



### 2.1.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

| Instrument                   | Manufacturer          | Type No                   | TE No | Calibration Period (months) | Calibration Due |
|------------------------------|-----------------------|---------------------------|-------|-----------------------------|-----------------|
| Rubidium Standard            | Rohde & Schwarz       | XSRM                      | 1316  | 6                           | 08-Nov-2020     |
| Multimeter                   | Iso-tech              | IDM101                    | 2424  | 12                          | 12-Dec-2020     |
| Hygrometer                   | Rotronic              | A1                        | 2760  | 12                          | 02-Jan-2021     |
| Frequency Standard           | Spectracom            | SecureSync 1200-0408-0601 | 4393  | 6                           | 08-Nov-2020     |
| AC Programmable Power Supply | iTech                 | IT7324                    | 5225  | -                           | O/P Mon         |
| MXA Signal Analyser          | Keysight Technologies | N9020B                    | 5528  | 24                          | 04-Mar-2022     |
| Signal Commissioning Unit    | TUV SUD               | SCU001                    | 5546  | 12                          | 15-Apr-2021     |

**Table 46**

TU - Traceability Unscheduled

O/P Mon – Output Monitored using calibrated equipment



## **2.2 Maximum Conducted Output Power**

### **2.2.1 Specification Reference**

FCC 47 CFR Part 15C, Clause 15.247 (b)  
ISED RSS-247, Clause 5.4  
ISED RSS-GEN, Clause 6.12

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

A2348, S/N: C07D100D02DH - Modification State 0

### **2.2.3 Date of Test**

30-September-2020

### **2.2.4 Test Method**

The test was performed in accordance with ANSI C63.10, clause 11.9.2.3.2

MIMO output port summing was performed in accordance with KDB 662911 D01:

For transmit beamforming (TxBF) mode it was calculated in accordance with clause E)1.

### **2.2.5 Environmental Conditions**

|                     |         |
|---------------------|---------|
| Ambient Temperature | 22.4 °C |
| Relative Humidity   | 48.7 %  |



## 2.2.6 Test Results

### 2.4 GHz Bluetooth Low Energy (DTS)

iPA

Antenna Port Configuration: SISO

Modulation: 8-DPSK (HDR4)

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |        |            |        |
|----------------------|--------------------------------------|--------|------------|--------|
|                      | Average Power                        |        | Peak Power |        |
|                      | Core 0                               | Core 2 | Core 0     | Core 2 |
| 2404                 | 5.7                                  | 5.6    | 8.5        | 8.4    |
| 2441                 | 5.8                                  | 5.4    | 8.6        | 8.1    |
| 2478                 | 5.7                                  | 5.5    | 8.5        | 8.2    |

**Table 47 - Maximum Conducted (average) Output Power Results**

Modulation: 8-DPSK (HDR8)

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |        |            |        |
|----------------------|--------------------------------------|--------|------------|--------|
|                      | Average Power                        |        | Peak Power |        |
|                      | Core 0                               | Core 2 | Core 0     | Core 2 |
| 2404                 | 5.7                                  | 5.7    | 9.2        | 9.1    |
| 2441                 | 5.8                                  | 6.0    | 9.3        | 9.4    |
| 2478                 | 5.6                                  | 5.5    | 9.0        | 9.0    |

**Table 48 - Maximum Conducted (average) Output Power Results**

Modulation: GFSK (LE 1M)

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |        |            |        |
|----------------------|--------------------------------------|--------|------------|--------|
|                      | Average Power                        |        | Peak Power |        |
|                      | Core 0                               | Core 2 | Core 0     | Core 2 |
| 2402                 | 12.1                                 | 11.9   | 12.9       | 12.6   |
| 2440                 | 12.1                                 | 11.5   | 12.9       | 12.4   |
| 2480                 | 12.4                                 | 11.7   | 13.1       | 12.6   |

**Table 49 - Maximum Conducted (average) Output Power Results**

Modulation: GFSK (LE 2M)

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |        |            |        |
|----------------------|--------------------------------------|--------|------------|--------|
|                      | Average Power                        |        | Peak Power |        |
|                      | Core 0                               | Core 2 | Core 0     | Core 2 |
| 2402                 | 11.9                                 | 11.9   | 12.9       | 12.8   |
| 2440                 | 12.4                                 | 11.6   | 13.3       | 12.6   |
| 2480                 | 12.1                                 | 11.9   | 12.9       | 12.8   |

**Table 50 - Maximum Conducted (average) Output Power Results**



Antenna Port Configuration: Beamforming

Modulation: 8-DPSK (HDR4)

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |        |          |            |        |          |
|----------------------|--------------------------------------|--------|----------|------------|--------|----------|
|                      | Average Power                        |        |          | Peak Power |        |          |
|                      | Core 0                               | Core 1 | $\Sigma$ | Core 0     | Core 1 | $\Sigma$ |
| 2404                 | 5.5                                  | 5.6    | 8.6      | 8.3        | 8.4    | 11.4     |
| 2441                 | 5.8                                  | 5.7    | 8.8      | 8.6        | 8.5    | 11.5     |
| 2478                 | 5.7                                  | 6.0    | 8.9      | 8.5        | 8.8    | 11.6     |

**Table 51 - Maximum Conducted (average) Output Power Results**

Modulation: 8-DPSK (HDR8)

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |        |          |            |        |          |
|----------------------|--------------------------------------|--------|----------|------------|--------|----------|
|                      | Average Power                        |        |          | Peak Power |        |          |
|                      | Core 0                               | Core 1 | $\Sigma$ | Core 0     | Core 1 | $\Sigma$ |
| 2404                 | 5.7                                  | 5.6    | 8.7      | 9.1        | 9.0    | 12.1     |
| 2441                 | 5.8                                  | 6.0    | 8.9      | 9.2        | 9.4    | 12.3     |
| 2478                 | 5.6                                  | 5.0    | 8.3      | 9.0        | 8.5    | 11.7     |

**Table 52 - Maximum Conducted (average) Output Power Results**

Modulation: GFSK (LE 1M)

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |        |          |            |        |          |
|----------------------|--------------------------------------|--------|----------|------------|--------|----------|
|                      | Average Power                        |        |          | Peak Power |        |          |
|                      | Core 0                               | Core 1 | $\Sigma$ | Core 0     | Core 1 | $\Sigma$ |
| 2402                 | 12.2                                 | 12.5   | 15.4     | 13.1       | 13.3   | 16.2     |
| 2440                 | 12.3                                 | 12.2   | 15.3     | 13.0       | 13.0   | 16.0     |
| 2480                 | 12.4                                 | 12.0   | 15.2     | 13.0       | 12.8   | 15.9     |

**Table 53 - Maximum Conducted (average) Output Power Results**

Modulation: GFSK (LE 2M)

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |        |          |            |        |          |
|----------------------|--------------------------------------|--------|----------|------------|--------|----------|
|                      | Average Power                        |        |          | Peak Power |        |          |
|                      | Core 0                               | Core 1 | $\Sigma$ | Core 0     | Core 1 | $\Sigma$ |
| 2402                 | 12.4                                 | 12.3   | 15.4     | 13.3       | 13.2   | 16.3     |
| 2440                 | 12.4                                 | 12.4   | 15.4     | 13.2       | 13.3   | 16.2     |
| 2480                 | 12.5                                 | 12.2   | 15.4     | 13.2       | 13.1   | 16.2     |

**Table 54 - Maximum Conducted (average) Output Power Results**



ePA

Antenna Port Configuration: SISO

Modulation: 8-DPSK (HDR4)

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |            |
|----------------------|--------------------------------------|------------|
|                      | Average Power                        | Peak Power |
|                      | Core 0                               | Core 0     |
| 2404                 | 12.8                                 | 15.5       |
| 2441                 | 12.8                                 | 15.6       |
| 2478                 | 12.8                                 | 15.5       |

**Table 55 - Maximum Conducted (average) Output Power Results**

Modulation: 8-DPSK (HDR8)

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |            |
|----------------------|--------------------------------------|------------|
|                      | Average Power                        | Peak Power |
|                      | Core 0                               | Core 0     |
| 2404                 | 12.6                                 | 16.0       |
| 2441                 | 12.9                                 | 16.3       |
| 2478                 | 13.0                                 | 16.4       |

**Table 56 - Maximum Conducted (average) Output Power Results**

Modulation: GFSK (LE 1M)

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |            |
|----------------------|--------------------------------------|------------|
|                      | Average Power                        | Peak Power |
|                      | Core 0                               | Core 0     |
| 2402                 | 19.9                                 | 21.0       |
| 2440                 | 19.6                                 | 20.8       |
| 2480                 | 19.7                                 | 20.9       |

**Table 57 - Maximum Conducted (average) Output Power Results**

Modulation: GFSK (LE 2M)

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |            |
|----------------------|--------------------------------------|------------|
|                      | Average Power                        | Peak Power |
|                      | Core 0                               | Core 0     |
| 2402                 | 19.7                                 | 20.9       |
| 2440                 | 19.7                                 | 20.8       |
| 2480                 | 19.9                                 | 21.1       |

**Table 58 - Maximum Conducted (average) Output Power Results**



Antenna Port Configuration: Beamforming

Modulation: 8-DPSK (HDR4)

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |        |          |            |        |          |
|----------------------|--------------------------------------|--------|----------|------------|--------|----------|
|                      | Average Power                        |        |          | Peak Power |        |          |
|                      | Core 0                               | Core 1 | $\Sigma$ | Core 0     | Core 1 | $\Sigma$ |
| 2404                 | 12.4                                 | 12.8   | 15.6     | 15.1       | 15.5   | 18.3     |
| 2441                 | 12.5                                 | 12.5   | 15.5     | 15.2       | 15.2   | 18.2     |
| 2478                 | 12.6                                 | 12.3   | 15.5     | 15.3       | 15.0   | 18.2     |

**Table 59 - Maximum Conducted (average) Output Power Results**

Modulation: 8-DPSK (HDR8)

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |        |          |            |        |          |
|----------------------|--------------------------------------|--------|----------|------------|--------|----------|
|                      | Average Power                        |        |          | Peak Power |        |          |
|                      | Core 0                               | Core 1 | $\Sigma$ | Core 0     | Core 1 | $\Sigma$ |
| 2404                 | 12.7                                 | 12.6   | 15.6     | 16.1       | 15.9   | 19.0     |
| 2441                 | 12.5                                 | 12.6   | 15.6     | 15.9       | 15.9   | 18.9     |
| 2478                 | 12.7                                 | 12.8   | 15.8     | 16.1       | 16.2   | 19.1     |

**Table 60 - Maximum Conducted (average) Output Power Results**

Modulation: GFSK (LE 1M)

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |        |          |            |        |          |
|----------------------|--------------------------------------|--------|----------|------------|--------|----------|
|                      | Average Power                        |        |          | Peak Power |        |          |
|                      | Core 0                               | Core 1 | $\Sigma$ | Core 0     | Core 1 | $\Sigma$ |
| 2402                 | 13.6                                 | 13.8   | 16.7     | 14.2       | 14.3   | 17.2     |
| 2440                 | 13.4                                 | 13.5   | 16.5     | 14.0       | 14.1   | 17.0     |
| 2480                 | 13.4                                 | 13.5   | 16.5     | 13.9       | 14.1   | 17.0     |

**Table 61 - Maximum Conducted (average) Output Power Results**

Modulation: GFSK (LE 2M)

| Test Frequency (MHz) | Maximum Conducted Output Power (dBm) |        |          |            |        |          |
|----------------------|--------------------------------------|--------|----------|------------|--------|----------|
|                      | Average Power                        |        |          | Peak Power |        |          |
|                      | Core 0                               | Core 1 | $\Sigma$ | Core 0     | Core 1 | $\Sigma$ |
| 2402                 | 13.6                                 | 13.8   | 16.7     | 14.2       | 14.4   | 17.3     |
| 2440                 | 13.5                                 | 13.6   | 16.6     | 14.1       | 14.2   | 17.2     |
| 2480                 | 13.5                                 | 13.6   | 16.6     | 13.9       | 14.2   | 17.1     |

**Table 62 - Maximum Conducted (average) Output Power Results**



FCC 47 CFR Part 15, Limit Clause 15.247 (b)(3)

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt (30 dBm).

ISED RSS-247, Limit Clause 5.4 (b)

For DTSSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e) of the specification.

## 2.2.7 Test Location and Test Equipment Used

This test was carried out in RF Laboratory 1.

| Instrument                   | Manufacturer | Type No | TE No | Calibration Period (months) | Calibration Due |
|------------------------------|--------------|---------|-------|-----------------------------|-----------------|
| Multimeter                   | Iso-tech     | IDM101  | 2424  | 12                          | 12-Dec-2020     |
| Hygrometer                   | Rotronic     | A1      | 2760  | 12                          | 02-Jan-2021     |
| USB Power Sensor             | Boonton      | RTP5006 | 5184  | 12                          | 09-Jan-2021     |
| USB Power Sensor             | Boonton      | RTP5006 | 5187  | 12                          | 09-Jan-2021     |
| AC Programmable Power Supply | iTech        | IT7324  | 5225  | -                           | O/P Mon         |
| USB Power Sensor             | Boonton      | RTP5006 | 5278  | 12                          | 27-Apr-2021     |
| Signal Commissioning Unit    | TUV SUD      | SCU001  | 5546  | 12                          | 15-Apr-2021     |

**Table 63**

TU - Traceability Unscheduled

O/P Mon – Output Monitored using calibrated equipment



## **2.3 Authorised Band Edges**

### **2.3.1 Specification Reference**

FCC 47 CFR Part 15C, Clause 15.247 (d)  
ISED RSS-247, Clause 5.5

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

A2348, S/N: C07D100W02H7 - Modification State 0

### **2.3.3 Date of Test**

18-July-2020 to 24-August-2020

### **2.3.4 Test Method**

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

### **2.3.5 Environmental Conditions**

|                     |             |
|---------------------|-------------|
| Ambient Temperature | 20.7-27.2°C |
| Relative Humidity   | 48.1-61.1%  |

## 2.3.6 Test Results

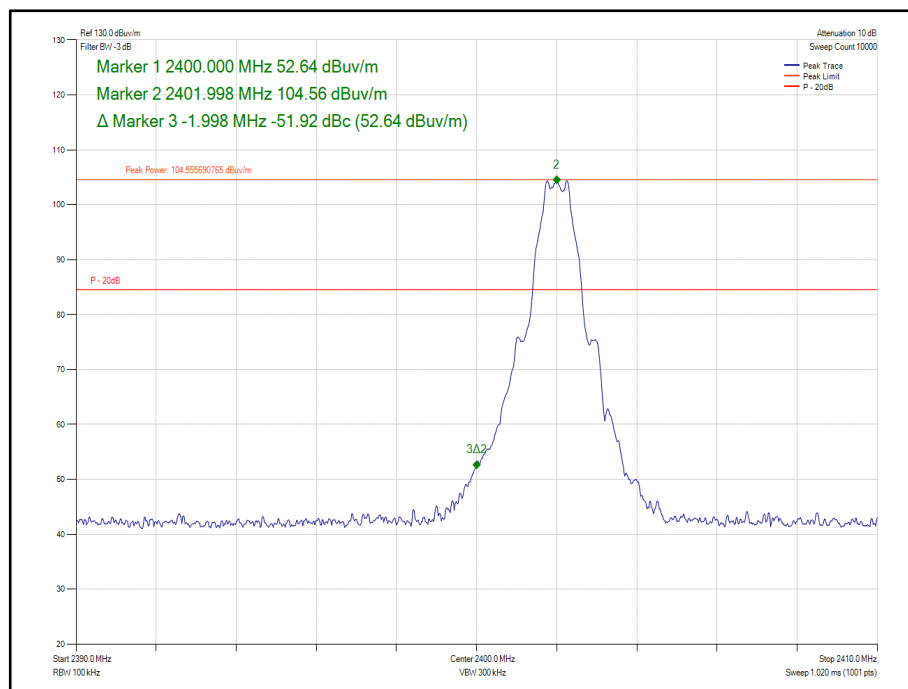
### 2.4 GHz Bluetooth Low Energy (DTS)

#### LE1M

#### iPA

| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | DH1         | 0    | 2402               | 2400.0                    | -51.92      |

**Table 64 - Authorised Band Edge Results**



**Figure 85 - Core 0 - GFSK/DH1- 2402 MHz – Band Edge Frequency 2400.0 MHz**



| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | DH1         | 1    | 2402               | 2400.0                    | -52.81      |

Table 65 - Authorised Band Edge Results

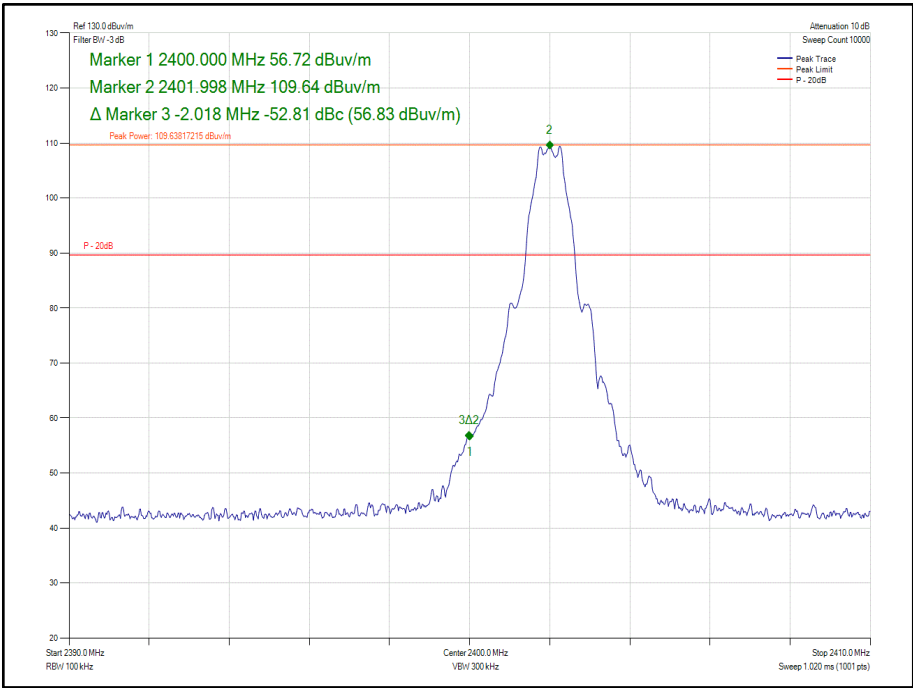


Figure 86 - Core 1 - GFSK/DH1- 2402 MHz – Band Edge Frequency 2400.0 MHz



| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | DH1         | 2    | 2402               | 2400.0                    | -54.05      |

Table 66 - Authorised Band Edge Results

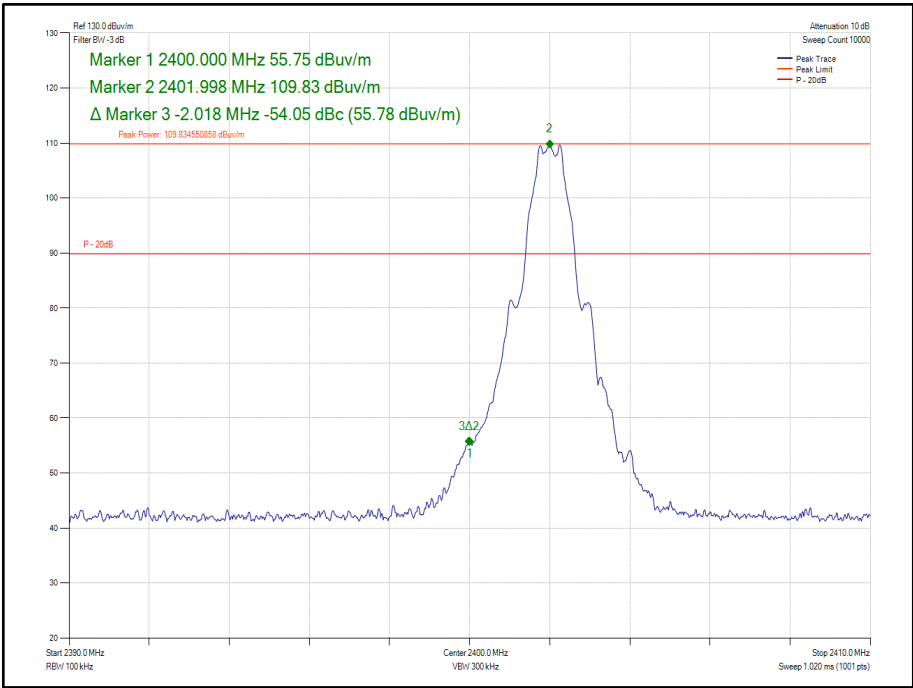


Figure 87 - Core 2 - GFSK/DH1- 2402 MHz – Band Edge Frequency 2400.0 MHz



| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | DH1         | 0-1  | 2402               | 2400.0                    | -51.78      |

Table 67 - Authorised Band Edge Results

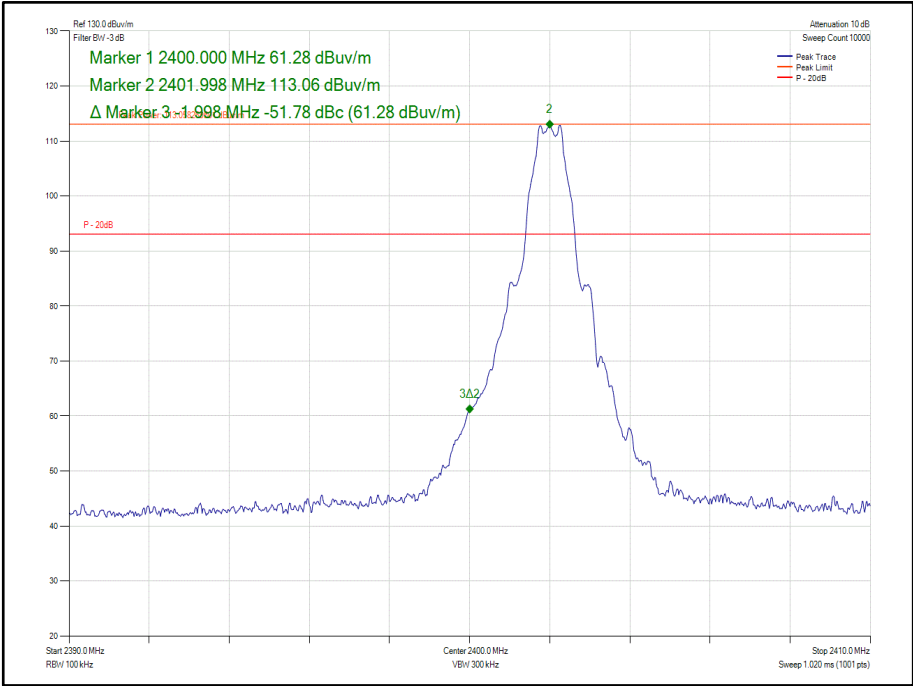


Figure 88 - Core 0-1 - GFSK/DH1- 2402 MHz – Band Edge Frequency 2400.0 MHz



ePA

| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | DH1         | 0    | 2402               | 2400.0                    | -65.48      |

Table 68 - Authorised Band Edge Results

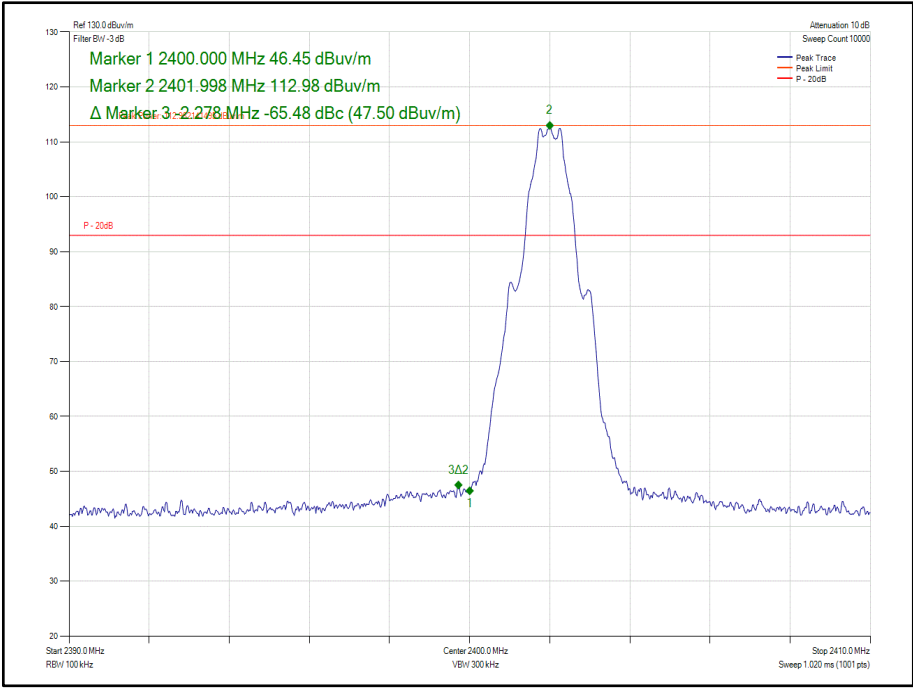


Figure 89 - Core 0 - GFSK/DH1- 2402 MHz – Band Edge Frequency 2400.0 MHz



| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | DH1         | 1    | 2402               | 2400.0                    | -65.29      |

