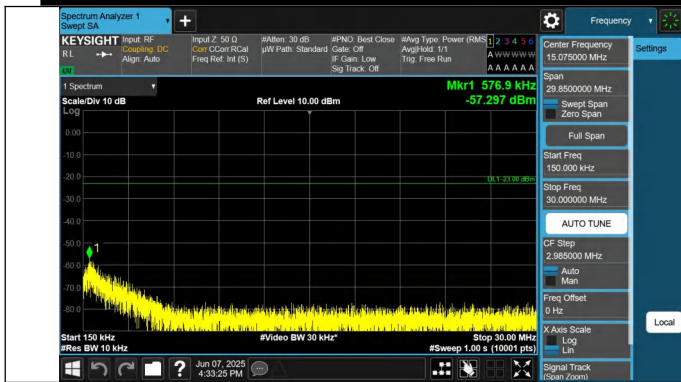
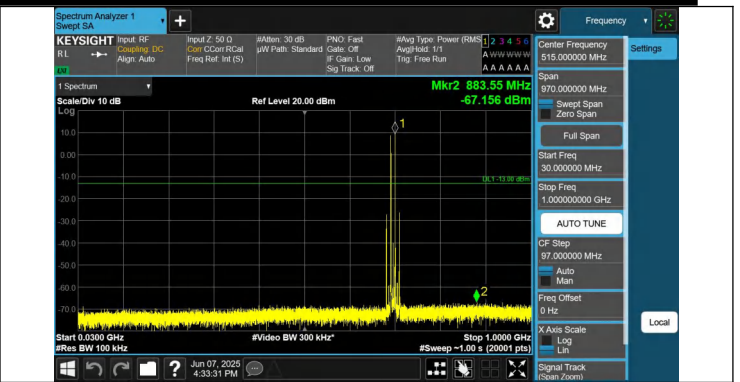
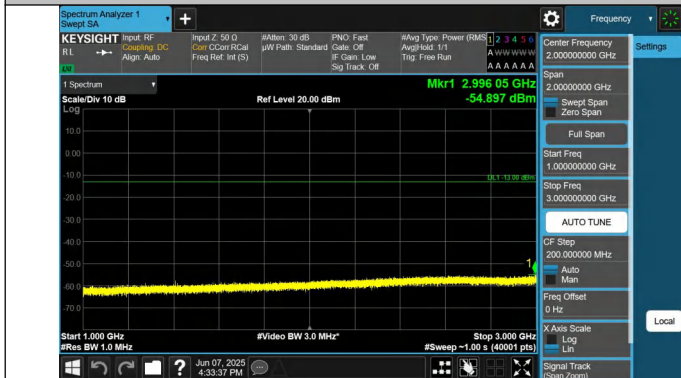
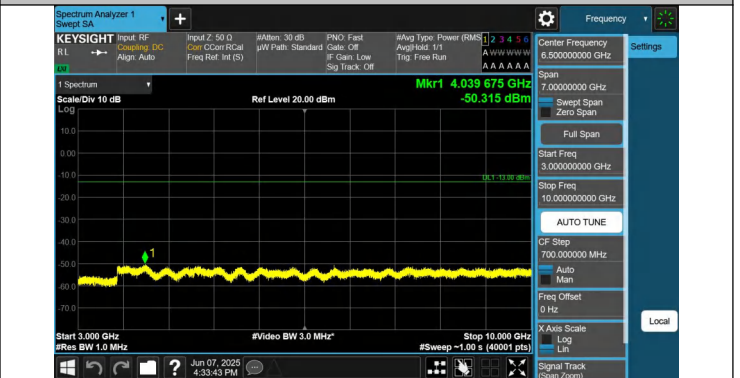
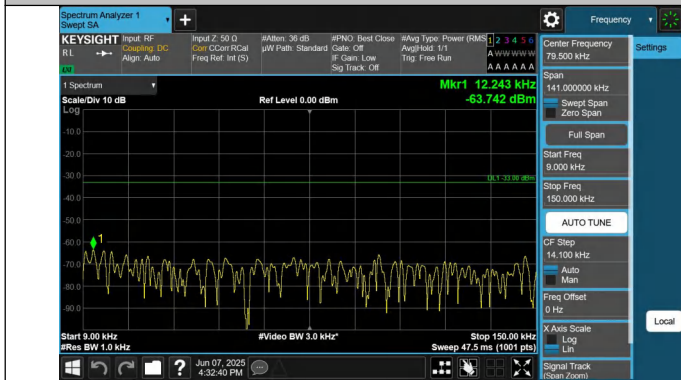
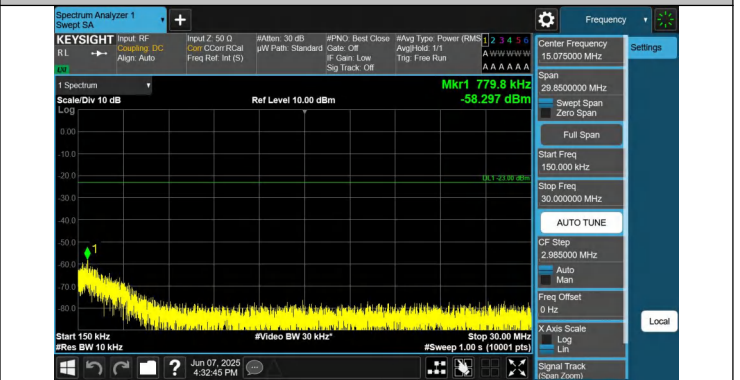
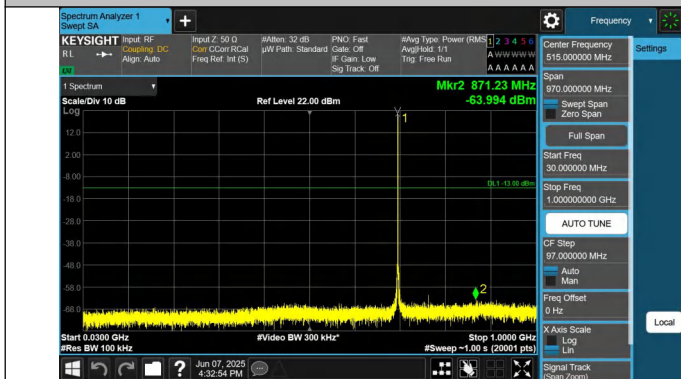
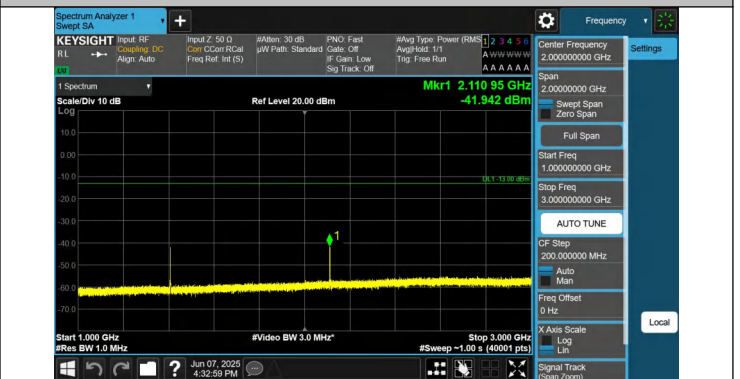
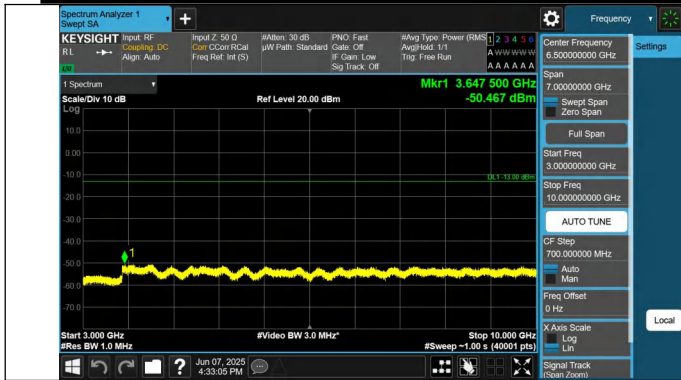
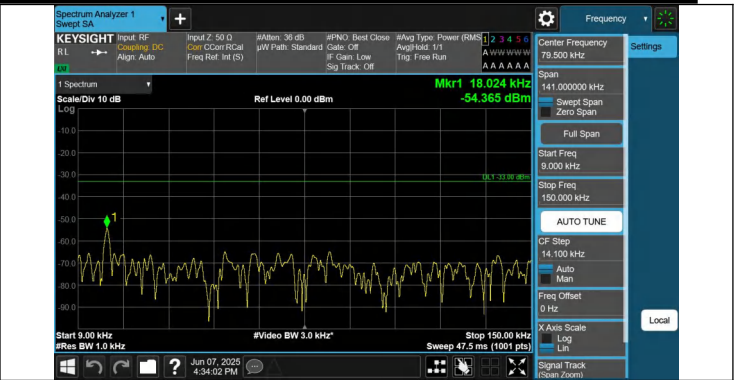
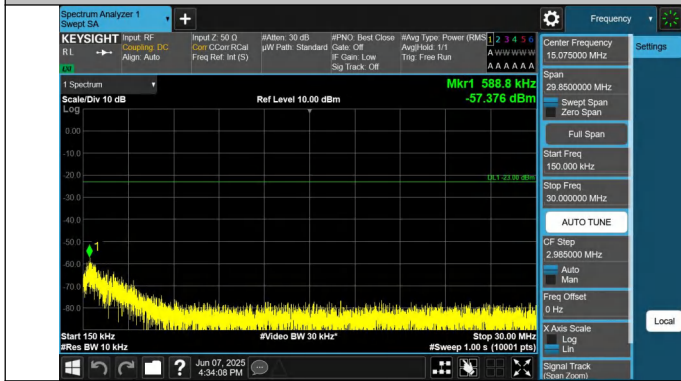
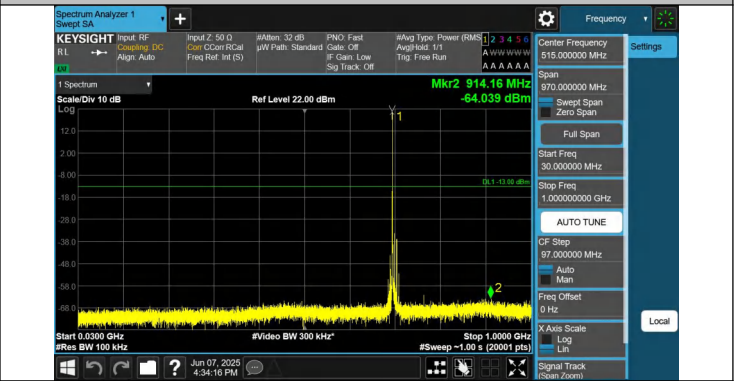
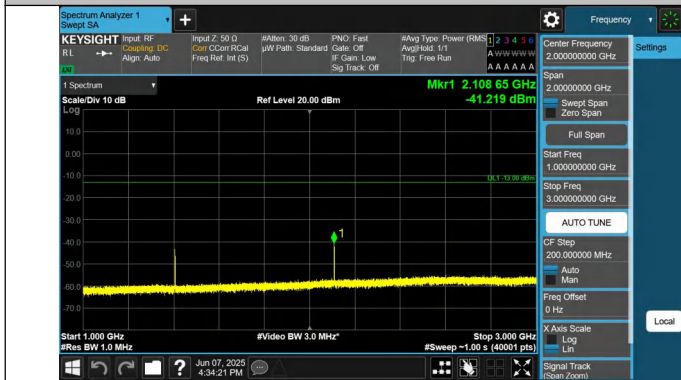
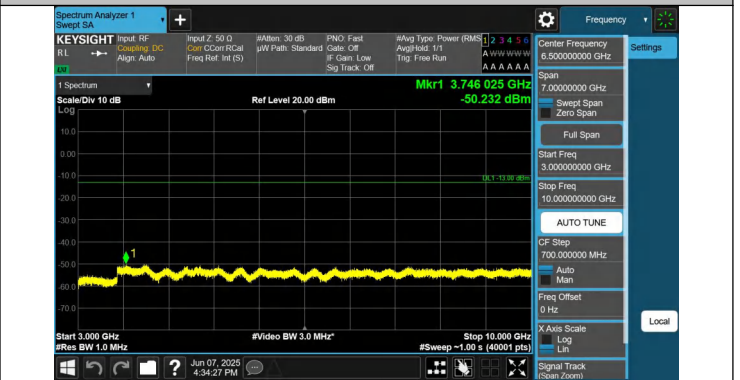
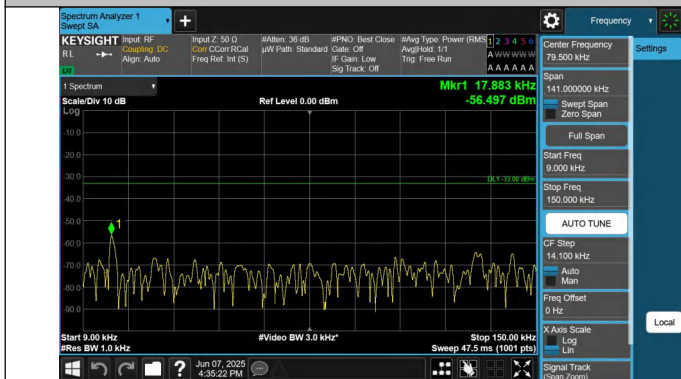
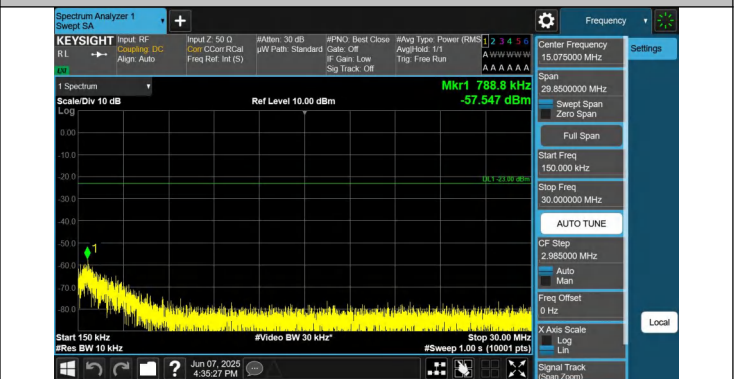
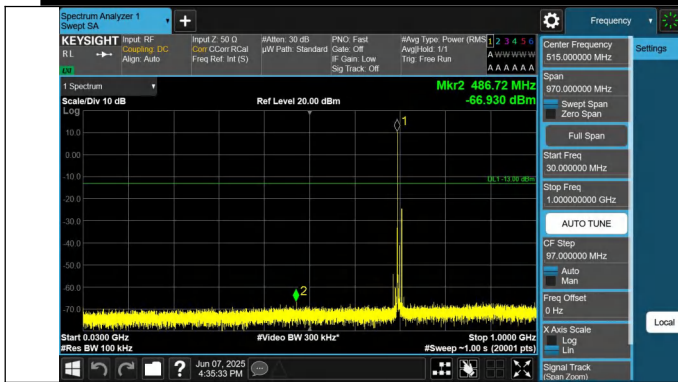
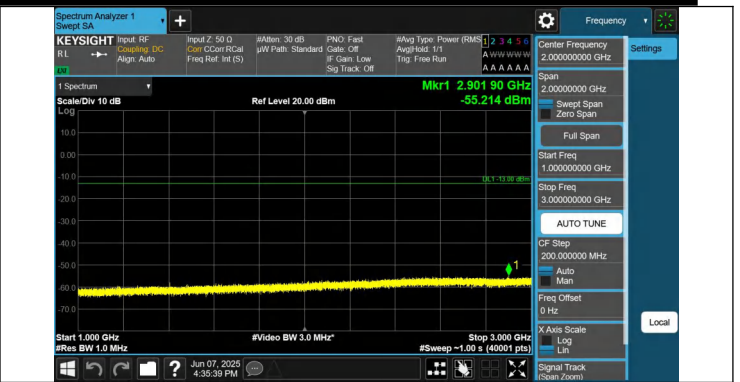
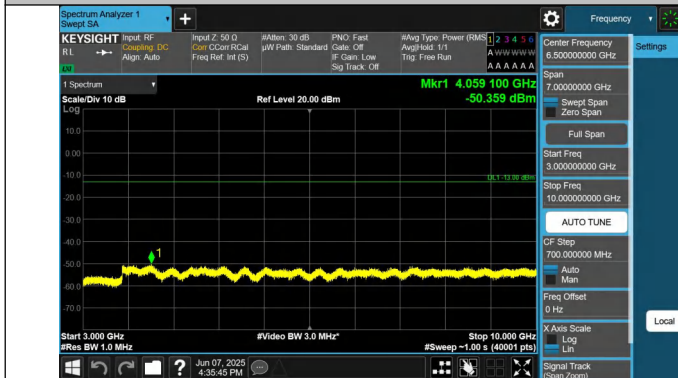
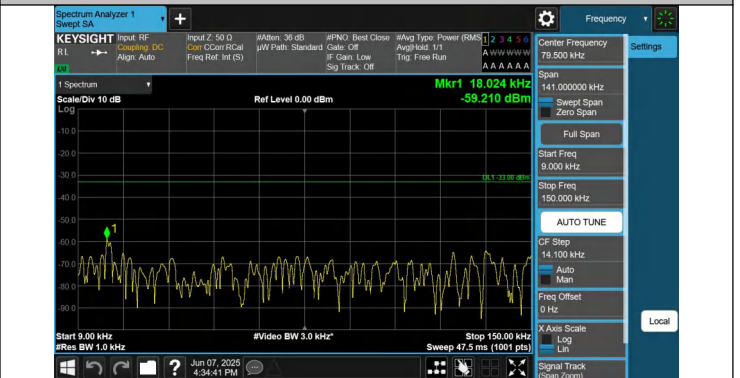
