

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-01904
Page (96) / (223) pages

	14	3.530 to 3.600	-40.60	-40.09	-40.72	-40.41	-37.04	-3.05
		3.600 to 3.609	-38.83	-39.05	-39.91	-38.98	-25.04	-13.79
		3.609 to 3.610	-34.49	-34.37	-33.93	-34.82	-25.04	-8.89
		3.640 to 3.641	-33.13	-35.20	-35.97	-34.95	-25.04	-8.09
		3.641 to 3.650	-39.83	-39.49	-40.35	-39.87	-25.04	-14.45
	15	3.650 to 3.720	-40.55	-40.32	-40.91	-40.75	-37.04	-3.28
		3.530 to 3.600	-41.62	-42.00	-41.90	-42.15	-37.04	-4.58
		3.600 to 3.609	-39.87	-39.74	-40.43	-39.89	-25.04	-14.70
		3.609 to 3.610	-36.10	-35.22	-32.20	-34.92	-25.04	-7.16
		3.640 to 3.641	-33.70	-34.92	-35.25	-34.44	-25.04	-8.66
High	0	3.641 to 3.650	-40.74	-40.62	-41.04	-41.08	-25.04	-15.58
		3.650 to 3.720	-41.87	-41.70	-42.27	-41.90	-37.04	-4.66
		3.530 to 3.660	-40.58	-40.16	-40.40	-40.12	-37.04	-3.08
		3.660 to 3.669	-40.22	-40.11	-40.26	-40.26	-25.04	-15.07
		3.669 to 3.670	-35.63	-33.99	-35.34	-35.61	-25.04	-8.95
	1	3.700 to 3.701	-35.32	-34.53	-35.83	-36.17	-25.04	-9.49
		3.701 to 3.710	-40.45	-40.62	-40.71	-40.92	-25.04	-15.41
		3.710 to 3.720	-40.76	-40.66	-41.08	-41.10	-37.04	-3.62
		3.530 to 3.660	-41.11	-41.16	-40.95	-41.14	-37.04	-3.91
		3.660 to 3.669	-40.40	-40.06	-40.64	-40.21	-25.04	-15.02
	2	3.669 to 3.670	-34.81	-35.51	-34.47	-34.42	-25.04	-9.38
		3.700 to 3.701	-35.13	-36.44	-34.76	-34.50	-25.04	-9.46
		3.701 to 3.710	-40.88	-40.63	-40.95	-41.01	-25.04	-15.59
		3.710 to 3.720	-41.24	-40.73	-40.48	-41.67	-37.04	-3.44
		3.530 to 3.660	-39.88	-40.07	-40.21	-40.03	-37.04	-2.84
	3	3.660 to 3.669	-39.78	-39.53	-39.71	-39.77	-25.04	-14.49
		3.669 to 3.670	-35.04	-32.57	-34.71	-33.50	-25.04	-7.53
		3.700 to 3.701	-35.48	-35.23	-34.06	-33.82	-25.04	-8.78
		3.701 to 3.710	-39.92	-39.77	-40.28	-40.39	-25.04	-14.73
		3.710 to 3.720	-40.20	-40.12	-40.09	-40.81	-37.04	-3.05
	4	3.530 to 3.660	-40.91	-41.09	-40.96	-40.93	-37.04	-3.87
		3.660 to 3.669	-40.35	-40.39	-40.50	-40.60	-25.04	-15.31
		3.669 to 3.670	-35.23	-32.48	-33.77	-34.03	-25.04	-7.44
		3.700 to 3.701	-35.49	-35.24	-33.16	-34.74	-25.04	-8.12
		3.701 to 3.710	-40.65	-40.61	-40.61	-40.82	-25.04	-15.57
	5	3.710 to 3.720	-41.27	-40.95	-40.79	-41.37	-37.04	-3.75
		3.530 to 3.660	-40.63	-40.50	-40.53	-40.86	-37.04	-3.46
		3.660 to 3.669	-40.39	-40.43	-40.50	-40.17	-25.04	-15.13
		3.669 to 3.670	-34.72	-33.60	-34.57	-34.37	-25.04	-8.56
		3.700 to 3.701	-34.97	-34.51	-33.77	-35.49	-25.04	-8.73
	6	3.701 to 3.710	-40.75	-40.89	-40.81	-40.99	-25.04	-15.71
		3.710 to 3.720	-41.41	-41.17	-41.18	-41.21	-37.04	-4.13
		3.530 to 3.660	-40.81	-40.66	-40.91	-40.71	-37.04	-3.62
		3.660 to 3.669	-40.36	-39.74	-40.71	-40.83	-25.04	-14.70
		3.669 to 3.670	-34.22	-33.36	-34.44	-34.84	-25.04	-8.32
	7	3.700 to 3.701	-35.46	-35.65	-33.71	-34.57	-25.04	-8.67
		3.701 to 3.710	-40.88	-40.53	-40.87	-41.00	-25.04	-15.49
		3.710 to 3.720	-41.25	-41.05	-41.10	-41.33	-37.04	-4.01
		3.530 to 3.660	-39.94	-40.42	-40.36	-40.55	-37.04	-2.90
		3.660 to 3.669	-39.84	-39.72	-39.86	-39.78	-25.04	-14.68
	8	3.669 to 3.670	-34.25	-32.97	-34.71	-35.20	-25.04	-7.93
		3.700 to 3.701	-35.05	-34.54	-32.37	-35.24	-25.04	-7.33
		3.701 to 3.710	-40.62	-40.30	-40.66	-40.64	-25.04	-15.26
		3.710 to 3.720	-40.75	-40.82	-40.76	-40.75	-37.04	-3.71
		3.530 to 3.660	-40.32	-40.48	-40.57	-40.66	-37.04	-3.28
		3.660 to 3.669	-39.78	-39.50	-40.21	-39.74	-25.04	-14.46
		3.669 to 3.670	-33.59	-34.21	-33.01	-34.12	-25.04	-7.97
		3.700 to 3.701	-34.97	-35.32	-32.98	-34.37	-25.04	-7.94
		3.701 to 3.710	-40.52	-39.99	-40.49	-40.70	-25.04	-14.95
		3.710 to 3.720	-40.77	-40.55	-40.55	-40.96	-37.04	-3.51
		3.530 to 3.660	-39.68	-39.99	-39.85	-40.11	-37.04	-2.64

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-01904
Page (97) / (223) pages

		3.660 to 3.669	-39.24	-39.61	-39.59	-39.72	-25.04	-14.20
		3.669 to 3.670	-35.12	-34.20	-35.38	-33.19	-25.04	-8.15
		3.700 to 3.701	-35.46	-36.29	-34.85	-35.26	-25.04	-9.81
		3.701 to 3.710	-40.11	-40.08	-40.38	-40.40	-25.04	-15.04
	9	3.710 to 3.720	-40.19	-40.37	-40.42	-40.95	-37.04	-3.15
		3.530 to 3.660	-41.23	-41.21	-41.03	-41.35	-37.04	-3.99
		3.660 to 3.669	-40.71	-40.39	-40.76	-40.69	-25.04	-15.35
		3.669 to 3.670	-33.46	-34.33	-34.01	-33.40	-25.04	-8.36
		3.700 to 3.701	-35.71	-35.00	-34.46	-34.99	-25.04	-9.42
		3.701 to 3.710	-41.32	-40.77	-40.86	-41.33	-25.04	-15.73
	10	3.710 to 3.720	-41.90	-41.43	-41.69	-41.45	-37.04	-4.39
		3.530 to 3.660	-39.72	-40.10	-40.04	-39.69	-37.04	-2.65
		3.660 to 3.669	-39.90	-39.84	-39.85	-40.10	-25.04	-14.80
		3.669 to 3.670	-35.76	-34.24	-35.15	-32.71	-25.04	-7.67
		3.700 to 3.701	-33.49	-34.40	-33.73	-33.58	-25.04	-8.45
		3.701 to 3.710	-40.36	-40.18	-40.46	-40.33	-25.04	-15.14
	11	3.710 to 3.720	-40.48	-40.13	-40.47	-40.92	-37.04	-3.09
		3.530 to 3.660	-40.07	-40.55	-40.47	-40.52	-37.04	-3.03
		3.660 to 3.669	-40.23	-40.10	-40.22	-40.44	-25.04	-15.06
		3.669 to 3.670	-34.73	-35.20	-34.06	-34.17	-25.04	-9.02
		3.700 to 3.701	-34.92	-33.61	-33.53	-34.86	-25.04	-8.49
		3.701 to 3.710	-40.60	-40.50	-40.83	-40.87	-25.04	-15.46
	12	3.710 to 3.720	-40.98	-40.71	-40.95	-41.15	-37.04	-3.67
		3.530 to 3.660	-40.55	-40.82	-40.63	-40.92	-37.04	-3.51
		3.660 to 3.669	-40.31	-40.26	-40.32	-40.53	-25.04	-15.22
		3.669 to 3.670	-35.18	-35.17	-34.39	-34.75	-25.04	-9.35
		3.700 to 3.701	-36.32	-36.21	-33.94	-36.00	-25.04	-8.90
		3.701 to 3.710	-40.94	-40.84	-40.86	-41.17	-25.04	-15.80
	13	3.710 to 3.720	-41.54	-41.34	-41.36	-41.34	-37.04	-4.30
		3.530 to 3.660	-40.46	-40.67	-40.64	-40.32	-37.04	-3.28
		3.660 to 3.669	-40.21	-39.74	-40.42	-40.54	-25.04	-14.70
		3.669 to 3.670	-33.48	-34.61	-33.76	-33.00	-25.04	-7.96
		3.700 to 3.701	-34.65	-33.99	-33.99	-35.37	-25.04	-8.95
		3.701 to 3.710	-40.76	-40.33	-40.54	-40.79	-25.04	-15.29
	14	3.710 to 3.720	-40.87	-40.74	-40.99	-41.01	-37.04	-3.70
		3.530 to 3.660	-40.75	-40.60	-40.87	-40.66	-37.04	-3.56
		3.660 to 3.669	-39.79	-39.91	-40.08	-40.33	-25.04	-14.75
		3.669 to 3.670	-34.93	-34.72	-34.87	-34.22	-25.04	-9.18
		3.700 to 3.701	-34.46	-34.40	-34.67	-34.86	-25.04	-9.36
		3.701 to 3.710	-40.61	-40.80	-40.83	-40.66	-25.04	-15.57
	15	3.710 to 3.720	-40.99	-40.94	-40.82	-40.89	-37.04	-3.78
		3.530 to 3.660	-41.63	-41.62	-41.82	-41.81	-37.04	-4.58
		3.660 to 3.669	-41.40	-40.84	-41.10	-41.66	-25.04	-15.80
		3.669 to 3.670	-34.63	-35.06	-33.72	-35.12	-25.04	-8.68
		3.700 to 3.701	-36.14	-34.53	-33.50	-35.85	-25.04	-8.46
		3.701 to 3.710	-41.99	-41.66	-41.95	-42.35	-25.04	-16.62
		3.710 to 3.720	-42.37	-42.22	-42.44	-42.59	-37.04	-5.18

Table 8-36. Channel Edge Emission Summary Data (n48_1C_30M)

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-01904
Page (98) / (223) pages

