



**TEST REPORT**

16. Emission outside the frequency band

16.1 Test Data

| WLAN Transmitter Spurious Emission |                      |      |          |                  |                |        |
|------------------------------------|----------------------|------|----------|------------------|----------------|--------|
| Mode                               | Test Frequency (MHz) | Ant  | Plot No. | Frequency Range  | Emission (dBm) | Result |
| 802.11b                            | 2412                 | Ant0 | 1        | Reference Level  | 9.39           | Pass   |
| 802.11b                            | 2412                 | Ant0 | 2        | Band Edge        | -33.55         | Pass   |
| 802.11b                            | 2412                 | Ant0 | 3        | 30MHz~2310MHz    | -55.65         | Pass   |
| 802.11b                            | 2412                 | Ant0 | 4        | 2500MHz~5000MHz  | -46.37         | Pass   |
| 802.11b                            | 2412                 | Ant0 | 5        | 5000MHz~25000MHz | -42.71         | Pass   |
| 802.11b                            | 2412                 | Ant1 | 1        | Reference Level  | 8.81           | Pass   |
| 802.11b                            | 2412                 | Ant1 | 2        | Band Edge        | -34.60         | Pass   |
| 802.11b                            | 2412                 | Ant1 | 3        | 30MHz~2310MHz    | -56.10         | Pass   |
| 802.11b                            | 2412                 | Ant1 | 4        | 2500MHz~5000MHz  | -42.61         | Pass   |
| 802.11b                            | 2412                 | Ant1 | 5        | 5000MHz~25000MHz | -43.26         | Pass   |
| 802.11b                            | 2437                 | Ant0 | 1        | Reference Level  | 9.31           | Pass   |
| 802.11b                            | 2437                 | Ant0 | 2        | Band Edge        | -47.99         | Pass   |
| 802.11b                            | 2437                 | Ant0 | 3        | 30MHz~2310MHz    | -55.93         | Pass   |
| 802.11b                            | 2437                 | Ant0 | 4        | 2500MHz~5000MHz  | -47.42         | Pass   |
| 802.11b                            | 2437                 | Ant0 | 5        | 5000MHz~25000MHz | -42.04         | Pass   |
| 802.11b                            | 2437                 | Ant1 | 1        | Reference Level  | 8.82           | Pass   |
| 802.11b                            | 2437                 | Ant1 | 2        | Band Edge        | -47.89         | Pass   |
| 802.11b                            | 2437                 | Ant1 | 3        | 30MHz~2310MHz    | -55.97         | Pass   |
| 802.11b                            | 2437                 | Ant1 | 4        | 2500MHz~5000MHz  | -43.86         | Pass   |
| 802.11b                            | 2437                 | Ant1 | 5        | 5000MHz~25000MHz | -42.14         | Pass   |
| 802.11b                            | 2462                 | Ant0 | 1        | Reference Level  | 9.00           | Pass   |
| 802.11b                            | 2462                 | Ant0 | 2        | Band Edge        | -46.88         | Pass   |
| 802.11b                            | 2462                 | Ant0 | 3        | 30MHz~2310MHz    | -55.71         | Pass   |
| 802.11b                            | 2462                 | Ant0 | 4        | 2500MHz~5000MHz  | -47.67         | Pass   |
| 802.11b                            | 2462                 | Ant0 | 5        | 5000MHz~25000MHz | -43.01         | Pass   |
| 802.11b                            | 2462                 | Ant1 | 1        | Reference Level  | 9.58           | Pass   |

