

GSM 850&1900 Test Data

General Description of EUT	
Product Name:	Total station
Test Model:	NS30
Sample ID:	202306-0191-1-2#
Environmental Conditions	
Temperature:	25℃
Relative Humidity:	55%
Test Voltage:	DC 12V
Test Engineer:	Huang jian ping
Note: For a more detailed features description, please refer to the report TBR-C-202306-0191-61. The report only show the worst case data.	

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1: Conducted Output Power Data

Test Result

Band	Channel	ERP/EIRP(dBm)	Limit(dBm)	Verdict
GSM850	128	32.90	38.45	PASS
GSM850	190	32.90	38.45	PASS
GSM850	251	32.89	38.45	PASS
GSM1900	512	28.51	33.00	PASS
GSM1900	661	28.76	33.00	PASS
GSM1900	810	28.63	33.00	PASS

Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
GPRS850	128	1	32.82	38.45	PASS
GPRS850	128	2	31.94	38.45	PASS
GPRS850	128	3	30.01	38.45	PASS
GPRS850	128	4	28.74	38.45	PASS
GPRS850	190	1	32.81	38.45	PASS
GPRS850	190	2	31.91	38.45	PASS
GPRS850	190	3	29.94	38.45	PASS
GPRS850	190	4	28.62	38.45	PASS
GPRS850	251	1	32.80	38.45	PASS
GPRS850	251	2	31.92	38.45	PASS
GPRS850	251	3	29.95	38.45	PASS
GPRS850	251	4	28.58	38.45	PASS
GPRS1900	512	1	28.61	33.00	PASS
GPRS1900	512	2	27.72	33.00	PASS
GPRS1900	512	3	25.50	33.00	PASS
GPRS1900	512	4	24.09	33.00	PASS
GPRS1900	661	1	28.80	33.00	PASS
GPRS1900	661	2	28.03	33.00	PASS
GPRS1900	661	3	25.90	33.00	PASS
GPRS1900	661	4	24.58	33.00	PASS
GPRS1900	810	1	28.67	33.00	PASS
GPRS1900	810	2	28.07	33.00	PASS
GPRS1900	810	3	26.33	33.00	PASS
GPRS1900	810	4	25.08	33.00	PASS

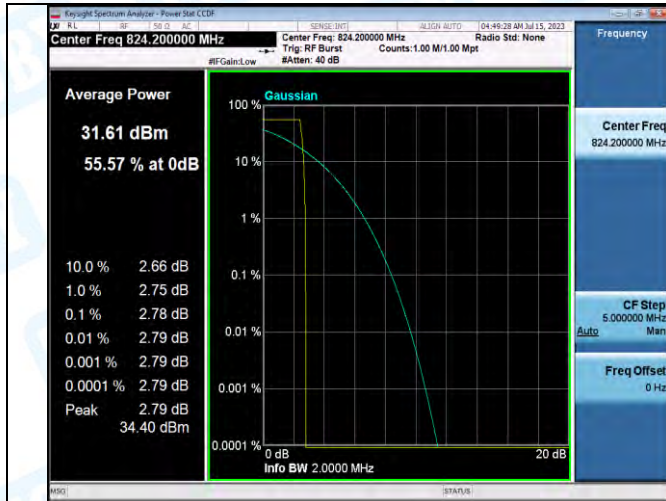
Band	Channel	Slot	Power(dBm)	Limit(dBm)	Verdict
EGPRS850	128	1	26.96	38.45	PASS
EGPRS850	128	2	25.94	38.45	PASS
EGPRS850	128	3	23.81	38.45	PASS
EGPRS850	128	4	22.81	38.45	PASS
EGPRS850	190	1	26.86	38.45	PASS
EGPRS850	190	2	25.83	38.45	PASS
EGPRS850	190	3	23.71	38.45	PASS
EGPRS850	190	4	22.69	38.45	PASS
EGPRS850	251	1	26.87	38.45	PASS
EGPRS850	251	2	25.84	38.45	PASS
EGPRS850	251	3	23.68	38.45	PASS
EGPRS850	251	4	22.69	38.45	PASS
EGPRS1900	512	1	25.07	33.00	PASS
EGPRS1900	512	2	23.99	33.00	PASS
EGPRS1900	512	3	22.15	33.00	PASS
EGPRS1900	512	4	21.06	33.00	PASS
EGPRS1900	661	1	25.33	33.00	PASS
EGPRS1900	661	2	24.46	33.00	PASS
EGPRS1900	661	3	22.46	33.00	PASS
EGPRS1900	661	4	21.40	33.00	PASS
EGPRS1900	810	1	25.47	33.00	PASS
EGPRS1900	810	2	24.63	33.00	PASS
EGPRS1900	810	3	22.74	33.00	PASS
EGPRS1900	810	4	21.73	33.00	PASS

2: Peak-to-Average Ratio(CCDF)

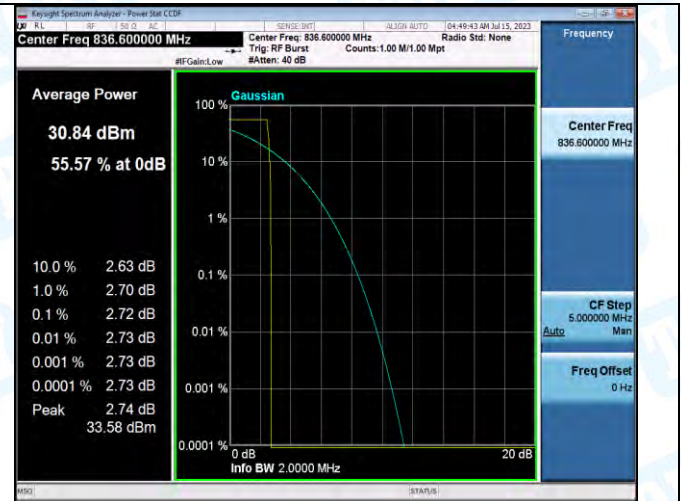
Test Result

Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	2.78	13	PASS
GSM850	190	2.72	13	PASS
GSM850	251	2.72	13	PASS
GSM1900	512	2.7	13	PASS
GSM1900	661	2.66	13	PASS
GSM1900	810	2.63	13	PASS
GPRS850	128	2.78	13	PASS
GPRS850	190	2.73	13	PASS
GPRS850	251	2.72	13	PASS
EGPRS850	128	5.41	13	PASS
EGPRS850	190	5.39	13	PASS
EGPRS850	251	5.39	13	PASS
GPRS1900	512	2.69	13	PASS
GPRS1900	661	2.66	13	PASS
GPRS1900	810	2.63	13	PASS
EGPRS1900	512	5.43	13	PASS
EGPRS1900	661	5.36	13	PASS
EGPRS1900	810	5.16	13	PASS

Test Graphs



GSM850-128-5-PASS



GSM850-190-5-PASS



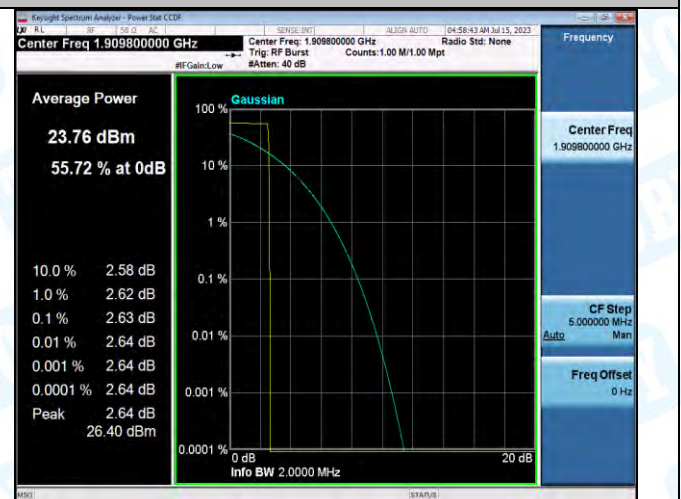
GSM850-251-5-PASS



GSM1900-512-0-PASS



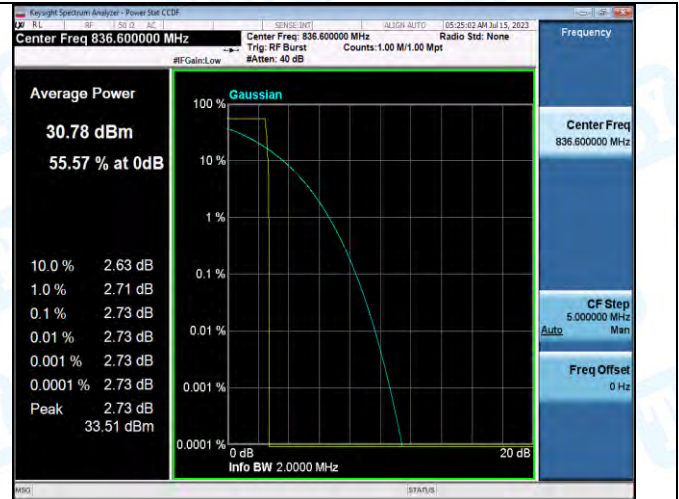
GSM1900-661-0-PASS



GSM1900-810-0-PASS



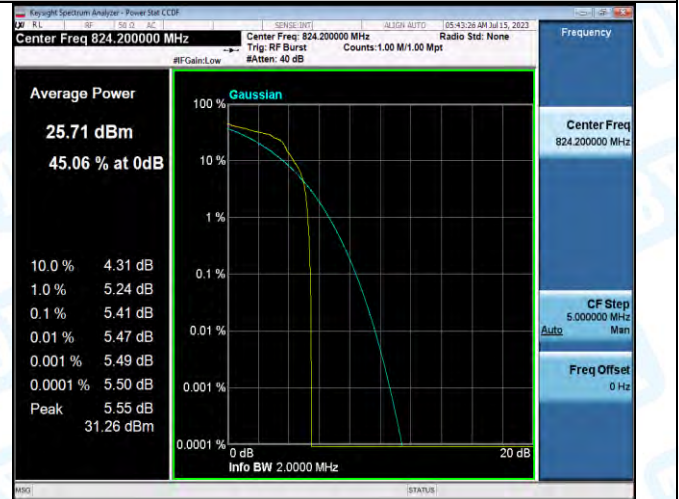
GPRS850-128-5-PASS



GPRS850-190-5-PASS



GPRS850-251-5-PASS



EGPRS850-128-8-PASS



EGPRS850-190-8-PASS



EGPRS850-251-8-PASS



GPRS1900-512-0-PASS



GPRS1900-661-0-PASS



GPRS1900-810-0-PASS



EGPRS1900-512-2-PASS



EGPRS1900-661-2-PASS



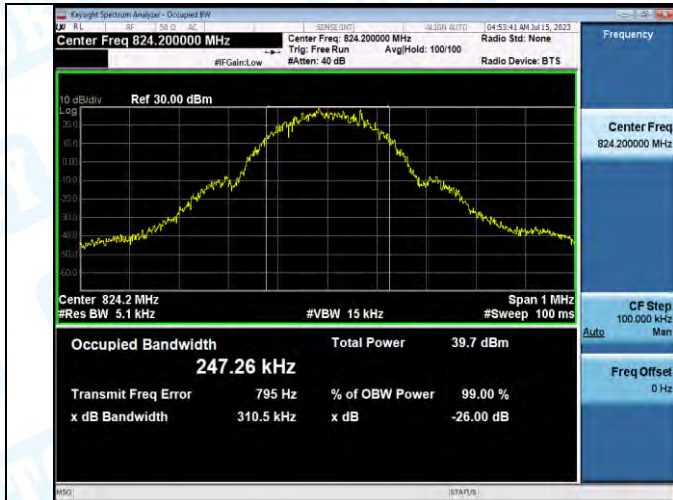
EGPRS1900-810-2-PASS

3: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.24726	0.3105	---	PASS
GSM850	190	0.25245	0.3143	---	PASS
GSM850	251	0.24570	0.3143	---	PASS
GSM1900	512	0.24706	0.3137	---	PASS
GSM1900	661	0.24479	0.3130	---	PASS
GSM1900	810	0.24662	0.3137	---	PASS
GPRS850	128	0.24632	0.3134	---	PASS
GPRS850	190	0.24570	0.3170	---	PASS
GPRS850	251	0.24583	0.3128	---	PASS
EGPRS850	128	0.25146	0.3055	---	PASS
EGPRS850	190	0.24911	0.3100	---	PASS
EGPRS850	251	0.25196	0.3049	---	PASS
GPRS1900	512	0.24385	0.3171	---	PASS
GPRS1900	661	0.24685	0.3142	---	PASS
GPRS1900	810	0.24813	0.3146	---	PASS
EGPRS1900	512	0.24664	0.3032	---	PASS
EGPRS1900	661	0.25289	0.3149	---	PASS
EGPRS1900	810	0.25072	0.3135	---	PASS

