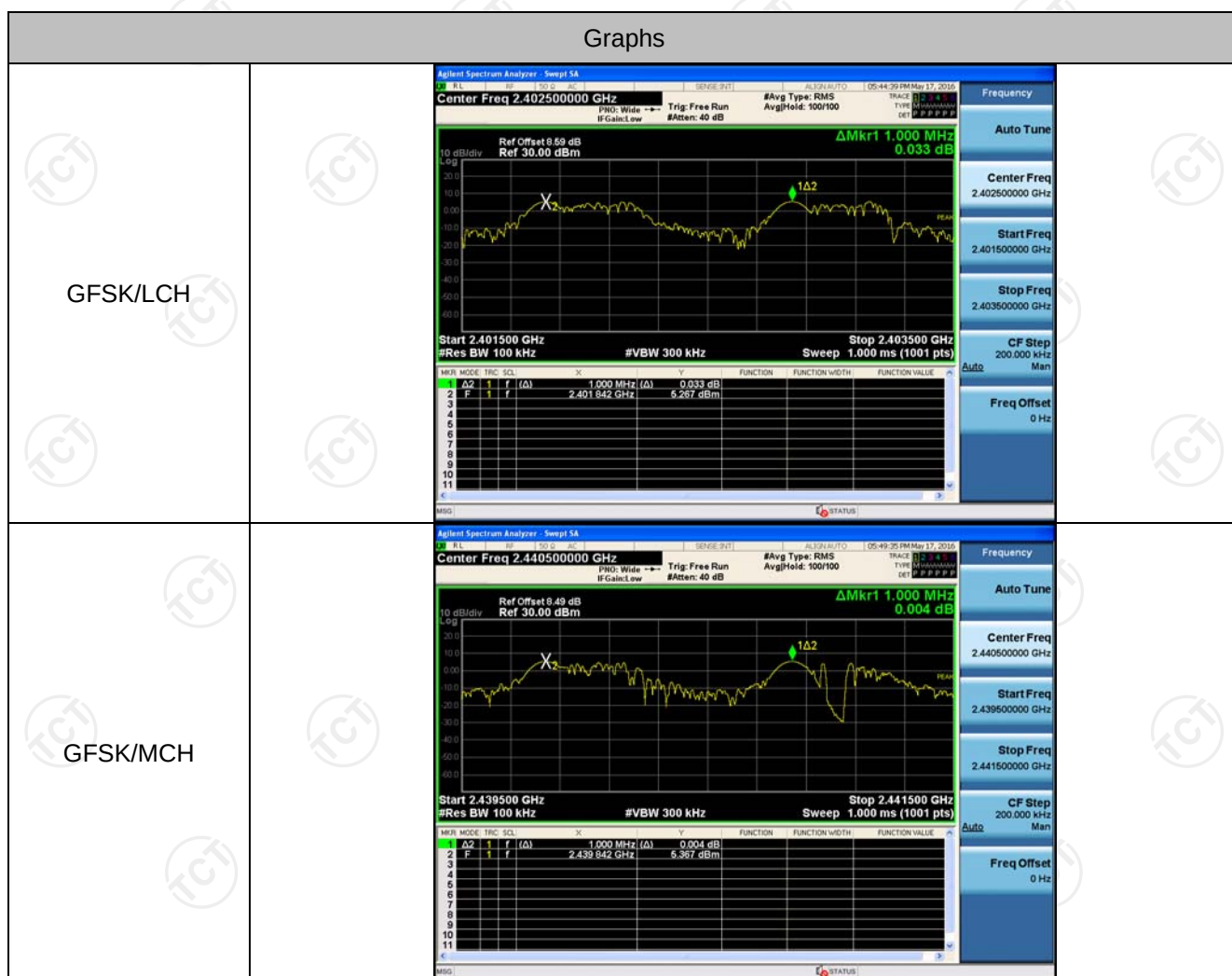


Carrier Frequency Separation

Result Table

Mode	Channel.	Carrier Frequency Separation [MHz]	Verdict
GFSK	LCH	1.000	PASS
GFSK	MCH	1.000	PASS
GFSK	HCH	1.002	PASS
$\pi/4$ DQPSK	LCH	1.362	PASS
$\pi/4$ DQPSK	MCH	1.026	PASS
$\pi/4$ DQPSK	HCH	1.324	PASS
8DPSK	LCH	0.988	PASS
8DPSK	MCH	1.016	PASS
8DPSK	HCH	0.996	PASS

Test Graph



GFSK/HCH



$\pi/4$ DQPSK/LCH



$\pi/4$ DQPSK/MCH



π/4DQPSK/HCH



8DPSK/LCH



8DPSK/MCH



8DPSK/HCH



Dwell Time

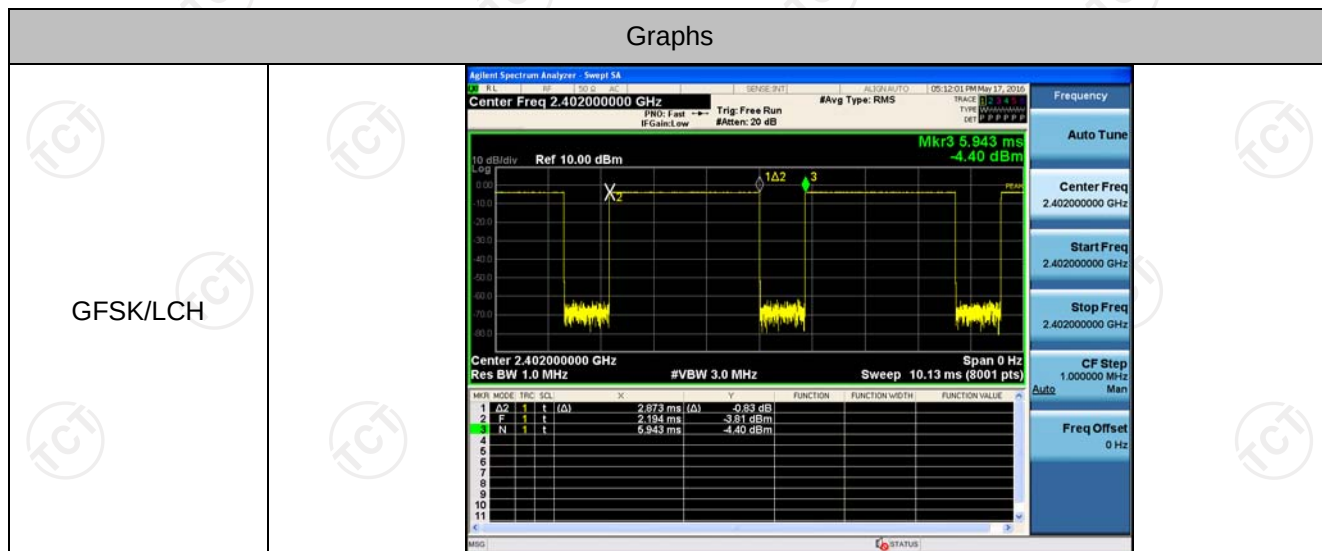
Result Table

The Dwell Time=Burst Width*Total Hops. The detailed calculations are showed as follows:

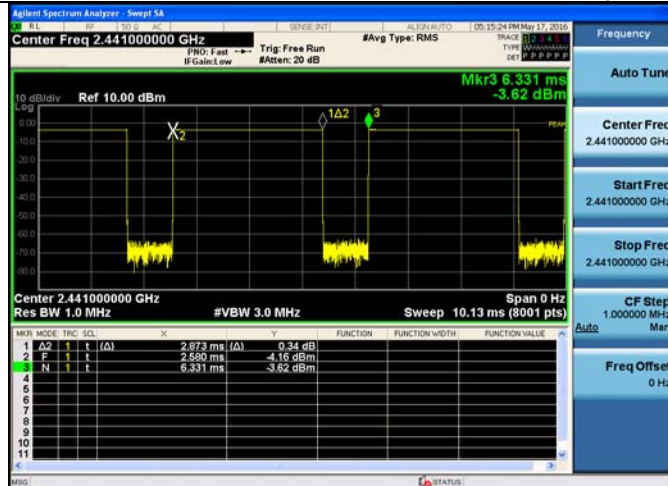
- The duration for dwell time calculation: $0.4[s] \times \text{hopping number} = 0.4[s] \times 79[\text{ch}] = 31.6[s \cdot \text{ch}]$;
- The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.
- The hops per second for all channels: The selected EUT Conf uses a slot type of 5-Tx&1-Rx and a hopping rate of 1600 [ch*hop/s] for all channels. So the final hopping rate for all channels is $1600/6=266.67 [\text{ch} \cdot \text{hop/s}]$
- The hops per second on one channel: $266.67 [\text{ch} \cdot \text{hops/s}] / 79 [\text{ch}] = 3.38 [\text{hop/s}]$;
- The total hops for all channels within the dwell time calculation duration: $3.38 [\text{hop/s}] \times 31.6[s \cdot \text{ch}] = 106.67 [\text{hop} \cdot \text{ch}]$;
- The dwell time for all channels hopping: $106.67 [\text{hop} \cdot \text{ch}] \times \text{Burst Width} [\text{ms/hop/ch}]$.

Mode	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Duty Cycle [%]	Verdict
GFSK	LCH	2.873	106.7	0.307	76.62	PASS
GFSK	MCH	2.873	106.7	0.307	76.60	PASS
GFSK	HCH	2.873	106.7	0.307	76.62	PASS
$\pi/4$ DQPSK	LCH	2.877	106.7	0.307	76.72	PASS
$\pi/4$ DQPSK	MCH	2.877	106.7	0.307	76.70	PASS
$\pi/4$ DQPSK	HCH	2.877	106.7	0.307	76.72	PASS
8DPSK	LCH	2.879	106.7	0.307	76.76	PASS
8DPSK	MCH	2.879	106.7	0.307	76.76	PASS
8DPSK	HCH	2.879	106.7	0.307	76.76	PASS

