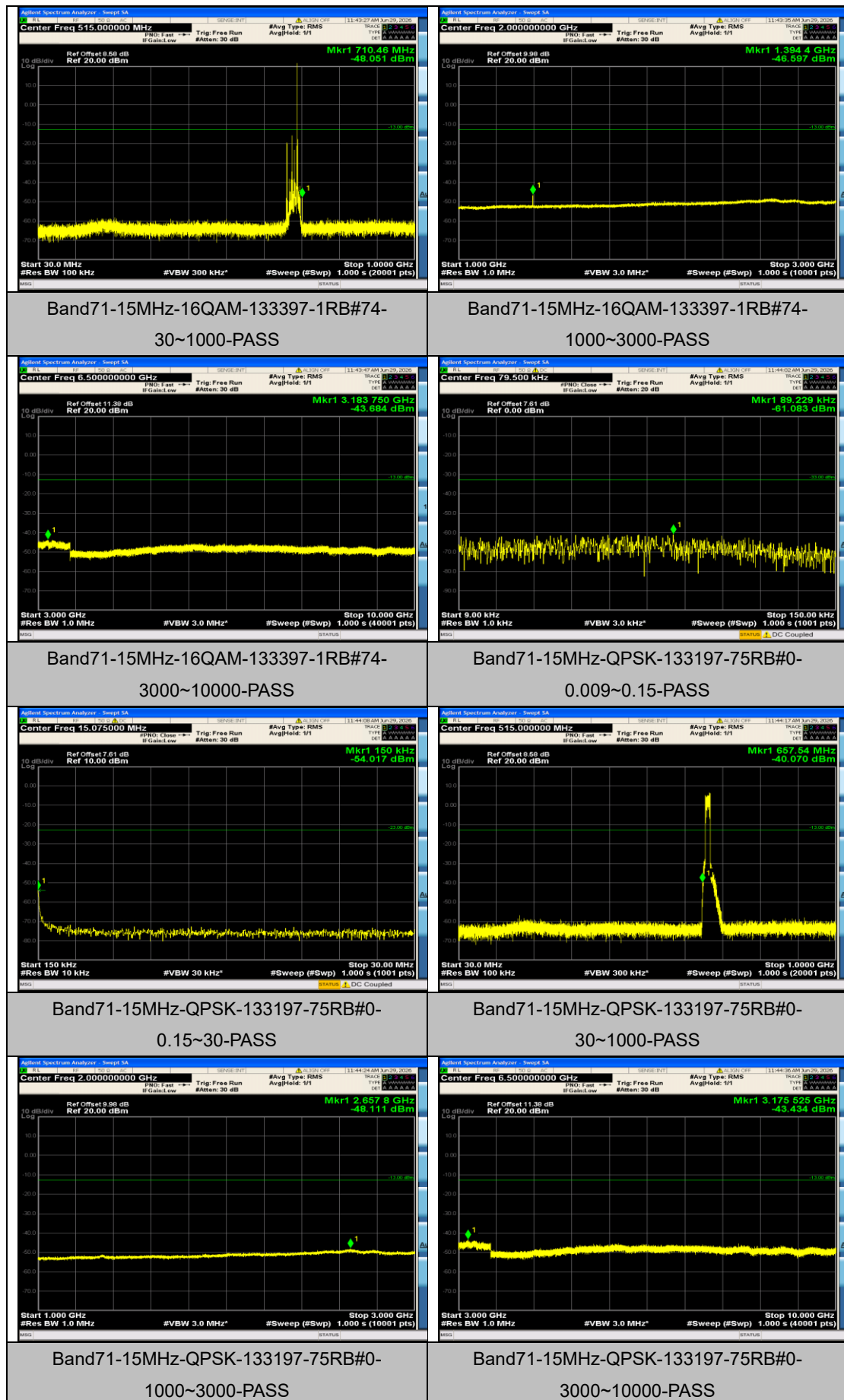
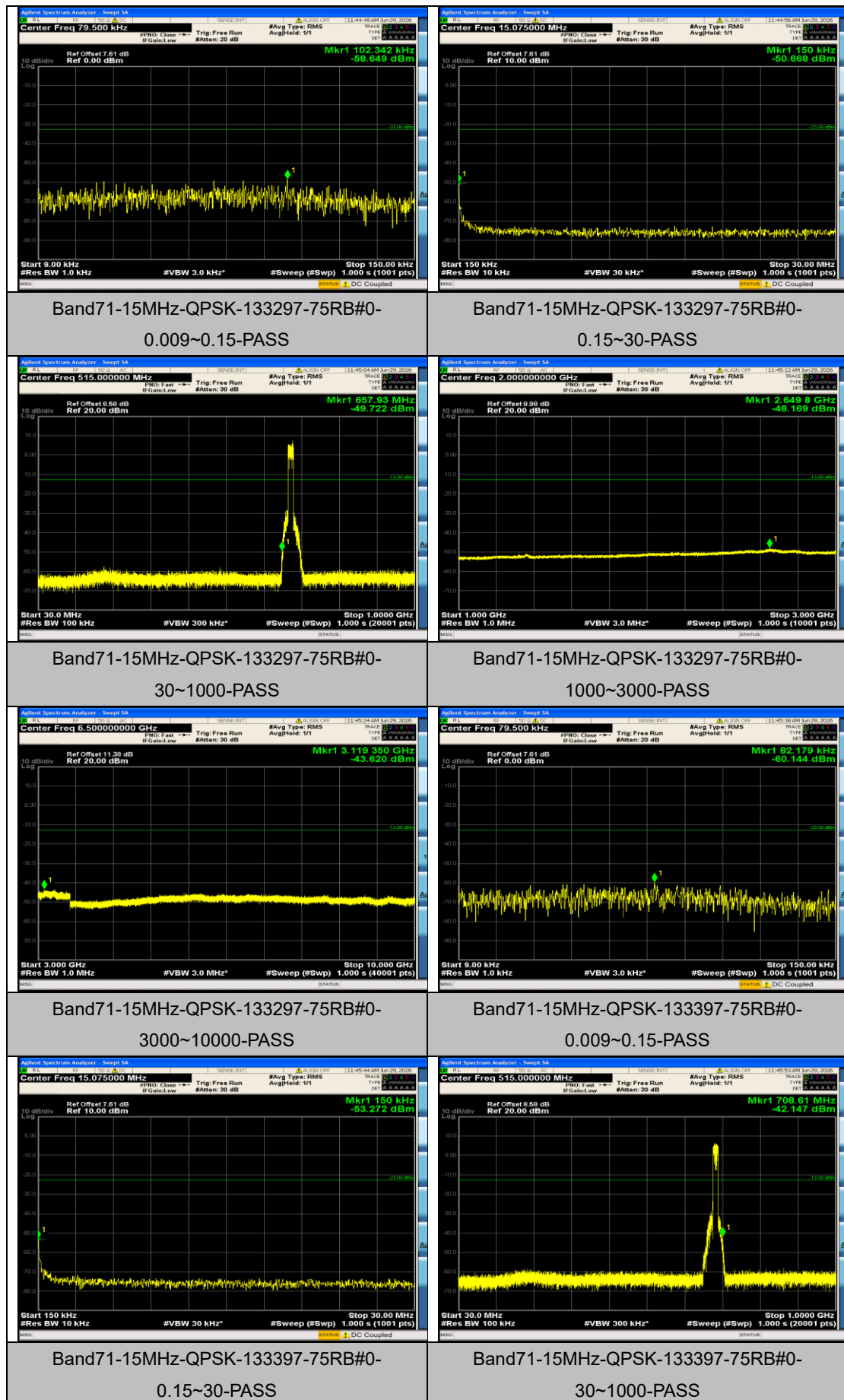
