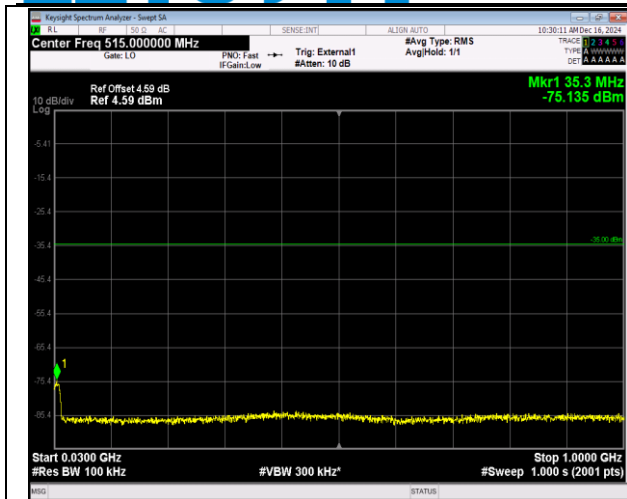
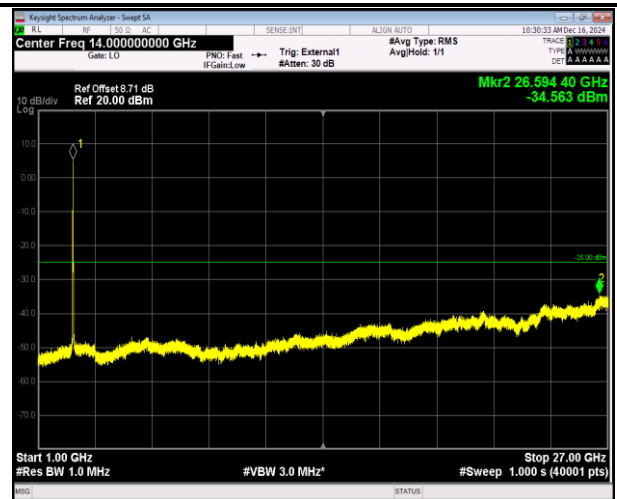
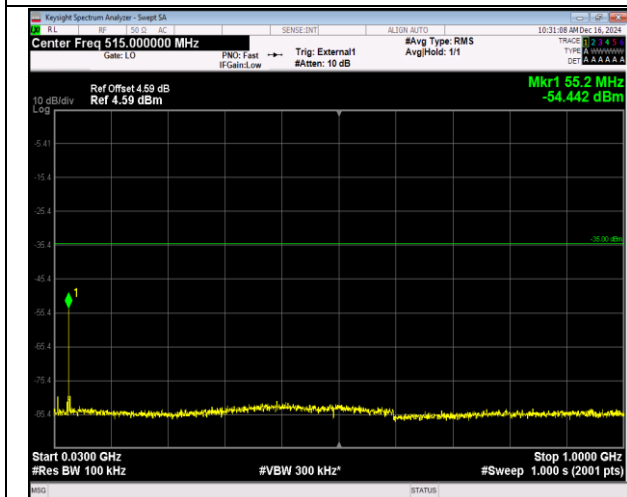




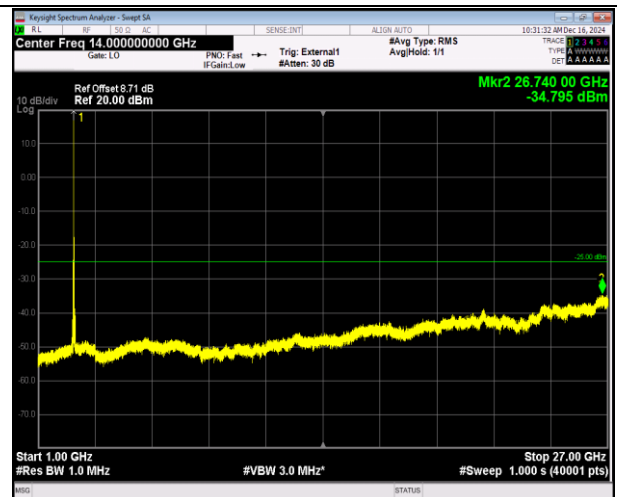
41(2555-2655)-41(2555-2655)-20MHz-20MHz-16QAM-16
QAM-40641-40839-100RB#0-100RB#0-30~1000MHz-PA
SS



