A Non-stationary Fading Channel Model for Simulation and (Semi-) Analytical Study of ELAA-MIMO (Original Data)

Jiuyu Liu, Yi Ma, Na Yi, and Rahim Tafazolli

I. Tables of Linear Regression Results

Here is the table list of linear regression results:

1) TABLE I: $N_{\text{UE}} = 4$, and $M = 2,000$.
2) TABLE II: $N_{\text{UE}} = 4$, and $M = 200,000$.
3) TABLE III: $N_{\text{UE}} = 8$, and $M = 2,000$.
4) TABLE IV: $N_{\text{UE}} = 8$, and $M = 200,000$.

TABLE I

Linear regression results. $N_{\text{UE}} = 4$, and $M = 2,000$.

		Case	**Case 1**			**Case 2**			**Case 3**		
		$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Gaussian Distribution	θ_1	a	6.642	6.642	6.641	6.642	6.642	6.641	6.642	6.642	6.641
		c	130.2	128.1	119.3	130.0	126.3	118.5	130.3	126.1	117.7
	θ_2	$a \times 10^6$	192.5	809.7	1726	187.7	660.7	1310	149.2	469.7	924.0
		c	3.513	9.797	16.61	3.521	7.720	12.51	2.943	5.172	8.095
Weibull Distribution	θ_1	a	6.643	6.646	6.652	6.643	6.644	6.648	6.643	6.643	6.644
		c	131.9	132.3	126.4	131.7	129.7	124.1	131.7	128.5	121.5
	θ_2	a	1.804	0.8830	0.4899	1.637	1.054	0.6158	2.100	1.454	0.8882
		c	36.49	17.16	8.972	33.55	20.36	11.33	42.32	28.19	16.33
Skew Normal Distribution	θ_1	a	6.643	6.643	6.643	6.643	6.643	6.642	6.643	6.642	6.641
		c	130.6	138.5	133.7	130.1	132.4	126.0	130.1	128.7	120.2
	θ_2	$a \times 10^7$	204.0	172.5	495.5	217.7	255.0	470.2	161.6	266.1	382.5
		$c \times 10^2$	7.261	75.15	56.80	1.647	52.95	38.14	-3.667	31.91	18.67
	θ_3	$a \times 10^6$	189.0	642.0	1429	186.9	576.5	1186	150.1	440.8	892.8
		c	3.507	8.727	15.67	3.520	7.281	12.17	2.942	5.062	8.036

TABLE II

LINEAR REGRESSION RESULTS. $N_{\text{UE}} = 4$, AND $M = 200,000$.

		Case	**Case 1**			**Case 2**			**Case 3**		
		$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Gaussian Distribution	θ_1	a	6.644	6.644	6.644	6.644	6.644	6.644	6.644	6.644	6.644
		c	262.7	262.4	258.7	262.6	261.6	258.8	262.9	261.4	258.2
	θ_2	$a \times 10^6$	1.922	6.405	10.57	1.875	4.999	7.829	1.472	3.512	5.286
		c	3.536	8.575	12.82	3.435	6.573	9.594	2.837	4.447	6.184
Weibull Distribution	θ_1	a	6.644	6.645	6.647	6.644	6.645	6.645	6.644	6.644	6.645
		c	264.4	266.2	264.6	264.3	264.6	263.2	264.3	263.6	261.1
	θ_2	a	1.564	0.9838	0.613	1.807	1.215	0.7892	2.068	1.649	1.151
		c	63.83	39.03	24.16	72.5	48.15	31.14	83.22	65.43	45.29
Skew Normal Distribution	θ_1	a	6.644	6.644	6.644	6.644	6.644	6.644	6.644	6.644	6.644
		c	263.0	270.1	267.3	262.8	266.2	263.5	262.7	263.1	259.7
	θ_2	$a \times 10^7$	1.979	2.240	4.250	2.118	2.554	3.406	1.552	2.261	2.516
		$c \times 10^2$	4.767	60.89	43.26	4.075	45.75	31.34	-4.420	24.35	15.90
	θ_3	$a \times 10^6$	1.902	5.341	9.207	1.848	4.447	7.211	1.489	3.370	5.161
		c	3.534	7.911	12.37	3.433	6.285	9.398	2.835	4.386	6.151

TABLE III

LINEAR REGRESSION RESULTS. $N_{\text{UE}} = 8$, AND $M = 2,000$.

		Case	**Case 1**			**Case 2**			**Case 3**		
		$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Gaussian Distribution	θ_1	a	13.28	13.28	13.27	13.28	13.28	13.27	13.28	13.28	13.27
		c	217.7	210.5	191.2	217.2	206.6	189.3	217.8	206.7	188.2
	θ_2	$a \times 10^6$	868.9	3428	6971	838.9	2921	5343	656	2037	3741
		c	7.223	19.48	32.19	7.021	15.66	24.09	5.772	10.31	15.52
Weibull Distribution	θ_1	a	13.28	13.29	13.3	13.28	13.28	13.29	13.28	13.28	13.28
		c	221.2	219	205.1	220.6	213.6	200	220.6	211.6	195.4
	θ_2	a	1.74	0.8648	0.4861	1.664	1.021	0.6181	2.108	1.433	0.9059
		c	29.76	13.94	7.267	28.74	16.31	9.269	35.98	23.04	13.55
Skew Normal Distribution	θ_1	a	13.28	13.28	13.28	13.28	13.28	13.28	13.28	13.28	13.28
		c	218.6	232.1	214.9	217.6	219.2	200.5	217.9	211.3	192
	θ_2	$a \times 10^7$	455.5	273.5	1028	492.5	486.1	879.7	361.2	454	679.6
		$c \times 10^2$	8.602	76.02	46.79	3.353	52.46	29.22	0.6712	28.11	15.31
	θ_3	$a \times 10^6$	849.5	2859	6103	831.1	2621	4998	655.2	1949	3652
		c	7.206	17.59	31.03	7.018	14.87	23.69	5.772	10.14	15.45

TABLE IV

LINEAR REGRESSION RESULTS. $N_{\text{UE}} = 8$, AND $M = 200,000$.

		Case	**Case 1**			**Case 2**			**Case 3**		
		$d_{\perp}$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Gaussian Distribution	θ_1	a	13.29	13.29	13.29	13.29	13.29	13.29	13.29	13.29	13.29
		c	481.2	476.9	465.9	482.8	479.6	471.1	483	479.4	470.4
	θ_2	$a \times 10^6$	8.092	34.89	52.48	7.583	24.37	34.92	6.523	16.17	23.41
		c	6.162	18.83	27.23	6.12	13.9	19.42	5.669	9.17	12.56
Weibull Distribution	θ_1	a	13.29	13.29	13.3	13.29	13.29	13.29	13.29	13.29	13.29
		c	484	485.2	478.5	485.7	486	480.2	485.9	483.8	476.4
	θ_2	a	2.161	0.924	0.5595	2.172	1.161	0.7595	2.127	1.589	1.124
		c	79.51	33.23	19.95	79.84	42.2	27.36	78.51	57.93	40.36
Skew Normal Distribution	θ_1	a	13.29	13.29	13.29	13.29	13.29	13.29	13.29	13.29	13.29
		c	483.2	496.3	480.6	483.9	490	478.4	482.6	483	473.1
	θ_2	$a \times 10^7$	4.051	4.035	8.689	4.38	5.113	6.396	3.571	4.162	4.412
		$c \times 10^2$	22.26	73.1	33.9	12.06	49.46	23.58	-4.781	24.6	13.52
	θ_3	$a \times 10^6$	7.56	28	48.41	7.349	21.74	33.29	6.551	15.54	22.99
		c	6.061	16.76	26.66	6.093	13.19	19.2	5.665	9.049	12.51

II. FIGURES OF LINEAR REGRESSION

Here is the figure list of linear regression:

1) Fig. 1: θ_1 of the skew normal distribution.
2) Fig. 2: θ_2 of the skew normal distribution.
3) Fig. 3: θ_3 of the skew normal distribution.
4) Fig. 4: θ_1 of the Gaussian distribution.
5) Fig. 5: θ_2 of the Gaussian distribution.
6) Fig. 6: θ_1 of the Weibull distribution.
7) Fig. 7: θ_2 of the Weibull distribution.

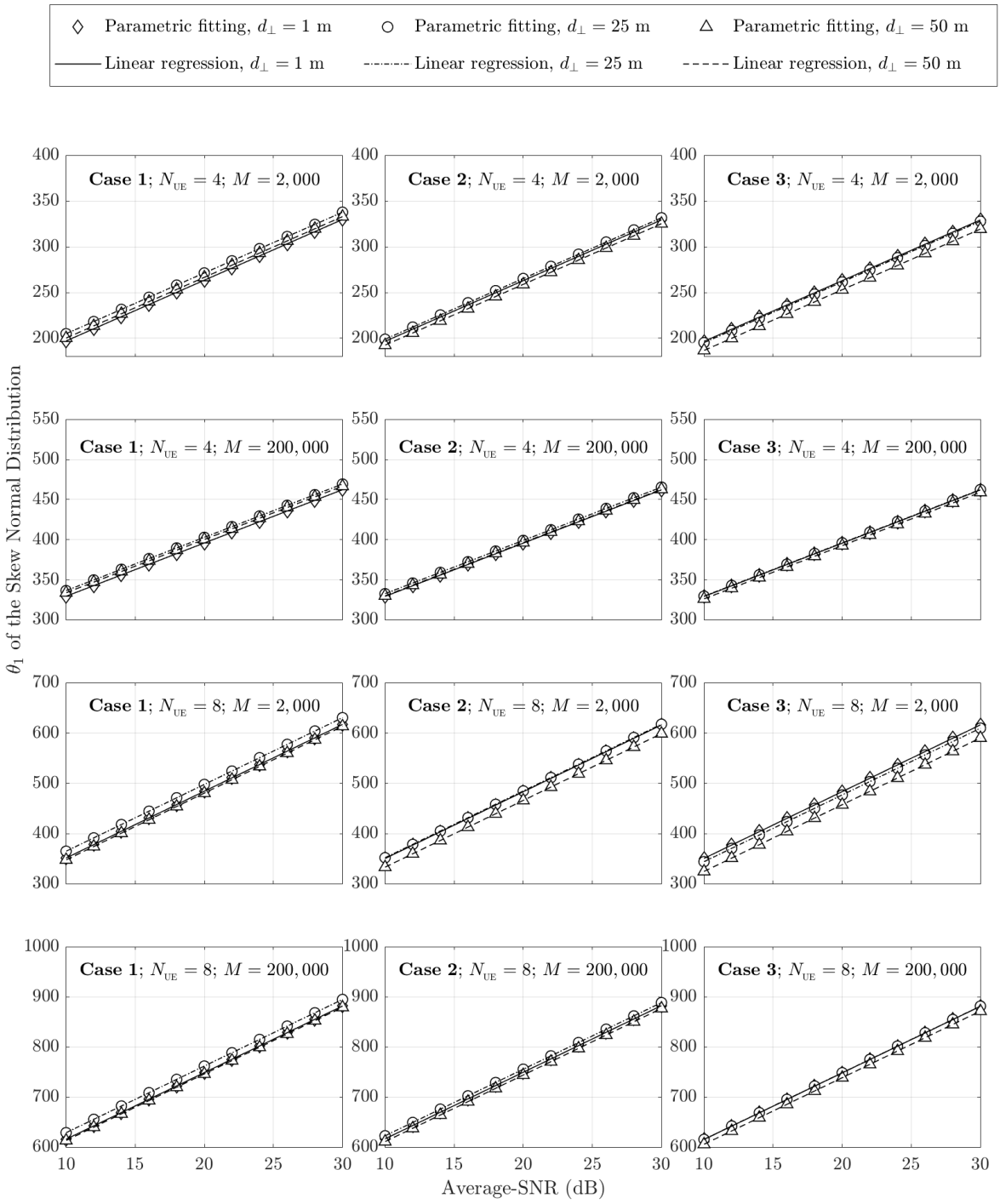

Fig. 1. Linear regression: θ_1 of the skew normal distribution.

