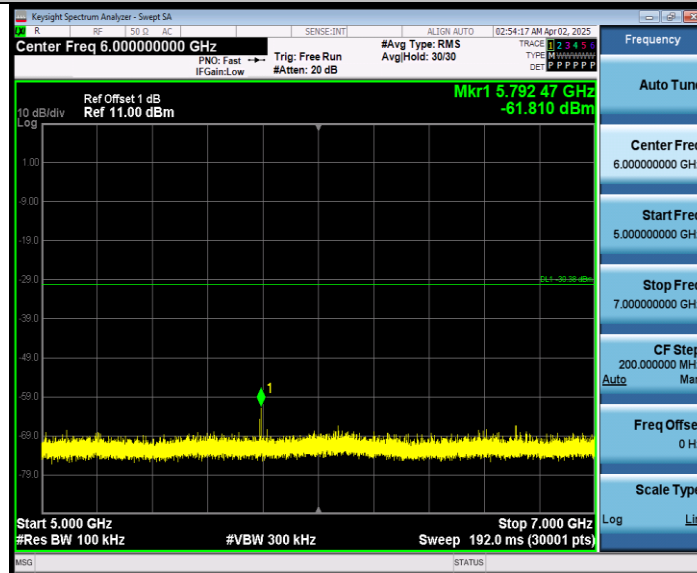
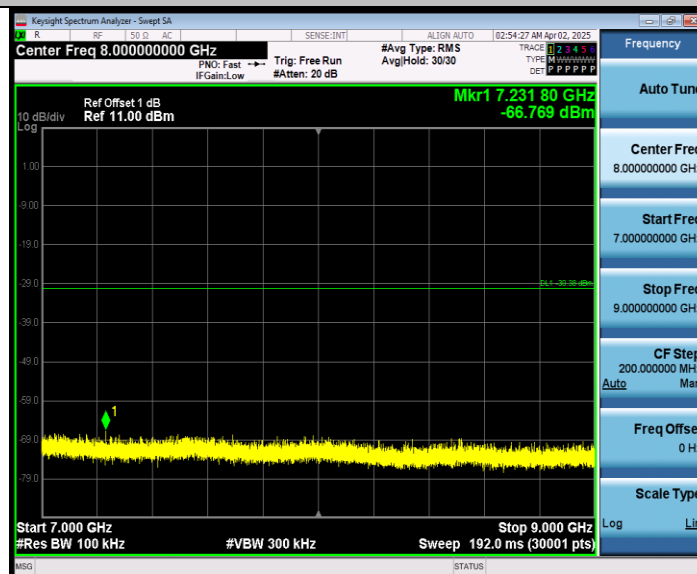