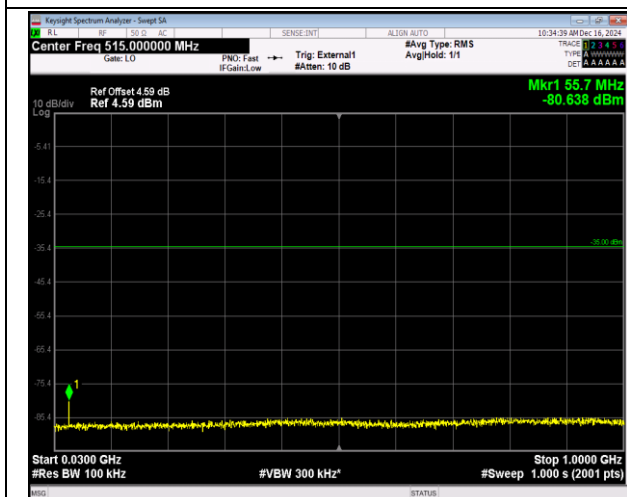
41(2555-2655)-41(2555-2655)-20MHz-20MHz-16QAM-16Q
AM-40641-40839-100RB#0-100RB#0-1000~27000MHz-PA
SS



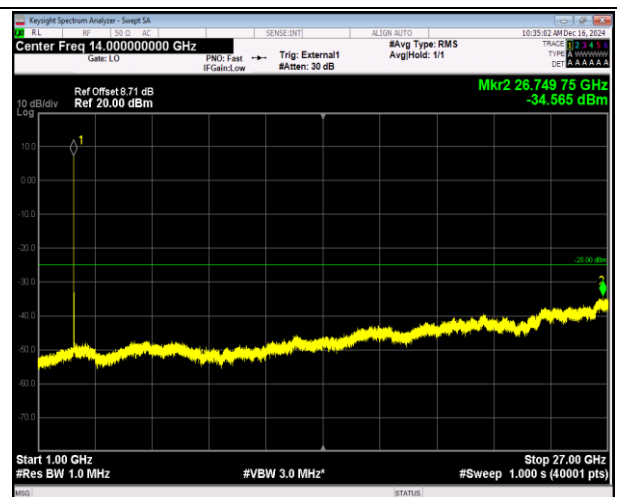
41(2555-2655)-41(2555-2655)-20MHz-20MHz-QPSK-QP
SK-40942-41140-1RB#0-0RB#0-30~1000MHz-PASS



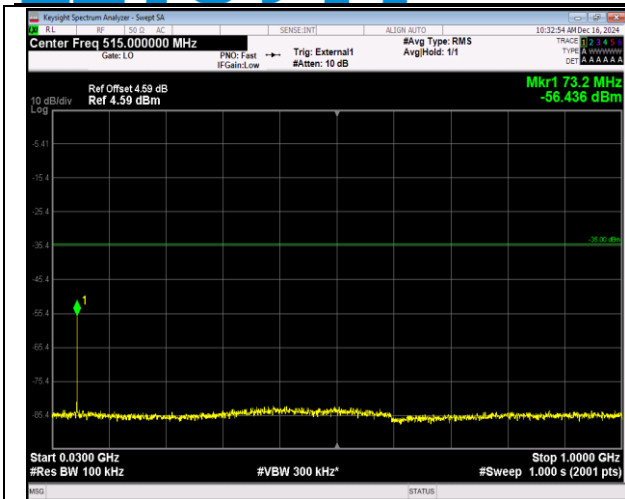
41(2555-2655)-41(2555-2655)-20MHz-20MHz-QPSK-QPS
K-40942-41140-1RB#0-0RB#0-1000~27000MHz-PASS



