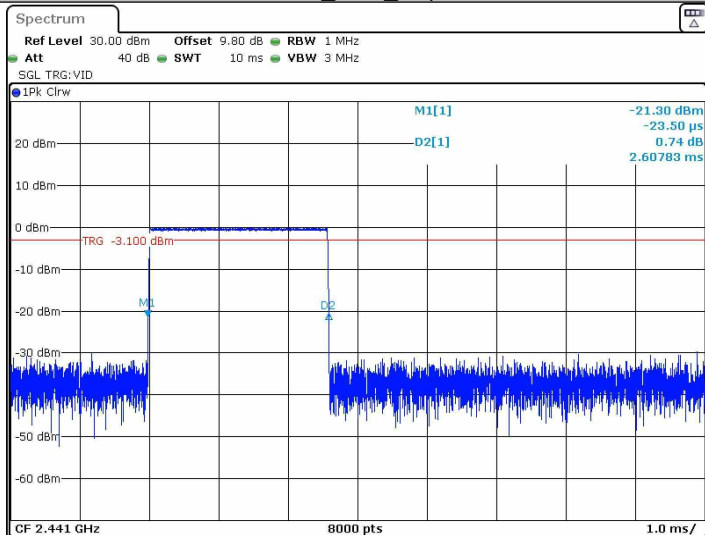
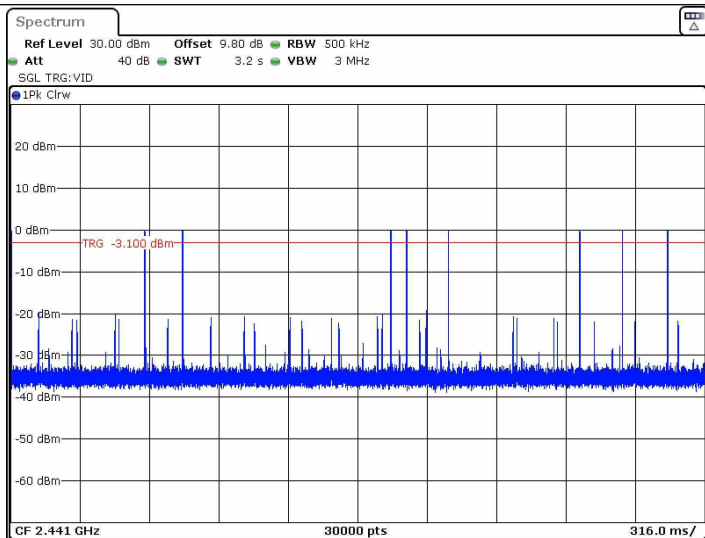