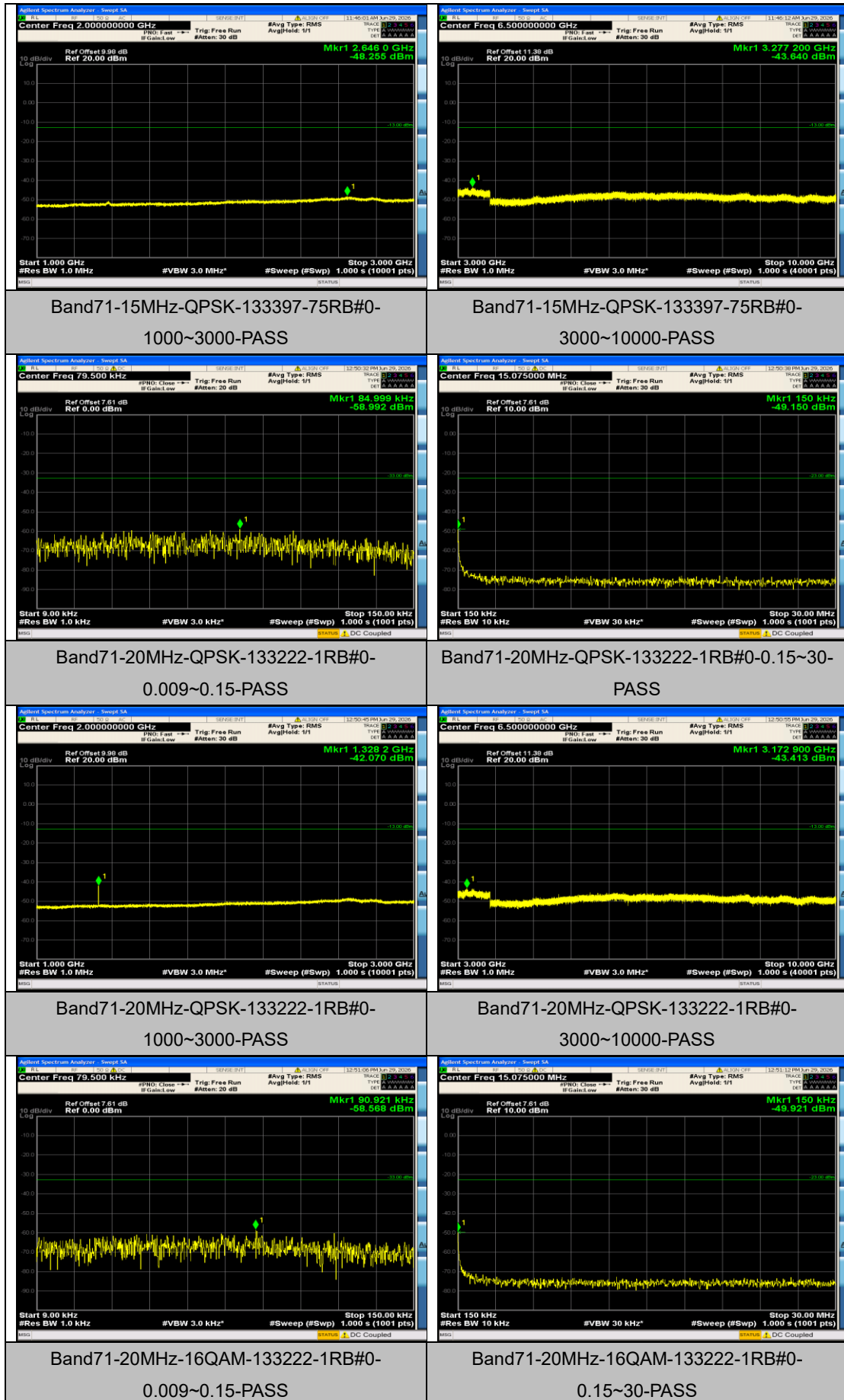
