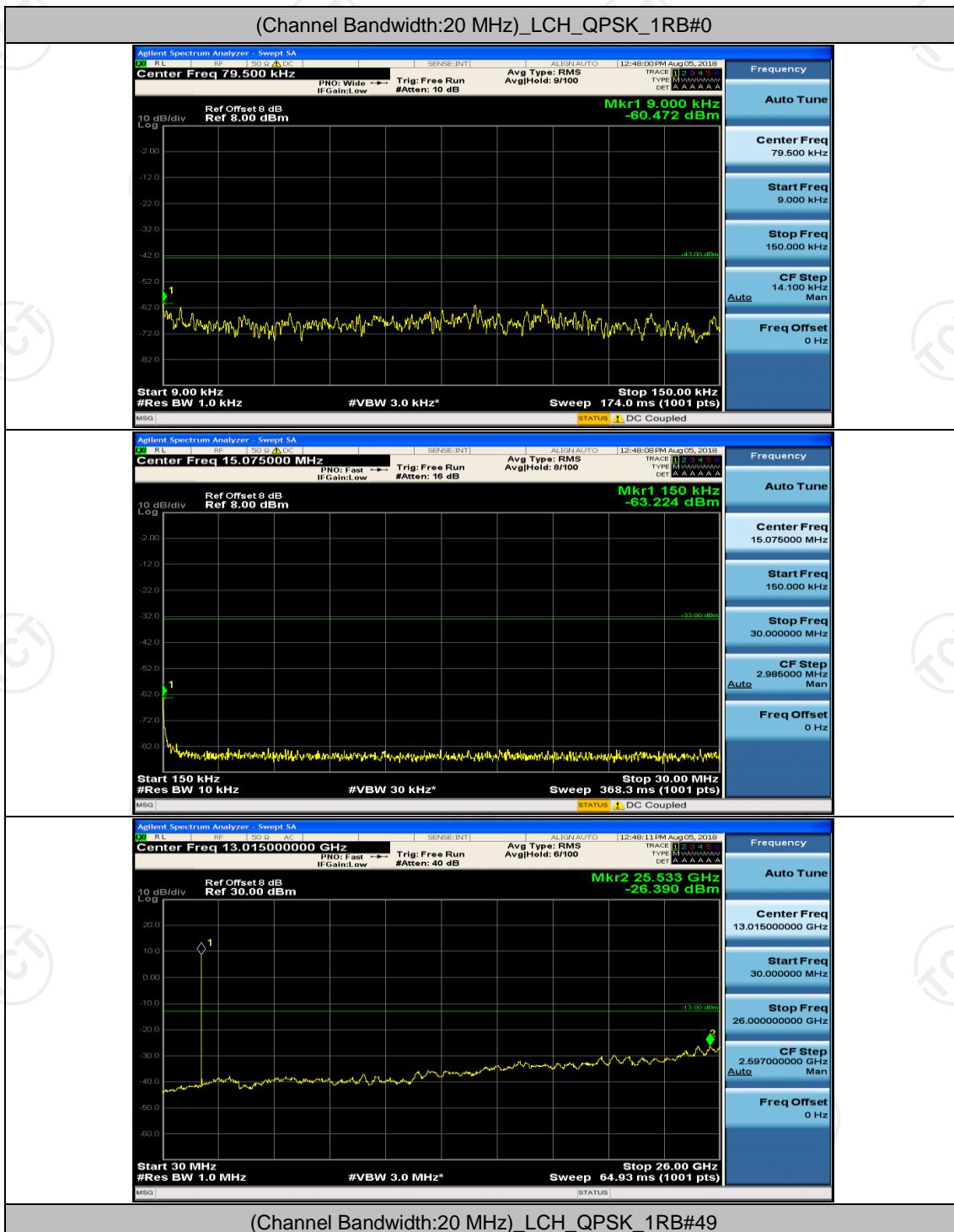
