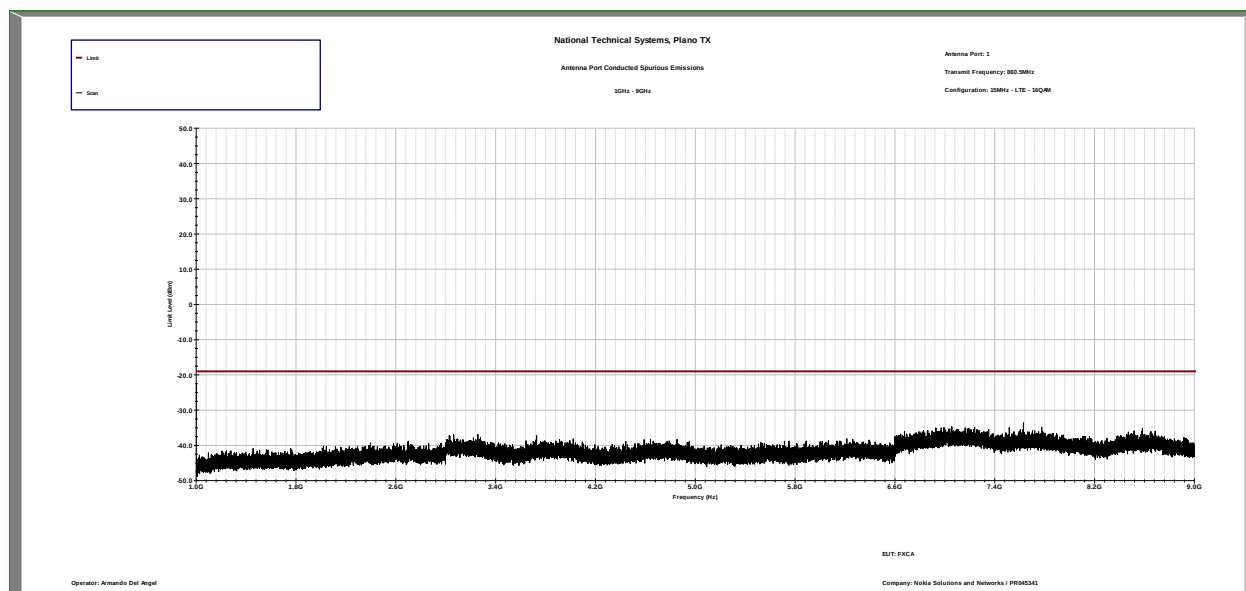
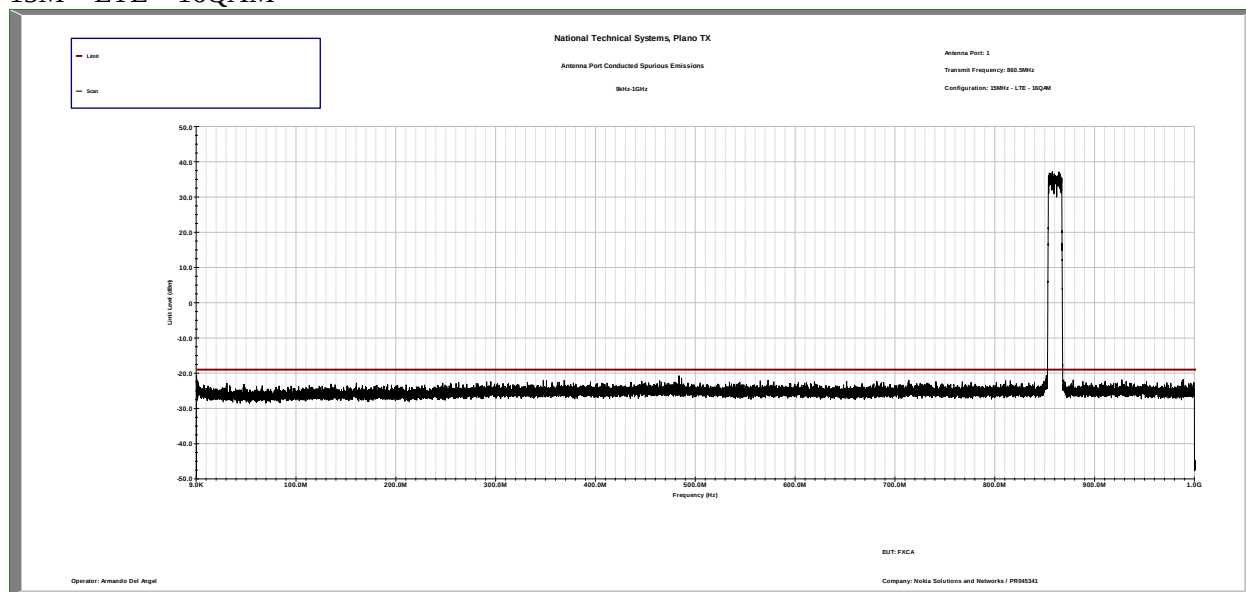
