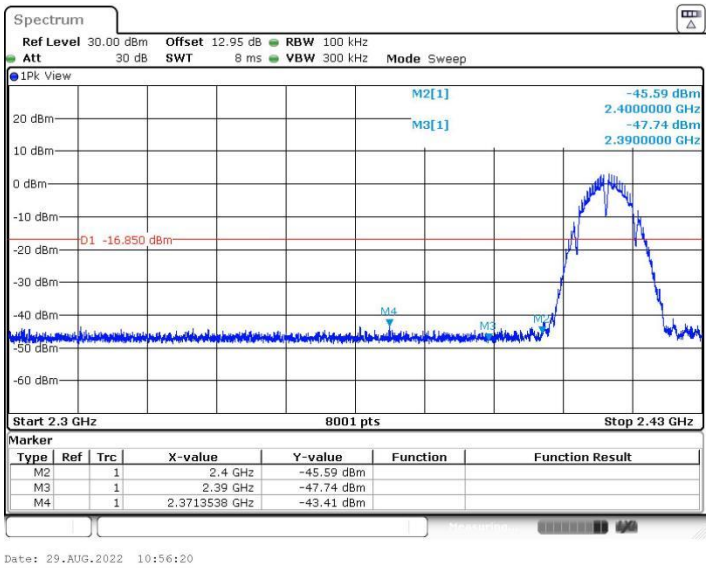
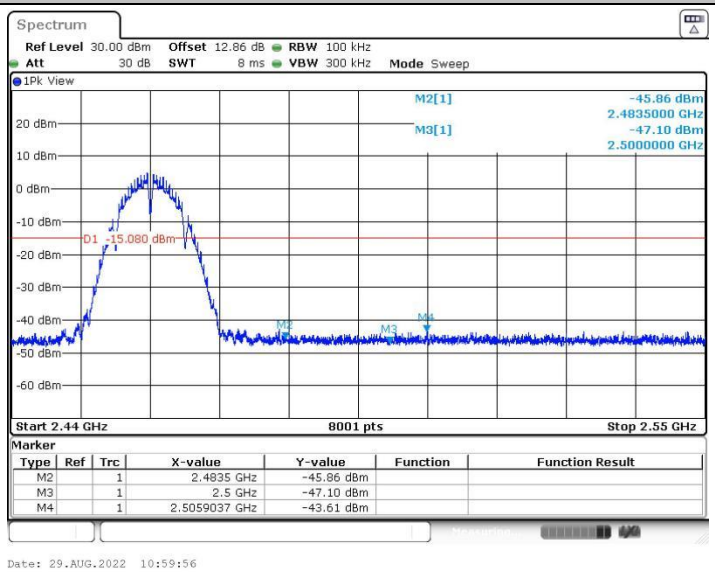
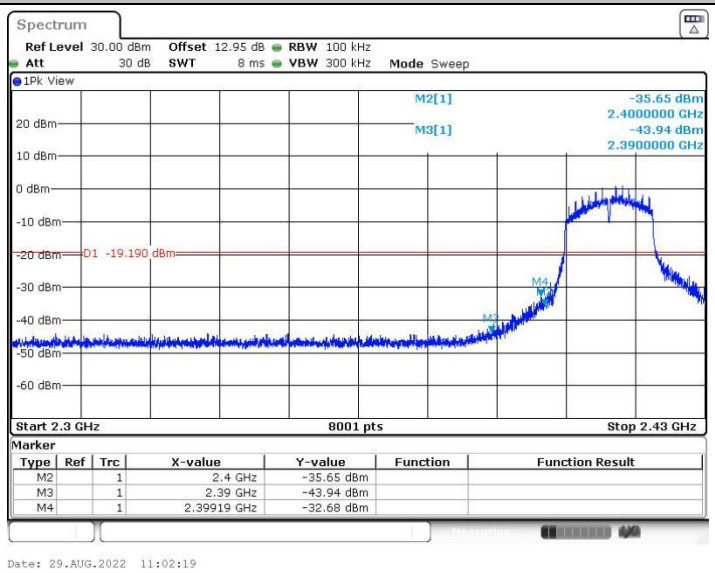
## Test Graphs

11B_Ant1_Low_2412




11B_Ant1_High_2462



| 11G_Ant1_Low_2412 |
|---|
|  |



| 11G_Ant1_Low_2417 |
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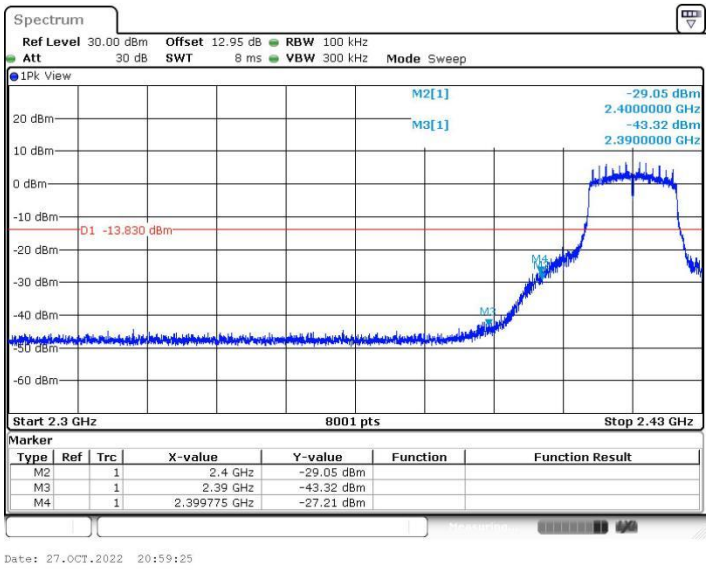
|  |

| 11G_Ant1_High_2462 |
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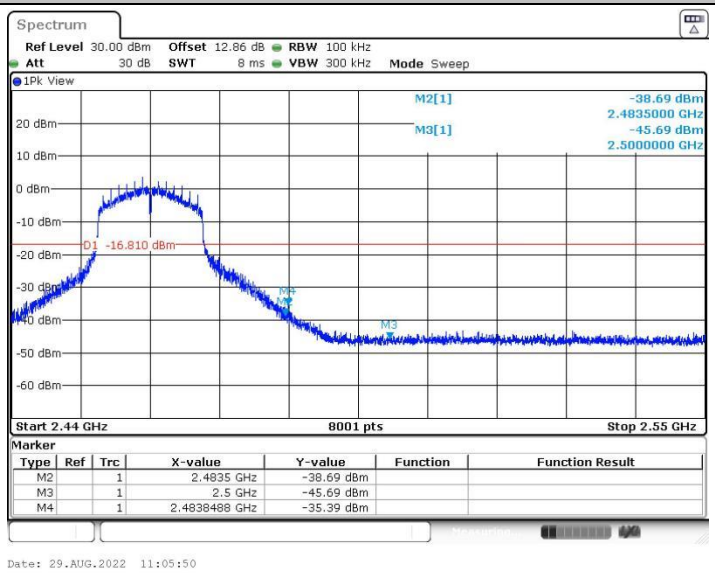
|  |



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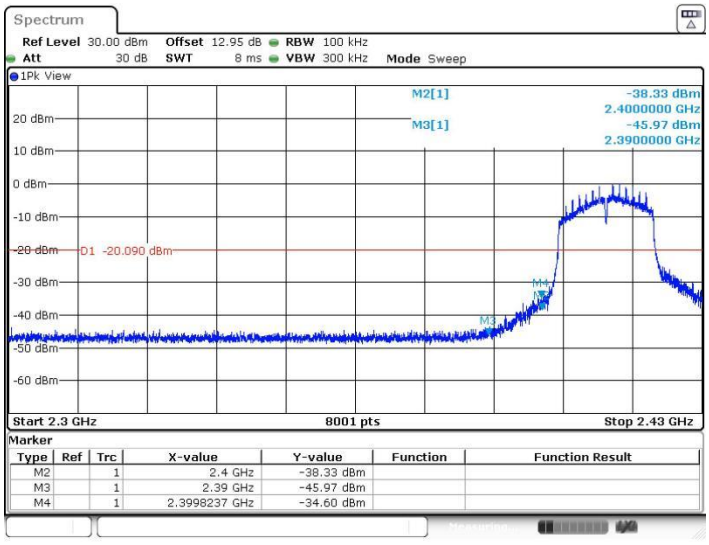
|  |

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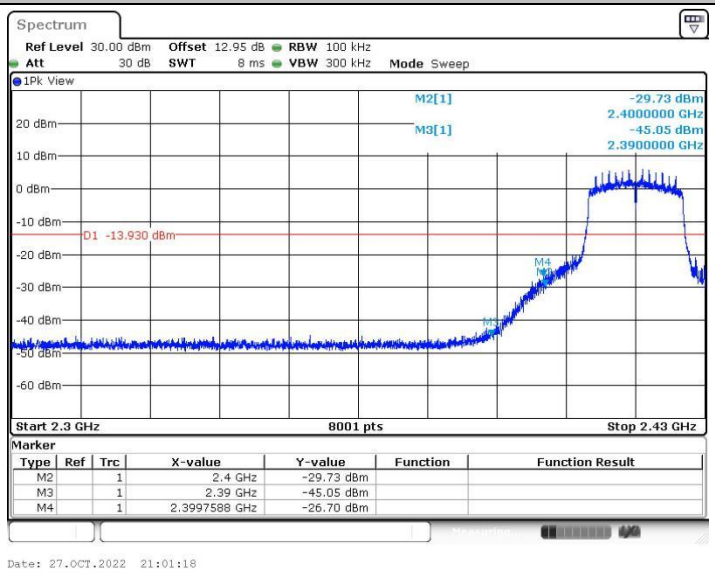
|  |



| 11N20SISO_Ant1_High_2462 |
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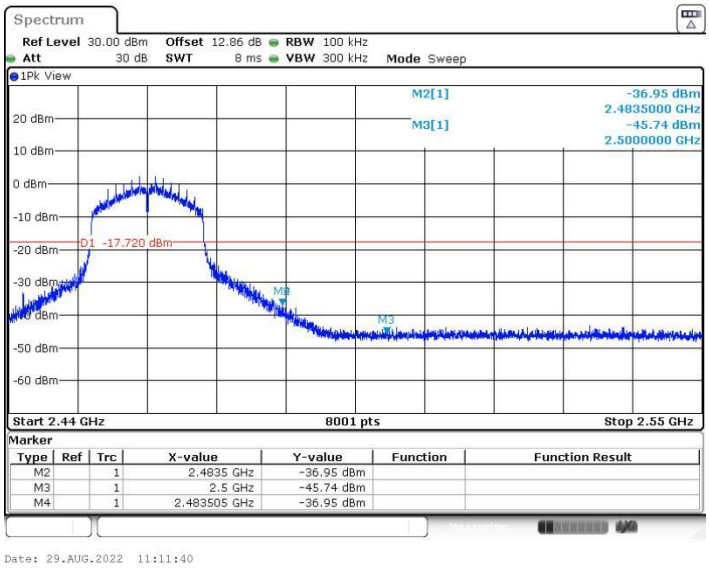
|  |

| 11N40SISO_Ant1_Low_2422 |
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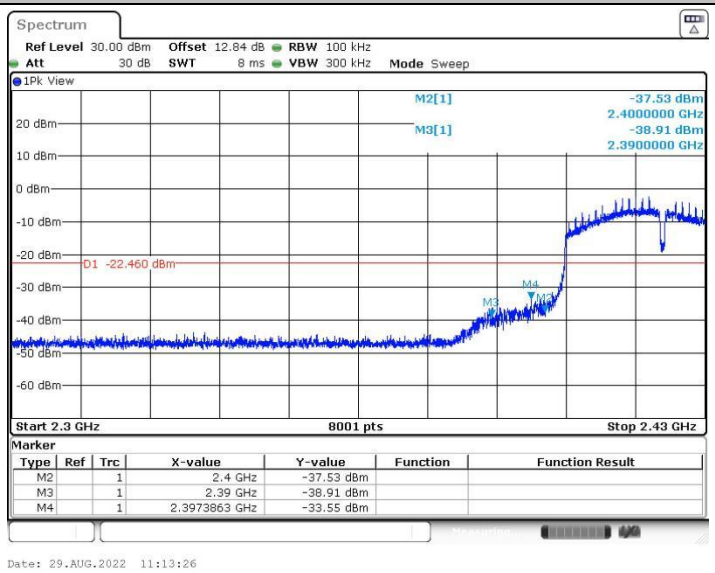
|  |



| 11N40SISO_Ant1_High_2452 |
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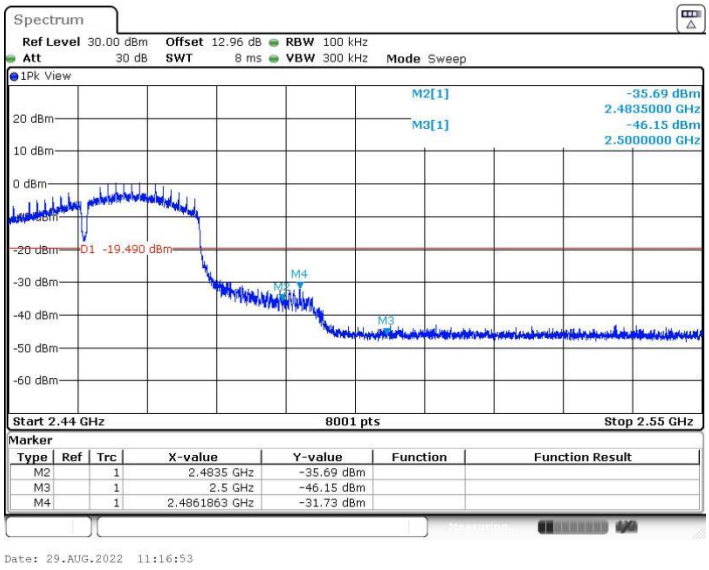
|  |

