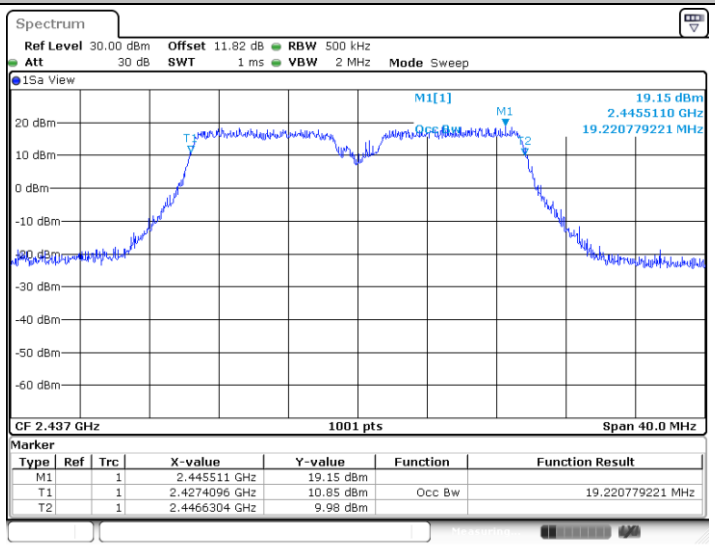
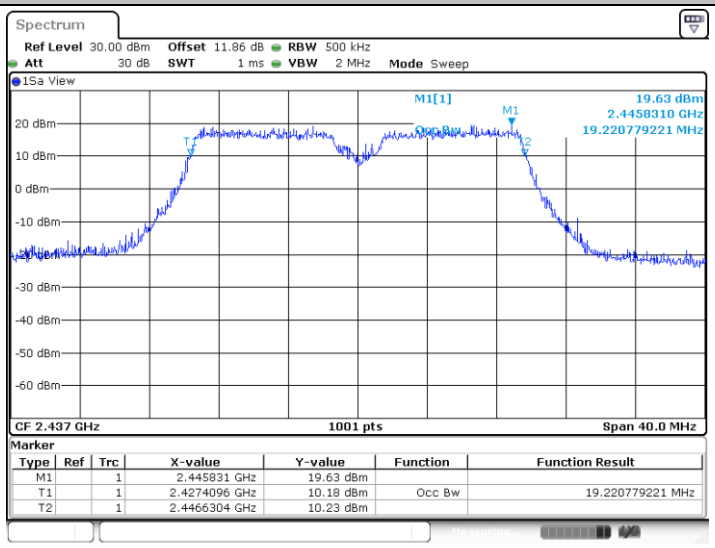
11BE20MIMO_Ant3_2437_52Tone_RU4



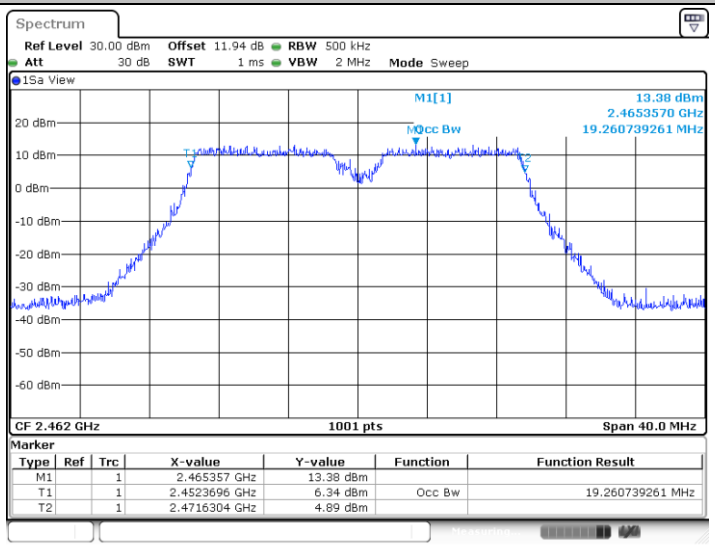

Date: 5.JUN.2024 09:55:42

11BE20MIMO_Ant4_2437_52Tone_RU4

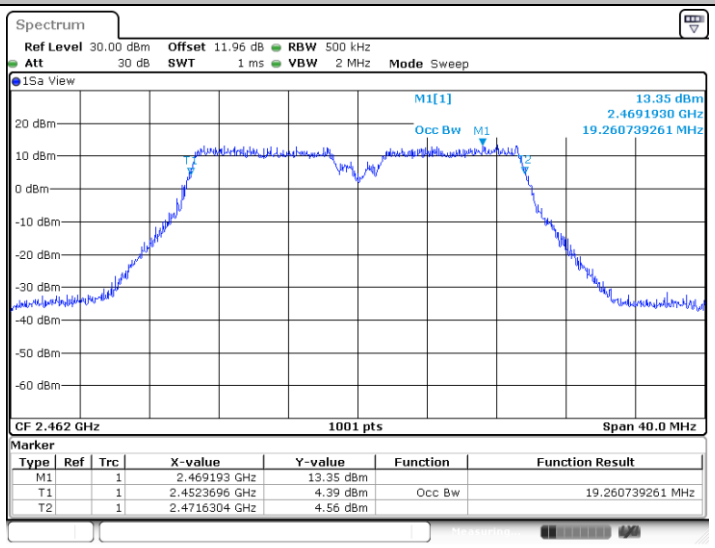



Date: 5.JUN.2024 09:55:48

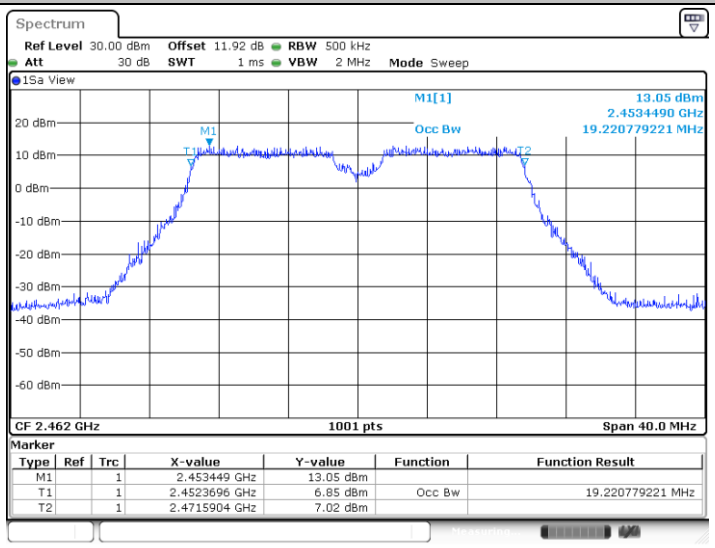
11BE20MIMO_Ant1_2462_52Tone_RU4




11BE20MIMO_Ant2_2462_52Tone_RU4

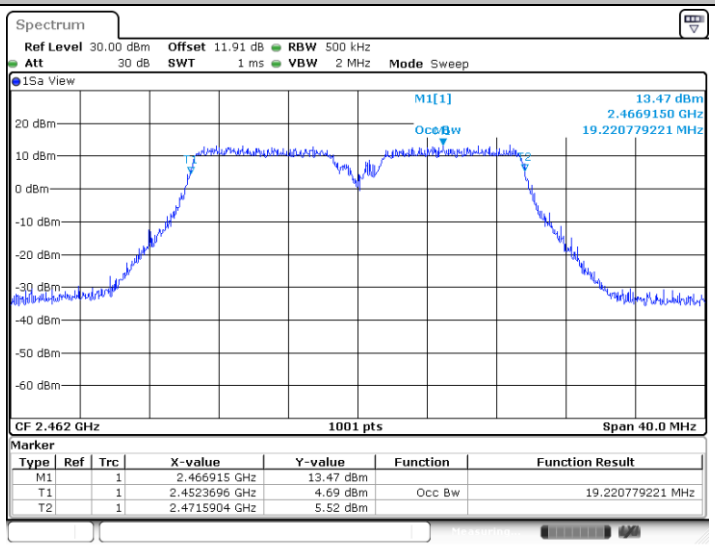


11BE20MIMO_Ant3_2462_52Tone_RU4



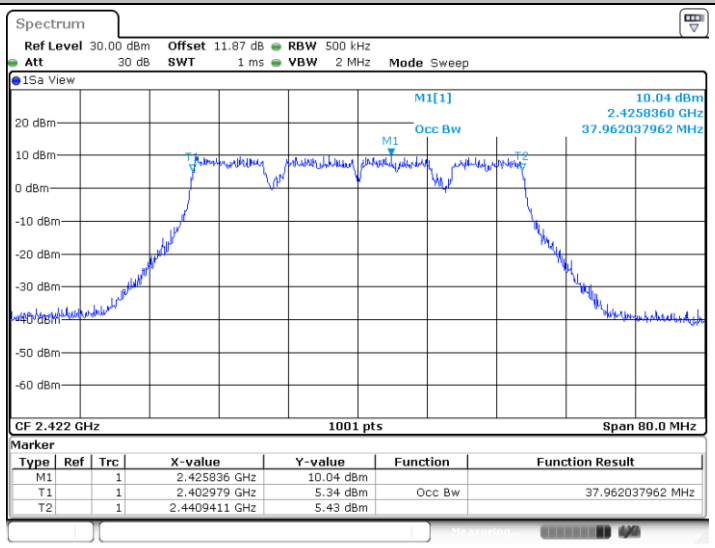

Date: 5.JUN.2024 10:16:18

11BE20MIMO_Ant4_2462_52Tone_RU4

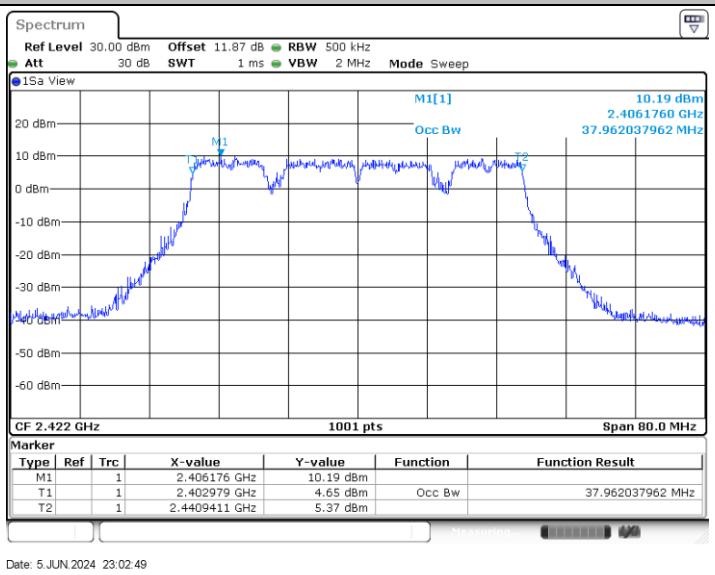



Date: 5.JUN.2024 10:16:23

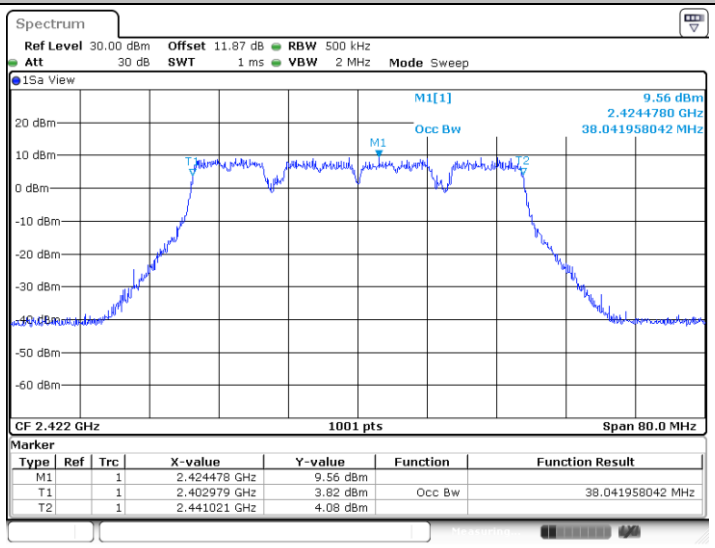
11BE40MIMO_Ant1_2422_52Tone_RU4




11BE40MIMO_Ant1_2422_52Tone_RU8



11BE40MIMO_Ant2_2422_52Tone_RU4

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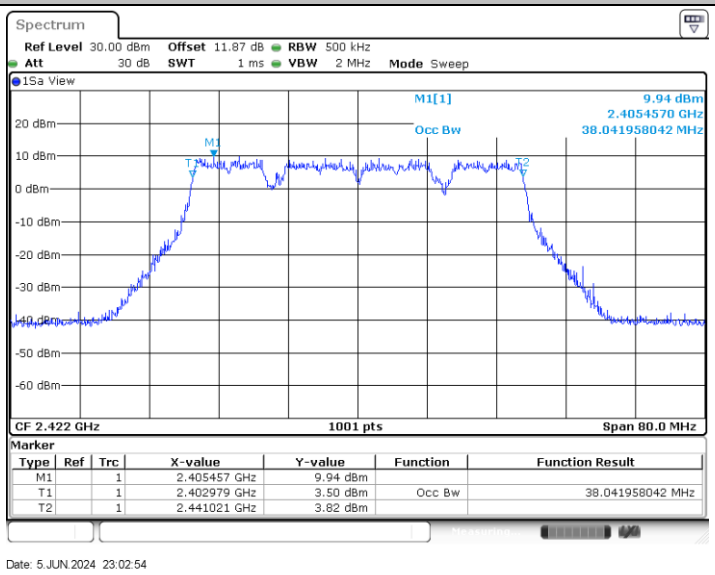
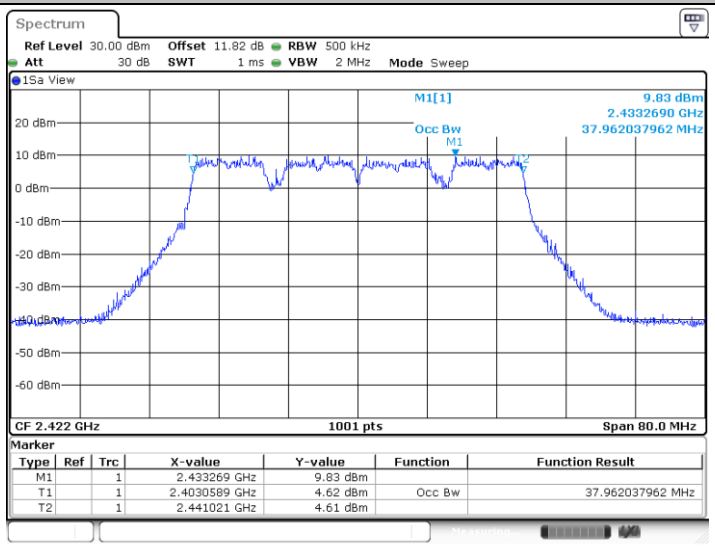
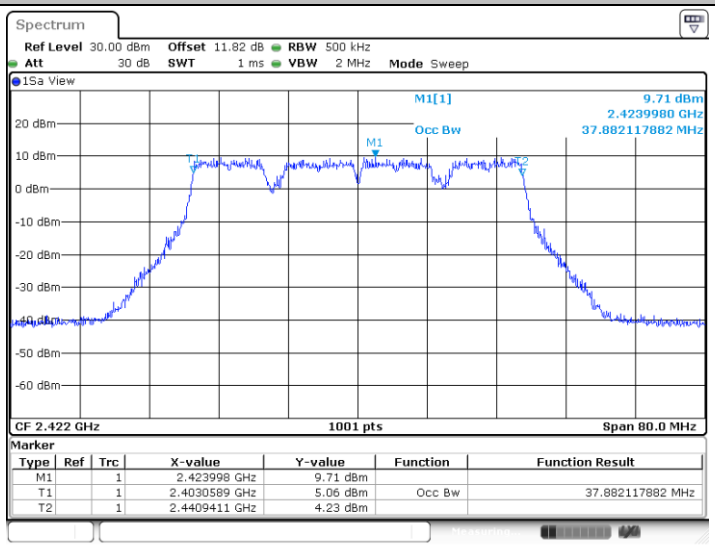


