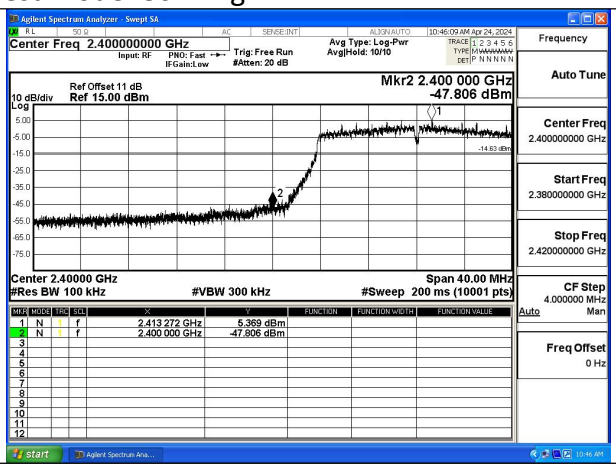
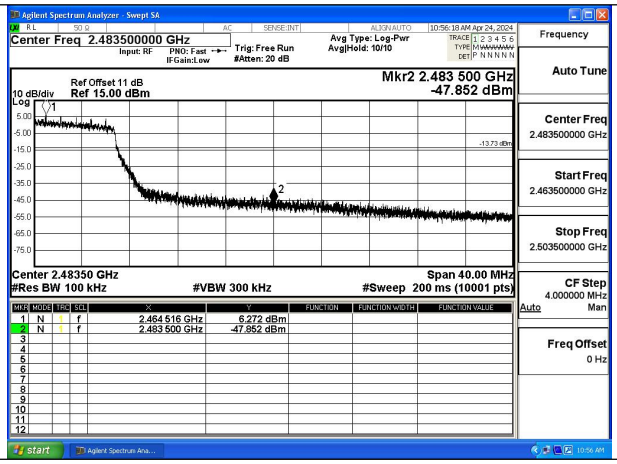
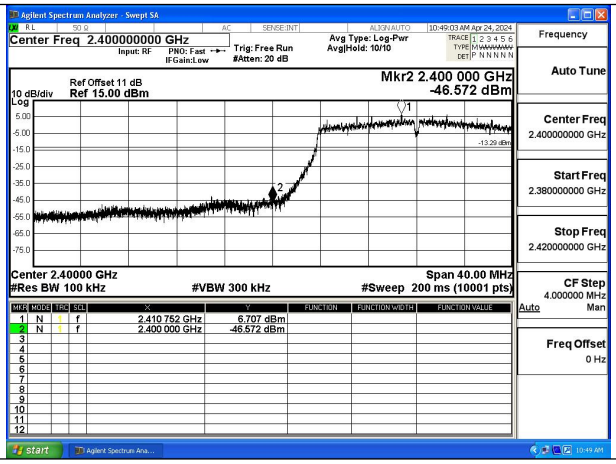
Test Mode: 802.11g



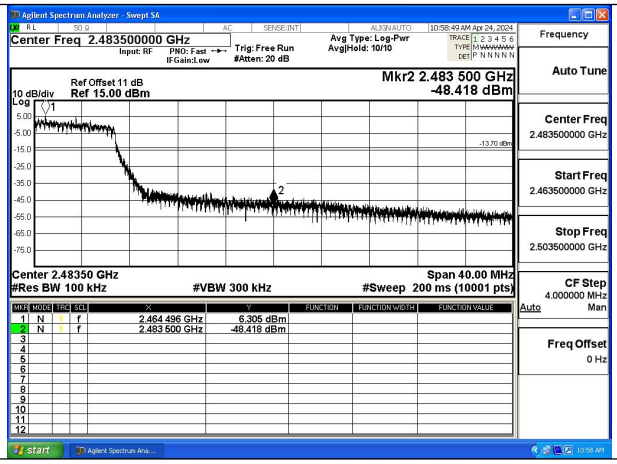

Mode:802.11g Frequency:2412MHz Ant:Chain0




Mode:802.11g Frequency:2462MHz Ant:Chain0

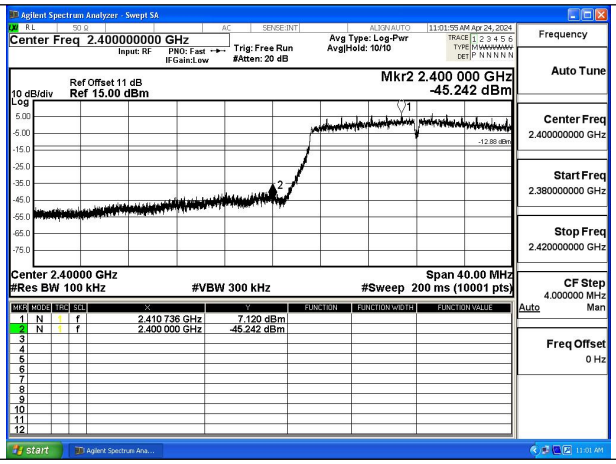



Mode:802.11g Frequency:2412MHz Ant:Chain1

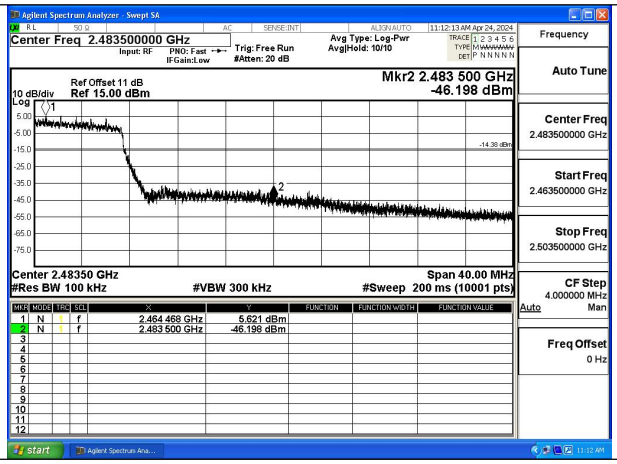



Mode:802.11g Frequency:2462MHz Ant:Chain1

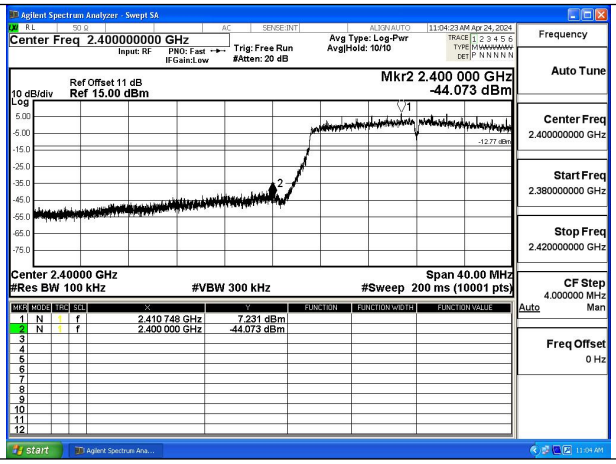
Test Mode: 802.11n HT20



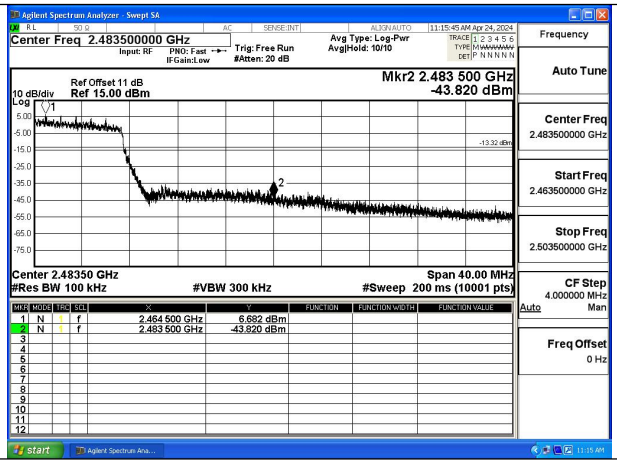

Mode:802.11n HT20 Frequency:2412MHz Ant:Chain0




Mode:802.11n HT20 Frequency:2462MHz Ant:Chain0

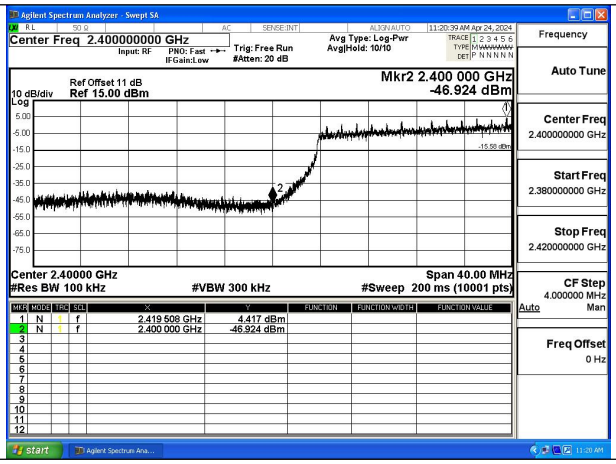



Mode:802.11n HT20 Frequency:2412MHz Ant:Chain1

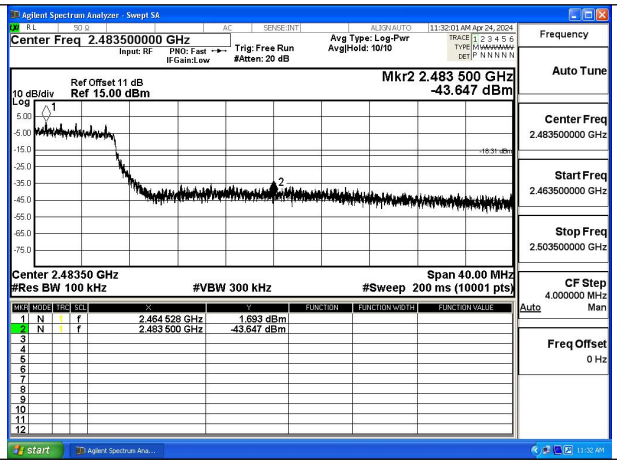



Mode:802.11n HT20 Frequency:2462MHz Ant:Chain1

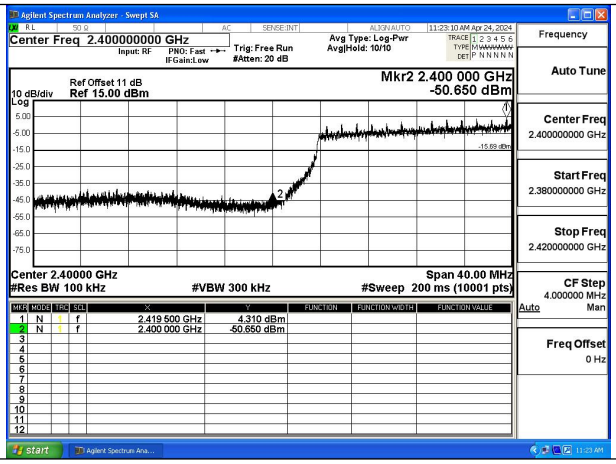
Test Mode: 802.11n HT40



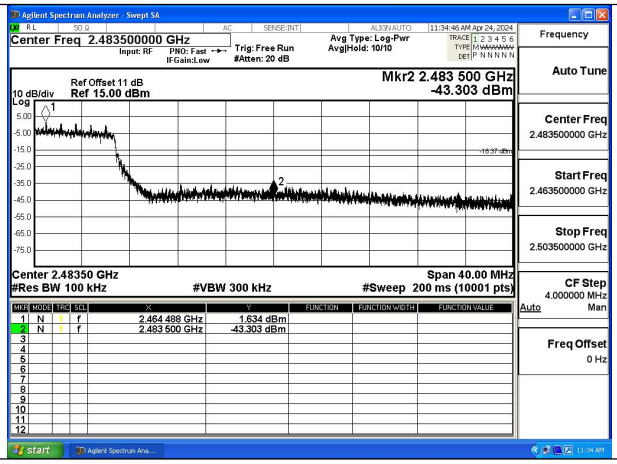

Mode:802.11n HT40 Frequency:2422MHz Ant:Chain0




Mode:802.11n HT40 Frequency:2452MHz Ant:Chain0




Mode:802.11n HT40 Frequency:2422MHz Ant:Chain1




Mode:802.11n HT40 Frequency:2452MHz Ant:Chain1

# APPENDIX B – TEST DATA OF RADIATED EMISSION

Note：The worst channel results are reflected in the report.

Note: The scanned graph represents the maximum of both horizontal and vertical polarizations and is not a single horizontal or vertical polarization scan

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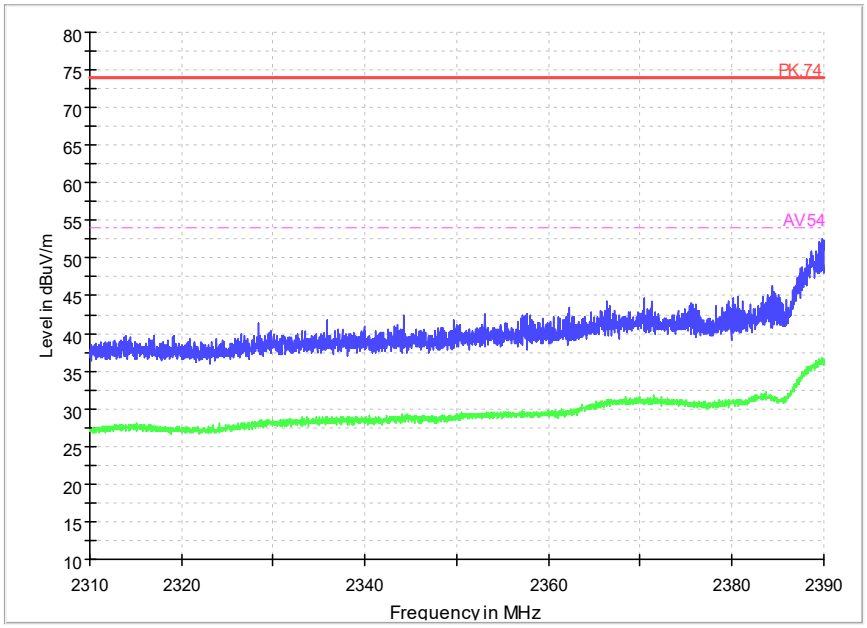
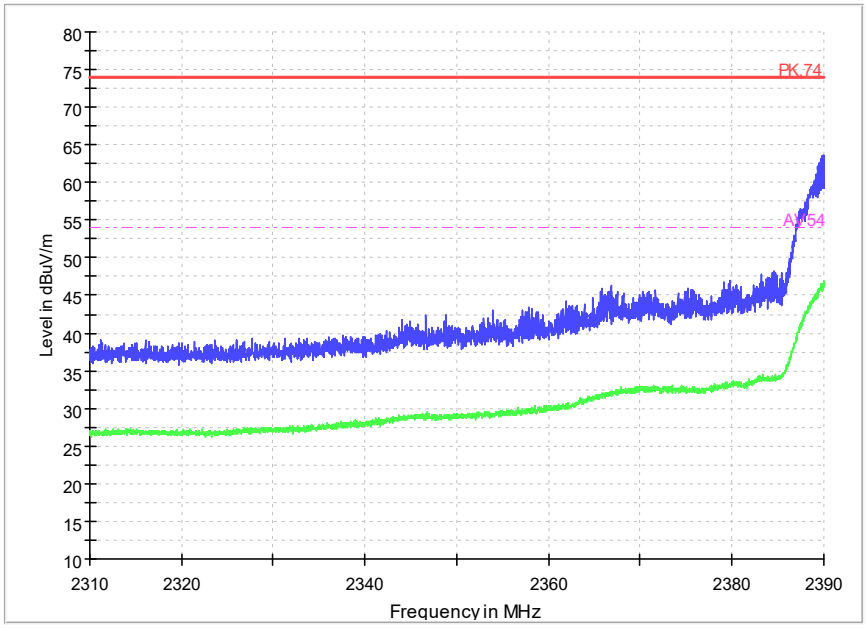
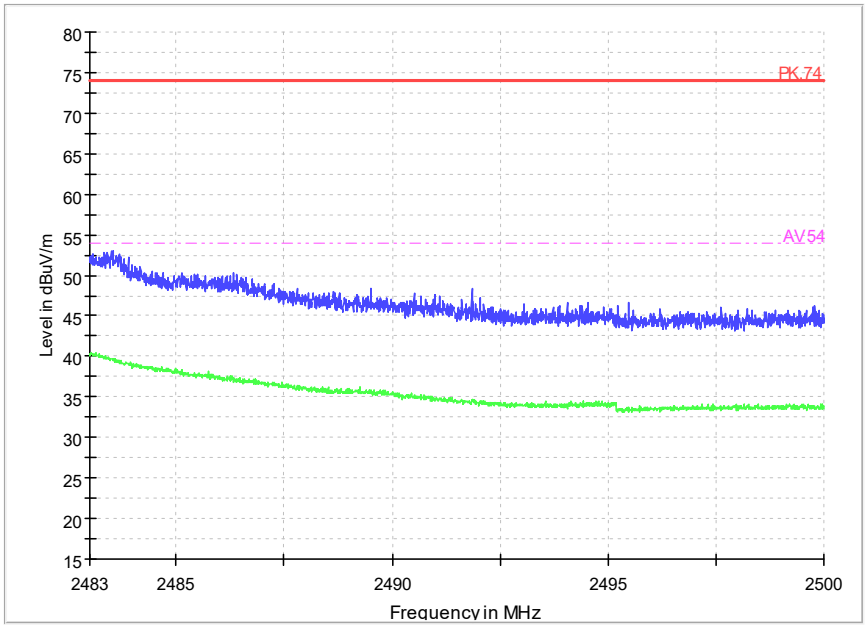
**Radiated Emission Band Edge**



