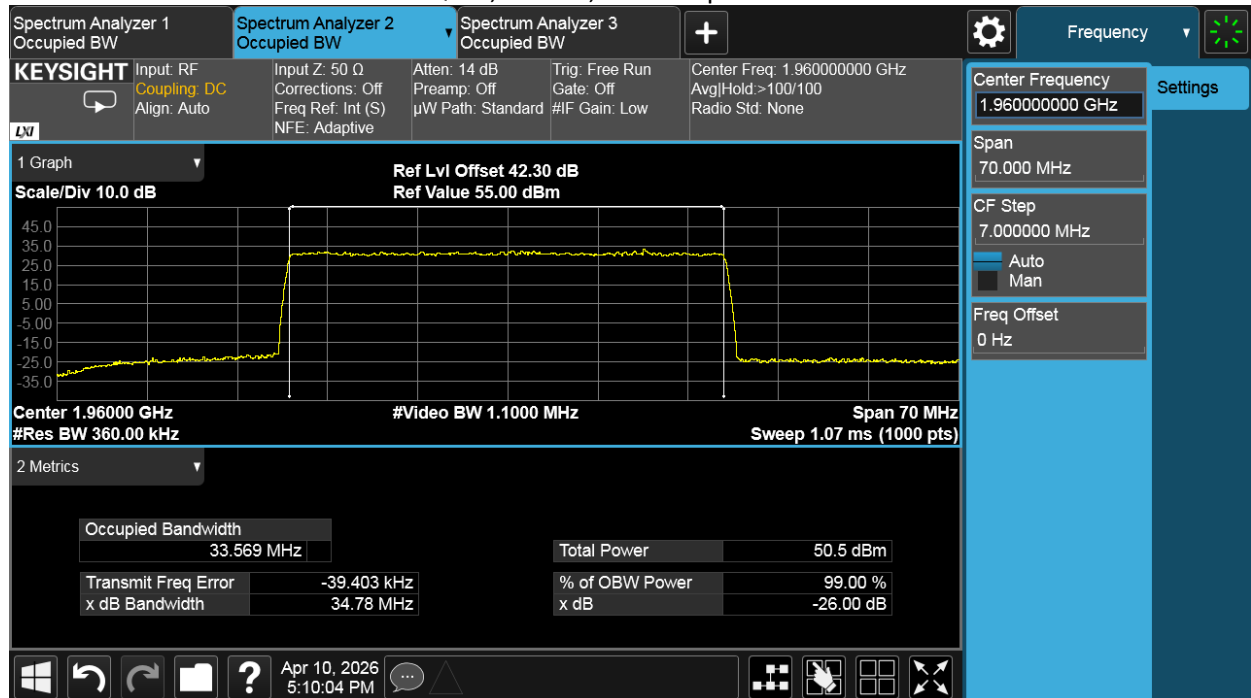
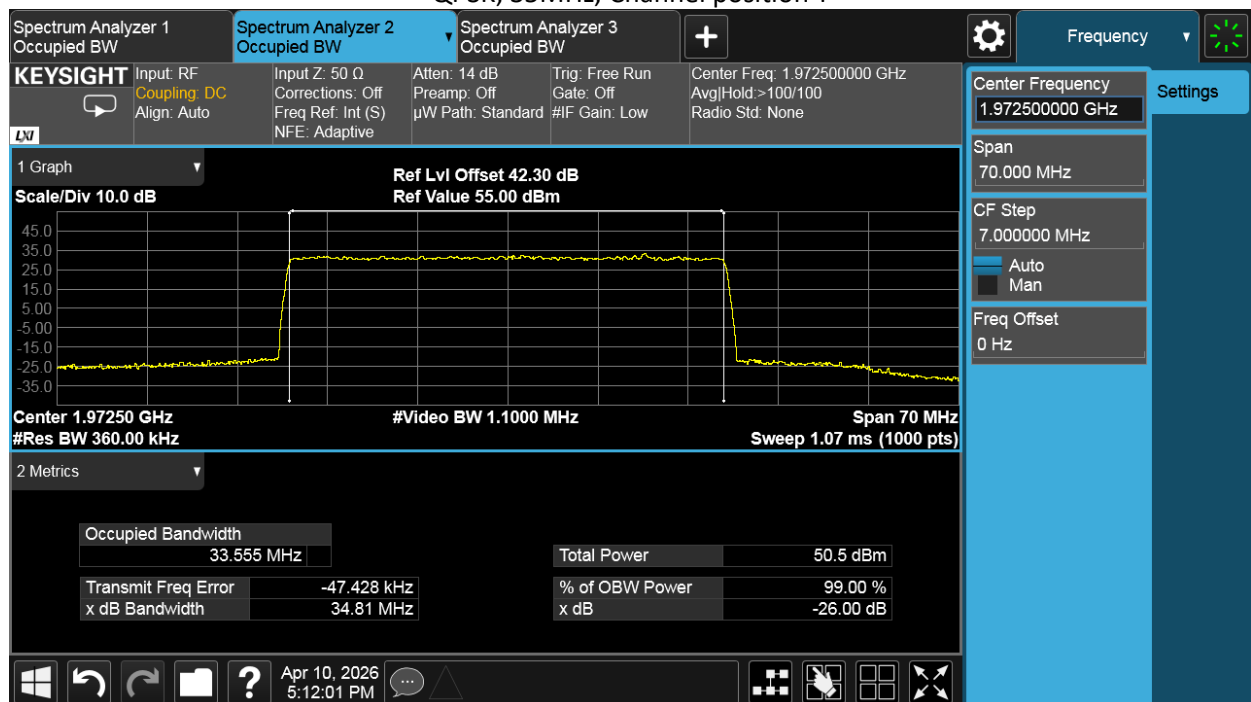


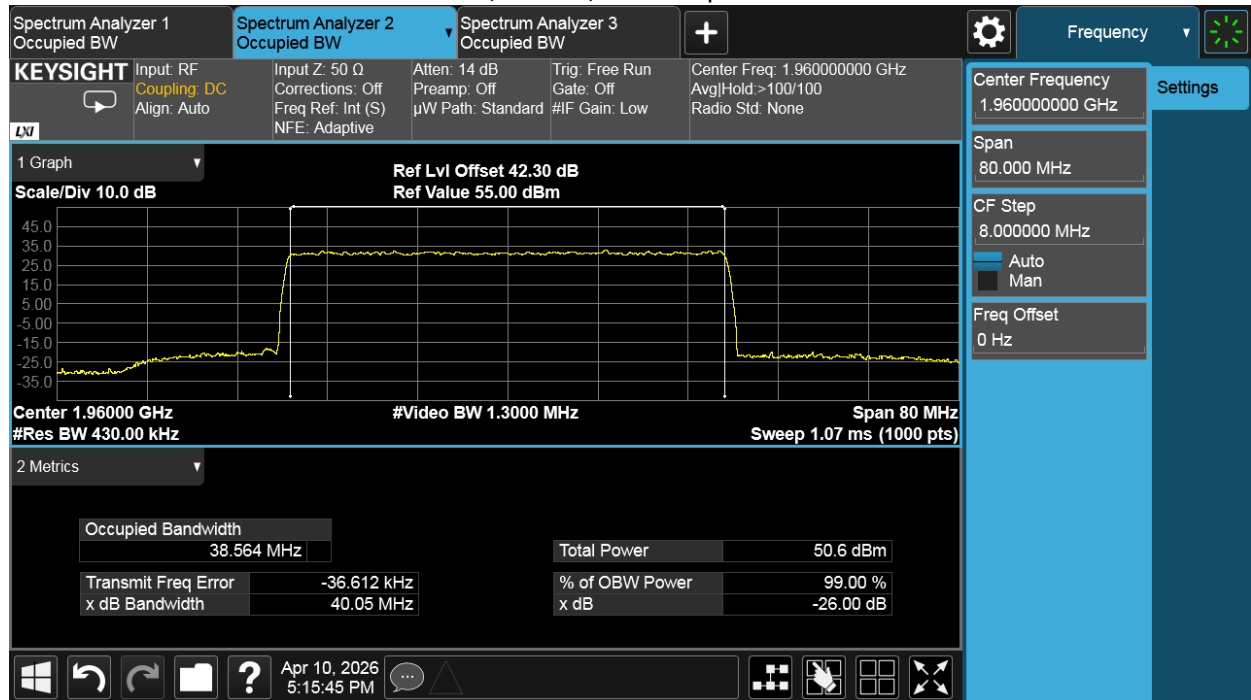
QPSK, 35MHz, Channel position M



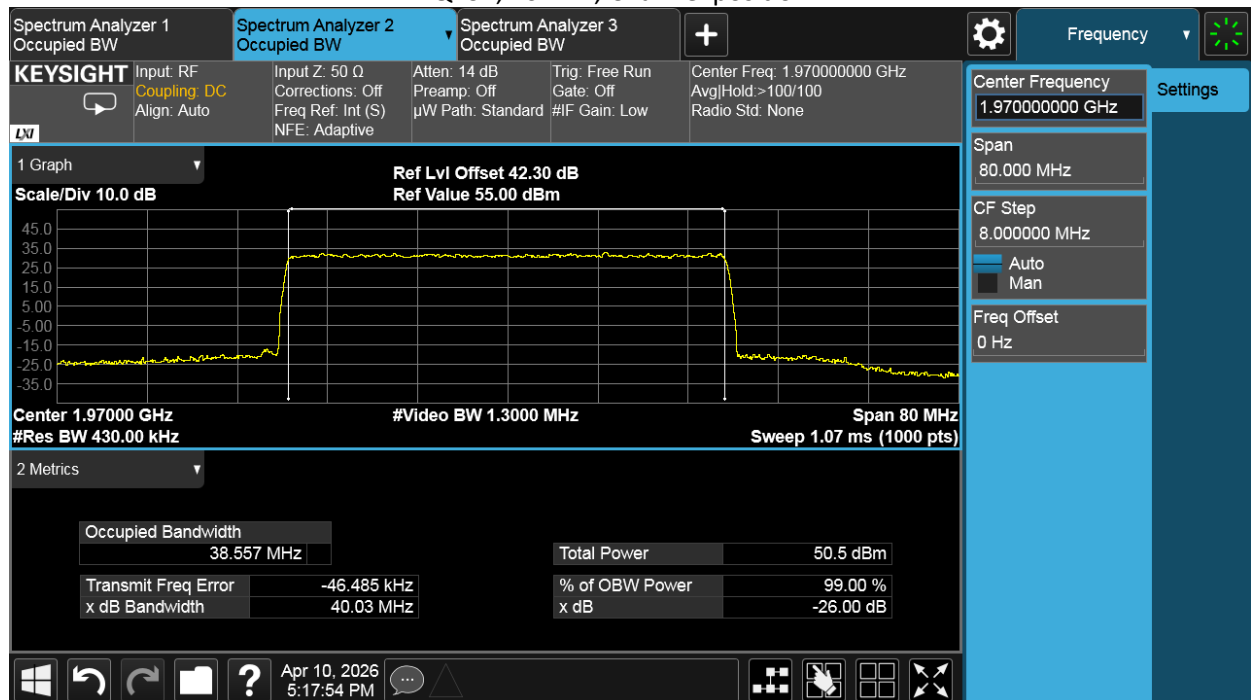
QPSK, 35MHz, Channel position T



QPSK, 40MHz, Channel position M



QPSK, 40MHz, Channel position T



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TEST REPORT

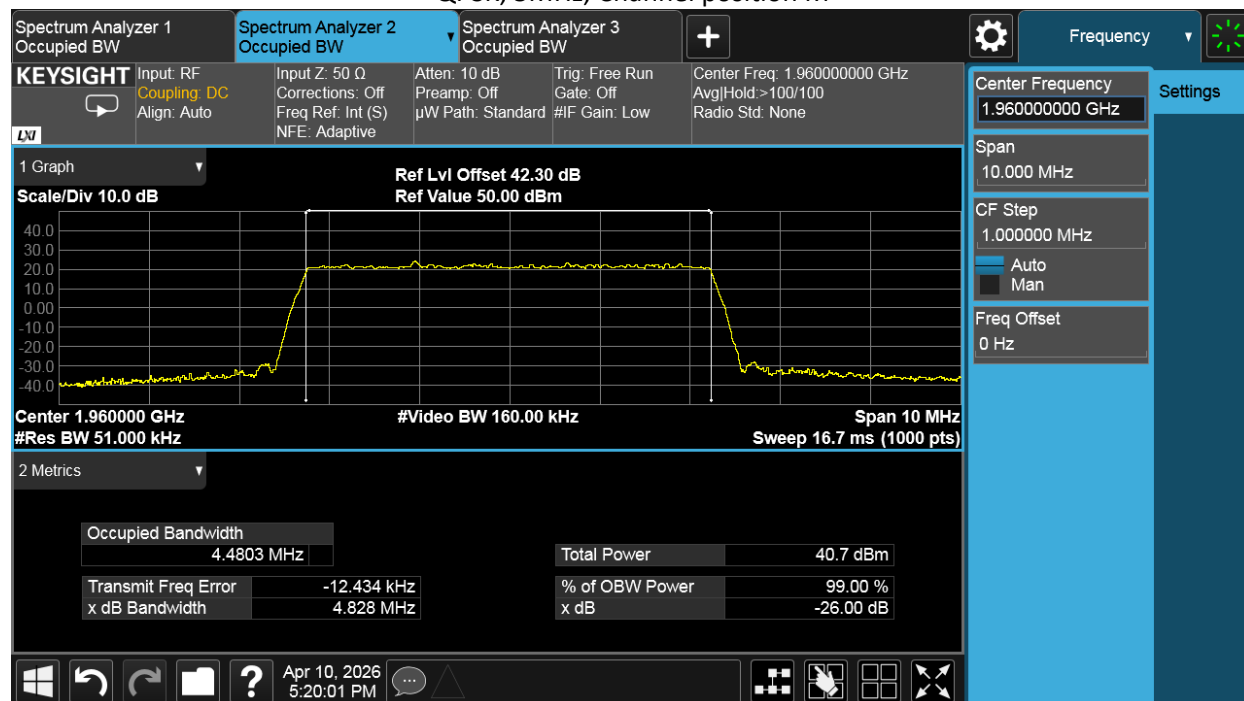
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
1	QPSK	5MHz	-	4.480	4.479
1	QPSK	10MHz	-	8.974	8.975
1	QPSK	15MHz	-	13.453	13.451
1	QPSK	20MHz	-	17.889	17.896

