



**BUREAU
VERITAS**

Test Report No.:W7L-P23080017RF06

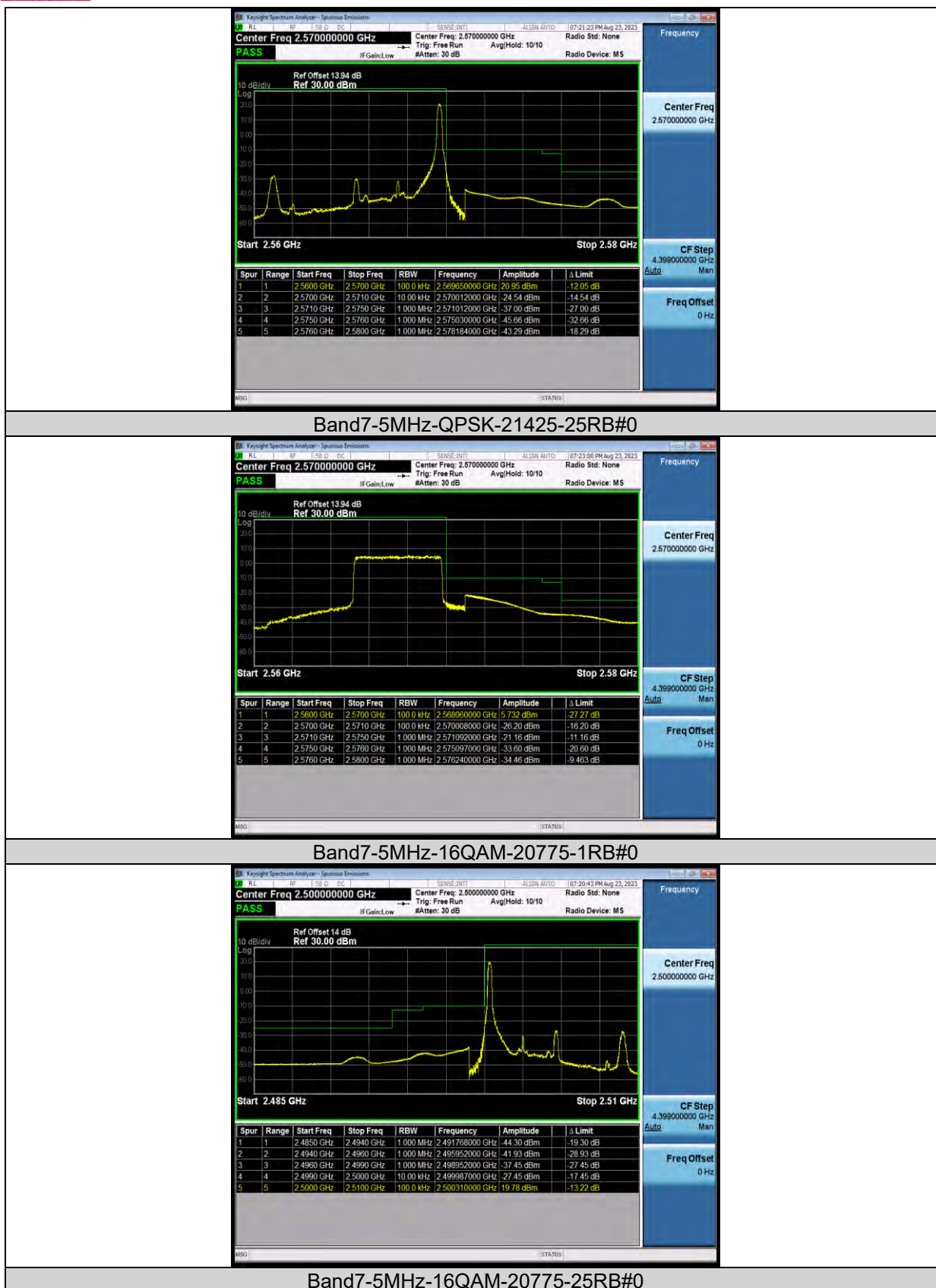
BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	-43.37,-41.54,-37.30,-25.50	PASS
Band7	5MHz	QPSK	20775	25RB#0	-36.59,-31.56,-22.79,-27.60	PASS
Band7	5MHz	QPSK	21425	1RB#24	-24.54,-37.00,-45.66,-43.29	PASS
Band7	5MHz	QPSK	21425	25RB#0	-26.20,-21.16,-33.60,-34.46	PASS
Band7	5MHz	16QAM	20775	1RB#0	-44.30,-41.93,-37.45,-27.45	PASS
Band7	5MHz	16QAM	20775	25RB#0	-36.54,-31.81,-25.22,-30.84	PASS
Band7	5MHz	16QAM	21425	1RB#24	-27.86,-37.46,-45.42,-44.70	PASS
Band7	5MHz	16QAM	21425	25RB#0	-29.21,-24.41,-32.82,-34.38	PASS
Band7	5MHz	64QAM	20775	1RB#0	-44.41,-42.11,-37.64,-26.33	PASS
Band7	5MHz	64QAM	20775	25RB#0	-36.58,-32.03,-25.48,-30.37	PASS
Band7	5MHz	64QAM	21425	1RB#24	-26.59,-37.51,-45.46,-44.40	PASS
Band7	5MHz	64QAM	21425	25RB#0	-29.63,-24.49,-32.83,-34.75	PASS
Band7	10MHz	QPSK	20800	1RB#0	-47.82,-42.07,-39.36,-32.26	PASS
Band7	10MHz	QPSK	20800	50RB#0	-38.96,-28.30,-24.91,-27.45	PASS
Band7	10MHz	QPSK	21400	1RB#49	-31.36,-39.39,-43.99,-48.13	PASS
Band7	10MHz	QPSK	21400	50RB#0	-25.87,-23.01,-27.06,-35.64	PASS
Band7	10MHz	16QAM	20800	1RB#0	-48.09,-42.57,-39.57,-30.49	PASS
Band7	10MHz	16QAM	20800	50RB#0	-38.17,-30.66,-27.89,-30.83	PASS
Band7	10MHz	16QAM	21400	1RB#49	-34.01,-39.84,-44.50,-47.94	PASS
Band7	10MHz	16QAM	21400	50RB#0	-29.10,-26.49,-29.60,-34.97	PASS
Band7	10MHz	64QAM	20800	1RB#0	-48.06,-42.78,-39.76,-34.09	PASS
Band7	10MHz	64QAM	20800	50RB#0	-38.25,-30.76,-27.95,-31.09	PASS
Band7	10MHz	64QAM	21400	1RB#49	-30.68,-39.85,-44.56,-48.04	PASS
Band7	10MHz	64QAM	21400	50RB#0	-29.41,-26.21,-29.53,-34.97	PASS
Band7	15MHz	QPSK	20825	1RB#0	-45.31,-43.02,-39.57,-32.82	PASS
Band7	15MHz	QPSK	20825	75RB#0	-33.49,-27.78,-24.36,-27.60	PASS
Band7	15MHz	QPSK	21375	1RB#74	-32.93,-39.46,-41.90,-48.72	PASS
Band7	15MHz	QPSK	21375	75RB#0	-25.29,-22.73,-24.64,-36.52	PASS
Band7	15MHz	16QAM	20825	1RB#0	-45.69,-43.69,-39.96,-34.75	PASS
Band7	15MHz	16QAM	20825	75RB#0	-35.66,-31.12,-28.26,-31.38	PASS
Band7	15MHz	16QAM	21375	1RB#74	-36.24,-39.98,-42.94,-48.58	PASS
Band7	15MHz	16QAM	21375	75RB#0	-29.16,-26.45,-28.42,-36.22	PASS
Band7	15MHz	64QAM	20825	1RB#0	-45.97,-43.68,-40.05,-35.68	PASS
Band7	15MHz	64QAM	20825	75RB#0	-35.85,-31.20,-28.47,-31.82	PASS
Band7	15MHz	64QAM	21375	1RB#74	-35.07,-40.17,-42.91,-48.47	PASS
Band7	15MHz	64QAM	21375	75RB#0	-29.93,-27.21,-28.65,-36.33	PASS
Band7	20MHz	QPSK	20850	1RB#0	-46.98,-44.56,-42.15,-37.54	PASS
Band7	20MHz	QPSK	20850	100RB#0	-34.28,-30.04,-28.18,-29.87	PASS
Band7	20MHz	QPSK	21350	1RB#99	-37.41,-41.80,-43.92,-48.96	PASS
Band7	20MHz	QPSK	21350	100RB#0	-28.36,-26.28,-27.96,-40.61	PASS
Band7	20MHz	16QAM	20850	1RB#0	-47.26,-44.75,-42.48,-38.46	PASS
Band7	20MHz	16QAM	20850	100RB#0	-36.34,-32.68,-31.31,-33.01	PASS
Band7	20MHz	16QAM	21350	1RB#99	-37.92,-42.43,-44.30,-48.99	PASS
Band7	20MHz	16QAM	21350	100RB#0	-31.64,-29.51,-30.53,-39.14	PASS
Band7	20MHz	64QAM	20850	1RB#0	-47.30,-44.79,-42.49,-37.47	PASS
Band7	20MHz	64QAM	20850	100RB#0	-36.35,-32.79,-31.06,-33.07	PASS
Band7	20MHz	64QAM	21350	1RB#99	-38.27,-42.22,-44.30,-49.00	PASS
Band7	20MHz	64QAM	21350	100RB#0	-31.80,-29.77,-30.67,-39.33	PASS

