

Appendix A: Test Data for E-UTRA Band 7

Product Name: Handheld Controller

Trade Mark:  Hi-Target

Test Model: iHand55

A.1: Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	3.82	13	PASS
Band7	5MHz	QPSK	21100	1RB#0	3.84	13	PASS
Band7	5MHz	QPSK	21425	1RB#0	3.48	13	PASS
Band7	5MHz	16QAM	20775	1RB#0	4.61	13	PASS
Band7	5MHz	16QAM	21100	1RB#0	4.67	13	PASS
Band7	5MHz	16QAM	21425	1RB#0	4.39	13	PASS
Band7	10MHz	QPSK	20800	1RB#0	3.96	13	PASS
Band7	10MHz	QPSK	21100	1RB#0	3.82	13	PASS
Band7	10MHz	QPSK	21400	1RB#0	4.08	13	PASS
Band7	10MHz	16QAM	20800	1RB#0	4.90	13	PASS
Band7	10MHz	16QAM	21100	1RB#0	4.82	13	PASS
Band7	10MHz	16QAM	21400	1RB#0	4.94	13	PASS
Band7	15MHz	QPSK	20825	1RB#0	3.65	13	PASS
Band7	15MHz	QPSK	21100	1RB#0	3.49	13	PASS
Band7	15MHz	QPSK	21375	1RB#0	4.13	13	PASS
Band7	15MHz	16QAM	20825	1RB#0	4.53	13	PASS
Band7	15MHz	16QAM	21100	1RB#0	4.42	13	PASS
Band7	15MHz	16QAM	21375	1RB#0	5.08	13	PASS
Band7	20MHz	QPSK	20850	1RB#0	3.52	13	PASS
Band7	20MHz	QPSK	21100	1RB#0	3.41	13	PASS
Band7	20MHz	QPSK	21350	1RB#0	4.22	13	PASS
Band7	20MHz	16QAM	20850	1RB#0	4.82	13	PASS
Band7	20MHz	16QAM	21100	1RB#0	4.32	13	PASS
Band7	20MHz	16QAM	21350	1RB#0	5.16	13	PASS

