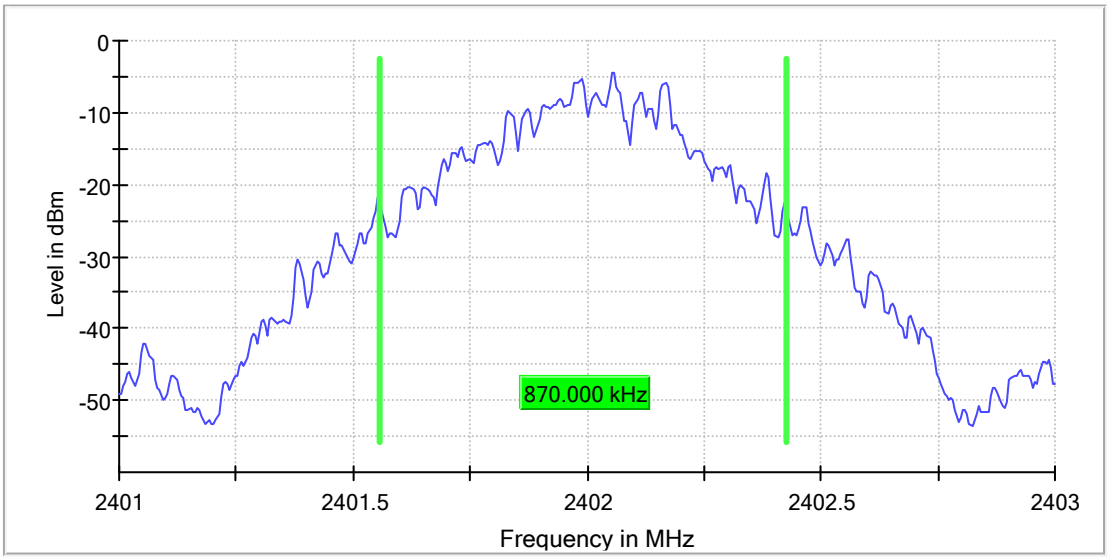
# Appendix B

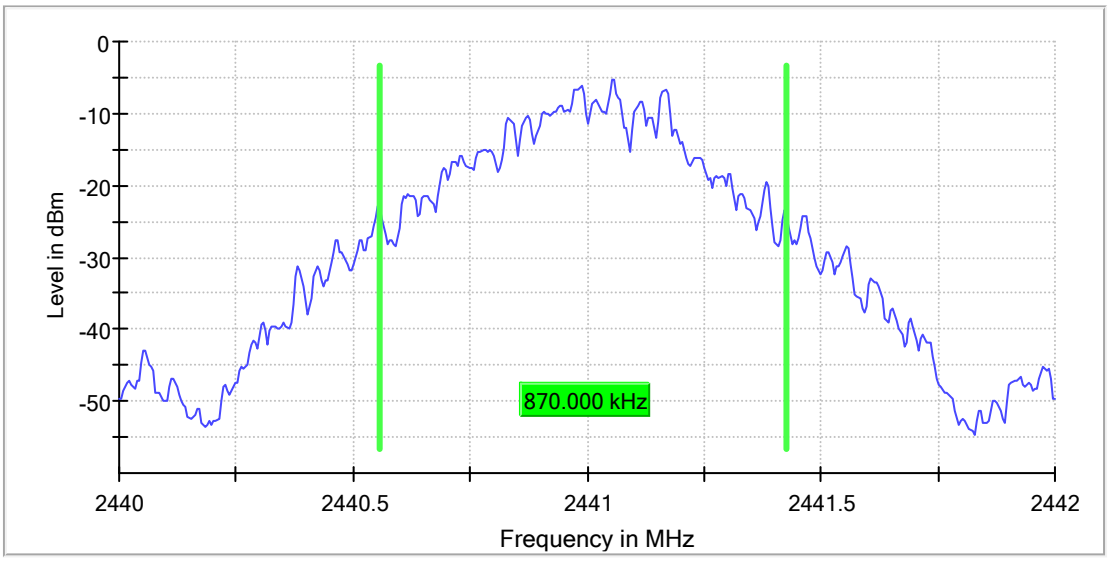
## Test Results of Conducted Testing

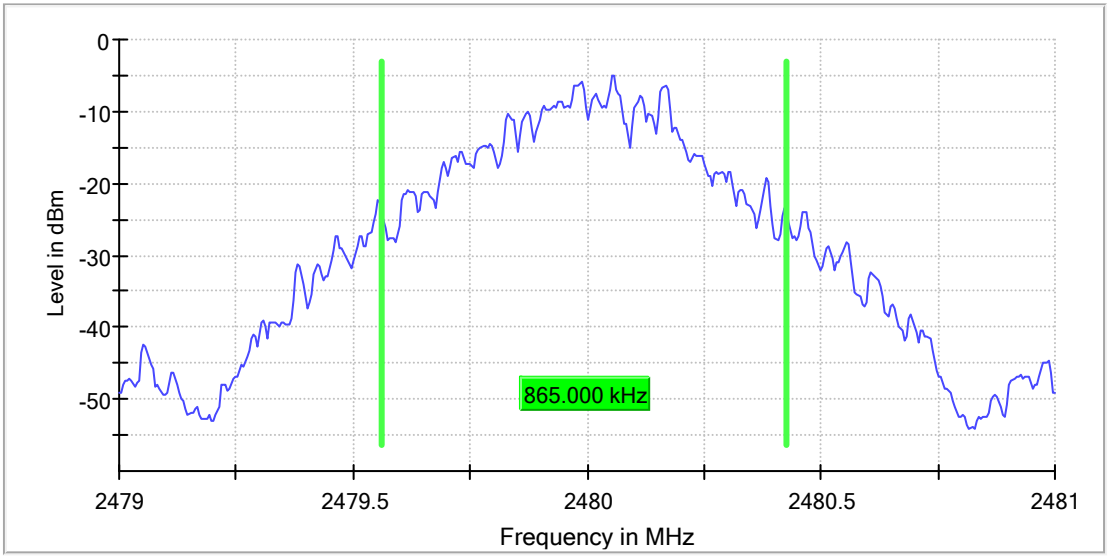
## Appendix B.1: Test Plots of 99% Bandwidth

**BDR Mode, DH1**

RBW=30KHz, VBW=100KHz

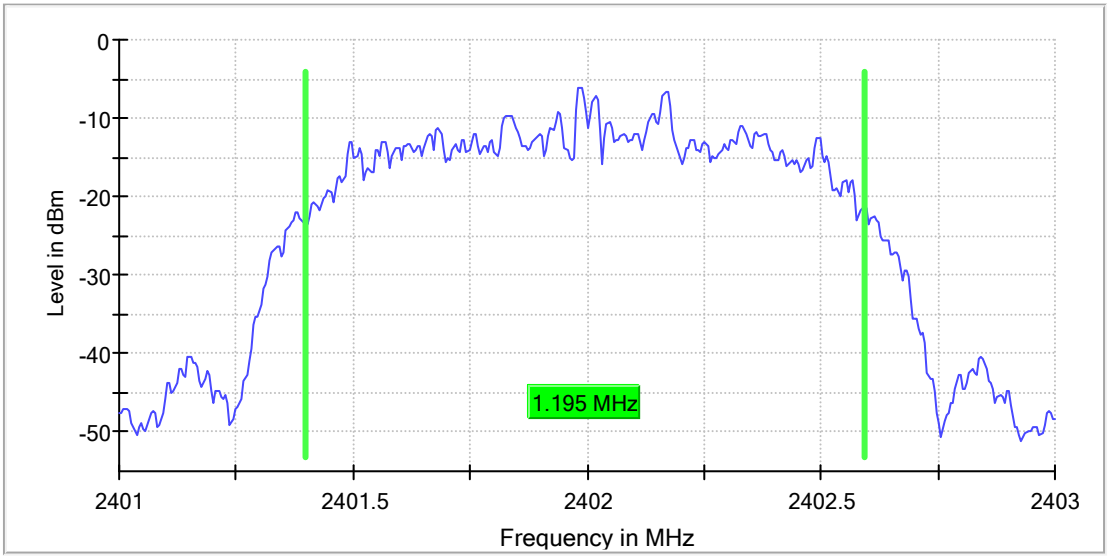


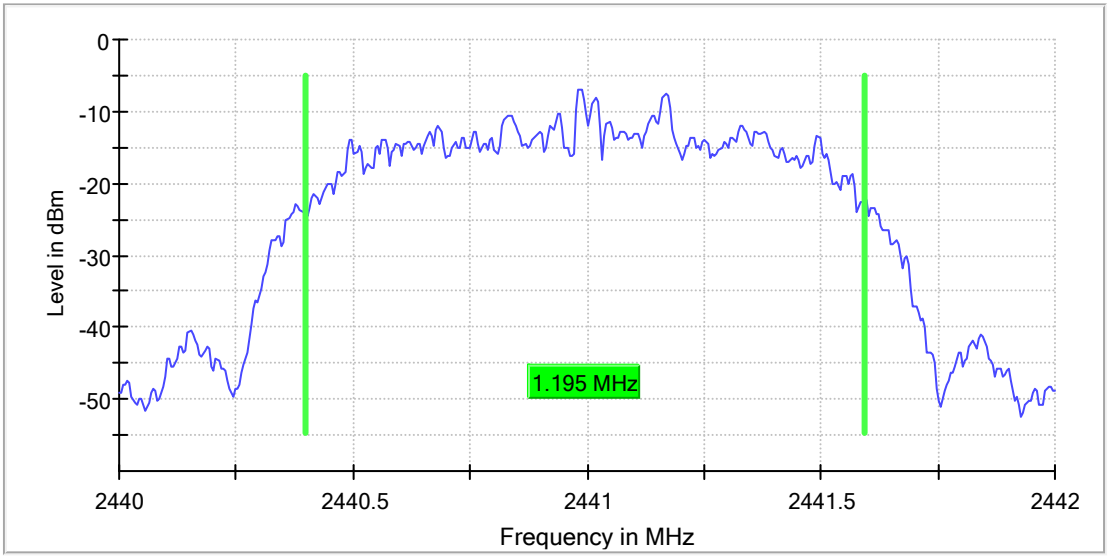



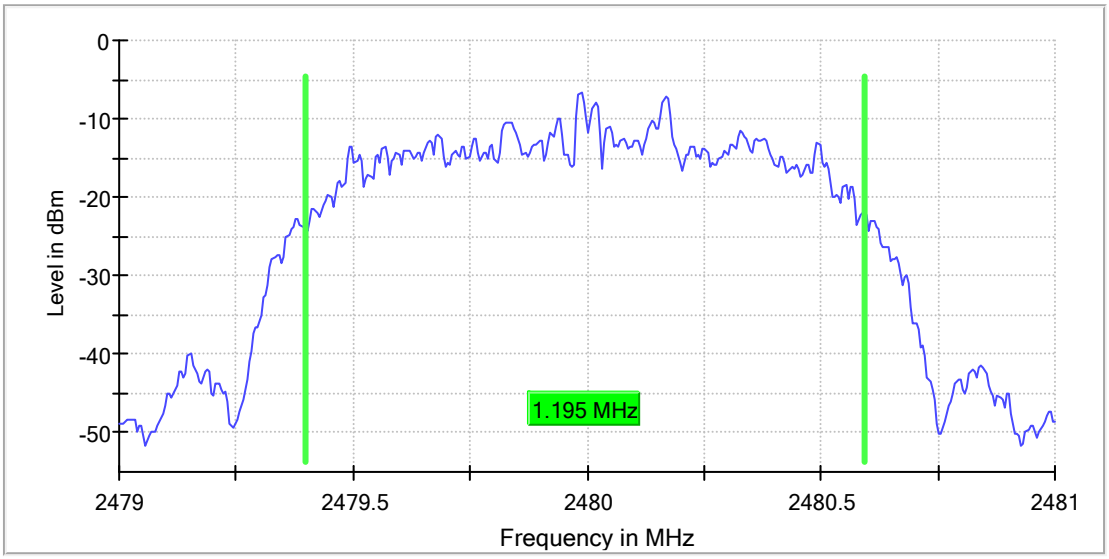



**EDR Mode, 3DH1**

RBW=30KHz VBW=100KHz



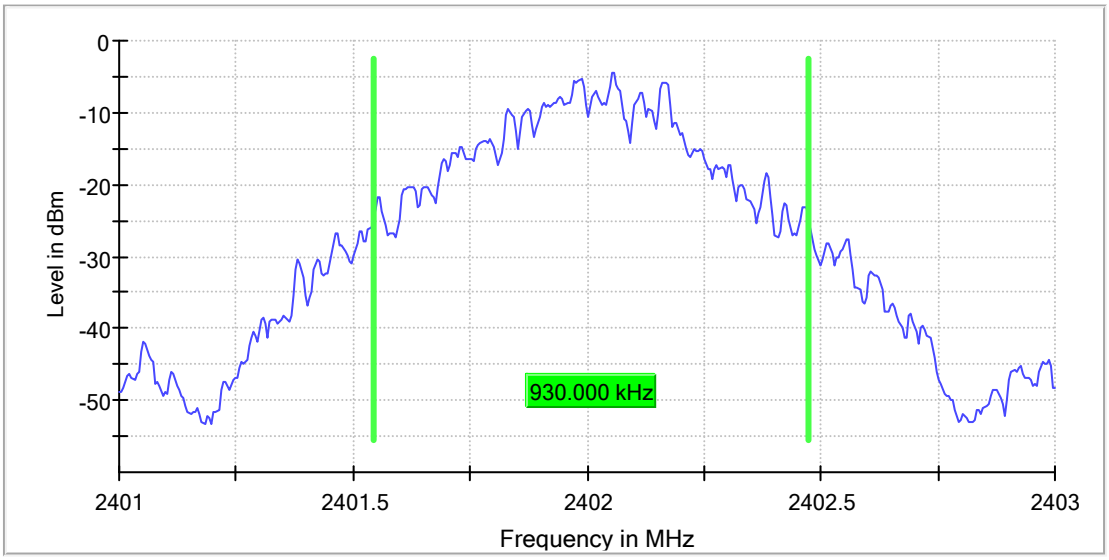

0
-10
-20
-30
-40
-50
Level in dBm
1.195 MHz
2440
2440.5
2441
2441.5
2442
Frequency in MHz

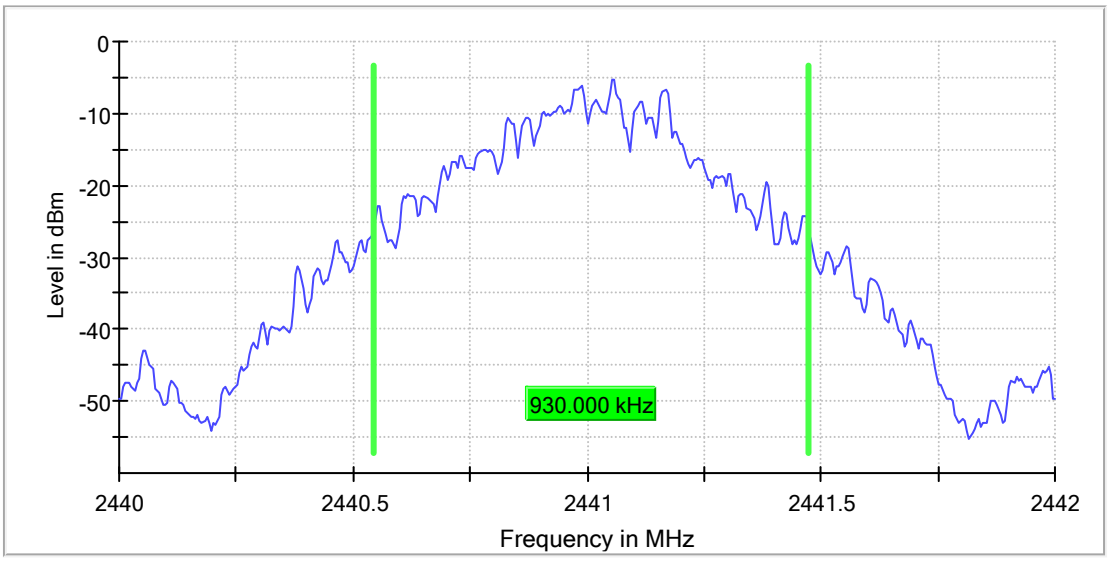

0
-10
-20
-30
-40
-50
Level in dBm
1.195 MHz
2479
2479.5
2480
2480.5
2481
Frequency in MHz

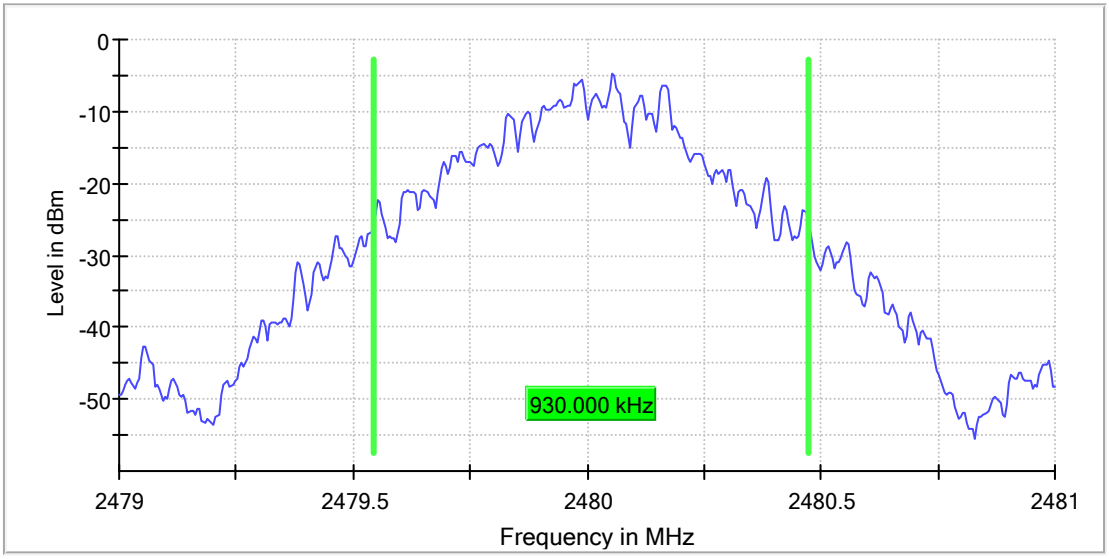
## Appendix B.2: Test Plots of 20dB Bandwidth