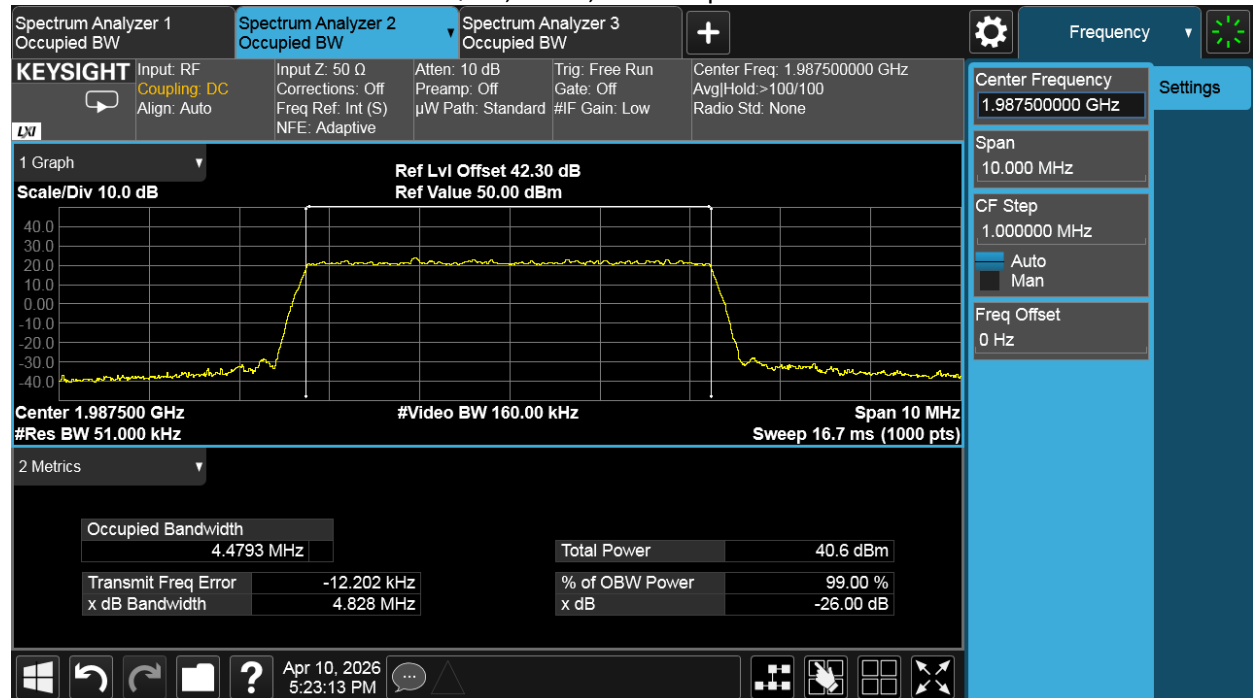
-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
1	QPSK	5MHz	-	4.83	4.83
1	QPSK	10MHz	-	9.63	9.64
1	QPSK	15MHz	-	14.46	14.46
1	QPSK	20MHz	-	18.96	18.97