Test Graphs

Band7-5MHz-QPSK-20775-1RB#0



Band7-5MHz-QPSK-21100-1RB#0



Band7-5MHz-QPSK-21425-1RB#0



Band7-5MHz-16QAM-20775-1RB#0



Band7-5MHz-16QAM-21100-1RB#0



Band7-5MHz-16QAM-21425-1RB#0



Band7-10MHz-QPSK-20800-1RB#0



Band7-10MHz-QPSK-21100-1RB#0



Band7-10MHz-QPSK-21400-1RB#0



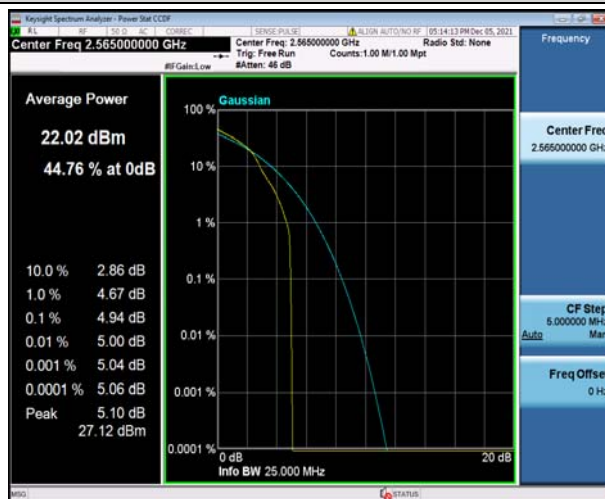
Band7-10MHz-16QAM-20800-1RB#0



Band7-10MHz-16QAM-21100-1RB#0



Band7-10MHz-16QAM-21400-1RB#0



Band7-15MHz-QPSK-20825-1RB#0



Band7-15MHz-QPSK-21100-1RB#0



Band7-15MHz-QPSK-21375-1RB#0



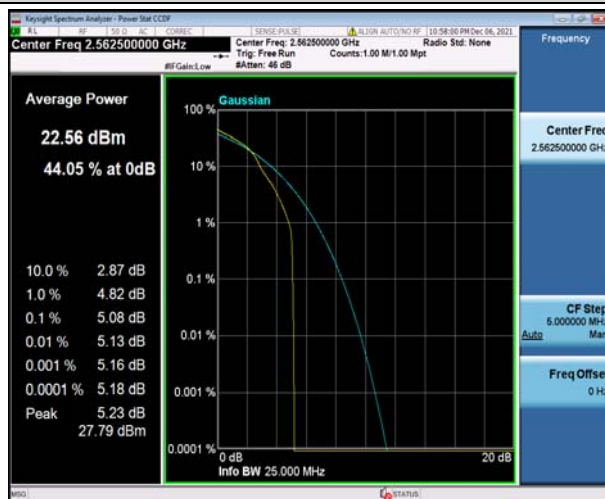
Band7-15MHz-16QAM-20825-1RB#0



Band7-15MHz-16QAM-21100-1RB#0



Band7-15MHz-16QAM-21375-1RB#0



Band7-20MHz-QPSK-20850-1RB#0



Band7-20MHz-QPSK-21100-1RB#0



Band7-20MHz-QPSK-21350-1RB#0



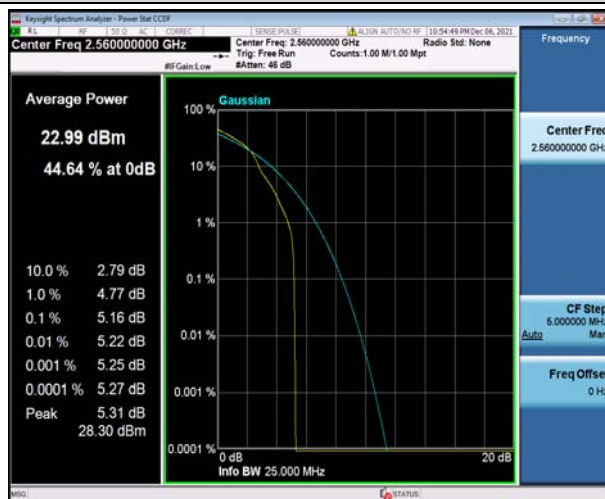
Band7-20MHz-16QAM-20850-1RB#0



Band7-20MHz-16QAM-21100-1RB#0



Band7-20MHz-16QAM-21350-1RB#0



A.2: 26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.5031	4.503	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.5033	4.503	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.5079	4.508	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.5023	4.502	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.5000	4.500	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.5044	4.504	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.9974	8.997	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.9881	8.988	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.9570	8.957	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.9929	8.993	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.9744	8.974	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.9582	8.958	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.512	13.51	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.475	13.47	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.433	13.43	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.520	13.52	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.478	13.48	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.420	13.42	PASS
Band7	20MHz	QPSK	20850	100RB#0	18.006	18.01	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.921	17.92	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.852	17.85	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.984	17.98	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.949	17.95	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.920	17.92	PASS

Test Graphs

Band7-5MHz-QPSK-20775-25RB#0-4.5031



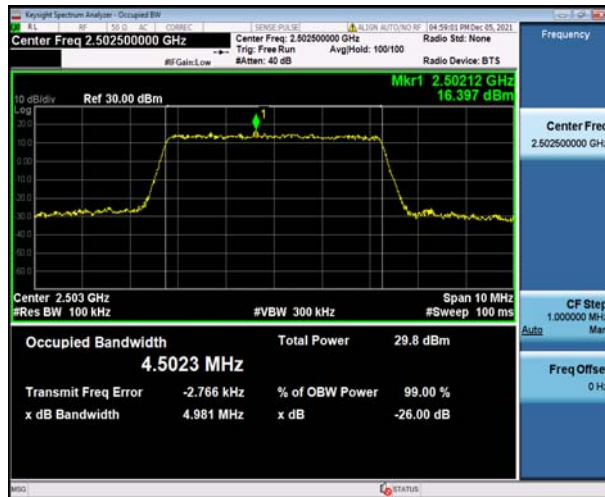
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Band7-5MHz-QPSK-21425-25RB#0-4.5079



