

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |    |   | 16QAM      |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 20 | M | DFT-16QAM  | Inner_Full      | 26.47 | 26.12 | 29.31 | 23.18 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | M | DFT-16QAM  | Inner_1RB_Left  | 26.5  | 26.12 | 29.33 | 23.2  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | M | DFT-16QAM  | Inner_1RB_Right | 26.32 | 25.96 | 29.15 | 23.02 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | M | DFT-16QAM  | Edge_1RB_Left   | 20.99 | 20.57 | 23.79 | 17.66 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | M | DFT-16QAM  | Edge_1RB_Right  | 20.81 | 20.46 | 23.65 | 17.52 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | M | DFT-64QAM  | Outer_Full      | 24    | 23.65 | 26.84 | 20.71 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | M | DFT-64QAM  | Inner_Full      | 24.49 | 24.19 | 27.35 | 21.22 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | M | DFT-64QAM  | Inner_1RB_Left  | 24.72 | 24.27 | 27.51 | 21.38 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | M | DFT-64QAM  | Inner_1RB_Right | 24.38 | 24    | 27.21 | 21.08 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | M | DFT-64QAM  | Edge_1RB_Left   | 20.89 | 20.57 | 23.74 | 17.61 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | M | DFT-64QAM  | Edge_1RB_Right  | 20.82 | 20.47 | 23.66 | 17.53 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | M | DFT-256QAM | Outer_Full      | 22.05 | 21.74 | 24.91 | 18.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | M | DFT-256QAM | Inner_Full      | 22.01 | 21.66 | 24.85 | 18.72 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | M | DFT-256QAM | Inner_1RB_Left  | 21.95 | 21.62 | 24.8  | 18.67 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | M | DFT-256QAM | Inner_1RB_Right | 21.81 | 21.5  | 24.66 | 18.53 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | M | DFT-256QAM | Edge_1RB_Left   | 21.02 | 20.64 | 23.85 | 17.72 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | M | DFT-256QAM | Edge_1RB_Right  | 20.65 | 20.38 | 23.53 | 17.4  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-BPSK   | Outer_Full      | 26.16 | 25.44 | 28.83 | 22.7  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-BPSK   | Inner_Full      | 27.64 | 26.93 | 30.31 | 24.18 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-BPSK   | Inner_1RB_Left  | 27.64 | 26.94 | 30.31 | 24.18 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-BPSK   | Inner_1RB_Right | 27.63 | 26.82 | 30.25 | 24.12 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-BPSK   | Edge_1RB_Left   | 21.47 | 20.84 | 24.18 | 18.05 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-BPSK   | Edge_1RB_Right  | 21.4  | 20.61 | 24.03 | 17.9  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-QPSK   | Outer_Full      | 25.65 | 24.92 | 28.31 | 22.18 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-QPSK   | Inner_Full      | 27.56 | 26.92 | 30.26 | 24.13 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-QPSK   | Inner_1RB_Left  | 27.59 | 27.02 | 30.32 | 24.19 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-QPSK   | Inner_1RB_Right | 27.56 | 26.77 | 30.2  | 24.07 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-QPSK   | Edge_1RB_Left   | 21.03 | 20.41 | 23.74 | 17.61 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-QPSK   | Edge_1RB_Right  | 21    | 20.11 | 23.58 | 17.45 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-16QAM  | Outer_Full      | 24.63 | 23.85 | 27.27 | 21.14 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-16QAM  | Inner_Full      | 26.63 | 25.88 | 29.29 | 23.16 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-16QAM  | Inner_1RB_Left  | 26.44 | 25.89 | 29.18 | 23.05 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-16QAM  | Inner_1RB_Right | 26.54 | 25.69 | 29.15 | 23.02 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-16QAM  | Edge_1RB_Left   | 21    | 20.38 | 23.71 | 17.58 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-16QAM  | Edge_1RB_Right  | 21.09 | 20.16 | 23.66 | 17.53 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-64QAM  | Outer_Full      | 23.99 | 23.4  | 26.71 | 20.58 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-64QAM  | Inner_Full      | 24.47 | 23.83 | 27.17 | 21.04 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-64QAM  | Inner_1RB_Left  | 24.7  | 24.12 | 27.43 | 21.3  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-64QAM  | Inner_1RB_Right | 24.77 | 23.89 | 27.36 | 21.23 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-64QAM  | Edge_1RB_Left   | 21.24 | 20.5  | 23.89 | 17.76 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-64QAM  | Edge_1RB_Right  | 21.07 | 20.26 | 23.69 | 17.56 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-256QAM | Outer_Full      | 22.23 | 21.47 | 24.87 | 18.74 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-256QAM | Inner_Full      | 22.04 | 21.38 | 24.73 | 18.6  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-256QAM | Inner_1RB_Left  | 21.97 | 21.38 | 24.69 | 18.56 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-       | Inner_1RB_Right | 21.93 | 21.14 | 24.56 | 18.43 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |    |   | 256QAM     |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-256QAM | Edge_1RB_Left   | 21.04 | 20.48 | 23.78 | 17.65 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 20 | H | DFT-256QAM | Edge_1RB_Right  | 20.96 | 20.2  | 23.61 | 17.48 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-BPSK   | Outer_Full      | 26.13 | 25.63 | 28.9  | 22.77 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-BPSK   | Inner_Full      | 27.63 | 27.17 | 30.42 | 24.29 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-BPSK   | Inner_1RB_Left  | 27.57 | 26.97 | 30.29 | 24.16 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-BPSK   | Inner_1RB_Right | 27.29 | 26.89 | 30.1  | 23.97 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-BPSK   | Edge_1RB_Left   | 21.78 | 21.03 | 24.43 | 18.3  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-BPSK   | Edge_1RB_Right  | 21.54 | 20.96 | 24.27 | 18.14 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-QPSK   | Outer_Full      | 25.57 | 25.02 | 28.31 | 22.18 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-QPSK   | Inner_Full      | 27.62 | 27.08 | 30.37 | 24.24 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-QPSK   | Inner_1RB_Left  | 27.66 | 26.99 | 30.35 | 24.22 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-QPSK   | Inner_1RB_Right | 27.35 | 26.92 | 30.15 | 24.02 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-QPSK   | Edge_1RB_Left   | 21.36 | 20.62 | 24.02 | 17.89 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-QPSK   | Edge_1RB_Right  | 21.1  | 20.53 | 23.84 | 17.71 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-16QAM  | Outer_Full      | 24.72 | 24.09 | 27.42 | 21.29 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-16QAM  | Inner_Full      | 26.59 | 26.03 | 29.33 | 23.2  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-16QAM  | Inner_1RB_Left  | 26.71 | 25.97 | 29.37 | 23.24 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-16QAM  | Inner_1RB_Right | 26.43 | 25.82 | 29.14 | 23.01 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-16QAM  | Edge_1RB_Left   | 21.61 | 20.75 | 24.21 | 18.08 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-16QAM  | Edge_1RB_Right  | 21.14 | 20.57 | 23.87 | 17.74 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-64QAM  | Outer_Full      | 24.21 | 23.59 | 26.92 | 20.79 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-64QAM  | Inner_Full      | 24.64 | 24.14 | 27.41 | 21.28 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-64QAM  | Inner_1RB_Left  | 24.92 | 24.23 | 27.6  | 21.47 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-64QAM  | Inner_1RB_Right | 24.67 | 24.21 | 27.46 | 21.33 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-64QAM  | Edge_1RB_Left   | 21.24 | 20.51 | 23.91 | 17.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-64QAM  | Edge_1RB_Right  | 21.02 | 20.43 | 23.74 | 17.61 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-256QAM | Outer_Full      | 22.18 | 21.68 | 24.95 | 18.82 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-256QAM | Inner_Full      | 22.15 | 21.66 | 24.93 | 18.8  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-256QAM | Inner_1RB_Left  | 22.24 | 21.45 | 24.87 | 18.74 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-256QAM | Inner_1RB_Right | 22.11 | 21.59 | 24.87 | 18.74 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-256QAM | Edge_1RB_Left   | 21.28 | 20.42 | 23.88 | 17.75 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | L | DFT-256QAM | Edge_1RB_Right  | 21.04 | 20.35 | 23.72 | 17.59 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-BPSK   | Outer_Full      | 26.05 | 25.61 | 28.85 | 22.72 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-BPSK   | Inner_Full      | 27.55 | 27.21 | 30.39 | 24.26 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-BPSK   | Inner_1RB_Left  | 27.51 | 27.09 | 30.32 | 24.19 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-BPSK   | Inner_1RB_Right | 27.34 | 26.95 | 30.16 | 24.03 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-BPSK   | Edge_1RB_Left   | 21.47 | 21.12 | 24.31 | 18.18 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-BPSK   | Edge_1RB_Right  | 21.25 | 20.94 | 24.11 | 17.98 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-QPSK   | Outer_Full      | 25.48 | 25.12 | 28.31 | 22.18 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-QPSK   | Inner_Full      | 27.52 | 27.17 | 30.36 | 24.23 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-QPSK   | Inner_1RB_Left  | 27.46 | 27.13 | 30.31 | 24.18 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-QPSK   | Inner_1RB_Right | 27.3  | 26.91 | 30.12 | 23.99 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-QPSK   | Edge_1RB_Left   | 21.03 | 20.68 | 23.87 | 17.74 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-QPSK   | Edge_1RB_Right  | 20.78 | 20.53 | 23.67 | 17.54 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-       | Outer_Full      | 24.47 | 24.18 | 27.34 | 21.21 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |    |   | 16QAM      |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-16QAM  | Inner_Full      | 26.57 | 26.19 | 29.39 | 23.26 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-16QAM  | Inner_1RB_Left  | 26.55 | 26.2  | 29.39 | 23.26 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-16QAM  | Inner_1RB_Right | 26.36 | 25.99 | 29.19 | 23.06 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-16QAM  | Edge_1RB_Left   | 21.13 | 20.72 | 23.94 | 17.81 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-16QAM  | Edge_1RB_Right  | 21.13 | 20.65 | 23.9  | 17.77 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-64QAM  | Outer_Full      | 24.07 | 23.68 | 26.89 | 20.76 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-64QAM  | Inner_Full      | 24.54 | 24.22 | 27.39 | 21.26 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-64QAM  | Inner_1RB_Left  | 24.67 | 24.32 | 27.51 | 21.38 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-64QAM  | Inner_1RB_Right | 24.4  | 24.03 | 27.23 | 21.1  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-64QAM  | Edge_1RB_Left   | 21.01 | 20.6  | 23.82 | 17.69 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-64QAM  | Edge_1RB_Right  | 20.81 | 20.43 | 23.63 | 17.5  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-256QAM | Outer_Full      | 24.02 | 23.67 | 26.86 | 20.73 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-256QAM | Inner_Full      | 22.06 | 21.77 | 24.93 | 18.8  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-256QAM | Inner_1RB_Left  | 22.25 | 21.72 | 25    | 18.87 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-256QAM | Inner_1RB_Right | 21.8  | 21.41 | 24.62 | 18.49 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-256QAM | Edge_1RB_Left   | 21.13 | 20.7  | 23.93 | 17.8  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | M | DFT-256QAM | Edge_1RB_Right  | 20.86 | 20.45 | 23.67 | 17.54 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-BPSK   | Outer_Full      | 26.12 | 25.57 | 28.86 | 22.73 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-BPSK   | Inner_Full      | 27.71 | 27    | 30.38 | 24.25 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-BPSK   | Inner_1RB_Left  | 27.57 | 26.97 | 30.29 | 24.16 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-BPSK   | Inner_1RB_Right | 27.5  | 26.79 | 30.17 | 24.04 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-BPSK   | Edge_1RB_Left   | 21.79 | 20.92 | 24.38 | 18.25 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-BPSK   | Edge_1RB_Right  | 21.49 | 20.78 | 24.16 | 18.03 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-QPSK   | Outer_Full      | 25.63 | 24.96 | 28.32 | 22.19 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-QPSK   | Inner_Full      | 27.63 | 26.96 | 30.32 | 24.19 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-QPSK   | Inner_1RB_Left  | 27.6  | 27    | 30.32 | 24.19 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-QPSK   | Inner_1RB_Right | 27.49 | 26.81 | 30.17 | 24.04 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-QPSK   | Edge_1RB_Left   | 21.14 | 20.5  | 23.84 | 17.71 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-QPSK   | Edge_1RB_Right  | 21.08 | 20.26 | 23.7  | 17.57 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-16QAM  | Outer_Full      | 24.68 | 23.88 | 27.31 | 21.18 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-16QAM  | Inner_Full      | 26.52 | 25.89 | 29.23 | 23.1  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-16QAM  | Inner_1RB_Left  | 26.55 | 25.98 | 29.29 | 23.16 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-16QAM  | Inner_1RB_Right | 26.6  | 25.82 | 29.24 | 23.11 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-16QAM  | Edge_1RB_Left   | 21.39 | 20.71 | 24.07 | 17.94 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-16QAM  | Edge_1RB_Right  | 21.19 | 20.48 | 23.86 | 17.73 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-64QAM  | Outer_Full      | 24.2  | 23.49 | 26.87 | 20.74 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-64QAM  | Inner_Full      | 24.73 | 24.06 | 27.42 | 21.29 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-64QAM  | Inner_1RB_Left  | 24.64 | 24.09 | 27.39 | 21.26 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-64QAM  | Inner_1RB_Right | 24.57 | 23.84 | 27.23 | 21.1  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-64QAM  | Edge_1RB_Left   | 21.15 | 20.54 | 23.87 | 17.74 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-64QAM  | Edge_1RB_Right  | 21.05 | 20.31 | 23.71 | 17.58 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-256QAM | Outer_Full      | 22.26 | 21.46 | 24.89 | 18.76 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-256QAM | Inner_Full      | 22.19 | 21.48 | 24.86 | 18.73 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-256QAM | Inner_1RB_Left  | 22.07 | 21.52 | 24.82 | 18.69 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-       | Inner_1RB_Right | 21.98 | 21.27 | 24.65 | 18.52 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |    |   | 256QAM     |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-256QAM | Edge_1RB_Left   | 21.32 | 20.68 | 24.02 | 17.89 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 25 | H | DFT-256QAM | Edge_1RB_Right  | 21.02 | 20.32 | 23.69 | 17.56 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-BPSK   | Outer_Full      | 26.21 | 25.6  | 28.93 | 22.8  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-BPSK   | Inner_Full      | 27.67 | 27.1  | 30.4  | 24.27 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-BPSK   | Inner_1RB_Left  | 27.72 | 27.11 | 30.44 | 24.31 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-BPSK   | Inner_1RB_Right | 27.5  | 26.9  | 30.22 | 24.09 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-BPSK   | Edge_1RB_Left   | 21.85 | 21.13 | 24.52 | 18.39 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-BPSK   | Edge_1RB_Right  | 21.63 | 20.94 | 24.31 | 18.18 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-QPSK   | Outer_Full      | 25.59 | 25.03 | 28.33 | 22.2  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-QPSK   | Inner_Full      | 27.58 | 27.06 | 30.34 | 24.21 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-QPSK   | Inner_1RB_Left  | 27.76 | 27.04 | 30.42 | 24.29 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-QPSK   | Inner_1RB_Right | 27.54 | 27.01 | 30.29 | 24.16 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-QPSK   | Edge_1RB_Left   | 21.33 | 20.49 | 23.94 | 17.81 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-QPSK   | Edge_1RB_Right  | 21.12 | 20.54 | 23.85 | 17.72 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-16QAM  | Outer_Full      | 24.71 | 24.07 | 27.41 | 21.28 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-16QAM  | Inner_Full      | 26.51 | 26.18 | 29.36 | 23.23 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-16QAM  | Inner_1RB_Left  | 26.77 | 25.96 | 29.39 | 23.26 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-16QAM  | Inner_1RB_Right | 26.49 | 25.79 | 29.16 | 23.03 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-16QAM  | Edge_1RB_Left   | 21.53 | 20.49 | 24.05 | 17.92 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-16QAM  | Edge_1RB_Right  | 21.17 | 20.51 | 23.86 | 17.73 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-64QAM  | Outer_Full      | 24.17 | 23.53 | 26.87 | 20.74 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-64QAM  | Inner_Full      | 24.61 | 24.07 | 27.36 | 21.23 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-64QAM  | Inner_1RB_Left  | 25.01 | 24.24 | 27.65 | 21.52 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-64QAM  | Inner_1RB_Right | 24.67 | 24.08 | 27.4  | 21.27 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-64QAM  | Edge_1RB_Left   | 21.34 | 20.54 | 23.97 | 17.84 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-64QAM  | Edge_1RB_Right  | 21.01 | 20.34 | 23.7  | 17.57 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-256QAM | Outer_Full      | 22.18 | 21.59 | 24.91 | 18.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-256QAM | Inner_Full      | 22.18 | 21.67 | 24.94 | 18.81 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-256QAM | Inner_1RB_Left  | 22.34 | 21.56 | 24.97 | 18.84 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-256QAM | Inner_1RB_Right | 22.22 | 21.39 | 24.84 | 18.71 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-256QAM | Edge_1RB_Left   | 21.47 | 20.52 | 24.03 | 17.9  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | L | DFT-256QAM | Edge_1RB_Right  | 21.03 | 20.35 | 23.72 | 17.59 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-BPSK   | Outer_Full      | 25.98 | 25.65 | 28.83 | 22.7  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-BPSK   | Inner_Full      | 27.58 | 27.22 | 30.42 | 24.29 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-BPSK   | Inner_1RB_Left  | 27.57 | 27.29 | 30.44 | 24.31 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-BPSK   | Inner_1RB_Right | 27.43 | 27.05 | 30.26 | 24.13 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-BPSK   | Edge_1RB_Left   | 21.47 | 21.23 | 24.36 | 18.23 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-BPSK   | Edge_1RB_Right  | 21.31 | 20.97 | 24.15 | 18.02 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-QPSK   | Outer_Full      | 25.51 | 25.27 | 28.4  | 22.27 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-QPSK   | Inner_Full      | 27.54 | 27.1  | 30.34 | 24.21 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-QPSK   | Inner_1RB_Left  | 27.6  | 27.28 | 30.45 | 24.32 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-QPSK   | Inner_1RB_Right | 27.47 | 27.01 | 30.26 | 24.13 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-QPSK   | Edge_1RB_Left   | 21.09 | 20.83 | 23.97 | 17.84 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-QPSK   | Edge_1RB_Right  | 20.86 | 20.54 | 23.72 | 17.59 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-       | Outer_Full      | 24.57 | 24.22 | 27.41 | 21.28 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |    |   | 16QAM      |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-16QAM  | Inner_Full      | 26.55 | 26.1  | 29.34 | 23.21 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-16QAM  | Inner_1RB_Left  | 26.49 | 26.21 | 29.36 | 23.23 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-16QAM  | Inner_1RB_Right | 26.36 | 25.98 | 29.18 | 23.05 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-16QAM  | Edge_1RB_Left   | 21.07 | 20.76 | 23.93 | 17.8  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-16QAM  | Edge_1RB_Right  | 21    | 20.58 | 23.81 | 17.68 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-64QAM  | Outer_Full      | 24.05 | 23.77 | 26.92 | 20.79 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-64QAM  | Inner_Full      | 24.51 | 24.11 | 27.33 | 21.2  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-64QAM  | Inner_1RB_Left  | 24.54 | 24.3  | 27.43 | 21.3  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-64QAM  | Inner_1RB_Right | 24.61 | 24.19 | 27.41 | 21.28 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-64QAM  | Edge_1RB_Left   | 21.09 | 20.77 | 23.94 | 17.81 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-64QAM  | Edge_1RB_Right  | 21.06 | 20.64 | 23.87 | 17.74 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-256QAM | Outer_Full      | 22.05 | 21.63 | 24.86 | 18.73 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-256QAM | Inner_Full      | 22.09 | 21.7  | 24.91 | 18.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-256QAM | Inner_1RB_Left  | 21.98 | 21.56 | 24.78 | 18.65 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-256QAM | Inner_1RB_Right | 21.79 | 21.41 | 24.62 | 18.49 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-256QAM | Edge_1RB_Left   | 21.02 | 20.76 | 23.91 | 17.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | M | DFT-256QAM | Edge_1RB_Right  | 20.94 | 20.51 | 23.74 | 17.61 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-BPSK   | Outer_Full      | 26.16 | 25.41 | 28.81 | 22.68 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-BPSK   | Inner_Full      | 27.67 | 27.04 | 30.38 | 24.25 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-BPSK   | Inner_1RB_Left  | 27.79 | 27.1  | 30.47 | 24.34 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-BPSK   | Inner_1RB_Right | 27.59 | 26.72 | 30.18 | 24.05 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-BPSK   | Edge_1RB_Left   | 21.63 | 21.08 | 24.37 | 18.24 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-BPSK   | Edge_1RB_Right  | 21.55 | 20.64 | 24.13 | 18    | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-QPSK   | Outer_Full      | 25.63 | 24.88 | 28.28 | 22.15 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-QPSK   | Inner_Full      | 27.64 | 26.97 | 30.33 | 24.2  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-QPSK   | Inner_1RB_Left  | 27.76 | 27.09 | 30.45 | 24.32 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-QPSK   | Inner_1RB_Right | 27.65 | 26.89 | 30.29 | 24.16 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-QPSK   | Edge_1RB_Left   | 21.26 | 20.53 | 23.92 | 17.79 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-QPSK   | Edge_1RB_Right  | 20.99 | 20.14 | 23.6  | 17.47 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-16QAM  | Outer_Full      | 24.65 | 23.88 | 27.3  | 21.17 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-16QAM  | Inner_Full      | 26.52 | 25.91 | 29.24 | 23.11 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-16QAM  | Inner_1RB_Left  | 26.63 | 25.96 | 29.32 | 23.19 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-16QAM  | Inner_1RB_Right | 26.56 | 25.68 | 29.15 | 23.02 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-16QAM  | Edge_1RB_Left   | 21.36 | 20.72 | 24.06 | 17.93 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-16QAM  | Edge_1RB_Right  | 21.05 | 20.18 | 23.65 | 17.52 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-64QAM  | Outer_Full      | 24.09 | 23.4  | 26.77 | 20.64 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-64QAM  | Inner_Full      | 24.64 | 23.92 | 27.31 | 21.18 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-64QAM  | Inner_1RB_Left  | 24.69 | 23.99 | 27.36 | 21.23 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-64QAM  | Inner_1RB_Right | 24.78 | 23.84 | 27.35 | 21.22 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-64QAM  | Edge_1RB_Left   | 21.44 | 20.58 | 24.04 | 17.91 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-64QAM  | Edge_1RB_Right  | 21.26 | 20.34 | 23.83 | 17.7  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-256QAM | Outer_Full      | 22.11 | 21.45 | 24.8  | 18.67 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-256QAM | Inner_Full      | 22.15 | 21.55 | 24.87 | 18.74 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-256QAM | Inner_1RB_Left  | 22.27 | 21.56 | 24.94 | 18.81 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-       | Inner_1RB_Right | 22.16 | 21.2  | 24.72 | 18.59 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |    |   | 256QAM     |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-256QAM | Edge_1RB_Left   | 21.32 | 20.43 | 23.91 | 17.