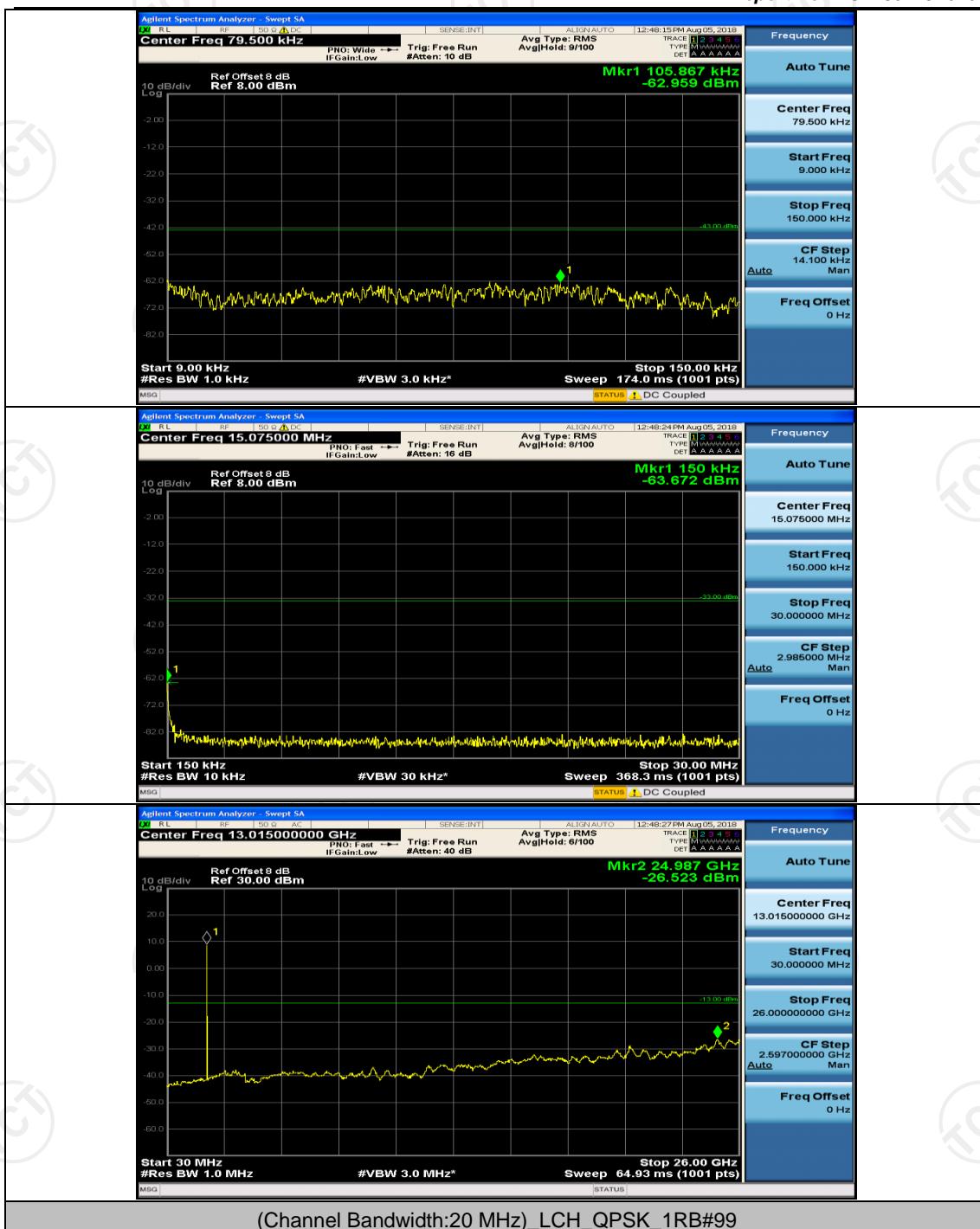
