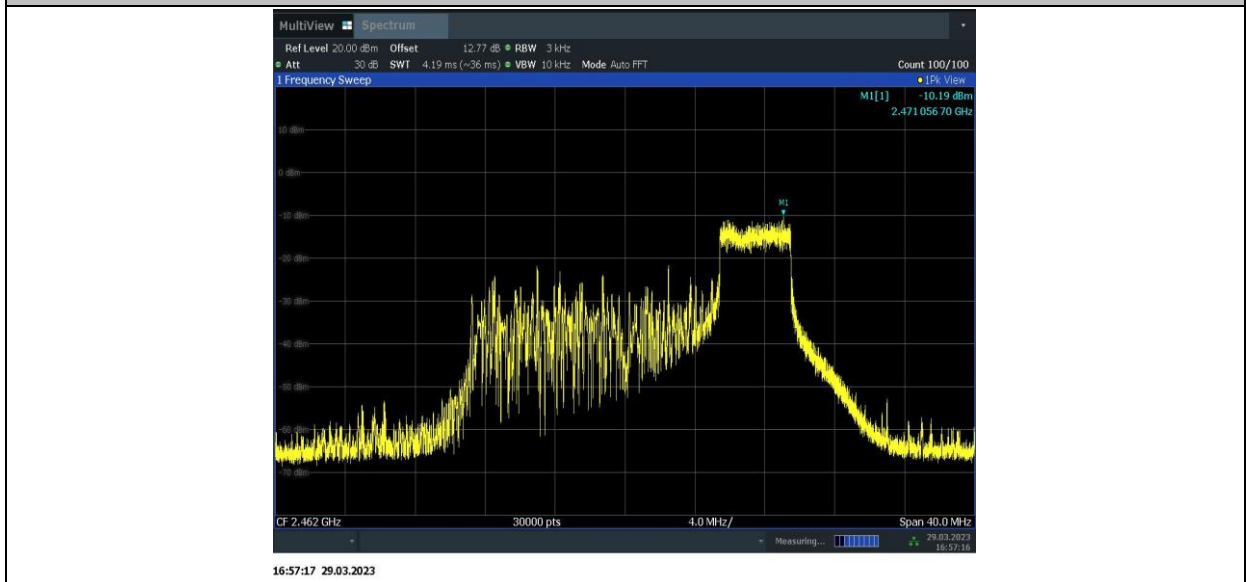
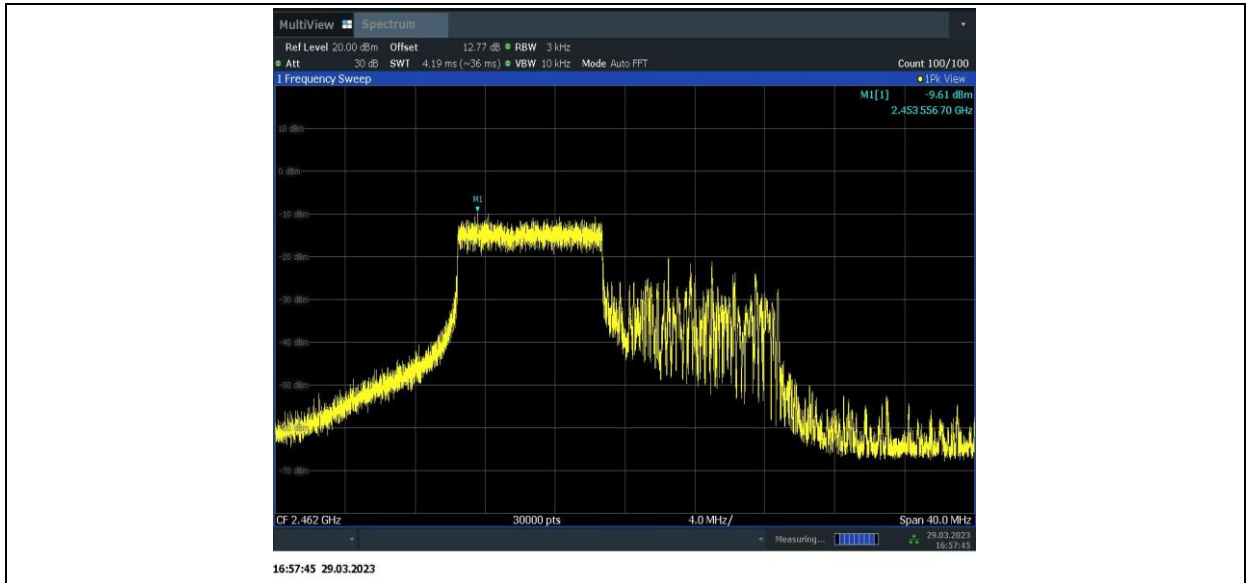


