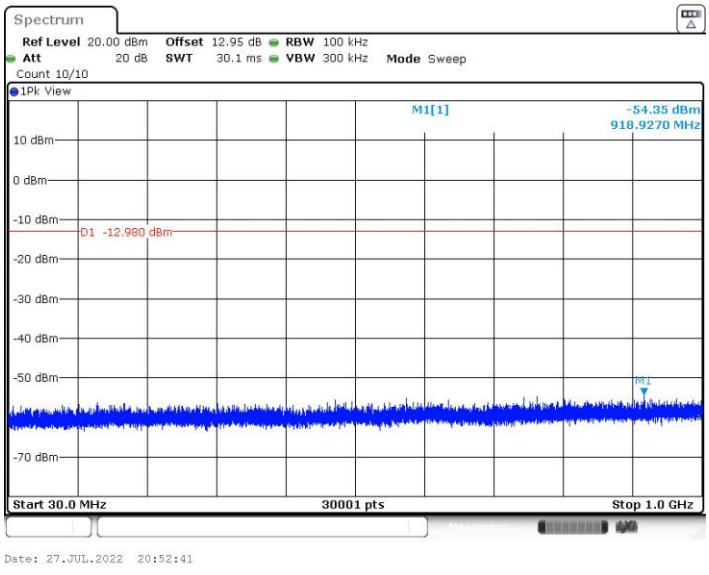
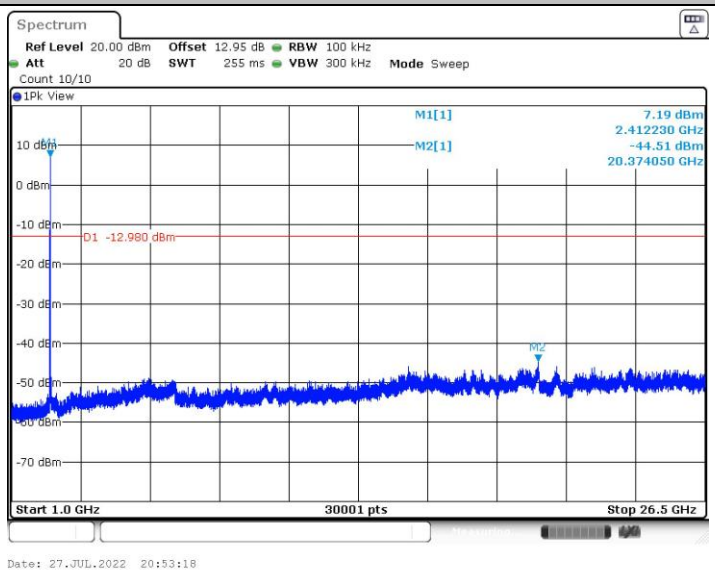
## Test Graphs

11B-CDD_Ant1_2412_30~1000




11B-CDD_Ant1_2412_1000~26500



| 11B-CDD_Ant2_2412_30~1000 |
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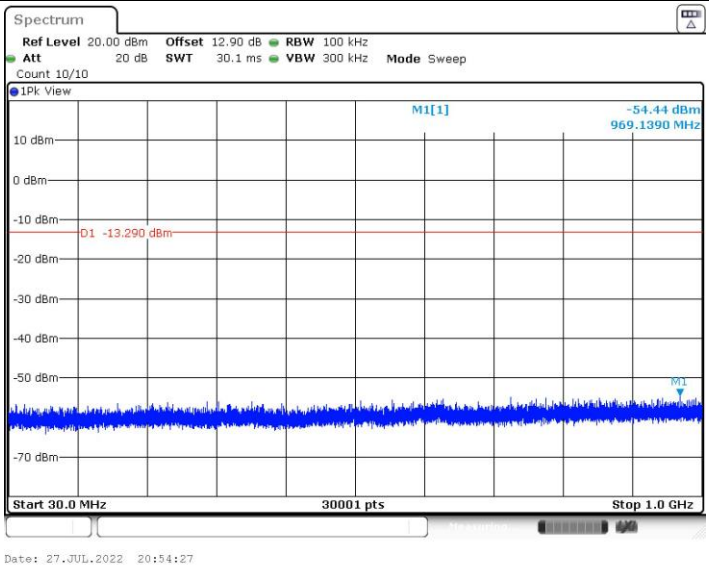
|  |



| 11B-CDD_Ant2_2412_1000~26500 |
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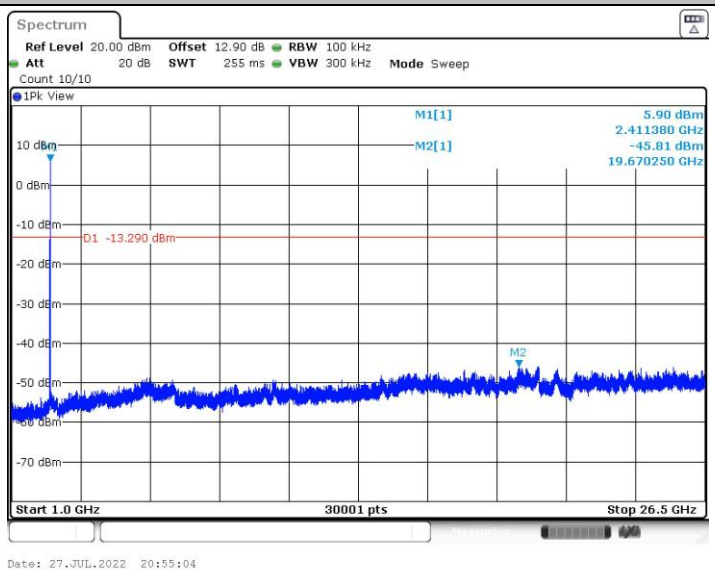
|  |

| 11B-CDD_Ant1_2437_30~1000 |
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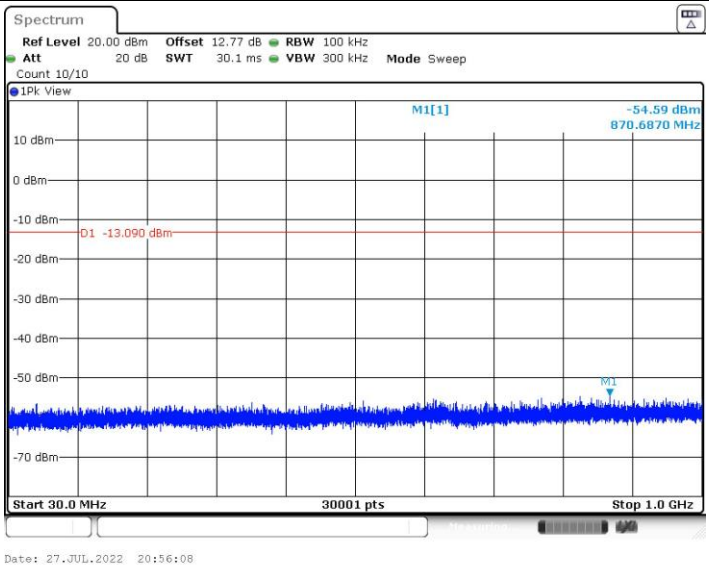
|  |



| 11B-CDD_Ant1_2437_1000~26500 |
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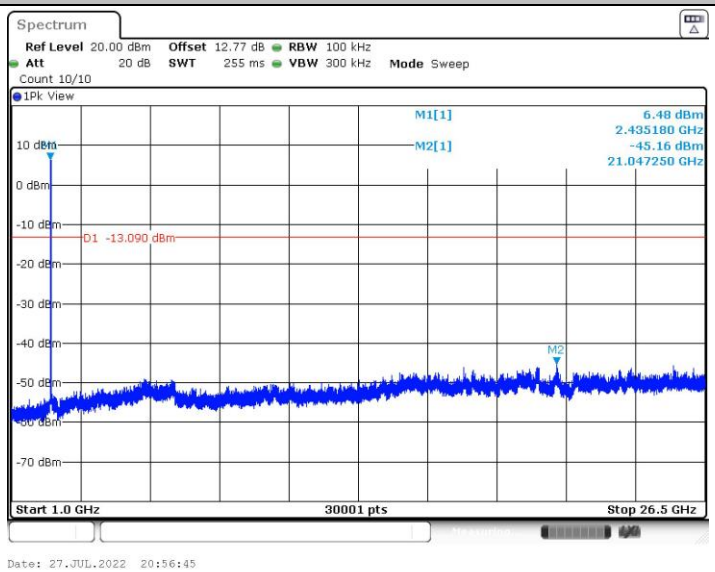
|  |

| 11B-CDD_Ant2_2437_30~1000 |
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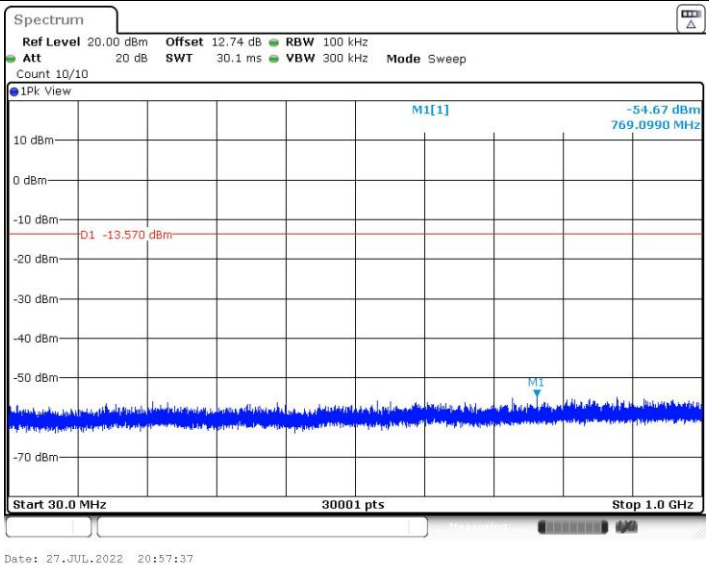
|  |



| 11B-CDD_Ant2_2437_1000~26500 |
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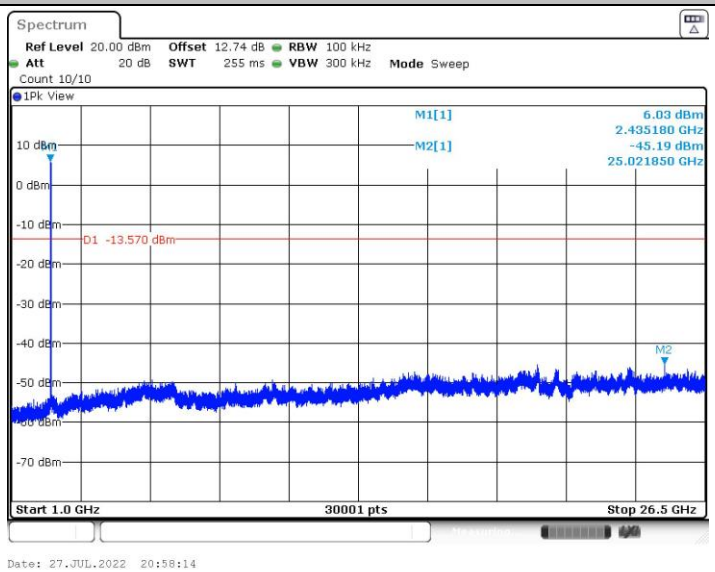
|  |

| 11B-CDD_Ant1_2462_30~1000 |
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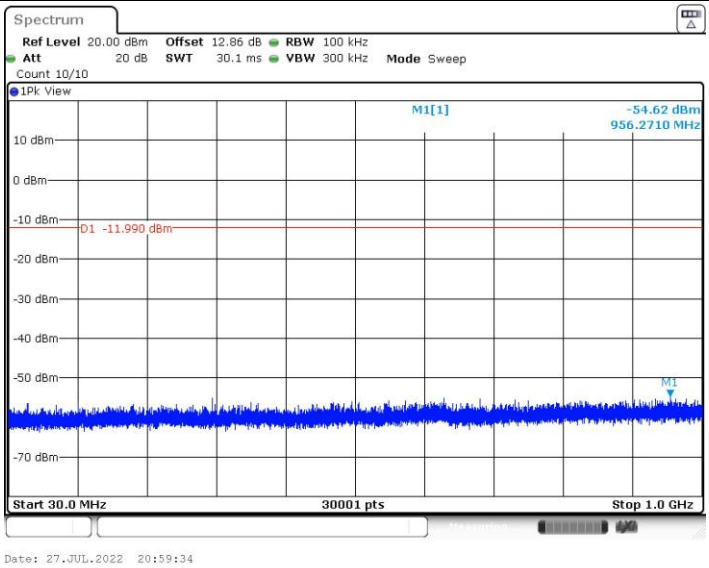
|  |



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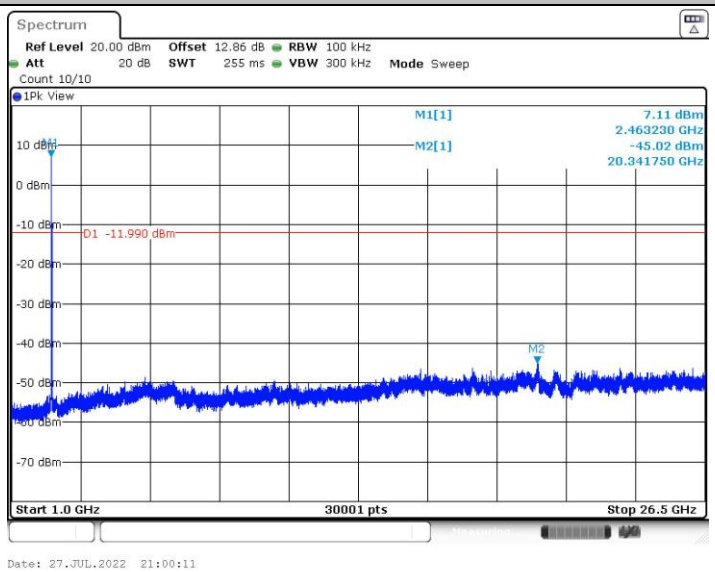
|  |

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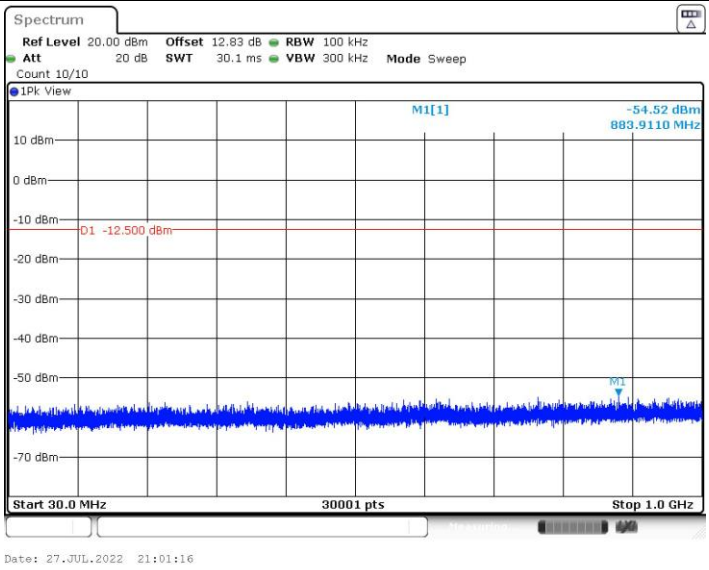
|  |