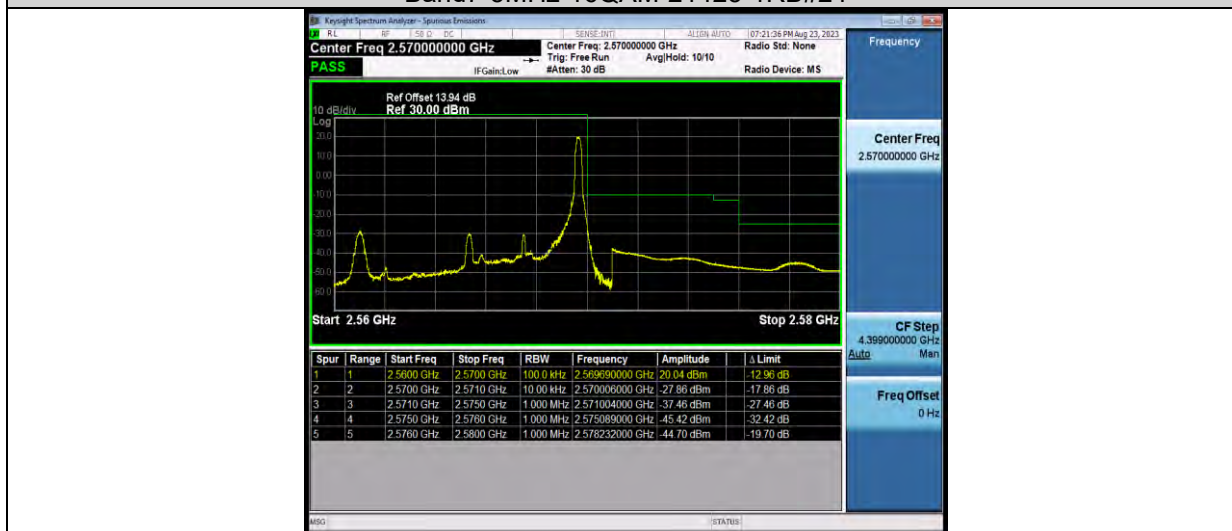
Test Graphs







Band7-5MHz-16QAM-21425-1RB#24



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



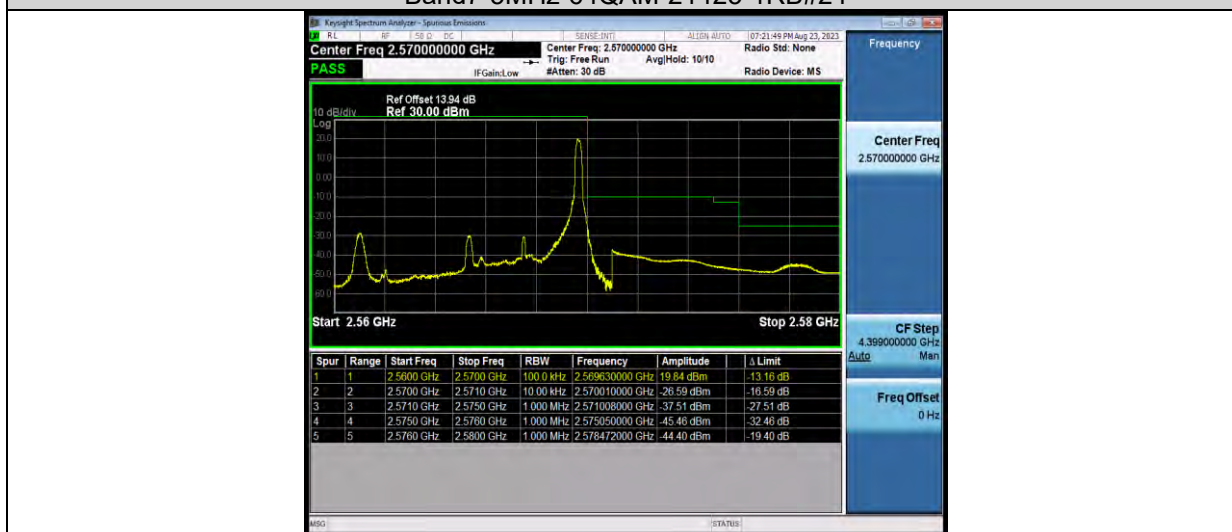
Band7-5MHz-64QAM-20775-1RB#0



Band7-5MHz-64QAM-20775-25RB#0



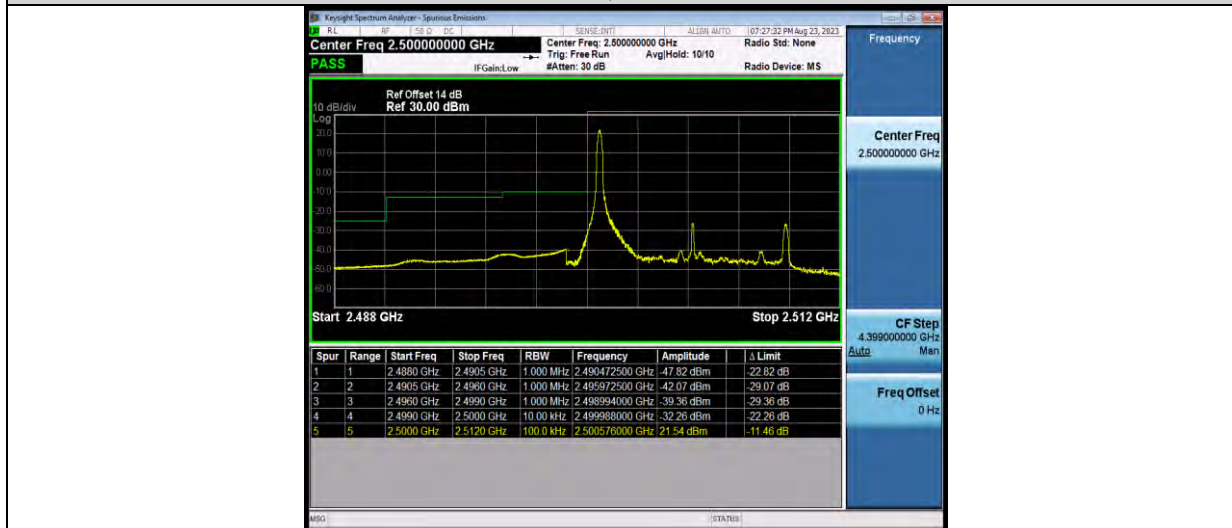
Band7-5MHz-64QAM-21425-1RB#24



Band7-5MHz-64QAM-21425-25RB#0



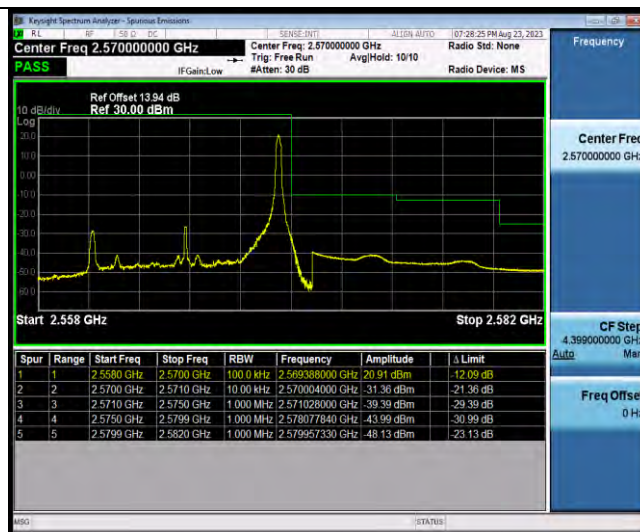
Band7-10MHz-QPSK-20800-1RB#0



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



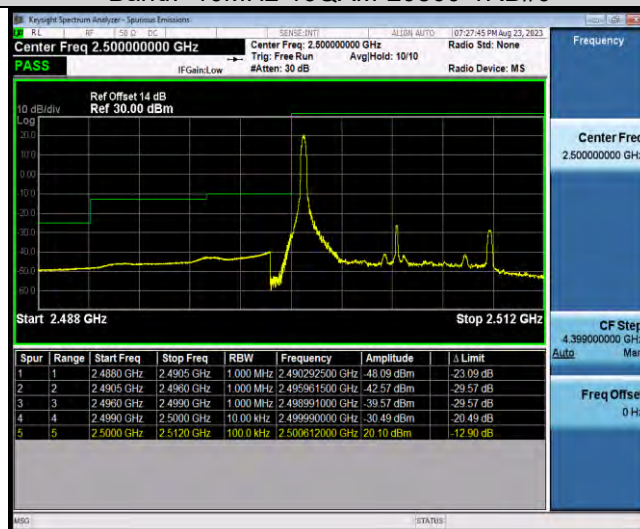
Band7-10MHz-QPSK-21400-1RB#49



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



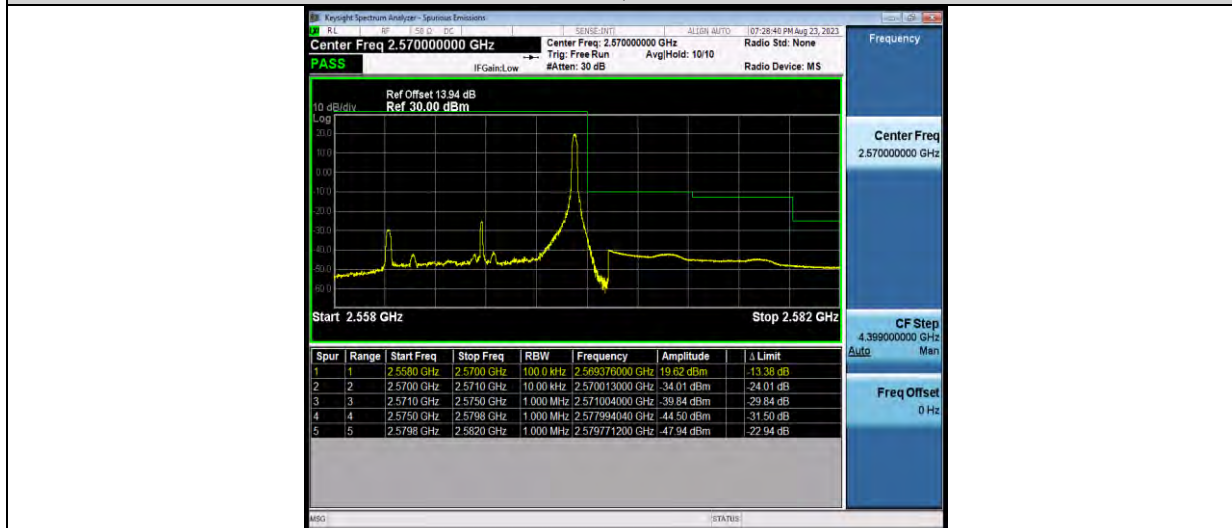
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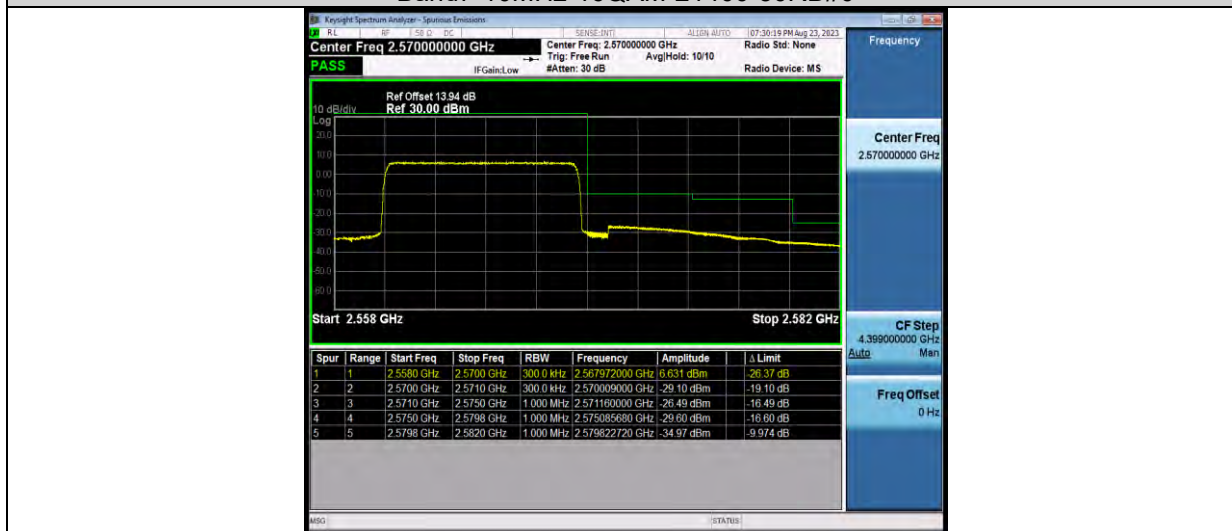
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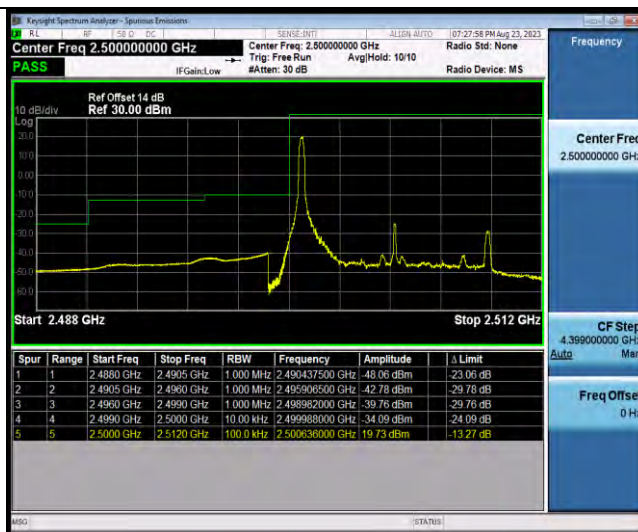
Band7-10MHz-16QAM-21400-1RB#49