Table 69 - Authorised Band Edge Results

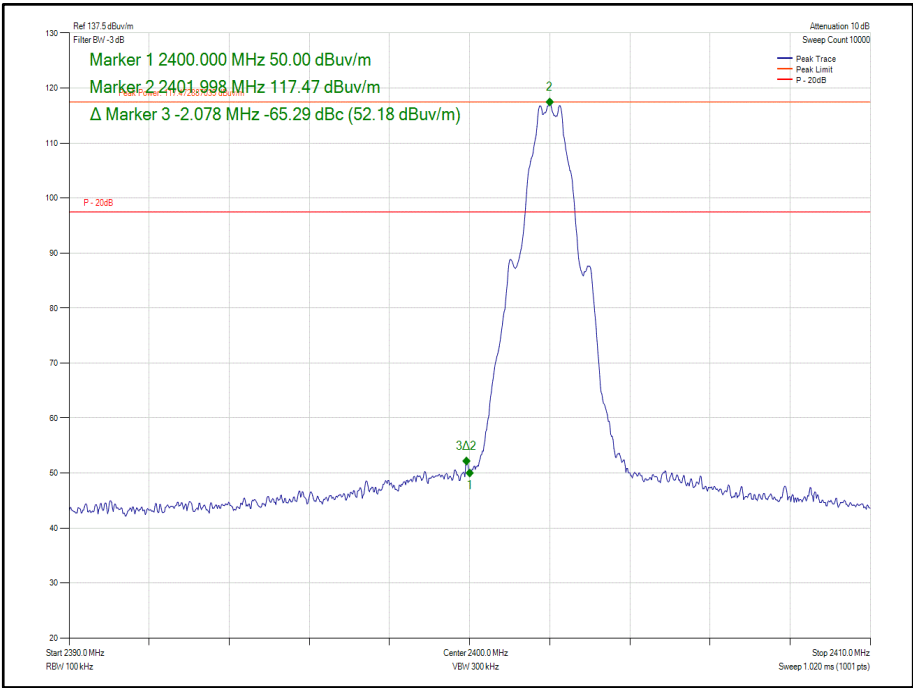


Figure 90 - Core 1 - GFSK/DH1- 2402 MHz – Band Edge Frequency 2400.0 MHz



| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | DH1         | 0-1  | 2402               | 2400.0                    | -67.93      |

Table 70 - Authorised Band Edge Results

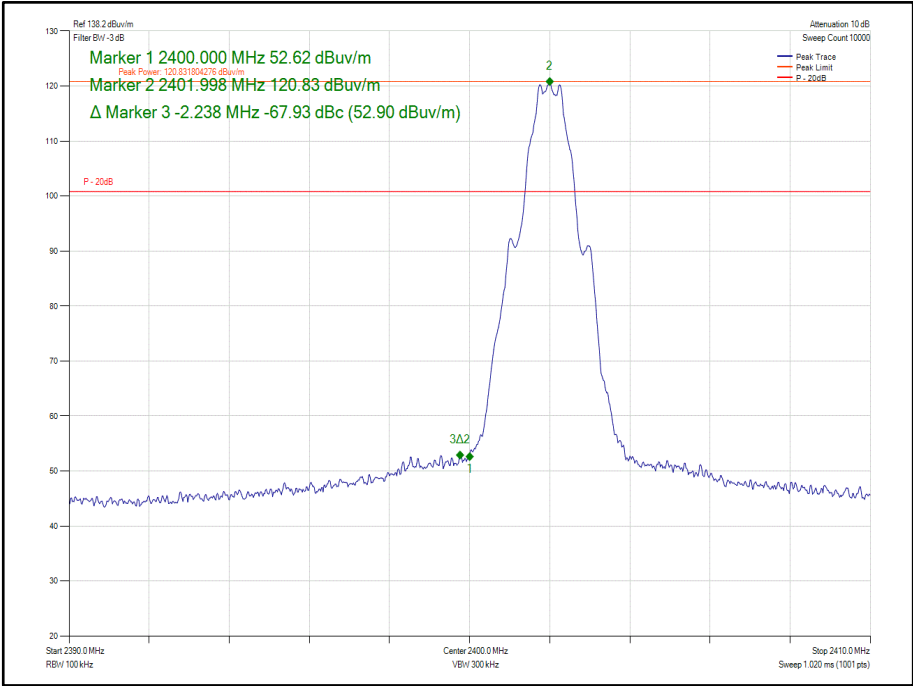


Figure 91 - Core 0-1 - GFSK/DH1- 2402 MHz – Band Edge Frequency 2400.0 MHz



LE2M

iPA

| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | DH1         | 0    | 2402               | 2400.0                    | -30.79      |

Table 71 - Authorised Band Edge Results

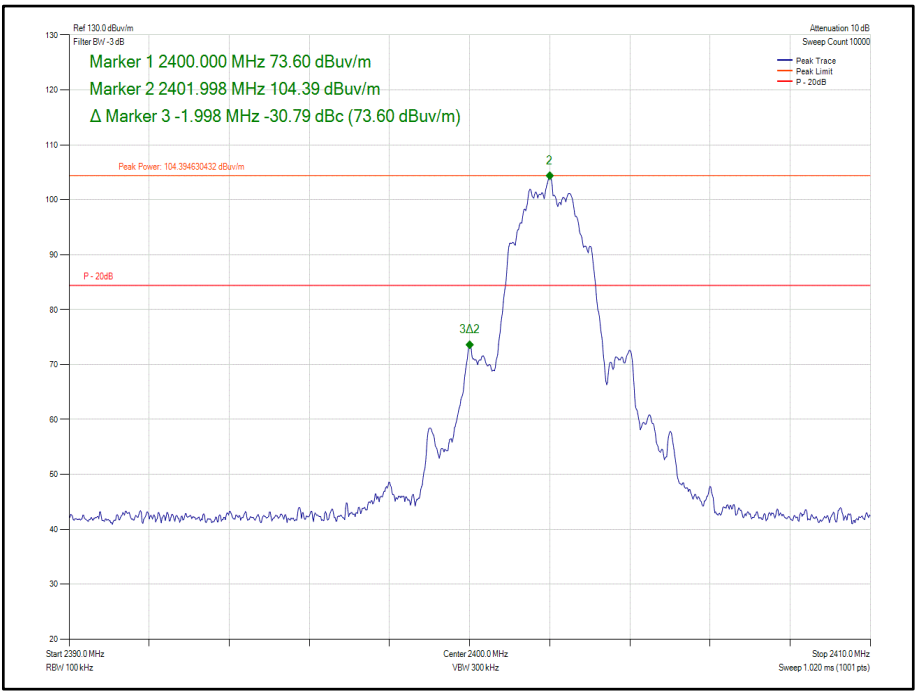


Figure 92 - Core 0 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2400.0 MHz



| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | DH1         | 1    | 2402               | 2400.0                    | -31.04      |

Table 72 - Authorised Band Edge Results

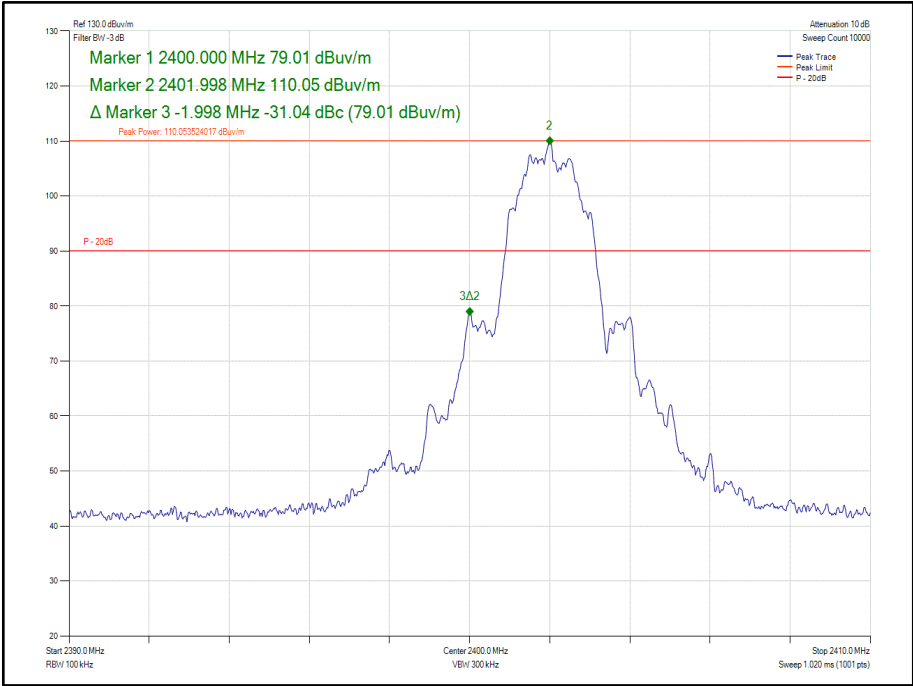


Figure 93 - Core 1 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2400.0 MHz



| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | DH1         | 2    | 2402               | 2400.0                    | -30.96      |

Table 73 - Authorised Band Edge Results

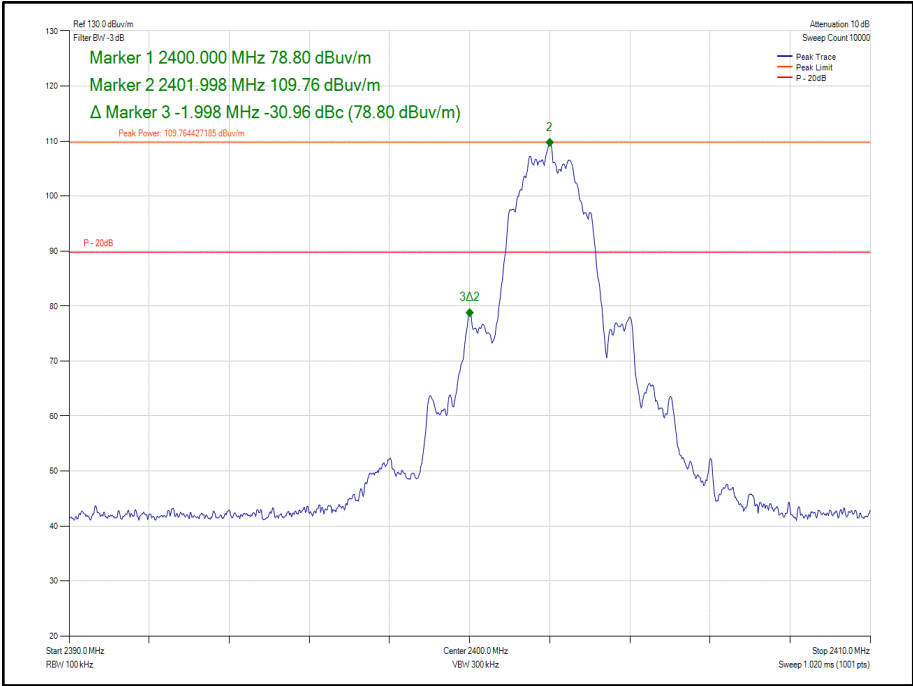


Figure 94 - Core 2 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2400.0 MHz

### Table 74 - Authorised Band Edge Results

**Figure 95 - Core 0-1 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2400.0 MHz**



HDR4

| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | 4DH5        | 0    | 2402               | 2400.0                    | -52.54      |

Table 75 - Authorised Band Edge Results

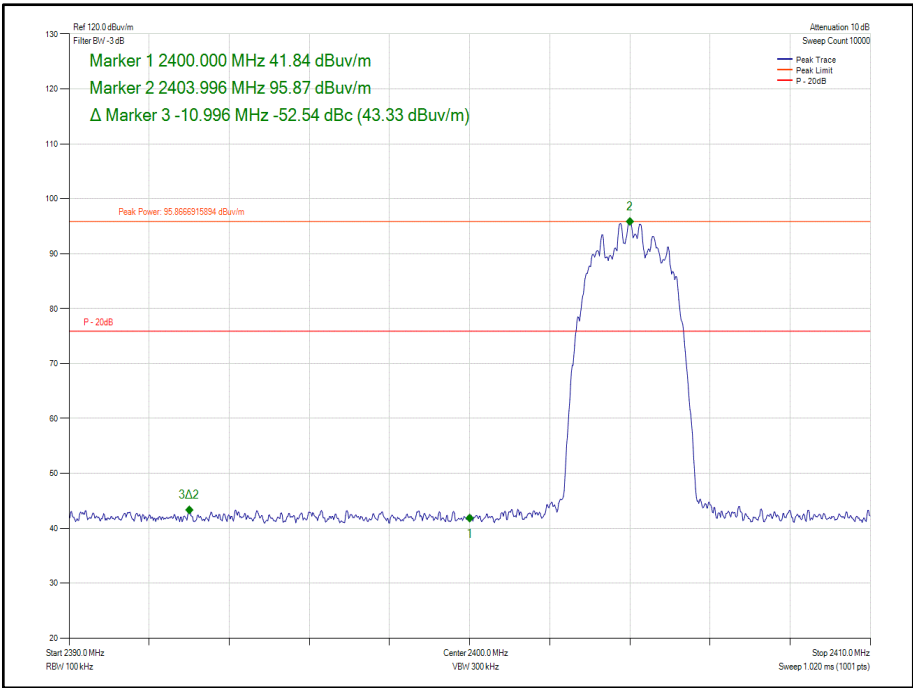


Figure 96 - Core 0 - GFSK/4DH5- 2402 MHz – Band Edge Frequency 2400.0 MHz



| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | 4DH5        | 1    | 2402               | 2400.0                    | -57.25      |

Table 76 - Authorised Band Edge Results

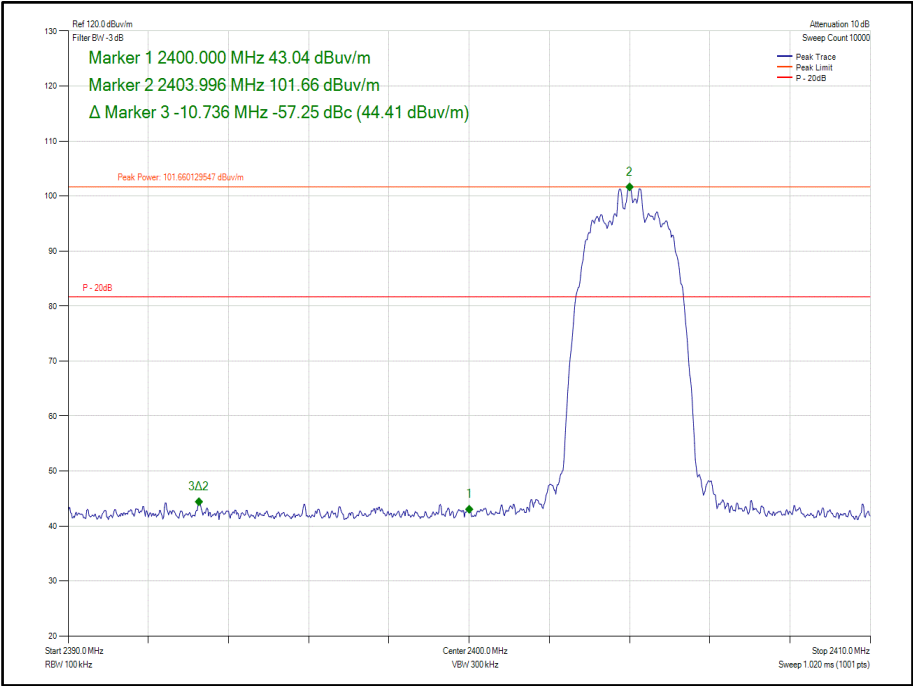


Figure 97 - Core 1 - GFSK/4DH5- 2402 MHz – Band Edge Frequency 2400.0 MHz



| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | 4DH5        | 2    | 2402               | 2400.0                    | -56.87      |

Table 77 - Authorised Band Edge Results

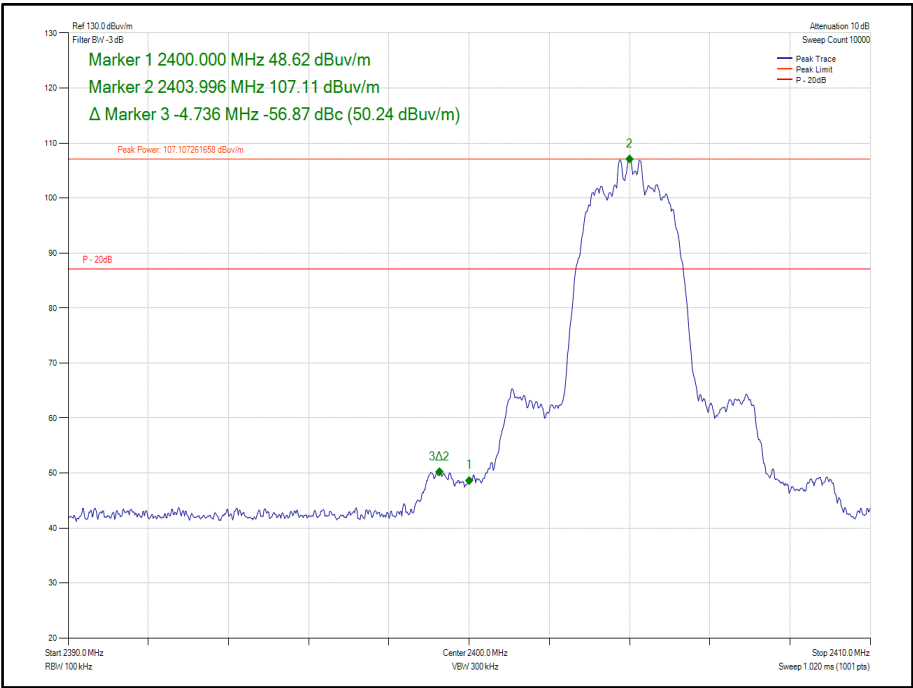


Figure 98 - Core 2 - GFSK/4DH5- 2402 MHz – Band Edge Frequency 2400.0 MHz



| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | 4DH5        | 0-1  | 2402               | 2400.0                    | -62.56      |

Table 78 - Authorised Band Edge Results

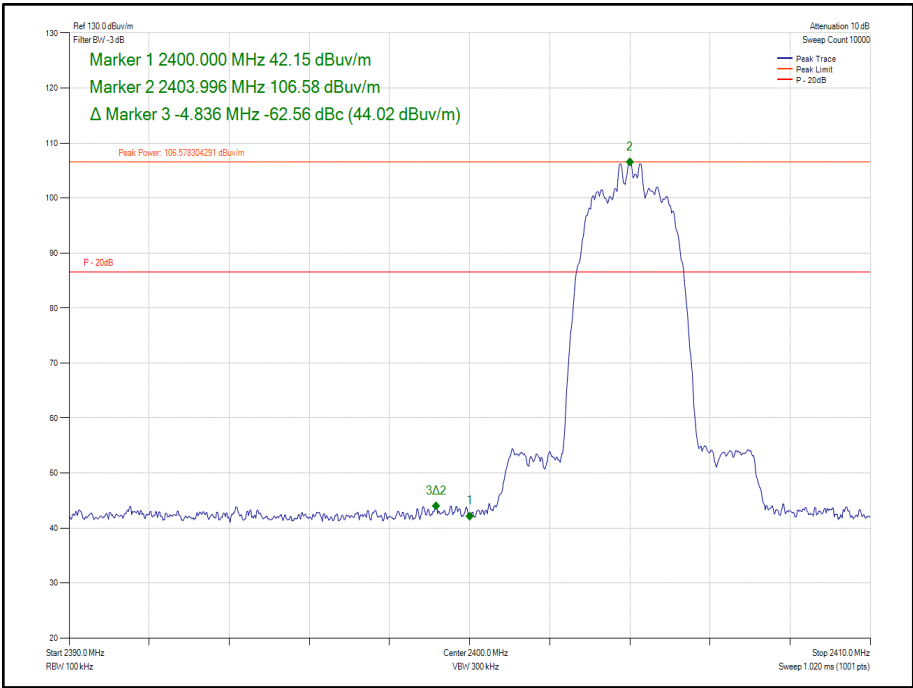


Figure 99 - Core 0-1 - GFSK/4DH5- 2402 MHz – Band Edge Frequency 2400.0 MHz



HDR8

| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | 8DH5        | 0    | 2402               | 2400.0                    | -53.87      |

Table 79 - Authorised Band Edge Results

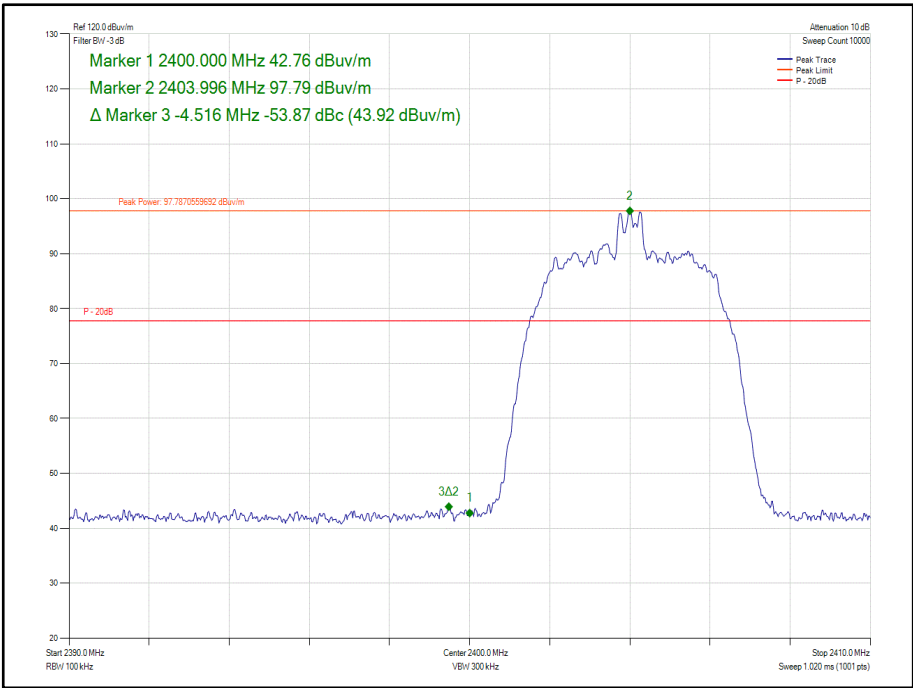


Figure 100 - Core 0 - GFSK/8DH5 - 2402 MHz - Band Edge Frequency 2400.0 MHz



| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | 8DH5        | 1    | 2402               | 2400.0                    | -58.34      |

Table 80 - Authorised Band Edge Results

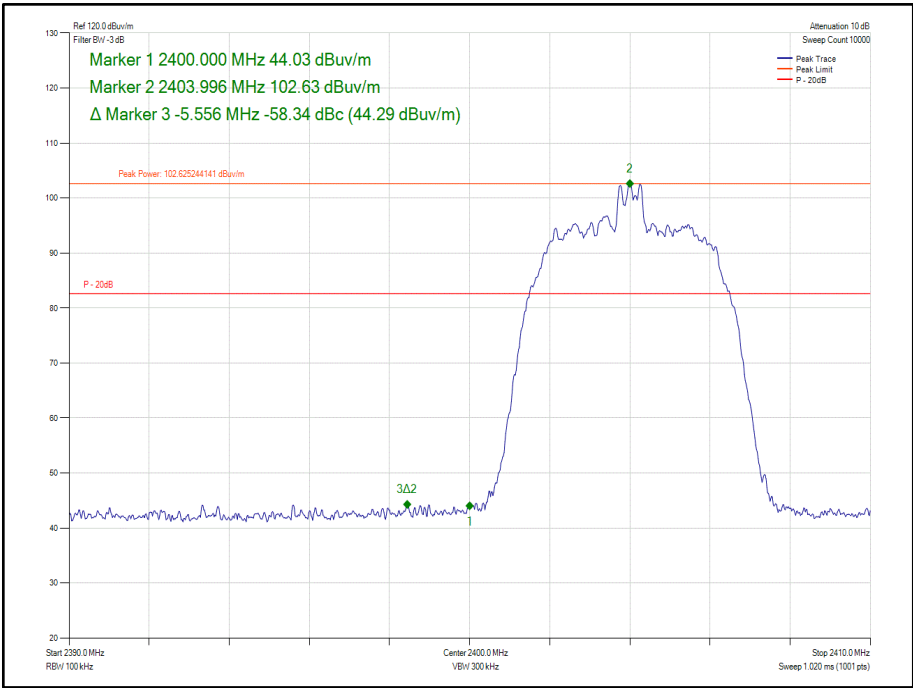


Figure 101 - Core 1 - GFSK/8DH5 - 2402 MHz - Band Edge Frequency 2400.0 MHz



| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | 8DH5        | 2    | 2402               | 2400.0                    | -45.39      |

Table 81 - Authorised Band Edge Results

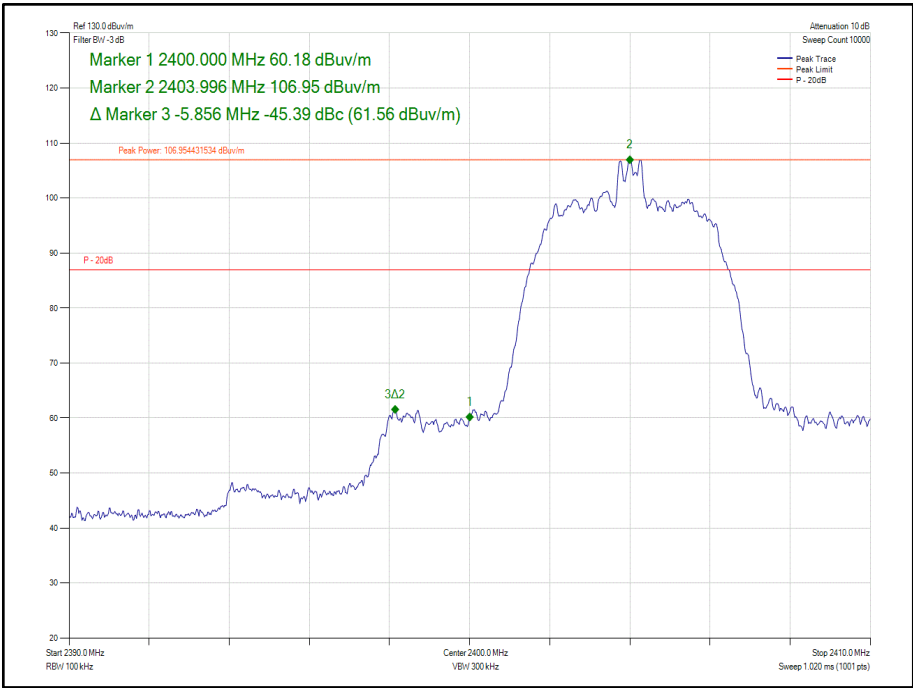


Figure 102 - Core 2 - GFSK/8DH5 - 2402 MHz - Band Edge Frequency 2400.0 MHz



| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | 8DH5        | 0-1  | 2402               | 2400.0                    | -56.18      |