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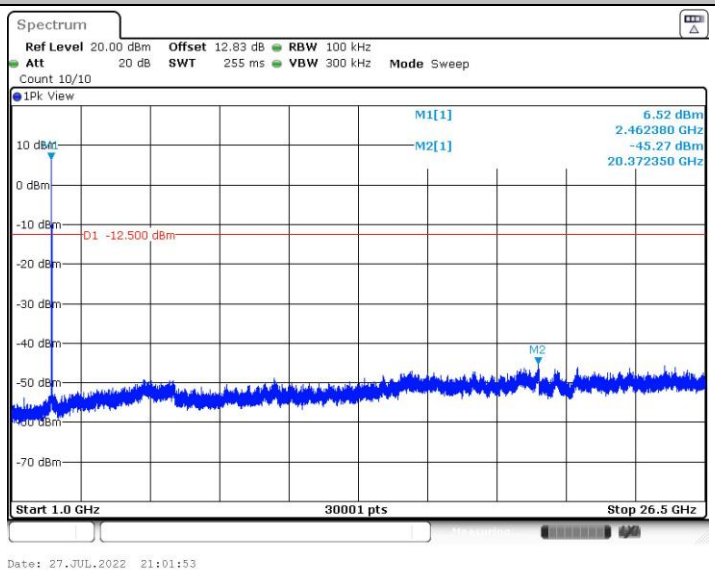
|  |

| 11G-CDD_Ant1_2412_30~1000 |
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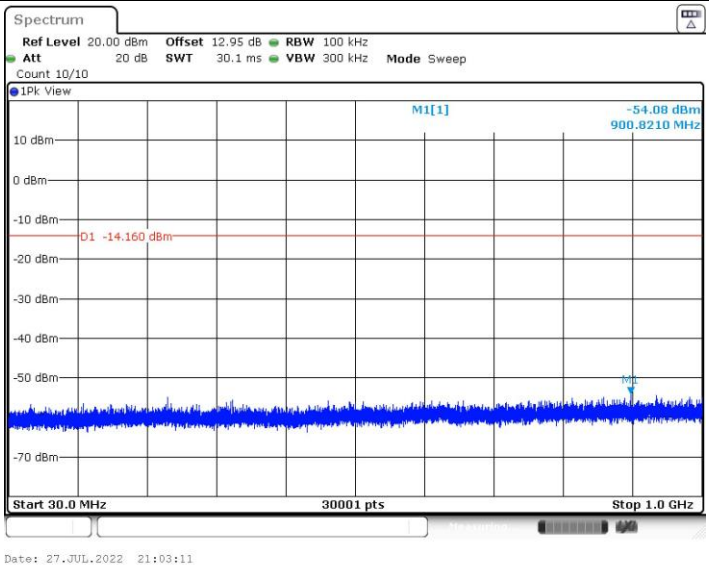
|  |



| 11G-CDD_Ant1_2412_1000~26500 |
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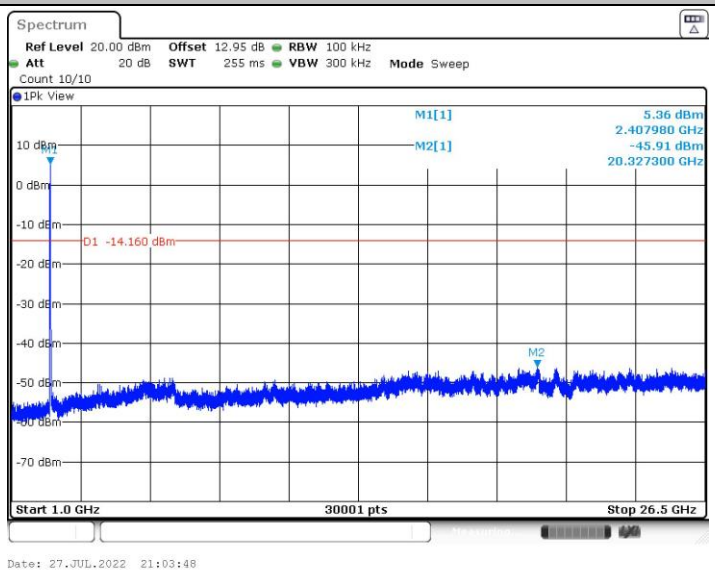
|  |

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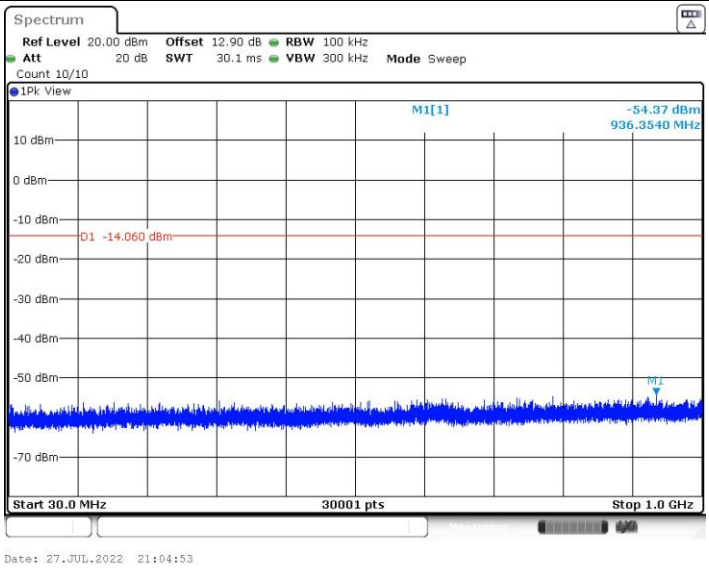
|  |



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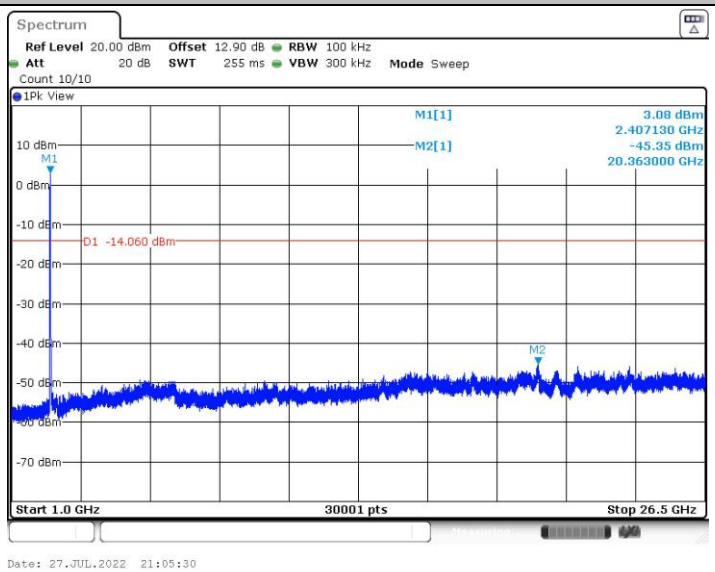
|  |

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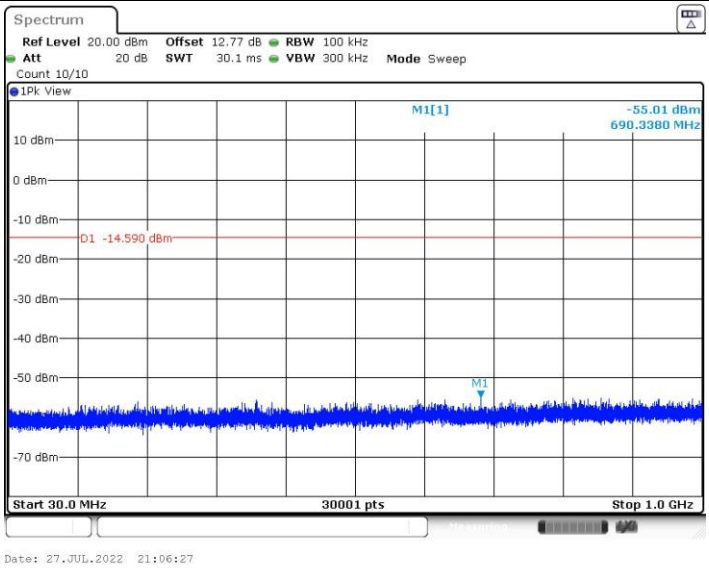
|  |



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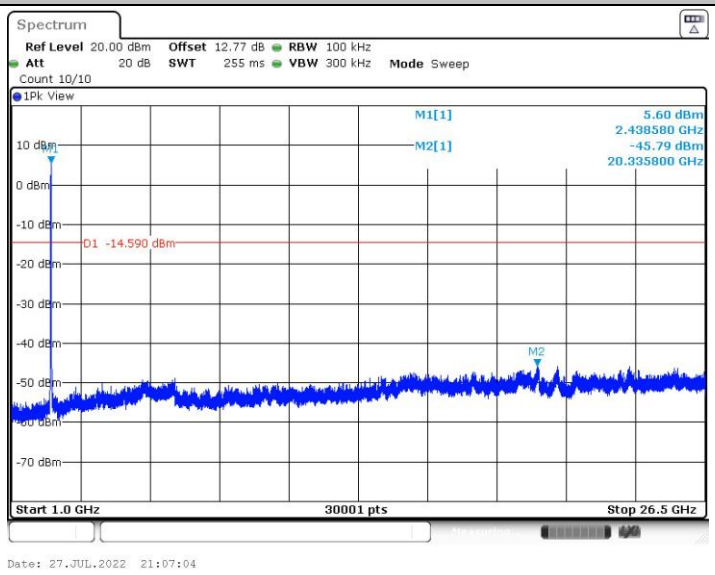
|  |

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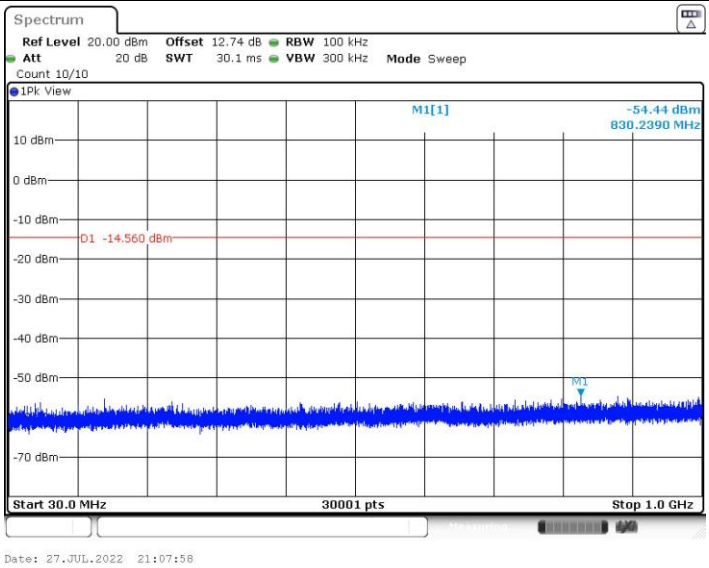
|  |



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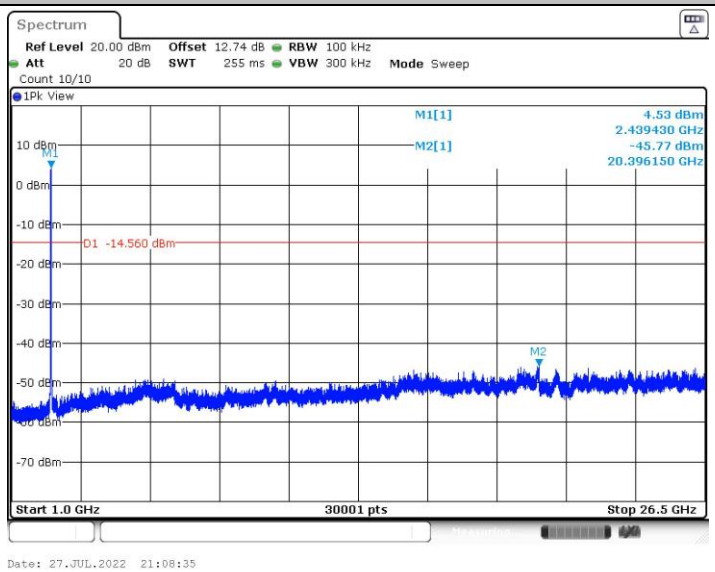
|  |

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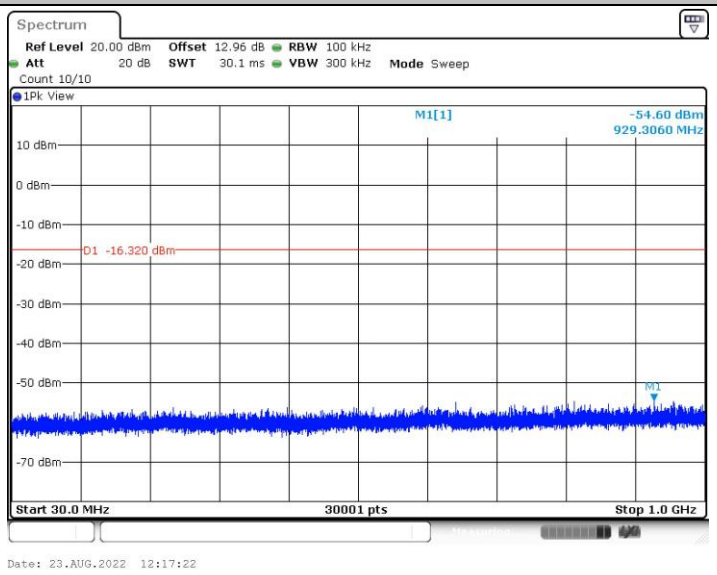
|  |



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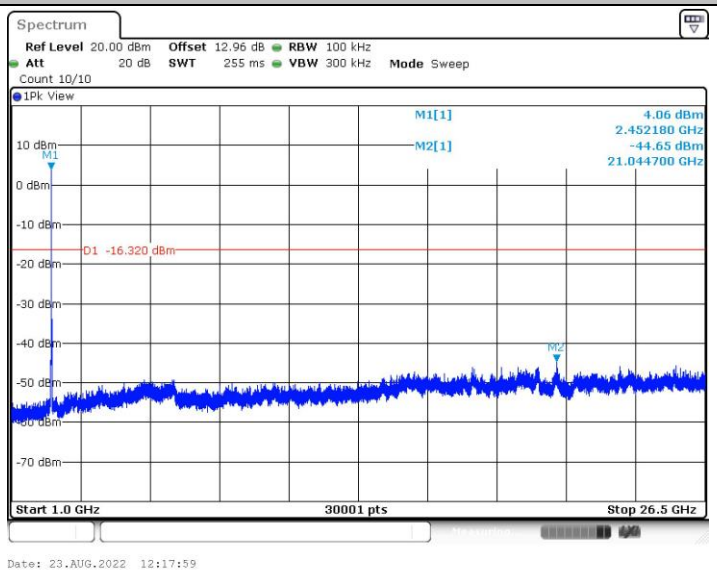
|  |