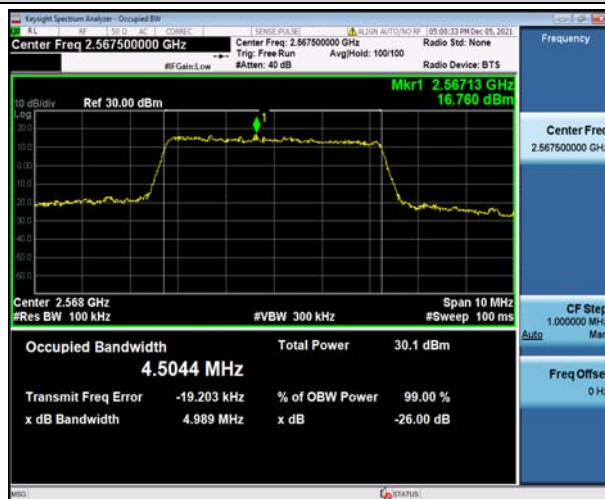
Band7-5MHz-16QAM-20775-25RB#0-4.5023



Band7-5MHz-16QAM-21100-25RB#0-4.5000



Band7-5MHz-16QAM-21425-25RB#0-4.5044



Band7-10MHz-QPSK-20800-50RB#0-8.9974



Band7-10MHz-QPSK-21100-50RB#0-8.9881



Band7-10MHz-QPSK-21400-50RB#0-8.9570



Band7-10MHz-16QAM-20800-50RB#0-8.9929



Band7-10MHz-16QAM-21100-50RB#0-8.9744



Band7-10MHz-16QAM-21400-50RB#0-8.9582



Band7-15MHz-QPSK-20825-75RB#0-13.512



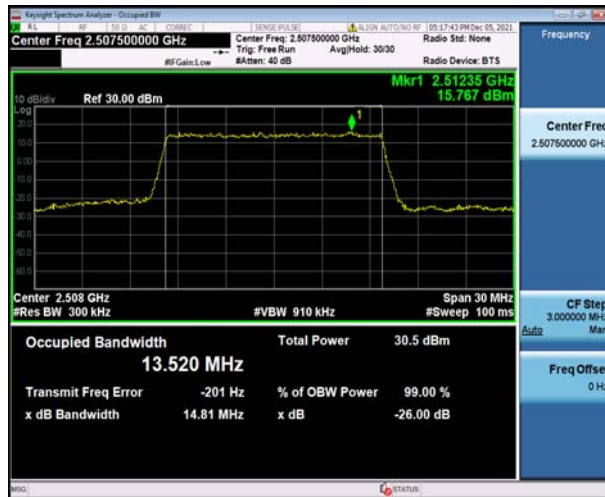
Band7-15MHz-QPSK-21100-75RB#0-13.475



Band7-15MHz-QPSK-21375-75RB#0-13.433



Band7-15MHz-16QAM-20825-75RB#0-13.520



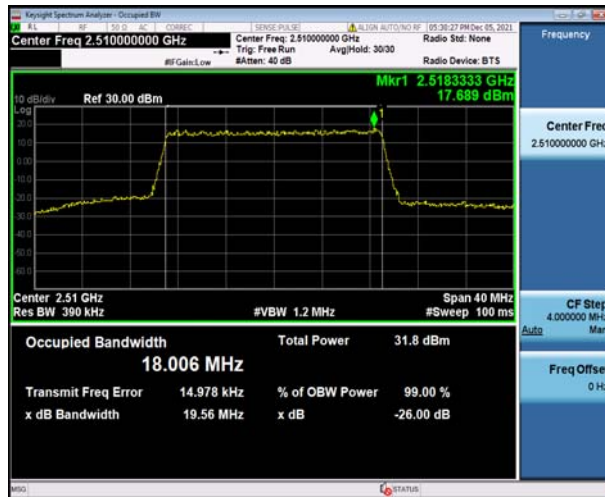
Band7-15MHz-16QAM-21100-75RB#0-13.478



Band7-15MHz-16QAM-21375-75RB#0-13.420



Band7-20MHz-QPSK-20850-100RB#0-18.006



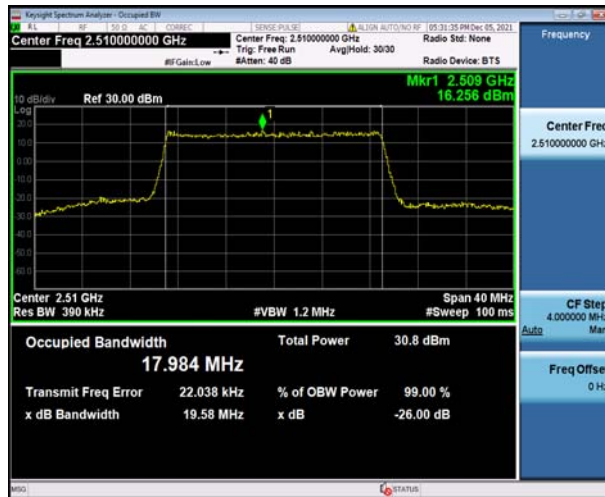
Band7-20MHz-QPSK-21100-100RB#0-17.921



Band7-20MHz-QPSK-21350-100RB#0-17.852



Band7-20MHz-16QAM-20850-100RB#0-17.984



Band7-20MHz-16QAM-21100-100RB#0-17.949



Band7-20MHz-16QAM-21350-100RB#0-17.920



A.3: Band Edge

