

π/4DQPSK/HCH



Carrier Frequency Separation

Result Table

Mode	Channel.	Carrier Frequency Separation [MHz]	Verdict
GFSK	LCH	0.998	PASS
GFSK	MCH	1.001	PASS
GFSK	HCH	1.000	PASS
$\pi/4$ DQPSK	LCH	0.982	PASS
$\pi/4$ DQPSK	MCH	0.994	PASS
$\pi/4$ DQPSK	HCH	0.995	PASS

Test Graph

Graphs

GFSK/LCH



GFSK/MCH



GFSK/HCH



$\pi/4$ DQPSK/LCH



$\pi/4$ DQPSK/MCH



$\pi/4$ DQPSK/HCH



Dwell Time

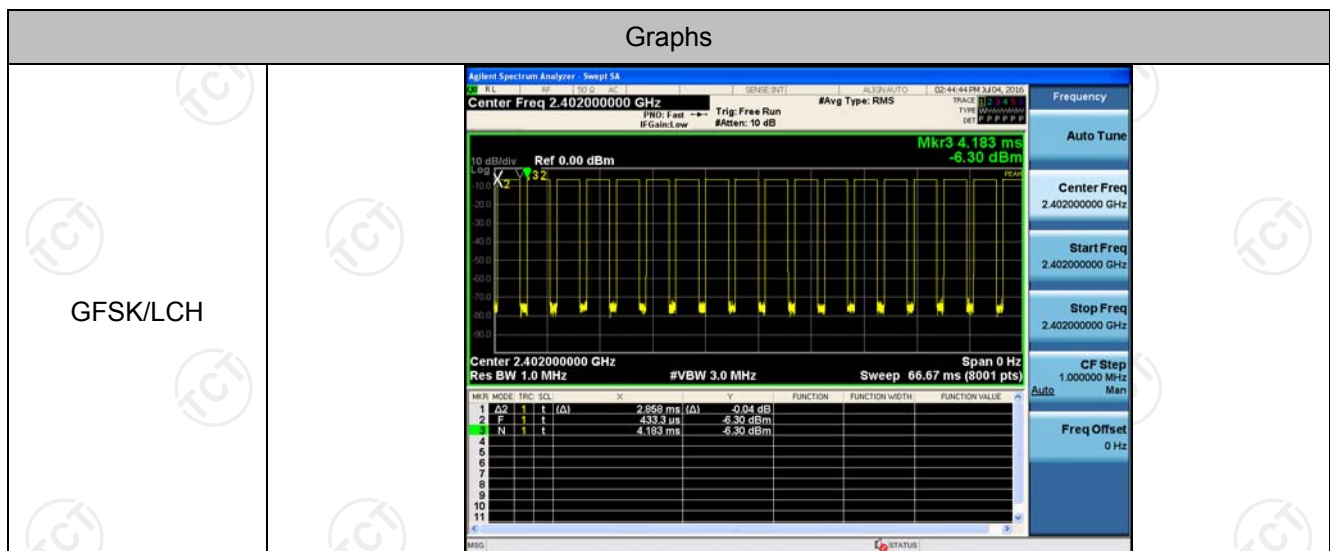
Result Table

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

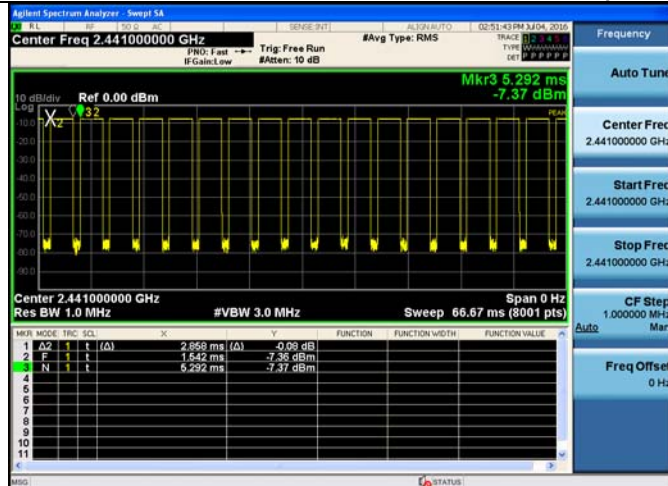
- The duration for dwell time calculation: $0.4[s] \times \text{hopping number} = 0.4[s] \times 79[\text{ch}] = 31.6[s \cdot \text{ch}]$;
- The burst width [ms/hop/ch], which is directly measured, refers to the duration on one channel hop.
- The hops per second for all channels: The selected EUT Conf 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	2.858	106.7	0.305	76.22	PASS
GFSK	MCH	2.858	106.7	0.305	76.22	PASS
GFSK	HCH	2.867	106.7	0.306	76.44	PASS
$\pi/4$ DQPSK	LCH	2.867	106.7	0.306	76.44	PASS
$\pi/4$ DQPSK	MCH	2.858	106.7	0.305	76.22	PASS
$\pi/4$ DQPSK	HCH	2.858	106.7	0.305	76.22	PASS

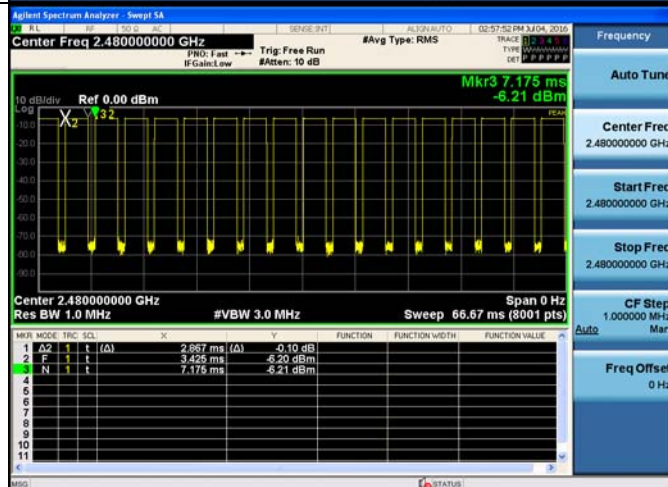
Test Graph



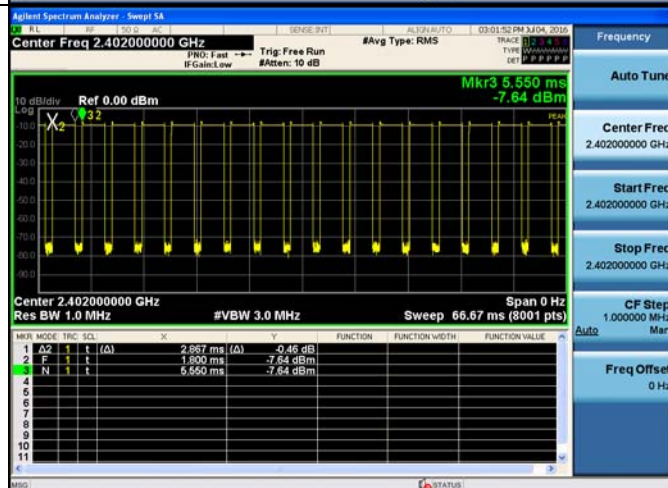
GFSK/MCH



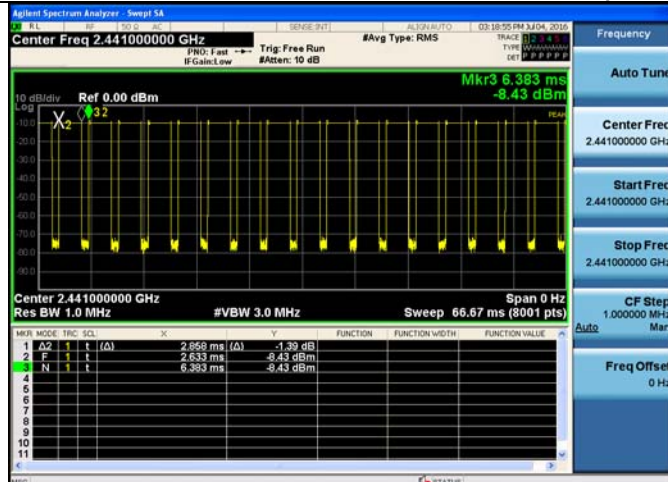
GFSK/HCH



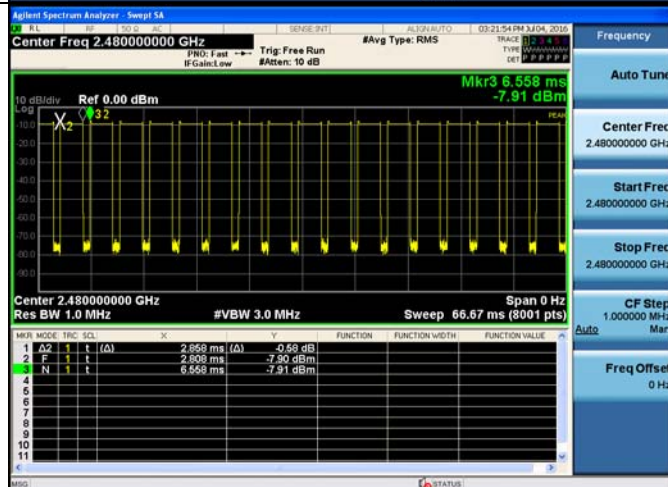
$\pi/4$ DQPSK/LCH



$\pi/4$ 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	2.553	PASS
GFSK	MCH	1.366	PASS
GFSK	HCH	2.115	PASS
$\pi/4$ DQPSK	LCH	1.391	PASS
$\pi/4$ DQPSK	MCH	0.518	PASS
$\pi/4$ DQPSK	HCH	1.243	PASS