Ch.	Port	Measured Range (GHz)	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	3.530 to 3.540	-46.49	-46.43	-46.30	-46.42	-37.04	-9.26
		3.540 to 3.549	-41.37	-41.11	-41.02	-41.52	-25.04	-15.98
		3.549 to 3.550	-29.39	-31.67	-30.96	-29.87	-25.04	-4.35
		3.590 to 3.591	-29.79	-29.73	-29.56	-29.60	-25.04	-4.52
		3.591 to 3.600	-40.37	-40.65	-40.24	-40.22	-25.04	-15.18
		3.600 to 3.720	-40.45	-40.45	-40.34	-39.95	-37.04	-2.91
	1	3.530 to 3.540	-46.72	-46.77	-46.44	-46.64	-37.04	-9.40
		3.540 to 3.549	-42.31	-42.69	-42.29	-42.41	-25.04	-17.25
		3.549 to 3.550	-30.34	-30.95	-31.02	-31.68	-25.04	-5.30
		3.590 to 3.591	-29.65	-29.91	-29.01	-30.42	-25.04	-3.97
		3.591 to 3.600	-40.96	-41.06	-41.08	-40.79	-25.04	-15.75
		3.600 to 3.720	-41.16	-41.00	-41.01	-40.35	-37.04	-3.31
	2	3.530 to 3.540	-45.65	-45.94	-45.74	-45.93	-37.04	-8.61
		3.540 to 3.549	-40.93	-40.80	-41.37	-41.09	-25.04	-15.76
		3.549 to 3.550	-30.43	-30.27	-29.68	-29.38	-25.04	-4.34
		3.590 to 3.591	-29.33	-27.86	-29.86	-30.09	-25.04	-2.82
		3.591 to 3.600	-40.12	-40.10	-40.10	-39.90	-25.04	-14.86
		3.600 to 3.720	-39.72	-39.99	-39.83	-39.76	-37.04	-2.68
	3	3.530 to 3.540	-47.01	-47.13	-47.04	-47.16	-37.04	-9.97
		3.540 to 3.549	-41.88	-42.11	-41.54	-42.28	-25.04	-16.50
		3.549 to 3.550	-31.33	-30.10	-31.30	-30.40	-25.04	-5.06
		3.590 to 3.591	-29.74	-28.85	-30.14	-30.99	-25.04	-3.81
		3.591 to 3.600	-40.58	-40.94	-41.05	-41.00	-25.04	-15.54
		3.600 to 3.720	-40.73	-40.56	-40.63	-40.63	-37.04	-3.52
	4	3.530 to 3.540	-46.21	-46.29	-46.09	-45.98	-37.04	-8.94
		3.540 to 3.549	-41.71	-41.92	-41.52	-42.32	-25.04	-16.48
		3.549 to 3.550	-30.53	-31.76	-29.27	-31.40	-25.04	-4.23
		3.590 to 3.591	-29.84	-30.90	-30.16	-29.18	-25.04	-4.14
		3.591 to 3.600	-40.76	-40.85	-40.69	-40.77	-25.04	-15.65
		3.600 to 3.720	-40.55	-40.64	-40.62	-40.75	-37.04	-3.51
	5	3.530 to 3.540	-47.64	-48.02	-47.57	-47.76	-37.04	-10.53
		3.540 to 3.549	-42.36	-42.18	-41.92	-42.35	-25.04	-16.88
		3.549 to 3.550	-29.53	-29.65	-30.88	-30.91	-25.04	-4.49
		3.590 to 3.591	-30.72	-29.29	-29.42	-29.51	-25.04	-4.25
		3.591 to 3.600	-40.66	-40.95	-40.99	-40.99	-25.04	-15.62
		3.600 to 3.720	-40.75	-40.63	-40.93	-40.54	-37.04	-3.50
	6	3.530 to 3.540	-46.51	-46.48	-46.56	-46.25	-37.04	-9.21
		3.540 to 3.549	-41.39	-40.89	-41.09	-41.71	-25.04	-15.85
		3.549 to 3.550	-30.79	-30.54	-29.62	-31.13	-25.04	-4.58
		3.590 to 3.591	-28.03	-28.48	-30.16	-28.56	-25.04	-2.99
		3.591 to 3.600	-40.02	-39.82	-40.16	-40.78	-25.04	-14.78
		3.600 to 3.720	-40.20	-39.93	-40.19	-39.93	-37.04	-2.89
	7	3.530 to 3.540	-46.68	-46.72	-46.43	-46.52	-37.04	-9.39
		3.540 to 3.549	-41.16	-41.62	-41.65	-41.60	-25.04	-16.12
		3.549 to 3.550	-30.72	-29.49	-30.51	-29.67	-25.04	-4.45
		3.590 to 3.591	-28.98	-30.40	-28.93	-28.88	-25.04	-3.84
		3.591 to 3.600	-40.48	-40.84	-40.58	-40.88	-25.04	-15.44
		3.600 to 3.720	-40.21	-40.34	-40.57	-40.03	-37.04	-2.99
	8	3.530 to 3.540	-45.82	-45.94	-46.11	-45.94	-37.04	-8.78
		3.540 to 3.549	-41.25	-41.12	-40.76	-40.60	-25.04	-15.56
		3.549 to 3.550	-30.60	-29.13	-29.96	-30.21	-25.04	-4.09
		3.590 to 3.591	-30.01	-29.54	-29.72	-30.72	-25.04	-4.50
		3.591 to 3.600	-39.68	-40.08	-40.00	-40.19	-25.04	-14.64
		3.600 to 3.720	-39.78	-39.59	-39.54	-39.70	-37.04	-2.50
	9	3.530 to 3.540	-46.90	-46.64	-46.65	-47.03	-37.04	-9.60
		3.540 to 3.549	-41.59	-42.05	-42.33	-42.17	-25.04	-16.55
		3.549 to 3.550	-31.29	-31.29	-30.56	-29.64	-25.04	-4.60
		3.590 to 3.591	-29.42	-28.83	-31.20	-29.55	-25.04	-3.79

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-01904
Page (99) / (223) pages

Mid	10	3.591 to 3.600	-41.39	-41.42	-41.07	-41.58	-25.04	-16.03
		3.600 to 3.720	-41.09	-41.08	-41.15	-41.07	-37.04	-4.03
		3.530 to 3.540	-43.99	-44.37	-43.93	-44.12	-37.04	-6.89
		3.540 to 3.549	-40.98	-40.66	-40.86	-40.97	-25.04	-15.62
		3.549 to 3.550	-30.92	-30.47	-29.65	-29.38	-25.04	-4.34
		3.590 to 3.591	-30.02	-29.87	-29.52	-29.98	-25.04	-4.48
		3.591 to 3.600	-40.09	-39.90	-39.97	-40.09	-25.04	-14.86
	11	3.600 to 3.720	-39.83	-39.72	-39.91	-39.72	-37.04	-2.68
		3.530 to 3.540	-45.97	-45.84	-45.73	-45.91	-37.04	-8.69
		3.540 to 3.549	-41.76	-41.28	-41.04	-41.50	-25.04	-16.00
		3.549 to 3.550	-31.08	-29.34	-28.55	-29.42	-25.04	-3.51
		3.590 to 3.591	-28.36	-29.53	-30.48	-28.93	-25.04	-3.32
	12	3.591 to 3.600	-40.42	-40.36	-40.65	-40.78	-25.04	-15.32
		3.600 to 3.720	-40.22	-40.47	-40.18	-40.31	-37.04	-3.14
		3.530 to 3.540	-47.42	-47.44	-47.22	-47.58	-37.04	-10.18
		3.540 to 3.549	-41.76	-42.07	-42.23	-41.86	-25.04	-16.72
		3.549 to 3.550	-31.46	-29.36	-29.07	-30.82	-25.04	-4.03
	13	3.590 to 3.591	-30.04	-29.38	-29.53	-29.78	-25.04	-4.34
		3.591 to 3.600	-41.01	-40.90	-40.96	-40.99	-25.04	-15.86
		3.600 to 3.720	-40.80	-40.63	-40.65	-40.66	-37.04	-3.59
		3.530 to 3.540	-46.88	-46.68	-46.70	-46.90	-37.04	-9.64
		3.540 to 3.549	-41.37	-42.11	-41.36	-42.38	-25.04	-16.32
	14	3.549 to 3.550	-29.37	-31.45	-29.61	-30.08	-25.04	-4.33
		3.590 to 3.591	-30.30	-30.35	-30.41	-28.53	-25.04	-3.49
		3.591 to 3.600	-40.60	-40.62	-40.48	-40.53	-25.04	-15.44
		3.600 to 3.720	-40.59	-40.37	-40.51	-40.31	-37.04	-3.27
		3.530 to 3.540	-46.42	-46.41	-46.53	-46.32	-37.04	-9.28
	15	3.540 to 3.549	-41.74	-41.77	-42.15	-42.50	-25.04	-16.70
		3.549 to 3.550	-30.15	-30.92	-30.53	-31.60	-25.04	-5.11
		3.590 to 3.591	-30.35	-30.24	-29.92	-30.08	-25.04	-4.88
		3.591 to 3.600	-40.66	-40.41	-40.84	-41.13	-25.04	-15.37
		3.600 to 3.720	-40.61	-40.42	-40.30	-40.17	-37.04	-3.13
Mid	0	3.530 to 3.540	-45.88	-46.17	-46.21	-46.34	-37.04	-8.84
		3.540 to 3.549	-42.85	-42.56	-42.99	-42.43	-25.04	-17.39
		3.549 to 3.550	-31.33	-31.57	-30.64	-29.98	-25.04	-4.94
		3.590 to 3.591	-29.15	-29.95	-30.32	-29.80	-25.04	-4.11
		3.591 to 3.600	-41.63	-41.77	-41.55	-42.16	-25.04	-16.51
	1	3.600 to 3.720	-41.62	-41.73	-41.98	-41.98	-37.04	-4.58
		3.530 to 3.595	-40.75	-40.78	-40.33	-40.41	-37.04	-3.29
		3.595 to 3.604	-38.88	-38.94	-38.87	-39.19	-25.04	-13.83
		3.604 to 3.605	-30.06	-30.30	-27.57	-29.95	-25.04	-2.53
		3.645 to 3.646	-29.46	-30.95	-31.18	-30.54	-25.04	-4.42
	2	3.646 to 3.655	-39.73	-40.16	-40.08	-40.22	-25.04	-14.69
		3.655 to 3.720	-40.69	-40.79	-40.76	-40.73	-37.04	-3.65
		3.530 to 3.595	-41.31	-41.87	-41.20	-41.53	-37.04	-4.16
		3.595 to 3.604	-40.04	-39.87	-39.31	-40.21	-25.04	-14.27
		3.604 to 3.605	-30.45	-30.41	-29.01	-30.32	-25.04	-3.97
	3	3.645 to 3.646	-29.61	-29.46	-29.60	-30.02	-25.04	-4.42
		3.646 to 3.655	-40.41	-40.68	-40.28	-40.36	-25.04	-15.24
		3.655 to 3.720	-40.98	-41.11	-41.10	-41.23	-37.04	-3.94
		3.530 to 3.595	-39.89	-40.23	-40.34	-40.11	-37.04	-2.85
		3.595 to 3.604	-38.35	-38.53	-38.55	-38.26	-25.04	-13.22
Mid	2	3.604 to 3.605	-28.67	-29.81	-30.16	-28.83	-25.04	-3.63
		3.645 to 3.646	-29.60	-30.09	-28.74	-28.36	-25.04	-3.32
		3.646 to 3.655	-39.60	-39.54	-39.65	-39.59	-25.04	-14.50
		3.655 to 3.720	-40.26	-40.14	-40.31	-40.25	-37.04	-3.10
		3.530 to 3.595	-41.29	-41.53	-41.49	-41.23	-37.04	-4.19
	3	3.595 to 3.604	-39.43	-39.78	-39.84	-39.52	-25.04	-14.39
		3.604 to 3.605	-30.49	-30.01	-29.67	-29.78	-25.04	-4.63
		3.645 to 3.646	-29.74	-30.32	-30.67	-30.55	-25.04	-4.70
		3.646 to 3.655	-40.34	-40.42	-40.26	-40.11	-25.04	-15.07

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-01904
Page (100) / (223) pages