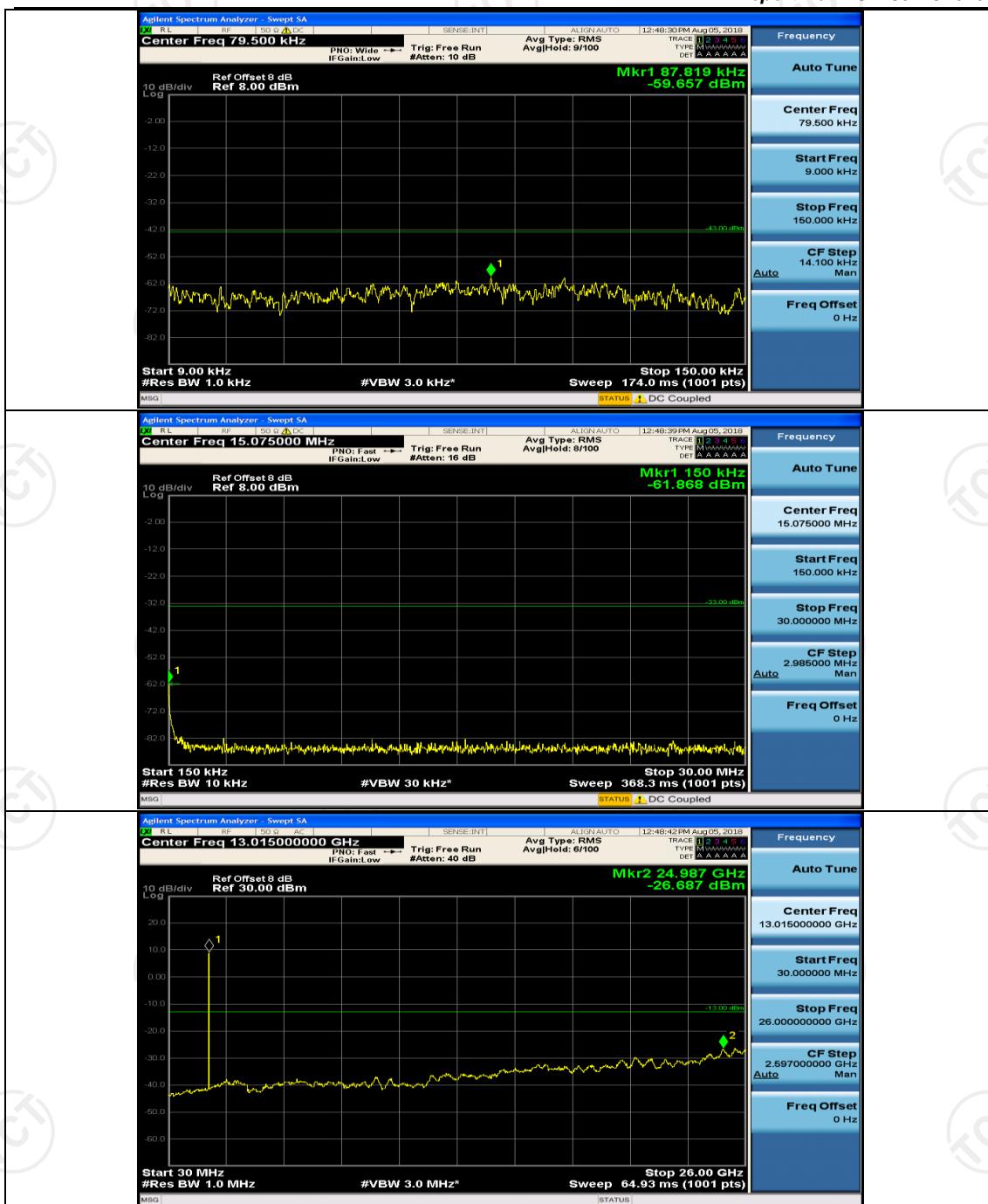
