

Appendix -

FE Test Data and Result for report GZCR240300030901



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch EMC Laboratory

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No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

6.1 Test result.

Test Band	Test mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 Band2	QPSK/ 20MHz	LCH	TN	VL	2.25	0.00121	PASS
				VN	-2.12	-0.00114	PASS
				VH	1.21	0.00065	PASS
		MCH	TN	VL	-2.38	-0.00127	PASS
				VN	-1.33	-0.00071	PASS
				VH	2.12	0.00113	PASS
		HCH	TN	VL	1.83	0.00096	PASS
				VN	-0.43	-0.00023	PASS
				VH	-0.87	-0.00046	PASS
	16QAM/ 20MHz	LCH	TN	VL	-0.73	-0.00039	PASS
				VN	-1.29	-0.00069	PASS
				VH	-2.64	-0.00142	PASS
		MCH	TN	VL	1.29	0.00069	PASS
				VN	-2.16	-0.00115	PASS
				VH	1.27	0.00068	PASS
		HCH	TN	VL	-2.67	-0.00141	PASS
				VN	-1.85	-0.00097	PASS
				VH	2.31	0.00122	PASS



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Test Band	Test mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 Band4	QPSK/ 20MHz	LCH	TN	VL	-1.28	-0.00074	PASS
				VN	2.21	0.00128	PASS
				VH	-0.98	-0.00057	PASS
		MCH	TN	VL	1.35	0.00078	PASS
				VN	2.72	0.00157	PASS
				VH	1.26	0.00073	PASS
		HCH	TN	VL	-0.46	-0.00026	PASS
				VN	0.86	0.00049	PASS
				VH	1.28	0.00073	PASS
	16QAM/ 20MHz	LCH	TN	VL	-2.27	-0.00132	PASS
				VN	1.19	0.00069	PASS
				VH	1.53	0.00089	PASS
		MCH	TN	VL	2.56	0.00148	PASS
				VN	-1.76	-0.00102	PASS
				VH	2.62	0.00151	PASS
		HCH	TN	VL	-1.41	-0.00081	PASS
				VN	0.82	0.00047	PASS
				VH	2.17	0.00124	PASS



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Guangzhou Branch, EMC Laboratory

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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

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Test Band	Test mode	Test Channel	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 Band12	QPSK/ 10MHz	LCH	TN	VL	2.35	0.00334	PASS
				VN	1.27	0.00180	PASS
				VH	0.93	0.00132	PASS
		MCH	TN	VL	2.52	0.00356	PASS
				VN	-0.94	-0.00133	PASS
				VH	1.68	0.00237	PASS
		HCH	TN	VL	-0.72	-0.00101	PASS
				VN	1.67	0.00235	PASS
				VH	0.92	0.00129	PASS
	16QAM/ 10MHz	LCH	TN	VL	-2.28	-0.00324	PASS
				VN	-0.95	-0.00135	PASS
				VH	2.19	0.00311	PASS
		MCH	TN	VL	1.85	0.00261	PASS
				VN	-0.98	-0.00139	PASS
				VH	1.49	0.00211	PASS
		HCH	TN	VL	-0.87	-0.00122	PASS
				VN	1.14	0.00160	PASS
				VH	2.18	0.00307	PASS



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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

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Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 Band2	QPSK/ 20MHz	LCH	VN	-30	2.18	0.00117	PASS
				-20	1.87	0.00101	PASS
				-10	1.98	0.00106	PASS
				0	2.56	0.00138	PASS
				10	1.87	0.00101	PASS
				20	1.56	0.00084	PASS
				30	1.93	0.00104	PASS
				40	2.38	0.00128	PASS
				50	1.96	0.00105	PASS
		MCH	VN	-30	1.78	0.00095	PASS
				-20	1.77	0.00094	PASS
				-10	0.78	0.00041	PASS
				0	1.86	0.00099	PASS
				10	-0.92	-0.00049	PASS
				20	1.28	0.00068	PASS
				30	1.87	0.00099	PASS
				40	-0.67	-0.00036	PASS
				50	0.41	0.00022	PASS
		HCH	VN	-30	1.78	0.00094	PASS
				-20	1.77	0.00093	PASS
				-10	0.96	0.00051	PASS
				0	1.27	0.00067	PASS
				10	-0.2	-0.00011	PASS
				20	1.91	0.00101	PASS
				30	2.19	0.00115	PASS
				40	1.77	0.00093	PASS
				50	-1.25	-0.00066	PASS



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Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 Band2	16QAM/ 20MHz	LCH	VN	-30	1.47	0.00079	PASS
				-20	1.45	0.00078	PASS
				-10	-0.76	-0.00041	PASS
				0	0.95	0.00051	PASS
				10	1.26	0.00068	PASS
				20	0.89	0.00048	PASS
				30	1.98	0.00106	PASS
				40	1.73	0.00093	PASS
				50	1.85	0.00099	PASS
		MCH	VN	-30	-1.38	-0.00073	PASS
				-20	2.17	0.00115	PASS
				-10	-1.88	-0.00100	PASS
				0	1.64	0.00087	PASS
				10	2.18	0.00116	PASS
				20	-1.25	-0.00066	PASS
				30	1.26	0.00067	PASS
				40	-1.33	-0.00071	PASS
				50	-0.61	-0.00032	PASS
		HCH	VN	-30	1.61	0.00085	PASS
				-20	1.08	0.00057	PASS
				-10	-0.54	-0.00028	PASS
				0	1.56	0.00082	PASS
				10	-1.22	-0.00064	PASS
				20	1.29	0.00068	PASS
				30	-0.02	-0.00001	PASS
				40	1.54	0.00081	PASS
				50	-2.22	-0.00117	PASS