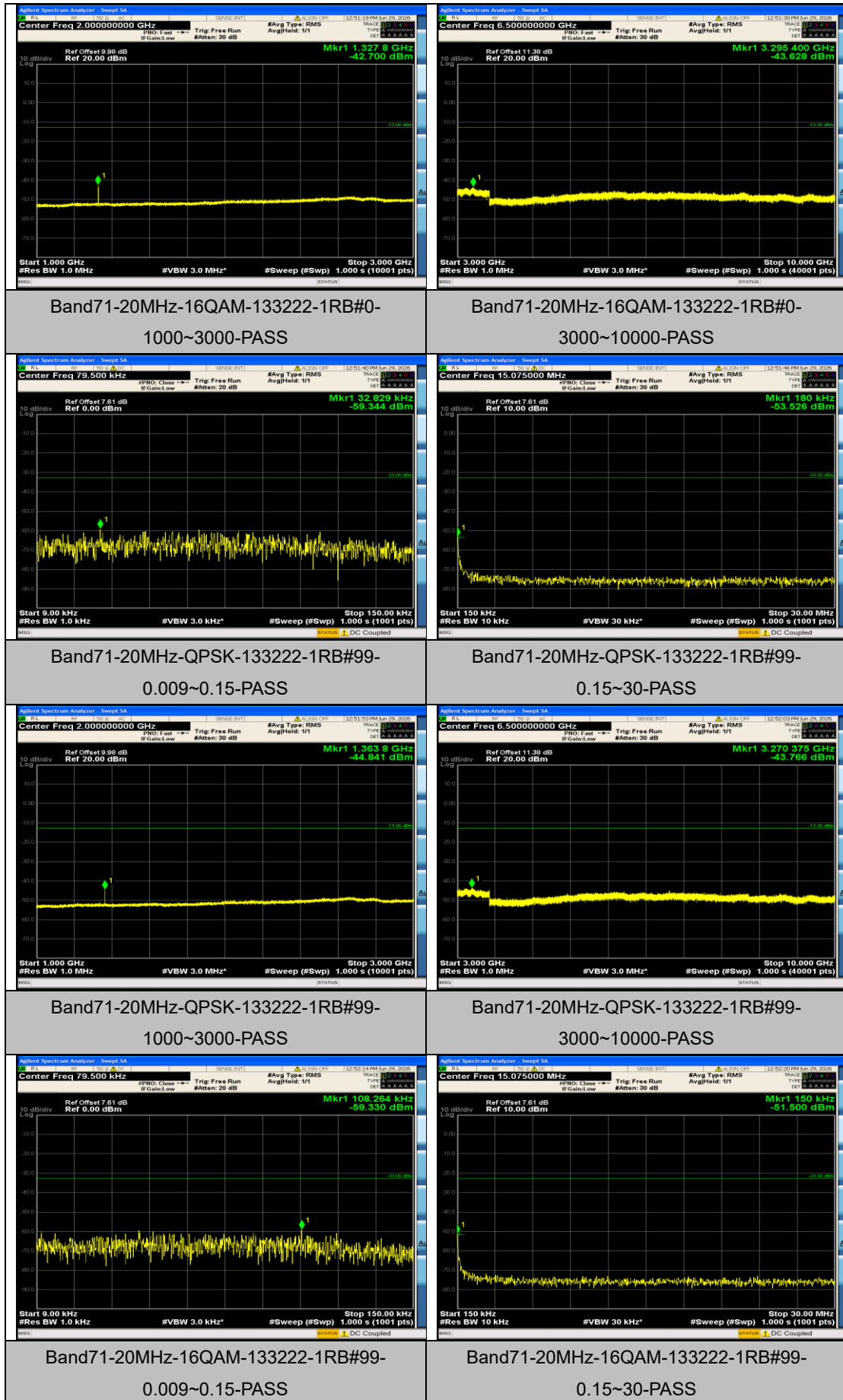
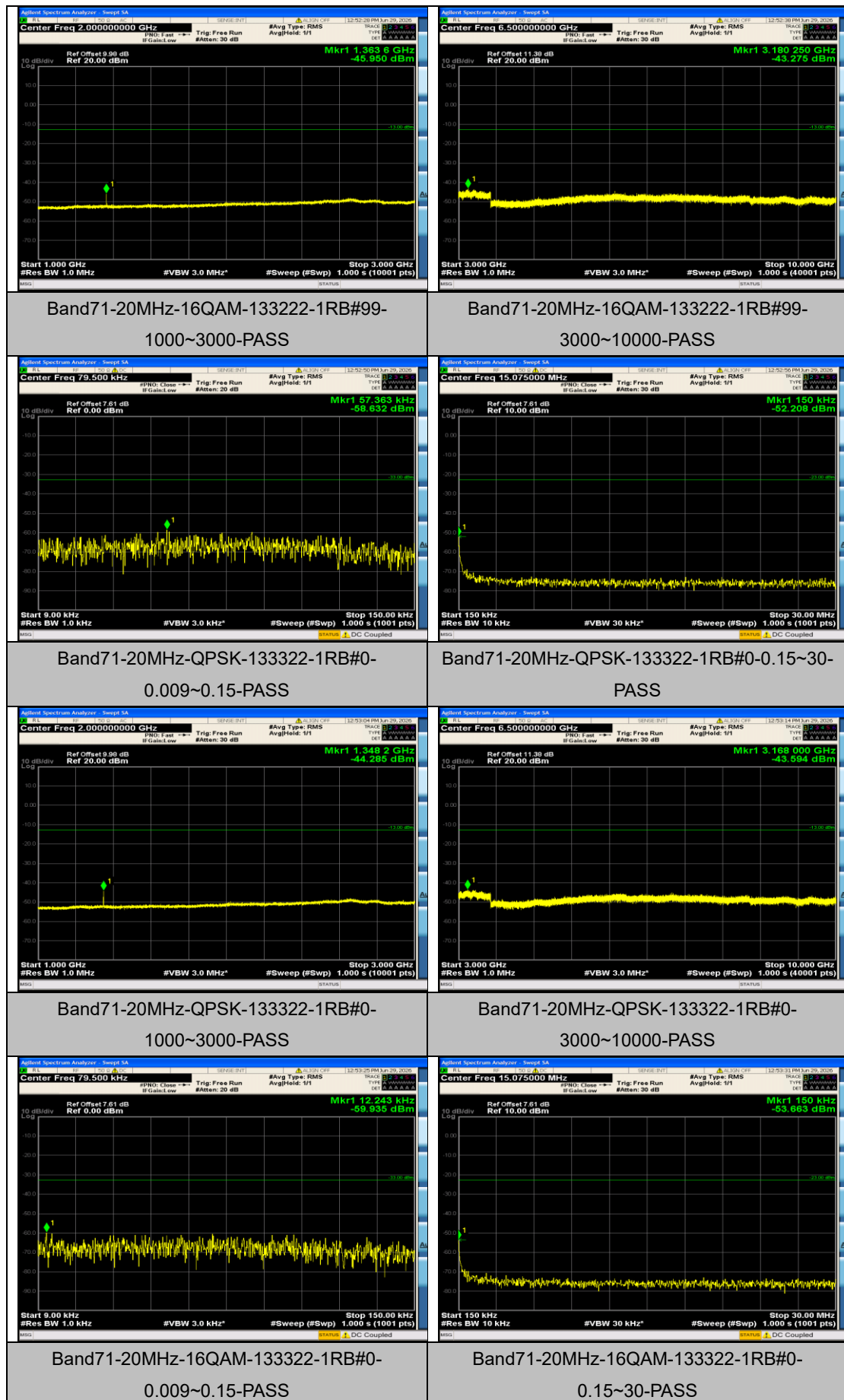