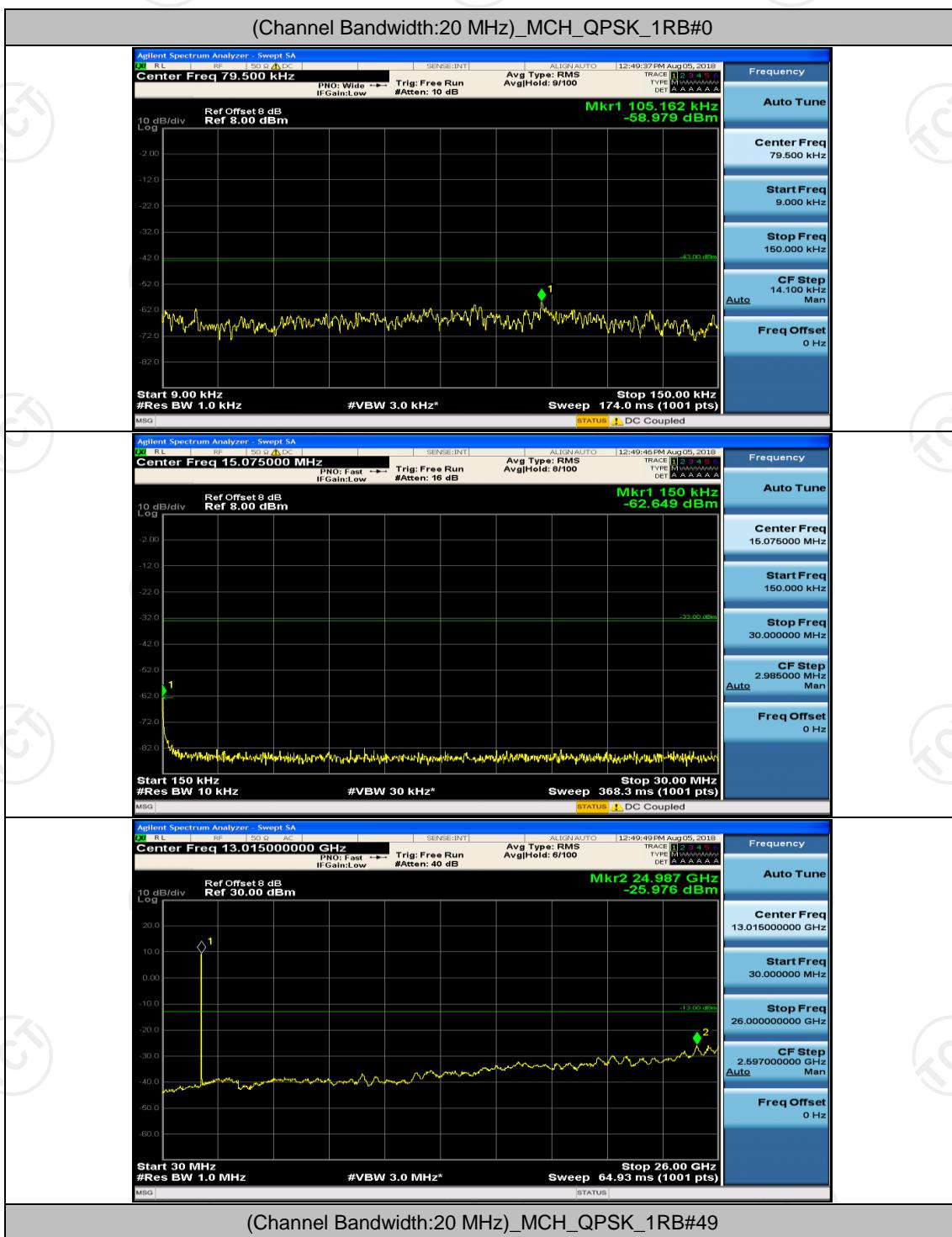