Test Graph

Graphs

GFSK/LCH



GFSK/MCH



GFSK/HCH



$\pi/4$ DQPSK/LCH



$\pi/4$ DQPSK/MCH



π/4DQPSK/HCH

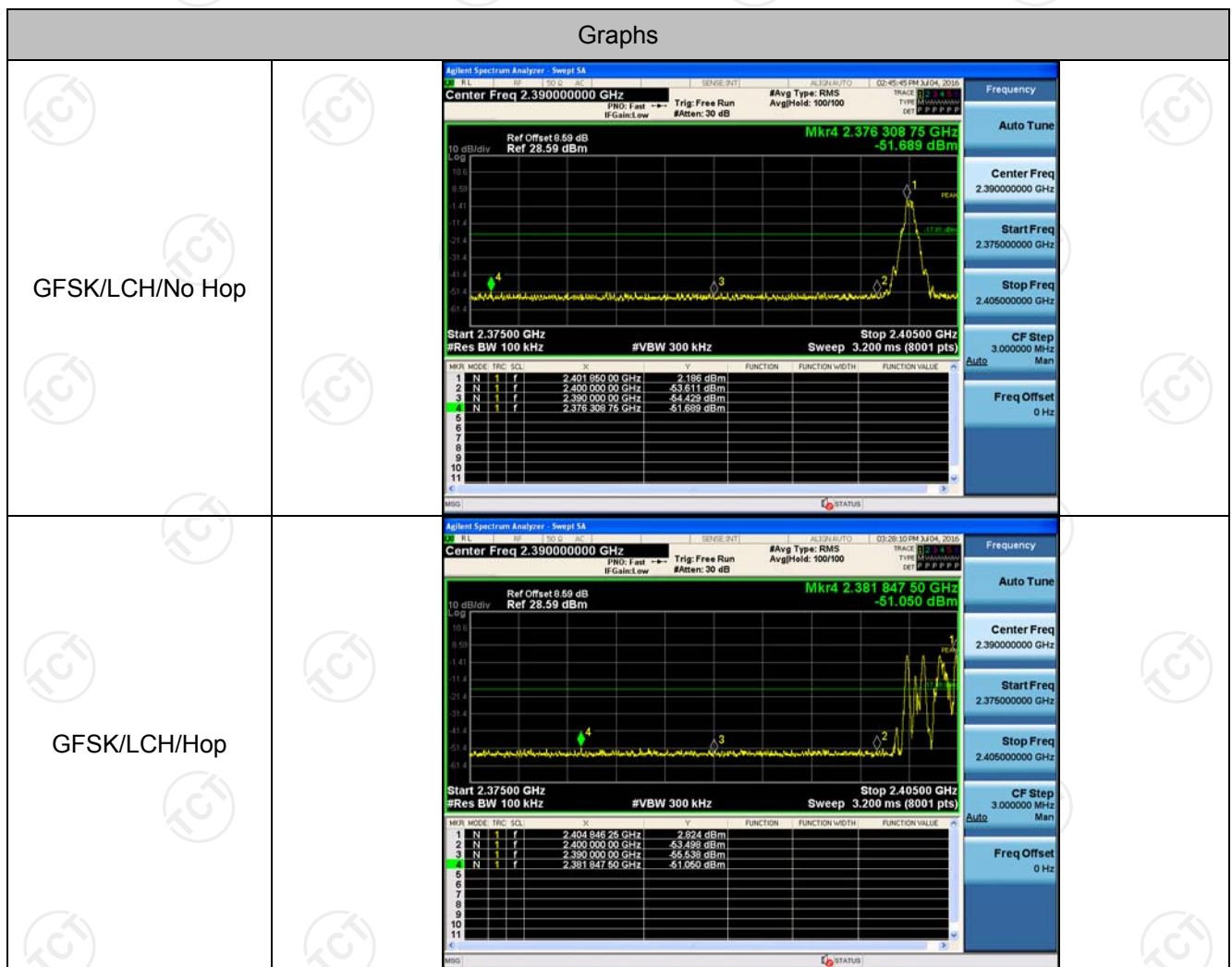


Band-edge for RF Conducted Emissions

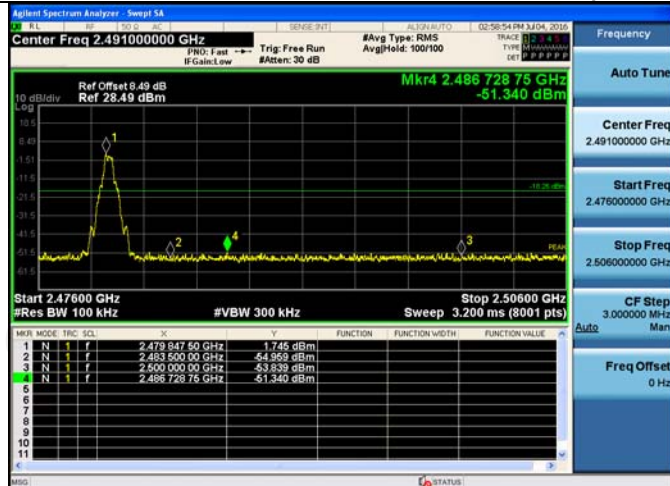
Result Table

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	2.186	Off	-51.689	-17.81	PASS
			2.824	On	-51.050	-17.18	PASS
GFSK	HCH	2480	1.745	Off	-51.340	-18.26	PASS
			2.349	On	-51.611	-17.65	PASS
$\pi/4$ DQPSK	LCH	2402	0.786	Off	-51.639	-19.21	PASS
			0.245	On	-51.214	-19.76	PASS
$\pi/4$ DQPSK	HCH	2480	0.579	Off	-51.532	-19.42	PASS
			-0.678	On	-50.856	-20.68	PASS