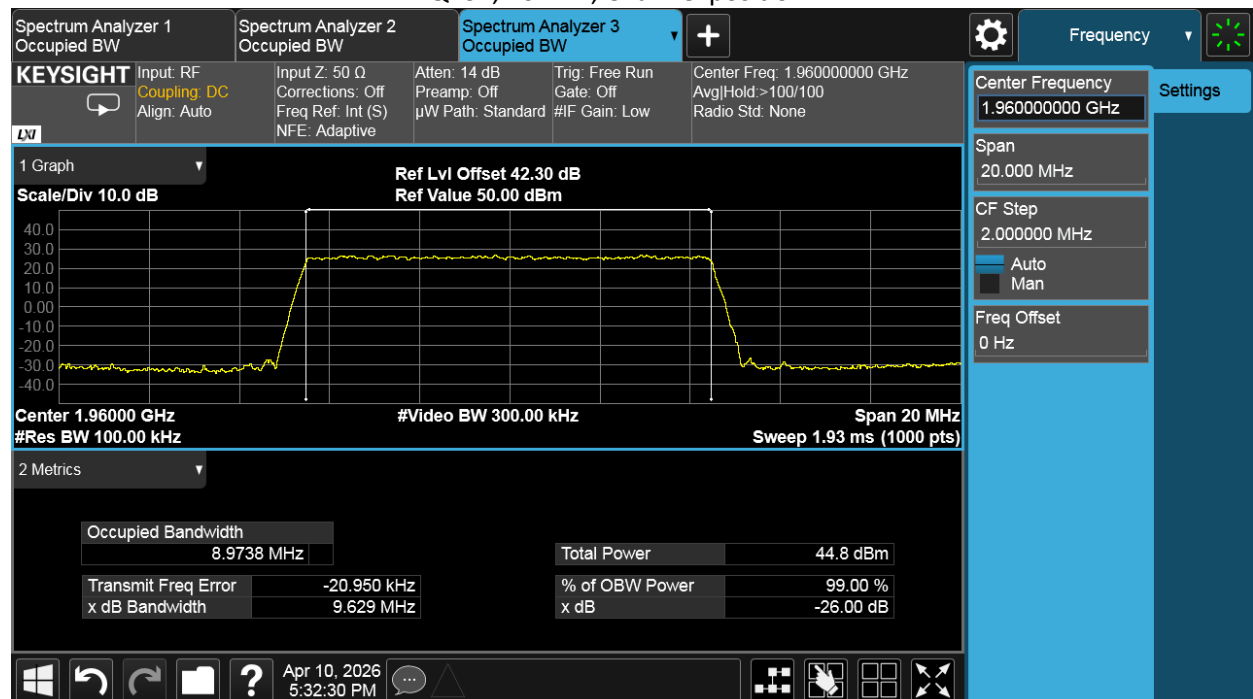
QPSK, 5MHz, Channel position M



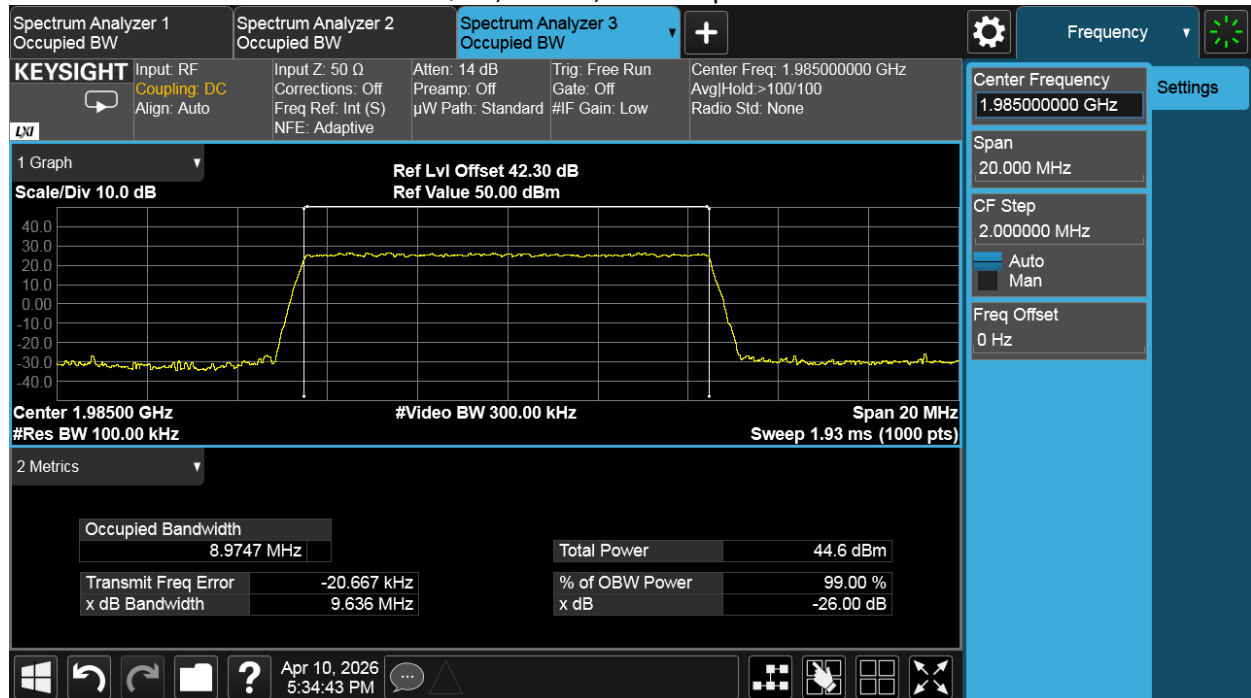
QPSK, 5MHz, Channel position T



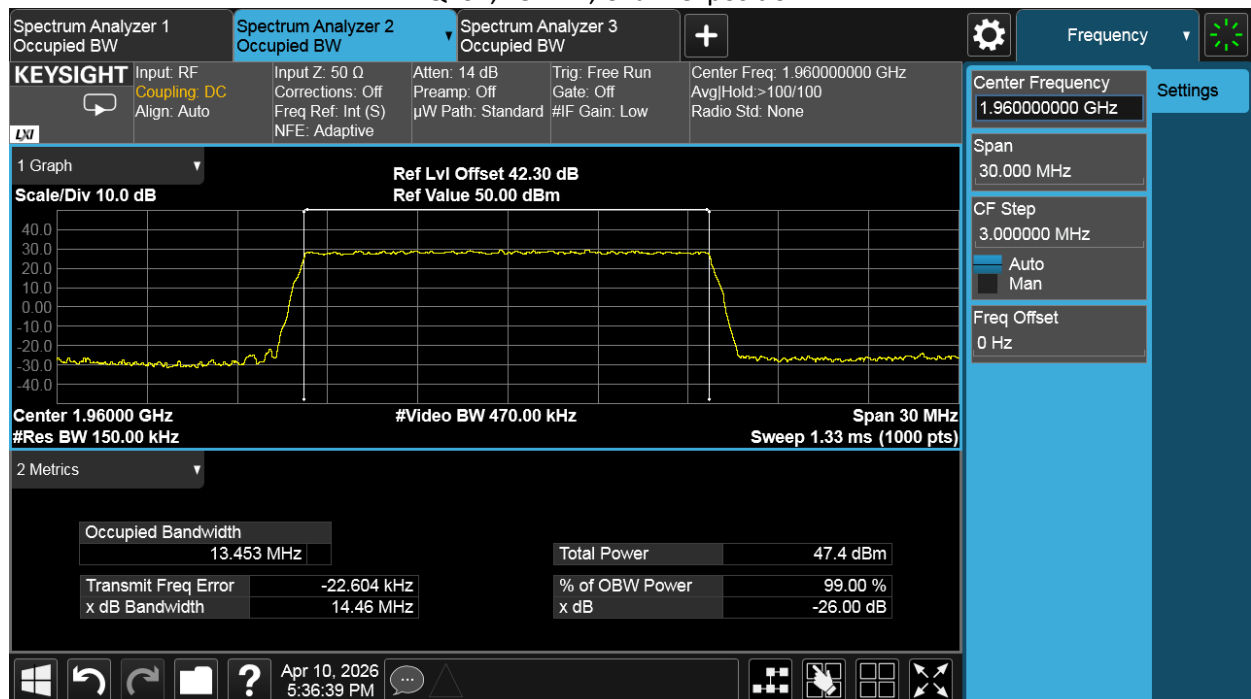
QPSK, 10MHz, Channel position M



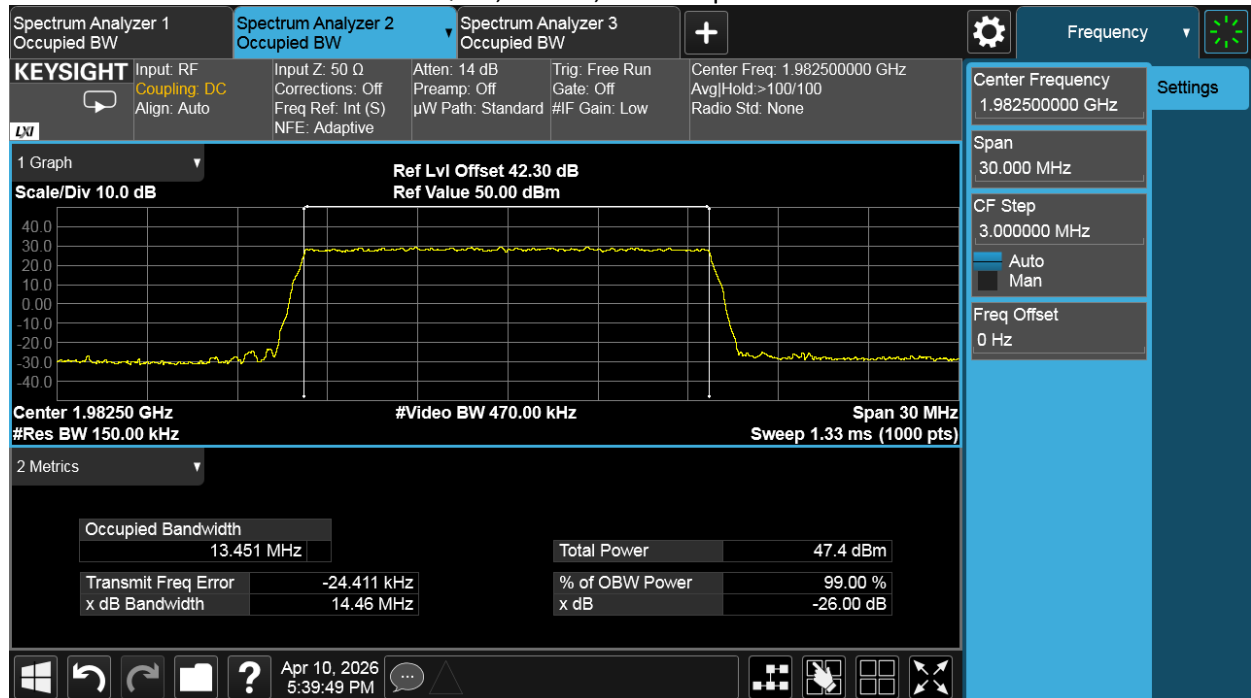
QPSK, 10MHz, Channel position T



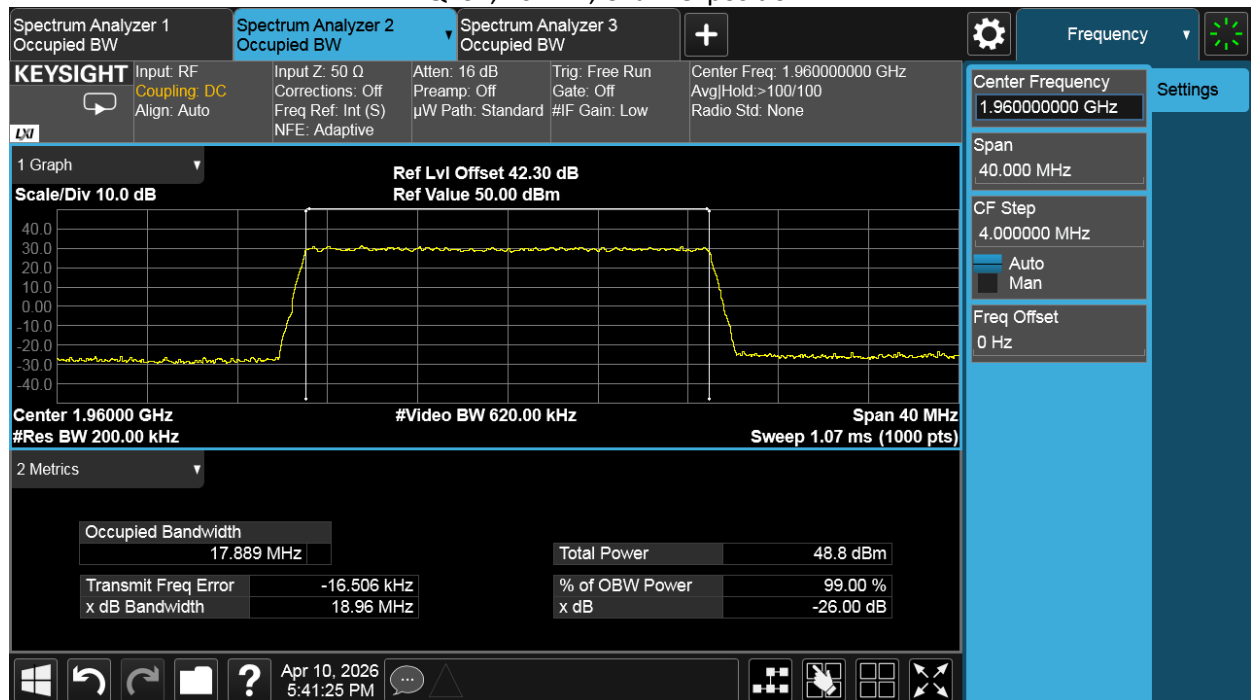
QPSK, 15MHz, Channel position M



QPSK, 15MHz, Channel position T

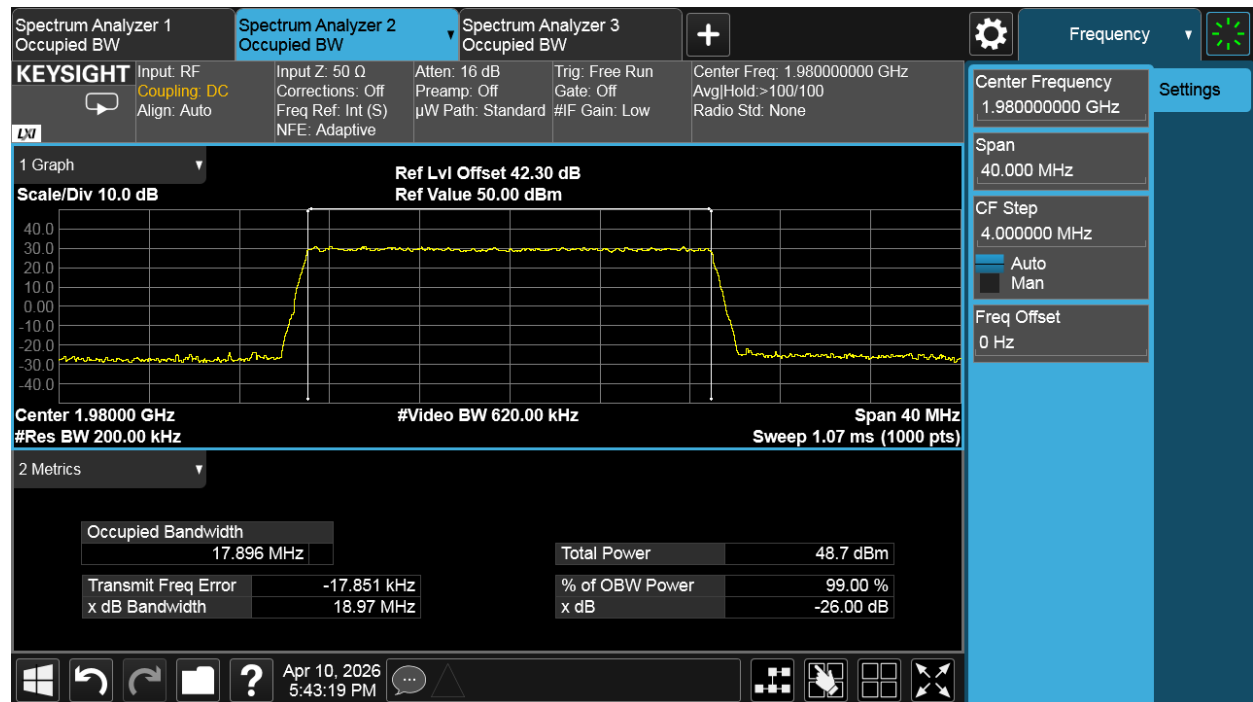


QPSK, 20MHz, Channel position M



QPSK, 20MHz, Channel position T

TEST REPORT



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99% Occupied Bandwidth

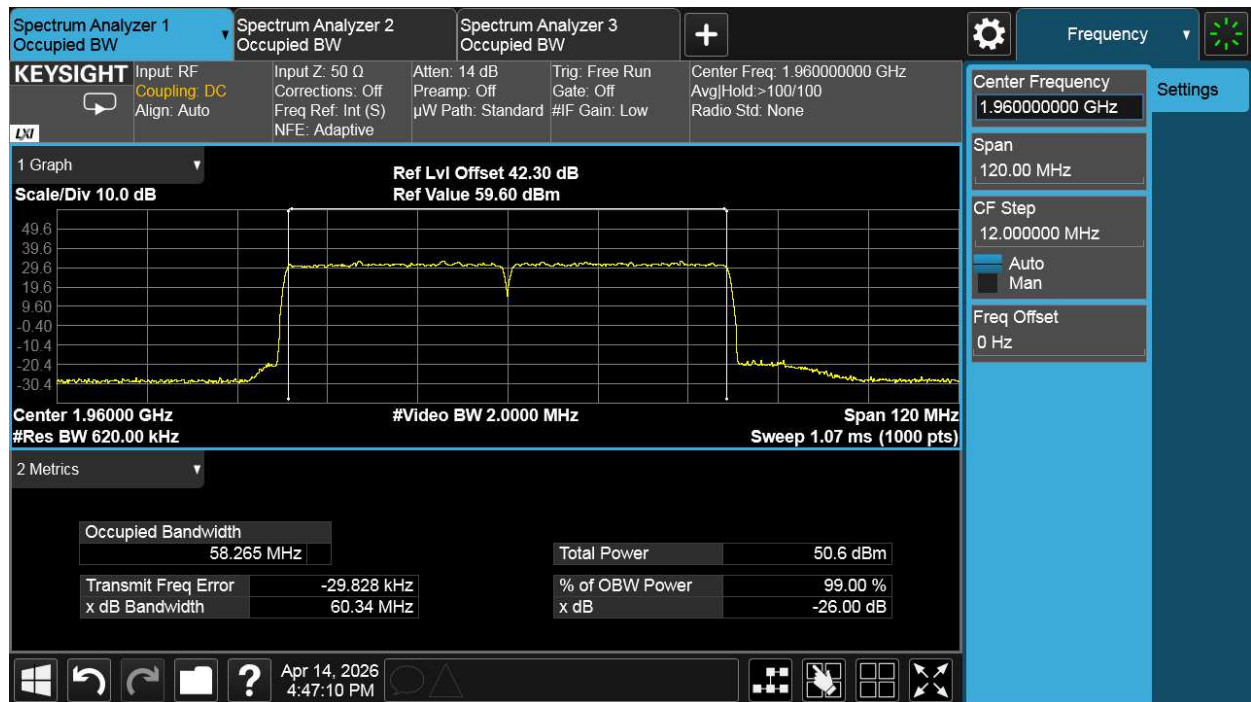
Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
1	QPSK	30MHz	58.265	58.260	58.263

-26dBc Occupied Bandwidth

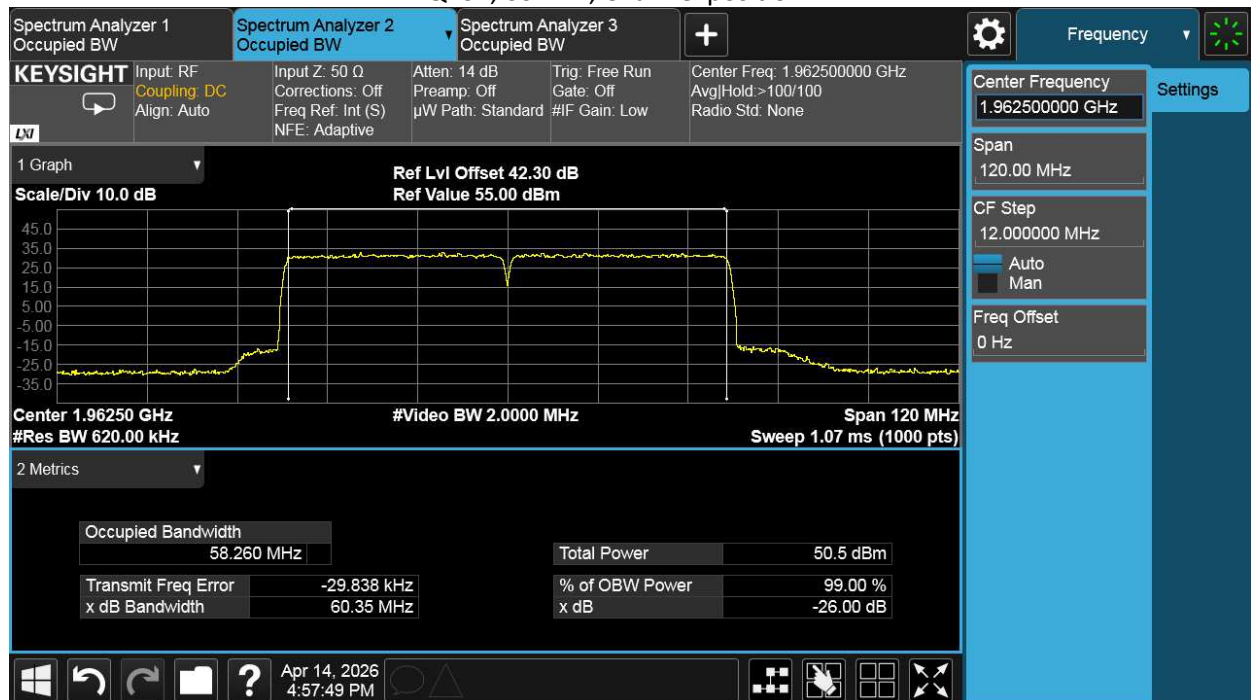
Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
1	QPSK	30MHz	60.34	60.35	60.35