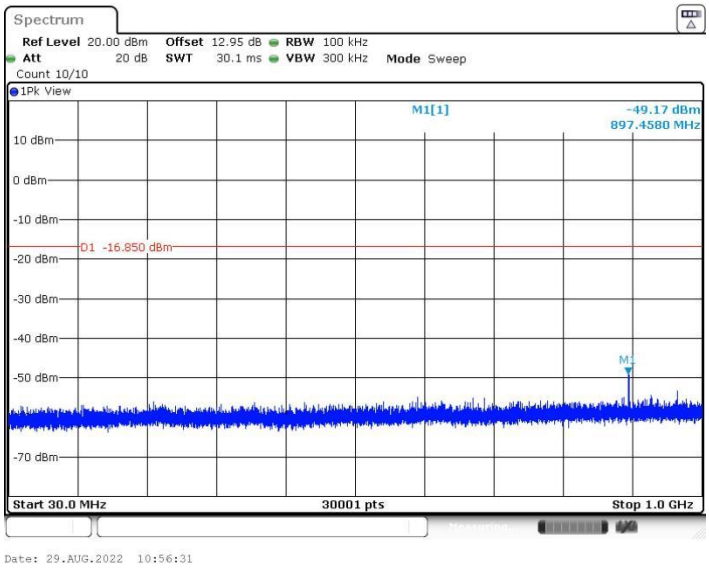
# Conducted Spurious Emission

## Test Result

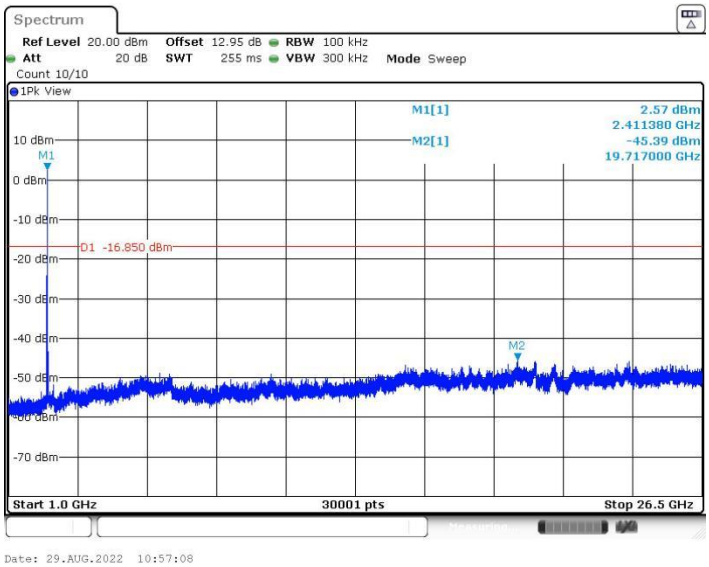
| TestMode | Antenna | Freq(MHz) | FreqRange [Mhz] | RefLevel [dBm/100KHz] | Result [dBm/100KHz] | Limit [dBm/100KHz] | Verdict |
|---|---|---|---|---|---|---|---|
| 11B | Ant1 | 2412 | 30~1000 | 3.15 | -49.17 | ≤-16.85 | PASS |
| | | | 1000~26500 | 3.15 | -45.39 | ≤-16.85 | PASS |
| | | 2437 | 30~1000 | 4.77 | -55.18 | ≤-15.23 | PASS |
| | | | 1000~26500 | 4.77 | -44.39 | ≤-15.23 | PASS |
| | | 2462 | 30~1000 | 4.92 | -54.64 | ≤-15.08 | PASS |
| | | | 1000~26500 | 4.92 | -45.74 | ≤-15.08 | PASS |
| 11G | Ant1 | 2412 | 30~1000 | 0.81 | -39.16 | ≤-19.19 | PASS |
| | | | 1000~26500 | 0.81 | -45.98 | ≤-19.19 | PASS |
| | | 2417 | 30~1000 | 6.17 | -55.12 | ≤-13.83 | PASS |
| | | | 1000~26500 | 6.17 | -45.96 | ≤-13.83 | PASS |
| | | 2437 | 30~1000 | 6.78 | -47.12 | ≤-13.22 | PASS |
| | | | 1000~26500 | 6.78 | -46.31 | ≤-13.22 | PASS |
| | | 2462 | 30~1000 | 3.19 | -54.43 | ≤-16.81 | PASS |
| | | | 1000~26500 | 3.19 | -45.29 | ≤-16.81 | PASS |
| 11N20SISO | Ant1 | 2412 | 30~1000 | -0.09 | -54.1 | ≤-20.09 | PASS |
| | | | 1000~26500 | -0.09 | -45.8 | ≤-20.09 | PASS |
| | | 2417 | 30~1000 | 6.07 | -45.87 | ≤-13.93 | PASS |
| | | | 1000~26500 | 6.07 | -46.4 | ≤-13.93 | PASS |
| | | 2437 | 30~1000 | 5.68 | -41.45 | ≤-14.32 | PASS |
| | | | 1000~26500 | 5.68 | -45.59 | ≤-14.32 | PASS |
| | | 2462 | 30~1000 | 2.28 | -54.9 | ≤-17.72 | PASS |
| | | | 1000~26500 | 2.28 | -45.61 | ≤-17.72 | PASS |
| 11N40SISO | Ant1 | 2422 | 30~1000 | -2.46 | -54.56 | ≤-22.46 | PASS |
| | | | 1000~26500 | -2.46 | -45.04 | ≤-22.46 | PASS |
| | | 2437 | 30~1000 | -3.25 | -55.37 | ≤-23.25 | PASS |
| | | | 1000~26500 | -3.25 | -45.58 | ≤-23.25 | PASS |
| | | 2452 | 30~1000 | 0.51 | -54.78 | ≤-19.49 | PASS |
| | | | 1000~26500 | 0.51 | -45.9 | ≤-19.49 | PASS |

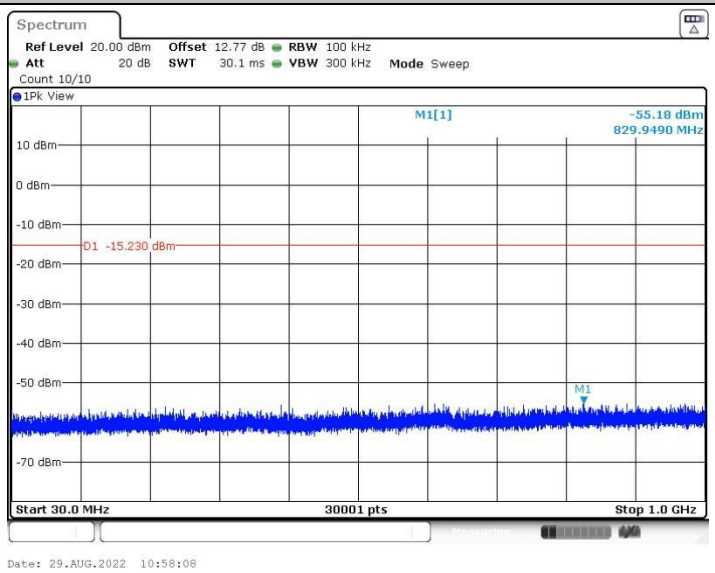
## Test Graphs

11B_Ant1_2412_30~1000




11B_Ant1_2412_1000~26500



| 11B_Ant1_2437_30~1000 |
|---|
|  |
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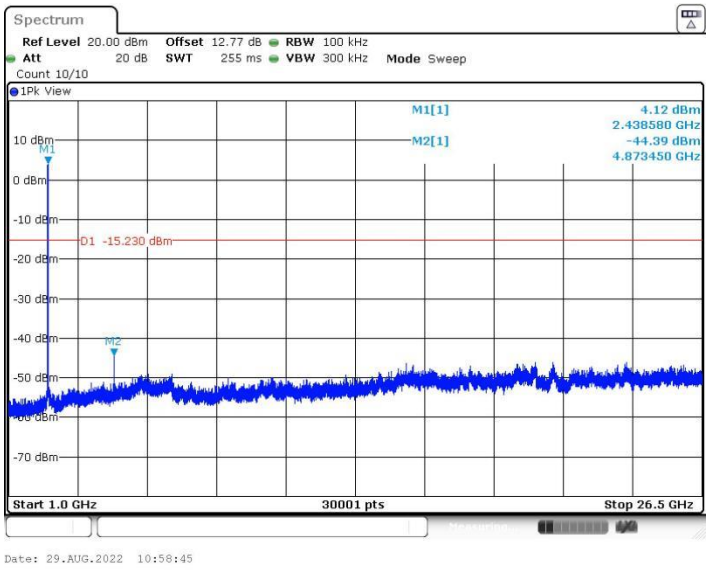
|  |

| 11B_Ant1_2462_30~1000 |
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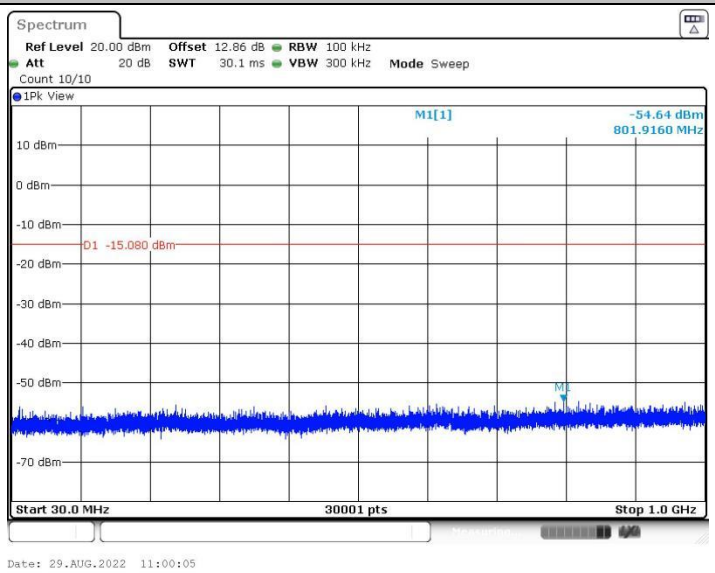
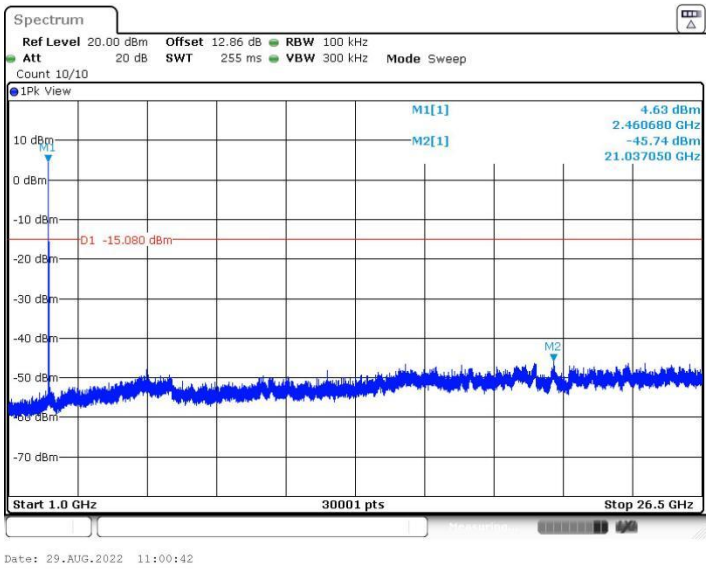
|  |
| 11B_Ant1_2462_1000~26500 |
|  |

