

## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1 Test Result

#### 1.1.1 15\_S\_5M\_NTNV\_EIRP

| 5G NR n30 SCS=15kHz SISO 5MHz NTN |                 |                 |                      |      |     |           |      |     |         |         |
|-----------------------------------|-----------------|-----------------|----------------------|------|-----|-----------|------|-----|---------|---------|
| Modulation                        | Frequency (MHz) | RB Allocation   | Conducted Power(dBm) |      |     | EIRP(dBm) |      |     |         | Verdict |
|                                   |                 |                 | Ant1                 | Ant2 | Sum | Ant1      | Ant2 | Sum | Limit   |         |
| DFT-s-OFDM PI/2 BPSK              | 2307.5          | Outer_Full      | 22.71                | /    | /   | 17.01     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_Full      | 23.14                | /    | /   | 17.44     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Left  | 23.16                | /    | /   | 17.46     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Right | 23.17                | /    | /   | 17.47     | /    | /   | <=23.98 | Pass    |
|                                   | 2310            | Outer_Full      | 22.58                | /    | /   | 16.88     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_Full      | 23.21                | /    | /   | 17.51     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Left  | 23.23                | /    | /   | 17.53     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Right | 23.23                | /    | /   | 17.53     | /    | /   | <=23.98 | Pass    |
|                                   | 2312.5          | Outer_Full      | 22.72                | /    | /   | 17.02     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_Full      | 23.24                | /    | /   | 17.54     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Left  | 23.16                | /    | /   | 17.46     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Right | 23.17                | /    | /   | 17.47     | /    | /   | <=23.98 | Pass    |
| DFT-s-OFDM QPSK                   | 2307.5          | Outer_Full      | 22.13                | /    | /   | 16.43     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_Full      | 23.05                | /    | /   | 17.35     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Left  | 23.11                | /    | /   | 17.41     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Right | 23.21                | /    | /   | 17.51     | /    | /   | <=23.98 | Pass    |
|                                   | 2310            | Outer_Full      | 22.16                | /    | /   | 16.46     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_Full      | 23.22                | /    | /   | 17.52     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Left  | 23.21                | /    | /   | 17.51     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Right | 23.13                | /    | /   | 17.43     | /    | /   | <=23.98 | Pass    |
|                                   | 2312.5          | Outer_Full      | 22.23                | /    | /   | 16.53     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_Full      | 23.23                | /    | /   | 17.53     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Left  | 23.18                | /    | /   | 17.48     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Right | 23.23                | /    | /   | 17.53     | /    | /   | <=23.98 | Pass    |
| DFT-s-OFDM 16 QAM                 | 2307.5          | Outer_Full      | 21.40                | /    | /   | 15.70     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_Full      | 22.42                | /    | /   | 16.72     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Left  | 22.28                | /    | /   | 16.58     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Right | 22.36                | /    | /   | 16.66     | /    | /   | <=23.98 | Pass    |
|                                   | 2310            | Outer_Full      | 21.39                | /    | /   | 15.69     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_Full      | 22.38                | /    | /   | 16.68     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Left  | 22.34                | /    | /   | 16.64     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Right | 22.36                | /    | /   | 16.66     | /    | /   | <=23.98 | Pass    |
|                                   | 2312.5          | Outer_Full      | 21.43                | /    | /   | 15.73     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_Full      | 22.52                | /    | /   | 16.82     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Left  | 22.47                | /    | /   | 16.77     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Right | 22.36                | /    | /   | 16.66     | /    | /   | <=23.98 | Pass    |
| DFT-s-OFDM 64 QAM                 | 2307.5          | Outer_Full      | 20.87                | /    | /   | 15.17     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_Full      | 20.94                | /    | /   | 15.24     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Left  | 21.07                | /    | /   | 15.37     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Right | 21.10                | /    | /   | 15.40     | /    | /   | <=23.98 | Pass    |
|                                   | 2310            | Outer_Full      | 20.84                | /    | /   | 15.14     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_Full      | 21.01                | /    | /   | 15.31     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Left  | 21.05                | /    | /   | 15.35     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Right | 21.12                | /    | /   | 15.42     | /    | /   | <=23.98 | Pass    |
|                                   | 2312.5          | Outer_Full      | 20.98                | /    | /   | 15.28     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_Full      | 21.06                | /    | /   | 15.36     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Left  | 21.18                | /    | /   | 15.48     | /    | /   | <=23.98 | Pass    |
|                                   |                 | Inner_1RB_Right | 21.09                | /    | /   | 15.39     | /    | /   | <=23.98 | Pass    |
| DFT-s-OFDM 256                    | 2307.5          | Outer_Full      | 18.79                | /    | /   | 13.09     | /    | /   | <=23.98 | Pass    |