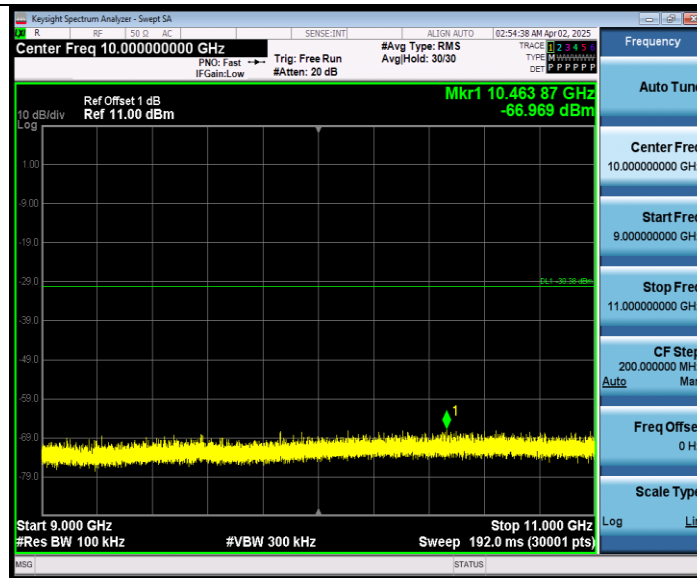
11N40SISO\_Ant1\_2422\_5000~7000



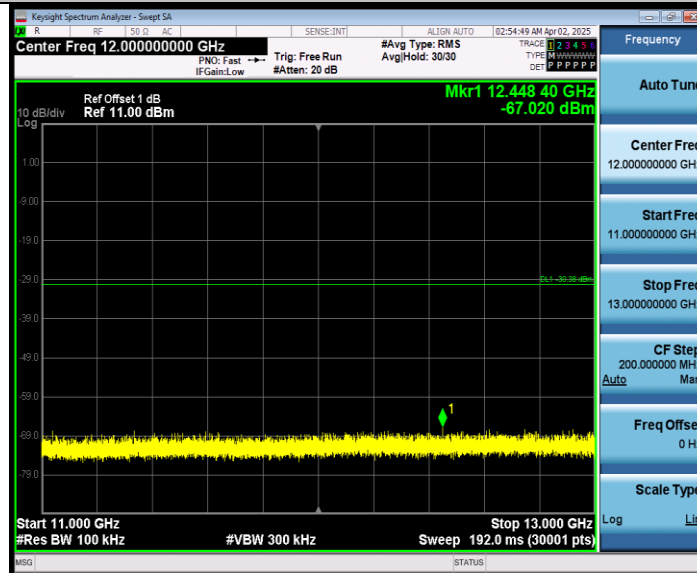
11N40SISO\_Ant1\_2422\_7000~9000



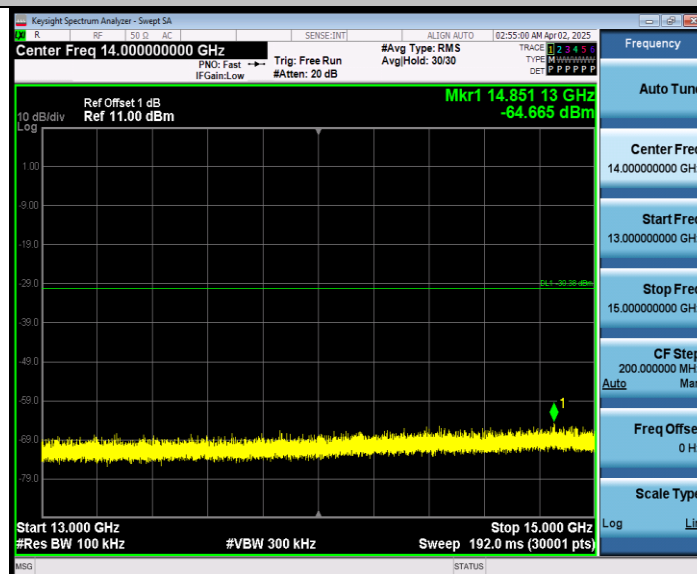
11N40SISO\_Ant1\_2422\_9000~11000



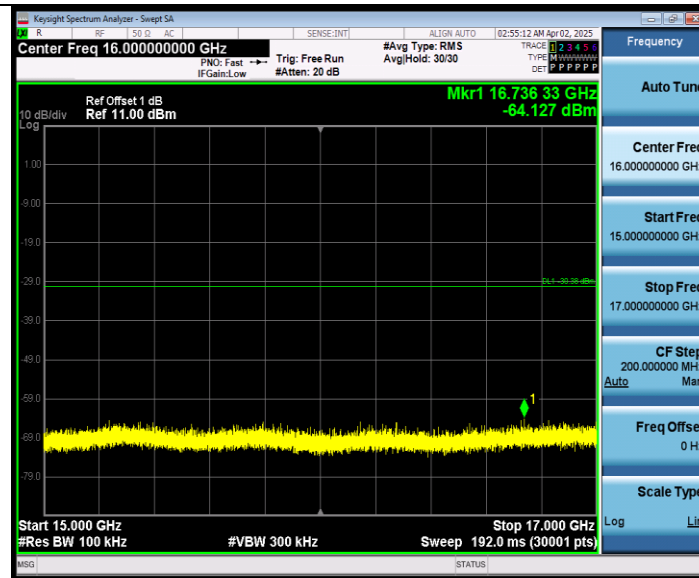
11N40SISO\_Ant1\_2422\_11000~13000



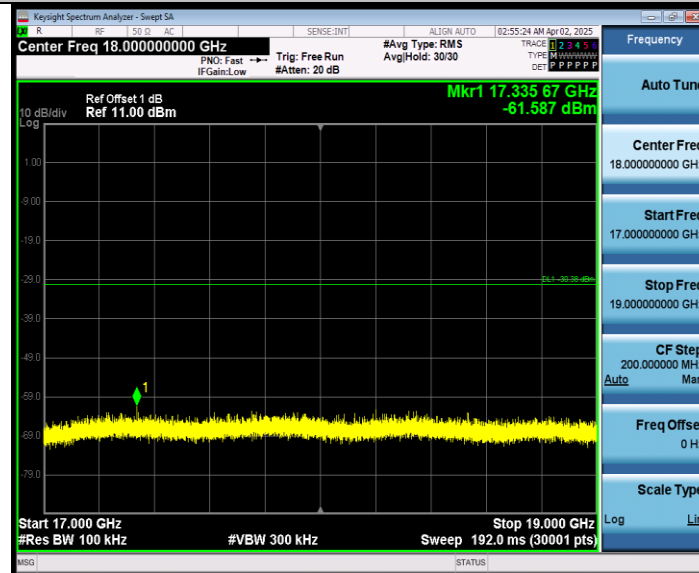
11N40SISO\_Ant1\_2422\_13000~15000



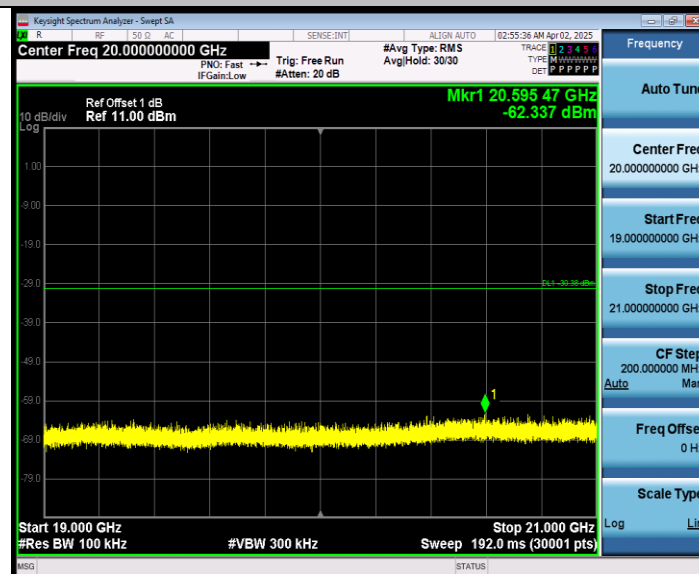
11N40SISO\_Ant1\_2422\_15000~17000



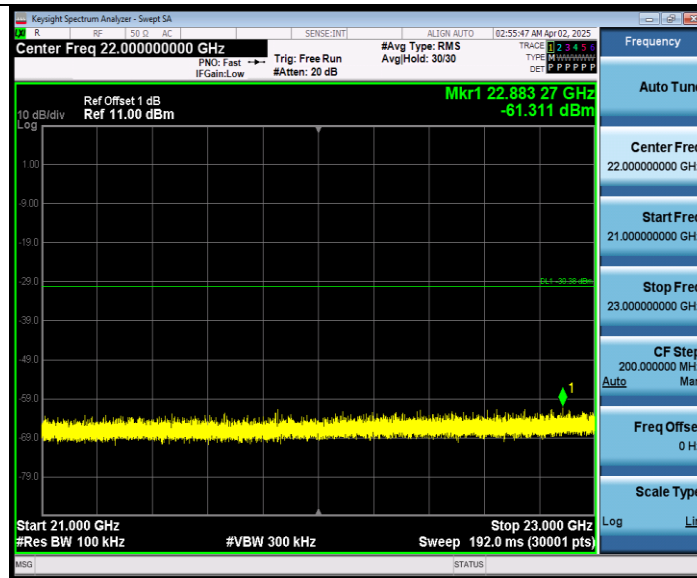
11N40SISO\_Ant1\_2422\_17000~19000



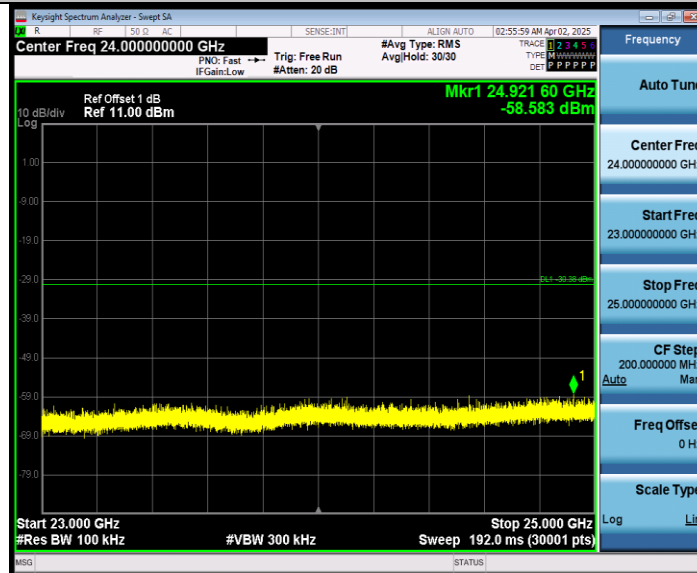
11N40SISO\_Ant1\_2422\_19000~21000



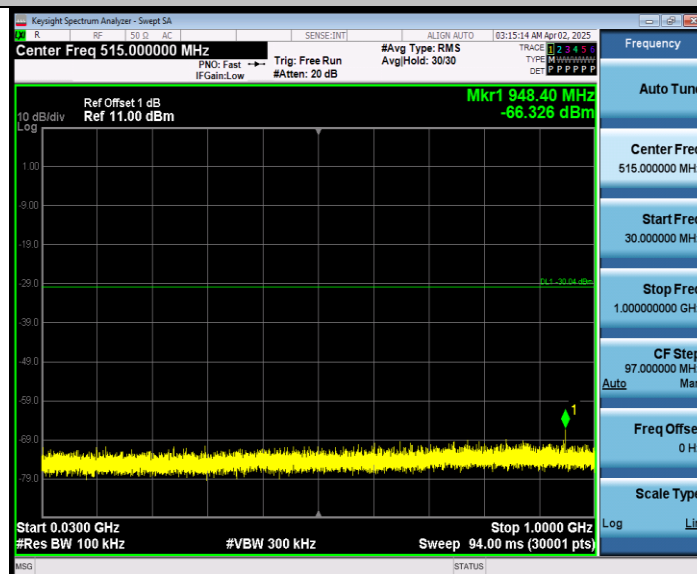
11N40SISO\_Ant1\_2422\_21000~23000



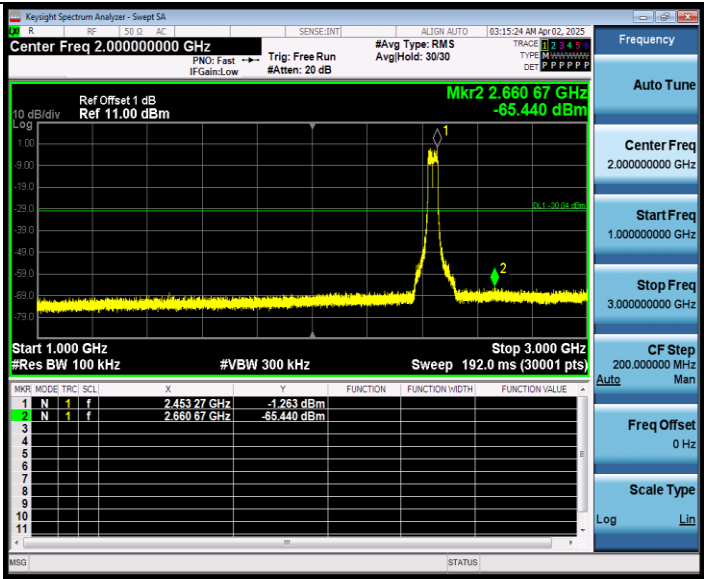
11N40SISO\_Ant1\_2422\_23000~25000



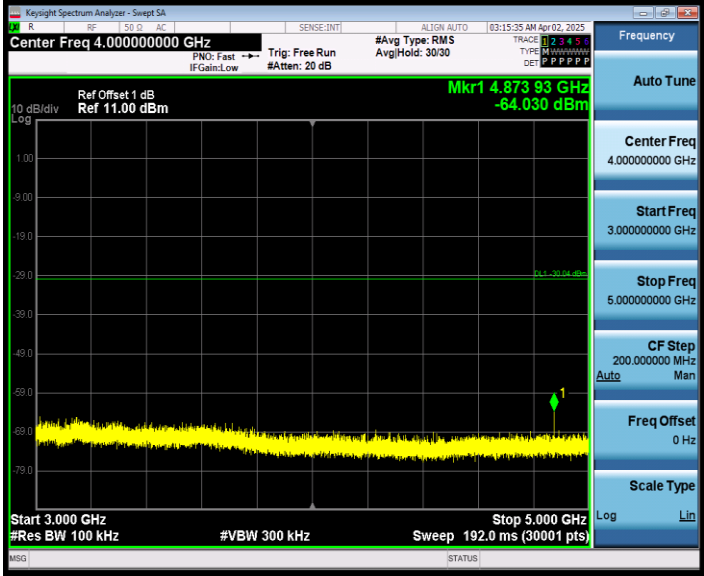
11N40SISO\_Ant1\_2437\_30~1000



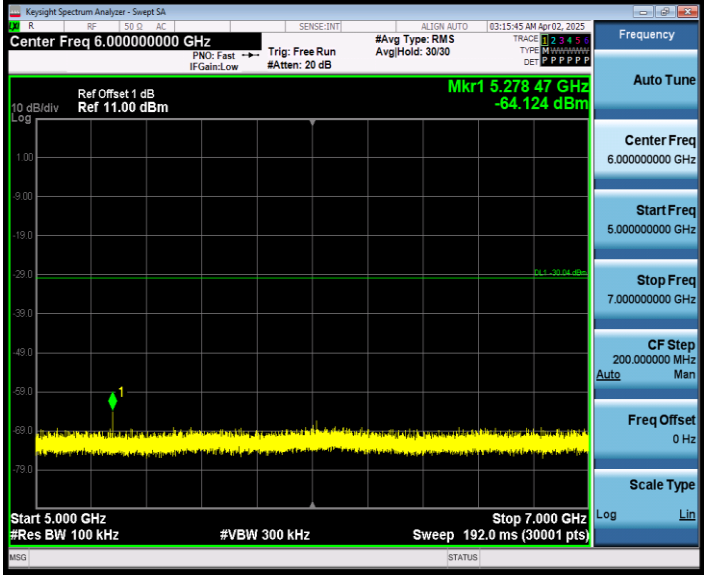
11N40SISO\_Ant1\_2437\_1000~3000



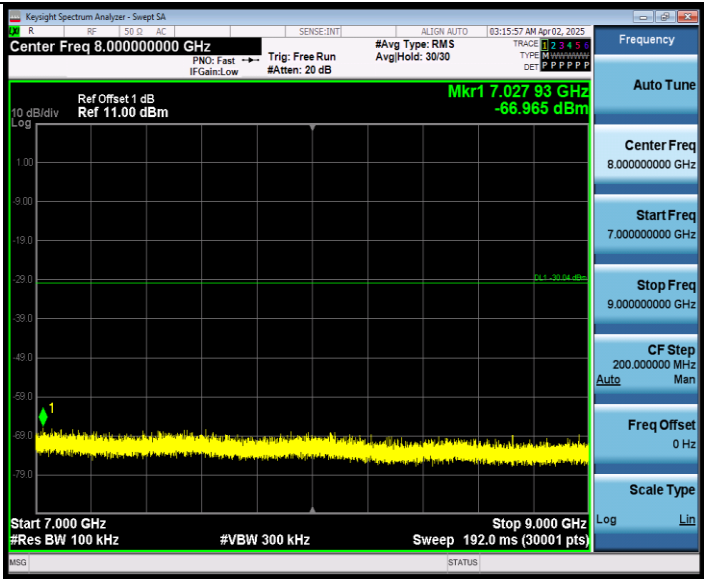
11N40SISO\_Ant1\_2437\_3000~5000



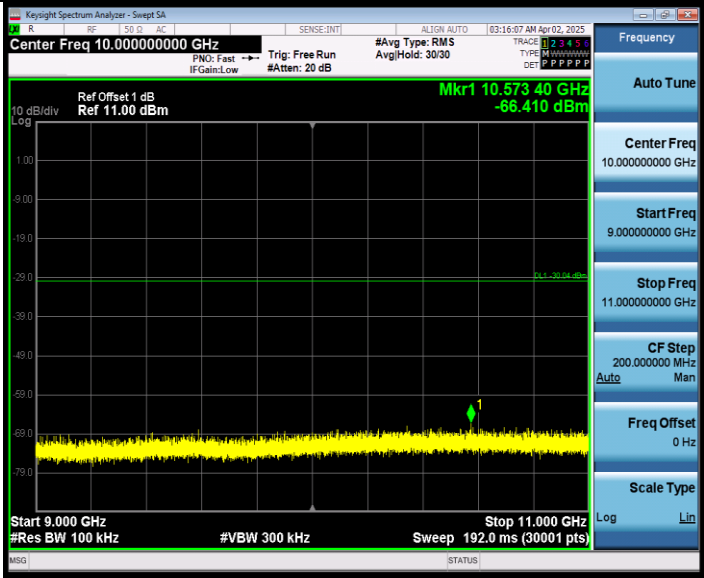
11N40SISO\_Ant1\_2437\_5000~7000



