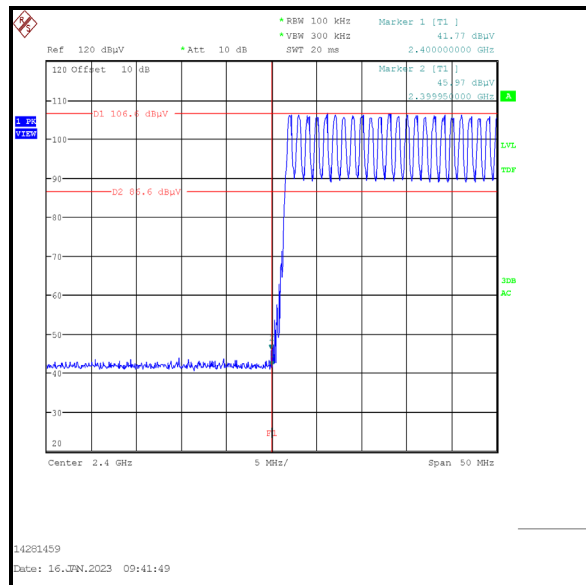
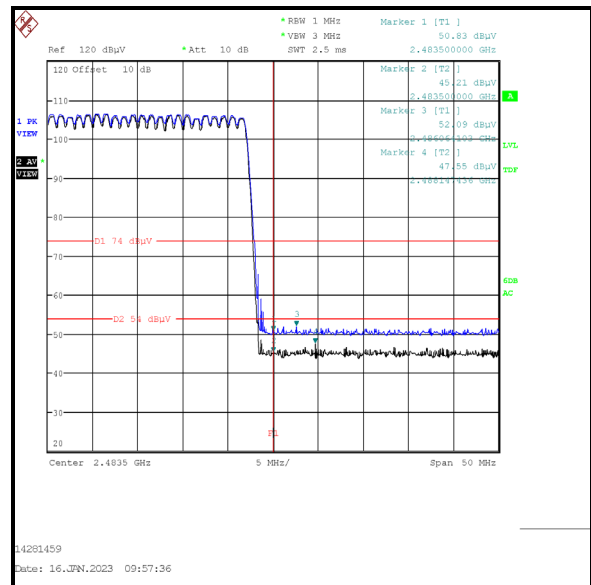
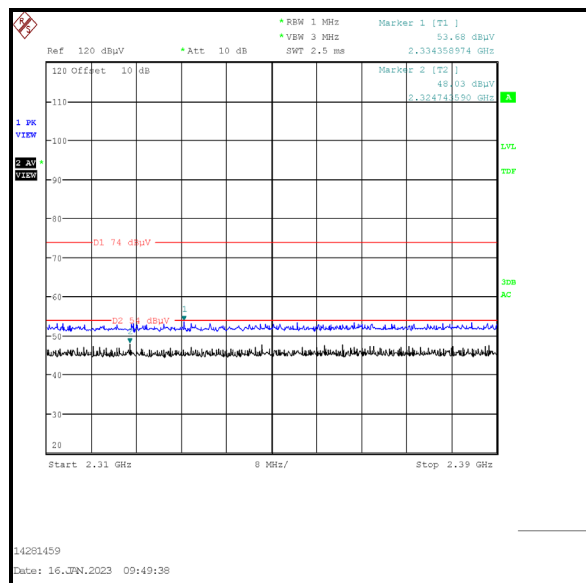


**Transmitter Band Edge Radiated Emissions (continued)****Results: Hopping Mode / DH5 / SISO / Core 2****Lower Band Edge****Upper Band Edge****2310 MHz to 2390 MHz Restricted Band**

**Transmitter Band Edge Radiated Emissions (continued)****Results: Static Mode / 2DH5 / SISO / Core 2**

| Frequency (MHz) | Antenna Polarity | Peak Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|---------------------------|----------------------|-------------|----------|
| 2399.950        | Horizontal       | 46.6                      | 82.6*                | 36.0        | Complied |
| 2400.0          | Horizontal       | 46.2                      | 82.6*                | 36.4        | Complied |
| 2483.5          | Horizontal       | 50.9                      | 74.0                 | 23.1        | Complied |
| 2490.311        | Horizontal       | 52.6                      | 74.0                 | 21.4        | Complied |

| Frequency (MHz) | Antenna Polarity | Average Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|------------------------------|----------------------|-------------|----------|
| 2483.5          | Horizontal       | 31.9**                       | 54.0                 | 22.1        | Complied |

**Results: 2310 MHz to 2390 MHz Restricted Band / Peak**

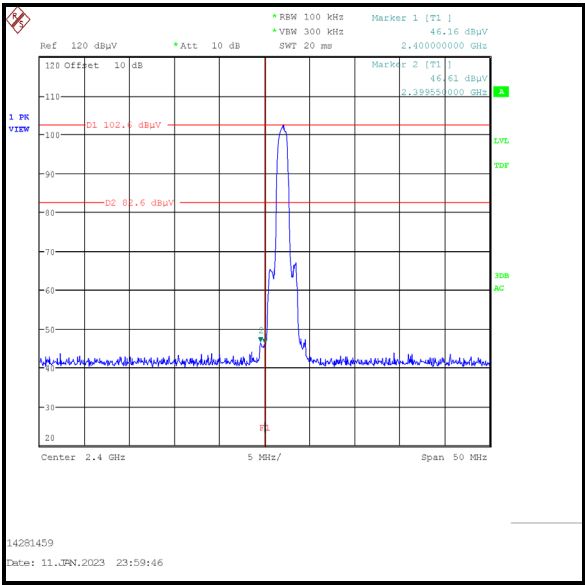
| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2382.436        | Horizontal       | 53.8                 | 74.0                 | 20.2        | Complied |

**Results: 2310 MHz to 2390 MHz Restricted Band / Average**

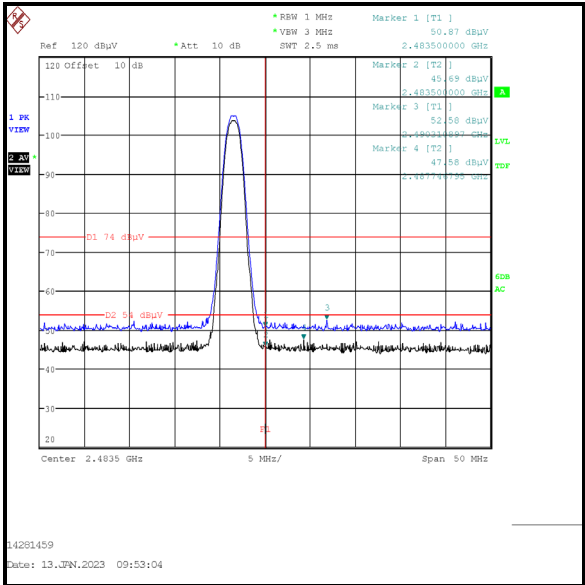
| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2349.615        | Horizontal       | 47.5                 | 54.0                 | 6.5         | Complied |

