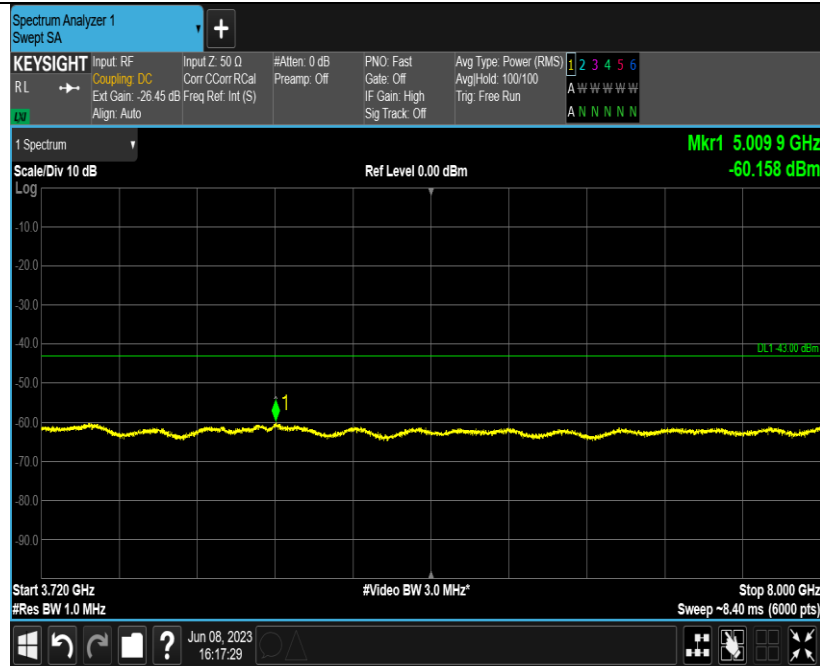
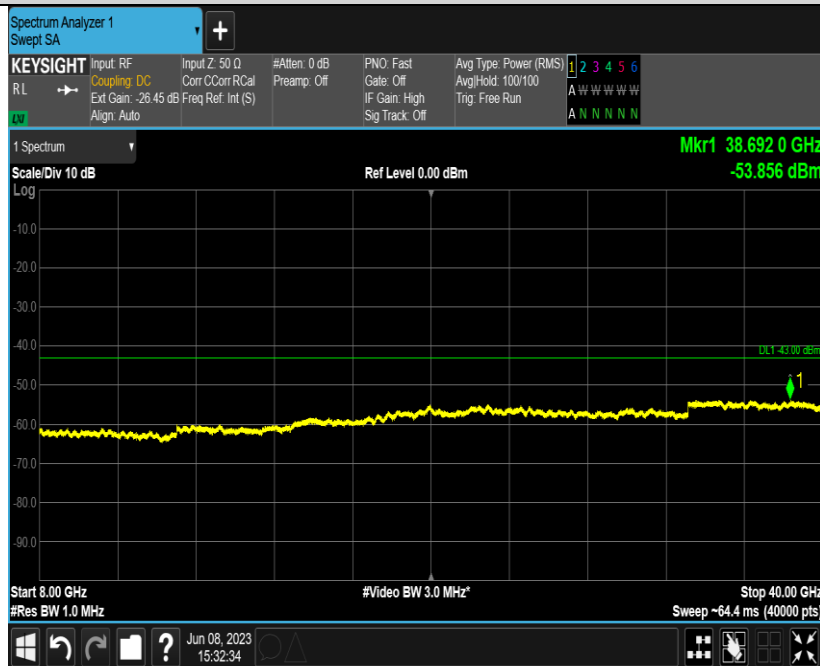
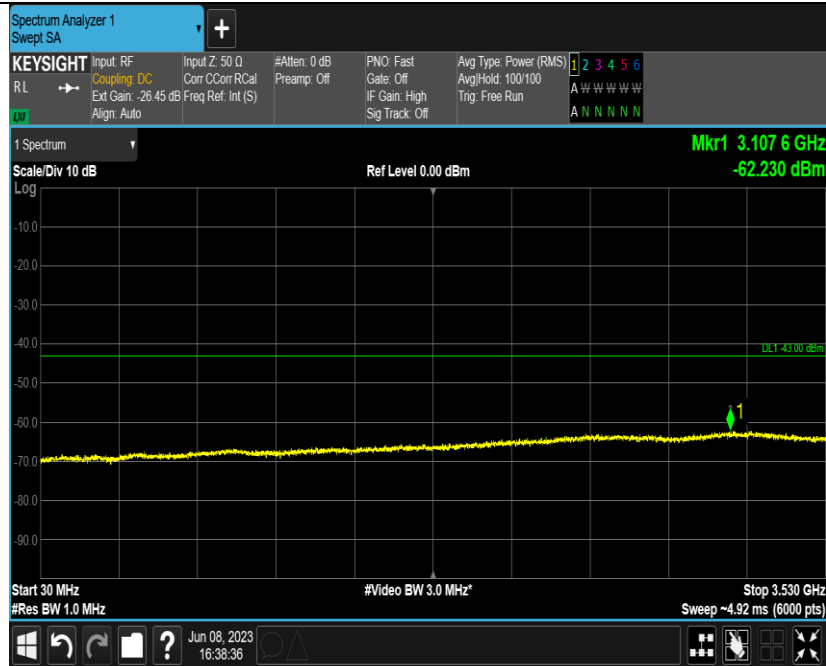




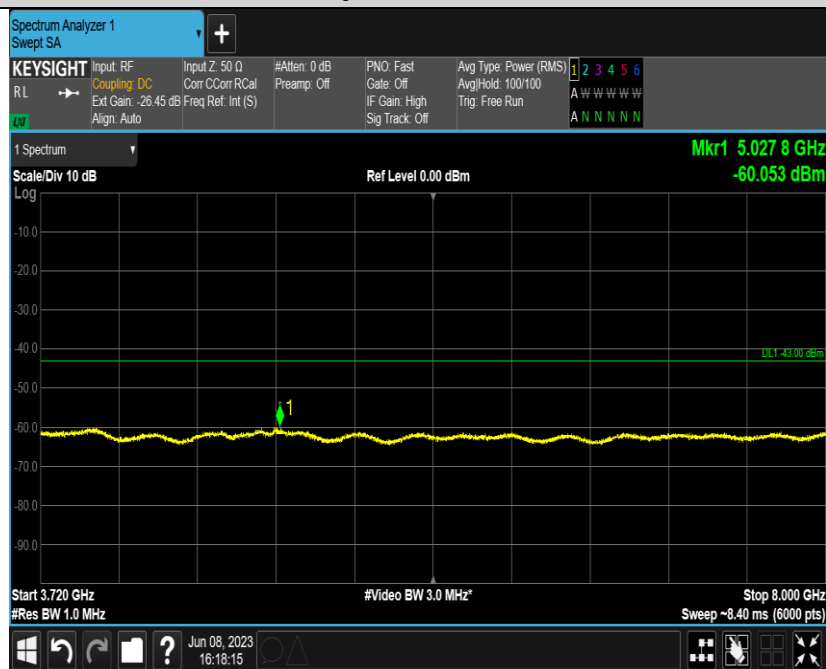
Band48-20MHz-256QAM-55990-E-TM3.1A-8000~40000



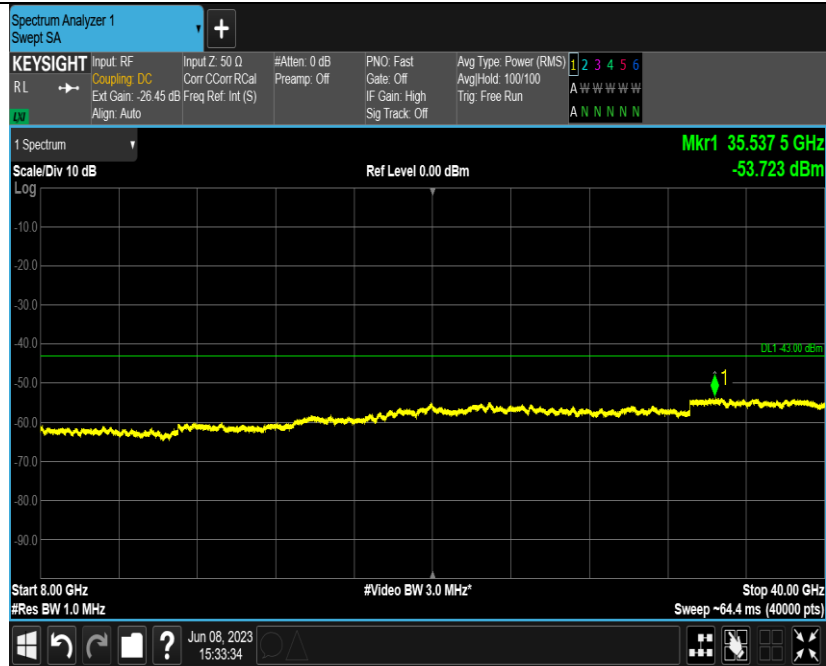
Band48-20MHz-256QAM-56640-E-TM3.1A-30~3530



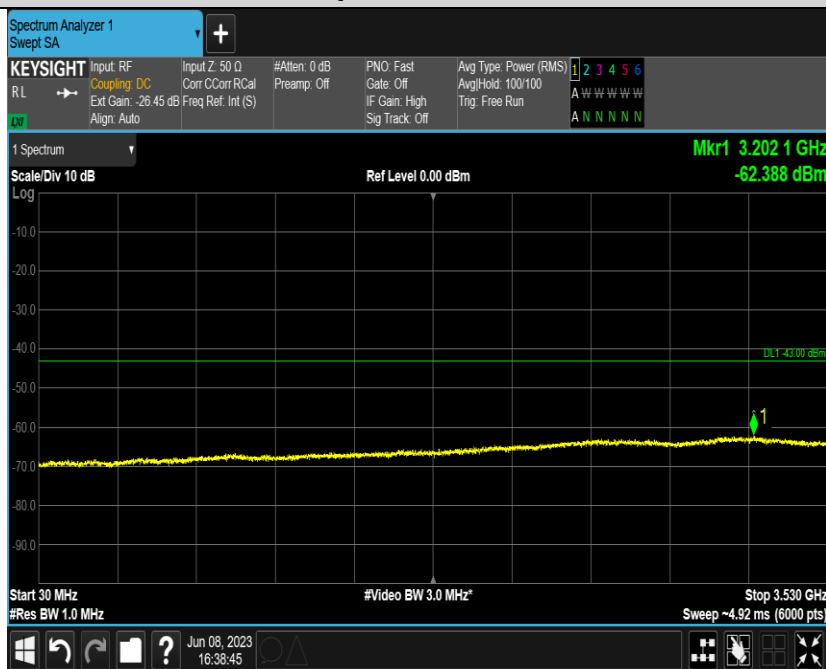
Band48-20MHz-256QAM-56640-E-TM3.1A-3720~8000



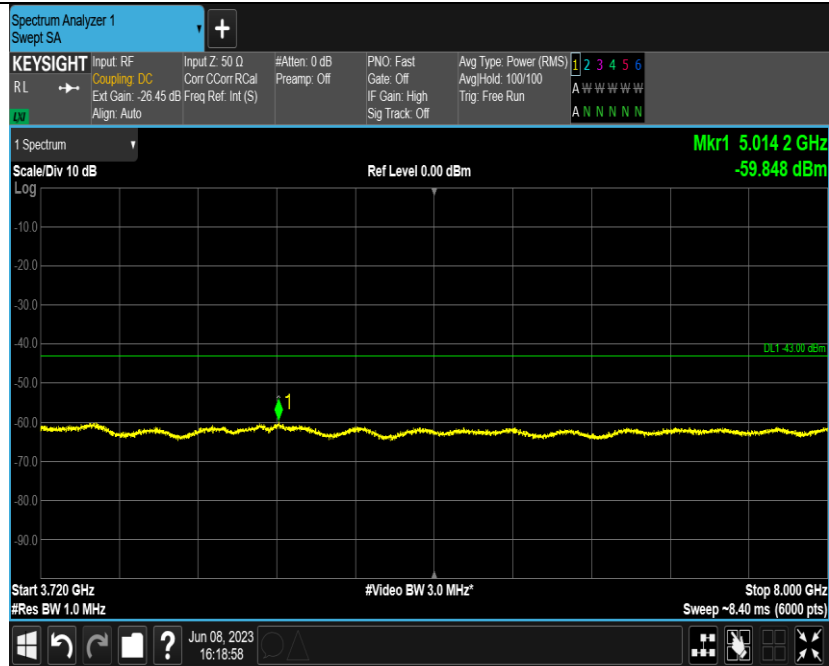
Band48-20MHz-256QAM-56640-E-TM3.1A-8000~40000