DH5\_Ant1\_Hop

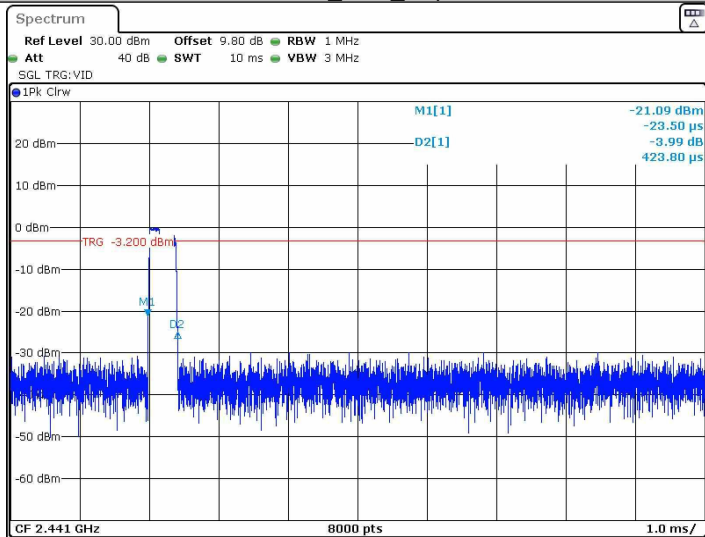


Date: 21.JAN.2022 04:00:38

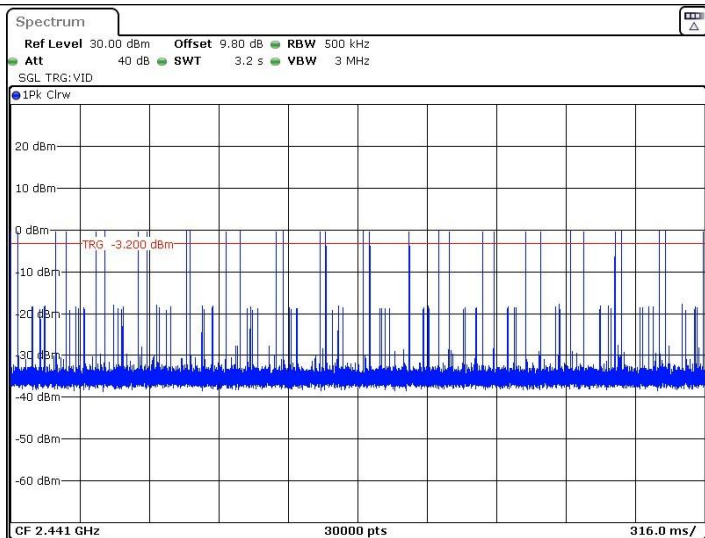


Date: 21.JAN.2022 04:00:44

2DH1\_Ant1\_Hop

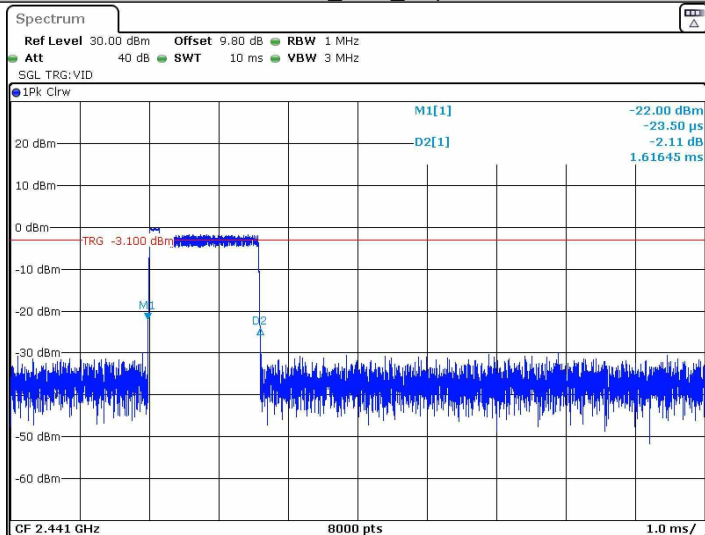


Date: 21. JAN 2022 06:17:21

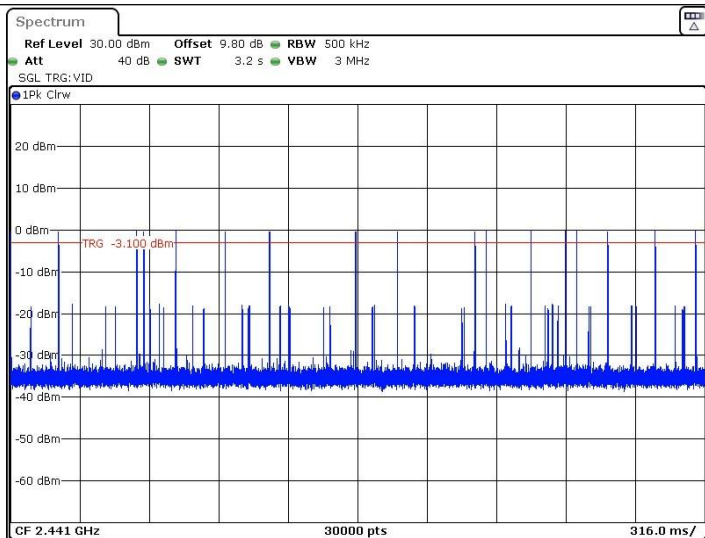


Date: 21. JAN 2022 06:17:27

2DH3\_Ant1\_Hop

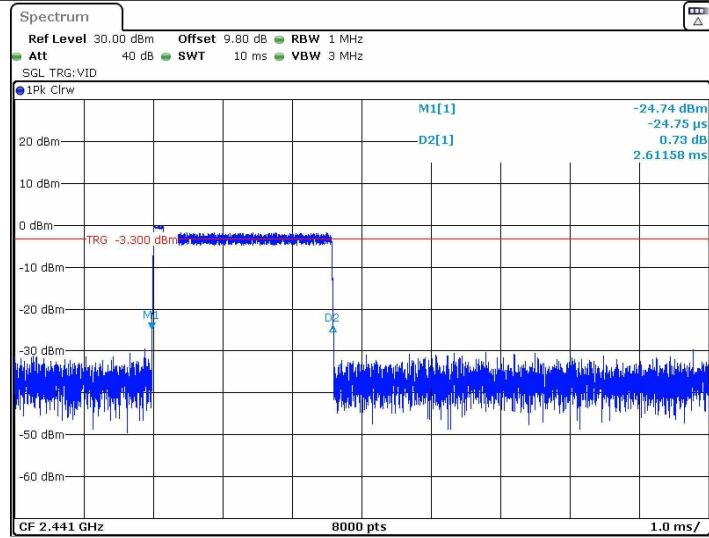


Date: 21. JAN 2022 06:20:08

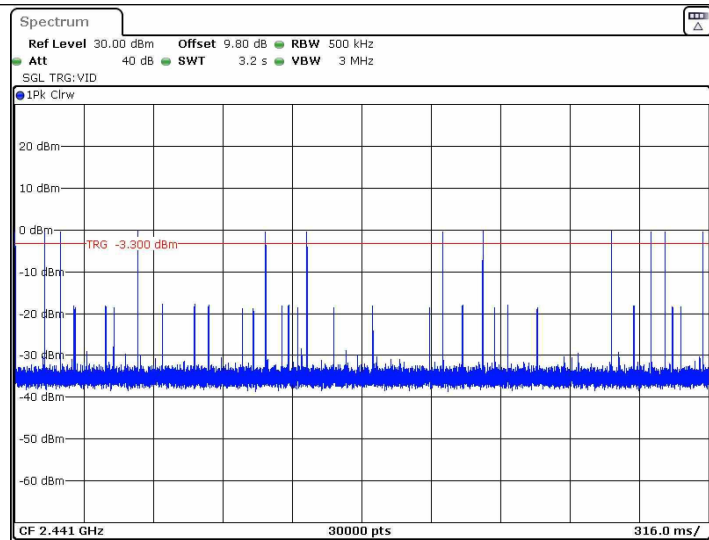


Date: 21. JAN 2022 06:20:14

2DH5\_Ant1\_Hop

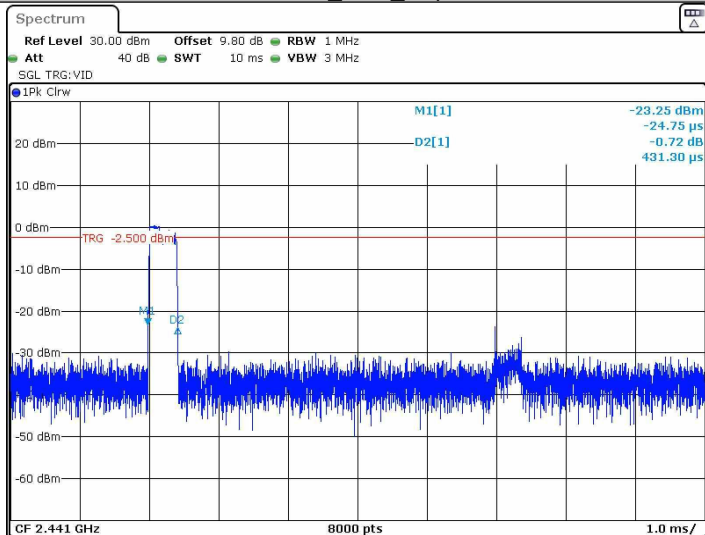


Date: 21. JAN 2022 06:16:34

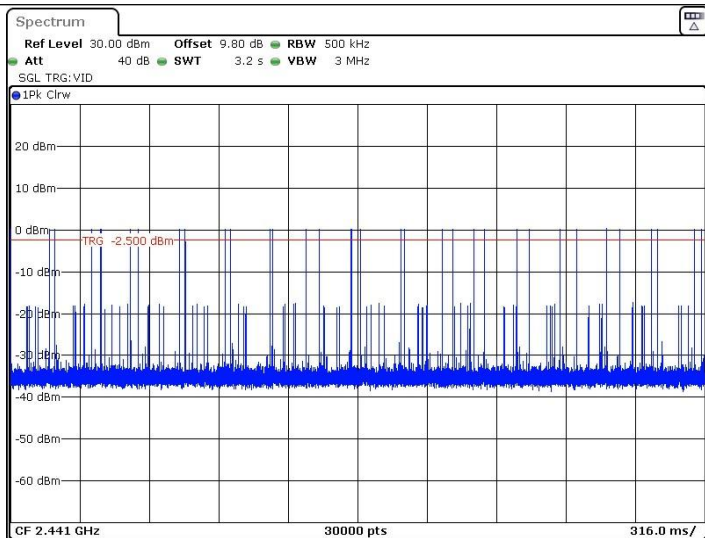


Date: 21. JAN 2022 06:16:40

3DH1\_Ant1\_Hop

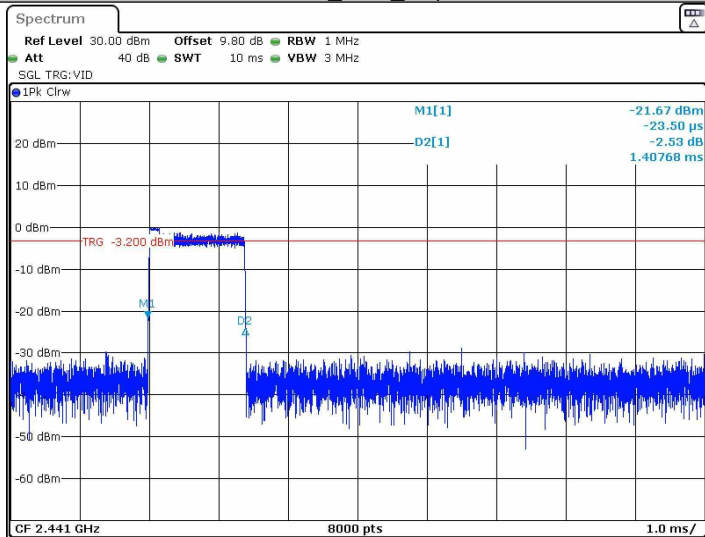


Date: 9.FEB.2022 02:47:12

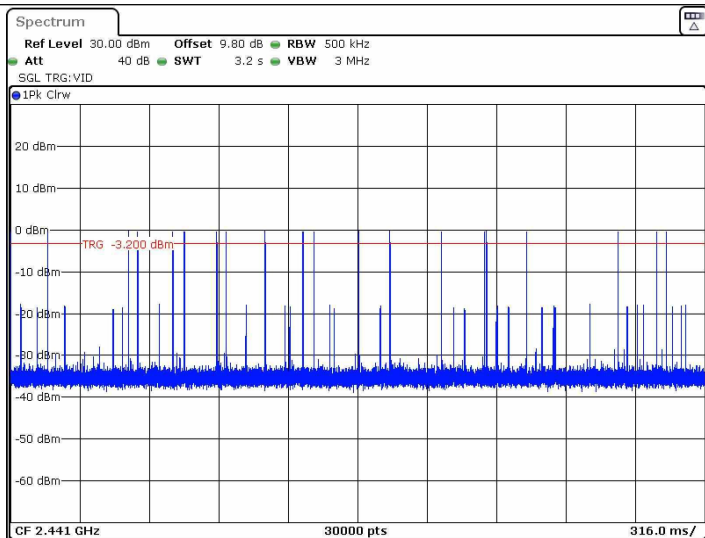


Date: 9.FEB.2022 02:47:18

3DH3\_Ant1\_Hop

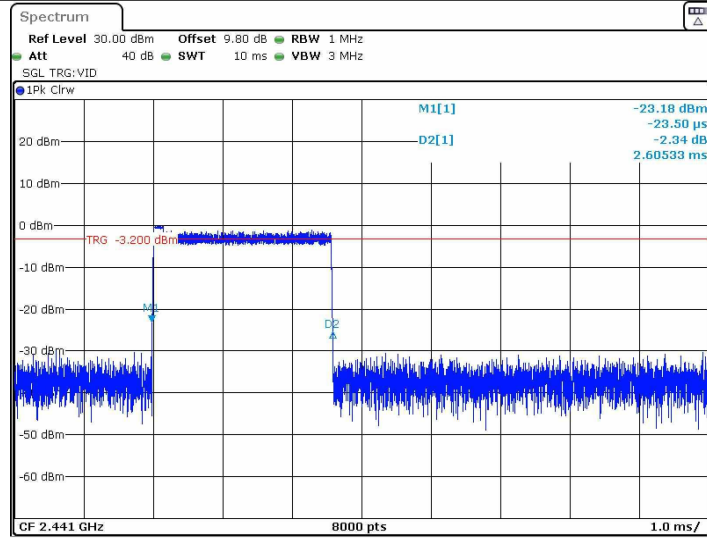


Date: 21.JAN.2022 06:31:51

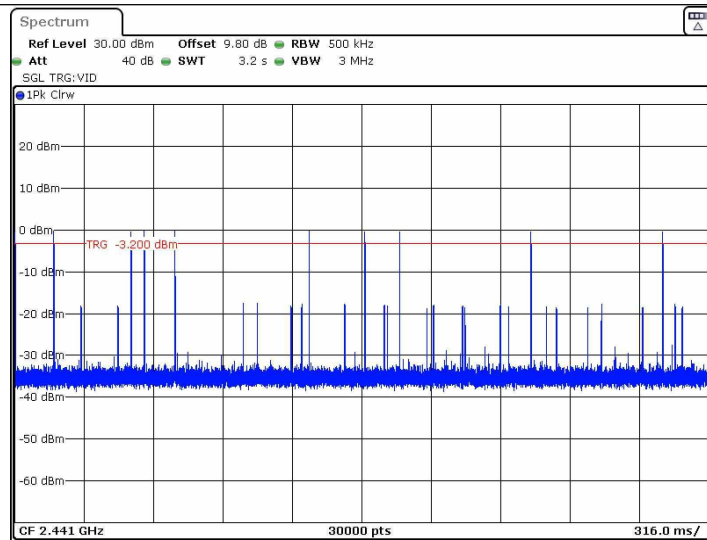


Date: 21.JAN.2022 06:31:57

3DH5\_Ant1\_Hop

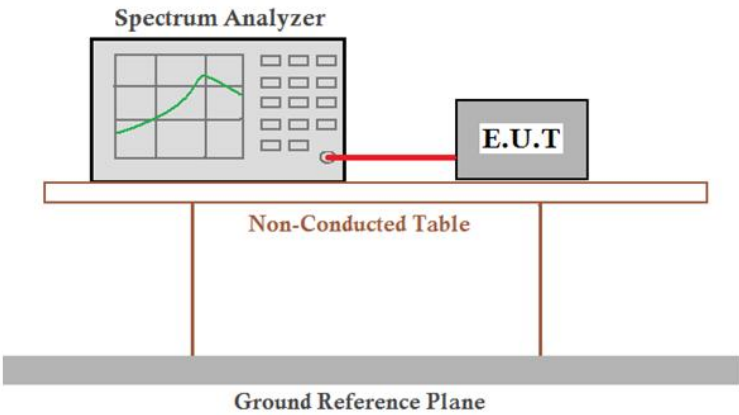


Date: 21. JAN 2022 06:27:29



Date: 21. JAN 2022 06:27:35

## 5.8 Band-edge for RF Conducted Emissions

|                        |                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:      | 47 CFR Part 15C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                      |
| Test Method:           | ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                        |
| Test Setup:            |  <p><i>Remark: Offset=cable loss+ attenuation factor.</i></p>                                                                                                                                                                                                                                         |
| Limit:                 | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. |
| Exploratory Test Mode: | Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type                                                                                                                                                                                                                                                                                              |
| Final Test Mode:       | Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.<br>Only the worst case is recorded in the report.                                                                                                          |
| Test Results:          | Pass                                                                                                                                                                                                                                                                                                                                                                                    |



## Measurement Data

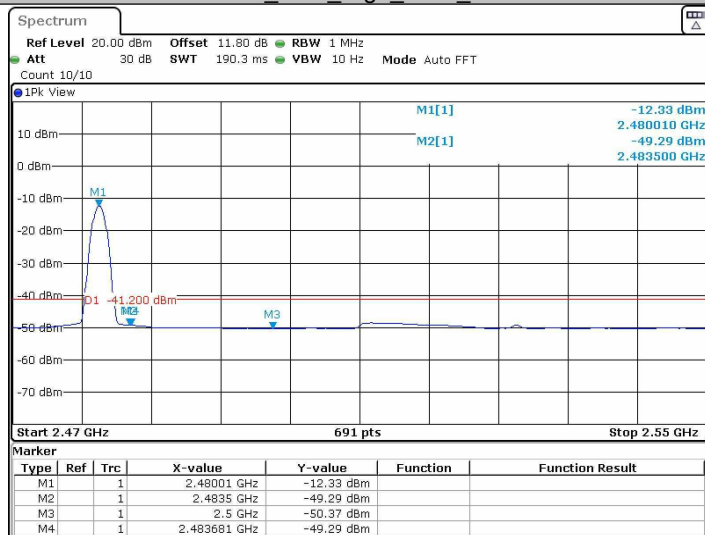
| TestMode | Antenna | ChName | Channel  | Detector | Freq     | Result | Limit   | Verdict |
|----------|---------|--------|----------|----------|----------|--------|---------|---------|
| DH5      | Ant1    | Low    | 2402     | AV       | 2310.000 | -50.34 | ≤-41.20 | PASS    |
|          |         |        |          | AV       | 2340.174 | -48.71 | ≤-41.20 | PASS    |
