

## Appendix E \_ Radiated Test data and AC Power-Line Conducted Emission

### 1. Radiated spurious emissions

#### 9 kHz-30 MHz:

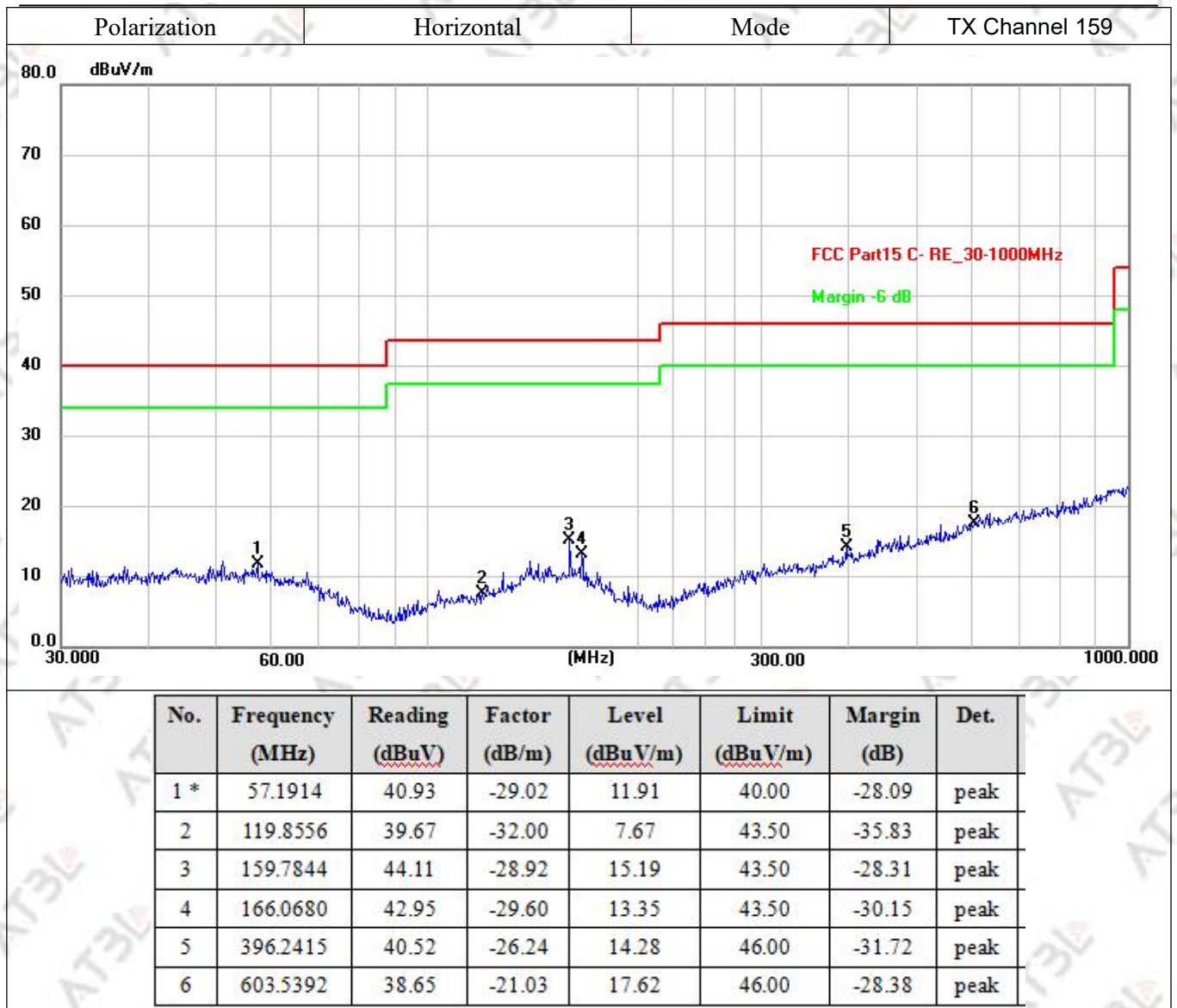
Note:

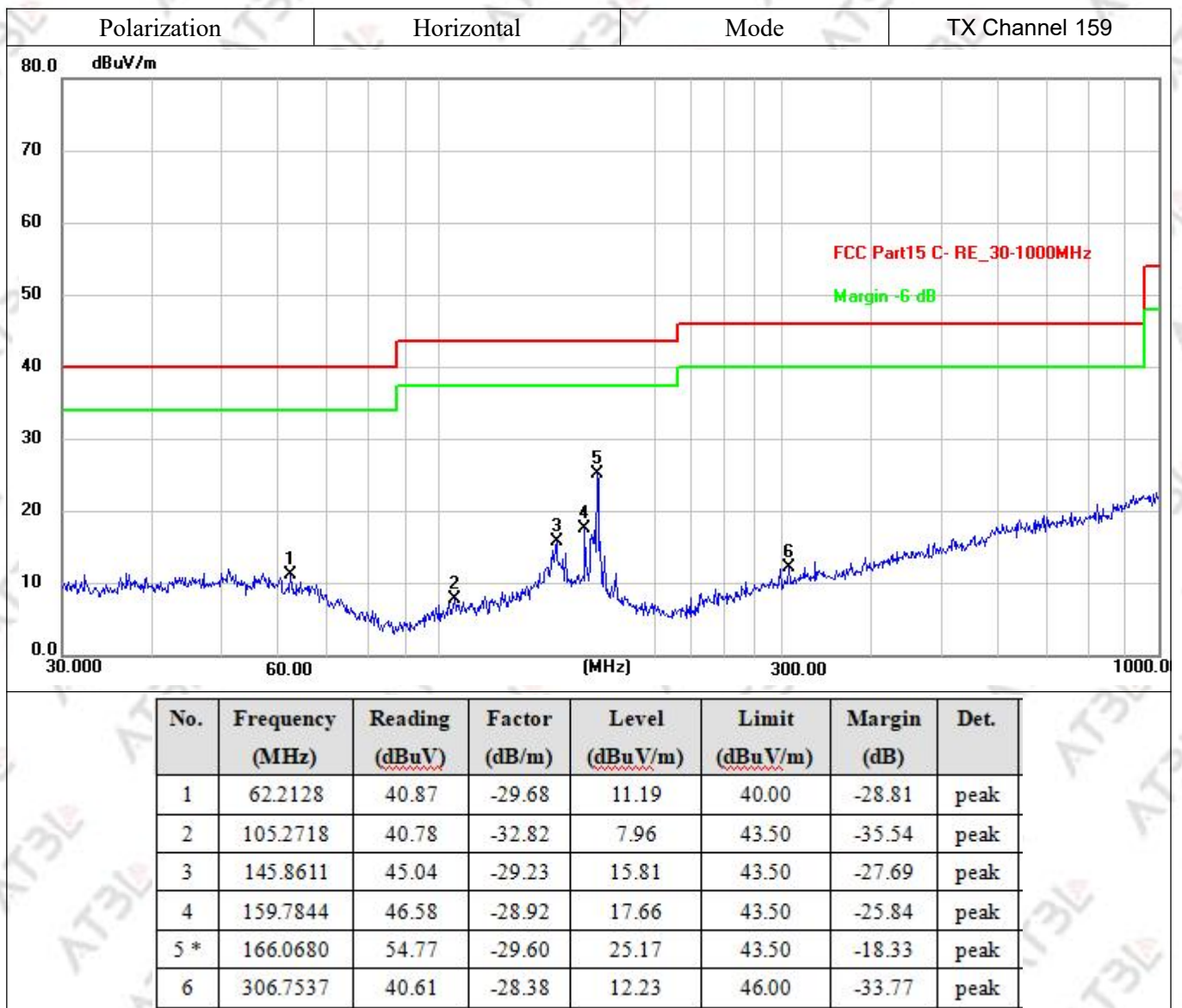
1. The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

#### Below 1GHz:

Note:

1. All modes have been tested, only worst case mimo(802.11n40-Channel 159 )mode was recorded in the test report.
2. Emission Level (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).
3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
4. The emission levels of other frequencies were less than 20dB margin against the limit.
5. Margin value = Emission level-Limit value.







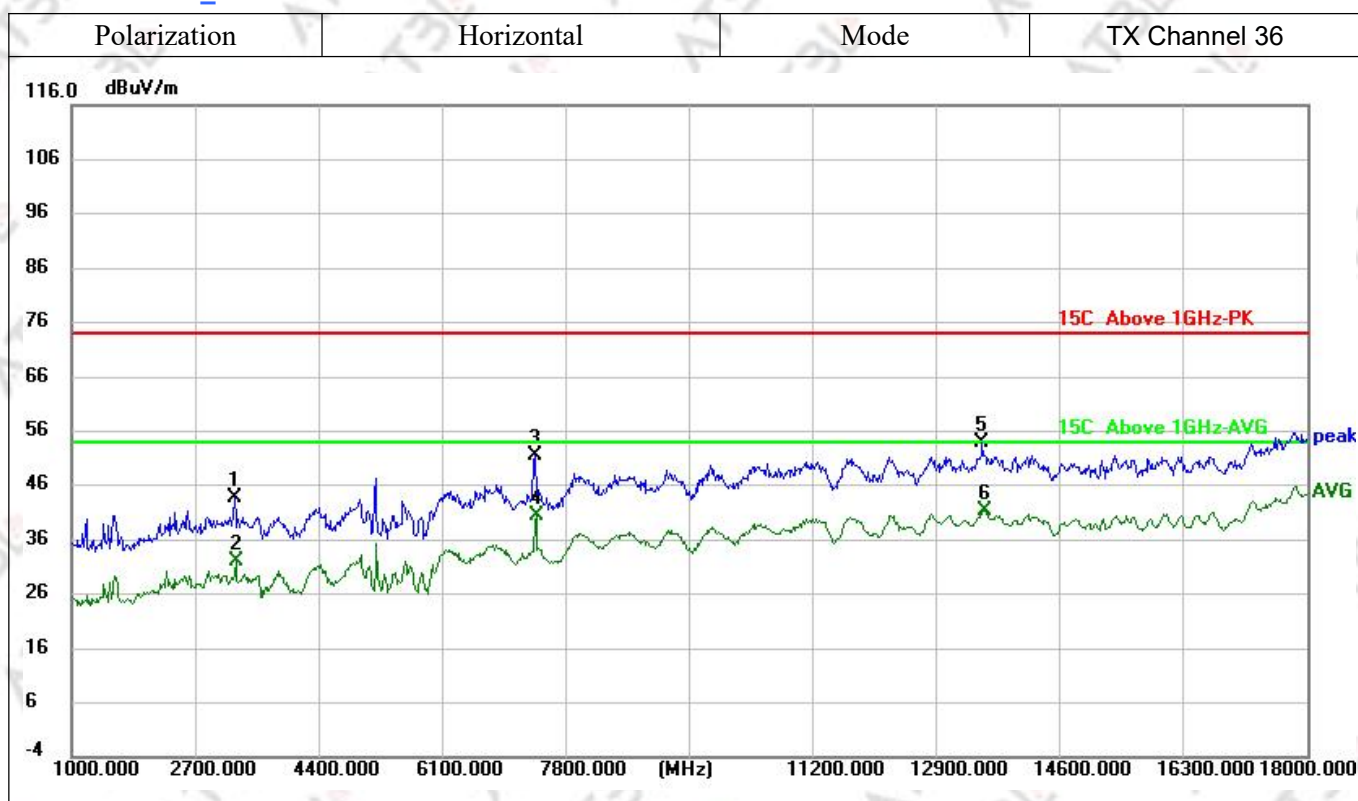
## Above 1GHz Data:

Note:

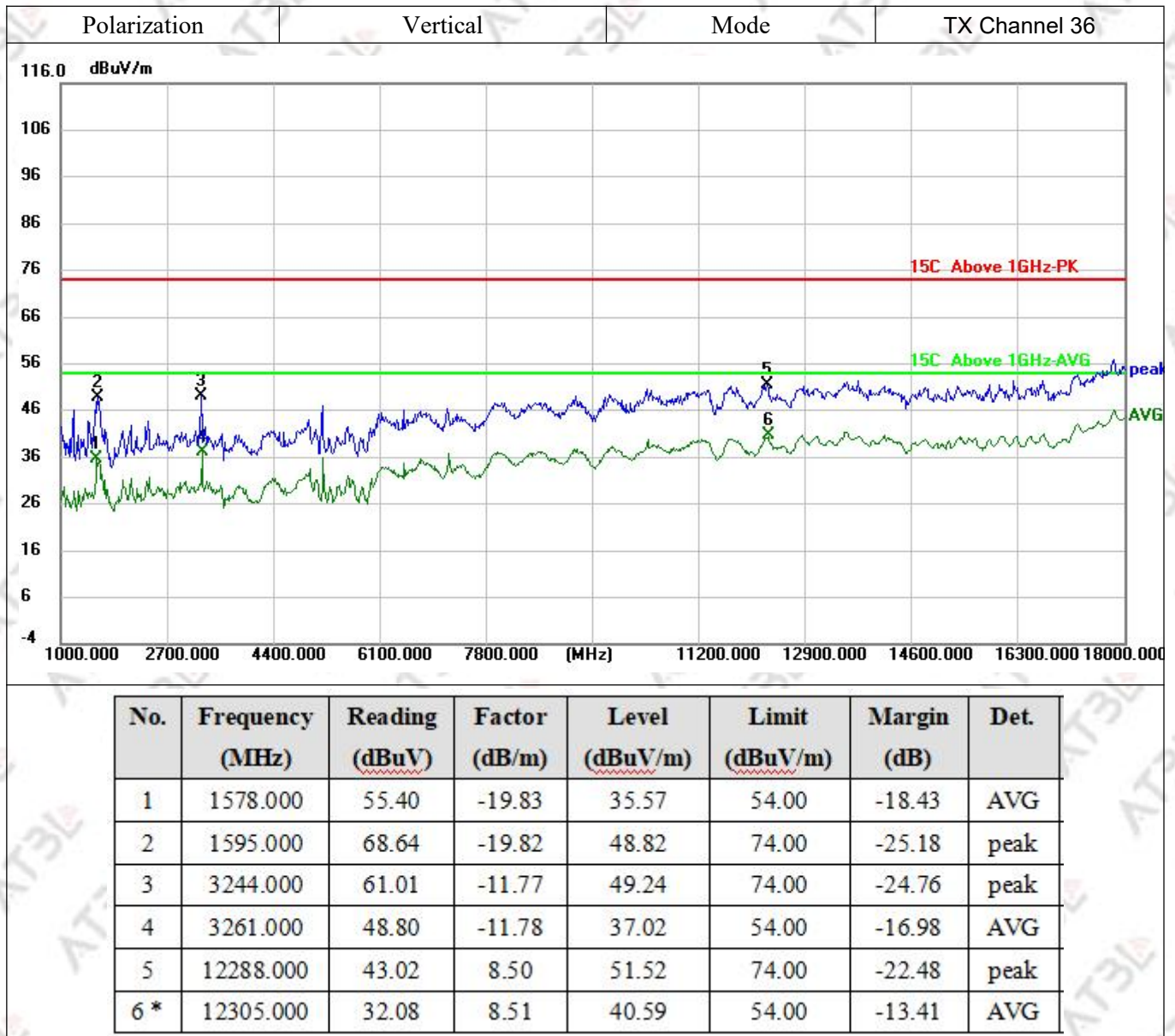
- 1.The worst test data above 1GHz is the 802.11a mode antenna 0, and 802.11n/ac is the MIMO mode test data was recorded in the test report.
- 2.In frequency ranges 18 ~40GHz no any other harmonic emissions detected which are tested to compliance with the limit. No recording in the test report. No any other emissions level which are attenuated less than 20dB below the limit. No recording in the test report.
- 3.We used the filter to test and the main frequency was filtered out.
- 4.Emission Level (dBuV/m) = Reading Value (dBuV) + Correction Factor (dB/m).
5. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
6. The emission levels of other frequencies were less than 20dB margin against the limit.
7. Margin value = Emission level-Limit value.

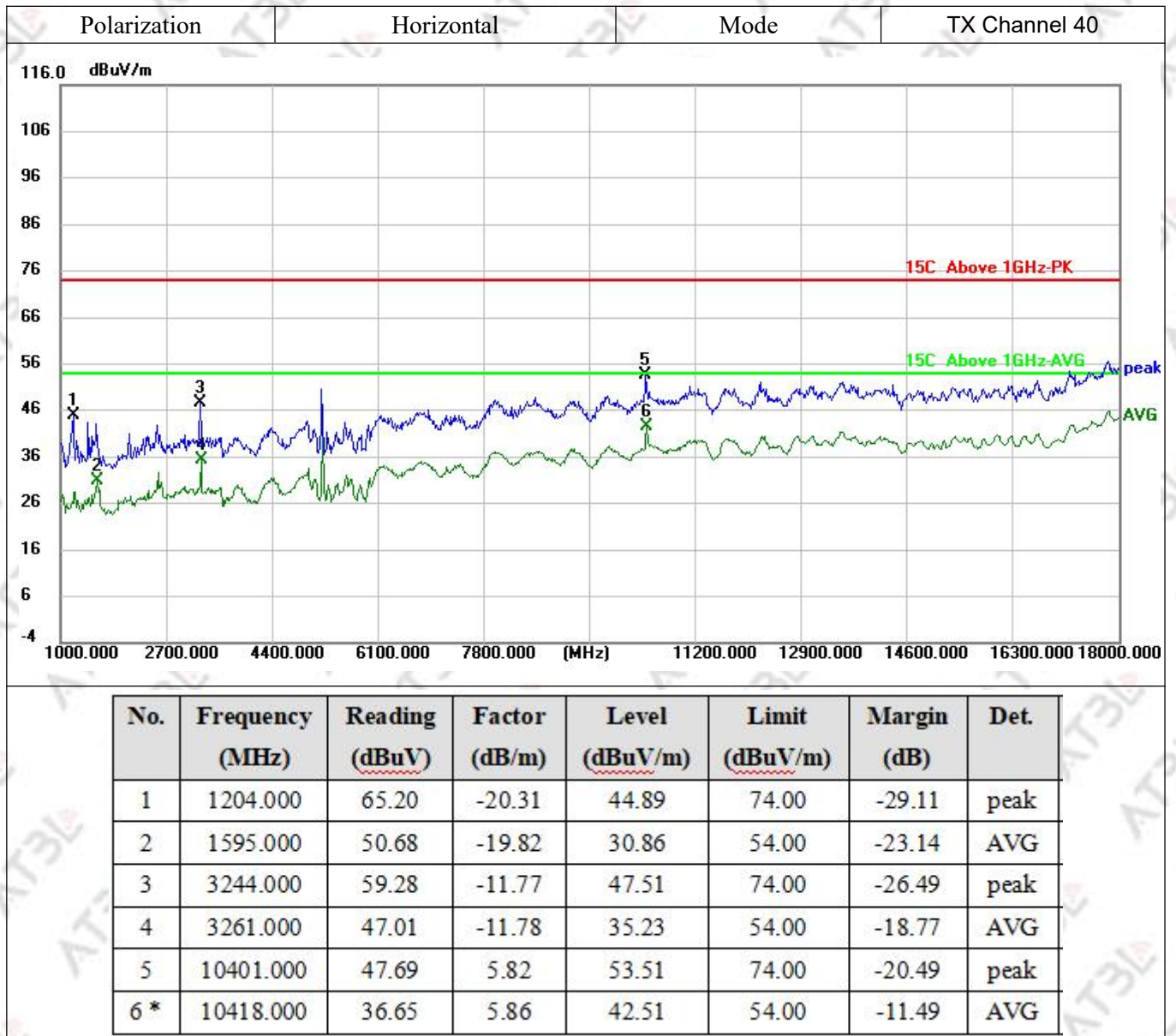
## U-NII-1 (5150-5250MHz):

### Worst 802.11a\_ANT0.

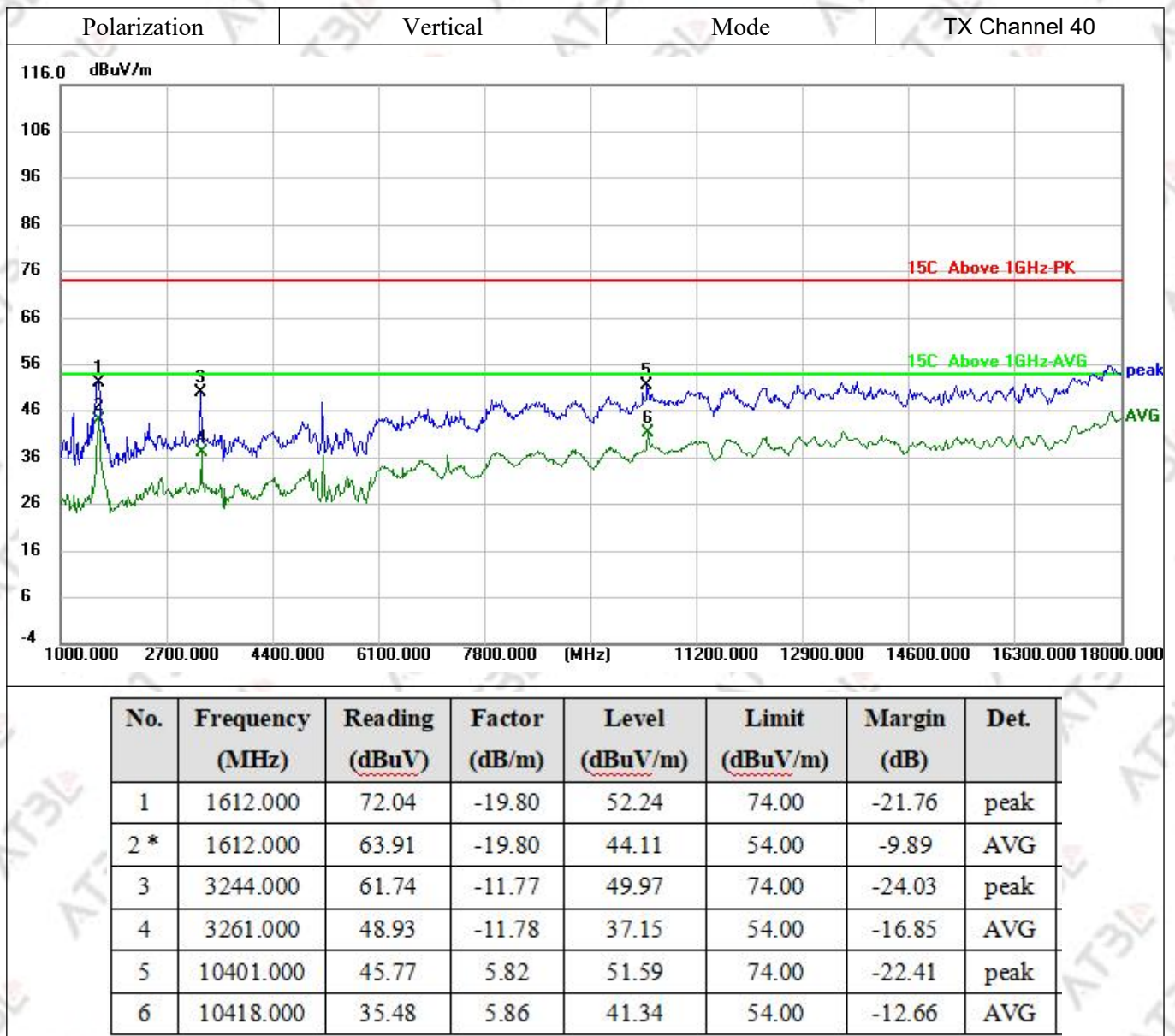


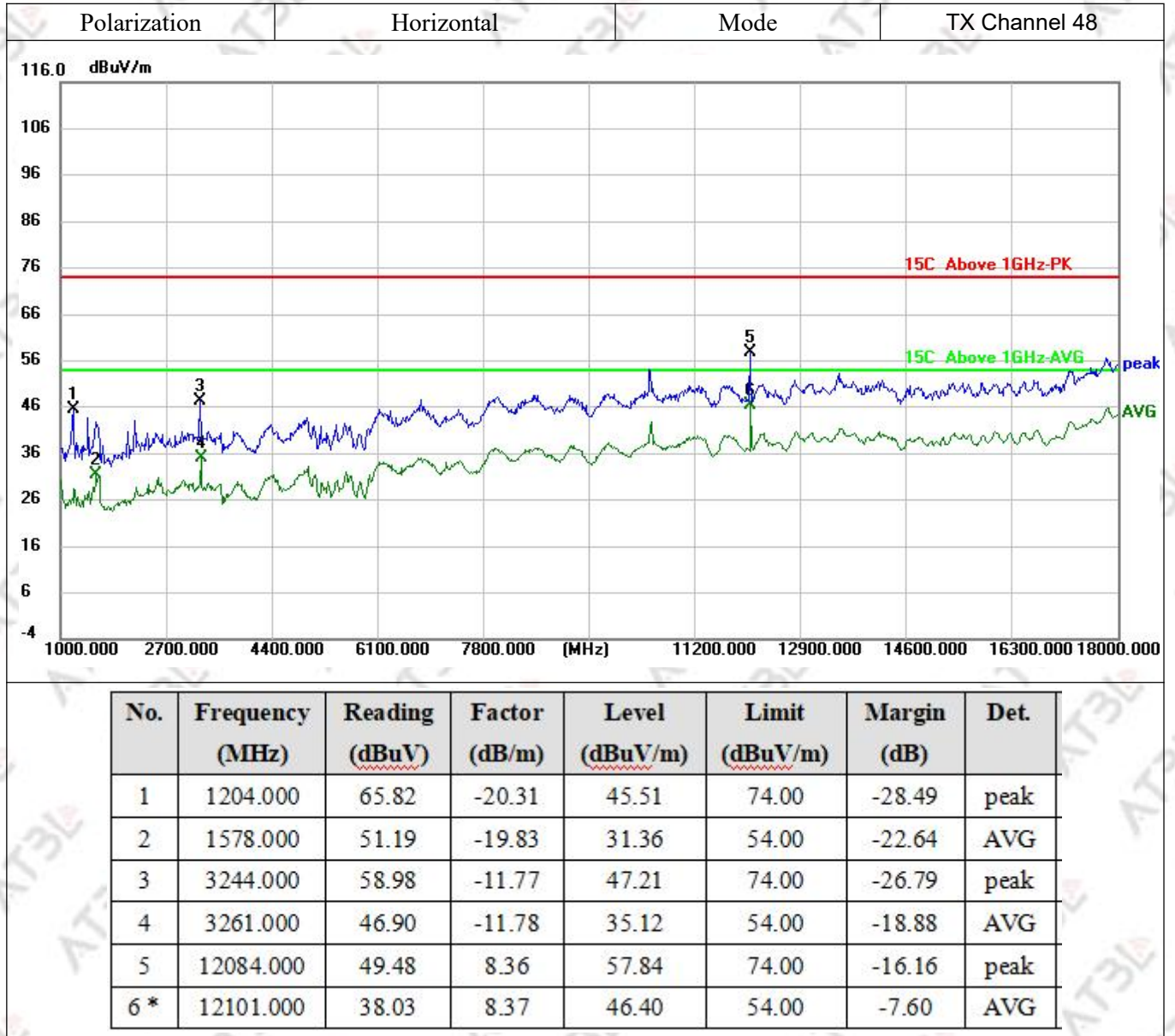
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 3244.000        | 55.57          | -11.77        | 43.80          | 74.00          | -30.20      | peak |
| 2   | 3261.000        | 43.77          | -11.78        | 31.99          | 54.00          | -22.01      | AVG  |
| 3   | 7375.000        | 51.88          | -0.35         | 51.53          | 74.00          | -22.47      | peak |
| 4   | 7392.000        | 40.74          | -0.36         | 40.38          | 54.00          | -13.62      | AVG  |
| 5   | 13529.000       | 43.70          | 10.18         | 53.88          | 74.00          | -20.12      | peak |
| 6 * | 13563.000       | 31.22          | 10.20         | 41.42          | 54.00          | -12.58      | AVG  |



