

## 10. ANTENNA PORT TEST RESULTS – AUTHORIZED BAND, FRB

### 10.1. ON TIME AND DUTY CYCLE

#### LIMITS

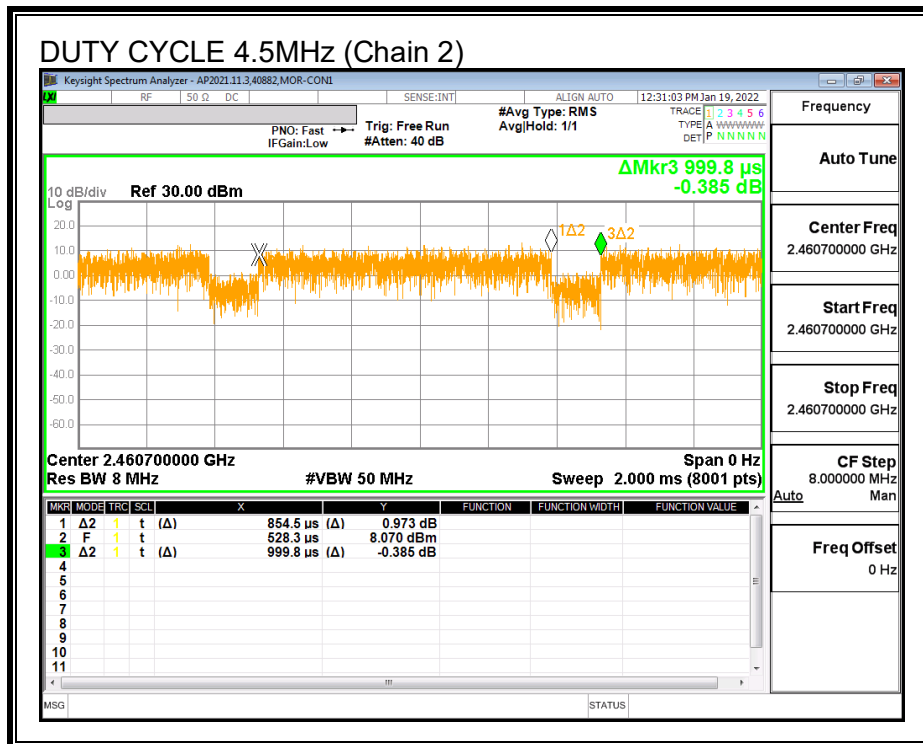
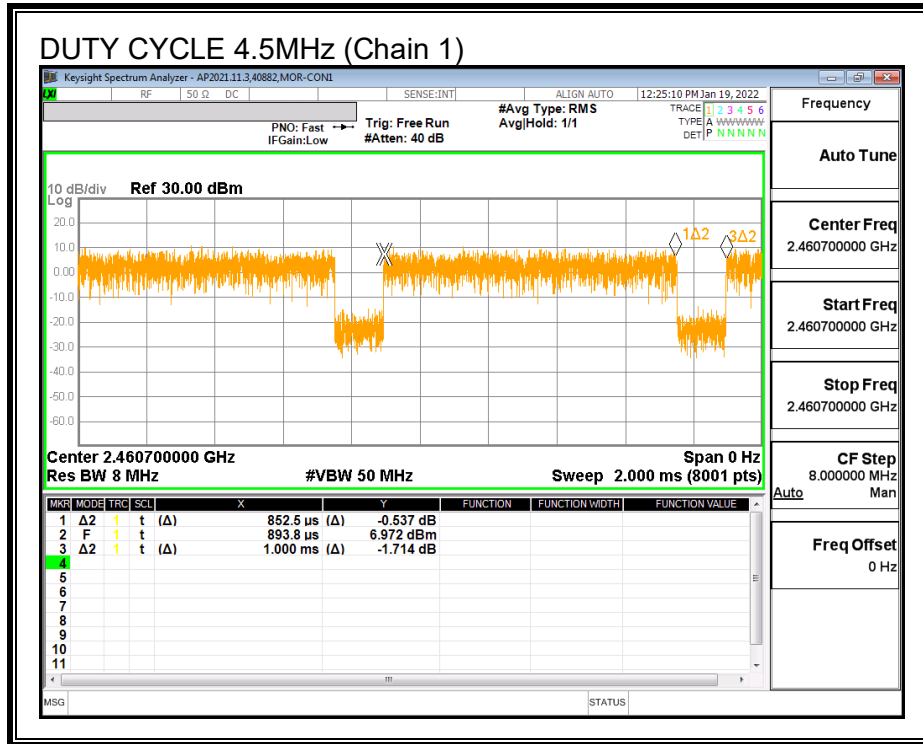
None; for reporting purposes only.

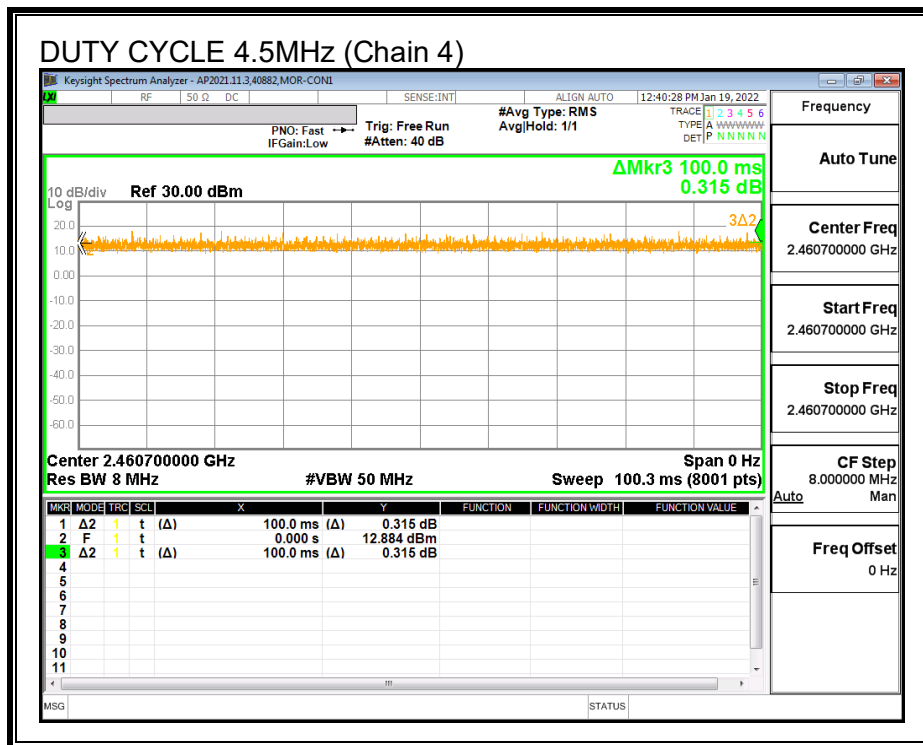
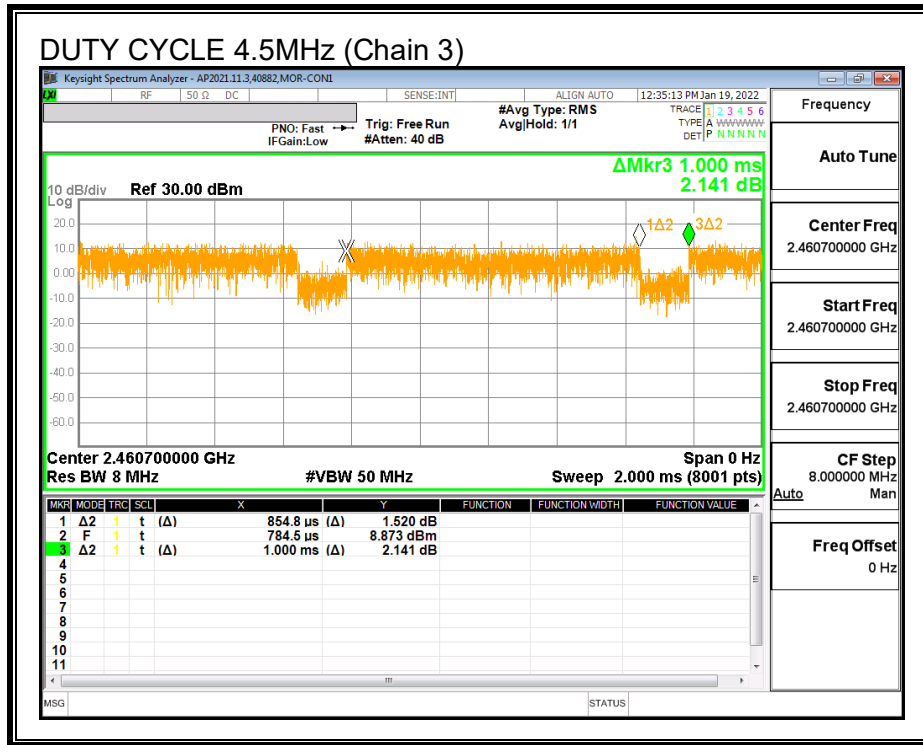
#### PROCEDURE

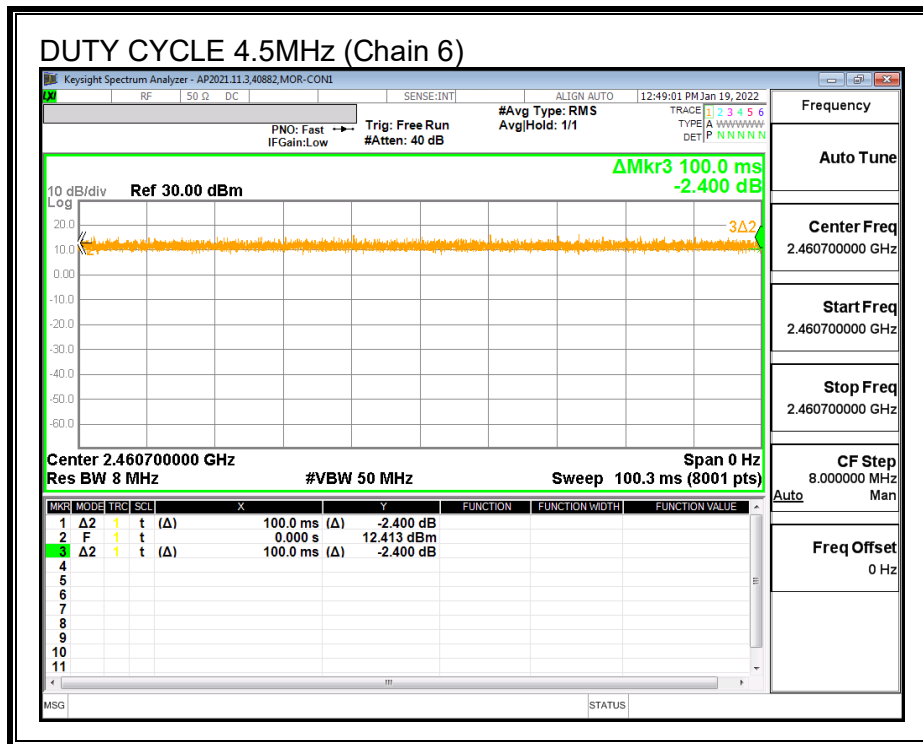
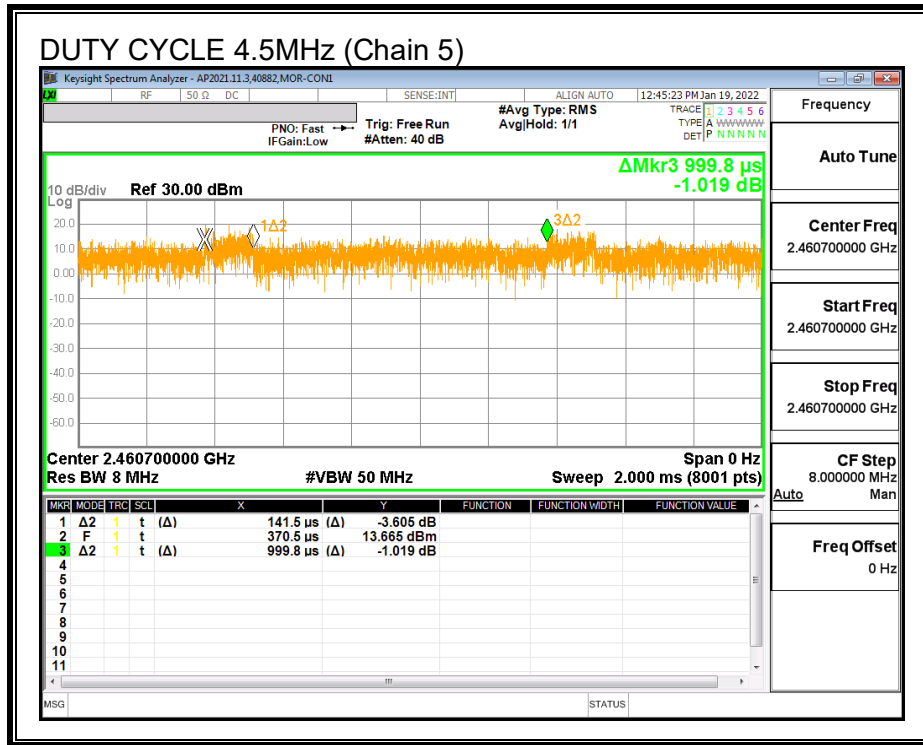
ANSI C63.10 Section 11.6 Zero-Span Spectrum Analyzer Method.