|          |         |        |          | AV       | 2390.000 | -50.35 | ≤-41.20 | PASS    |
|          |         |        |          | Peak     | 2310.000 | -38.55 | ≤-21.20 | PASS    |
|          |         |        |          | Peak     | 2386.739 | -34.65 | ≤-21.20 | PASS    |
|          |         |        |          | Peak     | 2390.000 | -38.89 | ≤-21.20 | PASS    |
|          |         | High   | 2480     | AV       | 2483.500 | -49.29 | ≤-41.20 | PASS    |
|          |         |        |          | AV       | 2483.681 | -49.29 | ≤-41.20 | PASS    |
|          |         |        |          | AV       | 2500.000 | -50.37 | ≤-41.20 | PASS    |
|          |         |        |          | Peak     | 2483.500 | -29.68 | ≤-21.20 | PASS    |
|          |         |        |          | Peak     | 2483.913 | -27.91 | ≤-21.20 | PASS    |
|          |         |        |          | Peak     | 2500.000 | -38.53 | ≤-21.20 | PASS    |
|          |         | Low    | Hop_2402 | Peak     | 2310.000 | -37.74 | ≤-21.20 | PASS    |
|          |         |        |          | Peak     | 2363.457 | -36.99 | ≤-21.20 | PASS    |
|          |         |        |          | Peak     | 2390.000 | -38.74 | ≤-21.20 | PASS    |
|          |         | High   | Hop_2480 | Peak     | 2483.500 | -40.58 | ≤-21.20 | PASS    |
|          |         |        |          | Peak     | 2495.971 | -36.96 | ≤-21.20 | PASS    |
|          |         |        |          | Peak     | 2500.000 | -38.79 | ≤-21.20 | PASS    |
| 2DH5     | Ant1    | Low    | 2402     | AV       | 2310.000 | -50.34 | ≤-41.20 | PASS    |
|          |         |        |          | AV       | 2340.478 | -48.74 | ≤-41.20 | PASS    |
|          |         |        |          | AV       | 2390.000 | -50.37 | ≤-41.20 | PASS    |
|          |         |        |          | Peak     | 2310.000 | -38.41 | ≤-21.20 | PASS    |
|          |         |        |          | Peak     | 2340.935 | -36.26 | ≤-21.20 | PASS    |
|          |         |        |          | Peak     | 2390.000 | -38.09 | ≤-21.20 | PASS    |
|          |         | High   | 2480     | AV       | 2483.500 | -47.94 | ≤-41.20 | PASS    |
|          |         |        |          | AV       | 2483.565 | -48.04 | ≤-41.20 | PASS    |
|          |         |        |          | AV       | 2500.000 | -50.38 | ≤-41.20 | PASS    |
|          |         |        |          | Peak     | 2483.500 | -37.02 | ≤-21.20 | PASS    |
|          |         |        |          | Peak     | 2484.493 | -34.81 | ≤-21.20 | PASS    |
|          |         |        |          | Peak     | 2500.000 | -39.09 | ≤-21.20 | PASS    |
|          |         | Low    | Hop_2402 | Peak     | 2310.000 | -38.78 | ≤-21.20 | PASS    |
|          |         |        |          | Peak     | 2350.674 | -36.94 | ≤-21.20 | PASS    |
|          |         |        |          | Peak     | 2390.000 | -39.39 | ≤-21.20 | PASS    |
|          |         | High   | Hop_2480 | Peak     | 2483.500 | -39.32 | ≤-21.20 | PASS    |
|          |         |        |          | Peak     | 2491.797 | -36.99 | ≤-21.20 | PASS    |
|          |         |        |          | Peak     | 2500.000 | -38.54 | ≤-21.20 | PASS    |

