

Conducted Peak Output Power

Result Table

Mode	Channel.	Maximum Peak Output Power [dBm]	Verdict
GFSK	LCH	3.165	PASS
GFSK	MCH	5.079	PASS
GFSK	HCH	4.660	PASS
π/4DQPSK	LCH	3.877	PASS
π/4DQPSK	MCH	5.315	PASS
π/4DQPSK	HCH	4.895	PASS
8DPSK	LCH	4.135	PASS
8DPSK	MCH	5.582	PASS
8DPSK	HCH	5.189	PASS

Test Graph



GFSK/HCH



π/4DQPSK/LCH



π/4DQPSK/MCH



π/4DQPSK/HCH	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.48000000 GHz</p> <p>Ref Offset 3.9 dB Ref 30.00 dBm</p> <p>10 dB/div Log</p> <p>Center 2.480000 GHz #Res BW 3.0 MHz #VBW 8.0 MHz Sweep 5.000 MHz Span 5.000 MHz</p> <p>Mkr1 2.479 973 125 GHz 4.895 dBm</p> <p>PEAK</p> <p>Auto Tune</p> <p>Frequency</p> <p>Center Freq 2.48000000 GHz</p> <p>Start Freq 2.47750000 GHz</p> <p>Stop Freq 2.48250000 GHz</p> <p>CF Step 500.000 kHz Auto Man</p> <p>Freq Offset 0 Hz</p>
8DPSK/LCH	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.40200000 GHz</p> <p>Ref Offset 3.9 dB Ref 30.00 dBm</p> <p>10 dB/div Log</p> <p>Center 2.402000 GHz #Res BW 3.0 MHz #VBW 8.0 MHz Sweep 5.000 MHz Span 5.000 MHz</p> <p>Mkr1 2.401 975 625 GHz 4.135 dBm</p> <p>PEAK</p> <p>Auto Tune</p> <p>Frequency</p> <p>Center Freq 2.40200000 GHz</p> <p>Start Freq 2.39950000 GHz</p> <p>Stop Freq 2.40450000 GHz</p> <p>CF Step 500.000 kHz Auto Man</p> <p>Freq Offset 0 Hz</p>
8DPSK/MCH	 <p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.44100000 GHz</p> <p>Ref Offset 3.9 dB Ref 30.00 dBm</p> <p>10 dB/div Log</p> <p>Center 2.441000 GHz #Res BW 3.0 MHz #VBW 8.0 MHz Sweep 5.000 MHz Span 5.000 MHz</p> <p>Mkr1 2.441 043 750 GHz 5.582 dBm</p> <p>PEAK</p> <p>Auto Tune</p> <p>Frequency</p> <p>Center Freq 2.44100000 GHz</p> <p>Start Freq 2.43850000 GHz</p> <p>Stop Freq 2.44350000 GHz</p> <p>CF Step 500.000 kHz Auto Man</p> <p>Freq Offset 0 Hz</p>

8DPSK/HCH

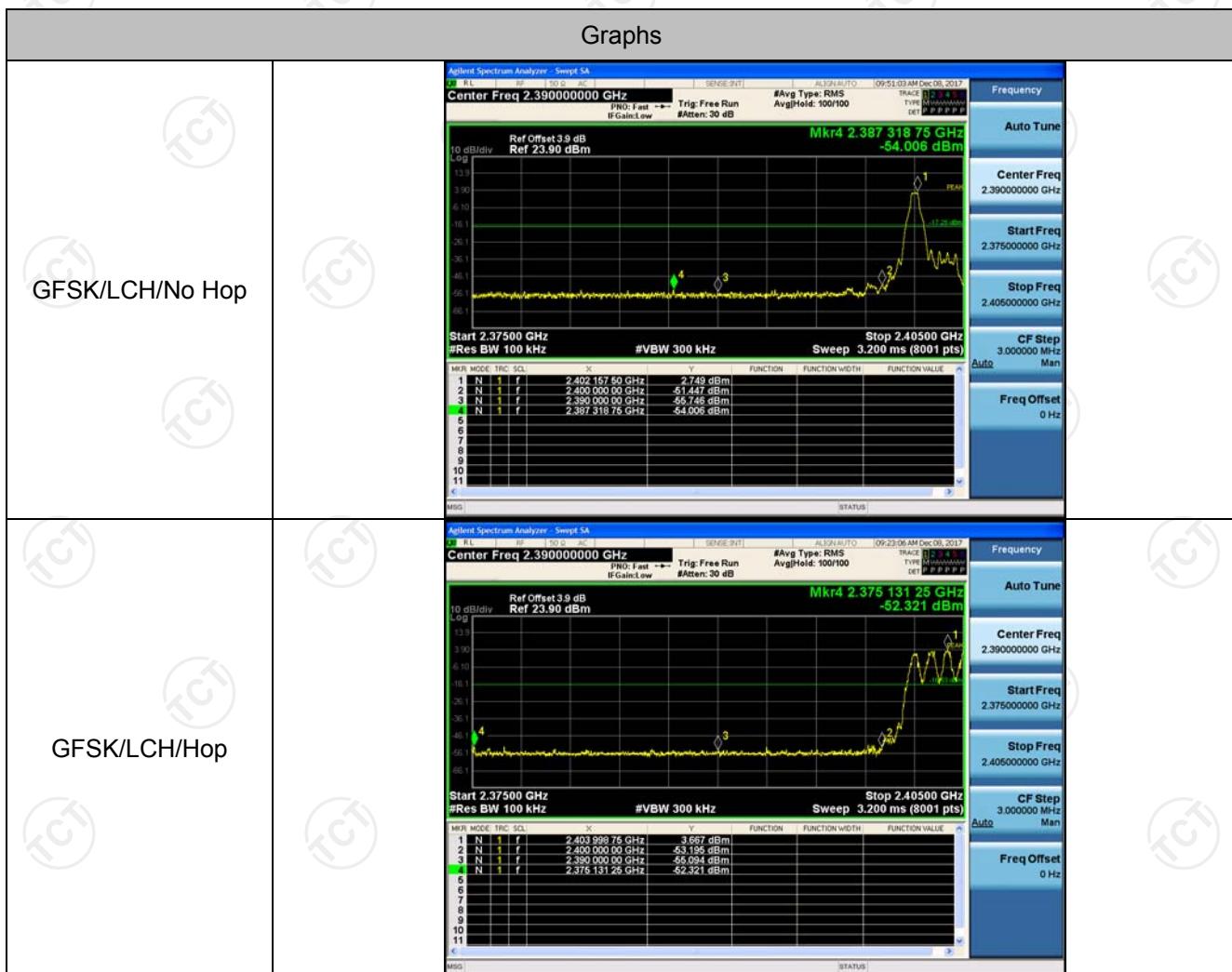


Band-edge for RF Conducted Emissions

Result Table

Mode	Channel	Carrier Frequency [MHz]	Carrier Power [dBm]	Frequency Hopping	Max Spurious Level [dBm]	Limit [dBm]	Verdict
GFSK	LCH	2402	2.749	Off	-54.006	-17.25	PASS
			3.667	On	-52.321	-16.33	PASS
GFSK	HCH	2480	4.215	Off	-51.942	-15.79	PASS
			3.997	On	-51.632	-16	PASS
$\pi/4$ DQPSK	LCH	2402	2.699	Off	-54.429	-17.3	PASS
			-1.034	On	-53.844	-21.03	PASS
$\pi/4$ DQPSK	HCH	2480	3.858	Off	-52.845	-16.14	PASS
			0.876	On	-53.090	-19.12	PASS
8DPSK	LCH	2402	2.597	Off	-54.636	-17.4	PASS
			-0.506	On	-53.454	-20.51	PASS
8DPSK	HCH	2480	3.953	Off	-52.245	-16.05	PASS
			1.118	On	-53.594	-18.88	PASS

Test Graph

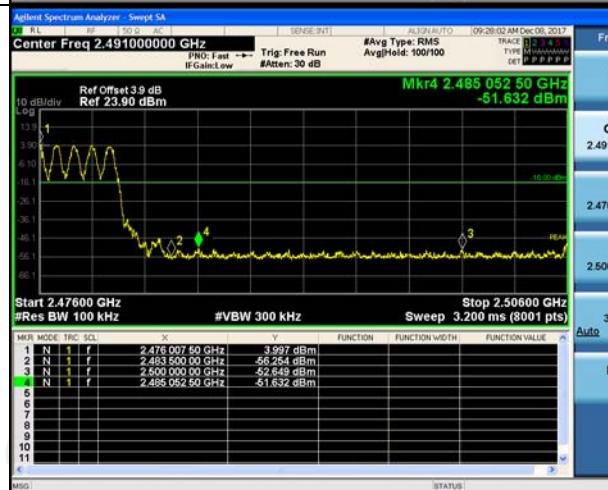


GFSK/HCH/No Hop



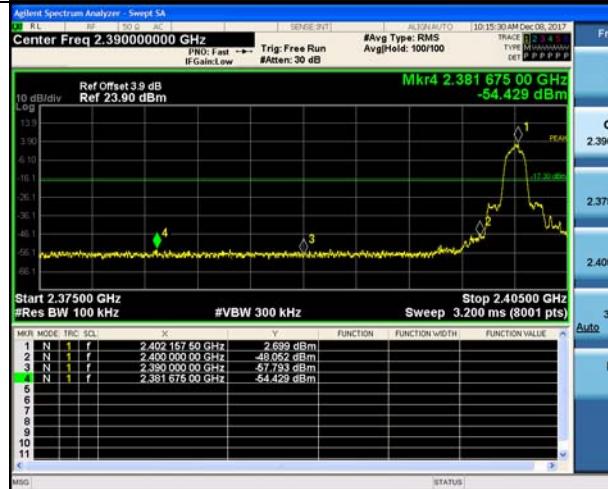
Frequency
Auto Tune
Center Freq
2.491000000 GHz
Start Freq
2.476000000 GHz
Stop Freq
2.506000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

GFSK/HCH/Hop



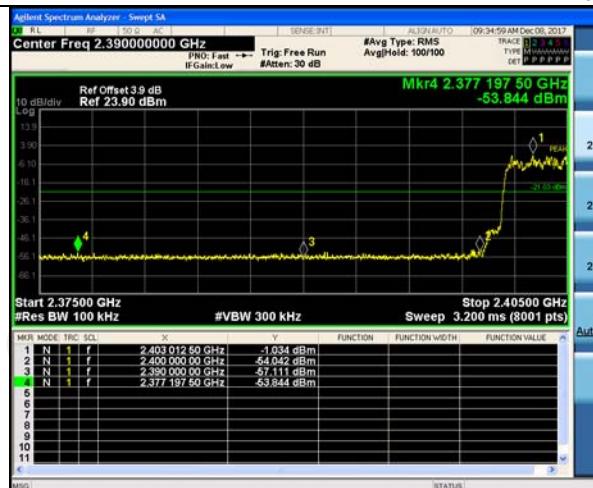
Frequency
Auto Tune
Center Freq
2.491000000 GHz
Start Freq
2.476000000 GHz
Stop Freq
2.506000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

π/4DQPSK/LCH/No Hop



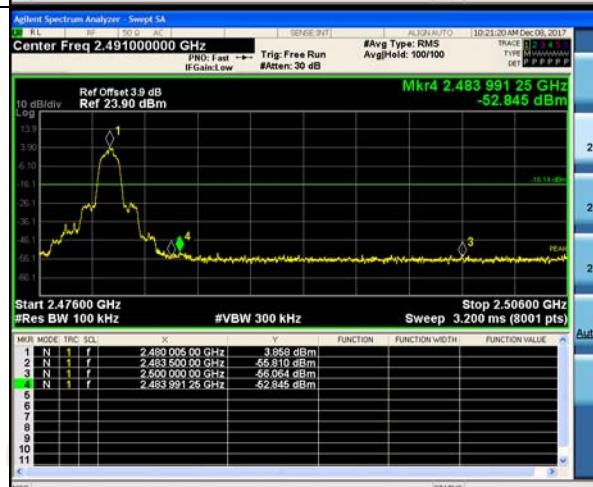
Frequency
Auto Tune
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2.390000000 GHz
Start Freq
2.375000000 GHz
Stop Freq
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CF Step
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Auto
Man
Freq Offset
0 Hz

π/4DQPSK/LCH/Hop



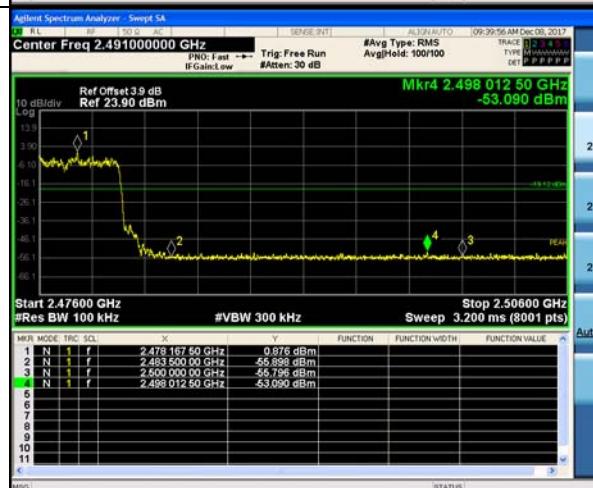
Frequency
Auto Tune
Center Freq
2.390000000 GHz
Start Freq
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π/4DQPSK/HCH/No Hop



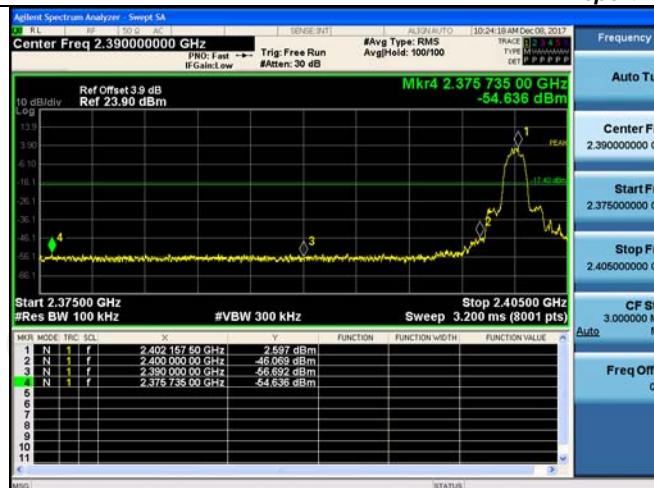
Frequency
Auto Tune
Center Freq
2.491000000 GHz
Start Freq
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Stop Freq
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CF Step
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Auto
Man
Freq Offset
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π/4DQPSK/HCH/Hop

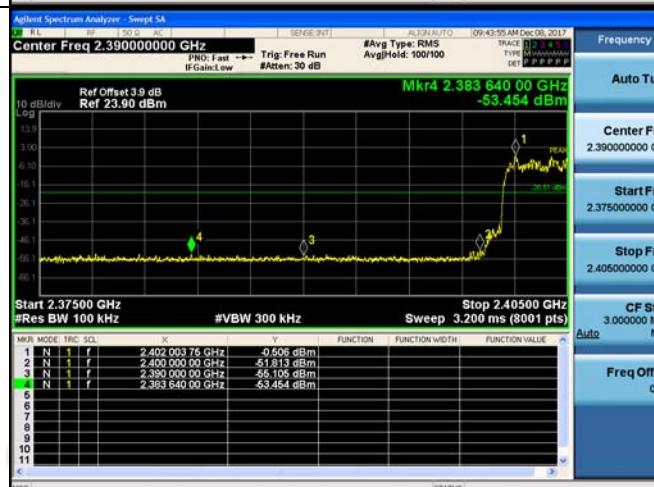


Frequency
Auto Tune
Center Freq
2.491000000 GHz
Start Freq
2.476000000 GHz
Stop Freq
2.506000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