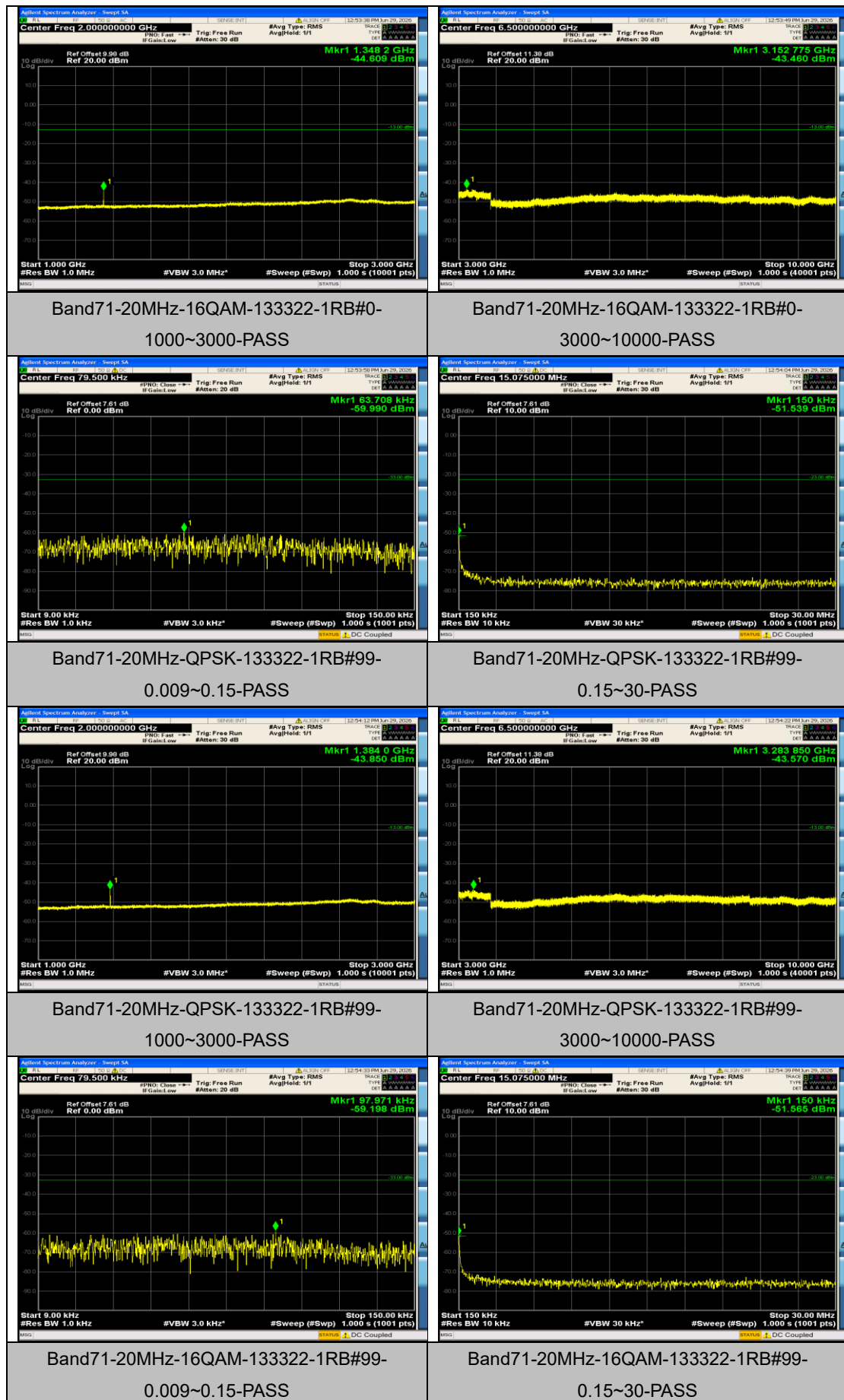


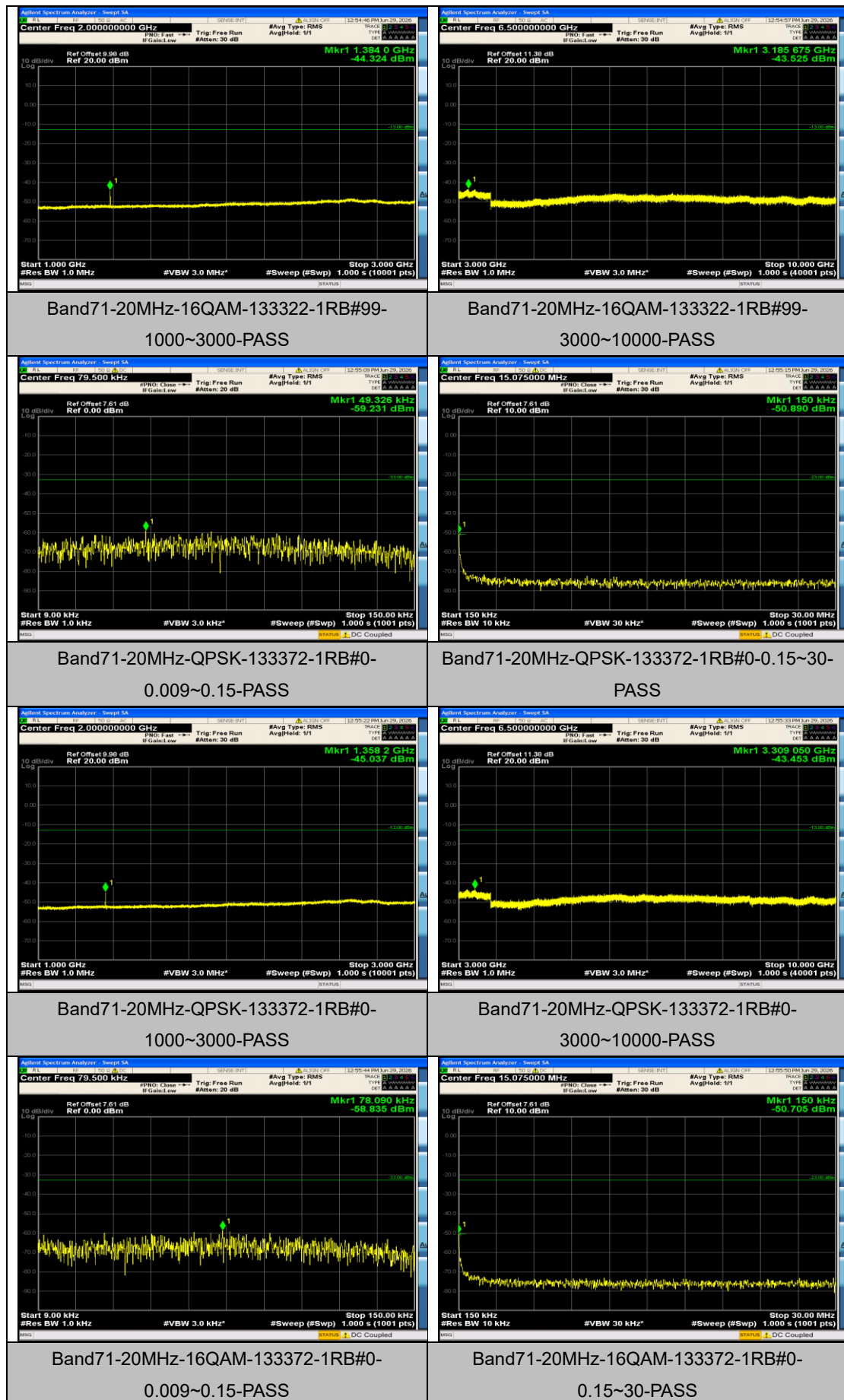


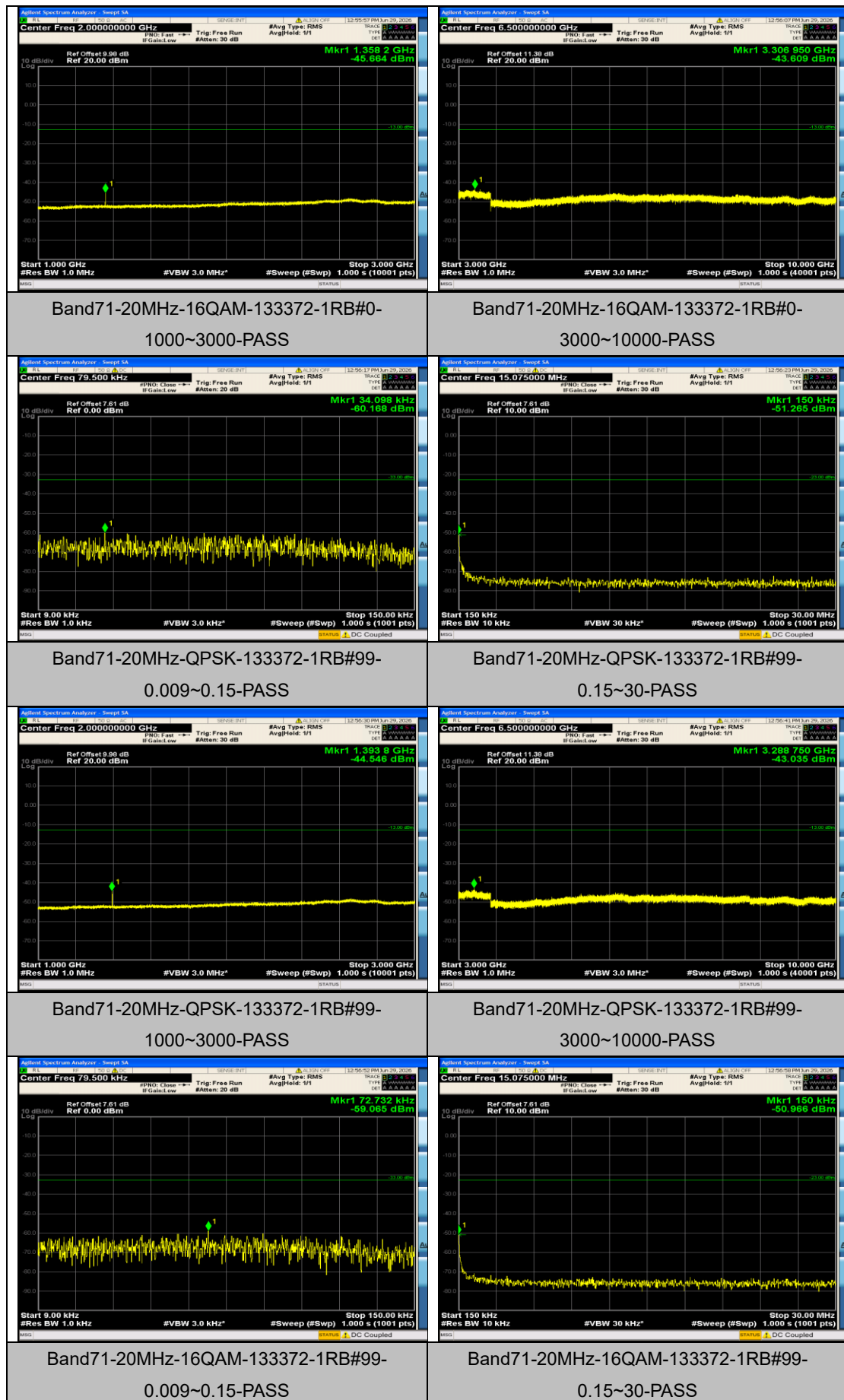


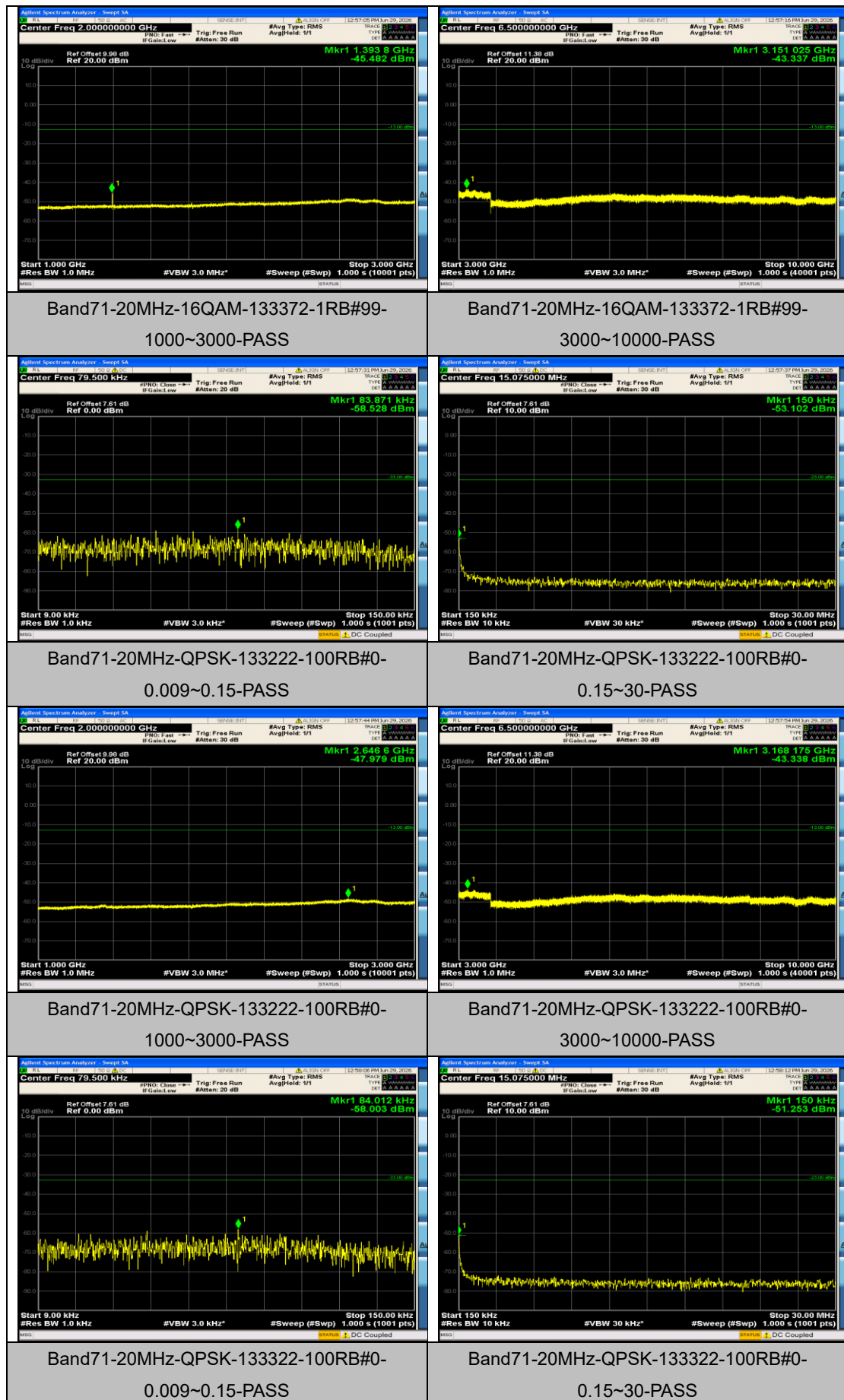


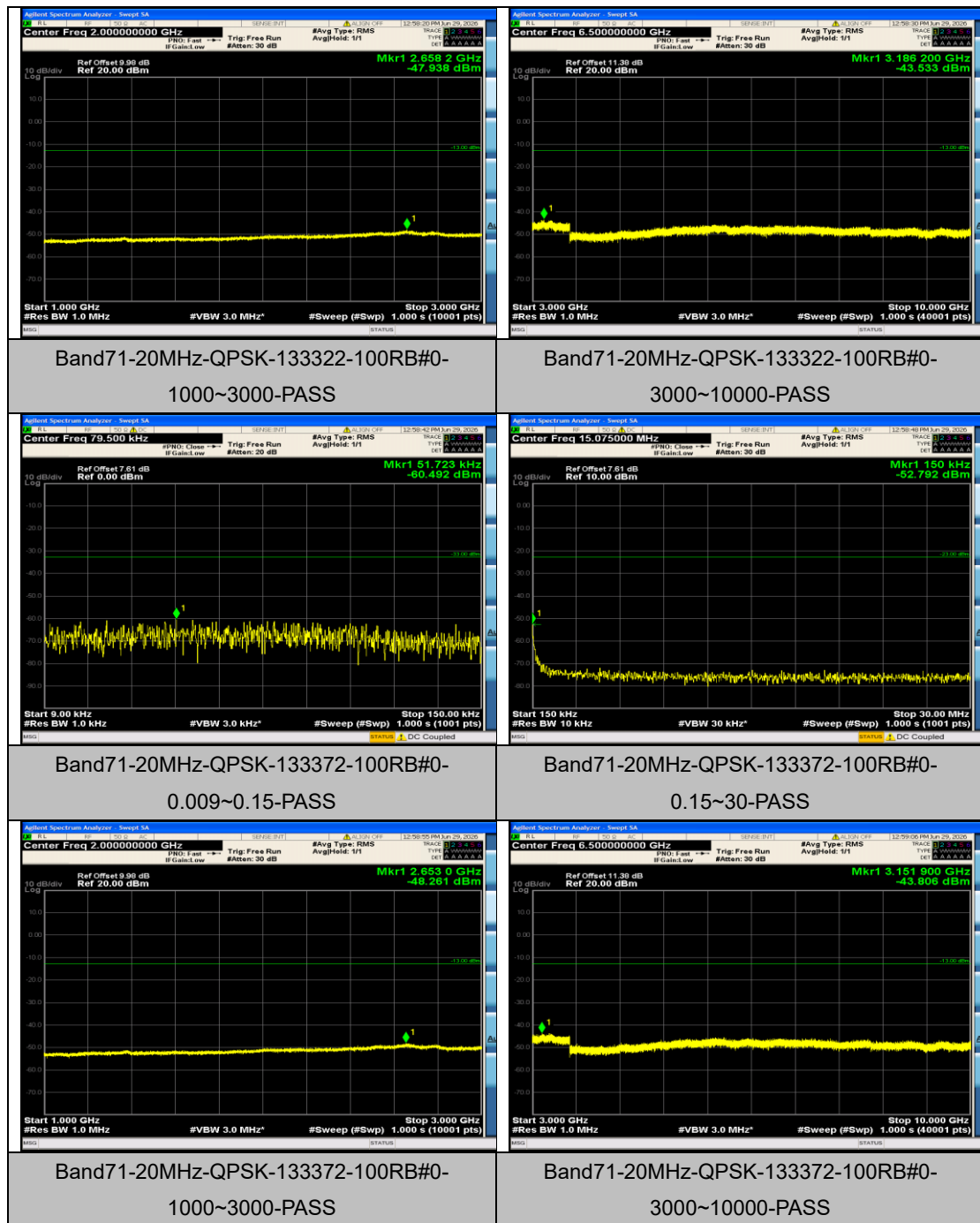












Appendix F: Frequency Stability

Test Result

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band71	5MHz	QPSK	133147	25RB#0	NV	-30	2130.00	3.200601	±2.5	PASS
Band71	5MHz	QPSK	133147	25RB#0	NV	-20	-300.00	-0.450789	±2.5	PASS
Band71	5MHz	QPSK	133147	25RB#0	NV	-10	230.00	0.345605	±2.5	PASS
Band71	5MHz	QPSK	133147	25RB#0	NV	0	650.00	0.976709	±2.5	PASS
Band71	5MHz	QPSK	133147	25RB#0	NV	10	1050.00	1.577761	±2.5	PASS
Band71	5MHz	QPSK	133147	25RB#0	NV	20	1140.00	1.712998	±2.5	PASS
Band71	5MHz	QPSK	133147	25RB#0	NV	30	1570.00	2.359128	±2.5	PASS
Band71	5MHz	QPSK	133147	25RB#0	NV	40	1280.00	1.923366	±2.5	PASS
Band71	5MHz	QPSK	133147	25RB#0	NV	50	1720.00	2.584523	±2.5	PASS
Band71	5MHz	16QAM	133147	25RB#0	NV	-30	4050.00	6.085650	±2.5	PASS
