|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SNR = 20 dBM | Matlab | | Python | |  |
| Activity Statistic | Average | Cumulants(First-order) | Average | Cumulants(First-order) |  |
| 0.1 | 0.9017 | 0.9204 |  | 0.9407 |  |
| 0.2 | 0.9028 | 0.9165 |  | 0.8975 |  |
| 0.3 | 0.9030 | 0.9175 |  | 0.8581 |  |
| 0.4 | 0.9045 | 0.9173 |  | 0.8206 |  |
| 0.5 | 0.9015 | 0.9173 |  | 0.7863 |  |
| 0.6 | 0.8971 | 0.9192 |  | 0.7538 |  |
| 0.7 | 0.9038 | 0.9148 |  | 0.7196 |  |
| 0.8 | 0.9082 | 0.9189 |  | 0.6871 |  |
| 0.9 | 0.9098 | 0.9155 |  | 0.6470 |  |

Conventional

Predictive

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SNR = 20 dBM | Matlab | | Python | |
| Activity Statistic | Average | Cumulants (First-order) | Average | Cumulants (First-order) |
| 0.1 | 0.9877 | 0.9897 |  | 0.9692 |
| 0.2 | 0.9878 | 0.9894 |  | 0.9658 |
| 0.3 | 0.9882 | 0.9895 |  | 0.9645 |
| 0.4 | 0.9859 | 0.98945 |  | 0.9715 |
| 0.5 | 00.9857 | 0.9894 |  | 0.9707 |
| 0.6 | 0.9877 | 0.9896 |  | 0.9689 |
| 0.7 | 0.9879 | 0.9893 |  | 0.9715 |
| 0.8 | 0.9869 | 0.9894 |  | 0.9764 |
| 0.9 | 0.9880 | 0.9895 |  | 0.9781 |