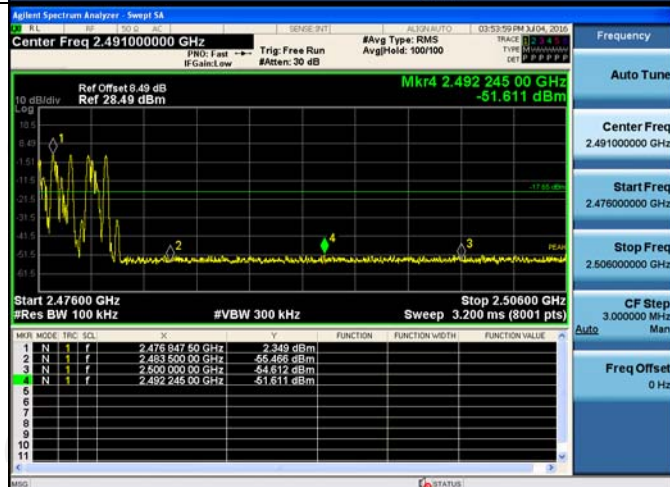
Test Graph



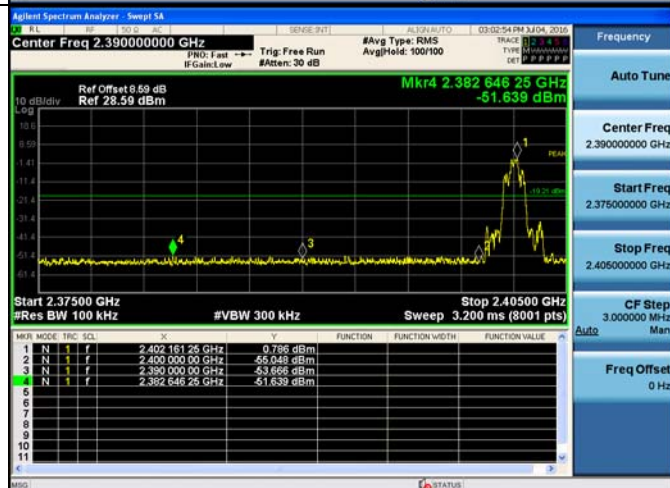
GFSK/HCH/No Hop



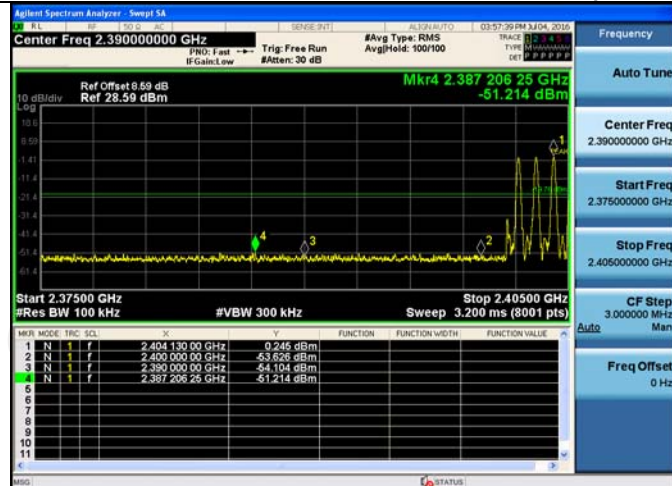
GFSK/HCH/Hop



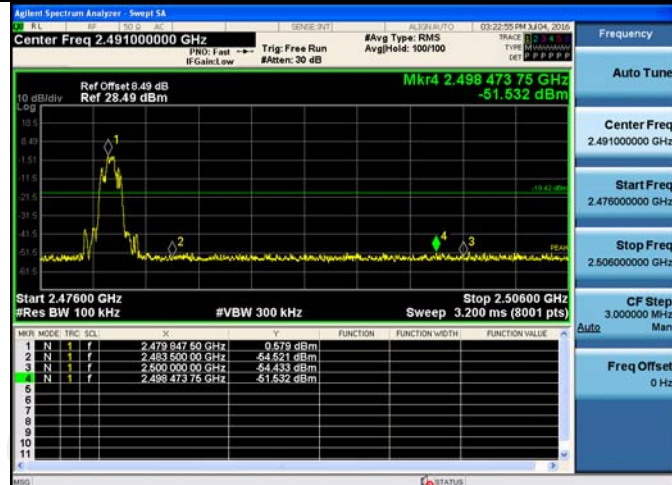
$\pi/4$ DQPSK/LCH/No Hop



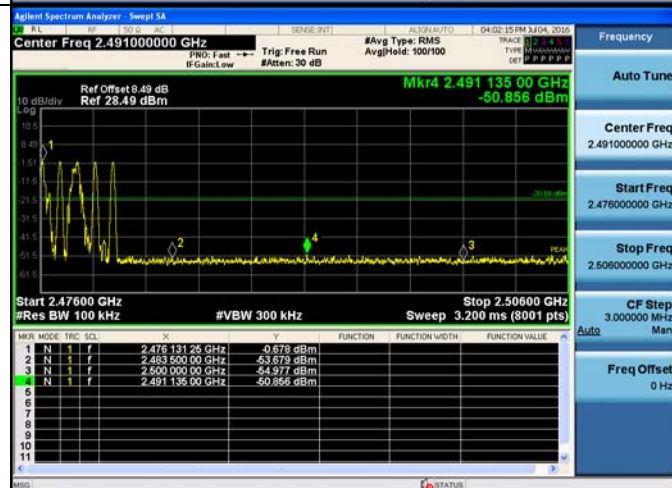
$\pi/4$ DQPSK/LCH/Hop



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



$\pi/4$ DQPSK/HCH/Hop

