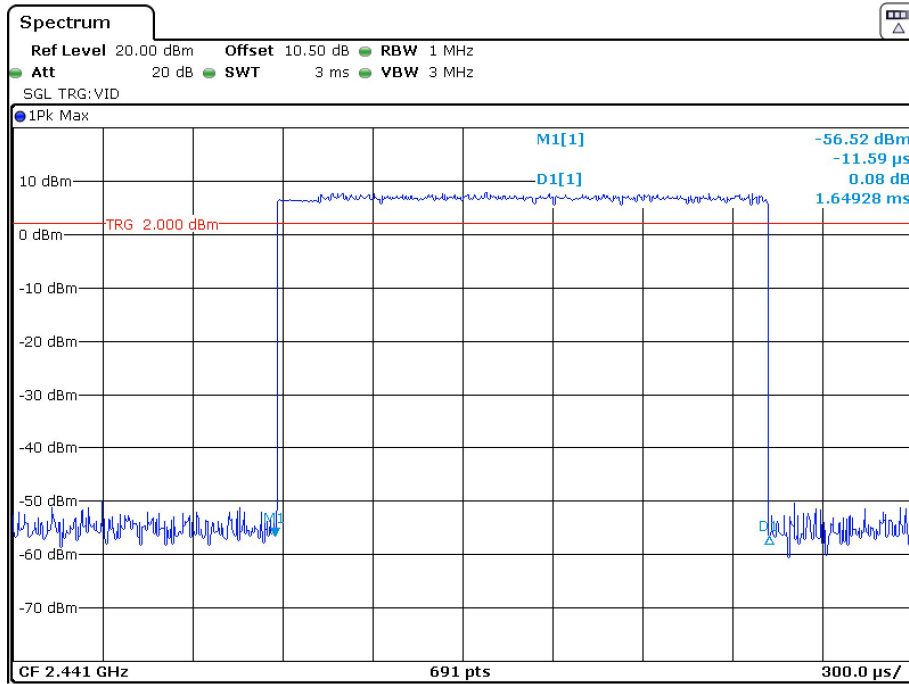
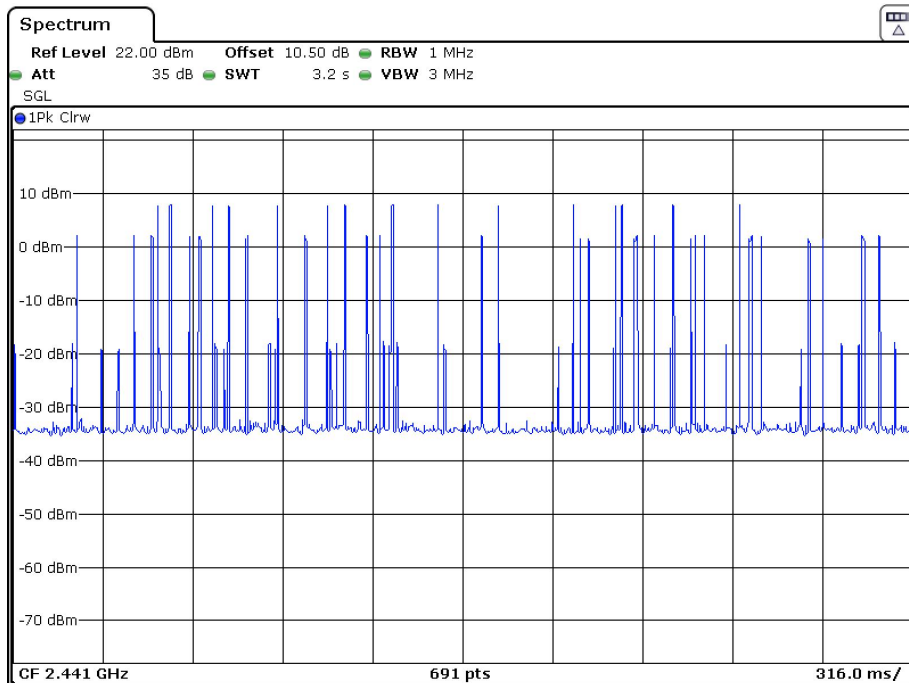


