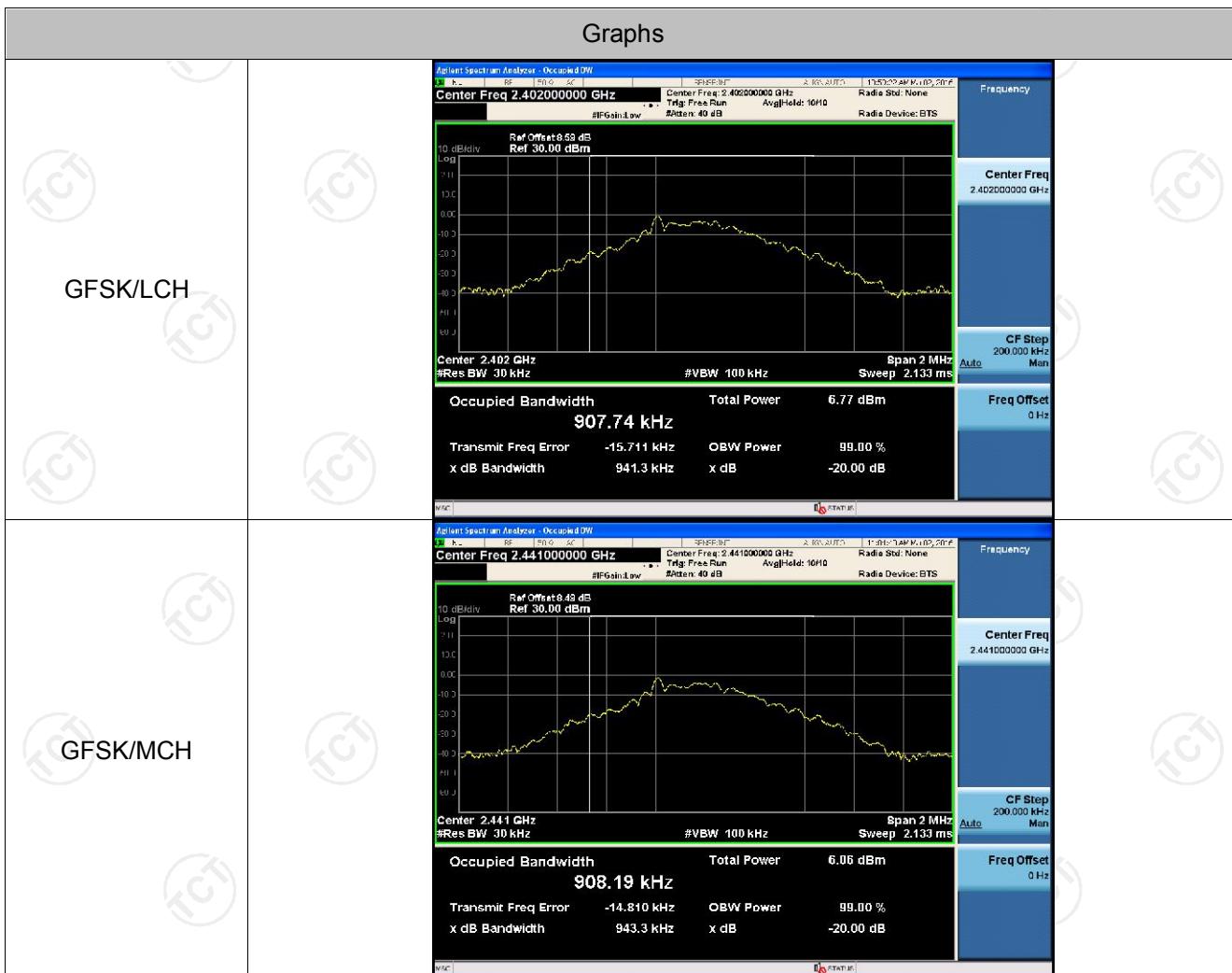


Appendix A: Test Result of Conducted Test 20dB Occupied Bandwidth

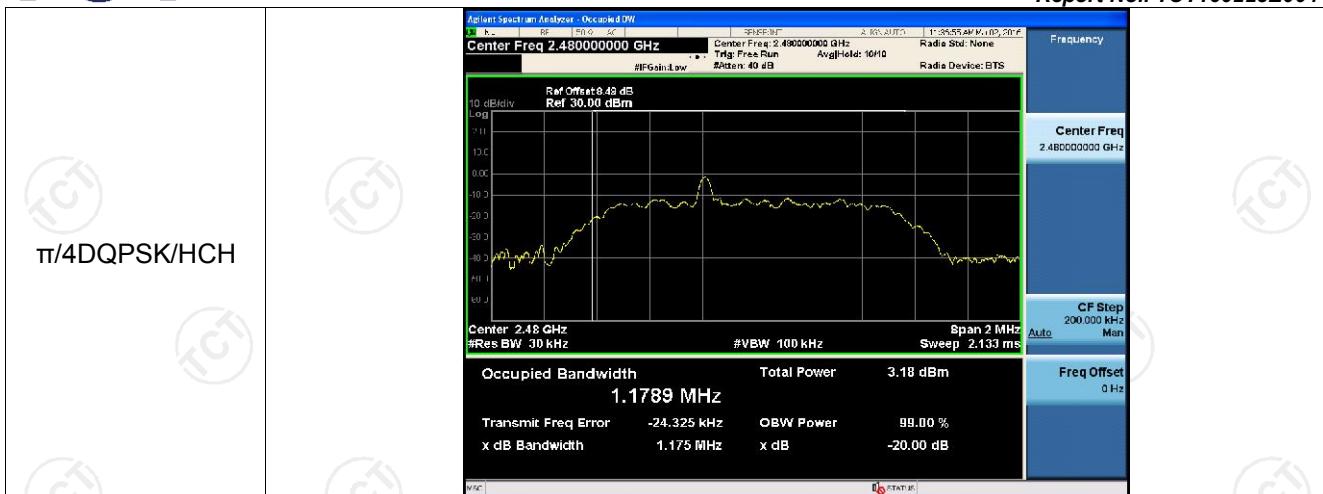
Test Result

Mode	Channel.	20dB Bandwidth [MHz]	99% OBW [MHz]	Verdict
GFSK	LCH	0.9413	0.90774	PASS
GFSK	MCH	0.9433	0.90819	PASS
GFSK	HCH	0.9430	0.90565	PASS
$\pi/4$ DQPSK	LCH	1.174	1.1791	PASS
$\pi/4$ DQPSK	MCH	1.173	1.1820	PASS
$\pi/4$ DQPSK	HCH	1.175	1.1789	PASS

Test Graph







Carrier Frequency Separation

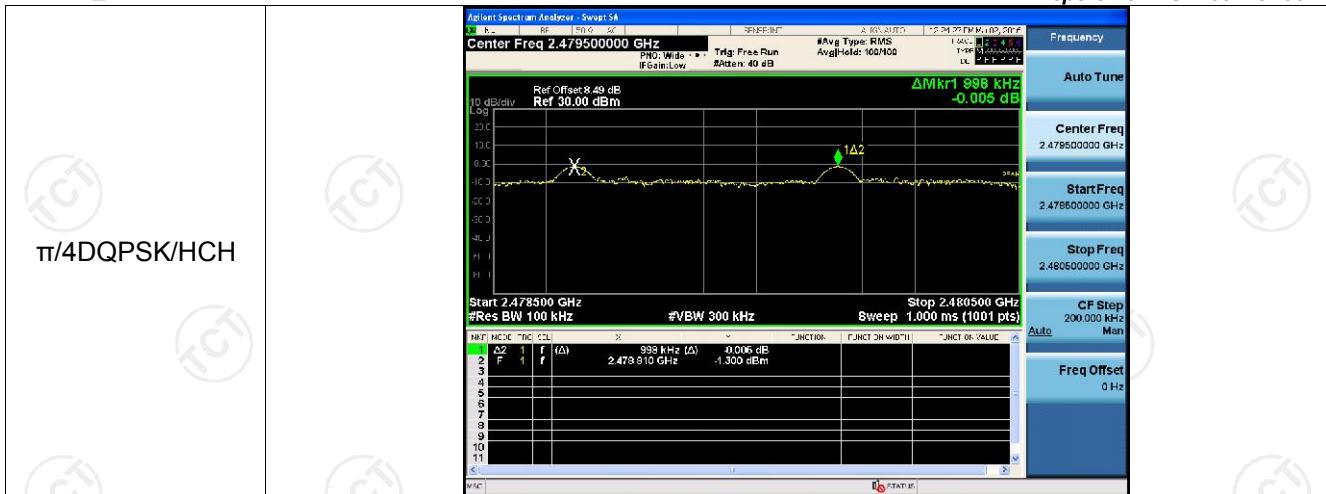
Result Table

Mode	Channel.	Carrier Frequency Separation [MHz]	Verdict
GFSK	LCH	1.054	PASS
GFSK	MCH	0.880	PASS
GFSK	HCH	1.022	PASS
$\pi/4$ DQPSK	LCH	1.016	PASS
$\pi/4$ DQPSK	MCH	1.000	PASS
$\pi/4$ DQPSK	HCH	0.998	PASS

