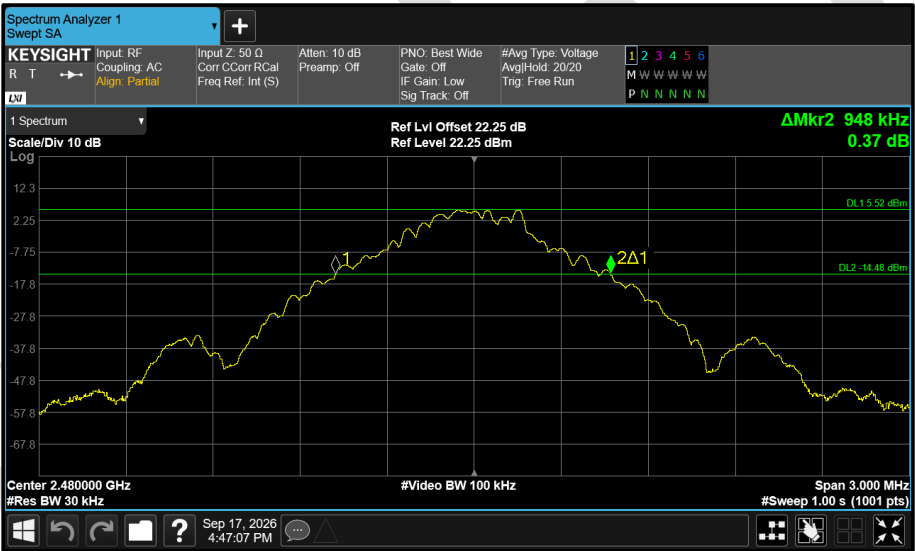


Figure 88 - Core 0 (A) 2480 MHz (CH78) 20 dB Bandwidth

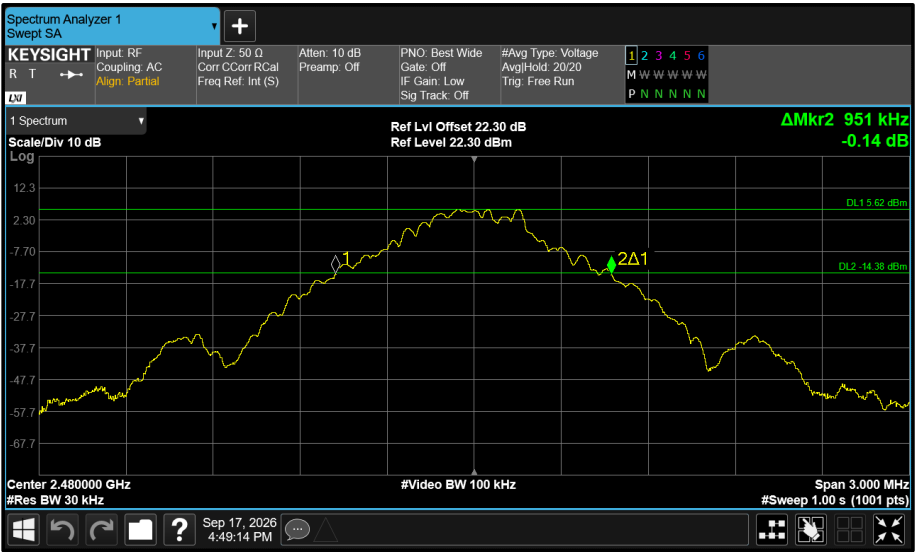


Figure 89 - Core 1 (B) 2480 MHz (CH78) 20 dB Bandwidth

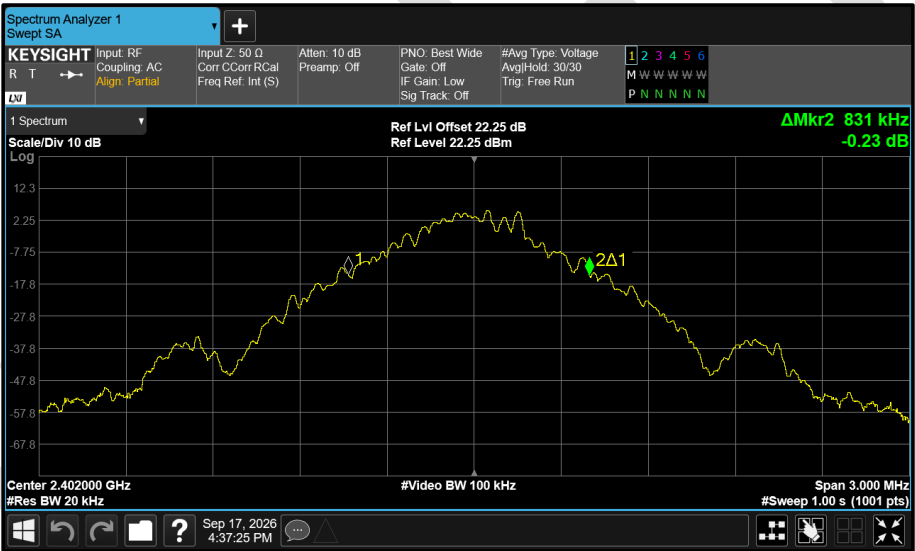


Figure 90 - Core 0 (A) 2402 MHz (CH0) 99% Bandwidth

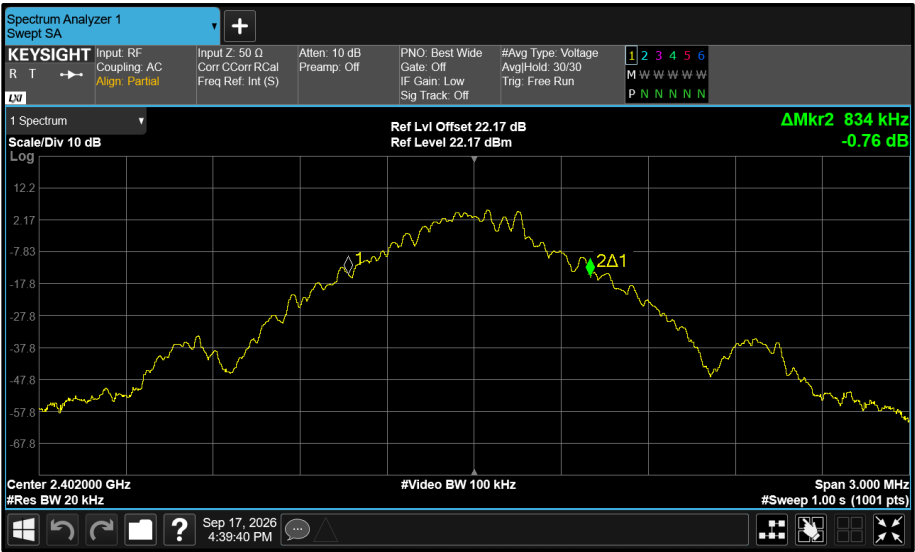


Figure 91 - Core 1 (B) 2402 MHz (CH0) 99% Bandwidth

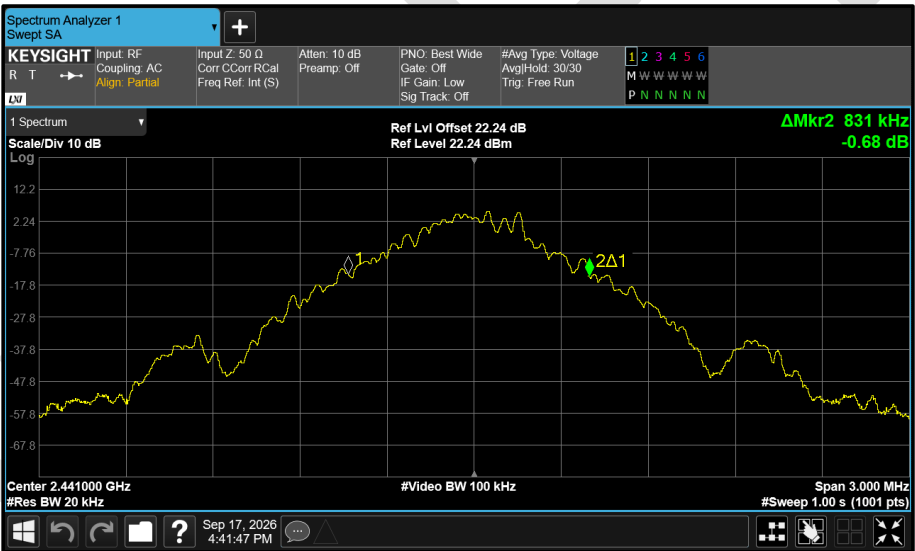


Figure 92 - Core 0 (A) 2441 MHz (CH39) 99% Bandwidth

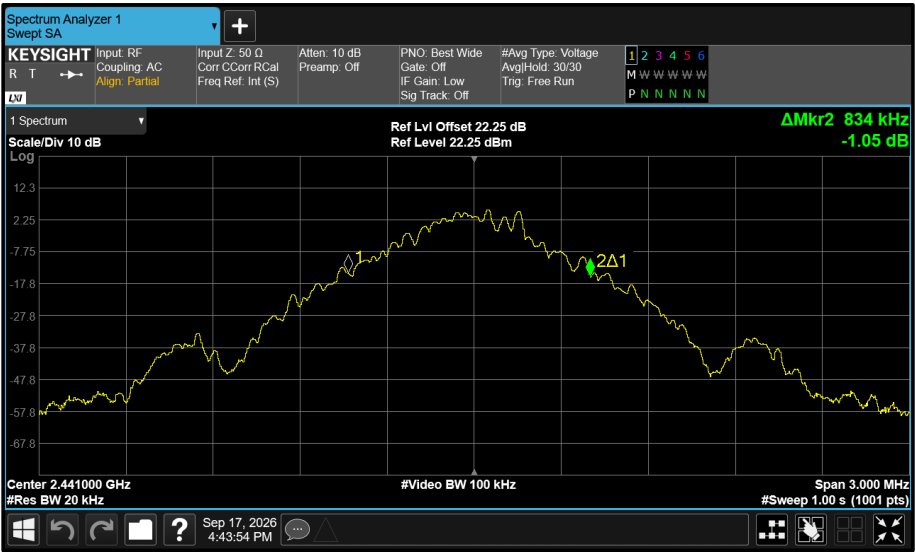


Figure 93 - Core 1 (B) 2441 MHz (CH39) 99% Bandwidth

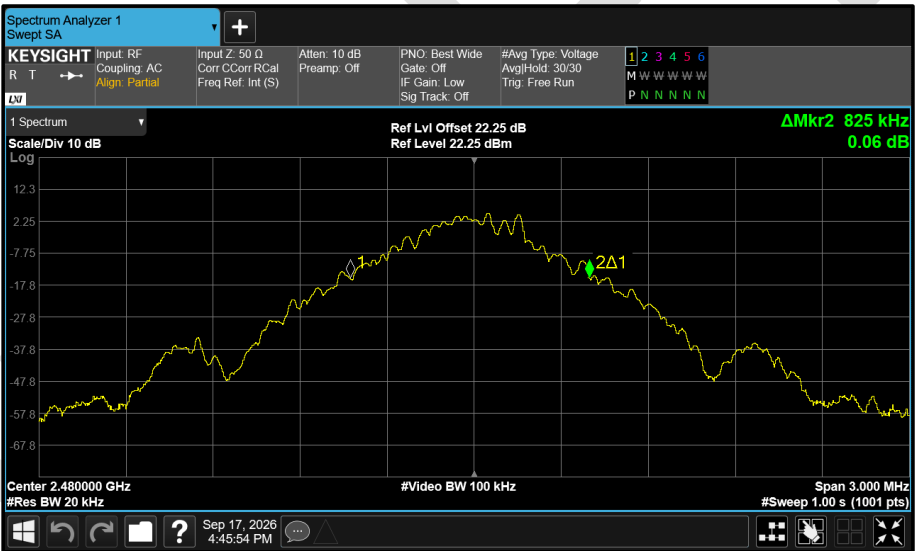


Figure 94 - Core 0 (A) 2480 MHz (CH78) 99% Bandwidth

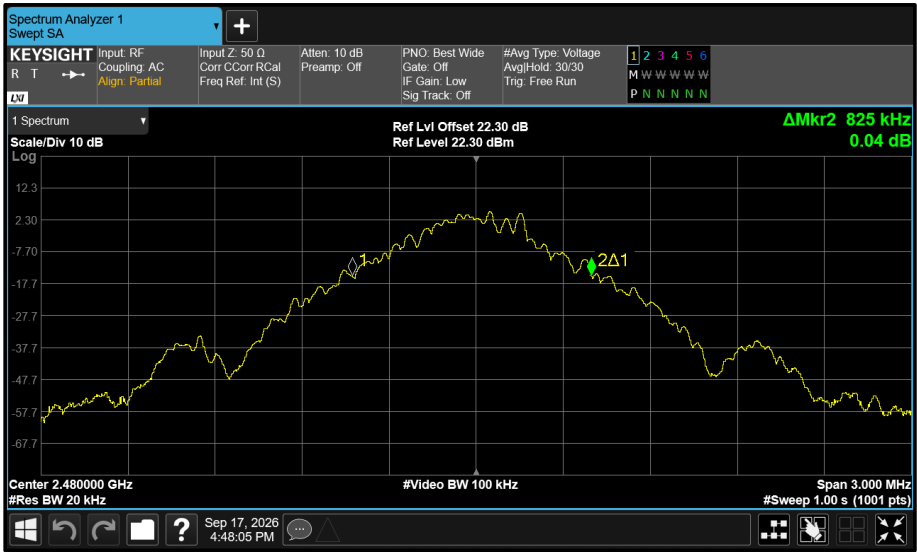


Figure 95 - Core 1 (B) 2480 MHz (CH78) 99% Bandwidth

FCC 47 CFR Part 15 and ISCED RSS-247 Limit Clause

None specified.



## 2.5.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 14.

| Instrument                             | Manufacturer          | Type No.            | TE No. | Calibration Period (months) | Calibration Expiry Date |
|----------------------------------------|-----------------------|---------------------|--------|-----------------------------|-------------------------|
| Signal Conditioning Unit               | TUV SUD               | SPECTRUM_SCU001     | 5759   | 12                          | 05-Mar-2027             |
| USB Power Sensor                       | Boonton               | RTP5008             | 5830   | 12                          | 05-Mar-2027             |
| USB Power Sensor                       | Boonton               | RTP5008             | 5832   | 12                          | 05-Mar-2027             |
| MXA Signal Analyser                    | Keysight Technologies | N9020B              | 5919   | 24                          | 31-Mar-2027             |
| USB Power Sensors, 50MHz to 8GHz       | Boonton               | RTP5008             | 5924   | 12                          | 27-Feb-2027             |
| Digital Multimeter                     | Fluke                 | 115                 | 6147   | 12                          | 03-Jun-2027             |
| MXA Signal Analyser                    | Keysight Technologies | N9020B              | 6419   | 24                          | 16-Jun-2028             |
| Humidity and Temperature Meter         | R.S Components        | 1364                | 6486   | 12                          | 23-Jul-2027             |
| Signal Conditioning Unit               | TUV SUD               | SPECTRUM_SCU001     | 6517   | 12                          | 25-Feb-2027             |
| SCU Cable Assembly                     | TUV SUD               | SPECTRUM_SCU_CA     | 6526   | 12                          | 25-Feb-2027             |
| SCU Cable Assembly                     | TUV SUD               | SPECTRUM_SCU_CA     | 6527   | 12                          | 25-Feb-2027             |
| SCU Cable Assembly                     | TUV SUD               | SPECTRUM_SCU_CA     | 6528   | 12                          | 25-Feb-2027             |
| USB Wideband Power Sensor              | Boonton               | RTP5008             | 6585   | 12                          | 27-Feb-2027             |
| USB Wideband Power Sensor              | Boonton               | RTP5008             | 6586   | 12                          | 27-Feb-2027             |
| USB Wideband Power Sensor              | Boonton               | RTP5008             | 6592   | 12                          | 05-Mar-2027             |
| AC Programmable Power Supply           | iTech                 | IT7324              | 6665   | -                           | O/P Mon                 |
| DC Power Module                        | Keysight Technologies | N6754A              | 6666   | -                           | O/P Mon                 |
| Modular Power System Mainframe         | Keysight Technologies | N6701C              | 6667   | -                           | O/P Mon                 |
| Digital Thermometer                    | R.S Components        | RS 5511             | 6739   | 12                          | 02-Mar-2027             |
| SCU Cable Assembly                     | TUV SUD               | SPECTRUM_SCU_CA     | 6903   | 12                          | 05-Mar-2027             |
| SCU Cable Assembly                     | TUV SUD               | SPECTRUM_SCU_CA     | 6904   | 12                          | 05-Mar-2027             |
| 6dB Attenuator cable assembly for SCU. | TUV SUD               | SPECTRUM_SCU_CA     | 7214   | 12                          | 05-Mar-2027             |
| Thermostatic Chamber                   | Weiss Technik         | LabEvent T/500/50/3 | 7317   | 24                          | O/P Mon                 |

**Table 55**

O/P Mon - Output Monitored using calibrated equipment.