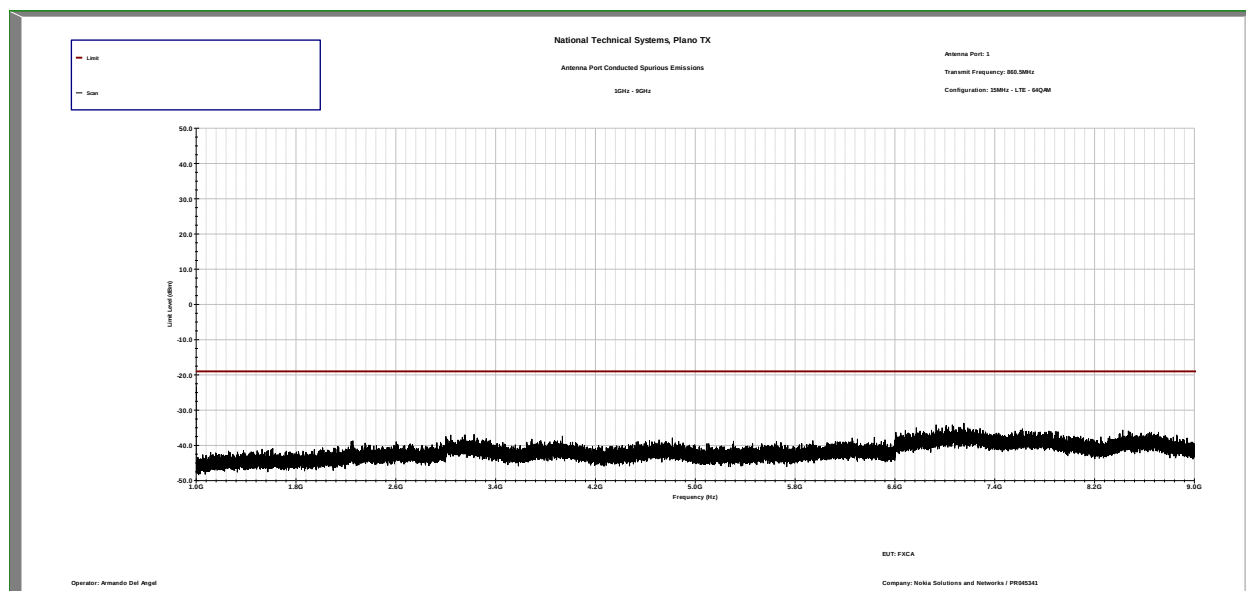
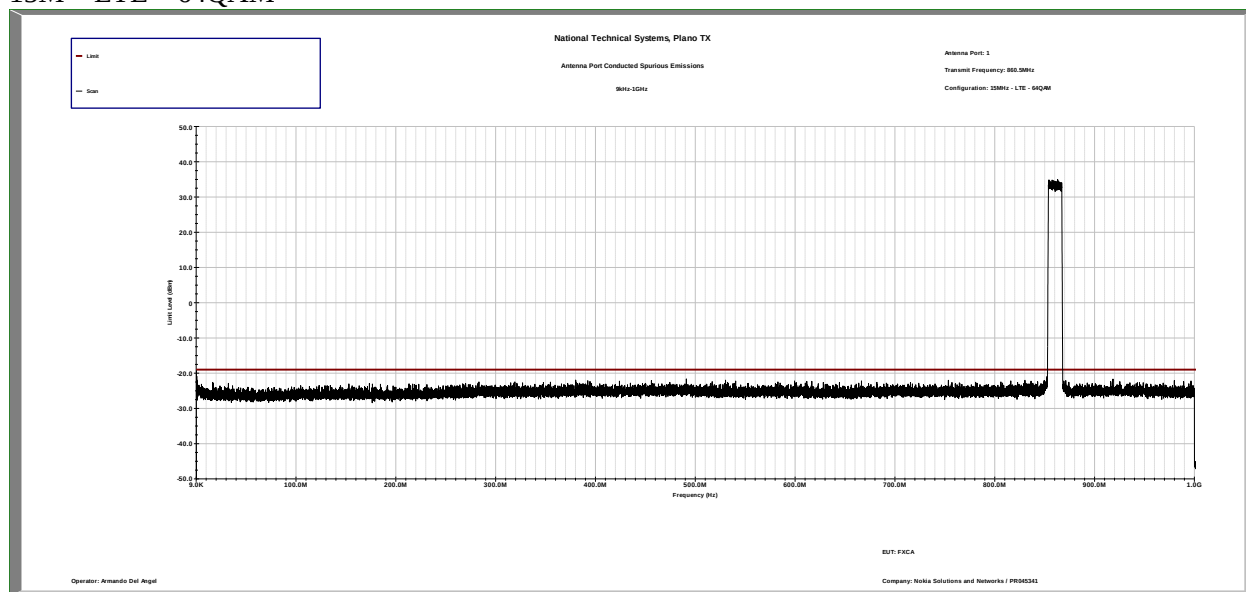