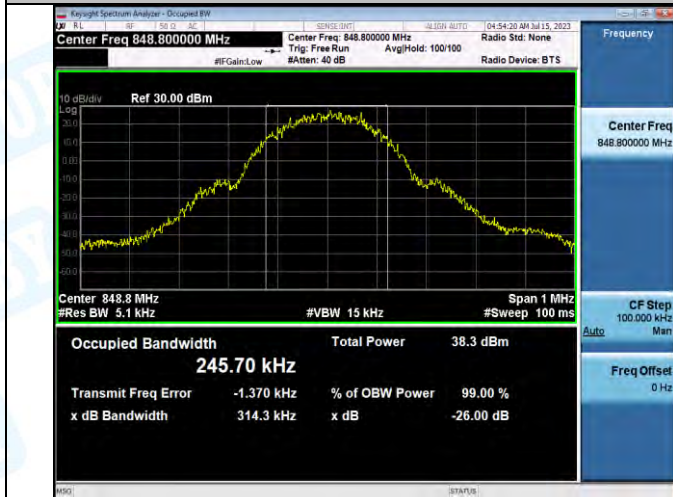
Test Graphs



GSM850-128-5-PASS



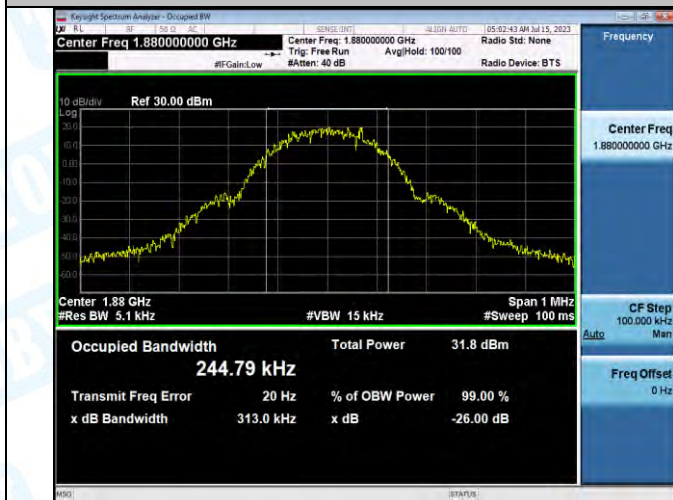
GSM850-190-5-PASS



GSM850-251-5-PASS



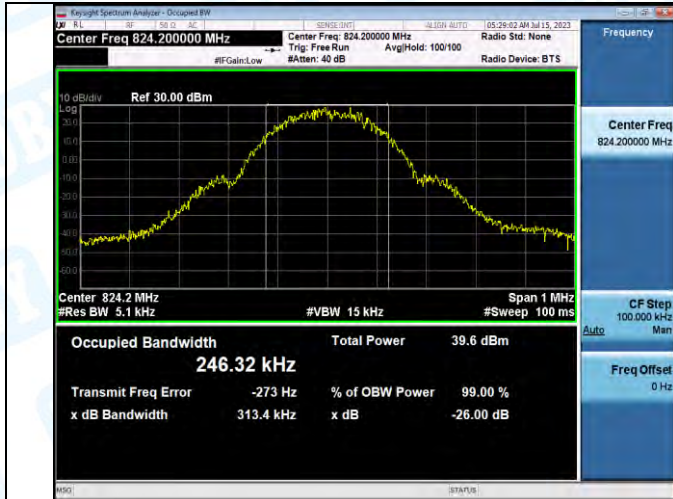
GSM1900-512-0-PASS



GSM1900-661-0-PASS



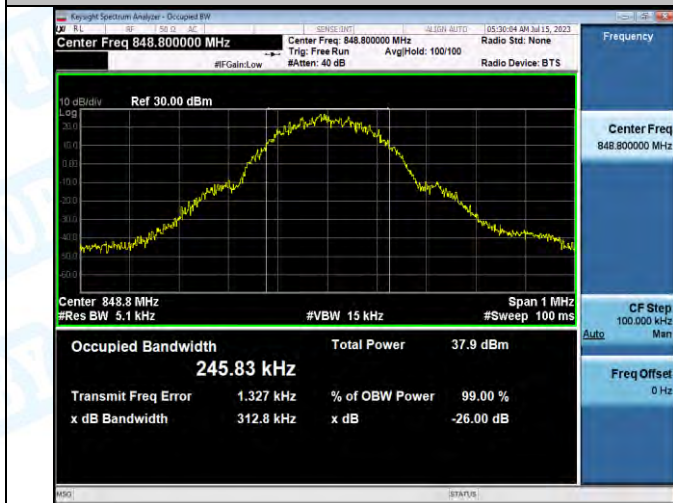
GSM1900-810-0-PASS



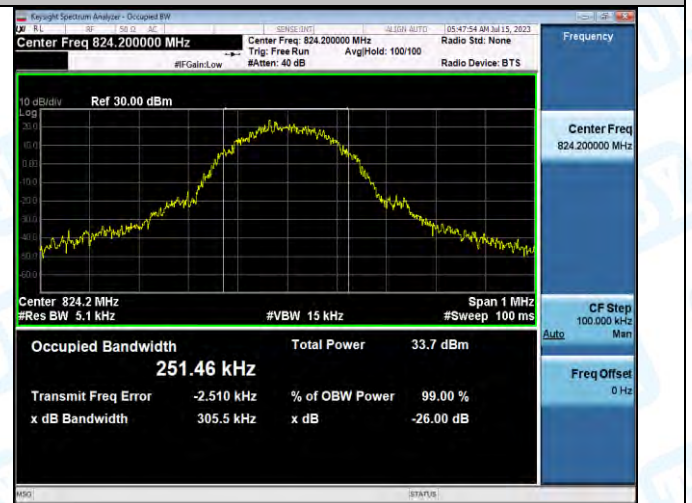
GPRS850-128-5-PASS



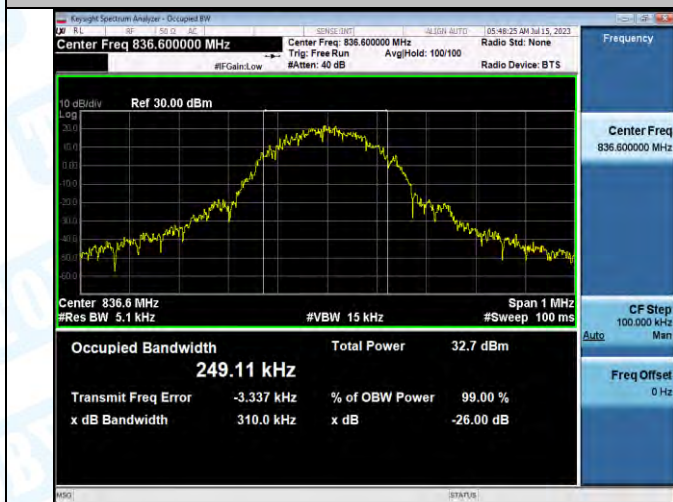
GPRS850-190-5-PASS



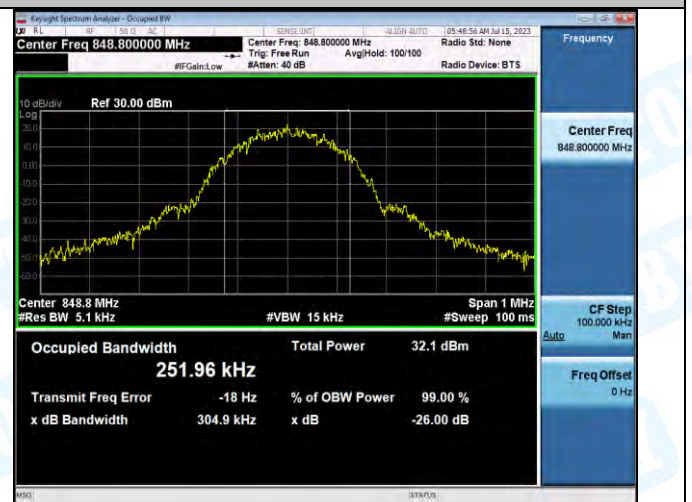
GPRS850-251-5-PASS



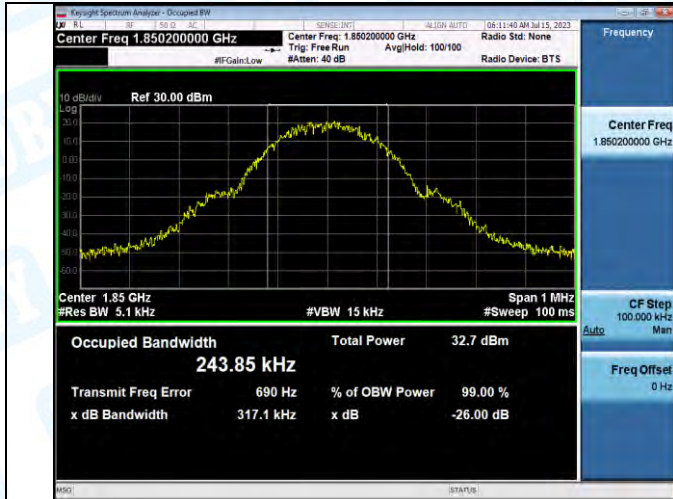
EGPRS850-128-8-PASS



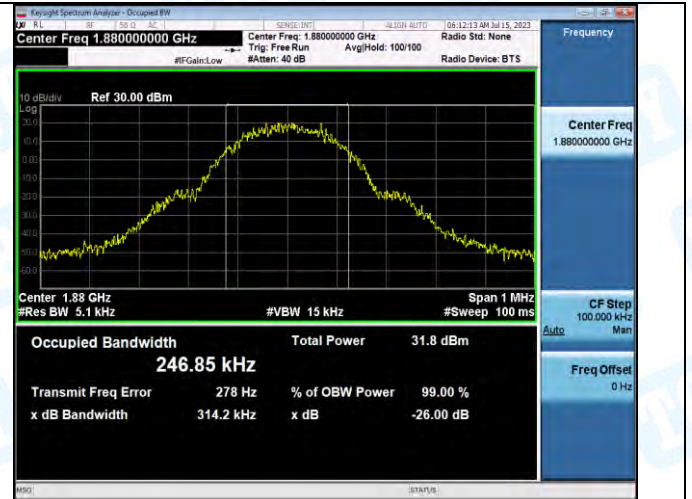
EGPRS850-190-8-PASS



EGPRS850-251-8-PASS



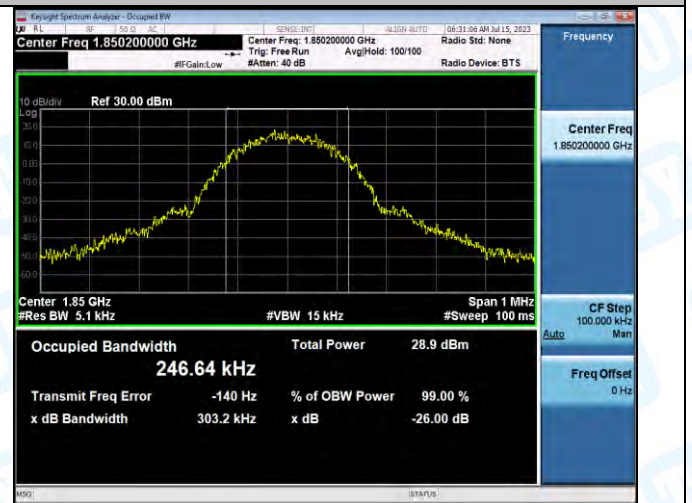
GPRS1900-512-0-PASS



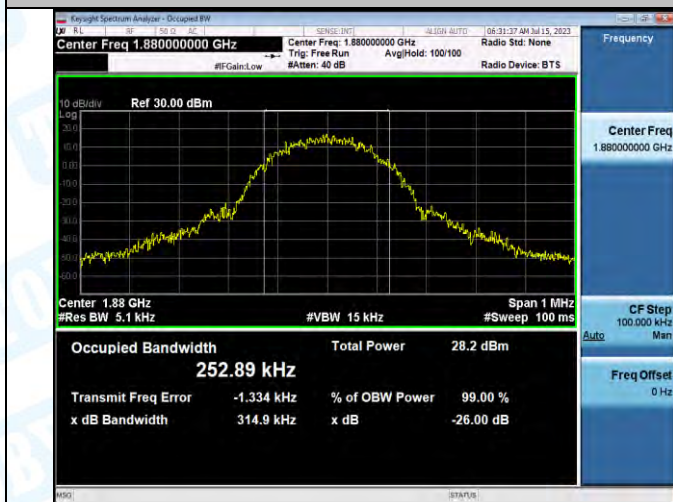
GPRS1900-661-0-PASS



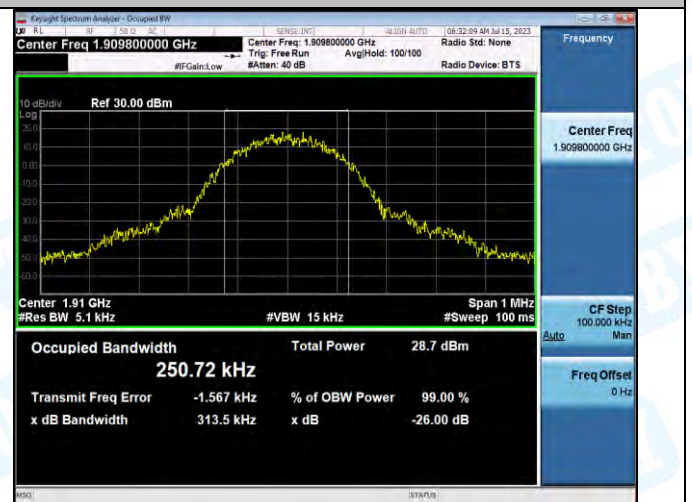
GPRS1900-810-0-PASS



EGPRS1900-512-2-PASS



EGPRS1900-661-2-PASS



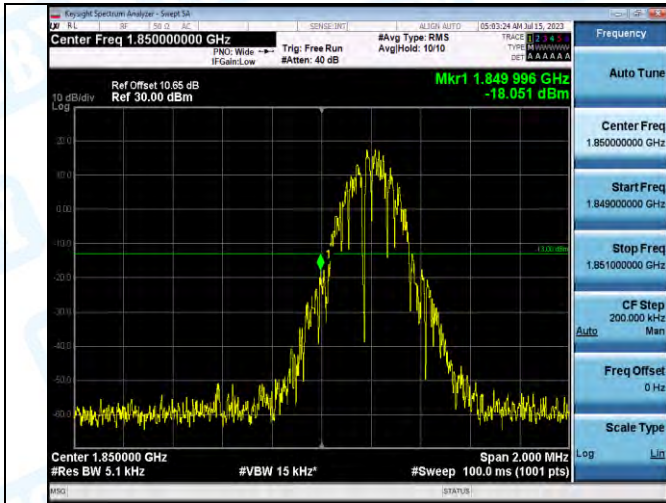
EGPRS1900-810-2-PASS

4: Band Edge

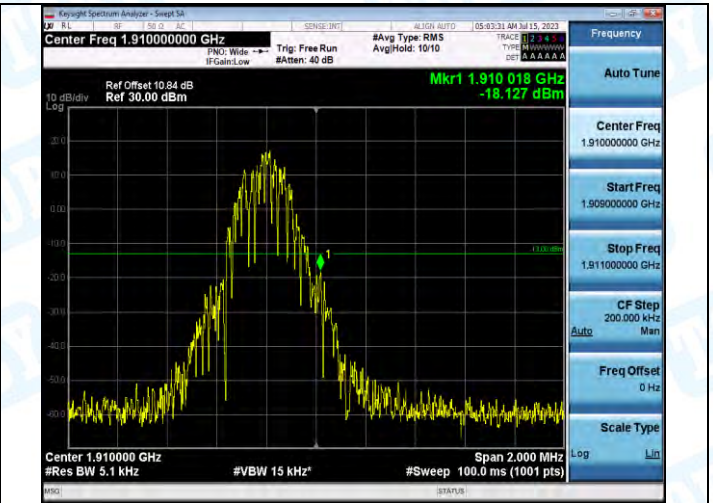
Test Result

Band	Channel	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM1900	512	1850.00	-18.05	-13	PASS
GSM1900	810	1910.02	-18.13	-13	PASS
GPRS850	128	823.98	-14.15	-13	PASS
GPRS850	251	849.03	-14.03	-13	PASS
EGPRS850	128	823.96	-22.12	-13	PASS
EGPRS850	251	849.00	-22.97	-13	PASS
GPRS1900	512	1849.97	-20.47	-13	PASS
GPRS1900	810	1910.02	-17.65	-13	PASS
EGPRS1900	512	1849.99	-26.14	-13	PASS
EGPRS1900	810	1910.03	-27.90	-13	PASS
GSM850	128	823.97	-13.36	-13	PASS
GSM850	251	849.01	-14.54	-13	PASS