## **2.6 Maximum Conducted Output Power**

### **2.6.1 Specification Reference**

FCC 47 CFR Part 15C, Clause 15.247 (b)(1)  
ISED RSS-247, Clause 6.2.3.2  
ISED RSS-GEN, Clause 6.12

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

A3593, S/N: DQTC67Q9HH - Modification State 0

### **2.6.3 Date of Test**

03-September-2026

### **2.6.4 Test Method**

The test was performed in accordance with ANSI C63.10 clause 7.8.5 using a power meter.

MIMO output port summing was performed in accordance with KDB 662911 D01, with the Beamforming results Directional Gain being calculated in accordance with clause F)2)d)(i)

### **2.6.5 Environmental Conditions**

|                     |                |
|---------------------|----------------|
| Ambient Temperature | 21.1 - 25.5 °C |
| Relative Humidity   | 41.8 - 61.5 %  |



## 2.6.6 Test Results

### 2.4 GHz Bluetooth - FHSS

| Test Configuration       |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Frequency Range:         | 2400-2483.5 MHz                  | Band:           | 2.4 GHz      |
| Limit Clause(s):         | 15.247 (b)(1)<br>RSS-247 6.2.3.2 | Test Method(s): | C63.10 7.8.5 |
| Additional Reference(s): | -                                |                 |              |

| DUT Configuration      |               |                          |       |
|------------------------|---------------|--------------------------|-------|
| Mode:                  | iPA BDR (DH5) | Duty Cycle (%):          | 76.4  |
| Antenna Configuration: | SISO          | DCCF (dB):               | -     |
| Active Port(s):        | A (Core 0)    | Peak Antenna Gain (dBi): | -1.10 |

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |   |   |   |      | Limit (dBm) | Margin (dB) |
|----------------------|--------------------------------------|---|---|---|------|-------------|-------------|
|                      | A                                    | B | C | D | Σ    |             |             |
| 2402                 | 9.14                                 | - | - | - | 9.14 | 30.00       | -20.86      |
| 2441                 | 8.98                                 | - | - | - | 8.98 | 30.00       | -21.02      |
| 2480                 | 9.23                                 | - | - | - | 9.23 | 30.00       | -20.77      |

**Table 56 - FCC Maximum Conducted (peak) Output Power Results**

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |   |   |   |      | Limit (dBm) | Margin (dB) | EIRP (dBm) | EIRP Limit (dBm) | EIRP Margin (dB) |
|----------------------|--------------------------------------|---|---|---|------|-------------|-------------|------------|------------------|------------------|
|                      | A                                    | B | C | D | Σ    |             |             |            |                  |                  |
| 2402                 | 9.14                                 | - | - | - | 9.14 | 30.00       | -20.86      | 8.04       | 36.00            | -27.96           |
| 2441                 | 8.98                                 | - | - | - | 8.98 | 30.00       | -21.02      | 7.88       | 36.00            | -28.12           |
| 2480                 | 9.23                                 | - | - | - | 9.23 | 30.00       | -20.77      | 8.13       | 36.00            | -27.87           |

**Table 57 - ISED Maximum Conducted (peak) Output Power Results**



| Test Configuration       |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Frequency Range:         | 2400-2483.5 MHz                  | Band:           | 2.4 GHz      |
| Limit Clause(s):         | 15.247 (b)(1)<br>RSS-247 6.2.3.2 | Test Method(s): | C63.10 7.8.5 |
| Additional Reference(s): | -                                |                 |              |

| DUT Configuration      |               |                          |      |
|------------------------|---------------|--------------------------|------|
| Mode:                  | iPA BDR (DH5) | Duty Cycle (%):          | 76.4 |
| Antenna Configuration: | SISO          | DCCF (dB):               | -    |
| Active Port(s):        | B (Core 1)    | Peak Antenna Gain (dBi): | 0.30 |

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |      |   |   |          | Limit (dBm) | Margin (dB) |
|----------------------|--------------------------------------|------|---|---|----------|-------------|-------------|
|                      | A                                    | B    | C | D | $\Sigma$ |             |             |
| 2402                 | -                                    | 9.14 | - | - | 9.14     | 30.00       | -20.86      |
| 2441                 | -                                    | 9.29 | - | - | 9.29     | 30.00       | -20.71      |
| 2480                 | -                                    | 9.33 | - | - | 9.33     | 30.00       | -20.67      |

**Table 58 - FCC Maximum Conducted (peak) Output Power Results**

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |      |   |   |          | Limit (dBm) | Margin (dB) | EIRP (dBm) | EIRP Limit (dBm) | EIRP Margin (dB) |
|----------------------|--------------------------------------|------|---|---|----------|-------------|-------------|------------|------------------|------------------|
|                      | A                                    | B    | C | D | $\Sigma$ |             |             |            |                  |                  |
| 2402                 | -                                    | 9.14 | - | - | 9.14     | 30.00       | -20.86      | 9.44       | 36.00            | -26.56           |
| 2441                 | -                                    | 9.29 | - | - | 9.29     | 30.00       | -20.71      | 9.59       | 36.00            | -26.41           |
| 2480                 | -                                    | 9.33 | - | - | 9.33     | 30.00       | -20.67      | 9.63       | 36.00            | -26.37           |

**Table 59 - ISSED Maximum Conducted (peak) Output Power Results**



| Test Configuration       |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Frequency Range:         | 2400-2483.5 MHz                  | Band:           | 2.4 GHz      |
| Limit Clause(s):         | 15.247 (b)(1)<br>RSS-247 6.2.3.2 | Test Method(s): | C63.10 7.8.5 |
| Additional Reference(s): | -                                |                 |              |

| DUT Configuration      |               |                          |      |
|------------------------|---------------|--------------------------|------|
| Mode:                  | iPA BDR (DH5) | Duty Cycle (%):          | 76.4 |
| Antenna Configuration: | SISO          | DCCF (dB):               | -    |
| Active Port(s):        | C (Core 2)    | Peak Antenna Gain (dBi): | 1.20 |

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |   |       |   |          | Limit (dBm) | Margin (dB) |
|----------------------|--------------------------------------|---|-------|---|----------|-------------|-------------|
|                      | A                                    | B | C     | D | $\Sigma$ |             |             |
| 2402                 | -                                    | - | 13.03 | - | 13.03    | 30.00       | -16.97      |
| 2441                 | -                                    | - | 12.94 | - | 12.94    | 30.00       | -17.06      |
| 2480                 | -                                    | - | 13.03 | - | 13.03    | 30.00       | -16.97      |

**Table 60 - FCC Maximum Conducted (peak) Output Power Results**

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |   |       |   |          | Limit (dBm) | Margin (dB) | EIRP (dBm) | EIRP Limit (dBm) | EIRP Margin (dB) |
|----------------------|--------------------------------------|---|-------|---|----------|-------------|-------------|------------|------------------|------------------|
|                      | A                                    | B | C     | D | $\Sigma$ |             |             |            |                  |                  |
| 2402                 | -                                    | - | 13.03 | - | 13.03    | 30.00       | -16.97      | 14.23      | 36.00            | -21.77           |
| 2441                 | -                                    | - | 12.94 | - | 12.94    | 30.00       | -17.06      | 14.14      | 36.00            | -21.86           |
| 2480                 | -                                    | - | 13.03 | - | 13.03    | 30.00       | -16.97      | 14.23      | 36.00            | -21.77           |

**Table 61 - ISED Maximum Conducted (peak) Output Power Results**



| Test Configuration       |                                                     |                 |              |
|--------------------------|-----------------------------------------------------|-----------------|--------------|
| Frequency Range:         | 2400-2483.5 MHz                                     | Band:           | 2.4 GHz      |
| Limit Clause(s):         | 15.247 (b)(1)<br>RSS-247 6.2.3.2                    | Test Method(s): | C63.10 7.8.5 |
| Additional Reference(s): | 662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1) |                 |              |

| DUT Configuration      |                     |                          |      |
|------------------------|---------------------|--------------------------|------|
| Mode:                  | iPA BDR (DH5)       | Duty Cycle (%):          | 76.4 |
| Antenna Configuration: | Beamforming         | DCCF (dB):               | -    |
| Active Port(s):        | A+B (Core 0+Core 1) | Peak Antenna Gain (dBi): | 2.64 |

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |      |   |   |          | Limit (dBm) | Margin (dB) |
|----------------------|--------------------------------------|------|---|---|----------|-------------|-------------|
|                      | A                                    | B    | C | D | $\Sigma$ |             |             |
| 2402                 | 9.24                                 | 9.09 | - | - | 12.18    | 30.00       | -17.82      |
| 2441                 | 9.10                                 | 9.28 | - | - | 12.20    | 30.00       | -17.80      |
| 2480                 | 8.98                                 | 9.33 | - | - | 12.17    | 30.00       | -17.83      |

**Table 62 - FCC Maximum Conducted (peak) Output Power Results**

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |      |   |   |          | Limit (dBm) | Margin (dB) | EIRP (dBm) | EIRP Limit (dBm) | EIRP Margin (dB) |
|----------------------|--------------------------------------|------|---|---|----------|-------------|-------------|------------|------------------|------------------|
|                      | A                                    | B    | C | D | $\Sigma$ |             |             |            |                  |                  |
| 2402                 | 9.24                                 | 9.09 | - | - | 12.18    | 30.00       | -17.82      | 14.81      | 36.00            | -21.19           |
| 2441                 | 9.10                                 | 9.28 | - | - | 12.20    | 30.00       | -17.80      | 14.84      | 36.00            | -21.16           |
| 2480                 | 8.98                                 | 9.33 | - | - | 12.17    | 30.00       | -17.83      | 14.81      | 36.00            | -21.19           |

**Table 63 - ISSED Maximum Conducted (peak) Output Power Results**



| Test Configuration       |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Frequency Range:         | 2400-2483.5 MHz                  | Band:           | 2.4 GHz      |
| Limit Clause(s):         | 15.247 (b)(1)<br>RSS-247 6.2.3.2 | Test Method(s): | C63.10 7.8.5 |
| Additional Reference(s): | -                                |                 |              |

| DUT Configuration      |               |                          |       |
|------------------------|---------------|--------------------------|-------|
| Mode:                  | ePA BDR (DH5) | Duty Cycle (%):          | 76.4  |
| Antenna Configuration: | SISO          | DCCF (dB):               | -     |
| Active Port(s):        | A (Core 0)    | Peak Antenna Gain (dBi): | -1.10 |

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |   |   |   |          | Limit (dBm) | Margin (dB) |
|----------------------|--------------------------------------|---|---|---|----------|-------------|-------------|
|                      | A                                    | B | C | D | $\Sigma$ |             |             |
| 2402                 | 20.38                                | - | - | - | 20.38    | 30.00       | -9.62       |
| 2441                 | 20.39                                | - | - | - | 20.39    | 30.00       | -9.61       |
| 2480                 | 20.30                                | - | - | - | 20.30    | 30.00       | -9.70       |

**Table 64 - FCC Maximum Conducted (peak) Output Power Results**

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |   |   |   |          | Limit (dBm) | Margin (dB) | EIRP (dBm) | EIRP Limit (dBm) | EIRP Margin (dB) |
|----------------------|--------------------------------------|---|---|---|----------|-------------|-------------|------------|------------------|------------------|
|                      | A                                    | B | C | D | $\Sigma$ |             |             |            |                  |                  |
| 2402                 | 20.38                                | - | - | - | 20.38    | 30.00       | -9.62       | 19.28      | 36.00            | -16.72           |
| 2441                 | 20.39                                | - | - | - | 20.39    | 30.00       | -9.61       | 19.29      | 36.00            | -16.71           |
| 2480                 | 20.30                                | - | - | - | 20.30    | 30.00       | -9.70       | 19.20      | 36.00            | -16.80           |

**Table 65 - ISSED Maximum Conducted (peak) Output Power Results**



| Test Configuration       |                                  |                 |              |
|--------------------------|----------------------------------|-----------------|--------------|
| Frequency Range:         | 2400-2483.5 MHz                  | Band:           | 2.4 GHz      |
| Limit Clause(s):         | 15.247 (b)(1)<br>RSS-247 6.2.3.2 | Test Method(s): | C63.10 7.8.5 |
| Additional Reference(s): | -                                |                 |              |

| DUT Configuration      |               |                          |      |
|------------------------|---------------|--------------------------|------|
| Mode:                  | ePA BDR (DH5) | Duty Cycle (%):          | 76.4 |
| Antenna Configuration: | SISO          | DCCF (dB):               | -    |
| Active Port(s):        | B (Core 1)    | Peak Antenna Gain (dBi): | 0.30 |

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |       |   |   |          | Limit (dBm) | Margin (dB) |
|----------------------|--------------------------------------|-------|---|---|----------|-------------|-------------|
|                      | A                                    | B     | C | D | $\Sigma$ |             |             |
| 2402                 | -                                    | 20.47 | - | - | 20.47    | 30.00       | -9.53       |
| 2441                 | -                                    | 20.31 | - | - | 20.31    | 30.00       | -9.69       |
| 2480                 | -                                    | 20.26 | - | - | 20.26    | 30.00       | -9.74       |

**Table 66 - FCC Maximum Conducted (peak) Output Power Results**

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |       |   |   |          | Limit (dBm) | Margin (dB) | EIRP (dBm) | EIRP Limit (dBm) | EIRP Margin (dB) |
|----------------------|--------------------------------------|-------|---|---|----------|-------------|-------------|------------|------------------|------------------|
|                      | A                                    | B     | C | D | $\Sigma$ |             |             |            |                  |                  |
| 2402                 | -                                    | 20.47 | - | - | 20.47    | 30.00       | -9.53       | 20.77      | 36.00            | -15.23           |
| 2441                 | -                                    | 20.31 | - | - | 20.31    | 30.00       | -9.69       | 20.61      | 36.00            | -15.39           |
| 2480                 | -                                    | 20.26 | - | - | 20.26    | 30.00       | -9.74       | 20.56      | 36.00            | -15.44           |

**Table 67 - ISSED Maximum Conducted (peak) Output Power Results**



| Test Configuration       |                                                     |                 |              |
|--------------------------|-----------------------------------------------------|-----------------|--------------|
| Frequency Range:         | 2400-2483.5 MHz                                     | Band:           | 2.4 GHz      |
| Limit Clause(s):         | 15.247 (b)(1)<br>RSS-247 6.2.3.2                    | Test Method(s): | C63.10 7.8.5 |
| Additional Reference(s): | 662911 D01 v02r01 F)2)d)(i), 662911 D01 v02r01 E)1) |                 |              |

| DUT Configuration      |                     |                          |      |
|------------------------|---------------------|--------------------------|------|
| Mode:                  | ePA BDR (DH5)       | Duty Cycle (%):          | 76.4 |
| Antenna Configuration: | Beamforming         | DCCF (dB):               | -    |
| Active Port(s):        | A+B (Core 0+Core 1) | Peak Antenna Gain (dBi): | 2.64 |

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |       |   |   |          | Limit (dBm) | Margin (dB) |
|----------------------|--------------------------------------|-------|---|---|----------|-------------|-------------|
|                      | A                                    | B     | C | D | $\Sigma$ |             |             |
| 2402                 | 17.19                                | 17.20 | - | - | 20.21    | 30.00       | -9.79       |
| 2441                 | 17.38                                | 17.35 | - | - | 20.38    | 30.00       | -9.62       |
| 2480                 | 17.33                                | 17.33 | - | - | 20.34    | 30.00       | -9.66       |

**Table 68 - FCC Maximum Conducted (peak) Output Power Results**

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |       |   |   |          | Limit (dBm) | Margin (dB) | EIRP (dBm) | EIRP Limit (dBm) | EIRP Margin (dB) |
|----------------------|--------------------------------------|-------|---|---|----------|-------------|-------------|------------|------------------|------------------|
|                      | A                                    | B     | C | D | $\Sigma$ |             |             |            |                  |                  |
| 2402                 | 17.19                                | 17.20 | - | - | 20.21    | 30.00       | -9.79       | 22.85      | 36.00            | -13.15           |
| 2441                 | 17.38                                | 17.35 | - | - | 20.38    | 30.00       | -9.62       | 23.02      | 36.00            | -12.98           |
| 2480                 | 17.33                                | 17.33 | - | - | 20.34    | 30.00       | -9.66       | 22.98      | 36.00            | -13.02           |

**Table 69 - ISED Maximum Conducted (peak) Output Power Results**



FCC 47 CFR Part 15, Limit Clause 15.247 (b)(1)

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

ISED RSS-247, Limit Clause 6.2.3.2

For FHSs operating in the band 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1.0 W if the hopset uses 75 or more hopping channel; the maximum peak conducted output power shall not exceed 0.125 W if the hopset uses less than 75 hopping channel. The e.i.r.p. shall not exceed 4 W except as provided in sections 6.5(a) and (b) of the specification.