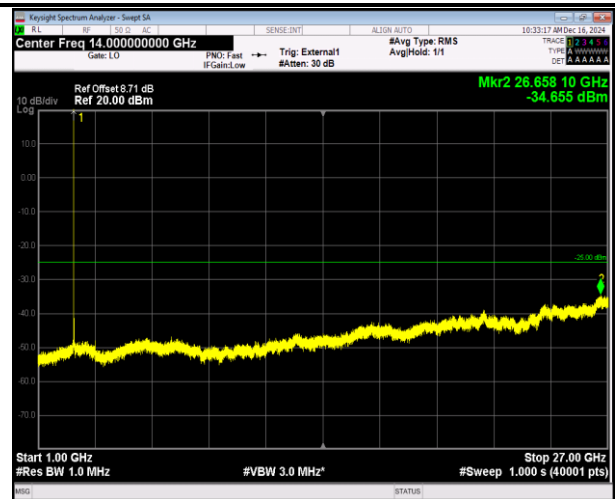
41(2555-2655)-41(2555-2655)-20MHz-20MHz-QPSK-QP
SK-40942-41140-1RB#0-1RB#99-30~1000MHz-PASS



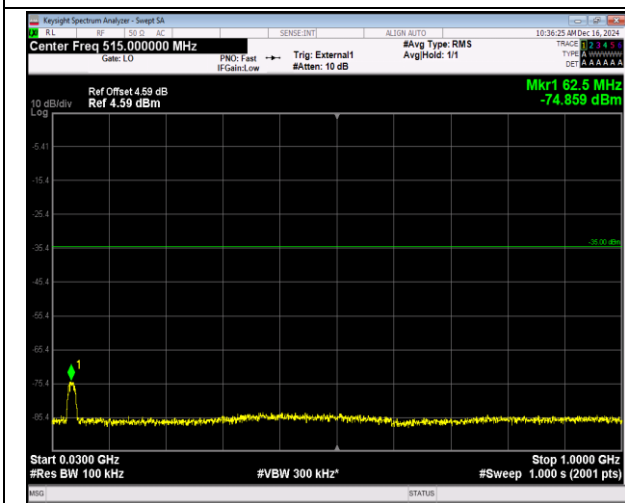
41(2555-2655)-41(2555-2655)-20MHz-20MHz-QPSK-QPS
K-40942-41140-1RB#0-1RB#99-1000~27000MHz-PASS



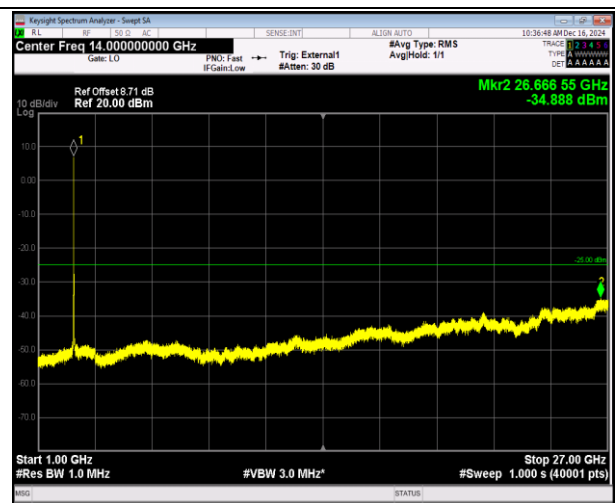
41(2555-2655)-41(2555-2655)-20MHz-20MHz-QPSK-QP
SK-40942-41140-1RB#99-ORB#0-30~1000MHz-PASS