11BE40MIMO_Ant3_2422_52Tone_RU4



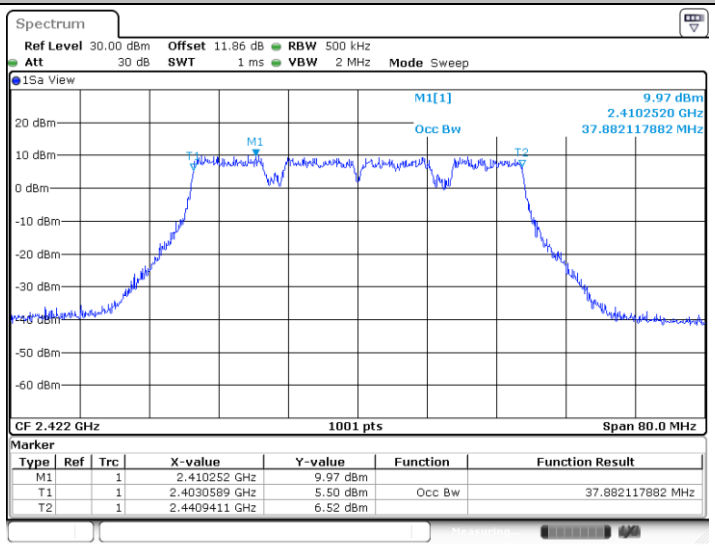

Date: 5.JUN.2024 22:59:52

11BE40MIMO_Ant3_2422_52Tone_RU8

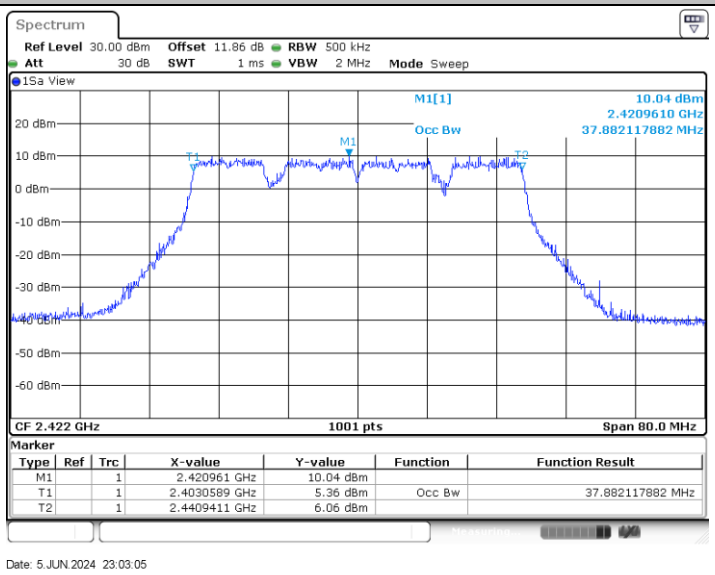



Date: 5.JUN.2024 23:03:00

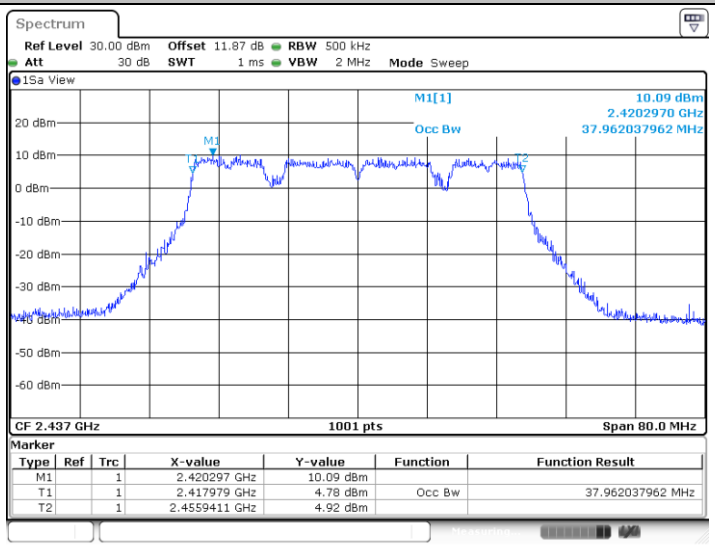
11BE40MIMO_Ant4_2422_52Tone_RU4




11BE40MIMO_Ant4_2422_52Tone_RU8

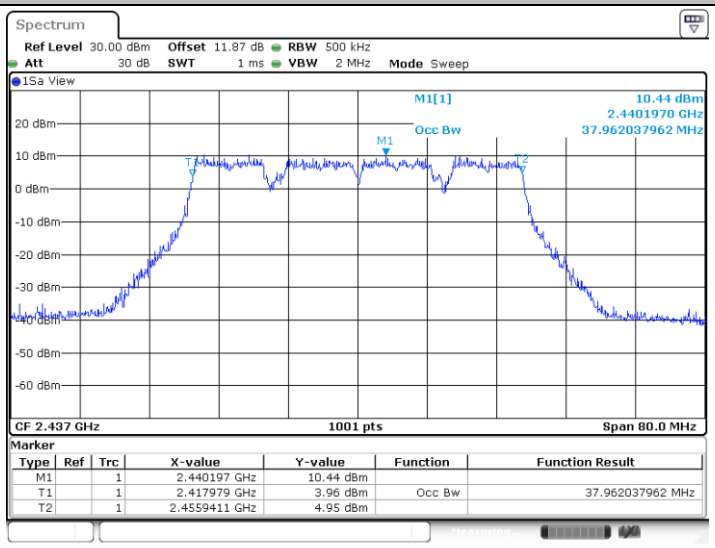


11BE40MIMO_Ant1_2437_52Tone_RU4



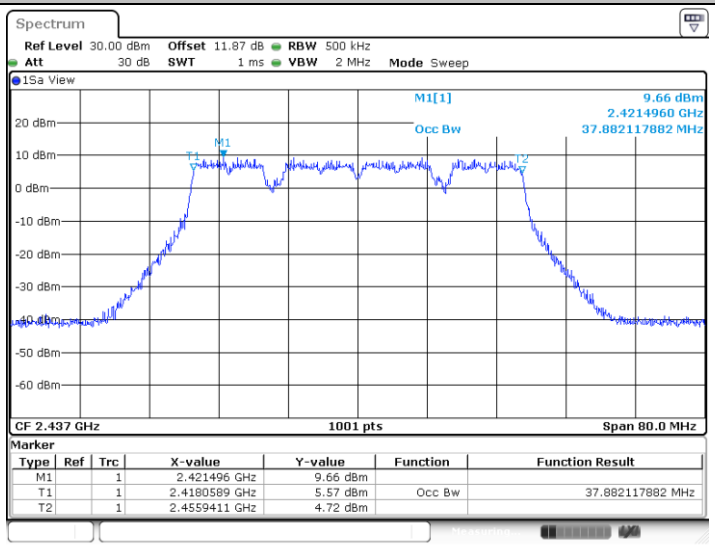

Date: 5.JUN.2024 23:00:18

11BE40MIMO_Ant1_2437_52Tone_RU8



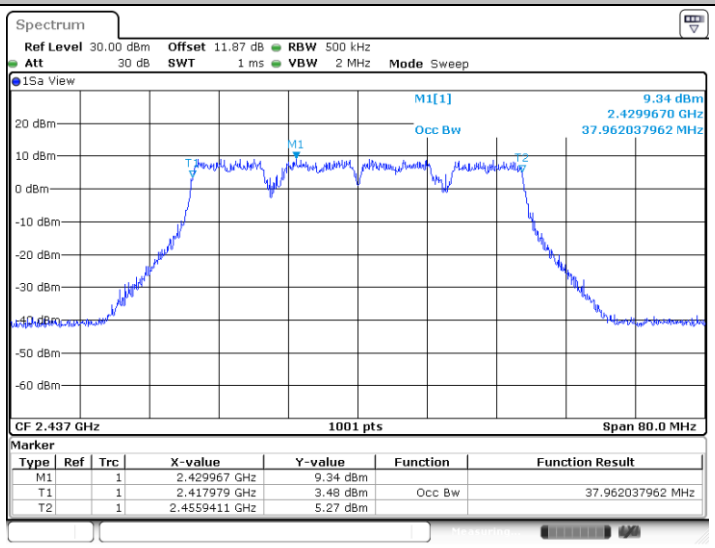

Date: 5.JUN.2024 23:03:27

11BE40MIMO_Ant2_2437_52Tone_RU4



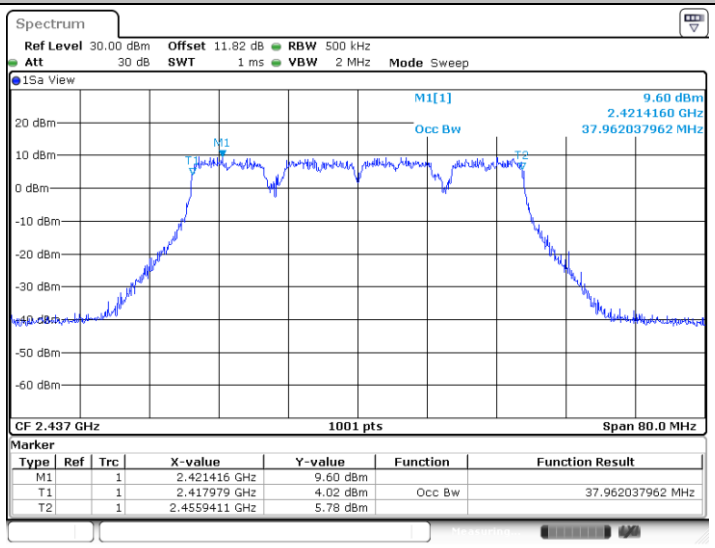

Date: 5.JUN.2024 23:00:23

11BE40MIMO_Ant2_2437_52Tone_RU8



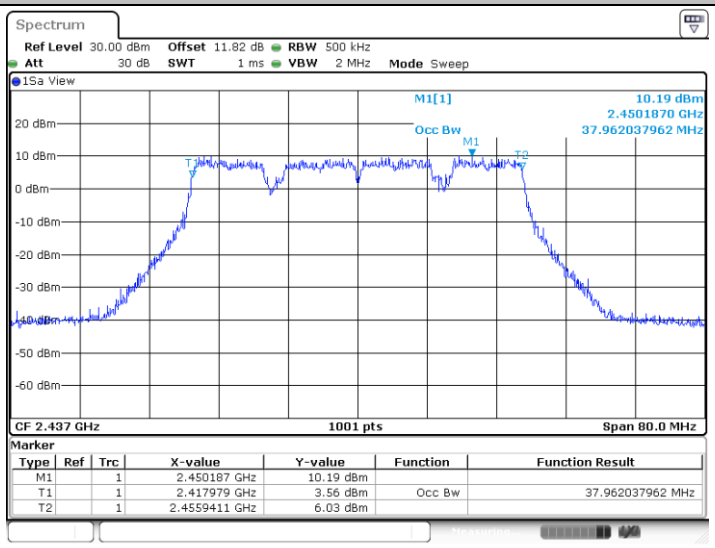

Date: 5.JUN.2024 23:03:33

## 11BE40MIMO_Ant3_2437_52Tone_RU4



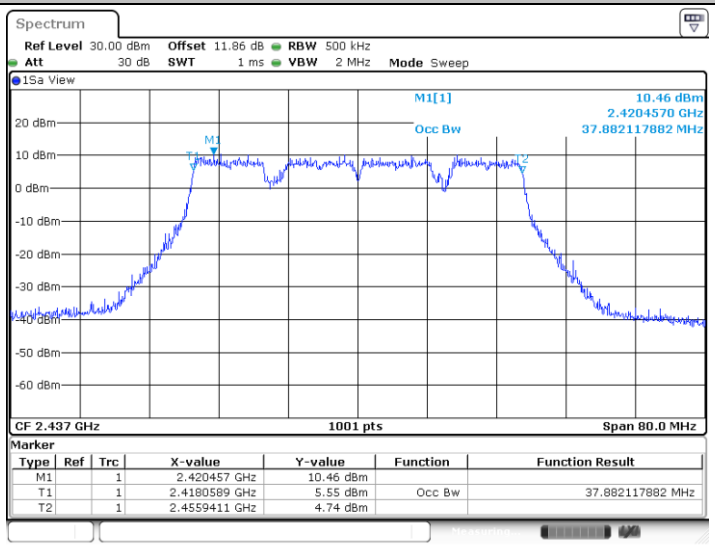

Date: 5.JUN.2024 23:00:29

## 11BE40MIMO_Ant3_2437_52Tone_RU8

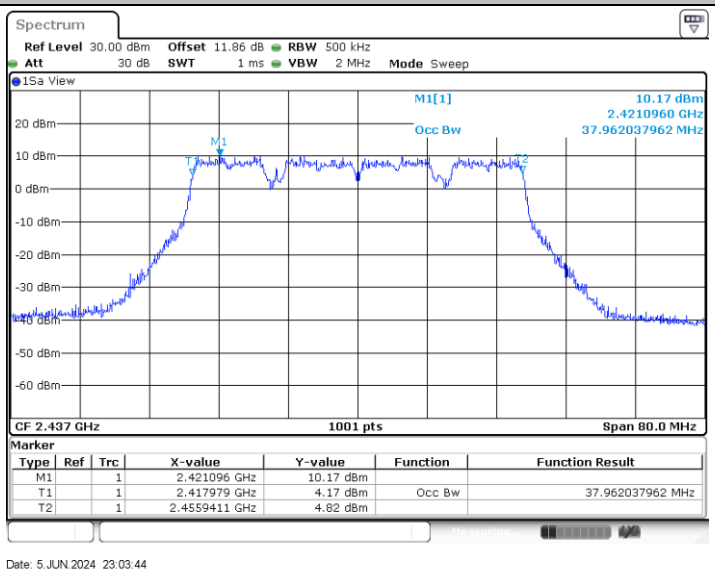



Date: 5.JUN.2024 23:03:38

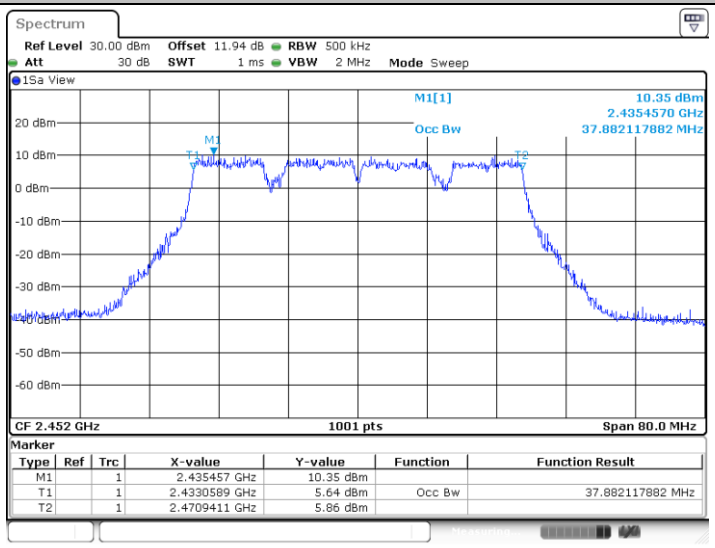
11BE40MIMO_Ant4_2437_52Tone_RU4




11BE40MIMO_Ant4_2437_52Tone_RU8

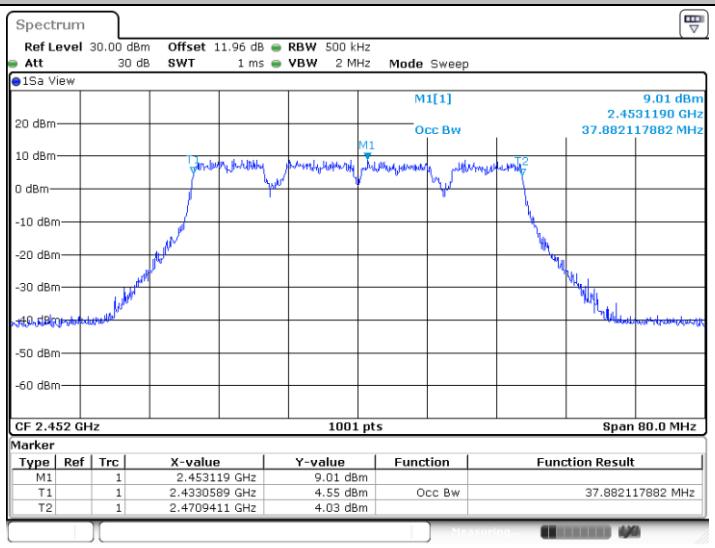


11BE40MIMO_Ant1_2452_52Tone_RU8



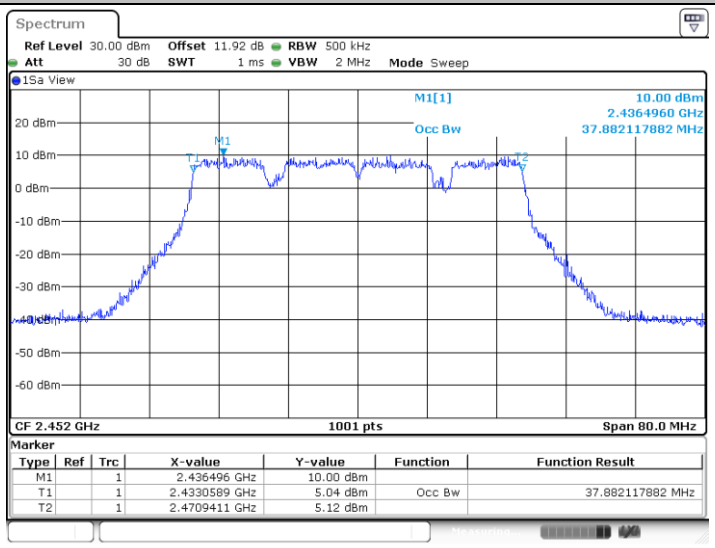

Date: 5.JUN.2024 23:56:57

11BE40MIMO_Ant2_2452_52Tone_RU8

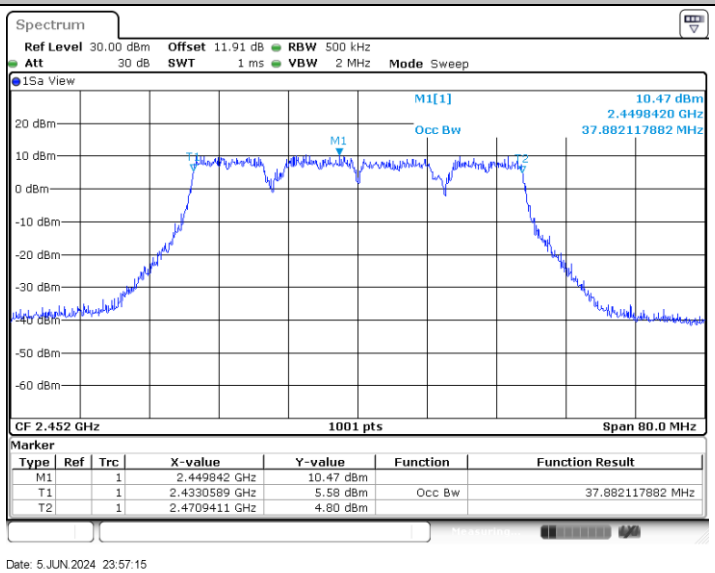



Date: 5.JUN.2024 23:57:03

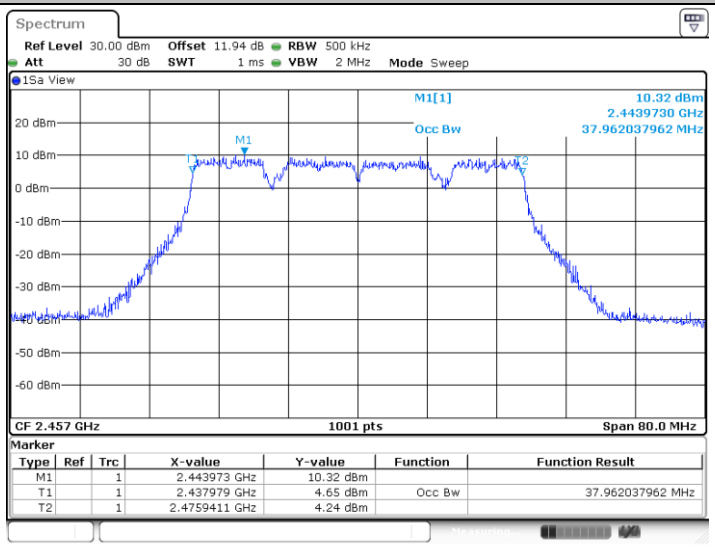
11BE40MIMO_Ant3_2452_52Tone_RU8




11BE40MIMO_Ant4_2452_52Tone_RU8

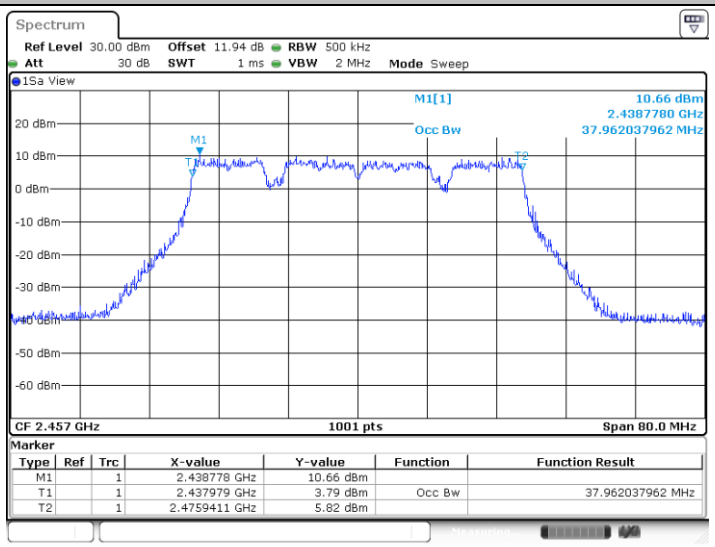


11BE40MIMO_Ant1_2457_52Tone_RU4



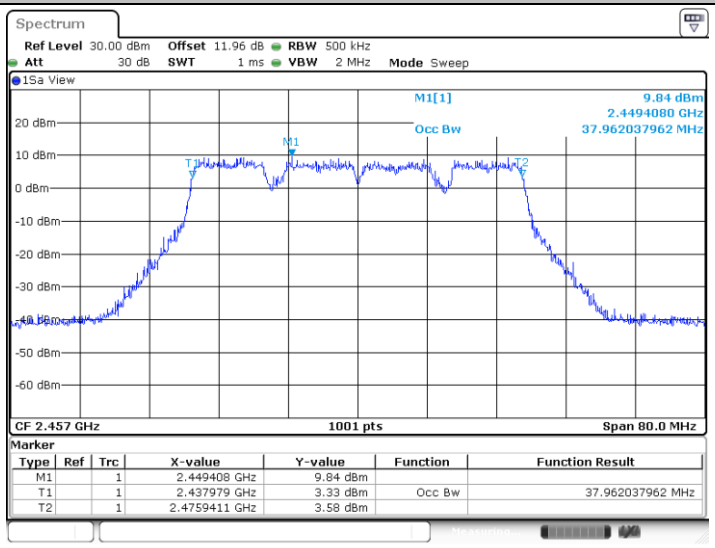

Date: 5.JUN.2024 23:00:53

11BE40MIMO_Ant1_2457_52Tone_RU8



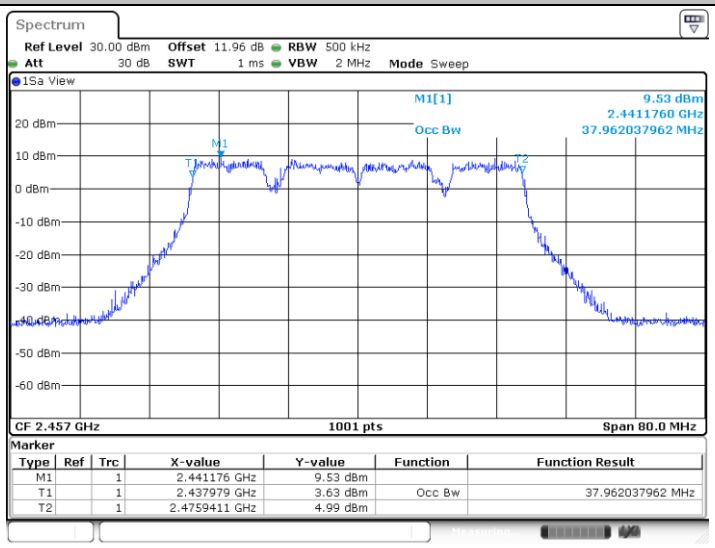

Date: 5.JUN.2024 23:04:07

11BE40MIMO_Ant2_2457_52Tone_RU4



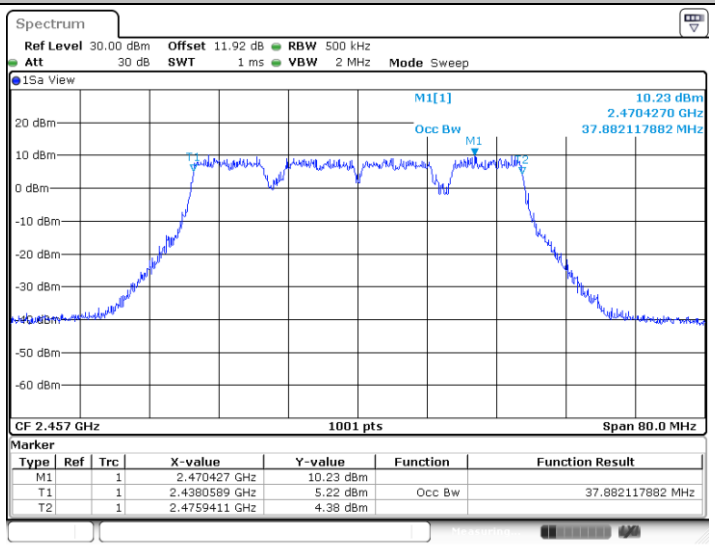

Date: 5.JUN.2024 23:01:00

11BE40MIMO_Ant2_2457_52Tone_RU8



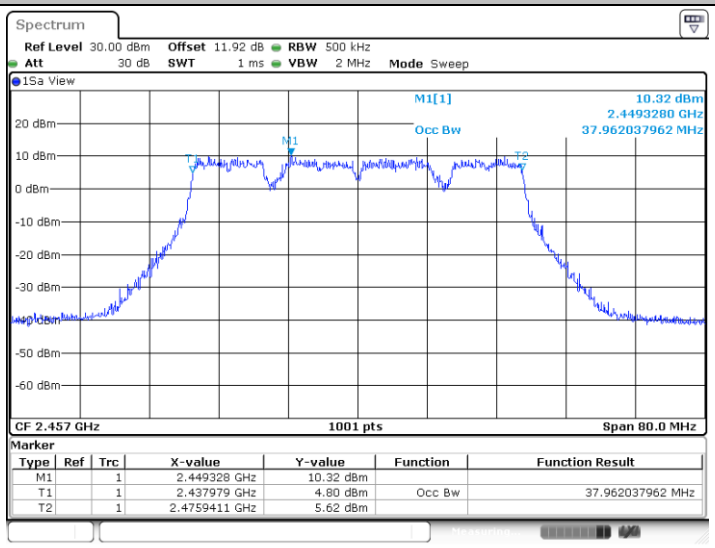

Date: 5.JUN.2024 23:04:13

## 11BE40MIMO_Ant3_2457_52Tone_RU4



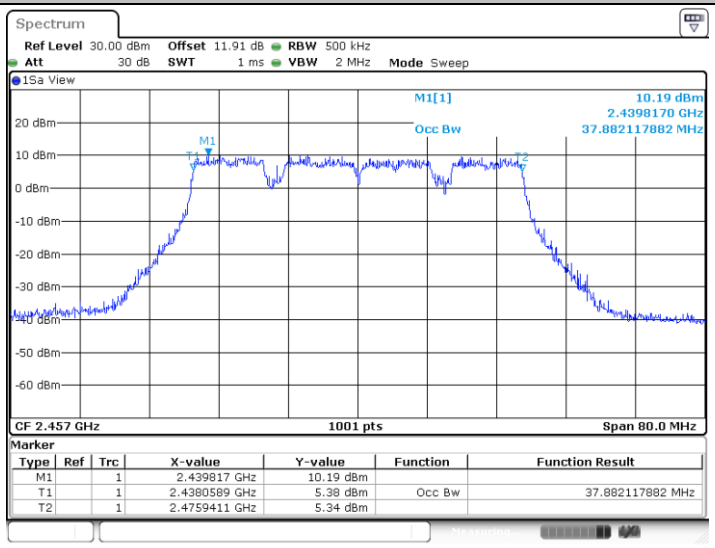

Date: 5.JUN.2024 23:01:05

## 11BE40MIMO_Ant3_2457_52Tone_RU8



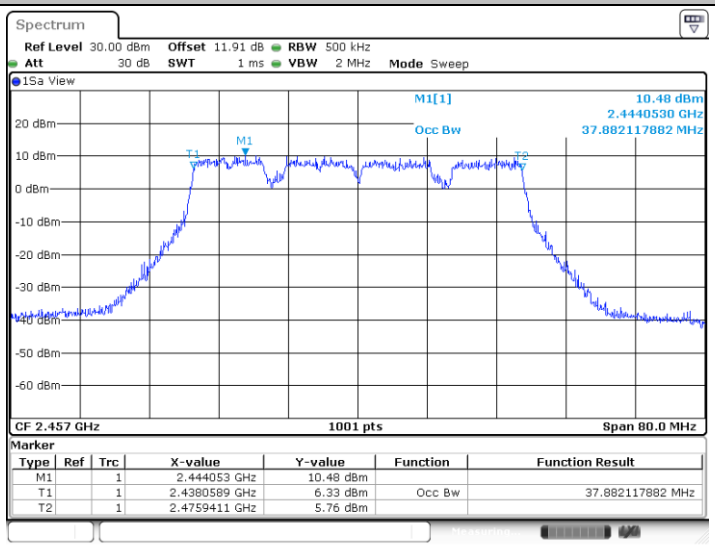