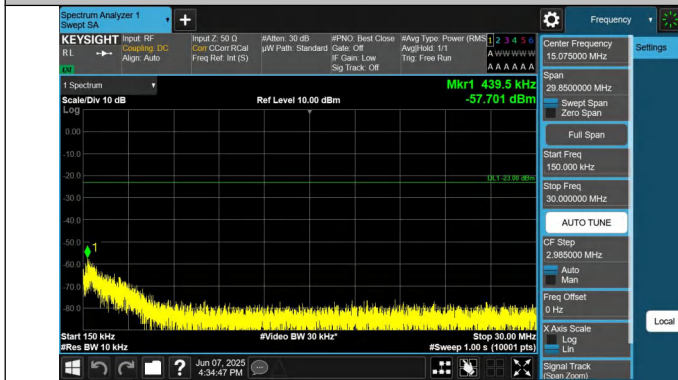
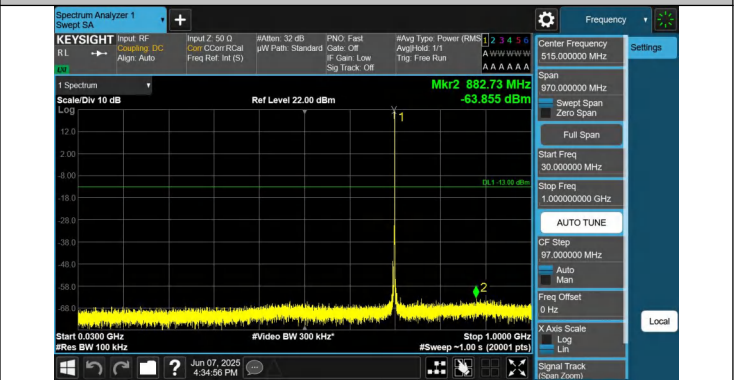
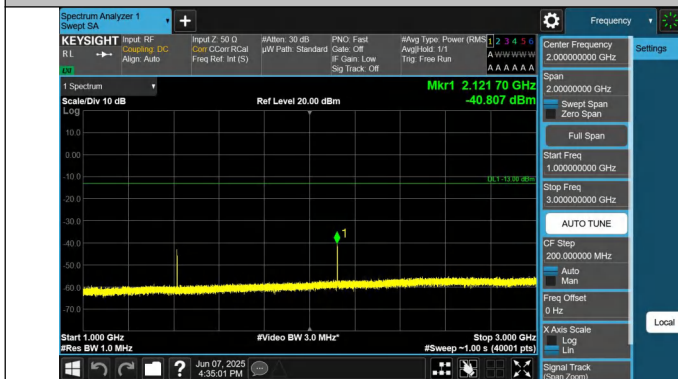
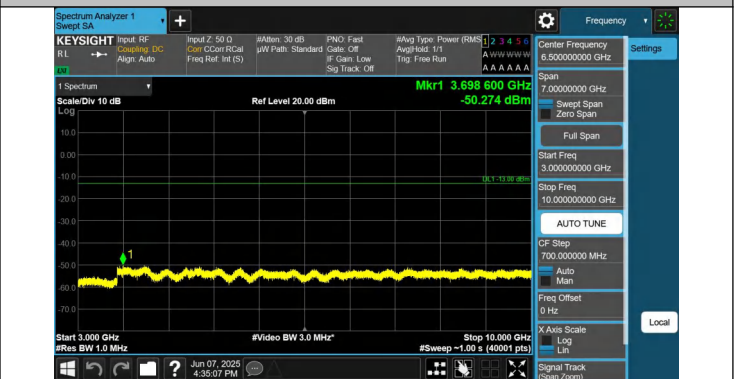
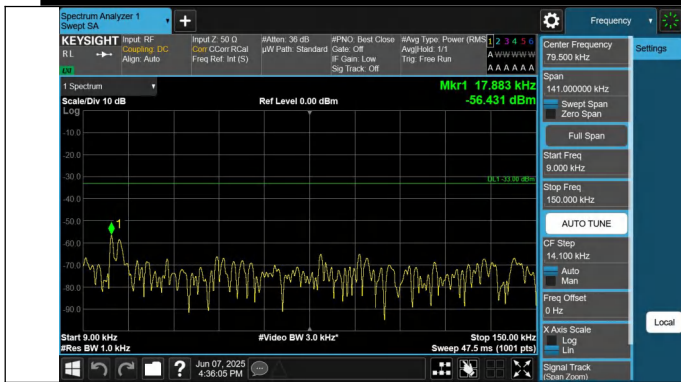
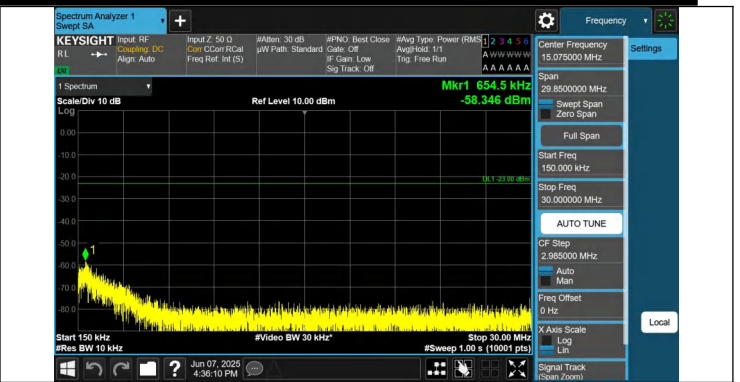
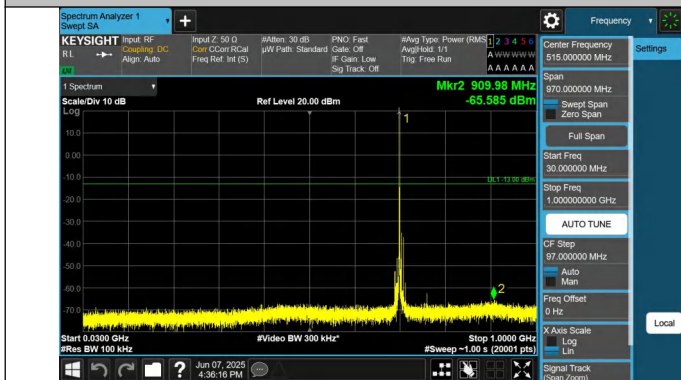
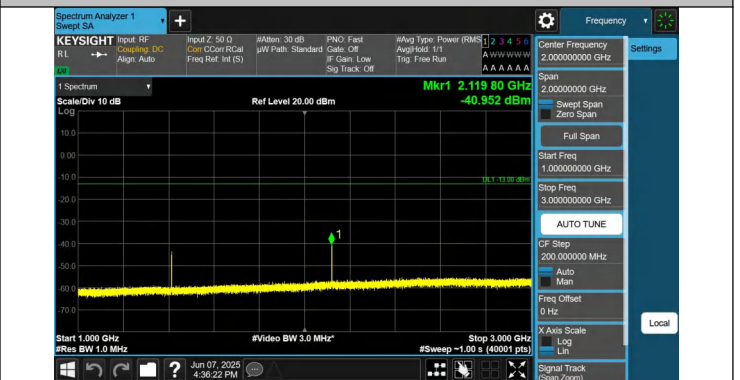
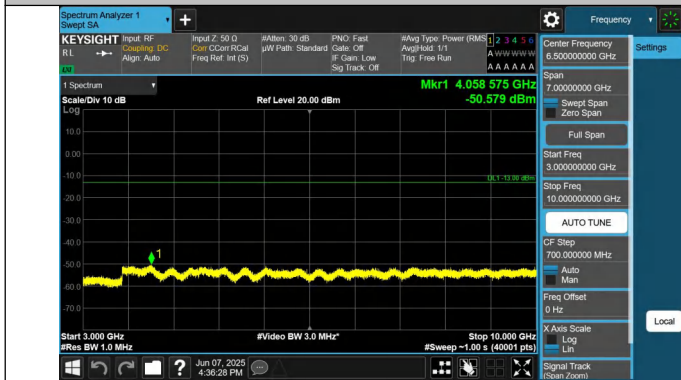
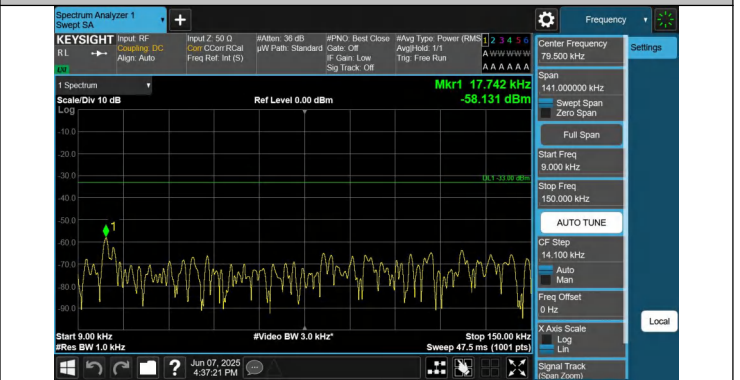
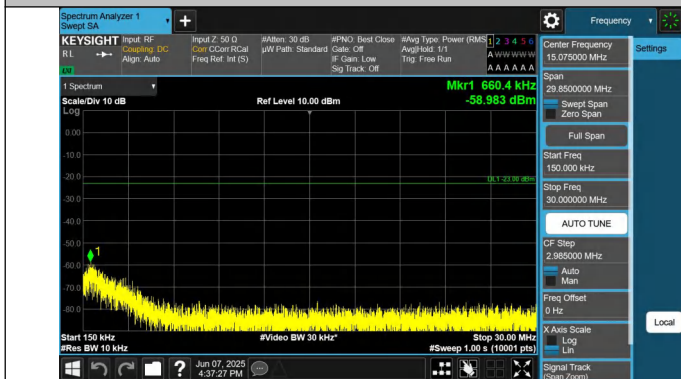
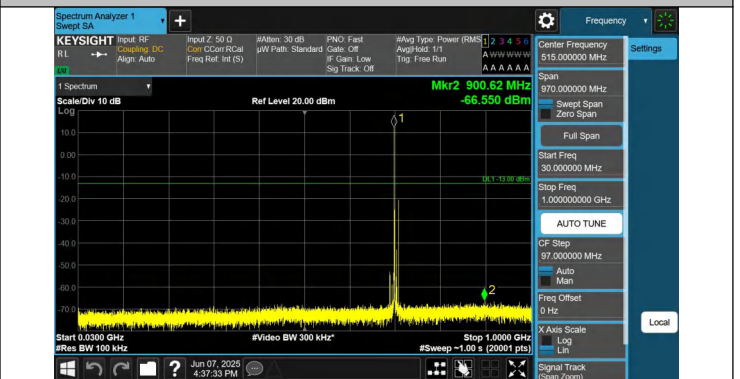
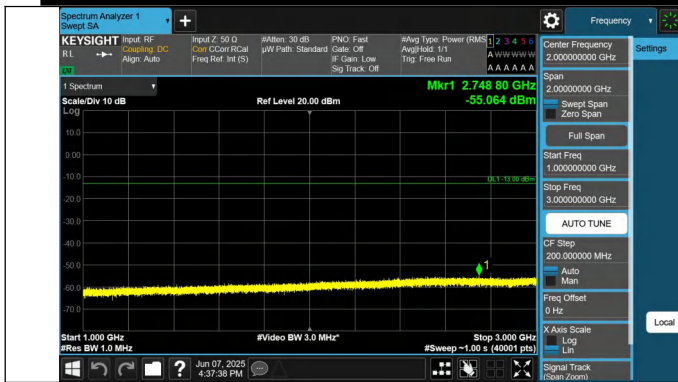
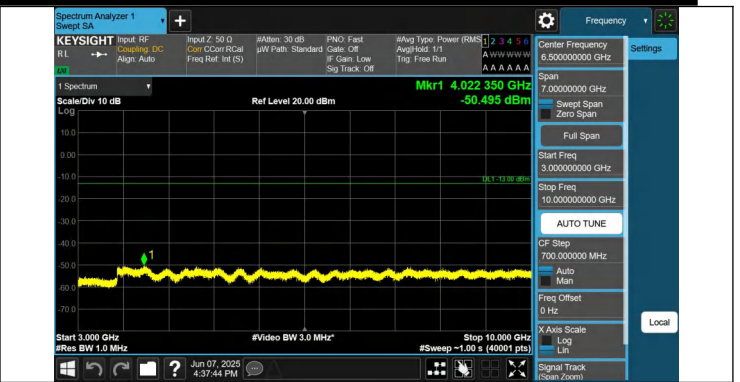
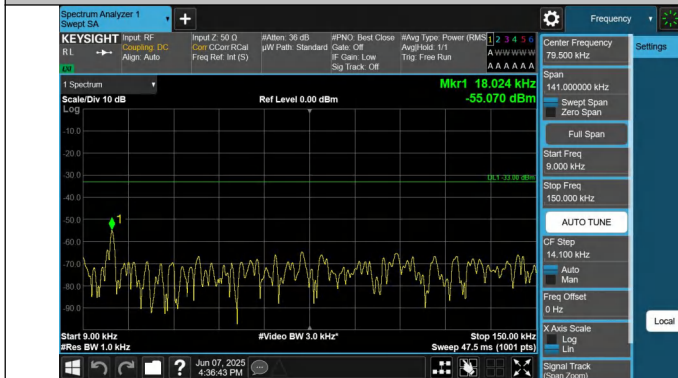
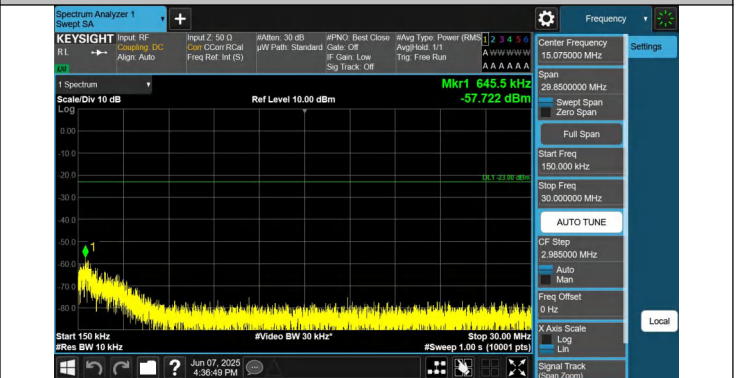
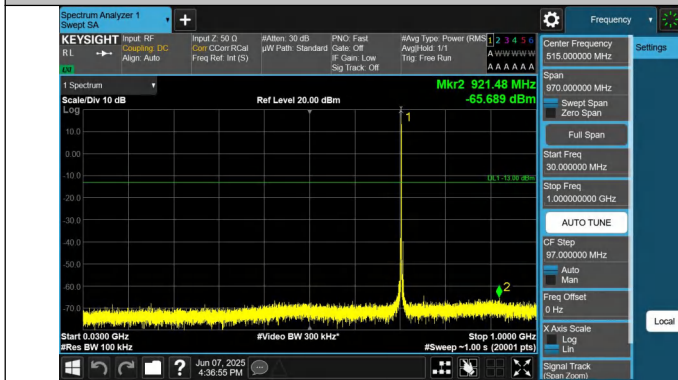
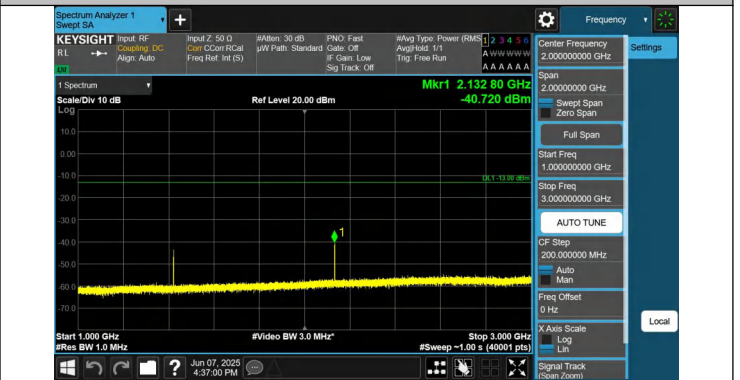
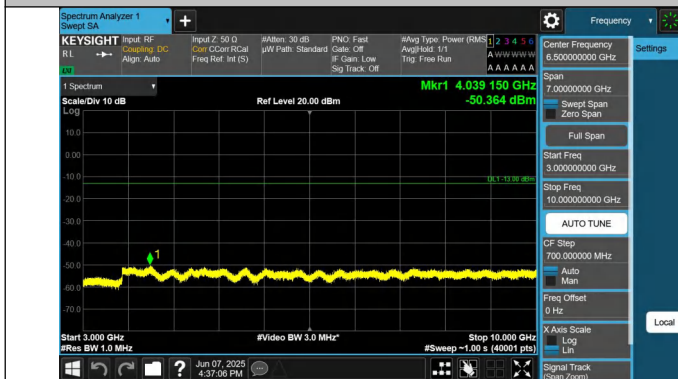
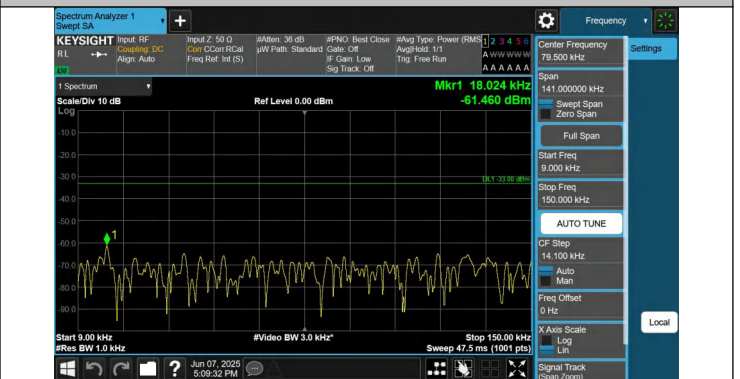