Test Graph







Dwell Time

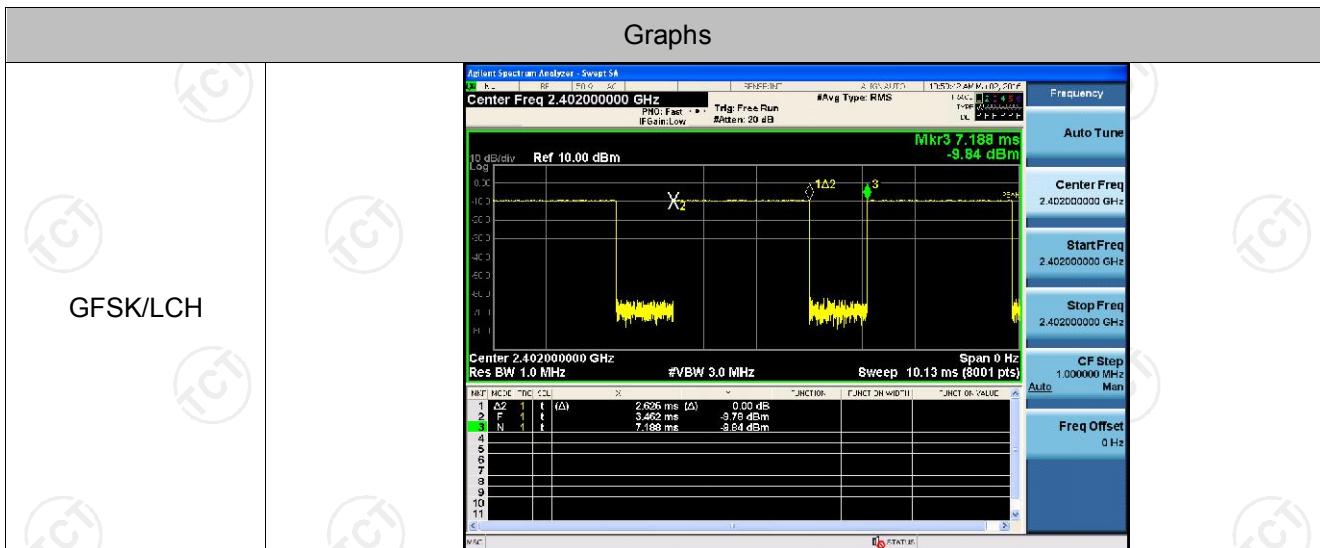
Result Table

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

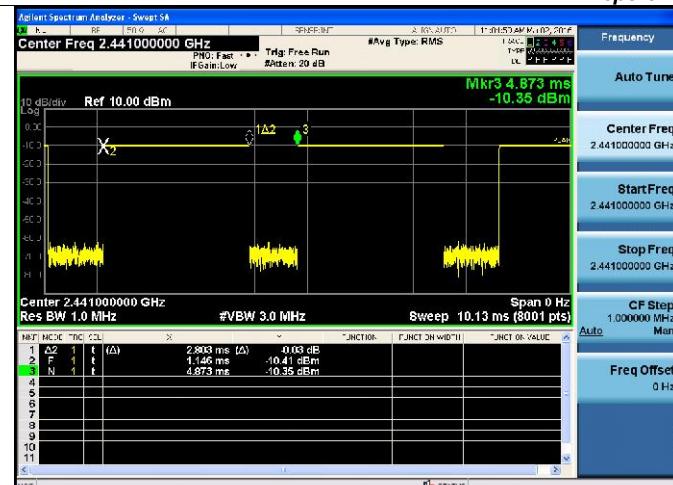
- The duration for dwell time calculation: $0.4[\text{s}]*\text{hopping number}=0.4[\text{s}]*79[\text{ch}]=31.6[\text{s}*\text{ch}]$;
- The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.
- The hops per second for all channels: The selected EUT Conf uses 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 [%]	Verdict
GFSK	LCH	2.625	106.7	0.280	70.43	PASS
GFSK	MCH	2.803	106.7	0.299	75.22	PASS
GFSK	HCH	2.801	106.7	0.299	72.25	PASS
$\pi/4$ DQPSK	LCH	2.804	106.7	0.299	72.21	PASS
$\pi/4$ DQPSK	MCH	2.666	106.7	0.284	71.45	PASS
$\pi/4$ DQPSK	HCH	2.654	106.7	0.283	71.09	PASS

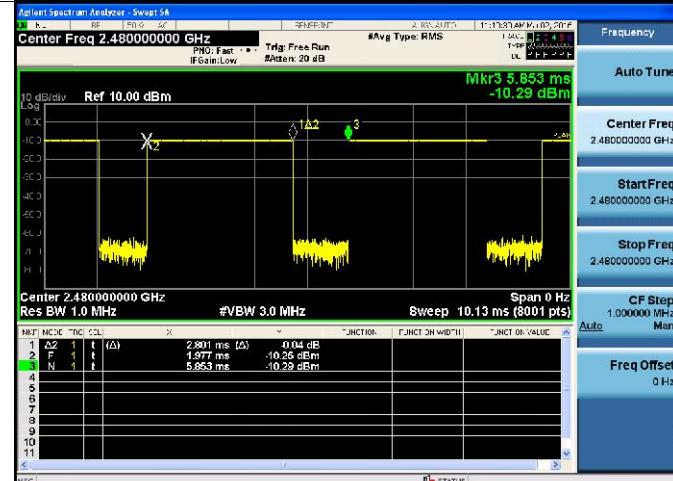
Test Graph



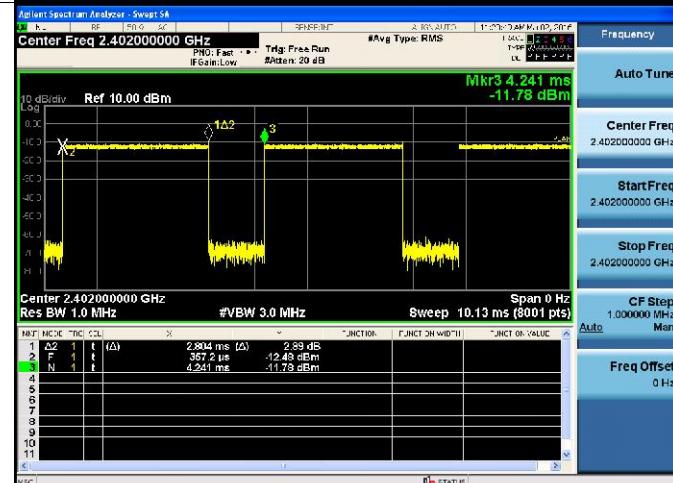
GFSK/MCH



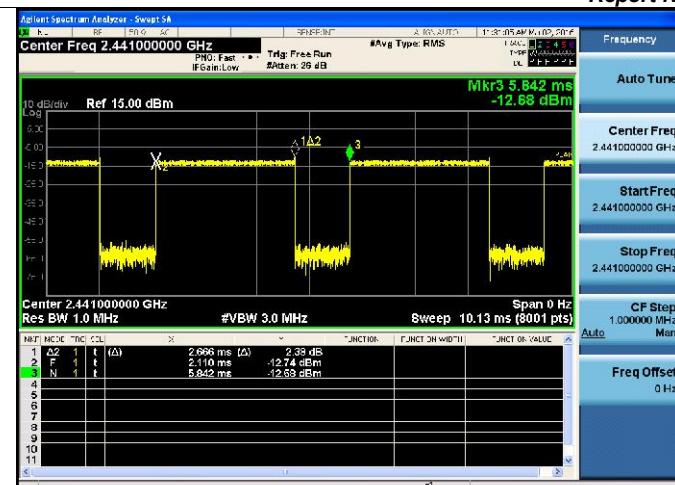
GFSK/HCH



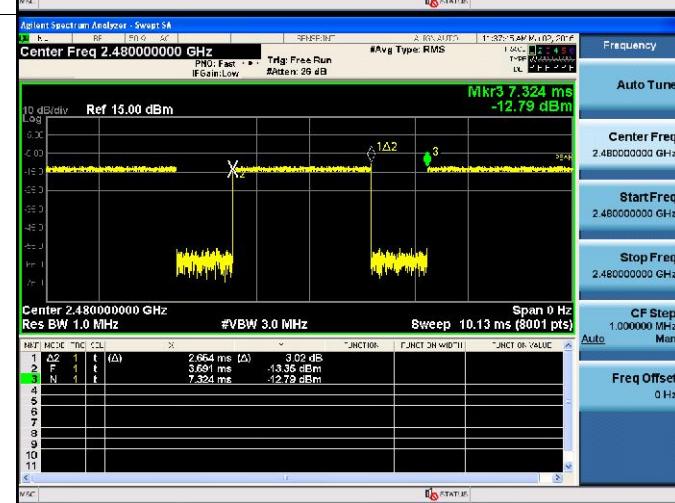
π/4DQPSK/LCH



$\pi/4$ DQPSK/MCH



$\pi/4$ DQPSK/HCH

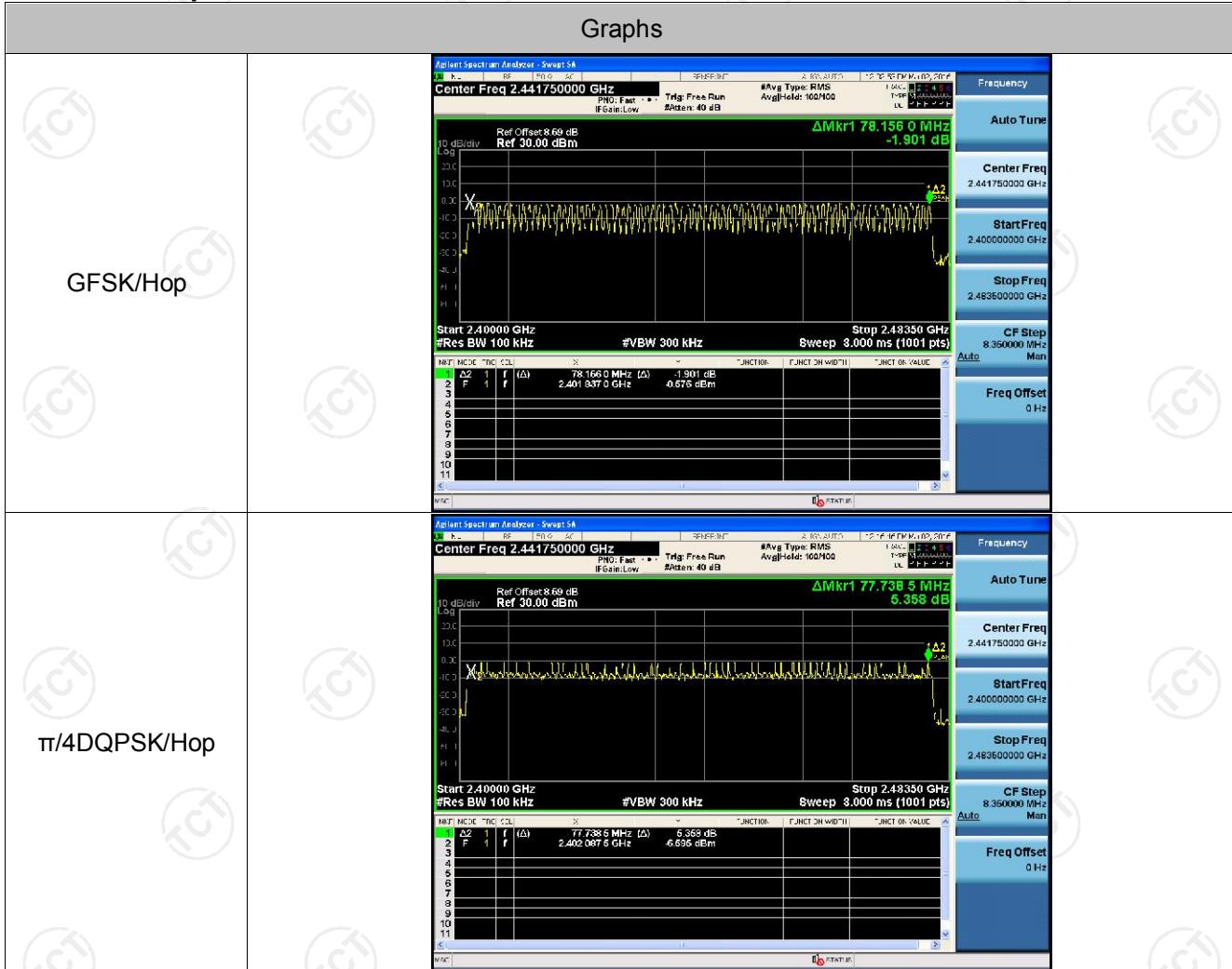


Hopping Channel Number

Result Table

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

Test Graph



Conducted Peak Output Power

Result Table

Mode	Channel.	Maximum Peak Output Power [dBm]	Verdict
GFSK	LCH	-0.260	PASS
GFSK	MCH	-0.895	PASS
GFSK	HCH	-0.895	PASS
$\pi/4$ DQPSK	LCH	-0.174	PASS
$\pi/4$ DQPSK	MCH	-1.014	PASS
$\pi/4$ DQPSK	HCH	-1.024	PASS

