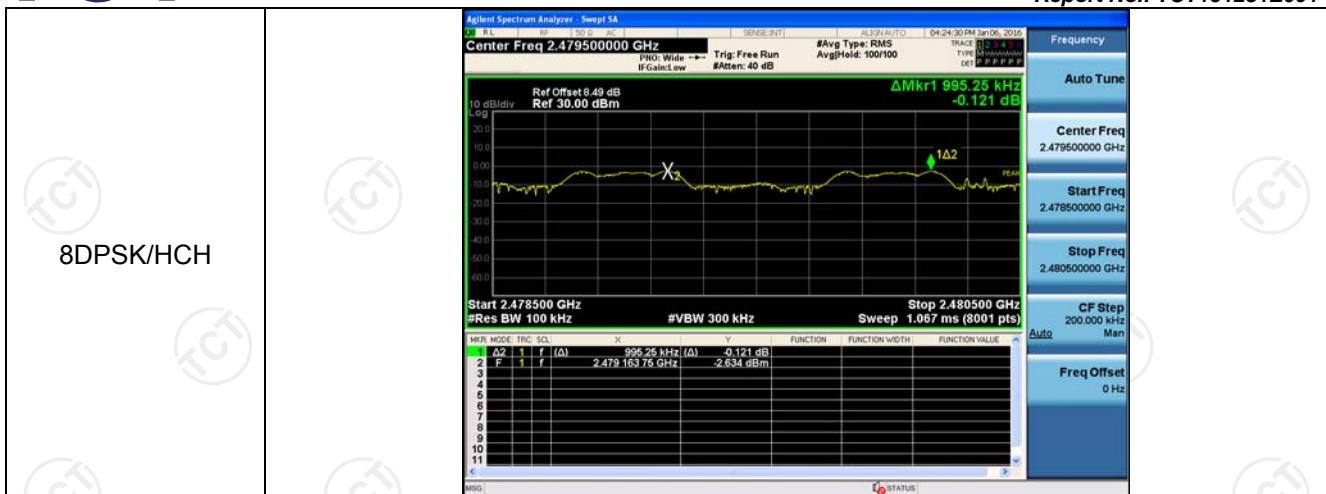


8DPSK/HCH



## Dwell Time

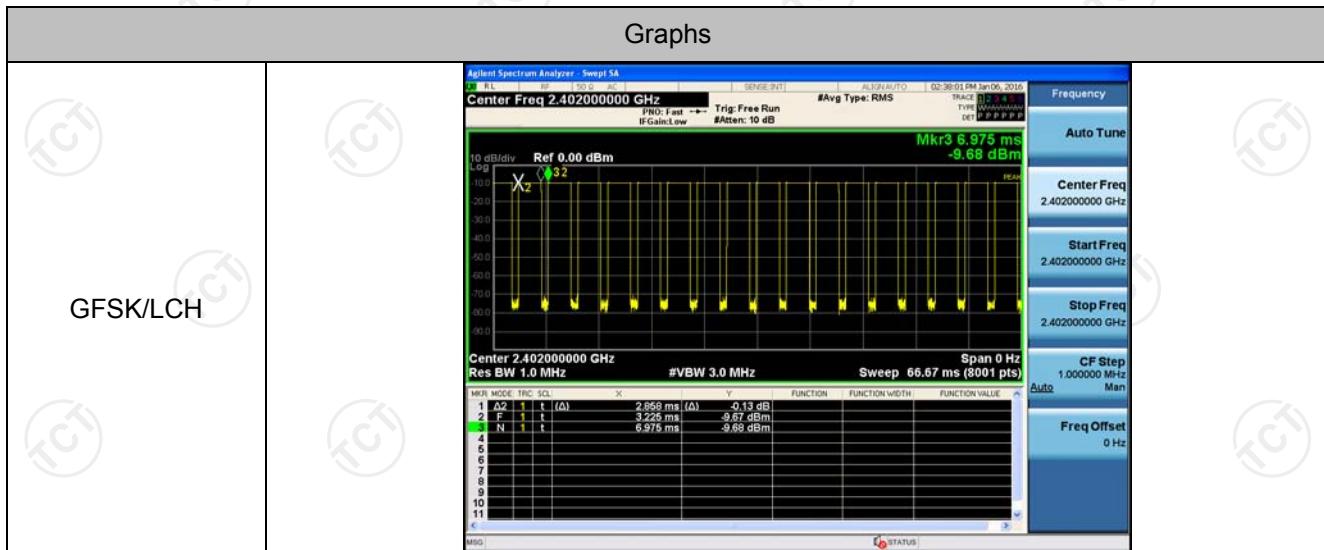
### Result Table

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

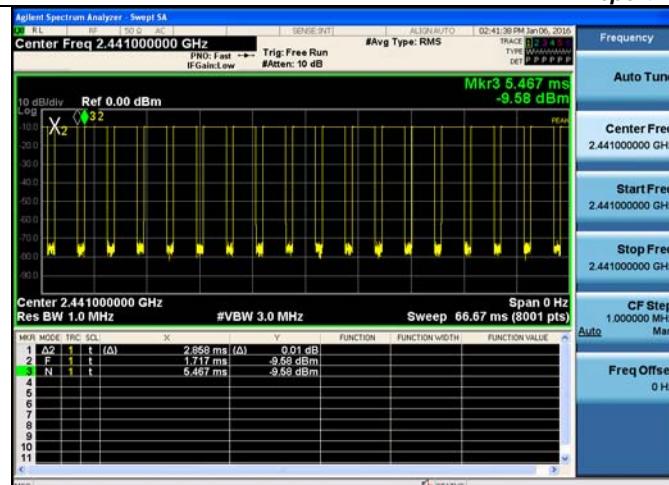
- The duration for dwell time calculation:  $0.4[\text{s}]*\text{hopping number}=0.4[\text{s}]*79[\text{ch}]=31.6[\text{s}*\text{ch}]$ ;
- The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.
- The hops per second for all channels: The selected EUT Conf 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  $1600/6=266.67 [\text{ch}*\text{hop}/\text{s}]$
- The hops per second on one channel:  $266.67 [\text{ch}*\text{hop}/\text{s}]/79 [\text{ch}]=3.38 [\text{hop}/\text{s}]$ ;
- The total hops for all channels within the dwell time calculation duration:  $3.38 [\text{hop}/\text{s}]*31.6[\text{s}*\text{ch}]=106.67 [\text{hop}*\text{ch}]$ ;
- The dwell time for all channels hopping:  $106.67 [\text{hop}*\text{ch}]*\text{Burst Width} [\text{ms}/\text{hop}/\text{ch}]$ .

Mode	Channel	Burst Width [ms/hop/ch]	Total Hops[hop*ch]	Dwell Time[s]	Duty Cycle [%]	Verdic t
GFSK	LCH	2.858	106.7	0.305	76.22	PASS
GFSK	MCH	2.858	106.7	0.305	76.22	PASS
GFSK	HCH	2.858	106.7	0.305	76.22	PASS
π/4DQPSK	LCH	2.858	106.7	0.305	76.22	PASS
π/4DQPSK	MCH	2.867	106.7	0.306	76.44	PASS
π/4DQPSK	HCH	2.867	106.7	0.306	76.44	PASS
8DPSK	LCH	2.867	106.7	0.306	76.44	PASS
8DPSK	MCH	2.858	106.7	0.305	76.22	PASS
8DPSK	HCH	2.867	106.7	0.306	76.44	PASS