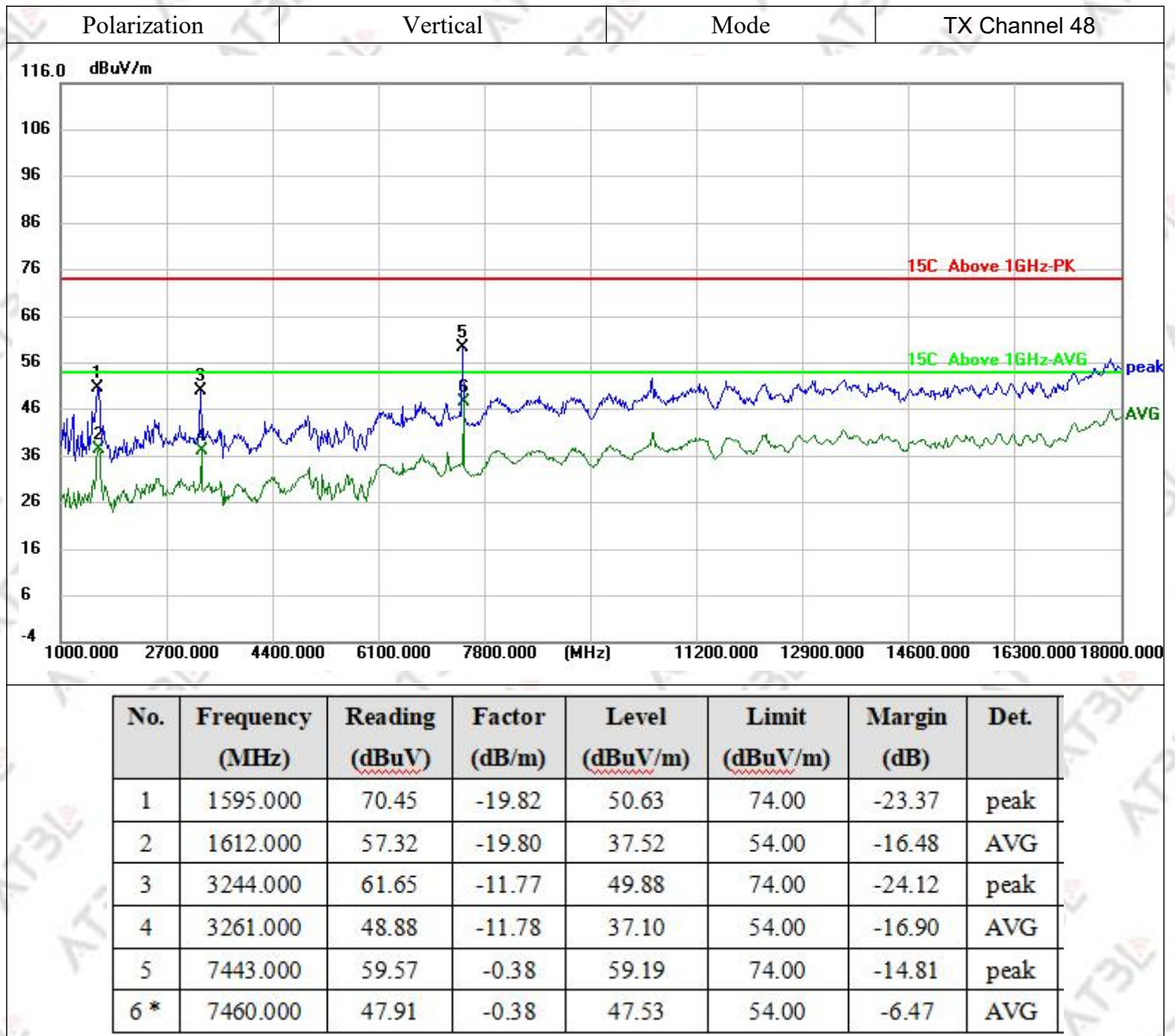






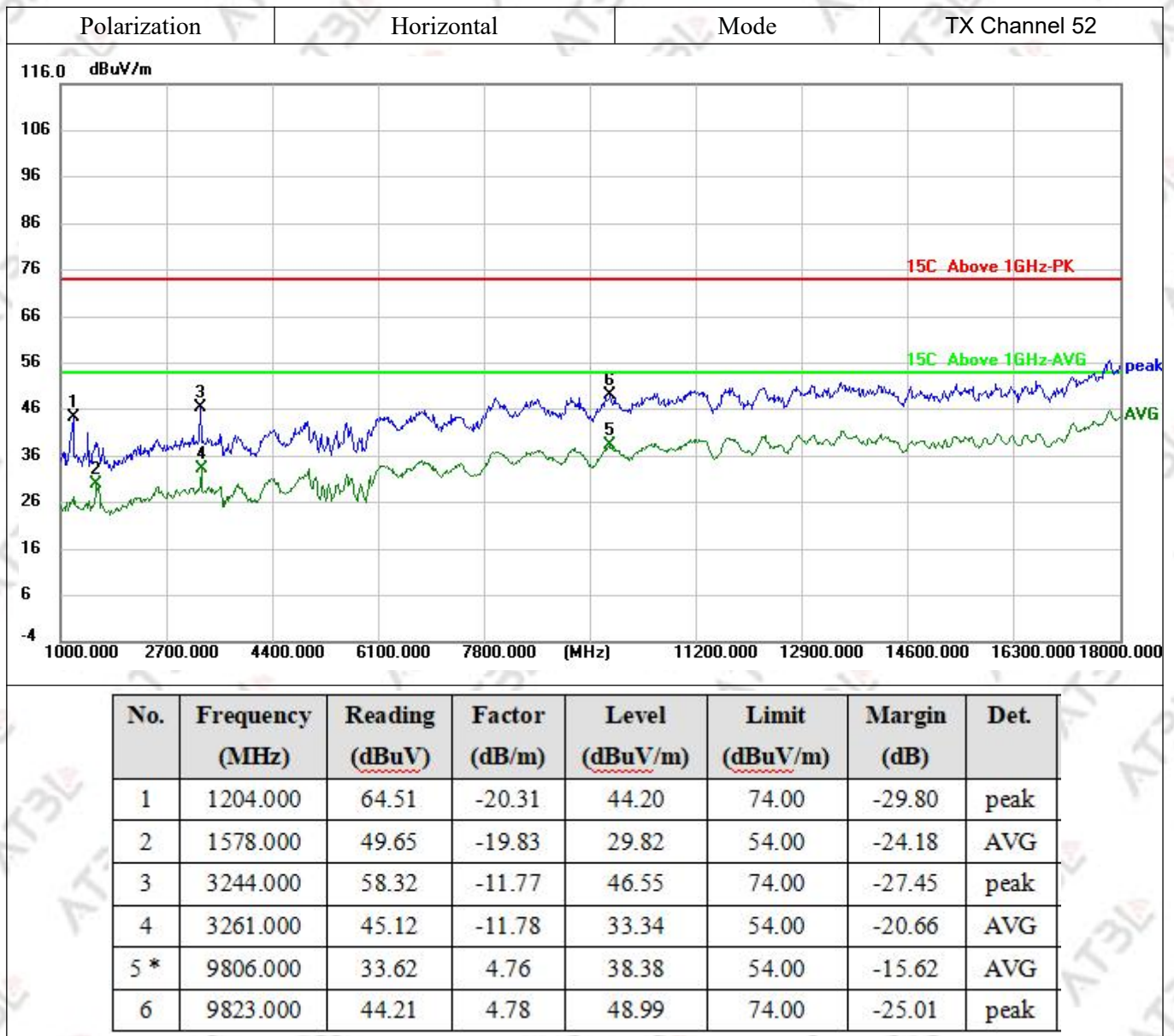


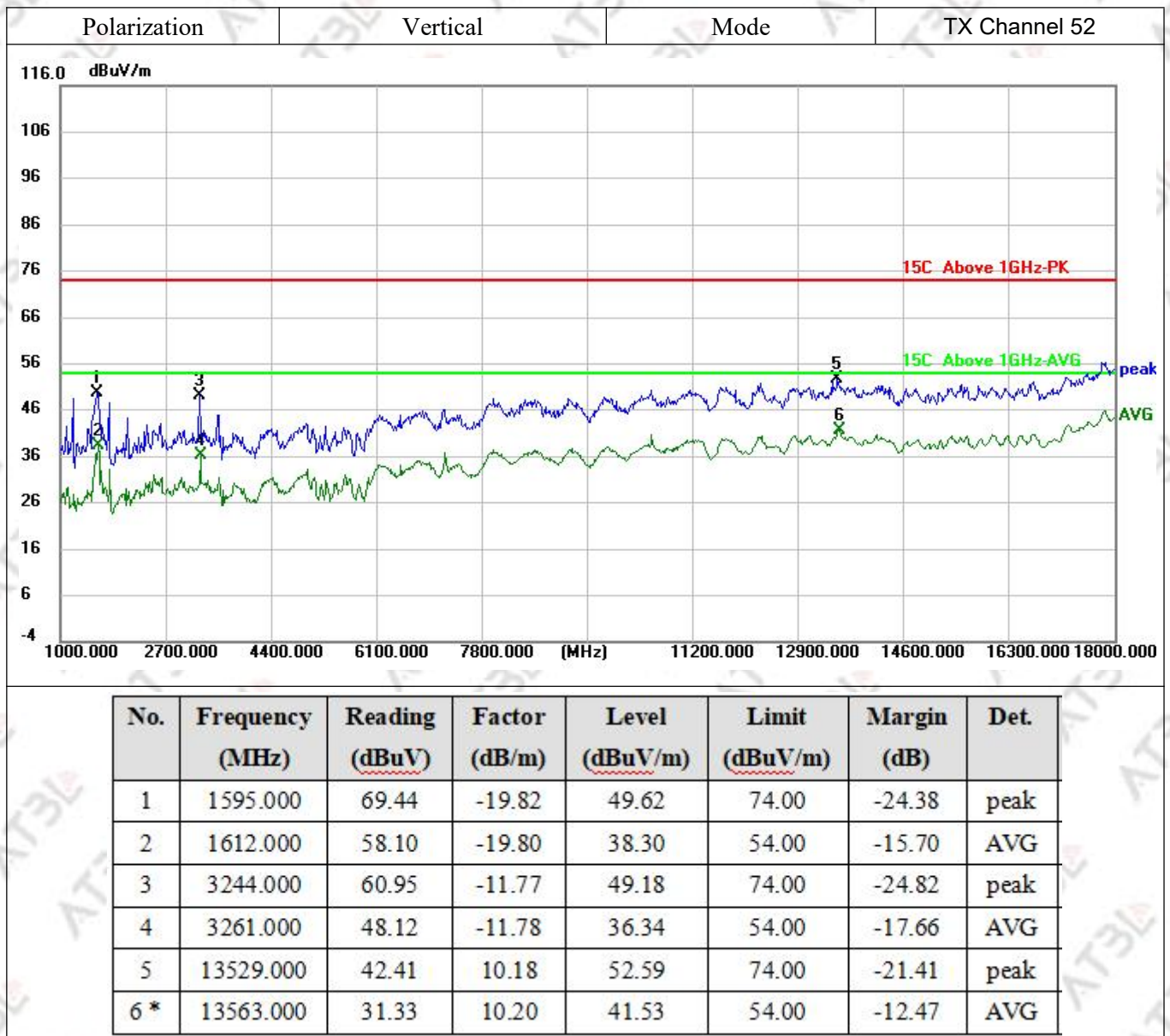




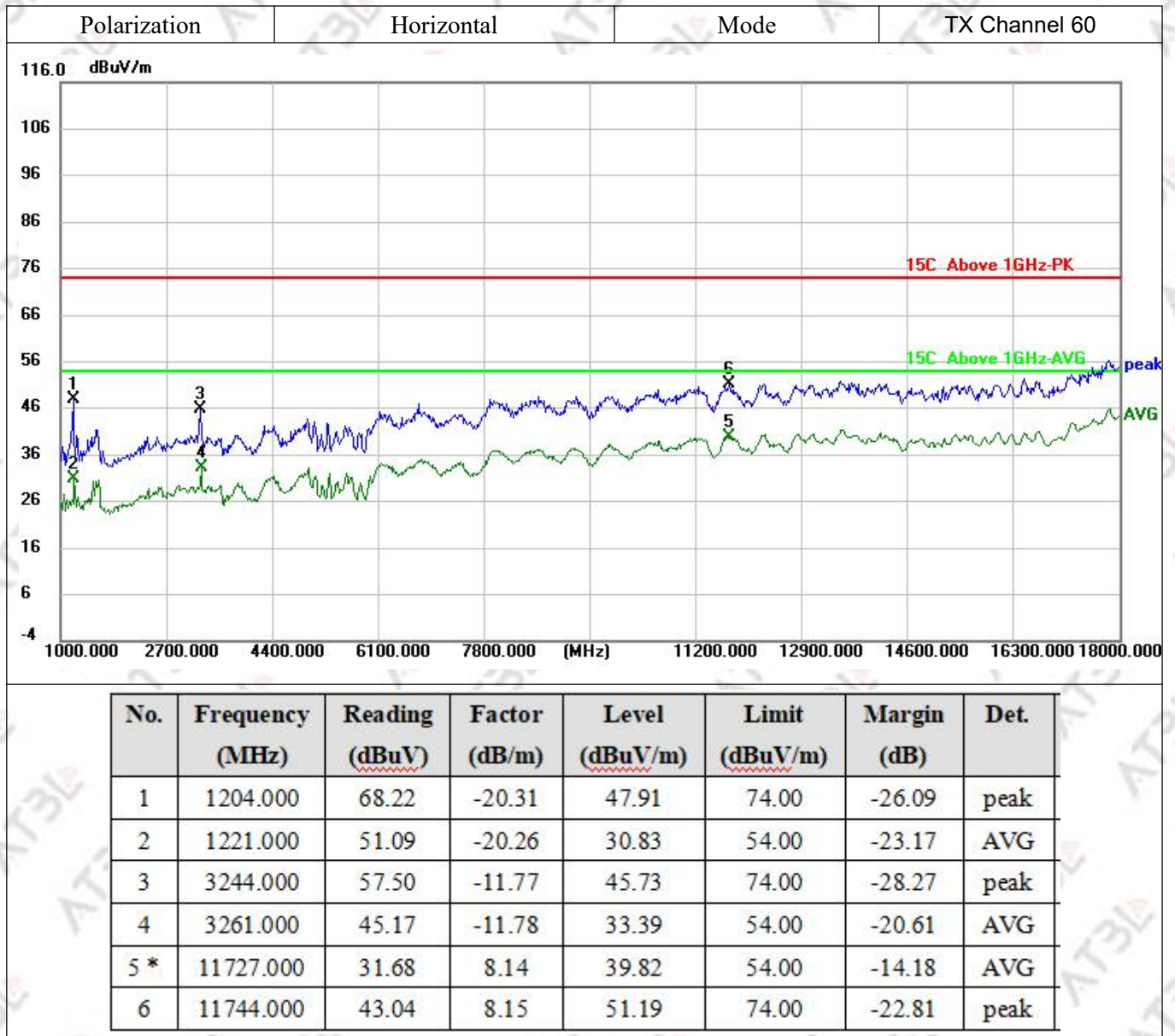
U-NII-2A (5250-5350MHz):

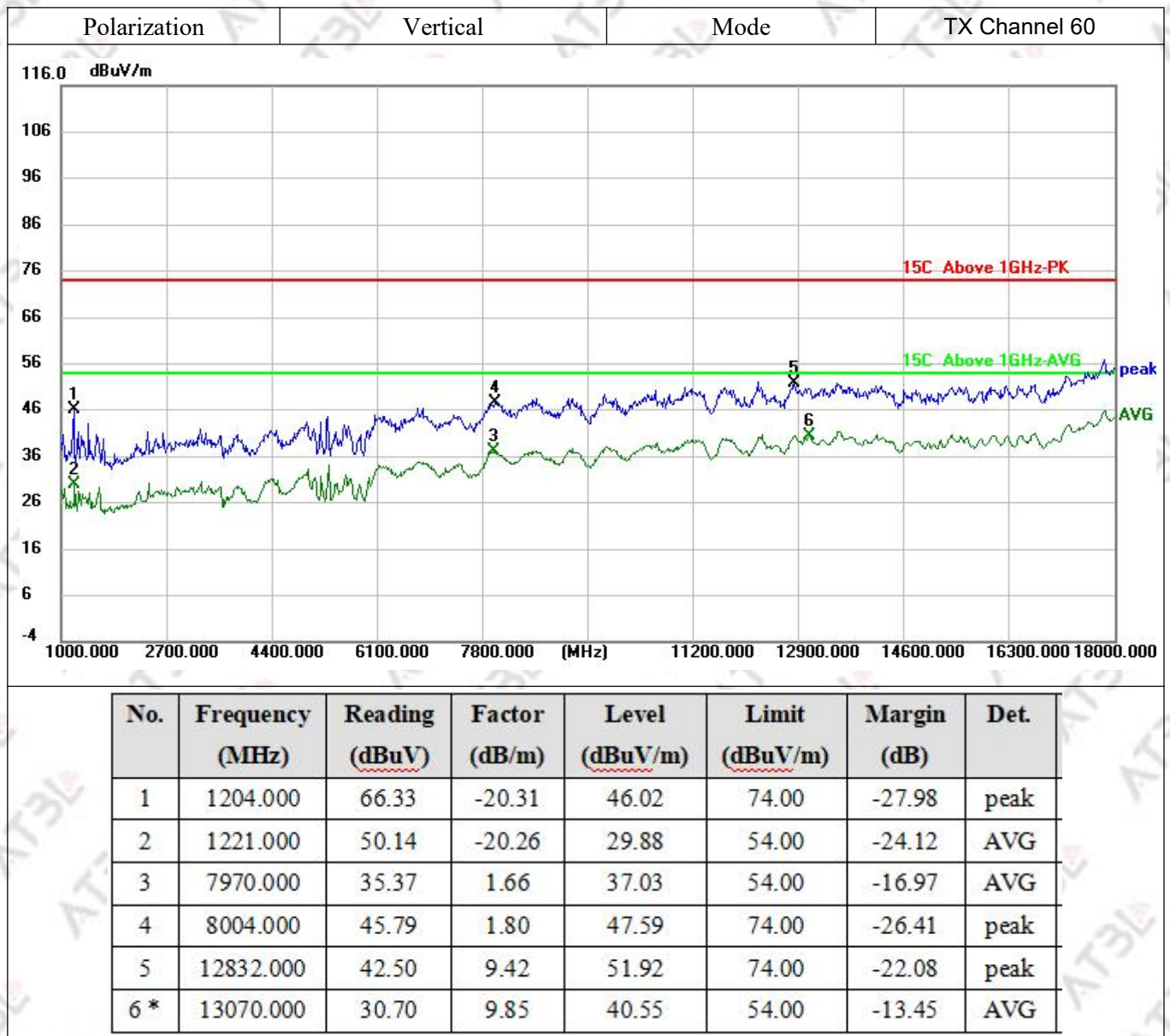
Worst 802.11a\_ANT0.