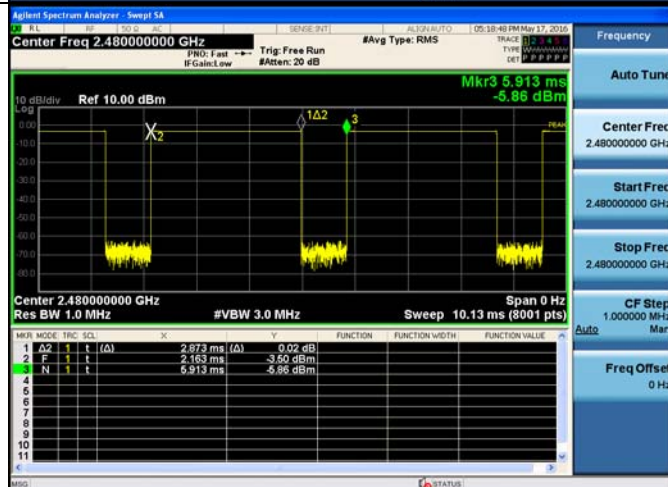
Test Graph



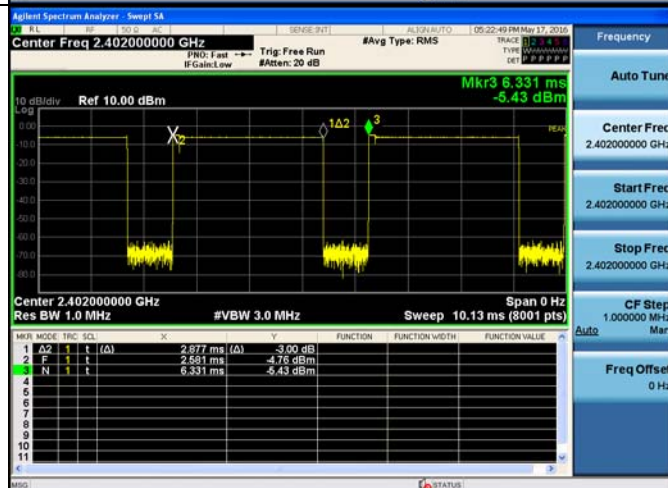
GFSK/MCH

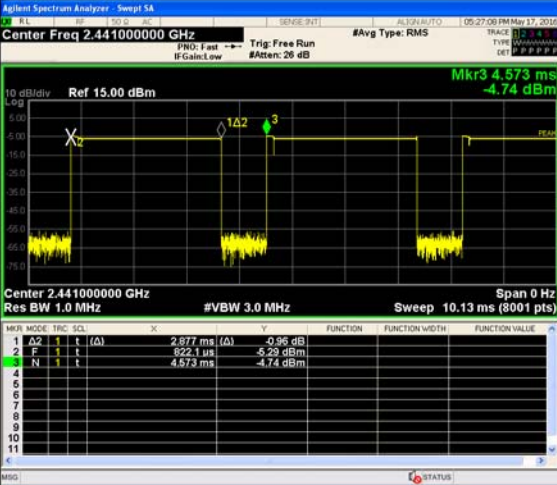
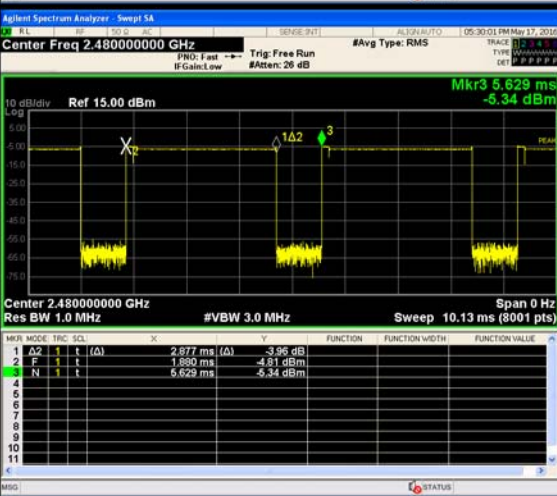
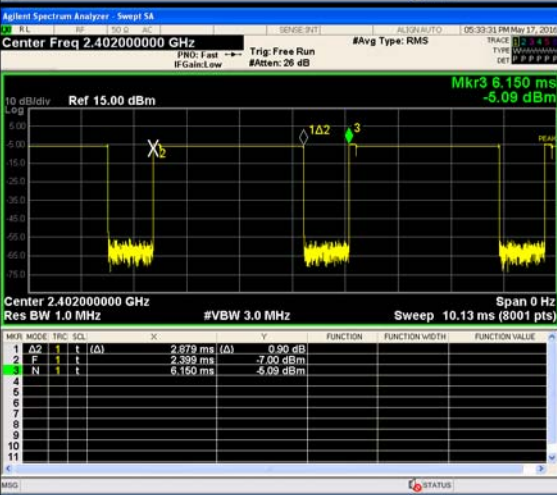


GFSK/HCH

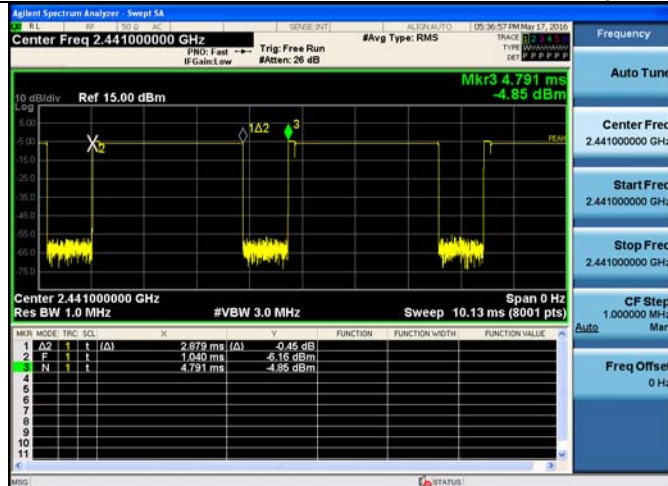


$\pi/4$ DQPSK/LCH

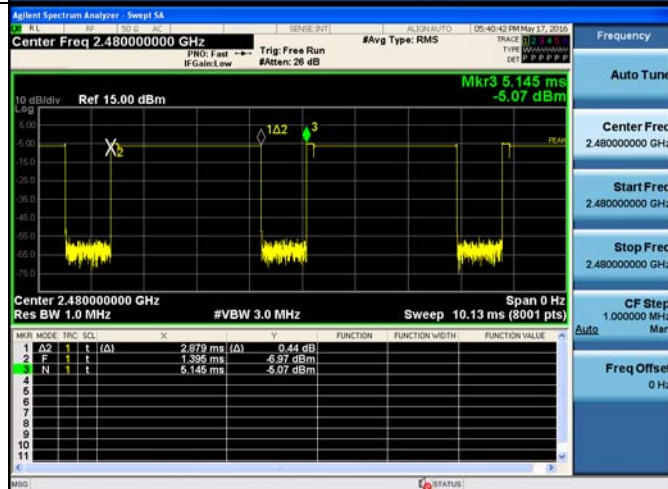


$\pi/4$DQPSK/MCH		Frequency Auto Tune Center Freq 2.441000000 GHz Start Freq 2.441000000 GHz Stop Freq 2.441000000 GHz CF Step 1.000000 MHz Freq Offset 0 Hz
$\pi/4$DQPSK/HCH		Frequency Auto Tune Center Freq 2.480000000 GHz Start Freq 2.480000000 GHz Stop Freq 2.480000000 GHz CF Step 1.000000 MHz Freq Offset 0 Hz
8DPSK/LCH		Frequency Auto Tune Center Freq 2.402000000 GHz Start Freq 2.402000000 GHz Stop Freq 2.402000000 GHz CF Step 1.000000 MHz Freq Offset 0 Hz

8DPSK/MCH



8DPSK/HCH

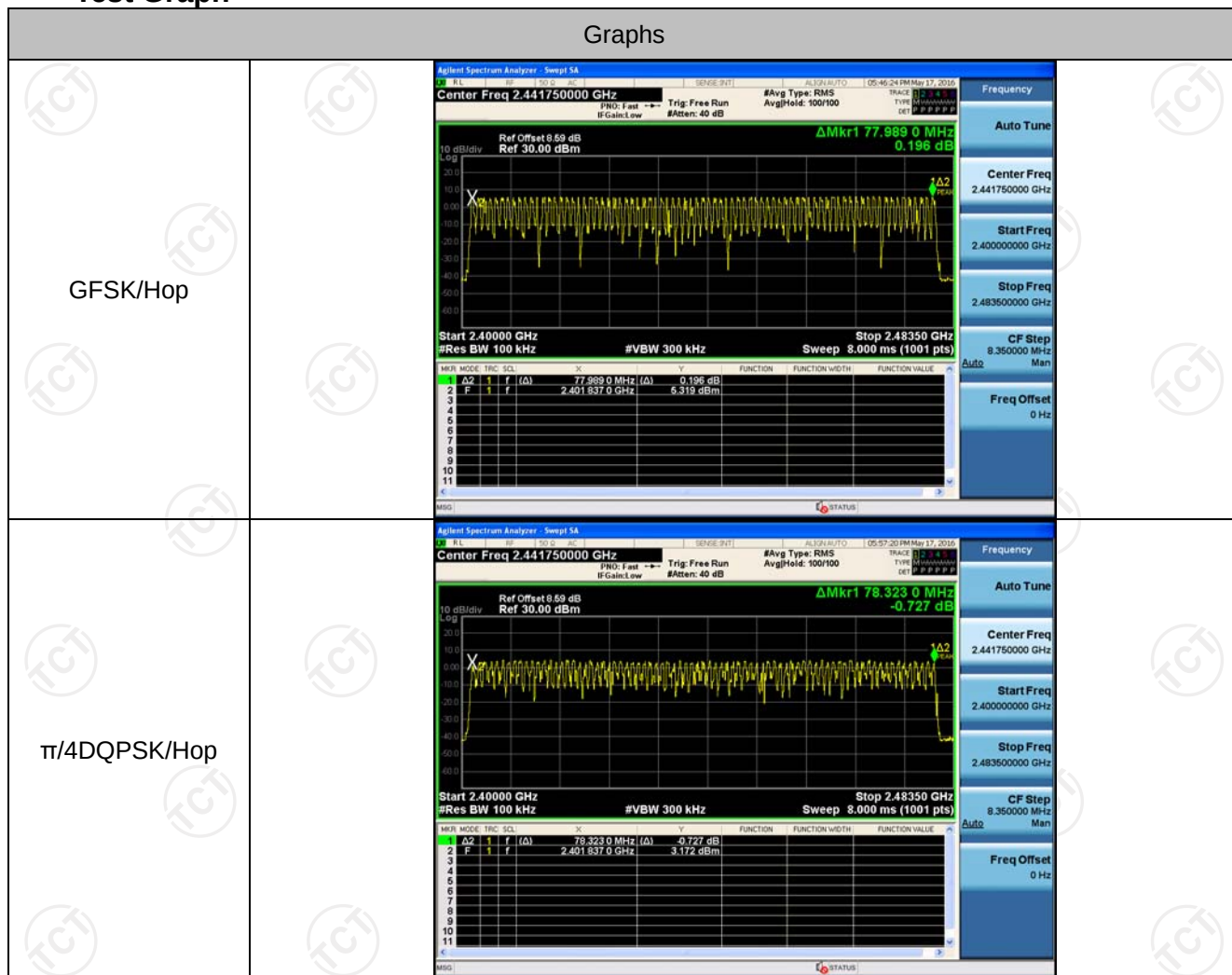


Hopping Channel Number

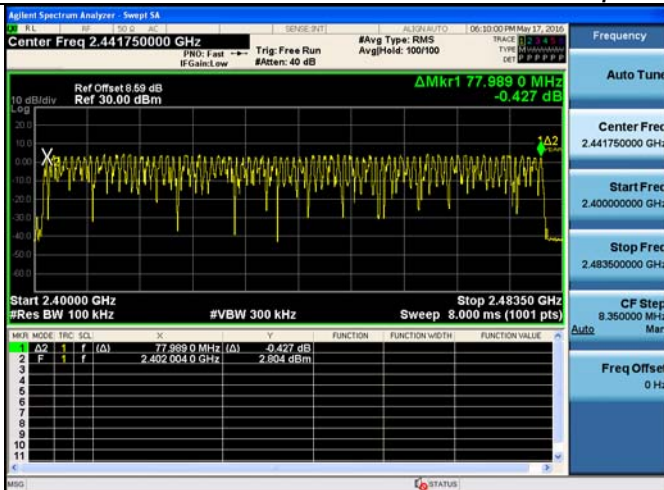
Result Table

Mode	Channel.	Number of Hopping Channel	Verdict
GFSK	Hop	79	PASS
$\pi/4$ DQPSK	Hop	79	PASS
8DPSK	Hop	79	PASS

Test Graph



8DPSK/Hop



Conducted Peak Output Power

Result Table

Mode	Channel.	Maximum Peak Output Power [dBm]	Verdict
GFSK	LCH	5.264	PASS
GFSK	MCH	5.660	PASS
GFSK	HCH	5.714	PASS
$\pi/4$ DQPSK	LCH	4.477	PASS
$\pi/4$ DQPSK	MCH	4.481	PASS
$\pi/4$ DQPSK	HCH	4.383	PASS
8DPSK	LCH	4.513	PASS
8DPSK	MCH	4.459	PASS
8DPSK	HCH	4.342	PASS