**BDR Mode, DH1**

RBW=30KHz VBW=100KHz

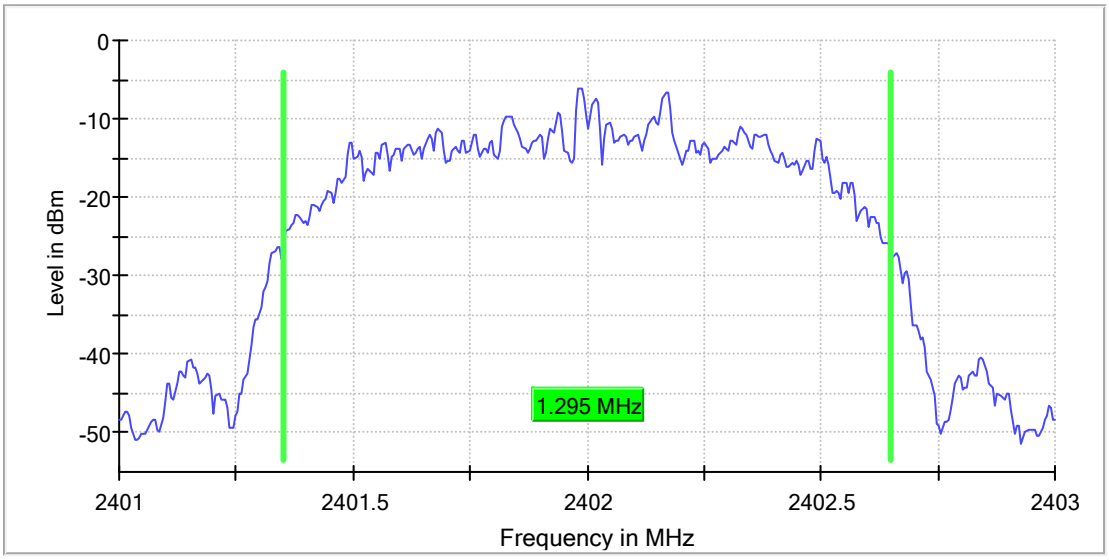


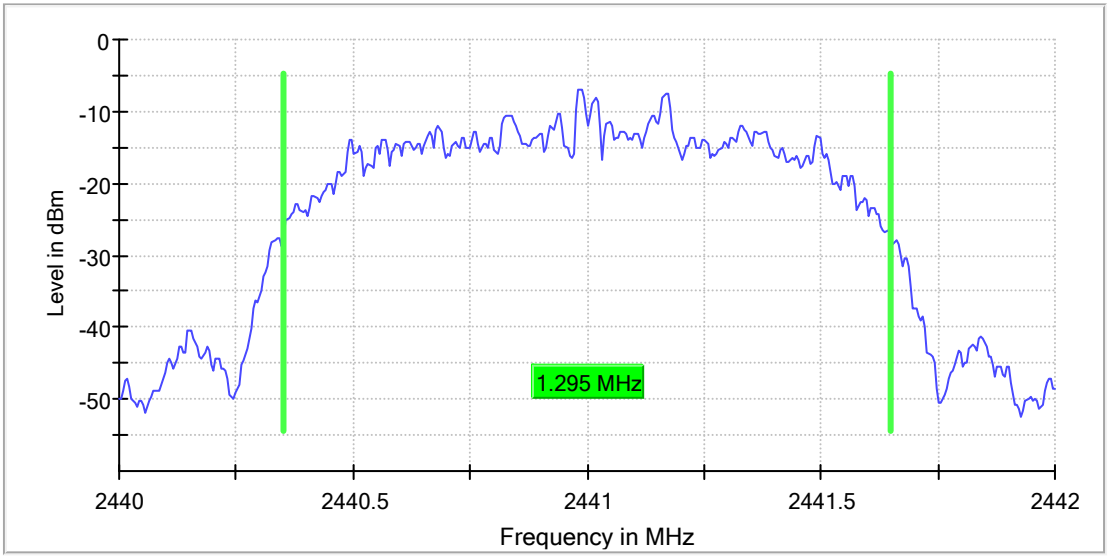



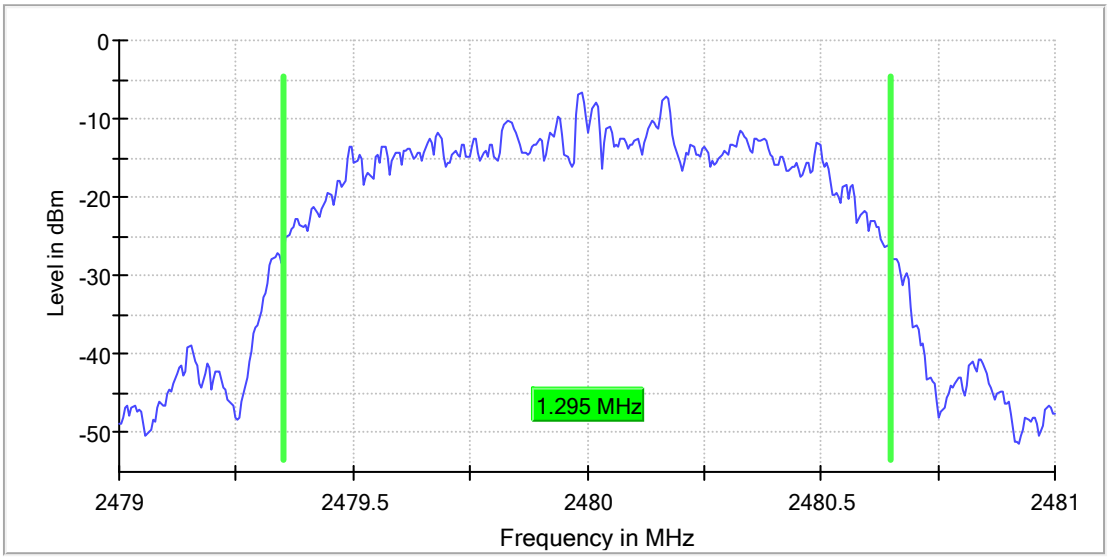



**EDR Mode, 3DH1**

RBW=30KHz VBW=100KHz

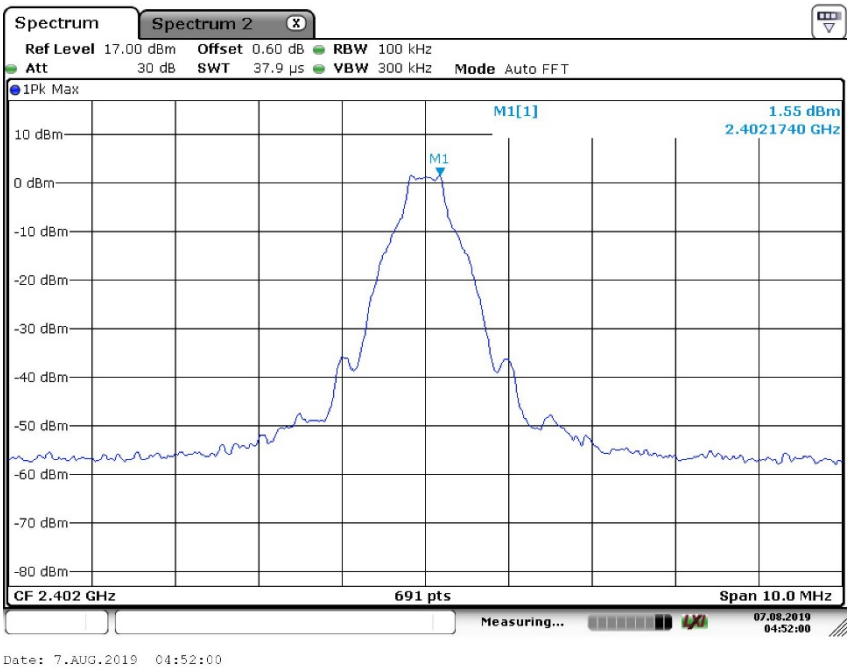



0
-10
-20
-30
-40
-50
Level in dBm
1.295 MHz
2440
2440.5
2441
2441.5
2442
Frequency in MHz

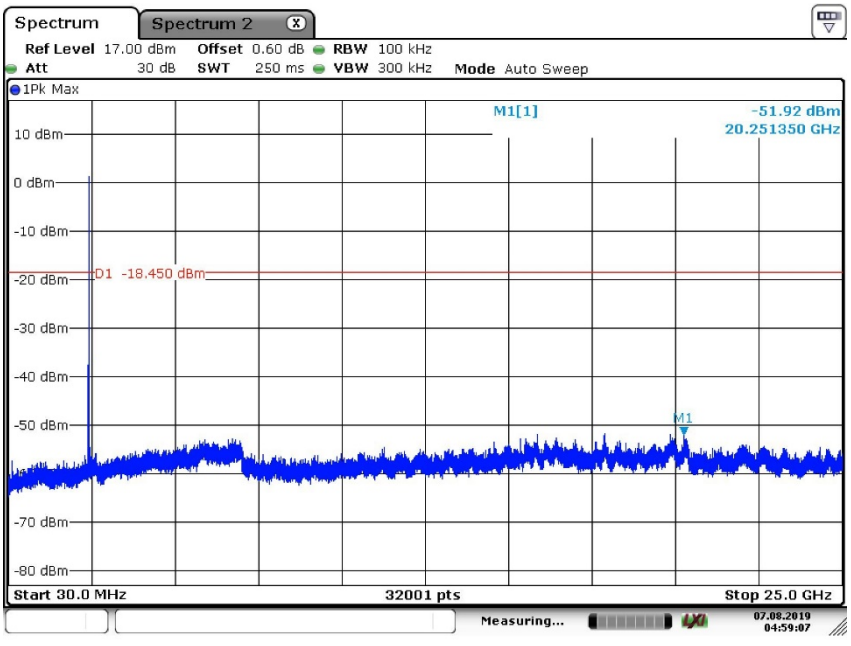

0
-10
-20
-30
-40
-50
Level in dBm
1.295 MHz
2479
2479.5
2480
2480.5
2481
Frequency in MHz