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



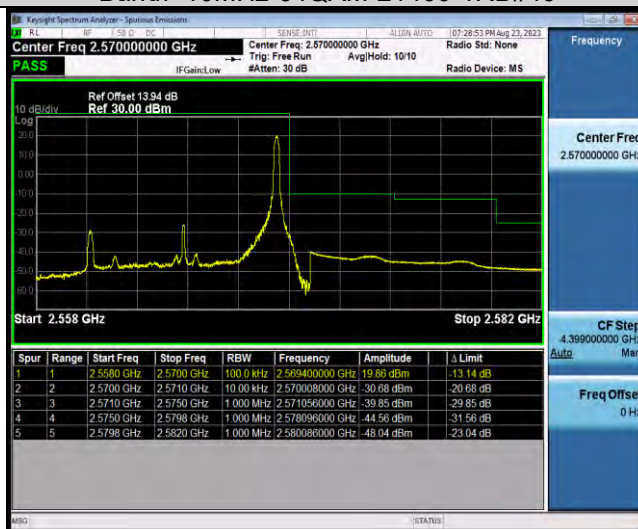
Band7-10MHz-64QAM-20800-1RB#0



Band7-10MHz-64QAM-20800-50RB#0



Band7-10MHz-64QAM-21400-1RB#49



Band7-10MHz-64QAM-21400-50RB#0



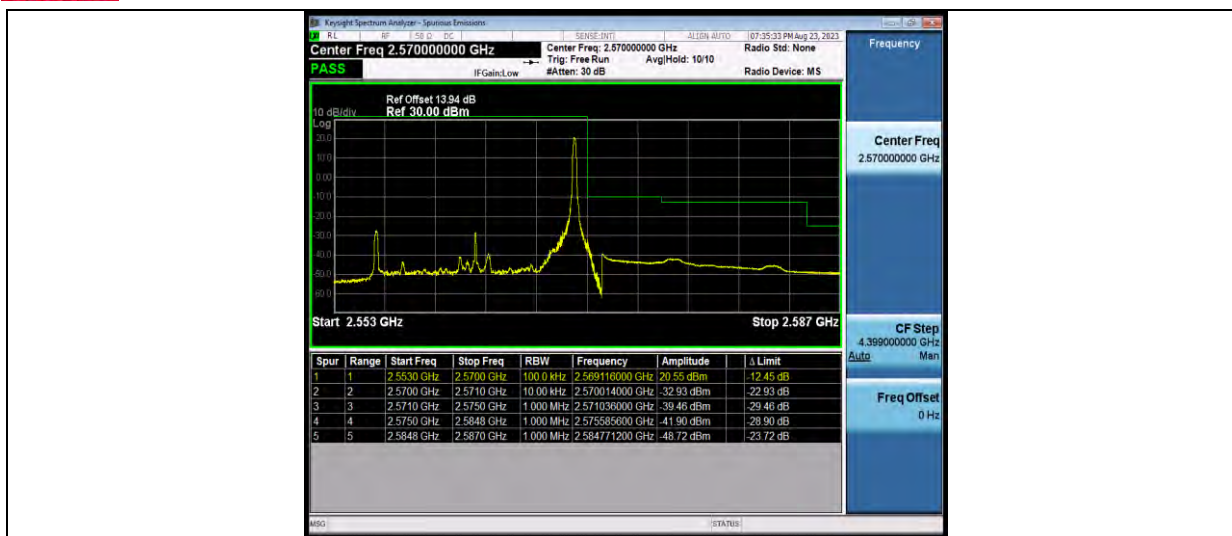
Band7-15MHz-QPSK-20825-1RB#0



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



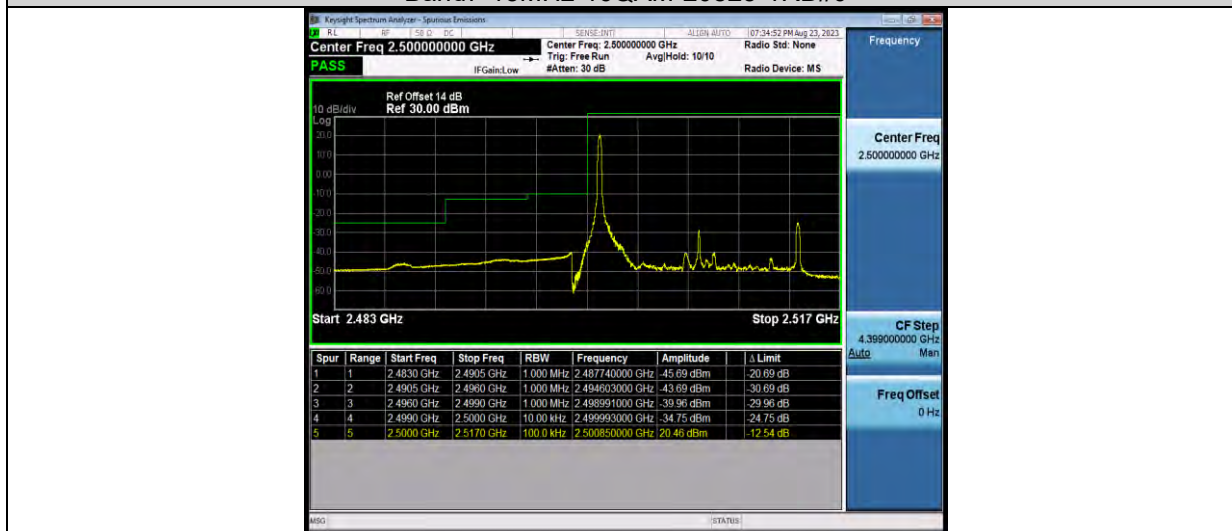
Band7-15MHz-QPSK-21375-1RB#74



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



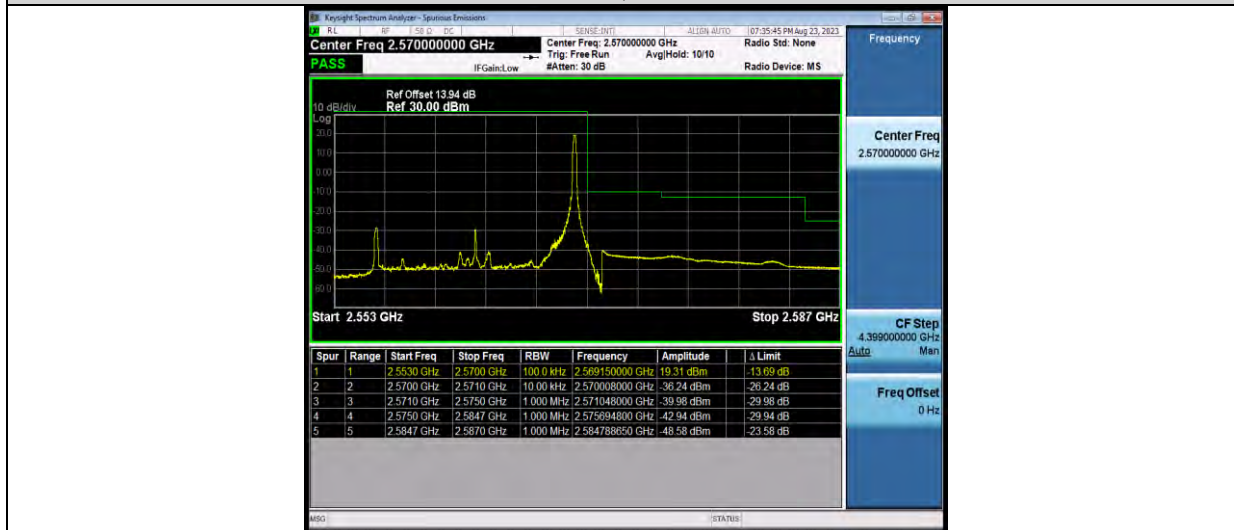