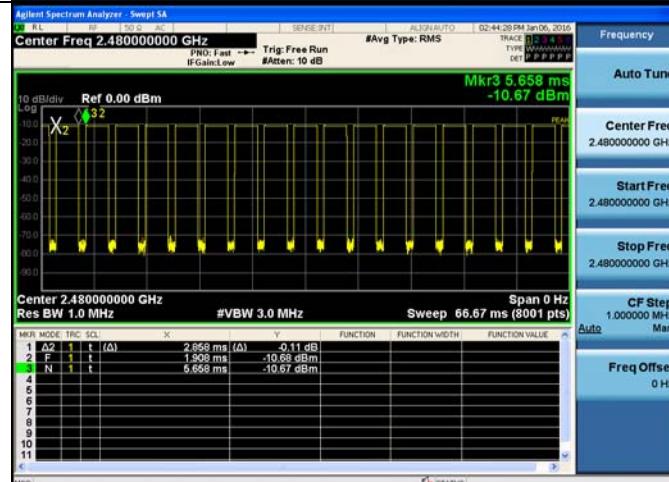
### Test Graph



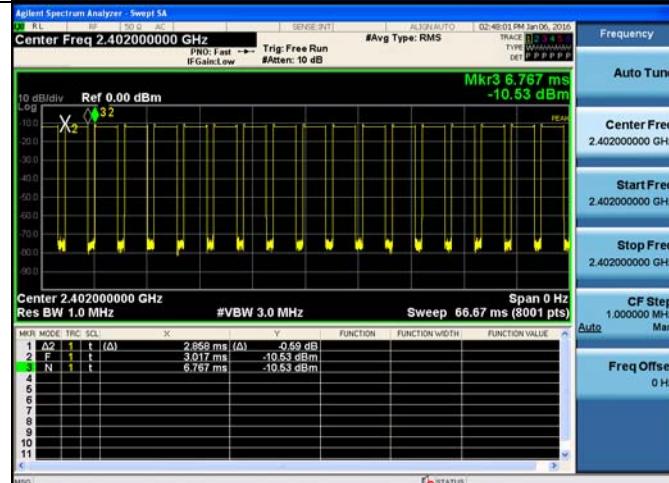
GFSK/MCH



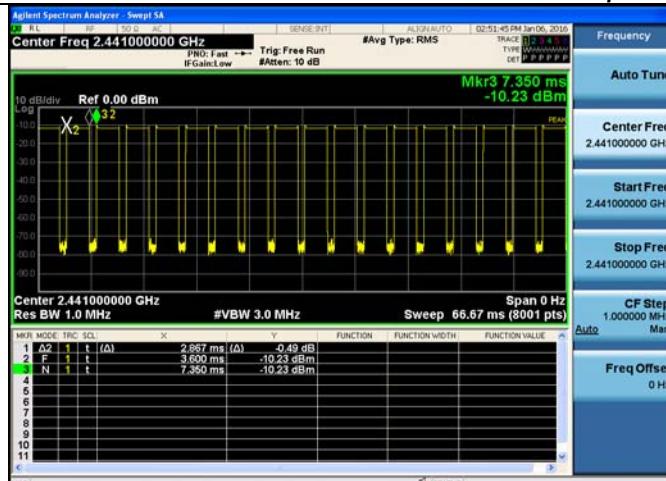
GFSK/HCH



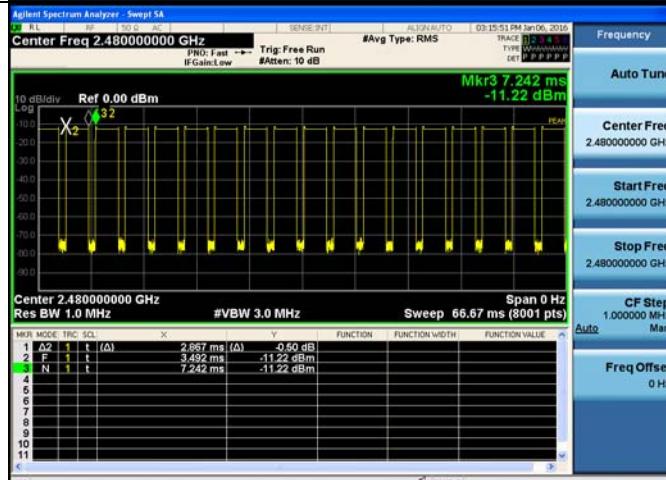
π/4DQPSK/LCH



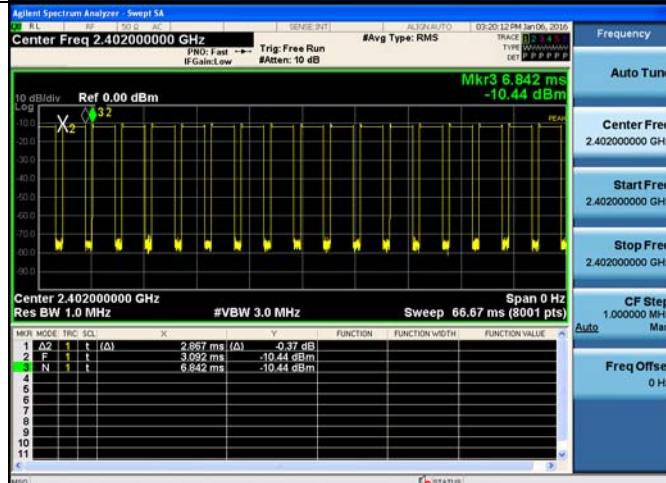
π/4DQPSK/MCH



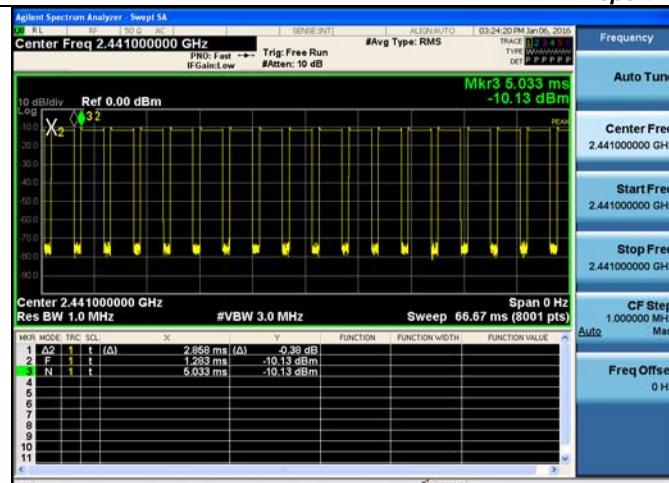
π/4DQPSK/HCH



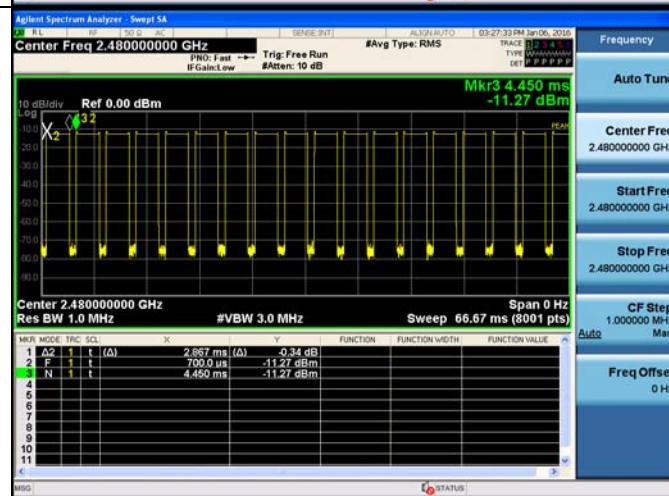
8DPSK/LCH



8DPSK/MCH



8DPSK/HCH

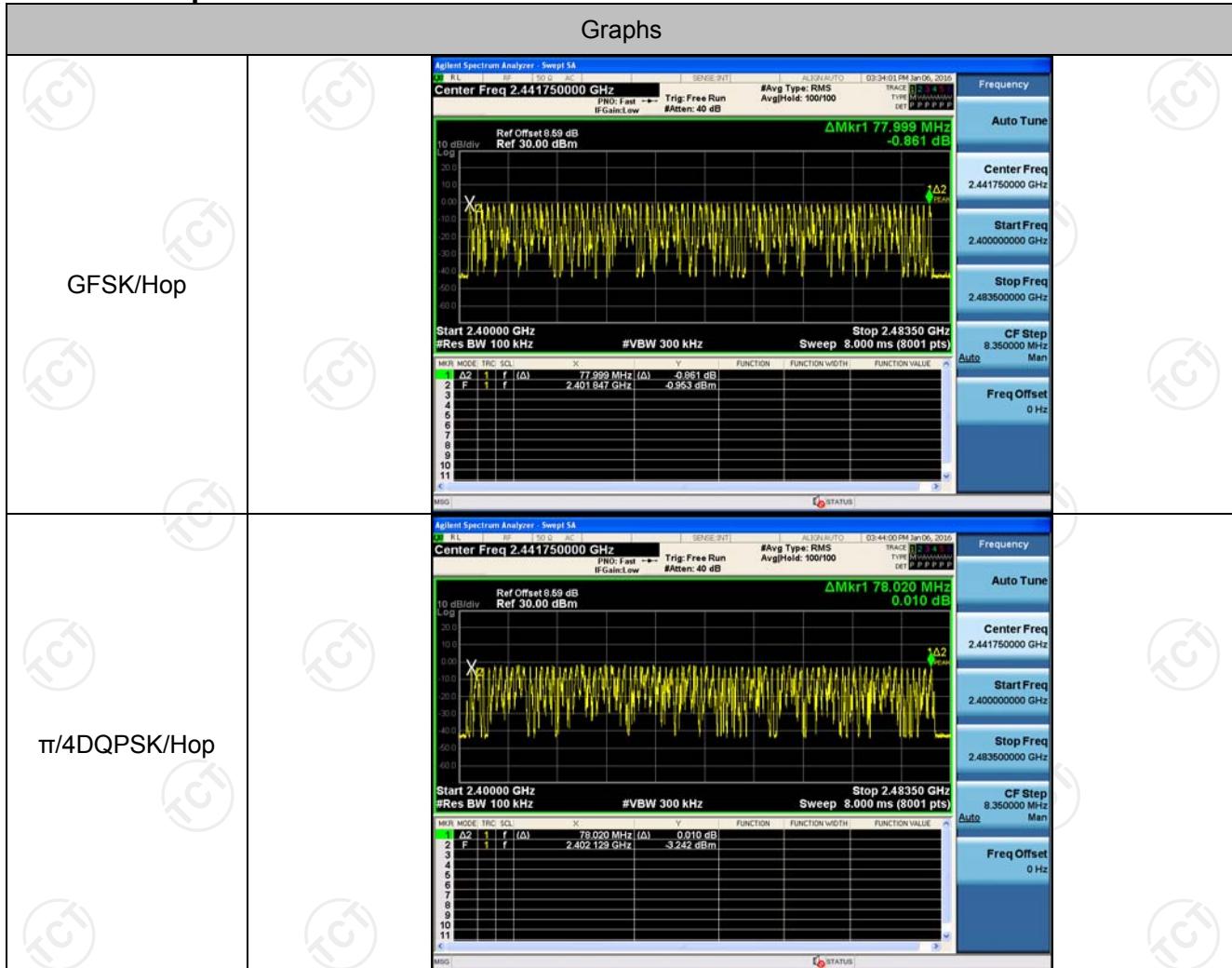


## Hopping Channel Number

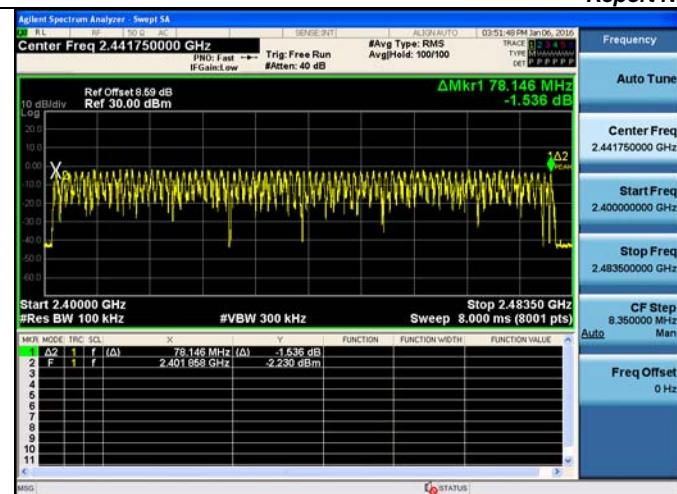
### Result Table

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



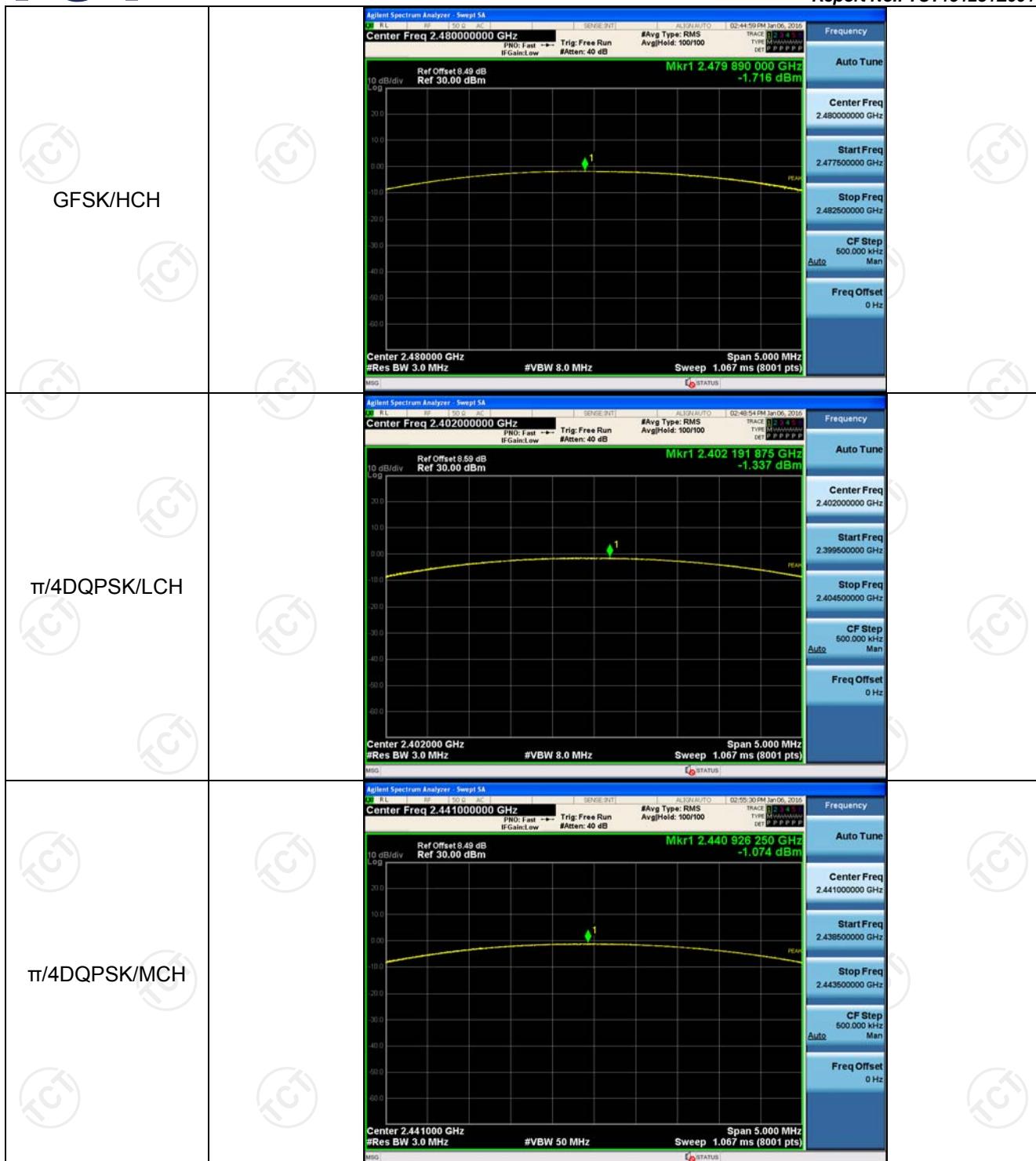
## Conducted Peak Output Power

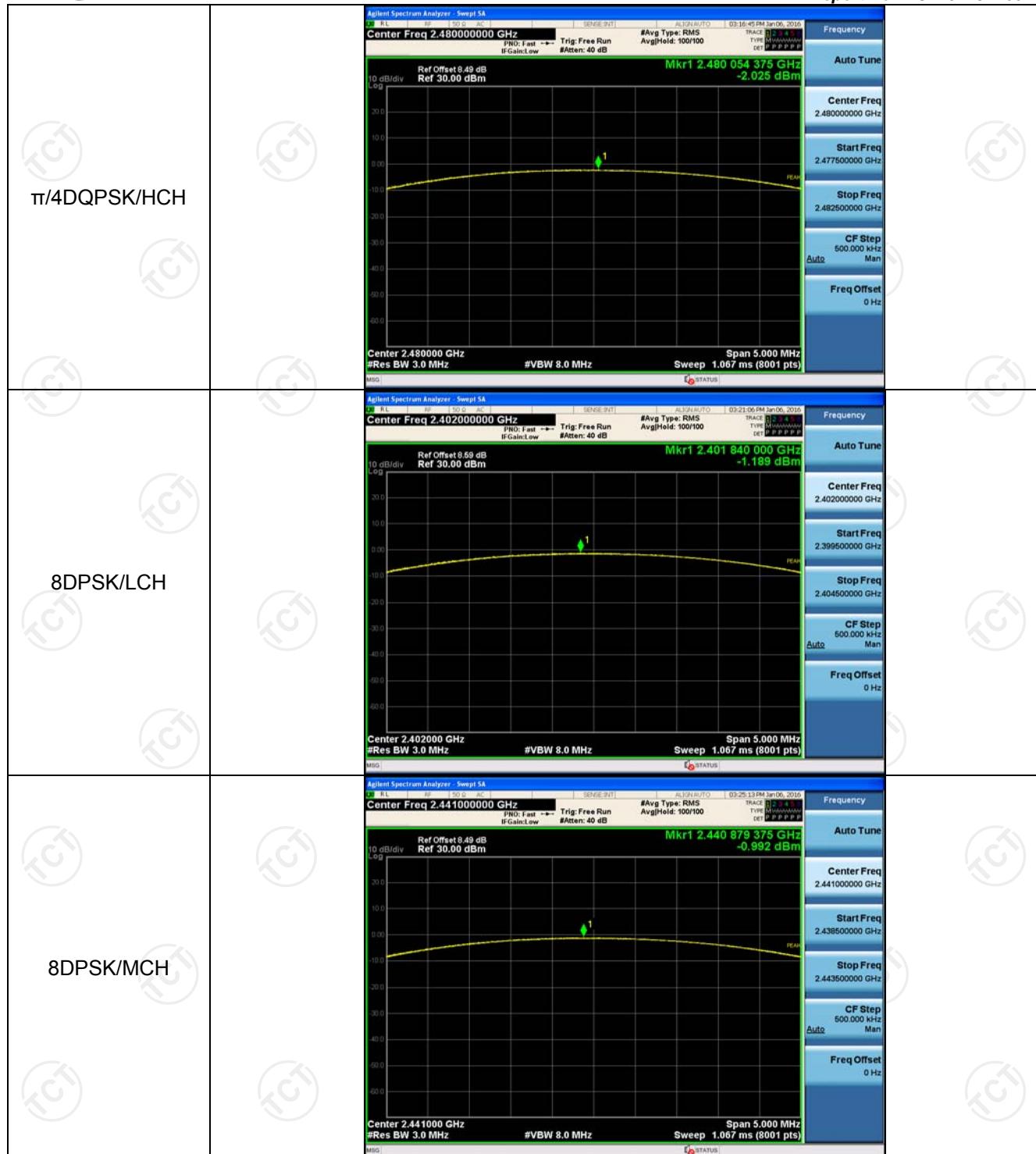
### Result Table

Mode	Channel.	Maximum Peak Output Power [dBm]	Verdict
GFSK	LCH	-0.694	PASS
GFSK	MCH	-0.683	PASS
GFSK	HCH	-1.716	PASS
$\pi/4$ DQPSK	LCH	-1.337	PASS
$\pi/4$ DQPSK	MCH	-1.074	PASS
$\pi/4$ DQPSK	HCH	-2.025	PASS
8DPSK	LCH	-1.189	PASS
8DPSK	MCH	-0.992	PASS
8DPSK	HCH	-2.062	PASS

### Test Graph







8DPSK/HCH

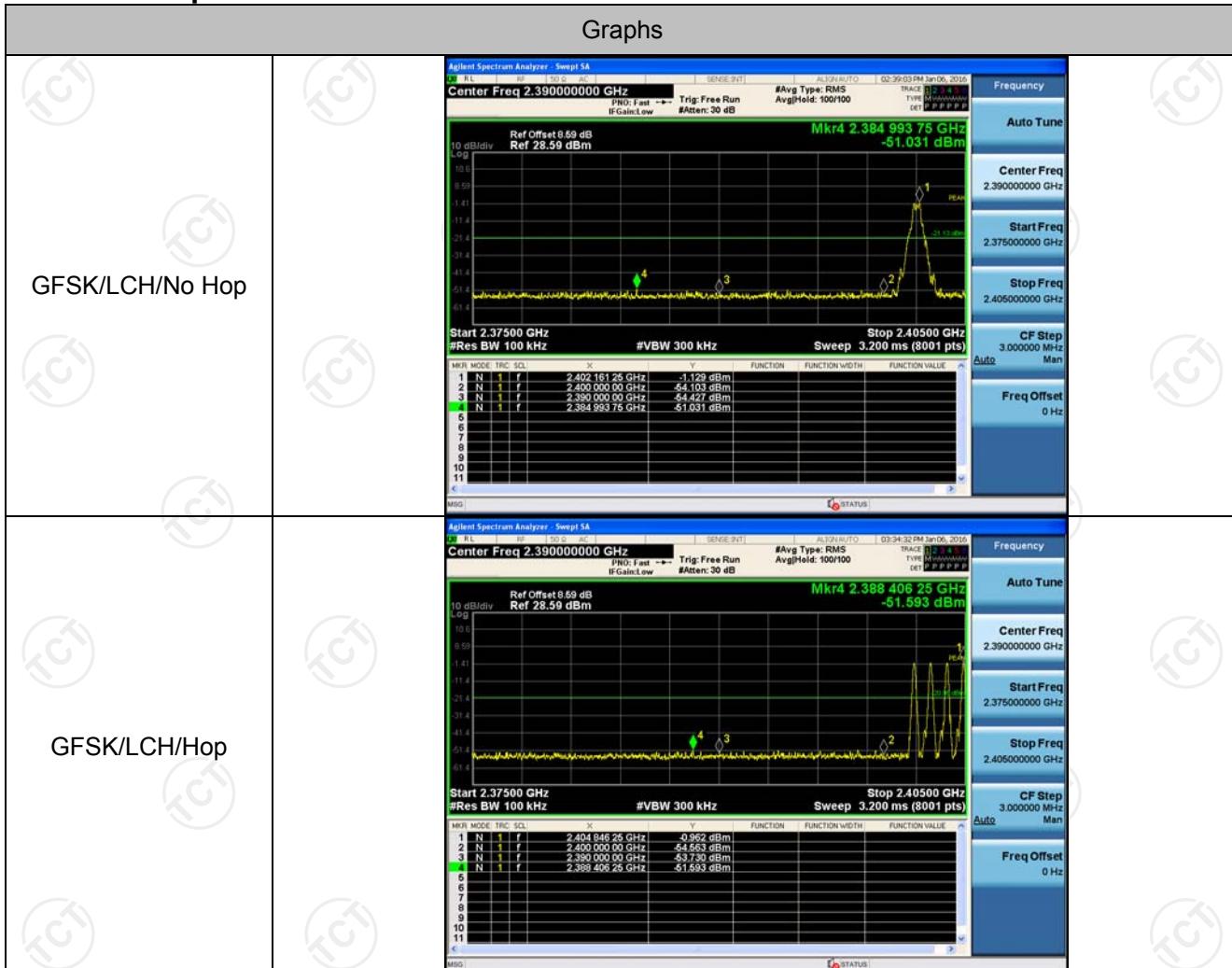


## Band-edge for RF Conducted Emissions

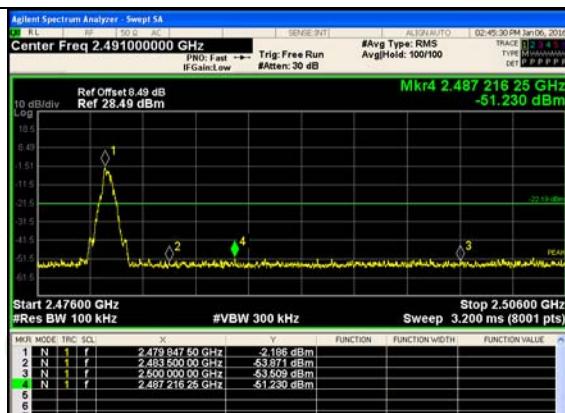
Result Table

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	-1.129	Off	-51.031	-21.13	PASS
			-0.962	On	-51.593	-20.96	PASS
GFSK	HCH	2480	-2.186	Off	-51.230	-22.19	PASS
			-1.699	On	-50.622	-21.7	PASS
$\pi/4$ DQPSK	LCH	2402	-2.274	Off	-51.340	-22.27	PASS
			-3.266	On	-51.345	-23.27	PASS
$\pi/4$ DQPSK	HCH	2480	-3.080	Off	-51.214	-23.08	PASS
			-2.897	On	-51.127	-22.9	PASS
8DPSK	LCH	2402	-2.314	Off	-51.694	-22.31	PASS
			-2.314	On	-51.276	-22.31	PASS
8DPSK	HCH	2480	-2.799	Off	-51.101	-22.8	PASS
			-3.359	On	-50.858	-23.36	PASS