## Appendix B.3: Test Plots of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

### BDR Mode, Low Channel

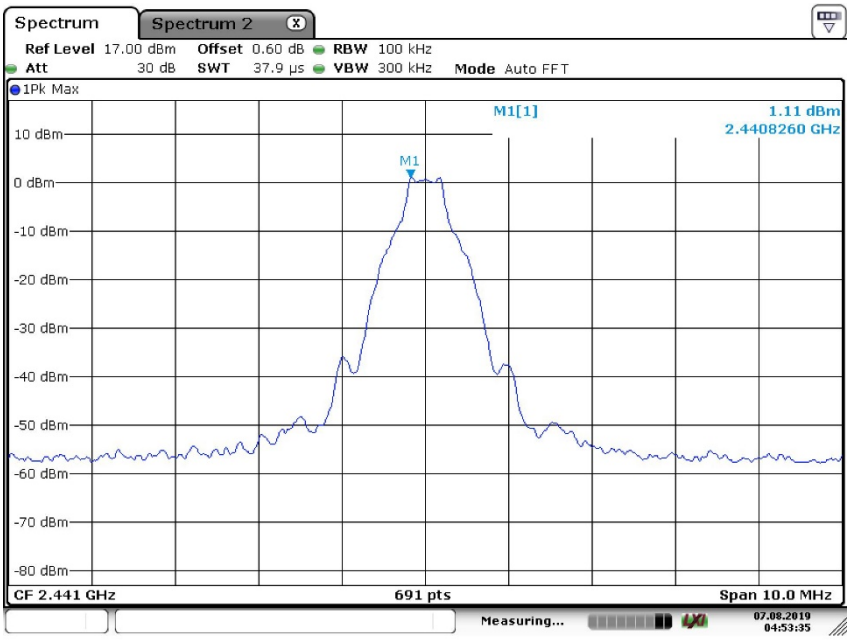



Date: 7.AUG.2019 04:52:00

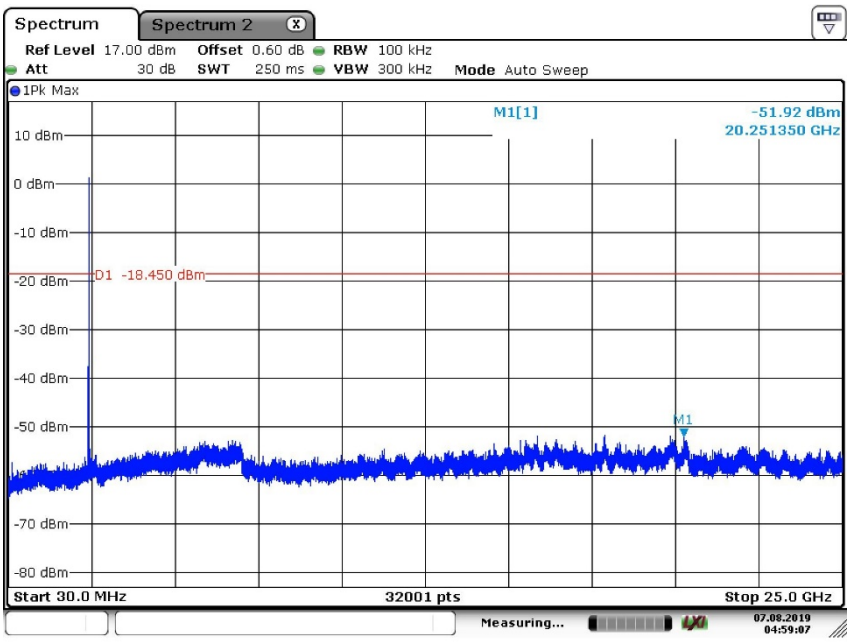



Date: 7.AUG.2019 04:59:07

**BDR Mode, Middle Channel**

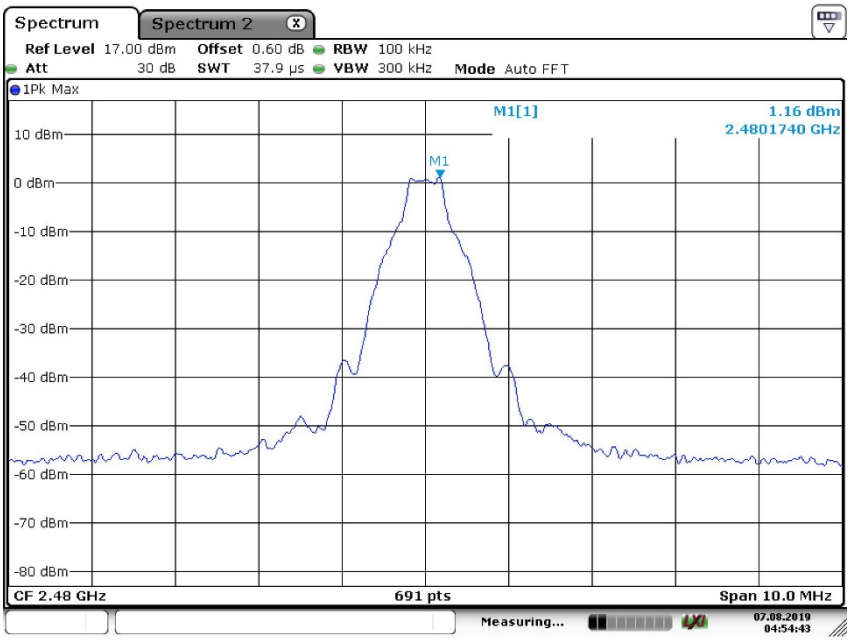



Date: 7.AUG.2019 04:53:35

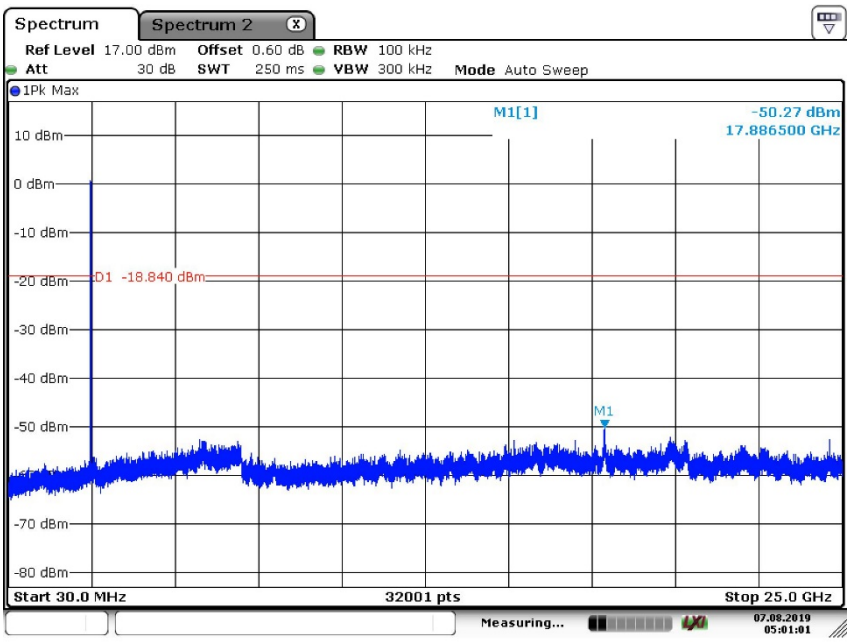



Date: 7.AUG.2019 04:59:07

## BDR Mode, High Channel

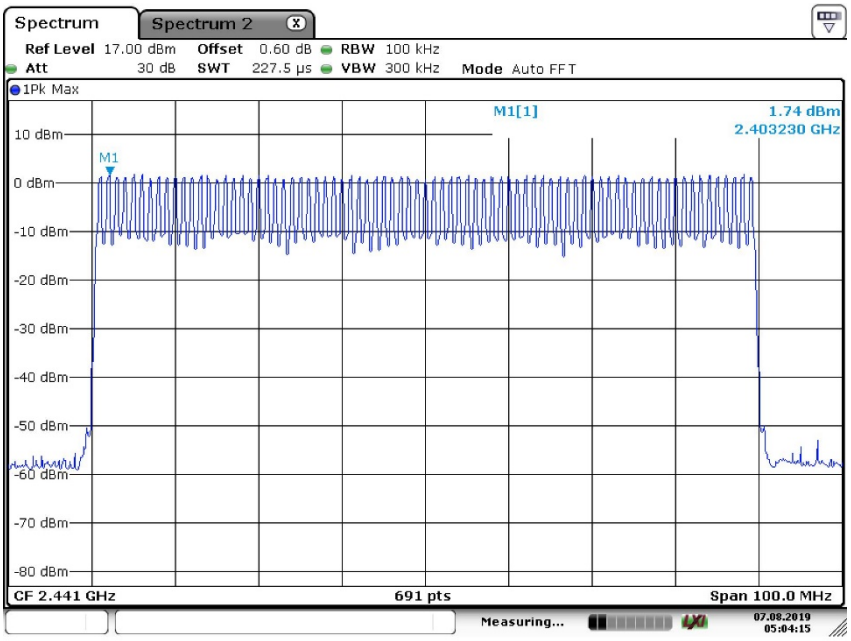



Date: 7.AUG.2019 04:54:43

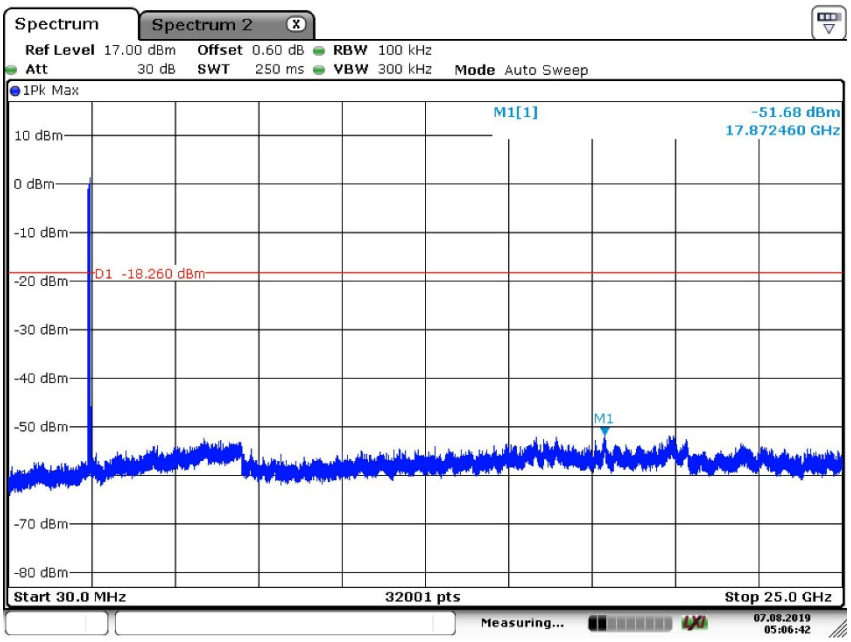



Date: 7.AUG.2019 05:01:01

## BDR, Hopping

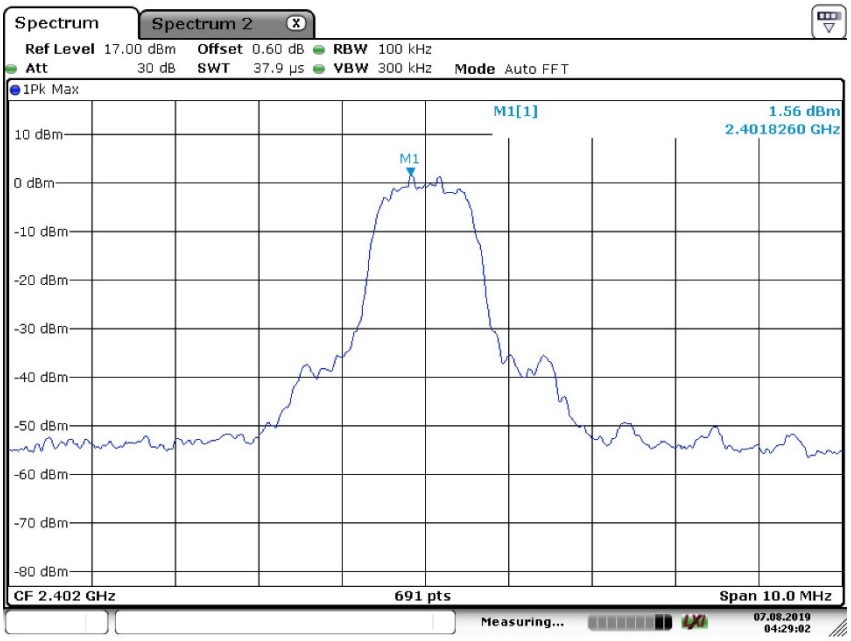



Date: 7.AUG.2019 05:04:15

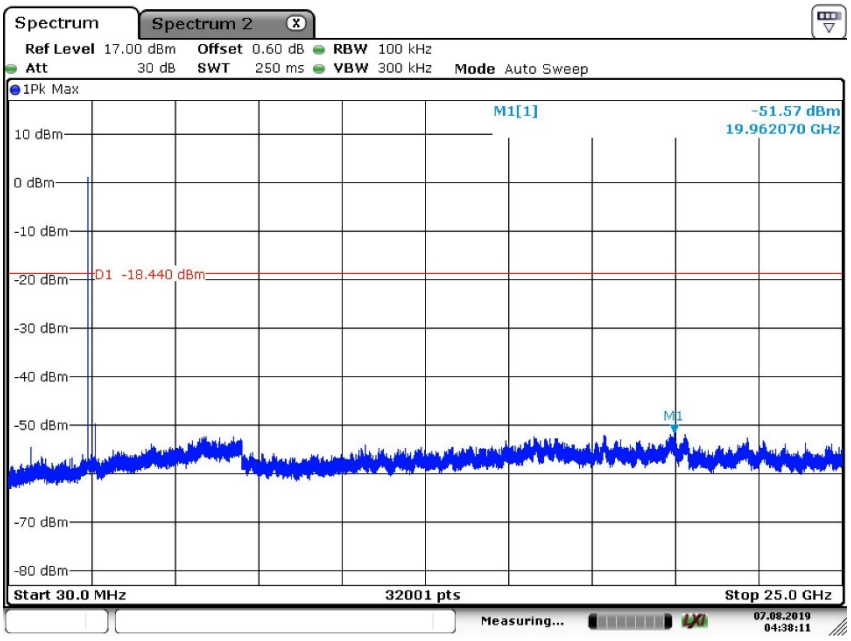



Date: 7.AUG.2019 05:06:43

## EDR Mode, Low Channel

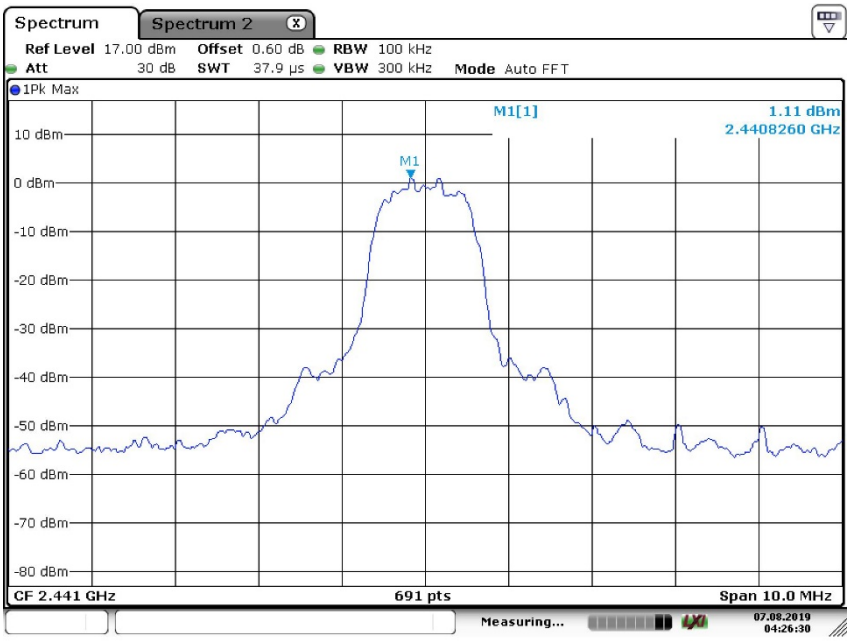



Date: 7.AUG.2019 04:29:02

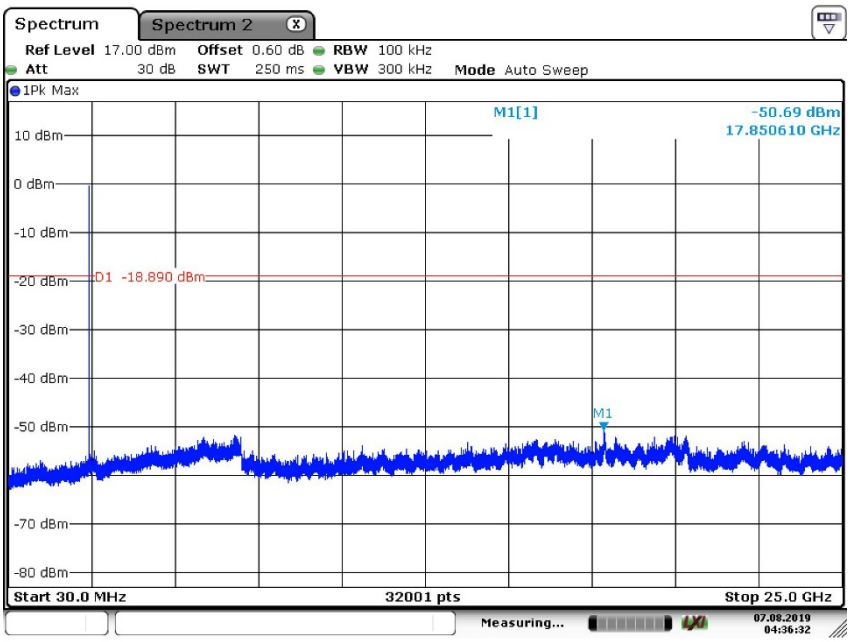



Date: 7.AUG.2019 04:38:11

## EDR Mode, Middle Channel

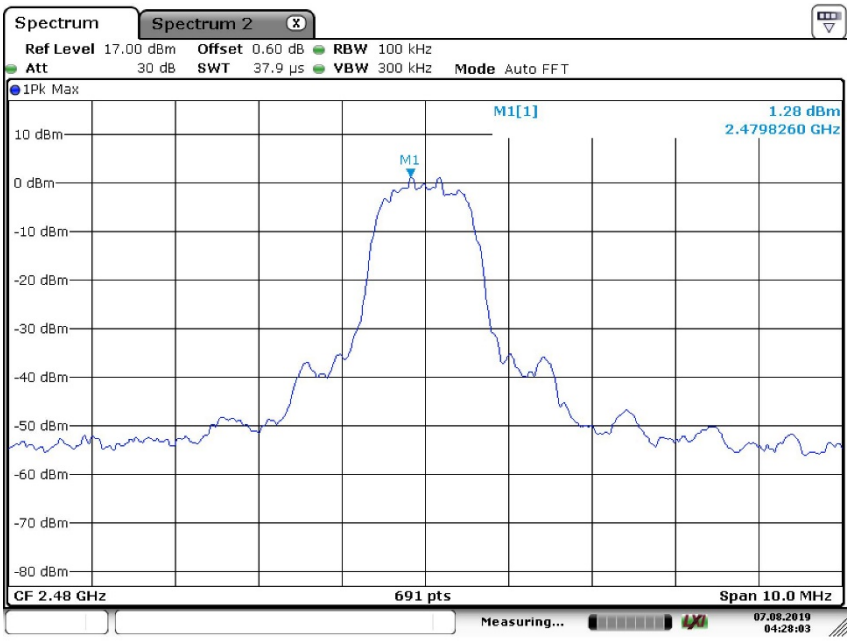



Date: 7.AUG.2019 04:26:30

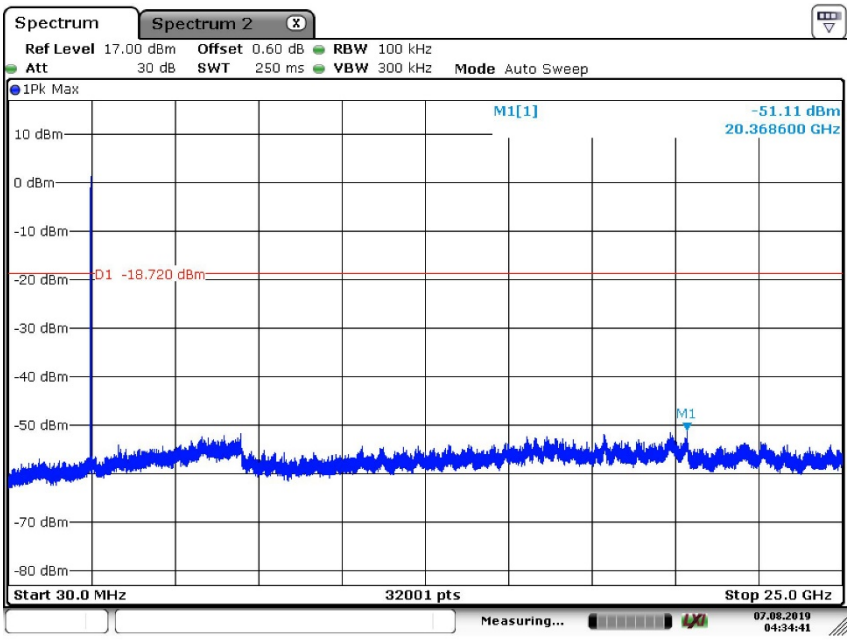



Date: 7.AUG.2019 04:36:32

## EDR Mode, High Channel

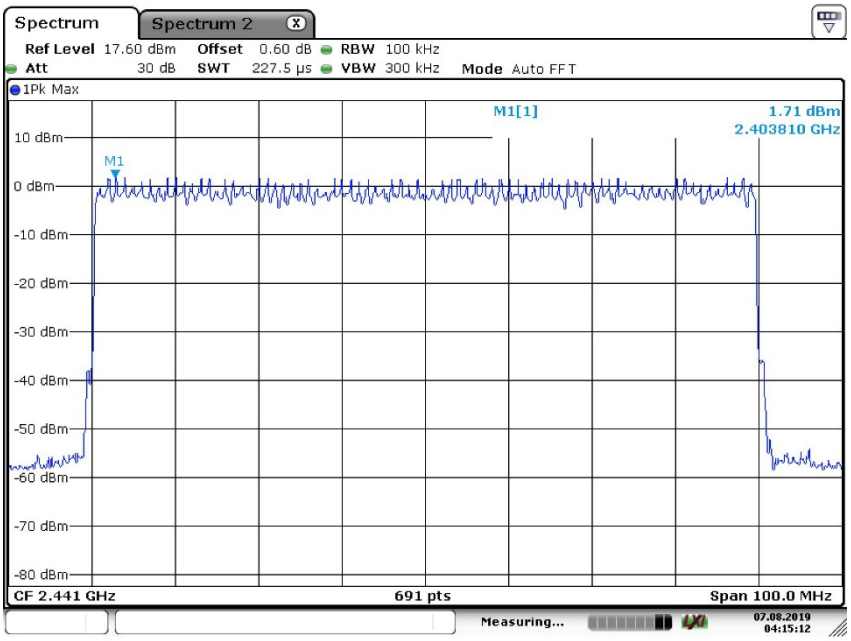



Date: 7.AUG.2019 04:28:03

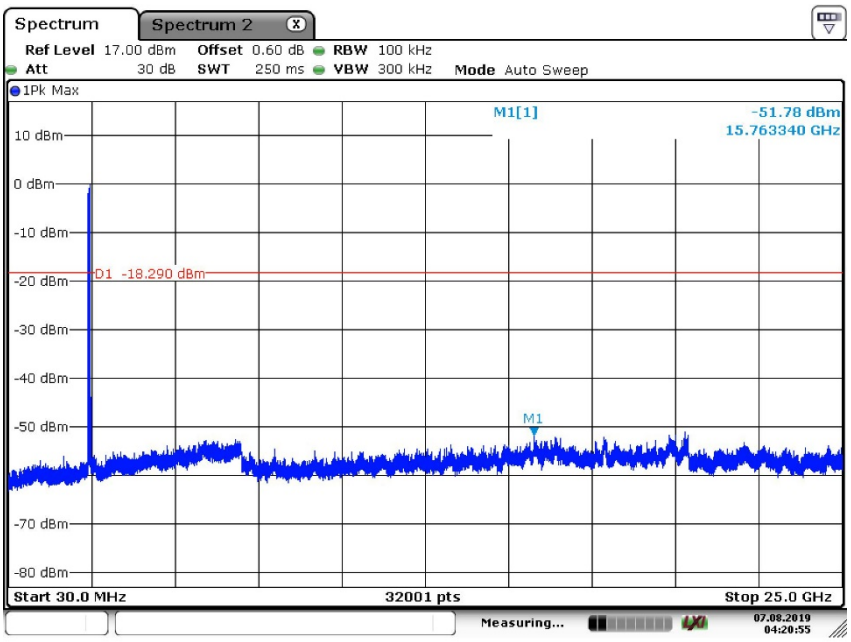



Date: 7.AUG.2019 04:34:41