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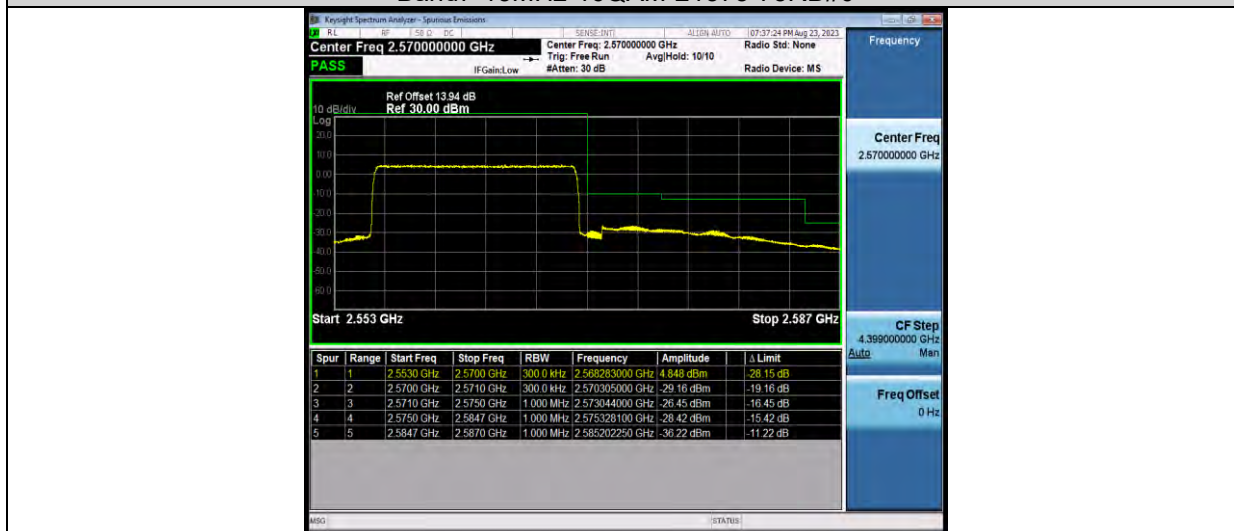
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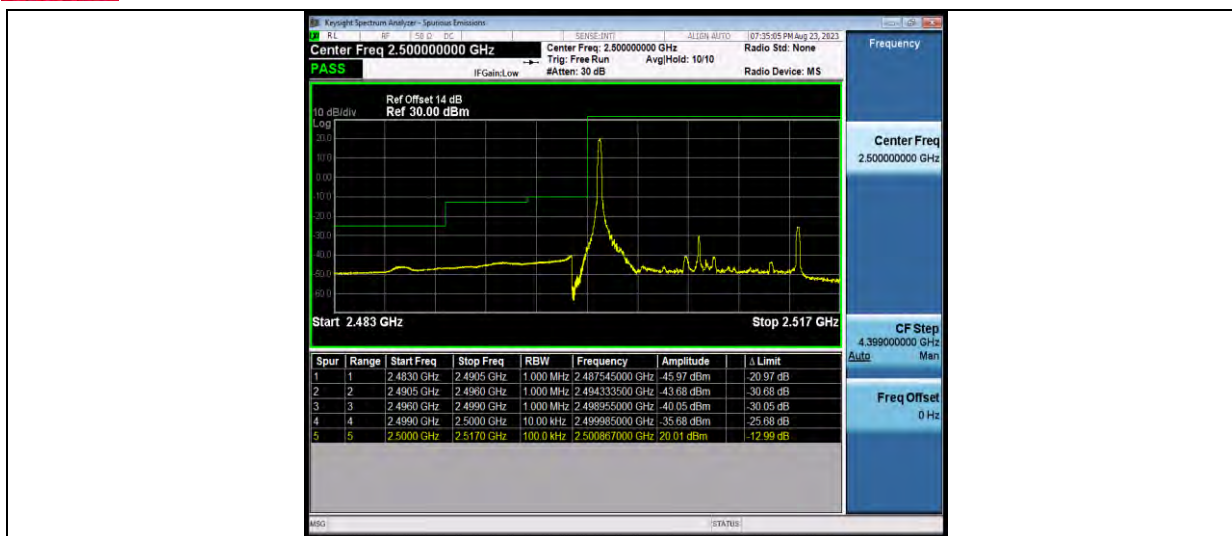
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Band7-15MHz-16QAM-21375-75RB#0



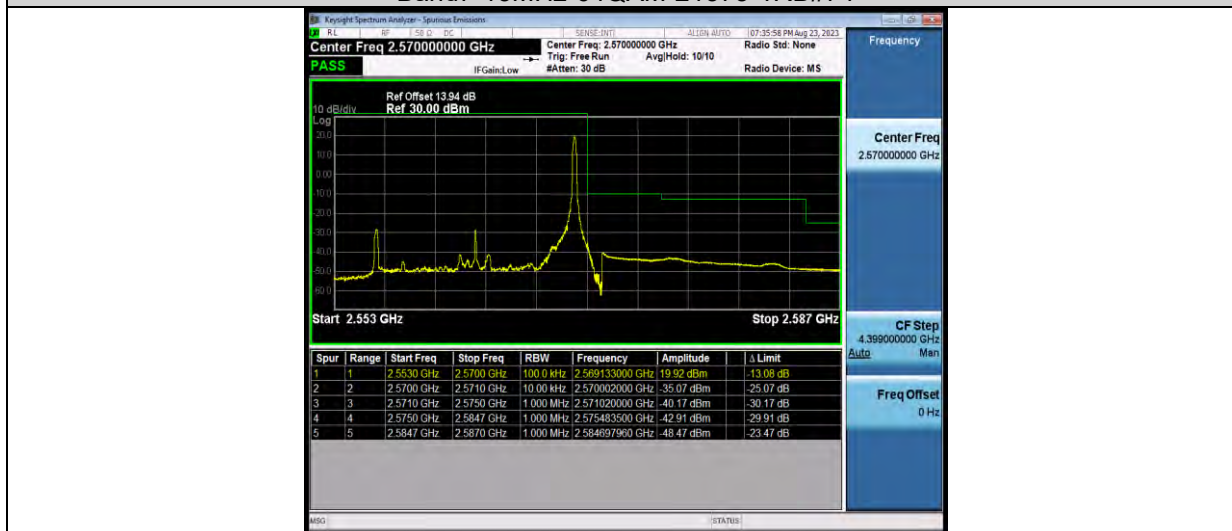
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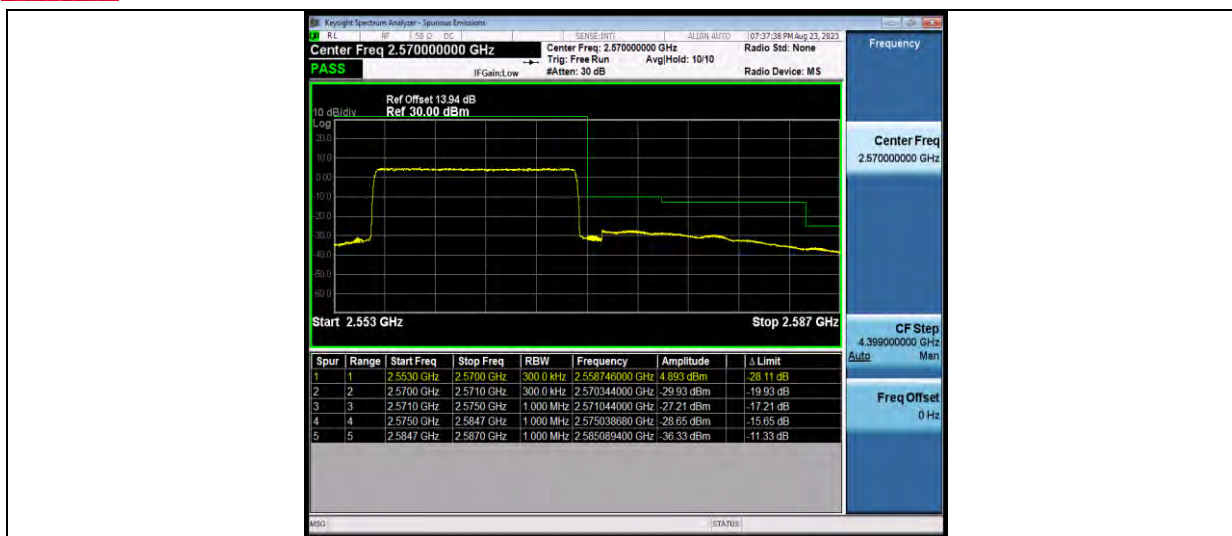
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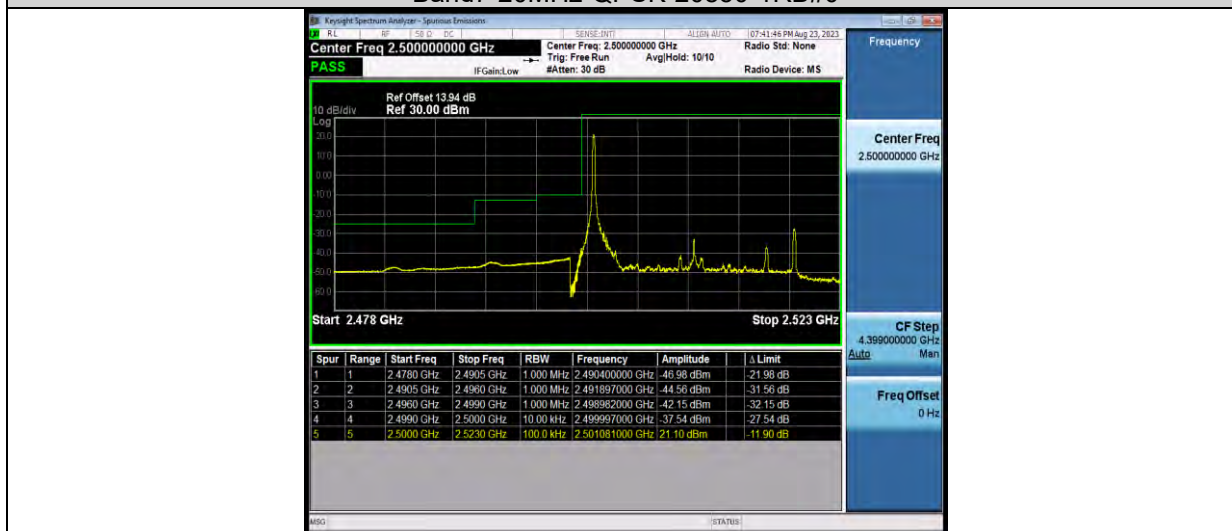
Band7-15MHz-64QAM-21375-1RB#74