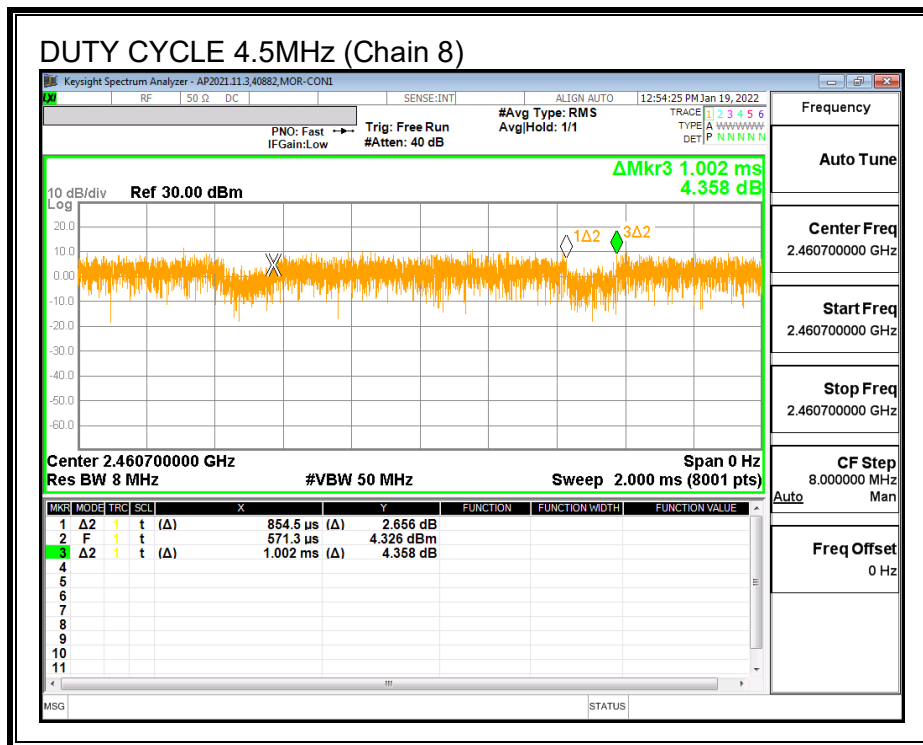
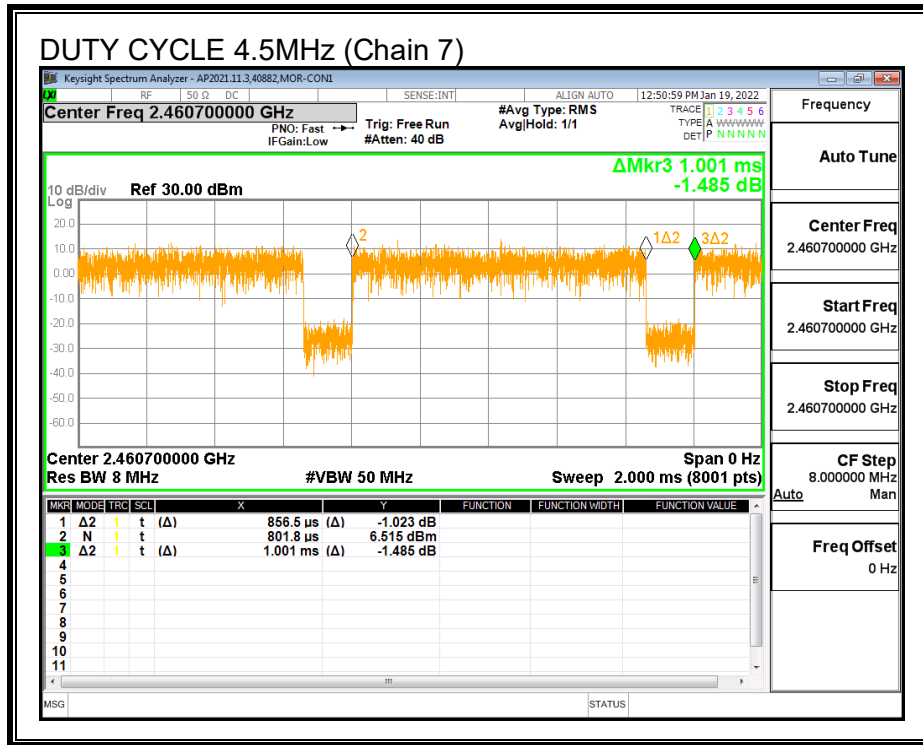
#### ON TIME AND DUTY CYCLE RESULTS – QPSK

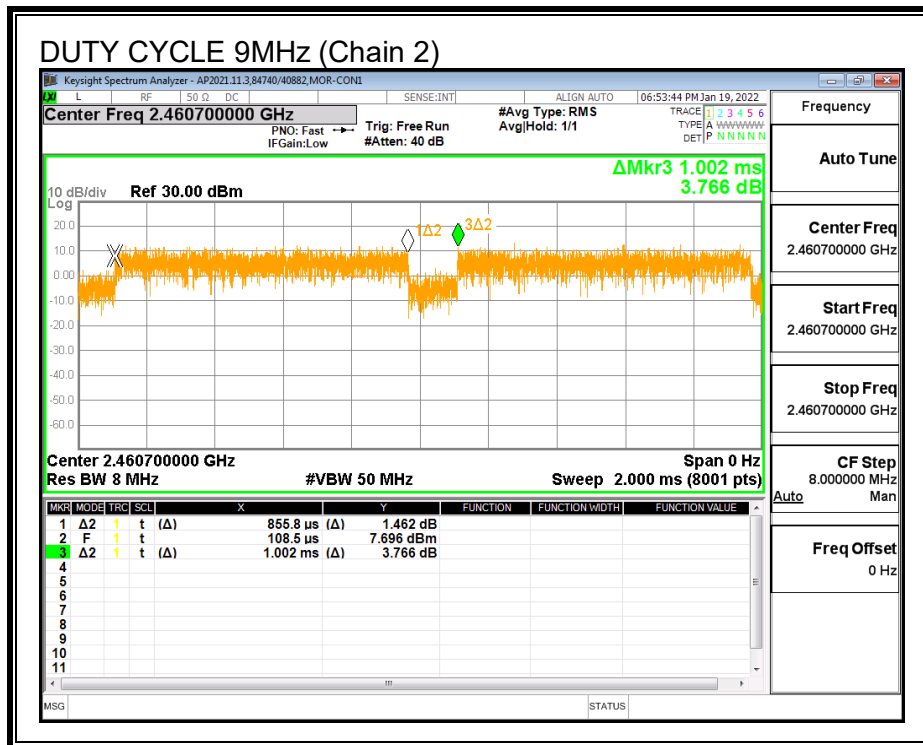
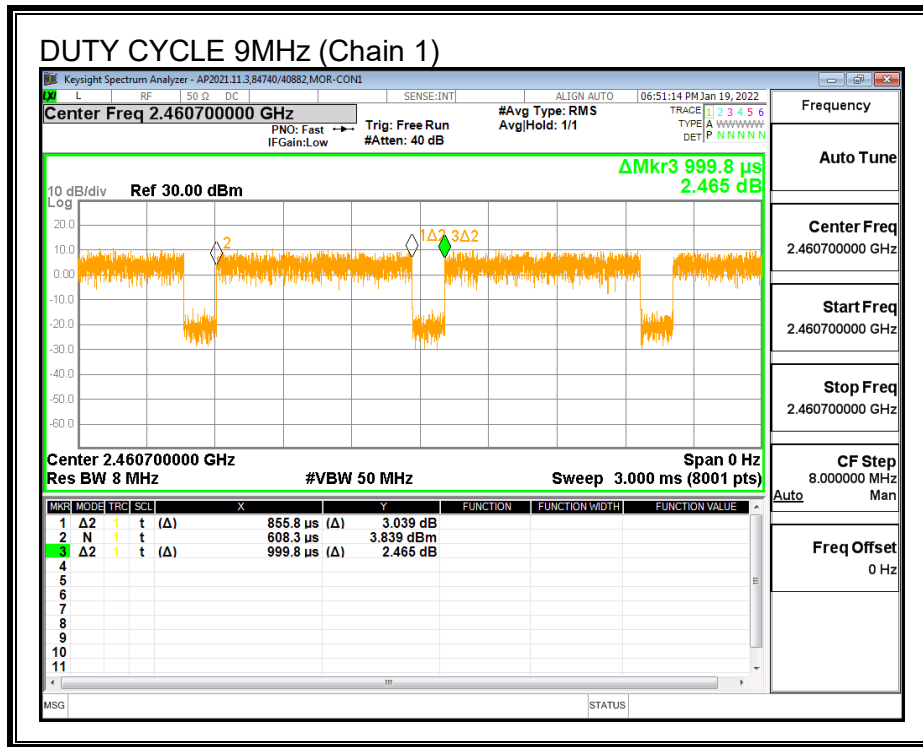
Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
<b>2.4GHz Band (4.5MHz)</b>						
Chain 1	0.853	1.000	0.853	85.25%	1.39	1.173
Chain 2	0.855	1.000	0.855	85.47%	1.36	1.170
Chain 3	0.855	1.000	0.855	85.48%	1.36	1.170
Chain 4	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 5	0.142	1.000	0.142	14.15%	16.98	7.067
Chain 6	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 7	0.857	1.001	0.856	85.56%	1.35	1.168
Chain 8	0.855	1.002	0.853	85.28%	1.38	1.170
<b>2.4GHz Band (9MHz)</b>						
Chain 1	0.856	1.000	0.856	85.60%	1.35	1.168
Chain 2	0.856	1.002	0.854	85.41%	1.37	1.168
Chain 3	0.855	1.001	0.854	85.41%	1.37	1.170
Chain 4	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 5	0.133	1.002	0.133	13.27%	17.54	7.519
Chain 6	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 7	0.857	1.000	0.857	85.65%	1.35	1.168
Chain 8	0.852	1.001	0.851	85.11%	1.40	1.174



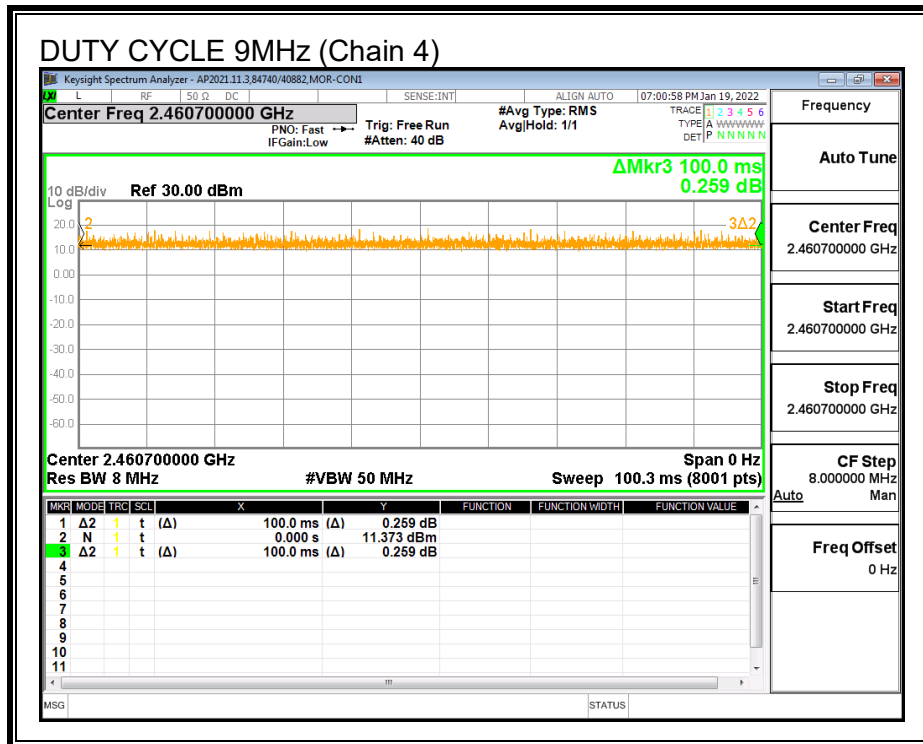
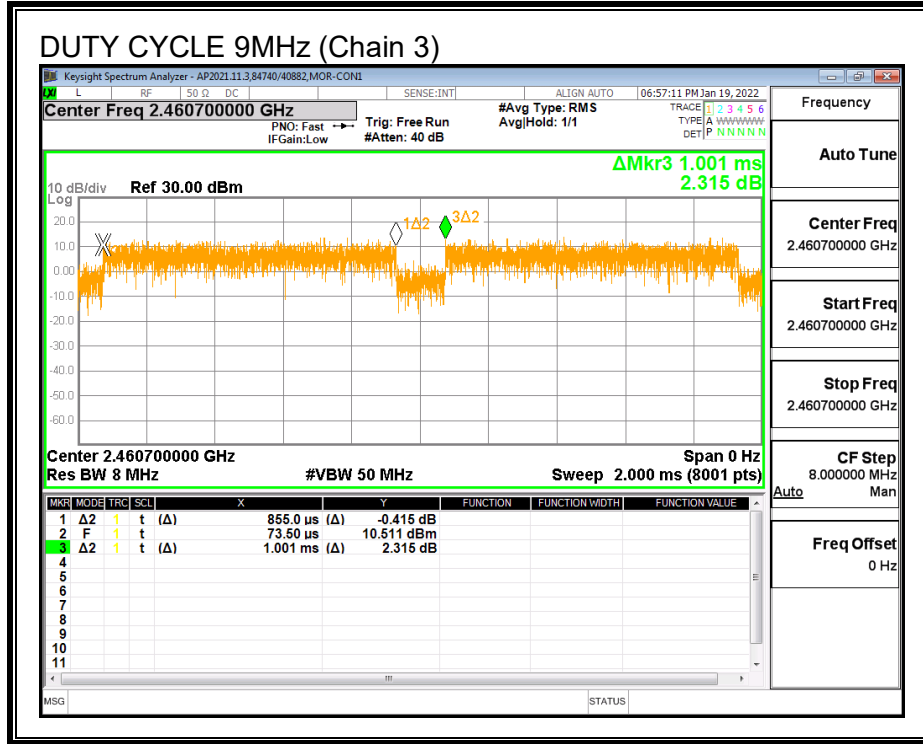