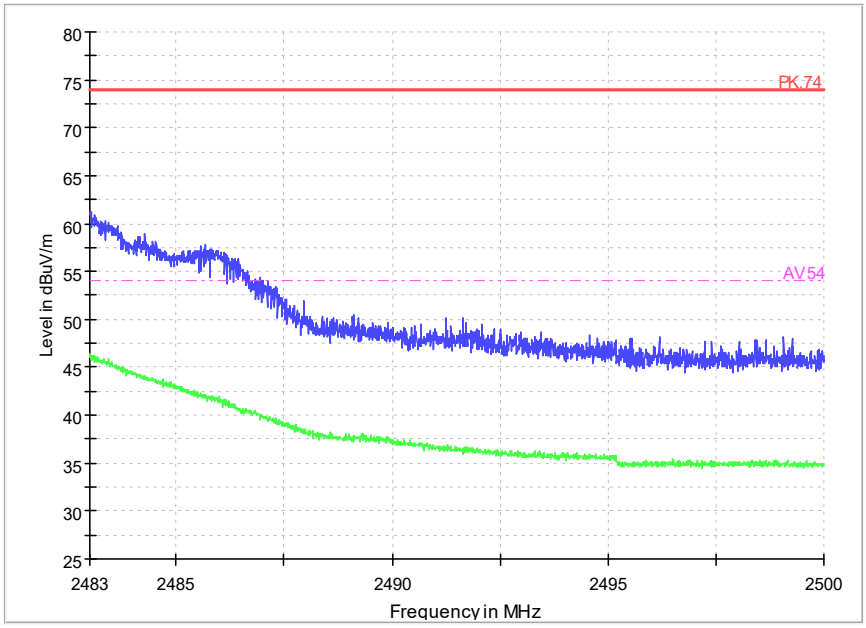

Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11b
Polarization：V



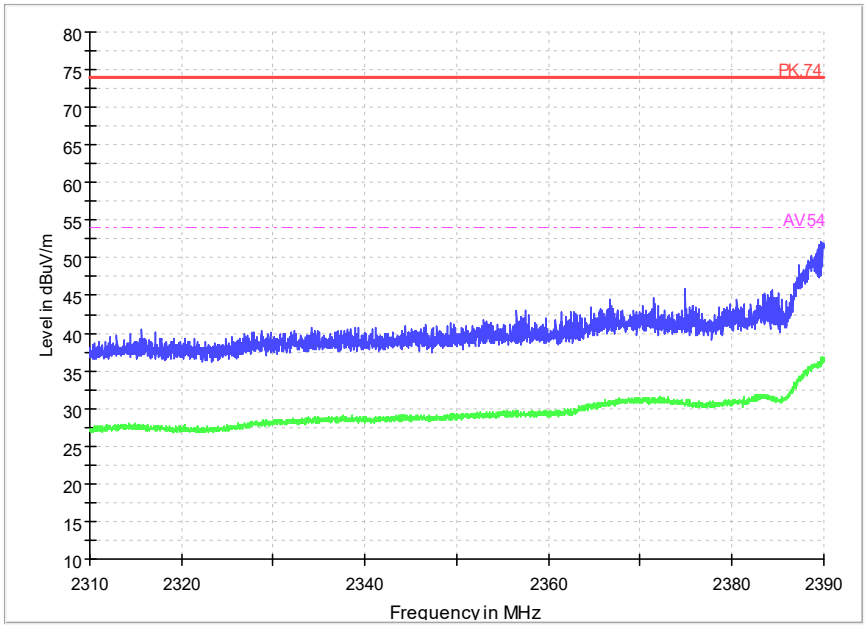

Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11b
Polarization： H



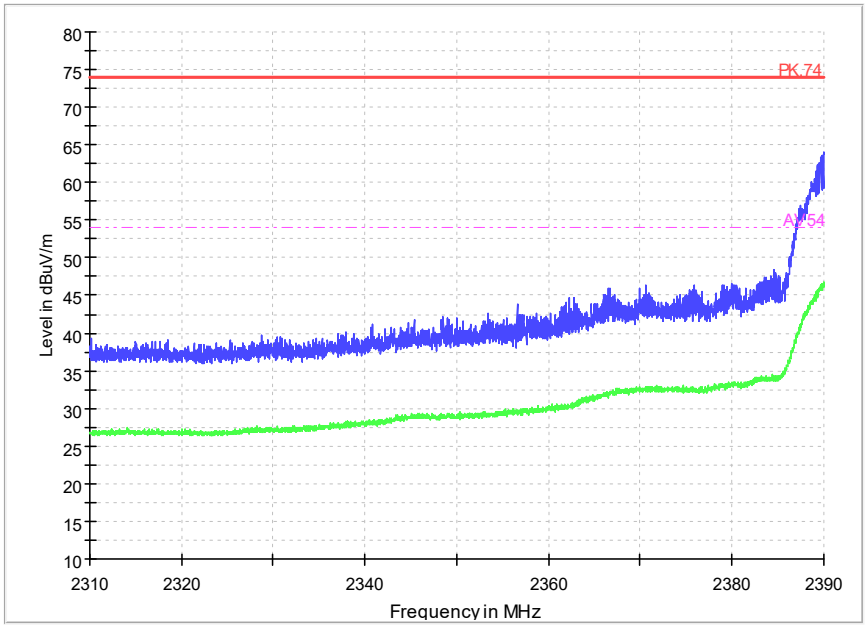

Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11b
Polarization： V



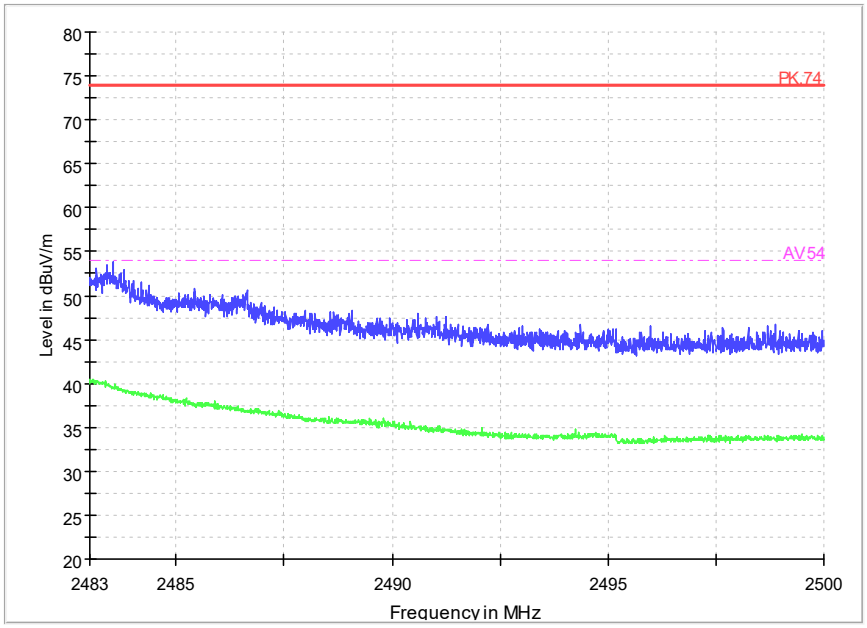

Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11b
Polarization： H



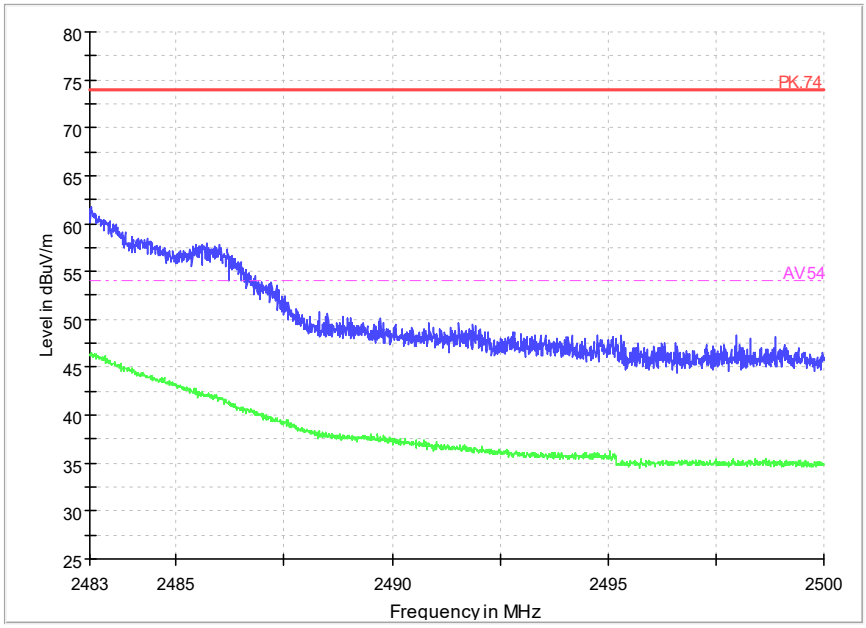

Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11g
Polarization： V



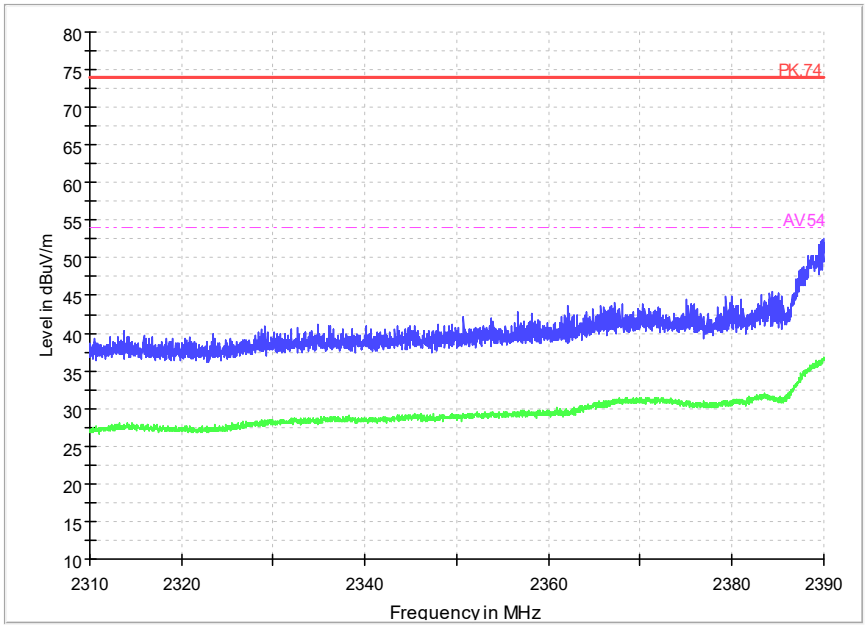

Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11g
Polarization： H



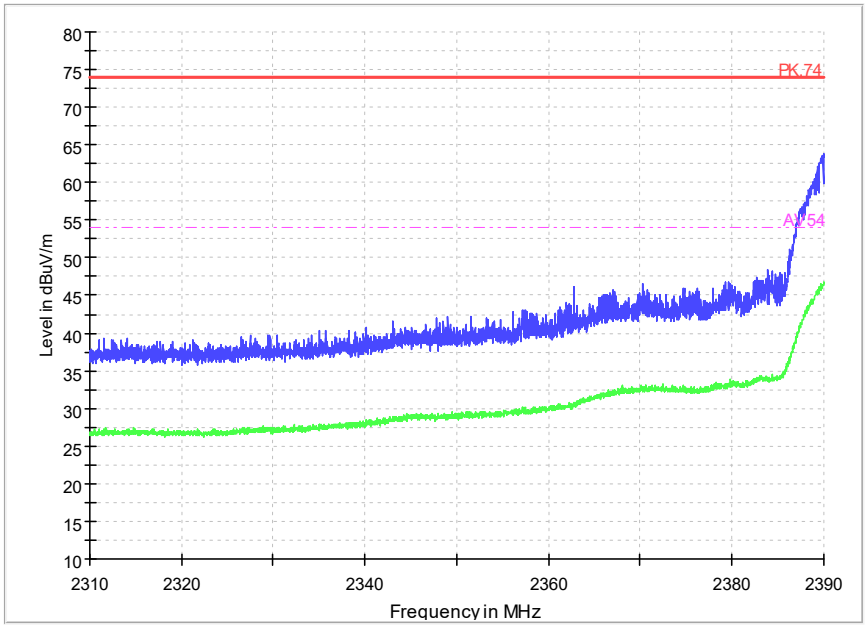

Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11g
Polarization： V



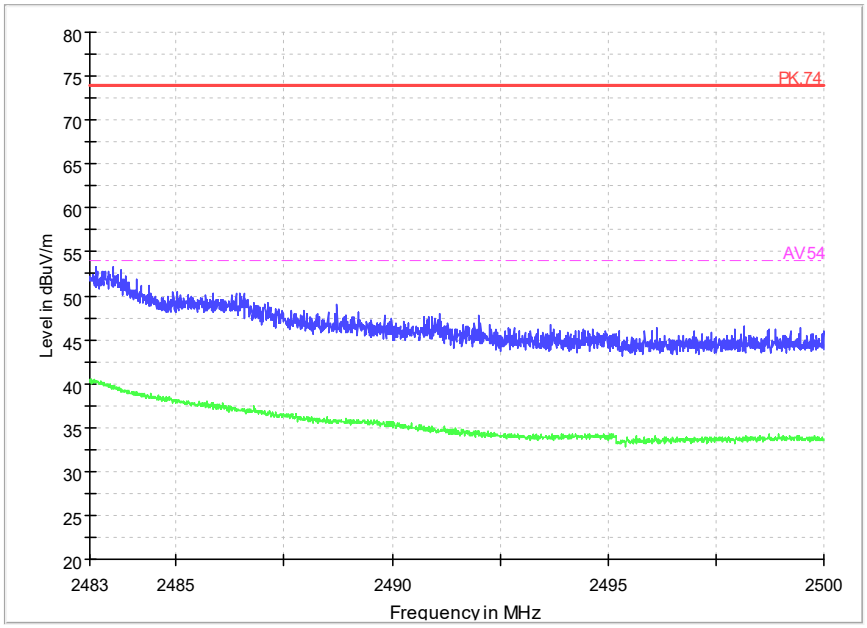

Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11g
Polarization： H



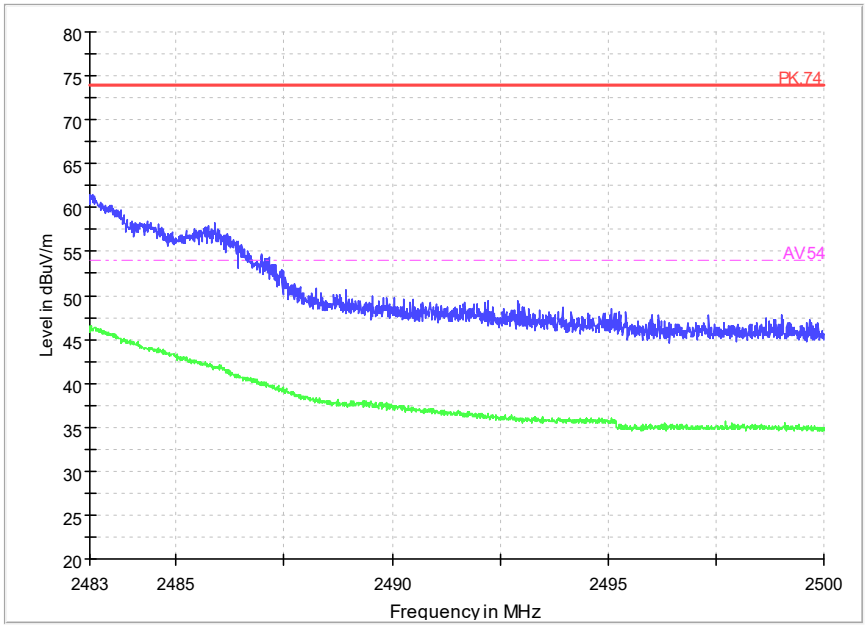

Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11n
Polarization： V



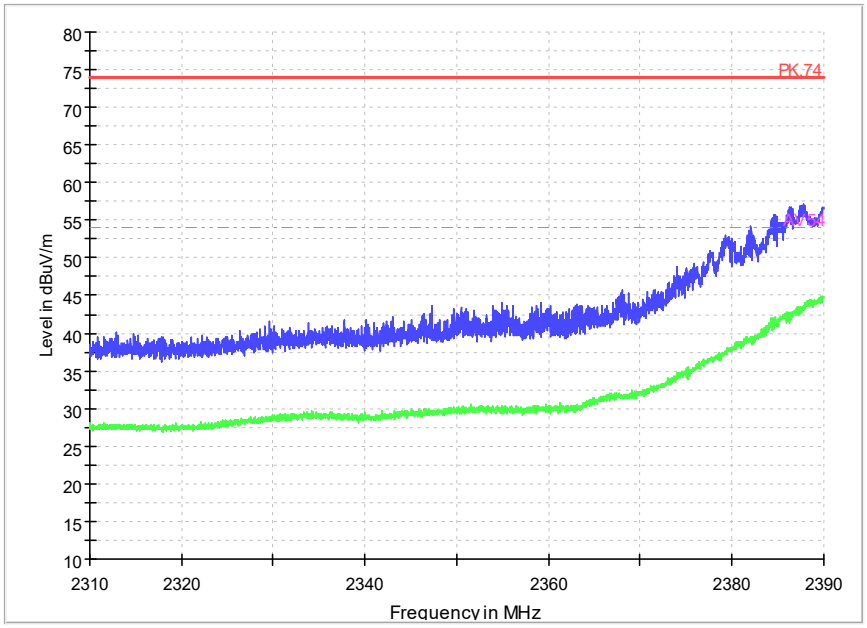

Radiated Emission Band Edge
Channel No.:1
Test Mode: 802.11n
Polarization： H



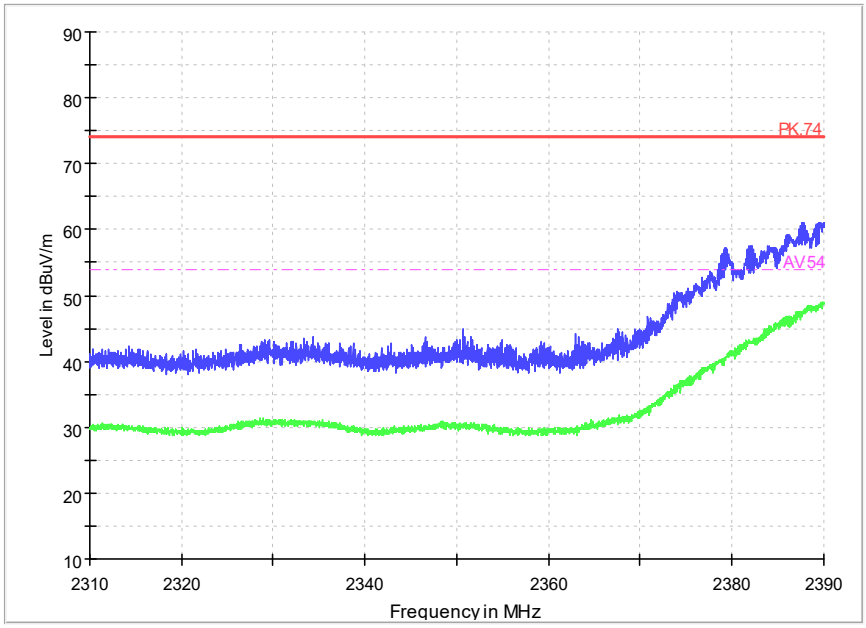

Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11n
Polarization： V



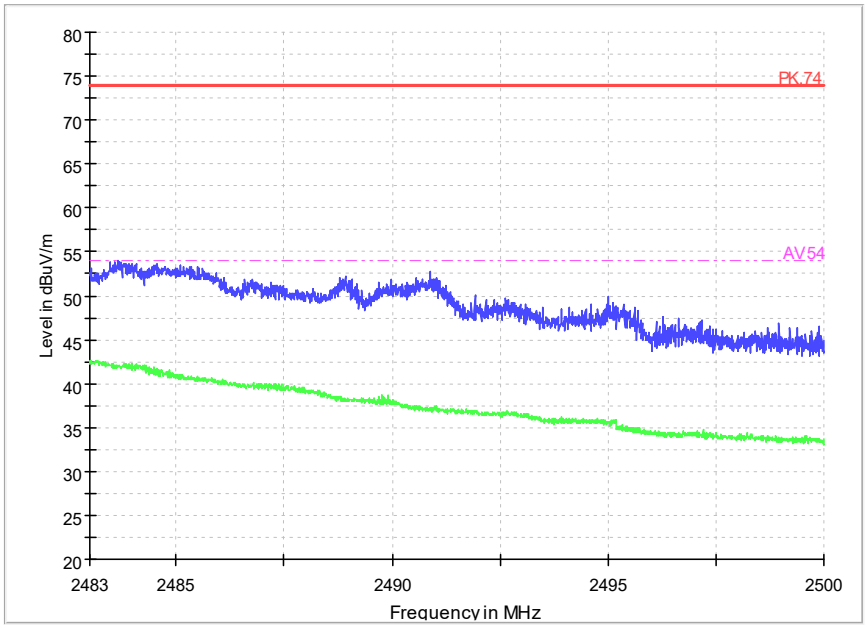

Radiated Emission Band Edge
Channel No.:11
Test Mode: 802.11n
Polarization： H



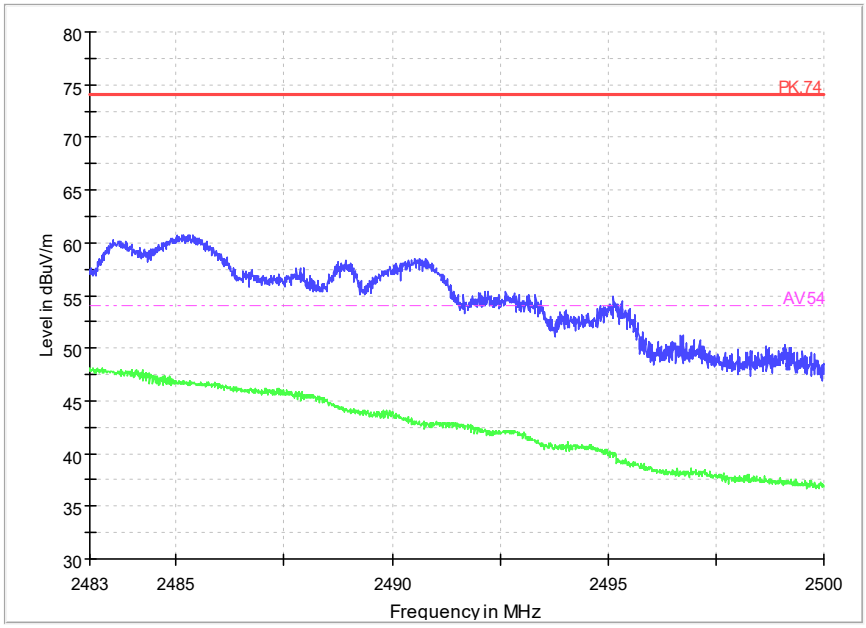

Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11n40
Polarization： V




Radiated Emission Band Edge
Channel No.:3
Test Mode: 802.11n40
Polarization： H




Radiated Emission Band Edge
Channel No.:9
Test Mode: 802.11n40
Polarization： V




Radiated Emission Band Edge
Channel No.:9
Test Mode: 802.11n40
Polarization： H

**Sample Calculations**

After comparison,the worst case attitude is EUT lay down.

Determining Spurious Emissions Levels

A “reference path loss” is established and the $A_{Rpl}$is the attenuation of “reference path loss”, and including the gain of receive antenna, the gain of the preamplifier, the cable loss.
The measurement results are obtained as described below:
Result= $P_{mea}$+ $A_{Rpl}$
Sample calculation: (17.08dBμV/m) = (37.08dBμV) + (-20dB/m), the corresponding frequency is35.1895MHz.

For 802.11b Channel No.:1

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 35.1895 | 17.08 | -20 | 37.08 | Vertical | 40 | 22.93 |
| 57.1115 | 5.12 | -19.6 | 24.72 | Vertical | 40 | 34.88 |
| 104.6415 | 5.07 | -19.6 | 24.67 | Vertical | 43.5 | 38.43 |
| 207.704 | 3.96 | -19.7 | 23.66 | Vertical | 43.5 | 39.54 |
| 532.9935 | 11.15 | -11.6 | 22.75 | Vertical | 46 | 34.85 |
| 876.7615 | 15.06 | -5.9 | 20.96 | Vertical | 46 | 30.94 |

For 802.11g Channel No.:1

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 35.1895 | 17.07 | -20 | 37.07 | Vertical | 40 | 22.93 |
| 59.1485 | 4.95 | -19.8 | 24.75 | Vertical | 40 | 35.05 |