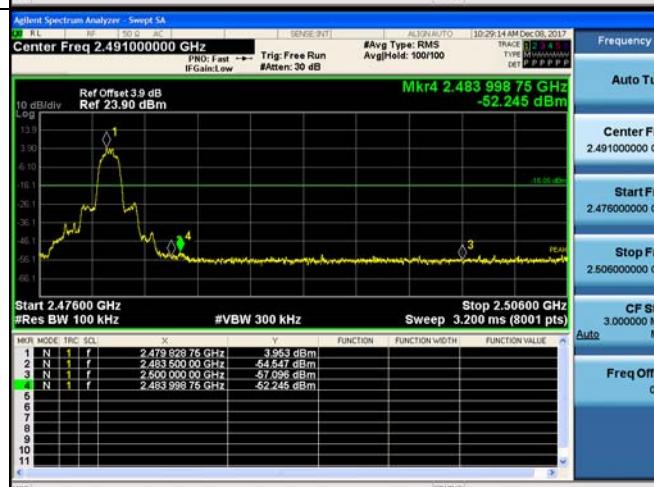
8DPSK/LCH/No Hop

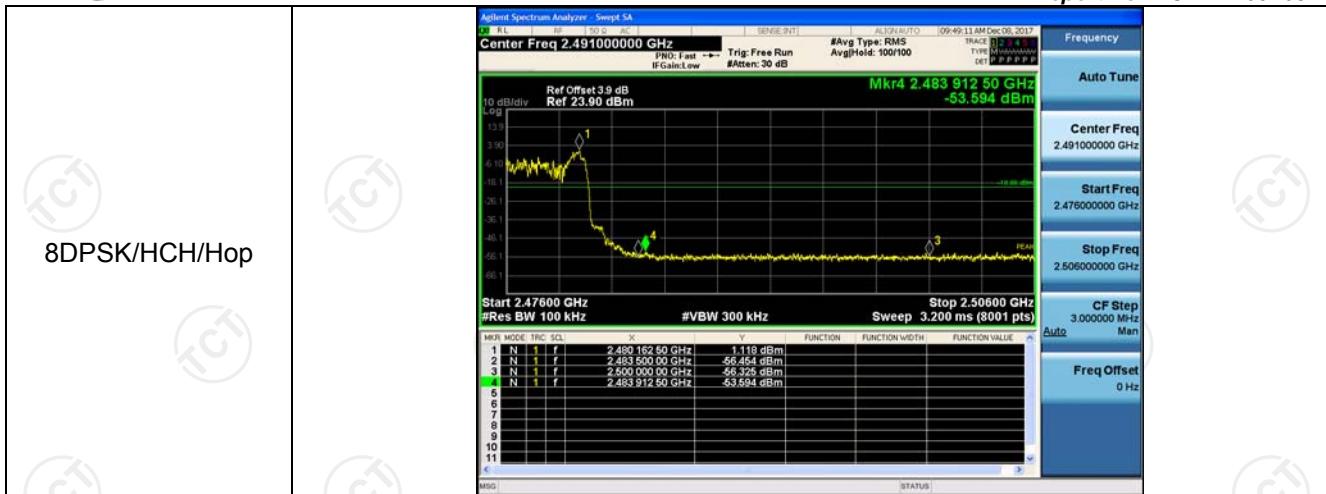


8DPSK/LCH/Hop



8DPSK/HCH/No Hop



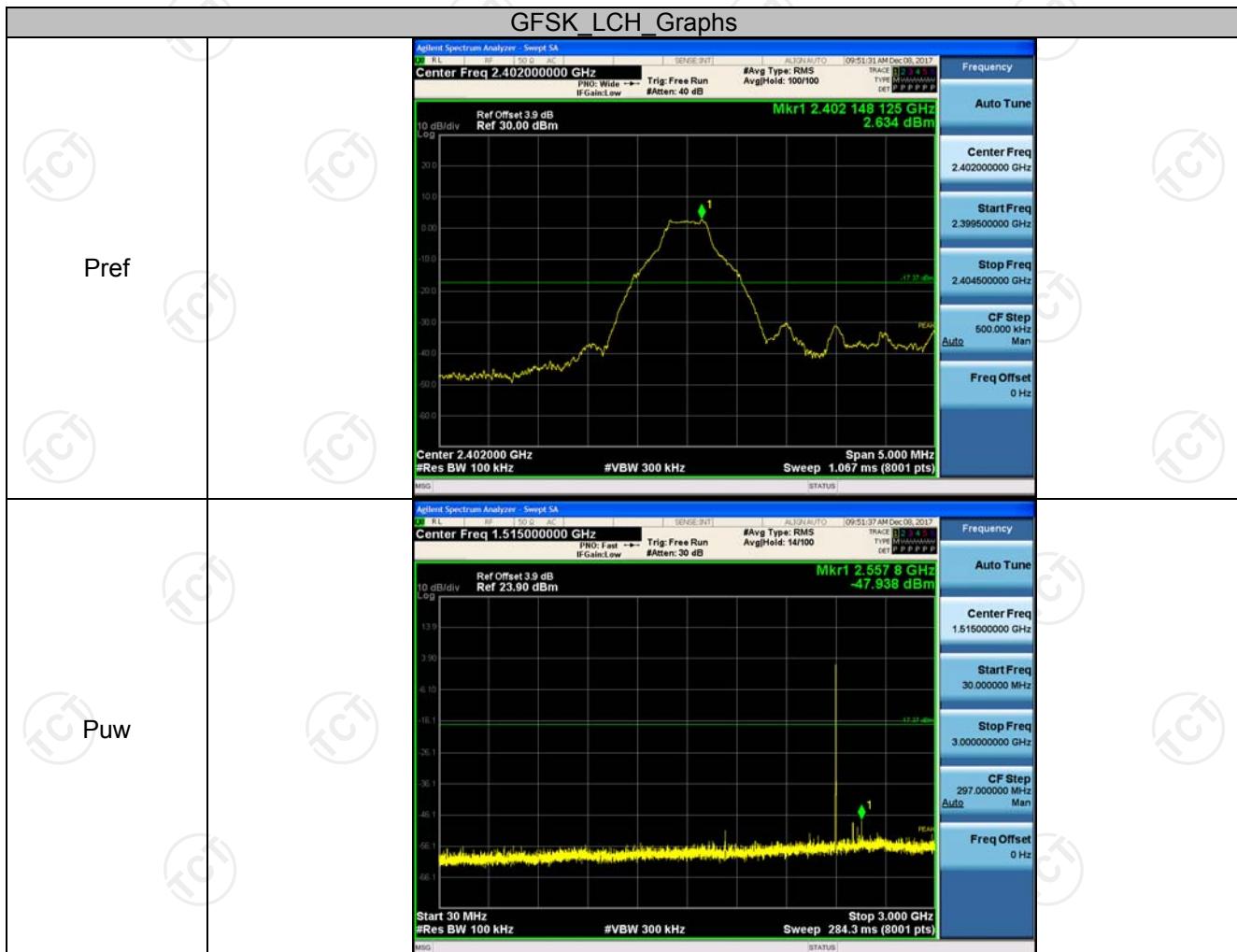


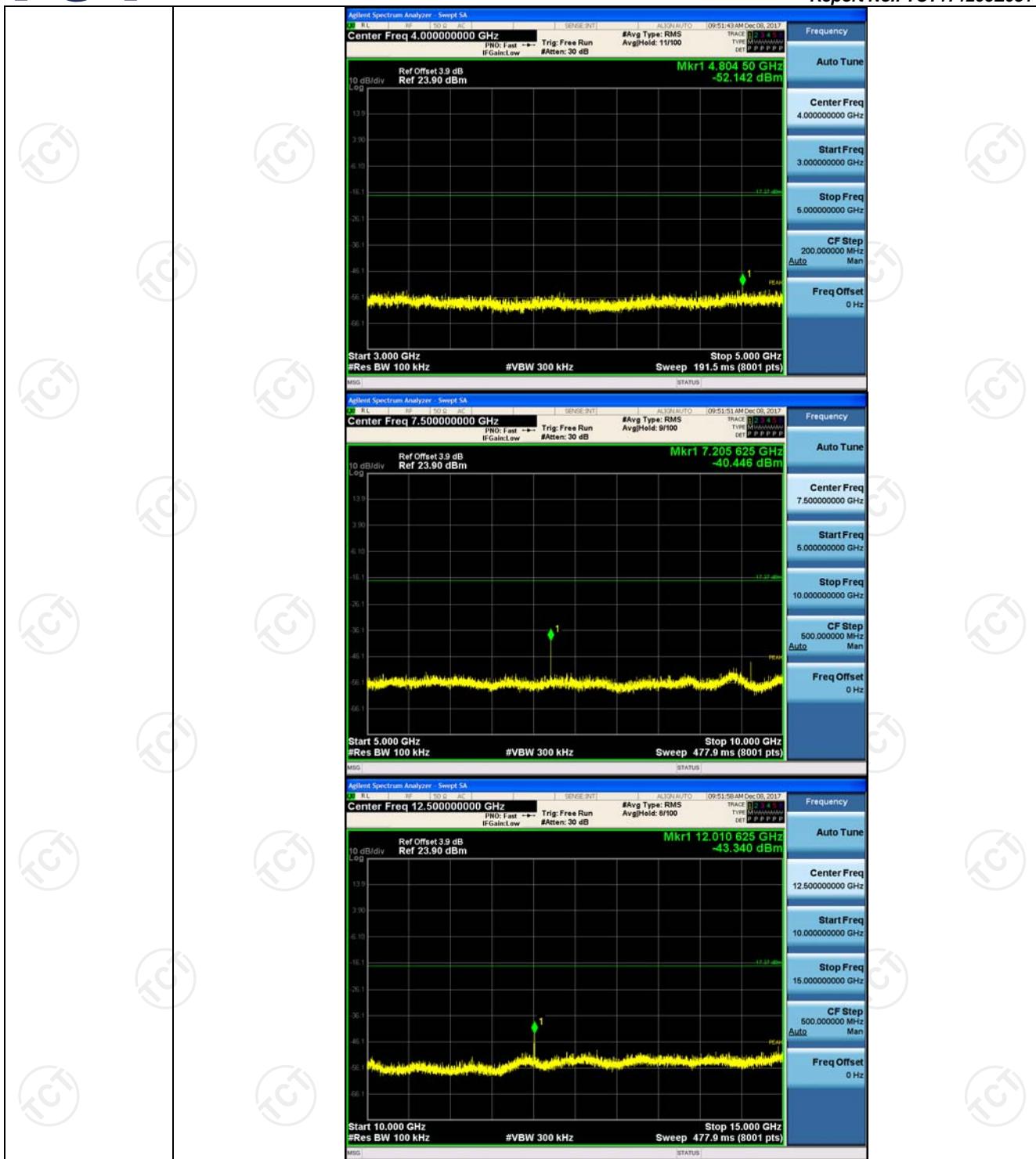
RF Conducted Spurious Emissions

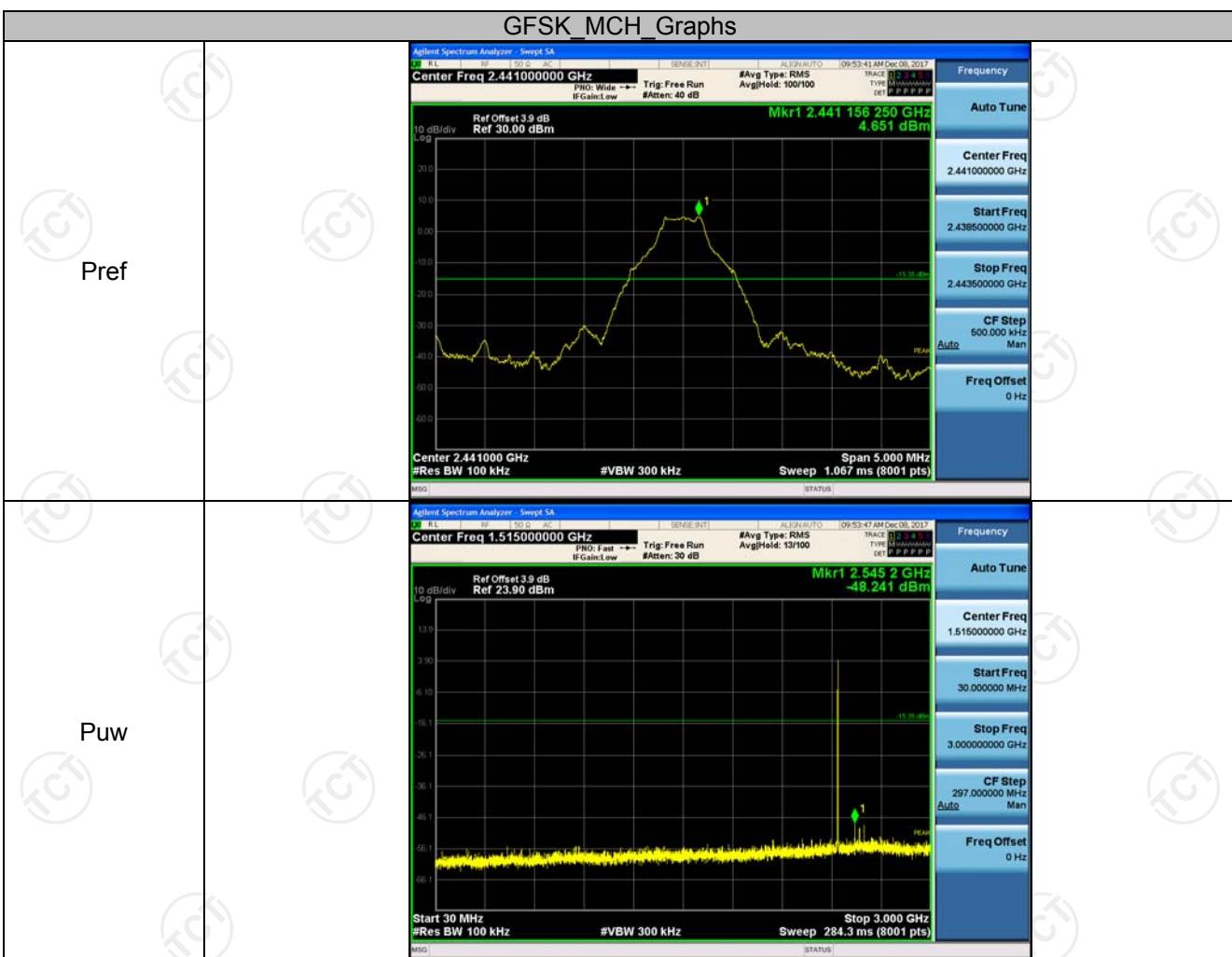
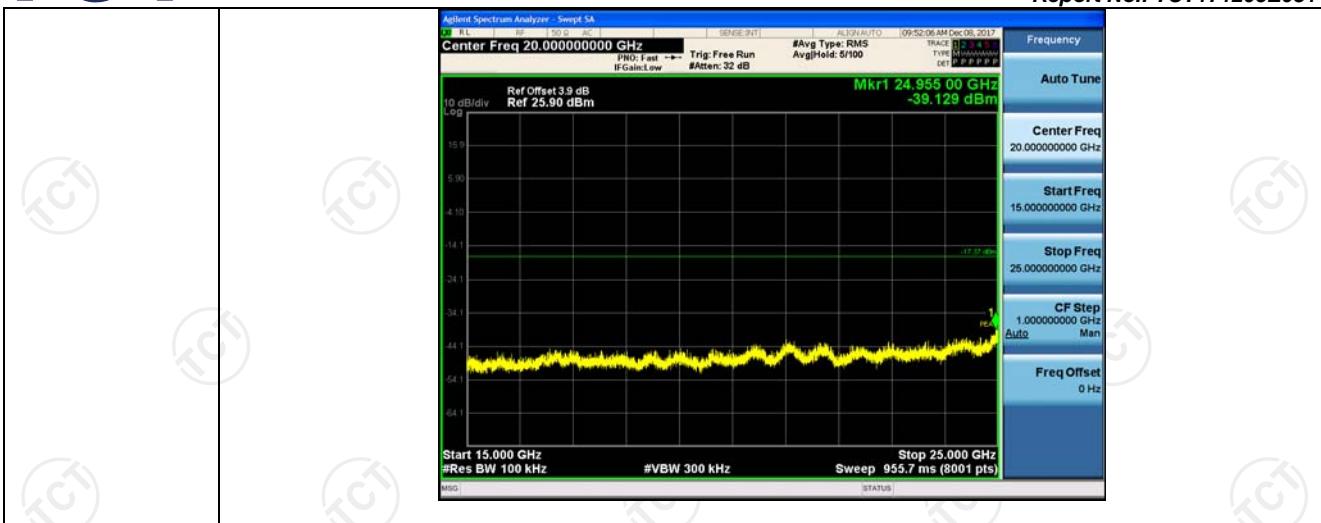
Result Table