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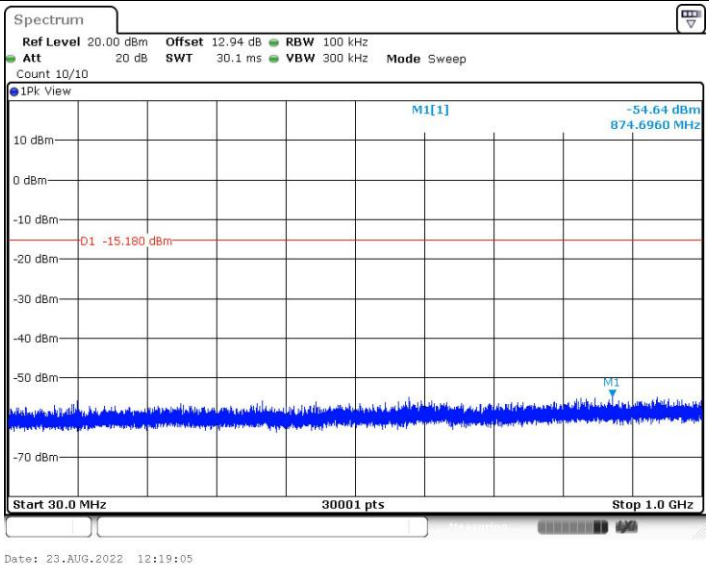
|  |



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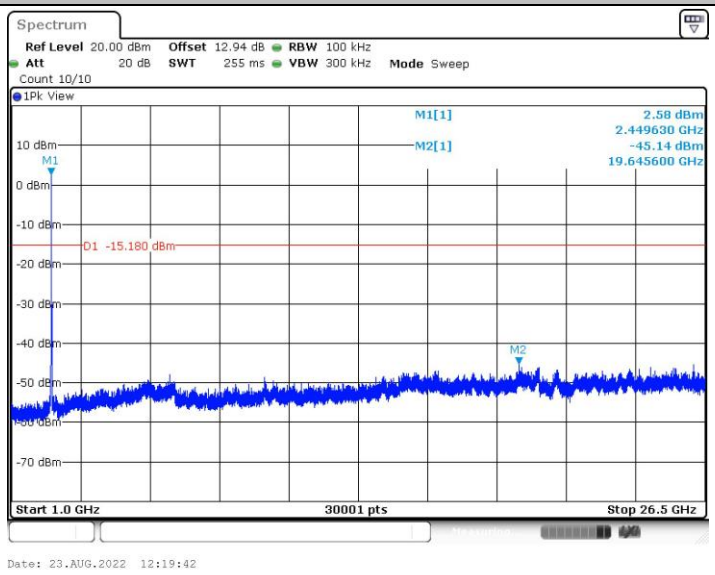
|  |

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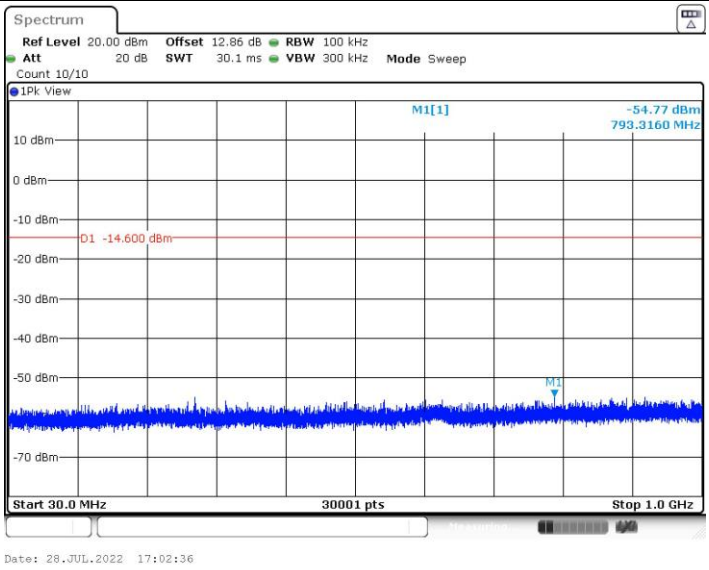
|  |



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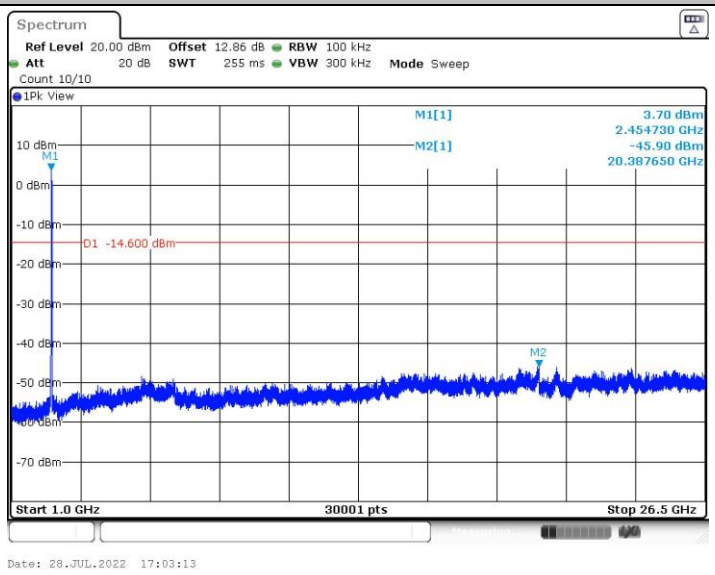
|  |

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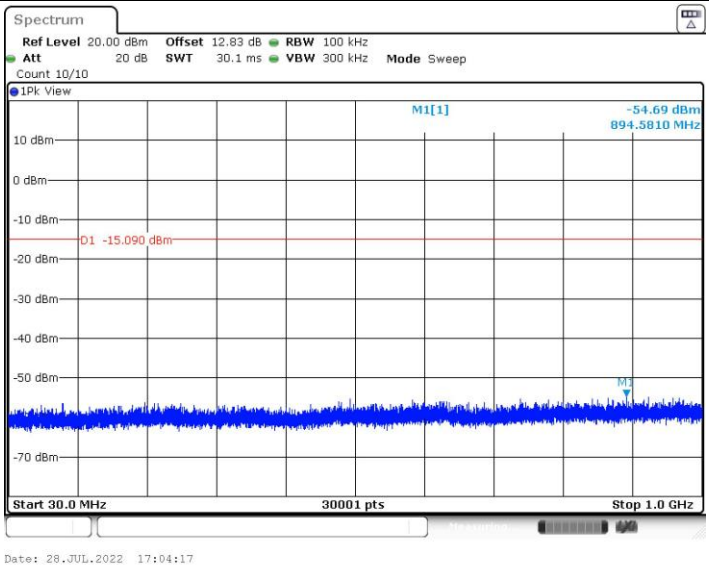
|  |



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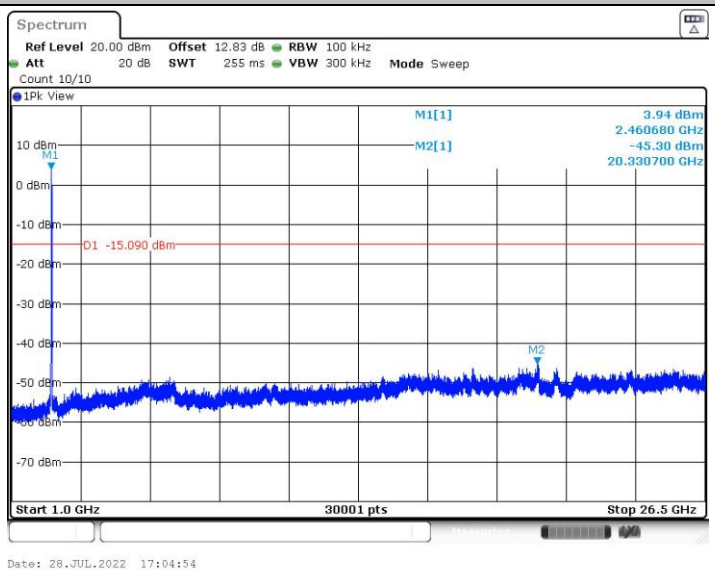
|  |

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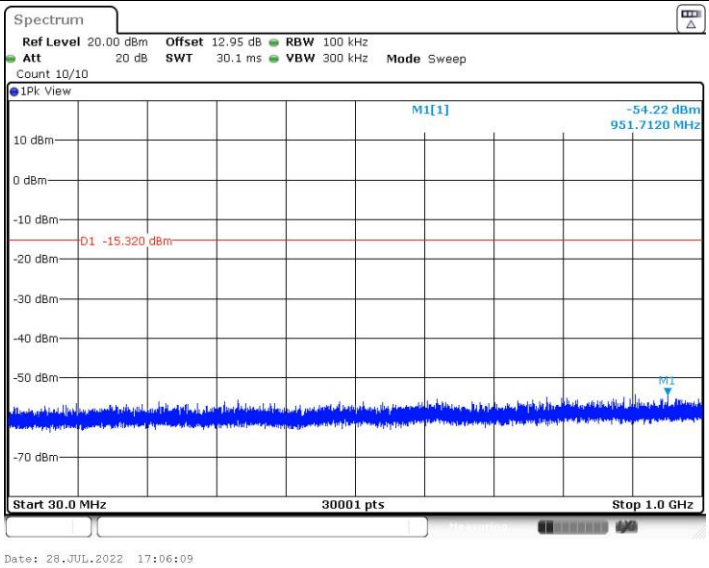
|  |



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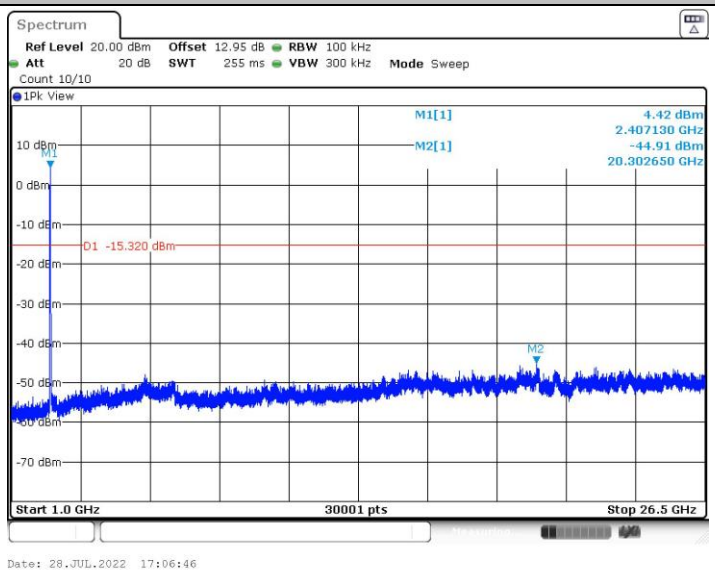
|  |

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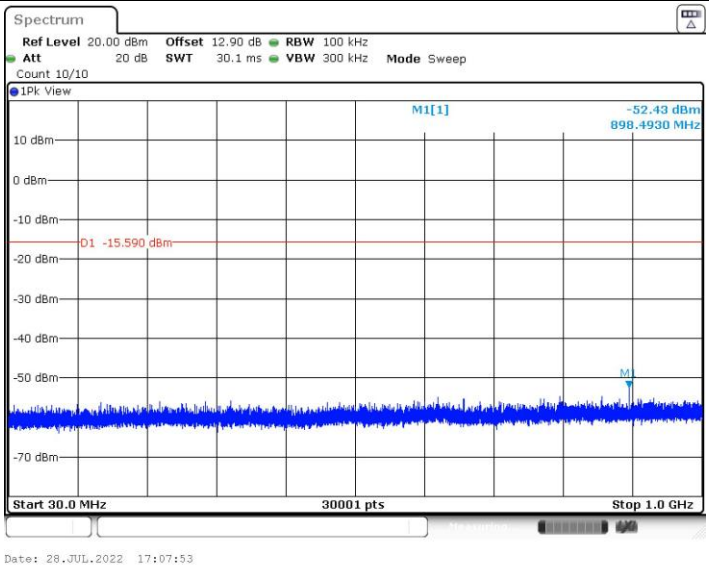
|  |



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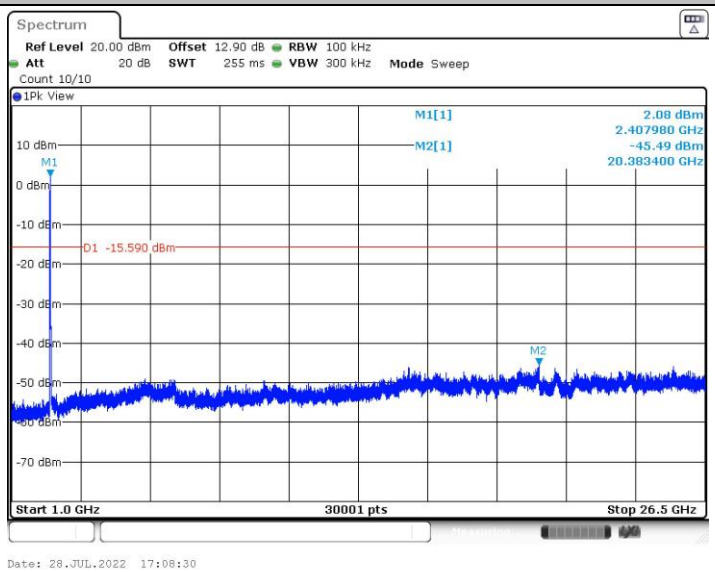
|  |

| 11AX20MIMO_Ant1_2437_30~1000 |
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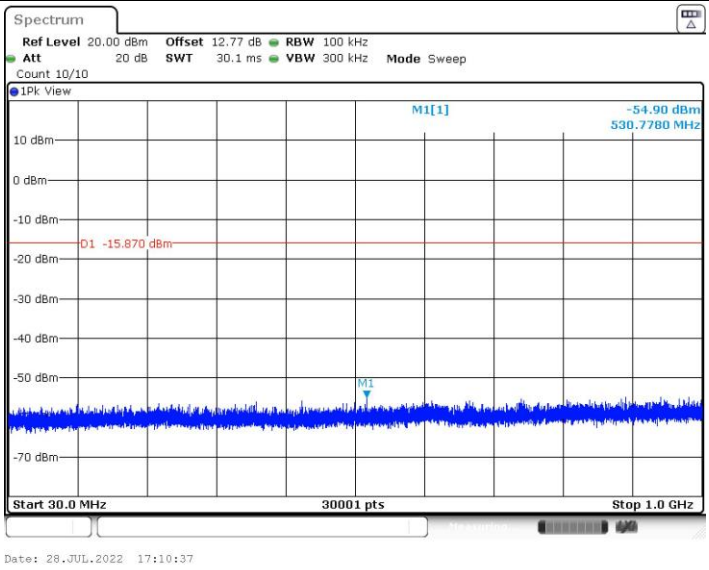
|  |