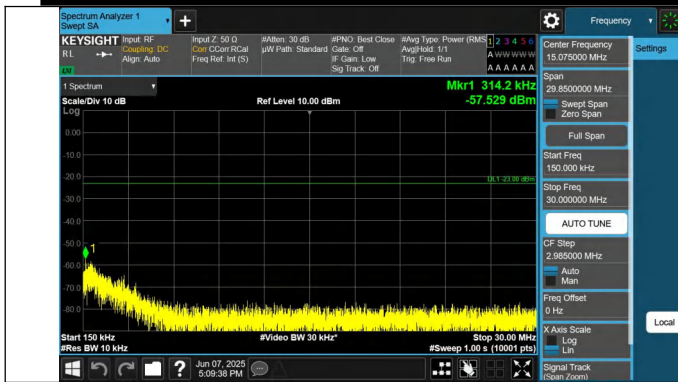
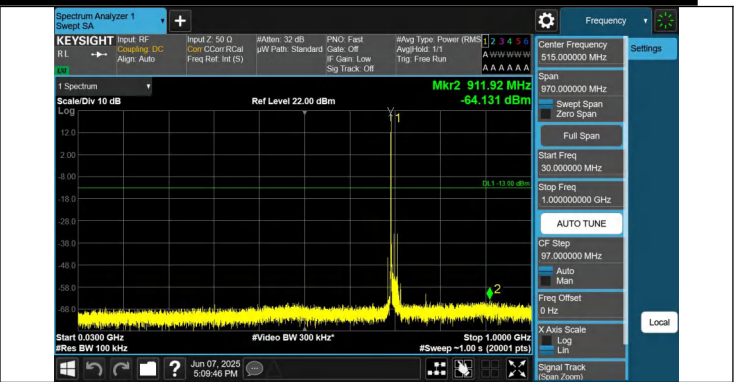
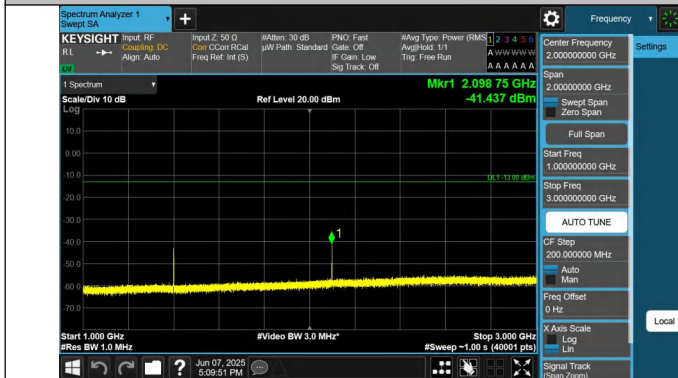
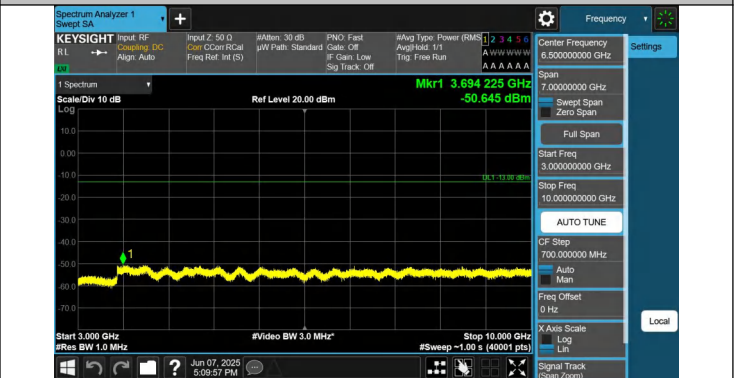
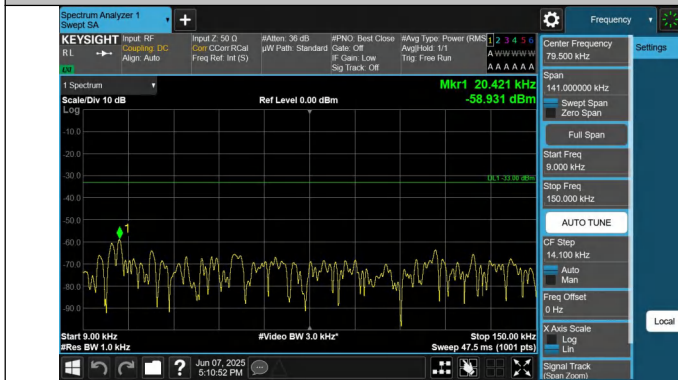
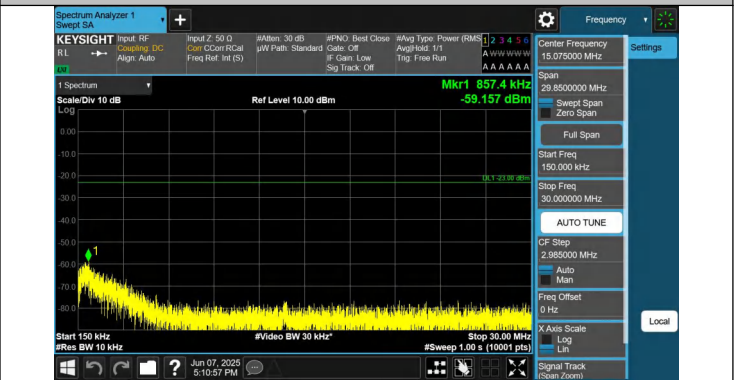
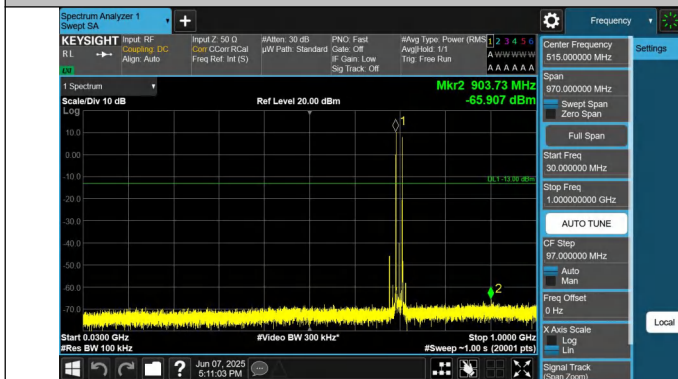
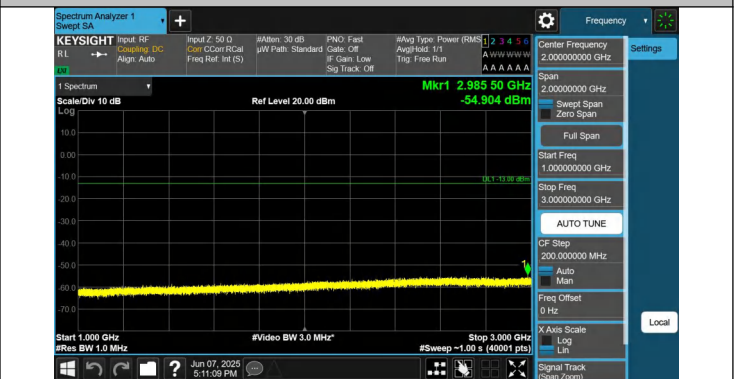