Test Graph



GFSK/HCH



$\pi/4$ DQPSK/LCH



$\pi/4$ DQPSK/MCH



$\pi/4$ DQPSK/HCH



8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

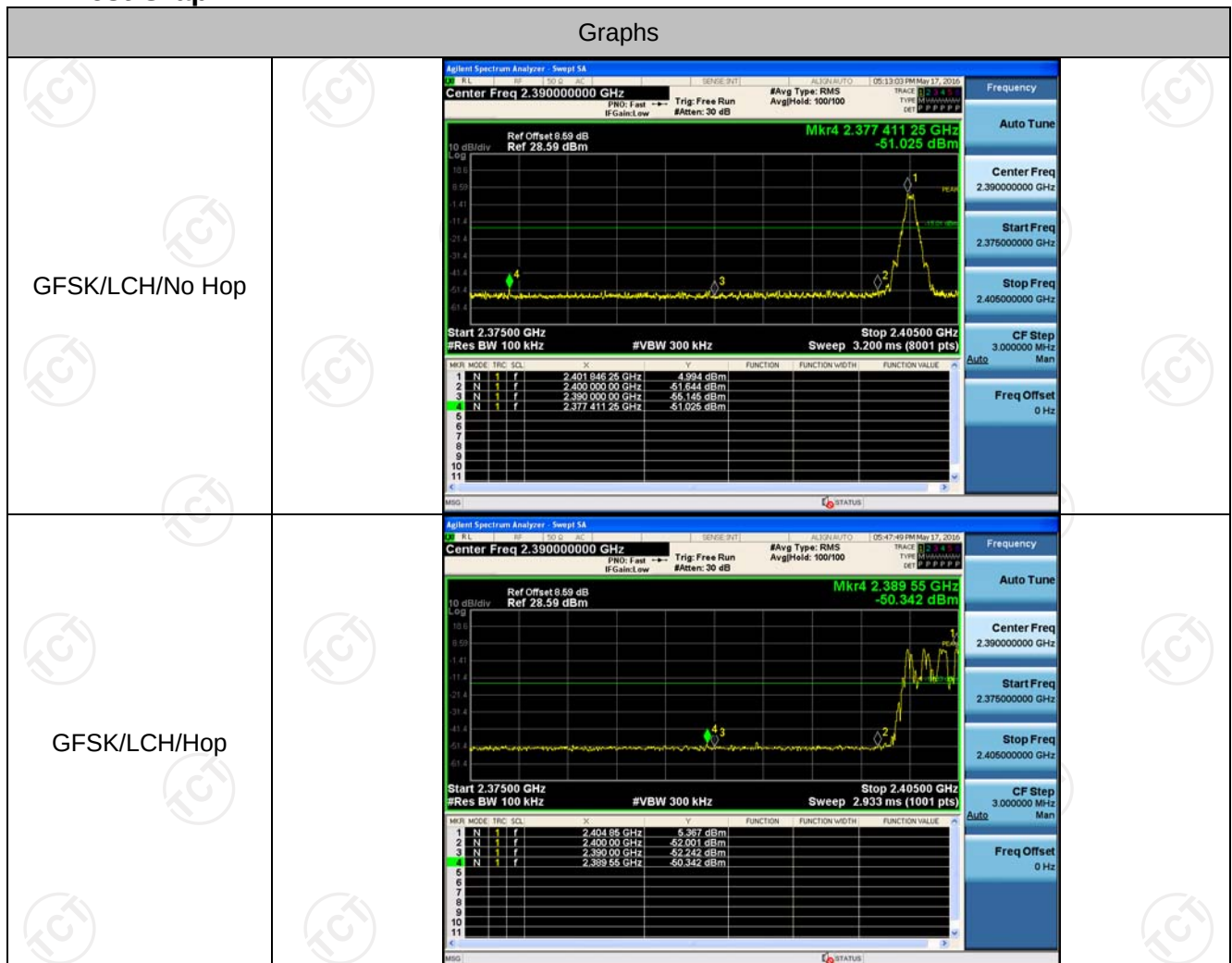


Band-edge for RF Conducted Emissions

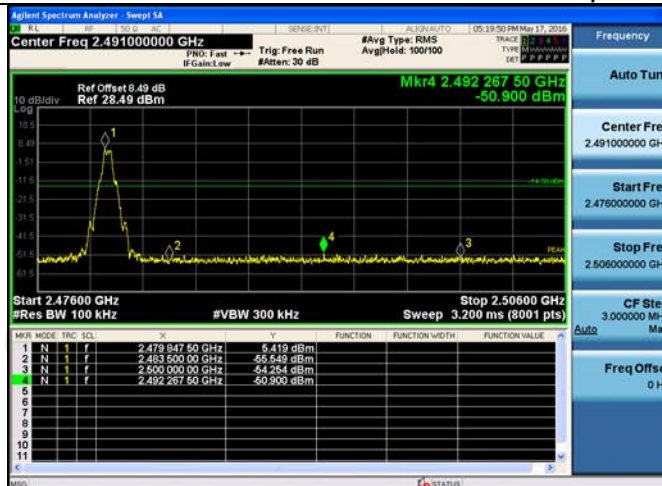
Result Table

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	4.994	Off	-51.025	-15.01	PASS
			5.367	On	-50.342	-14.63	PASS
GFSK	HCH	2480	5.419	Off	-50.900	-14.58	PASS
			5.476	On	-50.900	-14.52	PASS
$\pi/4$ DQPSK	LCH	2402	3.452	Off	-51.628	-16.55	PASS
			3.782	On	-50.198	-16.22	PASS
$\pi/4$ DQPSK	HCH	2480	3.667	Off	-50.876	-16.33	PASS
			3.541	On	-50.304	-16.46	PASS
8DPSK	LCH	2402	3.824	Off	-51.026	-16.18	PASS
			3.619	On	-50.687	-16.38	PASS
8DPSK	HCH	2480	3.704	Off	-51.436	-16.3	PASS
			3.727	On	-49.819	-16.27	PASS