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 30 | H | DFT-256QAM | Edge_1RB_Right  | 20.89 | 20.07 | 23.51 | 17.38 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-BPSK   | Outer_Full      | 26.18 | 25.68 | 28.95 | 22.82 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-BPSK   | Inner_Full      | 27.71 | 27.21 | 30.48 | 24.35 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-BPSK   | Inner_1RB_Left  | 27.71 | 26.99 | 30.38 | 24.25 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-BPSK   | Inner_1RB_Right | 27.31 | 26.76 | 30.05 | 23.92 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-BPSK   | Edge_1RB_Left   | 21.9  | 20.94 | 24.46 | 18.33 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-BPSK   | Edge_1RB_Right  | 21.43 | 20.75 | 24.11 | 17.98 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-QPSK   | Outer_Full      | 25.72 | 25.06 | 28.41 | 22.28 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-QPSK   | Inner_Full      | 27.66 | 27.16 | 30.43 | 24.3  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-QPSK   | Inner_1RB_Left  | 27.7  | 27.02 | 30.38 | 24.25 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-QPSK   | Inner_1RB_Right | 27.3  | 26.74 | 30.04 | 23.91 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-QPSK   | Edge_1RB_Left   | 21.46 | 20.51 | 24.02 | 17.89 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-QPSK   | Edge_1RB_Right  | 20.96 | 20.31 | 23.66 | 17.53 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-16QAM  | Outer_Full      | 24.7  | 24.07 | 27.41 | 21.28 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-16QAM  | Inner_Full      | 26.64 | 26.06 | 29.37 | 23.24 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-16QAM  | Inner_1RB_Left  | 26.76 | 25.89 | 29.36 | 23.23 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-16QAM  | Inner_1RB_Right | 26.4  | 25.92 | 29.18 | 23.05 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-16QAM  | Edge_1RB_Left   | 21.69 | 20.62 | 24.2  | 18.07 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-16QAM  | Edge_1RB_Right  | 20.99 | 20.44 | 23.74 | 17.61 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-64QAM  | Outer_Full      | 24.21 | 23.65 | 26.95 | 20.82 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-64QAM  | Inner_Full      | 24.64 | 24.12 | 27.4  | 21.27 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-64QAM  | Inner_1RB_Left  | 24.64 | 23.93 | 27.31 | 21.18 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-64QAM  | Inner_1RB_Right | 24.43 | 23.99 | 27.23 | 21.1  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-64QAM  | Edge_1RB_Left   | 21.33 | 20.41 | 23.9  | 17.77 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-64QAM  | Edge_1RB_Right  | 21.02 | 20.46 | 23.76 | 17.63 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-256QAM | Outer_Full      | 22.22 | 21.58 | 24.92 | 18.79 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-256QAM | Inner_Full      | 22.3  | 21.75 | 25.04 | 18.91 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-256QAM | Inner_1RB_Left  | 22.36 | 21.65 | 25.03 | 18.9  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-256QAM | Inner_1RB_Right | 21.87 | 21.46 | 24.68 | 18.55 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-256QAM | Edge_1RB_Left   | 21.46 | 20.39 | 23.97 | 17.84 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | L | DFT-256QAM | Edge_1RB_Right  | 20.79 | 20.34 | 23.58 | 17.45 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-BPSK   | Outer_Full      | 25.77 | 25.41 | 28.6  | 22.47 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-BPSK   | Inner_Full      | 27.61 | 27.19 | 30.41 | 24.28 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-BPSK   | Inner_1RB_Left  | 27.46 | 27.2  | 30.34 | 24.21 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-BPSK   | Inner_1RB_Right | 27.29 | 26.83 | 30.08 | 23.95 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-BPSK   | Edge_1RB_Left   | 21.4  | 21.17 | 24.3  | 18.17 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-BPSK   | Edge_1RB_Right  | 21.28 | 20.75 | 24.03 | 17.9  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-QPSK   | Outer_Full      | 25.54 | 25.06 | 28.32 | 22.19 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-QPSK   | Inner_Full      | 27.66 | 27.17 | 30.44 | 24.31 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-QPSK   | Inner_1RB_Left  | 27.37 | 27.12 | 30.26 | 24.13 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-QPSK   | Inner_1RB_Right | 27.28 | 26.83 | 30.07 | 23.94 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-QPSK   | Edge_1RB_Left   | 21.01 | 20.64 | 23.84 | 17.71 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-QPSK   | Edge_1RB_Right  | 20.78 | 20.31 | 23.56 | 17.43 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-       | Outer_Full      | 24.6  | 24.21 | 27.42 | 21.29 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |    |   | 16QAM      |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-16QAM  | Inner_Full      | 26.52 | 26.07 | 29.31 | 23.18 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-16QAM  | Inner_1RB_Left  | 26.55 | 26.06 | 29.32 | 23.19 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-16QAM  | Inner_1RB_Right | 26.21 | 25.88 | 29.06 | 22.93 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-16QAM  | Edge_1RB_Left   | 21.1  | 20.7  | 23.91 | 17.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-16QAM  | Edge_1RB_Right  | 20.75 | 20.24 | 23.51 | 17.38 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-64QAM  | Outer_Full      | 23.98 | 23.67 | 26.84 | 20.71 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-64QAM  | Inner_Full      | 24.55 | 24.16 | 27.37 | 21.24 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-64QAM  | Inner_1RB_Left  | 24.64 | 24.31 | 27.49 | 21.36 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-64QAM  | Inner_1RB_Right | 24.5  | 23.95 | 27.25 | 21.12 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-64QAM  | Edge_1RB_Left   | 21.18 | 20.84 | 24.02 | 17.89 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-64QAM  | Edge_1RB_Right  | 20.85 | 20.25 | 23.57 | 17.44 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-256QAM | Outer_Full      | 24.13 | 23.65 | 26.91 | 20.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-256QAM | Inner_Full      | 22.08 | 21.85 | 24.97 | 18.84 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-256QAM | Inner_1RB_Left  | 22.13 | 21.72 | 24.94 | 18.81 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-256QAM | Inner_1RB_Right | 21.77 | 21.34 | 24.57 | 18.44 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-256QAM | Edge_1RB_Left   | 21.07 | 20.84 | 23.96 | 17.83 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | M | DFT-256QAM | Edge_1RB_Right  | 20.9  | 20.38 | 23.66 | 17.53 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-BPSK   | Outer_Full      | 26.16 | 25.54 | 28.87 | 22.74 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-BPSK   | Inner_Full      | 27.77 | 27    | 30.41 | 24.28 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-BPSK   | Inner_1RB_Left  | 27.59 | 27.06 | 30.34 | 24.21 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-BPSK   | Inner_1RB_Right | 27.39 | 26.59 | 30.02 | 23.89 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-BPSK   | Edge_1RB_Left   | 21.68 | 21.04 | 24.39 | 18.26 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-BPSK   | Edge_1RB_Right  | 21.46 | 20.59 | 24.05 | 17.92 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-QPSK   | Outer_Full      | 25.73 | 24.93 | 28.36 | 22.23 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-QPSK   | Inner_Full      | 27.75 | 27    | 30.4  | 24.27 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-QPSK   | Inner_1RB_Left  | 27.63 | 27.04 | 30.36 | 24.23 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-QPSK   | Inner_1RB_Right | 27.36 | 26.46 | 29.94 | 23.81 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-QPSK   | Edge_1RB_Left   | 21.13 | 20.52 | 23.84 | 17.71 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-QPSK   | Edge_1RB_Right  | 20.88 | 20.12 | 23.53 | 17.4  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-16QAM  | Outer_Full      | 24.66 | 24.05 | 27.37 | 21.24 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-16QAM  | Inner_Full      | 26.65 | 26.01 | 29.35 | 23.22 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-16QAM  | Inner_1RB_Left  | 26.63 | 26.13 | 29.4  | 23.27 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-16QAM  | Inner_1RB_Right | 26.51 | 25.58 | 29.08 | 22.95 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-16QAM  | Edge_1RB_Left   | 21.38 | 20.73 | 24.08 | 17.95 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-16QAM  | Edge_1RB_Right  | 21.26 | 20.25 | 23.8  | 17.67 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-64QAM  | Outer_Full      | 24.15 | 23.53 | 26.86 | 20.73 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-64QAM  | Inner_Full      | 24.65 | 24.01 | 27.35 | 21.22 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-64QAM  | Inner_1RB_Left  | 24.86 | 24.21 | 27.56 | 21.43 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-64QAM  | Inner_1RB_Right | 24.68 | 23.73 | 27.24 | 21.11 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-64QAM  | Edge_1RB_Left   | 21.32 | 20.73 | 24.05 | 17.92 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-64QAM  | Edge_1RB_Right  | 20.91 | 19.99 | 23.48 | 17.35 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-256QAM | Outer_Full      | 22.07 | 21.33 | 24.73 | 18.6  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-256QAM | Inner_Full      | 22.24 | 21.56 | 24.92 | 18.79 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-256QAM | Inner_1RB_Left  | 22.23 | 21.58 | 24.93 | 18.8  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-       | Inner_1RB_Right | 22.08 | 21.1  | 24.63 | 18.5  | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |    |   | 256QAM     |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-256QAM | Edge_1RB_Left   | 21.08 | 20.64 | 23.88 | 17.75 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 40 | H | DFT-256QAM | Edge_1RB_Right  | 21.09 | 20.04 | 23.6  | 17.47 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-BPSK   | Outer_Full      | 26.42 | 25.71 | 29.09 | 22.96 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-BPSK   | Inner_Full      | 27.94 | 27.42 | 30.7  | 24.57 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-BPSK   | Inner_1RB_Left  | 27.91 | 27.15 | 30.55 | 24.42 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-BPSK   | Inner_1RB_Right | 27.49 | 26.9  | 30.22 | 24.09 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-BPSK   | Edge_1RB_Left   | 22.07 | 21.23 | 24.68 | 18.55 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-BPSK   | Edge_1RB_Right  | 21.55 | 21.01 | 24.3  | 18.17 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-QPSK   | Outer_Full      | 25.86 | 25.25 | 28.58 | 22.45 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-QPSK   | Inner_Full      | 27.91 | 27.37 | 30.66 | 24.53 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-QPSK   | Inner_1RB_Left  | 27.87 | 27.14 | 30.53 | 24.4  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-QPSK   | Inner_1RB_Right | 27.43 | 26.91 | 30.19 | 24.06 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-QPSK   | Edge_1RB_Left   | 21.65 | 20.72 | 24.22 | 18.09 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-QPSK   | Edge_1RB_Right  | 21.11 | 20.45 | 23.8  | 17.67 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-16QAM  | Outer_Full      | 24.92 | 24.32 | 27.64 | 21.51 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-16QAM  | Inner_Full      | 26.8  | 26.37 | 29.6  | 23.47 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-16QAM  | Inner_1RB_Left  | 27.05 | 26.24 | 29.67 | 23.54 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-16QAM  | Inner_1RB_Right | 26.54 | 26.03 | 29.3  | 23.17 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-16QAM  | Edge_1RB_Left   | 21.79 | 20.86 | 24.36 | 18.23 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-16QAM  | Edge_1RB_Right  | 21.16 | 20.55 | 23.88 | 17.75 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-64QAM  | Outer_Full      | 24.34 | 23.85 | 27.11 | 20.98 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-64QAM  | Inner_Full      | 24.99 | 24.33 | 27.68 | 21.55 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-64QAM  | Inner_1RB_Left  | 25.21 | 24.37 | 27.82 | 21.69 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-64QAM  | Inner_1RB_Right | 24.61 | 24.03 | 27.34 | 21.21 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-64QAM  | Edge_1RB_Left   | 21.75 | 20.72 | 24.28 | 18.15 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-64QAM  | Edge_1RB_Right  | 21.12 | 20.5  | 23.83 | 17.7  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-256QAM | Outer_Full      | 22.45 | 21.85 | 25.17 | 19.04 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-256QAM | Inner_Full      | 22.5  | 21.94 | 25.24 | 19.11 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-256QAM | Inner_1RB_Left  | 22.57 | 21.79 | 25.21 | 19.08 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-256QAM | Inner_1RB_Right | 21.97 | 21.49 | 24.75 | 18.62 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-256QAM | Edge_1RB_Left   | 21.74 | 20.82 | 24.31 | 18.18 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | L | DFT-256QAM | Edge_1RB_Right  | 21.23 | 20.58 | 23.93 | 17.8  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-BPSK   | Outer_Full      | 26.13 | 25.74 | 28.95 | 22.82 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-BPSK   | Inner_Full      | 27.76 | 27.37 | 30.58 | 24.45 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-BPSK   | Inner_1RB_Left  | 27.55 | 27.36 | 30.46 | 24.33 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-BPSK   | Inner_1RB_Right | 27.29 | 26.79 | 30.05 | 23.92 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-BPSK   | Edge_1RB_Left   | 21.55 | 21.3  | 24.44 | 18.31 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-BPSK   | Edge_1RB_Right  | 21.31 | 20.86 | 24.1  | 17.97 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-QPSK   | Outer_Full      | 25.58 | 25.28 | 28.44 | 22.31 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-QPSK   | Inner_Full      | 27.69 | 27.33 | 30.52 | 24.39 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-QPSK   | Inner_1RB_Left  | 27.54 | 27.37 | 30.46 | 24.33 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-QPSK   | Inner_1RB_Right | 27.21 | 26.8  | 30.02 | 23.89 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-QPSK   | Edge_1RB_Left   | 21.05 | 21    | 24.04 | 17.91 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-QPSK   | Edge_1RB_Right  | 20.9  | 20.35 | 23.65 | 17.52 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-       | Outer_Full      | 24.64 | 24.24 | 27.46 | 21.33 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |    |   | 16QAM      |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-16QAM  | Inner_Full      | 26.63 | 26.32 | 29.49 | 23.36 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-16QAM  | Inner_1RB_Left  | 26.51 | 26.37 | 29.45 | 23.32 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-16QAM  | Inner_1RB_Right | 26.28 | 25.82 | 29.07 | 22.94 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-16QAM  | Edge_1RB_Left   | 21.08 | 20.88 | 23.99 | 17.86 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-16QAM  | Edge_1RB_Right  | 20.97 | 20.46 | 23.74 | 17.61 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-64QAM  | Outer_Full      | 24.11 | 23.7  | 26.92 | 20.79 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-64QAM  | Inner_Full      | 24.82 | 24.29 | 27.57 | 21.44 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-64QAM  | Inner_1RB_Left  | 24.72 | 24.44 | 27.6  | 21.47 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-64QAM  | Inner_1RB_Right | 24.57 | 24.03 | 27.32 | 21.19 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-64QAM  | Edge_1RB_Left   | 20.96 | 20.89 | 23.93 | 17.8  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-64QAM  | Edge_1RB_Right  | 20.84 | 20.35 | 23.61 | 17.48 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-256QAM | Outer_Full      | 22.2  | 21.8  | 25.02 | 18.89 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-256QAM | Inner_Full      | 22.25 | 21.96 | 25.12 | 18.99 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-256QAM | Inner_1RB_Left  | 21.98 | 21.82 | 24.91 | 18.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-256QAM | Inner_1RB_Right | 22.04 | 21.4  | 24.74 | 18.61 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-256QAM | Edge_1RB_Left   | 20.97 | 20.87 | 23.93 | 17.8  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | M | DFT-256QAM | Edge_1RB_Right  | 21.05 | 20.37 | 23.73 | 17.6  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-BPSK   | Outer_Full      | 26.22 | 25.55 | 28.91 | 22.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-BPSK   | Inner_Full      | 27.87 | 27.17 | 30.55 | 24.42 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-BPSK   | Inner_1RB_Left  | 27.73 | 27.18 | 30.47 | 24.34 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-BPSK   | Inner_1RB_Right | 27.5  | 26.63 | 30.1  | 23.97 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-BPSK   | Edge_1RB_Left   | 21.73 | 21.2  | 24.48 | 18.35 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-BPSK   | Edge_1RB_Right  | 21.56 | 20.47 | 24.06 | 17.93 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-QPSK   | Outer_Full      | 25.74 | 25    | 28.4  | 22.27 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-QPSK   | Inner_Full      | 27.78 | 27.2  | 30.51 | 24.38 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-QPSK   | Inner_1RB_Left  | 27.59 | 27.19 | 30.41 | 24.28 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-QPSK   | Inner_1RB_Right | 27.48 | 26.61 | 30.08 | 23.95 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-QPSK   | Edge_1RB_Left   | 21.18 | 20.77 | 23.99 | 17.86 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-QPSK   | Edge_1RB_Right  | 21.02 | 20.08 | 23.59 | 17.46 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-16QAM  | Outer_Full      | 24.73 | 24.15 | 27.46 | 21.33 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-16QAM  | Inner_Full      | 26.76 | 25.95 | 29.38 | 23.25 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-16QAM  | Inner_1RB_Left  | 26.73 | 26.32 | 29.54 | 23.41 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-16QAM  | Inner_1RB_Right | 26.58 | 25.64 | 29.14 | 23.01 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-16QAM  | Edge_1RB_Left   | 21.26 | 20.91 | 24.1  | 17.97 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-16QAM  | Edge_1RB_Right  | 21.35 | 20.22 | 23.84 | 17.71 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-64QAM  | Outer_Full      | 24.21 | 23.5  | 26.88 | 20.75 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-64QAM  | Inner_Full      | 24.89 | 24.07 | 27.51 | 21.38 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-64QAM  | Inner_1RB_Left  | 24.87 | 24.4  | 27.66 | 21.53 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-64QAM  | Inner_1RB_Right | 24.7  | 23.77 | 27.27 | 21.14 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-64QAM  | Edge_1RB_Left   | 21.14 | 20.77 | 23.97 | 17.84 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-64QAM  | Edge_1RB_Right  | 21.03 | 20.02 | 23.56 | 17.43 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-256QAM | Outer_Full      | 22.31 | 21.62 | 24.99 | 18.86 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-256QAM | Inner_Full      | 22.31 | 21.62 | 24.99 | 18.86 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-256QAM | Inner_1RB_Left  | 22.13 | 21.69 | 24.93 | 18.8  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-       | Inner_1RB_Right | 21.98 | 21.05 | 24.55 | 18.42 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |    |   | 256QAM     |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-256QAM | Edge_1RB_Left   | 21.06 | 20.61 | 23.85 | 17.72 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 50 | H | DFT-256QAM | Edge_1RB_Right  | 21.25 | 20.17 | 23.75 | 17.62 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-BPSK   | Outer_Full      | 26.25 | 25.49 | 28.9  | 22.77 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-BPSK   | Inner_Full      | 27.7  | 27.06 | 30.4  | 24.27 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-BPSK   | Inner_1RB_Left  | 27.85 | 26.94 | 30.43 | 24.3  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-BPSK   | Inner_1RB_Right | 27.34 | 26.6  | 30    | 23.87 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-BPSK   | Edge_1RB_Left   | 21.86 | 20.9  | 24.42 | 18.29 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-BPSK   | Edge_1RB_Right  | 21.27 | 20.46 | 23.9  | 17.77 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-QPSK   | Outer_Full      | 25.7  | 25.01 | 28.38 | 22.25 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-QPSK   | Inner_Full      | 27.62 | 26.92 | 30.3  | 24.17 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-QPSK   | Inner_1RB_Left  | 27.77 | 26.93 | 30.38 | 24.25 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-QPSK   | Inner_1RB_Right | 27.31 | 26.54 | 29.96 | 23.83 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-QPSK   | Edge_1RB_Left   | 21.34 | 20.36 | 23.89 | 17.76 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-QPSK   | Edge_1RB_Right  | 20.77 | 20.04 | 23.43 | 17.3  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-16QAM  | Outer_Full      | 24.54 | 23.88 | 27.23 | 21.1  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-16QAM  | Inner_Full      | 26.51 | 25.84 | 29.2  | 23.07 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-16QAM  | Inner_1RB_Left  | 26.79 | 25.96 | 29.4  | 23.27 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-16QAM  | Inner_1RB_Right | 26.31 | 25.62 | 28.99 | 22.86 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-16QAM  | Edge_1RB_Left   | 21.55 | 20.58 | 24.11 | 17.98 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-16QAM  | Edge_1RB_Right  | 20.97 | 20.16 | 23.6  | 17.47 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-64QAM  | Outer_Full      | 24.11 | 23.34 | 26.75 | 20.62 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-64QAM  | Inner_Full      | 24.55 | 23.92 | 27.26 | 21.13 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-64QAM  | Inner_1RB_Left  | 24.75 | 23.92 | 27.36 | 21.23 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-64QAM  | Inner_1RB_Right | 24.46 | 23.58 | 27.05 | 20.92 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-64QAM  | Edge_1RB_Left   | 21.39 | 20.42 | 23.95 | 17.82 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-64QAM  | Edge_1RB_Right  | 21.01 | 20.14 | 23.6  | 17.47 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-256QAM | Outer_Full      | 22.1  | 21.37 | 24.76 | 18.63 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-256QAM | Inner_Full      | 22.12 | 21.41 | 24.79 | 18.66 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-256QAM | Inner_1RB_Left  | 22.32 | 21.43 | 24.91 | 18.