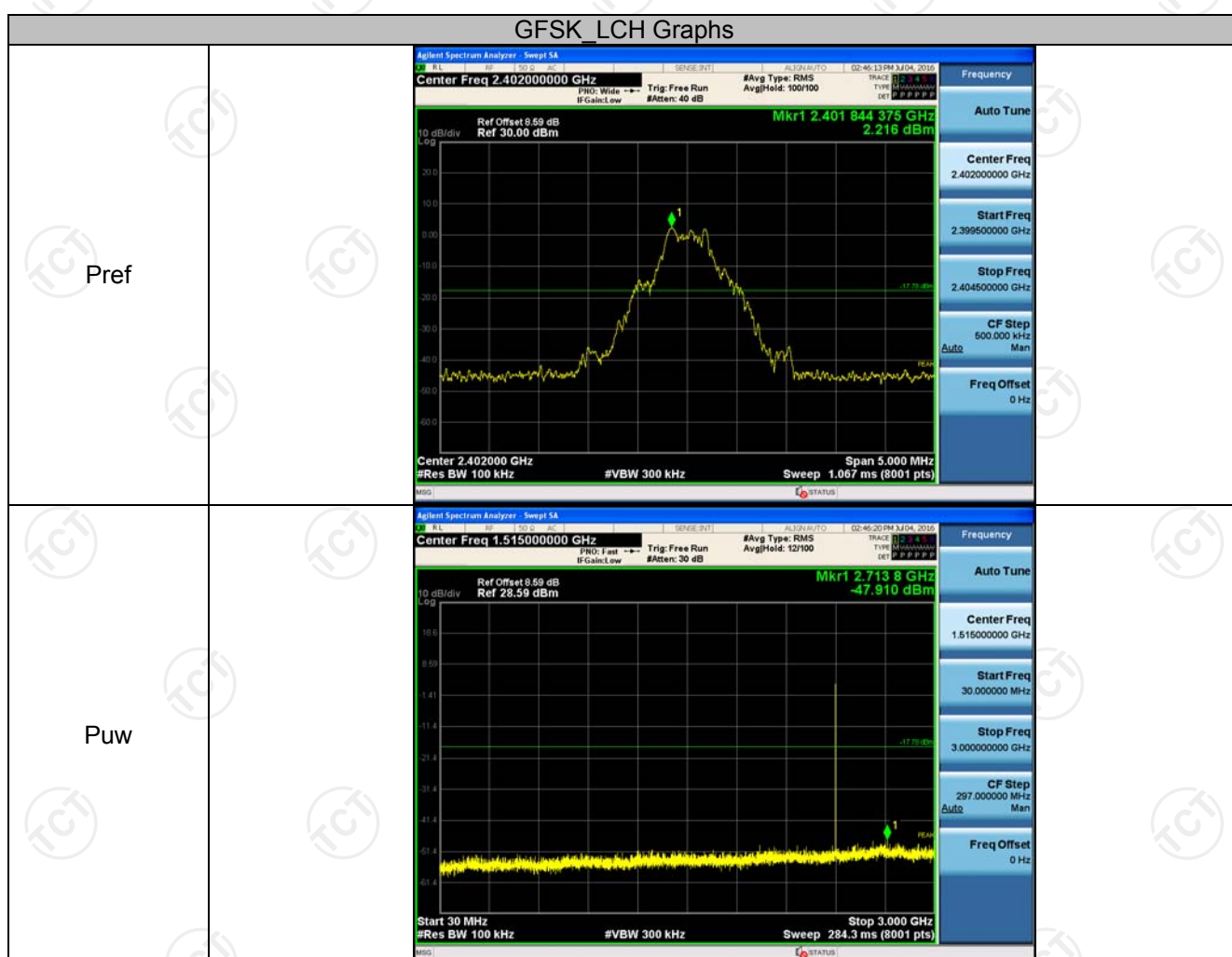


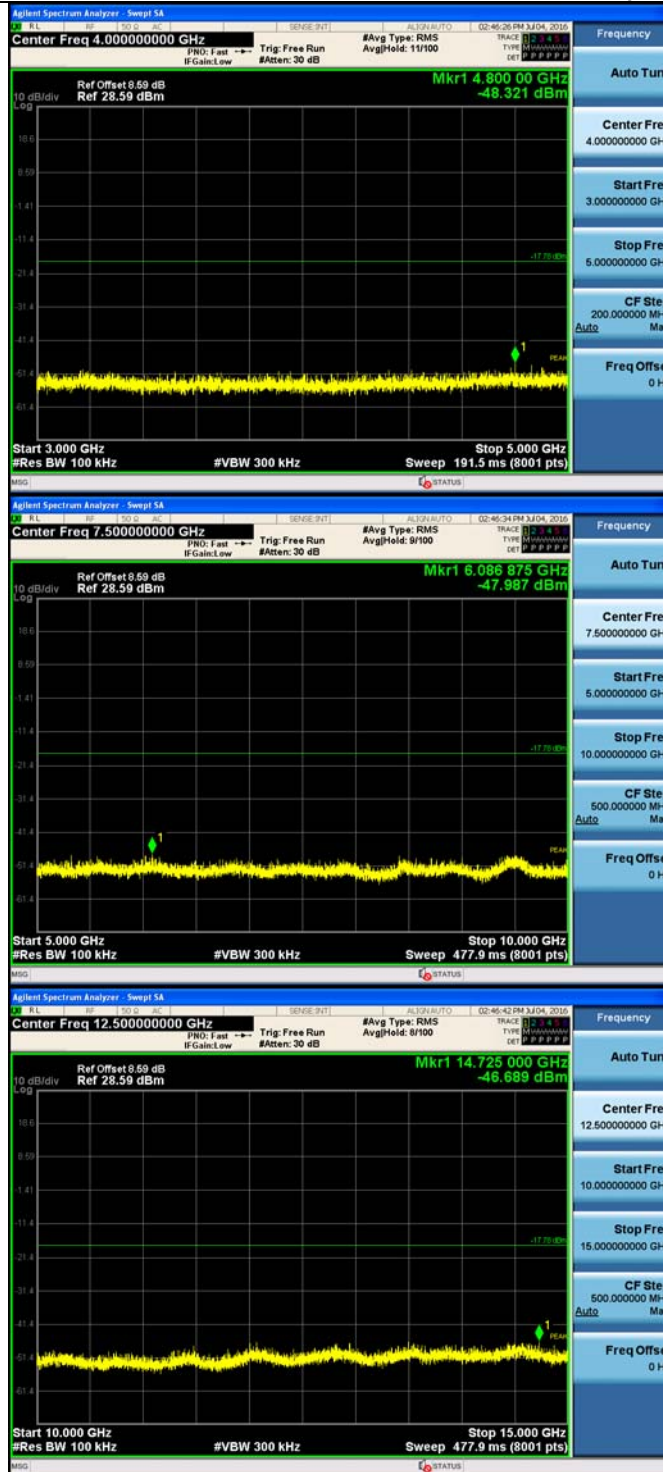
RF Conducted Spurious Emissions

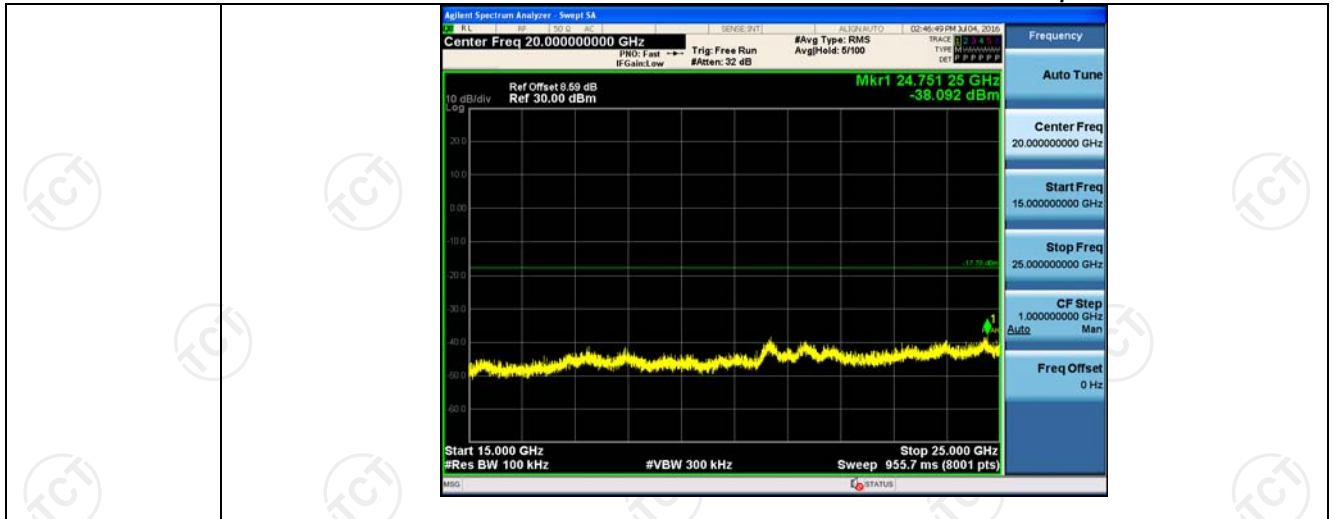
Result Table

Mode	Channel	Pref [dBm]	Puw [dBm]	Verdict
GFSK	LCH	2.216	<Limit	PASS
GFSK	MCH	0.972	<Limit	PASS
GFSK	HCH	1.76	<Limit	PASS
$\pi/4$ DQPSK	LCH	-0.412	<Limit	PASS
$\pi/4$ DQPSK	MCH	-0.732	<Limit	PASS
$\pi/4$ DQPSK	HCH	0.207	<Limit	PASS