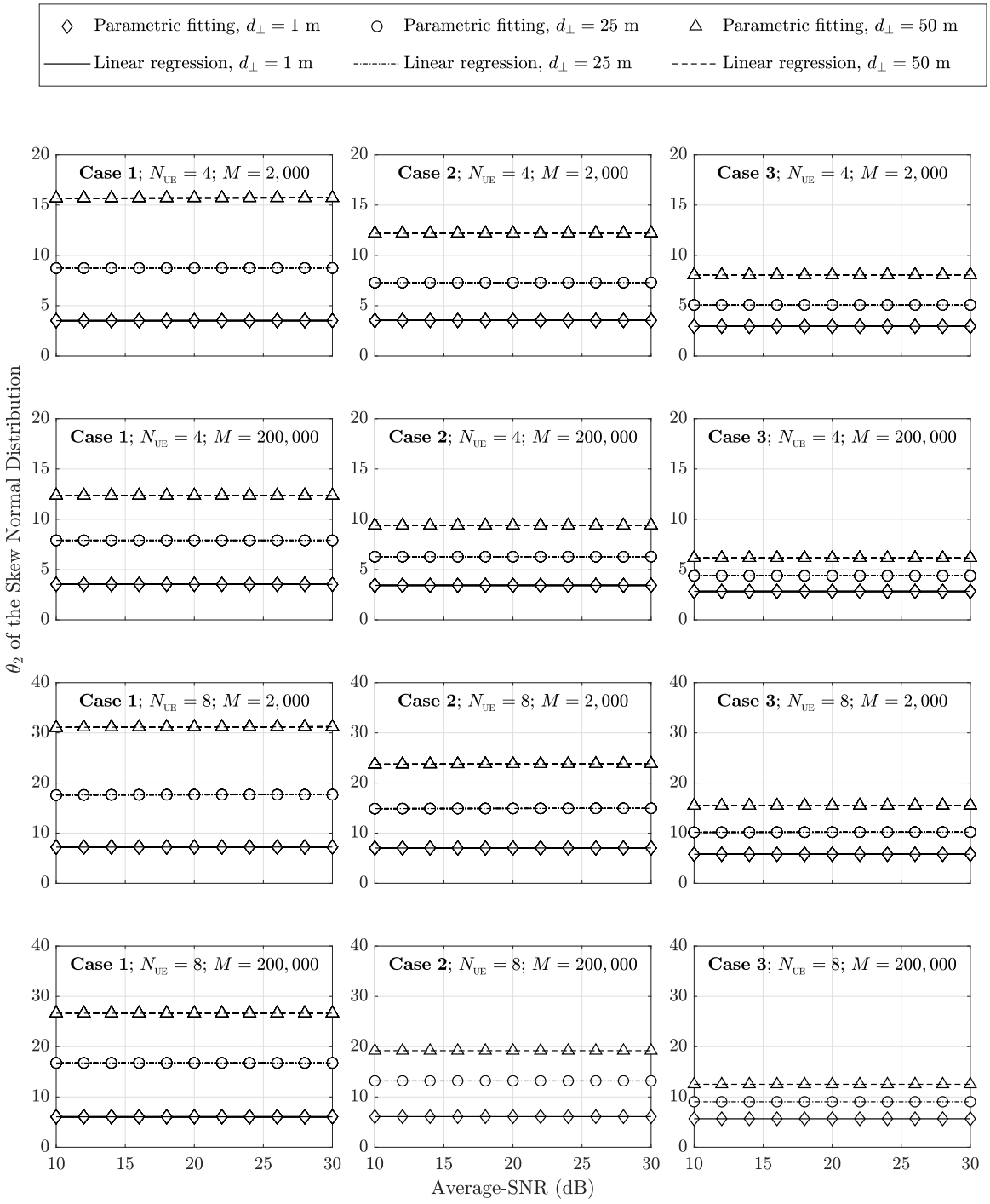

Fig. 2. Linear regression: θ_2 of the skew normal distribution.

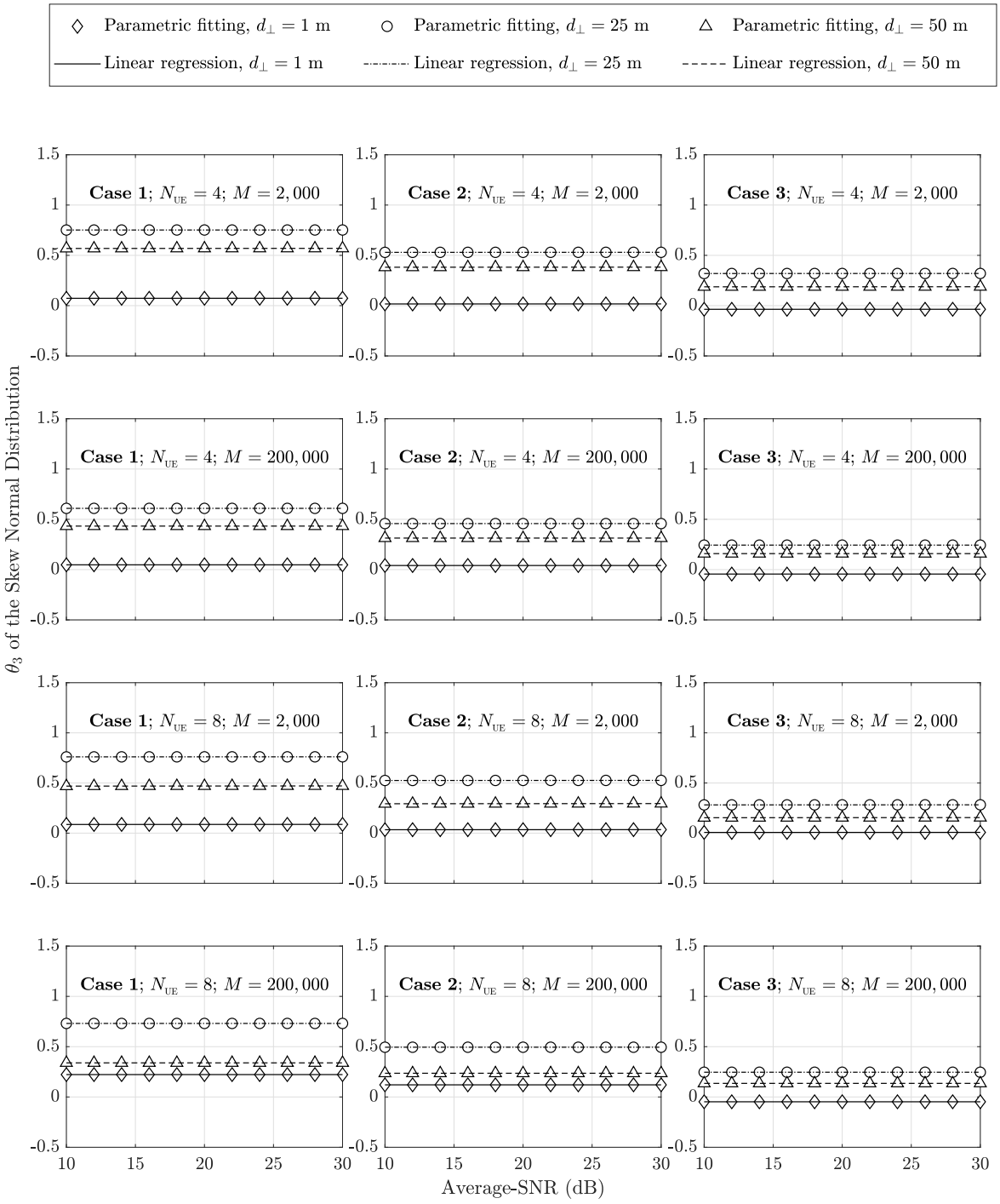

Fig. 3. Linear regression: θ_3 of the skew normal distribution.

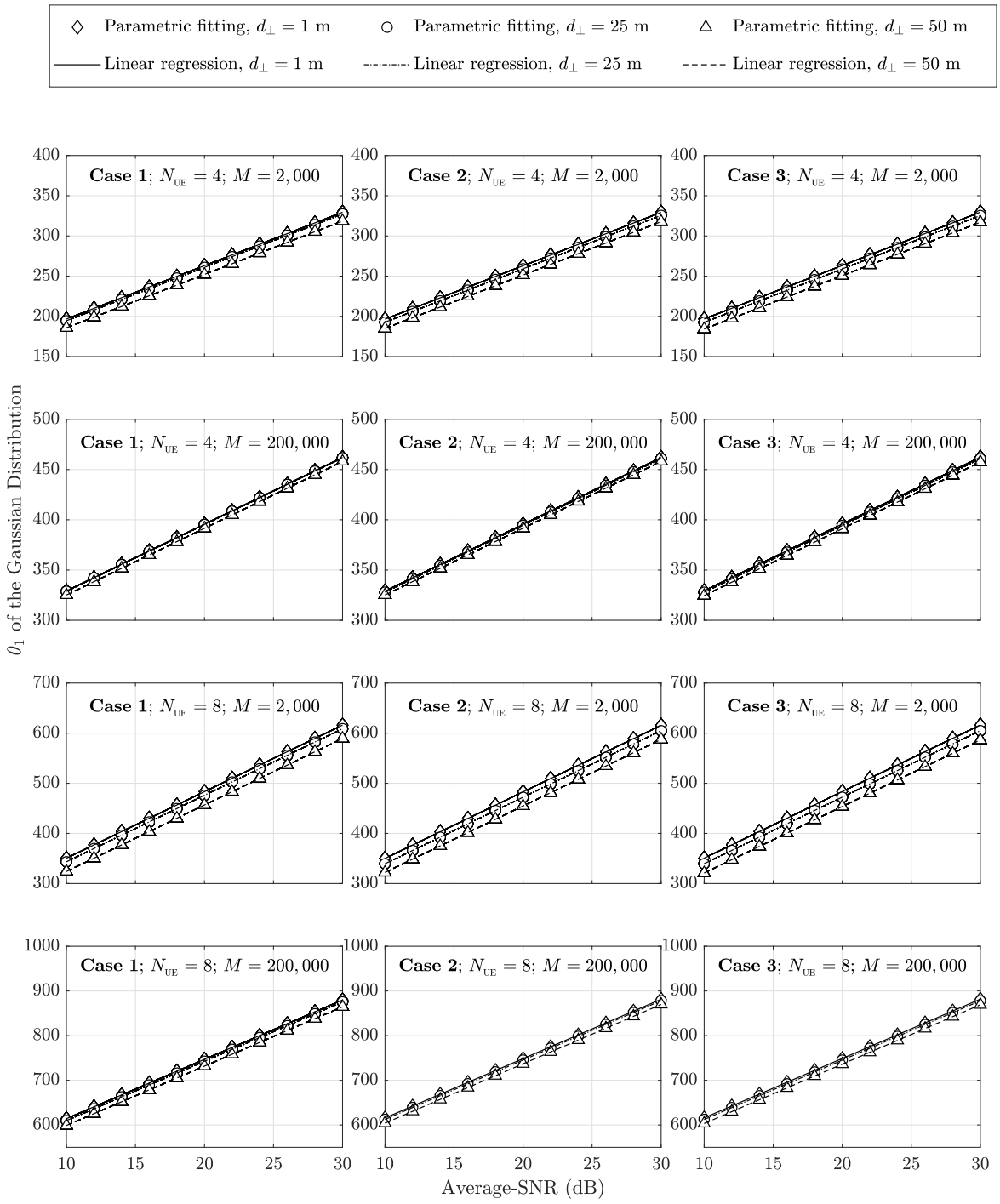

Fig. 4. Linear regression: θ_1 of the Gaussian distribution.

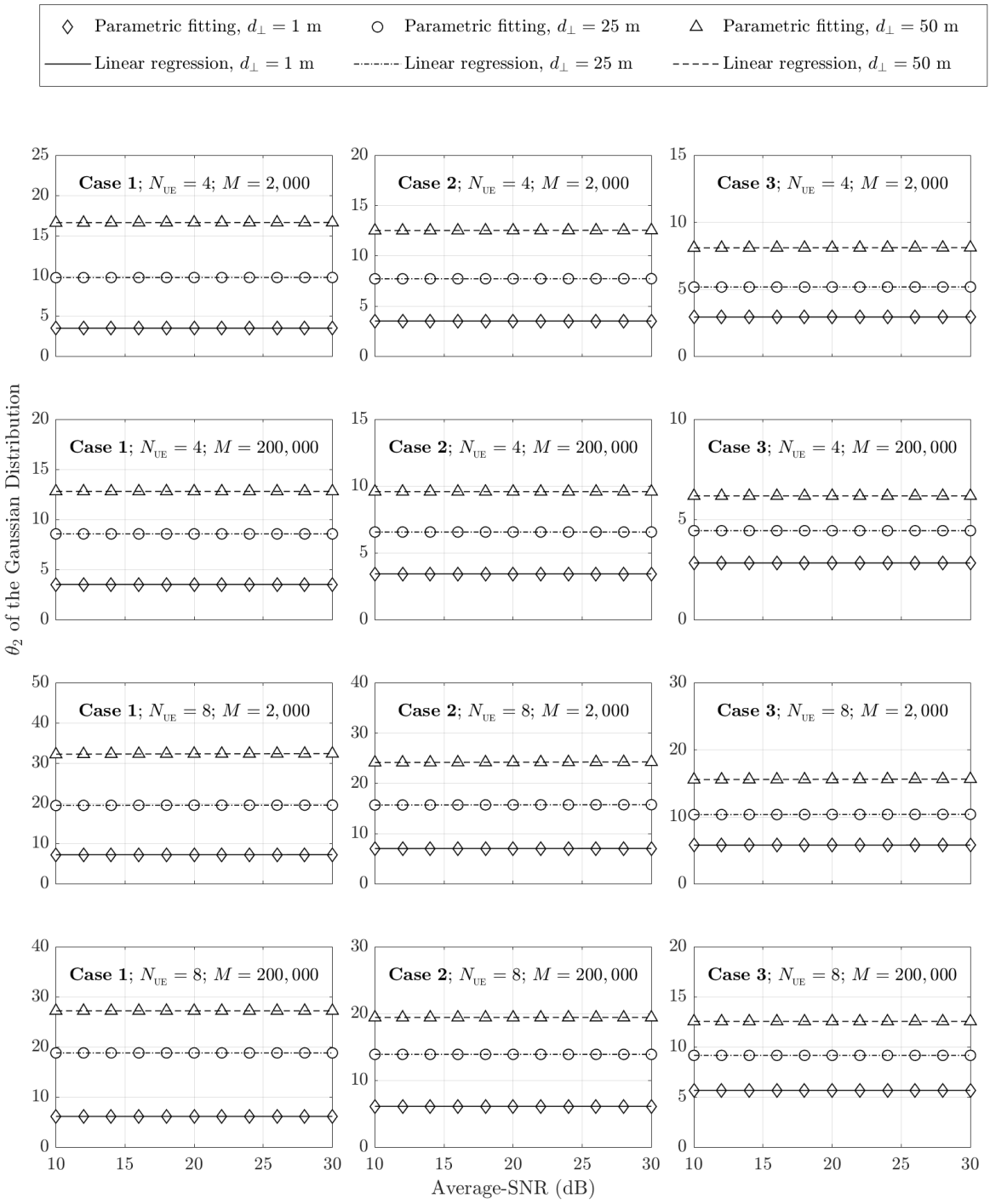

Fig. 5. Linear regression: θ_2 of the Gaussian distribution.