Table 82 - Authorised Band Edge Results

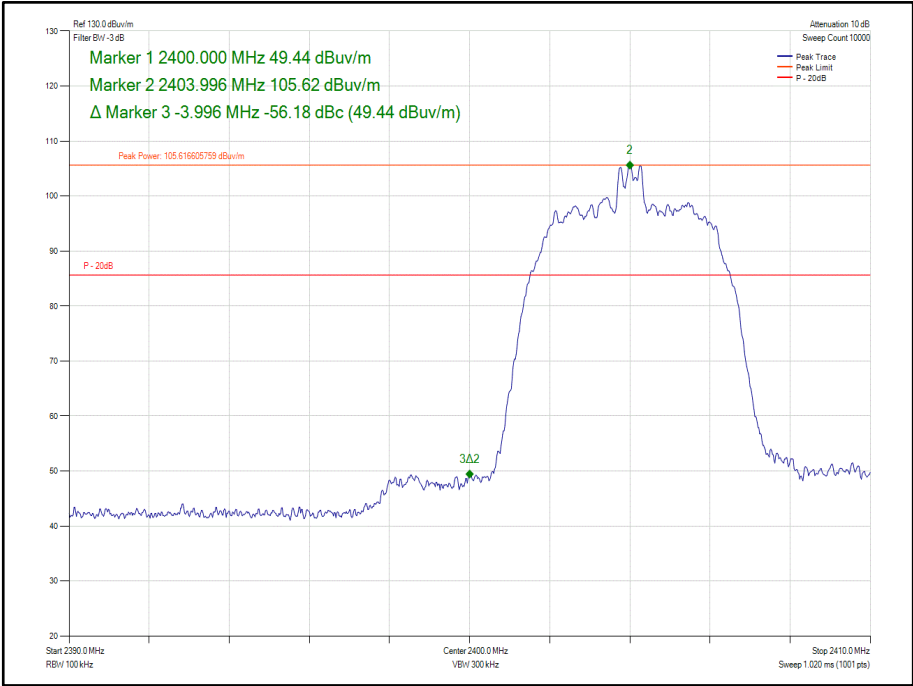
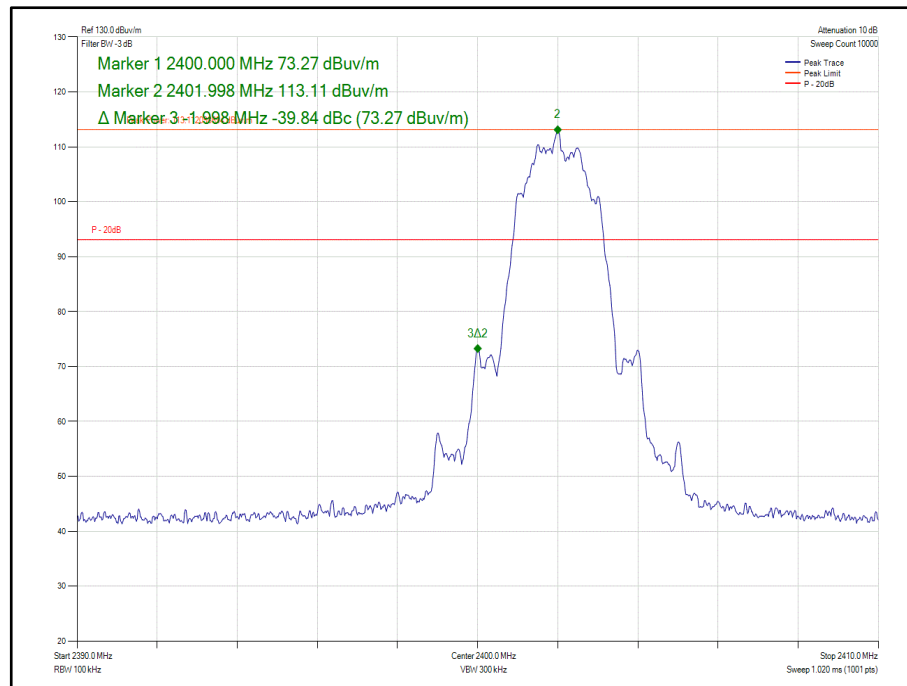


Figure 103 - Core 0-1 - GFSK/8DH5 - 2402 MHz - Band Edge Frequency 2400.0 MHz

| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | DH1         | 0    | 2402               | 2400.0                    | -39.84      |

### Table 83 - Authorised Band Edge Results



**Figure 104 - Core 0 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2400.0 MHz**



| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | DH1         | 1    | 2402               | 2400.0                    | -43.51      |

Table 84 - Authorised Band Edge Results

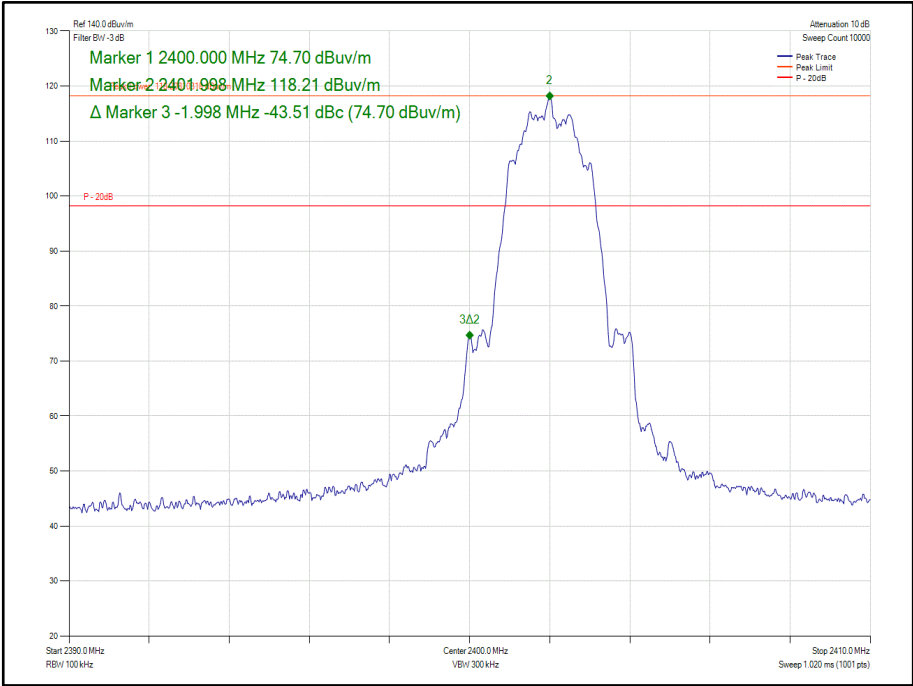


Figure 105 - Core 1 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2400.0 MHz



| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | DH1         | 0-1  | 2402               | 2400.0                    | -41.50      |

Table 85 - Authorised Band Edge Results

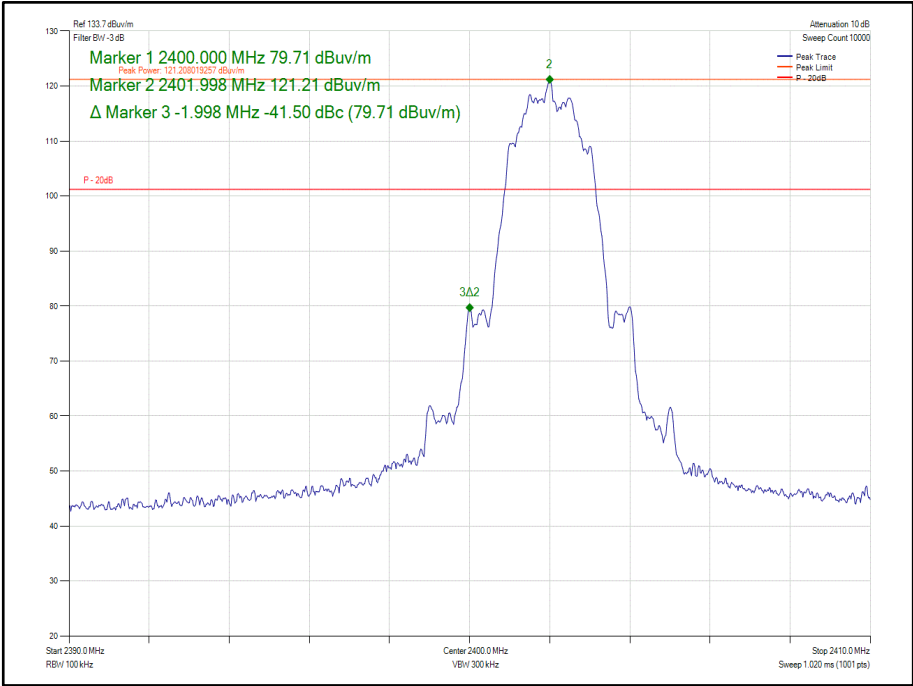


Figure 106 - Core 0-1 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2400.0 MHz



HDR4

| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | 4DH5        | 0    | 2402               | 2400.0                    | -56.65      |

Table 86 - Authorised Band Edge Results

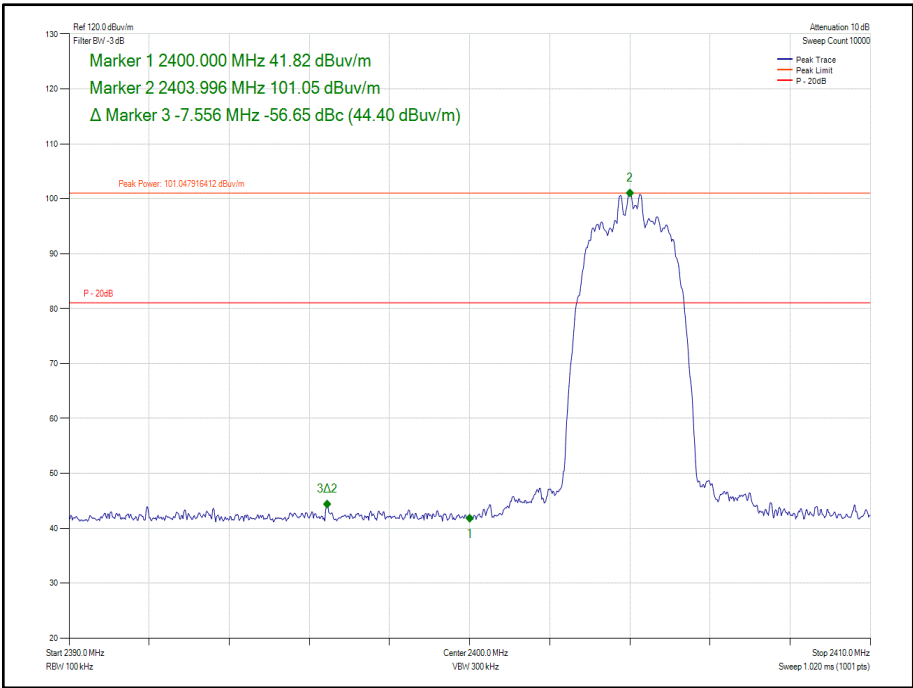


Figure 107 -Core 0 - GFSK/4DH5- 2402 MHz – Band Edge Frequency 2400.0 MHz



| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | 4DH5        | 1    | 2402               | 2400.0                    | -64.42      |

Table 87 - Authorised Band Edge Results

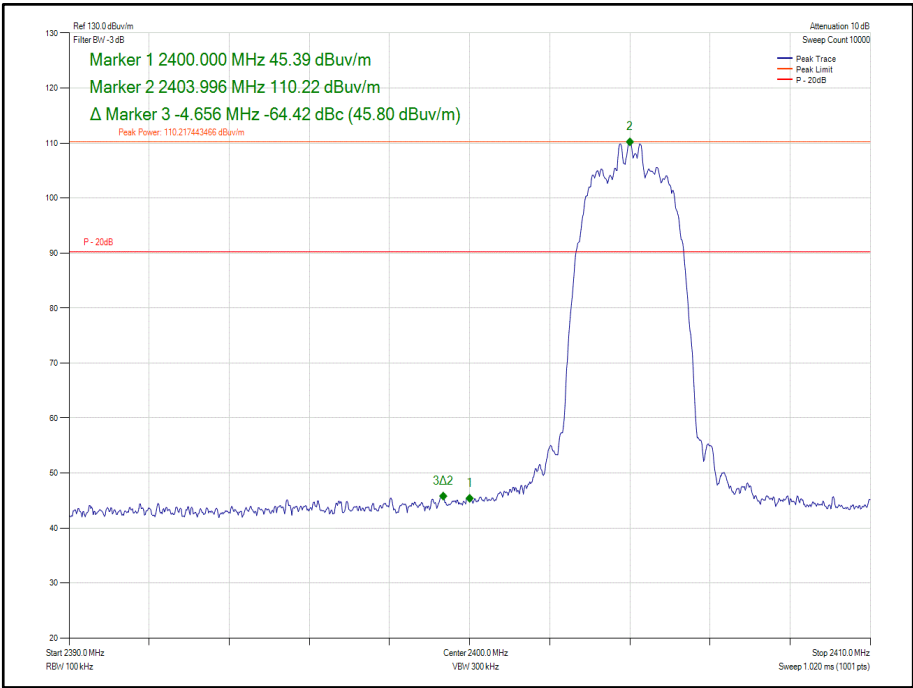


Figure 108 - Core 1 - GFSK/4DH5- 2402 MHz – Band Edge Frequency 2400.0 MHz



| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | 4DH5        | 0-1  | 2402               | 2400.0                    | -66.67      |

Table 88 - Authorised Band Edge Results

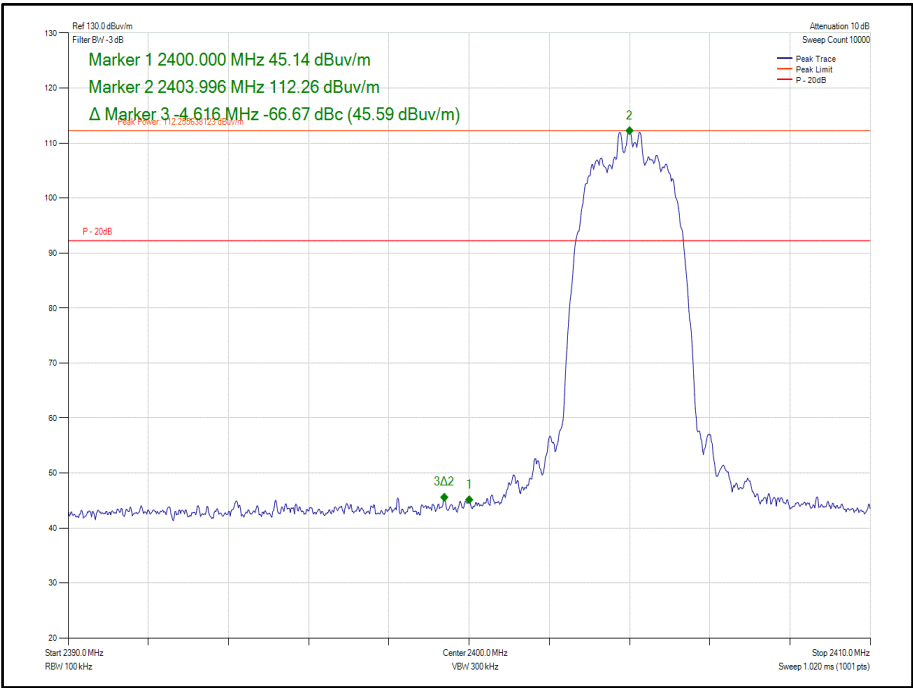


Figure 109 - Core 0-1 - GFSK/4DH5- 2402 MHz – Band Edge Frequency 2400.0 MHz



HDR8

| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | 8DH5        | 0    | 2402               | 2400.0                    | -55.34      |

Table 89 - Authorised Band Edge Results

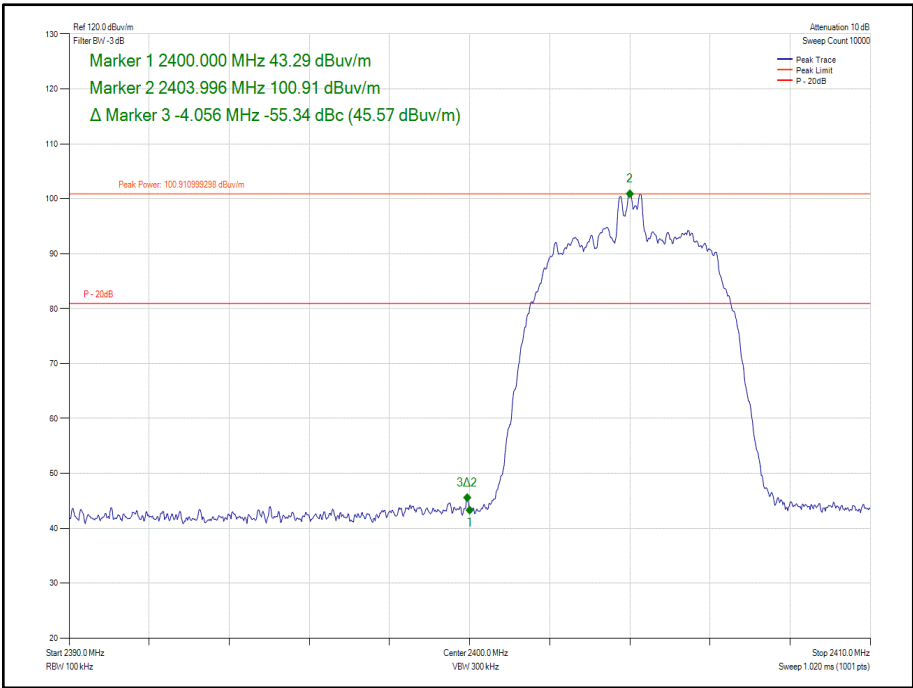


Figure 110 - Core 0 - GFSK/8DH5 - 2402 MHz - Band Edge Frequency 2400.0 MHz



| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | 8DH5        | 1    | 2402               | 2400.0                    | -62.00      |

Table 90 - Authorised Band Edge Results

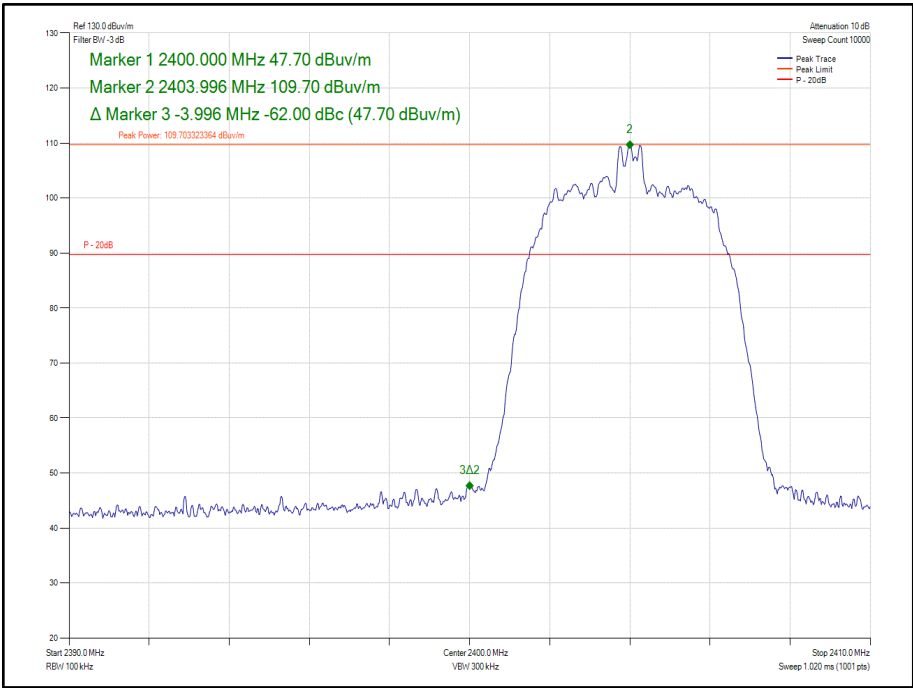
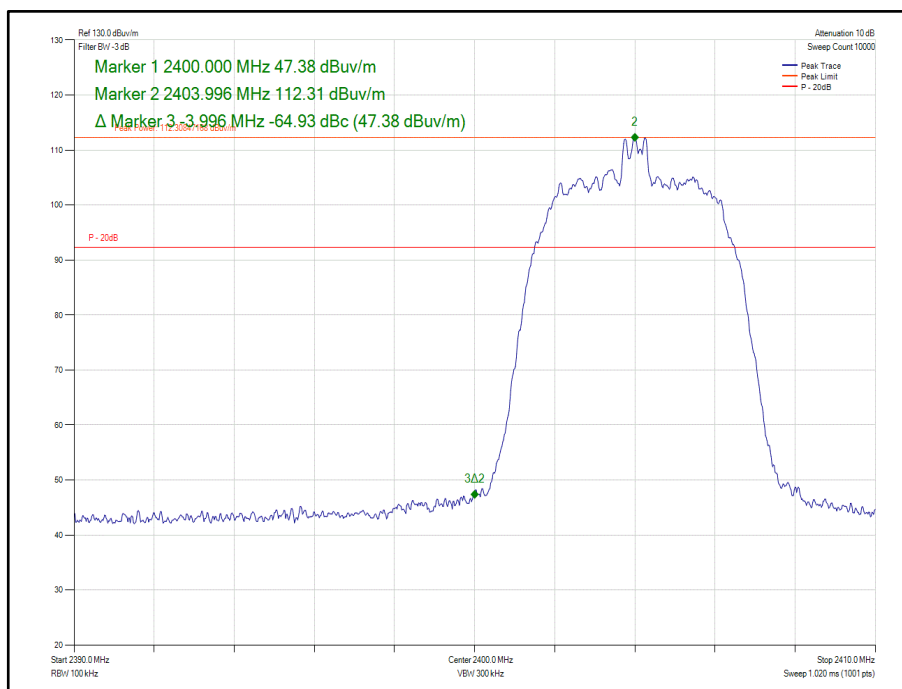


Figure 111 - Core 1 - GFSK/8DH5 - 2402 MHz - Band Edge Frequency 2400.0 MHz

| Modulation | Packet Type | Core | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Level (dBc) |
|------------|-------------|------|--------------------|---------------------------|-------------|
| GFSK       | 8DH5        | 0-1  | 2402               | 2400.0                    | -64.93      |

**Table 91 - Authorised Band Edge Results**



**Figure 112 - Core 0-1 - GFSK/8DH5 - 2402 MHz - Band Edge Frequency 2400.0 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 5.5

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.



### 2.3.7 Test Location and Test Equipment Used

This test was carried out in EMC Chamber 5 and RF Chamber 11.

| Instrument                    | Manufacturer    | Type No              | TE No | Calibration Period (months) | Calibration Due |
|-------------------------------|-----------------|----------------------|-------|-----------------------------|-----------------|
| Screened Room (5)             | Rainford        | Rainford             | 1545  | 36                          | 23-Jan-2021     |
| Turntable Controller          | Inn-Co GmbH     | CO 1000              | 1606  | -                           | TU              |
| Multimeter                    | Iso-tech        | IDM101               | 2419  | 12                          | 28-Nov-2021     |
| Mast Controller               | Maturo GmbH     | NCD                  | 4810  | -                           | TU              |
| Tilt Antenna Mast             | Maturo GmbH     | TAM 4.0-P            | 4811  | -                           | TU              |
| Horn Antenna (1-10GHz)        | Schwarzbeck     | BBHA 9120 B          | 4848  | 12                          | 10-Mar-2021     |
| EMI Test Receiver             | Rohde & Schwarz | ESW44                | 5084  | 12                          | 28-Nov-2020     |
| Cable (18 GHz)                | Rosenberger     | LU7-071-1000         | 5102  | 12                          | 06-Oct-2020     |
| Cable (18 GHz)                | Rosenberger     | LU7-071-1000         | 5103  | 12                          | 06-Oct-2020     |
| Cable (18 GHz)                | Rosenberger     | LU7-071-1000         | 5104  | 12                          | 09-Dec-2020     |
| EmX Emissions Software        | TUV SUD         | EmX                  | 5125  | -                           | Software        |
| Screened Room (11)            | Rainford        | Rainford             | 5136  | 36                          | 01-Nov-2021     |
| Mast                          | Maturo          | TAM 4.0-P            | 5158  | -                           | TU              |
| Mast and Turntable Controller | Maturo          | Maturo NCD           | 5159  | -                           | TU              |
| Turntable                     | Maturo          | TT 15WF              | 5160  | -                           | TU              |
| Horn Antenna (1-10GHz)        | Schwarzbeck     | BBHA 9120 B          | 5215  | 12                          | 10-Mar-2021     |
| Thermo-Hygro-Barometer        | PCE Instruments | PCE-THB-40           | 5470  | 12                          | 16-Mar-2021     |
| Thermo-Hygro-Barometer        | PCE Instruments | PCE-THB-40           | 5475  | 12                          | 17-Mar-2021     |
| 2m SMA Cable                  | Junkosha        | MWX221-02000AMSAMS/A | 5518  | 12                          | 01-Apr-2021     |
| 8m N Type Cable               | Junkosha        | MWX221-08000NMSNMS/B | 5522  | 12                          | 24-Mar-2021     |
| EMI Test Receiver             | Rohde & Schwarz | ESW44                | 5527  | 12                          | 06-Feb-2021     |

**Table 92**

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



## **2.4 Restricted Band Edges**

### **2.4.1 Specification Reference**

FCC 47 CFR Part 15C, Clause 15.205  
ISED RSS-GEN, Clause 8.10

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

A2348, S/N: C07D100W02H7 - Modification State 0

### **2.4.3 Date of Test**

18-August-2020 to 24-August-2020

### **2.4.4 Test Method**

This test was performed in accordance with ANSI C63.10, clause 6.10.5 and 11.12.1.

Plots for average measurements were taken in accordance with ANSI C63.10, clause 11.12.2.5.2.