Test Graph

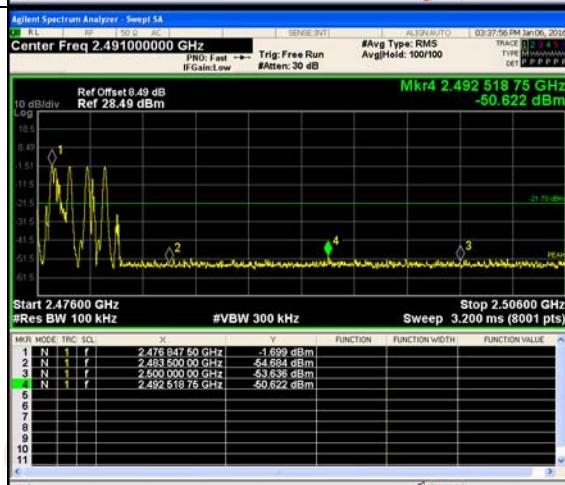


GFSK/HCH/No Hop



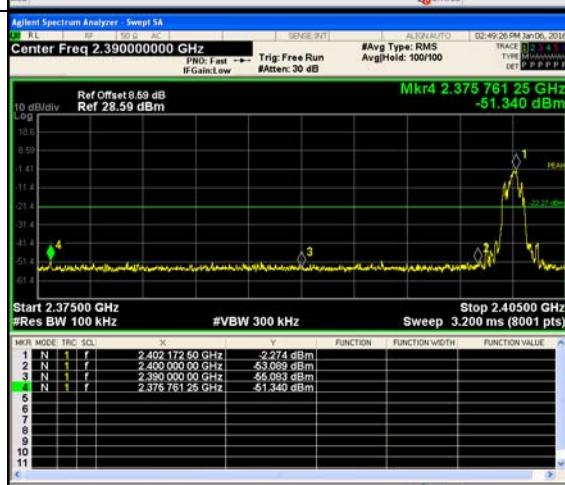
Frequency
Auto Tune
Center Freq
2.491000000 GHz
Start Freq
2.476000000 GHz
Stop Freq
2.506000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

GFSK/HCH/Hop



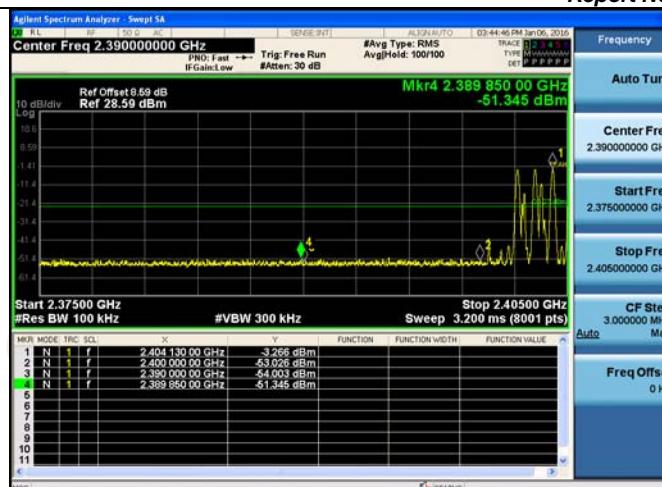
Frequency
Auto Tune
Center Freq
2.491000000 GHz
Start Freq
2.476000000 GHz
Stop Freq
2.506000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

π/4DQPSK/LCH/No Hop

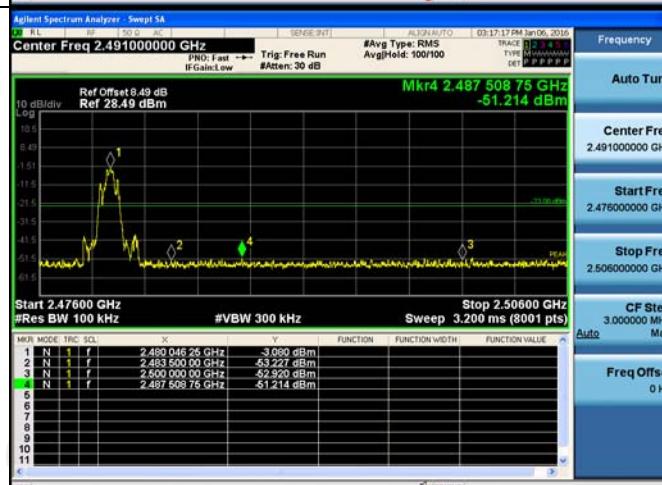


Frequency
Auto Tune
Center Freq
2.390000000 GHz
Start Freq
2.375000000 GHz
Stop Freq
2.405000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

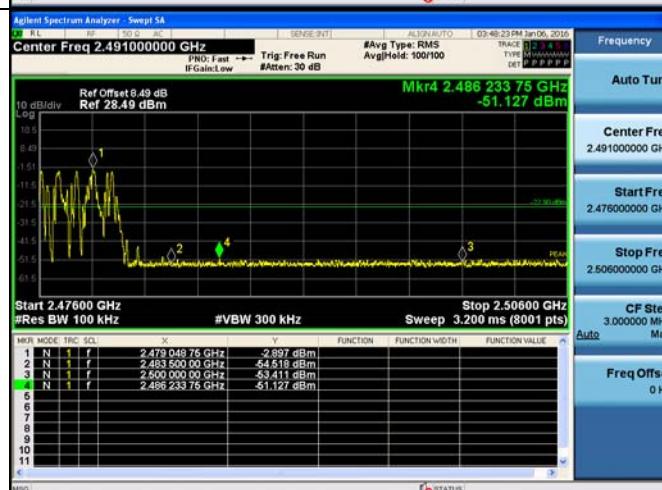
$\pi/4$ DQPSK/LCH/Hop



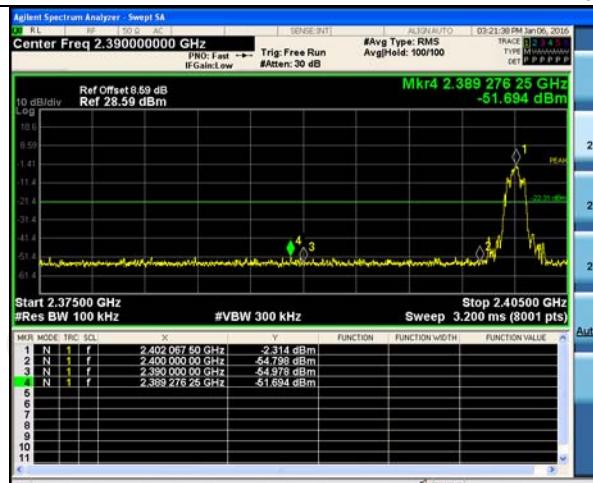
$\pi/4$ DQPSK/HCH/No Hop



$\pi/4$ DQPSK/HCH/Hop

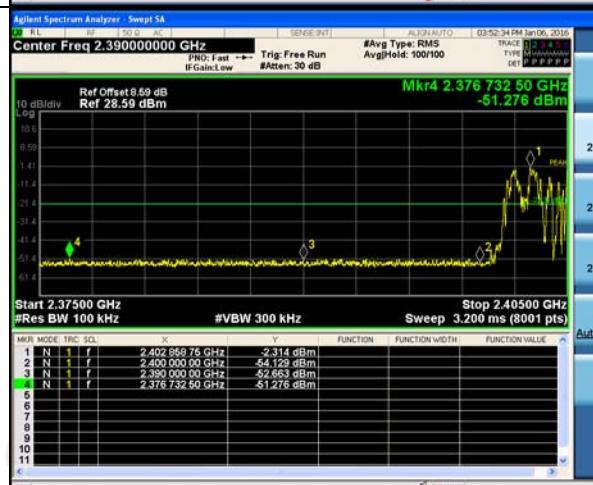


8DPSK/LCH/No Hop



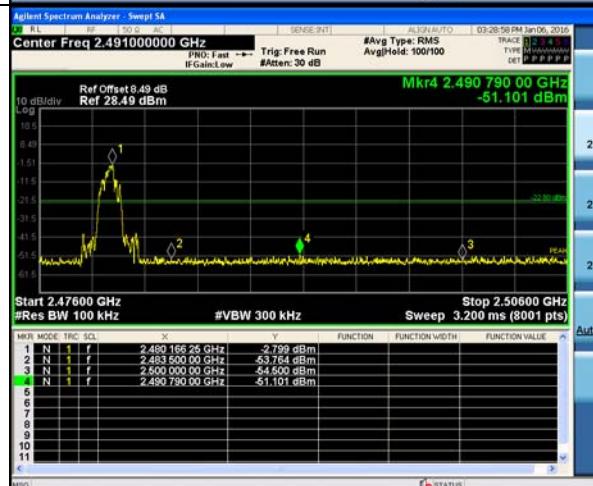
Frequency
Auto Tune
Center Freq
2.390000000 GHz
Start Freq
2.375000000 GHz
Stop Freq
2.405000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

8DPSK/LCH/Hop



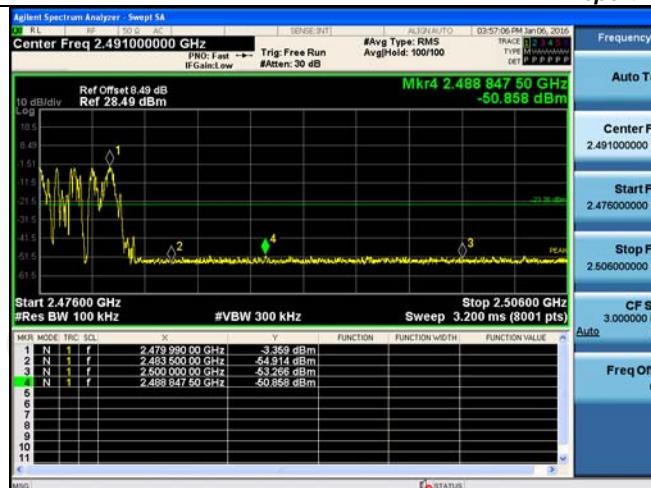
Frequency
Auto Tune
Center Freq
2.390000000 GHz
Start Freq
2.375000000 GHz
Stop Freq
2.405000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

8DPSK/HCH/No Hop



Frequency
Auto Tune
Center Freq
2.491000000 GHz
Start Freq
2.476000000 GHz
Stop Freq
2.506000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