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	-46.28,-44.39,-35.50,-25.45	PASS
Band7	5MHz	QPSK	21425	25RB#0	-25.28,-31.95,-44.87,-46.05	PASS
Band7	5MHz	16QAM	20775	25RB#0	-47.29,-44.64,-37.72,-27.85	PASS
Band7	5MHz	16QAM	21425	25RB#0	-26.71,-34.08,-45.41,-46.58	PASS
Band7	10MHz	QPSK	20800	50RB#0	-46.04,-33.91,-31.92,-27.45	PASS
Band7	10MHz	QPSK	21400	50RB#0	-30.12,-35.69,-38.85,-44.21	PASS
Band7	10MHz	16QAM	20800	50RB#0	-45.94,-35.49,-33.61,-29.84	PASS
Band7	10MHz	16QAM	21400	50RB#0	-31.83,-37.31,-40.57,-44.65	PASS
Band7	15MHz	QPSK	20825	75RB#0	-40.05,-31.40,-28.77,-26.28	PASS
Band7	15MHz	QPSK	21375	75RB#0	-30.10,-34.88,-36.88,-42.46	PASS
Band7	15MHz	16QAM	20825	75RB#0	-41.48,-32.62,-30.63,-28.94	PASS
Band7	15MHz	16QAM	21375	75RB#0	-33.13,-36.97,-38.82,-42.55	PASS
Band7	20MHz	QPSK	20850	100RB#0	-37.57,-31.22,-29.69,-27.65	PASS
Band7	20MHz	QPSK	21350	100RB#0	-33.37,-36.53,-37.83,-43.26	PASS
Band7	20MHz	16QAM	20850	100RB#0	-39.36,-32.78,-31.48,-30.10	PASS
Band7	20MHz	16QAM	21350	100RB#0	-34.64,-37.67,-38.73,-43.25	PASS

