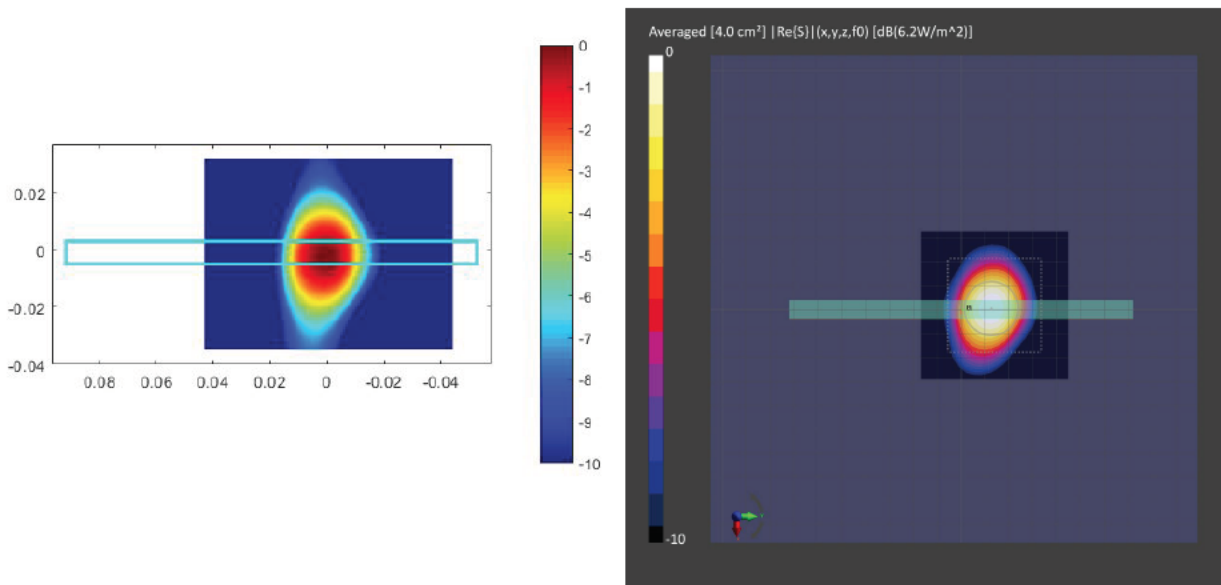


**Figure 2-32** Simulated (Left) and measured (Right) PD distribution for the following configuration: Band n261, MID Channel, Beam ID 141, AG1 polarization, Module1, plotted on surface S4 (right) with 10mm separation distance to the DUT.



**Figure 2-33** Simulated (Left) and measured (Right) averaged PD distribution for the following configuration: Band n261, MID Channel, Beam ID 141, AG1 polarization, Module1, plotted on surface S4 (right) with 10mm separation distance to the DUT.

## 2.2 Calculated PD per beam ID

The simulated time-average  $PD$  calculated for the selected evaluation planes for all beams in the codebook are presented in this section. The calculations are done for the LOW, MID, and HIGH channels of n260 and n261 frequency bands for both Module0 and Module1. Because the paired beams are not phase coherent, the relative phase difference between the corresponding paired beams with vertical (AG0) and horizontal (AG1) polarizations is swepted from  $0^\circ$  to  $360^\circ$  in  $5^\circ$  steps and the  $PD_{ave}$  is calculated for all of these phase difference values in order to capture the largest possible  $PD_{ave}$  value. The  $PD_{ave}$  values for every beam ID are reported in Tables 2-2 to Table 2-7 for n260 and Tables 2-8 to Table 2-13 for n261. For the beam IDs with paired beam configuration, the largest possible  $PD_{ave}$  values calculated using this relative phase difference sweeping method are reported.

**Table 2-2** Simulated averaged PD over 4 [cm<sup>2</sup>] area at n260 - Low Channel - Module0.

| n260 - LOW CH |     |       |         |              | Averaged PD over 4 [cm <sup>2</sup> ] area in [w/m <sup>2</sup> ] |        |        |        |        | (PD exposure surface) / (PD worst surface) |              |              |
|---------------|-----|-------|---------|--------------|---|--------|--------|--------|--------|--|--------------|--------------|
| Beam ID       |     | Type  | Pin     | No. of feeds | Module0   |        |        |        |        | Module0 (Ratio)                            |              |              |
| AG0           | AG1 |       |         |              | (2mm)   | (10mm) | (10mm) | (10mm) | (10mm) | (10mm)                                     | (10mm)       | (10mm)       |
|               |     |       |         |              | S1  | S1     | S2     | S3     | S5     | S1/(worst S)                               | S2/(worst S) | S3/(worst S) |
| 1             |     | Patch | 6 [dBm] | 1            | 2.91  | 1.00   | 0.43   | 0.01   | 2.35   | 0.34                                       | 0.15         | 0.00         |
|               | 129 |       |         | 1            | 2.53  | 0.90   | 0.43   | 0.01   | 2.27   | 0.35                                       | 0.17         | 0.00         |
| 1             | 129 |       |         | 2            | 6.69  | 2.71   | 1.08   | 0.29   | 5.08   | 0.40                                       | 0.16         | 0.04         |
| 6             |     |       |         | 2            | 3.60  | 1.57   | 1.60   | 0.01   | 4.56   | 0.35                                       | 0.35         | 0.00         |
|               | 134 |       |         | 2            | 4.23  | 1.90   | 1.51   | 0.01   | 4.77   | 0.40                                       | 0.32         | 0.00         |
| 6             | 134 |       |         | 4            | 9.17  | 3.97   | 3.74   | 0.41   | 10.73  | 0.37                                       | 0.35         | 0.04         |
| 7             |     |       |         | 2            | 4.92  | 2.01   | 0.66   | 0.01   | 3.72   | 0.41                                       | 0.13         | 0.00         |
|               | 133 |       |         | 2            | 3.48  | 1.06   | 1.17   | 0.01   | 3.41   | 0.31                                       | 0.34         | 0.00         |
| 7             | 133 |       |         | 4            | 9.45  | 3.36   | 2.22   | 0.56   | 7.60   | 0.36                                       | 0.24         | 0.06         |
| 5             |     |       |         | 2            | 4.99  | 1.66   | 1.19   | 0.02   | 3.90   | 0.33                                       | 0.24         | 0.00         |
|               | 135 |       |         | 2            | 3.93  | 1.26   | 1.06   | 0.01   | 3.64   | 0.32                                       | 0.27         | 0.00         |
| 5             | 135 |       |         | 4            | 9.26  | 3.58   | 2.13   | 0.83   | 8.17   | 0.39                                       | 0.23         | 0.09         |
| 11            |     |       |         | 2            | 3.09  | 1.16   | 0.98   | 0.02   | 3.43   | 0.34                                       | 0.29         | 0.00         |
|               | 138 |       |         | 2            | 3.88  | 1.56   | 1.34   | 0.01   | 4.16   | 0.38                                       | 0.32         | 0.00         |
| 11            | 138 |       |         | 4            | 8.47  | 3.46   | 2.93   | 0.71   | 9.51   | 0.36                                       | 0.31         | 0.07         |
| 10            |     |       |         | 2            | 3.33  | 1.28   | 1.56   | 0.03   | 4.59   | 0.28                                       | 0.34         | 0.01         |
|               | 139 |       |         | 2            | 4.38  | 1.74   | 0.92   | 0.02   | 4.45   | 0.39                                       | 0.21         | 0.01         |
| 10            | 139 |       |         | 4            | 8.94  | 3.56   | 2.91   | 0.33   | 9.71   | 0.37                                       | 0.30         | 0.03         |
| 18            |     |       |         | 4            | 7.41  | 3.43   | 2.77   | 0.02   | 8.31   | 0.41                                       | 0.33         | 0.00         |
|               | 147 |       |         | 4            | 7.44  | 3.33   | 2.75   | 0.03   | 8.82   | 0.38                                       | 0.31         | 0.00         |
| 18            | 147 |       |         | 8            | 19.61   | 9.00   | 5.99   | 1.68   | 19.93  | 0.45                                       | 0.30         | 0.08         |
| 19            |     |       |         | 4            | 7.47  | 3.07   | 2.82   | 0.02   | 8.51   | 0.36                                       | 0.33         | 0.00         |
|               | 146 |       |         | 4            | 6.98  | 3.26   | 2.84   | 0.02   | 8.27   | 0.39                                       | 0.34         | 0.00         |
| 19            | 146 |       |         | 8            | 17.30   | 7.65   | 6.42   | 0.32   | 17.64  | 0.43                                       | 0.36         | 0.02         |
| 21            |     |       |         | 4            | 7.00  | 2.27   | 2.41   | 0.03   | 6.81   | 0.32                                       | 0.35         | 0.00         |
|               | 148 |       |         | 4            | 7.17  | 2.91   | 1.60   | 0.02   | 7.39   | 0.39                                       | 0.22         | 0.00         |
| 21            | 148 |       |         | 8            | 16.23   | 6.02   | 4.47   | 0.82   | 16.00  | 0.37                                       | 0.28         | 0.05         |
| 17            |     |       |         | 4            | 7.65  | 2.62   | 2.20   | 0.04   | 6.23   | 0.34                                       | 0.29         | 0.01         |
|               | 145 |       |         | 4            | 6.03  | 2.02   | 2.42   | 0.03   | 6.94   | 0.29                                       | 0.35         | 0.00         |
| 17            | 145 |       |         | 8            | 16.15   | 5.12   | 3.63   | 1.86   | 13.94  | 0.32                                       | 0.22         | 0.12         |
| 20            |     | 4     | 9.00    | 3.84         | 1.77  | 0.04   | 8.50   | 0.43   | 0.20   | 0.00                                       |              |              |
|               | 149 | 4     | 6.68    | 2.31         | 1.98  | 0.01   | 6.84   | 0.34   | 0.29   | 0.00                                       |              |              |
| 20            | 149 | 8     | 16.69   | 5.80         | 3.83  | 0.75   | 15.86  | 0.35   | 0.23   | 0.05                                       |              |              |
| 28            |     | 4     | 9.05    | 4.05         | 2.23  | 0.03   | 8.67   | 0.45   | 0.25   | 0.00                                       |              |              |
|               | 154 | 4     | 5.81    | 2.43         | 3.07  | 0.02   | 7.87   | 0.31   | 0.39   | 0.00                                       |              |              |
| 28            | 154 | 8     | 16.81   | 7.42         | 5.79  | 0.74   | 18.07  | 0.41   | 0.32   | 0.04                                       |              |              |
| 26            |     | 4     | 7.11    | 2.51         | 2.60  | 0.02   | 7.66   | 0.33   | 0.34   | 0.00                                       |              |              |
|               | 156 | 4     | 7.76    | 3.53         | 2.56  | 0.03   | 8.90   | 0.40   | 0.29   | 0.00                                       |              |              |
| 26            | 156 | 8     | 18.15   | 7.75         | 5.38  | 0.66   | 19.13  | 0.40   | 0.28   | 0.03                                       |              |              |
| 27            |     | 4     | 7.95    | 3.74         | 2.52  | 0.04   | 8.42   | 0.44   | 0.30   | 0.00                                       |              |              |
|               | 155 | 4     | 7.39    | 3.47         | 2.38  | 0.02   | 7.93   | 0.44   | 0.30   | 0.00                                       |              |              |
| 27            | 155 | 8     | 19.12   | 9.37         | 6.03  | 1.55   | 17.83  | 0.49   | 0.32   | 0.08                                       |              |              |
| 29            |     | 4     | 8.87    | 3.50         | 1.47  | 0.05   | 7.96   | 0.39   | 0.17   | 0.01                                       |              |              |
|               | 157 | 4     | 6.84    | 2.37         | 1.65  | 0.01   | 6.49   | 0.35   | 0.24   | 0.00                                       |              |              |
| 29            | 157 | 8     | 16.50   | 5.20         | 3.51  | 1.18   | 13.96  | 0.32   | 0.21   | 0.07                                       |              |              |