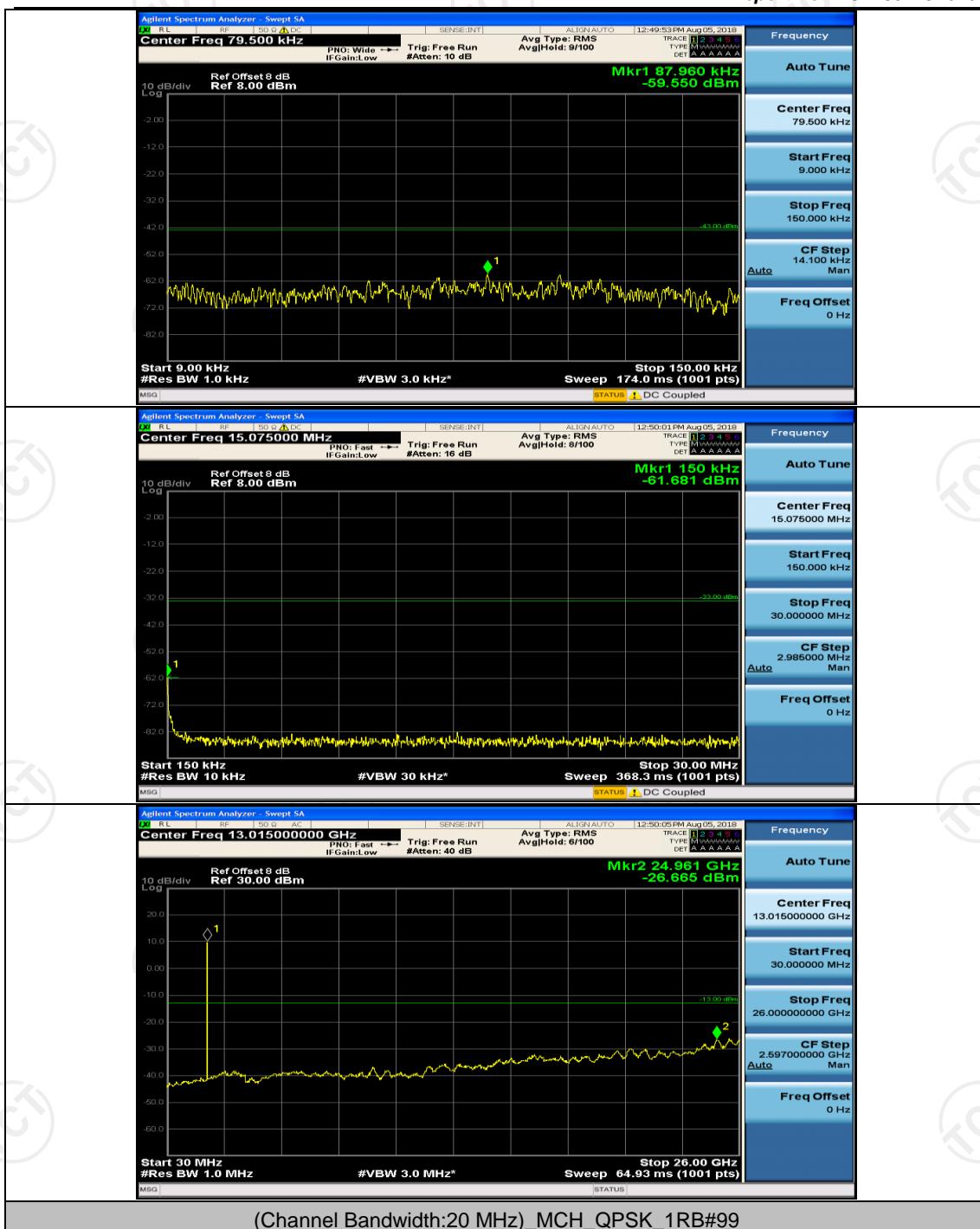
Channel Bandwidth: 