Test Graphs

Band7-5MHz-QPSK-20775-25RB#0



Band7-5MHz-QPSK-21425-25RB#0



Band7-5MHz-16QAM-20775-25RB#0



Band7-5MHz-16QAM-21425-25RB#0



Band7-10MHz-QPSK-20800-50RB#0



Band7-10MHz-QPSK-21400-50RB#0



Band7-10MHz-16QAM-20800-50RB#0



Band7-10MHz-16QAM-21400-50RB#0



Band7-15MHz-QPSK-20825-75RB#0



Band7-15MHz-QPSK-21375-75RB#0



Band7-15MHz-16QAM-20825-75RB#0



Band7-15MHz-16QAM-21375-75RB#0



Band7-20MHz-QPSK-20850-100RB#0



Band7-20MHz-QPSK-21350-100RB#0



Band7-20MHz-16QAM-20850-100RB#0



Band7-20MHz-16QAM-21350-100RB#0



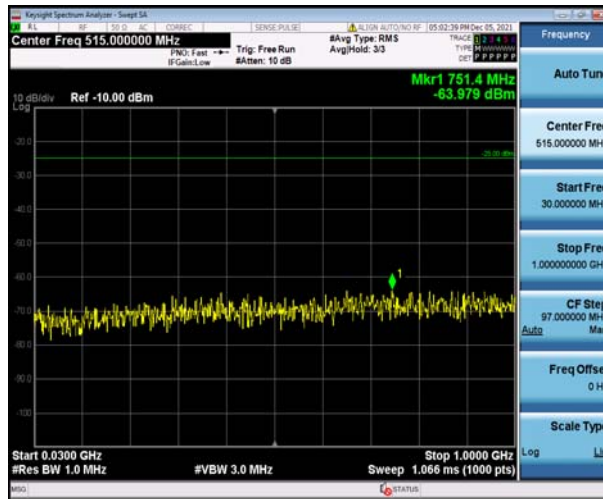
A.4: Conducted Spurious Emission

Test Result

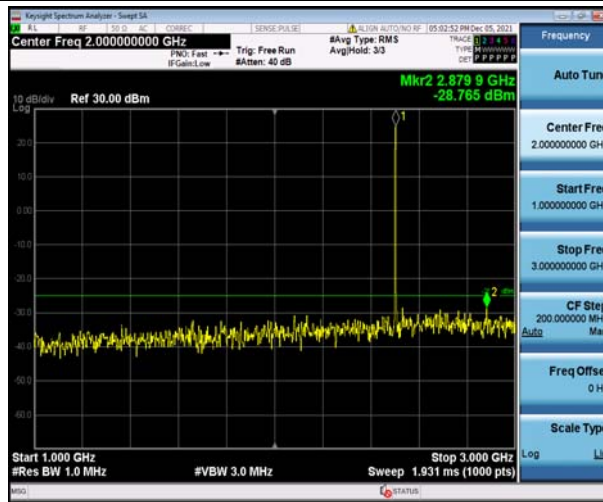
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	Range1:30~1000MHz	-63.98	PASS
Band7	5MHz	QPSK	20775	1RB#0	Range2:1000~3000MHz	-28.77	PASS
Band7	5MHz	QPSK	20775	1RB#0	Range3:3000~26500MHz	-30.23	PASS
Band7	5MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-61.97	PASS
Band7	5MHz	QPSK	21100	1RB#0	Range2:1000~3000MHz	-29.59	PASS
Band7	5MHz	QPSK	21100	1RB#0	Range3:3000~26500MHz	-29.88	PASS
Band7	5MHz	QPSK	21425	1RB#0	Range1:30~1000MHz	-61.02	PASS
Band7	5MHz	QPSK	21425	1RB#0	Range2:1000~3000MHz	-29.66	PASS
Band7	5MHz	QPSK	21425	1RB#0	Range3:3000~26500MHz	-30.17	PASS
Band7	10MHz	QPSK	20800	1RB#0	Range1:30~1000MHz	-59.56	PASS
Band7	10MHz	QPSK	20800	1RB#0	Range2:1000~3000MHz	-28.05	PASS
Band7	10MHz	QPSK	20800	1RB#0	Range3:3000~26500MHz	-28.91	PASS
Band7	10MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-60.81	PASS
Band7	10MHz	QPSK	21100	1RB#0	Range2:1000~3000MHz	-27.75	PASS
Band7	10MHz	QPSK	21100	1RB#0	Range3:3000~26500MHz	-29.58	PASS
Band7	10MHz	QPSK	21400	1RB#0	Range1:30~1000MHz	-55.69	PASS
Band7	10MHz	QPSK	21400	1RB#0	Range2:1000~3000MHz	-27.8	PASS
Band7	10MHz	QPSK	21400	1RB#0	Range3:3000~26500MHz	-29.25	PASS
Band7	15MHz	QPSK	20825	1RB#0	Range1:30~1000MHz	-61.24	PASS
Band7	15MHz	QPSK	20825	1RB#0	Range2:1000~3000MHz	-27.98	PASS
Band7	15MHz	QPSK	20825	1RB#0	Range3:3000~26500MHz	-28.89	PASS
Band7	15MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-60.65	PASS
Band7	15MHz	QPSK	21100	1RB#0	Range2:1000~3000MHz	-27.58	PASS
Band7	15MHz	QPSK	21100	1RB#0	Range3:3000~26500MHz	-28.88	PASS
Band7	15MHz	QPSK	21375	1RB#0	Range1:30~1000MHz	-59.93	PASS
Band7	15MHz	QPSK	21375	1RB#0	Range2:1000~3000MHz	-27.5	PASS
Band7	15MHz	QPSK	21375	1RB#0	Range3:3000~26500MHz	-29.64	PASS
Band7	20MHz	QPSK	20850	1RB#0	Range1:30~1000MHz	-60.79	PASS
Band7	20MHz	QPSK	20850	1RB#0	Range2:1000~3000MHz	-27.81	PASS
Band7	20MHz	QPSK	20850	1RB#0	Range3:3000~26500MHz	-29.03	PASS
Band7	20MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-60.59	PASS
Band7	20MHz	QPSK	21100	1RB#0	Range2:1000~3000MHz	-27.43	PASS
Band7	20MHz	QPSK	21100	1RB#0	Range3:3000~26500MHz	-28.86	PASS
Band7	20MHz	QPSK	21350	1RB#0	Range1:30~1000MHz	-60.34	PASS
Band7	20MHz	QPSK	21350	1RB#0	Range2:1000~3000MHz	-28.22	PASS
Band7	20MHz	QPSK	21350	1RB#0	Range3:3000~26500MHz	-28.46	PASS