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|         |      |      |   |                  |        |      |
|---------|------|------|---|------------------|--------|------|
| 802.11b | 2462 | Ant1 | 2 | Band Edge        | -46.57 | Pass |
| 802.11b | 2462 | Ant1 | 3 | 30MHz~2310MHz    | -55.47 | Pass |
| 802.11b | 2462 | Ant1 | 4 | 2500MHz~5000MHz  | -42.70 | Pass |
| 802.11b | 2462 | Ant1 | 5 | 5000MHz~25000MHz | -42.97 | Pass |
| 802.11g | 2412 | Ant0 | 1 | Reference Level  | 6.78   | Pass |
| 802.11g | 2412 | Ant0 | 2 | Band Edge        | -26.25 | Pass |
| 802.11g | 2412 | Ant0 | 3 | 30MHz~2310MHz    | -54.35 | Pass |
| 802.11g | 2412 | Ant0 | 4 | 2500MHz~5000MHz  | -51.40 | Pass |
| 802.11g | 2412 | Ant0 | 5 | 5000MHz~25000MHz | -43.08 | Pass |
| 802.11g | 2412 | Ant1 | 1 | Reference Level  | 7.02   | Pass |
| 802.11g | 2412 | Ant1 | 2 | Band Edge        | -27.84 | Pass |
| 802.11g | 2412 | Ant1 | 3 | 30MHz~2310MHz    | -55.54 | Pass |
| 802.11g | 2412 | Ant1 | 4 | 2500MHz~5000MHz  | -52.29 | Pass |
| 802.11g | 2412 | Ant1 | 5 | 5000MHz~25000MHz | -42.78 | Pass |
| 802.11g | 2437 | Ant0 | 1 | Reference Level  | 7.21   | Pass |
| 802.11g | 2437 | Ant0 | 2 | Band Edge        | -46.12 | Pass |
| 802.11g | 2437 | Ant0 | 3 | 30MHz~2310MHz    | -52.60 | Pass |
| 802.11g | 2437 | Ant0 | 4 | 2500MHz~5000MHz  | -49.85 | Pass |
| 802.11g | 2437 | Ant0 | 5 | 5000MHz~25000MHz | -42.46 | Pass |
| 802.11g | 2437 | Ant1 | 1 | Reference Level  | 7.16   | Pass |
| 802.11g | 2437 | Ant1 | 2 | Band Edge        | -48.04 | Pass |
| 802.11g | 2437 | Ant1 | 3 | 30MHz~2310MHz    | -53.27 | Pass |
| 802.11g | 2437 | Ant1 | 4 | 2500MHz~5000MHz  | -50.84 | Pass |
| 802.11g | 2437 | Ant1 | 5 | 5000MHz~25000MHz | -42.82 | Pass |
| 802.11g | 2462 | Ant0 | 1 | Reference Level  | 6.91   | Pass |
| 802.11g | 2462 | Ant0 | 2 | Band Edge        | -40.31 | Pass |
| 802.11g | 2462 | Ant0 | 3 | 30MHz~2310MHz    | -54.77 | Pass |
| 802.11g | 2462 | Ant0 | 4 | 2500MHz~5000MHz  | -46.30 | Pass |
| 802.11g | 2462 | Ant0 | 5 | 5000MHz~25000MHz | -42.90 | Pass |
| 802.11g | 2462 | Ant1 | 1 | Reference Level  | 6.50   | Pass |
| 802.11g | 2462 | Ant1 | 2 | Band Edge        | -41.12 | Pass |
| 802.11g | 2462 | Ant1 | 3 | 30MHz~2310MHz    | -52.04 | Pass |

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|                |      |      |   |                  |        |      |
|----------------|------|------|---|------------------|--------|------|
| 802.11g        | 2462 | Ant1 | 4 | 2500MHz~5000MHz  | -48.06 | Pass |
| 802.11g        | 2462 | Ant1 | 5 | 5000MHz~25000MHz | -42.88 | Pass |
| 802.11n (HT20) | 2412 | Ant0 | 1 | Reference Level  | 4.80   | Pass |
| 802.11n (HT20) | 2412 | Ant0 | 2 | Band Edge        | -38.26 | Pass |
| 802.11n (HT20) | 2412 | Ant0 | 3 | 30MHz~2310MHz    | -55.86 | Pass |
| 802.11n (HT20) | 2412 | Ant0 | 4 | 2500MHz~5000MHz  | -51.44 | Pass |
| 802.11n (HT20) | 2412 | Ant0 | 5 | 5000MHz~25000MHz | -43.12 | Pass |
| 802.11n (HT20) | 2412 | Ant1 | 1 | Reference Level  | 6.79   | Pass |
| 802.11n (HT20) | 2412 | Ant1 | 2 | Band Edge        | -26.87 | Pass |
| 802.11n (HT20) | 2412 | Ant1 | 3 | 30MHz~2310MHz    | -54.96 | Pass |
| 802.11n (HT20) | 2412 | Ant1 | 4 | 2500MHz~5000MHz  | -51.12 | Pass |
| 802.11n (HT20) | 2412 | Ant1 | 5 | 5000MHz~25000MHz | -43.06 | Pass |
| 802.11n (HT20) | 2437 | Ant0 | 1 | Reference Level  | 5.13   | Pass |
| 802.11n (HT20) | 2437 | Ant0 | 2 | Band Edge        | -45.48 | Pass |
| 802.11n (HT20) | 2437 | Ant0 | 3 | 30MHz~2310MHz    | -55.82 | Pass |
| 802.11n (HT20) | 2437 | Ant0 | 4 | 2500MHz~5000MHz  | -48.18 | Pass |
| 802.11n (HT20) | 2437 | Ant0 | 5 | 5000MHz~25000MHz | -42.80 | Pass |
| 802.11n (HT20) | 2437 | Ant1 | 1 | Reference Level  | 7.18   | Pass |
| 802.11n (HT20) | 2437 | Ant1 | 2 | Band Edge        | -47.32 | Pass |
| 802.11n (HT20) | 2437 | Ant1 | 3 | 30MHz~2310MHz    | -54.88 | Pass |
| 802.11n (HT20) | 2437 | Ant1 | 4 | 2500MHz~5000MHz  | -51.65 | Pass |
| 802.11n (HT20) | 2437 | Ant1 | 5 | 5000MHz~25000MHz | -42.49 | Pass |
| 802.11n (HT20) | 2462 | Ant0 | 1 | Reference Level  | 5.00   | Pass |
| 802.11n (HT20) | 2462 | Ant0 | 2 | Band Edge        | -43.72 | Pass |
| 802.11n (HT20) | 2462 | Ant0 | 3 | 30MHz~2310MHz    | -55.57 | Pass |
| 802.11n (HT20) | 2462 | Ant0 | 4 | 2500MHz~5000MHz  | -45.89 | Pass |
| 802.11n (HT20) | 2462 | Ant0 | 5 | 5000MHz~25000MHz | -42.88 | Pass |
| 802.11n (HT20) | 2462 | Ant1 | 1 | Reference Level  | 7.19   | Pass |
| 802.11n (HT20) | 2462 | Ant1 | 2 | Band Edge        | -38.21 | Pass |
| 802.11n (HT20) | 2462 | Ant1 | 3 | 30MHz~2310MHz    | -52.58 | Pass |
| 802.11n (HT20) | 2462 | Ant1 | 4 | 2500MHz~5000MHz  | -47.60 | Pass |
| 802.11n (HT20) | 2462 | Ant1 | 5 | 5000MHz~25000MHz | -42.78 | Pass |