### **2.4.5 Environmental Conditions**

|                     |             |
|---------------------|-------------|
| Ambient Temperature | 20.7-27.2°C |
| Relative Humidity   | 48.1-61.1%  |

## 2.4.6 Test Results

### 2.4 GHz Bluetooth Low Energy (DTS)

#### LE1M

#### iPA

| Modulation | Tx Frequency (MHz) | Core | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|------------|--------------------|------|---------------------------|---------------------|------------------------|
| GFSK/DH1   | 2402               | 0    | 2390.0                    | 54.30               | 42.00                  |
| GFSK/DH1   | 2480               | 0    | 2483.5                    | 53.20               | 41.17                  |

Table 93 - Restricted Band Edge Results

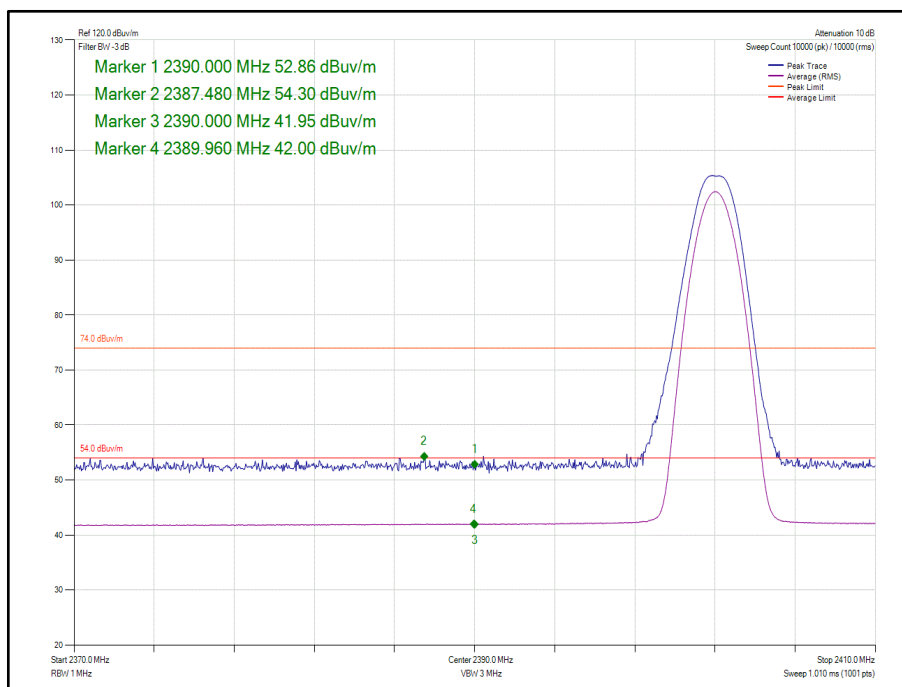


Figure 113 – Core 0 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2390.0 MHz

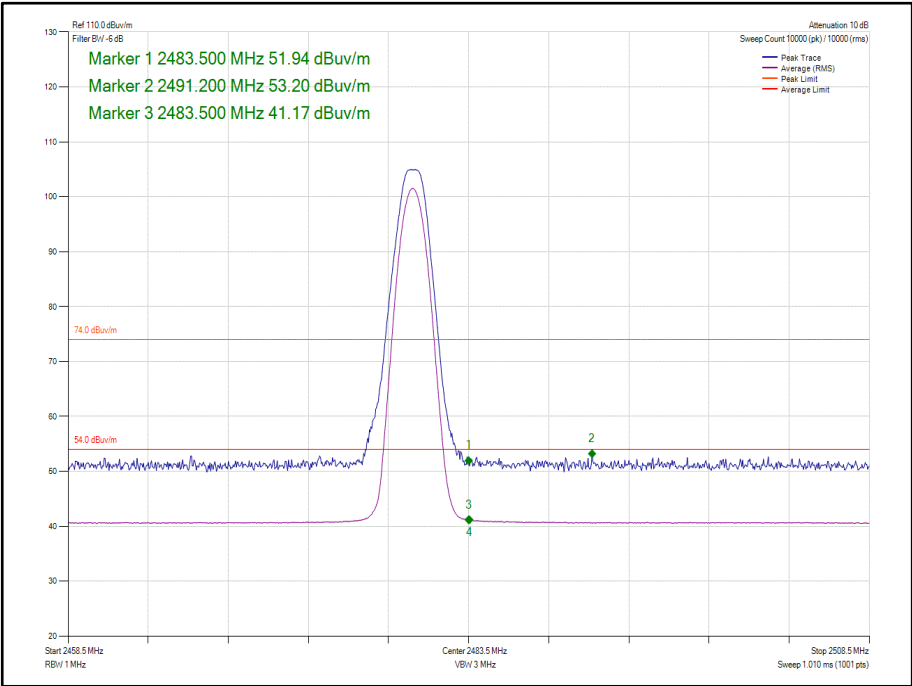
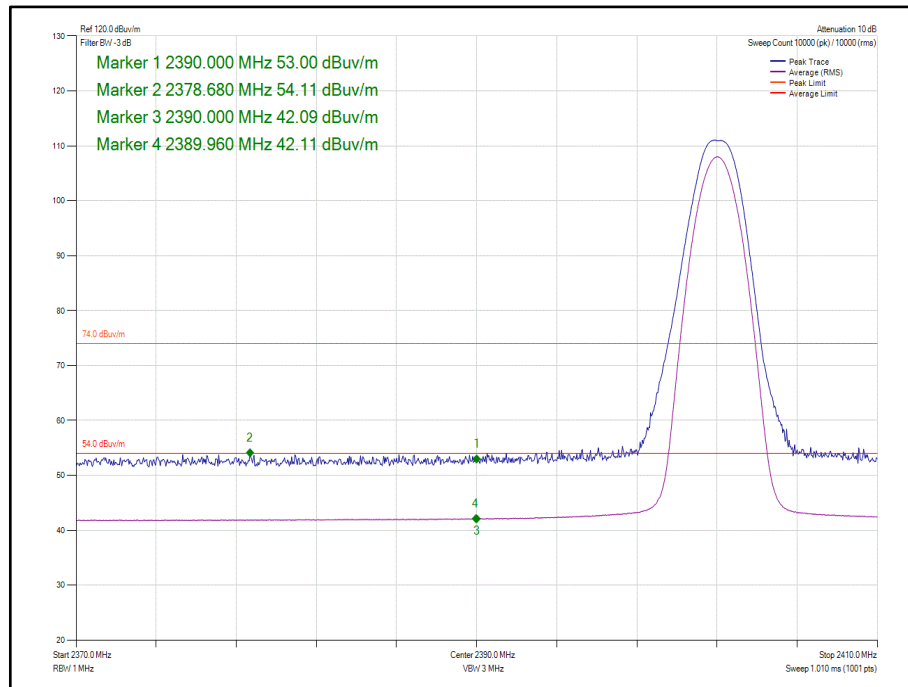


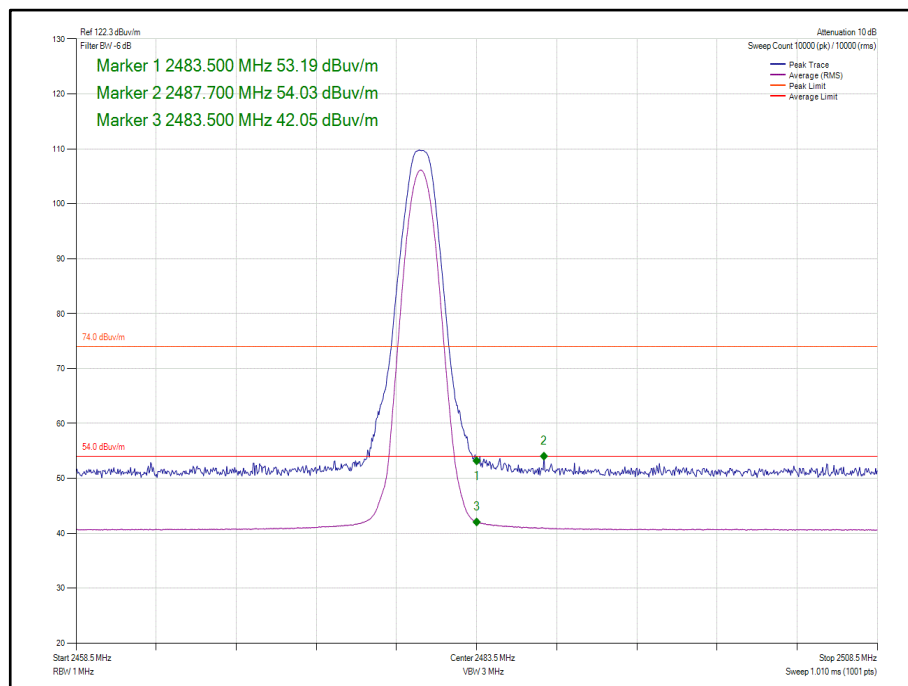
Figure 114 – Core 0 - GFSK/DH1 - 2480 MHz - Band Edge Frequency 2483.5 MHz

| Modulation | Tx Frequency (MHz) | Core | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|------------|--------------------|------|---------------------------|---------------------|------------------------|
| GFSK/DH1   | 2402               | 1    | 2390.0                    | 54.11               | 42.11                  |
| GFSK/DH1   | 2480               | 1    | 2483.5                    | 54.03               | 42.05                  |

**Table 94 - Restricted Band Edge Results**



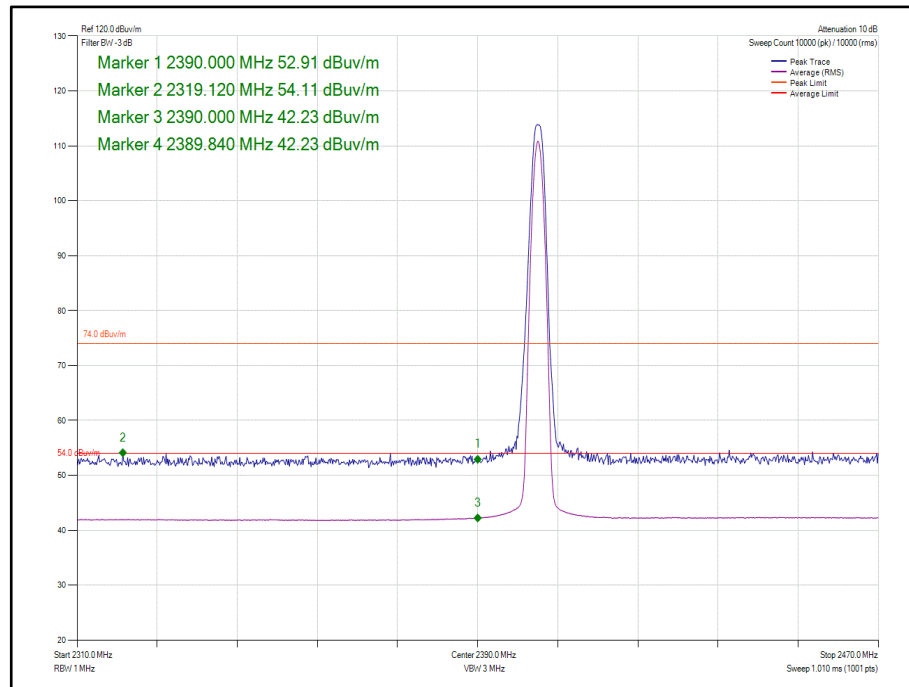
**Figure 115 – Core 1 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2390.0 MHz**



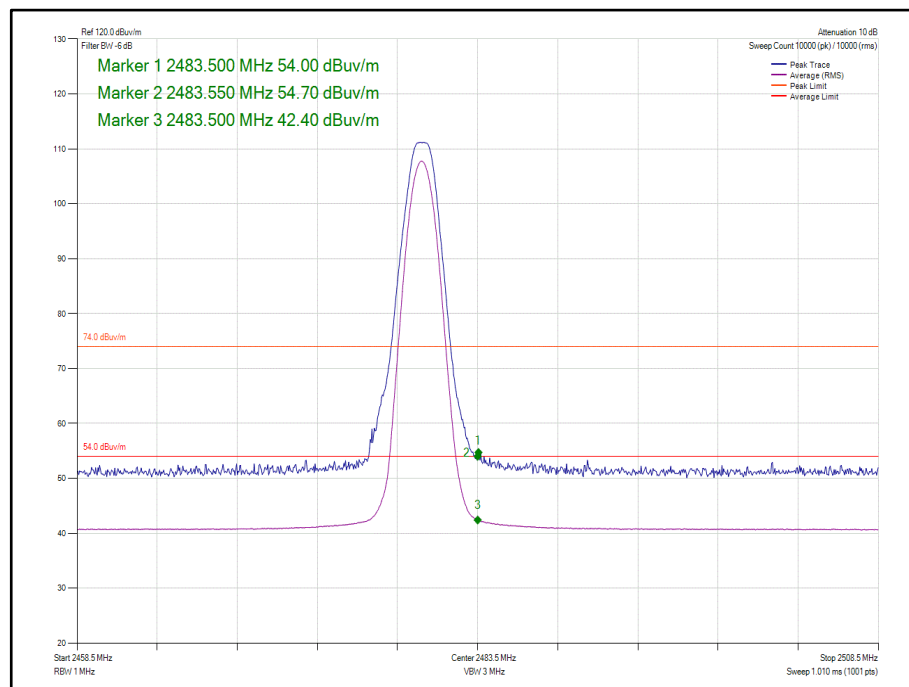
**Figure 116 – Core 1 - GFSK/DH1 - 2480 MHz - Band Edge Frequency 2483.5 MHz**

| Modulation | Tx Frequency (MHz) | Core | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|------------|--------------------|------|---------------------------|---------------------|------------------------|
| GFSK/DH1   | 2402               | 0-1  | 2390.0                    | 54.11               | 42.23                  |
| GFSK/DH1   | 2480               | 0-1  | 2483.5                    | 54.70               | 42.40                  |

**Table 95 - Restricted Band Edge Results**



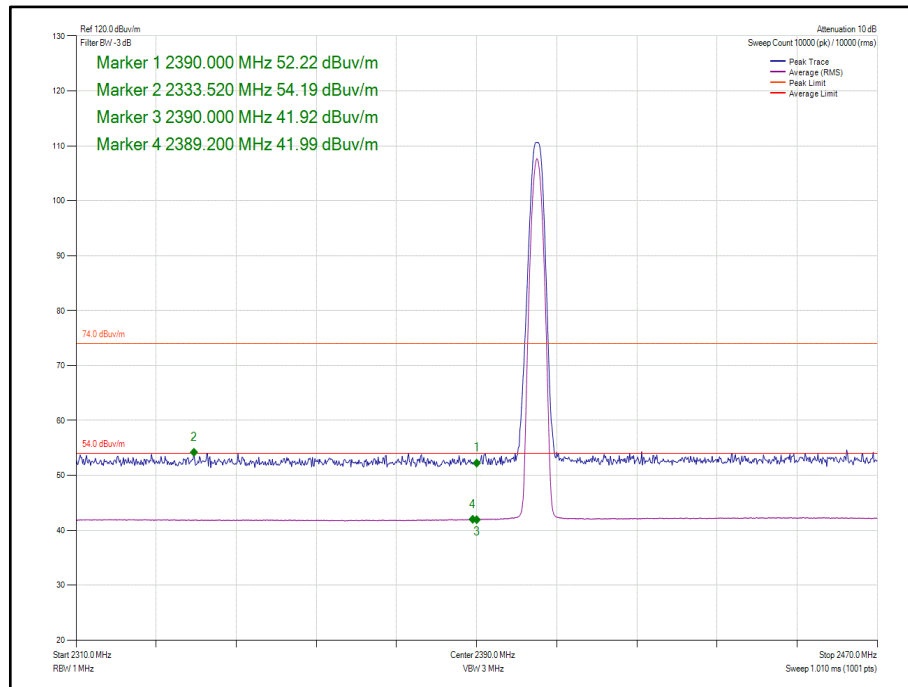
**Figure 117 – Core 0-1 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2390.0 MHz**



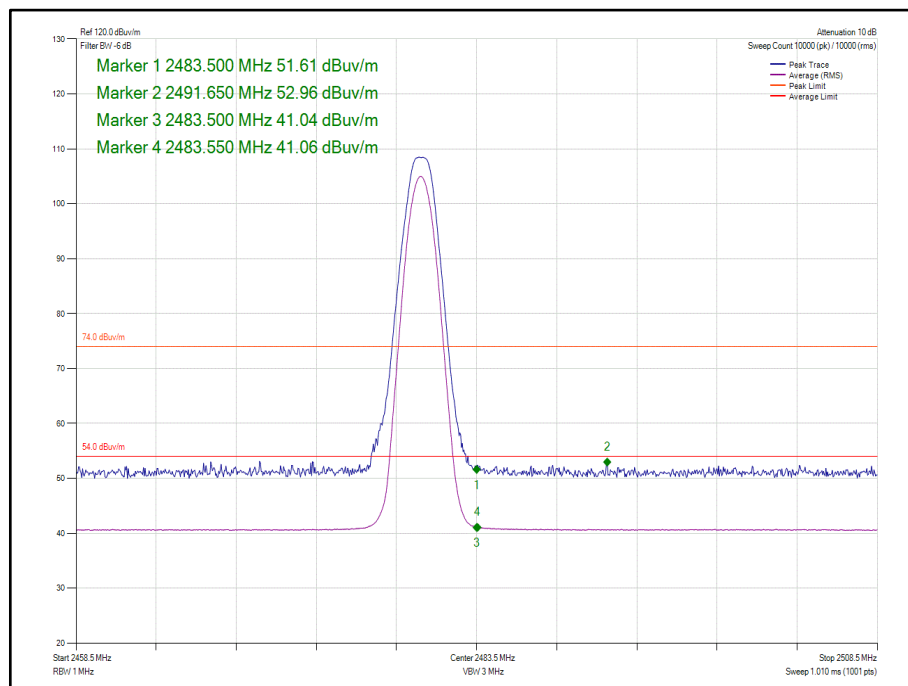
**Figure 118 – Core 0-1 - GFSK/DH1 - 2480 MHz - Band Edge Frequency 2483.5 MHz**

| Modulation | Tx Frequency (MHz) | Core | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|------------|--------------------|------|---------------------------|---------------------|------------------------|
| GFSK/DH1   | 2402               | 2    | 2390.0                    | 54.19               | 41.99                  |
| GFSK/DH1   | 2480               | 2    | 2483.5                    | 52.96               | 41.06                  |

**Table 96 - Restricted Band Edge Results**



**Figure 119 – Core 2 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2390.0 MHz**



**Figure 120 – Core 2 - GFSK/DH1 - 2480 MHz - Band Edge Frequency 2483.5 MHz**

ePA

| Modulation | Tx Frequency (MHz) | Core | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|------------|--------------------|------|---------------------------|---------------------|------------------------|
| GFSK/DH1   | 2402               | 0    | 2390.0                    | 55.03               | 42.24                  |
| GFSK/DH1   | 2480               | 0    | 2483.5                    | 55.52               | 43.31                  |

Table 97 - Restricted Band Edge Results

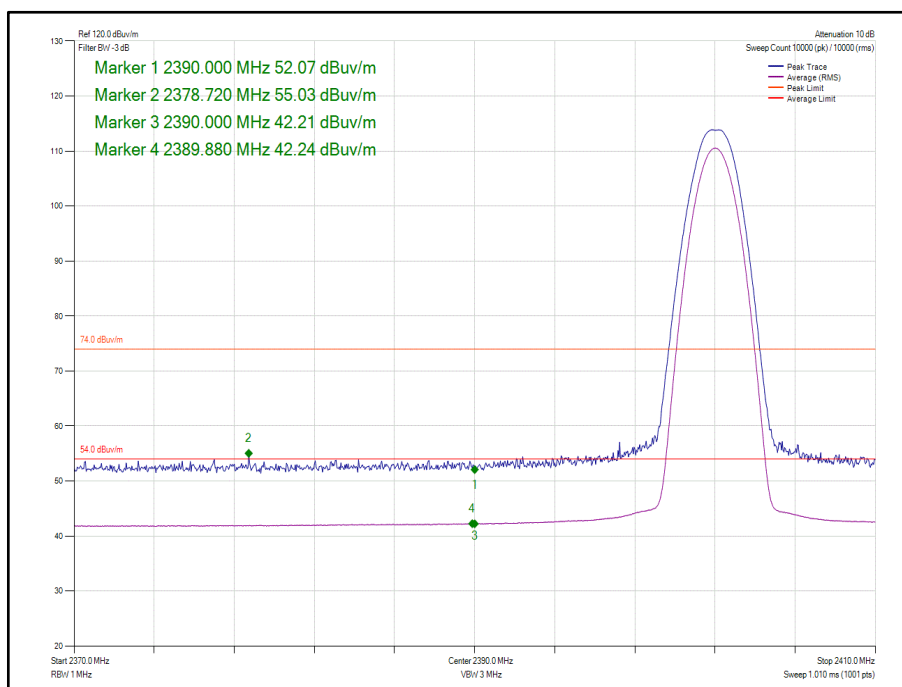


Figure 121 – Core 0 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2390.0 MHz

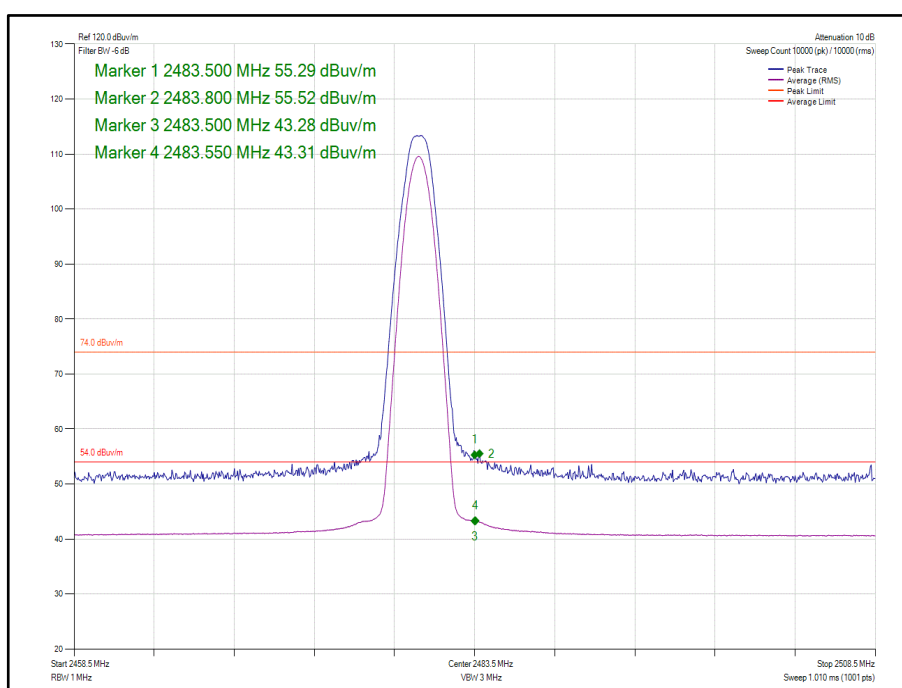
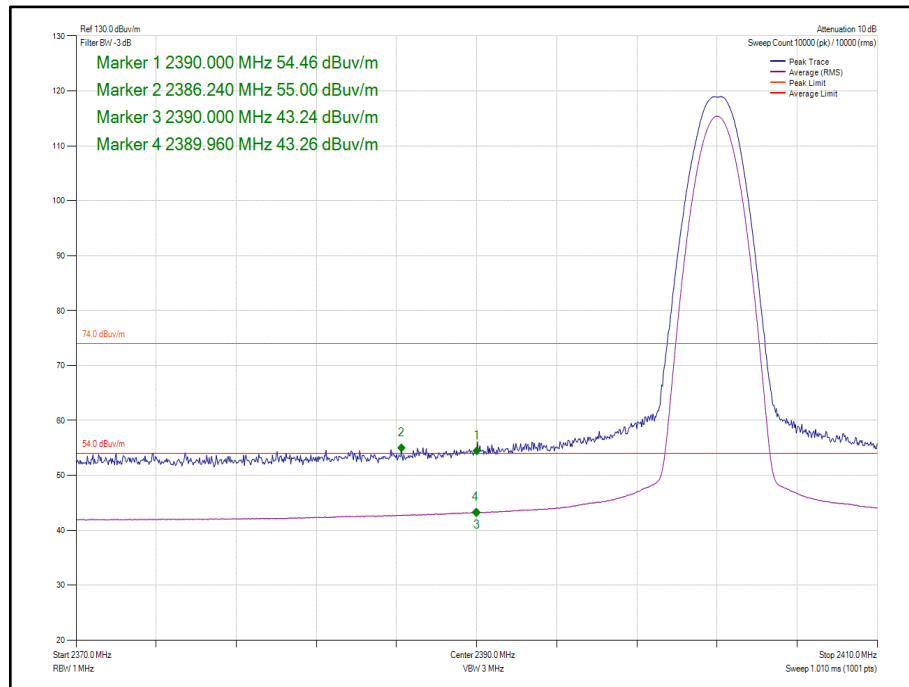


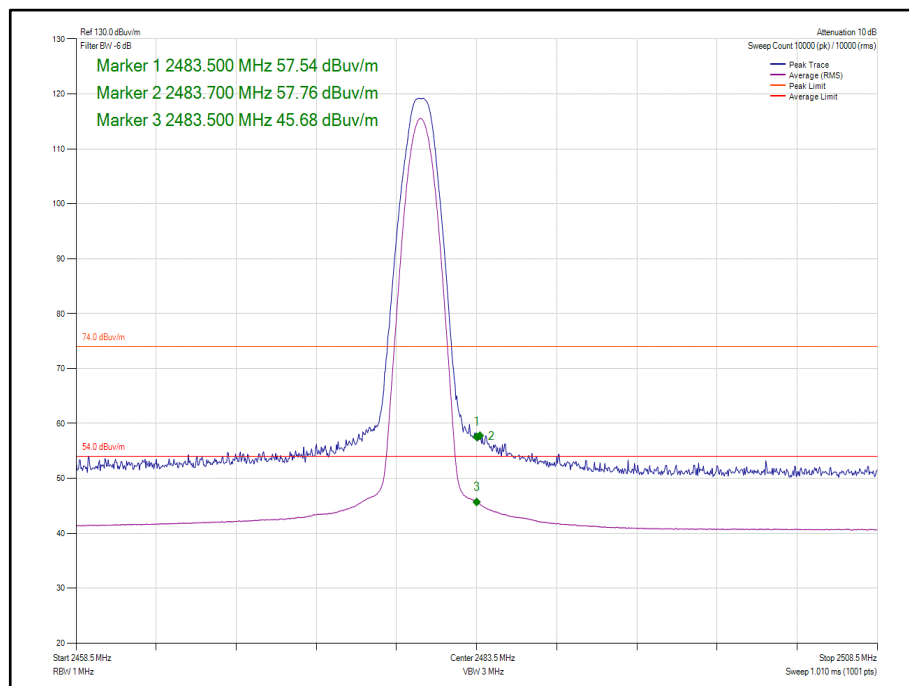
Figure 122 – Core 0 - GFSK/DH1 - 2480 MHz - Band Edge Frequency 2483.5 MHz

| Modulation | Tx Frequency (MHz) | Core | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|------------|--------------------|------|---------------------------|---------------------|------------------------|
| GFSK/DH1   | 2402               | 1    | 2390.0                    | 55.00               | 43.26                  |
| GFSK/DH1   | 2480               | 1    | 2483.5                    | 57.76               | 45.68                  |

