

Appendix D

Test Information:

Serial No.:	2PWP-4	Test Date:	2024/08/29~2024/08/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Karl Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C):	27.1~27.7	Relative Humidity: (%)	55	ATM Pressure: (kPa)	99.9~100.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Micro-Coax	Coaxial Cable	UFB205A	323308-012	2024/01/02	2025/01/01
Minl-Clrcuits	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2024/02/25	2025/02/24
R&S	Wideband Radio Communication Tester	CMW500	144976	2023/10/18	2024/10/17
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30173	2023/10/18	2024/10/17
All-sun	Clamp Meter	EM305A	8348897	2024/08/03	2025/08/02
TDK-Lambda	DC Power Supply	Z+60-14	F-08-EM038-1	N/A	N/A

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

RF Output Power

FCC Part 22H&IC RSS 132

GSM 850, Normal

Mode	Peak Conducted Power(dBm)	ERP (dBm)	Limit(dBm)	Result
GSM_Low	33.05	30.48	38.45	Pass
GSM_Middle	33.02	30.45	38.45	Pass
GSM_High	32.94	30.37	38.45	Pass
GPRS_Low_Solt1	32.89	30.32	38.45	Pass
GPRS_Low_Solt2	30.91	28.34	38.45	Pass
GPRS_Low_Solt3	29.16	26.59	38.45	Pass
GPRS_Low_Solt4	27.05	24.48	38.45	Pass
GPRS_Middle_Solt1	32.82	30.25	38.45	Pass
GPRS_Middle_Solt2	30.86	28.29	38.45	Pass
GPRS_Middle_Solt3	28.81	26.24	38.45	Pass
GPRS_Middle_Solt4	26.76	24.19	38.45	Pass
GPRS_High_Solt1	32.85	30.28	38.45	Pass
GPRS_High_Solt2	30.84	28.27	38.45	Pass
GPRS_High_Solt3	28.67	26.1	38.45	Pass
GPRS_High_Solt4	26.55	23.98	38.45	Pass
EDGE_Low_Solt1	26.04	23.47	38.45	Pass
EDGE_Low_Solt2	24.82	22.25	38.45	Pass
EDGE_Low_Solt3	22.56	19.99	38.45	Pass
EDGE_Low_Solt4	20.15	17.58	38.45	Pass
EDGE_Middle_Solt1	25.88	23.31	38.45	Pass
EDGE_Middle_Solt2	24.53	21.96	38.45	Pass
EDGE_Middle_Solt3	22.17	19.6	38.45	Pass
EDGE_Middle_Solt4	19.89	17.32	38.45	Pass
EDGE_High_Solt1	25.76	23.19	38.45	Pass
EDGE_High_Solt2	24.57	22	38.45	Pass
EDGE_High_Solt3	22.12	19.55	38.45	Pass
EDGE_High_Solt4	19.64	17.07	38.45	Pass

Note:

ERP = Conducted Power(dBm) - L_C(dB) + G_T(dBd)

G_T(dBd) = G_T(dBi) - 2.15

1.Ant Gain = -0.32dBi;

2.C_L = signal attenuation in the connecting cable between the transmitter and antenna in 0.1dB

FCC Part 22H&IC RSS 132**Band 5, Normal**

Mode	Average Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Result
R99_Low	22.32	19.75	38.45	Pass
R99_Middle	22.14	19.57	38.45	Pass
R99_High	22.05	19.48	38.45	Pass
HSDPA_Low_Subtest1	21.07	18.5	38.45	Pass
HSDPA_Low_Subtest2	21.92	19.35	38.45	Pass
HSDPA_Low_Subtest3	20.79	18.22	38.45	Pass
HSDPA_Low_Subtest4	20.88	18.31	38.45	Pass
HSDPA_Middle_Subtest1	20.68	18.11	38.45	Pass
HSDPA_Middle_Subtest2	21.46	18.89	38.45	Pass
HSDPA_Middle_Subtest3	20.75	18.18	38.45	Pass
HSDPA_Middle_Subtest4	20.51	17.94	38.45	Pass
HSDPA_High_Subtest1	20.54	17.97	38.45	Pass
HSDPA_High_Subtest2	21.28	18.71	38.45	Pass
HSDPA_High_Subtest3	20.49	17.92	38.45	Pass
HSDPA_High_Subtest4	20.27	17.7	38.45	Pass
HSUPA_Low_Subtest1	21.96	19.39	38.45	Pass
HSUPA_Low_Subtest2	21.02	18.45	38.45	Pass
HSUPA_Low_Subtest3	20.84	18.27	38.45	Pass
HSUPA_Low_Subtest4	21.62	19.05	38.45	Pass
HSUPA_Low_Subtest5	21.67	19.1	38.45	Pass
HSUPA_Middle_Subtest1	21.84	19.27	38.45	Pass
HSUPA_Middle_Subtest2	21.86	19.29	38.45	Pass
HSUPA_Middle_Subtest3	22.06	19.49	38.45	Pass
HSUPA_Middle_Subtest4	21.72	19.15	38.45	Pass
HSUPA_Middle_Subtest5	21.83	19.26	38.45	Pass
HSUPA_High_Subtest1	21.75	19.18	38.45	Pass
HSUPA_High_Subtest2	21.78	19.21	38.45	Pass
HSUPA_High_Subtest3	21.68	19.11	38.45	Pass
HSUPA_High_Subtest4	21.77	19.2	38.45	Pass
HSUPA_High_Subtest5	21.59	19.02	38.45	Pass
HSPA+_Low_Subtest1	21.46	18.89	38.45	Pass
HSPA+_Middle_Subtest1	21.52	18.95	38.45	Pass