## 2.6.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 14.

| Instrument                             | Manufacturer          | Type No.        | TE No. | Calibration Period (months) | Calibration Expiry Date |
|----------------------------------------|-----------------------|-----------------|--------|-----------------------------|-------------------------|
| Signal Conditioning Unit               | TUV SUD               | SPECTRUM_SCU001 | 5759   | 12                          | 05-Mar-2027             |
| USB Power Sensor                       | Boonton               | RTP5008         | 5830   | 12                          | 05-Mar-2027             |
| USB Power Sensor                       | Boonton               | RTP5008         | 5832   | 12                          | 05-Mar-2027             |
| MXA Signal Analyser                    | Keysight Technologies | N9020B          | 5919   | 24                          | 31-Mar-2027             |
| Digital Multimeter                     | Fluke                 | 115             | 6147   | 12                          | 03-Jun-2027             |
| USB Wideband Power Sensor              | Boonton               | RTP5008         | 6592   | 12                          | 05-Mar-2027             |
| Digital Thermometer                    | R.S Components        | RS 5511         | 6739   | 12                          | 02-Mar-2027             |
| Handheld Hygrometer                    | Fluke                 | 971             | 6838   | 12                          | 16-Sep-2026             |
| SCU Cable Assembly                     | TUV SUD               | SPECTRUM_SCU_CA | 6903   | 12                          | 05-Mar-2027             |
| SCU Cable Assembly                     | TUV SUD               | SPECTRUM_SCU_CA | 6904   | 12                          | 05-Mar-2027             |
| 6dB Attenuator cable assembly for SCU. | TUV SUD               | SPECTRUM_SCU_CA | 7214   | 12                          | 05-Mar-2027             |

**Table 70**



## **2.7 Authorised Band Edges**

### **2.7.1 Specification Reference**

FCC 47 CFR Part 15C, Clause 15.247 (d)  
ISED RSS-247, Clause 6.6

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

A3593, S/N: CFN9096KYW - Modification State 0

### **2.7.3 Date of Test**

28-June-2026 to 21-July-2026

### **2.7.4 Test Method**

The test was performed in accordance with ANSI C63.10, clause 6.10.4.

### **2.7.5 Environmental Conditions**

|                     |                |
|---------------------|----------------|
| Ambient Temperature | 21.0 - 23.1 °C |
| Relative Humidity   | 37.1 – 48.3%   |

## 2.7.6 Test Results

### 2.4 GHz Bluetooth - FHSS

#### iPA - Core 0 (SISO)

| Mode    | Packet Type | TX Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|---------|-------------|--------------------|---------------------------|-------------|
| Static  | DH5         | 2402               | 2400                      | -60.01      |
| Hopping | DH5         | 2402-2480          | 2400                      | -60.91      |

**Table 71 - SISO Authorised Band Edge Results**

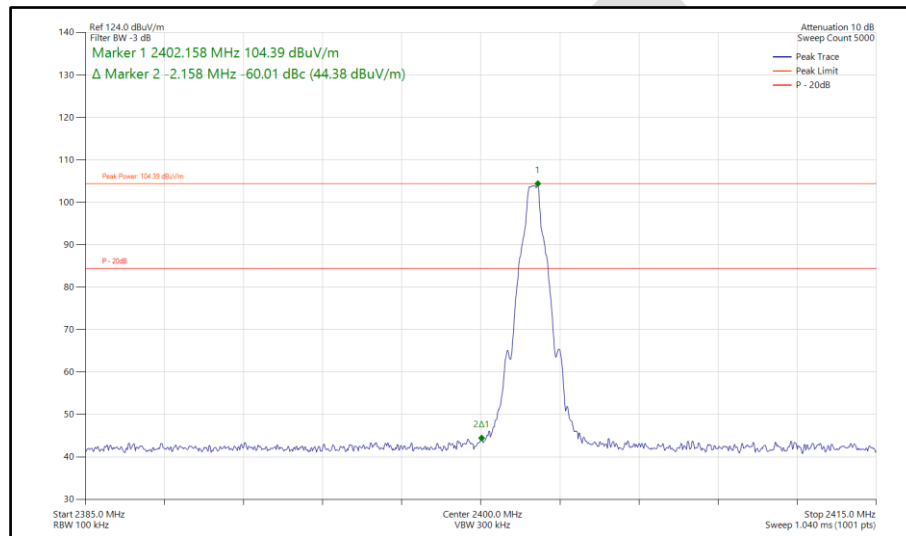


**Figure 96 - Bluetooth DH5, SISO, Core 0 - 2402 MHz  
Band Edge Frequency 2400 MHz**

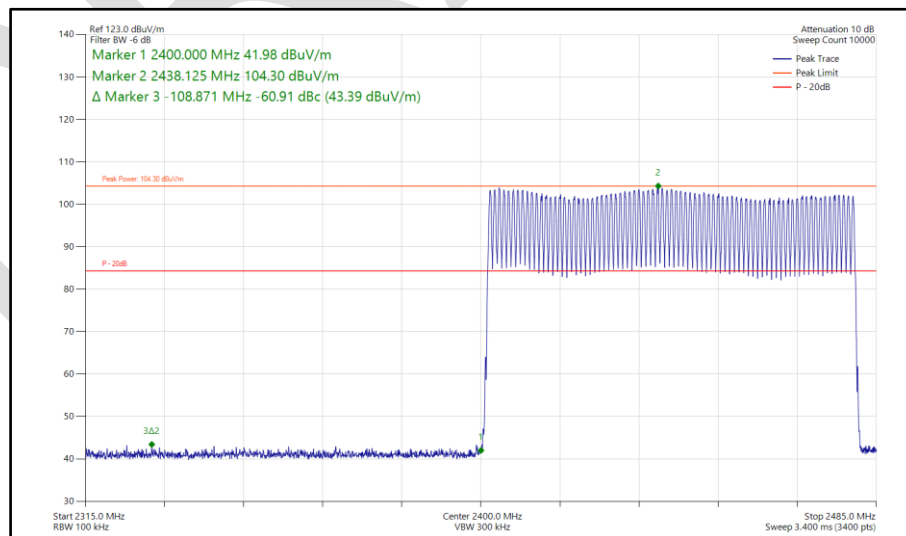


**Figure 97 - Bluetooth DH5, SISO, Core 0 - 2402-2480 MHz  
Band Edge Frequency 2400 MHz**

iPA - Core 1 (SISO)

| Mode    | Packet Type | TX Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|---------|-------------|--------------------|---------------------------|-------------|
| Static  | DH5         | 2402               | 2400                      | -55.21      |
| Hopping | DH5         | 2402-2480          | 2400                      | -59.49      |

Table 72 - SISO Authorised Band Edge Results

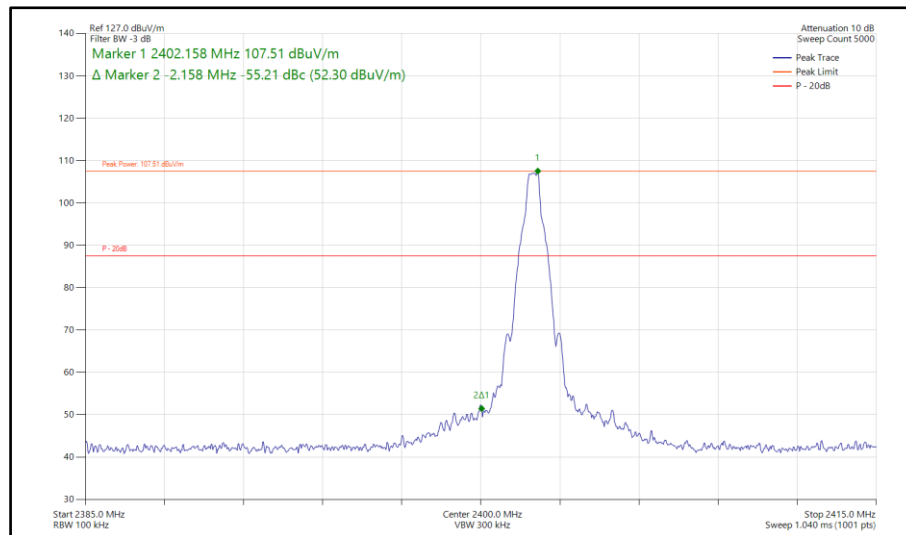


Figure 98 - Bluetooth DH5, SISO, Core 1 - 2402 MHz  
Band Edge Frequency 2400 MHz

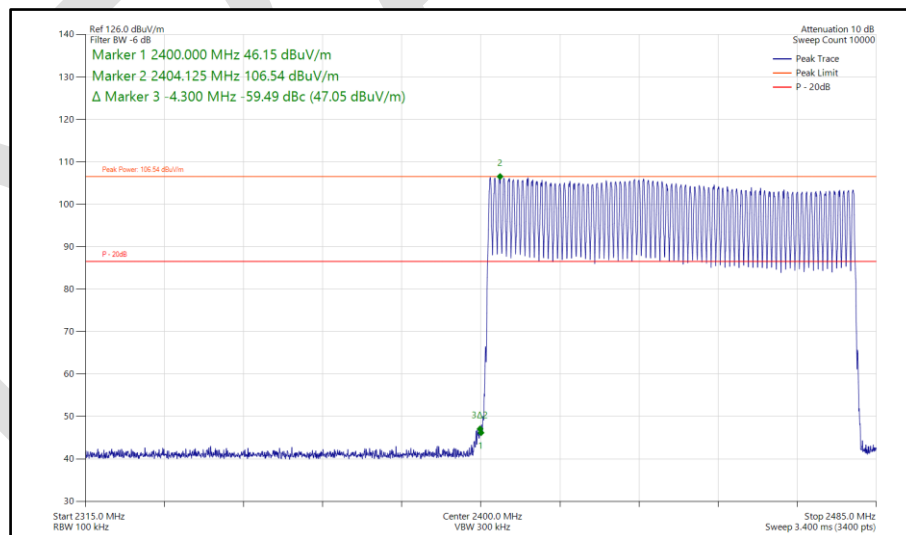


Figure 99 - Bluetooth DH5, SISO, Core 1 - 2402-2480 MHz  
Band Edge Frequency 2400 MHz

iPA - Core 2 (SISO)

| Mode    | Packet Type | TX Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|---------|-------------|--------------------|---------------------------|-------------|
| Static  | DH5         | 2402               | 2400                      | -56.79      |
| Hopping | DH5         | 2402-2480          | 2400                      | -63.23      |

Table 73 - SISO Authorised Band Edge Results

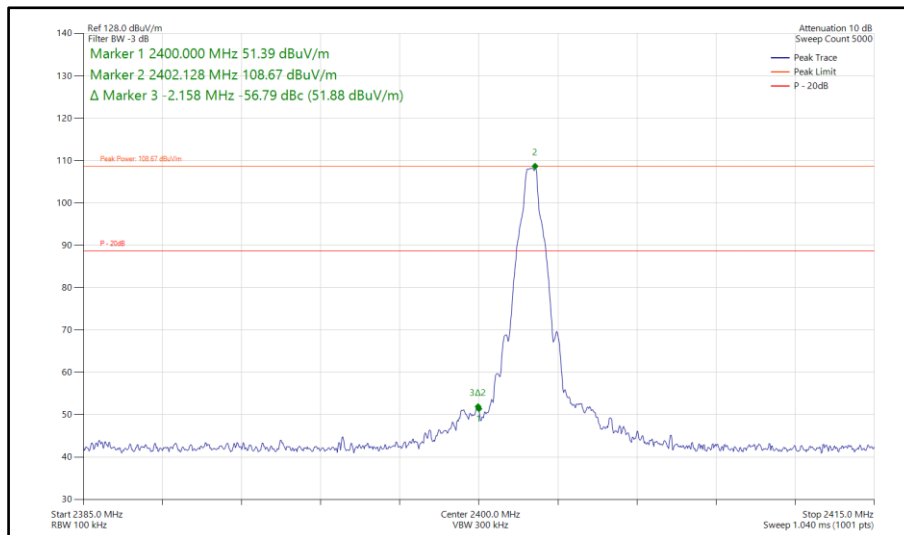


Figure 100 - Bluetooth DH5, SISO, Core 2 - 2402 MHz  
Band Edge Frequency 2400 MHz

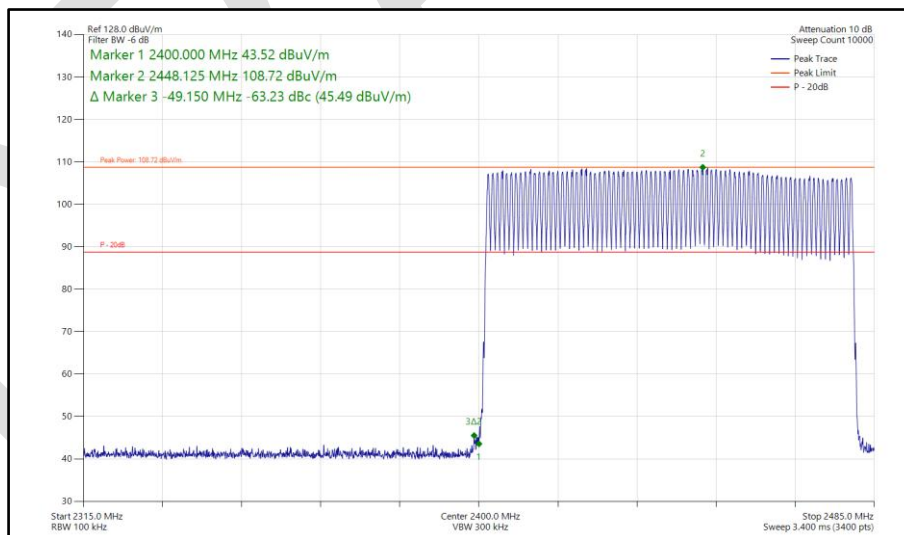


Figure 101 - Bluetooth DH5, SISO, Core 2 - 2402-2480 MHz  
Band Edge Frequency 2400 MHz

iPA - Core 0-1 (MIMO)

| Mode    | Packet Type | TX Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|---------|-------------|--------------------|---------------------------|-------------|
| Static  | DH5         | 2402               | 2400                      | -57.41      |
| Hopping | DH5         | 2402-2480          | 2400                      | -58.38      |