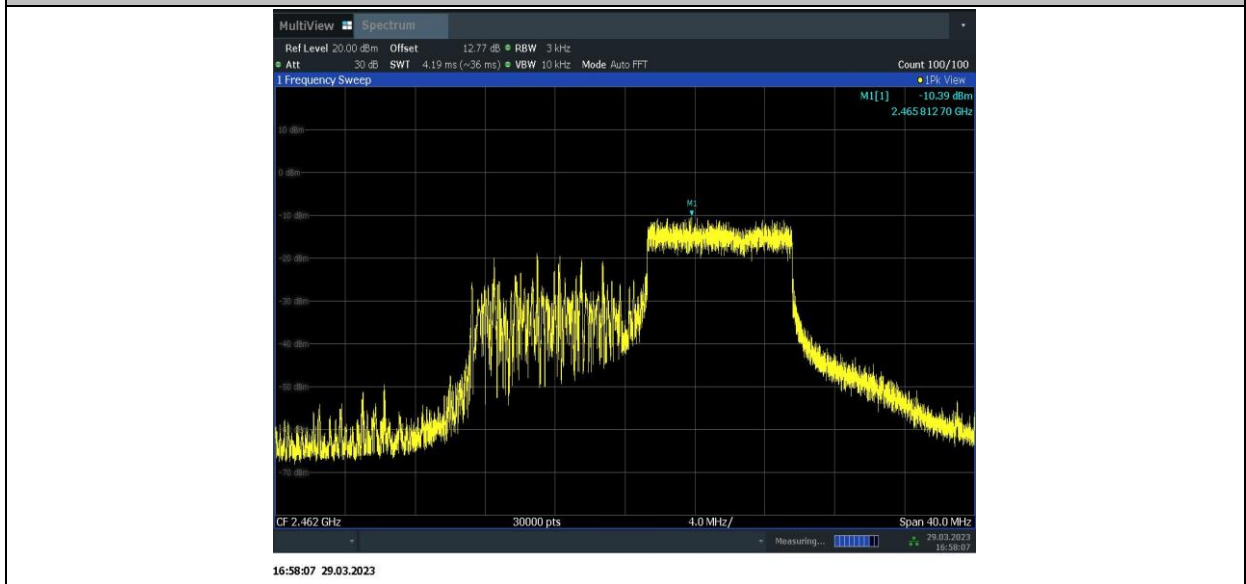
11BE20MIMO_Ant2_2462_52Tone_RU40



11BE20MIMO_Ant2_2462_106Tone_RU53



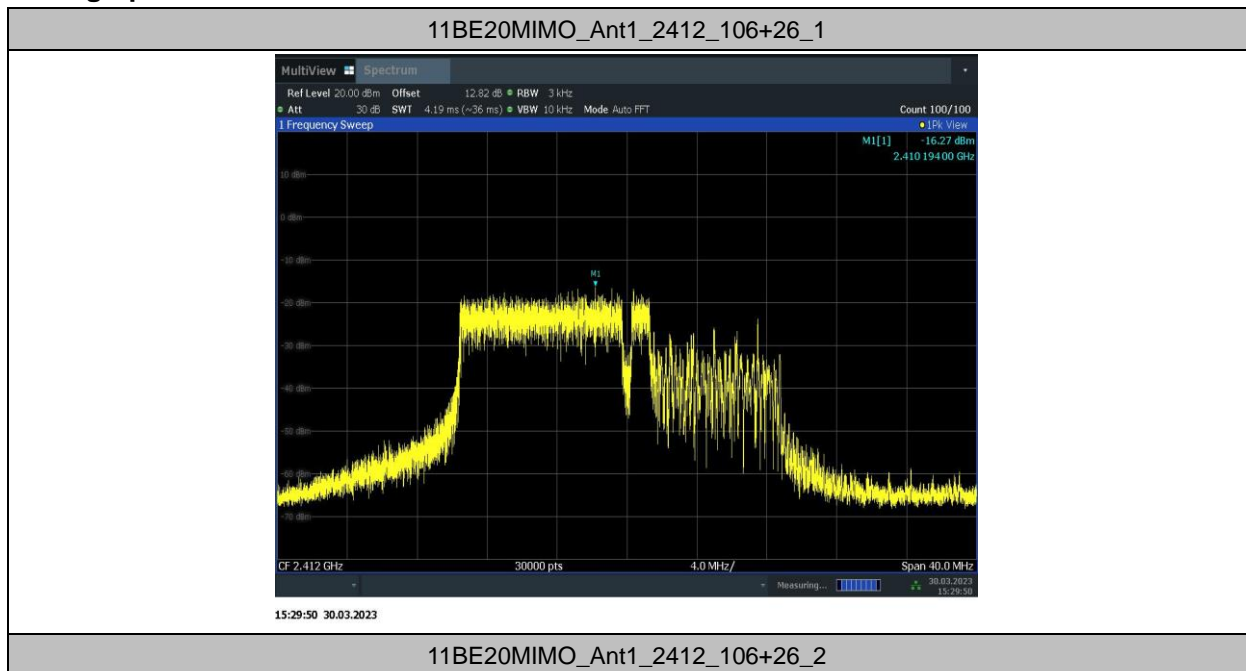
11BE20MIMO_Ant2_2462_106Tone_RU54

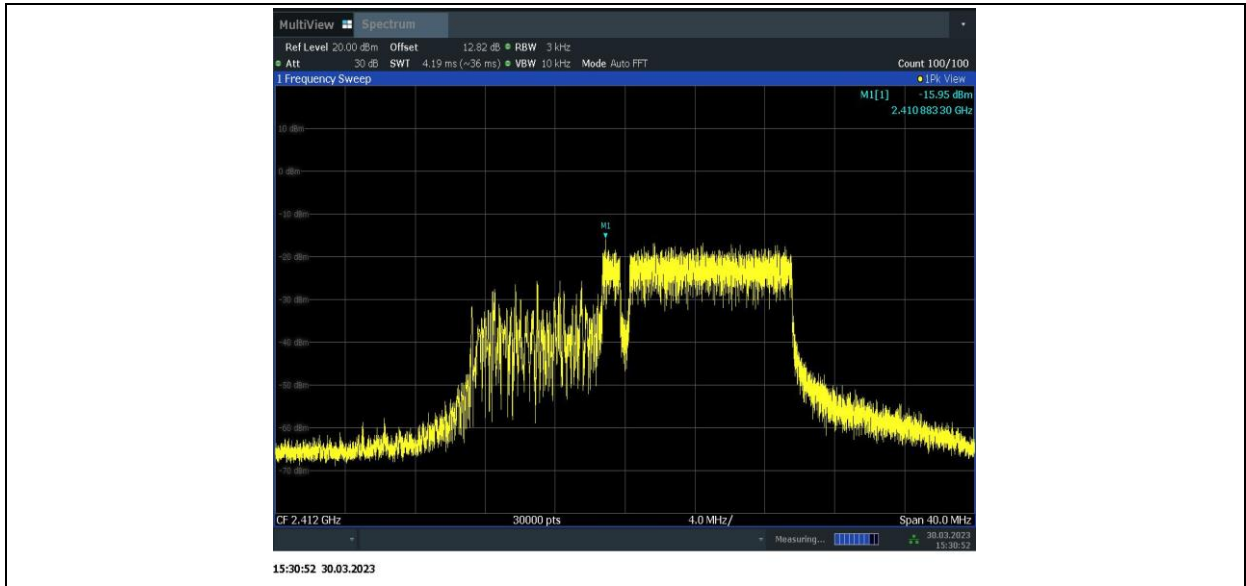

MRU

| TestMode | Antenna | Channel | Mru Index | Result [dBm/3kHz] | Limit [dBm/3kHz] | Verdict |
|------------|---------|---------|----------------------------------|-------------------|------------------|---------|
| 11BE20MIMO | Ant1 | 2412 | 106 Tone,index53 + 26Tone,index4 | -16.27 | ≤8.00 | PASS |
| | | | 106 Tone,index54 + 26Tone,index4 | -15.95 | ≤8.00 | PASS |
| | | | 52 Tone,index38 + 26Tone,index1 | -14.2 | ≤8.00 | PASS |
| | | | 52 Tone,index39 + 26Tone,index7 | -14.04 | ≤8.00 | PASS |
| | Ant2 | 2412 | 106 Tone,index53 | -16.18 | ≤8.00 | PASS |

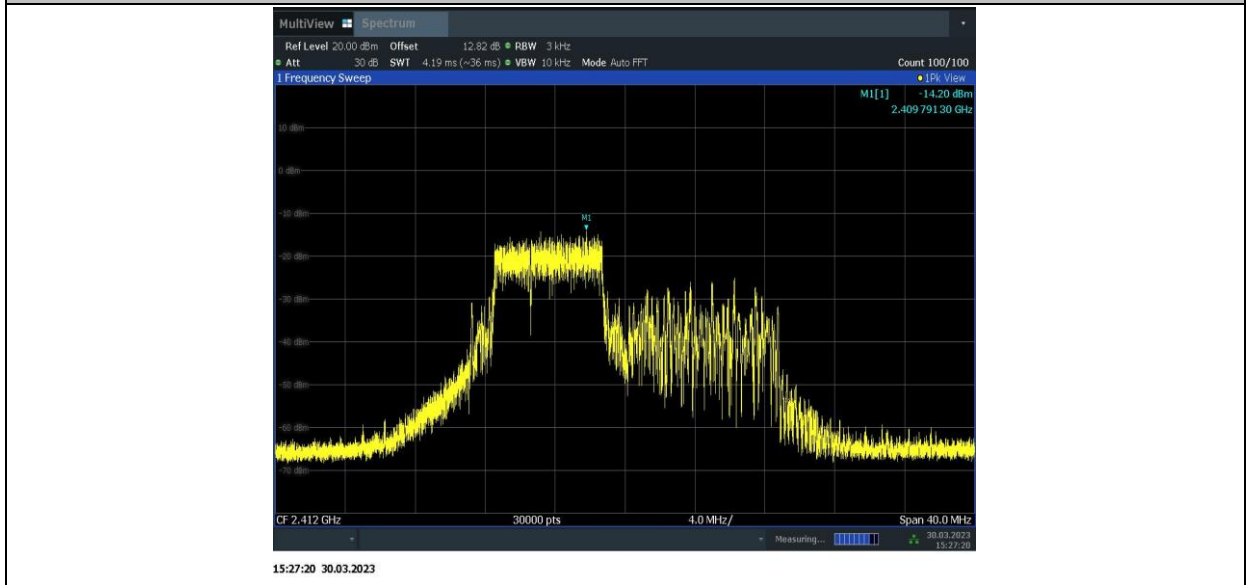
| | | | | | | |
|--|-------|------|-------------------------------------|--------|-------|------|
| | | | + 26Tone,index4 | | | |
| | | | 106 Tone,index54 + 26Tone,index4 | -17.24 | ≤8.00 | PASS |
| | | | 52 Tone,index38 + 26Tone,index1 | -14.67 | ≤8.00 | PASS |
| | | | 52 Tone,index39 + 26Tone,index7 | -14.33 | ≤8.00 | PASS |
| | total | 2412 | 106 Tone,index53 + 26Tone,index4 | -13.21 | ≤8.00 | PASS |
| | | | 106 Tone,index54 + 26Tone,index4 | -13.54 | ≤8.00 | PASS |
| | | | 52 Tone,index38 + 26Tone,index1 | -11.42 | ≤8.00 | PASS |
| | | | 52 Tone,index39 + 26Tone,index7 | -11.17 | ≤8.00 | PASS |
| | Ant1 | 2437 | 106 Tone,index53 + 26Tone,index4 | -16.69 | ≤8.00 | PASS |
| | | | 106 Tone,index54 + 26Tone,index4 | -17.31 | ≤8.00 | PASS |
| | | | 52 Tone,index38 + 26Tone,index1 | -14.05 | ≤8.00 | PASS |
| | | | 52 Tone,index39 + 26Tone,index7 | -14.82 | ≤8.00 | PASS |
| | Ant2 | 2437 | 106 Tone,index53 + 26Tone,index4 | -17.17 | ≤8.00 | PASS |
| | | | 106 Tone,index54 + 26Tone,index4 | -18.07 | ≤8.00 | PASS |
| | | | 52 Tone,index38 + 26Tone,index1 | -14.48 | ≤8.00 | PASS |
| | | | 52 Tone,index39 + 26Tone,index7 | -15.6 | ≤8.00 | PASS |
| | total | 2437 | 106 Tone,index53 + 26Tone,index4 | -13.91 | ≤8.00 | PASS |
| | | | 106 Tone,index54 + 26Tone,index4 | -14.66 | ≤8.00 | PASS |
| | | | 52 Tone,index38 + 26Tone,index1 | -11.25 | ≤8.00 | PASS |
| | | | 52 Tone,index39 + 26Tone,index7 | -12.18 | ≤8.00 | PASS |
| | Ant1 | 2462 | 106 Tone,index53 + 26Tone,index4 | -16.53 | ≤8.00 | PASS |
| | | | 106 Tone,index54 | -17.39 | ≤8.00 | PASS |

| | | | | | | | |
|--|-------|------|----------------------------------|----------------------------------|--------|-------|------|
| | | | + 26Tone,index4 | | | | |
| | | | 52 Tone,index38 + 26Tone,index1 | -14.08 | ≤8.00 | PASS | |
| | | | 52 Tone,index39 + 26Tone,index7 | -13.91 | ≤8.00 | PASS | |
| | Ant2 | 2462 | 106 Tone,index53 + 26Tone,index4 | -17.21 | ≤8.00 | PASS | |
| | | | | 106 Tone,index54 + 26Tone,index4 | -18.1 | ≤8.00 | PASS |
| | | | | 52 Tone,index38 + 26Tone,index1 | -15.13 | ≤8.00 | PASS |
| | | | | 52 Tone,index39 + 26Tone,index7 | -14.53 | ≤8.00 | PASS |
| | total | 2462 | 106 Tone,index53 + 26Tone,index4 | -13.85 | ≤8.00 | PASS | |
| | | | | 106 Tone,index54 + 26Tone,index4 | -14.72 | ≤8.00 | PASS |
| | | | | 52 Tone,index38 + 26Tone,index1 | -11.56 | ≤8.00 | PASS |
| | | | | 52 Tone,index39 + 26Tone,index7 | -11.20 | ≤8.00 | PASS |