### 2DH3\_Hop

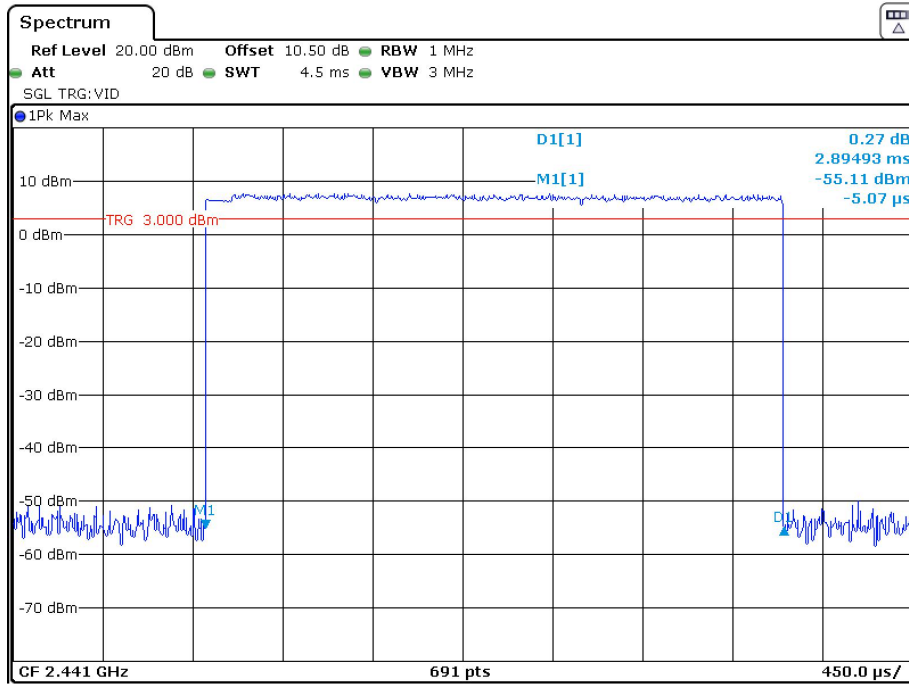


Date: 17.MAY.2022 15:01:46

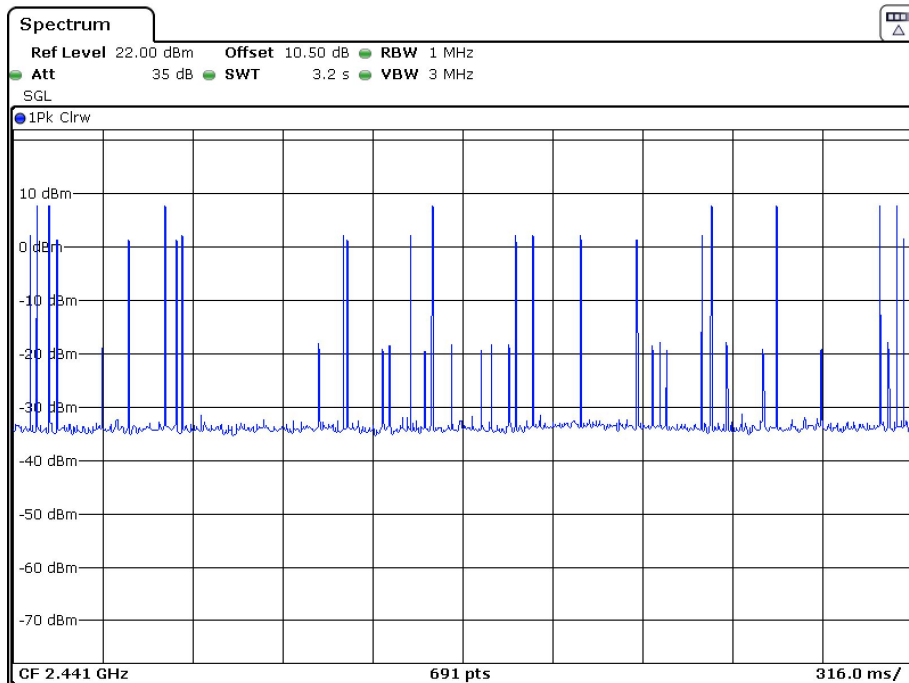


Date: 17.MAY.2022 15:40:32

### 2DH5\_Hop

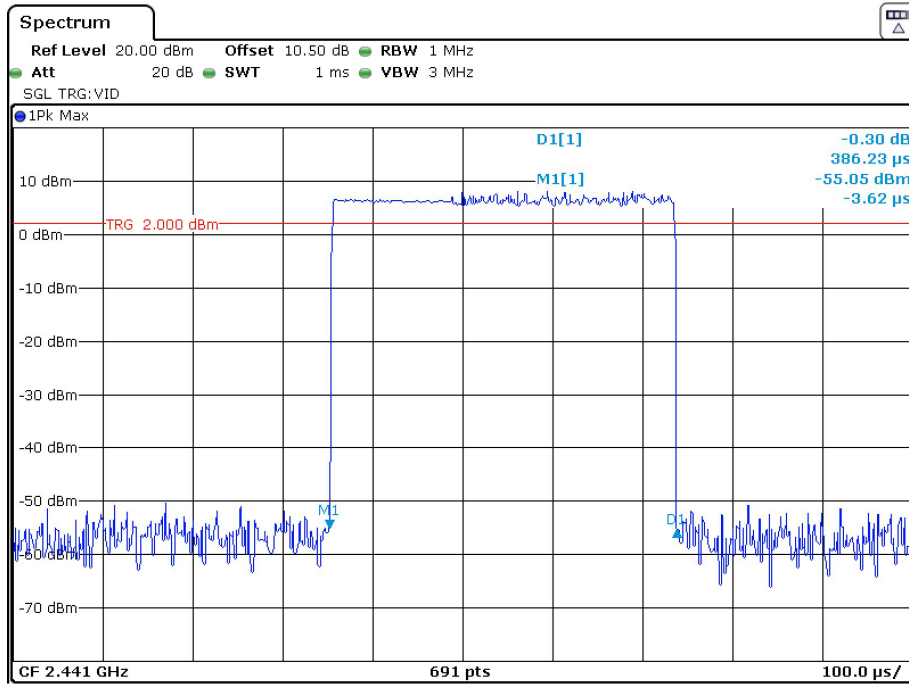


Date: 17.MAY.2022 15:07:25

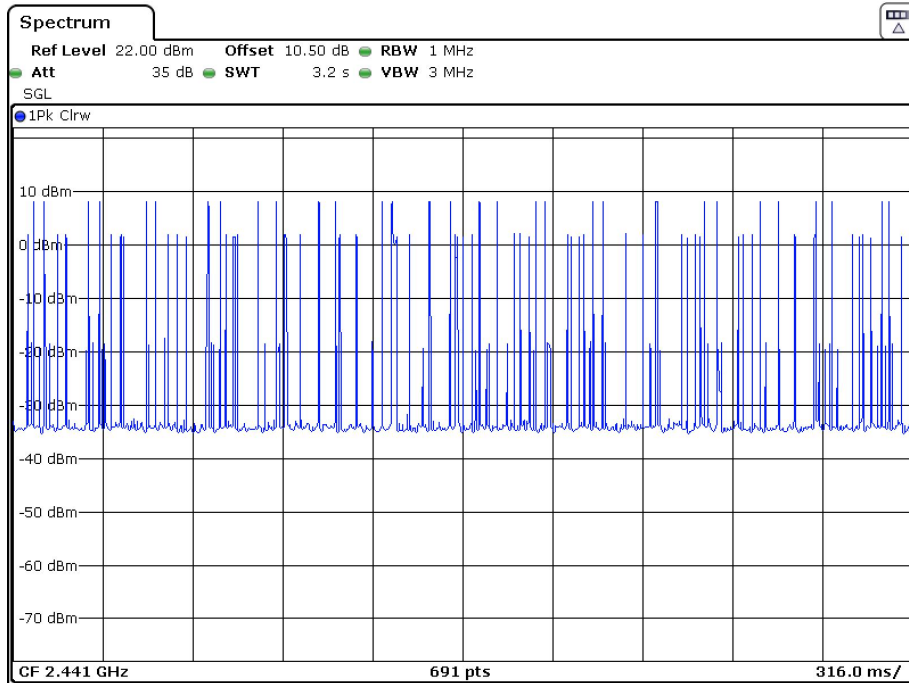


Date: 17.MAY.2022 15:39:47

### 3DH1\_Hop

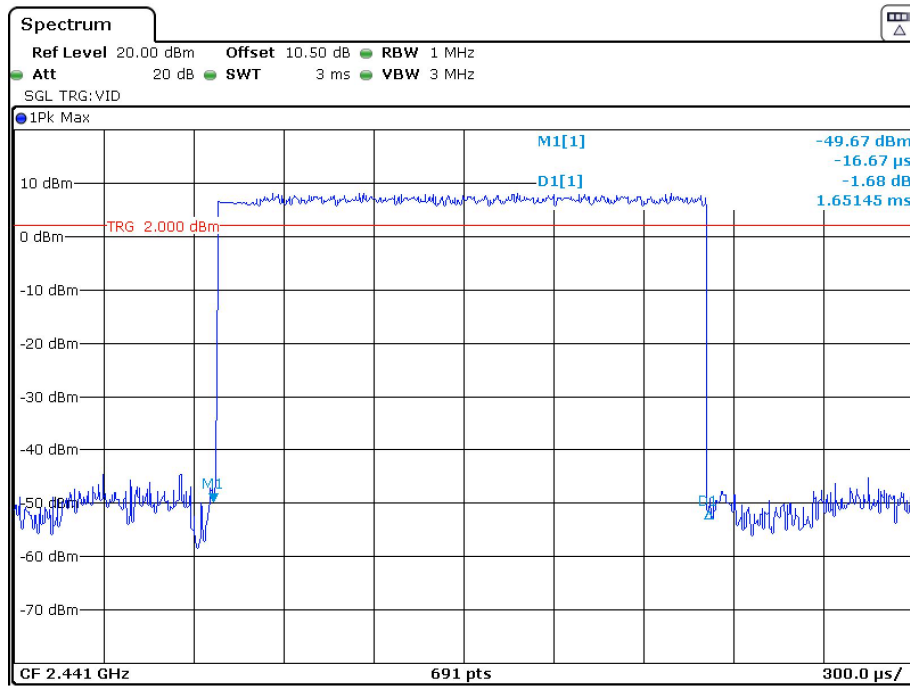


Date: 17.MAY.2022 15:12:32

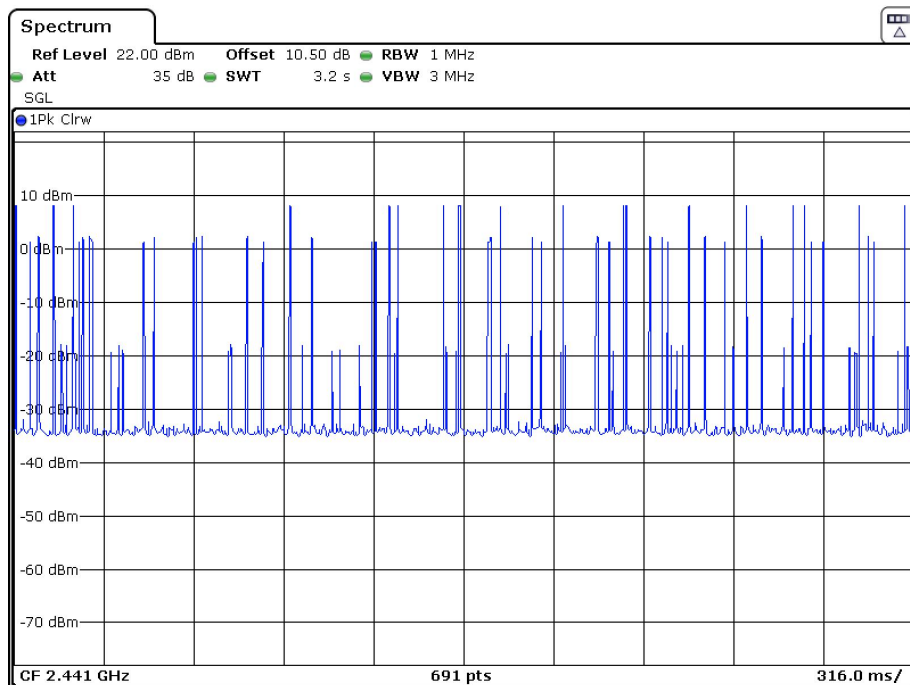


Date: 17.MAY.2022 15:39:10

### 3DH3\_Hop

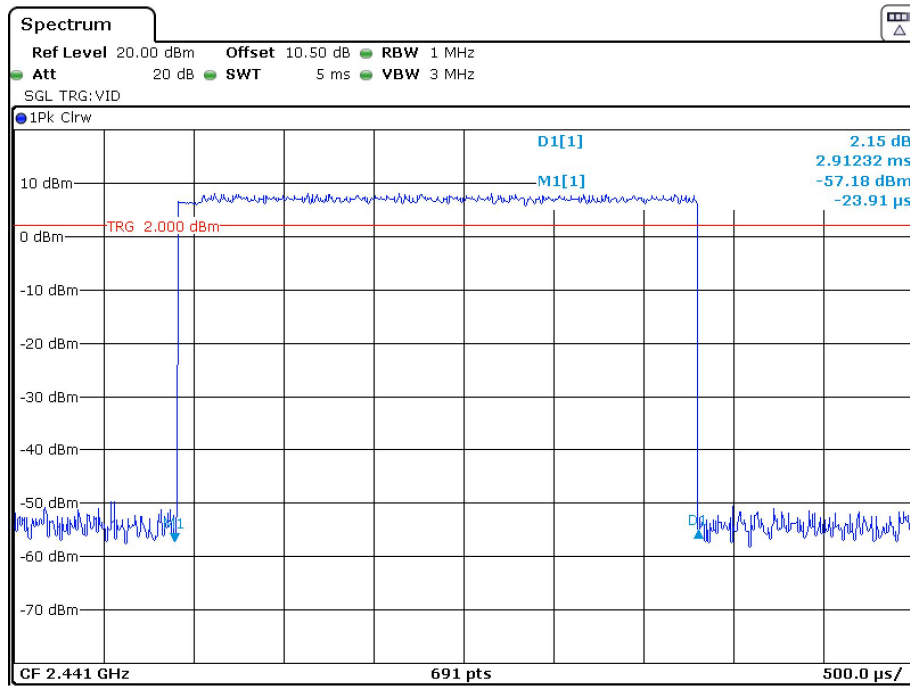


Date: 17.MAY.2022 15:21:08

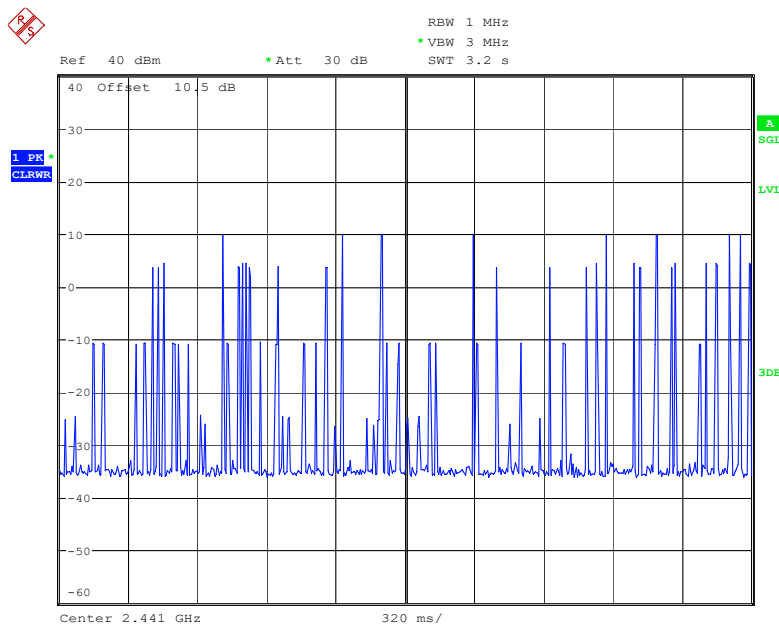


Date: 17.MAY.2022 15:38:35

### 3DH5\_Hop



Date: 17.MAY.2022 15:22:48



Date: 11.JUN.2022 09:41:52

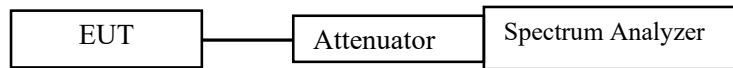
## FCC §15.247(b) (1) - PEAK OUTPUT POWER MEASUREMENT

### Applicable Standard

According to §15.247(b) (1), for frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. And for all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

### Test Procedure

1. Place the EUT on a bench and set in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to one test equipment.
3. Add a correction factor to the display.



### Test Data

#### Environmental Conditions

|                           |           |
|---------------------------|-----------|
| <b>Temperature:</b>       | 27.9 °C   |