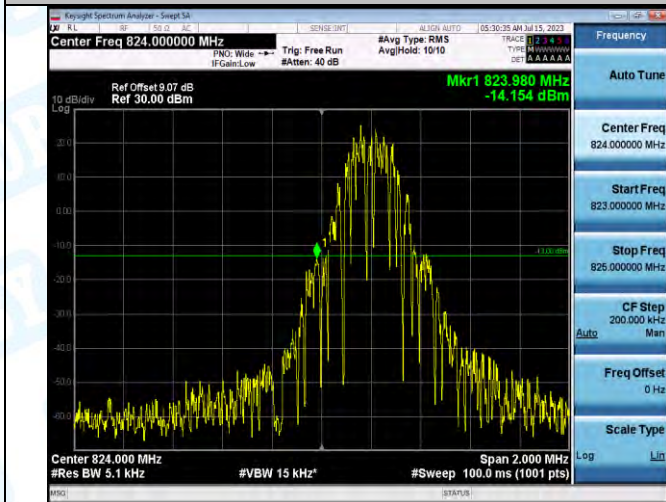
Test Graphs



GSM1900-512-0-PASS



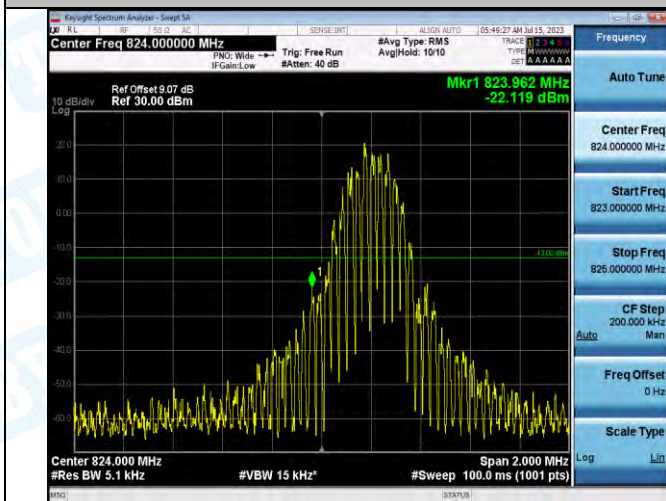
GSM1900-810-0-PASS



GPRS850-128-5-PASS



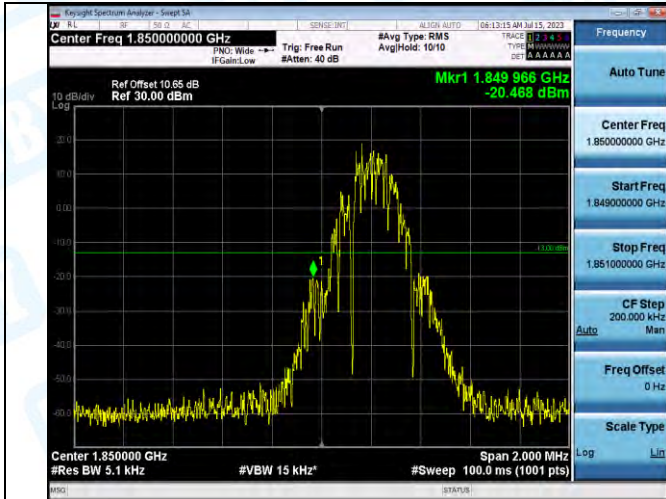
GPRS850-251-5-PASS



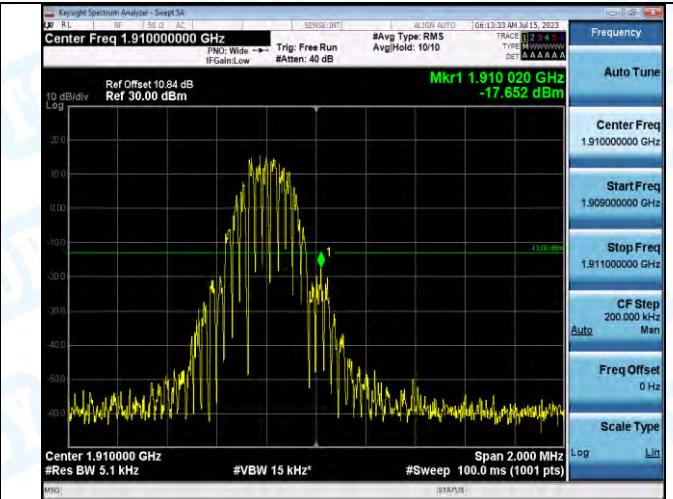
EGPRS850-128-8-PASS



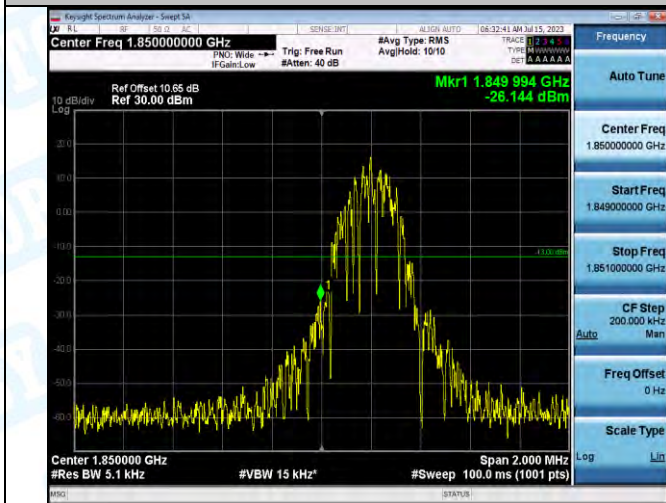
EGPRS850-251-8-PASS



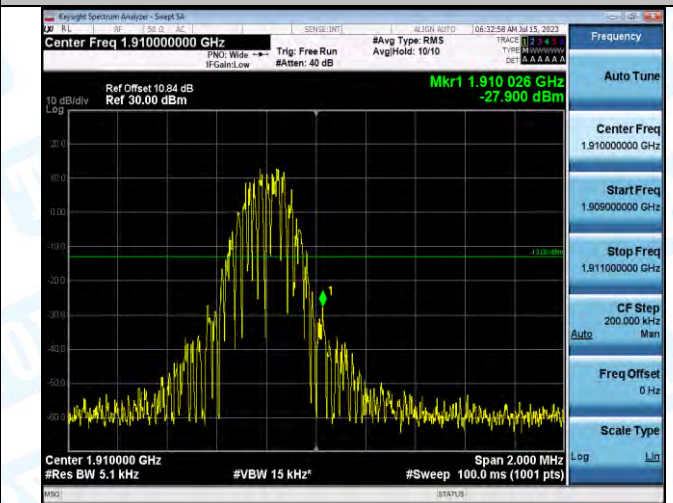
GPRS1900-512-0-PASS



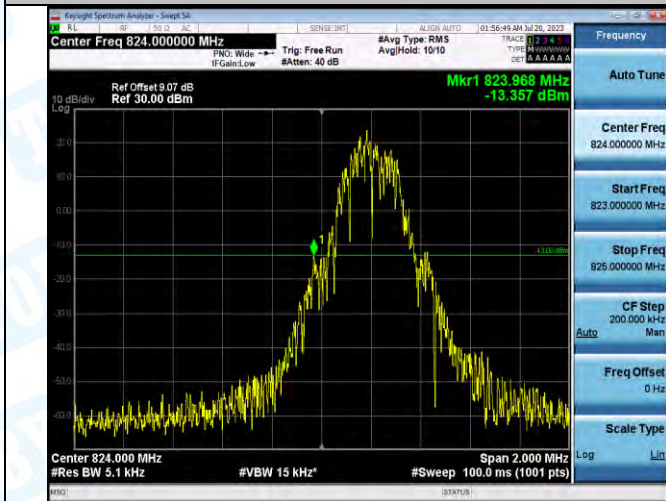
GPRS1900-810-0-PASS



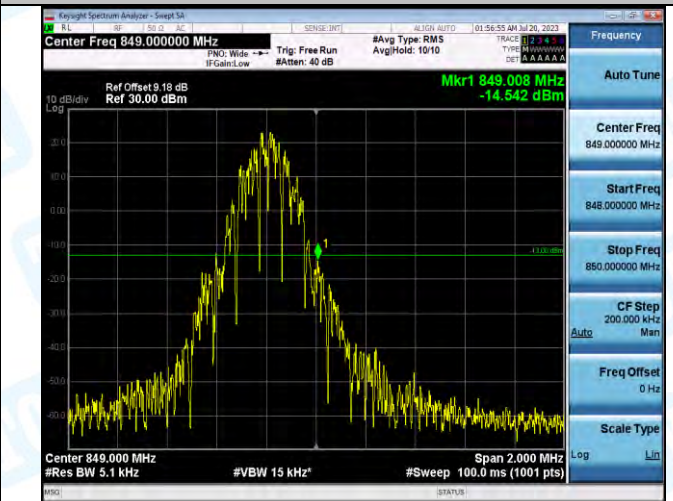
EGPRS1900-512-2-PASS



EGPRS1900-810-2-PASS



GSM850-128-5-PASS



GSM850-251-5-PASS

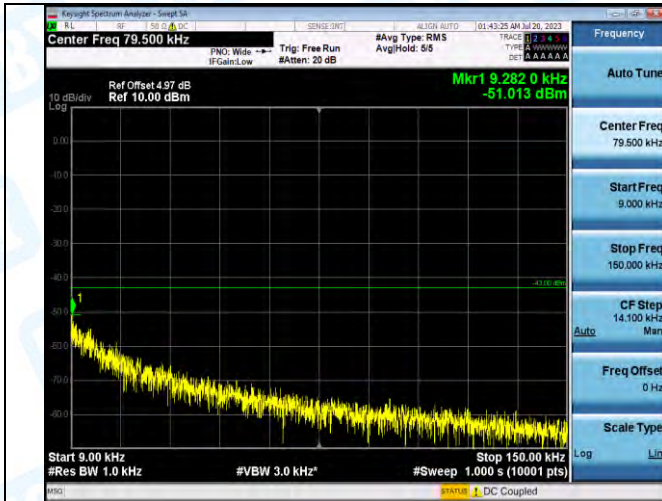
5: Conducted Spurious Emission

Test Result

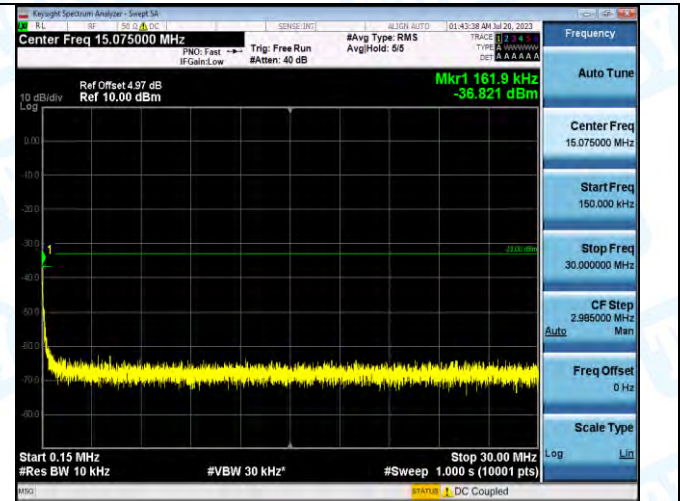
Band	Channel	Frequency Range(MHz)	Max.Freq. (MHz)	Result (dBm)	Limit (dBm)	Verdict
GSM1900	512	0.009~0.15MHz	0.01	-51.01	-43	PASS
GSM1900	512	0.15~30MHz	0.16	-36.82	-33	PASS
GSM1900	512	30~1000MHz	915.25	-44.95	-13	PASS
GSM1900	512	1000~3000MHz	2668.67	-32.93	-13	PASS
GSM1900	512	3000~18000MHz	17762.5	-50.23	-13	PASS
GSM1900	661	0.009~0.15MHz	0.01	-53.24	-43	PASS
GSM1900	661	0.15~30MHz	0.15	-38.87	-33	PASS
GSM1900	661	30~1000MHz	929.61	-44.95	-13	PASS
GSM1900	661	1000~3000MHz	2658.27	-32.9	-13	PASS
GSM1900	661	3000~18000MHz	17736	-50.1	-13	PASS
GSM850	128	0.009~0.15MHz	0.01	-41.98	-33	PASS
GSM850	128	0.15~30MHz	0.15	-38.06	-23	PASS
GSM850	128	30~1000MHz	943.61	-47.43	-13	PASS
GSM850	128	1000~10000MHz	2472.7	-35.7	-13	PASS
GSM850	190	0.009~0.15MHz	0.01	-43.24	-33	PASS
GSM1900	810	0.009~0.15MHz	0.01	-52.15	-43	PASS
GSM1900	810	0.15~30MHz	0.16	-38.55	-33	PASS
GSM1900	810	30~1000MHz	894.69	-45	-13	PASS
GSM1900	810	1000~3000MHz	2644.67	-32.87	-13	PASS
GSM1900	810	3000~18000MHz	17735.5	-50.22	-13	PASS
GSM850	190	0.15~30MHz	0.15	-38.82	-23	PASS
GSM850	190	30~1000MHz	949.2	-47.25	-13	PASS
GSM850	190	1000~10000MHz	2509.9	-37.35	-13	PASS
GSM850	251	0.009~0.15MHz	0.01	-43.1	-33	PASS
GSM850	251	0.15~30MHz	0.15	-38.31	-23	PASS
GSM850	251	30~1000MHz	949.75	-47.31	-13	PASS
GSM850	251	1000~10000MHz	7385.2	-47.75	-13	PASS
GPRS850	128	0.009~0.15MHz	0.01	-43.78	-33	PASS
GPRS850	128	0.15~30MHz	0.15	-38.62	-23	PASS
GPRS850	128	30~1000MHz	945.62	-47.33	-13	PASS
GPRS850	128	1000~10000MHz	1649.2	-45.07	-13	PASS
GPRS850	190	0.009~0.15MHz	0.01	-43.33	-33	PASS
GPRS850	190	0.15~30MHz	0.16	-39.06	-23	PASS