8DPSK/HCH/Hop

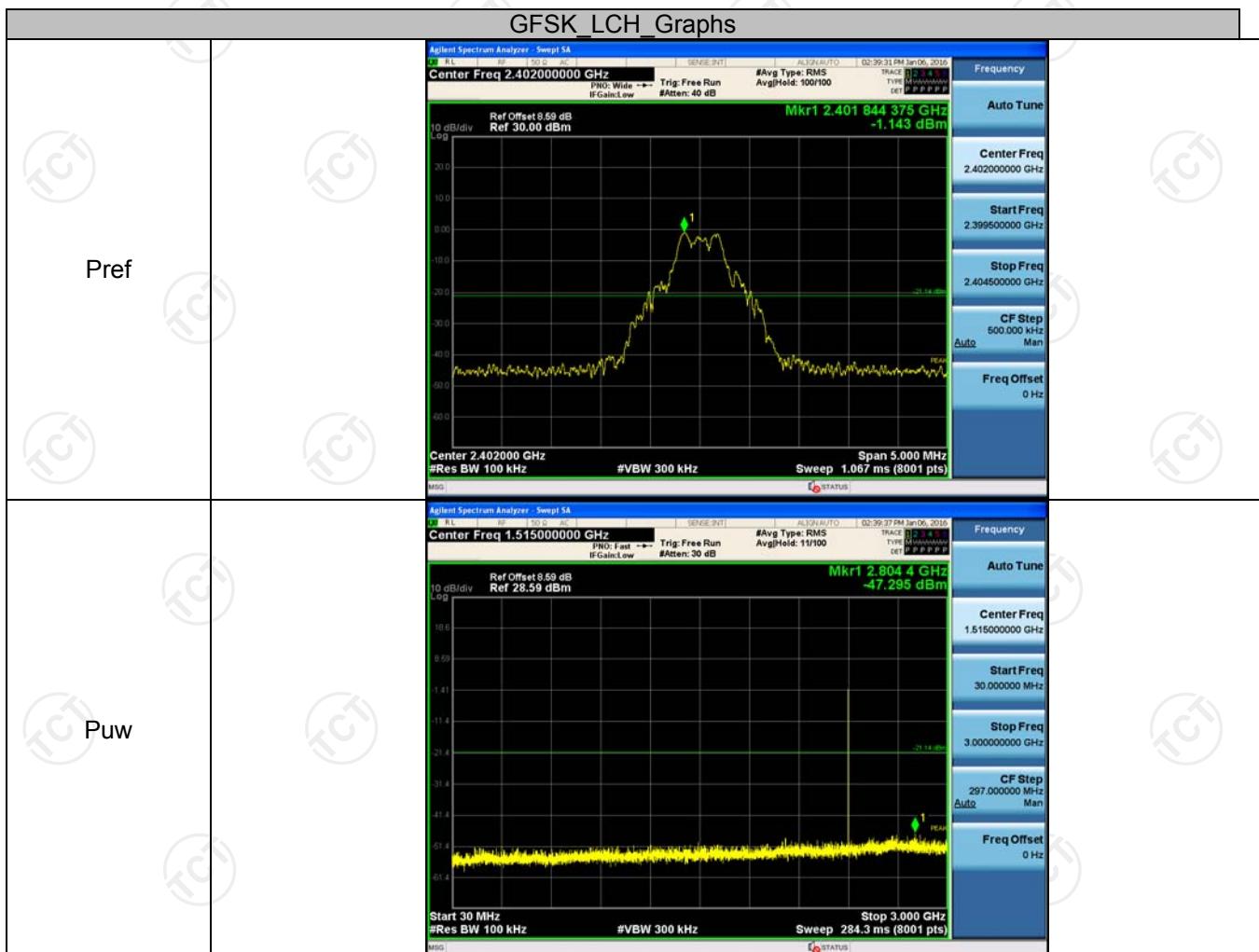


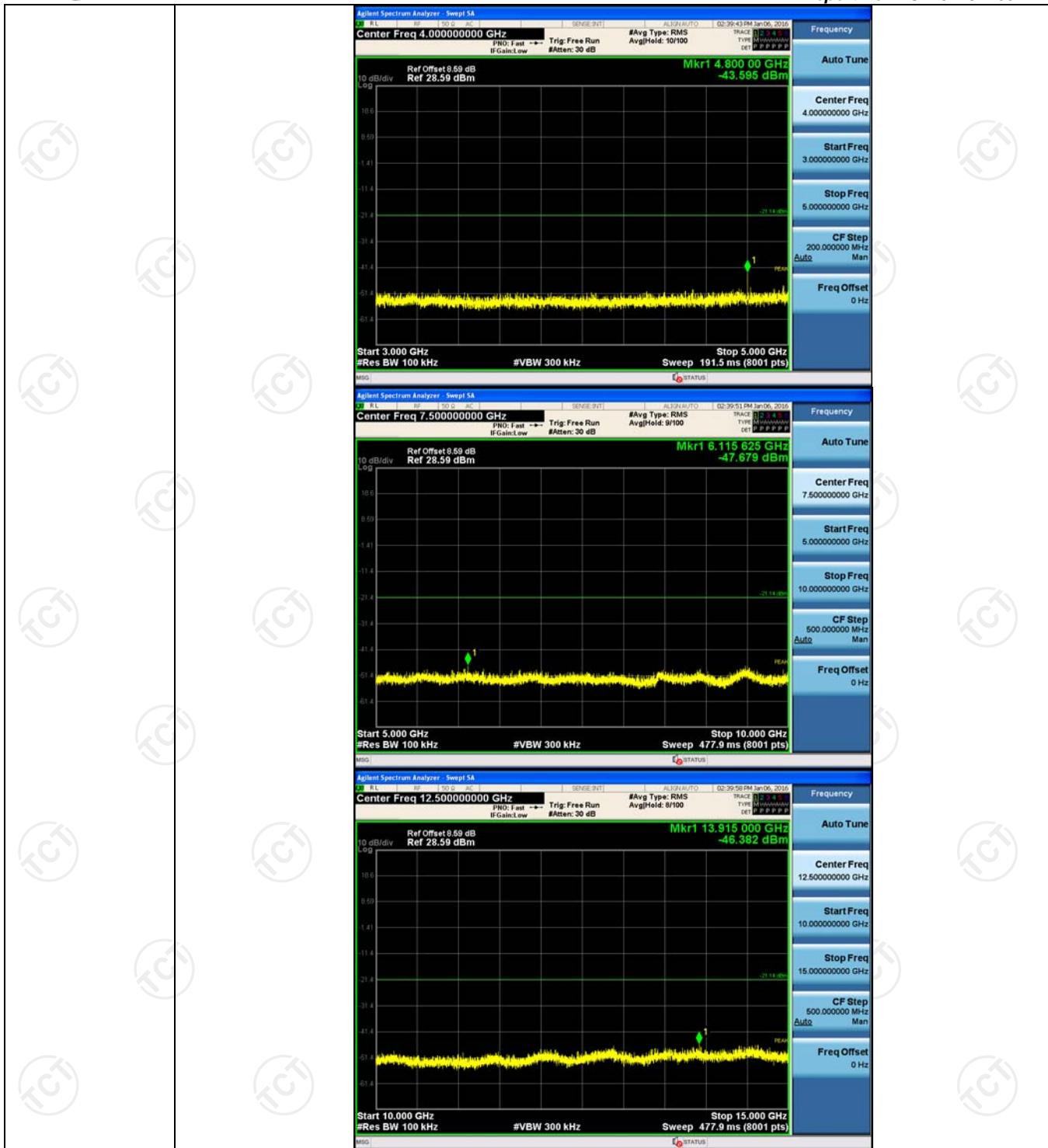
## RF Conducted Spurious Emissions

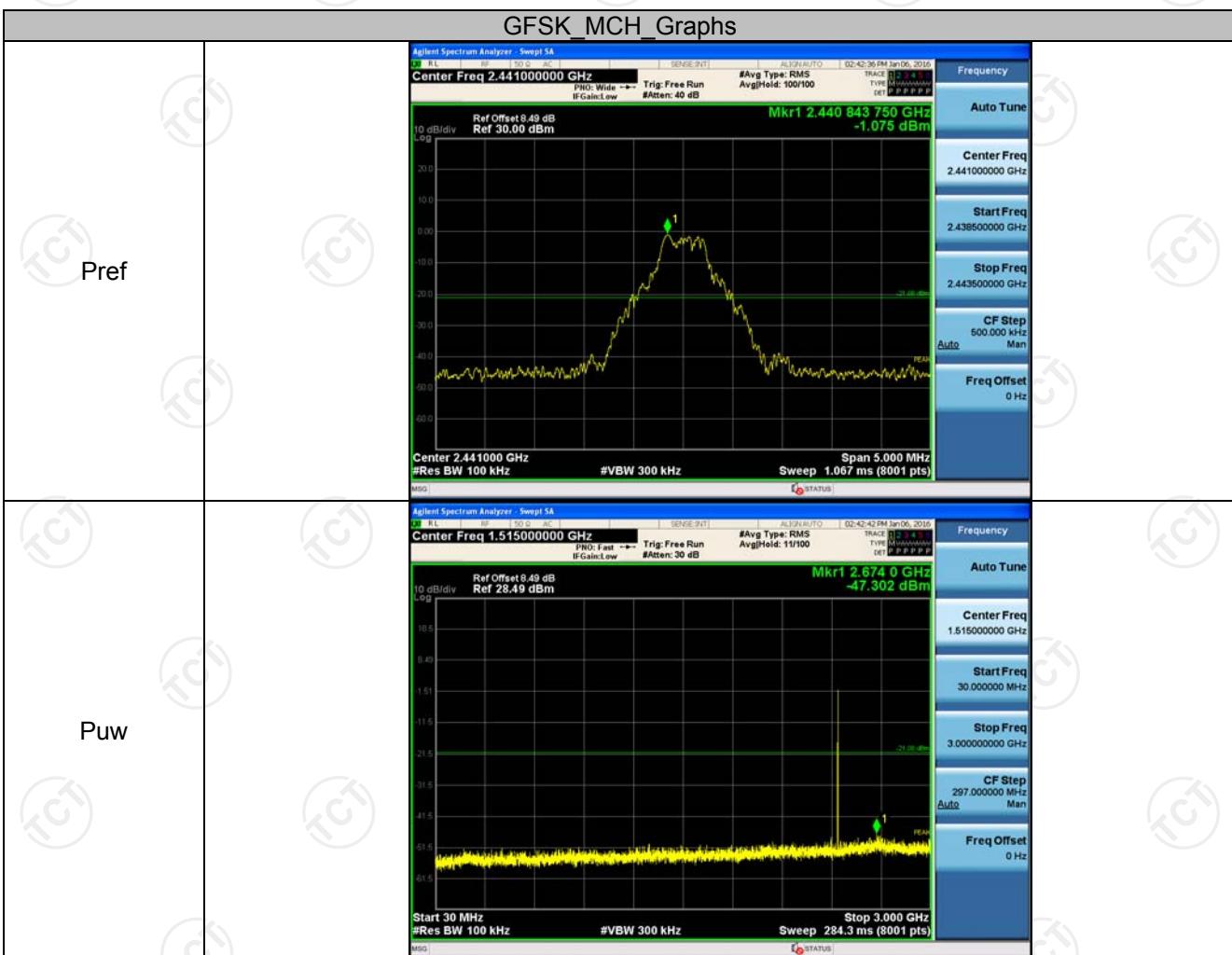
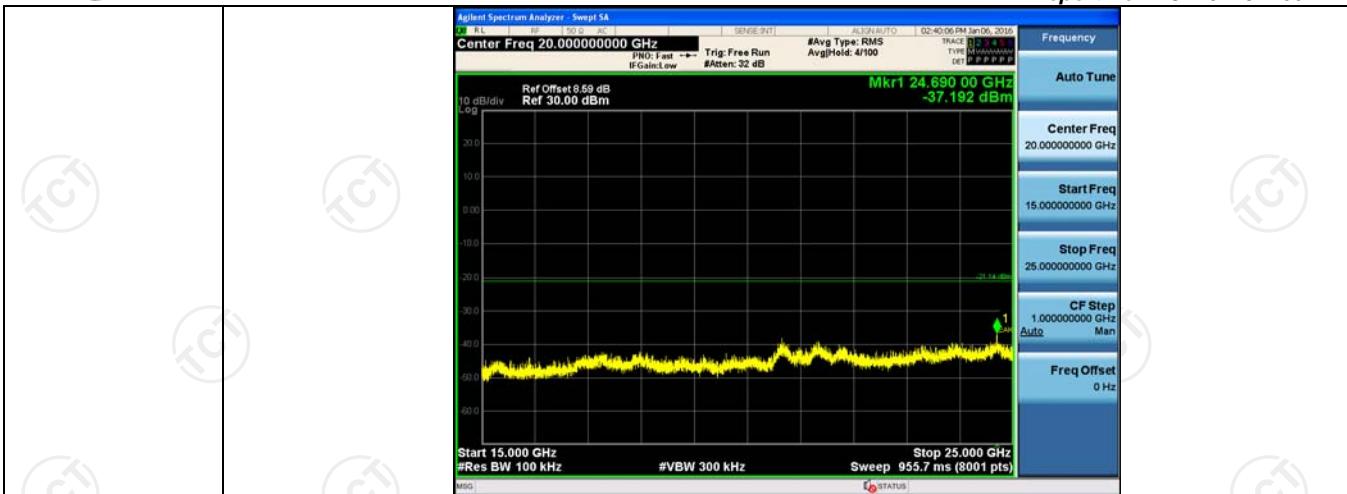
### Result Table

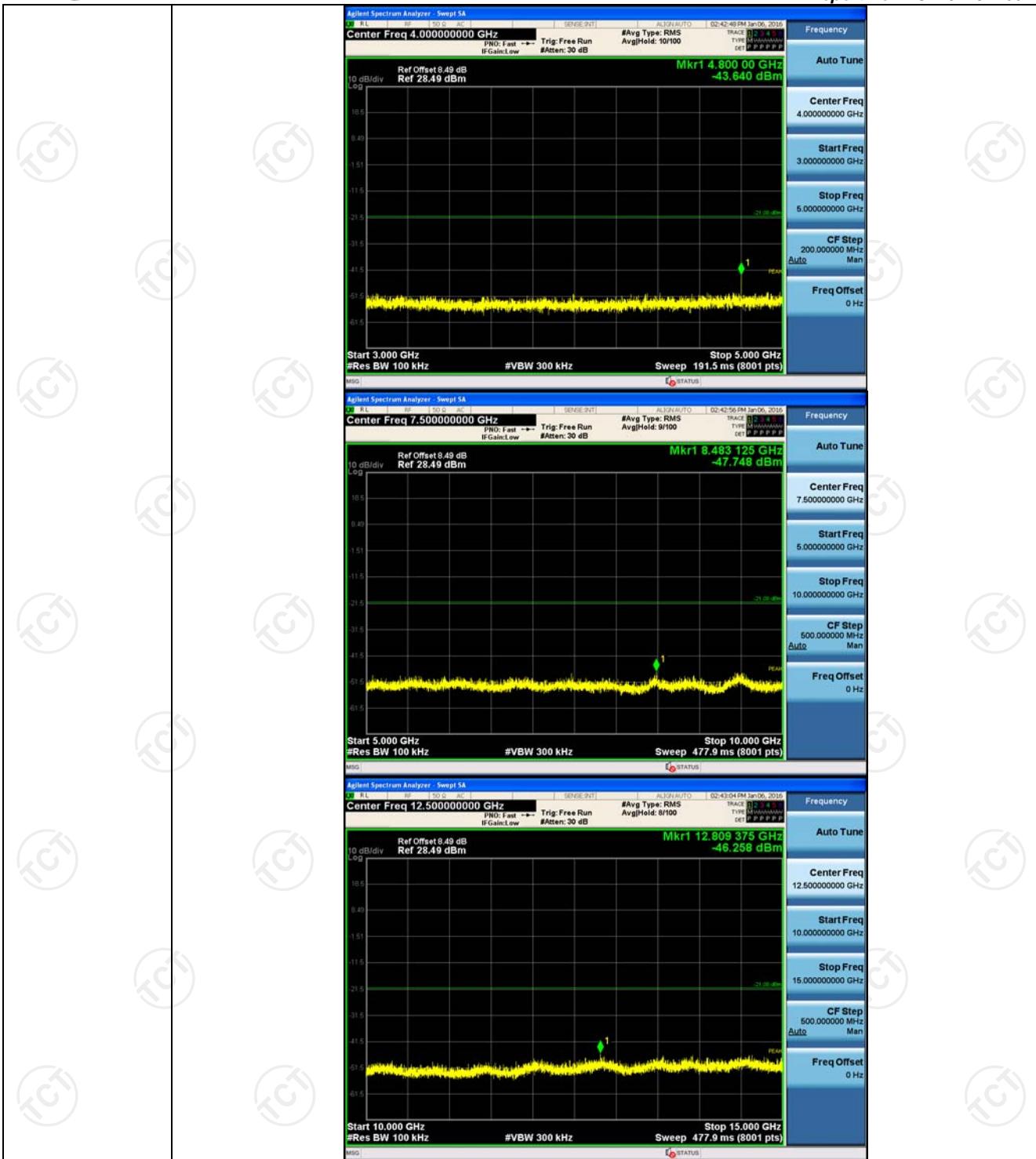
Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
GFSK	LCH	-1.143	<Limit	PASS
GFSK	MCH	-1.075	<Limit	PASS
GFSK	HCH	-2.132	<Limit	PASS
π/4DQPSK	LCH	-2.204	<Limit	PASS
π/4DQPSK	MCH	-2.396	<Limit	PASS
π/4DQPSK	HCH	-3.082	<Limit	PASS
8DPSK	LCH	-2.014	<Limit	PASS
8DPSK	MCH	-2.384	<Limit	PASS
8DPSK	HCH	-2.948	<Limit	PASS

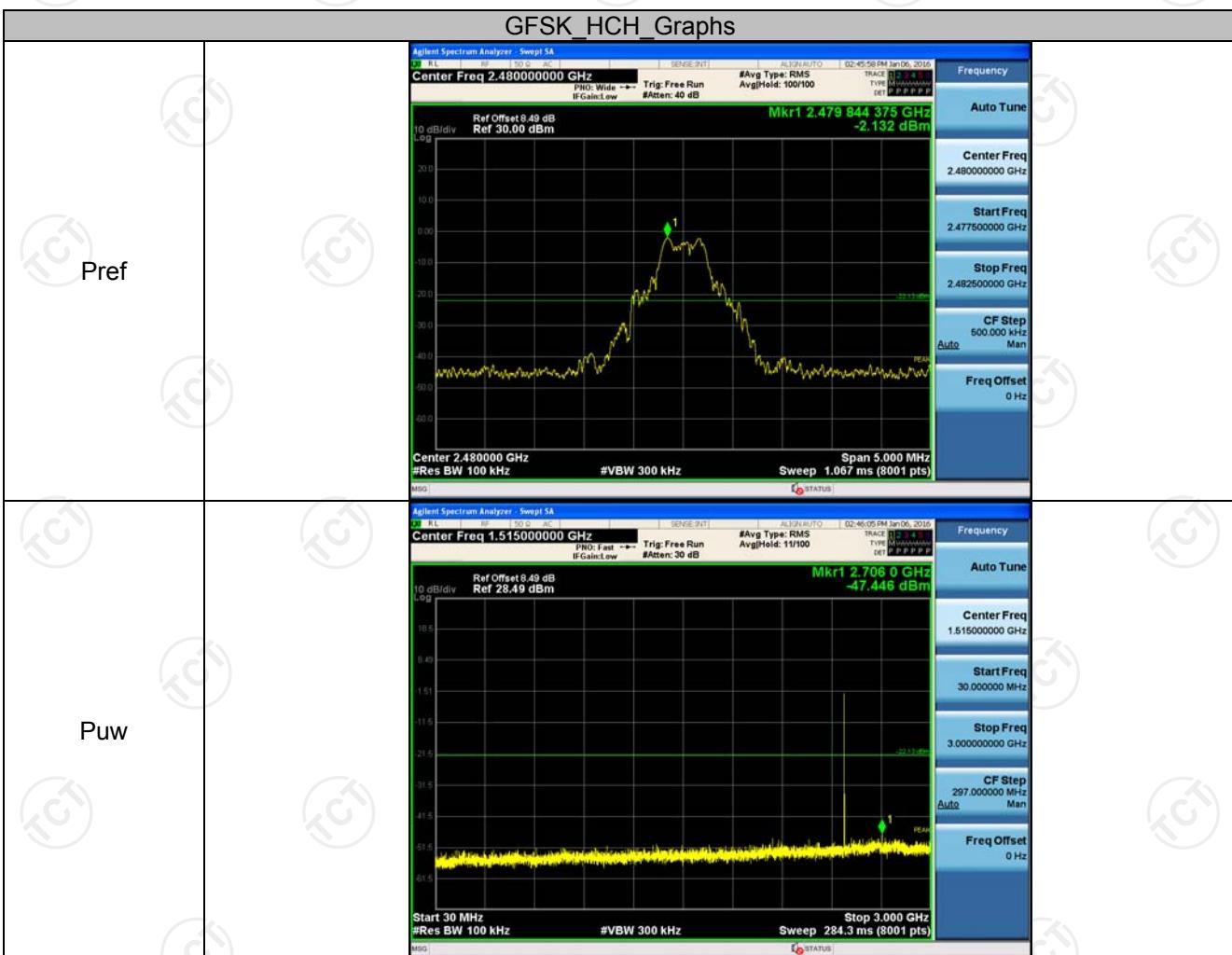
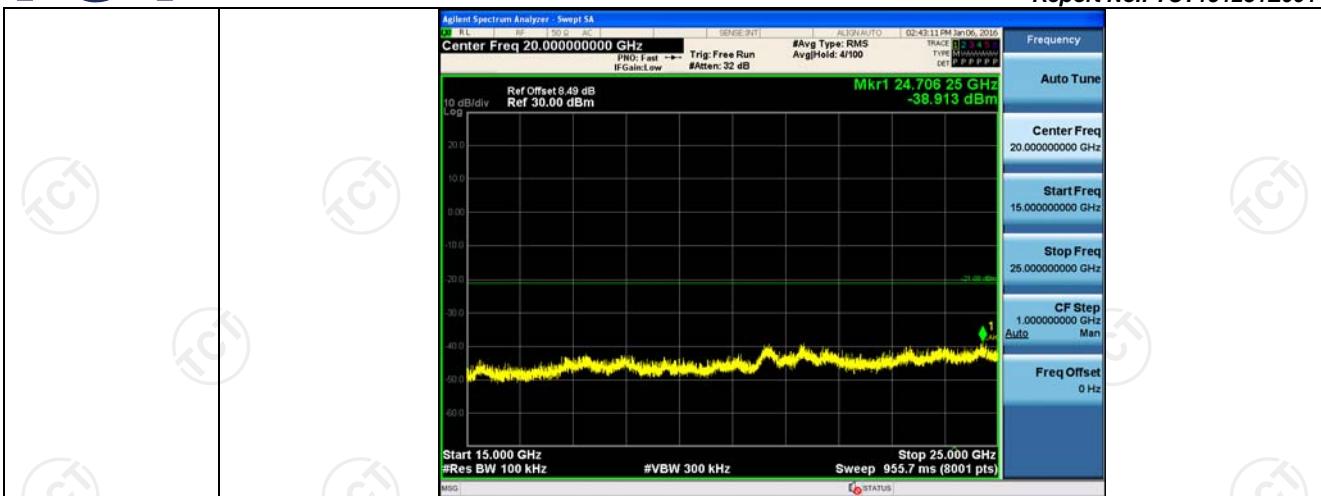
### Test Graph