	4	3.655 to 3.720	-41.02	-41.12	-41.14	-41.09	-37.04	-3.98
		3.530 to 3.595	-40.54	-41.19	-40.73	-40.62	-37.04	-3.50
		3.595 to 3.604	-38.97	-39.28	-39.19	-39.52	-25.04	-13.93
		3.604 to 3.605	-30.53	-29.62	-29.00	-30.40	-25.04	-3.96
		3.645 to 3.646	-29.37	-29.41	-28.49	-31.12	-25.04	-3.45
		3.646 to 3.655	-40.17	-40.11	-40.21	-40.51	-25.04	-15.07
	5	3.655 to 3.720	-40.90	-41.17	-40.97	-41.19	-37.04	-3.86
		3.530 to 3.595	-41.12	-40.78	-41.27	-41.31	-37.04	-3.74
		3.595 to 3.604	-39.40	-39.17	-39.20	-39.69	-25.04	-14.13
		3.604 to 3.605	-29.40	-30.29	-29.31	-30.18	-25.04	-4.27
		3.645 to 3.646	-29.33	-30.64	-30.78	-30.74	-25.04	-4.29
		3.646 to 3.655	-40.33	-40.37	-40.25	-40.30	-25.04	-15.21
	6	3.655 to 3.720	-41.12	-41.13	-40.97	-41.12	-37.04	-3.93
		3.530 to 3.595	-40.36	-40.61	-40.11	-40.23	-37.04	-3.07
		3.595 to 3.604	-38.88	-38.82	-38.83	-39.17	-25.04	-13.78
		3.604 to 3.605	-29.72	-28.79	-29.15	-30.05	-25.04	-3.75
		3.645 to 3.646	-28.98	-29.18	-28.89	-31.16	-25.04	-3.85
		3.646 to 3.655	-39.73	-39.73	-39.90	-40.00	-25.04	-14.69
	7	3.655 to 3.720	-40.54	-40.66	-40.58	-40.65	-37.04	-3.50
		3.530 to 3.595	-41.43	-41.18	-40.79	-40.85	-37.04	-3.75
		3.595 to 3.604	-38.90	-39.22	-38.75	-39.29	-25.04	-13.71
		3.604 to 3.605	-27.70	-30.85	-29.67	-28.21	-25.04	-2.66
		3.645 to 3.646	-29.13	-29.52	-29.20	-29.73	-25.04	-4.09
		3.646 to 3.655	-39.89	-40.12	-39.81	-40.11	-25.04	-14.77
	8	3.655 to 3.720	-40.68	-40.81	-40.61	-40.67	-37.04	-3.57
		3.530 to 3.595	-40.16	-40.25	-39.93	-40.10	-37.04	-2.89
		3.595 to 3.604	-38.42	-38.46	-38.21	-38.44	-25.04	-13.17
		3.604 to 3.605	-30.14	-29.06	-27.88	-29.52	-25.04	-2.84
		3.645 to 3.646	-29.09	-28.94	-28.48	-30.36	-25.04	-3.44
		3.646 to 3.655	-39.58	-39.24	-39.56	-39.74	-25.04	-14.20
	9	3.655 to 3.720	-40.05	-40.26	-40.24	-40.16	-37.04	-3.01
		3.530 to 3.595	-41.31	-41.64	-41.55	-41.32	-37.04	-4.27
		3.595 to 3.604	-40.21	-39.72	-39.30	-39.74	-25.04	-14.26
		3.604 to 3.605	-29.36	-30.51	-30.19	-30.77	-25.04	-4.32
		3.645 to 3.646	-30.14	-28.82	-29.76	-30.31	-25.04	-3.78
		3.646 to 3.655	-40.34	-40.62	-40.43	-40.93	-25.04	-15.30
	10	3.655 to 3.720	-41.45	-41.50	-41.30	-41.35	-37.04	-4.26
		3.530 to 3.595	-40.40	-40.38	-40.14	-40.43	-37.04	-3.10
		3.595 to 3.604	-38.60	-38.41	-38.76	-38.80	-25.04	-13.37
		3.604 to 3.605	-29.57	-29.68	-30.15	-29.76	-25.04	-4.53
		3.645 to 3.646	-28.76	-28.18	-29.68	-28.87	-25.04	-3.14
		3.646 to 3.655	-39.88	-39.93	-39.69	-39.92	-25.04	-14.65
	11	3.655 to 3.720	-40.49	-40.31	-40.52	-40.53	-37.04	-3.27
		3.530 to 3.595	-40.67	-40.62	-40.39	-40.92	-37.04	-3.35
		3.595 to 3.604	-39.23	-39.00	-38.77	-38.66	-25.04	-13.62
		3.604 to 3.605	-30.04	-30.58	-30.65	-30.86	-25.04	-5.00
		3.645 to 3.646	-30.37	-29.38	-30.66	-30.98	-25.04	-4.34
		3.646 to 3.655	-39.97	-40.16	-40.11	-40.20	-25.04	-14.93
	12	3.655 to 3.720	-40.79	-40.85	-40.74	-40.98	-37.04	-3.70
		3.530 to 3.595	-41.16	-41.30	-41.24	-41.24	-37.04	-4.12
		3.595 to 3.604	-39.46	-39.29	-39.15	-38.94	-25.04	-13.90
		3.604 to 3.605	-30.34	-31.42	-30.66	-29.69	-25.04	-4.65
		3.645 to 3.646	-29.79	-29.73	-29.79	-28.04	-25.04	-3.00
		3.646 to 3.655	-40.22	-40.53	-40.37	-40.47	-25.04	-15.18
	13	3.655 to 3.720	-41.17	-41.20	-41.00	-40.97	-37.04	-3.93
		3.530 to 3.595	-41.01	-40.60	-40.90	-40.43	-37.04	-3.39
		3.595 to 3.604	-39.02	-39.22	-38.77	-39.09	-25.04	-13.73
		3.604 to 3.605	-30.39	-30.39	-29.92	-28.37	-25.04	-3.33
		3.645 to 3.646	-30.07	-29.87	-30.29	-29.50	-25.04	-4.46
		3.646 to 3.655	-40.25	-40.47	-40.09	-40.26	-25.04	-15.05
		3.655 to 3.720	-40.91	-41.18	-40.98	-40.91	-37.04	-3.87

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-01904
Page (101) / (223) pages

	14	3.530 to 3.595	-41.35	-41.12	-40.96	-40.99	-37.04	-3.92
		3.595 to 3.604	-39.13	-39.51	-39.15	-39.35	-25.04	-14.09
		3.604 to 3.605	-29.56	-29.74	-29.38	-30.50	-25.04	-4.34
		3.645 to 3.646	-29.16	-29.23	-30.17	-30.32	-25.04	-4.12
		3.646 to 3.655	-40.13	-40.22	-40.14	-40.13	-25.04	-15.09
	15	3.655 to 3.720	-40.79	-40.90	-40.79	-40.77	-37.04	-3.73
		3.530 to 3.595	-42.33	-41.87	-42.18	-41.88	-37.04	-4.83
		3.595 to 3.604	-40.39	-40.65	-39.99	-40.51	-25.04	-14.95
		3.604 to 3.605	-28.72	-30.48	-29.40	-29.56	-25.04	-3.68
		3.645 to 3.646	-30.13	-28.24	-30.19	-30.08	-25.04	-3.20
High	0	3.646 to 3.655	-41.00	-41.45	-40.89	-41.16	-25.04	-15.85
		3.655 to 3.720	-42.04	-42.21	-41.95	-42.29	-37.04	-4.91
		3.530 to 3.650	-40.41	-40.37	-40.19	-40.40	-37.04	-3.15
		3.650 to 3.659	-40.01	-40.36	-39.96	-40.21	-25.04	-14.92
		3.659 to 3.660	-31.34	-31.32	-30.67	-31.17	-25.04	-5.63
	1	3.700 to 3.701	-30.86	-29.94	-30.43	-29.43	-25.04	-4.39
		3.701 to 3.710	-40.65	-40.70	-40.88	-40.96	-25.04	-15.61
		3.710 to 3.720	-40.71	-40.86	-40.95	-40.96	-37.04	-3.67
		3.530 to 3.650	-41.37	-41.35	-41.06	-41.26	-37.04	-4.02
		3.650 to 3.659	-40.39	-40.32	-40.65	-39.79	-25.04	-14.75
	2	3.659 to 3.660	-30.72	-30.19	-29.32	-31.22	-25.04	-4.28
		3.700 to 3.701	-29.64	-30.41	-29.61	-29.70	-25.04	-4.57
		3.701 to 3.710	-41.05	-40.98	-41.14	-40.99	-25.04	-15.94
		3.710 to 3.720	-41.34	-41.28	-41.35	-41.30	-37.04	-4.24
		3.530 to 3.650	-39.68	-40.29	-39.80	-40.01	-37.04	-2.64
	3	3.650 to 3.659	-39.68	-39.28	-39.62	-39.78	-25.04	-14.24
		3.659 to 3.660	-29.34	-30.58	-28.67	-30.31	-25.04	-3.63
		3.700 to 3.701	-30.58	-29.26	-27.45	-29.94	-25.04	-2.41
		3.701 to 3.710	-39.99	-40.40	-40.26	-40.30	-25.04	-14.95
		3.710 to 3.720	-40.52	-40.48	-40.35	-40.35	-37.04	-3.31
	4	3.530 to 3.650	-40.85	-41.19	-41.05	-40.97	-37.04	-3.81
		3.650 to 3.659	-40.31	-40.57	-40.51	-40.47	-25.04	-15.27
		3.659 to 3.660	-28.97	-28.88	-29.64	-31.17	-25.04	-3.84
		3.700 to 3.701	-29.74	-31.10	-32.25	-30.80	-25.04	-4.70
		3.701 to 3.710	-40.67	-41.10	-40.75	-41.10	-25.04	-15.63
	5	3.710 to 3.720	-41.41	-41.41	-41.39	-41.29	-37.04	-4.25
		3.530 to 3.650	-40.23	-41.29	-40.66	-40.48	-37.04	-3.19
		3.650 to 3.659	-40.11	-40.37	-40.06	-40.36	-25.04	-15.02
		3.659 to 3.660	-29.55	-30.19	-29.11	-28.93	-25.04	-3.89
		3.700 to 3.701	-31.35	-30.40	-31.91	-30.43	-25.04	-5.36
	6	3.701 to 3.710	-40.86	-41.19	-41.05	-41.17	-25.04	-15.82
		3.710 to 3.720	-41.09	-41.82	-41.18	-41.53	-37.04	-4.05
		3.530 to 3.650	-40.94	-41.38	-40.99	-41.06	-37.04	-3.90
		3.650 to 3.659	-40.48	-40.91	-39.89	-40.65	-25.04	-14.85
		3.659 to 3.660	-30.09	-29.66	-30.05	-30.34	-25.04	-4.62
	7	3.700 to 3.701	-30.26	-30.32	-30.20	-29.75	-25.04	-4.71
		3.701 to 3.710	-41.01	-41.44	-40.79	-41.08	-25.04	-15.75
		3.710 to 3.720	-41.30	-42.01	-40.93	-41.09	-37.04	-3.89
		3.530 to 3.650	-40.27	-41.17	-40.29	-40.55	-37.04	-3.23
		3.650 to 3.659	-39.75	-40.77	-39.55	-40.06	-25.04	-14.51
	8	3.659 to 3.660	-28.75	-29.68	-30.40	-29.81	-25.04	-3.71
		3.700 to 3.701	-28.59	-28.37	-29.46	-29.29	-25.04	-3.33
		3.701 to 3.710	-40.50	-41.27	-40.38	-40.93	-25.04	-15.34
		3.710 to 3.720	-40.94	-41.71	-40.71	-40.93	-37.04	-3.67
		3.530 to 3.650	-40.73	-41.33	-40.76	-40.80	-37.04	-3.69
		3.650 to 3.659	-39.73	-40.48	-39.93	-40.16	-25.04	-14.69
		3.659 to 3.660	-29.74	-30.67	-30.75	-30.86	-25.04	-4.70
		3.700 to 3.701	-30.94	-30.29	-30.00	-29.06	-25.04	-4.02
		3.701 to 3.710	-40.53	-41.19	-40.37	-40.83	-25.04	-15.33
		3.710 to 3.720	-40.74	-41.62	-40.71	-40.95	-37.04	-3.67
		3.530 to 3.650	-39.78	-40.65	-39.92	-40.00	-37.04	-2.74