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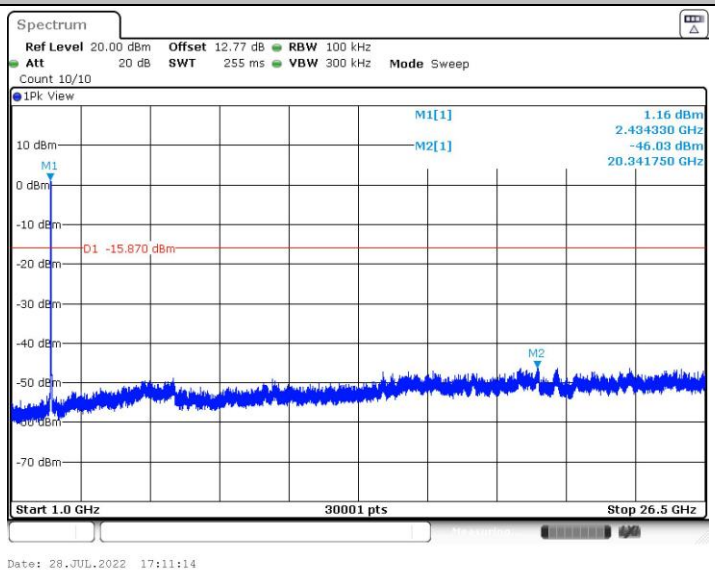
|  |

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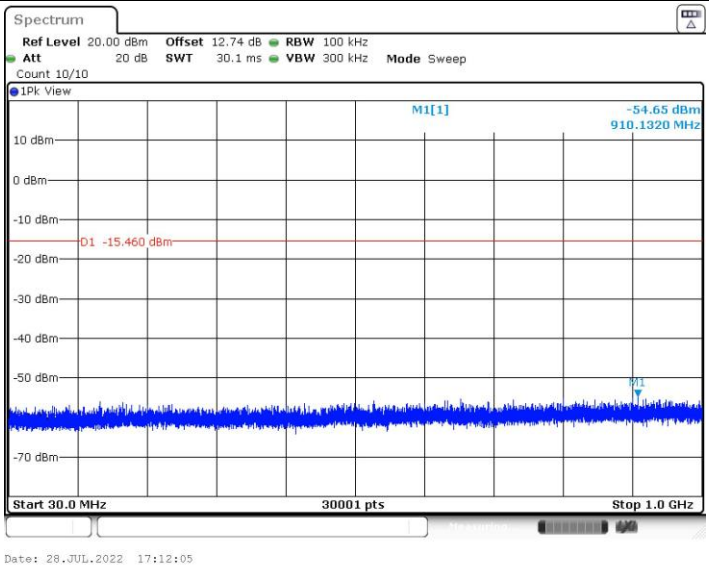
|  |
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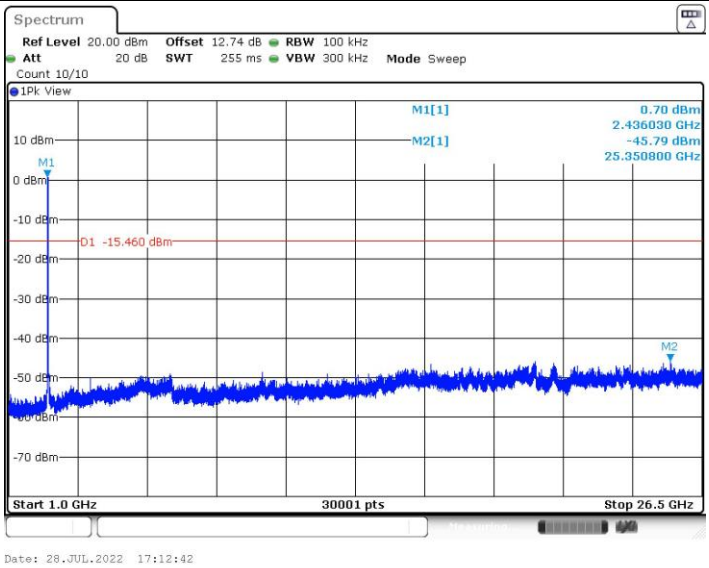
|  |

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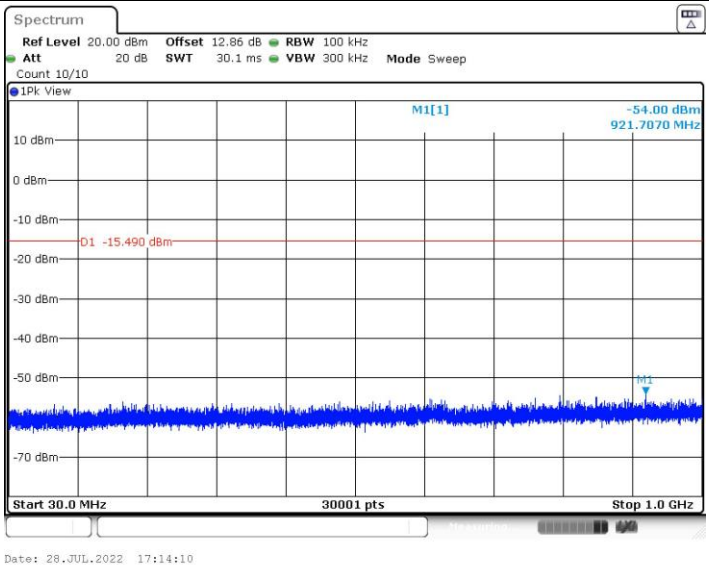
|  |



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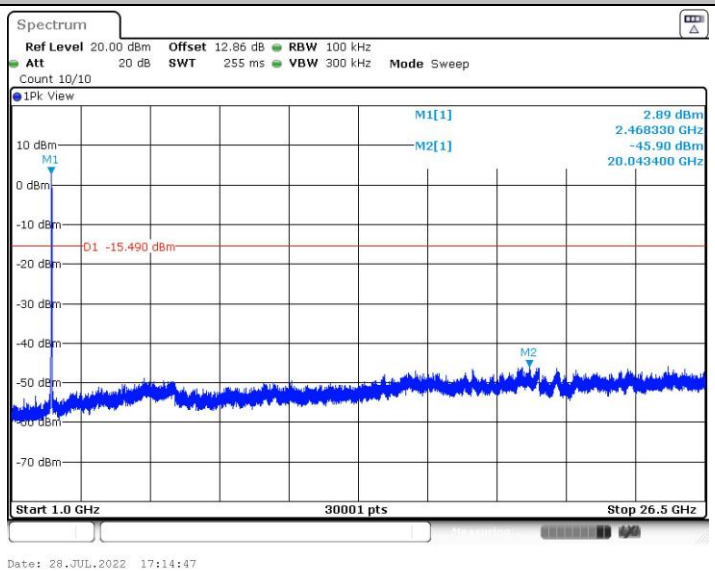
|  |

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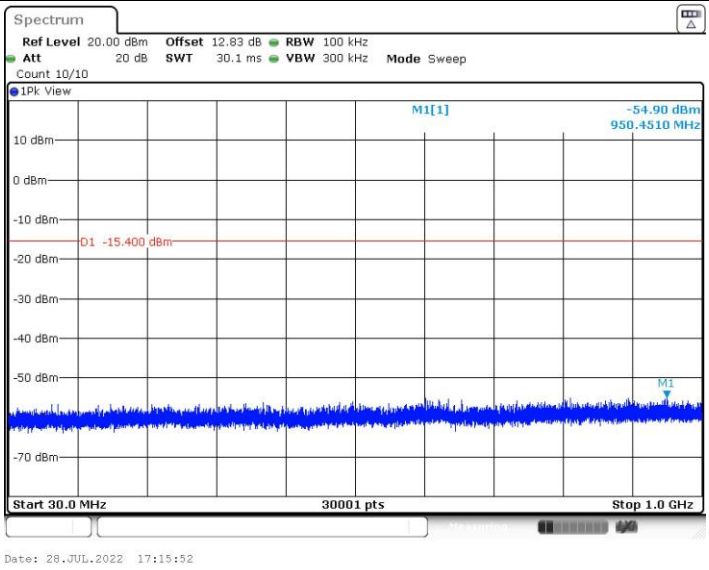
|  |



| 11AX20MIMO_Ant2_2462_1000~26500 |
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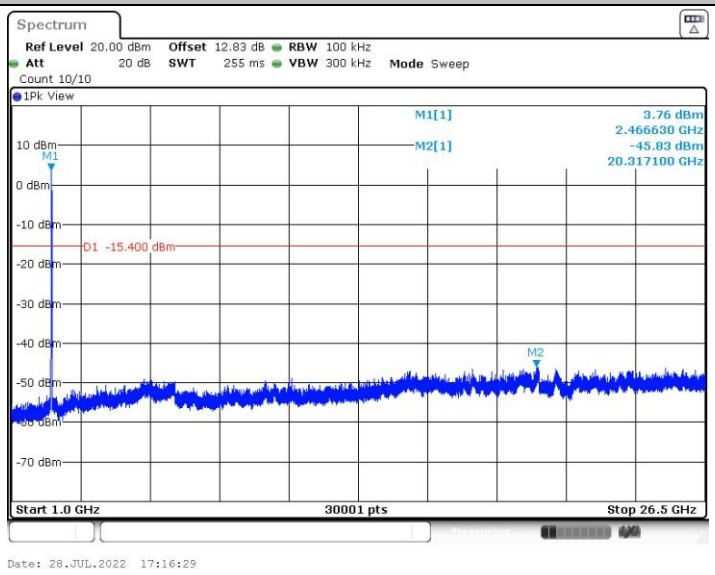
|  |

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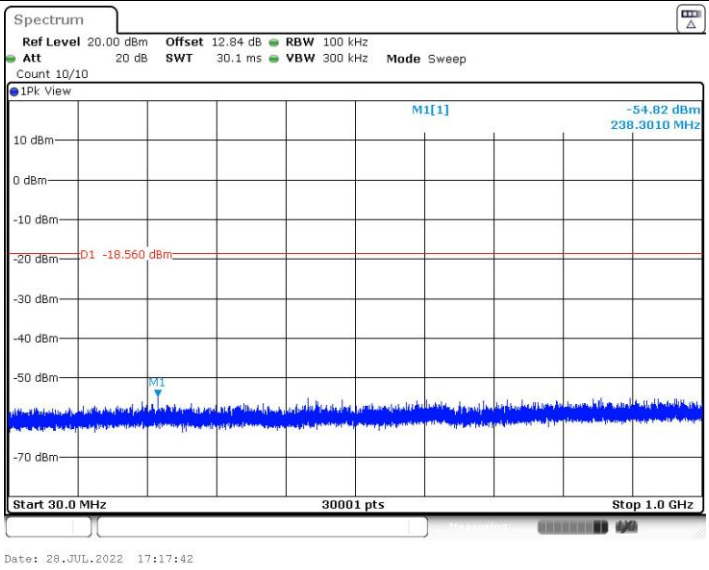
|  |



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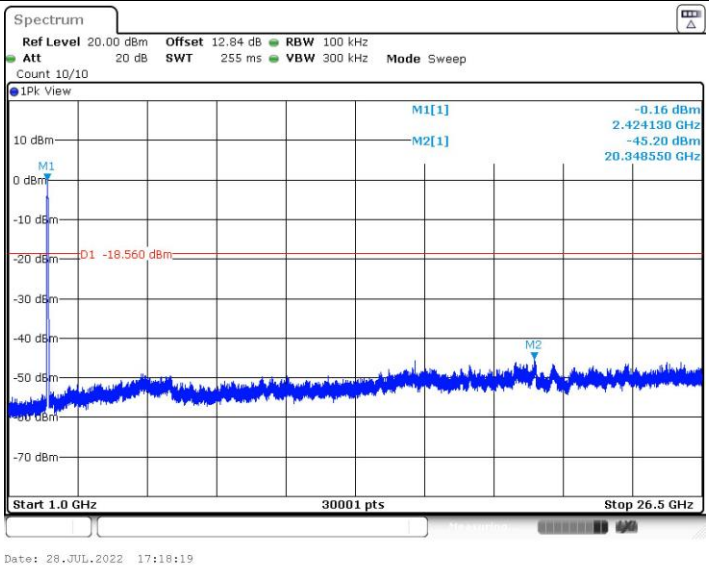
|  |

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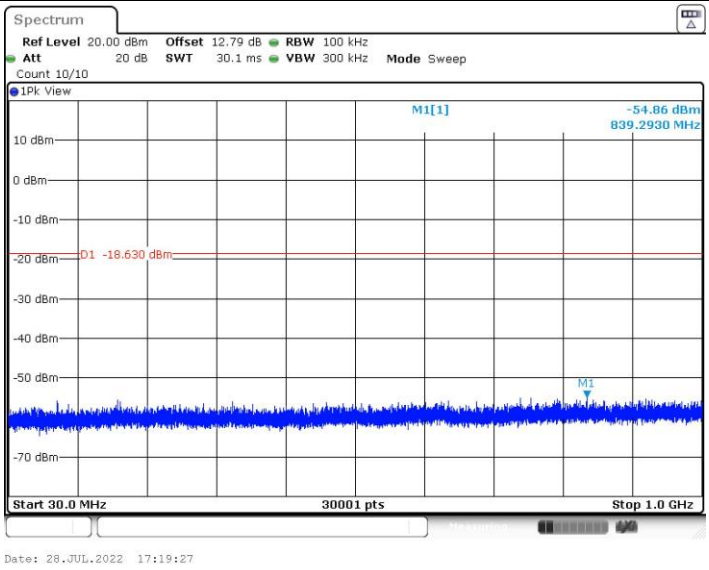
|  |
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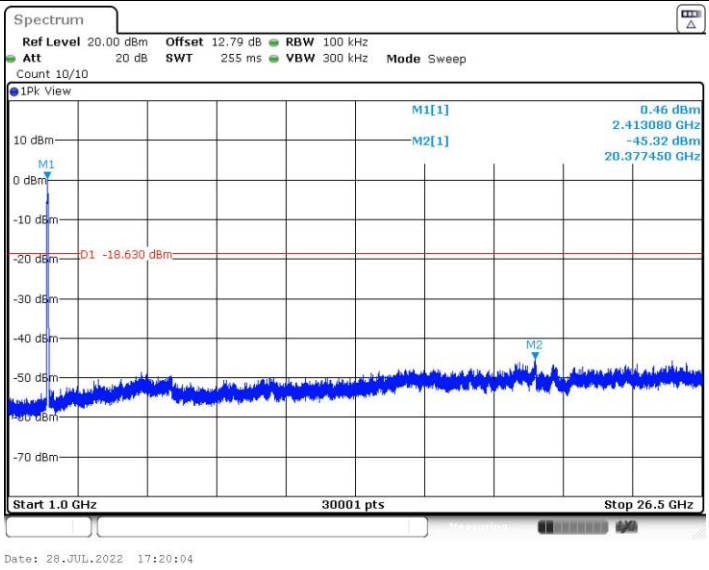
|  |