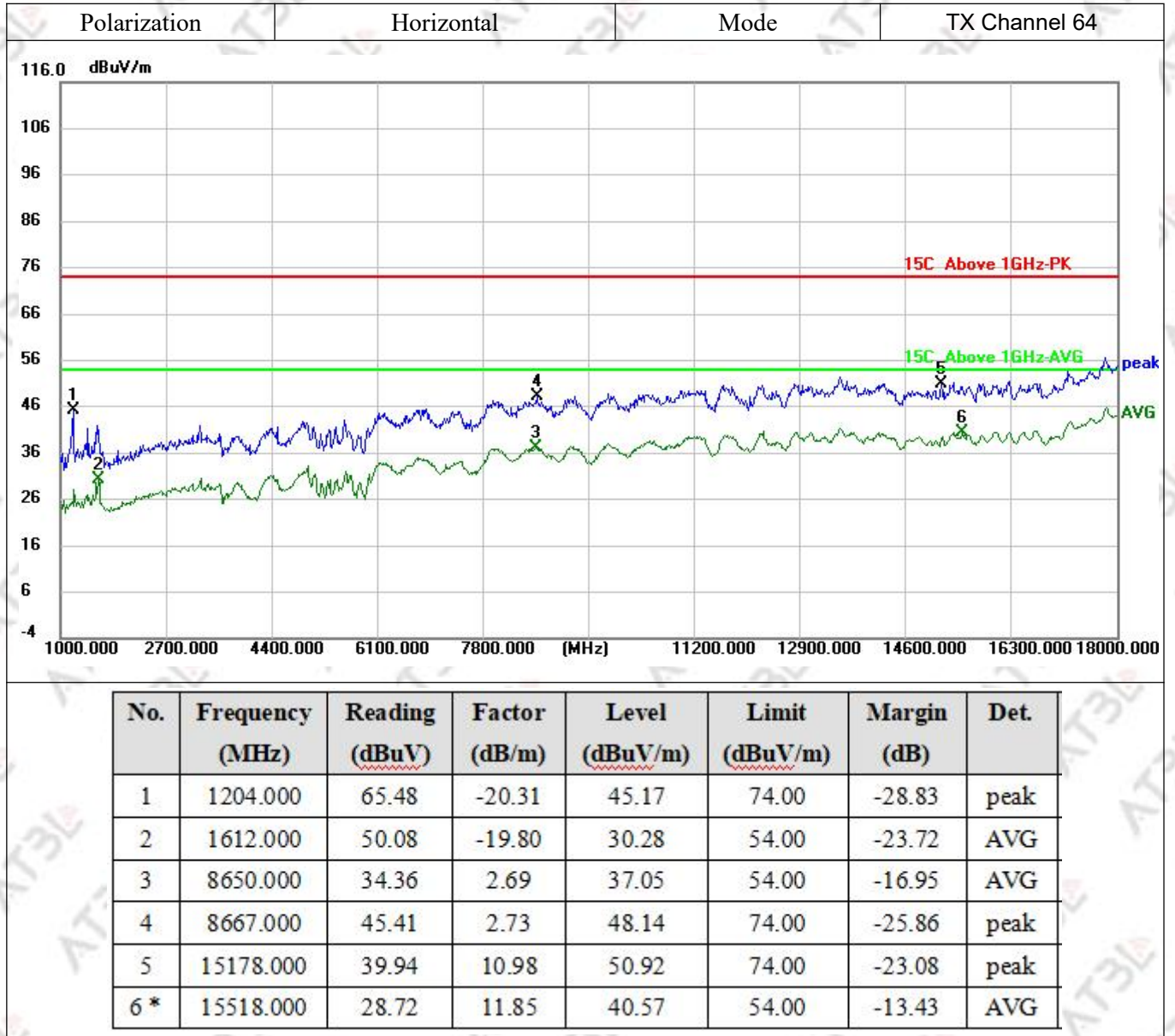




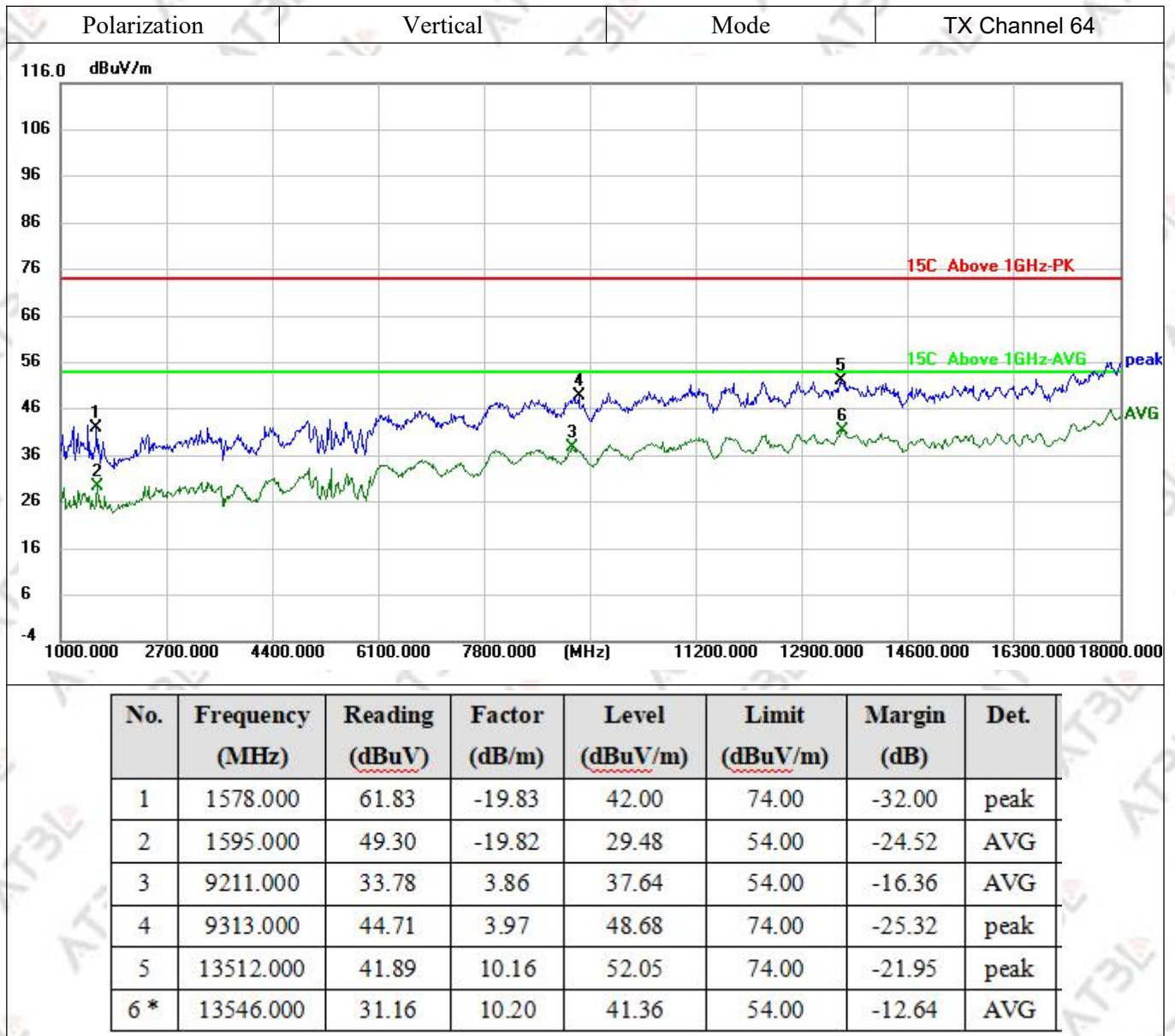






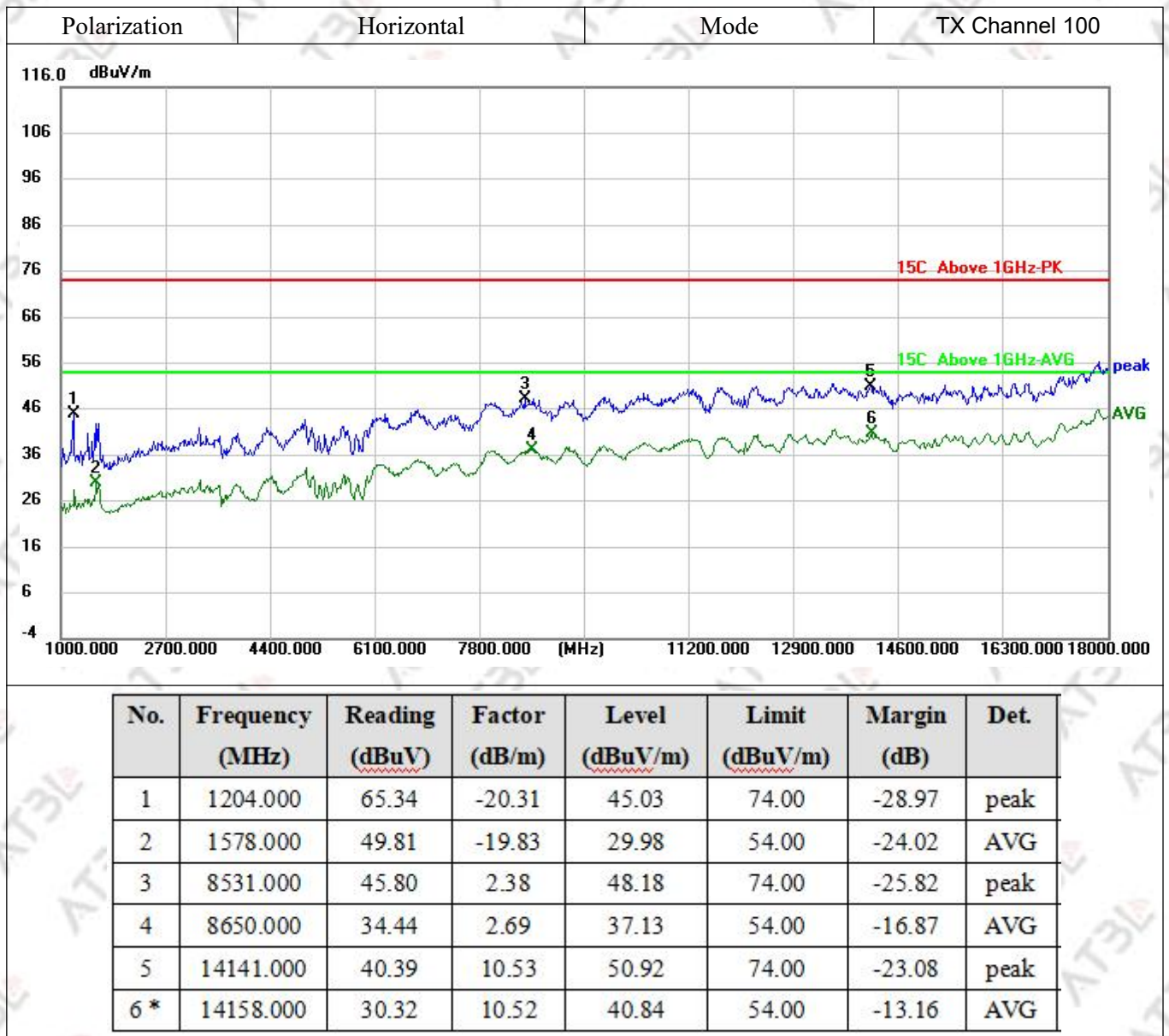


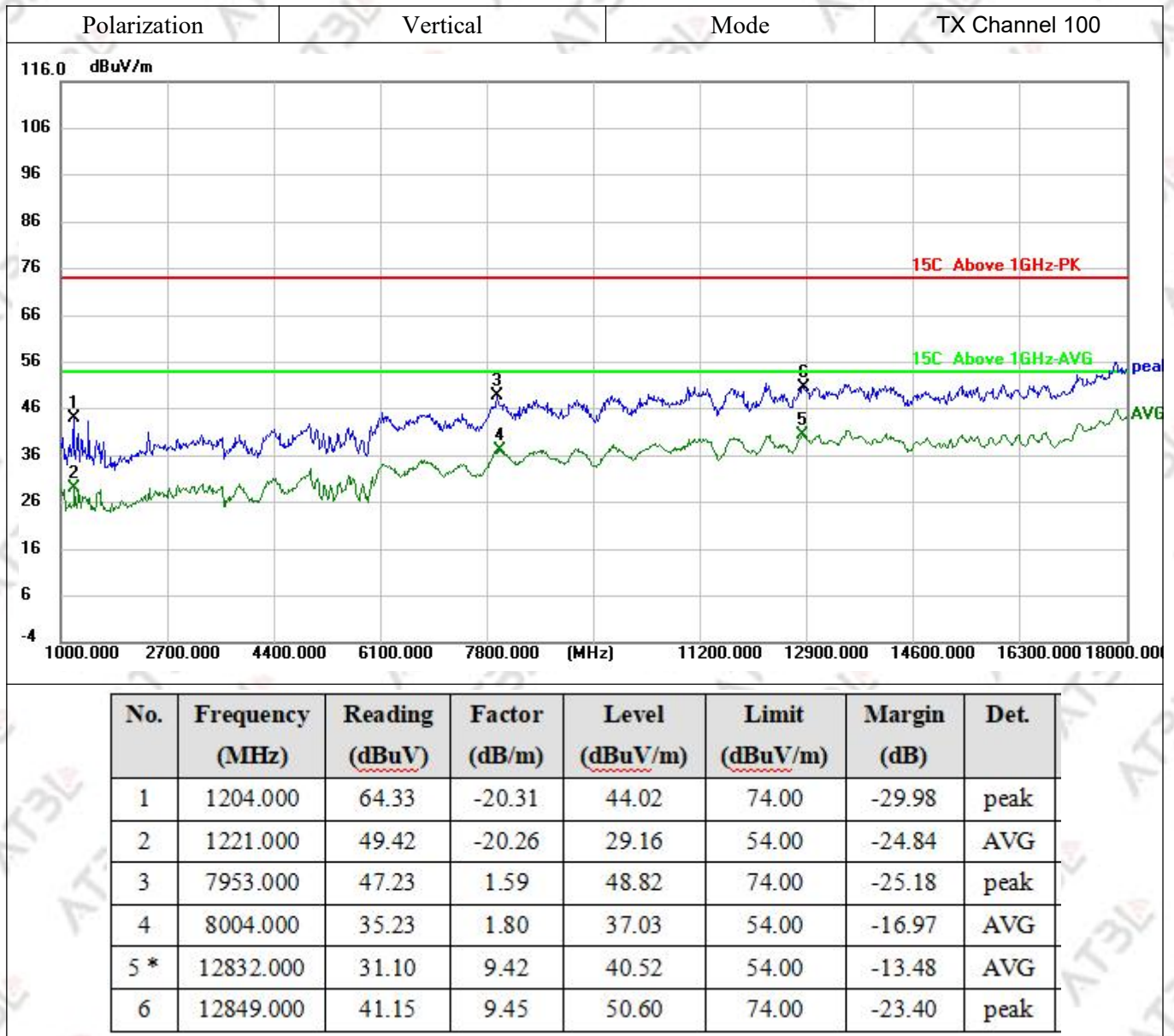




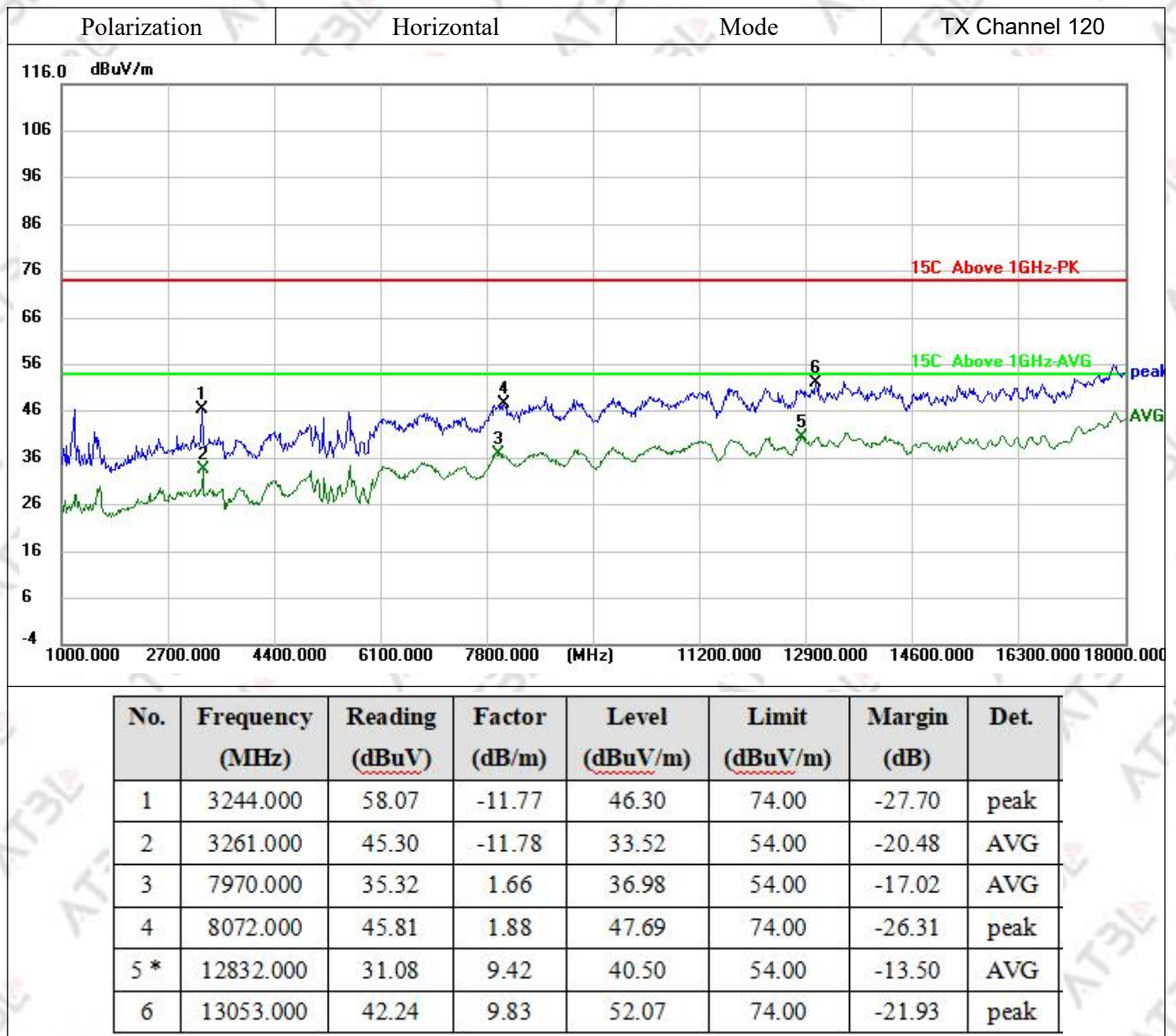
U-NII-2C (5470-5725MHz):

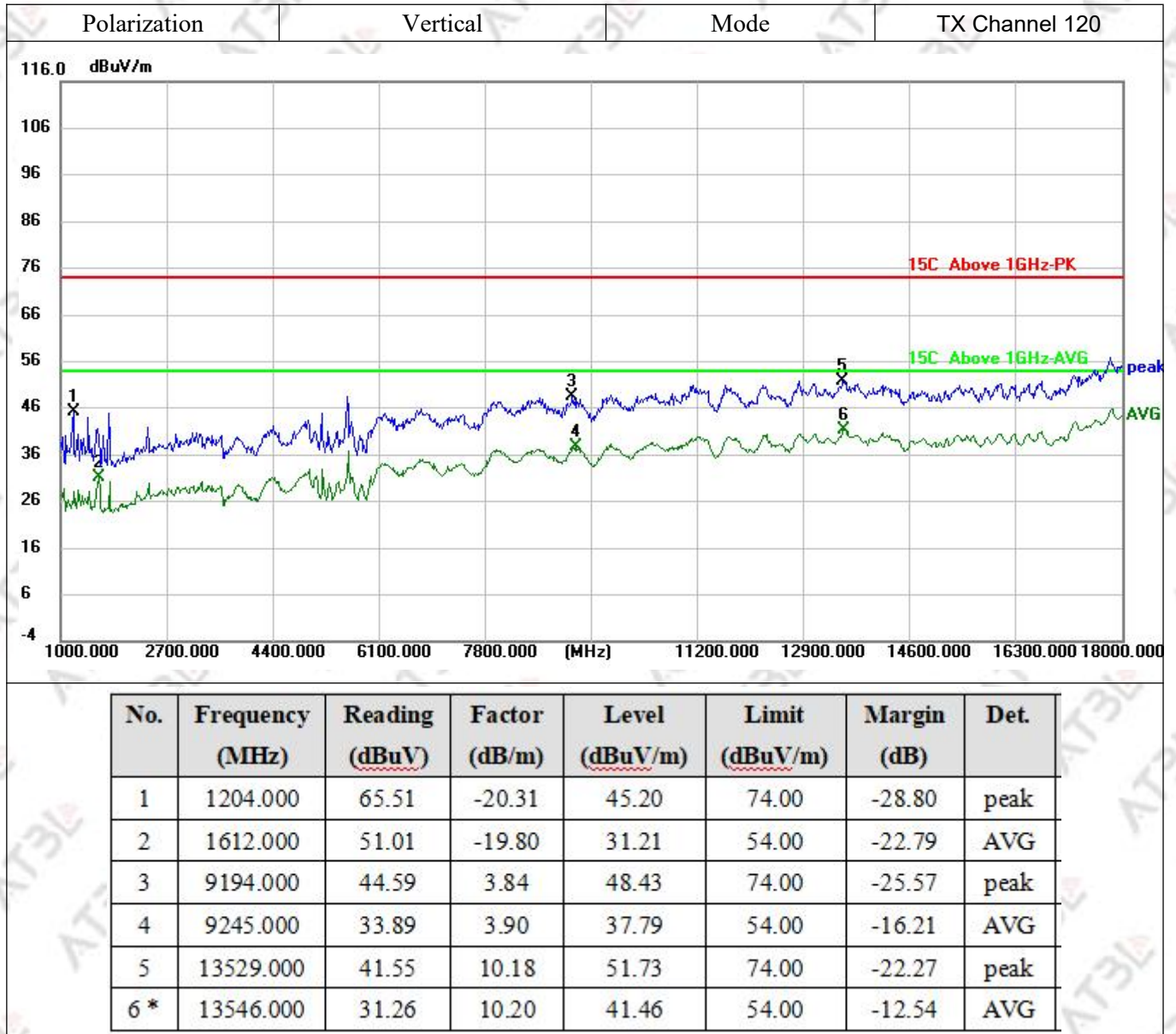
Worst 802.11a\_ANT0.

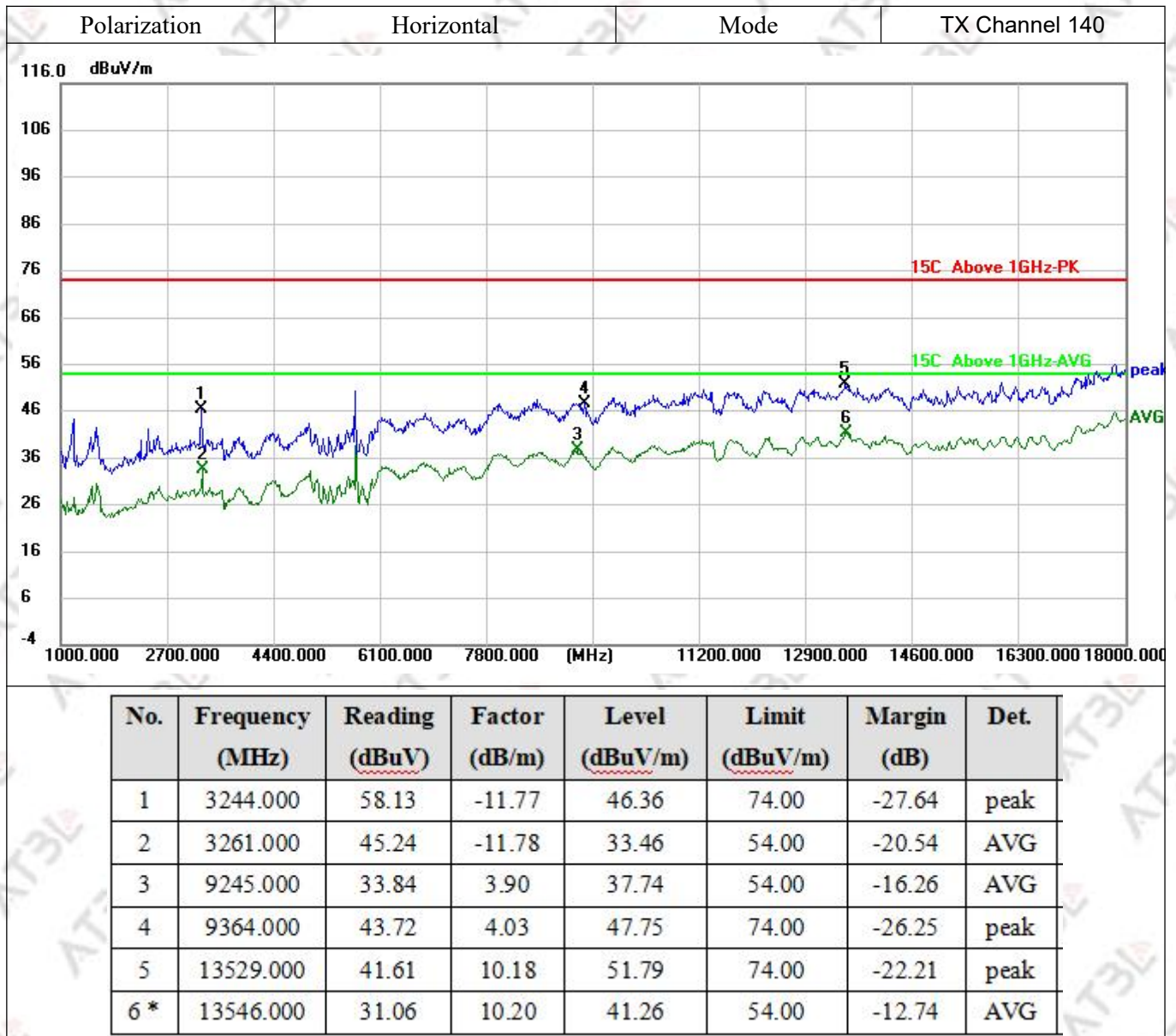




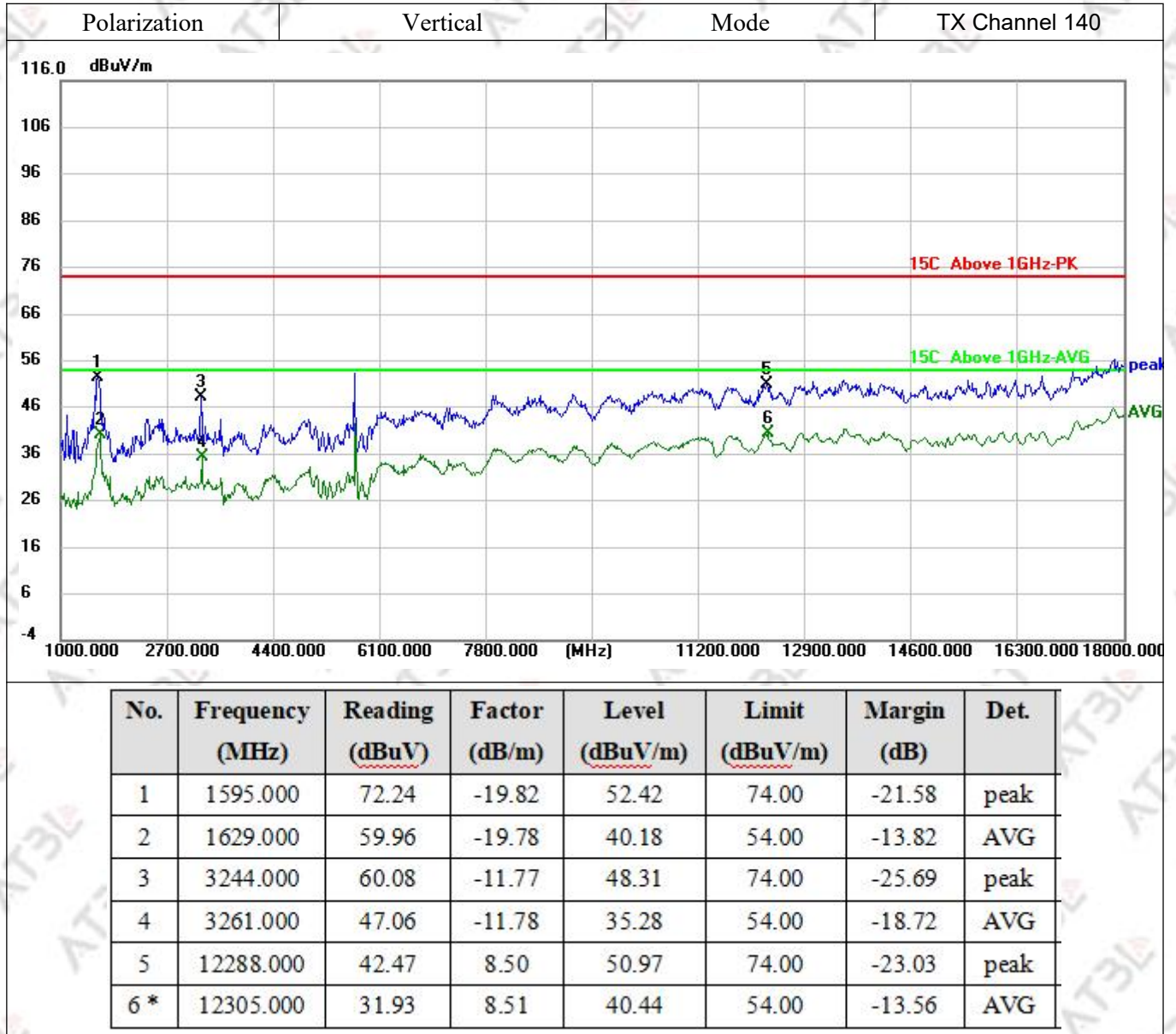






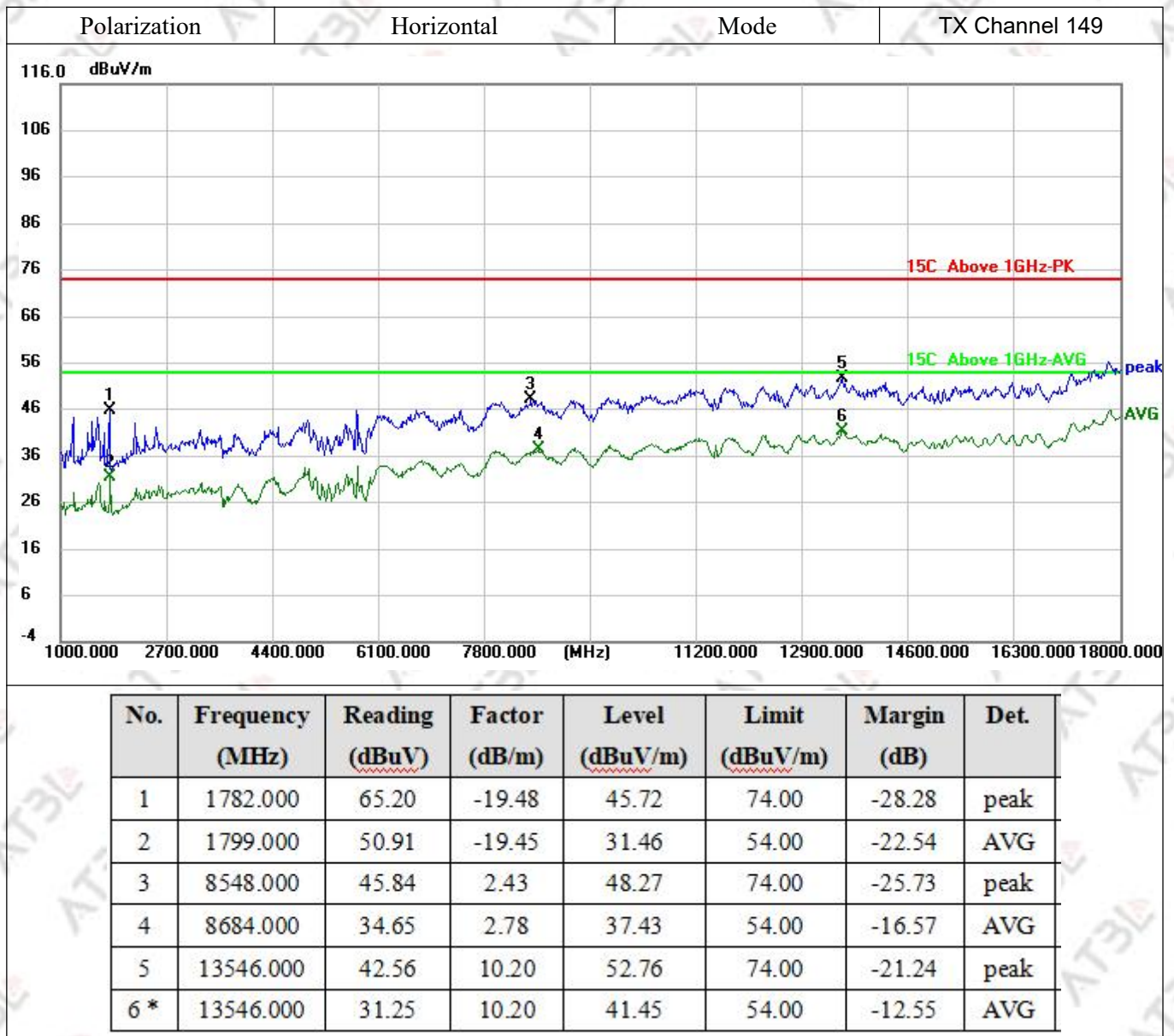


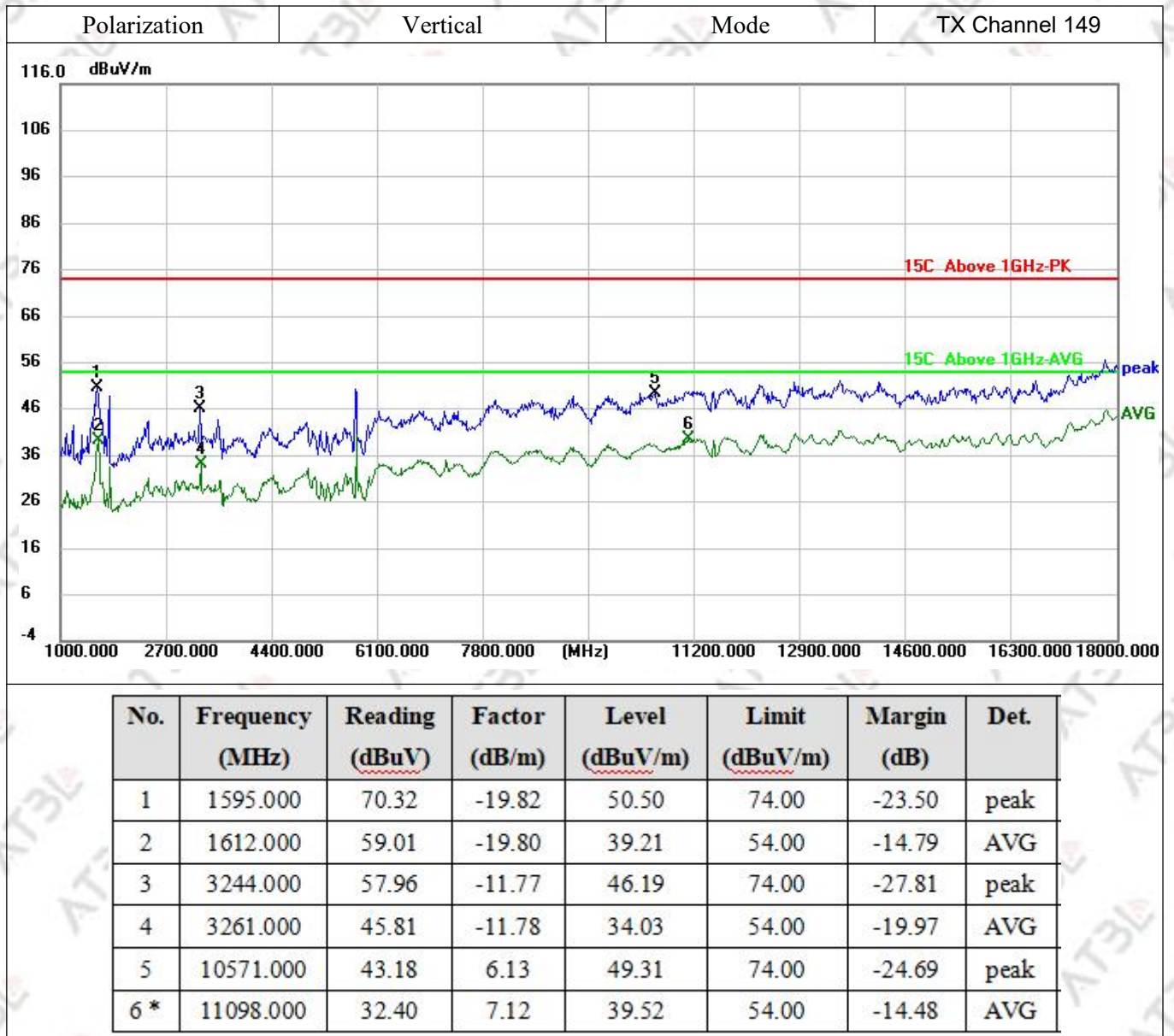




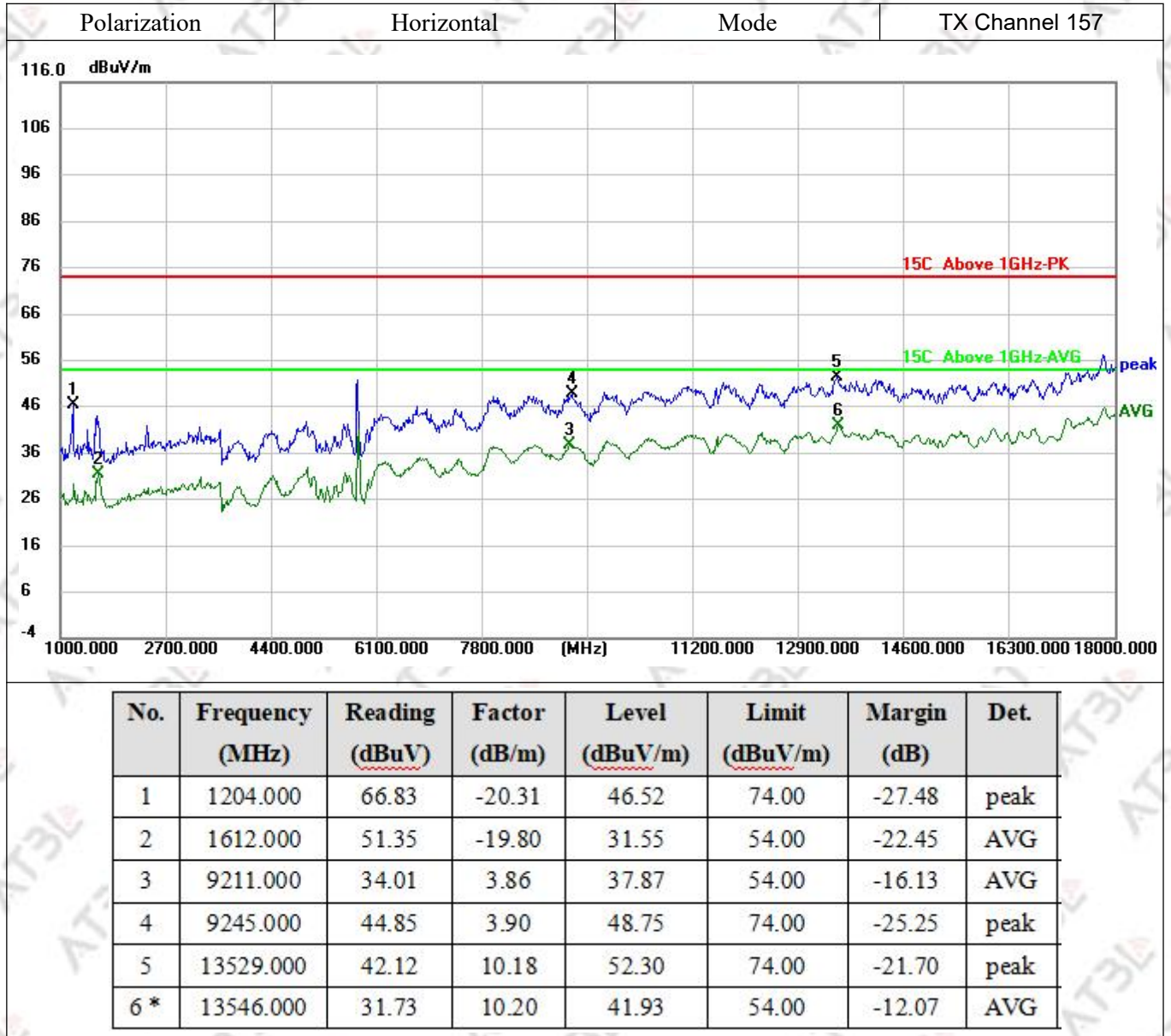
U-NII-3 (5725-5850MHz):