|      |      |      |          |      |          |        |               |      |
|------|------|------|----------|------|----------|--------|---------------|------|
| 3DH5 | Ant1 | Low  | 2402     | AV   | 2310.000 | -50.34 | $\leq -41.20$ | PASS |
|      |      |      |          | AV   | 2340.022 | -48.73 | $\leq -41.20$ | PASS |
|      |      |      |          | AV   | 2390.000 | -50.41 | $\leq -41.20$ | PASS |
|      |      |      |          | Peak | 2310.000 | -37.72 | $\leq -21.20$ | PASS |
|      |      |      |          | Peak | 2328.000 | -35.76 | $\leq -21.20$ | PASS |
|      |      |      |          | Peak | 2390.000 | -38.61 | $\leq -21.20$ | PASS |
|      |      | High | 2480     | AV   | 2483.500 | -47.96 | $\leq -41.20$ | PASS |
|      |      |      |          | AV   | 2483.565 | -48.05 | $\leq -41.20$ | PASS |
|      |      |      |          | AV   | 2500.000 | -50.42 | $\leq -41.20$ | PASS |
|      |      |      |          | Peak | 2483.500 | -31.49 | $\leq -21.20$ | PASS |
|      |      |      |          | Peak | 2483.797 | -29.64 | $\leq -21.20$ | PASS |
|      |      |      |          | Peak | 2500.000 | -38.49 | $\leq -21.20$ | PASS |
|      |      | Low  | Hop_2402 | Peak | 2310.000 | -39.5  | $\leq -21.20$ | PASS |
|      |      |      |          | Peak | 2340.630 | -34.47 | $\leq -21.20$ | PASS |
|      |      |      |          | Peak | 2390.000 | -38.82 | $\leq -21.20$ | PASS |
|      |      | High | Hop_2480 | Peak | 2483.500 | -39.49 | $\leq -21.20$ | PASS |
|      |      |      |          | Peak | 2490.406 | -37.42 | $\leq -21.20$ | PASS |
|      |      |      |          | Peak | 2500.000 | -37.74 | $\leq -21.20$ | PASS |

Test plot as follows:

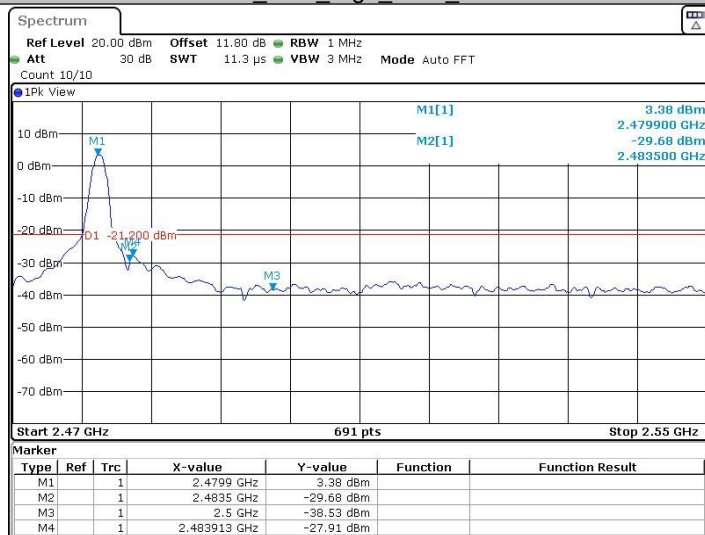


DH5\_Ant1\_High\_2480\_AV



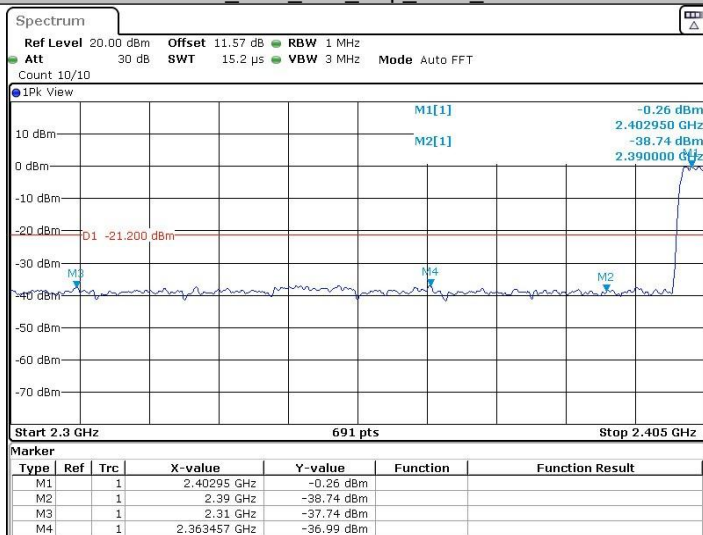
Date: 21.JAN.2022 02:04:09

DH5\_Ant1\_High\_2480\_Peak



Date: 21.JAN.2022 02:03:59

### DH5\_Ant1\_Low\_Hop\_2402\_Peak



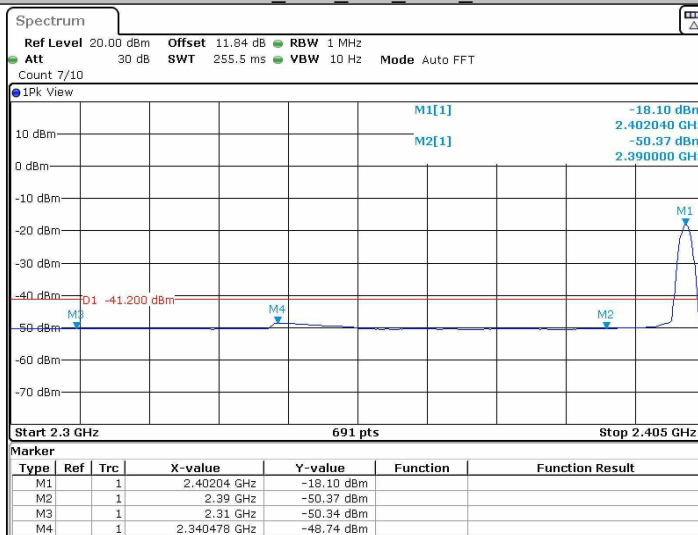
Date: 21. JAN 2022 03:44:00

### DH5\_Ant1\_High\_Hop\_2480\_Peak



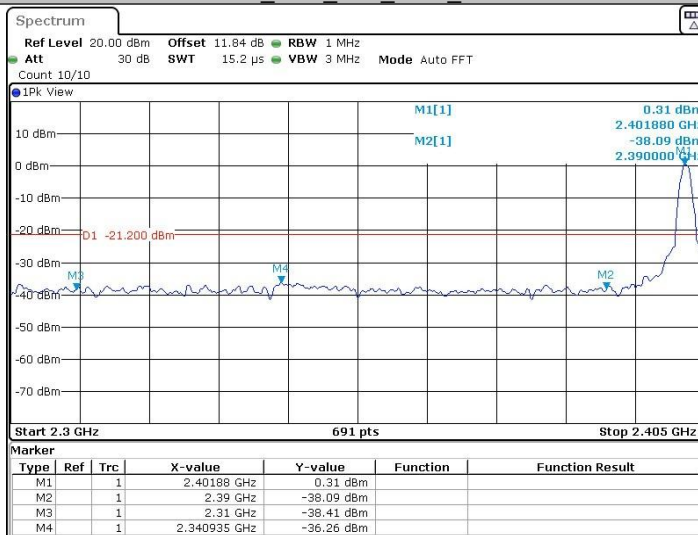
Date: 21. JAN 2022 06:10:26

2DH5\_Ant1\_Low\_2402\_AV



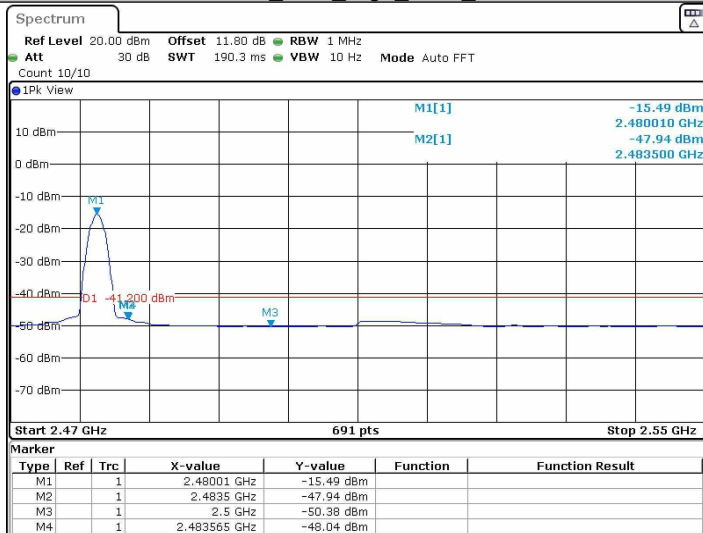
Date: 21.JAN.2022 02:08:46

2DH5\_Ant1\_Low\_2402\_Peak



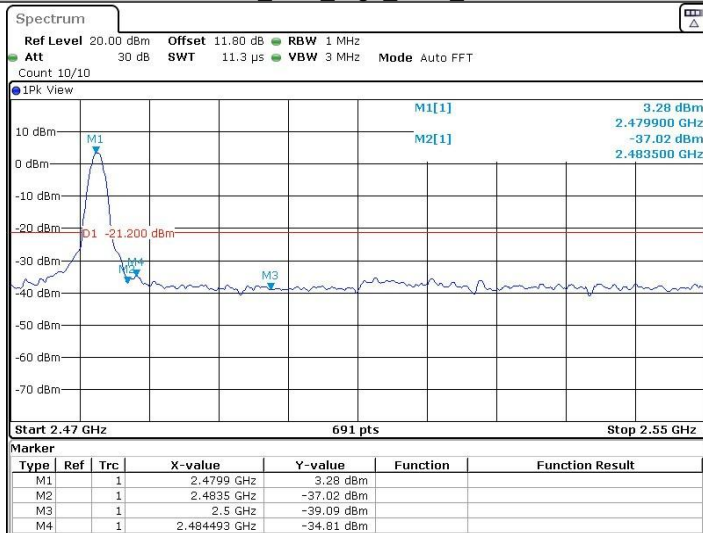
Date: 21.JAN.2022 02:08:36

2DH5\_Ant1\_High\_2480\_AV



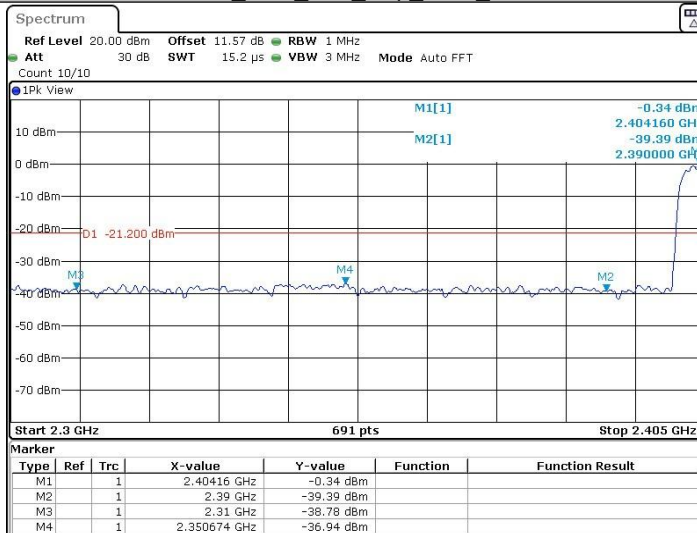
Date: 21.JAN.2022 02:24:11

2DH5\_Ant1\_High\_2480\_Peak



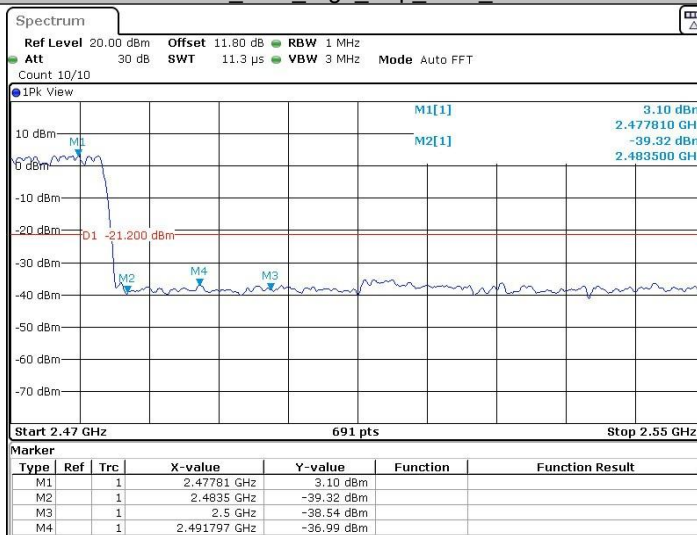
Date: 21.JAN.2022 02:24:01

2DH5\_Ant1\_Low\_Hop\_2402\_Peak



Date: 21.JAN.2022 06:13:11

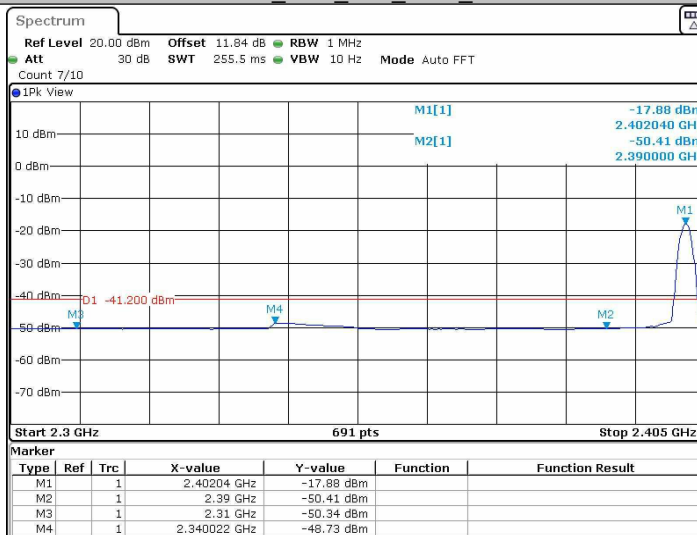
2DH5\_Ant1\_High\_Hop\_2480\_Peak



Date: 21.JAN.2022 06:21:42

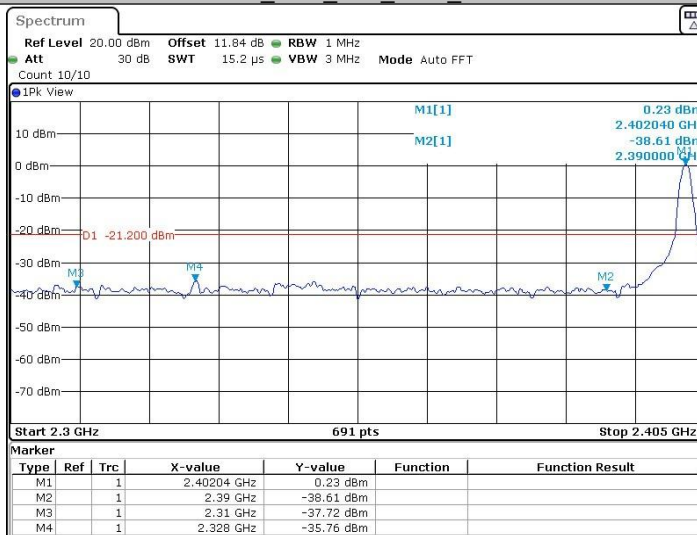


3DH5\_Ant1\_Low\_2402\_AV



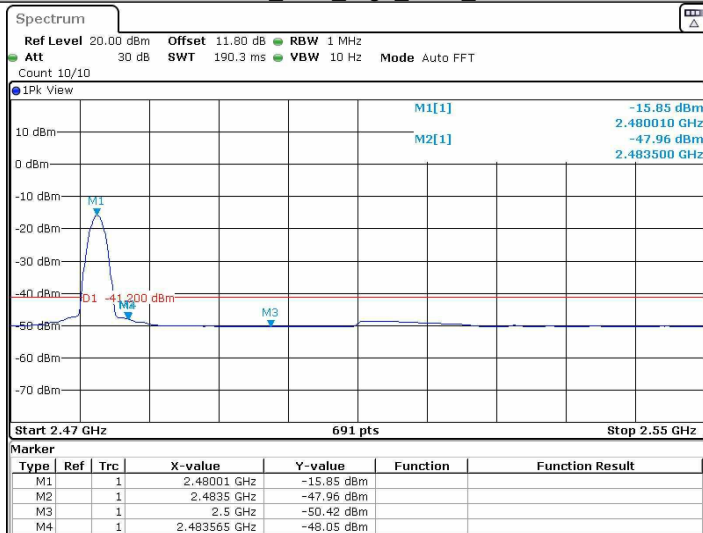
Date: 21.JAN.2022 02:30:41

3DH5\_Ant1\_Low\_2402\_Peak



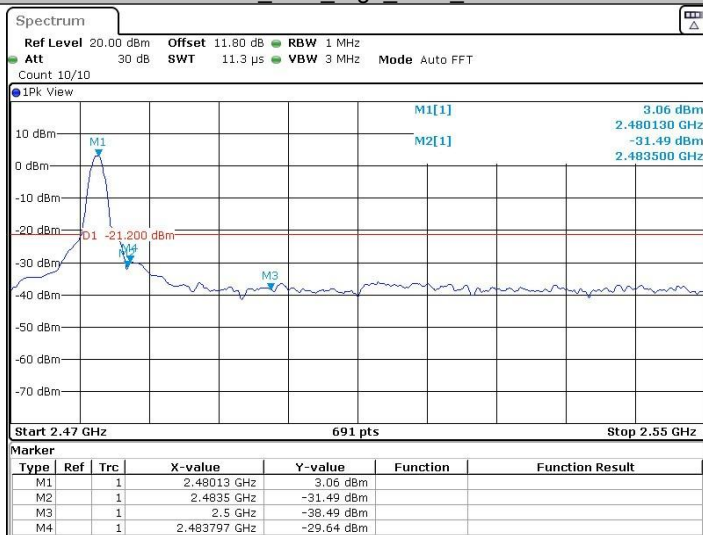
Date: 21.JAN.2022 02:30:31

3DH5\_Ant1\_High\_2480\_AV



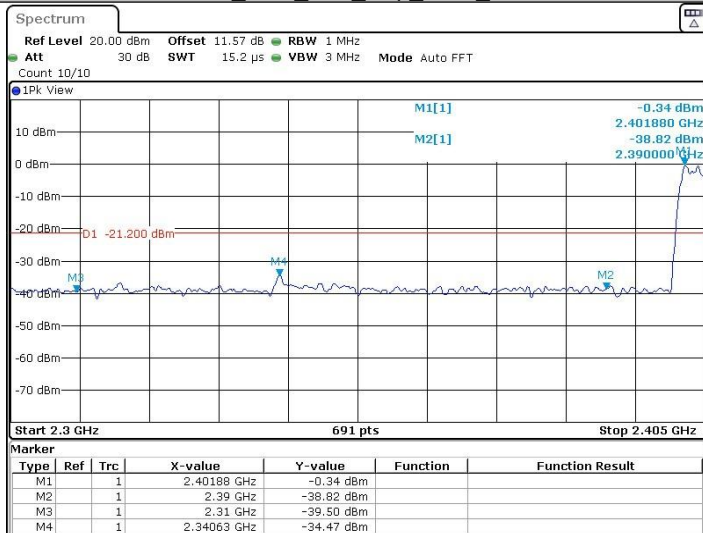
Date: 21. JAN 2022 03:39:47

3DH5\_Ant1\_High\_2480\_Peak



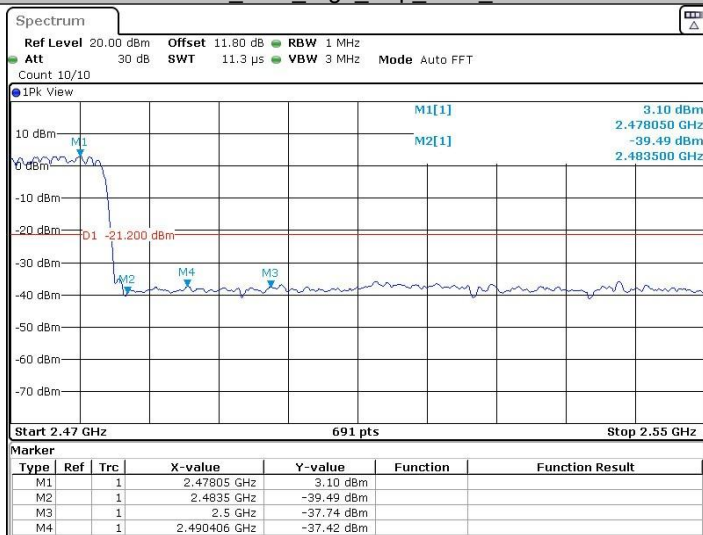