Date: 5.JUN.2024 23:04:18

## 11BE40MIMO_Ant4_2457_52Tone_RU4




Date: 5.JUN.2024 23:01:11

## 11BE40MIMO_Ant4_2457_52Tone_RU8




Date: 5.JUN.2024 23:04:25

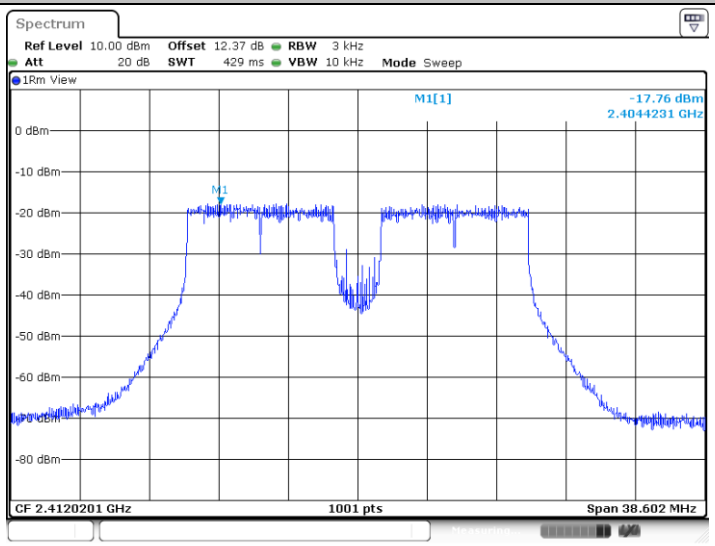
# Maximum power spectral density

## Test Result

| TestMode | Antenna | Freq(MHz) | RuSize | RuIndex | Result [dBm/3kHz] | Limit [dBm/3kHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11BE20MIMO | Ant1 | 2412 | 52Tone | RU4 | -17.76 | ≤8.00 | PASS |
| | Ant2 | 2412 | 52Tone | RU4 | -17.77 | ≤8.00 | PASS |
| | Ant3 | 2412 | 52Tone | RU4 | -17.63 | ≤8.00 | PASS |
| | Ant4 | 2412 | 52Tone | RU4 | -17.45 | ≤8.00 | PASS |
| | total | 2412 | 52Tone | RU4 | -11.63 | ≤8.00 | PASS |
| | Ant1 | 2437 | 52Tone | RU4 | -12.58 | ≤8.00 | PASS |
| | Ant2 | 2437 | 52Tone | RU4 | -12.2 | ≤8.00 | PASS |
| | Ant3 | 2437 | 52Tone | RU4 | -12.15 | ≤8.00 | PASS |
| | Ant4 | 2437 | 52Tone | RU4 | -11.78 | ≤8.00 | PASS |
| | total | 2437 | 52Tone | RU4 | -6.15 | ≤8.00 | PASS |
| | Ant1 | 2462 | 52Tone | RU4 | -17.58 | ≤8.00 | PASS |
| | Ant2 | 2462 | 52Tone | RU4 | -17.43 | ≤8.00 | PASS |
| | Ant3 | 2462 | 52Tone | RU4 | -17.83 | ≤8.00 | PASS |
| | Ant4 | 2462 | 52Tone | RU4 | -17.21 | ≤8.00 | PASS |
| | total | 2462 | 52Tone | RU4 | -11.49 | ≤8.00 | PASS |
| 11BE40MIMO | Ant1 | 2422 | 52Tone | RU8 | -21.37 | ≤8.00 | PASS |
| | Ant2 | 2422 | 52Tone | RU8 | -21.32 | ≤8.00 | PASS |
| | Ant3 | 2422 | 52Tone | RU8 | -21.4 | ≤8.00 | PASS |
| | Ant4 | 2422 | 52Tone | RU8 | -21.25 | ≤8.00 | PASS |
| | total | 2422 | 52Tone | RU8 | -15.31 | ≤8.00 | PASS |
| | Ant1 | 2437 | 52Tone | RU8 | -19.98 | ≤8.00 | PASS |
| | Ant2 | 2437 | 52Tone | RU8 | -20.82 | ≤8.00 | PASS |
| | Ant3 | 2437 | 52Tone | RU8 | -20.32 | ≤8.00 | PASS |
| | Ant4 | 2437 | 52Tone | RU8 | -20.25 | ≤8.00 | PASS |
| | total | 2437 | 52Tone | RU8 | -14.31 | ≤8.00 | PASS |
| | Ant1 | 2452 | 52Tone | RU8 | -20.89 | ≤8.00 | PASS |
| | Ant2 | 2452 | 52Tone | RU8 | -21.79 | ≤8.00 | PASS |
| | Ant3 | 2452 | 52Tone | RU8 | -20.83 | ≤8.00 | PASS |
| | Ant4 | 2452 | 52Tone | RU8 | -21.12 | ≤8.00 | PASS |
| | total | 2452 | 52Tone | RU8 | -15.12 | ≤8.00 | PASS |