12-12-5MHz-5MHz-QPSK-QPSK-23035-23083-1RB#0-1RB#24-0
.15~30MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23035-23083-1RB#0-1RB#24-3
0~1000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23035-23083-1RB#0-1RB#24-1
000~3000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23035-23083-1RB#0-1RB#24-3
000~10000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23035-23083-1RB#24-0RB#0-0
.009~0.15MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23035-23083-1RB#24-0RB#0-0
.15~30MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23035-23083-1RB#24-0RB#0-3
0~1000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23035-23083-1RB#24-0RB#0-1
000~3000MHz-PASS

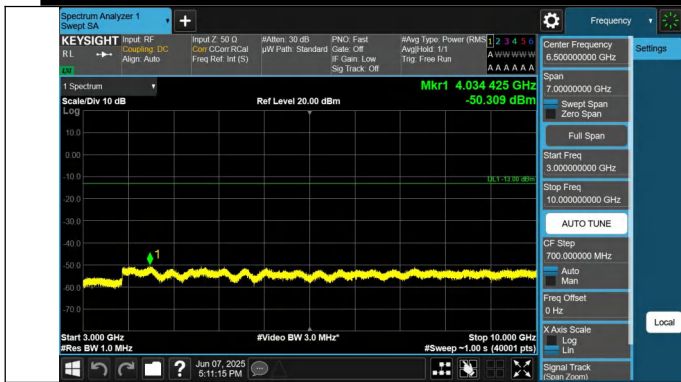
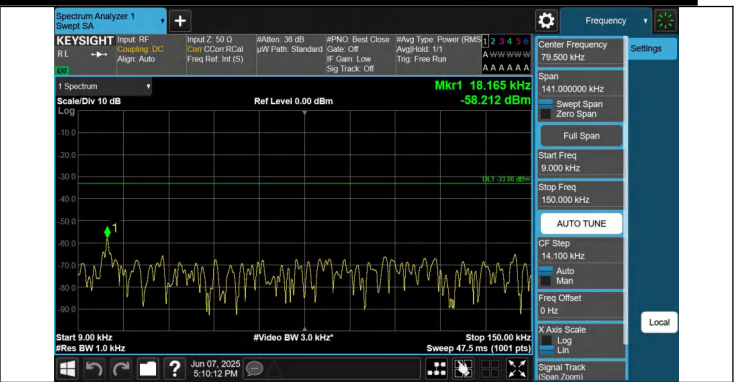
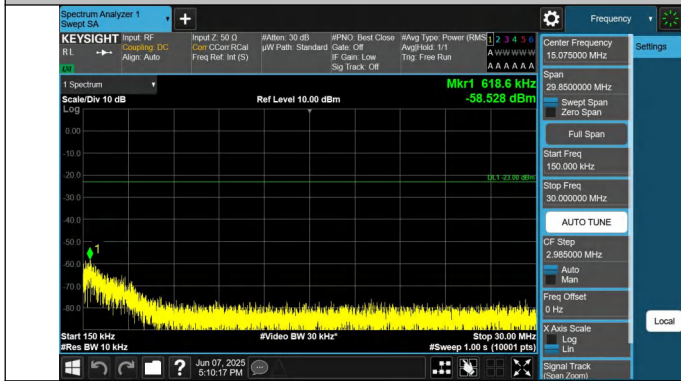
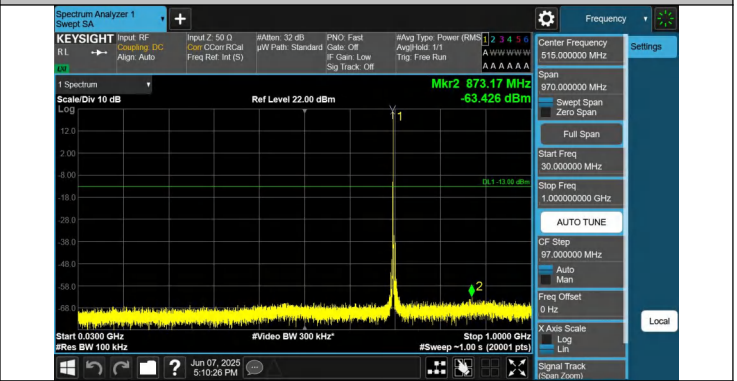