Band7-15MHz-64QAM-21375-75RB#0



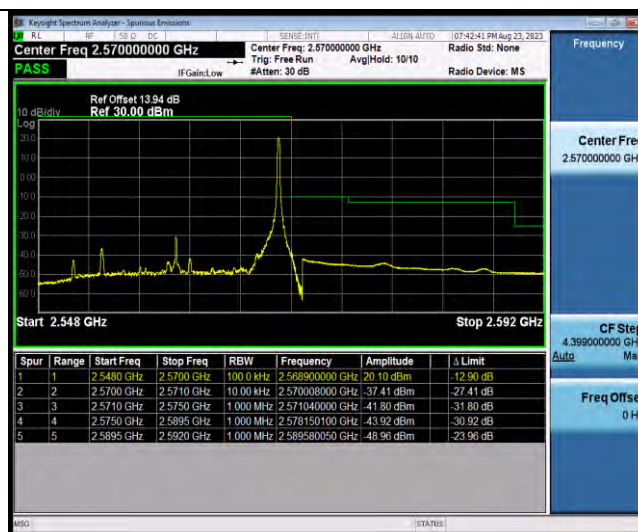
Band7-20MHz-QPSK-20850-1RB#0



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



Band7-20MHz-QPSK-21350-1RB#99



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



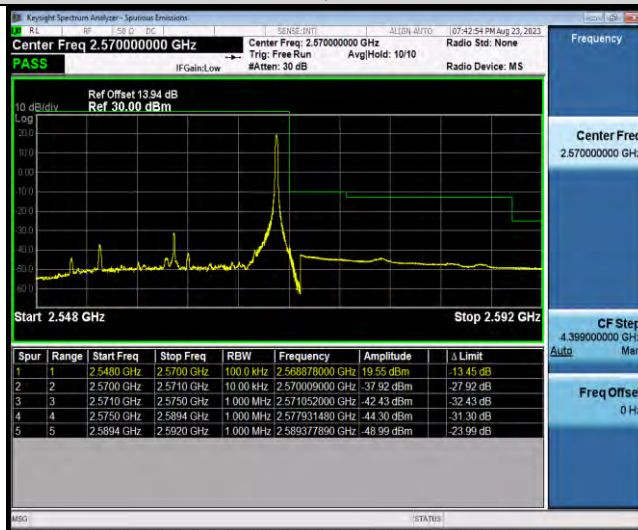
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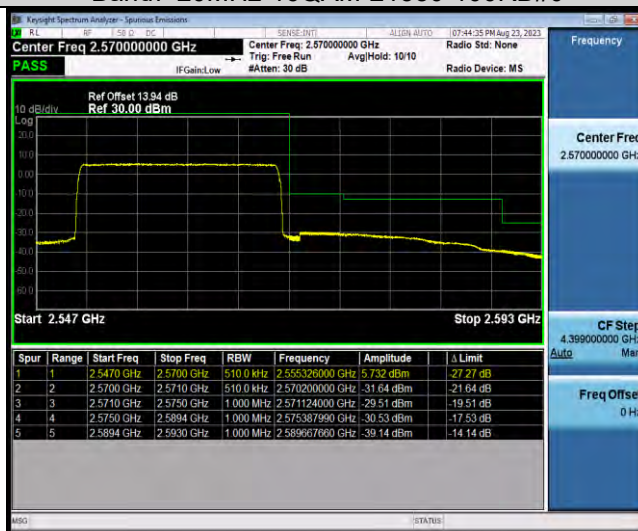
Band7-20MHz-16QAM-20850-100RB#0



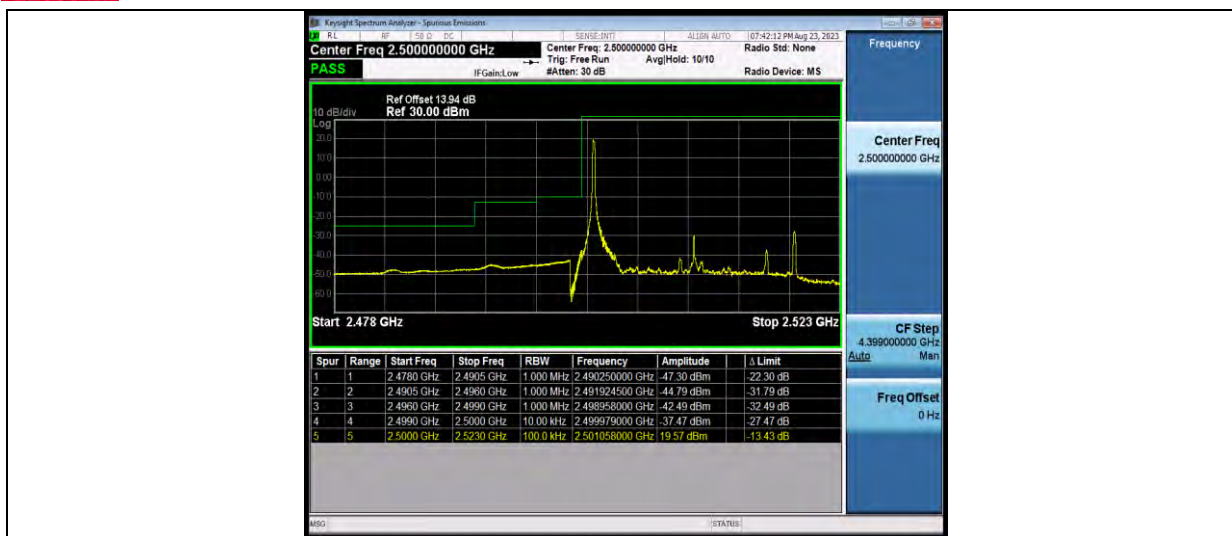
Band7-20MHz-16QAM-21350-1RB#99



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



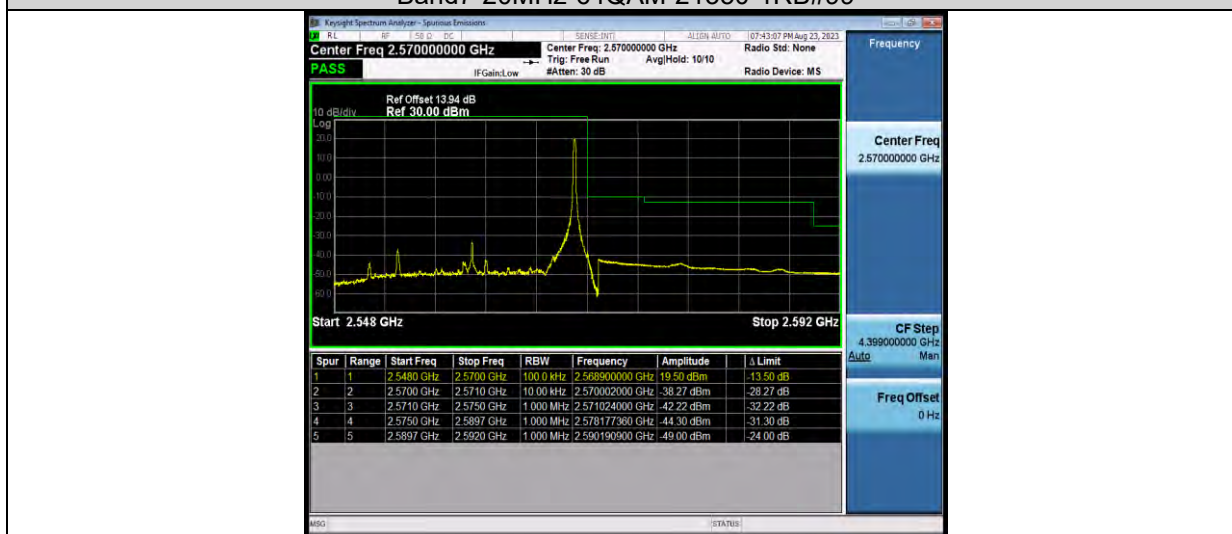
Band7-20MHz-64QAM-20850-1RB#0



Band7-20MHz-64QAM-20850-100RB#0



Band7-20MHz-64QAM-21350-1RB#99



Band7-20MHz-64QAM-21350-100RB#0



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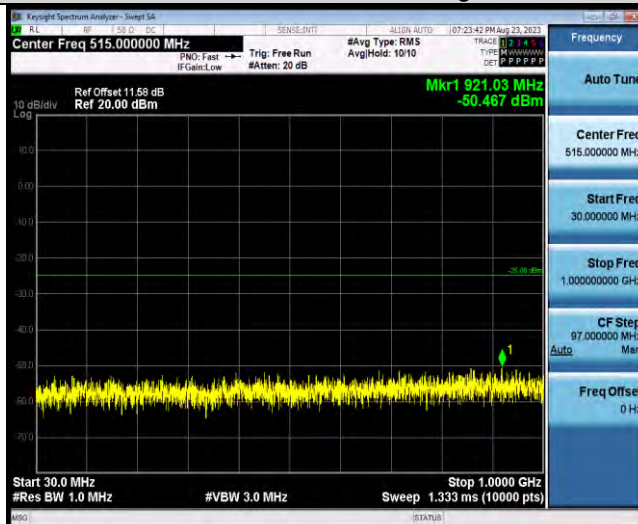
CONDUCTED SPURIOUS EMISSION