## EDR, Hopping

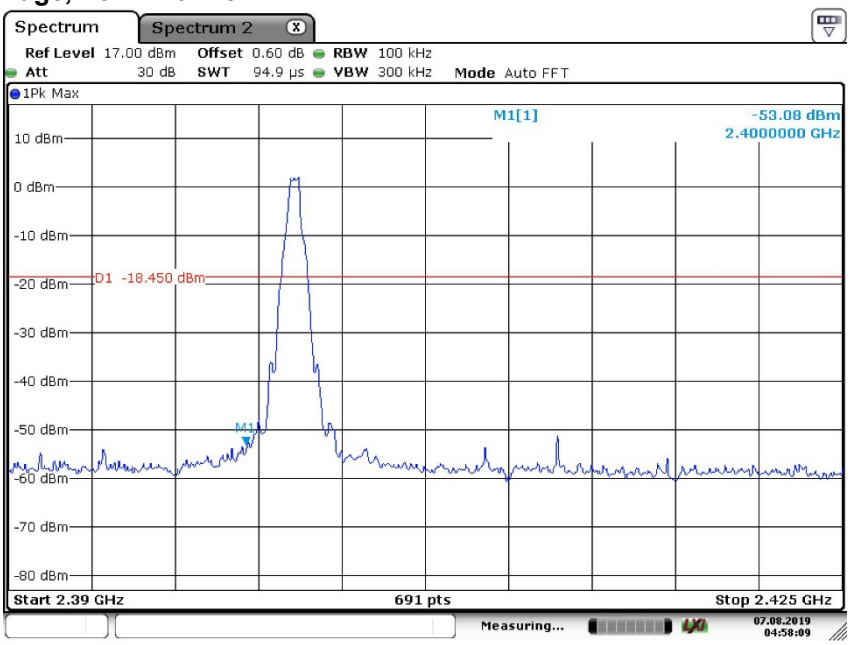



Date: 7.AUG.2019 04:15:12



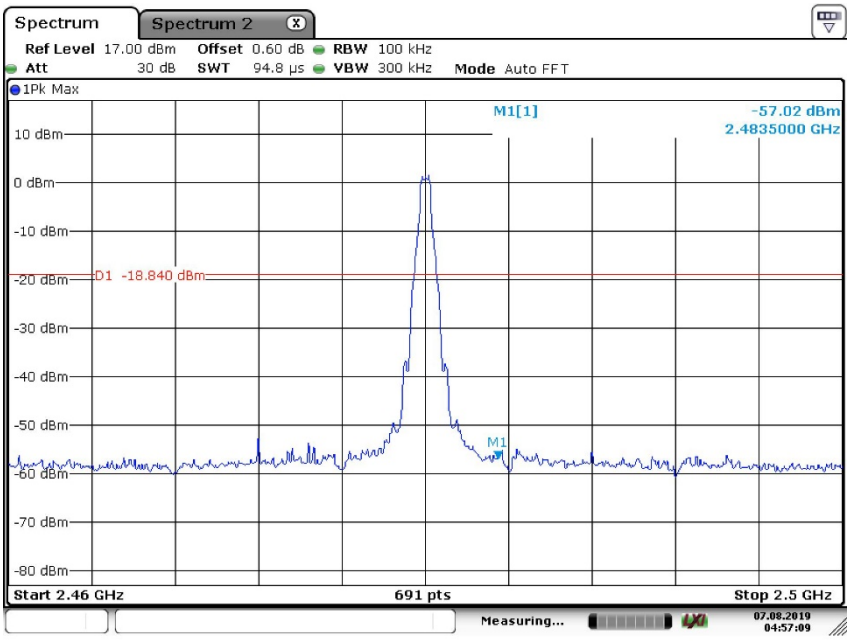

Date: 7.AUG.2019 04:20:55

## BDR Mode, Band Edge, Low Channel



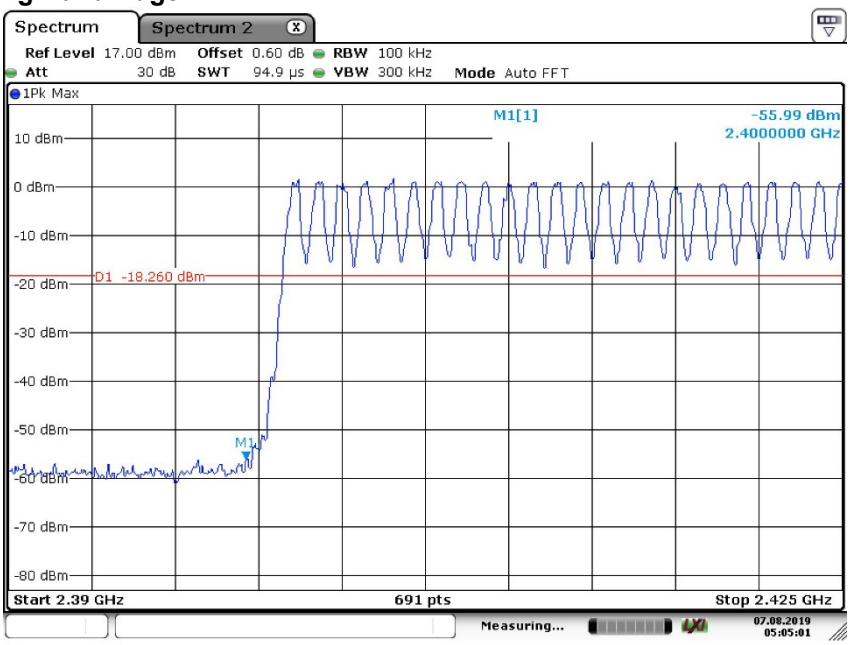

Date: 7.AUG.2019 04:58:09

## BDR Mode, Band Edge, High Channel

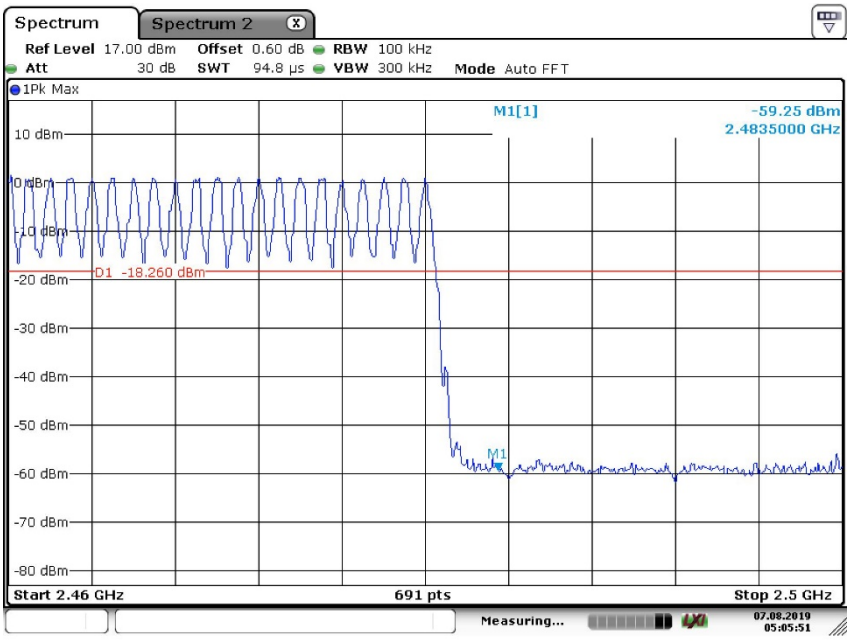



Date: 7.AUG.2019 04:57:09

## BDR Mode, Hopping Band Edge

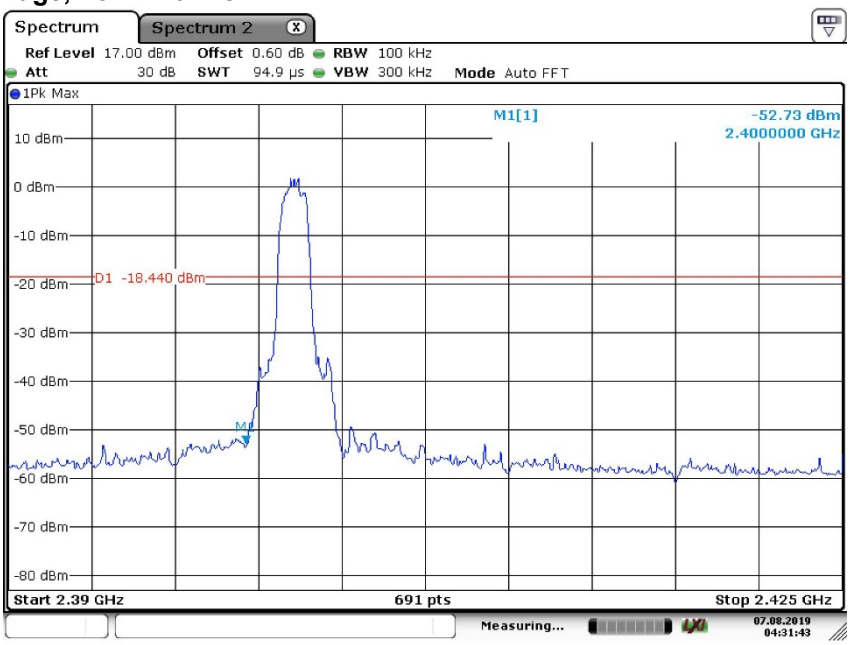



Date: 7.AUG.2019 05:05:02



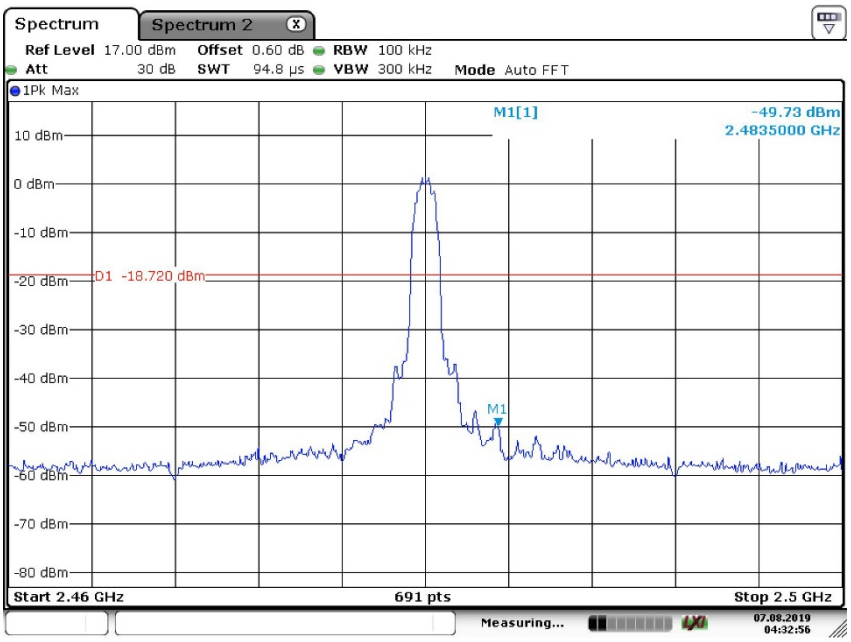

Date: 7.AUG.2019 05:05:51

## EDR Mode, Band Edge, Low Channel



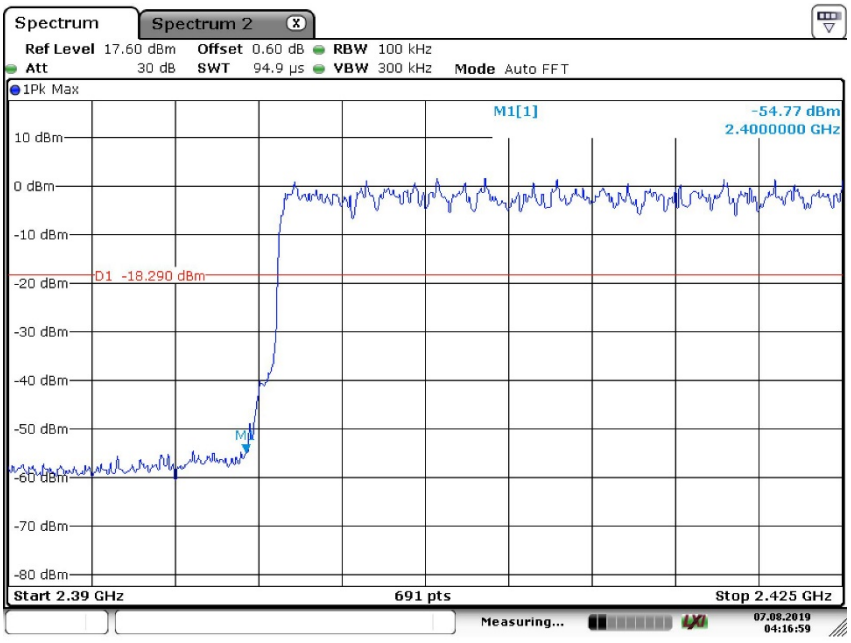

Date: 7.AUG.2019 04:31:43

## EDR Mode, Band Edge, High Channel

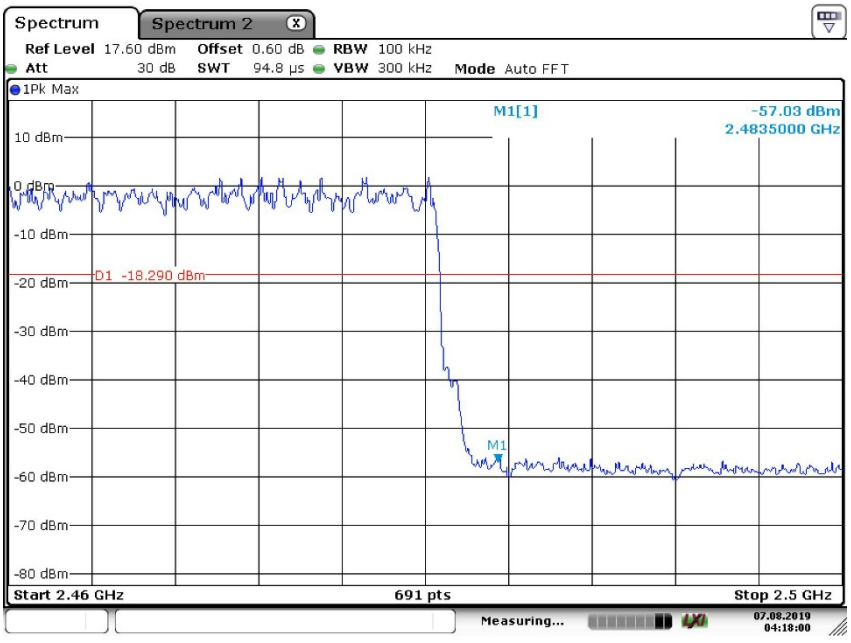



Date: 7.AUG.2019 04:32:56

## EDR Mode, Hopping Band Edge



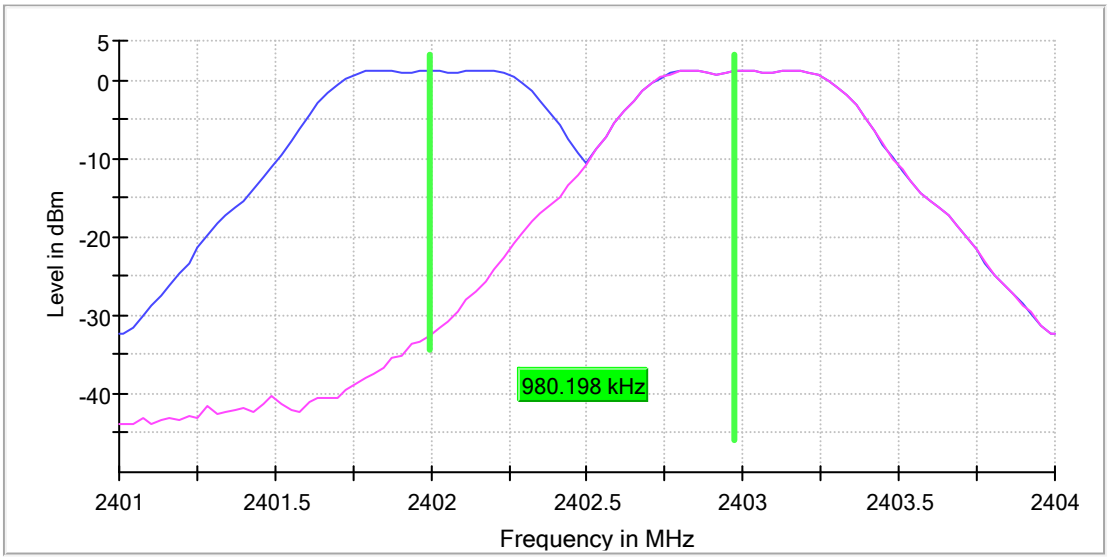

Date: 7.AUG.2019 04:16:59



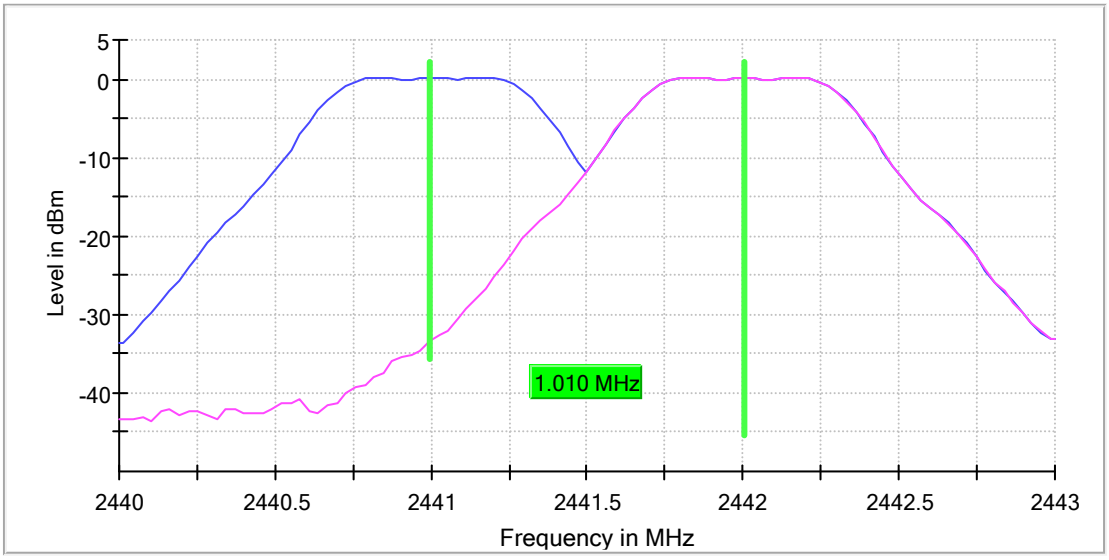

Date: 7.AUG.2019 04:18:00

## Appendix B.4: Test Plots of Carrier Frequency Separation

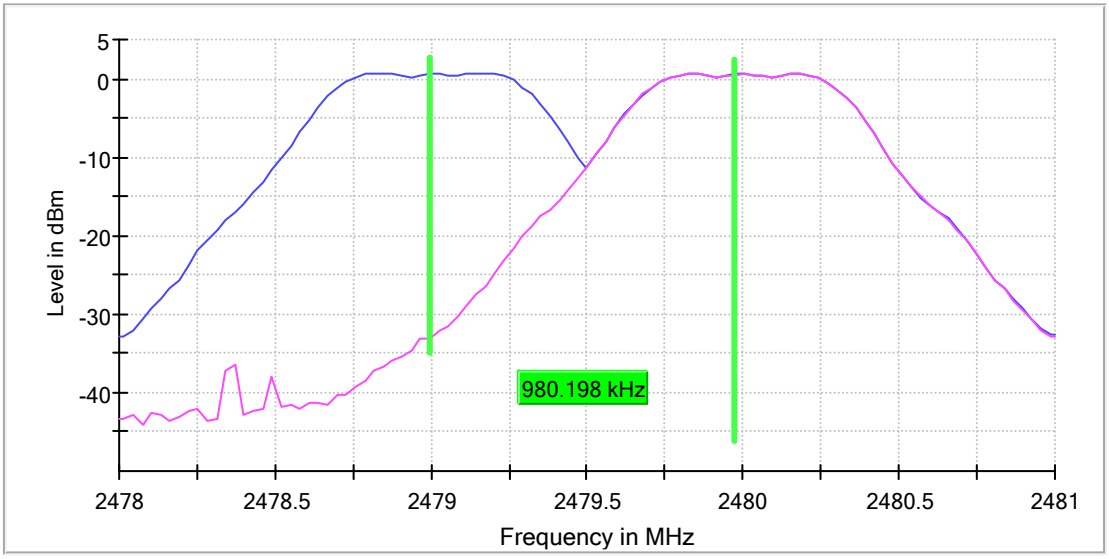
**BDR, Low Channel**
RBW=300KHz, VBW=300KHz



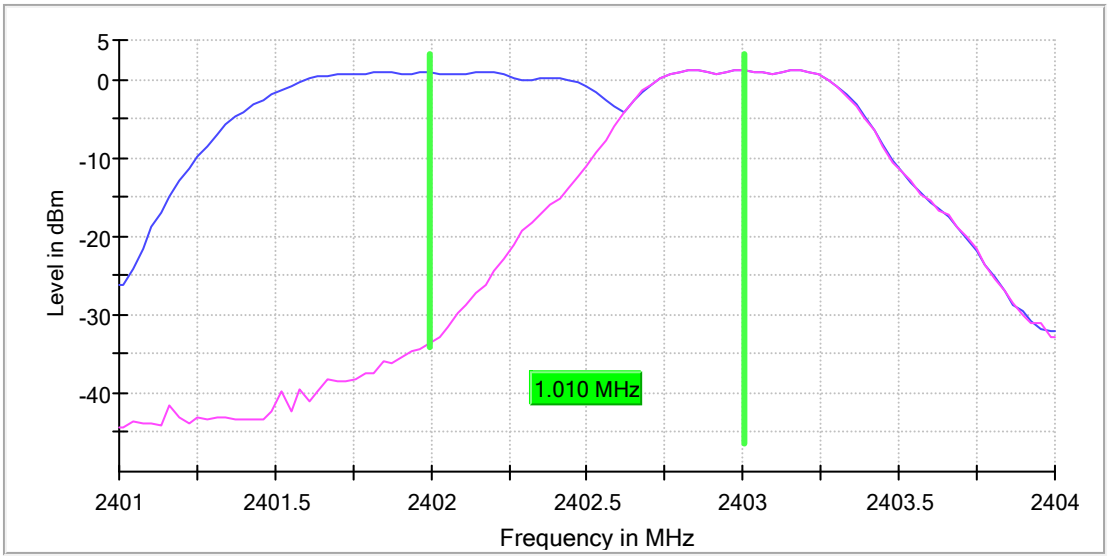

**BDR, Middle Channel**
RBW=300KHz, VBW=300KHz



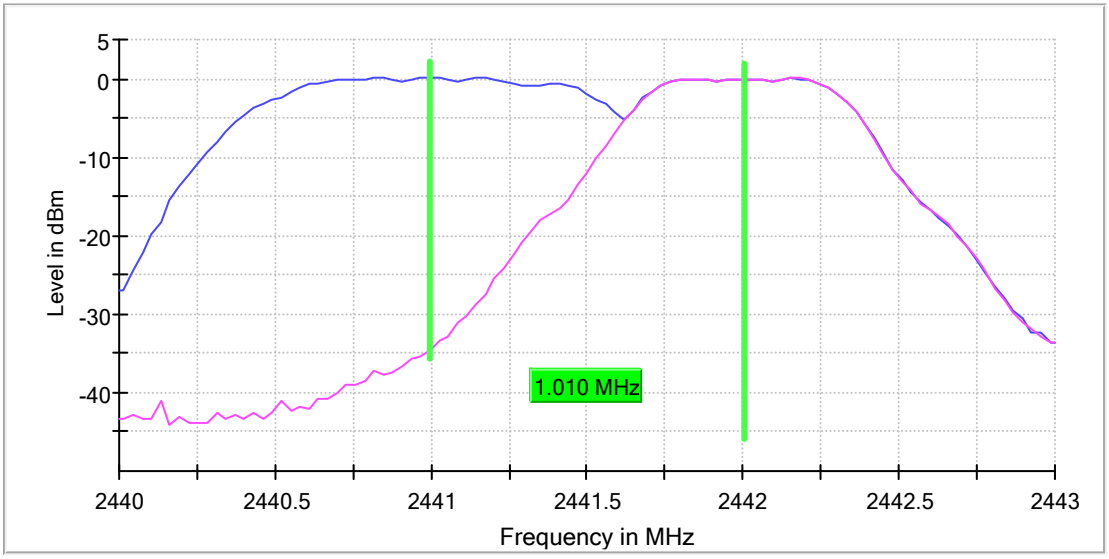
**BDR, High Channel**
RBW=300KHz, VBW=300KHz