| 11G_Ant1_2412_30~1000 |
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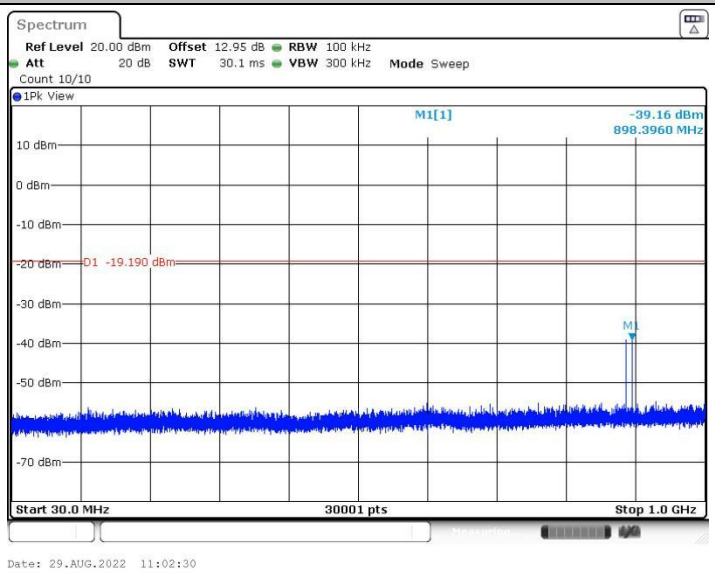
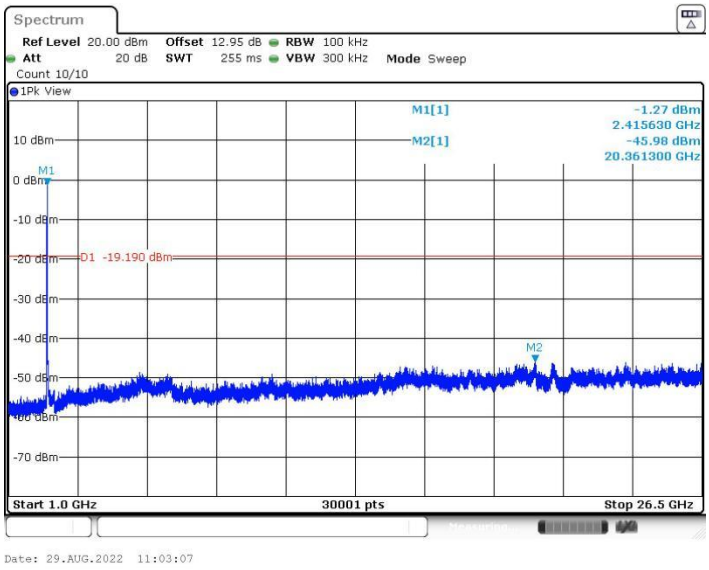
|  |
| 11G_Ant1_2412_1000~26500 |
|  |

| 11G_Ant1_2417_30~1000 |
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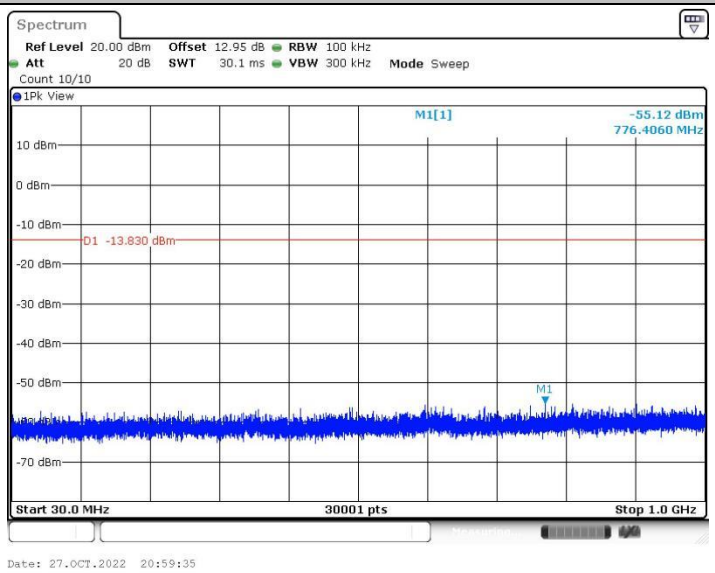
|  |
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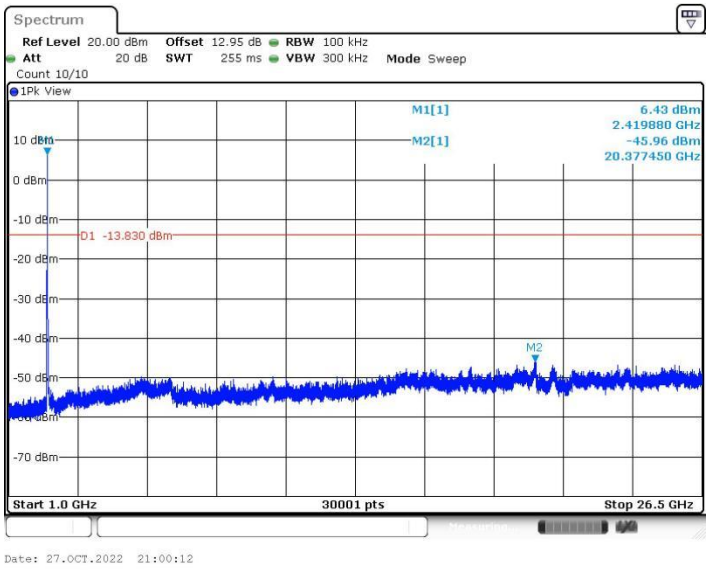
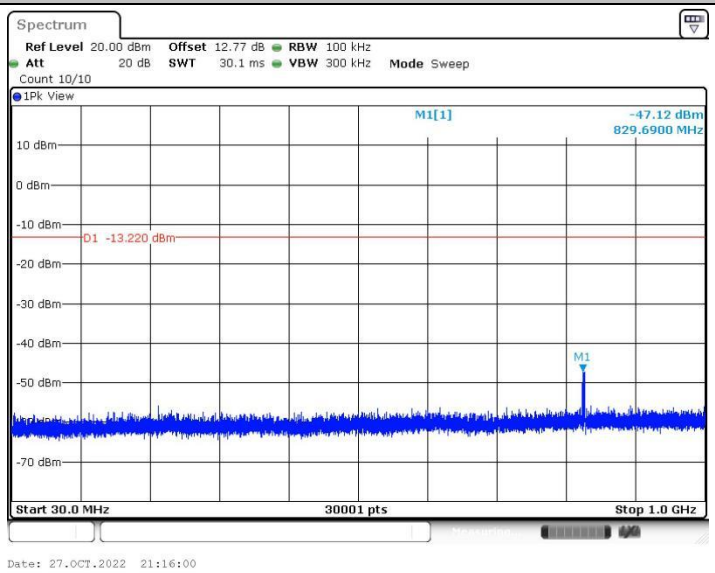
|  |

| 11G_Ant1_2437_30~1000 |
| --- |
|  |
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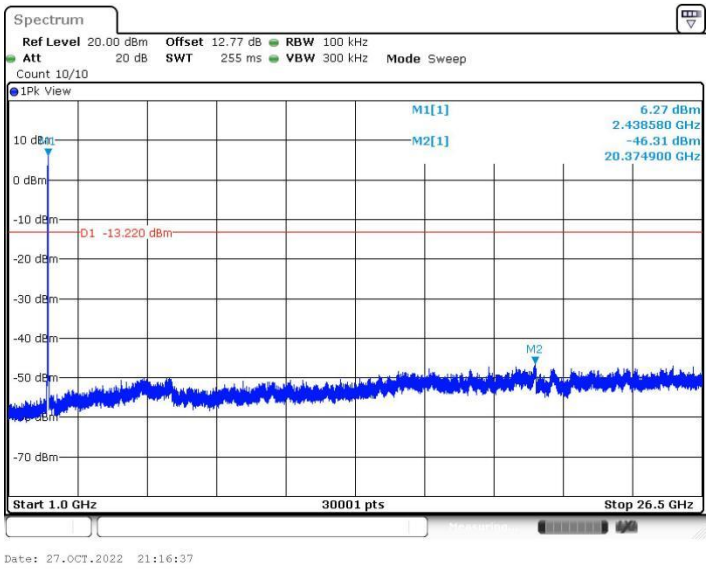
|  |

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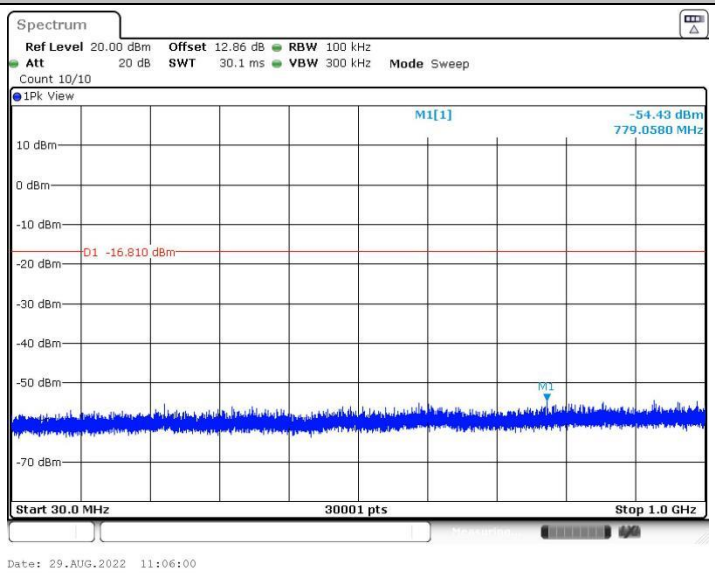
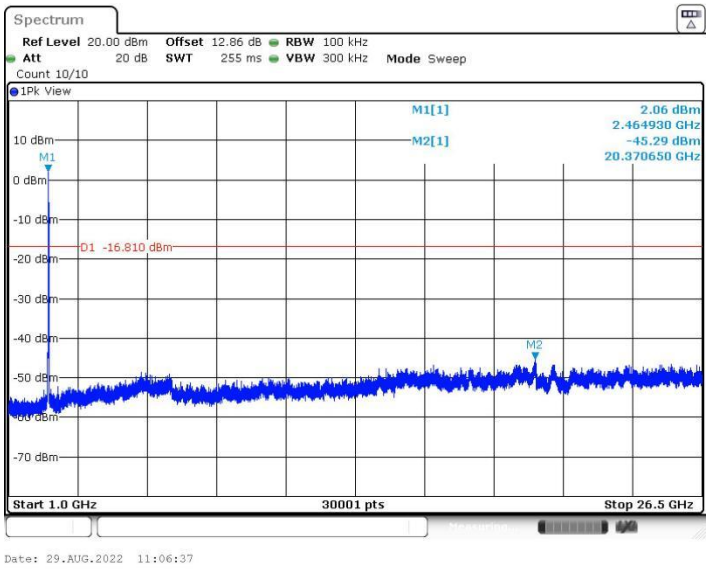
|  |
| 11G_Ant1_2462_1000~26500 |
|  |

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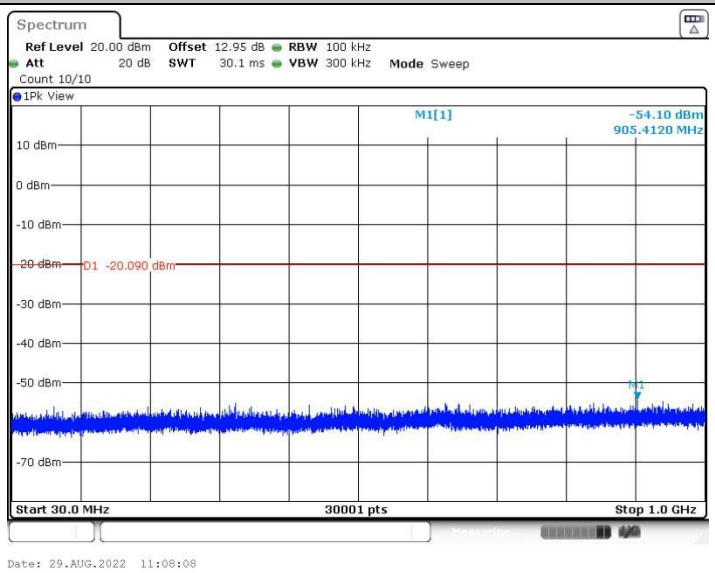
|  |
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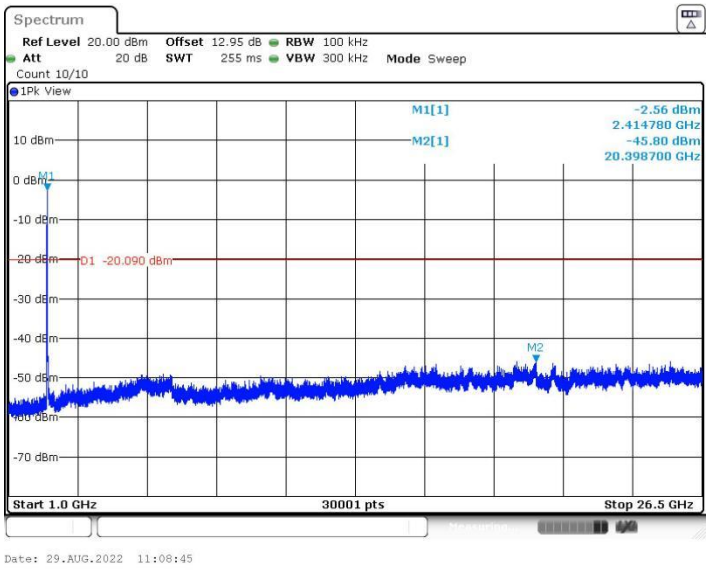
|  |