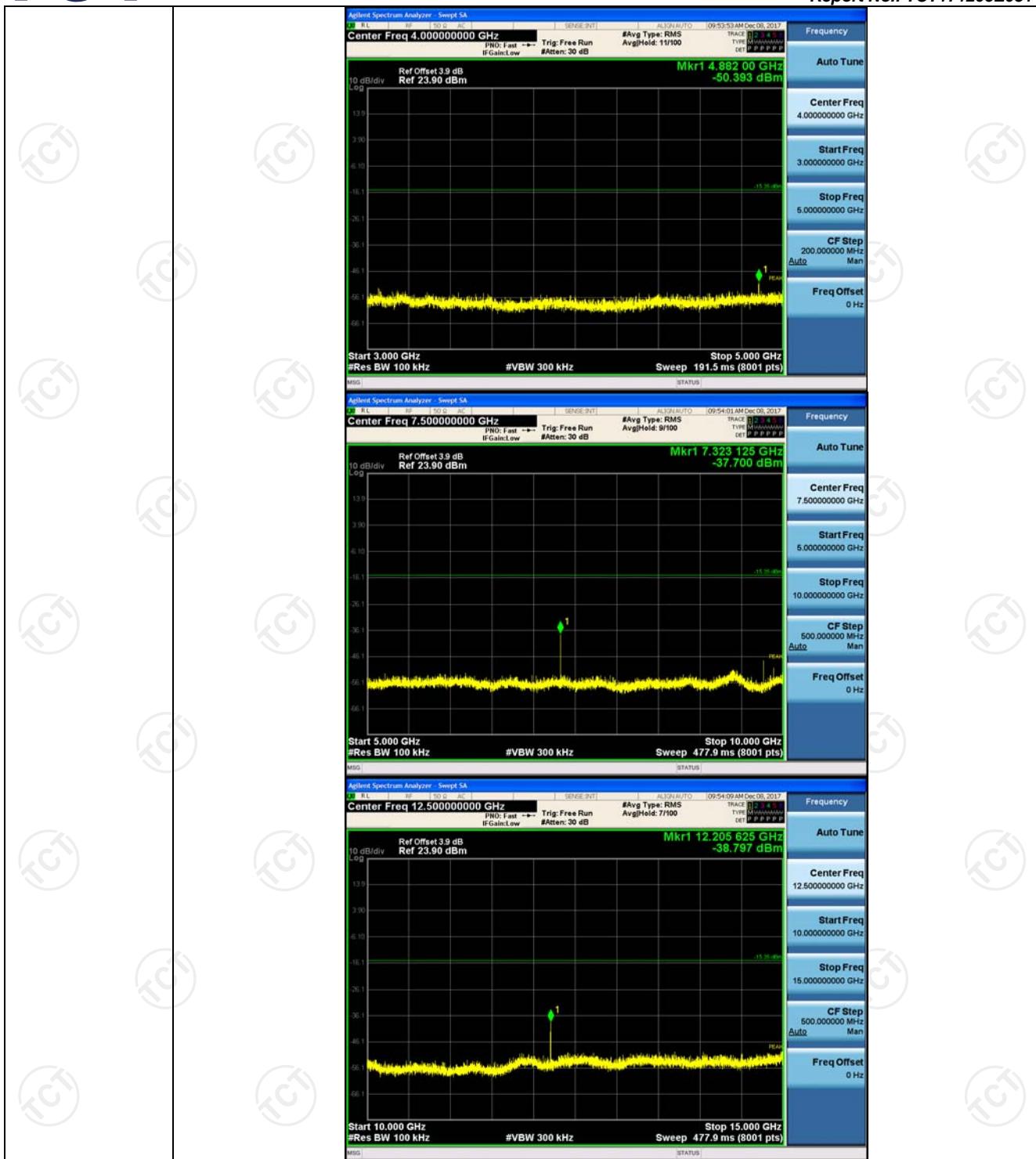
Mode	Channel	Pref [dBm]	Puw [dBm]	Verdict
GFSK	LCH	2.634	<Limit	PASS
GFSK	MCH	4.651	<Limit	PASS
GFSK	HCH	4.189	<Limit	PASS
π/4DQPSK	LCH	2.586	<Limit	PASS
π/4DQPSK	MCH	4.135	<Limit	PASS
π/4DQPSK	HCH	3.395	<Limit	PASS
8DPSK	LCH	2.678	<Limit	PASS
8DPSK	MCH	4.26	<Limit	PASS
8DPSK	HCH	3.849	<Limit	PASS

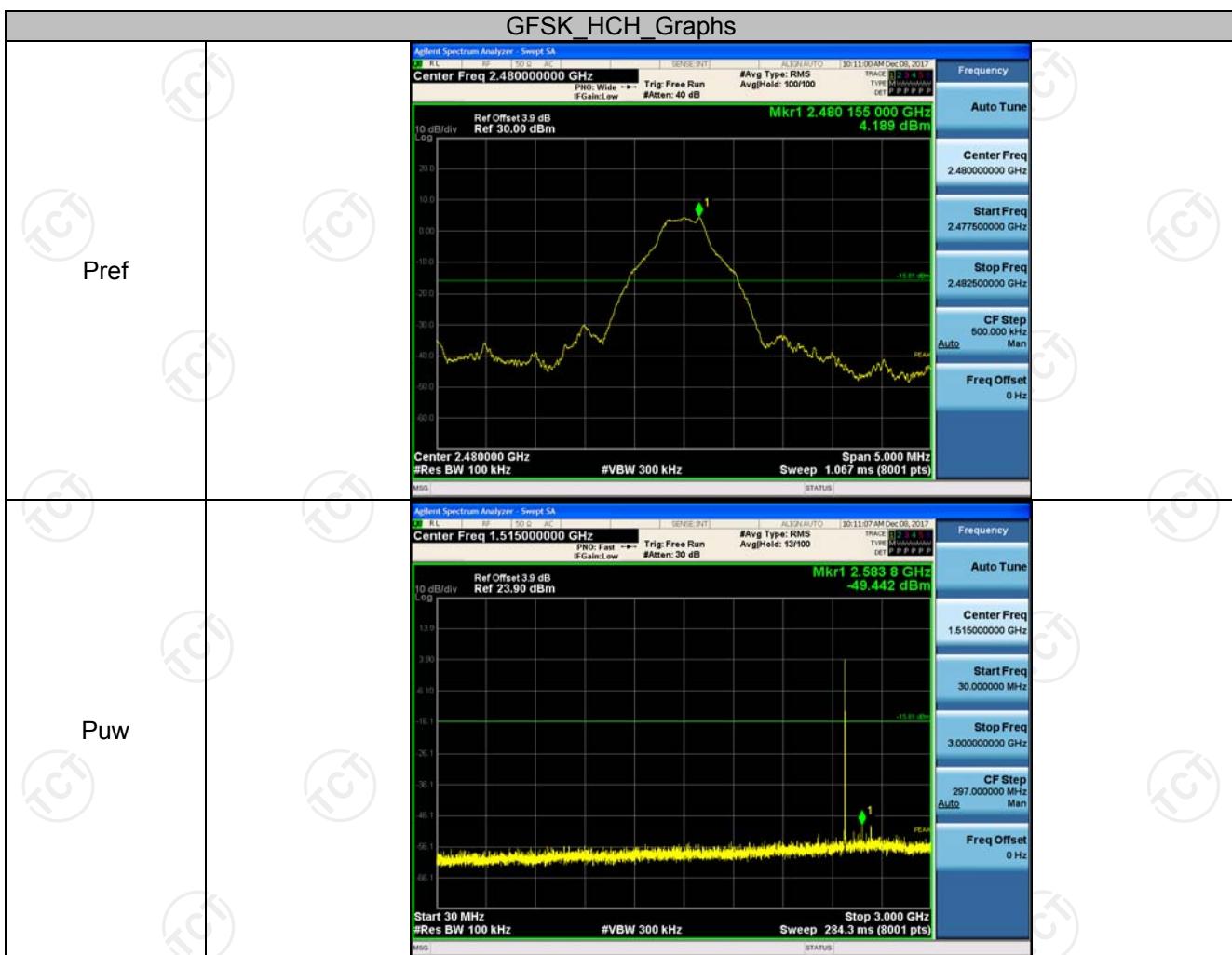
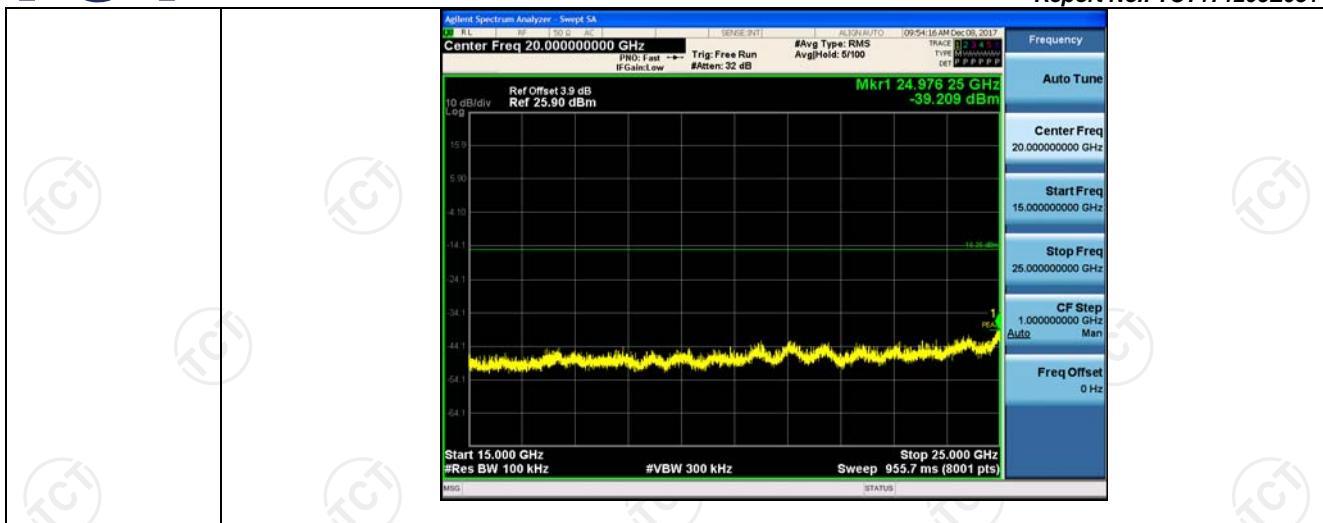
Test Graph

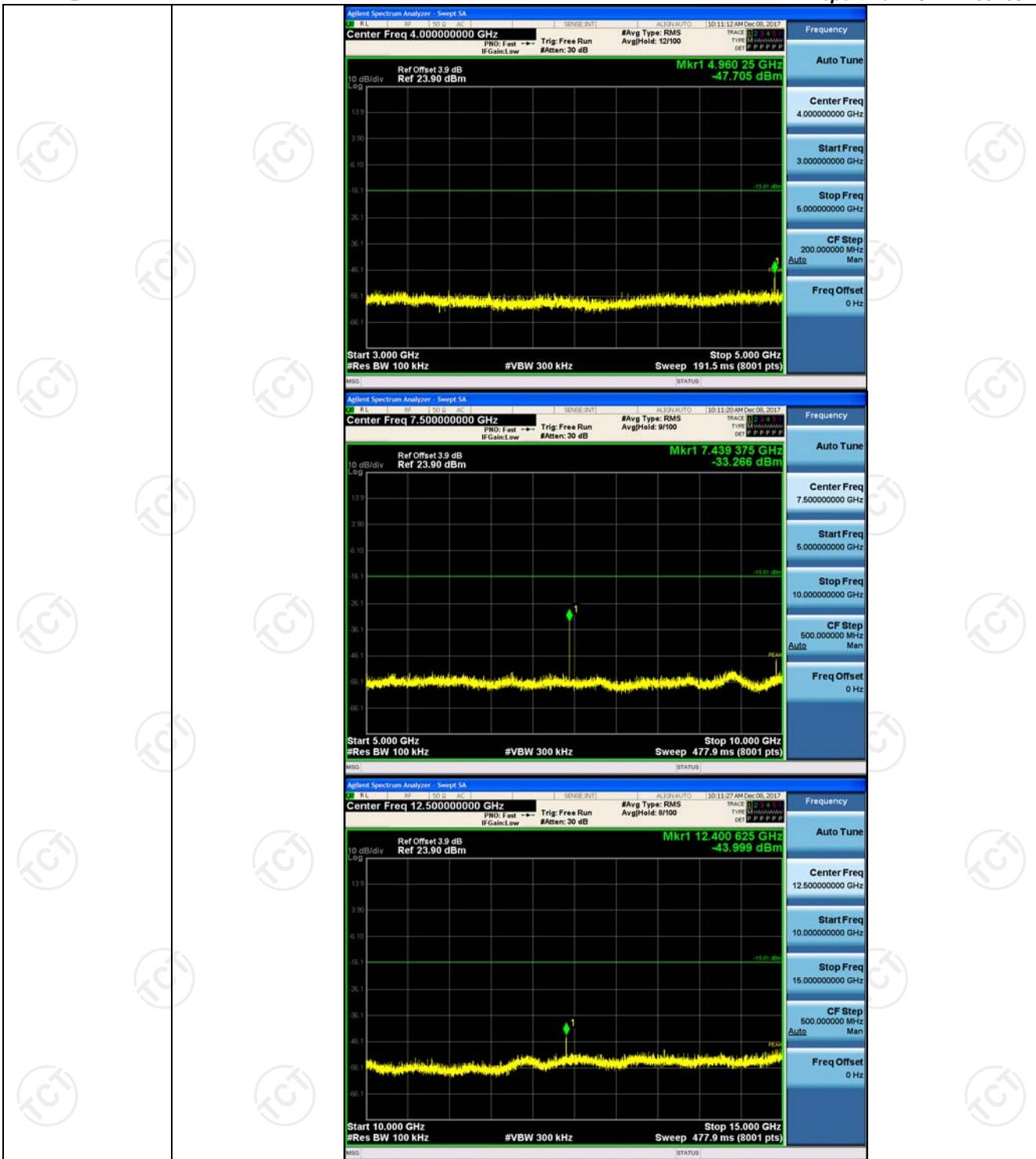


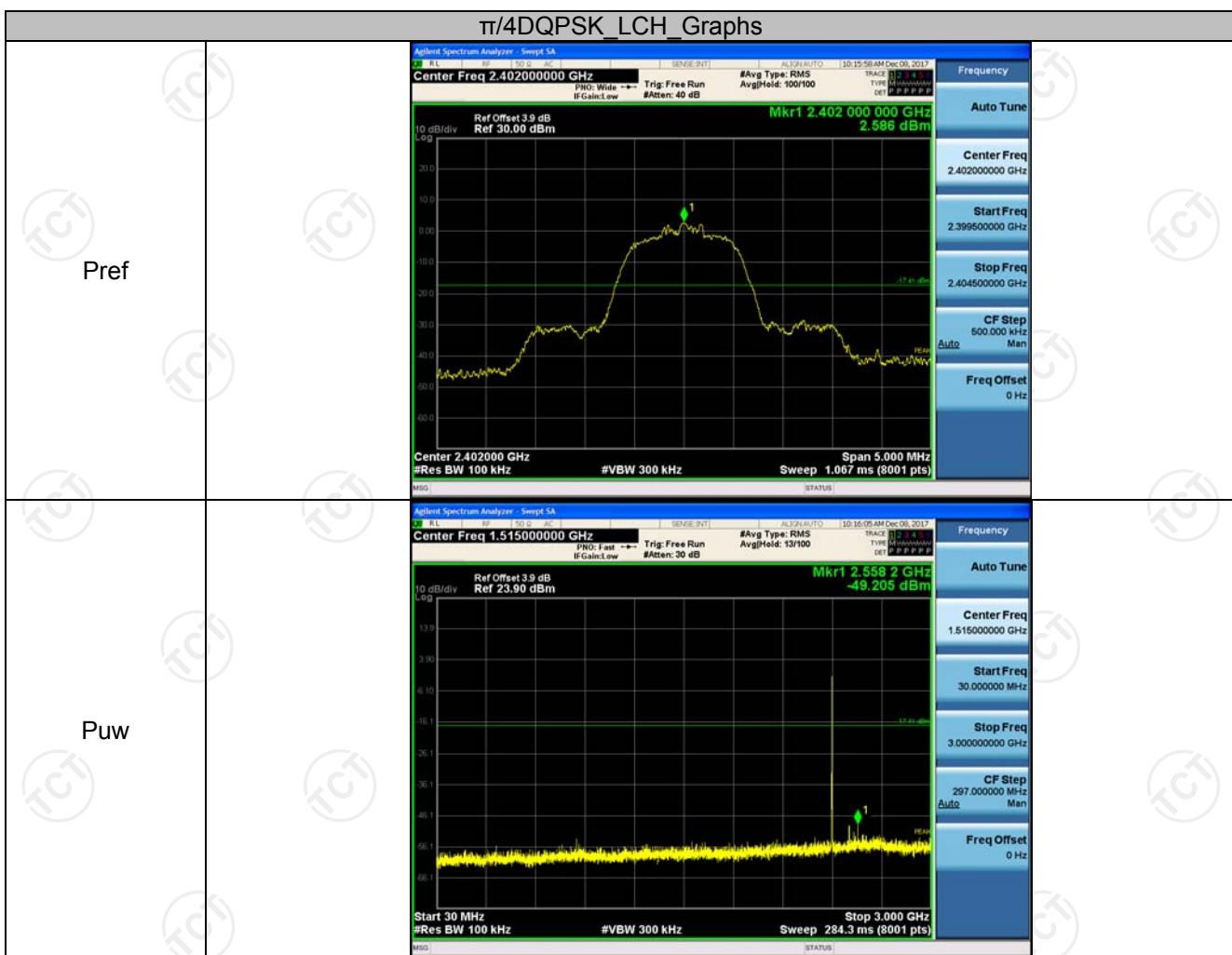
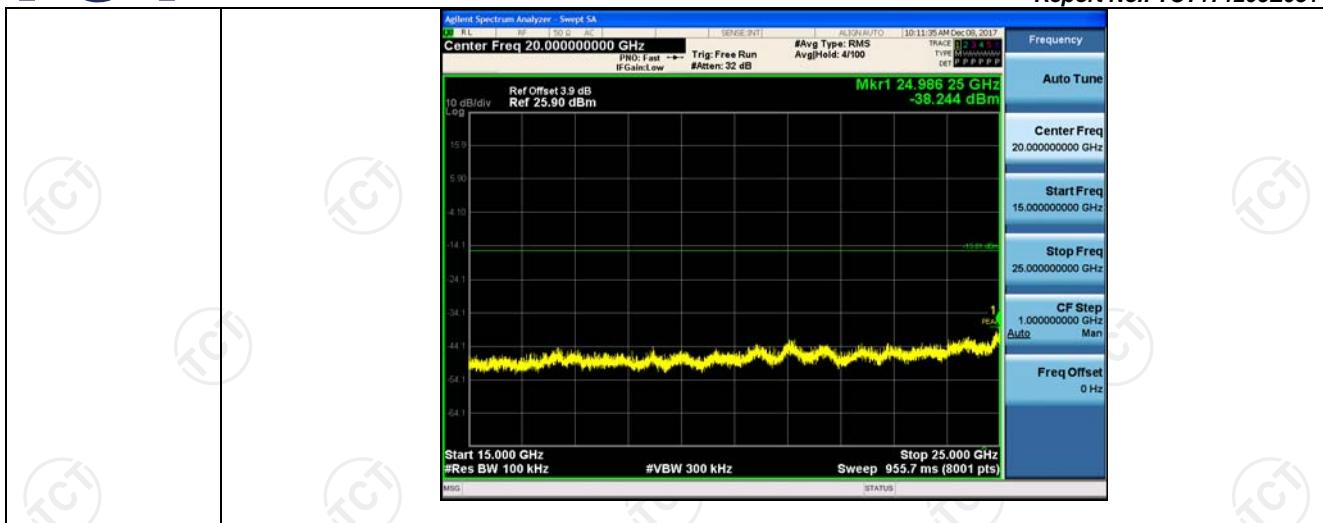