|                 |        |                 |       |   |   |       |   |   |         |      |
|-----------------|--------|-----------------|-------|---|---|-------|---|---|---------|------|
| QAM             |        | Inner_Full      | 18.94 | / | / | 13.24 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Left  | 18.37 | / | / | 12.67 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Right | 18.28 | / | / | 12.58 | / | / | <=23.98 | Pass |
|                 | 2310   | Outer_Full      | 18.81 | / | / | 13.11 | / | / | <=23.98 | Pass |
|                 |        | Inner_Full      | 18.82 | / | / | 13.12 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Left  | 18.30 | / | / | 12.60 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Right | 18.30 | / | / | 12.60 | / | / | <=23.98 | Pass |
|                 | 2312.5 | Outer_Full      | 18.82 | / | / | 13.12 | / | / | <=23.98 | Pass |
|                 |        | Inner_Full      | 18.86 | / | / | 13.16 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Left  | 18.32 | / | / | 12.62 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Right | 18.28 | / | / | 12.58 | / | / | <=23.98 | Pass |
| CP-OFDM QPSK    | 2307.5 | Outer_Full      | 20.41 | / | / | 14.71 | / | / | <=23.98 | Pass |
|                 |        | Inner_Full      | 21.99 | / | / | 16.29 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Left  | 22.05 | / | / | 16.35 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Right | 22.14 | / | / | 16.44 | / | / | <=23.98 | Pass |
|                 | 2310   | Outer_Full      | 20.47 | / | / | 14.77 | / | / | <=23.98 | Pass |
|                 |        | Inner_Full      | 22.06 | / | / | 16.36 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Left  | 22.11 | / | / | 16.41 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Right | 22.05 | / | / | 16.35 | / | / | <=23.98 | Pass |
|                 | 2312.5 | Outer_Full      | 20.62 | / | / | 14.92 | / | / | <=23.98 | Pass |
|                 |        | Inner_Full      | 22.08 | / | / | 16.38 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Left  | 22.29 | / | / | 16.59 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Right | 22.08 | / | / | 16.38 | / | / | <=23.98 | Pass |
| CP-OFDM 16 QAM  | 2307.5 | Outer_Full      | 20.54 | / | / | 14.84 | / | / | <=23.98 | Pass |
|                 |        | Inner_Full      | 21.23 | / | / | 15.53 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Left  | 21.59 | / | / | 15.89 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Right | 21.56 | / | / | 15.86 | / | / | <=23.98 | Pass |
|                 | 2310   | Outer_Full      | 20.60 | / | / | 14.90 | / | / | <=23.98 | Pass |
|                 |        | Inner_Full      | 21.24 | / | / | 15.54 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Left  | 21.58 | / | / | 15.88 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Right | 21.59 | / | / | 15.89 | / | / | <=23.98 | Pass |
|                 | 2312.5 | Outer_Full      | 20.44 | / | / | 14.74 | / | / | <=23.98 | Pass |
|                 |        | Inner_Full      | 21.21 | / | / | 15.51 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Left  | 21.67 | / | / | 15.97 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Right | 21.66 | / | / | 15.96 | / | / | <=23.98 | Pass |
| CP-OFDM 64 QAM  | 2307.5 | Outer_Full      | 19.95 | / | / | 14.25 | / | / | <=23.98 | Pass |
|                 |        | Inner_Full      | 20.00 | / | / | 14.30 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Left  | 20.01 | / | / | 14.31 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Right | 19.94 | / | / | 14.24 | / | / | <=23.98 | Pass |
|                 | 2310   | Outer_Full      | 19.95 | / | / | 14.25 | / | / | <=23.98 | Pass |
|                 |        | Inner_Full      | 19.94 | / | / | 14.24 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Left  | 19.99 | / | / | 14.29 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Right | 20.02 | / | / | 14.32 | / | / | <=23.98 | Pass |
|                 | 2312.5 | Outer_Full      | 19.90 | / | / | 14.20 | / | / | <=23.98 | Pass |
|                 |        | Inner_Full      | 20.11 | / | / | 14.41 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Left  | 20.16 | / | / | 14.46 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Right | 20.03 | / | / | 14.33 | / | / | <=23.98 | Pass |
| CP-OFDM 256 QAM | 2307.5 | Outer_Full      | 16.96 | / | / | 11.26 | / | / | <=23.98 | Pass |
|                 |        | Inner_Full      | 16.87 | / | / | 11.17 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Left  | 16.43 | / | / | 10.73 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Right | 16.44 | / | / | 10.74 | / | / | <=23.98 | Pass |
|                 | 2310   | Outer_Full      | 16.85 | / | / | 11.15 | / | / | <=23.98 | Pass |
|                 |        | Inner_Full      | 16.98 | / | / | 11.28 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Left  | 16.48 | / | / | 10.78 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Right | 16.49 | / | / | 10.79 | / | / | <=23.98 | Pass |
|                 | 2312.5 | Outer_Full      | 16.87 | / | / | 11.17 | / | / | <=23.98 | Pass |
|                 |        | Inner_Full      | 16.98 | / | / | 11.28 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Left  | 16.57 | / | / | 10.87 | / | / | <=23.98 | Pass |
|                 |        | Inner_1RB_Right | 16.38 | / | / | 10.68 | / | / | <=23.98 | Pass |