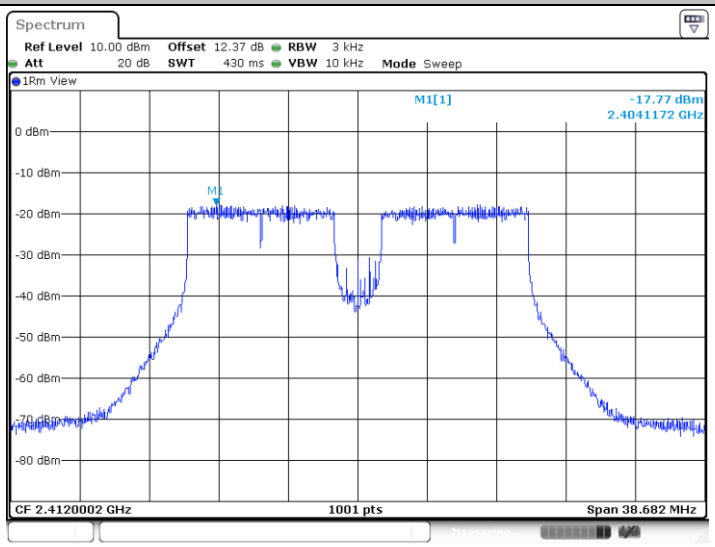
## Test Graphs

11BE20MIMO_Ant1_2412_52Tone_RU4



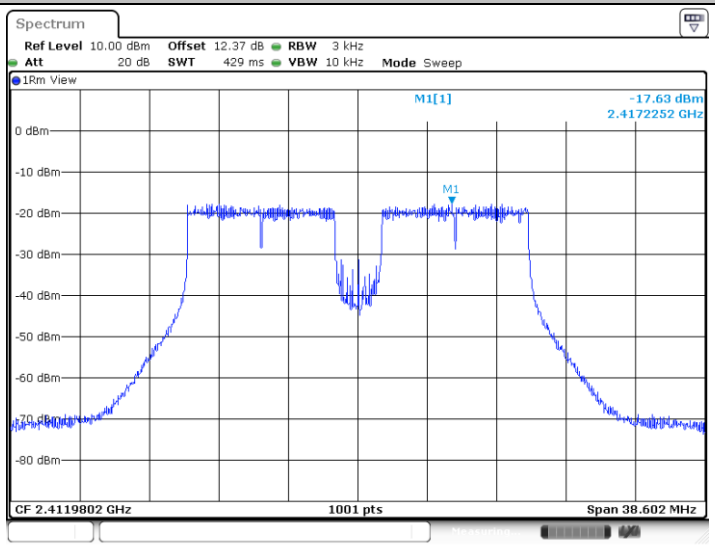

Date: 6.JUN.2024 00:27:56

11BE20MIMO_Ant2_2412_52Tone_RU4



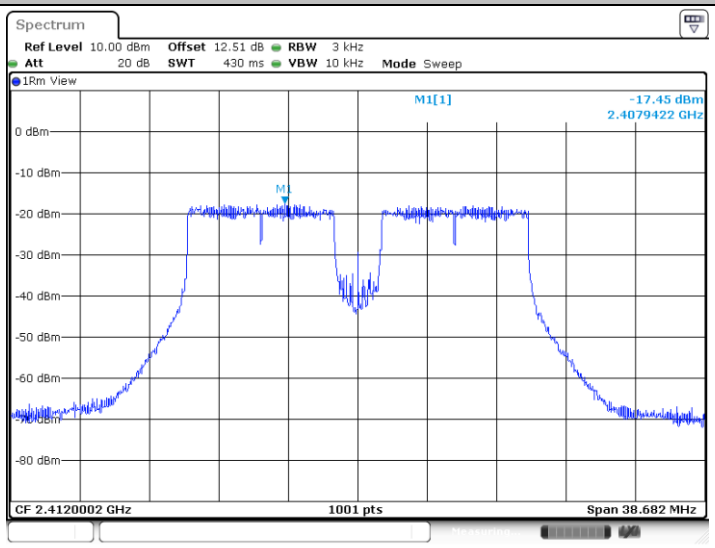

Date: 6.JUN.2024 00:28:17

11BE20MIMO_Ant3_2412_52Tone_RU4



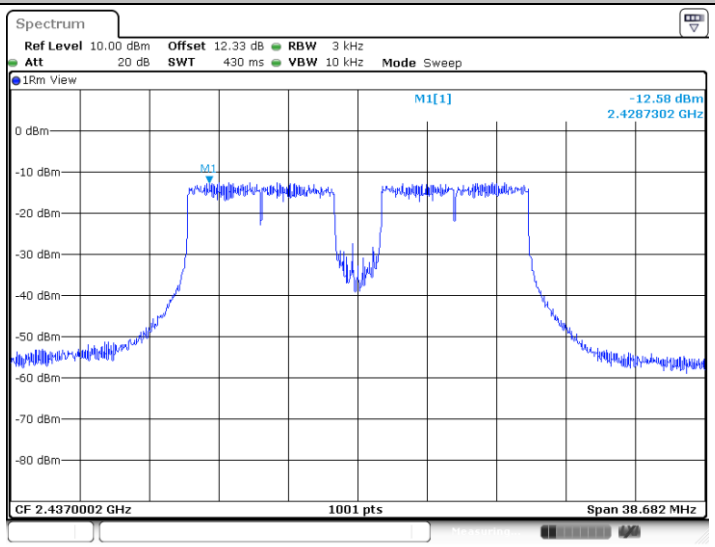

Date: 6.JUN.2024 00:28:40

11BE20MIMO_Ant4_2412_52Tone_RU4



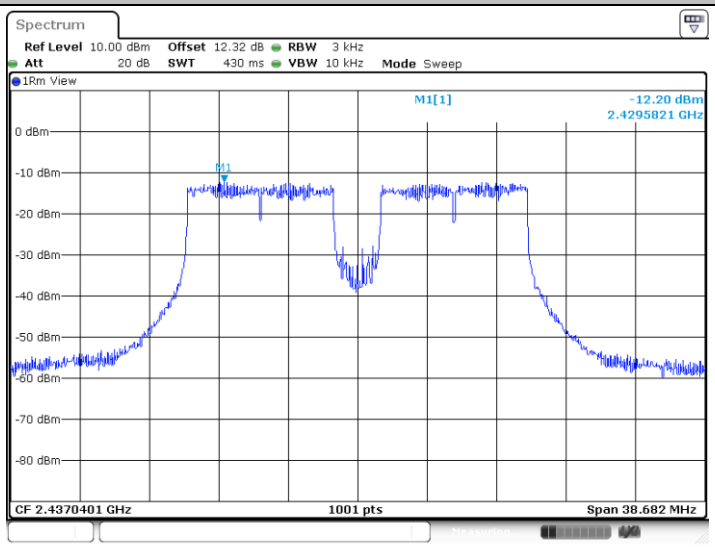

Date: 6.JUN.2024 00:29:03

11BE20MIMO_Ant1_2437_52Tone_RU4



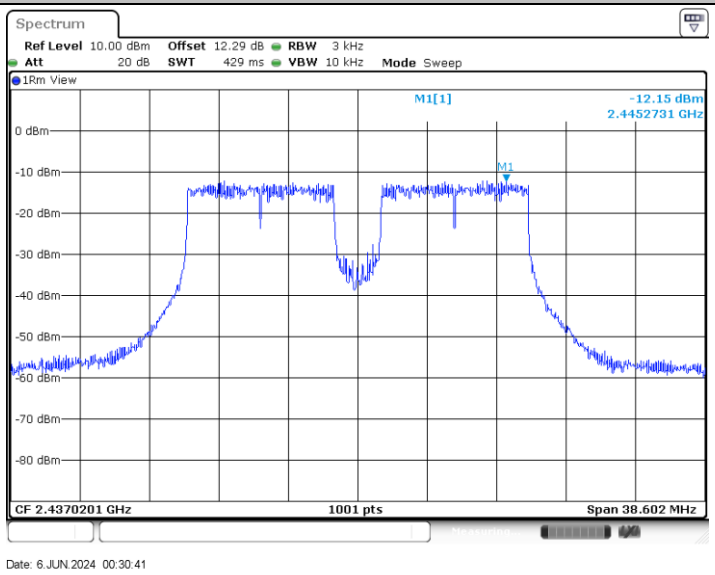

Date: 6.JUN.2024 00:29:57

11BE20MIMO_Ant2_2437_52Tone_RU4



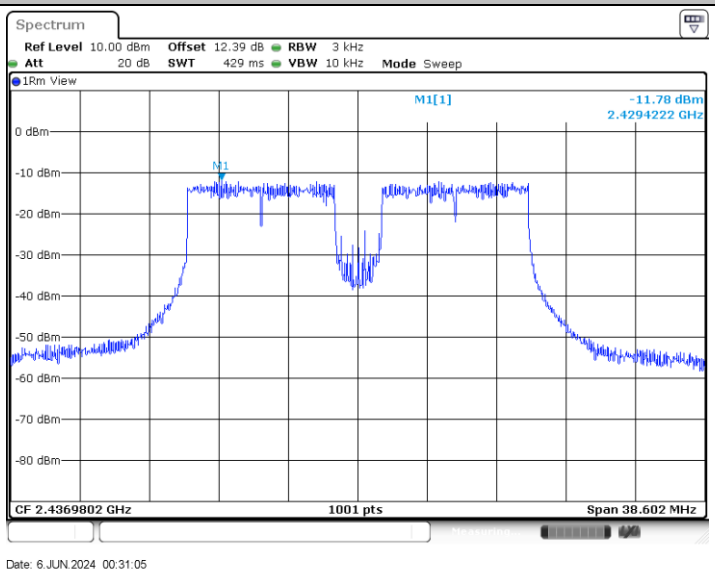

Date: 6.JUN.2024 00:30:19

11BE20MIMO_Ant3_2437_52Tone_RU4



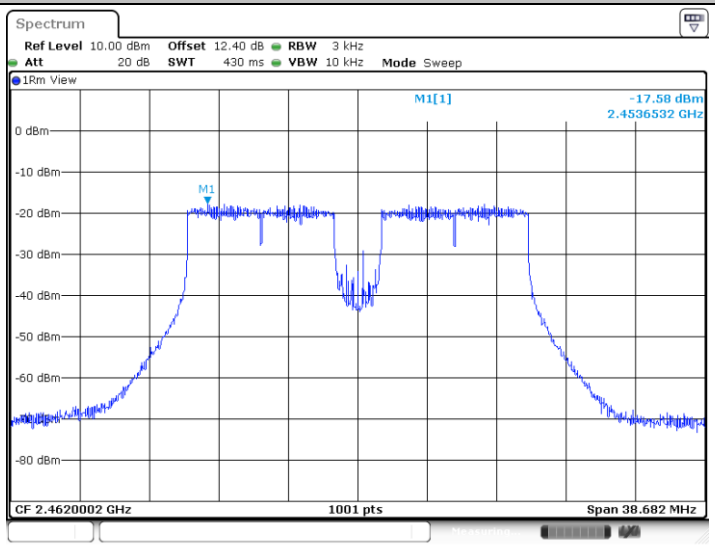

Date: 6.JUN.2024 00:30:41

11BE20MIMO_Ant4_2437_52Tone_RU4



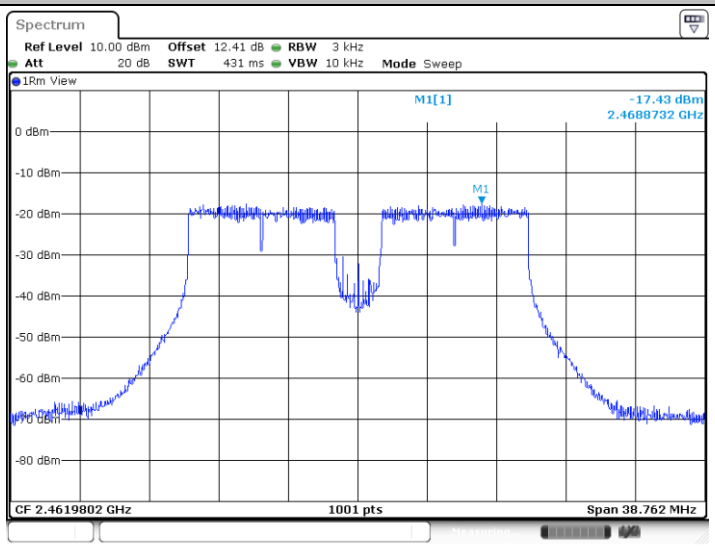

Date: 6.JUN.2024 00:31:05

11BE20MIMO_Ant1_2462_52Tone_RU4



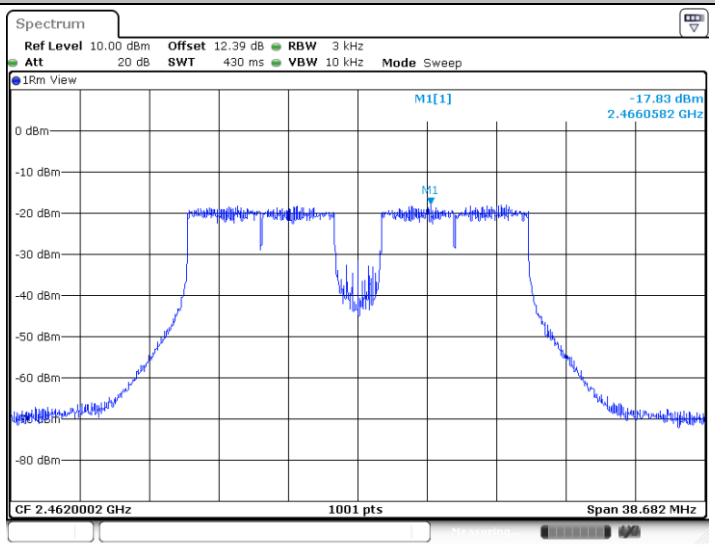

Date: 6.JUN.2024 00:32:24

11BE20MIMO_Ant2_2462_52Tone_RU4



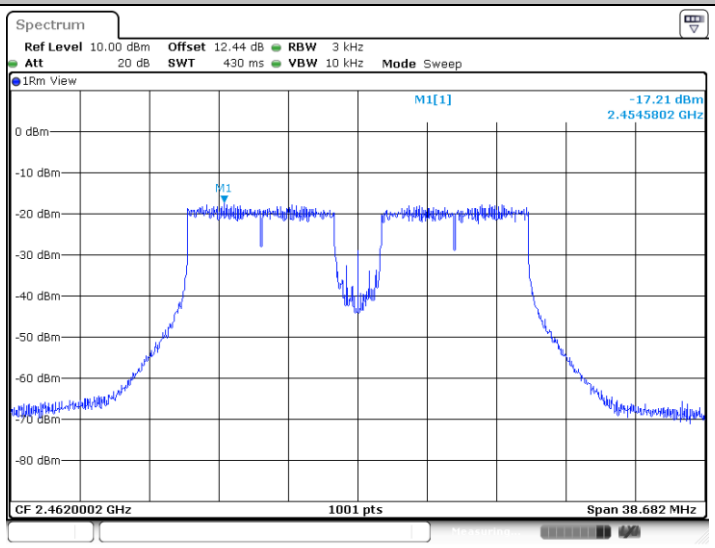

Date: 6.JUN.2024 00:32:46

11BE20MIMO_Ant3_2462_52Tone_RU4



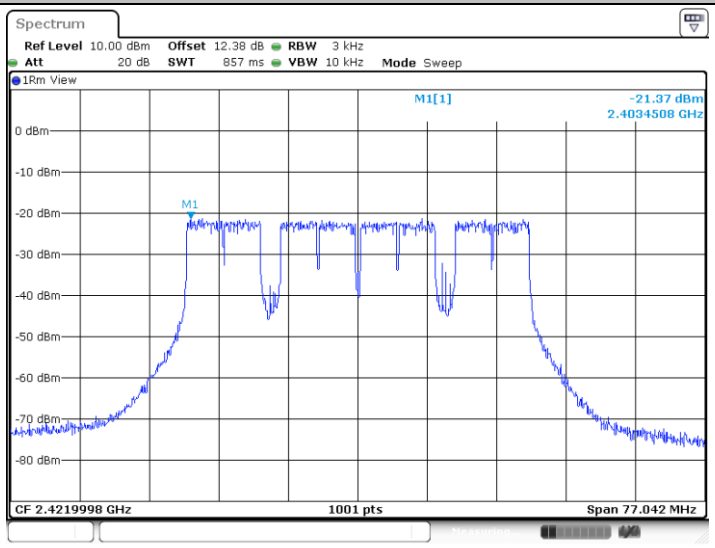

Date: 6.JUN.2024 00:33:09

11BE20MIMO_Ant4_2462_52Tone_RU4



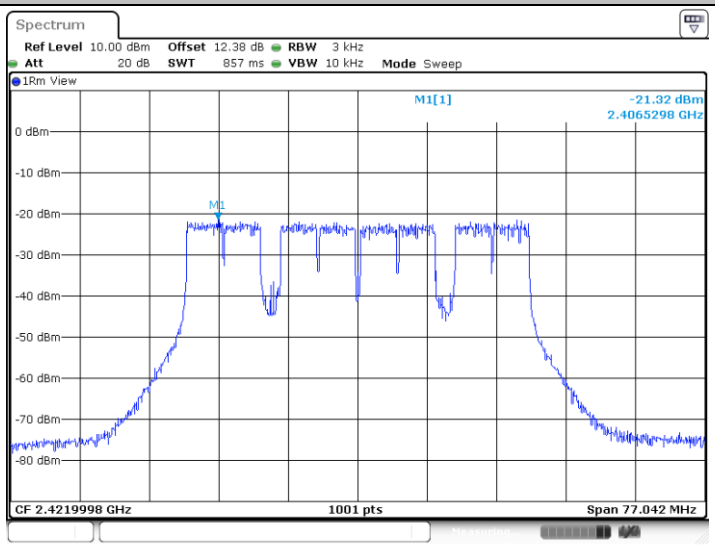

Date: 6.JUN.2024 00:33:31

11BE40MIMO_Ant1_2422_52Tone_RU8




Date: 5.JUN.2024 23:05:13

11BE40MIMO_Ant2_2422_52Tone_RU8




Date: 5.JUN.2024 23:06:28

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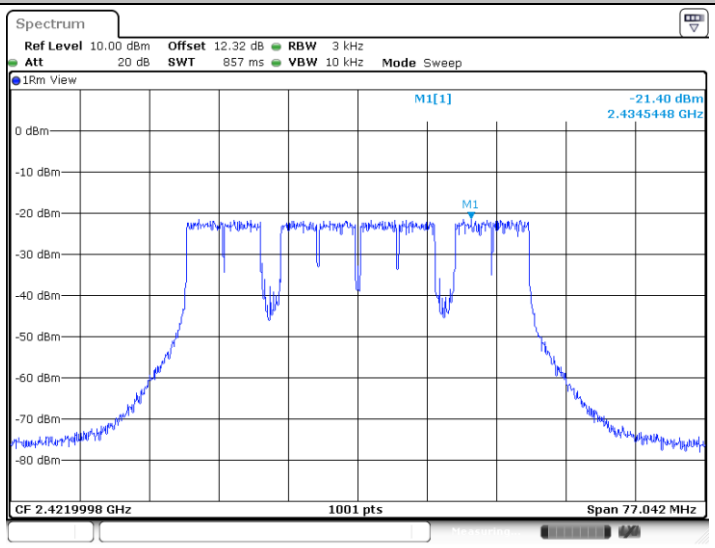
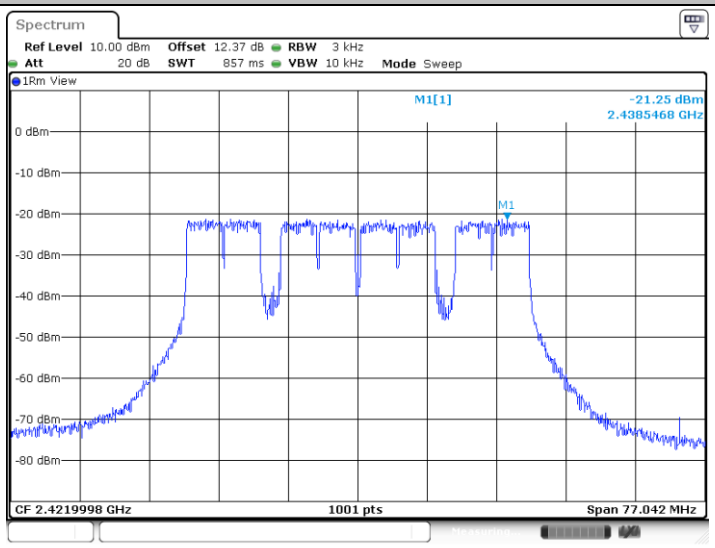


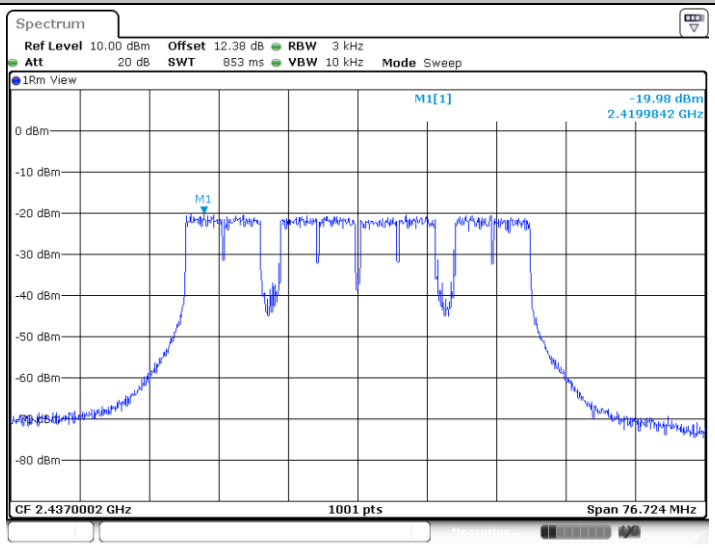

Date: 5.JUN.2024 23:07:44