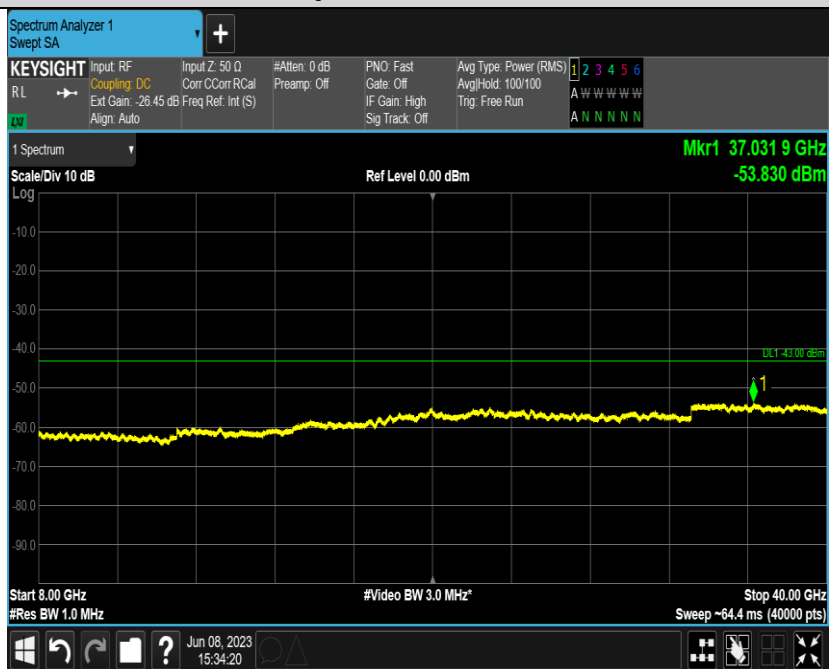
Band48-20MHz-QPSK-55340-E-TM1.1-30~3530



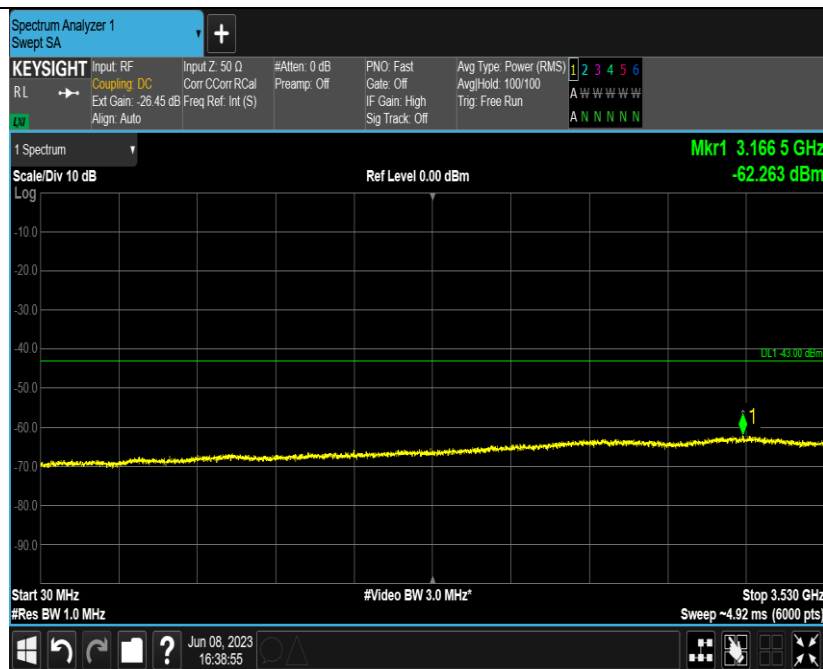
Band48-20MHz-QPSK-55340-E-TM1.1-3720~8000



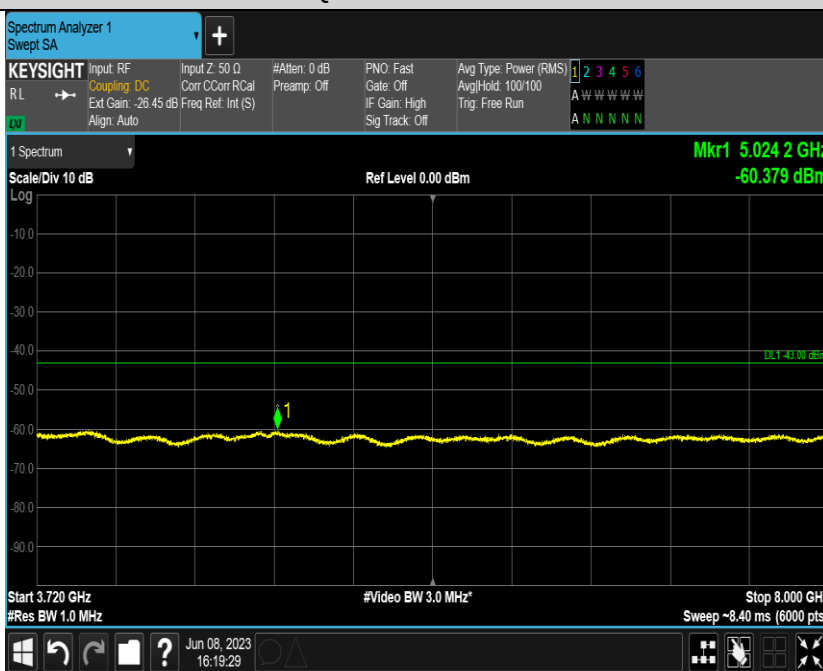
Band48-20MHz-QPSK-55340-E-TM1.1-8000~40000



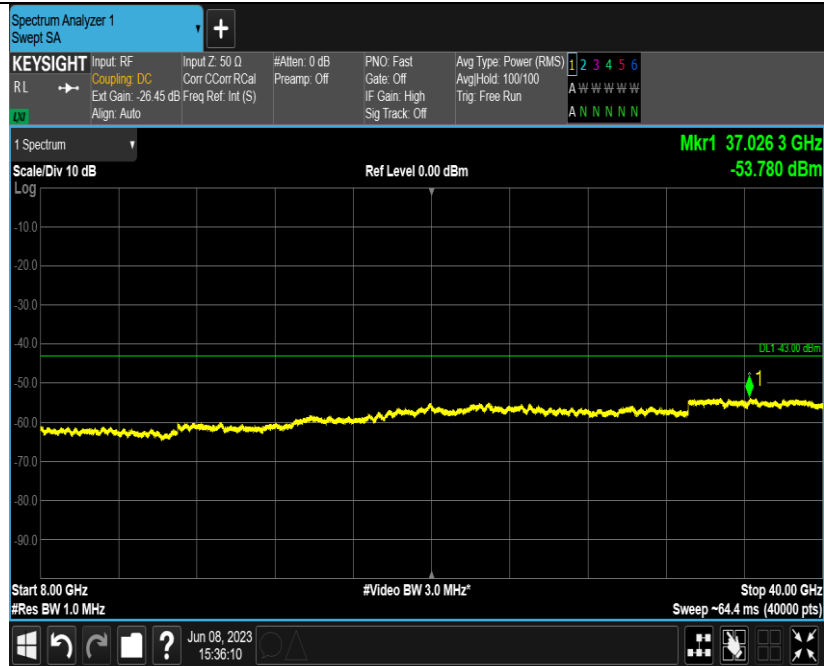
Band48-20MHz-QPSK-55990-E-TM1.1-30~3530



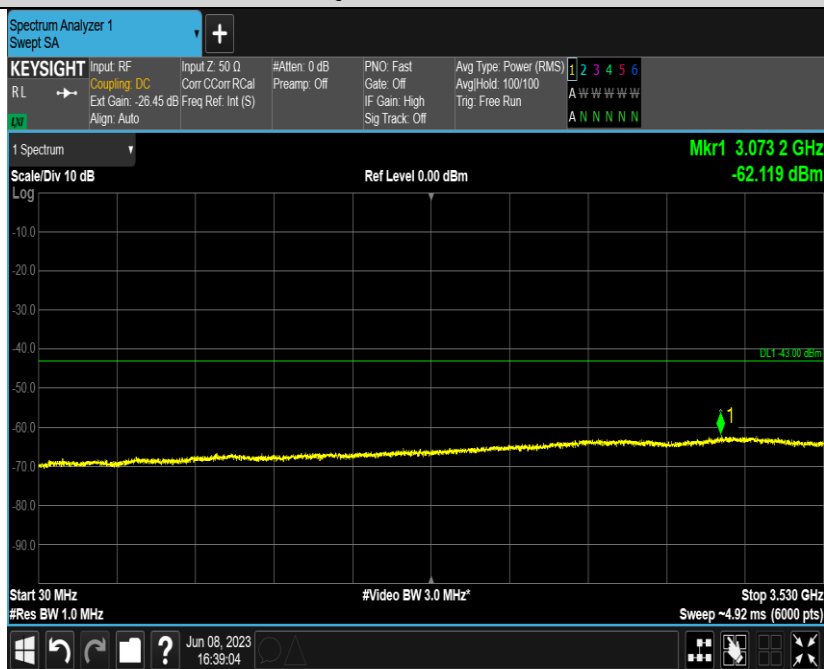
Band48-20MHz-QPSK-55990-E-TM1.1-3720~8000



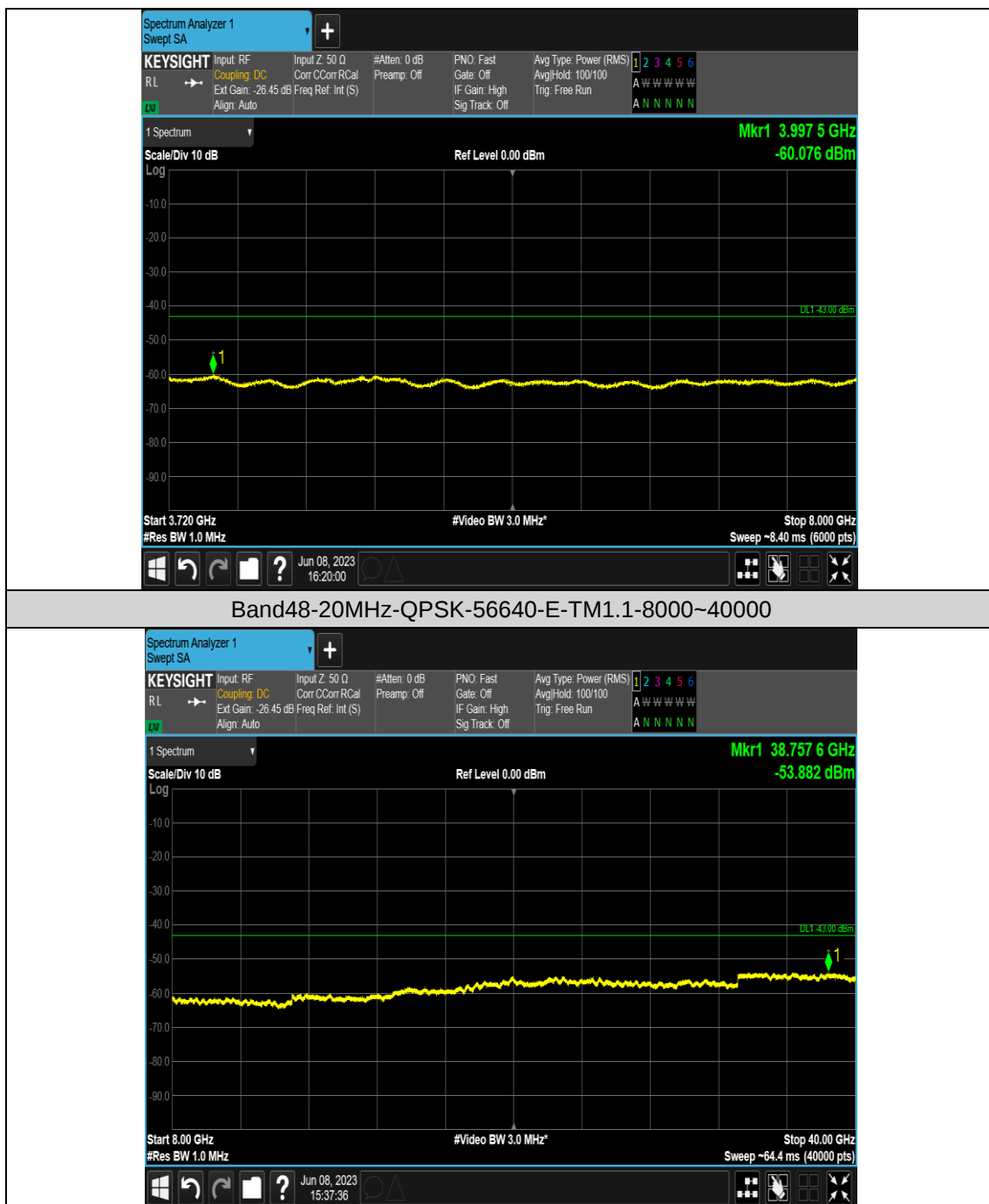
Band48-20MHz-QPSK-55990-E-TM1.1-8000~40000