Transmitter Band Edge Radiated Emissions (continued)

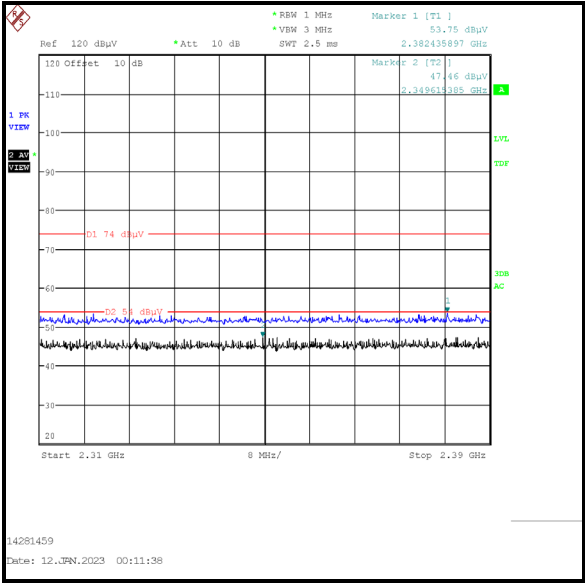
Results: Static Mode / 2DH5 / SISO / Core 2



Lower Band Edge



Upper Band Edge



2310 MHz to 2390 MHz Restricted Band

**Transmitter Band Edge Radiated Emissions (continued)****Results: Hopping Mode / 2DH5 / SISO / Core 2**

| Frequency (MHz) | Antenna Polarity | Peak Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|---------------------------|----------------------|-------------|----------|
| 2399.900        | Horizontal       | 46.2                      | 83.6*                | 37.4        | Complied |
| 2400.0          | Horizontal       | 45.9                      | 83.6*                | 37.7        | Complied |
| 2483.5          | Horizontal       | 50.5                      | 74.0                 | 23.5        | Complied |
| 2490.311        | Horizontal       | 52.0                      | 74.0                 | 22.0        | Complied |

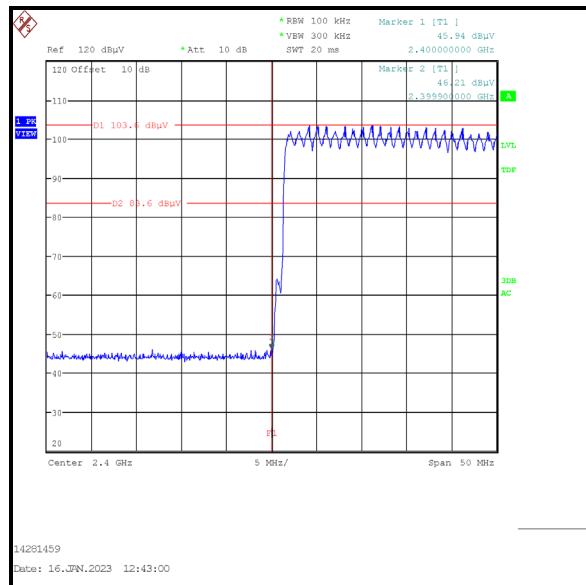
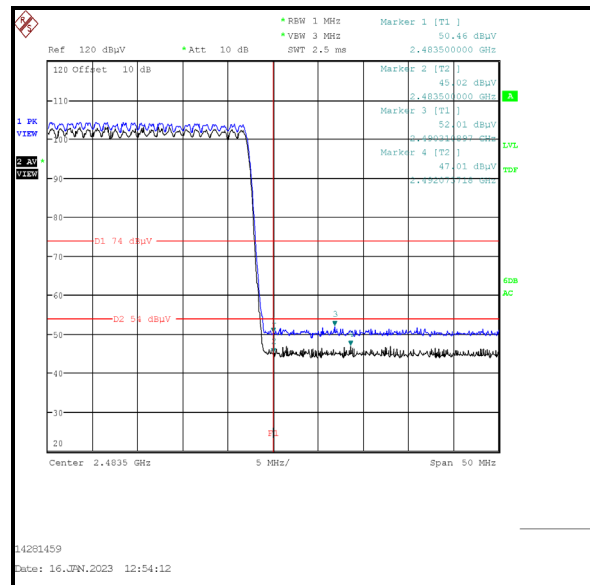
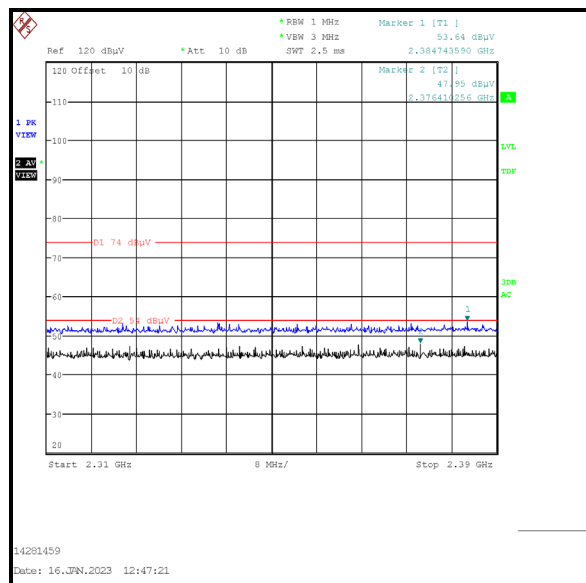
| Frequency (MHz) | Antenna Polarity | Average Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|------------------------------|----------------------|-------------|----------|
| 2483.5          | Horizontal       | 31.5**                       | 54.0                 | 22.5        | Complied |

**Results: 2310 MHz to 2390 MHz Restricted Band / Peak**

| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2384.744        | Horizontal       | 53.6                 | 74.0                 | 20.4        | Complied |

**Results: 2310 MHz to 2390 MHz Restricted Band / Average**

| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2376.410        | Horizontal       | 48.0                 | 54.0                 | 6.0         | Complied |

**Transmitter Band Edge Radiated Emissions (continued)****Results: Hopping Mode / 2DH5 / SISO / Core 2****Lower Band Edge****Upper Band Edge****2310 MHz to 2390 MHz Restricted Band**