11BE40MIMO_Ant4_2422_52Tone_RU8



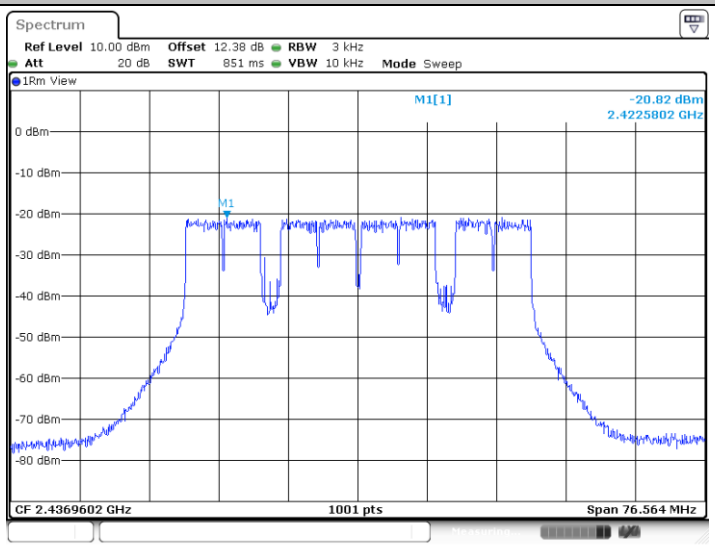

Date: 5.JUN.2024 23:08:59

11BE40MIMO_Ant1_2437_52Tone_RU8



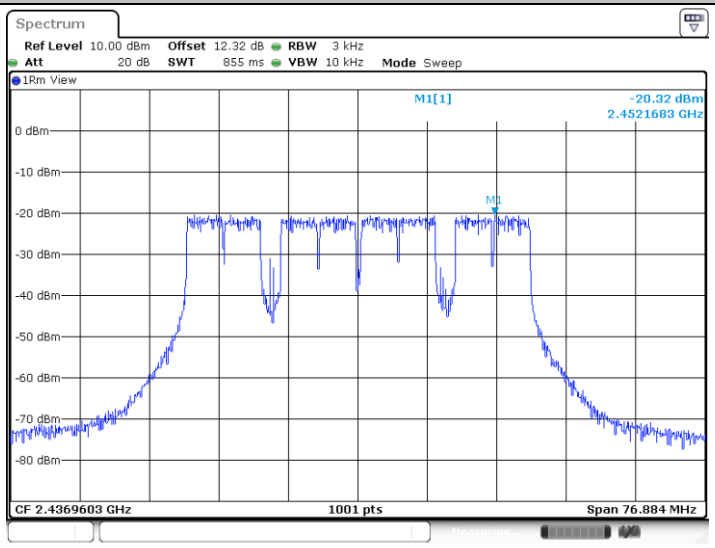

Date: 5.JUN.2024 23:12:05

11BE40MIMO_Ant2_2437_52Tone_RU8



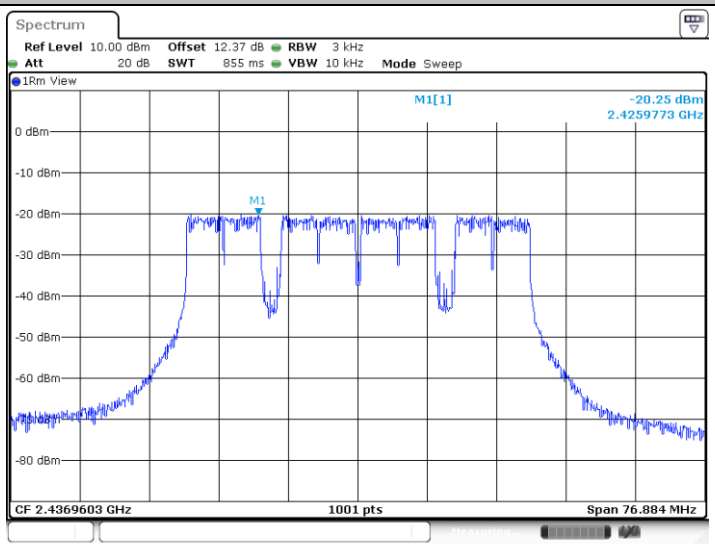

Date: 5.JUN.2024 23:12:36

11BE40MIMO_Ant3_2437_52Tone_RU8



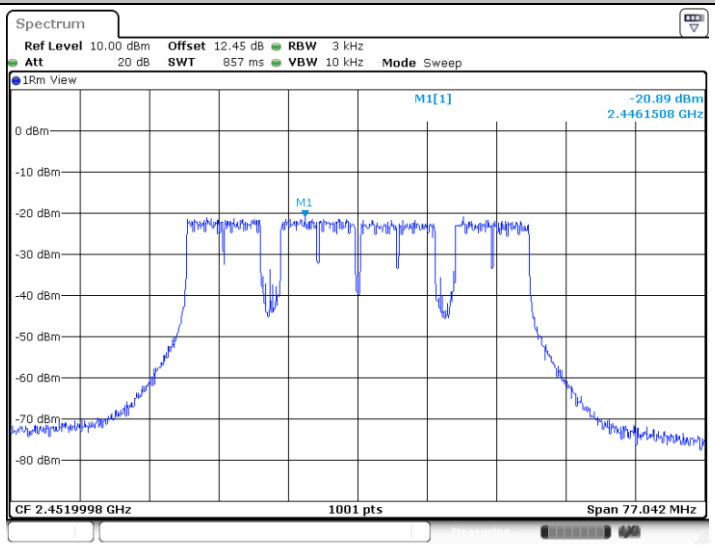

Date: 5.JUN.2024 23:13:08

11BE40MIMO_Ant4_2437_52Tone_RU8



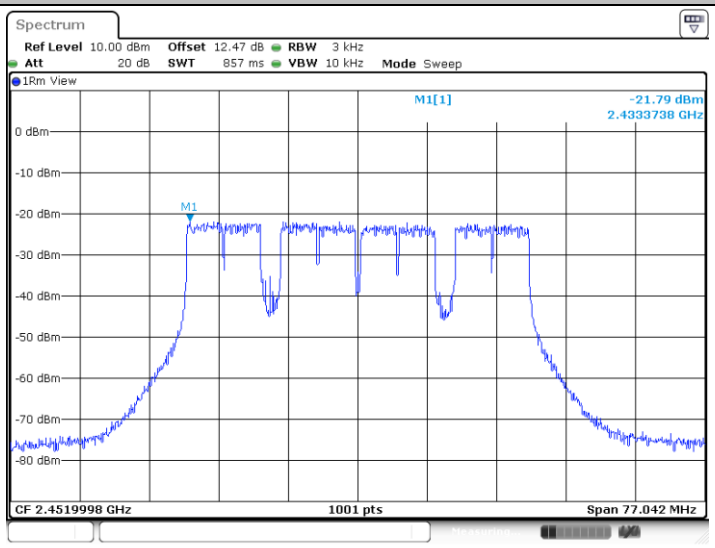

Date: 5.JUN.2024 23:13:40

11BE40MIMO_Ant1_2452_52Tone_RU8



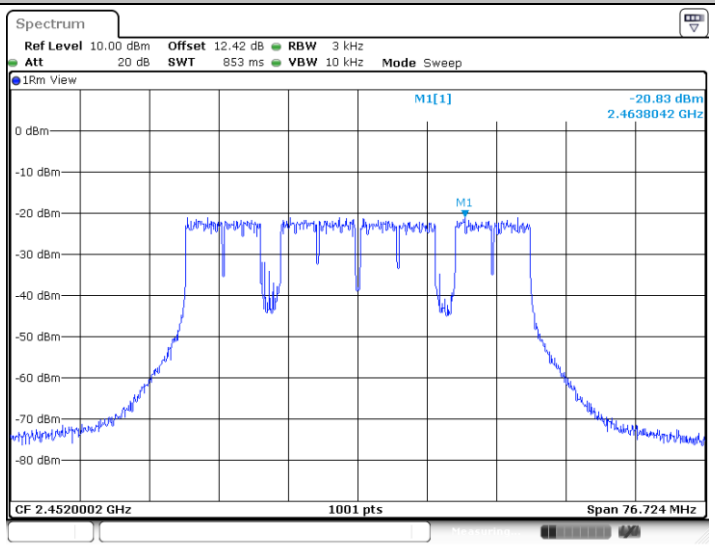

Date: 5.JUN.2024 23:57:36

11BE40MIMO_Ant2_2452_52Tone_RU8



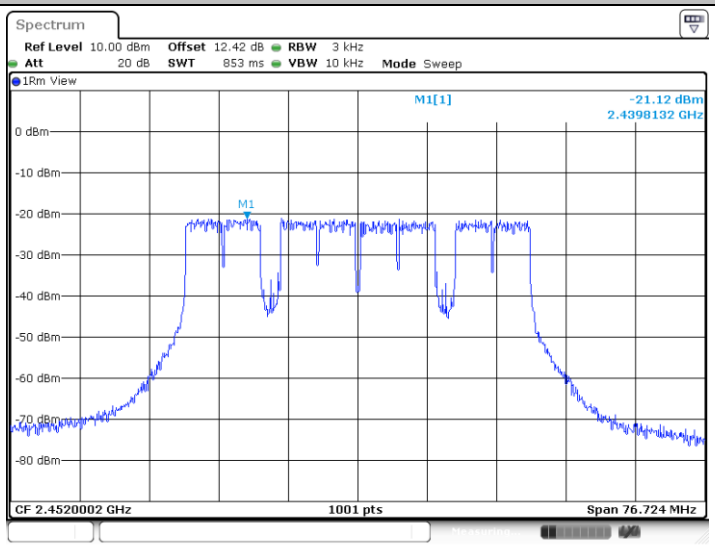

Date: 5.JUN.2024 23:58:51

11BE40MIMO_Ant3_2452_52Tone_RU8




Date: 6.JUN.2024 00:00:06

11BE40MIMO_Ant4_2452_52Tone_RU8




Date: 6.JUN.2024 00:01:20

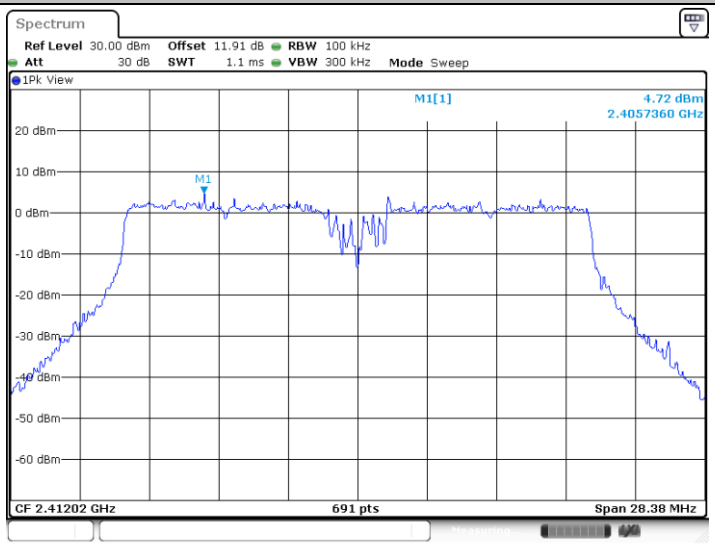
# Reference level measurement

## Test Result

| TestMode | Antenna | Freq(MHz) | Max.Point[MHz] | Result[dBm/100KHZ] |
|---|---|---|---|---|
| 11BE20MIMO | Ant1 | 2412 | 2405.74 | 4.72 |
| | Ant2 | 2412 | 2404.51 | 4.15 |
| | Ant3 | 2412 | 2417.00 | 4.82 |
| | Ant4 | 2412 | 2407.00 | 4.67 |
| | Ant1 | 2462 | 2457.00 | 5.79 |
| | Ant2 | 2462 | 2467.01 | 6.05 |
| | Ant3 | 2462 | 2469.50 | 5.93 |
| | Ant4 | 2462 | 2455.77 | 5.85 |
| 11BE40MIMO | Ant1 | 2422 | 2405.79 | 2.90 |
| | Ant2 | 2422 | 2405.79 | 2.27 |
| | Ant3 | 2422 | 2437.05 | 2.64 |
| | Ant4 | 2422 | 2405.79 | 2.81 |
| | Ant1 | 2452 | 2449.48 | 2.69 |
| | Ant2 | 2452 | 2435.80 | 2.04 |
| | Ant3 | 2452 | 2449.48 | 2.66 |
| | Ant4 | 2452 | 2447.01 | 3.25 |