12-12-5MHz-5MHz-QPSK-QPSK-23035-23083-1RB#24-0RB#0-3
000~10000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23071-23119-1RB#0-0RB#0-0
09~0.15MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23071-23119-1RB#0-0RB#0-0.
15~30MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23071-23119-1RB#0-0RB#0-30
~1000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23071-23119-1RB#0-0RB#0-10
00~3000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23071-23119-1RB#0-0RB#0-30
00~10000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23071-23119-1RB#0-1RB#24-0
.009~0.15MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23071-23119-1RB#0-1RB#24-0.
15~30MHz-PASS

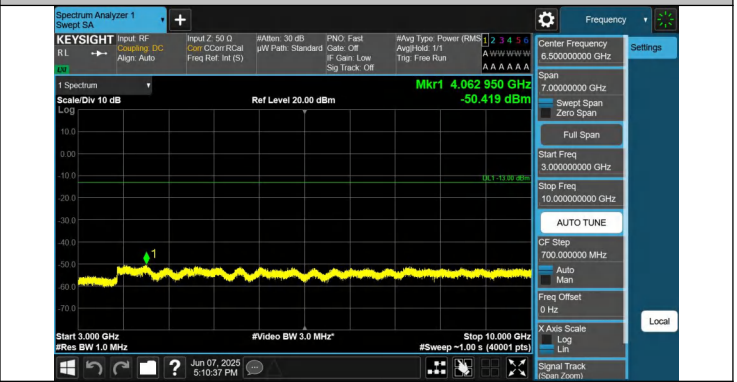
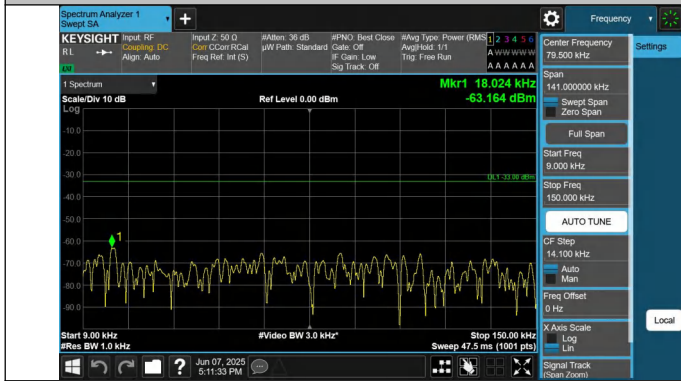
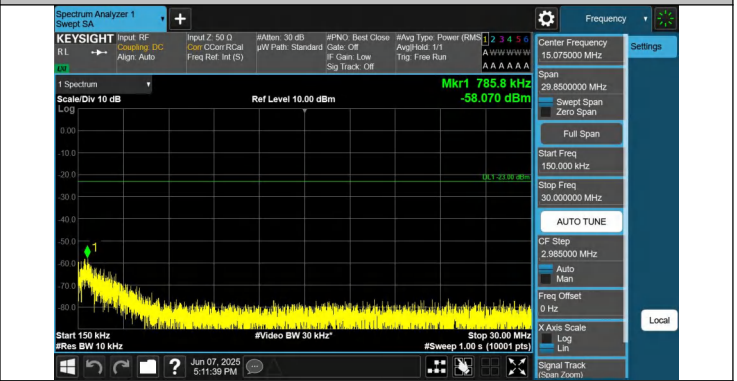

12-12-5MHz-5MHz-QPSK-QPSK-23071-23119-1RB#0-1RB#24-3
0~1000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23071-23119-1RB#0-1RB#24-1
000~3000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23071-23119-1RB#0-1RB#24-3
000~10000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23071-23119-1RB#24-0RB#0-0.
009~0.15MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23071-23119-1RB#24-0RB#0-0
.15~30MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23071-23119-1RB#24-0RB#0-3
0~1000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23071-23119-1RB#24-0RB#0-1
000~3000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23071-23119-1RB#24-0RB#0-3
000~10000MHz-PASS