Band48-20MHz-QPSK-56640-E-TM1.1-30~3530

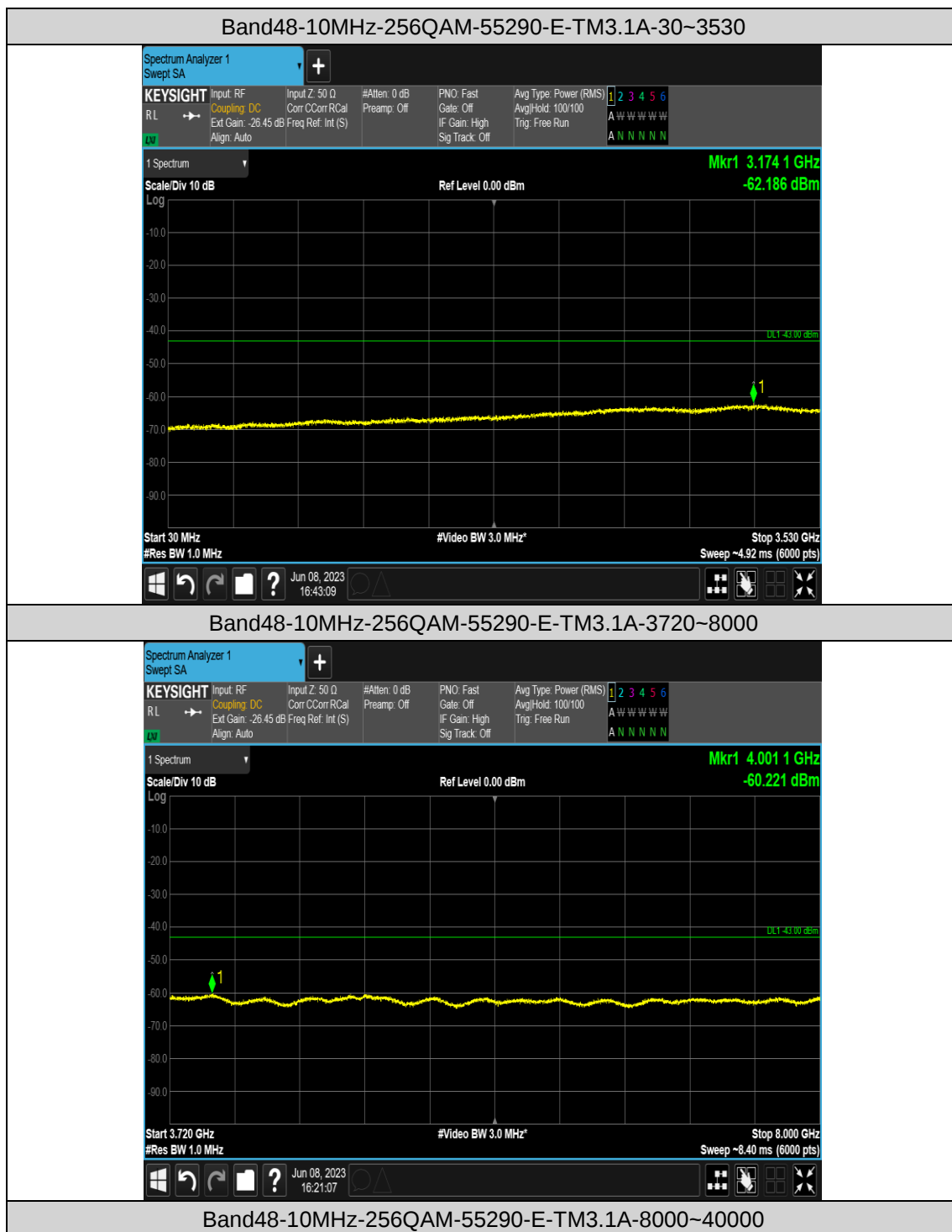


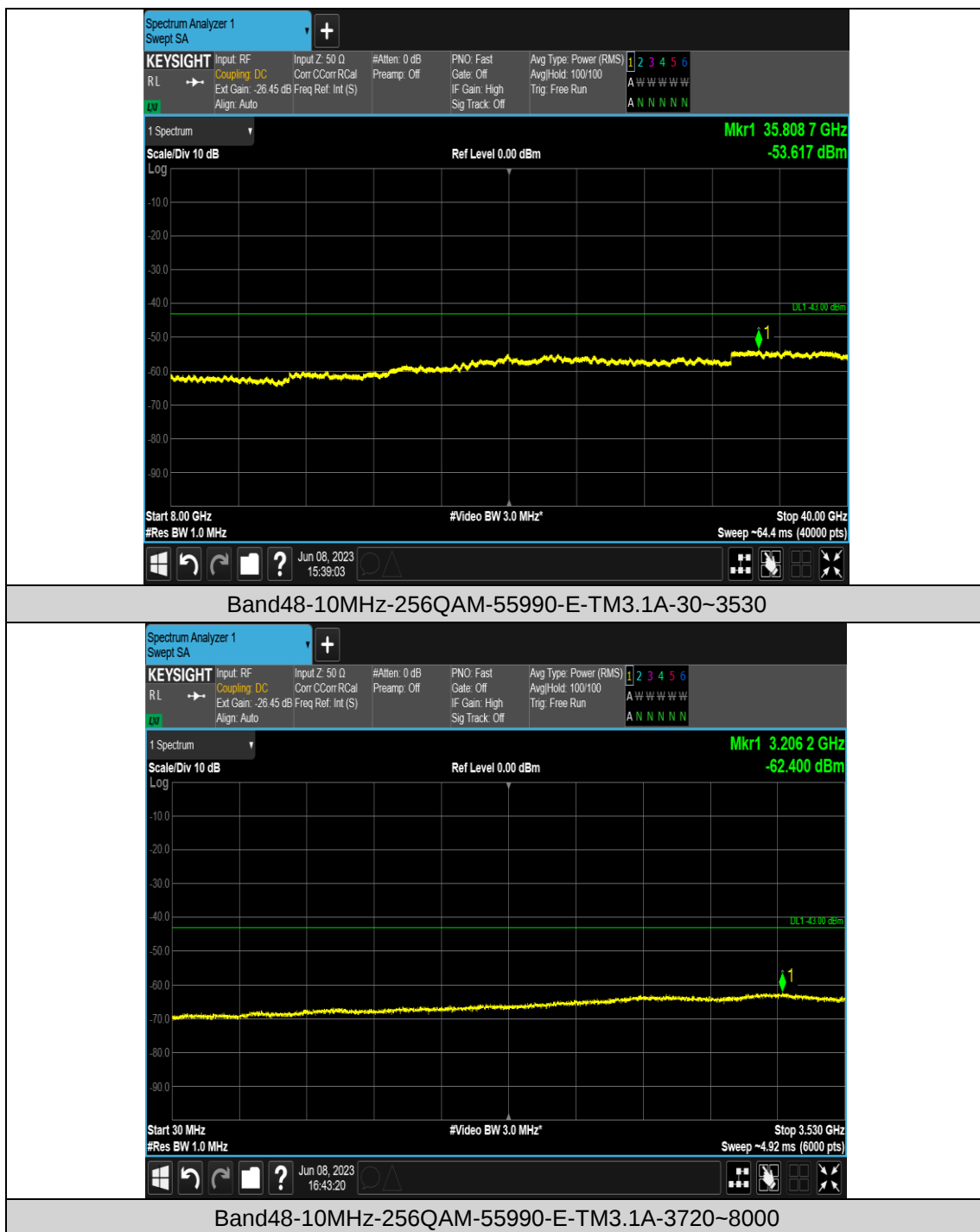
Band48-20MHz-QPSK-56640-E-TM1.1-3720~8000

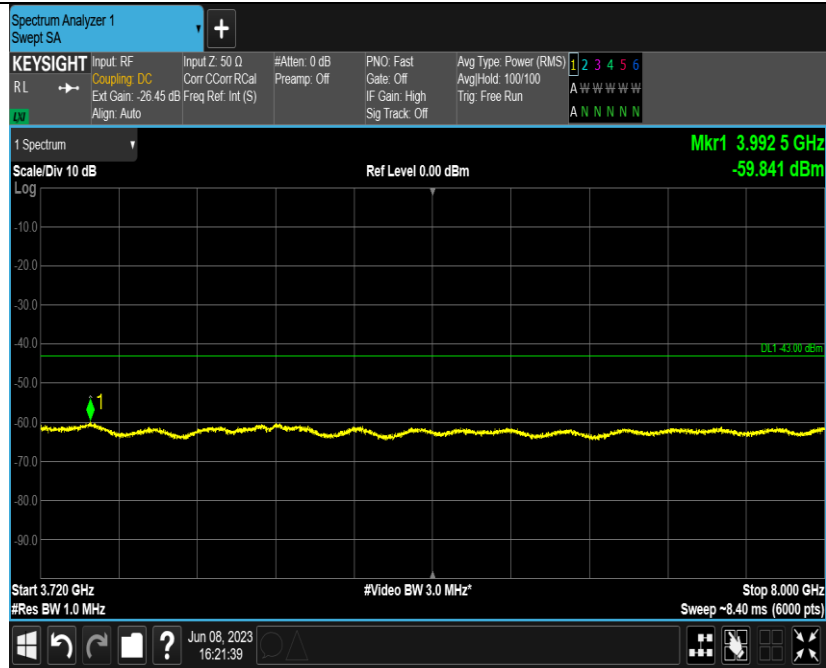


4)Test For ANT4 Test Result

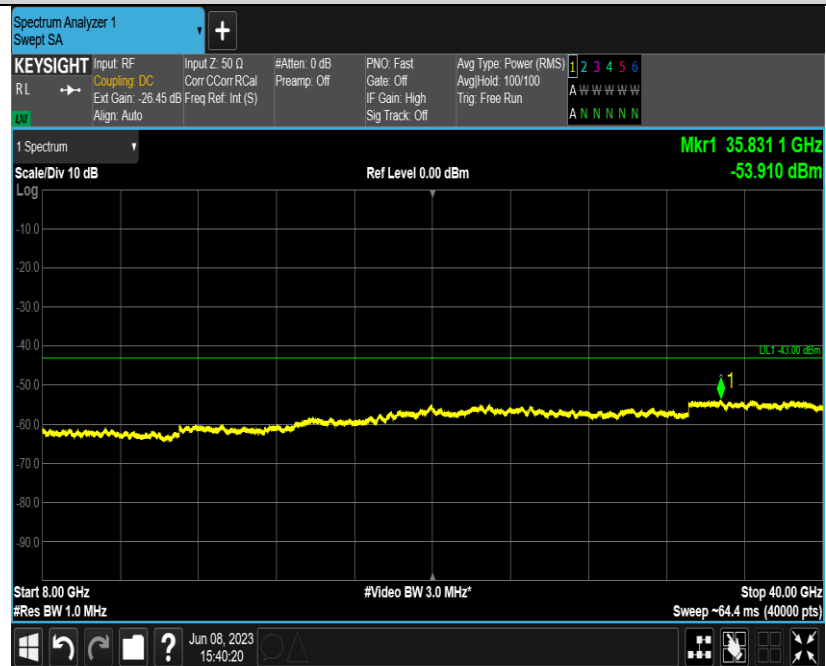
Test Graphs



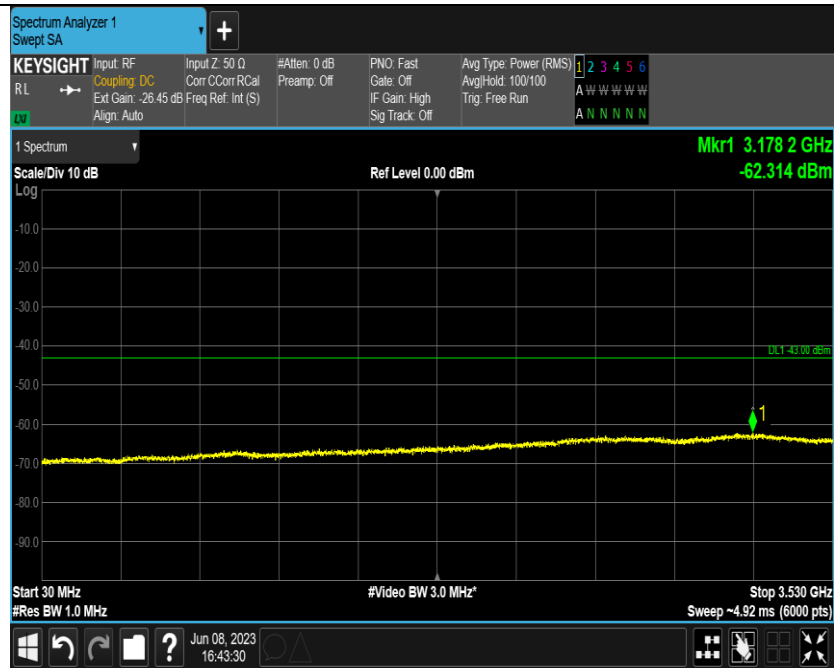




Band48-10MHz-256QAM-55990-E-TM3.1A-8000~40000



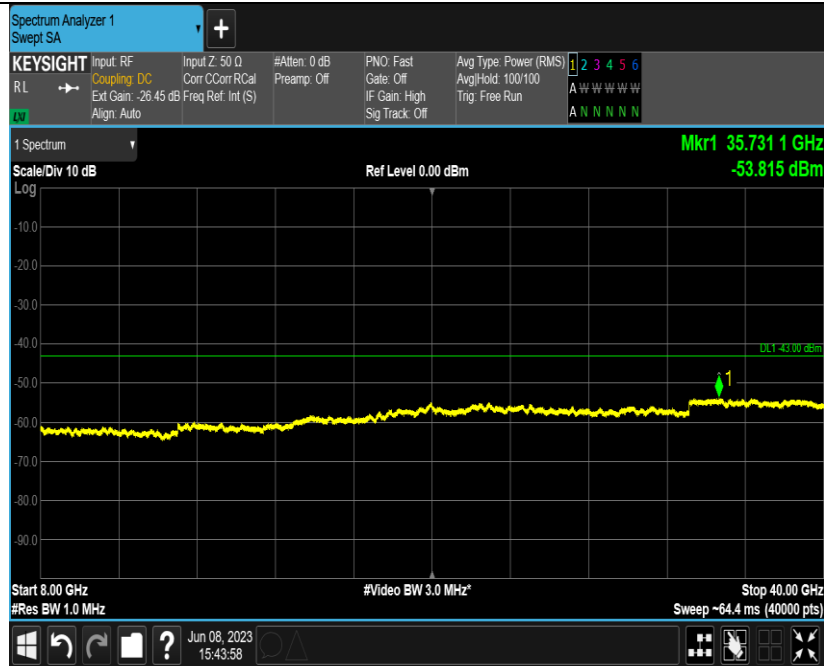
Band48-10MHz-256QAM-56690-E-TM3.1A-30~3530