Test Graphs

Band7-5MHz-QPSK-20775-1RB#0-Range1:30~1000MHz



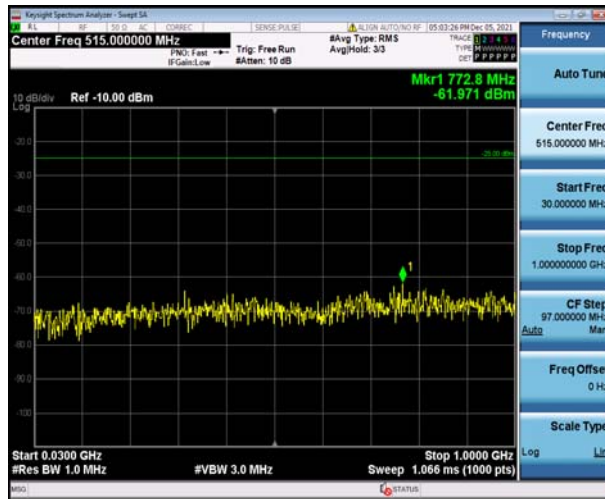
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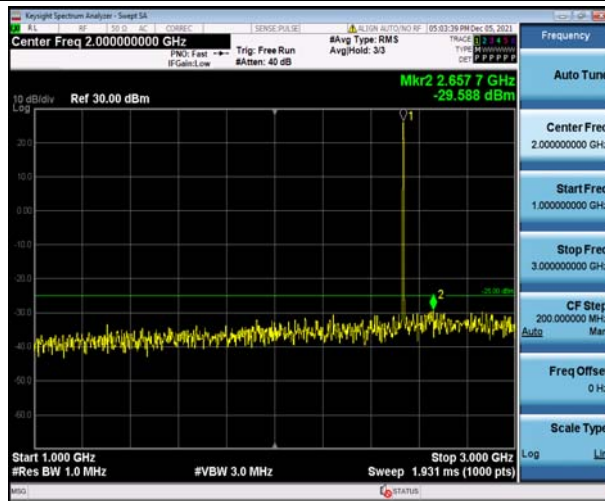
Band7-5MHz-QPSK-20775-1RB#0-Range3:3000~26500MHz



Band7-5MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



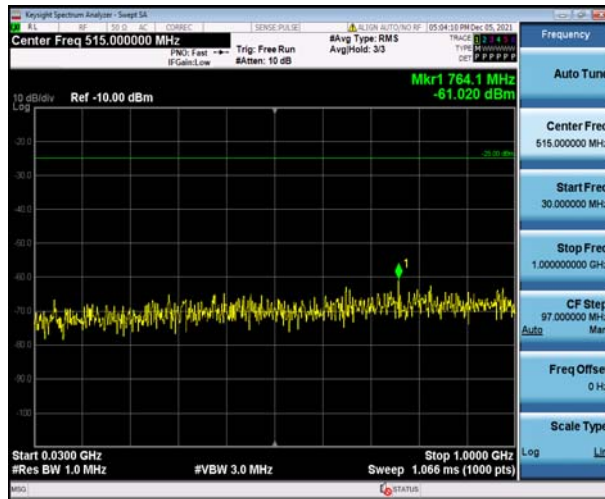
Band7-5MHz-QPSK-21100-1RB#0-Range2:1000~3000MHz



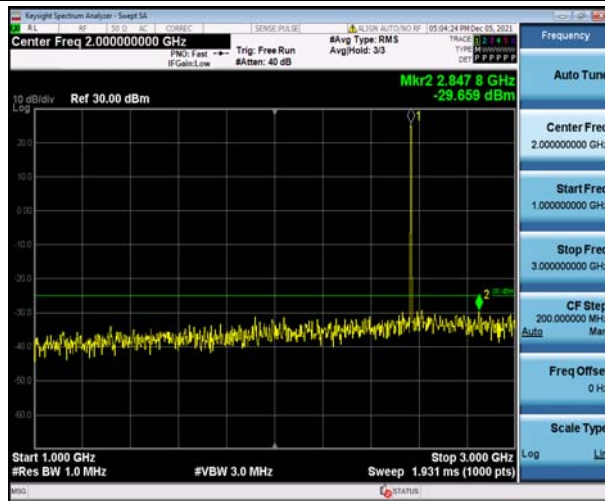
Band7-5MHz-QPSK-21100-1RB#0-Range3:3000~26500MHz



Band7-5MHz-QPSK-21425-1RB#0-Range1:30~1000MHz



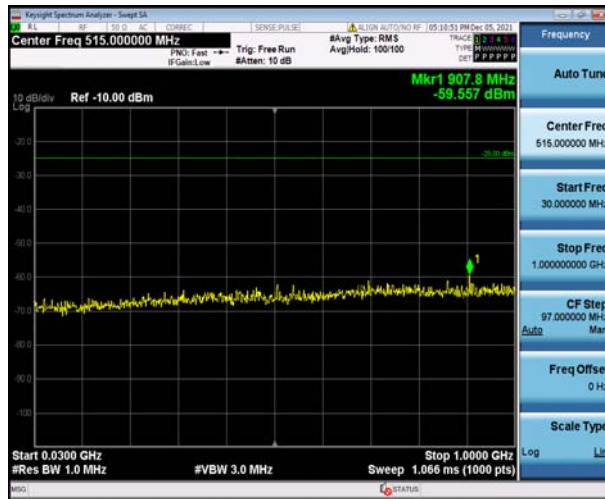
Band7-5MHz-QPSK-21425-1RB#0-Range2:1000~3000MHz