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-256QAM | Inner_1RB_Right | 21.88 | 21.02 | 24.48 | 18.35 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-256QAM | Edge_1RB_Left   | 21.47 | 20.51 | 24.02 | 17.89 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | L | DFT-256QAM | Edge_1RB_Right  | 21.04 | 20.07 | 23.59 | 17.46 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-BPSK   | Outer_Full      | 25.99 | 25.56 | 28.79 | 22.66 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-BPSK   | Inner_Full      | 27.53 | 27.05 | 30.31 | 24.18 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-BPSK   | Inner_1RB_Left  | 27.39 | 27.2  | 30.31 | 24.18 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-BPSK   | Inner_1RB_Right | 27.2  | 26.63 | 29.94 | 23.81 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-BPSK   | Edge_1RB_Left   | 21.35 | 21.12 | 24.25 | 18.12 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-BPSK   | Edge_1RB_Right  | 21.05 | 20.64 | 23.86 | 17.73 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-QPSK   | Outer_Full      | 25.44 | 25.07 | 28.27 | 22.14 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-QPSK   | Inner_Full      | 27.49 | 27.02 | 30.27 | 24.14 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-QPSK   | Inner_1RB_Left  | 27.5  | 27.3  | 30.41 | 24.28 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-QPSK   | Inner_1RB_Right | 27.19 | 26.65 | 29.94 | 23.81 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-QPSK   | Edge_1RB_Left   | 20.85 | 20.68 | 23.78 | 17.65 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-QPSK   | Edge_1RB_Right  | 20.65 | 20.14 | 23.41 | 17.28 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-       | Outer_Full      | 24.41 | 23.94 | 27.19 | 21.06 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |    |   | 16QAM      |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-16QAM  | Inner_Full      | 26.53 | 26.04 | 29.3  | 23.17 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-16QAM  | Inner_1RB_Left  | 26.38 | 26.07 | 29.24 | 23.11 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-16QAM  | Inner_1RB_Right | 26.18 | 25.66 | 28.94 | 22.81 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-16QAM  | Edge_1RB_Left   | 21.1  | 20.92 | 24.02 | 17.89 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-16QAM  | Edge_1RB_Right  | 20.74 | 20.26 | 23.52 | 17.39 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-64QAM  | Outer_Full      | 23.98 | 23.53 | 26.77 | 20.64 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-64QAM  | Inner_Full      | 24.53 | 24.02 | 27.29 | 21.16 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-64QAM  | Inner_1RB_Left  | 24.56 | 24.34 | 27.46 | 21.33 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-64QAM  | Inner_1RB_Right | 24.12 | 23.62 | 26.89 | 20.76 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-64QAM  | Edge_1RB_Left   | 20.99 | 20.73 | 23.87 | 17.74 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-64QAM  | Edge_1RB_Right  | 20.51 | 20.06 | 23.3  | 17.17 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-256QAM | Outer_Full      | 23.75 | 23.4  | 26.59 | 20.46 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-256QAM | Inner_Full      | 21.98 | 21.59 | 24.8  | 18.67 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-256QAM | Inner_1RB_Left  | 21.82 | 21.67 | 24.75 | 18.62 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-256QAM | Inner_1RB_Right | 21.79 | 21.23 | 24.53 | 18.4  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-256QAM | Edge_1RB_Left   | 20.84 | 20.67 | 23.77 | 17.64 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | M | DFT-256QAM | Edge_1RB_Right  | 20.66 | 20.05 | 23.38 | 17.25 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-BPSK   | Outer_Full      | 26.15 | 25.54 | 28.87 | 22.74 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-BPSK   | Inner_Full      | 27.72 | 26.93 | 30.35 | 24.22 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-BPSK   | Inner_1RB_Left  | 27.44 | 27.14 | 30.3  | 24.17 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-BPSK   | Inner_1RB_Right | 27.35 | 26.49 | 29.95 | 23.82 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-BPSK   | Edge_1RB_Left   | 21.54 | 20.99 | 24.28 | 18.15 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-BPSK   | Edge_1RB_Right  | 21.43 | 20.29 | 23.91 | 17.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-QPSK   | Outer_Full      | 25.67 | 24.98 | 28.35 | 22.22 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-QPSK   | Inner_Full      | 27.65 | 26.91 | 30.3  | 24.17 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-QPSK   | Inner_1RB_Left  | 27.6  | 27.17 | 30.4  | 24.27 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-QPSK   | Inner_1RB_Right | 27.39 | 26.48 | 29.97 | 23.84 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-QPSK   | Edge_1RB_Left   | 21.03 | 20.55 | 23.8  | 17.67 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-QPSK   | Edge_1RB_Right  | 20.85 | 19.89 | 23.4  | 17.27 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-16QAM  | Outer_Full      | 24.55 | 23.82 | 27.21 | 21.08 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-16QAM  | Inner_Full      | 26.52 | 25.83 | 29.2  | 23.07 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-16QAM  | Inner_1RB_Left  | 26.43 | 26.16 | 29.31 | 23.18 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-16QAM  | Inner_1RB_Right | 26.14 | 25.42 | 28.81 | 22.68 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-16QAM  | Edge_1RB_Left   | 21.18 | 20.77 | 23.99 | 17.86 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-16QAM  | Edge_1RB_Right  | 21.13 | 20.08 | 23.64 | 17.51 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-64QAM  | Outer_Full      | 24.13 | 23.4  | 26.79 | 20.66 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-64QAM  | Inner_Full      | 24.49 | 23.99 | 27.26 | 21.13 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-64QAM  | Inner_1RB_Left  | 24.57 | 24.16 | 27.38 | 21.25 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-64QAM  | Inner_1RB_Right | 24.25 | 23.48 | 26.89 | 20.76 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-64QAM  | Edge_1RB_Left   | 21.31 | 20.85 | 24.09 | 17.96 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-64QAM  | Edge_1RB_Right  | 21.04 | 20.17 | 23.64 | 17.51 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-256QAM | Outer_Full      | 22.12 | 21.38 | 24.78 | 18.65 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-256QAM | Inner_Full      | 22.16 | 21.37 | 24.79 | 18.66 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-256QAM | Inner_1RB_Left  | 21.96 | 21.64 | 24.81 | 18.68 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-       | Inner_1RB_Right | 21.91 | 20.94 | 24.46 | 18.33 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |    |   | 256QAM     |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-256QAM | Edge_1RB_Left   | 21.02 | 20.65 | 23.85 | 17.72 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 60 | H | DFT-256QAM | Edge_1RB_Right  | 20.97 | 19.87 | 23.46 | 17.33 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-BPSK   | Outer_Full      | 26.21 | 25.5  | 28.88 | 22.75 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-BPSK   | Inner_Full      | 27.76 | 27.08 | 30.44 | 24.31 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-BPSK   | Inner_1RB_Left  | 27.76 | 27.01 | 30.41 | 24.28 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-BPSK   | Inner_1RB_Right | 27.08 | 26.57 | 29.84 | 23.71 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-BPSK   | Edge_1RB_Left   | 22.01 | 21.09 | 24.59 | 18.46 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-BPSK   | Edge_1RB_Right  | 21.36 | 20.63 | 24.02 | 17.89 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-QPSK   | Outer_Full      | 25.77 | 25.02 | 28.42 | 22.29 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-QPSK   | Inner_Full      | 27.74 | 27.03 | 30.41 | 24.28 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-QPSK   | Inner_1RB_Left  | 27.78 | 27.01 | 30.43 | 24.3  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-QPSK   | Inner_1RB_Right | 27.1  | 26.56 | 29.85 | 23.72 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-QPSK   | Edge_1RB_Left   | 21.49 | 20.56 | 24.06 | 17.93 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-QPSK   | Edge_1RB_Right  | 20.81 | 20.18 | 23.52 | 17.39 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-16QAM  | Outer_Full      | 24.8  | 24.08 | 27.46 | 21.33 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-16QAM  | Inner_Full      | 26.63 | 26.02 | 29.35 | 23.22 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-16QAM  | Inner_1RB_Left  | 26.82 | 26.08 | 29.48 | 23.35 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-16QAM  | Inner_1RB_Right | 26.29 | 25.57 | 28.96 | 22.83 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-16QAM  | Edge_1RB_Left   | 21.7  | 20.7  | 24.24 | 18.11 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-16QAM  | Edge_1RB_Right  | 20.75 | 20.02 | 23.41 | 17.28 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-64QAM  | Outer_Full      | 24.28 | 23.58 | 26.96 | 20.83 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-64QAM  | Inner_Full      | 24.69 | 24.13 | 27.43 | 21.3  | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-64QAM  | Inner_1RB_Left  | 24.88 | 24.01 | 27.47 | 21.34 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-64QAM  | Inner_1RB_Right | 24.41 | 23.73 | 27.09 | 20.96 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-64QAM  | Edge_1RB_Left   | 21.7  | 20.64 | 24.21 | 18.08 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-64QAM  | Edge_1RB_Right  | 20.86 | 20.08 | 23.5  | 17.37 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-256QAM | Outer_Full      | 22.36 | 21.61 | 25.01 | 18.88 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-256QAM | Inner_Full      | 22.28 | 21.5  | 24.92 | 18.79 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-256QAM | Inner_1RB_Left  | 22.47 | 21.71 | 25.12 | 18.99 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-256QAM | Inner_1RB_Right | 21.93 | 21.14 | 24.56 | 18.43 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-256QAM | Edge_1RB_Left   | 21.5  | 20.59 | 24.08 | 17.95 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | L | DFT-256QAM | Edge_1RB_Right  | 20.78 | 20.03 | 23.43 | 17.3  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-BPSK   | Outer_Full      | 26.02 | 25.65 | 28.85 | 22.72 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-BPSK   | Inner_Full      | 27.64 | 27.18 | 30.43 | 24.3  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-BPSK   | Inner_1RB_Left  | 27.49 | 27.22 | 30.37 | 24.24 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-BPSK   | Inner_1RB_Right | 26.97 | 26.57 | 29.78 | 23.65 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-BPSK   | Edge_1RB_Left   | 21.53 | 21.23 | 24.39 | 18.26 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-BPSK   | Edge_1RB_Right  | 20.94 | 20.61 | 23.79 | 17.66 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-QPSK   | Outer_Full      | 25.57 | 25.17 | 28.38 | 22.25 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-QPSK   | Inner_Full      | 27.58 | 27.14 | 30.38 | 24.25 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-QPSK   | Inner_1RB_Left  | 27.49 | 27.14 | 30.33 | 24.2  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-QPSK   | Inner_1RB_Right | 26.91 | 26.56 | 29.75 | 23.62 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-QPSK   | Edge_1RB_Left   | 21.06 | 20.68 | 23.89 | 17.76 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-QPSK   | Edge_1RB_Right  | 20.5  | 20.06 | 23.29 | 17.16 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-       | Outer_Full      | 24.54 | 24.14 | 27.36 | 21.23 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |    |   | 16QAM      |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-16QAM  | Inner_Full      | 26.44 | 26.07 | 29.27 | 23.14 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-16QAM  | Inner_1RB_Left  | 26.51 | 26.24 | 29.39 | 23.26 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-16QAM  | Inner_1RB_Right | 25.91 | 25.6  | 28.77 | 22.64 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-16QAM  | Edge_1RB_Left   | 21.14 | 20.8  | 23.98 | 17.85 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-16QAM  | Edge_1RB_Right  | 20.65 | 20.19 | 23.44 | 17.31 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-64QAM  | Outer_Full      | 24.04 | 23.73 | 26.9  | 20.77 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-64QAM  | Inner_Full      | 24.53 | 24.13 | 27.35 | 21.22 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-64QAM  | Inner_1RB_Left  | 24.65 | 24.33 | 27.5  | 21.37 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-64QAM  | Inner_1RB_Right | 24.11 | 23.62 | 26.88 | 20.75 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-64QAM  | Edge_1RB_Left   | 20.95 | 20.69 | 23.83 | 17.7  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-64QAM  | Edge_1RB_Right  | 20.37 | 19.96 | 23.18 | 17.05 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-256QAM | Outer_Full      | 22.07 | 21.71 | 24.91 | 18.