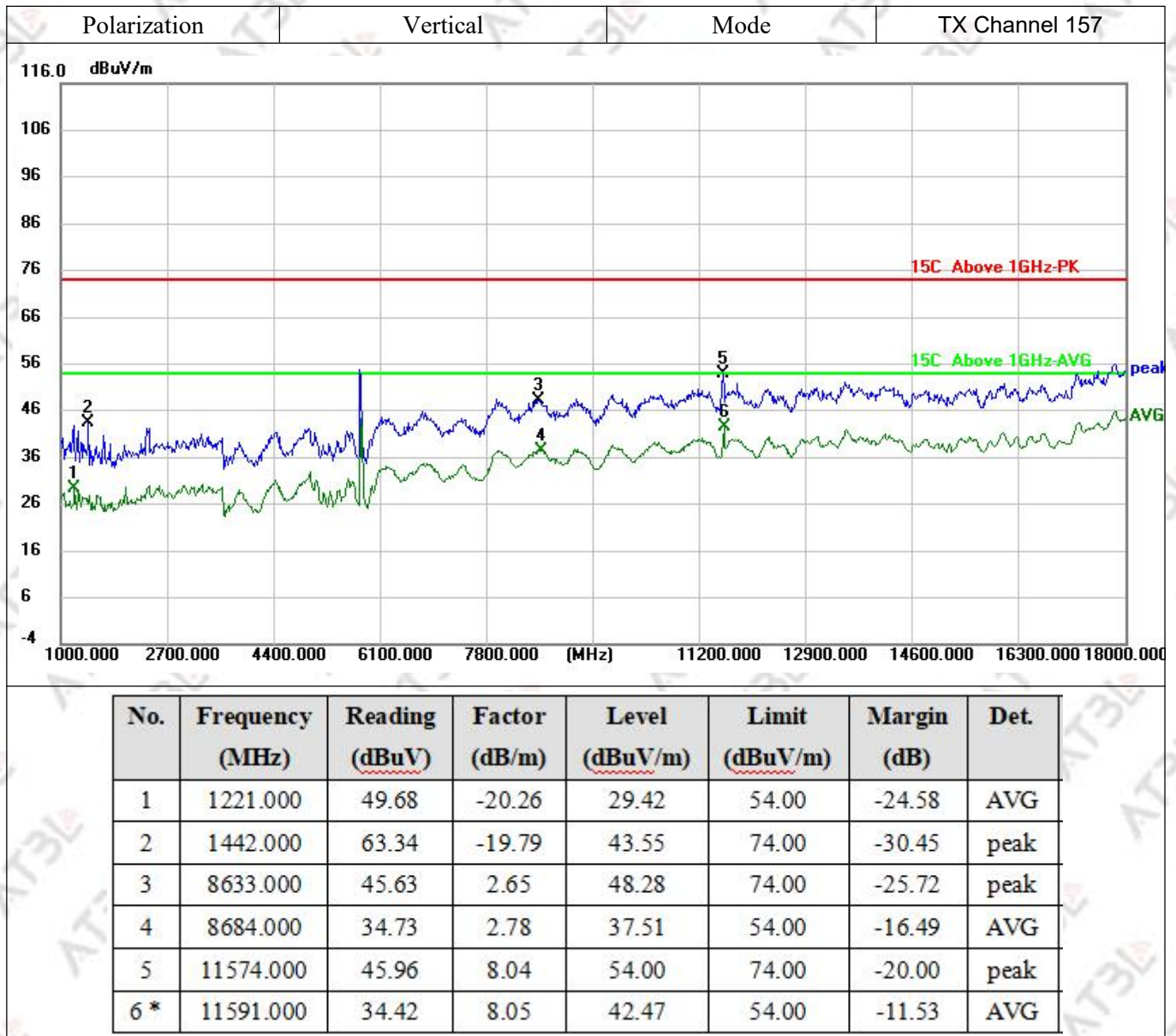
Worst 802.11a\_ANT0.

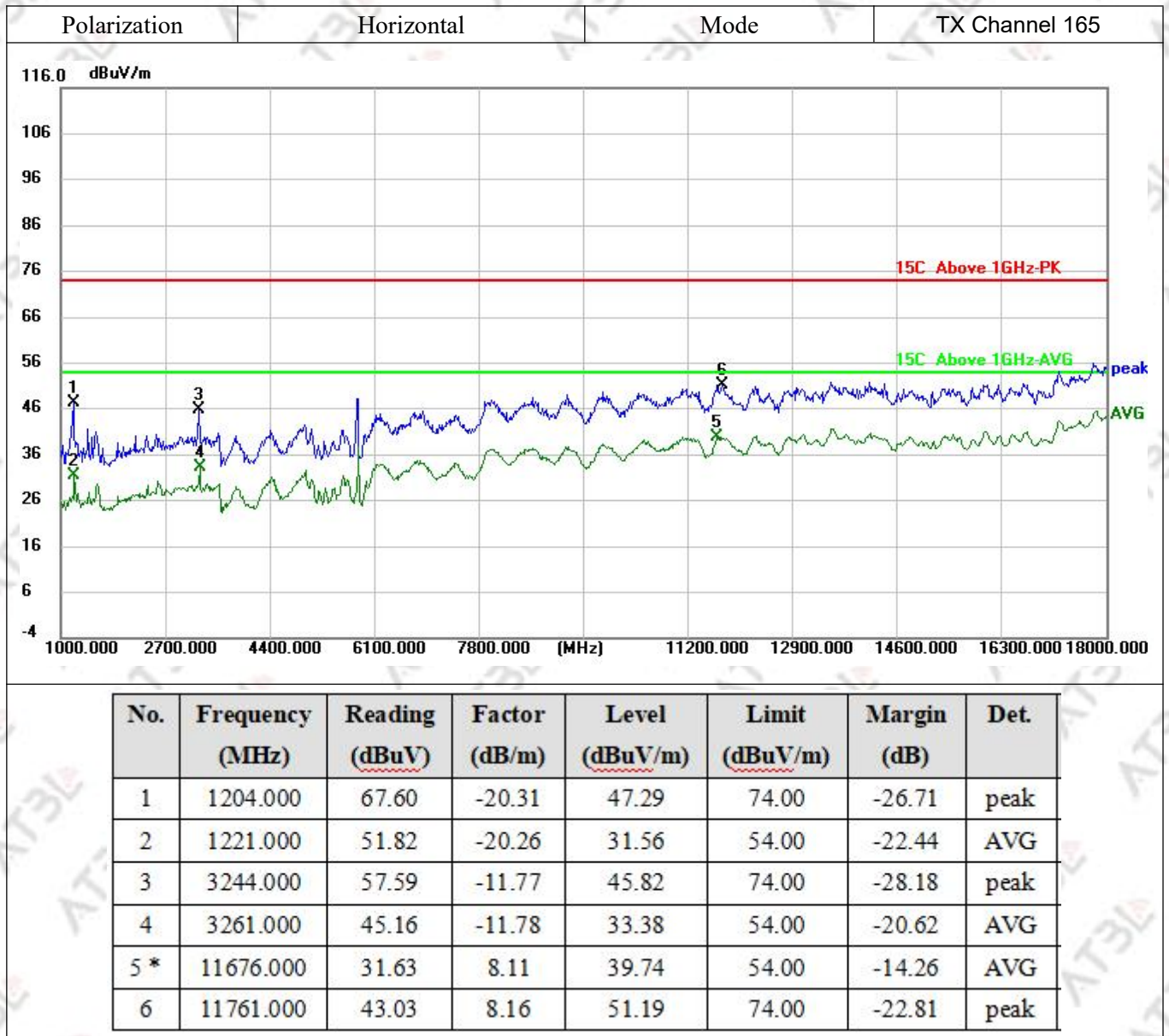




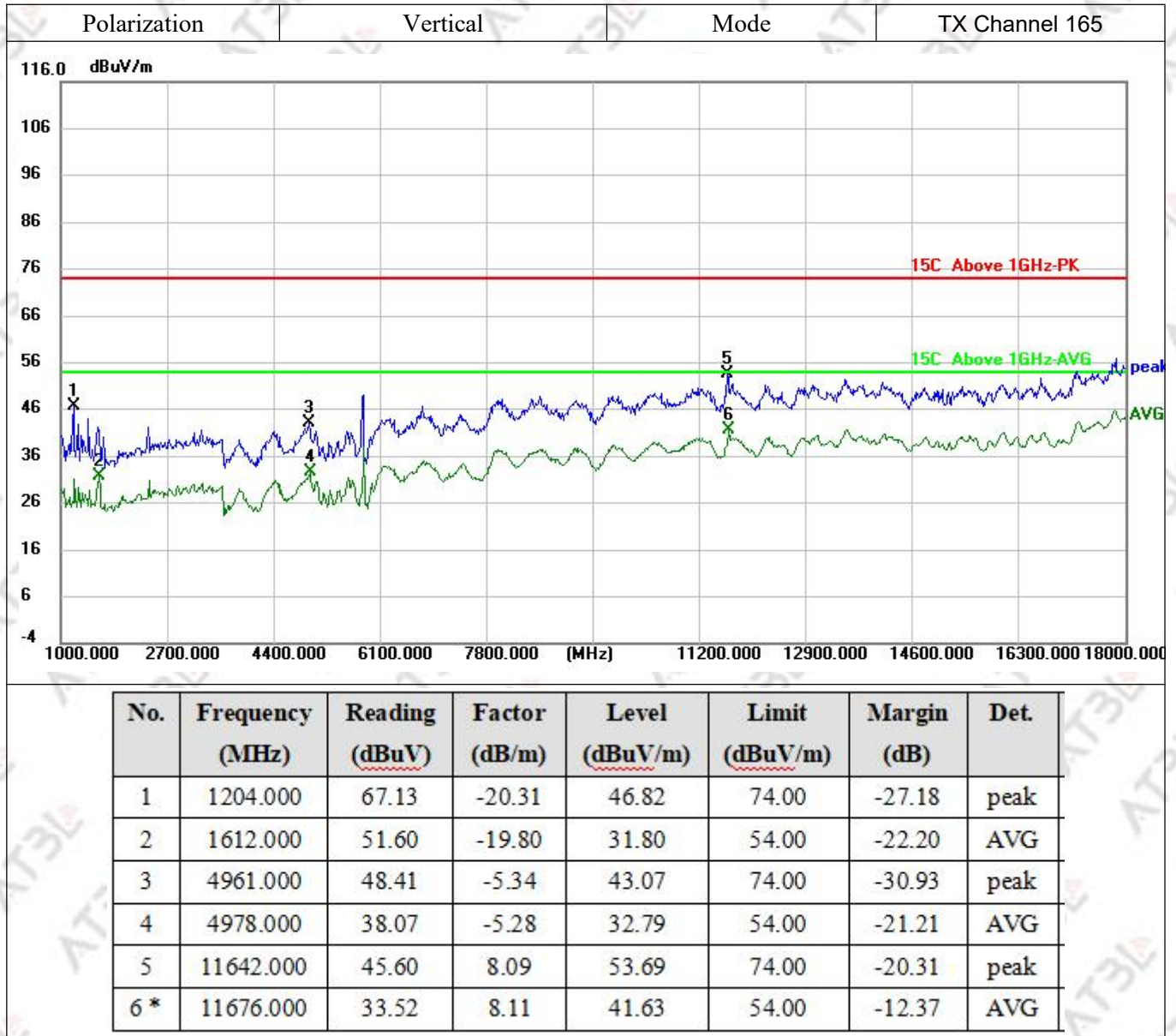






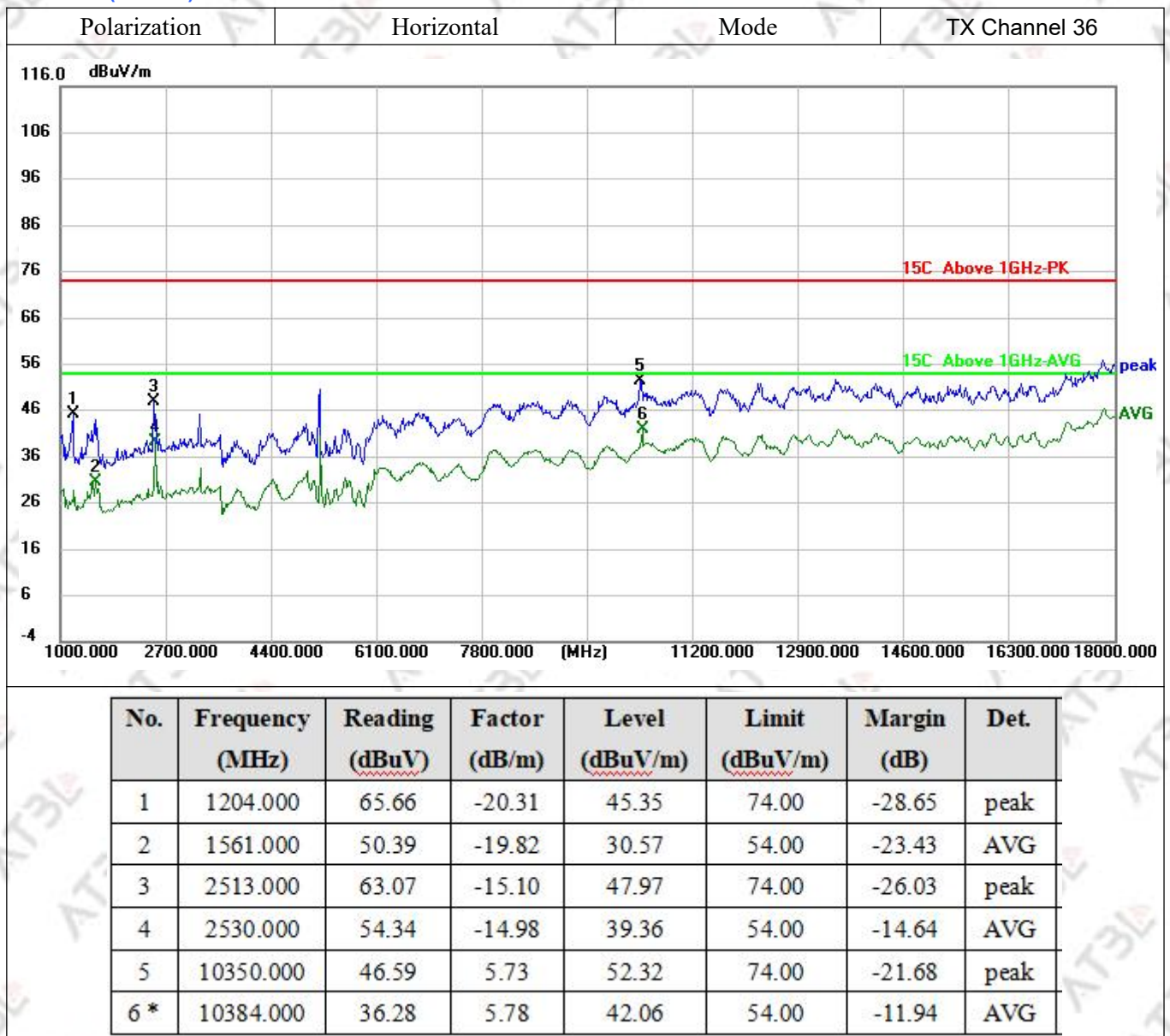


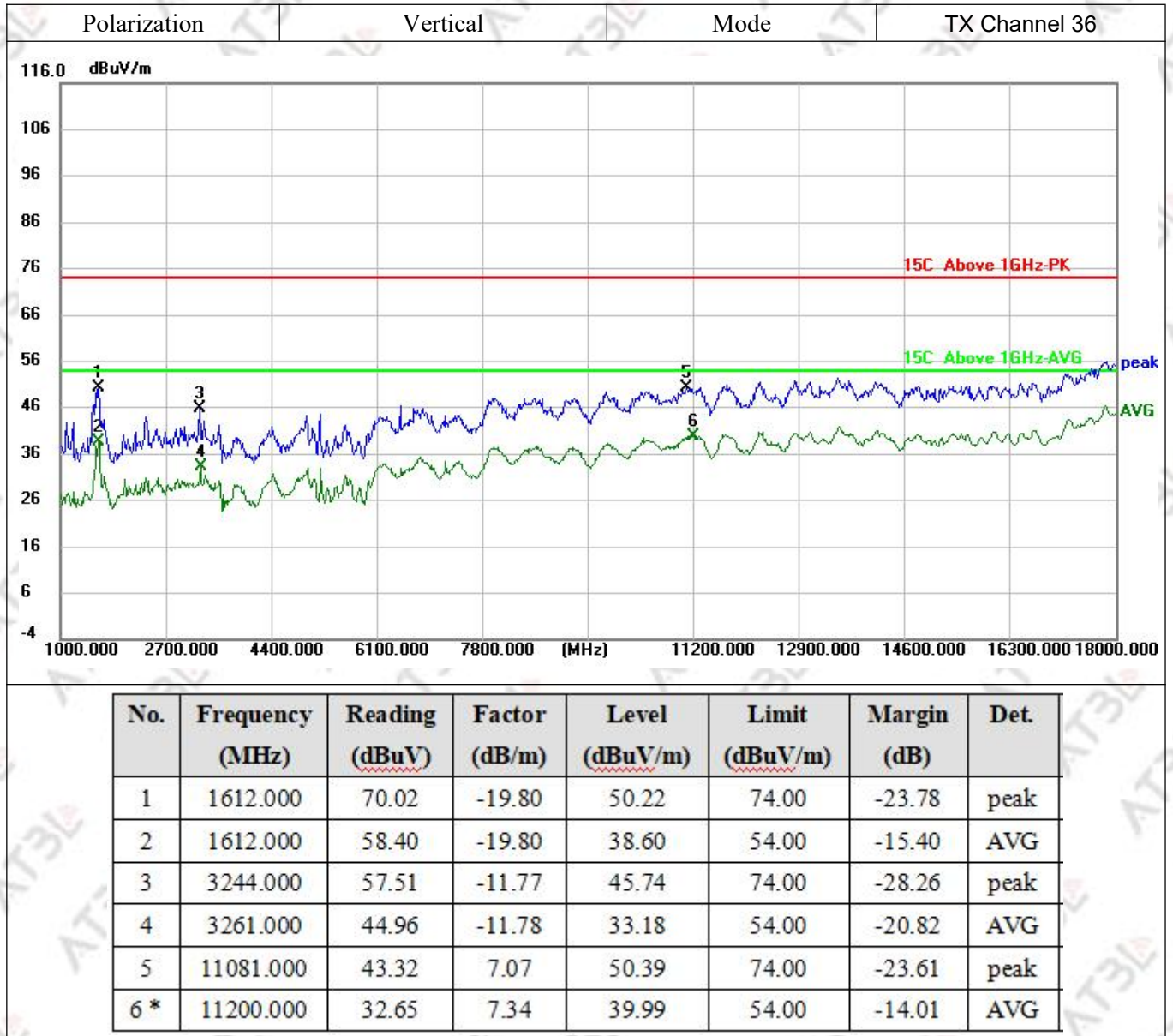




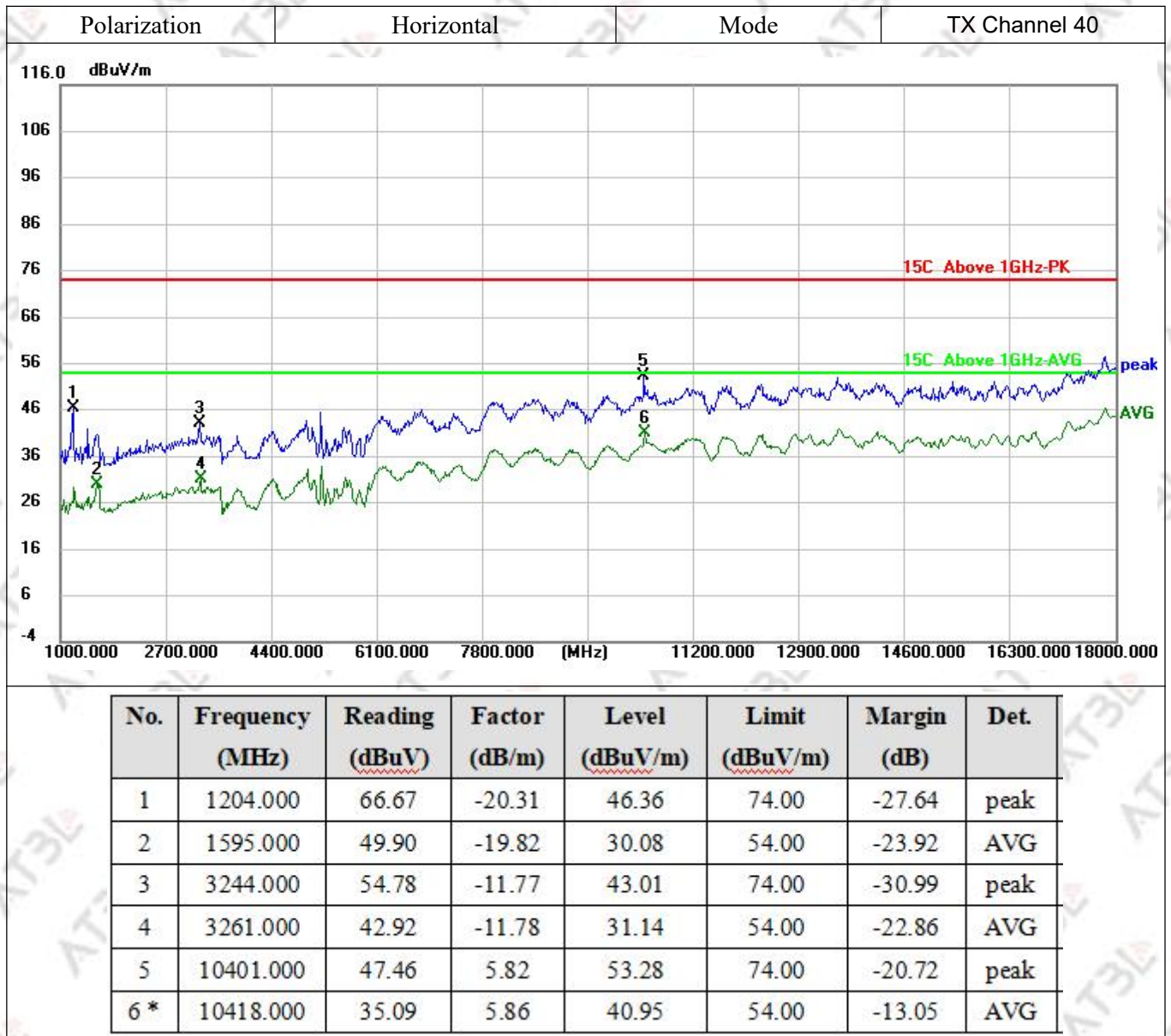
U-NII-1 (5180-5250MHz):

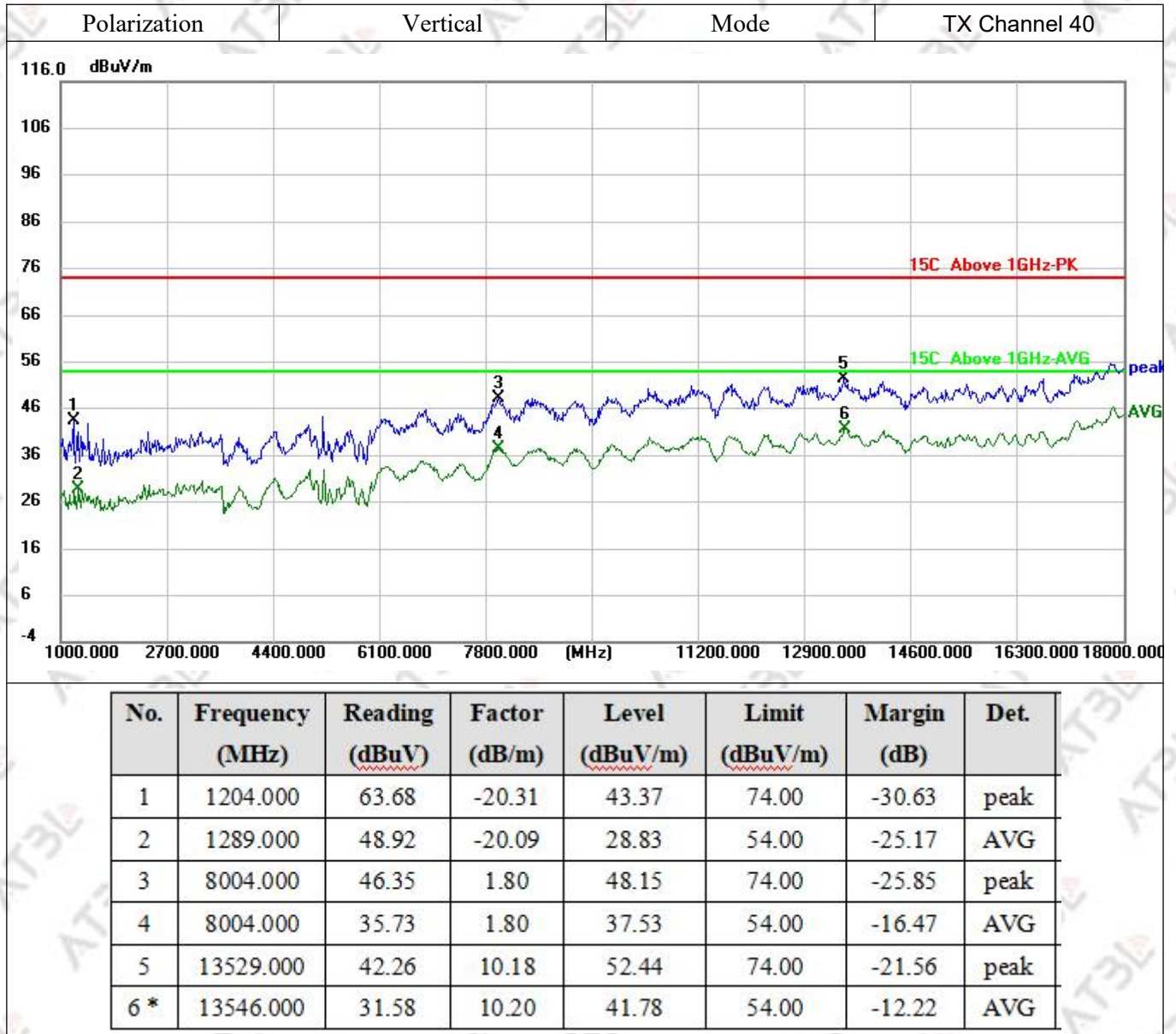
802.11n (20MHz)

