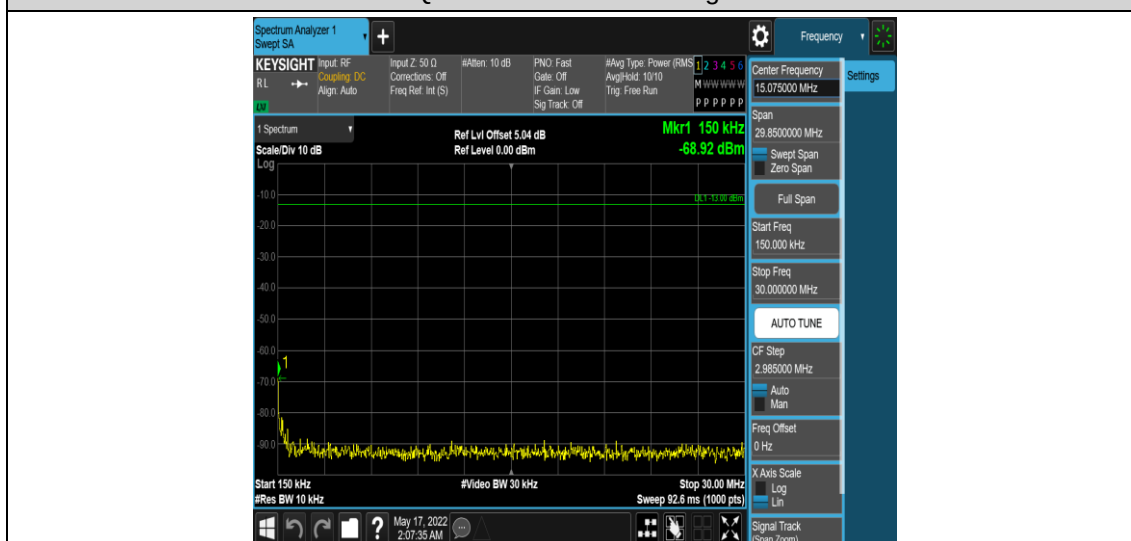




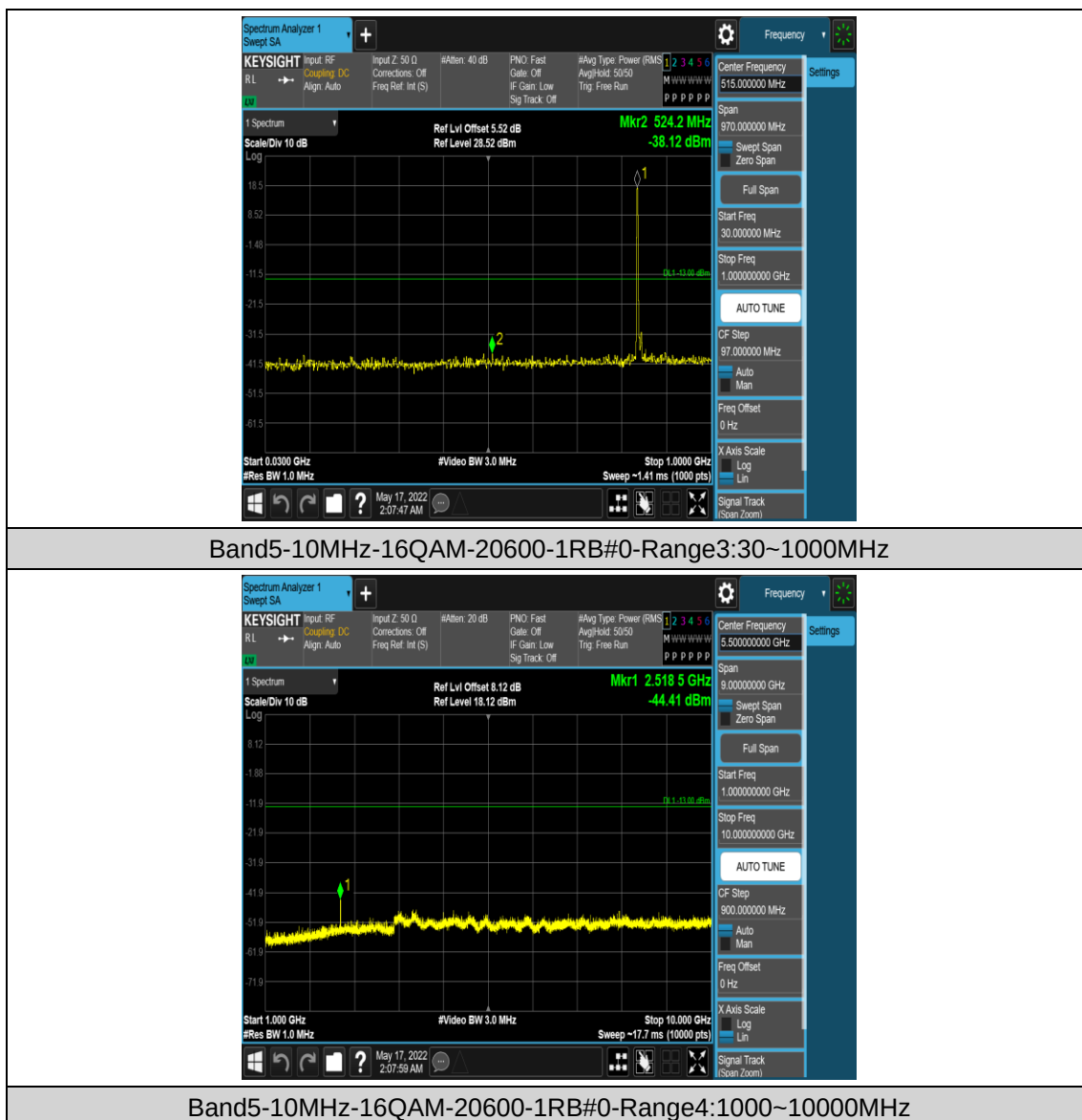
Band5-10MHz-16QAM-20525-1RB#0-Range4:1000~10000MHz



Band5-10MHz-16QAM-20600-1RB#0-Range1:0.009~0.15MHz



Band5-10MHz-16QAM-20600-1RB#0-Range2:0.15~30MHz



Appendix F: Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	VL	NT	-9.93	-0.012041	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	VN	NT	-10.37	-0.012574	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	VH	NT	-8.98	-0.010889	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VL	NT	-12.36	-0.014776	±2.5	PASS

Band5	1.4MHz	QPSK	20525	6RB#0	VN	NT	-10.03	-0.011990	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	VH	NT	-4.15	-0.004961	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	VL	NT	-5.91	-0.006967	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	VN	NT	-11.62	-0.013698	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	VH	NT	-5.69	-0.006708	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	VL	NT	-7.98	-0.009676	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	VN	NT	-11.56	-0.014017	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	VH	NT	-8.43	-0.010222	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VL	NT	-9.40	-0.011237	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VN	NT	-11.17	-0.013353	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	VH	NT	-15.44	-0.018458	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	VL	NT	-10.73	-0.012649	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	VN	NT	-10.36	-0.012213	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	VH	NT	-10.20	-0.012024	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	VL	NT	-9.68	-0.011726	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	VN	NT	-13.43	-0.016269	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	VH	NT	-4.99	-0.006045	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VL	NT	-11.86	-0.014178	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VN	NT	-2.39	-0.002857	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	VH	NT	-10.86	-0.012983	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	VL	NT	-10.67	-0.012590	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	VN	NT	-7.65	-0.009027	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	VH	NT	-5.22	-0.006159	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	VL	NT	-9.46	-0.011460	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	VN	NT	-13.79	-0.016705	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	VH	NT	-4.62	-0.005597	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VL	NT	-11.12	-0.013293	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VN	NT	-8.53	-0.010197	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	VH	NT	-6.32	-0.007555	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	VL	NT	-13.43	-0.015847	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	VN	NT	-11.32	-0.013357	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	VH	NT	-12.66	-0.014938	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	VL	NT	-10.96	-0.013261	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	VN	NT	-10.37	-0.012547	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	VH	NT	-11.77	-0.014241	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VL	NT	-9.73	-0.011632	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VN	NT	-11.23	-0.013425	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	VH	NT	-11.50	-0.013748	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	VL	NT	-7.91	-0.009344	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	VN	NT	-8.58	-0.010136	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	VH	NT	-9.28	-0.010963	±2.5	PASS