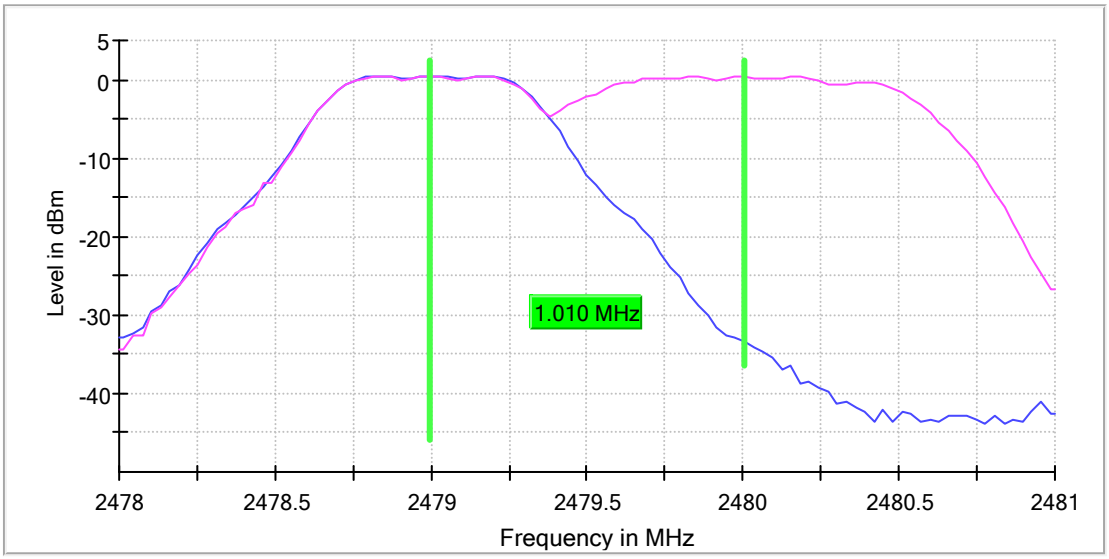

**EDR, Low Channel**
RBW=300KHz, VBW=300KHz



**EDR, Middle Channel**
RBW=300KHz, VBW=300KHz

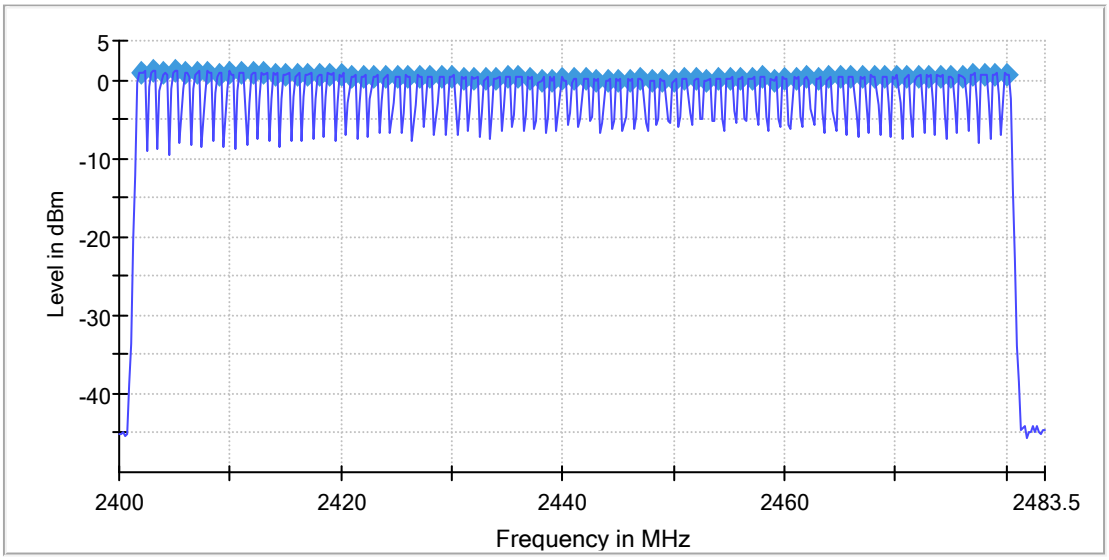



**EDR, High Channel**
RBW=300KHz, VBW=300KHz

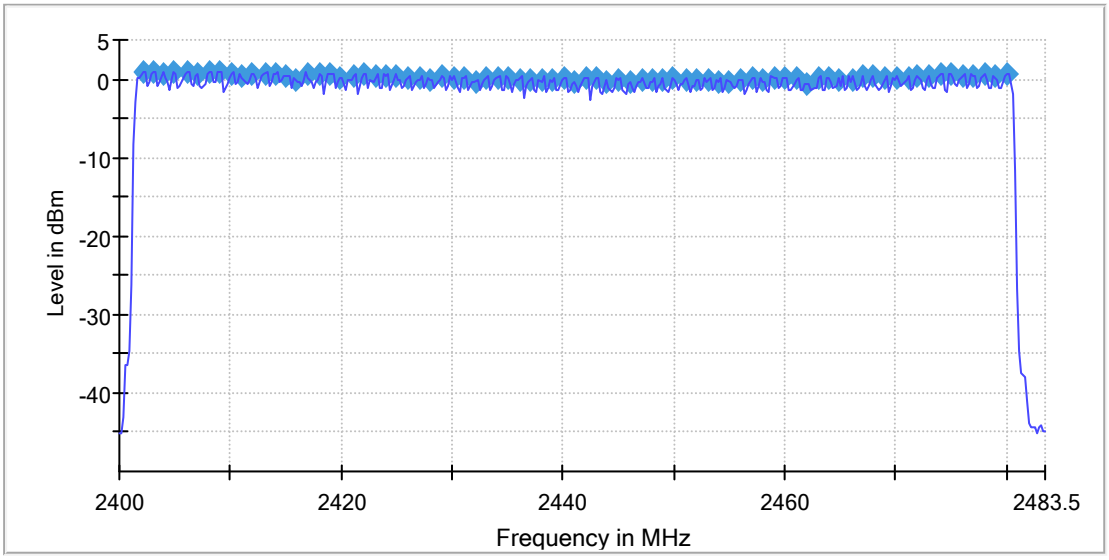


## Appendix B.5: Test Plots of Number of Hopping Frequency

**BDR, Hopping**
RBW=200KHzM, VBW=200KHz

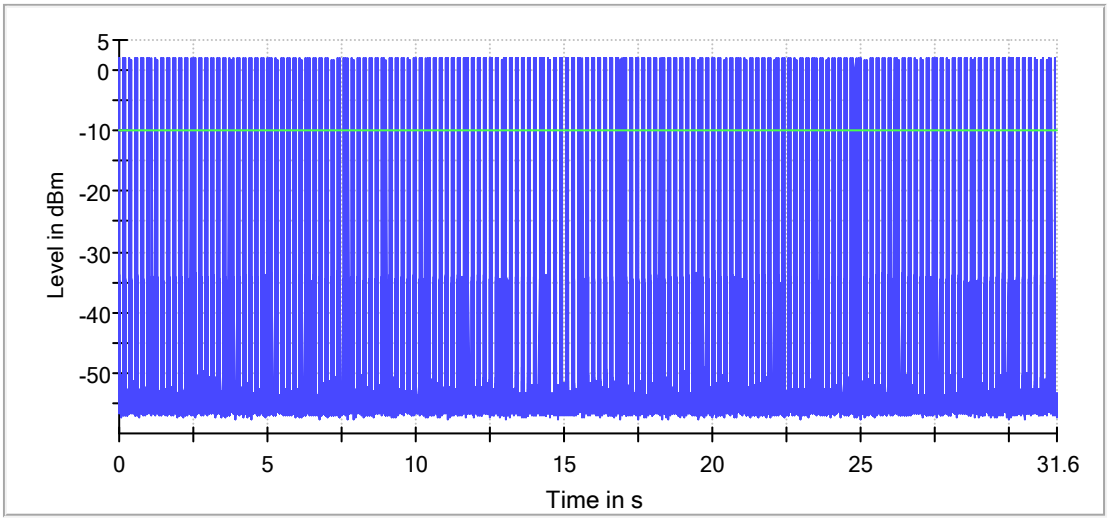



**EDR, Hopping**
RBW=200KHzM, VBW=200KHz

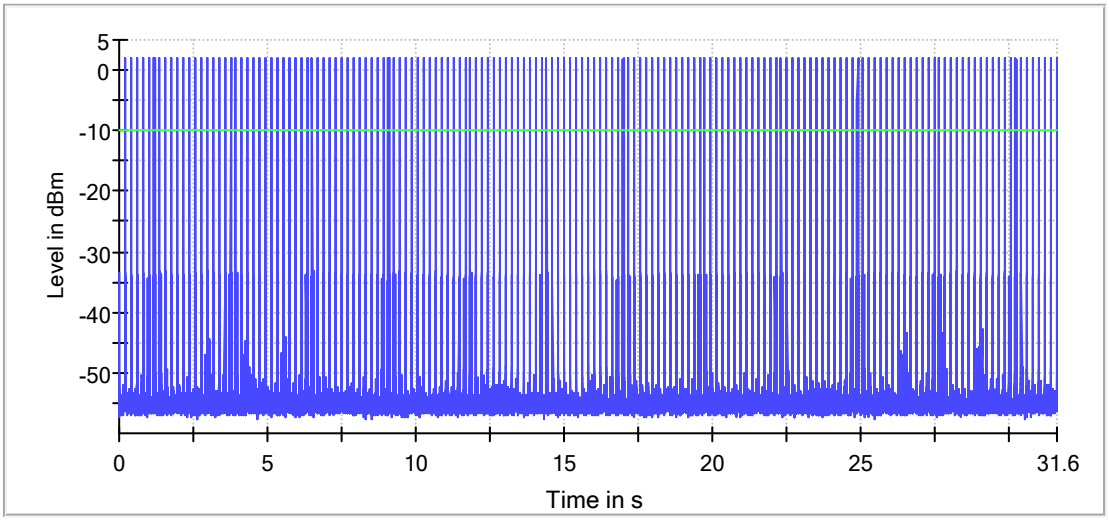


## Appendix B.6: Test Plots of Time of Occupancy

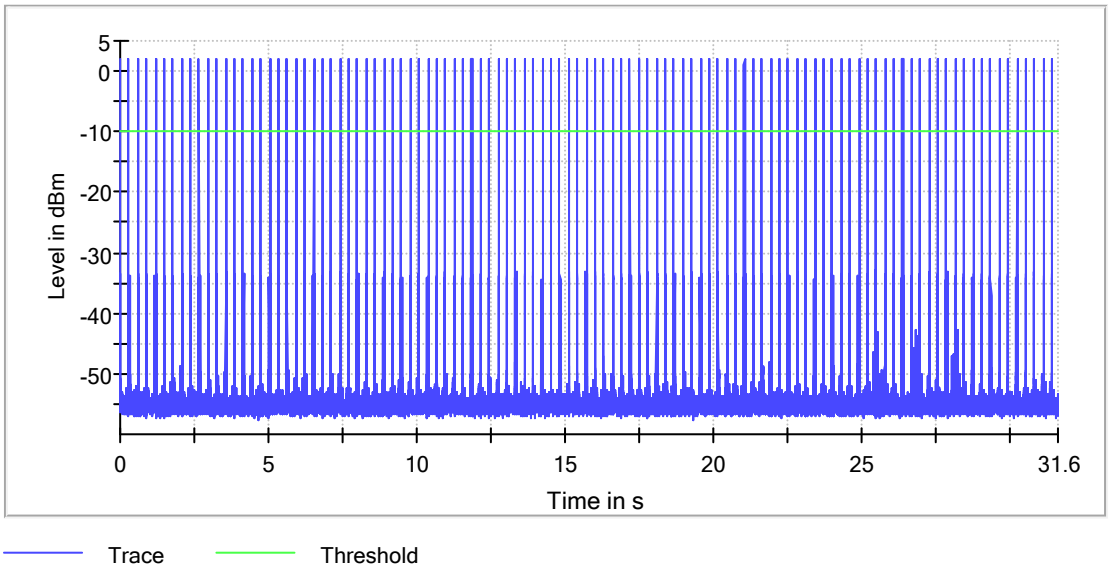
**BDR Mode, DH1, Middle Channel**
RBW=500KHzM, VBW=1MHz



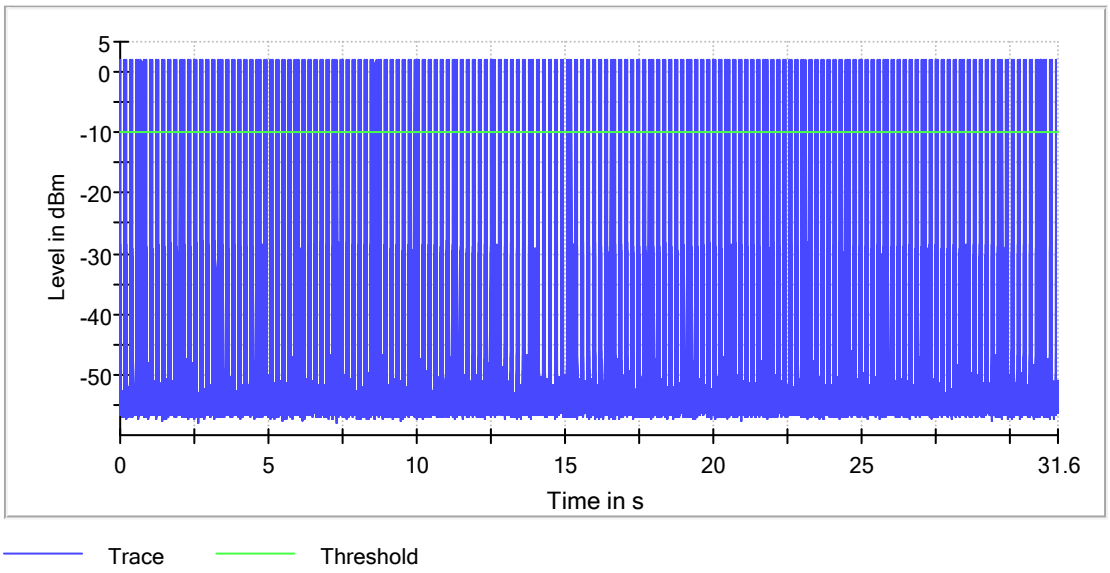

**BDR Mode, DH3, Middle Channel**
RBW=500KHzM, VBW=1MHz



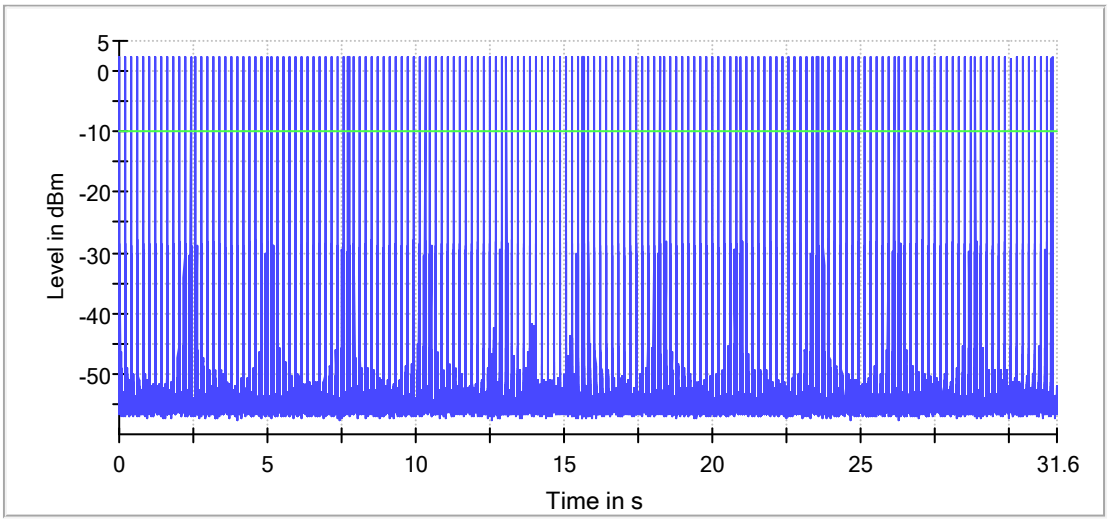
**BDR Mode, DH5, Middle Channel**
RBW=500KHzM, VBW=1MHz



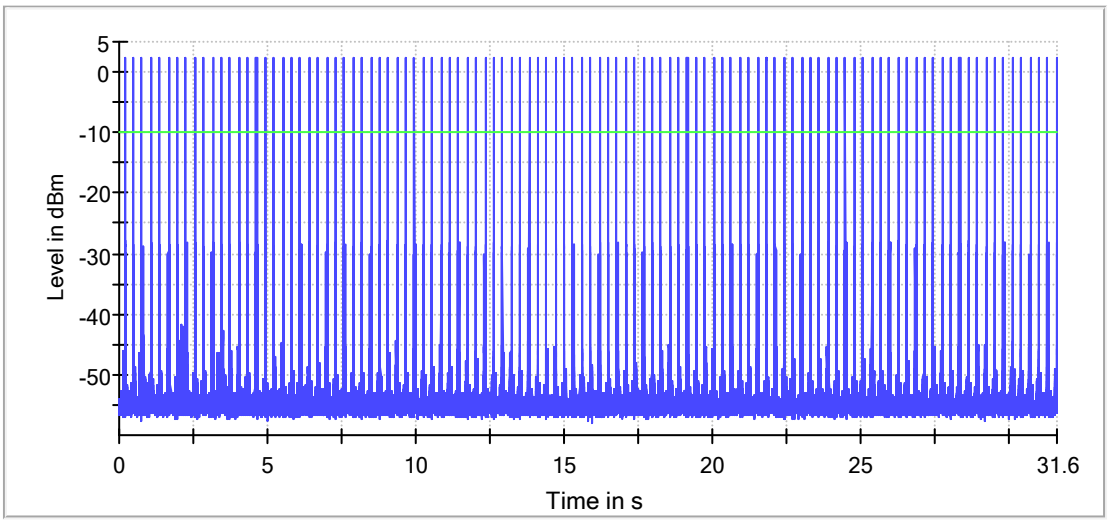

**EDR Mode, 3DH1, Middle Channel**
RBW=500KHzM, VBW=1MHz



**EDR Mode, 3DH3, Middle Channel**
RBW=500KHzM, VBW=1MHz




**EDR Mode, 3DH5, Middle Channel**
RBW=500KHzM, VBW=1MHz



# Appendix C

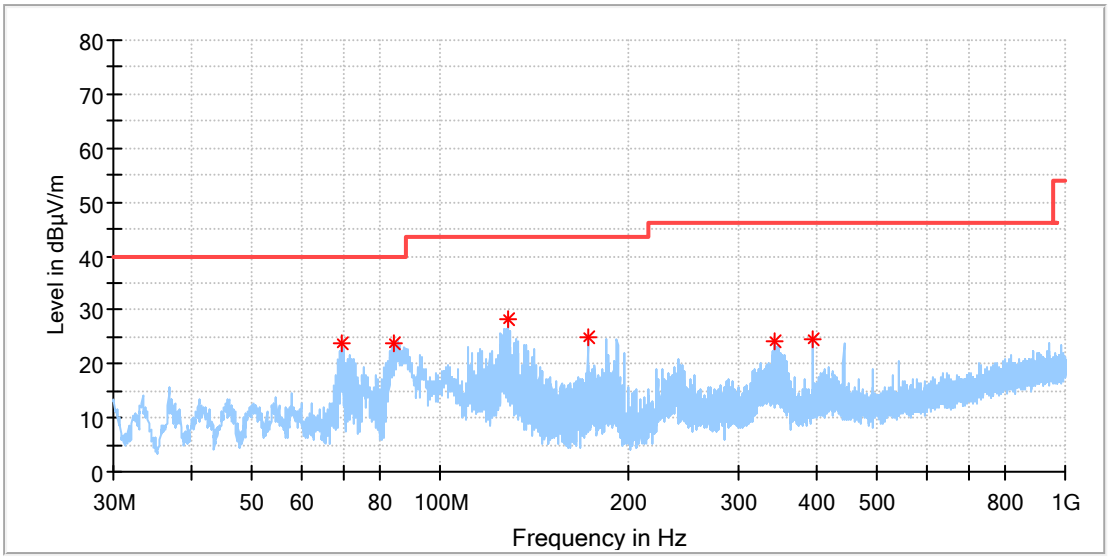
# Test Results of Radiated Emission & AC Mains Conducted Emission

Note: The radiated spurious emission were measured from 9KHz to 26.5GHz, the measurements from 9KHz-30MHz with active loop antenna were greater than 20dB below the limit, so the radiated Spurious Emissions (9kHz – 30MHz) tests were recorded but not showed in the appendix B.

## Appendix C.1: Test Plots of Radiated Spurious Emission

**BDR mode, 30MHz - 1GHz**

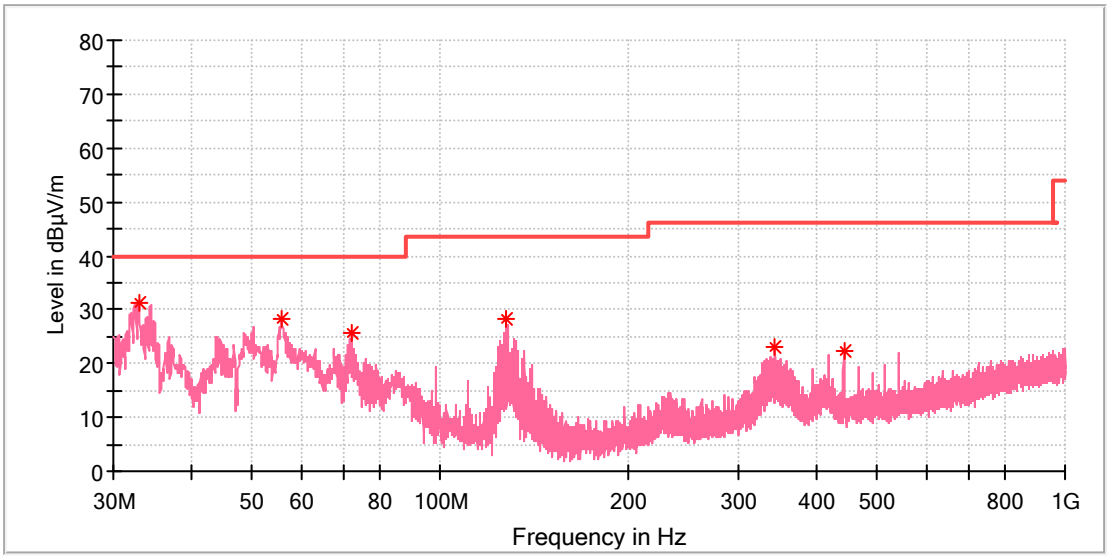
| | |
|---|---|
| EUT Name: | Powered Bookshelf Speakers |
| Model: | S2000MKIII |
| Test Mode: | BT CH0 |




## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 69.673000 | 23.63 | --- | 40.00 | 16.37 | 100.0 | H | 189.0 | -22.0 |
| 84.465500 | 24.00 | --- | 40.00 | 16.00 | 100.0 | H | 189.0 | -22.8 |
| 128.261000 | 28.45 | --- | 43.50 | 15.05 | 100.0 | H | 287.0 | -22.0 |
| 172.008000 | 24.76 | --- | 43.50 | 18.74 | 100.0 | H | 287.0 | -21.5 |
| 342.534000 | 24.29 | --- | 46.00 | 21.71 | 100.0 | H | 274.0 | -15.4 |
| 393.216500 | 24.57 | --- | 46.00 | 21.43 | 100.0 | H | 287.0 | -14.3 |

EUT Name: Powered Bookshelf Speakers
Model: S2000MKIII
Test Mode: BT CH0

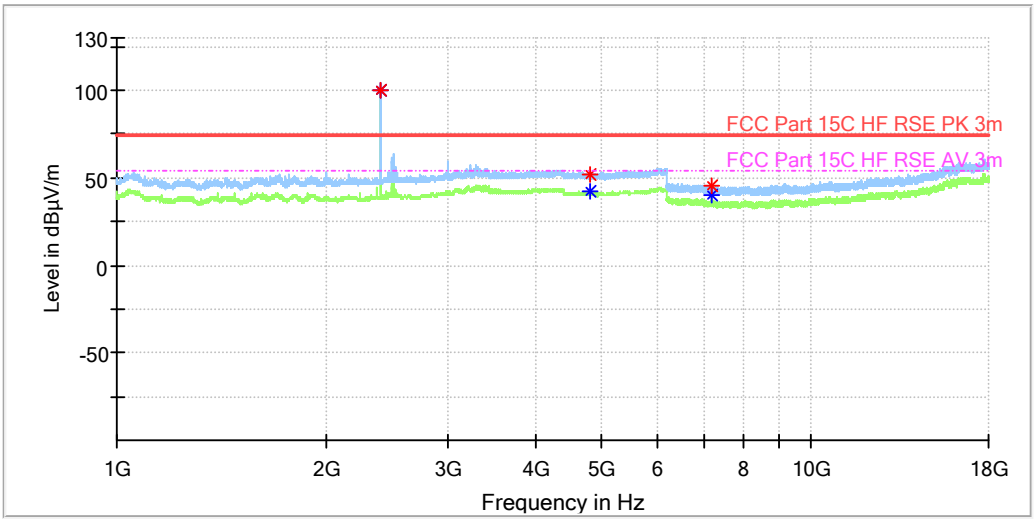



## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 32.910000 | 31.43 | --- | 40.00 | 8.57 | 100.0 | V | 78.0 | -22.8 |
| 55.850500 | 28.10 | --- | 40.00 | 11.90 | 100.0 | V | 168.0 | -18.8 |
| 72.195000 | 25.54 | --- | 40.00 | 14.46 | 100.0 | V | 208.0 | -22.8 |
| 127.485000 | 28.27 | --- | 43.50 | 15.23 | 100.0 | V | 181.0 | -21.9 |
| 344.037500 | 22.93 | --- | 46.00 | 23.07 | 100.0 | V | 85.0 | -15.3 |
| 442.395500 | 22.18 | --- | 46.00 | 23.82 | 100.0 | V | 0.0 | -13.4 |