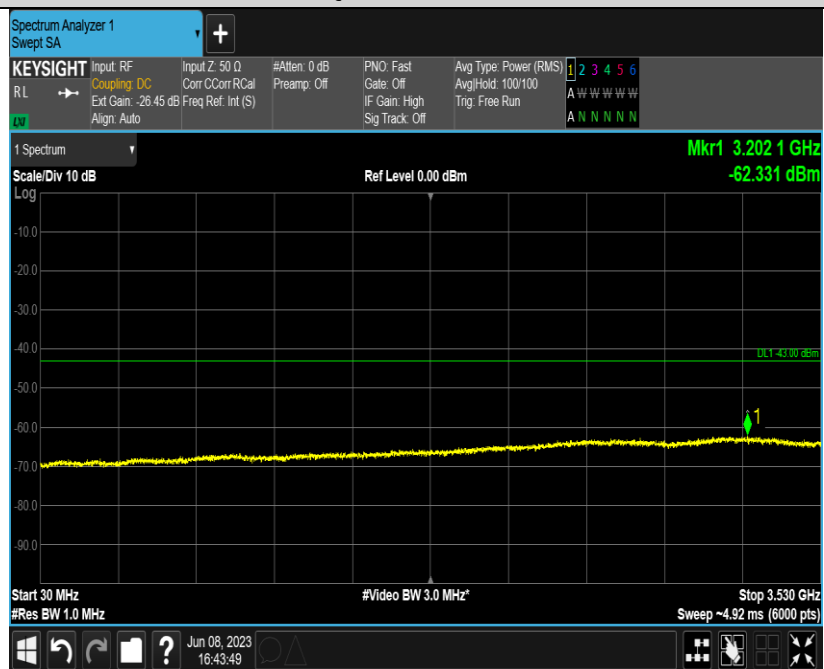
Band48-10MHz-256QAM-56690-E-TM3.1A-3720~8000



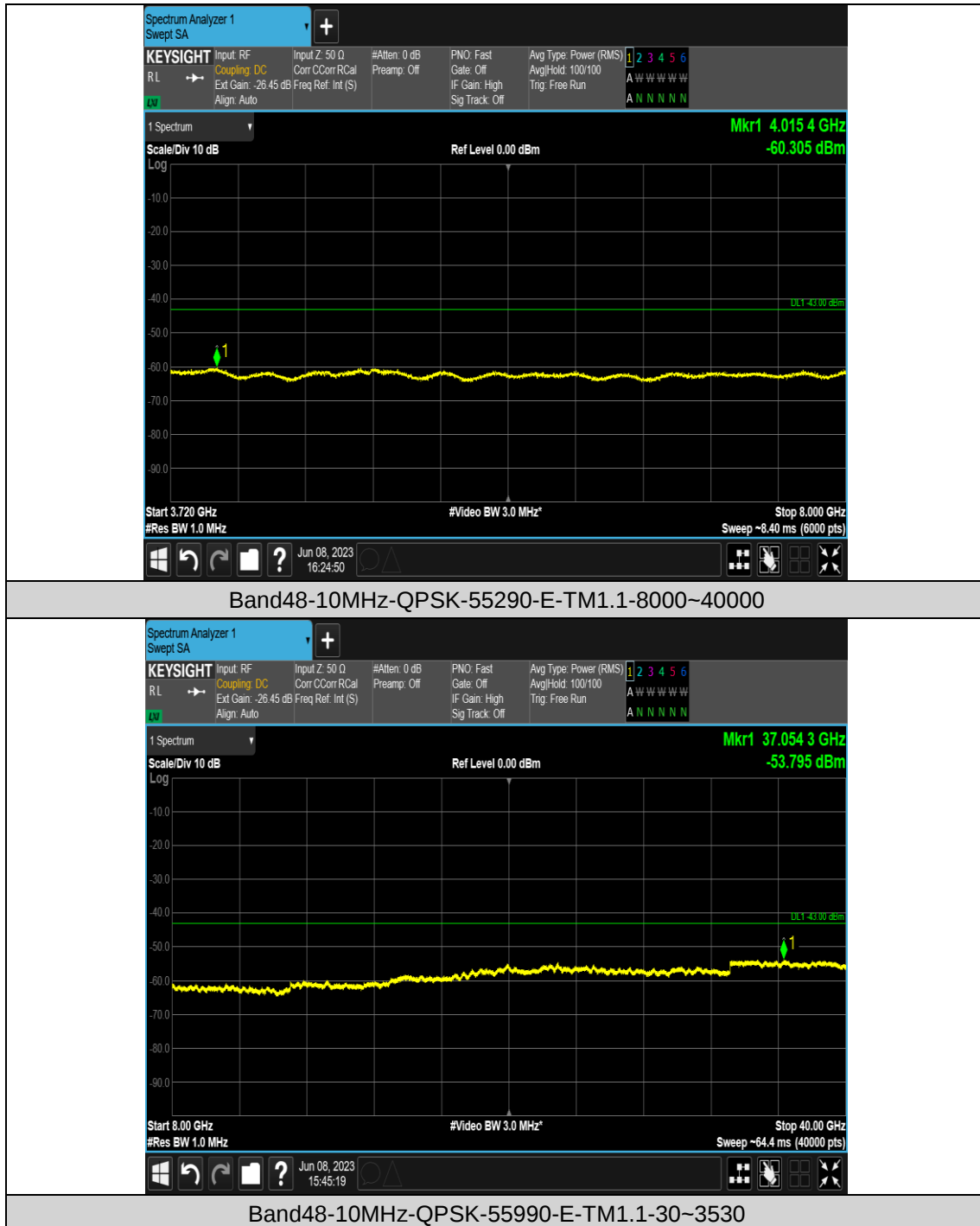
Band48-10MHz-256QAM-56690-E-TM3.1A-8000~40000

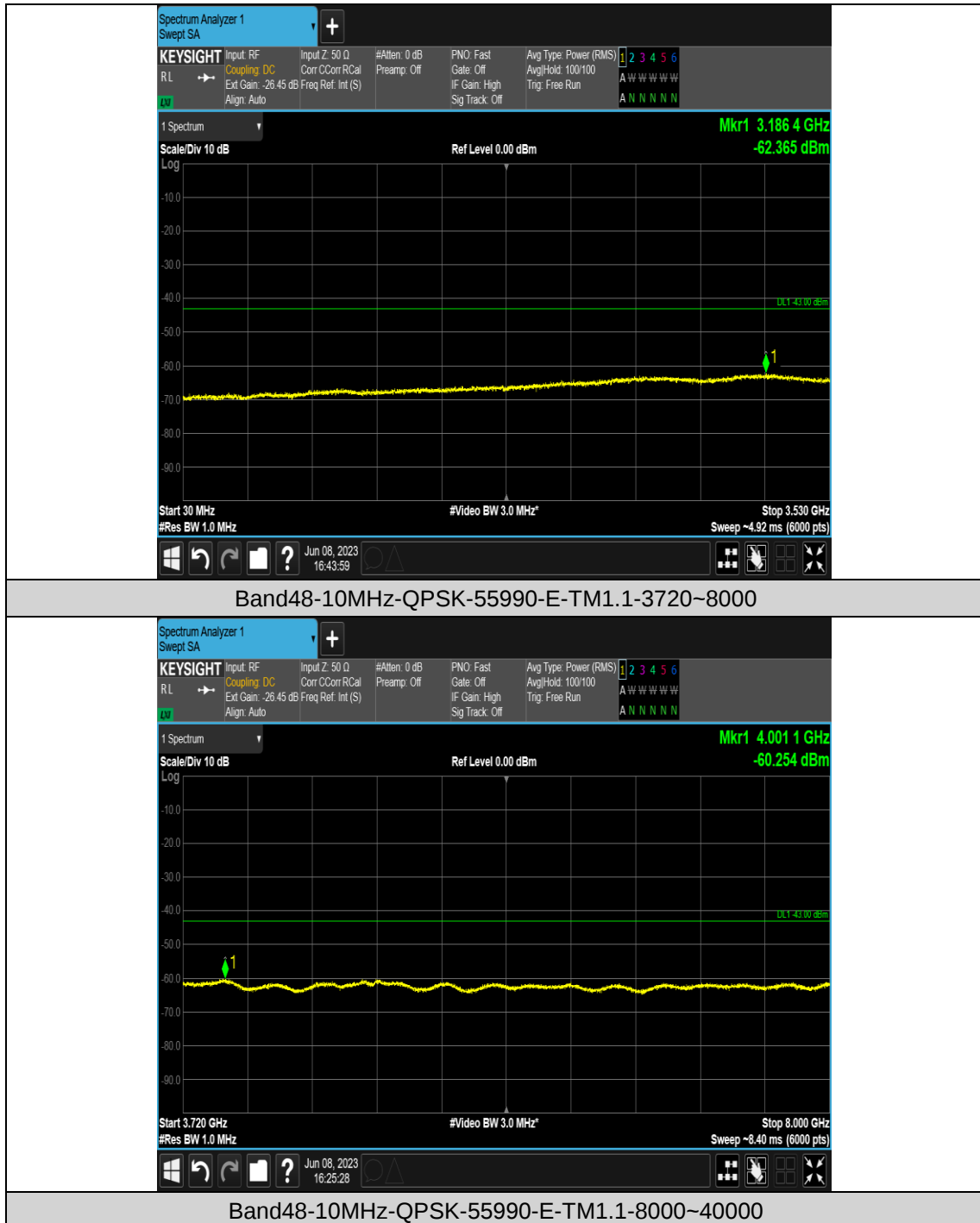


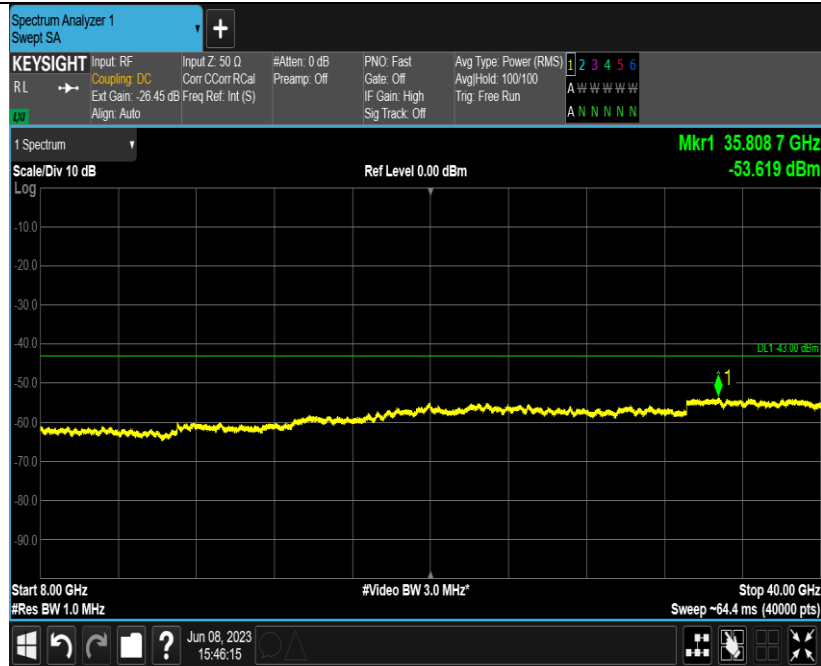
Band48-10MHz-QPSK-55290-E-TM1.1-30~3530



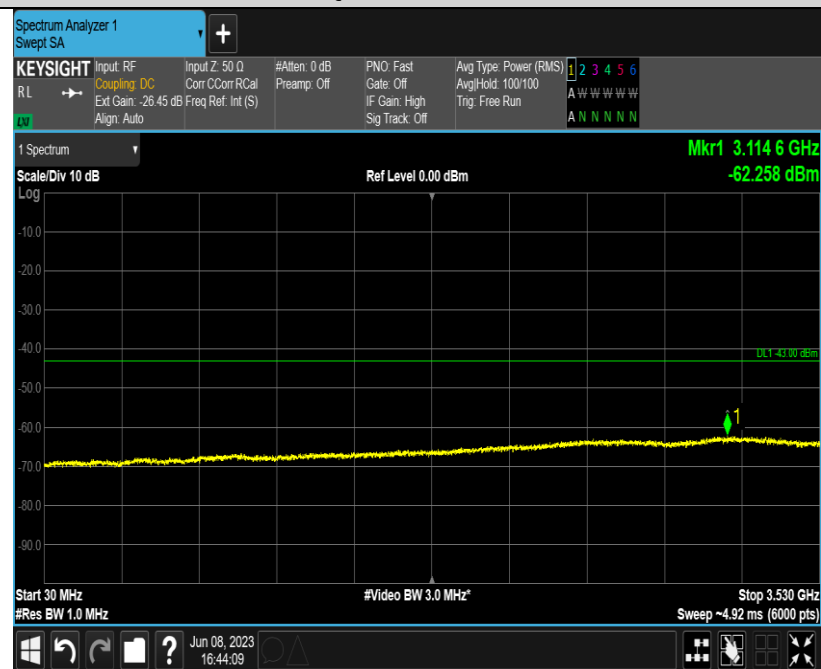
Band48-10MHz-QPSK-55290-E-TM1.1-3720~8000