**Table 2-3** Simulated averaged PD over 4 [cm<sup>2</sup>] area at n260 - Low Channel - Module1.

| n260 - LOW CH |     |       |         |              | Averaged PD over 4 [cm <sup>2</sup> ] area in [w/m <sup>2</sup> ] |        |        |        | PD exposure surface) /  PD worst surface |              |
|---------------|-----|-------|---------|--------------|---|--------|--------|--------|--|--------------|
| Beam ID       |     | Type  | Pin     | No. of feeds | Module1   |        |        |        | Module1 (Ratio)                          |              |
| AG0           | AG1 |       |         |              | (2mm)   | (10mm) | (10mm) | (10mm) | (10mm)                                   | (10mm)       |
|               |     |       |         |              | S1  | S1     | S2     | S4     | S1/(worst S)                             | S2/(worst S) |
| 0             |     | Patch | 6 [dBm] | 1            | 1.66  | 0.43   | 0.78   | 2.58   | 0.17                                     | 0.30         |
|               | 128 |       |         | 1            | 2.22  | 0.73   | 0.38   | 2.02   | 0.33                                     | 0.17         |
| 0             | 128 |       |         | 2            | 4.35  | 1.25   | 1.35   | 5.07   | 0.25                                     | 0.27         |
| 4             |     |       |         | 2            | 4.10  | 1.60   | 0.71   | 3.66   | 0.39                                     | 0.17         |
|               | 130 |       |         | 2            | 2.85  | 0.86   | 1.12   | 3.32   | 0.26                                     | 0.34         |
| 4             | 130 |       |         | 4            | 8.33  | 2.65   | 2.41   | 7.83   | 0.32                                     | 0.29         |
| 2             |     |       |         | 2            | 2.75  | 1.06   | 1.34   | 3.39   | 0.31                                     | 0.39         |
|               | 132 |       |         | 2            | 4.12  | 1.65   | 0.53   | 3.31   | 0.40                                     | 0.13         |
| 2             | 132 |       |         | 4            | 7.78  | 2.87   | 2.35   | 7.47   | 0.37                                     | 0.30         |
| 3             |     |       |         | 2            | 4.23  | 1.81   | 1.28   | 4.54   | 0.40                                     | 0.28         |
|               | 131 |       |         | 2            | 3.37  | 1.40   | 1.71   | 4.57   | 0.30                                     | 0.37         |
| 3             | 131 |       |         | 4            | 9.32  | 4.04   | 3.78   | 10.27  | 0.39                                     | 0.37         |
| 8             |     |       |         | 2            | 3.87  | 1.25   | 0.93   | 3.50   | 0.32                                     | 0.24         |
|               | 137 |       |         | 2            | 3.13  | 1.27   | 1.22   | 3.80   | 0.33                                     | 0.32         |
| 8             | 137 |       |         | 4            | 8.66  | 3.61   | 2.80   | 8.86   | 0.41                                     | 0.32         |
| 9             |     |       |         | 2            | 4.73  | 1.96   | 1.17   | 4.86   | 0.40                                     | 0.24         |
|               | 136 |       |         | 2            | 3.11  | 1.20   | 1.72   | 4.68   | 0.26                                     | 0.37         |
| 9             | 136 |       |         | 4            | 9.21  | 3.82   | 3.55   | 9.87   | 0.39                                     | 0.36         |
| 15            |     |       |         | 4            | 8.12  | 3.42   | 1.89   | 8.14   | 0.42                                     | 0.23         |
|               | 140 |       |         | 4            | 6.07  | 2.38   | 2.75   | 7.88   | 0.30                                     | 0.35         |
| 15            | 140 |       |         | 4            | 15.19   | 6.66   | 4.83   | 17.09  | 0.39                                     | 0.28         |
| 13            |     |       |         | 4            | 6.67  | 2.62   | 3.52   | 9.38   | 0.28                                     | 0.38         |
|               | 143 |       |         | 4            | 7.74  | 3.15   | 1.60   | 7.40   | 0.41                                     | 0.21         |
| 13            | 143 |       |         | 8            | 16.06   | 6.87   | 5.64   | 18.48  | 0.37                                     | 0.31         |
| 14            |     |       |         | 4            | 6.97  | 2.72   | 3.11   | 8.85   | 0.31                                     | 0.35         |
|               | 144 |       |         | 4            | 8.12  | 3.16   | 2.01   | 7.91   | 0.39                                     | 0.25         |
| 14            | 144 |       |         | 8            | 15.13   | 5.79   | 5.15   | 17.27  | 0.34                                     | 0.30         |
| 12            |     |       |         | 4            | 5.44  | 1.91   | 3.04   | 7.90   | 0.24                                     | 0.38         |
|               | 141 |       |         | 4            | 6.68  | 3.01   | 2.93   | 8.03   | 0.37                                     | 0.36         |
| 12            | 141 |       |         | 8            | 14.74   | 5.53   | 5.06   | 15.41  | 0.36                                     | 0.33         |
| 16            |     |       |         | 4            | 5.49  | 2.12   | 3.32   | 8.26   | 0.26                                     | 0.40         |
|               | 142 |       |         | 4            | 7.45  | 3.36   | 2.71   | 8.23   | 0.41                                     | 0.33         |
| 16            | 142 |       |         | 8            | 14.69   | 6.27   | 6.46   | 17.50  | 0.36                                     | 0.37         |
| 25            |     |       |         | 4            | 6.93  | 2.89   | 2.45   | 6.39   | 0.42                                     | 0.35         |
|               | 153 |       |         | 4            | 7.27  | 2.48   | 2.03   | 6.06   | 0.34                                     | 0.28         |
| 25            | 153 |       |         | 8            | 14.70   | 4.79   | 3.67   | 12.88  | 0.33                                     | 0.25         |
| 24            |     |       |         | 4            | 7.78  | 3.50   | 3.25   | 9.35   | 0.37                                     | 0.35         |
|               | 150 |       |         | 4            | 6.67  | 2.95   | 3.09   | 8.47   | 0.35                                     | 0.36         |
| 24            | 150 |       |         | 8            | 18.71   | 8.62   | 6.61   | 21.50  | 0.40                                     | 0.31         |
| 22            |     |       |         | 4            | 5.95  | 2.31   | 3.46   | 8.91   | 0.26                                     | 0.39         |
|               | 152 | 4     | 8.20    | 3.68         | 2.25  | 8.21   | 0.45   | 0.27   |  |              |
| 22            | 152 | 8     | 15.68   | 6.94         | 6.63  | 17.93  | 0.39   | 0.37   |  |              |
| 23            |     | 4     | 7.89    | 3.76         | 3.42  | 9.55   | 0.39   | 0.36   |  |              |
|               | 151 | 4     | 6.57    | 2.69         | 2.70  | 7.90   | 0.34   | 0.34   |  |              |
| 23            | 151 | 8     | 15.63   | 7.22         | 6.98  | 17.87  | 0.40   | 0.39   |  |              |

**Table 2-4** Simulated averaged PD over 4 [cm<sup>2</sup>] area at n260 - Mid Channel - Module0.

| n260 - MID CH |     |       |         |              | Averaged PD over 4 [cm <sup>2</sup> ] area in [w/m <sup>2</sup> ] |        |        |        |        | (PD exposure surface) / (PD worst surface) |              |              |
|---------------|-----|-------|---------|--------------|---|--------|--------|--------|--------|--|--------------|--------------|
| Beam ID       |     | Type  | Pin     | No. of feeds | Module0   |        |        |        |        | Module0 (Ratio)                            |              |              |
| AG0           | AG1 |       |         |              | (2mm)   | (10mm) | (10mm) | (10mm) | (10mm) | (10mm)                                     | (10mm)       | (10mm)       |
|               |     |       |         |              | S1  | S1     | S2     | S3     | S5     | S1/(worst S)                               | S2/(worst S) | S3/(worst S) |
| 1             |     | Patch | 6 [dBm] | 1            | 3.03  | 0.94   | 0.43   | 0.00   | 2.57   | 0.31                                       | 0.14         | 0.00         |
|               | 129 |       |         | 1            | 2.52  | 0.77   | 0.43   | 0.00   | 2.36   | 0.31                                       | 0.17         | 0.00         |
| 1             | 129 |       |         | 2            | 5.70  | 2.13   | 1.24   | 0.47   | 5.35   | 0.37                                       | 0.22         | 0.08         |
| 6             |     |       |         | 2            | 4.37  | 1.92   | 1.92   | 0.01   | 5.35   | 0.36                                       | 0.36         | 0.00         |
|               | 134 |       |         | 2            | 4.30  | 1.92   | 1.57   | 0.00   | 5.24   | 0.37                                       | 0.30         | 0.00         |
| 6             | 134 |       |         | 4            | 11.80   | 5.37   | 5.12   | 0.59   | 12.33  | 0.44                                       | 0.41         | 0.05         |
| 7             |     |       |         | 2            | 5.87  | 2.44   | 1.04   | 0.01   | 5.26   | 0.42                                       | 0.18         | 0.00         |
|               | 133 |       |         | 2            | 3.74  | 1.24   | 1.24   | 0.01   | 3.89   | 0.32                                       | 0.32         | 0.00         |
| 7             | 133 |       |         | 4            | 11.13   | 4.85   | 3.29   | 0.68   | 9.93   | 0.44                                       | 0.30         | 0.06         |
| 5             |     |       |         | 2            | 5.03  | 1.69   | 1.12   | 0.01   | 4.18   | 0.34                                       | 0.22         | 0.00         |
|               | 135 |       |         | 2            | 4.59  | 1.46   | 1.34   | 0.01   | 4.60   | 0.32                                       | 0.29         | 0.00         |
| 5             | 135 |       |         | 4            | 11.68   | 4.58   | 2.48   | 1.16   | 11.05  | 0.39                                       | 0.21         | 0.10         |
| 11            |     |       |         | 2            | 4.12  | 1.58   | 1.15   | 0.01   | 4.50   | 0.35                                       | 0.25         | 0.00         |
|               | 138 |       |         | 2            | 4.29  | 1.70   | 1.61   | 0.01   | 4.99   | 0.34                                       | 0.32         | 0.00         |
| 11            | 138 |       |         | 4            | 11.30   | 4.63   | 4.44   | 1.25   | 12.42  | 0.37                                       | 0.36         | 0.10         |
| 10            |     |       |         | 2            | 4.26  | 1.63   | 1.83   | 0.01   | 5.39   | 0.30                                       | 0.34         | 0.00         |
|               | 139 |       |         | 2            | 4.74  | 1.84   | 1.06   | 0.01   | 4.65   | 0.39                                       | 0.22         | 0.00         |
| 10            | 139 |       |         | 4            | 11.52   | 5.05   | 3.82   | 0.34   | 11.18  | 0.44                                       | 0.33         | 0.03         |
| 18            |     |       |         | 4            | 8.92  | 3.72   | 3.28   | 0.02   | 10.11  | 0.37                                       | 0.32         | 0.00         |
|               | 147 |       |         | 4            | 8.05  | 3.98   | 3.10   | 0.03   | 9.67   | 0.41                                       | 0.32         | 0.00         |
| 18            | 147 |       |         | 8            | 21.87   | 10.54  | 6.95   | 1.96   | 23.57  | 0.45                                       | 0.29         | 0.08         |
| 19            |     |       |         | 4            | 7.85  | 3.22   | 2.97   | 0.02   | 9.27   | 0.35                                       | 0.32         | 0.00         |
|               | 146 |       |         | 4            | 7.52  | 3.34   | 3.68   | 0.01   | 9.57   | 0.35                                       | 0.38         | 0.00         |
| 19            | 146 |       |         | 8            | 18.69   | 8.47   | 8.07   | 0.61   | 20.57  | 0.41                                       | 0.39         | 0.03         |
| 21            |     |       |         | 4            | 7.75  | 2.59   | 2.37   | 0.02   | 7.93   | 0.33                                       | 0.30         | 0.00         |
|               | 148 |       |         | 4            | 8.26  | 3.23   | 1.90   | 0.01   | 8.59   | 0.38                                       | 0.22         | 0.00         |
| 21            | 148 |       |         | 8            | 17.92   | 7.89   | 5.16   | 1.37   | 18.09  | 0.44                                       | 0.29         | 0.08         |
| 17            |     |       |         | 4            | 8.37  | 2.81   | 2.18   | 0.02   | 7.64   | 0.34                                       | 0.26         | 0.00         |
|               | 145 |       |         | 4            | 6.88  | 2.35   | 2.77   | 0.02   | 8.44   | 0.28                                       | 0.33         | 0.00         |
| 17            | 145 |       |         | 8            | 19.50   | 7.02   | 5.85   | 2.03   | 19.28  | 0.36                                       | 0.30         | 0.10         |
| 20            |     | 4     | 11.66   | 4.91         | 2.23  | 0.02   | 11.02  | 0.42   | 0.19   | 0.00                                       |              |              |
|               | 149 | 4     | 7.35    | 2.29         | 2.48  | 0.01   | 8.18   | 0.28   | 0.30   | 0.00                                       |              |              |
| 20            | 149 | 8     | 22.53   | 8.82         | 5.90  | 1.56   | 20.76  | 0.39   | 0.26   | 0.07                                       |              |              |
| 28            |     | 4     | 10.59   | 4.67         | 3.04  | 0.01   | 11.21  | 0.42   | 0.27   | 0.00                                       |              |              |
|               | 154 | 4     | 8.36    | 3.45         | 3.82  | 0.01   | 10.58  | 0.33   | 0.36   | 0.00                                       |              |              |
| 28            | 154 | 8     | 21.08   | 9.78         | 8.09  | 0.88   | 23.75  | 0.41   | 0.34   | 0.04                                       |              |              |
| 26            |     | 4     | 7.71    | 3.03         | 2.59  | 0.02   | 8.60   | 0.35   | 0.30   | 0.00                                       |              |              |
|               | 156 | 4     | 8.52    | 3.89         | 3.21  | 0.03   | 10.05  | 0.39   | 0.32   | 0.00                                       |              |              |
| 26            | 156 | 8     | 21.14   | 9.98         | 7.27  | 1.26   | 21.21  | 0.47   | 0.34   | 0.06                                       |              |              |
| 27            |     | 4     | 8.47    | 3.64         | 3.40  | 0.02   | 9.72   | 0.37   | 0.35   | 0.00                                       |              |              |
|               | 155 | 4     | 6.14    | 2.48         | 2.99  | 0.01   | 8.71   | 0.28   | 0.34   | 0.00                                       |              |              |
| 27            | 155 | 8     | 17.89   | 8.02         | 8.02  | 2.22   | 19.47  | 0.41   | 0.41   | 0.11                                       |              |              |
| 29            |     | 4     | 10.52   | 4.18         | 1.57  | 0.02   | 9.47   | 0.40   | 0.15   | 0.00                                       |              |              |
|               | 157 | 4     | 7.77    | 2.51         | 2.05  | 0.01   | 7.90   | 0.32   | 0.26   | 0.00                                       |              |              |
| 29            | 157 | 8     | 19.30   | 7.07         | 4.49  | 1.21   | 17.26  | 0.37   | 0.23   | 0.06                                       |              |              |