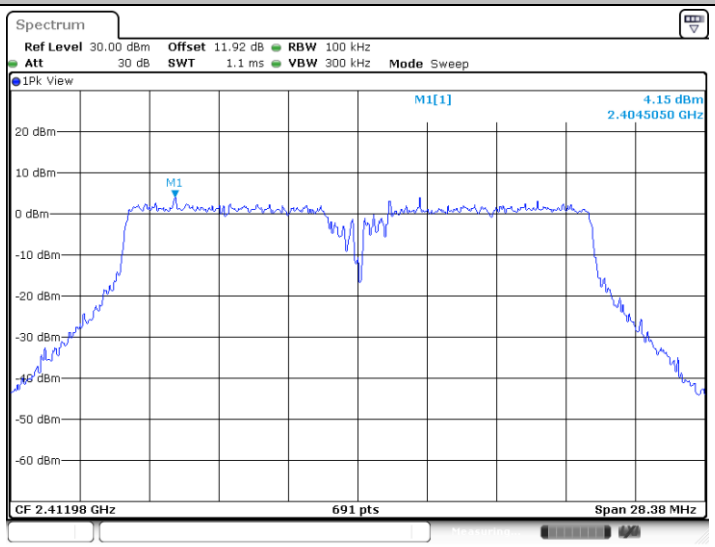
## Test Graphs

11BE20MIMO_Ant1_2412_52Tone_RU4



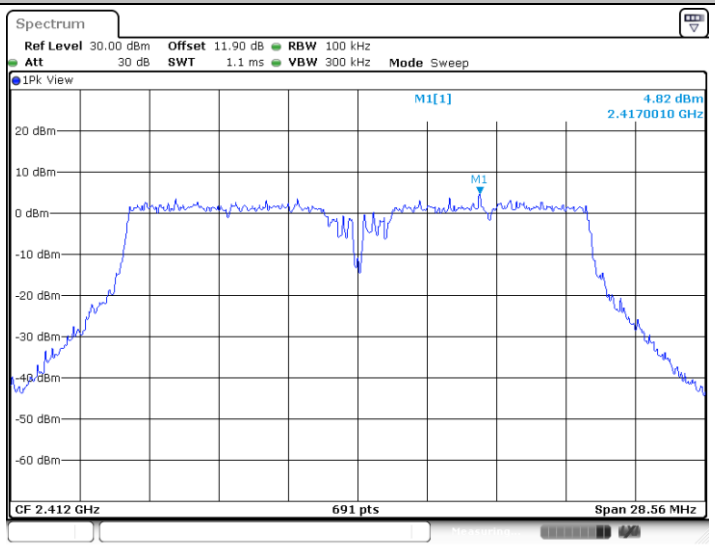

Date: 5.JUN.2024 09:29:18

11BE20MIMO_Ant2_2412_52Tone_RU4



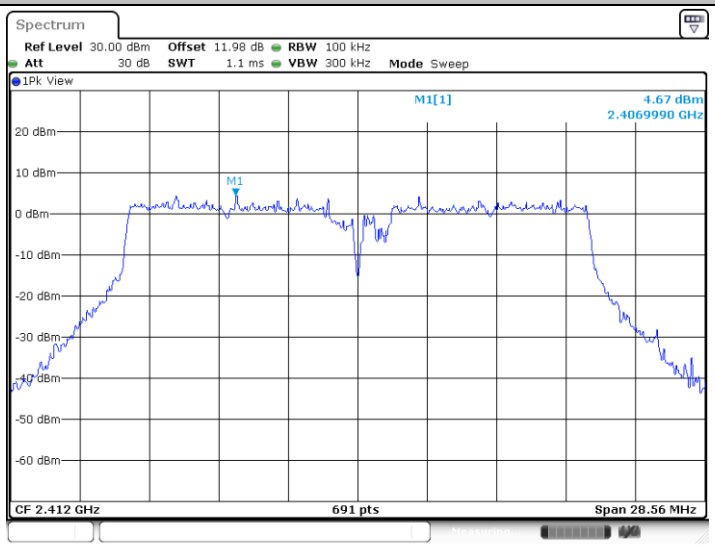

Date: 5.JUN.2024 09:30:26

11BE20MIMO_Ant3_2412_52Tone_RU4



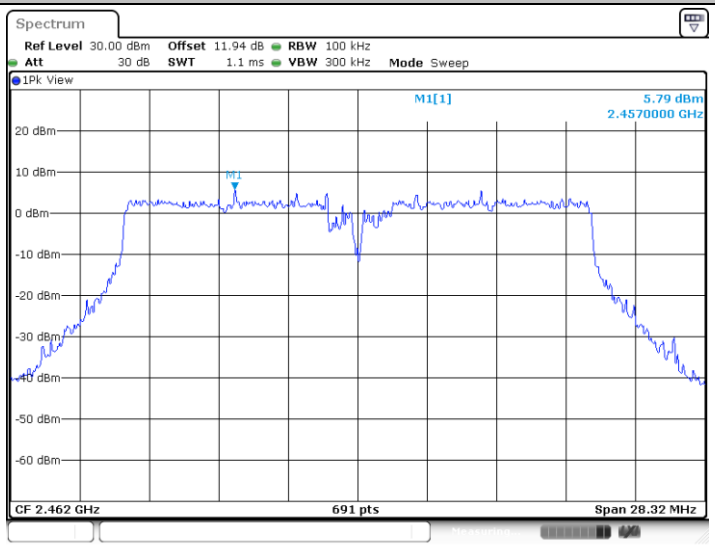

Date: 5.JUN.2024 09:31:37

11BE20MIMO_Ant4_2412_52Tone_RU4



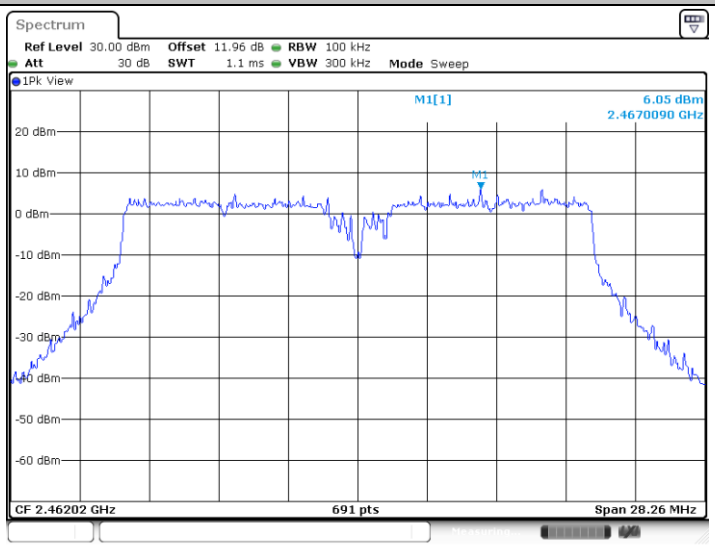

Date: 5.JUN.2024 09:32:52

11BE20MIMO_Ant1_2462_52Tone_RU4



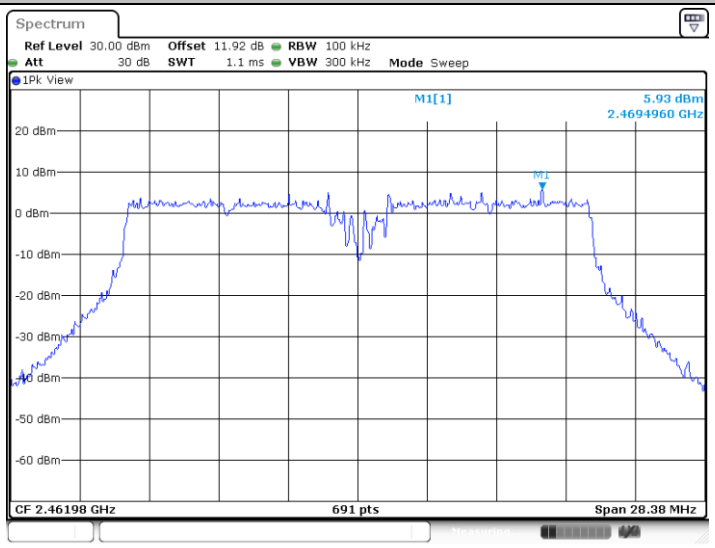

Date: 5.JUN.2024 10:17:00

11BE20MIMO_Ant2_2462_52Tone_RU4



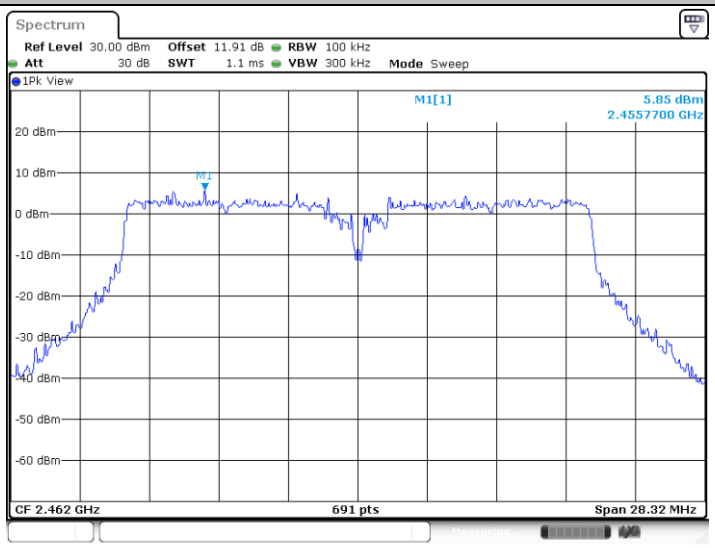

Date: 5.JUN.2024 10:18:15

11BE20MIMO_Ant3_2462_52Tone_RU4



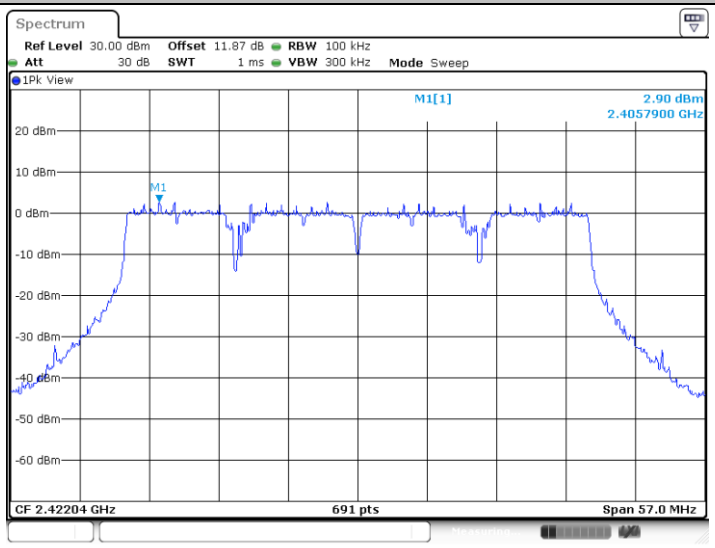

Date: 5.JUN.2024 10:19:31

11BE20MIMO_Ant4_2462_52Tone_RU4



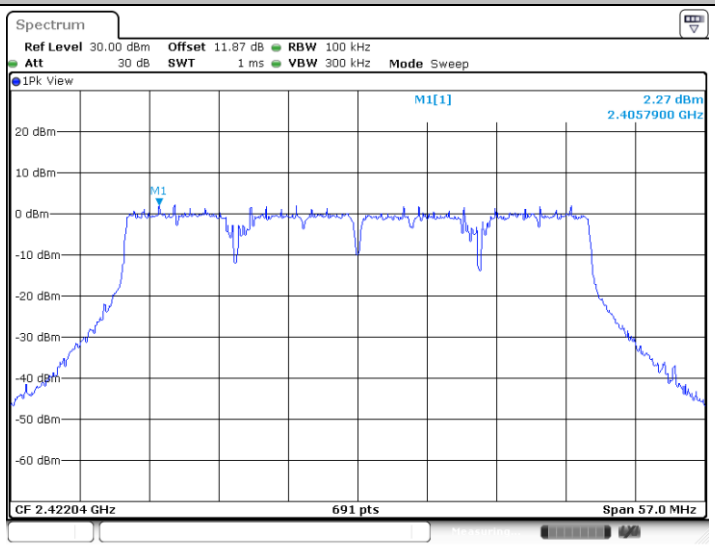

Date: 5.JUN.2024 10:20:47

11BE40MIMO_Ant1_2422_52Tone_RU8



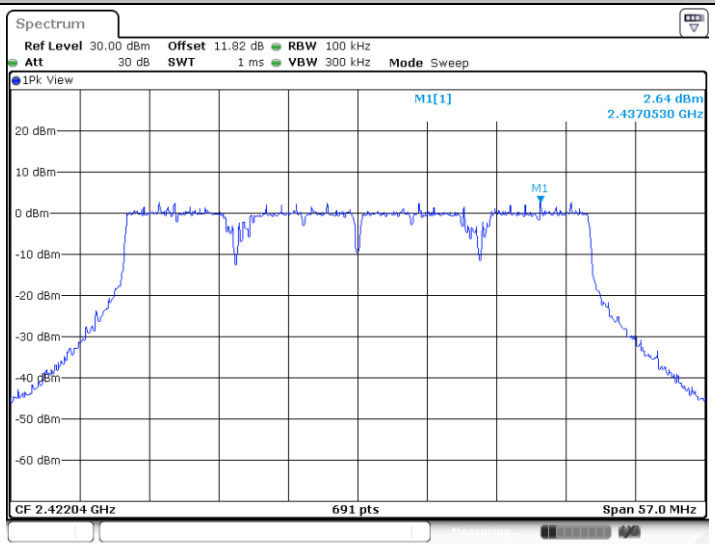

Date: 5.JUN.2024 23:05:20

11BE40MIMO_Ant2_2422_52Tone_RU8



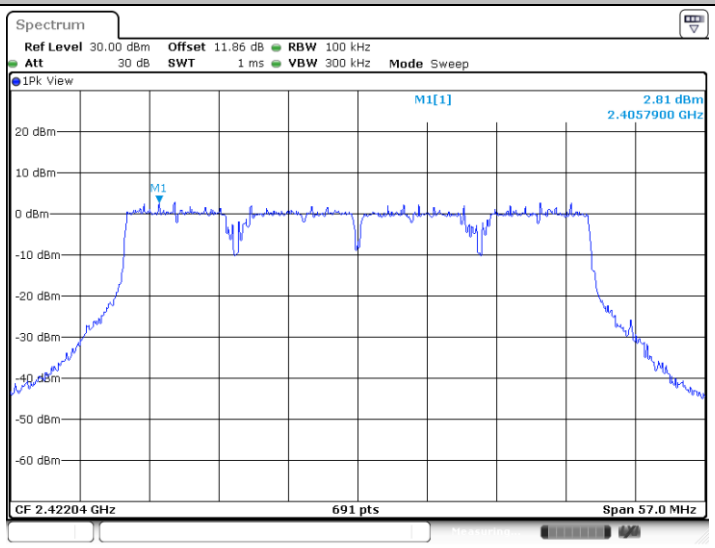

Date: 5.JUN.2024 23:06:36

11BE40MIMO_Ant3_2422_52Tone_RU8



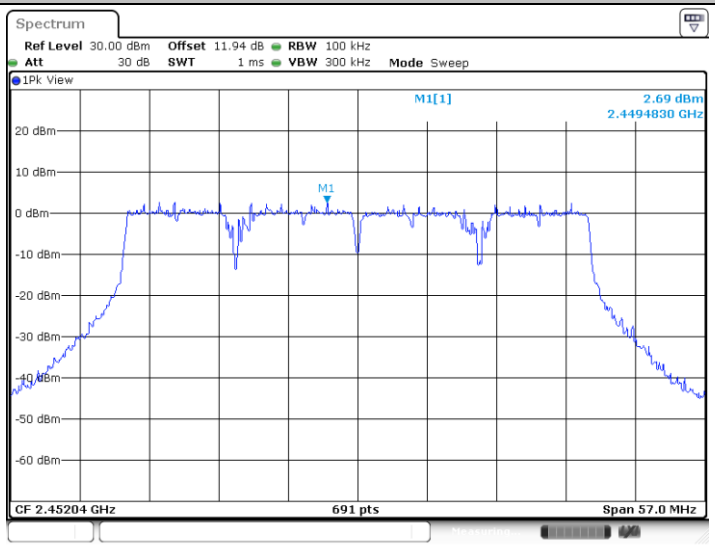

Date: 5.JUN.2024 23:07:52

11BE40MIMO_Ant4_2422_52Tone_RU8



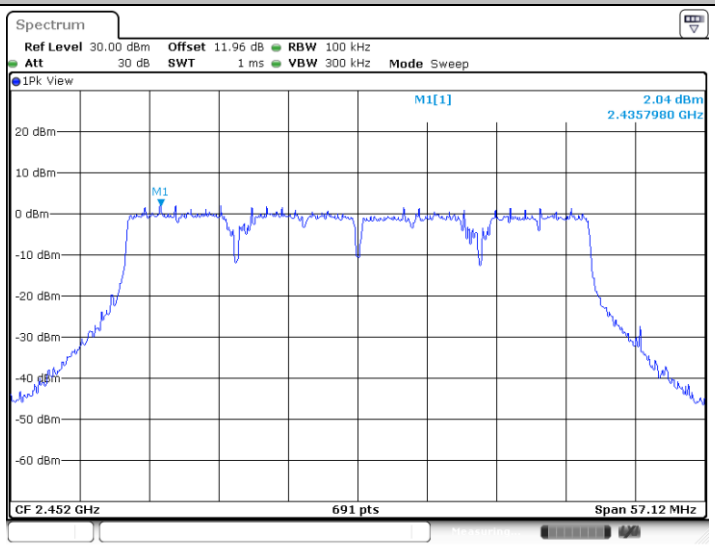

Date: 5.JUN.2024 23:09:08

11BE40MIMO_Ant1_2452_52Tone_RU8



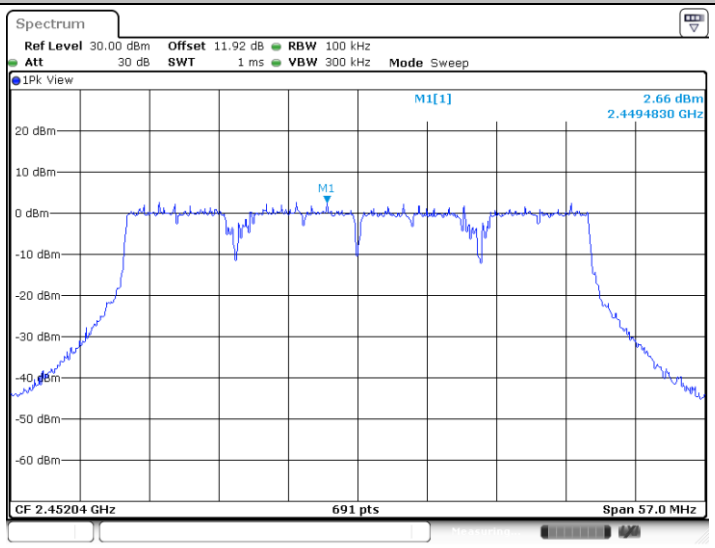

Date: 5.JUN.2024 23:57:43

11BE40MIMO_Ant2_2452_52Tone_RU8



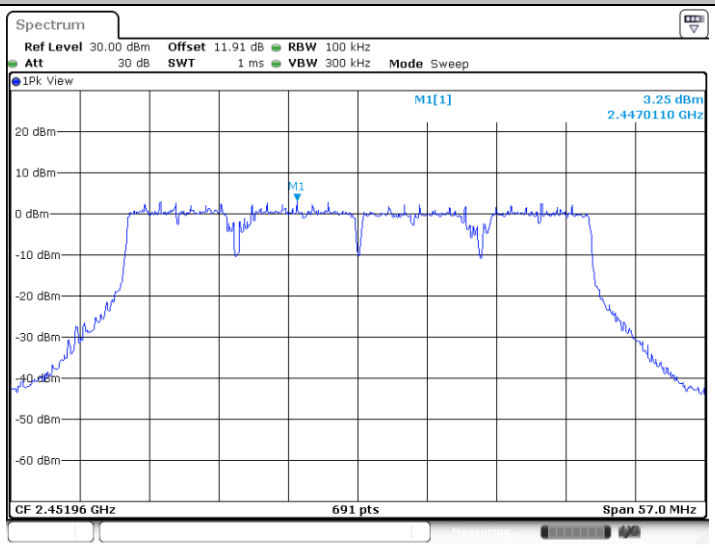

Date: 5.JUN.2024 23:58:59

11BE40MIMO_Ant3_2452_52Tone_RU8




Date: 6.JUN.2024 00:00:14

11BE40MIMO_Ant4_2452_52Tone_RU8




Date: 6.JUN.2024 00:01:28

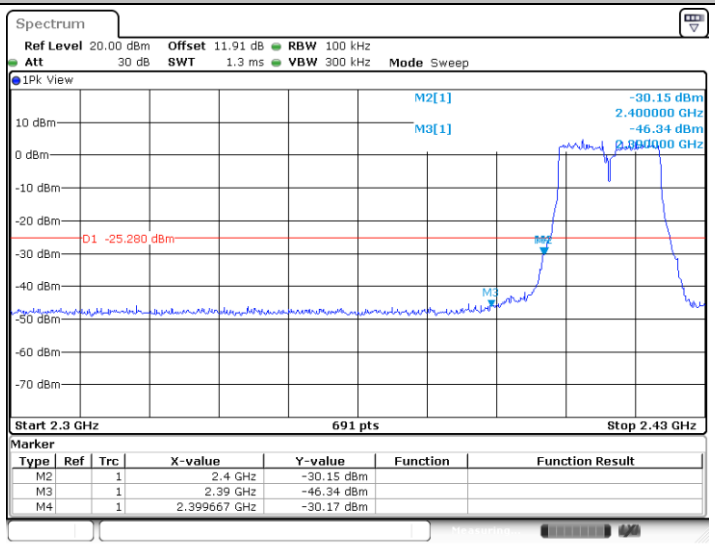
# Band edge measurements

## Test Result

| TestMode | Antenna | ChName | Freq (MHz) | Ru Size | Ru Index | RefLevel [dBm/100KHZ] | Result [dBm/100KHZ] | Limit [dBm/100KHZ] | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| 11BE20MIMO | Ant1 | Low | 2412 | 52Tone | RU4 | 4.72 | -30.17 | ≤-25.28 | PASS |
| | Ant2 | Low | 2412 | 52Tone | RU4 | 4.15 | -29.79 | ≤-25.85 | PASS |
| | Ant3 | Low | 2412 | 52Tone | RU4 | 4.82 | -30.74 | ≤-25.18 | PASS |
| | Ant4 | Low | 2412 | 52Tone | RU4 | 4.67 | -29.47 | ≤-25.33 | PASS |
| | Ant1 | High | 2462 | 52Tone | RU4 | 5.79 | -41.49 | ≤-24.21 | PASS |
| | Ant2 | High | 2462 | 52Tone | RU4 | 6.05 | -42.68 | ≤-23.95 | PASS |
| | Ant3 | High | 2462 | 52Tone | RU4 | 5.93 | -42.77 | ≤-24.07 | PASS |
| | Ant4 | High | 2462 | 52Tone | RU4 | 5.85 | -40.86 | ≤-24.15 | PASS |
| 11BE40MIMO | Ant1 | Low | 2422 | 52Tone | RU8 | 2.90 | -28.02 | ≤-27.1 | PASS |
| | Ant2 | Low | 2422 | 52Tone | RU8 | 2.27 | -30.12 | ≤-27.73 | PASS |
| | Ant3 | Low | 2422 | 52Tone | RU8 | 2.64 | -28.3 | ≤-27.36 | PASS |
| | Ant4 | Low | 2422 | 52Tone | RU8 | 2.81 | -28.55 | ≤-27.19 | PASS |
| | Ant1 | High | 2452 | 52Tone | RU8 | 2.69 | -42.28 | ≤-27.31 | PASS |
| | Ant2 | High | 2452 | 52Tone | RU8 | 2.04 | -43.97 | ≤-27.96 | PASS |
| | Ant3 | High | 2452 | 52Tone | RU8 | 2.66 | -43.77 | ≤-27.34 | PASS |
| | Ant4 | High | 2452 | 52Tone | RU8 | 3.25 | -43.46 | ≤-26.75 | PASS |