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-01904
Page (102) / (223) pages

		3.650 to 3.659	-39.60	-40.32	-39.10	-39.80	-25.04	-14.06
		3.659 to 3.660	-29.94	-29.39	-29.55	-29.02	-25.04	-3.98
		3.700 to 3.701	-30.02	-28.75	-30.04	-30.98	-25.04	-3.71
		3.701 to 3.710	-40.42	-41.16	-40.24	-40.31	-25.04	-15.20
9		3.710 to 3.720	-40.58	-41.38	-40.46	-40.33	-37.04	-3.29
		3.530 to 3.650	-41.18	-42.39	-41.27	-41.36	-37.04	-4.14
		3.650 to 3.659	-40.42	-41.61	-40.52	-40.89	-25.04	-15.38
		3.659 to 3.660	-31.07	-30.33	-30.35	-29.86	-25.04	-4.82
		3.700 to 3.701	-29.20	-29.20	-29.29	-29.76	-25.04	-4.16
		3.701 to 3.710	-41.15	-42.04	-41.47	-41.61	-25.04	-16.11
10		3.710 to 3.720	-41.52	-42.85	-41.75	-41.83	-37.04	-4.48
		3.530 to 3.650	-40.05	-41.24	-39.98	-39.69	-37.04	-2.65
		3.650 to 3.659	-40.02	-40.43	-39.68	-40.01	-25.04	-14.64
		3.659 to 3.660	-30.72	-30.18	-29.20	-29.44	-25.04	-4.16
		3.700 to 3.701	-30.15	-30.26	-29.64	-30.95	-25.04	-4.60
		3.701 to 3.710	-40.55	-41.21	-40.47	-40.31	-25.04	-15.27
11		3.710 to 3.720	-40.73	-41.74	-40.65	-40.80	-37.04	-3.61
		3.530 to 3.650	-40.55	-41.56	-40.52	-40.53	-37.04	-3.48
		3.650 to 3.659	-40.01	-41.27	-40.21	-40.35	-25.04	-14.97
		3.659 to 3.660	-30.10	-31.26	-30.29	-30.80	-25.04	-5.06
		3.700 to 3.701	-30.55	-29.87	-30.54	-31.07	-25.04	-4.83
		3.701 to 3.710	-40.84	-41.73	-40.80	-41.07	-25.04	-15.76
12		3.710 to 3.720	-40.95	-42.10	-41.05	-41.04	-37.04	-3.91
		3.530 to 3.650	-41.28	-42.67	-41.03	-40.94	-37.04	-3.90
		3.650 to 3.659	-40.53	-42.14	-40.40	-40.73	-25.04	-15.36
		3.659 to 3.660	-29.13	-29.47	-30.79	-30.51	-25.04	-4.09
		3.700 to 3.701	-31.05	-30.45	-30.41	-30.94	-25.04	-5.37
		3.701 to 3.710	-41.05	-42.63	-41.11	-41.08	-25.04	-16.01
13		3.710 to 3.720	-41.11	-43.16	-41.00	-41.22	-37.04	-3.96
		3.530 to 3.650	-40.61	-41.83	-40.77	-40.52	-37.04	-3.48
		3.650 to 3.659	-40.37	-41.32	-40.07	-40.37	-25.04	-15.03
		3.659 to 3.660	-30.16	-30.51	-30.02	-28.57	-25.04	-3.53
		3.700 to 3.701	-31.46	-30.39	-28.44	-29.64	-25.04	-3.40
		3.701 to 3.710	-40.86	-41.75	-40.72	-41.15	-25.04	-15.68
14		3.710 to 3.720	-40.70	-42.21	-40.91	-41.30	-37.04	-3.66
		3.530 to 3.650	-40.98	-42.74	-40.54	-40.64	-37.04	-3.50
		3.650 to 3.659	-40.25	-41.75	-40.33	-40.51	-25.04	-15.21
		3.659 to 3.660	-30.34	-29.46	-30.52	-30.71	-25.04	-4.42
		3.700 to 3.701	-28.90	-28.66	-30.25	-31.80	-25.04	-3.62
		3.701 to 3.710	-40.50	-42.27	-40.78	-41.01	-25.04	-15.46
15		3.710 to 3.720	-40.84	-42.98	-41.09	-41.15	-37.04	-3.80
		3.530 to 3.650	-41.67	-43.83	-42.04	-41.95	-37.04	-4.63
		3.650 to 3.659	-41.01	-42.65	-41.05	-41.60	-25.04	-15.97
		3.659 to 3.660	-29.88	-28.71	-30.66	-28.89	-25.04	-3.67
		3.700 to 3.701	-30.70	-30.37	-29.67	-30.58	-25.04	-4.63
		3.701 to 3.710	-42.02	-43.26	-41.98	-42.16	-25.04	-16.94
		3.710 to 3.720	-42.03	-44.59	-42.20	-42.48	-37.04	-4.99

Table 8-37. Channel Edge Emission Summary Data (n48_1C_40M)

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-01904
Page (103) / (223) pages

Ch.	Port	Measured Range (GHz)	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	3.530 to 3.540	-45.37	-45.34	-45.17	-45.27	-37.04	-8.13
		3.540 to 3.549	-40.72	-40.85	-40.11	-40.73	-25.04	-15.07
		3.549 to 3.550	-38.20	-39.24	-38.76	-38.48	-25.04	-13.16
		3.600 to 3.601	-41.45	-41.21	-41.30	-41.38	-25.04	-16.17
		3.601 to 3.610	-39.99	-39.85	-39.70	-39.81	-25.04	-14.66
		3.610 to 3.720	-40.46	-40.52	-40.09	-40.31	-37.04	-3.05
	1	3.530 to 3.540	-45.88	-46.12	-45.85	-46.05	-37.04	-8.81
		3.540 to 3.549	-42.09	-42.06	-41.79	-42.00	-25.04	-16.75
		3.549 to 3.550	-38.30	-39.36	-38.71	-37.81	-25.04	-12.77
		3.600 to 3.601	-41.72	-41.99	-41.52	-41.52	-25.04	-16.48
		3.601 to 3.610	-39.98	-40.32	-40.39	-40.38	-25.04	-14.94
		3.610 to 3.720	-41.08	-41.12	-40.90	-40.86	-37.04	-3.82
	2	3.530 to 3.540	-44.98	-45.09	-44.91	-44.36	-37.04	-7.32
		3.540 to 3.549	-41.50	-41.27	-40.52	-40.64	-25.04	-15.48
		3.549 to 3.550	-38.17	-39.08	-38.14	-37.23	-25.04	-12.19
		3.600 to 3.601	-40.94	-40.99	-40.70	-40.50	-25.04	-15.46
		3.601 to 3.610	-39.30	-39.26	-39.19	-39.21	-25.04	-14.15
		3.610 to 3.720	-39.97	-39.93	-39.74	-39.79	-37.04	-2.70
	3	3.530 to 3.540	-45.78	-46.19	-46.03	-46.13	-37.04	-8.74
		3.540 to 3.549	-41.78	-41.78	-41.84	-41.50	-25.04	-16.46
		3.549 to 3.550	-39.06	-38.37	-38.93	-38.37	-25.04	-13.33
		3.600 to 3.601	-41.52	-41.39	-41.34	-41.32	-25.04	-16.28
		3.601 to 3.610	-39.98	-40.21	-40.00	-40.01	-25.04	-14.94
		3.610 to 3.720	-40.65	-40.64	-40.50	-40.65	-37.04	-3.46
	4	3.530 to 3.540	-45.47	-44.78	-45.49	-44.96	-37.04	-7.74
		3.540 to 3.549	-41.73	-40.70	-40.84	-40.95	-25.04	-15.66
		3.549 to 3.550	-37.16	-38.58	-38.16	-37.57	-25.04	-12.12
		3.600 to 3.601	-40.91	-40.95	-40.48	-41.16	-25.04	-15.44
		3.601 to 3.610	-39.65	-39.17	-39.39	-39.80	-25.04	-14.13
		3.610 to 3.720	-40.61	-40.52	-40.37	-40.71	-37.04	-3.33
	5	3.530 to 3.540	-46.90	-46.74	-46.80	-46.97	-37.04	-9.70
		3.540 to 3.549	-42.31	-42.08	-42.41	-41.81	-25.04	-16.77
		3.549 to 3.550	-39.00	-38.65	-38.49	-39.54	-25.04	-13.45
		3.600 to 3.601	-41.76	-41.59	-41.13	-41.53	-25.04	-16.09
		3.601 to 3.610	-40.24	-40.19	-39.86	-39.83	-25.04	-14.79
		3.610 to 3.720	-40.94	-40.93	-40.79	-40.78	-37.04	-3.74
	6	3.530 to 3.540	-45.34	-45.20	-45.20	-45.02	-37.04	-7.98
		3.540 to 3.549	-41.06	-41.00	-40.27	-41.31	-25.04	-15.23
		3.549 to 3.550	-37.75	-38.38	-38.31	-37.27	-25.04	-12.23
		3.600 to 3.601	-41.07	-40.80	-40.92	-41.18	-25.04	-15.76
		3.601 to 3.610	-39.73	-39.09	-39.22	-39.35	-25.04	-14.05
		3.610 to 3.720	-40.37	-40.12	-40.15	-40.33	-37.04	-3.08
	7	3.530 to 3.540	-45.80	-45.64	-45.61	-45.40	-37.04	-8.36
		3.540 to 3.549	-40.66	-41.95	-41.62	-41.09	-25.04	-15.62
		3.549 to 3.550	-37.64	-37.01	-38.39	-37.77	-25.04	-11.97
		3.600 to 3.601	-41.09	-41.31	-40.95	-41.34	-25.04	-15.91
		3.601 to 3.610	-39.83	-39.73	-39.58	-39.79	-25.04	-14.54
		3.610 to 3.720	-40.48	-40.87	-40.28	-40.61	-37.04	-3.24
	8	3.530 to 3.540	-44.61	-45.20	-44.93	-44.52	-37.04	-7.48
		3.540 to 3.549	-40.55	-41.00	-41.27	-40.77	-25.04	-15.51
		3.549 to 3.550	-38.59	-37.35	-37.47	-38.41	-25.04	-12.31
		3.600 to 3.601	-40.72	-40.53	-40.63	-40.73	-25.04	-15.49
		3.601 to 3.610	-39.47	-39.32	-39.18	-39.07	-25.04	-14.03
		3.610 to 3.720	-39.85	-40.01	-39.71	-39.79	-37.04	-2.67
	9	3.530 to 3.540	-46.27	-46.05	-45.97	-45.77	-37.04	-8.73
		3.540 to 3.549	-42.46	-41.45	-42.03	-42.53	-25.04	-16.41
		3.549 to 3.550	-39.52	-38.52	-39.14	-38.21	-25.04	-13.17
		3.600 to 3.601	-41.65	-41.30	-41.73	-41.72	-25.04	-16.26

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-01904
Page (104) / (223) pages