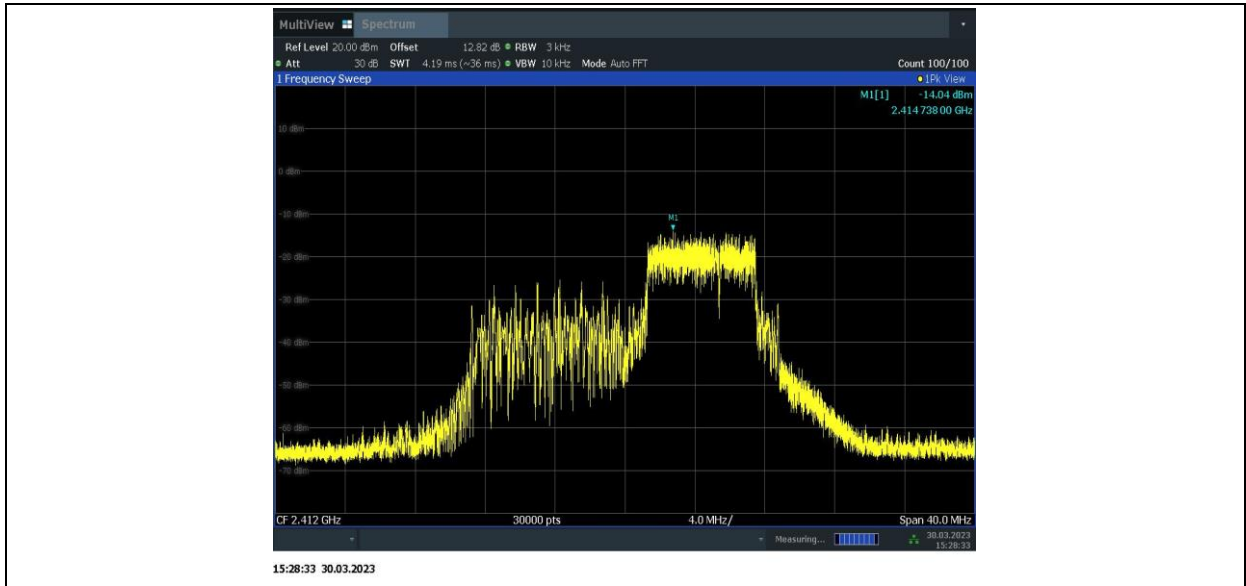
Test graphs as




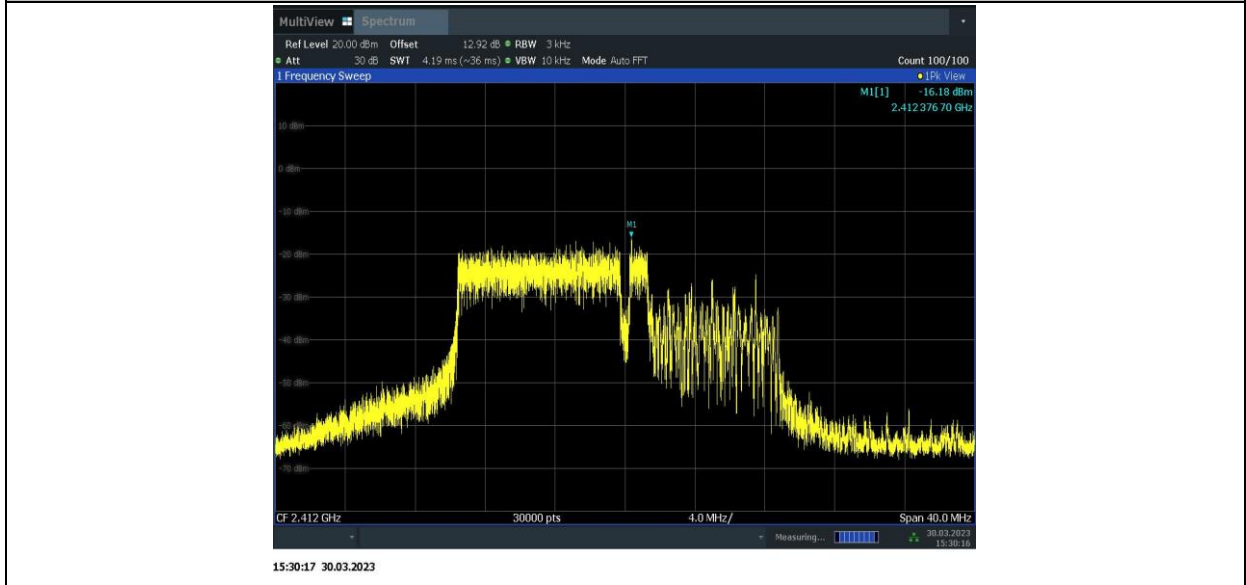
11BE20MIMO_Ant1_2412_52+26_1



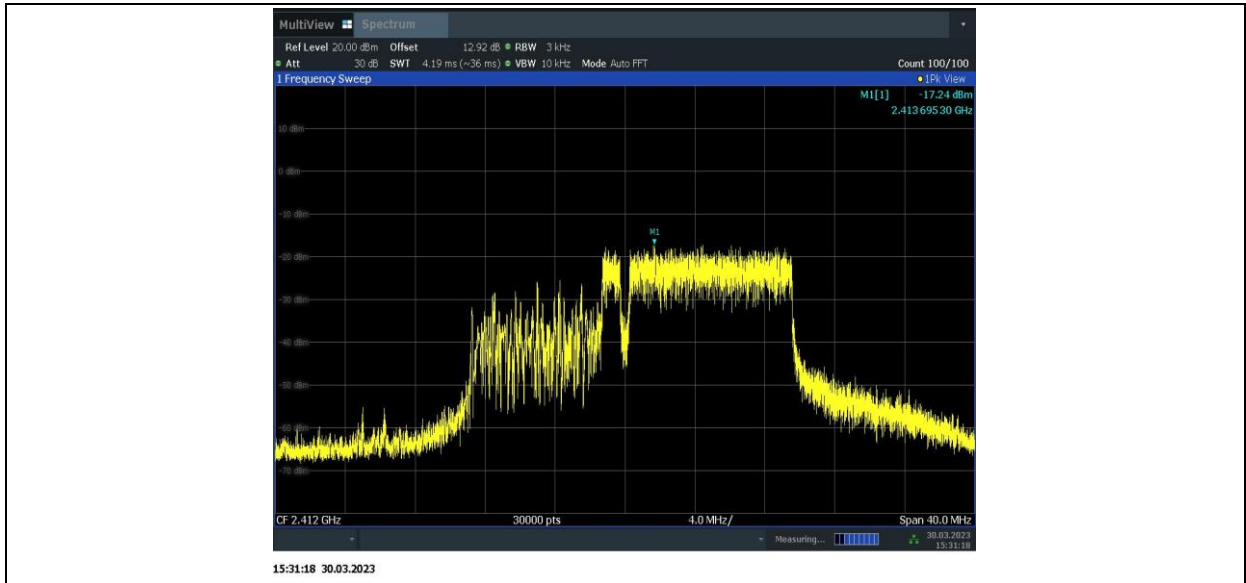
11BE20MIMO_Ant1_2412_52+26_3



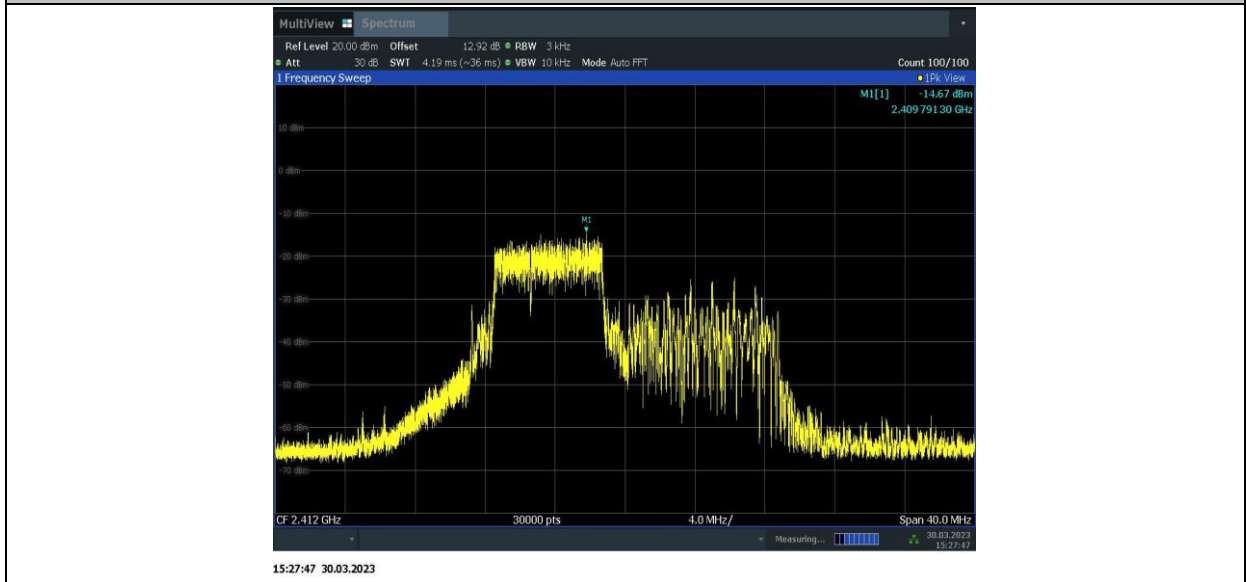
11BE20MIMO_Ant2_2412_106+26_1



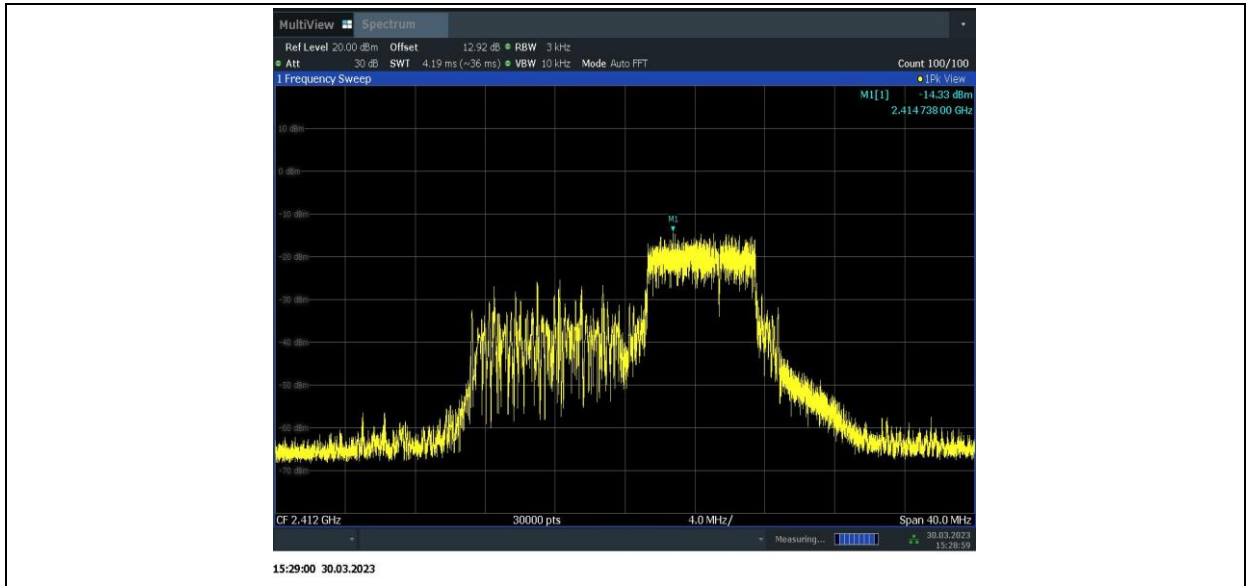
11BE20MIMO_Ant2_2412_106+26_2



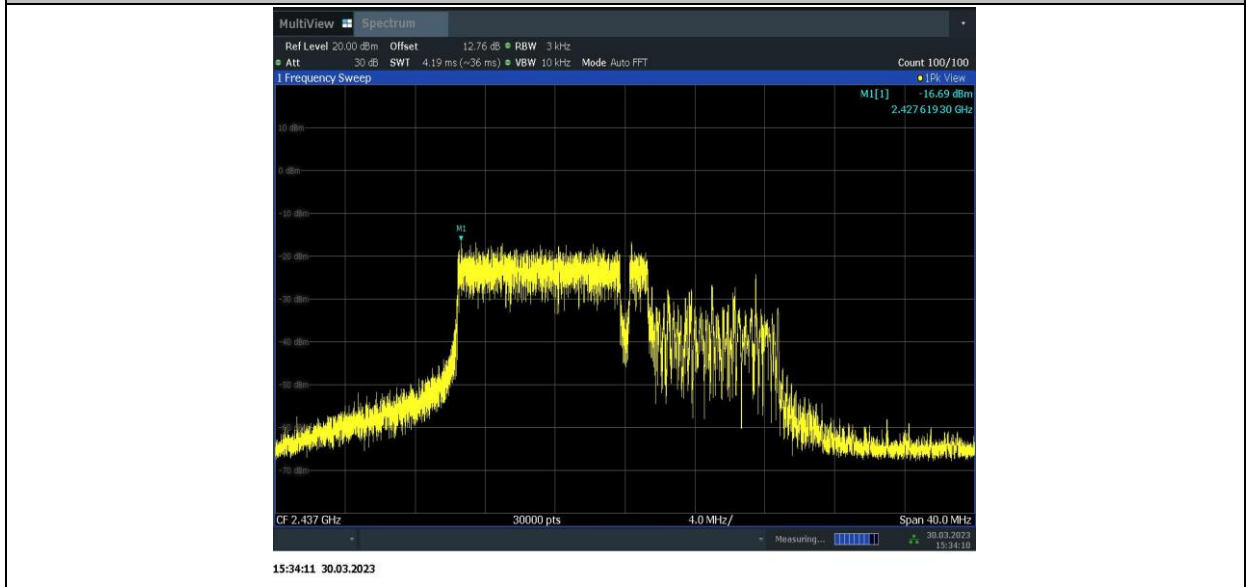
11BE20MIMO_Ant2_2412_52+26_1



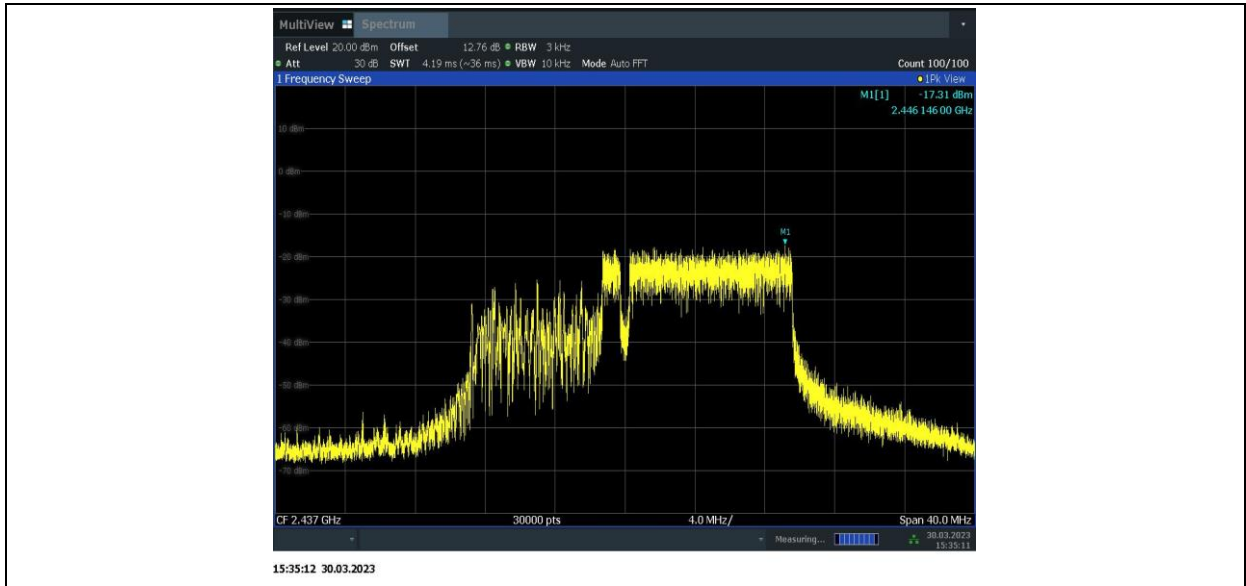
11BE20MIMO_Ant2_2412_52+26_3



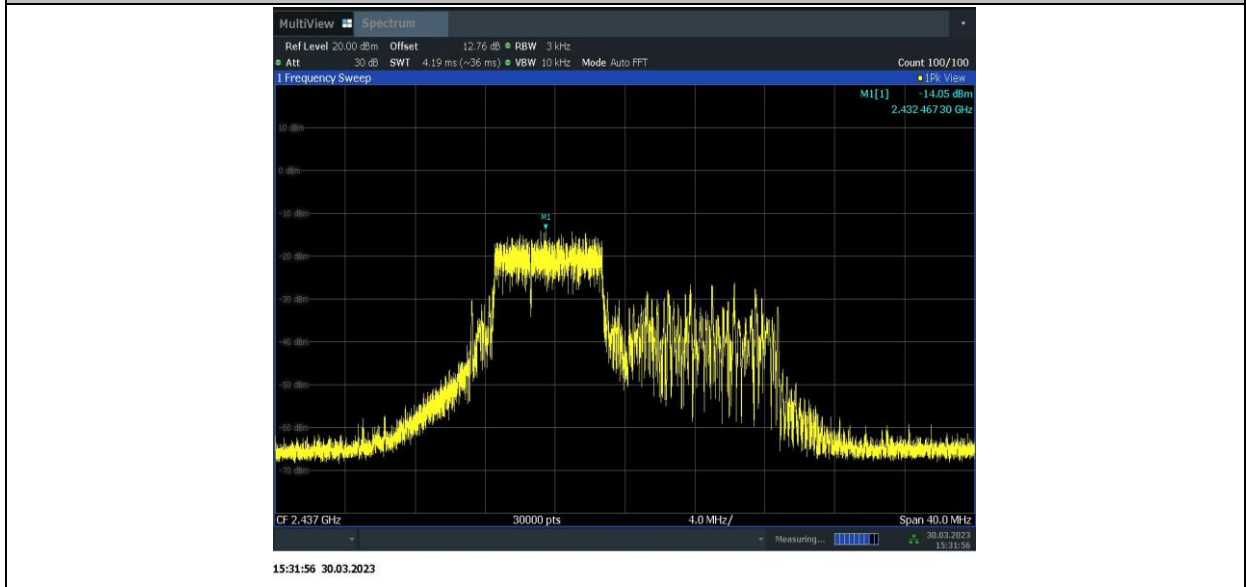
11BE20MIMO_Ant1_2437_106+26_1



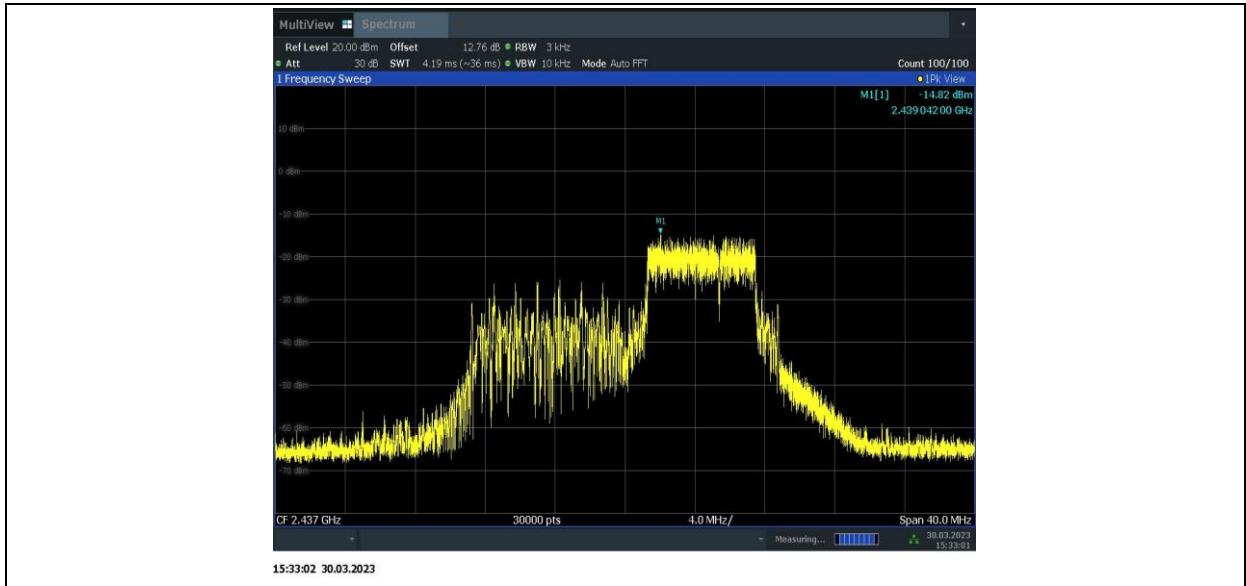
11BE20MIMO_Ant1_2437_106+26_2



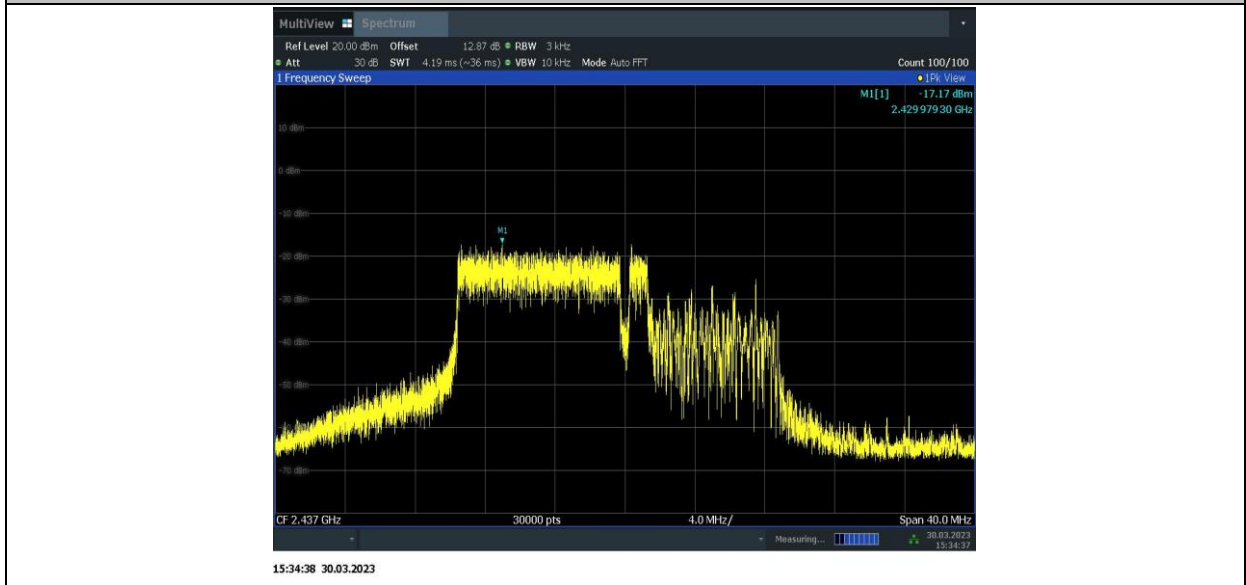
11BE20MIMO_Ant1_2437_52+26_1



11BE20MIMO_Ant1_2437_52+26_3



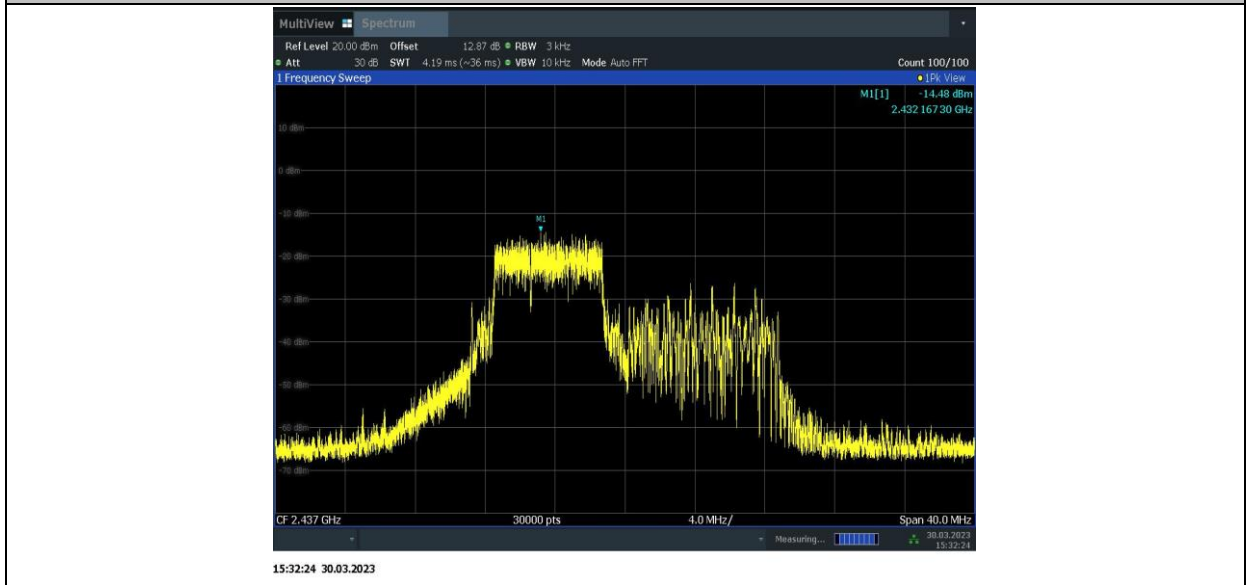
11BE20MIMO_Ant2_2437_106+26_1



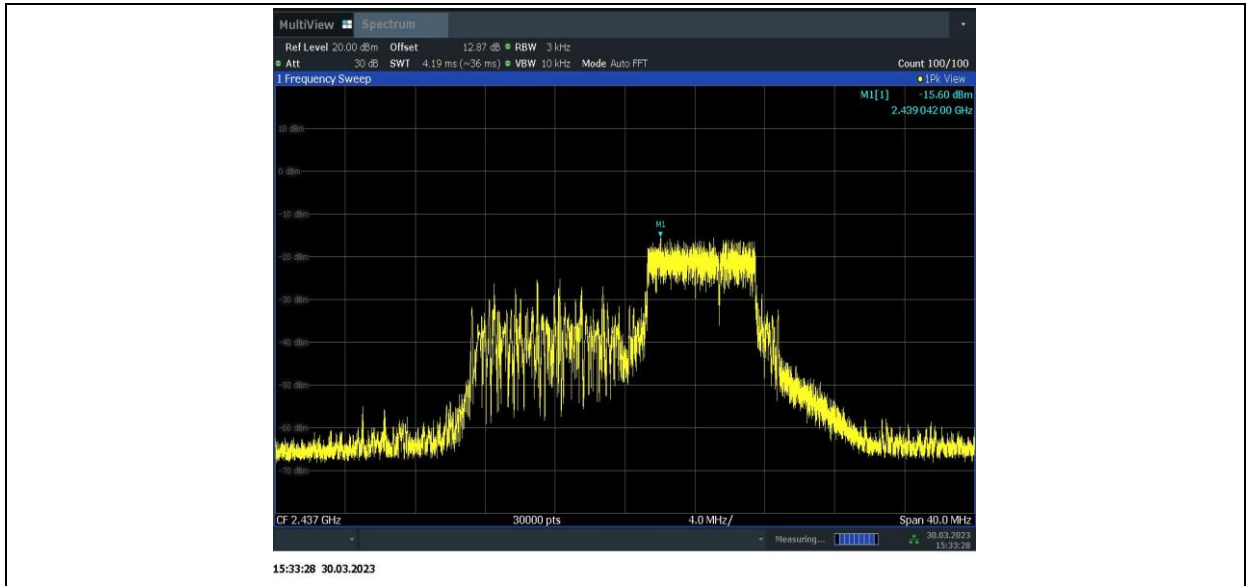
11BE20MIMO_Ant2_2437_106+26_2



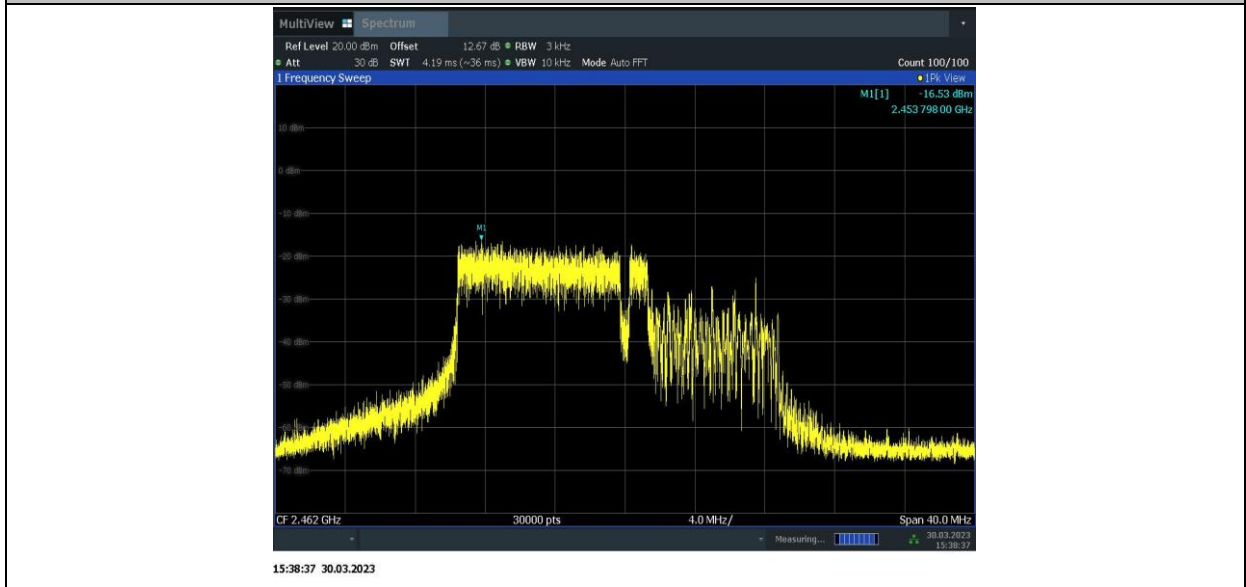