**Table 98 - Restricted Band Edge Results**



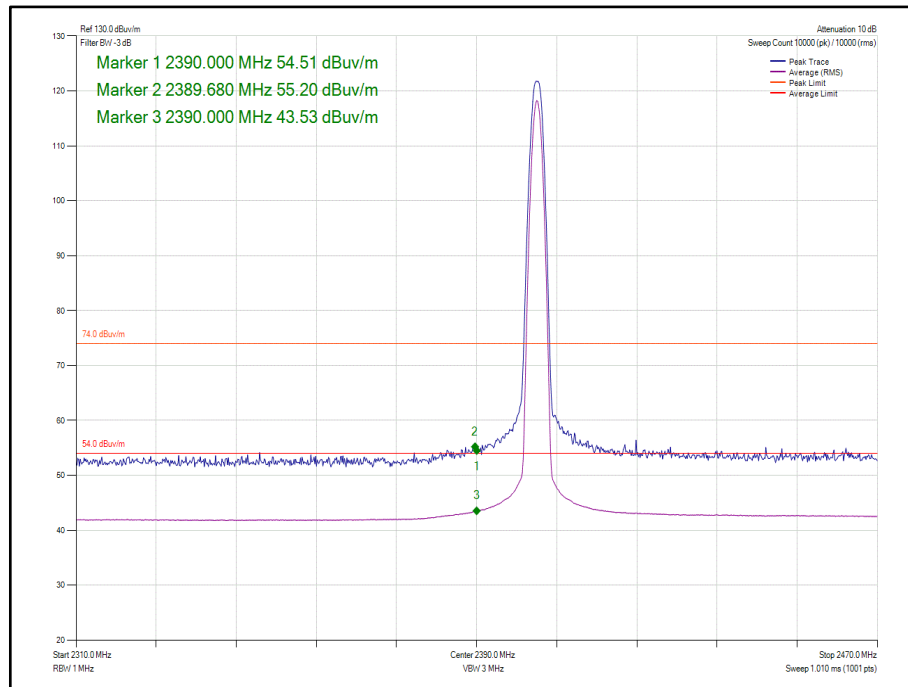
**Figure 123 – Core 1 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2390.0 MHz**



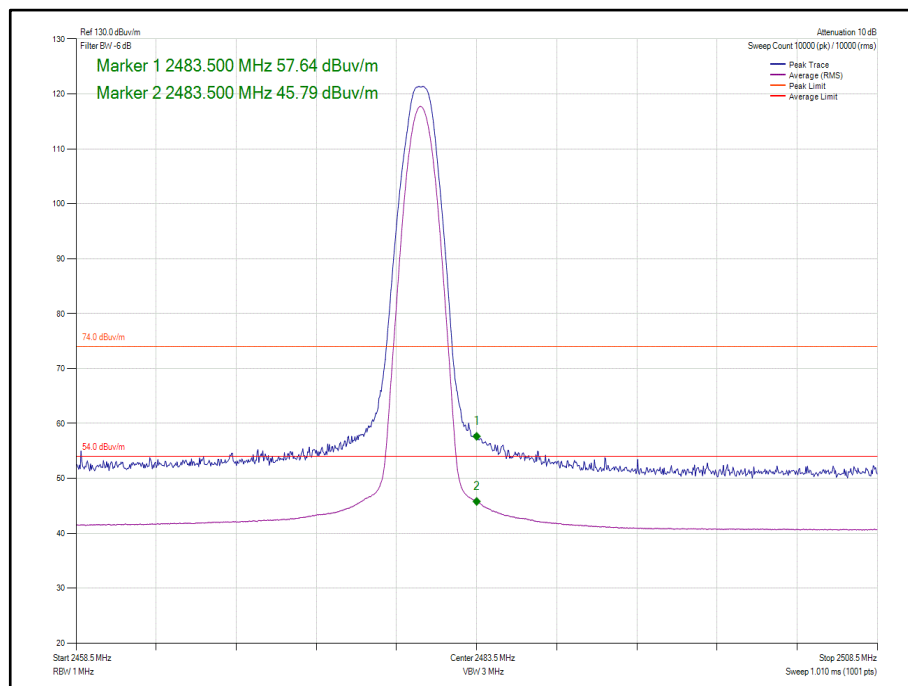
**Figure 124 – Core 1 - GFSK/DH1 - 2480 MHz - Band Edge Frequency 2483.5 MHz**

| Modulation | Tx Frequency (MHz) | Core | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|------------|--------------------|------|---------------------------|---------------------|------------------------|
| GFSK/DH1   | 2402               | 0-1  | 2390.0                    | 55.20               | 43.53                  |
| GFSK/DH1   | 2480               | 0-1  | 2483.5                    | 57.64               | 45.79                  |

**Table 99 - Restricted Band Edge Results**



**Figure 125 – Core 0-1 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2390.0 MHz**



**Figure 126 – Core 0-1 - GFSK/DH1 - 2480 MHz - Band Edge Frequency 2483.5 MHz**

LE2M

iPA

| Modulation | Tx Frequency (MHz) | Core | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|------------|--------------------|------|---------------------------|---------------------|------------------------|
| GFSK/DH1   | 2402               | 0    | 2390.0                    | 54.17               | 41.96                  |
| GFSK/DH1   | 2480               | 0    | 2483.5                    | 59.32               | 46.97                  |

Table 100 - Restricted Band Edge Results

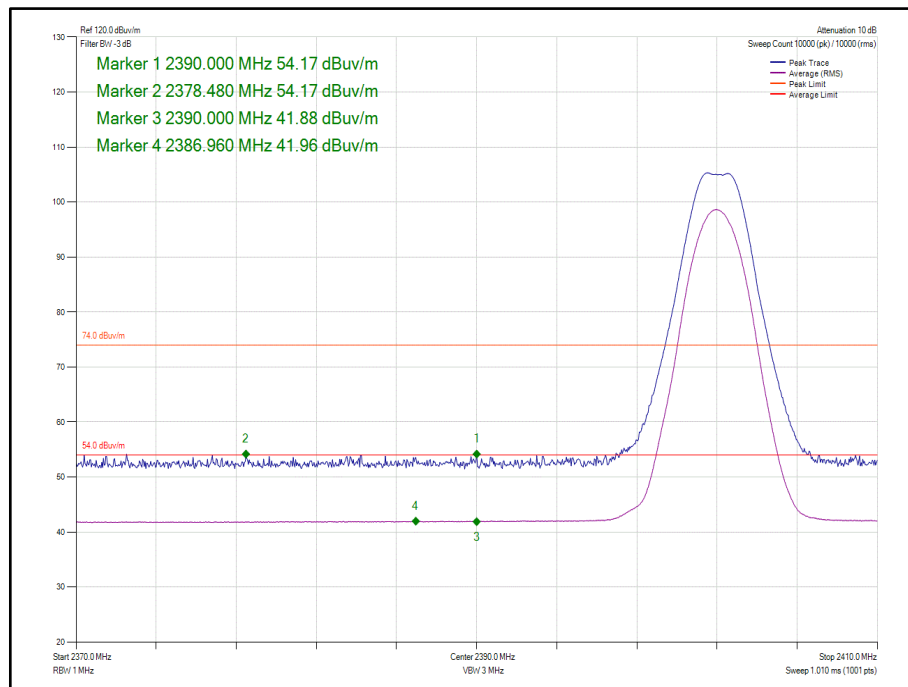


Figure 127 – Core 0 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2390.0 MHz

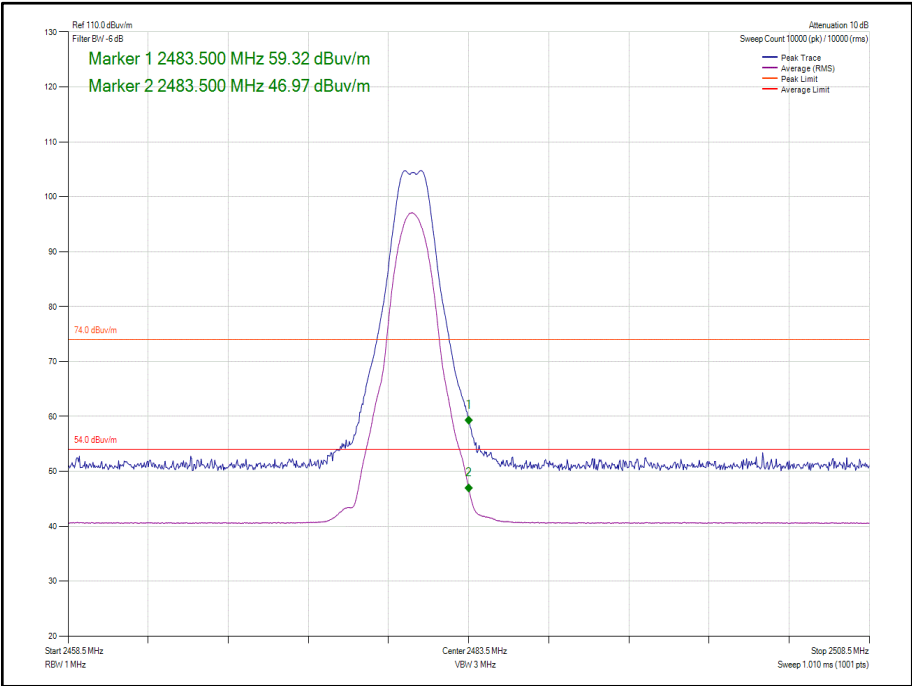
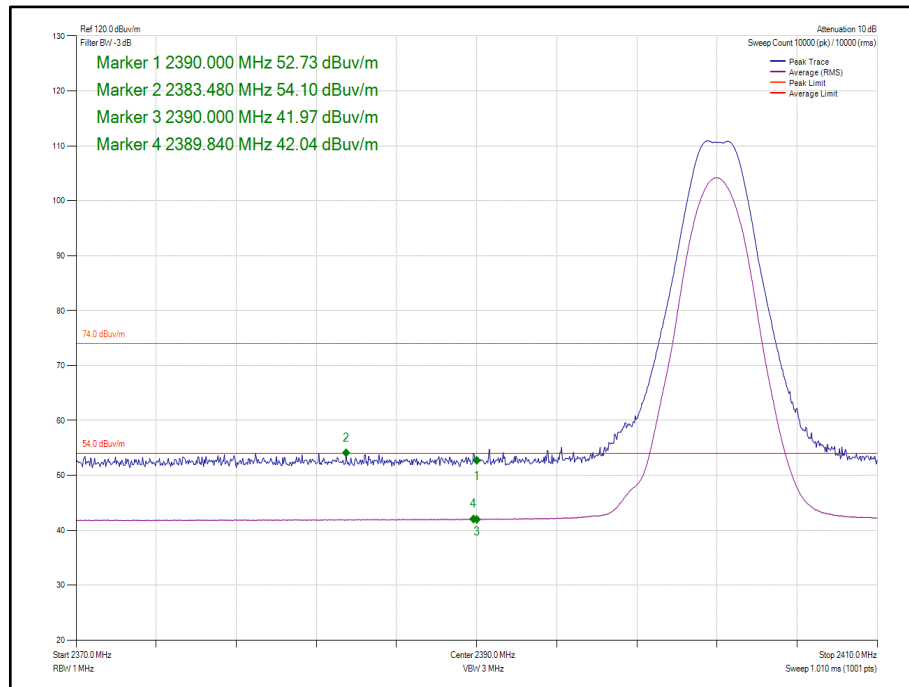


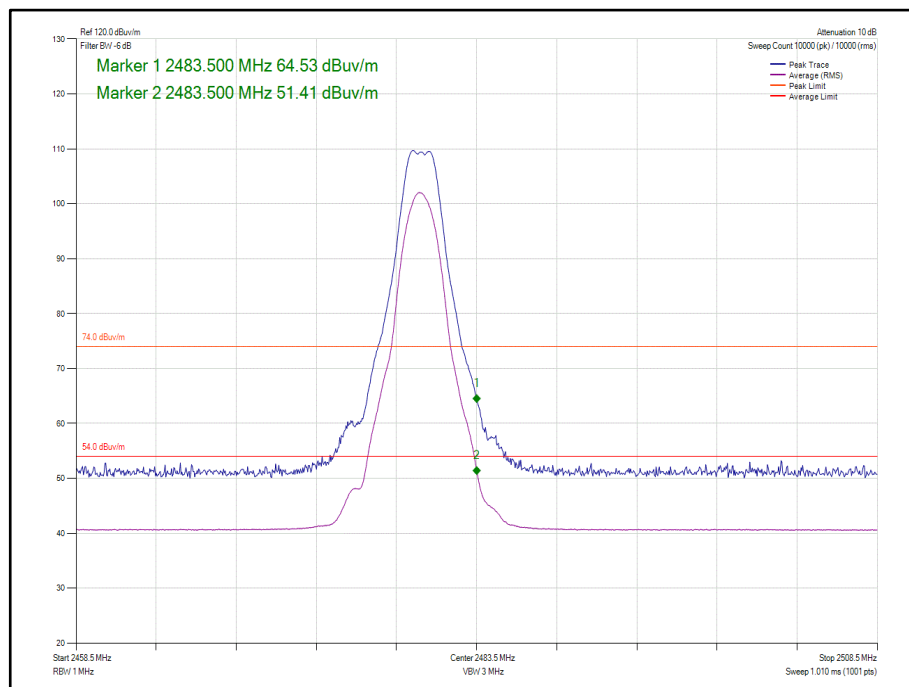
Figure 128 – Core 0 - GFSK/DH1 - 2480 MHz - Band Edge Frequency 2483.5 MHz

| Modulation | Tx Frequency (MHz) | Core | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|------------|--------------------|------|---------------------------|---------------------|------------------------|
| GFSK/DH1   | 2402               | 1    | 2390.0                    | 54.10               | 42.04                  |
| GFSK/DH1   | 2480               | 1    | 2483.5                    | 64.53               | 51.41                  |

**Table 101 - Restricted Band Edge Results**



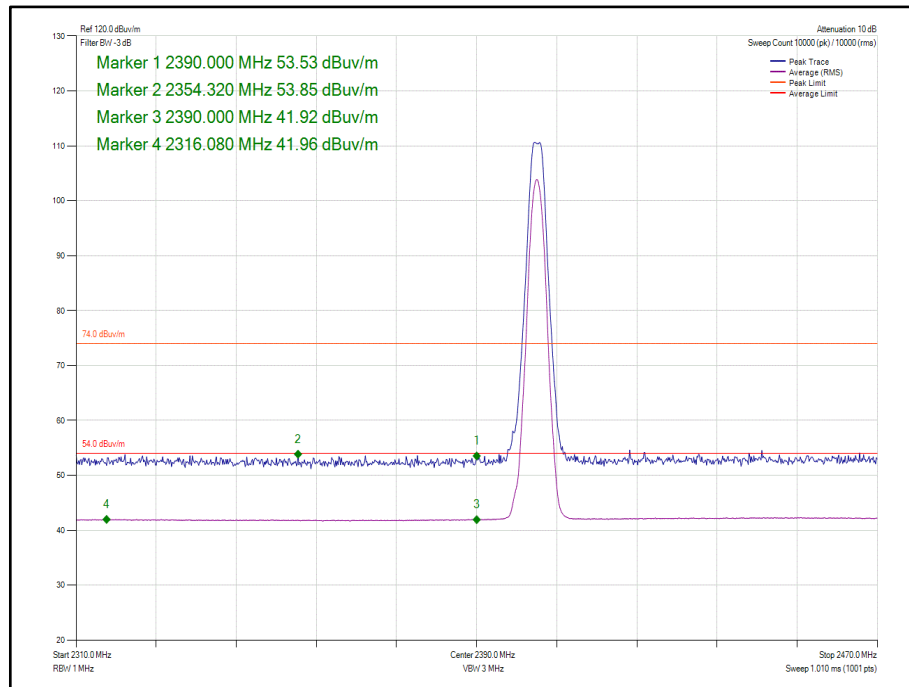
**Figure 129 – Core 1 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2390.0 MHz**



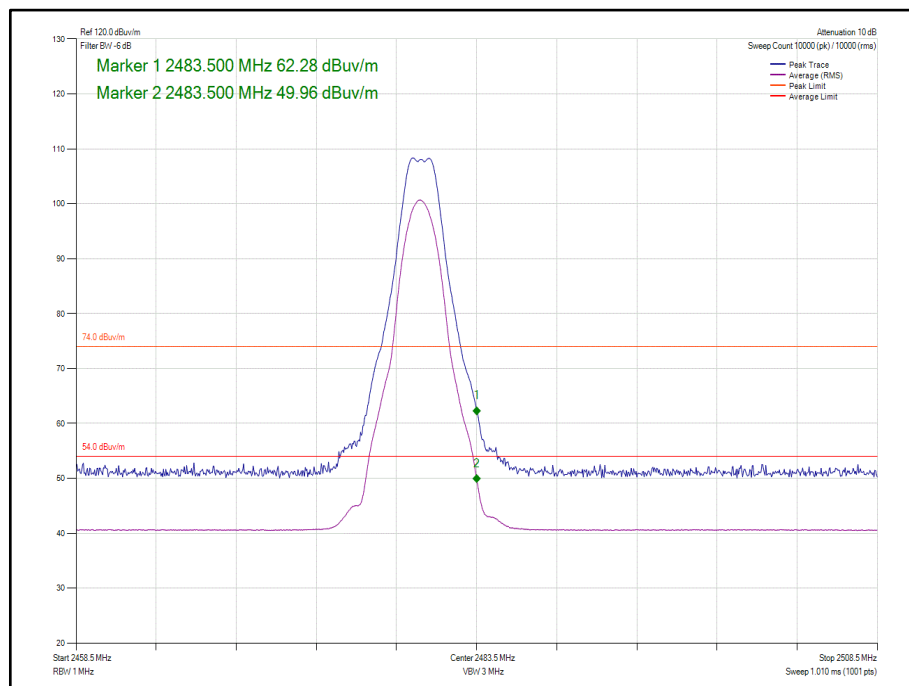
**Figure 130 – Core 1 - GFSK/DH1 - 2480 MHz - Band Edge Frequency 2483.5 MHz**

| Modulation | Tx Frequency (MHz) | Core | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|------------|--------------------|------|---------------------------|---------------------|------------------------|
| GFSK/DH1   | 2402               | 2    | 2390.0                    | 53.85               | 41.96                  |
| GFSK/DH1   | 2480               | 2    | 2483.5                    | 62.28               | 49.96                  |

**Table 102 - Restricted Band Edge Results**



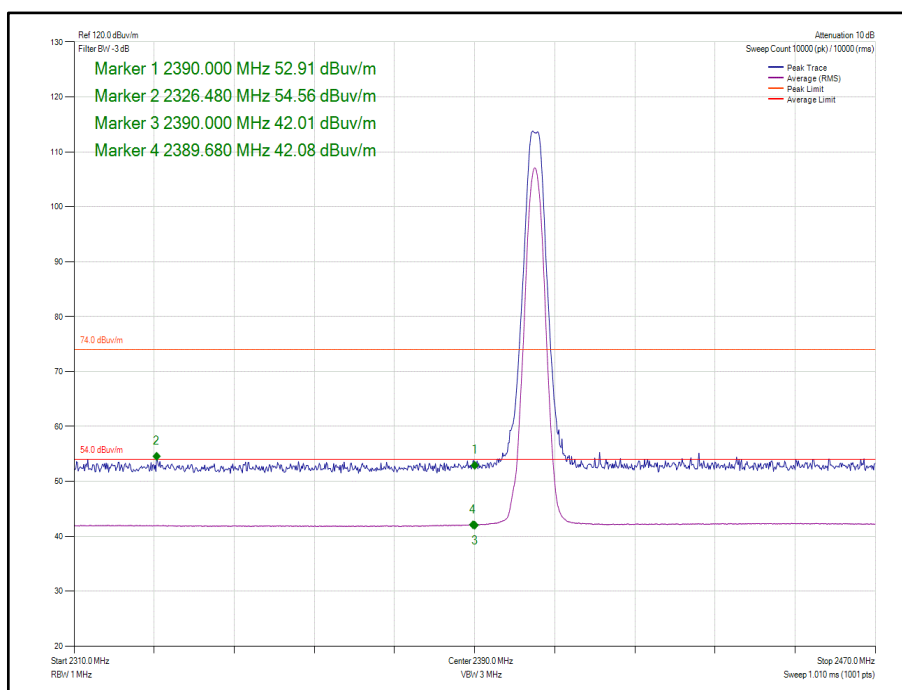
**Figure 131 – Core 2 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2390.0 MHz**



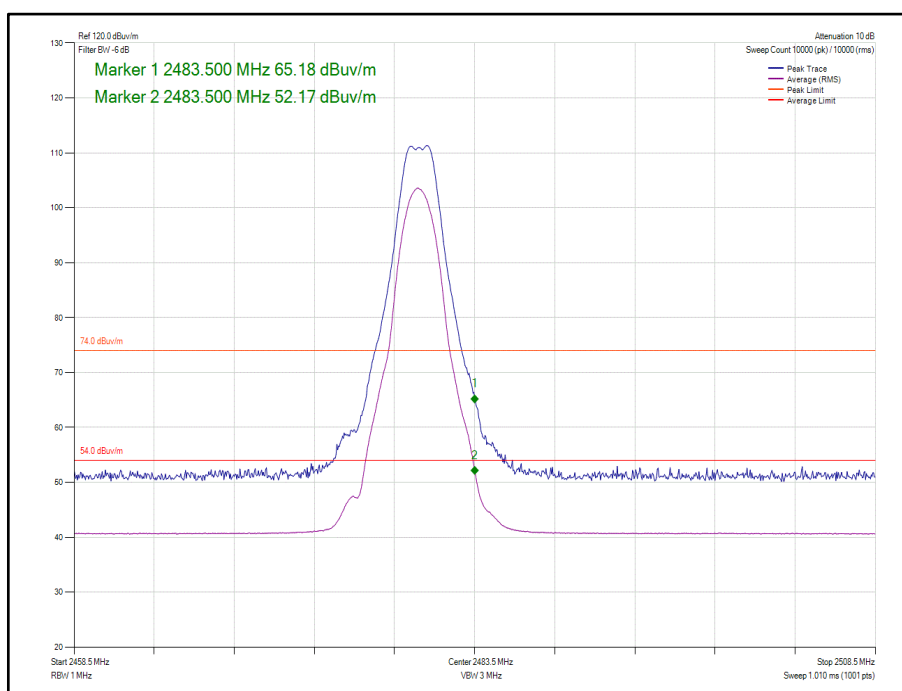
**Figure 132 – Core 2 - GFSK/DH1 - 2480 MHz - Band Edge Frequency 2483.5 MHz**

| Modulation | Tx Frequency (MHz) | Core | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|------------|--------------------|------|---------------------------|---------------------|------------------------|
| GFSK/DH1   | 2402               | 0-1  | 2390.0                    | 54.56               | 52.08                  |
| GFSK/DH1   | 2480               | 0-1  | 2483.5                    | 65.18               | 52.17                  |

**Table 103 - Restricted Band Edge Results**



**Figure 133 – Core 0-1 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2390.0 MHz**



**Figure 134 – Core 0-1 - GFSK/DH1 - 2480 MHz - Band Edge Frequency 2483.5 MHz**



HDR4

| Mode   | Modulation | Core | Packet Type | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Peak Level (dBµV/m) | Average Level (dBµV/m) |
|--------|------------|------|-------------|--------------------|---------------------------|---------------------|------------------------|
| Static | GFSK       | 0    | 4DH5        | 2404               | 2390.0                    | 54.19               | 41.95                  |
| Static | GFSK       | 0    | 4DH5        | 2478               | 2483.5                    | 53.24               | 40.71                  |

Table 104 - Restricted Band Edge Results

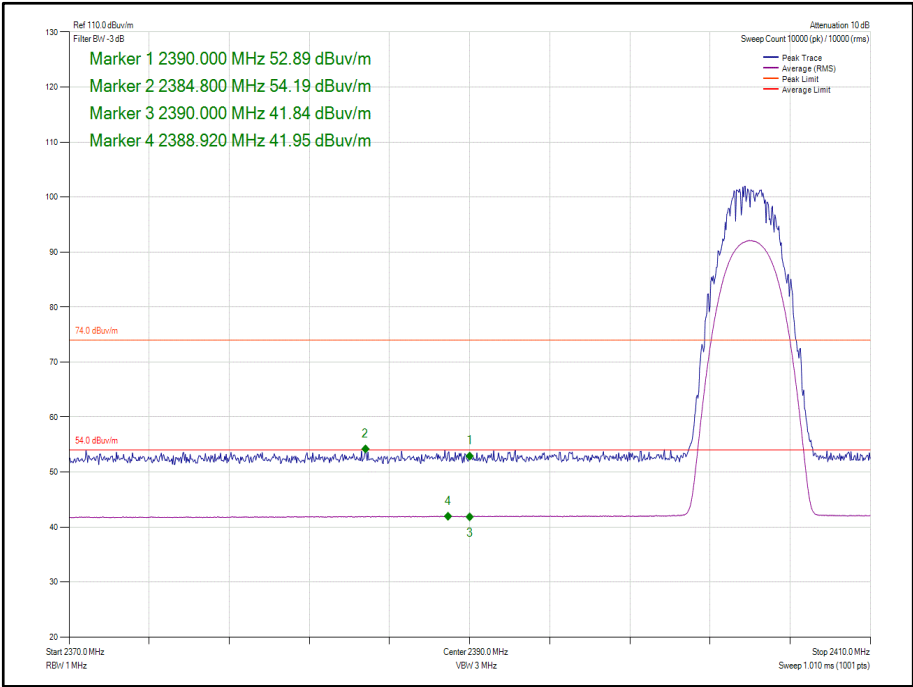


Figure 135 - Core 0 - Static - GFSK/4DH5 - 2404 MHz - Band Edge Frequency 2390.0 MHz