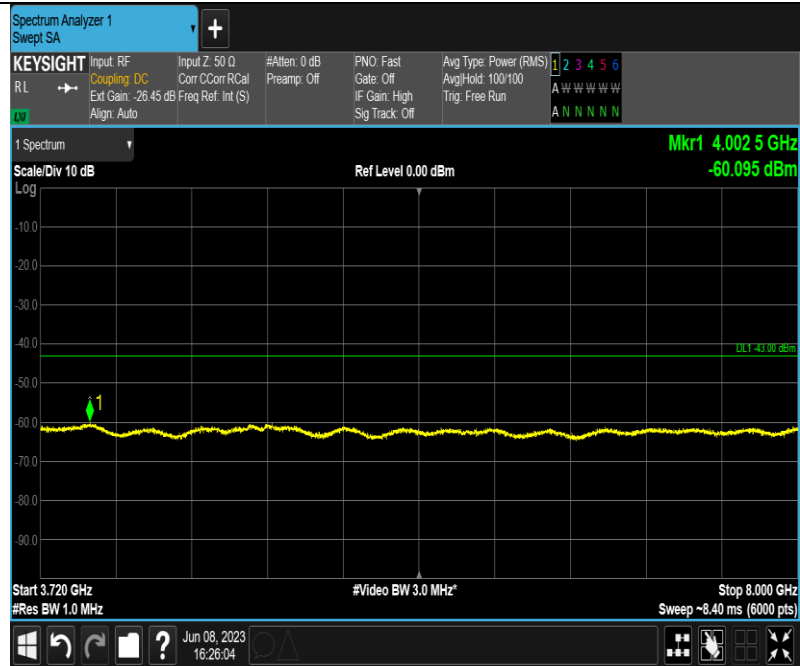




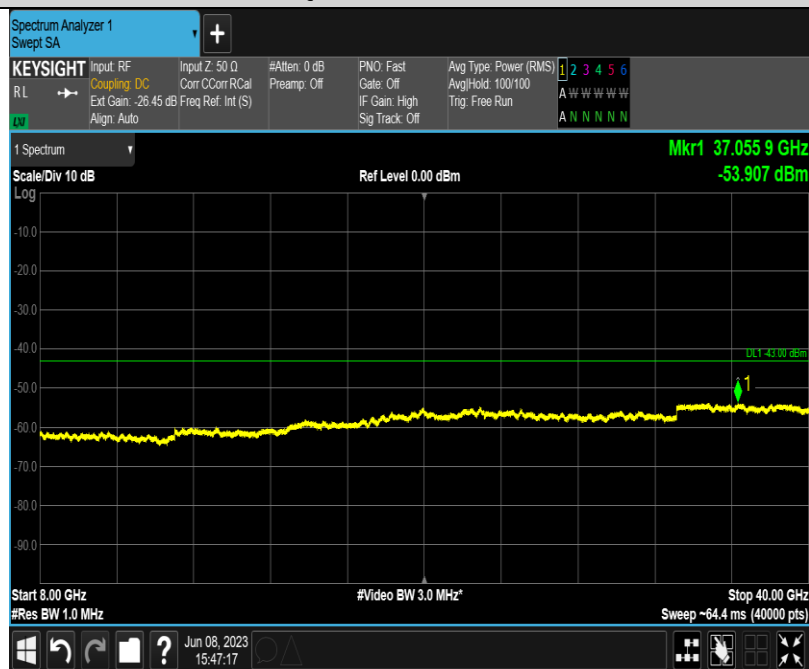
Band48-10MHz-QPSK-56690-E-TM1.1-30~3530



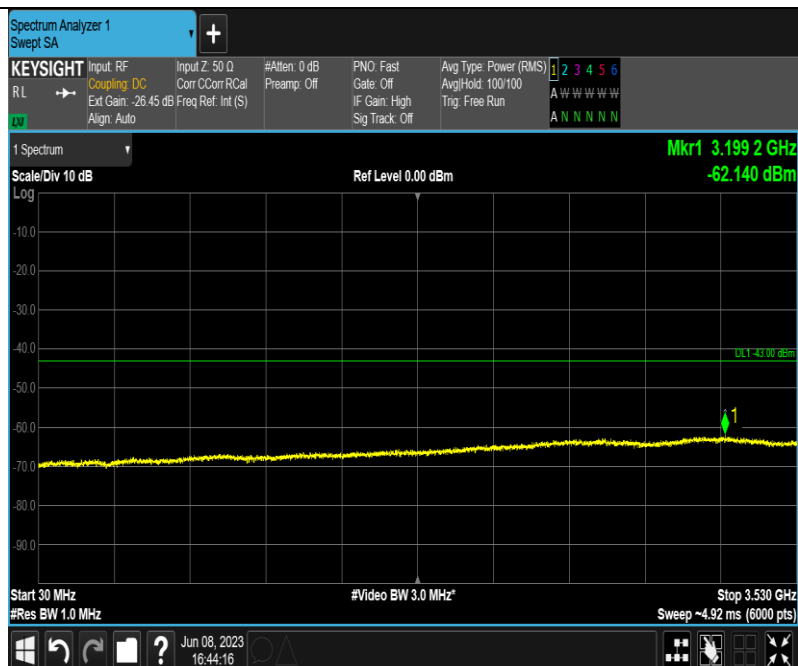
Band48-10MHz-QPSK-56690-E-TM1.1-3720~8000



Band48-10MHz-QPSK-56690-E-TM1.1-8000~40000



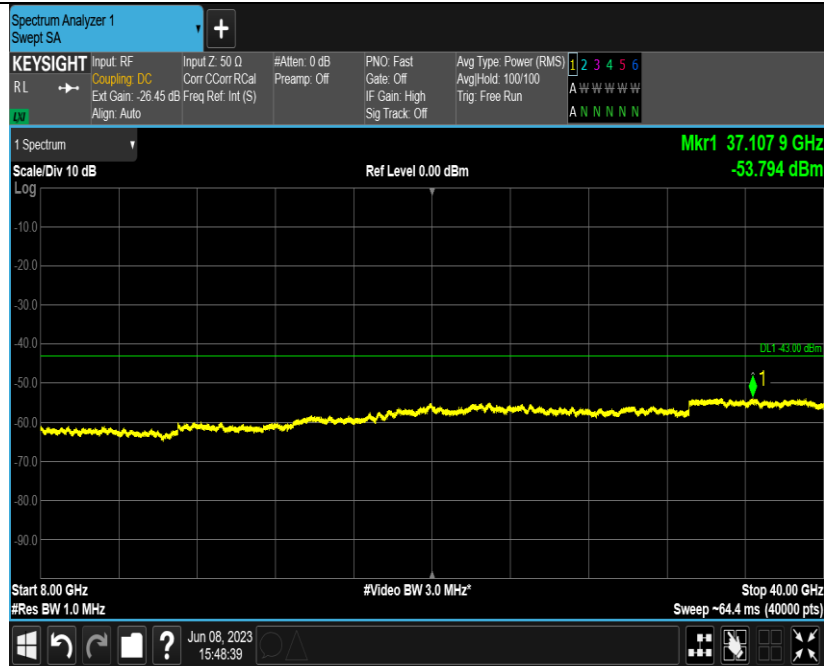
Band48-20MHz-256QAM-55340-E-TM3.1A-30~3530



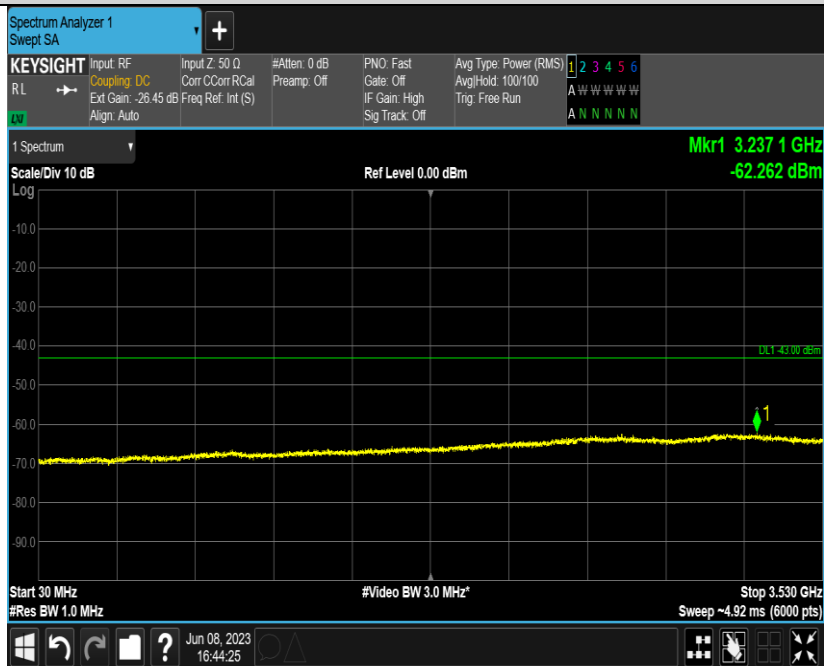
Band48-20MHz-256QAM-55340-E-TM3.1A-3720~8000



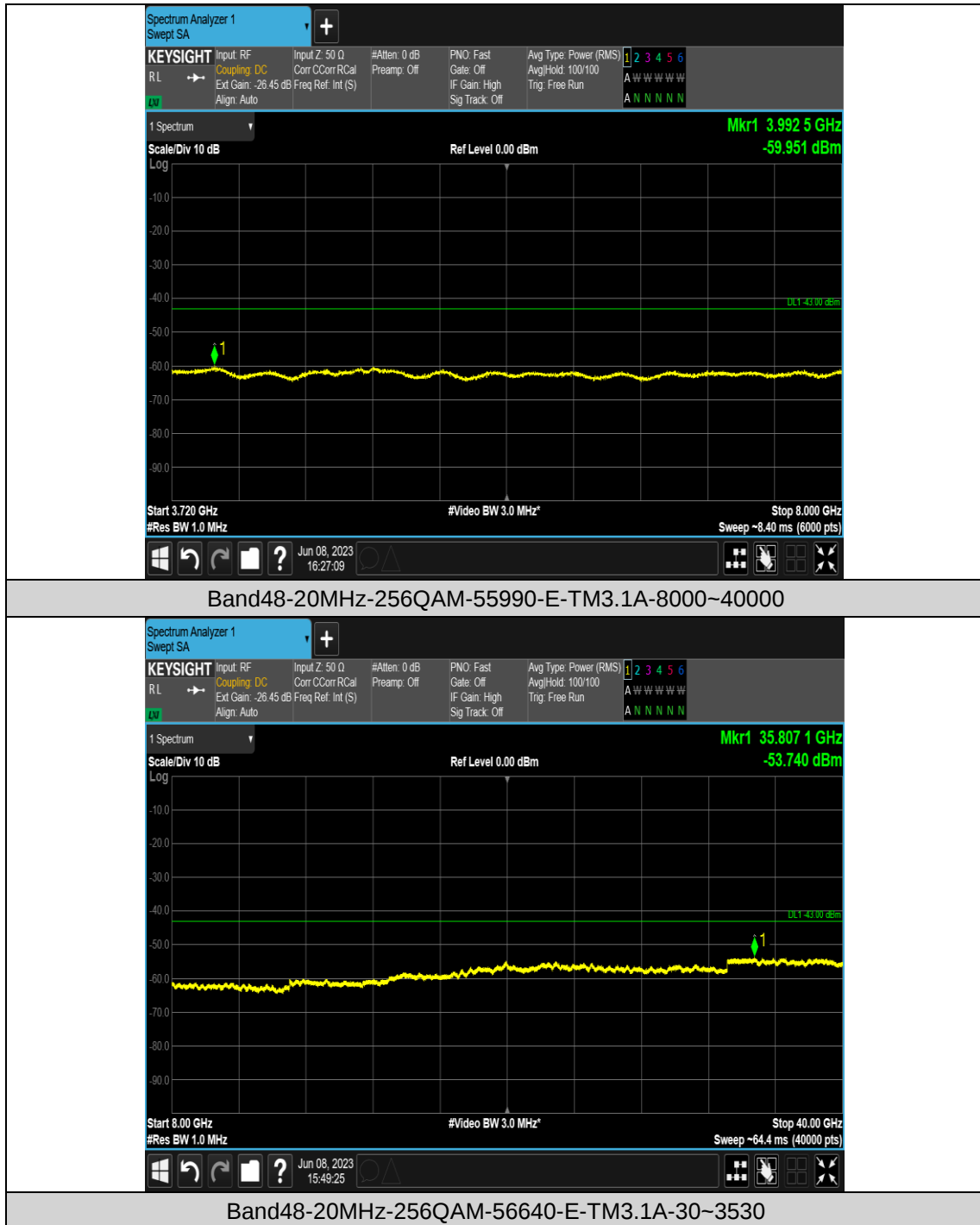
Band48-20MHz-256QAM-55340-E-TM3.1A-8000~40000