11BE20MIMO_Ant2_2437_52+26_1



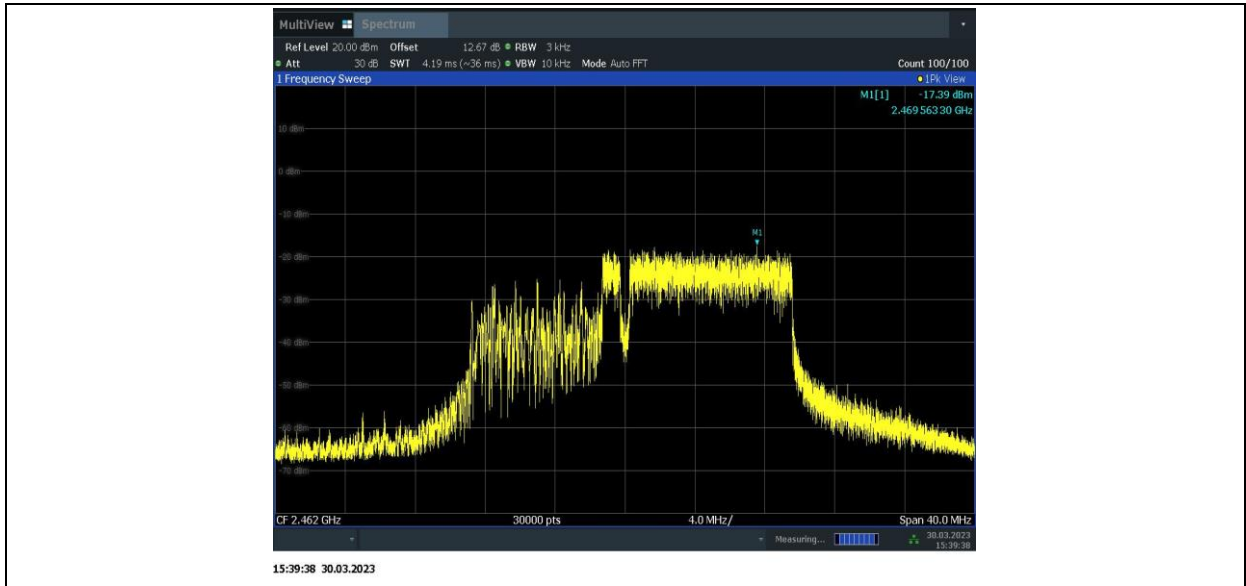
11BE20MIMO_Ant2_2437_52+26_3



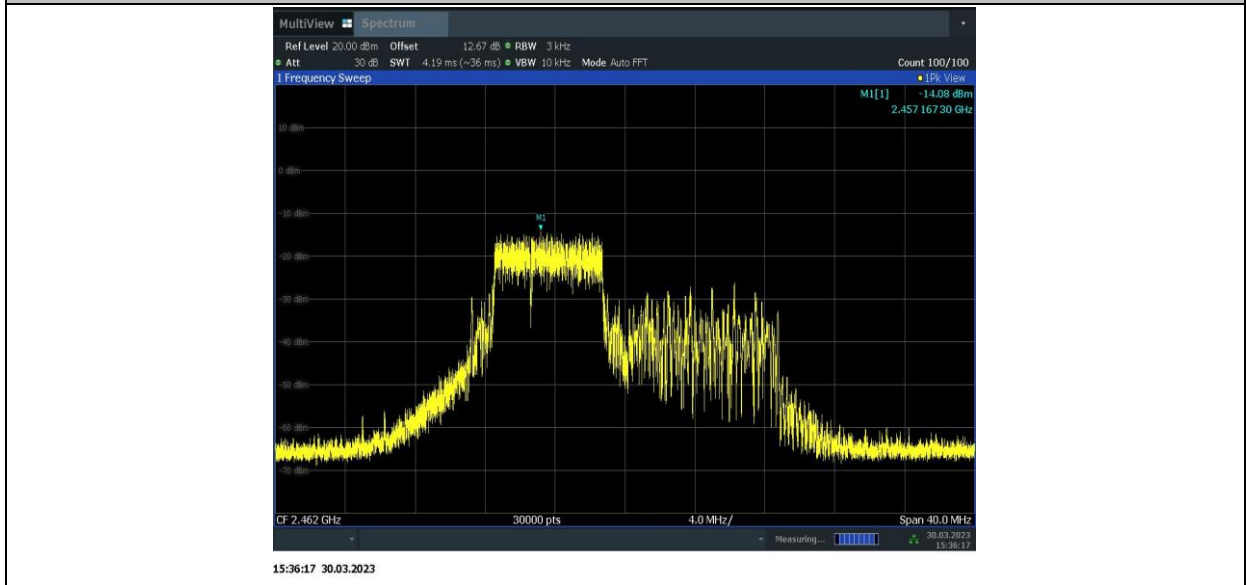
11BE20MIMO_Ant1_2462_106+26_1



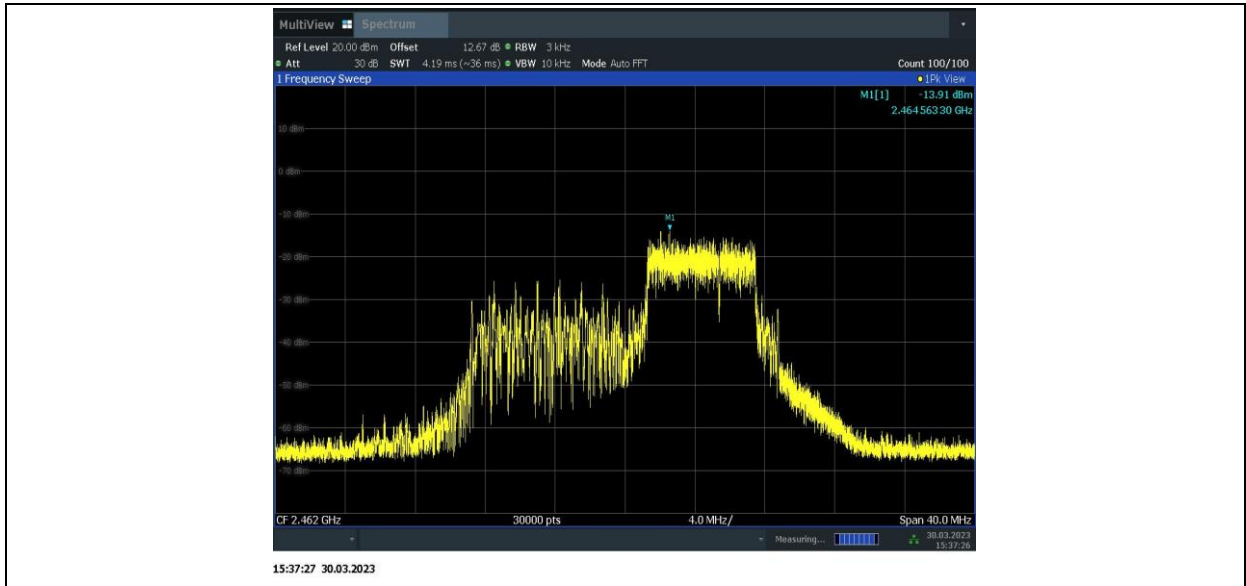
11BE20MIMO_Ant1_2462_106+26_2



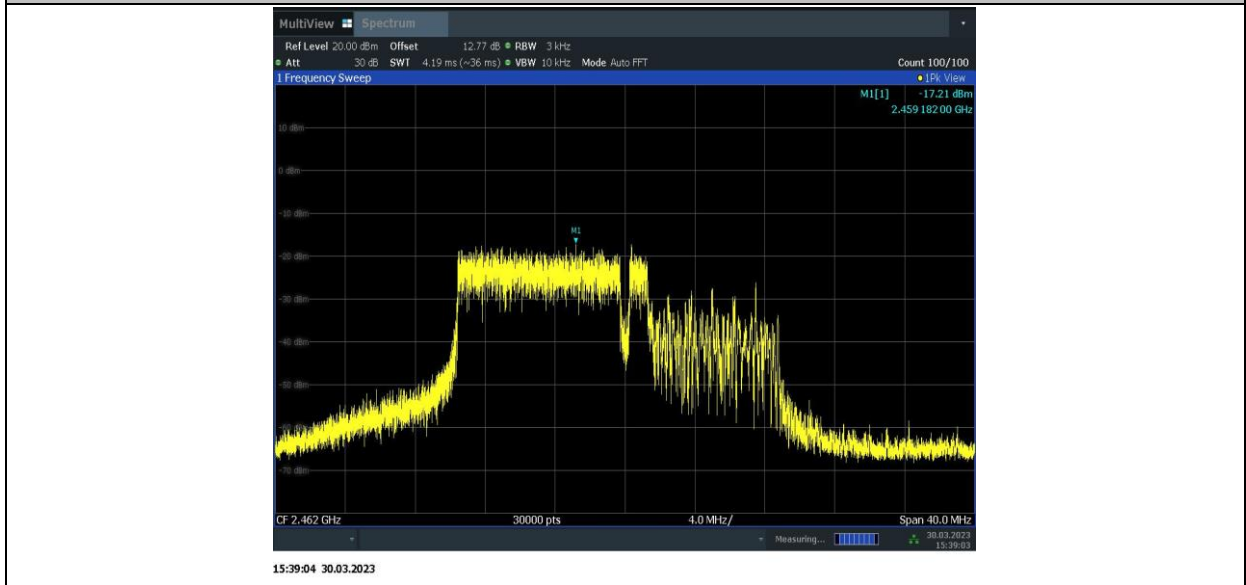
11BE20MIMO_Ant1_2462_52+26_1



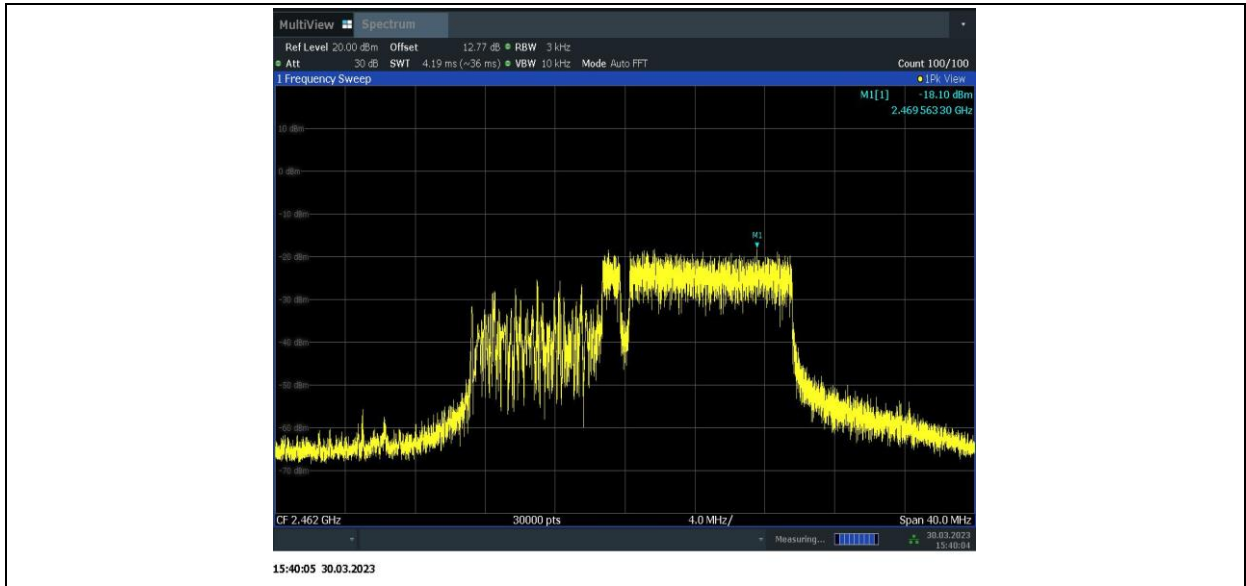
11BE20MIMO_Ant1_2462_52+26_3



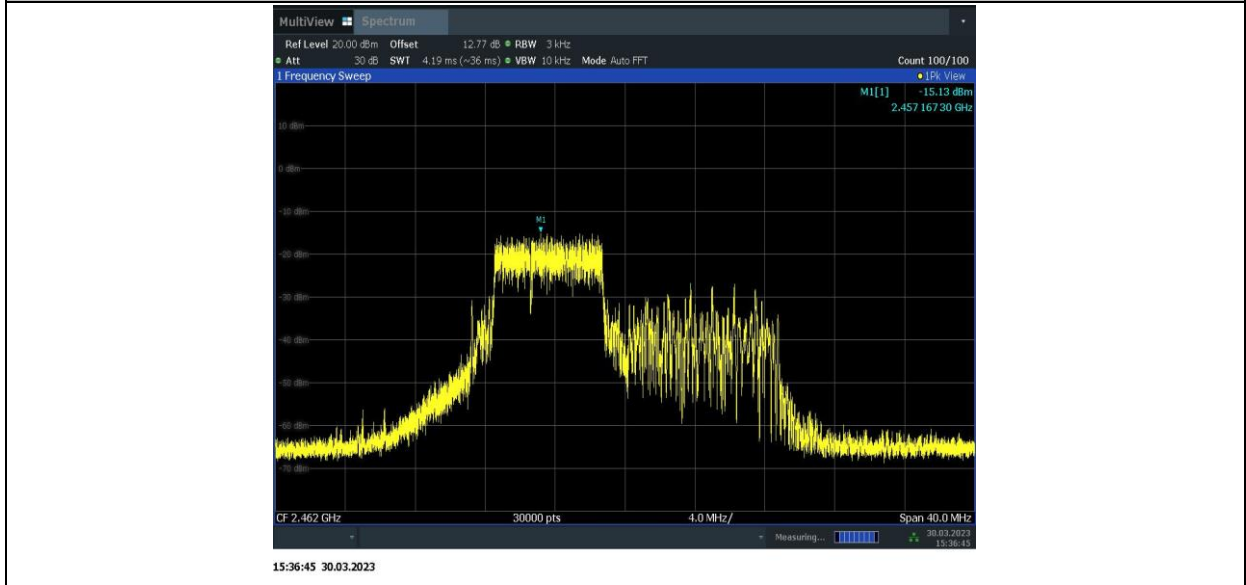
11BE20MIMO_Ant2_2462_106+26_1



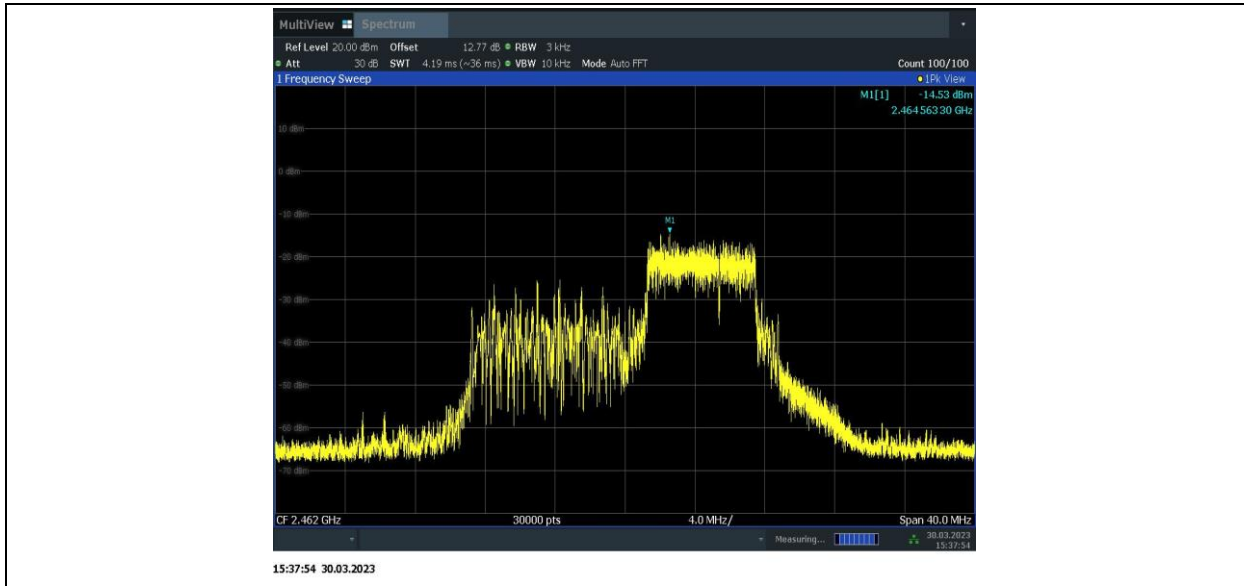
11BE20MIMO_Ant2_2462_106+26_2



11BE20MIMO_Ant2_2462_52+26_1



11BE20MIMO_Ant2_2462_52+26_3



Conclusion: Pass

A.4. DTS 6-dB Signal Bandwidth

Method of Measurement: See ANSI C63.10-2013 section 11.8.1.

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) = 300 kHz.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Measurement Limit:

| Standard | Limit (kHz) |
|----------------------------|-------------|