# 15M – LTE – 16QAM



# 15M – LTE – 64QAM



**Transmitter Radiated Spurious Emissions**

Based on antenna port conducted spurious emissions tests results, preliminary scans for radiated spurious emissions were performed in 30MHz – 10GHz frequency range in the following configurations:

LTE: 1.4M - QPSK transmitting on antenna 1 at bottom channel (852.7 MHz), antenna 3 at middle channel (860.5 MHz) and antenna 5 at top channel (893.3 MHz).

Final maximized peak radiated emissions were measured in these modes. During testing all antenna ports of the base station were terminated with 50ohm termination blocks and unit was transmitting on all of its ports at full power as described above.

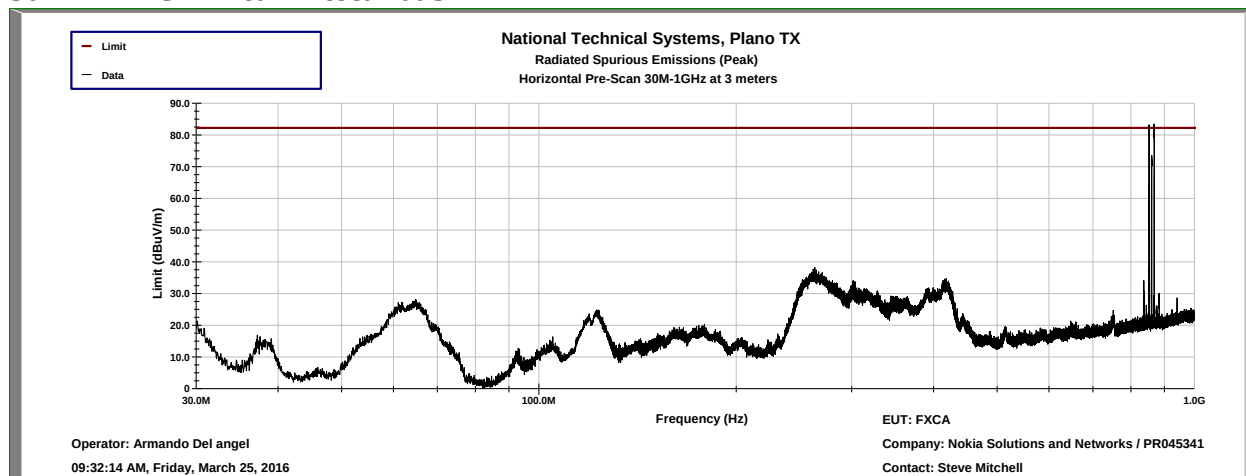
| Frequency                                                                             | Polarity | Raw Peaks | Antenna | Cable | PreAmp  | Corrected | Limit  | Margin  |
|---------------------------------------------------------------------------------------|----------|-----------|---------|-------|---------|-----------|--------|---------|
| Hz                                                                                    | H/V      | dBuV/m    | dB      | dB    | dB      | dBuV/m    | dBuV/m | dB      |
| 65.6475                                                                               | V        | 68.349    | 7.2     | 0.449 | -36.926 | 39.072    | 82.2   | -43.128 |
| 263.6                                                                                 | H        | 60.667    | 13.772  | 0.978 | -37.273 | 38.144    | 82.2   | -44.056 |
| 4342.737                                                                              | V        | 42.392    | 32.156  | 4.523 | -41.266 | 37.805    | 82.2   | -44.395 |
| 3410.34                                                                               | H        | 42.792    | 31.048  | 4.187 | -41.717 | 36.309    | 82.2   | -45.891 |
| 837.355                                                                               | V        | 45.272    | 23.647  | 2.289 | -35.945 | 35.262    | 82.2   | -46.938 |
| 418.485                                                                               | H        | 53.292    | 16.939  | 1.274 | -36.813 | 34.692    | 82.2   | -47.508 |
| 301.842                                                                               | H        | 55.756    | 14.4    | 1.063 | -37.183 | 34.036    | 82.2   | -48.164 |
| 837.161                                                                               | H        | 44.042    | 23.643  | 2.287 | -35.946 | 34.027    | 82.2   | -48.173 |
| 829.4                                                                                 | V        | 29.592    | 23.7    | 2.242 | -35.962 | 33.964    | 82.2   | -48.236 |