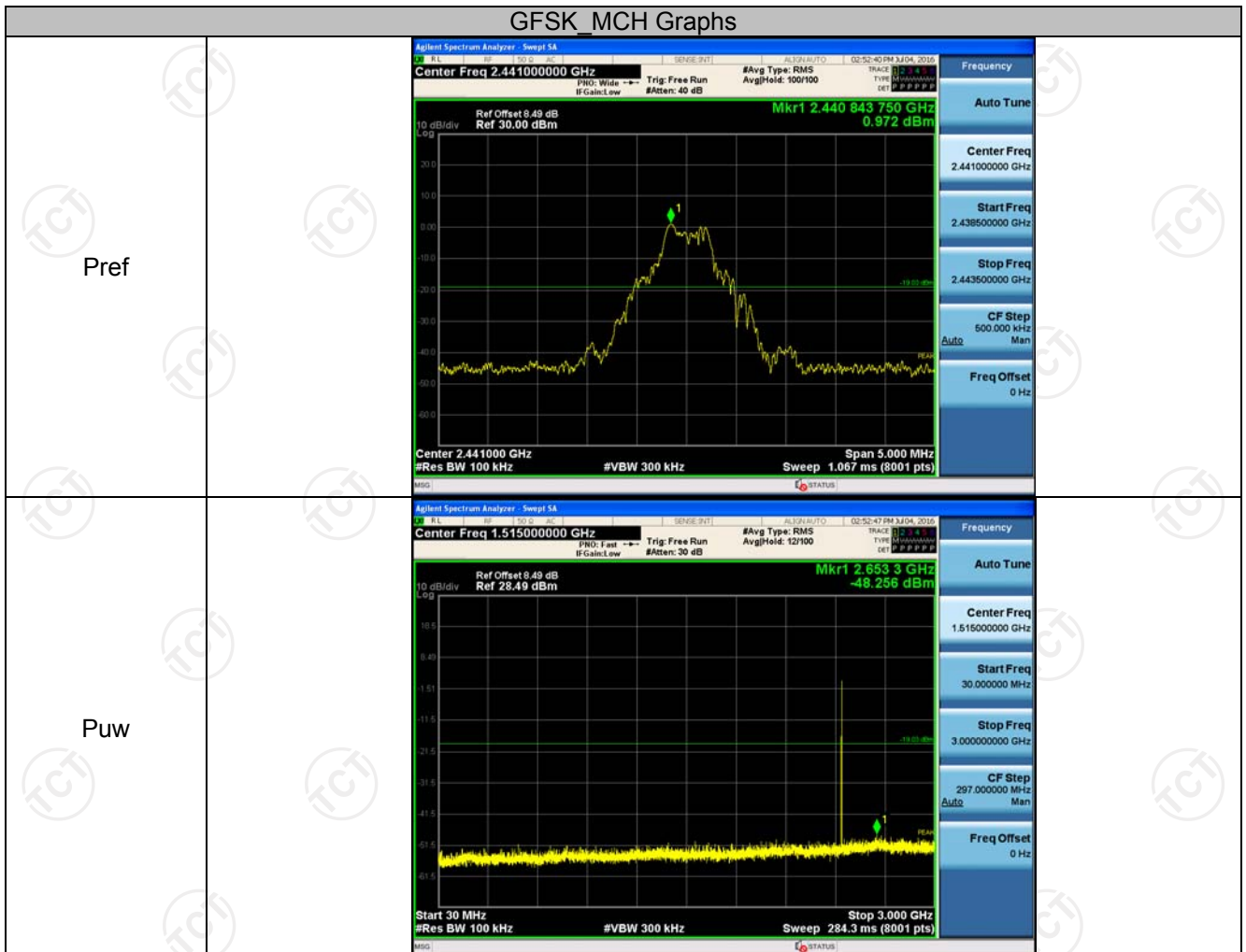
Test Graph

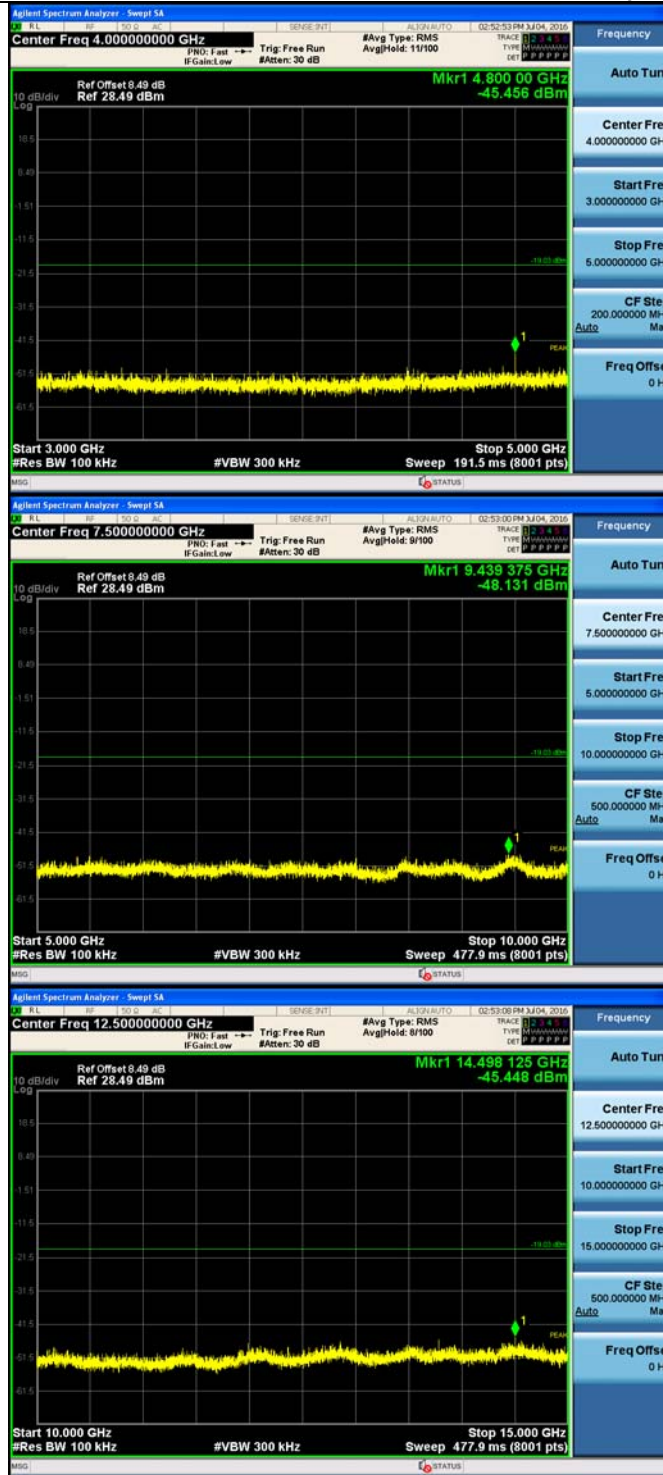


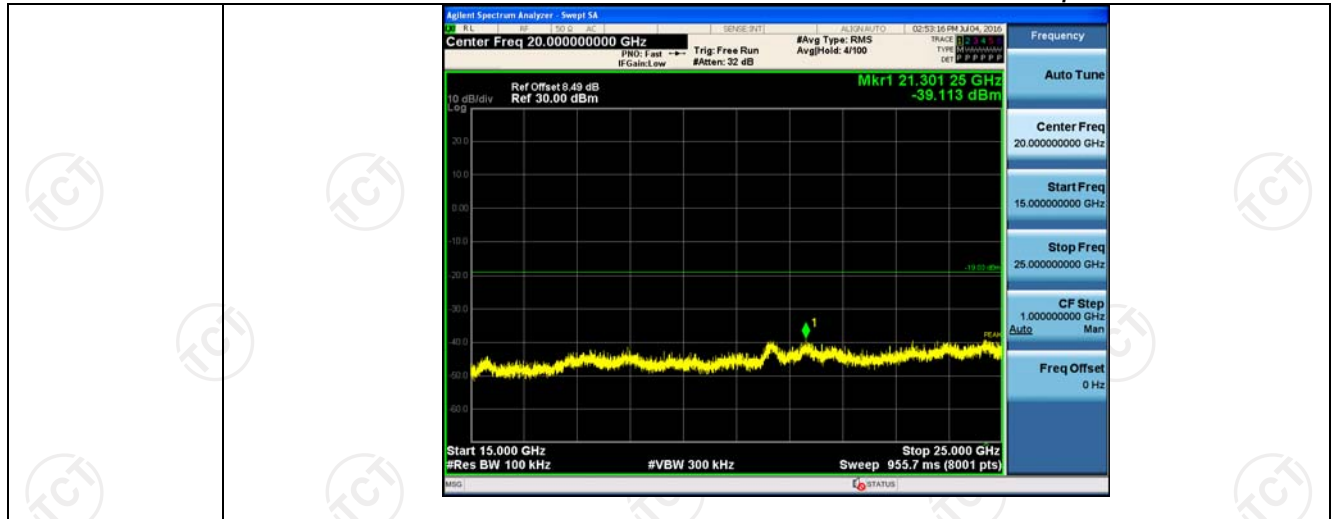




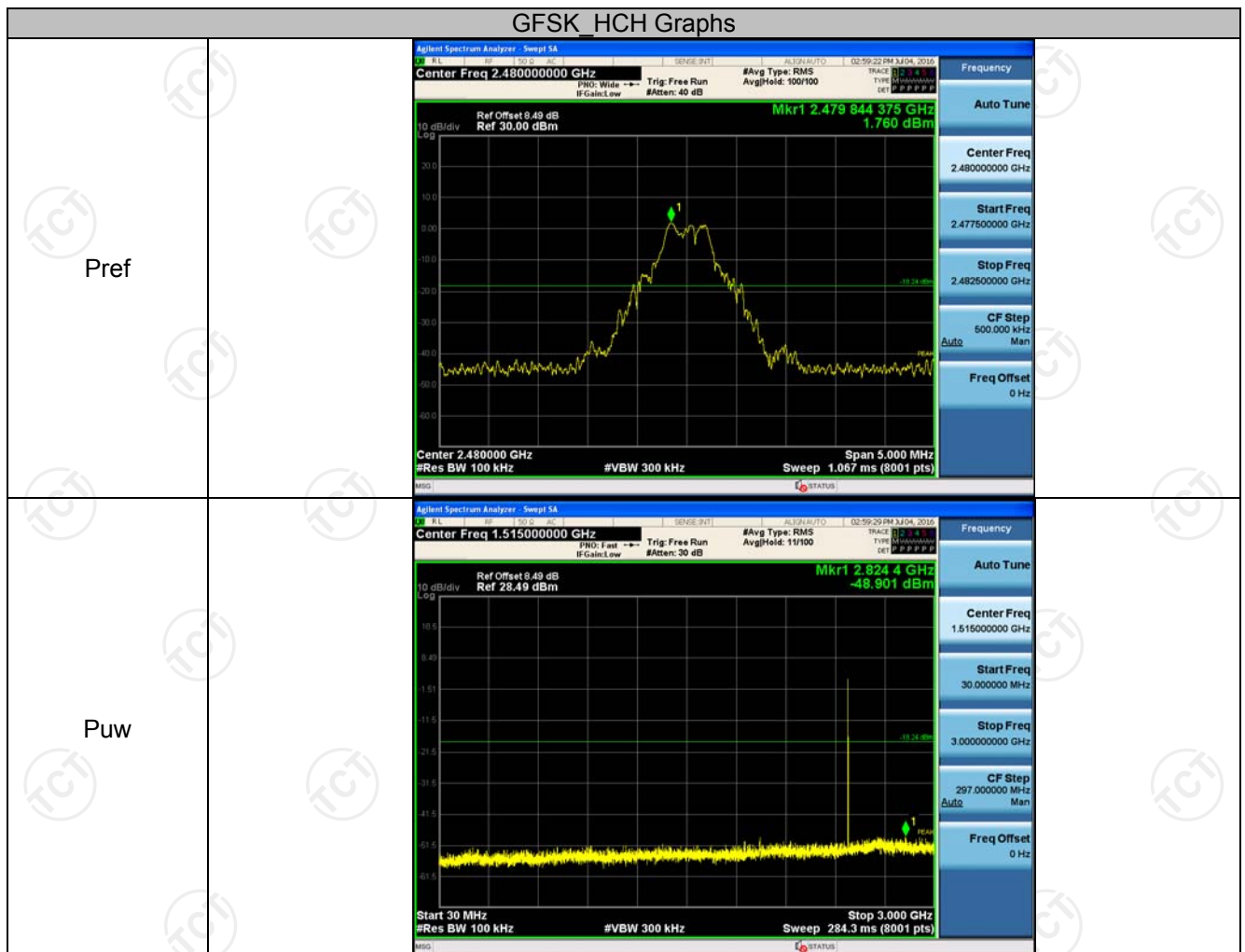
GFSK MCH Graphs