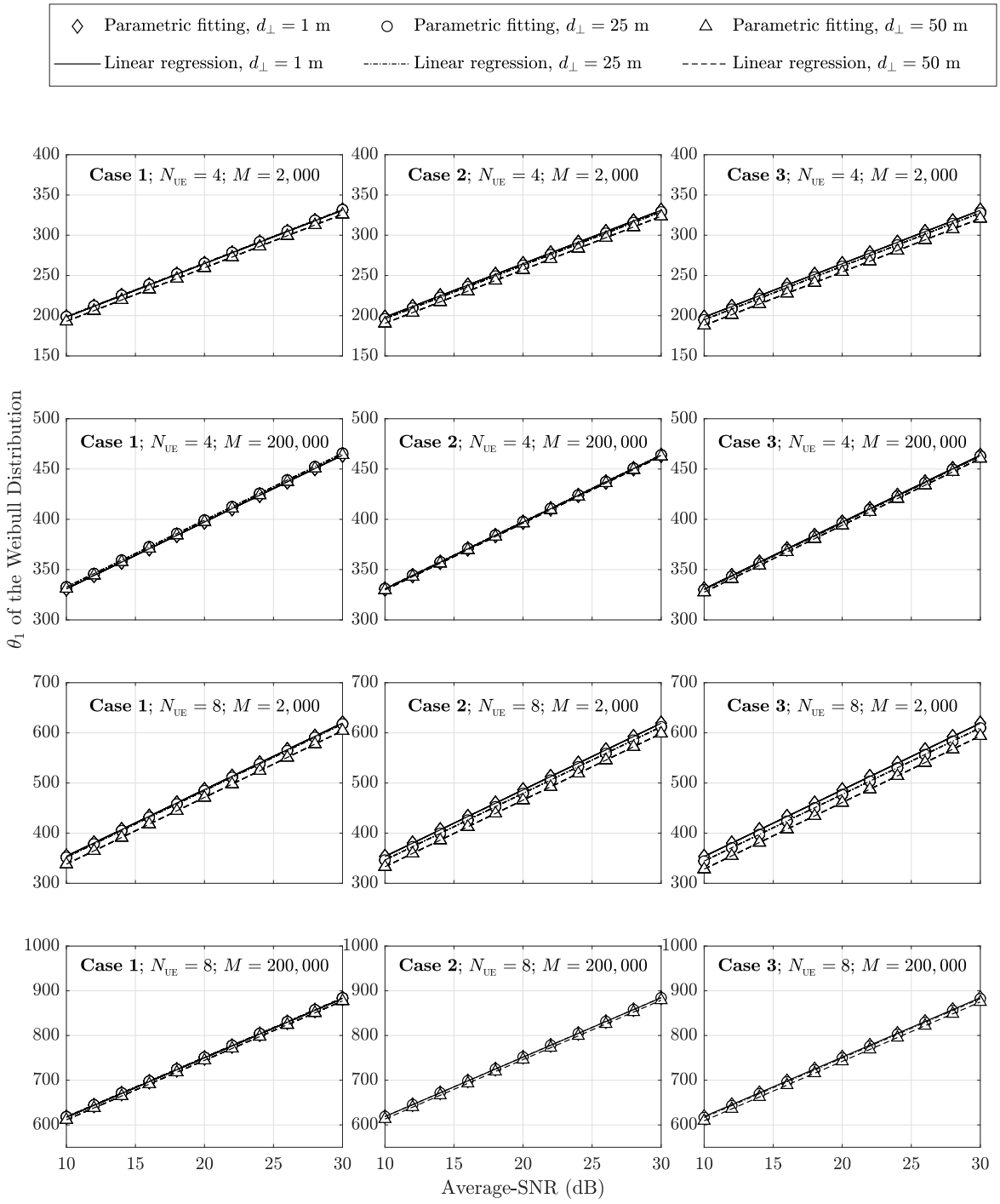

Fig. 6. Linear regression: θ_1 of the Weibull distribution.

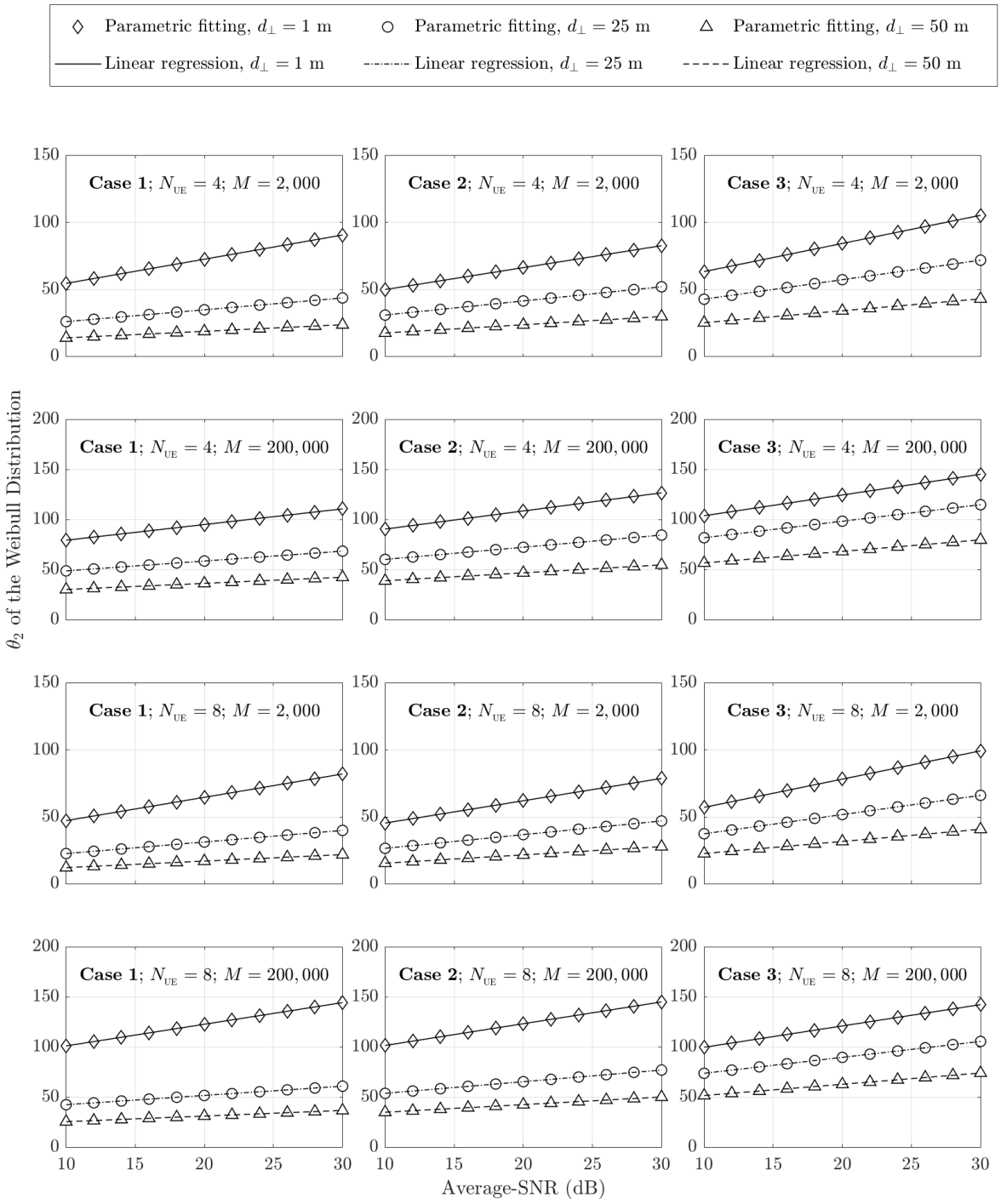

Fig. 7. Linear regression: θ_2 of the Weibull distribution.

III. Figures of Fitting Errors

Here is the figure list of fitting errors:

1) Fig. 8: $N_{\text{UE}} = 4$ and $M = 2,000$.
2) Fig. 9: $N_{\text{UE}} = 4$ and $M = 200,000$.
3) Fig. 10: $N_{\text{UE}} = 8$ and $M = 2,000$.
4) Fig. 11: $N_{\text{UE}} = 8$ and $M = 200,000$.

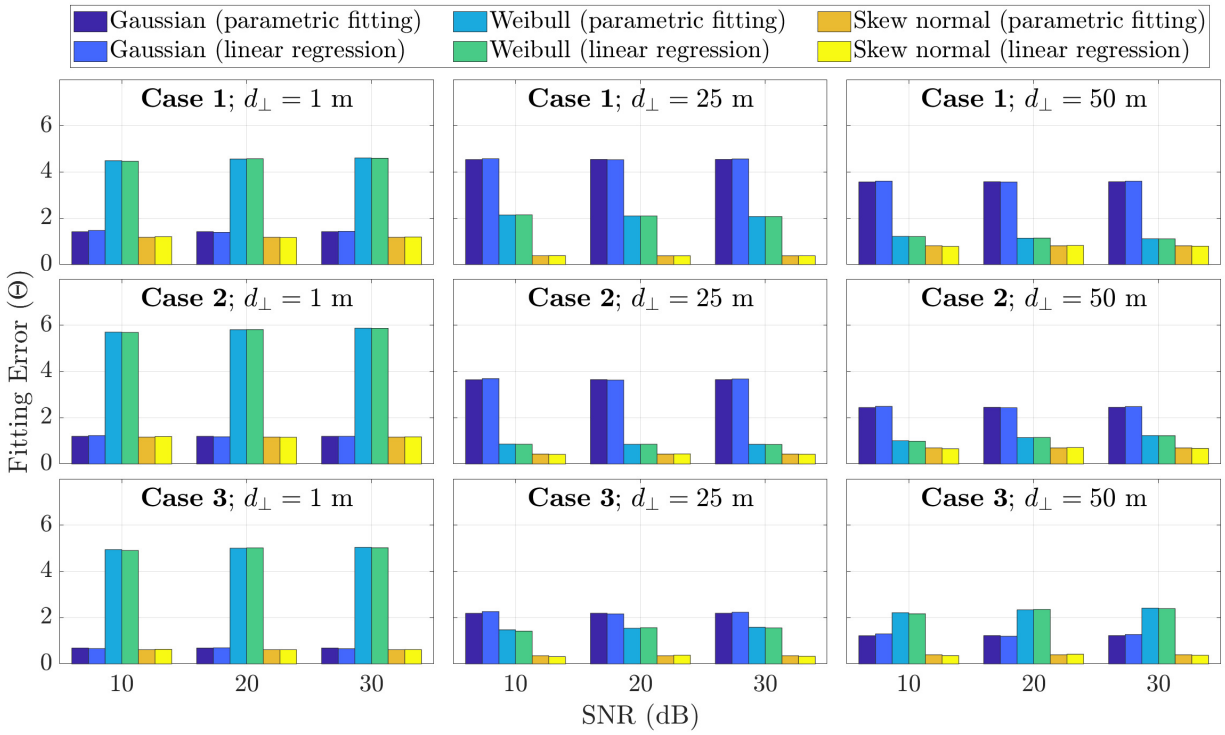

Fig. 8. The fitting errors of parametric fitting and linear regression when $N_{\text{UE}} = 4$ and $M = 2,000$.

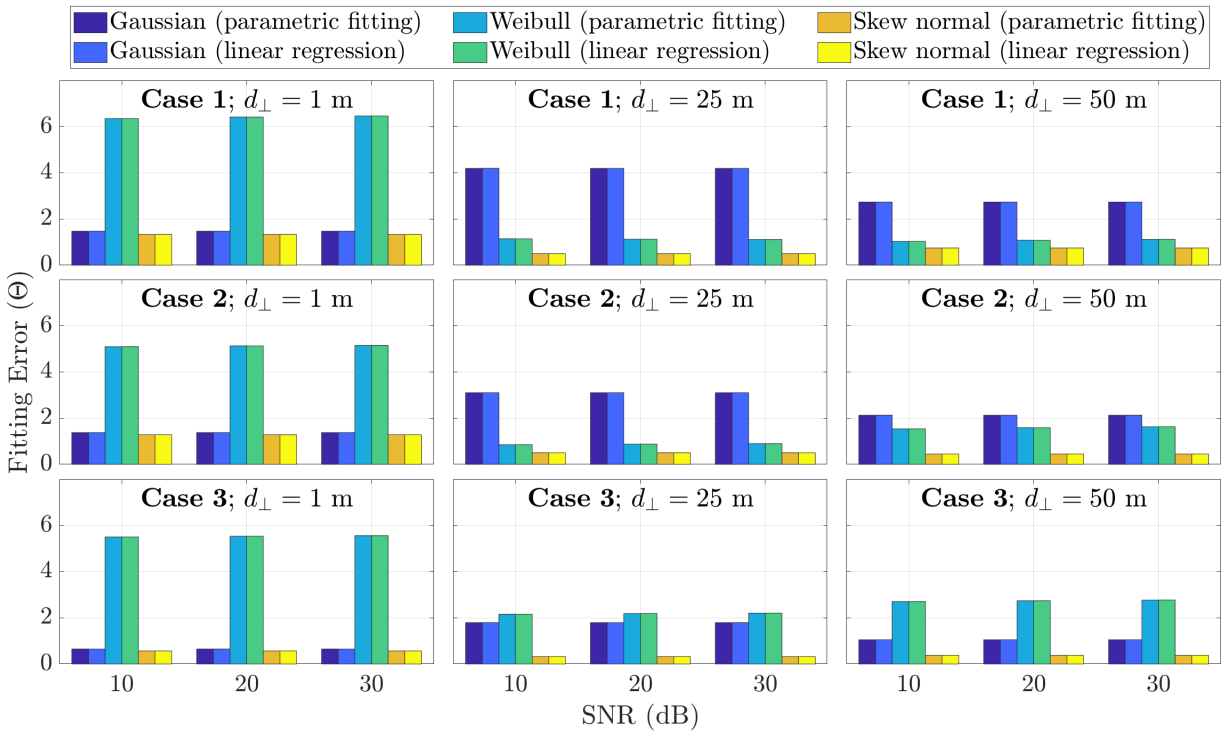

Fig. 9. The fitting errors of parametric fitting and linear regression when $N_{\text{UE}} = 4$ and $M = 200,000$.