| 260.933                                                                               | V        | 56.3      | 13.719  | 0.972 | -37.278 | 33.713    | 82.2   | -48.487 |
| 4263.128                                                                              | H        | 38.511    | 32.167  | 4.119 | -41.329 | 33.467    | 82.2   | -48.733 |
| 1719.94                                                                               | H        | 46.085    | 26.265  | 2.691 | -42.183 | 32.857    | 82.2   | -49.343 |
| 3441.624                                                                              | V        | 38.697    | 31.072  | 4.194 | -41.793 | 32.169    | 82.2   | -50.031 |
| 2558.884                                                                              | H        | 41.673    | 28.648  | 3.324 | -42.589 | 31.056    | 82.2   | -51.144 |
| 3442.724                                                                              | H        | 37.279    | 31.072  | 4.194 | -41.796 | 30.749    | 82.2   | -51.451 |
| 1706.416                                                                              | V        | 43.635    | 26.173  | 2.68  | -42.188 | 30.299    | 82.2   | -51.901 |
| 1721.78                                                                               | V        | 42.345    | 26.278  | 2.692 | -42.183 | 29.132    | 82.2   | -53.068 |
| 2581.814                                                                              | H        | 39.644    | 28.683  | 3.344 | -42.614 | 29.057    | 82.2   | -53.143 |
| 1735.711                                                                              | V        | 41.777    | 26.373  | 2.704 | -42.178 | 28.675    | 82.2   | -53.525 |
| 2581.869                                                                              | H        | 38.851    | 28.683  | 3.344 | -42.614 | 28.264    | 82.2   | -53.936 |
| 2605.638                                                                              | V        | 38.813    | 28.711  | 3.365 | -42.641 | 28.248    | 82.2   | -53.952 |
| 3473.146                                                                              | V        | 29.816    | 31.089  | 4.201 | -41.87  | 23.235    | 82.2   | -58.965 |
| Corrected Field Strength = Raw Reading + Amplifier Gain + Antenna Factor + Cable Loss |          |           |         |       |         |           |        |         |
| Negative Margin Indicate Passing Result                                               |          |           |         |       |         |           |        |         |
| Detector = Peak, RBW = 1MHz, VBW = 3MHz, Max Hold                                     |          |           |         |       |         |           |        |         |