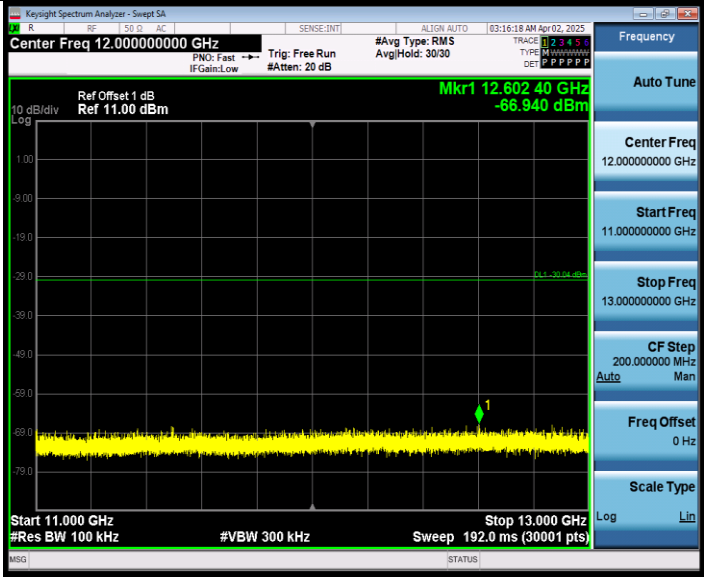
11N40SISO\_Ant1\_2437\_7000~9000



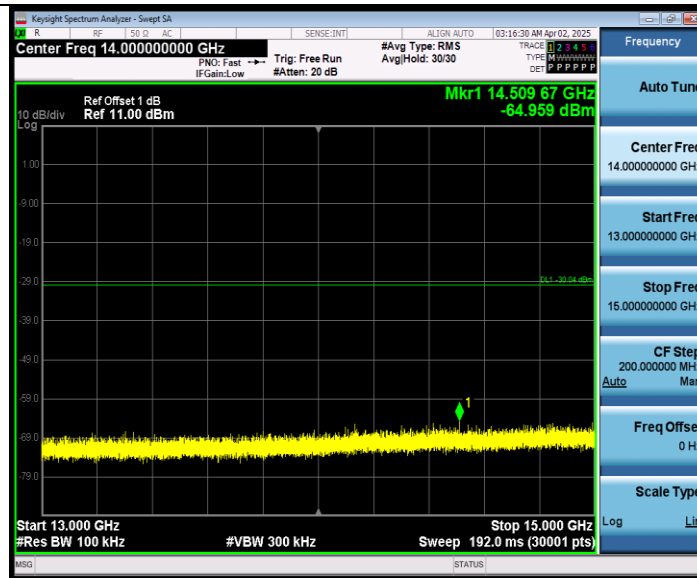
11N40SISO\_Ant1\_2437\_9000~11000



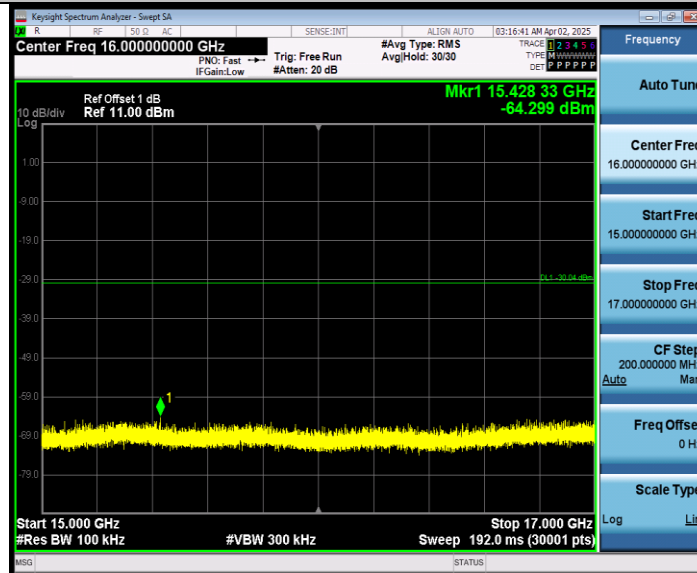
11N40SISO\_Ant1\_2437\_11000~13000



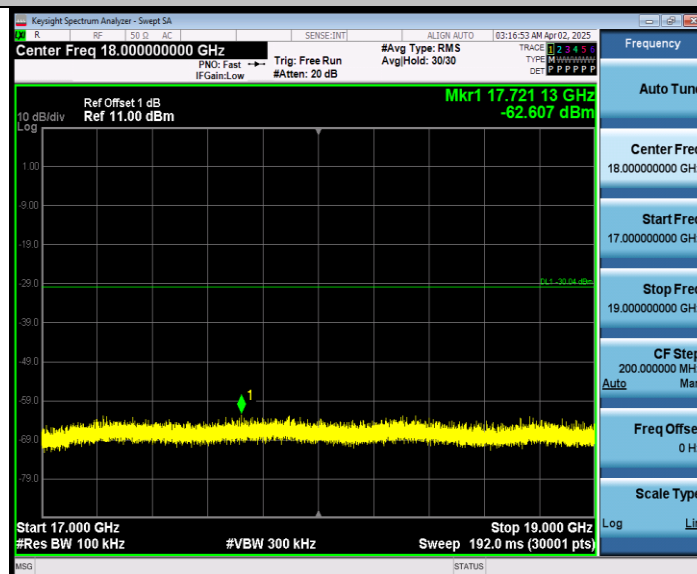
11N40SISO\_Ant1\_2437\_13000~15000



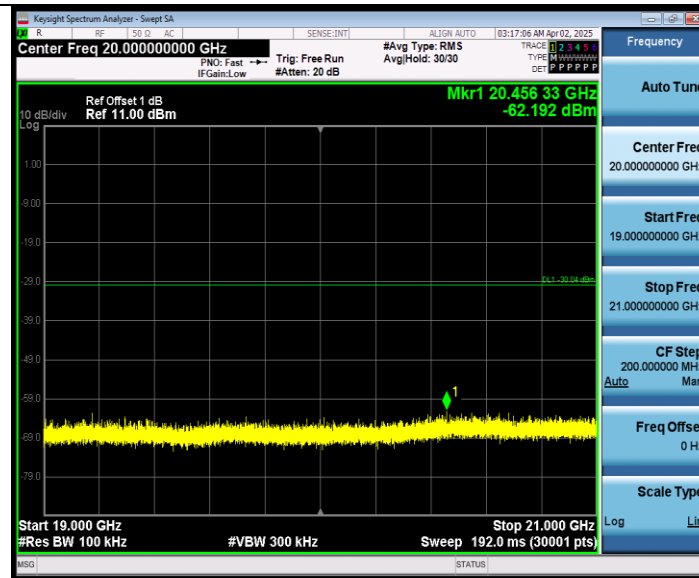
11N40SISO\_Ant1\_2437\_15000~17000



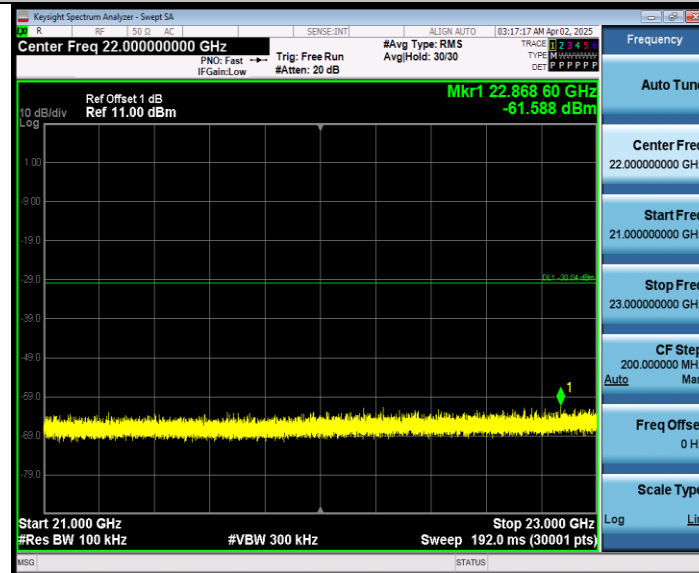
11N40SISO\_Ant1\_2437\_17000~19000



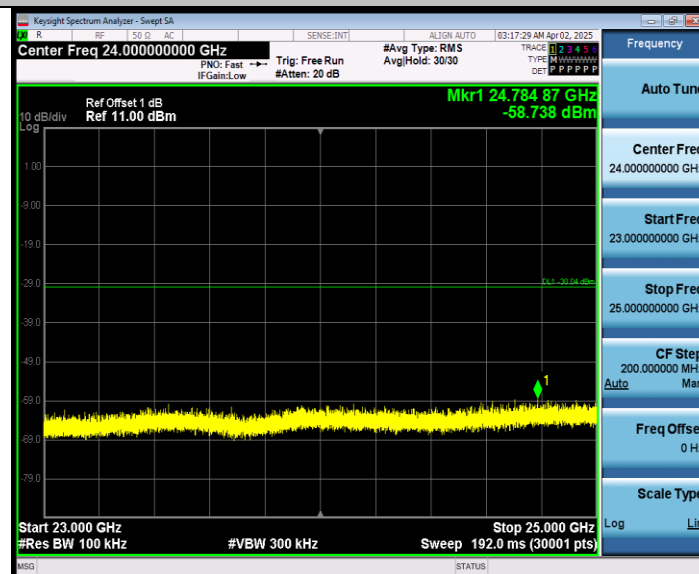
11N40SISO\_Ant1\_2437\_19000~21000



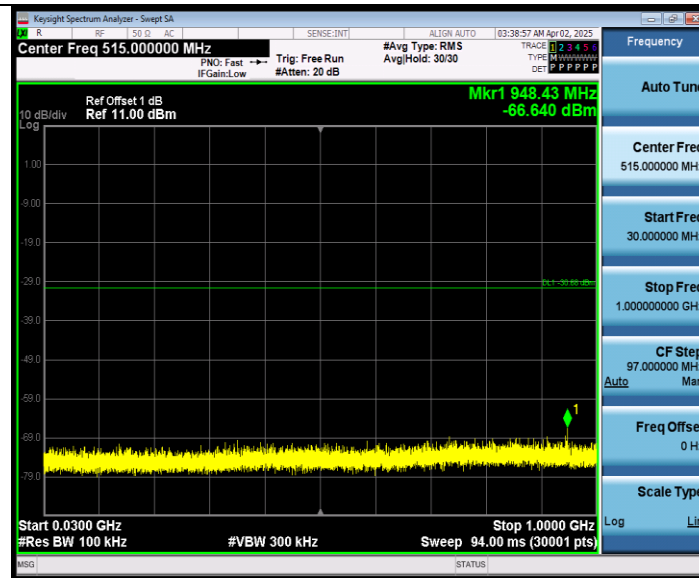
11N40SISO\_Ant1\_2437\_21000~23000



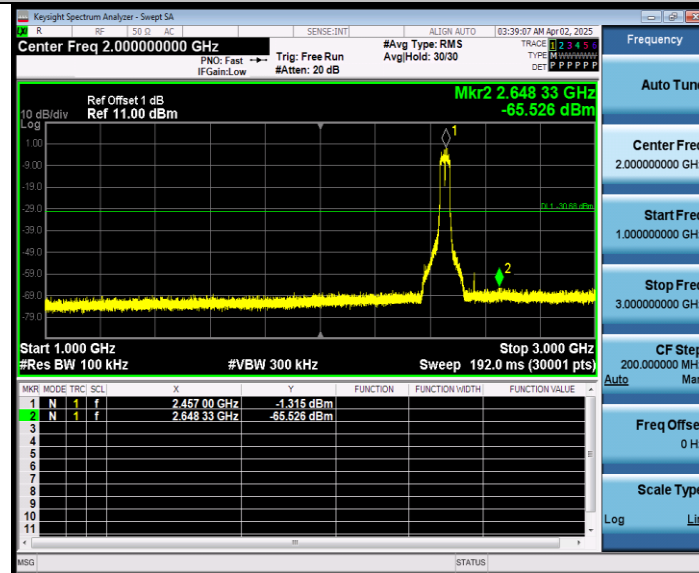
11N40SISO\_Ant1\_2437\_23000~25000



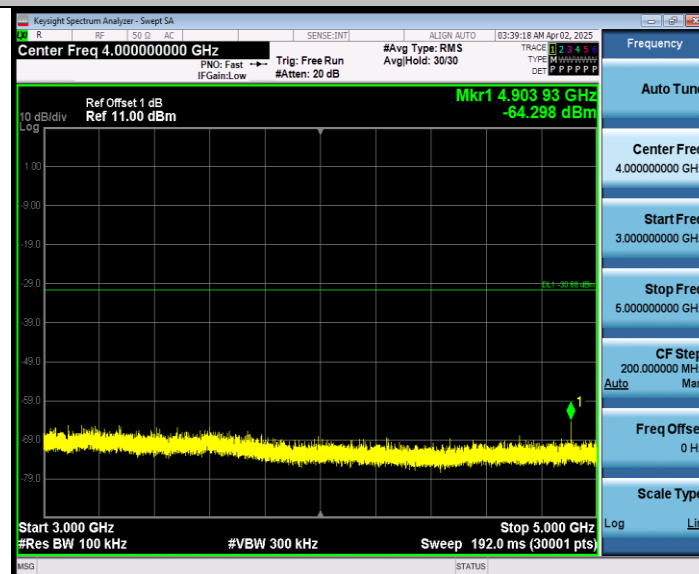
11N40SISO\_Ant1\_2452\_30~1000



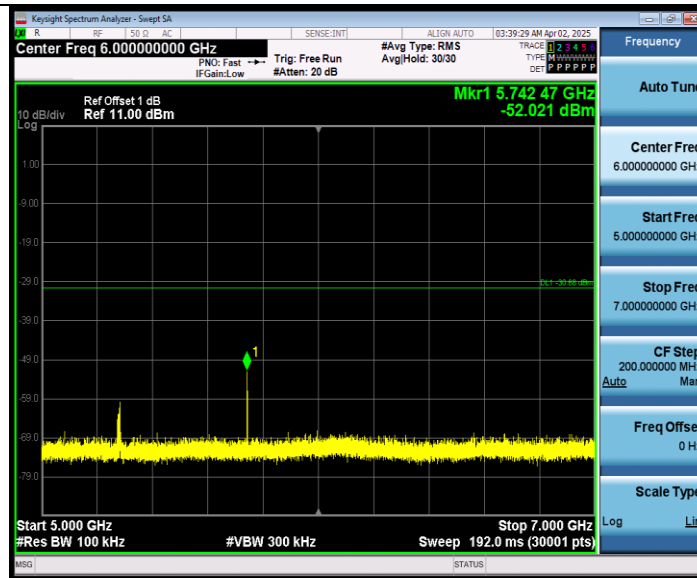
11N40SISO\_Ant1\_2452\_1000~3000



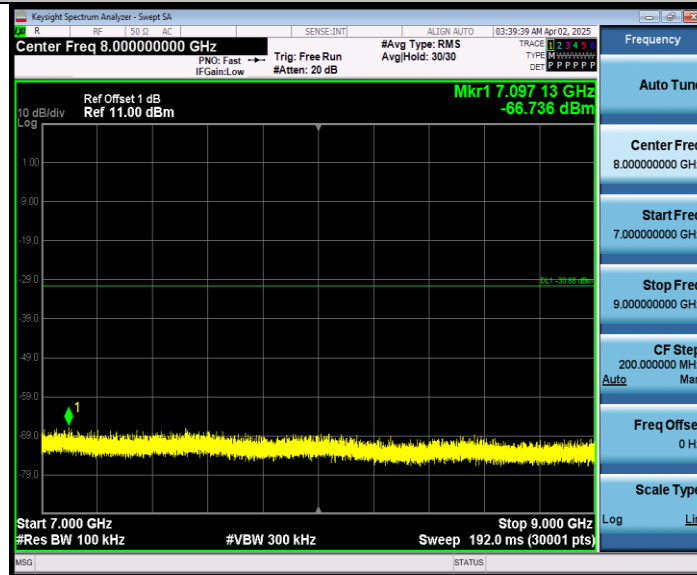
11N40SISO\_Ant1\_2452\_3000~5000



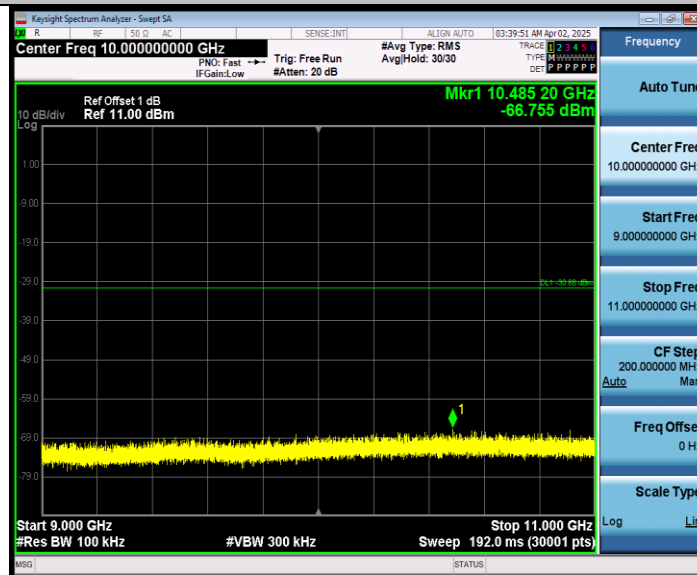
11N40SISO\_Ant1\_2452\_5000~7000



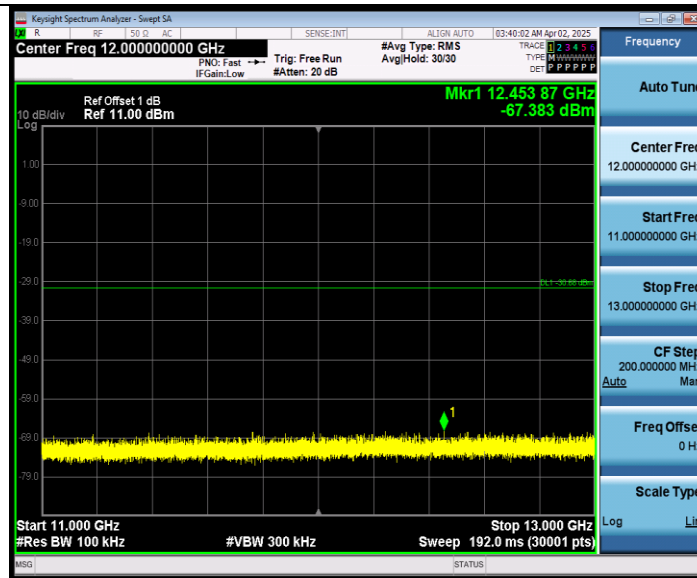
11N40SISO\_Ant1\_2452\_7000~9000



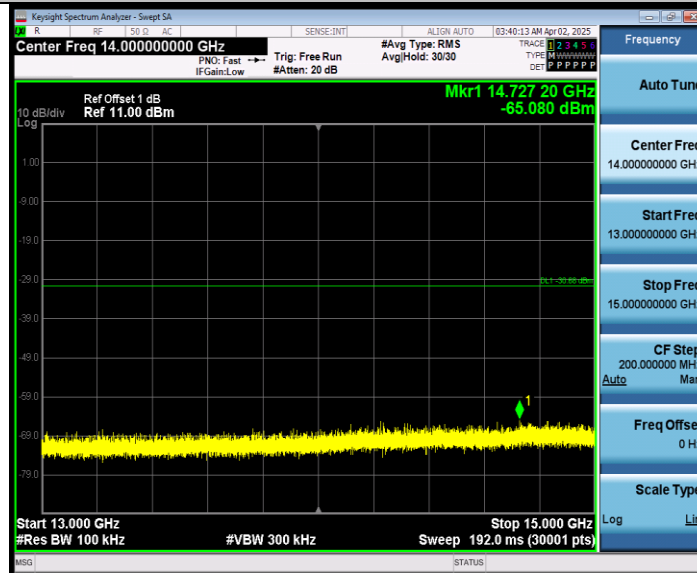