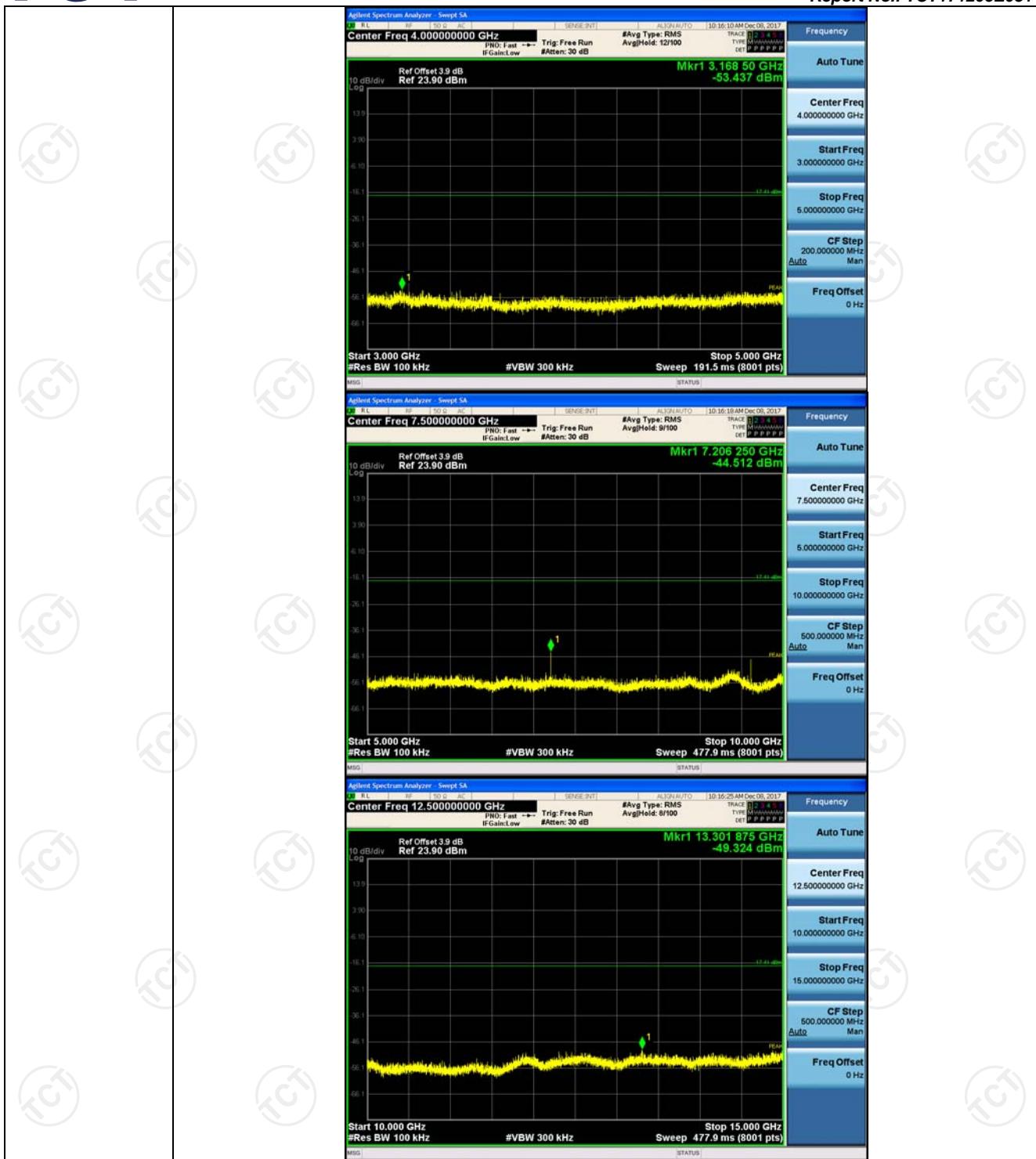


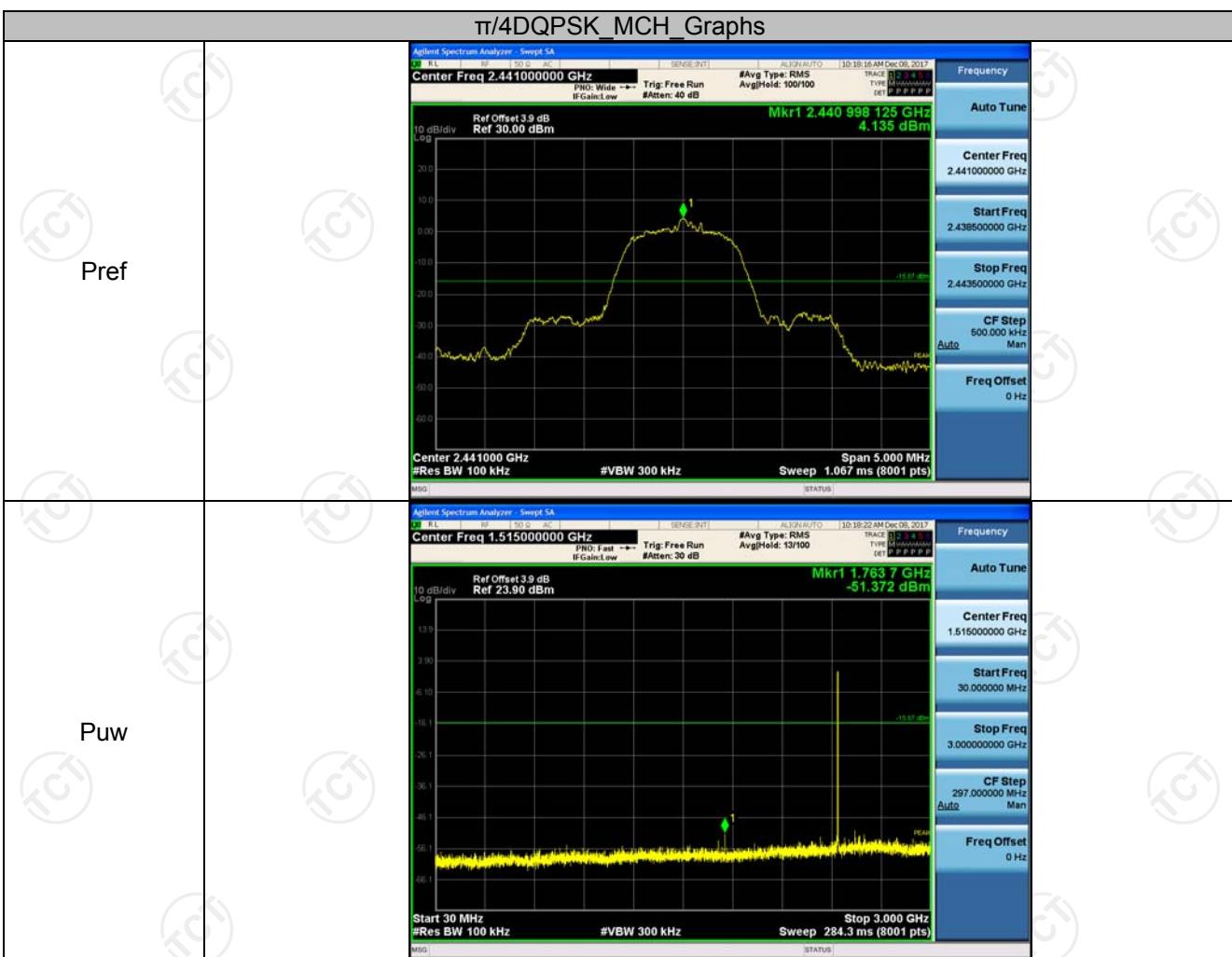
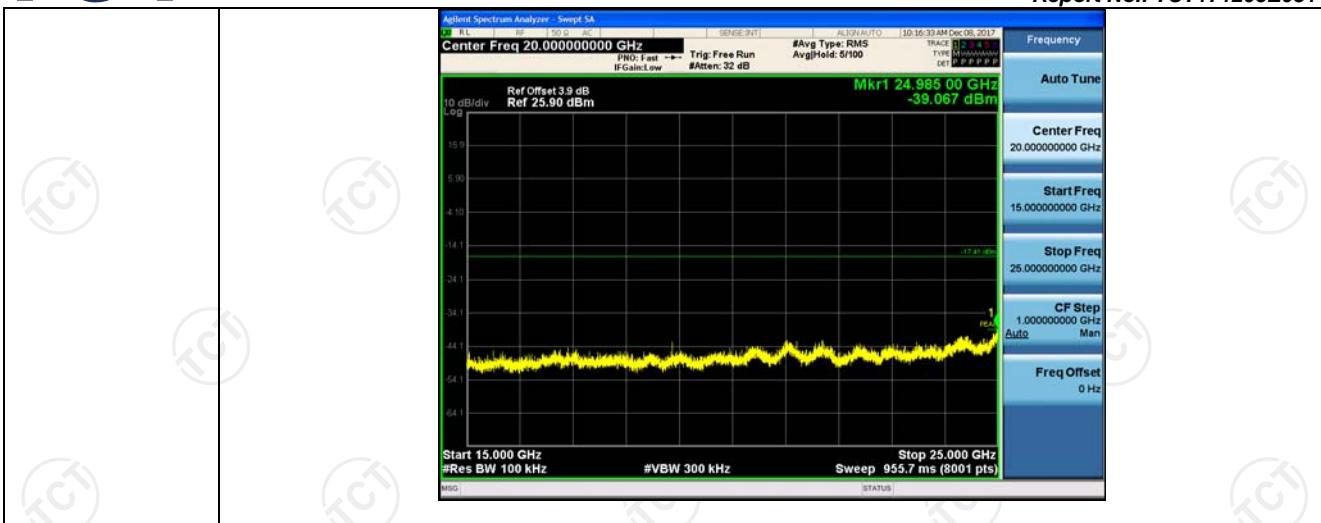