Test Graph



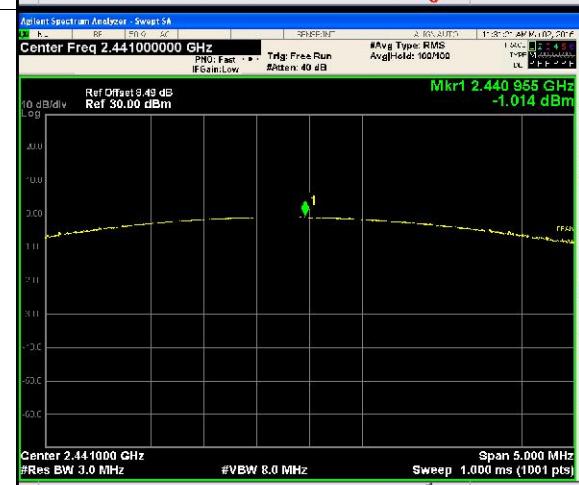
GFSK/HCH



π/4DQPSK/LCH



π/4DQPSK/MCH



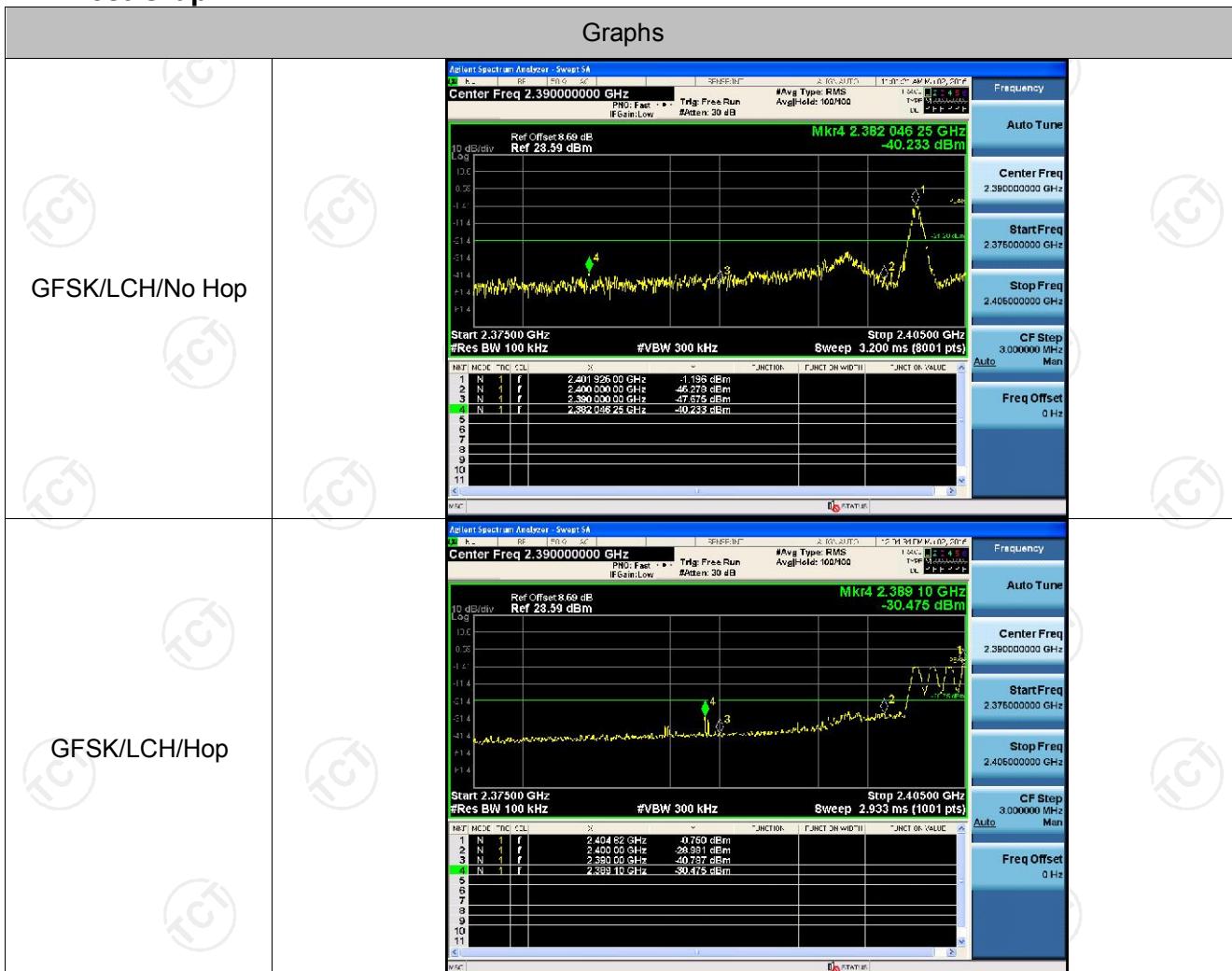


Band-edge for RF Conducted Emissions

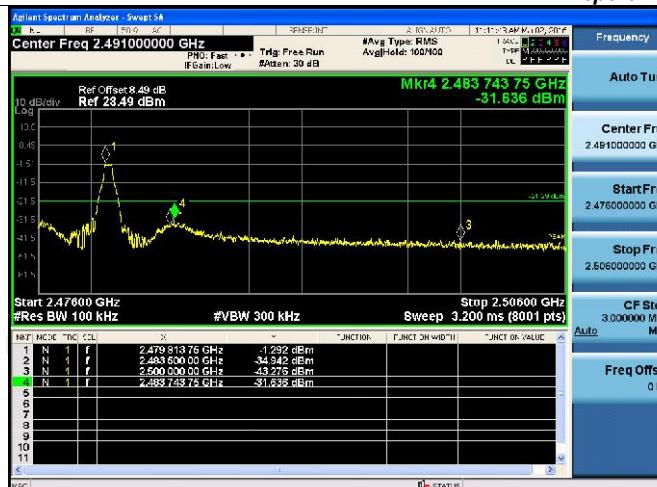
Result Table

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	-1.196	Off	-40.233	-21.2	PASS
			-0.750	On	-30.475	-20.75	PASS
GFSK	HCH	2480	-1.292	Off	-31.636	-21.29	PASS
			5.135	On	-23.980	-14.87	PASS
$\pi/4$ DQPSK	LCH	2402	-6.601	Off	-39.019	-26.6	PASS
			-0.704	On	-33.066	-20.7	PASS
$\pi/4$ DQPSK	HCH	2480	-1.353	Off	-33.402	-21.35	PASS
			-7.508	On	-39.232	-27.51	PASS