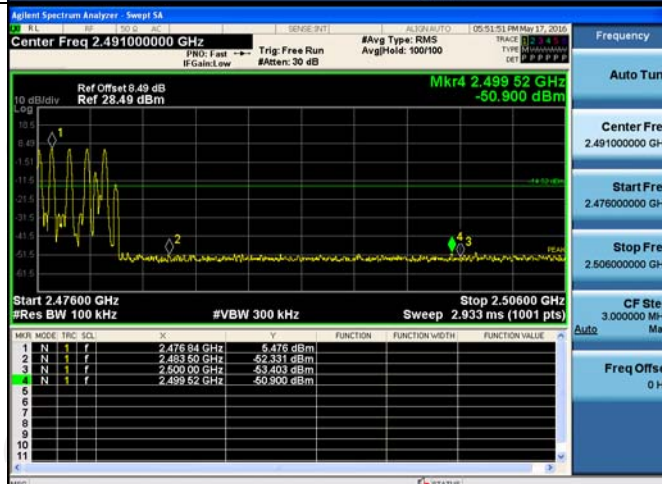
Test Graph



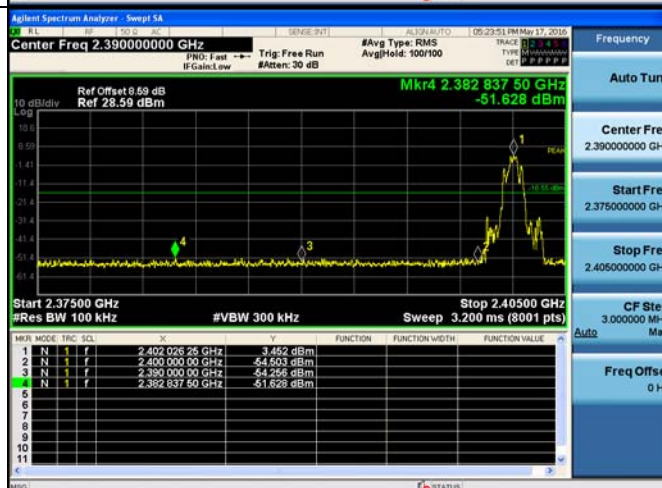
GFSK/HCH/No Hop



GFSK/HCH/Hop



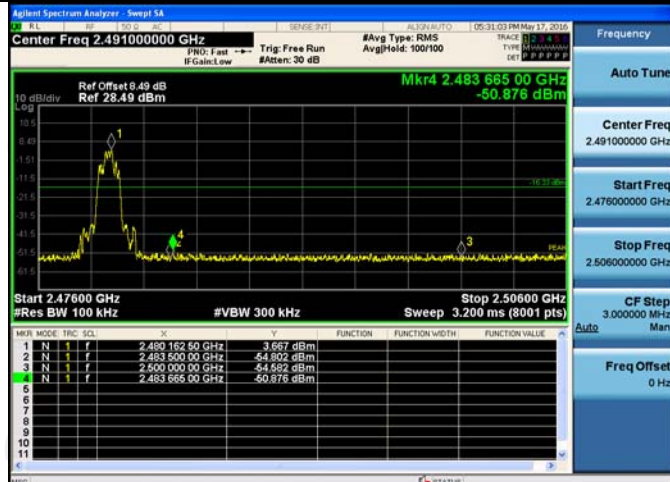
$\pi/4$ DQPSK/LCH/No Hop



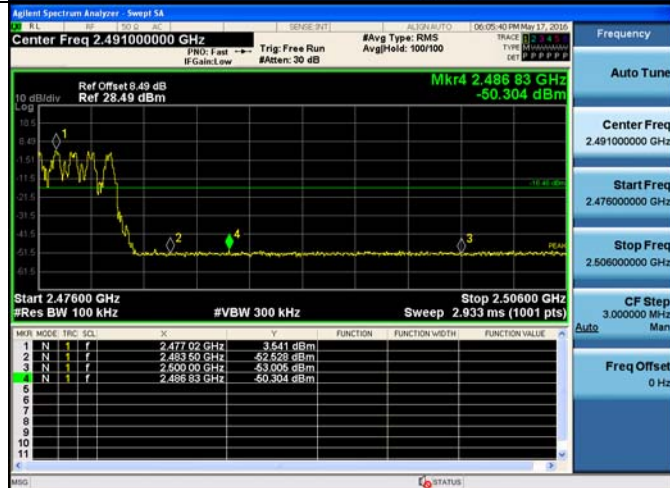
$\pi/4$ DQPSK/LCH/Hop



$\pi/4$ DQPSK/HCH/No Hop



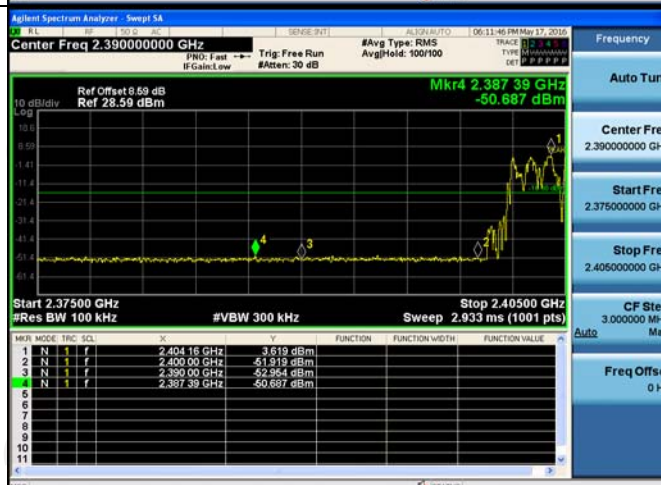
$\pi/4$ DQPSK/HCH/Hop



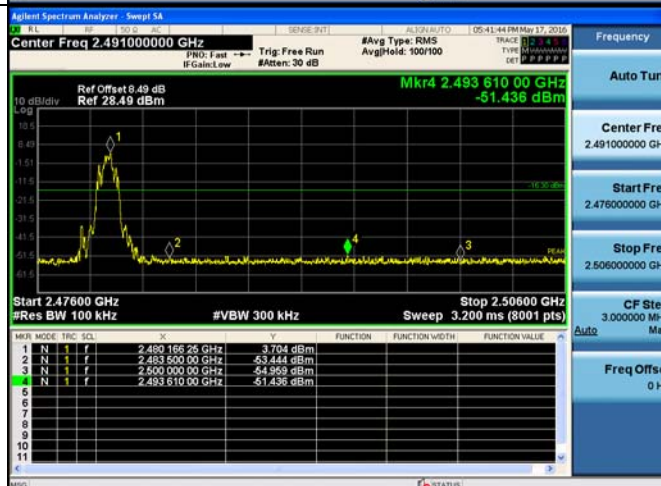
8DPSK/LCH/No Hop



8DPSK/LCH/Hop



8DPSK/HCH/No Hop



8DPSK/HCH/Hop

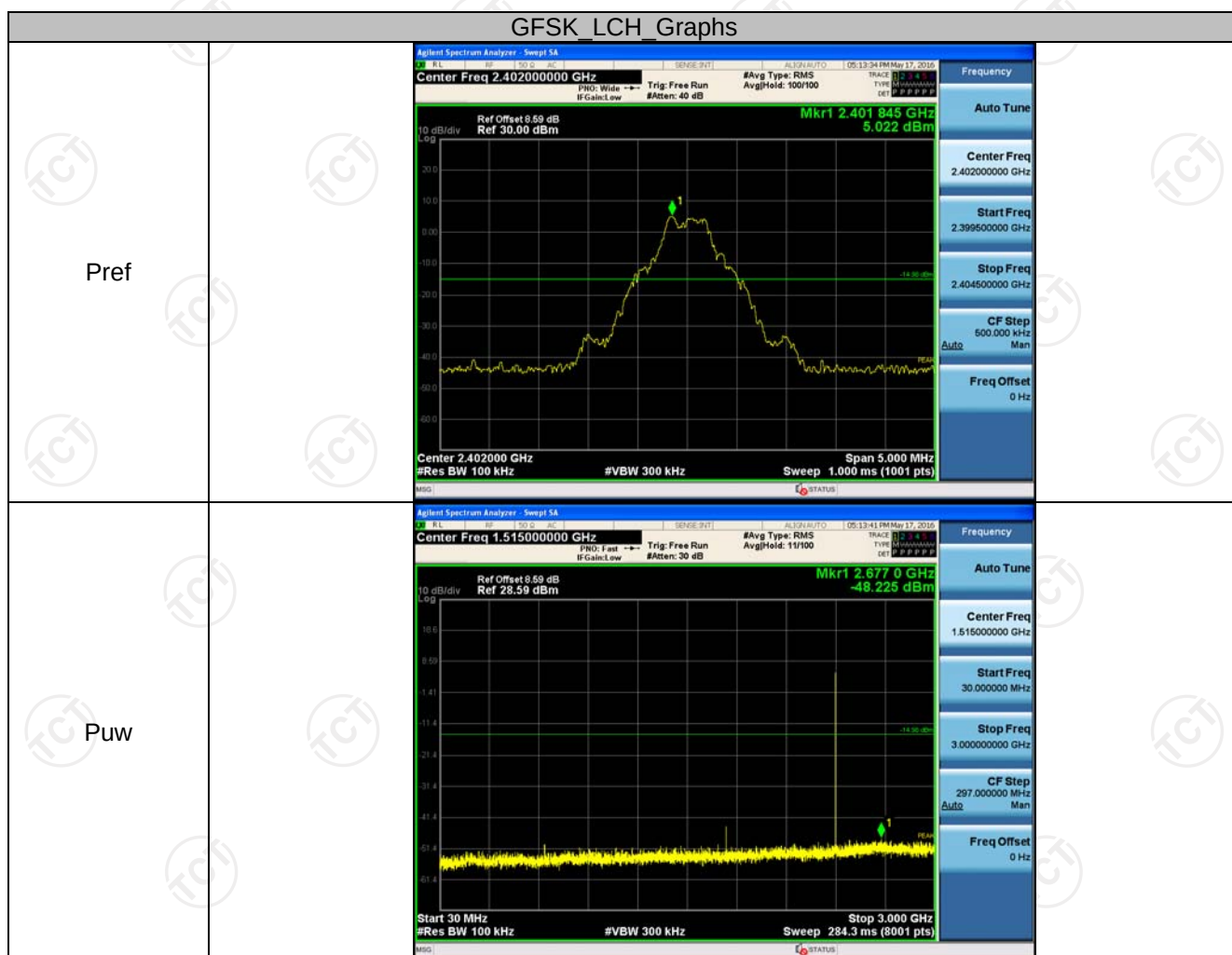


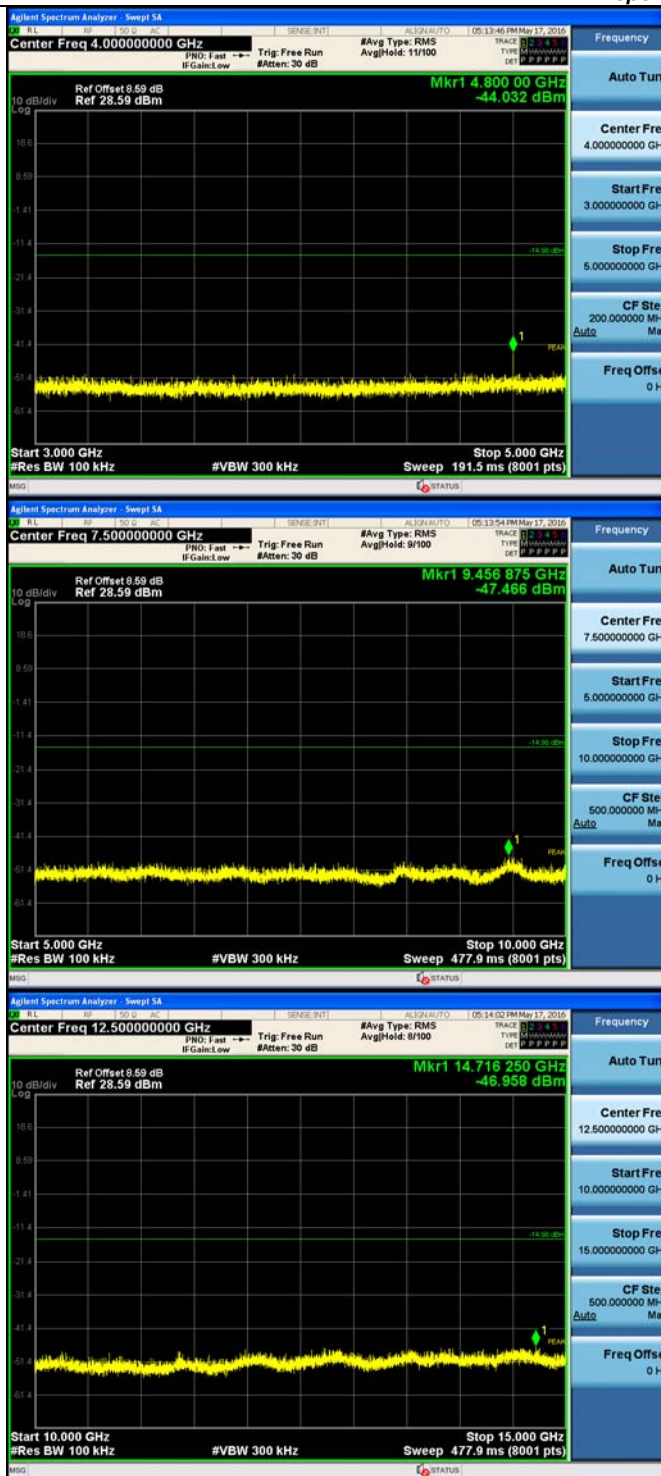
RF Conducted Spurious Emissions

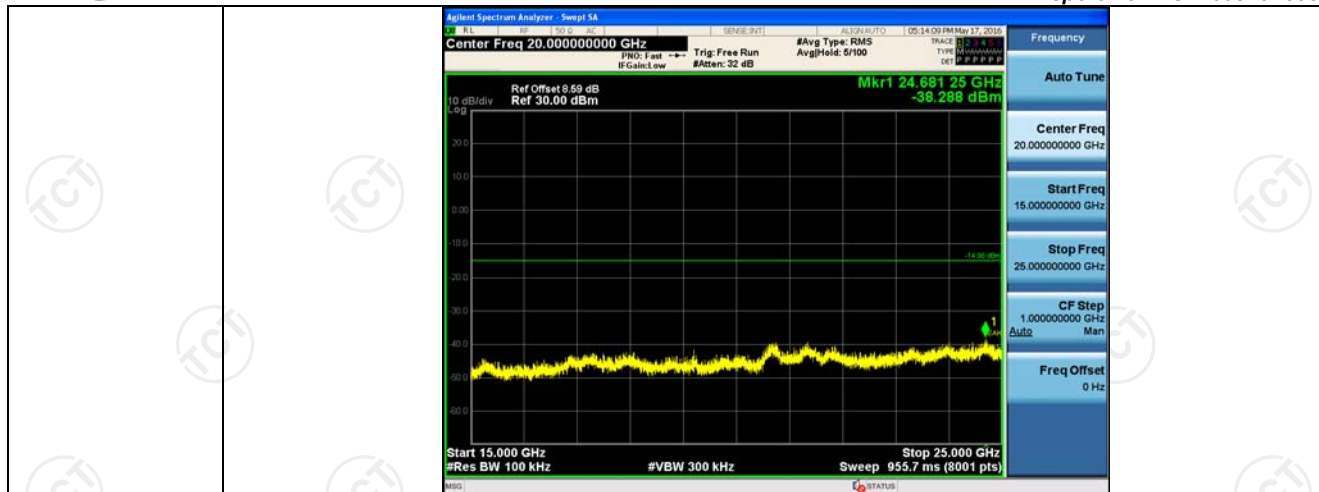
Result Table

Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
GFSK	LCH	5.022	<Limit	PASS
GFSK	MCH	5.421	<Limit	PASS
GFSK	HCH	5.43	<Limit	PASS
$\pi/4$ DQPSK	LCH	3.852	<Limit	PASS
$\pi/4$ DQPSK	MCH	3.868	<Limit	PASS
$\pi/4$ DQPSK	HCH	3.762	<Limit	PASS
8DPSK	LCH	3.948	<Limit	PASS
8DPSK	MCH	3.575	<Limit	PASS
8DPSK	HCH	3.08	<Limit	PASS