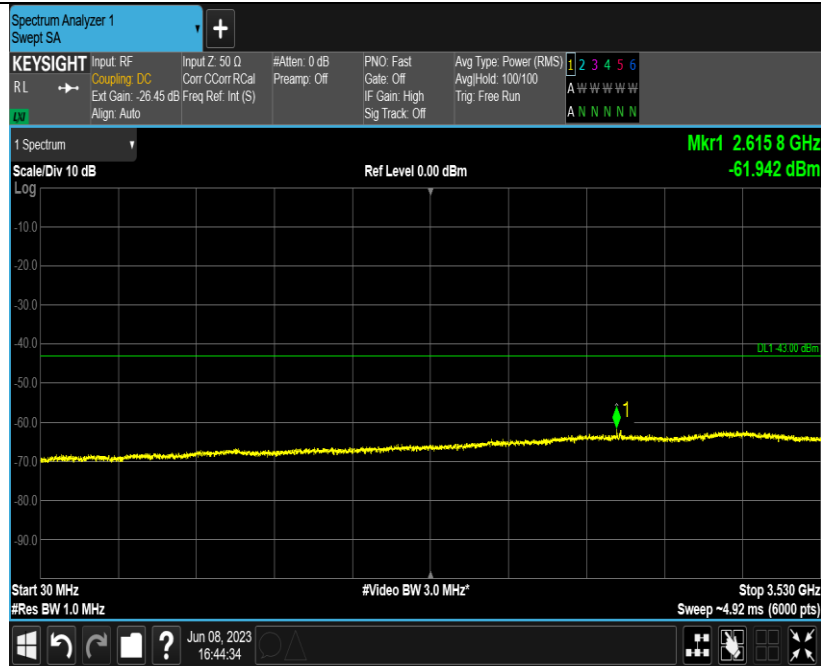


Band48-20MHz-256QAM-55990-E-TM3.1A-30~3530

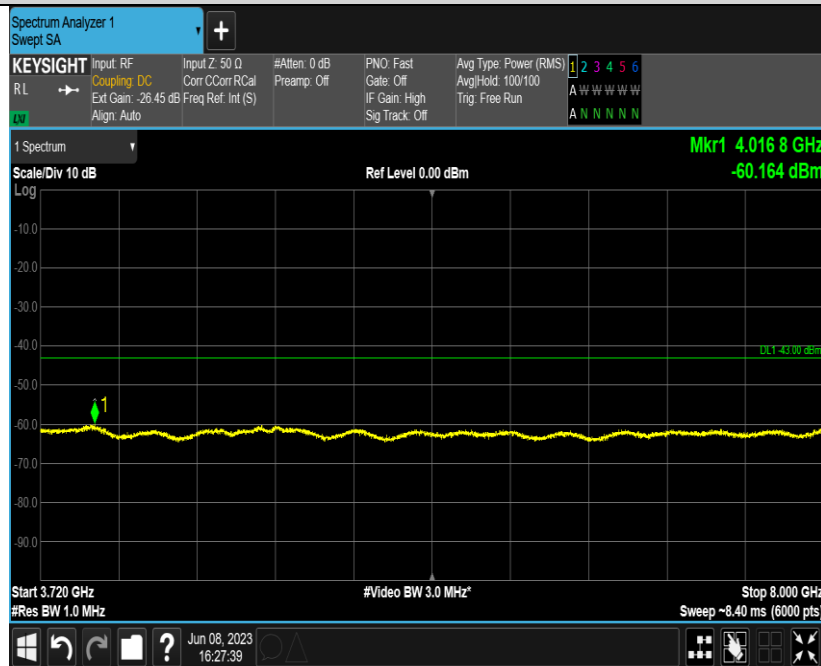


Band48-20MHz-256QAM-55990-E-TM3.1A-3720~8000

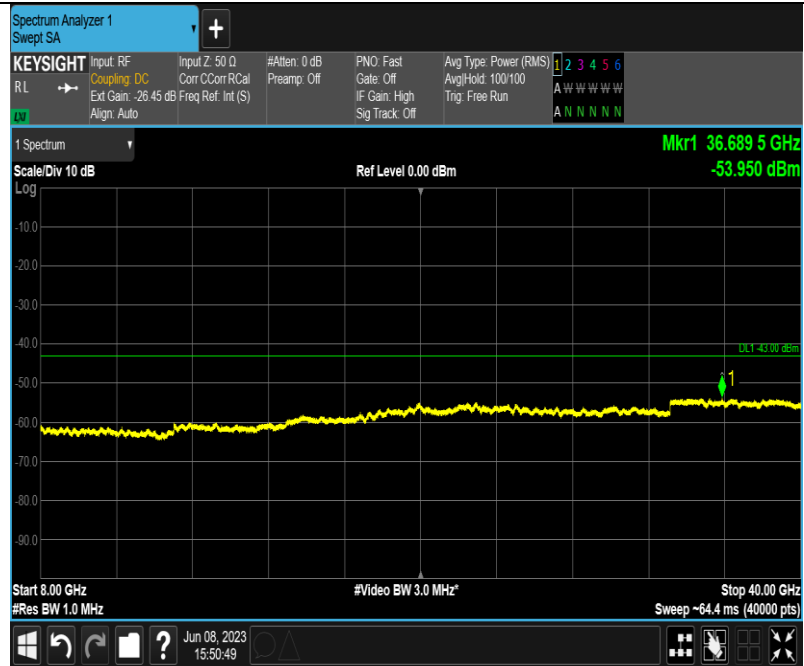




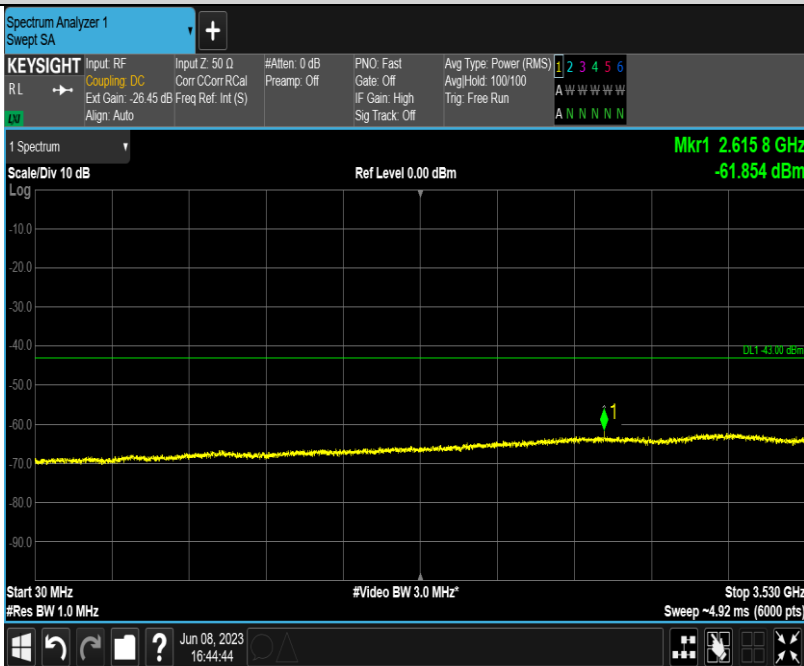
Band48-20MHz-256QAM-56640-E-TM3.1A-3720~8000



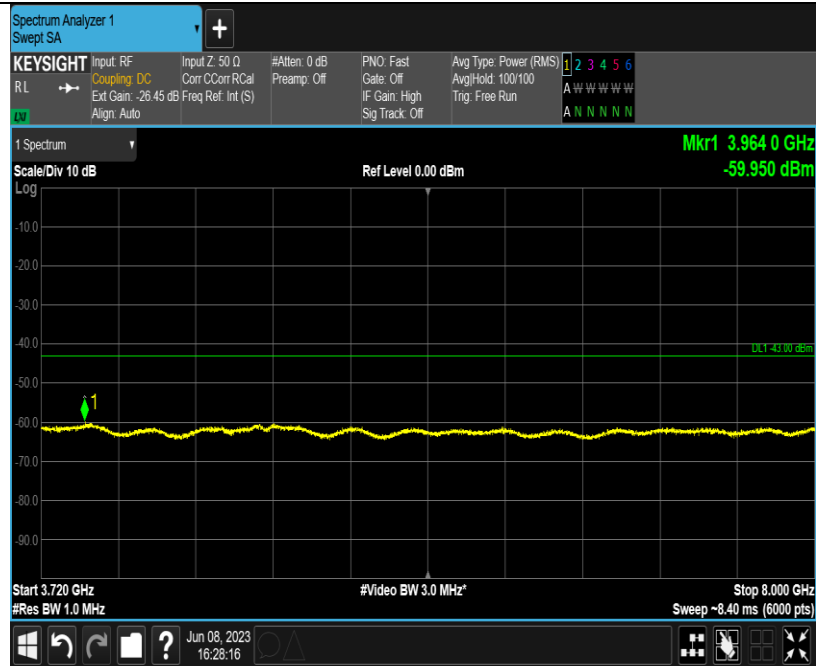
Band48-20MHz-256QAM-56640-E-TM3.1A-8000~40000



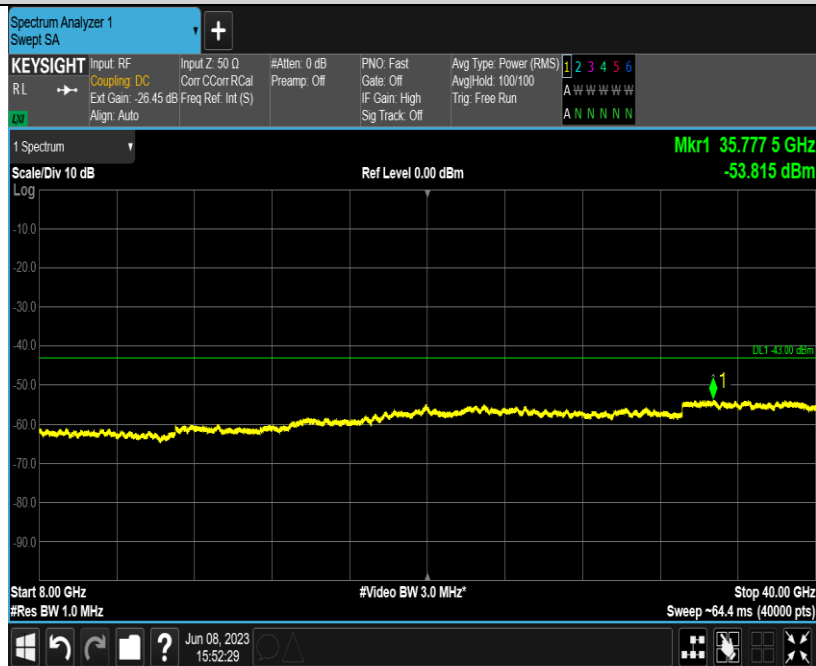
Band48-20MHz-QPSK-55340-E-TM1.1-30~3530



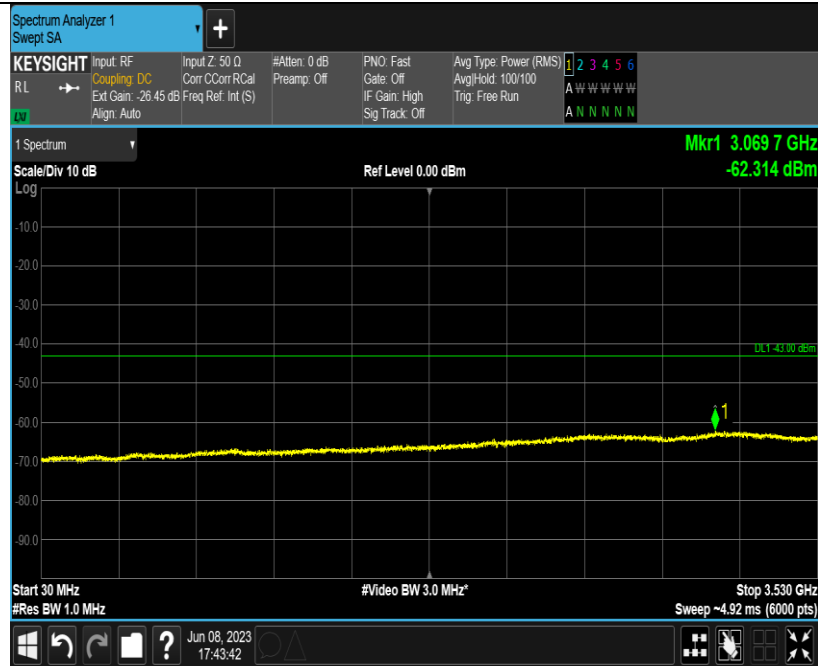
Band48-20MHz-QPSK-55340-E-TM1.1-3720~8000



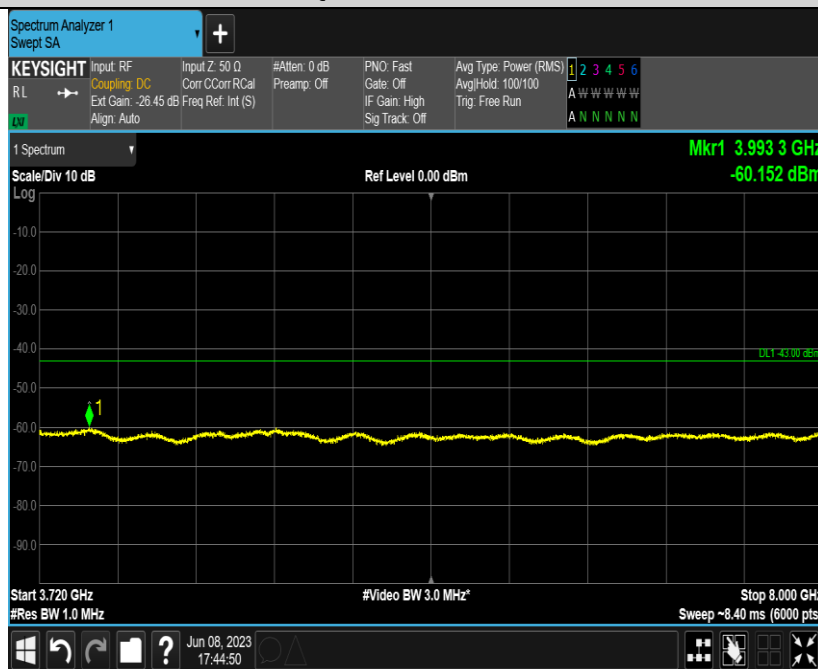
Band48-20MHz-QPSK-55340-E-TM1.1-8000~40000