Band5	5MHz	16QAM	20425	25RB#0	VL	NT	-7.10	-0.008590	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	VN	NT	-12.16	-0.014713	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	VH	NT	-12.55	-0.015185	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VL	NT	-4.91	-0.005870	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VN	NT	-11.62	-0.013891	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	VH	NT	-13.43	-0.016055	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	VL	NT	-13.07	-0.015440	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	VN	NT	-6.78	-0.008009	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	VH	NT	-7.00	-0.008269	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VL	NT	-12.13	-0.014632	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VN	NT	-11.44	-0.013800	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	VH	NT	-12.25	-0.014777	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VL	NT	-9.87	-0.011799	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VN	NT	-13.05	-0.015601	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	VH	NT	-10.07	-0.012038	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VL	NT	-7.22	-0.008555	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VN	NT	-4.86	-0.005758	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	VH	NT	-4.95	-0.005865	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VL	NT	-7.21	-0.008697	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VN	NT	-10.79	-0.013016	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	VH	NT	-5.16	-0.006224	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VL	NT	-3.89	-0.004650	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VN	NT	-10.71	-0.012803	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	VH	NT	-14.69	-0.017561	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VL	NT	-10.34	-0.012251	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VN	NT	-10.20	-0.012085	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	VH	NT	-8.20	-0.009716	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-30	-4.86	-0.005893	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	-20	-10.54	-0.012780	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	0	-9.74	-0.011810	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	10	-7.91	-0.009591	±2.5	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	NV	20	-5.87	-0.007118	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-30	-7.30	-0.008727	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	-20	-5.34	-0.006384	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	0	-6.94	-0.008296	±2.5	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	NV	10	-11.69	-0.013975	±2.5	PASS

Band5	1.4MHz	QPSK	20525	6RB#0	NV	20	-3.08	-0.003682	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-30	-12.82	-0.015113	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	-20	-4.49	-0.005293	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	0	-12.42	-0.014641	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	10	-7.87	-0.009277	±2.5	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	NV	20	-12.26	-0.014452	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-30	-13.10	-0.015885	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	-20	-10.16	-0.012320	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	0	-11.24	-0.013629	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	10	-8.71	-0.010561	±2.5	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	NV	20	-11.40	-0.013823	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-30	-11.76	-0.014059	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	-20	-5.02	-0.006001	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	0	-11.66	-0.013939	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	10	-7.32	-0.008751	±2.5	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	NV	20	-4.41	-0.005272	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-30	-7.11	-0.008381	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	-20	-2.66	-0.003136	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	0	-2.79	-0.003289	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	10	-11.32	-0.013344	±2.5	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	NV	20	-11.27	-0.013285	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-30	-14.71	-0.017820	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	-20	-12.23	-0.014815	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	0	-8.67	-0.010503	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	10	-14.29	-0.017311	±2.5	PASS
Band5	3MHz	QPSK	20415	15RB#0	NV	20	-12.02	-0.014561	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-30	1.40	0.001674	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	-20	-12.40	-0.014824	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	0	-2.33	-0.002785	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	10	-8.78	-0.010496	±2.5	PASS
Band5	3MHz	QPSK	20525	15RB#0	NV	20	1.49	0.001781	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-30	-11.12	-0.013121	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	-20	-8.10	-0.009558	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	0	-3.72	-0.004389	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	10	-11.56	-0.013640	±2.5	PASS
Band5	3MHz	QPSK	20635	15RB#0	NV	20	-5.65	-0.006667	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-30	-4.94	-0.005984	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	-20	-5.82	-0.007050	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	0	-13.50	-0.016354	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	10	-9.18	-0.011121	±2.5	PASS
Band5	3MHz	16QAM	20415	15RB#0	NV	20	-13.58	-0.016451	±2.5	PASS