| FCC 47 CFR Part 15.247 (a) | ≥ 500 |

EUT ID: UT35a

Measurement Result:

Ant1 of the result table and result graph corresponds to ant5 of the EUT, ant2 of the result table and result graph corresponds to ant6 of the EUT.

| Test Mode | Antenna | Frey [MHz] | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit [MHz] | Verdict |
|-----------|---------|------------|--------------|---------|---------|-------------|---------|
| 11B-MIMO | Ant1 | 2412 | 7.56 | 2408.44 | 2416.00 | 0.5 | PASS |
| | Ant2 | 2412 | 7.08 | 2408.44 | 2415.52 | 0.5 | PASS |
| | Ant1 | 2437 | 8.00 | 2433.00 | 2441.00 | 0.5 | PASS |

| | | | | | | | |
|------------|------|------|-------|---------|---------|-----|------|
| | Ant2 | 2437 | 7.56 | 2432.96 | 2440.52 | 0.5 | PASS |
| | Ant1 | 2462 | 7.56 | 2457.96 | 2465.52 | 0.5 | PASS |
| | Ant2 | 2462 | 7.60 | 2458.40 | 2466.00 | 0.5 | PASS |
| 11G-MIMO | Ant1 | 2412 | 16.36 | 2403.80 | 2420.16 | 0.5 | PASS |