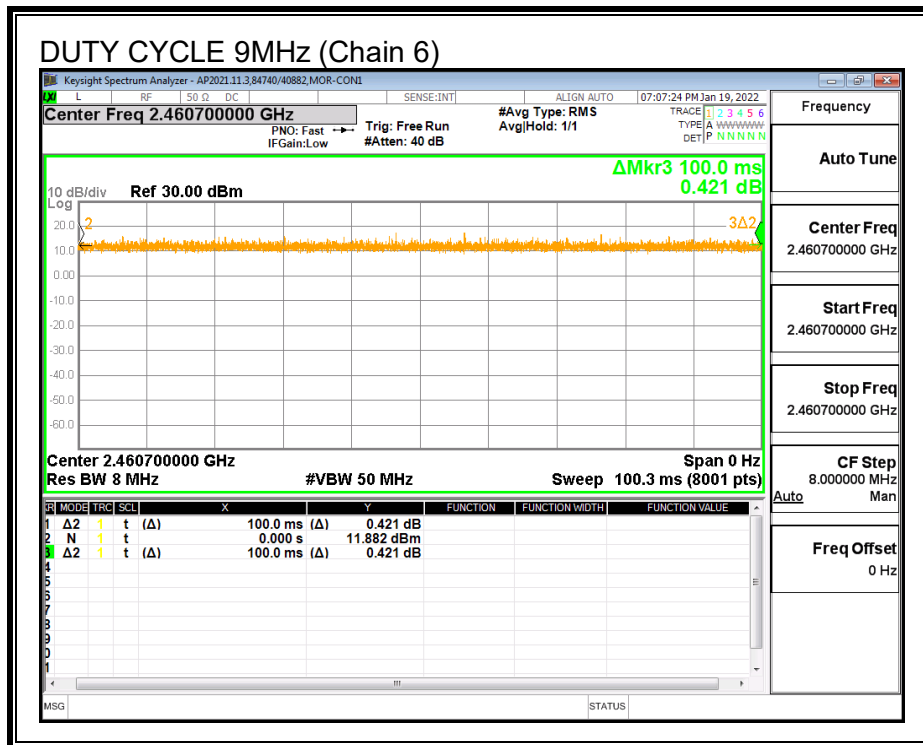
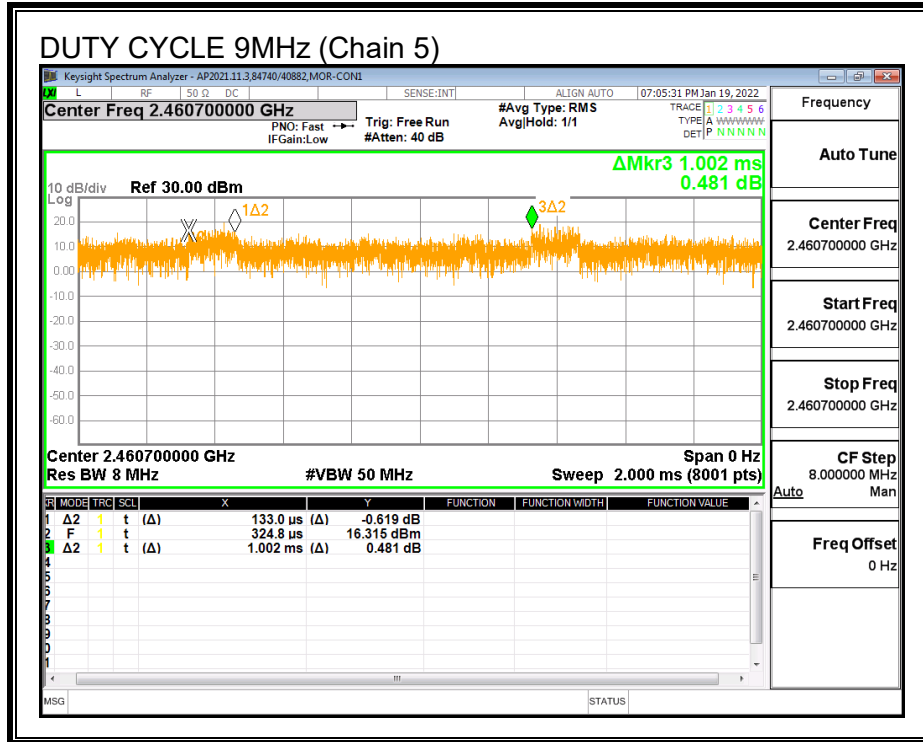


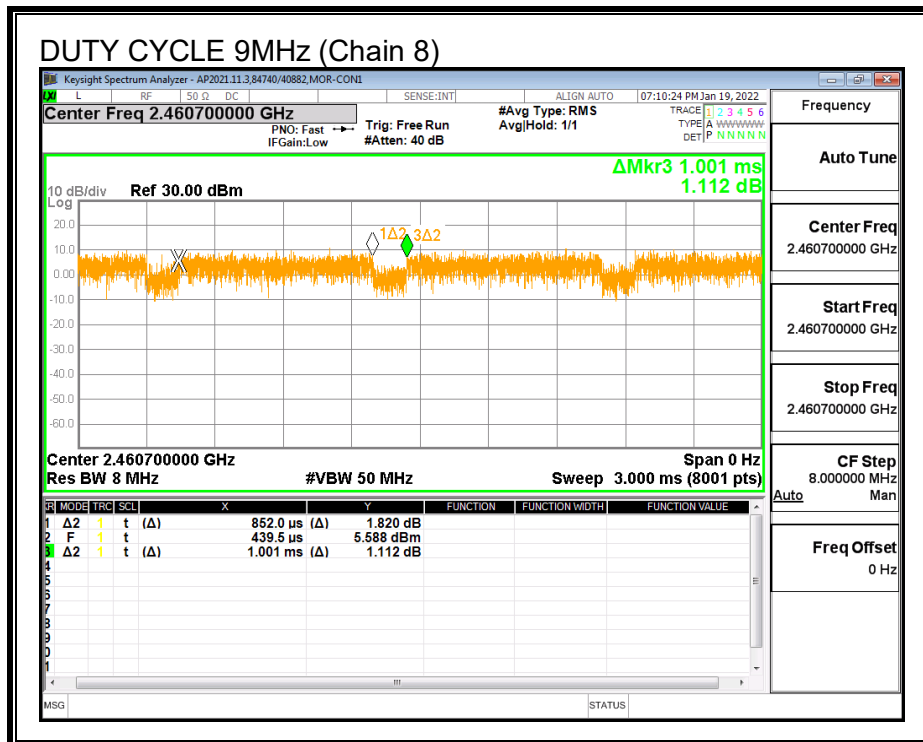
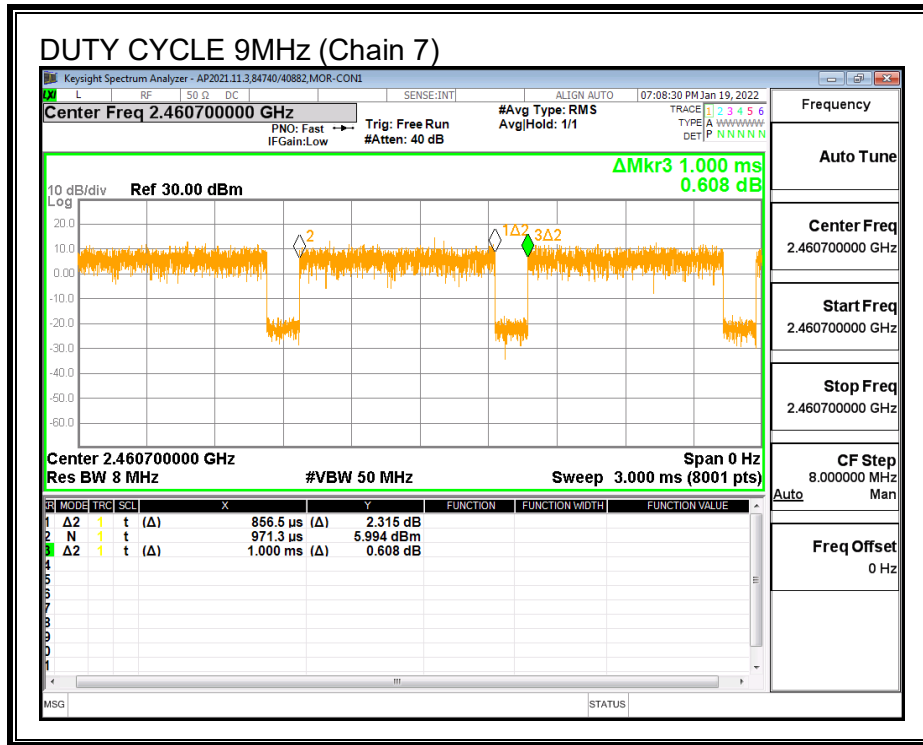






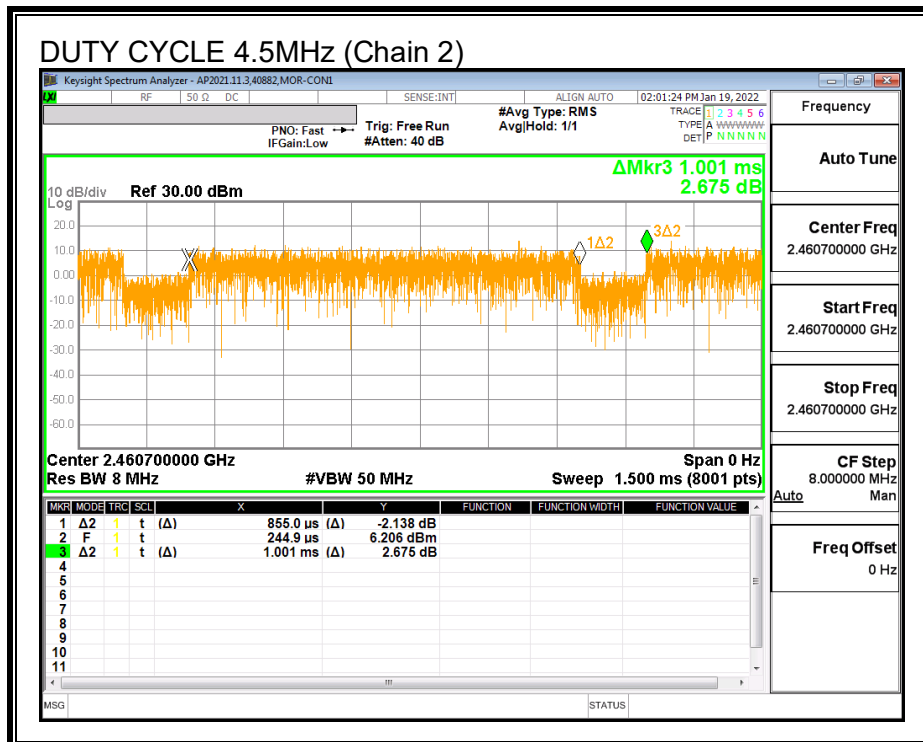
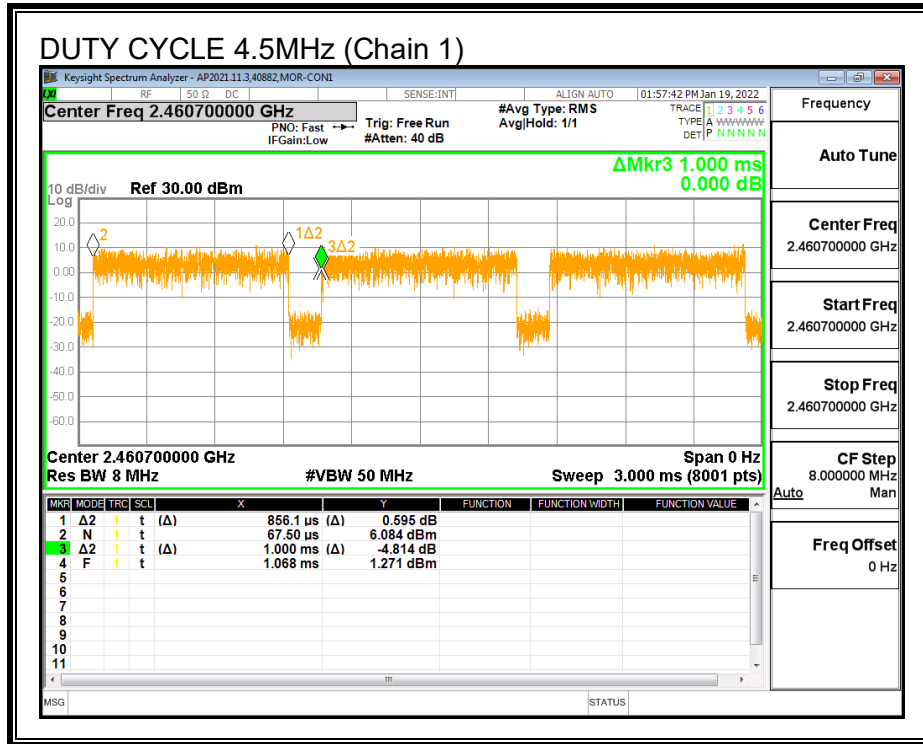