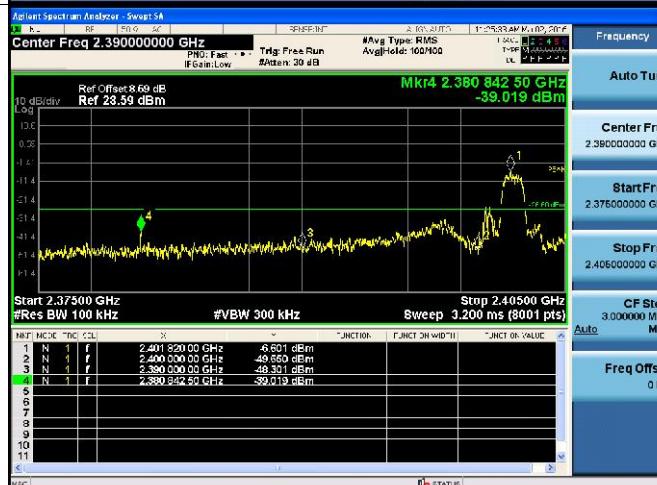
Test Graph



GFSK/HCH/No Hop



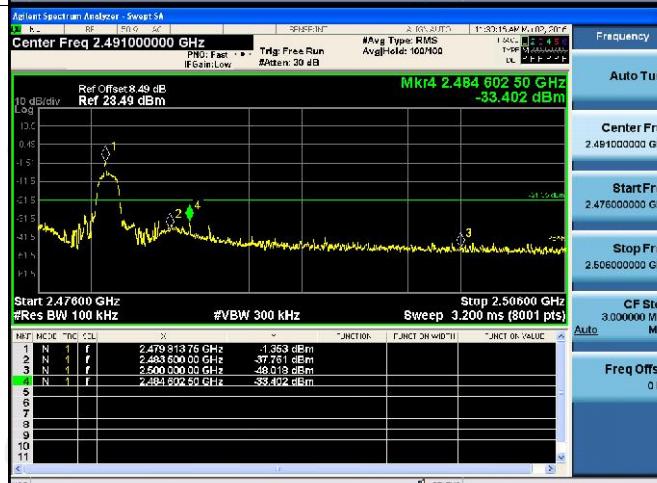
GFSK/HCH/Hop


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


$\pi/4$ DQPSK/LCH/Hop



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



$\pi/4$ DQPSK/HCH/Hop

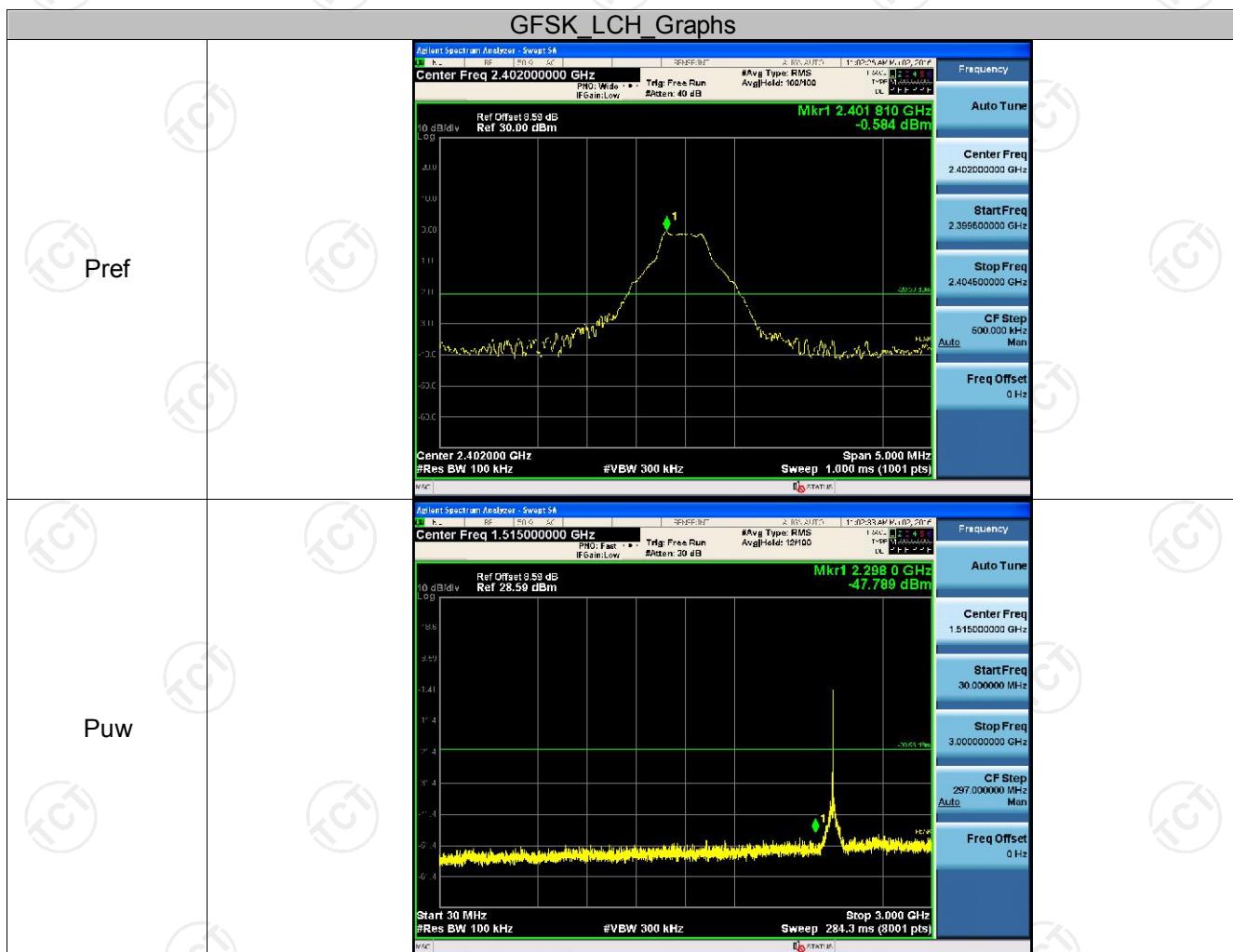


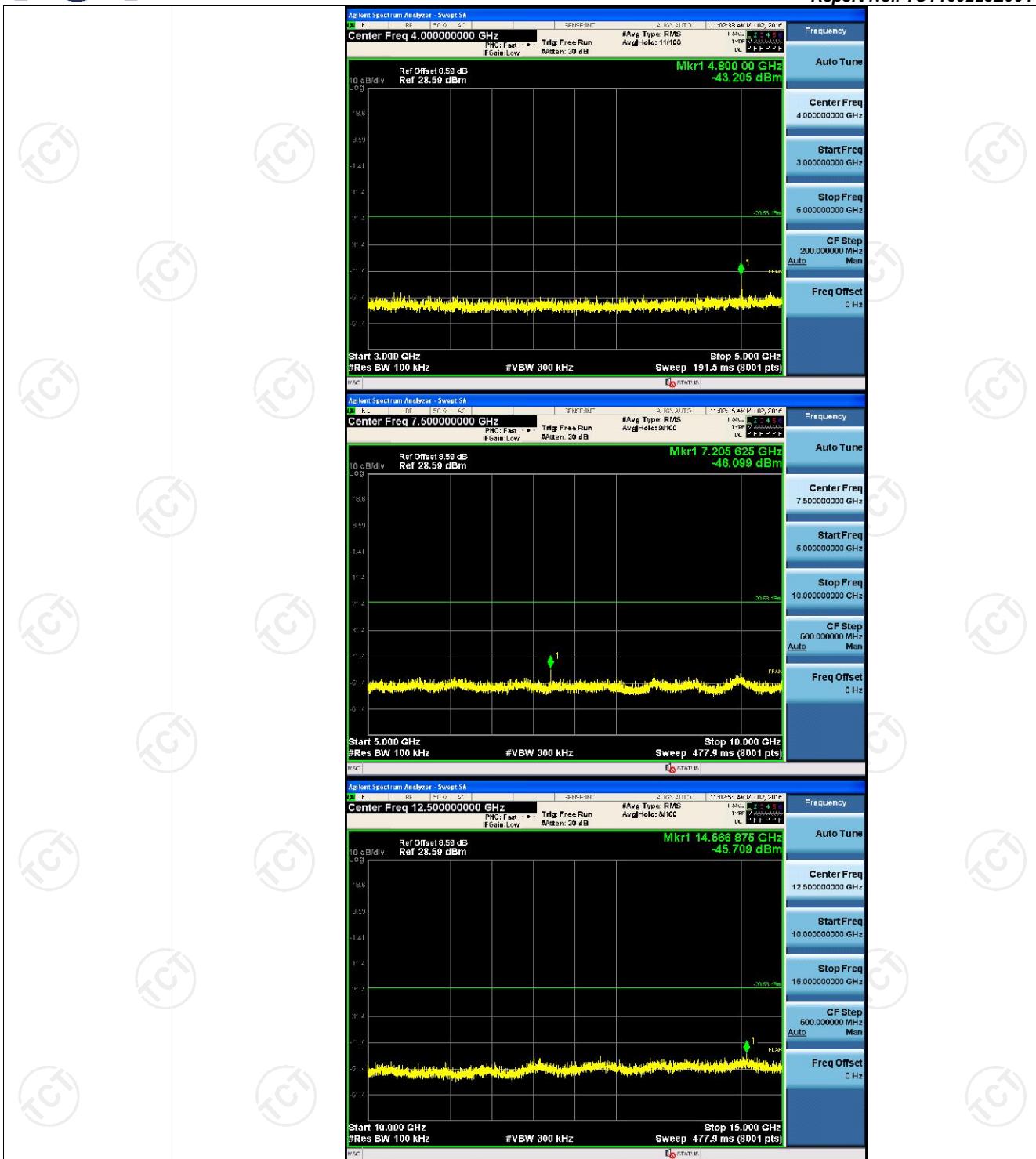
RF Conducted Spurious Emissions

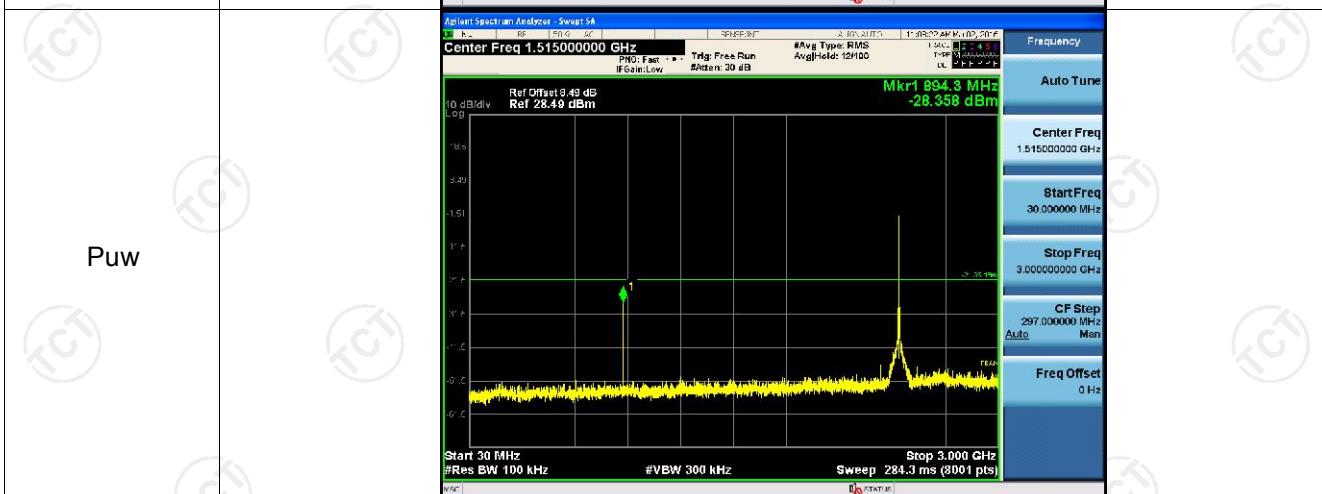
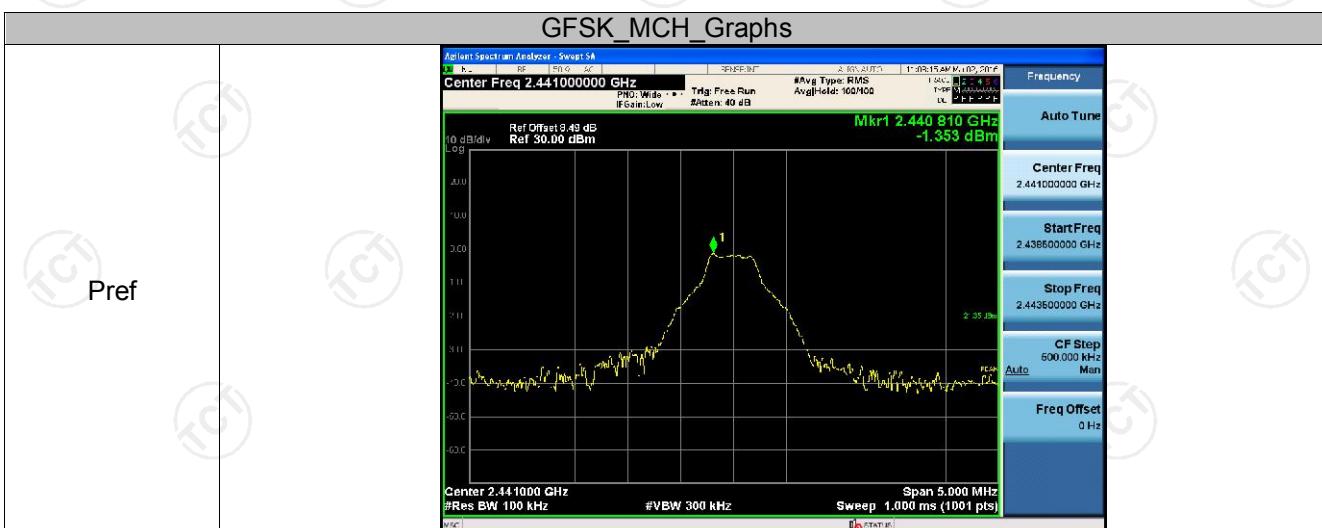
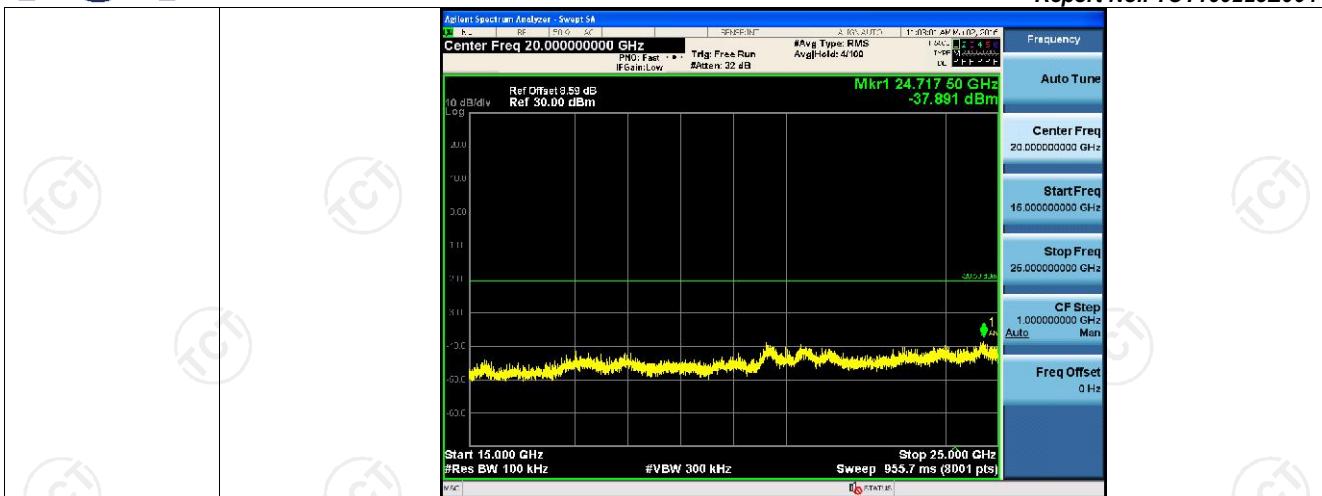
Result Table