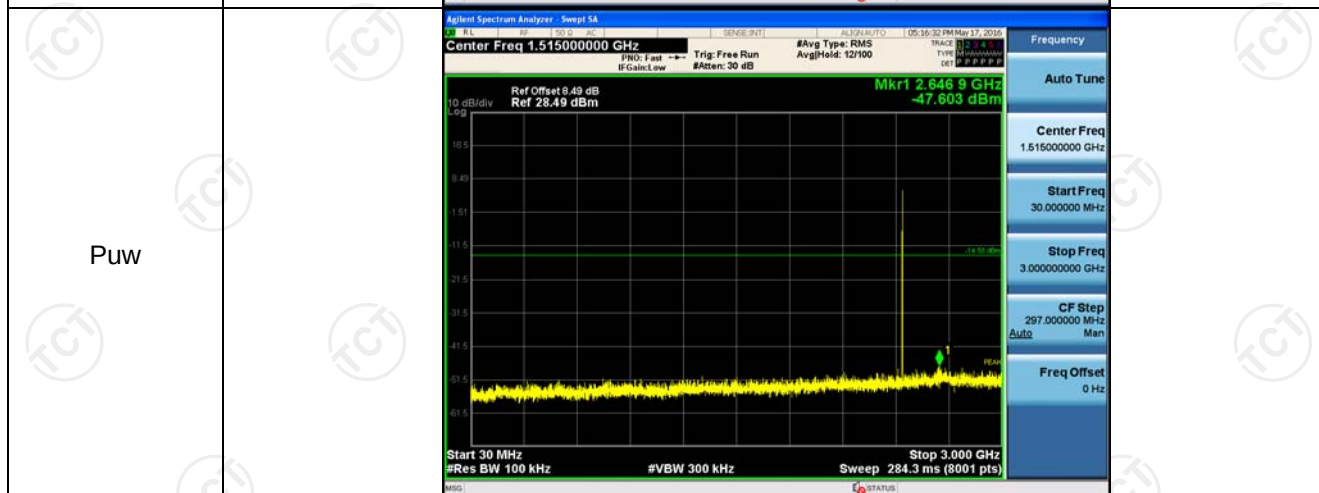
Test Graph

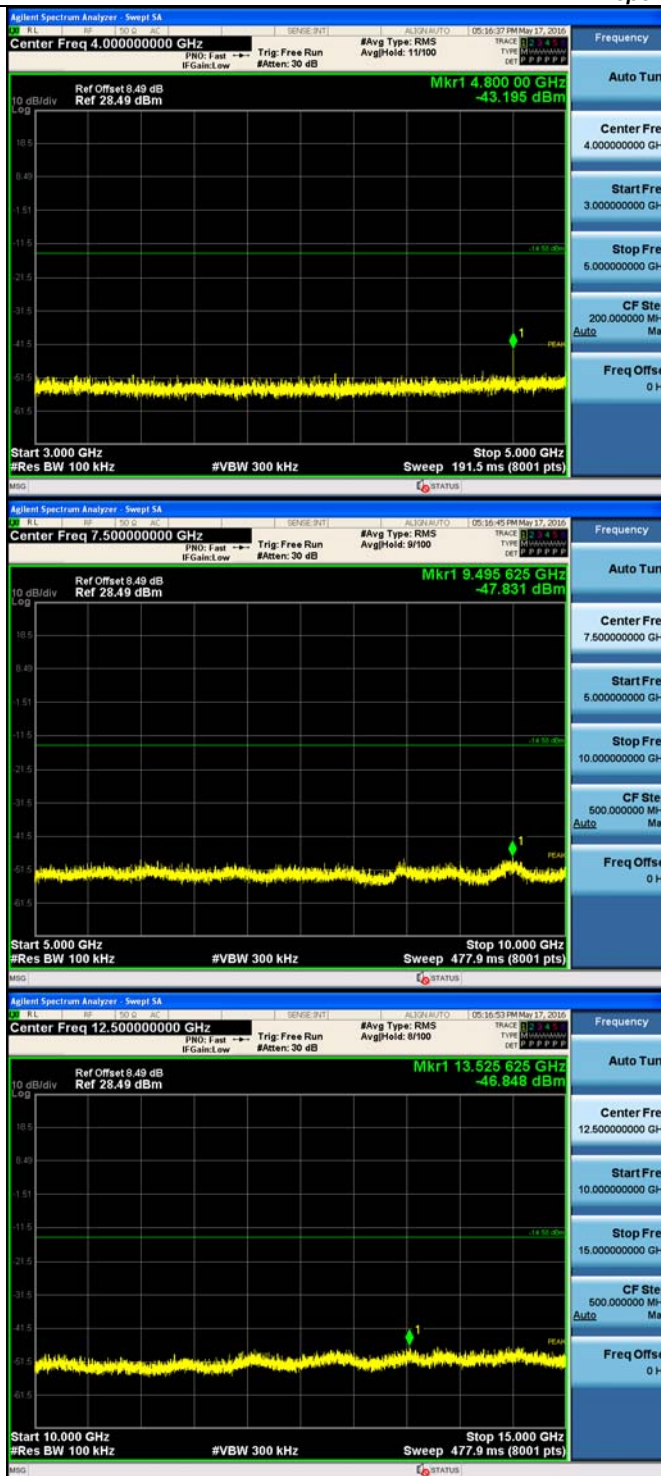


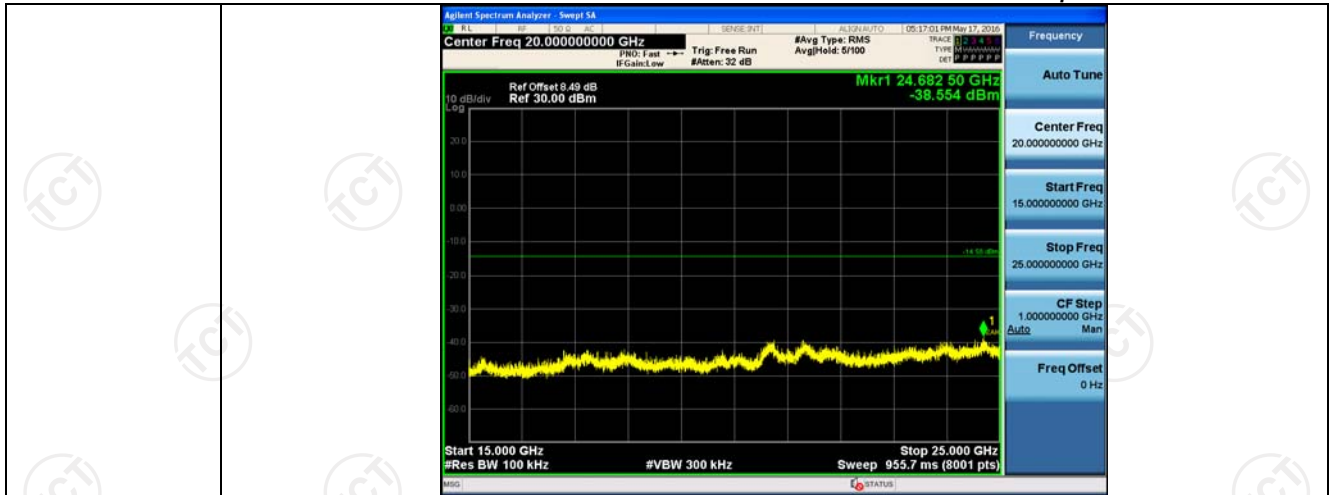




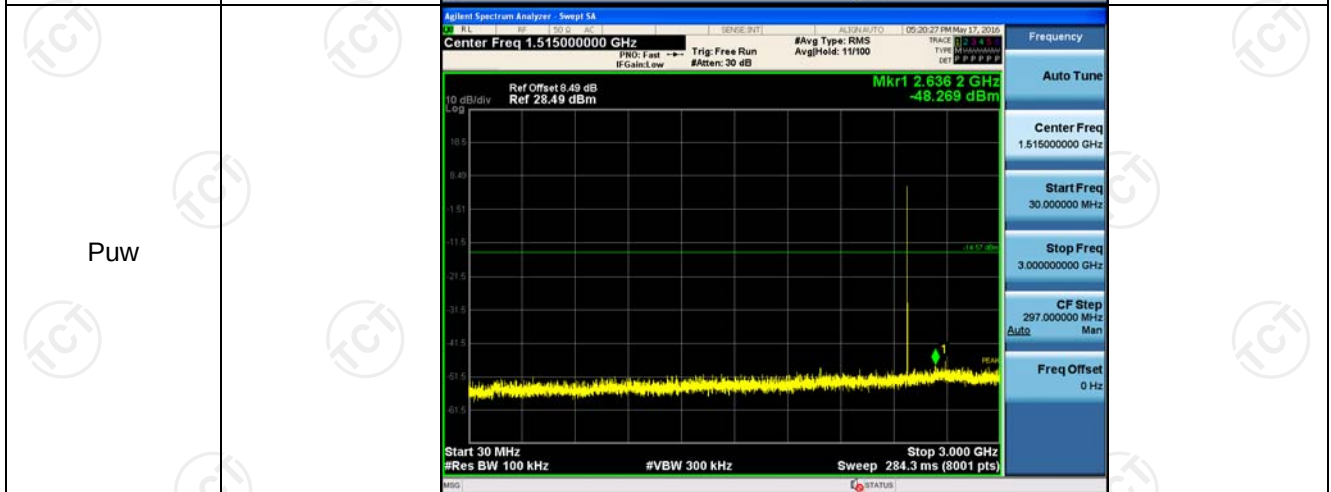
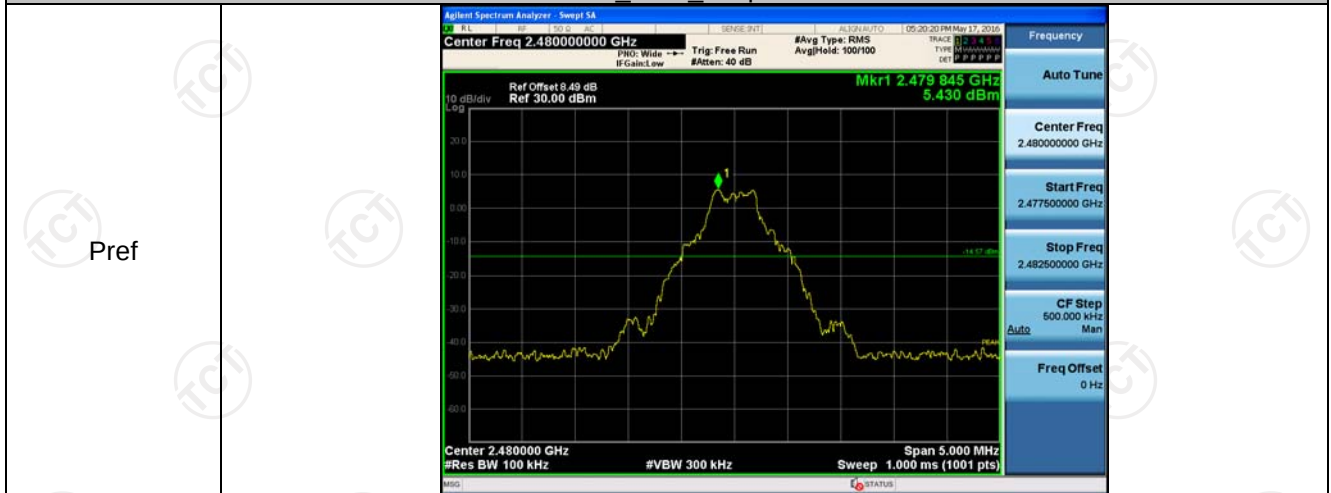
GFSK MCH Graphs