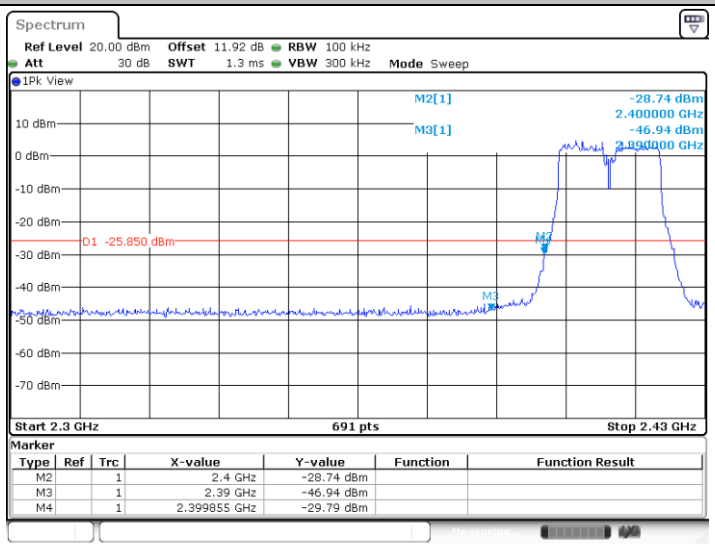
## Test Graphs

11BE20MIMO_Ant1_Low_2412_52Tone_RU4



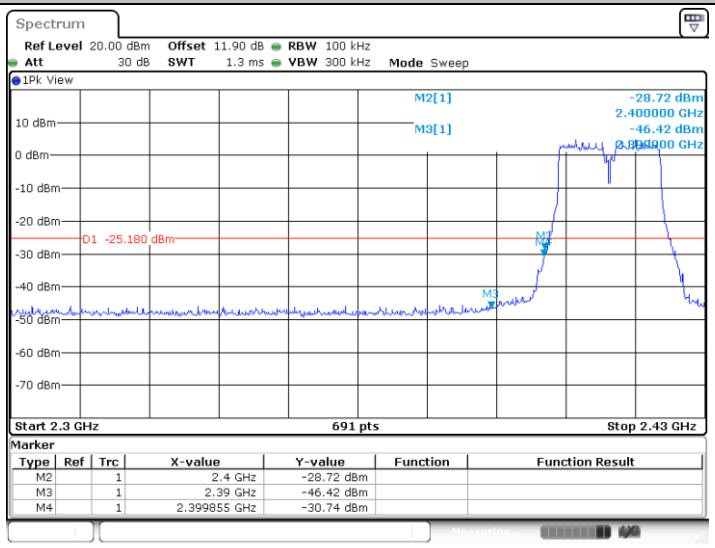

Date: 5.JUN.2024 09:29:32

11BE20MIMO_Ant2_Low_2412_52Tone_RU4



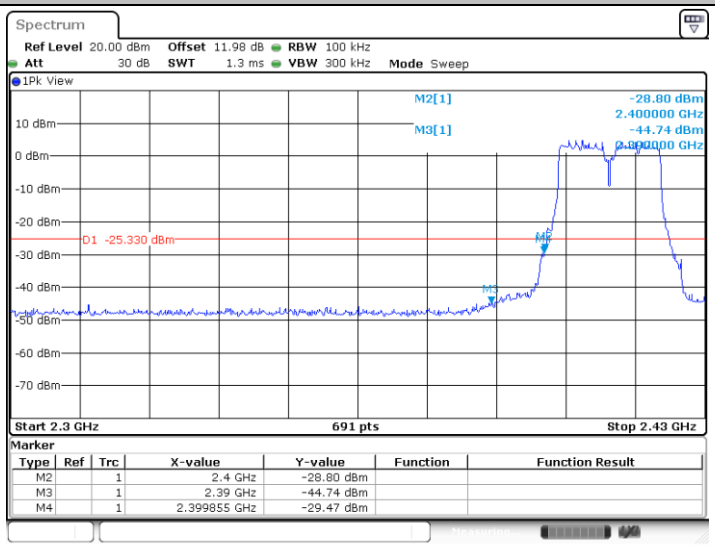

Date: 5.JUN.2024 09:30:40

11BE20MIMO_Ant3_Low_2412_52Tone_RU4



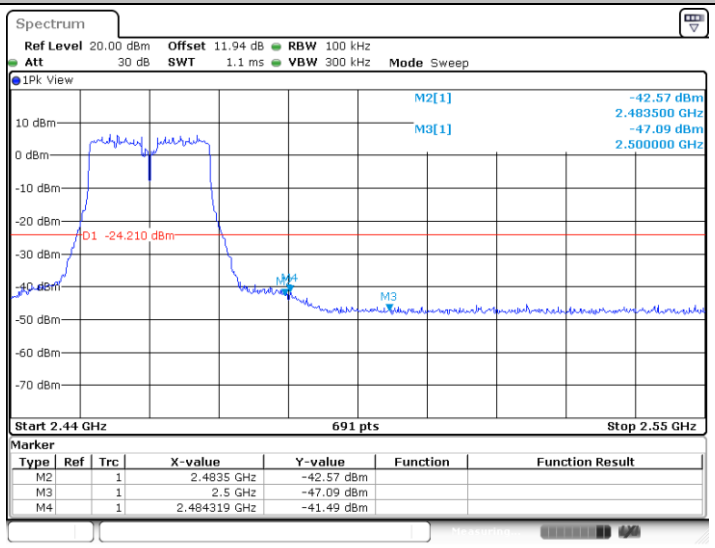

Date: 5.JUN.2024 09:31:51

11BE20MIMO_Ant4_Low_2412_52Tone_RU4



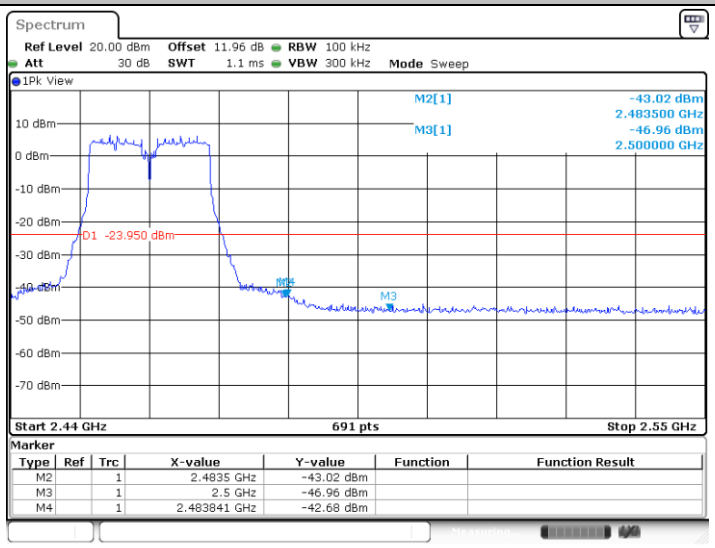

Date: 5.JUN.2024 09:33:07

11BE20MIMO_Ant1_High_2462_52Tone_RU4



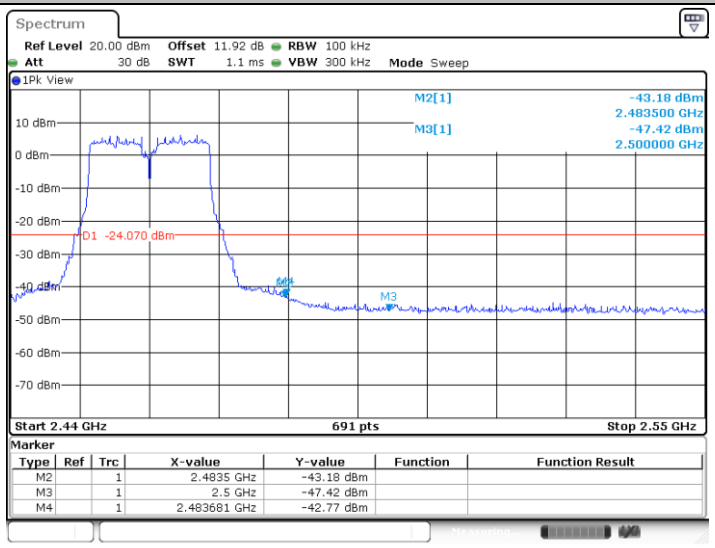

Date: 5.JUN.2024 10:17:14

11BE20MIMO_Ant2_High_2462_52Tone_RU4



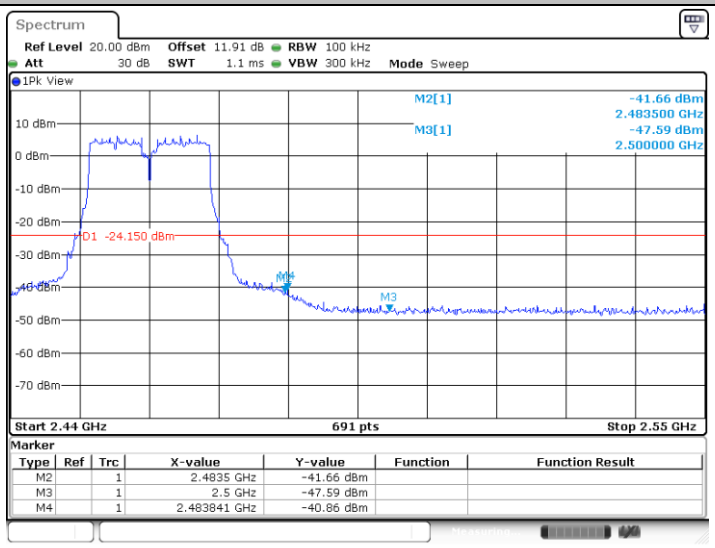

Date: 5.JUN.2024 10:18:29

11BE20MIMO_Ant3_High_2462_52Tone_RU4



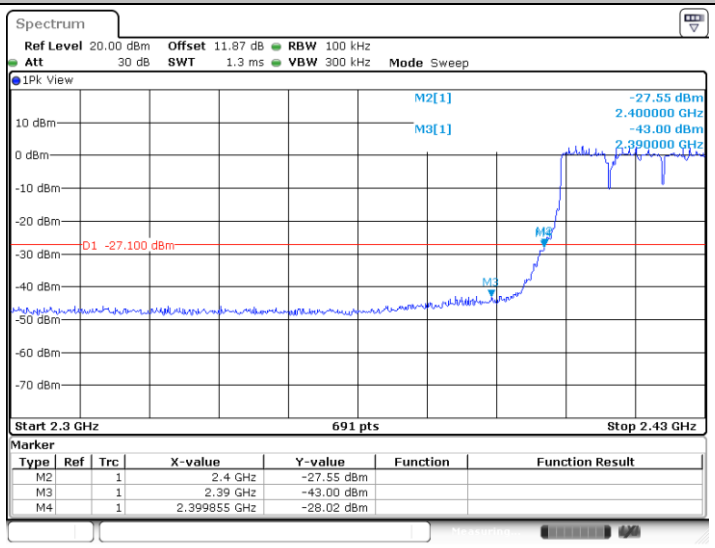

Date: 5.JUN.2024 10:19:45

11BE20MIMO_Ant4_High_2462_52Tone_RU4



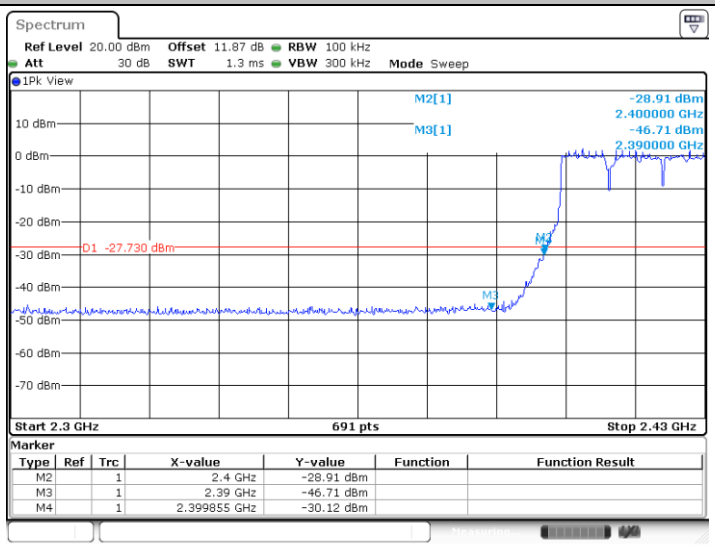

Date: 5.JUN.2024 10:21:01

11BE40MIMO_Ant1_Low_2422_52Tone_RU8



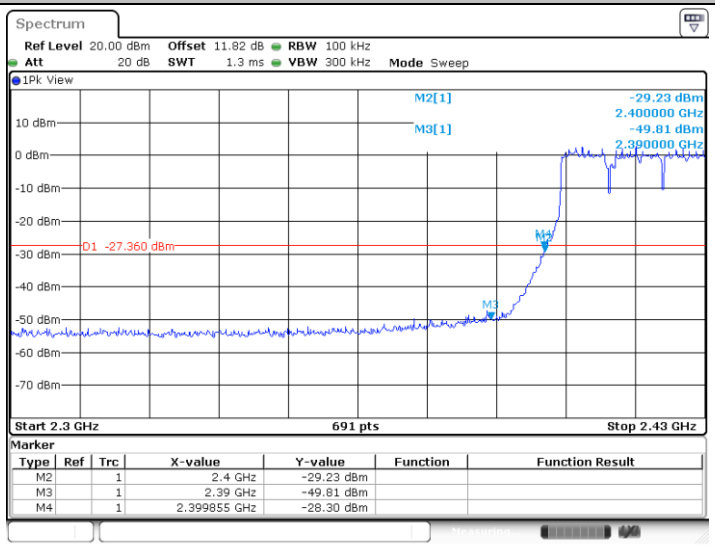

Date: 5.JUN.2024 23:05:35

11BE40MIMO_Ant2_Low_2422_52Tone_RU8

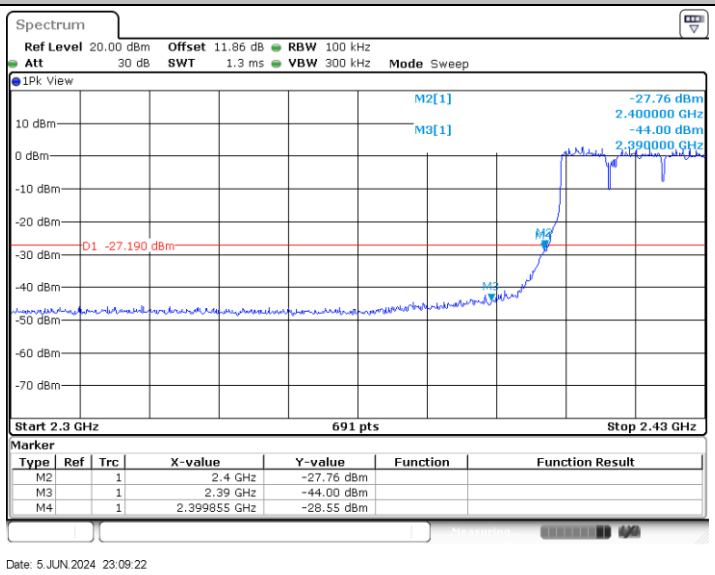



Date: 5.JUN.2024 23:06:50

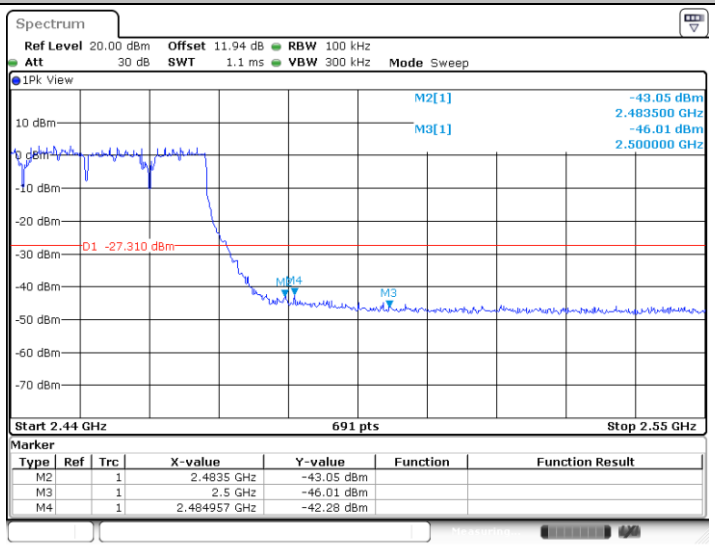
11BE40MIMO_Ant3_Low_2422_52Tone_RU8




11BE40MIMO_Ant4_Low_2422_52Tone_RU8

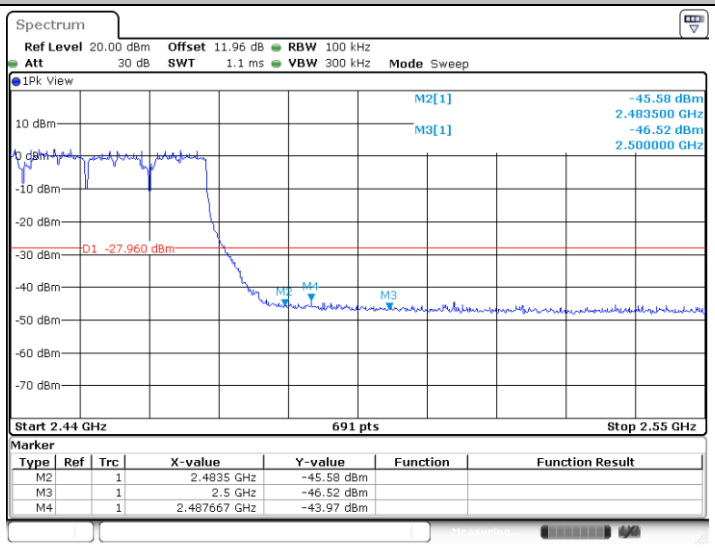


11BE40MIMO_Ant1_High_2452_52Tone_RU8



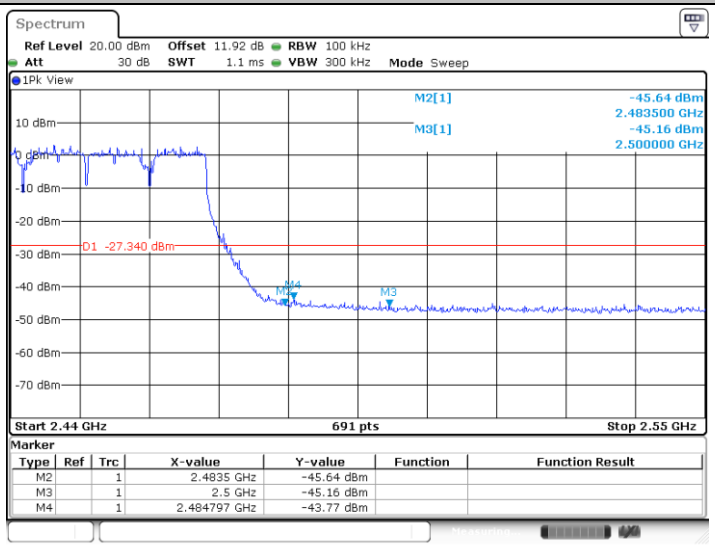

Date: 5.JUN.2024 23:57:57

11BE40MIMO_Ant2_High_2452_52Tone_RU8



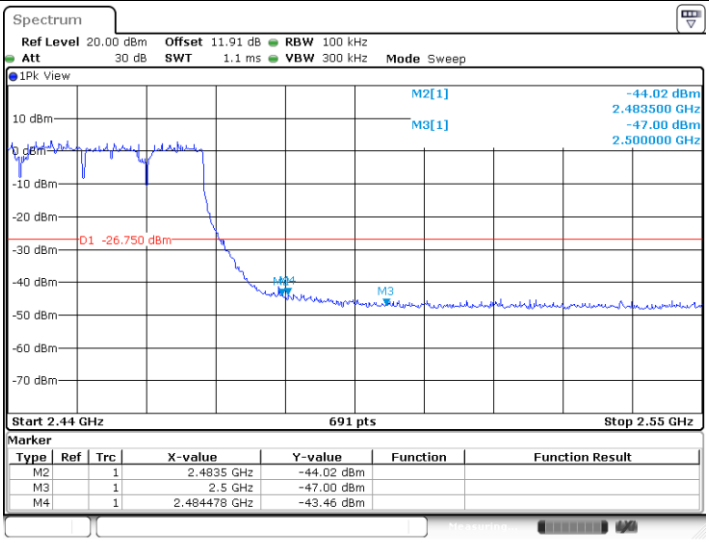

Date: 5.JUN.2024 23:59:13

11BE40MIMO_Ant3_High_2452_52Tone_RU8




Date: 6.JUN.2024 00:00:28

11BE40MIMO_Ant4_High_2452_52Tone_RU8




Date: 6.JUN.2024 00:01:43

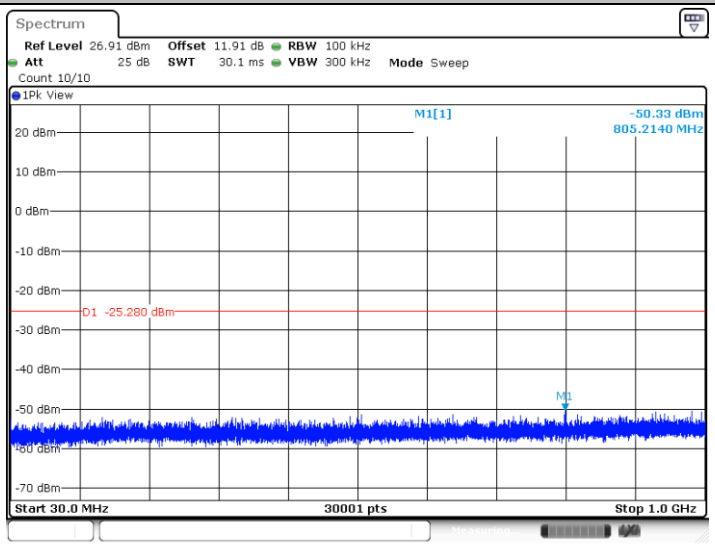
# Conducted Spurious Emission

## Test Result

| TestMode | Antenna | Freq (MHz) | Ru Size | Ru Index | FreqRange [Mhz] | RefLevel [dBm /100KHZ] | Result [dBm /100KHZ] | Limit [dBm /100KHZ] | Verdict |
|---|---|---|---|---|---|---|---|---|---|
| 11BE20 MIMO | Ant1 | 2412 | 52Tone | RU4 | 30~1000 | 4.72 | -50.33 | ≤-25.28 | PASS |
| | | | | RU4 | 1000~26500 | 4.72 | -43.60 | ≤-25.28 | PASS |
| | Ant2 | 2412 | 52Tone | RU4 | 30~1000 | 4.15 | -51.12 | ≤-25.85 | PASS |
| | | | | RU4 | 1000~26500 | 4.15 | -44.70 | ≤-25.85 | PASS |
| | Ant3 | 2412 | 52Tone | RU4 | 30~1000 | 4.82 | -50.73 | ≤-25.18 | PASS |
| | | | | RU4 | 1000~26500 | 4.82 | -43.87 | ≤-25.18 | PASS |
| | Ant4 | 2412 | 52Tone | RU4 | 30~1000 | 4.67 | -50.37 | ≤-25.33 | PASS |
| | | | | RU4 | 1000~26500 | 4.67 | -45.27 | ≤-25.33 | PASS |
| | Ant1 | 2462 | 52Tone | RU4 | 30~1000 | 5.79 | -51.02 | ≤-24.21 | PASS |
| | | | | RU4 | 1000~26500 | 5.79 | -44.90 | ≤-24.21 | PASS |
| | Ant2 | 2462 | 52Tone | RU4 | 30~1000 | 6.05 | -50.36 | ≤-23.95 | PASS |
| | | | | RU4 | 1000~26500 | 6.05 | -44.53 | ≤-23.95 | PASS |
| | Ant3 | 2462 | 52Tone | RU4 | 30~1000 | 5.93 | -50.84 | ≤-24.07 | PASS |
| | | | | RU4 | 1000~26500 | 5.93 | -45.19 | ≤-24.07 | PASS |
| | Ant4 | 2462 | 52Tone | RU4 | 30~1000 | 5.85 | -51.08 | ≤-24.15 | PASS |
| | | | | RU4 | 1000~26500 | 5.85 | -45.39 | ≤-24.15 | PASS |
| 11BE40 MIMO | Ant1 | 2422 | 52Tone | RU8 | 30~1000 | 2.90 | -50.75 | ≤-27.1 | PASS |
| | | | | RU8 | 1000~26500 | 2.90 | -46.11 | ≤-27.1 | PASS |
| | Ant2 | 2422 | 52Tone | RU8 | 30~1000 | 2.27 | -50.42 | ≤-27.73 | PASS |
| | | | | RU8 | 1000~26500 | 2.27 | -45.02 | ≤-27.73 | PASS |
| | Ant3 | 2422 | 52Tone | RU8 | 30~1000 | 2.64 | -50.72 | ≤-27.36 | PASS |
| | | | | RU8 | 1000~26500 | 2.64 | -45.33 | ≤-27.36 | PASS |
| | Ant4 | 2422 | 52Tone | RU8 | 30~1000 | 2.81 | -50.70 | ≤-27.19 | PASS |
| | | | | RU8 | 1000~26500 | 2.81 | -44.76 | ≤-27.19 | PASS |
| | Ant1 | 2452 | 52Tone | RU8 | 30~1000 | 2.69 | -50.67 | ≤-27.31 | PASS |
| | | | | RU8 | 1000~26500 | 2.69 | -45.30 | ≤-27.31 | PASS |
| | Ant2 | 2452 | 52Tone | RU8 | 30~1000 | 2.04 | -51.10 | ≤-27.96 | PASS |
| | | | | RU8 | 1000~26500 | 2.04 | -45.05 | ≤-27.96 | PASS |
| | Ant3 | 2452 | 52Tone | RU8 | 30~1000 | 2.66 | -50.93 | ≤-27.34 | PASS |
| | | | | RU8 | 1000~26500 | 2.66 | -45.45 | ≤-27.34 | PASS |
| | Ant4 | 2452 | 52Tone | RU8 | 30~1000 | 3.25 | -50.46 | ≤-26.75 | PASS |
| | | | | RU8 | 1000~26500 | 3.25 | -45.16 | ≤-26.75 | PASS |