**Table 2-5** Simulated averaged PD over 4 [cm<sup>2</sup>] area at n260 - Mid Channel - Module1.

| n260 - MID CH |     |       |         |              | Averaged PD over 4 [cm <sup>2</sup> ] area in [w/m <sup>2</sup> ] |        |        |        | PD exposure surface) / ( PD worst surface |              |
|---------------|-----|-------|---------|--------------|---|--------|--------|--------|---|--------------|
| Beam ID       |     |       |         |              | Module1   |        |        |        | Module1 (Ratio)                           |              |
| AG0           | AG1 | Type  | Pin     | No. of feeds | (2mm)   | (10mm) | (10mm) | (10mm) | (10mm)                                    | (10mm)       |
|               |     |       |         |              | S1  | S1     | S2     | S4     | S1/(worst S)                              | S2/(worst S) |
| 0             |     | Patch | 6 [dBm] | 1            | 2.12  | 0.58   | 0.79   | 2.87   | 0.20                                      | 0.27         |
|               | 128 |       |         | 1            | 2.31  | 0.71   | 0.46   | 2.23   | 0.31                                      | 0.20         |
| 0             | 128 |       |         | 2            | 5.54  | 1.52   | 1.77   | 5.40   | 0.27                                      | 0.32         |
| 4             |     |       |         | 2            | 4.23  | 1.43   | 1.02   | 4.27   | 0.34                                      | 0.24         |
|               | 130 |       |         | 2            | 4.12  | 1.21   | 1.34   | 4.43   | 0.27                                      | 0.30         |
| 4             | 130 |       |         | 4            | 12.57   | 4.08   | 3.40   | 10.31  | 0.32                                      | 0.27         |
| 2             |     |       |         | 2            | 3.62  | 1.14   | 1.54   | 4.57   | 0.25                                      | 0.34         |
|               | 132 |       |         | 2            | 4.72  | 1.92   | 0.89   | 4.22   | 0.41                                      | 0.19         |
| 2             | 132 |       |         | 4            | 11.41   | 3.68   | 3.75   | 10.03  | 0.32                                      | 0.33         |
| 3             |     |       |         | 2            | 3.69  | 1.59   | 1.44   | 4.30   | 0.37                                      | 0.34         |
|               | 131 |       |         | 2            | 3.94  | 1.71   | 1.91   | 5.14   | 0.33                                      | 0.37         |
| 3             | 131 |       |         | 4            | 10.44   | 4.85   | 5.15   | 11.55  | 0.42                                      | 0.45         |
| 8             |     |       |         | 2            | 4.22  | 1.46   | 1.07   | 3.98   | 0.35                                      | 0.25         |
|               | 137 |       |         | 2            | 4.08  | 1.64   | 1.52   | 4.62   | 0.36                                      | 0.33         |
| 8             | 137 |       |         | 4            | 12.20   | 5.12   | 4.08   | 10.90  | 0.42                                      | 0.33         |
| 9             |     |       |         | 2            | 3.81  | 1.60   | 1.32   | 4.60   | 0.35                                      | 0.29         |
|               | 136 |       |         | 2            | 3.88  | 1.49   | 1.75   | 5.21   | 0.29                                      | 0.34         |
| 9             | 136 |       |         | 4            | 10.16   | 4.27   | 4.18   | 10.23  | 0.42                                      | 0.41         |
| 15            |     |       |         | 4            | 7.69  | 3.12   | 2.56   | 8.72   | 0.36                                      | 0.29         |
|               | 140 |       |         | 4            | 7.76  | 2.96   | 2.75   | 9.25   | 0.32                                      | 0.30         |
| 15            | 140 |       |         | 4            | 17.85   | 7.07   | 5.93   | 19.58  | 0.36                                      | 0.30         |
| 13            |     |       |         | 4            | 8.73  | 3.58   | 4.18   | 11.59  | 0.31                                      | 0.36         |
|               | 143 |       |         | 4            | 9.51  | 4.06   | 2.01   | 8.78   | 0.43                                      | 0.21         |
| 13            | 143 |       |         | 8            | 21.53   | 8.83   | 7.49   | 22.55  | 0.39                                      | 0.33         |
| 14            |     |       |         | 4            | 7.03  | 2.57   | 3.31   | 9.06   | 0.28                                      | 0.37         |
|               | 144 |       |         | 4            | 8.66  | 3.27   | 2.40   | 8.92   | 0.37                                      | 0.27         |
| 14            | 144 |       |         | 8            | 17.01   | 6.11   | 5.80   | 18.19  | 0.34                                      | 0.32         |
| 12            |     |       |         | 4            | 7.15  | 2.53   | 3.23   | 9.21   | 0.27                                      | 0.35         |
|               | 141 |       |         | 4            | 8.08  | 3.24   | 3.61   | 10.06  | 0.32                                      | 0.36         |
| 12            | 141 |       |         | 8            | 17.37   | 6.22   | 6.11   | 19.17  | 0.32                                      | 0.32         |
| 16            |     |       |         | 4            | 7.05  | 2.85   | 3.46   | 9.49   | 0.30                                      | 0.36         |
|               | 142 |       |         | 4            | 9.02  | 4.18   | 3.18   | 10.14  | 0.41                                      | 0.31         |
| 16            | 142 | 8     | 20.20   | 8.98         | 8.51  | 21.19  | 0.42   | 0.40   |   |              |
| 25            |     | 4     | 7.38    | 3.02         | 2.72  | 7.52   | 0.40   | 0.36   |   |              |
|               | 153 | 4     | 7.79    | 2.54         | 2.07  | 7.57   | 0.33   | 0.27   |   |              |
| 25            | 153 | 8     | 17.51   | 6.32         | 4.58  | 16.81  | 0.36   | 0.26   |   |              |
| 24            |     | 4     | 8.43    | 3.82         | 3.82  | 10.65  | 0.36   | 0.36   |   |              |
|               | 150 | 4     | 8.49    | 3.47         | 3.44  | 10.18  | 0.34   | 0.34   |   |              |
| 24            | 150 | 8     | 19.77   | 8.99         | 7.59  | 23.48  | 0.38   | 0.32   |   |              |
| 22            |     | 4     | 7.72    | 3.16         | 3.75  | 10.45  | 0.30   | 0.36   |   |              |
|               | 152 | 4     | 9.88    | 4.50         | 3.11  | 10.44  | 0.43   | 0.30   |   |              |
| 22            | 152 | 8     | 20.96   | 9.64         | 9.20  | 21.99  | 0.44   | 0.42   |   |              |
| 23            |     | 4     | 6.41    | 2.81         | 4.07  | 9.42   | 0.30   | 0.43   |   |              |
|               | 151 | 4     | 6.31    | 2.38         | 2.91  | 7.91   | 0.30   | 0.37   |   |              |
| 23            | 151 | 8     | 13.30   | 5.91         | 8.96  | 19.58  | 0.30   | 0.46   |   |              |

Table 2-6 Simulated averaged PD over 4 [cm<sup>2</sup>] area at n260 - High Channel - Module0.