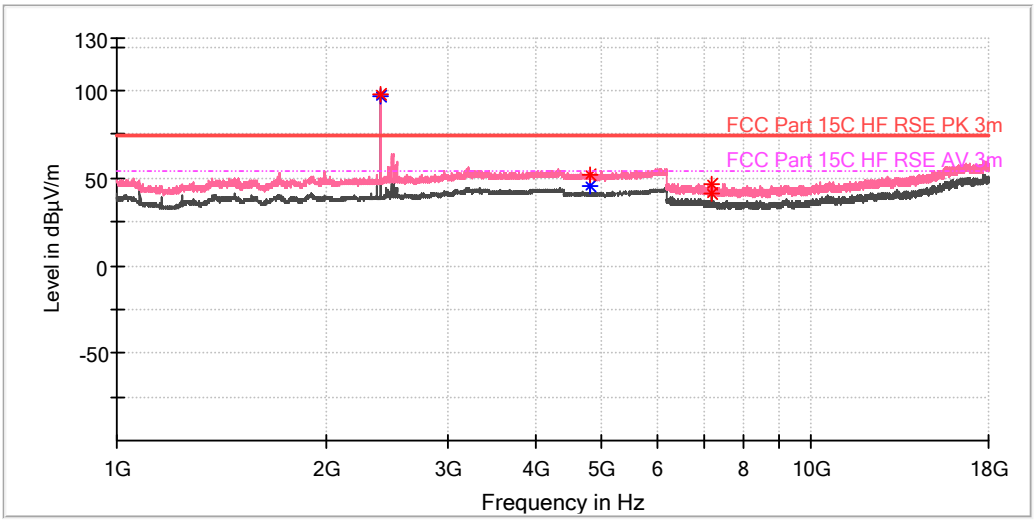
**BDR mode, 1GHz - 18GHz**

EUT Name: Powered Bookshelf Speakers
Model: S2000MKIII
Test Mode: TX BT_GFSK_CH0




## Critical_Freqs

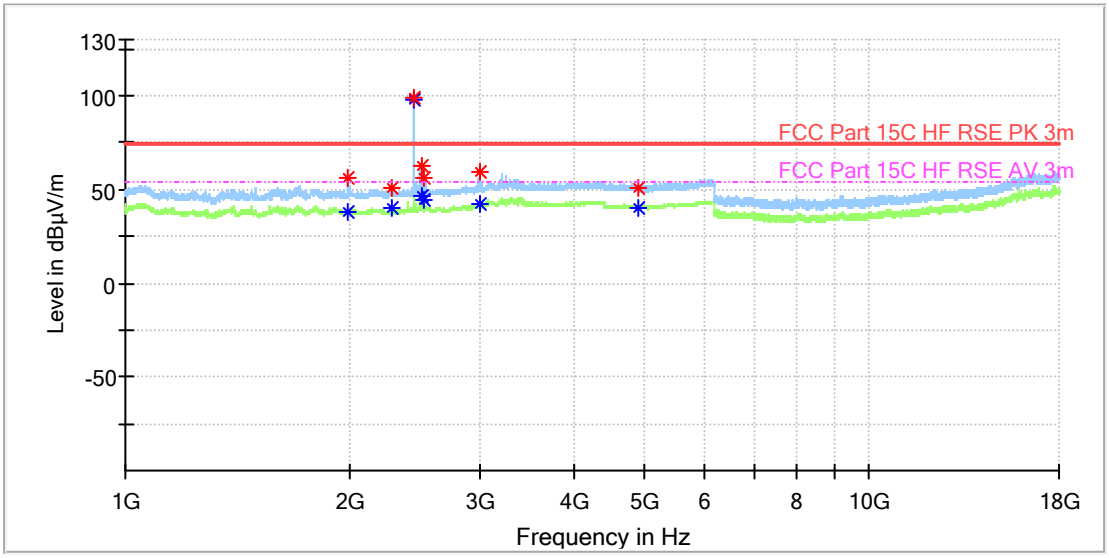
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2402.000000 | --- | 100.07 | 54.00 | -46.07 | 100.0 | H | 127.0 | 7.0 |
| 2402.000000 | 100.54 | --- | 74.00 | -26.54 | 100.0 | H | 127.0 | 7.0 |
| 4804.000000 | --- | 41.90 | 54.00 | 12.10 | 200.0 | H | 260.0 | 13.6 |
| 4804.500000 | 51.46 | --- | 74.00 | 22.54 | 200.0 | H | 31.0 | 13.6 |
| 7205.458333 | 45.81 | --- | 74.00 | 28.19 | 100.0 | H | 114.0 | 8.8 |
| 7205.458333 | --- | 40.32 | 54.00 | 13.68 | 200.0 | H | 141.0 | 8.8 |




## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2402.000000 | --- | 97.12 | 54.00 | -43.12 | 100.0 | V | 151.0 | 7.0 |
| 2402.000000 | 97.46 | --- | 74.00 | -23.46 | 100.0 | V | 151.0 | 7.0 |
| 4804.000000 | --- | 45.30 | 54.00 | 8.70 | 100.0 | V | 75.0 | 13.6 |
| 4805.000000 | 51.92 | --- | 74.00 | 22.08 | 100.0 | V | 103.0 | 13.6 |
| 7205.458333 | 46.28 | --- | 74.00 | 27.72 | 100.0 | V | 80.0 | 8.8 |
| 7207.916667 | 41.65 | --- | 74.00 | 32.35 | 100.0 | V | 330.0 | 8.8 |

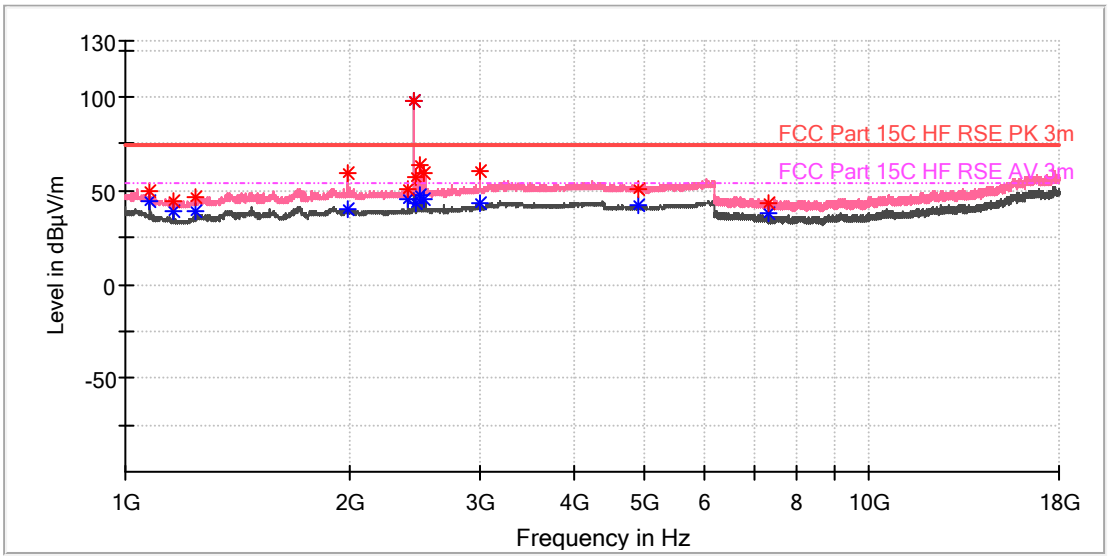
EUT Name: Powered Bookshelf Speakers
Model: S2000MKIII
Test Mode: TX BT_GFSK_CH39




## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1991.000000 | --- | 38.23 | 54.00 | 15.77 | 100.0 | H | 205.0 | 6.0 |
| 1991.000000 | 55.96 | --- | 74.00 | 18.04 | 100.0 | H | 205.0 | 6.0 |
| 2280.000000 | 51.11 | --- | 74.00 | 22.89 | 100.0 | H | 260.0 | 6.4 |
| 2281.000000 | --- | 40.60 | 54.00 | 13.41 | 100.0 | H | 10.0 | 6.4 |
| 2441.000000 | --- | 98.44 | 54.00 | -44.44 | 100.0 | H | 225.0 | 7.4 |
| 2441.000000 | 98.92 | --- | 74.00 | -24.92 | 100.0 | H | 225.0 | 7.4 |
| 2499.000000 | --- | 46.42 | 54.00 | 7.58 | 100.0 | H | 189.0 | 7.4 |
| 2499.500000 | 62.39 | --- | 74.00 | 11.61 | 100.0 | H | 189.0 | 7.4 |
| 2522.000000 | 56.67 | --- | 74.00 | 17.33 | 100.0 | H | 70.0 | 7.5 |
| 2522.500000 | --- | 43.91 | 54.00 | 10.09 | 100.0 | H | 70.0 | 7.5 |
| 2990.000000 | --- | 41.97 | 54.00 | 12.03 | 100.0 | H | 21.0 | 8.5 |
| 2992.500000 | 59.56 | --- | 74.00 | 14.44 | 100.0 | H | 70.0 | 8.5 |
| 4886.000000 | --- | 40.51 | 54.00 | 13.49 | 100.0 | H | 324.0 | 13.3 |
| 4886.000000 | 51.14 | --- | 74.00 | 22.86 | 100.0 | H | 324.0 | 13.3 |

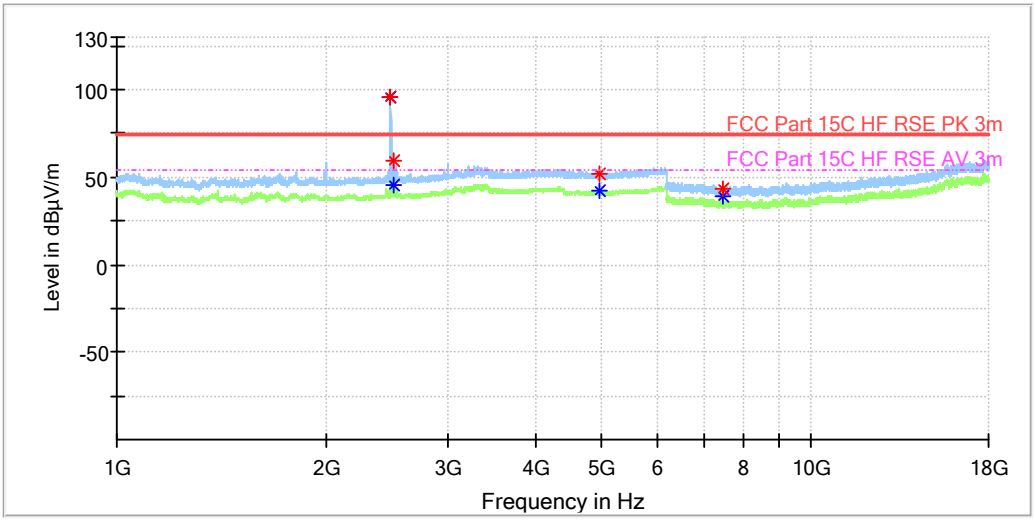
EUT Name: Powered Bookshelf Speakers
Model: S2000MKIII
Test Mode: TX BT_GFSK_CH39




## Critical_Freqs

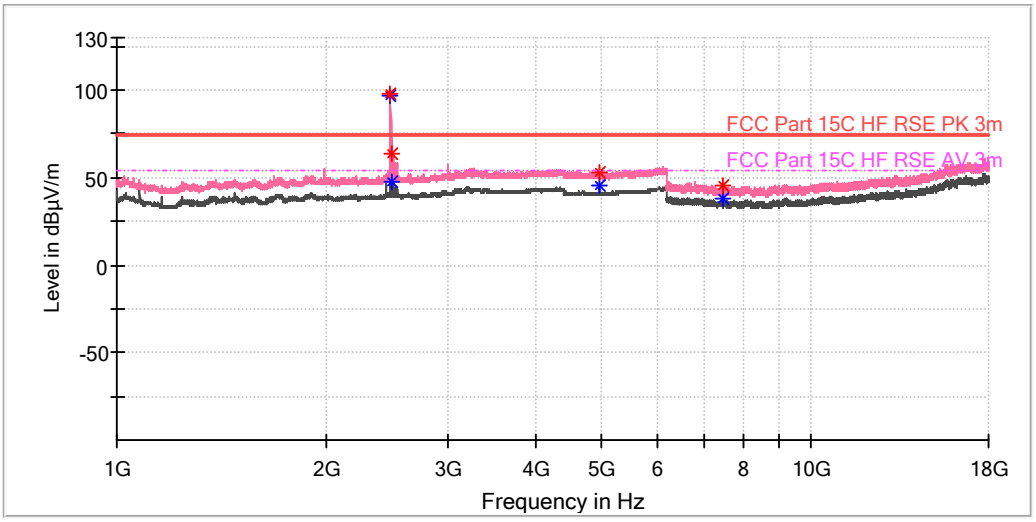
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1080.000000 | --- | 44.21 | 54.00 | 9.79 | 100.0 | V | 290.0 | -0.2 |
| 1080.000000 | 49.31 | --- | 74.00 | 24.69 | 100.0 | V | 290.0 | -0.2 |
| 1159.500000 | --- | 38.84 | 54.00 | 15.16 | 100.0 | V | 247.0 | 0.8 |
| 1160.500000 | 44.87 | --- | 74.00 | 29.13 | 100.0 | V | 233.0 | 0.9 |
| 1239.500000 | 46.07 | --- | 74.00 | 27.93 | 100.0 | V | 332.0 | 1.7 |
| 1240.000000 | --- | 39.05 | 54.00 | 14.95 | 100.0 | V | 339.0 | 1.7 |
| 1992.500000 | --- | 39.93 | 54.00 | 14.07 | 100.0 | V | 79.0 | 6.0 |
| 1992.500000 | 59.08 | --- | 74.00 | 14.92 | 100.0 | V | 79.0 | 6.0 |
| 2400.500000 | 50.74 | --- | 74.00 | 23.26 | 100.0 | V | 276.0 | 7.0 |
| 2401.000000 | --- | 45.27 | 54.00 | 8.73 | 100.0 | V | 276.0 | 7.0 |
| 2441.000000 | --- | 97.69 | 54.00 | -43.69 | 100.0 | V | 240.0 | 7.4 |
| 2441.000000 | 98.23 | --- | 74.00 | -24.23 | 100.0 | V | 240.0 | 7.4 |
| 2463.000000 | --- | 43.10 | 54.00 | 10.90 | 100.0 | V | 205.0 | 7.4 |
| 2463.000000 | 56.98 | --- | 74.00 | 17.02 | 100.0 | V | 205.0 | 7.4 |
| 2494.000000 | --- | 47.12 | 54.00 | 6.88 | 100.0 | V | 15.0 | 7.4 |
| 2494.000000 | 64.18 | --- | 74.00 | 9.82 | 100.0 | V | 15.0 | 7.4 |
| 2522.000000 | --- | 45.04 | 54.00 | 8.96 | 100.0 | V | 135.0 | 7.5 |
| 2522.000000 | 58.97 | --- | 74.00 | 15.03 | 100.0 | V | 135.0 | 7.5 |
| 2990.500000 | --- | 42.94 | 54.00 | 11.06 | 100.0 | V | 135.0 | 8.5 |
| 2990.500000 | 60.39 | --- | 74.00 | 13.61 | 100.0 | V | 135.0 | 8.5 |
| 4882.000000 | --- | 42.78 | 54.00 | 11.22 | 100.0 | V | 91.0 | 13.4 |
| 4882.500000 | 51.25 | --- | 74.00 | 22.75 | 100.0 | V | 91.0 | 13.4 |
| 7322.966667 | 43.26 | --- | 74.00 | 30.74 | 100.0 | V | 96.0 | 8.2 |
| 7322.966667 | --- | 37.70 | 54.00 | 16.30 | 100.0 | V | 96.0 | 8.2 |

EUT Name: Powered Bookshelf Speakers
Model: S2000MKIII
Test Mode: TX BT_GFSK_CH78




## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2480.000000 | --- | 95.61 | 54.00 | -41.61 | 100.0 | H | 109.0 | 7.4 |
| 2480.000000 | 95.87 | --- | 74.00 | -21.87 | 100.0 | H | 109.0 | 7.4 |
| 2498.500000 | --- | 45.16 | 54.00 | 8.84 | 100.0 | H | 88.0 | 7.4 |
| 2499.500000 | 59.93 | --- | 74.00 | 14.07 | 100.0 | H | 88.0 | 7.4 |
| 4958.000000 | 52.35 | --- | 74.00 | 21.65 | 100.0 | H | 2.0 | 13.2 |
| 4960.000000 | --- | 41.89 | 54.00 | 12.11 | 100.0 | H | 170.0 | 13.2 |
| 7439.983333 | 42.97 | --- | 74.00 | 31.03 | 100.0 | H | 102.0 | 8.4 |
| 7439.983333 | --- | 39.31 | 54.00 | 14.69 | 100.0 | H | 102.0 | 8.4 |

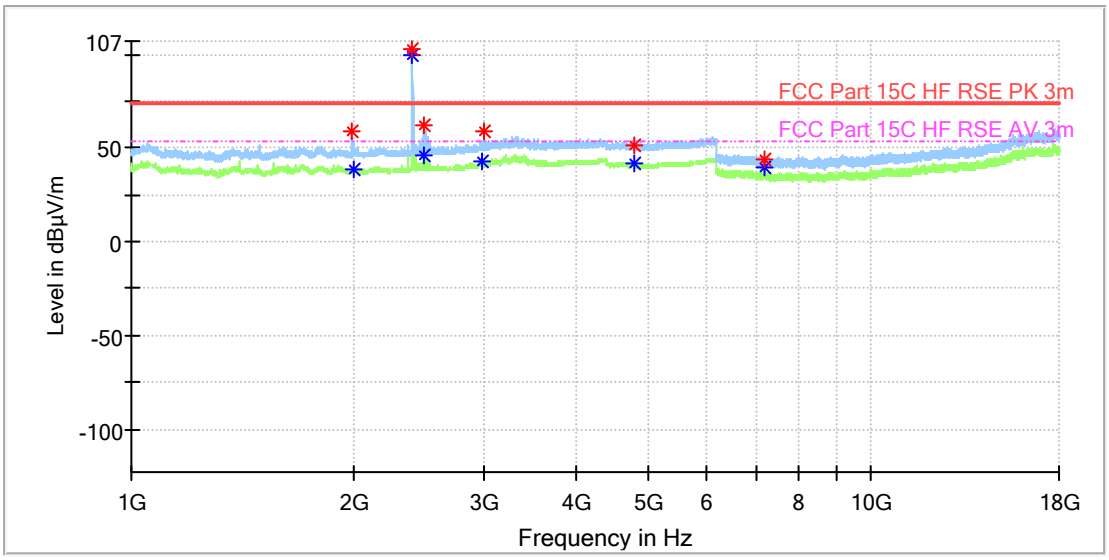



## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2480.000000 | 97.54 | --- | 74.00 | -23.54 | 100.0 | V | 253.0 | 7.4 |
| 2480.000000 | --- | 97.14 | 54.00 | -43.14 | 100.0 | V | 253.0 | 7.4 |
| 2492.000000 | --- | 47.67 | 54.00 | 6.33 | 100.0 | V | 15.0 | 7.4 |
| 2492.000000 | 63.67 | --- | 74.00 | 10.33 | 100.0 | V | 15.0 | 7.4 |
| 4959.500000 | 53.10 | --- | 74.00 | 20.90 | 100.0 | V | 110.0 | 13.2 |
| 4960.000000 | --- | 45.19 | 54.00 | 8.81 | 100.0 | V | 110.0 | 13.2 |
| 7439.983333 | --- | 38.34 | 54.00 | 15.66 | 100.0 | V | 86.0 | 8.4 |
| 7440.475000 | 45.27 | --- | 74.00 | 28.73 | 100.0 | V | 99.0 | 8.4 |

**EDR mode, 1GHz - 18GHz**

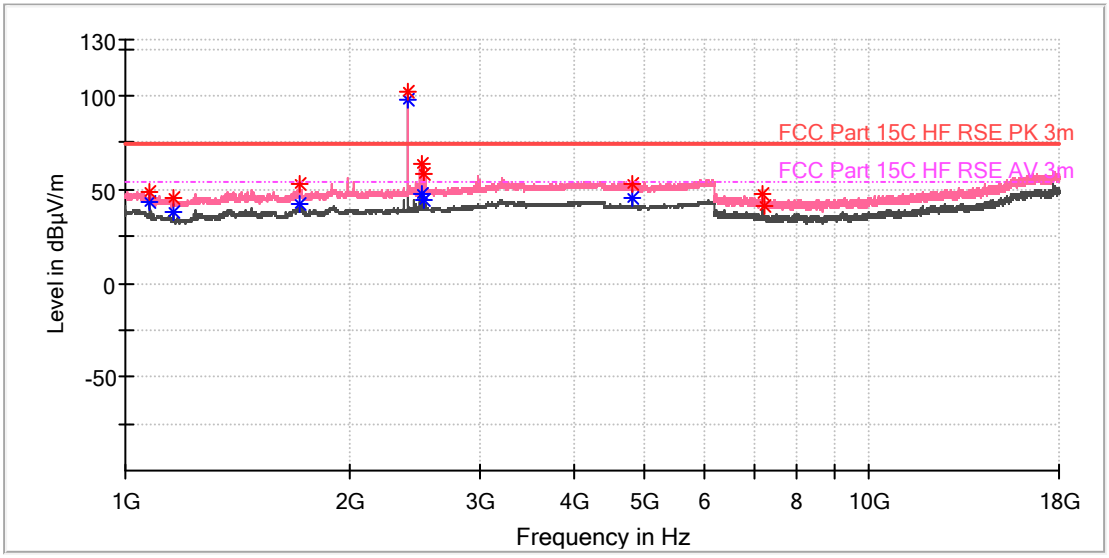
EUT Name: Powered Bookshelf Speakers
Model: S2000MKIII
Test Mode: TX BT_8DPSK_CH0




## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1991.000000 | 58.51 | --- | 74.00 | 15.49 | 100.0 | H | 187.0 | 6.0 |
| 1993.500000 | --- | 38.72 | 54.00 | 15.28 | 100.0 | H | 187.0 | 6.0 |
| 2402.000000 | --- | 99.03 | 54.00 | -45.03 | 100.0 | H | 123.0 | 7.0 |
| 2402.500000 | 102.35 | --- | 74.00 | -28.35 | 100.0 | H | 123.0 | 7.0 |
| 2489.500000 | --- | 46.15 | 54.00 | 7.85 | 100.0 | H | 187.0 | 7.4 |
| 2489.500000 | 61.59 | --- | 74.00 | 12.41 | 100.0 | H | 187.0 | 7.4 |
| 2987.500000 | --- | 42.47 | 54.00 | 11.53 | 100.0 | H | 286.0 | 8.5 |
| 2991.500000 | 59.19 | --- | 74.00 | 14.81 | 100.0 | H | 45.0 | 8.5 |
| 4804.000000 | --- | 42.25 | 54.00 | 11.75 | 100.0 | H | 226.0 | 13.6 |
| 4804.000000 | 51.89 | --- | 74.00 | 22.11 | 100.0 | H | 226.0 | 13.6 |
| 7205.458333 | 43.83 | --- | 74.00 | 30.17 | 100.0 | H | 102.0 | 8.8 |
| 7205.458333 | --- | 39.42 | 54.00 | 14.58 | 100.0 | H | 102.0 | 8.8 |

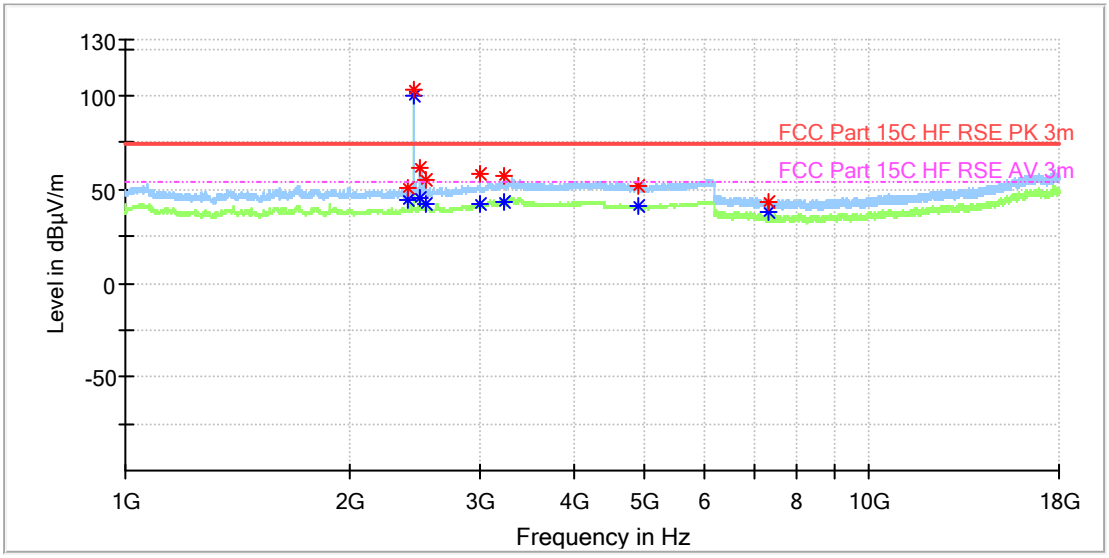
EUT Name: Powered Bookshelf Speakers
Model: S2000MKIII
Test Mode: TX BT_8DPSK_CH0




## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1080.000000 | --- | 43.78 | 54.00 | 10.22 | 100.0 | V | 296.0 | -0.2 |
| 1080.000000 | 48.58 | --- | 74.00 | 25.42 | 100.0 | V | 296.0 | -0.2 |
| 1159.500000 | 45.69 | --- | 74.00 | 28.31 | 100.0 | V | 122.0 | 0.8 |
| 1160.000000 | --- | 37.76 | 54.00 | 16.24 | 100.0 | V | 122.0 | 0.9 |
| 1712.500000 | 52.78 | --- | 74.00 | 21.22 | 100.0 | V | 288.0 | 3.4 |
| 1713.000000 | --- | 42.00 | 54.00 | 12.00 | 100.0 | V | 288.0 | 3.4 |
| 2402.000000 | --- | 98.04 | 54.00 | -44.04 | 100.0 | V | 136.0 | 7.0 |
| 2402.000000 | 101.80 | --- | 74.00 | -27.80 | 100.0 | V | 136.0 | 7.0 |
| 2499.000000 | --- | 47.37 | 54.00 | 6.63 | 100.0 | V | 115.0 | 7.4 |
| 2499.500000 | 64.02 | --- | 74.00 | 9.98 | 100.0 | V | 115.0 | 7.4 |
| 2522.000000 | --- | 44.81 | 54.00 | 9.19 | 100.0 | V | 218.0 | 7.5 |
| 2523.500000 | 58.50 | --- | 74.00 | 15.50 | 100.0 | V | 136.0 | 7.5 |
| 4803.500000 | 52.96 | --- | 74.00 | 21.04 | 100.0 | V | 79.0 | 13.6 |
| 4804.000000 | --- | 45.20 | 54.00 | 8.80 | 100.0 | V | 86.0 | 13.6 |
| 7206.441667 | 47.24 | --- | 74.00 | 26.76 | 100.0 | V | 74.0 | 8.8 |
| 7223.158333 | 41.56 | --- | 74.00 | 32.44 | 100.0 | V | 140.0 | 8.7 |

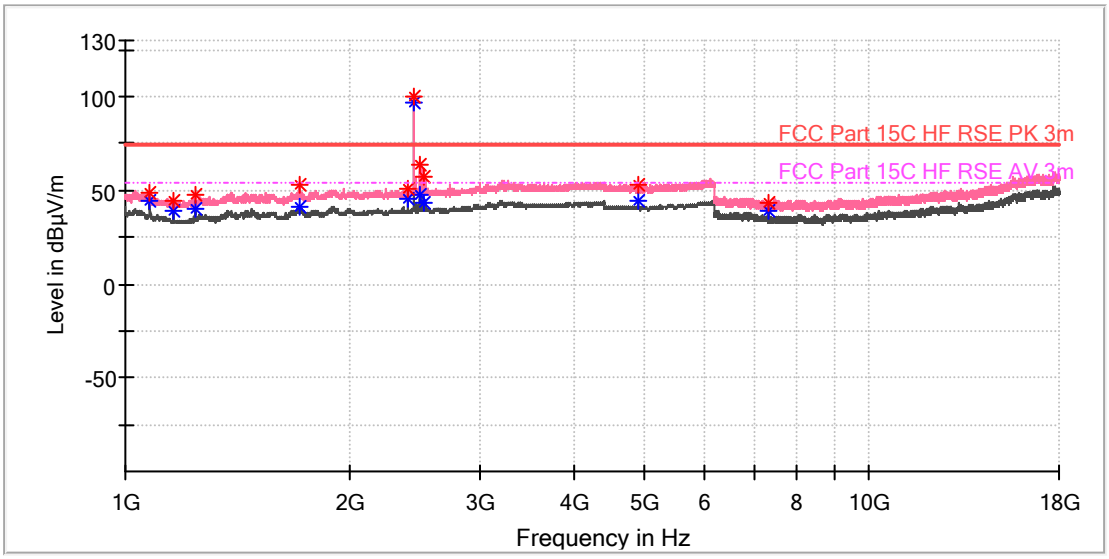
EUT Name: Powered Bookshelf Speakers
Model: S2000MKIII
Test Mode: TX BT_8DPSK_CH39




## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2401.000000 | --- | 44.04 | 54.00 | 9.96 | 100.0 | H | 124.0 | 7.0 |
| 2401.000000 | 50.64 | --- | 74.00 | 23.36 | 100.0 | H | 124.0 | 7.0 |
| 2441.000000 | --- | 100.17 | 54.00 | -46.17 | 100.0 | H | 124.0 | 7.4 |
| 2441.000000 | 103.67 | --- | 74.00 | -29.67 | 100.0 | H | 124.0 | 7.4 |
| 2492.500000 | --- | 45.83 | 54.00 | 8.17 | 100.0 | H | 47.0 | 7.4 |
| 2493.000000 | 61.25 | --- | 74.00 | 12.75 | 100.0 | H | 47.0 | 7.4 |
| 2529.500000 | --- | 42.08 | 54.00 | 11.92 | 100.0 | H | 188.0 | 7.5 |
| 2529.500000 | 55.33 | --- | 74.00 | 18.67 | 100.0 | H | 188.0 | 7.5 |
| 2994.500000 | --- | 42.04 | 54.00 | 11.96 | 100.0 | H | 10.0 | 8.5 |
| 2997.000000 | 58.61 | --- | 74.00 | 15.39 | 100.0 | H | 26.0 | 8.5 |
| 3237.500000 | 56.93 | --- | 74.00 | 17.07 | 100.0 | H | 26.0 | 8.5 |
| 3238.000000 | --- | 43.62 | 54.00 | 10.38 | 100.0 | H | 26.0 | 8.5 |
| 4882.000000 | --- | 41.00 | 54.00 | 13.00 | 100.0 | H | 113.0 | 13.4 |
| 4887.500000 | 51.86 | --- | 74.00 | 22.14 | 100.0 | H | 212.0 | 13.3 |
| 7321.983333 | --- | 37.90 | 54.00 | 16.10 | 100.0 | H | 48.0 | 8.2 |
| 7322.475000 | 43.67 | --- | 74.00 | 30.33 | 100.0 | H | 121.0 | 8.2 |

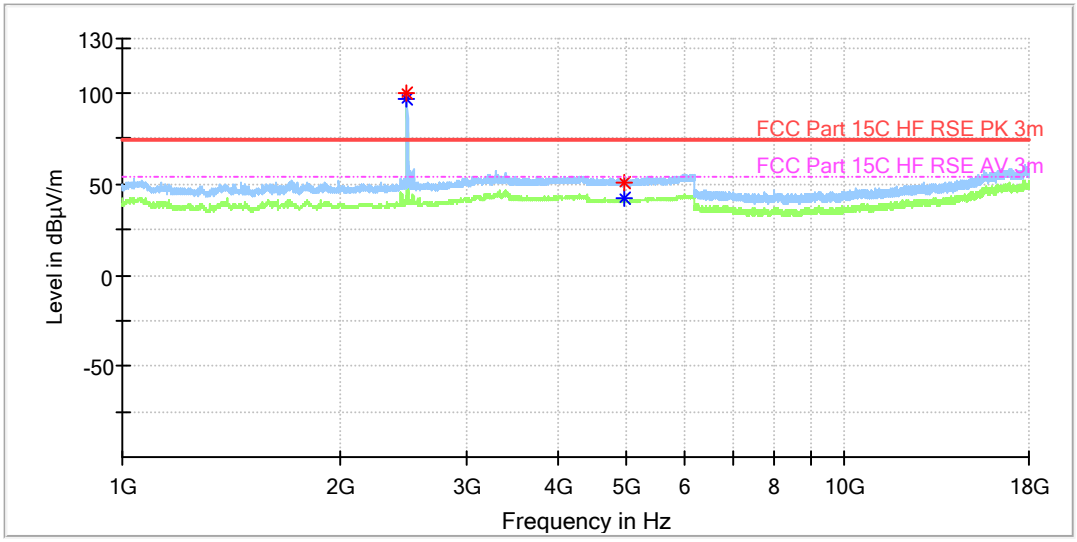
EUT Name: Powered Bookshelf Speakers
Model: S2000MKIII
Test Mode: TX BT_8DPSK_CH39




## Critical_Freqs

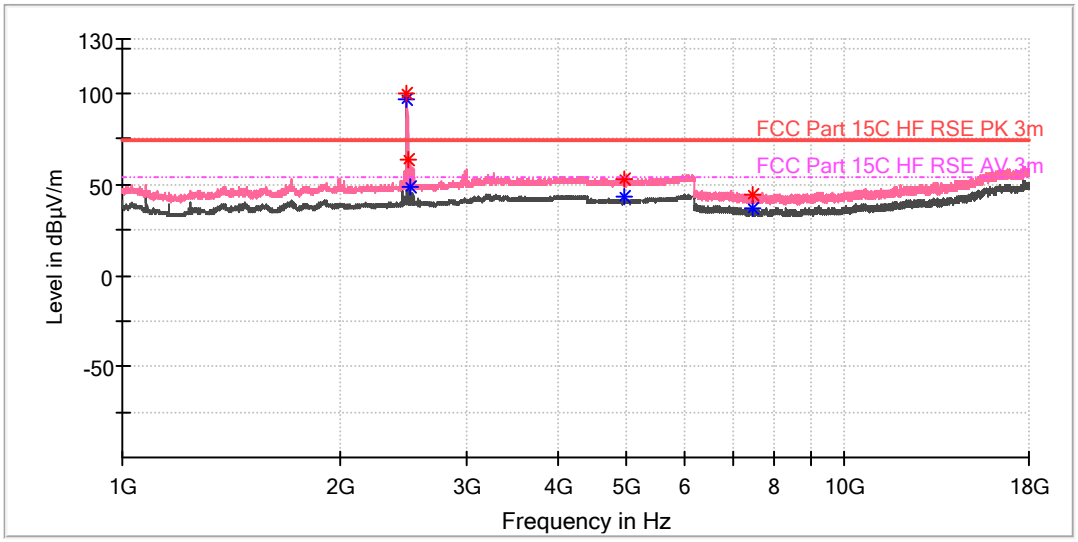
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 1079.500000 | --- | 44.03 | 54.00 | 9.97 | 100.0 | V | 127.0 | -0.2 |
| 1079.500000 | 48.66 | --- | 74.00 | 25.34 | 100.0 | V | 127.0 | -0.2 |
| 1159.500000 | 44.45 | --- | 74.00 | 29.55 | 100.0 | V | 246.0 | 0.8 |
| 1159.500000 | --- | 39.00 | 54.00 | 15.00 | 100.0 | V | 246.0 | 0.8 |
| 1240.000000 | --- | 40.23 | 54.00 | 13.77 | 100.0 | V | 274.0 | 1.7 |
| 1240.000000 | 47.28 | --- | 74.00 | 26.72 | 100.0 | V | 274.0 | 1.7 |
| 1713.000000 | --- | 40.91 | 54.00 | 13.09 | 100.0 | V | 296.0 | 3.4 |
| 1713.000000 | 52.95 | --- | 74.00 | 21.05 | 100.0 | V | 296.0 | 3.4 |
| 2401.000000 | --- | 45.06 | 54.00 | 8.94 | 100.0 | V | 281.0 | 7.0 |
| 2401.000000 | 50.68 | --- | 74.00 | 23.32 | 100.0 | V | 281.0 | 7.0 |
| 2441.000000 | 100.22 | --- | 74.00 | -26.22 | 100.0 | V | 246.0 | 7.4 |
| 2441.000000 | --- | 96.99 | 54.00 | -42.99 | 100.0 | V | 246.0 | 7.4 |
| 2495.000000 | 63.95 | --- | 74.00 | 10.05 | 100.0 | V | 15.0 | 7.4 |
| 2495.000000 | --- | 48.10 | 54.00 | 5.90 | 100.0 | V | 15.0 | 7.4 |
| 2519.500000 | --- | 43.72 | 54.00 | 10.28 | 100.0 | V | 274.0 | 7.5 |
| 2520.000000 | 57.55 | --- | 74.00 | 16.45 | 100.0 | V | 274.0 | 7.5 |
| 4881.500000 | 52.91 | --- | 74.00 | 21.09 | 100.0 | V | 93.0 | 13.4 |
| 4882.000000 | --- | 44.07 | 54.00 | 9.93 | 100.0 | V | 93.0 | 13.4 |
| 7322.475000 | --- | 39.47 | 54.00 | 14.53 | 100.0 | V | 88.0 | 8.2 |
| 7322.966667 | 43.86 | --- | 74.00 | 30.14 | 100.0 | V | 74.0 | 8.2 |

EUT Name: Powered Bookshelf Speakers
Model: S2000MKIII
Test Mode: TX BT_8DPSK_CH78




## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2479.500000 | 99.91 | --- | 74.00 | -25.91 | 100.0 | H | 117.0 | 7.4 |
| 2480.000000 | --- | 96.82 | 54.00 | -42.82 | 100.0 | H | 117.0 | 7.4 |
| 4959.500000 | 50.93 | --- | 74.00 | 23.07 | 100.0 | H | 121.0 | 13.2 |
| 4959.500000 | --- | 42.70 | 54.00 | 11.30 | 100.0 | H | 121.0 | 13.2 |



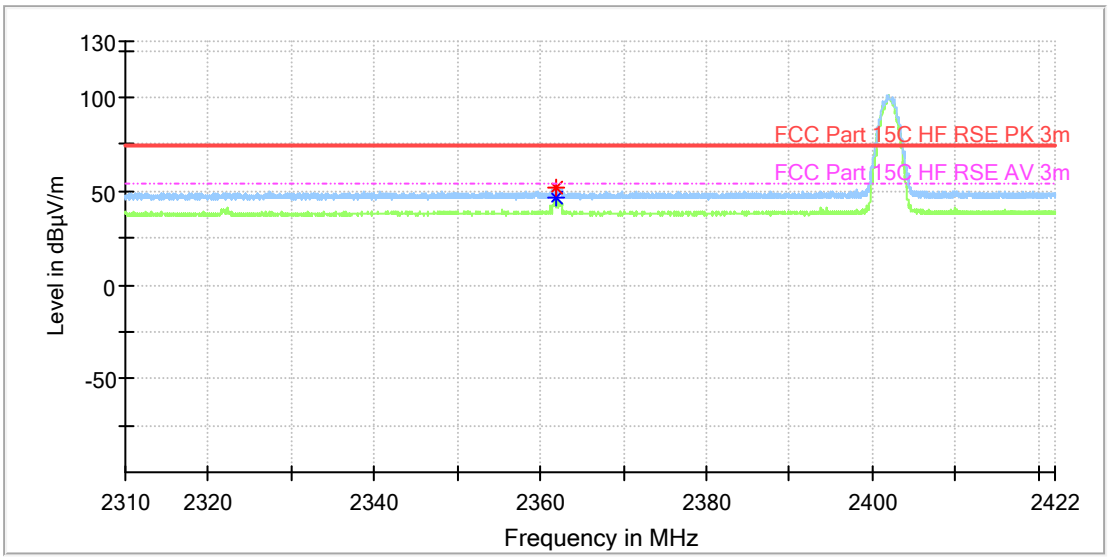

## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2479.500000 | 100.52 | --- | 74.00 | -26.52 | 100.0 | V | 241.0 | 7.4 |
| 2480.000000 | --- | 96.85 | 54.00 | -42.85 | 100.0 | V | 241.0 | 7.4 |
| 2496.000000 | 63.86 | --- | 74.00 | 10.14 | 100.0 | V | 16.0 | 7.4 |
| 2496.500000 | --- | 48.60 | 54.00 | 5.40 | 100.0 | V | 16.0 | 7.4 |
| 4959.500000 | 53.07 | --- | 74.00 | 20.93 | 100.0 | V | 100.0 | 13.2 |
| 4960.000000 | --- | 43.84 | 54.00 | 10.16 | 100.0 | V | 100.0 | 13.2 |
| 7439.983333 | 44.10 | --- | 74.00 | 29.90 | 100.0 | V | 81.0 | 8.4 |
| 7440.475000 | --- | 37.20 | 54.00 | 16.80 | 100.0 | V | 81.0 | 8.4 |