Mid	10	3.601 to 3.610	-40.46	-40.08	-40.28	-40.14	-25.04	-15.04
		3.610 to 3.720	-41.19	-41.24	-41.21	-41.13	-37.04	-4.09
		3.530 to 3.540	-43.38	-43.58	-43.36	-43.13	-37.04	-6.09
		3.540 to 3.549	-40.77	-40.56	-40.51	-40.28	-25.04	-15.24
		3.549 to 3.550	-37.88	-38.35	-38.51	-39.16	-25.04	-12.84
		3.600 to 3.601	-41.13	-40.97	-40.75	-40.74	-25.04	-15.70
		3.601 to 3.610	-39.35	-39.41	-39.39	-39.30	-25.04	-14.26
	11	3.610 to 3.720	-40.05	-40.07	-39.78	-40.04	-37.04	-2.74
		3.530 to 3.540	-45.06	-44.92	-45.07	-44.87	-37.04	-7.83
		3.540 to 3.549	-41.41	-40.53	-41.63	-41.76	-25.04	-15.49
		3.549 to 3.550	-38.33	-38.64	-38.67	-38.09	-25.04	-13.05
		3.600 to 3.601	-40.93	-40.88	-41.18	-41.13	-25.04	-15.84
	12	3.601 to 3.610	-39.83	-39.79	-39.64	-39.64	-25.04	-14.60
		3.610 to 3.720	-40.29	-40.46	-40.58	-40.36	-37.04	-3.25
		3.530 to 3.540	-46.52	-46.37	-46.45	-45.96	-37.04	-8.92
		3.540 to 3.549	-41.56	-42.04	-41.90	-41.43	-25.04	-16.39
		3.549 to 3.550	-38.82	-39.60	-38.67	-38.00	-25.04	-12.96
	13	3.600 to 3.601	-41.46	-41.70	-41.37	-41.69	-25.04	-16.33
		3.601 to 3.610	-40.20	-39.89	-40.05	-40.25	-25.04	-14.85
		3.610 to 3.720	-40.69	-40.83	-40.97	-40.82	-37.04	-3.65
		3.530 to 3.540	-45.56	-45.31	-45.88	-45.54	-37.04	-8.27
		3.540 to 3.549	-41.18	-41.29	-41.49	-41.38	-25.04	-16.14
	14	3.549 to 3.550	-37.72	-38.09	-38.45	-37.87	-25.04	-12.68
		3.600 to 3.601	-41.10	-41.17	-41.33	-41.22	-25.04	-16.06
		3.601 to 3.610	-39.78	-39.62	-39.60	-39.97	-25.04	-14.56
		3.610 to 3.720	-40.27	-40.43	-40.42	-40.25	-37.04	-3.21
		3.530 to 3.540	-45.36	-44.90	-45.00	-45.30	-37.04	-7.86
	15	3.540 to 3.549	-41.24	-41.50	-41.78	-41.99	-25.04	-16.20
		3.549 to 3.550	-38.53	-38.26	-38.19	-37.76	-25.04	-12.72
		3.600 to 3.601	-41.11	-40.87	-40.88	-41.56	-25.04	-15.83
		3.601 to 3.610	-39.93	-39.75	-39.51	-40.02	-25.04	-14.47
		3.610 to 3.720	-40.64	-40.74	-40.25	-40.63	-37.04	-3.21
Mid	0	3.530 to 3.540	-45.38	-45.58	-45.47	-45.47	-37.04	-8.34
		3.540 to 3.549	-42.46	-42.19	-41.45	-42.92	-25.04	-16.41
		3.549 to 3.550	-37.66	-38.40	-38.49	-38.30	-25.04	-12.62
		3.600 to 3.601	-42.27	-42.15	-42.23	-42.55	-25.04	-17.11
		3.601 to 3.610	-41.00	-40.67	-40.94	-40.89	-25.04	-15.63
	1	3.610 to 3.720	-41.85	-41.67	-41.87	-41.86	-37.04	-4.63
		3.530 to 3.590	-40.88	-40.91	-40.80	-40.99	-37.04	-3.76
		3.590 to 3.599	-40.06	-40.11	-40.46	-39.78	-25.04	-14.74
		3.599 to 3.600	-37.22	-37.93	-37.30	-37.68	-25.04	-12.18
		3.650 to 3.651	-41.58	-41.68	-41.50	-41.35	-25.04	-16.31
	2	3.651 to 3.660	-40.13	-40.50	-40.06	-40.23	-25.04	-15.02
		3.660 to 3.720	-40.80	-41.13	-40.88	-40.97	-37.04	-3.76
		3.530 to 3.590	-41.64	-41.76	-41.59	-41.64	-37.04	-4.55
		3.590 to 3.599	-40.90	-41.08	-40.52	-40.42	-25.04	-15.38
		3.599 to 3.600	-38.12	-37.61	-37.75	-37.93	-25.04	-12.57
	3	3.650 to 3.651	-41.87	-41.79	-41.86	-41.93	-25.04	-16.75
		3.651 to 3.660	-40.63	-40.74	-40.57	-40.58	-25.04	-15.53
		3.660 to 3.720	-41.40	-41.49	-41.28	-41.28	-37.04	-4.24
		3.530 to 3.590	-40.51	-40.61	-40.67	-40.71	-37.04	-3.47
		3.590 to 3.599	-39.41	-39.85	-39.69	-39.20	-25.04	-14.16
Mid	0	3.599 to 3.600	-37.02	-37.00	-37.50	-37.22	-25.04	-11.96
		3.650 to 3.651	-41.37	-40.98	-41.24	-41.12	-25.04	-15.94
		3.651 to 3.660	-39.97	-40.05	-39.89	-39.79	-25.04	-14.75
		3.660 to 3.720	-40.47	-40.64	-40.33	-40.52	-37.04	-3.29
		3.530 to 3.590	-41.33	-41.03	-41.20	-41.28	-37.04	-3.99
	1	3.590 to 3.599	-40.65	-39.63	-40.68	-40.60	-25.04	-14.59
		3.599 to 3.600	-38.65	-37.68	-37.93	-37.65	-25.04	-12.61
		3.650 to 3.651	-41.74	-42.05	-41.73	-41.80	-25.04	-16.69
		3.651 to 3.660	-40.60	-40.56	-40.62	-40.60	-25.04	-15.52

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-01904
Page (105) / (223) pages

	4	3.660 to 3.720	-41.13	-41.46	-41.18	-41.24	-37.04	-4.09
		3.530 to 3.590	-41.11	-41.22	-41.31	-41.28	-37.04	-4.07
		3.590 to 3.599	-40.34	-40.32	-39.95	-40.49	-25.04	-14.91
		3.599 to 3.600	-37.96	-37.78	-37.95	-37.48	-25.04	-12.44
		3.650 to 3.651	-41.30	-41.70	-41.68	-41.30	-25.04	-16.26
		3.651 to 3.660	-40.36	-40.20	-40.29	-40.24	-25.04	-15.16
	5	3.660 to 3.720	-40.68	-41.11	-40.94	-41.04	-37.04	-3.64
		3.530 to 3.590	-41.39	-41.29	-41.44	-41.49	-37.04	-4.25
		3.590 to 3.599	-40.55	-39.95	-40.49	-39.74	-25.04	-14.70
		3.599 to 3.600	-37.67	-37.50	-39.18	-37.86	-25.04	-12.46
		3.650 to 3.651	-41.64	-41.91	-41.73	-41.92	-25.04	-16.60
		3.651 to 3.660	-40.44	-40.45	-40.53	-40.66	-25.04	-15.40
	6	3.660 to 3.720	-41.12	-41.24	-41.20	-41.14	-37.04	-4.08
		3.530 to 3.590	-40.56	-40.72	-40.73	-40.77	-37.04	-3.52
		3.590 to 3.599	-39.27	-39.76	-40.35	-40.15	-25.04	-14.23
		3.599 to 3.600	-37.16	-38.79	-36.98	-37.46	-25.04	-11.94
		3.650 to 3.651	-41.00	-41.25	-40.77	-41.44	-25.04	-15.73
		3.651 to 3.660	-39.79	-40.11	-39.91	-39.64	-25.04	-14.60
	7	3.660 to 3.720	-40.57	-40.94	-40.58	-40.60	-37.04	-3.53
		3.530 to 3.590	-41.00	-40.65	-41.01	-41.08	-37.04	-3.61
		3.590 to 3.599	-40.33	-40.17	-40.44	-40.56	-25.04	-15.13
		3.599 to 3.600	-37.09	-37.34	-37.41	-37.51	-25.04	-12.05
		3.650 to 3.651	-41.55	-41.18	-41.42	-41.42	-25.04	-16.14
		3.651 to 3.660	-40.03	-39.98	-40.13	-40.36	-25.04	-14.94
	8	3.660 to 3.720	-40.70	-40.82	-41.01	-40.81	-37.04	-3.66
		3.530 to 3.590	-40.40	-40.32	-40.50	-40.34	-37.04	-3.28
		3.590 to 3.599	-38.80	-39.73	-39.96	-39.06	-25.04	-13.76
		3.599 to 3.600	-37.25	-36.82	-37.06	-37.51	-25.04	-11.78
		3.650 to 3.651	-41.11	-41.11	-41.05	-41.31	-25.04	-16.01
		3.651 to 3.660	-39.69	-39.94	-39.77	-40.01	-25.04	-14.65
	9	3.660 to 3.720	-40.48	-40.59	-40.34	-40.49	-37.04	-3.30
		3.530 to 3.590	-41.62	-41.56	-41.61	-41.38	-37.04	-4.34
		3.590 to 3.599	-41.11	-40.18	-41.19	-40.30	-25.04	-15.14
		3.599 to 3.600	-37.84	-37.46	-38.09	-37.79	-25.04	-12.42
		3.650 to 3.651	-41.82	-42.05	-41.87	-41.68	-25.04	-16.64
		3.651 to 3.660	-40.82	-40.90	-40.53	-40.83	-25.04	-15.49
	10	3.660 to 3.720	-41.55	-41.74	-41.33	-41.66	-37.04	-4.29
		3.530 to 3.590	-40.47	-40.22	-40.55	-40.46	-37.04	-3.18
		3.590 to 3.599	-39.74	-39.17	-39.54	-39.69	-25.04	-14.13
		3.599 to 3.600	-37.30	-37.37	-37.91	-36.90	-25.04	-11.86
		3.650 to 3.651	-41.41	-41.40	-40.67	-41.43	-25.04	-15.63
		3.651 to 3.660	-39.94	-40.15	-40.01	-40.20	-25.04	-14.90
	11	3.660 to 3.720	-40.38	-40.78	-40.57	-40.63	-37.04	-3.34
		3.530 to 3.590	-40.63	-40.63	-40.83	-40.76	-37.04	-3.59
		3.590 to 3.599	-40.30	-40.19	-39.83	-40.15	-25.04	-14.79
		3.599 to 3.600	-37.20	-38.17	-37.90	-37.49	-25.04	-12.16
		3.650 to 3.651	-41.37	-41.82	-41.30	-41.57	-25.04	-16.26
		3.651 to 3.660	-40.02	-40.44	-40.23	-40.22	-25.04	-14.98
	12	3.660 to 3.720	-40.59	-41.32	-40.84	-40.77	-37.04	-3.55
		3.530 to 3.590	-41.62	-41.29	-41.48	-41.40	-37.04	-4.25
		3.590 to 3.599	-40.88	-40.38	-40.01	-40.18	-25.04	-14.97
		3.599 to 3.600	-37.23	-38.67	-37.93	-37.41	-25.04	-12.19
		3.650 to 3.651	-41.56	-41.81	-41.57	-41.85	-25.04	-16.52
		3.651 to 3.660	-40.45	-40.66	-40.63	-40.55	-25.04	-15.41
	13	3.660 to 3.720	-41.04	-41.45	-41.13	-41.30	-37.04	-4.00
		3.530 to 3.590	-41.03	-40.85	-40.89	-40.56	-37.04	-3.52
		3.590 to 3.599	-40.29	-40.35	-40.39	-39.88	-25.04	-14.84
		3.599 to 3.600	-37.85	-36.93	-37.79	-37.28	-25.04	-11.89
		3.650 to 3.651	-41.74	-41.92	-41.68	-41.53	-25.04	-16.49
		3.651 to 3.660	-40.41	-40.47	-40.27	-40.26	-25.04	-15.22
		3.660 to 3.720	-41.04	-41.27	-41.05	-41.16	-37.04	-4.00

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-01904
Page (106) / (223) pages