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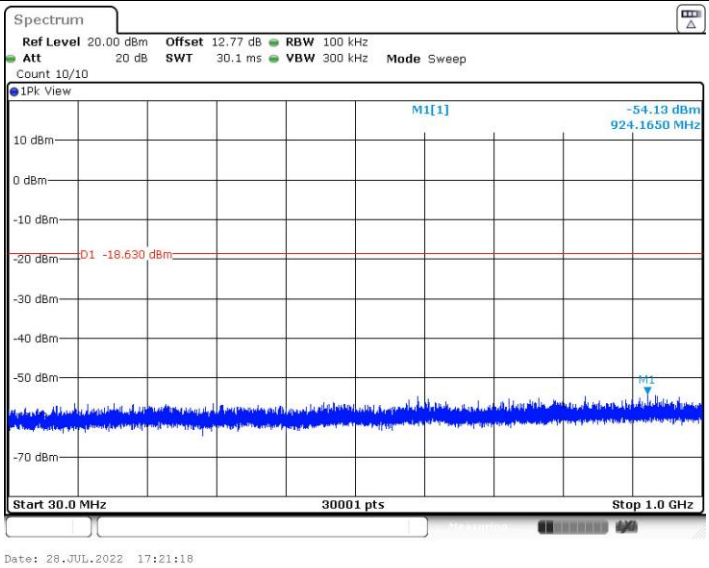
|  |



| 11AX40MIMO_Ant1_2437_1000~26500 |
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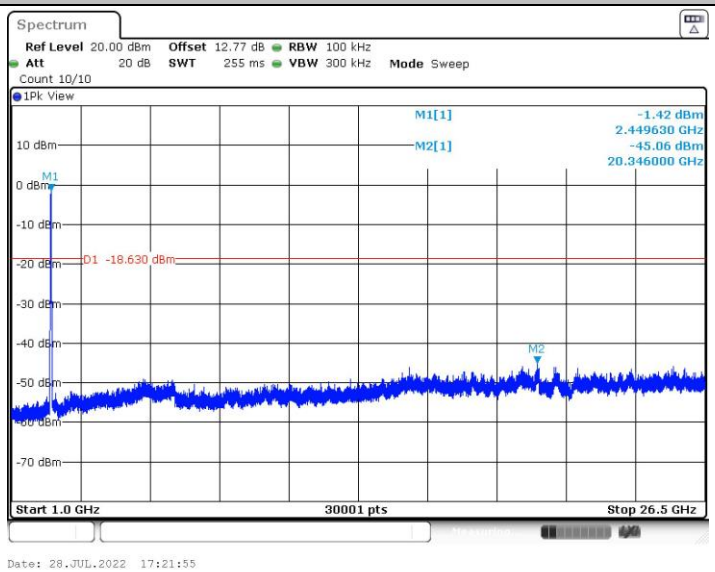
|  |

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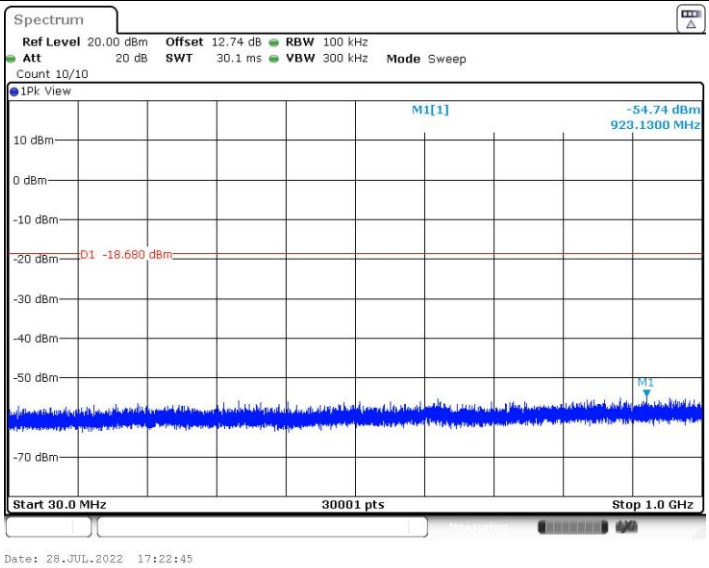
|  |
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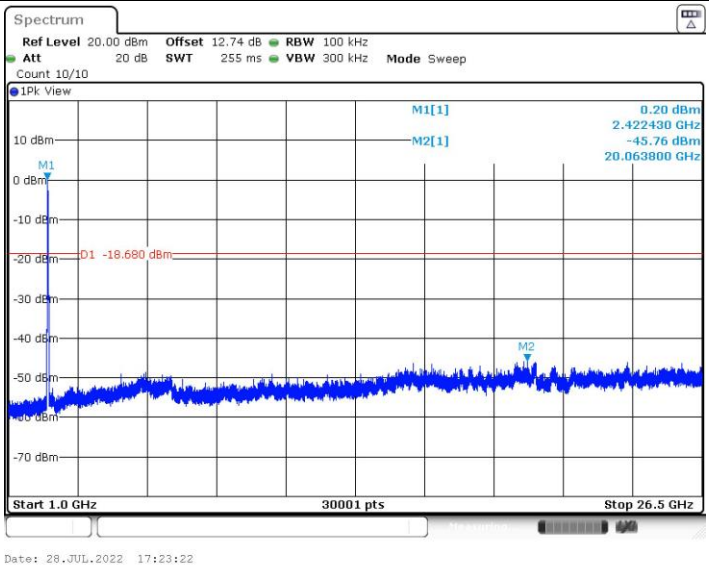
|  |

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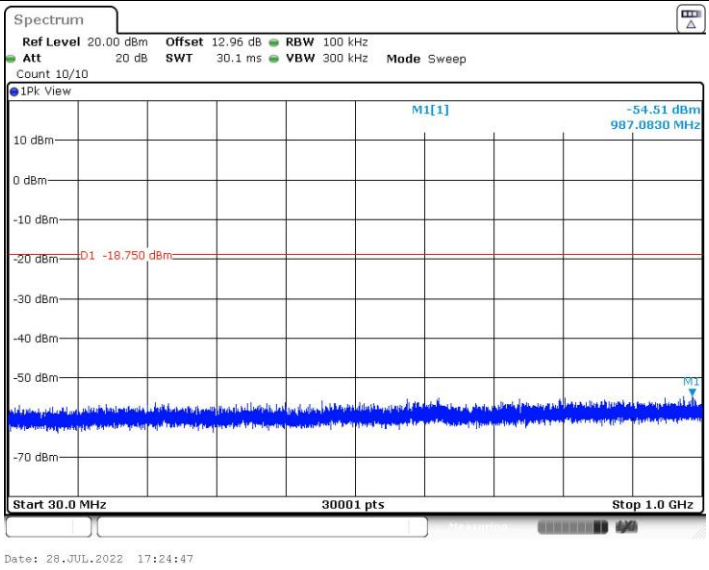
|  |



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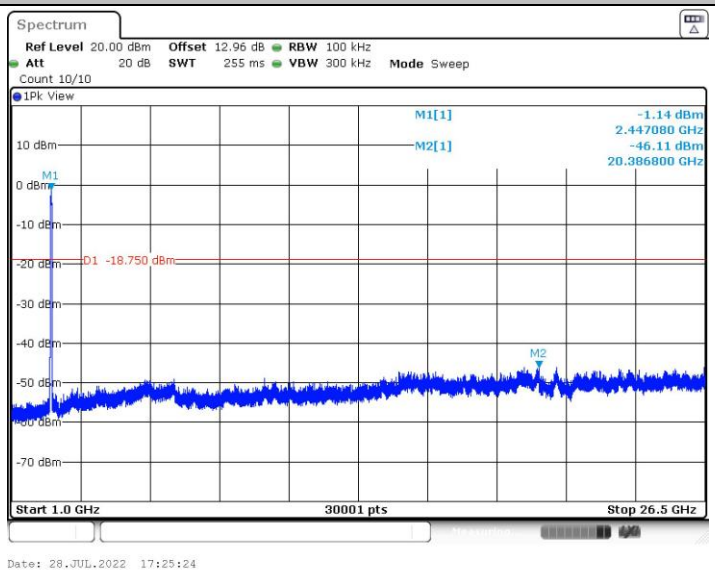
|  |

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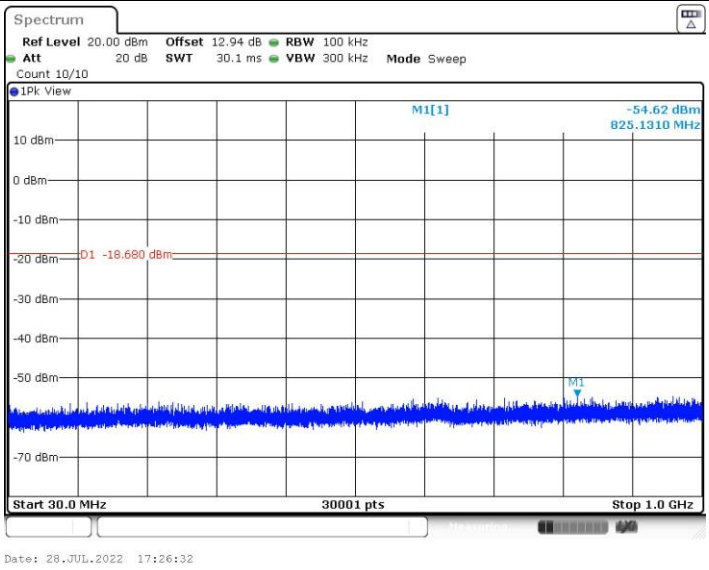
|  |
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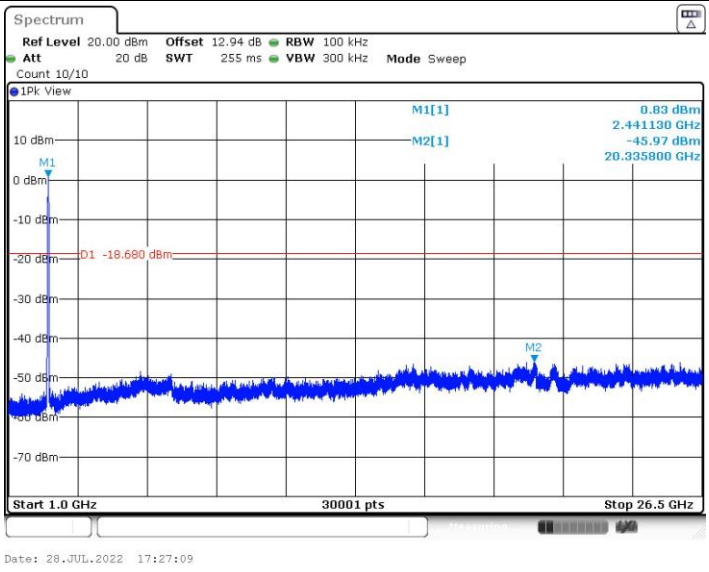
|  |