| n260 - HIGH CH |     |       |         |              | Averaged PD over 4 [cm <sup>2</sup> ] area in [w/m <sup>2</sup> ] |        |        |        |        | (PD exposure surface) / (PD worst surface) |              |              |
|----------------|-----|-------|---------|--------------|---|--------|--------|--------|--------|--|--------------|--------------|
| Beam ID        |     | Type  | Pin     | No. of feeds | Module0   |        |        |        |        | Module0 (Ratio)                            |              |              |
| AG0            | AG1 |       |         |              | (2mm)   | (10mm) | (10mm) | (10mm) | (10mm) | (10mm)                                     | (10mm)       | (10mm)       |
|                |     |       |         |              | S1  | S1     | S2     | S3     | S5     | S1/(worst S)                               | S2/(worst S) | S3/(worst S) |
| 1              |     | Patch | 6 [dBm] | 1            | 2.83  | 0.87   | 0.43   | 0.00   | 2.23   | 0.31                                       | 0.15         | 0.00         |
|                | 129 |       |         | 1            | 2.57  | 0.76   | 0.38   | 0.00   | 2.13   | 0.30                                       | 0.15         | 0.00         |
| 1              | 129 |       |         | 2            | 5.82  | 1.92   | 1.22   | 0.66   | 4.97   | 0.33                                       | 0.21         | 0.11         |
| 6              |     |       |         | 2            | 3.87  | 1.56   | 1.69   | 0.00   | 5.07   | 0.31                                       | 0.33         | 0.00         |
|                | 134 |       |         | 2            | 4.57  | 1.72   | 1.49   | 0.00   | 5.13   | 0.33                                       | 0.29         | 0.00         |
| 6              | 134 |       |         | 4            | 9.94  | 4.29   | 4.71   | 1.25   | 11.55  | 0.37                                       | 0.41         | 0.11         |
| 7              |     |       |         | 2            | 5.25  | 2.11   | 1.13   | 0.00   | 4.70   | 0.40                                       | 0.22         | 0.00         |
|                | 133 |       |         | 2            | 3.64  | 1.24   | 0.85   | 0.00   | 3.12   | 0.34                                       | 0.23         | 0.00         |
| 7              | 133 |       |         | 4            | 10.63   | 3.86   | 3.05   | 0.63   | 8.82   | 0.36                                       | 0.29         | 0.06         |
| 5              |     |       |         | 2            | 4.29  | 1.45   | 1.02   | 0.00   | 3.69   | 0.34                                       | 0.24         | 0.00         |
|                | 135 |       |         | 2            | 4.90  | 1.54   | 1.19   | 0.00   | 4.58   | 0.32                                       | 0.24         | 0.00         |
| 5              | 135 |       |         | 4            | 11.46   | 4.10   | 2.38   | 1.42   | 9.94   | 0.36                                       | 0.21         | 0.12         |
| 11             |     |       |         | 2            | 4.47  | 1.58   | 1.09   | 0.00   | 4.75   | 0.33                                       | 0.23         | 0.00         |
|                | 138 |       |         | 2            | 4.65  | 1.61   | 1.42   | 0.00   | 4.74   | 0.34                                       | 0.30         | 0.00         |
| 11             | 138 |       |         | 4            | 12.08   | 4.34   | 3.92   | 1.43   | 11.24  | 0.36                                       | 0.32         | 0.12         |
| 10             |     |       |         | 2            | 4.02  | 1.61   | 1.47   | 0.00   | 4.91   | 0.33                                       | 0.30         | 0.00         |
|                | 139 |       |         | 2            | 4.69  | 1.87   | 1.28   | 0.00   | 5.13   | 0.36                                       | 0.25         | 0.00         |
| 10             | 139 |       |         | 4            | 11.59   | 4.96   | 3.80   | 0.44   | 11.82  | 0.42                                       | 0.32         | 0.04         |
| 18             |     |       |         | 4            | 7.47  | 2.99   | 2.54   | 0.01   | 8.30   | 0.36                                       | 0.31         | 0.00         |
|                | 147 |       |         | 4            | 8.01  | 3.47   | 2.70   | 0.01   | 9.11   | 0.38                                       | 0.30         | 0.00         |
| 18             | 147 |       |         | 8            | 18.06   | 8.15   | 6.63   | 1.68   | 18.89  | 0.43                                       | 0.35         | 0.09         |
| 19             |     |       |         | 4            | 9.18  | 3.42   | 2.20   | 0.00   | 8.87   | 0.37                                       | 0.24         | 0.00         |
|                | 146 |       |         | 4            | 6.71  | 2.79   | 2.92   | 0.00   | 8.20   | 0.34                                       | 0.36         | 0.00         |
| 19             | 146 |       |         | 8            | 16.71   | 7.05   | 6.86   | 0.57   | 18.58  | 0.38                                       | 0.37         | 0.03         |
| 21             |     |       |         | 4            | 8.76  | 3.17   | 2.14   | 0.01   | 7.71   | 0.36                                       | 0.24         | 0.00         |
|                | 148 |       |         | 4            | 8.15  | 3.46   | 1.84   | 0.01   | 8.38   | 0.41                                       | 0.22         | 0.00         |
| 21             | 148 |       |         | 8            | 17.57   | 7.66   | 4.52   | 1.35   | 17.88  | 0.43                                       | 0.25         | 0.08         |
| 17             |     |       |         | 4            | 9.00  | 3.20   | 2.04   | 0.01   | 8.02   | 0.36                                       | 0.23         | 0.00         |
|                | 145 |       |         | 4            | 7.35  | 2.54   | 2.30   | 0.01   | 8.18   | 0.31                                       | 0.28         | 0.00         |
| 17             | 145 |       |         | 8            | 19.69   | 6.19   | 5.25   | 2.37   | 18.59  | 0.31                                       | 0.27         | 0.12         |
| 20             |     |       |         | 4            | 9.86  | 4.04   | 2.12   | 0.01   | 9.99   | 0.40                                       | 0.21         | 0.00         |
|                | 149 |       |         | 4            | 8.29  | 2.76   | 1.65   | 0.00   | 7.79   | 0.33                                       | 0.20         | 0.00         |
| 20             | 149 | 8     | 22.95   | 7.66         | 5.76  | 2.85   | 19.78  | 0.33   | 0.25   | 0.12                                       |              |              |
| 28             |     | 4     | 9.61    | 3.94         | 2.52  | 0.01   | 10.14  | 0.39   | 0.25   | 0.00                                       |              |              |
|                | 154 | 4     | 7.38    | 3.02         | 2.79  | 0.01   | 8.58   | 0.35   | 0.32   | 0.00                                       |              |              |
| 28             | 154 | 8     | 18.22   | 7.43         | 7.22  | 0.77   | 19.99  | 0.37   | 0.36   | 0.04                                       |              |              |
| 26             |     | 4     | 7.39    | 2.54         | 2.02  | 0.01   | 7.65   | 0.33   | 0.26   | 0.00                                       |              |              |
|                | 156 | 4     | 7.88    | 3.68         | 2.56  | 0.01   | 8.93   | 0.41   | 0.29   | 0.00                                       |              |              |
| 26             | 156 | 8     | 18.75   | 8.64         | 5.76  | 1.31   | 19.16  | 0.45   | 0.30   | 0.07                                       |              |              |
| 27             |     | 4     | 7.51    | 3.17         | 3.31  | 0.01   | 9.02   | 0.35   | 0.37   | 0.00                                       |              |              |
|                | 155 | 4     | 6.73    | 2.61         | 2.56  | 0.00   | 7.81   | 0.33   | 0.33   | 0.00                                       |              |              |
| 27             | 155 | 8     | 14.88   | 6.35         | 8.81  | 2.91   | 20.62  | 0.31   | 0.43   | 0.14                                       |              |              |
| 29             |     | 4     | 9.64    | 3.77         | 1.71  | 0.01   | 9.29   | 0.39   | 0.18   | 0.00                                       |              |              |
|                | 157 | 4     | 8.15    | 2.87         | 1.75  | 0.00   | 7.86   | 0.35   | 0.21   | 0.00                                       |              |              |
| 29             | 157 | 8     | 20.06   | 6.78         | 3.90  | 1.07   | 18.18  | 0.34   | 0.19   | 0.05                                       |              |              |

Table 2-7 Simulated averaged PD over 4 [cm<sup>2</sup>] area at n260 - High Channel - Module1.



| n260 - HIGH CH |     |       |         |              | Averaged PD over 4 [cm <sup>2</sup> ] area in [w/m <sup>2</sup> ] |        |        |        | (PD exposure surface) / (PD worst surface) |              |
|----------------|-----|-------|---------|--------------|---|--------|--------|--------|--|--------------|
|                |     |       |         |              | Module1   |        |        |        | Module1 (Ratio)                            |              |
| Beam ID        |     |       |         |              | (2mm)   | (10mm) | (10mm) | (10mm) | (10mm)                                     | (10mm)       |
| AG0            | AG1 | Type  | Pin     | No. of feeds | S1  | S1     | S2     | S4     | S1/(worst S)                               | S2/(worst S) |
| 0              |     | Patch | 6 [dBm] | 1            | 2.34  | 0.69   | 0.58   | 2.86   | 0.24                                       | 0.20         |
|                | 128 |       |         | 1            | 2.11  | 0.53   | 0.43   | 2.22   | 0.24                                       | 0.19         |
| 0              | 128 |       |         | 2            | 6.09  | 1.76   | 1.68   | 5.81   | 0.29                                       | 0.28         |
| 4              |     |       |         | 2            | 4.25  | 1.45   | 1.23   | 4.36   | 0.33                                       | 0.28         |
|                | 130 |       |         | 2            | 5.04  | 1.51   | 1.10   | 4.63   | 0.30                                       | 0.22         |
| 4              | 130 |       |         | 4            | 13.84   | 4.82   | 3.78   | 10.74  | 0.35                                       | 0.27         |
| 2              |     |       |         | 2            | 3.92  | 1.29   | 1.40   | 4.94   | 0.26                                       | 0.28         |
|                | 132 |       |         | 2            | 4.16  | 1.58   | 0.96   | 3.85   | 0.38                                       | 0.23         |
| 2              | 132 |       |         | 4            | 11.94   | 3.93   | 4.01   | 10.56  | 0.33                                       | 0.34         |
| 3              |     |       |         | 2            | 3.88  | 1.46   | 1.65   | 4.76   | 0.31                                       | 0.35         |
|                | 131 |       |         | 2            | 4.48  | 1.88   | 1.79   | 5.80   | 0.32                                       | 0.31         |
| 3              | 131 |       |         | 4            | 10.52   | 4.72   | 5.05   | 12.06  | 0.39                                       | 0.42         |
| 8              |     |       |         | 2            | 4.06  | 1.19   | 1.07   | 4.02   | 0.29                                       | 0.26         |
|                | 137 |       |         | 2            | 4.63  | 1.85   | 1.29   | 4.83   | 0.38                                       | 0.27         |
| 8              | 137 |       |         | 4            | 12.21   | 5.05   | 3.92   | 10.94  | 0.41                                       | 0.32         |
| 9              |     |       |         | 2            | 4.36  | 1.57   | 1.61   | 5.31   | 0.29                                       | 0.30         |
|                | 136 |       |         | 2            | 4.77  | 1.90   | 1.69   | 5.98   | 0.32                                       | 0.28         |
| 9              | 136 |       |         | 4            | 12.46   | 5.01   | 5.01   | 12.97  | 0.39                                       | 0.39         |
| 15             |     |       |         | 4            | 7.22  | 3.16   | 2.24   | 8.62   | 0.37                                       | 0.26         |
|                | 140 |       |         | 4            | 6.87  | 2.45   | 2.12   | 7.61   | 0.32                                       | 0.28         |
| 15             | 140 |       |         | 4            | 17.03   | 6.56   | 5.19   | 17.46  | 0.38                                       | 0.30         |
| 13             |     |       |         | 4            | 7.38  | 2.70   | 3.32   | 9.51   | 0.28                                       | 0.35         |
|                | 143 |       |         | 4            | 8.37  | 3.46   | 1.84   | 8.43   | 0.41                                       | 0.22         |
| 13             | 143 |       |         | 8            | 21.17   | 8.66   | 6.80   | 20.14  | 0.41                                       | 0.32         |
| 14             |     |       |         | 4            | 7.93  | 2.84   | 2.69   | 9.41   | 0.30                                       | 0.29         |
|                | 144 |       |         | 4            | 8.60  | 3.22   | 2.48   | 9.70   | 0.33                                       | 0.26         |
| 14             | 144 |       |         | 8            | 18.98   | 6.69   | 5.60   | 19.24  | 0.35                                       | 0.29         |
| 12             |     |       |         | 4            | 6.99  | 2.51   | 2.64   | 8.35   | 0.30                                       | 0.32         |
|                | 141 |       |         | 4            | 8.16  | 3.37   | 2.60   | 9.36   | 0.36                                       | 0.28         |
| 12             | 141 |       |         | 8            | 18.18   | 6.34   | 5.96   | 20.04  | 0.32                                       | 0.30         |
| 16             |     |       |         | 4            | 7.28  | 2.97   | 2.88   | 8.07   | 0.37                                       | 0.36         |
|                | 142 |       |         | 4            | 8.28  | 3.41   | 2.70   | 9.40   | 0.36                                       | 0.29         |
| 16             | 142 | 8     | 17.68   | 7.07         | 7.90  | 20.83  | 0.34   | 0.38   |  |              |
| 25             |     | 4     | 7.69    | 3.19         | 2.70  | 8.09   | 0.39   | 0.33   |  |              |
|                | 153 | 4     | 8.14    | 2.70         | 2.05  | 8.13   | 0.33   | 0.25   |  |              |
| 25             | 153 | 8     | 16.56   | 5.81         | 5.04  | 16.83  | 0.35   | 0.30   |  |              |
| 24             |     | 4     | 8.05    | 3.47         | 3.30  | 10.46  | 0.33   | 0.32   |  |              |
|                | 150 | 4     | 8.06    | 3.35         | 2.26  | 8.64   | 0.39   | 0.26   |  |              |
| 24             | 150 | 8     | 18.70   | 8.43         | 7.34  | 20.80  | 0.41   | 0.35   |  |              |
| 22             |     | 4     | 6.98    | 2.52         | 2.86  | 8.57   | 0.29   | 0.33   |  |              |
|                | 152 | 4     | 7.87    | 3.51         | 2.52  | 9.09   | 0.39   | 0.28   |  |              |
| 22             | 152 | 8     | 16.30   | 7.07         | 7.90  | 20.65  | 0.34   | 0.38   |  |              |
| 23             |     | 4     | 7.73    | 3.06         | 3.67  | 10.19  | 0.30   | 0.36   |  |              |
|                | 151 | 4     | 7.25    | 2.74         | 3.27  | 9.45   | 0.29   | 0.35   |  |              |
| 23             | 151 | 8     | 15.86   | 6.27         | 10.08   | 22.79  | 0.28   | 0.44   |  |              |