| <b>Relative Humidity:</b> | 52 %      |
| <b>ATM Pressure:</b>      | 101.0 kPa |

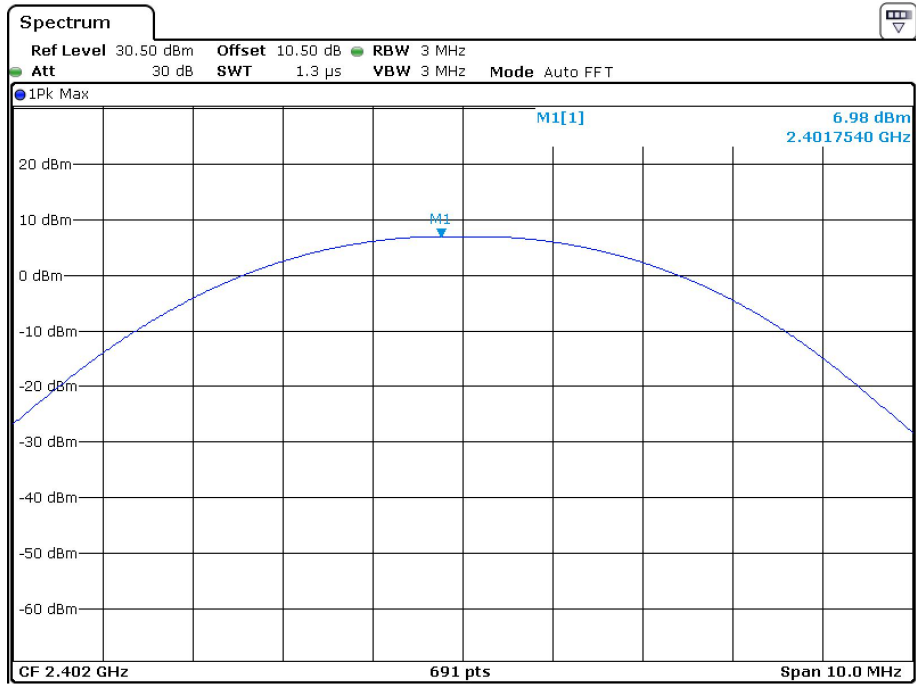
The testing was performed by Andy Yu on 2022-05-17.

EUT operation mode: Transmitting

Test Result: Compliant.

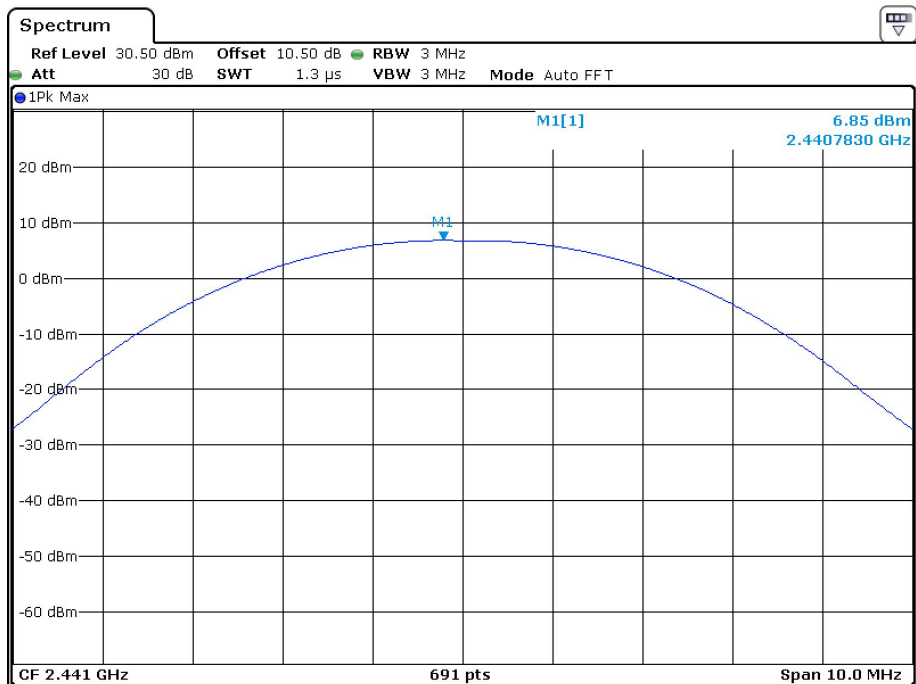
| Mode                  | Channel | Frequency (MHz) | Peak Output Power | Limit (dBm) |
|-----------------------|---------|-----------------|-------------------|-------------|
|                       |         |                 | (dBm)             |             |
| BDR (GFSK)            | Low     | 2402            | 6.98              | 21          |
|                       | Middle  | 2441            | 6.85              | 21          |
|                       | High    | 2480            | 6.52              | 21          |
| EDR ( $\pi/4$ -DQPSK) | Low     | 2402            | 8.43              | 21          |
|                       | Middle  | 2441            | 8.23              | 21          |
|                       | High    | 2480            | 7.94              | 21          |
| EDR (8DPSK)           | Low     | 2402            | 8.84              | 21          |
|                       | Middle  | 2441            | 8.65              | 21          |
|                       | High    | 2480            | 8.63              | 21          |