Table 74 - MIMO Authorised Band Edge Results

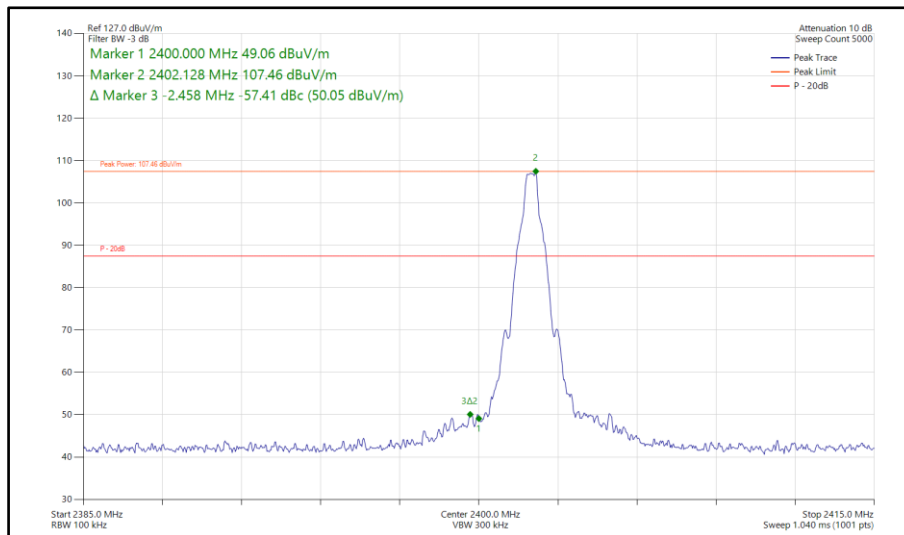


Figure 102 - Bluetooth DH5, MIMO, Core 0-1 - 2402 MHz  
Band Edge Frequency 2400 MHz

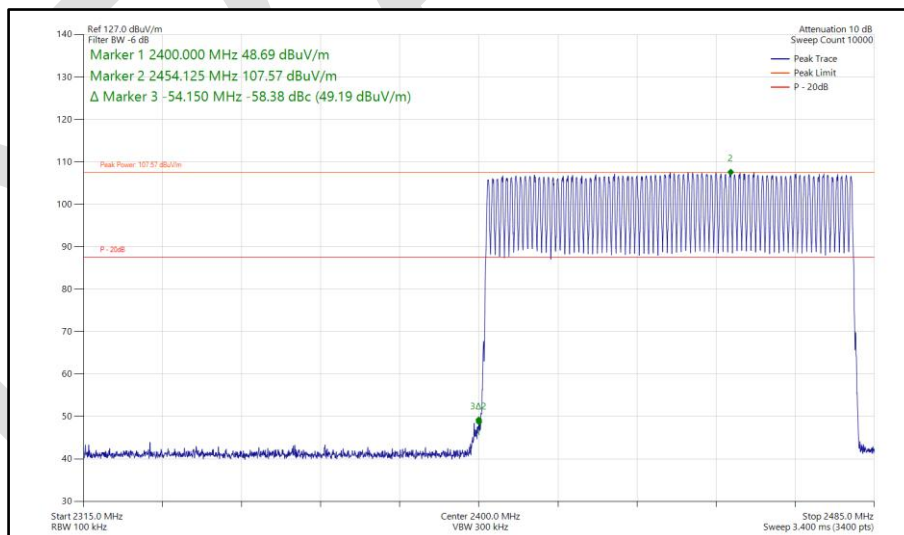


Figure 103 - Bluetooth DH5, MIMO, Core 0-1 - 2402-2480 MHz  
Band Edge Frequency 2400 MHz



ePA - Core 0 (SISO)

| Mode    | Packet Type | TX Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|---------|-------------|--------------------|---------------------------|-------------|
| Static  | DH5         | 2402               | 2400                      | -64.76      |
| Hopping | DH5         | 2402-2480          | 2400                      | -68.68      |

Table 75 - SISO Authorised Band Edge Results

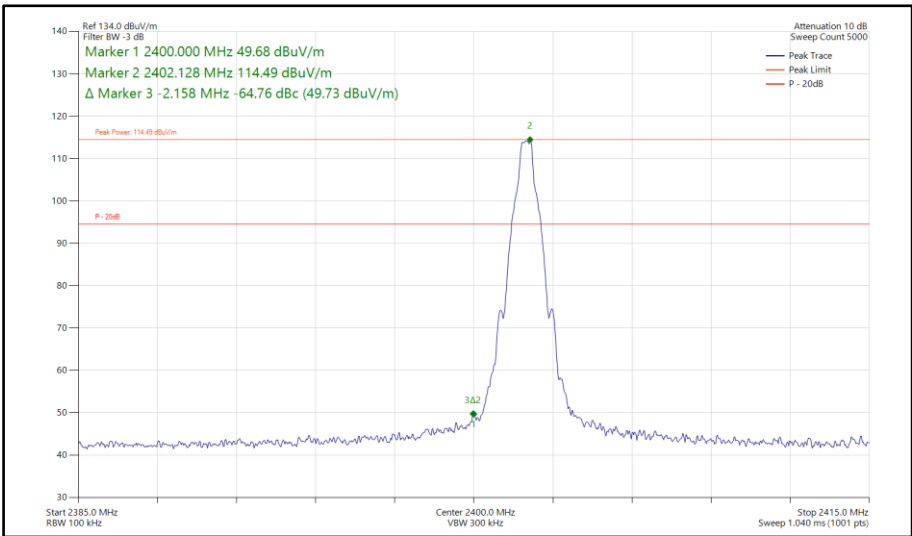


Figure 104 - Bluetooth DH5, SISO, Core 0 - 2402 MHz  
Band Edge Frequency 2400 MHz

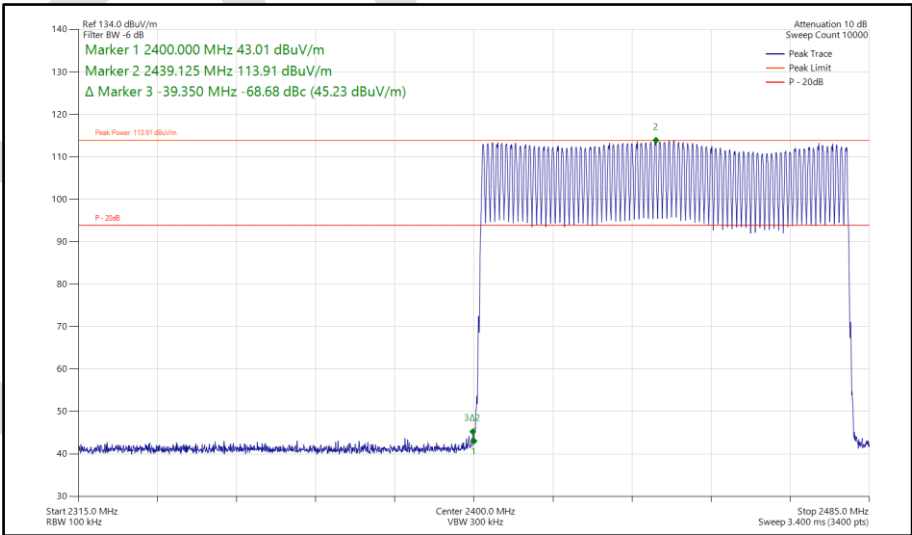


Figure 105 - Bluetooth DH5, SISO, Core 0 - 2402-2480 MHz  
Band Edge Frequency 2400 MHz

ePA - Core 1 (SISO)

| Mode    | Packet Type | TX Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|---------|-------------|--------------------|---------------------------|-------------|
| Static  | DH5         | 2402               | 2400                      | -66.10      |
| Hopping | DH5         | 2402-2480          | 2400                      | -68.98      |

Table 76 - SISO Authorised Band Edge Results

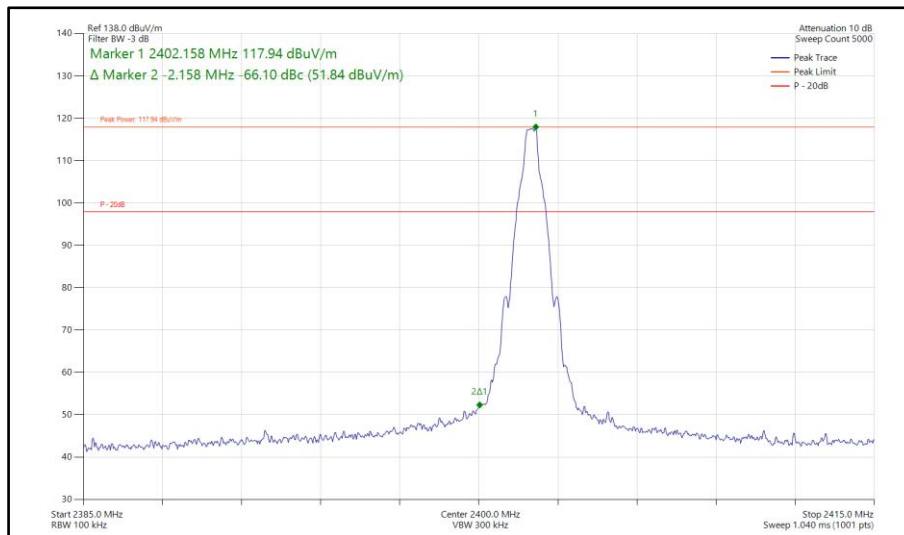


Figure 106 - Bluetooth DH5, SISO, Core 1 - 2402 MHz  
Band Edge Frequency 2400 MHz

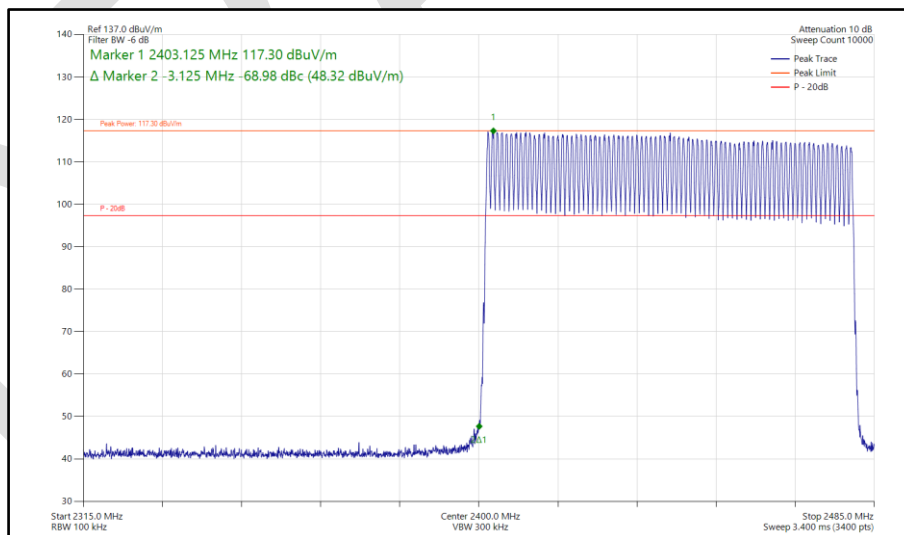


Figure 107 - Bluetooth DH5, SISO, Core 1 - 2402-2480 MHz  
Band Edge Frequency 2400 MHz

ePA - Core 0-1 (MIMO)

| Mode    | Packet Type | TX Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|---------|-------------|--------------------|---------------------------|-------------|
| Static  | DH5         | 2402               | 2400                      | -67.92      |
| Hopping | DH5         | 2402-2480          | 2400                      | -71.54      |

Table 77 - MIMO Authorised Band Edge Results

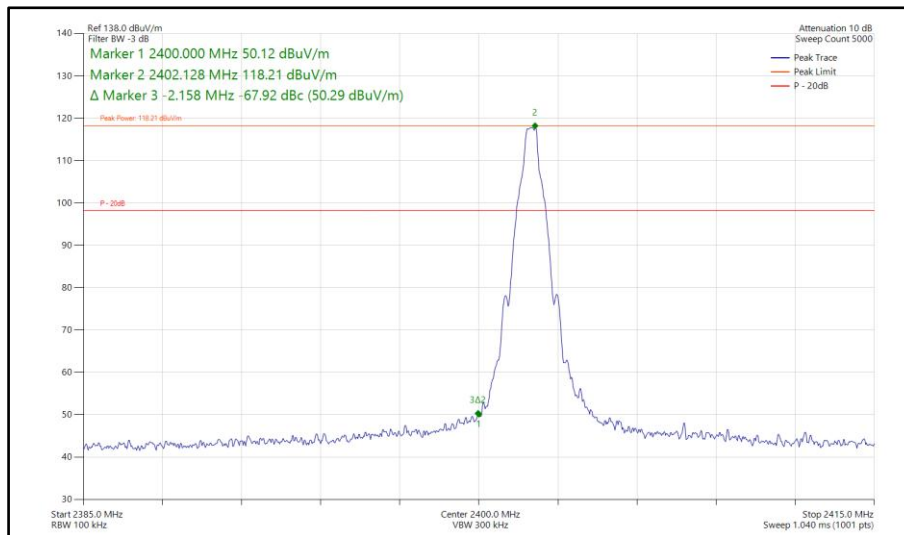


Figure 108 - Bluetooth DH5, MIMO, Core 0-1 - 2402 MHz  
Band Edge Frequency 2400 MHz

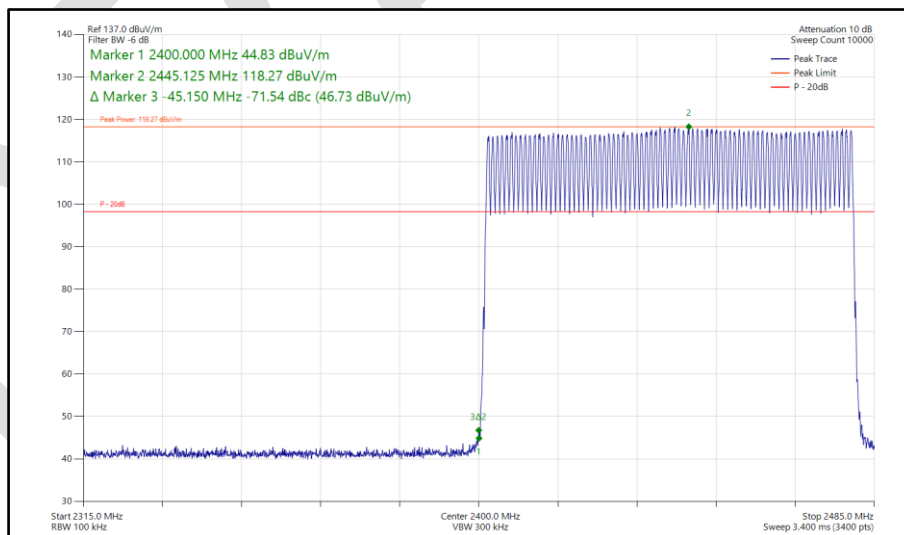


Figure 109 - Bluetooth DH5, MIMO, Core 0-1 - 2402-2480 MHz  
Band Edge Frequency 2400 MHz



FCC 47 CFR Part 15, Limit Clause 15.247 (d)

20 dB below the fundamental measured in a 100 kHz bandwidth using a peak detector. If the transmitter complies with the conducted power limits, based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB below the fundamental instead of 20 dB.

ISED RSS-247, Limit Clause 6.6

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.