Table 2-8 Simulated averaged PD over 4 [cm<sup>2</sup>] area at n261 - Low Channel - Module0.

| n261 - LOW CH |     |       |         |              | Averaged PD over 4 [cm <sup>2</sup> ] area in [w/m <sup>2</sup> ] |        |        |        |        | (PD exposure surface) / (PD worst surface) |              |              |
|---------------|-----|-------|---------|--------------|---|--------|--------|--------|--------|--|--------------|--------------|
| Beam ID       |     |       |         |              | Module0   |        |        |        |        | Module0 (Ratio)                            |              |              |
| AG0           | AG1 | Type  | Pin     | No. of feeds | (2mm)   | (10mm) | (10mm) | (10mm) | (10mm) | (10mm)                                     | (10mm)       | (10mm)       |
|               |     |       |         |              | S1  | S1     | S2     | S3     | S5     | S1/(worst S)                               | S2/(worst S) | S3/(worst S) |
| 1             |     |       |         | 1            | 1.98  | 0.62   | 0.71   | 0.18   | 2.07   | 0.30                                       | 0.34         | 0.09         |
|               | 129 |       |         | 1            | 2.34  | 0.79   | 0.59   | 0.12   | 2.04   | 0.34                                       | 0.25         | 0.05         |
| 1             | 129 |       |         | 2            | 5.34  | 1.77   | 1.64   | 0.39   | 4.59   | 0.33                                       | 0.31         | 0.07         |
| 6             |     |       |         | 2            | 4.94  | 1.83   | 1.52   | 0.10   | 4.90   | 0.37                                       | 0.31         | 0.02         |
|               | 134 |       |         | 2            | 4.74  | 2.00   | 1.66   | 0.07   | 5.19   | 0.39                                       | 0.32         | 0.01         |
| 6             | 134 |       |         | 4            | 12.34   | 5.09   | 4.09   | 0.23   | 11.67  | 0.41                                       | 0.33         | 0.02         |
| 7             |     |       |         | 2            | 3.33  | 1.17   | 1.81   | 0.29   | 4.29   | 0.27                                       | 0.42         | 0.07         |
|               | 133 |       |         | 2            | 3.31  | 1.17   | 0.91   | 0.32   | 2.41   | 0.35                                       | 0.28         | 0.10         |
| 7             | 133 |       |         | 4            | 8.57  | 3.28   | 3.24   | 0.65   | 7.28   | 0.38                                       | 0.38         | 0.08         |
| 5             |     |       |         | 2            | 2.62  | 0.73   | 1.33   | 0.53   | 2.60   | 0.28                                       | 0.51         | 0.20         |
|               | 135 |       |         | 2            | 3.27  | 1.34   | 1.21   | 0.42   | 3.30   | 0.41                                       | 0.37         | 0.13         |
| 5             | 135 |       |         | 4            | 8.25  | 2.95   | 2.55   | 1.40   | 5.76   | 0.36                                       | 0.31         | 0.17         |
| 10            |     |       |         | 2            | 4.71  | 1.77   | 1.18   | 0.34   | 3.88   | 0.38                                       | 0.25         | 0.07         |
|               | 139 |       |         | 2            | 3.98  | 1.70   | 1.50   | 0.27   | 4.35   | 0.39                                       | 0.35         | 0.06         |
| 10            | 139 |       |         | 4            | 8.93  | 3.76   | 3.24   | 0.88   | 8.94   | 0.42                                       | 0.36         | 0.10         |
| 11            |     |       |         | 2            | 4.37  | 1.65   | 1.71   | 0.15   | 4.96   | 0.33                                       | 0.35         | 0.03         |
|               | 138 |       |         | 2            | 4.48  | 1.85   | 1.44   | 0.22   | 4.37   | 0.41                                       | 0.32         | 0.05         |
| 11            | 138 |       |         | 4            | 10.76   | 4.31   | 3.99   | 0.59   | 10.21  | 0.40                                       | 0.37         | 0.06         |
| 21            |     |       |         | 4            | 5.50  | 2.23   | 2.91   | 1.08   | 7.50   | 0.30                                       | 0.39         | 0.14         |
|               | 145 |       |         | 4            | 6.48  | 2.71   | 1.97   | 0.88   | 4.89   | 0.42                                       | 0.30         | 0.14         |
| 21            | 145 |       |         | 8            | 13.78   | 5.32   | 5.78   | 2.02   | 13.64  | 0.39                                       | 0.42         | 0.15         |
| 20            |     |       |         | 4            | 8.95  | 4.22   | 4.11   | 0.32   | 10.08  | 0.42                                       | 0.41         | 0.03         |
|               | 146 | Patch | 6 [dBm] | 4            | 8.44  | 4.15   | 3.38   | 0.26   | 8.78   | 0.47                                       | 0.38         | 0.03         |
| 20            | 146 |       |         | 8            | 19.78   | 9.64   | 8.81   | 0.64   | 22.54  | 0.43                                       | 0.39         | 0.03         |
| 19            |     |       |         | 4            | 10.18   | 4.86   | 3.63   | 0.11   | 9.79   | 0.48                                       | 0.36         | 0.01         |
|               | 147 |       |         | 4            | 7.57  | 3.75   | 3.65   | 0.11   | 8.83   | 0.42                                       | 0.41         | 0.01         |
| 19            | 147 |       |         | 8            | 21.51   | 10.76  | 8.78   | 0.30   | 23.01  | 0.47                                       | 0.38         | 0.01         |
| 17            |     |       |         | 4            | 5.48  | 1.68   | 1.85   | 0.89   | 4.42   | 0.31                                       | 0.34         | 0.16         |
|               | 149 |       |         | 4            | 5.21  | 2.08   | 1.77   | 0.66   | 5.30   | 0.39                                       | 0.34         | 0.12         |
| 17            | 149 |       |         | 8            | 12.43   | 4.42   | 4.36   | 2.28   | 10.84  | 0.36                                       | 0.35         | 0.18         |
| 18            |     |       |         | 4            | 9.27  | 4.41   | 2.89   | 0.22   | 8.39   | 0.48                                       | 0.31         | 0.02         |
|               | 148 |       |         | 4            | 7.38  | 3.31   | 3.59   | 0.39   | 8.28   | 0.40                                       | 0.43         | 0.05         |
| 18            | 148 |       |         | 8            | 19.15   | 9.29   | 6.43   | 0.87   | 19.14  | 0.49                                       | 0.34         | 0.05         |
| 28            |     |       |         | 4            | 9.52  | 4.65   | 3.86   | 0.14   | 9.86   | 0.47                                       | 0.39         | 0.01         |
|               | 155 |       |         | 4            | 8.05  | 3.85   | 3.40   | 0.10   | 8.73   | 0.44                                       | 0.39         | 0.01         |
| 28            | 155 |       |         | 8            | 20.90   | 10.30  | 8.68   | 0.26   | 22.63  | 0.46                                       | 0.38         | 0.01         |
| 27            |     |       |         | 4            | 10.10   | 4.99   | 3.58   | 0.21   | 9.70   | 0.49                                       | 0.35         | 0.02         |
|               | 156 |       |         | 4            | 8.16  | 3.97   | 3.63   | 0.17   | 9.26   | 0.43                                       | 0.39         | 0.02         |
| 27            | 156 |       |         | 8            | 21.60   | 10.84  | 8.36   | 0.48   | 22.95  | 0.47                                       | 0.36         | 0.02         |
| 26            |     |       |         | 4            | 7.42  | 2.80   | 2.17   | 0.70   | 6.43   | 0.38                                       | 0.29         | 0.09         |
|               | 157 |       |         | 4            | 5.64  | 2.30   | 2.63   | 0.56   | 6.52   | 0.35                                       | 0.40         | 0.09         |
| 26            | 157 |       |         | 8            | 15.07   | 6.28   | 5.37   | 1.86   | 14.44  | 0.42                                       | 0.36         | 0.12         |
| 29            |     |       |         | 4            | 6.78  | 2.83   | 3.63   | 0.95   | 8.88   | 0.32                                       | 0.41         | 0.11         |
|               | 154 |       |         | 4            | 7.54  | 3.59   | 3.18   | 0.40   | 7.59   | 0.47                                       | 0.42         | 0.05         |
| 29            | 154 |       |         | 8            | 15.85   | 7.06   | 6.77   | 1.68   | 18.06  | 0.39                                       | 0.37         | 0.09         |

Table 2-9 Simulated averaged PD over 4 [cm<sup>2</sup>] area at n261 - Low Channel - Module1.