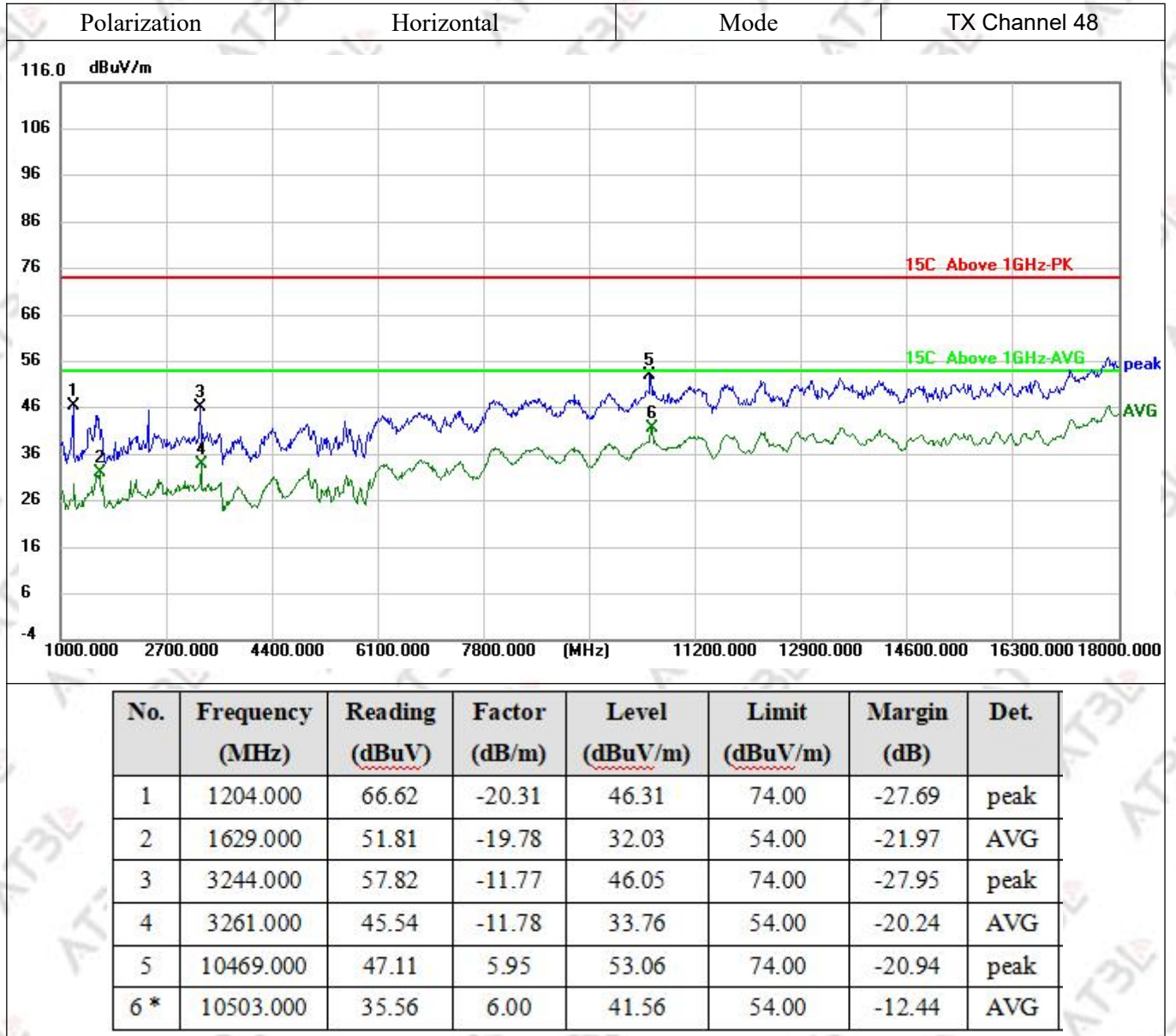




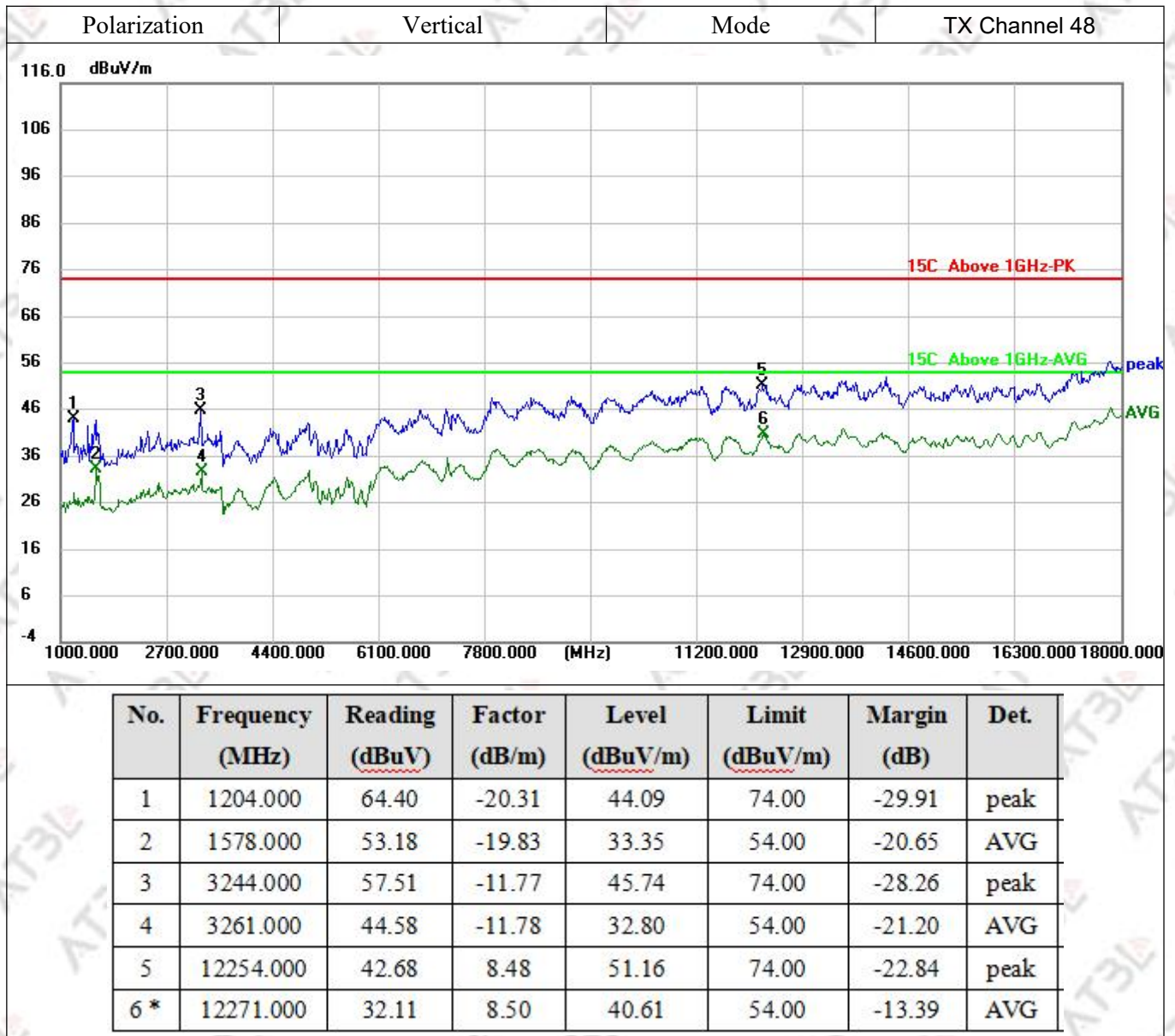






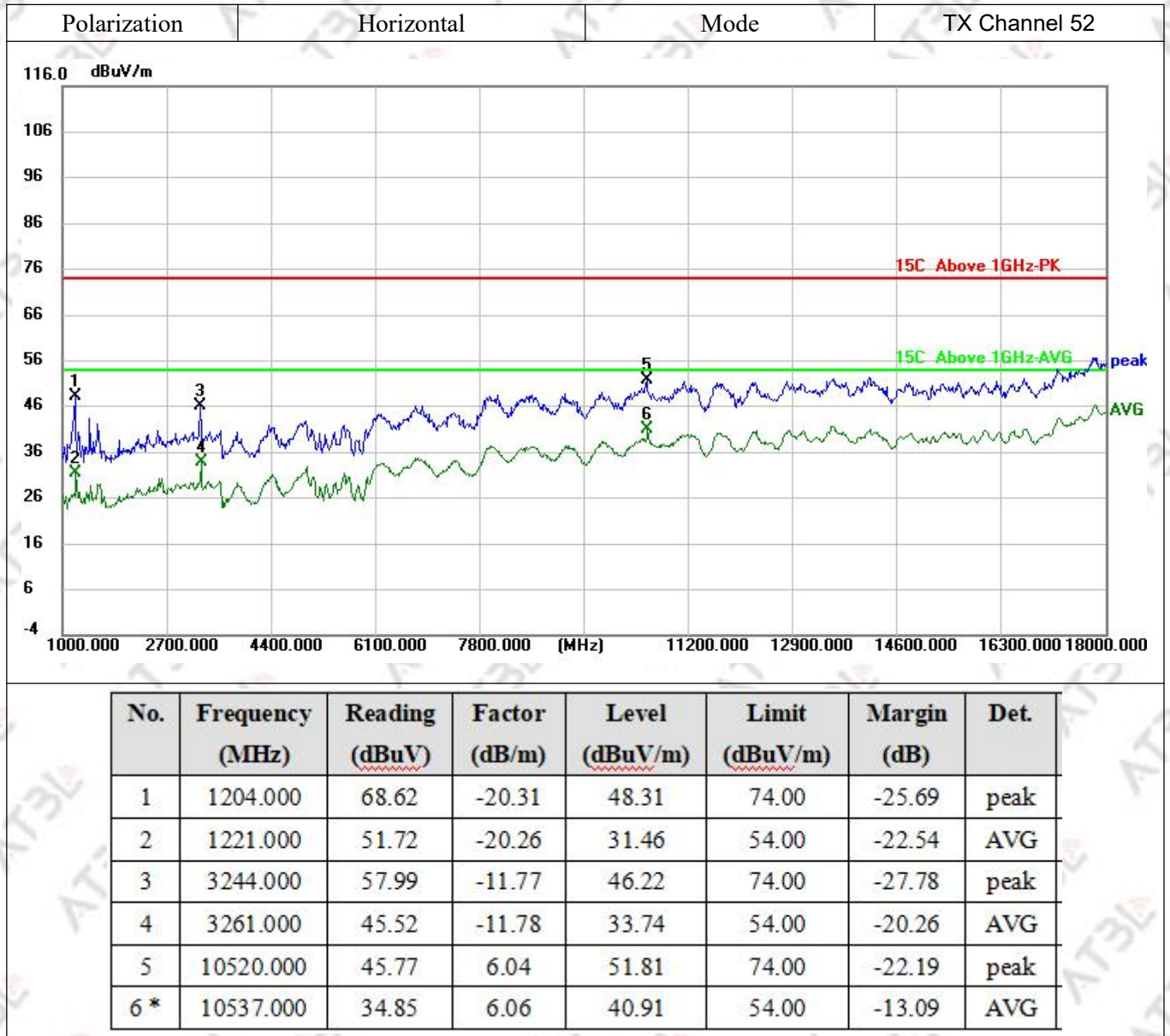


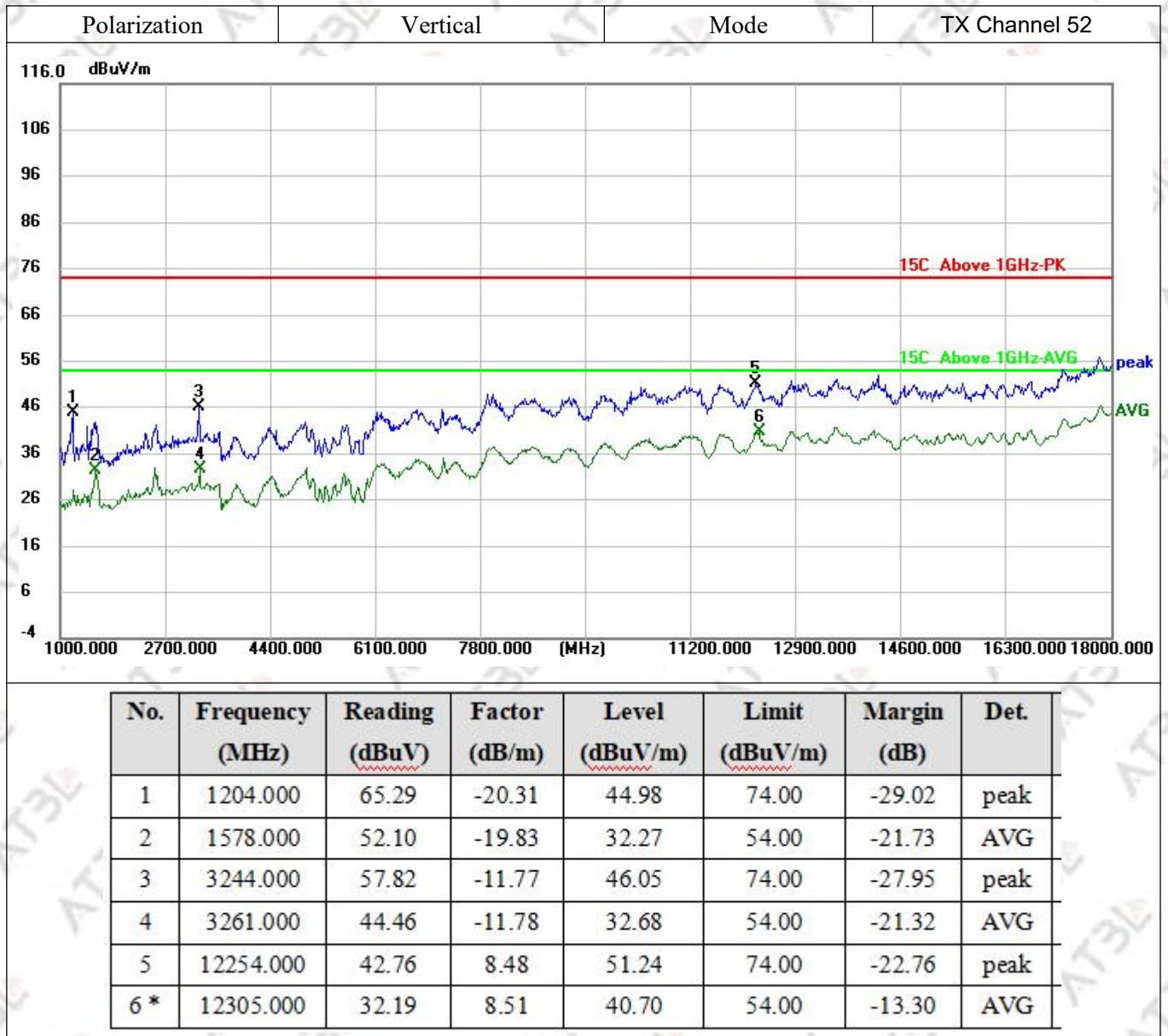




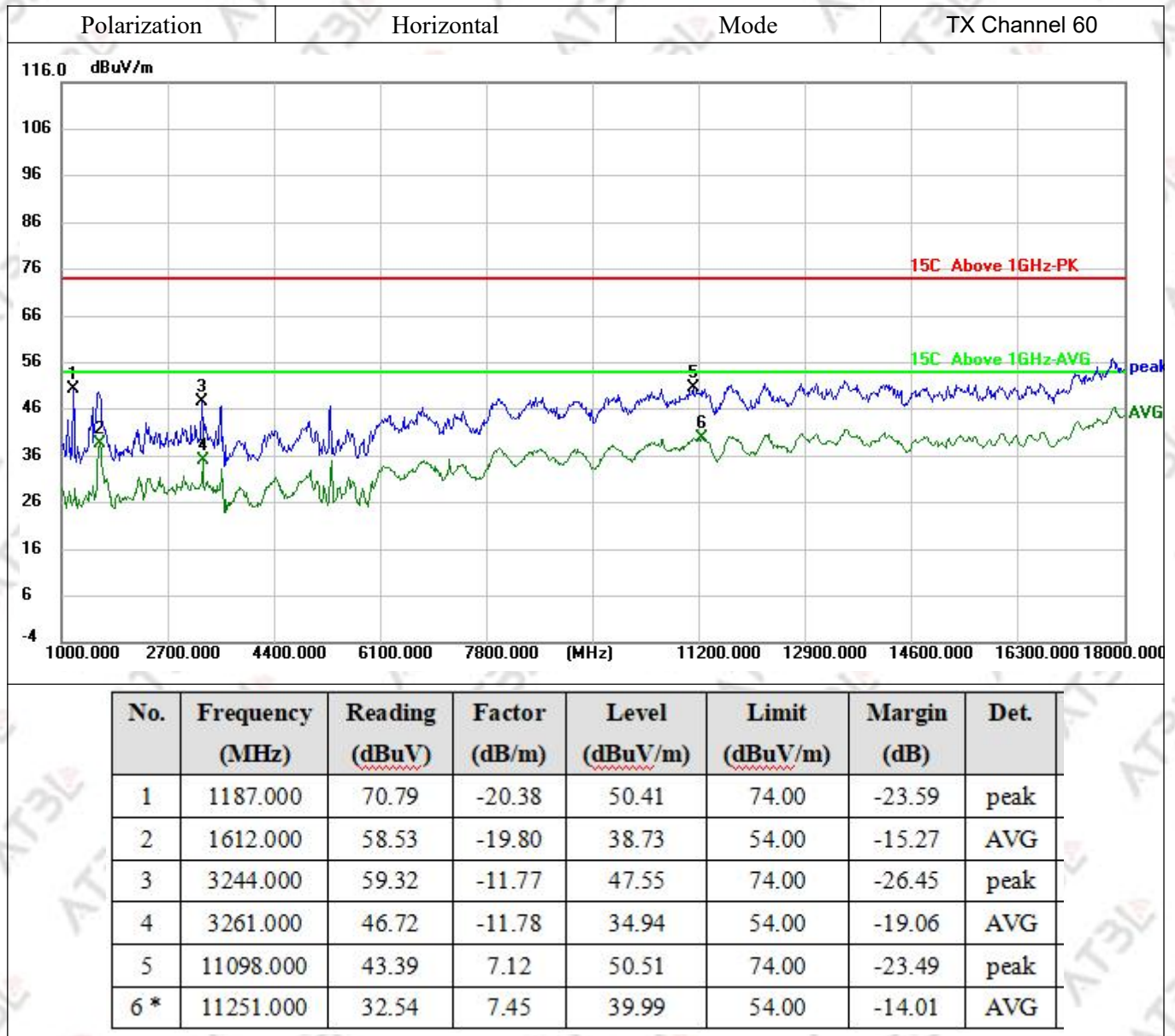
U-NII-2A (5250-5350MHz):