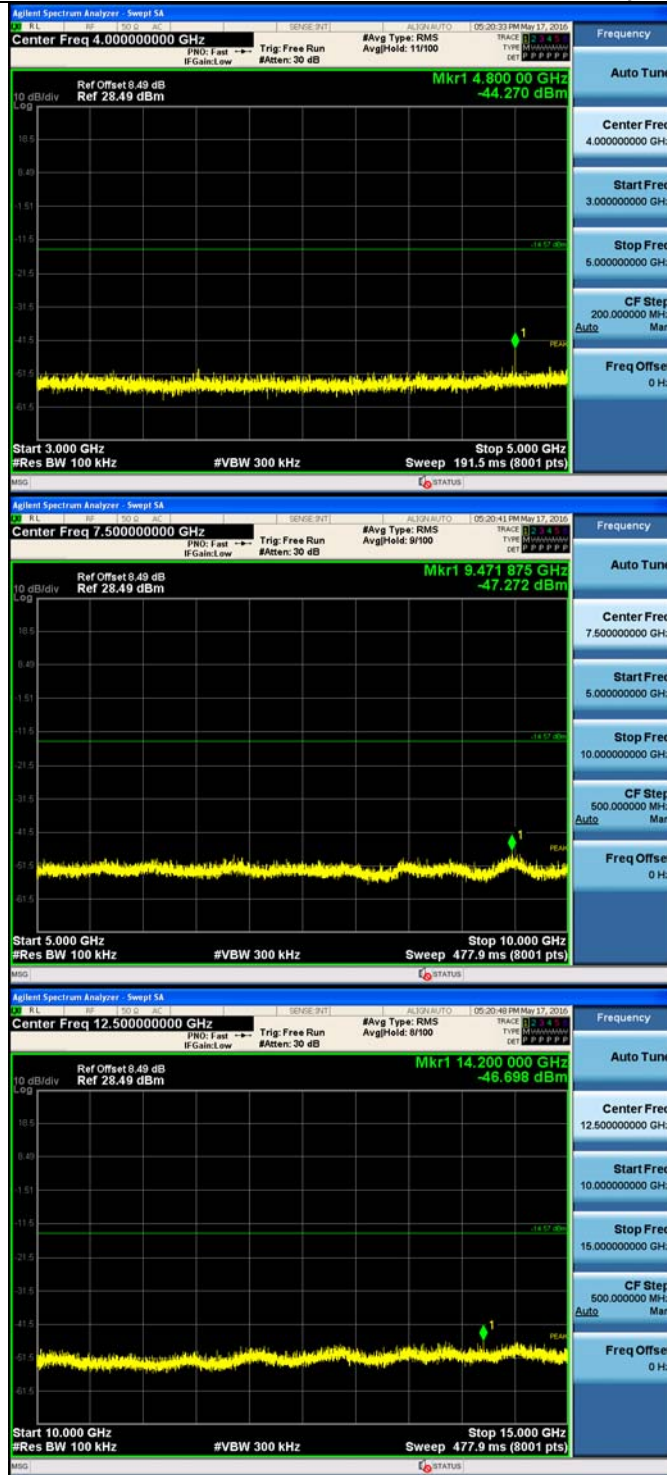


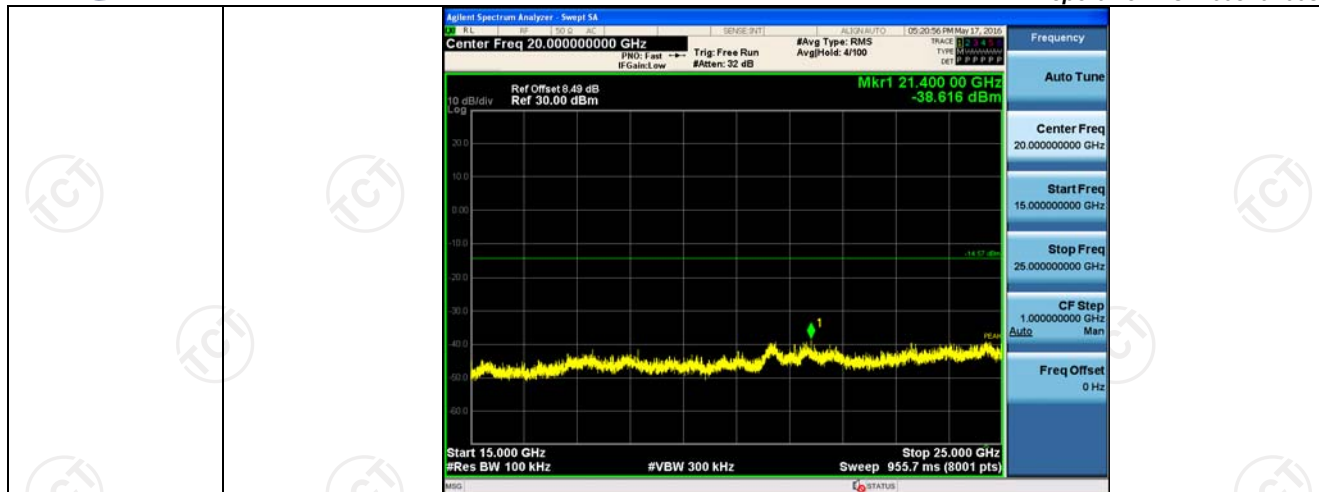




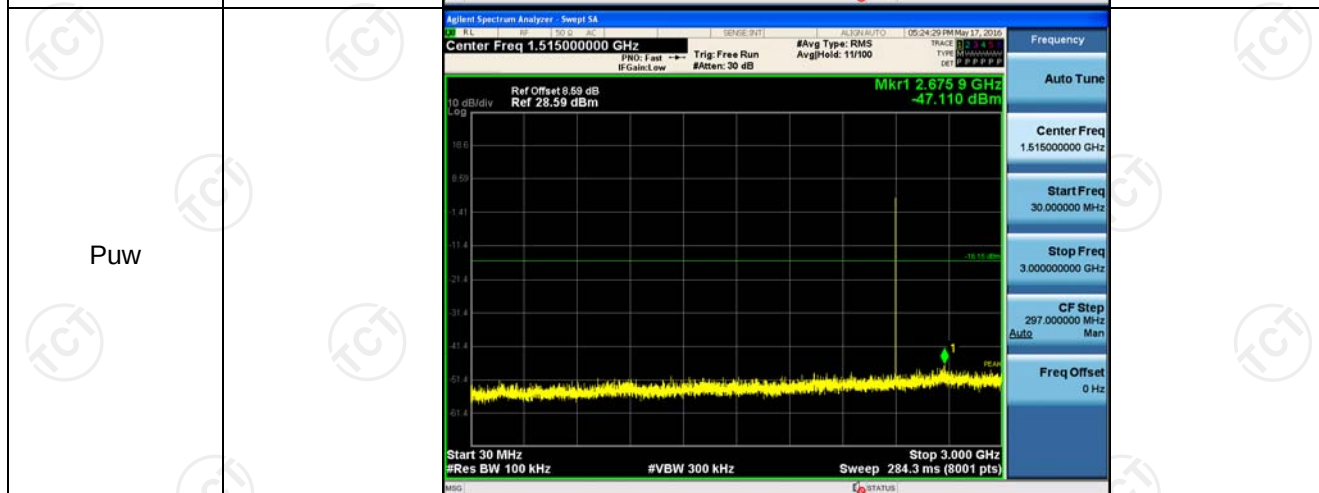
GFSK HCH_Graphs

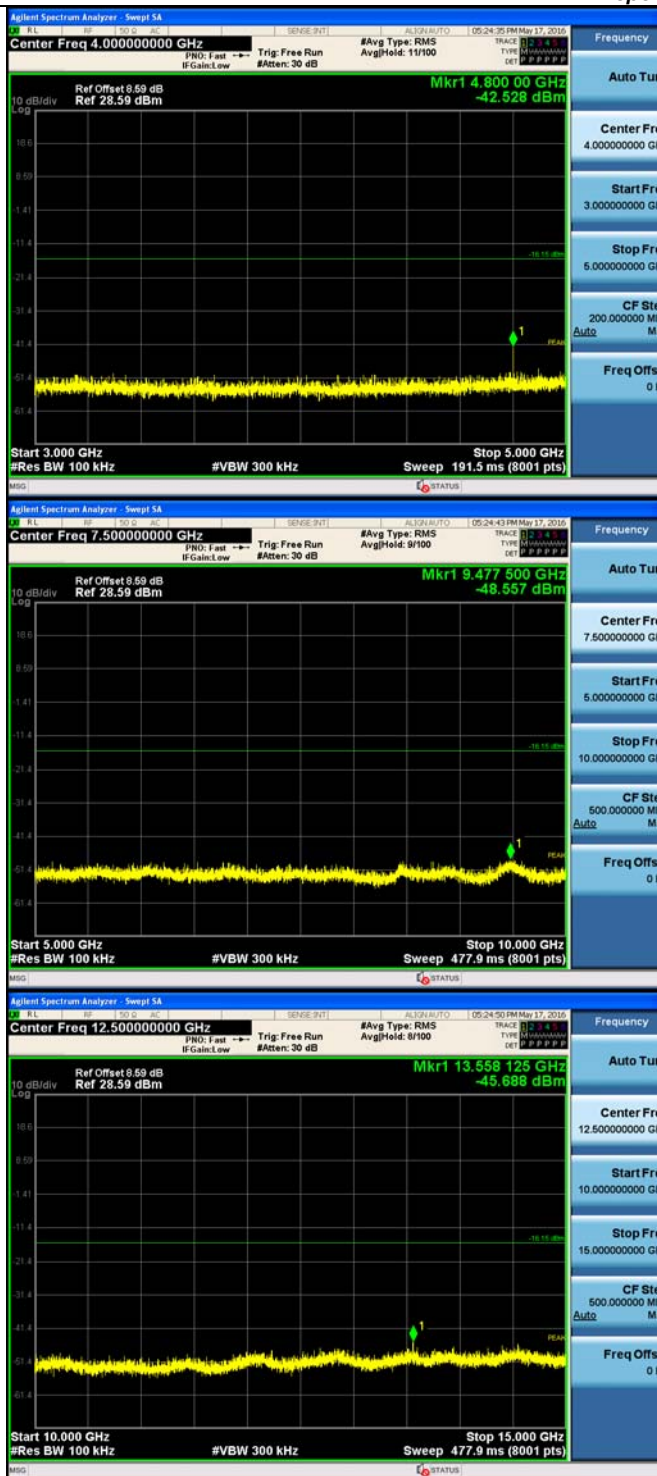


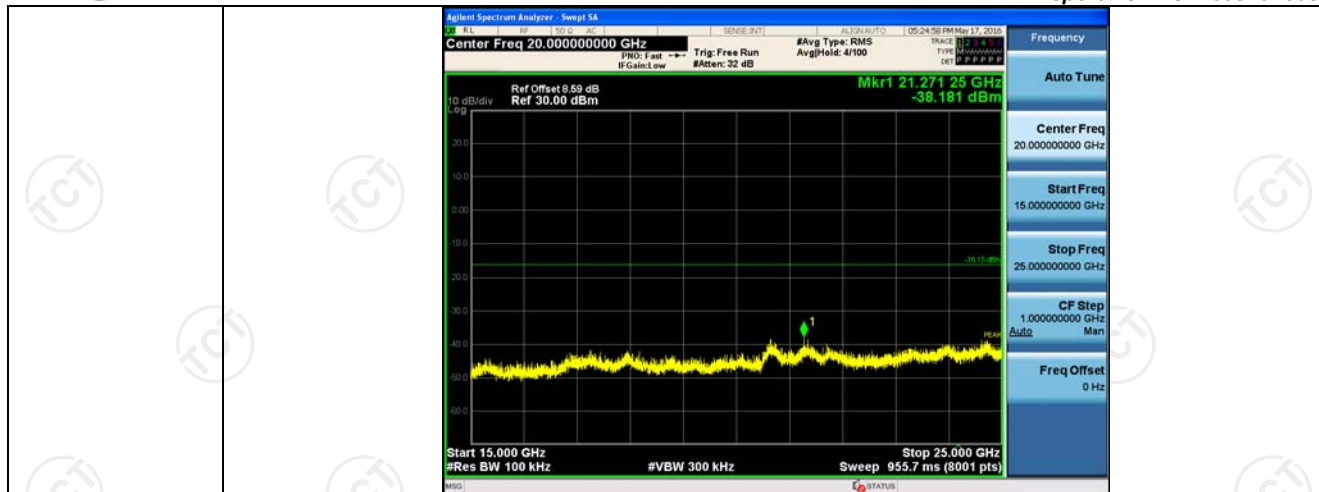