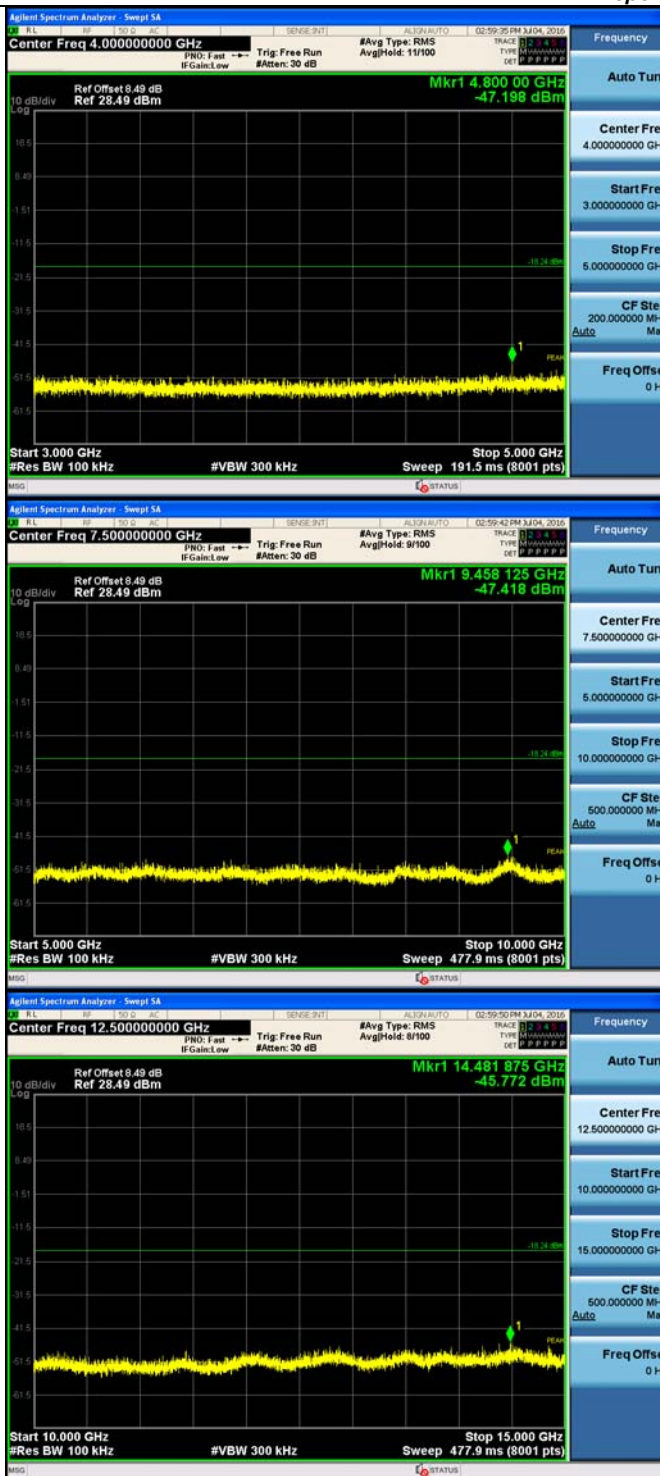


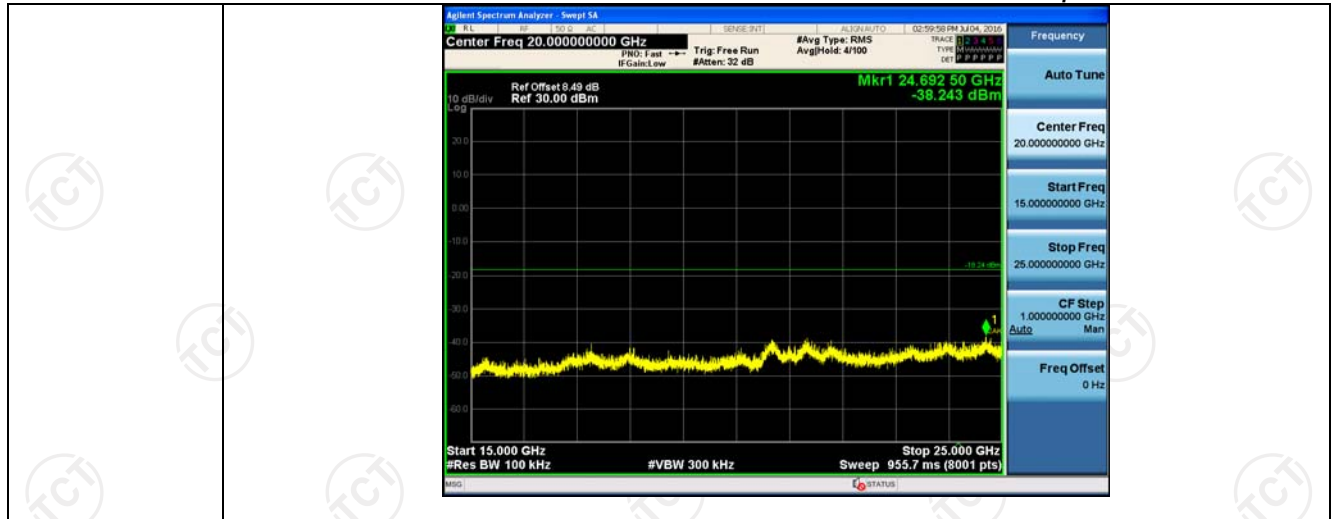




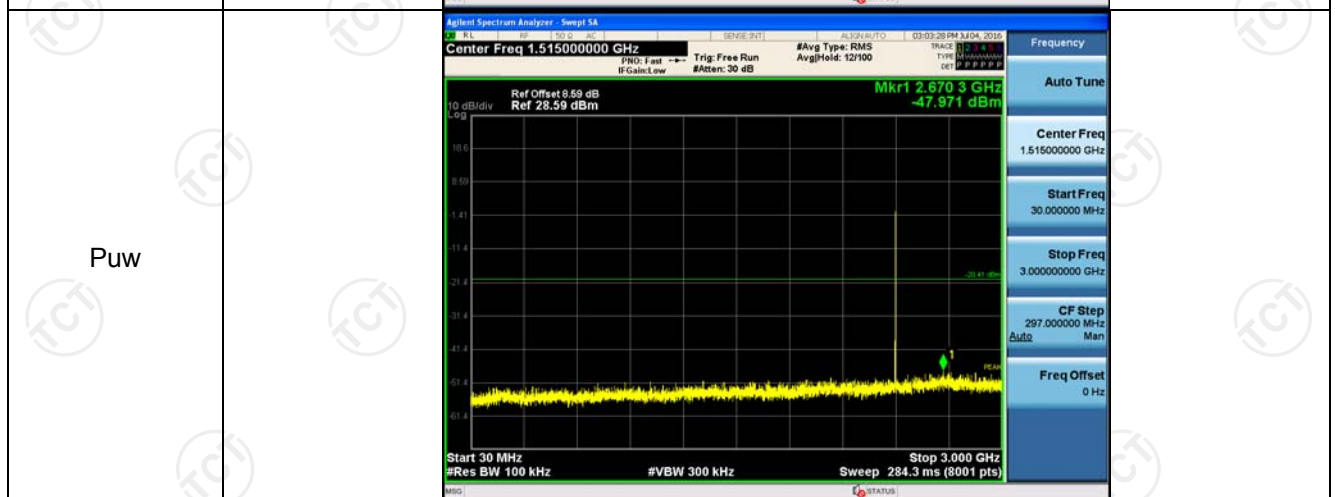
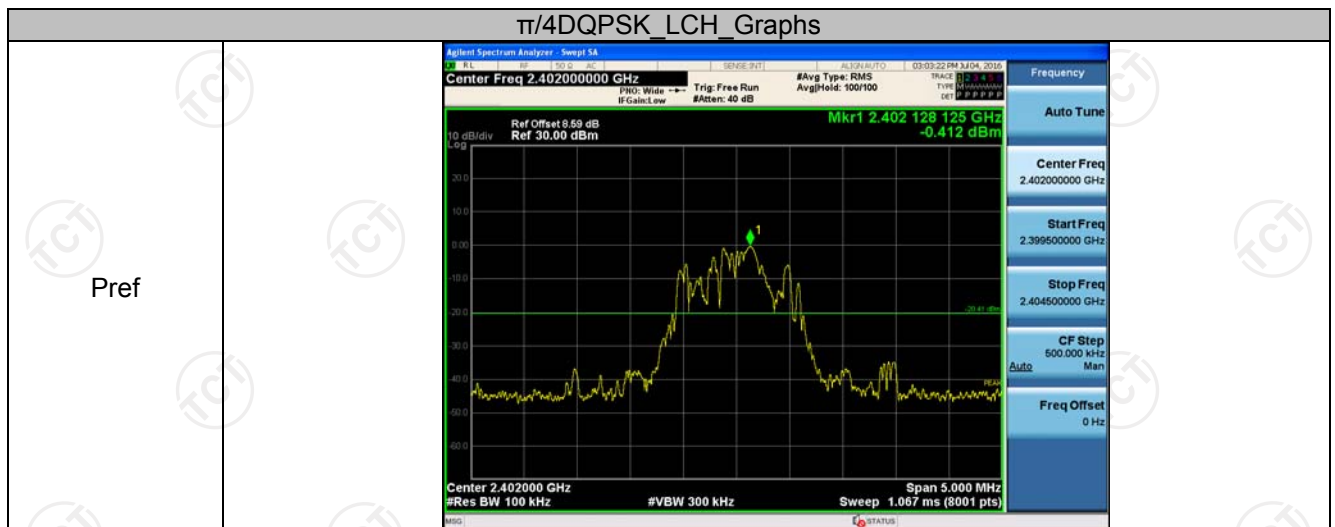
GFSK HCH Graphs