Mode	Average Conducted Power(dBm)	ERP (dBm)	Limit (dBm)	Result
HSPA+_High_Subtest1	21.57	19	38.45	Pass
DC-HSDPA_Low_Subtest1	21.52	18.95	38.45	Pass
DC-HSDPA_Low_Subtest2	21.5	18.93	38.45	Pass
DC-HSDPA_Low_Subtest3	21.49	18.92	38.45	Pass
DC-HSDPA_Low_Subtest4	21.38	18.81	38.45	Pass
DC-HSDPA_Middle_Subtest1	21.19	18.62	38.45	Pass
DC-HSDPA_Middle_Subtest2	21.53	18.96	38.45	Pass
DC-HSDPA_Middle_Subtest3	21.85	19.28	38.45	Pass
DC-HSDPA_Middle_Subtest4	21.42	18.85	38.45	Pass
DC-HSDPA_High_Subtest1	21.09	18.52	38.45	Pass
DC-HSDPA_High_Subtest2	21.27	18.7	38.45	Pass
DC-HSDPA_High_Subtest3	21.63	19.06	38.45	Pass
DC-HSDPA_High_Subtest4	21.34	18.77	38.45	Pass

Note:

ERP = Average Conducted Power(dBm) - L_C(dB) + G_T(dBd)

G_T(dBd) = G_T(dBi) - 2.15

1.Ant Gain = -0.32dBi;

2.C_L = signal attenuation in the connecting cable between the transmitter and antenna in 0.1dB

FCC Part 22H&IC RSS 132**B5, Normal**

Mode	Average Conducted Power(dBm)	ERP (dBm)	ERP (W)	Limit (W)	Result
1.4MHz_Low_QPSK_1@0	24.01	21.44	0.139	7	Pass
1.4MHz_Low_QPSK_1@3	23.60	21.03	0.127	7	Pass
1.4MHz_Low_QPSK_1@5	23.95	21.38	0.137	7	Pass
1.4MHz_Low_QPSK_3@0	23.59	21.02	0.126	7	Pass
1.4MHz_Low_QPSK_3@1	23.24	20.67	0.117	7	Pass
1.4MHz_Low_QPSK_3@3	23.59	21.02	0.126	7	Pass
1.4MHz_Low_QPSK_6@0	23.19	20.62	0.115	7	Pass
1.4MHz_Low_16QAM_1@0	23.53	20.96	0.125	7	Pass
1.4MHz_Low_16QAM_1@3	23.72	21.15	0.130	7	Pass
1.4MHz_Low_16QAM_1@5	23.50	20.93	0.124	7	Pass
1.4MHz_Low_16QAM_3@0	23.55	20.98	0.125	7	Pass
1.4MHz_Low_16QAM_3@1	22.91	20.34	0.108	7	Pass
1.4MHz_Low_16QAM_3@3	23.11	20.54	0.113	7	Pass
1.4MHz_Low_16QAM_6@0	21.99	19.42	0.087	7	Pass
1.4MHz_Middle_QPSK_1@0	23.33	20.76	0.119	7	Pass
1.4MHz_Middle_QPSK_1@3	23.27	20.70	0.117	7	Pass
1.4MHz_Middle_QPSK_1@5	23.81	21.24	0.133	7	Pass
1.4MHz_Middle_QPSK_3@0	23.89	21.32	0.136	7	Pass
1.4MHz_Middle_QPSK_3@1	23.78	21.21	0.132	7	Pass
1.4MHz_Middle_QPSK_3@3	23.85	21.28	0.134	7	Pass
1.4MHz_Middle_QPSK_6@0	22.28	19.71	0.094	7	Pass
1.4MHz_Middle_16QAM_1@0	23.63	21.06	0.128	7	Pass
1.4MHz_Middle_16QAM_1@3	23.58	21.01	0.126	7	Pass
1.4MHz_Middle_16QAM_1@5	23.69	21.12	0.129	7	Pass
1.4MHz_Middle_16QAM_3@0	23.19	20.62	0.115	7	Pass
1.4MHz_Middle_16QAM_3@1	22.50	19.93	0.098	7	Pass
1.4MHz_Middle_16QAM_3@3	22.61	20.04	0.101	7	Pass
1.4MHz_Middle_16QAM_6@0	21.84	19.27	0.085	7	Pass
1.4MHz_High_QPSK_1@0	23.35	20.78	0.120	7	Pass
1.4MHz_High_QPSK_1@3	23.52	20.95	0.124	7	Pass
1.4MHz_High_QPSK_1@5	23.85	21.28	0.134	7	Pass
1.4MHz_High_QPSK_3@0	23.35	20.78	0.120	7	Pass
1.4MHz_High_QPSK_3@1	23.27	20.70	0.117	7	Pass
1.4MHz_High_QPSK_3@3	23.76	21.19	0.132	7	Pass
1.4MHz_High_QPSK_6@0	23.00	20.43	0.110	7	Pass
1.4MHz_High_16QAM_1@0	23.11	20.54	0.113	7	Pass
1.4MHz_High_16QAM_1@3	23.70	21.13	0.130	7	Pass