## 2.7.7 Test Location and Test Equipment Used

This test was carried out in RF Chamber 17 and RF Chamber 18.

| Instrument                       | Manufacturer       | Type No.        | TE No. | Calibration Period (months) | Calibration Expiry Date |
|----------------------------------|--------------------|-----------------|--------|-----------------------------|-------------------------|
| Emissions Software               | TUV SUD            | EmX V3.6.3 V.   | 5125   | -                           | O/P Mon                 |
| EMI Test Receiver                | Rohde & Schwarz    | ESW44           | 5911   | 12                          | 29-Oct-2026             |
| 1500W (300V 12A) AC Power Supply | iTech              | IT7324          | 5957   | -                           | O/P Mon                 |
| Mast & Turntable Controller      | Maturo Gmbh        | FCU3.0          | 5960   | -                           | TU                      |
| Tilt Antenna Mast                | Maturo Gmbh        | BAM4.5-P        | 5961   | -                           | TU                      |
| Digital Multimeter               | Fluke              | 115             | 6145   | 12                          | 02-Jun-2027             |
| Humidity & Temperature meter     | R.S Components     | 1364            | 6149   | 12                          | 28-Aug-2026             |
| EMI Test Receiver                | Rohde & Schwarz    | ESW44           | 6294   | 12                          | 23-Mar-2027             |
| USB Spectrum Analyser            | Signal Hound       | SA124B          | 6295   | -                           | TU                      |
| Cable (SMA to SMA 1m)            | Junkosha           | MWX221/B        | 6305   | 12                          | 19-May-2027             |
| SAC Switch Unit                  | TUV SUD            | TUV_SSU_004 PLC | 6349   | 12                          | 18-May-2027             |
| USB Spectrum Analyser            | Signal Hound       | SA124B          | 6383   | -                           | TU                      |
| Horn Antenna (1–10.5 GHz)        | Schwarzbeck        | BBHA 9120 B     | 6457   | 12                          | 14-Sep-2026             |
| 3m Semi-Anechoic Chamber         | Albatross Projects | Chamber 18      | 6597   | 36                          | 08-May-2028             |
| AC Power Supply                  | iTech              | IT7324          | 6657   | -                           | O/P Mon                 |
| 3m Semi-Anechoic Chamber         | Albatross Projects | RF Chamber 17   | 6658   | 36                          | 07-May-2028             |
| Mast and Turntable Controller    | Maturo Gmbh        | FCU3.0          | 6659   | -                           | TU                      |



| Instrument                        | Manufacturer | Type No.             | TE No. | Calibration Period (months) | Calibration Expiry Date |
|-----------------------------------|--------------|----------------------|--------|-----------------------------|-------------------------|
| Tilt Antenna Mast                 | Maturo Gmbh  | BAM4.5-P             | 6660   | -                           | TU                      |
| Turntable                         | Maturo Gmbh  | TT1.5SI              | 6661   | -                           | TU                      |
| Turntable                         | Maturo Gmbh  | TT1.5SI              | 6797   | -                           | TU                      |
| AC Programmable Power Supply      | iTech        | IT7324               | 6812   | -                           | O/P Mon                 |
| Broad-Band Horn Antenna 1-10GHz N | Schwarzbeck  | BBHA9120B            | 6825   | 12                          | 14-Sep-2026             |
| Handheld Hygrometer               | Fluke        | 971                  | 6838   | 12                          | 16-Sep-2026             |
| 1m SMA-Type Cable                 | Junkosha     | MWX221-01000AMSAMS/B | 6841   | 12                          | 23-Sep-2026             |
| 8m SMA-Type Cable                 | Junkosha     | MWX221-08000AMSAMS/B | 6850   | 12                          | 23-Oct-2026             |
| 8m SMA-Type Cable                 | Junkosha     | MWX221-08000AMSAMS/B | 6851   | 12                          | 06-Nov-2026             |
| SAC Switch Unit                   | TUV SUD      | TUV_SSU_004 PLC      | 6886   | 12                          | 02-Dec-2026             |

**Table 78**

TU - Traceability Unscheduled

O/P Mon - Output Monitored using calibrated equipment

## **2.8 Spurious Radiated Emissions**

### **2.8.1 Specification Reference**

FCC 47 CFR Part 15C, Clause 15.209 and 15.247 (d)  
ISED RSS-247, Clause 2.4 and 6.6  
ISED RSS-GEN, Clause 6.13 and 8.9

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

A3593, S/N: HW4095PWM7 - Modification State 0  
A3593, S/N: CFN9096KYW - Modification State 0  
A3593, S/N: JC957X620L - Modification State 0

### **2.8.3 Date of Test**

02-July-2026 to 12-July-2026

### **2.8.4 Test Method**

This test was performed in accordance with ANSI C63.10, clause 6.3, 6.5 and 6.6.

The EUT was placed on the non-conducting platform in a manner typical of a normal installation.

Pre-scans in the 30 MHz to 1 GHz and 18 GHz to 26 GHz range were limited to mid channel (2441 MHz).

The plots shown are the characterisation of the EUT. The limits on the plots represent the most stringent case for restricted bands, (74/54 dBuV/m) when compared to 20 dBc outside restricted bands. The limits shown have been used as a threshold to determine where further measurements are necessary. Where results are within 20 dB of the limits shown on the plots, further investigation was carried out and reported in results tables.

Ports on the EUT were terminated with loads as described in ANSI C63.4 clause 6.2.4. For EUT's with multiple connectors of the same type, additional interconnecting cables were connected, and pre-scans performed to determine whether the level of the emissions were increased by >2 dB.

The following conversion can be applied to convert from dBuV/m to uV/m:  
 $10^{(\text{Field Strength in dBuV/m}/20)}$ .

Above 18 GHz, the measurement distance was reduced to 1 m. The limit line was increased by  $20 \cdot \text{LOG}(3/1) = 9.54$  dB.

Where formal measurements have been necessary, the results have been presented in the emissions table.

A reduced frequency range for testing was employed on some of the test modes within this test section, based on the manufacturers RSE test plan. With any reduction based on their pre-assessment of the device, to determine the ranges and test channels that were most likely to produce emissions.

## 2.8.5 Example Test Setup Diagram

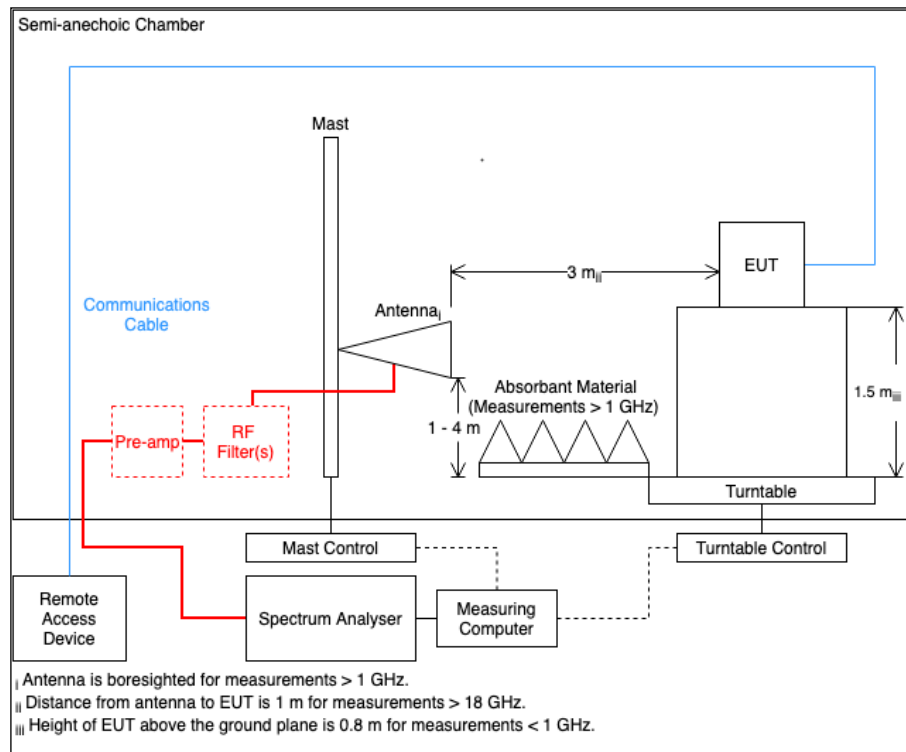


Figure 110

## 2.8.6 Environmental Conditions

|                     |                |
|---------------------|----------------|
| Ambient Temperature | 20.8 - 23.5 °C |
| Relative Humidity   | 33.5 - 41.1 %  |

## 2.8.7 Test Results

### 2.4 GHz Bluetooth - FHSS

| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| *               |                |                |             |          |           |             |              |

**Table 79 - 2402 MHz (CH2402), DH5, iPA, Core 0 + Core 1, 1 GHz to 18 GHz**

\*No emissions found within 20 dB of the limit.

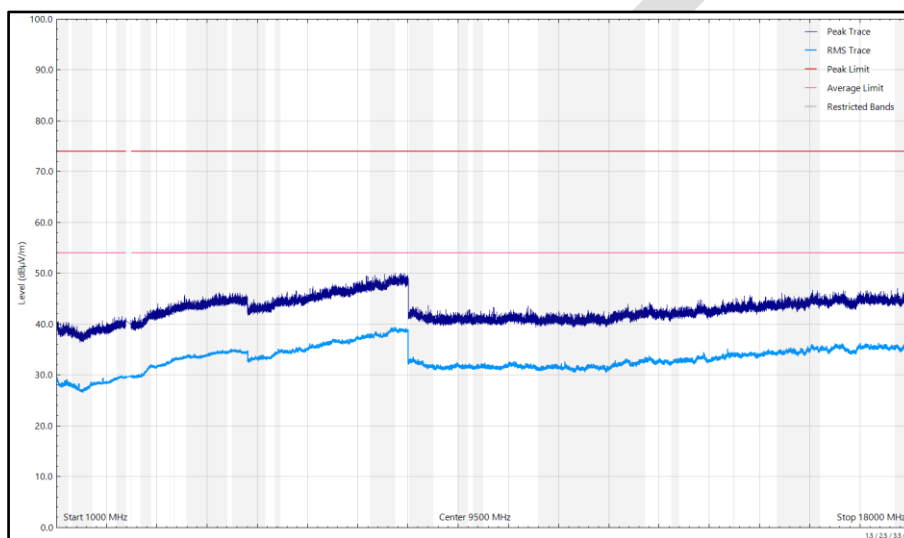


**Figure 111 - 2402 MHz (CH2402), DH5, iPA, Core 0 + Core 1, 1 GHz to 18 GHz, Horizontal**

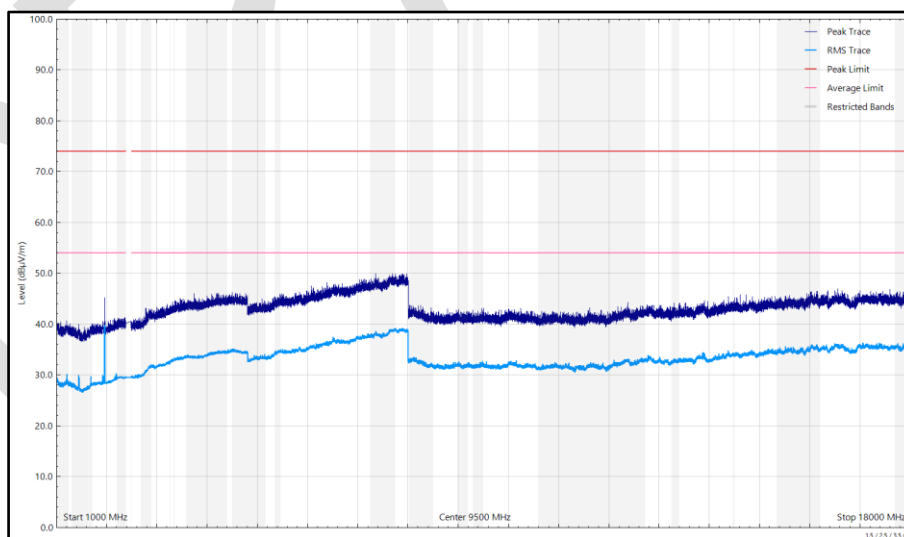


**Figure 112 - 2402 MHz (CH2402), DH5, iPA, Core 0 + Core 1, 1 GHz to 18 GHz, Vertical**

| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|-----------|-----------|-------------|--------------|
| 4882.175        | 32.40                | 54.00                | -21.60      | CISPR Avg | 229       | 135         | Horizontal   |
| 4882.435        | 30.18                | 54.00                | -23.82      | CISPR Avg | 103       | 100         | Vertical     |

**Table 80 - 2441 MHz (CH2441), DH5, iPA, Core 0 + Core 1, 30 MHz to 26 GHz**

No other emissions found within 20 dB of the limit.

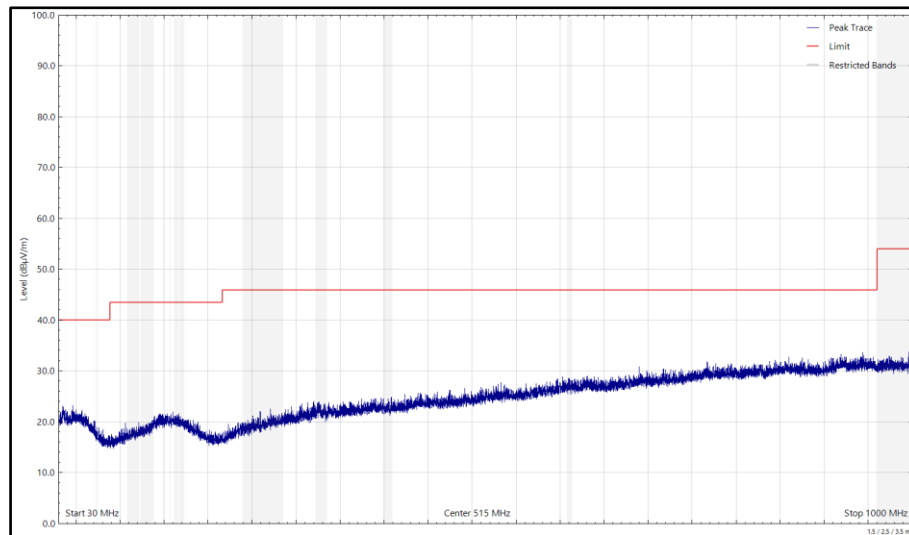


**Figure 113 - 2441 MHz (CH2441), DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**

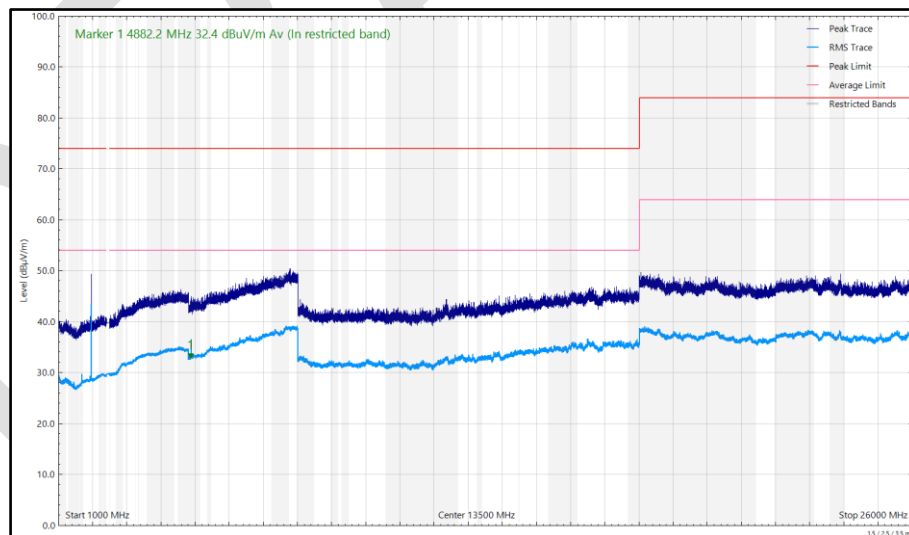


**Figure 114 - 2441 MHz (CH2441), DH5, iPA, Core 0 + Core 1, 1 GHz to 26 GHz, Horizontal**

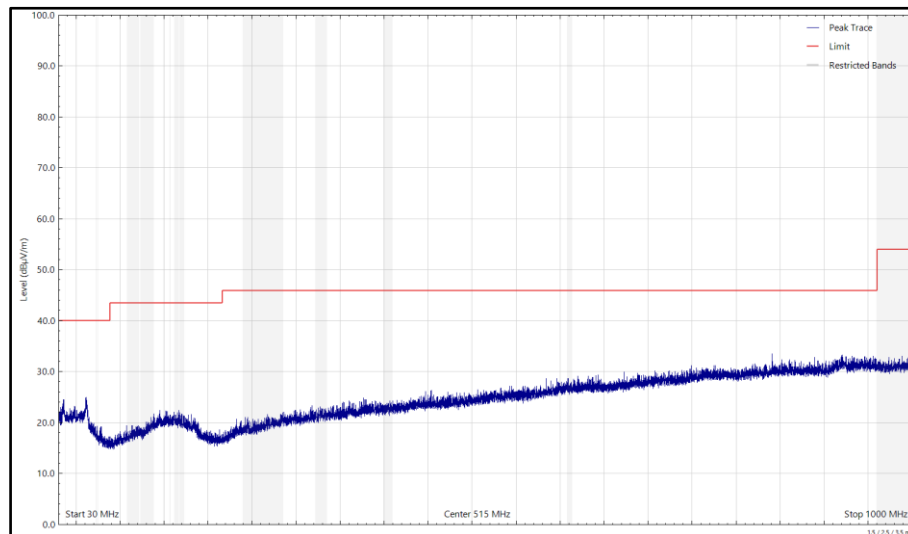


Figure 115 - 2441 MHz (CH2441), DH5, iPA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