| n261 - LOW CH |     |       |         |              | Averaged PD over 4 [cm <sup>2</sup> ] area in [w/m <sup>2</sup> ] |        |        |        | (PD exposure surface) / (PD worst surface) |              |
|---------------|-----|-------|---------|--------------|---|--------|--------|--------|--|--------------|
|               |     |       |         |              | Module1   |        |        |        | Module1 (Ratio)                            |              |
| Beam ID       |     | Type  | Pin     | No. of feeds | (2mm)   | (10mm) | (10mm) | (10mm) | (10mm)                                     | (10mm)       |
| AG0           | AG1 |       |         |              | S1  | S1     | S2     | S4     | S1/(worst S)                               | S2/(worst S) |
| 0             |     | Patch | 6 [dBm] | 1            | 1.88  | 0.58   | 0.67   | 2.03   | 0.29                                       | 0.33         |
|               | 128 |       |         | 1            | 1.98  | 0.58   | 0.73   | 2.18   | 0.27                                       | 0.34         |
| 0             | 128 |       |         | 2            | 4.49  | 1.28   | 1.49   | 4.81   | 0.27                                       | 0.31         |
| 2             |     |       |         | 2            | 2.88  | 0.78   | 1.06   | 2.62   | 0.27                                       | 0.37         |
|               | 132 |       |         | 2            | 2.79  | 0.88   | 1.43   | 3.13   | 0.28                                       | 0.46         |
| 2             | 132 |       |         | 4            | 6.91  | 2.22   | 2.83   | 6.06   | 0.32                                       | 0.41         |
| 3             |     |       |         | 2            | 4.25  | 1.83   | 1.72   | 4.82   | 0.38                                       | 0.36         |
|               | 131 |       |         | 2            | 4.42  | 1.65   | 1.84   | 5.22   | 0.32                                       | 0.35         |
| 3             | 131 |       |         | 4            | 10.47   | 4.21   | 4.17   | 10.28  | 0.40                                       | 0.40         |
| 4             |     |       |         | 2            | 2.78  | 0.98   | 0.84   | 2.50   | 0.35                                       | 0.30         |
|               | 130 |       |         | 2            | 4.36  | 1.56   | 1.41   | 4.30   | 0.36                                       | 0.32         |
| 4             | 130 |       |         | 4            | 8.06  | 3.04   | 2.71   | 6.94   | 0.38                                       | 0.34         |
| 8             |     |       |         | 2            | 4.03  | 1.69   | 1.59   | 4.23   | 0.40                                       | 0.38         |
|               | 137 |       |         | 2            | 3.19  | 1.22   | 1.21   | 3.42   | 0.36                                       | 0.35         |
| 8             | 137 |       |         | 4            | 7.80  | 3.18   | 3.37   | 8.27   | 0.38                                       | 0.41         |
| 9             |     |       |         | 2            | 3.40  | 1.19   | 1.37   | 3.85   | 0.31                                       | 0.36         |
|               | 136 |       |         | 2            | 4.67  | 1.70   | 1.77   | 5.26   | 0.32                                       | 0.34         |
| 9             | 136 |       |         | 4            | 9.47  | 3.64   | 3.56   | 8.83   | 0.38                                       | 0.38         |
| 14            |     |       |         | 4            | 8.26  | 3.84   | 4.65   | 10.32  | 0.37                                       | 0.45         |
|               | 141 |       |         | 4            | 9.14  | 4.23   | 3.63   | 9.67   | 0.44                                       | 0.38         |
| 14            | 141 |       |         | 4            | 20.81   | 9.65   | 9.52   | 24.19  | 0.40                                       | 0.39         |
| 12            |     |       |         | 4            | 6.96  | 3.01   | 3.67   | 8.11   | 0.37                                       | 0.45         |
|               | 143 |       |         | 4            | 7.19  | 3.10   | 3.61   | 8.61   | 0.36                                       | 0.42         |
| 12            | 143 |       |         | 8            | 15.59   | 6.67   | 8.68   | 18.24  | 0.37                                       | 0.48         |
| 13            |     |       |         | 4            | 9.06  | 4.23   | 3.84   | 10.09  | 0.42                                       | 0.38         |
|               | 142 |       |         | 4            | 7.97  | 3.61   | 3.89   | 9.07   | 0.40                                       | 0.43         |
| 13            | 142 |       |         | 8            | 20.43   | 9.30   | 9.40   | 23.79  | 0.39                                       | 0.40         |
| 15            |     |       |         | 4            | 6.73  | 2.85   | 3.26   | 8.47   | 0.34                                       | 0.38         |
|               | 140 |       |         | 4            | 8.14  | 3.51   | 2.79   | 8.10   | 0.43                                       | 0.34         |
| 15            | 140 |       |         | 8            | 15.65   | 6.51   | 6.98   | 16.98  | 0.38                                       | 0.41         |
| 16            |     | 4     | 4.71    | 1.47         | 1.46  | 4.15   | 0.31   | 0.31   |  |              |
|               | 144 | 4     | 4.75    | 1.48         | 2.02  | 5.39   | 0.28   | 0.37   |  |              |
| 16            | 144 | 8     | 11.87   | 3.41         | 4.29  | 9.63   | 0.29   | 0.36   |  |              |
| 23            |     | 4     | 8.88    | 4.07         | 4.06  | 10.03  | 0.41   | 0.41   |  |              |
|               | 151 | 4     | 8.65    | 4.01         | 3.78  | 9.43   | 0.42   | 0.40   |  |              |
| 23            | 151 | 8     | 20.90   | 9.57         | 9.33  | 24.16  | 0.40   | 0.39   |  |              |
| 22            |     | 4     | 7.87    | 3.62         | 3.87  | 9.34   | 0.39   | 0.41   |  |              |
|               | 152 | 4     | 7.70    | 3.48         | 3.97  | 8.95   | 0.39   | 0.44   |  |              |
| 22            | 152 | 8     | 18.58   | 8.49         | 9.73  | 21.95  | 0.39   | 0.44   |  |              |
| 24            |     | 4     | 8.35    | 3.75         | 3.89  | 9.86   | 0.38   | 0.39   |  |              |
|               | 150 | 4     | 8.92    | 4.16         | 3.44  | 9.43   | 0.44   | 0.37   |  |              |
| 24            | 150 | 8     | 19.75   | 8.93         | 8.17  | 20.22  | 0.44   | 0.40   |  |              |
| 25            |     | 4     | 5.03    | 2.03         | 2.27  | 6.47   | 0.31   | 0.35   |  |              |
|               | 153 | 4     | 6.66    | 2.74         | 3.29  | 8.38   | 0.33   | 0.39   |  |              |
| 25            | 153 | 8     | 11.71   | 4.17         | 4.65  | 10.24  | 0.36   | 0.40   |  |              |

Table 2-10 Simulated averaged PD over 4 [cm<sup>2</sup>] area at n261 - Mid Channel - Module0.

| n261 - MID CH |     |       |         |              | Averaged PD over 4 [cm <sup>2</sup> ] area in [w/m <sup>2</sup> ] |        |        |        |        | (PD exposure surface) / (PD worst surface) |              |              |
|---------------|-----|-------|---------|--------------|---|--------|--------|--------|--------|--|--------------|--------------|
| Beam ID       |     | Type  | Pin     | No. of feeds | Module0   |        |        |        |        | Module0 (Ratio)                            |              |              |
| AG0           | AG1 |       |         |              | (2mm)   | (10mm) | (10mm) | (10mm) | (10mm) | (10mm)                                     | (10mm)       | (10mm)       |
|               |     |       |         |              | S1  | S1     | S2     | S3     | S5     | S1/(worst S)                               | S2/(worst S) | S3/(worst S) |
| 1             |     | Patch | 6 [dBm] | 1            | 1.63  | 0.45   | 0.76   | 0.21   | 1.89   | 0.24                                       | 0.40         | 0.11         |
|               | 129 |       |         | 1            | 2.32  | 0.81   | 0.51   | 0.11   | 1.95   | 0.35                                       | 0.22         | 0.05         |
| 1             | 129 |       |         | 2            | 5.01  | 1.69   | 1.66   | 0.48   | 4.31   | 0.34                                       | 0.33         | 0.10         |
| 6             |     |       |         | 2            | 4.41  | 1.63   | 1.49   | 0.13   | 4.58   | 0.35                                       | 0.33         | 0.03         |
|               | 134 |       |         | 2            | 4.64  | 2.03   | 1.64   | 0.06   | 4.89   | 0.41                                       | 0.34         | 0.01         |
| 6             | 134 |       |         | 4            | 12.11   | 5.13   | 4.30   | 0.28   | 10.93  | 0.42                                       | 0.35         | 0.02         |
| 7             |     |       |         | 2            | 3.05  | 0.97   | 1.87   | 0.24   | 3.98   | 0.24                                       | 0.47         | 0.06         |
|               | 133 |       |         | 2            | 2.97  | 1.09   | 0.82   | 0.29   | 2.25   | 0.37                                       | 0.28         | 0.10         |
| 7             | 133 |       |         | 4            | 7.96  | 2.98   | 3.16   | 0.69   | 6.93   | 0.37                                       | 0.40         | 0.09         |
| 5             |     |       |         | 2            | 2.33  | 0.66   | 1.30   | 0.58   | 2.40   | 0.28                                       | 0.54         | 0.24         |
|               | 135 |       |         | 2            | 3.54  | 1.45   | 1.05   | 0.40   | 3.25   | 0.41                                       | 0.30         | 0.11         |
| 5             | 135 |       |         | 4            | 8.50  | 3.20   | 2.25   | 1.67   | 5.56   | 0.38                                       | 0.27         | 0.20         |
| 10            |     |       |         | 2            | 4.05  | 1.61   | 1.33   | 0.36   | 3.46   | 0.40                                       | 0.33         | 0.09         |
|               | 139 |       |         | 2            | 4.01  | 1.80   | 1.38   | 0.26   | 4.17   | 0.43                                       | 0.33         | 0.06         |
| 10            | 139 |       |         | 4            | 8.20  | 3.56   | 3.44   | 0.99   | 8.58   | 0.41                                       | 0.40         | 0.12         |
| 11            |     |       |         | 2            | 3.91  | 1.40   | 1.78   | 0.12   | 4.58   | 0.30                                       | 0.39         | 0.03         |
|               | 138 |       |         | 2            | 4.35  | 1.84   | 1.35   | 0.20   | 4.17   | 0.42                                       | 0.31         | 0.05         |
| 11            | 138 |       |         | 4            | 10.53   | 4.20   | 4.06   | 0.58   | 9.48   | 0.40                                       | 0.39         | 0.05         |
| 21            |     |       |         | 4            | 5.65  | 2.29   | 2.56   | 1.03   | 7.00   | 0.33                                       | 0.36         | 0.15         |
|               | 145 |       |         | 4            | 6.33  | 2.98   | 1.69   | 0.88   | 4.96   | 0.47                                       | 0.27         | 0.14         |
| 21            | 145 |       |         | 8            | 13.76   | 5.68   | 4.40   | 2.04   | 12.95  | 0.41                                       | 0.32         | 0.15         |
| 20            |     |       |         | 4            | 7.99  | 3.65   | 4.15   | 0.31   | 9.52   | 0.38                                       | 0.44         | 0.03         |
|               | 146 |       |         | 4            | 7.95  | 3.89   | 3.32   | 0.22   | 8.56   | 0.45                                       | 0.39         | 0.03         |
| 20            | 146 |       |         | 8            | 18.11   | 8.62   | 8.89   | 0.58   | 22.12  | 0.39                                       | 0.40         | 0.03         |
| 19            |     |       |         | 4            | 9.79  | 4.74   | 3.51   | 0.13   | 9.61   | 0.48                                       | 0.36         | 0.01         |
|               | 147 |       |         | 4            | 7.13  | 3.52   | 3.67   | 0.11   | 8.66   | 0.41                                       | 0.42         | 0.01         |
| 19            | 147 |       |         | 8            | 21.18   | 10.59  | 8.81   | 0.37   | 23.00  | 0.46                                       | 0.38         | 0.02         |
| 17            |     |       |         | 4            | 5.36  | 1.78   | 1.64   | 0.81   | 4.22   | 0.33                                       | 0.31         | 0.15         |
|               | 149 |       |         | 4            | 5.67  | 2.28   | 1.57   | 0.64   | 5.40   | 0.40                                       | 0.28         | 0.11         |
| 17            | 149 |       |         | 8            | 13.99   | 5.34   | 3.88   | 1.82   | 10.28  | 0.38                                       | 0.28         | 0.13         |
| 18            |     | 4     | 8.24    | 4.13         | 2.88  | 0.38   | 7.61   | 0.50   | 0.35   | 0.05                                       |              |              |
|               | 148 | 4     | 7.05    | 3.02         | 3.23  | 0.38   | 7.85   | 0.38   | 0.41   | 0.05                                       |              |              |
| 18            | 148 | 8     | 17.46   | 8.30         | 6.45  | 1.24   | 17.44  | 0.47   | 0.37   | 0.07                                       |              |              |
| 28            |     | 4     | 8.96    | 4.36         | 3.80  | 0.14   | 9.46   | 0.46   | 0.40   | 0.01                                       |              |              |
|               | 155 | 4     | 7.51    | 3.63         | 3.59  | 0.09   | 8.65   | 0.42   | 0.42   | 0.01                                       |              |              |
| 28            | 155 | 8     | 19.51   | 9.68         | 9.14  | 0.27   | 22.53  | 0.43   | 0.41   | 0.01                                       |              |              |
| 27            |     | 4     | 9.34    | 4.58         | 3.55  | 0.22   | 9.41   | 0.49   | 0.38   | 0.02                                       |              |              |
|               | 156 | 4     | 7.74    | 3.68         | 3.54  | 0.17   | 8.99   | 0.41   | 0.39   | 0.02                                       |              |              |
| 27            | 156 | 8     | 20.75   | 10.07        | 8.50  | 0.58   | 22.77  | 0.44   | 0.37   | 0.03                                       |              |              |
| 26            |     | 4     | 6.60    | 2.57         | 2.33  | 0.66   | 6.03   | 0.39   | 0.35   | 0.10                                       |              |              |
|               | 157 | 4     | 5.93    | 2.48         | 2.33  | 0.52   | 6.38   | 0.39   | 0.37   | 0.08                                       |              |              |
| 26            | 157 | 8     | 15.34   | 6.71         | 5.10  | 1.68   | 13.40  | 0.44   | 0.33   | 0.11                                       |              |              |
| 29            |     | 4     | 6.58    | 2.66         | 3.40  | 0.92   | 8.35   | 0.32   | 0.41   | 0.11                                       |              |              |
|               | 154 | 4     | 7.38    | 3.57         | 2.85  | 0.40   | 7.52   | 0.47   | 0.38   | 0.05                                       |              |              |
| 29            | 154 | 8     | 15.28   | 6.75         | 6.74  | 1.63   | 17.42  | 0.39   | 0.39   | 0.09                                       |              |              |