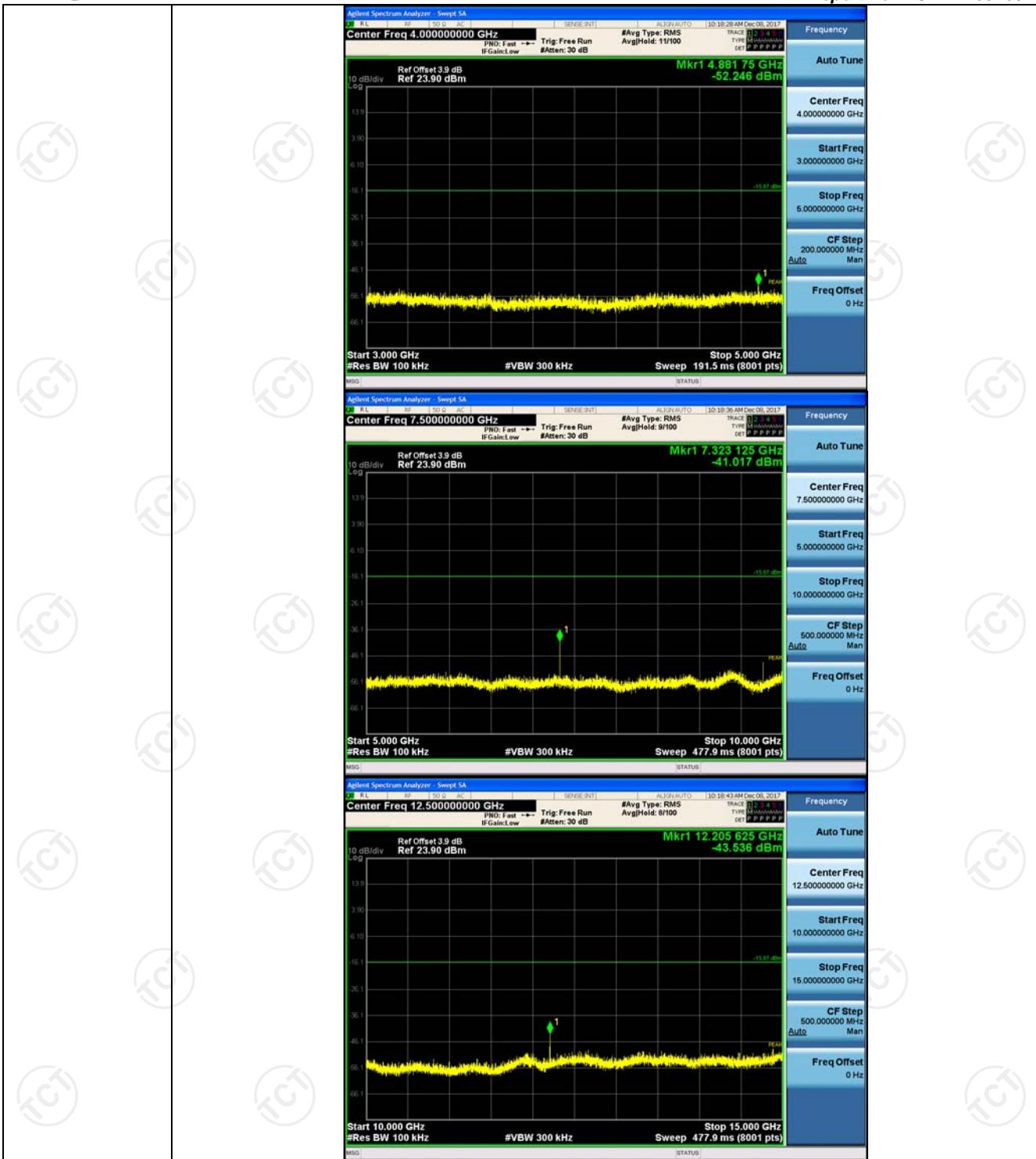


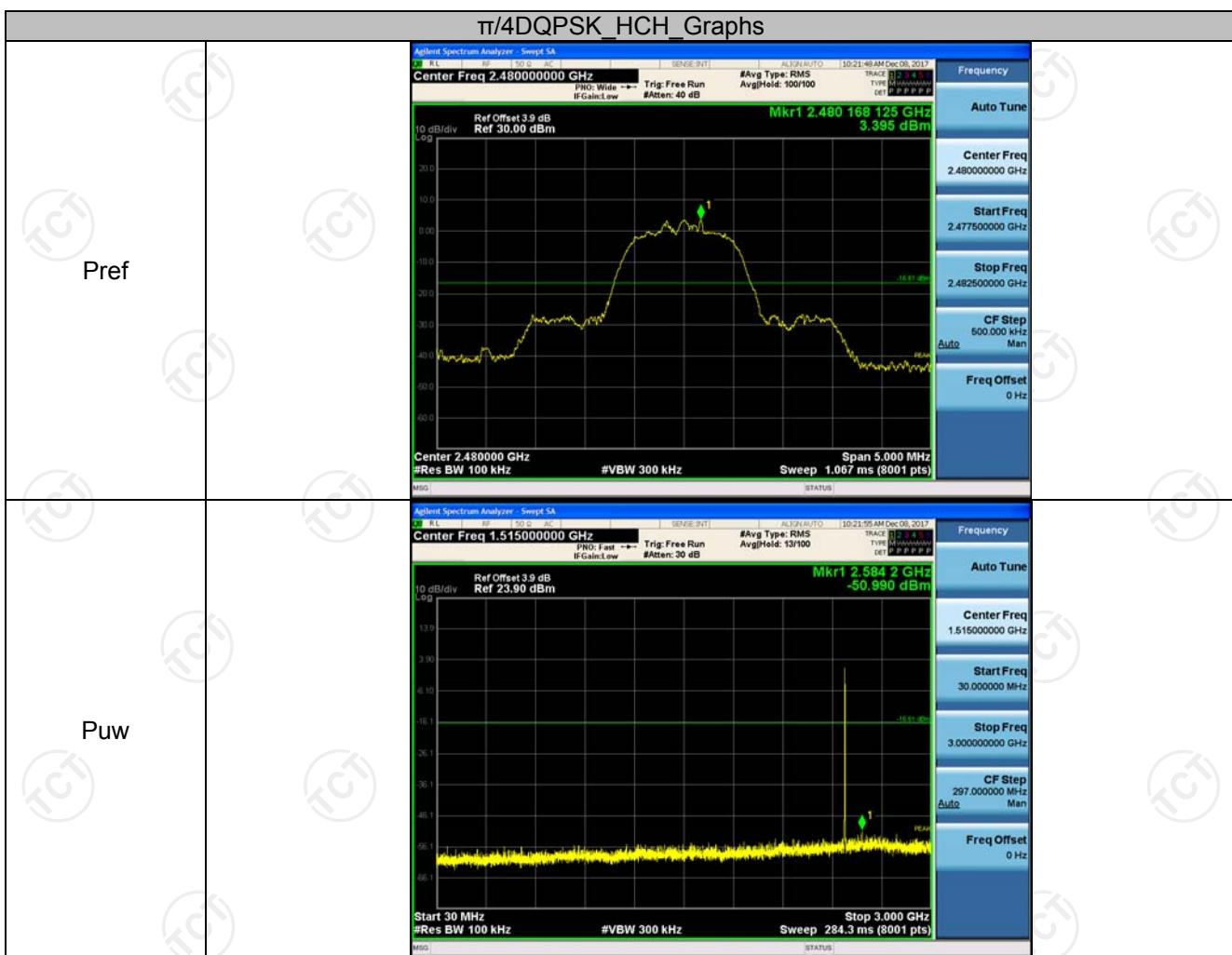
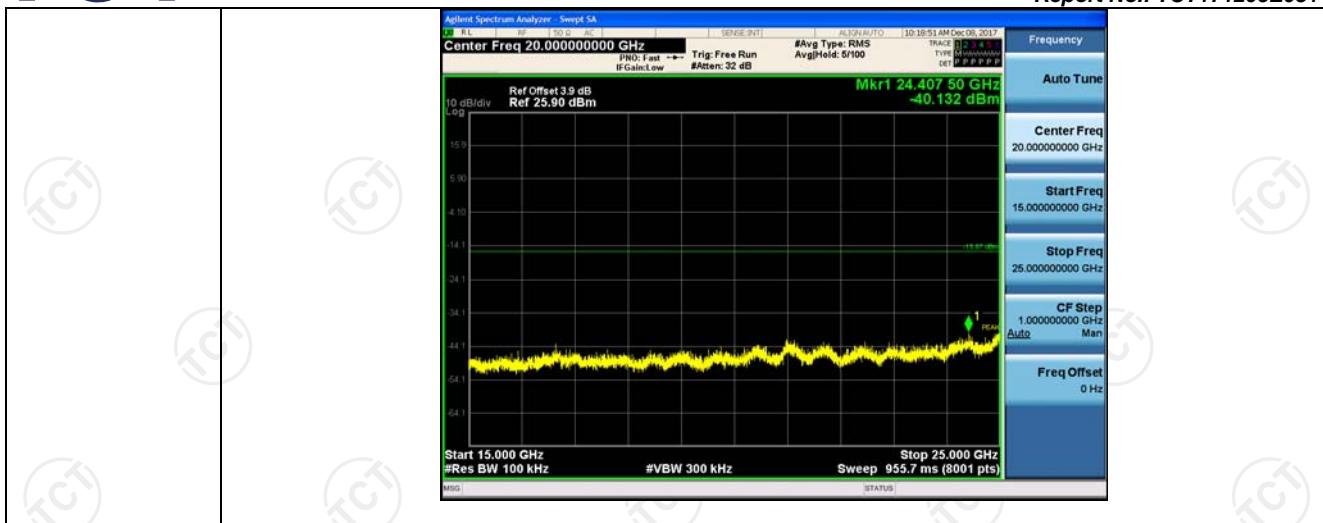