Test Result

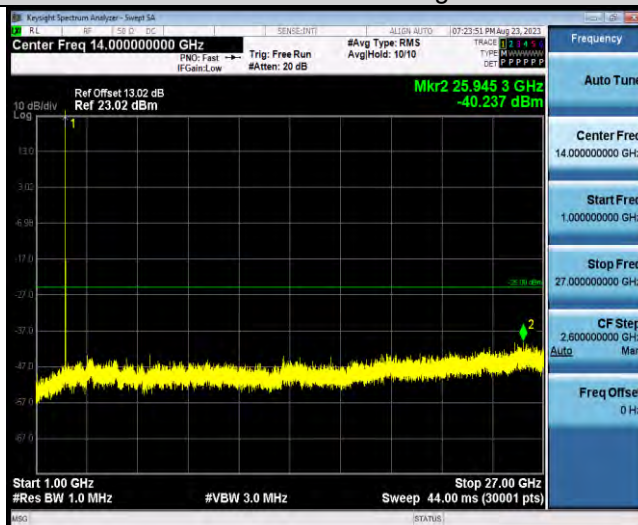
Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	Range1:30~1000MHz	-50.47	PASS
Band7	5MHz	QPSK	20775	1RB#0	Range2:1000~27000MHz	-40.24	PASS
Band7	5MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-49.91	PASS
Band7	5MHz	QPSK	21100	1RB#0	Range2:1000~27000MHz	-39.82	PASS
Band7	5MHz	QPSK	21425	1RB#0	Range1:30~1000MHz	-51.21	PASS
Band7	5MHz	QPSK	21425	1RB#0	Range2:1000~27000MHz	-40.22	PASS
Band7	10MHz	QPSK	20800	1RB#0	Range1:30~1000MHz	-50.38	PASS
Band7	10MHz	QPSK	20800	1RB#0	Range2:1000~27000MHz	-40.41	PASS
Band7	10MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-51.2	PASS
Band7	10MHz	QPSK	21100	1RB#0	Range2:1000~27000MHz	-40.25	PASS
Band7	10MHz	QPSK	21400	1RB#0	Range1:30~1000MHz	-50.2	PASS
Band7	10MHz	QPSK	21400	1RB#0	Range2:1000~27000MHz	-40.42	PASS
Band7	15MHz	QPSK	20825	1RB#0	Range1:30~1000MHz	-50.54	PASS
Band7	15MHz	QPSK	20825	1RB#0	Range2:1000~27000MHz	-40.64	PASS
Band7	15MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-50.59	PASS
Band7	15MHz	QPSK	21100	1RB#0	Range2:1000~27000MHz	-40.45	PASS
Band7	15MHz	QPSK	21375	1RB#0	Range1:30~1000MHz	-50.82	PASS
Band7	15MHz	QPSK	21375	1RB#0	Range2:1000~27000MHz	-40.68	PASS
Band7	20MHz	QPSK	20850	1RB#0	Range1:30~1000MHz	-50.91	PASS
Band7	20MHz	QPSK	20850	1RB#0	Range2:1000~27000MHz	-41.02	PASS
Band7	20MHz	QPSK	21100	1RB#0	Range1:30~1000MHz	-50.77	PASS
Band7	20MHz	QPSK	21100	1RB#0	Range2:1000~27000MHz	-40.25	PASS
Band7	20MHz	QPSK	21350	1RB#0	Range1:30~1000MHz	-49.12	PASS
Band7	20MHz	QPSK	21350	1RB#0	Range2:1000~27000MHz	-40.45	PASS

Test Graphs

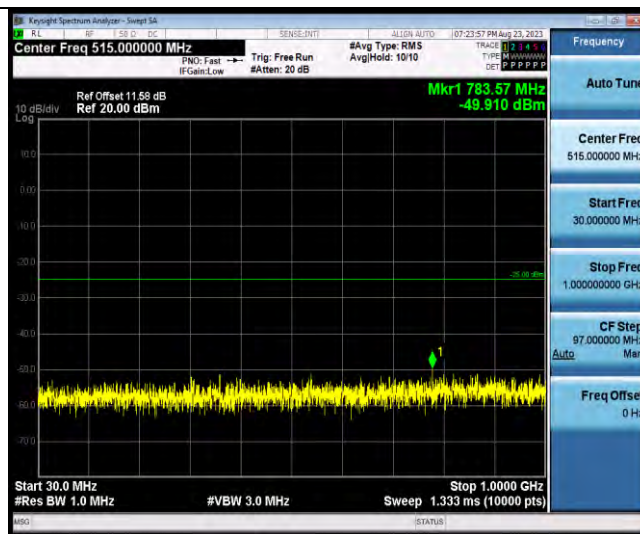
Band7-5MHz-QPSK-20775-1RB#0-Range1:30~1000MHz



Band7-5MHz-QPSK-20775-1RB#0-Range2:1000~27000MHz



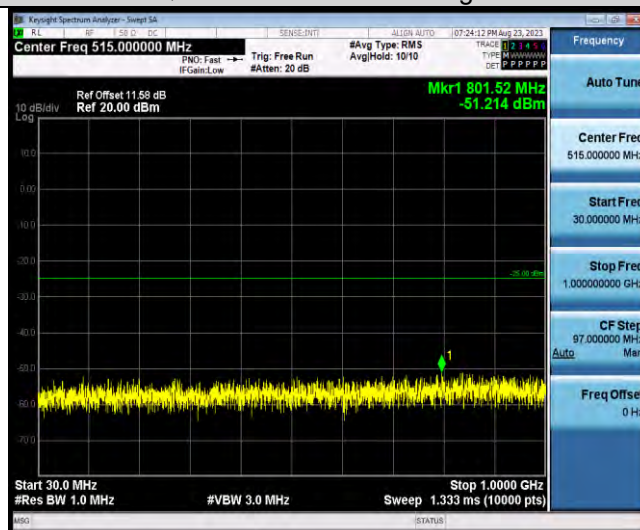
Band7-5MHz-QPSK-21100-1RB#0-Range1:30~1000MHz



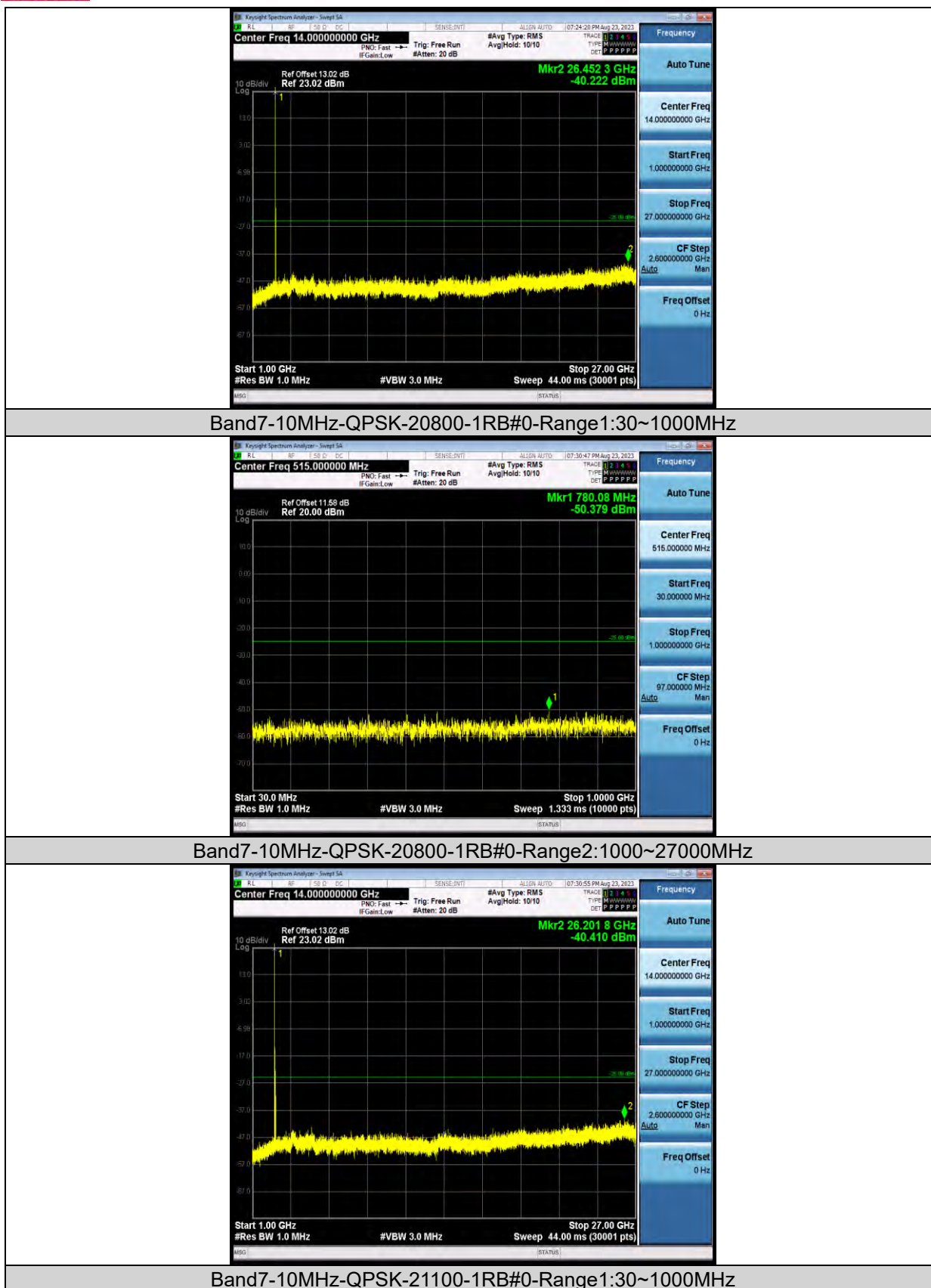
Band7-5MHz-QPSK-21100-1RB#0-Range2:1000~27000MHz