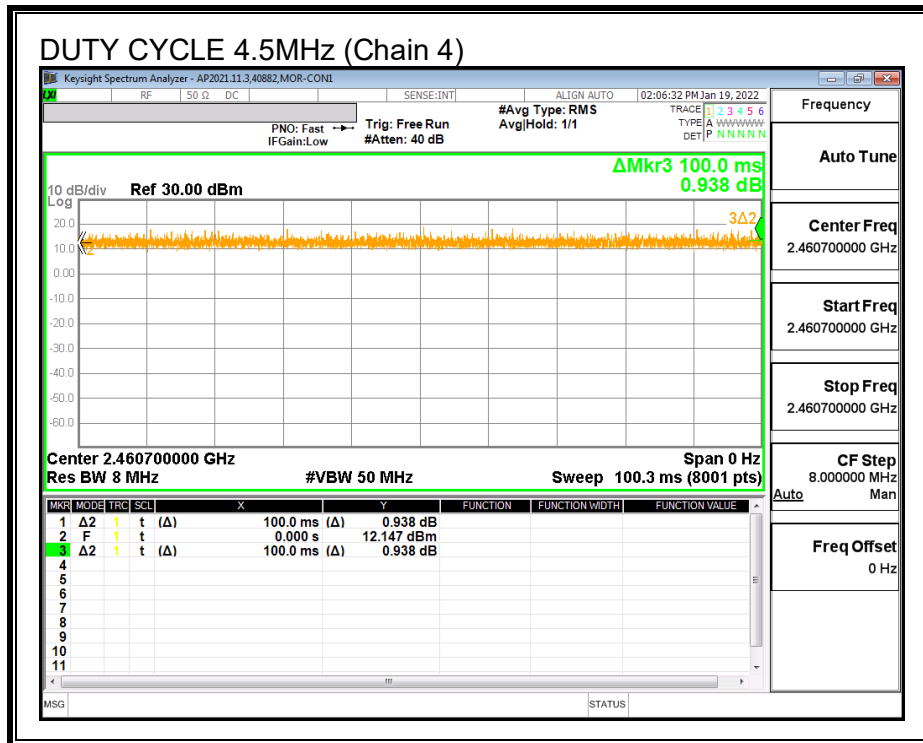
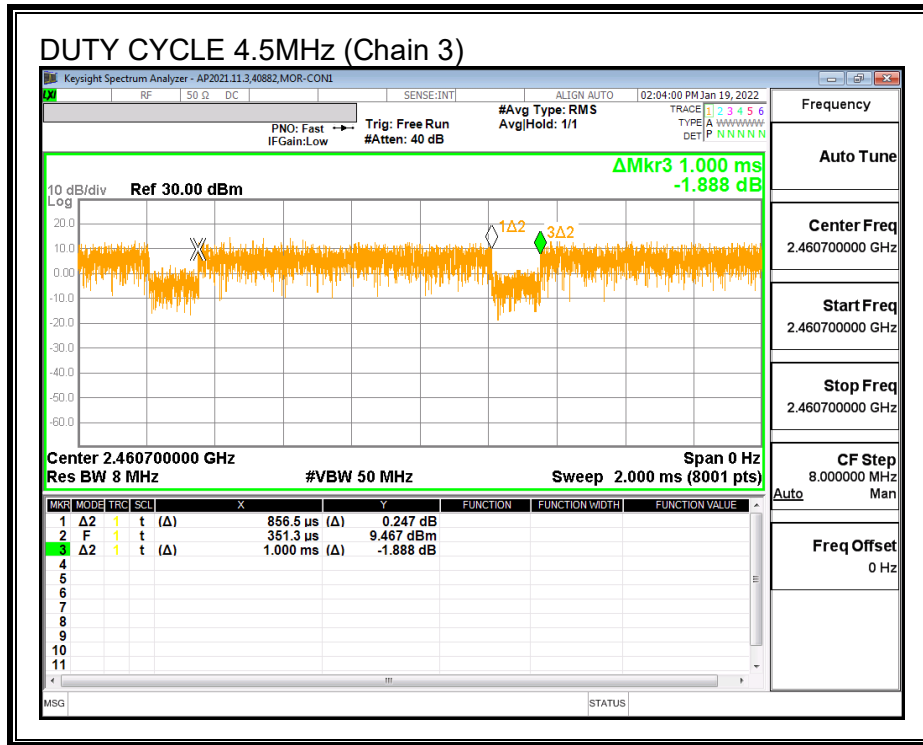


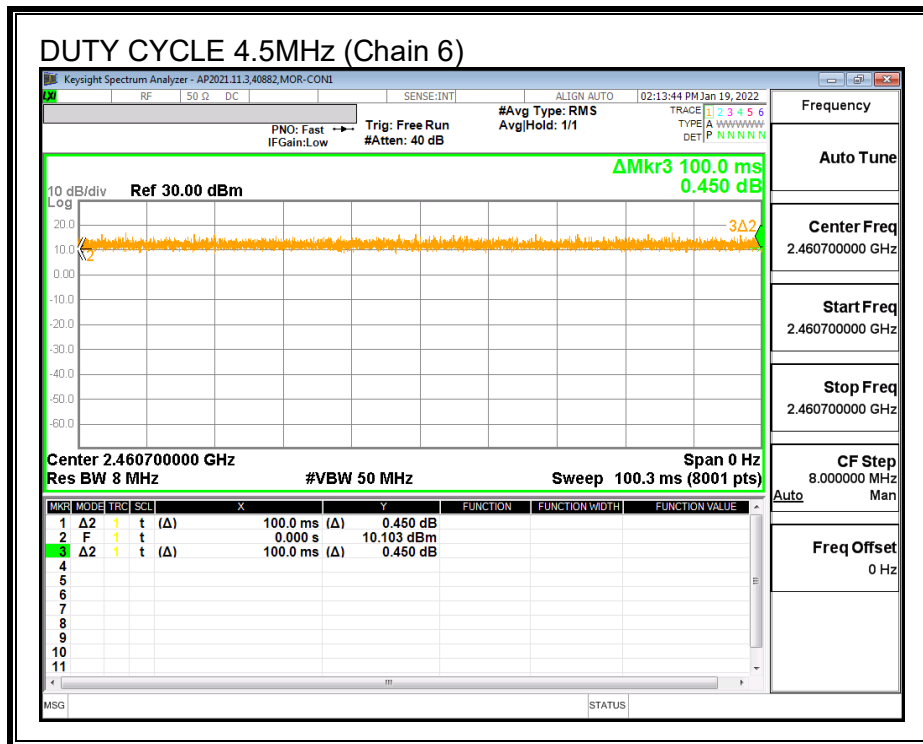
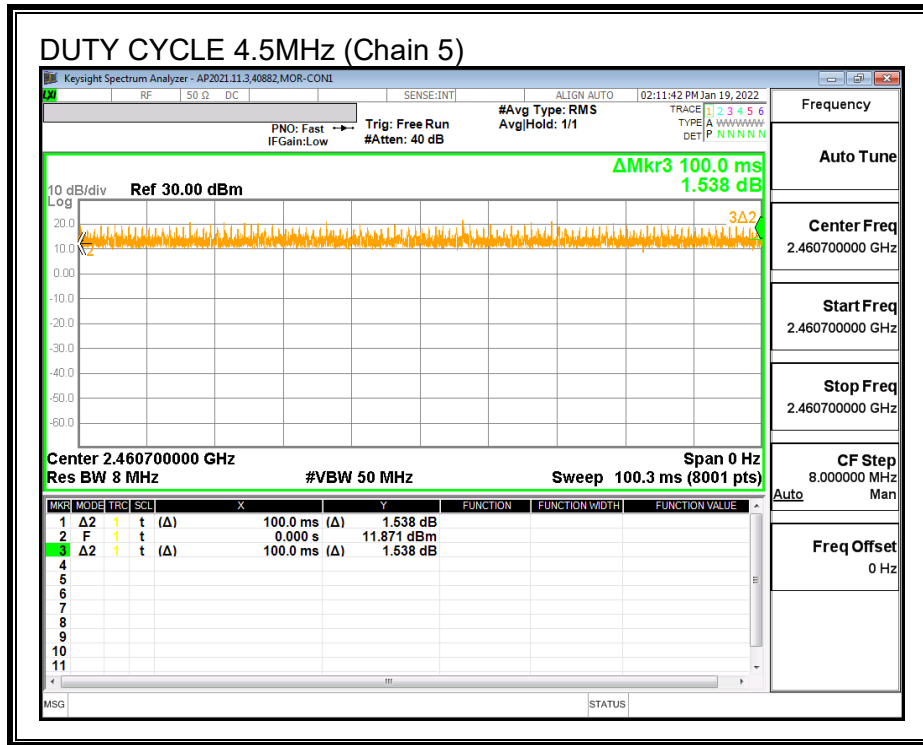


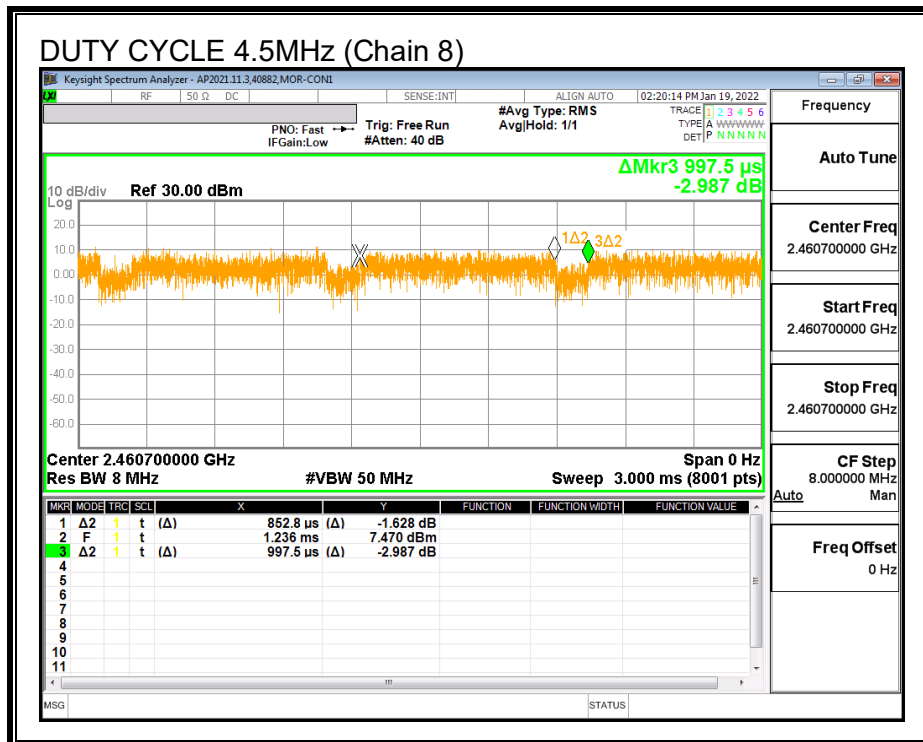
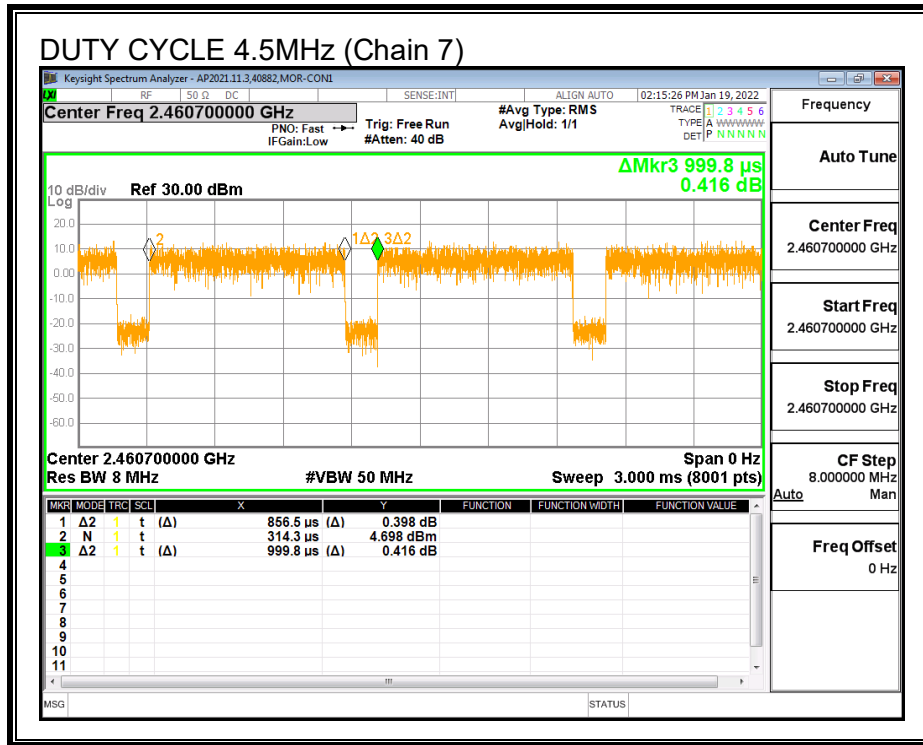
**ON TIME AND DUTY CYCLE RESULTS – 16-QAM**

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
<b>2.4GHz Band (4.5MHz)</b>						
Chain 1	0.856	1.000	0.856	85.61%	1.35	1.168
Chain 2	0.855	1.001	0.854	85.41%	1.37	1.170
Chain 3	0.857	1.000	0.857	85.65%	1.35	1.168
Chain 4	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 5	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 6	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 7	0.857	1.000	0.857	85.67%	1.34	1.168
Chain 8	0.853	0.998	0.855	85.49%	1.36	1.173
<b>2.4GHz Band (9MHz)</b>						
Chain 1	0.857	1.000	0.857	85.65%	1.35	1.168
Chain 2	0.853	1.001	0.852	85.21%	1.39	1.172
Chain 3	0.856	1.001	0.855	85.54%	1.36	1.168
Chain 4	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 5	0.140	1.002	0.139	13.94%	17.11	7.158
Chain 6	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 7	0.856	1.000	0.856	85.61%	1.35	1.168
Chain 8	0.856	1.002	0.855	85.46%	1.36	1.168