**Transmitter Band Edge Radiated Emissions (continued)****Results: Static Mode / 3DH5 / SISO / Core 2**

| Frequency (MHz) | Antenna Polarity | Peak Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|---------------------------|----------------------|-------------|----------|
| 2399.800        | Horizontal       | 46.7                      | 82.6*                | 35.9        | Complied |
| 2400.0          | Horizontal       | 45.4                      | 82.6*                | 37.2        | Complied |
| 2483.5          | Horizontal       | 50.5                      | 74.0                 | 23.5        | Complied |
| 2495.240        | Horizontal       | 51.8                      | 74.0                 | 22.2        | Complied |

| Frequency (MHz) | Antenna Polarity | Average Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|------------------------------|----------------------|-------------|----------|
| 2483.5          | Horizontal       | 31.5**                       | 54.0                 | 22.5        | Complied |

**Results: 2310 MHz to 2390 MHz Restricted Band / Peak**

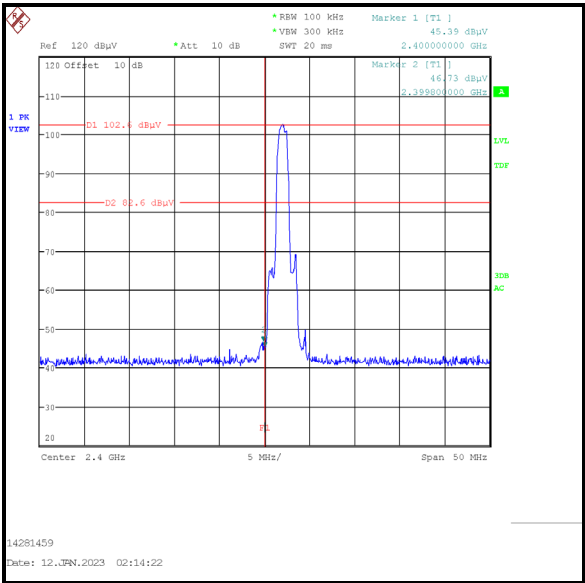
| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2372.564        | Horizontal       | 53.6                 | 74.0                 | 20.4        | Complied |

**Results: 2310 MHz to 2390 MHz Restricted Band / Average**

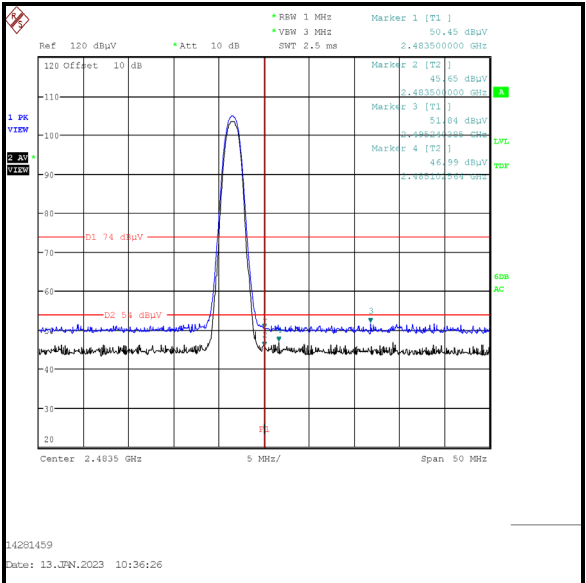
| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2316.154        | Horizontal       | 48.4                 | 54.0                 | 5.6         | Complied |

Transmitter Band Edge Radiated Emissions (continued)

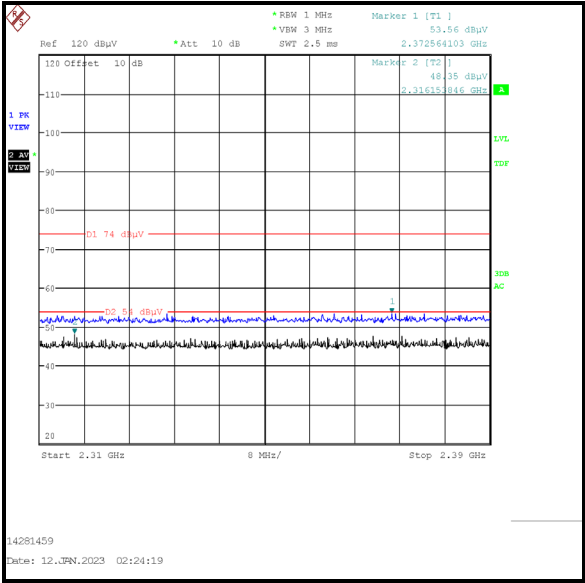
Results: Static Mode / 3DH5 / SISO / Core 2



Lower Band Edge



Upper Band Edge



2310 MHz to 2390 MHz Restricted Band

**Transmitter Band Edge Radiated Emissions (continued)****Results: Hopping Mode / 3DH5 / SISO / Core 2**

| Frequency (MHz) | Antenna Polarity | Peak Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|---------------------------|----------------------|-------------|----------|
| 2399.600        | Horizontal       | 44.2                      | 83.7*                | 39.5        | Complied |
| 2400.0          | Horizontal       | 43.2                      | 83.7*                | 40.5        | Complied |
| 2483.5          | Horizontal       | 50.5                      | 74.0                 | 23.5        | Complied |
| 2498.564        | Horizontal       | 53.6                      | 74.0                 | 20.4        | Complied |

| Frequency (MHz) | Antenna Polarity | Average Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|------------------------------|----------------------|-------------|----------|
| 2483.5          | Horizontal       | 31.5**                       | 54.0                 | 22.5        | Complied |