| | Ant2 | 2412 | 16.36 | 2403.80 | 2420.16 | 0.5 | PASS |
| | Ant1 | 2437 | 16.36 | 2428.80 | 2445.16 | 0.5 | PASS |
| | Ant2 | 2437 | 16.36 | 2428.80 | 2445.16 | 0.5 | PASS |
| | Ant1 | 2462 | 16.36 | 2453.80 | 2470.16 | 0.5 | PASS |
| | Ant2 | 2462 | 16.36 | 2453.80 | 2470.16 | 0.5 | PASS |
| 11BE20MIMO | Ant1 | 2412 | 18.96 | 2402.52 | 2421.48 | 0.5 | PASS |
| | Ant2 | 2412 | 18.88 | 2402.56 | 2421.44 | 0.5 | PASS |
| | Ant1 | 2437 | 19.00 | 2427.48 | 2446.48 | 0.5 | PASS |
| | Ant2 | 2437 | 19.04 | 2427.44 | 2446.48 | 0.5 | PASS |
| | Ant1 | 2462 | 18.88 | 2452.48 | 2471.36 | 0.5 | PASS |
| | Ant2 | 2462 | 19.00 | 2452.44 | 2471.44 | 0.5 | PASS |
| 11BE40MIMO | Ant1 | 2422 | 38.08 | 2402.96 | 2441.04 | 0.5 | PASS |
| | Ant2 | 2422 | 37.84 | 2403.20 | 2441.04 | 0.5 | PASS |
| | Ant1 | 2437 | 38.16 | 2417.96 | 2456.12 | 0.5 | PASS |
| | Ant2 | 2437 | 38.16 | 2417.88 | 2456.04 | 0.5 | PASS |
| | Ant1 | 2452 | 38.16 | 2432.80 | 2470.96 | 0.5 | PASS |