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-256QAM | Inner_Full      | 22.14 | 21.63 | 24.9  | 18.77 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-256QAM | Inner_1RB_Left  | 21.92 | 21.7  | 24.82 | 18.69 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-256QAM | Inner_1RB_Right | 21.47 | 21    | 24.25 | 18.12 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-256QAM | Edge_1RB_Left   | 21.06 | 20.77 | 23.93 | 17.8  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | M | DFT-256QAM | Edge_1RB_Right  | 20.48 | 20.15 | 23.33 | 17.2  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-BPSK   | Outer_Full      | 26.37 | 25.49 | 28.96 | 22.83 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-BPSK   | Inner_Full      | 27.93 | 27.09 | 30.54 | 24.41 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-BPSK   | Inner_1RB_Left  | 27.8  | 27.23 | 30.53 | 24.4  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-BPSK   | Inner_1RB_Right | 27.37 | 26.52 | 29.98 | 23.85 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-BPSK   | Edge_1RB_Left   | 21.72 | 21.26 | 24.51 | 18.38 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-BPSK   | Edge_1RB_Right  | 21.41 | 20.52 | 24    | 17.87 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-QPSK   | Outer_Full      | 25.83 | 25.05 | 28.47 | 22.34 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-QPSK   | Inner_Full      | 27.89 | 26.96 | 30.46 | 24.33 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-QPSK   | Inner_1RB_Left  | 27.77 | 27.15 | 30.48 | 24.35 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-QPSK   | Inner_1RB_Right | 27.43 | 26.47 | 29.99 | 23.86 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-QPSK   | Edge_1RB_Left   | 21.36 | 20.85 | 24.12 | 17.99 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-QPSK   | Edge_1RB_Right  | 21.04 | 20.04 | 23.58 | 17.45 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-16QAM  | Outer_Full      | 24.89 | 24.12 | 27.53 | 21.4  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-16QAM  | Inner_Full      | 26.83 | 25.99 | 29.44 | 23.31 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-16QAM  | Inner_1RB_Left  | 26.91 | 26.36 | 29.65 | 23.52 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-16QAM  | Inner_1RB_Right | 26.53 | 25.48 | 29.05 | 22.92 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-16QAM  | Edge_1RB_Left   | 21.47 | 20.96 | 24.23 | 18.1  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-16QAM  | Edge_1RB_Right  | 21.13 | 20.24 | 23.72 | 17.59 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-64QAM  | Outer_Full      | 24.39 | 23.6  | 27.02 | 20.89 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-64QAM  | Inner_Full      | 24.96 | 24    | 27.52 | 21.39 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-64QAM  | Inner_1RB_Left  | 25    | 24.43 | 27.74 | 21.61 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-64QAM  | Inner_1RB_Right | 24.73 | 23.75 | 27.27 | 21.14 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-64QAM  | Edge_1RB_Left   | 21.32 | 20.76 | 24.06 | 17.93 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-64QAM  | Edge_1RB_Right  | 21.1  | 20.09 | 23.64 | 17.51 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-256QAM | Outer_Full      | 21.95 | 21.17 | 24.59 | 18.46 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-256QAM | Inner_Full      | 22.43 | 21.46 | 24.98 | 18.85 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-256QAM | Inner_1RB_Left  | 22.16 | 21.71 | 24.95 | 18.82 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-       | Inner_1RB_Right | 21.83 | 21.01 | 24.45 | 18.32 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |    |   | 256QAM     |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-256QAM | Edge_1RB_Left   | 21.36 | 20.85 | 24.12 | 17.99 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 70 | H | DFT-256QAM | Edge_1RB_Right  | 20.96 | 20.02 | 23.52 | 17.39 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-BPSK   | Outer_Full      | 26.07 | 25.48 | 28.8  | 22.67 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-BPSK   | Inner_Full      | 27.74 | 27.02 | 30.41 | 24.28 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-BPSK   | Inner_1RB_Left  | 27.85 | 27.01 | 30.46 | 24.33 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-BPSK   | Inner_1RB_Right | 26.94 | 26.57 | 29.77 | 23.64 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-BPSK   | Edge_1RB_Left   | 21.95 | 20.97 | 24.49 | 18.36 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-BPSK   | Edge_1RB_Right  | 21.01 | 20.5  | 23.77 | 17.64 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-QPSK   | Outer_Full      | 25.62 | 25.04 | 28.35 | 22.22 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-QPSK   | Inner_Full      | 27.7  | 26.97 | 30.36 | 24.23 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-QPSK   | Inner_1RB_Left  | 27.75 | 26.9  | 30.35 | 24.22 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-QPSK   | Inner_1RB_Right | 26.81 | 26.54 | 29.69 | 23.56 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-QPSK   | Edge_1RB_Left   | 21.48 | 20.59 | 24.07 | 17.94 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-QPSK   | Edge_1RB_Right  | 20.55 | 20.05 | 23.32 | 17.19 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-16QAM  | Outer_Full      | 24.65 | 23.99 | 27.34 | 21.21 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-16QAM  | Inner_Full      | 26.63 | 25.89 | 29.29 | 23.16 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-16QAM  | Inner_1RB_Left  | 26.98 | 26.09 | 29.57 | 23.44 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-16QAM  | Inner_1RB_Right | 26.06 | 25.7  | 28.89 | 22.76 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-16QAM  | Edge_1RB_Left   | 21.61 | 20.55 | 24.12 | 17.99 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-16QAM  | Edge_1RB_Right  | 20.69 | 20.19 | 23.46 | 17.33 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-64QAM  | Outer_Full      | 24.14 | 23.48 | 26.83 | 20.7  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-64QAM  | Inner_Full      | 24.71 | 23.96 | 27.36 | 21.23 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-64QAM  | Inner_1RB_Left  | 24.85 | 24.03 | 27.47 | 21.34 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-64QAM  | Inner_1RB_Right | 23.92 | 23.57 | 26.76 | 20.63 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-64QAM  | Edge_1RB_Left   | 21.35 | 20.39 | 23.91 | 17.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-64QAM  | Edge_1RB_Right  | 20.71 | 20.13 | 23.44 | 17.31 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-256QAM | Outer_Full      | 22.19 | 21.55 | 24.89 | 18.76 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-256QAM | Inner_Full      | 22.23 | 21.49 | 24.88 | 18.75 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-256QAM | Inner_1RB_Left  | 22.36 | 21.54 | 24.98 | 18.85 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-256QAM | Inner_1RB_Right | 21.38 | 21.05 | 24.23 | 18.1  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-256QAM | Edge_1RB_Left   | 21.38 | 20.32 | 23.89 | 17.76 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | L | DFT-256QAM | Edge_1RB_Right  | 20.35 | 19.95 | 23.16 | 17.03 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-BPSK   | Outer_Full      | 26    | 25.64 | 28.83 | 22.7  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-BPSK   | Inner_Full      | 27.64 | 27.21 | 30.44 | 24.31 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-BPSK   | Inner_1RB_Left  | 27.55 | 27.16 | 30.37 | 24.24 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-BPSK   | Inner_1RB_Right | 26.92 | 26.47 | 29.71 | 23.58 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-BPSK   | Edge_1RB_Left   | 21.54 | 21.32 | 24.44 | 18.31 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-BPSK   | Edge_1RB_Right  | 20.87 | 20.48 | 23.69 | 17.56 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-QPSK   | Outer_Full      | 25.44 | 25.09 | 28.28 | 22.15 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-QPSK   | Inner_Full      | 27.57 | 27.13 | 30.37 | 24.24 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-QPSK   | Inner_1RB_Left  | 27.54 | 27.23 | 30.39 | 24.26 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-QPSK   | Inner_1RB_Right | 26.89 | 26.42 | 29.67 | 23.54 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-QPSK   | Edge_1RB_Left   | 20.99 | 20.67 | 23.84 | 17.71 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-QPSK   | Edge_1RB_Right  | 20.47 | 19.98 | 23.24 | 17.11 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-       | Outer_Full      | 24.4  | 24.13 | 27.28 | 21.15 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |    |   | 16QAM      |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-16QAM  | Inner_Full      | 26.43 | 26.14 | 29.3  | 23.17 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-16QAM  | Inner_1RB_Left  | 26.6  | 26.34 | 29.48 | 23.35 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-16QAM  | Inner_1RB_Right | 25.94 | 25.5  | 28.74 | 22.61 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-16QAM  | Edge_1RB_Left   | 21.18 | 20.9  | 24.05 | 17.92 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-16QAM  | Edge_1RB_Right  | 20.58 | 20.15 | 23.38 | 17.25 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-64QAM  | Outer_Full      | 23.98 | 23.61 | 26.81 | 20.68 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-64QAM  | Inner_Full      | 24.57 | 24.15 | 27.37 | 21.24 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-64QAM  | Inner_1RB_Left  | 24.49 | 24.36 | 27.44 | 21.31 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-64QAM  | Inner_1RB_Right | 23.96 | 23.61 | 26.8  | 20.67 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-64QAM  | Edge_1RB_Left   | 21.21 | 20.97 | 24.1  | 17.97 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-64QAM  | Edge_1RB_Right  | 20.49 | 20.01 | 23.26 | 17.13 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-256QAM | Outer_Full      | 21.98 | 21.76 | 24.88 | 18.75 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-256QAM | Inner_Full      | 22.02 | 21.69 | 24.87 | 18.74 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-256QAM | Inner_1RB_Left  | 22.04 | 21.69 | 24.88 | 18.75 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-256QAM | Inner_1RB_Right | 21.36 | 20.89 | 24.14 | 18.01 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-256QAM | Edge_1RB_Left   | 21    | 20.63 | 23.83 | 17.7  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | M | DFT-256QAM | Edge_1RB_Right  | 20.51 | 19.94 | 23.24 | 17.11 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-BPSK   | Outer_Full      | 26.28 | 25.49 | 28.91 | 22.