Band71	5MHz	16QAM	133147	25RB#0	NV	-20	3900.00	5.860255	±2.5	PASS
Band71	5MHz	16QAM	133147	25RB#0	NV	-10	2340.00	3.516153	±2.5	PASS
Band71	5MHz	16QAM	133147	25RB#0	NV	0	3980.00	5.980466	±2.5	PASS
Band71	5MHz	16QAM	133147	25RB#0	NV	10	3890.00	5.845229	±2.5	PASS
Band71	5MHz	16QAM	133147	25RB#0	NV	20	4140.00	6.220887	±2.5	PASS
Band71	5MHz	16QAM	133147	25RB#0	NV	30	4310.00	6.476334	±2.5	PASS
Band71	5MHz	16QAM	133147	25RB#0	NV	40	4340.00	6.521412	±2.5	PASS
Band71	5MHz	16QAM	133147	25RB#0	NV	50	5030.00	7.558227	±2.5	PASS
Band71	5MHz	QPSK	13329	25RB#0	NV	-30	-1110.00	-1.631154	±2.5	PASS

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Band71	5MHz	QPSK	13329 7	25RB#0	NV	-20	-2530.00	-3.717855	±2.5	PASS
Band71	5MHz	QPSK	13329 7	25RB#0	NV	-10	-1870.00	-2.747979	±2.5	PASS
Band71	5MHz	QPSK	13329 7	25RB#0	NV	0	-3210.00	-4.717120	±2.5	PASS
Band71	5MHz	QPSK	13329 7	25RB#0	NV	10	-2000.00	-2.939015	±2.5	PASS
Band71	5MHz	QPSK	13329 7	25RB#0	NV	20	-2360.00	-3.468038	±2.5	PASS
Band71	5MHz	QPSK	13329 7	25RB#0	NV	30	-2300.00	-3.379868	±2.5	PASS