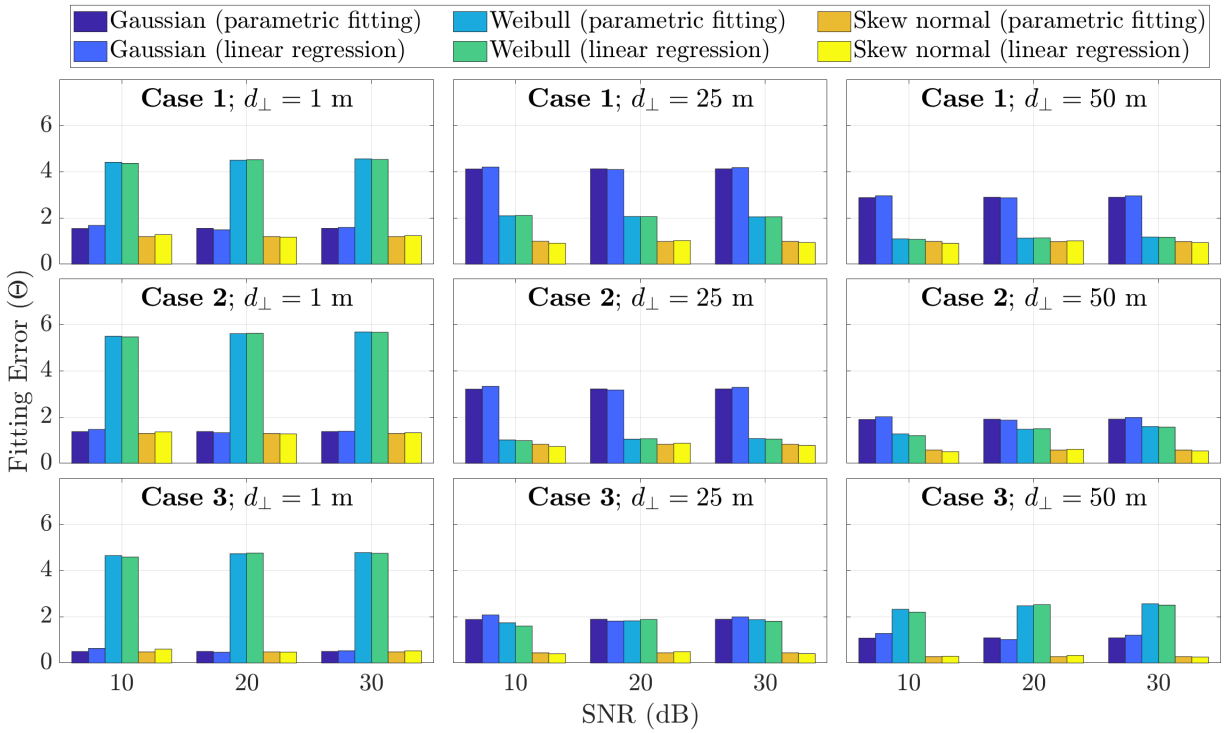

Fig. 10. The fitting errors of parametric fitting and linear regression when $N_{\text{UE}} = 8$ and $M = 2,000$.

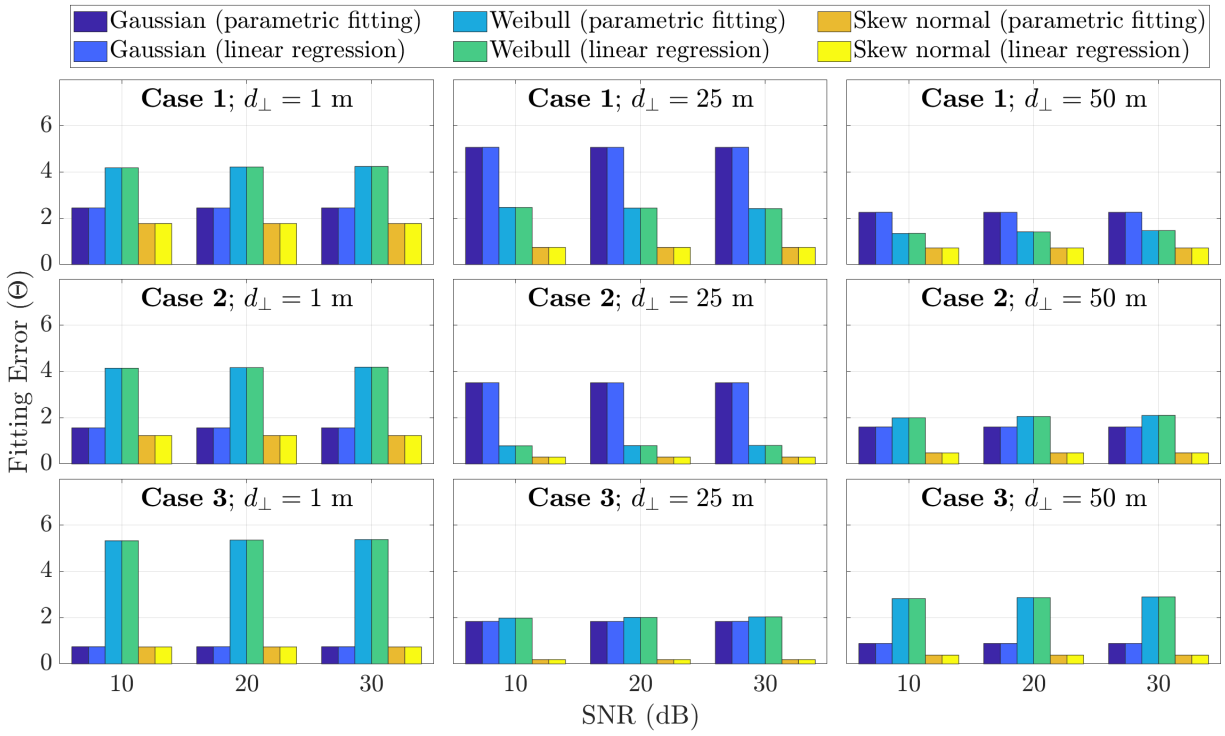

Fig. 11. The fitting errors of parametric fitting and linear regression when $N_{\text{UE}} = 8$ and $M = 200,000$.

IV. Tables of Parametric Fitting Results

Here is the table list of parametric fitting results:

1) TABLE V: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 10$ dB, and $M = 2,000$.
2) TABLE VI: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 12$ dB, and $M = 2,000$.
3) TABLE VII: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 14$ dB, and $M = 2,000$.
4) TABLE VIII: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 16$ dB, and $M = 2,000$.
5) TABLE IX: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 18$ dB, and $M = 2,000$.
6) TABLE X: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 20$ dB, and $M = 2,000$.
7) TABLE XI: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 22$ dB, and $M = 2,000$.
8) TABLE XII: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 24$ dB, and $M = 2,000$.
9) TABLE XIII: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 26$ dB, and $M = 2,000$.
10) TABLE XIV: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 28$ dB, and $M = 2,000$.
11) TABLE XV: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 30$ dB, and $M = 2,000$.
12) TABLE XVI: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 10$ dB, and $M = 200,000$.
13) TABLE XVII: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 12$ dB, and $M = 200,000$.
14) TABLE XVIII: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 14$ dB, and $M = 200,000$.
15) TABLE XIX: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 16$ dB, and $M = 200,000$.
16) TABLE XX: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 18$ dB, and $M = 200,000$.
17) TABLE XXI: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 20$ dB, and $M = 200,000$.
18) TABLE XXII: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 22$ dB, and $M = 200,000$.
19) TABLE XXIII: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 24$ dB, and $M = 200,000$.
20) TABLE XXIV: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 26$ dB, and $M = 200,000$.
21) TABLE XXV: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 28$ dB, and $M = 200,000$.
22) TABLE XXVI: Parametric fitting results. $N_{\text{UE}} = 4$, $\gamma_o = 30$ dB, and $M = 200,000$.
23) TABLE XXVII: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 10$ dB, and $M = 2,000$.
24) TABLE XXVIII: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 12$ dB, and $M = 2,000$.
25) TABLE XXIX: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 14$ dB, and $M = 2,000$.
26) TABLE XXX: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 16$ dB, and $M = 2,000$.
27) TABLE XXXI: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 18$ dB, and $M = 2,000$.
28) TABLE XXXII: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 20$ dB, and $M = 2,000$.
29) TABLE XXXIII: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 22$ dB, and $M = 2,000$.

30) TABLE XXXIV: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 24$ dB, and $M = 2,000$.
31) TABLE XXXV: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 26$ dB, and $M = 2,000$.
32) TABLE XXXVI: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 28$ dB, and $M = 2,000$.
33) TABLE XXXVII: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 30$ dB, and $M = 2,000$.
34) TABLE XXXVIII: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 10$ dB, and $M = 200,000$.
35) TABLE XXXIX: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 12$ dB, and $M = 200,000$.
36) TABLE XL: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 14$ dB, and $M = 200,000$.
37) TABLE XLI: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 16$ dB, and $M = 200,000$.
38) TABLE XLII: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 18$ dB, and $M = 200,000$.
39) TABLE XLIII: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 20$ dB, and $M = 200,000$.
40) TABLE XLIV: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 22$ dB, and $M = 200,000$.
41) TABLE XLV: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 24$ dB, and $M = 200,000$.
42) TABLE XLVI: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 26$ dB, and $M = 200,000$.
43) TABLE XLVII: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 28$ dB, and $M = 200,000$.
44) TABLE XLVIII: Parametric fitting results. $N_{\text{UE}} = 8$, $\gamma_o = 30$ dB, and $M = 200,000$.

TABLE V

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 10$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	196.6	194.5	185.7	196.5	192.7	184.9	196.7	192.5	184.2
	σ_T	3.513	9.799	16.62	3.521	7.721	12.51	2.943	5.172	8.096
Gaussian Distribution	θ_1	196.6	194.5	185.7	196.5	192.7	184.9	196.7	192.5	184.2
	θ_2	3.513	9.799	16.62	3.521	7.721	12.51	2.943	5.172	8.096
	Θ	1.421	4.542	3.573	1.195	3.643	2.441	0.6854	2.186	1.217
WeiBull Distribution	θ_1	198.3	198.8	193	198.2	196.2	190.6	198.2	195	188
	θ_2	54.54	26	13.88	49.93	30.92	17.5	63.34	42.76	25.23
	Θ	4.491	2.143	1.219	5.701	0.8589	1.003	4.942	1.474	2.213
Skew Normal Distribution	θ_1	197	204.9	200.1	196.5	198.9	192.5	196.5	195.1	186.6
	θ_2	3.508	8.728	15.68	3.52	7.282	12.18	2.942	5.063	8.037
	θ_3	0.07264	0.7515	0.5681	0.01651	0.5295	0.3814	−0.03665	0.3191	0.1868
	Θ	1.178	0.3798	0.8131	1.161	0.4276	0.6938	0.6135	0.3524	0.394

TABLE VI

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 12$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	209.9	207.8	199	209.7	206	198.2	210	205.8	197.4
	σ_T	3.515	9.806	16.63	3.523	7.727	12.53	2.945	5.177	8.104
Gaussian Distribution	θ_1	209.9	207.8	199	209.7	206	198.2	210	205.8	197.4
	θ_2	3.515	9.806	16.63	3.523	7.727	12.53	2.945	5.177	8.104
	Θ	1.422	4.544	3.577	1.195	3.645	2.444	0.6851	2.188	1.22
WeiBull Distribution	θ_1	211.6	212.1	206.3	211.4	209.5	203.9	211.4	208.2	201.2
	θ_2	58.14	27.76	14.85	53.19	33.01	18.72	67.52	45.64	26.99
	Θ	4.508	2.133	1.196	5.726	0.8558	1.036	4.957	1.49	2.243
Skew Normal Distribution	θ_1	210.3	218.2	213.4	209.8	212.2	205.7	209.8	208.4	199.9
	θ_2	3.509	8.734	15.69	3.522	7.287	12.19	2.944	5.067	8.045
	θ_3	0.07283	0.7517	0.5685	0.0167	0.5297	0.3819	−0.0365	0.3194	0.1871
	Θ	1.178	0.3795	0.8123	1.161	0.4279	0.6935	0.6136	0.3524	0.394

TABLE VII

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 14$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	223.2	221	212.3	223	219.3	211.5	223.3	219.1	210.7
	σ_T	3.516	9.811	16.64	3.524	7.73	12.53	2.946	5.179	8.11
Gaussian Distribution	θ_1	223.2	221	212.3	223	219.3	211.5	223.3	219.1	210.7
	θ_2	3.516	9.811	16.64	3.524	7.73	12.53	2.946	5.179	8.11
	Θ	1.422	4.545	3.579	1.196	3.646	2.446	0.6849	2.189	1.221
WeiBull Distribution	θ_1	224.9	225.3	219.6	224.7	222.8	217.2	224.7	221.5	214.5
	θ_2	61.74	29.52	15.83	56.46	35.11	19.95	71.71	48.54	28.76
	Θ	4.524	2.123	1.178	5.748	0.8535	1.066	4.97	1.505	2.27
Skew Normal Distribution	θ_1	223.6	231.5	226.7	223.1	225.4	219	223.1	221.7	213.1
	θ_2	3.51	8.738	15.7	3.523	7.29	12.19	2.944	5.07	8.05
	θ_3	0.07294	0.7518	0.5688	0.01682	0.5299	0.3821	−0.03641	0.3195	0.1873
	Θ	1.178	0.3793	0.8118	1.161	0.428	0.6933	0.6137	0.3524	0.3939