GPRS850	190	30~1000MHz	979.37	-46.97	-13	PASS
GPRS850	190	1000~10000MHz	7361.8	-47.59	-13	PASS
GPRS850	251	0.009~0.15MHz	0.01	-42.94	-33	PASS
GPRS850	251	0.15~30MHz	0.15	-38.97	-23	PASS
GPRS850	251	30~1000MHz	966.54	-47.13	-13	PASS
GPRS850	251	1000~10000MHz	2546.2	-39.57	-13	PASS
EGPRS850	128	0.009~0.15MHz	0.01	-43.28	-33	PASS

EGPRS850	128	0.15~30MHz	0.15	-38.7	-23	PASS
EGPRS850	128	30~1000MHz	932.88	-46.91	-13	PASS
EGPRS850	128	1000~10000MHz	7358.5	-47.84	-13	PASS
EGPRS850	190	0.009~0.15MHz	0.01	-42.55	-33	PASS
EGPRS850	190	0.15~30MHz	0.15	-38.79	-23	PASS
EGPRS850	190	30~1000MHz	426.37	-47.46	-13	PASS
EGPRS850	190	1000~10000MHz	2509.3	-46.6	-13	PASS
EGPRS850	251	0.009~0.15MHz	0.01	-42.42	-33	PASS
EGPRS850	251	0.15~30MHz	0.16	-38.37	-23	PASS
EGPRS850	251	30~1000MHz	963.95	-47.41	-13	PASS
EGPRS850	251	1000~10000MHz	7384.3	-47.65	-13	PASS
GPRS1900	512	0.009~0.15MHz	0.01	-52.23	-43	PASS
GPRS1900	512	0.15~30MHz	0.16	-38.39	-33	PASS
GPRS1900	512	30~1000MHz	921.69	-44.93	-13	PASS
GPRS1900	512	1000~3000MHz	2672.67	-32.67	-13	PASS
GPRS1900	512	3000~18000MHz	17777	-50.14	-13	PASS
GPRS1900	661	0.009~0.15MHz	0.01	-52.37	-43	PASS
GPRS1900	661	0.15~30MHz	0.15	-39.02	-33	PASS
GPRS1900	661	30~1000MHz	859.67	-44.96	-13	PASS
GPRS1900	661	1000~3000MHz	2640.53	-32.82	-13	PASS
GPRS1900	661	3000~18000MHz	17087	-50.06	-13	PASS
GPRS1900	810	0.009~0.15MHz	0.01	-52.85	-43	PASS
GPRS1900	810	0.15~30MHz	0.15	-38.2	-33	PASS
GPRS1900	810	30~1000MHz	934.3	-44.95	-13	PASS
GPRS1900	810	1000~3000MHz	2642.87	-33.04	-13	PASS
GPRS1900	810	3000~18000MHz	17727	-50.15	-13	PASS
EGPRS1900	512	0.009~0.15MHz	0.01	-52.58	-43	PASS
EGPRS1900	512	0.15~30MHz	0.15	-37.62	-33	PASS
EGPRS1900	512	30~1000MHz	932.04	-44.85	-13	PASS
EGPRS1900	512	1000~3000MHz	2648.27	-32.76	-13	PASS
EGPRS1900	512	3000~18000MHz	17802.5	-49.97	-13	PASS
EGPRS1900	661	0.009~0.15MHz	0.01	-53.05	-43	PASS
EGPRS1900	661	0.15~30MHz	0.16	-38.08	-33	PASS
EGPRS1900	661	30~1000MHz	914.83	-45.03	-13	PASS
EGPRS1900	661	1000~3000MHz	2663.53	-32.71	-13	PASS
EGPRS1900	661	3000~18000MHz	17728	-50.12	-13	PASS
EGPRS1900	810	0.009~0.15MHz	0.01	-51.95	-43	PASS
EGPRS1900	810	0.15~30MHz	0.16	-38.06	-33	PASS
EGPRS1900	810	30~1000MHz	943.22	-44.87	-13	PASS
EGPRS1900	810	1000~3000MHz	2653.13	-32.77	-13	PASS
EGPRS1900	810	3000~18000MHz	17097.5	-50.14	-13	PASS