QPSK, 60MHz, Channel position B

TEST REPORT

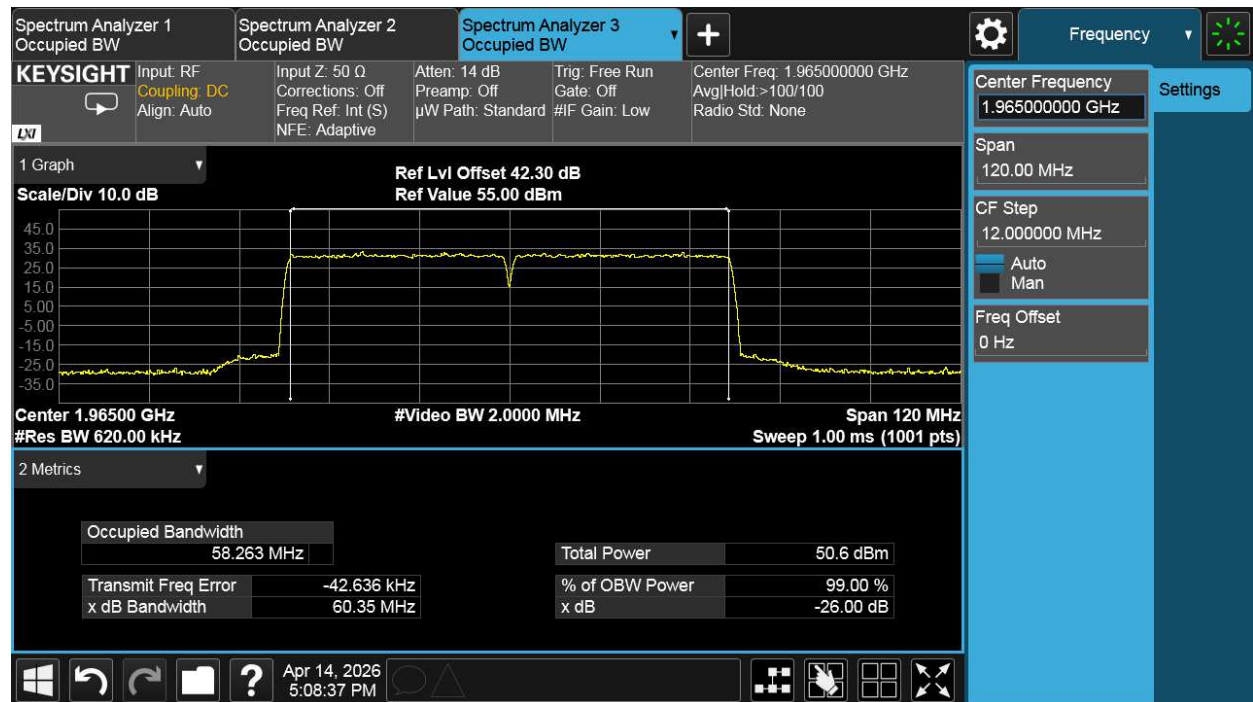


QPSK, 60MHz, Channel position M



QPSK, 60MHz, Channel position T

TEST REPORT



NR-3CC-B25

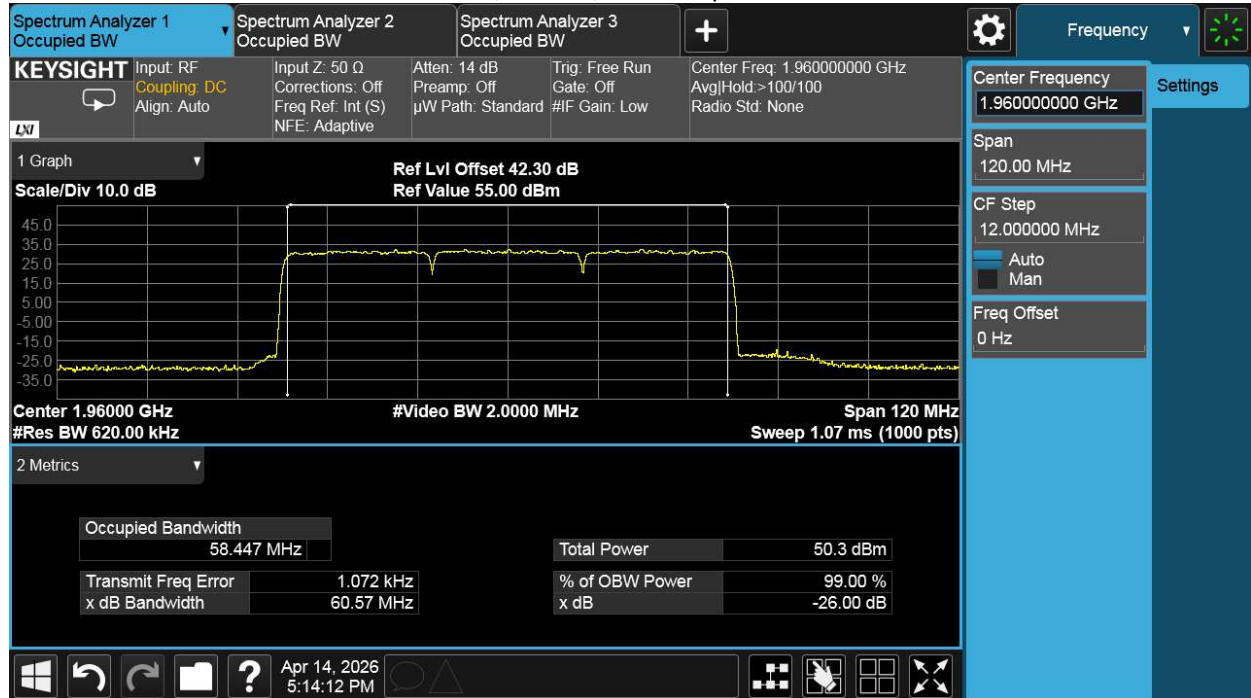
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
1	QPSK	20MHz	58.447	58.475	58.487

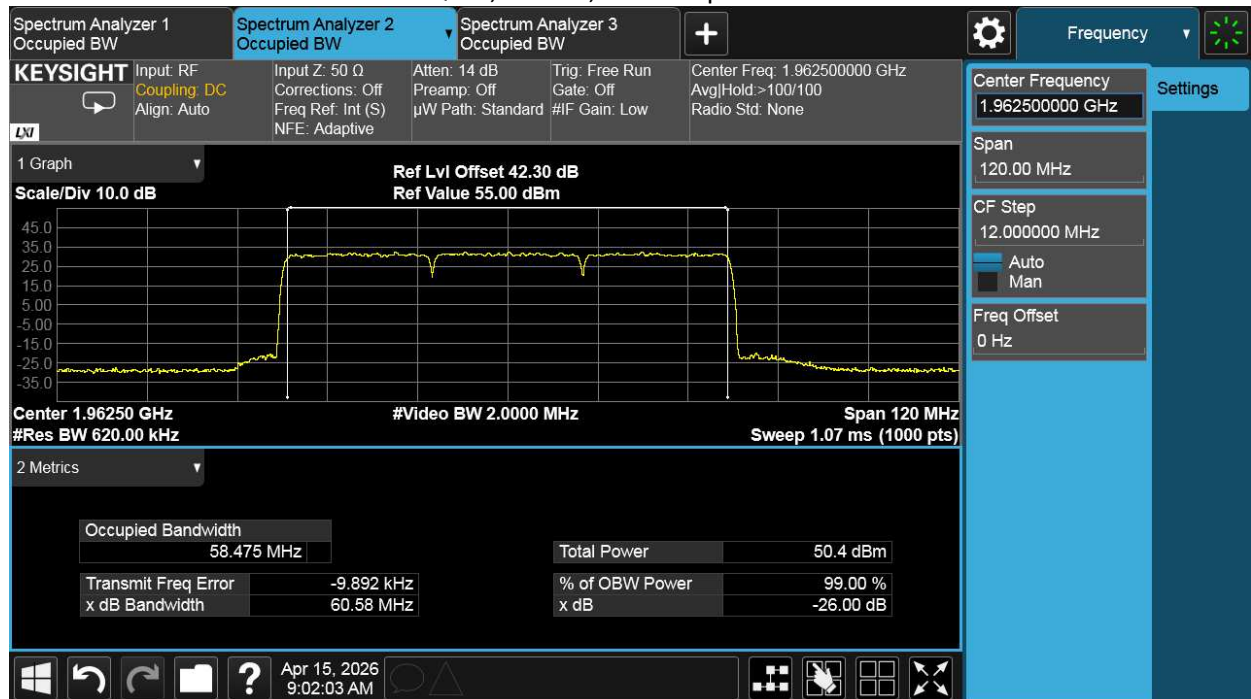
-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
1	QPSK	20MHz	60.57	60.58	60.56

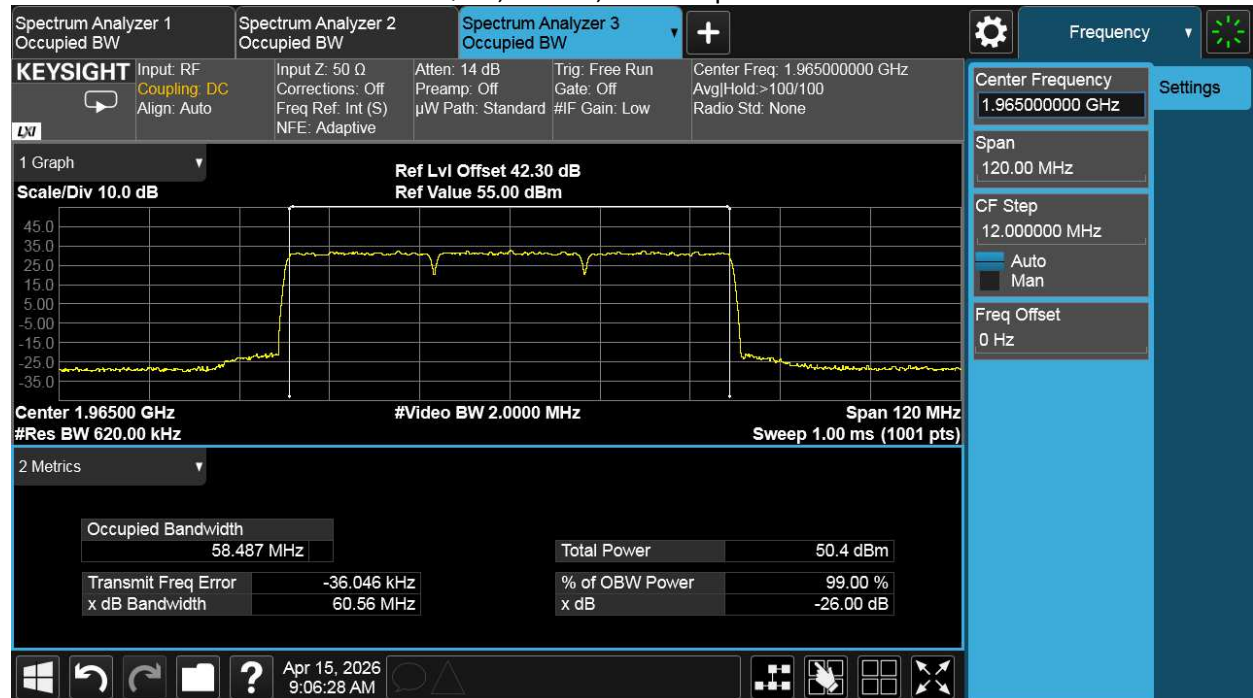
QPSK, 60MHz, Channel position B



QPSK, 60MHz, Channel position M



QPSK, 60MHz, Channel position T



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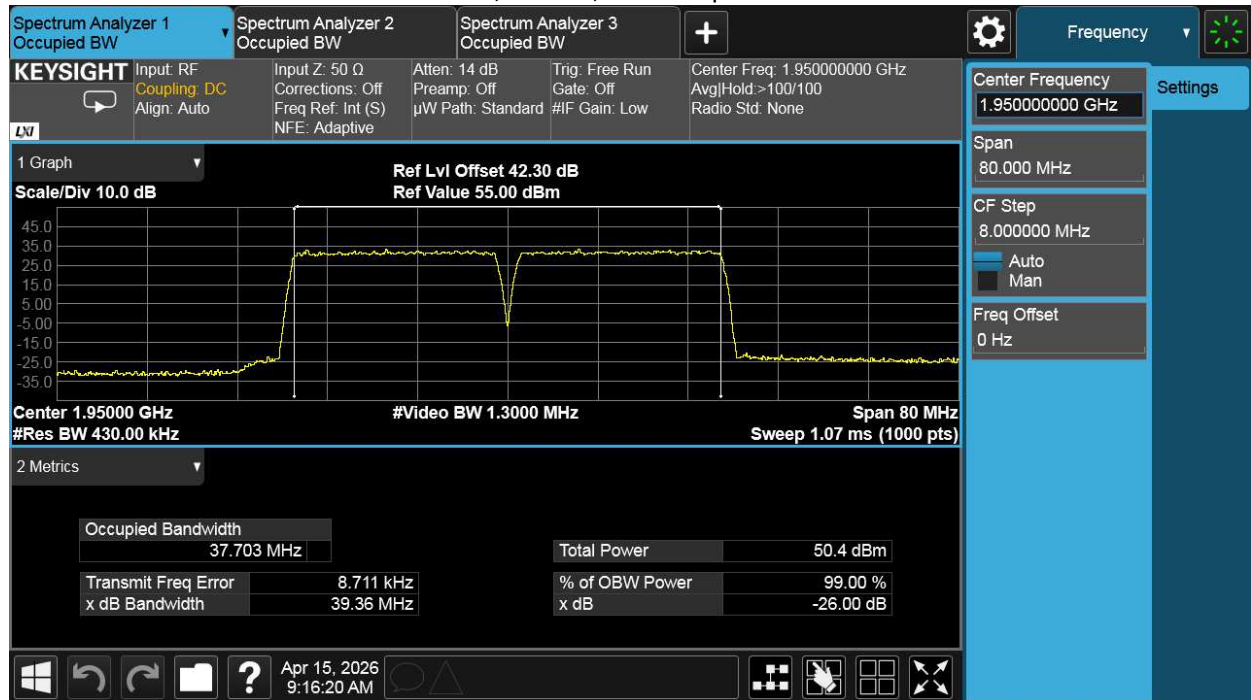
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
1	QPSK	20MHz	37.703	37.749	37.752

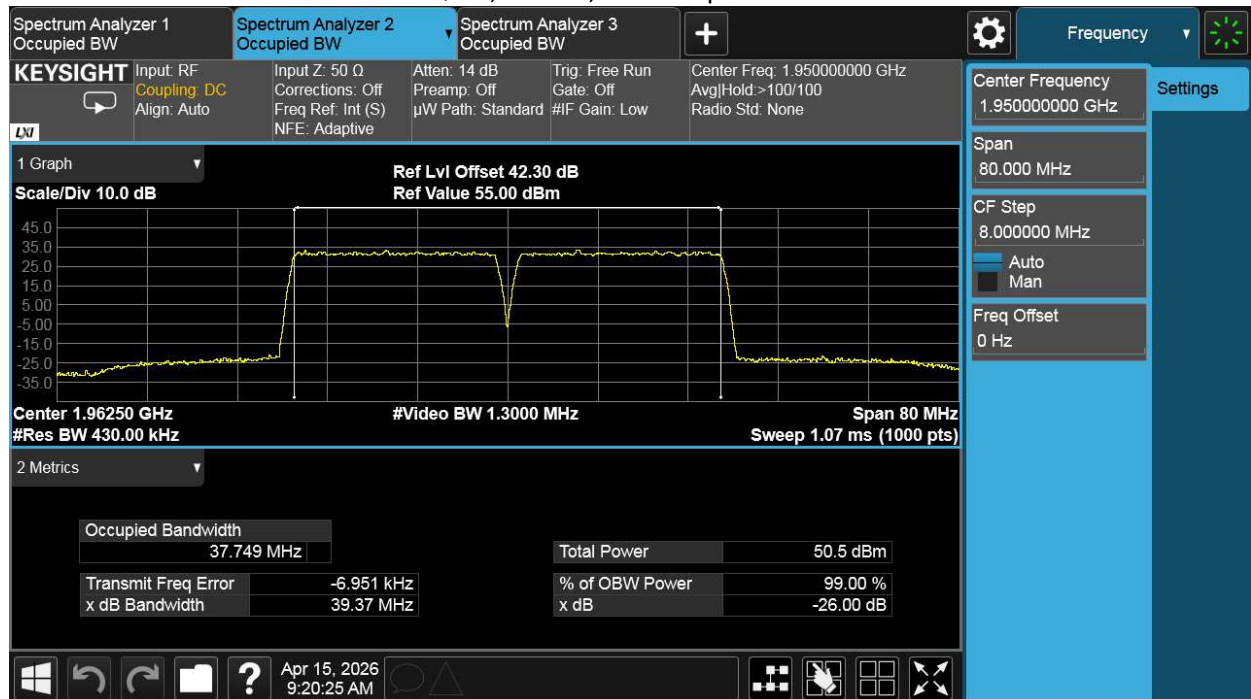
-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
1	QPSK	20MHz	39.36	39.37	39.37