Band71	5MHz	QPSK	13329 7	25RB#0	NV	40	-1360.00	-1.998530	±2.5	PASS
Band71	5MHz	QPSK	13329 7	25RB#0	NV	50	-1830.00	-2.689199	±2.5	PASS
Band71	5MHz	16QAM	13329 7	25RB#0	NV	-30	1710.00	2.512858	±2.5	PASS
Band71	5MHz	16QAM	13329 7	25RB#0	NV	-20	1580.00	2.321822	±2.5	PASS
Band71	5MHz	16QAM	13329 7	25RB#0	NV	-10	550.00	0.808229	±2.5	PASS
Band71	5MHz	16QAM	13329 7	25RB#0	NV	0	1840.00	2.703894	±2.5	PASS
Band71	5MHz	16QAM	13329 7	25RB#0	NV	10	780.00	1.146216	±2.5	PASS
Band71	5MHz	16QAM	13329 7	25RB#0	NV	20	1240.00	1.822190	±2.5	PASS
Band71	5MHz	16QAM	13329 7	25RB#0	NV	30	1550.00	2.277737	±2.5	PASS
Band71	5MHz	16QAM	13329 7	25RB#0	NV	40	2430.00	3.570904	±2.5	PASS
Band71	5MHz	16QAM	13329 7	25RB#0	NV	50	930.00	1.366642	±2.5	PASS
Band71	5MHz	QPSK	13344 7	25RB#0	NV	-30	1780.00	2.559310	±2.5	PASS
Band71	5MHz	QPSK	13344 7	25RB#0	NV	-20	920.00	1.322789	±2.5	PASS
Band71	5MHz	QPSK	13344 7	25RB#0	NV	-10	3440.00	4.946082	±2.5	PASS
Band71	5MHz	QPSK	13344 7	25RB#0	NV	0	930.00	1.337168	±2.5	PASS