20 MHz

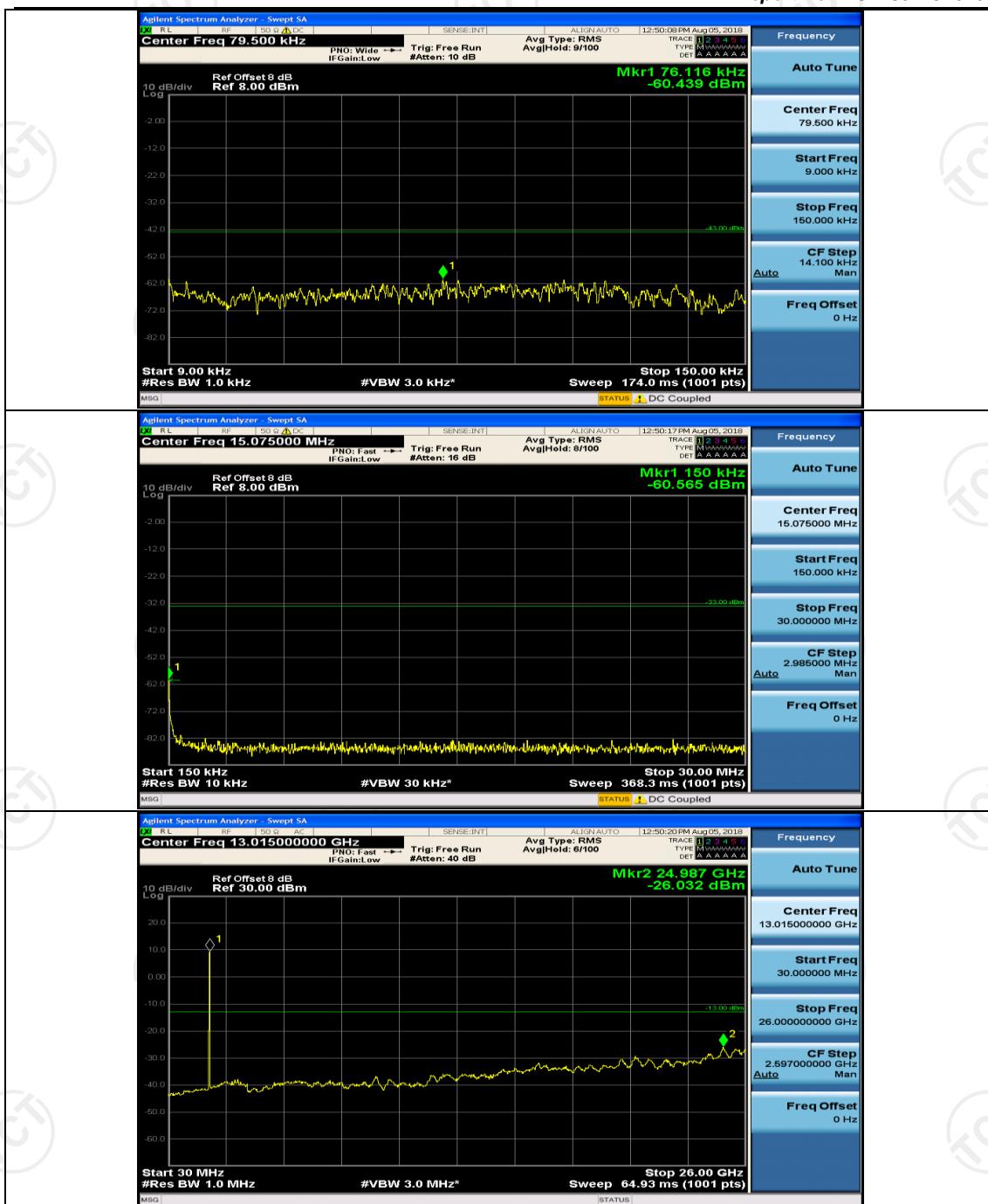