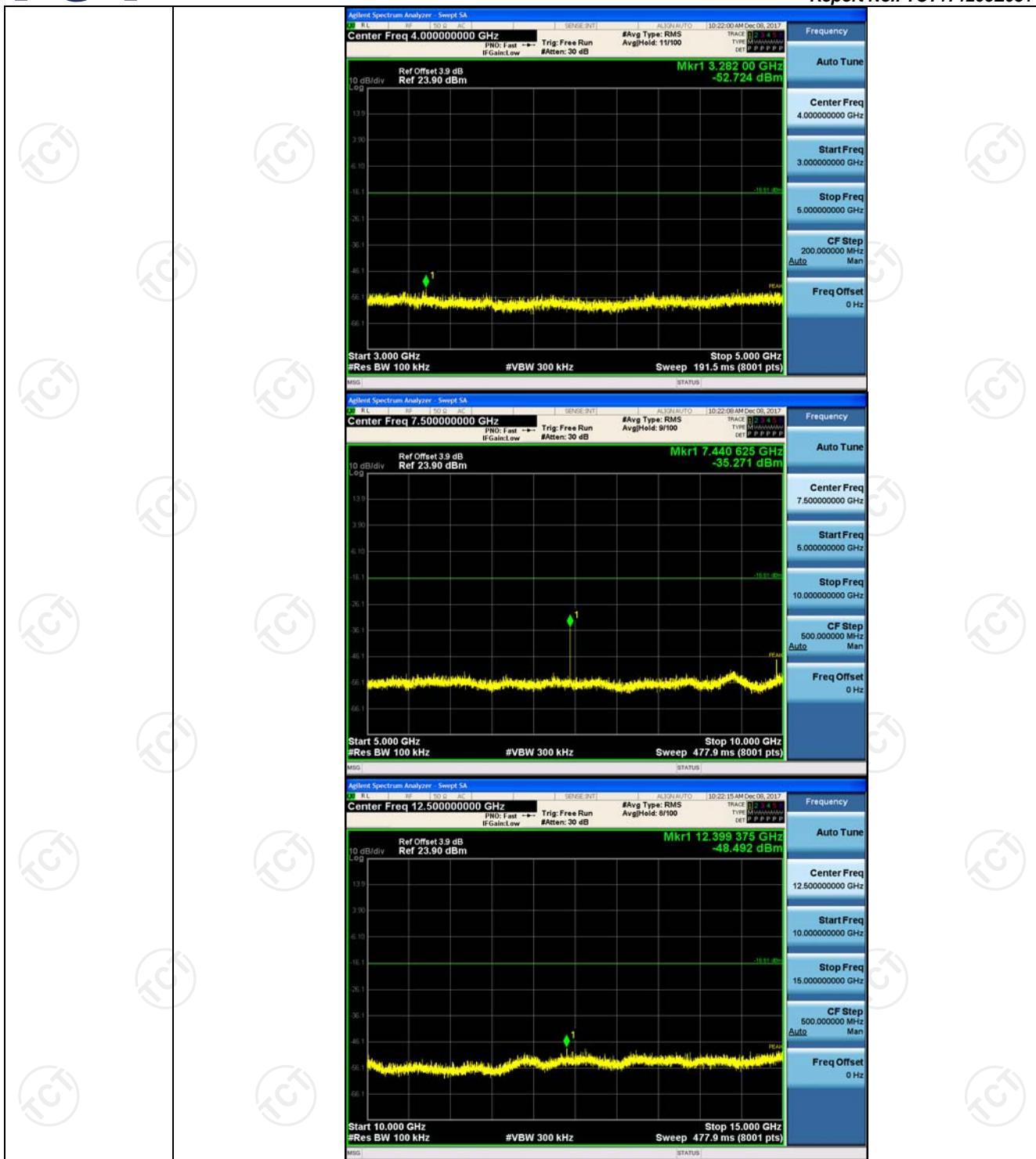


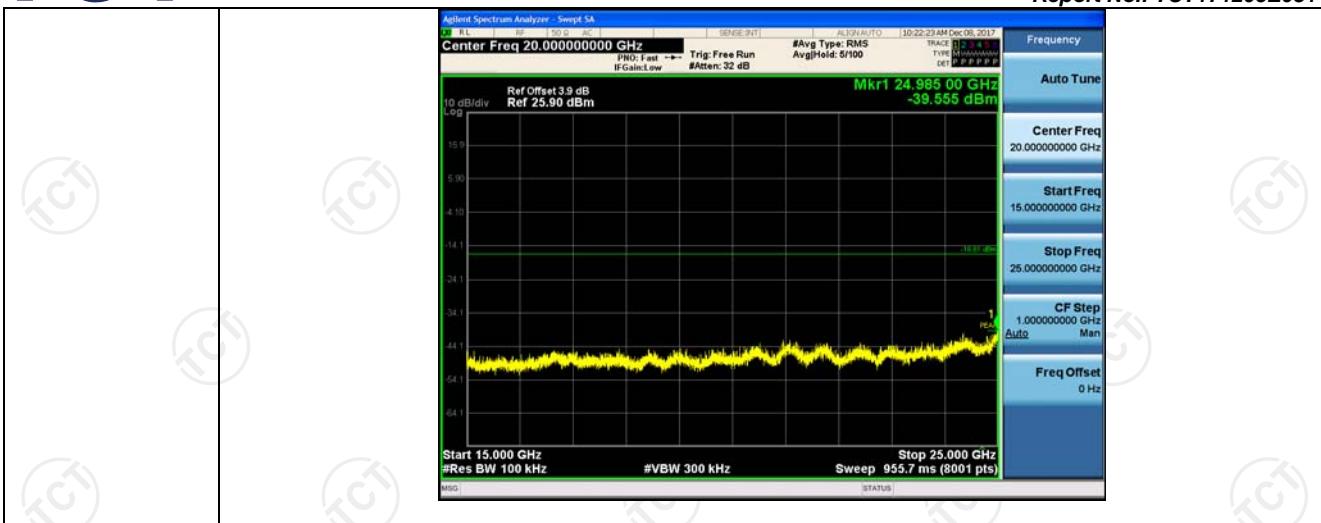


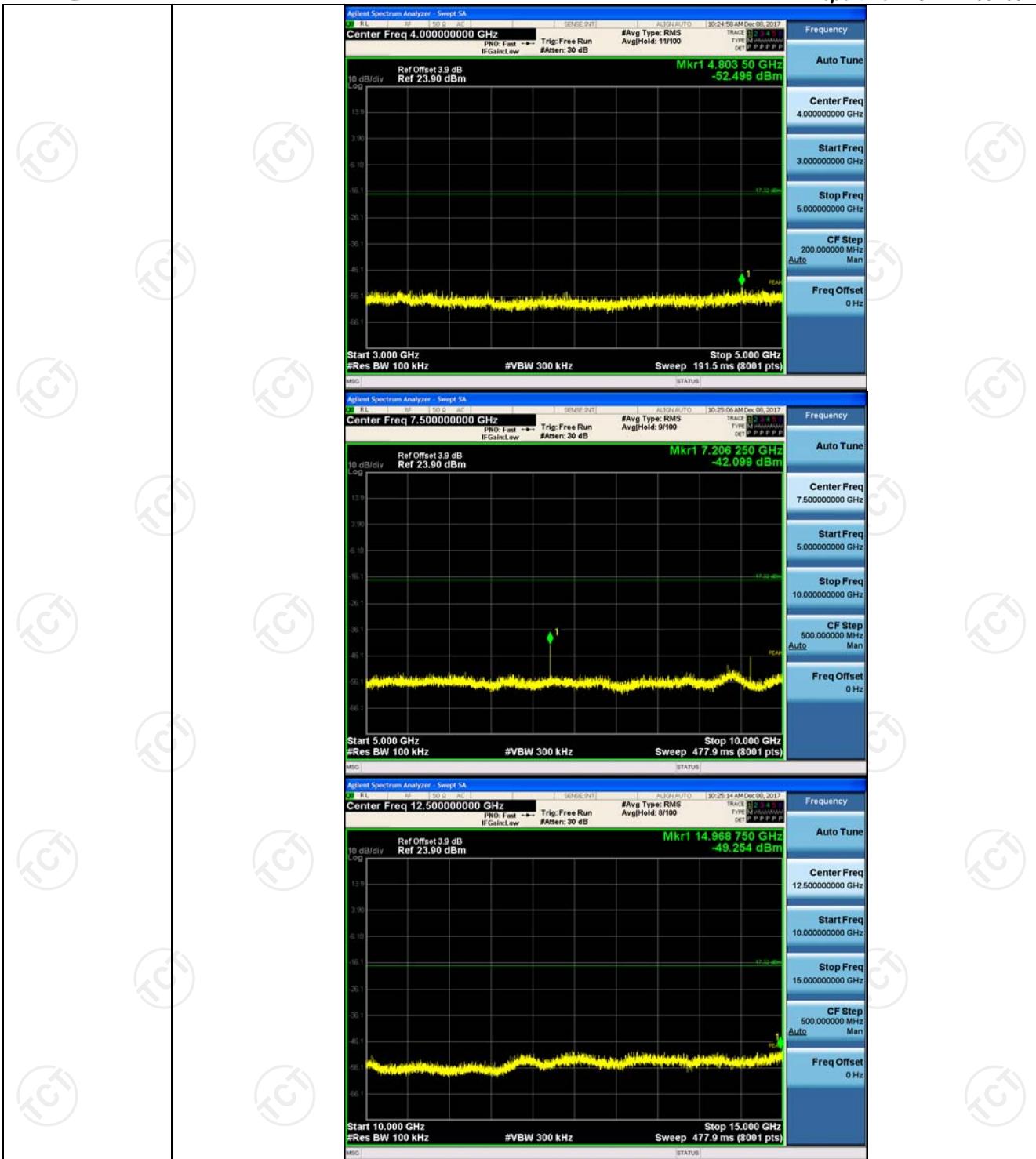


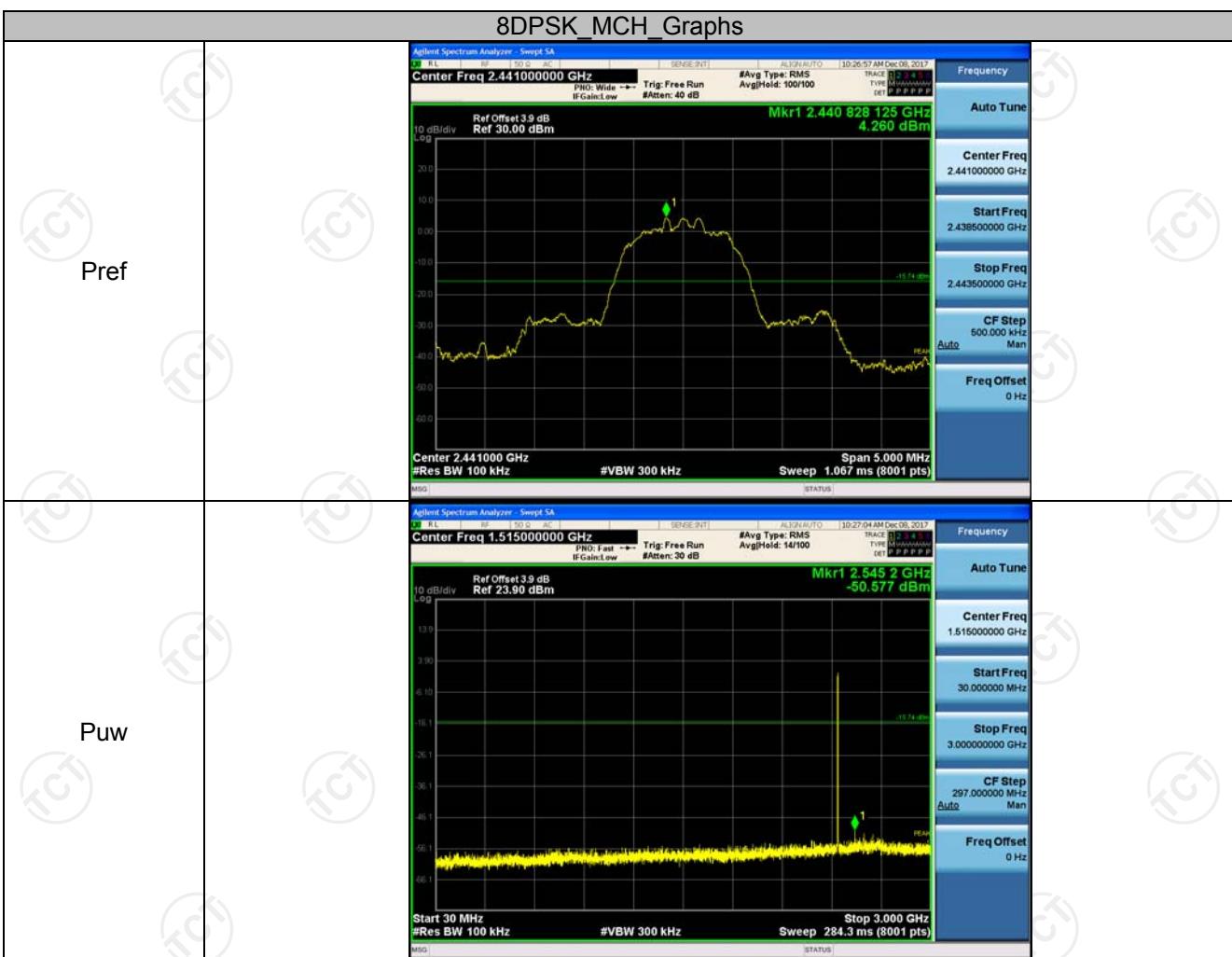
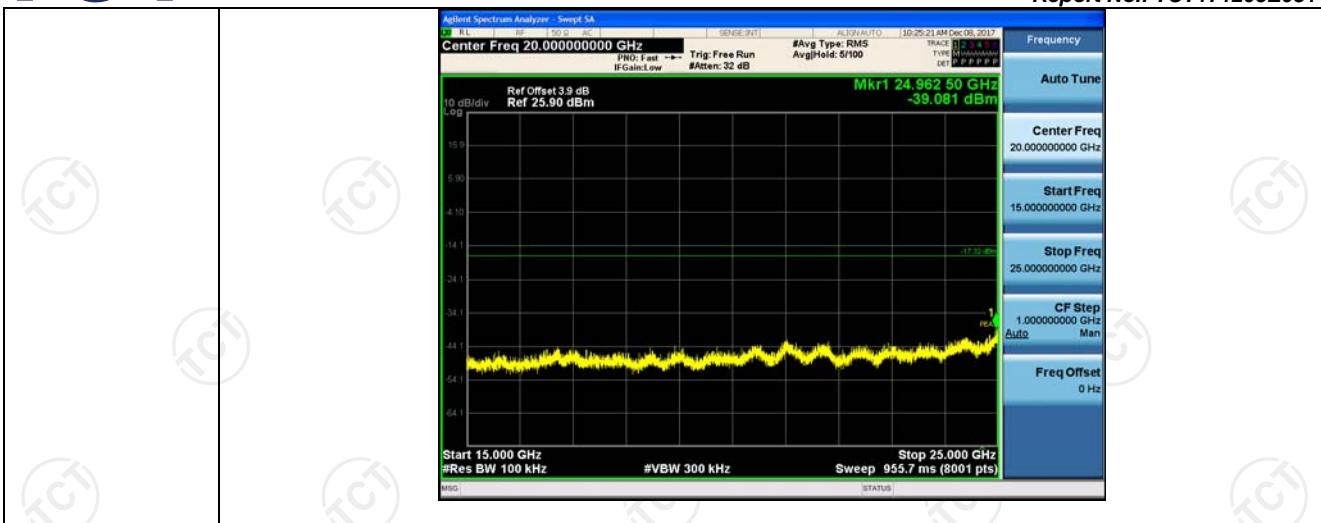


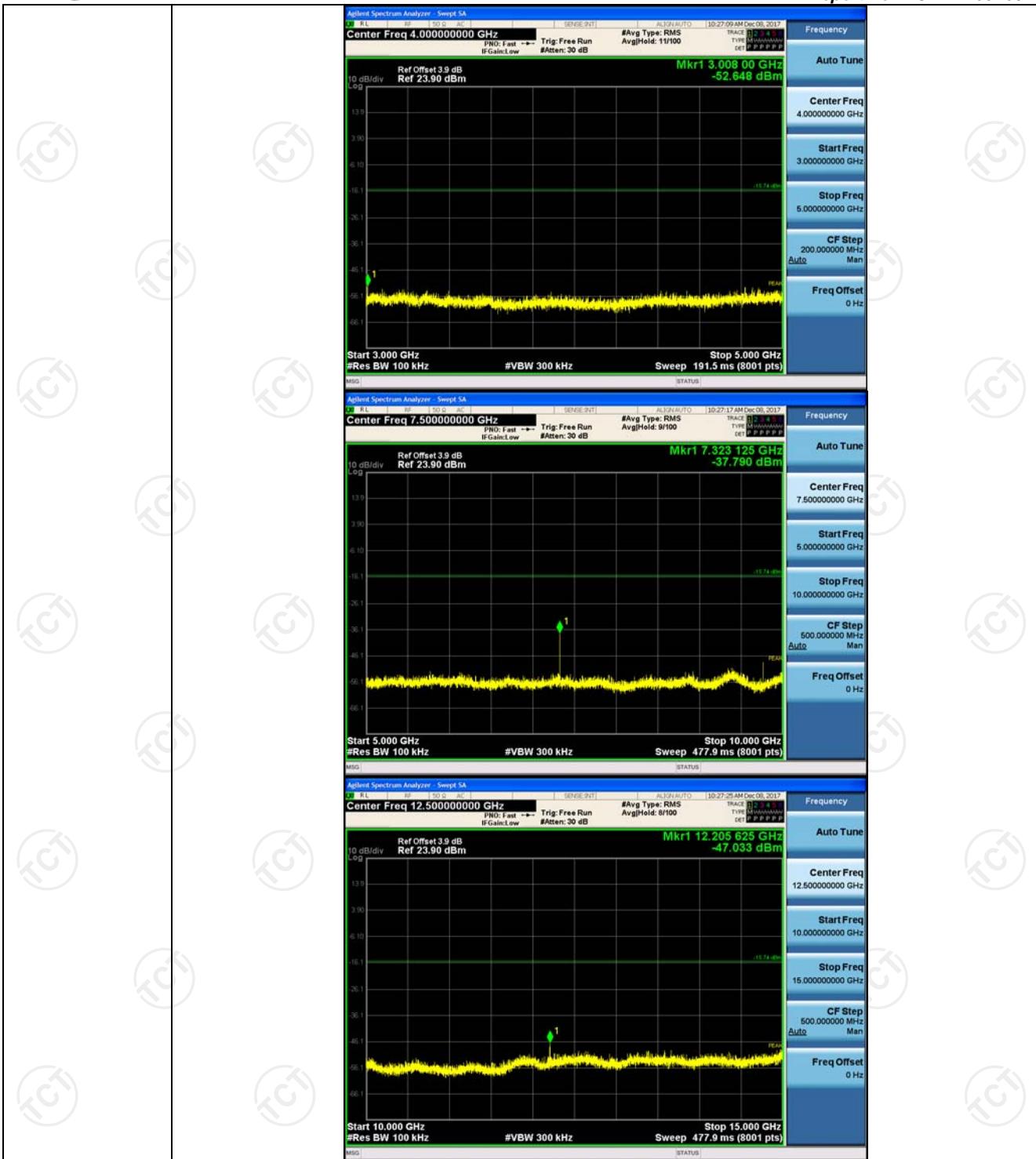


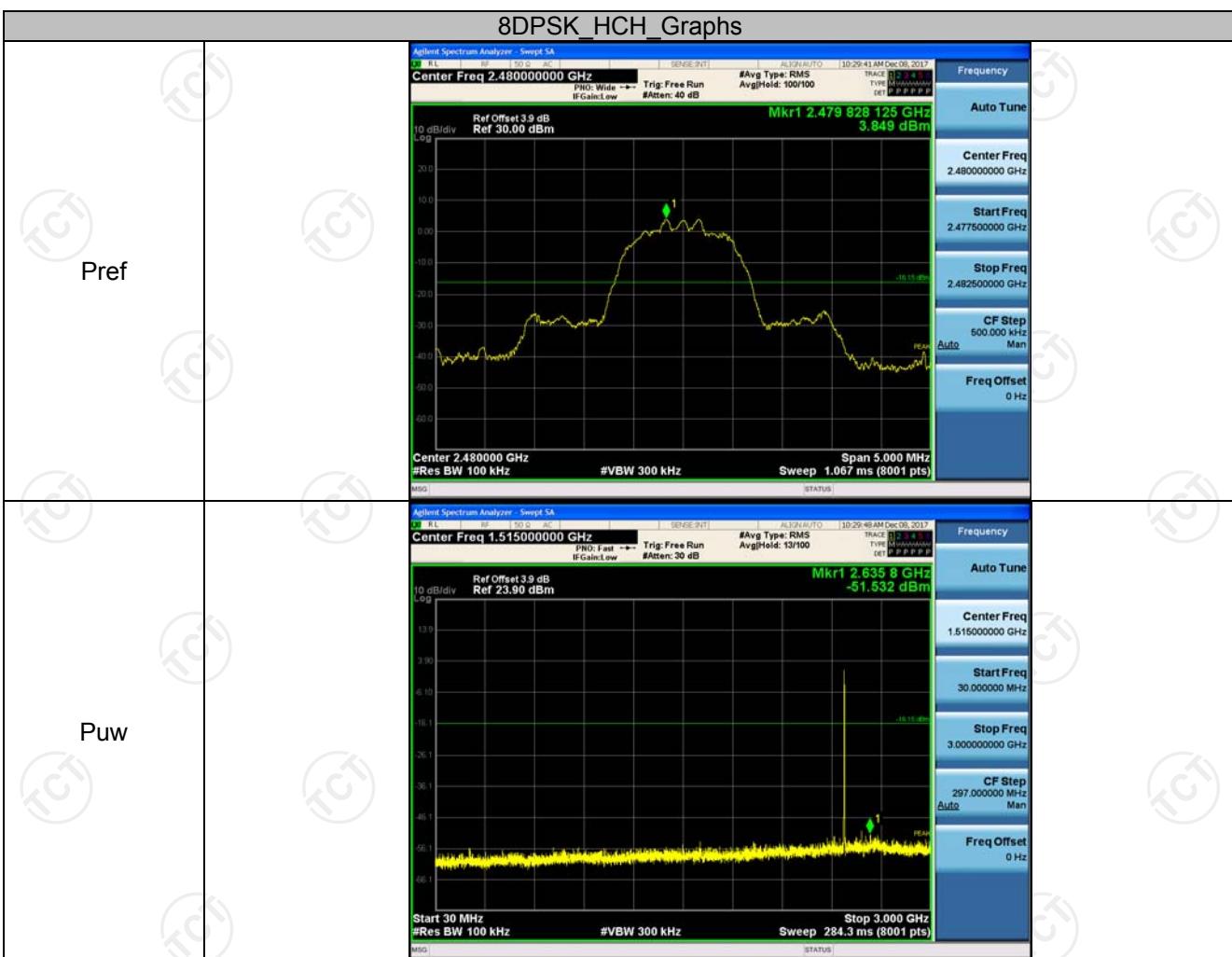
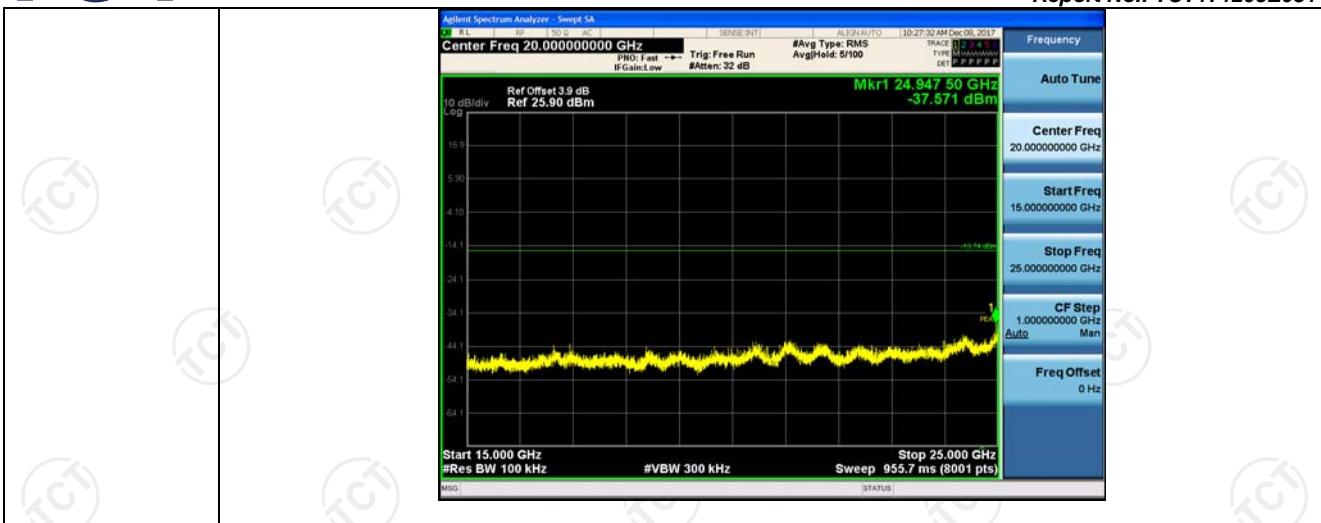