Band71	5MHz	QPSK	13344 7	25RB#0	NV	10	1950.00	2.803738	±2.5	PASS
Band71	5MHz	QPSK	13344 7	25RB#0	NV	20	2760.00	3.968368	±2.5	PASS
Band71	5MHz	QPSK	13344 7	25RB#0	NV	30	2340.00	3.364486	±2.5	PASS
Band71	5MHz	QPSK	13344 7	25RB#0	NV	40	1380.00	1.984184	±2.5	PASS
Band71	5MHz	QPSK	13344 7	25RB#0	NV	50	1850.00	2.659957	±2.5	PASS
Band71	5MHz	16QAM	13344 7	25RB#0	NV	-30	2290.00	3.292595	±2.5	PASS
Band71	5MHz	16QAM	13344 7	25RB#0	NV	-20	3270.00	4.701653	±2.5	PASS
Band71	5MHz	16QAM	13344 7	25RB#0	NV	-10	2390.00	3.436377	±2.5	PASS
Band71	5MHz	16QAM	13344 7	25RB#0	NV	0	2260.00	3.249461	±2.5	PASS
Band71	5MHz	16QAM	13344 7	25RB#0	NV	10	3300.00	4.744788	±2.5	PASS
Band71	5MHz	16QAM	13344 7	25RB#0	NV	20	4300.00	6.182602	±2.5	PASS
Band71	5MHz	16QAM	13344 7	25RB#0	NV	30	2540.00	3.652049	±2.5	PASS
Band71	5MHz	16QAM	13344 7	25RB#0	NV	40	2730.00	3.925234	±2.5	PASS
Band71	5MHz	16QAM	13344 7	25RB#0	NV	50	2510.00	3.608914	±2.5	PASS
Band71	10MHz	QPSK	13317 2	50RB#0	NV	-30	12840.00	19.221557	±2.5	PASS
Band71	10MHz	QPSK	13317 2	50RB#0	NV	-20	9620.00	14.401198	±2.5	PASS
Band71	10MHz	QPSK	13317 2	50RB#0	NV	-10	12890.00	19.296407	±2.5	PASS
Band71	10MHz	QPSK	13317 2	50RB#0	NV	0	11420.00	17.095808	±2.5	PASS
Band71	10MHz	QPSK	13317 2	50RB#0	NV	10	13700.00	20.508982	±2.5	PASS
Band71	10MHz	QPSK	13317 2	50RB#0	NV	20	10090.00	15.104790	±2.5	PASS
Band71	10MHz	QPSK	13317 2	50RB#0	NV	30	8630.00	12.919162	±2.5	PASS
Band71	10MHz	QPSK	13317	50RB#0	NV	40	10870.00	16.272455	±2.5	PASS

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Band71	10MHz	QPSK	13317 2	50RB#0	NV	50	11890.00	17.799401	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	NV	-30	-500.00	-0.734754	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	NV	-20	100.00	0.146951	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	NV	-10	790.00	1.160911	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	NV	0	1150.00	1.689934	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	NV	10	310.00	0.455547	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	NV	20	970.00	1.425422	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	NV	30	4150.00	6.098457	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	NV	40	3870.00	5.686995	±2.5	PASS
Band71	10MHz	QPSK	13329 7	50RB#0	NV	50	80.00	0.117561	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	NV	-30	-10410.00	-15.021645	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	NV	-20	-9510.00	-13.722944	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	NV	-10	-8560.00	-12.352092	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	NV	0	-9440.00	-13.621934	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	NV	10	-10390.00	-14.992785	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	NV	20	-8100.00	-11.688312	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	NV	30	-10930.00	-15.772006	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	NV	40	-11050.00	-15.945166	±2.5	PASS
Band71	10MHz	QPSK	13342 2	50RB#0	NV	50	-10310.00	-14.877345	±2.5	PASS
Band71	15MHz	QPSK	13319 7	75RB#0	NV	-30	14010.00	20.894855	±2.5	PASS
Band71	15MHz	QPSK	13319 7	75RB#0	NV	-20	18700.00	27.889635	±2.5	PASS

Band71	15MHz	QPSK	13319 7	75RB#0	NV	-10	13620.00	20.313199	±2.5	PASS
Band71	15MHz	QPSK	13319 7	75RB#0	NV	0	15880.00	23.683818	±2.5	PASS
Band71	15MHz	QPSK	13319 7	75RB#0	NV	10	14140.00	21.088740	±2.5	PASS
Band71	15MHz	QPSK	13319 7	75RB#0	NV	20	12780.00	19.060403	±2.5	PASS
Band71	15MHz	QPSK	13319 7	75RB#0	NV	30	10530.00	15.704698	±2.5	PASS
Band71	15MHz	QPSK	13319 7	75RB#0	NV	40	13130.00	19.582401	±2.5	PASS
Band71	15MHz	QPSK	13319 7	75RB#0	NV	50	18840.00	28.098434	±2.5	PASS
Band71	15MHz	16QAM	13319 7	75RB#0	NV	-30	11970.00	17.852349	±2.5	PASS
Band71	15MHz	16QAM	13319 7	75RB#0	NV	-20	15890.00	23.698732	±2.5	PASS
Band71	15MHz	16QAM	13319 7	75RB#0	NV	-10	12700.00	18.941089	±2.5	PASS
Band71	15MHz	16QAM	13319 7	75RB#0	NV	0	16270.00	24.265474	±2.5	PASS
Band71	15MHz	16QAM	13319 7	75RB#0	NV	10	13530.00	20.178971	±2.5	PASS
Band71	15MHz	16QAM	13319 7	75RB#0	NV	20	14560.00	21.715138	±2.5	PASS
Band71	15MHz	16QAM	13319 7	75RB#0	NV	30	13290.00	19.821029	±2.5	PASS
Band71	15MHz	16QAM	13319 7	75RB#0	NV	40	6480.00	9.664430	±2.5	PASS
Band71	15MHz	16QAM	13319 7	75RB#0	NV	50	11640.00	17.360179	±2.5	PASS
Band71	15MHz	QPSK	13329 7	75RB#0	NV	-30	-12630.00	-18.559882	±2.5	PASS
Band71	15MHz	QPSK	13329 7	75RB#0	NV	-20	-12940.00	-19.015430	±2.5	PASS
Band71	15MHz	QPSK	13329 7	75RB#0	NV	-10	-15330.00	-22.527553	±2.5	PASS
Band71	15MHz	QPSK	13329 7	75RB#0	NV	0	-13630.00	-20.029390	±2.5	PASS
Band71	15MHz	QPSK	13329 7	75RB#0	NV	10	-11980.00	-17.604702	±2.5	PASS
Band71	15MHz	QPSK	13329	75RB#0	NV	20	-13190.00	-19.382807	±2.5	PASS