Table 2-11 Simulated averaged PD over 4 [cm<sup>2</sup>] area at n261 - Mid Channel - Module1.

| n261 - MID CH |     |       |         |              | Averaged PD over 4 [cm <sup>2</sup> ] area in [w/m <sup>2</sup> ] |        |        |        | (PD exposure surface) / (PD worst surface) |              |
|---------------|-----|-------|---------|--------------|---|--------|--------|--------|--|--------------|
|               |     |       |         |              | Module1   |        |        |        | Module1 (Ratio)                            |              |
| Beam ID       |     | Type  | Pin     | No. of feeds | (2mm)   | (10mm) | (10mm) | (10mm) | (10mm)                                     | (10mm)       |
| AG0           | AG1 |       |         |              | S1  | S1     | S2     | S4     | S1/(worst S)                               | S2/(worst S) |
| 0             |     | Patch | 6 [dBm] | 1            | 1.72  | 0.49   | 0.67   | 1.94   | 0.25                                       | 0.35         |
|               | 128 |       |         | 1            | 1.76  | 0.49   | 0.75   | 2.01   | 0.25                                       | 0.37         |
| 0             | 128 |       |         | 2            | 4.14  | 1.19   | 1.54   | 4.66   | 0.26                                       | 0.33         |
| 2             |     |       |         | 2            | 2.89  | 0.86   | 1.00   | 2.73   | 0.30                                       | 0.34         |
|               | 132 |       |         | 2            | 2.49  | 0.78   | 1.39   | 2.93   | 0.27                                       | 0.47         |
| 2             | 132 |       |         | 4            | 6.46  | 2.26   | 2.62   | 6.36   | 0.35                                       | 0.41         |
| 3             |     |       |         | 2            | 4.49  | 1.94   | 1.51   | 4.82   | 0.40                                       | 0.31         |
|               | 131 |       |         | 2            | 3.93  | 1.43   | 1.91   | 4.97   | 0.29                                       | 0.38         |
| 3             | 131 |       |         | 4            | 10.28   | 4.12   | 4.04   | 10.01  | 0.40                                       | 0.39         |
| 4             |     |       |         | 2            | 2.94  | 1.09   | 0.88   | 2.37   | 0.37                                       | 0.30         |
|               | 130 |       |         | 2            | 4.19  | 1.54   | 1.24   | 3.94   | 0.37                                       | 0.30         |
| 4             | 130 |       |         | 4            | 7.74  | 2.97   | 2.75   | 7.17   | 0.38                                       | 0.36         |
| 8             |     |       |         | 2            | 4.37  | 1.87   | 1.34   | 4.28   | 0.43                                       | 0.31         |
|               | 137 |       |         | 2            | 3.11  | 1.17   | 1.17   | 3.32   | 0.35                                       | 0.35         |
| 8             | 137 |       |         | 4            | 7.84  | 3.26   | 3.16   | 8.31   | 0.39                                       | 0.38         |
| 9             |     |       |         | 2            | 3.25  | 1.21   | 1.39   | 3.76   | 0.32                                       | 0.37         |
|               | 136 |       |         | 2            | 4.32  | 1.57   | 1.72   | 4.96   | 0.32                                       | 0.35         |
| 9             | 136 |       |         | 4            | 9.07  | 3.65   | 3.65   | 8.94   | 0.40                                       | 0.40         |
| 14            |     |       |         | 4            | 7.84  | 3.66   | 4.67   | 10.09  | 0.36                                       | 0.46         |
|               | 141 |       |         | 4            | 8.82  | 4.09   | 3.48   | 9.42   | 0.43                                       | 0.37         |
| 14            | 141 |       |         | 4            | 20.26   | 9.40   | 8.88   | 23.28  | 0.40                                       | 0.38         |
| 12            |     |       |         | 4            | 7.64  | 3.37   | 3.21   | 8.38   | 0.40                                       | 0.38         |
|               | 143 |       |         | 4            | 6.56  | 2.86   | 3.66   | 8.29   | 0.34                                       | 0.44         |
| 12            | 143 |       |         | 8            | 15.91   | 7.05   | 8.18   | 18.20  | 0.39                                       | 0.45         |
| 13            |     |       |         | 4            | 9.03  | 4.22   | 3.56   | 9.76   | 0.43                                       | 0.36         |
|               | 142 |       |         | 4            | 7.55  | 3.41   | 3.81   | 8.67   | 0.39                                       | 0.44         |
| 13            | 142 |       |         | 8            | 19.65   | 9.03   | 8.91   | 22.95  | 0.39                                       | 0.39         |
| 15            |     |       |         | 4            | 5.79  | 2.53   | 3.10   | 7.67   | 0.33                                       | 0.40         |
|               | 140 |       |         | 4            | 7.46  | 3.26   | 2.50   | 7.50   | 0.43                                       | 0.33         |
| 15            | 140 |       |         | 8            | 14.12   | 6.02   | 6.73   | 16.41  | 0.37                                       | 0.41         |
| 16            |     | 4     | 4.72    | 1.54         | 1.62  | 4.54   | 0.33   | 0.34   |  |              |
|               | 144 | 4     | 4.32    | 1.42         | 1.90  | 5.10   | 0.28   | 0.37   |  |              |
| 16            | 144 | 8     | 11.33   | 3.43         | 4.19  | 9.11   | 0.30   | 0.37   |  |              |
| 23            |     | 4     | 8.82    | 4.07         | 3.94  | 9.82   | 0.41   | 0.40   |  |              |
|               | 151 | 4     | 8.46    | 3.92         | 3.56  | 9.13   | 0.43   | 0.39   |  |              |
| 23            | 151 | 8     | 20.74   | 9.62         | 8.89  | 23.45  | 0.41   | 0.38   |  |              |
| 22            |     | 4     | 8.45    | 3.86         | 3.42  | 9.33   | 0.41   | 0.37   |  |              |
|               | 152 | 4     | 6.89    | 3.06         | 4.18  | 8.73   | 0.35   | 0.48   |  |              |
| 22            | 152 | 8     | 18.20   | 8.35         | 9.44  | 21.82  | 0.38   | 0.43   |  |              |
| 24            |     | 4     | 7.06    | 3.23         | 3.84  | 8.93   | 0.36   | 0.43   |  |              |
|               | 150 | 4     | 8.29    | 3.89         | 3.22  | 8.88   | 0.44   | 0.36   |  |              |
| 24            | 150 | 8     | 16.99   | 7.72         | 7.72  | 18.23  | 0.42   | 0.42   |  |              |
| 25            |     | 4     | 4.61    | 1.91         | 2.29  | 6.30   | 0.30   | 0.36   |  |              |
|               | 153 | 4     | 6.12    | 2.59         | 3.03  | 7.72   | 0.33   | 0.39   |  |              |
| 25            | 153 | 8     | 11.17   | 4.17         | 4.28  | 9.54   | 0.37   | 0.38   |  |              |

Table 2-12 Simulated averaged PD over 4 [cm<sup>2</sup>] area at n261 - High Channel - Module0.