## Appendix C.2: Test Plots of Band Edge (Radiated)

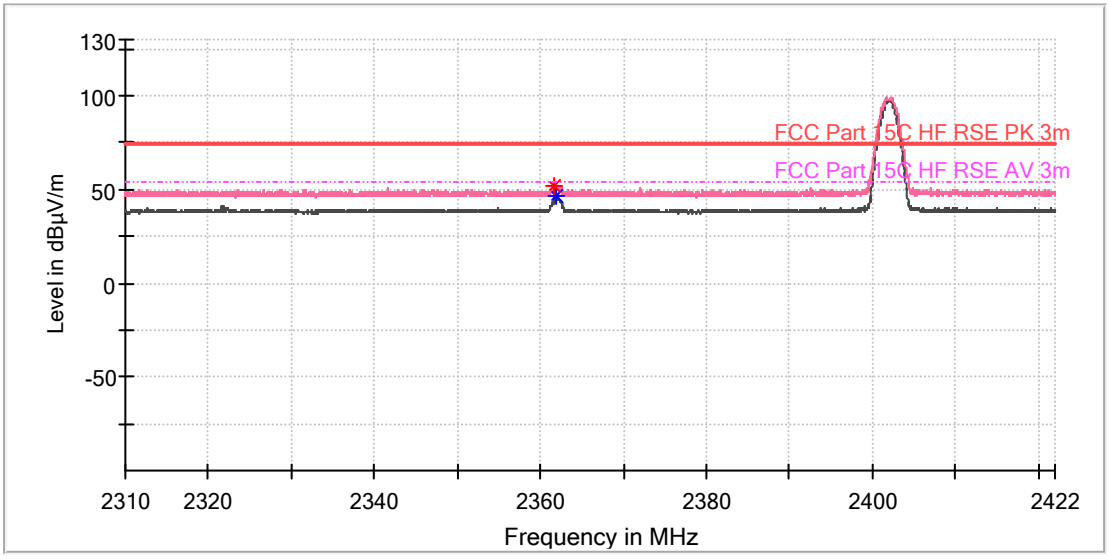
### BDR mode, Low Channel

EUT Name: Powered Bookshelf Speakers
Model: S2000MKIII
Test Mode: TX BT_GFSK_CH0




## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2361.882353 | --- | 46.28 | 54.00 | 7.72 | 100.0 | H | 316.0 | 6.9 |
| 2361.882353 | 52.11 | --- | 74.00 | 21.89 | 100.0 | H | 316.0 | 6.9 |

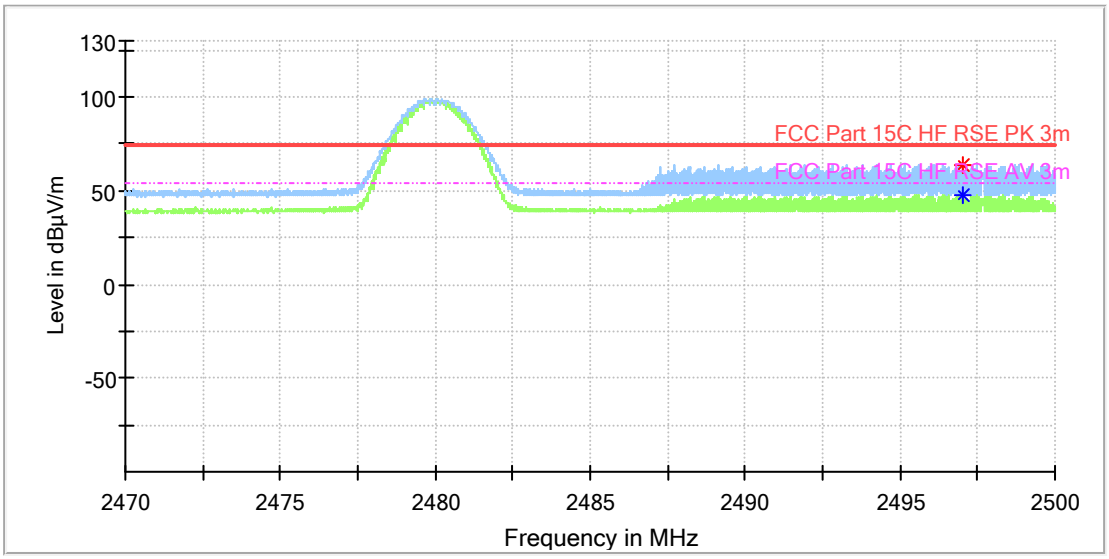



## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2361.767059 | 51.45 | --- | 74.00 | 22.55 | 100.0 | V | 312.0 | 6.9 |
| 2361.783530 | --- | 46.64 | 54.00 | 7.36 | 100.0 | V | 312.0 | 6.9 |

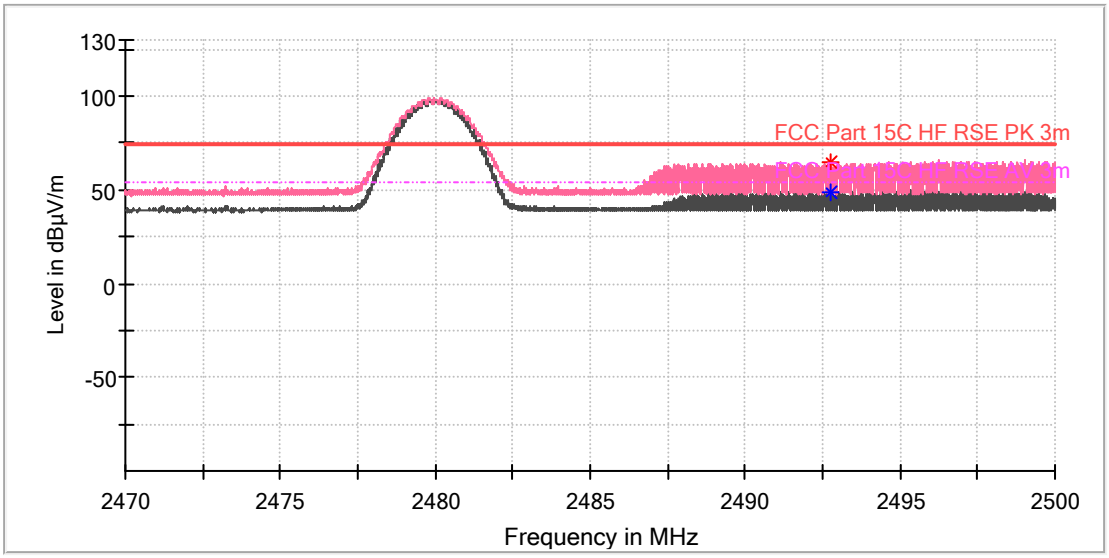
**BDR mode, High Channel**

EUT Name: Powered Bookshelf Speakers
Model: S2000MKIII
Test Mode: TX BT_GFSK_CH78




## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2497.000000 | 63.91 | --- | 74.00 | 10.09 | 100.0 | H | 284.0 | 7.4 |
| 2497.004412 | --- | 48.09 | 54.00 | 5.91 | 100.0 | H | 284.0 | 7.4 |

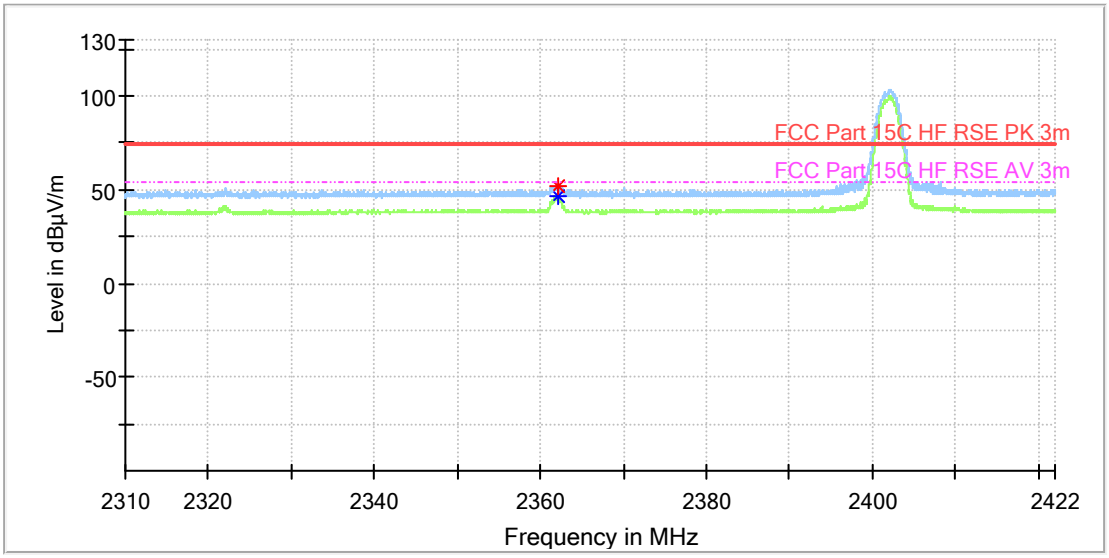



## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2492.782353 | --- | 48.49 | 54.00 | 5.51 | 100.0 | V | 204.0 | 7.4 |
| 2492.782353 | 64.24 | --- | 74.00 | 9.76 | 100.0 | V | 204.0 | 7.4 |

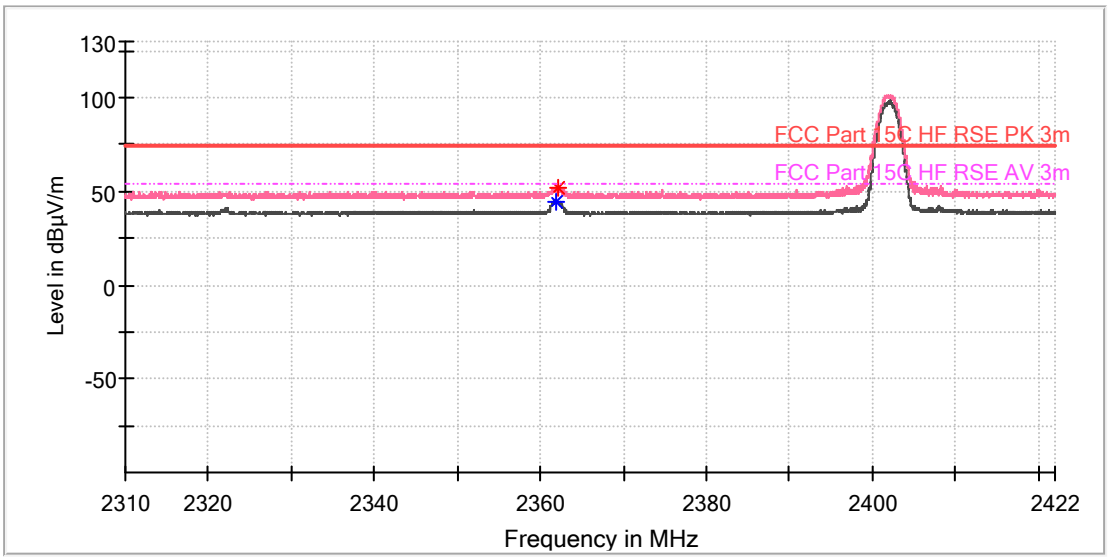
**EDR mode, Low Channel**

EUT Name: Powered Bookshelf Speakers
Model: S2000MKIII




## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2362.030588 | --- | 46.05 | 54.00 | 7.95 | 100.0 | H | 313.0 | 6.9 |
| 2362.063530 | 51.96 | --- | 74.00 | 22.04 | 100.0 | H | 124.0 | 6.9 |

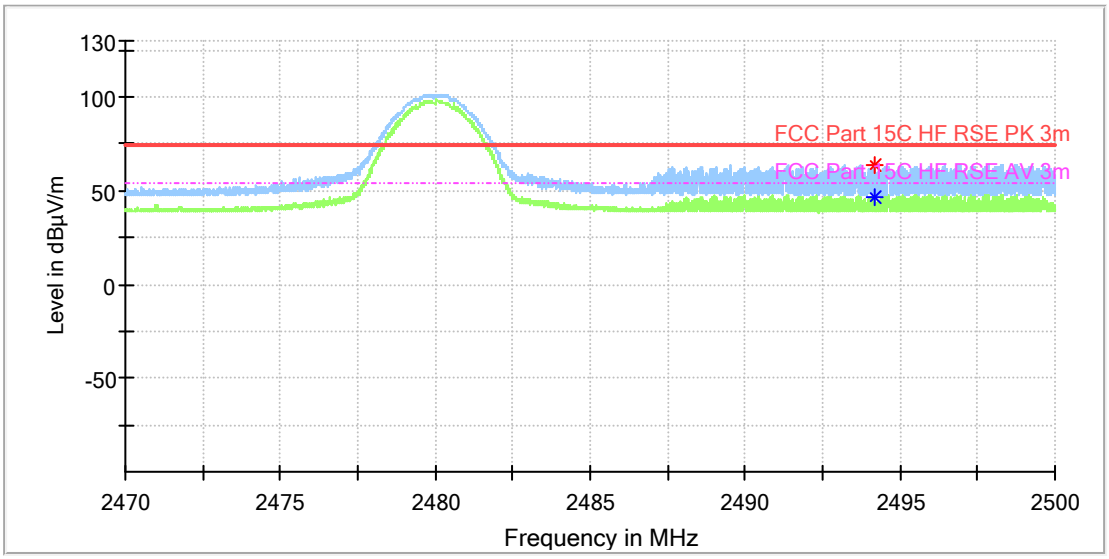



## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2361.898824 | --- | 44.91 | 54.00 | 9.09 | 100.0 | V | 311.0 | 6.9 |
| 2362.047059 | 51.98 | --- | 74.00 | 22.02 | 100.0 | V | 304.0 | 6.9 |

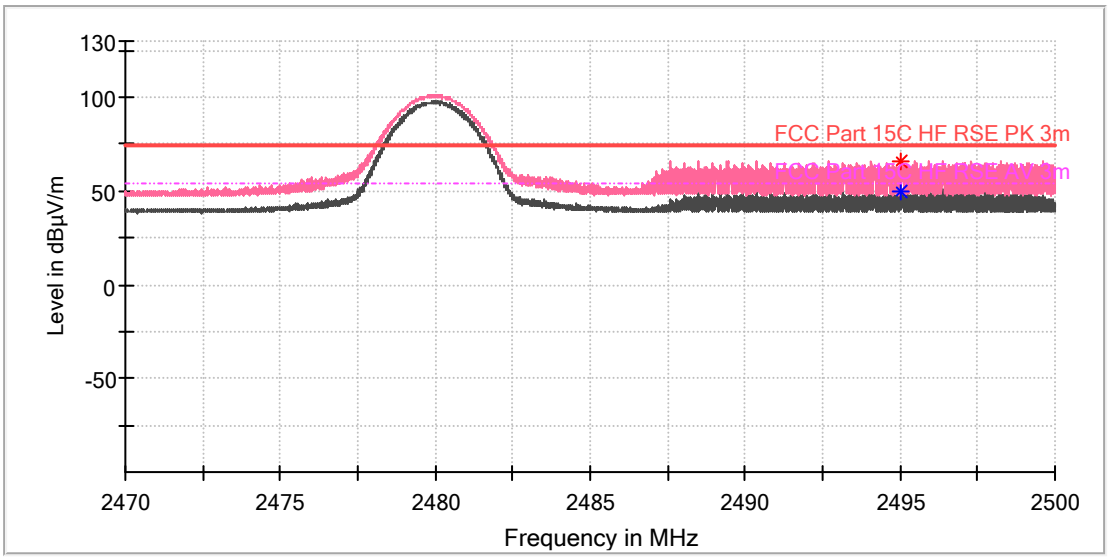
**EDR mode, High Channel**

EUT Name: Powered Bookshelf Speakers
Model: S2000MKIII
Test Mode: TX BT_8DPSK_CH78




## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2494.194118 | --- | 46.69 | 54.00 | 7.31 | 100.0 | H | 47.0 | 7.4 |
| 2494.194118 | 63.57 | --- | 74.00 | 10.43 | 100.0 | H | 47.0 | 7.4 |

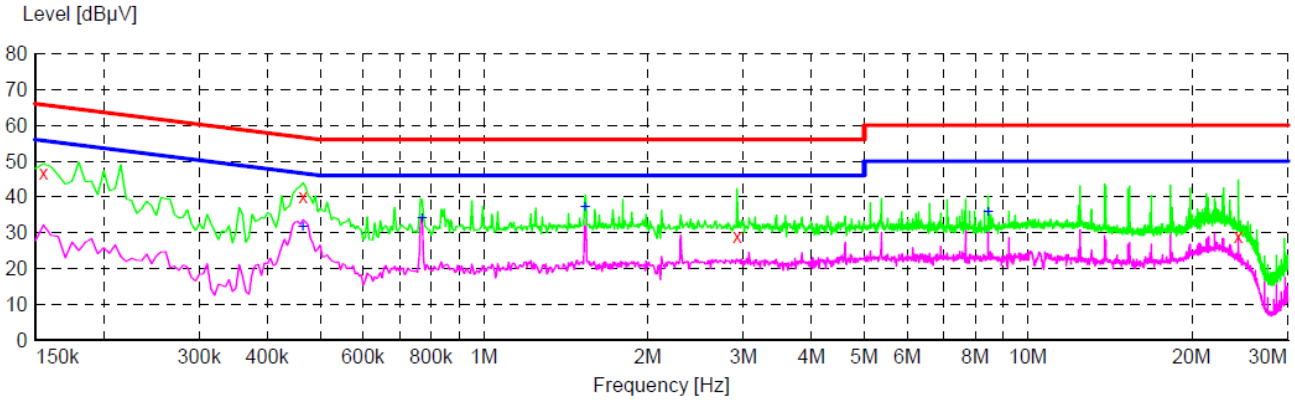



## Critical_Freqs

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|---|---|---|---|---|---|---|---|---|
| 2495.005882 | 65.93 | --- | 74.00 | 8.07 | 100.0 | V | 202.0 | 7.4 |
| 2495.010294 | --- | 50.24 | 54.00 | 3.76 | 100.0 | V | 202.0 | 7.4 |

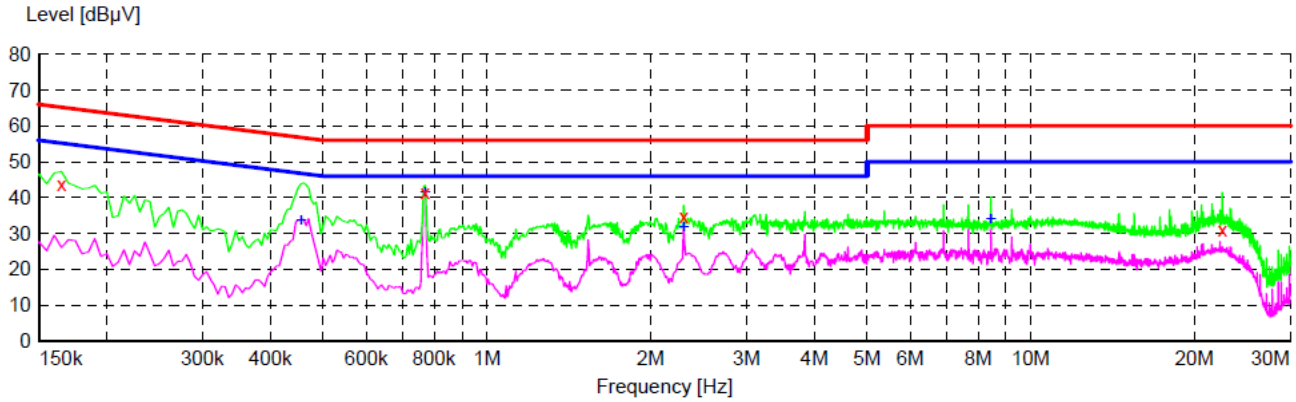
## Appendix C.3: Test Plots of AC Mains Conducted Emission

| | |
|---|---|
| EUT Name: | Powered Bookshelf Speakers |
| Model: | S2000MKIII |
| Test Mode: | BT |
| Comment: | Line |




| Frequency MHz | Level dBµV | Transd dB | Limit | Margin | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.155000 | 46.60 | 10.5 | 66 | 19.1 | QP | L1 | GND |
| 0.465000 | 40.10 | 10.6 | 57 | 16.5 | QP | L1 | GND |
| 2.920000 | 28.90 | 10.8 | 56 | 27.1 | QP | L1 | GND |
| 24.355000 | 29.00 | 11.0 | 60 | 31.0 | QP | L1 | GND |
| 0.465000 | 31.90 | 10.6 | 47 | 14.7 | AV | L1 | GND |
| 0.770000 | 34.10 | 10.6 | 46 | 11.9 | AV | L1 | GND |
| 1.535000 | 37.30 | 10.7 | 46 | 8.7 | AV | L1 | GND |
| 8.450000 | 35.90 | 10.9 | 50 | 14.1 | AV | L1 | GND |

EUT Name: Powered Bookshelf Speakers
Model: S2000MKIII
Test Mode: BT
Comment: Nature




| Frequency MHz | Level dBµV | Transd dB | Limit | Margin | Detector | Line | PE |
|---|---|---|---|---|---|---|---|
| 0.165000 | 43.60 | 10.5 | 65 | 21.6 | QP | N | GND |
| 0.770000 | 41.50 | 10.6 | 56 | 14.5 | QP | N | GND |
| 2.300000 | 34.80 | 10.7 | 56 | 21.2 | QP | N | GND |
| 22.495000 | 31.00 | 11.0 | 60 | 29.0 | QP | N | GND |
| 0.455000 | 33.50 | 10.6 | 47 | 13.3 | AV | N | GND |
| 0.770000 | 41.30 | 10.6 | 46 | 4.7 | AV | N | GND |
| 2.300000 | 31.80 | 10.7 | 46 | 14.2 | AV | N | GND |
| 8.450000 | 34.00 | 10.9 | 50 | 16.0 | AV | N | GND |