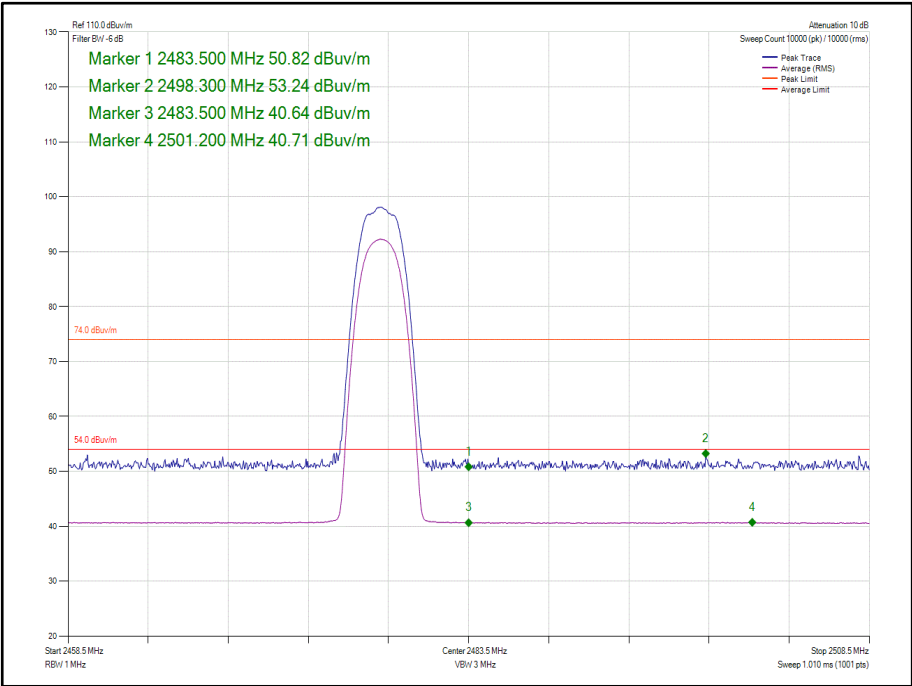
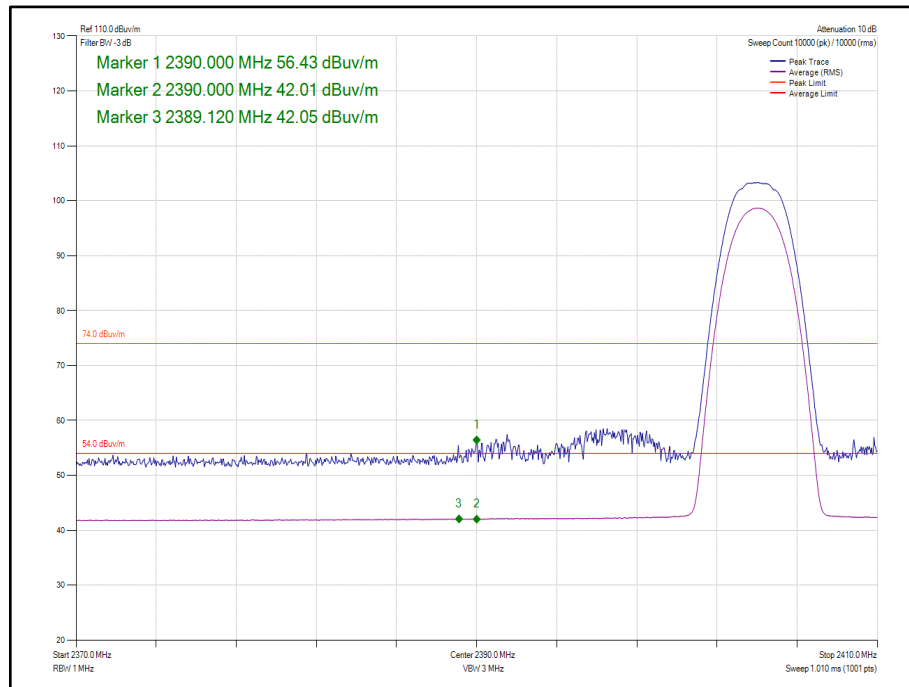


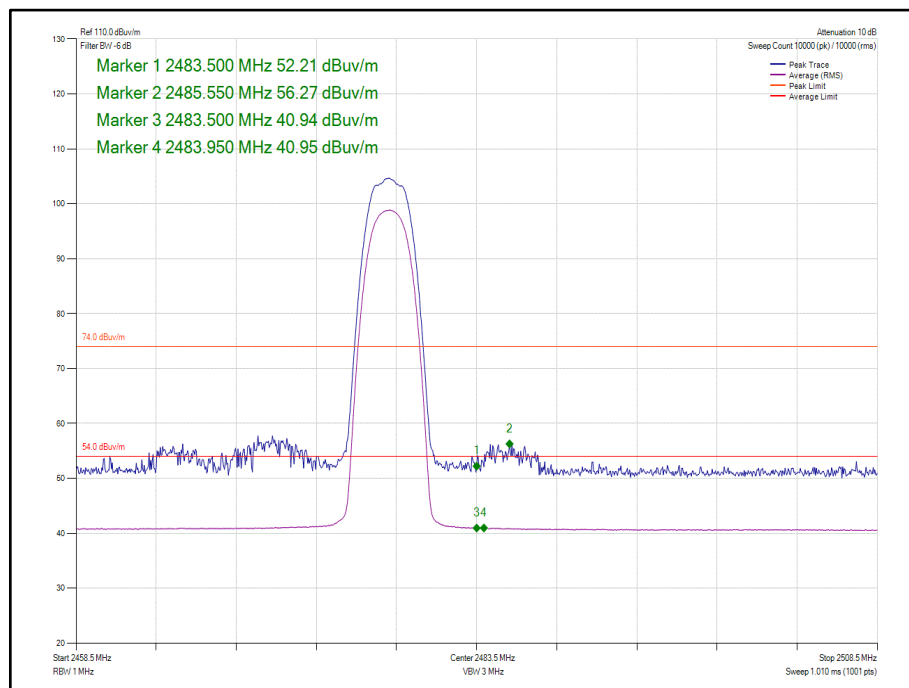
Figure 136 - Core 0 - Static - GFSK/4DH5 - 2478 MHz - Band Edge Frequency 2483.5 MHz

| Mode   | Modulation | Core | Packet Type | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|--------|------------|------|-------------|--------------------|---------------------------|---------------------|------------------------|
| Static | GFSK       | 1    | 4DH5        | 2404               | 2390.0                    | 56.43               | 42.05                  |
| Static | GFSK       | 1    | 4DH5        | 2478               | 2483.5                    | 56.27               | 40.95                  |

**Table 105 - Restricted Band Edge Results**



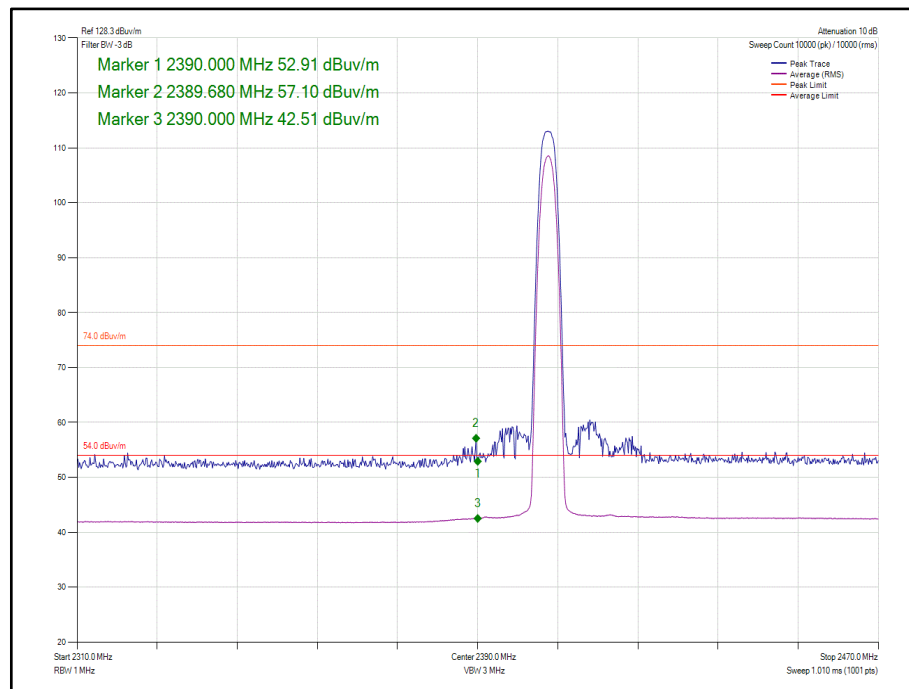
**Figure 137 - Core 1 - Static - GFSK/4DH5 - 2404 MHz - Band Edge Frequency 2390.0 MHz**



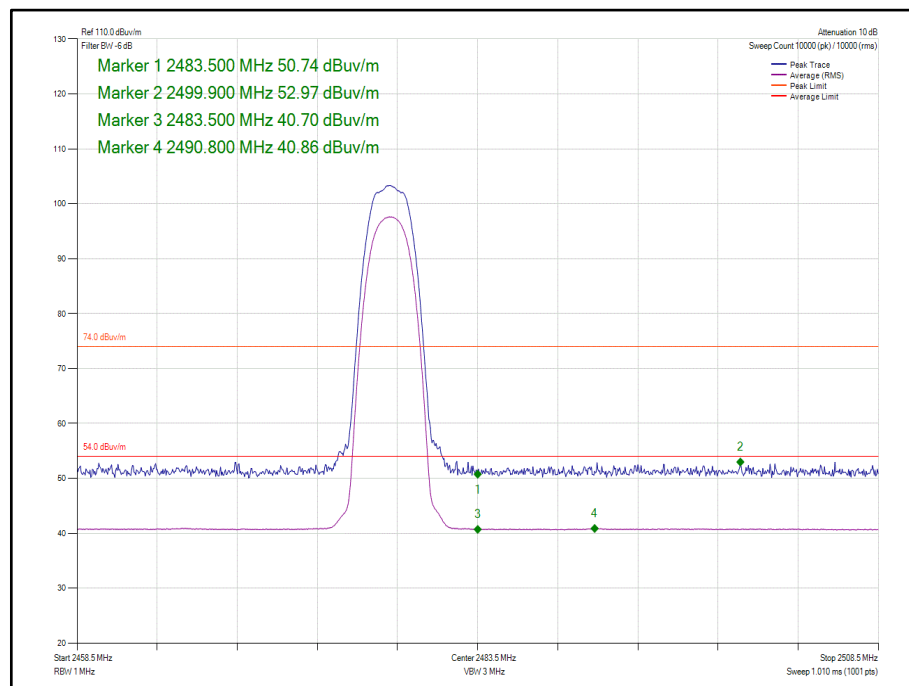
**Figure 138 - Core 1 - Static - GFSK/4DH5 - 2478 MHz - Band Edge Frequency 2483.5 MHz**

| Mode   | Modulation | Core | Packet Type | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|--------|------------|------|-------------|--------------------|---------------------------|---------------------|------------------------|
| Static | GFSK       | 0-1  | 4DH5        | 2404               | 2390.0                    | 57.10               | 42.51                  |
| Static | GFSK       | 0-1  | 4DH5        | 2478               | 2483.5                    | 52.97               | 40.86                  |

**Table 106 - Restricted Band Edge Results**



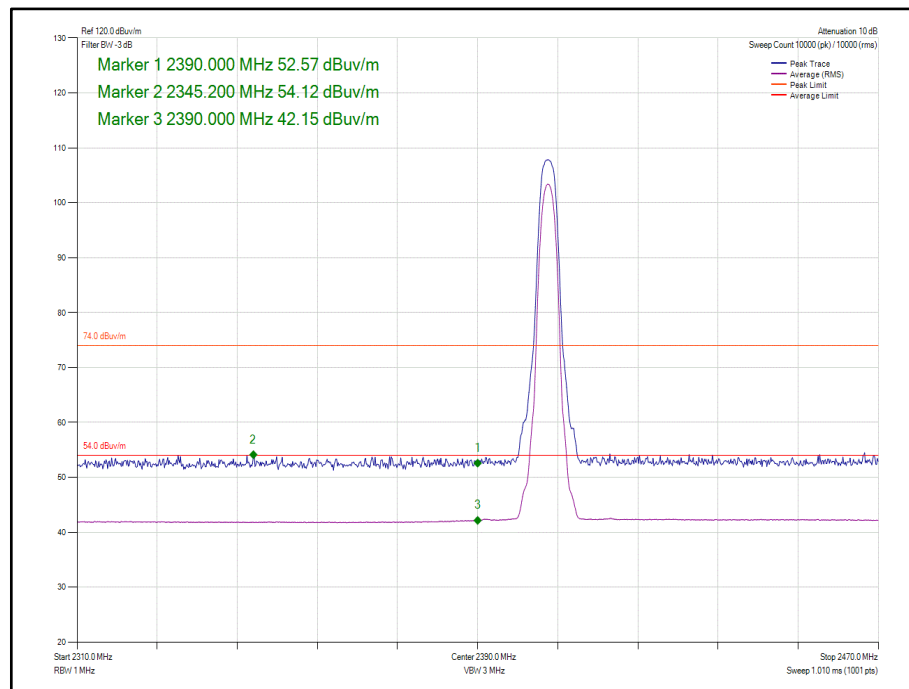
**Figure 139 - Core 0-1 - Static - GFSK/4DH5 - 2404 MHz - Band Edge Frequency 2390.0 MHz**



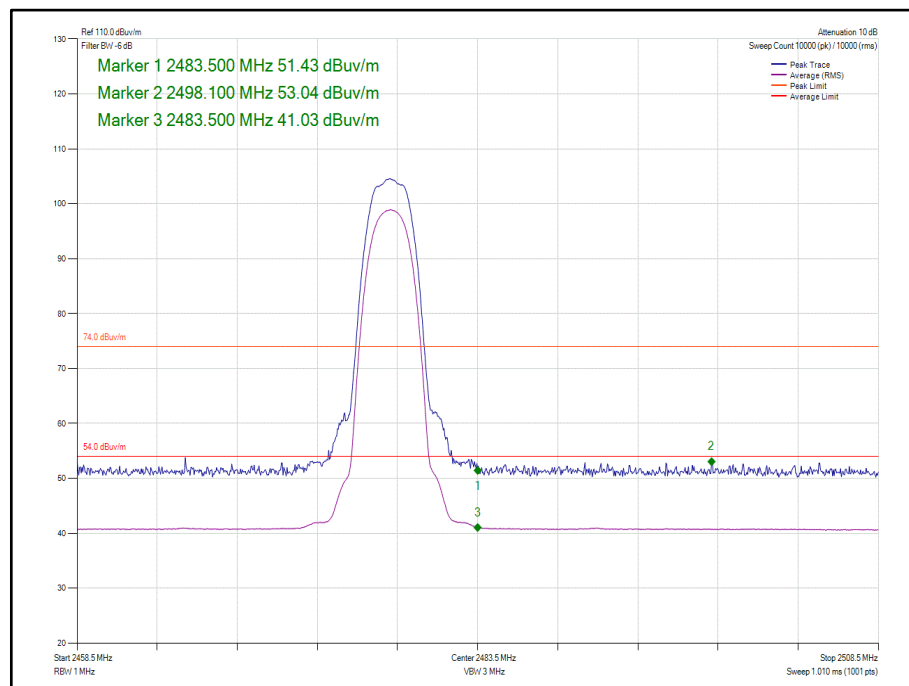
**Figure 140 - Core 0-1 - Static - GFSK/4DH5 - 2478 MHz - Band Edge Frequency 2483.5 MHz**

| Mode   | Modulation | Core | Packet Type | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|--------|------------|------|-------------|--------------------|---------------------------|---------------------|------------------------|
| Static | GFSK       | 2    | 4DH5        | 2404               | 2390.0                    | 54.12               | 42.15                  |
| Static | GFSK       | 2    | 4DH5        | 2478               | 2483.5                    | 53.04               | 41.03                  |

**Table 107 - Restricted Band Edge Results**



**Figure 141 - Core 2 - Static - GFSK/4DH5 - 2404 MHz - Band Edge Frequency 2390.0 MHz**

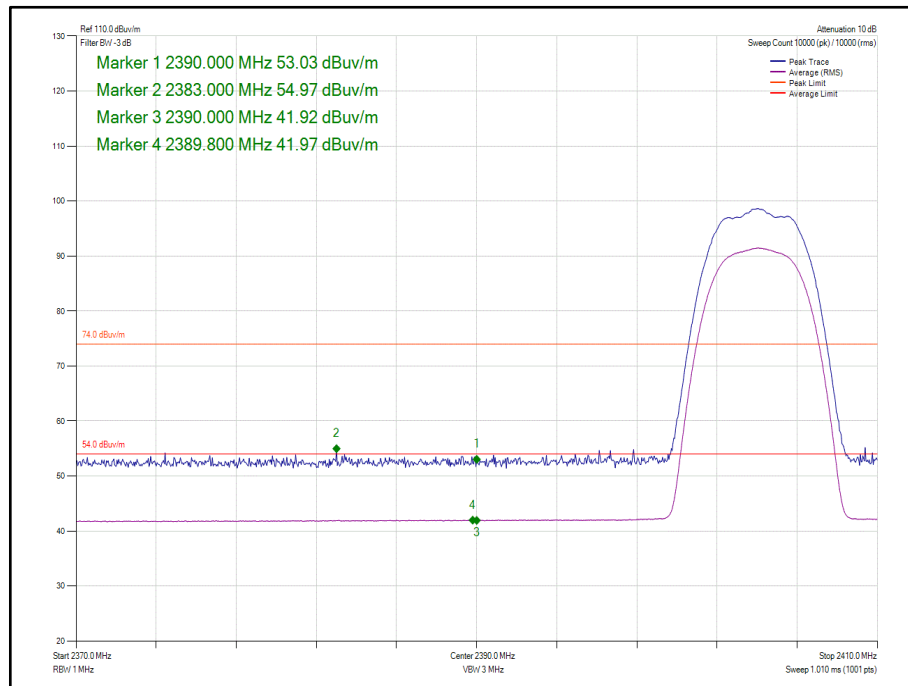


**Figure 142 - Core 2 - Static - GFSK/4DH5 - 2478 MHz - Band Edge Frequency 2483.5 MHz**

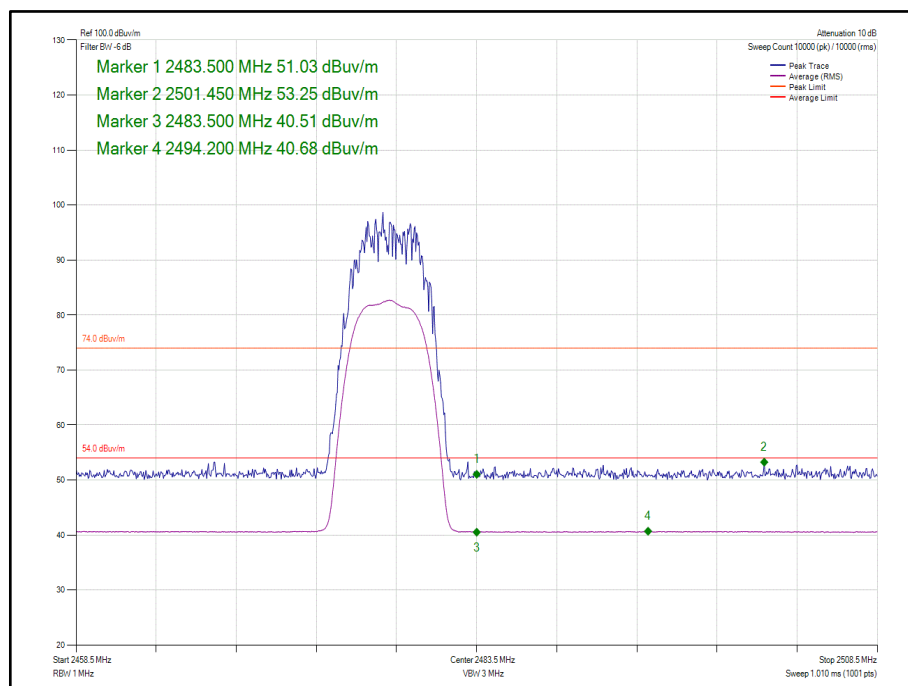
## HDR8

| Mode   | Modulation | Core | Packet Type | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|--------|------------|------|-------------|--------------------|---------------------------|---------------------|------------------------|
| Static | GFSK       | 0    | 8DH5        | 2404               | 2390.0                    | 54.97               | 41.97                  |
| Static | GFSK       | 0    | 8DH5        | 2478               | 2483.5                    | 53.25               | 40.68                  |

**Table 108 - Restricted Band Edge Results**



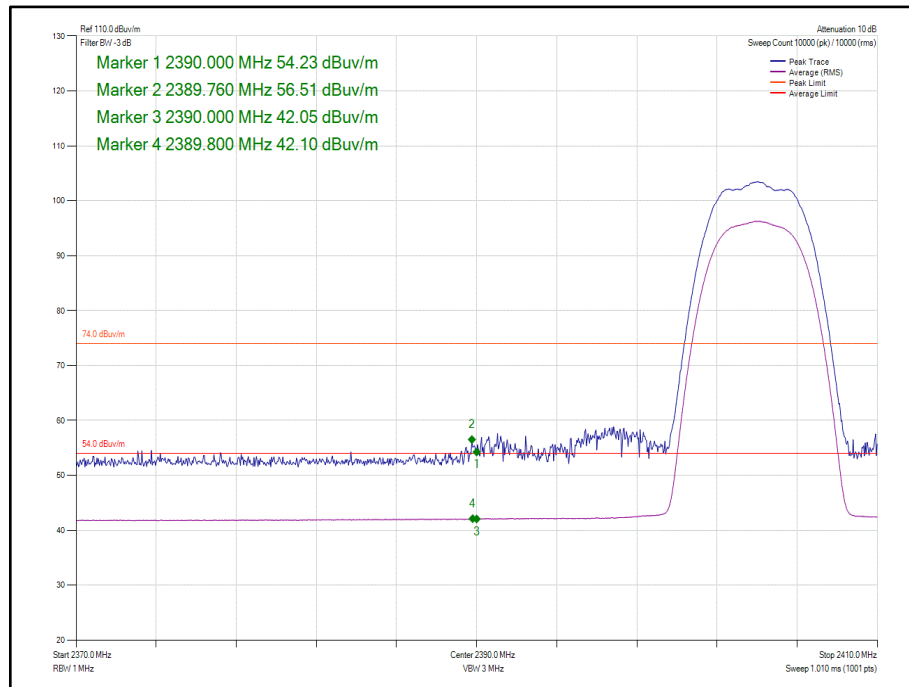
**Figure 143- Core 0 - Static - GFSK/8DH5 - 2404 MHz - Band Edge Frequency 2390.0 MHz**



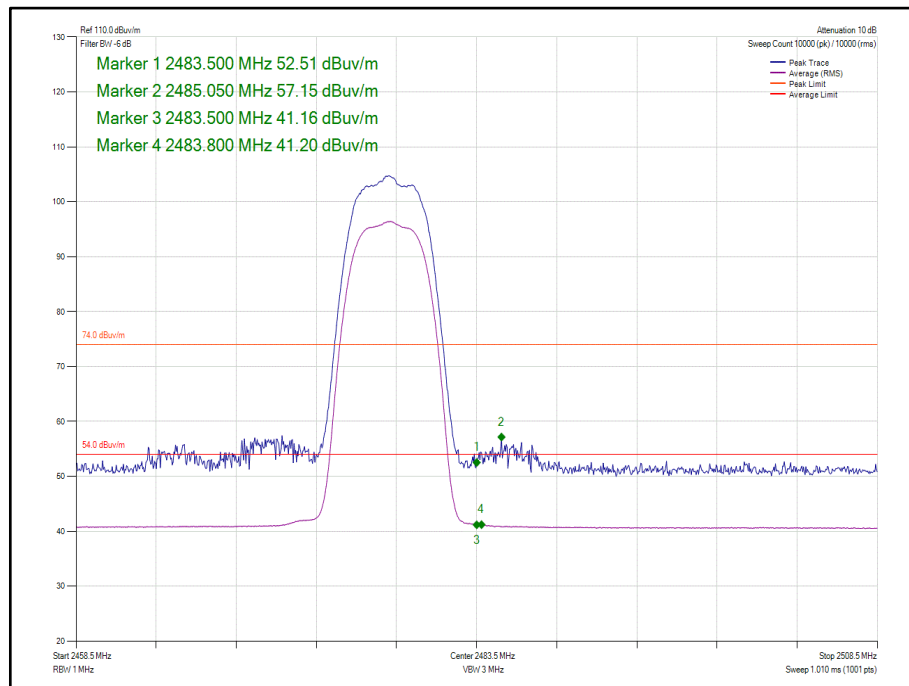
**Figure 144 - Core 0 - Static - GFSK/8DH5 - 2478 MHz - Band Edge Frequency 2483.5 MHz**

| Mode   | Modulation | Core | Packet Type | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|--------|------------|------|-------------|--------------------|---------------------------|---------------------|------------------------|
| Static | GFSK       | 1    | 8DH5        | 2404               | 2390.0                    | 56.51               | 42.10                  |
| Static | GFSK       | 1    | 8DH5        | 2478               | 2483.5                    | 57.15               | 41.20                  |