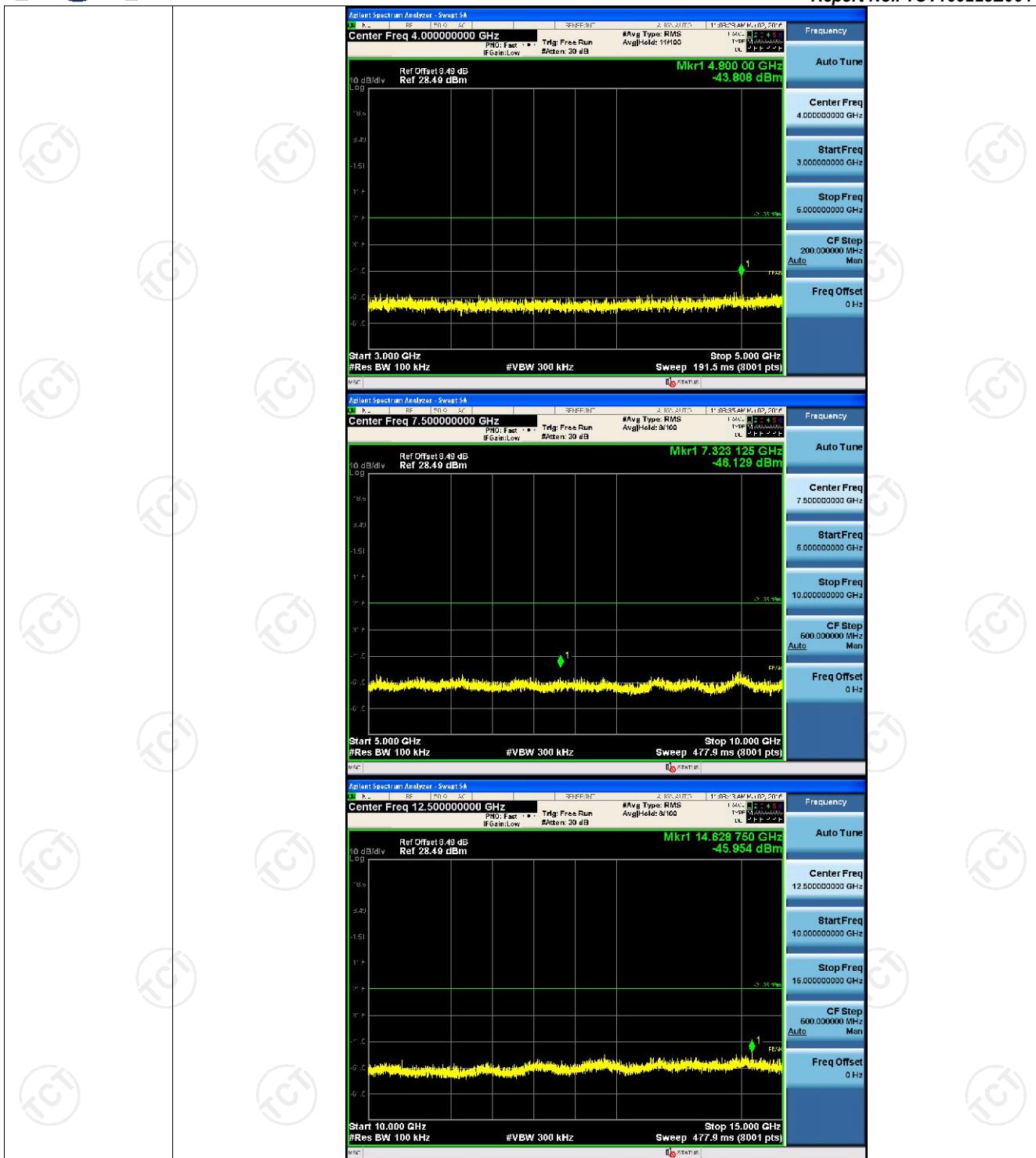
Mode	Channel	Pref [dBm]	Puw[dBm]	Verdict
GFSK	LCH	-0.584	<Limit	PASS
GFSK	MCH	-1.353	<Limit	PASS
GFSK	HCH	-1.221	<Limit	PASS
GFSK	LCH	-2.158	<Limit	PASS
$\pi/4$ DQPSK	MCH	-1.34	<Limit	PASS
$\pi/4$ DQPSK	HCH	-1.309	<Limit	PASS

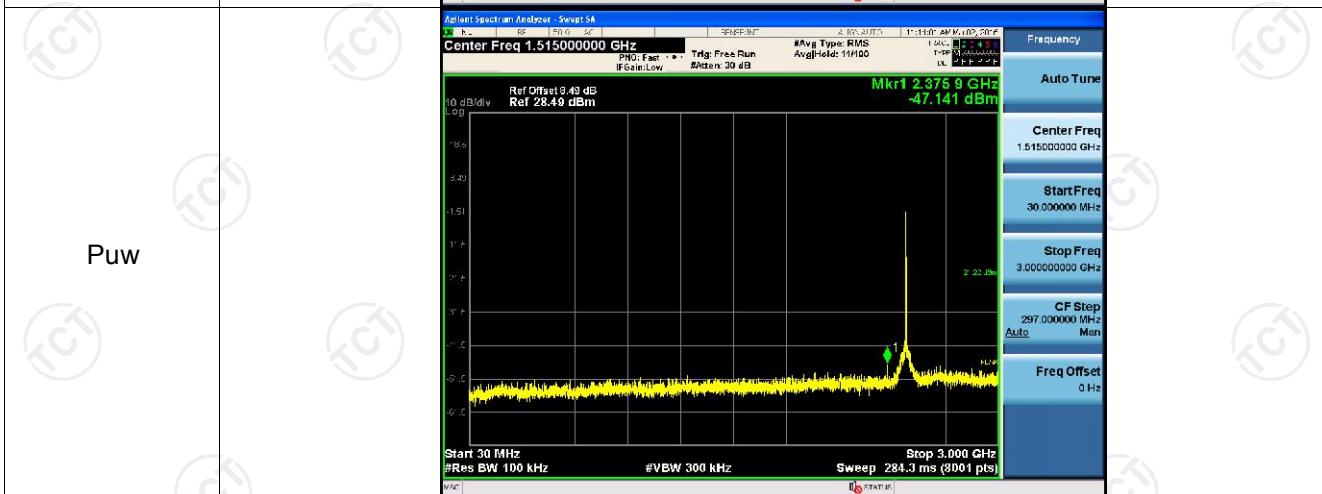
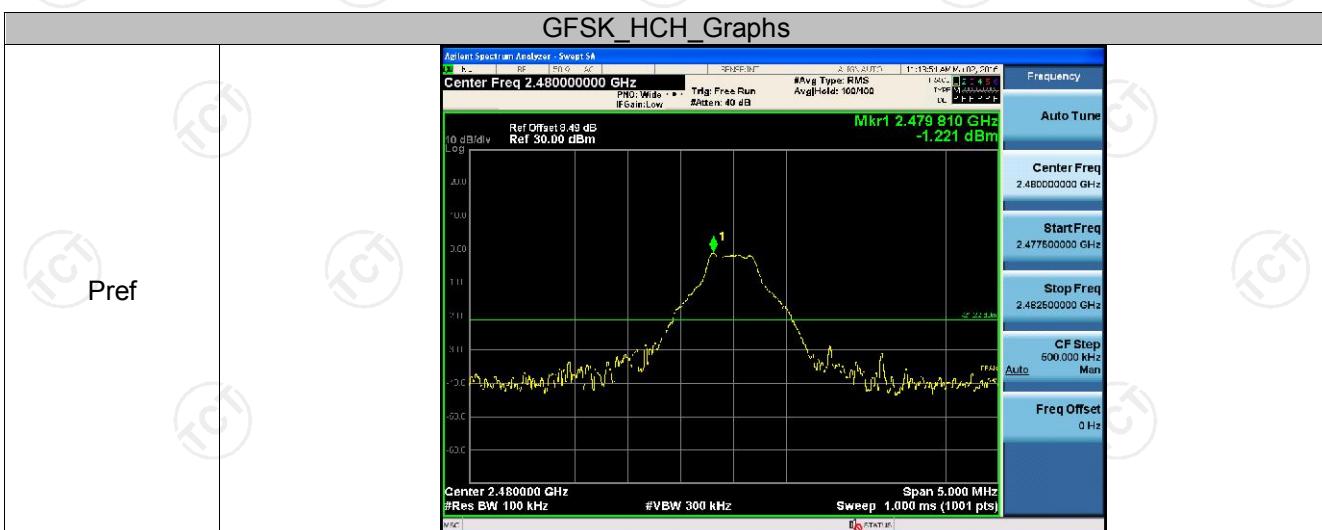
Test Graph