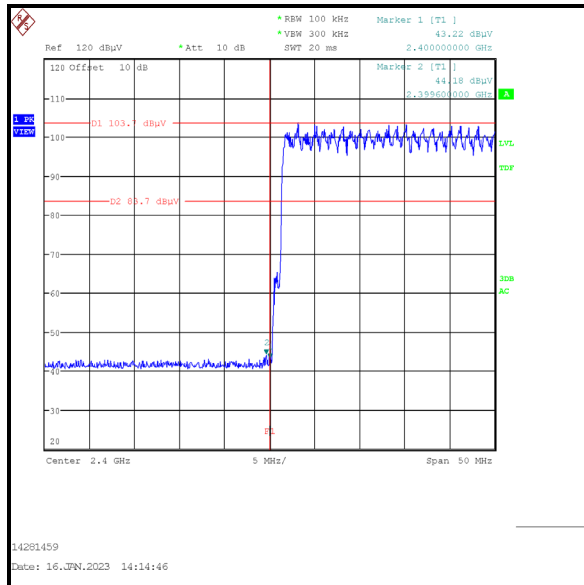
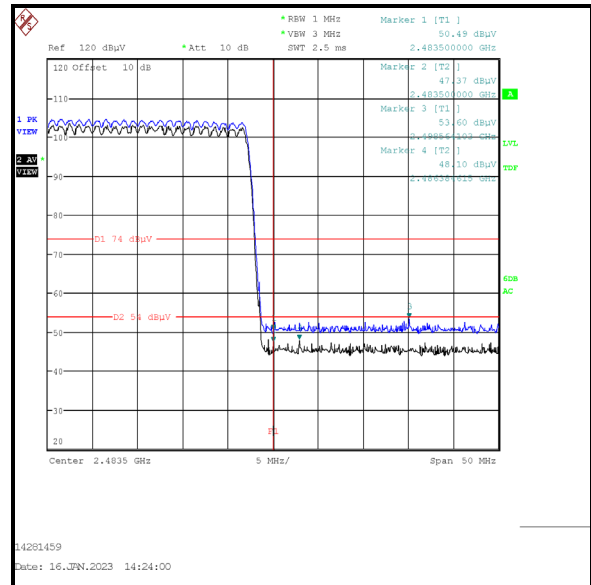
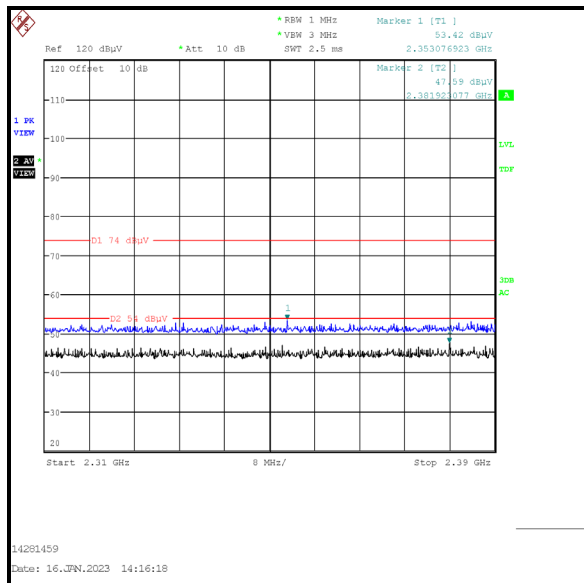
**Results: 2310 MHz to 2390 MHz Restricted Band / Peak**

| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2353.077        | Horizontal       | 53.4                 | 74.0                 | 20.6        | Complied |

**Results: 2310 MHz to 2390 MHz Restricted Band / Average**

| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2381.923        | Horizontal       | 47.6                 | 54.0                 | 6.4         | Complied |



**Transmitter Band Edge Radiated Emissions (continued)****Results: Hopping Mode / 3DH5 / SISO / Core 2****Lower Band Edge****Upper Band Edge****2310 MHz to 2390 MHz Restricted Band**

**Transmitter Band Edge Radiated Emissions (continued)****Results: Static Mode / DH5 / Beamforming / Core 0 + Core 1**

| Frequency (MHz) | Antenna Polarity | Peak Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|---------------------------|----------------------|-------------|----------|
| 2399.600        | Horizontal       | 45.3                      | 91.1*                | 45.8        | Complied |
| 2400.0          | Horizontal       | 44.5                      | 91.1*                | 46.6        | Complied |
| 2483.5          | Horizontal       | 53.1                      | 74.0                 | 20.9        | Complied |
| 2493.917        | Horizontal       | 54.3                      | 74.0                 | 19.7        | Complied |

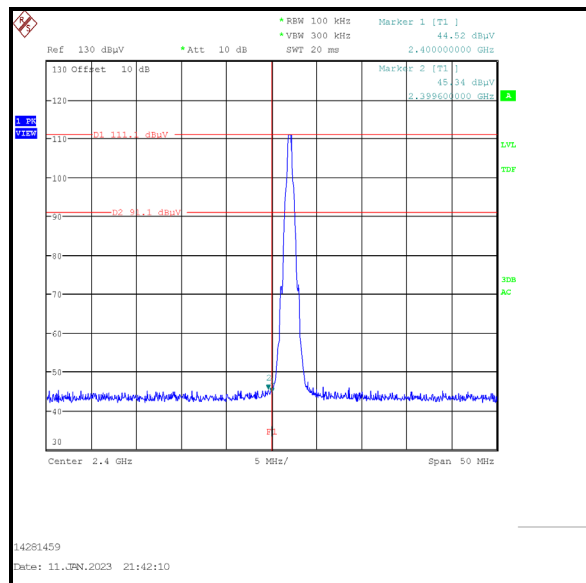
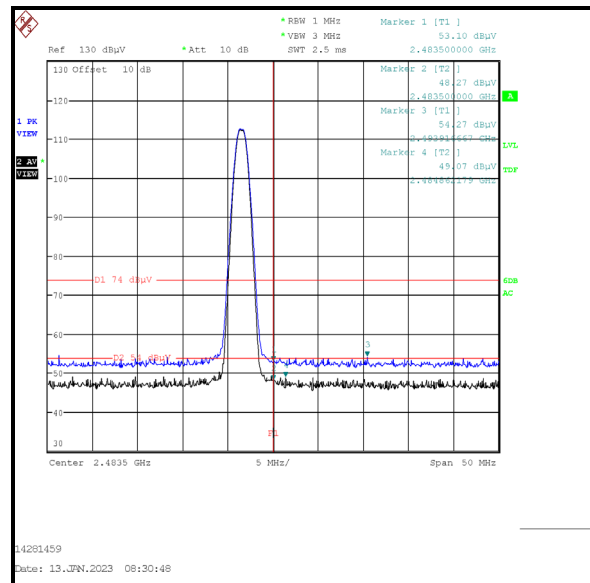
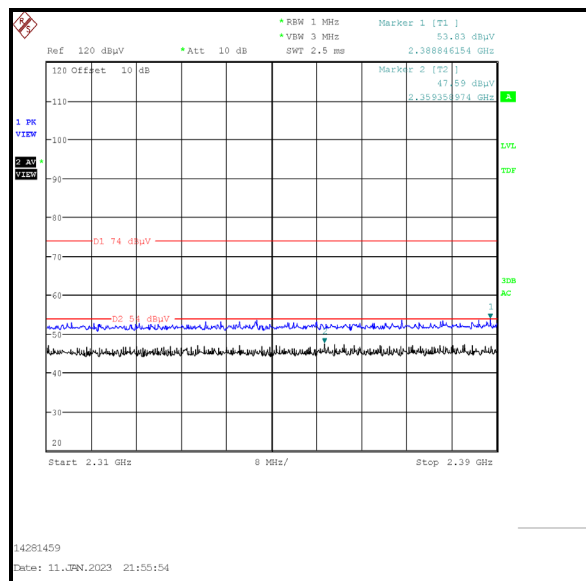
| Frequency (MHz) | Antenna Polarity | Average Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|------------------------------|----------------------|-------------|----------|
| 2483.5          | Horizontal       | 34.1**                       | 54.0                 | 19.9        | Complied |