### DH1\_2402



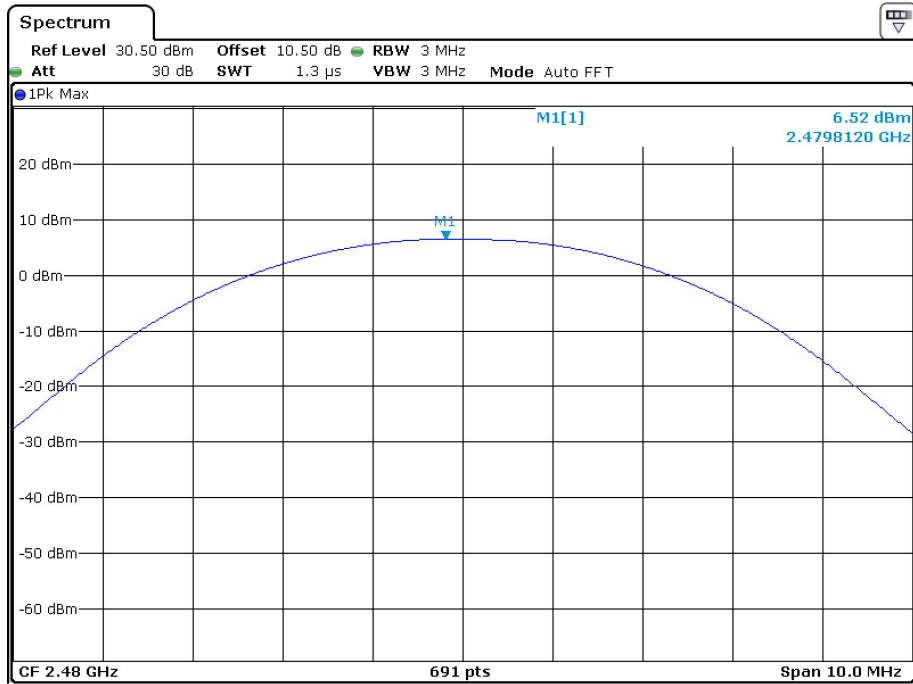
Date: 17.MAY.2022 09:18:35

### DH1\_2441



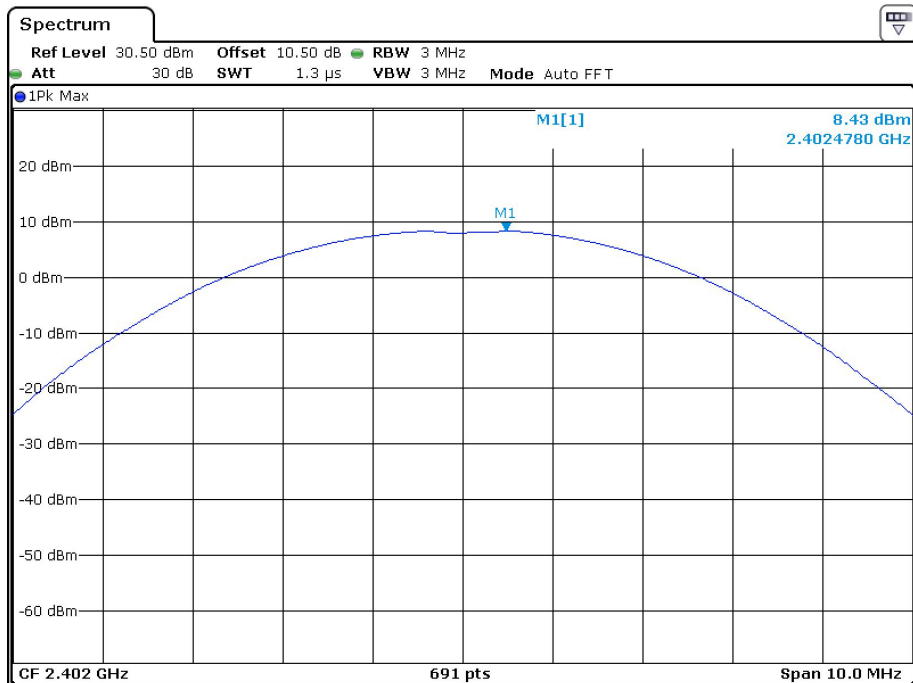
Date: 17.MAY.2022 09:24:11

### DH1\_2480



Date: 17.MAY.2022 09:25:32

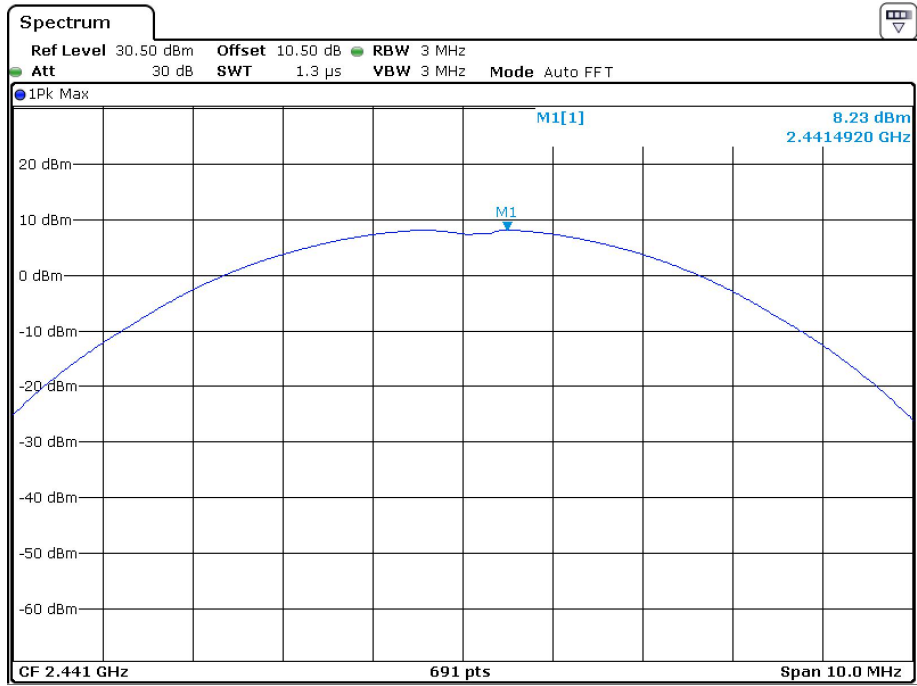
### 2DH1\_2402



Date: 17.MAY.2022 09:33:27

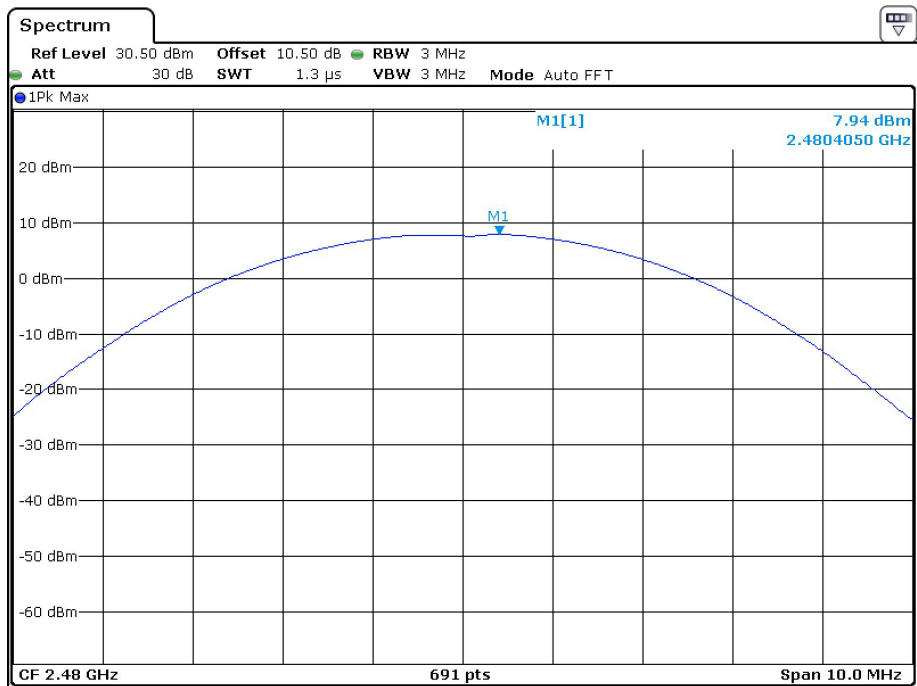


2DH1\_2441



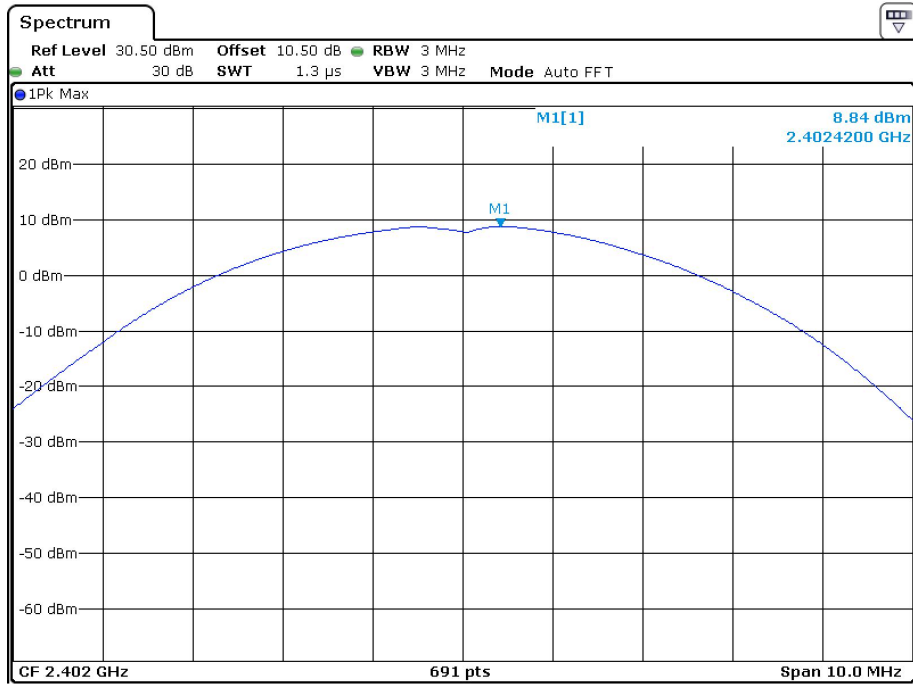
Date: 17.MAY.2022 09:36:39

2DH1\_2480



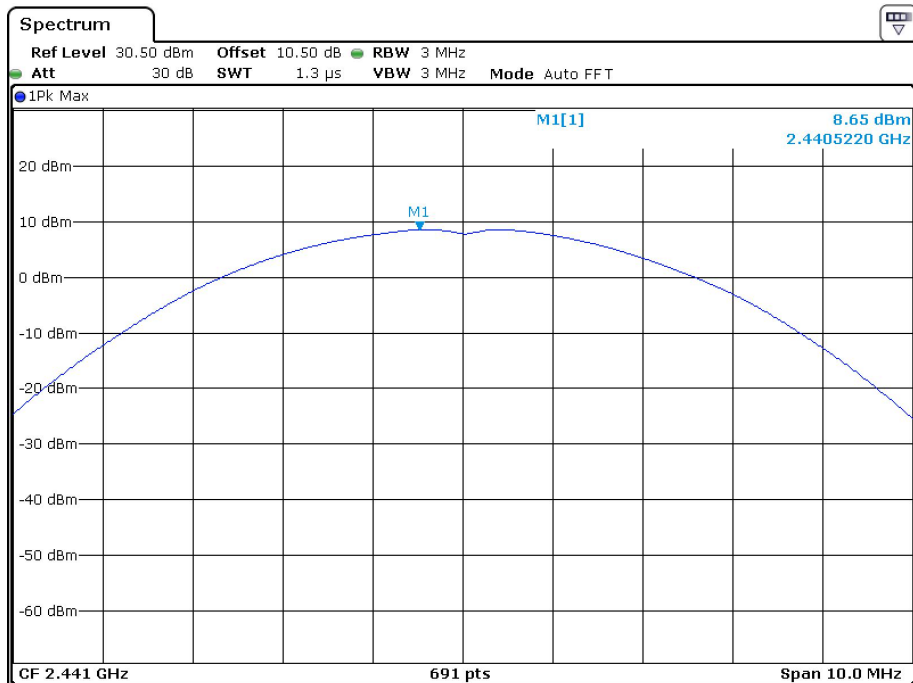
Date: 17.MAY.2022 09:38:58

3DH1\_2402