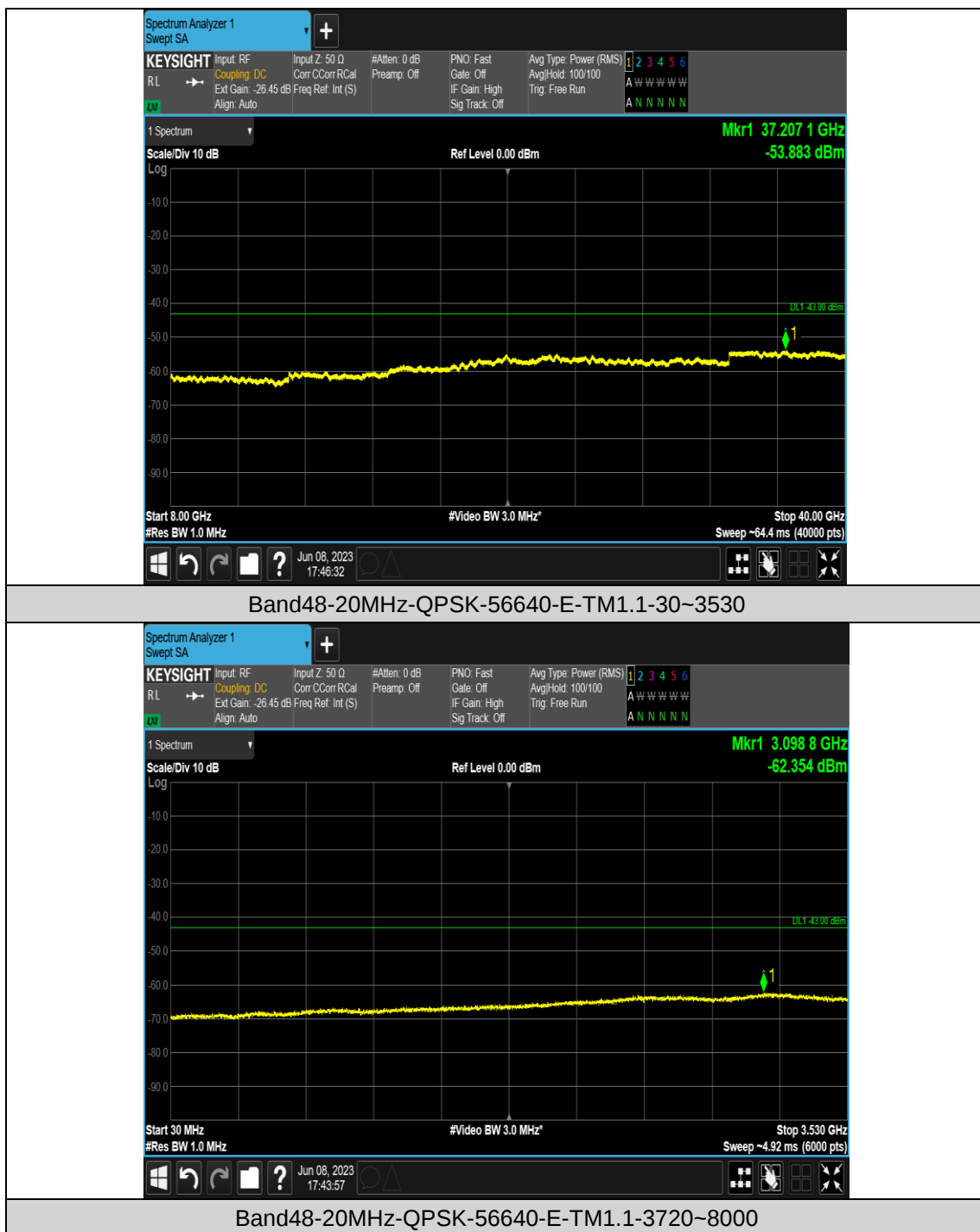
Band48-20MHz-QPSK-55990-E-TM1.1-30~3530

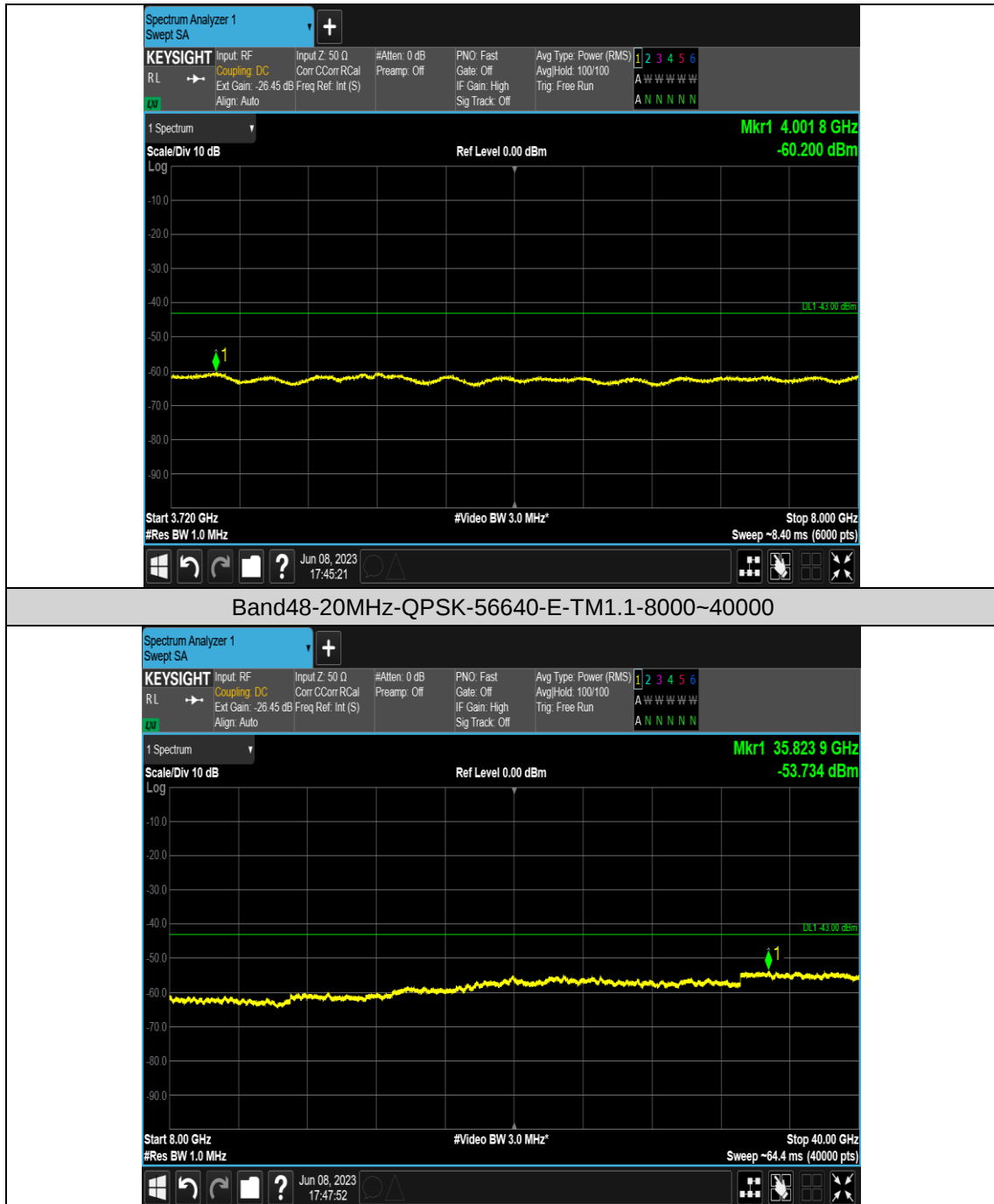


Band48-20MHz-QPSK-55990-E-TM1.1-3720~8000



Band48-20MHz-QPSK-55990-E-TM1.1-8000~40000





Appendix F: Frequency Stability

1)Test For ANT1 Test Result

Test Result

Band	Bandwidth	Modulation	Channel	Mode	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)
Band48	10MHz	256QAM	55290	E-TM3.1A	LV	NT	77	0.022
Band48	10MHz	256QAM	55290	E-TM3.1A	NV	NT	49	0.014
Band48	10MHz	256QAM	55290	E-TM3.1A	HV	NT	16	0.005
Band48	10MHz	256QAM	55990	E-TM3.1A	LV	NT	38	0.011
Band48	10MHz	256QAM	55990	E-TM3.1A	NV	NT	22	0.006
Band48	10MHz	256QAM	55990	E-TM3.1A	HV	NT	67	0.019
Band48	10MHz	256QAM	56690	E-TM3.1A	LV	NT	-15	-0.004
Band48	10MHz	256QAM	56690	E-TM3.1A	NV	NT	62	0.017
Band48	10MHz	256QAM	56690	E-TM3.1A	HV	NT	68	0.019
Band48	10MHz	QPSK	55290	E-TM1.1	LV	NT	-32	-0.009
Band48	10MHz	QPSK	55290	E-TM1.1	NV	NT	64	0.018
Band48	10MHz	QPSK	55290	E-TM1.1	HV	NT	-42	-0.012
Band48	10MHz	QPSK	55990	E-TM1.1	LV	NT	48	0.014
Band48	10MHz	QPSK	55990	E-TM1.1	NV	NT	68	0.019
Band48	10MHz	QPSK	55990	E-TM1.1	HV	NT	-19	-0.005
Band48	10MHz	QPSK	56690	E-TM1.1	LV	NT	47	0.013
Band48	10MHz	QPSK	56690	E-TM1.1	NV	NT	-9	-0.003
Band48	10MHz	QPSK	56690	E-TM1.1	HV	NT	1	0.001
Band48	20MHz	256QAM	55340	E-TM3.1A	LV	NT	62	0.017
Band48	20MHz	256QAM	55340	E-TM3.1A	NV	NT	-67	-0.019
Band48	20MHz	256QAM	55340	E-TM3.1A	HV	NT	-67	-0.019
Band48	20MHz	256QAM	55990	E-TM3.1A	LV	NT	23	0.006
Band48	20MHz	256QAM	55990	E-TM3.1A	NV	NT	72	0.020
Band48	20MHz	256QAM	55990	E-TM3.1A	HV	NT	-9	-0.003
Band48	20MHz	256QAM	56640	E-TM3.1A	LV	NT	-57	-0.016
Band48	20MHz	256QAM	56640	E-TM3.1A	NV	NT	55	0.015
Band48	20MHz	256QAM	56640	E-TM3.1A	HV	NT	80	0.023
Band48	20MHz	QPSK	55340	E-TM1.1	LV	NT	-42	-0.012

Band48	20MHz	QPSK	55340	E-TM1.1	NV	NT	-67	-0.019
Band48	20MHz	QPSK	55340	E-TM1.1	HV	NT	4	0.001
Band48	20MHz	QPSK	55990	E-TM1.1	LV	NT	-16	-0.005
Band48	20MHz	QPSK	55990	E-TM1.1	NV	NT	-35	-0.010
Band48	20MHz	QPSK	55990	E-TM1.1	HV	NT	50	0.014
Band48	20MHz	QPSK	56640	E-TM1.1	LV	NT	18	0.005
Band48	20MHz	QPSK	56640	E-TM1.1	NV	NT	-5	-0.001
Band48	20MHz	QPSK	56640	E-TM1.1	HV	NT	54	0.015

Band	Bandwidth	Modulation	Channel	Mode	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)
Band48	10MHz	256QAM	55290	E-TM3.1A	NV	-40	-16	-0.005
Band48	10MHz	256QAM	55290	E-TM3.1A	NV	-30	22	0.006
Band48	10MHz	256QAM	55290	E-TM3.1A	NV	-20	-45	-0.013
Band48	10MHz	256QAM	55290	E-TM3.1A	NV	-10	27	0.008
Band48	10MHz	256QAM	55290	E-TM3.1A	NV	0	-66	-0.019
Band48	10MHz	256QAM	55290	E-TM3.1A	NV	10	11	0.003
Band48	10MHz	256QAM	55290	E-TM3.1A	NV	20	-30	-0.008
Band48	10MHz	256QAM	55290	E-TM3.1A	NV	30	-25	-0.007
Band48	10MHz	256QAM	55290	E-TM3.1A	NV	40	6	0.002
Band48	10MHz	256QAM	55290	E-TM3.1A	NV	50	-23	-0.006
Band48	10MHz	256QAM	55290	E-TM3.1A	NV	55	-69	-0.019
Band48	10MHz	256QAM	55990	E-TM3.1A	NV	-40	24	0.007
Band48	10MHz	256QAM	55990	E-TM3.1A	NV	-30	-48	-0.014
Band48	10MHz	256QAM	55990	E-TM3.1A	NV	-20	-4	-0.001
Band48	10MHz	256QAM	55990	E-TM3.1A	NV	-10	-69	-0.019
Band48	10MHz	256QAM	55990	E-TM3.1A	NV	0	-12	-0.003
Band48	10MHz	256QAM	55990	E-TM3.1A	NV	10	-19	-0.005
Band48	10MHz	256QAM	55990	E-TM3.1A	NV	20	-70	-0.020
Band48	10MHz	256QAM	55990	E-TM3.1A	NV	30	31	0.009
Band48	10MHz	256QAM	55990	E-TM3.1A	NV	40	-38	-0.011
Band48	10MHz	256QAM	55990	E-TM3.1A	NV	50	-70	-0.020
Band48	10MHz	256QAM	55990	E-TM3.1A	NV	55	-32	-0.009
Band48	10MHz	256QAM	56690	E-TM3.1A	NV	-40	25	0.007
Band48	10MHz	256QAM	56690	E-TM3.1A	NV	-30	-54	-0.015
Band48	10MHz	256QAM	56690	E-TM3.1A	NV	-20	8	0.002
Band48	10MHz	256QAM	56690	E-TM3.1A	NV	-10	-33	-0.009
Band48	10MHz	256QAM	56690	E-TM3.1A	NV	0	-45	-0.013