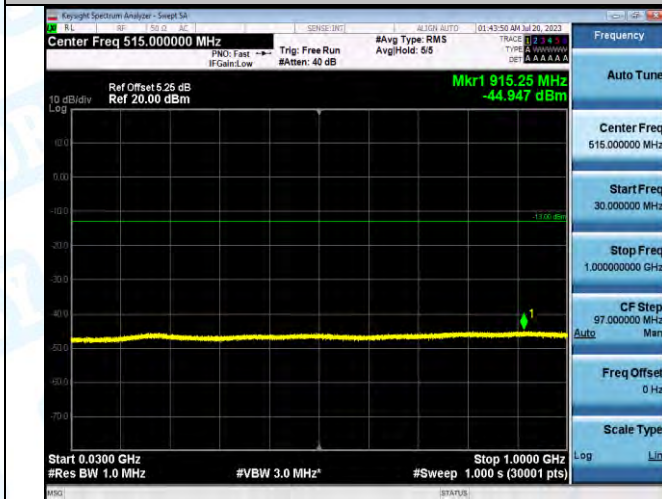
Test Graphs



GSM1900-512-0-0.009~0.15MHz-PASS



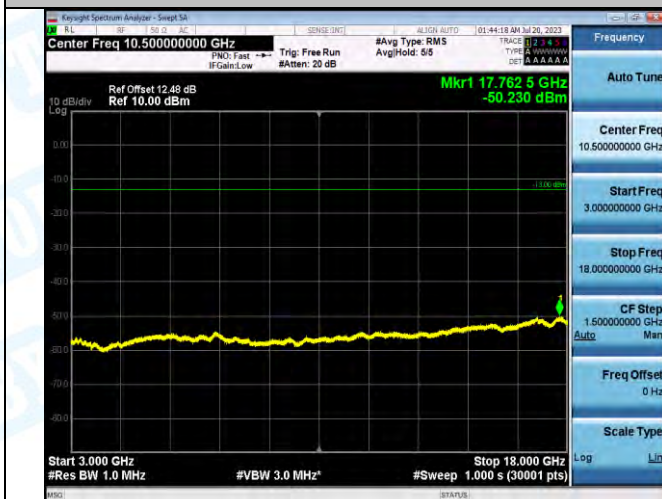
GSM1900-512-0-0.15~30MHz-PASS



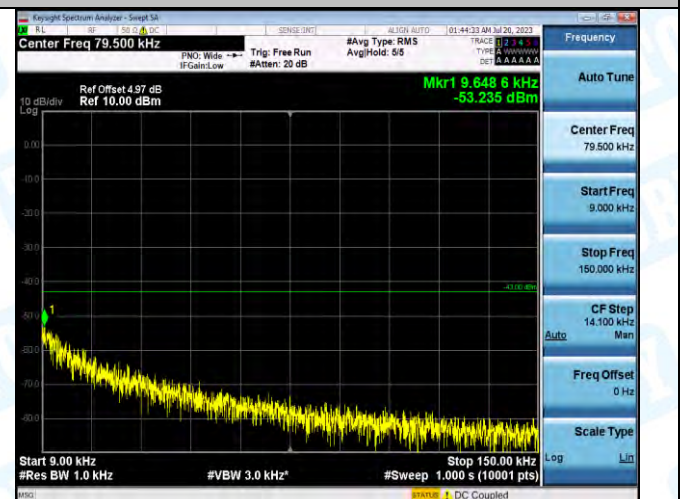
GSM1900-512-0-30~1000MHz-PASS



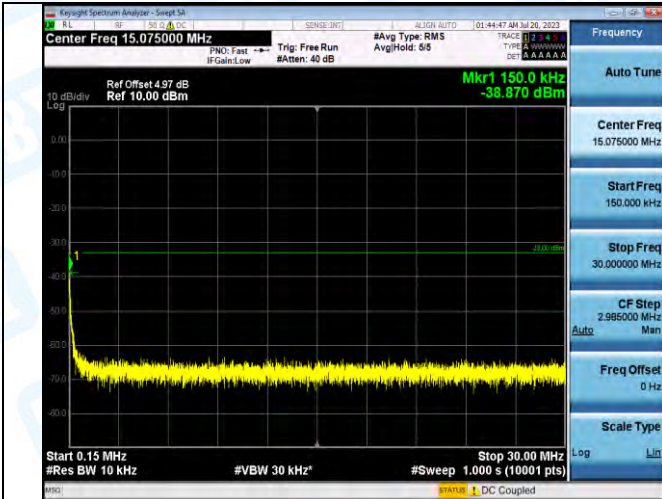
GSM1900-512-0-1000~3000MHz-PASS



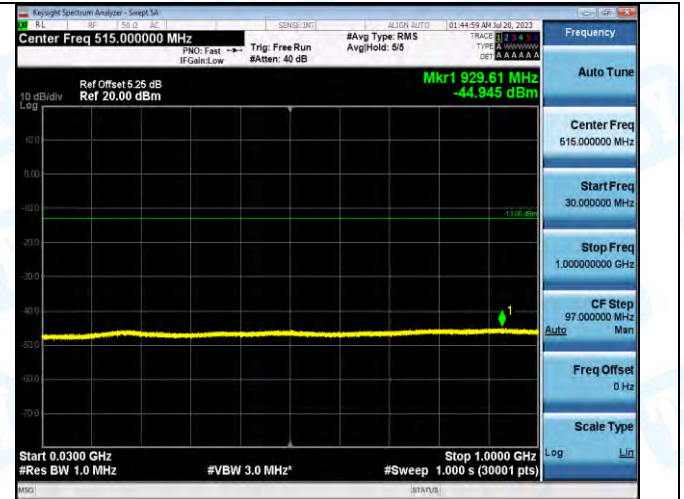
GSM1900-512-0-3000~18000MHz-PASS



GSM1900-661-0-0.009~0.15MHz-PASS



GSM1900-661-0-0.15~30MHz-PASS



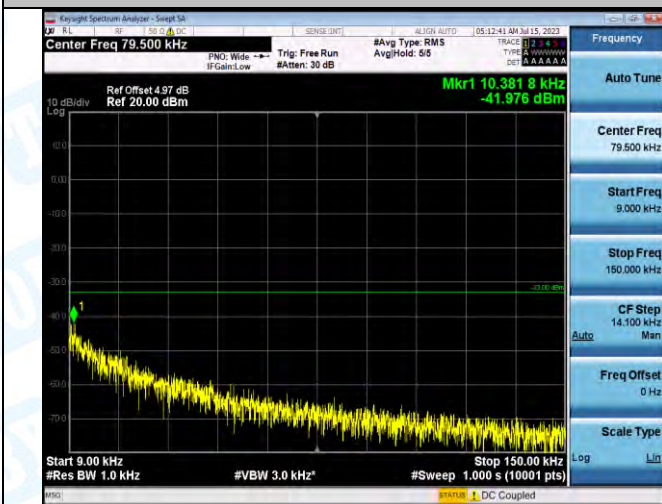
GSM1900-661-0-30~1000MHz-PASS



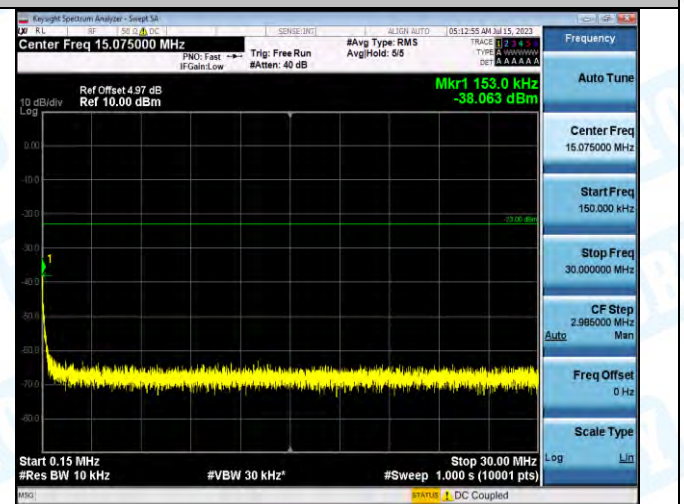
GSM1900-661-0-1000~3000MHz-PASS



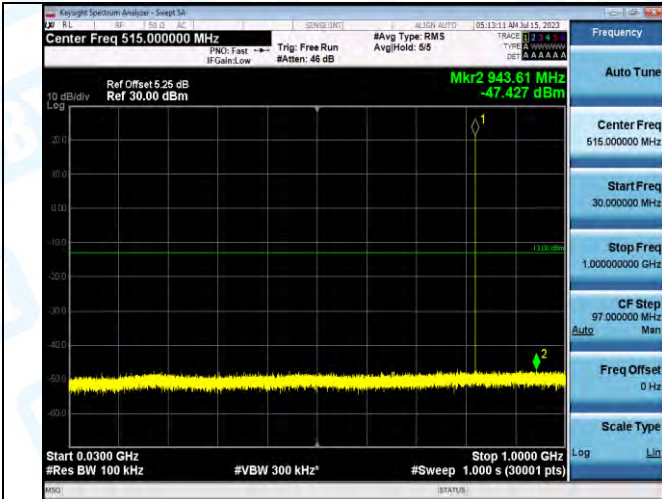
GSM1900-661-0-3000~18000MHz-PASS



GSM850-128-5-0.009~0.15MHz-PASS



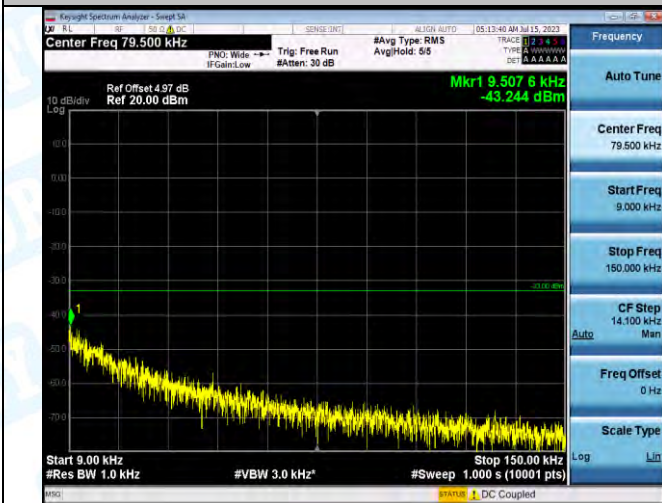
GSM850-128-5-0.15~30MHz-PASS



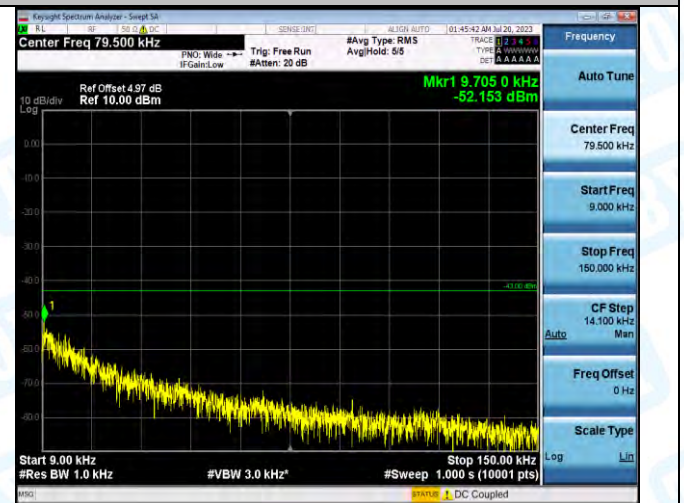
GSM850-128-5-30~1000MHz-PASS



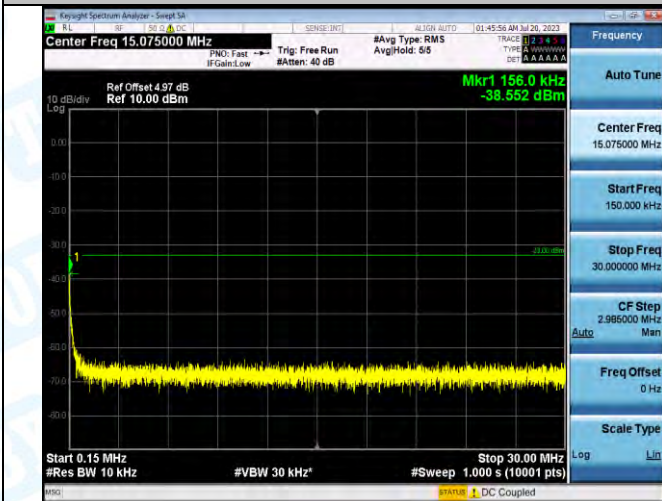
GSM850-128-5-1000~10000MHz-PASS



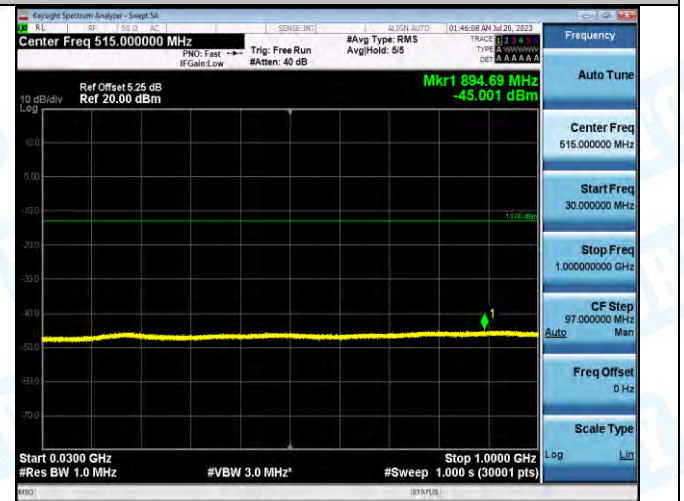
GSM850-190-5-0.009~0.15MHz-PASS



GSM1900-810-0-0.009~0.15MHz-PASS



GSM1900-810-0-0.15~30MHz-PASS



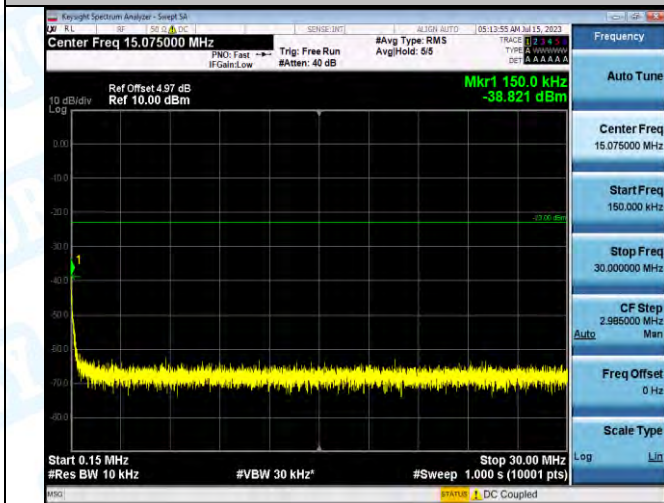