Band7-5MHz-QPSK-21425-1RB#0-Range3:3000~26500MHz



Band7-10MHz-QPSK-20800-1RB#0-Range1:30~1000MHz



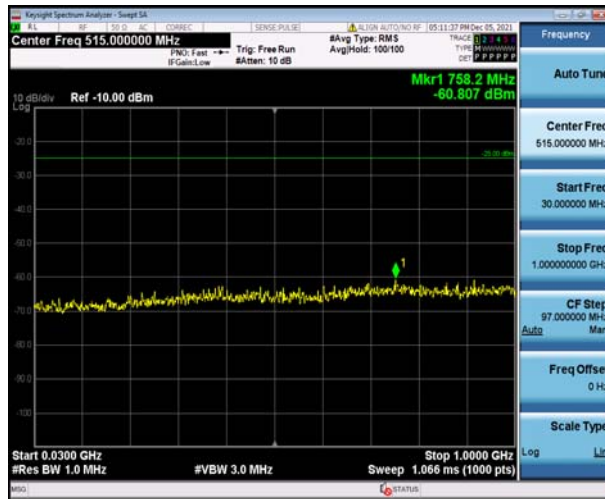
Band7-10MHz-QPSK-20800-1RB#0-Range2:1000~3000MHz



Band7-10MHz-QPSK-20800-1RB#0-Range3:3000~26500MHz



Band7-10MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



Band7-10MHz-QPSK-21100-1RB#0-Range2:1000~3000MHz



Band7-10MHz-QPSK-21100-1RB#0-Range3:3000~26500MHz



Band7-10MHz-QPSK-21400-1RB#0-Range1:30~1000MHz



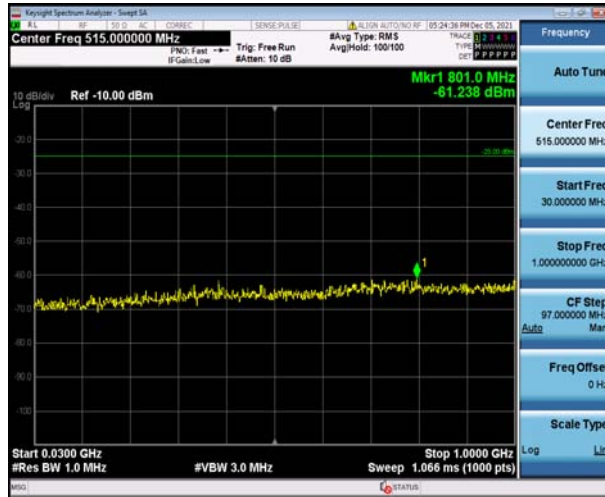
Band7-10MHz-QPSK-21400-1RB#0-Range2:1000~3000MHz



Band7-10MHz-QPSK-21400-1RB#0-Range3:3000~26500MHz



Band7-15MHz-QPSK-20825-1RB#0-Range1:30~1000MHz



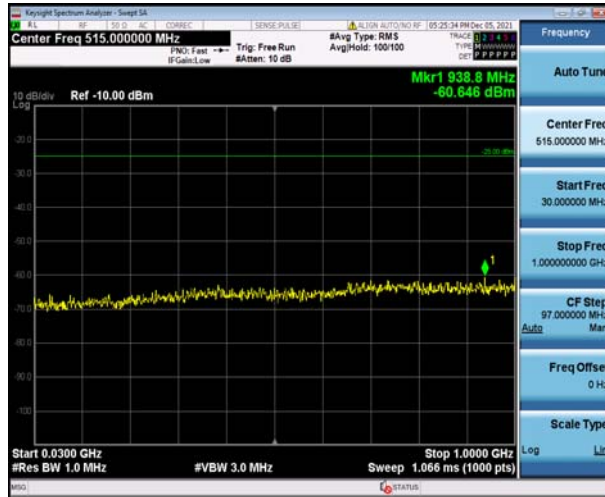
Band7-15MHz-QPSK-20825-1RB#0-Range2:1000~3000MHz