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CatM1 Band4	QPSK/ 20MHz	LCH	VN	-30	1.76	0.00102	PASS
				-20	1.54	0.00090	PASS
				-10	-0.78	-0.00045	PASS
				0	1.56	0.00091	PASS
				10	0.24	0.00014	PASS
				20	2.53	0.00147	PASS
				30	1.87	0.00109	PASS
				40	2.56	0.00149	PASS
				50	2.74	0.00159	PASS
		MCH	VN	-30	1.26	0.00073	PASS
				-20	-0.96	-0.00055	PASS
				-10	-1.15	-0.00066	PASS
				0	-0.56	-0.00032	PASS
				10	-0.67	-0.00039	PASS
				20	1.97	0.00114	PASS
				30	2.32	0.00134	PASS
				40	-1.52	-0.00088	PASS
				50	1.55	0.00089	PASS
		HCH	VN	-30	1.87	0.00107	PASS
				-20	-0.56	-0.00032	PASS
				-10	2.16	0.00124	PASS
				0	2.39	0.00137	PASS
				10	2.12	0.00121	PASS
				20	1.57	0.00090	PASS
				30	2.32	0.00133	PASS
				40	-1.26	-0.00072	PASS
				50	0.45	0.00026	PASS



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Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 Band4	16QAM/ 20MHz	LCH	VN	-30	1.73	0.00101	PASS
				-20	-1.68	-0.00098	PASS
				-10	1.26	0.00073	PASS
				0	1.45	0.00084	PASS
				10	2.69	0.00156	PASS
				20	2.44	0.00142	PASS
				30	1.61	0.00094	PASS
				40	2.45	0.00142	PASS
				50	2.58	0.00150	PASS
		MCH	VN	-30	-1.46	-0.00084	PASS
				-20	2.16	0.00125	PASS
				-10	-1.57	-0.00091	PASS
				0	1.03	0.00059	PASS
				10	-1.29	-0.00074	PASS
				20	2.27	0.00131	PASS
				30	1.53	0.00088	PASS
				40	0.76	0.00044	PASS
				50	1.02	0.00059	PASS
		HCH	VN	-30	2.19	0.00126	PASS
				-20	2.37	0.00136	PASS
				-10	1.39	0.00080	PASS
				0	2.43	0.00139	PASS
				10	0.41	0.00023	PASS
				20	2.52	0.00144	PASS
				30	2.37	0.00136	PASS
				40	0.76	0.00044	PASS
				50	-0.78	-0.00045	PASS



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CatM1 Band12	QPSK/ 10MHz	LCH	VN	-30	2.25	0.00320	PASS
				-20	2.09	0.00297	PASS
				-10	1.46	0.00207	PASS
				0	1.64	0.00233	PASS
				10	1.51	0.00214	PASS
				20	1.68	0.00239	PASS
				30	1.75	0.00249	PASS
				40	1.58	0.00224	PASS
				50	1.28	0.00182	PASS
		MCH	VN	-30	-1.77	-0.00250	PASS
				-20	-1.46	-0.00206	PASS
				-10	-2.23	-0.00315	PASS
				0	1.54	0.00218	PASS
				10	2.15	0.00304	PASS
				20	-1.76	-0.00249	PASS
				30	1.24	0.00175	PASS
				40	1.63	0.00230	PASS
				50	-2.09	-0.00295	PASS
		HCH	VN	-30	1.67	0.00235	PASS
				-20	1.04	0.00146	PASS
				-10	1.82	0.00256	PASS
				0	2.46	0.00346	PASS
				10	0.73	0.00103	PASS
				20	1.54	0.00217	PASS
				30	2.57	0.00361	PASS
				40	1.45	0.00204	PASS
				50	-2.14	-0.00301	PASS



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Test Band	Test mode	Test Channel	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CatM1 Band12	16QAM/ 10MHz	LCH	VN	-30	2.09	0.00297	PASS
				-20	-2.13	-0.00303	PASS
				-10	1.51	0.00214	PASS
				0	1.26	0.00179	PASS
				10	-1.73	-0.00246	PASS
				20	1.54	0.00219	PASS
				30	2.46	0.00349	PASS
				40	2.17	0.00308	PASS
				50	1.71	0.00243	PASS
		MCH	VN	-30	-0.81	-0.00114	PASS
				-20	2.82	0.00399	PASS
				-10	0.62	0.00088	PASS
				0	1.81	0.00256	PASS
				10	-2.25	-0.00318	PASS
				20	-1.86	-0.00263	PASS
				30	1.61	0.00228	PASS
				40	-1.63	-0.00230	PASS
				50	-0.56	-0.00079	PASS
		HCH	VN	-30	1.71	0.00241	PASS
				-20	1.6	0.00225	PASS
				-10	0.75	0.00105	PASS
				0	1.29	0.00181	PASS
				10	-0.82	-0.00115	PASS
				20	1.51	0.00212	PASS
				30	1.13	0.00159	PASS
				40	-1.73	-0.00243	PASS
				50	-1.59	-0.00224	PASS

Note:

- (1) Parts per million (ppm) is obtained as the difference from the reference frequency (in Hz) divided by the reference frequency (in MHz).
- (2) All modes(Include battery only operation)have been tested and we only record the worst test result.

- End of the Appendix -



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