**Results: 2310 MHz to 2390 MHz Restricted Band / Peak**

| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2388.846        | Horizontal       | 53.8                 | 74.0                 | 20.2        | Complied |

**Results: 2310 MHz to 2390 MHz Restricted Band / Average**

| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2359.359        | Horizontal       | 47.6                 | 54.0                 | 6.4         | Complied |

**Transmitter Band Edge Radiated Emissions (continued)****Results: Static Mode / DH5 / Beamforming / Core 0 + Core 1****Lower Band Edge****Upper Band Edge****2310 MHz to 2390 MHz Restricted Band**

**Transmitter Band Edge Radiated Emissions (continued)****Results: Hopping Mode / DH5 / Beamforming / Core 0 + Core 1**

| Frequency (MHz) | Antenna Polarity | Peak Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|---------------------------|----------------------|-------------|----------|
| 2399.950        | Horizontal       | 49.3                      | 91.4*                | 42.1        | Complied |
| 2400.0          | Horizontal       | 44.7                      | 91.4*                | 46.7        | Complied |
| 2483.5          | Horizontal       | 52.6                      | 74.0                 | 21.4        | Complied |
| 2499.606        | Horizontal       | 54.5                      | 74.0                 | 19.5        | Complied |

| Frequency (MHz) | Antenna Polarity | Average Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|------------------------------|----------------------|-------------|----------|
| 2483.5          | Horizontal       | 33.6**                       | 54.0                 | 20.4        | Complied |

**Results: 2310 MHz to 2390 MHz Restricted Band / Peak**

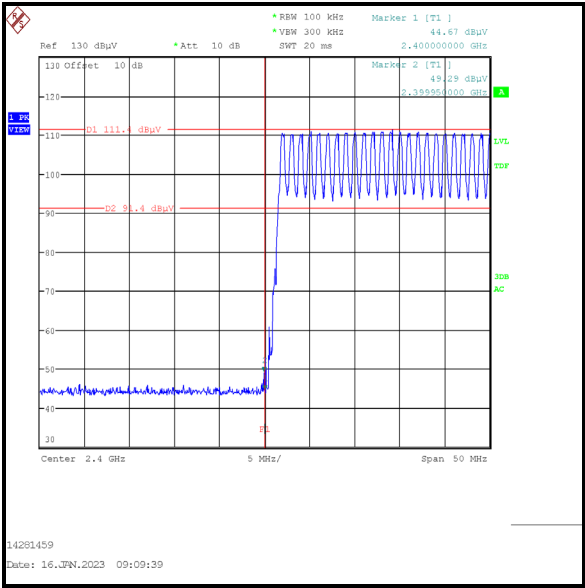
| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2334.487        | Horizontal       | 53.2                 | 74.0                 | 20.8        | Complied |

**Results: 2310 MHz to 2390 MHz Restricted Band / Average**

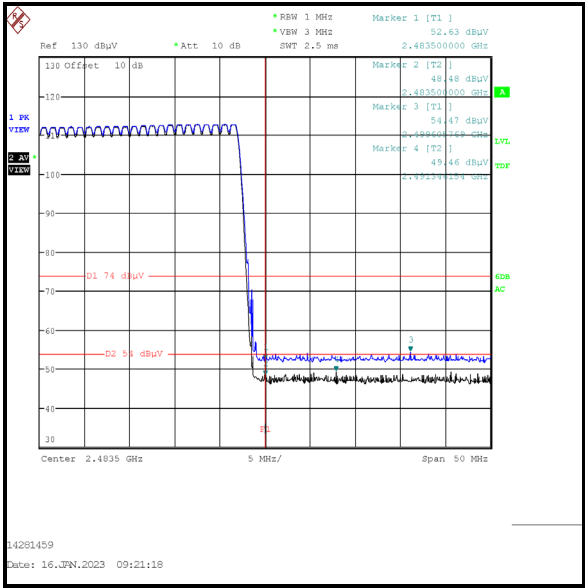
| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2346.795        | Horizontal       | 48.0                 | 54.0                 | 6.0         | Complied |

Transmitter Band Edge Radiated Emissions (continued)

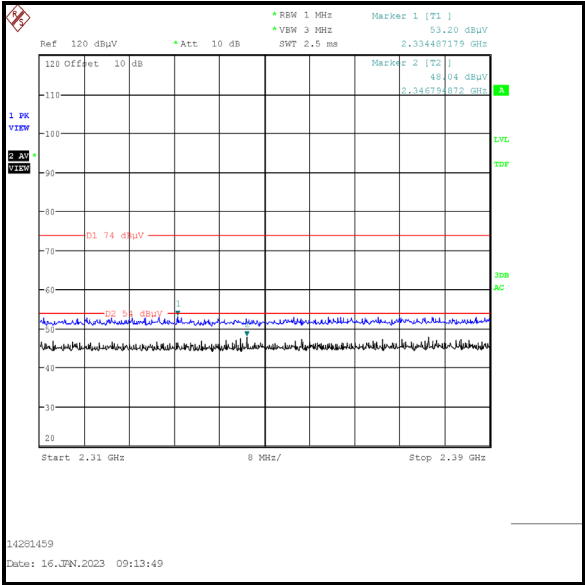
Results: Hopping Mode / DH5 / Beamforming / Core 0 + Core 1



Lower Band Edge



Upper Band Edge



2310 MHz to 2390 MHz Restricted Band

**Transmitter Band Edge Radiated Emissions (continued)****Results: Static Mode / 2DH5 / Beamforming / Core 0 + Core 1**

| Frequency (MHz) | Antenna Polarity | Peak Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|---------------------------|----------------------|-------------|----------|
| 2400.0          | Horizontal       | 51.1                      | 87.7*                | 36.6        | Complied |
| 2483.5          | Horizontal       | 52.8                      | 74.0                 | 21.2        | Complied |
| 2492.795        | Horizontal       | 54.3                      | 74.0                 | 19.7        | Complied |