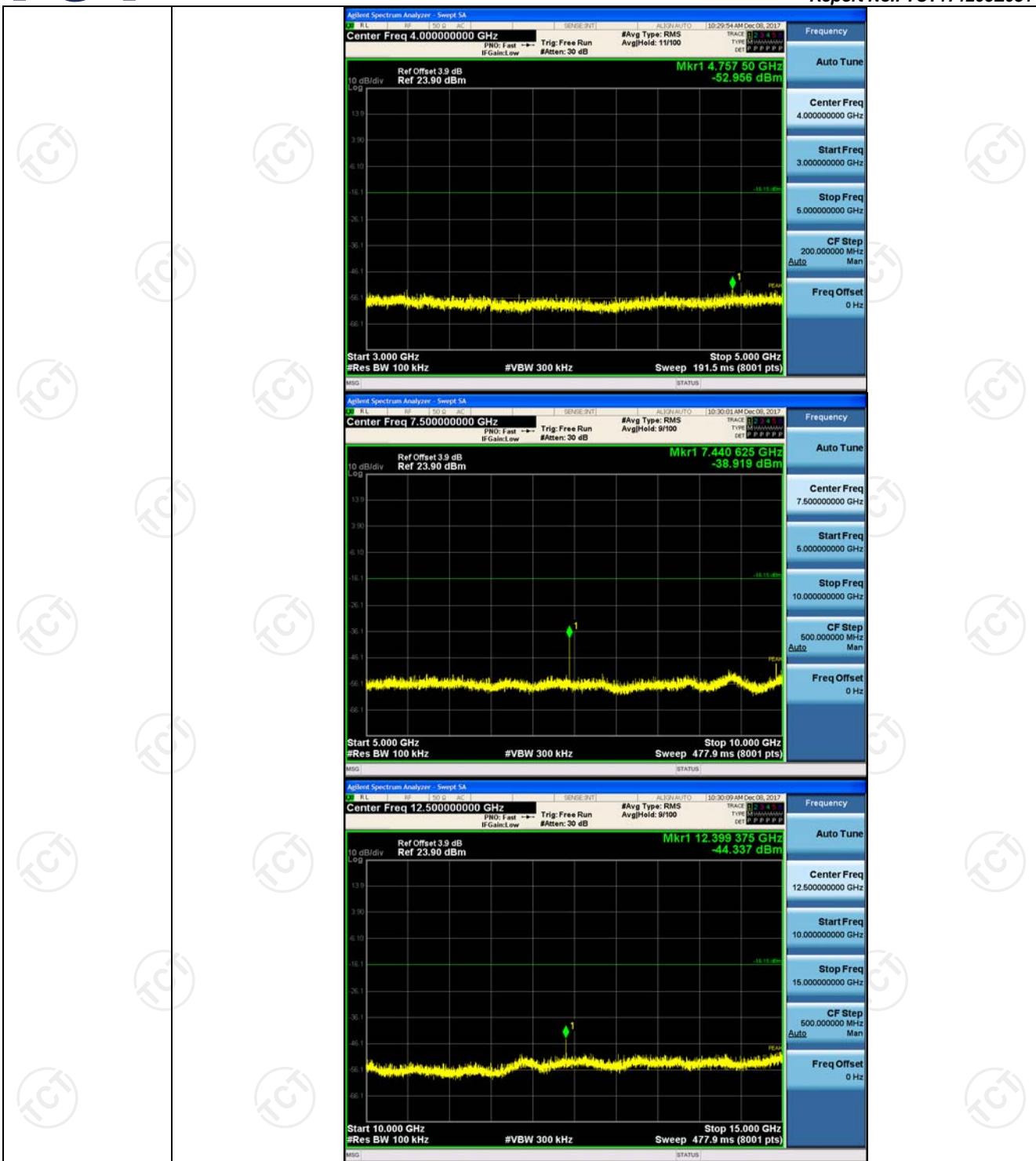


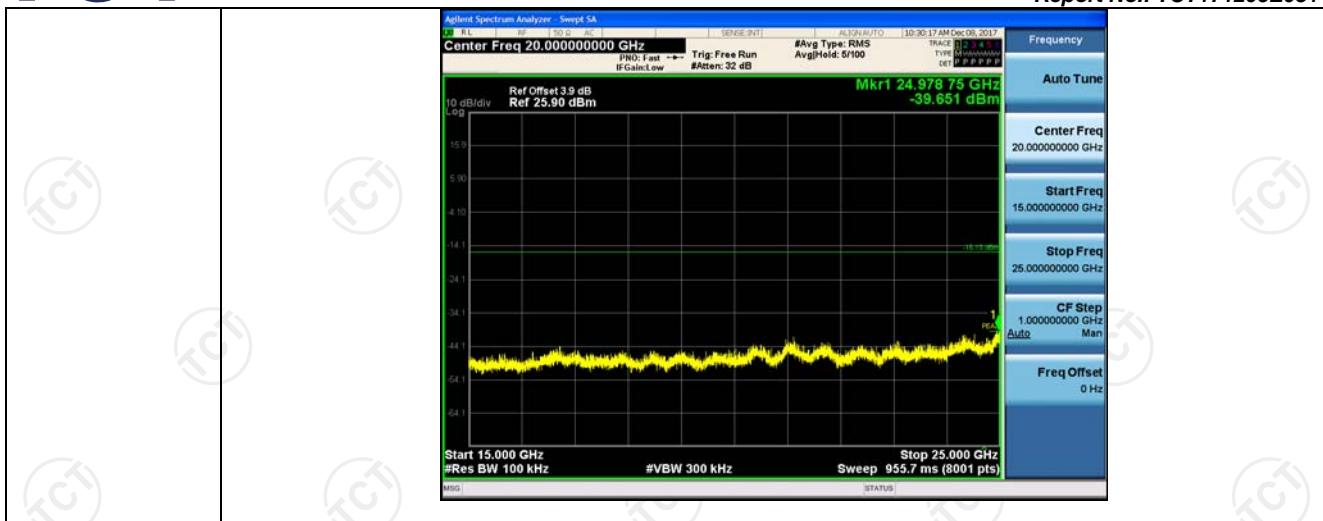










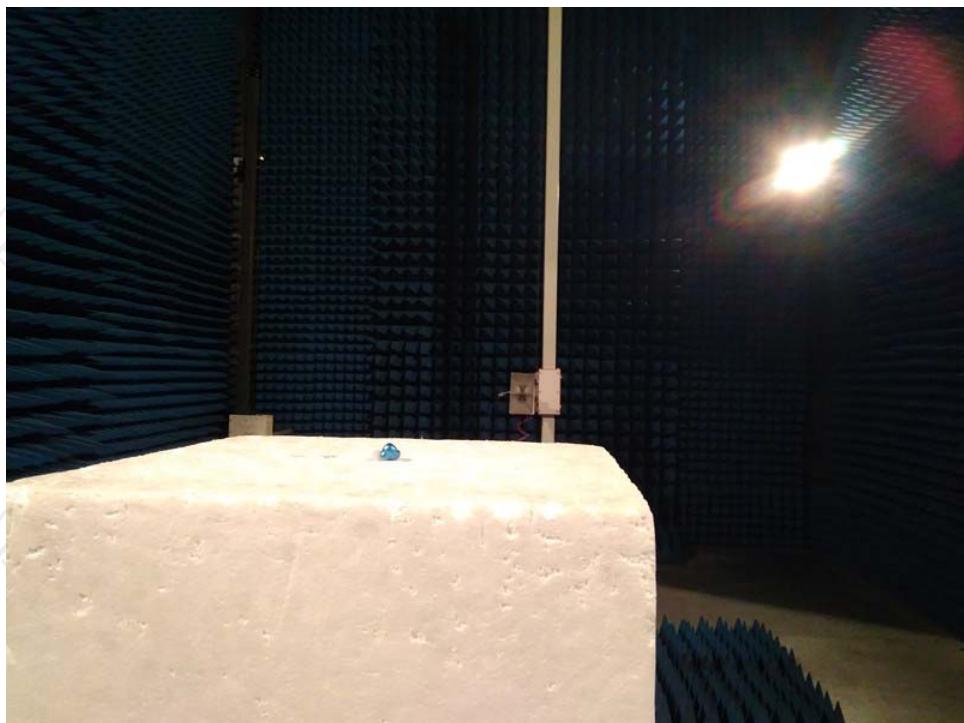
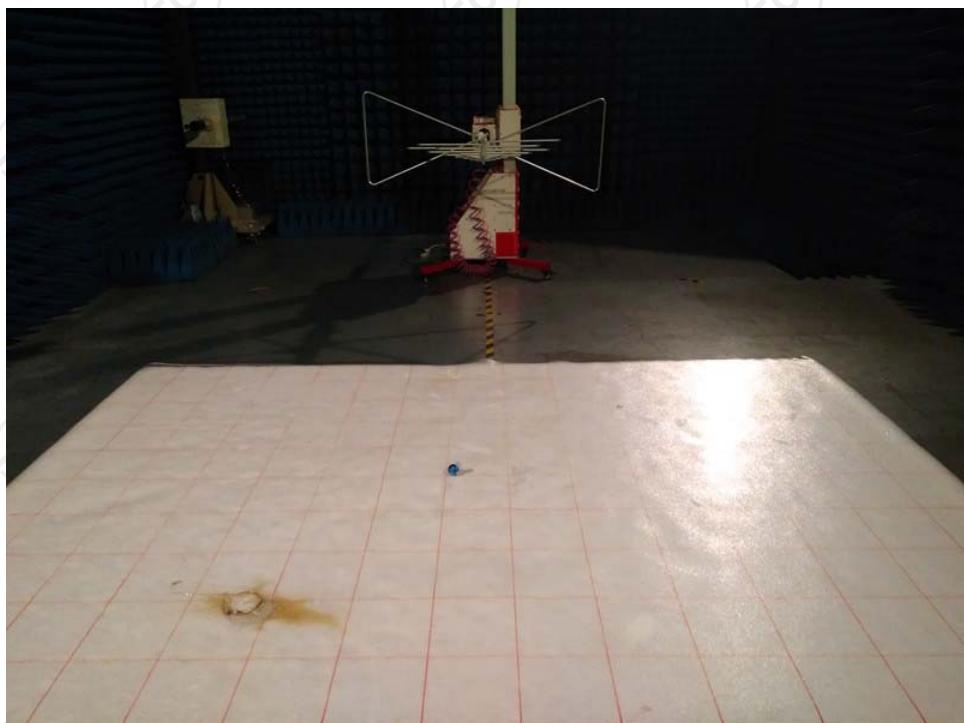


Appendix B: Photographs of Test Setup

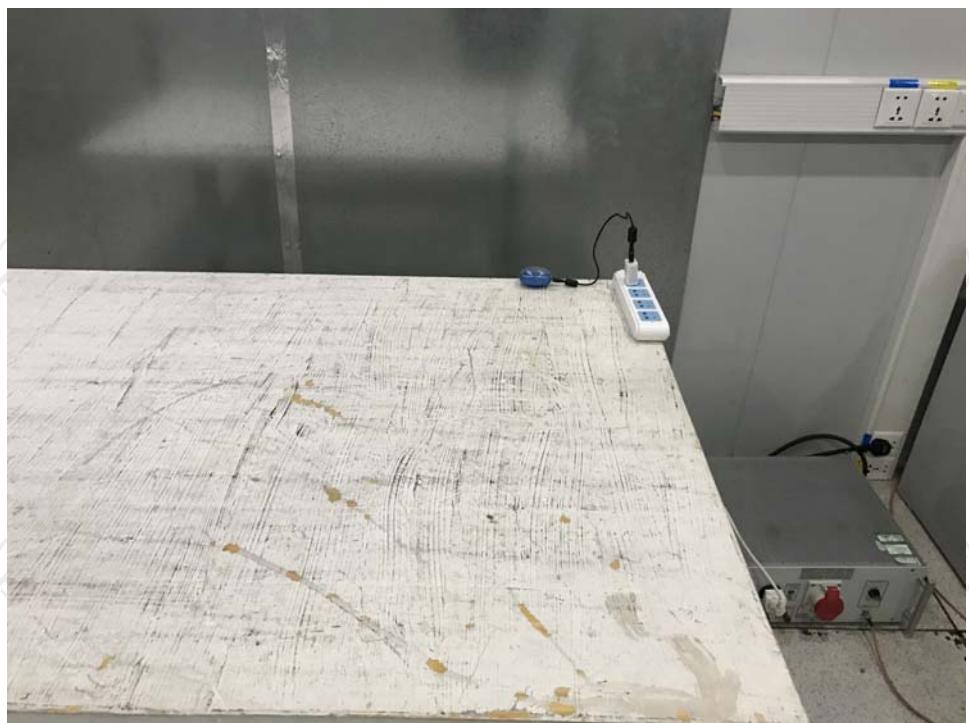
Product: TWS-Bluetooth earbuds

Model: i8s

Radiated Emission



CE

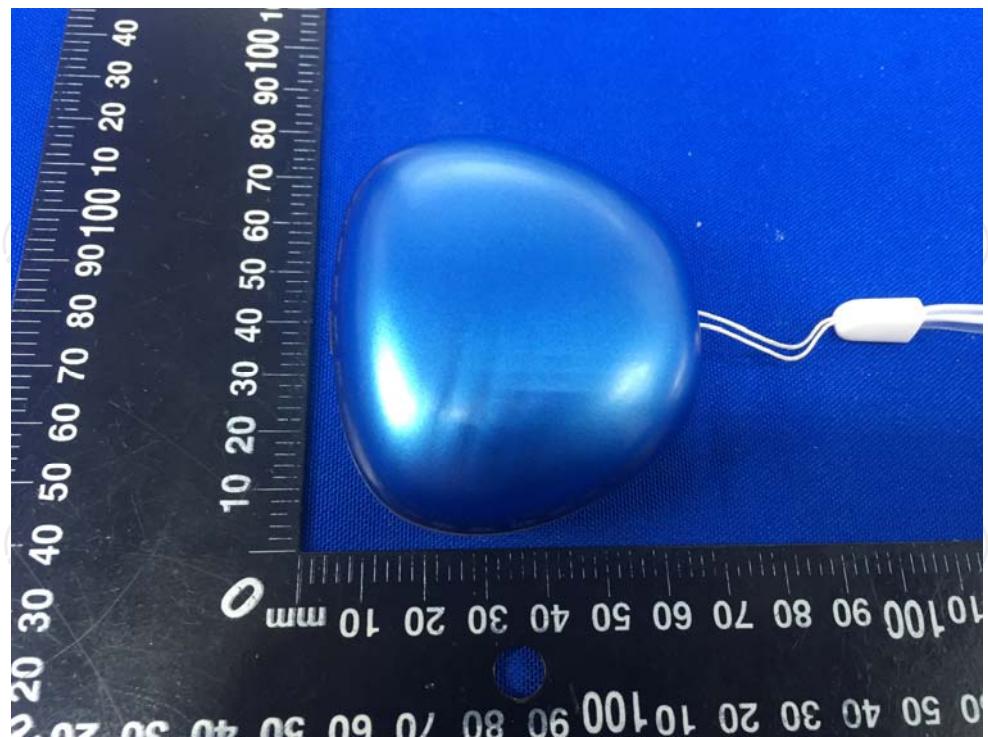


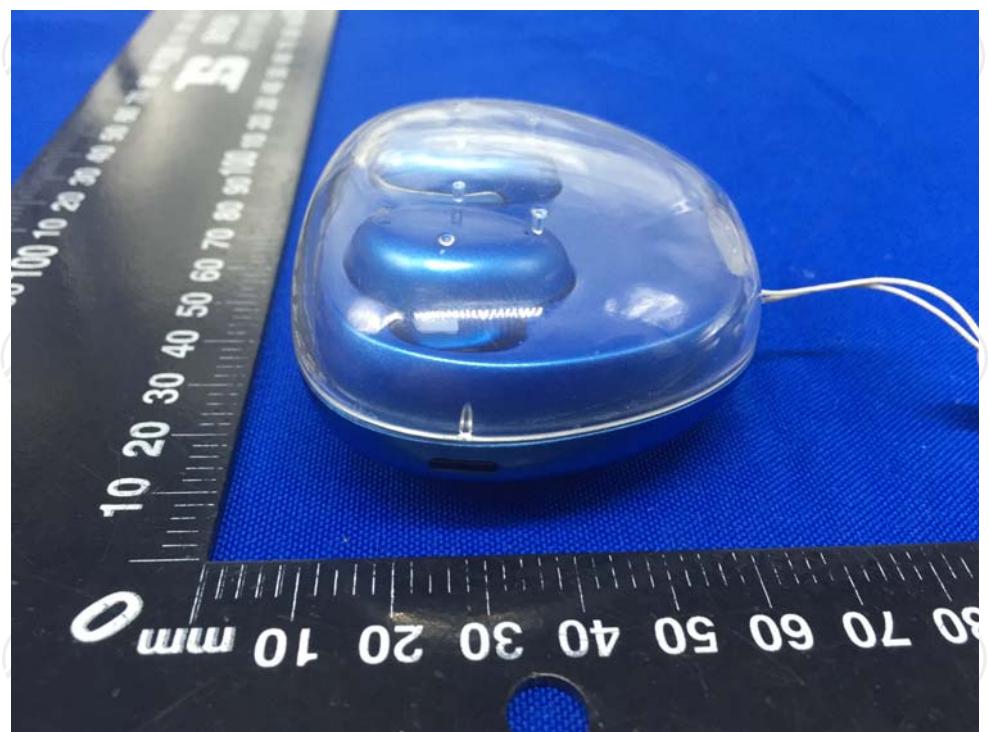
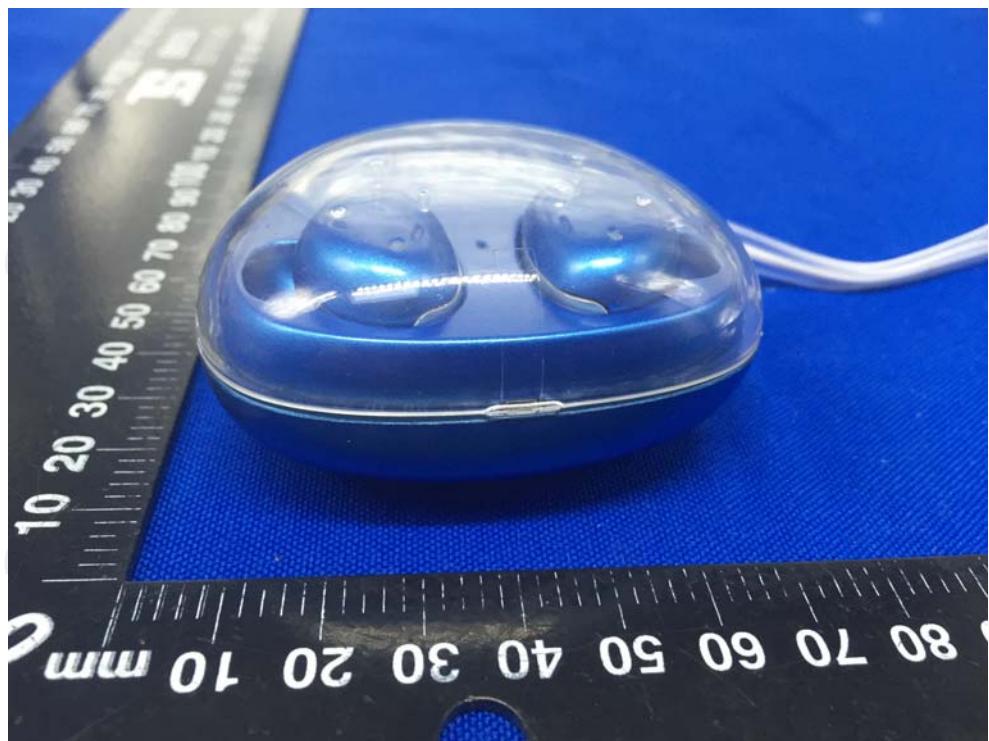
Appendix C: Photographs of EUT