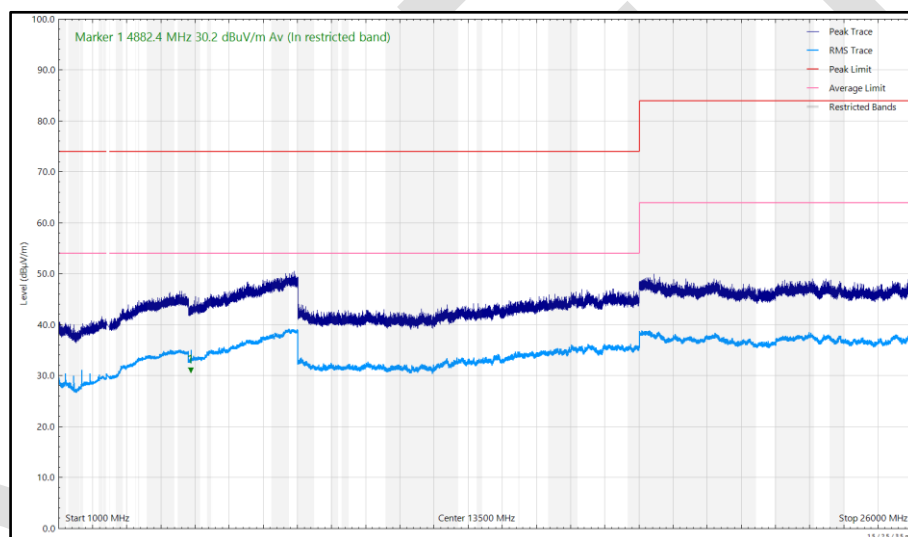


Figure 116 - 2441 MHz (CH2441), DH5, iPA, Core 0 + Core 1, 1 GHz to 26 GHz, Vertical

| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|-----------|-----------|-------------|--------------|
| 4959.505        | 31.14                | 54.00                | -22.86      | CISPR Avg | 220       | 236         | Horizontal   |
| 4960.275        | 30.05                | 54.00                | -23.95      | CISPR Avg | 114       | 194         | Vertical     |

**Table 81 - 2480 MHz (CH2480), DH5, iPA, Core 0 + Core 1, 1 GHz to 18 GHz**

No other emissions found within 20 dB of the limit.

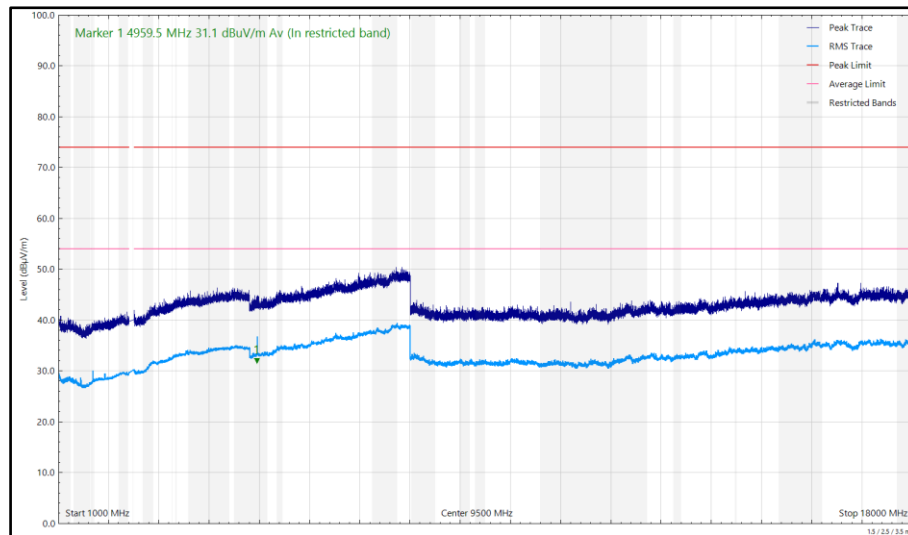


**Figure 117 - 2480 MHz (CH2480), DH5, iPA, Core 0 + Core 1, 1 GHz to 18 GHz, Horizontal**

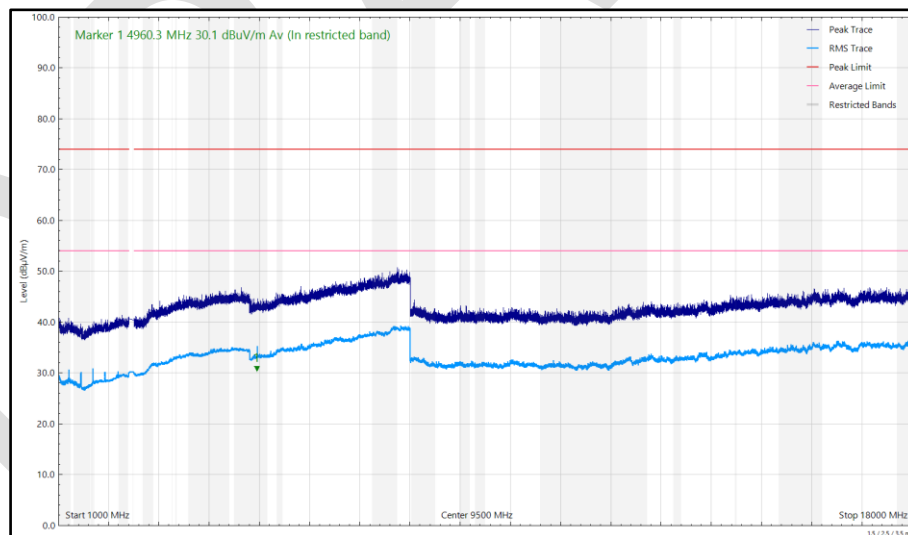


**Figure 118 - 2480 MHz (CH2480), DH5, iPA, Core 0 + Core 1, 1 GHz to 18 GHz, Vertical**



| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| *               |                |                |             |          |           |             |              |

Table 82 - 2402 MHz (CH2402), DH5, iPA, Core 2, 1 GHz to 18 GHz

\*No emissions found within 20 dB of the limit.

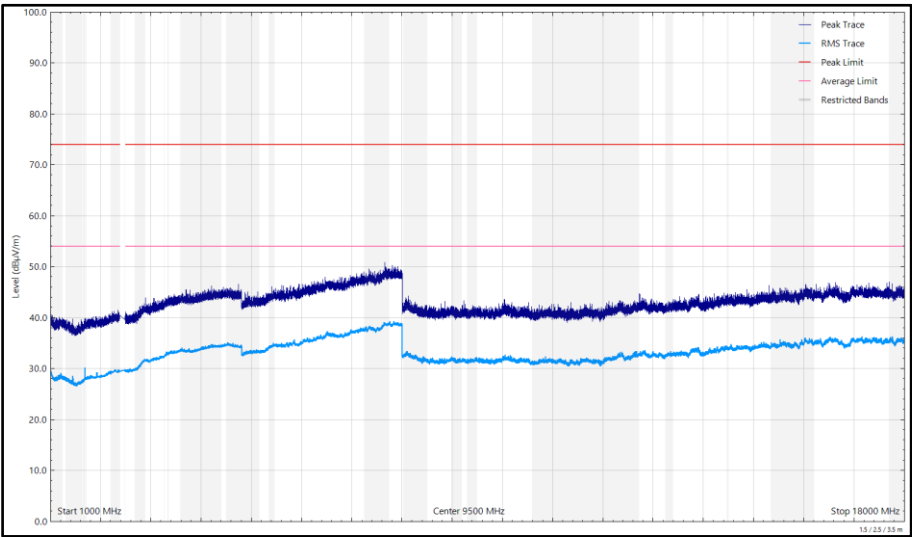


Figure 119 - 2402 MHz (CH2402), DH5, iPA, Core 2, 1 GHz to 18 GHz, Horizontal

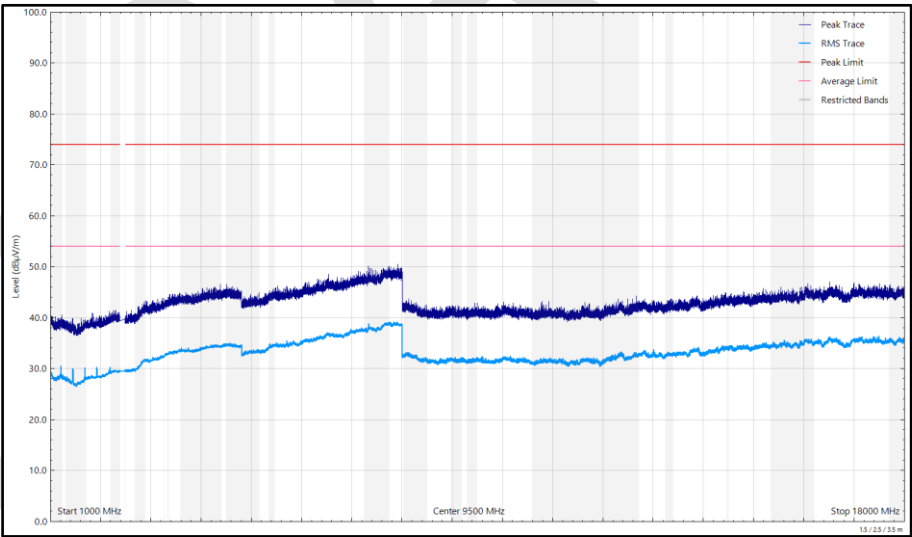


Figure 120 - 2402 MHz (CH2402), DH5, iPA, Core 2, 1 GHz to 18 GHz, Vertical

| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|----------|-----------|-------------|--------------|
| *               |                      |                      |             |          |           |             |              |

**Table 83 - 2441 MHz (CH2441), DH5, iPA, Core 2, 30 MHz to 26 GHz**

\*No emissions found within 20 dB of the limit.

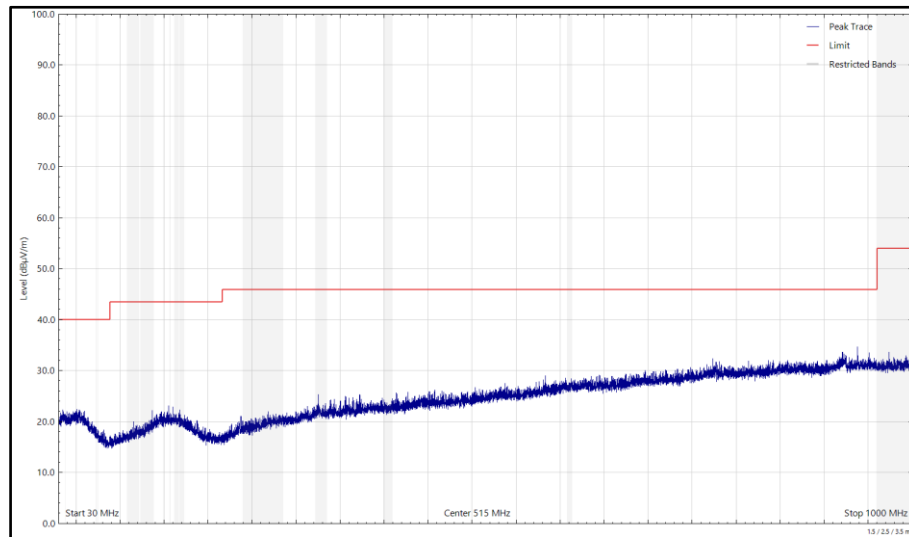


**Figure 121 - 2441 MHz (CH2441), DH5, iPA, Core 2, 30 MHz to 1 GHz, Horizontal (Peak)**

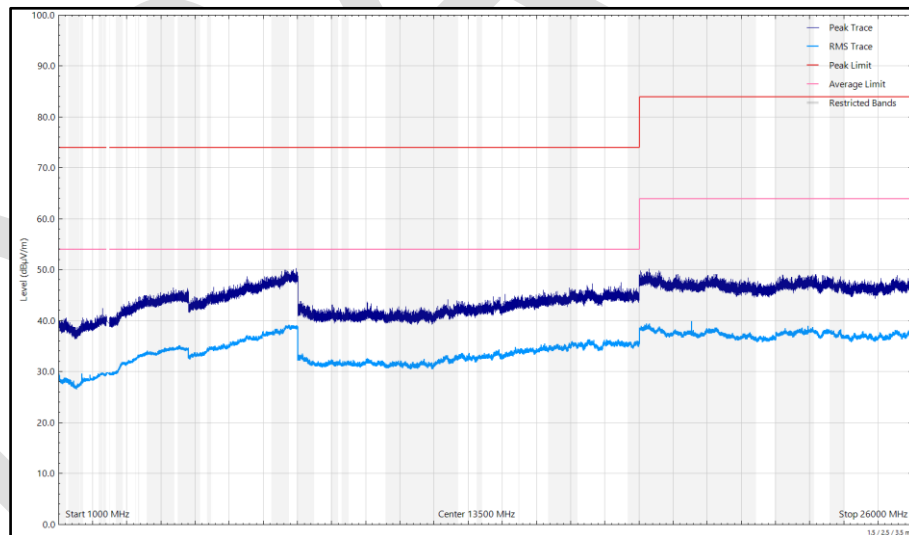


**Figure 122 - 2441 MHz (CH2441), DH5, iPA, Core 2, 1 GHz to 26 GHz, Horizontal**

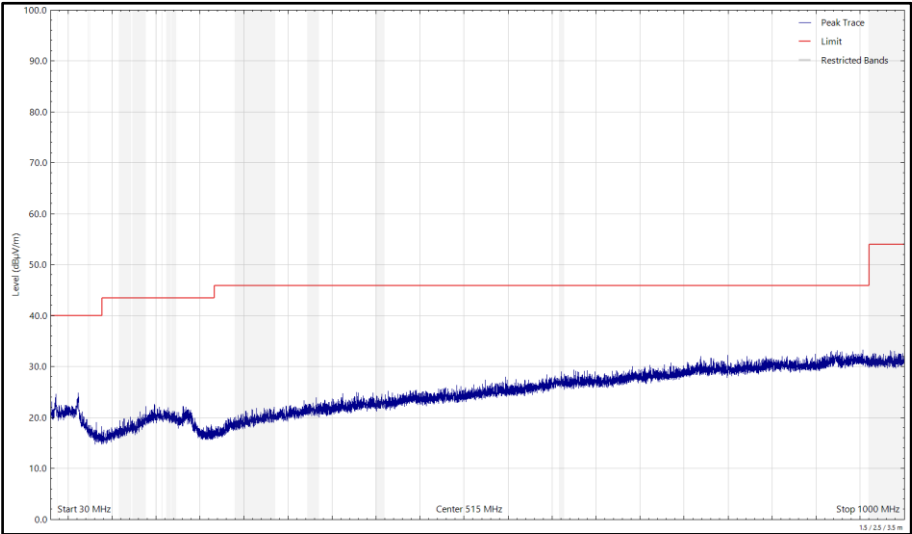


Figure 123 - 2441 MHz (CH2441), DH5, iPA, Core 2, 30 MHz to 1 GHz, Vertical (Peak)