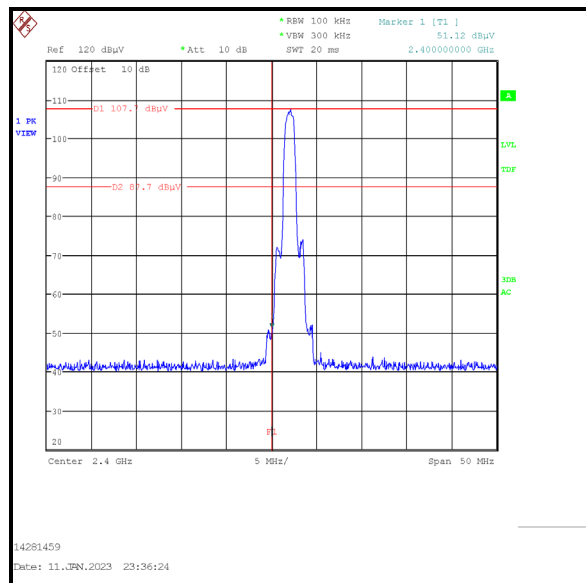
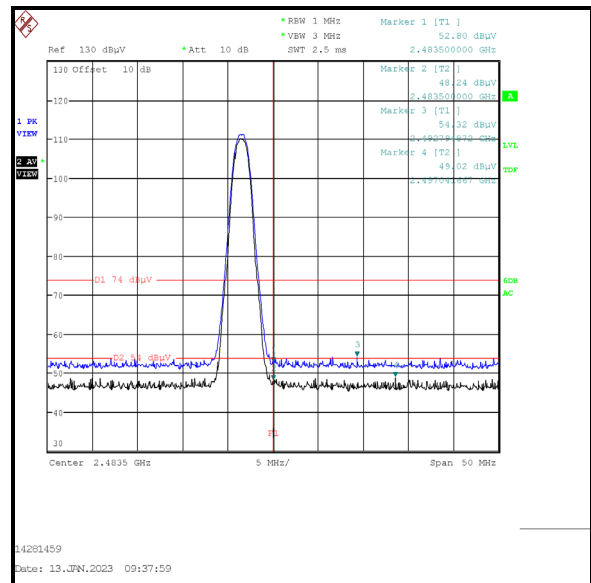
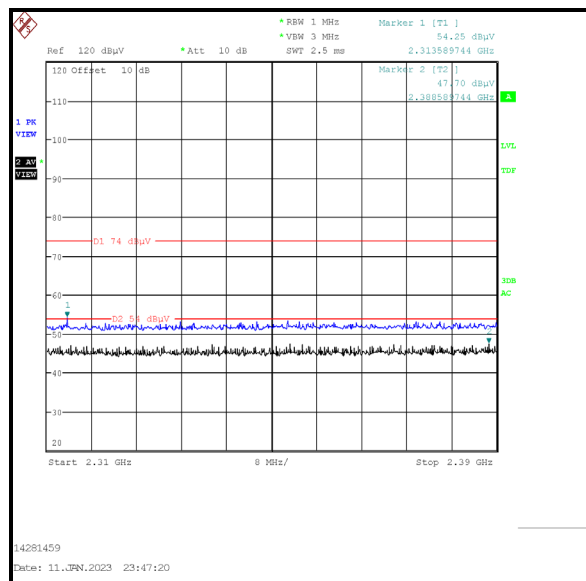
| Frequency (MHz) | Antenna Polarity | Average Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|------------------------------|----------------------|-------------|----------|
| 2483.5          | Horizontal       | 33.8**                       | 54.0                 | 20.2        | Complied |

**Results: 2310 MHz to 2390 MHz Restricted Band / Peak**

| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2313.590        | Horizontal       | 54.3                 | 74.0                 | 19.7        | Complied |

**Results: 2310 MHz to 2390 MHz Restricted Band / Average**

| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2388.590        | Horizontal       | 47.7                 | 54.0                 | 6.3         | Complied |

**Transmitter Band Edge Radiated Emissions (continued)****Results: Static Mode / 2DH5 / Beamforming / Core 0 + Core 1****Lower Band Edge****Upper Band Edge****2310 MHz to 2390 MHz Restricted Band**

**Transmitter Band Edge Radiated Emissions (continued)****Results: Hopping Mode / 2DH5 / Beamforming / Core 0 + Core 1**

| Frequency (MHz) | Antenna Polarity | Peak Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|---------------------------|----------------------|-------------|----------|
| 2399.700        | Horizontal       | 50.5                      | 87.8*                | 37.3        | Complied |
| 2400.0          | Horizontal       | 47.7                      | 87.8*                | 40.1        | Complied |
| 2483.5          | Horizontal       | 52.5                      | 74.0                 | 21.5        | Complied |
| 2490.551        | Horizontal       | 54.8                      | 74.0                 | 19.2        | Complied |

| Frequency (MHz) | Antenna Polarity | Average Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|------------------------------|----------------------|-------------|----------|
| 2483.5          | Horizontal       | 33.5**                       | 54.0                 | 20.5        | Complied |

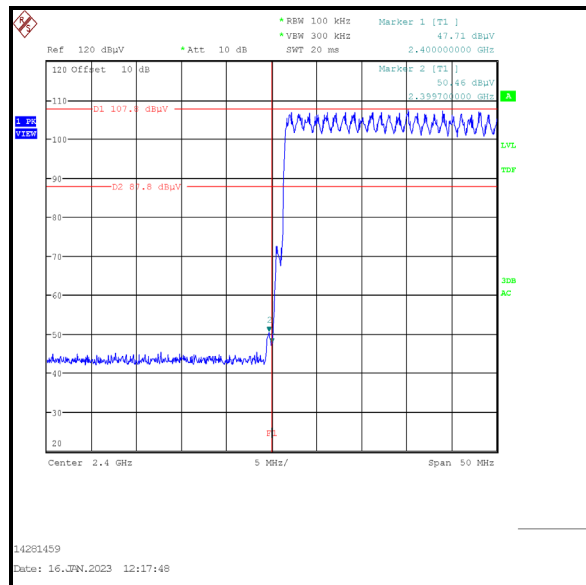
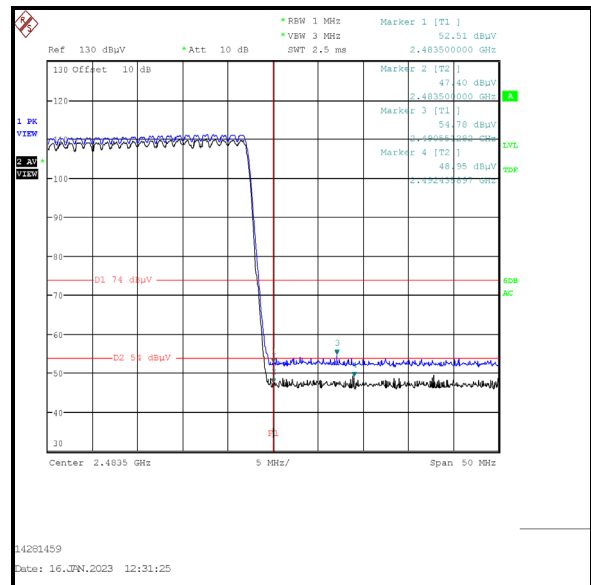
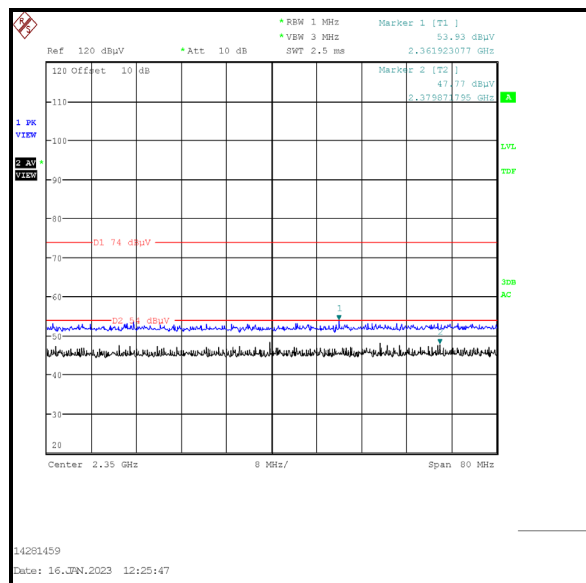
**Results: 2310 MHz to 2390 MHz Restricted Band / Peak**

| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2361.923        | Horizontal       | 53.9                 | 74.0                 | 20.1        | Complied |

**Results: 2310 MHz to 2390 MHz Restricted Band / Average**

| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2379.872        | Horizontal       | 47.8                 | 54.0                 | 6.2         | Complied |



**Transmitter Band Edge Radiated Emissions (continued)****Results: Hopping Mode / 2DH5 / Beamforming / Core 0 + Core 1****Lower Band Edge****Upper Band Edge****2310 MHz to 2390 MHz Restricted Band**

**Transmitter Band Edge Radiated Emissions (continued)****Results: Static Mode / 3DH5 / Beamforming / Core 0 + Core 1**

| Frequency (MHz) | Antenna Polarity | Peak Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|---------------------------|----------------------|-------------|----------|
| 2399.800        | Horizontal       | 51.4                      | 87.8*                | 36.4        | Complied |
| 2400.0          | Horizontal       | 49.9                      | 87.8*                | 37.9        | Complied |
| 2483.5          | Horizontal       | 53.5                      | 74.0                 | 20.5        | Complied |
| 2497.483        | Horizontal       | 54.0                      | 74.0                 | 20.0        | Complied |

| Frequency (MHz) | Antenna Polarity | Average Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|------------------------------|----------------------|-------------|----------|
| 2483.5          | Horizontal       | 34.5**                       | 54.0                 | 19.5        | Complied |

**Results: 2310 MHz to 2390 MHz Restricted Band / Peak**

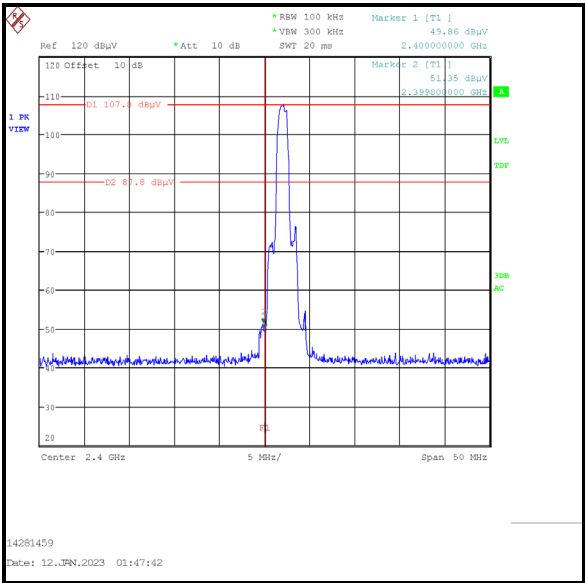
| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2363.462        | Horizontal       | 53.7                 | 74.0                 | 20.3        | Complied |

**Results: 2310 MHz to 2390 MHz Restricted Band / Average**

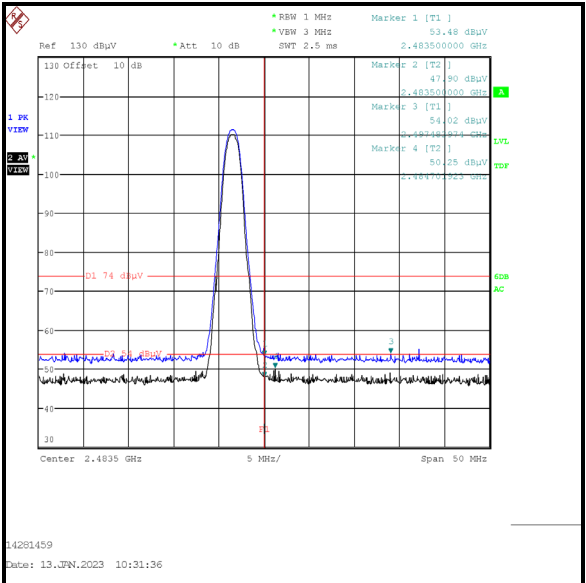
| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2318.205        | Horizontal       | 48.1                 | 54.0                 | 5.9         | Complied |

Transmitter Band Edge Radiated Emissions (continued)

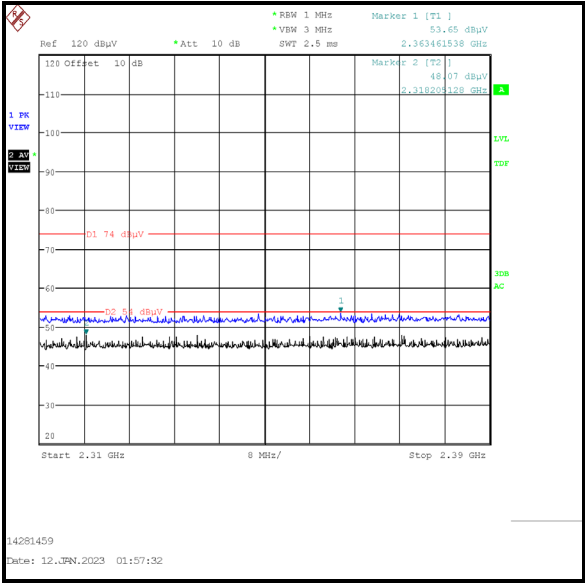
Results: Static Mode / 3DH5 / Beamforming / Core 0 + Core 1