GSM1900-810-0-30~1000MHz-PASS



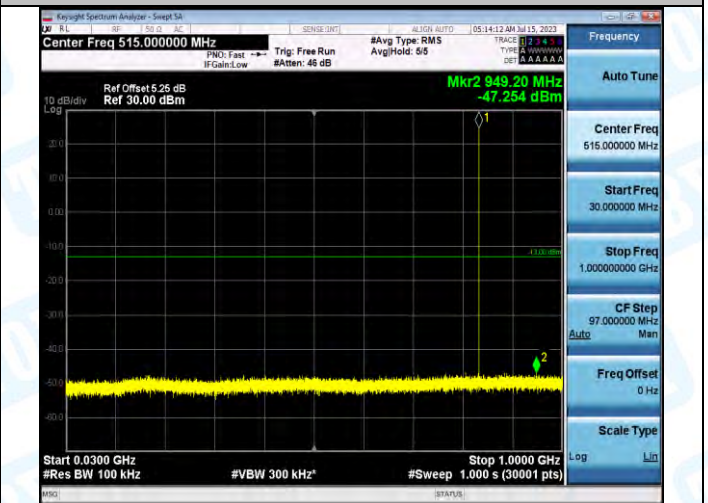
GSM1900-810-0-1000~3000MHz-PASS



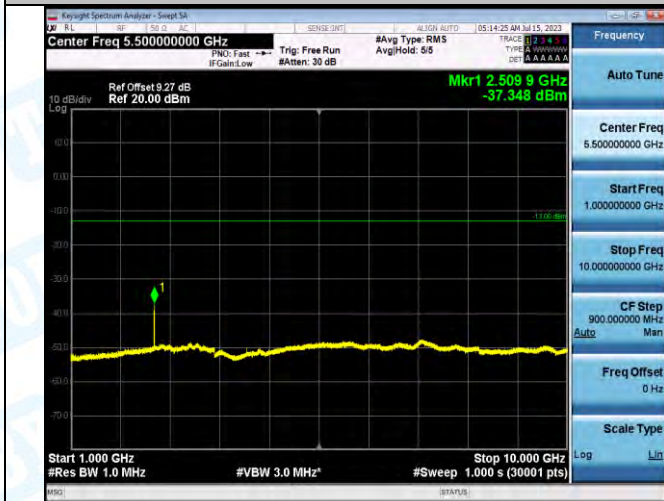
GSM1900-810-0-3000~18000MHz-PASS



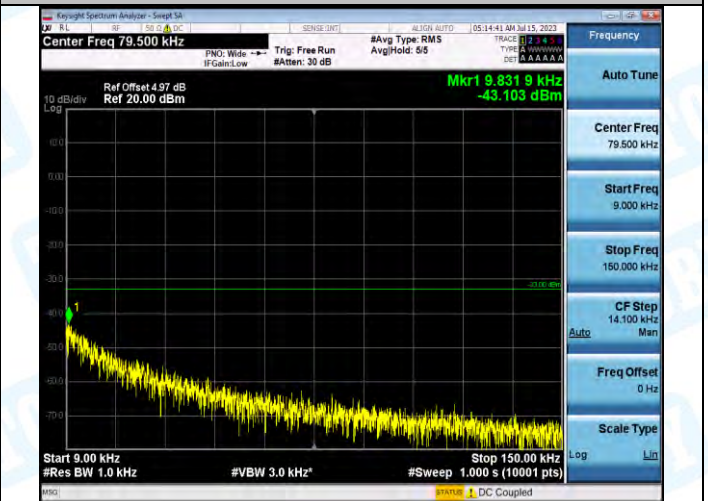
GSM850-190-5-0.15~30MHz-PASS



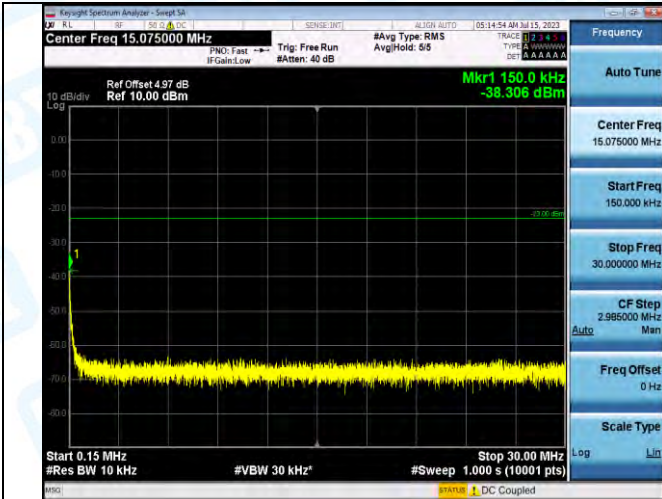
GSM850-190-5-30~1000MHz-PASS



GSM850-190-5-1000~10000MHz-PASS



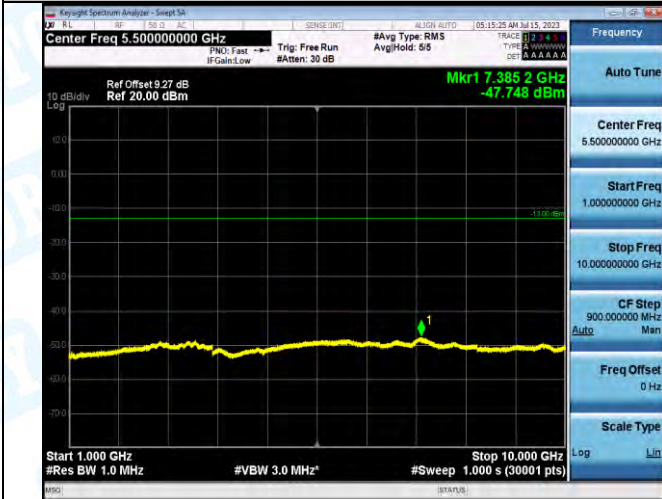
GSM850-251-5-0.009~0.15MHz-PASS



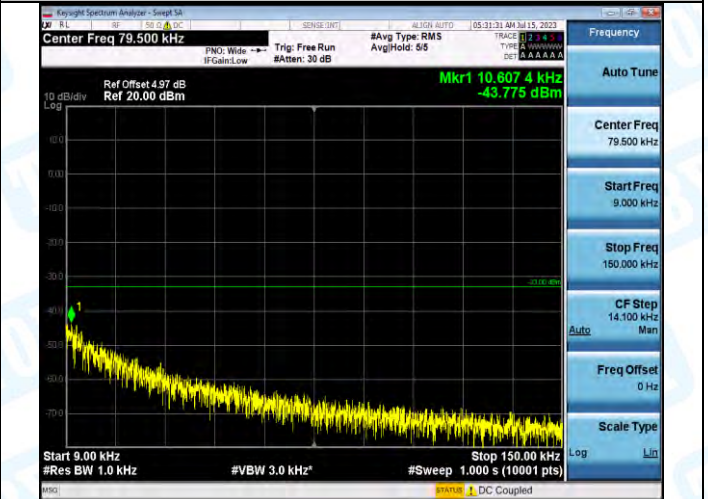
GSM850-251-5-0.15~30MHz-PASS



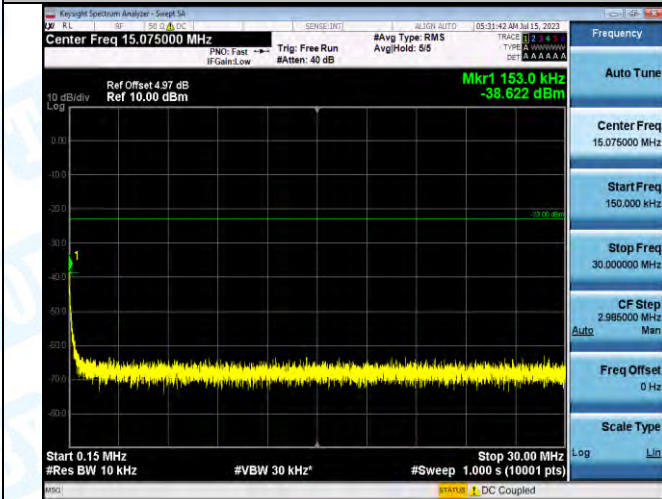
GSM850-251-5-30~1000MHz-PASS



GSM850-251-5-1000~10000MHz-PASS



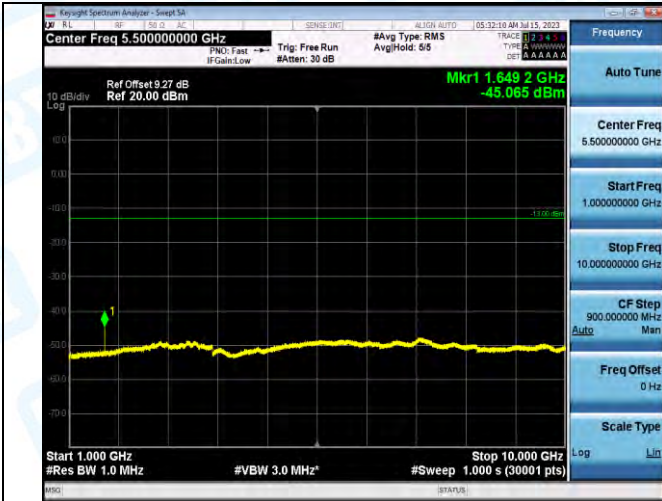
GPRS850-128-5-0.009~0.15MHz-PASS



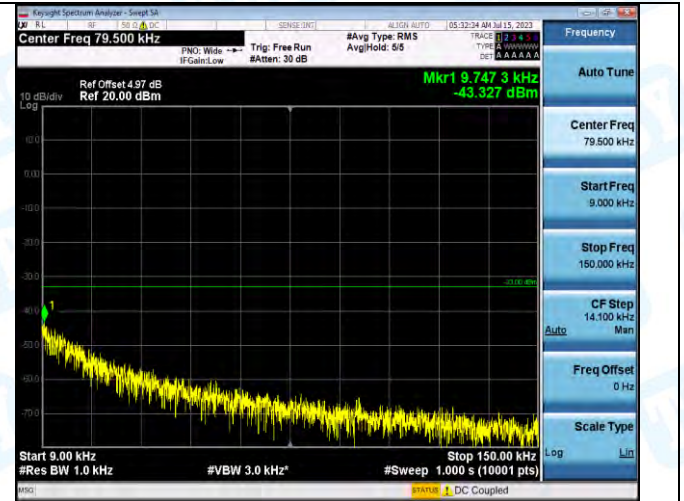
GPRS850-128-5-0.15~30MHz-PASS



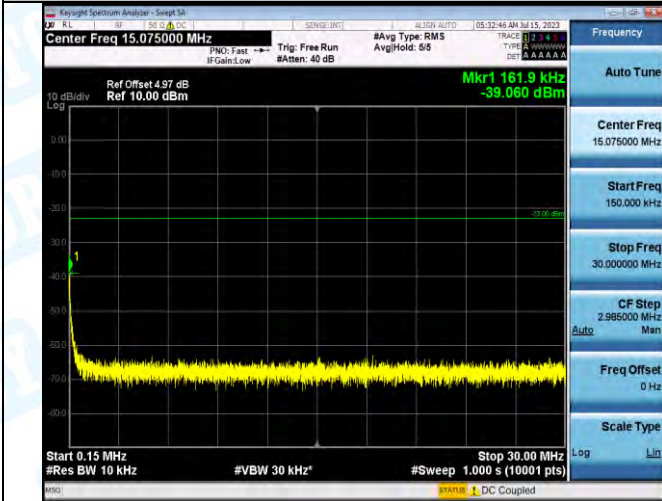
GPRS850-128-5-30~1000MHz-PASS



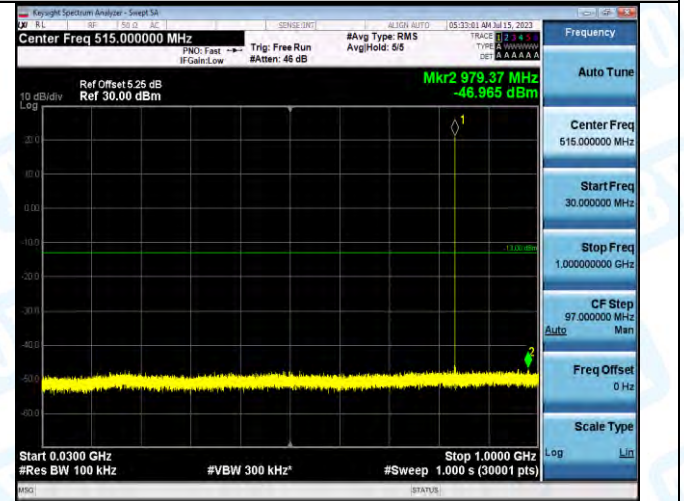
GPRS850-128-5-1000~10000MHz-PASS



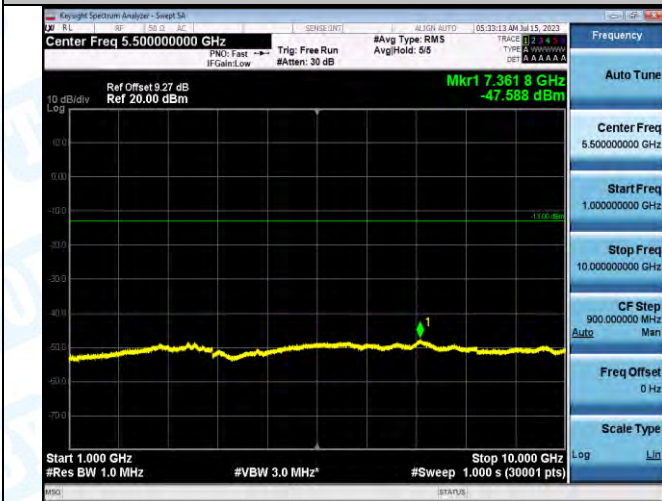
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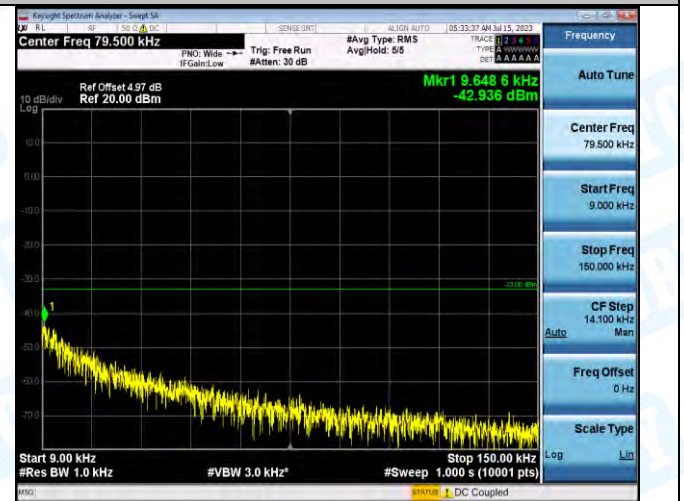
GPRS850-190-5-0.15~30MHz-PASS