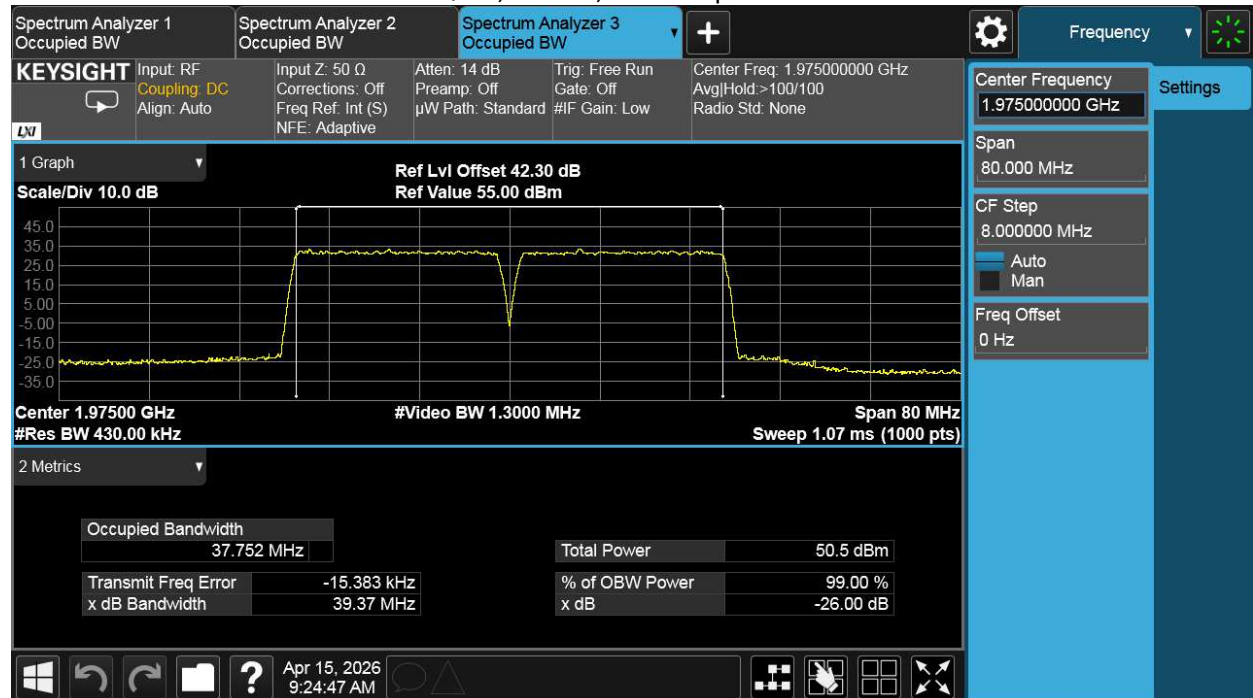
QPSK, 60MHz, Channel position B



QPSK, 60MHz, Channel position M



QPSK, 60MHz, Channel position T



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99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
1	QPSK	20MHz	57.527	57.859	57.558

-26dBc Occupied Bandwidth

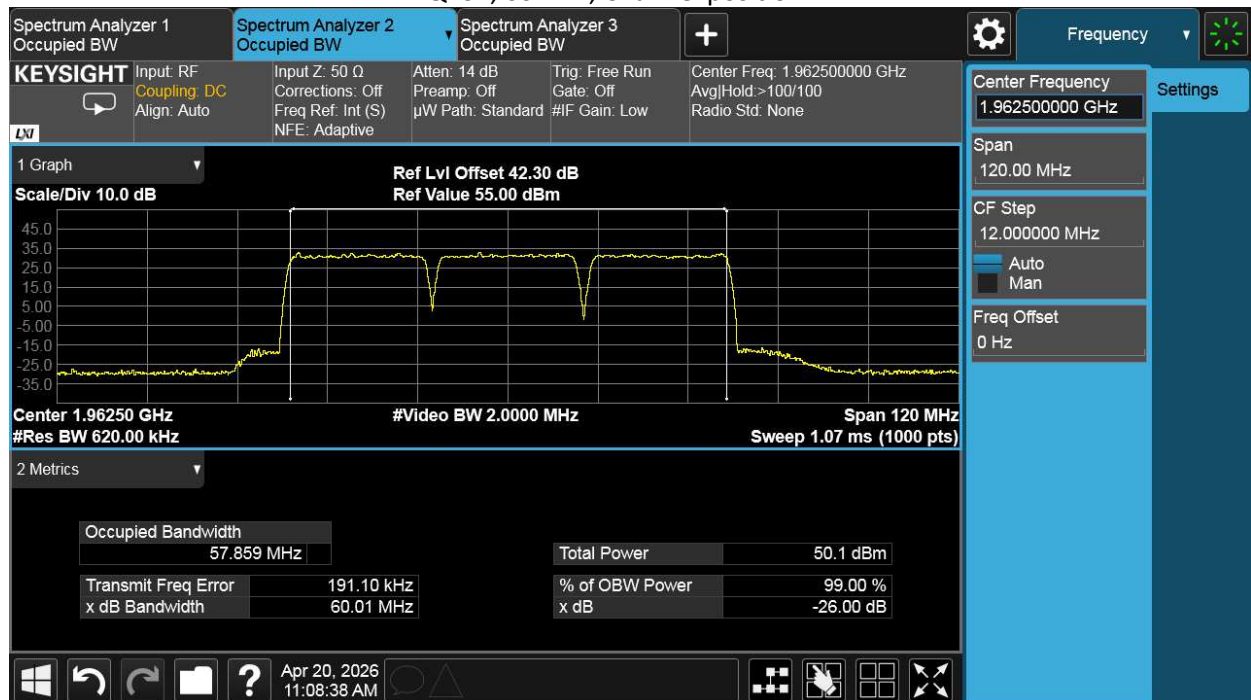
Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
1	QPSK	20MHz	59.67	60.01	59.66

QPSK, 60MHz, Channel position B

TEST REPORT

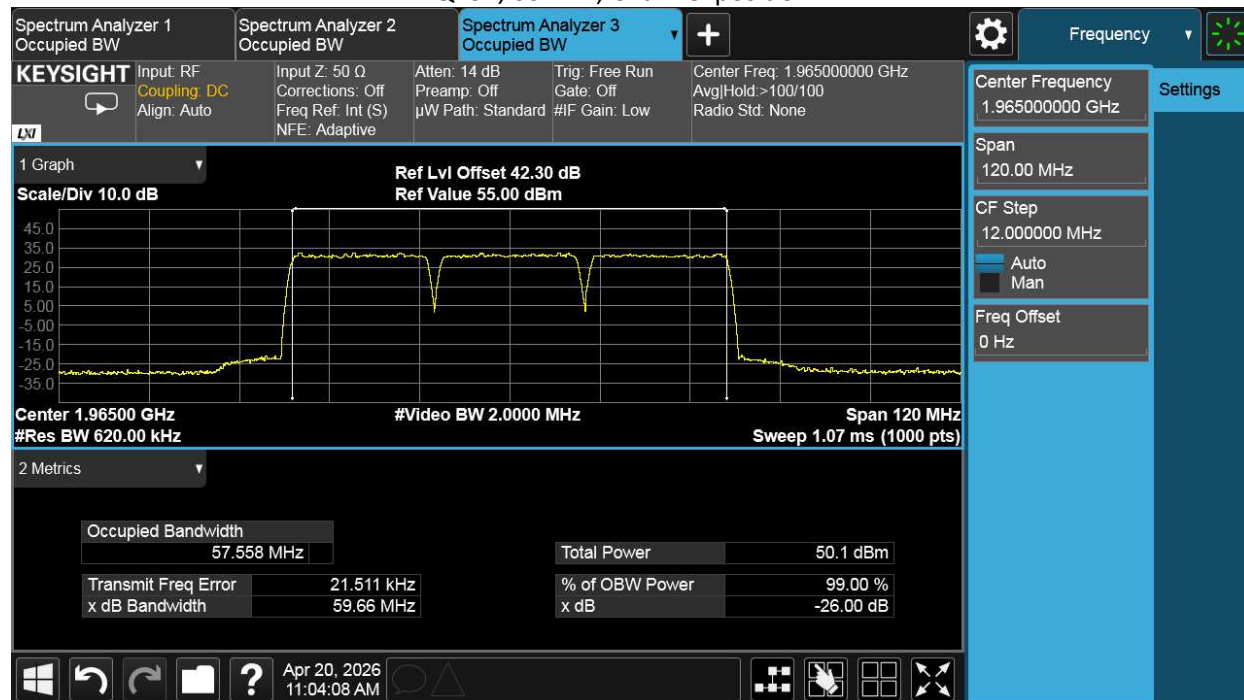


QPSK, 60MHz, Channel position M



TEST REPORT

QPSK, 60MHz, Channel position T



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99% Occupied Bandwidth

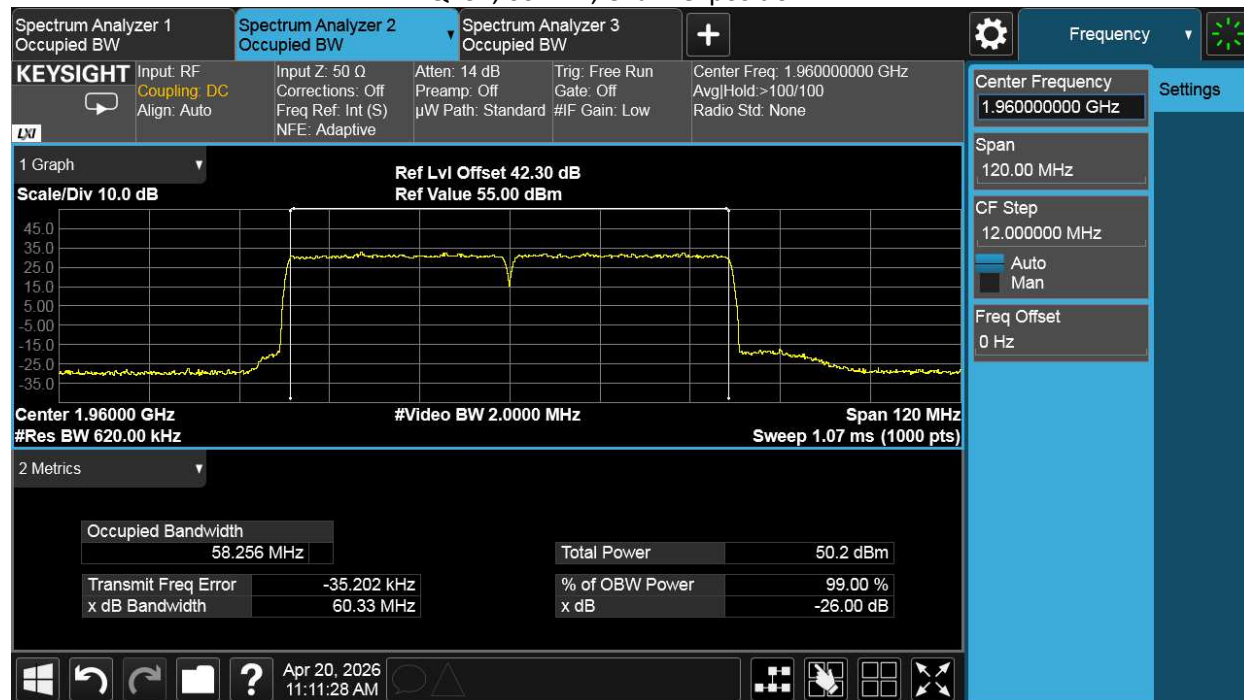
Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
1	QPSK	30MHz	-	58.256	-

-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
1	QPSK	30MHz	-	60.33	-

TEST REPORT

QPSK, 60MHz, Channel position M



NR-3CC-B2

99% Occupied Bandwidth

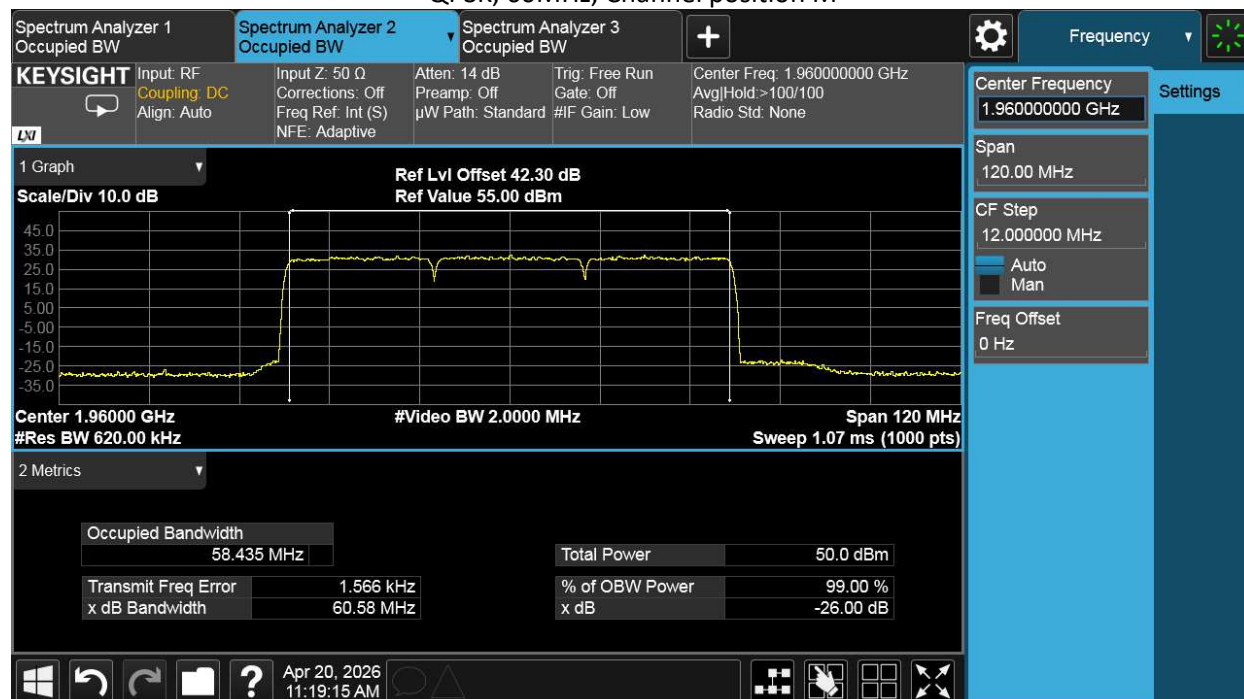
Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
1	QPSK	20MHz	-	58.435	-