TABLE VIII

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 16$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	236.5	234.3	225.5	236.3	232.5	224.8	236.5	232.4	224
	σ_T	3.517	9.814	16.65	3.524	7.733	12.54	2.946	5.181	8.113
Gaussian Distribution	θ_1	236.5	234.3	225.5	236.3	232.5	224.8	236.5	232.4	224
	θ_2	3.517	9.814	16.65	3.524	7.733	12.54	2.946	5.181	8.113
	Θ	1.423	4.545	3.58	1.196	3.646	2.447	0.6847	2.19	1.222
WeiBull Distribution	θ_1	238.2	238.6	232.9	238	236	230.5	238	234.8	227.8
	θ_2	65.34	31.28	16.81	59.73	37.21	21.18	75.9	51.44	30.53
	Θ	4.539	2.115	1.164	5.769	0.8518	1.094	4.981	1.518	2.295
Skew Normal Distribution	θ_1	236.9	244.8	240	236.4	238.7	232.3	236.4	235	226.4
	θ_2	3.511	8.74	15.7	3.524	7.292	12.2	2.945	5.071	8.053
	θ_3	0.07302	0.7519	0.569	0.0169	0.53	0.3823	−0.03635	0.3196	0.1875
	Θ	1.178	0.3792	0.8115	1.161	0.4282	0.6932	0.6137	0.3524	0.3939

TABLE IX

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 18$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	249.7	247.6	238.8	249.6	245.8	238	249.8	245.6	237.3
	σ_T	3.517	9.815	16.65	3.525	7.734	12.54	2.946	5.182	8.115
Gaussian Distribution	θ_1	249.7	247.6	238.8	249.6	245.8	238	249.8	245.6	237.3
	θ_2	3.517	9.815	16.65	3.525	7.734	12.54	2.946	5.182	8.115
	Θ	1.423	4.546	3.581	1.196	3.647	2.448	0.6846	2.19	1.223
WeiBull Distribution	θ_1	251.5	251.9	246.2	251.3	249.3	243.8	251.3	248.1	241.1
	θ_2	68.95	33.04	17.79	63	39.32	22.41	80.1	54.35	32.3
	Θ	4.552	2.108	1.152	5.788	0.8506	1.118	4.992	1.53	2.317
Skew Normal Distribution	θ_1	250.1	258.1	253.3	249.7	252	245.6	249.7	248.2	239.7
	θ_2	3.511	8.741	15.71	3.524	7.293	12.2	2.945	5.072	8.055
	θ_3	0.07306	0.7519	0.5691	0.01695	0.53	0.3824	-0.03632	0.3197	0.1876
	Θ	1.178	0.3792	0.8113	1.161	0.4282	0.6931	0.6137	0.3524	0.3939

TABLE X

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 20$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	263	260.9	252.1	262.9	259.1	251.3	263.1	258.9	250.5
	σ_T	3.518	9.817	16.65	3.525	7.735	12.54	2.947	5.183	8.116
Gaussian Distribution	θ_1	263	260.9	252.1	262.9	259.1	251.3	263.1	258.9	250.5
	θ_2	3.518	9.817	16.65	3.525	7.735	12.54	2.947	5.183	8.116
	Θ	1.423	4.546	3.581	1.196	3.647	2.448	0.6846	2.19	1.223
WeiBull Distribution	θ_1	264.7	265.2	259.5	264.6	262.6	257	264.6	261.4	254.4
	θ_2	72.56	34.81	18.77	66.28	41.42	23.64	84.3	57.26	34.08
	Θ	4.564	2.101	1.142	5.805	0.8498	1.141	5.002	1.541	2.336
Skew Normal Distribution	θ_1	263.4	271.4	266.6	263	265.3	258.9	262.9	261.5	253
	θ_2	3.512	8.742	15.71	3.525	7.294	12.2	2.945	5.073	8.057
	θ_3	0.07309	0.7519	0.5692	0.01698	0.5301	0.3825	-0.03629	0.3197	0.1876
	Θ	1.178	0.3791	0.8112	1.161	0.4283	0.6931	0.6138	0.3524	0.3939

TABLE XI

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 22$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	276.3	274.2	265.4	276.1	272.4	264.6	276.4	272.2	263.8
	σ_T	3.518	9.817	16.65	3.525	7.736	12.54	2.947	5.183	8.117
Gaussian Distribution	θ_1	276.3	274.2	265.4	276.1	272.4	264.6	276.4	272.2	263.8
	θ_2	3.518	9.817	16.65	3.525	7.736	12.54	2.947	5.183	8.117
	Θ	1.423	4.546	3.582	1.196	3.647	2.449	0.6846	2.191	1.223
WeiBull Distribution	θ_1	278	278.5	272.8	277.9	275.9	270.3	277.9	274.7	267.7
	θ_2	76.17	36.58	19.75	69.55	43.53	24.88	88.51	60.17	35.86
	Θ	4.575	2.095	1.134	5.821	0.8493	1.162	5.011	1.551	2.354
Skew Normal Distribution	θ_1	276.7	284.6	279.8	276.2	278.6	272.1	276.2	274.8	266.3
	θ_2	3.512	8.743	15.71	3.525	7.295	12.2	2.946	5.073	8.057
	θ_3	0.07311	0.7519	0.5692	0.017	0.5301	0.3825	-0.03628	0.3197	0.1877
	Θ	1.178	0.3791	0.8111	1.161	0.4283	0.693	0.6138	0.3524	0.3939

TABLE XII

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 24$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	289.6	287.5	278.7	289.4	285.7	277.9	289.7	285.5	277.1
	σ_T	3.518	9.818	16.66	3.525	7.736	12.54	2.947	5.183	8.118
Gaussian Distribution	θ_1	289.6	287.5	278.7	289.4	285.7	277.9	289.7	285.5	277.1
	θ_2	3.518	9.818	16.66	3.525	7.736	12.54	2.947	5.183	8.118
	Θ	1.423	4.546	3.582	1.196	3.647	2.449	0.6845	2.191	1.223
WeiBull Distribution	θ_1	291.3	291.8	286.1	291.2	289.2	283.6	291.1	287.9	281
	θ_2	79.78	38.35	20.73	72.83	45.64	26.11	92.71	63.08	37.64
	Θ	4.585	2.09	1.128	5.836	0.849	1.18	5.019	1.56	2.371
Skew Normal Distribution	θ_1	290	297.9	293.1	289.5	291.9	285.4	289.5	288.1	279.5
	θ_2	3.512	8.743	15.71	3.525	7.295	12.2	2.946	5.073	8.058
	θ_3	0.07312	0.7519	0.5692	0.01701	0.5301	0.3825	-0.03627	0.3197	0.1877
	Θ	1.178	0.3791	0.8111	1.161	0.4283	0.693	0.6138	0.3524	0.3939

TABLE XIII

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 26$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	302.9	300.7	292	302.7	299	291.2	303	298.8	290.4
	σ_T	3.518	9.818	16.66	3.525	7.736	12.55	2.947	5.184	8.118
Gaussian Distribution	θ_1	302.9	300.7	292	302.7	299	291.2	303	298.8	290.4
	θ_2	3.518	9.818	16.66	3.525	7.736	12.55	2.947	5.184	8.118
	Θ	1.423	4.546	3.582	1.196	3.647	2.449	0.6845	2.191	1.223
WeiBull Distribution	θ_1	304.6	305.1	299.4	304.4	302.5	296.9	304.4	301.2	294.3
	θ_2	83.39	40.12	21.71	76.1	47.75	27.34	96.92	66	39.42
	Θ	4.594	2.085	1.122	5.849	0.8489	1.198	5.027	1.569	2.386
Skew Normal Distribution	θ_1	303.3	311.2	306.4	302.8	305.2	298.7	302.8	301.4	292.8
	θ_2	3.512	8.743	15.71	3.525	7.295	12.2	2.946	5.074	8.058
	θ_3	0.07313	0.7519	0.5692	0.01702	0.5301	0.3826	−0.03626	0.3197	0.1877
	Θ	1.178	0.3791	0.811	1.161	0.4283	0.693	0.6138	0.3524	0.3939

TABLE XIV

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 28$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	316.2	314	305.2	316	312.3	304.5	316.3	312.1	303.7
	σ_T	3.518	9.818	16.66	3.525	7.737	12.55	2.947	5.184	8.118
Gaussian Distribution	θ_1	316.2	314	305.2	316	312.3	304.5	316.3	312.1	303.7
	θ_2	3.518	9.818	16.66	3.525	7.737	12.55	2.947	5.184	8.118
	Θ	1.423	4.546	3.582	1.196	3.647	2.449	0.6845	2.191	1.224
WeiBull Distribution	θ_1	317.9	318.4	312.7	317.7	315.8	310.2	317.7	314.5	307.6
	θ_2	87	41.89	22.69	79.38	49.87	28.58	101.1	68.91	41.2
	Θ	4.603	2.081	1.118	5.862	0.849	1.214	5.034	1.576	2.399
Skew Normal Distribution	θ_1	316.6	324.5	319.7	316.1	318.4	312	316.1	314.7	306.1
	θ_2	3.512	8.744	15.71	3.525	7.295	12.2	2.946	5.074	8.058
	θ_3	0.07313	0.752	0.5693	0.01703	0.5301	0.3826	−0.03626	0.3198	0.1877
	Θ	1.178	0.379	0.811	1.161	0.4283	0.693	0.6138	0.3524	0.3939

TABLE XV

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 30$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	329.5	327.3	318.5	329.3	325.5	317.7	329.5	325.4	317
	σ_T	3.518	9.818	16.66	3.525	7.737	12.55	2.947	5.184	8.118
Gaussian Distribution	θ_1	329.5	327.3	318.5	329.3	325.5	317.7	329.5	325.4	317
	θ_2	3.518	9.818	16.66	3.525	7.737	12.55	2.947	5.184	8.118
	Θ	1.423	4.547	3.582	1.196	3.647	2.449	0.6845	2.191	1.224
WeiBull Distribution	θ_1	331.2	331.7	326	331	329.1	323.5	331	327.8	320.8
	θ_2	90.61	43.65	23.67	82.65	51.98	29.81	105.3	71.83	42.98
	Θ	4.61	2.077	1.115	5.873	0.8491	1.228	5.04	1.583	2.412
Skew Normal Distribution	θ_1	329.9	337.8	333	329.4	331.7	325.3	329.4	328	319.4
	θ_2	3.512	8.744	15.71	3.525	7.295	12.2	2.946	5.074	8.059
	θ_3	0.07314	0.752	0.5693	0.01703	0.5301	0.3826	−0.03626	0.3198	0.1877
	Θ	1.178	0.379	0.811	1.161	0.4283	0.693	0.6138	0.3524	0.3939

TABLE XVI

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 10$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	329.2	328.8	325.1	329	328	325.2	329.4	327.9	324.6
	σ_T	3.536	8.575	12.82	3.435	6.573	9.594	2.837	4.447	6.184
Gaussian Distribution	θ_1	329.2	328.8	325.1	329	328	325.2	329.4	327.9	324.6
	θ_2	3.536	8.575	12.82	3.435	6.573	9.594	2.837	4.447	6.184
	Θ	1.471	4.194	2.735	1.375	3.101	2.128	0.6466	1.791	1.049
WeiBull Distribution	θ_1	330.9	332.7	331	330.7	331.1	329.7	330.8	330	327.6
	θ_2	79.46	48.87	30.29	90.57	60.29	39.03	103.9	81.92	56.8
	Θ	6.349	1.143	1.027	5.096	0.8505	1.534	5.5	2.157	2.703
Skew Normal Distribution	θ_1	329.4	336.5	333.8	329.3	332.6	329.9	329.2	329.6	326.2
	θ_2	3.534	7.911	12.37	3.433	6.285	9.399	2.835	4.386	6.151
	θ_3	0.04767	0.6089	0.4326	0.04075	0.4575	0.3134	−0.0442	0.2435	0.159
	Θ	1.327	0.497	0.7451	1.279	0.4995	0.4464	0.5646	0.3207	0.3773

TABLE XVII

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 12$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	342.5	342.1	338.4	342.3	341.3	338.5	342.6	341.2	337.9
	σ_T	3.536	8.575	12.82	3.435	6.573	9.594	2.837	4.447	6.185
Gaussian Distribution	θ_1	342.5	342.1	338.4	342.3	341.3	338.5	342.6	341.2	337.9
	θ_2	3.536	8.575	12.82	3.435	6.573	9.594	2.837	4.447	6.185
	Θ	1.471	4.194	2.735	1.375	3.101	2.128	0.6466	1.791	1.049
WeiBull Distribution	θ_1	344.1	346	344.3	344	344.4	343	344	343.3	340.9
	θ_2	82.59	50.84	31.52	94.18	62.72	40.61	108	85.22	59.1
	Θ	6.364	1.139	1.039	5.103	0.8565	1.547	5.508	2.163	2.712
Skew Normal Distribution	θ_1	342.7	349.8	347.1	342.5	345.9	343.2	342.4	342.9	339.5
	θ_2	3.534	7.911	12.37	3.433	6.285	9.399	2.835	4.386	6.151
	θ_3	0.04767	0.6089	0.4326	0.04075	0.4576	0.3134	-0.0442	0.2435	0.159
	Θ	1.327	0.497	0.7451	1.279	0.4995	0.4464	0.5646	0.3207	0.3773