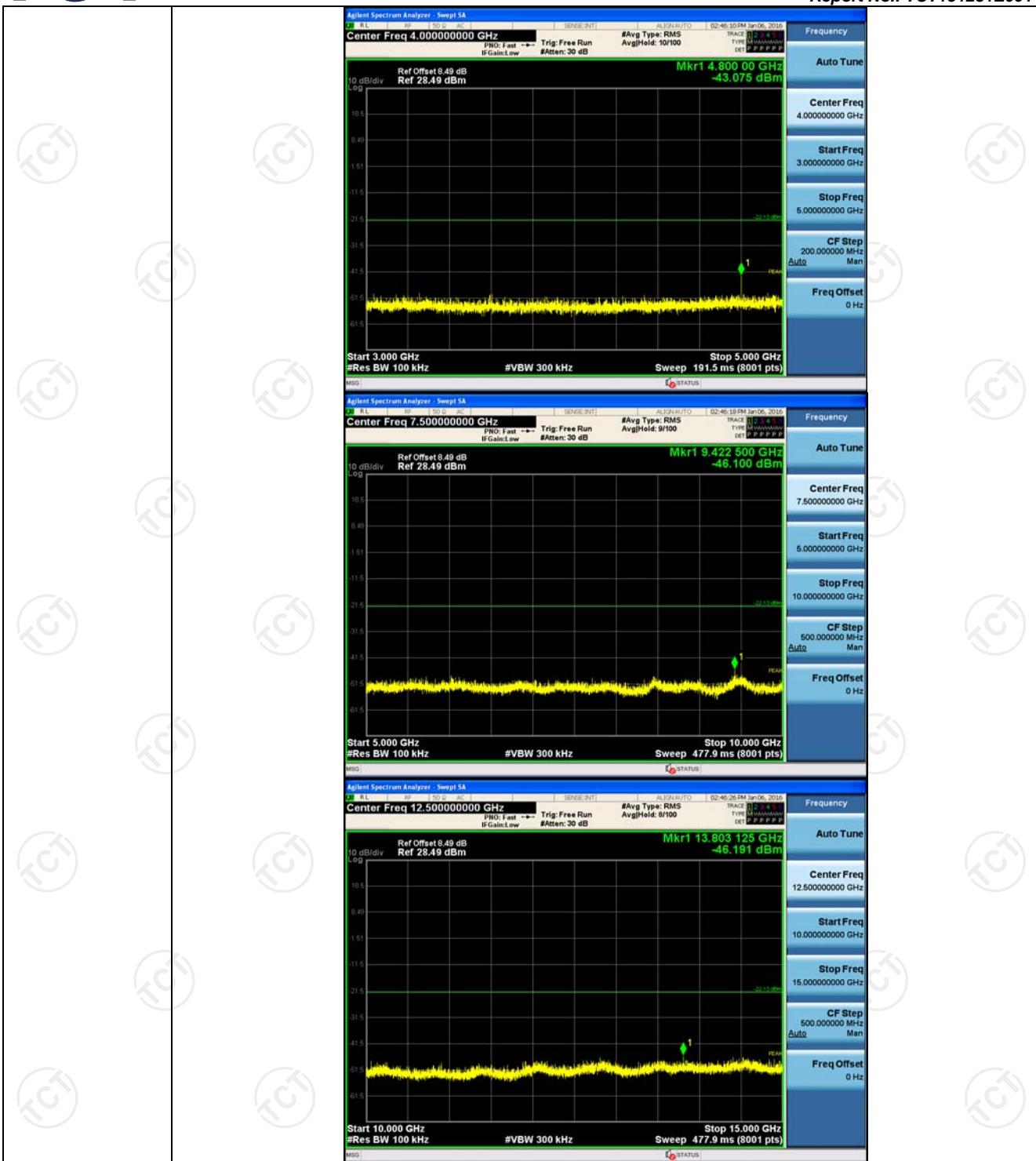


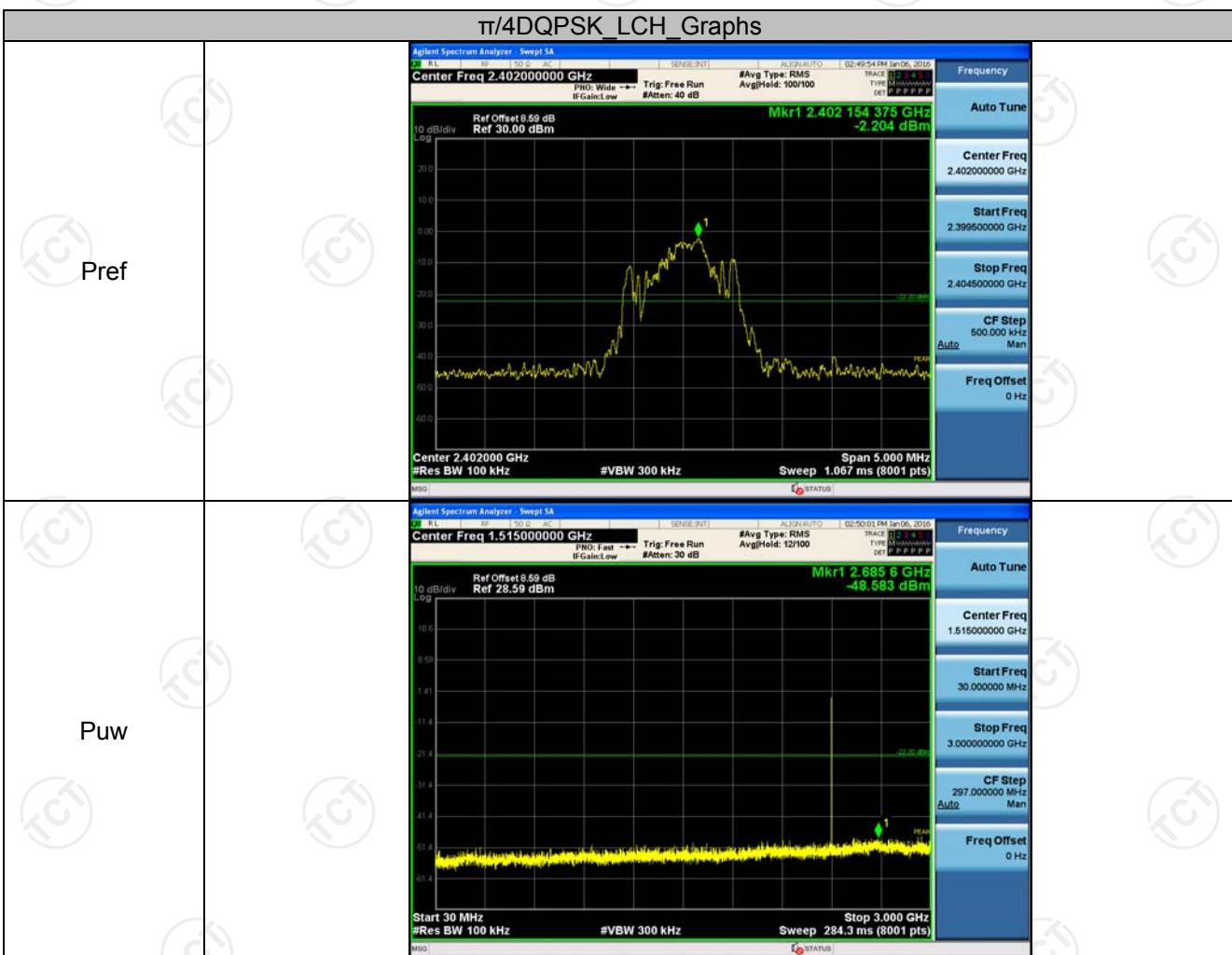


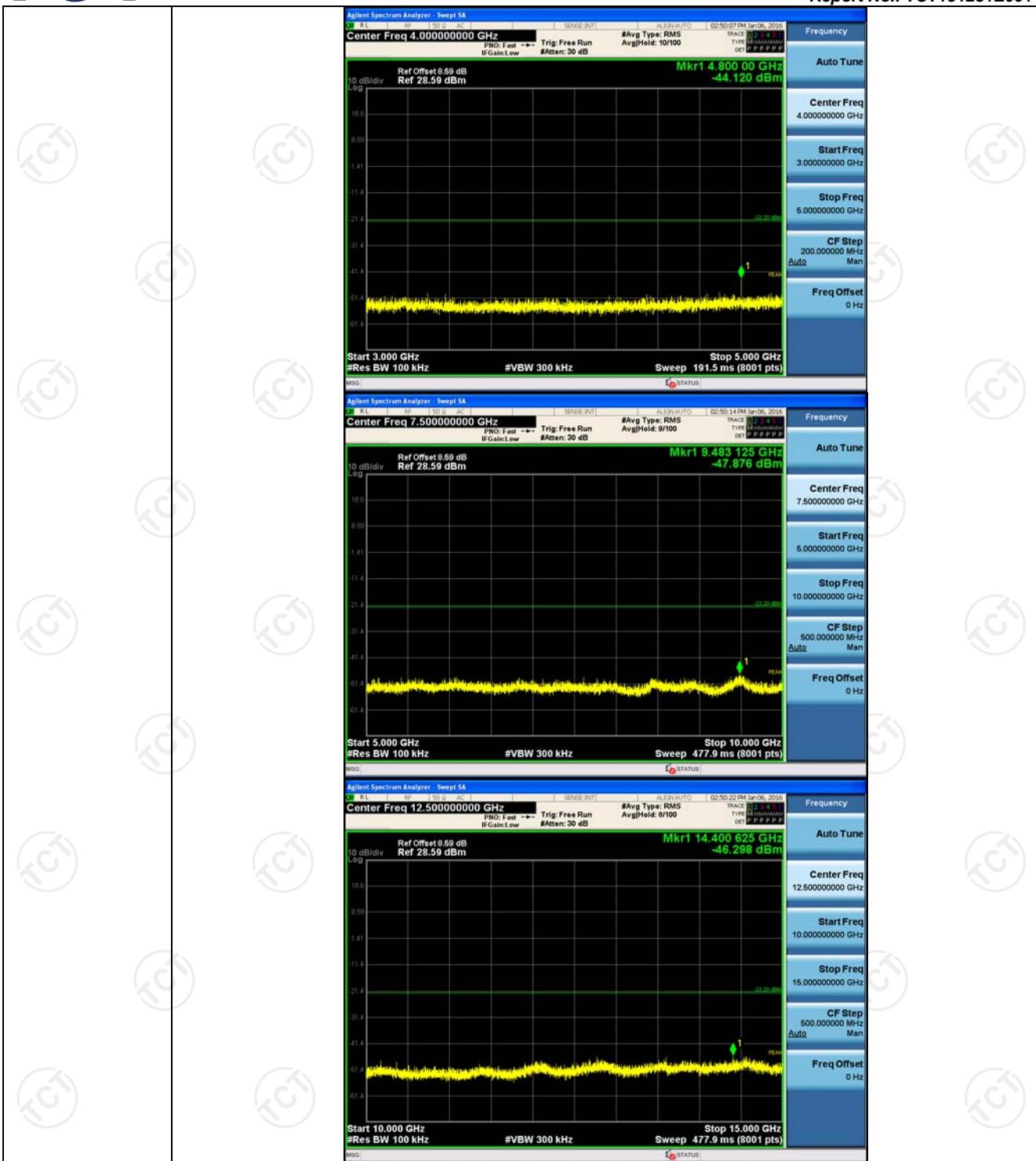


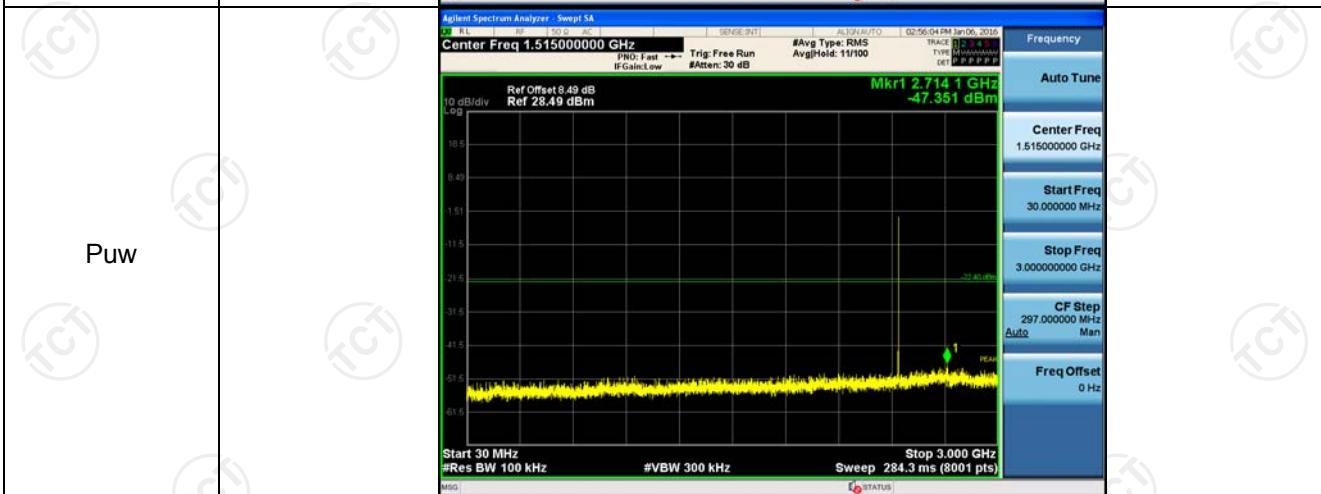