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Band71	15MHz	QPSK	13329 7	75RB#0	NV	30	-11240.00	-16.517267	±2.5	PASS
Band71	15MHz	QPSK	13329 7	75RB#0	NV	40	-12100.00	-17.781043	±2.5	PASS
Band71	15MHz	QPSK	13329 7	75RB#0	NV	50	-12230.00	-17.972079	±2.5	PASS
Band71	15MHz	16QAM	13329 7	75RB#0	NV	-30	-15460.00	-22.718589	±2.5	PASS
Band71	15MHz	16QAM	13329 7	75RB#0	NV	-20	-14210.00	-20.881705	±2.5	PASS
Band71	15MHz	16QAM	13329 7	75RB#0	NV	-10	-16470.00	-24.202792	±2.5	PASS
Band71	15MHz	16QAM	13329 7	75RB#0	NV	0	-8950.00	-13.152094	±2.5	PASS
Band71	15MHz	16QAM	13329 7	75RB#0	NV	10	-11620.00	-17.075680	±2.5	PASS
Band71	15MHz	16QAM	13329 7	75RB#0	NV	20	-12600.00	-18.515797	±2.5	PASS
Band71	15MHz	16QAM	13329 7	75RB#0	NV	30	-16320.00	-23.982366	±2.5	PASS
Band71	15MHz	16QAM	13329 7	75RB#0	NV	40	-15090.00	-22.174871	±2.5	PASS
Band71	15MHz	16QAM	13329 7	75RB#0	NV	50	-17510.00	-25.731080	±2.5	PASS
Band71	15MHz	QPSK	13339 7	75RB#0	NV	-30	890.00	1.288921	±2.5	PASS
Band71	15MHz	QPSK	13339 7	75RB#0	NV	-20	-4540.00	-6.574946	±2.5	PASS
Band71	15MHz	QPSK	13339 7	75RB#0	NV	-10	1800.00	2.606807	±2.5	PASS
Band71	15MHz	QPSK	13339 7	75RB#0	NV	0	-3560.00	-5.155684	±2.5	PASS
Band71	15MHz	QPSK	13339 7	75RB#0	NV	10	-1550.00	-2.244750	±2.5	PASS
Band71	15MHz	QPSK	13339 7	75RB#0	NV	20	-530.00	-0.767560	±2.5	PASS
Band71	15MHz	QPSK	13339 7	75RB#0	NV	30	-7950.00	-11.513396	±2.5	PASS
Band71	15MHz	QPSK	13339 7	75RB#0	NV	40	-770.00	-1.115134	±2.5	PASS
Band71	15MHz	QPSK	13339 7	75RB#0	NV	50	-2120.00	-3.070239	±2.5	PASS

Band71	15MHz	16QAM	13339 7	75RB#0	NV	-30	-10540.00	-15.264301	±2.5	PASS
Band71	15MHz	16QAM	13339 7	75RB#0	NV	-20	-1580.00	-2.288197	±2.5	PASS
Band71	15MHz	16QAM	13339 7	75RB#0	NV	-10	-1280.00	-1.853729	±2.5	PASS
Band71	15MHz	16QAM	13339 7	75RB#0	NV	0	-1330.00	-1.926140	±2.5	PASS
Band71	15MHz	16QAM	13339 7	75RB#0	NV	10	-5990.00	-8.674873	±2.5	PASS
Band71	20MHz	QPSK	13322 2	100RB#0	NV	-30	22680.00	33.699851	±2.5	PASS
Band71	20MHz	QPSK	13322 2	100RB#0	NV	-20	16420.00	24.398217	±2.5	PASS
Band71	20MHz	QPSK	13322 2	100RB#0	NV	-10	16500.00	24.517088	±2.5	PASS
Band71	20MHz	QPSK	13322 2	100RB#0	NV	0	24340.00	36.166419	±2.5	PASS
Band71	20MHz	QPSK	13322 2	100RB#0	NV	10	15030.00	22.332838	±2.5	PASS
Band71	15MHz	16QAM	13339 7	75RB#0	NV	20	140.00	0.202752	±2.5	PASS
Band71	15MHz	16QAM	13339 7	75RB#0	NV	30	-2860.00	-4.141926	±2.5	PASS
Band71	15MHz	16QAM	13339 7	75RB#0	NV	40	-360.00	-0.521361	±2.5	PASS
Band71	15MHz	16QAM	13339 7	75RB#0	NV	50	-1930.00	-2.795076	±2.5	PASS
Band71	20MHz	QPSK	13322 2	100RB#0	NV	20	20030.00	29.762259	±2.5	PASS
Band71	20MHz	QPSK	13322 2	100RB#0	NV	30	20140.00	29.925706	±2.5	PASS
Band71	20MHz	QPSK	13322 2	100RB#0	NV	40	16440.00	24.427935	±2.5	PASS
Band71	20MHz	QPSK	13322 2	100RB#0	NV	50	13040.00	19.375929	±2.5	PASS
Band71	20MHz	QPSK	13332 2	100RB#0	NV	-30	11400.00	16.691069	±2.5	PASS
Band71	20MHz	QPSK	13332 2	100RB#0	NV	-20	6740.00	9.868228	±2.5	PASS
Band71	20MHz	QPSK	13332 2	100RB#0	NV	-10	-2110.00	-3.089312	±2.5	PASS
Band71	20MHz	QPSK	13332	100RB#0	NV	0	4540.00	6.647145	±2.5	PASS

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Band71	20MHz	QPSK	13332 2	100RB#0	NV	10	5950.00	8.711567	±2.5	PASS
Band71	20MHz	QPSK	13332 2	100RB#0	NV	20	-8610.00	-12.606149	±2.5	PASS
Band71	20MHz	QPSK	13332 2	100RB#0	NV	30	-1960.00	-2.869693	±2.5	PASS
Band71	20MHz	QPSK	13332 2	100RB#0	NV	40	-610.00	-0.893119	±2.5	PASS
Band71	20MHz	QPSK	13332 2	100RB#0	NV	50	7150.00	10.468521	±2.5	PASS
Band71	20MHz	QPSK	13337 2	100RB#0	NV	-30	19830.00	28.822674	±2.5	PASS
Band71	20MHz	QPSK	13337 2	100RB#0	NV	-20	12550.00	18.241279	±2.5	PASS
Band71	20MHz	QPSK	13337 2	100RB#0	NV	-10	16900.00	24.563953	±2.5	PASS
Band71	20MHz	QPSK	13337 2	100RB#0	NV	0	22020.00	32.005814	±2.5	PASS
Band71	20MHz	QPSK	13337 2	100RB#0	NV	10	25430.00	36.962209	±2.5	PASS
Band71	20MHz	QPSK	13337 2	100RB#0	NV	20	18120.00	26.337209	±2.5	PASS
Band71	20MHz	QPSK	13337 2	100RB#0	NV	30	20380.00	29.622093	±2.5	PASS
Band71	20MHz	QPSK	13337 2	100RB#0	NV	40	19730.00	28.677326	±2.5	PASS
Band71	20MHz	QPSK	13337 2	100RB#0	NV	50	19350.00	28.125000	±2.5	PASS