Lower Band Edge



Upper Band Edge



2310 MHz to 2390 MHz Restricted Band

**Transmitter Band Edge Radiated Emissions (continued)****Results: Hopping Mode / 3DH5 / Beamforming / Core 0 + Core 1**

| Frequency (MHz) | Antenna Polarity | Peak Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|---------------------------|----------------------|-------------|----------|
| 2399.750        | Horizontal       | 50.6                      | 87.9*                | 37.3        | Complied |
| 2400.0          | Horizontal       | 49.0                      | 87.9*                | 38.9        | Complied |
| 2483.5          | Horizontal       | 52.1                      | 74.0                 | 21.9        | Complied |
| 2499.359        | Horizontal       | 53.5                      | 74.0                 | 20.5        | Complied |

| Frequency (MHz) | Antenna Polarity | Average Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|------------------------------|----------------------|-------------|----------|
| 2483.5          | Horizontal       | 33.1**                       | 54.0                 | 20.9        | Complied |

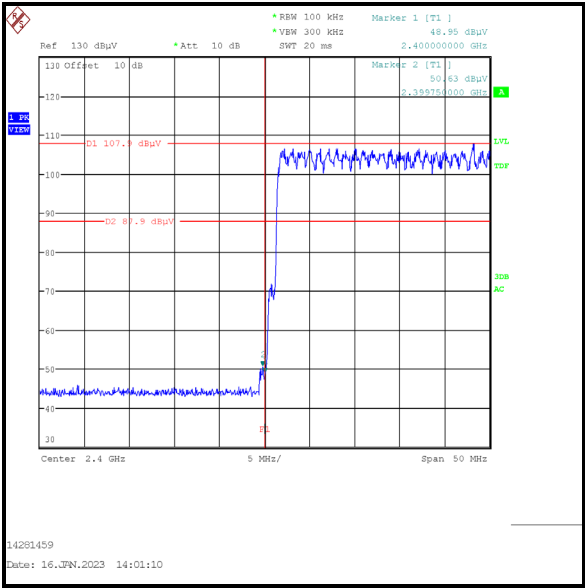
**Results: 2310 MHz to 2390 MHz Restricted Band / Peak**

| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2356.282        | Horizontal       | 54.1                 | 74.0                 | 19.9        | Complied |

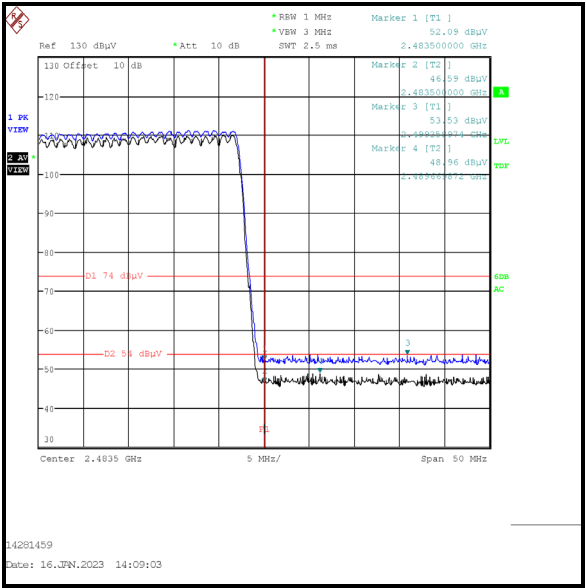
**Results: 2310 MHz to 2390 MHz Restricted Band / Average**

| Frequency (MHz) | Antenna Polarity | Level (dB $\mu$ V/m) | Limit (dB $\mu$ V/m) | Margin (dB) | Result   |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 2369.231        | Horizontal       | 48.6                 | 54.0                 | 5.4         | Complied |

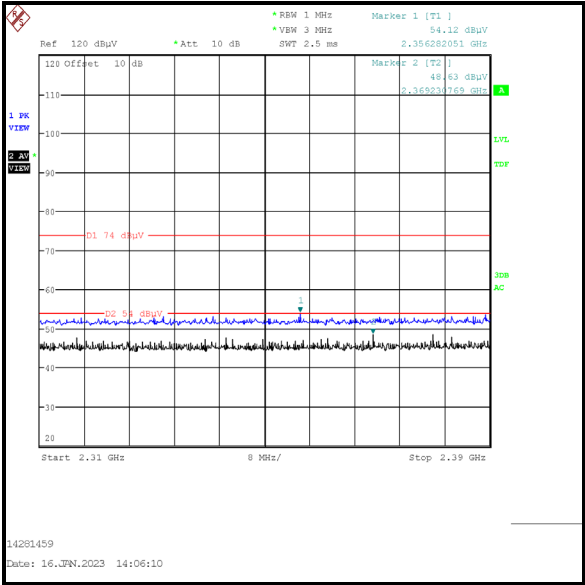
**Transmitter Band Edge Radiated Emissions (continued)**  
**Results: Hopping Mode / 3DH5 / Beamforming / Core 0 + Core 1**



**Lower Band Edge**



**Upper Band Edge**



**2310 MHz to 2390 MHz Restricted Band**

## **Appendix 1**

### **FHSS Duty Cycle Correction Factor Calculation**

In accordance with KDB 558074 section 9 and ANSI C63.10 section 7.5, a duty cycle correction factor may be applied to calculate the average radiated field strength emission levels for an FHSS device.

The following values were taken from the *Bluetooth* Core Specification V5.0 to give the worst case correction:

| Modulation                                                              | DH5, 2DH5 and 3DH5 |
|-------------------------------------------------------------------------|--------------------|
| Channel Hopping Rate (Hops/s)                                           | 1600               |
| Tx Timeslots                                                            | 5                  |
| Rx Timeslots                                                            | 1                  |
| Adjusted Hopping Rate for Adaptive Frequency Hopping (Hops/s)           | 266.667            |
| Time per Hop (ms)                                                       | 3.75               |
| Minimum Number of Channels                                              | 20                 |
| Time per Hop Sequence (ms)                                              | 75                 |
| Maximum Number of Hops on One Channel in any 100 ms Observation Period  | 3                  |
| Maximum Dwell Time on One Channel in any 100 ms Observation Period (ms) | 11.25              |
| Calculated Duty cycle correction factor applied (dB)                    | 19.0               |
| Maximum Duty cycle correction factor applied (dB)                       | 19.0               |

The duty cycle correction factor was calculated based on the above values:

$$DH5, 2DH5 \text{ and } 3DH5: 20 * \text{Log}(11.25 \text{ ms} / 100 \text{ ms}) = 19.0 \text{ dB}$$

**--- END OF REPORT ---**