41(2555-2655)-41(2555-2655)-20MHz-20MHz-QPSK-QPS
K-40942-41140-1RB#99-ORB#0-1000~27000MHz-PASS

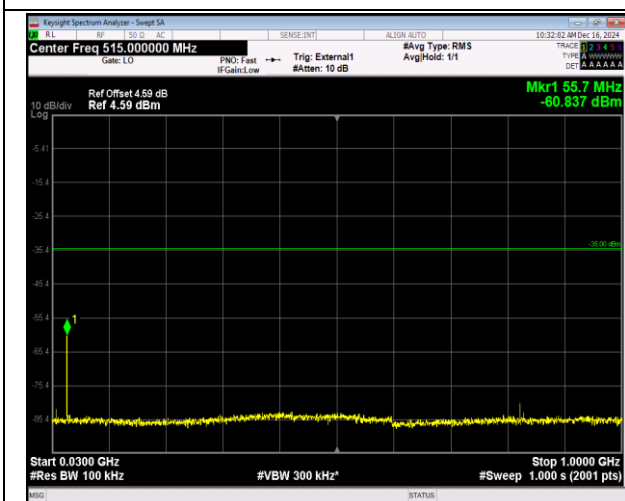


41(2555-2655)-41(2555-2655)-20MHz-20MHz-QPSK-QP
SK-40942-41140-100RB#0-100RB#0-30~1000MHz-PASS

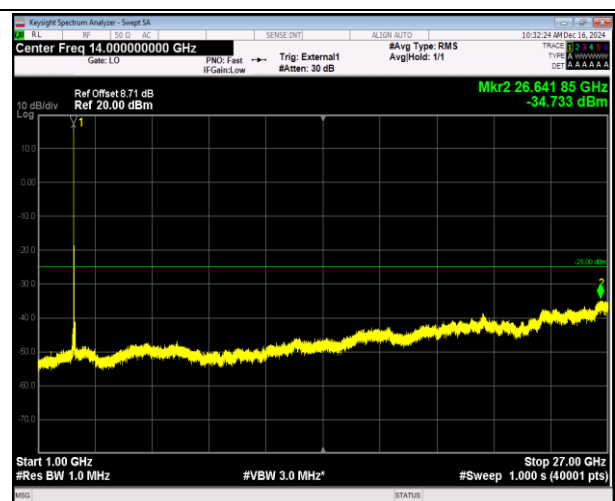


41(2555-2655)-41(2555-2655)-20MHz-20MHz-QPSK-QPS
K-40942-41140-100RB#0-100RB#0-1000~27000MHz-PAS

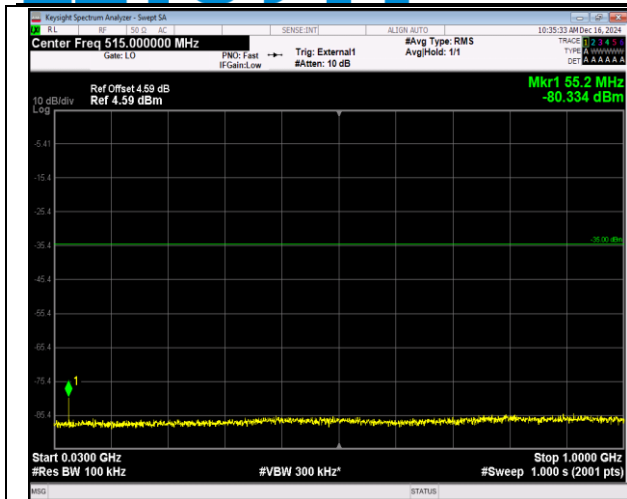
S



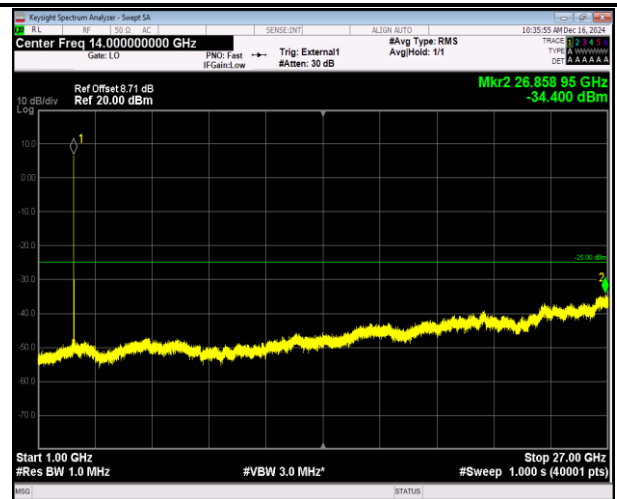
41(2555-2655)-41(2555-2655)-20MHz-20MHz-16QAM-16
QAM-40942-41140-1RB#0-ORB#0-30~1000MHz-PASS