-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
1	QPSK	20MHz	-	60.58	-

TEST REPORT

QPSK, 60MHz, Channel position M



LTE-2CC-B2

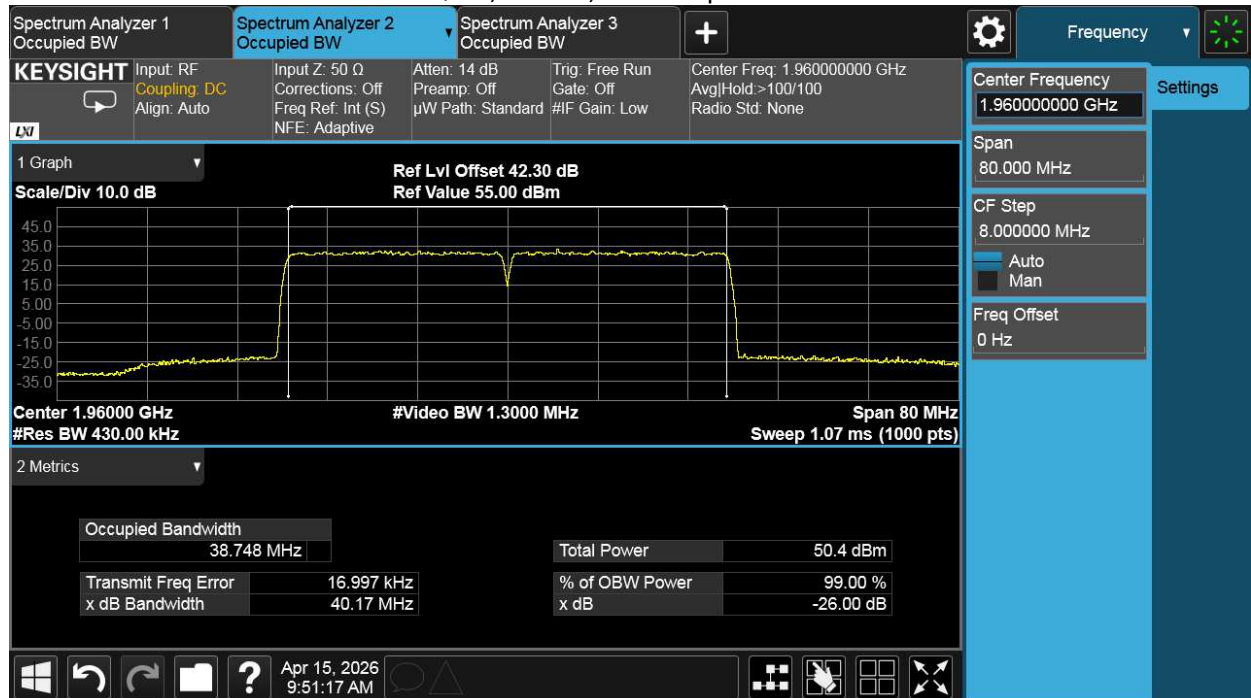
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
1	QPSK	20MHz	-	38.748	38.779

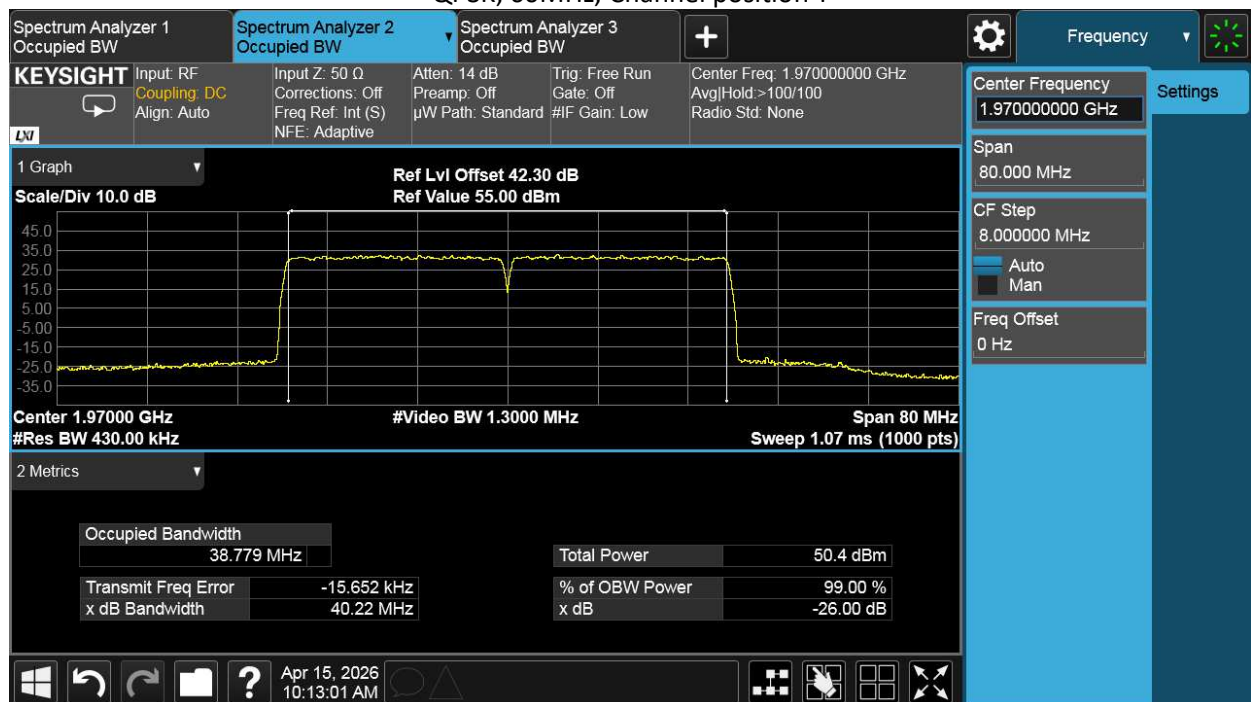
-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
1	QPSK	30MHz	-	40.17	40.22

QPSK, 60MHz, Channel position M



QPSK, 60MHz, Channel position T



LTE-3CC-B2

TEST REPORT

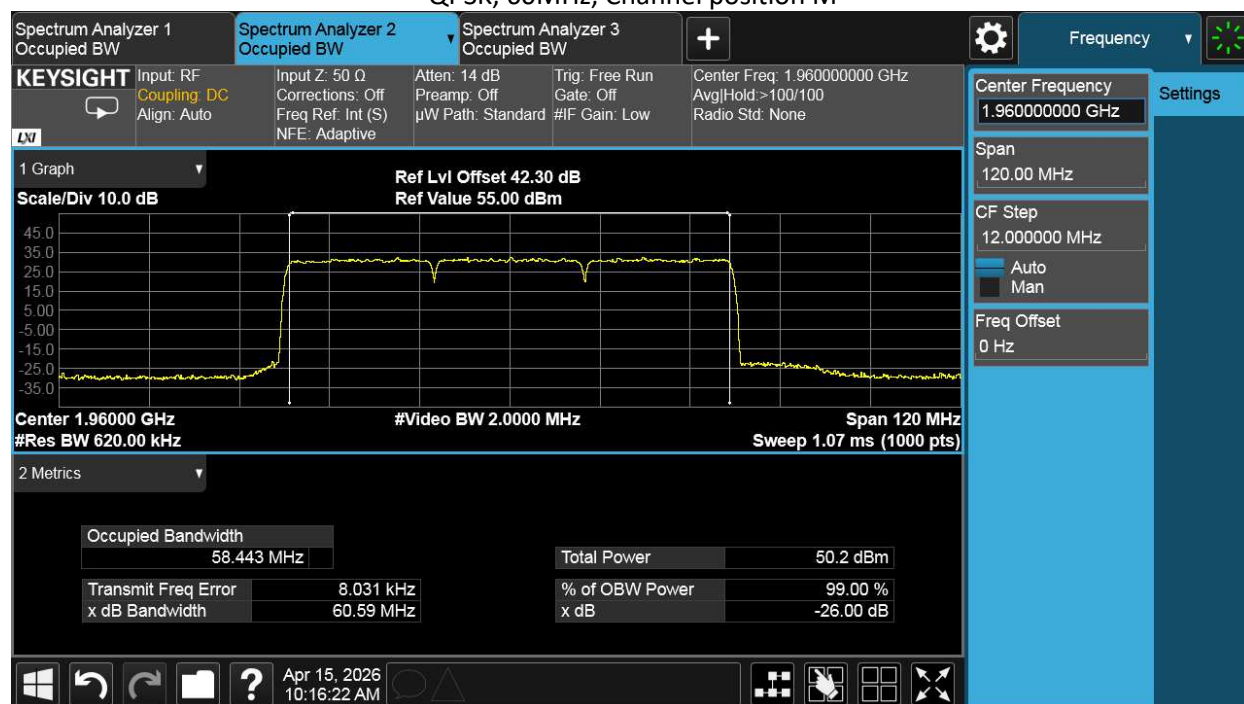
99% Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
1	QPSK	20MHz	-	58.443	-

-26dBc Occupied Bandwidth

Antenna Port	Modulation	Bandwidth	Occupied Bandwidth (MHz)		
			Channel Position B	Channel Position M	Channel Position T
1	QPSK	20MHz	-	60.59	-

QPSK, 60MHz, Channel position M



5 Unwanted Emissions at Band Edge

Test result: Pass

5.1 Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

5.2 Measurement Procedure

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

For MIMO mode configurations, the limit was adjusted with a correction of -15.05dB [$10\log(1/32)$] by using the Measure and Add $10\log(N)$ dB technique according to KDB 662911 D01 Multiple Transmitter Output accounting for simultaneous transmission from antenna ports. Then the limit was adjusted to -28.05dBm.

In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed and a RBW of 1MHz for measurements of emissions > 1MHz away from the band edges.

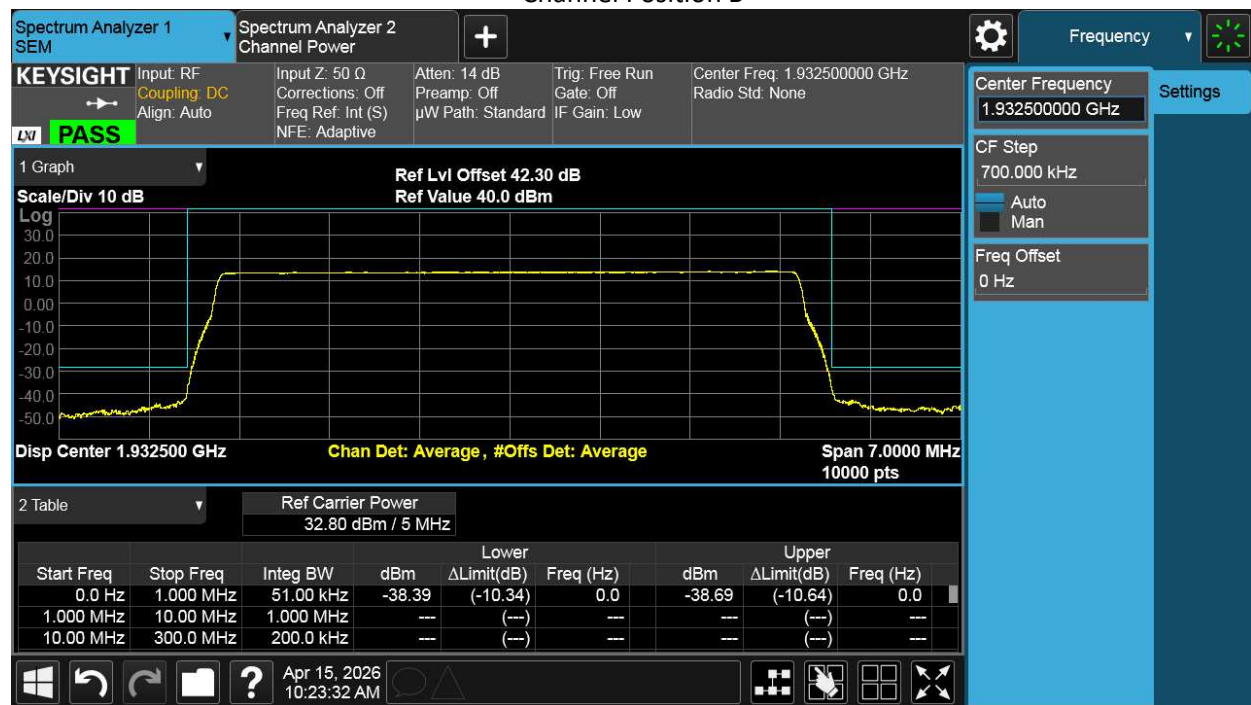
Spectrum analyzer detector was set as RMS.

5.3 Measurement result

NR-1C-B25-UE

Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
1	B	QPSK	5	51	-28.05
1	T	QPSK	5	51	-28.05

Channel Position B



Channel Position T

TEST REPORT



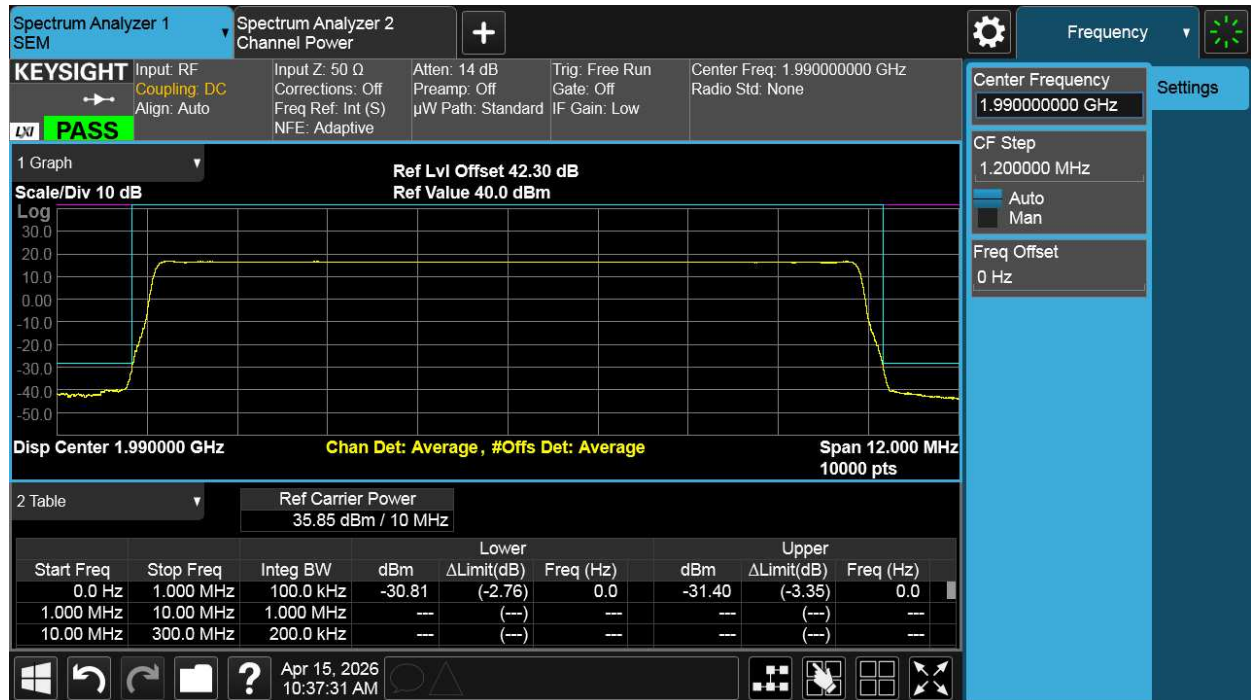
Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
1	B	QPSK	10	100	-28.05
1	T	QPSK	10	100	-28.05