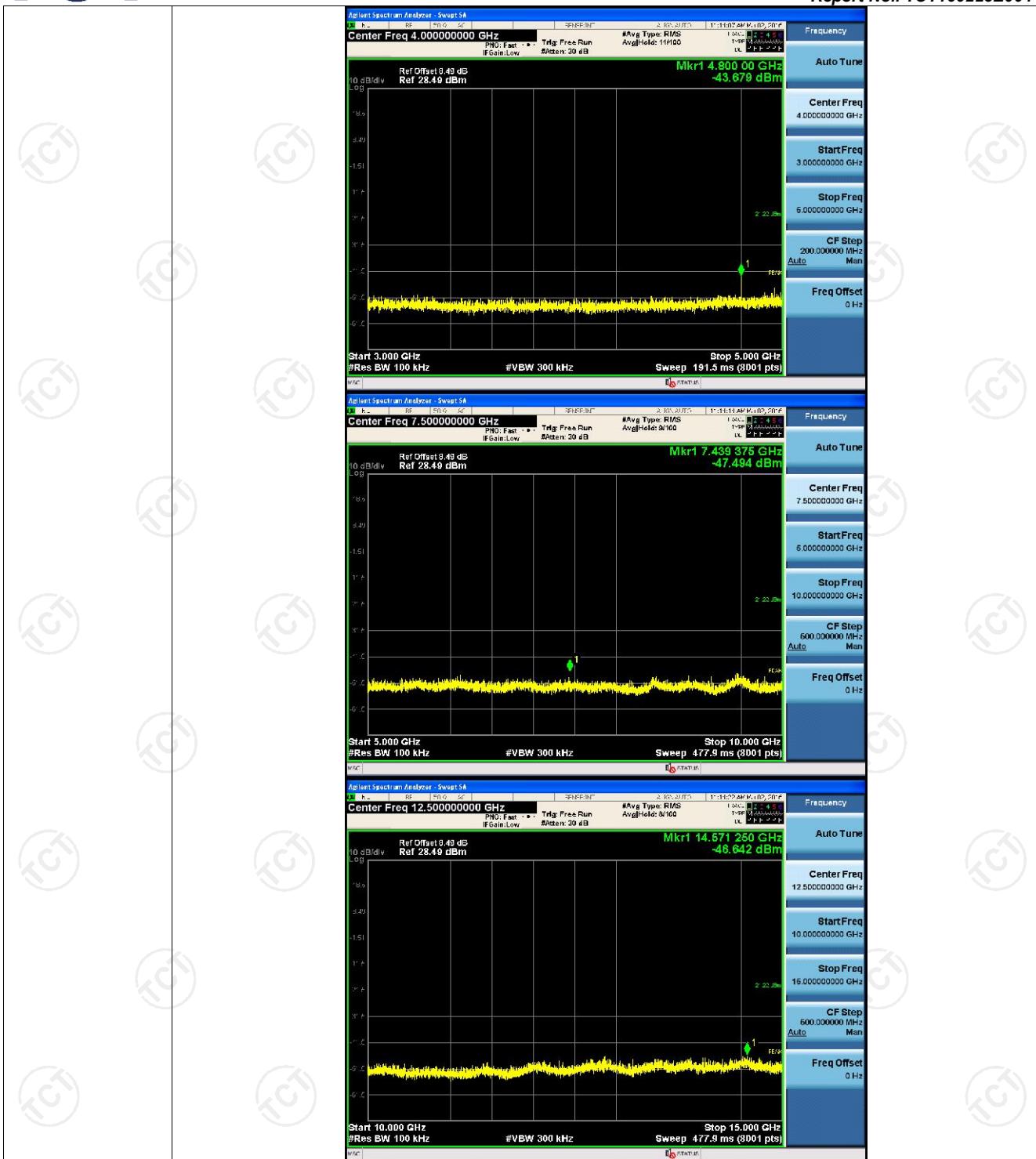


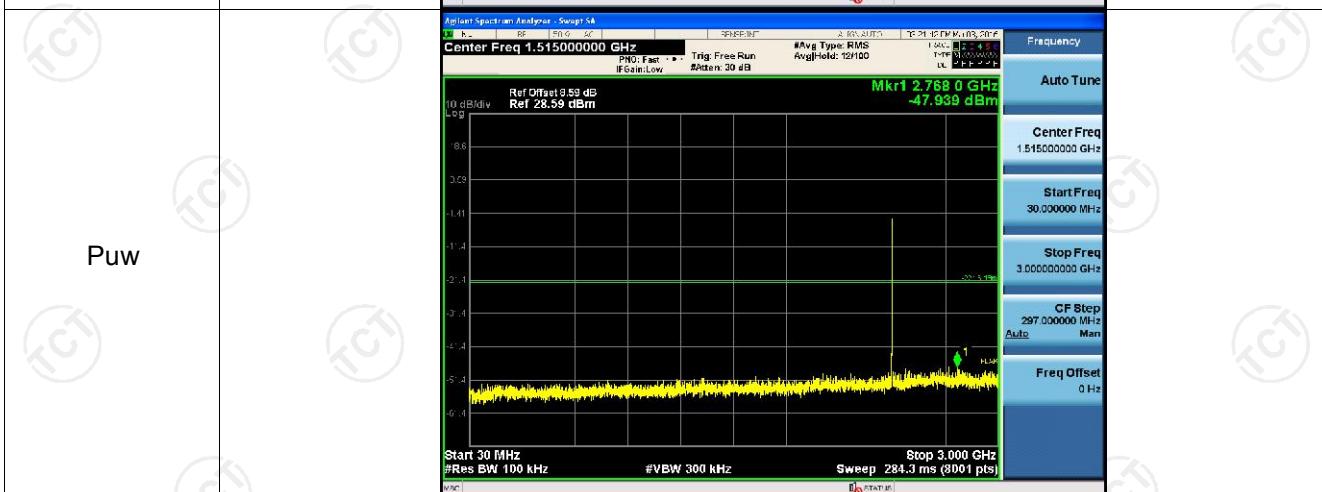
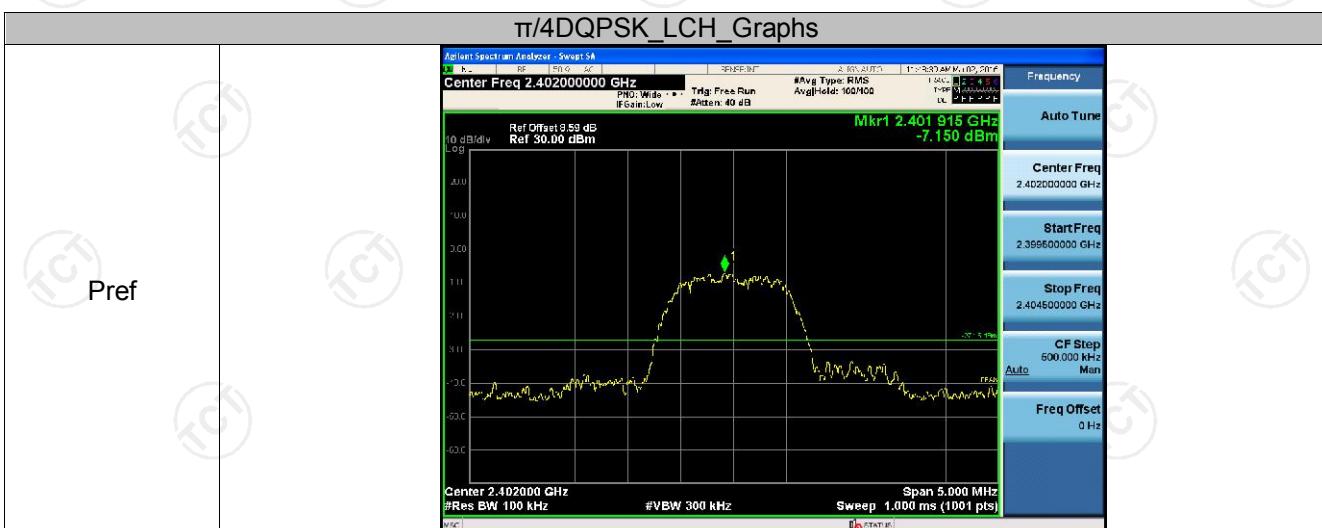
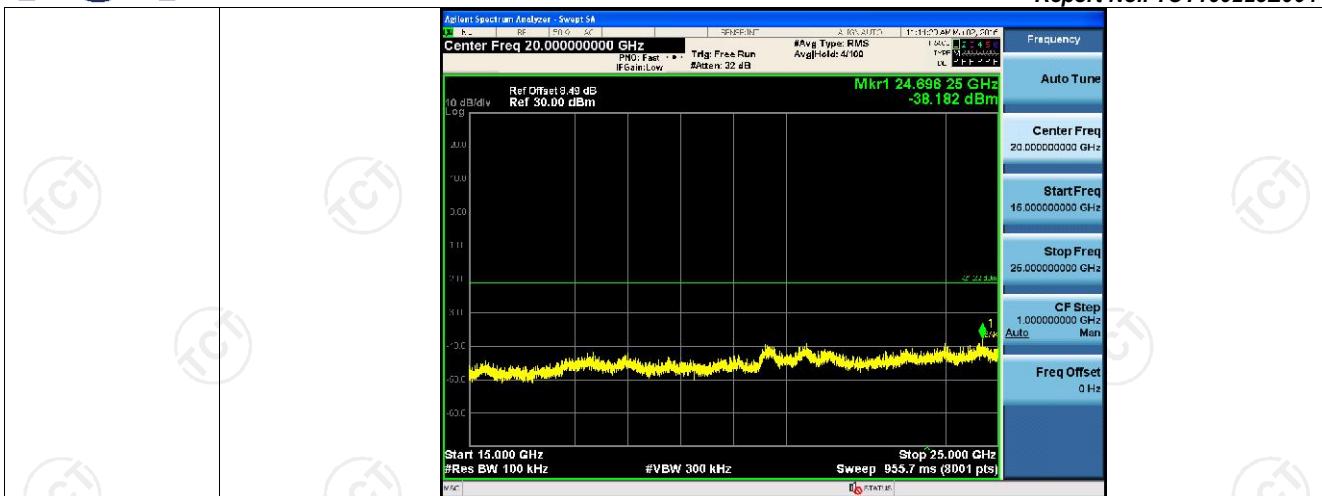