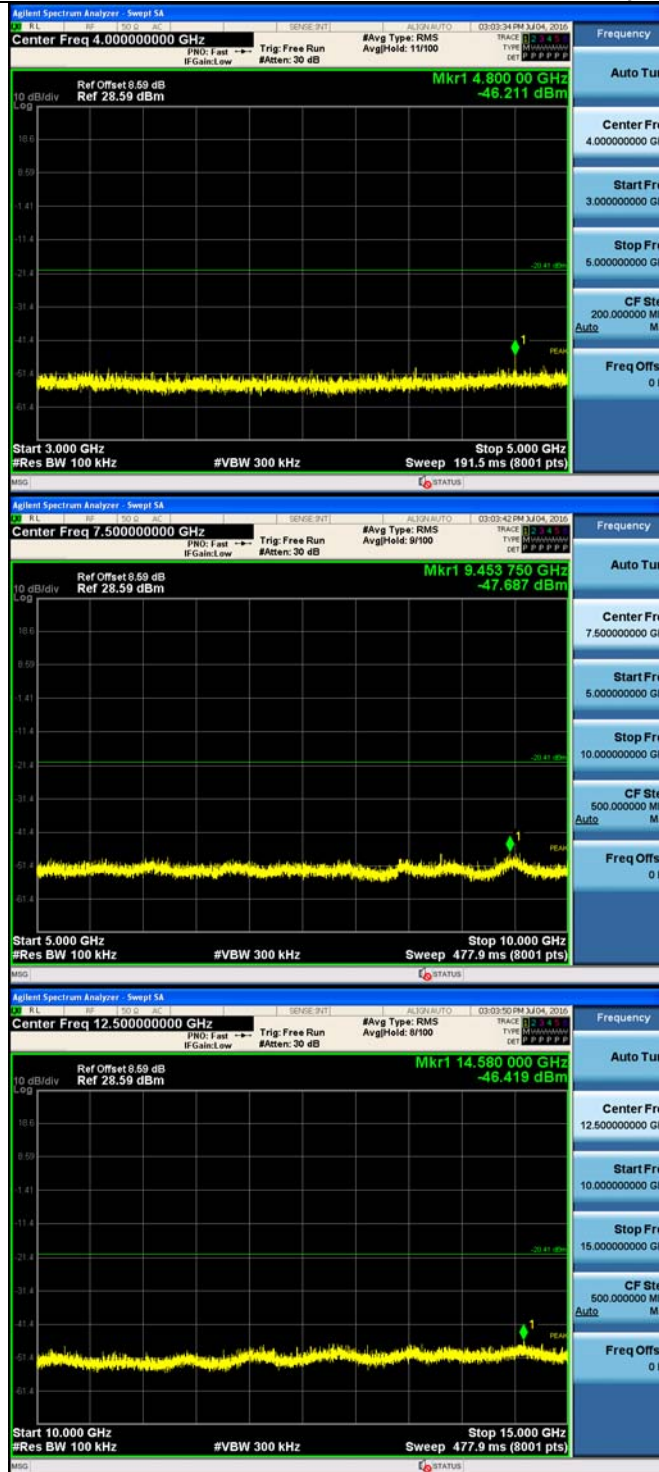


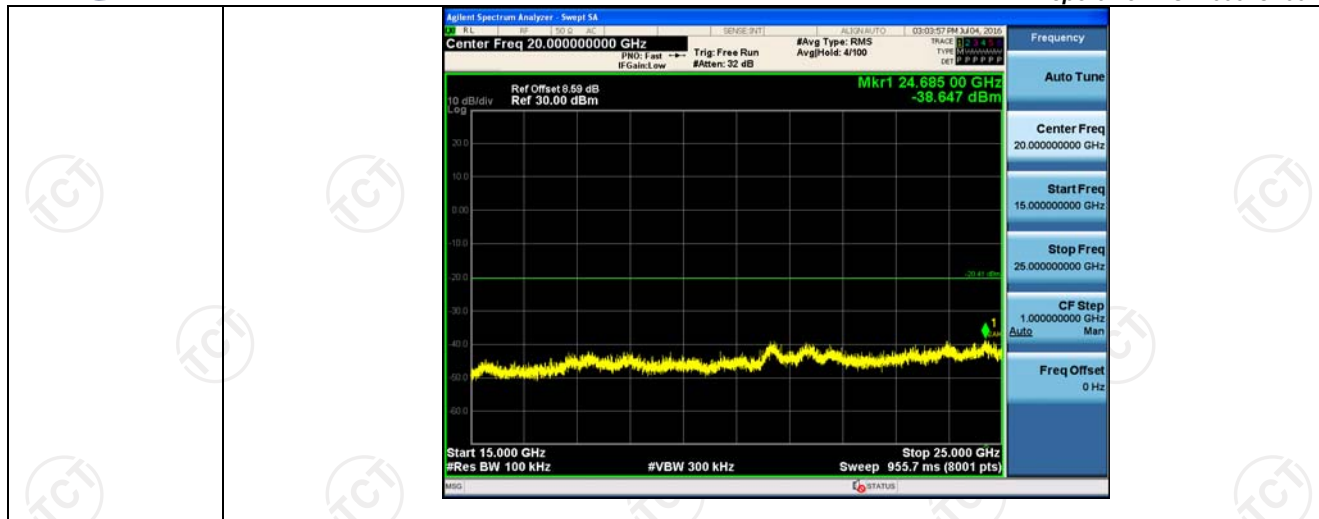




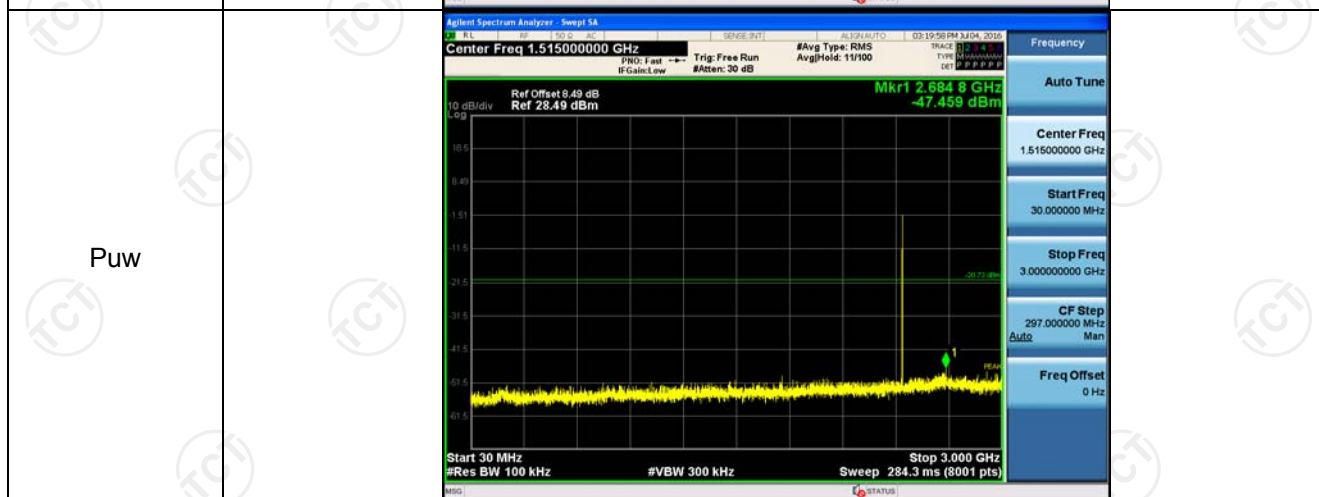
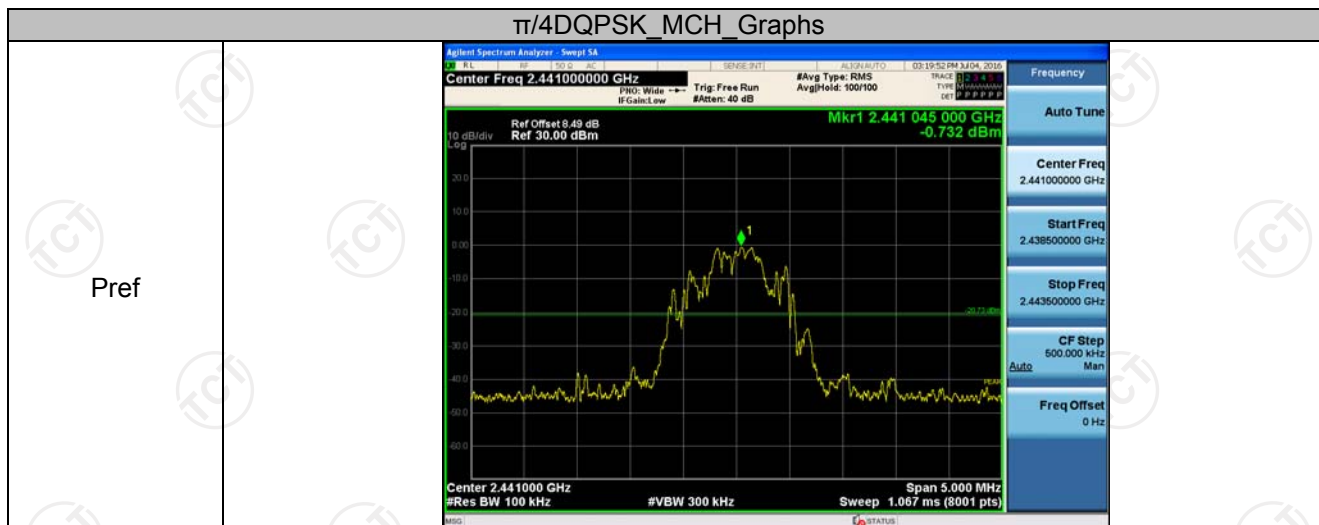
$\pi/4$ DQPSK LCH_Graphs