TABLE XVIII

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 14$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	355.7	355.4	351.7	355.6	354.6	351.8	355.9	354.5	351.2
	σ_T	3.536	8.575	12.82	3.435	6.574	9.594	2.837	4.447	6.185
Gaussian Distribution	θ_1	355.7	355.4	351.7	355.6	354.6	351.8	355.9	354.5	351.2
	θ_2	3.536	8.575	12.82	3.435	6.574	9.594	2.837	4.447	6.185
	Θ	1.471	4.194	2.735	1.375	3.101	2.128	0.6466	1.791	1.049
WeiBull Distribution	θ_1	357.4	359.3	357.6	357.3	357.6	356.3	357.3	356.6	354.2
	θ_2	85.72	52.8	32.74	97.8	65.15	42.19	112.2	88.52	61.4
	Θ	6.378	1.135	1.05	5.11	0.8621	1.558	5.515	2.169	2.72
Skew Normal Distribution	θ_1	356	363.1	360.4	355.8	359.2	356.5	355.7	356.2	352.8
	θ_2	3.534	7.911	12.37	3.433	6.285	9.399	2.835	4.386	6.151
	θ_3	0.04767	0.6089	0.4326	0.04076	0.4576	0.3134	-0.0442	0.2435	0.159
	Θ	1.327	0.497	0.7451	1.279	0.4995	0.4464	0.5646	0.3207	0.3773

TABLE XIX

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 16$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	369	368.7	365	368.9	367.9	365.1	369.2	367.7	364.5
	σ_T	3.536	8.575	12.82	3.435	6.574	9.594	2.837	4.447	6.185
Gaussian Distribution	θ_1	369	368.7	365	368.9	367.9	365.1	369.2	367.7	364.5
	θ_2	3.536	8.575	12.82	3.435	6.574	9.594	2.837	4.447	6.185
	Θ	1.471	4.194	2.735	1.375	3.101	2.128	0.6466	1.791	1.049
WeiBull Distribution	θ_1	370.7	372.6	370.9	370.6	370.9	369.6	370.6	369.9	367.5
	θ_2	88.84	54.77	33.97	101.4	67.58	43.76	116.3	91.82	63.71
	Θ	6.39	1.132	1.061	5.116	0.8673	1.568	5.522	2.174	2.727
Skew Normal Distribution	θ_1	369.3	376.4	373.6	369.1	372.5	369.8	369	369.4	366
	θ_2	3.534	7.911	12.37	3.433	6.285	9.399	2.835	4.386	6.151
	θ_3	0.04767	0.6089	0.4326	0.04076	0.4576	0.3134	-0.0442	0.2435	0.159
	Θ	1.327	0.497	0.7451	1.279	0.4995	0.4464	0.5646	0.3207	0.3773

TABLE XX

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 18$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	382.3	382	378.3	382.2	381.2	378.4	382.5	381	377.8
	σ_T	3.536	8.575	12.82	3.435	6.574	9.594	2.837	4.447	6.185
Gaussian Distribution	θ_1	382.3	382	378.3	382.2	381.2	378.4	382.5	381	377.8
	θ_2	3.536	8.575	12.82	3.435	6.574	9.594	2.837	4.447	6.185
	Θ	1.471	4.194	2.735	1.375	3.101	2.128	0.6466	1.791	1.049
WeiBull Distribution	θ_1	384	385.9	384.2	383.9	384.2	382.8	383.9	383.2	380.7
	θ_2	91.97	56.74	35.19	105	70.01	45.34	120.4	95.12	66.01
	Θ	6.402	1.129	1.07	5.122	0.8722	1.578	5.528	2.179	2.734
Skew Normal Distribution	θ_1	382.6	389.7	386.9	382.4	385.8	383.1	382.3	382.7	379.3
	θ_2	3.534	7.911	12.37	3.433	6.285	9.399	2.835	4.386	6.151
	θ_3	0.04767	0.6089	0.4326	0.04076	0.4576	0.3134	-0.0442	0.2435	0.159
	Θ	1.327	0.497	0.7451	1.279	0.4995	0.4464	0.5646	0.3207	0.3773

TABLE XXI

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 20$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	395.6	395.3	391.6	395.5	394.5	391.6	395.8	394.3	391
	σ_T	3.536	8.575	12.82	3.435	6.574	9.594	2.837	4.447	6.185
Gaussian Distribution	θ_1	395.6	395.3	391.6	395.5	394.5	391.6	395.8	394.3	391
	θ_2	3.536	8.575	12.82	3.435	6.574	9.594	2.837	4.447	6.185
	Θ	1.471	4.194	2.735	1.375	3.101	2.128	0.6466	1.791	1.049
WeiBull Distribution	θ_1	397.3	399.1	397.5	397.2	397.5	396.1	397.2	396.4	394
	θ_2	95.1	58.71	36.42	108.6	72.44	46.92	124.6	98.41	68.31
	Θ	6.414	1.126	1.079	5.128	0.8768	1.587	5.534	2.183	2.741
Skew Normal Distribution	θ_1	395.9	402.9	400.2	395.7	399.1	396.4	395.6	396	392.6
	θ_2	3.534	7.911	12.37	3.433	6.285	9.399	2.835	4.386	6.151
	θ_3	0.04767	0.6089	0.4326	0.04076	0.4576	0.3134	-0.0442	0.2435	0.159
	Θ	1.327	0.497	0.7451	1.279	0.4995	0.4464	0.5646	0.3207	0.3773

TABLE XXII

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 22$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	408.9	408.6	404.9	408.8	407.8	404.9	409.1	407.6	404.3
	σ_T	3.536	8.575	12.82	3.435	6.574	9.594	2.837	4.447	6.185
Gaussian Distribution	θ_1	408.9	408.6	404.9	408.8	407.8	404.9	409.1	407.6	404.3
	θ_2	3.536	8.575	12.82	3.435	6.574	9.594	2.837	4.447	6.185
	Θ	1.471	4.194	2.735	1.375	3.101	2.128	0.6466	1.791	1.049
WeiBull Distribution	θ_1	410.6	412.4	410.8	410.5	410.8	409.4	410.5	409.7	407.3
	θ_2	98.23	60.67	37.65	112.3	74.87	48.5	128.7	101.7	70.61
	Θ	6.424	1.123	1.088	5.133	0.881	1.596	5.539	2.188	2.747
Skew Normal Distribution	θ_1	409.2	416.2	413.5	409	412.4	409.7	408.9	409.3	405.9
	θ_2	3.534	7.911	12.37	3.433	6.285	9.399	2.835	4.386	6.151
	θ_3	0.04767	0.6089	0.4326	0.04076	0.4576	0.3134	-0.0442	0.2435	0.159
	Θ	1.327	0.497	0.7451	1.279	0.4995	0.4464	0.5646	0.3207	0.3773

TABLE XXIII

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 24$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	422.2	421.9	418.2	422.1	421.1	418.2	422.4	420.9	417.6
	σ_T	3.536	8.575	12.82	3.435	6.574	9.594	2.837	4.447	6.185
Gaussian Distribution	θ_1	422.2	421.9	418.2	422.1	421.1	418.2	422.4	420.9	417.6
	θ_2	3.536	8.575	12.82	3.435	6.574	9.594	2.837	4.447	6.185
	Θ	1.471	4.194	2.735	1.375	3.101	2.128	0.6466	1.791	1.049
WeiBull Distribution	θ_1	423.9	425.7	424.1	423.7	424.1	422.7	423.8	423	420.6
	θ_2	101.4	62.64	38.87	115.9	77.3	50.08	132.8	105	72.92
	Θ	6.434	1.121	1.096	5.138	0.885	1.604	5.544	2.192	2.752
Skew Normal Distribution	θ_1	422.4	429.5	426.8	422.3	425.6	422.9	422.2	422.6	419.2
	θ_2	3.534	7.911	12.37	3.433	6.285	9.399	2.835	4.386	6.151
	θ_3	0.04767	0.6089	0.4326	0.04076	0.4576	0.3134	-0.0442	0.2435	0.159
	Θ	1.327	0.497	0.7451	1.279	0.4995	0.4464	0.5646	0.3207	0.3773

TABLE XXIV

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 26$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	435.5	435.1	431.4	435.3	434.3	431.5	435.7	434.2	430.9
	σ_T	3.536	8.575	12.82	3.435	6.574	9.594	2.837	4.447	6.185
Gaussian Distribution	θ_1	435.5	435.1	431.4	435.3	434.3	431.5	435.7	434.2	430.9
	θ_2	3.536	8.575	12.82	3.435	6.574	9.594	2.837	4.447	6.185
	Θ	1.471	4.194	2.735	1.375	3.101	2.128	0.6466	1.791	1.049
WeiBull Distribution	θ_1	437.2	439	437.4	437	437.4	436	437.1	436.3	433.9
	θ_2	104.5	64.61	40.1	119.5	79.73	51.66	137	108.3	75.22
	Θ	6.443	1.118	1.104	5.142	0.8888	1.611	5.549	2.195	2.758
Skew Normal Distribution	θ_1	435.7	442.8	440.1	435.6	438.9	436.2	435.5	435.9	432.5
	θ_2	3.534	7.911	12.37	3.433	6.285	9.399	2.835	4.386	6.151
	θ_3	0.04767	0.6089	0.4326	0.04076	0.4576	0.3134	-0.0442	0.2435	0.159
	Θ	1.327	0.497	0.7451	1.279	0.4995	0.4464	0.5646	0.3207	0.3773

TABLE XXV

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 28$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	448.8	448.4	444.7	448.6	447.6	444.8	448.9	447.5	444.2
	σ_T	3.536	8.575	12.82	3.435	6.574	9.594	2.837	4.447	6.185
Gaussian Distribution	θ_1	448.8	448.4	444.7	448.6	447.6	444.8	448.9	447.5	444.2
	θ_2	3.536	8.575	12.82	3.435	6.574	9.594	2.837	4.447	6.185
	Θ	1.471	4.194	2.735	1.375	3.101	2.128	0.6466	1.791	1.049
WeiBull Distribution	θ_1	450.4	452.3	450.7	450.3	450.7	449.3	450.3	449.6	447.2
	θ_2	107.6	66.58	41.32	123.1	82.16	53.23	141.1	111.6	77.52
	Θ	6.452	1.116	1.111	5.147	0.8924	1.618	5.553	2.199	2.763
Skew Normal Distribution	θ_1	449	456.1	453.4	448.8	452.2	449.5	448.7	449.2	445.8
	θ_2	3.534	7.911	12.37	3.433	6.285	9.399	2.835	4.386	6.151
	θ_3	0.04767	0.6089	0.4326	0.04076	0.4576	0.3134	-0.0442	0.2435	0.159
	Θ	1.327	0.497	0.7451	1.279	0.4995	0.4464	0.5646	0.3207	0.3773

TABLE XXVI

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 4$, $\gamma_o = 30$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	462	461.7	458	461.9	460.9	458.1	462.2	460.8	457.5
	σ_T	3.536	8.575	12.82	3.435	6.574	9.594	2.837	4.447	6.185
Gaussian Distribution	θ_1	462	461.7	458	461.9	460.9	458.1	462.2	460.8	457.5
	θ_2	3.536	8.575	12.82	3.435	6.574	9.594	2.837	4.447	6.185
	Θ	1.471	4.194	2.735	1.375	3.101	2.128	0.6466	1.791	1.049
WeiBull Distribution	θ_1	463.7	465.6	463.9	463.6	464	462.6	463.6	462.9	460.5
	θ_2	110.7	68.54	42.55	126.7	84.59	54.81	145.2	114.9	79.82
	Θ	6.461	1.114	1.117	5.151	0.8957	1.625	5.557	2.202	2.767
Skew Normal Distribution	θ_1	462.3	469.4	466.7	462.1	465.5	462.8	462	462.5	459.1
	θ_2	3.534	7.911	12.37	3.433	6.285	9.399	2.835	4.386	6.151
	θ_3	0.04767	0.6089	0.4326	0.04076	0.4576	0.3134	-0.0442	0.2435	0.159
	Θ	1.327	0.497	0.7451	1.279	0.4995	0.4464	0.5646	0.3207	0.3773

TABLE XXVII

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 10$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	350.6	343.4	324.1	350.1	339.5	322.2	350.7	339.6	321
	σ_T	7.224	19.49	32.2	7.023	15.66	24.1	5.773	10.31	15.53
Gaussian Distribution	θ_1	350.6	343.4	324.1	350.1	339.5	322.2	350.7	339.6	321
	θ_2	7.224	19.49	32.2	7.023	15.66	24.1	5.773	10.31	15.53
	Θ	1.546	4.124	2.883	1.373	3.214	1.898	0.4992	1.885	1.078
WeiBull Distribution	θ_1	354	352	338.2	353.5	346.5	333	353.5	344.4	328.3
	θ_2	47.2	22.62	12.14	45.4	26.56	15.47	57.1	37.43	22.65
	Θ	4.415	2.097	1.098	5.503	1.013	1.273	4.651	1.739	2.325
Skew Normal Distribution	θ_1	351.5	365	347.7	350.5	352.1	333.3	350.7	344.2	324.8
	θ_2	7.208	17.59	31.04	7.02	14.88	23.7	5.773	10.14	15.45
	θ_3	0.08609	0.7602	0.468	0.03361	0.5247	0.2924	0.006772	0.2812	0.1533
	Θ	1.195	0.9916	0.9841	1.292	0.8247	0.5758	0.4811	0.4396	0.2752

TABLE XXVIII

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 12$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	377.1	369.9	350.5	376.6	366	348.6	377.2	366.1	347.5
	σ_T	7.232	19.52	32.26	7.03	15.69	24.14	5.779	10.33	15.56
Gaussian Distribution	θ_1	377.1	369.9	350.5	376.6	366	348.6	377.2	366.1	347.5
	θ_2	7.232	19.52	32.26	7.03	15.69	24.14	5.779	10.33	15.56
	Θ	1.549	4.126	2.889	1.375	3.216	1.903	0.5002	1.888	1.082
WeiBull Distribution	θ_1	380.6	378.5	364.7	380	373.1	359.5	380	370.9	354.8
	θ_2	50.65	24.33	13.1	48.71	28.57	16.69	61.28	40.25	24.43
	Θ	4.436	2.089	1.1	5.529	1.021	1.323	4.67	1.76	2.362
Skew Normal Distribution	θ_1	378	391.5	374.3	377	378.6	359.8	377.3	370.7	351.3
	θ_2	7.215	17.62	31.1	7.027	14.9	23.74	5.779	10.16	15.48
	θ_3	0.0865	0.7605	0.469	0.03405	0.5251	0.2931	0.007095	0.2816	0.1539
	Θ	1.195	0.9889	0.9819	1.292	0.8246	0.5753	0.4811	0.4401	0.2756