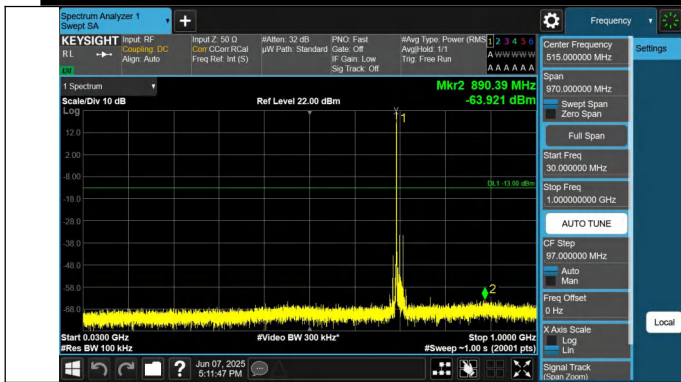
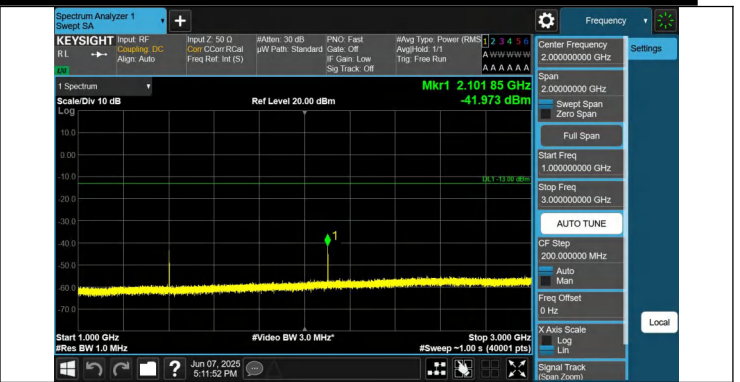
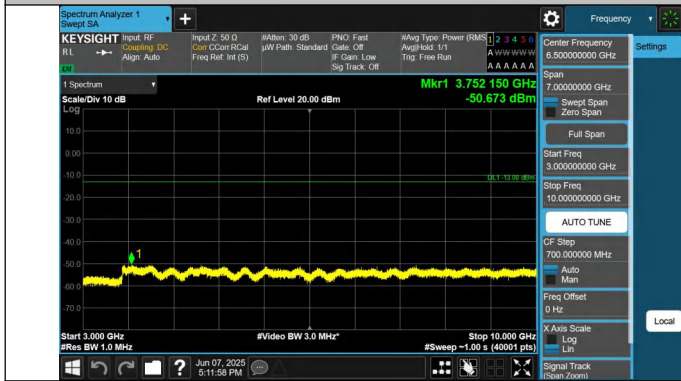
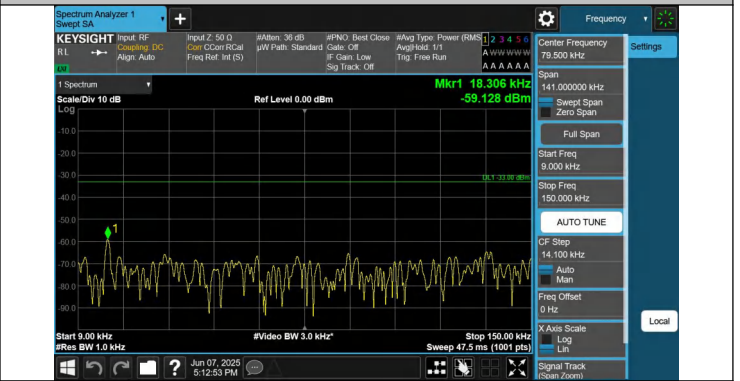
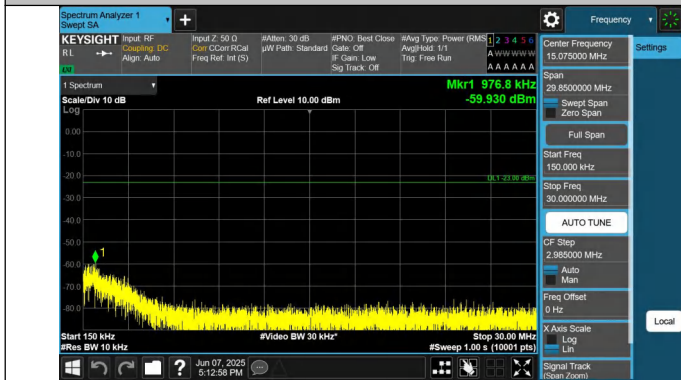
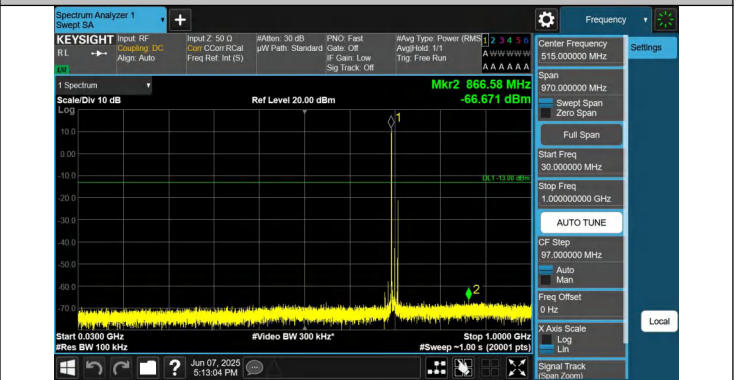
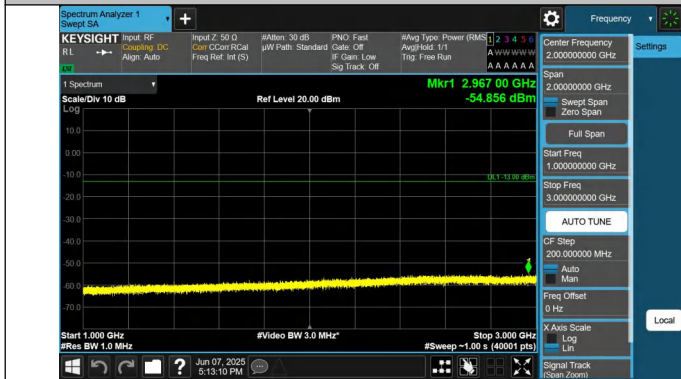
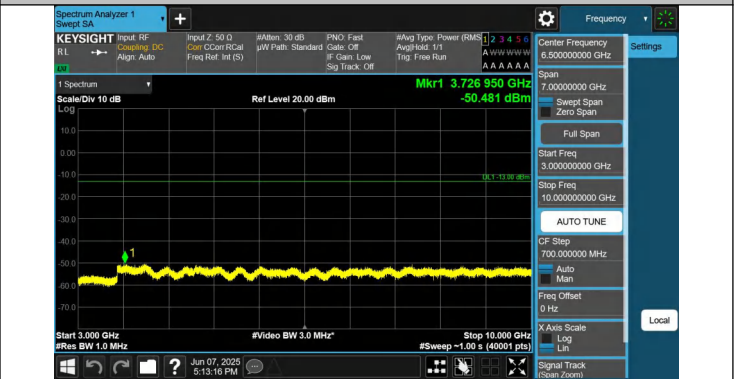

12-12-5MHz-5MHz-QPSK-QPSK-23107-23155-1RB#0-0RB#0-0.
009~0.15MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23107-23155-1RB#0-0RB#0-0.
15~30MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23107-23155-1RB#0-0RB#0-30
~1000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23107-23155-1RB#0-0RB#0-10
00~3000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23107-23155-1RB#0-0RB#0-30
00~10000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23107-23155-1RB#0-1RB#24-0
.009~0.15MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23107-23155-1RB#0-1RB#24-0
.15~30MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23107-23155-1RB#0-1RB#24-3
0~1000MHz-PASS

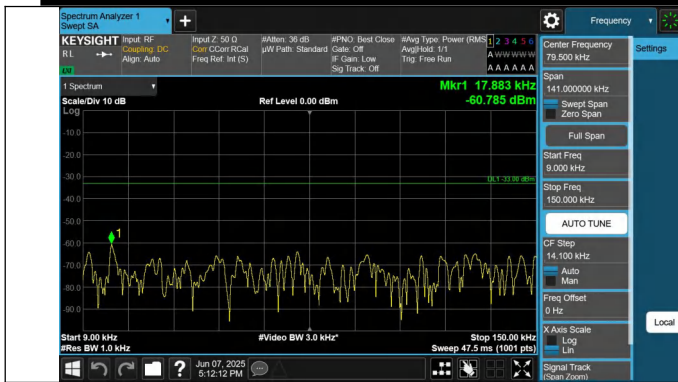
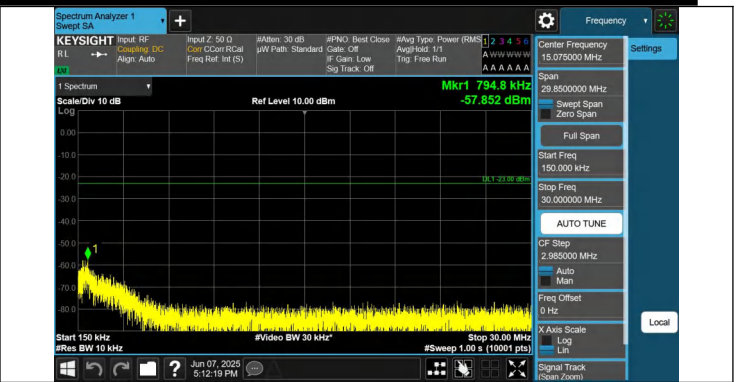
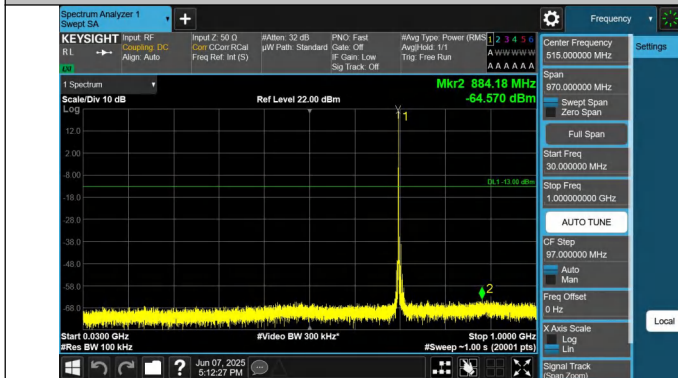

12-12-5MHz-5MHz-QPSK-QPSK-23107-23155-1RB#0-1RB#24-1
000~3000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23107-23155-1RB#0-1RB#24-3
000~10000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23107-23155-1RB#24-0RB#0-0
.009~0.15MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23107-23155-1RB#24-0RB#0-0
.15~30MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23107-23155-1RB#24-0RB#0-3
0~1000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23107-23155-1RB#24-0RB#0-1
000~3000MHz-PASS

12-12-5MHz-5MHz-QPSK-QPSK-23107-23155-1RB#24-0RB#0-3
000~10000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23038-23110-1RB#0-0RB#0-0.
009~0.15MHz-PASS