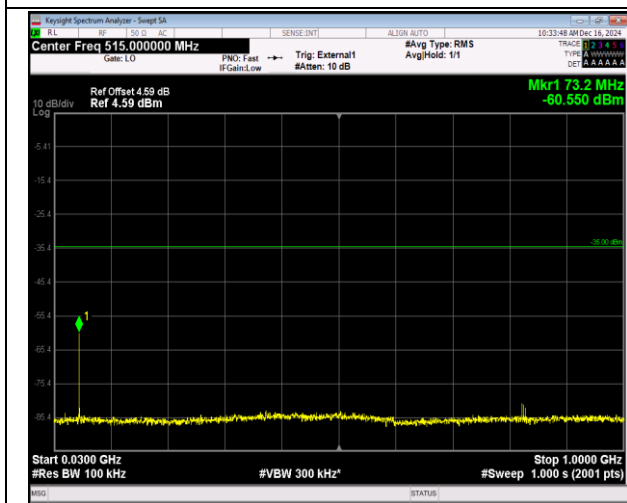
41(2555-2655)-41(2555-2655)-20MHz-20MHz-16QAM-16Q
AM-40942-41140-1RB#0-ORB#0-1000~27000MHz-PASS



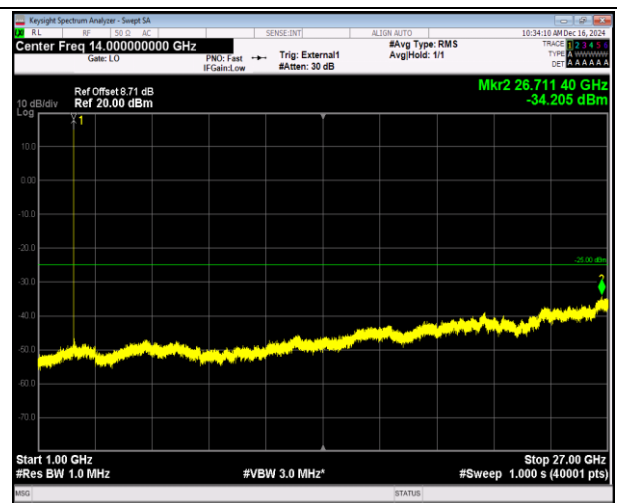
41(2555-2655)-41(2555-2655)-20MHz-20MHz-16QAM-16
QAM-40942-41140-1RB#0-1RB#99-30~1000MHz-PASS



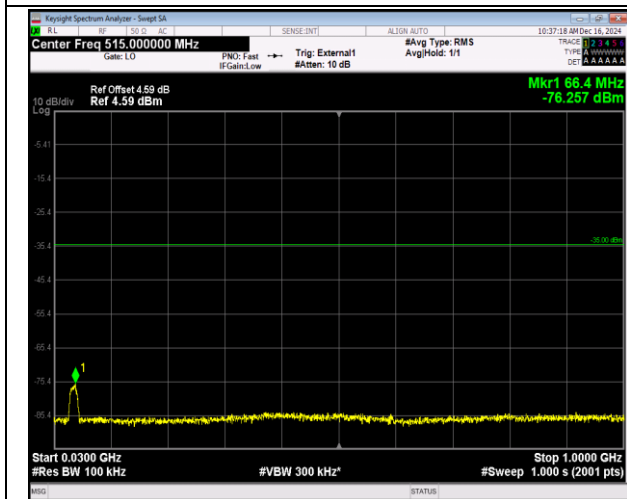
41(2555-2655)-41(2555-2655)-20MHz-20MHz-16QAM-16Q
AM-40942-41140-1RB#0-1RB#99-1000~27000MHz-PASS