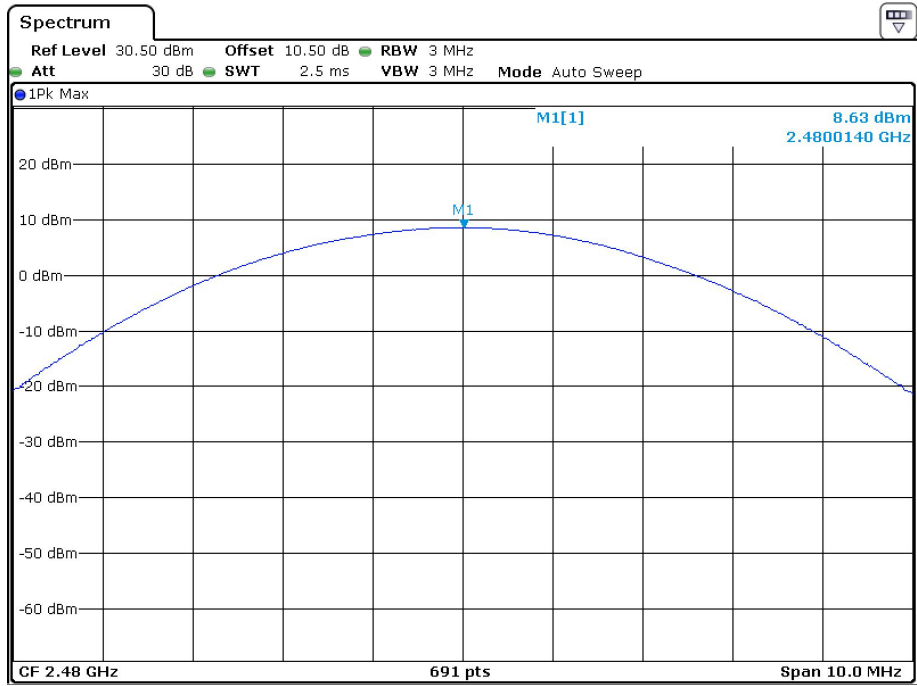
Date: 17.MAY.2022 09:41:25

3DH1\_2441



Date: 17.MAY.2022 09:42:52

3DH1\_2480



Date: 17.MAY.2022 09:44:35

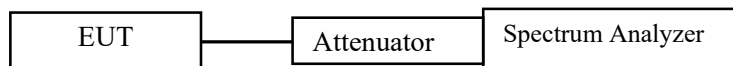
## FCC §15.247(d) - BAND EDGES TESTING

### Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



### Test Data

#### Environmental Conditions

|                           |           |
|---------------------------|-----------|
| <b>Temperature:</b>       | 27.9 °C   |
| <b>Relative Humidity:</b> | 52 %      |
| <b>ATM Pressure:</b>      | 101.0 kPa |