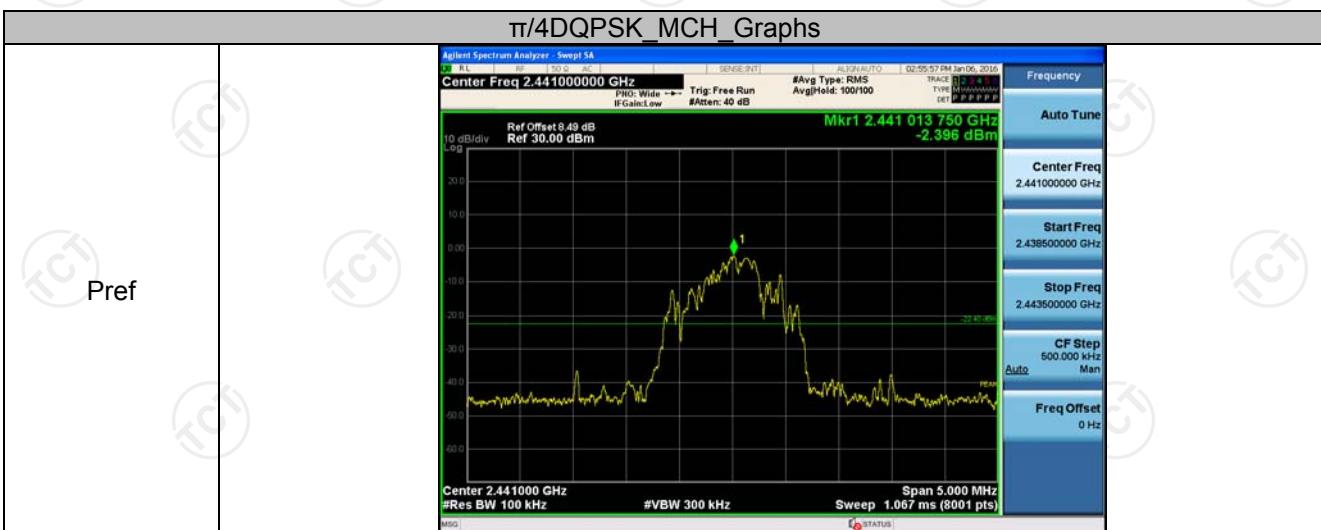
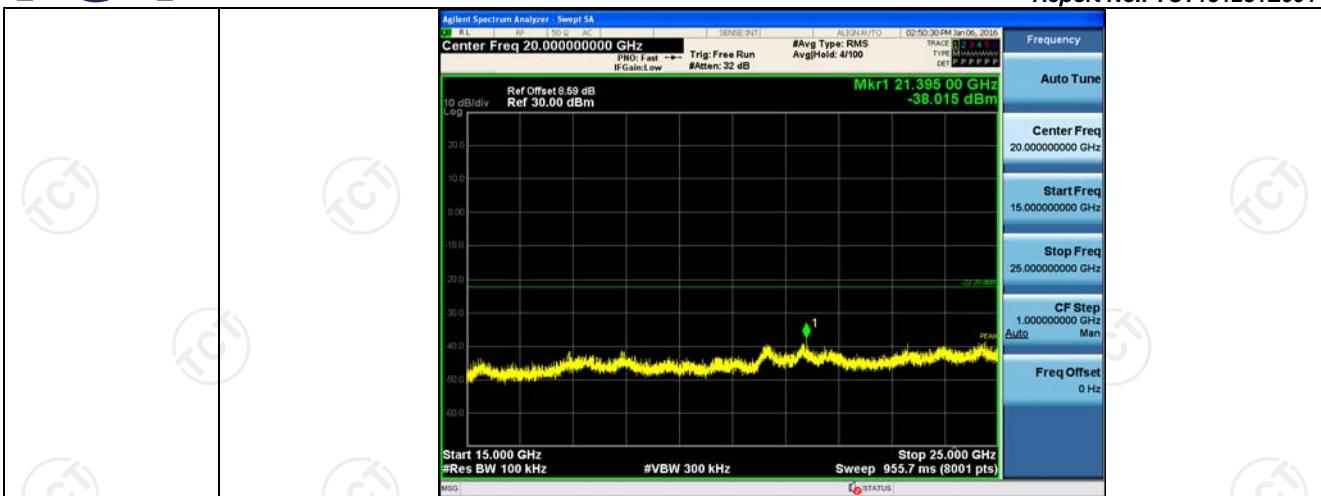


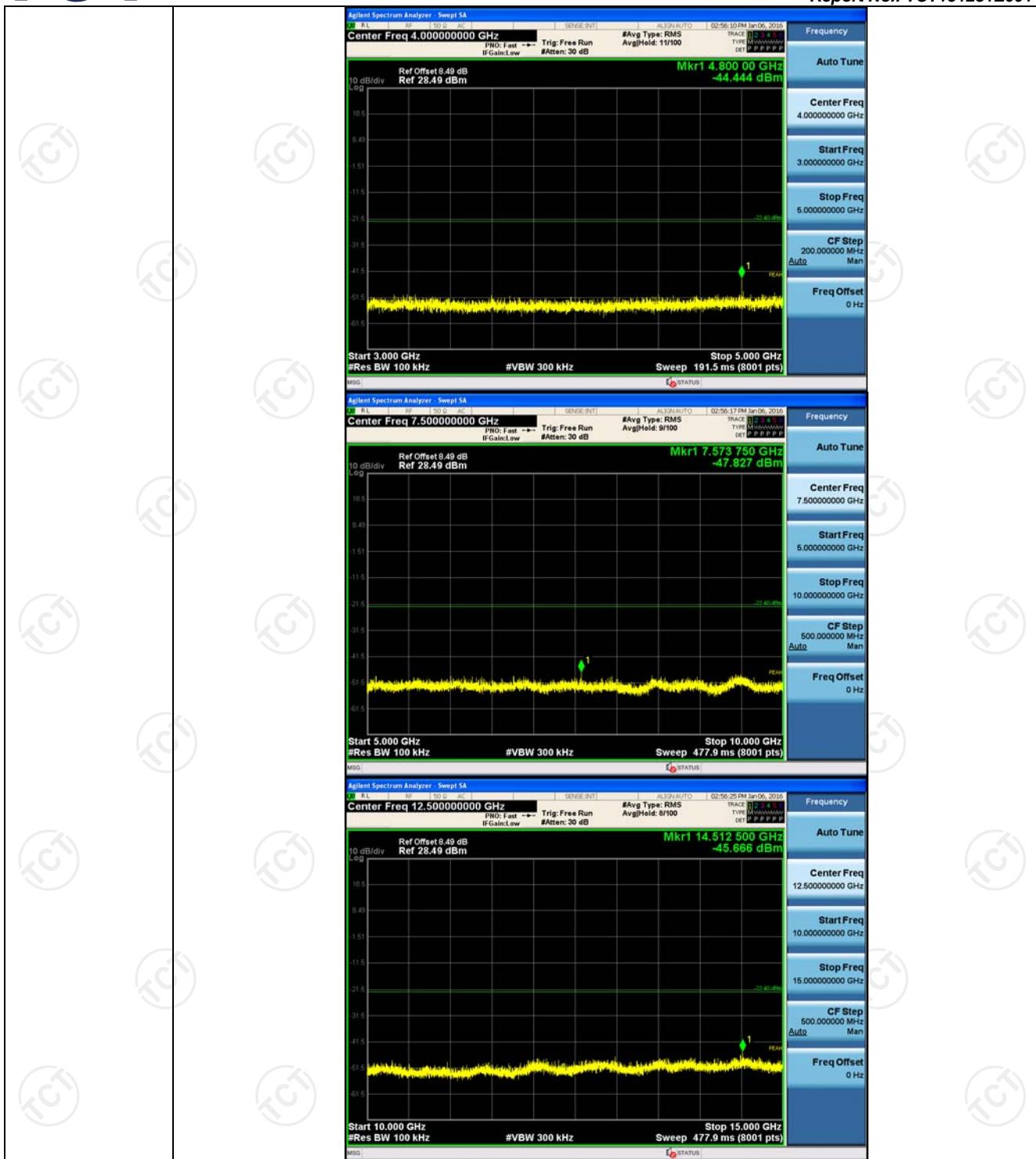


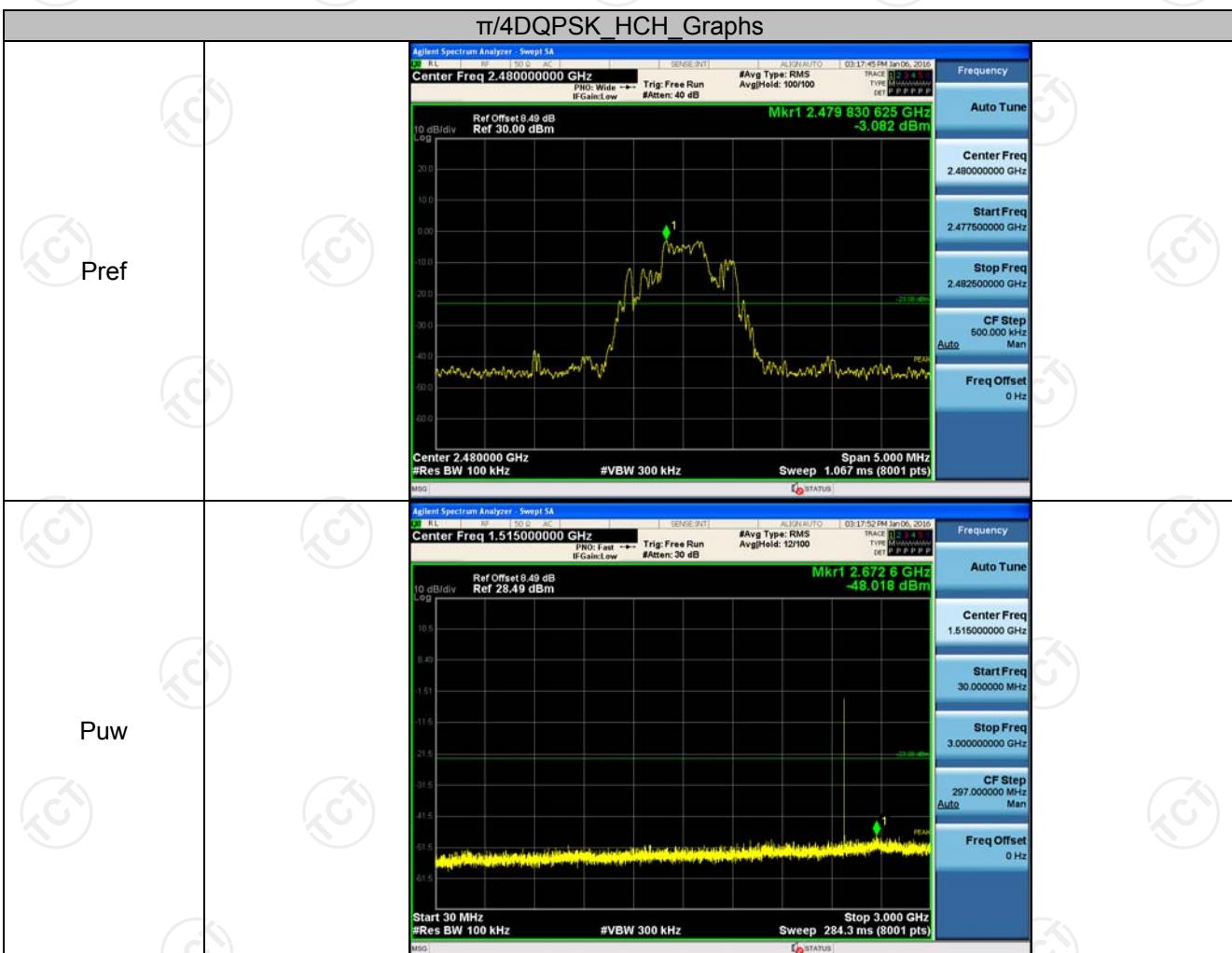
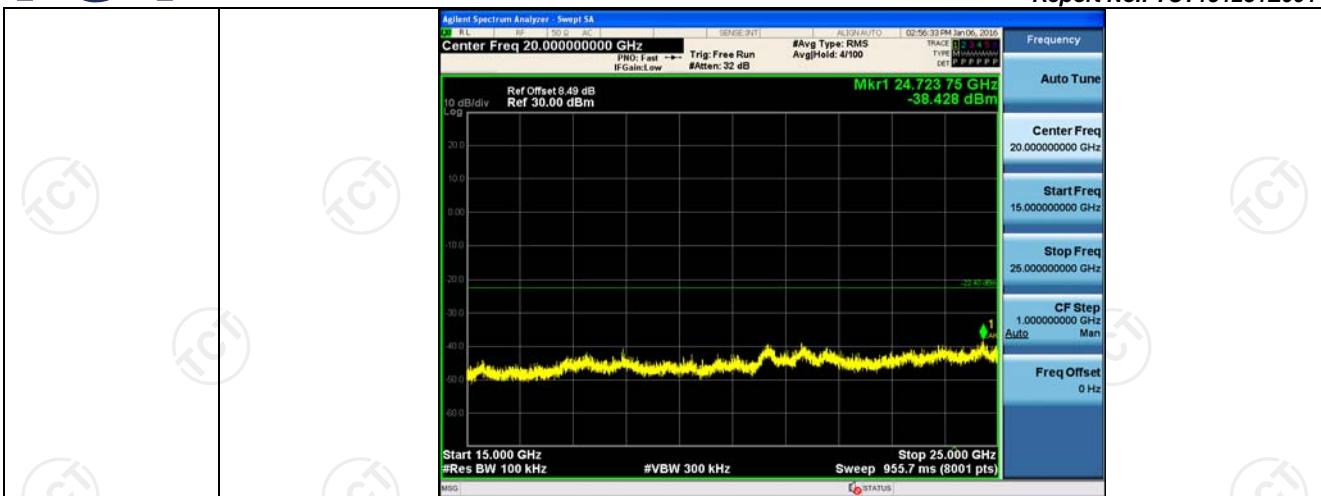