Date: 21. JAN 2022 03:39:37

### 3DH5\_Ant1\_Low\_Hop\_2402\_Peak



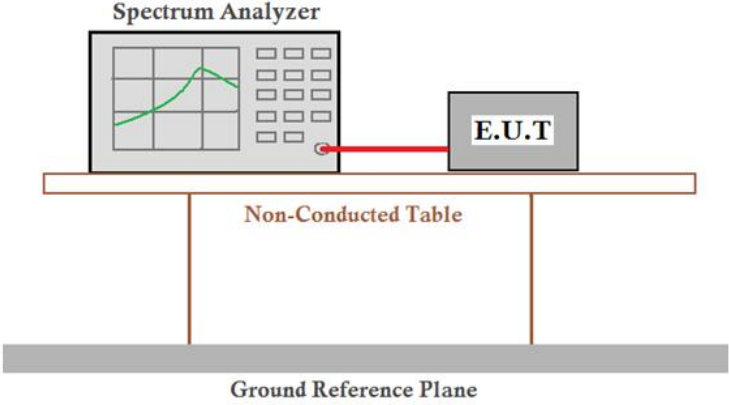
Date: 21.JAN.2022 06:23:12

### 3DH5\_Ant1\_High\_Hop\_2480\_Peak

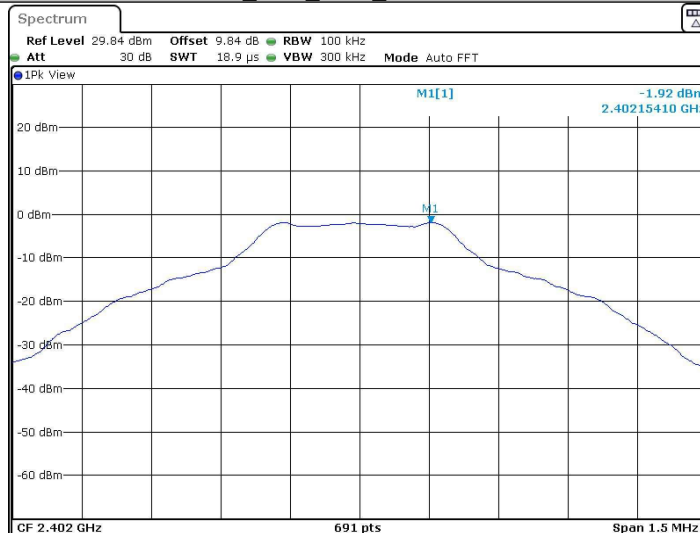


Date: 21.JAN.2022 06:33:42

## 5.9 Spurious RF Conducted Emissions

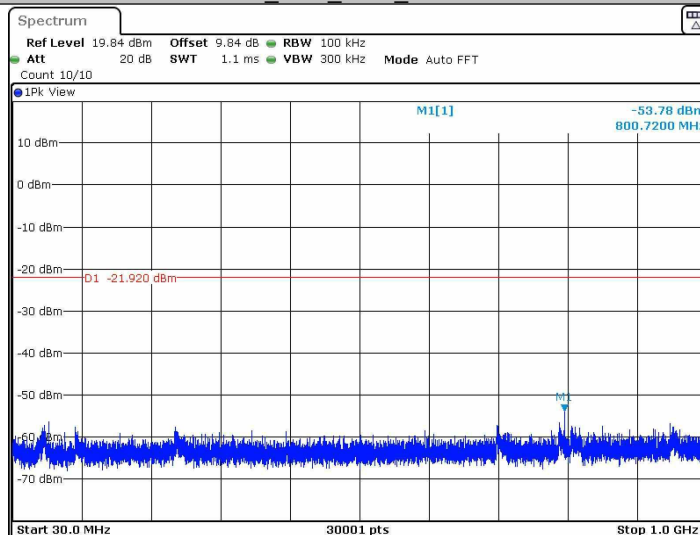
|                        |                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement:      | 47 CFR Part 15C Section 15.247 (d)                                                                                                                                                                                                                                                                                                                                                      |
| Test Method:           | ANSI C63.10:2013                                                                                                                                                                                                                                                                                                                                                                        |
| Test Setup:            |  <p><i>Remark: Offset=cable loss+ attenuation factor.</i></p>                                                                                                                                                                                                                                         |
| Limit:                 | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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. |
| Exploratory Test Mode: | Non-hopping transmitting with all kind of modulation and all kind of data type                                                                                                                                                                                                                                                                                                          |
| Final Test Mode:       | Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4$ DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.                                                                                                                                                            |
| Test Results:          | Pass                                                                                                                                                                                                                                                                                                                                                                                    |