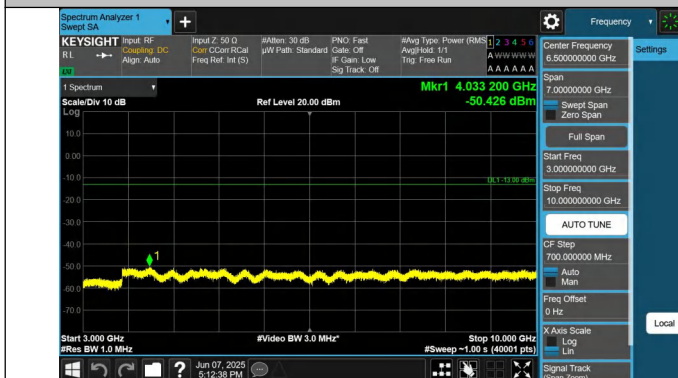
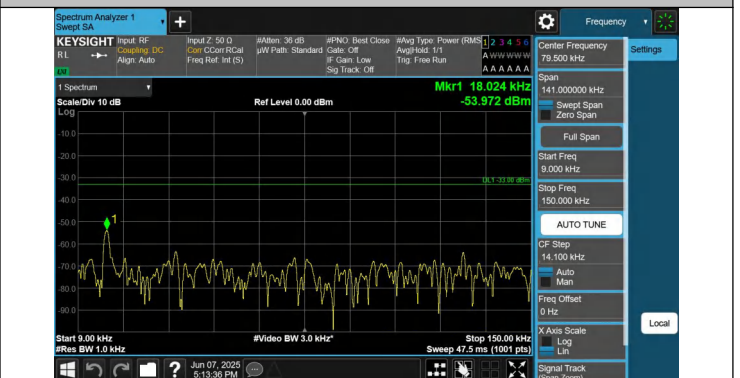
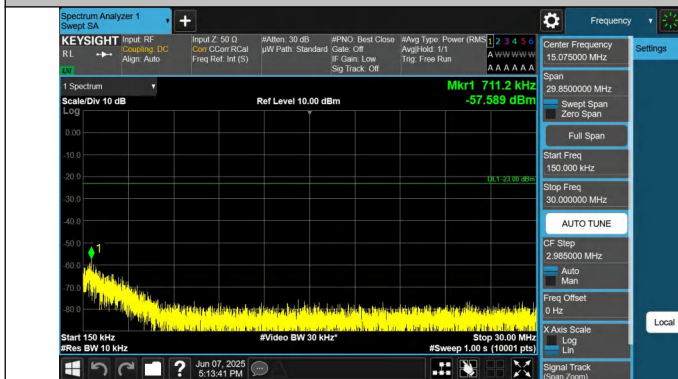
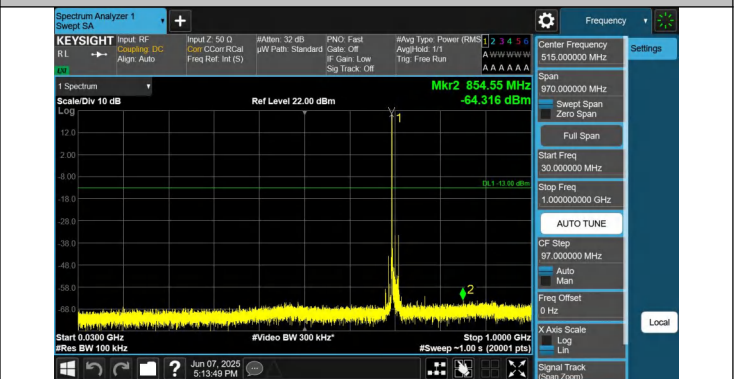

12-12-5MHz-10MHz-QPSK-QPSK-23038-23110-1RB#0-0RB#0-0
.15~30MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23038-23110-1RB#0-0RB#0-3
0~1000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23038-23110-1RB#0-0RB#0-1
000~3000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23038-23110-1RB#0-0RB#0-3
000~10000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23038-23110-1RB#0-1RB#49-
0.009~0.15MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23038-23110-1RB#0-1RB#49-
0.15~30MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23038-23110-1RB#0-1RB#49-
30~1000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23038-23110-1RB#0-1RB#49-
1000~3000MHz-PASS

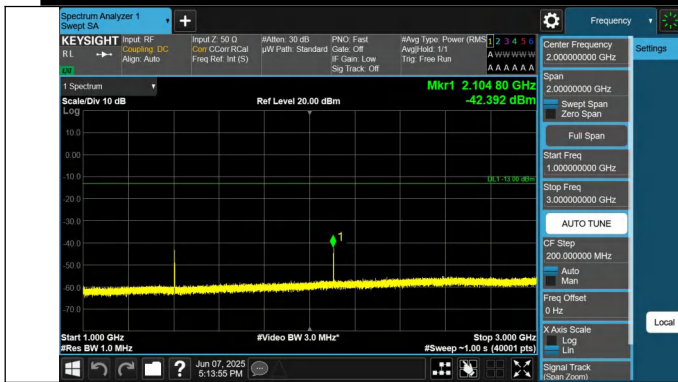
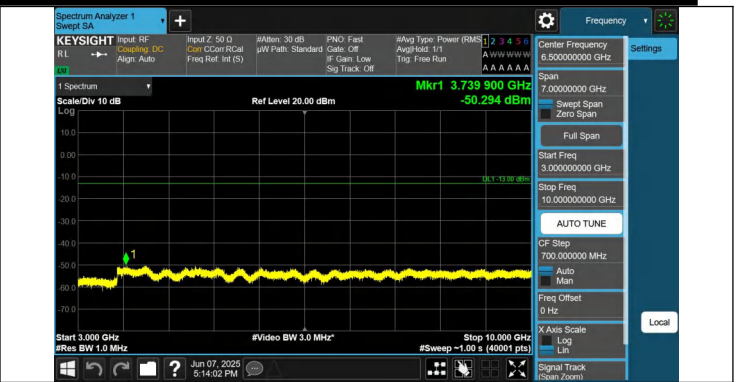
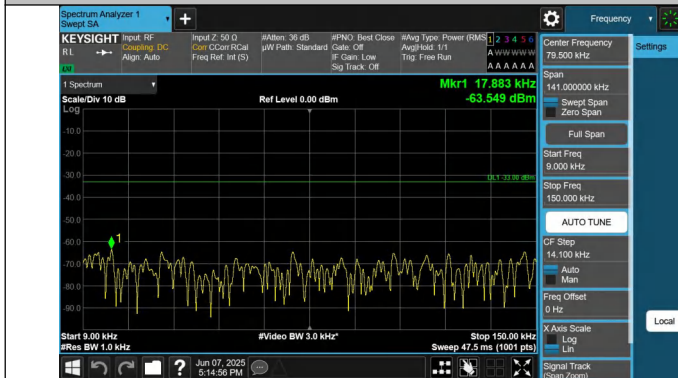
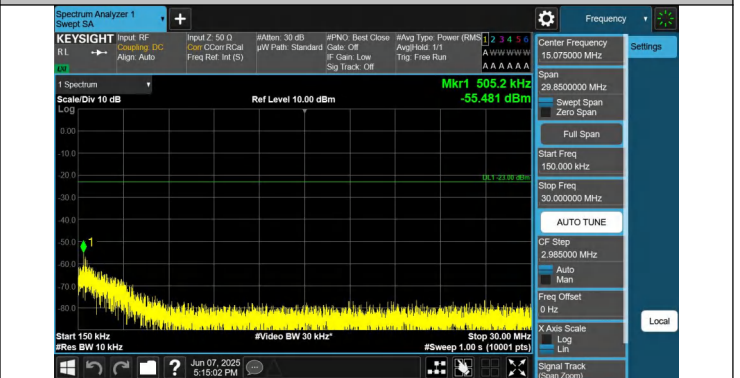
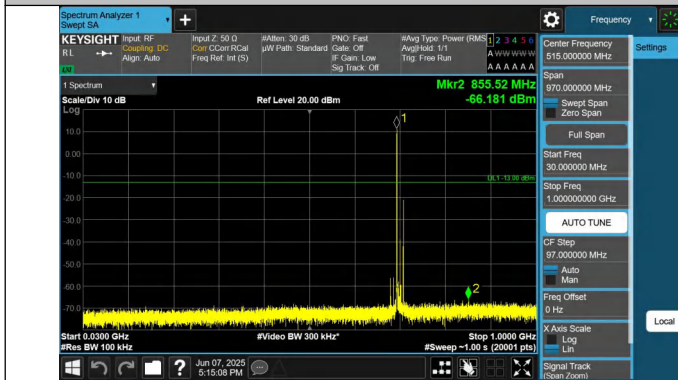
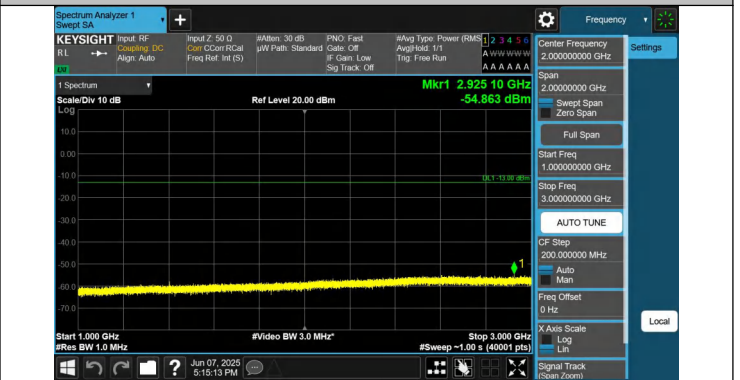
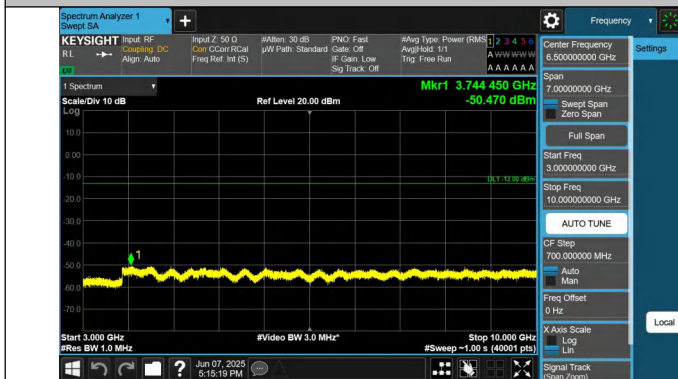
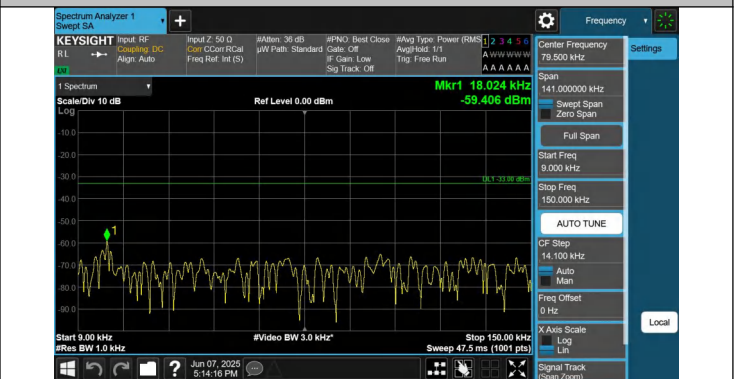