41(2555-2655)-41(2555-2655)-20MHz-20MHz-16QAM-16
QAM-40942-41140-1RB#99-0RB#0-30~1000MHz-PASS

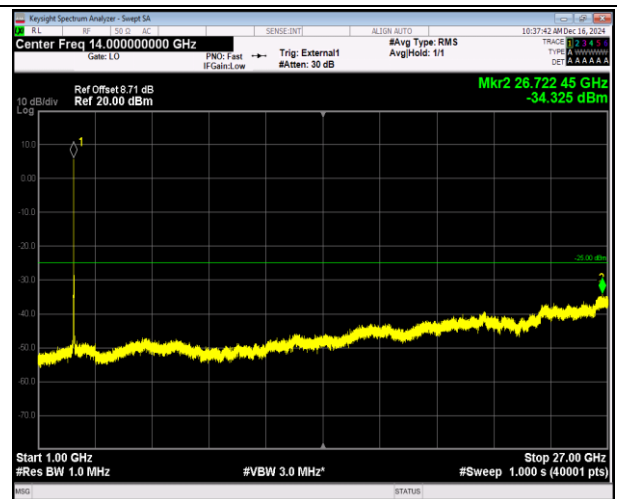


41(2555-2655)-41(2555-2655)-20MHz-20MHz-16QAM-16Q
AM-40942-41140-1RB#99-0RB#0-1000~27000MHz-PASS



41(2555-2655)-41(2555-2655)-20MHz-20MHz-16QAM-16
QAM-40942-41140-100RB#0-100RB#0-30~1000MHz-PA

SS



41(2555-2655)-41(2555-2655)-20MHz-20MHz-16QAM-16Q
AM-40942-41140-100RB#0-100RB#0-1000~27000MHz-PA

SS

Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	VN	NT	-1970.00	-2.3549100	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	VL	NT	-1576.00	-1.8839280	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	VH	NT	-1521.00	-1.8181818	±2.5	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	VN	NT	-1372.00	-1.6400693	±2.5	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	VL	NT	-1165.00	-1.3926245	±2.5	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	VH	NT	-751.00	-0.8977347	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VN	NT	-10130.00	-3.996055	±NA	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VL	NT	-1990.00	-0.785010	±NA	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	VH	NT	-16790.00	-6.623274	±NA	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	VN	NT	2690.00	1.061144	±NA	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	VL	NT	11440.00	4.512821	±NA	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	VH	NT	6660.00	2.627219	±NA	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VN	NT	29670.00	11.433526	±NA	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VL	NT	27960.00	10.774566	±NA	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	VH	NT	23030.00	8.874759	±NA	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	VN	NT	14360.00	5.533719	±NA	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	VL	NT	26430.00	10.184971	±NA	PASS

38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	VH	NT	43230.00	16.658960	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	QPSK-QPSK	40641-40839	100RB#0-100RB#0	VN	NT	36640.00	14.065259	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	QPSK-QPSK	40641-40839	100RB#0-100RB#0	VL	NT	36050.00	13.838772	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	QPSK-QPSK	40641-40839	100RB#0-100RB#0	VH	NT	39600.00	15.201536	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	16QAM-16QAM	40641-40839	100RB#0-100RB#0	VN	NT	31370.00	12.042226	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	16QAM-16QAM	40641-40839	100RB#0-100RB#0	VL	NT	31620.00	12.138196	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	16QAM-16QAM	40641-40839	100RB#0-100RB#0	VH	NT	31460.00	12.076775	±NA	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-30	-1586.0	-1.8958819	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-20	-1699.00	-2.0309605	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	-10	-1489.0	-1.7799295	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	0	-1752.	-2.0943159	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	10	-1829.0	-2.1863606	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	20	-1256.00	-1.5014046	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	30	-1231.00	-1.4715199	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	40	-1502.00	-1.7954695	±2.5	PASS
5-5	10MHz-10MHz	QPSK-QPSK	20476-20575	50RB#0-50RB#0	NV	50	-1691.00	-2.0213974	±2.5	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	NV	-30	-1542.00	-1.8432849	±2.5	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	NV	-20	-1586.00	-1.8958819	±2.5	PASS

5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	NV	-10	-1811.00	-2.1648437	±2.5	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	NV	0	-1550.00	-1.8528480	±2.5	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	NV	10	-1386.00	-1.6568047	±2.5	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	NV	20	-1318.00	-1.5755185	±2.5	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	NV	30	-1053.00	-1.2587413	±2.5	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	NV	40	-1210.00	-1.4464168	±2.5	PASS
5-5	10MHz-10MHz	16QAM-16QAM	20476-20575	50RB#0-50RB#0	NV	50	-844.00	-1.0089056	±2.5	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-30	-4320.00	-1.704142	±NA	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-20	-7960.00	-3.140039	±NA	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	-10	-2650.00	-1.045365	±NA	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	0	-15210.00	-6.000000	±NA	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	10	-19420.00	-7.660750	±NA	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	20	-6110.00	-2.410256	±NA	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	30	-11390.00	-4.493097	±NA	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	40	-6600.00	-2.603550	±NA	PASS
7-7	20MHz-20MHz	QPSK-QPSK	21001-21199	100RB#0-100RB#0	NV	50	-1900.00	-0.749507	±NA	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	NV	-30	4600.00	1.814596	±NA	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	NV	-20	10340.00	4.078895	±NA	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	NV	-10	3550.00	1.400394	±NA	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	NV	0	16910.00	6.670611	±NA	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	NV	10	4320.00	1.704142	±NA	PASS