**Table 109 - Restricted Band Edge Results**



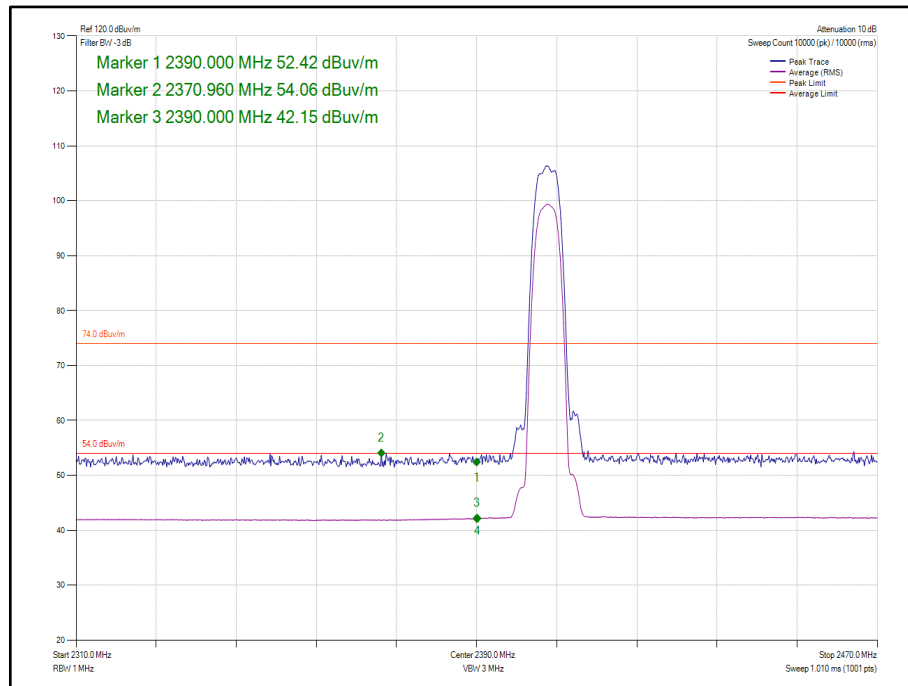
**Figure 145- Core 1 - Static - GFSK/8DH5 - 2404 MHz - Band Edge Frequency 2390.0 MHz**



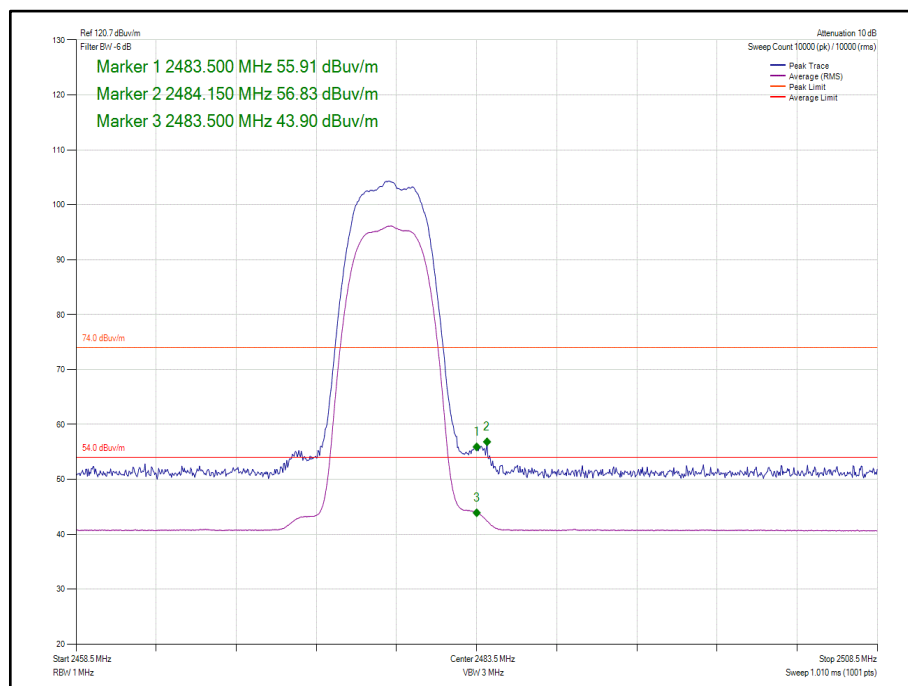
**Figure 146 - Core 1 - Static - GFSK/8DH5 - 2478 MHz - Band Edge Frequency 2483.5 MHz**

| Mode   | Modulation | Core | Packet Type | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|--------|------------|------|-------------|--------------------|---------------------------|---------------------|------------------------|
| Static | GFSK       | 0-1  | 8DH5        | 2404               | 2390.0                    | 54.06               | 42.15                  |
| Static | GFSK       | 0-1  | 8DH5        | 2478               | 2483.5                    | 56.83               | 43.90                  |

**Table 110 - Restricted Band Edge Results**



**Figure 147- Core 0-1 - Static - GFSK/8DH5 - 2404 MHz - Band Edge Frequency 2390.0 MHz**

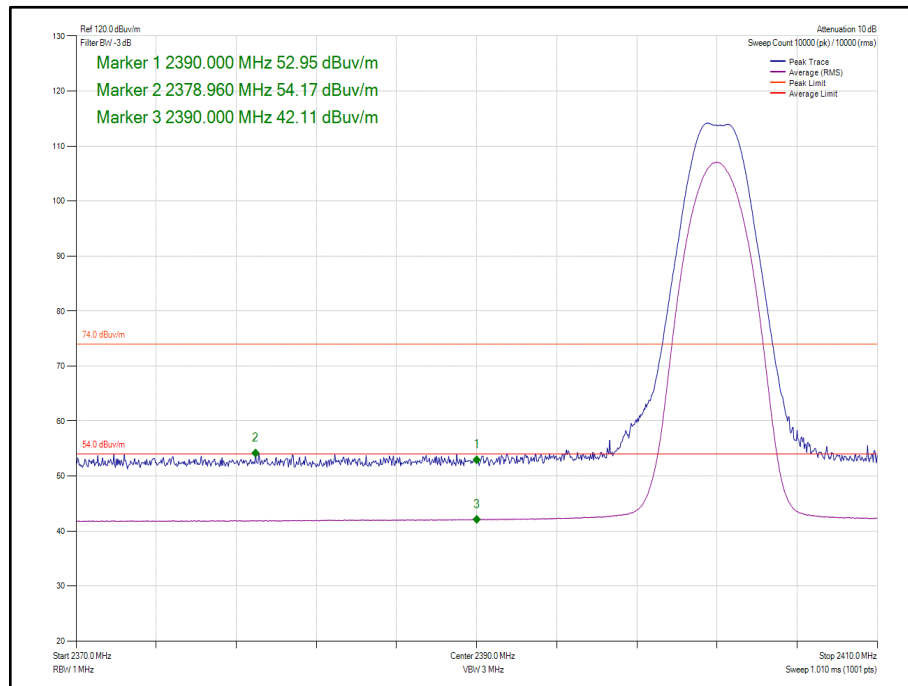


**Figure 148 - Core 0-1 - Static - GFSK/8DH5 - 2478 MHz - Band Edge Frequency 2483.5 MHz**

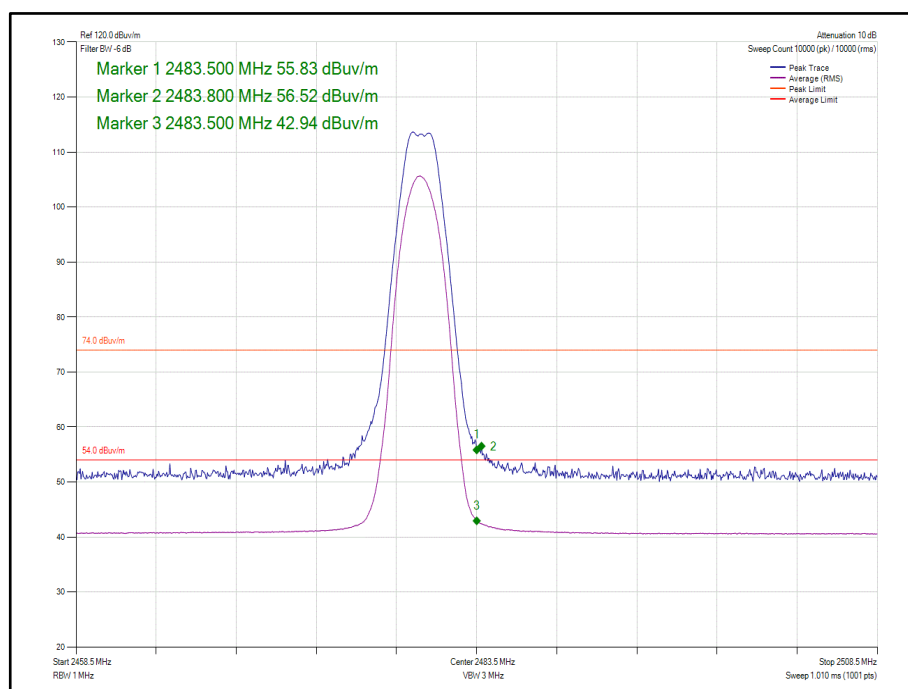
ePA

| Modulation | Tx Frequency (MHz) | Core | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|------------|--------------------|------|---------------------------|---------------------|------------------------|
| GFSK/DH1   | 2402               | 0    | 2390.0                    | 54.17               | 42.11                  |
| GFSK/DH1   | 2480               | 0    | 2483.5                    | 56.52               | 42.94                  |

**Table 111 - Restricted Band Edge Results**



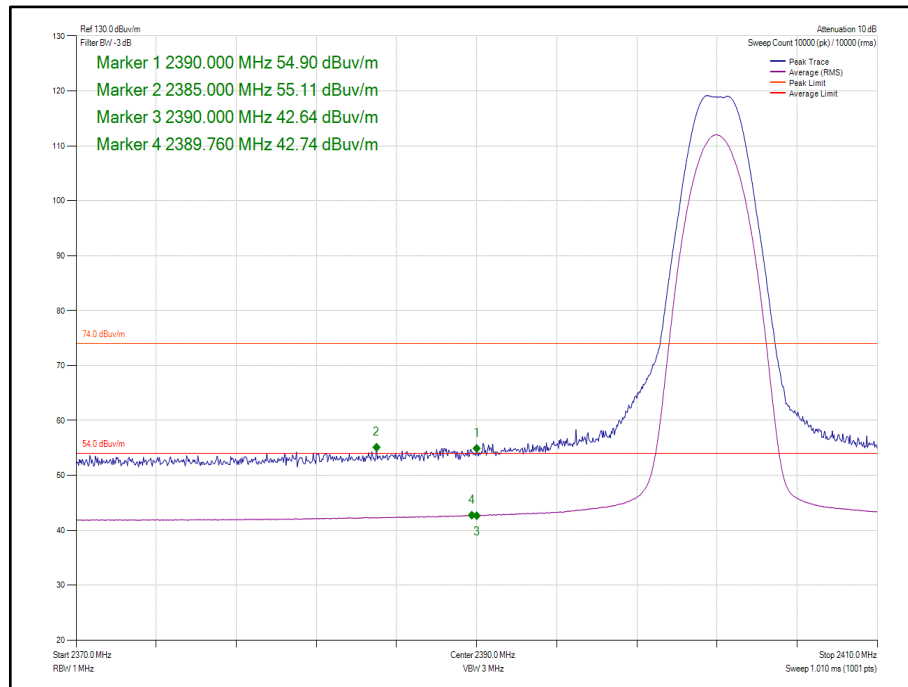
**Figure 149 – Core 0 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2390.0 MHz**



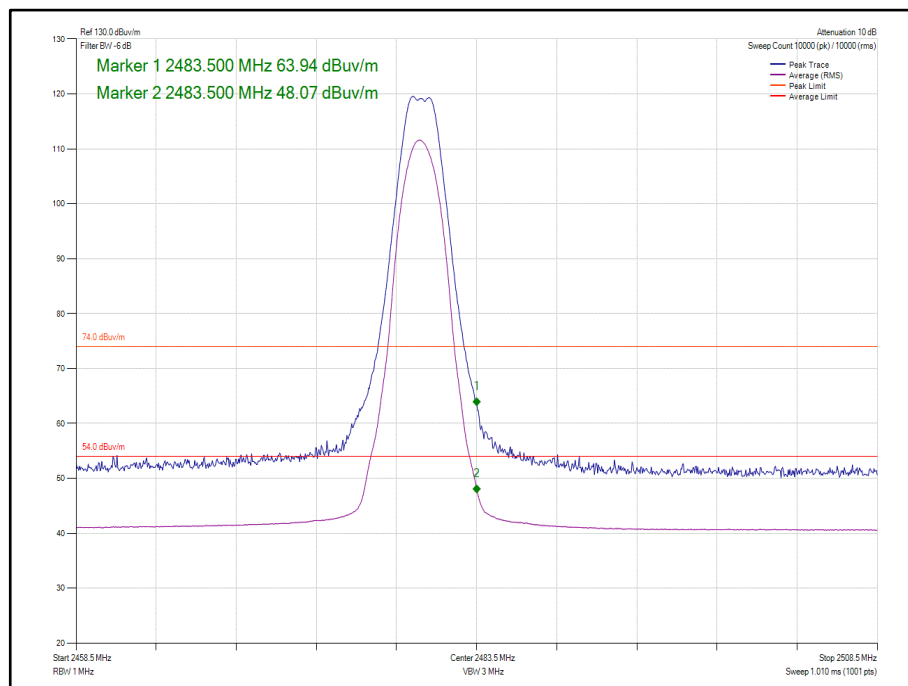
**Figure 150 – Core 0 - GFSK/DH1 - 2480 MHz - Band Edge Frequency 2483.5 MHz**

| Modulation | Tx Frequency (MHz) | Core | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|------------|--------------------|------|---------------------------|---------------------|------------------------|
| GFSK/DH1   | 2402               | 1    | 2390.0                    | 55.11               | 42.74                  |
| GFSK/DH1   | 2480               | 1    | 2483.5                    | 63.94               | 48.07                  |

**Table 112 - Restricted Band Edge Results**



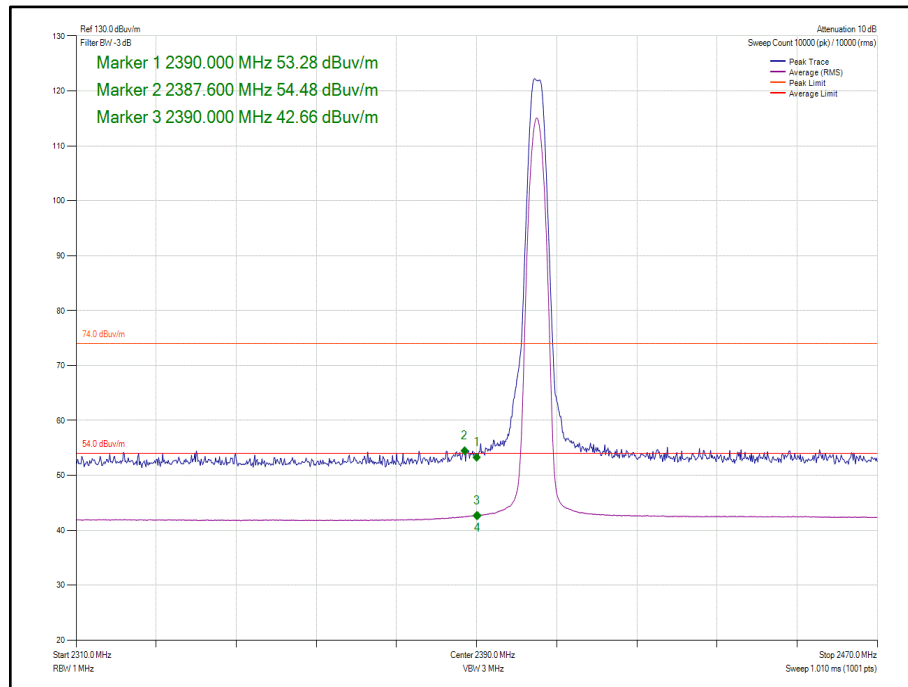
**Figure 151 – Core 1 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2390.0 MHz**



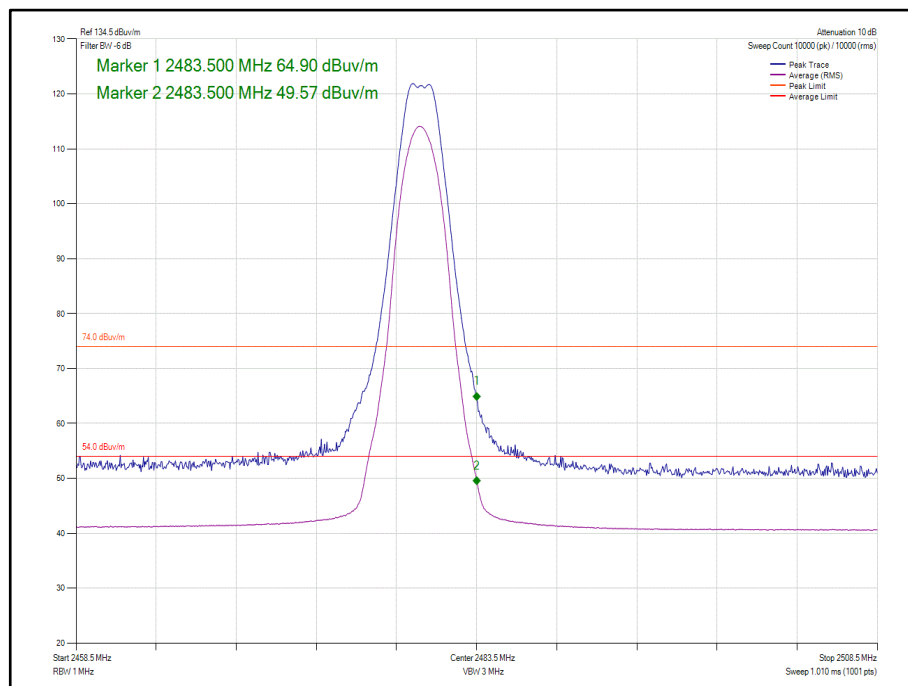
**Figure 152 – Core 1 - GFSK/DH1 - 2480 MHz - Band Edge Frequency 2483.5 MHz**

| Modulation | Tx Frequency (MHz) | Core | Band Edge Frequency (MHz) | Peak Level (dB $\mu$ V/m) | Average Level (dB $\mu$ V/m) |
|------------|--------------------|------|---------------------------|---------------------------|------------------------------|
| GFSK/DH1   | 2402               | 0-1  | 2390.0                    | 54.48                     | 42.66                        |
| GFSK/DH1   | 2480               | 0-1  | 2483.5                    | 64.90                     | 49.57                        |

**Table 113 - Restricted Band Edge Results**



**Figure 153 – Core 0-1 - GFSK/DH1 - 2402 MHz - Band Edge Frequency 2390.0 MHz**

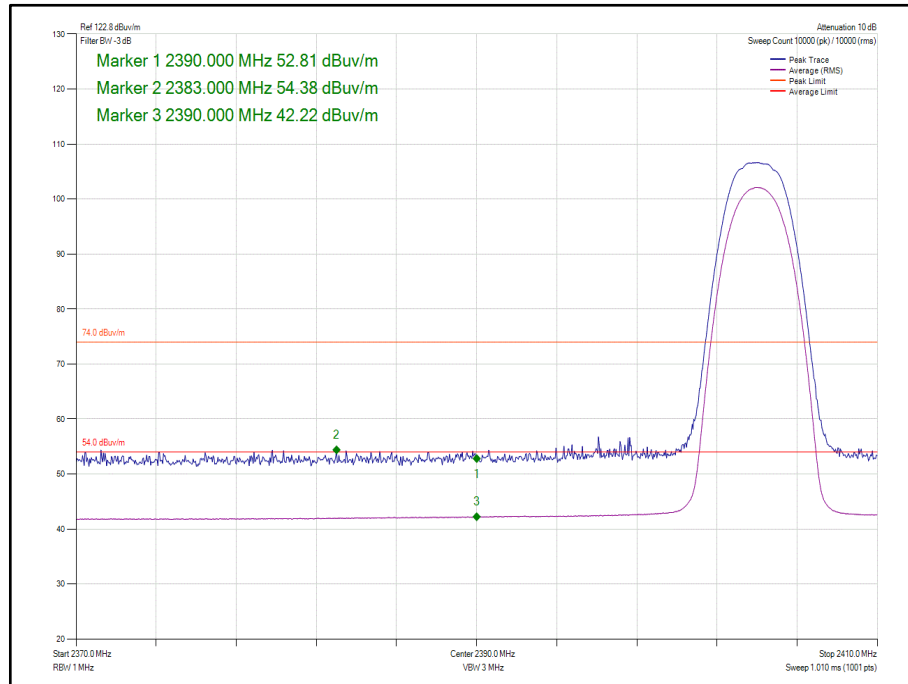


**Figure 154 – Core 0-1 - GFSK/DH1 - 2480 MHz - Band Edge Frequency 2483.5 MHz**

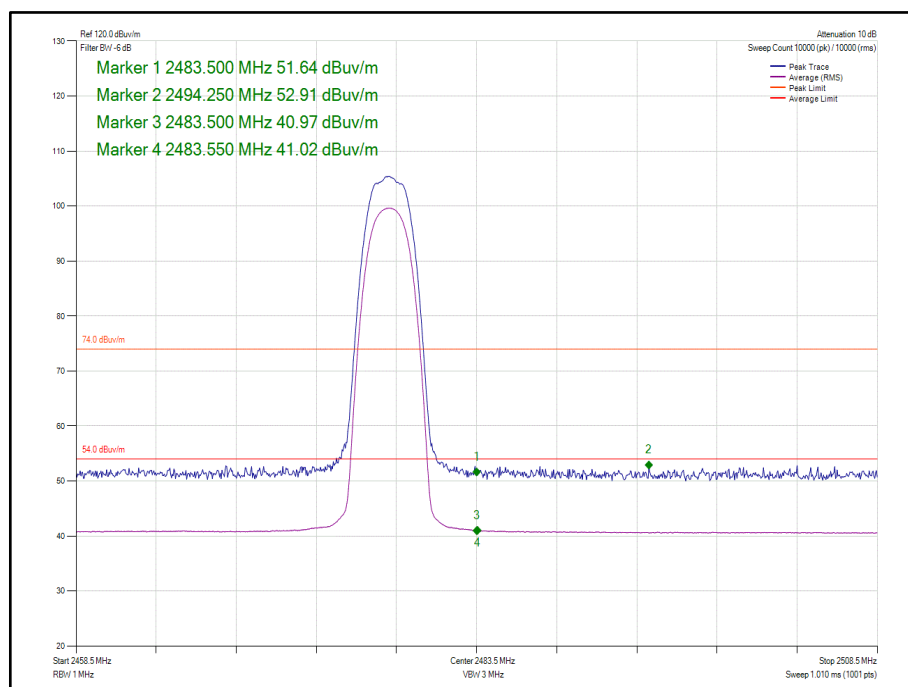
#### HDR4

| Mode   | Modulation | Core | Packet Type | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|--------|------------|------|-------------|--------------------|---------------------------|---------------------|------------------------|
| Static | GFSK       | 0    | 4DH5        | 2404               | 2390.0                    | 54.38               | 42.22                  |
| Static | GFSK       | 0    | 4DH5        | 2478               | 2483.5                    | 52.91               | 41.02                  |

**Table 114 - Restricted Band Edge Results**



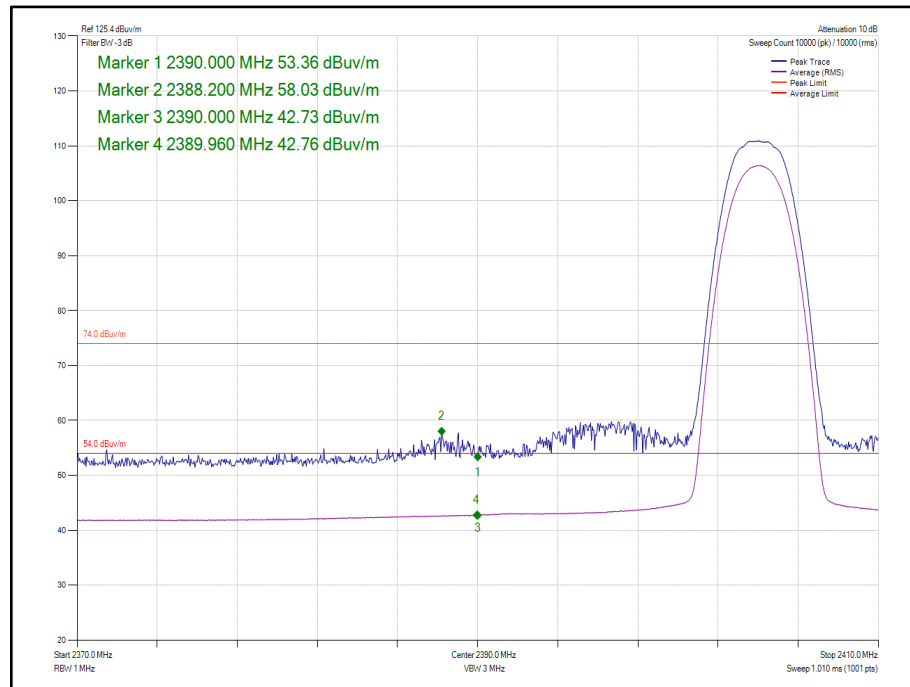
**Figure 155 - Core 0 - Static - GFSK/4DH5 - 2404 MHz - Band Edge Frequency 2390.0 MHz**