12-12-5MHz-10MHz-QPSK-QPSK-23038-23110-1RB#0-1RB#49-
3000~10000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23038-23110-1RB#24-0RB#0-
0.009~0.15MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23038-23110-1RB#24-0RB#0-
0.15~30MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23038-23110-1RB#24-0RB#0-
30~1000MHz-PASS

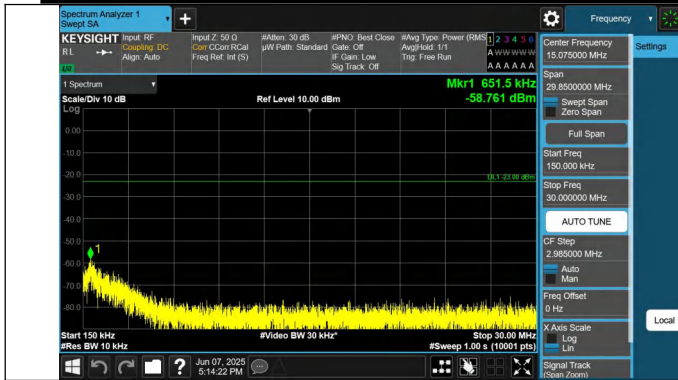
12-12-5MHz-10MHz-QPSK-QPSK-23038-23110-1RB#24-0RB#0-
1000~3000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23038-23110-1RB#24-0RB#0-
3000~10000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23048-23120-1RB#0-0RB#0-0
.009~0.15MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23048-23120-1RB#0-0RB#0-0
.15~30MHz-PASS


12-12-5MHz-10MHz-QPSK-QPSK-23048-23120-1RB#0-0RB#0-3
0~1000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23048-23120-1RB#0-0RB#0-1
000~3000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23048-23120-1RB#0-0RB#0-3
000~10000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23048-23120-1RB#0-1RB#49-
0.009~0.15MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23048-23120-1RB#0-1RB#49-
0.15~30MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23048-23120-1RB#0-1RB#49-
30~1000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23048-23120-1RB#0-1RB#49-
1000~3000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23048-23120-1RB#0-1RB#49-
3000~10000MHz-PASS

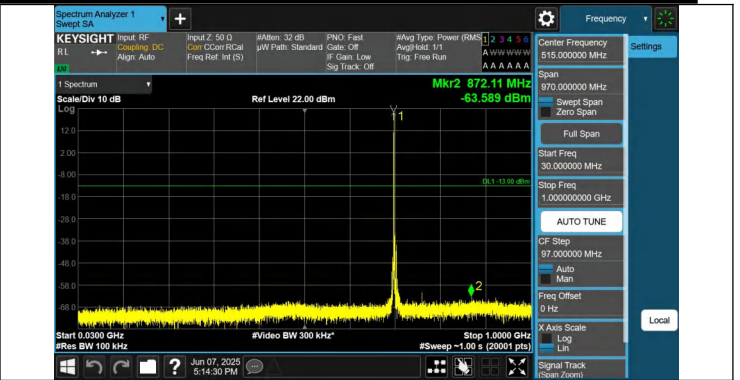

12-12-5MHz-10MHz-QPSK-QPSK-23048-23120-1RB#24-0RB#0-
0.009~0.15MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23048-23120-1RB#24-0RB#0-
0.15~30MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23048-23120-1RB#24-0RB#0-
30~1000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23048-23120-1RB#24-0RB#0-
1000~3000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23048-23120-1RB#24-0RB#0-
3000~10000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23058-23130-1RB#0-0RB#0-0
.009~0.15MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23058-23130-1RB#0-0RB#0-0
.15~30MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23058-23130-1RB#0-0RB#0-3
0~1000MHz-PASS

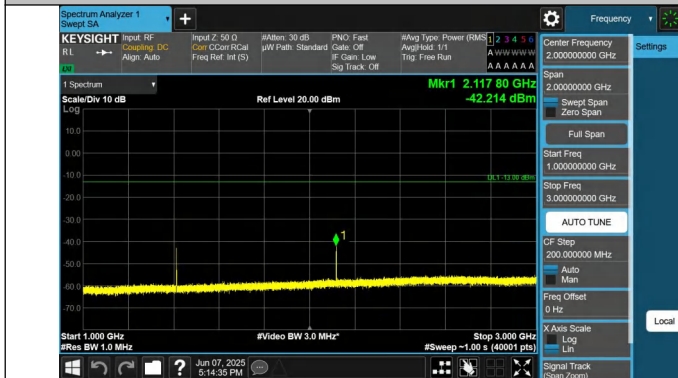

12-12-5MHz-10MHz-QPSK-QPSK-23058-23130-1RB#0-0RB#0-1
000~3000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23058-23130-1RB#0-0RB#0-3
000~10000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23058-23130-1RB#0-1RB#49-
0.009~0.15MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23058-23130-1RB#0-1RB#49-
0.15~30MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23058-23130-1RB#0-1RB#49-
30~1000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23058-23130-1RB#0-1RB#49-
1000~3000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23058-23130-1RB#0-1RB#49-
3000~10000MHz-PASS

12-12-5MHz-10MHz-QPSK-QPSK-23058-23130-1RB#24-0RB#0-
0.009~0.15MHz-PASS



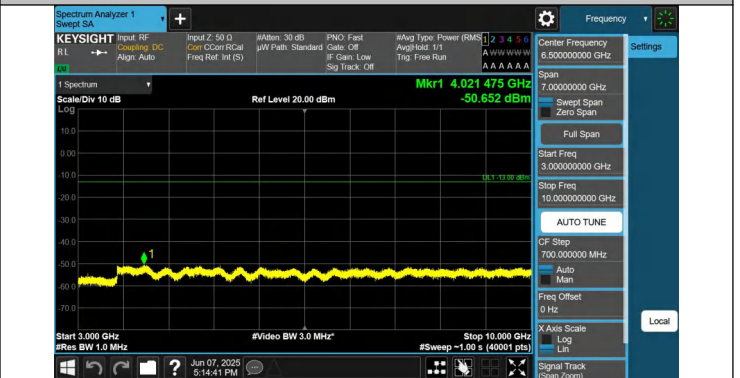
12-12-5MHz-10MHz-QPSK-QPSK-23058-23130-1RB#24-0RB#0-
0.15~30MHz-PASS



12-12-5MHz-10MHz-QPSK-QPSK-23058-23130-1RB#24-0RB#0-
30~1000MHz-PASS



12-12-5MHz-10MHz-QPSK-QPSK-23058-23130-1RB#24-0RB#0-
1000~3000MHz-PASS



12-12-5MHz-10MHz-QPSK-QPSK-23058-23130-1RB#24-0RB#0-
3000~10000MHz-PASS

Frequency Stability

Test Result

Voltage													
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
12-12	5MHz-10 MHz	QPSK-Q PSK	23048-2 3120	25RB#0-50 RB#0	VN	NT	1790.00	2.530035	±N A	703.03004	711.97354	699-716	PASS
12-12	5MHz-10 MHz	QPSK-Q PSK	23048-2 3120	25RB#0-50 RB#0	VL	NT	390.00	0.551237	±N A	703.02704	711.97374	699-716	PASS
12-12	5MHz-10 MHz	QPSK-Q PSK	23048-2 3120	25RB#0-50 RB#0	VH	NT	580.00	0.819788	±N A	703.02798	711.97318	699-716	PASS

Temperature													
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	FL (MHz)	FH (MHz)	Limit (MHz)	Verdict
12-12	5MHz-10 MHz	QPSK-Q PSK	23048-2 3120	25RB#0-50 RB#0	NV	-30	-890.00	-1.257951	±N A	703.02886	711.96936	699-716	PASS
12-12	5MHz-10 MHz	QPSK-Q PSK	23048-2 3120	25RB#0-50 RB#0	NV	-20	-1480.00	-2.091873	±N A	703.02327	711.97377	699-716	PASS
12-12	5MHz-10 MHz	QPSK-Q PSK	23048-2 3120	25RB#0-50 RB#0	NV	-10	1530.00	2.162544	±N A	703.02973	711.97333	699-716	PASS
12-12	5MHz-10 MHz	QPSK-Q PSK	23048-2 3120	25RB#0-50 RB#0	NV	0	1730.00	2.445230	±N A	703.03103	711.97243	699-716	PASS
12-12	5MHz-10 MHz	QPSK-Q PSK	23048-2 3120	25RB#0-50 RB#0	NV	10	-970.00	-1.371025	±N A	703.02733	711.97073	699-716	PASS
12-12	5MHz-10 MHz	QPSK-Q PSK	23048-2 3120	25RB#0-50 RB#0	NV	20	-150.00	-0.212014	±N A	703.0234	711.9763	699-716	PASS
12-12	5MHz-10 MHz	QPSK-Q PSK	23048-2 3120	25RB#0-50 RB#0	NV	30	-3180.00	-4.494700	±N A	703.02522	711.96842	699-716	PASS
12-12	5MHz-10 MHz	QPSK-Q PSK	23048-2 3120	25RB#0-50 RB#0	NV	40	2090.00	2.954064	±N A	703.03164	711.97254	699-716	PASS
12-12	5MHz-10 MHz	QPSK-Q PSK	23048-2 3120	25RB#0-50 RB#0	NV	50	-1800.00	-2.544170	±N A	703.0288	711.9676	699-716	PASS

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