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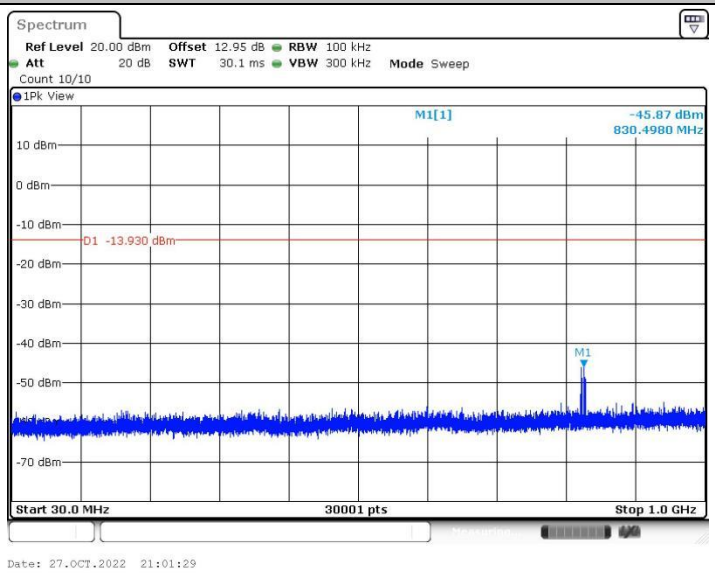
|  |
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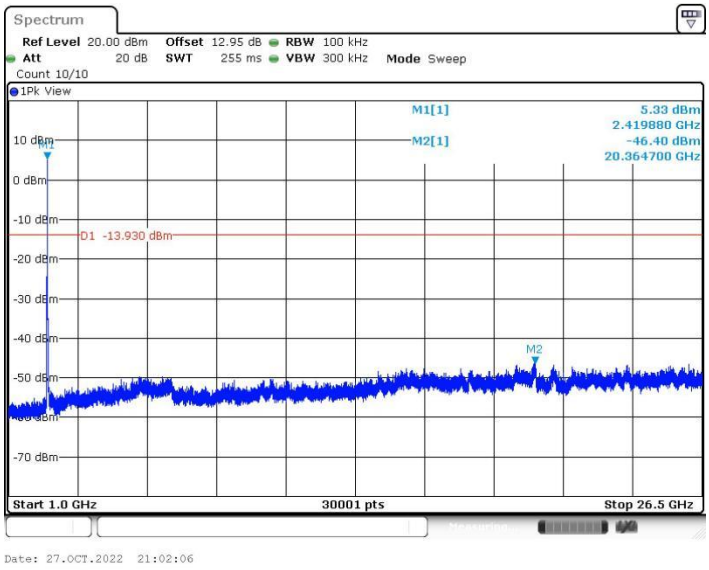
|  |

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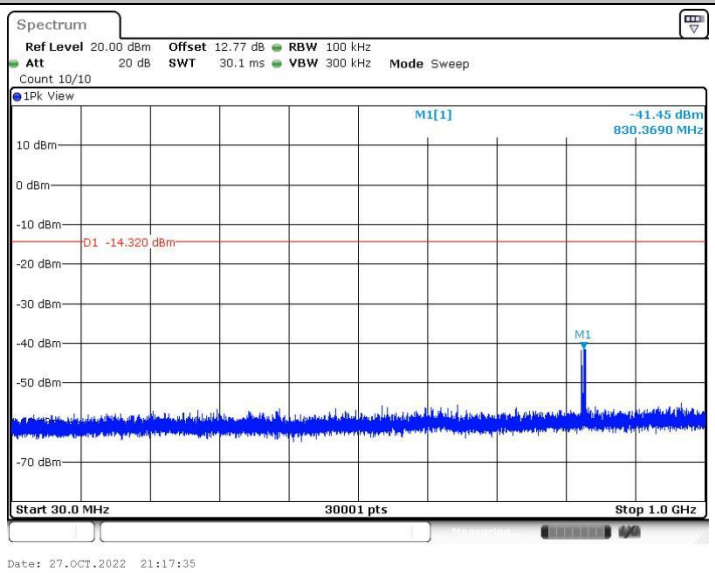
|  |
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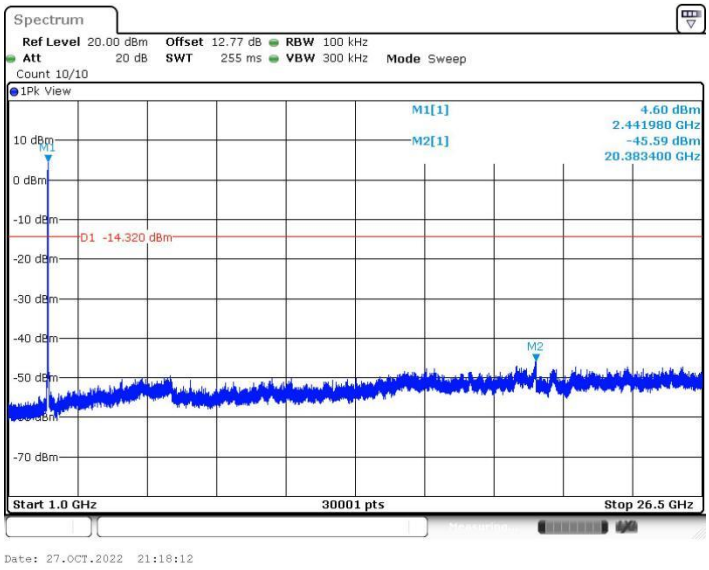
|  |

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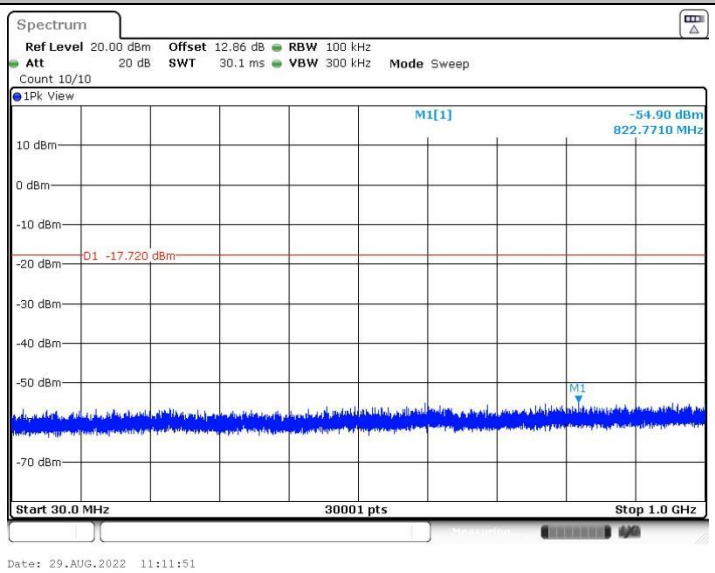
|  |
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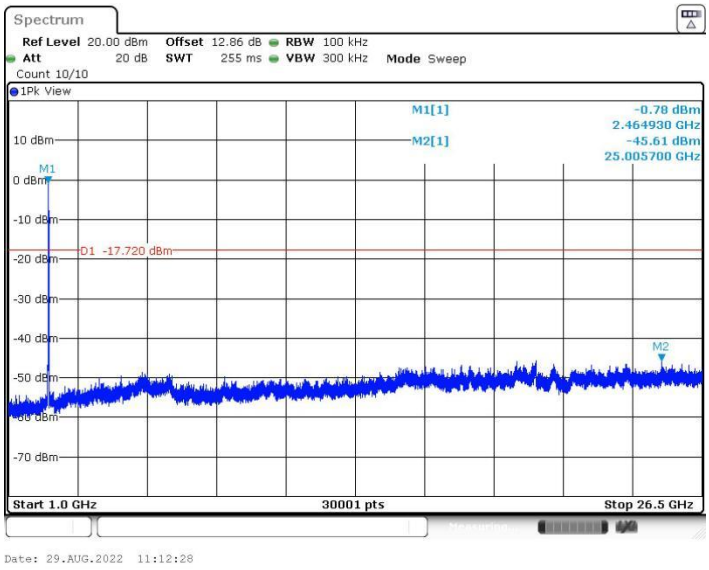
|  |

| 11N40SISO_Ant1_2422_30~1000 |
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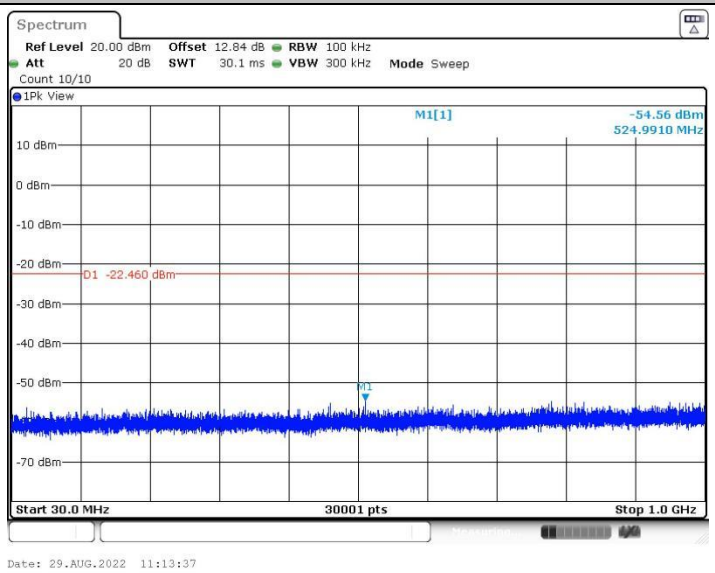
|  |
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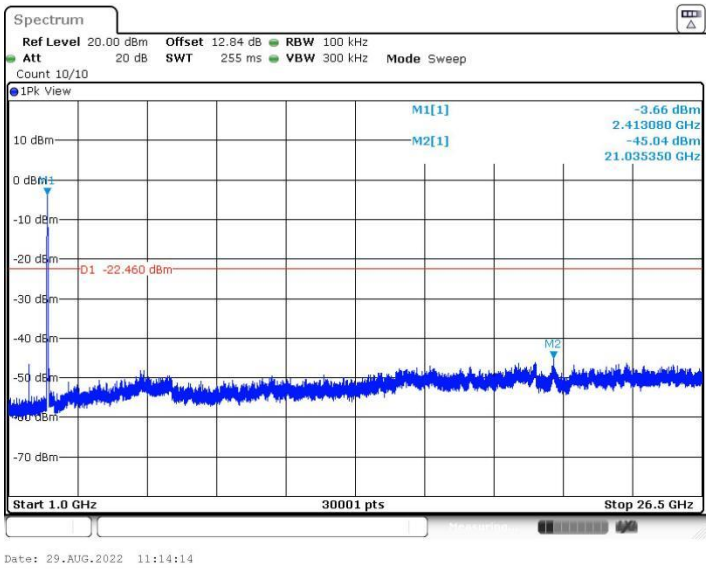
|  |

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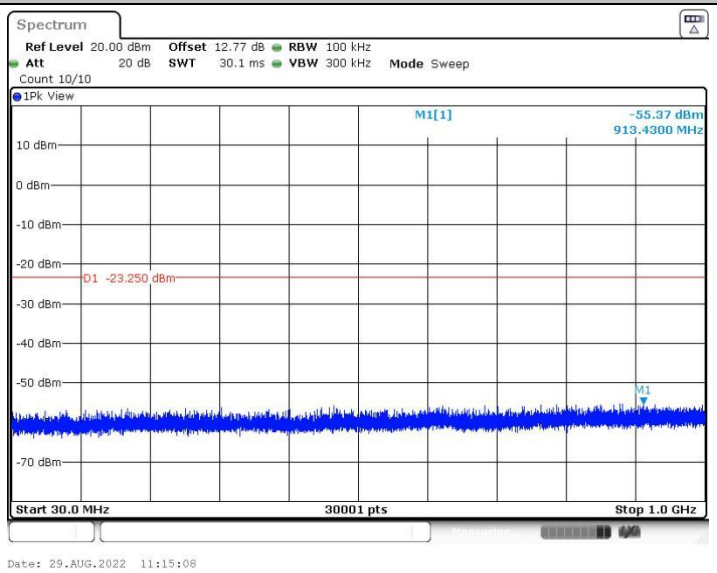
|  |
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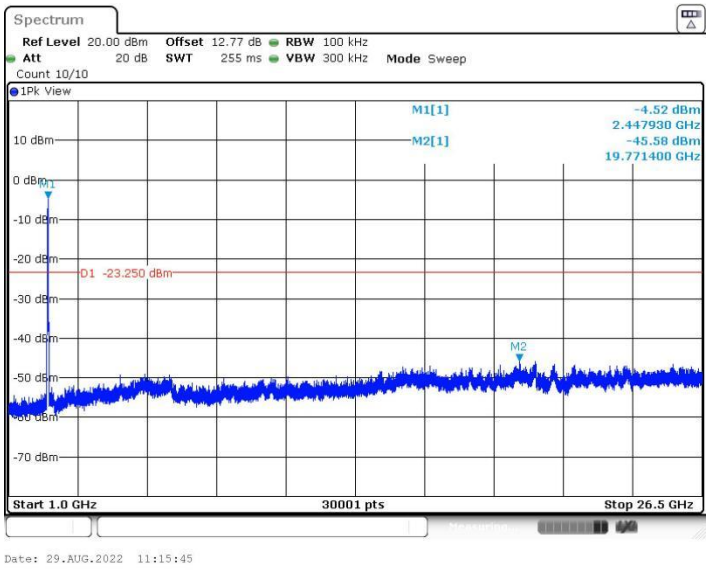
|  |