DH5\_Ant1\_2402\_0~Reference



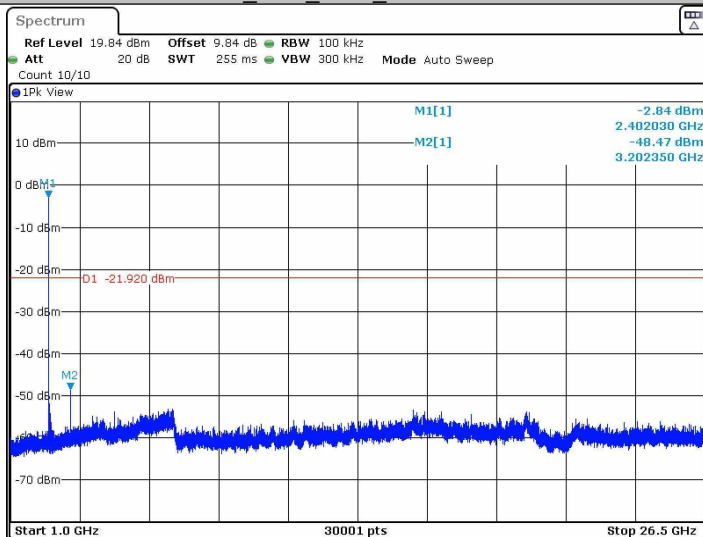
Date: 21.JAN.2022 01:53:30

DH5\_Ant1\_2402\_30~1000



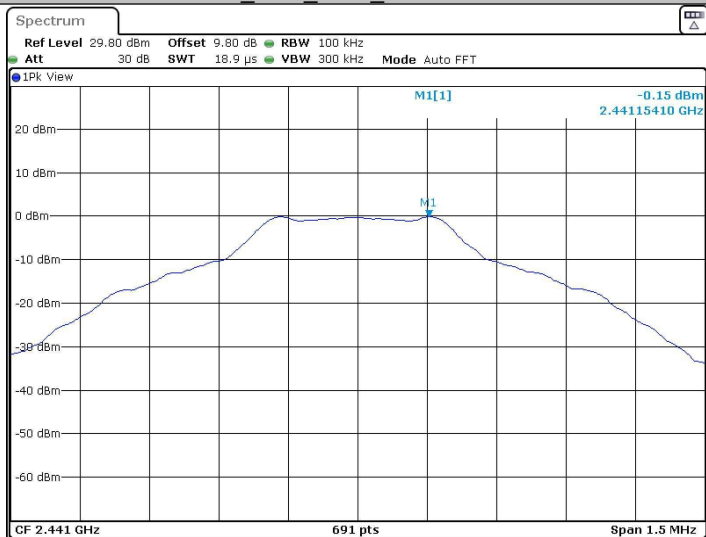
Date: 21.JAN.2022 01:53:35

DH5\_Ant1\_2402\_1000~26500



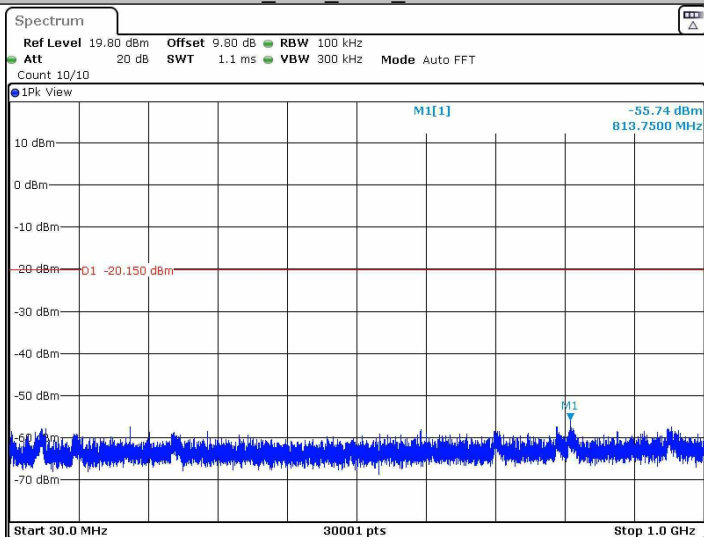
Date: 21.JAN.2022 01:53:57

DH5\_Ant1\_2441\_0~Reference



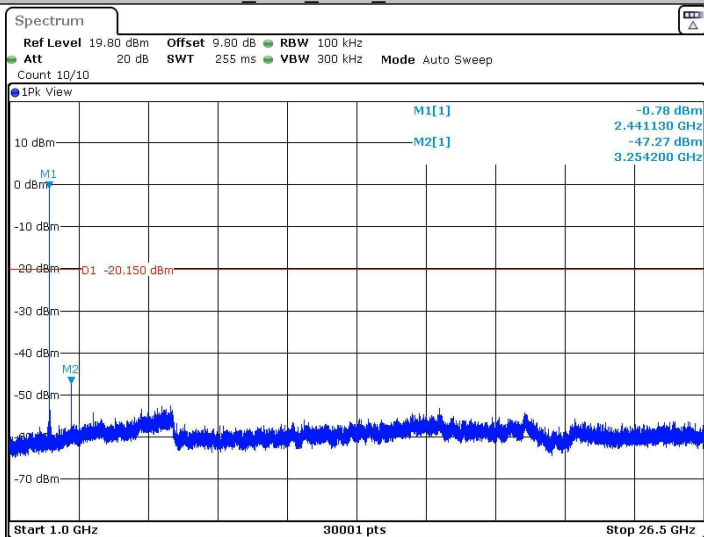
Date: 21.JAN.2022 01:56:31

DH5\_Ant1\_2441\_30~1000



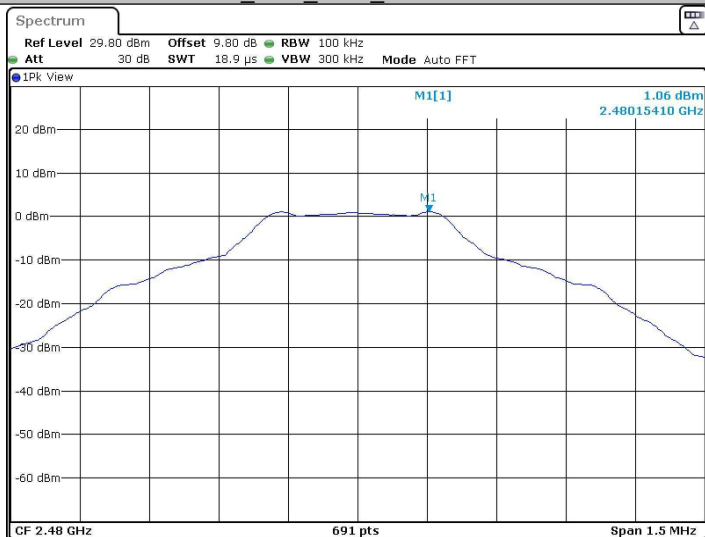
Date: 21.JAN.2022 01:56:35

DH5\_Ant1\_2441\_1000~26500



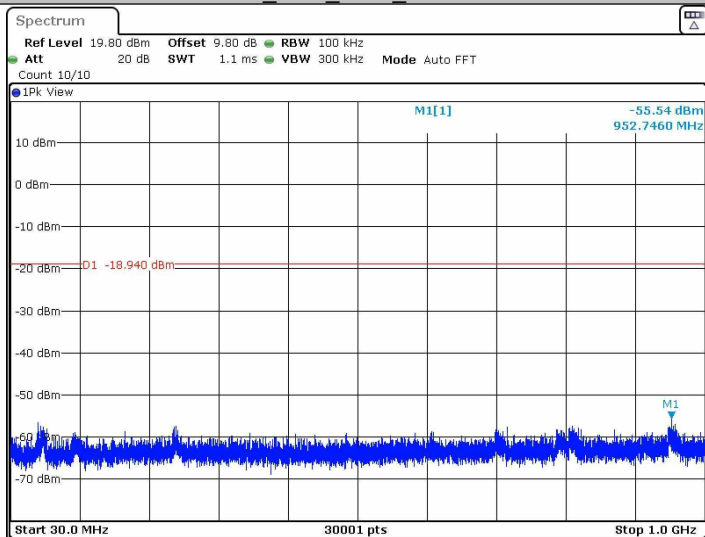
Date: 21.JAN.2022 01:56:57

DH5\_Ant1\_2480\_0~Reference



Date: 21.JAN.2022 02:04:16

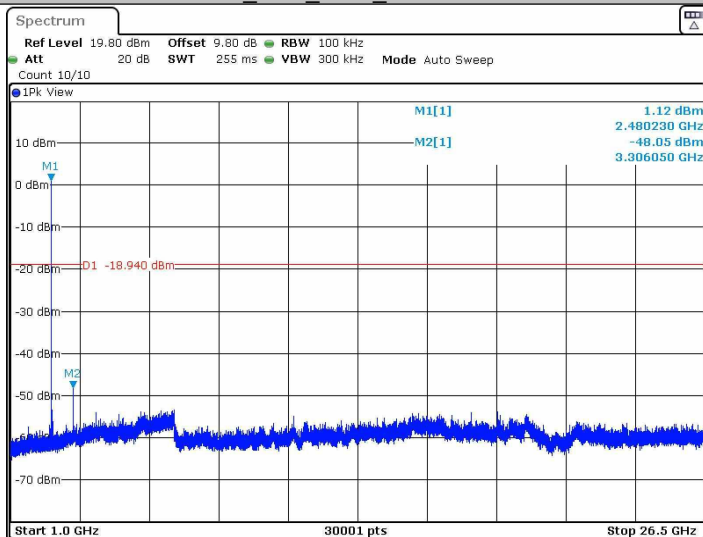
DH5\_Ant1\_2480\_30~1000



Date: 21.JAN.2022 02:04:20

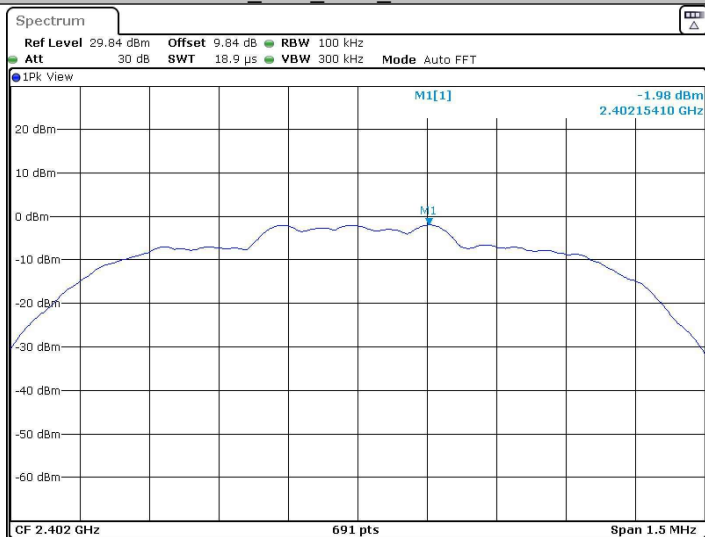


DH5\_Ant1\_2480\_1000~26500



Date: 21.JAN.2022 02:04:42

2DH5\_Ant1\_2402\_0~Reference



Date: 21.JAN.2022 02:08:53