11N40SISO\_Ant1\_2452\_9000~11000



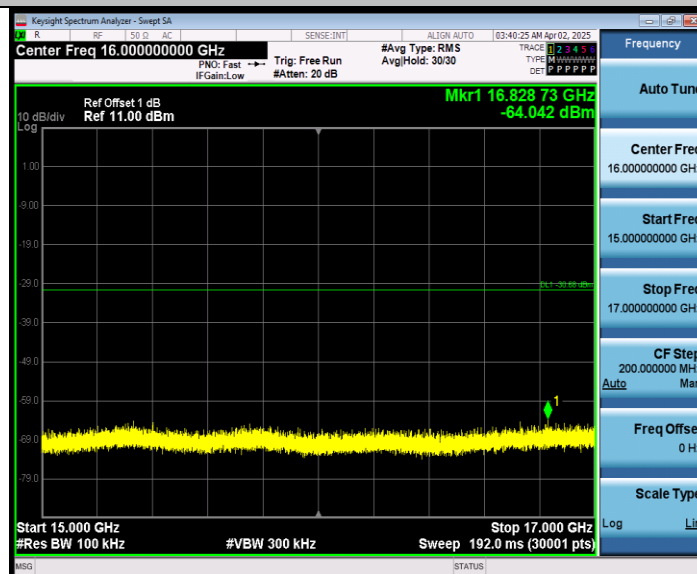
11N40SISO\_Ant1\_2452\_11000~13000



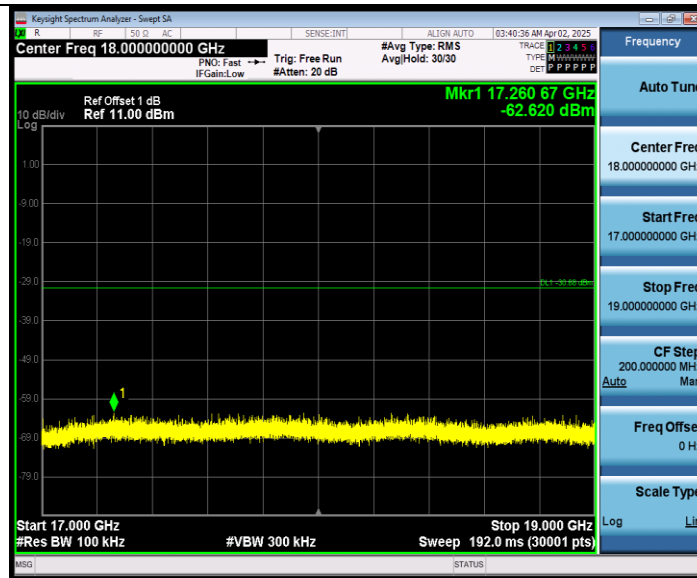
11N40SISO\_Ant1\_2452\_13000~15000



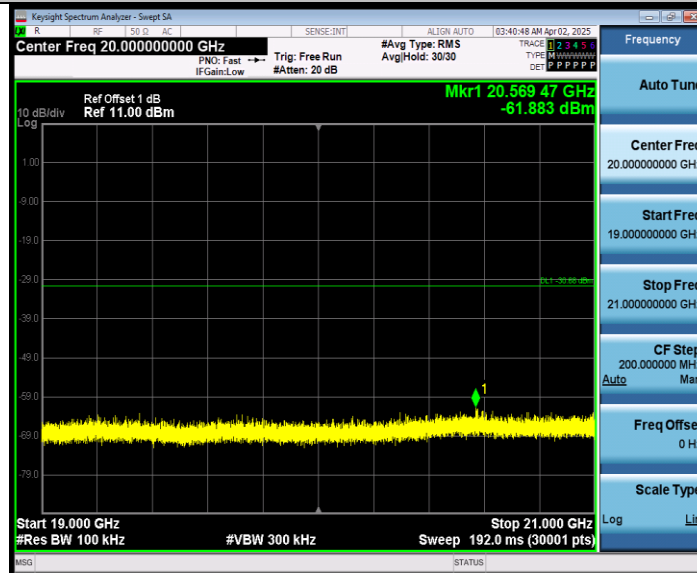
11N40SISO\_Ant1\_2452\_15000~17000



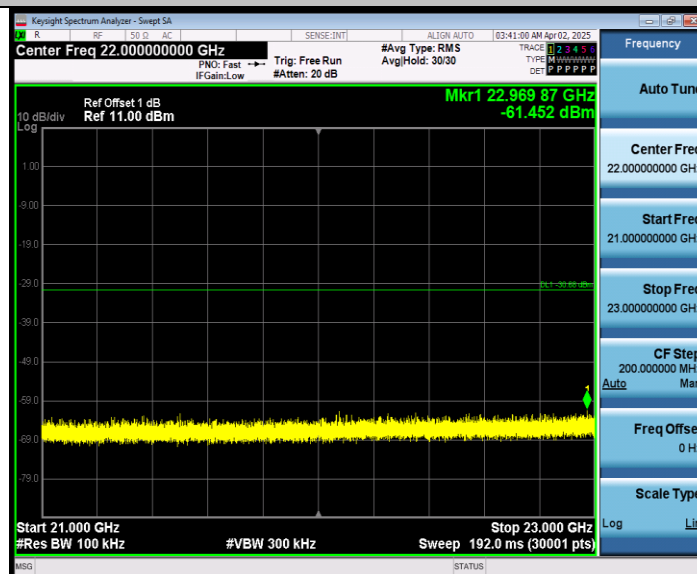
11N40SISO\_Ant1\_2452\_17000~19000



11N40SISO\_Ant1\_2452\_19000~21000



11N40SISO\_Ant1\_2452\_21000~23000



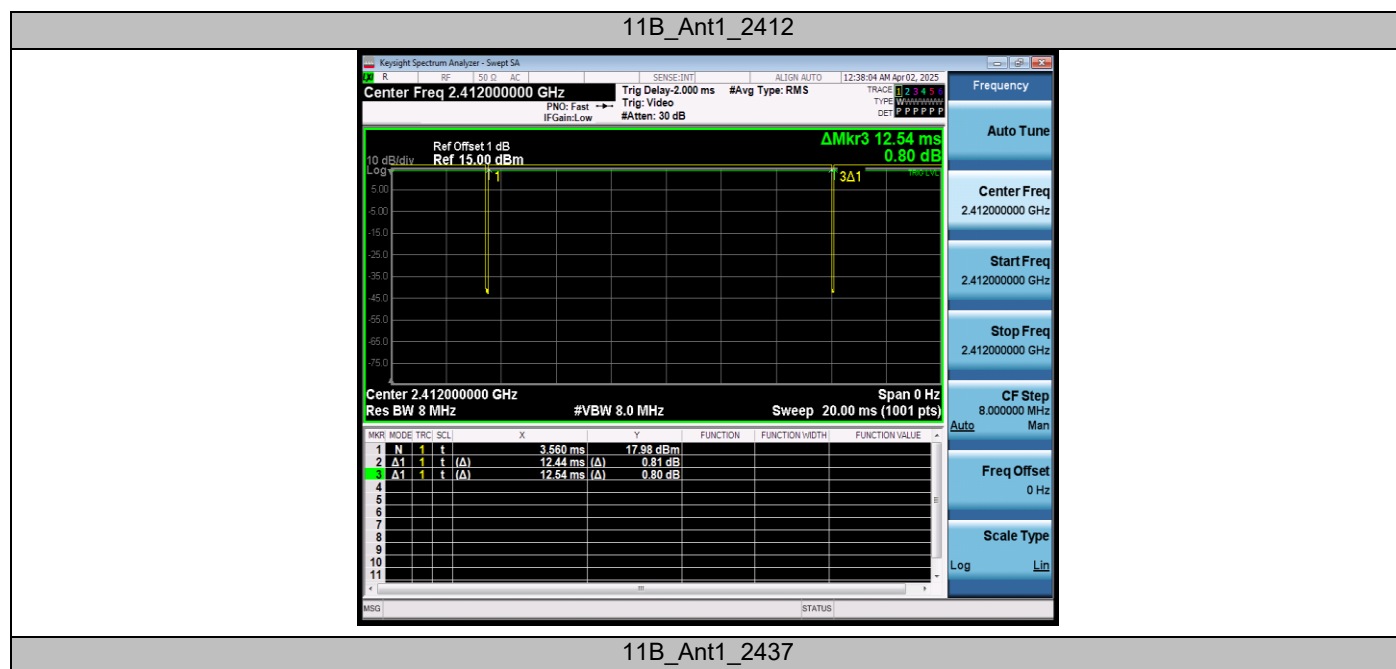
11N40SISO\_Ant1\_2452\_23000~25000

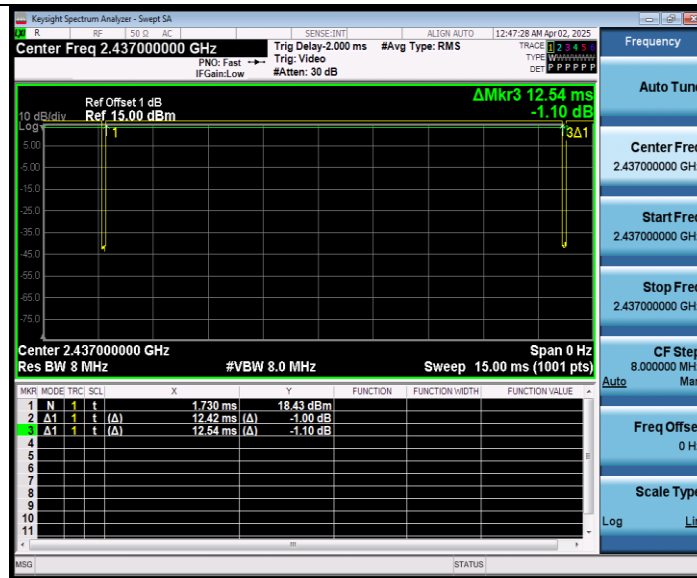


## Appendix F: Duty Cycle

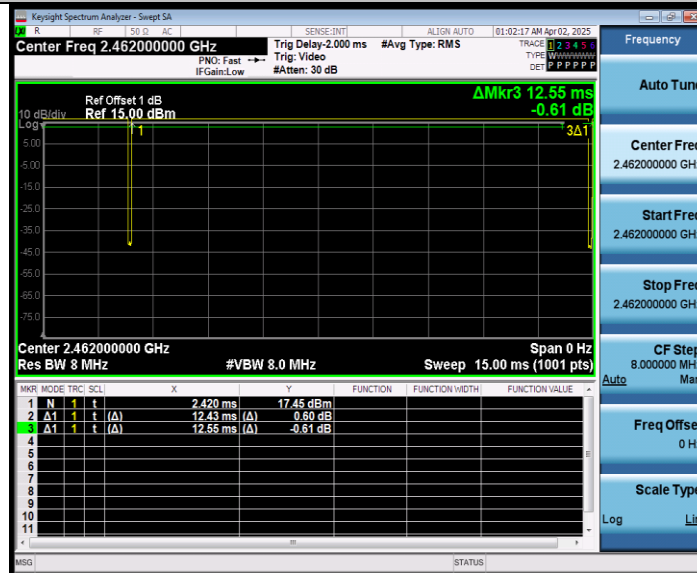
| TestMode  | Frequency[MHz] | Transmission Duration [ms] | Transmission Period [ms] | Duty Cycle [%] | Factor |
|-----------|----------------|----------------------------|--------------------------|----------------|--------|
| 11B       | 2412           | 12.44                      | 12.54                    | 99.20          | 0.03   |
|           | 2437           | 12.42                      | 12.54                    | 99.04          | 0.04   |
|           | 2462           | 12.43                      | 12.55                    | 99.04          | 0.04   |
| 11G       | 2412           | 2.06                       | 2.18                     | 94.50          | 0.25   |
|           | 2437           | 2.06                       | 2.18                     | 94.50          | 0.25   |
|           | 2462           | 2.06                       | 2.18                     | 94.50          | 0.25   |
| 11N20SISO | 2412           | 1.92                       | 2.03                     | 94.58          | 0.24   |
|           | 2437           | 1.92                       | 2.04                     | 94.12          | 0.26   |
|           | 2462           | 1.92                       | 2.04                     | 94.12          | 0.26   |
| 11N40SISO | 2422           | 0.94                       | 1.06                     | 88.68          | 0.52   |
|           | 2437           | 0.95                       | 1.07                     | 88.79          | 0.52   |
|           | 2452           | 0.94                       | 1.06                     | 88.68          | 0.52   |