# Maximum Output Power

## Peak Power

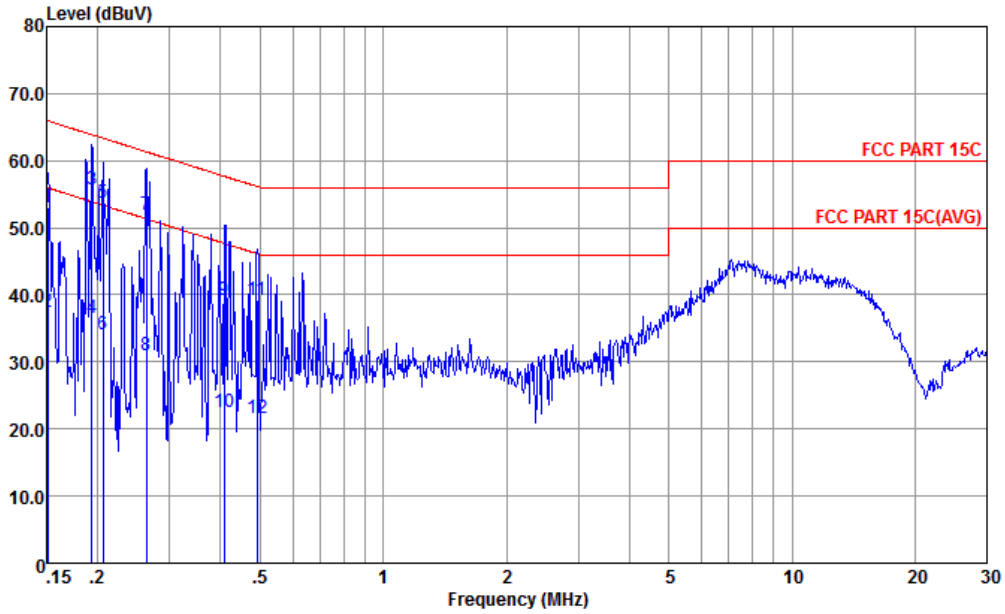
| 2.4GHz Band | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | RU Config | NTX | CH. | Freq. (MHz) | Peak Conducted Power (dBm) | | | Conducted Power Limit (dBm) | | DG (dBi) | | EIRP Power (dBm) | | EIRP Power Limit (dBm) | | Pass /Fail |
| | | | | | | Ant 1 | Ant 2 | SUM | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | Ant 1 | Ant 2 | |
| 11b | 1Mbps | - | 2 | 1 | 2412 | 19.11 | 18.80 | 21.97 | 30.00 | | -1.44 | | 20.53 | | 36.00 | | Pass |
| 11b | 1Mbps | | 2 | 6 | 2437 | 19.09 | 18.68 | 21.90 | 30.00 | | -1.44 | | 20.46 | | 36.00 | | Pass |
| 11b | 1Mbps | | 2 | 11 | 2462 | 19.40 | 18.63 | 22.04 | 30.00 | | -1.44 | | 20.60 | | 36.00 | | Pass |
| 11g | 6Mbps | | 2 | 1 | 2412 | 22.49 | 22.02 | 25.27 | 30.00 | | -1.44 | | 23.83 | | 36.00 | | Pass |
| 11g | 6Mbps | | 2 | 6 | 2437 | 23.11 | 22.81 | 25.97 | 30.00 | | -1.44 | | 24.53 | | 36.00 | | Pass |
| 11g | 6Mbps | | 2 | 10 | 2457 | 22.03 | 21.75 | 24.90 | 30.00 | | -1.44 | | 23.46 | | 36.00 | | Pass |
| 11g | 6Mbps | | 2 | 11 | 2462 | 20.33 | 19.95 | 23.15 | 30.00 | | -1.44 | | 21.71 | | 36.00 | | Pass |
| HT20 | MCS0 | | 2 | 1 | 2412 | 21.13 | 20.79 | 23.97 | 30.00 | | -1.44 | | 22.53 | | 36.00 | | Pass |
| HT20 | MCS0 | | 2 | 6 | 2437 | 21.72 | 21.33 | 24.54 | 30.00 | | -1.44 | | 23.10 | | 36.00 | | Pass |
| HT20 | MCS0 | | 2 | 11 | 2462 | 20.63 | 20.12 | 23.39 | 30.00 | | -1.44 | | 21.95 | | 36.00 | | Pass |
| HT40 | MCS0 | | 2 | 3 | 2422 | 18.49 | 18.49 | 21.50 | 30.00 | | -1.44 | | 20.06 | | 36.00 | | Pass |
| HT40 | MCS0 | | 2 | 6 | 2437 | 18.76 | 18.61 | 21.70 | 30.00 | | -1.44 | | 20.26 | | 36.00 | | Pass |
| HT40 | MCS0 | | 2 | 9 | 2452 | 17.22 | 17.13 | 20.19 | 30.00 | | -1.44 | | 18.75 | | 36.00 | | Pass |
| HE20 | MCS0 | full | 2 | 1 | 2412 | 22.44 | 21.92 | 25.20 | 30.00 | | -1.44 | | 23.76 | | 36.00 | | Pass |
| HE20 | MCS0 | 26 | 2 | 1 | 2412 | 16.13 | 16.72 | 19.45 | 30.00 | | -1.44 | | 18.01 | | 36.00 | | Pass |
| HE20 | MCS0 | 52 | 2 | 1 | 2412 | 18.56 | 18.71 | 21.65 | 30.00 | | -1.44 | | 20.21 | | 36.00 | | Pass |
| HE20 | MCS0 | 106 | 2 | 1 | 2412 | 19.96 | 20.23 | 23.11 | 30.00 | | -1.44 | | 21.67 | | 36.00 | | Pass |
| HE20 | MCS0 | full | 2 | 6 | 2437 | 22.84 | 22.55 | 25.71 | 30.00 | | -1.44 | | 24.27 | | 36.00 | | Pass |
| HE20 | MCS0 | 26 | 2 | 6 | 2437 | 16.86 | 17.68 | 20.30 | 30.00 | | -1.44 | | 18.86 | | 36.00 | | Pass |
| HE20 | MCS0 | 52 | 2 | 6 | 2437 | 18.47 | 19.05 | 21.78 | 30.00 | | -1.44 | | 20.34 | | 36.00 | | Pass |
| HE20 | MCS0 | 106 | 2 | 6 | 2437 | 19.75 | 20.43 | 23.11 | 30.00 | | -1.44 | | 21.67 | | 36.00 | | Pass |
| HE20 | MCS0 | full | 2 | 11 | 2462 | 21.83 | 21.36 | 24.61 | 30.00 | | -1.44 | | 23.17 | | 36.00 | | Pass |
| HE20 | MCS0 | 26 | 2 | 11 | 2462 | 14.61 | 15.32 | 17.99 | 30.00 | | -1.44 | | 16.55 | | 36.00 | | Pass |
| HE20 | MCS0 | 52 | 2 | 11 | 2462 | 17.12 | 17.42 | 20.28 | 30.00 | | -1.44 | | 18.84 | | 36.00 | | Pass |
| HE20 | MCS0 | 106 | 2 | 11 | 2462 | 18.97 | 19.09 | 22.04 | 30.00 | | -1.44 | | 20.60 | | 36.00 | | Pass |
| HE40 | MCS0 | full | 2 | 3 | 2422 | 18.58 | 18.73 | 21.67 | 30.00 | | -1.44 | | 20.23 | | 36.00 | | Pass |
| HE40 | MCS0 | full | 2 | 6 | 2437 | 18.85 | 18.63 | 21.75 | 30.00 | | -1.44 | | 20.31 | | 36.00 | | Pass |
| HE40 | MCS0 | full | 2 | 9 | 2452 | 17.24 | 17.51 | 20.39 | 30.00 | | -1.44 | | 18.95 | | 36.00 | | Pass |

# Average Output Power

| 2.4GHz Band | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Mod. | Data Rate | RU Config | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | | Average Conducted Power (dBm) | | |
| | | | | | | Ant 1 | Ant 2 | Ant 1 | Ant 2 | SUM |
| 11b | 1Mbps | - | 2 | 1 | 2412 | 0.09 | 0.09 | 16.63 | 16.22 | 19.44 |
| 11b | 1Mbps | | 2 | 6 | 2437 | 0.09 | 0.09 | 16.60 | 16.18 | 19.41 |
| 11b | 1Mbps | | 2 | 11 | 2462 | 0.09 | 0.09 | 16.90 | 16.16 | 19.56 |
| 11g | 6Mbps | | 2 | 1 | 2412 | 0.04 | 0.03 | 15.95 | 15.72 | 18.85 |
| 11g | 6Mbps | | 2 | 6 | 2437 | 0.04 | 0.03 | 15.58 | 16.30 | 18.97 |
| 11g | 6Mbps | | 2 | 10 | 2457 | 0.04 | 0.03 | 15.58 | 15.18 | 17.35 |
| 11g | 6Mbps | | 2 | 11 | 2462 | 0.04 | 0.03 | 13.29 | 12.74 | 16.04 |
| HT20 | MCS0 | | 2 | 1 | 2412 | 0.00 | 0.00 | 14.67 | 14.39 | 17.54 |
| HT20 | MCS0 | | 2 | 6 | 2437 | 0.00 | 0.00 | 15.23 | 15.07 | 18.16 |
| HT20 | MCS0 | | 2 | 11 | 2462 | 0.00 | 0.00 | 13.94 | 13.59 | 16.78 |
| HT40 | MCS0 | | 2 | 3 | 2422 | 0.00 | 0.00 | 12.39 | 11.98 | 15.20 |
| HT40 | MCS0 | | 2 | 6 | 2437 | 0.00 | 0.00 | 12.74 | 12.63 | 15.70 |
| HT40 | MCS0 | | 2 | 9 | 2452 | 0.00 | 0.00 | 11.06 | 10.89 | 13.99 |
| HE20 | MCS0 | full | 2 | 1 | 2412 | 0.00 | 0.00 | 14.85 | 14.62 | 17.75 |
| HE20 | MCS0 | 26 | 2 | 1 | 2412 | 0.00 | 0.00 | 6.26 | 6.52 | 9.40 |
| HE20 | MCS0 | 52 | 2 | 1 | 2412 | 0.00 | 0.00 | 9.24 | 8.85 | 12.06 |
| HE20 | MCS0 | 106 | 2 | 1 | 2412 | 0.00 | 0.00 | 11.21 | 10.96 | 14.10 |
| HE20 | MCS0 | full | 2 | 6 | 2437 | 0.00 | 0.00 | 15.41 | 15.23 | 18.33 |
| HE20 | MCS0 | 26 | 2 | 6 | 2437 | 0.00 | 0.00 | 6.89 | 7.44 | 10.18 |
| HE20 | MCS0 | 52 | 2 | 6 | 2437 | 0.00 | 0.00 | 9.23 | 9.36 | 12.31 |
| HE20 | MCS0 | 106 | 2 | 6 | 2437 | 0.00 | 0.00 | 11.38 | 11.55 | 14.48 |
| HE20 | MCS0 | full | 2 | 11 | 2462 | 0.00 | 0.00 | 14.14 | 13.64 | 16.91 |
| HE20 | MCS0 | 26 | 2 | 11 | 2462 | 0.00 | 0.00 | 4.43 | 4.97 | 7.72 |
| HE20 | MCS0 | 52 | 2 | 11 | 2462 | 0.00 | 0.00 | 7.18 | 7.37 | 10.29 |
| HE20 | MCS0 | 106 | 2 | 11 | 2462 | 0.00 | 0.00 | 9.78 | 10.03 | 12.92 |
| HE40 | MCS0 | full | 2 | 3 | 2422 | 0.00 | 0.00 | 12.44 | 12.05 | 15.26 |
| HE40 | MCS0 | full | 2 | 6 | 2437 | 0.00 | 0.00 | 12.85 | 12.68 | 15.78 |
| HE40 | MCS0 | full | 2 | 9 | 2452 | 0.00 | 0.00 | 11.07 | 11.01 | 14.05 |

# Appendix B. AC Conducted Emission Test Results

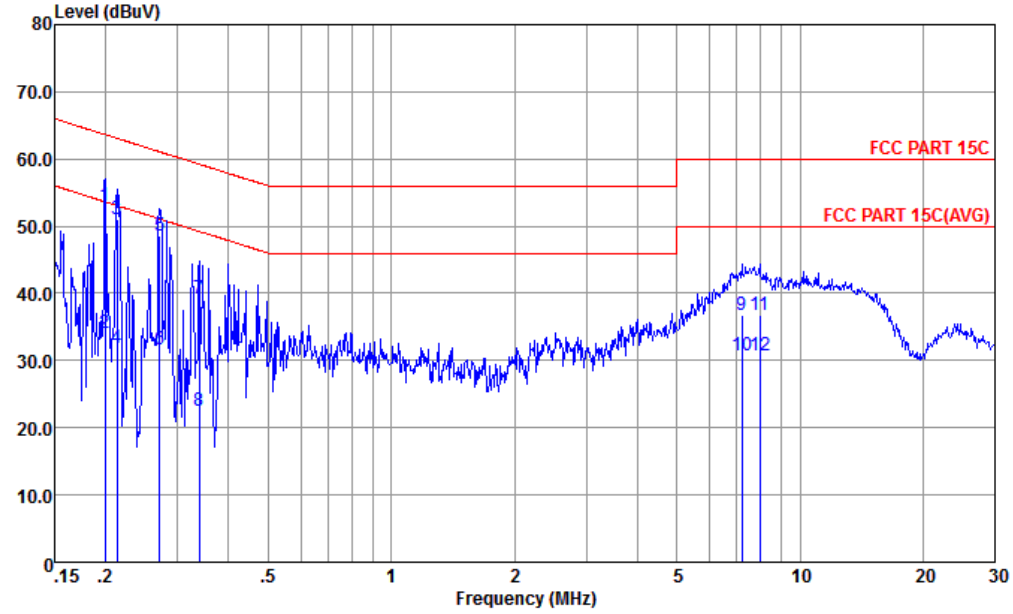
| | | | |
|---|---|---|---|
| **Test Engineer :** | Amos Zhang | **Temperature :** | 25.3~26.2℃ |
| | | **Relative Humidity :** | 38~40% |
| **Test Voltage :** | 120Vac / 60Hz | **Phase :** | Line |
| **Remark :** | All emissions not reported here are more than 10 dB below the prescribed limit. | | |




Site : CO01-KS
Condition : FCC PART 15C LISN-060105-L LINE

| | | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 | | 0.151 | 53.00 | -12.96 | 65.96 | 42.50 | 0.02 | 10.48 | QP |
| 2 | | 0.151 | 37.40 | -18.56 | 55.96 | 26.90 | 0.02 | 10.48 | Average |
| 3 | * | 0.193 | 55.62 | -8.27 | 63.89 | 45.20 | 0.04 | 10.38 | QP |
| 4 | | 0.193 | 36.62 | -17.27 | 53.89 | 26.20 | 0.04 | 10.38 | Average |
| 5 | | 0.206 | 53.70 | -9.66 | 63.36 | 43.30 | 0.04 | 10.36 | QP |
| 6 | | 0.206 | 34.00 | -19.36 | 53.36 | 23.60 | 0.04 | 10.36 | Average |
| 7 | | 0.263 | 51.89 | -9.45 | 61.34 | 41.50 | 0.06 | 10.33 | QP |
| 8 | | 0.263 | 30.99 | -20.35 | 51.34 | 20.60 | 0.06 | 10.33 | Average |
| 9 | | 0.408 | 39.15 | -18.53 | 57.68 | 28.80 | 0.09 | 10.26 | QP |
| 10 | | 0.408 | 22.55 | -25.13 | 47.68 | 12.20 | 0.09 | 10.26 | Average |
| 11 | | 0.491 | 39.14 | -17.00 | 56.14 | 28.80 | 0.10 | 10.24 | QP |
| 12 | | 0.491 | 21.54 | -24.60 | 46.14 | 11.20 | 0.10 | 10.24 | 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 : FCC PART 15C LISN-060105-N NEUTRAL

| | | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|---|---|---|---|---|---|---|---|---|---|
| | | MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 | * | 0.200 | 53.06 | -10.56 | 63.62 | 42.60 | 0.10 | 10.36 | QP |
| 2 | | 0.200 | 34.06 | -19.56 | 53.62 | 23.60 | 0.10 | 10.36 | Average |
| 3 | | 0.213 | 50.96 | -12.14 | 63.10 | 40.50 | 0.10 | 10.36 | QP |
| 4 | | 0.213 | 31.96 | -21.14 | 53.10 | 21.50 | 0.10 | 10.36 | Average |
| 5 | | 0.272 | 48.62 | -12.45 | 61.07 | 38.20 | 0.10 | 10.32 | QP |
| 6 | | 0.272 | 31.62 | -19.45 | 51.07 | 21.20 | 0.10 | 10.32 | Average |
| 7 | | 0.339 | 39.19 | -20.03 | 59.22 | 28.80 | 0.10 | 10.29 | QP |
| 8 | | 0.339 | 22.59 | -26.63 | 49.22 | 12.20 | 0.10 | 10.29 | Average |
| 9 | | 7.213 | 36.71 | -23.29 | 60.00 | 26.20 | 0.20 | 10.31 | QP |
| 10 | | 7.213 | 30.71 | -19.29 | 50.00 | 20.20 | 0.20 | 10.31 | Average |
| 11 | | 7.977 | 36.73 | -23.27 | 60.00 | 26.20 | 0.21 | 10.32 | QP |
| 12 | | 7.977 | 30.83 | -19.17 | 50.00 | 20.30 | 0.21 | 10.32 | 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

| Test Engineer : | Carry Xu | Temperature : | 22~23°C |
|---|---|---|---|
| | | Relative Humidity : | 41~42% |