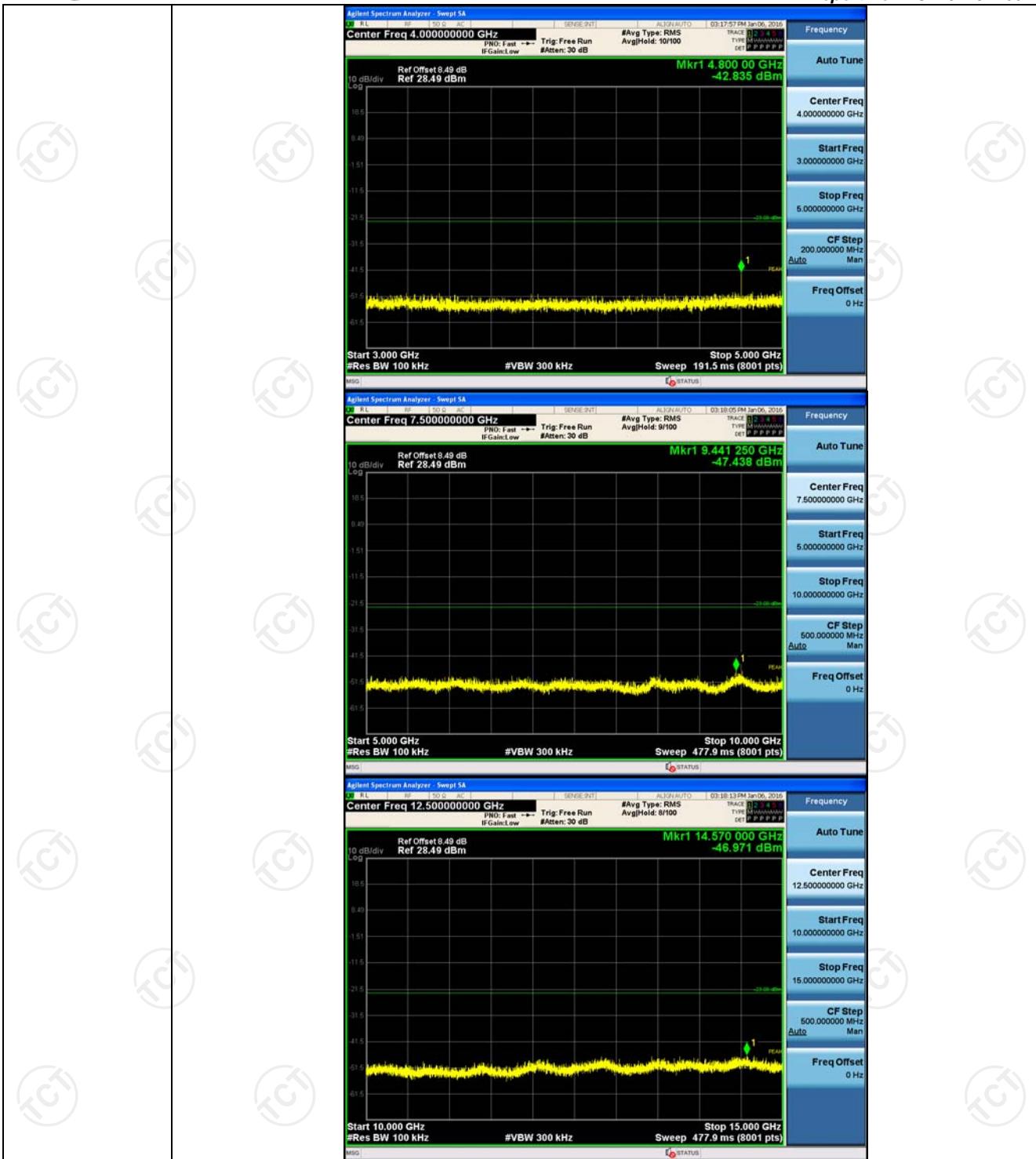


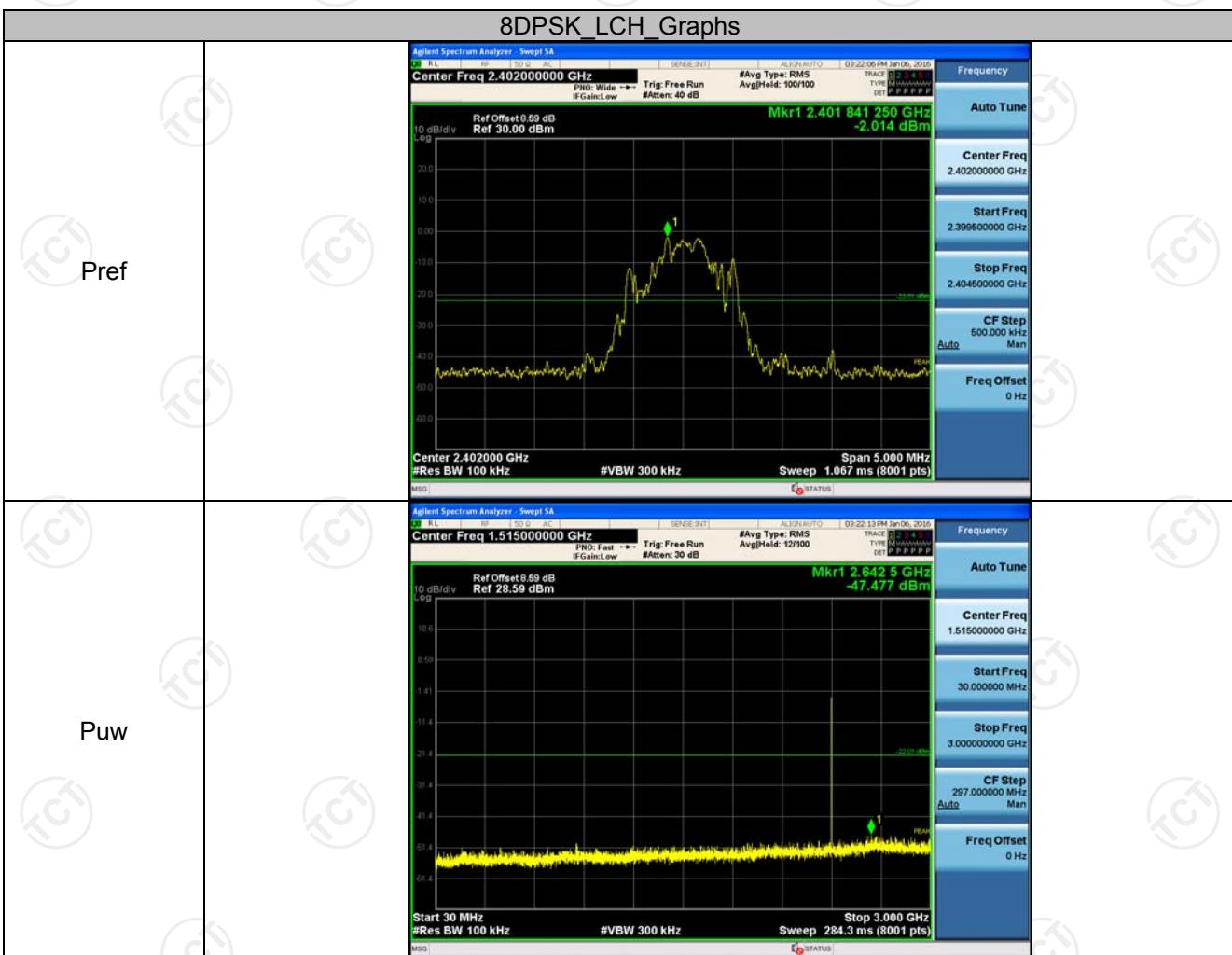
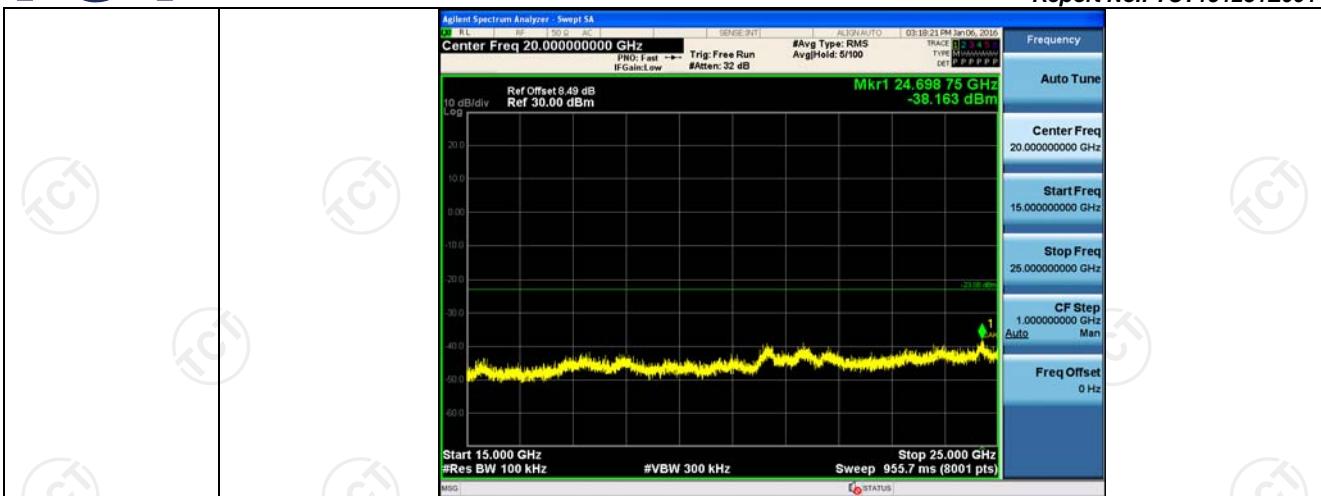


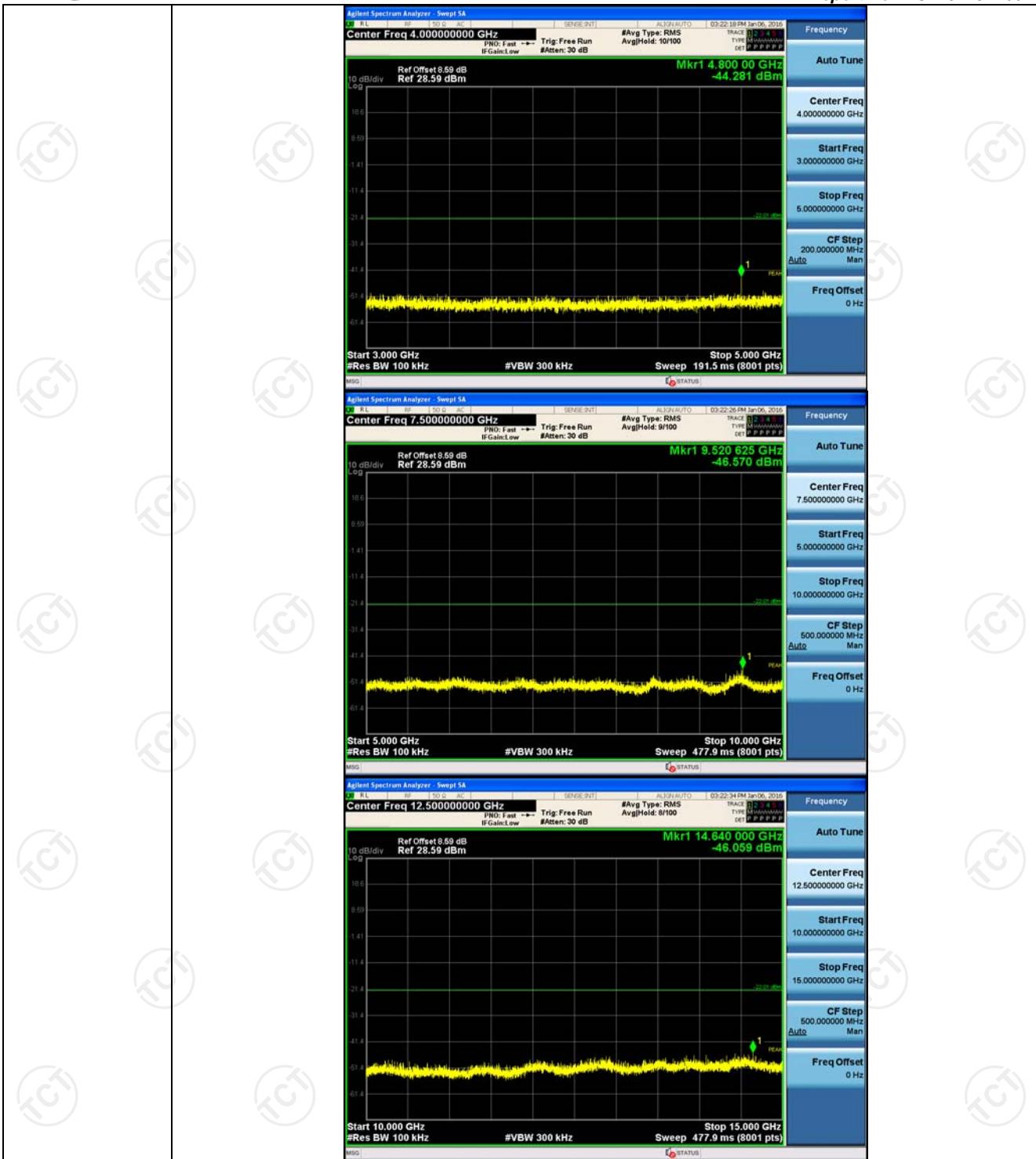


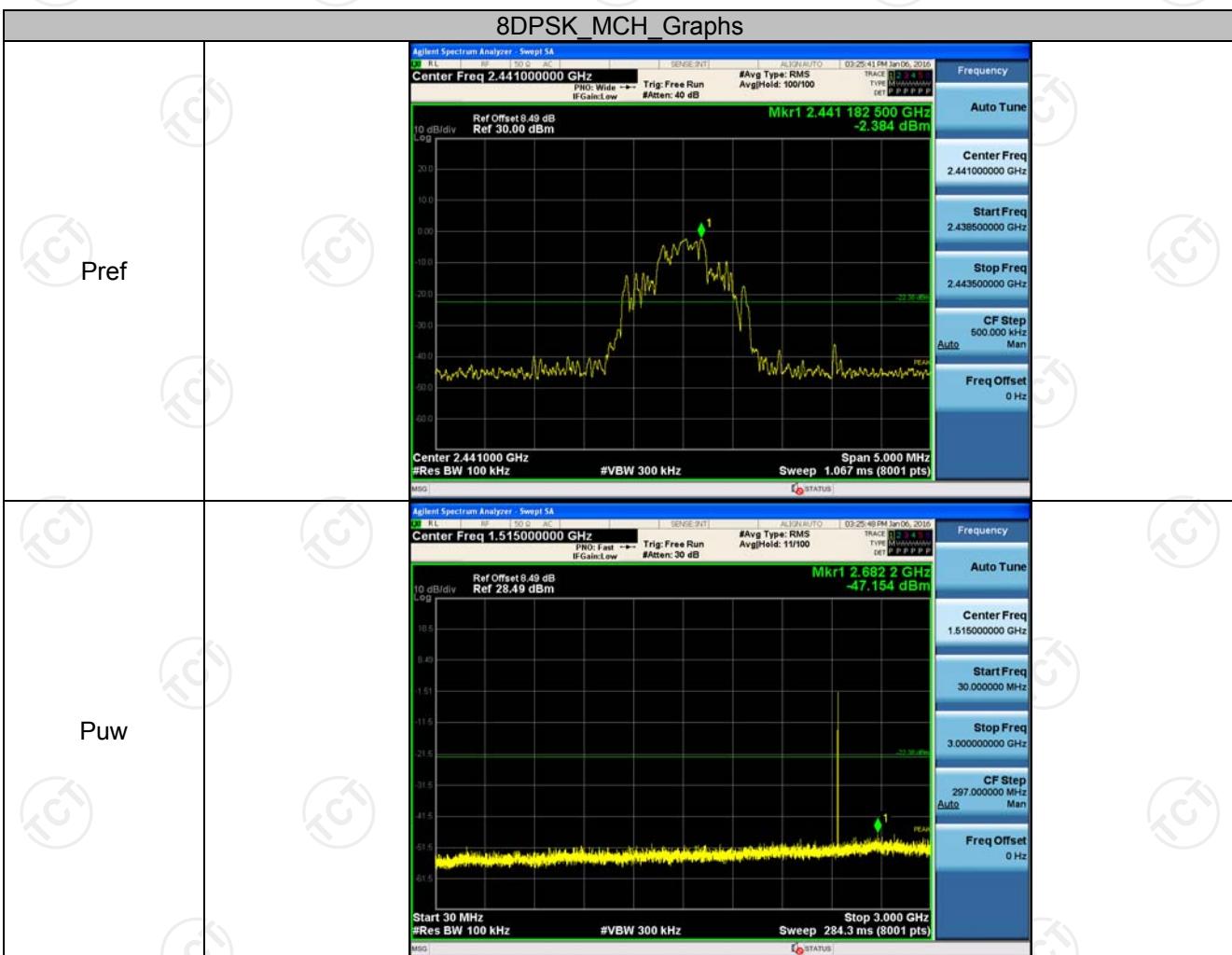
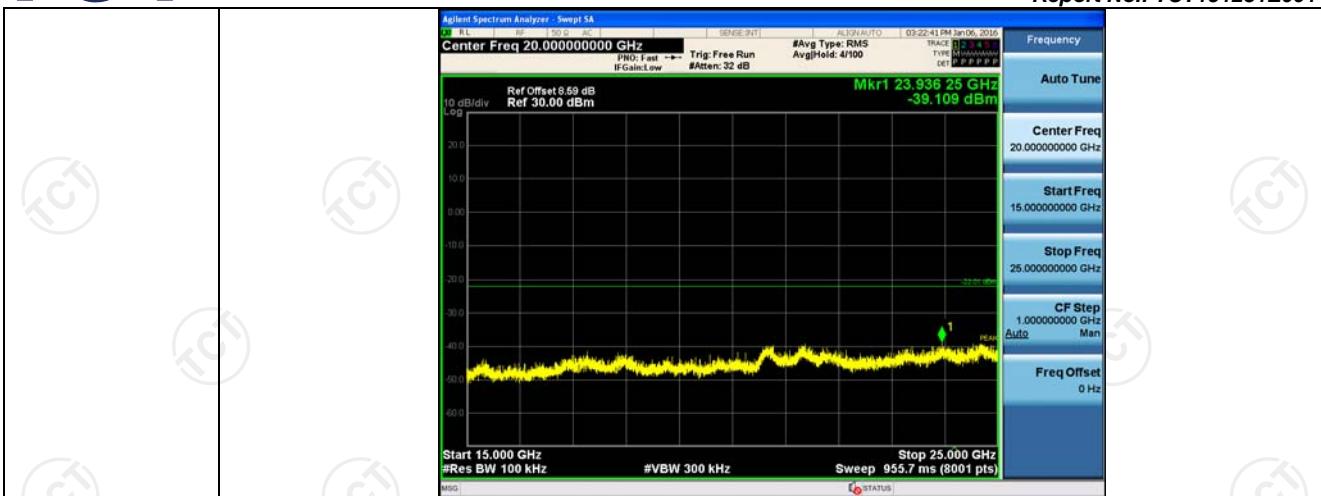