Mode	Average Conducted Power(dBm)	ERP (dBm)	ERP (W)	Limit (W)	Result
1.4MHz_High_16QAM_1@5	23.28	20.71	0.118	7	Pass
1.4MHz_High_16QAM_3@0	23.00	20.43	0.110	7	Pass
1.4MHz_High_16QAM_3@1	22.47	19.90	0.098	7	Pass
1.4MHz_High_16QAM_3@3	22.92	20.35	0.108	7	Pass
1.4MHz_High_16QAM_6@0	21.50	18.93	0.078	7	Pass
3MHz_Low_QPSK_1@0	24.21	21.64	0.146	7	Pass
3MHz_Low_QPSK_1@14	23.92	21.35	0.136	7	Pass
3MHz_Low_QPSK_1@8	23.37	20.80	0.120	7	Pass
3MHz_Low_QPSK_15@0	22.77	20.20	0.105	7	Pass
3MHz_Low_QPSK_8@0	22.88	20.31	0.107	7	Pass
3MHz_Low_QPSK_8@4	22.53	19.96	0.099	7	Pass
3MHz_Low_QPSK_8@7	22.63	20.06	0.101	7	Pass
3MHz_Low_16QAM_1@0	24.34	21.77	0.150	7	Pass
3MHz_Low_16QAM_1@14	24.33	21.76	0.150	7	Pass
3MHz_Low_16QAM_1@8	23.95	21.38	0.137	7	Pass
3MHz_Low_16QAM_15@0	22.32	19.75	0.094	7	Pass
3MHz_Low_16QAM_8@0	21.60	19.03	0.080	7	Pass
3MHz_Low_16QAM_8@4	21.76	19.19	0.083	7	Pass
3MHz_Low_16QAM_8@7	21.76	19.19	0.083	7	Pass
3MHz_Middle_QPSK_1@0	23.68	21.11	0.129	7	Pass
3MHz_Middle_QPSK_1@14	24.07	21.50	0.141	7	Pass
3MHz_Middle_QPSK_1@8	23.86	21.29	0.135	7	Pass
3MHz_Middle_QPSK_15@0	22.65	20.08	0.102	7	Pass
3MHz_Middle_QPSK_8@0	22.84	20.27	0.106	7	Pass
3MHz_Middle_QPSK_8@4	22.67	20.10	0.102	7	Pass
3MHz_Middle_QPSK_8@7	22.17	19.60	0.091	7	Pass
3MHz_Middle_16QAM_1@0	22.84	20.27	0.106	7	Pass
3MHz_Middle_16QAM_1@14	22.89	20.32	0.108	7	Pass
3MHz_Middle_16QAM_1@8	23.60	21.03	0.127	7	Pass
3MHz_Middle_16QAM_15@0	21.89	19.32	0.086	7	Pass
3MHz_Middle_16QAM_8@0	21.56	18.99	0.079	7	Pass
3MHz_Middle_16QAM_8@4	21.75	19.18	0.083	7	Pass
3MHz_Middle_16QAM_8@7	21.98	19.41	0.087	7	Pass
3MHz_High_QPSK_1@0	23.71	21.14	0.130	7	Pass
3MHz_High_QPSK_1@14	23.79	21.22	0.132	7	Pass
3MHz_High_QPSK_1@8	23.66	21.09	0.129	7	Pass
3MHz_High_QPSK_15@0	22.71	20.14	0.103	7	Pass
3MHz_High_QPSK_8@0	22.90	20.33	0.108	7	Pass
3MHz_High_QPSK_8@4	22.27	19.70	0.093	7	Pass