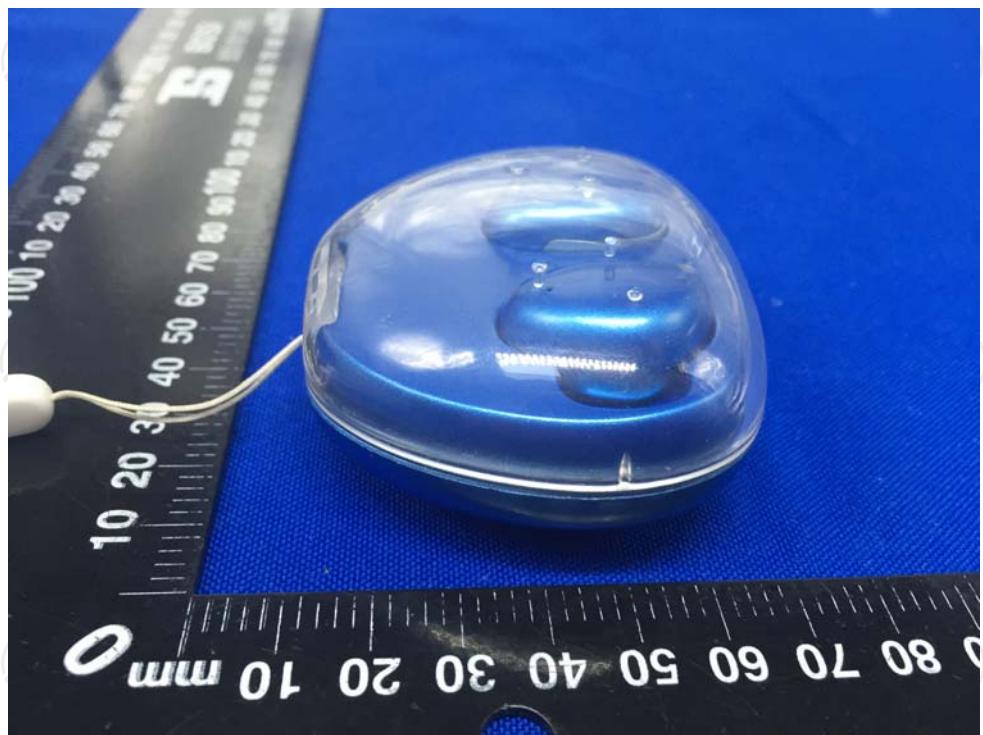
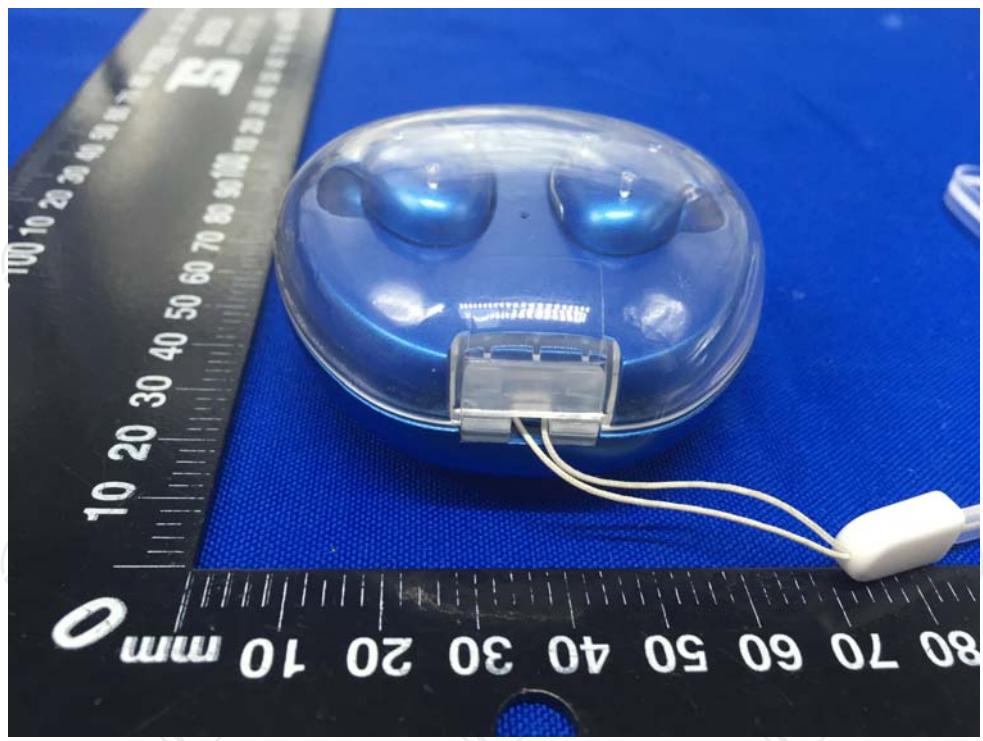
Product: TWS-Bluetooth earbuds

Model: i8s

External Photos



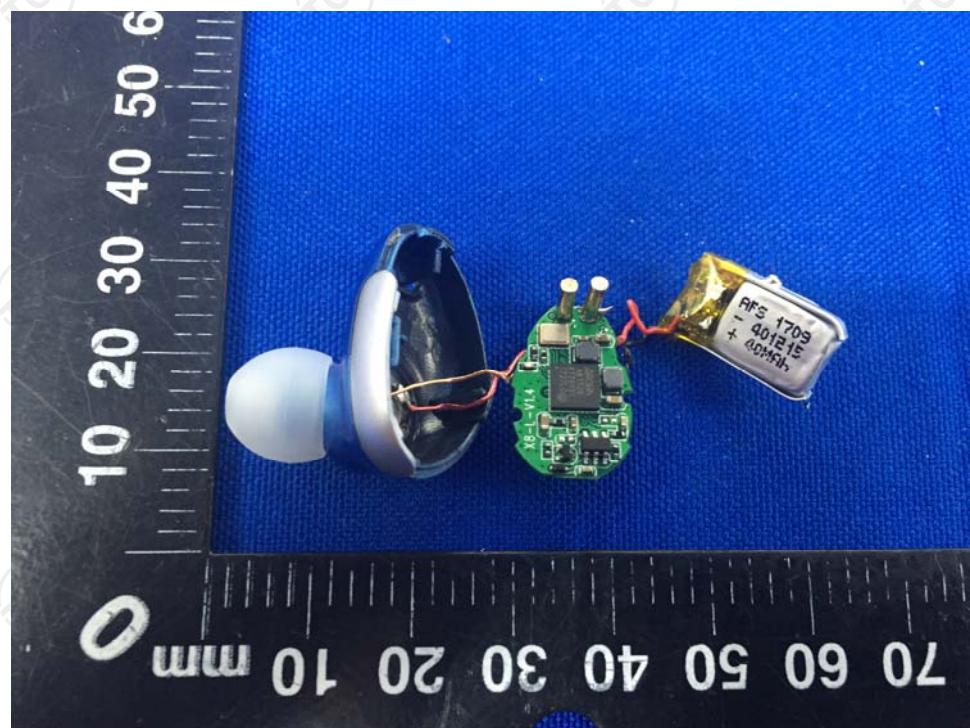


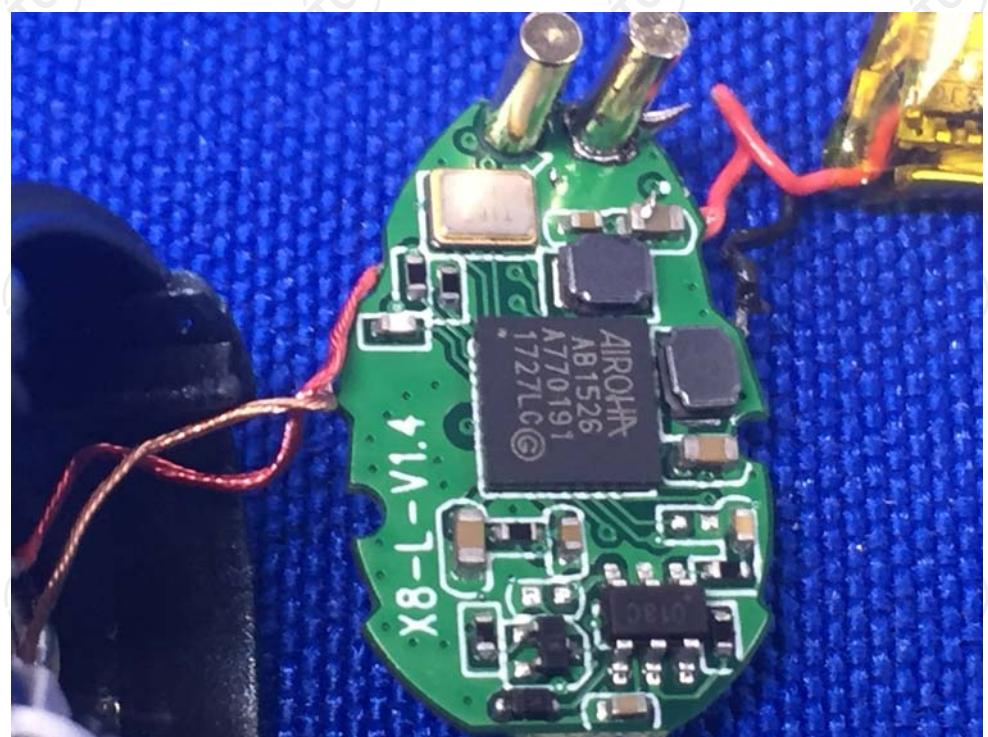
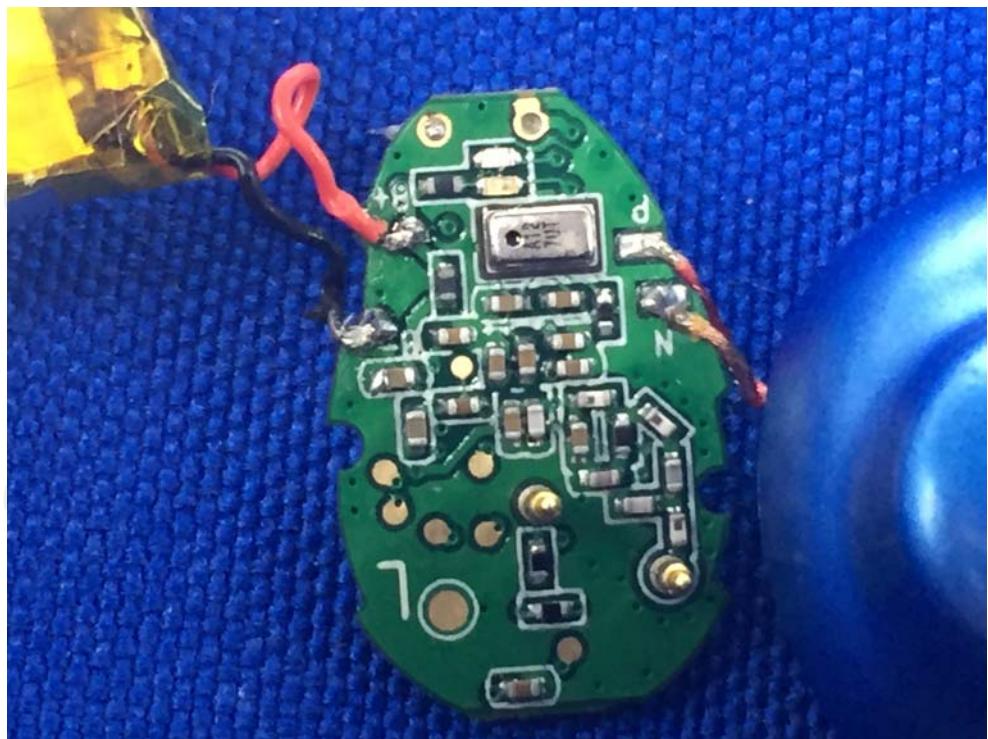


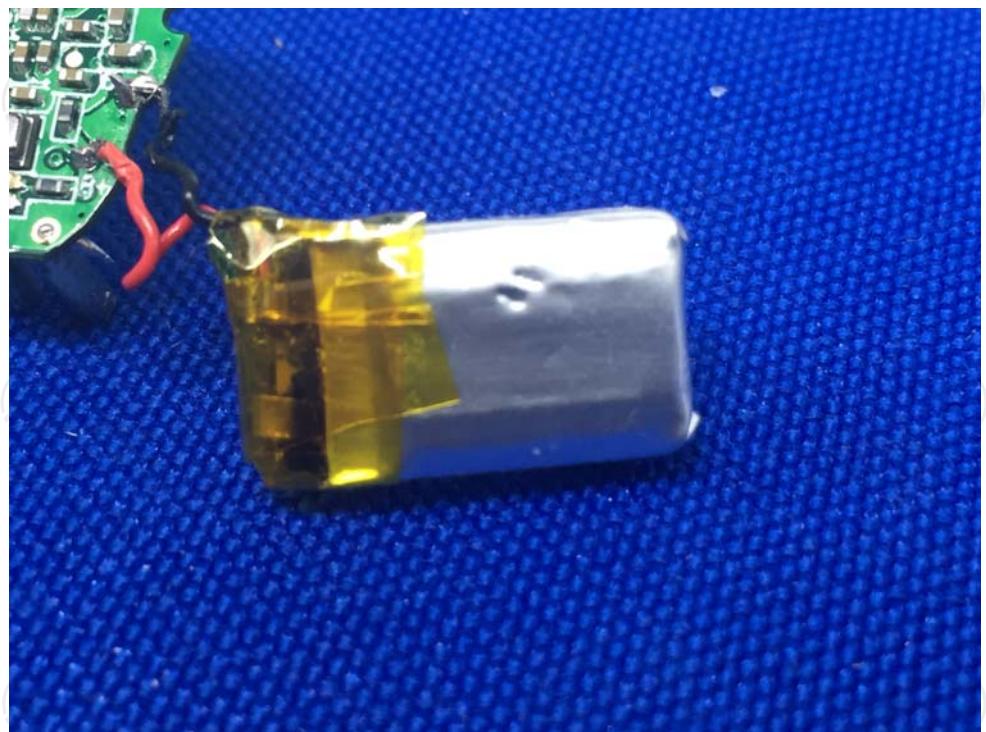
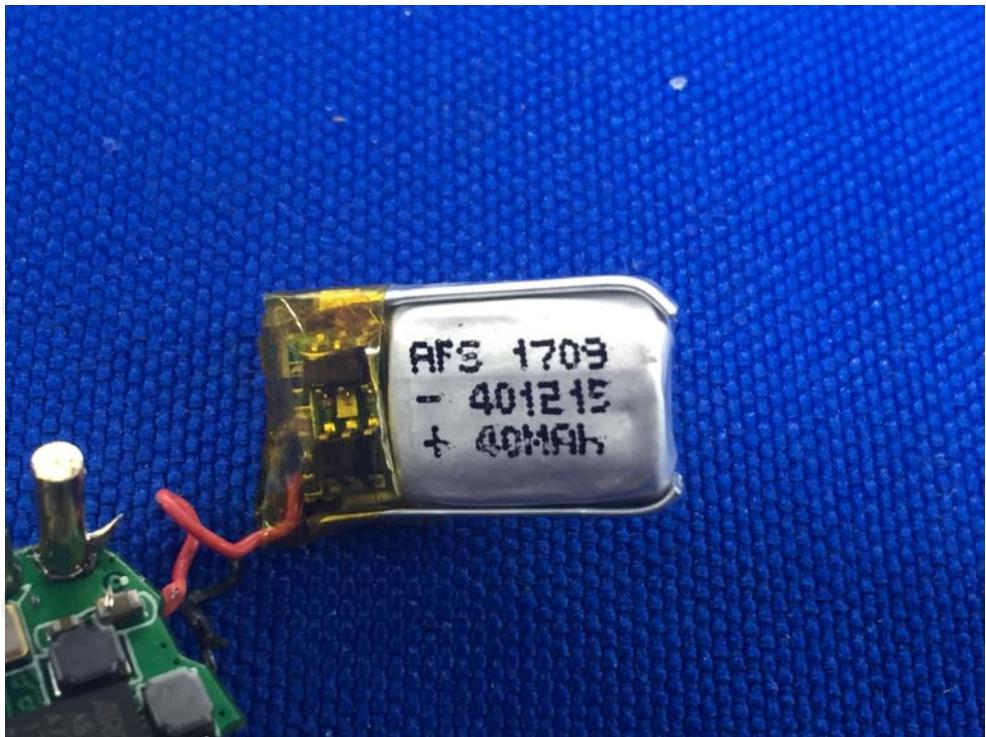




Product: TWS-Bluetooth earbuds
Model: i8s
Internal Photos







*******END OF REPORT*******