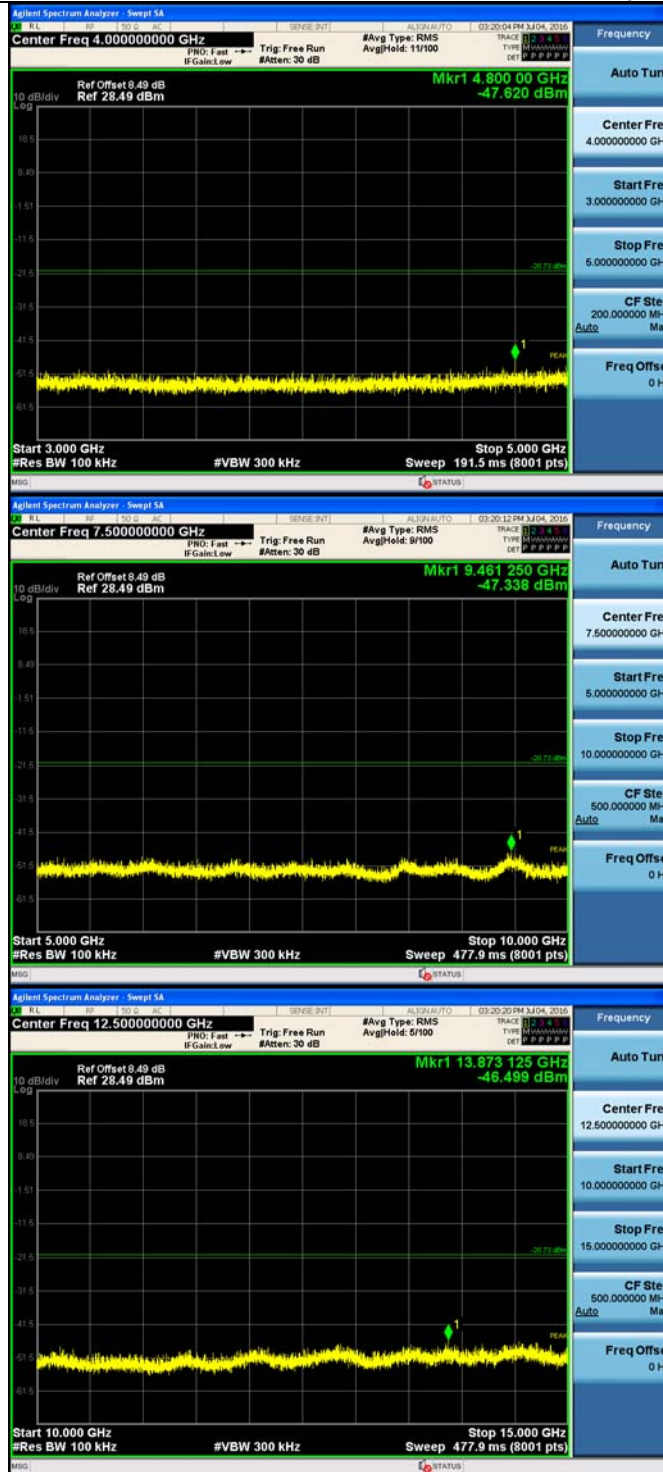


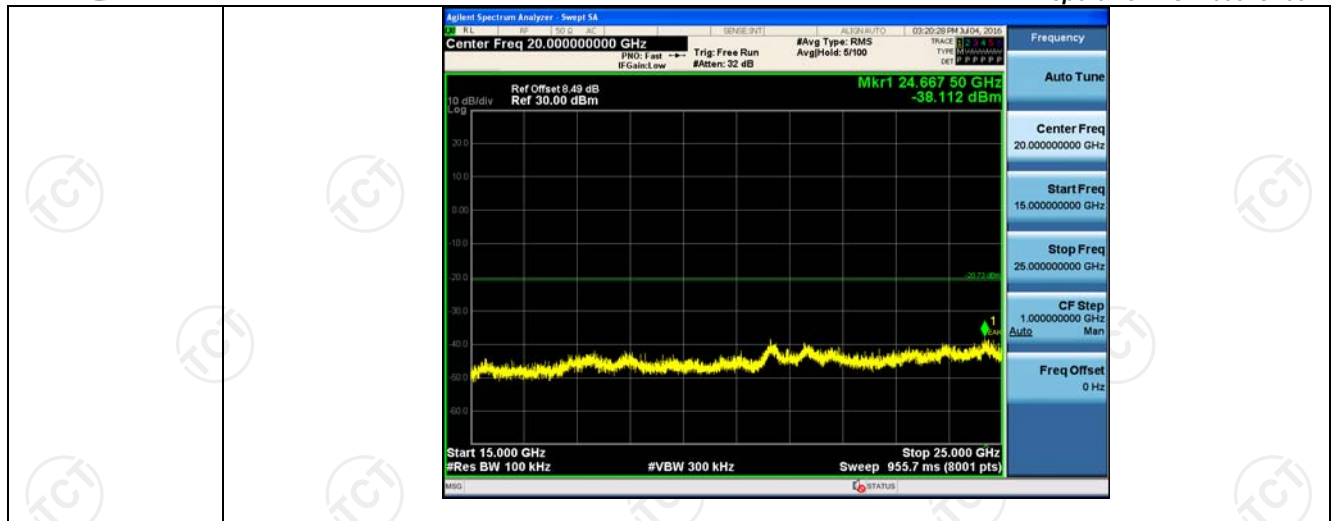




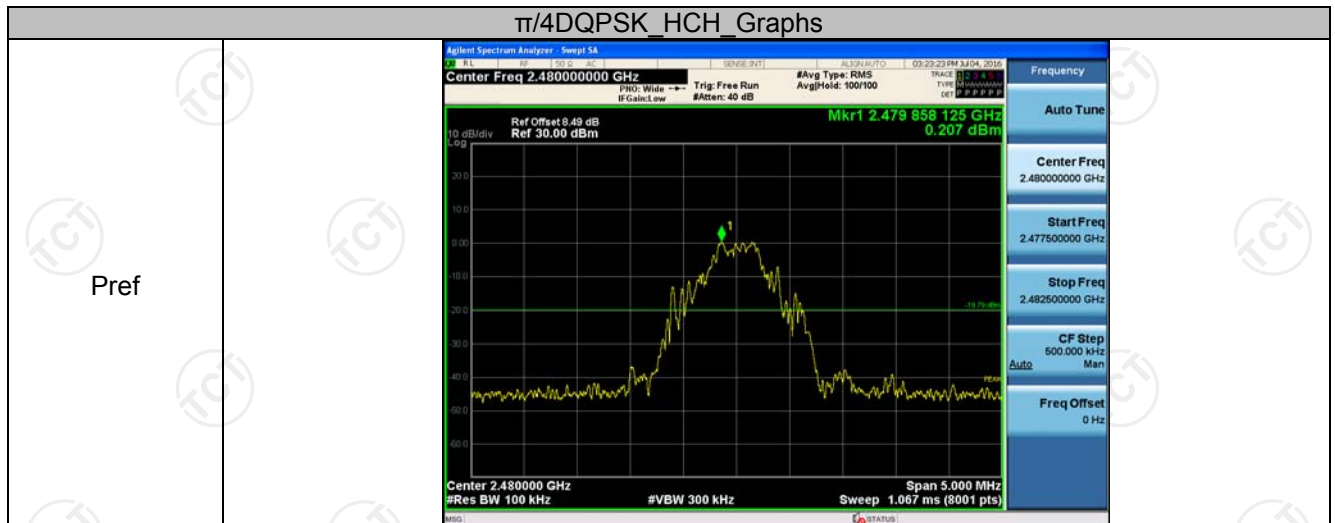
$\pi/4$ DQPSK_MCH_Graphs



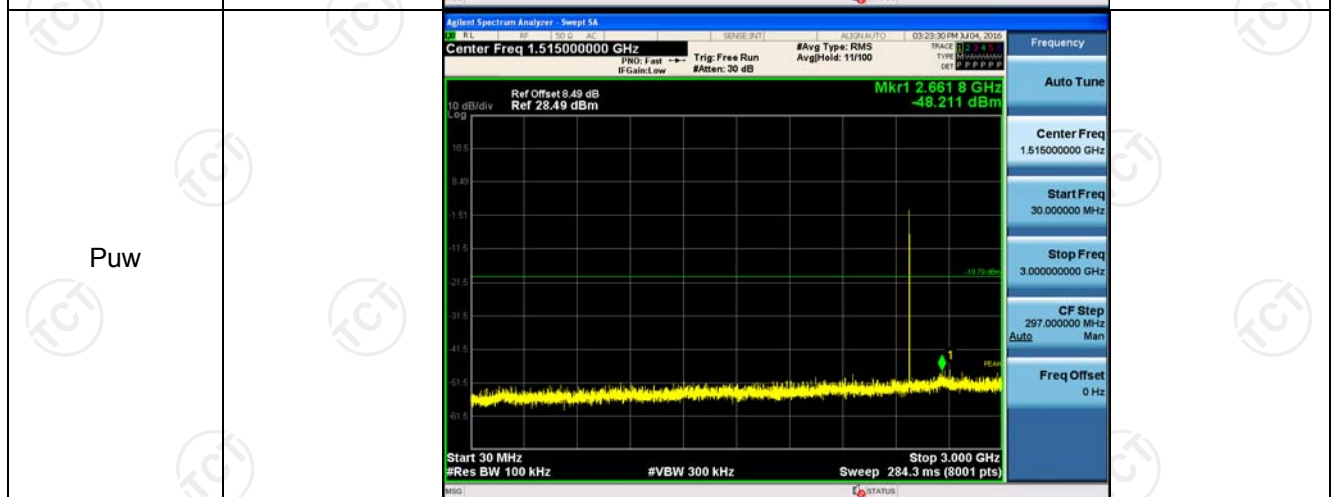




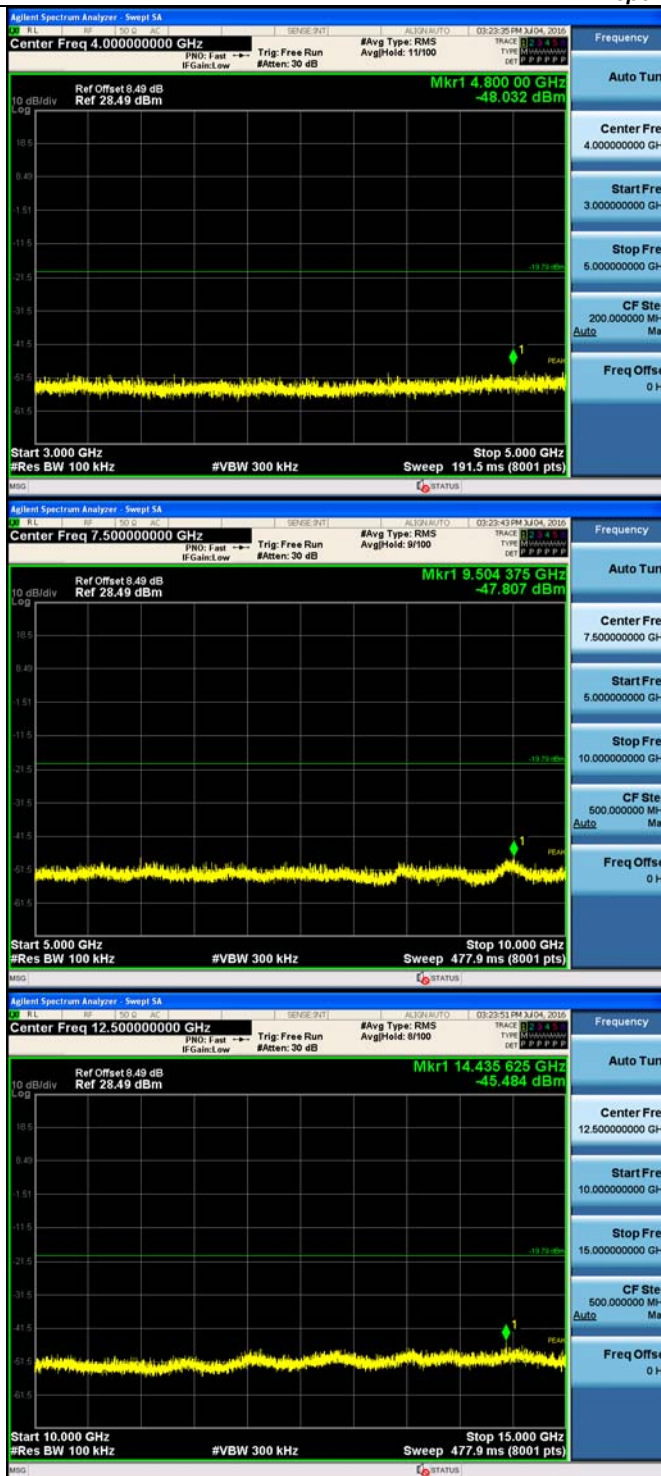
$\pi/4$ DQPSK_HCH_Graphs

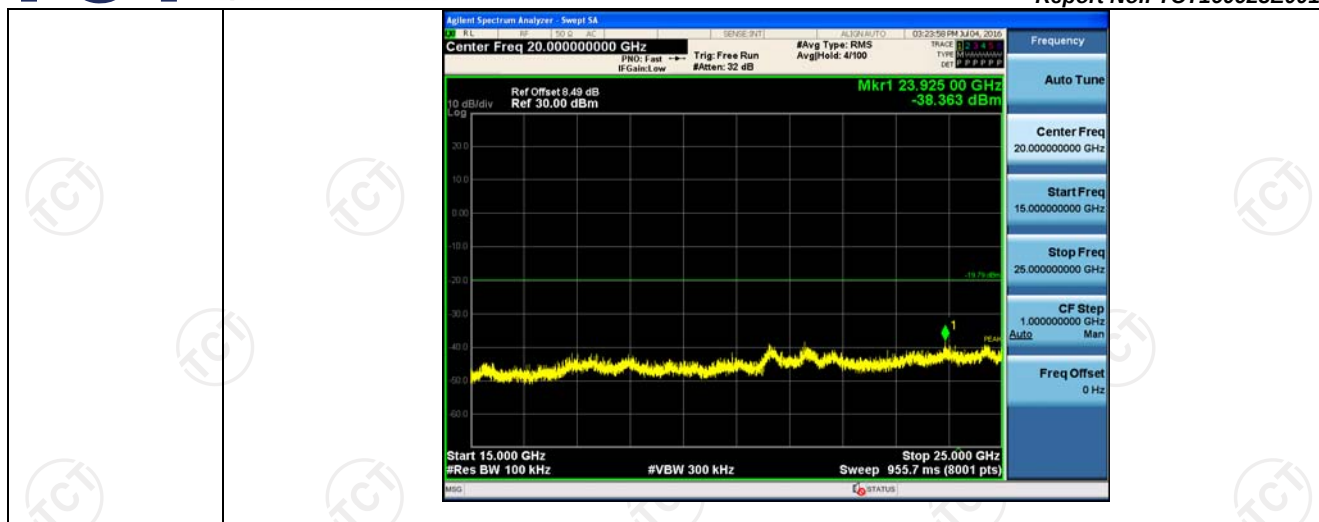


Pref



Puw





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