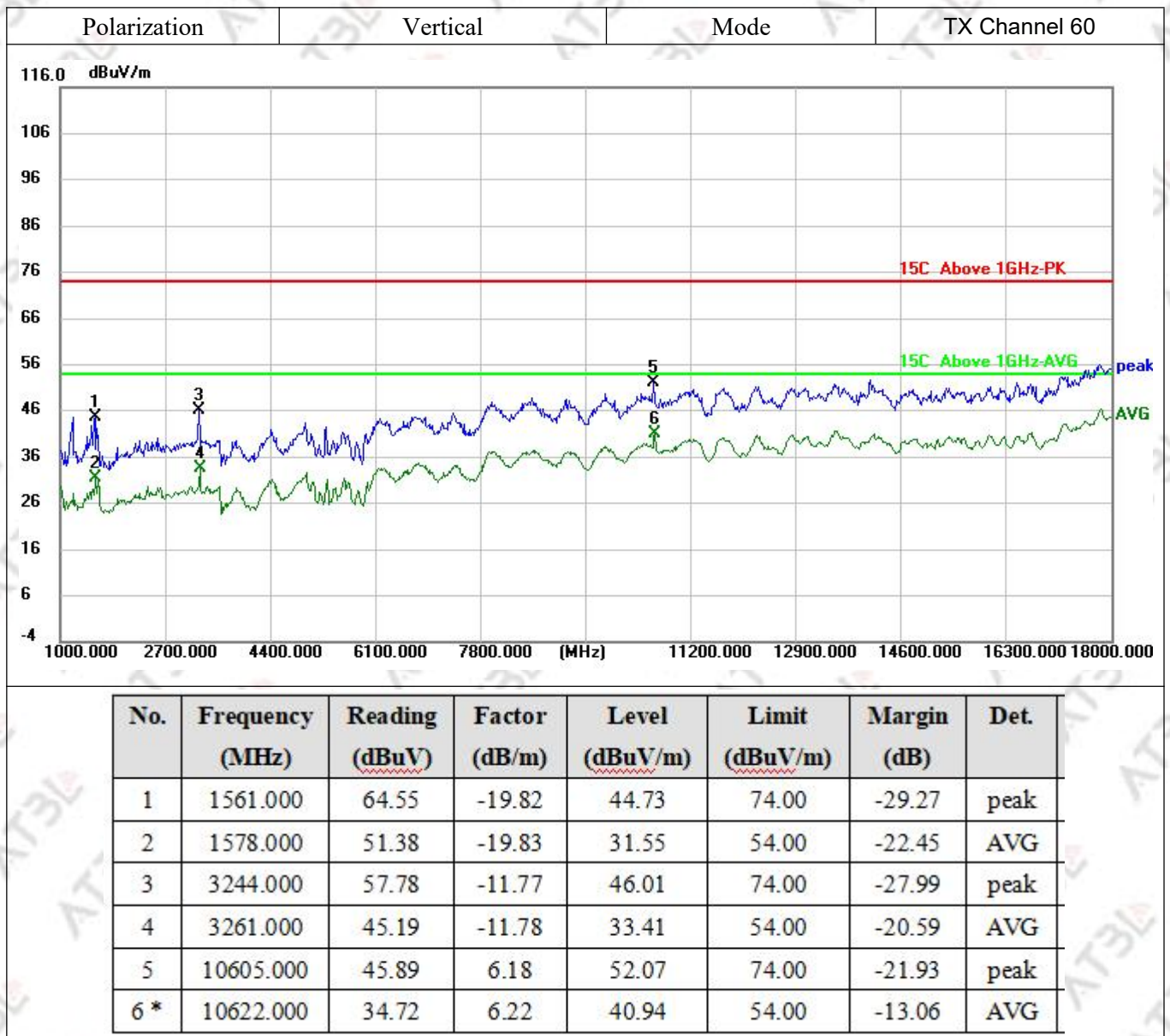
802.11n20

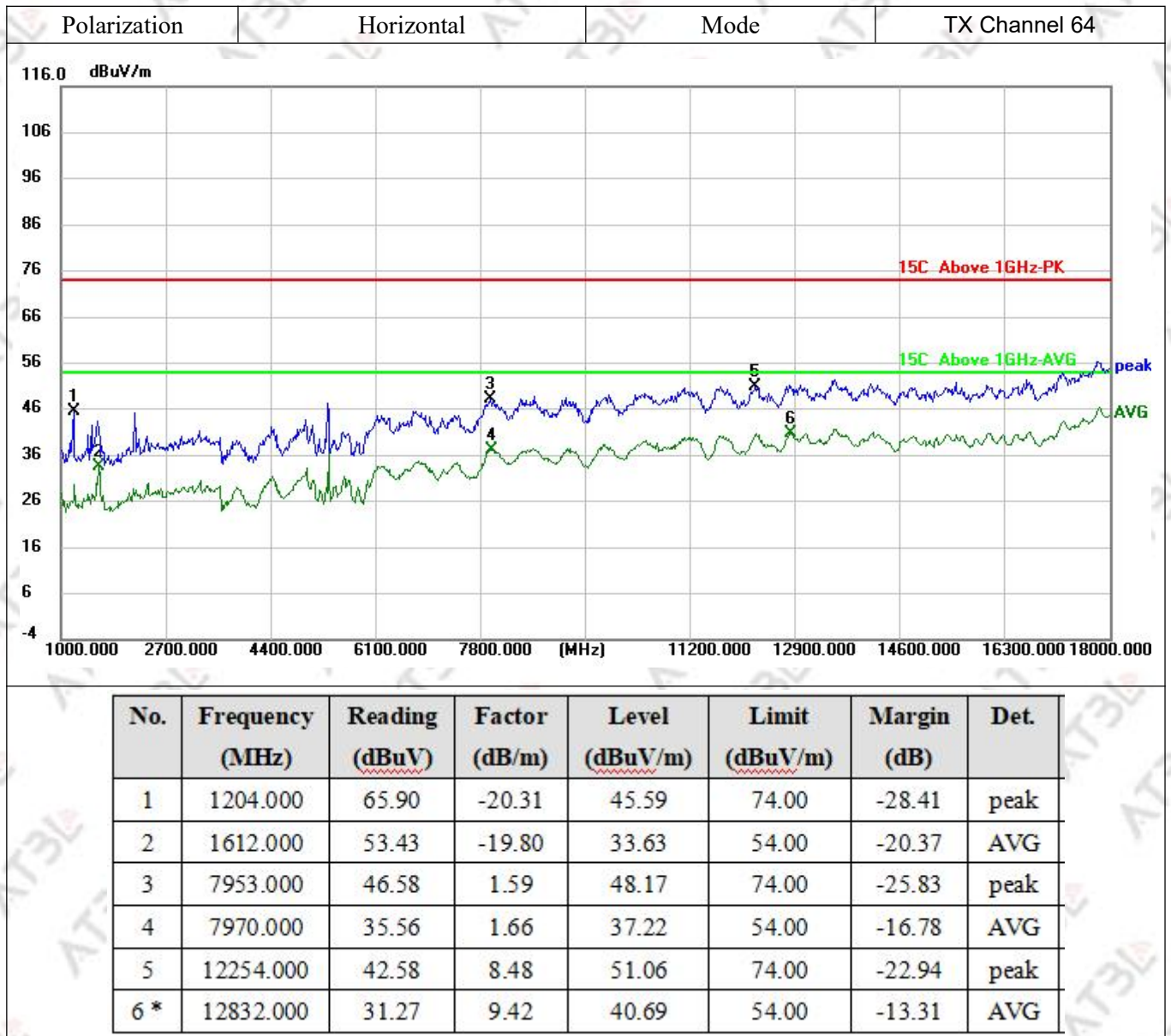




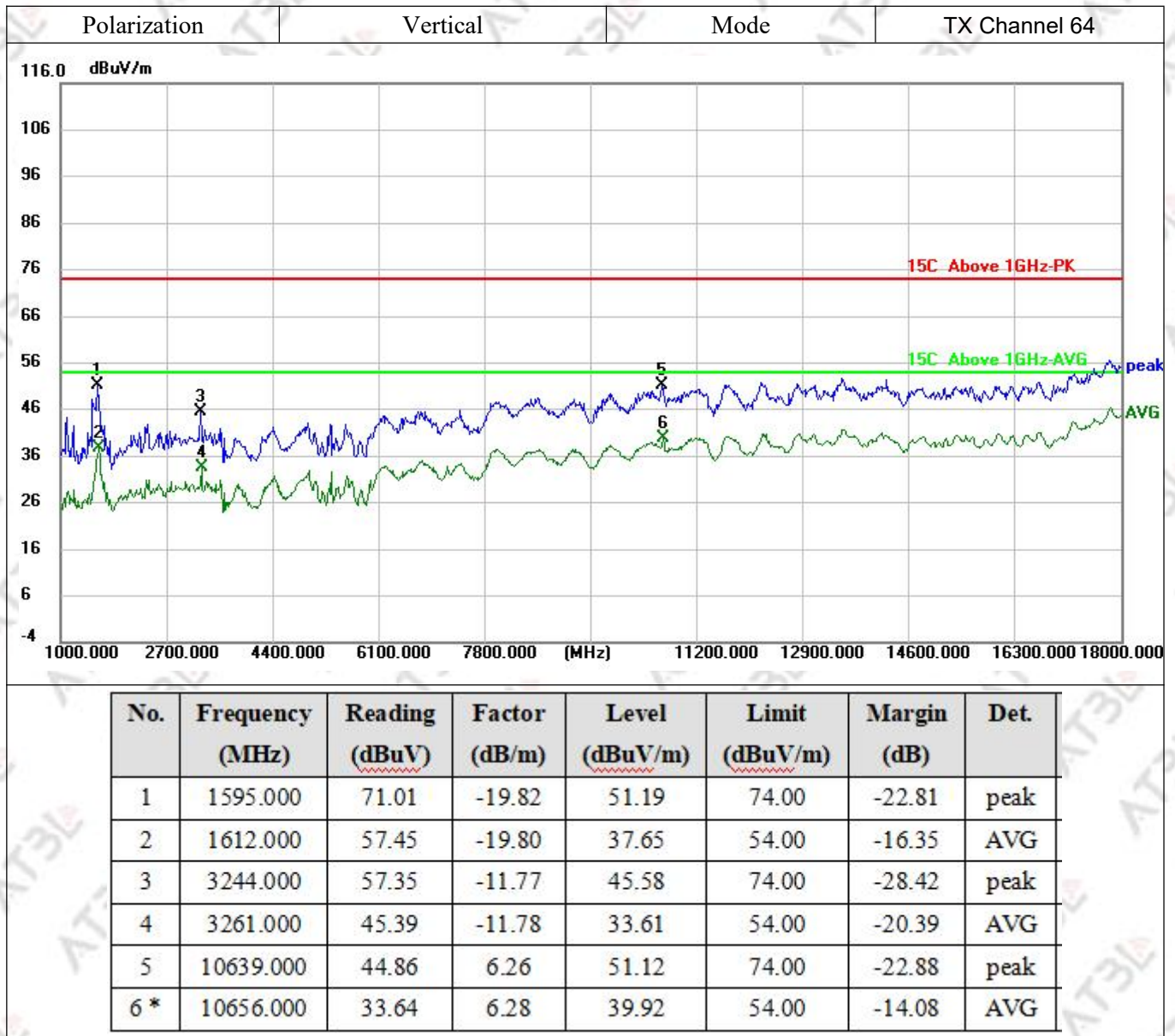






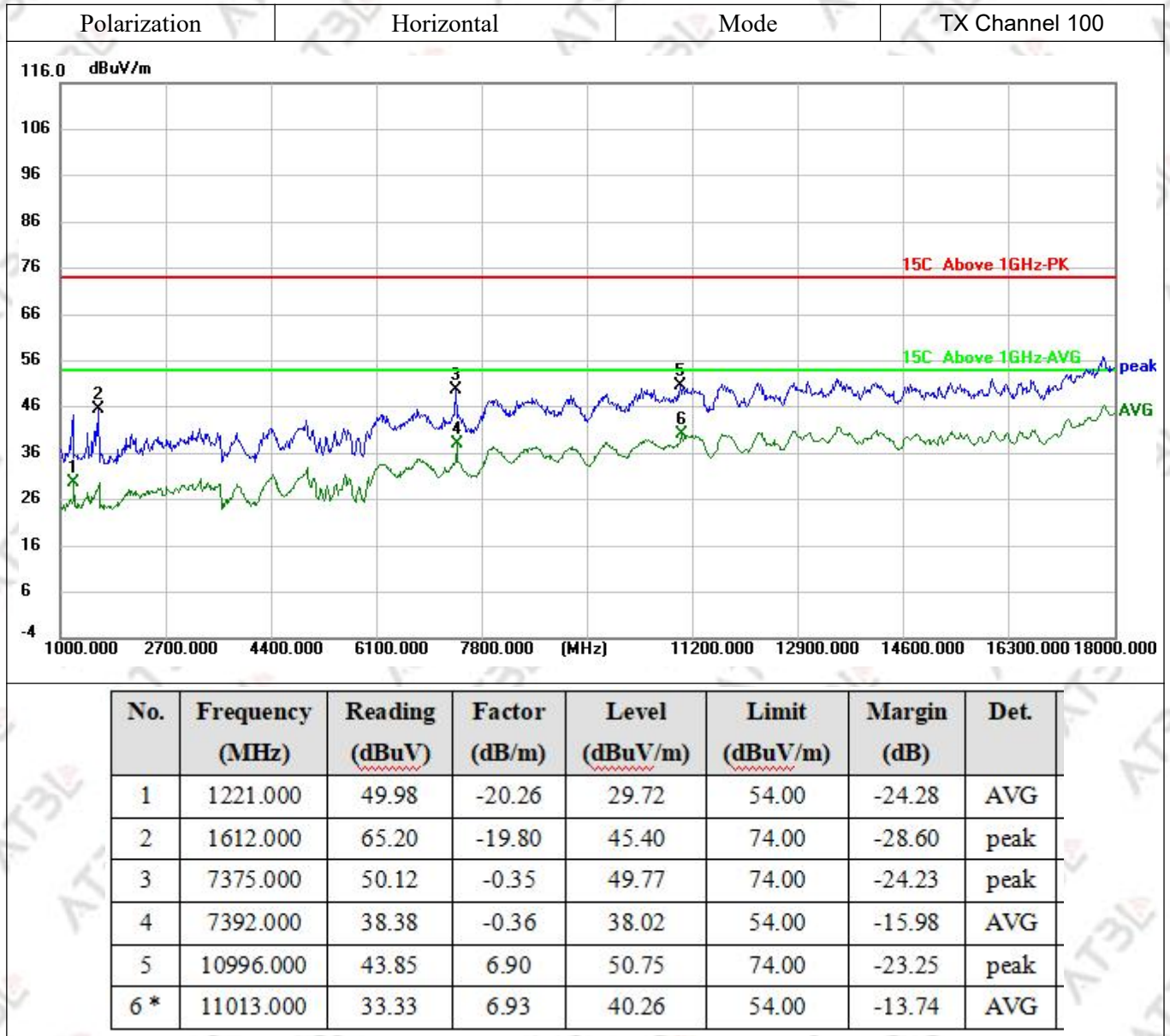


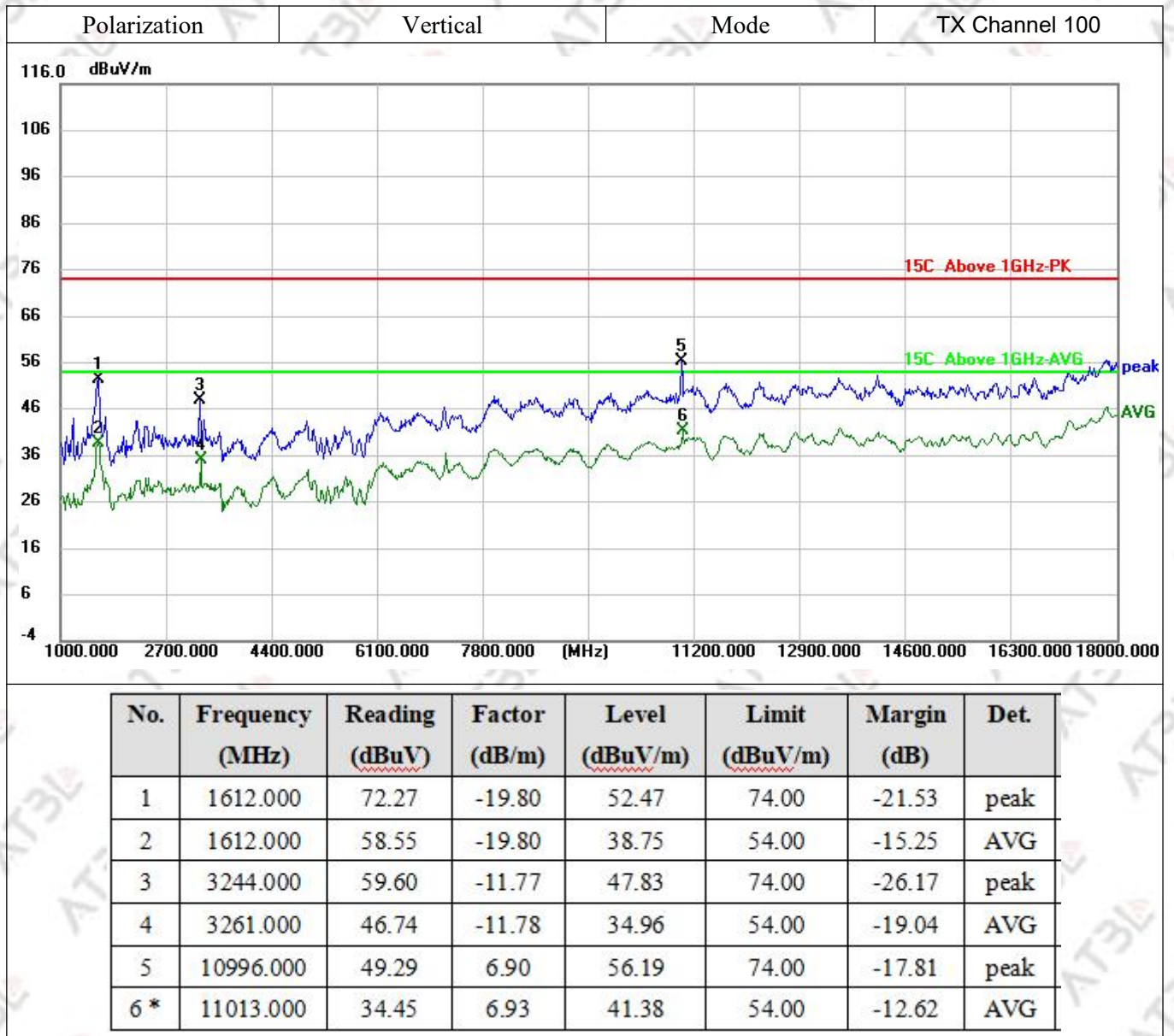




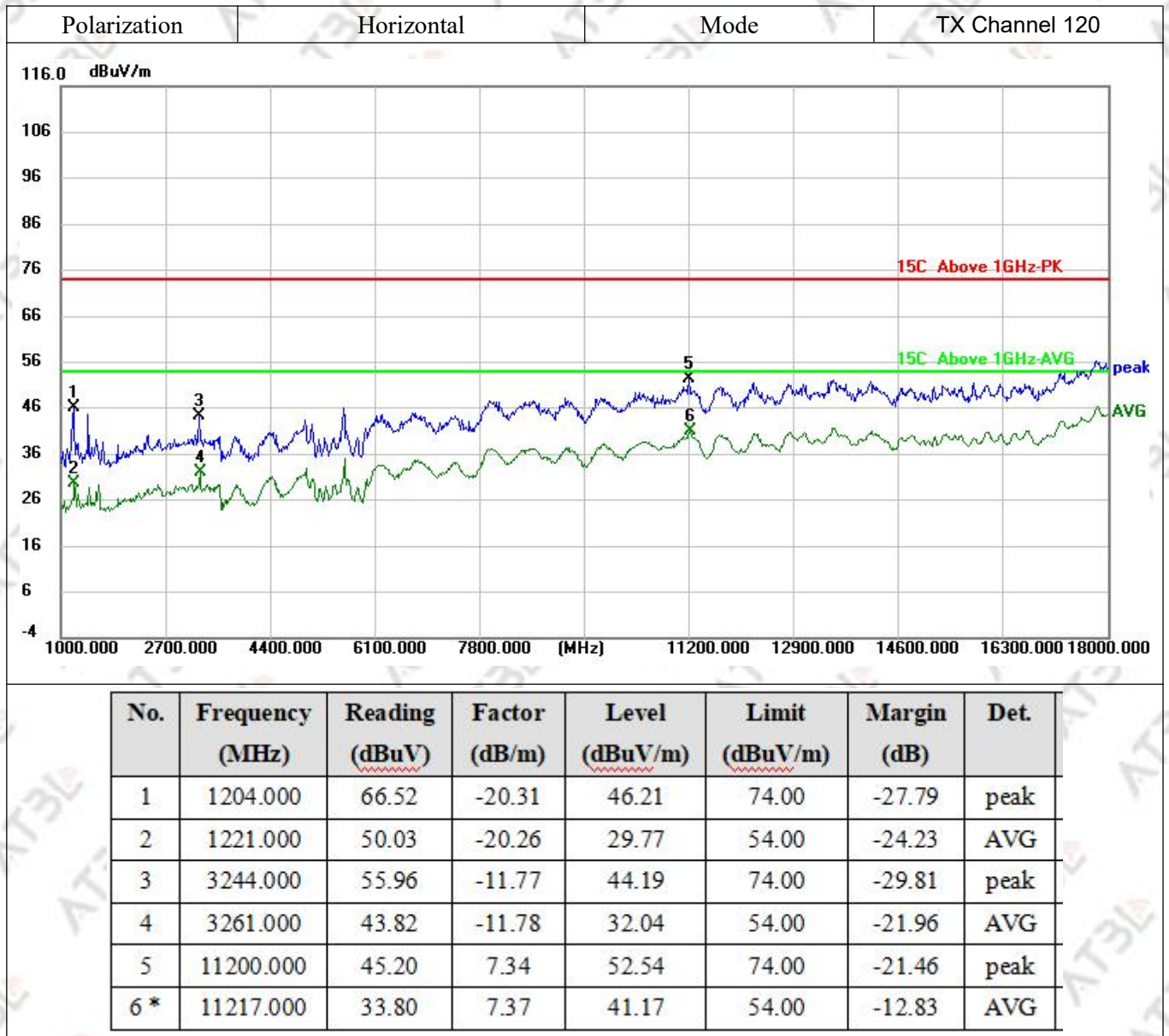
U-NII-2C (5470-5725MHz):