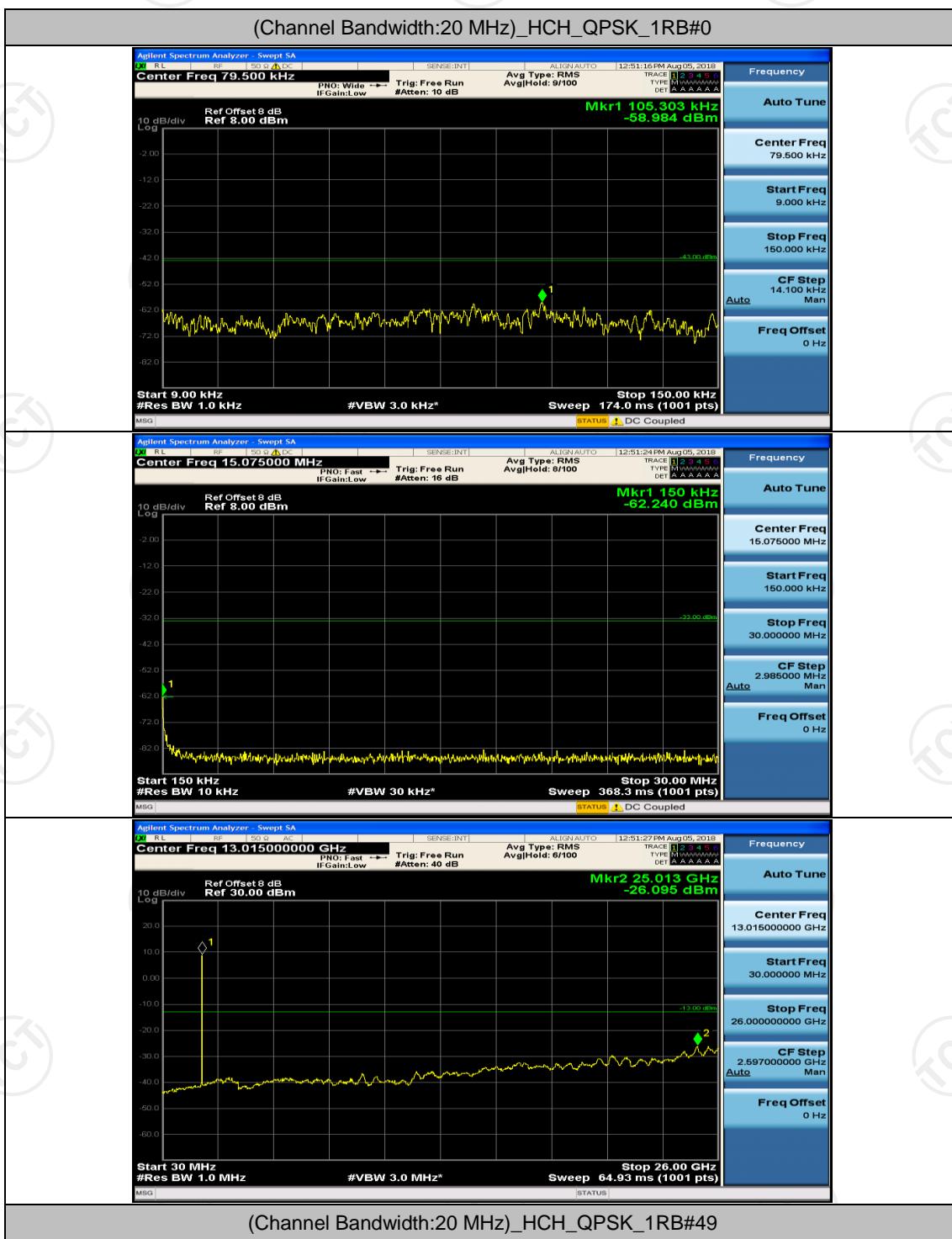