Mode	Average Conducted Power(dBm)	ERP (dBm)	ERP (W)	Limit (W)	Result
3MHz_High_QPSK_8@7	22.68	20.11	0.103	7	Pass
3MHz_High_16QAM_1@0	23.63	21.06	0.128	7	Pass
3MHz_High_16QAM_1@14	23.68	21.11	0.129	7	Pass
3MHz_High_16QAM_1@8	23.56	20.99	0.126	7	Pass
3MHz_High_16QAM_15@0	21.71	19.14	0.082	7	Pass
3MHz_High_16QAM_8@0	21.48	18.91	0.078	7	Pass
3MHz_High_16QAM_8@4	22.05	19.48	0.089	7	Pass
3MHz_High_16QAM_8@7	21.34	18.77	0.075	7	Pass
5MHz_Low_QPSK_1@0	23.92	21.35	0.136	7	Pass
5MHz_Low_QPSK_1@12	23.51	20.94	0.124	7	Pass
5MHz_Low_QPSK_1@24	23.29	20.72	0.118	7	Pass
5MHz_Low_QPSK_12@0	22.67	20.10	0.102	7	Pass
5MHz_Low_QPSK_12@13	22.67	20.10	0.102	7	Pass
5MHz_Low_QPSK_12@7	22.69	20.12	0.103	7	Pass
5MHz_Low_QPSK_25@0	22.45	19.88	0.097	7	Pass
5MHz_Low_16QAM_1@0	23.54	20.97	0.125	7	Pass
5MHz_Low_16QAM_1@12	23.33	20.76	0.119	7	Pass
5MHz_Low_16QAM_1@24	23.03	20.46	0.111	7	Pass
5MHz_Low_16QAM_12@0	21.99	19.42	0.087	7	Pass
5MHz_Low_16QAM_12@13	21.88	19.31	0.085	7	Pass
5MHz_Low_16QAM_12@7	21.85	19.28	0.085	7	Pass
5MHz_Low_16QAM_25@0	21.87	19.30	0.085	7	Pass
5MHz_Middle_QPSK_1@0	23.64	21.07	0.128	7	Pass
5MHz_Middle_QPSK_1@12	23.72	21.15	0.130	7	Pass
5MHz_Middle_QPSK_1@24	23.62	21.05	0.127	7	Pass
5MHz_Middle_QPSK_12@0	22.59	20.02	0.100	7	Pass
5MHz_Middle_QPSK_12@13	22.32	19.75	0.094	7	Pass
5MHz_Middle_QPSK_12@7	22.38	19.81	0.096	7	Pass
5MHz_Middle_QPSK_25@0	22.77	20.20	0.105	7	Pass
5MHz_Middle_16QAM_1@0	23.61	21.04	0.127	7	Pass
5MHz_Middle_16QAM_1@12	23.41	20.84	0.121	7	Pass
5MHz_Middle_16QAM_1@24	23.00	20.43	0.110	7	Pass
5MHz_Middle_16QAM_12@0	22.13	19.56	0.090	7	Pass
5MHz_Middle_16QAM_12@13	21.51	18.94	0.078	7	Pass
5MHz_Middle_16QAM_12@7	21.39	18.82	0.076	7	Pass
5MHz_Middle_16QAM_25@0	21.99	19.42	0.087	7	Pass
5MHz_High_QPSK_1@0	24.11	21.54	0.143	7	Pass
5MHz_High_QPSK_1@12	23.60	21.03	0.127	7	Pass
5MHz_High_QPSK_1@24	24.10	21.53	0.142	7	Pass