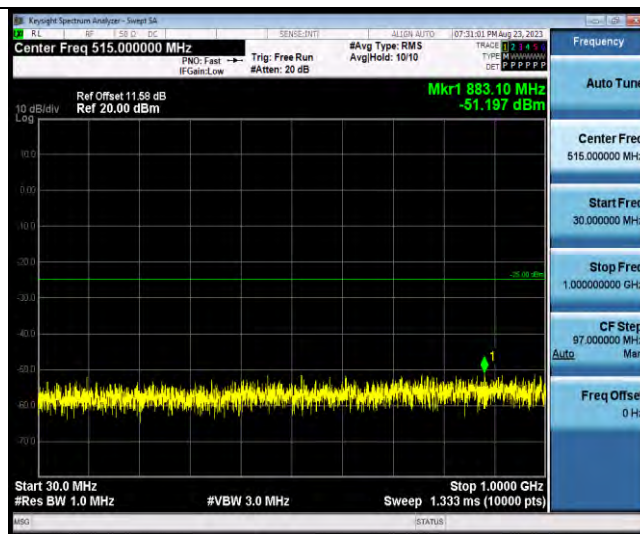


Band7-5MHz-QPSK-21425-1RB#0-Range1:30~1000MHz

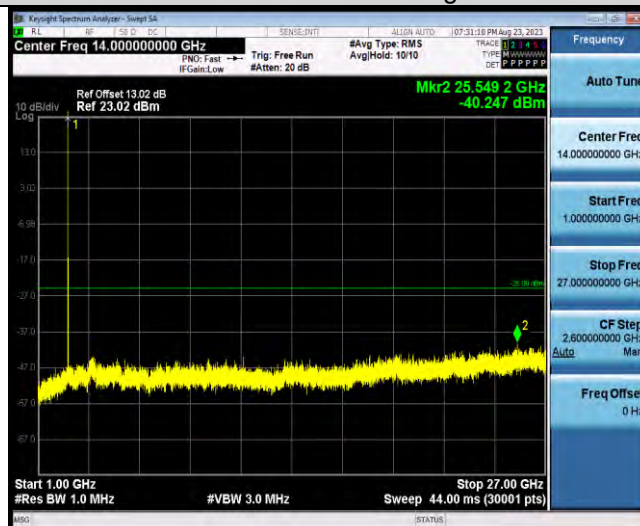


Band7-5MHz-QPSK-21425-1RB#0-Range2:1000~27000MHz

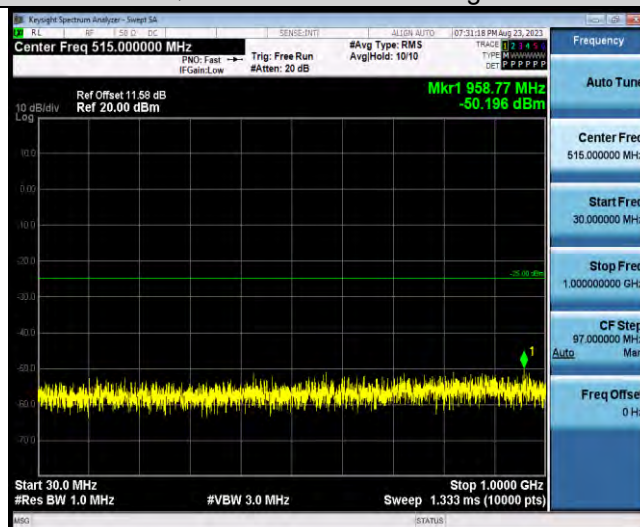




Band7-10MHz-QPSK-21100-1RB#0-Range2:1000~27000MHz



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

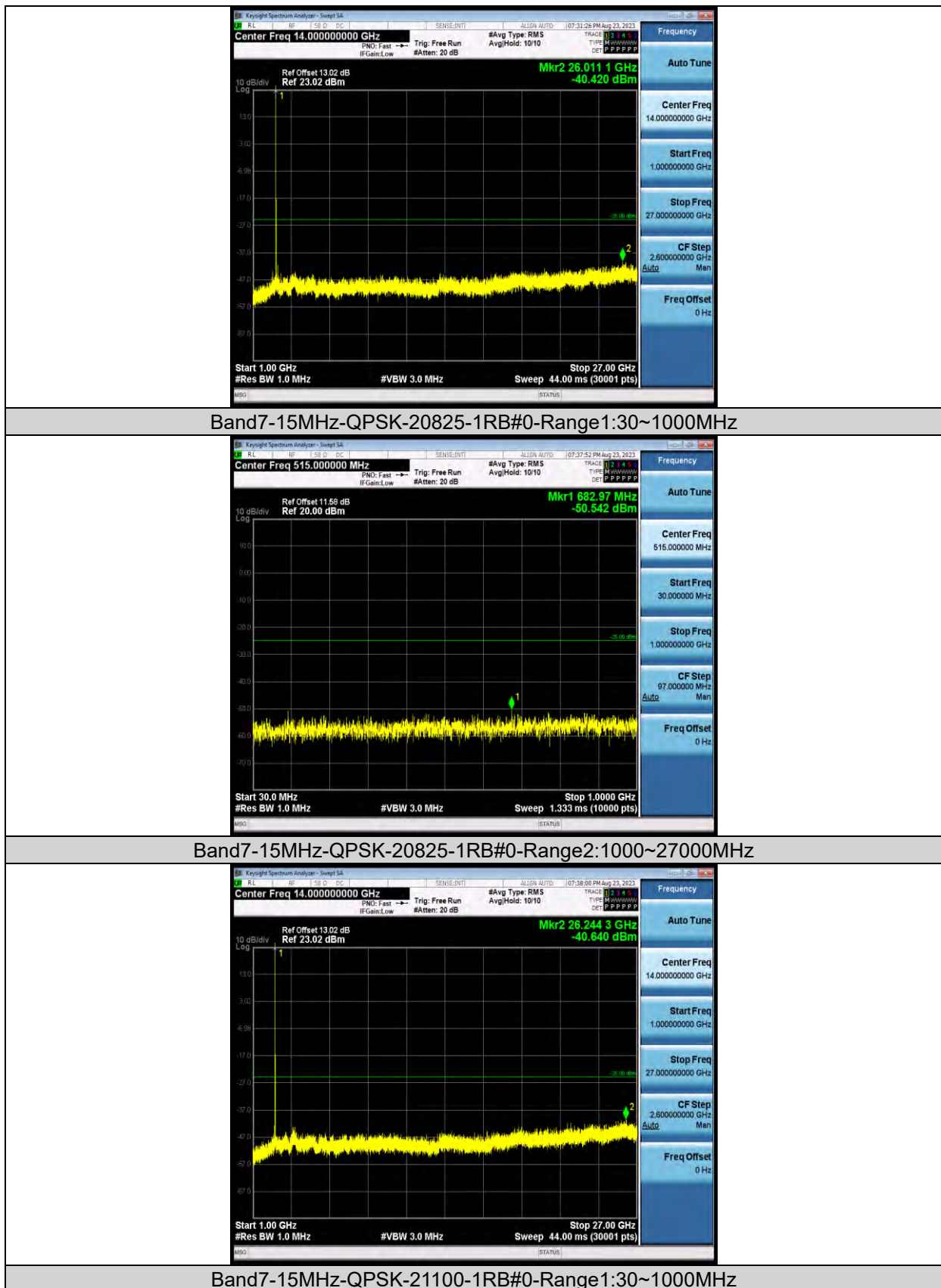


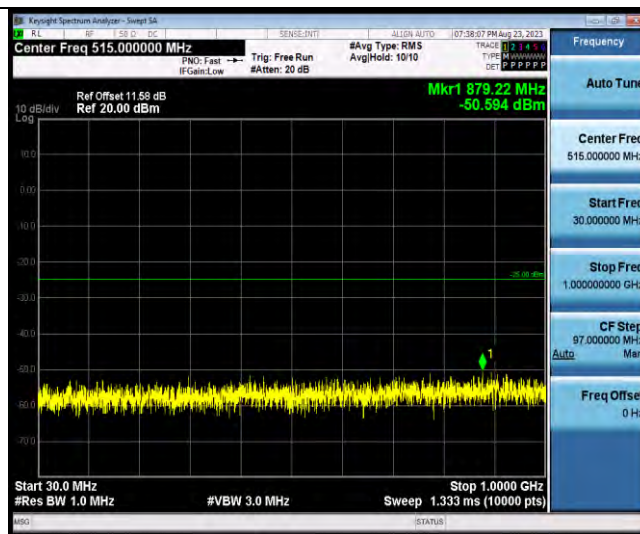
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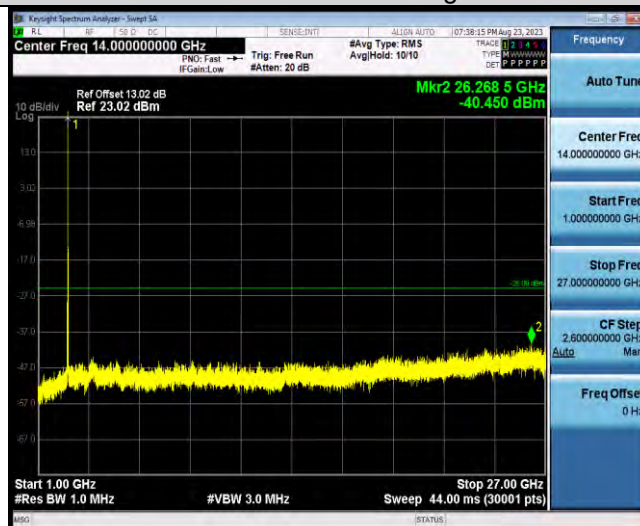
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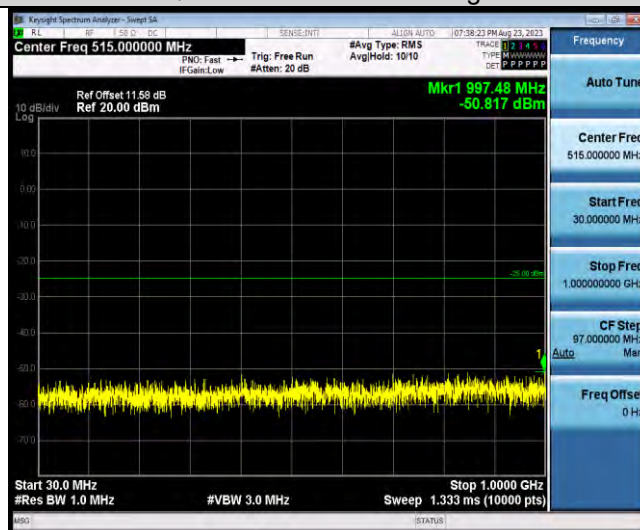