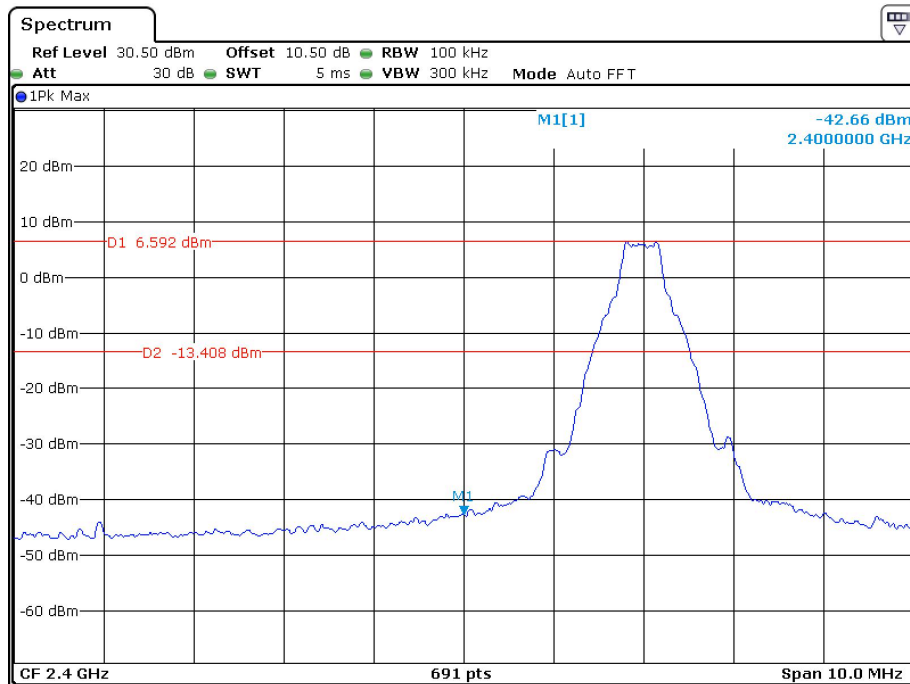
*The testing was performed by Andy Yu on 2022-05-17.*

*EUT operation mode: Transmitting*

Test Result: Compliant.

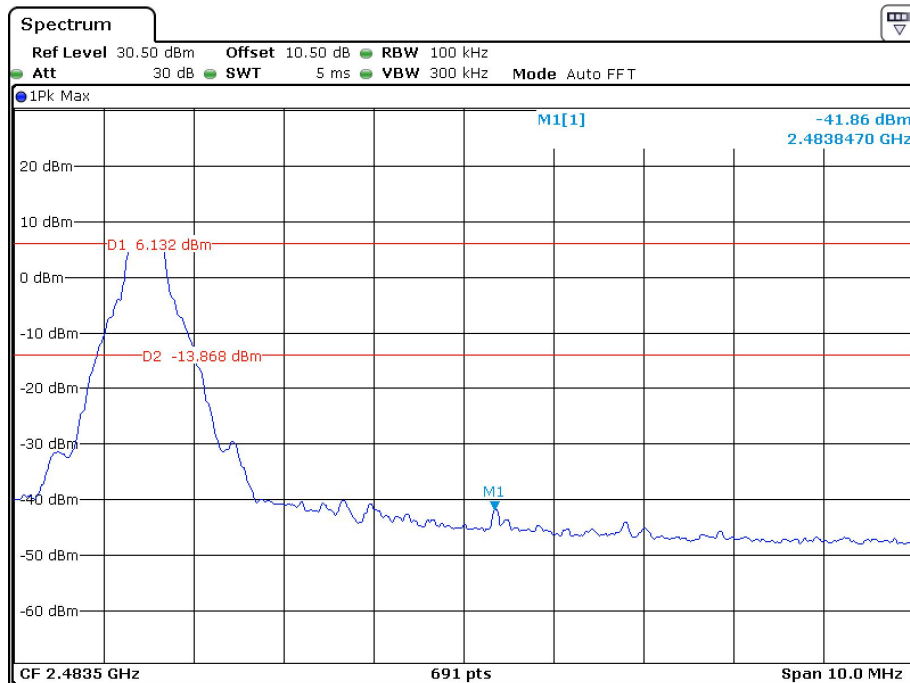
### Conducted Band Edge Result:

#### DH1\_Low\_2402MHz



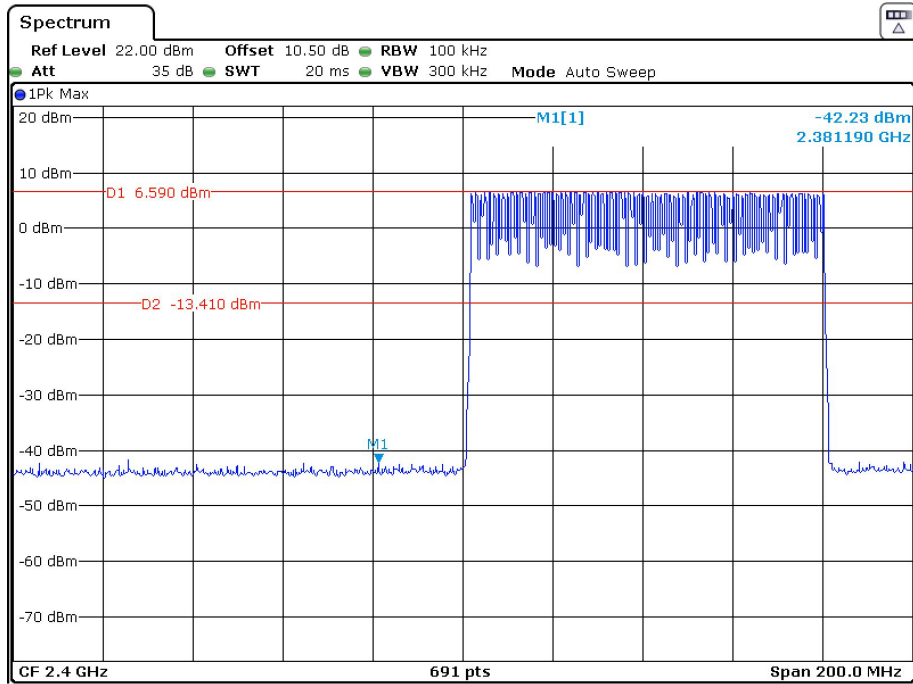
Date: 17.MAY.2022 10:16:04

#### DH1\_High\_2480MHz



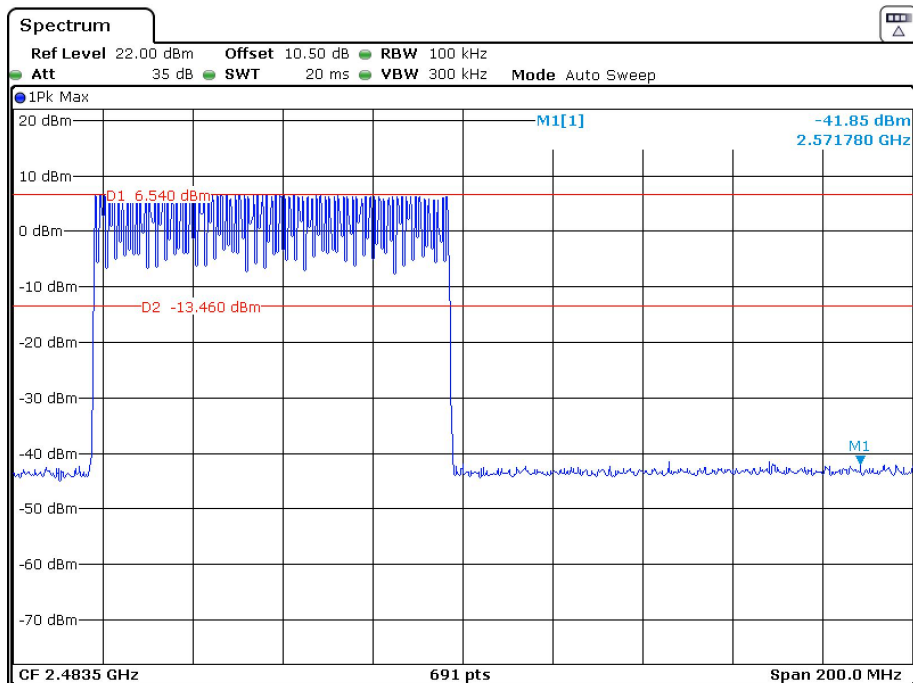
Date: 17.MAY.2022 10:18:23

### DH1\_Low\_Hop\_2402MHz



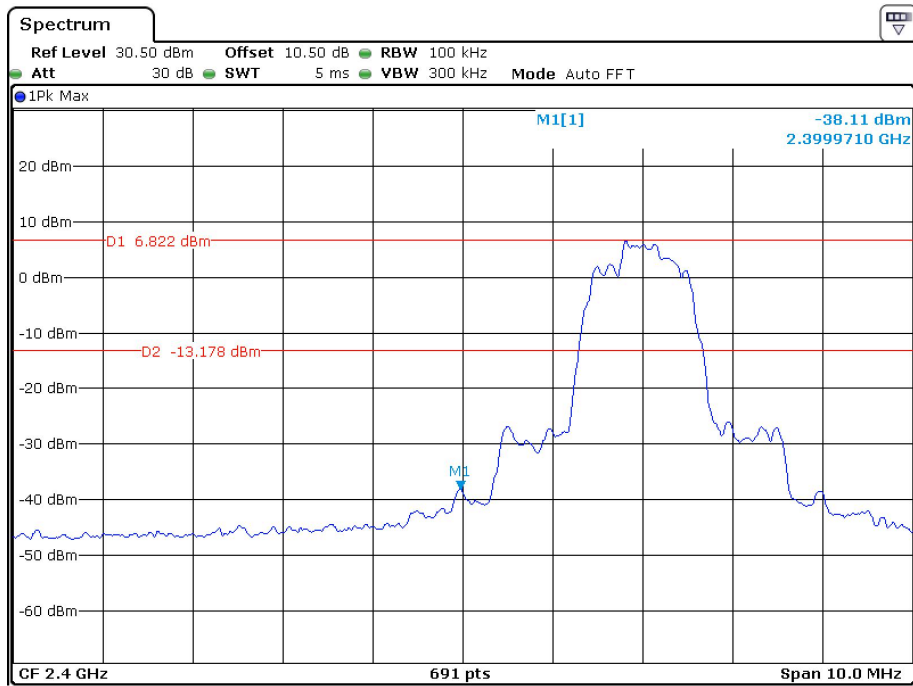
Date: 17.MAY.2022 16:10:43

### DH1\_High\_Hop\_2480MHz



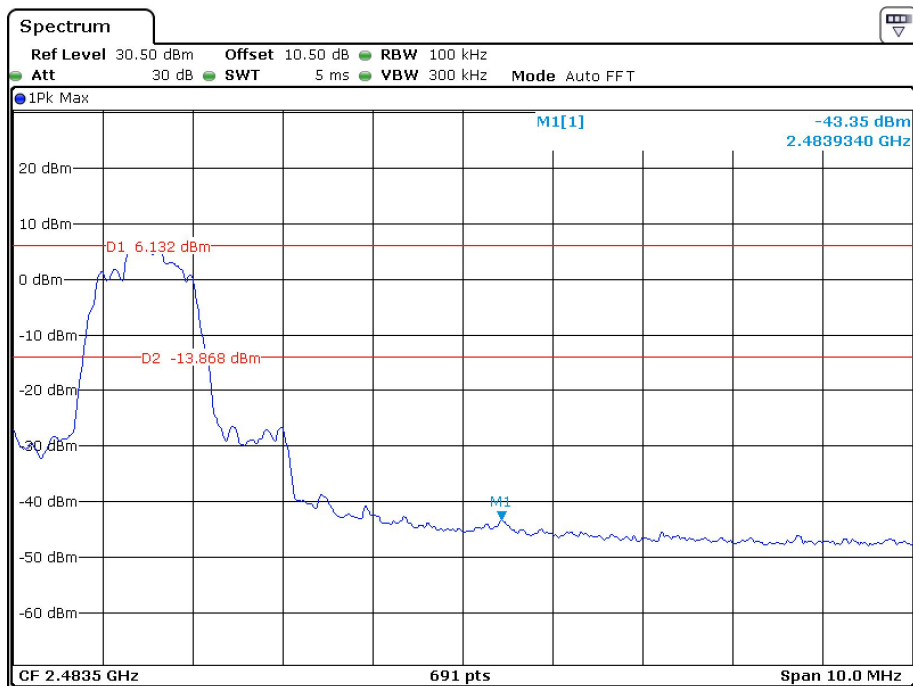
Date: 17.MAY.2022 16:16:41

### 2DH1\_Low\_2402MHz



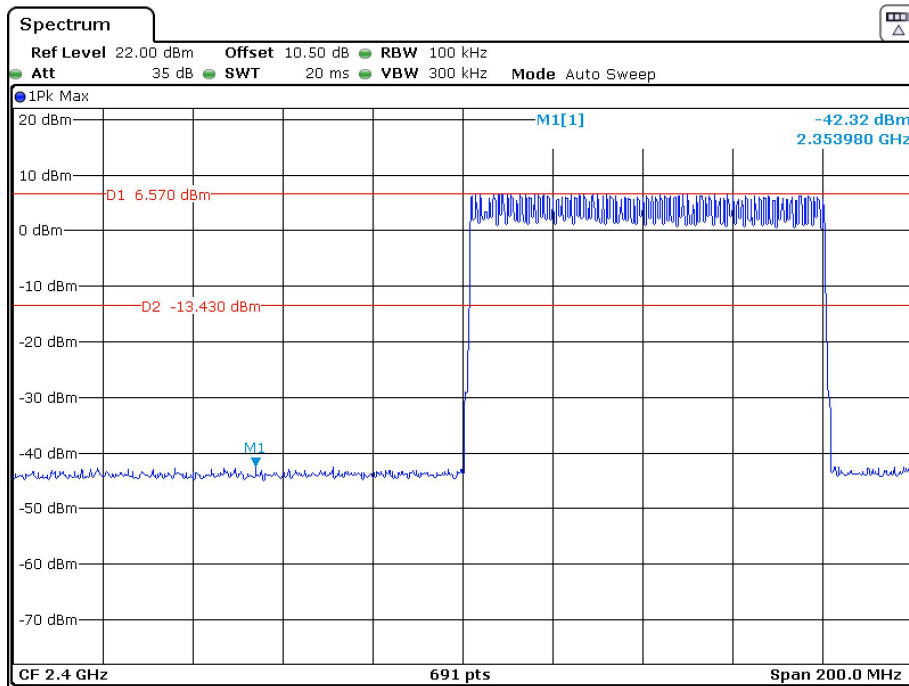
Date: 17.MAY.2022 10:12:36

### 2DH1\_High\_2480MHz

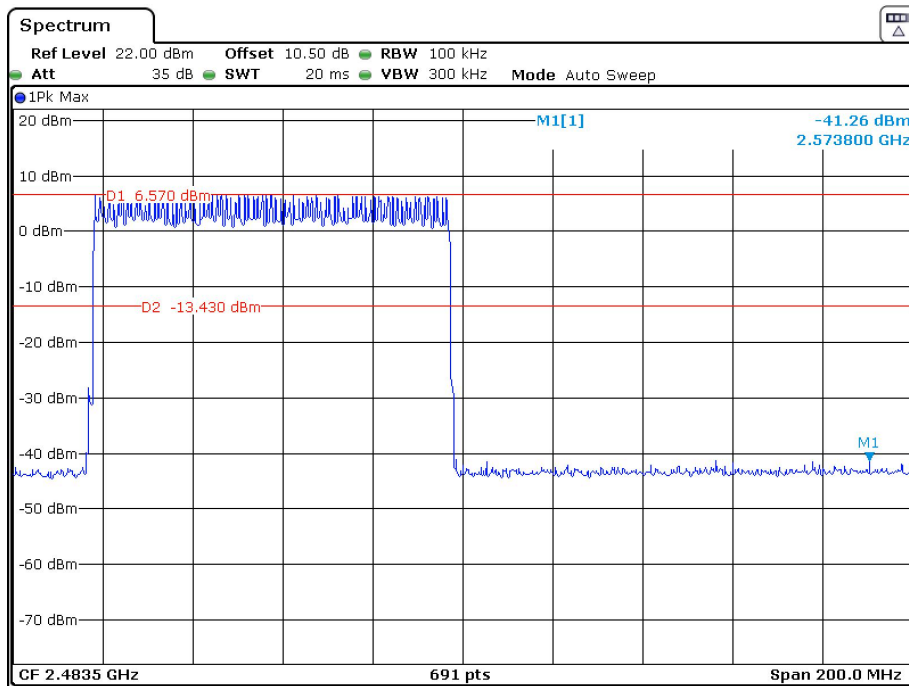