## Test Graphs

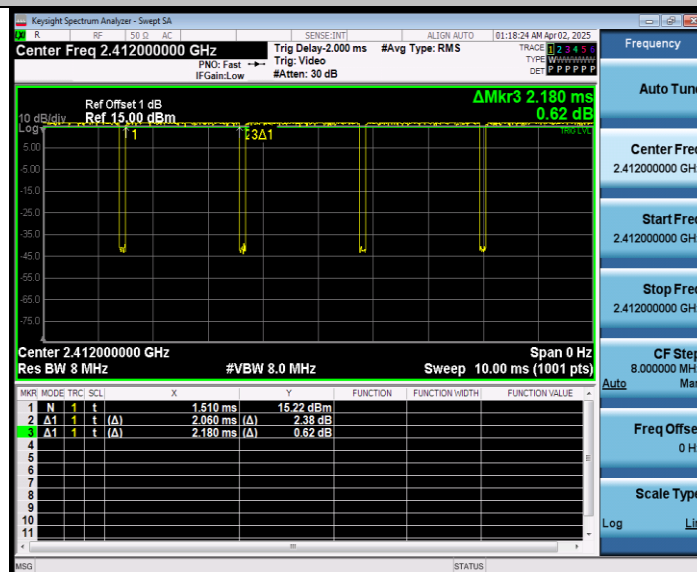




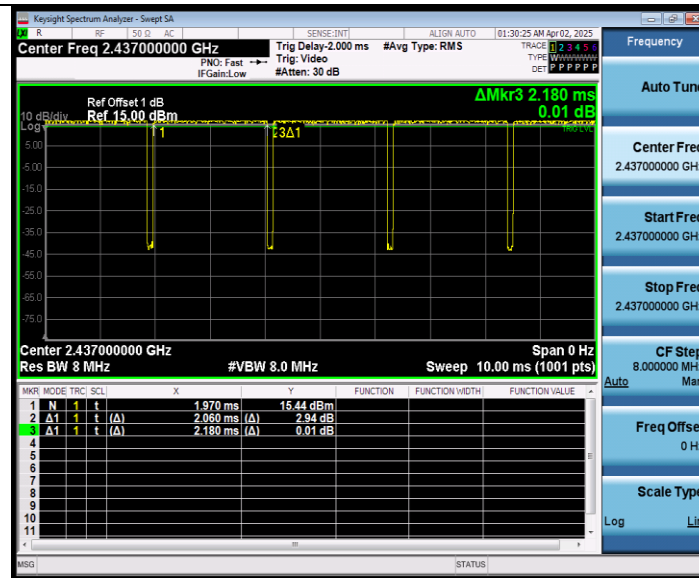
11B\_Ant1\_2462



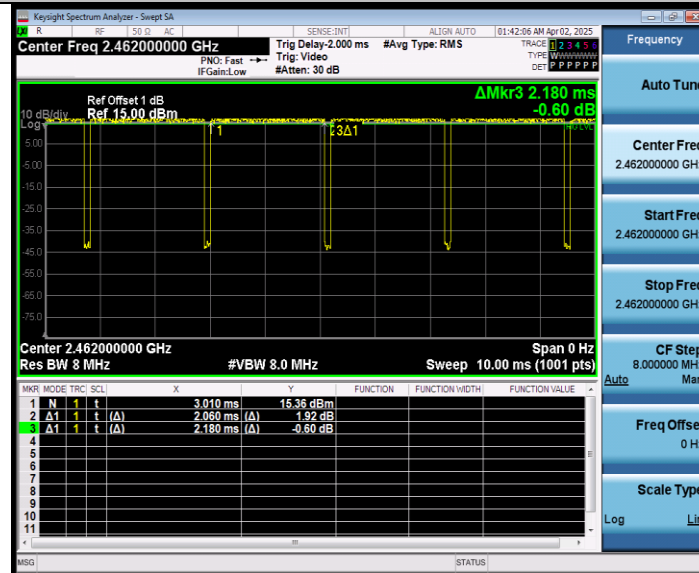
11G\_Ant1\_2412



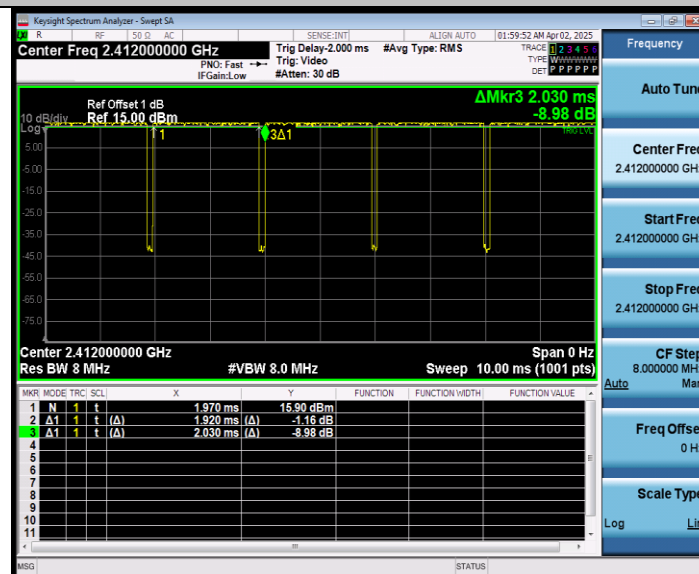
11G\_Ant1\_2437



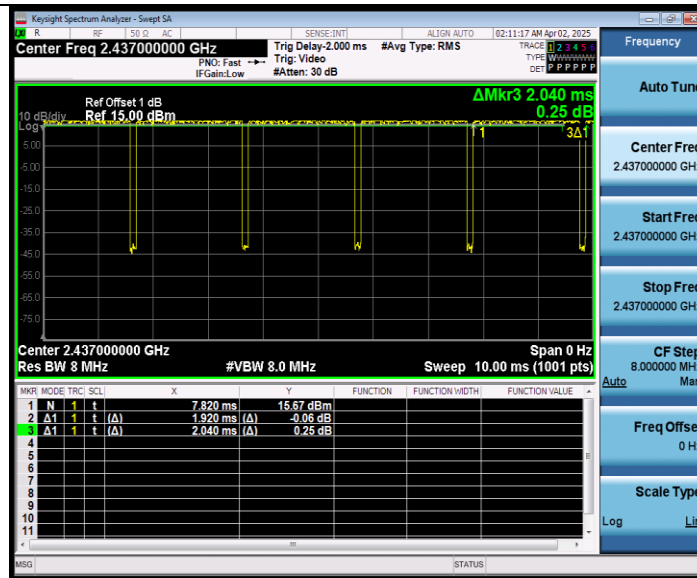
11G\_Ant1\_2462



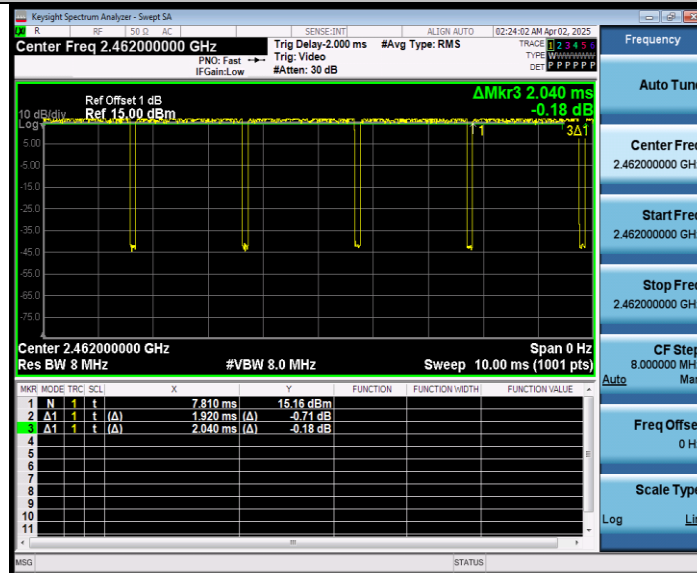
11N20SISO\_Ant1\_2412



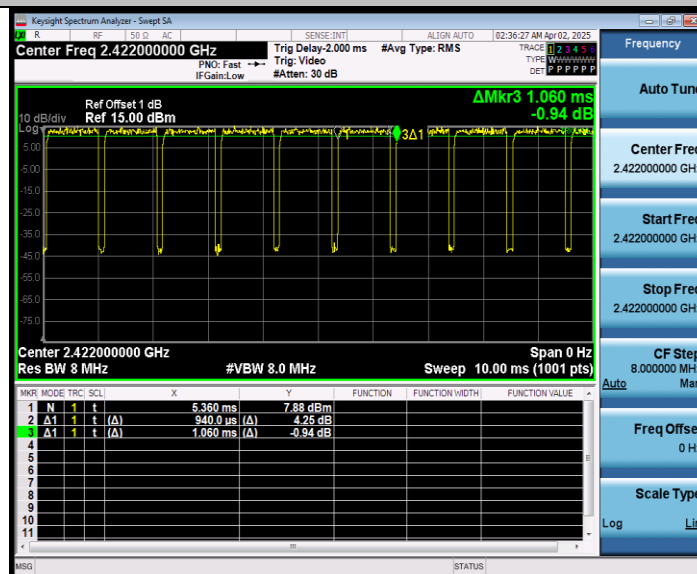
11N20SISO\_Ant1\_2437



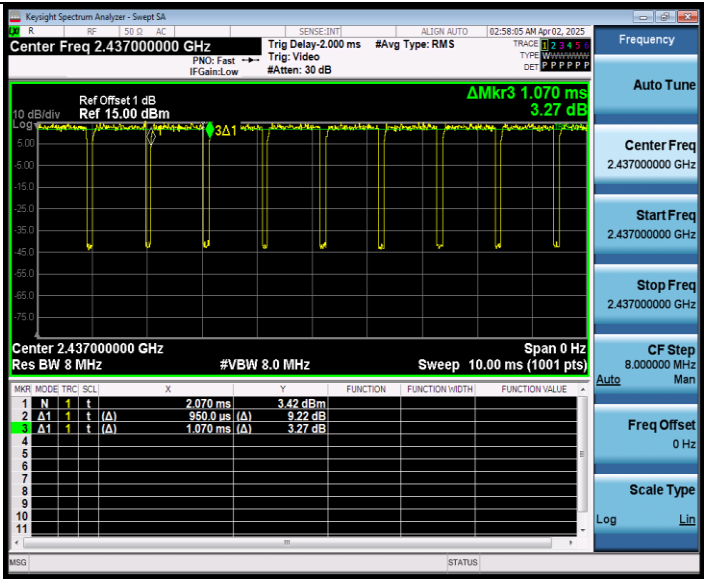
11N20SISO\_Ant1\_2462



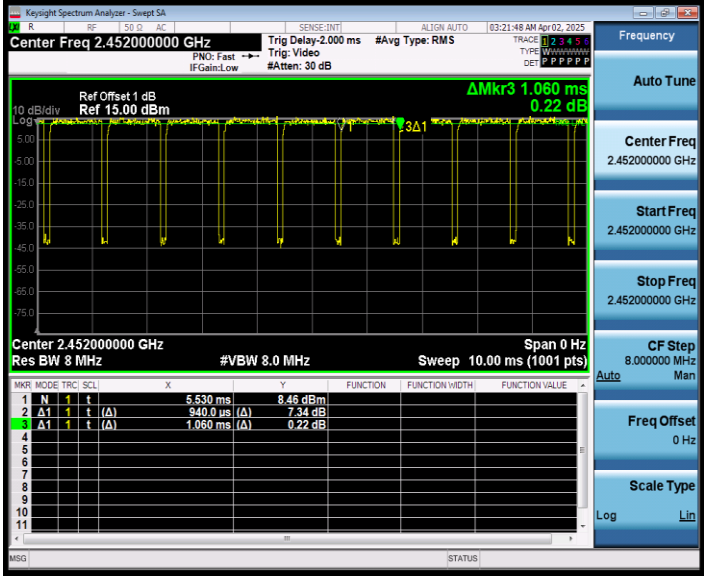
11N40SISO\_Ant1\_2422



11N40SISO\_Ant1\_2437



11N40SISO\_Ant1\_2452



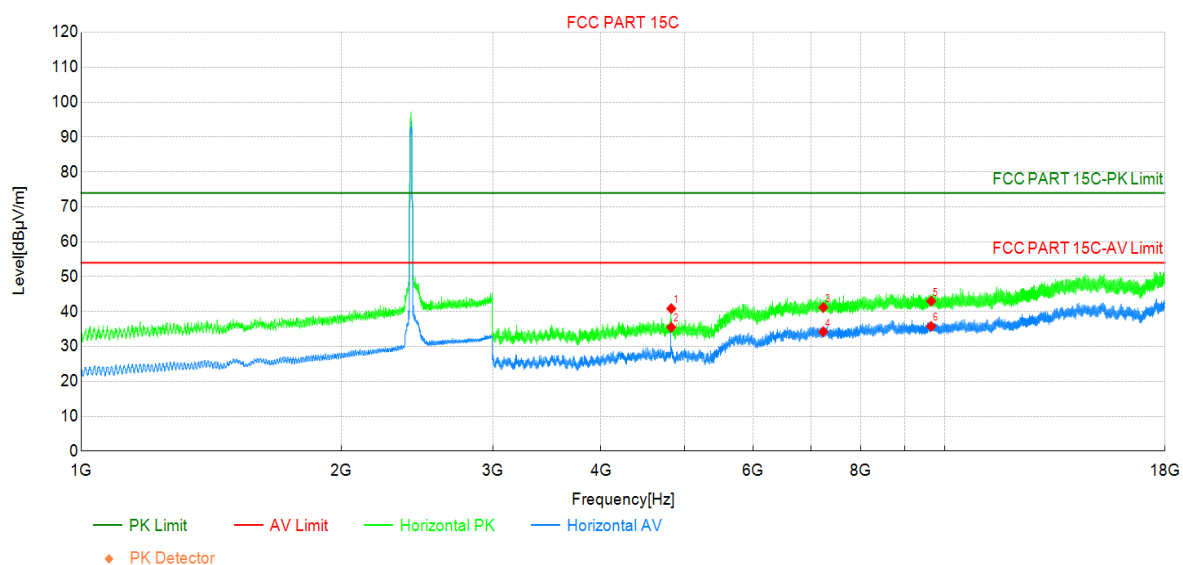
## Appendix G: Emissions in Restricted Bands

### Test Report

#### Project Information

|                |                                      |       |                  |
|----------------|--------------------------------------|-------|------------------|
| Profile:       | 2520983R                             | EUT:  | Smart Controller |
| Mode:          | Mode1:Transmit at 2412MHz by 802.11b | Volta | 120 Vac / 60 Hz  |
| Environment:   | Temp: 25°C ; Humi:60%                | Engi  | Reyn Chen        |
| Test Standard: | FCC PART 15C                         |       |                  |

#### Test Graph



#### Suspected Data List

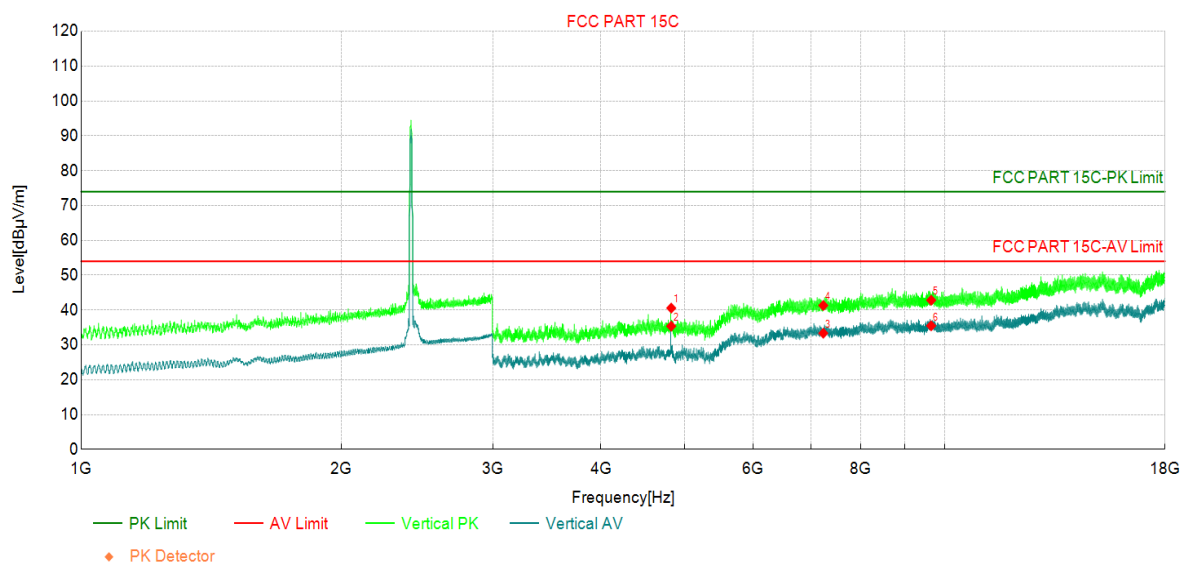
| NO | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Det | Pol    | Verdict |
|----|-----------------|----------------|----------------|---------------|----------------|-------------|-----|--------|---------|
| 1  | 4824.00         | 46.88          | 40.84          | -6.04         | 74.00          | 33.16       | PK  | Horizo | PASS    |
| 2  | 4824.00         | 41.53          | 35.49          | -6.04         | 54.00          | 18.51       | AV  | Horizo | PASS    |
| 3  | 7236.00         | 38.21          | 41.18          | 2.97          | 74.00          | 32.82       | PK  | Horizo | PASS    |
| 4  | 7236.00         | 31.26          | 34.23          | 2.97          | 54.00          | 19.77       | AV  | Horizo | PASS    |
| 5  | 9648.00         | 36.89          | 42.97          | 6.08          | 74.00          | 31.03       | PK  | Horizo | PASS    |
| 6  | 9648.00         | 29.68          | 35.76          | 6.08          | 54.00          | 18.24       | AV  | Horizo | PASS    |