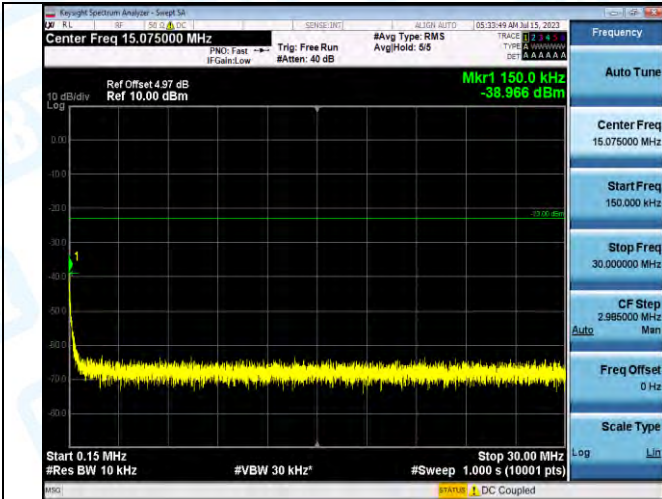
GPRS850-190-5-30~1000MHz-PASS



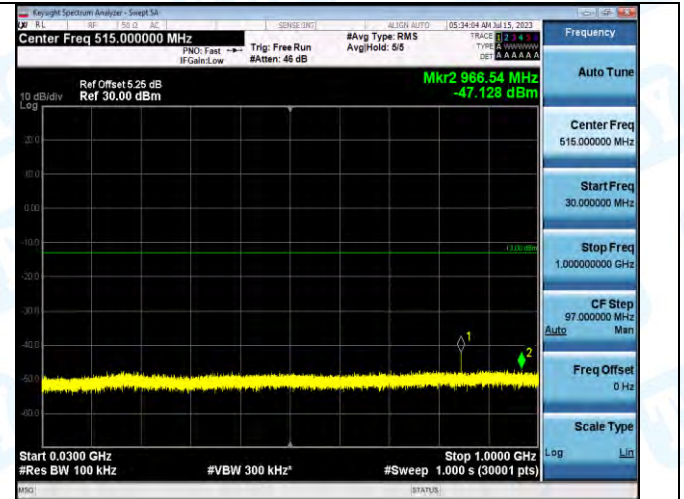
GPRS850-190-5-1000~10000MHz-PASS



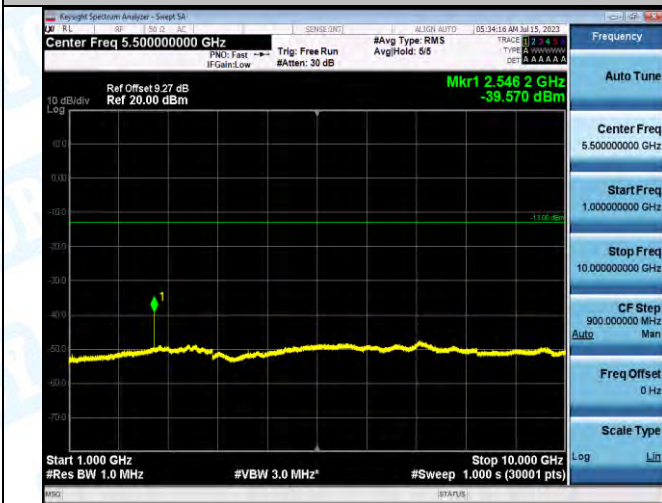
GPRS850-251-5-0.009~0.15MHz-PASS



GPRS850-251-5-0.15~30MHz-PASS



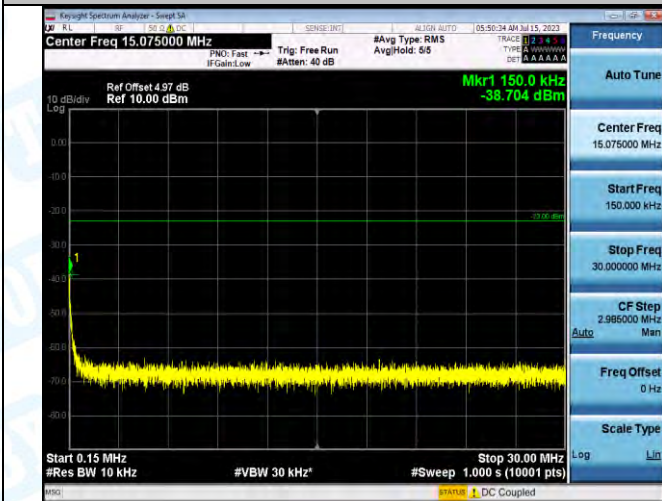
GPRS850-251-5-30~1000MHz-PASS



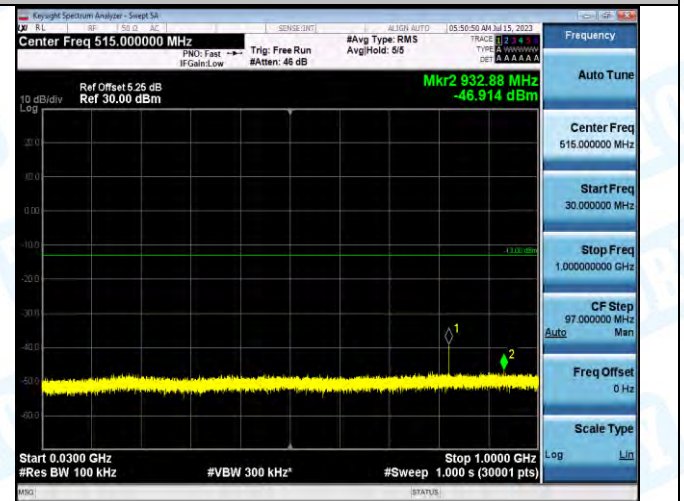
GPRS850-251-5-1000~10000MHz-PASS



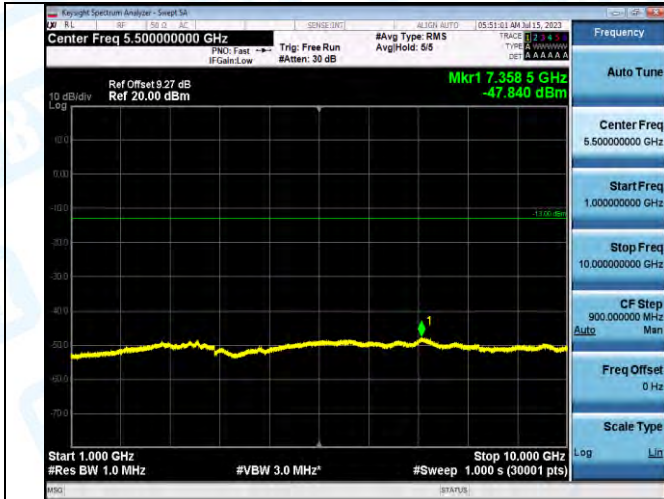
EGPRS850-128-8-0.009~0.15MHz-PASS



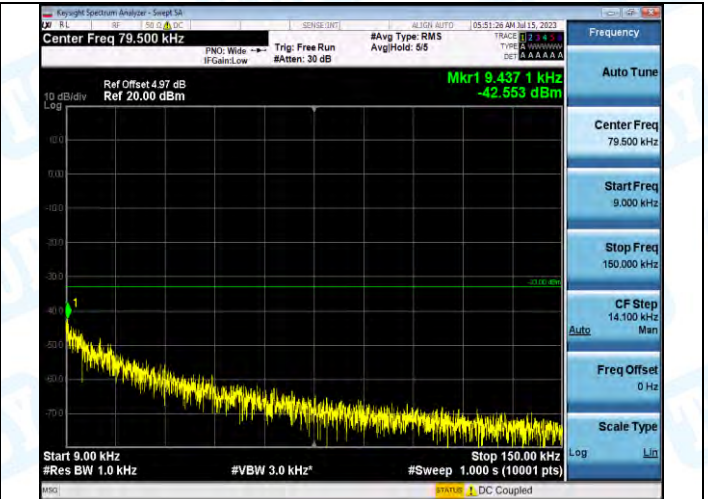
EGPRS850-128-8-0.15~30MHz-PASS



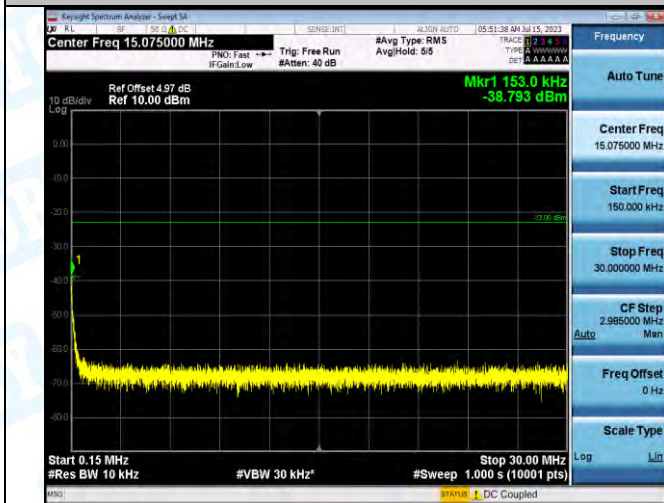
EGPRS850-128-8-30~1000MHz-PASS



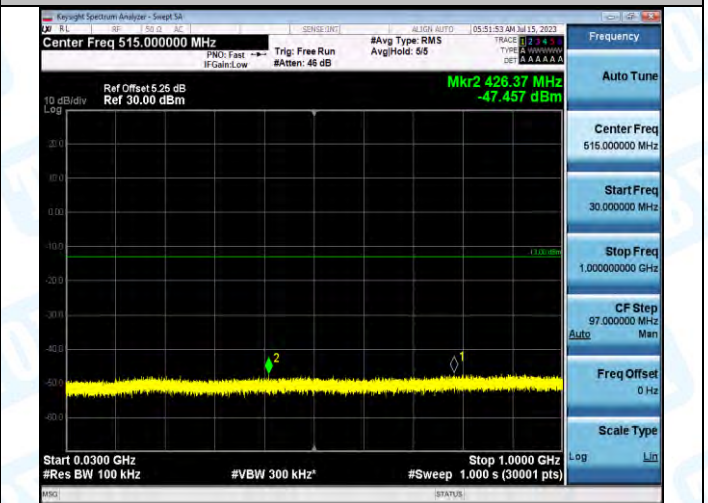
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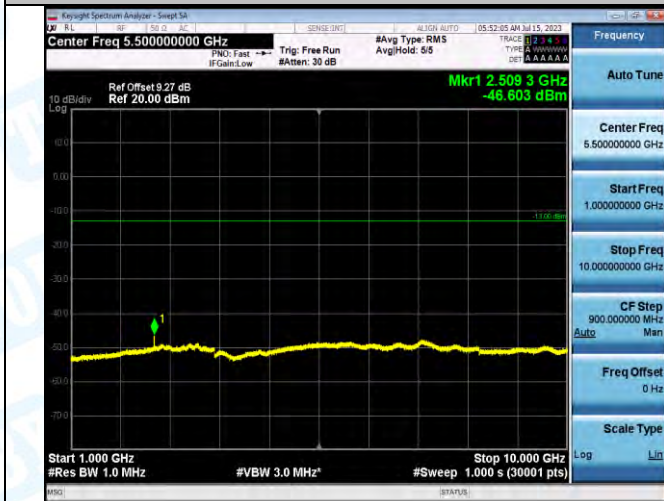