| 111.189 | 4.94 | -19.8 | 24.74 | Vertical | 43.5 | 38.56 |
| 307.0805 | 6.24 | -16.9 | 23.14 | Vertical | 46 | 39.76 |
| 534.594 | 10.96 | -11.5 | 22.46 | Vertical | 46 | 35.04 |
| 955.2345 | 16 | -5 | 21 | Vertical | 46 | 30 |

For 802.11n(HT20) Channel No.:1

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 35.1895 | 16.84 | -20 | 36.84 | Vertical | 40 | 23.16 |
| 59.0515 | 5.2 | -19.8 | 25 | Vertical | 40 | 34.8 |
| 106.3875 | 4.32 | -19.6 | 23.92 | Vertical | 43.5 | 39.18 |
| 291.124 | 6.23 | -17.4 | 23.63 | Vertical | 46 | 39.77 |
| 532.169 | 11.14 | -11.6 | 22.74 | Vertical | 46 | 34.86 |
| 914.834 | 15.86 | -5.3 | 21.16 | Vertical | 46 | 30.14 |

For 802.11b Channel No.:6

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 35.1895 | 17.06 | -20 | 37.06 | Vertical | 40 | 22.94 |
| 57.742 | 5.65 | -19.6 | 25.25 | Vertical | 40 | 34.35 |

| | | | | | | |
|---|---|---|---|---|---|---|
| 117.7365 | 4.28 | -20.3 | 24.58 | Vertical | 43.5 | 39.22 |
| 297.9625 | 6.29 | -17.2 | 23.49 | Vertical | 46 | 39.71 |
| 518.201 | 10.77 | -11.9 | 22.67 | Vertical | 46 | 35.23 |
| 925.989 | 16 | -5.2 | 21.2 | Vertical | 46 | 30 |

For 802.11g Channel No.:6

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 35.238 | 18.74 | -20 | 38.74 | Vertical | 40 | 21.26 |
| 58.033 | 5.65 | -19.7 | 25.35 | Vertical | 40 | 34.35 |
| 103.1865 | 4.6 | -19.5 | 24.1 | Vertical | 43.5 | 38.9 |
| 299.5145 | 6.04 | -17.1 | 23.14 | Vertical | 46 | 39.96 |
| 525.0395 | 10.94 | -11.7 | 22.64 | Vertical | 46 | 35.06 |
| 938.114 | 16.03 | -5.1 | 21.13 | Vertical | 46 | 29.97 |

For 802.11n(HT20) Channel No.:6

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 35.238 | 18.76 | -20 | 38.76 | Vertical | 40 | 21.24 |
| 84.805 | 3.84 | -21.1 | 24.94 | Vertical | 40 | 36.16 |
| 103.2835 | 4.69 | -19.5 | 24.19 | Vertical | 43.5 | 38.81 |
| 288.2625 | 5.7 | -17.4 | 23.1 | Vertical | 46 | 40.3 |
| 530.7625 | 11 | -11.6 | 22.6 | Vertical | 46 | 35 |
| 921.5755 | 15.88 | -5.3 | 21.18 | Vertical | 46 | 30.12 |

For 802.11b Channel No.:11

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 35.1895 | 17.07 | -20 | 37.07 | Vertical | 40 | 22.93 |
| 58.2755 | 5.44 | -19.7 | 25.14 | Vertical | 40 | 34.56 |
| 98.676 | 5.65 | -19.5 | 25.15 | Vertical | 43.5 | 37.85 |
| 210.7595 | 3.89 | -19.6 | 23.49 | Vertical | 43.5 | 39.61 |
| 521.79 | 10.65 | -11.8 | 22.45 | Vertical | 46 | 35.35 |
| 957.9505 | 15.95 | -5 | 20.95 | Vertical | 46 | 30.05 |

For 802.11g Channel No.:11

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 35.238 | 18.74 | -20 | 38.74 | Vertical | 40 | 21.26 |
| 57.936 | 5.48 | -19.7 | 25.18 | Vertical | 40 | 34.52 |
| 110.5585 | 4.97 | -19.7 | 24.67 | Vertical | 43.5 | 38.53 |
| 308.6325 | 6.41 | -16.9 | 23.31 | Vertical | 46 | 39.59 |
| 495.891 | 9.82 | -12.3 | 22.12 | Vertical | 46 | 36.18 |
| 922.788 | 15.81 | -5.3 | 21.11 | Vertical | 46 | 30.19 |