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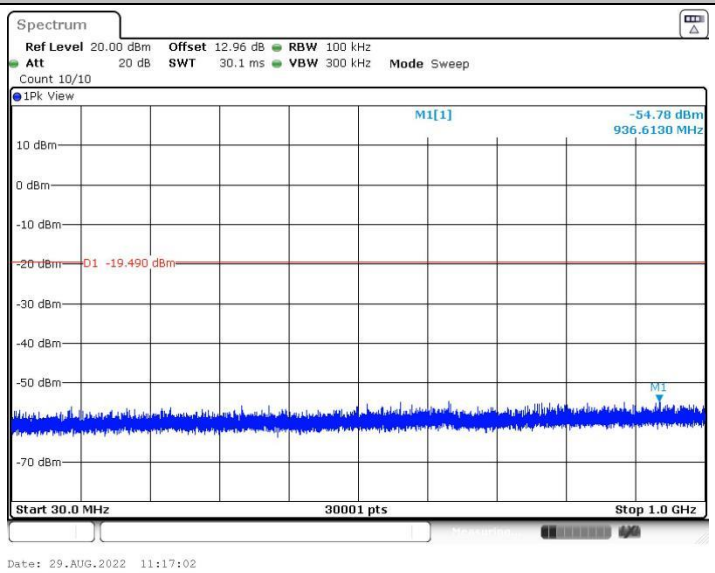
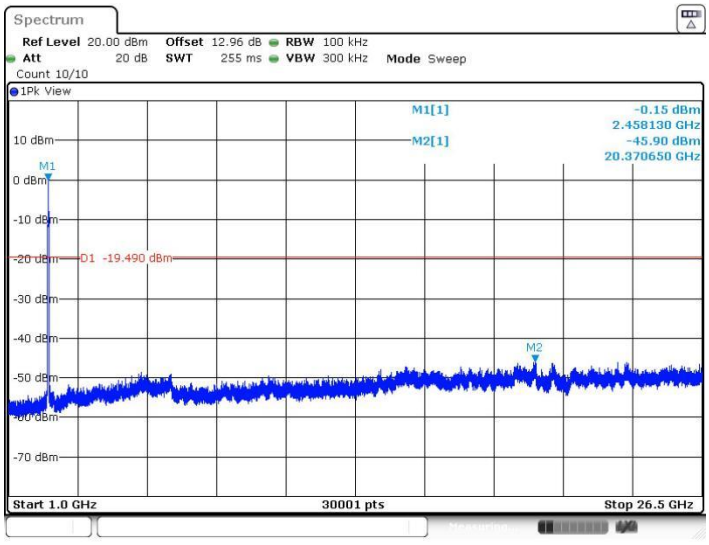
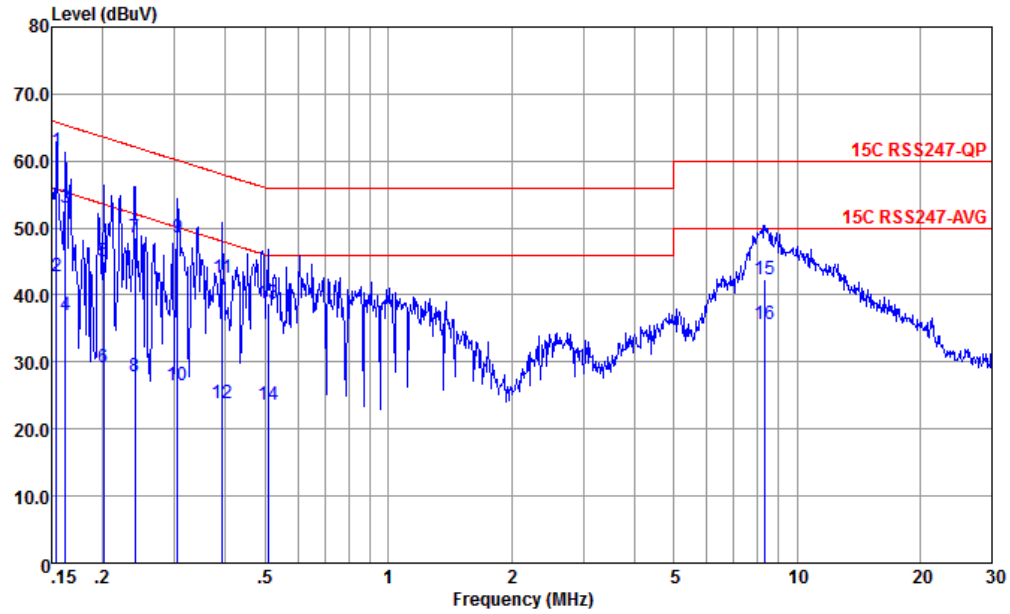



11N40SISO_Ant1_2452_1000~26500



# Appendix B. AC Conducted Emission Test Results

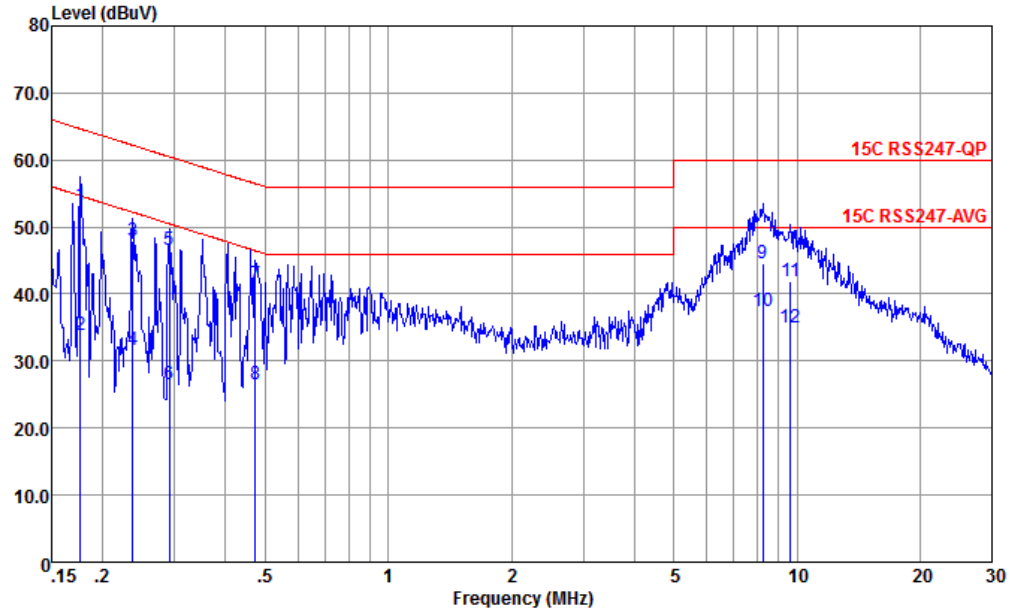
| | | | |
|---|---|---|---|
| **Test Engineer :** | Amos zhang | **Temperature :** | 25.3~26.2℃ |
| | | **Relative Humidity :** | 38~40% |
| **Test Voltage :** | 120Vac / 60Hz | **Phase :** | Line |
| **Remark :** | All emissions not reported here are more than 10 dB below the prescribed limit. | | |




Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-LINE LINE

| | | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 | * | 0.154 | 61.59 | -4.19 | 65.78 | 51.09 | 0.07 | 10.43 | QP |
| 2 | | 0.154 | 42.69 | -13.09 | 55.78 | 32.19 | 0.07 | 10.43 | Average |
| 3 | | 0.162 | 53.08 | -12.26 | 65.34 | 42.59 | 0.06 | 10.43 | QP |
| 4 | | 0.162 | 37.08 | -18.26 | 55.34 | 26.59 | 0.06 | 10.43 | Average |
| 5 | | 0.201 | 45.04 | -18.54 | 63.58 | 34.60 | 0.02 | 10.42 | QP |
| 6 | | 0.201 | 29.24 | -24.34 | 53.58 | 18.80 | 0.02 | 10.42 | Average |
| 7 | | 0.240 | 48.63 | -13.45 | 62.08 | 38.20 | 0.04 | 10.39 | QP |
| 8 | | 0.240 | 27.93 | -24.15 | 52.08 | 17.50 | 0.04 | 10.39 | Average |
| 9 | | 0.305 | 48.60 | -11.50 | 60.10 | 38.19 | 0.06 | 10.35 | QP |
| 10 | | 0.305 | 26.60 | -23.50 | 50.10 | 16.19 | 0.06 | 10.35 | Average |
| 11 | | 0.393 | 42.51 | -15.48 | 57.99 | 32.20 | 0.01 | 10.30 | QP |
| 12 | | 0.393 | 23.91 | -24.08 | 47.99 | 13.60 | 0.01 | 10.30 | Average |
| 13 | | 0.507 | 38.67 | -17.33 | 56.00 | 28.49 | -0.03 | 10.21 | QP |
| 14 | | 0.507 | 23.67 | -22.33 | 46.00 | 13.49 | -0.03 | 10.21 | Average |
| 15 | | 8.367 | 42.39 | -17.61 | 60.00 | 32.10 | -0.16 | 10.45 | QP |
| 16 | | 8.367 | 35.59 | -14.41 | 50.00 | 25.30 | -0.16 | 10.45 | Average |

| | | | |
|---|---|---|---|
| **Test Engineer :** | Amos zhang | **Temperature :** | 25.3~26.2℃ |
| | | **Relative Humidity :** | 38~40% |
| **Test Voltage :** | 120Vac / 60Hz | **Phase :** | Neutral |
| **Remark :** | All emissions not reported here are more than 10 dB below the prescribed limit. | | |




Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-NEUTRAL NEUTRAL

| | | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 | * | 0.177 | 53.27 | -11.37 | 64.64 | 42.81 | 0.04 | 10.42 | QP |
| 2 | | 0.177 | 33.77 | -20.87 | 54.64 | 23.31 | 0.04 | 10.42 | Average |
| 3 | | 0.237 | 47.90 | -14.32 | 62.22 | 37.50 | 0.01 | 10.39 | QP |
| 4 | | 0.237 | 31.60 | -20.62 | 52.22 | 21.20 | 0.01 | 10.39 | Average |
| 5 | | 0.291 | 46.51 | -13.99 | 60.50 | 36.20 | -0.04 | 10.35 | QP |
| 6 | | 0.291 | 26.61 | -23.89 | 50.50 | 16.30 | -0.04 | 10.35 | Average |
| 7 | | 0.474 | 41.35 | -15.10 | 56.45 | 31.20 | -0.08 | 10.23 | QP |
| 8 | | 0.474 | 26.45 | -20.00 | 46.45 | 16.30 | -0.08 | 10.23 | Average |
| 9 | | 8.235 | 44.48 | -15.52 | 60.00 | 34.20 | -0.15 | 10.43 | QP |
| 10 | | 8.235 | 37.48 | -12.52 | 50.00 | 27.20 | -0.15 | 10.43 | Average |
| 11 | | 9.654 | 41.92 | -18.08 | 60.00 | 31.50 | -0.18 | 10.60 | QP |
| 12 | | 9.654 | 34.92 | -15.08 | 50.00 | 24.50 | -0.18 | 10.60 | Average |

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)