Band7-15MHz-QPSK-20825-1RB#0-Range3:3000~26500MHz



Band7-15MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



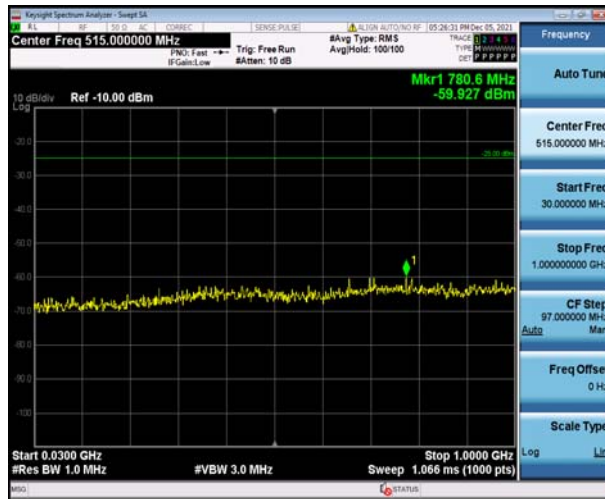
Band7-15MHz-QPSK-21100-1RB#0-Range2:1000~3000MHz



Band7-15MHz-QPSK-21100-1RB#0-Range3:3000~26500MHz



Band7-15MHz-QPSK-21375-1RB#0-Range1:30~1000MHz



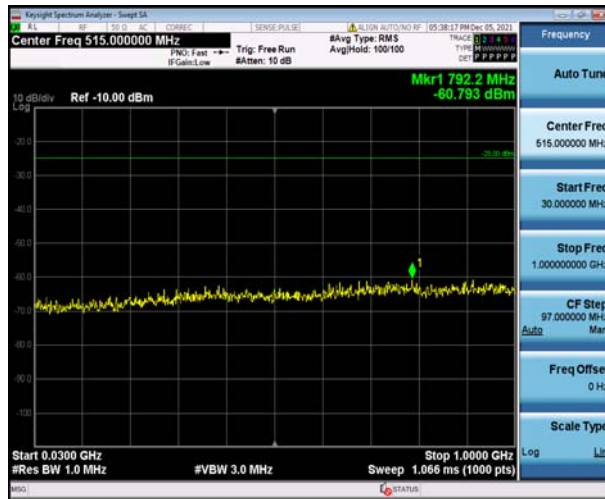
Band7-15MHz-QPSK-21375-1RB#0-Range2:1000~3000MHz



Band7-15MHz-QPSK-21375-1RB#0-Range3:3000~26500MHz



Band7-20MHz-QPSK-20850-1RB#0-Range1:30~1000MHz



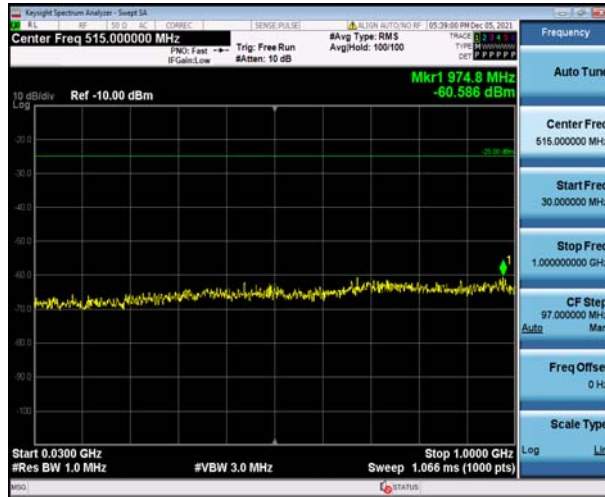
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Band7-20MHz-QPSK-20850-1RB#0-Range3:3000~26500MHz



Band7-20MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



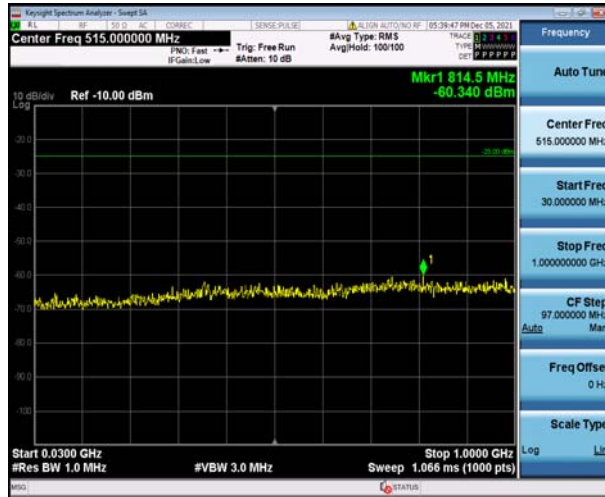
Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~3000MHz



Band7-20MHz-QPSK-21100-1RB#0-Range3:3000~26500MHz



Band7-20MHz-QPSK-21350-1RB#0-Range1:30~1000MHz



Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~3000MHz



Band7-20MHz-QPSK-21350-1RB#0-Range3:3000~26500MHz