For 802.11n(HT20) Channel No.:11

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 35.1895 | 16.99 | -20 | 36.99 | Vertical | 40 | 23.01 |
| 71.031 | 2.79 | -22.3 | 25.09 | Vertical | 40 | 37.21 |
| 97.415 | 5.23 | -19.6 | 24.83 | Vertical | 43.5 | 38.27 |
| 301.794 | 6.13 | -17.1 | 23.23 | Vertical | 46 | 39.87 |
| 553.121 | 10.92 | -11.1 | 22.02 | Vertical | 46 | 35.08 |
| 911.827 | 15.78 | -5.4 | 21.18 | Vertical | 46 | 30.22 |

For 802.11n(HT40) Channel No.:3

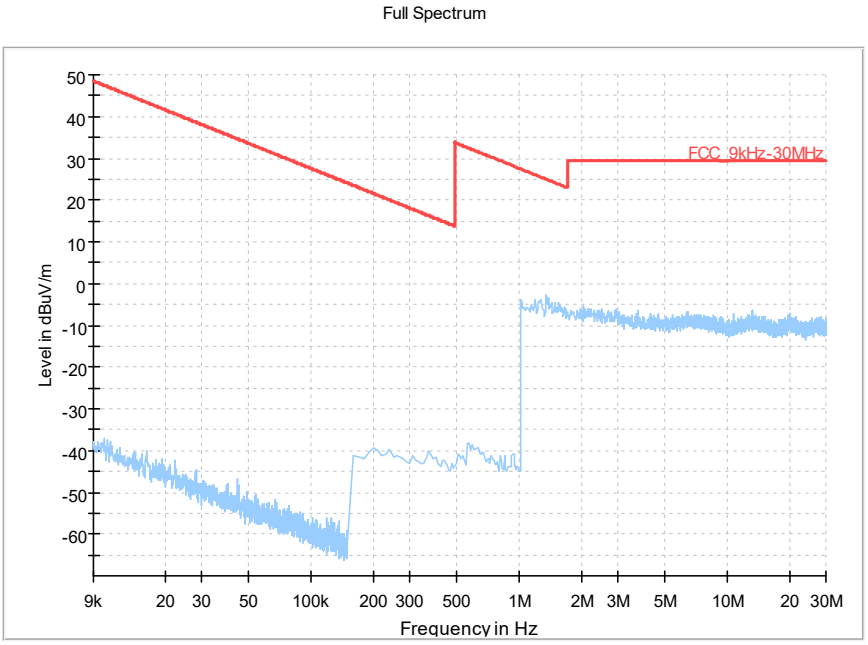
| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 35.1895 | 17.09 | -20 | 37.09 | Vertical | 40 | 22.91 |
| 57.8875 | 5.47 | -19.7 | 25.17 | Vertical | 40 | 34.54 |
| 104.205 | 5.11 | -19.6 | 24.71 | Vertical | 43.5 | 38.39 |
| 302.6185 | 6.3 | -17 | 23.3 | Vertical | 46 | 39.7 |
| 532.848 | 11.11 | -11.6 | 22.71 | Vertical | 46 | 34.89 |
| 948.7355 | 16.02 | -5.1 | 21.12 | Vertical | 46 | 29.98 |

For 802.11n(HT40) Channel No.:6

| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 35.1895 | 17.07 | -20 | 37.07 | Vertical | 40 | 22.93 |
| 62.01 | 3.07 | -20.4 | 23.47 | Vertical | 40 | 36.93 |
| 100.0825 | 4.44 | -19.5 | 23.94 | Vertical | 43.5 | 39.06 |
| 283.8005 | 6.03 | -17.6 | 23.63 | Vertical | 46 | 39.97 |
| 545.167 | 11.16 | -11.3 | 22.46 | Vertical | 46 | 34.84 |
| 916.2405 | 15.86 | -5.3 | 21.16 | Vertical | 46 | 30.14 |

For 802.11n(HT40) Channel No.:9

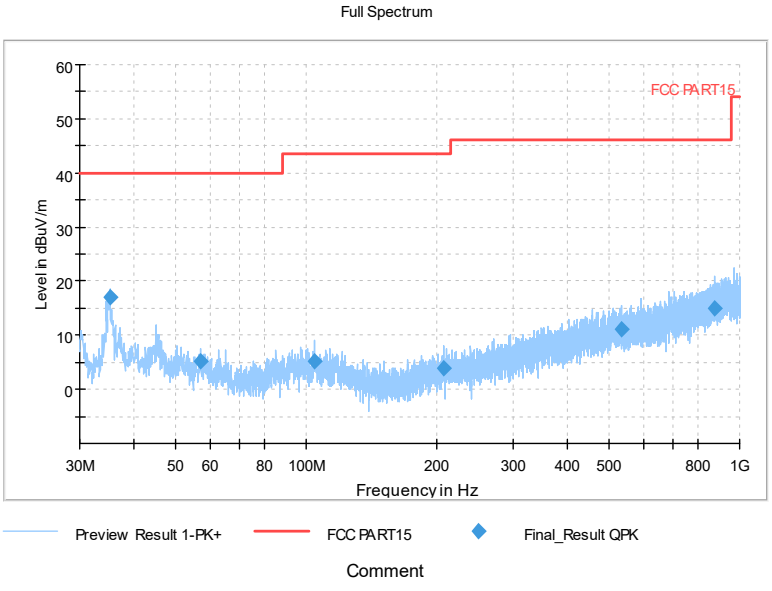
| Frequency(MHz) | Result(dBuV/m) | ARpl (dB) | Pmea (dBuV/m) | Polarity | Limit (dBuV/m) | Margin (dB) |
|---|---|---|---|---|---|---|
| 35.1895 | 17.12 | -20 | 37.12 | Vertical | 40 | 22.88 |
| 57.0145 | 5.09 | -19.6 | 24.69 | Vertical | 40 | 34.91 |
| 98.579 | 5.07 | -19.5 | 24.57 | Vertical | 43.5 | 38.43 |
| 212.554 | 4.01 | -19.5 | 23.51 | Vertical | 43.5 | 39.49 |
| 508.889 | 10.22 | -12 | 22.22 | Vertical | 46 | 35.78 |
| 928.5595 | 15.97 | -5.2 | 21.17 | Vertical | 46 | 30.03 |



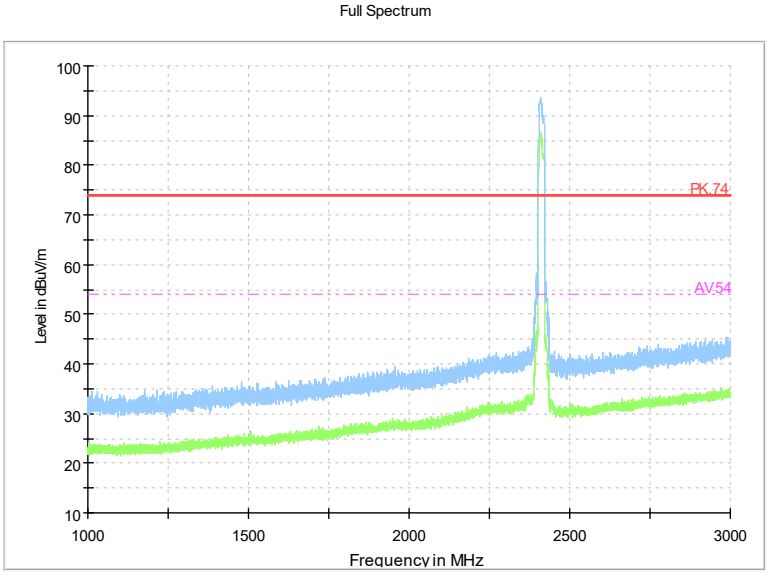

Frequency Range: 9kHz -30MHz
Detector: QP mode

Note：The relevant tests have been performed in order to verify in which mode would have the worstfeatures, the result show above is the worst case.

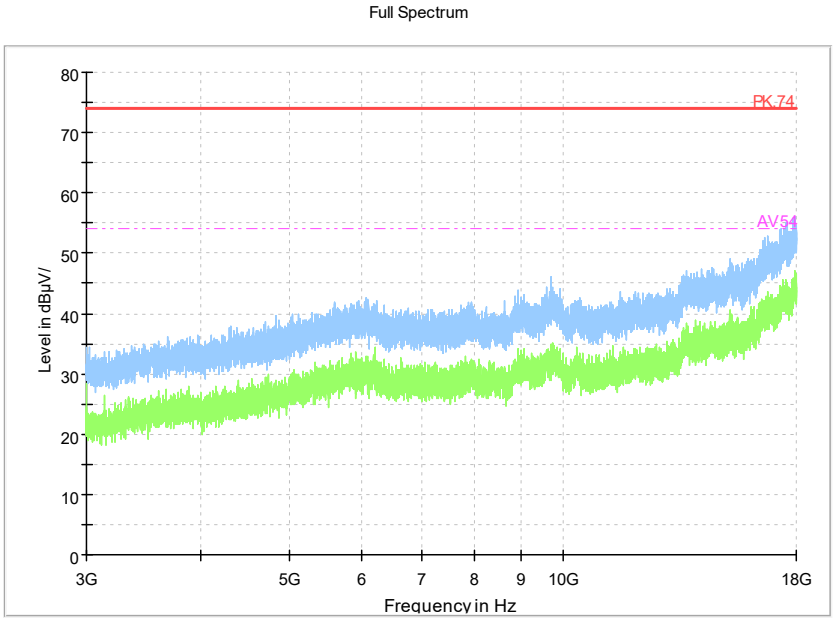
Carrier frequency (MHz): 2412
Channel No.:1