# Appendix C. Radiated Spurious Emission

### Sample 1-2.4GHz 2400~2483.5MHz

### WIFI 802.11b (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Path | Preamp | Ant | Table | Peak | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | ( MHz ) | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | ( dBµV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11b CH 01 2412MHz | | 2386.57 | 53.45 | -20.55 | 74 | 50.46 | 32.4 | 7.1 | 36.51 | 213 | 100 | P | H |
| | | 2386.05 | 46.7 | -7.3 | 54 | 43.71 | 32.4 | 7.1 | 36.51 | 213 | 100 | A | H |
| | * | 2412 | 107.6 | - | - | 104.69 | 32.39 | 7.13 | 36.61 | 213 | 100 | P | H |
| | * | 2410 | 105.28 | - | - | 102.37 | 32.39 | 7.13 | 36.61 | 213 | 100 | A | H |
| | | 2386.05 | 51.31 | -22.69 | 74 | 48.32 | 32.4 | 7.1 | 36.51 | 400 | 70 | P | V |
| | | 2386.44 | 43.61 | -10.39 | 54 | 40.62 | 32.4 | 7.1 | 36.51 | 400 | 70 | A | V |
| | * | 2412 | 104.94 | - | - | 102.03 | 32.39 | 7.13 | 36.61 | 400 | 70 | P | V |
| | * | 2412 | 102.6 | - | - | 99.69 | 32.39 | 7.13 | 36.61 | 400 | 70 | A | V |
| 802.11b CH 11 2462MHz | * | 2462 | 106.69 | - | - | 104.03 | 32.36 | 7.22 | 36.92 | 131 | 148 | P | H |
| | * | 2462 | 104.29 | - | - | 101.63 | 32.36 | 7.22 | 36.92 | 131 | 148 | P | H |
| | | 2486.92 | 51.03 | -22.97 | 74 | 48.46 | 32.34 | 7.25 | 37.02 | 131 | 148 | P | H |
| | | 2486.92 | 42.59 | -11.41 | 54 | 40.02 | 32.34 | 7.25 | 37.02 | 131 | 148 | A | H |
| | * | 2462 | 105.75 | - | - | 103.09 | 32.36 | 7.22 | 36.92 | 344 | 66 | P | V |
| | * | 2462 | 103.4 | - | - | 100.74 | 32.36 | 7.22 | 36.92 | 344 | 66 | P | V |
| | | 2487.1 | 50.34 | -23.66 | 74 | 47.77 | 32.34 | 7.25 | 37.02 | 344 | 66 | P | V |
| | | 2487.1 | 41.09 | -12.91 | 54 | 38.52 | 32.34 | 7.25 | 37.02 | 344 | 66 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## Sample 1-2.4GHz 2400~2483.5MHz

## WIFI 802.11b (Harmonic @ 3m)

| WIFI Ant. 1 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11b CH 01 2412MHz | | 4830 | 49.51 | -24.49 | 74 | 70.52 | 34 | 10.25 | 65.26 | 100 | 244 | P | H |
| | | 4830 | 47.14 | -6.86 | 54 | 68.15 | 34 | 10.25 | 65.26 | 100 | 244 | A | H |
| | | 4830 | 50.48 | -23.52 | 74 | 71.49 | 34 | 10.25 | 65.26 | 102 | 62 | P | V |
| | | 4830 | 47.31 | -6.69 | 54 | 68.32 | 34 | 10.25 | 65.26 | 102 | 62 | A | V |
| 802.11b CH 06 2437MHz | | 4875 | 46.82 | -27.18 | 74 | 67.81 | 34 | 10.29 | 65.28 | 300 | 0 | P | H |
| | | 7305 | 41.15 | -32.85 | 74 | 59.35 | 35.76 | 12.72 | 66.68 | 300 | 0 | P | H |
| | | 4875 | 48.34 | -25.66 | 74 | 69.33 | 34 | 10.29 | 65.28 | 100 | 0 | P | V |
| | | 7305 | 41.71 | -32.29 | 74 | 59.91 | 35.76 | 12.72 | 66.68 | 100 | 0 | P | V |
| 802.11b CH 11 2462MHz | | 4920 | 47.78 | -26.22 | 74 | 68.74 | 34 | 10.34 | 65.3 | 300 | 0 | P | H |
| | | 7380 | 41.69 | -32.31 | 74 | 60.09 | 35.78 | 12.73 | 66.91 | 300 | 0 | P | H |
| | | 4920 | 51.35 | -22.65 | 74 | 72.31 | 34 | 10.34 | 65.3 | 112 | 350 | P | V |
| | | 4920 | 49.34 | -4.66 | 54 | 70.3 | 34 | 10.34 | 65.3 | 112 | 350 | A | V |
| | | 7380 | 40.66 | -33.34 | 74 | 59.06 | 35.78 | 12.73 | 66.91 | 100 | 0 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## Sample 1-2.4GHz 2400~2483.5MHz

## WIFI 802.11g (Band Edge @ 3m)

| WIFI Ant. 1 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11g CH 01 2412MHz | | 2389.82 | 66.77 | -7.23 | 74 | 63.78 | 32.4 | 7.1 | 36.51 | 131 | 87 | P | H |
| | | 2389.95 | 49.92 | -4.08 | 54 | 46.93 | 32.4 | 7.1 | 36.51 | 131 | 87 | A | H |
| | * | 2410 | 106.02 | - | - | 103.11 | 32.39 | 7.13 | 36.61 | 131 | 87 | P | H |
| | * | 2408 | 98.69 | - | - | 95.78 | 32.39 | 7.13 | 36.61 | 131 | 87 | A | H |
| | | 2389.95 | 61.6 | -12.4 | 74 | 58.61 | 32.4 | 7.1 | 36.51 | 397 | 73 | P | V |
| | | 2389.95 | 46.92 | -7.08 | 54 | 43.93 | 32.4 | 7.1 | 36.51 | 397 | 73 | A | V |
| | * | 2410 | 102.52 | - | - | 99.61 | 32.39 | 7.13 | 36.61 | 397 | 73 | P | V |
| | * | 2406 | 96.49 | - | - | 93.58 | 32.39 | 7.13 | 36.61 | 397 | 73 | A | V |
| 802.11g CH 02 2417MHz | | 2388.39 | 63.89 | -10.11 | 74 | 60.9 | 32.4 | 7.1 | 36.51 | 152 | 114 | P | H |
| | | 2389.43 | 47.43 | -6.57 | 54 | 44.44 | 32.4 | 7.1 | 36.51 | 152 | 114 | A | H |
| | | 2418 | 108.78 | - | - | 105.84 | 32.39 | 7.16 | 36.61 | 152 | 114 | P | H |
| | | 2416 | 101.33 | - | - | 98.39 | 32.39 | 7.16 | 36.61 | 152 | 114 | A | H |
| | | 2388.52 | 57.59 | -16.41 | 74 | 54.6 | 32.4 | 7.1 | 36.51 | 391 | 70 | P | V |
| | | 2389.56 | 44.88 | -9.12 | 54 | 41.89 | 32.4 | 7.1 | 36.51 | 391 | 70 | A | V |
| | | 2414 | 106.05 | - | - | 103.14 | 32.39 | 7.13 | 36.61 | 391 | 70 | P | V |
| | | 2418 | 98.66 | - | - | 95.72 | 32.39 | 7.16 | 36.61 | 391 | 70 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11g CH 10 2457MHz | | 2456 | 109.22 | - | - | 106.56 | 32.36 | 7.22 | 36.92 | 260 | 109 | P | H |
| | | 2456 | 101.83 | - | - | 99.17 | 32.36 | 7.22 | 36.92 | 260 | 109 | A | H |
| | | 2487.4 | 60.88 | -13.12 | 74 | 58.31 | 32.34 | 7.25 | 37.02 | 260 | 109 | P | H |
| | | 2483.74 | 45.45 | -8.55 | 54 | 42.88 | 32.34 | 7.25 | 37.02 | 260 | 109 | A | H |
| | | 2456 | 107.34 | - | - | 104.68 | 32.36 | 7.22 | 36.92 | 333 | 69 | P | V |
| | | 2456 | 100.69 | - | - | 98.03 | 32.36 | 7.22 | 36.92 | 333 | 69 | A | V |
| | | 2486.08 | 60.69 | -13.31 | 74 | 58.12 | 32.34 | 7.25 | 37.02 | 333 | 69 | P | V |
| | | 2483.92 | 44.88 | -9.12 | 54 | 42.31 | 32.34 | 7.25 | 37.02 | 333 | 69 | A | V |
| 802.11g CH 11 2462MHz | * | 2458 | 108.17 | - | - | 105.51 | 32.36 | 7.22 | 36.92 | 151 | 100 | P | H |
| | * | 2460 | 100.77 | - | - | 98.11 | 32.36 | 7.22 | 36.92 | 151 | 100 | A | H |
| | | 2483.56 | 65.04 | -8.96 | 74 | 62.47 | 32.34 | 7.25 | 37.02 | 151 | 100 | P | H |
| | | 2483.5 | 50.53 | -3.47 | 54 | 47.96 | 32.34 | 7.25 | 37.02 | 151 | 100 | A | H |
| | | 2458 | 103.65 | - | - | 100.99 | 32.36 | 7.22 | 36.92 | 390 | 67 | P | V |
| | | 2456 | 96.25 | - | - | 93.59 | 32.36 | 7.22 | 36.92 | 390 | 67 | A | V |
| | | 2483.56 | 59.51 | -14.49 | 74 | 56.94 | 32.34 | 7.25 | 37.02 | 390 | 67 | P | V |
| | | 2483.5 | 44.42 | -9.58 | 54 | 41.85 | 32.34 | 7.25 | 37.02 | 390 | 67 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## Sample 1-2.4GHz 2400~2483.5MHz

## WIFI 802.11g (Harmonic @ 3m)

| WIFI Ant. 1 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level ( dBμV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11g CH 01 2412MHz | | 4830 | 43.29 | -30.71 | 74 | 64.3 | 34 | 10.25 | 65.26 | 300 | 0 | P | H |
| | | 4830 | 42.77 | -31.23 | 74 | 63.78 | 34 | 10.25 | 65.26 | 100 | 0 | P | V |
| 802.11g CH 02 2417MHz | | 4834 | 44.07 | -29.93 | 74 | 64.61 | 34.6 | 10.25 | 65.39 | 300 | 0 | P | H |
| | | 4834 | 46.01 | -27.99 | 74 | 66.55 | 34.6 | 10.25 | 65.39 | 100 | 0 | P | V |
| 802.11g CH 06 2437MHz | | 4875 | 48.69 | -25.31 | 74 | 69.68 | 34 | 10.29 | 65.28 | 300 | 0 | P | H |
| | | 7305 | 41.13 | -32.87 | 74 | 59.33 | 35.76 | 12.72 | 66.68 | 300 | 0 | P | H |
| | | 4875 | 48.58 | -25.42 | 74 | 69.57 | 34 | 10.29 | 65.28 | 100 | 0 | P | V |
| | | 7305 | 40.85 | -33.15 | 74 | 59.05 | 35.76 | 12.72 | 66.68 | 100 | 0 | P | V |
| 802.11g CH 10 2457MHz | | 4914 | 42.25 | -31.75 | 74 | 63.2 | 34 | 10.34 | 65.29 | 300 | 0 | P | H |
| | | 7371 | 41.47 | -32.53 | 74 | 59.87 | 35.78 | 12.73 | 66.91 | 300 | 0 | P | H |
| | | 4914 | 43.97 | -30.03 | 74 | 64.92 | 34 | 10.34 | 65.29 | 100 | 0 | P | V |
| | | 7371 | 42.15 | -31.85 | 74 | 60.55 | 35.78 | 12.73 | 66.91 | 100 | 0 | P | V |
| 802.11g CH 11 2462MHz | | 4920 | 43.95 | -30.05 | 74 | 64.91 | 34 | 10.34 | 65.3 | 300 | 0 | P | H |
| | | 7380 | 41.32 | -32.68 | 74 | 59.72 | 35.78 | 12.73 | 66.91 | 300 | 0 | P | H |
| | | 4920 | 44.22 | -29.78 | 74 | 65.18 | 34 | 10.34 | 65.3 | 100 | 0 | P | V |
| | | 7380 | 41.12 | -32.88 | 74 | 59.52 | 35.78 | 12.73 | 66.91 | 100 | 0 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## Sample 1-2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT20 (Band Edge @ 3m)