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-BPSK   | Inner_Full      | 27.86 | 27.16 | 30.53 | 24.4  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-BPSK   | Inner_1RB_Left  | 27.75 | 27.38 | 30.58 | 24.45 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-BPSK   | Inner_1RB_Right | 27.4  | 26.49 | 29.98 | 23.85 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-BPSK   | Edge_1RB_Left   | 21.59 | 21.3  | 24.46 | 18.33 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-BPSK   | Edge_1RB_Right  | 21.38 | 20.45 | 23.95 | 17.82 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-QPSK   | Outer_Full      | 25.76 | 25.02 | 28.42 | 22.29 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-QPSK   | Inner_Full      | 27.89 | 27.01 | 30.48 | 24.35 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-QPSK   | Inner_1RB_Left  | 27.68 | 27.39 | 30.55 | 24.42 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-QPSK   | Inner_1RB_Right | 27.36 | 26.38 | 29.9  | 23.77 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-QPSK   | Edge_1RB_Left   | 21.17 | 20.84 | 24.02 | 17.89 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-QPSK   | Edge_1RB_Right  | 20.97 | 19.94 | 23.5  | 17.37 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-16QAM  | Outer_Full      | 24.7  | 23.99 | 27.37 | 21.24 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-16QAM  | Inner_Full      | 26.83 | 26.04 | 29.46 | 23.33 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-16QAM  | Inner_1RB_Left  | 26.64 | 26.46 | 29.56 | 23.43 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-16QAM  | Inner_1RB_Right | 26.46 | 25.5  | 29.02 | 22.89 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-16QAM  | Edge_1RB_Left   | 21.11 | 20.8  | 23.97 | 17.84 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-16QAM  | Edge_1RB_Right  | 21    | 19.98 | 23.53 | 17.4  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-64QAM  | Outer_Full      | 24.2  | 23.57 | 26.91 | 20.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-64QAM  | Inner_Full      | 24.8  | 24.08 | 27.46 | 21.33 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-64QAM  | Inner_1RB_Left  | 24.72 | 24.38 | 27.56 | 21.43 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-64QAM  | Inner_1RB_Right | 24.57 | 23.55 | 27.1  | 20.97 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-64QAM  | Edge_1RB_Left   | 21.2  | 20.84 | 24.03 | 17.9  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-64QAM  | Edge_1RB_Right  | 20.98 | 19.88 | 23.47 | 17.34 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-256QAM | Outer_Full      | 22.3  | 21.48 | 24.92 | 18.79 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-256QAM | Inner_Full      | 22.4  | 21.54 | 25    | 18.87 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-256QAM | Inner_1RB_Left  | 22.12 | 21.82 | 24.98 | 18.85 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-       | Inner_1RB_Right | 21.88 | 20.9  | 24.43 | 18.3  | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |    |   | 256QAM     |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-256QAM | Edge_1RB_Left   | 21.19 | 20.94 | 24.08 | 17.95 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 80 | H | DFT-256QAM | Edge_1RB_Right  | 20.78 | 19.74 | 23.3  | 17.17 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-BPSK   | Outer_Full      | 26.13 | 25.48 | 28.83 | 22.7  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-BPSK   | Inner_Full      | 27.72 | 27.07 | 30.42 | 24.29 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-BPSK   | Inner_1RB_Left  | 27.92 | 27.07 | 30.52 | 24.39 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-BPSK   | Inner_1RB_Right | 26.95 | 26.48 | 29.74 | 23.61 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-BPSK   | Edge_1RB_Left   | 22.02 | 21.11 | 24.6  | 18.47 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-BPSK   | Edge_1RB_Right  | 21.05 | 20.51 | 23.8  | 17.67 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-QPSK   | Outer_Full      | 25.67 | 25    | 28.36 | 22.23 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-QPSK   | Inner_Full      | 27.58 | 27.02 | 30.32 | 24.19 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-QPSK   | Inner_1RB_Left  | 27.85 | 27.04 | 30.48 | 24.35 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-QPSK   | Inner_1RB_Right | 26.81 | 26.47 | 29.66 | 23.53 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-QPSK   | Edge_1RB_Left   | 21.47 | 20.54 | 24.04 | 17.91 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-QPSK   | Edge_1RB_Right  | 20.51 | 20.06 | 23.31 | 17.18 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-16QAM  | Outer_Full      | 24.54 | 24.07 | 27.33 | 21.2  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-16QAM  | Inner_Full      | 26.62 | 25.98 | 29.32 | 23.19 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-16QAM  | Inner_1RB_Left  | 26.96 | 26.16 | 29.59 | 23.46 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-16QAM  | Inner_1RB_Right | 25.98 | 25.68 | 28.84 | 22.71 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-16QAM  | Edge_1RB_Left   | 21.68 | 20.87 | 24.3  | 18.17 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-16QAM  | Edge_1RB_Right  | 20.64 | 20.2  | 23.44 | 17.31 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-64QAM  | Outer_Full      | 24.11 | 23.54 | 26.84 | 20.71 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-64QAM  | Inner_Full      | 24.74 | 24.05 | 27.42 | 21.29 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-64QAM  | Inner_1RB_Left  | 25.1  | 24.21 | 27.69 | 21.56 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-64QAM  | Inner_1RB_Right | 24.12 | 23.73 | 26.94 | 20.81 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-64QAM  | Edge_1RB_Left   | 21.64 | 20.71 | 24.21 | 18.08 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-64QAM  | Edge_1RB_Right  | 20.69 | 20.17 | 23.45 | 17.32 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-256QAM | Outer_Full      | 22.19 | 21.48 | 24.86 | 18.73 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-256QAM | Inner_Full      | 22.27 | 21.54 | 24.94 | 18.81 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-256QAM | Inner_1RB_Left  | 22.37 | 21.56 | 24.99 | 18.86 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-256QAM | Inner_1RB_Right | 21.41 | 20.92 | 24.18 | 18.05 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-256QAM | Edge_1RB_Left   | 21.49 | 20.47 | 24.02 | 17.89 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | L | DFT-256QAM | Edge_1RB_Right  | 20.5  | 20.03 | 23.28 | 17.15 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-BPSK   | Outer_Full      | 25.61 | 25.39 | 28.51 | 22.38 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-BPSK   | Inner_Full      | 27.62 | 27.19 | 30.42 | 24.29 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-BPSK   | Inner_1RB_Left  | 27.56 | 27.16 | 30.37 | 24.24 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-BPSK   | Inner_1RB_Right | 26.78 | 26.37 | 29.59 | 23.46 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-BPSK   | Edge_1RB_Left   | 21.54 | 21.16 | 24.37 | 18.24 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-BPSK   | Edge_1RB_Right  | 20.78 | 20.4  | 23.6  | 17.47 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-QPSK   | Outer_Full      | 25.39 | 25.08 | 28.25 | 22.12 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-QPSK   | Inner_Full      | 27.62 | 27.22 | 30.43 | 24.3  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-QPSK   | Inner_1RB_Left  | 27.45 | 27.2  | 30.34 | 24.21 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-QPSK   | Inner_1RB_Right | 26.83 | 26.36 | 29.61 | 23.48 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-QPSK   | Edge_1RB_Left   | 21.08 | 20.69 | 23.9  | 17.77 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-QPSK   | Edge_1RB_Right  | 20.21 | 19.86 | 23.05 | 16.92 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-       | Outer_Full      | 24.34 | 24.04 | 27.2  | 21.07 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |    |   | 16QAM      |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-16QAM  | Inner_Full      | 26.48 | 26.03 | 29.27 | 23.14 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-16QAM  | Inner_1RB_Left  | 26.5  | 26.24 | 29.38 | 23.25 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-16QAM  | Inner_1RB_Right | 25.76 | 25.36 | 28.58 | 22.45 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-16QAM  | Edge_1RB_Left   | 21.24 | 20.82 | 24.05 | 17.92 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-16QAM  | Edge_1RB_Right  | 20.56 | 20.06 | 23.33 | 17.2  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-64QAM  | Outer_Full      | 23.99 | 23.58 | 26.8  | 20.67 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-64QAM  | Inner_Full      | 24.57 | 24.09 | 27.35 | 21.22 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-64QAM  | Inner_1RB_Left  | 24.73 | 24.18 | 27.48 | 21.35 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-64QAM  | Inner_1RB_Right | 23.8  | 23.37 | 26.6  | 20.47 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-64QAM  | Edge_1RB_Left   | 21.31 | 20.93 | 24.14 | 18.01 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-64QAM  | Edge_1RB_Right  | 20.19 | 20.02 | 23.12 | 16.99 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-256QAM | Outer_Full      | 21.96 | 21.5  | 24.74 | 18.61 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-256QAM | Inner_Full      | 22.03 | 21.63 | 24.85 | 18.72 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-256QAM | Inner_1RB_Left  | 22.11 | 21.69 | 24.92 | 18.79 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-256QAM | Inner_1RB_Right | 21.31 | 20.92 | 24.13 | 18    | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-256QAM | Edge_1RB_Left   | 21.02 | 20.57 | 23.81 | 17.68 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | M | DFT-256QAM | Edge_1RB_Right  | 20.16 | 19.8  | 23    | 16.87 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-BPSK   | Outer_Full      | 25.84 | 25.21 | 28.55 | 22.42 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-BPSK   | Inner_Full      | 27.75 | 27.11 | 30.45 | 24.32 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-BPSK   | Inner_1RB_Left  | 27.6  | 27.25 | 30.44 | 24.31 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-BPSK   | Inner_1RB_Right | 27.26 | 26.26 | 29.8  | 23.67 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-BPSK   | Edge_1RB_Left   | 21.51 | 21.42 | 24.48 | 18.35 | 30 | PASS |

|      |                |    |    |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-BPSK   | Edge_1RB_Right  | 21.26 | 20.31 | 23.82 | 17.69 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-QPSK   | Outer_Full      | 25.62 | 24.87 | 28.27 | 22.14 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-QPSK   | Inner_Full      | 27.72 | 26.98 | 30.38 | 24.25 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-QPSK   | Inner_1RB_Left  | 27.54 | 27.26 | 30.41 | 24.28 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-QPSK   | Inner_1RB_Right | 27.22 | 26.31 | 29.8  | 23.67 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-QPSK   | Edge_1RB_Left   | 21.08 | 20.88 | 23.99 | 17.86 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-QPSK   | Edge_1RB_Right  | 20.84 | 19.86 | 23.39 | 17.26 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-16QAM  | Outer_Full      | 24.69 | 23.94 | 27.34 | 21.21 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-16QAM  | Inner_Full      | 26.71 | 25.91 | 29.34 | 23.21 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-16QAM  | Inner_1RB_Left  | 26.59 | 26.36 | 29.49 | 23.36 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-16QAM  | Inner_1RB_Right | 26.26 | 25.38 | 28.85 | 22.72 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-16QAM  | Edge_1RB_Left   | 21.14 | 20.82 | 23.99 | 17.86 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-16QAM  | Edge_1RB_Right  | 20.84 | 19.88 | 23.4  | 17.27 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-64QAM  | Outer_Full      | 24.16 | 23.49 | 26.85 | 20.72 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-64QAM  | Inner_Full      | 24.79 | 23.99 | 27.42 | 21.29 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-64QAM  | Inner_1RB_Left  | 24.62 | 24.37 | 27.51 | 21.38 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-64QAM  | Inner_1RB_Right | 24.24 | 23.48 | 26.89 | 20.76 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-64QAM  | Edge_1RB_Left   | 21.39 | 21.05 | 24.23 | 18.1  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-64QAM  | Edge_1RB_Right  | 20.94 | 20.08 | 23.54 | 17.41 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-256QAM | Outer_Full      | 22.21 | 21.44 | 24.85 | 18.72 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-256QAM | Inner_Full      | 22.22 | 21.51 | 24.89 | 18.76 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-256QAM | Inner_1RB_Left  | 22.22 | 21.88 | 25.06 | 18.93 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90 | H | DFT-       | Inner_1RB_Right | 21.87 | 20.92 | 24.43 | 18.3  | 30 | PASS |