Mode	Average Conducted Power(dBm)	ERP (dBm)	ERP (W)	Limit (W)	Result
5MHz_High_QPSK_12@0	22.27	19.70	0.093	7	Pass
5MHz_High_QPSK_12@13	22.72	20.15	0.104	7	Pass
5MHz_High_QPSK_12@7	23.14	20.57	0.114	7	Pass
5MHz_High_QPSK_25@0	22.62	20.05	0.101	7	Pass
5MHz_High_16QAM_1@0	22.47	19.90	0.098	7	Pass
5MHz_High_16QAM_1@12	22.80	20.23	0.105	7	Pass
5MHz_High_16QAM_1@24	23.15	20.58	0.114	7	Pass
5MHz_High_16QAM_12@0	21.60	19.03	0.080	7	Pass
5MHz_High_16QAM_12@13	21.63	19.06	0.081	7	Pass
5MHz_High_16QAM_12@7	22.06	19.49	0.089	7	Pass
5MHz_High_16QAM_25@0	21.42	18.85	0.077	7	Pass
10MHz_Low_QPSK_1@0	23.53	20.96	0.125	7	Pass
10MHz_Low_QPSK_1@25	24.07	21.50	0.141	7	Pass
10MHz_Low_QPSK_1@49	23.84	21.27	0.134	7	Pass
10MHz_Low_QPSK_25@0	22.83	20.26	0.106	7	Pass
10MHz_Low_QPSK_25@12	22.27	19.70	0.093	7	Pass
10MHz_Low_QPSK_25@25	22.78	20.21	0.105	7	Pass
10MHz_Low_QPSK_50@0	22.93	20.36	0.109	7	Pass
10MHz_Low_16QAM_1@0	24.22	21.65	0.146	7	Pass
10MHz_Low_16QAM_1@25	23.58	21.01	0.126	7	Pass
10MHz_Low_16QAM_1@49	23.91	21.34	0.136	7	Pass
10MHz_Low_16QAM_25@0	21.90	19.33	0.086	7	Pass
10MHz_Low_16QAM_25@12	21.69	19.12	0.082	7	Pass
10MHz_Low_16QAM_25@25	21.43	18.86	0.077	7	Pass
10MHz_Low_16QAM_50@0	22.34	19.77	0.095	7	Pass
10MHz_Middle_QPSK_1@0	24.03	21.46	0.140	7	Pass
10MHz_Middle_QPSK_1@25	23.93	21.36	0.137	7	Pass
10MHz_Middle_QPSK_1@49	23.88	21.31	0.135	7	Pass
10MHz_Middle_QPSK_25@0	22.90	20.33	0.108	7	Pass
10MHz_Middle_QPSK_25@12	22.44	19.87	0.097	7	Pass
10MHz_Middle_QPSK_25@25	22.82	20.25	0.106	7	Pass
10MHz_Middle_QPSK_50@0	22.92	20.35	0.108	7	Pass
10MHz_Middle_16QAM_1@0	23.32	20.75	0.119	7	Pass
10MHz_Middle_16QAM_1@25	23.25	20.68	0.117	7	Pass
10MHz_Middle_16QAM_1@49	22.85	20.28	0.107	7	Pass
10MHz_Middle_16QAM_25@0	22.49	19.92	0.098	7	Pass
10MHz_Middle_16QAM_25@12	21.54	18.97	0.079	7	Pass
10MHz_Middle_16QAM_25@25	21.71	19.14	0.082	7	Pass
10MHz_Middle_16QAM_50@0	21.54	18.97	0.079	7	Pass

Mode	Average Conducted Power(dBm)	ERP (dBm)	ERP (W)	Limit (W)	Result
10MHz_High_QPSK_1@0	24.09	21.52	0.142	7	Pass
10MHz_High_QPSK_1@25	24.19	21.62	0.145	7	Pass
10MHz_High_QPSK_1@49	24.07	21.50	0.141	7	Pass
10MHz_High_QPSK_25@0	23.14	20.57	0.114	7	Pass
10MHz_High_QPSK_25@12	22.48	19.91	0.098	7	Pass
10MHz_High_QPSK_25@25	22.62	20.05	0.101	7	Pass
10MHz_High_QPSK_50@0	22.68	20.11	0.103	7	Pass
10MHz_High_16QAM_1@0	24.16	21.59	0.144	7	Pass
10MHz_High_16QAM_1@25	23.58	21.01	0.126	7	Pass
10MHz_High_16QAM_1@49	24.14	21.57	0.144	7	Pass
10MHz_High_16QAM_25@0	21.92	19.35	0.086	7	Pass
10MHz_High_16QAM_25@12	21.97	19.40	0.087	7	Pass
10MHz_High_16QAM_25@25	21.52	18.95	0.079	7	Pass
10MHz_High_16QAM_50@0	21.89	19.32	0.086	7	Pass

Note:

ERP = Average Conducted Power(dBm) - L_C(dB) + G_T(dBd)

G_T(dBd) = G_T(dBi) - 2.15

1.Ant Gain = -0.32dBi;

2.C_L = signal attenuation in the connecting cable between the transmitter and antenna in 0.1dB