| | Ant2 | 2452 | 38.32 | 2432.80 | 2471.12 | 0.5 | PASS |

Test graphs as below:





11B- MIMO_Ant1_2437



11B- MIMO_Ant2_2437



11B- MIMO_Ant1_2462



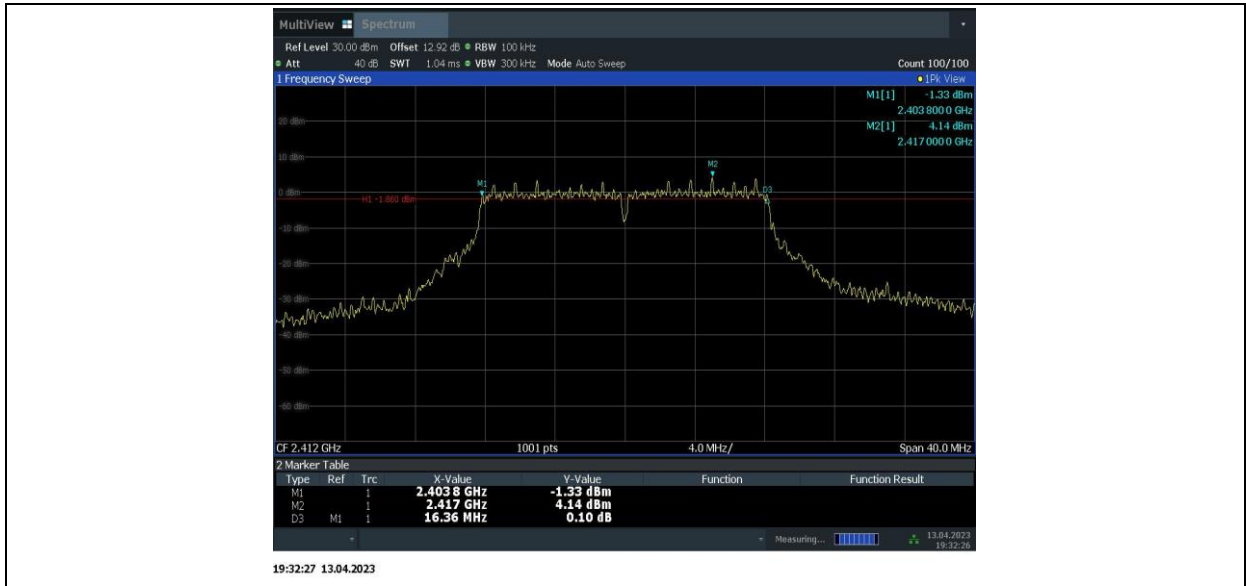
11B- MIMO_Ant2_2462



11G- MIMO_Ant1_2412



11G- MIMO_Ant2_2412



11G- MIMO_Ant1_2437



11G- MIMO_Ant2_2437



11G- MIMO_Ant1_2462



11G- MIMO_Ant2_2462



11BE20MIMO_Ant1_2412



11BE20MIMO_Ant2_2412



11BE20MIMO_Ant1_2437



11BE20MIMO_Ant2_2437



11BE20MIMO_Ant1_2462



11BE20MIMO_Ant2_2462



11BE40MIMO_Ant1_2422



11BE40MIMO_Ant2_2422



11BE40MIMO_Ant1_2437



11BE40MIMO_Ant2_2437



11BE40MIMO_Ant1_2452



11BE40MIMO_Ant2_2452



Conclusion: Pass

A.5. Band Edges Compliance

Method of Measurement: See ANSI C63.10-2013-clause 6.10.4

Connect the spectrum analyzer to the EUT using an appropriate RF cable connected to the EUT output. Configure the spectrum analyzer settings as described below.