**2.4GHz 2400~2483.5MHz**

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

| WIFI Ant. | Note | Frequency | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CDD 15+16 | | ( MHz ) | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | ( dBµV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11b CH 01 2412MHz | | 2386.57 | 49.11 | -24.89 | 74 | 45.99 | 32.88 | 7.1 | 36.86 | 100 | 153 | P | H |
| | | 2386.7 | 40.95 | -13.05 | 54 | 37.83 | 32.88 | 7.1 | 36.86 | 100 | 153 | A | H |
| | * | 2414 | 101.63 | - | - | 98.45 | 32.9 | 7.13 | 36.85 | 100 | 153 | P | H |
| | * | 2412 | 99.41 | - | - | 96.23 | 32.9 | 7.13 | 36.85 | 100 | 153 | A | H |
| | | 2386.57 | 51.44 | -22.56 | 74 | 48.32 | 32.88 | 7.1 | 36.86 | 122 | 299 | P | V |
| | | 2386.57 | 44.36 | -9.64 | 54 | 41.24 | 32.88 | 7.1 | 36.86 | 122 | 299 | A | V |
| | * | 2412 | 105.84 | - | - | 102.66 | 32.9 | 7.13 | 36.85 | 122 | 299 | P | V |
| | * | 2412 | 103.26 | - | - | 100.08 | 32.9 | 7.13 | 36.85 | 122 | 299 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

**2.4GHz 2400~2483.5MHz**

**WIFI 802.11b (Harmonic @ 3m)**

| WIFI Ant. | Note | Frequency | Level | Over Limit | Limit Line | Read Level | Antenna Factor | Path Loss | Preamp Factor | Ant Pos | Table Pos | Peak Avg. | Pol. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CDD 15+16 | | ( MHz ) | ( dBµV/m ) | ( dB ) | ( dBµV/m ) | ( dBµV ) | ( dB/m ) | ( dB ) | ( dB ) | ( cm ) | ( deg ) | (P/A) | (H/V) |
| 802.11b CH 01 2412MHz | | 4830 | 40.2 | -33.8 | 74 | 61.13 | 34.2 | 10.25 | 65.38 | 300 | 0 | P | H |
| | | 4830 | 40.85 | -33.15 | 74 | 61.78 | 34.2 | 10.25 | 65.38 | 100 | 0 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## 2.4GHz 2400~2483.5MHz

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

| WIFI Ant. CDD 15+16 | 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 11 2462MHz | * | 2460 | 103.44 | - | - | 100.09 | 32.96 | 7.22 | 36.83 | 304 | 48 | P | H |
| | * | 2456 | 95.78 | - | - | 92.43 | 32.96 | 7.22 | 36.83 | 304 | 48 | A | H |
| | | 2485 | 59.58 | -14.42 | 74 | 56.17 | 32.98 | 7.25 | 36.82 | 304 | 48 | P | H |
| | | 2484.34 | 47.19 | -6.81 | 54 | 43.78 | 32.98 | 7.25 | 36.82 | 304 | 48 | A | H |
| | * | 2456 | 104.67 | - | - | 101.32 | 32.96 | 7.22 | 36.83 | 100 | 114 | P | V |
| | * | 2456 | 96.96 | - | - | 93.61 | 32.96 | 7.22 | 36.83 | 100 | 114 | A | V |
| | | 2484.16 | 62.05 | -11.95 | 74 | 58.64 | 32.98 | 7.25 | 36.82 | 100 | 114 | P | V |
| | | 2484.1 | 50.1 | -3.9 | 54 | 46.69 | 32.98 | 7.25 | 36.82 | 100 | 114 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## 2.4GHz 2400~2483.5MHz

## WIFI 802.11g (Harmonic @ 3m)

| WIFI Ant. CDD 15+16 | 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 11 2462MHz | | 4920 | 39.79 | -34.21 | 74 | 60.64 | 34.26 | 10.34 | 65.45 | 300 | 0 | P | H |
| | | 7380 | 42.66 | -31.34 | 74 | 60.16 | 35.88 | 12.73 | 66.11 | 300 | 0 | P | H |
| | | 4920 | 40.6 | -33.4 | 74 | 61.45 | 34.26 | 10.34 | 65.45 | 100 | 0 | P | V |
| | | 7380 | 41.78 | -32.22 | 74 | 59.28 | 35.88 | 12.73 | 66.11 | 100 | 0 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## 2.4GHz 2400~2483.5MHz

## WIFI 802.11 ax HE20 Full (Band Edge @ 3m)

| WIFI Ant. CDD 15+16 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8802.11ax HE20 Full CH 11 2462MHz | * | 2456 | 106.03 | - | - | 102.68 | 32.96 | 7.22 | 36.83 | 304 | 55 | P | H |
| | * | 2458 | 97.38 | - | - | 94.03 | 32.96 | 7.22 | 36.83 | 304 | 55 | A | H |
| | | 2483.68 | 60.89 | -13.11 | 74 | 57.48 | 32.98 | 7.25 | 36.82 | 304 | 55 | P | H |
| | | 2483.5 | 48.58 | -5.42 | 54 | 45.17 | 32.98 | 7.25 | 36.82 | 304 | 55 | A | H |
| | * | 2458 | 107.02 | - | - | 103.67 | 32.96 | 7.22 | 36.83 | 100 | 72 | P | V |
| | * | 2458 | 97.94 | - | - | 94.59 | 32.96 | 7.22 | 36.83 | 100 | 72 | A | V |
| | | 2484.64 | 59.33 | -14.67 | 74 | 55.92 | 32.98 | 7.25 | 36.82 | 100 | 72 | P | V |
| | | 2483.5 | 50.36 | -3.64 | 54 | 46.95 | 32.98 | 7.25 | 36.82 | 100 | 72 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## 2.4GHz 2400~2483.5MHz

## WIFI 802.11 ax HE20 Full (Harmonic @ 3m)

| WIFI Ant. CDD 15+16 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE20 Full CH 11 2462MHz | | 4920 | 41.51 | -32.49 | 74 | 62.36 | 34.26 | 10.34 | 65.45 | 300 | 0 | P | H |
| | | 7380 | 41.93 | -32.07 | 74 | 59.43 | 35.88 | 12.73 | 66.11 | 300 | 0 | P | H |
| | | 4920 | 40.25 | -33.75 | 74 | 61.1 | 34.26 | 10.34 | 65.45 | 100 | 0 | P | V |
| | | 7380 | 42.29 | -31.71 | 74 | 59.79 | 35.88 | 12.73 | 66.11 | 100 | 0 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## 2.4GHz 2400~2483.5MHz

## WIFI 802.11ax HE20 Partial 26 (Band Edge @ 3m)

| WIFI Ant. CDD 15+16 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE20 Partial 26/8 CH 11 2462MHz | | 2488.12 | 49.43 | -24.57 | 74 | 45.99 | 33 | 7.25 | 36.81 | 208 | 52 | P | H |
| | | 2484.22 | 37.99 | -16.01 | 54 | 34.58 | 32.98 | 7.25 | 36.82 | 208 | 52 | A | H |
| | | 2470 | 105.49 | - | - | 102.14 | 32.96 | 7.22 | 36.83 | 208 | 52 | P | H |
| | | 2470 | 96.32 | - | - | 92.97 | 32.96 | 7.22 | 36.83 | 208 | 52 | A | H |
| | | 2499.52 | 49.3 | -24.7 | 74 | 45.83 | 33 | 7.28 | 36.81 | 124 | 59 | P | V |
| | | 2484.04 | 37.95 | -16.05 | 54 | 34.54 | 32.98 | 7.25 | 36.82 | 124 | 59 | A | V |
| | | 2470 | 106.12 | - | - | 102.77 | 32.96 | 7.22 | 36.83 | 124 | 59 | P | V |
| | | 2470 | 96.82 | - | - | 93.47 | 32.96 | 7.22 | 36.83 | 124 | 59 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## 2.4GHz 2400~2483.5MHz

## WIFI 802.11ax HE20 Partial 52 (Band Edge @ 3m)

| WIFI Ant. CDD 15+16 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE20 Partial 52/40 CH 11 2462MHz | | 2483.62 | 53.14 | -20.86 | 74 | 49.73 | 32.98 | 7.25 | 36.82 | 294 | 48 | P | H |
| | | 2484.28 | 38.17 | -15.83 | 54 | 34.76 | 32.98 | 7.25 | 36.82 | 294 | 48 | A | H |
| | | 2470 | 105.42 | - | - | 102.07 | 32.96 | 7.22 | 36.83 | 294 | 48 | P | H |
| | | 2468 | 96.07 | - | - | 92.72 | 32.96 | 7.22 | 36.83 | 294 | 48 | A | H |
| | | 2483.62 | 52.12 | -21.88 | 74 | 48.71 | 32.98 | 7.25 | 36.82 | 123 | 61 | P | V |
| | | 2484.04 | 38.15 | -15.85 | 54 | 34.74 | 32.98 | 7.25 | 36.82 | 123 | 61 | A | V |
| | | 2468 | 107.22 | - | - | 103.87 | 32.96 | 7.22 | 36.83 | 123 | 61 | P | V |
| | | 2468 | 97.63 | - | - | 94.28 | 32.96 | 7.22 | 36.83 | 123 | 61 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## 2.4GHz 2400~2483.5MHz

## WIFI 802.11ax HE20 Partial 106 (Band Edge @ 3m)

| WIFI Ant. CDD 15+16 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2483.5 | 59.51 | -14.49 | 74 | 56.1 | 32.98 | 7.25 | 36.82 | 294 | 47 | P | H |
| 802.11ax | | 2483.5 | 38.68 | -15.32 | 54 | 35.27 | 32.98 | 7.25 | 36.82 | 294 | 47 | A | H |
| HE20 | | 2468 | 105.58 | - | - | 102.23 | 32.96 | 7.22 | 36.83 | 294 | 47 | P | H |
| Partial | | 2468 | 95.59 | - | - | 92.24 | 32.96 | 7.22 | 36.83 | 294 | 47 | A | H |
| 106/54 | | 2483.56 | 58.18 | -15.82 | 74 | 54.77 | 32.98 | 7.25 | 36.82 | 124 | 59 | P | V |
| CH 11 | | 2483.62 | 38.49 | -15.51 | 54 | 35.08 | 32.98 | 7.25 | 36.82 | 124 | 59 | A | V |
| 2462MHz | | 2470 | 106.28 | - | - | 102.93 | 32.96 | 7.22 | 36.83 | 124 | 59 | P | V |
| | | 2468 | 97.08 | - | - | 93.73 | 32.96 | 7.22 | 36.83 | 124 | 59 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## 2.4GHz 2400~2483.5MHz

## WIFI 802.11 ax HE40 Full (Band Edge @ 3m)

| WIFI Ant. CDD 15+16 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 2389.69 | 52.42 | -21.58 | 74 | 49.3 | 32.88 | 7.1 | 36.86 | 271 | 129 | P | H |
| | | 2389.95 | 41.66 | -12.34 | 54 | 38.54 | 32.88 | 7.1 | 36.86 | 271 | 129 | A | H |
| | * | 2432 | 102.08 | - | - | 98.85 | 32.92 | 7.16 | 36.85 | 271 | 129 | P | H |
| | * | 2422 | 92.41 | - | - | 89.18 | 32.92 | 7.16 | 36.85 | 271 | 129 | A | H |
| 802.11ax | | 2483.62 | 59.1 | -14.9 | 74 | 55.69 | 32.98 | 7.25 | 36.82 | 271 | 129 | P | H |
| HE40 Full | | 2483.5 | 47.17 | -6.83 | 54 | 43.76 | 32.98 | 7.25 | 36.82 | 271 | 129 | A | H |
| CH 06 | | 2389.82 | 53.56 | -20.44 | 74 | 50.44 | 32.88 | 7.1 | 36.86 | 100 | 68 | P | V |
| 2437MHz | | 2389.95 | 42.66 | -11.34 | 54 | 39.54 | 32.88 | 7.1 | 36.86 | 100 | 68 | A | V |
| | * | 2434 | 103.9 | - | - | 100.67 | 32.92 | 7.16 | 36.85 | 100 | 68 | P | V |
| | * | 2424 | 94.37 | - | - | 91.14 | 32.92 | 7.16 | 36.85 | 100 | 68 | A | V |
| | | 2484.46 | 64.4 | -9.6 | 74 | 60.99 | 32.98 | 7.25 | 36.82 | 100 | 68 | P | V |
| | | 2483.5 | 50.3 | -3.7 | 54 | 46.89 | 32.98 | 7.25 | 36.82 | 100 | 68 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

## 2.4GHz 2400~2483.5MHz

## WIFI 802.11 ax HE40 Full (Harmonic @ 3m)

| WIFI Ant. CDD 15+16 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE40 Full CH 06 2437MHz | | 4875 | 40.78 | -33.22 | 74 | 61.68 | 34.23 | 10.29 | 65.42 | 300 | 0 | P | H |
| | | 7305 | 42.27 | -31.73 | 74 | 59.6 | 35.86 | 12.72 | 65.91 | 300 | 0 | P | H |
| | | 4875 | 40.09 | -33.91 | 74 | 60.99 | 34.23 | 10.29 | 65.42 | 100 | 0 | P | V |
| | | 7305 | 42.61 | -31.39 | 74 | 59.94 | 35.86 | 12.72 | 65.91 | 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 802.11ax HE20 (LF)

| WIFI Ant. CDD 15+16 | 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 802.11ax HE20 LF | | 64.92 | 17.96 | -22.04 | 40 | 36.55 | 13.3 | 1.21 | 33.1 | - | - | P | H |
| | | 191.99 | 24.21 | -19.29 | 43.5 | 38.66 | 16.49 | 2.11 | 33.05 | - | - | P | H |
| | | 302.57 | 26.33 | -19.67 | 46 | 36.31 | 20.27 | 2.65 | 32.9 | - | - | P | H |
| | | 432.55 | 26.62 | -19.38 | 46 | 32.89 | 23.29 | 3.17 | 32.73 | - | - | P | H |
| | | 560.59 | 27.51 | -18.49 | 46 | 30.66 | 25.82 | 3.61 | 32.58 | - | - | P | H |
| | | 800.18 | 29.28 | -16.72 | 46 | 30.56 | 26.9 | 4.32 | 32.5 | - | - | P | H |
| | | 48.43 | 21.62 | -18.38 | 40 | 37.77 | 15.77 | 1.05 | 32.97 | - | - | P | V |
| | | 232.73 | 20.17 | -25.83 | 46 | 32.61 | 18.33 | 2.33 | 33.1 | - | - | P | V |
| | | 399.57 | 25.36 | -20.64 | 46 | 32.41 | 22.7 | 3.05 | 32.8 | - | - | P | V |
| | | 571.26 | 27.44 | -18.56 | 46 | 30.62 | 25.73 | 3.65 | 32.56 | - | - | P | V |
| | | 665.35 | 29.92 | -16.08 | 46 | 32.87 | 25.84 | 3.94 | 32.73 | - | - | P | V |
| | | 778.84 | 30.55 | -15.45 | 46 | 32.13 | 26.73 | 4.27 | 32.58 | - | - | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against limit line. | | | | | | | | | | | | |