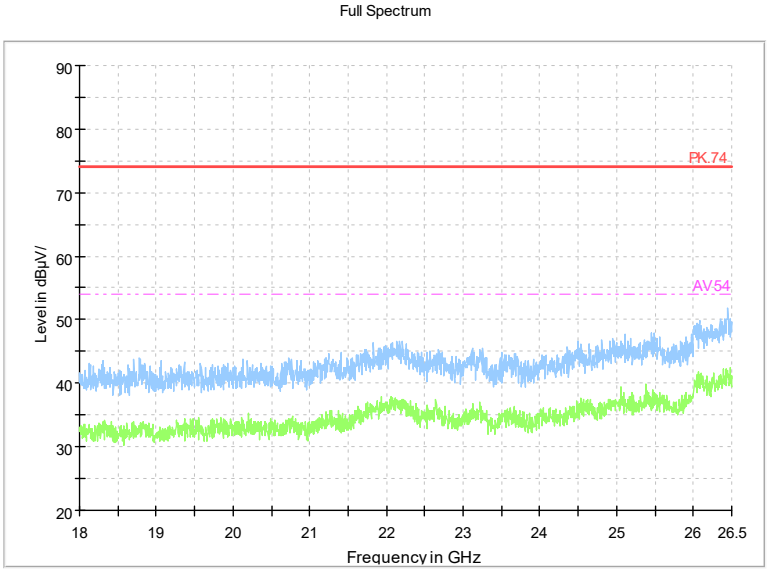

Frequency Range30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



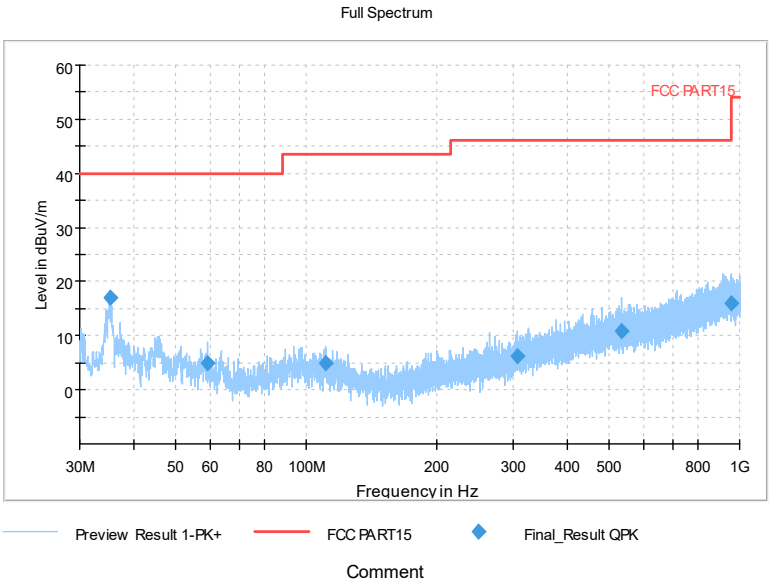

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



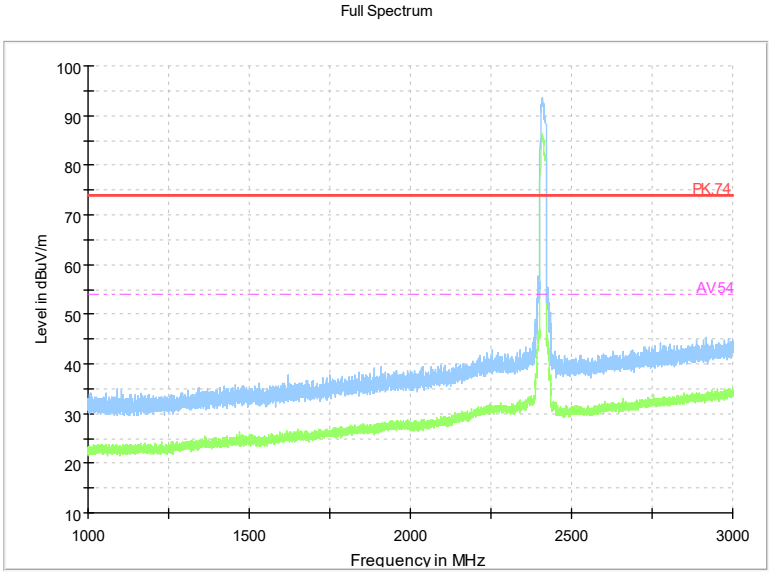

Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



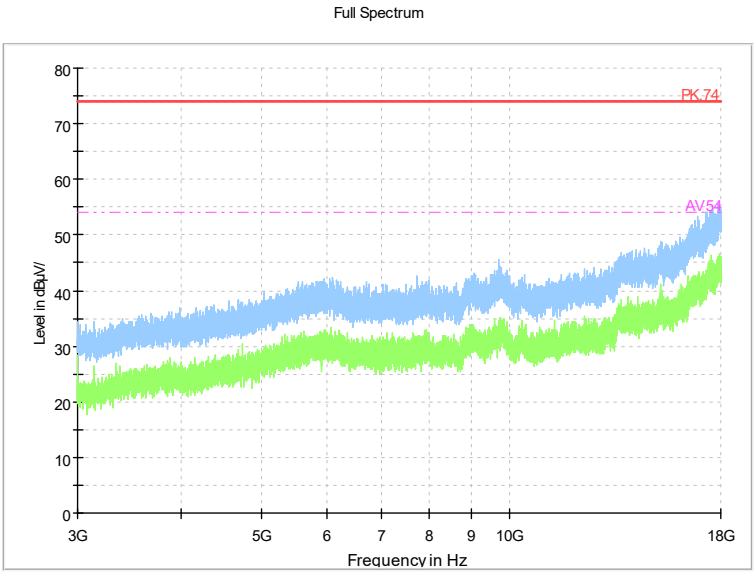

Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



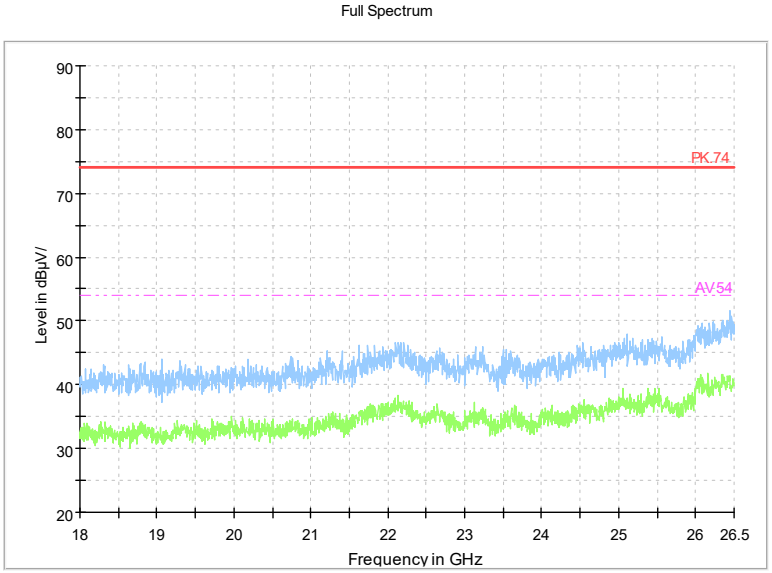

Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



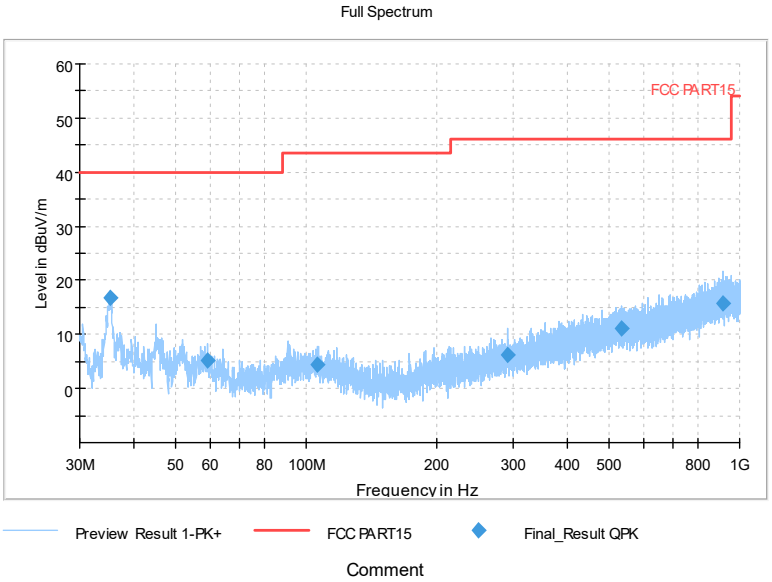

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



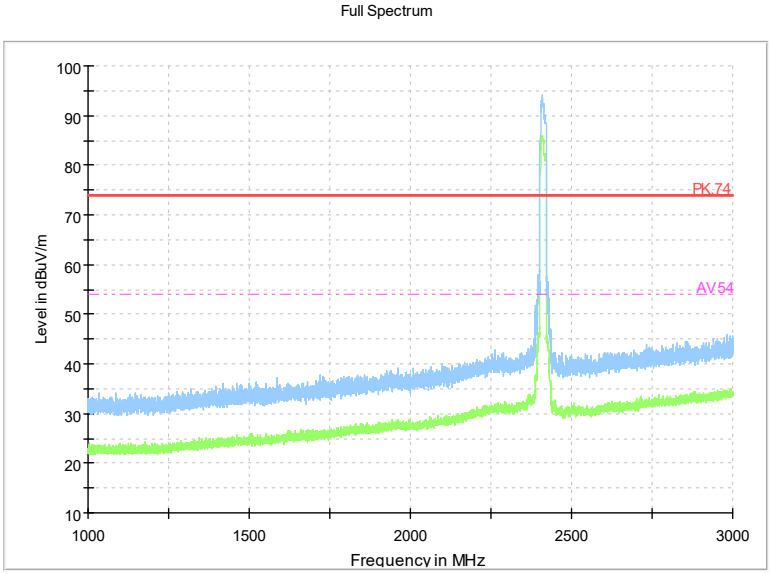

Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



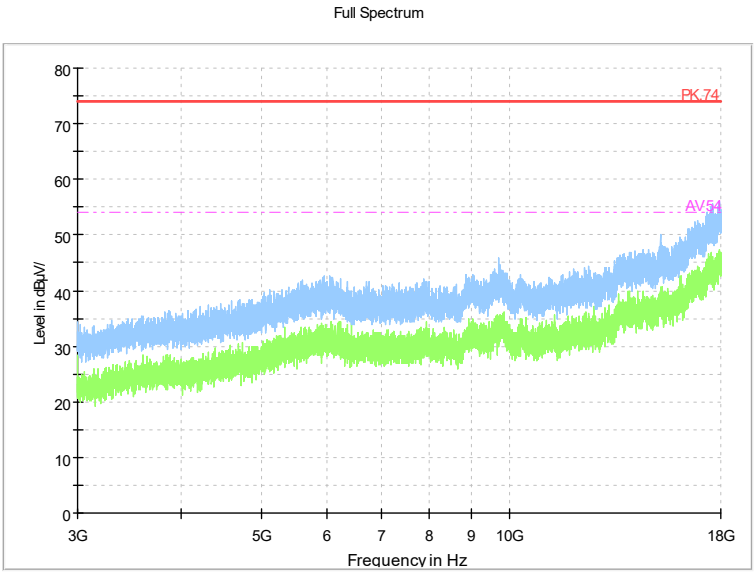

Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



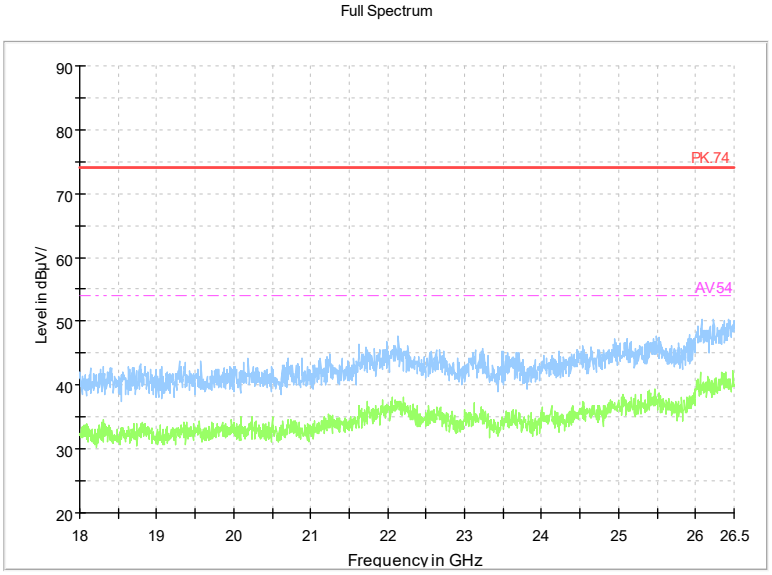

Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)




Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

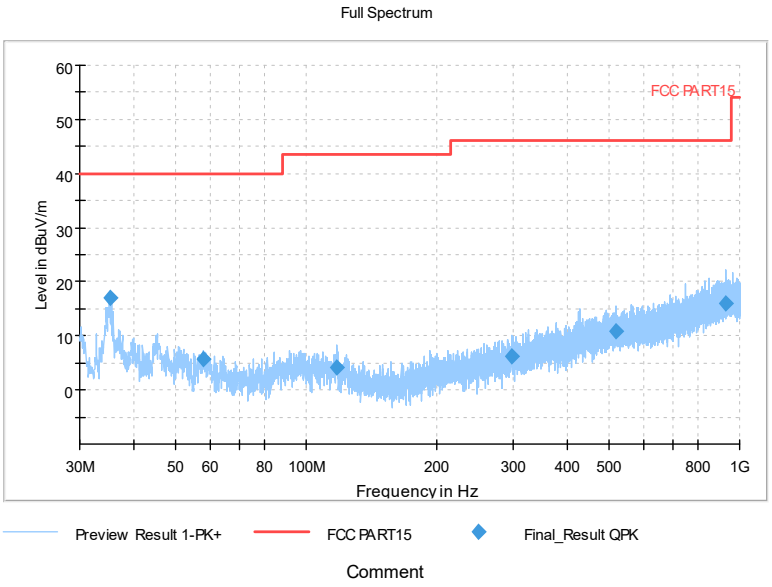



Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

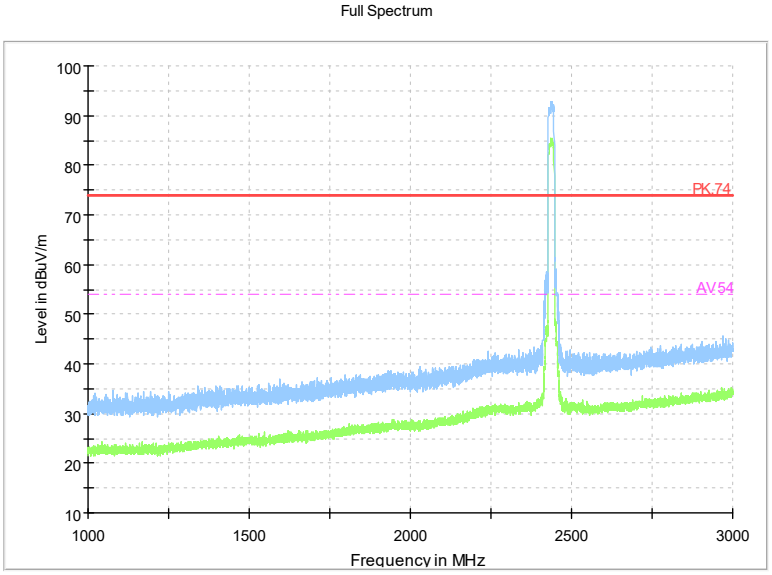



Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

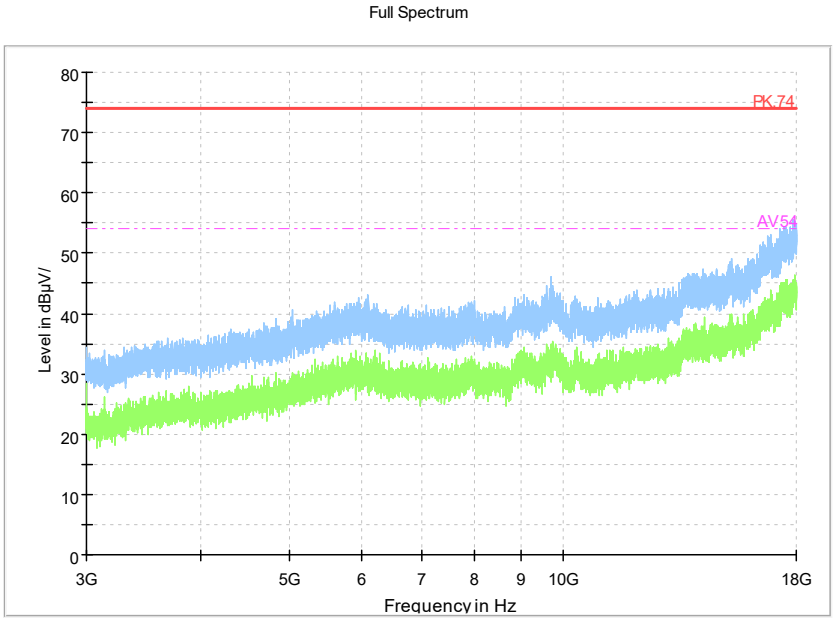
Carrier frequency (MHz): 2437
Channel No.:6