- Set Span = 100MHz
- Sweep Time: coupled
- Set the RBW= 100 kHz
- Set the VBW= 300 kHz
- Detector: Peak
- Trace: Max hold

Measurement Limit:

| Standard | Limit (dBc) |
|----------------------------|-------------|
| FCC 47 CFR Part 15.247 (d) | > 20 |

EUT ID: UT35a

Measurement Result:

Ant1 of the result table and result graph corresponds to ant5 of the EUT, ant2 of the result table and result graph corresponds to ant6 of the EUT.

| Test Mode | Antenna | Ch Name | Fre [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|-----------|---------|---------|-----------|----------------|-------------|------------|---------|
| 11B-MIMO | Ant1 | Low | 2412 | 6.95 | -35.58 | ≤-13.05 | PASS |
| | Ant2 | Low | 2412 | 7.27 | -33.85 | ≤-12.73 | PASS |
| | Ant1 | High | 2462 | 6.93 | -46.32 | ≤-13.07 | PASS |
| | Ant2 | High | 2462 | 6.58 | -46.55 | ≤-13.42 | PASS |

| | | | | | | | |
|------------|------|------|------|-------|--------|---------------|------|
| 11G- MIMO | Ant1 | Low | 2412 | 3.73 | -26.6 | ≤ -16.27 | PASS |
| | Ant2 | Low | 2412 | 3.97 | -28.83 | ≤ -16.03 | PASS |
| | Ant1 | High | 2462 | 4.16 | -38.3 | ≤ -15.84 | PASS |
| | Ant2 | High | 2462 | 3.26 | -36.18 | ≤ -16.74 | PASS |
| 11BE20MIMO | Ant1 | Low | 2412 | 4.37 | -28.47 | ≤ -15.63 | PASS |
| | Ant2 | Low | 2412 | 5.27 | -26.33 | ≤ -14.73 | PASS |
| | Ant1 | High | 2462 | 4.98 | -33.94 | ≤ -15.02 | PASS |
| | Ant2 | High | 2462 | 4.28 | -32.36 | ≤ -15.72 | PASS |
| 11BE40MIMO | Ant1 | Low | 2422 | -0.40 | -29.69 | ≤ -20.4 | PASS |
| | Ant2 | Low | 2422 | -1.30 | -28.16 | ≤ -21.3 | PASS |
| | Ant1 | High | 2452 | -2.64 | -32.36 | ≤ -22.64 | PASS |
| | Ant2 | High | 2452 | -2.60 | -30.11 | ≤ -22.6 | PASS |

Test graphs as below:

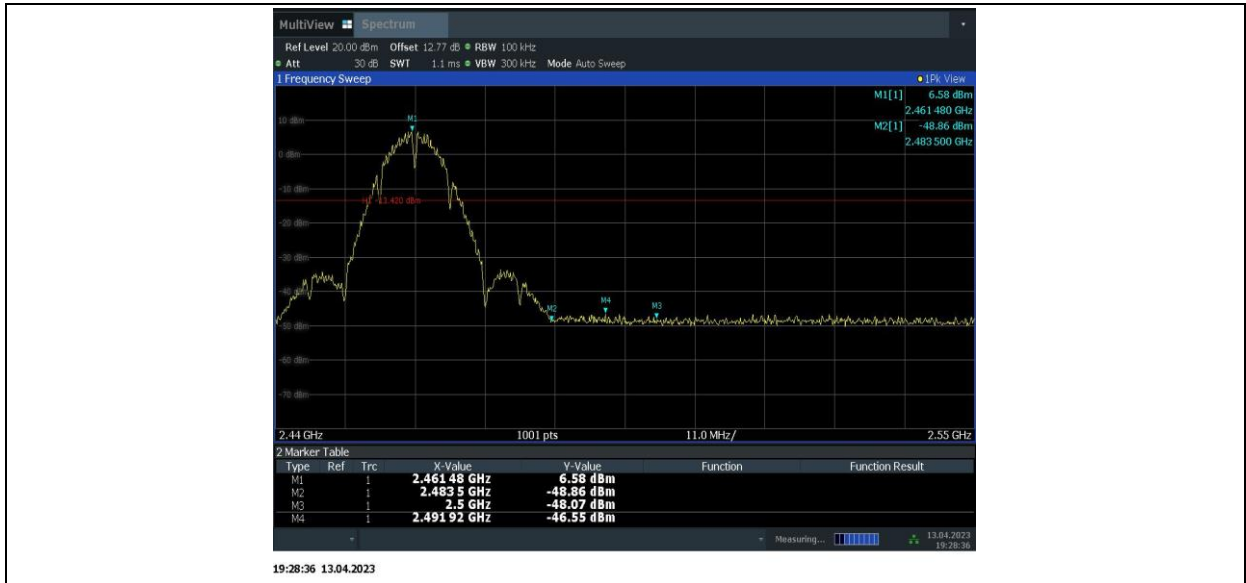




11B-CDD_Ant1_High_2462



11B-CDD_Ant2_High_2462



11G-CDD_Ant1_Low_2412



11G-CDD_Ant2_Low_2412



11G-CDD_Ant1_High_2462



11G-CDD_Ant2_High_2462



11BE20MIMO_Ant1_Low_2412



11BE20MIMO_Ant2_Low_2412



11BE20MIMO_Ant1_High_2462



11BE20MIMO_Ant2_High_2462



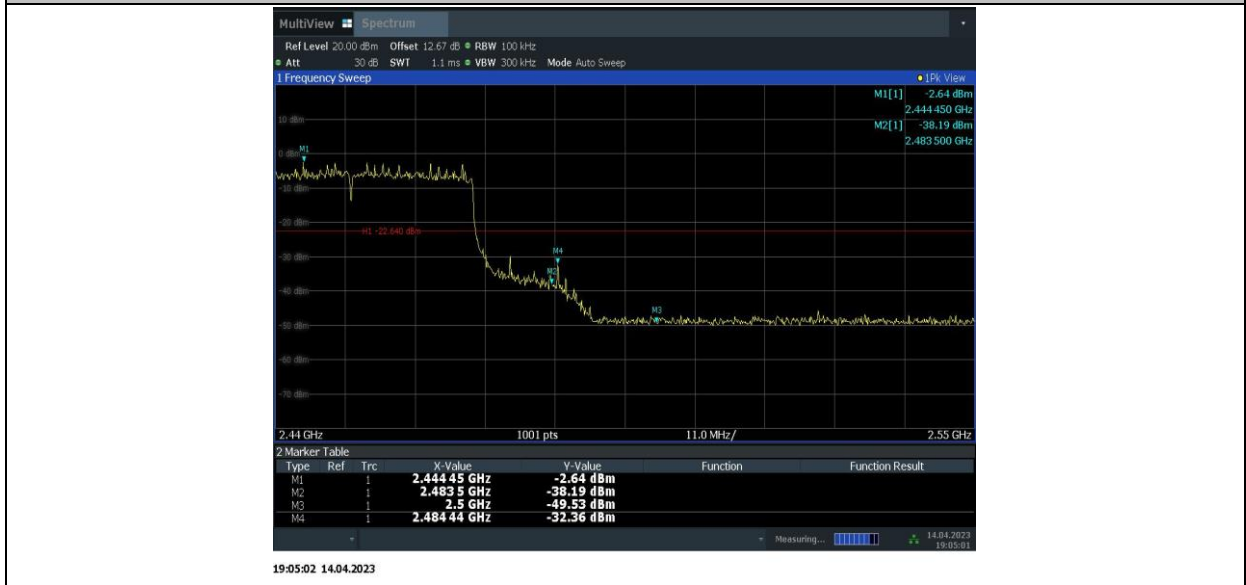
11BE40MIMO_Ant1_Low_2422



11BE40MIMO_Ant2_Low_2422



11BE40MIMO_Ant1_High_2452



11BE40MIMO_Ant2_High_2452



RU mode

Ant1 of the result table and result graph corresponds to ant5 of the EUT, ant2 of the result table and result graph corresponds to ant6 of the EUT.

| Test Mode | Antenna | Ch Name | Fre [MHz] | Ru Size | Ru Index | RefLevel [dBm] | Result [dBm] | Limit [dBm] | Verdict |
|-------------|---------|---------|-----------|---------|----------|----------------|--------------|-------------|---------|
| 11BE20 MIMO | Ant1 | Low | 2412 | 26Tone | RU0 | 3.89 | -31.44 | ≤-16.11 | PASS |
| | | | | | RU8 | 3.98 | -38.31 | ≤-16.02 | PASS |
| | | | | 52Tone | RU37 | 3.59 | -28.03 | ≤-16.41 | PASS |
| | | | | | RU40 | 3.88 | -34.65 | ≤-16.12 | PASS |
| | | | | 106Tone | RU53 | 4.49 | -26.2 | ≤-15.51 | PASS |
| | | | | | RU54 | 4.02 | -31.1 | ≤-15.98 | PASS |
| | Ant2 | Low | 2412 | 26Tone | RU0 | 3.52 | -32.9 | ≤-16.48 | PASS |
| | | | | | RU8 | 3.86 | -34.34 | ≤-16.14 | PASS |
| | | | | 52Tone | RU37 | 3.12 | -28.88 | ≤-16.88 | PASS |
| | | | | | RU40 | 4.10 | -32.31 | ≤-15.9 | PASS |
| | | | | 106Tone | RU53 | 4.15 | -27.17 | ≤-15.85 | PASS |
| | | | | | RU54 | 4.01 | -30.32 | ≤-15.99 | PASS |
| | Ant1 | High | 2462 | 26Tone | RU0 | 4.73 | -45.82 | ≤-15.27 | PASS |
| | | | | | RU8 | 3.18 | -46.36 | ≤-16.82 | PASS |
| | | | | 52Tone | RU37 | 4.44 | -45.52 | ≤-15.56 | PASS |
| | | | | | RU40 | 4.12 | -45.83 | ≤-15.88 | PASS |
| | | | | 106Tone | RU53 | 4.65 | -42.63 | ≤-15.35 | PASS |
| | | | | | RU54 | 7.36 | -41.9 | ≤-12.64 | PASS |
| | Ant2 | High | 2462 | 26Tone | RU0 | 4.46 | -46.06 | ≤-15.54 | PASS |
| | | | | | RU8 | 3.22 | -45.37 | ≤-16.78 | PASS |
| 52Tone | | | | RU37 | 4.04 | -42.7 | ≤-15.96 | PASS | |
| | | | | RU40 | 3.96 | -40.1 | ≤-16.04 | PASS | |

| | | | | | | | | | |
|--|--|--|--|---------|------|------|--------|---------|------|
| | | | | 106Tone | RU53 | 3.62 | -38.38 | ≤-16.38 | PASS |
| | | | | | RU54 | 3.51 | -37.58 | ≤-16.49 | PASS |

Test graphs as below:





11BE20MIMO_Ant1_Low_2412_52Tone_RU40



11BE20MIMO_Ant1_Low_2412_106Tone_RU53



11BE20MIMO_Ant1_Low_2412_106Tone_RU54



11BE20MIMO_Ant2_Low_2412_26Tone_RU0



11BE20MIMO_Ant2_Low_2412_26Tone_RU8



11BE20MIMO_Ant2_Low_2412_52Tone_RU37



11BE20MIMO_Ant2_Low_2412_52Tone_RU40



11BE20MIMO_Ant2_Low_2412_106Tone_RU53



11BE20MIMO_Ant2_Low_2412_106Tone_RU54



11BE20MIMO_Ant1_High_2462_26Tone_RU0



11BE20MIMO_Ant1_High_2462_26Tone_RU8



11BE20MIMO_Ant1_High_2462_52Tone_RU37



11BE20MIMO_Ant1_High_2462_52Tone_RU40



11BE20MIMO_Ant1_High_2462_106Tone_RU53



11BE20MIMO_Ant1_High_2462_106Tone_RU54



11BE20MIMO_Ant2_High_2462_26Tone_RU0



11BE20MIMO_Ant2_High_2462_26Tone_RU8



11BE20MIMO_Ant2_High_2462_52Tone_RU37