7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	NV	20	3030.00	1.195266	±NA	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	NV	30	5200.00	2.051282	±NA	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	NV	40	9500.00	3.747535	±NA	PASS
7-7	20MHz-20MHz	16QAM-16QAM	21001-21199	100RB#0-100RB#0	NV	50	14540.00	5.735700	±NA	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-30	52940.00	20.400771	±NA	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-20	28310.00	10.909441	±NA	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	-10	8940.00	3.445087	±NA	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	0	21880.00	8.431599	±NA	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	10	48070.00	18.524085	±NA	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	20	22830.00	8.797688	±NA	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	30	21640.00	8.339114	±NA	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	40	6370.00	2.454721	±NA	PASS
38-38	20MHz-20MHz	QPSK-QPSK	37901-38099	100RB#0-100RB#0	NV	50	15610.00	6.015414	±NA	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	NV	-30	12900.00	4.971098	±NA	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	NV	-20	30590.00	11.788054	±NA	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	NV	-10	18310.00	7.055877	±NA	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	NV	0	6240.00	2.404624	±NA	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	NV	10	28750.00	11.078998	±NA	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	NV	20	11060.00	4.262042	±NA	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	NV	30	16470.00	6.346821	±NA	PASS
38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	NV	40	41930.00	16.157996	±NA	PASS

38-38	20MHz-20MHz	16QAM-16QAM	37901-38099	100RB#0-100RB#0	NV	50	16670.00	6.423892	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	QPSK-QPSK	40641-40839	100RB#0-100RB#0	NV	-30	37310.00	14.322457	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	QPSK-QPSK	40641-40839	100RB#0-100RB#0	NV	-20	37520.00	14.403071	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	QPSK-QPSK	40641-40839	100RB#0-100RB#0	NV	-10	39250.00	15.067179	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	QPSK-QPSK	40641-40839	100RB#0-100RB#0	NV	0	37550.00	14.414587	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	QPSK-QPSK	40641-40839	100RB#0-100RB#0	NV	10	36250.00	13.915547	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	QPSK-QPSK	40641-40839	100RB#0-100RB#0	NV	20	38390.00	14.737044	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	QPSK-QPSK	40641-40839	100RB#0-100RB#0	NV	30	16480.00	6.326296	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	QPSK-QPSK	40641-40839	100RB#0-100RB#0	NV	40	36200.00	13.896353	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	QPSK-QPSK	40641-40839	100RB#0-100RB#0	NV	50	36600.00	14.049904	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	16QAM-16QAM	40641-40839	100RB#0-100RB#0	NV	-30	32210.00	12.364683	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	16QAM-16QAM	40641-40839	100RB#0-100RB#0	NV	-20	26370.00	10.122841	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	16QAM-16QAM	40641-40839	100RB#0-100RB#0	NV	-10	30830.00	11.834933	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	16QAM-16QAM	40641-40839	100RB#0-100RB#0	NV	0	33140.00	12.721689	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	16QAM-16QAM	40641-40839	100RB#0-100RB#0	NV	10	30960.00	11.884837	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	16QAM-16QAM	40641-40839	100RB#0-100RB#0	NV	20	31980.00	12.276392	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	16QAM-16QAM	40641-40839	100RB#0-100RB#0	NV	30	31110.00	11.942418	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	16QAM-16QAM	40641-40839	100RB#0-100RB#0	NV	40	31330.00	12.026871	±NA	PASS
41(2555-2655)-41(2555-2655)	20MHz-20MHz	16QAM-16QAM	40641-40839	100RB#0-100RB#0	NV	50	31740.00	12.184261	±NA	PASS