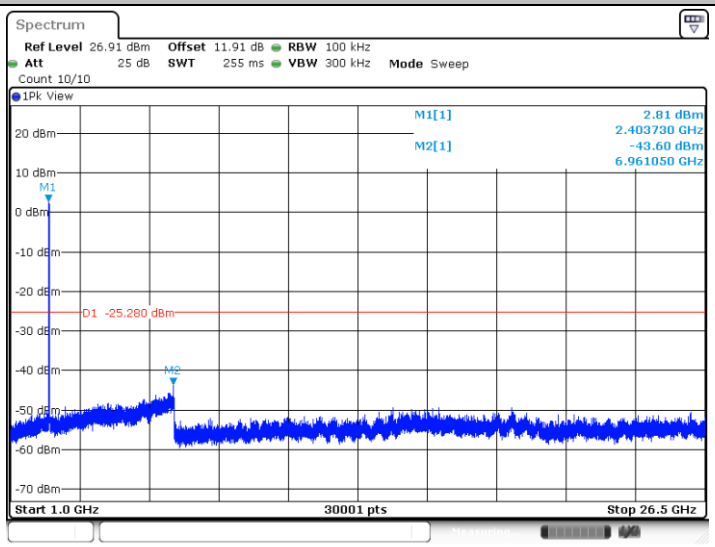
## Test Graphs

11BE20MIMO_Ant1_2412_52Tone_RU4_30~1000



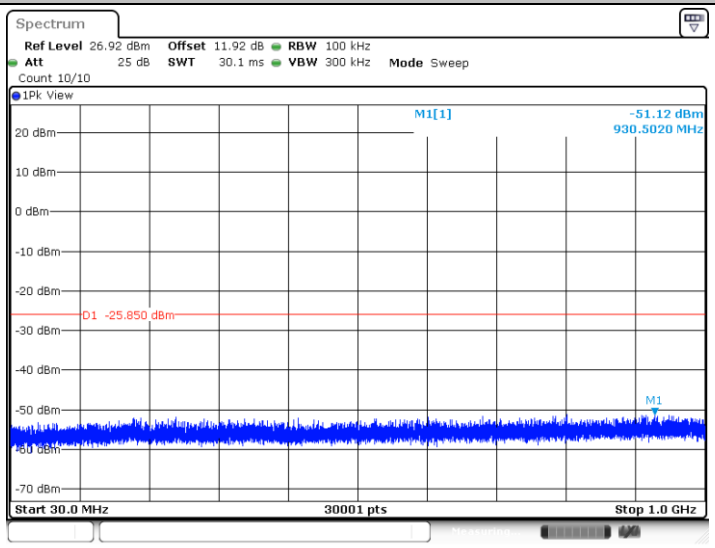

Date: 5.JUN.2024 09:29:39

11BE20MIMO_Ant1_2412_52Tone_RU4_1000~26500



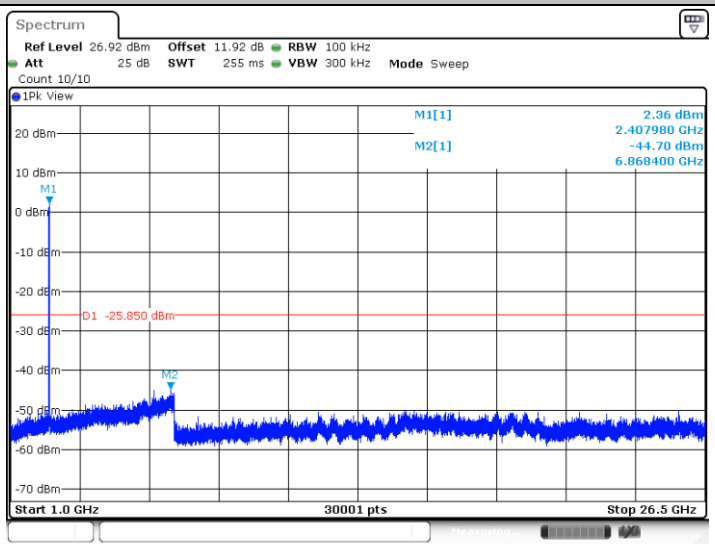

Date: 5.JUN.2024 09:29:54

11BE20MIMO_Ant2_2412_52Tone_RU4_30~1000



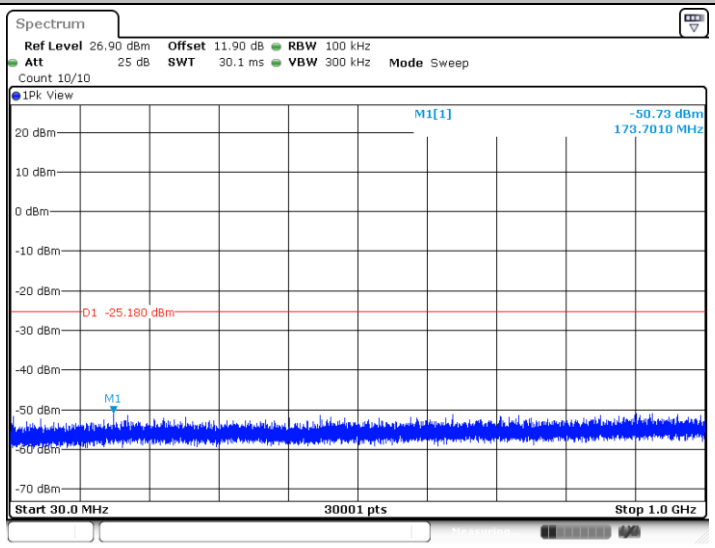

Date: 5.JUN.2024 09:30:47

11BE20MIMO_Ant2_2412_52Tone_RU4_1000~26500



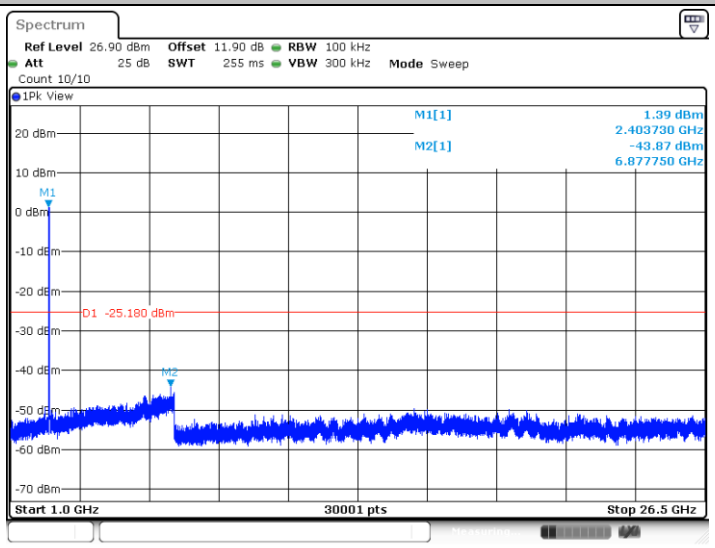

Date: 5.JUN.2024 09:31:02

11BE20MIMO_Ant3_2412_52Tone_RU4_30~1000



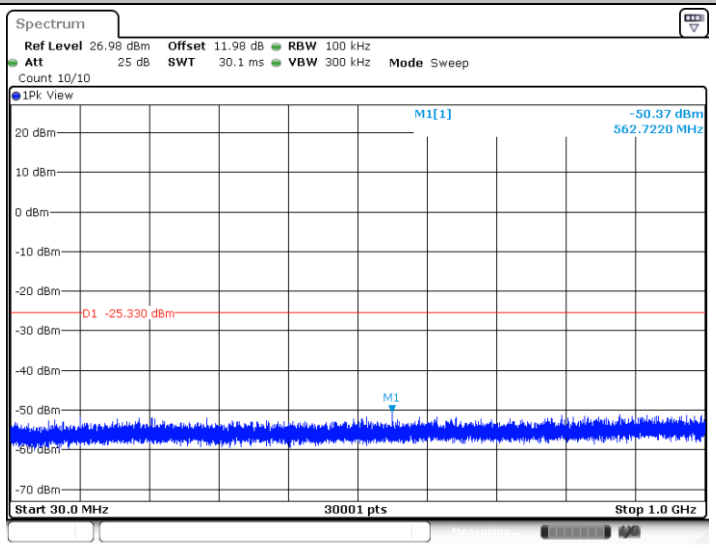

Date: 5.JUN.2024 09:31:58

11BE20MIMO_Ant3_2412_52Tone_RU4_1000~26500



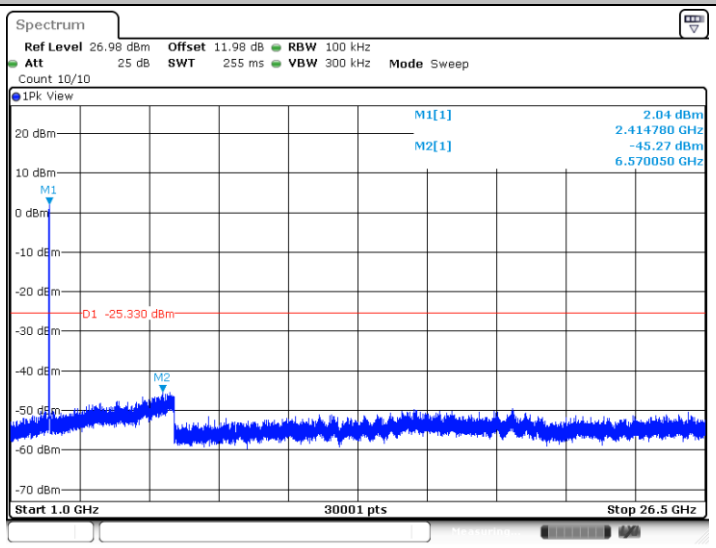

Date: 5.JUN.2024 09:32:13

11BE20MIMO_Ant4_2412_52Tone_RU4_30~1000



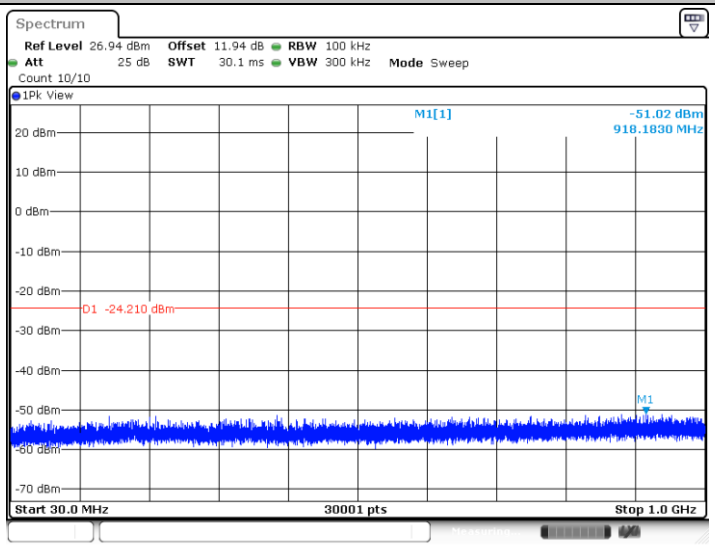

Date: 5.JUN.2024 09:33:13

11BE20MIMO_Ant4_2412_52Tone_RU4_1000~26500



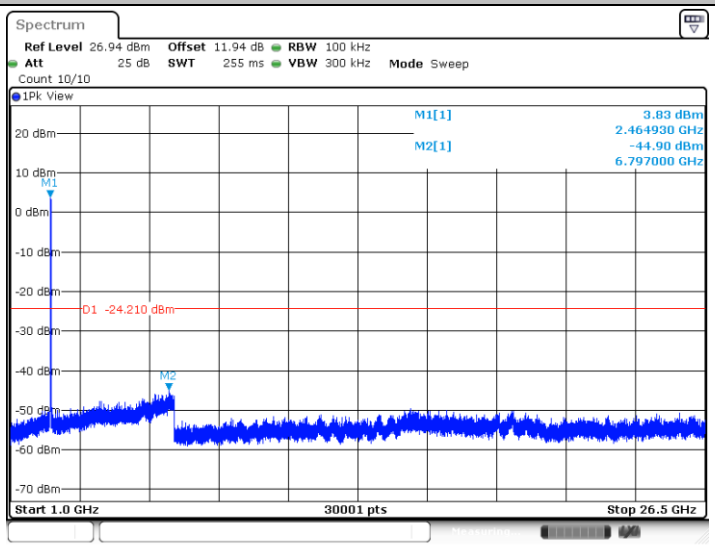

Date: 5.JUN.2024 09:33:29

11BE20MIMO_Ant1_2462_52Tone_RU4_30~1000



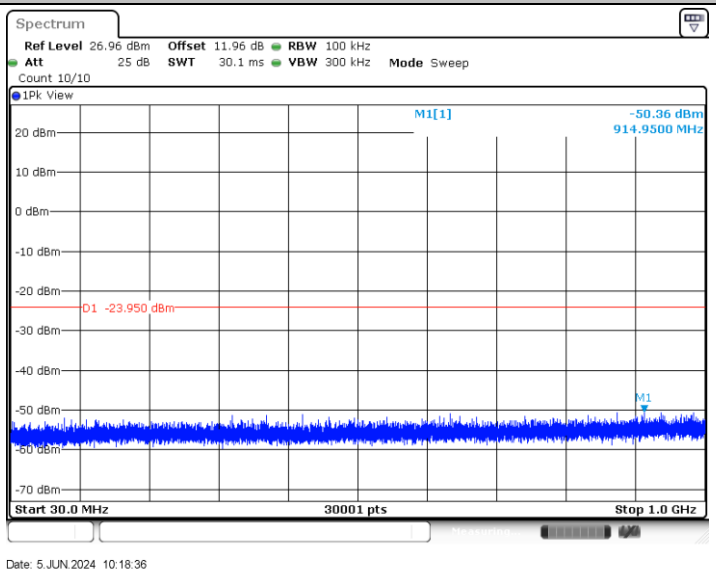

Date: 5.JUN.2024 10:17:22

11BE20MIMO_Ant1_2462_52Tone_RU4_1000~26500

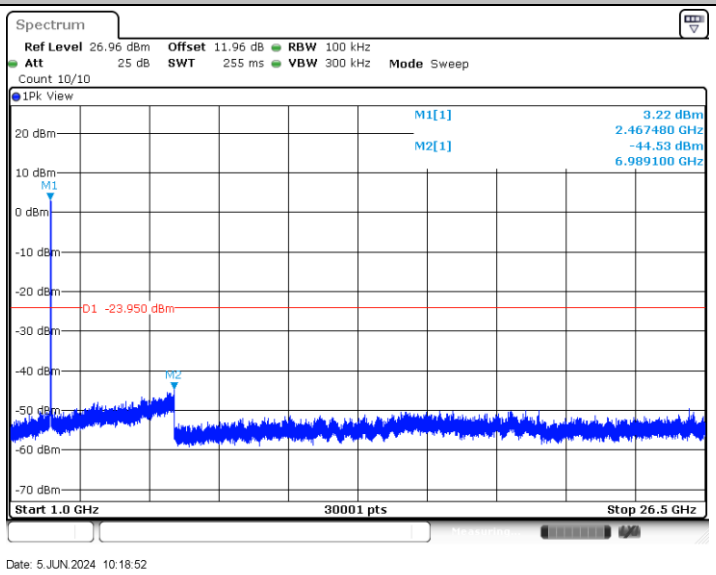



Date: 5.JUN.2024 10:17:37

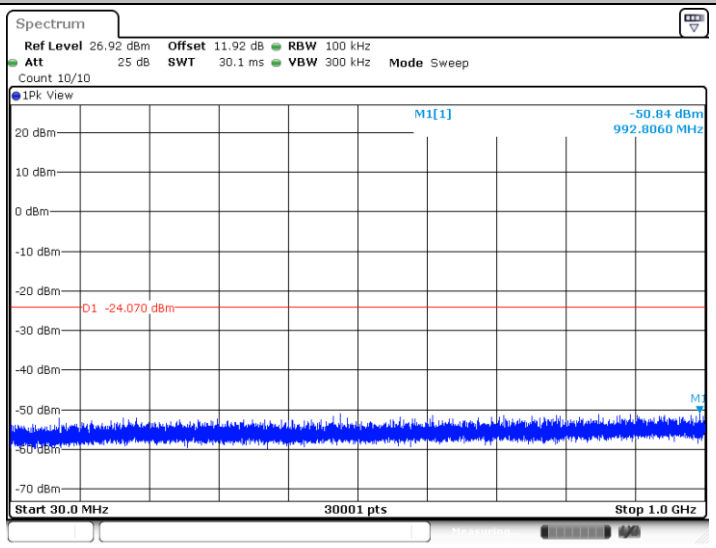
11BE20MIMO_Ant2_2462_52Tone_RU4_30~1000




11BE20MIMO_Ant2_2462_52Tone_RU4_1000~26500

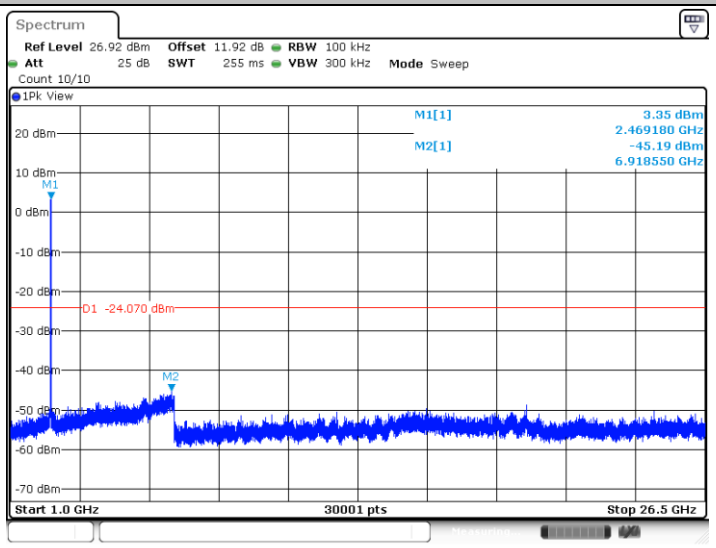


11BE20MIMO_Ant3_2462_52Tone_RU4_30~1000



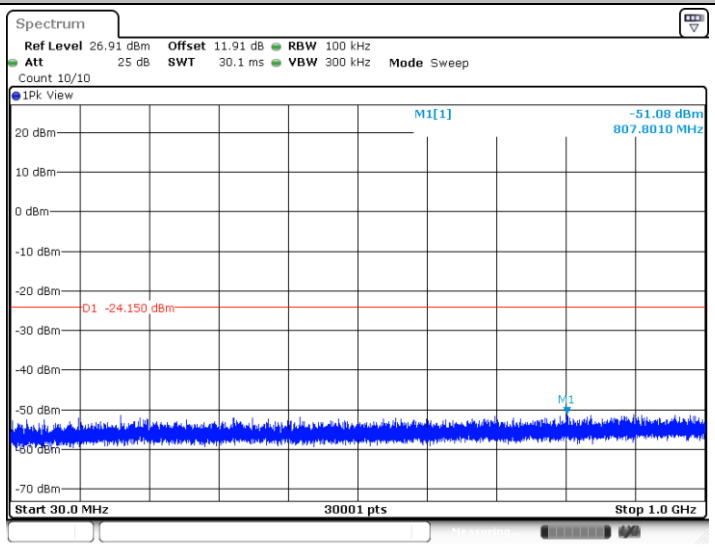

Date: 5.JUN.2024 10:19:52

11BE20MIMO_Ant3_2462_52Tone_RU4_1000~26500



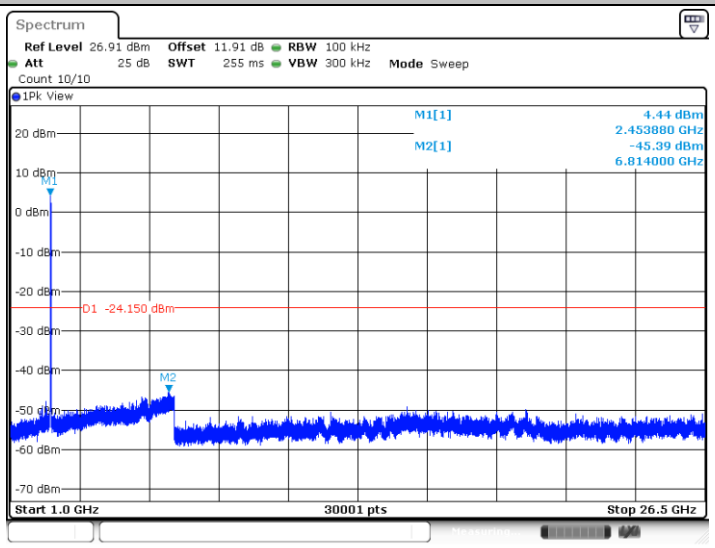

Date: 5.JUN.2024 10:20:08

11BE20MIMO_Ant4_2462_52Tone_RU4_30~1000



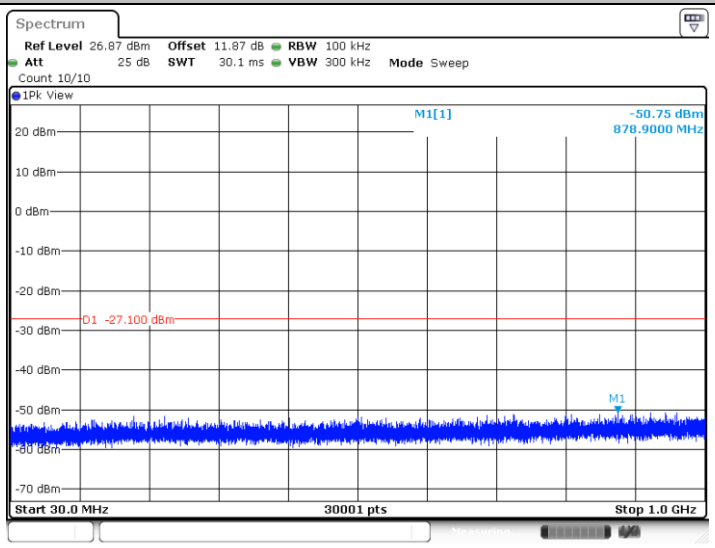

Date: 5.JUN.2024 10:21:08

11BE20MIMO_Ant4_2462_52Tone_RU4_1000~26500



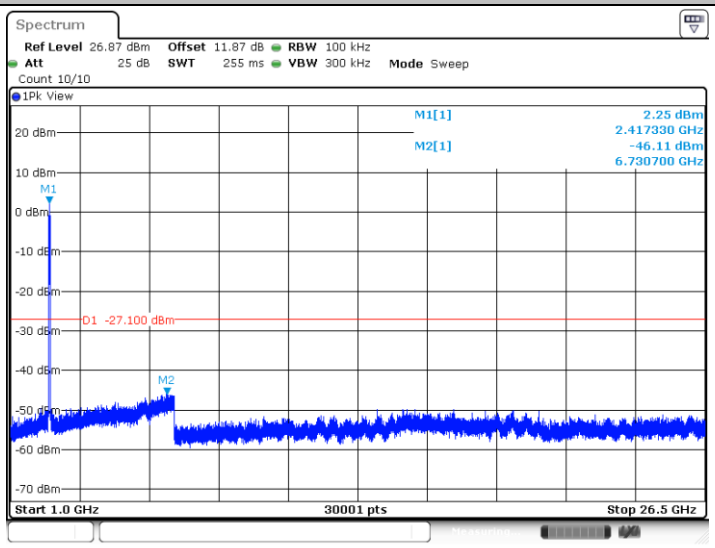

Date: 5.JUN.2024 10:21:24

11BE40MIMO_Ant1_2422_52Tone_RU8_30~1000



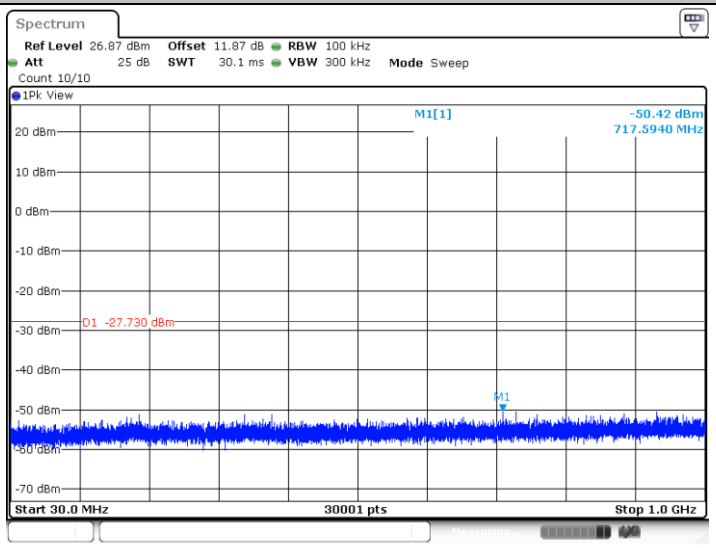

Date: 5.JUN.2024 23:05:42

11BE40MIMO_Ant1_2422_52Tone_RU8_1000~26500



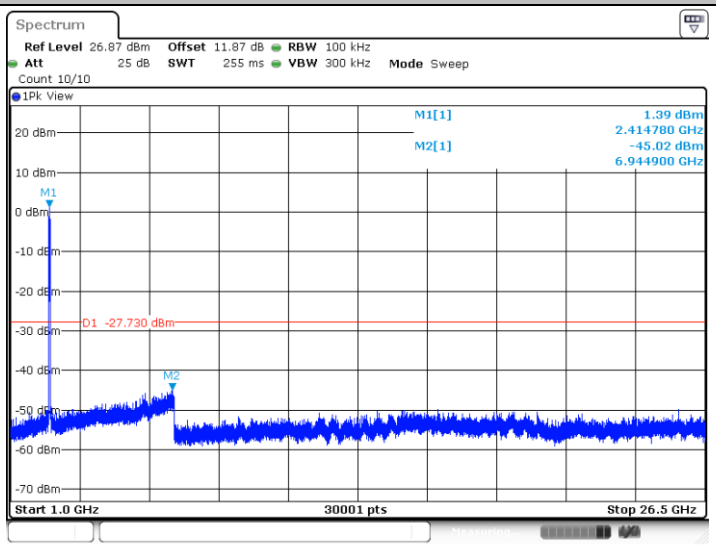

Date: 5.JUN.2024 23:05:57

11BE40MIMO_Ant2_2422_52Tone_RU8_30~1000




Date: 5.JUN.2024 23:06:58

11BE40MIMO_Ant2_2422_52Tone_RU8_1000~26500

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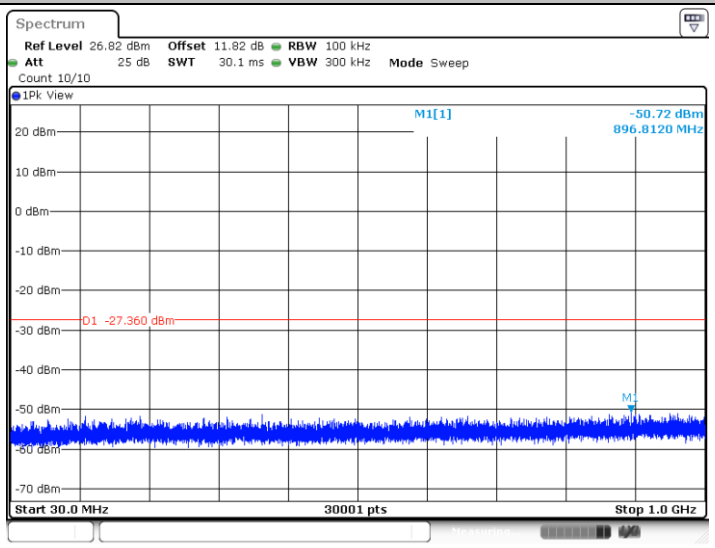
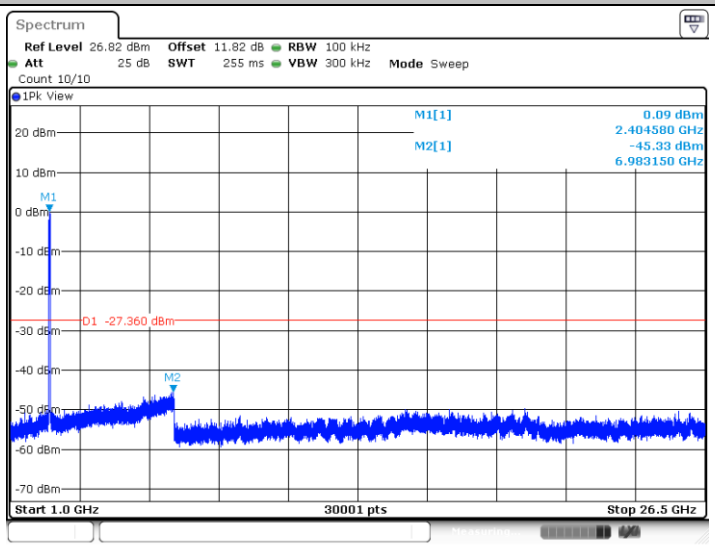
11BE40MIMO_Ant3_2422_52Tone_RU8_30~1000




Date: 5.JUN.2024 23:08:13

11BE40MIMO_Ant3_2422_52Tone_RU8_1000~26500




Date: 5.JUN.2024 23:08:28