| n261 - HIGH CH |     |       |         |              | Averaged PD over 4 [cm <sup>2</sup> ] area in [w/m <sup>2</sup> ] |        |        |        |        | (PD exposure surface) / (PD worst surface) |              |              |
|----------------|-----|-------|---------|--------------|---|--------|--------|--------|--------|--|--------------|--------------|
| Beam ID        |     | Type  | Pin     | No. of feeds | Module0   |        |        |        |        | Module0 (Ratio)                            |              |              |
| AG0            | AG1 |       |         |              | (2mm)   | (10mm) | (10mm) | (10mm) | (10mm) | (10mm)                                     | (10mm)       | (10mm)       |
|                |     |       |         |              | S1  | S1     | S2     | S3     | S5     | S1/(worst S)                               | S2/(worst S) | S3/(worst S) |
| 1              |     | Patch | 6 [dBm] | 1            | 1.52  | 0.40   | 0.64   | 0.21   | 1.70   | 0.23                                       | 0.38         | 0.13         |
|                | 129 |       |         | 1            | 2.25  | 0.78   | 0.46   | 0.10   | 1.85   | 0.35                                       | 0.21         | 0.04         |
| 1              | 129 |       |         | 2            | 5.06  | 1.63   | 1.53   | 0.49   | 3.78   | 0.32                                       | 0.30         | 0.10         |
| 6              |     |       |         | 2            | 3.96  | 1.43   | 1.44   | 0.17   | 4.26   | 0.34                                       | 0.34         | 0.04         |
|                | 134 |       |         | 2            | 4.37  | 1.90   | 1.64   | 0.05   | 4.77   | 0.40                                       | 0.34         | 0.01         |
| 6              | 134 |       |         | 4            | 11.13   | 4.61   | 4.13   | 0.30   | 9.99   | 0.41                                       | 0.37         | 0.03         |
| 7              |     |       |         | 2            | 3.03  | 0.99   | 1.56   | 0.23   | 3.66   | 0.27                                       | 0.43         | 0.06         |
|                | 133 |       |         | 2            | 2.72  | 0.95   | 0.74   | 0.25   | 2.01   | 0.35                                       | 0.27         | 0.09         |
| 7              | 133 |       |         | 4            | 7.56  | 2.74   | 3.01   | 0.69   | 6.72   | 0.36                                       | 0.40         | 0.09         |
| 5              |     |       |         | 2            | 2.45  | 0.76   | 1.00   | 0.61   | 2.12   | 0.31                                       | 0.41         | 0.25         |
|                | 135 |       |         | 2            | 3.54  | 1.38   | 1.12   | 0.34   | 3.23   | 0.39                                       | 0.32         | 0.10         |
| 5              | 135 |       |         | 4            | 8.97  | 3.47   | 2.43   | 1.65   | 5.13   | 0.39                                       | 0.27         | 0.18         |
| 10             |     |       |         | 2            | 3.37  | 1.31   | 1.32   | 0.38   | 3.23   | 0.39                                       | 0.39         | 0.11         |
|                | 139 |       |         | 2            | 3.78  | 1.67   | 1.48   | 0.24   | 4.12   | 0.41                                       | 0.36         | 0.06         |
| 10             | 139 |       |         | 4            | 7.91  | 3.27   | 3.79   | 0.98   | 8.52   | 0.38                                       | 0.44         | 0.11         |
| 11             |     |       |         | 2            | 3.61  | 1.23   | 1.66   | 0.12   | 4.30   | 0.29                                       | 0.38         | 0.03         |
|                | 138 |       |         | 2            | 4.23  | 1.79   | 1.23   | 0.20   | 3.96   | 0.42                                       | 0.29         | 0.05         |
| 11             | 138 |       |         | 4            | 10.18   | 3.99   | 3.68   | 0.56   | 8.64   | 0.39                                       | 0.36         | 0.05         |
| 21             |     |       |         | 4            | 5.88  | 2.53   | 2.06   | 0.91   | 6.34   | 0.40                                       | 0.33         | 0.14         |
|                | 145 |       |         | 4            | 6.28  | 2.98   | 1.29   | 0.85   | 4.65   | 0.47                                       | 0.21         | 0.14         |
| 21             | 145 |       |         | 8            | 13.69   | 5.61   | 4.02   | 1.99   | 12.25  | 0.41                                       | 0.29         | 0.15         |
| 20             |     |       |         | 4            | 7.59  | 3.41   | 3.81   | 0.24   | 9.14   | 0.37                                       | 0.42         | 0.03         |
|                | 146 |       |         | 4            | 7.11  | 3.40   | 3.27   | 0.20   | 7.99   | 0.43                                       | 0.41         | 0.02         |
| 20             | 146 |       |         | 8            | 16.35   | 7.66   | 8.19   | 0.49   | 20.55  | 0.37                                       | 0.40         | 0.02         |
| 19             |     |       |         | 4            | 9.17  | 4.50   | 3.37   | 0.15   | 9.00   | 0.49                                       | 0.37         | 0.02         |
|                | 147 |       |         | 4            | 6.47  | 3.00   | 3.78   | 0.12   | 8.58   | 0.35                                       | 0.44         | 0.01         |
| 19             | 147 |       |         | 8            | 19.02   | 9.51   | 8.81   | 0.39   | 21.64  | 0.44                                       | 0.41         | 0.02         |
| 17             |     |       |         | 4            | 5.37  | 1.86   | 1.44   | 0.75   | 4.45   | 0.35                                       | 0.27         | 0.14         |
|                | 149 |       |         | 4            | 5.43  | 2.21   | 1.51   | 0.63   | 5.10   | 0.41                                       | 0.28         | 0.12         |
| 17             | 149 |       |         | 8            | 14.45   | 5.68   | 3.18   | 1.83   | 10.17  | 0.39                                       | 0.22         | 0.13         |
| 18             |     |       |         | 4            | 7.08  | 3.56   | 2.78   | 0.50   | 6.97   | 0.50                                       | 0.39         | 0.07         |
|                | 148 |       |         | 4            | 6.49  | 2.68   | 2.78   | 0.37   | 7.15   | 0.37                                       | 0.39         | 0.05         |
| 18             | 148 | 8     | 15.07   | 7.16         | 6.43  | 1.46   | 14.74  | 0.48   | 0.43   | 0.10                                       |              |              |
| 28             |     | 4     | 8.47    | 4.05         | 3.84  | 0.13   | 9.25   | 0.44   | 0.42   | 0.01                                       |              |              |
|                | 155 | 4     | 6.80    | 3.18         | 3.64  | 0.11   | 8.52   | 0.37   | 0.43   | 0.01                                       |              |              |
| 28             | 155 | 8     | 17.71   | 8.56         | 9.00  | 0.30   | 21.61  | 0.40   | 0.42   | 0.01                                       |              |              |
| 27             |     | 4     | 8.64    | 4.25         | 3.29  | 0.24   | 8.65   | 0.49   | 0.38   | 0.03                                       |              |              |
|                | 156 | 4     | 6.80    | 3.05         | 3.55  | 0.21   | 8.46   | 0.36   | 0.42   | 0.02                                       |              |              |
| 27             | 156 | 8     | 18.28   | 8.95         | 8.29  | 0.66   | 20.60  | 0.43   | 0.40   | 0.03                                       |              |              |
| 26             |     | 4     | 6.41    | 2.46         | 2.08  | 0.74   | 6.03   | 0.38   | 0.33   | 0.12                                       |              |              |
|                | 157 | 4     | 5.62    | 2.42         | 2.00  | 0.46   | 5.86   | 0.41   | 0.34   | 0.08                                       |              |              |
| 26             | 157 | 8     | 15.51   | 6.90         | 5.14  | 1.69   | 13.18  | 0.45   | 0.33   | 0.11                                       |              |              |
| 29             |     | 4     | 6.69    | 2.82         | 2.75  | 0.77   | 7.56   | 0.37   | 0.36   | 0.10                                       |              |              |
|                | 154 | 4     | 7.10    | 3.40         | 2.63  | 0.36   | 6.99   | 0.48   | 0.37   | 0.05                                       |              |              |
| 29             | 154 | 8     | 15.49   | 6.99         | 6.42  | 1.27   | 15.82  | 0.44   | 0.41   | 0.08                                       |              |              |

Table 2-13 Simulated averaged PD over 4 [cm<sup>2</sup>] area at n261 - High Channel - Module1.

| n261 - HIGH CH |     |       |         |              | Averaged PD over 4 [cm^2] area in [w/m^2] |        |        |        | (PD exposure surface) / (PD worst surface) |              |
|----------------|-----|-------|---------|--------------|---|--------|--------|--------|--|--------------|
|                |     |       |         |              | Module1                                   |        |        |        | Module1 (Ratio)                            |              |
| Beam ID        |     |       |         |              | (2mm)                                     | (10mm) | (10mm) | (10mm) | (10mm)                                     | (10mm)       |
| AG0            | AG1 | Type  | Pin     | No. of feeds | S1  | S1     | S2     | S4     | S1/(worst S)                               | S2/(worst S) |
| 0              |     | Patch | 6 [dBm] | 1            | 1.50                                      | 0.42   | 0.70   | 1.89   | 0.22                                       | 0.37         |
|                | 128 |       |         | 1            | 1.56                                      | 0.44   | 0.74   | 1.83   | 0.24                                       | 0.41         |
| 0              | 128 |       |         | 2            | 3.56                                      | 1.05   | 1.59   | 4.29   | 0.24                                       | 0.37         |
| 2              |     |       |         | 2            | 2.61                                      | 0.77   | 0.94   | 2.63   | 0.29                                       | 0.36         |
|                | 132 |       |         | 2            | 2.13                                      | 0.67   | 1.41   | 2.85   | 0.24                                       | 0.49         |
| 2              | 132 |       |         | 4            | 5.65                                      | 2.05   | 2.42   | 6.22   | 0.33                                       | 0.39         |
| 3              |     |       |         | 2            | 4.60                                      | 2.05   | 1.30   | 4.61   | 0.44                                       | 0.28         |
|                | 131 |       |         | 2            | 3.58                                      | 1.30   | 2.01   | 4.79   | 0.27                                       | 0.42         |
| 3              | 131 |       |         | 4            | 10.30                                     | 4.33   | 4.14   | 9.74   | 0.42                                       | 0.40         |
| 4              |     |       |         | 2            | 2.85                                      | 1.01   | 0.96   | 2.35   | 0.35                                       | 0.34         |
|                | 130 |       |         | 2            | 4.11                                      | 1.54   | 1.24   | 3.86   | 0.37                                       | 0.30         |
| 4              | 130 |       |         | 4            | 7.31                                      | 2.81   | 2.97   | 7.40   | 0.38                                       | 0.40         |
| 8              |     |       |         | 2            | 4.48                                      | 2.01   | 1.06   | 4.07   | 0.45                                       | 0.24         |
|                | 137 |       |         | 2            | 3.09                                      | 1.20   | 1.04   | 3.12   | 0.38                                       | 0.33         |
| 8              | 137 |       |         | 4            | 8.13                                      | 3.51   | 2.67   | 8.15   | 0.43                                       | 0.33         |
| 9              |     |       |         | 2            | 3.06                                      | 1.23   | 1.52   | 3.70   | 0.33                                       | 0.41         |
|                | 136 |       |         | 2            | 4.18                                      | 1.54   | 1.79   | 4.83   | 0.32                                       | 0.37         |
| 9              | 136 |       |         | 4            | 8.52                                      | 3.56   | 4.13   | 9.29   | 0.38                                       | 0.44         |
| 14             |     |       |         | 4            | 7.44                                      | 3.46   | 4.50   | 9.51   | 0.36                                       | 0.47         |
|                | 141 |       |         | 4            | 8.53                                      | 3.98   | 3.30   | 9.03   | 0.44                                       | 0.36         |
| 14             | 141 |       |         | 4            | 19.27                                     | 9.00   | 8.07   | 21.31  | 0.42                                       | 0.38         |
| 12             |     |       |         | 4            | 7.87                                      | 3.50   | 2.63   | 8.00   | 0.44                                       | 0.33         |
|                | 143 |       |         | 4            | 5.87                                      | 2.47   | 3.46   | 7.49   | 0.33                                       | 0.46         |
| 12             | 143 |       |         | 8            | 14.84                                     | 6.45   | 6.88   | 16.65  | 0.39                                       | 0.41         |
| 13             |     |       |         | 4            | 8.54                                      | 3.91   | 3.27   | 9.02   | 0.43                                       | 0.36         |
|                | 142 |       |         | 4            | 7.29                                      | 3.41   | 3.59   | 8.18   | 0.42                                       | 0.44         |
| 13             | 142 |       |         | 8            | 18.65                                     | 8.70   | 8.13   | 21.37  | 0.41                                       | 0.38         |
| 15             |     |       |         | 4            | 5.20                                      | 2.25   | 3.03   | 7.30   | 0.31                                       | 0.42         |
|                | 140 |       |         | 4            | 7.29                                      | 3.17   | 2.15   | 7.08   | 0.44                                       | 0.30         |
| 15             | 140 |       |         | 8            | 13.24                                     | 5.88   | 6.63   | 16.06  | 0.37                                       | 0.41         |
| 16             |     | 4     | 4.49    | 1.49         | 1.64                                      | 4.56   | 0.33   | 0.36   |  |              |
|                | 144 | 4     | 4.30    | 1.43         | 1.80                                      | 5.04   | 0.28   | 0.36   |  |              |
| 16             | 144 | 8     | 10.74   | 3.46         | 3.97                                      | 9.05   | 0.32   | 0.37   |  |              |
| 23             |     | 4     | 8.09    | 3.66         | 3.72                                      | 9.01   | 0.41   | 0.41   |  |              |
|                | 151 | 4     | 8.17    | 3.85         | 3.36                                      | 8.66   | 0.44   | 0.39   |  |              |
| 23             | 151 | 8     | 19.44   | 9.12         | 8.23                                      | 21.40  | 0.43   | 0.38   |  |              |
| 22             |     | 4     | 8.57    | 3.90         | 2.89                                      | 8.83   | 0.44   | 0.33   |  |              |
|                | 152 | 4     | 6.38    | 2.79         | 4.04                                      | 8.13   | 0.34   | 0.50   |  |              |
| 22             | 152 | 8     | 17.13   | 7.81         | 8.10                                      | 20.38  | 0.38   | 0.40   |  |              |
| 24             |     | 4     | 6.28    | 2.87         | 3.92                                      | 8.42   | 0.34   | 0.47   |  |              |
|                | 150 | 4     | 8.07    | 3.83         | 2.90                                      | 8.38   | 0.46   | 0.35   |  |              |
| 24             | 150 | 8     | 15.38   | 7.12         | 7.76                                      | 17.24  | 0.41   | 0.45   |  |              |
| 25             |     | 4     | 4.24    | 1.74         | 2.20                                      | 6.02   | 0.29   | 0.37   |  |              |
|                | 153 | 4     | 5.49    | 2.31         | 2.74                                      | 6.96   | 0.33   | 0.39   |  |              |
| 25             | 153 | 8     | 10.09   | 3.76         | 3.83                                      | 8.77   | 0.37   | 0.38   |  |              |