Band5	3MHz	16QAM	20525	15RB#0	NV	-30	-9.47	-0.011321	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	-20	-3.68	-0.004399	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	0	-10.00	-0.011955	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	10	-10.84	-0.012959	±2.5	PASS
Band5	3MHz	16QAM	20525	15RB#0	NV	20	-1.99	-0.002379	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-30	-10.89	-0.012850	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	-20	-10.40	-0.012271	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	0	-1.97	-0.002324	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	10	-10.20	-0.012035	±2.5	PASS
Band5	3MHz	16QAM	20635	15RB#0	NV	20	-10.39	-0.012260	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-30	-13.15	-0.015910	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	-20	-5.65	-0.006836	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	0	-9.40	-0.011373	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	10	-12.37	-0.014967	±2.5	PASS
Band5	5MHz	QPSK	20425	25RB#0	NV	20	-4.66	-0.005638	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-30	-3.69	-0.004411	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	-20	-3.68	-0.004399	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	0	-4.39	-0.005248	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	10	-10.20	-0.012194	±2.5	PASS
Band5	5MHz	QPSK	20525	25RB#0	NV	20	-10.29	-0.012301	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-30	-8.24	-0.009734	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	-20	-8.35	-0.009864	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	0	-7.45	-0.008801	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	10	-5.74	-0.006781	±2.5	PASS
Band5	5MHz	QPSK	20625	25RB#0	NV	20	-3.68	-0.004347	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-30	-10.17	-0.012305	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	-20	-10.63	-0.012861	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	0	-6.71	-0.008119	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	10	-12.97	-0.015693	±2.5	PASS
Band5	5MHz	16QAM	20425	25RB#0	NV	20	-9.37	-0.011337	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-30	-10.07	-0.012038	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	-20	-10.44	-0.012481	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	0	-8.75	-0.010460	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	10	-13.22	-0.015804	±2.5	PASS
Band5	5MHz	16QAM	20525	25RB#0	NV	20	-9.86	-0.011787	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-30	-12.32	-0.014554	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	-20	-13.15	-0.015535	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	0	2.88	0.003402	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	10	-4.71	-0.005564	±2.5	PASS
Band5	5MHz	16QAM	20625	25RB#0	NV	20	-7.17	-0.008470	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	-30	-10.07	-0.012147	±2.5	PASS

Band5	10MHz	QPSK	20450	50RB#0	NV	-20	-14.31	-0.017262	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	0	-6.97	-0.008408	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	10	-8.78	-0.010591	±2.5	PASS
Band5	10MHz	QPSK	20450	50RB#0	NV	20	-11.23	-0.013546	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-30	-12.76	-0.015254	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	-20	-12.70	-0.015182	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	0	-7.40	-0.008846	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	10	-12.56	-0.015015	±2.5	PASS
Band5	10MHz	QPSK	20525	50RB#0	NV	20	-10.01	-0.011967	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-30	-15.31	-0.018140	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	-20	-12.79	-0.015154	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	0	-11.73	-0.013898	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	10	-11.12	-0.013175	±2.5	PASS
Band5	10MHz	QPSK	20600	50RB#0	NV	20	-9.33	-0.011055	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-30	-3.79	-0.004572	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	-20	-10.86	-0.013100	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	0	-10.61	-0.012799	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	10	-14.02	-0.016912	±2.5	PASS
Band5	10MHz	16QAM	20450	50RB#0	NV	20	-15.11	-0.018227	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-30	-8.73	-0.010436	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	-20	-10.43	-0.012469	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	0	-6.62	-0.007914	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	10	-4.49	-0.005368	±2.5	PASS
Band5	10MHz	16QAM	20525	50RB#0	NV	20	-5.36	-0.006408	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-30	-9.10	-0.010782	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	-20	-12.17	-0.014419	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	0	-13.69	-0.016220	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	10	-8.20	-0.009716	±2.5	PASS
Band5	10MHz	16QAM	20600	50RB#0	NV	20	-11.00	-0.013033	±2.5	PASS