TABLE XXIX

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 14$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	403.6	396.4	377	403.2	392.5	375.1	403.7	392.6	374
	σ_T	7.237	19.54	32.3	7.035	15.7	24.17	5.783	10.34	15.59
Gaussian Distribution	θ_1	403.6	396.4	377	403.2	392.5	375.1	403.7	392.6	374
	θ_2	7.237	19.54	32.3	7.035	15.7	24.17	5.783	10.34	15.59
	Θ	1.55	4.128	2.893	1.375	3.218	1.906	0.5007	1.889	1.084
WeiBull Distribution	θ_1	407.1	405.1	391.3	406.6	399.6	386.1	406.6	397.5	381.3
	θ_2	54.12	26.04	14.07	52.02	30.59	17.92	65.48	43.09	26.22
	Θ	4.455	2.082	1.105	5.553	1.028	1.368	4.687	1.779	2.396
Skew Normal Distribution	θ_1	404.6	418.1	400.8	403.5	405.1	386.3	403.8	397.2	377.8
	θ_2	7.22	17.64	31.13	7.032	14.92	23.77	5.783	10.17	15.51
	θ_3	0.08676	0.7606	0.4695	0.03433	0.5254	0.2936	0.007299	0.2819	0.1543
	Θ	1.195	0.9872	0.9805	1.292	0.8246	0.575	0.4811	0.4404	0.2759

TABLE XXX

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 16$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	430.2	422.9	403.5	429.7	419	401.6	430.3	419.2	400.5
	σ_T	7.24	19.55	32.33	7.038	15.72	24.19	5.785	10.35	15.6
Gaussian Distribution	θ_1	430.2	422.9	403.5	429.7	419	401.6	430.3	419.2	400.5
	θ_2	7.24	19.55	32.33	7.038	15.72	24.19	5.785	10.35	15.6
	Θ	1.551	4.129	2.895	1.376	3.219	1.908	0.5011	1.89	1.086
WeiBull Distribution	θ_1	433.7	431.6	417.9	433.1	426.2	412.7	433.1	424	407.9
	θ_2	57.59	27.77	15.04	55.34	32.63	19.15	69.69	45.95	28.03
	Θ	4.473	2.076	1.112	5.576	1.035	1.408	4.703	1.796	2.425
Skew Normal Distribution	θ_1	431.1	444.6	427.4	430.1	431.7	412.9	430.4	423.8	404.3
	θ_2	7.223	17.65	31.15	7.035	14.93	23.79	5.785	10.18	15.52
	θ_3	0.08692	0.7607	0.4699	0.0345	0.5256	0.294	0.007428	0.282	0.1545
	Θ	1.195	0.9861	0.9796	1.292	0.8246	0.5748	0.4811	0.4406	0.2761

TABLE XXXI

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 18$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	456.7	449.5	430.1	456.3	445.6	428.2	456.9	445.7	427
	σ_T	7.242	19.56	32.34	7.04	15.72	24.21	5.787	10.36	15.61
Gaussian Distribution	θ_1	456.7	449.5	430.1	456.3	445.6	428.2	456.9	445.7	427
	θ_2	7.242	19.56	32.34	7.04	15.72	24.21	5.787	10.36	15.61
	Θ	1.551	4.129	2.897	1.376	3.22	1.91	0.5014	1.891	1.087
WeiBull Distribution	θ_1	460.2	458.2	444.5	459.7	452.7	439.2	459.7	450.6	434.4
	θ_2	61.07	29.5	16.01	58.67	34.67	20.38	73.9	48.81	29.84
	Θ	4.489	2.071	1.121	5.597	1.041	1.443	4.718	1.811	2.452
Skew Normal Distribution	θ_1	457.7	471.2	454	456.7	458.3	439.4	456.9	450.3	430.9
	θ_2	7.225	17.65	31.17	7.037	14.93	23.8	5.786	10.18	15.53
	θ_3	0.08703	0.7608	0.4701	0.03462	0.5257	0.2942	0.00751	0.2821	0.1546
	Θ	1.195	0.9854	0.9791	1.292	0.8246	0.5747	0.4811	0.4408	0.2762

TABLE XXXII

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 20$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	483.3	476.1	456.6	482.8	472.1	454.7	483.4	472.3	453.6
	σ_T	7.243	19.56	32.35	7.041	15.73	24.21	5.788	10.36	15.61
Gaussian Distribution	θ_1	483.3	476.1	456.6	482.8	472.1	454.7	483.4	472.3	453.6
	θ_2	7.243	19.56	32.35	7.041	15.73	24.21	5.788	10.36	15.61
	Θ	1.552	4.13	2.898	1.377	3.22	1.911	0.5015	1.891	1.087
WeiBull Distribution	θ_1	486.8	484.8	471.1	486.3	479.3	465.8	486.3	477.2	461
	θ_2	64.55	31.23	16.98	62	36.71	21.62	78.12	51.68	31.65
	Θ	4.504	2.066	1.13	5.616	1.048	1.475	4.731	1.824	2.476
Skew Normal Distribution	θ_1	484.3	497.7	480.5	483.2	484.8	466	483.5	476.9	457.4
	θ_2	7.226	17.66	31.17	7.038	14.94	23.8	5.787	10.19	15.53
	θ_3	0.08709	0.7608	0.4703	0.03469	0.5257	0.2943	0.007562	0.2822	0.1547
	Θ	1.195	0.985	0.9787	1.292	0.8246	0.5746	0.4811	0.4408	0.2762

TABLE XXXIII

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 22$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	509.9	502.6	483.2	509.4	498.7	481.3	510	498.8	480.2
	σ_T	7.244	19.57	32.36	7.042	15.73	24.22	5.788	10.36	15.62
Gaussian Distribution	θ_1	509.9	502.6	483.2	509.4	498.7	481.3	510	498.8	480.2
	θ_2	7.244	19.57	32.36	7.042	15.73	24.22	5.788	10.36	15.62
	Θ	1.552	4.13	2.898	1.377	3.22	1.911	0.5016	1.892	1.088
WeiBull Distribution	θ_1	513.4	511.4	497.8	512.8	505.9	492.4	512.8	503.7	487.6
	θ_2	68.04	32.96	17.96	65.33	38.76	22.86	82.34	54.55	33.47
	Θ	4.518	2.062	1.139	5.633	1.053	1.504	4.743	1.836	2.497
Skew Normal Distribution	θ_1	510.8	524.3	507.1	509.8	511.4	492.6	510.1	503.5	484
	θ_2	7.227	17.66	31.18	7.039	14.94	23.81	5.788	10.19	15.54
	θ_3	0.08713	0.7608	0.4704	0.03473	0.5258	0.2944	0.007594	0.2822	0.1548
	Θ	1.195	0.9847	0.9785	1.292	0.8246	0.5746	0.4811	0.4409	0.2763

TABLE XXXIV

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 24$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	536.4	529.2	509.8	536	525.3	507.8	536.6	525.4	506.7
	σ_T	7.245	19.57	32.36	7.042	15.73	24.22	5.789	10.36	15.62
Gaussian Distribution	θ_1	536.4	529.2	509.8	536	525.3	507.8	536.6	525.4	506.7
	θ_2	7.245	19.57	32.36	7.042	15.73	24.22	5.789	10.36	15.62
	Θ	1.552	4.13	2.899	1.377	3.221	1.911	0.5017	1.892	1.088
WeiBull Distribution	θ_1	539.9	538	524.4	539.4	532.5	519	539.4	530.3	514.1
	θ_2	71.52	34.69	18.93	68.66	40.81	24.1	86.57	57.43	35.29
	Θ	4.53	2.059	1.148	5.649	1.059	1.53	4.754	1.848	2.516
Skew Normal Distribution	θ_1	537.4	550.9	533.7	536.4	538	519.1	536.6	530	510.6
	θ_2	7.228	17.66	31.18	7.039	14.94	23.81	5.788	10.19	15.54
	θ_3	0.08716	0.7609	0.4704	0.03476	0.5258	0.2944	0.007615	0.2822	0.1548
	Θ	1.195	0.9846	0.9783	1.292	0.8246	0.5746	0.4811	0.4409	0.2763

TABLE XXXV

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 26$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	563	555.8	536.3	562.6	551.8	534.4	563.1	552	533.3
	σ_T	7.245	19.57	32.37	7.043	15.73	24.22	5.789	10.36	15.62
Gaussian Distribution	θ_1	563	555.8	536.3	562.6	551.8	534.4	563.1	552	533.3
	θ_2	7.245	19.57	32.37	7.043	15.73	24.22	5.789	10.36	15.62
	Θ	1.552	4.13	2.899	1.377	3.221	1.912	0.5017	1.892	1.088
WeiBull Distribution	θ_1	566.5	564.5	551	566	559	545.6	566	556.9	540.7
	θ_2	75.01	36.43	19.91	71.99	42.86	25.34	90.79	60.31	37.11
	Θ	4.542	2.056	1.158	5.663	1.064	1.553	4.764	1.858	2.534
Skew Normal Distribution	θ_1	564	577.5	560.2	562.9	564.5	545.7	563.2	556.6	537.1
	θ_2	7.228	17.66	31.19	7.039	14.94	23.81	5.789	10.19	15.54
	θ_3	0.08717	0.7609	0.4705	0.03478	0.5258	0.2944	0.007628	0.2823	0.1549
	Θ	1.195	0.9845	0.9783	1.292	0.8246	0.5745	0.4811	0.4409	0.2763

TABLE XXXVI

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 28$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	589.6	582.3	562.9	589.1	578.4	561	589.7	578.6	559.9
	σ_T	7.245	19.57	32.37	7.043	15.73	24.22	5.789	10.36	15.62
Gaussian Distribution	θ_1	589.6	582.3	562.9	589.1	578.4	561	589.7	578.6	559.9
	θ_2	7.245	19.57	32.37	7.043	15.73	24.22	5.789	10.36	15.62
	Θ	1.552	4.13	2.899	1.377	3.221	1.912	0.5017	1.892	1.088
WeiBull Distribution	θ_1	593.1	591.1	577.6	592.6	585.6	572.2	592.6	583.5	567.3
	θ_2	78.5	38.17	20.88	75.33	44.91	26.58	95.02	63.19	38.93
	Θ	4.552	2.054	1.167	5.677	1.068	1.575	4.773	1.867	2.55
Skew Normal Distribution	θ_1	590.6	604	586.8	589.5	591.1	572.3	589.8	583.2	563.7
	θ_2	7.228	17.66	31.19	7.04	14.94	23.81	5.789	10.19	15.54
	θ_3	0.08718	0.7609	0.4705	0.03479	0.5258	0.2945	0.007636	0.2823	0.1549
	Θ	1.195	0.9844	0.9782	1.292	0.8246	0.5745	0.4811	0.441	0.2763

TABLE XXXVII

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 30$ dB, AND $M = 2,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	616.2	608.9	589.5	615.7	605	587.6	616.3	605.1	586.4
	σ_T	7.245	19.57	32.37	7.043	15.73	24.22	5.789	10.36	15.62
Gaussian Distribution	θ_1	616.2	608.9	589.5	615.7	605	587.6	616.3	605.1	586.4
	θ_2	7.245	19.57	32.37	7.043	15.73	24.22	5.789	10.36	15.62
	Θ	1.552	4.13	2.899	1.377	3.221	1.912	0.5017	1.892	1.088
WeiBull Distribution	θ_1	619.7	617.7	604.2	619.1	612.2	598.8	619.1	610	593.9
	θ_2	81.99	39.9	21.86	78.66	46.96	27.82	99.24	66.07	40.75
	Θ	4.562	2.051	1.175	5.689	1.073	1.594	4.781	1.875	2.564
Skew Normal Distribution	θ_1	617.1	630.6	613.4	616.1	617.7	598.9	616.4	609.7	590.3
	θ_2	7.228	17.66	31.19	7.04	14.94	23.82	5.789	10.19	15.54
	θ_3	0.08719	0.7609	0.4705	0.03479	0.5259	0.2945	0.007641	0.2823	0.1549
	Θ	1.195	0.9844	0.9782	1.292	0.8246	0.5745	0.4811	0.441	0.2763

TABLE XXXVIII

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 10$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	614	609.7	598.8	615.7	612.5	604	615.9	612.3	603.2
	σ_T	6.162	18.83	27.23	6.12	13.9	19.42	5.669	9.17	12.56
Gaussian Distribution	θ_1	614	609.7	598.8	615.7	612.5	604	615.9	612.3	603.2
	θ_2	6.162	18.83	27.23	6.12	13.9	19.42	5.669	9.17	12.56
	Θ	2.448	5.07	2.26	1.561	3.511	1.6	0.7427	1.836	0.884
WeiBull Distribution	θ_1	616.9	618.1	611.4	618.6	618.8	613.1	618.7	616.6	609.3
	θ_2	101.1	42.47	25.55	101.6	53.81	34.96	99.78	73.82	51.6
	Θ	4.185	2.471	1.345	4.141	0.7856	1.993	5.324	1.979	2.823
Skew Normal Distribution	θ_1	616.1	629.2	613.5	616.8	622.9	611.3	615.5	615.8	606
	θ_2	6.061	16.76	26.66	6.093	13.19	19.2	5.665	9.049	12.51
	θ_3	0.2226	0.731	0.339	0.1206	0.4946	0.2358	−0.04781	0.246	0.1352
	Θ	1.776	0.7423	0.7178	1.231	0.2978	0.4797	0.7351	0.1869	0.3796