	14	3.530 to 3.590	-40.82	-40.90	-41.01	-40.98	-37.04	-3.78
		3.590 to 3.599	-40.76	-40.26	-40.70	-40.07	-25.04	-15.03
3.599 to 3.600		-37.59	-37.64	-37.68	-37.39	-25.04	-12.35	
3.650 to 3.651		-41.75	-41.93	-41.45	-41.59	-25.04	-16.41	
3.651 to 3.660		-40.34	-40.63	-40.17	-40.40	-25.04	-15.13	
3.660 to 3.720		-40.85	-40.88	-40.90	-40.93	-37.04	-3.81	
15	3.530 to 3.590	-42.42	-42.33	-42.31	-42.10	-37.04	-5.06	
	3.590 to 3.599	-41.08	-41.47	-41.55	-41.39	-25.04	-16.04	
	3.599 to 3.600	-38.71	-38.45	-38.61	-37.98	-25.04	-12.94	
	3.650 to 3.651	-42.72	-43.03	-42.70	-42.67	-25.04	-17.63	
	3.651 to 3.660	-41.53	-41.69	-41.59	-41.47	-25.04	-16.43	
	3.660 to 3.720	-42.45	-42.38	-42.17	-42.35	-37.04	-5.13	
High	0	3.530 to 3.640	-40.42	-40.49	-40.39	-40.65	-37.04	-3.35
		3.640 to 3.649	-39.88	-39.92	-39.88	-39.77	-25.04	-14.73
		3.649 to 3.650	-35.88	-35.65	-36.24	-36.14	-25.04	-10.61
		3.700 to 3.701	-40.21	-39.83	-40.13	-39.57	-25.04	-14.53
		3.701 to 3.710	-40.99	-41.04	-40.75	-40.95	-25.04	-15.71
		3.710 to 3.720	-40.99	-40.96	-40.77	-40.96	-37.04	-3.73
	1	3.530 to 3.640	-41.24	-41.31	-41.02	-41.06	-37.04	-3.98
		3.640 to 3.649	-40.31	-40.42	-40.21	-40.05	-25.04	-15.01
		3.649 to 3.650	-36.53	-35.35	-36.31	-37.33	-25.04	-10.31
		3.700 to 3.701	-40.47	-40.66	-40.38	-40.44	-25.04	-15.34
		3.701 to 3.710	-41.34	-41.38	-41.23	-41.11	-25.04	-16.07
		3.710 to 3.720	-41.52	-41.47	-41.50	-41.45	-37.04	-4.41
	2	3.530 to 3.640	-39.90	-40.27	-40.00	-40.23	-37.04	-2.86
		3.640 to 3.649	-39.26	-38.96	-39.28	-39.31	-25.04	-13.92
		3.649 to 3.650	-35.70	-35.00	-34.74	-35.45	-25.04	-9.70
		3.700 to 3.701	-38.91	-39.94	-40.09	-39.48	-25.04	-13.87
		3.701 to 3.710	-40.39	-40.55	-40.30	-40.53	-25.04	-15.26
		3.710 to 3.720	-40.38	-40.77	-40.43	-40.32	-37.04	-3.28
	3	3.530 to 3.640	-40.95	-41.08	-40.88	-41.03	-37.04	-3.84
		3.640 to 3.649	-40.31	-39.53	-39.78	-39.78	-25.04	-14.49
		3.649 to 3.650	-37.08	-35.41	-37.10	-35.12	-25.04	-10.08
		3.700 to 3.701	-39.90	-39.68	-40.23	-39.52	-25.04	-14.48
		3.701 to 3.710	-41.34	-41.21	-41.09	-41.03	-25.04	-15.99
		3.710 to 3.720	-41.21	-41.40	-41.32	-41.11	-37.04	-4.07
	4	3.530 to 3.640	-40.53	-40.76	-40.41	-40.49	-37.04	-3.37
		3.640 to 3.649	-39.96	-39.51	-39.66	-39.61	-25.04	-14.47
		3.649 to 3.650	-36.23	-34.88	-35.62	-36.43	-25.04	-9.84
		3.700 to 3.701	-39.95	-40.52	-39.99	-39.64	-25.04	-14.60
		3.701 to 3.710	-41.03	-41.03	-41.11	-41.14	-25.04	-15.99
		3.710 to 3.720	-41.24	-41.27	-41.15	-41.20	-37.04	-4.11
	5	3.530 to 3.640	-40.78	-40.99	-40.69	-40.94	-37.04	-3.65
		3.640 to 3.649	-39.96	-39.97	-40.02	-39.95	-25.04	-14.91
		3.649 to 3.650	-35.43	-35.78	-35.87	-35.57	-25.04	-10.39
		3.700 to 3.701	-40.45	-40.19	-39.82	-39.82	-25.04	-14.78
		3.701 to 3.710	-41.07	-41.12	-41.25	-41.04	-25.04	-16.00
		3.710 to 3.720	-41.35	-41.17	-41.31	-41.24	-37.04	-4.13
	6	3.530 to 3.640	-40.15	-40.51	-40.28	-40.33	-37.04	-3.11
		3.640 to 3.649	-39.66	-39.34	-39.36	-39.51	-25.04	-14.30
		3.649 to 3.650	-36.48	-35.02	-35.43	-35.53	-25.04	-9.98
		3.700 to 3.701	-39.90	-39.75	-40.35	-40.20	-25.04	-14.71
		3.701 to 3.710	-40.93	-40.62	-40.66	-40.89	-25.04	-15.58
		3.710 to 3.720	-40.99	-40.80	-40.83	-40.81	-37.04	-3.76
	7	3.530 to 3.640	-40.49	-40.80	-40.32	-40.64	-37.04	-3.28
		3.640 to 3.649	-39.95	-39.71	-39.69	-39.90	-25.04	-14.65
		3.649 to 3.650	-35.27	-34.84	-34.79	-34.67	-25.04	-9.63
		3.700 to 3.701	-40.58	-39.02	-39.59	-39.32	-25.04	-13.98
		3.701 to 3.710	-40.89	-40.57	-40.77	-40.66	-25.04	-15.53
		3.710 to 3.720	-40.93	-41.00	-41.01	-40.80	-37.04	-3.76
	8	3.530 to 3.640	-39.82	-39.99	-39.81	-40.07	-37.04	-2.77

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-01904
Page (107) / (223) pages

		3.640 to 3.649	-38.73	-39.21	-39.04	-39.04	-25.04	-13.69
		3.649 to 3.650	-37.53	-36.63	-35.83	-37.28	-25.04	-10.79
		3.700 to 3.701	-39.89	-40.86	-40.15	-39.84	-25.04	-14.80
		3.701 to 3.710	-40.43	-40.62	-40.57	-40.58	-25.04	-15.39
		3.710 to 3.720	-40.75	-40.77	-40.47	-40.63	-37.04	-3.43
	9	3.530 to 3.640	-41.11	-41.23	-40.92	-41.10	-37.04	-3.88
		3.640 to 3.649	-40.27	-40.48	-40.07	-40.60	-25.04	-15.03
		3.649 to 3.650	-35.50	-36.19	-35.29	-35.38	-25.04	-10.25
		3.700 to 3.701	-40.80	-40.49	-40.18	-40.44	-25.04	-15.14
		3.701 to 3.710	-41.67	-41.61	-41.37	-41.53	-25.04	-16.33
		3.710 to 3.720	-41.83	-41.83	-41.70	-41.64	-37.04	-4.60
	10	3.530 to 3.640	-40.14	-40.06	-39.90	-40.21	-37.04	-2.86
		3.640 to 3.649	-39.64	-39.38	-39.37	-39.33	-25.04	-14.29
		3.649 to 3.650	-34.80	-36.41	-35.44	-36.07	-25.04	-9.76
		3.700 to 3.701	-39.45	-39.79	-39.76	-39.73	-25.04	-14.41
		3.701 to 3.710	-40.86	-40.66	-40.61	-40.41	-25.04	-15.37
		3.710 to 3.720	-40.79	-40.85	-40.72	-40.50	-37.04	-3.46
	11	3.530 to 3.640	-40.52	-40.65	-40.14	-40.51	-37.04	-3.10
		3.640 to 3.649	-39.71	-40.06	-39.69	-39.43	-25.04	-14.39
		3.649 to 3.650	-34.92	-34.91	-35.35	-35.22	-25.04	-9.87
		3.700 to 3.701	-39.65	-40.41	-40.82	-39.93	-25.04	-14.61
		3.701 to 3.710	-41.03	-40.94	-40.87	-40.89	-25.04	-15.83
		3.710 to 3.720	-41.14	-41.07	-40.93	-40.98	-37.04	-3.89
	12	3.530 to 3.640	-40.93	-41.05	-40.85	-40.83	-37.04	-3.79
		3.640 to 3.649	-40.38	-40.04	-40.24	-39.97	-25.04	-14.93
		3.649 to 3.650	-35.62	-37.17	-35.45	-36.46	-25.04	-10.41
		3.700 to 3.701	-40.85	-39.86	-40.62	-40.26	-25.04	-14.82
		3.701 to 3.710	-41.23	-41.31	-41.33	-41.00	-25.04	-15.96
		3.710 to 3.720	-41.41	-41.58	-41.45	-41.41	-37.04	-4.37
	13	3.530 to 3.640	-40.63	-40.79	-40.65	-40.62	-37.04	-3.58
		3.640 to 3.649	-39.83	-39.98	-40.10	-40.10	-25.04	-14.79
		3.649 to 3.650	-37.81	-35.29	-35.35	-34.97	-25.04	-9.93
		3.700 to 3.701	-40.47	-39.85	-40.14	-40.25	-25.04	-14.81
		3.701 to 3.710	-41.24	-40.79	-41.06	-41.08	-25.04	-15.75
		3.710 to 3.720	-41.17	-41.22	-41.19	-41.09	-37.04	-4.05
	14	3.530 to 3.640	-40.74	-40.74	-40.51	-40.86	-37.04	-3.47
		3.640 to 3.649	-40.00	-40.08	-40.18	-39.76	-25.04	-14.72
		3.649 to 3.650	-35.17	-37.91	-34.52	-36.27	-25.04	-9.48
		3.700 to 3.701	-40.17	-39.97	-40.74	-40.19	-25.04	-14.93
		3.701 to 3.710	-41.21	-40.89	-41.08	-40.95	-25.04	-15.85
		3.710 to 3.720	-41.29	-40.96	-41.08	-41.02	-37.04	-3.92
	15	3.530 to 3.640	-42.07	-42.30	-41.80	-42.03	-37.04	-4.76
		3.640 to 3.649	-40.84	-41.29	-40.98	-40.73	-25.04	-15.69
		3.649 to 3.650	-35.90	-35.24	-36.34	-36.63	-25.04	-10.20
		3.700 to 3.701	-41.52	-41.76	-41.01	-41.02	-25.04	-15.97
		3.701 to 3.710	-42.44	-42.28	-42.36	-42.23	-25.04	-17.19
		3.710 to 3.720	-42.89	-42.32	-42.62	-42.61	-37.04	-5.28

Table 8-38. Channel Edge Emission Summary Data (n48_2C_20M+30M)

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-01904
Page (108) / (223) pages