Date: 17.MAY.2022 10:08:00

### 2DH1\_Low\_Hop\_2402MHz

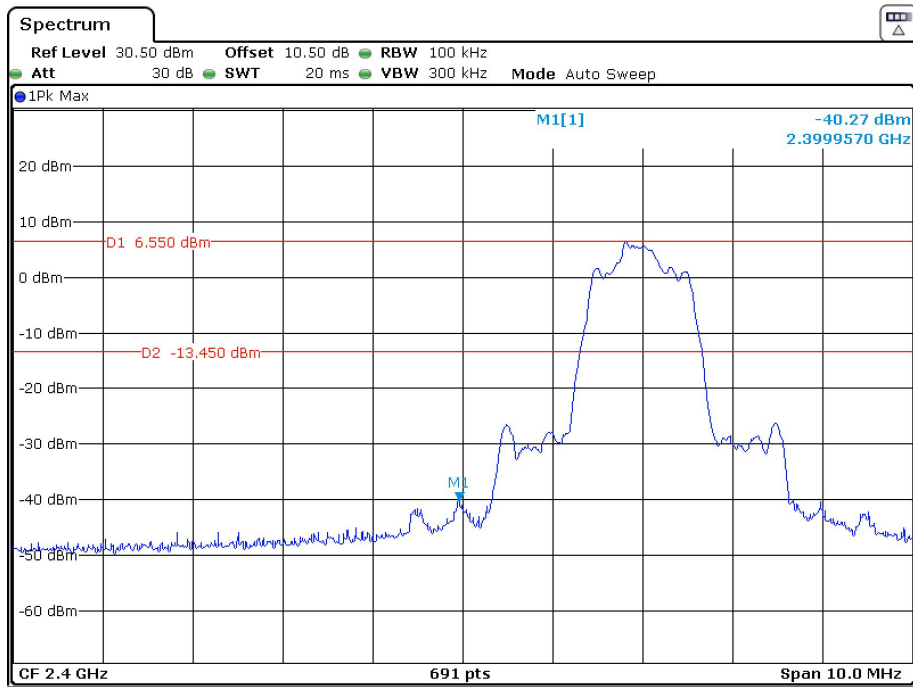


### 2DH1\_High\_Hop\_2480MHz



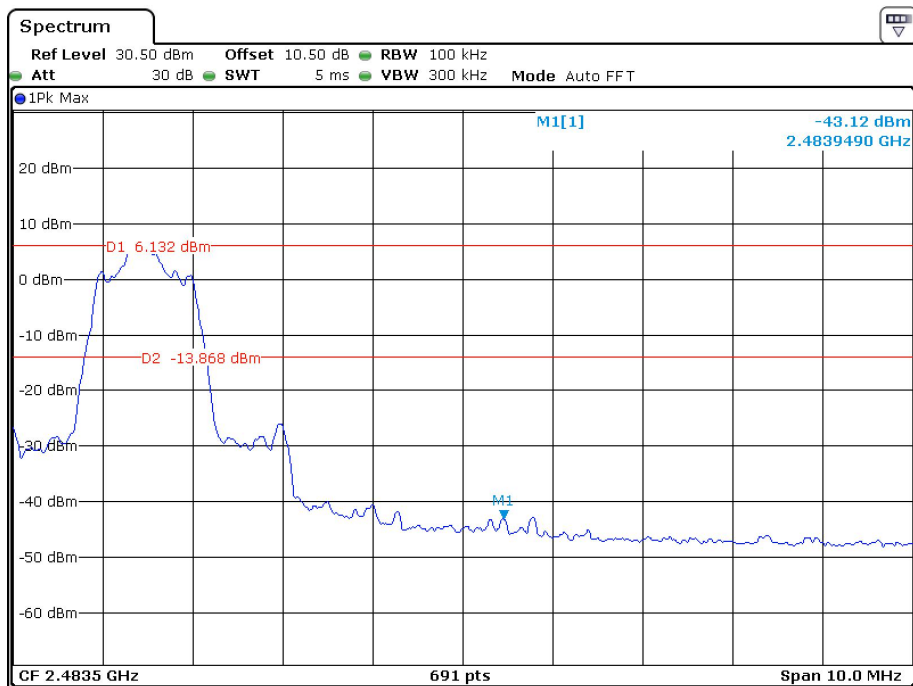


### 3DH1\_Low\_2402MHz



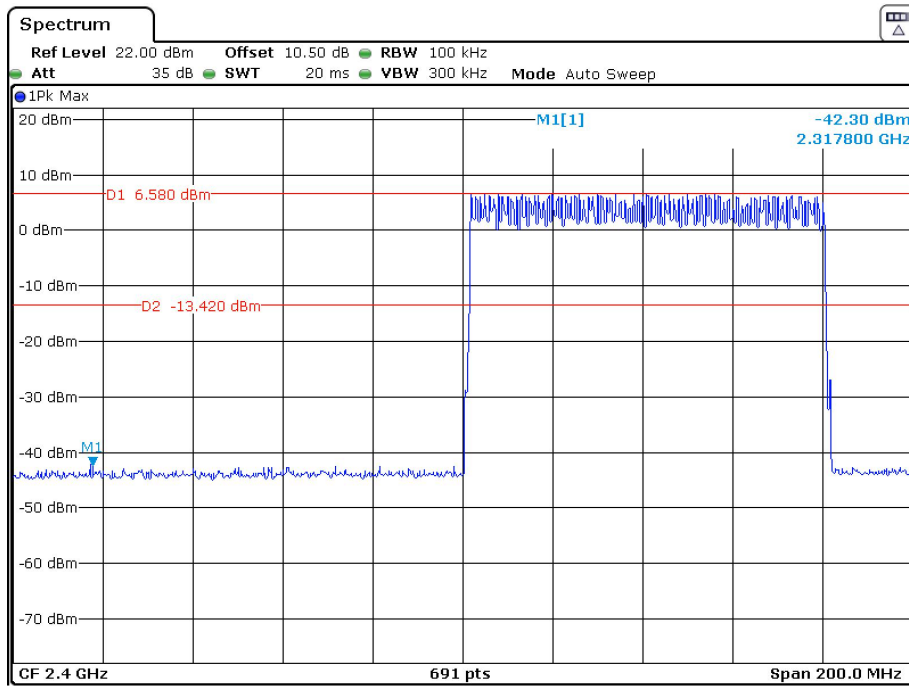
Date: 17.MAY.2022 10:55:17

### 3DH1\_High\_2480MHz



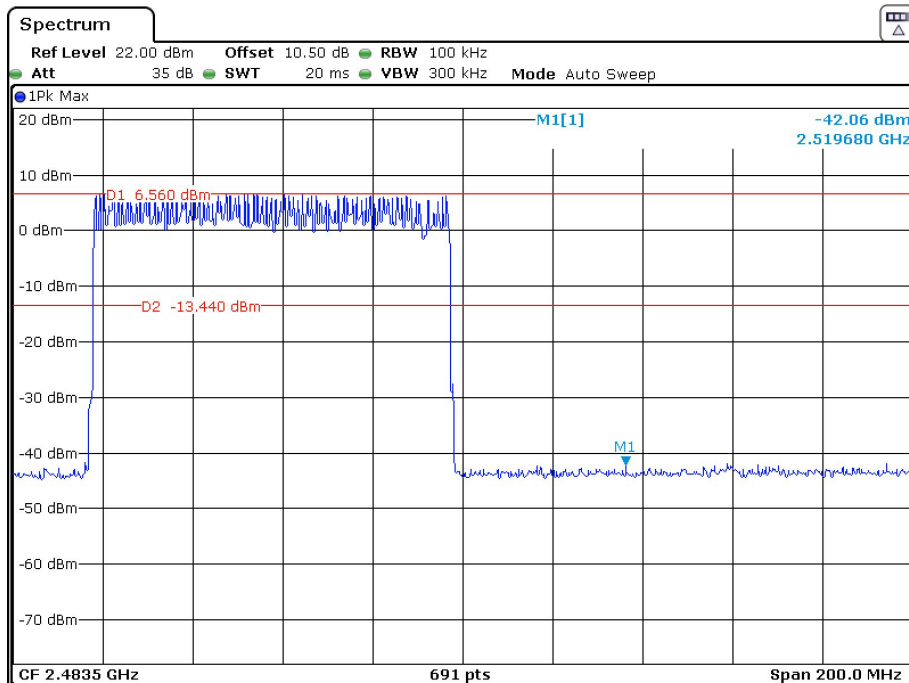
Date: 17.MAY.2022 10:23:29

### 3DH1\_Low\_Hop\_2402MHz



Date: 17.MAY.2022 16:22:41

### 3DH1\_High\_Hop\_2480MHz



Date: 17.MAY.2022 16:24:42

\*\*\*\*\* END OF REPORT \*\*\*\*\*