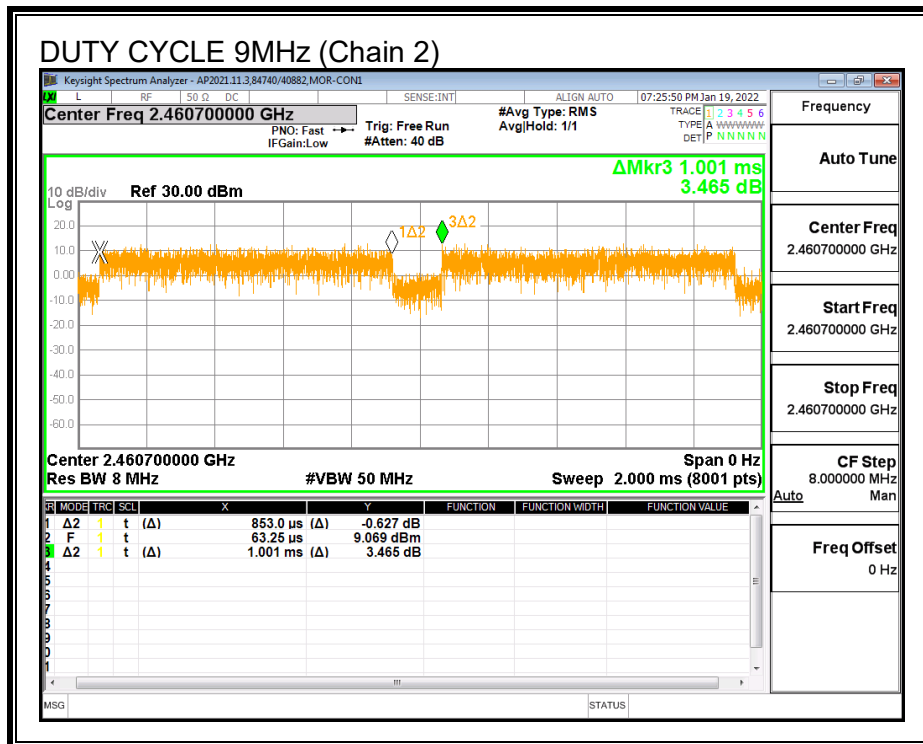
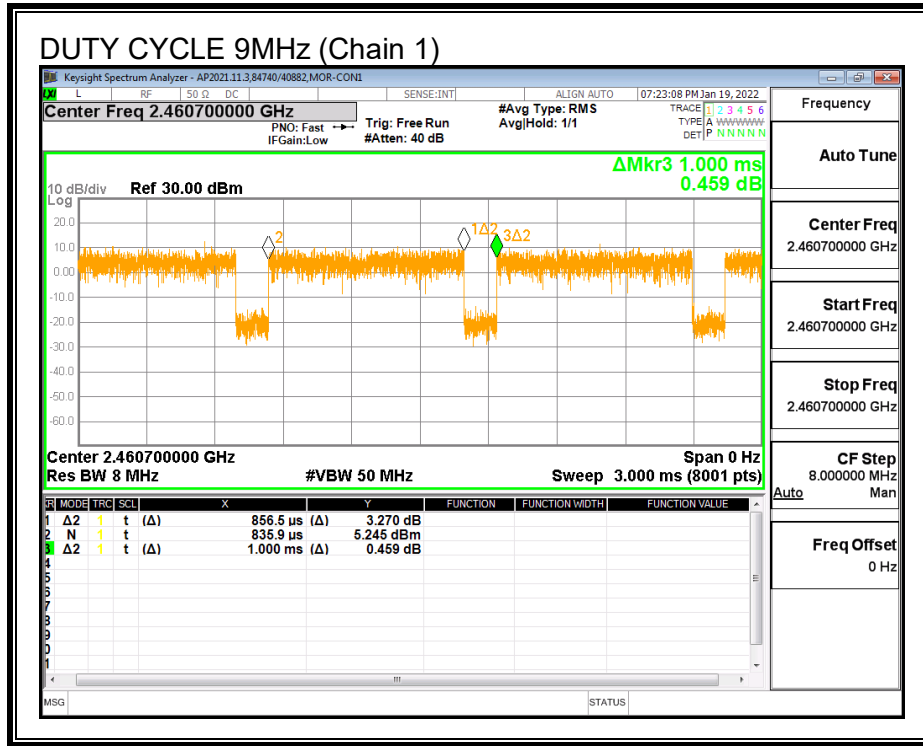


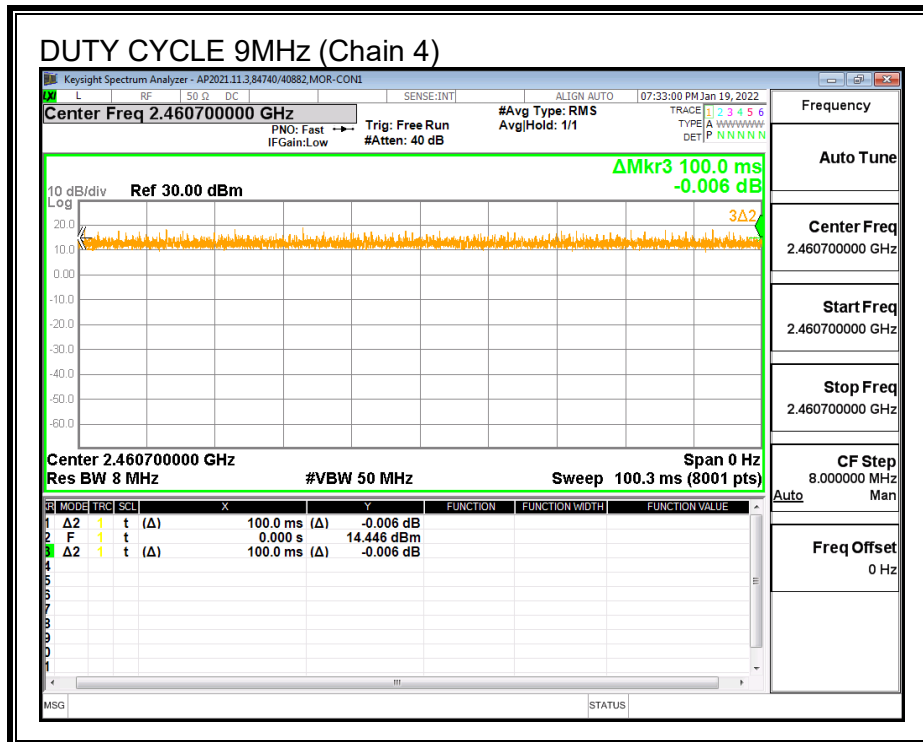
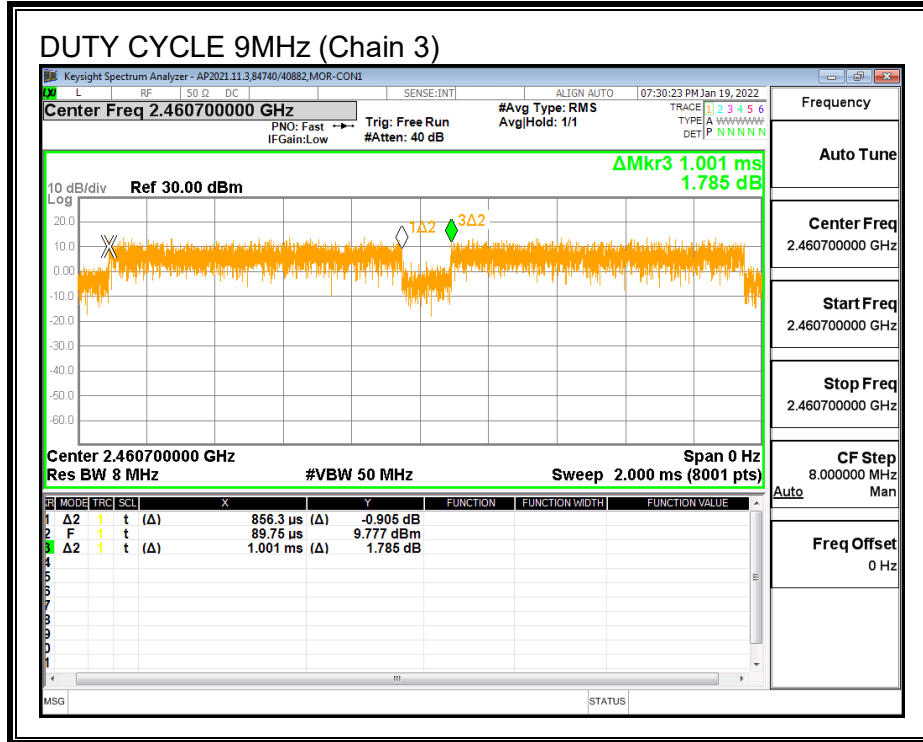


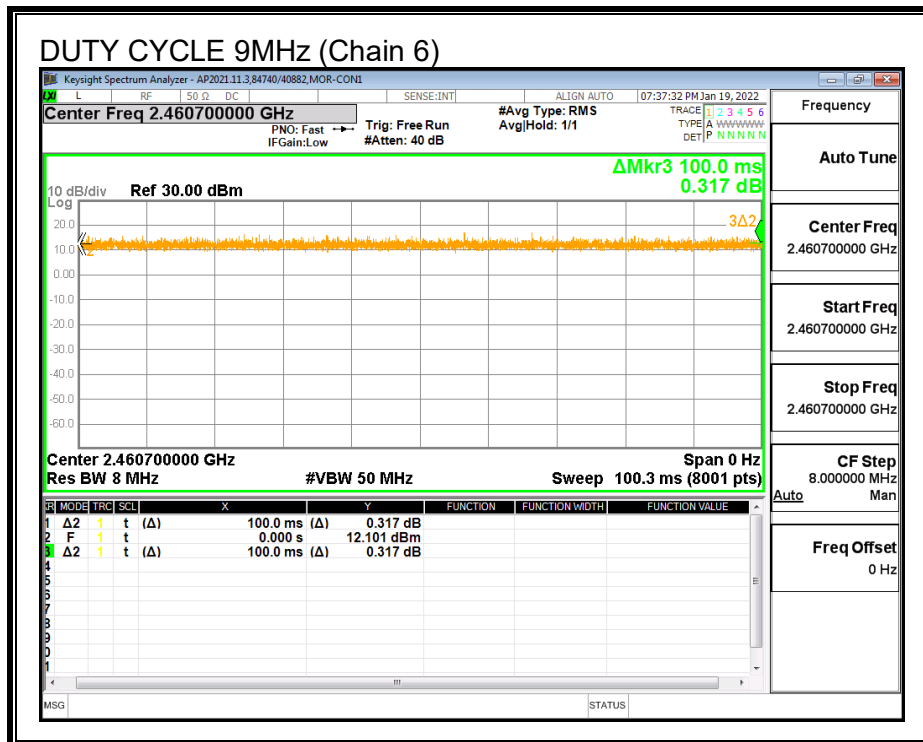
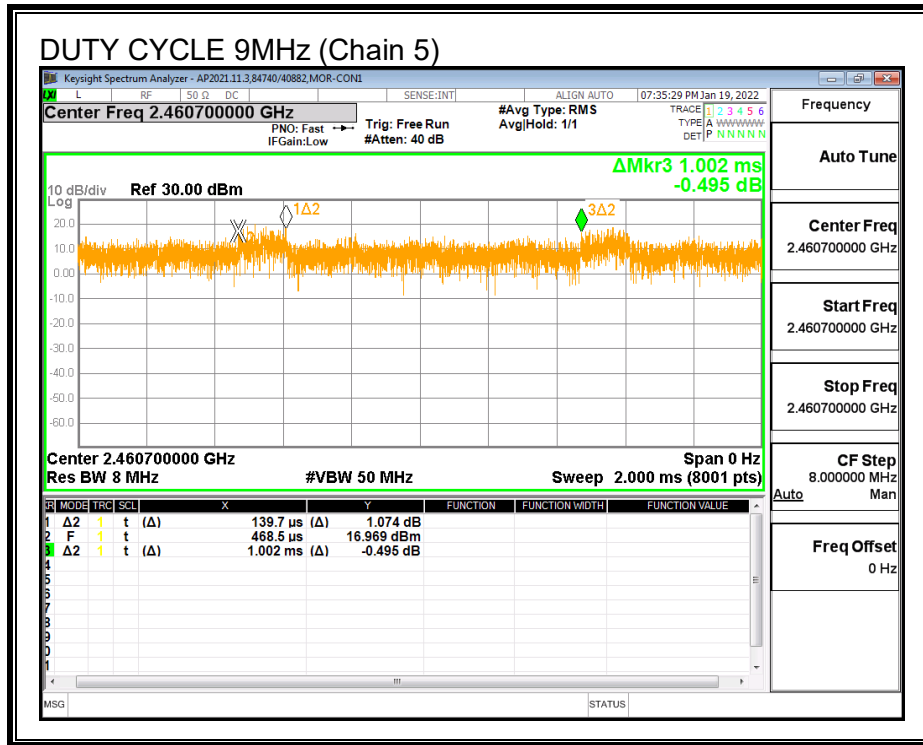