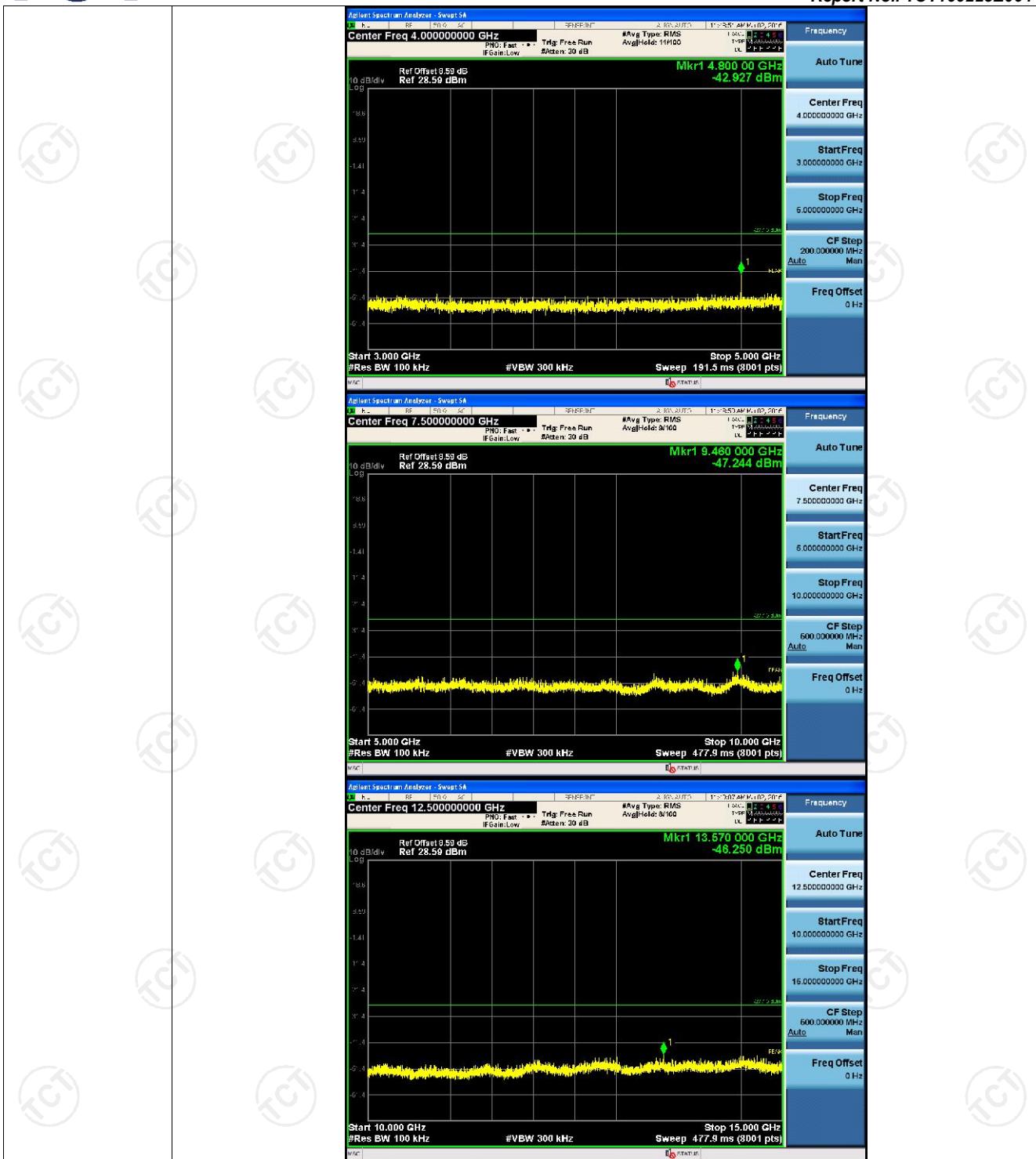


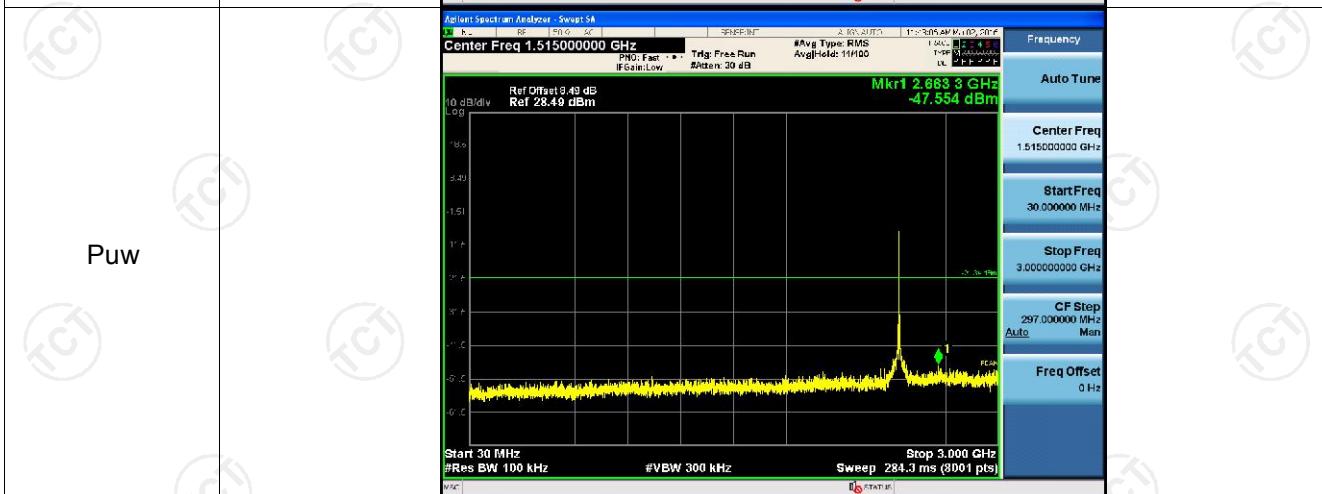
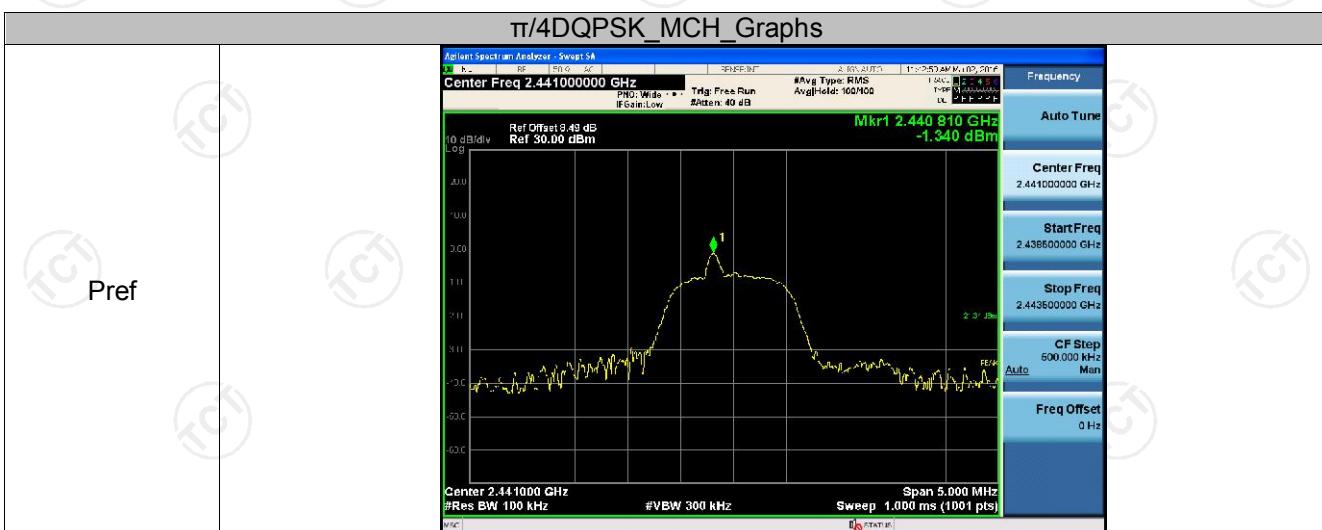
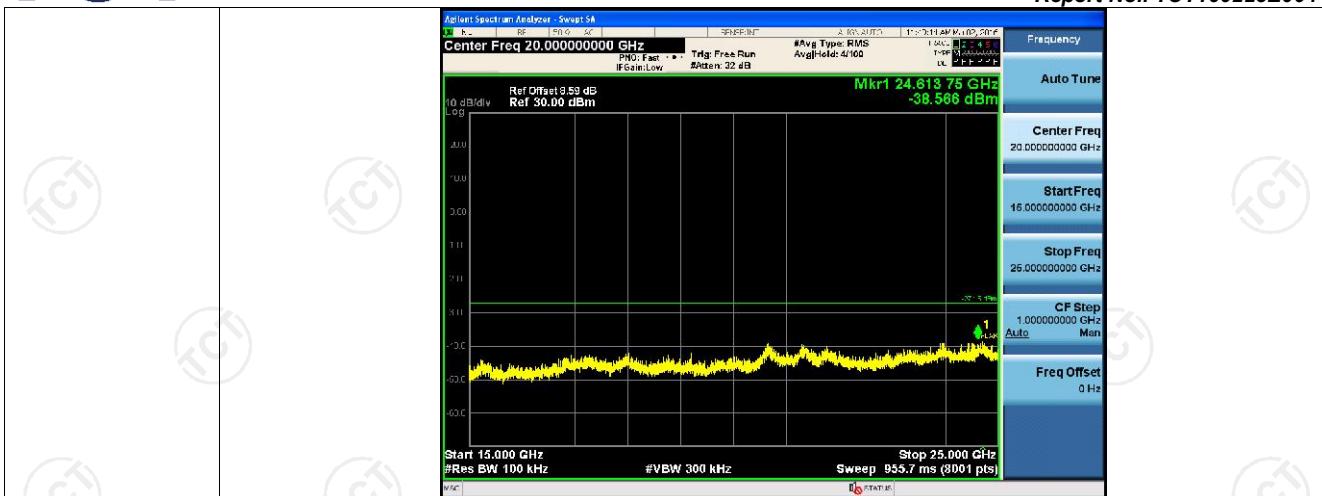