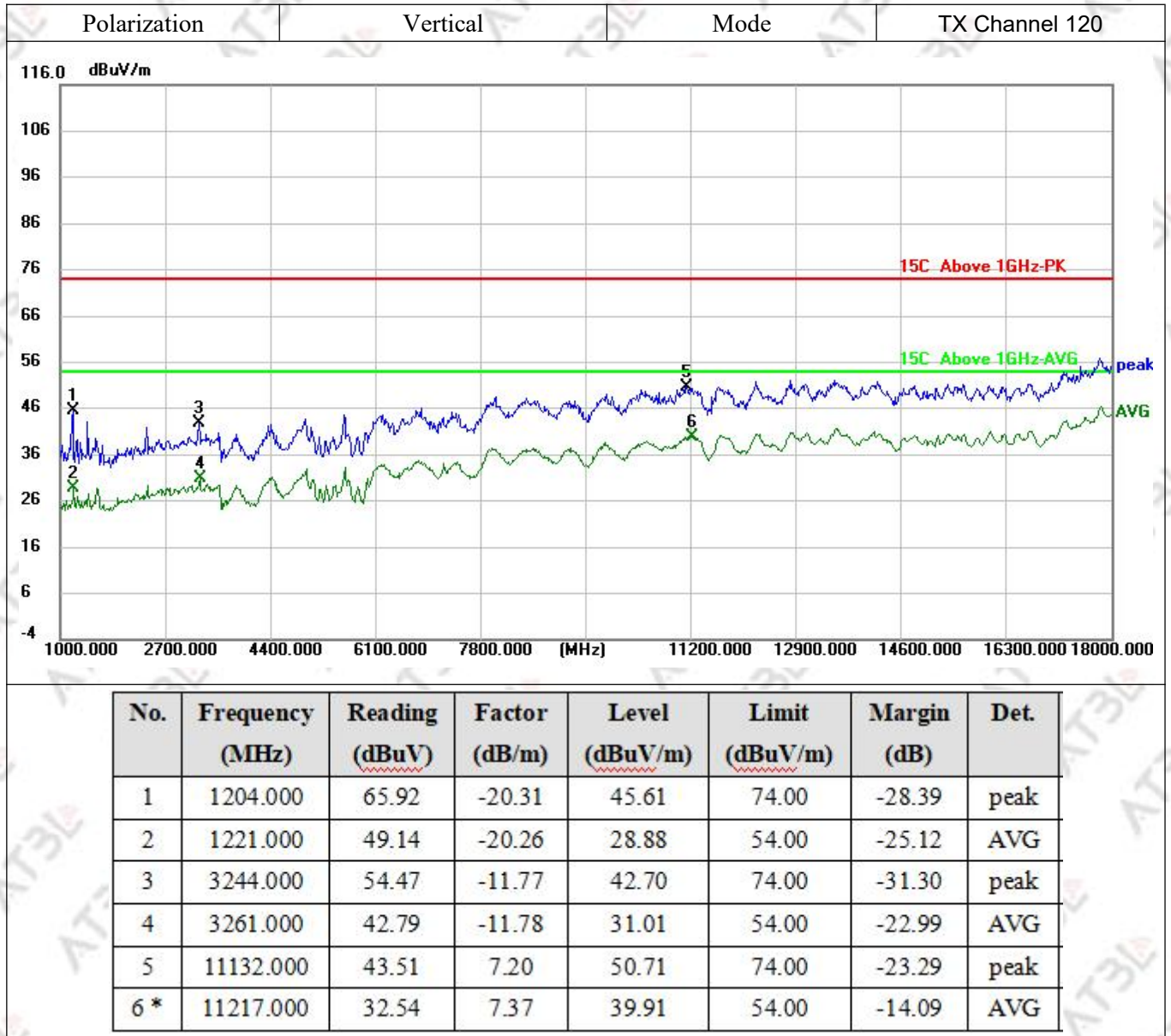
802.11n20

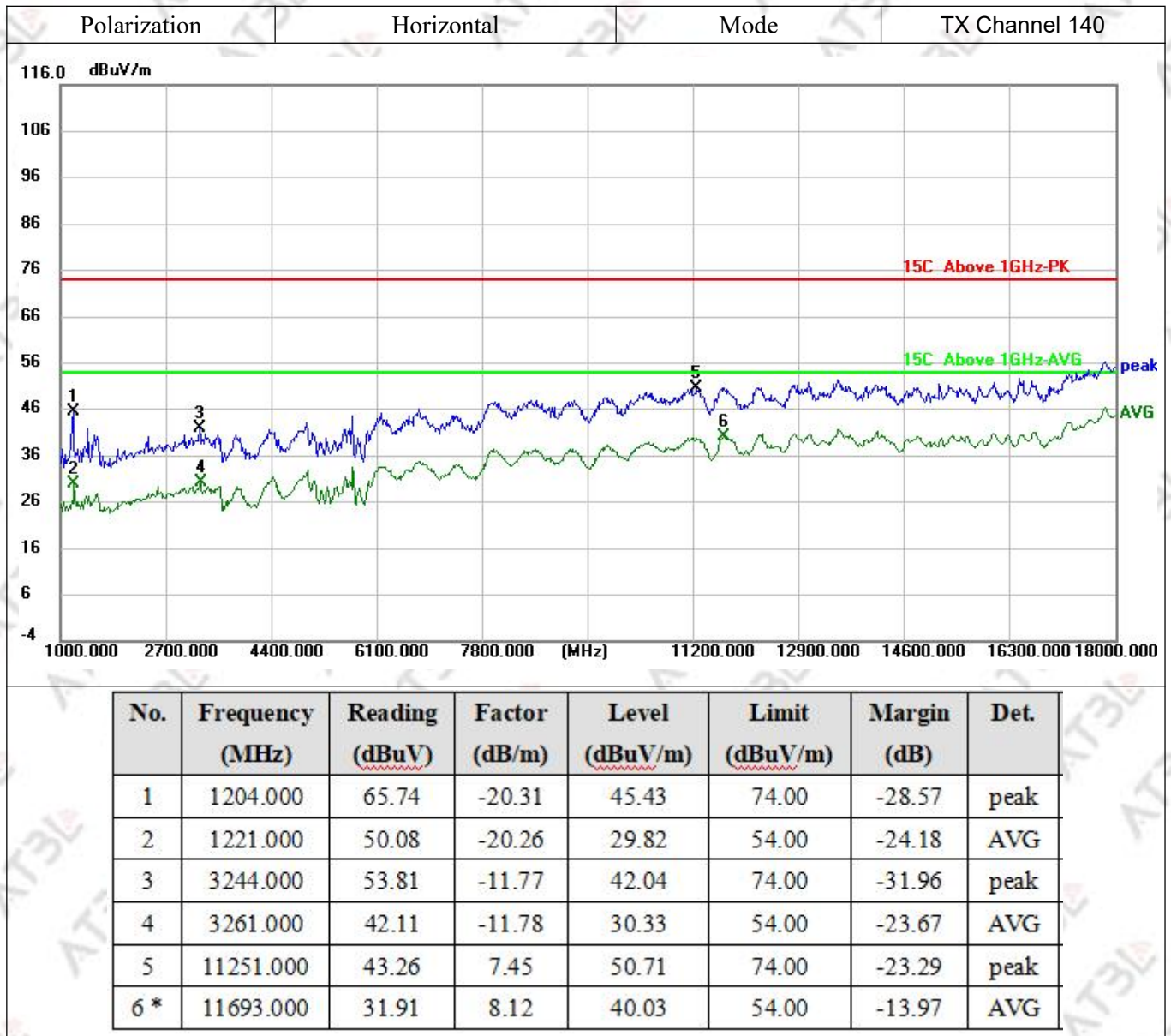




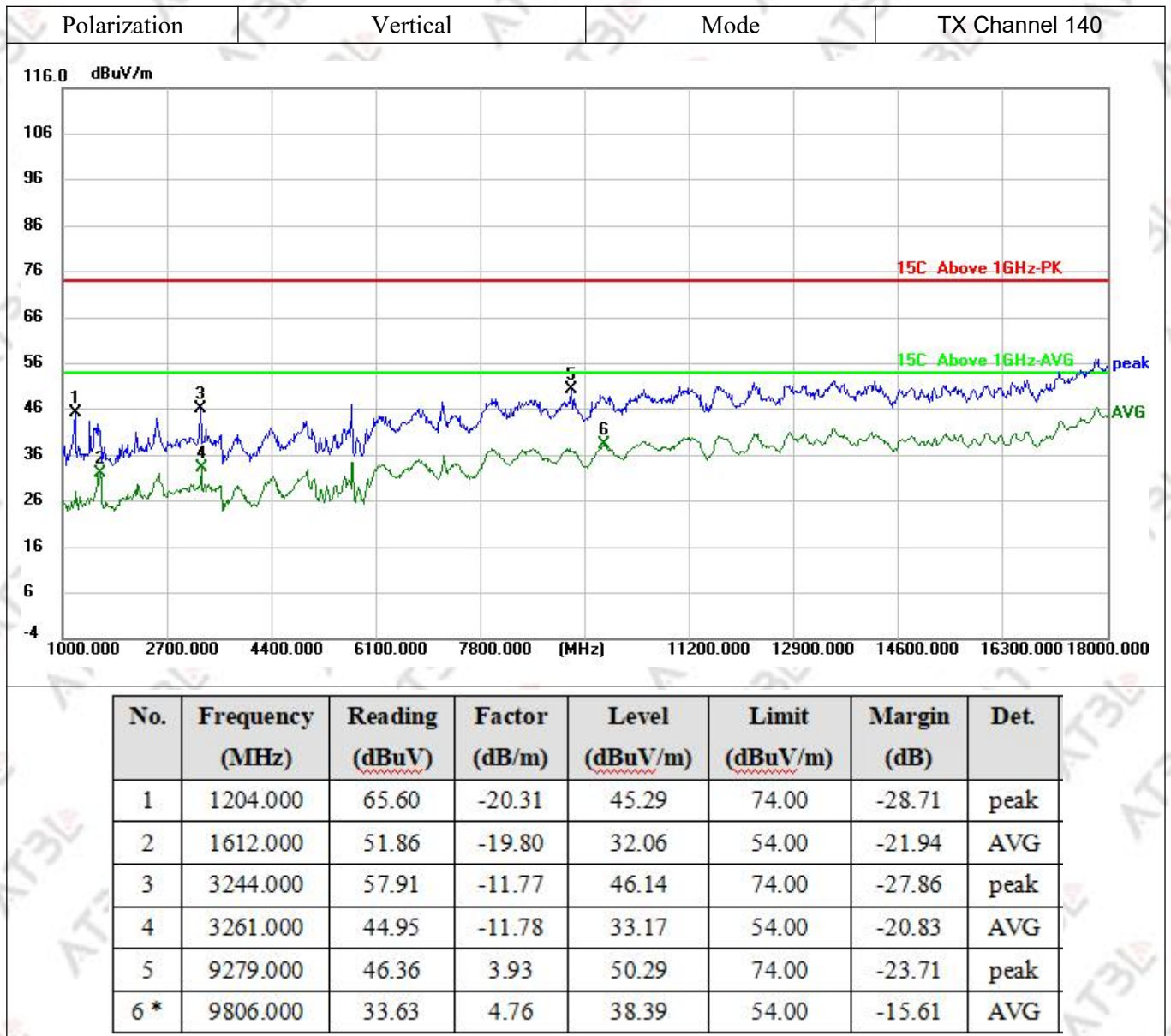






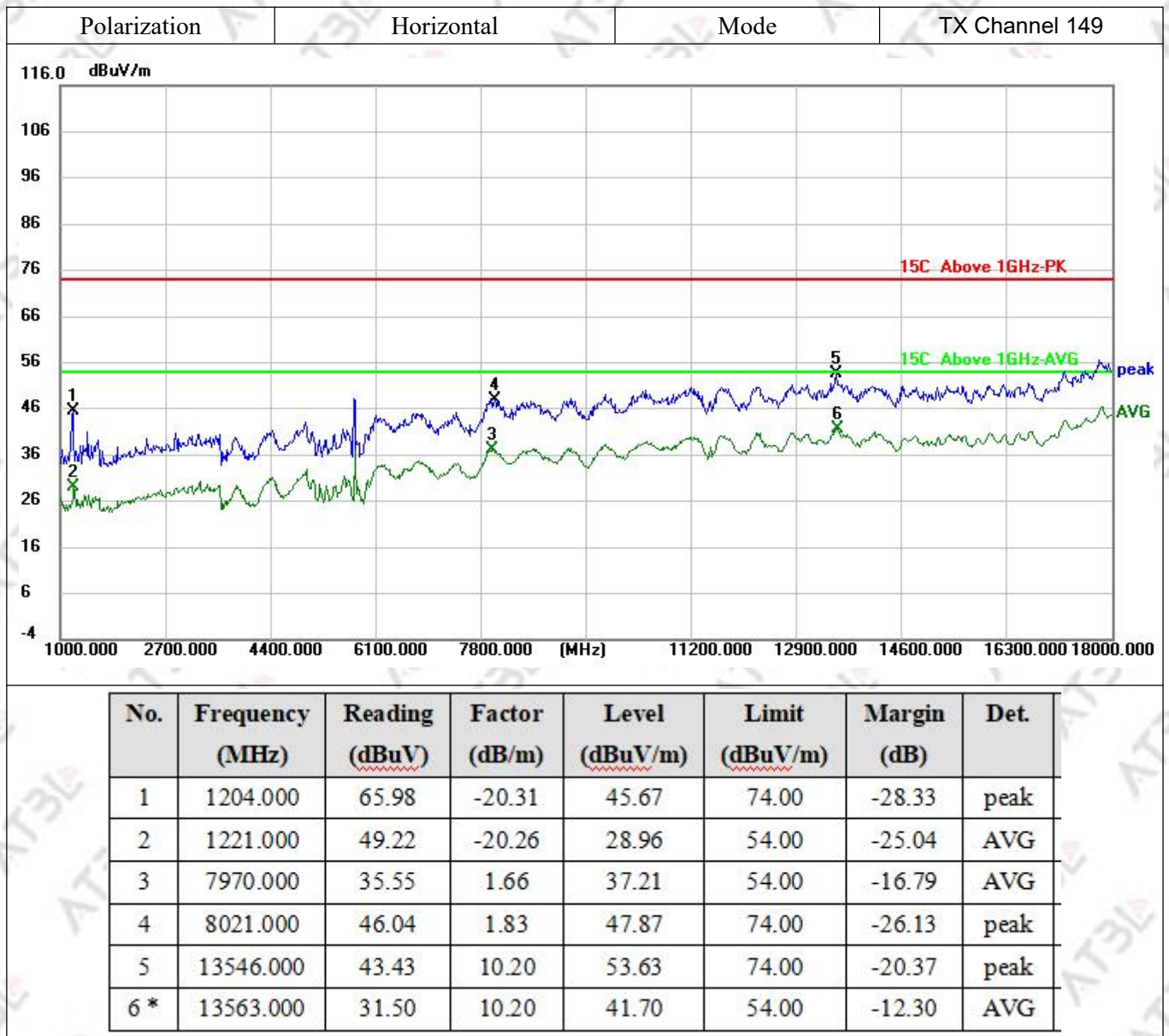


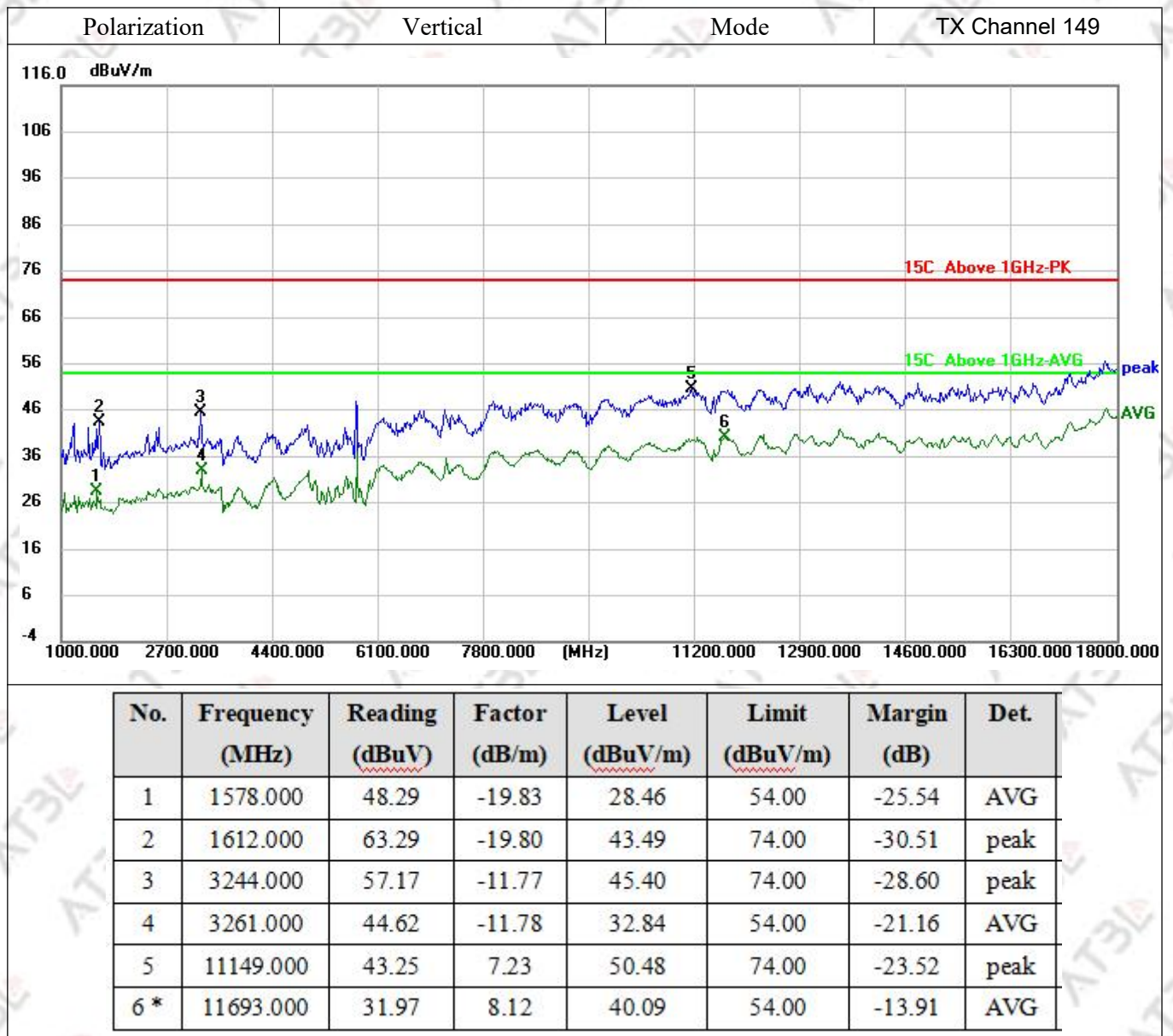




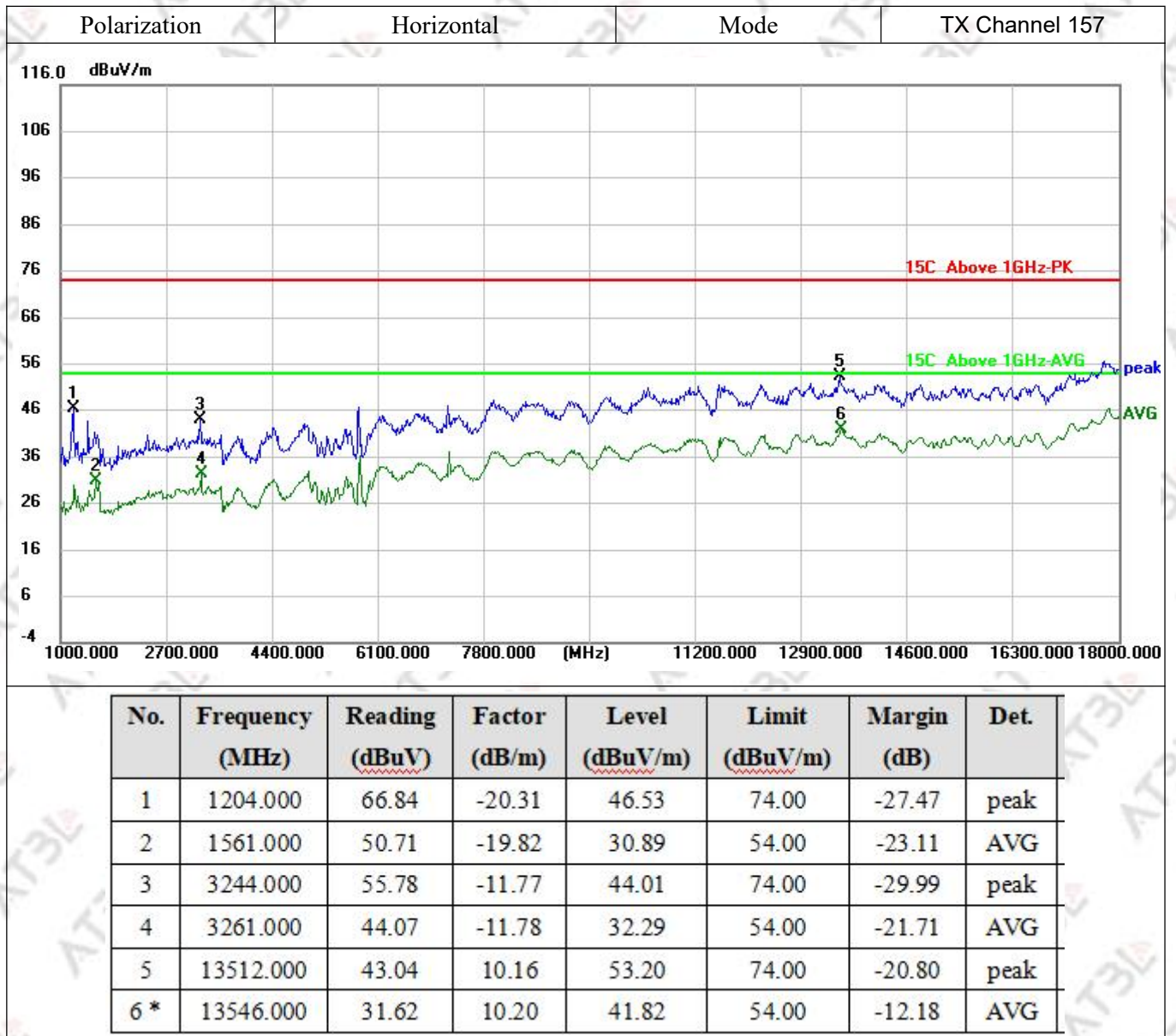
U-NII-3 (5725-5850MHz):

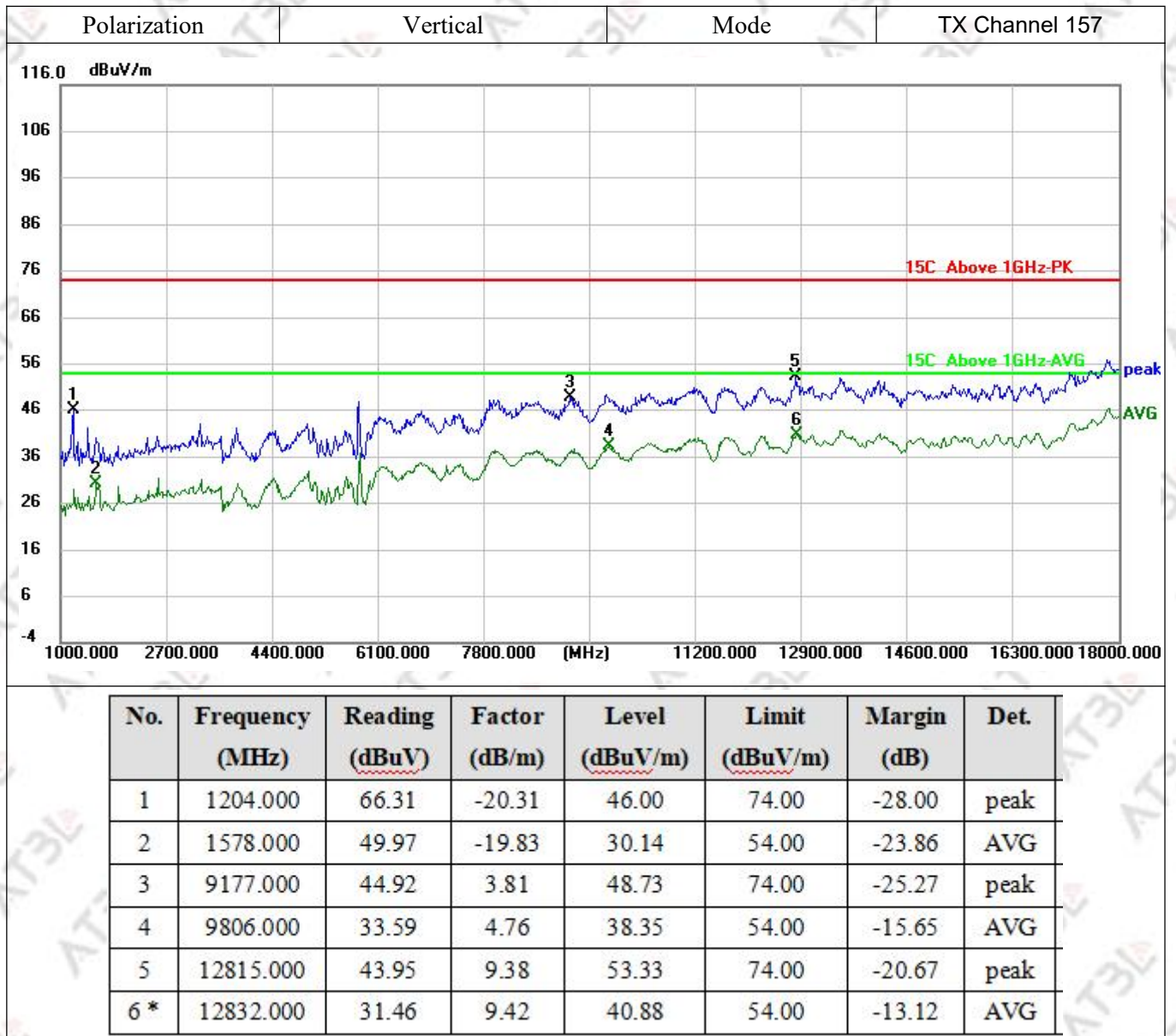
802.11n20

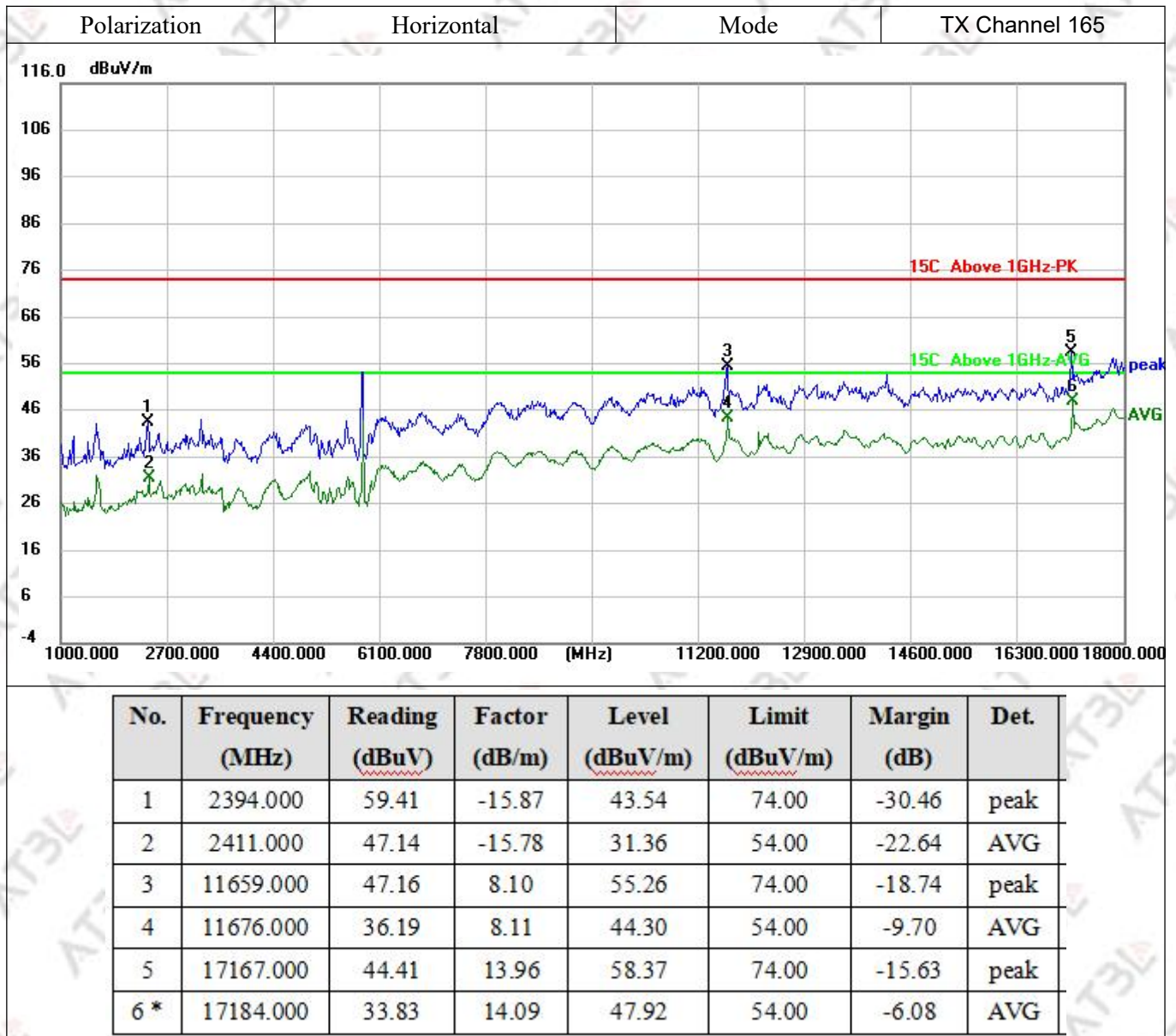




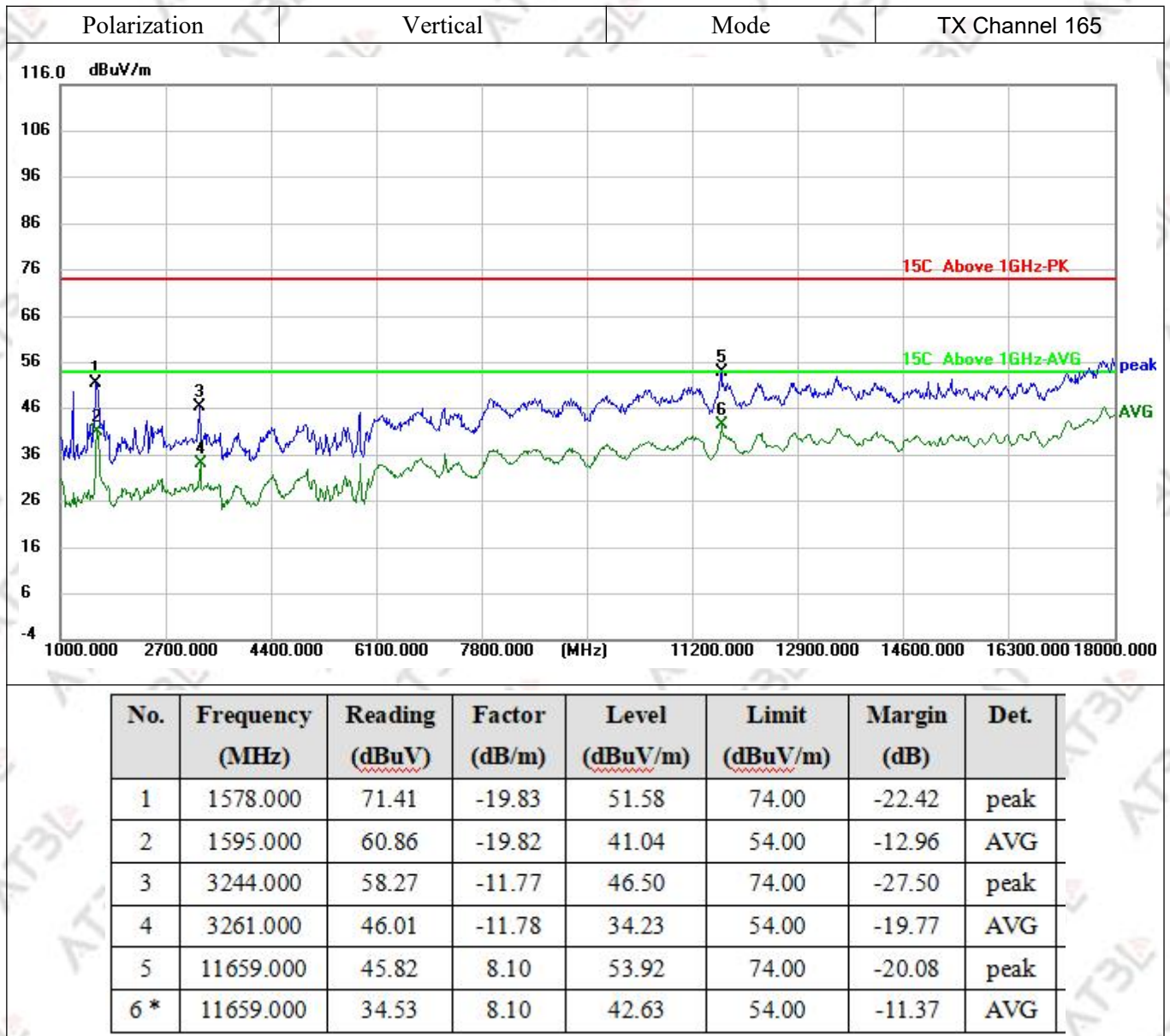






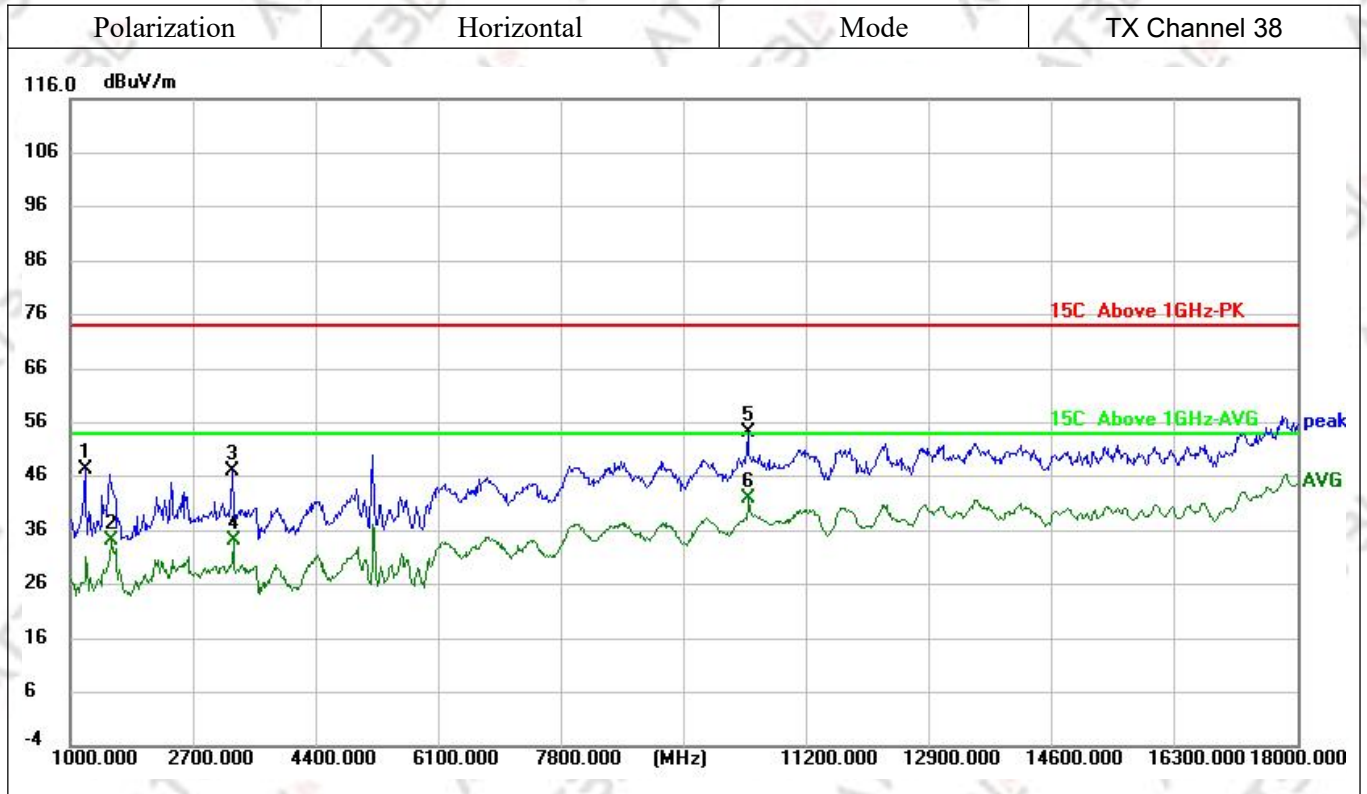




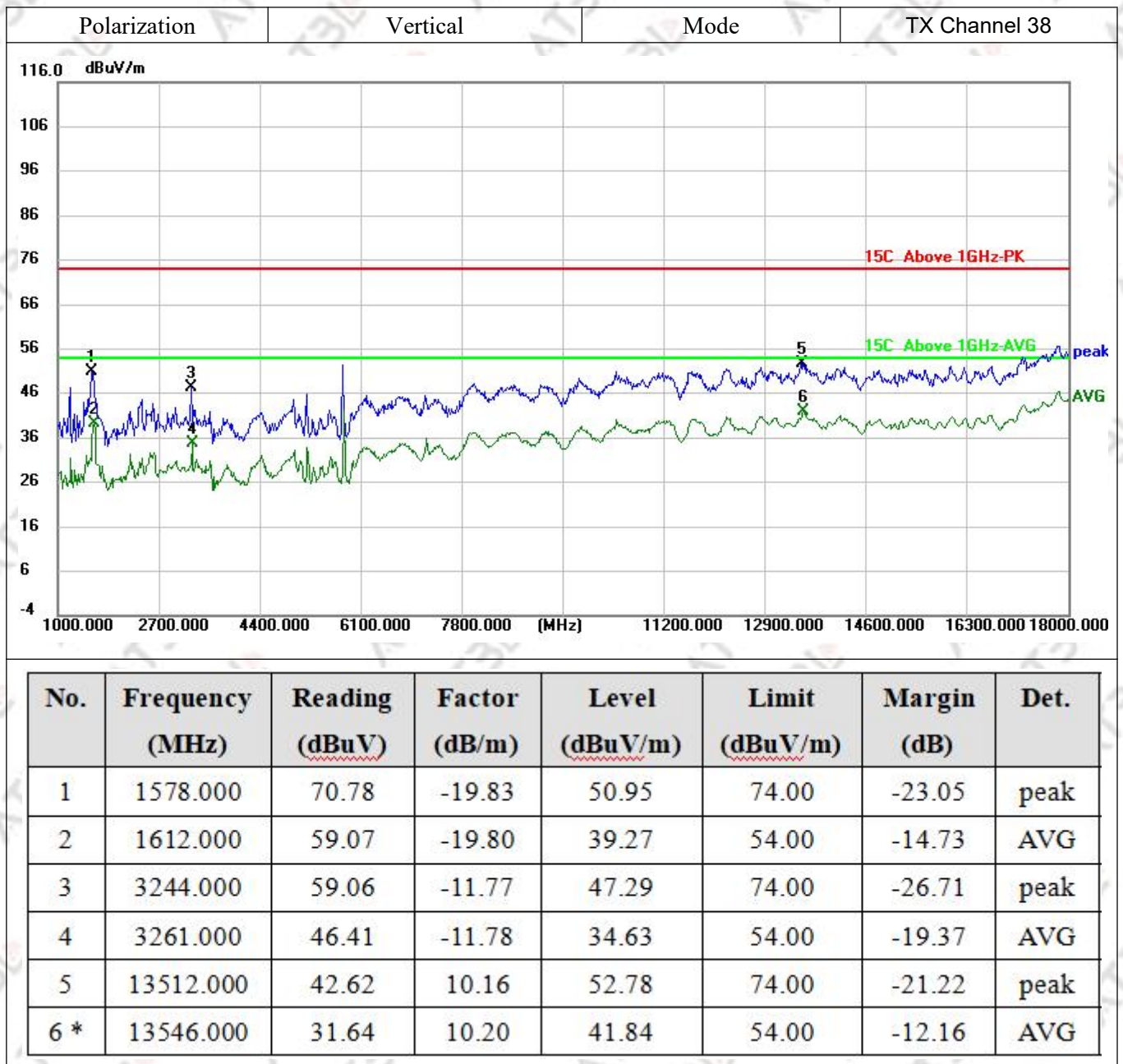


U-NII-1(5190-5230)

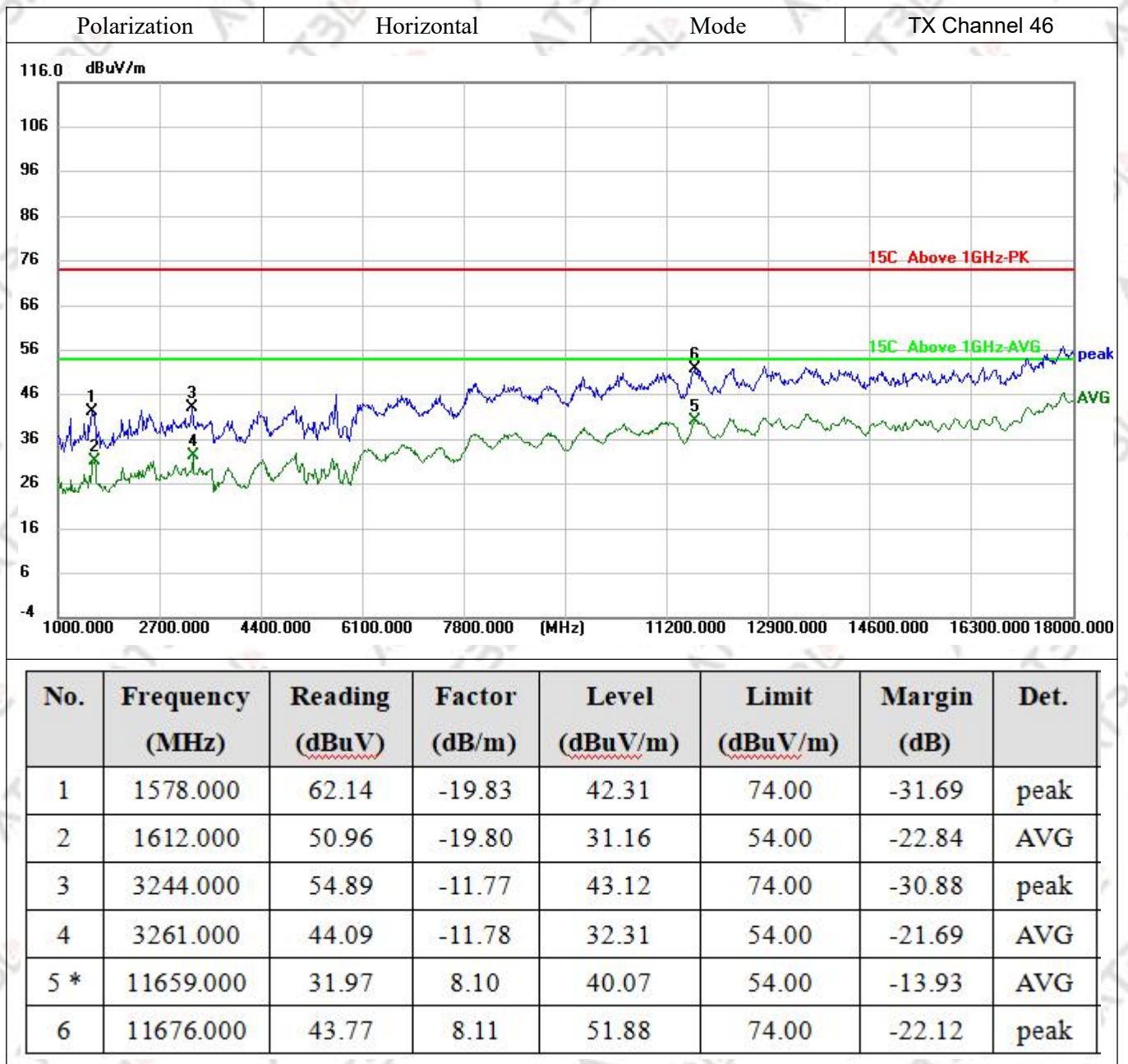
802.11n (40MHz)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|------|
| 1   | 1204.000           | 67.78             | -20.31           | 47.47             | 74.00             | -26.53         | peak |
| 2   | 1578.000           | 53.90             | -19.83           | 34.07             | 54.00             | -19.93         | AVG  |
| 3   | 3244.000           | 58.77             | -11.77           | 47.00             | 74.00             | -27.00         | peak |
| 4   | 3261.000           | 46.04             | -11.78           | 34.26             | 54.00             | -19.74         | AVG  |
| 5   | 10384.000          | 48.50             | 5.78             | 54.28             | 74.00             | -19.72         | peak |
| 6 * | 10401.000          | 36.09             | 5.82             | 41.91             | 54.00             | -12.09         | AVG  |