Band48	10MHz	256QAM	56690	E-TM3.1A	NV	10	-4	-0.001
Band48	10MHz	256QAM	56690	E-TM3.1A	NV	20	3	0.001
Band48	10MHz	256QAM	56690	E-TM3.1A	NV	30	49	0.014
Band48	10MHz	256QAM	56690	E-TM3.1A	NV	40	-50	-0.014
Band48	10MHz	256QAM	56690	E-TM3.1A	NV	50	-44	-0.012
Band48	10MHz	256QAM	56690	E-TM3.1A	NV	55	-44	-0.012
Band48	10MHz	QPSK	55290	E-TM1.1	NV	-40	-14	-0.004
Band48	10MHz	QPSK	55290	E-TM1.1	NV	-30	-68	-0.019
Band48	10MHz	QPSK	55290	E-TM1.1	NV	-20	-18	-0.005
Band48	10MHz	QPSK	55290	E-TM1.1	NV	-10	-25	-0.007
Band48	10MHz	QPSK	55290	E-TM1.1	NV	0	-27	-0.008
Band48	10MHz	QPSK	55290	E-TM1.1	NV	10	-29	-0.008
Band48	10MHz	QPSK	55290	E-TM1.1	NV	20	-70	-0.020
Band48	10MHz	QPSK	55290	E-TM1.1	NV	30	-5	-0.001
Band48	10MHz	QPSK	55290	E-TM1.1	NV	40	29	0.008
Band48	10MHz	QPSK	55290	E-TM1.1	NV	50	37	0.010
Band48	10MHz	QPSK	55290	E-TM1.1	NV	55	-45	-0.013
Band48	10MHz	QPSK	55990	E-TM1.1	NV	-40	-69	-0.019
Band48	10MHz	QPSK	55990	E-TM1.1	NV	-30	74	0.021
Band48	10MHz	QPSK	55990	E-TM1.1	NV	-20	25	0.007
Band48	10MHz	QPSK	55990	E-TM1.1	NV	-10	-60	-0.017
Band48	10MHz	QPSK	55990	E-TM1.1	NV	0	53	0.015
Band48	10MHz	QPSK	55990	E-TM1.1	NV	10	8	0.002
Band48	10MHz	QPSK	55990	E-TM1.1	NV	20	61	0.017
Band48	10MHz	QPSK	55990	E-TM1.1	NV	30	57	0.016
Band48	10MHz	QPSK	55990	E-TM1.1	NV	40	-25	-0.007
Band48	10MHz	QPSK	55990	E-TM1.1	NV	50	22	0.006
Band48	10MHz	QPSK	55990	E-TM1.1	NV	55	-21	-0.006
Band48	10MHz	QPSK	56690	E-TM1.1	NV	-40	34	0.010
Band48	10MHz	QPSK	56690	E-TM1.1	NV	-30	-28	-0.008
Band48	10MHz	QPSK	56690	E-TM1.1	NV	-20	-31	-0.009
Band48	10MHz	QPSK	56690	E-TM1.1	NV	-10	7	0.002
Band48	10MHz	QPSK	56690	E-TM1.1	NV	0	-24	-0.007
Band48	10MHz	QPSK	56690	E-TM1.1	NV	10	59	0.017
Band48	10MHz	QPSK	56690	E-TM1.1	NV	20	64	0.018
Band48	10MHz	QPSK	56690	E-TM1.1	NV	30	-4	-0.001
Band48	10MHz	QPSK	56690	E-TM1.1	NV	40	-33	-0.009
Band48	10MHz	QPSK	56690	E-TM1.1	NV	50	-2	-0.001
Band48	10MHz	QPSK	56690	E-TM1.1	NV	55	-49	-0.014



Band48	20MHz	256QAM	55340	E-TM3.1A	NV	-40	68	0.019
Band48	20MHz	256QAM	55340	E-TM3.1A	NV	-30	4	0.001
Band48	20MHz	256QAM	55340	E-TM3.1A	NV	-20	17	0.005
Band48	20MHz	256QAM	55340	E-TM3.1A	NV	-10	-24	-0.007
Band48	20MHz	256QAM	55340	E-TM3.1A	NV	0	46	0.013
Band48	20MHz	256QAM	55340	E-TM3.1A	NV	10	-59	-0.017
Band48	20MHz	256QAM	55340	E-TM3.1A	NV	20	-7	-0.002
Band48	20MHz	256QAM	55340	E-TM3.1A	NV	30	-66	-0.019
Band48	20MHz	256QAM	55340	E-TM3.1A	NV	40	57	0.016
Band48	20MHz	256QAM	55340	E-TM3.1A	NV	50	-1	0.000
Band48	20MHz	256QAM	55340	E-TM3.1A	NV	55	20	0.006
Band48	20MHz	256QAM	55990	E-TM3.1A	NV	-40	54	0.015
Band48	20MHz	256QAM	55990	E-TM3.1A	NV	-30	-18	-0.005
Band48	20MHz	256QAM	55990	E-TM3.1A	NV	-20	-16	-0.005
Band48	20MHz	256QAM	55990	E-TM3.1A	NV	-10	12	0.003
Band48	20MHz	256QAM	55990	E-TM3.1A	NV	0	16	0.005
Band48	20MHz	256QAM	55990	E-TM3.1A	NV	10	-56	-0.016
Band48	20MHz	256QAM	55990	E-TM3.1A	NV	20	-24	-0.007
Band48	20MHz	256QAM	55990	E-TM3.1A	NV	30	36	0.010
Band48	20MHz	256QAM	55990	E-TM3.1A	NV	40	-5	-0.001
Band48	20MHz	256QAM	55990	E-TM3.1A	NV	50	27	0.008
Band48	20MHz	256QAM	55990	E-TM3.1A	NV	55	-63	-0.018
Band48	20MHz	256QAM	56640	E-TM3.1A	NV	-40	8	0.002
Band48	20MHz	256QAM	56640	E-TM3.1A	NV	-30	2	0.001
Band48	20MHz	256QAM	56640	E-TM3.1A	NV	-20	-40	-0.011
Band48	20MHz	256QAM	56640	E-TM3.1A	NV	-10	-53	-0.015
Band48	20MHz	256QAM	56640	E-TM3.1A	NV	0	-60	-0.017
Band48	20MHz	256QAM	56640	E-TM3.1A	NV	10	65	0.018
Band48	20MHz	256QAM	56640	E-TM3.1A	NV	20	-15	-0.004
Band48	20MHz	256QAM	56640	E-TM3.1A	NV	30	-41	-0.012
Band48	20MHz	256QAM	56640	E-TM3.1A	NV	40	-65	-0.018
Band48	20MHz	256QAM	56640	E-TM3.1A	NV	50	-12	-0.003
Band48	20MHz	256QAM	56640	E-TM3.1A	NV	55	25	0.007
Band48	20MHz	QPSK	55340	E-TM1.1	NV	-40	2	0.001
Band48	20MHz	QPSK	55340	E-TM1.1	NV	-30	-22	-0.006
Band48	20MHz	QPSK	55340	E-TM1.1	NV	-20	41	0.012
Band48	20MHz	QPSK	55340	E-TM1.1	NV	-10	42	0.012
Band48	20MHz	QPSK	55340	E-TM1.1	NV	0	8	0.002
Band48	20MHz	QPSK	55340	E-TM1.1	NV	10	-54	-0.015

Band48	20MHz	QPSK	55340	E-TM1.1	NV	20	28	0.008
Band48	20MHz	QPSK	55340	E-TM1.1	NV	30	38	0.011
Band48	20MHz	QPSK	55340	E-TM1.1	NV	40	-18	-0.005
Band48	20MHz	QPSK	55340	E-TM1.1	NV	50	-64	-0.018
Band48	20MHz	QPSK	55340	E-TM1.1	NV	55	-41	-0.012
Band48	20MHz	QPSK	55990	E-TM1.1	NV	-40	26	0.007
Band48	20MHz	QPSK	55990	E-TM1.1	NV	-30	4	0.001
Band48	20MHz	QPSK	55990	E-TM1.1	NV	-20	-51	-0.014
Band48	20MHz	QPSK	55990	E-TM1.1	NV	-10	28	0.008
Band48	20MHz	QPSK	55990	E-TM1.1	NV	0	-22	-0.006
Band48	20MHz	QPSK	55990	E-TM1.1	NV	10	-23	-0.006
Band48	20MHz	QPSK	55990	E-TM1.1	NV	20	-8	-0.002
Band48	20MHz	QPSK	55990	E-TM1.1	NV	30	8	0.002
Band48	20MHz	QPSK	55990	E-TM1.1	NV	40	-33	-0.009
Band48	20MHz	QPSK	55990	E-TM1.1	NV	50	51	0.014
Band48	20MHz	QPSK	55990	E-TM1.1	NV	55	36	0.010
Band48	20MHz	QPSK	56640	E-TM1.1	NV	-40	54	0.015
Band48	20MHz	QPSK	56640	E-TM1.1	NV	-30	-7	-0.002
Band48	20MHz	QPSK	56640	E-TM1.1	NV	-20	-60	-0.017
Band48	20MHz	QPSK	56640	E-TM1.1	NV	-10	3	0.001
Band48	20MHz	QPSK	56640	E-TM1.1	NV	0	78	0.022
Band48	20MHz	QPSK	56640	E-TM1.1	NV	10	2	0.001
Band48	20MHz	QPSK	56640	E-TM1.1	NV	20	-61	-0.017
Band48	20MHz	QPSK	56640	E-TM1.1	NV	30	-3	-0.001
Band48	20MHz	QPSK	56640	E-TM1.1	NV	40	75	0.021
Band48	20MHz	QPSK	56640	E-TM1.1	NV	50	10	0.003
Band48	20MHz	QPSK	56640	E-TM1.1	NV	55	18	0.005

2)Test For ANT2 Test Result

Test Result

Band	Bandwidth	Modulation	Channel	Mode	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)
Band48	10MHz	256QAM	55290	E-TM3.1A	LV	NT	-11	-0.003
Band48	10MHz	256QAM	55290	E-TM3.1A	NV	NT	34	0.010
Band48	10MHz	256QAM	55290	E-TM3.1A	HV	NT	70	0.020
Band48	10MHz	256QAM	55990	E-TM3.1A	LV	NT	-51	-0.014
Band48	10MHz	256QAM	55990	E-TM3.1A	NV	NT	30	0.008
Band48	10MHz	256QAM	55990	E-TM3.1A	HV	NT	50	0.014

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Band48	10MHz	256QAM	56690	E-TM3.1A	LV	NT	-49	-0.014
Band48	10MHz	256QAM	56690	E-TM3.1A	NV	NT	-2	-0.001
Band48	10MHz	256QAM	56690	E-TM3.1A	HV	NT	-33	-0.009
Band48	10MHz	QPSK	55290	E-TM1.1	LV	NT	-13	-0.004
Band48	10MHz	QPSK	55290	E-TM1.1	NV	NT	38	0.011
Band48	10MHz	QPSK	55290	E-TM1.1	HV	NT	-22	-0.006
Band48	10MHz	QPSK	55990	E-TM1.1	LV	NT	-54	-0.015
Band48	10MHz	QPSK	55990	E-TM1.1	NV	NT	68	0.019
Band48	10MHz	QPSK	55990	E-TM1.1	HV	NT	-14	-0.004
Band48	10MHz	QPSK	56690	E-TM1.1	LV	NT	-19	-0.005
Band48	10MHz	QPSK	56690	E-TM1.1	NV	NT	-29	-0.008
Band48	10MHz	QPSK	56690	E-TM1.1	HV	NT	12	0.003
Band48	20MHz	256QAM	55340	E-TM3.1A	LV	NT	-50	-0.014
Band48	20MHz	256QAM	55340	E-TM3.1A	NV	NT	51	0.014
Band48	20MHz	256QAM	55340	E-TM3.1A	HV	NT	47	0.013
Band48	20MHz	256QAM	55990	E-TM3.1A	LV	NT	29	0.008
Band48	20MHz	256QAM	55990	E-TM3.1A	NV	NT	22	0.006
Band48	20MHz	256QAM	55990	E-TM3.1A	HV	NT	68	0.019
Band48	20MHz	256QAM	56640	E-TM3.1A	LV	NT	72	0.020
Band48	20MHz	256QAM	56640	E-TM3.1A	NV	NT	-11	-0.003
Band48	20MHz	256QAM	56640	E-TM3.1A	HV	NT	62	0.017
Band48	20MHz	QPSK	55340	E-TM1.1	LV	NT	-18	-0.005
Band48	20MHz	QPSK	55340	E-TM1.1	NV	NT	74	0.021
Band48	20MHz	QPSK	55340	E-TM1.1	HV	NT	-64	-0.018
Band48	20MHz	QPSK	55990	E-TM1.1	LV	NT	46	0.013
Band48	20MHz	QPSK	55990	E-TM1.1	NV	NT	14	0.004
Band48	20MHz	QPSK	55990	E-TM1.1	HV	NT	-21	-0.006
Band48	20MHz	QPSK	56640	E-TM1.1	LV	NT	-27	-0.008
Band48	20MHz	QPSK	56640	E-TM1.1	NV	NT	41	0.012
Band48	20MHz	QPSK	56640	E-TM1.1	HV	NT	-34	-0.010

Band	Bandwidth	Modulation	Channel	Mode	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)
Band48	10MHz	256QAM	55290	E-TM3.1A	NV	-40	-42	-0.012
Band48	10MHz	256QAM	55290	E-TM3.1A	NV	-30	49	0.014
Band48	10MHz	256QAM	55290	E-TM3.1A	NV	-20	-50	-0.014
Band48	10MHz	256QAM	55290	E-TM3.1A	NV	-10	-65	-0.018
Band48	10MHz	256QAM	55290	E-TM3.1A	NV	0	24	0.007