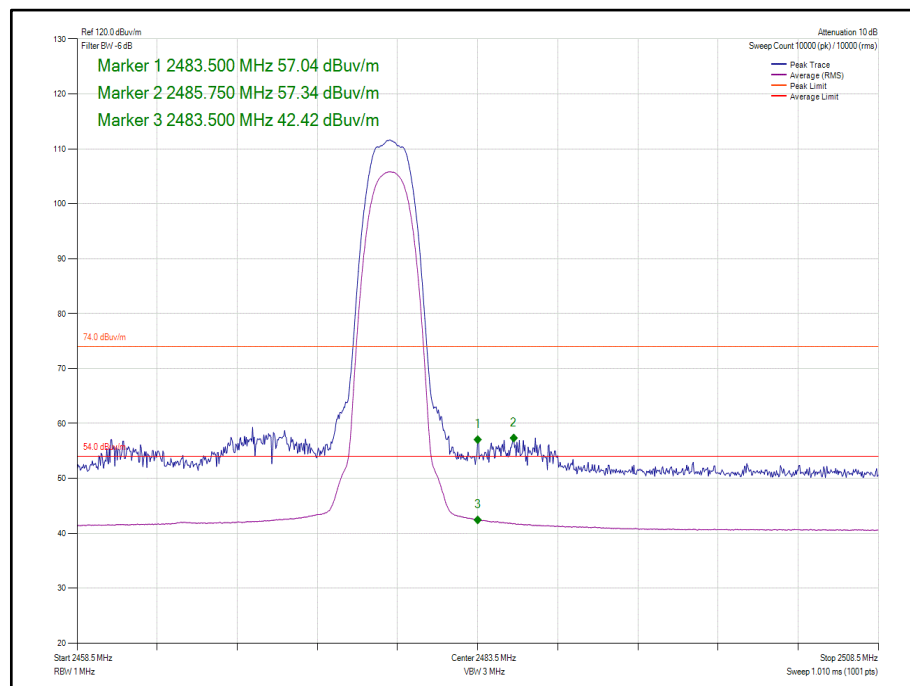
**Figure 156 - Core 0 - Static - GFSK/4DH5 - 2478 MHz - Band Edge Frequency 2483.5 MHz**

| Mode   | Modulation | Core | Packet Type | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|--------|------------|------|-------------|--------------------|---------------------------|---------------------|------------------------|
| Static | GFSK       | 1    | 4DH5        | 2404               | 2390.0                    | 58.03               | 42.76                  |
| Static | GFSK       | 1    | 4DH5        | 2478               | 2483.5                    | 57.34               | 42.42                  |

**Table 115 - Restricted Band Edge Results**



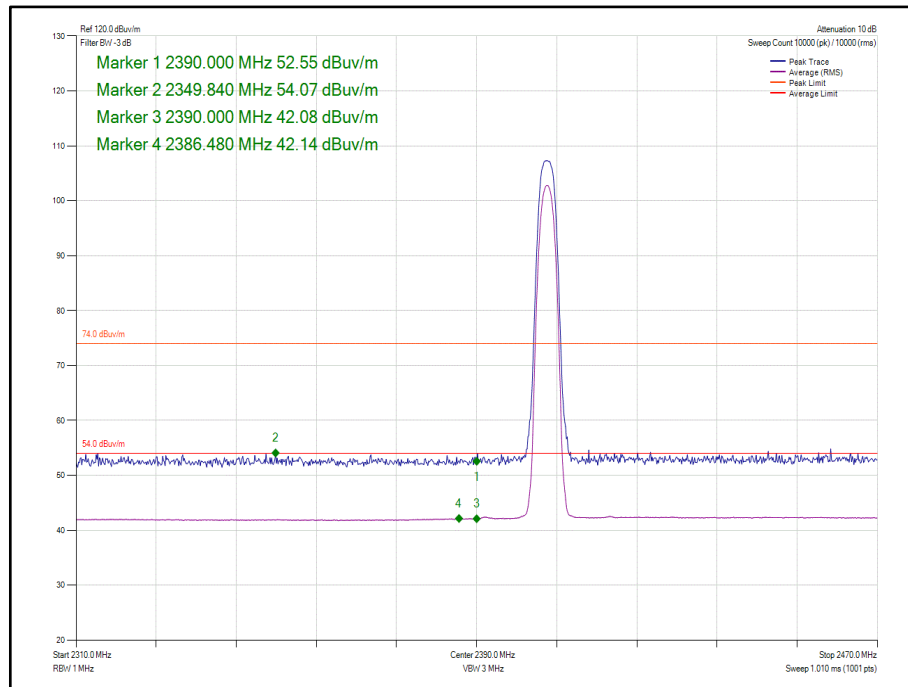
**Figure 157 - Core 1 - Static - GFSK/4DH5 - 2404 MHz - Band Edge Frequency 2390.0 MHz**



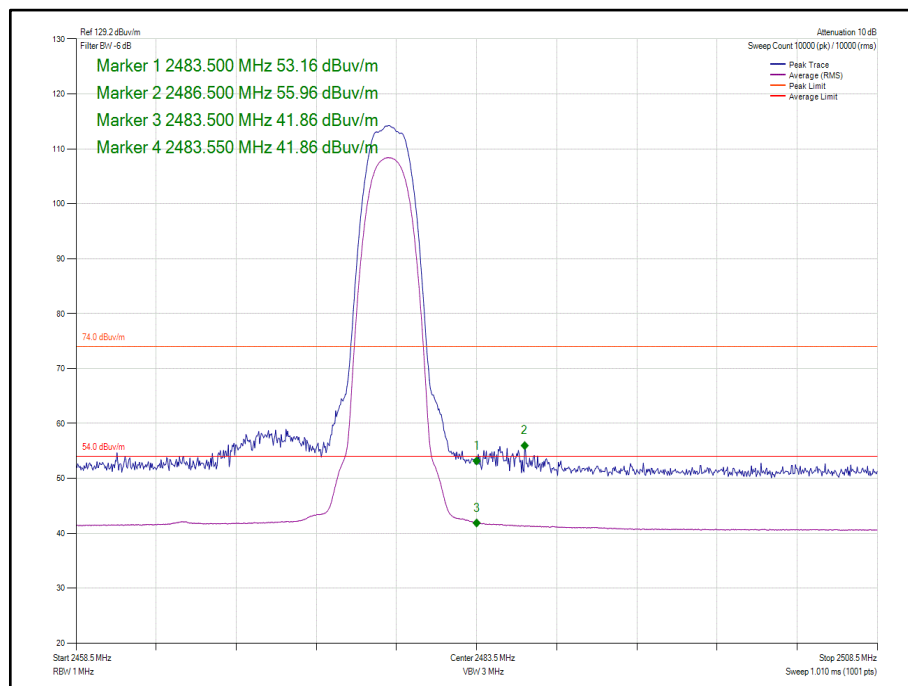
**Figure 158 - Core 1 - Static - GFSK/4DH5 - 2478 MHz - Band Edge Frequency 2483.5 MHz**

| Mode   | Modulation | Core 0-1 | Packet Type | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|--------|------------|----------|-------------|--------------------|---------------------------|---------------------|------------------------|
| Static | GFSK       | 0-1,     | 4DH5        | 2404               | 2390.0                    | 54.07               | 42.14                  |
| Static | GFSK       | 0-1      | 4DH5        | 2478               | 2483.5                    | 55.96               | 41.86                  |

**Table 116 - Restricted Band Edge Results**



**Figure 159 - Core 0-1 - Static - GFSK/4DH5 - 2404 MHz - Band Edge Frequency 2390.0 MHz**

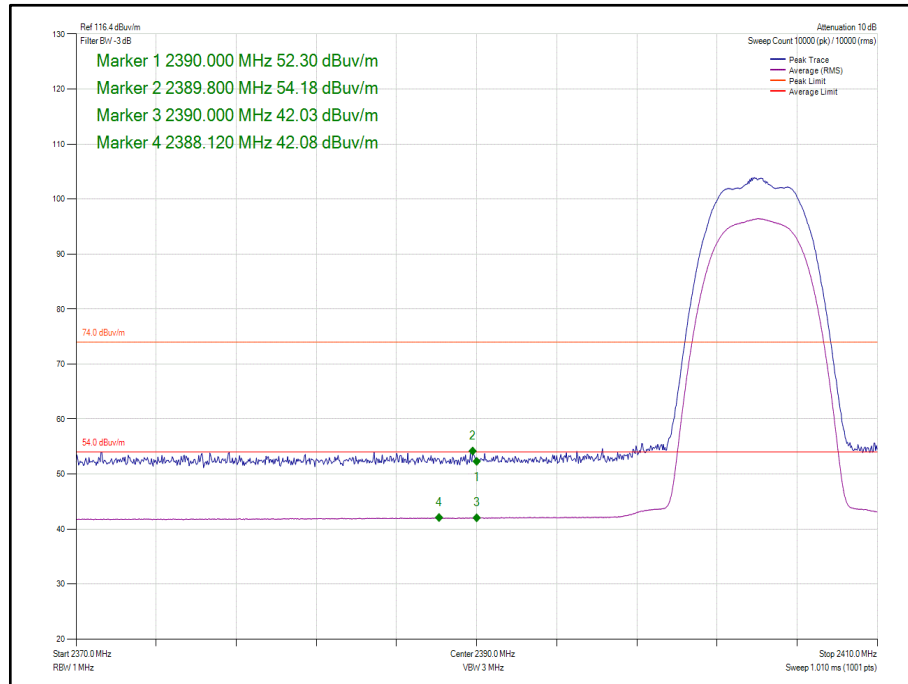


**Figure 160 - Core 0-1 - Static - GFSK/4DH5 - 2478 MHz - Band Edge Frequency 2483.5 MHz**

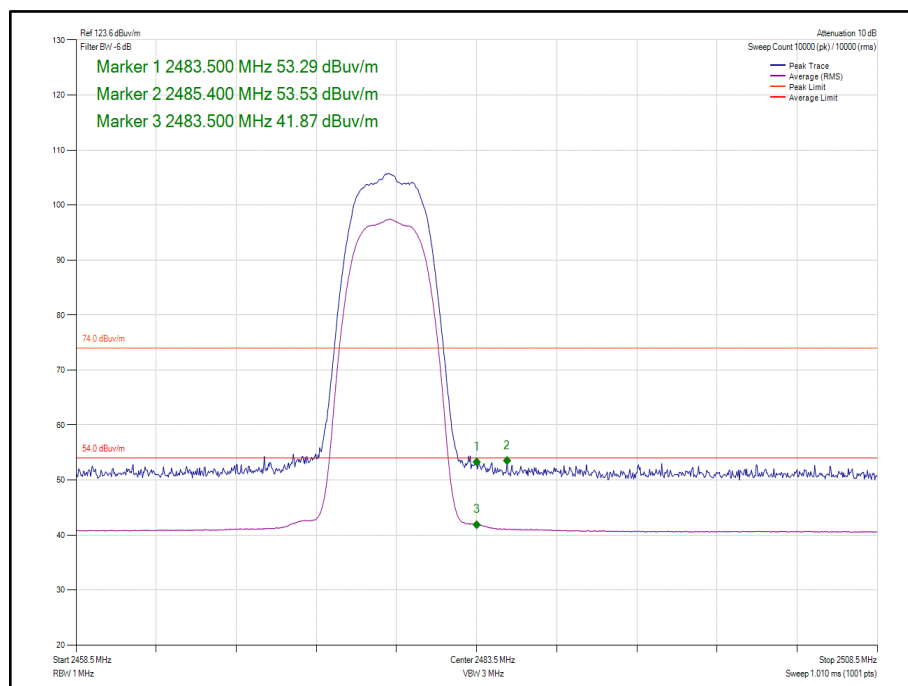
## HDR8

| Mode   | Modulation | Core | Packet Type | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|--------|------------|------|-------------|--------------------|---------------------------|---------------------|------------------------|
| Static | GFSK       | 0    | 8DH5        | 2404               | 2390.0                    | 54.18               | 42.08                  |
| Static | GFSK       | 0    | 8DH5        | 2478               | 2483.5                    | 53.53               | 41.87                  |

**Table 117 - Restricted Band Edge Results**



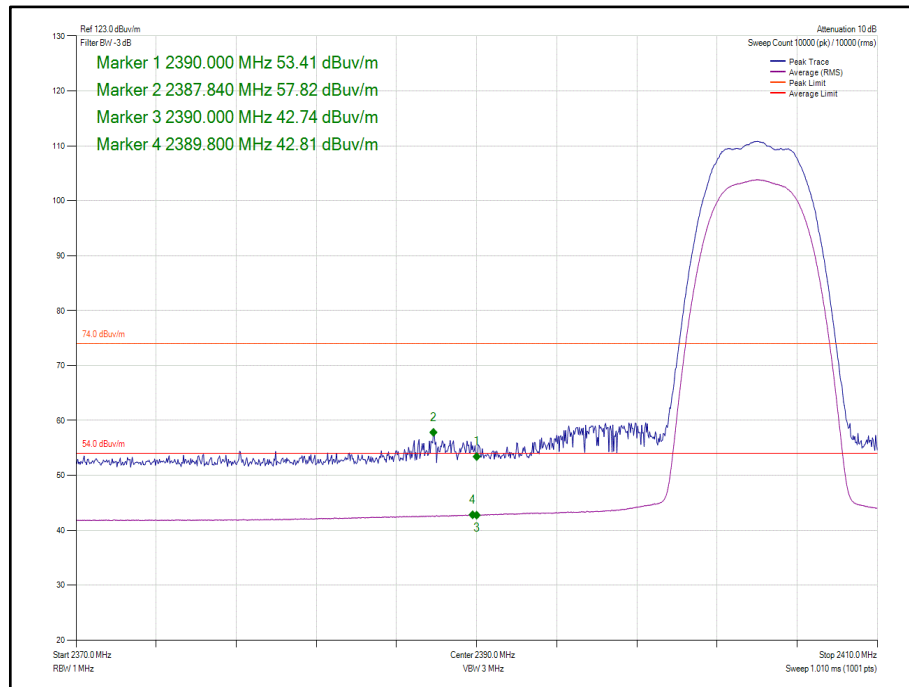
**Figure 161 - Core 0 - Static - GFSK/8DH5 - 2404 MHz - Band Edge Frequency 2390.0 MHz**



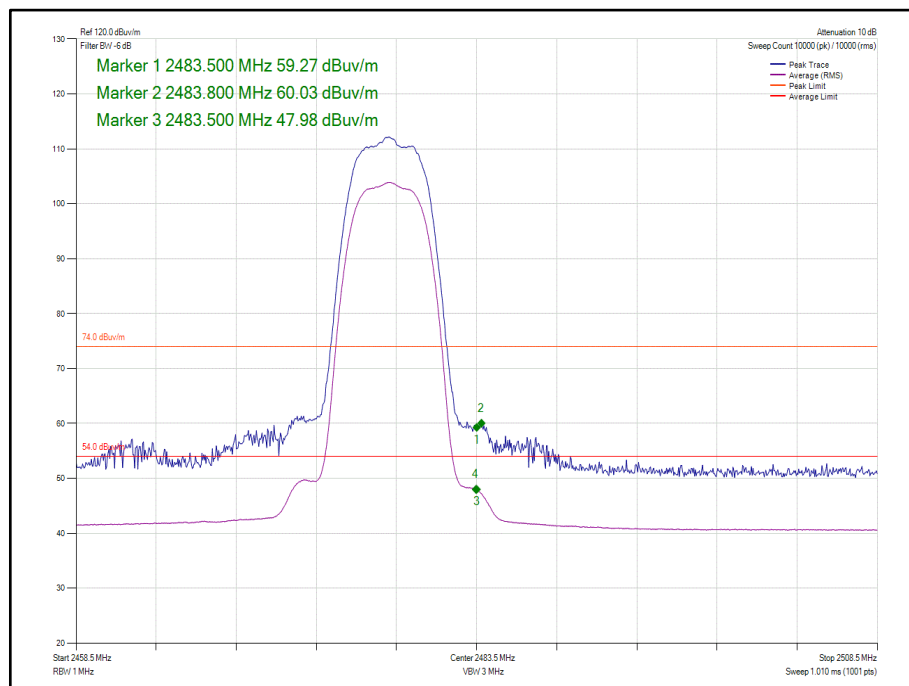
**Figure 162 - Core 0 - Static - GFSK/8DH5 - 2478 MHz - Band Edge Frequency 2483.5 MHz**

| Mode   | Modulation | Core | Packet Type | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|--------|------------|------|-------------|--------------------|---------------------------|---------------------|------------------------|
| Static | GFSK       | 1    | 8DH5        | 2404               | 2390.0                    | 57.82               | 42.81                  |
| Static | GFSK       | 1    | 8DH5        | 2478               | 2483.5                    | 60.03               | 47.98                  |

**Table 118 - Restricted Band Edge Results**



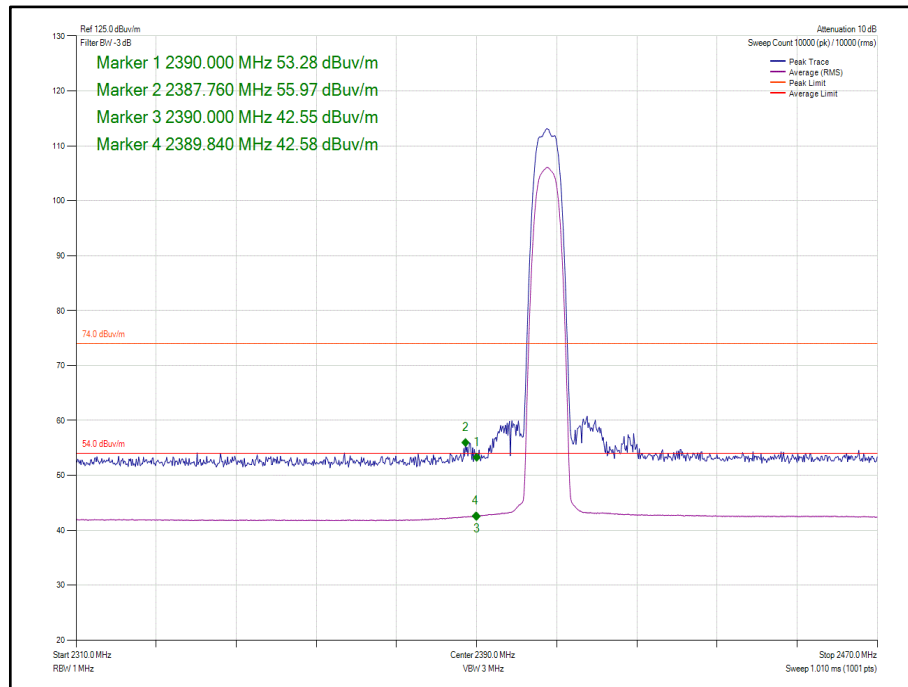
**Figure 163- Core 1 - Static - GFSK/8DH5 - 2404 MHz - Band Edge Frequency 2390.0 MHz**



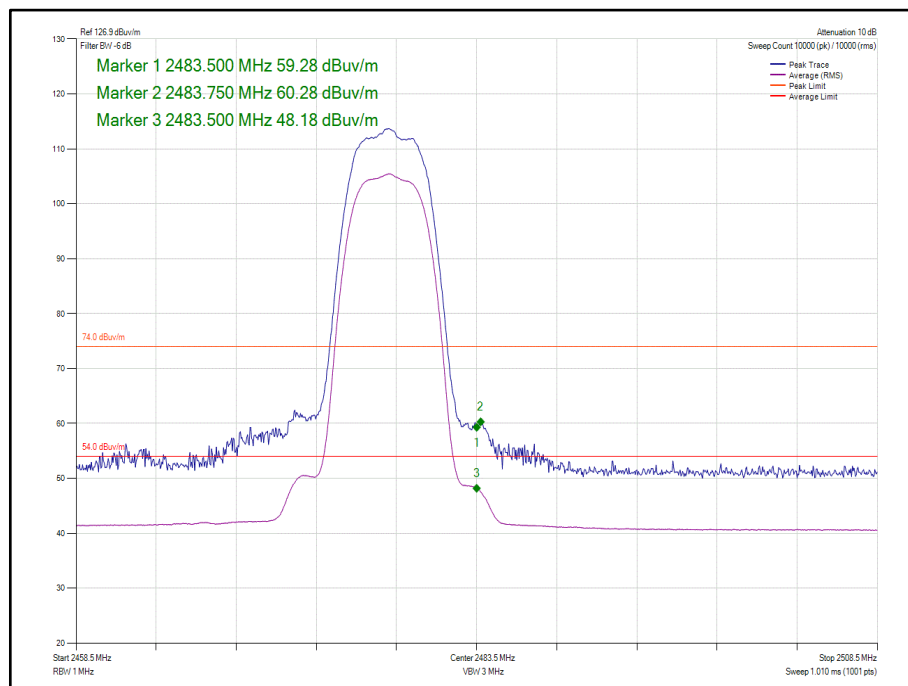
**Figure 164 - Core 1 - Static - GFSK/8DH5 - 2478 MHz - Band Edge Frequency 2483.5 MHz**

| Mode   | Modulation | Core | Packet Type | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|--------|------------|------|-------------|--------------------|---------------------------|---------------------|------------------------|
| Static | GFSK       | 0-1  | 8DH5        | 2404               | 2390.0                    | 55.97               | 42.58                  |
| Static | GFSK       | 0-1  | 8DH5        | 2478               | 2483.5                    | 60.28               | 48.18                  |

**Table 119 - Restricted Band Edge Results**



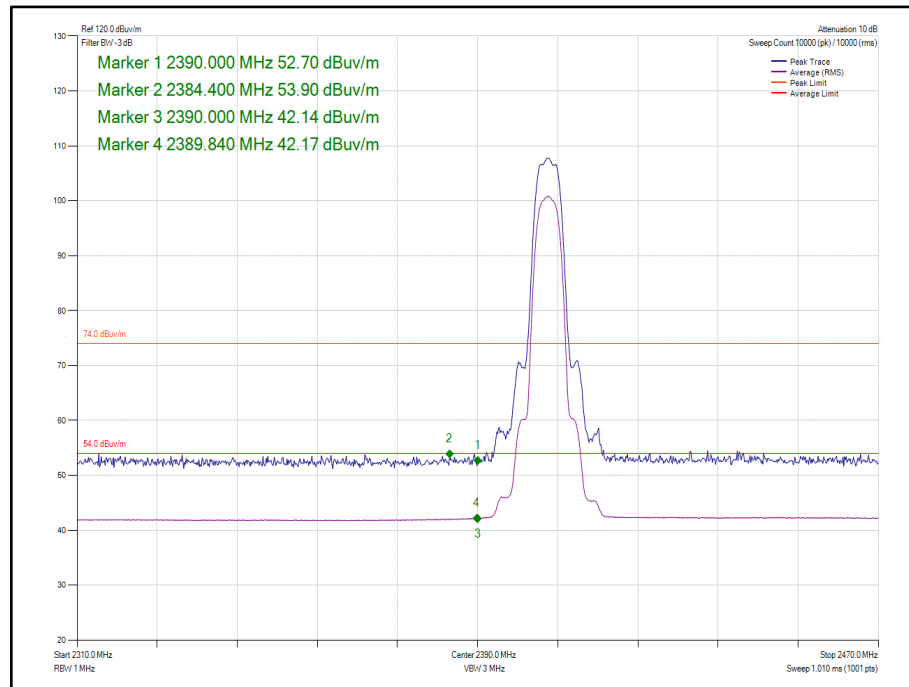
**Figure 165- Core 0-1 - Static - GFSK/8DH5 - 2404 MHz - Band Edge Frequency 2390.0 MHz**



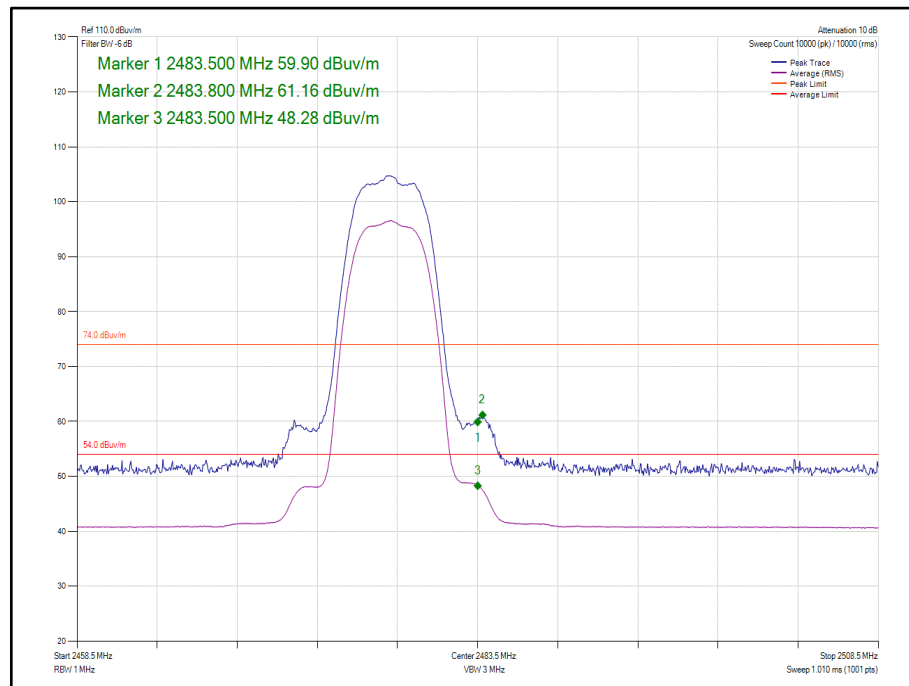
**Figure 166 - Core 0-1 - Static - GFSK/8DH5 - 2478 MHz - Band Edge Frequency 2483.5 MHz**

| Mode   | Modulation | Core | Packet Type | Tx Frequency (MHz) | Band Edge Frequency (MHz) | Peak Level (dBμV/m) | Average Level (dBμV/m) |
|--------|------------|------|-------------|--------------------|---------------------------|---------------------|------------------------|
| Static | GFSK       | 2    | 8DH5        | 2404               | 2390.0                    | 53.90               | 42.17                  |
| Static | GFSK       | 2    | 8DH5        | 2478               | 2483.5                    | 61.16               | 48.28                  |

**Table 120 - Restricted Band Edge Results**



**Figure 167- Core 2 - Static - GFSK/8DH5 - 2404 MHz - Band Edge Frequency 2390.0 MHz**



**Figure 168 - Core 2 - Static - GFSK/8DH5 - 2478 MHz - Band Edge Frequency 2483.5 MHz**



FCC 47 CFR Part 15, Limit Clause 15.209

| Frequency (MHz) | Field Strength ( $\mu\text{V}/\text{m}$ at 3 m) |
|-----------------|-------------------------------------------------|
| 30 to 88        | 100                                             |
| 88 to 216       | 150                                             |
| 216 to 960      | 200                                             |
| Above 960       | 500                                             |

**Table 121**

ISED RSS-GEN, Limit Clause 8.9

| Frequency (MHz) | Field Strength ( $\mu\text{V}/\text{m}$ at 3 m) |
|-----------------|-------------------------------------------------|
| 30 to 88        | 100                                             |
| 88 to 216       | 150                                             |
| 216 to 960      | 200                                             |
| Above 960*      | 500                                             |

**Table 122**

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