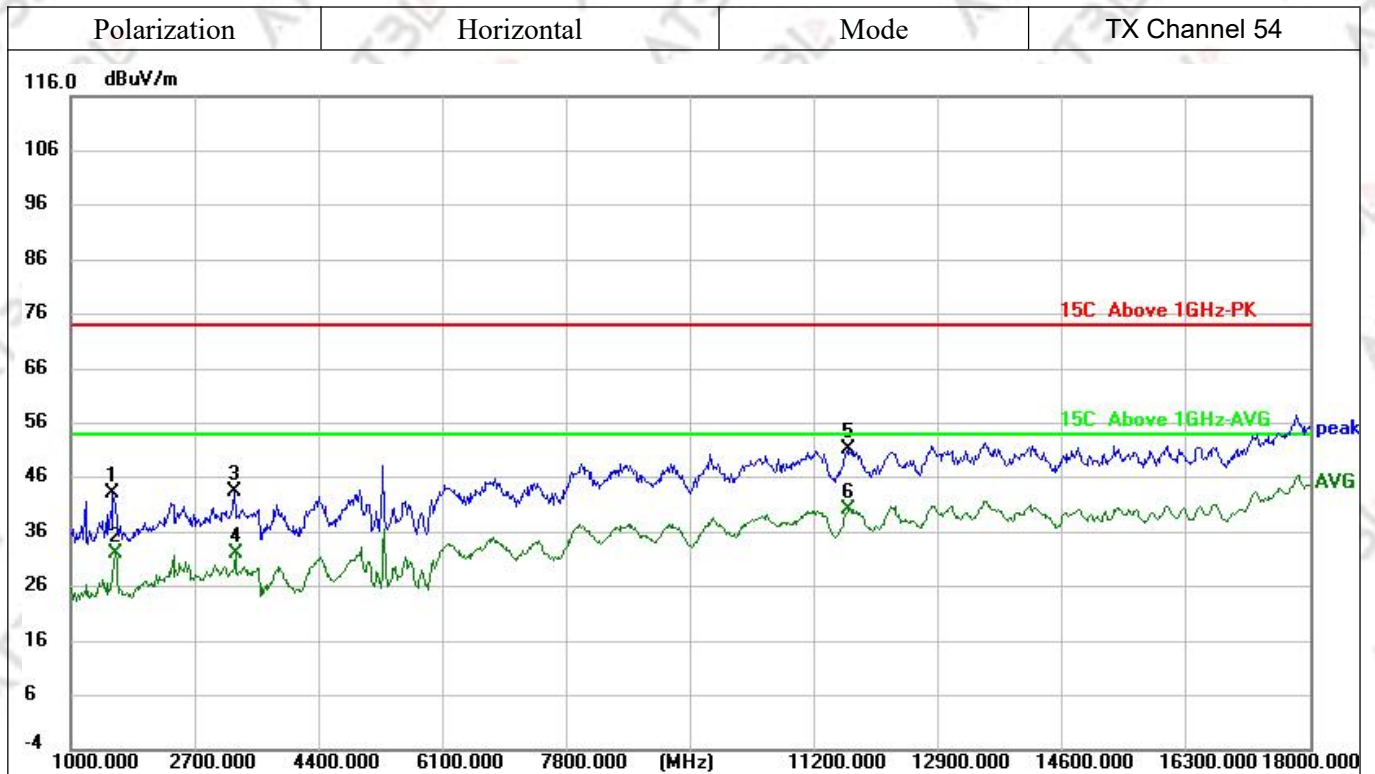






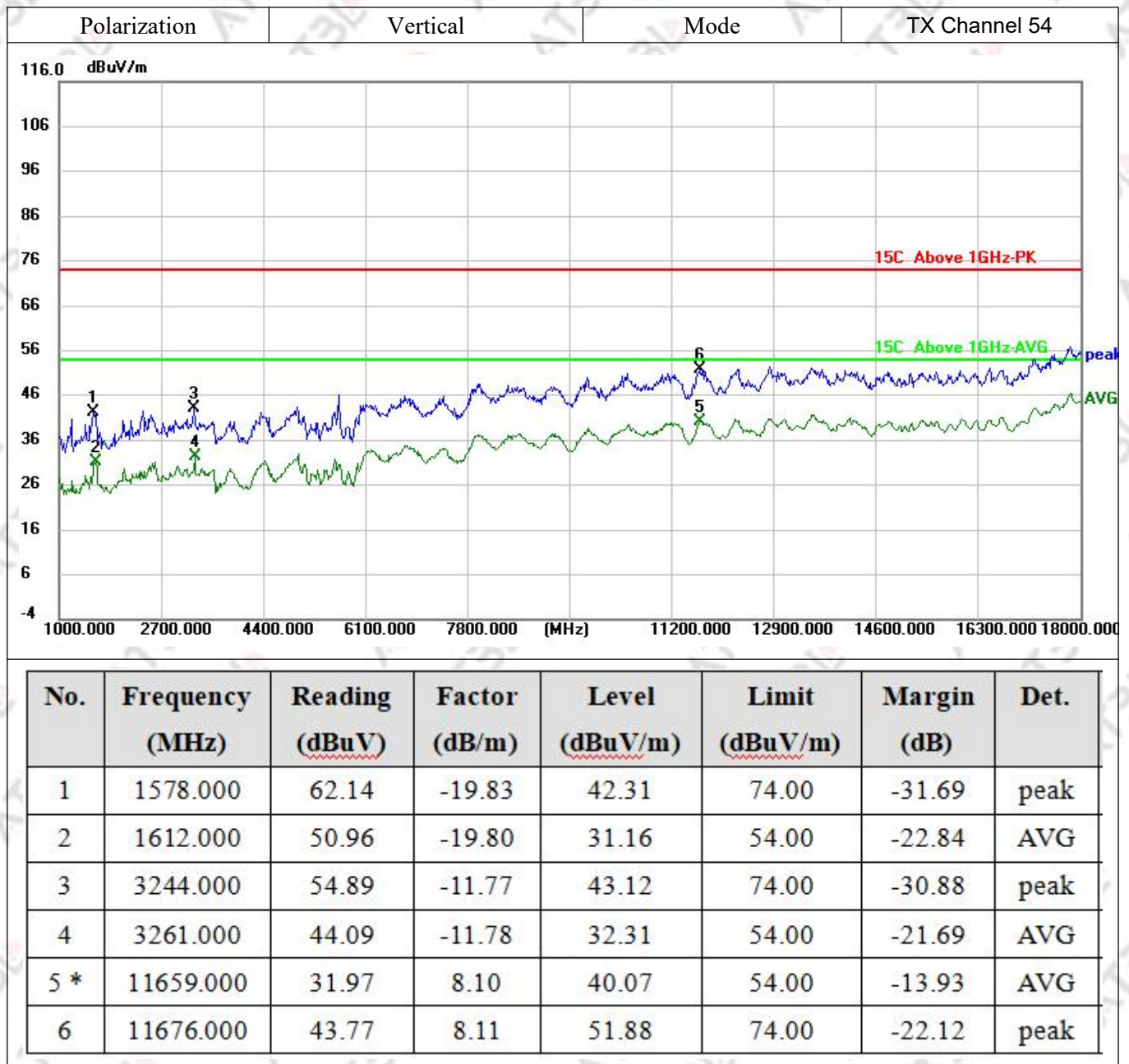
U-NII-2A(5270-5310)

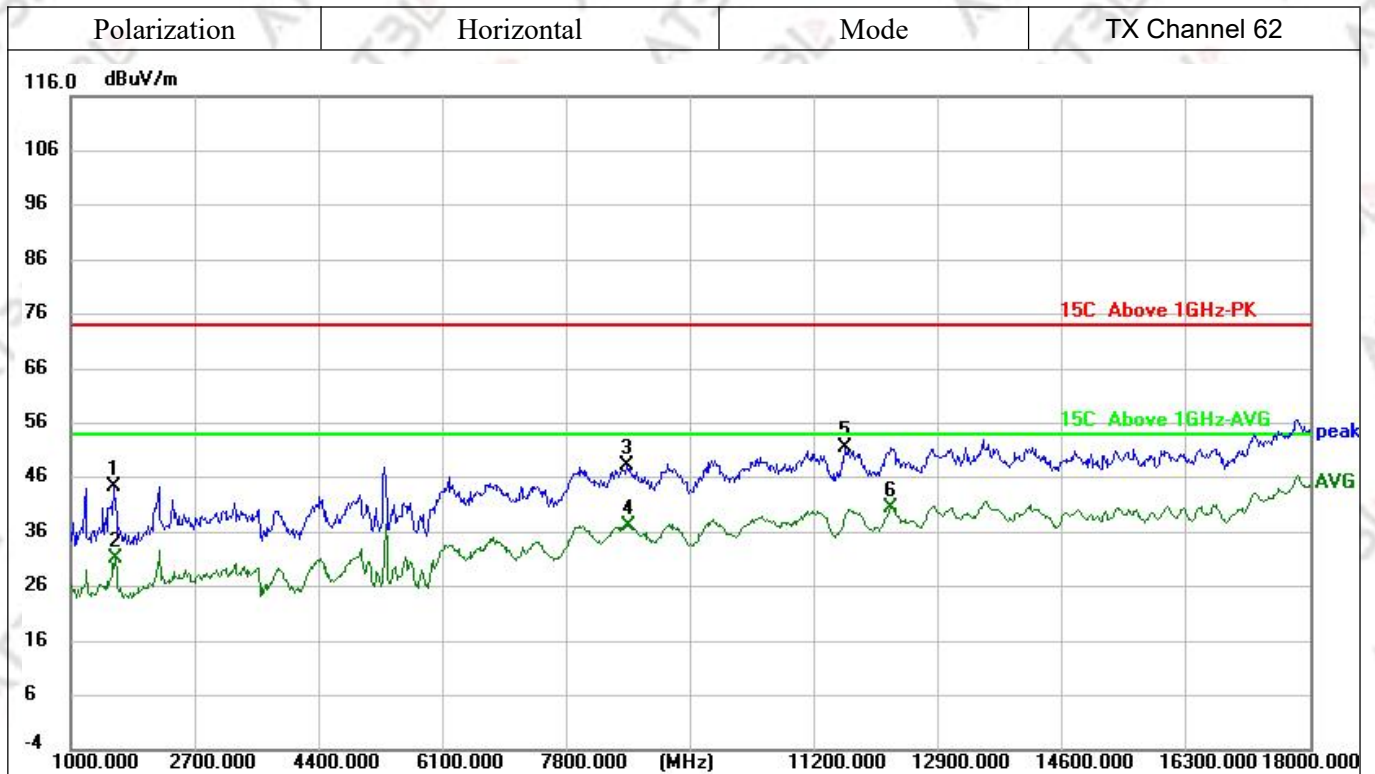
802.11n (40MHz)



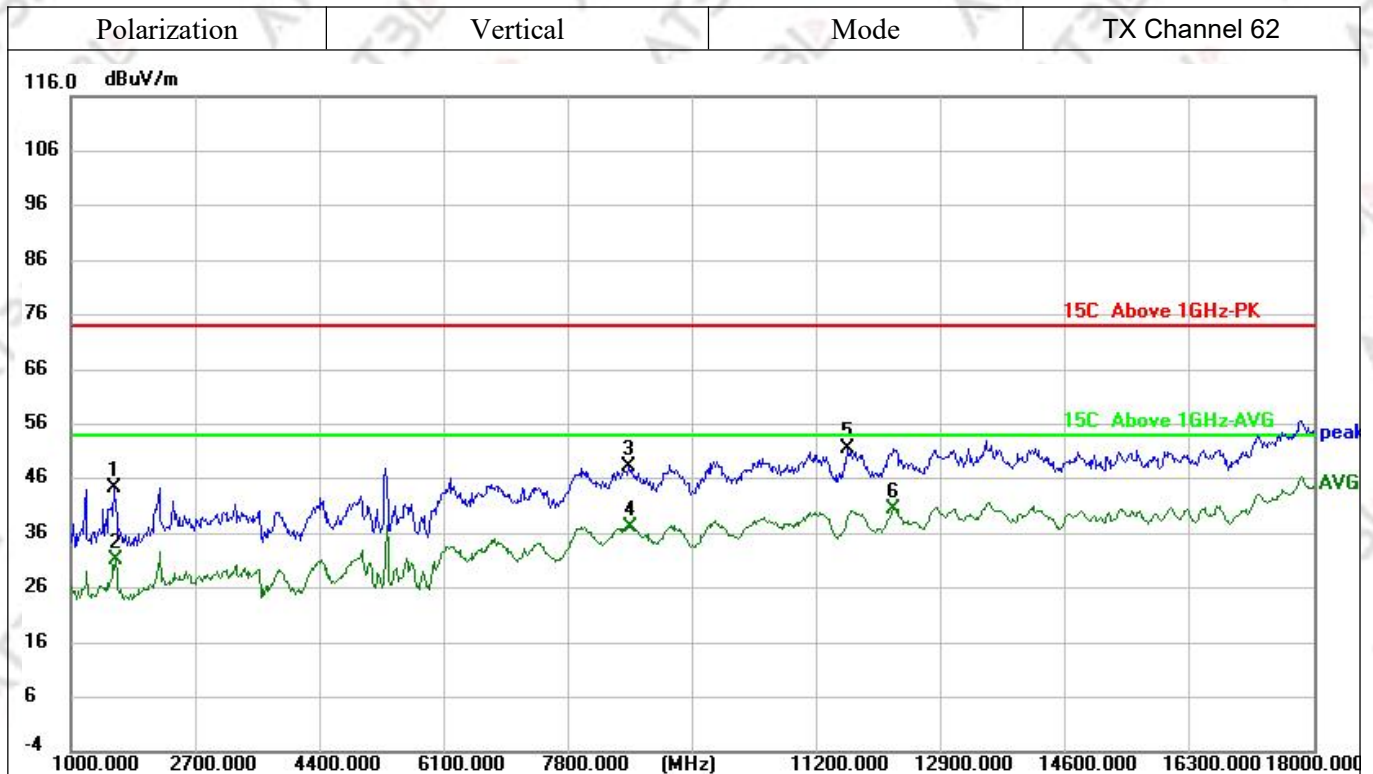
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|------|
| 1   | 1578.000           | 62.97             | -19.83           | 43.14             | 74.00             | -30.86         | peak |
| 2   | 1612.000           | 51.86             | -19.80           | 32.06             | 54.00             | -21.94         | AVG  |
| 3   | 3244.000           | 55.09             | -11.77           | 43.32             | 74.00             | -30.68         | peak |
| 4   | 3261.000           | 43.72             | -11.78           | 31.94             | 54.00             | -22.06         | AVG  |
| 5   | 11676.000          | 43.09             | 8.11             | 51.20             | 74.00             | -22.80         | peak |
| 6 * | 11676.000          | 31.95             | 8.11             | 40.06             | 54.00             | -13.94         | AVG  |







| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|------|
| 1   | 1595.000           | 64.17             | -19.82           | 44.35             | 74.00             | -29.65         | peak |
| 2   | 1612.000           | 50.85             | -19.80           | 31.05             | 54.00             | -22.95         | AVG  |
| 3   | 8633.000           | 45.52             | 2.65             | 48.17             | 74.00             | -25.83         | peak |
| 4   | 8650.000           | 34.52             | 2.69             | 37.21             | 54.00             | -16.79         | AVG  |
| 5   | 11625.000          | 43.33             | 8.07             | 51.40             | 74.00             | -22.60         | peak |
| 6 * | 12254.000          | 32.03             | 8.48             | 40.51             | 54.00             | -13.49         | AVG  |

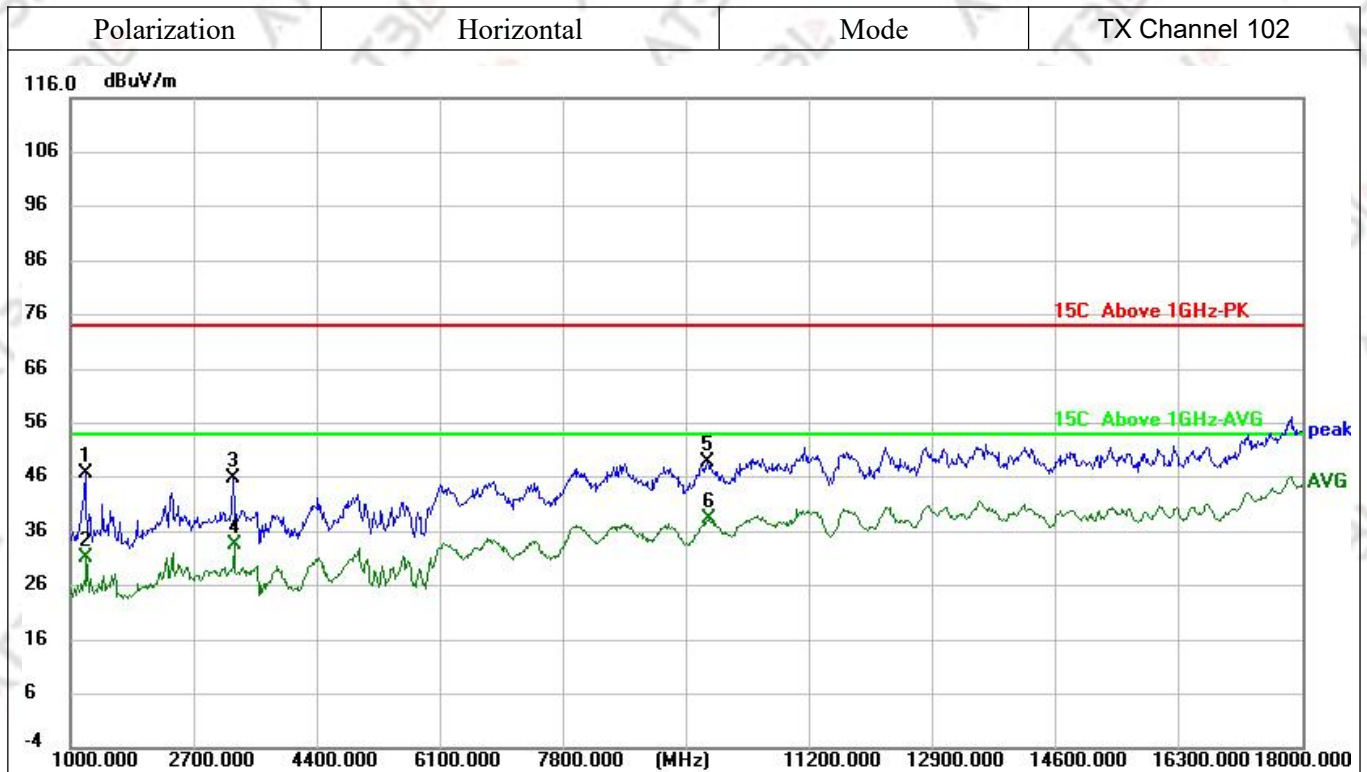


| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Factor<br>(dB/m) | Level<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Det. |
|-----|--------------------|-------------------|------------------|-------------------|-------------------|----------------|------|
| 1   | 1595.000           | 64.17             | -19.82           | 44.35             | 74.00             | -29.65         | peak |
| 2   | 1612.000           | 50.85             | -19.80           | 31.05             | 54.00             | -22.95         | AVG  |
| 3   | 8633.000           | 45.52             | 2.65             | 48.17             | 74.00             | -25.83         | peak |
| 4   | 8650.000           | 34.52             | 2.69             | 37.21             | 54.00             | -16.79         | AVG  |
| 5   | 11625.000          | 43.33             | 8.07             | 51.40             | 74.00             | -22.60         | peak |
| 6 * | 12254.000          | 32.03             | 8.48             | 40.51             | 54.00             | -13.49         | AVG  |

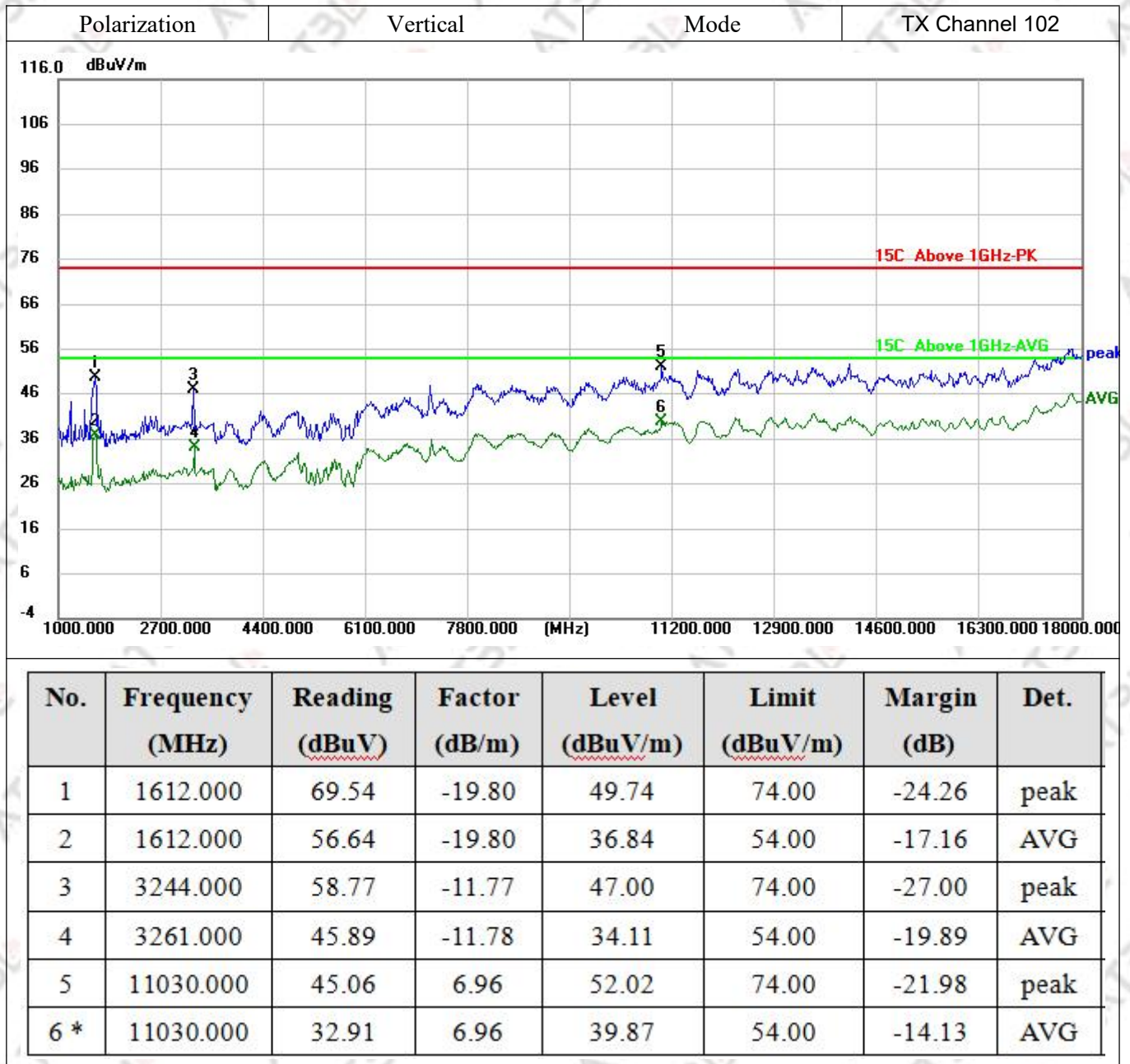


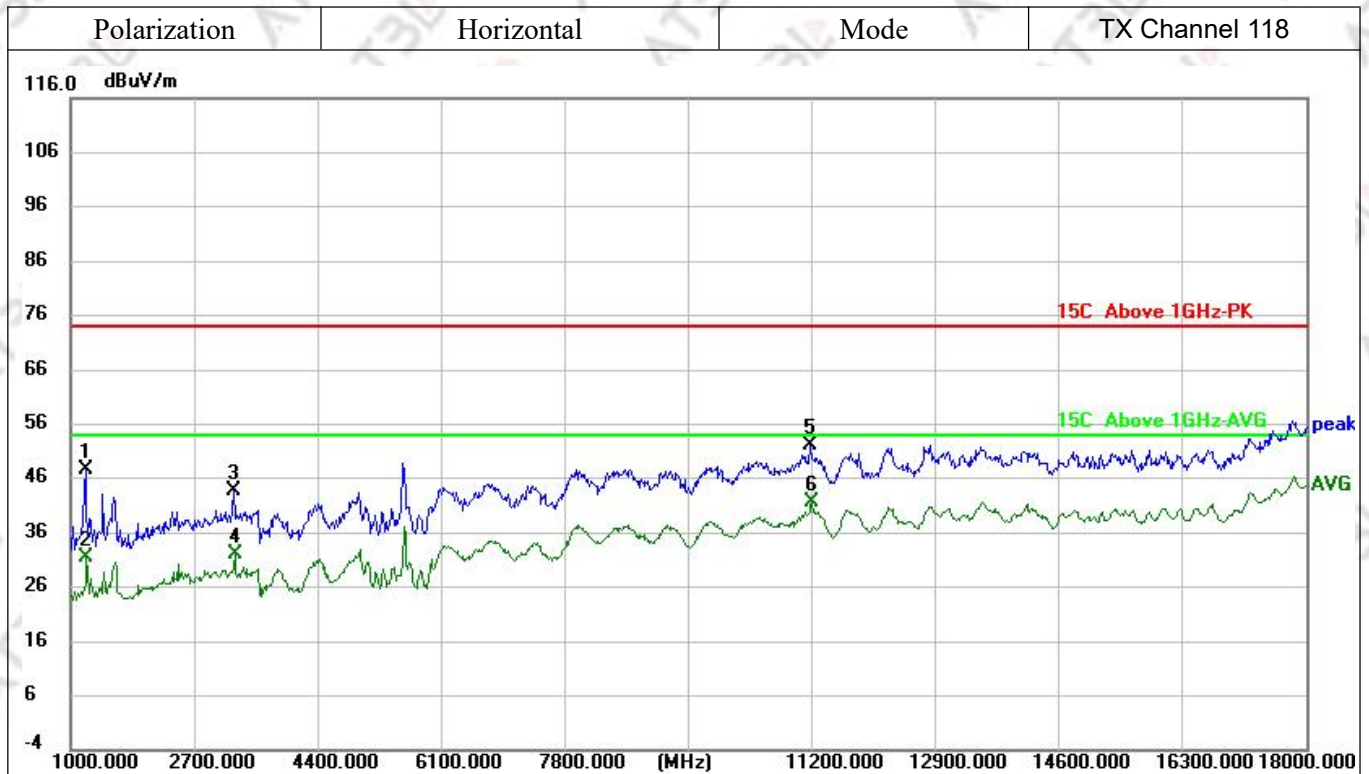
U-NII-2C(5510-5690)

802.11n(40MHz)



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 1204.000        | 66.93          | -20.31        | 46.62          | 74.00          | -27.38      | peak |
| 2   | 1221.000        | 51.54          | -20.26        | 31.28          | 54.00          | -22.72      | AVG  |
| 3   | 3244.000        | 57.63          | -11.77        | 45.86          | 74.00          | -28.14      | peak |
| 4   | 3261.000        | 45.31          | -11.78        | 33.53          | 54.00          | -20.47      | AVG  |
| 5   | 9789.000        | 43.95          | 4.72          | 48.67          | 74.00          | -25.33      | peak |
| 6 * | 9806.000        | 33.52          | 4.76          | 38.28          | 54.00          | -15.72      | AVG  |





| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Det. |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|------|
| 1   | 1204.000        | 68.03          | -20.31        | 47.72          | 74.00          | -26.28      | peak |
| 2   | 1221.000        | 51.67          | -20.26        | 31.41          | 54.00          | -22.59      | AVG  |
| 3   | 3244.000        | 55.61          | -11.77        | 43.84          | 74.00          | -30.16      | peak |
| 4   | 3261.000        | 43.94          | -11.78        | 32.16          | 54.00          | -21.84      | AVG  |
| 5   | 11166.000       | 44.78          | 7.26          | 52.04          | 74.00          | -21.96      | peak |
| 6 * | 11200.000       | 34.37          | 7.34          | 41.71          | 54.00          | -12.29      | AVG  |