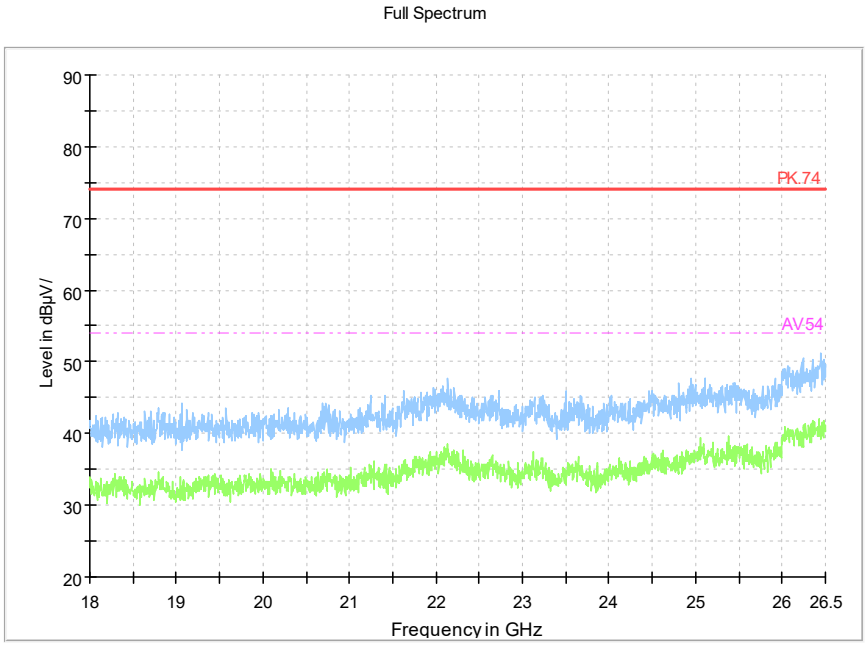

Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



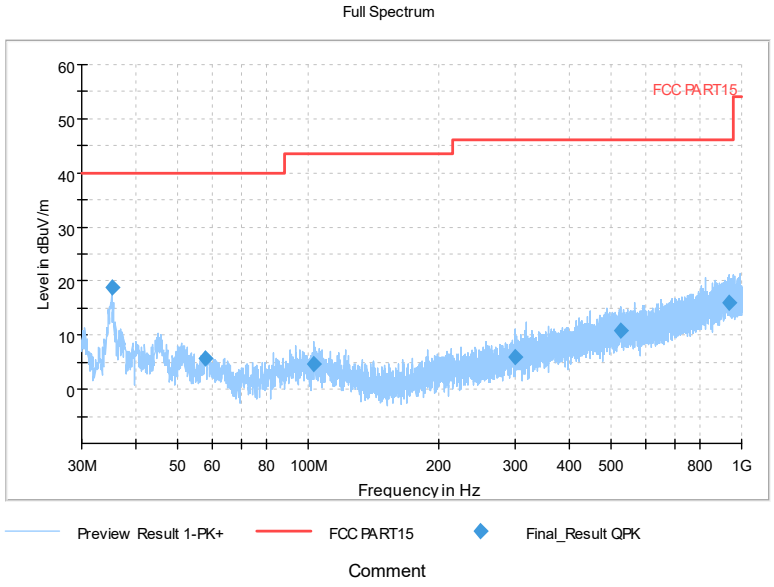

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



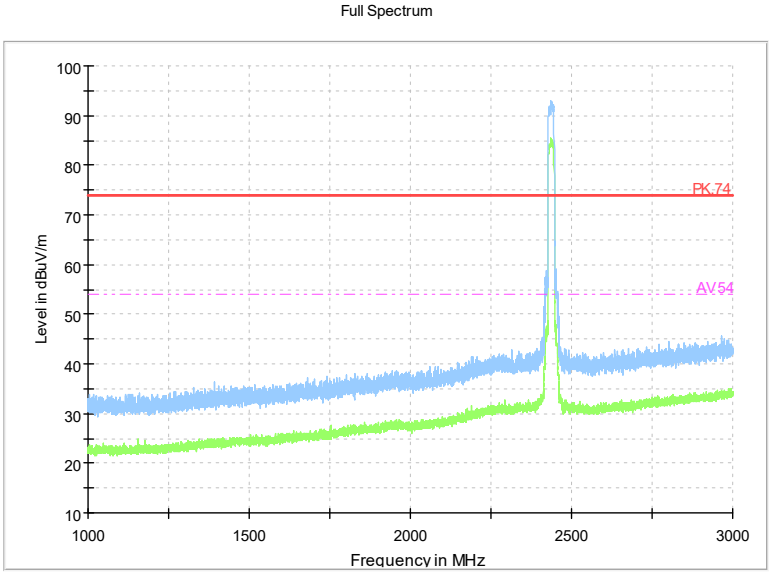

Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



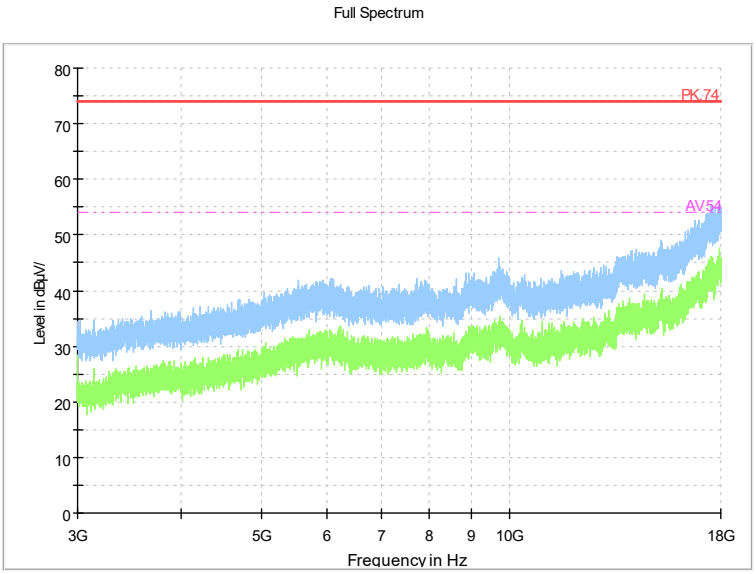

Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



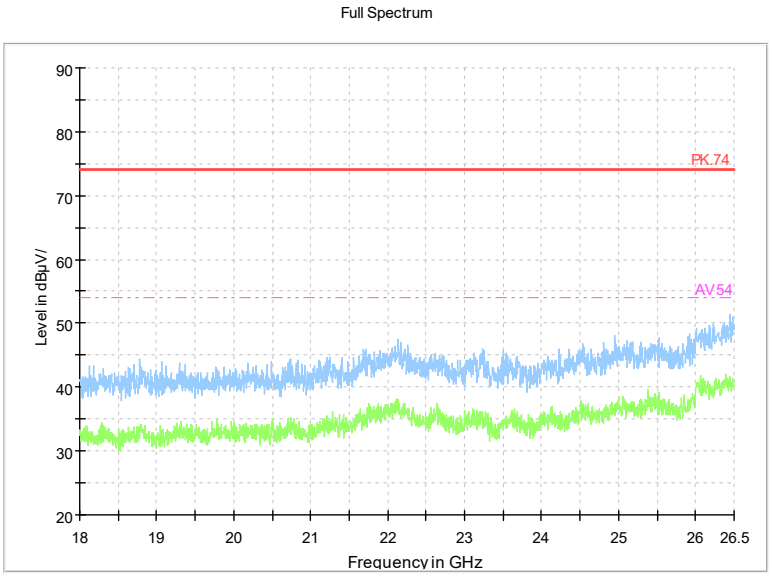

Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



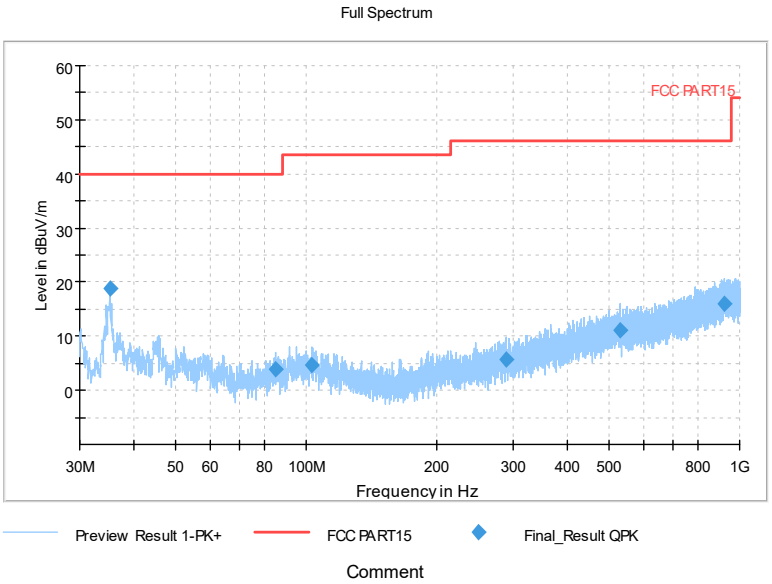

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



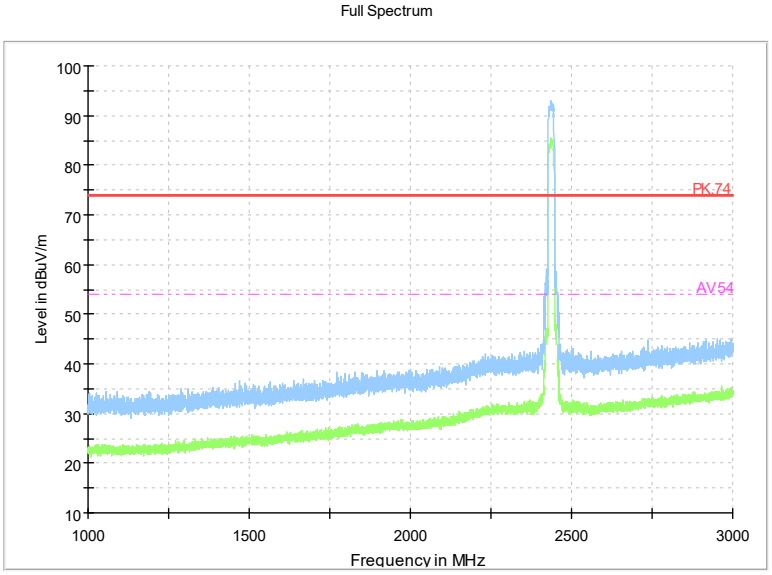

Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



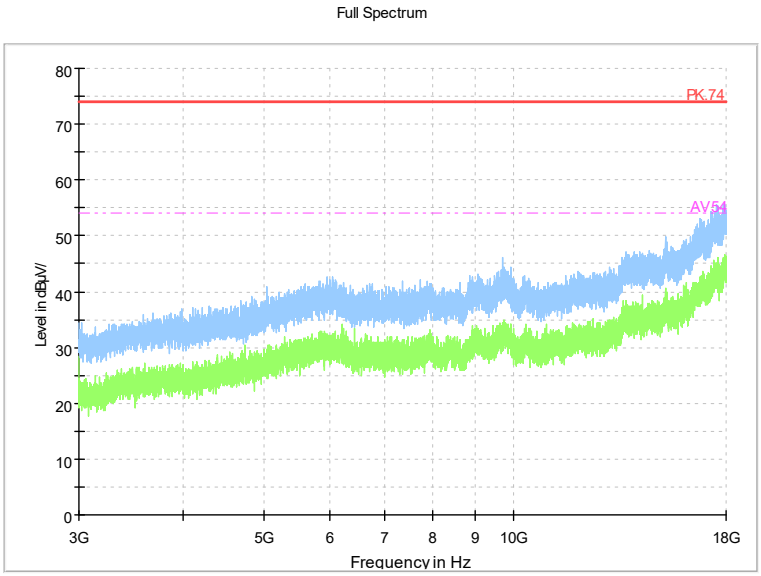

Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



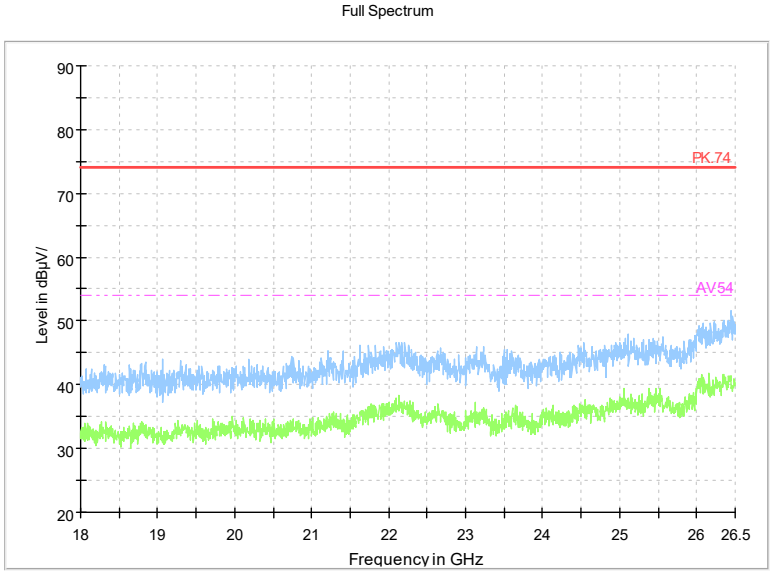

Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)




Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

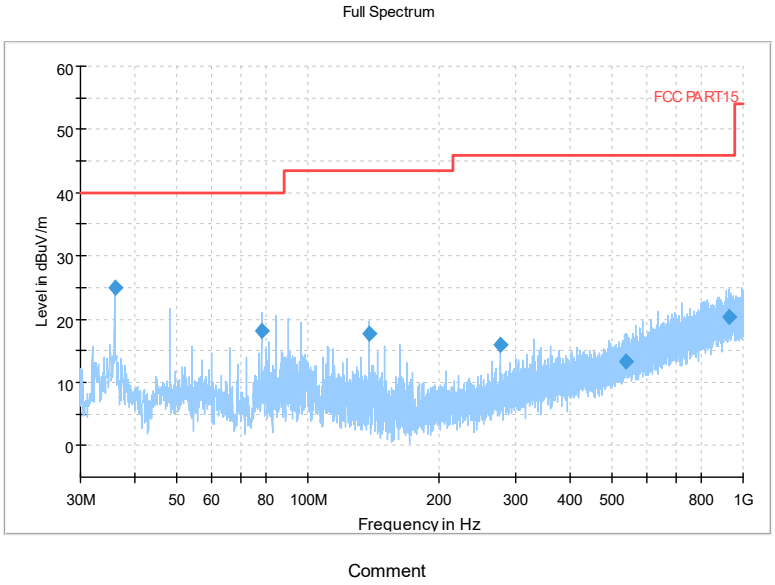



Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)



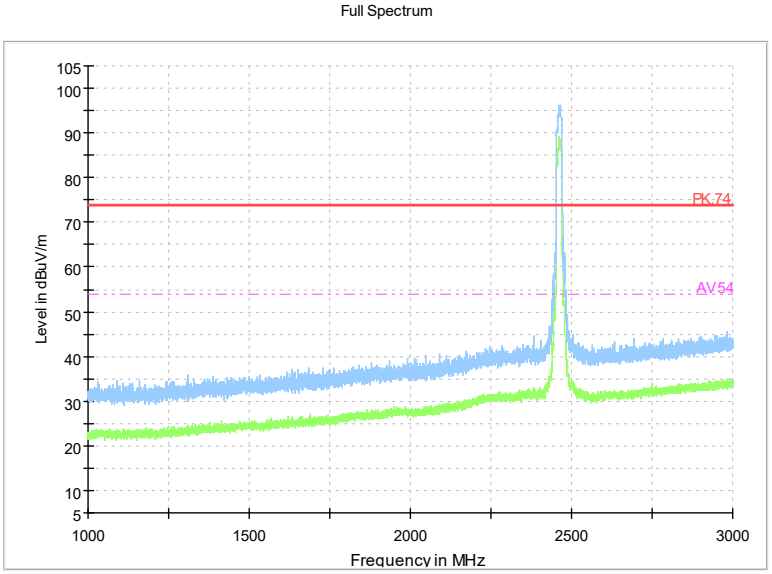

Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

Carrier frequency (MHz): 2462
Channel No.:11

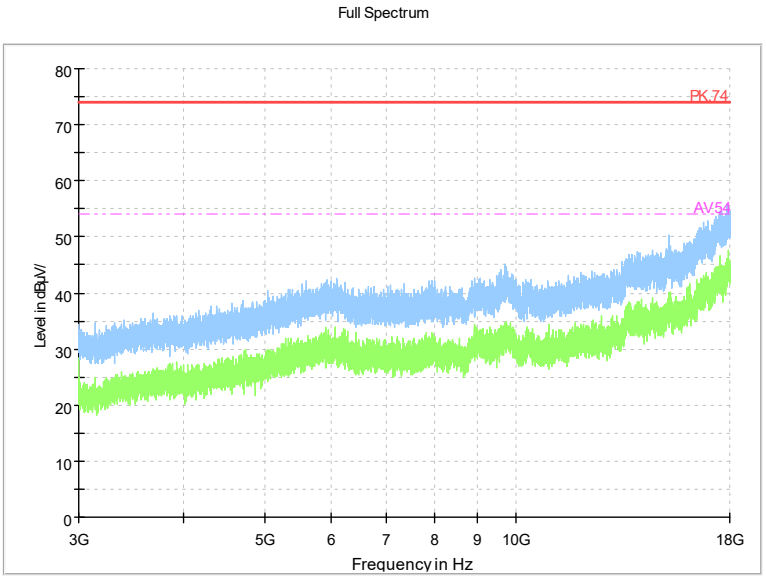



Comment

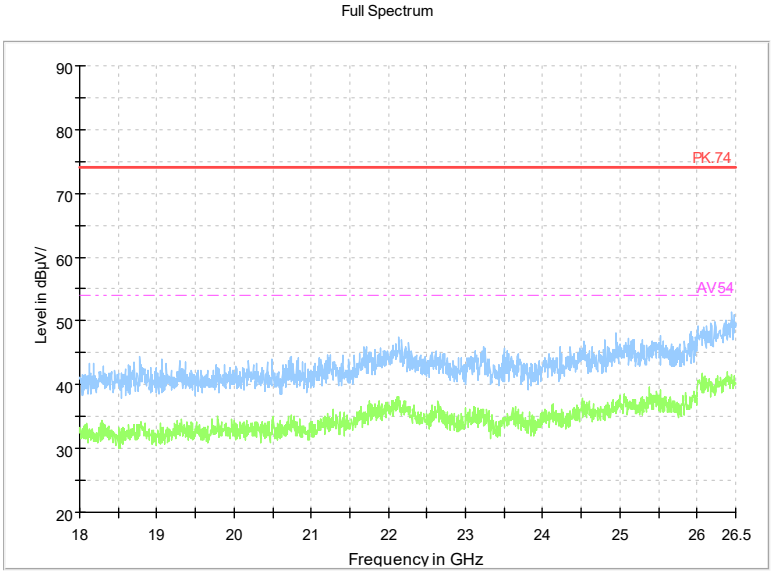
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11b