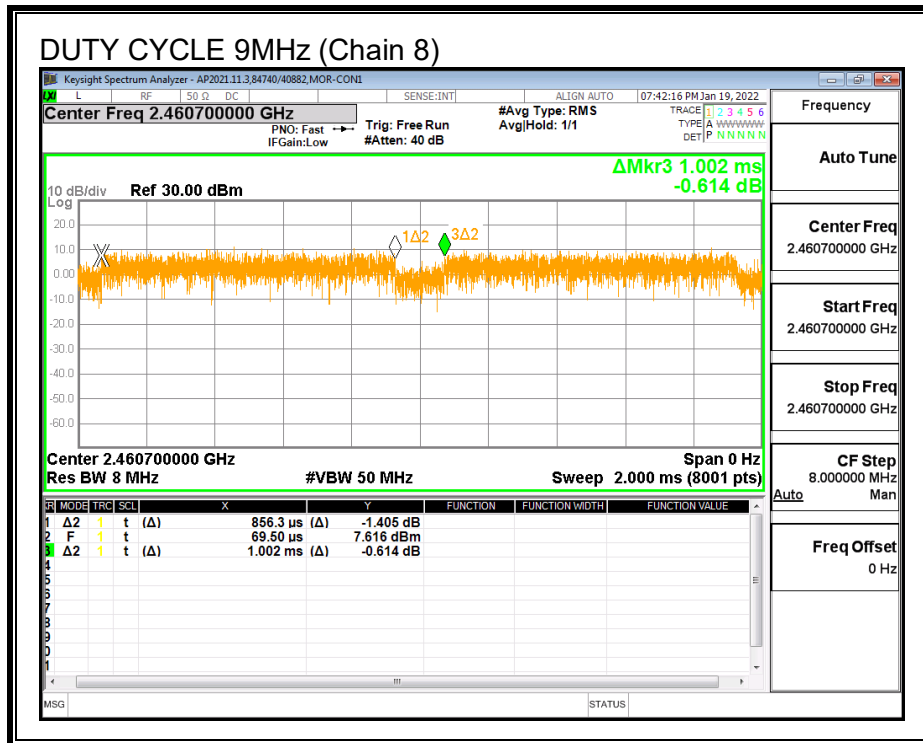
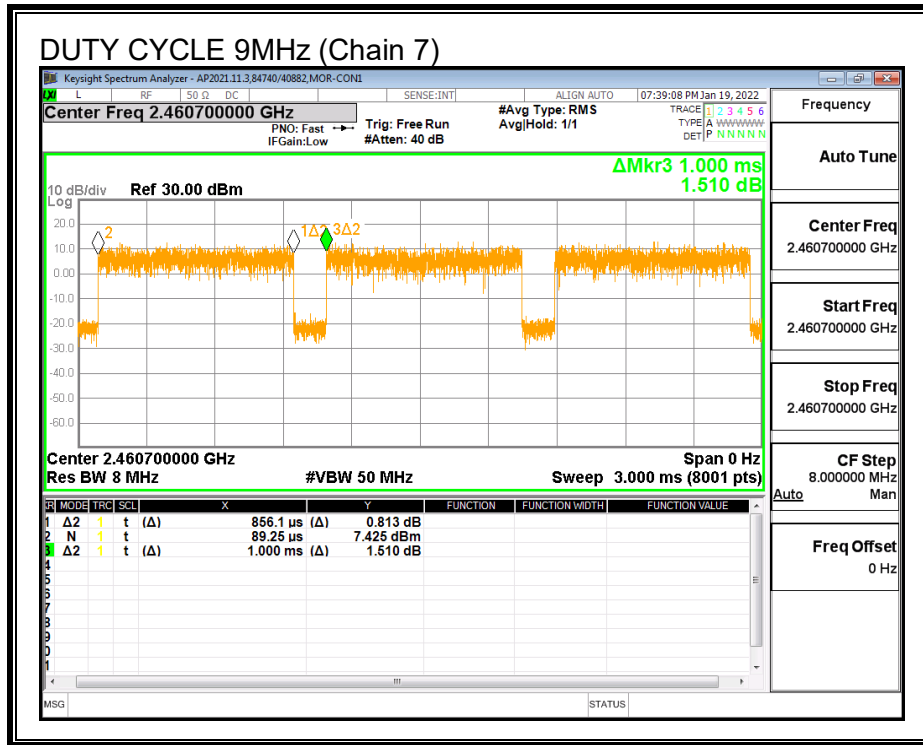






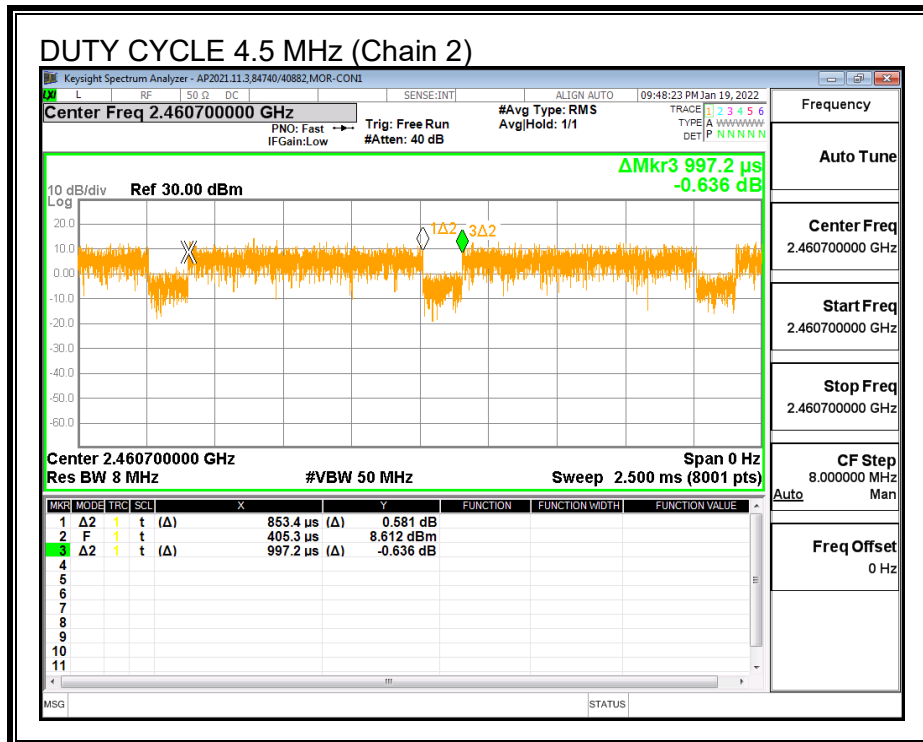
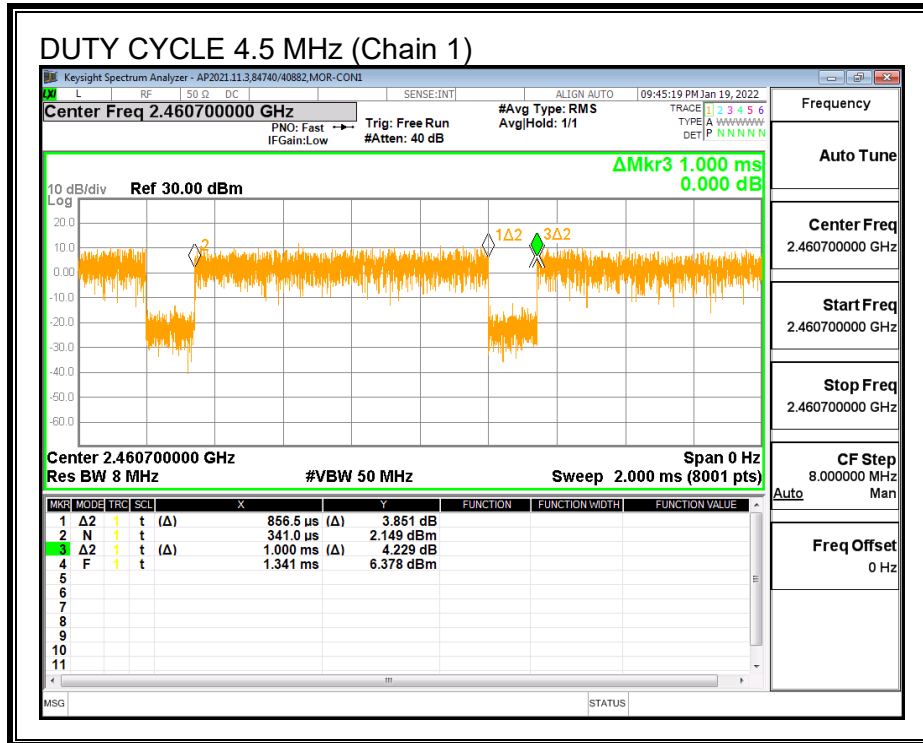


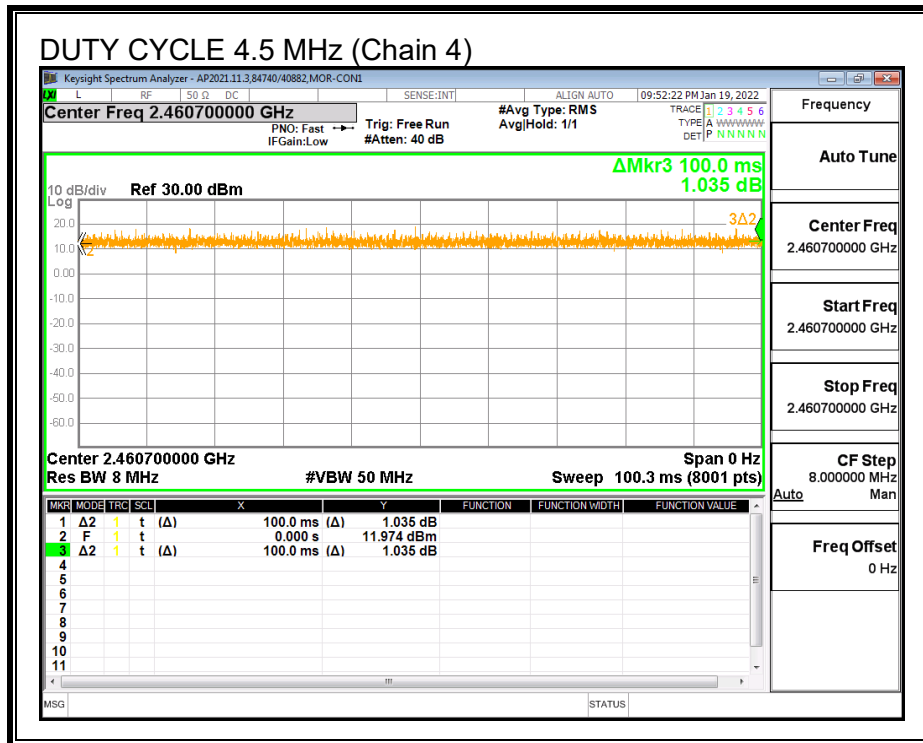
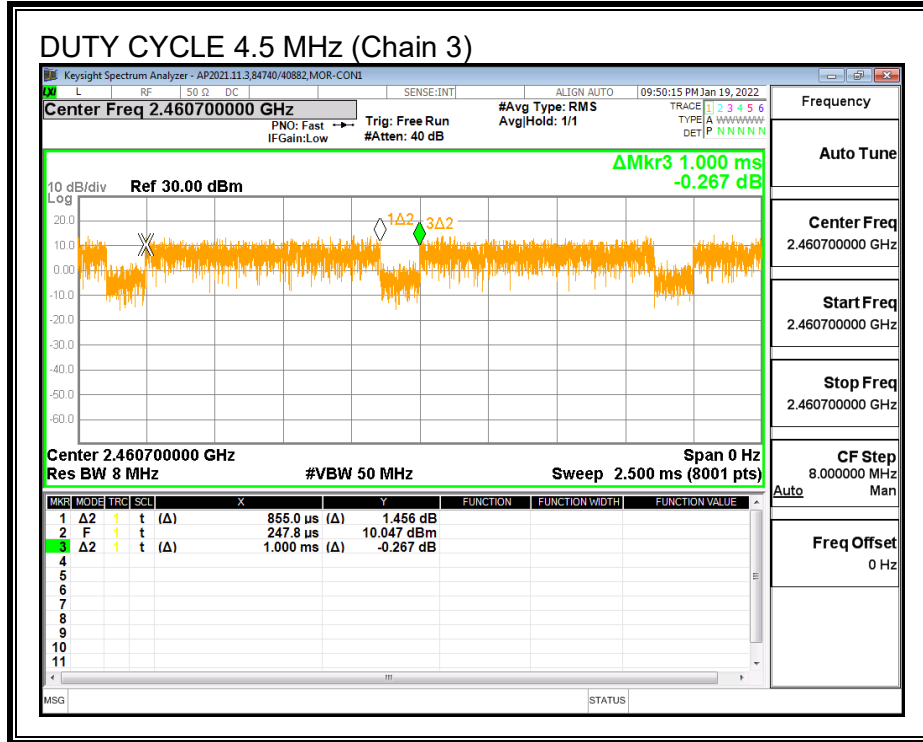