TABLE XXXIX

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 12$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	640.6	636.3	625.4	642.2	639	630.6	642.5	638.9	629.8
	σ_T	6.162	18.83	27.23	6.12	13.9	19.42	5.669	9.17	12.56
Gaussian Distribution	θ_1	640.6	636.3	625.4	642.2	639	630.6	642.5	638.9	629.8
	θ_2	6.162	18.83	27.23	6.12	13.9	19.42	5.669	9.17	12.56
	Θ	2.448	5.07	2.26	1.561	3.511	1.6	0.7427	1.836	0.8841
WeiBull Distribution	θ_1	643.5	644.7	638	645.2	645.4	639.7	645.3	643.2	635.9
	θ_2	105.4	44.32	26.67	105.9	56.13	36.48	104	76.99	53.85
	Θ	4.193	2.464	1.362	4.147	0.7873	2.008	5.331	1.986	2.833
Skew Normal Distribution	θ_1	642.7	655.7	640	643.4	649.5	637.9	642.1	642.4	632.5
	θ_2	6.061	16.76	26.66	6.093	13.19	19.2	5.665	9.049	12.51
	θ_3	0.2226	0.731	0.339	0.1206	0.4946	0.2358	−0.04781	0.2461	0.1352
	Θ	1.776	0.7423	0.7178	1.231	0.2978	0.4797	0.7351	0.1869	0.3796

TABLE XL

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 14$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	667.2	662.9	652	668.8	665.6	657.2	669.1	665.4	656.4
	σ_T	6.162	18.83	27.23	6.121	13.9	19.42	5.669	9.17	12.56
Gaussian Distribution	θ_1	667.2	662.9	652	668.8	665.6	657.2	669.1	665.4	656.4
	θ_2	6.162	18.83	27.23	6.121	13.9	19.42	5.669	9.17	12.56
	Θ	2.448	5.07	2.26	1.561	3.511	1.6	0.7427	1.836	0.8841
WeiBull Distribution	θ_1	670.1	671.3	664.6	671.8	672	666.3	671.9	669.8	662.5
	θ_2	109.8	46.17	27.79	110.2	58.45	37.99	108.3	80.17	56.1
	Θ	4.2	2.458	1.377	4.153	0.789	2.021	5.338	1.993	2.842
Skew Normal Distribution	θ_1	669.2	682.3	666.6	669.9	676	664.4	668.6	669	659.1
	θ_2	6.061	16.76	26.66	6.093	13.19	19.2	5.665	9.049	12.51
	θ_3	0.2226	0.731	0.339	0.1206	0.4946	0.2358	−0.04781	0.2461	0.1352
	Θ	1.776	0.7423	0.7178	1.231	0.2978	0.4797	0.7351	0.1869	0.3796

TABLE XLI

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 16$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	693.8	689.5	678.5	695.4	692.2	683.7	695.6	692	683
	σ_T	6.162	18.83	27.23	6.121	13.9	19.42	5.669	9.17	12.56
Gaussian Distribution	θ_1	693.8	689.5	678.5	695.4	692.2	683.7	695.6	692	683
	θ_2	6.162	18.83	27.23	6.121	13.9	19.42	5.669	9.17	12.56
	Θ	2.448	5.07	2.26	1.561	3.511	1.6	0.7427	1.836	0.8841
WeiBull Distribution	θ_1	696.6	697.9	691.2	698.3	698.6	692.9	698.5	696.4	689
	θ_2	114.1	48.02	28.9	114.6	60.78	39.51	112.5	83.35	58.35
	Θ	4.207	2.452	1.391	4.158	0.7907	2.033	5.344	1.999	2.851
Skew Normal Distribution	θ_1	695.8	708.9	693.2	696.5	702.6	691	695.2	695.6	685.7
	θ_2	6.061	16.76	26.66	6.093	13.19	19.2	5.665	9.049	12.51
	θ_3	0.2226	0.731	0.339	0.1206	0.4946	0.2358	-0.0478	0.2461	0.1352
	Θ	1.776	0.7423	0.7178	1.231	0.2978	0.4797	0.7351	0.1869	0.3796

TABLE XLII

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 18$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	720.3	716	705.1	722	718.8	710.3	722.2	718.6	709.5
	σ_T	6.162	18.83	27.23	6.121	13.9	19.42	5.669	9.17	12.56
Gaussian Distribution	θ_1	720.3	716	705.1	722	718.8	710.3	722.2	718.6	709.5
	θ_2	6.162	18.83	27.23	6.121	13.9	19.42	5.669	9.17	12.56
	Θ	2.448	5.07	2.26	1.561	3.511	1.6	0.7427	1.836	0.8841
WeiBull Distribution	θ_1	723.2	724.5	717.8	724.9	725.2	719.5	725	723	715.6
	θ_2	118.4	49.86	30.02	118.9	63.1	41.03	116.8	86.53	60.6
	Θ	4.213	2.447	1.404	4.163	0.7922	2.044	5.35	2.005	2.859
Skew Normal Distribution	θ_1	722.4	735.5	719.8	723.1	729.2	717.6	721.8	722.1	712.3
	θ_2	6.061	16.76	26.66	6.093	13.19	19.2	5.665	9.049	12.51
	θ_3	0.2226	0.731	0.339	0.1206	0.4946	0.2358	-0.0478	0.2461	0.1352
	Θ	1.776	0.7424	0.7178	1.231	0.2978	0.4797	0.7351	0.1869	0.3796

TABLE XLIII

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 20$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	746.9	742.6	731.7	748.5	745.3	736.9	748.8	745.2	736.1
	σ_T	6.162	18.83	27.23	6.121	13.9	19.42	5.669	9.17	12.56
Gaussian Distribution	θ_1	746.9	742.6	731.7	748.5	745.3	736.9	748.8	745.2	736.1
	θ_2	6.162	18.83	27.23	6.121	13.9	19.42	5.669	9.17	12.56
	Θ	2.448	5.07	2.26	1.561	3.511	1.6	0.7427	1.836	0.8841
WeiBull Distribution	θ_1	749.8	751	744.4	751.5	751.7	746.1	751.6	749.5	742.2
	θ_2	122.7	51.71	31.14	123.3	65.42	42.55	121	89.71	62.85
	Θ	4.219	2.442	1.417	4.168	0.7938	2.055	5.355	2.01	2.866
Skew Normal Distribution	θ_1	749	762	746.3	749.7	755.8	744.2	748.4	748.7	738.8
	θ_2	6.061	16.76	26.66	6.093	13.19	19.2	5.665	9.049	12.51
	θ_3	0.2226	0.731	0.339	0.1206	0.4946	0.2358	-0.0478	0.2461	0.1352
	Θ	1.776	0.7424	0.7178	1.231	0.2978	0.4797	0.7351	0.1869	0.3796

TABLE XLIV

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 22$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	773.5	769.2	758.3	775.1	771.9	763.5	775.4	771.7	762.7
	σ_T	6.162	18.83	27.23	6.121	13.9	19.42	5.669	9.171	12.56
Gaussian Distribution	θ_1	773.5	769.2	758.3	775.1	771.9	763.5	775.4	771.7	762.7
	θ_2	6.162	18.83	27.23	6.121	13.9	19.42	5.669	9.171	12.56
	Θ	2.448	5.07	2.26	1.561	3.511	1.6	0.7427	1.836	0.8841
WeiBull Distribution	θ_1	776.4	777.6	771	778.1	778.3	772.7	778.2	776.1	768.8
	θ_2	127	53.56	32.26	127.6	67.75	44.07	125.3	92.88	65.09
	Θ	4.225	2.438	1.428	4.172	0.7952	2.065	5.36	2.015	2.873
Skew Normal Distribution	θ_1	775.5	788.6	772.9	776.2	782.3	770.7	774.9	775.3	765.4
	θ_2	6.061	16.76	26.66	6.093	13.19	19.2	5.665	9.049	12.51
	θ_3	0.2226	0.731	0.339	0.1206	0.4946	0.2358	-0.0478	0.2461	0.1352
	Θ	1.776	0.7424	0.7178	1.231	0.2978	0.4797	0.7351	0.1869	0.3796

TABLE XLV

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 24$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	800.1	795.8	784.8	801.7	798.5	790	801.9	798.3	789.3
	σ_T	6.162	18.83	27.23	6.121	13.9	19.42	5.669	9.171	12.56
Gaussian Distribution	θ_1	800.1	795.8	784.8	801.7	798.5	790	801.9	798.3	789.3
	θ_2	6.162	18.83	27.23	6.121	13.9	19.42	5.669	9.171	12.56
	Θ	2.448	5.07	2.26	1.561	3.511	1.6	0.7427	1.836	0.8841
WeiBull Distribution	θ_1	802.9	804.2	797.5	804.6	804.9	799.2	804.8	802.7	795.3
	θ_2	131.4	55.41	33.38	132	70.07	45.59	129.6	96.06	67.34
	Θ	4.23	2.433	1.439	4.176	0.7966	2.074	5.365	2.019	2.88
Skew Normal Distribution	θ_1	802.1	815.2	799.5	802.8	808.9	797.3	801.5	801.9	792
	θ_2	6.061	16.76	26.66	6.093	13.19	19.2	5.665	9.049	12.51
	θ_3	0.2226	0.731	0.339	0.1206	0.4946	0.2358	-0.0478	0.2461	0.1352
	Θ	1.776	0.7424	0.7178	1.231	0.2978	0.4797	0.7351	0.1869	0.3796

TABLE XLVI

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 26$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	826.6	822.3	811.4	828.3	825.1	816.6	828.5	824.9	815.9
	σ_T	6.162	18.83	27.23	6.121	13.9	19.42	5.669	9.171	12.56
Gaussian Distribution	θ_1	826.6	822.3	811.4	828.3	825.1	816.6	828.5	824.9	815.9
	θ_2	6.162	18.83	27.23	6.121	13.9	19.42	5.669	9.171	12.56
	Θ	2.448	5.07	2.26	1.561	3.511	1.6	0.7427	1.836	0.8841
WeiBull Distribution	θ_1	829.5	830.8	824.1	831.2	831.5	825.8	831.4	829.3	821.9
	θ_2	135.7	57.26	34.5	136.3	72.39	47.11	133.8	99.24	69.59
	Θ	4.235	2.429	1.449	4.18	0.798	2.082	5.369	2.024	2.886
Skew Normal Distribution	θ_1	828.7	841.8	826.1	829.4	835.5	823.9	828.1	828.4	818.6
	θ_2	6.061	16.76	26.66	6.093	13.19	19.2	5.665	9.049	12.51
	θ_3	0.2226	0.731	0.339	0.1206	0.4946	0.2358	-0.0478	0.2461	0.1352
	Θ	1.776	0.7424	0.7178	1.231	0.2978	0.4797	0.7351	0.1869	0.3796

TABLE XLVII

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 28$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	853.2	848.9	838	854.8	851.6	843.2	855.1	851.5	842.4
	σ_T	6.162	18.83	27.23	6.121	13.9	19.42	5.669	9.171	12.56
Gaussian Distribution	θ_1	853.2	848.9	838	854.8	851.6	843.2	855.1	851.5	842.4
	θ_2	6.162	18.83	27.23	6.121	13.9	19.42	5.669	9.171	12.56
	Θ	2.448	5.07	2.26	1.561	3.511	1.6	0.7427	1.836	0.8841
WeiBull Distribution	θ_1	856.1	857.4	850.7	857.8	858.1	852.4	857.9	855.8	848.5
	θ_2	140	59.1	35.62	140.7	74.71	48.63	138.1	102.4	71.84
	Θ	4.239	2.426	1.458	4.183	0.7993	2.09	5.374	2.028	2.892
Skew Normal Distribution	θ_1	855.3	868.3	852.6	856	862.1	850.5	854.7	855	845.1
	θ_2	6.061	16.76	26.66	6.093	13.2	19.2	5.665	9.049	12.51
	θ_3	0.2226	0.731	0.339	0.1206	0.4946	0.2358	-0.0478	0.2461	0.1352
	Θ	1.776	0.7424	0.7178	1.231	0.2978	0.4797	0.7351	0.1869	0.3796

TABLE XLVIII

PARAMETRIC FITTING RESULTS. $N_{\text{UE}} = 8$, $\gamma_o = 30$ dB, AND $M = 200,000$.

	Case	**Case 1**			**Case 2**			**Case 3**		
	$d_\perp$	1 m	25 m	50 m	1 m	25 m	50 m	1 m	25 m	50 m
Monte Carlo Trial	μ_T	879.8	875.5	864.6	881.4	878.2	869.8	881.7	878	869
	σ_T	6.162	18.83	27.23	6.121	13.9	19.42	5.669	9.171	12.56
Gaussian Distribution	θ_1	879.8	875.5	864.6	881.4	878.2	869.8	881.7	878	869
	θ_2	6.162	18.83	27.23	6.121	13.9	19.42	5.669	9.171	12.56
	Θ	2.448	5.07	2.26	1.561	3.511	1.6	0.7427	1.836	0.8841
WeiBull Distribution	θ_1	882.7	883.9	877.3	884.4	884.6	879	884.5	882.4	875.1
	θ_2	144.3	60.95	36.74	145	77.04	50.15	142.3	105.6	74.09
	Θ	4.244	2.422	1.467	4.186	0.8005	2.098	5.377	2.031	2.897
Skew Normal Distribution	θ_1	881.8	894.9	879.2	882.5	888.6	877	881.3	881.6	871.7
	θ_2	6.061	16.76	26.66	6.093	13.2	19.2	5.665	9.049	12.51
	θ_3	0.2226	0.731	0.339	0.1206	0.4946	0.2358	-0.0478	0.2461	0.1352
	Θ	1.776	0.7424	0.7178	1.231	0.2978	0.4797	0.7351	0.1869	0.3796