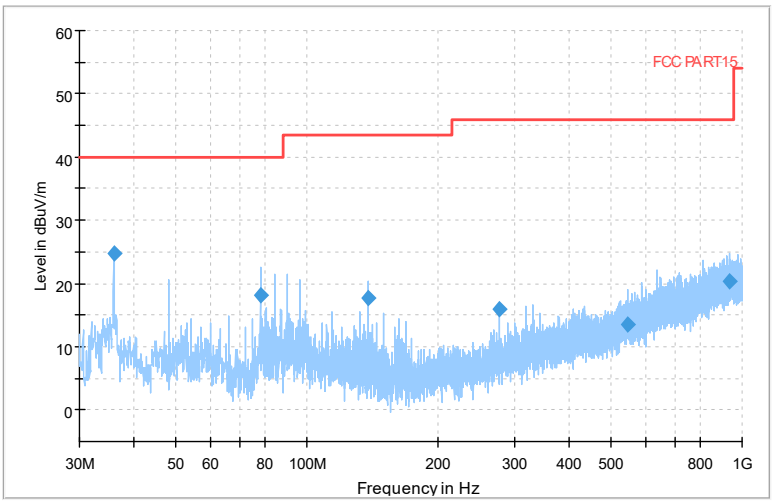

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11b




Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

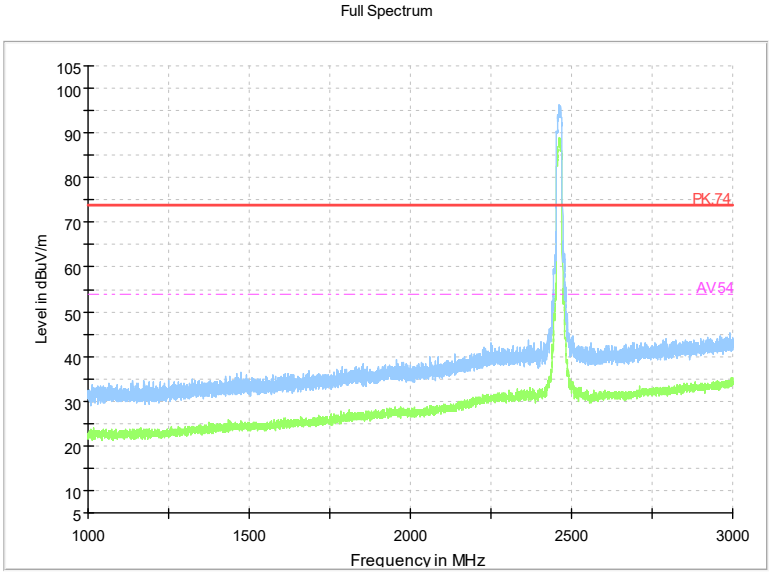



Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11b

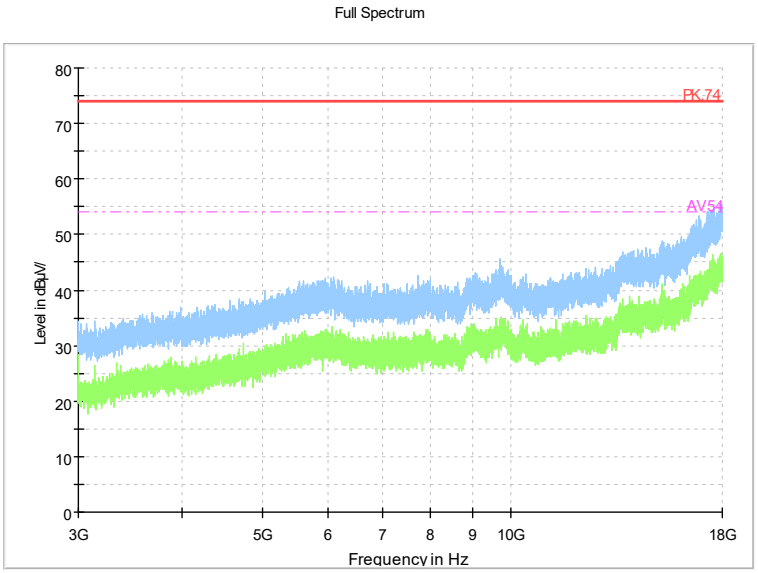



Comment

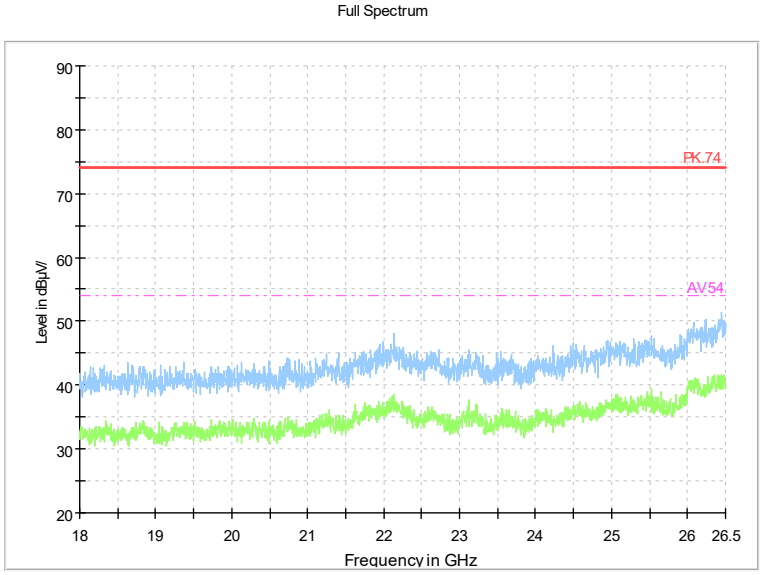
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11g



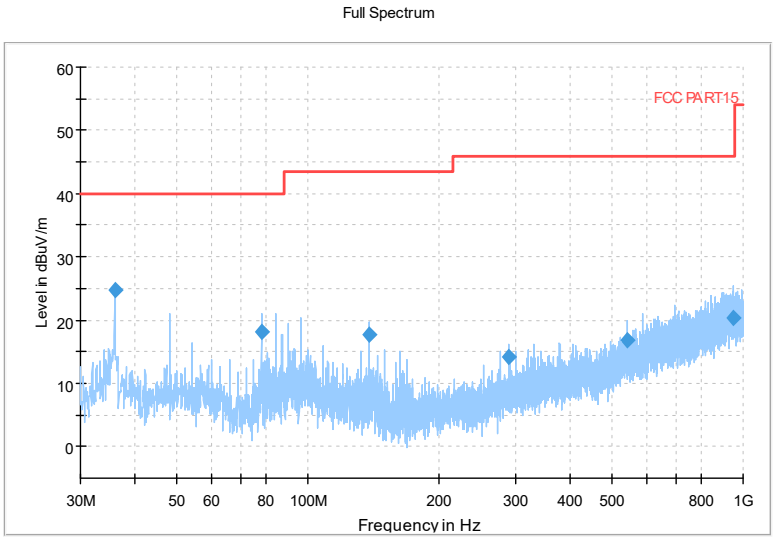

Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11g




Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

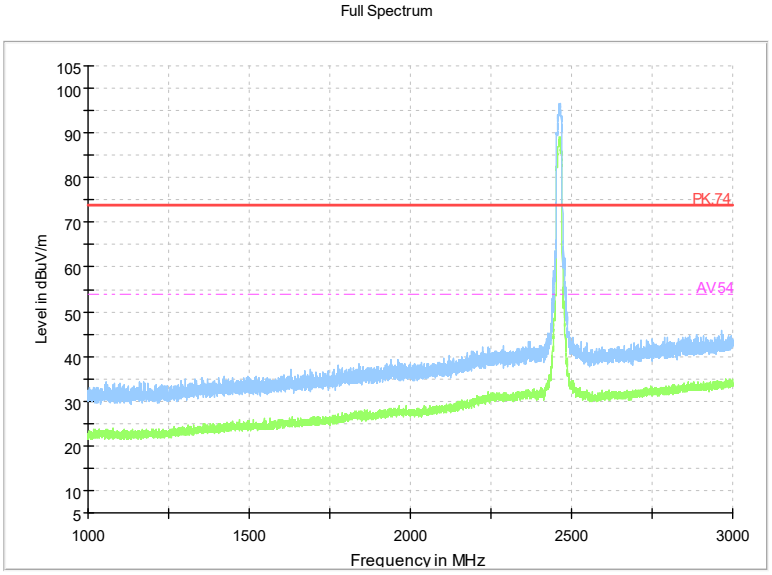



Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11g

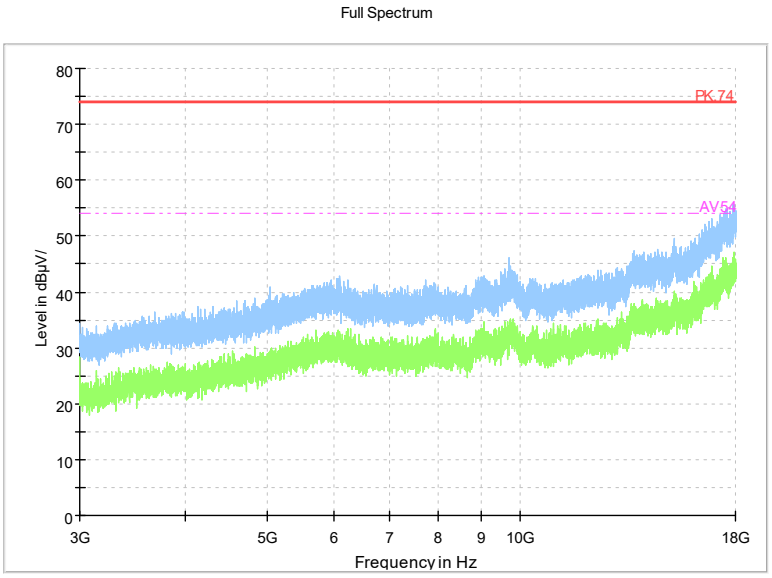



Comment

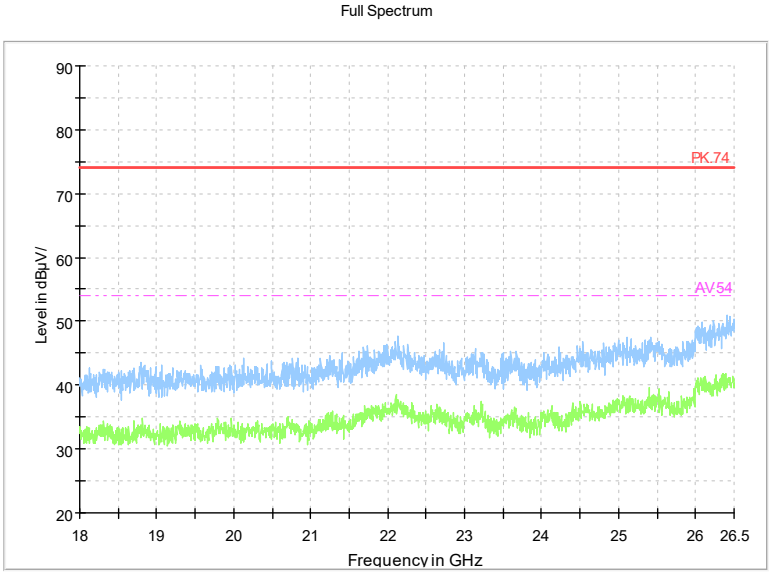
Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)




Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

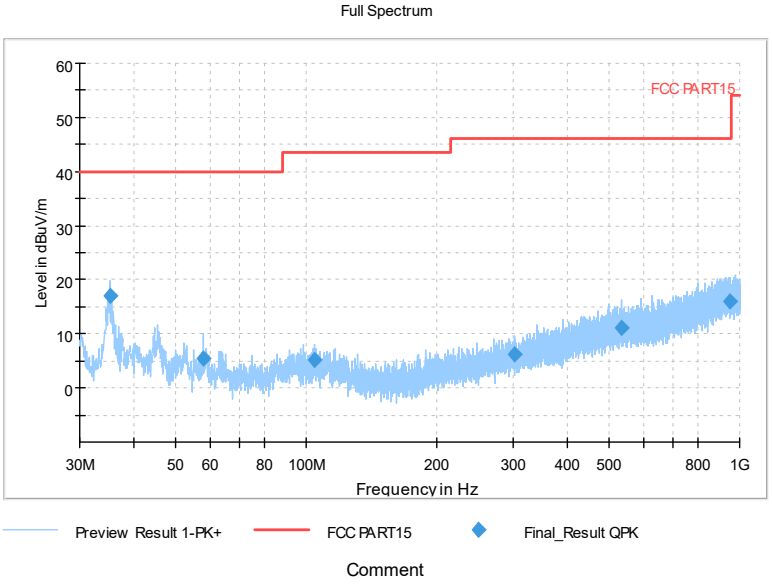



Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

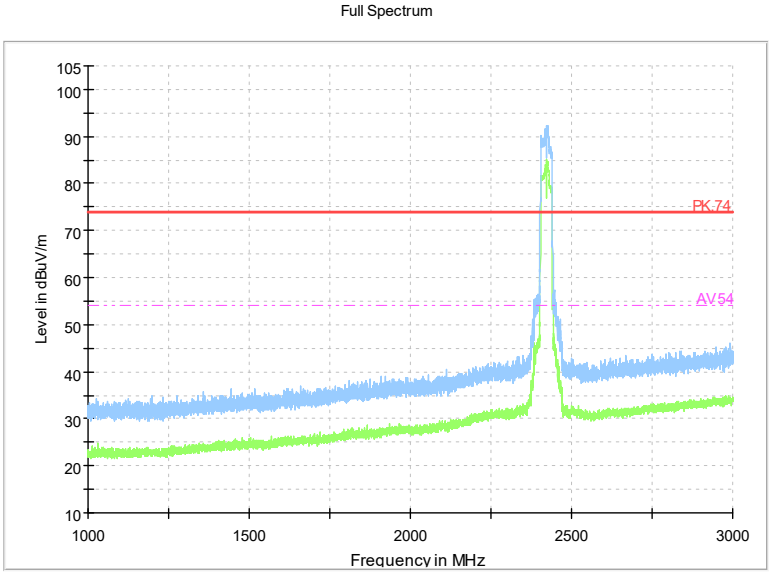



Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT20)

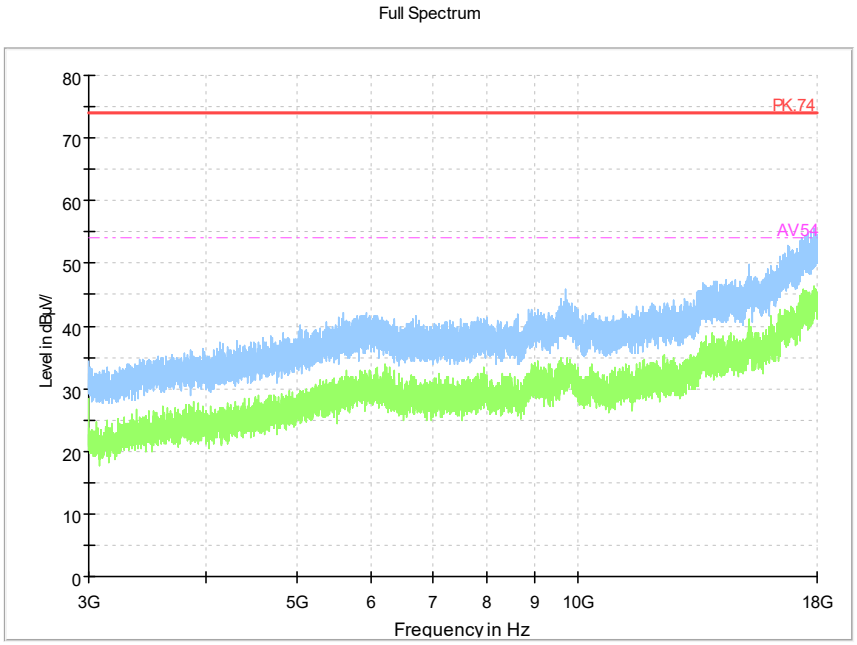
Carrier frequency (MHz): 2422
Channel No.:3