## Test Report

### Project Information

|                |                                      |       |                  |
|----------------|--------------------------------------|-------|------------------|
| Profile:       | 2520983R                             | EUT:  | Smart Controller |
| Mode:          | Mode1:Transmit at 2412MHz by 802.11b | Volta | 120 Vac / 60 Hz  |
| Environment:   | Temp: 25°C ; Humi:60%                | Engi  | Reyn Chen        |
| Test Standard: | FCC PART 15C                         |       |                  |

### Test Graph



### Suspected Data List

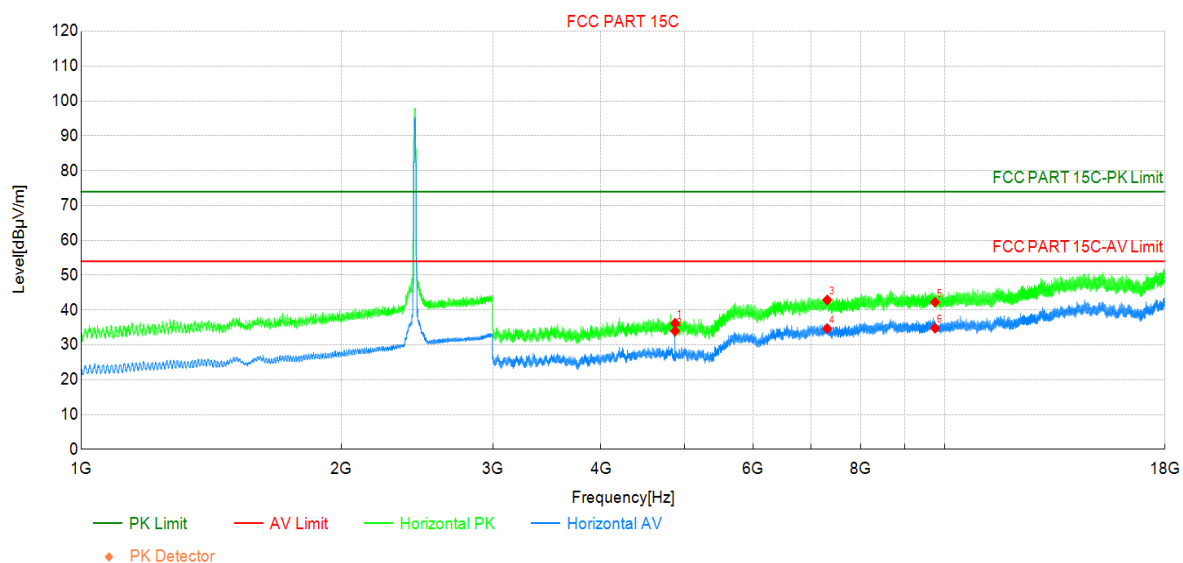
| NO | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Det | Pol    | Verdict |
|----|-----------------|----------------|----------------|---------------|----------------|-------------|-----|--------|---------|
| 1  | 4824.00         | 46.59          | 40.55          | -6.04         | 74.00          | 33.45       | PK  | Vertic | PASS    |
| 2  | 4824.00         | 41.40          | 35.36          | -6.04         | 54.00          | 18.64       | AV  | Vertic | PASS    |
| 3  | 7236.00         | 30.37          | 33.34          | 2.97          | 54.00          | 20.66       | AV  | Vertic | PASS    |
| 4  | 7236.00         | 38.33          | 41.30          | 2.97          | 74.00          | 32.70       | PK  | Vertic | PASS    |
| 5  | 9648.00         | 36.73          | 42.81          | 6.08          | 74.00          | 31.19       | PK  | Vertic | PASS    |
| 6  | 9648.00         | 29.39          | 35.47          | 6.08          | 54.00          | 18.53       | AV  | Vertic | PASS    |

## Test Report

### Project Information

|                |                                      |       |                  |
|----------------|--------------------------------------|-------|------------------|
| Profile:       | 2520983R                             | EUT:  | Smart Controller |
| Mode:          | Mode1:Transmit at 2437MHz by 802.11b | Volta | 120 Vac / 60 Hz  |
| Environment:   | Temp: 25°C ; Humi:60%                | Engi  | Reyn Chen        |
| Test Standard: | FCC PART 15C                         |       |                  |

### Test Graph



### Suspected Data List

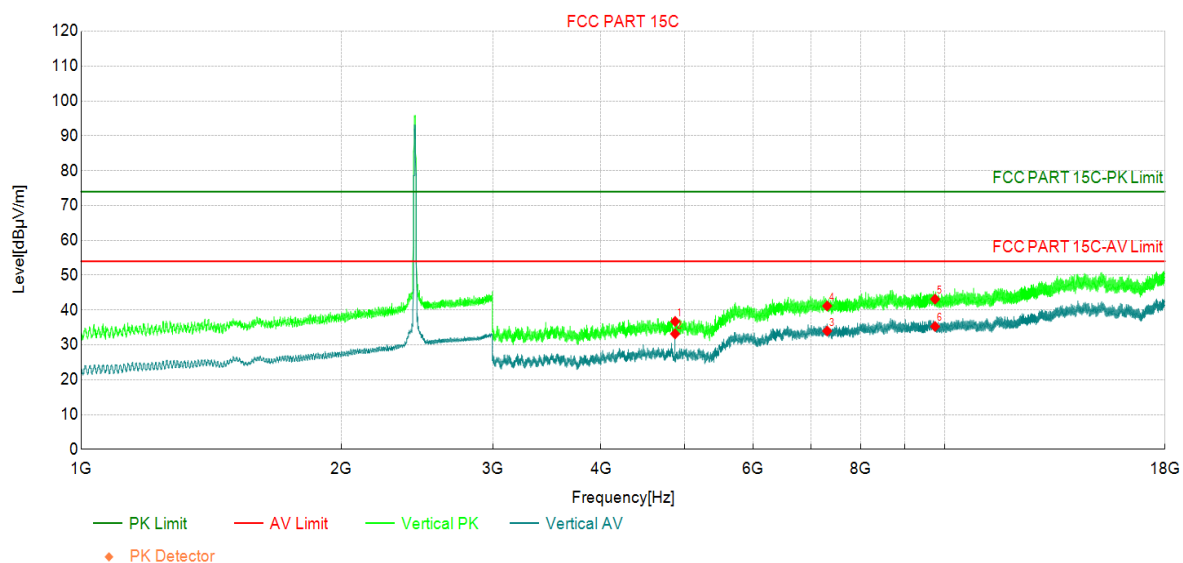
| NO | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Det | Pol    | Verdict |
|----|-----------------|----------------|----------------|---------------|----------------|-------------|-----|--------|---------|
| 1  | 4874.00         | 42.28          | 36.20          | -6.08         | 74.00          | 37.80       | PK  | Horizo | PASS    |
| 2  | 4874.00         | 40.03          | 33.95          | -6.08         | 54.00          | 20.05       | AV  | Horizo | PASS    |
| 3  | 7311.00         | 40.02          | 42.89          | 2.87          | 74.00          | 31.11       | PK  | Horizo | PASS    |
| 4  | 7311.00         | 31.82          | 34.69          | 2.87          | 54.00          | 19.31       | AV  | Horizo | PASS    |
| 5  | 9748.00         | 36.08          | 42.24          | 6.16          | 74.00          | 31.76       | PK  | Horizo | PASS    |
| 6  | 9748.00         | 28.63          | 34.79          | 6.16          | 54.00          | 19.21       | AV  | Horizo | PASS    |

## Test Report

### Project Information

|                |                                      |       |                  |
|----------------|--------------------------------------|-------|------------------|
| Profile:       | 2520983R                             | EUT:  | Smart Controller |
| Mode:          | Mode1:Transmit at 2437MHz by 802.11b | Volta | 120 Vac / 60 Hz  |
| Environment:   | Temp: 25°C ; Humi:60%                | Engi  | Reyn Chen        |
| Test Standard: | FCC PART 15C                         |       |                  |

### Test Graph



### Suspected Data List

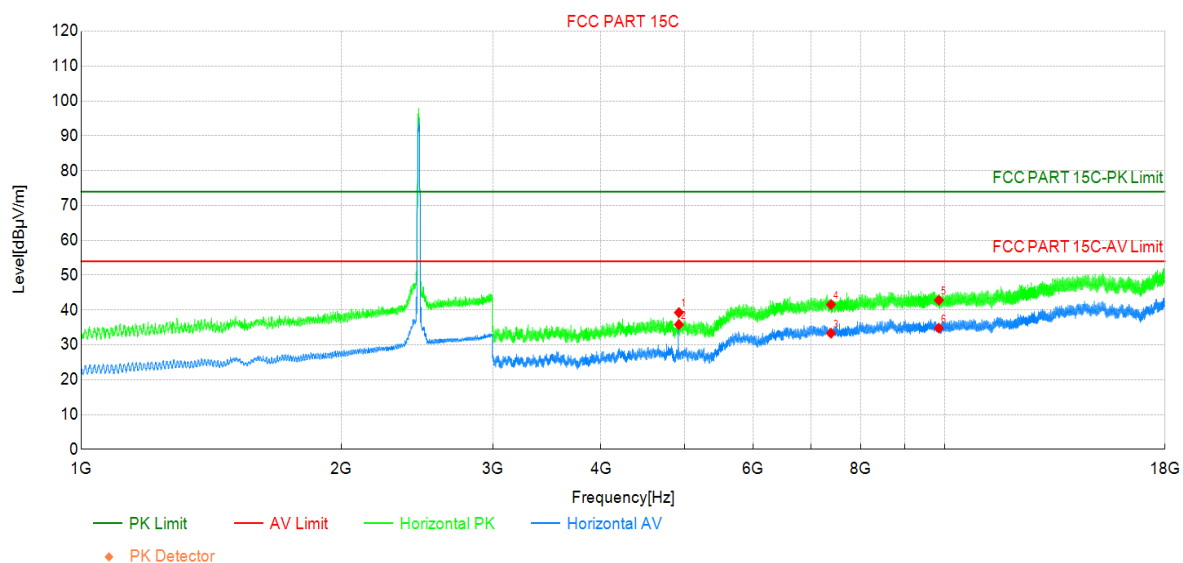
| NO | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Det | Pol    | Verdict |
|----|-----------------|----------------|----------------|---------------|----------------|-------------|-----|--------|---------|
| 1  | 4874.00         | 42.80          | 36.72          | -6.08         | 74.00          | 37.28       | PK  | Vertic | PASS    |
| 2  | 4874.00         | 39.24          | 33.16          | -6.08         | 54.00          | 20.84       | AV  | Vertic | PASS    |
| 3  | 7311.00         | 31.10          | 33.97          | 2.87          | 54.00          | 20.03       | AV  | Vertic | PASS    |
| 4  | 7311.00         | 38.30          | 41.17          | 2.87          | 74.00          | 32.83       | PK  | Vertic | PASS    |
| 5  | 9748.00         | 36.96          | 43.12          | 6.16          | 74.00          | 30.88       | PK  | Vertic | PASS    |
| 6  | 9748.00         | 29.13          | 35.29          | 6.16          | 54.00          | 18.71       | AV  | Vertic | PASS    |

## Test Report

### Project Information

|                |                                      |       |                  |
|----------------|--------------------------------------|-------|------------------|
| Profile:       | 2520983R                             | EUT:  | Smart Controller |
| Mode:          | Mode1:Transmit at 2462MHz by 802.11b | Volta | 120 Vac / 60 Hz  |
| Environment:   | Temp: 25°C ; Humi:60%                | Engi  | Reyn Chen        |
| Test Standard: | FCC PART 15C                         |       |                  |