Band7-15MHz-QPSK-21100-1RB#0-Range2:1000~27000MHz



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

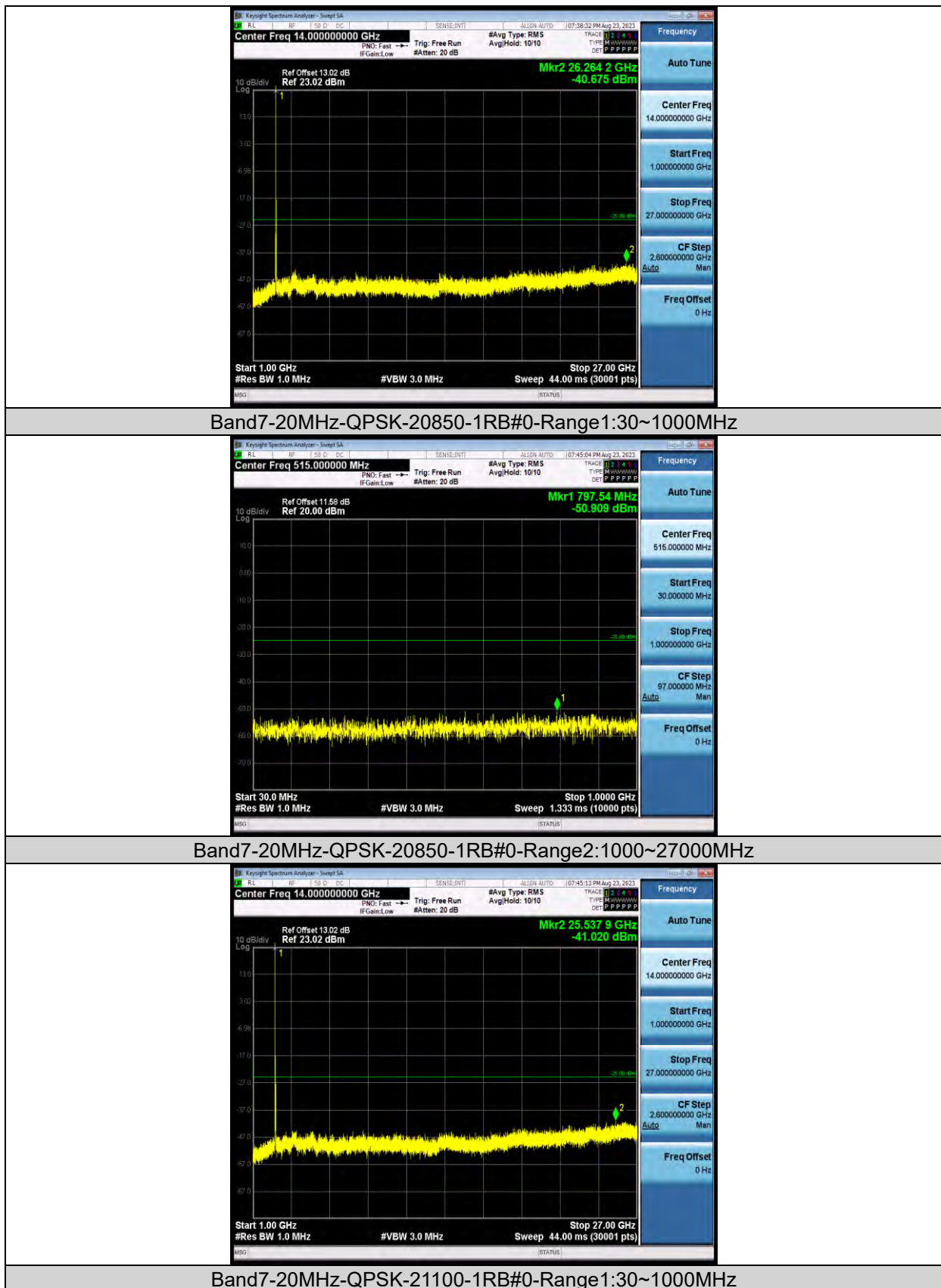


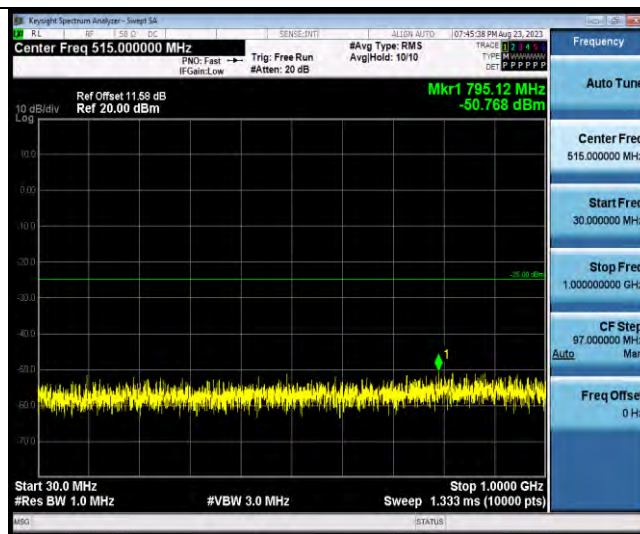
Band7-15MHz-QPSK-21375-1RB#0-Range2:1000~27000MHz



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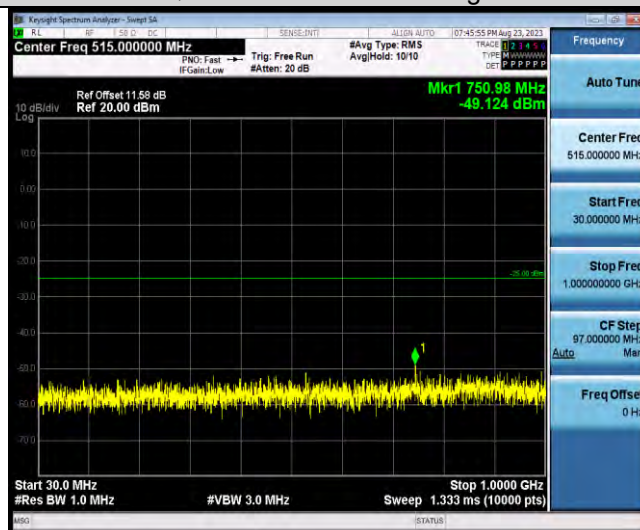




Band7-20MHz-QPSK-21100-1RB#0-Range2:1000~27000MHz



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

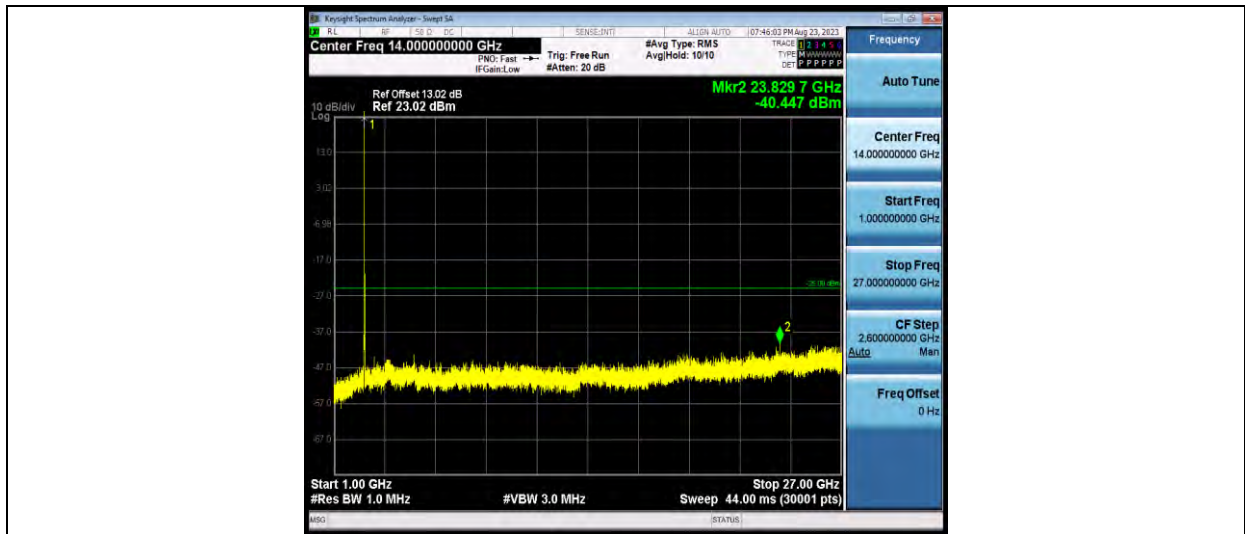


Band7-20MHz-QPSK-21350-1RB#0-Range2:1000~27000MHz



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FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	VL	NT	-21.29	-0.008482	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VN	NT	-12.80	-0.005100	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	VH	NT	-12.06	-0.004805	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VL	NT	12.46	0.004915	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VN	NT	-13.69	-0.005400	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	VH	NT	14.29	0.005637	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VL	NT	20.10	0.007852	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VN	NT	-13.85	-0.005410	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	VH	NT	-20.41	-0.007973	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	15.95	0.006355	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	-15.78	-0.006287	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-10	-16.61	-0.006618	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	-17.37	-0.006920	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	10.19	0.004060	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-12.53	-0.004992	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-17.62	-0.007020	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	-9.97	-0.003972	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	-12.79	-0.005096	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	16.35	0.006450	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-13.95	-0.005503	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	-18.63	-0.007349	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	-20.48	-0.008079	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-16.22	-0.006398	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	14.20	0.005602	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-11.19	-0.004414	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	-11.63	-0.004588	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-18.05	-0.007120	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	-18.71	-0.007309	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	-18.84	-0.007359	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-10	18.42	0.007195	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-20.30	-0.007930	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	-9.71	-0.003793	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	-13.80	-0.005391	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-18.70	-0.007305	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	6.01	0.002348	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	11.79	0.004605	±2.5	PASS



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MAX Deviation calculation

Frequency Stability	Frequency (MHz)	Limit Line(MHz)	Result
$f_L - \text{MAX}(\Delta f) $	2501.013995	≥ 2500	PASS
$f_H + \text{MAX}(\Delta f) $	2568.983005	≤ 2570	

- Note : 1. $|\text{MAX}(\Delta f)|$ = Max Deviation
2. f_L = Occ low channel f_L (-13dBm/MHz)
3. f_H = Occ High channel f_H (-13dBm/MHz)
4. $|\text{MAX}(\Delta f)|$ = 12.96 Hz.

---END---