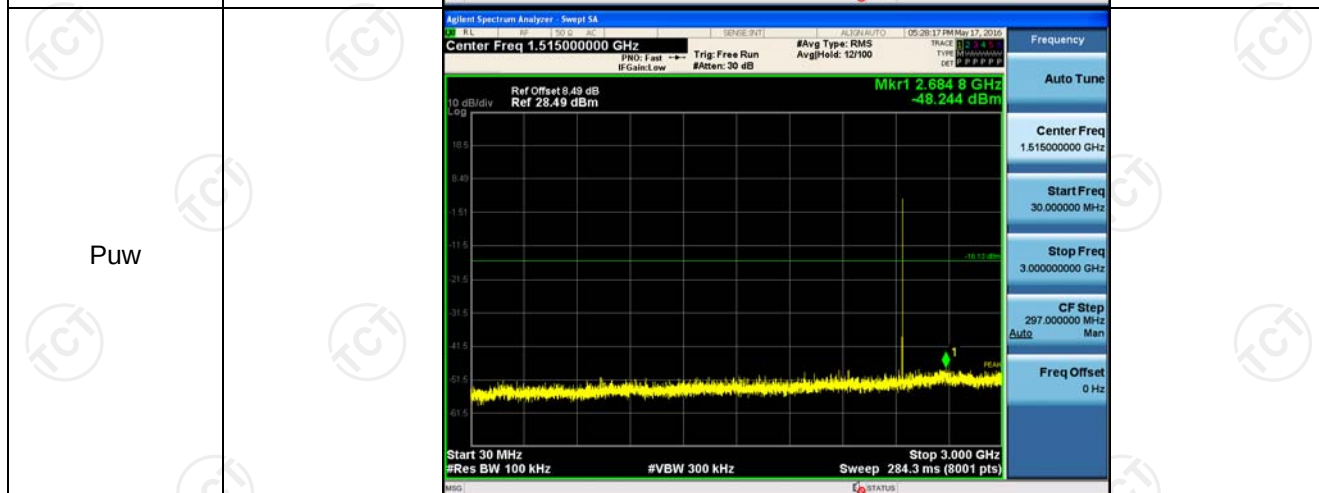
$\pi/4$ DQPSK LCH_Graphs

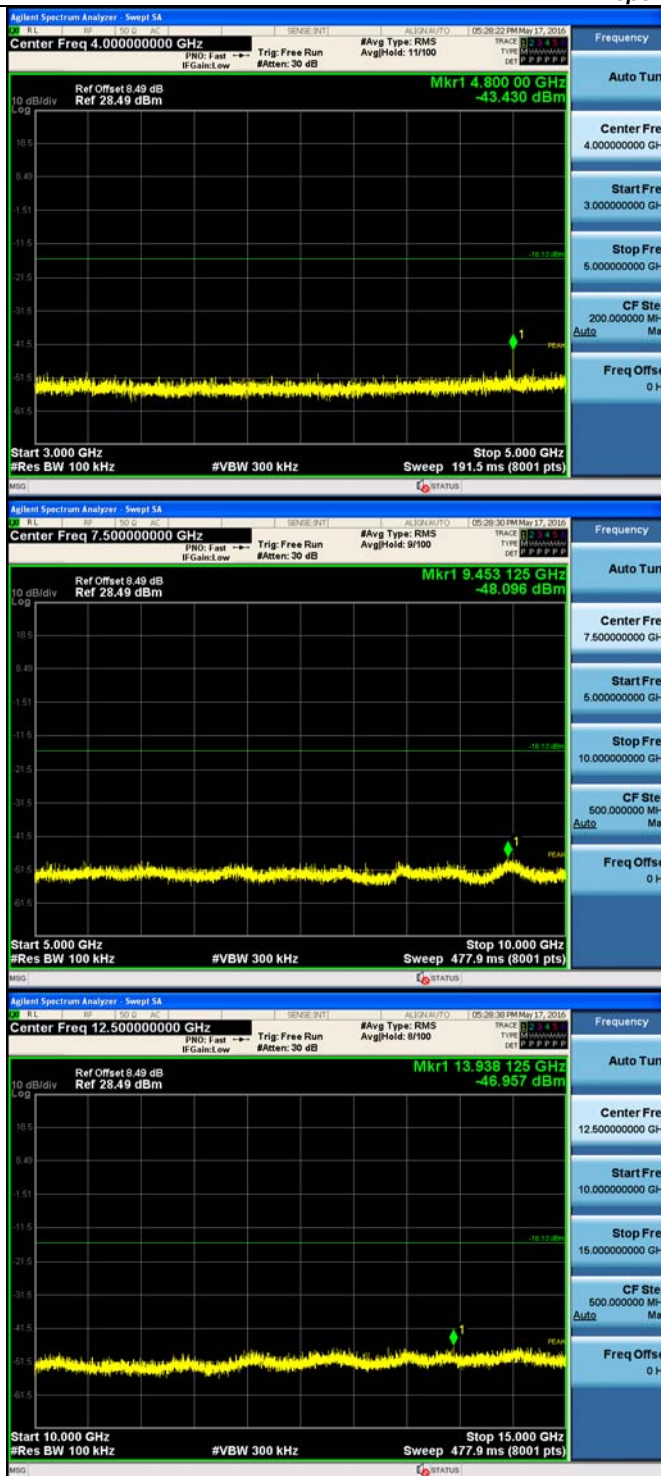


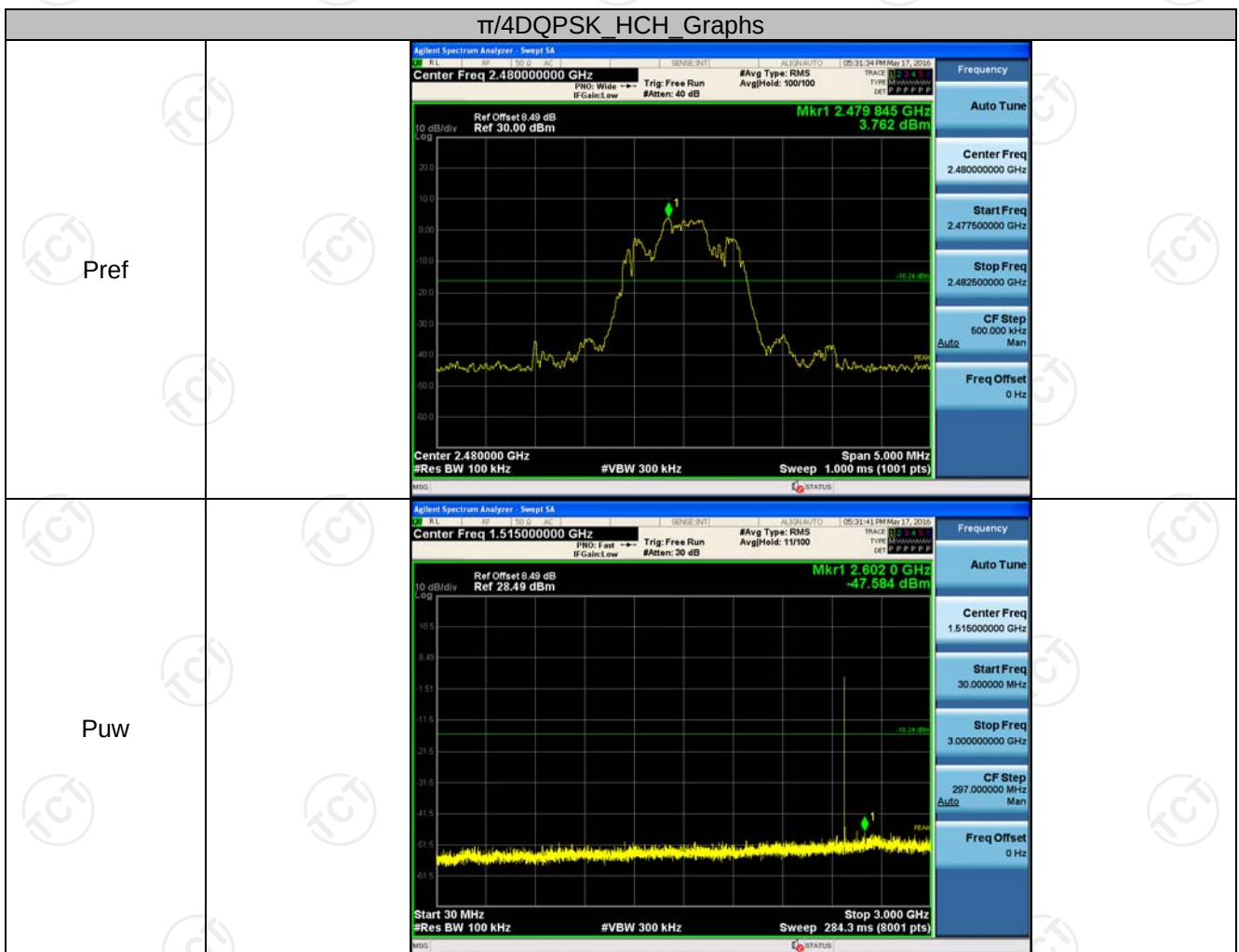
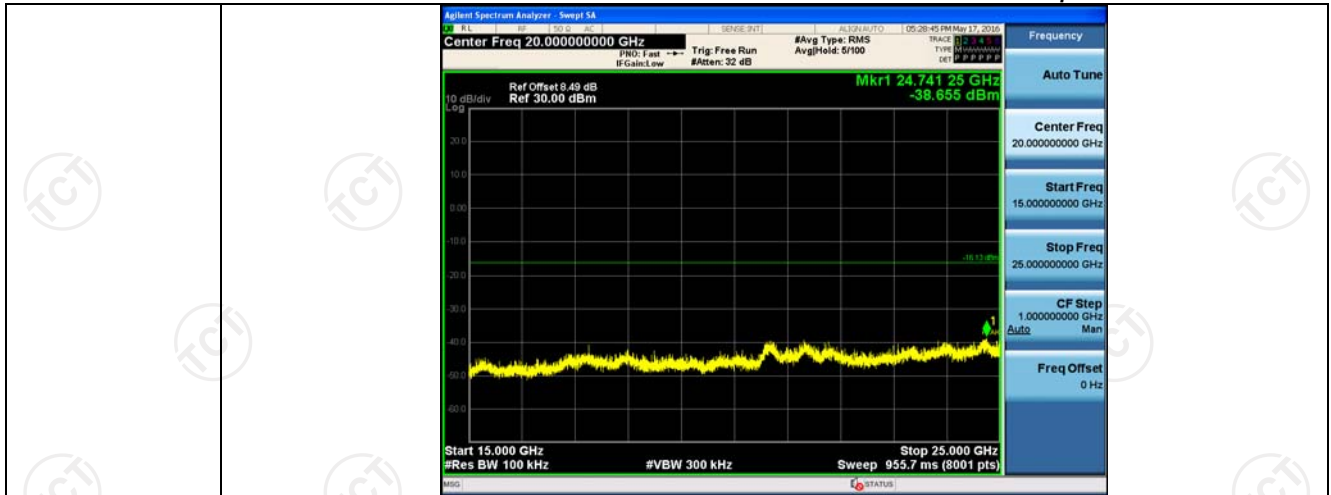