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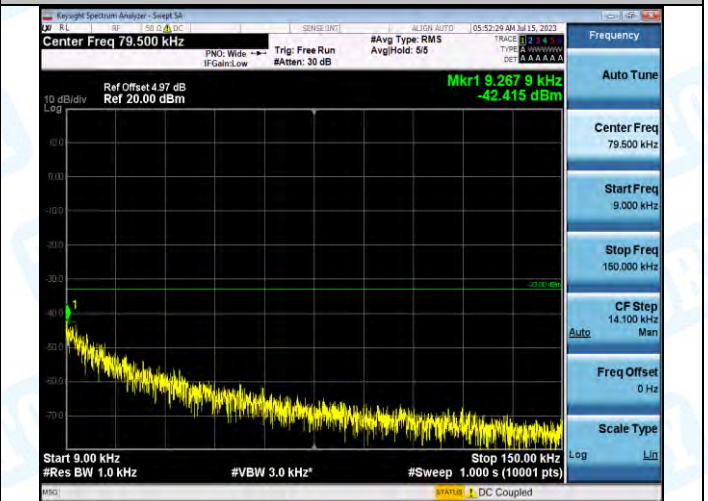
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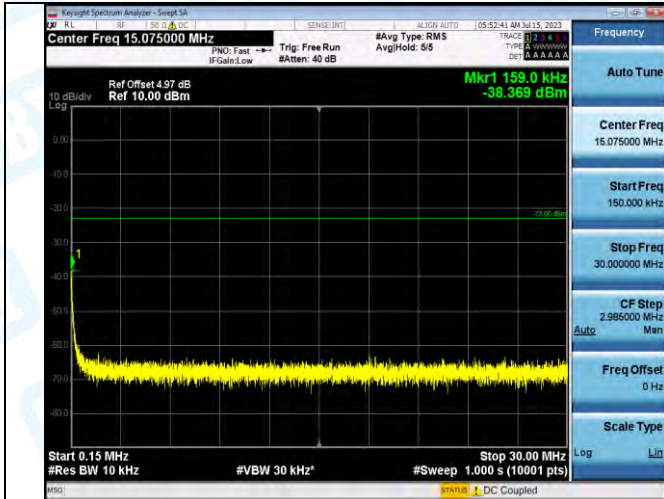
EGPRS850-190-8-30~1000MHz-PASS



EGPRS850-190-8-1000~10000MHz-PASS



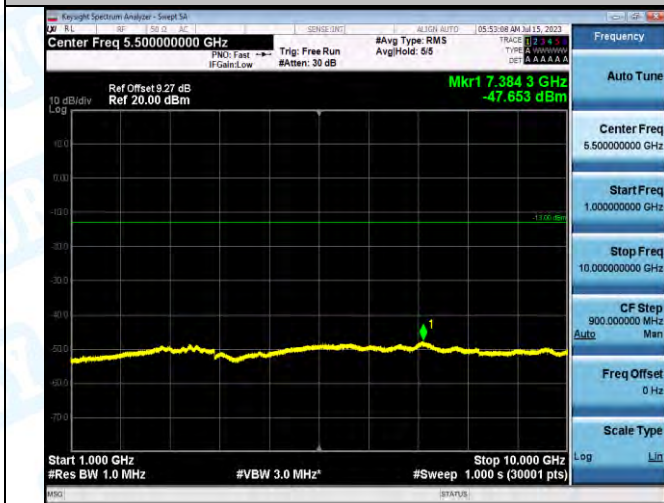
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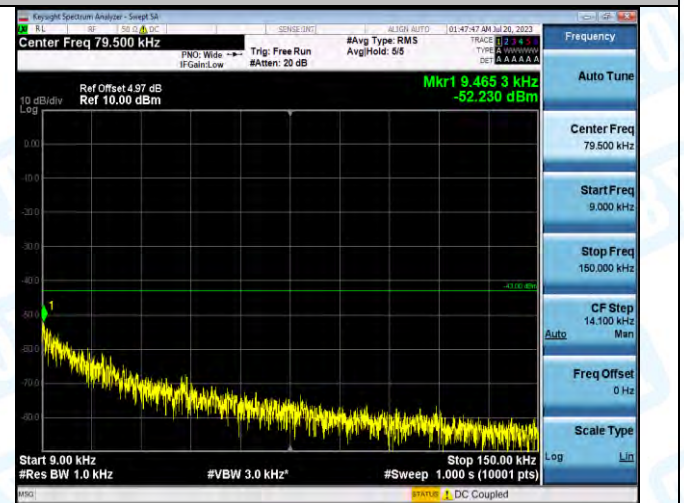
EGPRS850-251-8-0.15~30MHz-PASS



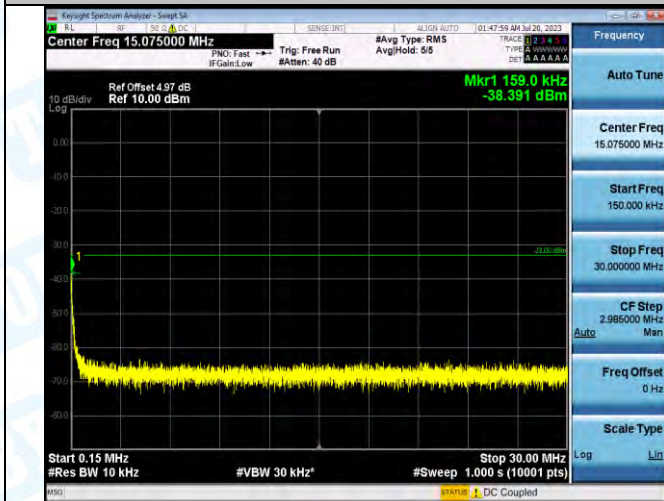
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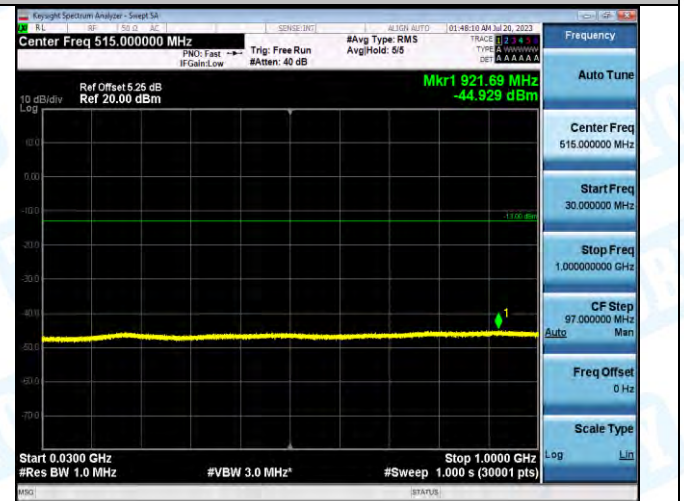
EGPRS850-251-8-1000~10000MHz-PASS



GPRS1900-512-0-0.009~0.15MHz-PASS



GPRS1900-512-0-0.15~30MHz-PASS



GPRS1900-512-0-30~1000MHz-PASS