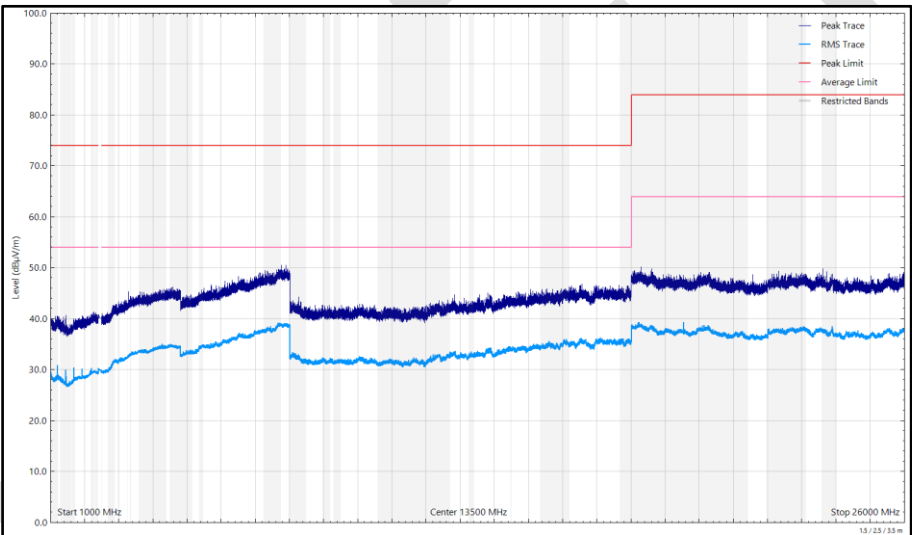


Figure 124 - 2441 MHz (CH2441), DH5, iPA, Core 2, 1 GHz to 26 GHz, Vertical



| Frequency (MHz) | Level (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Detector | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|----------|-----------|-------------|--------------|
| *               |                |                |             |          |           |             |              |

Table 84 - 2480 MHz (CH2480), DH5, iPA, Core 2, 1 GHz to 18 GHz

\*No emissions found within 20 dB of the limit.

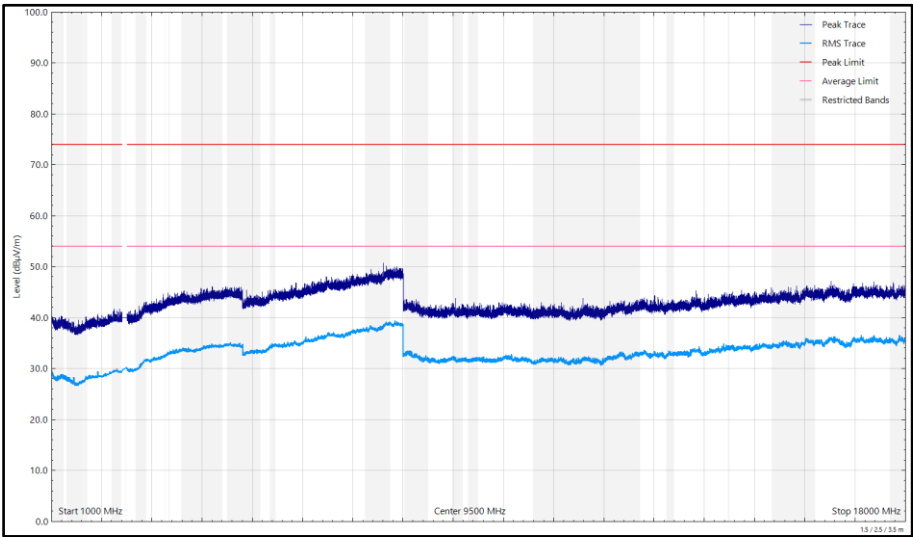


Figure 125 - 2480 MHz (CH2480), DH5, iPA, Core 2, 1 GHz to 18 GHz, Horizontal

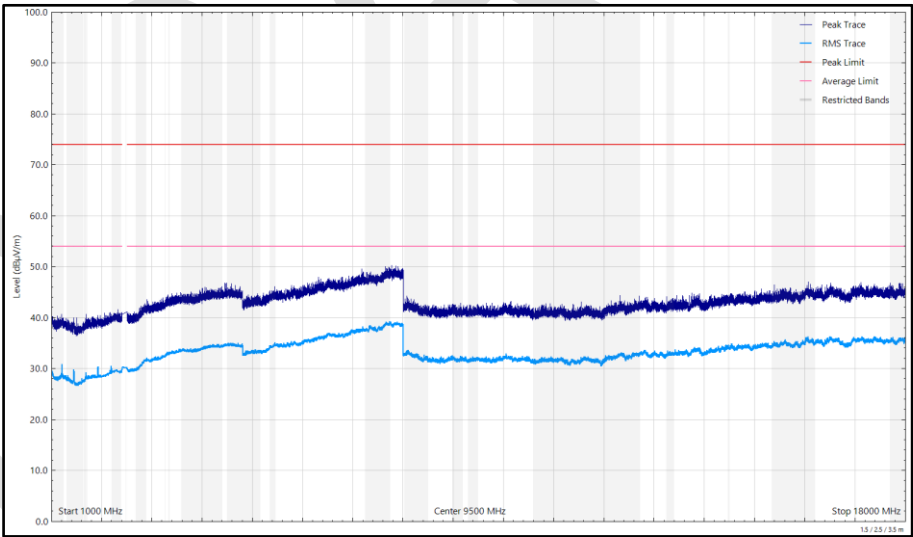


Figure 126 - 2480 MHz (CH2480), DH5, iPA, Core 2, 1 GHz to 18 GHz, Vertical

| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|-----------|-----------|-------------|--------------|
| 2485.963        | 30.10                | 54.00                | -23.90      | CISPR Avg | 16        | 129         | Horizontal   |
| 4803.606        | 55.66                | 74.00                | -18.34      | Peak      | 355       | 100         | Vertical     |
| 4803.694        | 36.66                | 54.00                | -17.34      | CISPR Avg | 355       | 132         | Vertical     |
| 4803.750        | 59.68                | 74.00                | -14.32      | Peak      | 220       | 152         | Horizontal   |
| 4803.750        | 40.68                | 54.00                | -13.32      | CISPR Avg | 220       | 152         | Horizontal   |

**Table 85 - 2402 MHz (CH2402), DH5, ePA, Core 0 + Core 1, 1 GHz to 18 GHz**

No other emissions found within 20 dB of the limit.

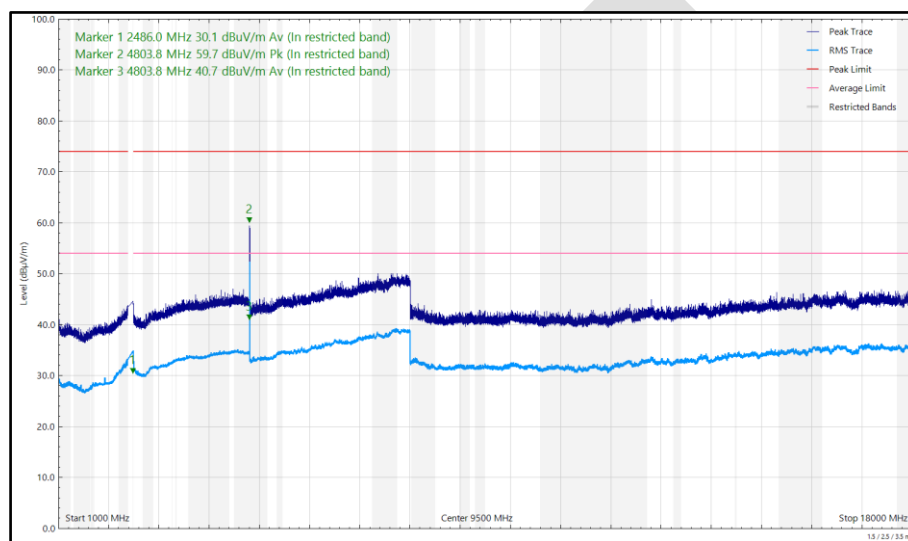


**Figure 127 - 2402 MHz (CH2402), DH5, ePA, Core 0 + Core 1, 1 GHz to 18 GHz, Horizontal**

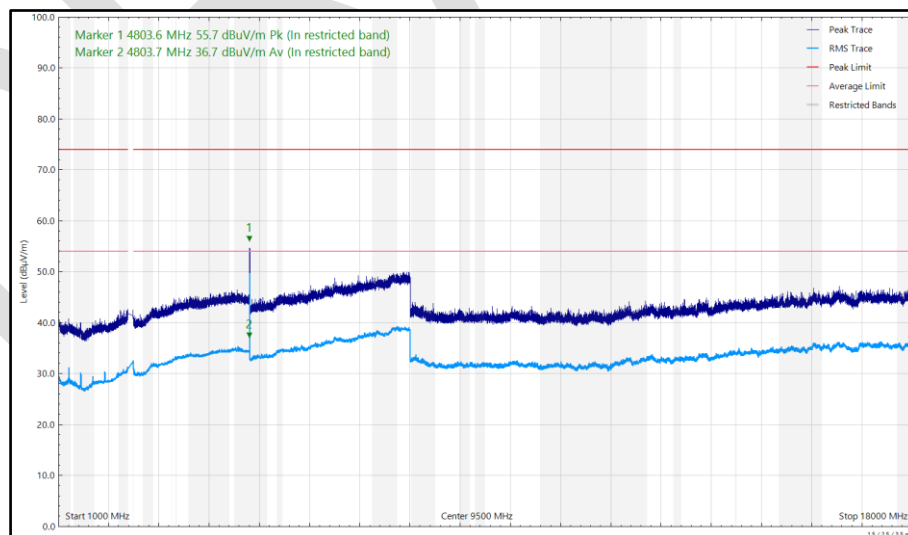


**Figure 128 - 2402 MHz (CH2402), DH5, ePA, Core 0 + Core 1, 1 GHz to 18 GHz, Vertical**

| Frequency (MHz) | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------------|----------------------|-------------|-----------|-----------|-------------|--------------|
| 2388.140        | 32.00                | 54.00                | -22.00      | CISPR Avg | 53        | 144         | Horizontal   |
| 2483.724        | 31.59                | 54.00                | -22.41      | CISPR Avg | 60        | 152         | Horizontal   |
| 4882.352        | 41.70                | 54.00                | -12.30      | CISPR Avg | 219       | 132         | Horizontal   |
| 4882.352        | 57.68                | 74.00                | -16.32      | Peak      | 353       | 146         | Vertical     |
| 4882.352        | 38.68                | 54.00                | -15.32      | CISPR Avg | 353       | 146         | Vertical     |
| 4882.352        | 60.70                | 74.00                | -13.30      | Peak      | 219       | 132         | Horizontal   |

**Table 86 - 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1, 30 MHz to 26 GHz**

No other emissions found within 20 dB of the limit.

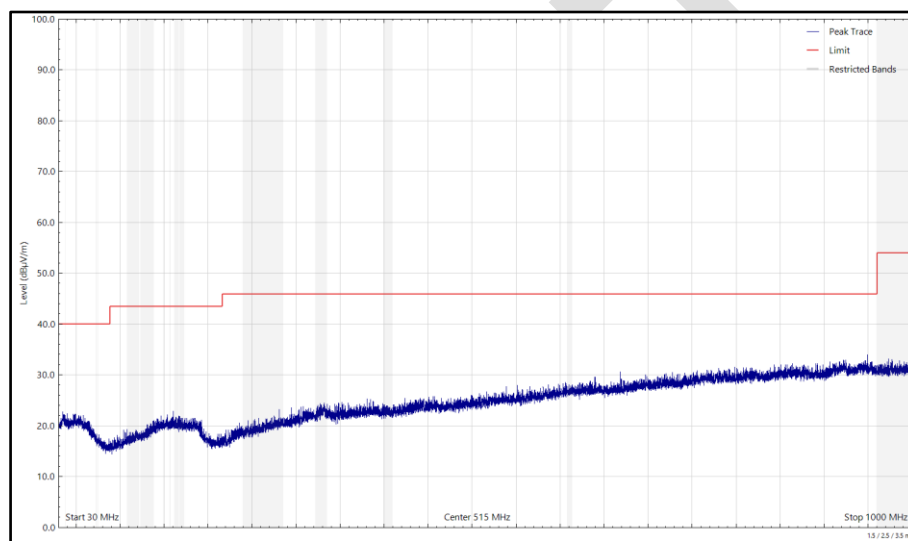


**Figure 129 - 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Horizontal (Peak)**

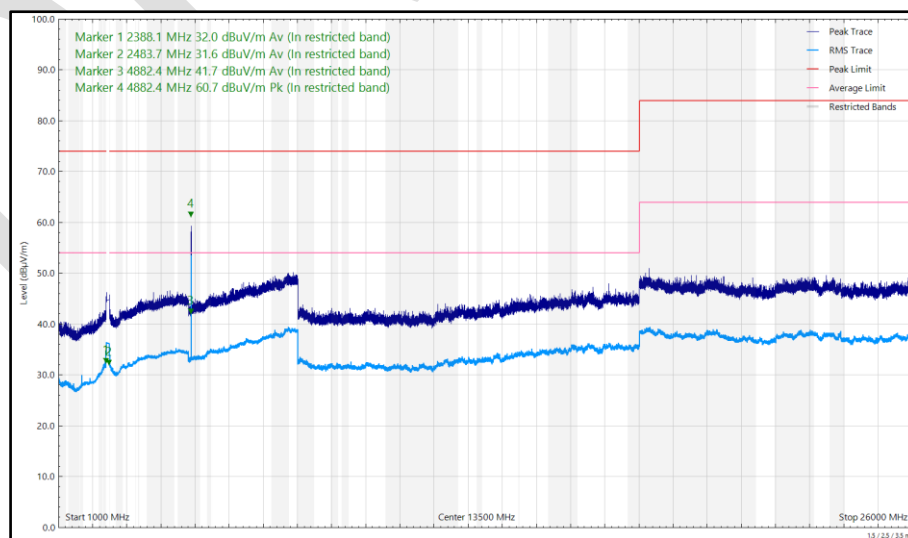


**Figure 130 - 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1, 1 GHz to 26 GHz, Horizontal**

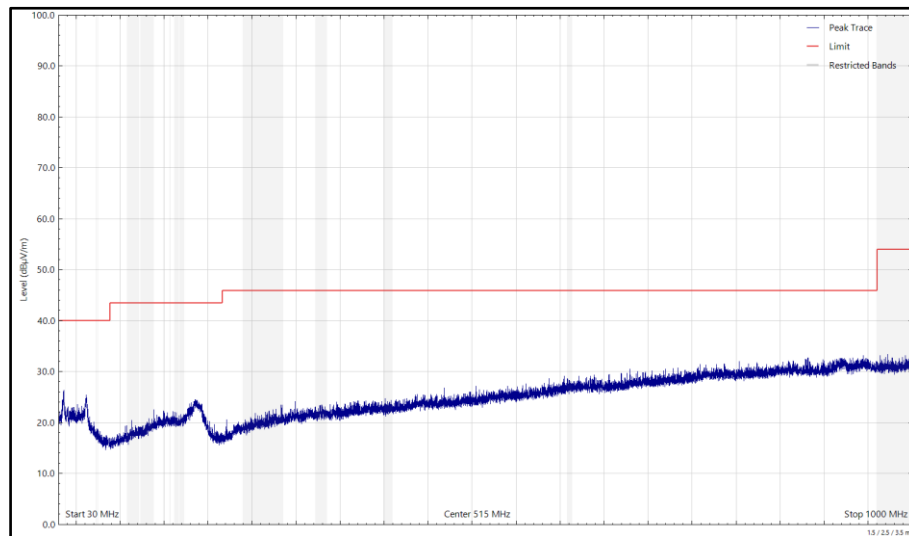


Figure 131 - 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1, 30 MHz to 1 GHz, Vertical (Peak)