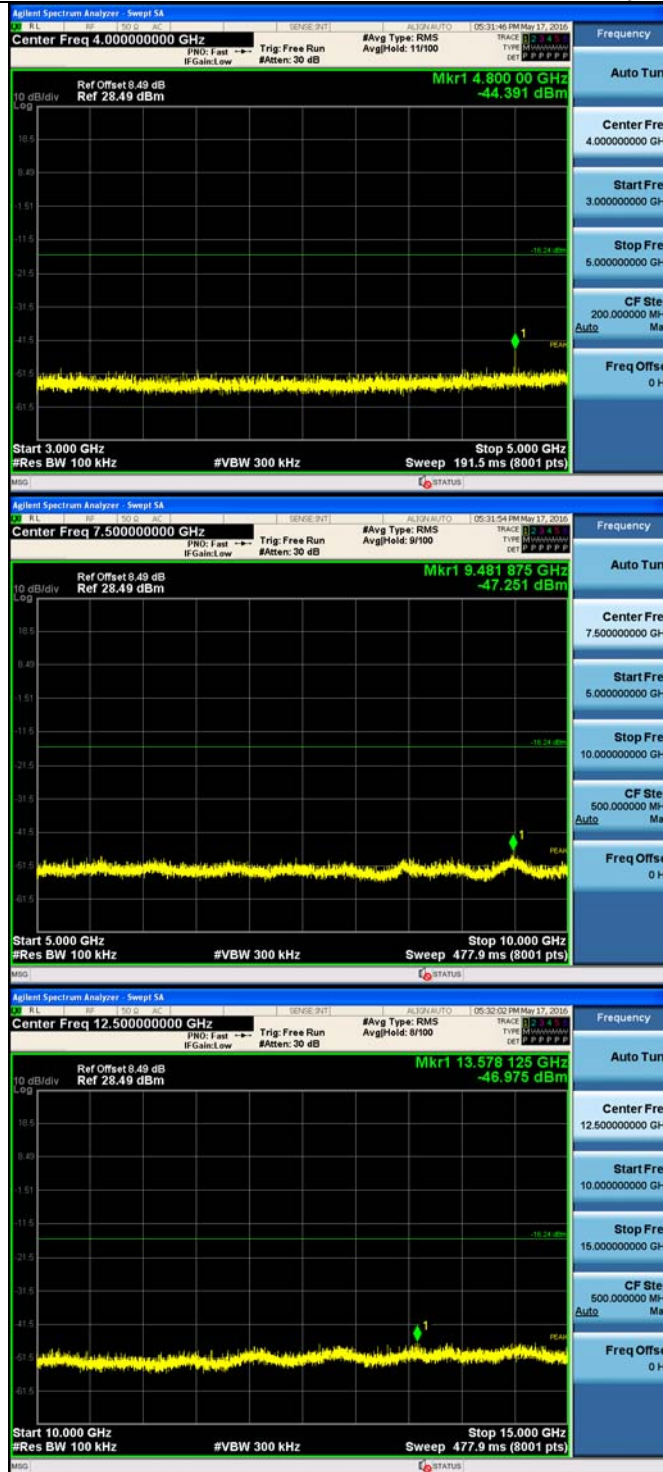


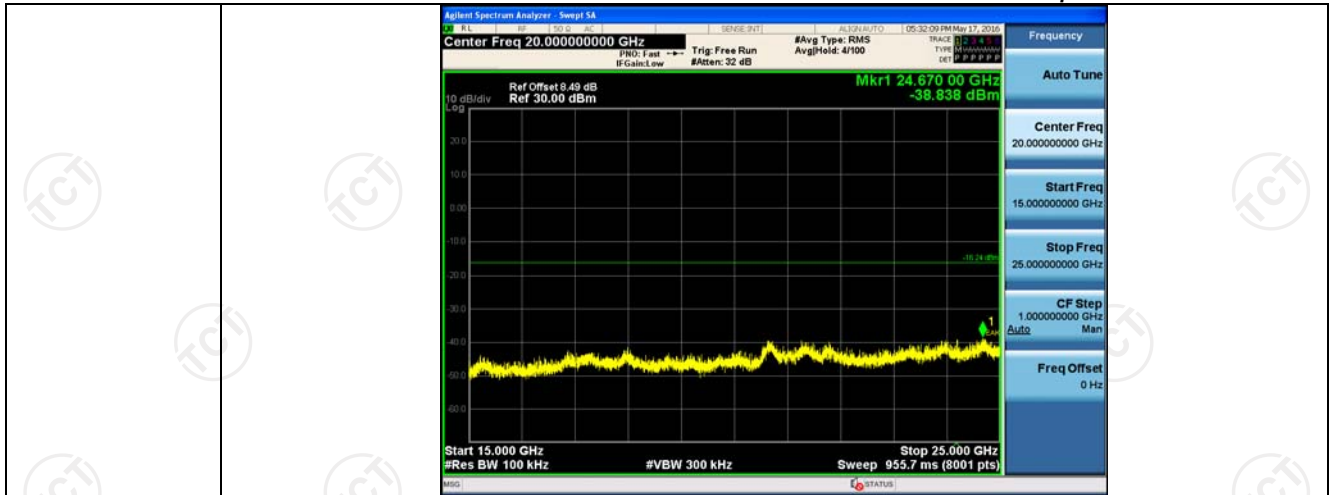
$\pi/4$ DQPSK_MCH_Graphs



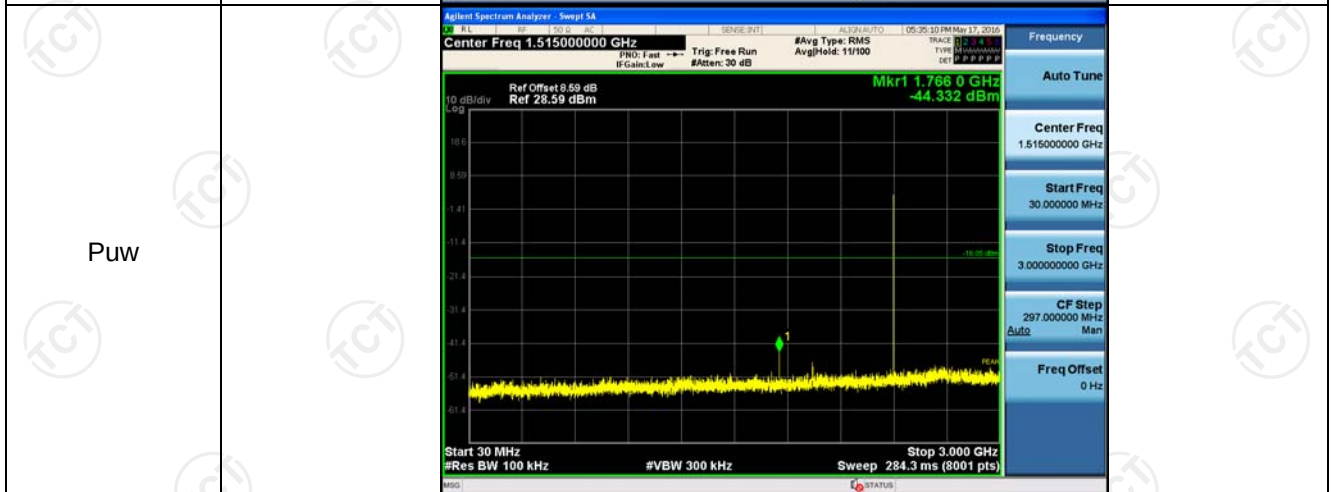


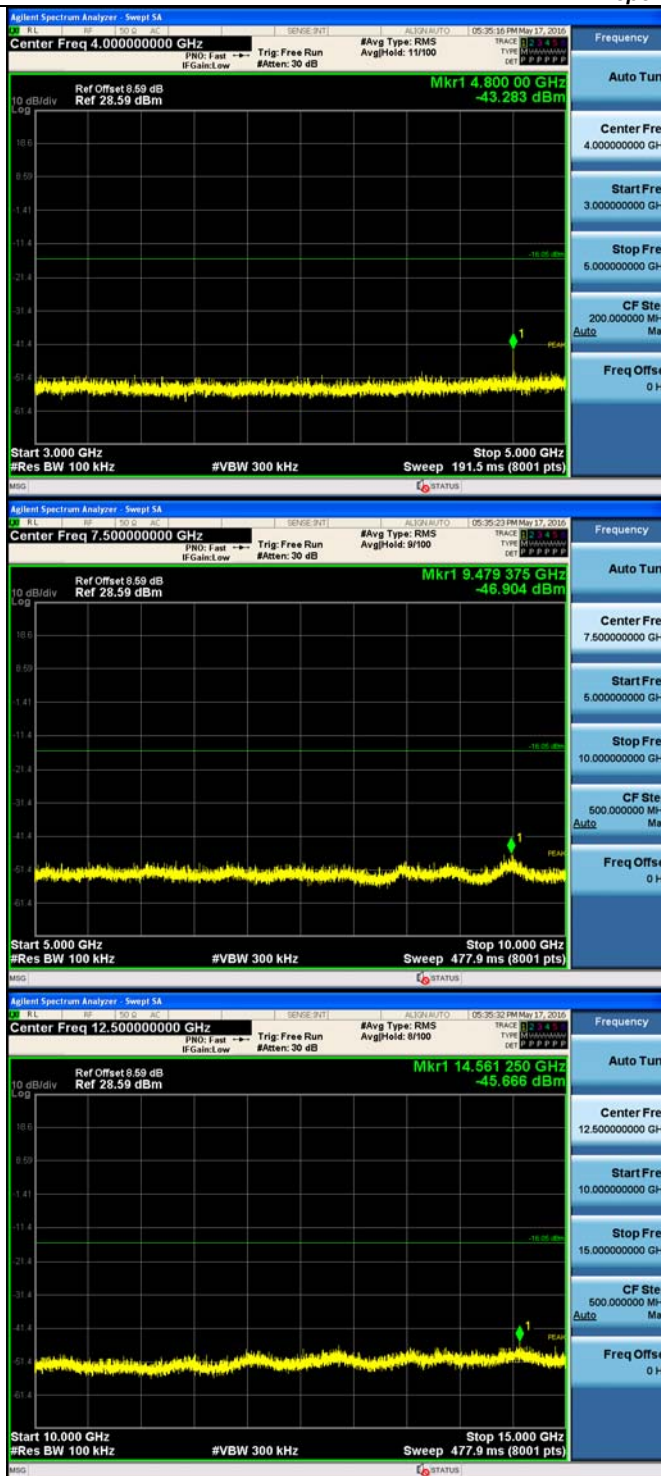


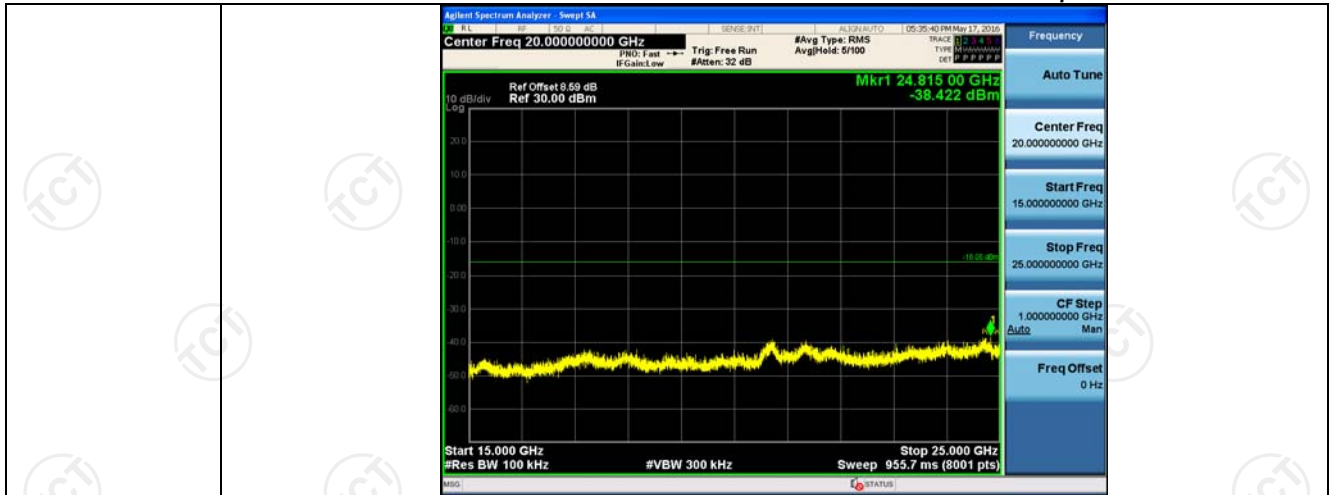




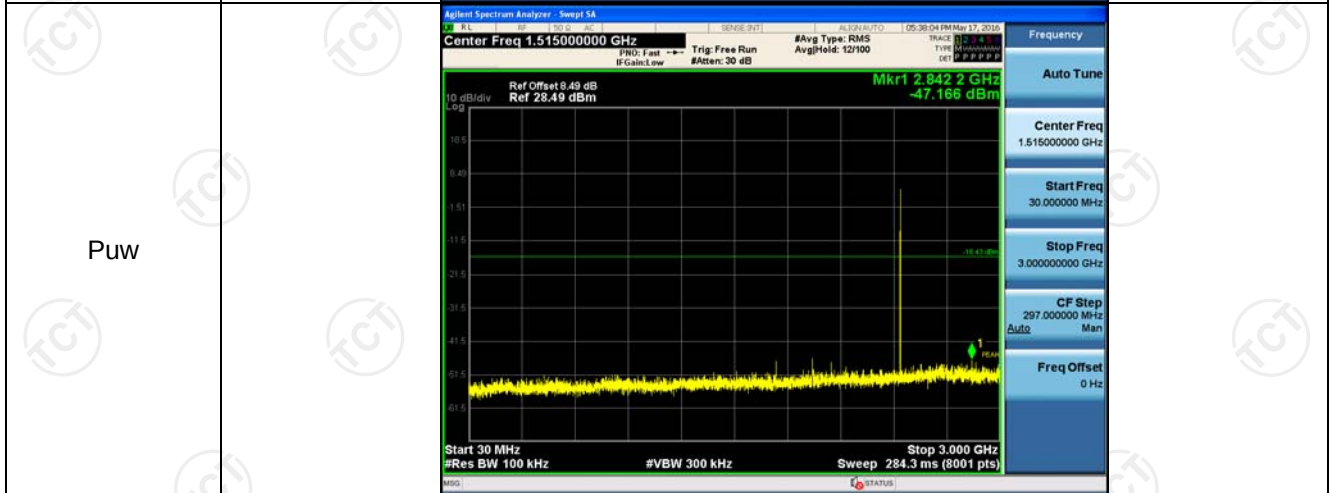
8DPSK LCH Graphs

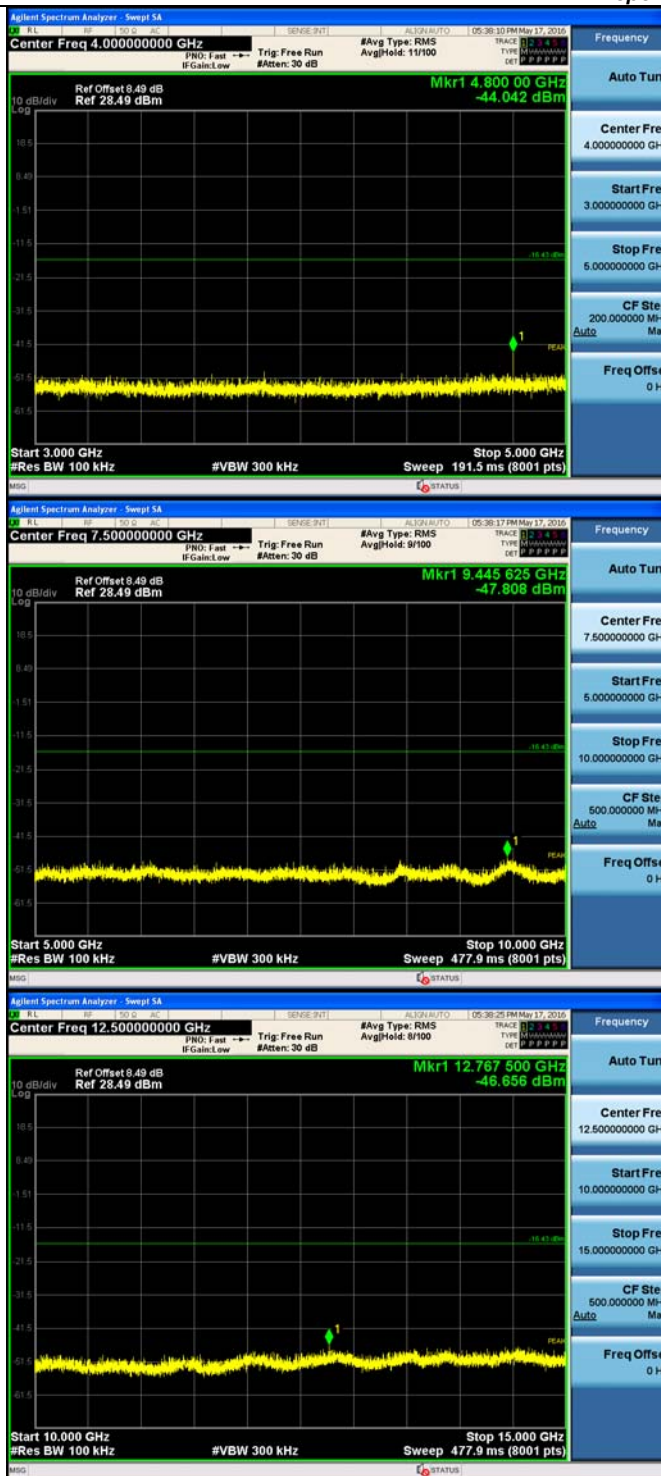


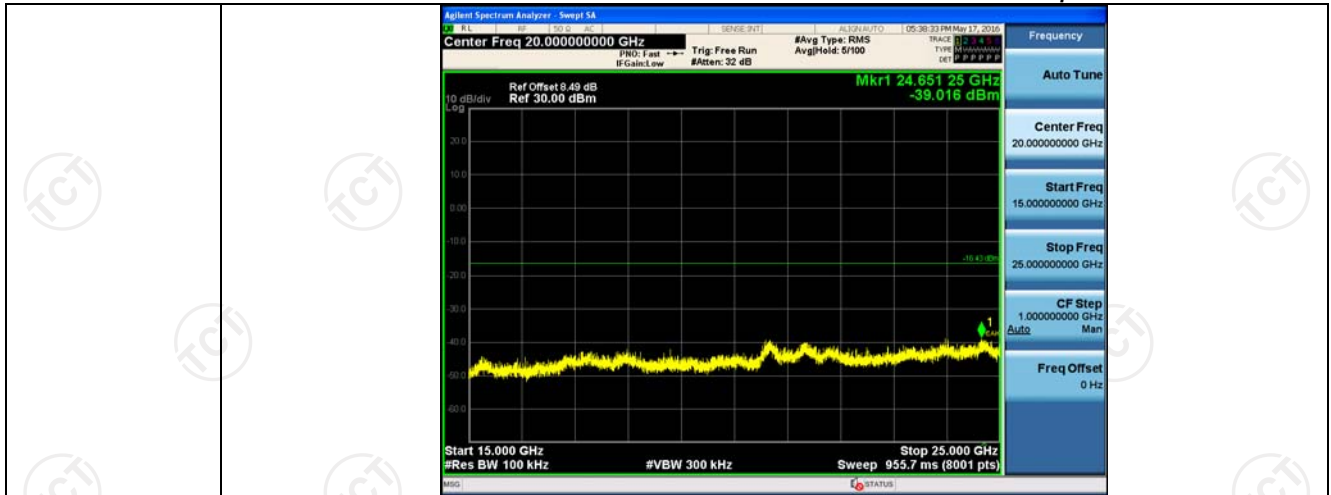




8DPSK MCH Graphs







8DPSK HCH Graphs