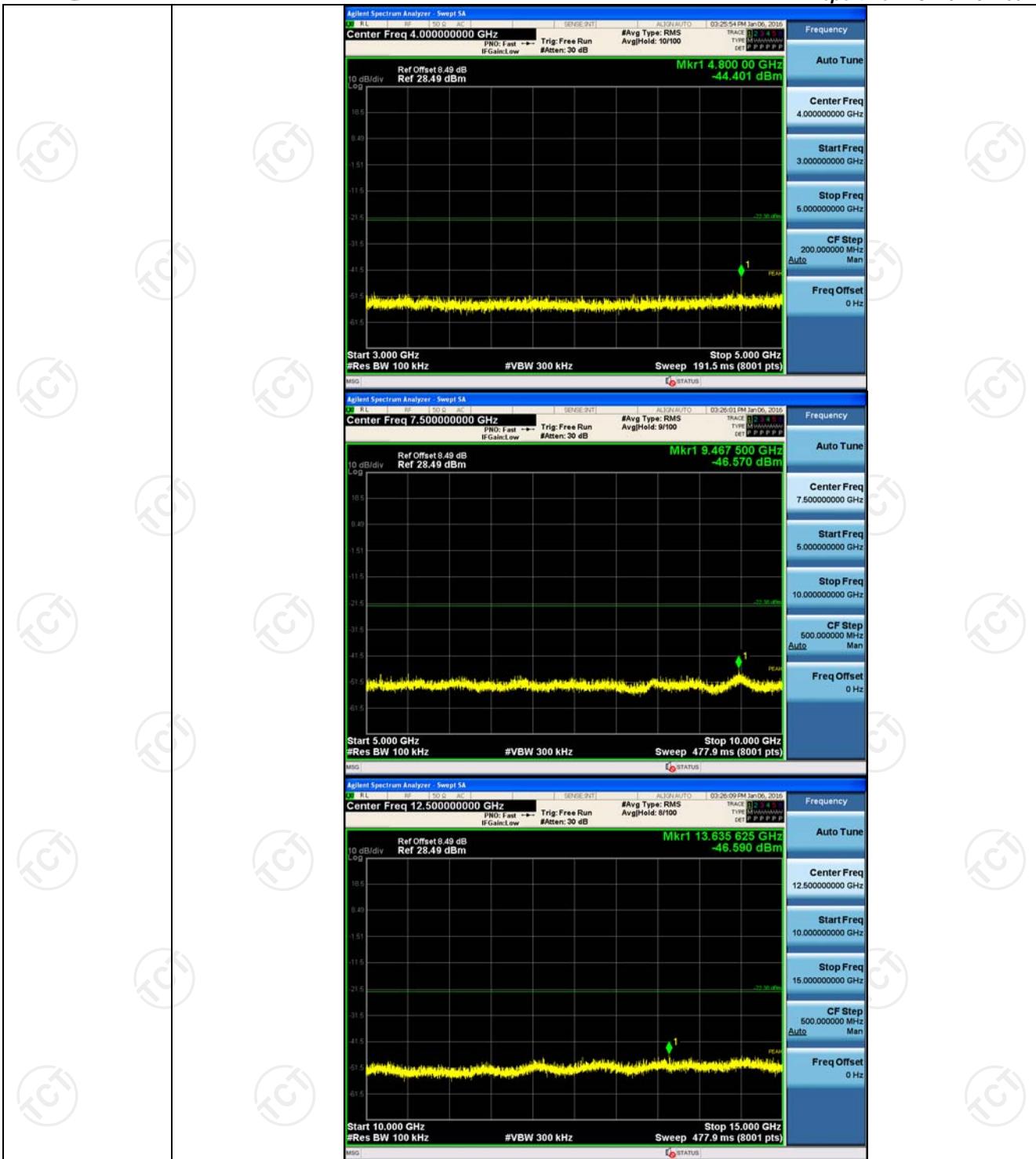


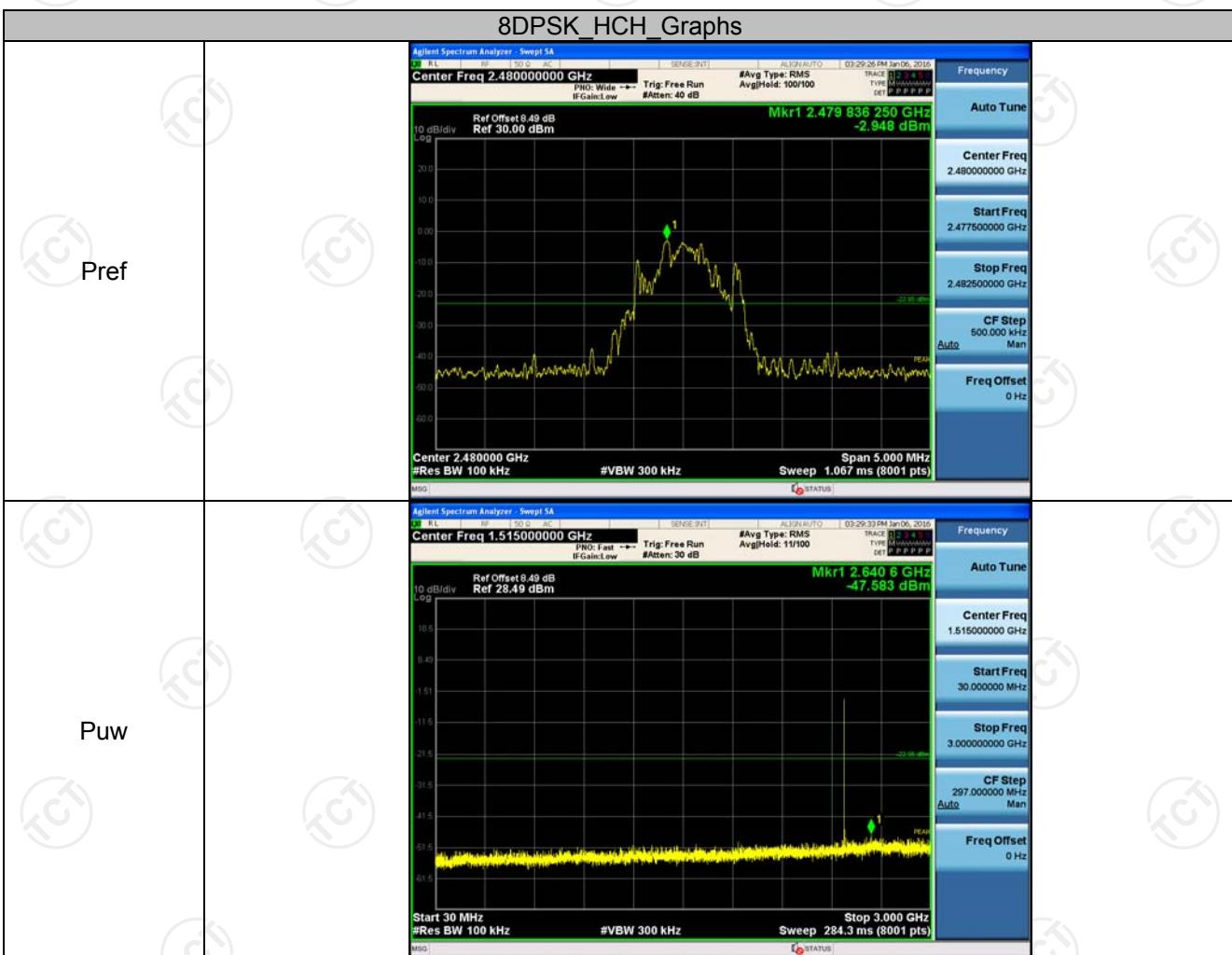
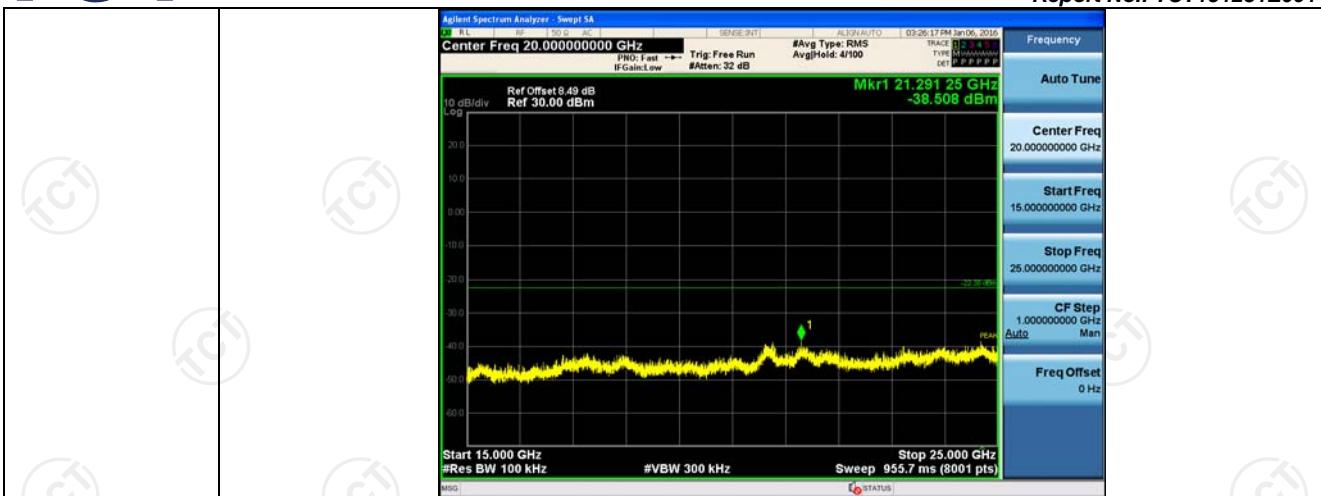


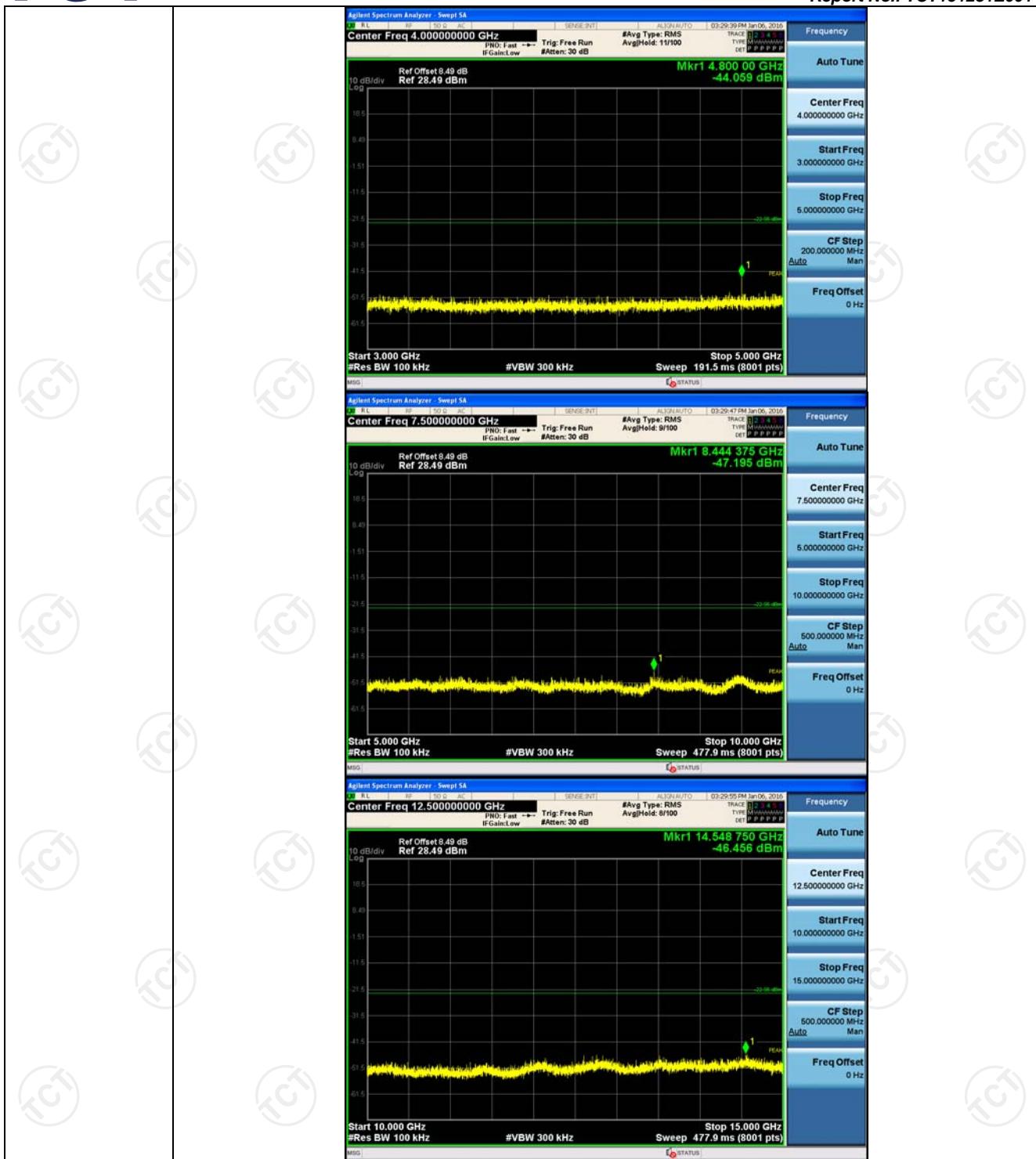


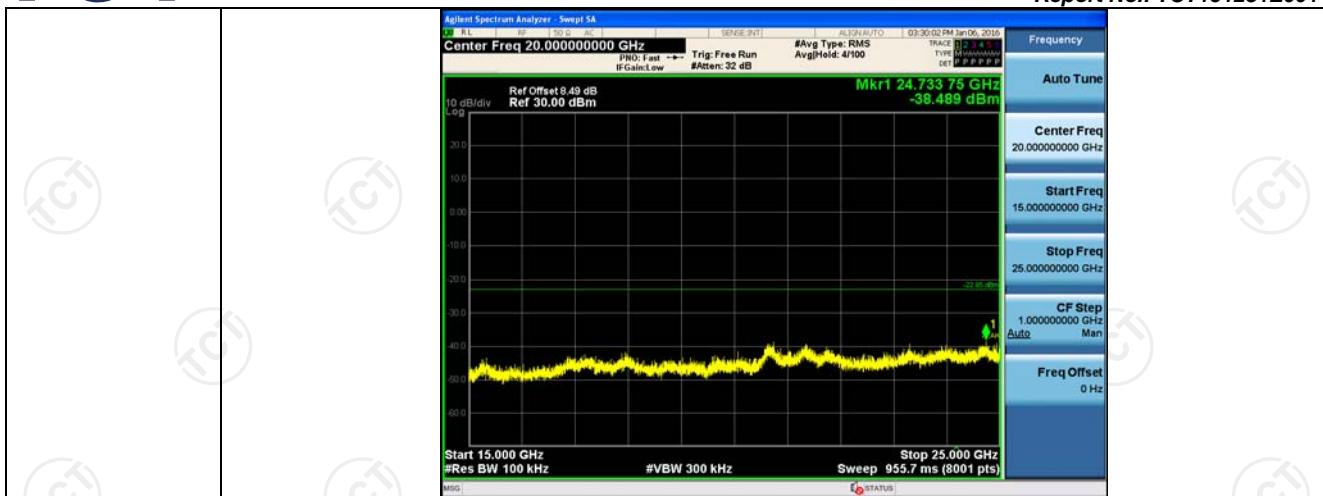












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