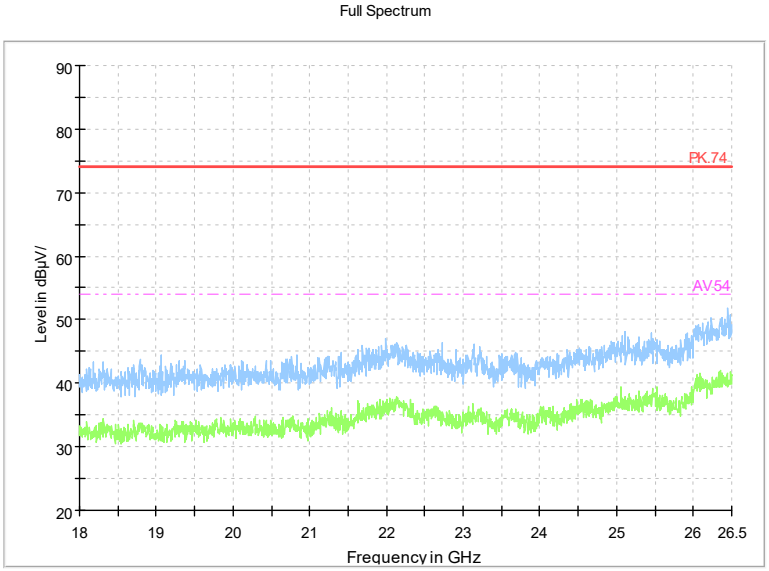

Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)




Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

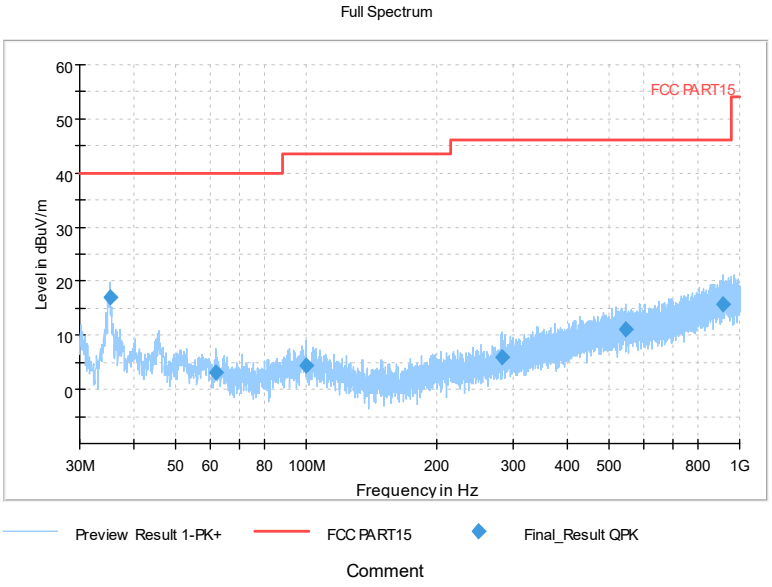



Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

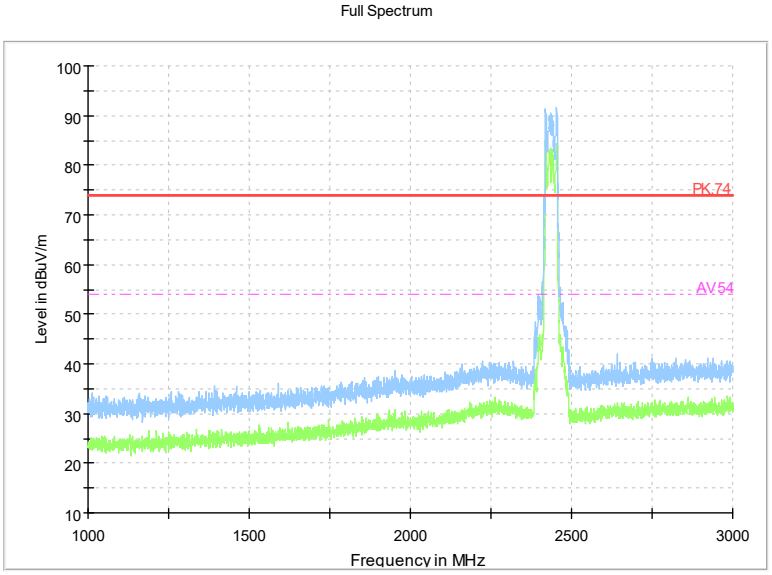



Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

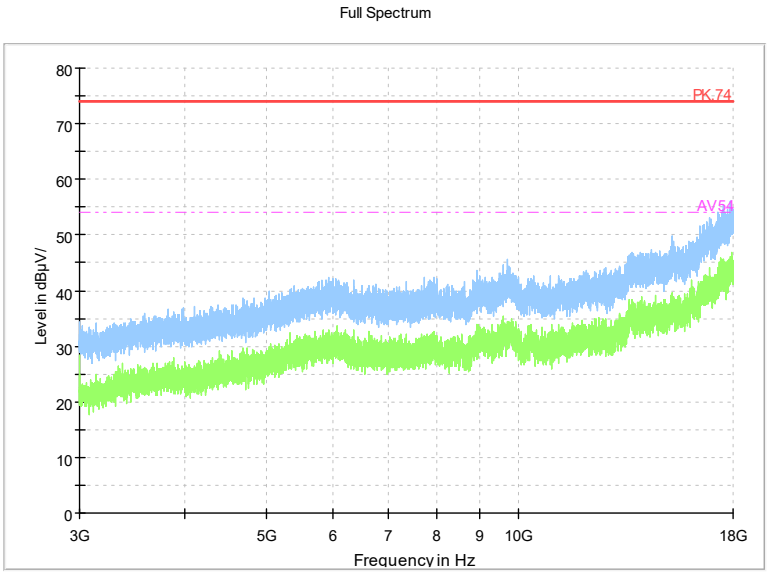
Carrier frequency (MHz): 2437
Channel No.:6



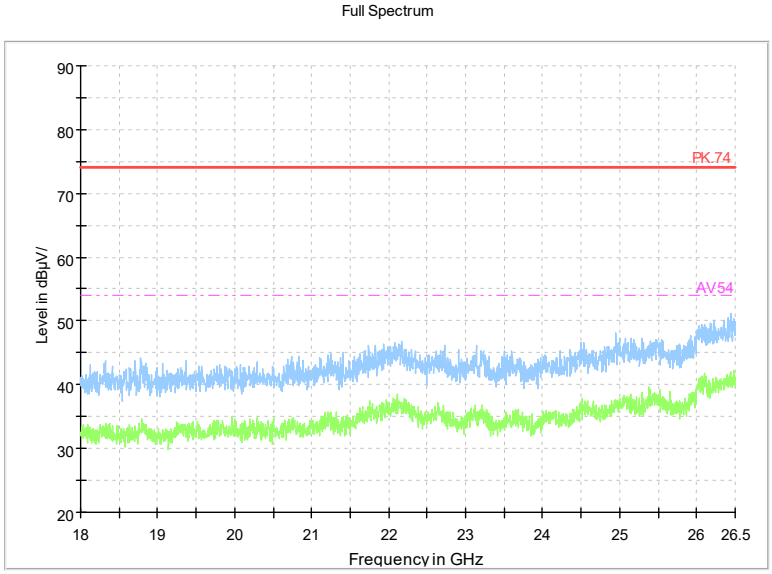

Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)




Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

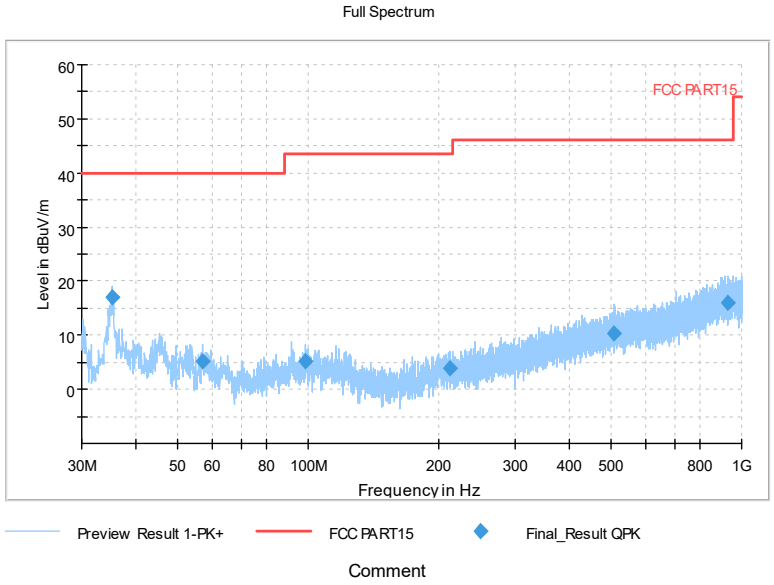



Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

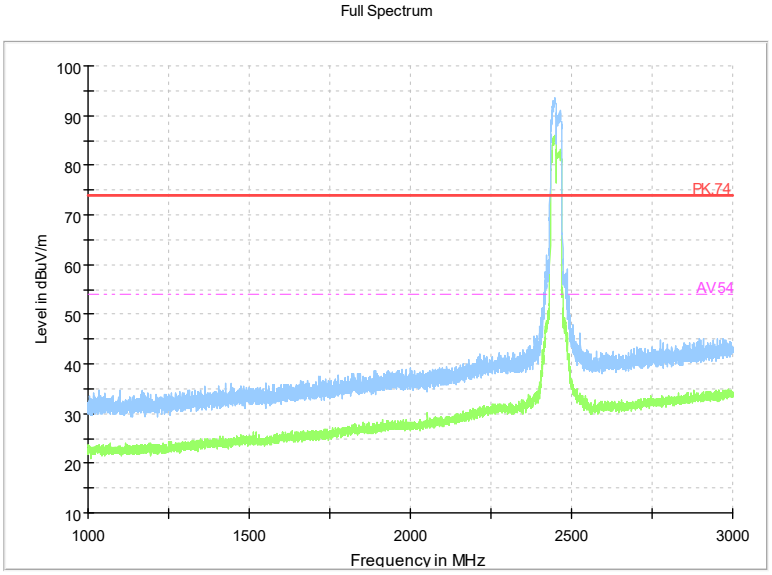



Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

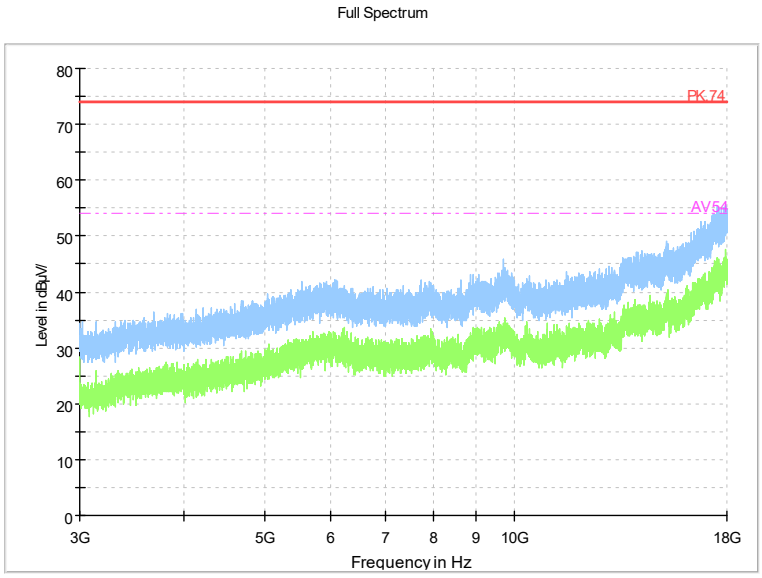
Carrier frequency (MHz): 2452
Channel No.:9



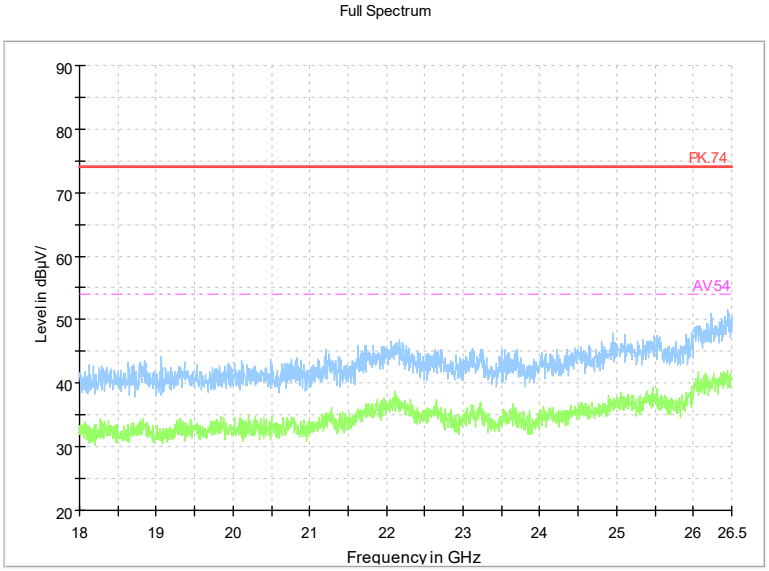

Frequency Range: 30MHz -1GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)




Frequency Range: 1GHz -3GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)




Frequency Range: 3GHz -18GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)




Frequency Range: 18GHz -26GHz
Detector: Av mode and PK mode
Modulation type: 802.11n(HT40)

*MEASUREMENT RESULT:*

| Frequency (MHz) | QuasiPeak (dBµV) | Average (dBµV) | Limit (dBµV) | Margin (dB) | Line | Corr. (dB) | PmeaQuasiPeak (dBµV) | Pmea Average (dBµV) |
|---|---|---|---|---|---|---|---|---|
| 0.154264 | 32.06 | --- | 65.77 | 33.71 | N | 29.7 | 2.36 | --- |
| 0.354686 | --- | 16.03 | 48.85 | 32.82 | N | 29.7 | --- | -13.67 |
| 0.393064 | 21.51 | --- | 58 | 36.49 | N | 29.7 | -8.19 | --- |
| 0.862136 | --- | 15.94 | 46 | 30.06 | L1 | 29.8 | --- | -13.86 |
| 1.663822 | 17.09 | --- | 56 | 38.91 | L1 | 29.9 | -12.81 | --- |
| 1.774693 | --- | 16.01 | 46 | 29.99 | N | 29.8 | --- | -13.79 |
| 4.870564 | 18.66 | --- | 56 | 37.34 | L1 | 29.9 | -11.24 | --- |
| 4.947322 | --- | 18.08 | 46 | 27.92 | L1 | 29.9 | --- | -11.82 |
| 12.038829 | --- | 24.32 | 50 | 25.68 | L1 | 30 | --- | -5.68 |
| 12.038829 | 25.62 | --- | 60 | 34.38 | L1 | 30 | -4.38 | --- |
| 13.561179 | --- | 17.25 | 50 | 32.75 | N | 30 | --- | -12.75 |
| 13.561179 | 18.5 | --- | 60 | 41.5 | N | 30 | -11.5 | --- |

---End of Test Report---