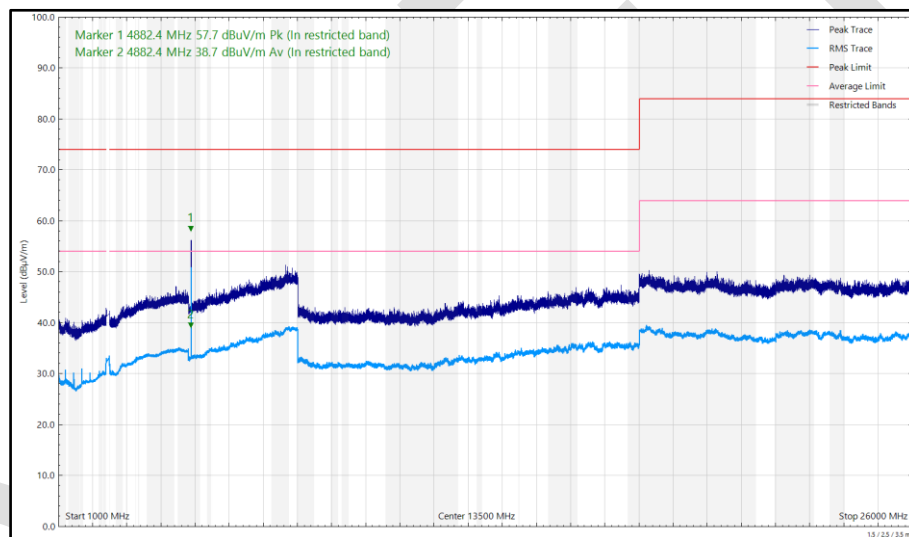


Figure 132 - 2441 MHz (CH2441), DH5, ePA, Core 0 + Core 1, 1 GHz to 26 GHz, Vertical

| Frequency (MHz) | Level (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Detector  | Angle (°) | Height (cm) | Polarisation |
|-----------------|----------------|----------------|-------------|-----------|-----------|-------------|--------------|
| 2389.640        | 31.17          | 54.00          | -22.83      | CISPR Avg | 53        | 148         | Horizontal   |
| 2499.787        | 30.53          | 54.00          | -23.47      | CISPR Avg | 306       | 128         | Horizontal   |
| 4960.235        | 59.70          | 74.00          | -14.30      | Peak      | 220       | 140         | Horizontal   |
| 4960.235        | 40.70          | 54.00          | -13.30      | CISPR Avg | 220       | 140         | Horizontal   |
| 4960.331        | 57.58          | 74.00          | -16.42      | Peak      | 70        | 138         | Vertical     |
| 4960.331        | 38.58          | 54.00          | -15.42      | CISPR Avg | 70        | 138         | Vertical     |

**Table 87 - 2480 MHz (CH2480), DH5, ePA, Core 0 + Core 1, 1 GHz to 18 GHz**

No other emissions found within 20 dB of the limit.

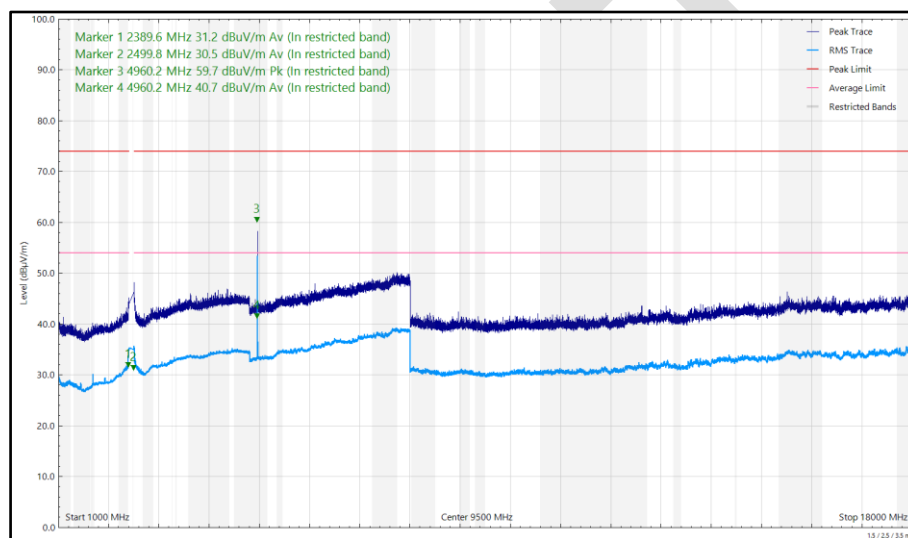


**Figure 133 - 2480 MHz (CH2480), DH5, ePA, Core 0 + Core 1, 1 GHz to 18 GHz, Horizontal**

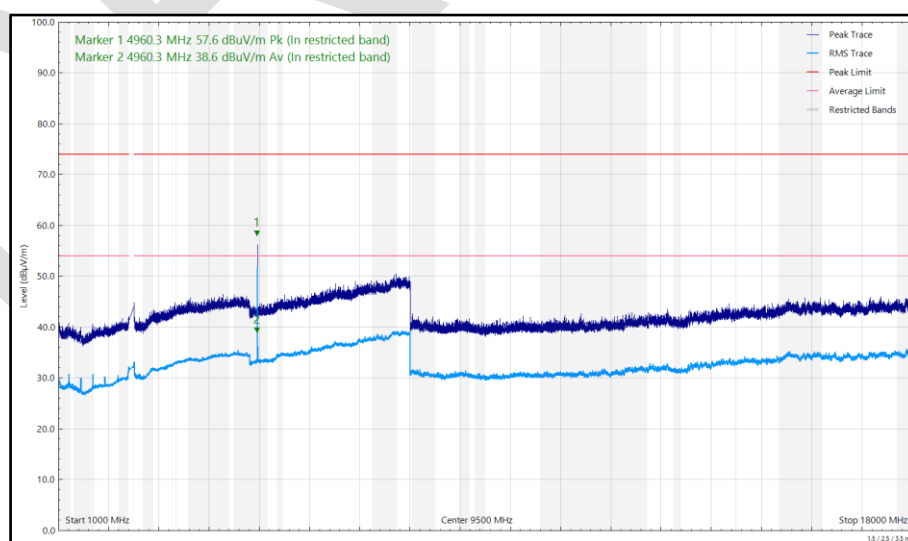


**Figure 134 - 2480 MHz (CH2480), DH5, ePA, Core 0 + Core 1, 1 GHz to 18 GHz, Vertical**



#### FCC 47 CFR Part 15, Limit Clause 15.247 (d)

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 conducted power limits. If the transmitter complies with the conducted 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 § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in 15.209(a)

#### ISED RSS-247, Limit Clause 6.6

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced 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 that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of root-mean-square averaging over a time interval, as permitted under Section 5.4(4), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in RSS-Gen is not required.

In addition, radiated emissions which fall in the restricted bands, as defined in RSS-GEN, clause 8.10, must also comply with the radiated emission limits specified in RSS-GEN clause 8.9.

### **2.8.8 Test Location and Test Equipment Used**

This test was carried out in RF Chamber 16, RF Chamber 17 and RF Chamber 18.

| Instrument                          | Manufacturer       | Type No.      | TE No. | Calibration Period (months) | Calibration Expiry Date |
|-------------------------------------|--------------------|---------------|--------|-----------------------------|-------------------------|
| Emissions Software                  | TUV SUD            | EmX V3.6.3    | 5125   | -                           | TU                      |
| EMI Test Receiver                   | Rohde & Schwarz    | ESW44         | 5911   | 12                          | 29-Oct-2026             |
| DRG Horn Antenna (7.5-18GHz)        | Schwarzbeck        | HWRD750       | 5939   | 12                          | 23-May-2027             |
| DRG Horn Antenna (7.5-18GHz)        | Schwarzbeck        | HWRD750       | 5941   | 12                          | 23-May-2027             |
| TRILOG Super Broadband Test Antenna | Schwarzbeck        | VULB 9168     | 5942   | 24                          | 03-Jan-2027             |
| 1500W (300V 12A) AC Power Supply    | iTech              | IT7324        | 5957   | -                           | TU                      |
| Mast & Turntable Controller         | Maturo Gmbh        | FCU3.0        | 5960   | -                           | TU                      |
| Tilt Antenna Mast                   | Maturo Gmbh        | BAM4.5-P      | 5961   | -                           | TU                      |
| 3m Semi-Anechoic Chamber, Chamber16 | Albatross Projects | RF Chamber 16 | 5972   | 36                          | 07-May-2028             |
| Mast & Turntable Controller         | Maturo Gmbh        | FCU3.0        | 5973   | -                           | TU                      |



| Instrument                                   | Manufacturer        | Type No.                  | TE No. | Calibration Period (months) | Calibration Expiry Date |
|----------------------------------------------|---------------------|---------------------------|--------|-----------------------------|-------------------------|
| Tilt Antenna Mast                            | Maturo Gmbh         | BAM4.5-P                  | 5974   | -                           | TU                      |
| Turntable                                    | Maturo Gmbh         | TT1.5SI                   | 5975   | -                           | TU                      |
| Digital Multimeter                           | Fluke               | 115                       | 6145   | 12                          | 02-Jun-2027             |
| Humidity & Temperature meter                 | R.S Components      | 1364                      | 6149   | 12                          | 28-Aug-2026             |
| Double Ridge Active Horn Antenna (18-40 GHz) | Com-Power           | AHA-840                   | 6188   | 24                          | 31-Jul-2026             |
| SAC Switch Unit                              | TUV SUD             | TUV_SSU_001               | 6191   | 12                          | 18-Dec-2026             |
| 8GHz Highpass Filter                         | Wainwright          | WHKX 7150 8000 18000 50SS | 6194   | 12                          | 23-Apr-2027             |
| 8GHz Highpass Filter                         | Wainwright          | WHKX 7150 8000 18000 50SS | 6196   | 12                          | 23-Apr-2027             |
| Pre Amp 8 - 18 GHz                           | Wright Technologies | APS06 0061                | 6200   | 12                          | 23-Apr-2027             |
| Attenuator (4 dB)                            | Pasternack          | PE7074-4                  | 6202   | 24                          | 03-Jan-2027             |
| Cable (SMA to SMA 20cm)                      | TUV SUD             | MH-FH 8-18                | 6215   | 12                          | 23-Apr-2027             |
| Cable (SMA to SMA 20cm)                      | TUV SUD             | MH-FH 8-18                | 6220   | 12                          | 23-Apr-2027             |
| EMI Test Receiver                            | Rohde & Schwarz     | ESW44                     | 6294   | 12                          | 23-Mar-2027             |
| Cable (SMA to SMA 1m)                        | Junkosha            | MWX221/B                  | 6305   | 12                          | 19-May-2027             |
| Cable (K Type 2m)                            | Junkosha            | MWX241-02000KMSKMS/B      | 6323   | 12                          | 27-Apr-2027             |
| SAC Switch Unit                              | TUV SUD             | TUV_SSU_004 PLC           | 6349   | 12                          | 18-May-2027             |
| 3m Semi-Anechoic Chamber                     | Albatross Projects  | Chamber 18                | 6597   | 36                          | 08-May-2028             |
| AC Power Supply                              | iTech               | IT7324                    | 6657   | -                           | TU                      |
| 3m Semi-Anechoic Chamber                     | Albatross Projects  | RF Chamber 17             | 6658   | 36                          | 07-May-2028             |
| 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                      |
| Pre Amp 8 - 18 GHz                           | Wright Technologies | APS06-0061                | 6783   | 12                          | 23-Apr-2027             |
| Turntable                                    | Maturo Gmbh         | TT1.5SI                   | 6797   | -                           | TU                      |
| EMI Test Receiver                            | Rohde & Schwarz     | ESW44                     | 6805   | 12                          | 24-Jul-2026             |



| Instrument                        | Manufacturer | Type No.             | TE No. | Calibration Period (months) | Calibration Expiry Date |
|-----------------------------------|--------------|----------------------|--------|-----------------------------|-------------------------|
| AC Programmable Power Supply      | iTech        | IT7324               | 6812   | -                           | TU                      |
| Broad-Band Horn Antenna 1-10GHz N | Schwarzbeck  | BBHA9120B            | 6825   | 12                          | 14-Sep-2026             |
| Handheld Hygrometer               | Fluke        | 971                  | 6837   | 12                          | 16-Sep-2026             |
| Handheld Hygrometer               | Fluke        | 971                  | 6838   | 12                          | 16-Sep-2026             |
| 1m SMA-Type Cable                 | Junkosha     | MWX221-01000AMSAMS/B | 6841   | 12                          | 23-Sep-2026             |
| 1m SMA-Type Cable                 | Junkosha     | MWX221-01000AMSAMS/B | 6844   | 12                          | 06-Sep-2026             |
| 8m SMA-Type Cable                 | Junkosha     | MWX221-08000AMSAMS/B | 6849   | 12                          | 06-Nov-2026             |
| 8m SMA-Type Cable                 | Junkosha     | MWX221-08000AMSAMS/B | 6850   | 12                          | 23-Oct-2026             |
| 8m SMA-Type Cable                 | Junkosha     | MWX221-08000AMSAMS/B | 6851   | 12                          | 06-Nov-2026             |
| SAC Switch Unit                   | TUV SUD      | TUV_SSU_004 PLC      | 6886   | 12                          | 02-Dec-2026             |

**Table 88**

TU - Traceability Unscheduled

### 3 Measurement Uncertainty

For a 95% confidence level, the measurement uncertainties for defined systems are:

| Test Name                                              | Measurement Uncertainty                                        |
|--------------------------------------------------------|----------------------------------------------------------------|
| Restricted Band Edges                                  | 30 MHz to 1 GHz: $\pm 5.2$ dB<br>1 GHz to 40 GHz: $\pm 6.3$ dB |
| Frequency Hopping Systems - Average Time of Occupancy  | -                                                              |
| Frequency Hopping Systems - Channel Separation         | $\pm 34.68$ kHz                                                |
| Frequency Hopping Systems - Number of Hopping Channels | -                                                              |
| Frequency Hopping Systems - 20 dB Bandwidth            | $\pm 34.68$ kHz                                                |
| Maximum Conducted Output Power                         | Method PM: $\pm 0.65$ dB<br>Method SA: $\pm 1.05$ dB           |
| Authorised Band Edges                                  | 30 MHz to 1 GHz: $\pm 5.2$ dB<br>1 GHz to 40 GHz: $\pm 6.3$ dB |
| Spurious Radiated Emissions                            | 30 MHz to 1 GHz: $\pm 5.2$ dB<br>1 GHz to 40 GHz: $\pm 6.3$ dB |

**Table 89**

#### Measurement Uncertainty Decision Rule – Accuracy Method

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115:2021, Clause 4.4.3 (Procedure 2). The measurement results are directly compared with the test limit to determine conformance with the requirements of the standard.

Risk: The uncertainty of measurement about the measured result is negligible with regard to the final pass/fail decision. The measurement result can be directly compared with the test limit to determine conformance with the requirement (compare IEC Guide 115). The level of risk to falsely accept and falsely reject items is further described in ILAC-G8.