Ch.	Port	Measured Range (GHz)	Max. Value (dBm)				Limit (dBm)	Worst Margin (dB)
			QPSK	16QAM	64QAM	256QAM		
Low	0	3.530 to 3.540	-44.67	-44.26	-44.61	-44.63	-37.04	-7.22
		3.540 to 3.549	-41.70	-41.28	-41.45	-41.51	-25.04	-16.24
		3.549 to 3.550	-28.88	-28.29	-29.25	-29.54	-25.04	-3.25
		3.610 to 3.611	-29.84	-30.59	-29.31	-30.22	-25.04	-4.27
		3.611 to 3.620	-39.94	-39.83	-39.66	-39.58	-25.04	-14.54
		3.620 to 3.720	-40.32	-40.32	-40.24	-40.47	-37.04	-3.20
	1	3.530 to 3.540	-45.52	-45.11	-45.57	-45.64	-37.04	-8.07
		3.540 to 3.549	-42.03	-42.19	-42.32	-42.38	-25.04	-16.99
		3.549 to 3.550	-28.74	-29.68	-29.59	-28.13	-25.04	-3.09
		3.610 to 3.611	-29.60	-29.31	-29.51	-29.32	-25.04	-4.27
		3.611 to 3.620	-40.30	-40.25	-40.37	-40.16	-25.04	-15.12
		3.620 to 3.720	-40.81	-40.89	-40.93	-40.76	-37.04	-3.72
	2	3.530 to 3.540	-44.16	-43.96	-44.18	-44.19	-37.04	-6.92
		3.540 to 3.549	-41.01	-41.08	-41.22	-41.40	-25.04	-15.97
		3.549 to 3.550	-28.82	-27.71	-28.64	-28.64	-25.04	-2.67
		3.610 to 3.611	-29.46	-29.62	-29.41	-29.86	-25.04	-4.37
		3.611 to 3.620	-39.30	-39.55	-39.29	-39.10	-25.04	-14.06
		3.620 to 3.720	-39.88	-40.00	-40.09	-39.90	-37.04	-2.84
	3	3.530 to 3.540	-45.18	-45.02	-45.05	-45.48	-37.04	-7.98
		3.540 to 3.549	-41.46	-42.21	-42.52	-41.91	-25.04	-16.42
		3.549 to 3.550	-28.57	-28.39	-29.08	-27.91	-25.04	-2.87
		3.610 to 3.611	-29.30	-29.43	-29.62	-29.07	-25.04	-4.03
		3.611 to 3.620	-40.26	-40.49	-40.17	-39.87	-25.04	-14.83
		3.620 to 3.720	-40.85	-41.05	-40.77	-40.32	-37.04	-3.28
	4	3.530 to 3.540	-44.94	-44.85	-44.99	-44.82	-37.04	-7.78
		3.540 to 3.549	-41.20	-41.55	-41.75	-41.22	-25.04	-16.16
		3.549 to 3.550	-29.14	-28.63	-28.21	-28.80	-25.04	-3.17
		3.610 to 3.611	-29.35	-29.71	-29.83	-29.86	-25.04	-4.31
		3.611 to 3.620	-39.90	-40.14	-39.82	-39.72	-25.04	-14.68
		3.620 to 3.720	-40.61	-40.70	-40.76	-40.28	-37.04	-3.24
	5	3.530 to 3.540	-45.76	-45.66	-45.74	-45.78	-37.04	-8.62
		3.540 to 3.549	-42.50	-41.86	-42.28	-41.90	-25.04	-16.82
		3.549 to 3.550	-29.04	-29.31	-30.61	-28.12	-25.04	-3.08
		3.610 to 3.611	-29.09	-29.01	-29.53	-29.58	-25.04	-3.97
		3.611 to 3.620	-40.28	-40.29	-39.92	-40.15	-25.04	-14.88
		3.620 to 3.720	-40.79	-41.04	-40.61	-40.70	-37.04	-3.57
	6	3.530 to 3.540	-44.58	-44.26	-44.26	-44.30	-37.04	-7.22
		3.540 to 3.549	-41.30	-41.91	-41.47	-41.59	-25.04	-16.26
		3.549 to 3.550	-28.18	-28.17	-27.98	-27.88	-25.04	-2.84
		3.610 to 3.611	-29.24	-29.35	-28.78	-29.12	-25.04	-3.74
		3.611 to 3.620	-39.49	-39.77	-39.45	-39.53	-25.04	-14.41
		3.620 to 3.720	-40.28	-40.22	-40.13	-39.91	-37.04	-2.87
	7	3.530 to 3.540	-44.89	-44.68	-44.84	-44.75	-37.04	-7.64
		3.540 to 3.549	-42.08	-41.68	-42.17	-42.35	-25.04	-16.64
		3.549 to 3.550	-28.26	-29.72	-28.49	-29.13	-25.04	-3.22
		3.610 to 3.611	-29.24	-28.84	-29.32	-29.00	-25.04	-3.80
		3.611 to 3.620	-39.66	-40.09	-39.94	-39.53	-25.04	-14.49
		3.620 to 3.720	-40.42	-40.79	-40.37	-40.35	-37.04	-3.31
	8	3.530 to 3.540	-44.40	-43.98	-44.15	-44.33	-37.04	-6.94
		3.540 to 3.549	-41.12	-41.17	-40.84	-41.05	-25.04	-15.80
		3.549 to 3.550	-29.09	-28.23	-29.31	-27.82	-25.04	-2.78
		3.610 to 3.611	-29.48	-29.72	-29.56	-29.11	-25.04	-4.07
		3.611 to 3.620	-39.18	-39.36	-39.30	-39.37	-25.04	-14.14
		3.620 to 3.720	-39.87	-39.78	-39.73	-40.07	-37.04	-2.69
	9	3.530 to 3.540	-45.52	-45.19	-45.24	-45.42	-37.04	-8.15
		3.540 to 3.549	-42.63	-42.72	-42.51	-42.46	-25.04	-17.42
		3.549 to 3.550	-28.26	-28.31	-29.11	-27.81	-25.04	-2.77
		3.610 to 3.611	-30.08	-29.40	-29.77	-29.97	-25.04	-4.36

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-01904
Page (109) / (223) pages

Mid	10	3.611 to 3.620	-40.44	-40.12	-40.41	-40.40	-25.04	-15.08
		3.620 to 3.720	-41.18	-41.27	-40.90	-40.85	-37.04	-3.81
		3.530 to 3.540	-42.96	-42.82	-43.17	-43.12	-37.04	-5.78
		3.540 to 3.549	-41.29	-40.97	-40.92	-41.12	-25.04	-15.88
		3.549 to 3.550	-28.95	-29.05	-29.12	-28.82	-25.04	-3.78
		3.610 to 3.611	-29.32	-29.59	-29.59	-30.04	-25.04	-4.28
		3.611 to 3.620	-39.41	-39.31	-39.46	-39.28	-25.04	-14.24
	11	3.620 to 3.720	-40.11	-39.86	-39.73	-40.00	-37.04	-2.69
		3.530 to 3.540	-44.56	-44.32	-44.53	-44.34	-37.04	-7.28
		3.540 to 3.549	-41.83	-41.85	-41.62	-41.35	-25.04	-16.31
		3.549 to 3.550	-28.84	-29.22	-28.70	-28.58	-25.04	-3.54
		3.610 to 3.611	-29.51	-28.97	-29.82	-29.61	-25.04	-3.93
		3.611 to 3.620	-40.01	-39.54	-39.94	-39.60	-25.04	-14.50
	12	3.620 to 3.720	-40.61	-40.25	-40.29	-40.41	-37.04	-3.21
		3.530 to 3.540	-45.99	-45.78	-46.20	-45.68	-37.04	-8.64
		3.540 to 3.549	-42.37	-42.04	-42.29	-42.15	-25.04	-17.00
		3.549 to 3.550	-29.19	-28.46	-28.28	-28.69	-25.04	-3.24
		3.610 to 3.611	-29.98	-29.30	-29.62	-30.64	-25.04	-4.26
		3.611 to 3.620	-40.05	-39.97	-39.93	-39.71	-25.04	-14.67
	13	3.620 to 3.720	-40.86	-40.36	-40.61	-40.50	-37.04	-3.32
		3.530 to 3.540	-44.51	-44.50	-44.57	-44.76	-37.04	-7.46
		3.540 to 3.549	-41.82	-41.60	-42.10	-41.95	-25.04	-16.56
		3.549 to 3.550	-28.65	-28.01	-28.81	-27.85	-25.04	-2.81
		3.610 to 3.611	-29.49	-29.26	-29.10	-28.87	-25.04	-3.83
		3.611 to 3.620	-39.96	-39.92	-39.86	-39.73	-25.04	-14.69
	14	3.620 to 3.720	-40.55	-40.42	-40.49	-40.52	-37.04	-3.38
		3.530 to 3.540	-44.65	-44.28	-44.26	-44.15	-37.04	-7.11
		3.540 to 3.549	-41.52	-41.89	-42.02	-41.46	-25.04	-16.42
		3.549 to 3.550	-29.39	-29.71	-28.81	-29.53	-25.04	-3.77
		3.610 to 3.611	-29.56	-29.59	-29.10	-28.75	-25.04	-3.71
		3.611 to 3.620	-40.18	-40.09	-40.05	-39.72	-25.04	-14.68
	15	3.620 to 3.720	-40.72	-40.60	-40.72	-40.29	-37.04	-3.25
		3.530 to 3.540	-45.01	-45.16	-44.87	-44.47	-37.04	-7.43
		3.540 to 3.549	-42.77	-42.99	-42.83	-42.52	-25.04	-17.48
		3.549 to 3.550	-28.39	-28.54	-29.24	-28.73	-25.04	-3.35
		3.610 to 3.611	-29.85	-29.58	-30.13	-29.98	-25.04	-4.54
		3.611 to 3.620	-41.16	-41.00	-40.64	-40.69	-25.04	-15.60
Mid	0	3.620 to 3.720	-41.67	-41.97	-41.54	-41.59	-37.04	-4.50
		3.530 to 3.585	-40.69	-40.64	-40.82	-40.72	-37.04	-3.60
		3.585 to 3.594	-40.09	-40.51	-40.35	-40.53	-25.04	-15.05
		3.594 to 3.595	-28.41	-28.49	-28.52	-28.97	-25.04	-3.37
		3.655 to 3.656	-30.61	-30.49	-30.50	-30.42	-25.04	-5.38
		3.656 to 3.665	-40.50	-40.43	-40.79	-40.69	-25.04	-15.39
	1	3.665 to 3.720	-40.84	-40.93	-41.34	-41.31	-37.04	-3.80
		3.530 to 3.585	-41.72	-41.46	-41.79	-41.77	-37.04	-4.42
		3.585 to 3.594	-41.37	-40.75	-41.56	-41.16	-25.04	-15.71
		3.594 to 3.595	-27.89	-27.93	-28.29	-29.11	-25.04	-2.85
		3.655 to 3.656	-30.33	-30.45	-30.25	-30.26	-25.04	-5.21
		3.656 to 3.665	-40.89	-40.81	-41.11	-40.63	-25.04	-15.59
	2	3.665 to 3.720	-41.44	-41.42	-41.70	-41.54	-37.04	-4.38
		3.530 to 3.585	-40.42	-40.23	-40.50	-40.53	-37.04	-3.19
		3.585 to 3.594	-40.05	-39.55	-40.38	-39.93	-25.04	-14.51
		3.594 to 3.595	-28.85	-28.09	-28.03	-27.95	-25.04	-2.91
		3.655 to 3.656	-29.86	-29.60	-30.09	-29.82	-25.04	-4.56
		3.656 to 3.665	-40.05	-40.10	-40.26	-40.26	-25.04	-15.01
	3	3.665 to 3.720	-40.63	-40.50	-40.85	-40.50	-37.04	-3.46
		3.530 to 3.585	-40.98	-41.07	-41.32	-40.92	-37.04	-3.88
		3.585 to 3.594	-41.13	-41.12	-41.15	-40.68	-25.04	-15.64
		3.594 to 3.595	-28.38	-29.49	-28.76	-27.38	-25.04	-2.34
		3.655 to 3.656	-30.27	-30.22	-30.29	-30.36	-25.04	-5.18
		3.656 to 3.665	-40.67	-40.82	-41.06	-40.82	-25.04	-15.63

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-01904
Page (110) / (223) pages