### Test Graph



### Suspected Data List

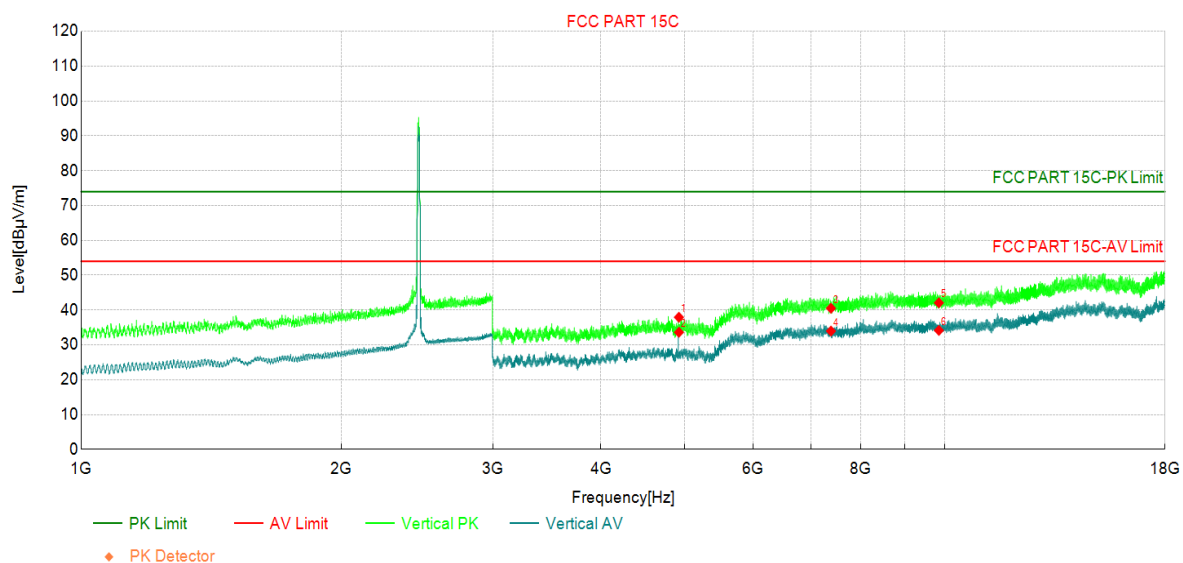
| NO | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Det | Pol    | Verdict |
|----|-----------------|----------------|----------------|---------------|----------------|-------------|-----|--------|---------|
| 1  | 4924.00         | 45.03          | 39.27          | -5.76         | 74.00          | 34.73       | PK  | Horizo | PASS    |
| 2  | 4924.00         | 41.59          | 35.83          | -5.76         | 54.00          | 18.17       | AV  | Horizo | PASS    |
| 3  | 7386.00         | 31.05          | 33.35          | 2.30          | 54.00          | 20.65       | AV  | Horizo | PASS    |
| 4  | 7386.00         | 39.29          | 41.59          | 2.30          | 74.00          | 32.41       | PK  | Horizo | PASS    |
| 5  | 9848.00         | 37.01          | 42.81          | 5.80          | 74.00          | 31.19       | PK  | Horizo | PASS    |
| 6  | 9848.00         | 29.00          | 34.80          | 5.80          | 54.00          | 19.20       | AV  | Horizo | PASS    |

## Test Report

### Project Information

|                |                                      |       |                  |
|----------------|--------------------------------------|-------|------------------|
| Profile:       | 2520983R                             | EUT:  | Smart Controller |
| Mode:          | Mode1:Transmit at 2462MHz by 802.11b | Volta | 120 Vac / 60 Hz  |
| Environment:   | Temp: 25°C ; Humi:60%                | Engi  | Reyn Chen        |
| Test Standard: | FCC PART 15C                         |       |                  |

### Test Graph



### Suspected Data List

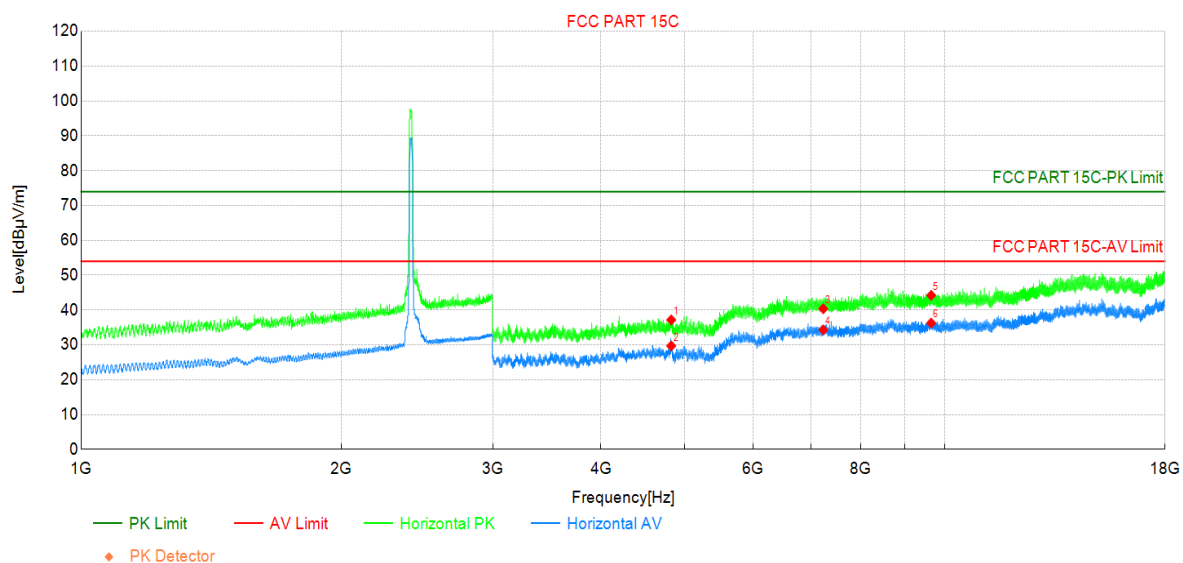
| NO | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Det | Pol    | Verdict |
|----|-----------------|----------------|----------------|---------------|----------------|-------------|-----|--------|---------|
| 1  | 4924.00         | 43.68          | 37.92          | -5.76         | 74.00          | 36.08       | PK  | Vertic | PASS    |
| 2  | 4924.00         | 39.37          | 33.61          | -5.76         | 54.00          | 20.39       | AV  | Vertic | PASS    |
| 3  | 7386.00         | 38.20          | 40.50          | 2.30          | 74.00          | 33.50       | PK  | Vertic | PASS    |
| 4  | 7386.00         | 31.66          | 33.96          | 2.30          | 54.00          | 20.04       | AV  | Vertic | PASS    |
| 5  | 9848.00         | 36.26          | 42.06          | 5.80          | 74.00          | 31.94       | PK  | Vertic | PASS    |
| 6  | 9848.00         | 28.35          | 34.15          | 5.80          | 54.00          | 19.85       | AV  | Vertic | PASS    |

## Test Report

### Project Information

|                |                                      |       |                  |
|----------------|--------------------------------------|-------|------------------|
| Profile:       | 2520983R                             | EUT:  | Smart Controller |
| Mode:          | Mode2:Transmit at 2412MHz by 802.11g | Volta | 120 Vac / 60 Hz  |
| Environment:   | Temp: 25°C ; Humi:60%                | Engi  | Reyn Chen        |
| Test Standard: | FCC PART 15C                         |       |                  |

### Test Graph



### Suspected Data List

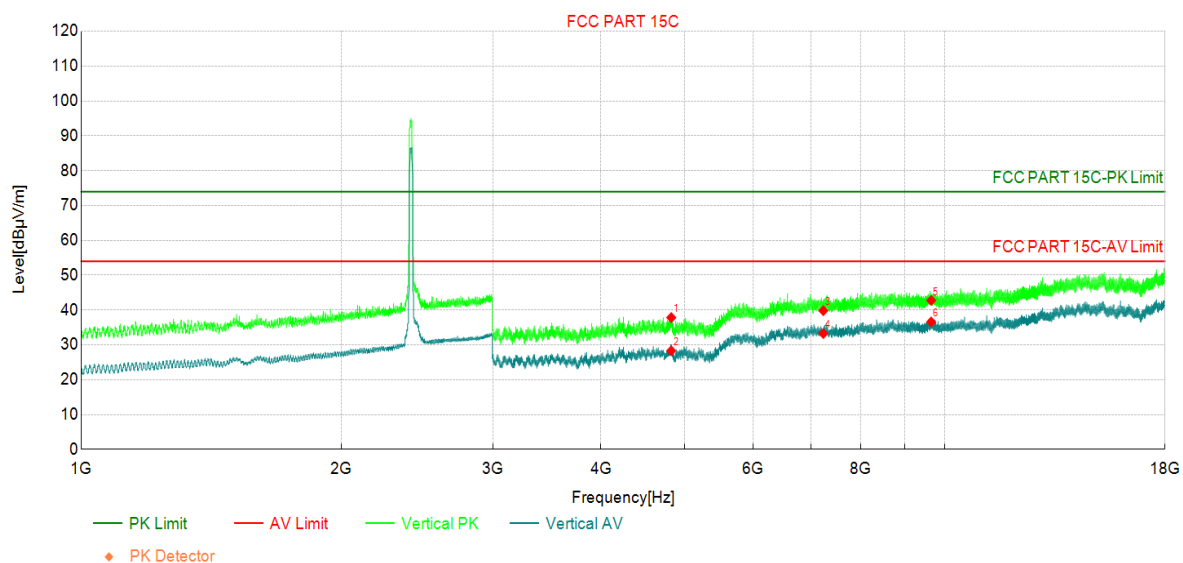
| NO | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Det | Pol    | Verdict |
|----|-----------------|----------------|----------------|---------------|----------------|-------------|-----|--------|---------|
| 1  | 4824.00         | 43.19          | 37.15          | -6.04         | 74.00          | 36.85       | PK  | Horizo | PASS    |
| 2  | 4824.00         | 35.74          | 29.70          | -6.04         | 54.00          | 24.30       | AV  | Horizo | PASS    |
| 3  | 7236.00         | 37.39          | 40.36          | 2.97          | 74.00          | 33.64       | PK  | Horizo | PASS    |
| 4  | 7236.00         | 31.33          | 34.30          | 2.97          | 54.00          | 19.70       | AV  | Horizo | PASS    |
| 5  | 9648.00         | 38.12          | 44.20          | 6.08          | 74.00          | 29.80       | PK  | Horizo | PASS    |
| 6  | 9648.00         | 30.18          | 36.26          | 6.08          | 54.00          | 17.74       | AV  | Horizo | PASS    |

## Test Report

### Project Information

|                |                                      |       |                  |
|----------------|--------------------------------------|-------|------------------|
| Profile:       | 2520983R                             | EUT:  | Smart Controller |
| Mode:          | Mode2:Transmit at 2412MHz by 802.11g | Volta | 120 Vac / 60 Hz  |
| Environment:   | Temp: 25°C ; Humi:60%                | Engi  | Reyn Chen        |
| Test Standard: | FCC PART 15C                         |       |                  |

### Test Graph



### Suspected Data List

| NO | Frequency [MHz] | Reading [dBμV] | Level [dBμV/m] | Factor [dB/m] | Limit [dBμV/m] | Margin [dB] | Det | Pol    | Verdict |
|----|-----------------|----------------|----------------|---------------|----------------|-------------|-----|--------|---------|
| 1  | 4824.00         | 43.87          | 37.83          | -6.04         | 74.00          | 36.17       | PK  | Vertic | PASS    |
| 2  | 4824.00         | 34.33          | 28.29          | -6.04         | 54.00          | 25.71       | AV  | Vertic | PASS    |
| 3  | 7236.00         | 36.85          | 39.82          | 2.97          | 74.00          | 34.18       | PK  | Vertic | PASS    |
| 4  | 7236.00         | 30.29          | 33.26          | 2.97          | 54.00          | 20.74       | AV  | Vertic | PASS    |
| 5  | 9648.00         | 36.67          | 42.75          | 6.08          | 74.00          | 31.25       | PK  | Vertic | PASS    |
| 6  | 9648.00         | 30.50          | 36.58          | 6.08          | 54.00          | 17.42       | AV  | Vertic | PASS    |