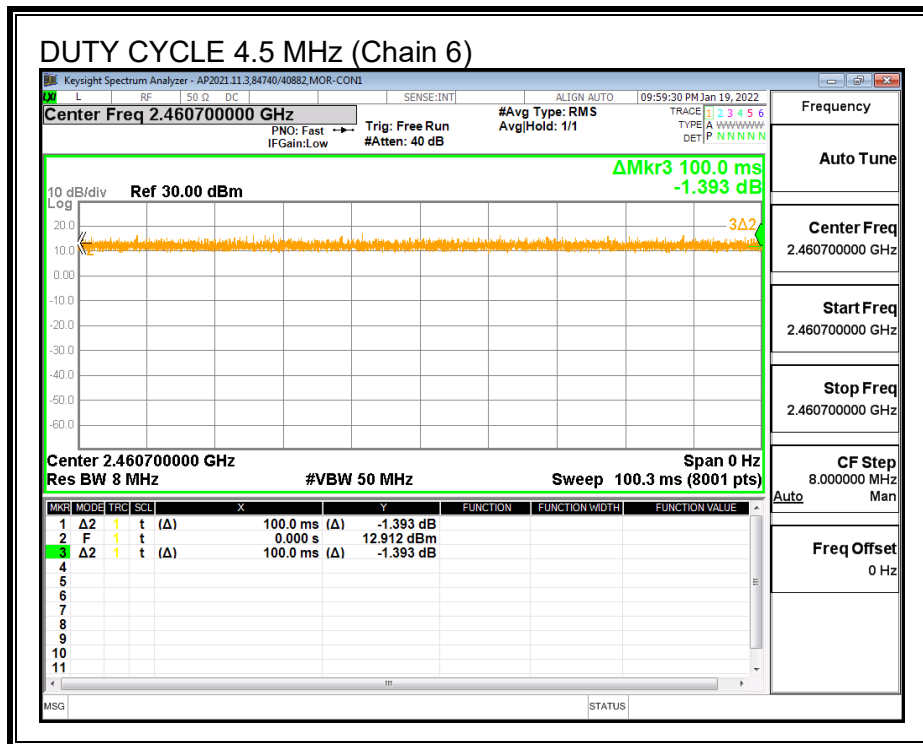
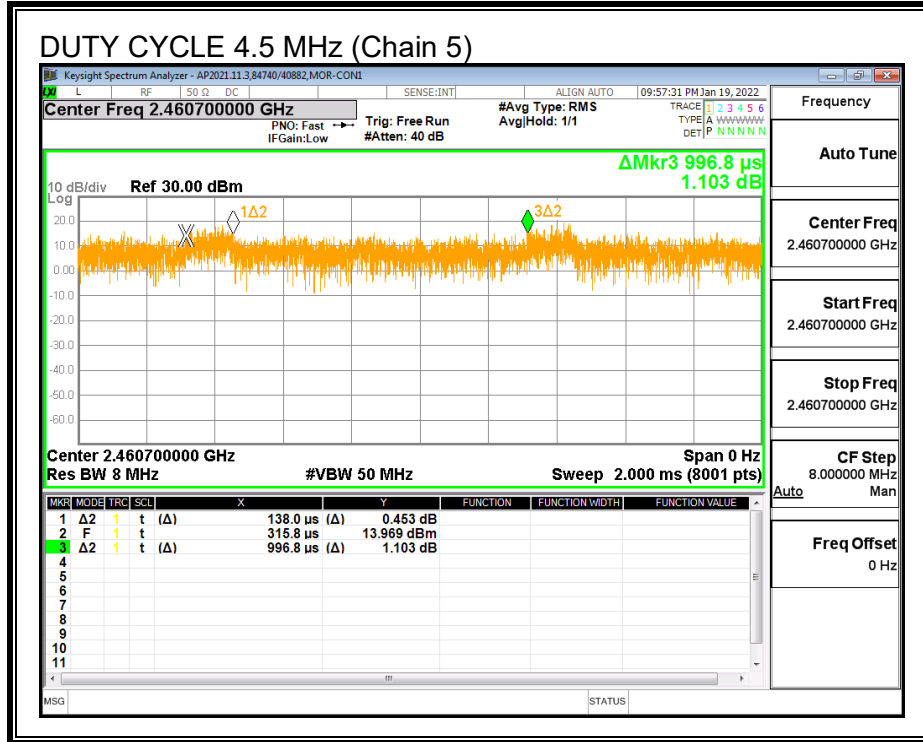


**ON TIME AND DUTY CYCLE RESULTS – 64-QAM**

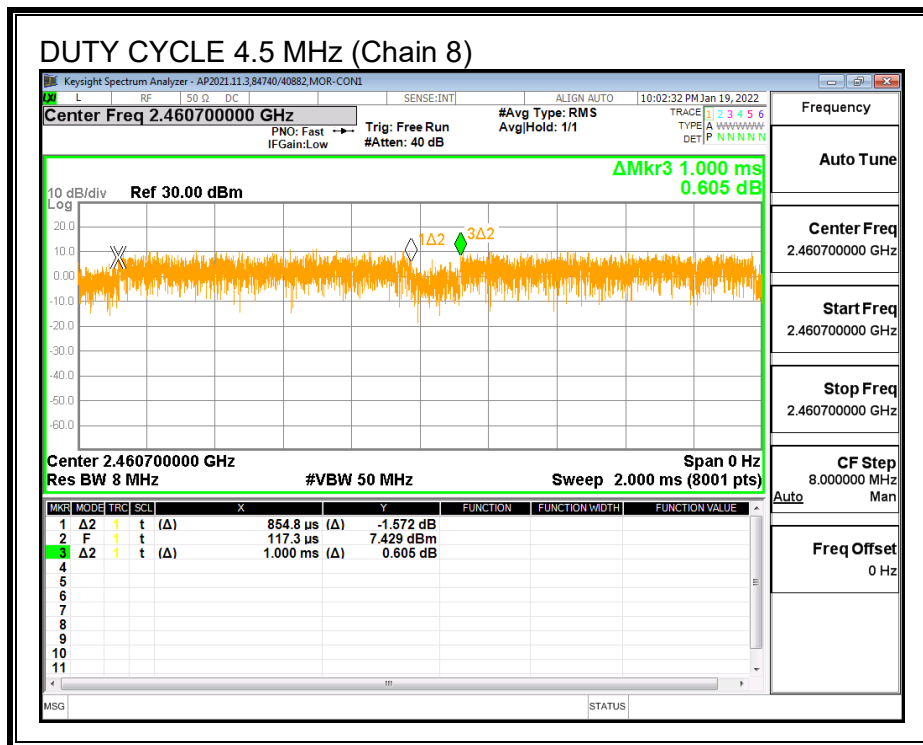
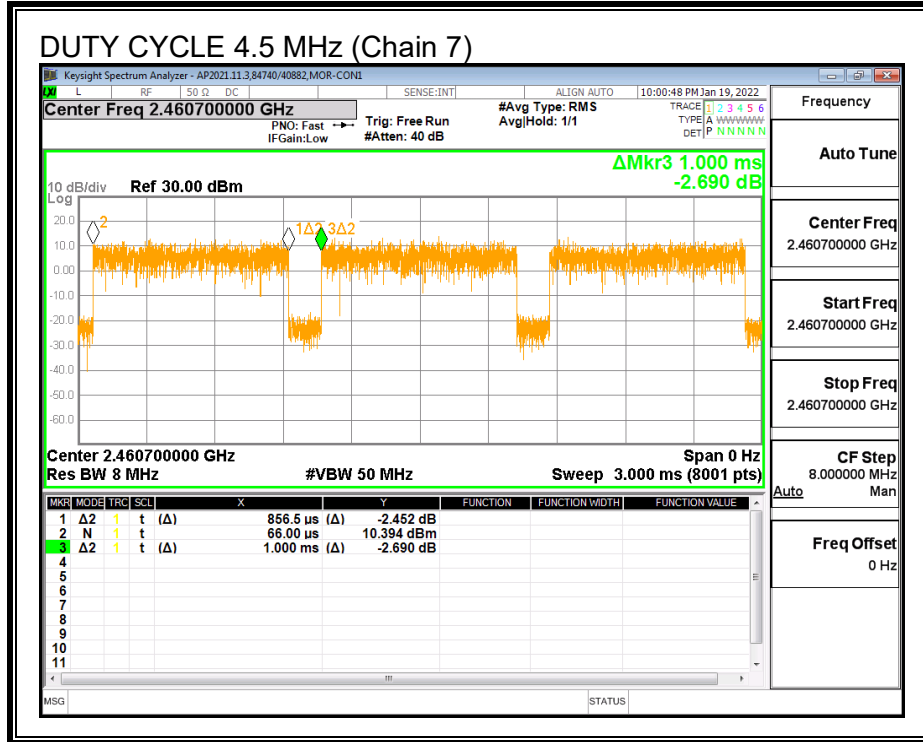
Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
<b>2.4GHz Band (4.5MHz)</b>						
Chain 1	0.857	1.000	0.857	85.65%	1.35	1.168
Chain 2	0.853	0.997	0.856	85.58%	1.35	1.172
Chain 3	0.855	1.000	0.855	85.50%	1.36	1.170
Chain 4	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 5	0.138	0.997	0.138	13.84%	17.17	7.246
Chain 6	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 7	0.857	1.000	0.857	85.65%	1.35	1.168
Chain 8	0.855	1.000	0.855	85.48%	1.36	1.170
<b>2.4GHz Band (9MHz)</b>						
Chain 1	0.856	1.001	0.855	85.52%	1.36	1.168
Chain 2	0.854	0.998	0.855	85.52%	1.36	1.171
Chain 3	0.854	0.999	0.855	85.51%	1.36	1.171
Chain 4	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 5	0.138	1.001	0.138	13.79%	17.21	7.246
Chain 6	100.000	100.000	1.000	100.00%	0.00	0.010
Chain 7	0.857	1.000	0.857	85.67%	1.34	1.168
Chain 8	0.853	1.003	0.851	85.08%	1.40	1.172

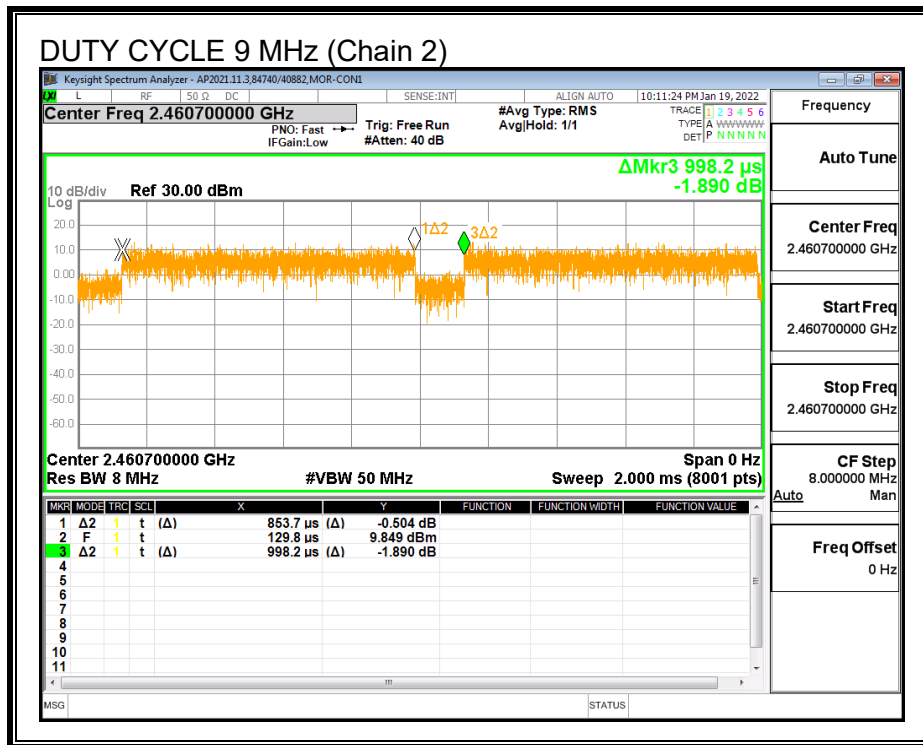
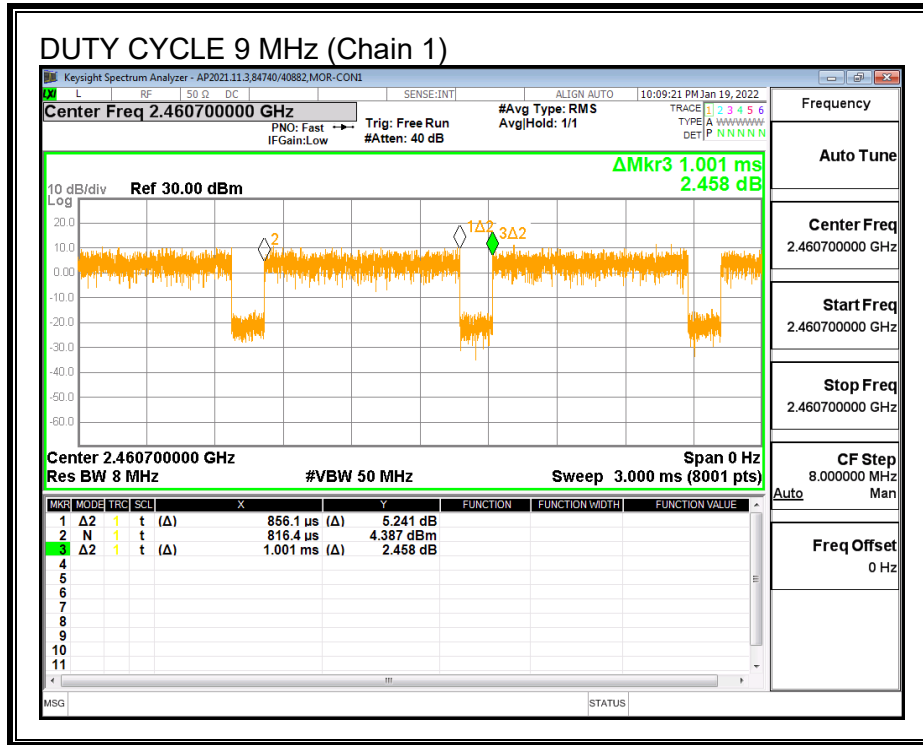