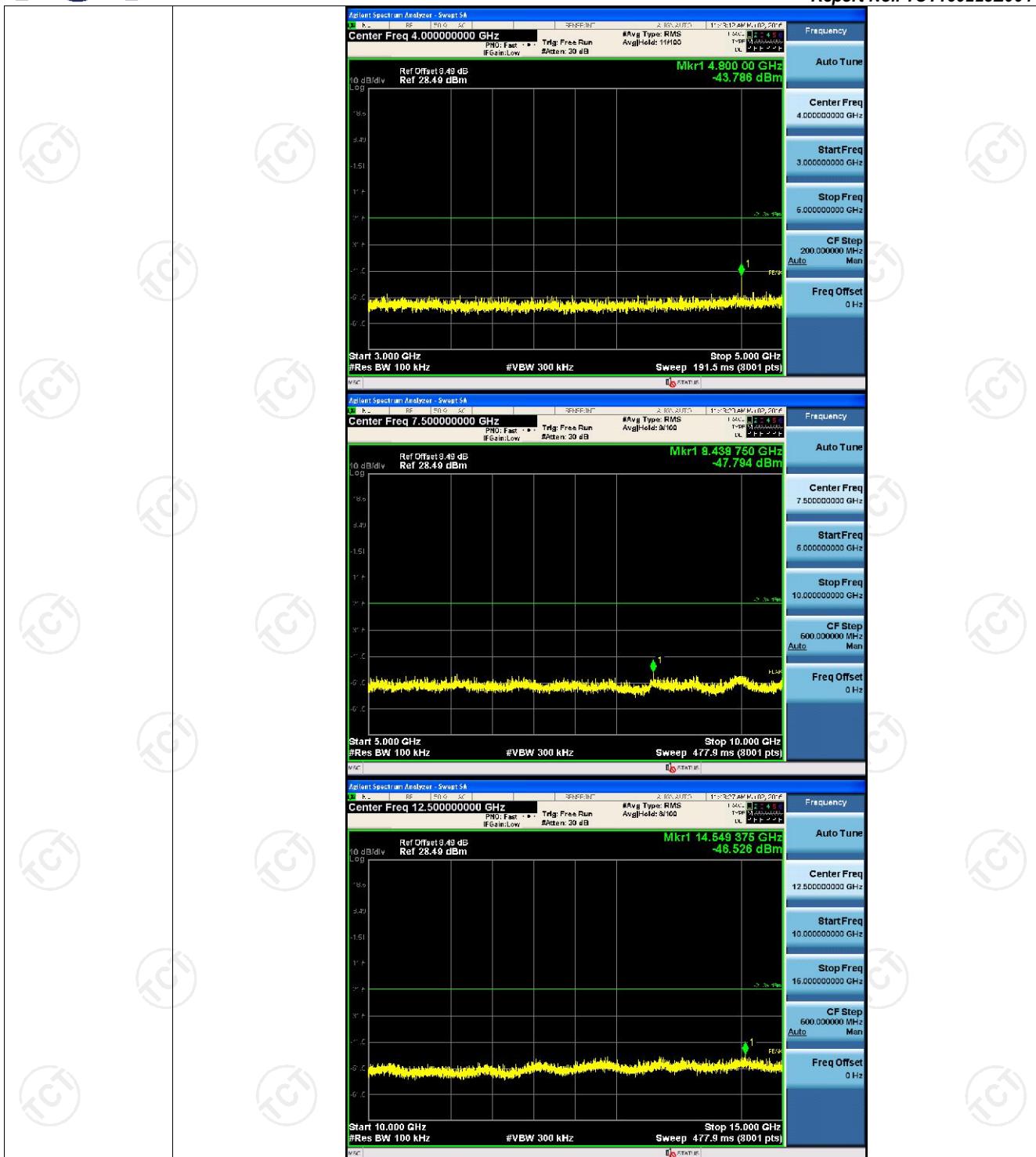


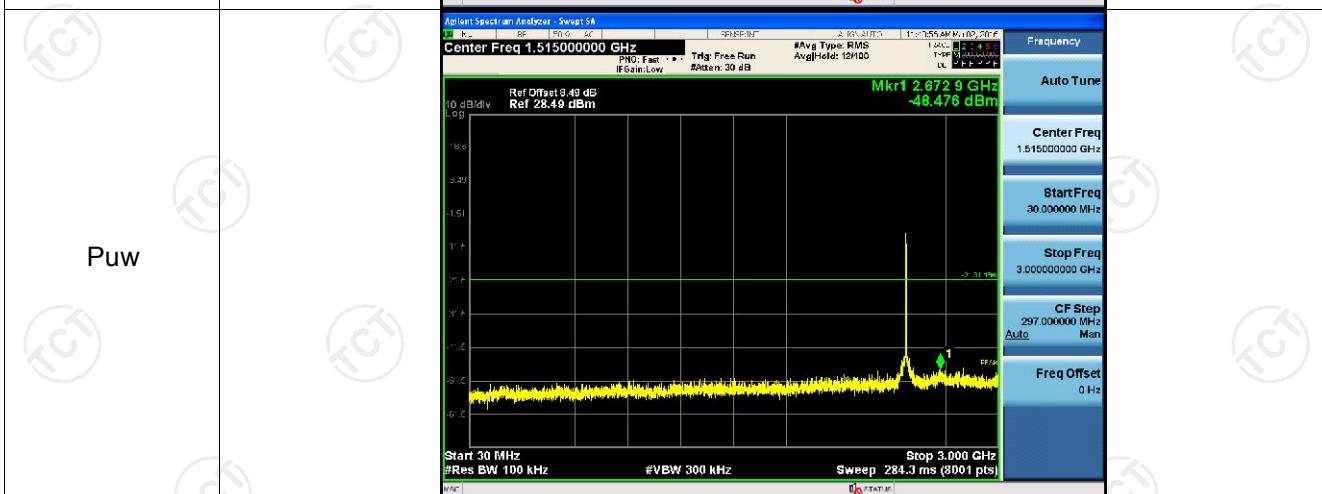
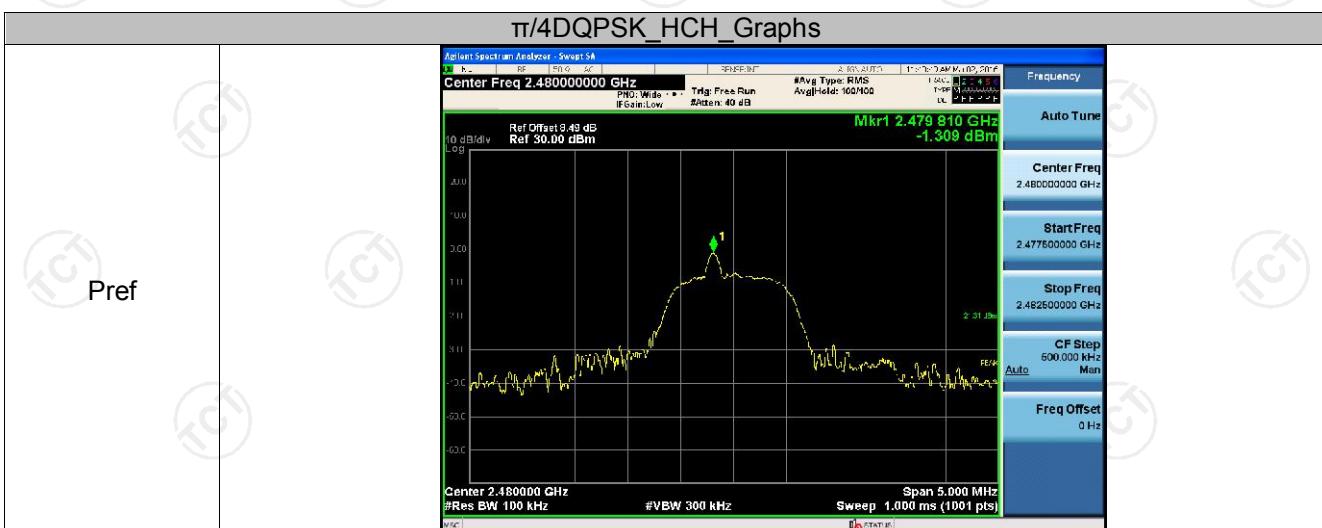
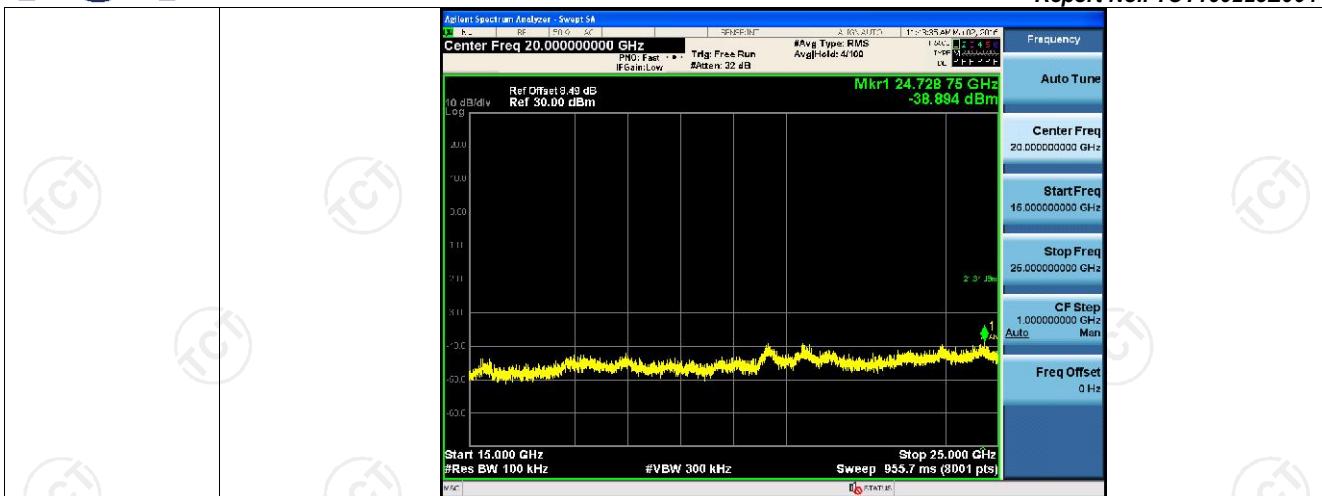


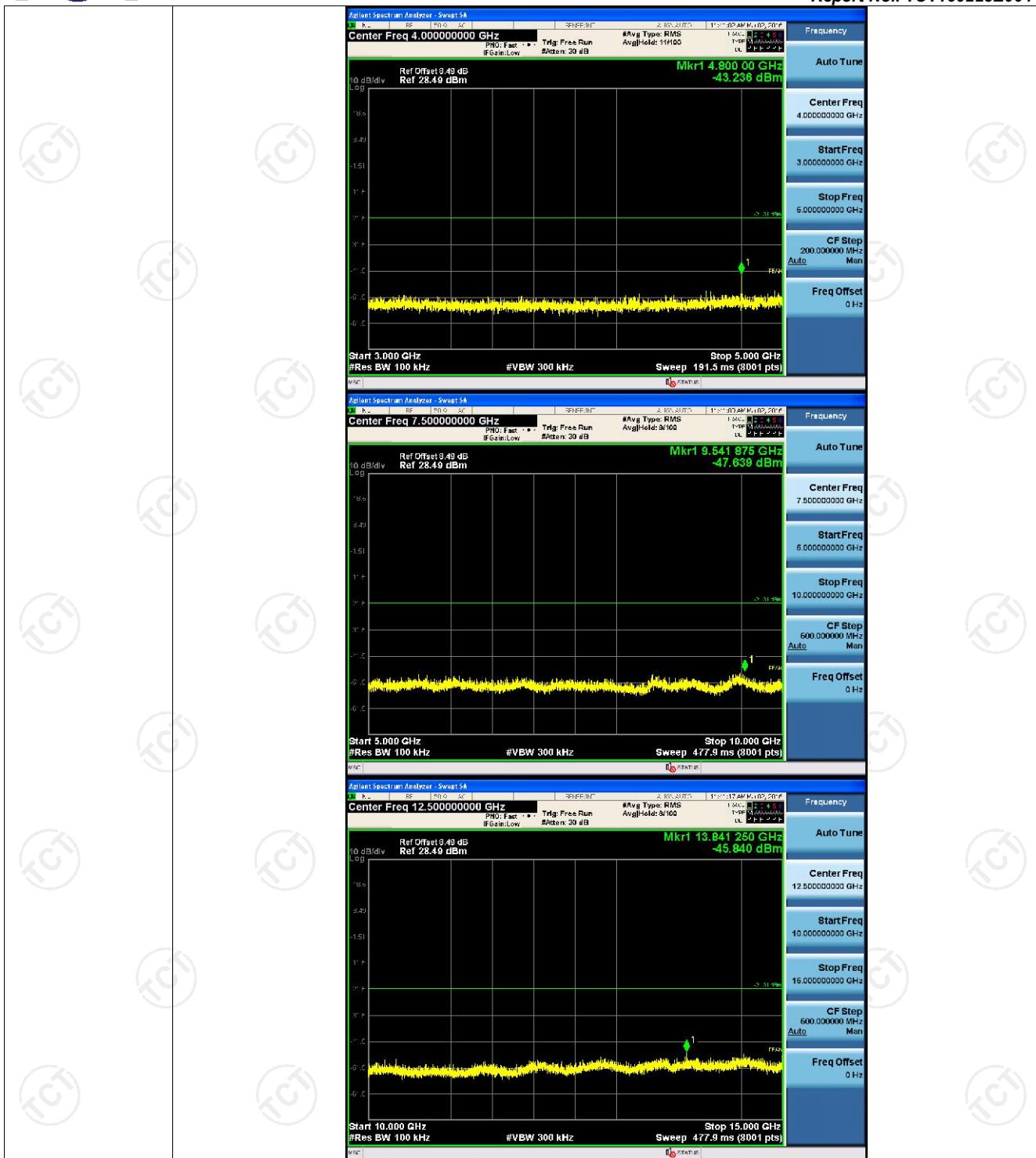


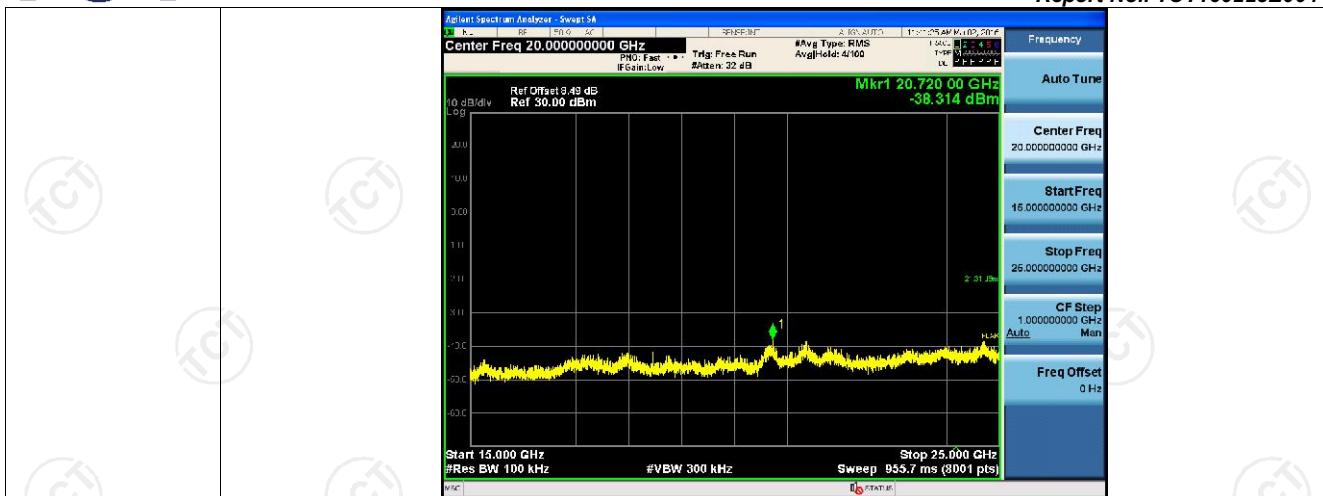












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