Highest noise floor of the measurement instrumentation was more than 20dB below the 82.2dBuV/m at 3m limit (equivalent to -13dBm EIRP).

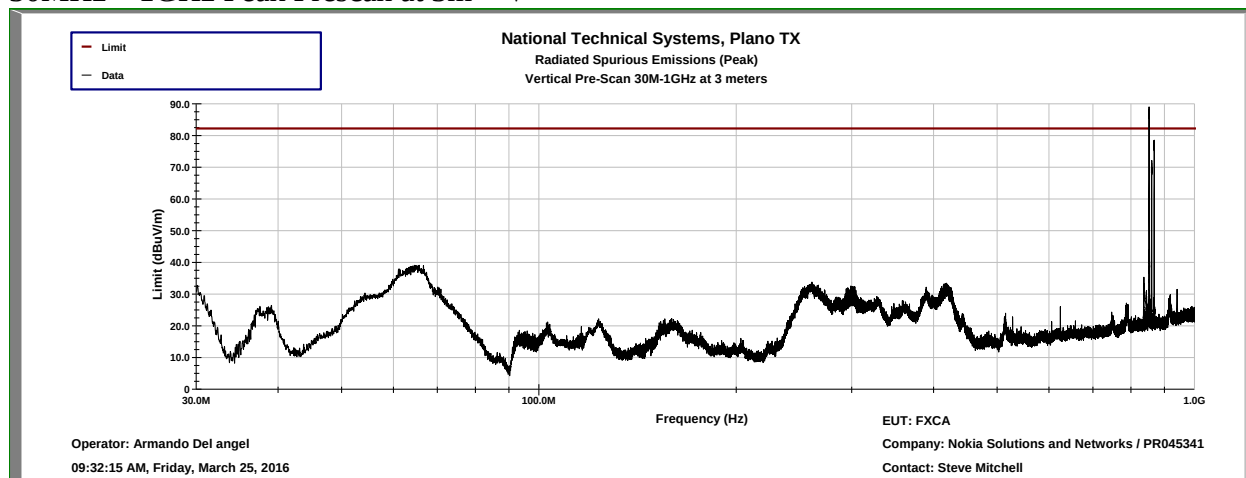
Since all maximized readings were more than 20dB below the 82.2dBuV/m at 3m limit (equivalent to -13dBm EIRP), substitution measurements were not performed.

TILE software was used for all prescans and plots included on the following pages.