| WIFI Ant. 1 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | * | 2410 | 106.71 | - | - | 103.8 | 32.39 | 7.13 | 36.61 | 106 | 107 | P | H |
| | * | 2408 | 99.19 | - | - | 96.28 | 32.39 | 7.13 | 36.61 | 106 | 107 | A | H |
| 802.11n | | 2389.82 | 69.32 | -4.68 | 74 | 66.33 | 32.4 | 7.1 | 36.51 | 106 | 107 | P | H |
| HT20 | | 2389.95 | 50.55 | -3.45 | 54 | 47.56 | 32.4 | 7.1 | 36.51 | 106 | 107 | A | H |
| CH 01 | * | 2408 | 103.75 | - | - | 100.84 | 32.39 | 7.13 | 36.61 | 399 | 80 | P | V |
| 2412MHz | * | 2408 | 95.72 | - | - | 92.81 | 32.39 | 7.13 | 36.61 | 399 | 80 | A | V |
| | | 2389.95 | 64.66 | -9.34 | 74 | 61.67 | 32.4 | 7.1 | 36.51 | 399 | 80 | P | V |
| | | 2389.95 | 46.28 | -7.72 | 54 | 43.29 | 32.4 | 7.1 | 36.51 | 399 | 80 | A | V |
| | | 2418 | 108.39 | - | - | 105.45 | 32.39 | 7.16 | 36.61 | 155 | 110 | P | H |
| | | 2416 | 100.88 | - | - | 97.94 | 32.39 | 7.16 | 36.61 | 155 | 110 | A | H |
| 802.11n | | 2389.82 | 64.5 | -9.5 | 74 | 61.51 | 32.4 | 7.1 | 36.51 | 155 | 110 | P | H |
| HT20 | | 2389.95 | 48.48 | -5.52 | 54 | 45.49 | 32.4 | 7.1 | 36.51 | 155 | 110 | A | H |
| CH 02 | | 2418 | 105.27 | - | - | 102.33 | 32.39 | 7.16 | 36.61 | 399 | 73 | P | V |
| 2417MHz | | 2416 | 97.17 | - | - | 94.23 | 32.39 | 7.16 | 36.61 | 399 | 73 | A | V |
| | | 2389.82 | 63.05 | -10.95 | 74 | 60.06 | 32.4 | 7.1 | 36.51 | 399 | 73 | P | V |
| | | 2389.95 | 47.57 | -6.43 | 54 | 44.58 | 32.4 | 7.1 | 36.51 | 399 | 73 | A | V |
| | * | 2458 | 106.98 | - | - | 104.32 | 32.36 | 7.22 | 36.92 | 373 | 109 | P | H |
| | * | 2462 | 99.39 | - | - | 96.73 | 32.36 | 7.22 | 36.92 | 373 | 109 | A | H |
| 802.11n | | 2484.16 | 63.82 | -10.18 | 74 | 61.25 | 32.34 | 7.25 | 37.02 | 373 | 109 | P | H |
| HT20 | | 2483.5 | 50.35 | -3.65 | 54 | 47.78 | 32.34 | 7.25 | 37.02 | 373 | 109 | A | H |
| CH 11 | * | 2460 | 104.8 | - | - | 102.14 | 32.36 | 7.22 | 36.92 | 386 | 65 | P | V |
| 2462MHz | * | 2458 | 96.65 | - | - | 93.99 | 32.36 | 7.22 | 36.92 | 386 | 65 | A | V |
| | | 2483.56 | 65.06 | -8.94 | 74 | 62.49 | 32.34 | 7.25 | 37.02 | 386 | 65 | P | V |
| | | 2483.68 | 48.36 | -5.64 | 54 | 45.79 | 32.34 | 7.25 | 37.02 | 386 | 65 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## Sample 1-2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT20 (Harmonic @ 3m)

| WIFI Ant. 1 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level ( dBμV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11n HT20 CH 01 2412MHz | | 4830 | 42.49 | -31.51 | 74 | 63.5 | 34 | 10.25 | 65.26 | 300 | 0 | P | H |
| | | 4830 | 42.02 | -31.98 | 74 | 63.03 | 34 | 10.25 | 65.26 | 100 | 0 | P | V |
| 802.11n HT20 CH 02 2417MHz | | 4834 | 43.58 | -30.42 | 74 | 64.12 | 34.6 | 10.25 | 65.39 | 300 | 0 | P | H |
| | | 4834 | 45.07 | -28.93 | 74 | 65.61 | 34.6 | 10.25 | 65.39 | 100 | 0 | P | V |
| 802.11n HT20 CH 06 2437MHz | | 4875 | 47.83 | -26.17 | 74 | 68.82 | 34 | 10.29 | 65.28 | 300 | 0 | P | H |
| | | 7305 | 41.02 | -32.98 | 74 | 59.22 | 35.76 | 12.72 | 66.68 | 300 | 0 | P | H |
| | | 4875 | 45.04 | -28.96 | 74 | 66.03 | 34 | 10.29 | 65.28 | 100 | 0 | P | V |
| | | 7305 | 41.22 | -32.78 | 74 | 59.42 | 35.76 | 12.72 | 66.68 | 100 | 0 | P | V |
| 802.11n HT20 CH 11 2462MHz | | 4920 | 42.8 | -31.2 | 74 | 63.76 | 34 | 10.34 | 65.3 | 300 | 0 | P | H |
| | | 7380 | 41.5 | -32.5 | 74 | 59.9 | 35.78 | 12.73 | 66.91 | 300 | 0 | P | H |
| | | 4920 | 46.39 | -27.61 | 74 | 67.35 | 34 | 10.34 | 65.3 | 100 | 0 | P | V |
| | | 7380 | 41.3 | -32.7 | 74 | 59.7 | 35.78 | 12.73 | 66.91 | 100 | 0 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## Sample 1-2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI Ant. 1 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2389.43 | 66.46 | -7.54 | 74 | 63.47 | 32.4 | 7.1 | 36.51 | 105 | 97 | P | H |
| | | 2389.56 | 50.67 | -3.33 | 54 | 47.68 | 32.4 | 7.1 | 36.51 | 105 | 97 | A | H |
| | * | 2408 | 101.01 | - | - | 98.1 | 32.39 | 7.13 | 36.61 | 105 | 97 | P | H |
| | * | 2408 | 93.99 | - | - | 91.08 | 32.39 | 7.13 | 36.61 | 105 | 97 | A | H |
| 802.11n | | 2483.86 | 50.55 | -23.45 | 74 | 47.98 | 32.34 | 7.25 | 37.02 | 105 | 97 | P | H |
| HT40 | | 2483.56 | 41.11 | -12.89 | 54 | 38.54 | 32.34 | 7.25 | 37.02 | 105 | 97 | A | H |
| CH 03 | | 2389.56 | 63.12 | -10.88 | 74 | 60.13 | 32.4 | 7.1 | 36.51 | 400 | 71 | P | V |
| 2422MHz | | 2389.43 | 47.62 | -6.38 | 54 | 44.63 | 32.4 | 7.1 | 36.51 | 400 | 71 | A | V |
| | * | 2408 | 98.31 | - | - | 95.4 | 32.39 | 7.13 | 36.61 | 400 | 71 | P | V |
| | * | 2408 | 91.01 | - | - | 88.1 | 32.39 | 7.13 | 36.61 | 400 | 71 | A | V |
| | | 2487.88 | 48.61 | -25.39 | 74 | 46.16 | 32.33 | 7.25 | 37.13 | 400 | 71 | P | V |
| | | 2483.86 | 38.42 | -15.58 | 54 | 35.85 | 32.34 | 7.25 | 37.02 | 400 | 71 | A | V |
| | | 2389.95 | 56.77 | -17.23 | 74 | 53.78 | 32.4 | 7.1 | 36.51 | 125 | 103 | P | H |
| | | 2389.95 | 43.62 | -10.38 | 54 | 40.63 | 32.4 | 7.1 | 36.51 | 125 | 103 | A | H |
| | * | 2450 | 105.64 | - | - | 102.9 | 32.37 | 7.19 | 36.82 | 125 | 103 | P | H |
| | * | 2448 | 98.02 | - | - | 95.28 | 32.37 | 7.19 | 36.82 | 125 | 103 | A | H |
| 802.11n | | 2484.88 | 63.16 | -10.84 | 74 | 60.59 | 32.34 | 7.25 | 37.02 | 125 | 103 | P | H |
| HT40 | | 2483.56 | 49.83 | -4.17 | 54 | 47.26 | 32.34 | 7.25 | 37.02 | 125 | 103 | A | H |
| CH 06 | | 2389.82 | 50.21 | -23.79 | 74 | 47.22 | 32.4 | 7.1 | 36.51 | 383 | 70 | P | V |
| 2437MHz | | 2388 | 39.24 | -14.76 | 54 | 36.25 | 32.4 | 7.1 | 36.51 | 383 | 70 | A | V |
| | * | 2450 | 102.37 | - | - | 99.63 | 32.37 | 7.19 | 36.82 | 383 | 70 | P | V |
| | * | 2448 | 93.67 | - | - | 90.93 | 32.37 | 7.19 | 36.82 | 383 | 70 | A | V |
| | | 2483.86 | 58.68 | -15.32 | 74 | 56.11 | 32.34 | 7.25 | 37.02 | 383 | 70 | P | V |
| | | 2483.5 | 44.88 | -9.12 | 54 | 42.31 | 32.34 | 7.25 | 37.02 | 383 | 70 | A | V |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2389.56 | 53.29 | -20.71 | 74 | 50.3 | 32.4 | 7.1 | 36.51 | 300 | 110 | P | H |
| | | 2389.17 | 39.81 | -14.19 | 54 | 36.82 | 32.4 | 7.1 | 36.51 | 300 | 110 | A | H |
| | * | 2450 | 104.11 | - | - | 101.37 | 32.37 | 7.19 | 36.82 | 300 | 110 | P | H |
| | * | 2450 | 97.13 | - | - | 94.39 | 32.37 | 7.19 | 36.82 | 300 | 110 | A | H |
| **802.11n** | | 2483.56 | 67.75 | -6.25 | 74 | 65.18 | 32.34 | 7.25 | 37.02 | 300 | 110 | P | H |
| **HT40** | | 2483.56 | 49.77 | -4.23 | 54 | 47.2 | 32.34 | 7.25 | 37.02 | 300 | 110 | A | H |
| **CH 09** | | 2389.56 | 49.48 | -24.52 | 74 | 46.49 | 32.4 | 7.1 | 36.51 | 383 | 83 | P | V |
| **2452MHz** | | 2384.75 | 38.68 | -15.32 | 54 | 35.82 | 32.31 | 7.1 | 36.55 | 383 | 83 | A | V |
| | * | 2450 | 100.01 | - | - | 97.27 | 32.37 | 7.19 | 36.82 | 383 | 83 | P | V |
| | * | 2450 | 93.2 | - | - | 90.46 | 32.37 | 7.19 | 36.82 | 383 | 83 | A | V |
| | | 2483.5 | 63.69 | -10.31 | 74 | 61.12 | 32.34 | 7.25 | 37.02 | 383 | 83 | P | V |
| | | 2483.5 | 46.26 | -7.74 | 54 | 43.69 | 32.34 | 7.25 | 37.02 | 383 | 83 | A | V |
| **Remark** | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## Sample 1-2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI Ant. 1 | Note | Frequency ( MHz ) | Level ( dBµV/m ) | Over Limit ( dB ) | Limit Line ( dBµV/m ) | Read Level ( dBµV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11n | | 4845 | 41.07 | -32.93 | 74 | 62.08 | 34 | 10.25 | 65.26 | 300 | 0 | P | H |
| HT40 | | 7260 | 42.31 | -31.69 | 74 | 60.34 | 35.75 | 12.72 | 66.5 | 300 | 0 | P | H |
| CH 03 | | 4845 | 42.71 | -31.29 | 74 | 63.72 | 34 | 10.25 | 65.26 | 100 | 0 | P | V |
| 2422MHz | | 7260 | 41.45 | -32.55 | 74 | 59.48 | 35.75 | 12.72 | 66.5 | 100 | 0 | P | V |
| 802.11n | | 4875 | 41.53 | -32.47 | 74 | 62.52 | 34 | 10.29 | 65.28 | 300 | 0 | P | H |
| HT40 | | 7305 | 42.02 | -31.98 | 74 | 60.22 | 35.76 | 12.72 | 66.68 | 300 | 0 | P | H |
| CH 06 | | 4875 | 41.06 | -32.94 | 74 | 62.05 | 34 | 10.29 | 65.28 | 100 | 0 | P | V |
| 2437MHz | | 7305 | 42.06 | -31.94 | 74 | 60.26 | 35.76 | 12.72 | 66.68 | 100 | 0 | P | V |
| 802.11n | | 4905 | 40.63 | -33.37 | 74 | 61.58 | 34 | 10.34 | 65.29 | 300 | 0 | P | H |
| HT40 | | 7350 | 42.74 | -31.26 | 74 | 61.1 | 35.77 | 12.72 | 66.85 | 300 | 0 | P | H |
| CH 09 | | 4905 | 40.63 | -33.37 | 74 | 61.58 | 34 | 10.34 | 65.29 | 100 | 0 | P | V |
| 2452MHz | | 7350 | 41.52 | -32.48 | 74 | 59.88 | 35.77 | 12.72 | 66.85 | 100 | 0 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## Sample 3 ---2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT40 (Band Edge @ 3m)

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Path | Preamp | Ant | Table | Peak | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | ( MHz ) | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | ( dBµV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| | | 2389.69 | 65.18 | -8.82 | 74 | 62.19 | 32.4 | 7.1 | 36.51 | 156 | 111 | P | H |
| | | 2389.56 | 48.73 | -5.27 | 54 | 45.74 | 32.4 | 7.1 | 36.51 | 156 | 111 | A | H |
| | * | 2414 | 99.75 | - | - | 96.84 | 32.39 | 7.13 | 36.61 | 156 | 111 | P | H |
| | * | 2418 | 92.07 | - | - | 89.13 | 32.39 | 7.16 | 36.61 | 156 | 111 | A | H |
| 802.11n | | 2486.5 | 48.43 | -25.57 | 74 | 45.86 | 32.34 | 7.25 | 37.02 | 156 | 111 | P | H |
| HT40 | | 2483.92 | 39.03 | -14.97 | 54 | 36.46 | 32.34 | 7.25 | 37.02 | 156 | 111 | A | H |
| CH 03 | | 2389.69 | 63.59 | -10.41 | 74 | 60.6 | 32.4 | 7.1 | 36.51 | 398 | 75 | P | V |
| 2422MHz | | 2389.43 | 48.13 | -5.87 | 54 | 45.14 | 32.4 | 7.1 | 36.51 | 398 | 75 | A | V |
| | * | 2420 | 96.92 | - | - | 94.1 | 32.38 | 7.16 | 36.72 | 398 | 75 | P | V |
| | * | 2408 | 90.1 | - | - | 87.19 | 32.39 | 7.13 | 36.61 | 398 | 75 | A | V |
| | | 2484.76 | 47.73 | -26.27 | 74 | 45.16 | 32.34 | 7.25 | 37.02 | 398 | 75 | P | V |
| | | 2484.76 | 38.3 | -15.7 | 54 | 35.73 | 32.34 | 7.25 | 37.02 | 398 | 75 | A | V |