Note1: Antenna Gain: Ant1: -5.70dBi;  
 Note2: EIRP=Conducted Power+Antenna Gain

## 1.1.2 15\_S\_10M\_NTNV\_EIRP

| 5G NR n30 SCS=15kHz SISO 10MHz NTN                                               |                    |                  |                      |      |     |           |      |     |         |         |
|----------------------------------------------------------------------------------|--------------------|------------------|----------------------|------|-----|-----------|------|-----|---------|---------|
| Modulation                                                                       | Frequency<br>(MHz) | RB<br>Allocation | Conducted Power(dBm) |      |     | EIRP(dBm) |      |     |         | Verdict |
|                                                                                  |                    |                  | Ant1                 | Ant2 | Sum | Ant1      | Ant2 | Sum | Limit   |         |
| DFT-s-OFDM PI/2<br>BPSK                                                          | 2310               | Outer_Full       | 22.92                | /    | /   | 17.22     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_Full       | 23.14                | /    | /   | 17.44     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_1RB_Left   | 23.18                | /    | /   | 17.48     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_1RB_Right  | 23.08                | /    | /   | 17.38     | /    | /   | <=23.98 | Pass    |
| DFT-s-OFDM QPSK                                                                  | 2310               | Outer_Full       | 22.43                | /    | /   | 16.73     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_Full       | 23.16                | /    | /   | 17.46     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_1RB_Left   | 23.21                | /    | /   | 17.51     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_1RB_Right  | 23.22                | /    | /   | 17.52     | /    | /   | <=23.98 | Pass    |
| DFT-s-OFDM 16 QAM                                                                | 2310               | Outer_Full       | 21.49                | /    | /   | 15.79     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_Full       | 22.43                | /    | /   | 16.73     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_1RB_Left   | 22.33                | /    | /   | 16.63     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_1RB_Right  | 22.40                | /    | /   | 16.70     | /    | /   | <=23.98 | Pass    |
| DFT-s-OFDM 64 QAM                                                                | 2310               | Outer_Full       | 20.98                | /    | /   | 15.28     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_Full       | 20.91                | /    | /   | 15.21     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_1RB_Left   | 21.16                | /    | /   | 15.46     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_1RB_Right  | 21.09                | /    | /   | 15.39     | /    | /   | <=23.98 | Pass    |
| DFT-s-OFDM 256<br>QAM                                                            | 2310               | Outer_Full       | 18.85                | /    | /   | 13.15     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_Full       | 18.72                | /    | /   | 13.02     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_1RB_Left   | 18.32                | /    | /   | 12.62     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_1RB_Right  | 18.15                | /    | /   | 12.45     | /    | /   | <=23.98 | Pass    |
| CP-OFDM QPSK                                                                     | 2310               | Outer_Full       | 20.37                | /    | /   | 14.67     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_Full       | 22.04                | /    | /   | 16.34     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_1RB_Left   | 22.07                | /    | /   | 16.37     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_1RB_Right  | 22.00                | /    | /   | 16.30     | /    | /   | <=23.98 | Pass    |
| CP-OFDM 16 QAM                                                                   | 2310               | Outer_Full       | 20.36                | /    | /   | 14.66     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_Full       | 21.39                | /    | /   | 15.69     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_1RB_Left   | 21.38                | /    | /   | 15.68     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_1RB_Right  | 21.58                | /    | /   | 15.88     | /    | /   | <=23.98 | Pass    |
| CP-OFDM 64 QAM                                                                   | 2310               | Outer_Full       | 19.93                | /    | /   | 14.23     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_Full       | 19.99                | /    | /   | 14.29     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_1RB_Left   | 19.99                | /    | /   | 14.29     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_1RB_Right  | 19.97                | /    | /   | 14.27     | /    | /   | <=23.98 | Pass    |
| CP-OFDM 256 QAM                                                                  | 2310               | Outer_Full       | 16.92                | /    | /   | 11.22     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_Full       | 16.90                | /    | /   | 11.20     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_1RB_Left   | 16.40                | /    | /   | 10.70     | /    | /   | <=23.98 | Pass    |
|                                                                                  |                    | Inner_1RB_Right  | 16.43                | /    | /   | 10.73     | /    | /   | <=23.98 | Pass    |
| Note1: Antenna Gain: Ant1: -5.70dBi;<br>Note2: EIRP=Conducted Power+Antenna Gain |                    |                  |                      |      |     |           |      |     |         |         |

Remark: Total channel power is complied with EIRP limit 23.98dBm/5MHz.