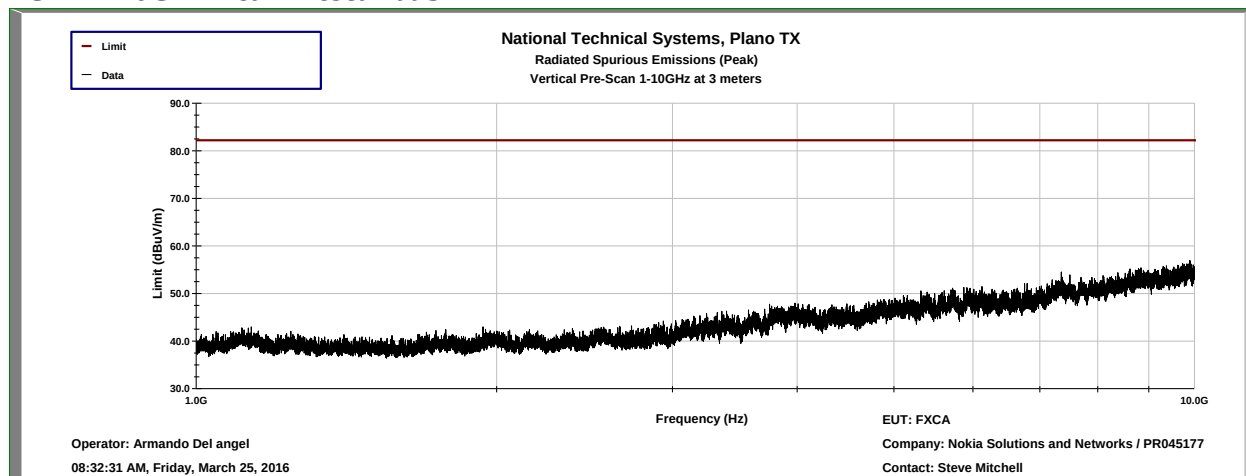
## 30MHz – 1GHz Peak Prescan at 3m – H



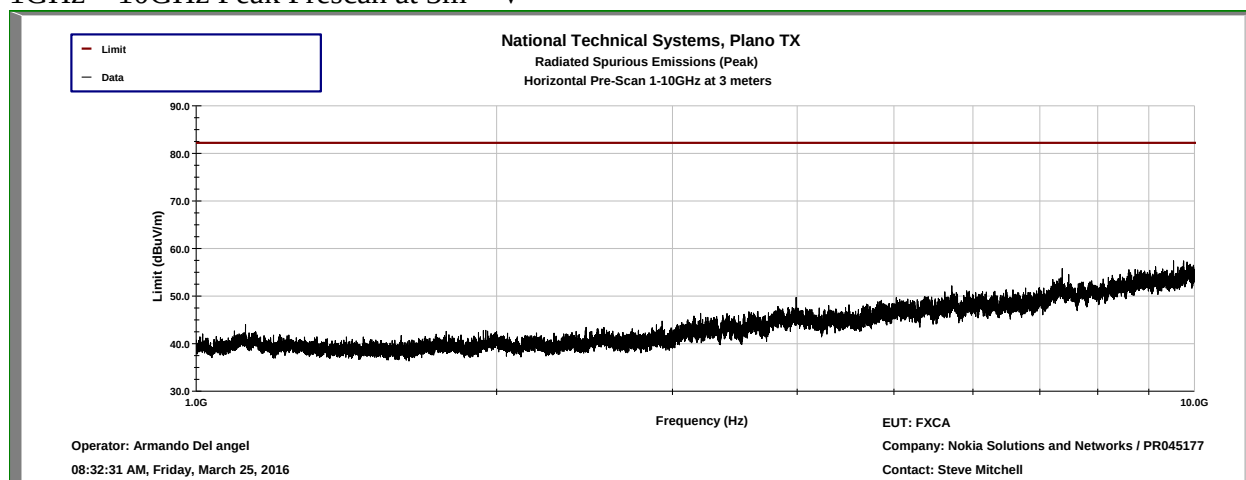
## 30MHz – 1GHz Peak Prescan at 3m – V



## 1GHz – 10GHz Peak Prescan at 3m – H



## 1GHz – 10GHz Peak Prescan at 3m – V



***End of Report***

This page is intentionally blank and marks the last page of this test report.