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|                |      |      |   |                  |        |      |
|----------------|------|------|---|------------------|--------|------|
| 802.11n (HT40) | 2422 | Ant0 | 1 | Reference Level  | 2.04   | Pass |
| 802.11n (HT40) | 2422 | Ant0 | 2 | Band Edge        | -36.09 | Pass |
| 802.11n (HT40) | 2422 | Ant0 | 3 | 30MHz~2310MHz    | -55.93 | Pass |
| 802.11n (HT40) | 2422 | Ant0 | 4 | 2500MHz~5000MHz  | -51.33 | Pass |
| 802.11n (HT40) | 2422 | Ant0 | 5 | 5000MHz~25000MHz | -42.58 | Pass |
| 802.11n (HT40) | 2422 | Ant1 | 1 | Reference Level  | 4.36   | Pass |
| 802.11n (HT40) | 2422 | Ant1 | 2 | Band Edge        | -28.82 | Pass |
| 802.11n (HT40) | 2422 | Ant1 | 3 | 30MHz~2310MHz    | -54.52 | Pass |
| 802.11n (HT40) | 2422 | Ant1 | 4 | 2500MHz~5000MHz  | -50.97 | Pass |
| 802.11n (HT40) | 2422 | Ant1 | 5 | 5000MHz~25000MHz | -43.22 | Pass |
| 802.11n (HT40) | 2437 | Ant0 | 1 | Reference Level  | 2.05   | Pass |
| 802.11n (HT40) | 2437 | Ant0 | 2 | Band Edge        | -42.44 | Pass |
| 802.11n (HT40) | 2437 | Ant0 | 3 | 30MHz~2310MHz    | -56.22 | Pass |
| 802.11n (HT40) | 2437 | Ant0 | 4 | 2500MHz~5000MHz  | -50.87 | Pass |
| 802.11n (HT40) | 2437 | Ant0 | 5 | 5000MHz~25000MHz | -42.73 | Pass |
| 802.11n (HT40) | 2437 | Ant1 | 1 | Reference Level  | 4.44   | Pass |
| 802.11n (HT40) | 2437 | Ant1 | 2 | Band Edge        | -36.60 | Pass |
| 802.11n (HT40) | 2437 | Ant1 | 3 | 30MHz~2310MHz    | -51.87 | Pass |
| 802.11n (HT40) | 2437 | Ant1 | 4 | 2500MHz~5000MHz  | -50.42 | Pass |
| 802.11n (HT40) | 2437 | Ant1 | 5 | 5000MHz~25000MHz | -42.79 | Pass |
| 802.11n (HT40) | 2452 | Ant0 | 1 | Reference Level  | 2.00   | Pass |
| 802.11n (HT40) | 2452 | Ant0 | 2 | Band Edge        | -39.64 | Pass |
| 802.11n (HT40) | 2452 | Ant0 | 3 | 30MHz~2310MHz    | -54.36 | Pass |
| 802.11n (HT40) | 2452 | Ant0 | 4 | 2500MHz~5000MHz  | -43.66 | Pass |
| 802.11n (HT40) | 2452 | Ant0 | 5 | 5000MHz~25000MHz | -42.87 | Pass |
| 802.11n (HT40) | 2452 | Ant1 | 1 | Reference Level  | 4.20   | Pass |
| 802.11n (HT40) | 2452 | Ant1 | 2 | Band Edge        | -30.32 | Pass |
| 802.11n (HT40) | 2452 | Ant1 | 3 | 30MHz~2310MHz    | -53.84 | Pass |
| 802.11n (HT40) | 2452 | Ant1 | 4 | 2500MHz~5000MHz  | -45.76 | Pass |
| 802.11n (HT40) | 2452 | Ant1 | 5 | 5000MHz~25000MHz | -43.18 | Pass |

## 9.2 Test Plots