## 2.4GHz 2400~2483.5MHz

## WIFI 802.11n HT40 (Harmonic @ 3m)

| WIFI Ant. 1 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level ( dBμV ) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11n | | 4845 | 41 | -33 | 74 | 62.01 | 34 | 10.25 | 65.26 | 300 | 0 | P | H |
| HT40 | | 7260 | 42.57 | -31.43 | 74 | 60.6 | 35.75 | 12.72 | 66.5 | 300 | 0 | P | H |
| CH 03 | | 4845 | 40.32 | -33.68 | 74 | 61.33 | 34 | 10.25 | 65.26 | 100 | 0 | P | V |
| 2422MHz | | 7260 | 41.08 | -32.92 | 74 | 59.11 | 35.75 | 12.72 | 66.5 | 100 | 0 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## Emission below 1GHz

## 2.4GHz WIFI 802.11n HT40 (LF)

| WIFI Ant. 1 | Note | Frequency ( MHz ) | Level ( dBμV/m ) | Over Limit ( dB ) | Limit Line ( dBμV/m ) | Read Level (dBμV) | Antenna Factor ( dB/m ) | Path Loss ( dB ) | Preamp Factor ( dB ) | Ant Pos ( cm ) | Table Pos ( deg ) | Peak Avg. (P/A) | Pol. (H/V) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.4GHz 802.11n HT40 LF | | 102.75 | 26.05 | -17.45 | 43.5 | 39.34 | 18.07 | 1.53 | 32.89 | - | - | P | H |
| | | 173.56 | 29.36 | -14.14 | 43.5 | 43.36 | 16.94 | 2 | 32.94 | - | - | P | H |
| | | 194.9 | 31.82 | -11.68 | 43.5 | 46.35 | 16.42 | 2.12 | 33.07 | - | - | P | H |
| | | 284.14 | 24.14 | -21.86 | 46 | 34.58 | 19.95 | 2.57 | 32.96 | - | - | P | H |
| | | 594.54 | 27.53 | -18.47 | 46 | 30.77 | 25.55 | 3.72 | 32.51 | - | - | P | H |
| | | 803.09 | 32.42 | -13.58 | 46 | 33.68 | 26.92 | 4.33 | 32.51 | - | - | P | H |
| | | 107.6 | 23.78 | -19.72 | 43.5 | 37.08 | 18.01 | 1.57 | 32.88 | - | - | P | V |
| | | 167.74 | 27.05 | -16.45 | 43.5 | 40.91 | 17.08 | 1.97 | 32.91 | - | - | P | V |
| | | 272.5 | 23.1 | -22.9 | 46 | 33.83 | 19.76 | 2.52 | 33.01 | - | - | P | V |
| | | 482.02 | 24.2 | -21.8 | 46 | 29.44 | 24.17 | 3.35 | 32.76 | - | - | P | V |
| | | 679.9 | 29.15 | -16.85 | 46 | 32.14 | 25.78 | 3.99 | 32.76 | - | - | P | V |
| | | 890.39 | 32.35 | -13.65 | 46 | 32.95 | 27.36 | 4.56 | 32.52 | - | - | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against limit line. | | | | | | | | | | | | |

**Note symbol**

| | |
|---|---|
| * | **Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency. |
| ! | Test result is **over limit** line. |
| P/A | **P**eak or **A**verage |
| H/V | **H**orizontal or **V**ertical |

## A calculation example for radiated spurious emission is shown as below:

| WIFI | Note | Frequency | Level | Over | Limit | Read | Antenna | Path | Preamp | Ant | Table | Peak | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ant. | | | | Limit | Line | Level | Factor | Loss | Factor | Pos | Pos | Avg. | |
| 1 | | ( MHz ) | ( dBμV/m ) | ( dB ) | ( dBμV/m ) | ( dBμV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11b CH 01 2412MHz | | 2390 | 55.45 | -18.55 | 74 | 54.51 | 32.22 | 4.58 | 35.86 | 103 | 308 | P | H |
| | | 2390 | 43.54 | -10.46 | 54 | 42.6 | 32.22 | 4.58 | 35.86 | 103 | 308 | A | H |

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =

Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

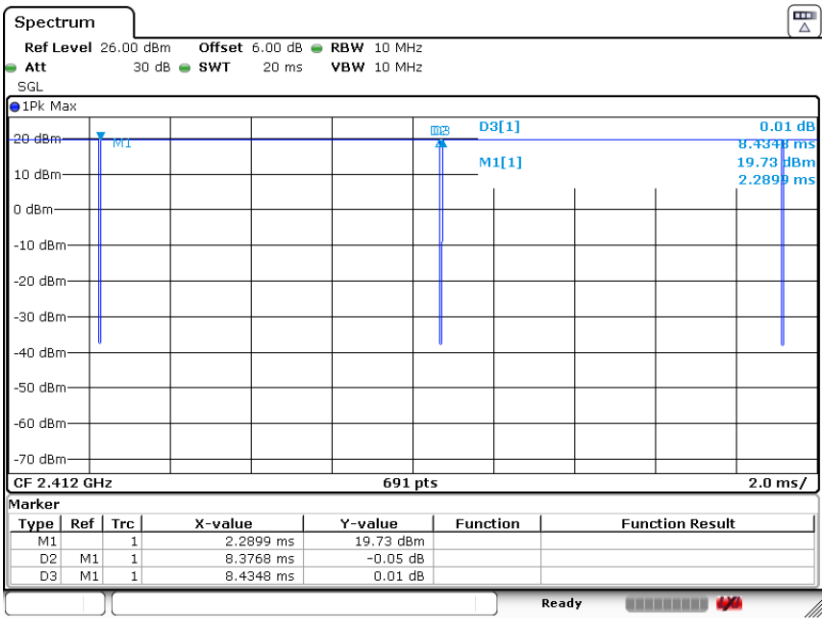
= -10.46(dB)

**Both peak and average measured complies with the limit line, so test result is “PASS”.**

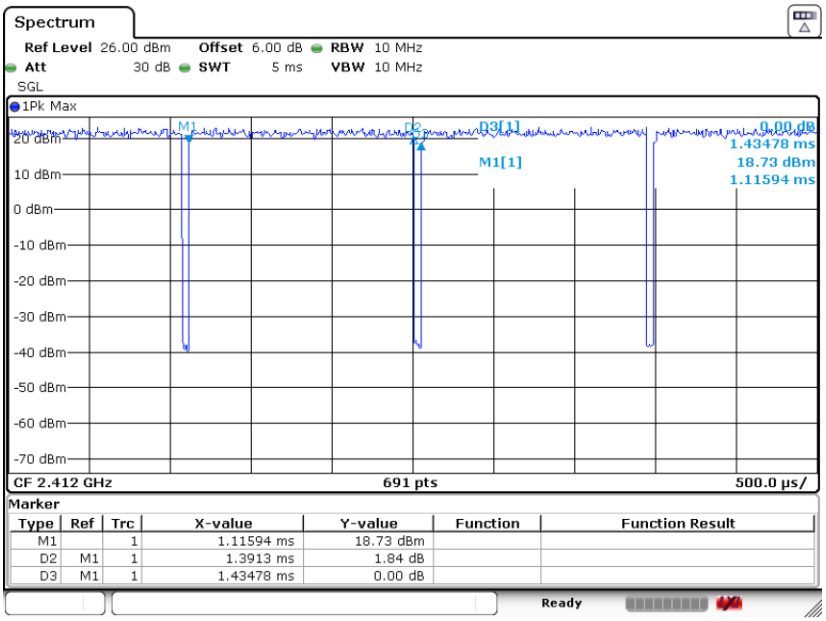
# Appendix D. Duty Cycle Plots

| Band | Duty Cycle(%) | T(ms) | 1/T(kHz) | VBW Setting |
|---|---|---|---|---|
| 802.11b | 99.31 | - | - | 10Hz |
| 802.11g | 96.97 | 1.391 | 0.719 | 0.75KHz |
| 802.11n HT20 | 96.78 | 1.304 | 0.767 | 0.8KHz |
| 802.11n HT40 | 93.73 | 0.649 | 1.540 | 1.6KHz |

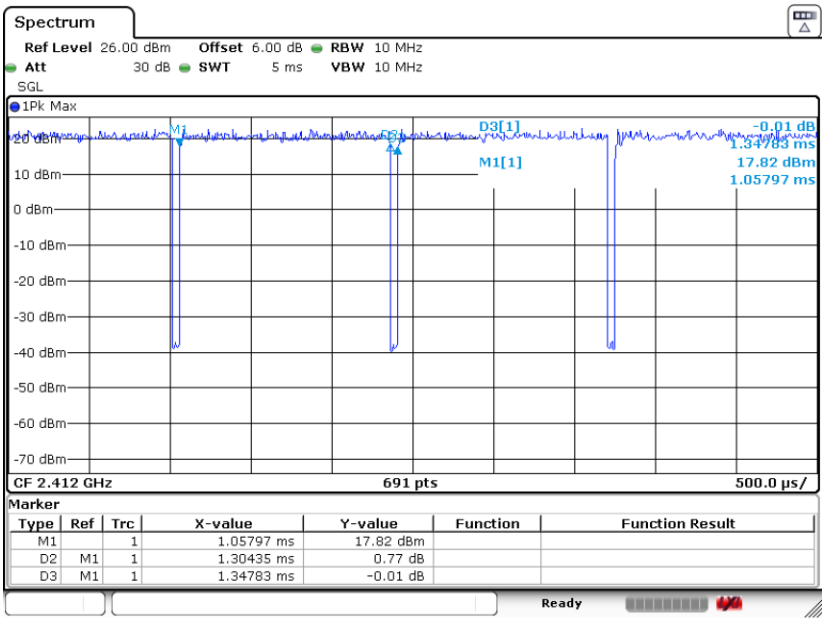
802.11b



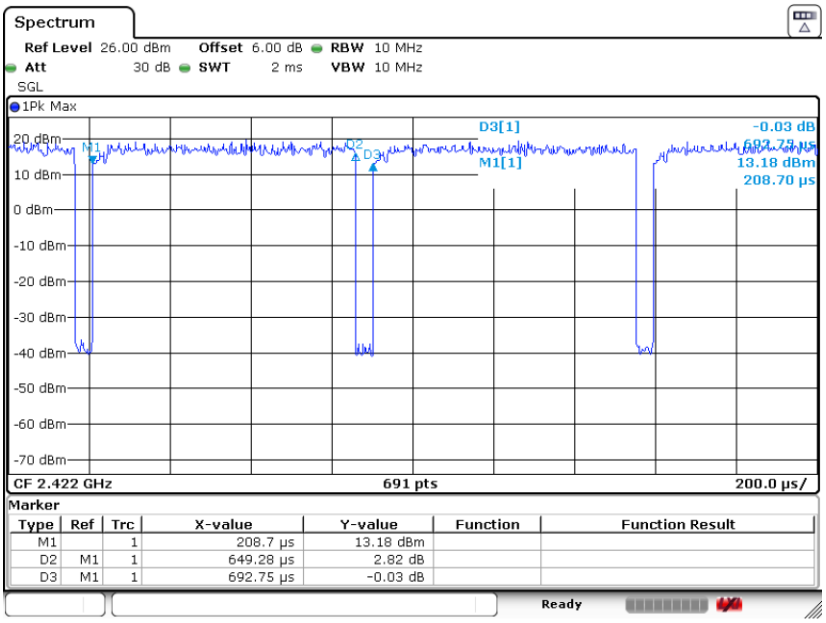
802.11g




802.11n HT20



802.11n HT40


Spectrum
Ref Level 26.00 dBm Offset 6.00 dB RBW 10 MHz
Att 30 dB SWT 2 ms VBW 10 MHz
SGL
1Pk Max
D3[1] -0.03 dB
692.75 µs
M1[1] 13.18 dBm
208.70 µs
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
CF 2.422 GHz 691 pts 200.0 µs/
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 208.7 µs 13.18 dBm
D2 M1 1 649.28 µs 2.82 dB
D3 M1 1 692.75 µs -0.03 dB
Ready