Channel Position B



Channel Position T

TEST REPORT



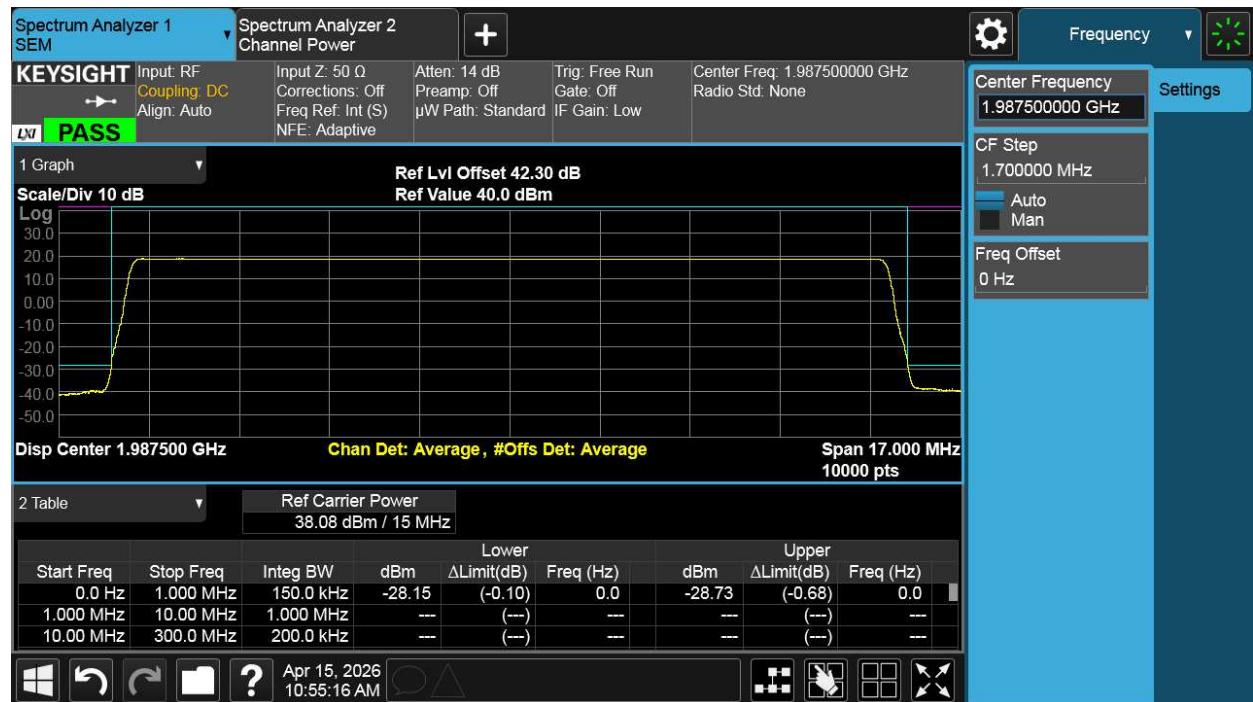
Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
1	B	QPSK	15	15	-28.05
1	T	QPSK	15	150	-28.05

Channel Position B



Channel Position T

TEST REPORT

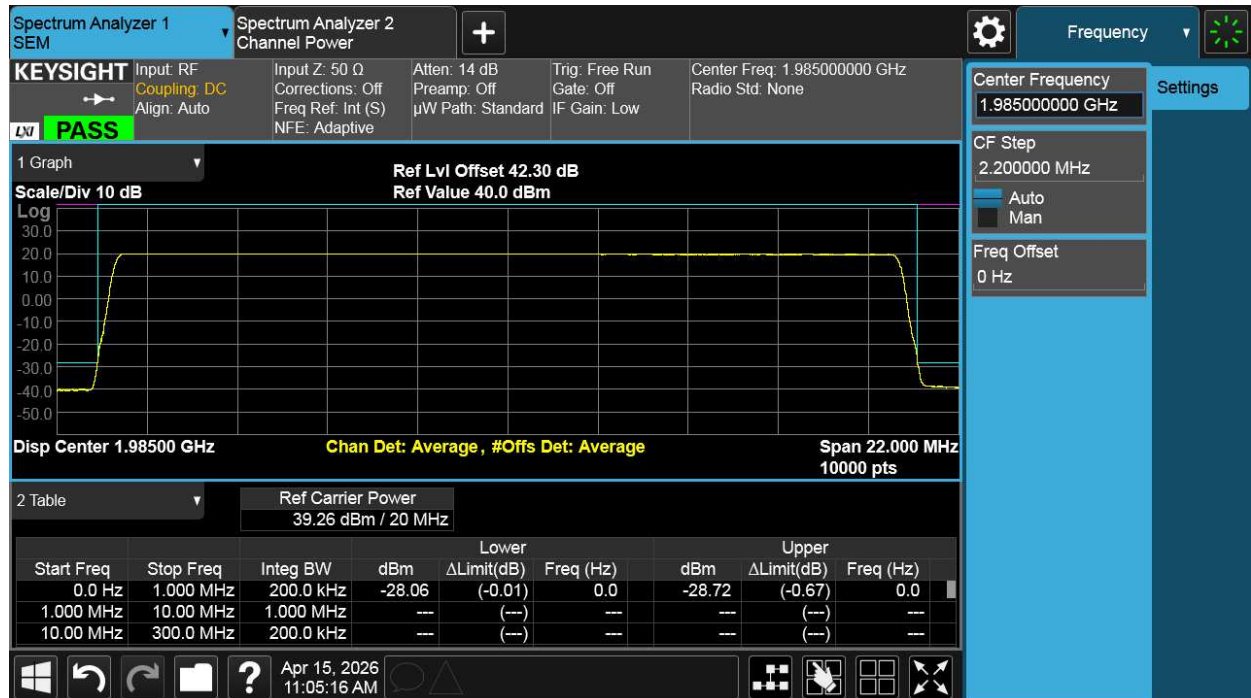


Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
1	B	QPSK	20	200	-28.05
1	T	QPSK	20	200	-28.05

Channel Position B

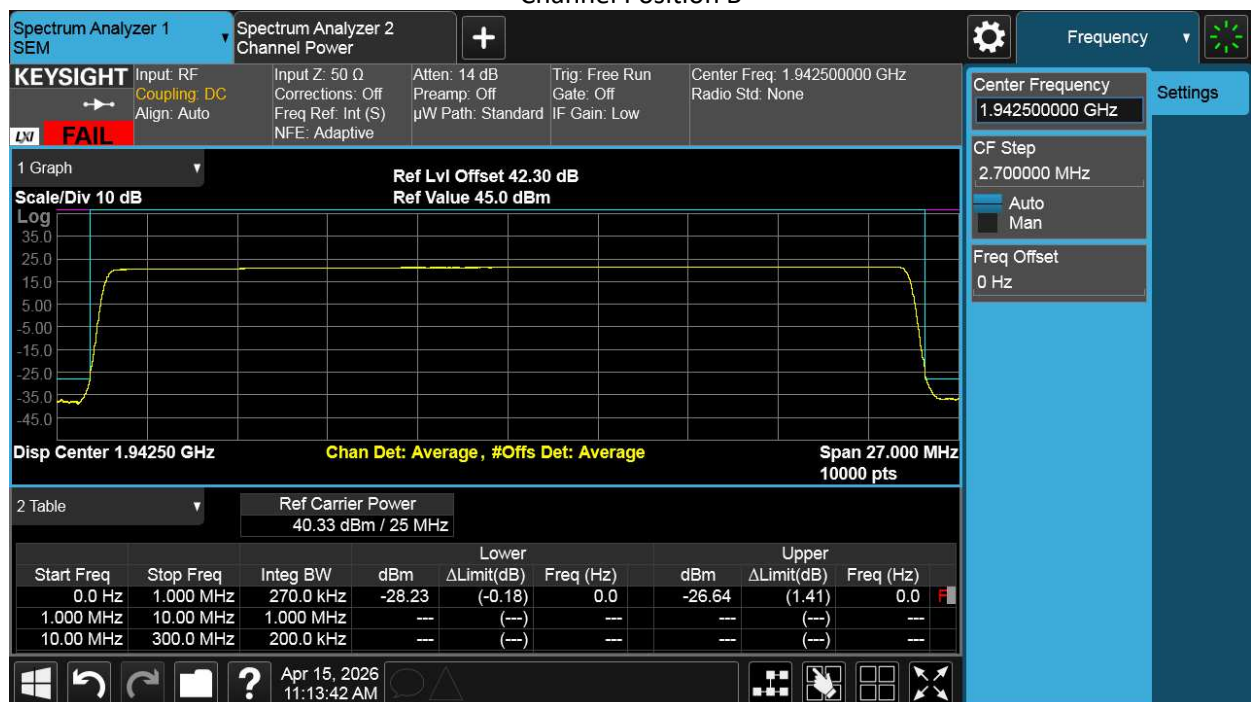


Channel Position T

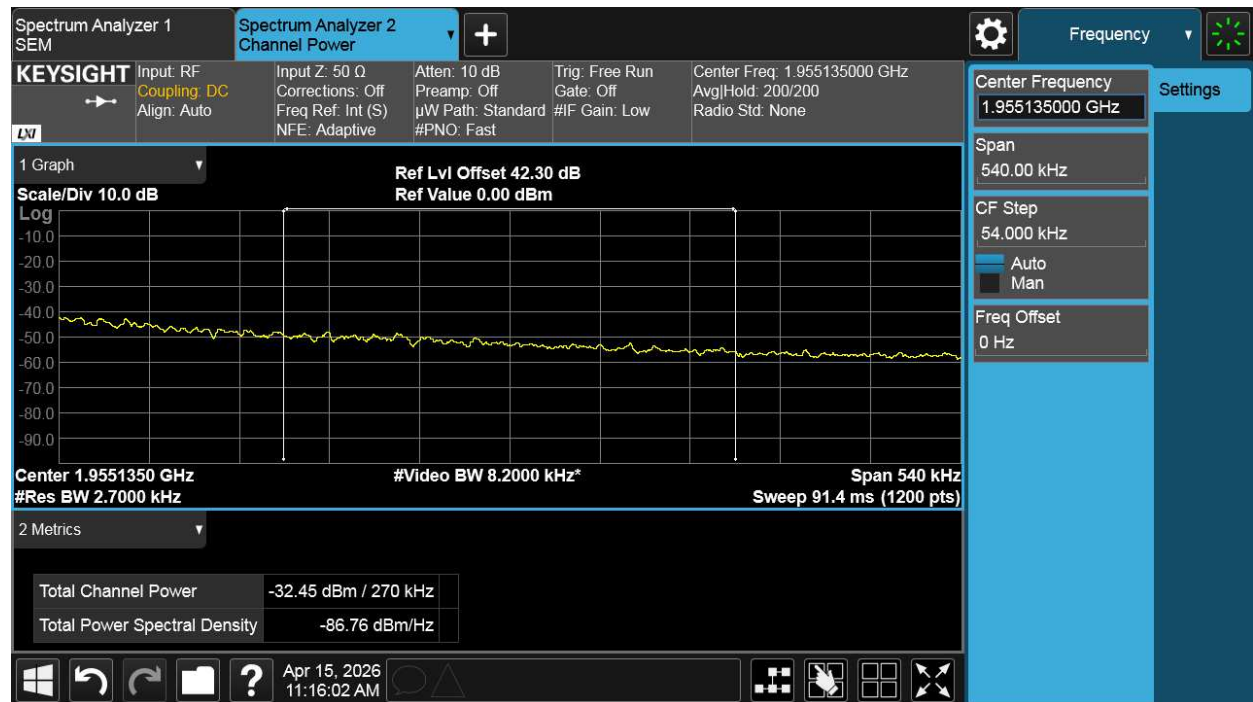


Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
1	B	QPSK	25	270	-28.05
1	T	QPSK	25	270	-28.05