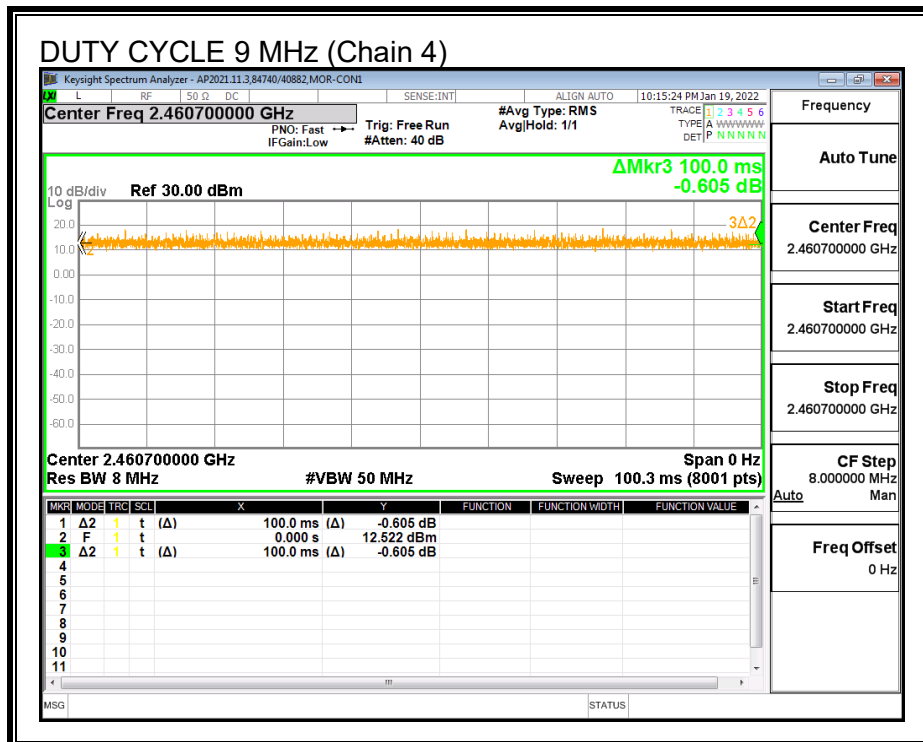
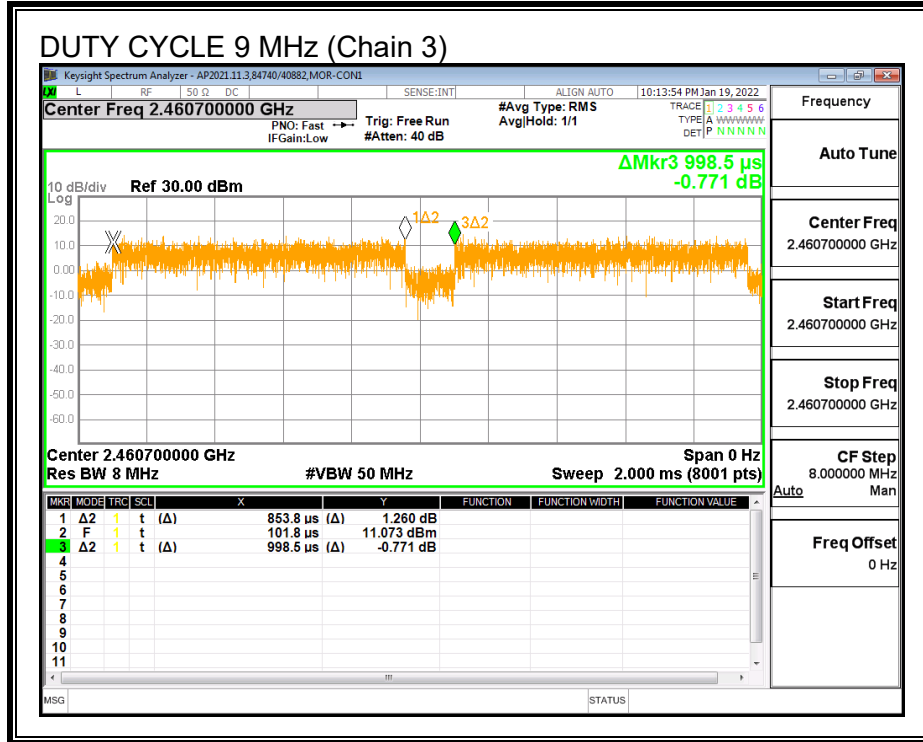


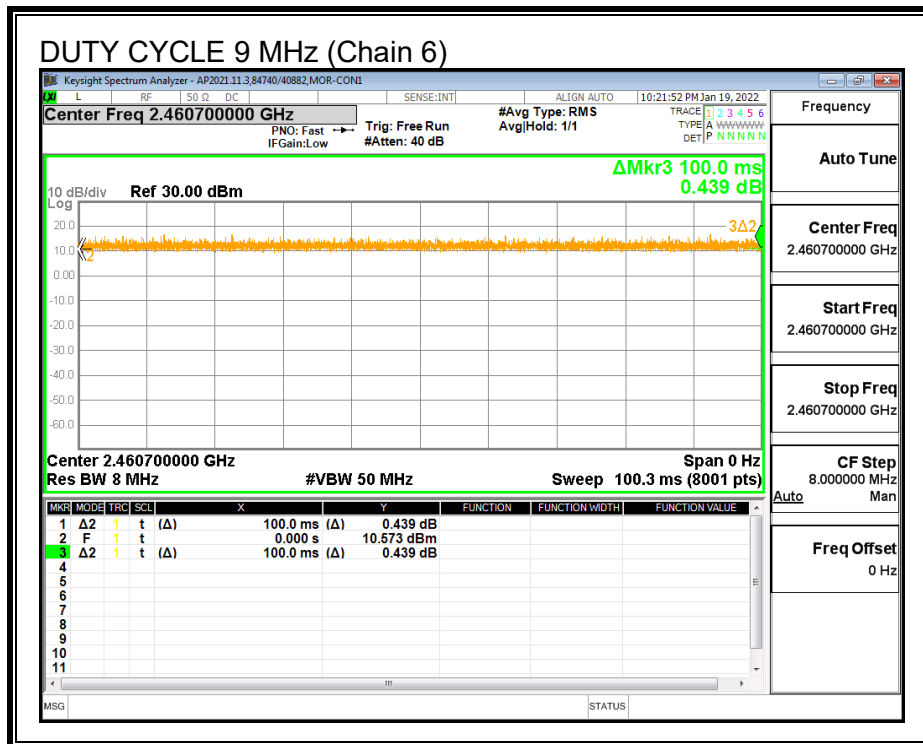
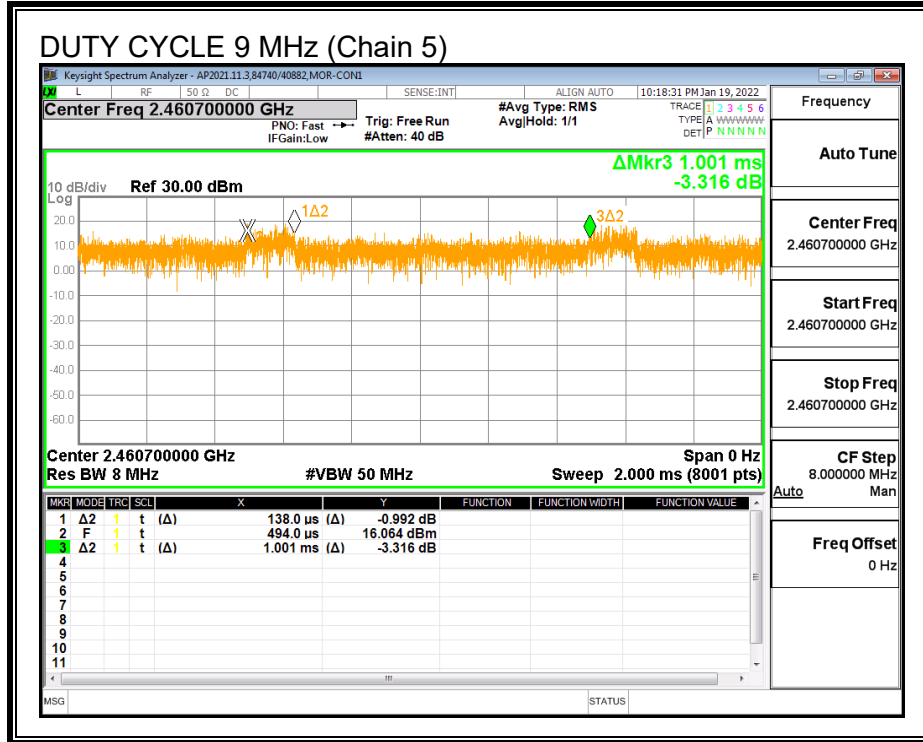


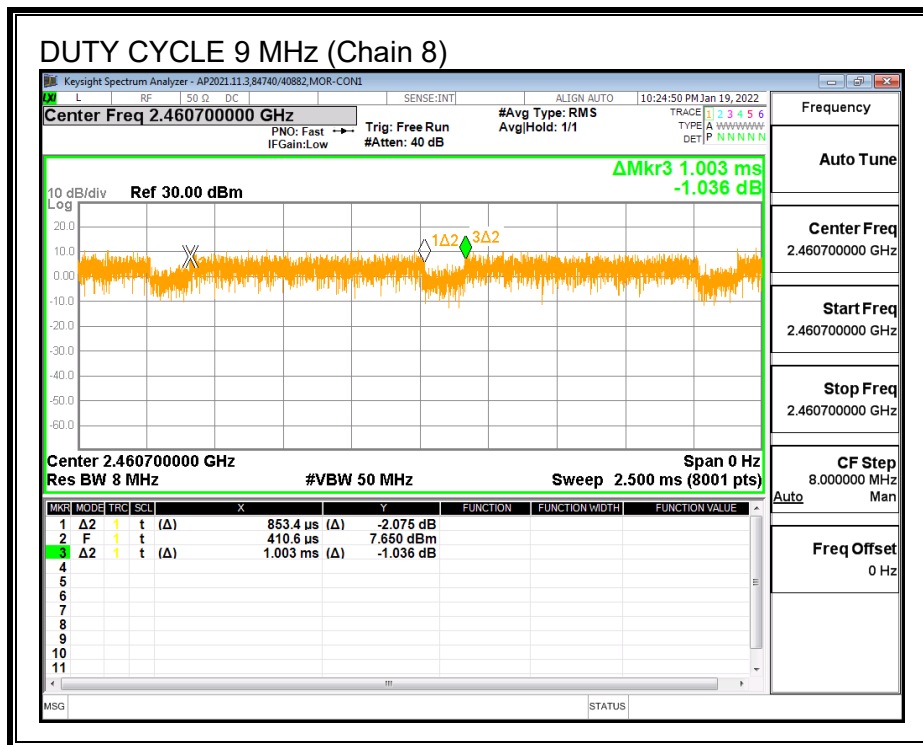
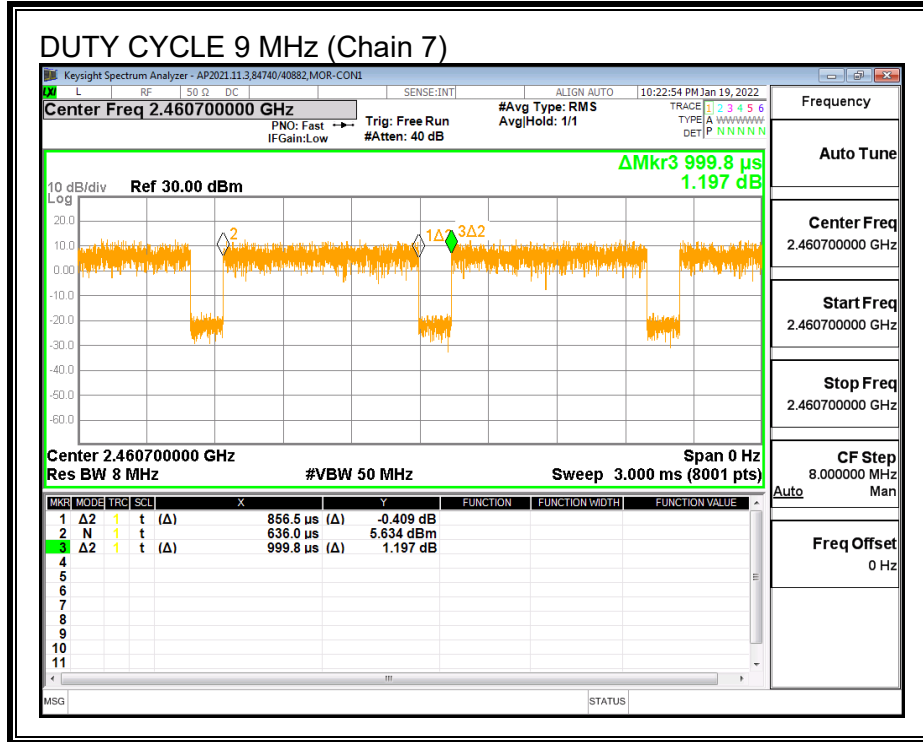












## 10.2. 4.5 MHz MODE IN THE 2.4 GHz AUTHORIZED BAND

### 10.2.1. 6 dB BANDWIDTH

#### LIMITS

FCC §15.247 (a) (2)

The minimum 6 dB bandwidth shall be at least 500 kHz.

#### RESULTS - QPSK

Channel	Frequency (MHz)	6 dB BW Chain 1 (MHz)	6 dB BW Chain 2 (MHz)	6 dB BW Chain 3 (MHz)	6 dB BW Chain 4 (MHz)	Minimum Limit (MHz)
Low	2448.2	4.450	4.480	4.480	4.460	0.5
Mid	2460.7	4.510	4.510	4.550	4.470	0.5
High	2473.2	4.490	4.530	4.540	4.490	0.5

Channel	Frequency (MHz)	6 dB BW Chain 5 (MHz)	6 dB BW Chain 6 (MHz)	6 dB BW Chain 7 (MHz)	6 dB BW Chain 8 (MHz)	Minimum Limit (MHz)
Low	2448.2	4.420	4.530	4.520	4.530	0.5
Mid	2460.7	4.460	4.510	4.470	4.500	0.5
High	2473.2	4.480	4.510	4.520	4.520	0.5