4	3.665 to 3.720	-41.20	-41.36	-41.67	-41.39	-37.04	-4.16
	3.530 to 3.585	-41.13	-40.83	-41.24	-40.87	-37.04	-3.79
	3.585 to 3.594	-40.47	-40.23	-40.64	-40.51	-25.04	-15.19
	3.594 to 3.595	-27.60	-28.18	-28.47	-27.72	-25.04	-2.56
5	3.655 to 3.656	-29.90	-30.64	-30.02	-30.10	-25.04	-4.86
	3.656 to 3.665	-40.79	-40.58	-40.98	-40.75	-25.04	-15.54
	3.665 to 3.720	-41.09	-41.04	-41.52	-41.43	-37.04	-4.00
	3.530 to 3.585	-41.36	-41.26	-41.60	-41.50	-37.04	-4.22
6	3.585 to 3.594	-40.63	-40.73	-41.01	-40.77	-25.04	-15.59
	3.594 to 3.595	-28.15	-27.83	-28.37	-28.71	-25.04	-2.79
	3.655 to 3.656	-29.75	-30.02	-29.62	-29.68	-25.04	-4.58
	3.656 to 3.665	-40.77	-40.78	-41.16	-40.81	-25.04	-15.73
7	3.665 to 3.720	-41.43	-41.45	-41.66	-41.42	-37.04	-4.38
	3.530 to 3.585	-40.63	-40.28	-40.82	-40.73	-37.04	-3.24
	3.585 to 3.594	-40.25	-40.02	-40.70	-39.94	-25.04	-14.90
	3.594 to 3.595	-27.25	-27.34	-27.71	-27.12	-25.04	-2.08
8	3.655 to 3.656	-30.26	-29.67	-29.45	-29.49	-25.04	-4.41
	3.656 to 3.665	-40.32	-40.11	-40.31	-40.43	-25.04	-15.07
	3.665 to 3.720	-40.80	-40.77	-41.23	-41.13	-37.04	-3.73
	3.530 to 3.585	-40.73	-40.83	-40.99	-40.78	-37.04	-3.69
9	3.585 to 3.594	-40.11	-40.47	-40.49	-40.61	-25.04	-15.07
	3.594 to 3.595	-27.23	-27.13	-27.78	-26.81	-25.04	-1.77
	3.655 to 3.656	-29.99	-29.18	-29.33	-29.82	-25.04	-4.14
	3.656 to 3.665	-40.39	-40.43	-40.60	-40.28	-25.04	-15.24
10	3.665 to 3.720	-40.80	-41.00	-41.25	-41.07	-37.04	-3.76
	3.530 to 3.585	-40.43	-40.42	-40.16	-40.37	-37.04	-3.12
	3.585 to 3.594	-39.70	-40.00	-40.00	-40.15	-25.04	-14.66
	3.594 to 3.595	-27.47	-27.46	-28.45	-28.44	-25.04	-2.42
11	3.655 to 3.656	-30.57	-29.58	-30.47	-29.93	-25.04	-4.54
	3.656 to 3.665	-40.11	-39.97	-40.29	-40.26	-25.04	-14.93
	3.665 to 3.720	-40.53	-40.57	-40.75	-40.81	-37.04	-3.49
	3.530 to 3.585	-41.48	-41.18	-41.69	-41.53	-37.04	-4.14
12	3.585 to 3.594	-40.92	-41.11	-41.05	-41.22	-25.04	-15.88
	3.594 to 3.595	-28.05	-28.38	-28.02	-29.12	-25.04	-2.98
	3.655 to 3.656	-30.23	-29.95	-30.29	-30.10	-25.04	-4.91
	3.656 to 3.665	-41.01	-40.93	-41.39	-41.15	-25.04	-15.89
13	3.665 to 3.720	-41.69	-41.75	-41.92	-41.80	-37.04	-4.65
	3.530 to 3.585	-40.47	-40.42	-40.47	-40.45	-37.04	-3.38
	3.585 to 3.594	-40.24	-40.02	-40.26	-40.36	-25.04	-14.98
	3.594 to 3.595	-27.86	-28.29	-28.07	-27.97	-25.04	-2.82
14	3.655 to 3.656	-30.12	-29.80	-30.05	-29.66	-25.04	-4.62
	3.656 to 3.665	-39.90	-40.17	-40.32	-40.13	-25.04	-14.86
	3.665 to 3.720	-40.81	-40.53	-40.73	-40.81	-37.04	-3.49
	3.530 to 3.585	-40.98	-40.62	-40.70	-40.83	-37.04	-3.58
15	3.585 to 3.594	-40.32	-39.96	-40.57	-40.33	-25.04	-14.92
	3.594 to 3.595	-28.21	-28.28	-28.60	-27.95	-25.04	-2.91
	3.655 to 3.656	-29.74	-29.82	-30.21	-30.56	-25.04	-4.70
	3.656 to 3.665	-40.56	-40.59	-40.41	-40.53	-25.04	-15.37
16	3.665 to 3.720	-40.87	-41.02	-41.26	-41.28	-37.04	-3.83
	3.530 to 3.585	-41.66	-41.33	-41.61	-41.53	-37.04	-4.29
	3.585 to 3.594	-41.00	-40.52	-41.27	-40.87	-25.04	-15.48
	3.594 to 3.595	-28.76	-27.88	-28.31	-29.09	-25.04	-2.84
17	3.655 to 3.656	-30.18	-29.71	-30.66	-30.09	-25.04	-4.67
	3.656 to 3.665	-40.83	-40.80	-40.98	-40.97	-25.04	-15.76
	3.665 to 3.720	-41.10	-41.32	-41.38	-41.43	-37.04	-4.06
	3.530 to 3.585	-40.82	-40.78	-40.94	-40.87	-37.04	-3.74
18	3.585 to 3.594	-40.56	-40.19	-40.50	-40.53	-25.04	-15.15
	3.594 to 3.595	-27.54	-28.59	-27.69	-28.12	-25.04	-2.50
	3.655 to 3.656	-29.90	-29.52	-29.97	-29.70	-25.04	-4.48
	3.656 to 3.665	-40.65	-40.81	-40.92	-40.76	-25.04	-15.61
19	3.665 to 3.720	-41.35	-41.40	-41.60	-41.42	-37.04	-4.31

**CTK Co., Ltd.**

(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do,
17142, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

REPORT No.:
CTK-2025-01904
Page (111) / (223) pages

	14	3.530 to 3.585	-40.79	-40.79	-40.93	-40.95	-37.04	-3.75
		3.585 to 3.594	-40.53	-40.49	-40.69	-40.48	-25.04	-15.44
		3.594 to 3.595	-27.94	-27.68	-28.32	-27.82	-25.04	-2.64
		3.655 to 3.656	-30.27	-29.91	-29.82	-30.01	-25.04	-4.78
		3.656 to 3.665	-40.62	-40.55	-40.53	-40.65	-25.04	-15.49
		3.665 to 3.720	-41.21	-41.15	-41.36	-41.15	-37.04	-4.11
	15	3.530 to 3.585	-42.30	-42.09	-42.55	-42.10	-37.04	-5.05
		3.585 to 3.594	-41.84	-41.54	-41.77	-41.77	-25.04	-16.50
		3.594 to 3.595	-28.26	-28.24	-29.23	-29.52	-25.04	-3.20
		3.655 to 3.656	-30.39	-29.80	-30.23	-30.66	-25.04	-4.76
		3.656 to 3.665	-41.45	-41.43	-41.75	-41.62	-25.04	-16.39
		3.665 to 3.720	-42.36	-42.67	-42.76	-42.51	-37.04	-5.32
High	0	3.530 to 3.630	-40.44	-40.47	-40.42	-40.45	-37.04	-3.38
		3.630 to 3.639	-39.46	-39.68	-39.91	-39.84	-25.04	-14.42
		3.639 to 3.640	-27.47	-26.44	-27.89	-27.07	-25.04	-1.40
		3.700 to 3.701	-30.73	-29.95	-29.64	-29.45	-25.04	-4.41
		3.701 to 3.710	-40.84	-41.24	-40.85	-41.00	-25.04	-15.80
		3.710 to 3.720	-41.02	-41.39	-41.04	-41.05	-37.04	-3.98
	1	3.530 to 3.630	-41.27	-40.92	-41.33	-41.18	-37.04	-3.88
		3.630 to 3.639	-39.66	-39.99	-39.93	-40.24	-25.04	-14.62
		3.639 to 3.640	-27.67	-26.91	-26.98	-26.99	-25.04	-1.87
		3.700 to 3.701	-29.33	-29.71	-29.96	-30.26	-25.04	-4.29
		3.701 to 3.710	-41.20	-41.27	-41.31	-41.16	-25.04	-16.12
		3.710 to 3.720	-41.39	-41.58	-41.44	-41.31	-37.04	-4.27
	2	3.530 to 3.630	-40.01	-40.05	-40.32	-39.69	-37.04	-2.65
		3.630 to 3.639	-39.18	-39.66	-39.12	-39.15	-25.04	-14.08
		3.639 to 3.640	-27.00	-26.81	-26.81	-26.22	-25.04	-1.18
		3.700 to 3.701	-29.17	-28.64	-29.76	-28.73	-25.04	-3.60
		3.701 to 3.710	-40.39	-40.52	-40.59	-40.41	-25.04	-15.35
		3.710 to 3.720	-40.52	-40.75	-40.59	-40.61	-37.04	-3.48
	3	3.530 to 3.630	-41.07	-40.91	-41.02	-40.72	-37.04	-3.68
		3.630 to 3.639	-39.78	-39.98	-40.27	-40.02	-25.04	-14.74
		3.639 to 3.640	-27.24	-26.14	-27.56	-28.73	-25.04	-1.10
		3.700 to 3.701	-29.81	-29.04	-29.30	-29.73	-25.04	-4.00
		3.701 to 3.710	-40.90	-41.51	-41.18	-41.20	-25.04	-15.86
		3.710 to 3.720	-41.27	-41.61	-41.28	-41.49	-37.04	-4.23
	4	3.530 to 3.630	-40.45	-40.61	-40.71	-40.22	-37.04	-3.18
		3.630 to 3.639	-39.74	-39.76	-39.75	-39.80	-25.04	-14.70
		3.639 to 3.640	-27.77	-27.29	-27.82	-26.49	-25.04	-1.45
		3.700 to 3.701	-28.41	-29.28	-29.03	-29.39	-25.04	-3.37
		3.701 to 3.710	-40.99	-41.35	-41.08	-41.15	-25.04	-15.95
		3.710 to 3.720	-41.23	-41.62	-41.34	-41.29	-37.04	-4.19
	5	3.530 to 3.630	-40.80	-40.68	-40.89	-40.59	-37.04	-3.55
		3.630 to 3.639	-40.16	-40.10	-39.66	-39.98	-25.04	-14.62
		3.639 to 3.640	-27.56	-26.88	-27.78	-27.78	-25.04	-1.84
		3.700 to 3.701	-29.27	-29.91	-29.41	-28.77	-25.04	-3.73
		3.701 to 3.710	-40.99	-41.24	-41.16	-40.99	-25.04	-15.95
		3.710 to 3.720	-41.14	-41.54	-41.33	-41.20	-37.04	-4.10
	6	3.530 to 3.630	-40.20	-39.99	-40.35	-40.11	-37.04	-2.95
		3.630 to 3.639	-39.40	-39.71	-39.30	-39.45	-25.04	-14.26
		3.639 to 3.640	-26.67	-26.47	-26.10	-26.48	-25.04	-1.06
		3.700 to 3.701	-30.52	-28.38	-28.65	-28.40	-25.04	-3.34
		3.701 to 3.710	-40.66	-40.87	-40.81	-40.78	-25.04	-15.62
		3.710 to 3.720	-40.86	-41.15	-41.00	-41.00	-37.04	-3.82
	7	3.530 to 3.630	-40.54	-40.23	-40.87	-40.32	-37.04	-3.19
		3.630 to 3.639	-39.54	-39.79	-39.78	-39.70	-25.04	-14.50
		3.639 to 3.640	-27.59	-26.10	-27.88	-26.65	-25.04	-1.06
		3.700 to 3.701	-29.28	-28.88	-29.24	-29.52	-25.04	-3.84
		3.701 to 3.710	-40.42	-40.89	-40.83	-40.68	-25.04	-15.38
		3.710 to 3.720	-40.78	-41.13	-40.70	-40.82	-37.04	-3.66
	8	3.530 to 3.630	-39.93	-39.76	-39.96	-39.93	-37.04	-2.72