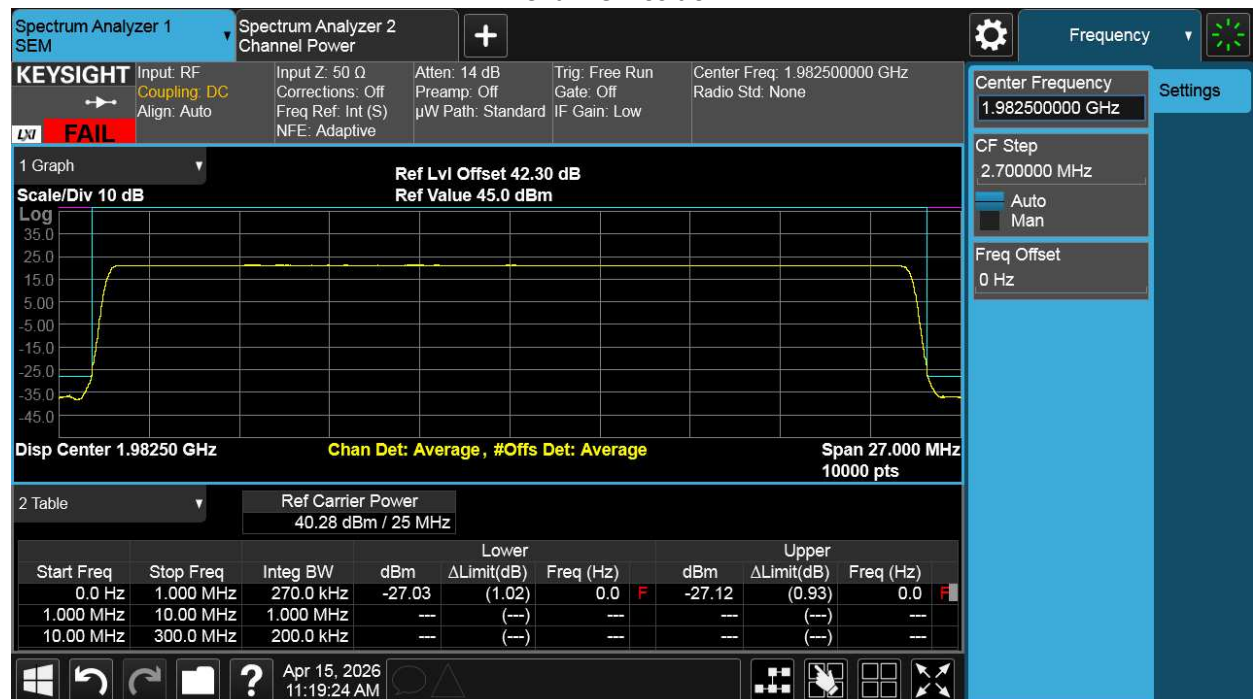
Channel Position B



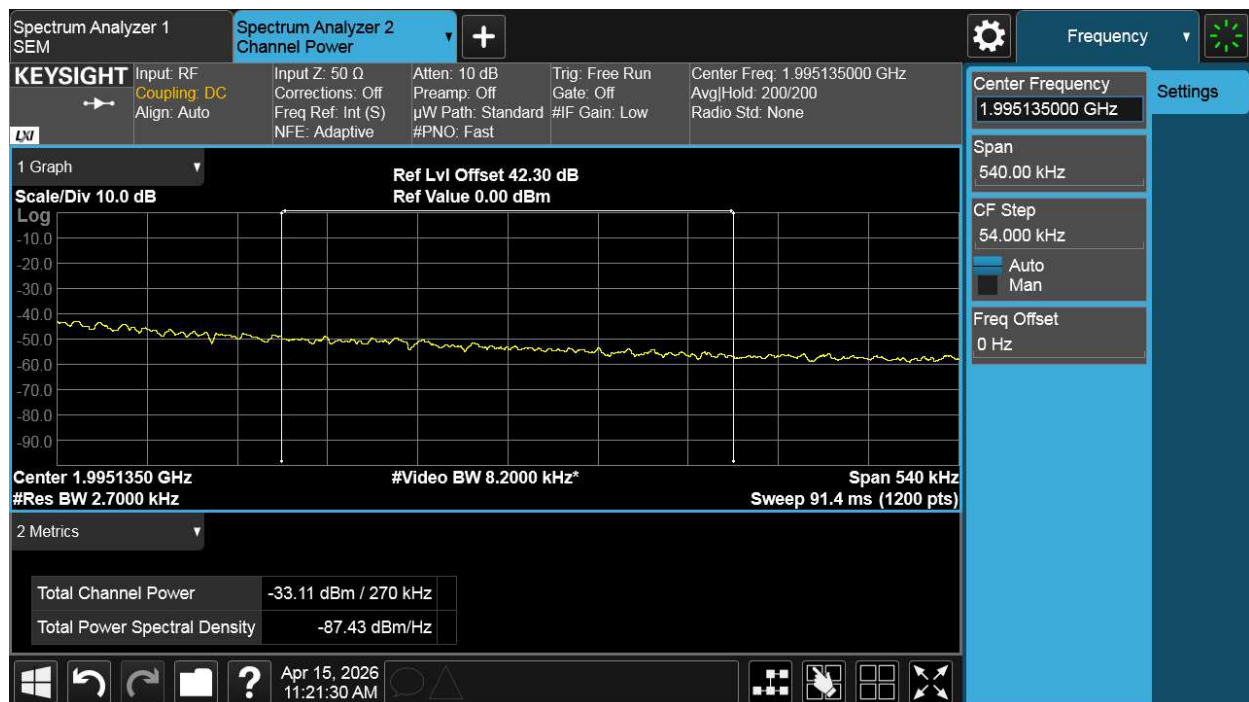
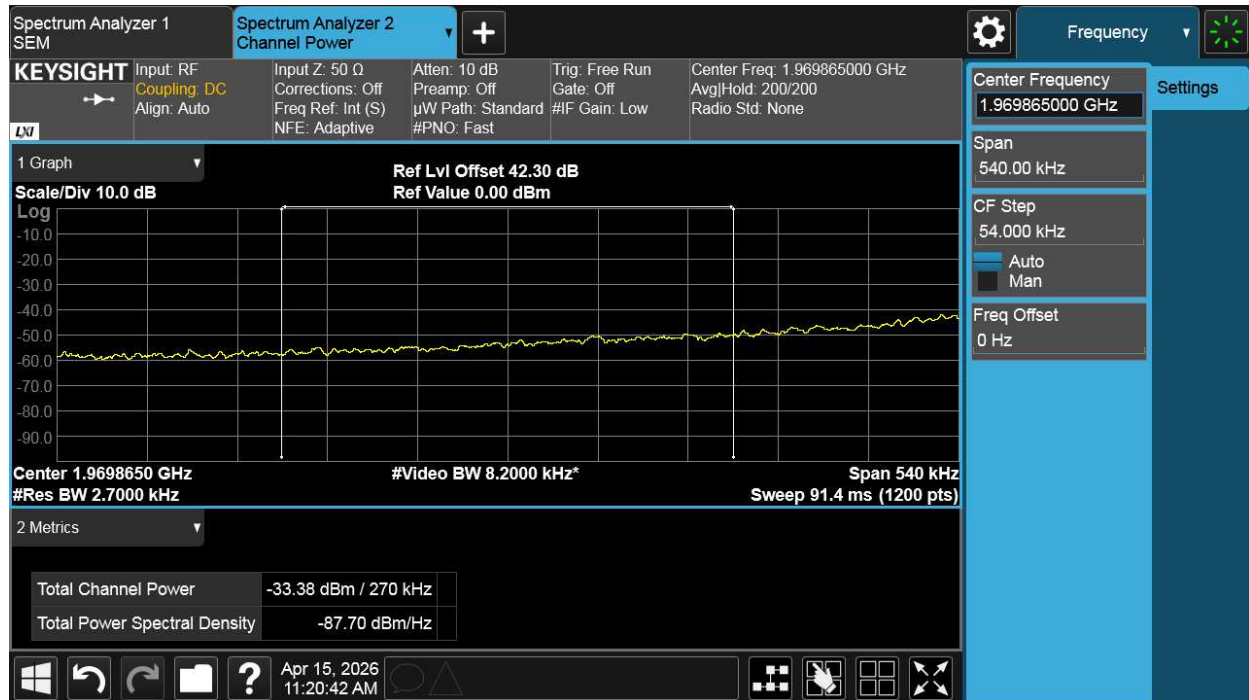
TEST REPORT



Channel Position T



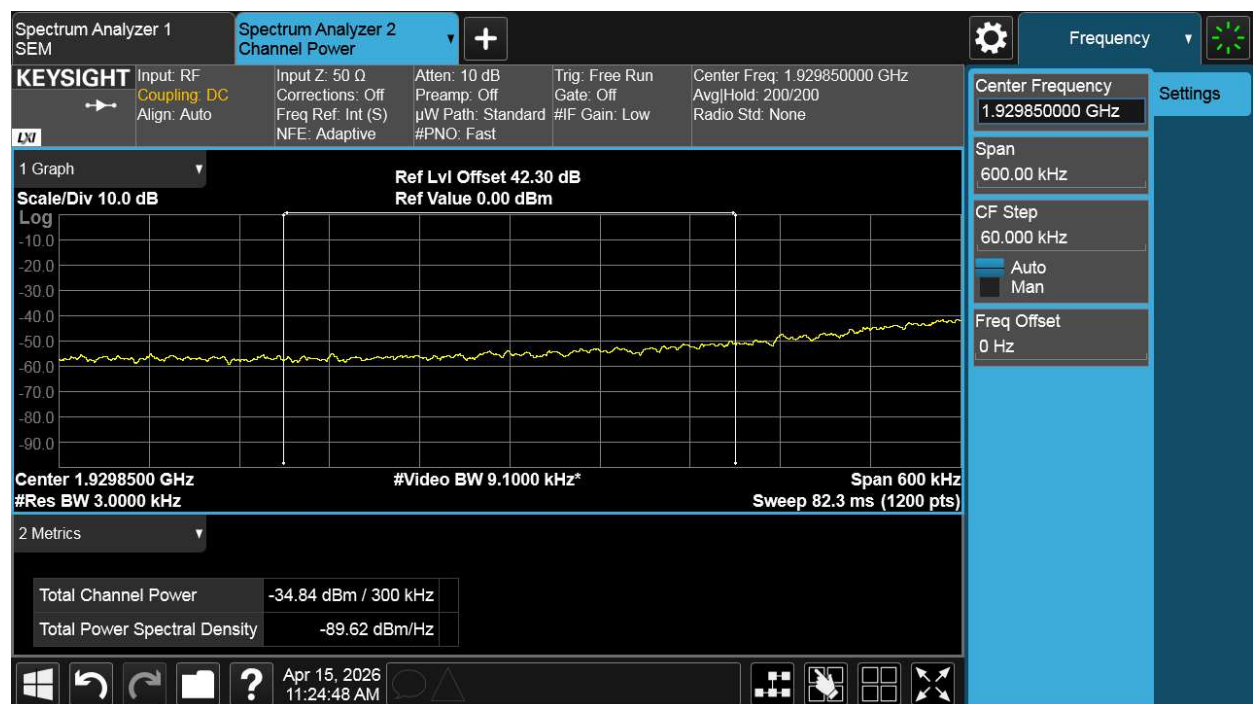
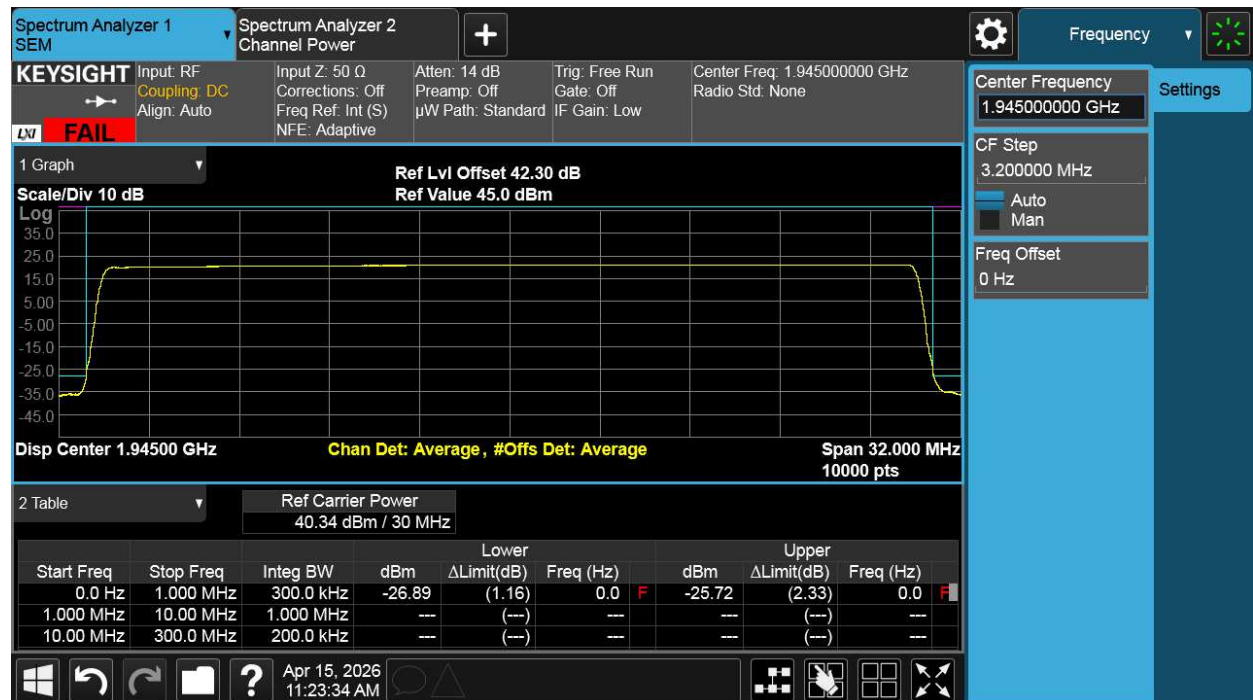
TEST REPORT



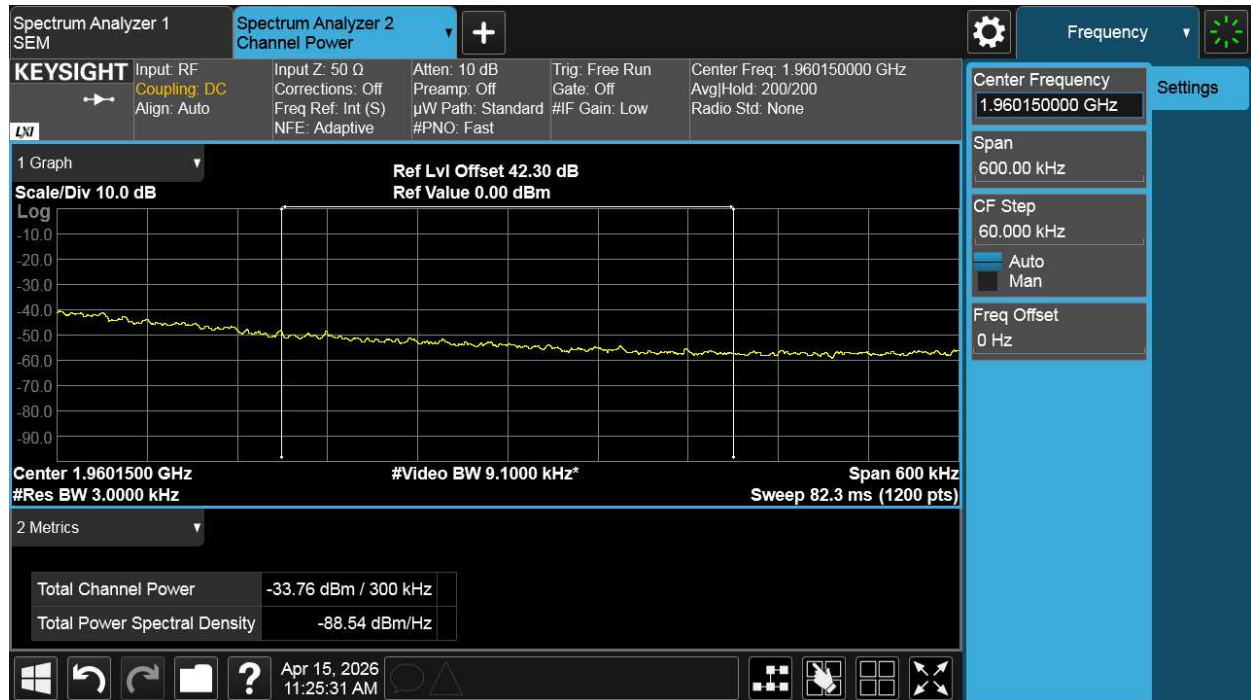
Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
1	B	QPSK	30	300	-28.05
1	T	QPSK	30	300	-28.05

Channel Position B

TEST REPORT



TEST REPORT



Channel Position T



TEST REPORT



Antenna Port	Channel Position	Modulation	Carrier BW (MHz)	RBW (kHz)	Limit (dBm)
1	B	QPSK	35	360	-28.05
1	T	QPSK	35	360	-28.05

Channel Position B

TEST REPORT