|      |                |    |     |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|-----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |     |   | 256QAM     |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 90  | H | DFT-256QAM | Edge_1RB_Left   | 21.06 | 20.78 | 23.93 | 17.8  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 90  | H | DFT-256QAM | Edge_1RB_Right  | 20.73 | 19.76 | 23.29 | 17.16 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-BPSK   | Outer_Full      | 26.09 | 25.48 | 28.8  | 22.67 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-BPSK   | Inner_Full      | 27.65 | 26.99 | 30.34 | 24.21 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-BPSK   | Inner_1RB_Left  | 27.79 | 26.97 | 30.41 | 24.28 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-BPSK   | Inner_1RB_Right | 26.9  | 26.48 | 29.71 | 23.58 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-BPSK   | Edge_1RB_Left   | 21.95 | 20.95 | 24.49 | 18.36 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-BPSK   | Edge_1RB_Right  | 20.79 | 20.59 | 23.7  | 17.57 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-QPSK   | Outer_Full      | 25.54 | 24.93 | 28.26 | 22.13 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-QPSK   | Inner_Full      | 27.54 | 26.94 | 30.26 | 24.13 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-QPSK   | Inner_1RB_Left  | 27.75 | 26.88 | 30.34 | 24.21 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-QPSK   | Inner_1RB_Right | 26.76 | 26.54 | 29.66 | 23.53 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-QPSK   | Edge_1RB_Left   | 21.53 | 20.44 | 24.03 | 17.9  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-QPSK   | Edge_1RB_Right  | 20.37 | 20.07 | 23.23 | 17.1  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-16QAM  | Outer_Full      | 24.62 | 23.9  | 27.29 | 21.16 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-16QAM  | Inner_Full      | 26.64 | 25.89 | 29.29 | 23.16 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-16QAM  | Inner_1RB_Left  | 26.95 | 25.9  | 29.47 | 23.34 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-16QAM  | Inner_1RB_Right | 25.85 | 25.61 | 28.74 | 22.61 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-16QAM  | Edge_1RB_Left   | 21.7  | 20.52 | 24.16 | 18.03 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-16QAM  | Edge_1RB_Right  | 20.57 | 20.17 | 23.39 | 17.26 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-64QAM  | Outer_Full      | 24.08 | 23.37 | 26.75 | 20.62 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-64QAM  | Inner_Full      | 24.78 | 23.96 | 27.4  | 21.27 | 30 | PASS |

|      |                |    |     |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|-----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-64QAM  | Inner_1RB_Left  | 25.2  | 24.09 | 27.69 | 21.56 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-64QAM  | Inner_1RB_Right | 23.89 | 23.63 | 26.77 | 20.64 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-64QAM  | Edge_1RB_Left   | 21.48 | 20.38 | 23.97 | 17.84 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-64QAM  | Edge_1RB_Right  | 20.53 | 20.14 | 23.35 | 17.22 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-256QAM | Outer_Full      | 21.93 | 21.27 | 24.62 | 18.49 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-256QAM | Inner_Full      | 22.27 | 21.56 | 24.94 | 18.81 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-256QAM | Inner_1RB_Left  | 22.37 | 21.36 | 24.91 | 18.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-256QAM | Inner_1RB_Right | 21.37 | 21.08 | 24.23 | 18.1  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-256QAM | Edge_1RB_Left   | 21.46 | 20.3  | 23.93 | 17.8  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | L | DFT-256QAM | Edge_1RB_Right  | 20.27 | 19.94 | 23.12 | 16.99 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-BPSK   | Outer_Full      | 26.03 | 25.56 | 28.81 | 22.68 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-BPSK   | Inner_Full      | 27.56 | 27.13 | 30.36 | 24.23 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-BPSK   | Inner_1RB_Left  | 27.62 | 27.17 | 30.41 | 24.28 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-BPSK   | Inner_1RB_Right | 26.77 | 26.38 | 29.59 | 23.46 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-BPSK   | Edge_1RB_Left   | 21.7  | 21.26 | 24.5  | 18.37 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-BPSK   | Edge_1RB_Right  | 20.79 | 20.31 | 23.57 | 17.44 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-QPSK   | Outer_Full      | 25.48 | 25.01 | 28.26 | 22.13 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-QPSK   | Inner_Full      | 27.41 | 27.09 | 30.27 | 24.14 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-QPSK   | Inner_1RB_Left  | 27.6  | 27.12 | 30.38 | 24.25 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-QPSK   | Inner_1RB_Right | 26.82 | 26.43 | 29.64 | 23.51 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-QPSK   | Edge_1RB_Left   | 21.13 | 20.69 | 23.93 | 17.8  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-QPSK   | Edge_1RB_Right  | 20.34 | 19.96 | 23.17 | 17.04 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-       | Outer_Full      | 24.48 | 24.05 | 27.28 | 21.15 | 30 | PASS |

|      |                |    |     |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|-----|---|------------|-----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |     |   | 16QAM      |                 |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-16QAM  | Inner_Full      | 26.5  | 26.14 | 29.33 | 23.2  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-16QAM  | Inner_1RB_Left  | 26.63 | 26.33 | 29.49 | 23.36 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-16QAM  | Inner_1RB_Right | 25.85 | 25.47 | 28.68 | 22.55 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-16QAM  | Edge_1RB_Left   | 21.12 | 20.75 | 23.95 | 17.82 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-16QAM  | Edge_1RB_Right  | 20.38 | 19.92 | 23.17 | 17.04 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-64QAM  | Outer_Full      | 23.95 | 23.53 | 26.75 | 20.62 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-64QAM  | Inner_Full      | 24.53 | 24.21 | 27.38 | 21.25 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-64QAM  | Inner_1RB_Left  | 24.89 | 24.4  | 27.66 | 21.53 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-64QAM  | Inner_1RB_Right | 24.07 | 23.48 | 26.79 | 20.66 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-64QAM  | Edge_1RB_Left   | 21.07 | 20.78 | 23.94 | 17.81 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-64QAM  | Edge_1RB_Right  | 20.51 | 19.95 | 23.25 | 17.12 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-256QAM | Outer_Full      | 22    | 21.52 | 24.78 | 18.65 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-256QAM | Inner_Full      | 22.01 | 21.74 | 24.89 | 18.76 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-256QAM | Inner_1RB_Left  | 22.17 | 21.78 | 24.99 | 18.86 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-256QAM | Inner_1RB_Right | 21.32 | 20.86 | 24.1  | 17.97 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-256QAM | Edge_1RB_Left   | 21.13 | 20.64 | 23.9  | 17.77 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | M | DFT-256QAM | Edge_1RB_Right  | 20.27 | 19.93 | 23.12 | 16.99 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-BPSK   | Outer_Full      | 26.09 | 25.56 | 28.85 | 22.72 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-BPSK   | Inner_Full      | 27.68 | 27    | 30.37 | 24.24 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-BPSK   | Inner_1RB_Left  | 27.75 | 27.46 | 30.62 | 24.49 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-BPSK   | Inner_1RB_Right | 27.23 | 26.22 | 29.76 | 23.63 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-BPSK   | Edge_1RB_Left   | 21.71 | 21.45 | 24.59 | 18.46 | 30 | PASS |

|      |                |    |     |   |            |                 |       |       |       |       |    |      |
|------|----------------|----|-----|---|------------|-----------------|-------|-------|-------|-------|----|------|
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-BPSK   | Edge_1RB_Right  | 21.25 | 20.2  | 23.76 | 17.63 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-QPSK   | Outer_Full      | 25.63 | 25.01 | 28.34 | 22.21 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-QPSK   | Inner_Full      | 27.66 | 26.94 | 30.33 | 24.2  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-QPSK   | Inner_1RB_Left  | 27.79 | 27.41 | 30.61 | 24.48 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-QPSK   | Inner_1RB_Right | 27.26 | 26.24 | 29.79 | 23.66 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-QPSK   | Edge_1RB_Left   | 21.17 | 20.8  | 24    | 17.87 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-QPSK   | Edge_1RB_Right  | 20.79 | 19.87 | 23.36 | 17.23 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-16QAM  | Outer_Full      | 24.73 | 24.08 | 27.43 | 21.3  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-16QAM  | Inner_Full      | 26.72 | 26.1  | 29.43 | 23.3  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-16QAM  | Inner_1RB_Left  | 26.65 | 26.3  | 29.49 | 23.36 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-16QAM  | Inner_1RB_Right | 26.38 | 25.36 | 28.91 | 22.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-16QAM  | Edge_1RB_Left   | 21.42 | 21    | 24.23 | 18.1  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-16QAM  | Edge_1RB_Right  | 20.83 | 19.8  | 23.36 | 17.23 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-64QAM  | Outer_Full      | 24.19 | 23.56 | 26.9  | 20.77 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-64QAM  | Inner_Full      | 24.83 | 24.15 | 27.51 | 21.38 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-64QAM  | Inner_1RB_Left  | 24.92 | 24.48 | 27.72 | 21.59 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-64QAM  | Inner_1RB_Right | 24.42 | 23.35 | 26.93 | 20.8  | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-64QAM  | Edge_1RB_Left   | 21.15 | 20.8  | 23.99 | 17.86 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-64QAM  | Edge_1RB_Right  | 21    | 19.85 | 23.47 | 17.34 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-256QAM | Outer_Full      | 22.17 | 21.62 | 24.91 | 18.78 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-256QAM | Inner_Full      | 22.3  | 21.6  | 24.97 | 18.84 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-256QAM | Inner_1RB_Left  | 22.2  | 21.85 | 25.04 | 18.91 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-       | Inner_1RB_Right | 21.69 | 20.78 | 24.27 | 18.14 | 30 | PASS |

|      |                |    |     |   |            |                |       |       |       |       |    |      |
|------|----------------|----|-----|---|------------|----------------|-------|-------|-------|-------|----|------|
|      | 3980)          |    |     |   | 256QAM     |                |       |       |       |       |    |      |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-256QAM | Edge_1RB_Left  | 21.28 | 20.92 | 24.11 | 17.98 | 30 | PASS |
| NTNV | n77(3700-3980) | 30 | 100 | H | DFT-256QAM | Edge_1RB_Right | 20.81 | 19.73 | 23.31 | 17.18 | 30 | PASS |

**Peak-to-Average Ratio for SA****Peak-to-Average Ratio(CCDF)****Test Result**

| Band          | SCS | Bandwidth | Modulation | Channel | RB Config  | Result | Limit | Verdict |
|---------------|-----|-----------|------------|---------|------------|--------|-------|---------|
| N77-3700-3980 | 30  | 100       | DFT-256QAM | L       | Outer_Full | 6.29   | ≤13   | PASS    |
| N77-3700-3980 | 30  | 100       | CP-256QAM  | L       | Outer_Full | 7.62   | ≤13   | PASS    |
| N77-3700-3980 | 30  | 100       | DFT-256QAM | M       | Outer_Full | 5.95   | ≤13   | PASS    |
| N77-3700-3980 | 30  | 100       | CP-256QAM  | M       | Outer_Full | 7.24   | ≤13   | PASS    |
| N77-3700-3980 | 30  | 100       | DFT-256QAM | H       | Outer_Full | 5.77   | ≤13   | PASS    |
| N77-3700-3980 | 30  | 100       | CP-256QAM  | H       | Outer_Full | 7.06   | ≤13   | PASS    |