## Co-location

### 2.4GHz 2400~2483.5MHz

### WIFI 802.11 ax HE20 Full&LTE Band41 BW=20M (Band Edge @ 3m)

| WIFI Ant. CDD 15+16 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8802.11ax HE20 Full CH 11 2462MHz | * | 2483.8 | 61.53 | -12.47 | 74 | 58.12 | 32.98 | 7.25 | 36.82 | 112 | 37 | P | H |
| | * | 2483.5 | 49.82 | -4.18 | 54 | 46.41 | 32.98 | 7.25 | 36.82 | 112 | 37 | A | H |
| | | 2462 | 106.54 | - | - | 103.19 | 32.96 | 7.22 | 36.83 | 112 | 37 | P | H |
| | | 2460 | 96.54 | - | - | 93.19 | 32.96 | 7.22 | 36.83 | 112 | 37 | A | H |
| | * | 2483.92 | 60.13 | -13.87 | 74 | 56.72 | 32.98 | 7.25 | 36.82 | 100 | 112 | P | V |
| | * | 2483.5 | 48.63 | -5.37 | 54 | 45.22 | 32.98 | 7.25 | 36.82 | 100 | 112 | A | V |
| | | 2458 | 106.95 | - | - | 103.6 | 32.96 | 7.22 | 36.83 | 100 | 112 | P | V |
| | | 2458 | 99.19 | - | - | 95.84 | 32.96 | 7.22 | 36.83 | 100 | 112 | A | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average limit line. | | | | | | | | | | | | |

### 2.4GHz 2400~2483.5MHz

### WIFI 802.11 ax HE20 Full&LTE Band41 BW=20M (Harmonic @ 3m)

| WIFI Ant. CDD 15+16 | 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) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 802.11ax HE20 Full CH 11 2462MHz | | 4920 | 40.16 | -33.84 | 74 | 61.01 | 34.26 | 10.34 | 65.45 | 300 | 0 | P | H |
| | | 7380 | 41.94 | -32.06 | 74 | 59.44 | 35.88 | 12.73 | 66.11 | 300 | 0 | P | H |
| | | 4920 | 41.02 | -32.98 | 74 | 61.87 | 34.26 | 10.34 | 65.45 | 100 | 0 | P | V |
| | | 7380 | 41.56 | -32.44 | 74 | 59.06 | 35.88 | 12.73 | 66.11 | 100 | 0 | P | V |
| Remark | 1. No other spurious found.<br>2. All results are PASS against Peak and Average 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. | |
| CDD 15+16 | | ( 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)

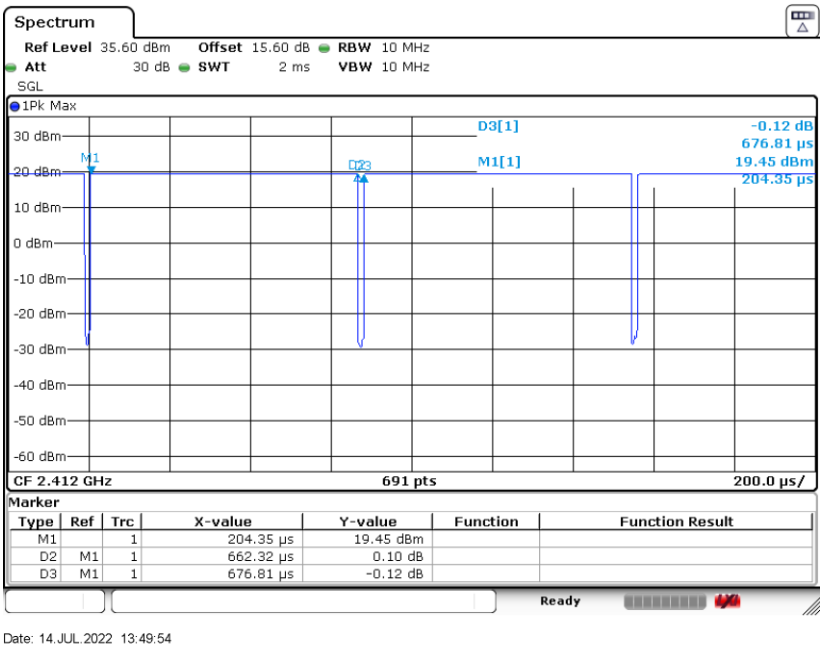
= -10.46(dB)

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

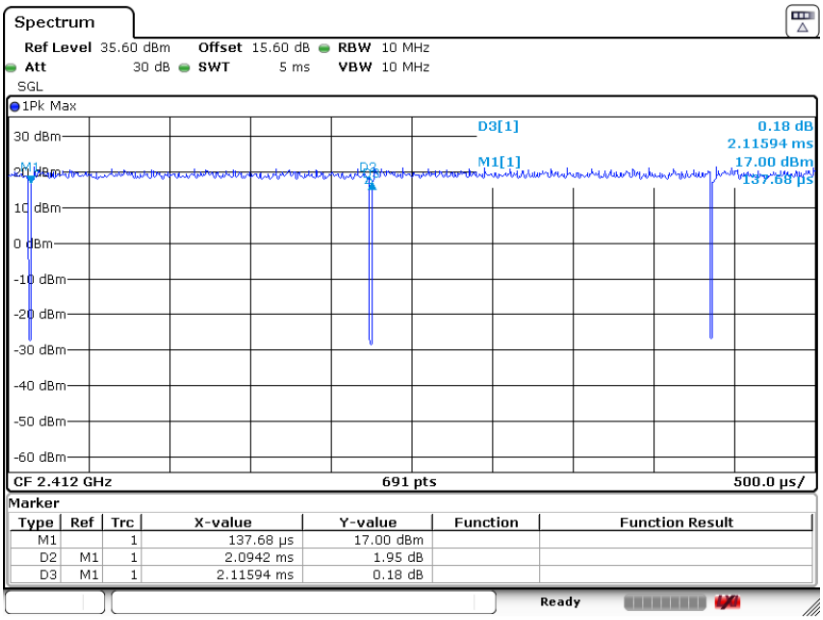
# Appendix D. Duty Cycle Plots

| Band | Duty Cycle(%) | T(ms) | 1/T(kHz) | VBW Setting |
|---|---|---|---|---|
| 802.11b | 97.86 | 0.662 | 1.510 | 1.51Hz |
| 802.11g | 98.97 | - | - | 10Hz |
| 802.11ax HE20 | 100 | - | - | 10Hz |
| 802.11ax HE40 | 100 | - | - | 10Hz |
| 802.11axHE20-2412-26ru | 100 | - | - | 10Hz |
| 802.11axHE20-2412-52ru | 100 | - | - | 10Hz |
| 802.11axHE20-2412-106ru | 100 | - | - | 10Hz |

**802.11b**

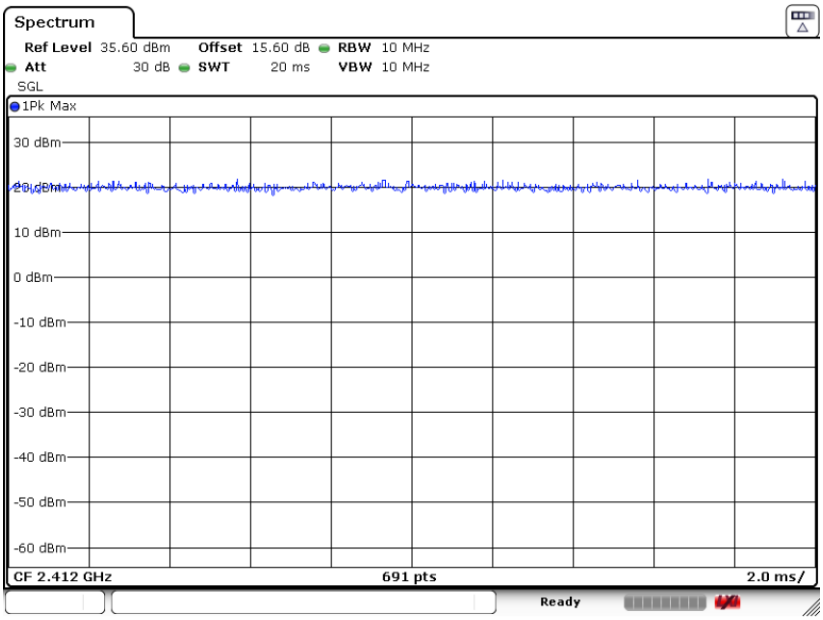


### 802.11g




Date: 14.JUL.2022 13:41:42

### 802.11ax HE20

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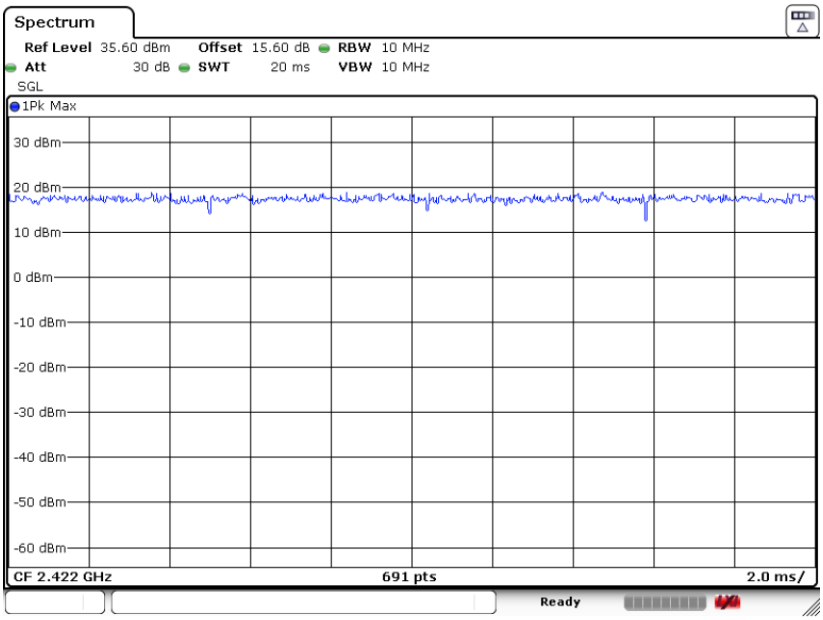
### 802.11ax HE40

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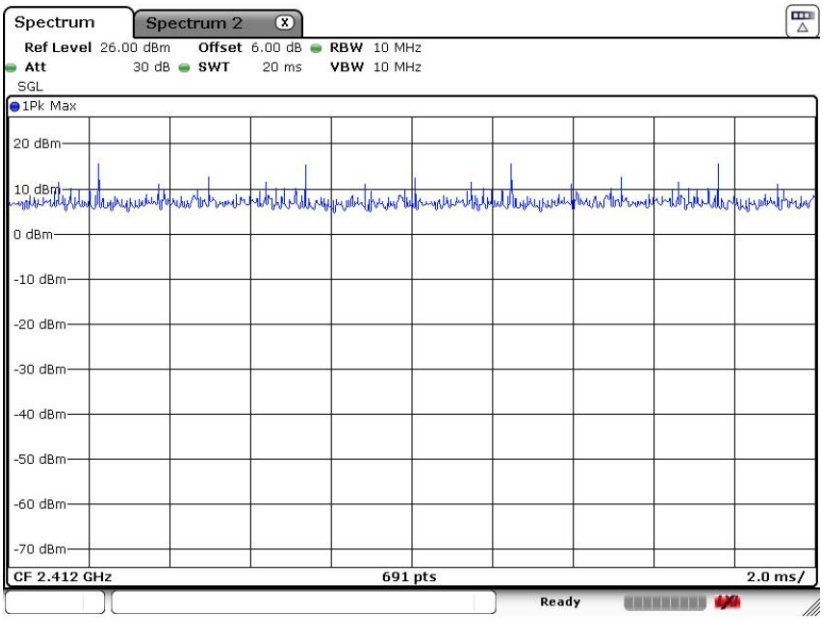


Date: 11.AUG.2022 13:45:50

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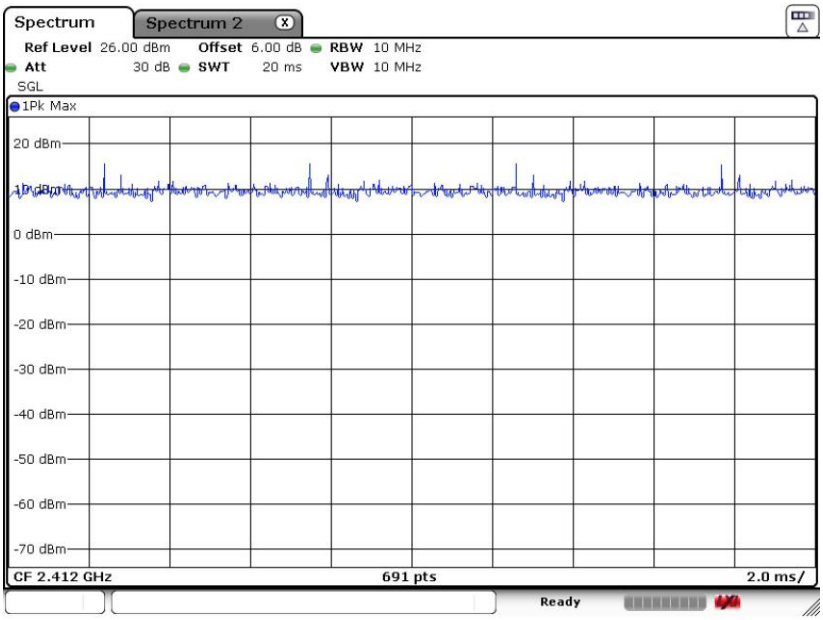
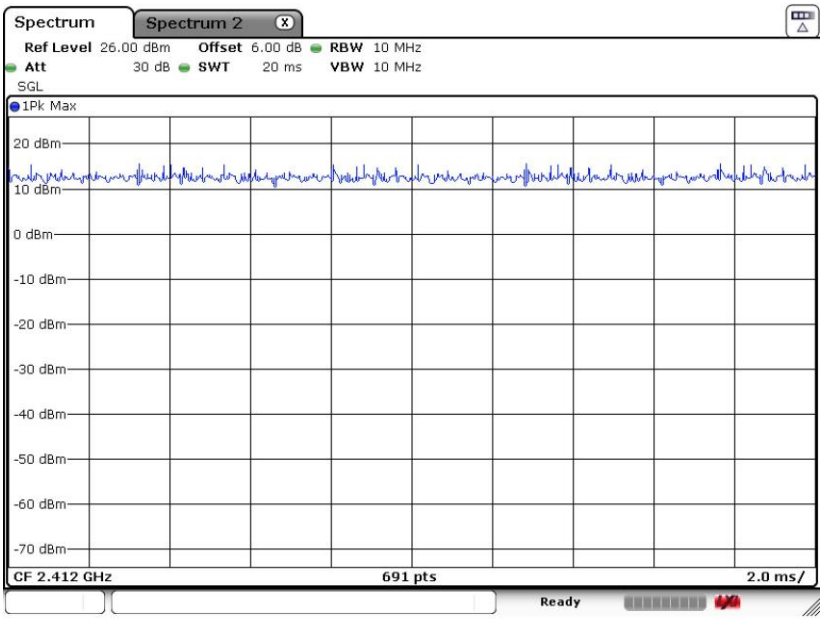



Date: 11.AUG.2022 13:45:07

### 802.11ax HE20-2412-106ru

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