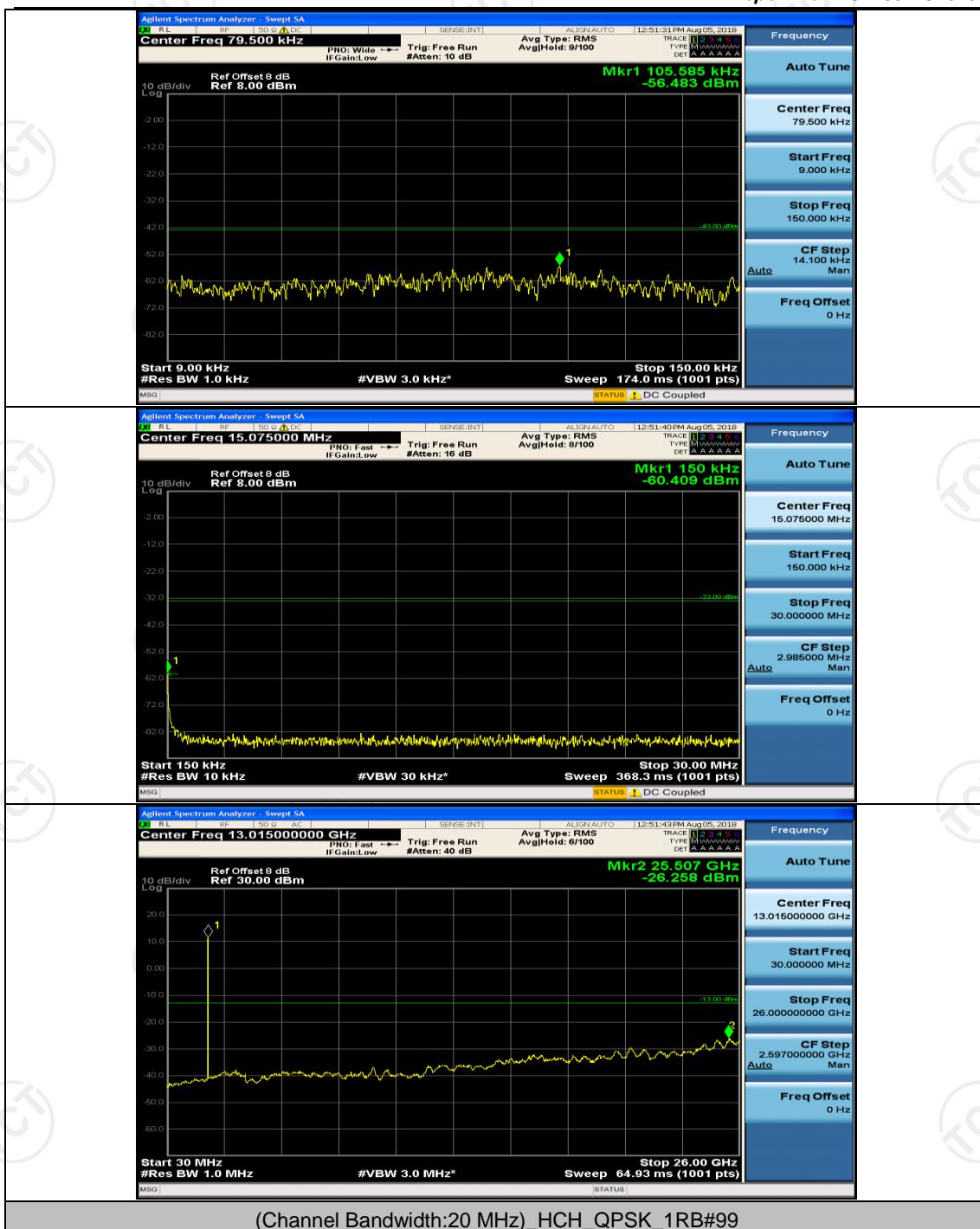


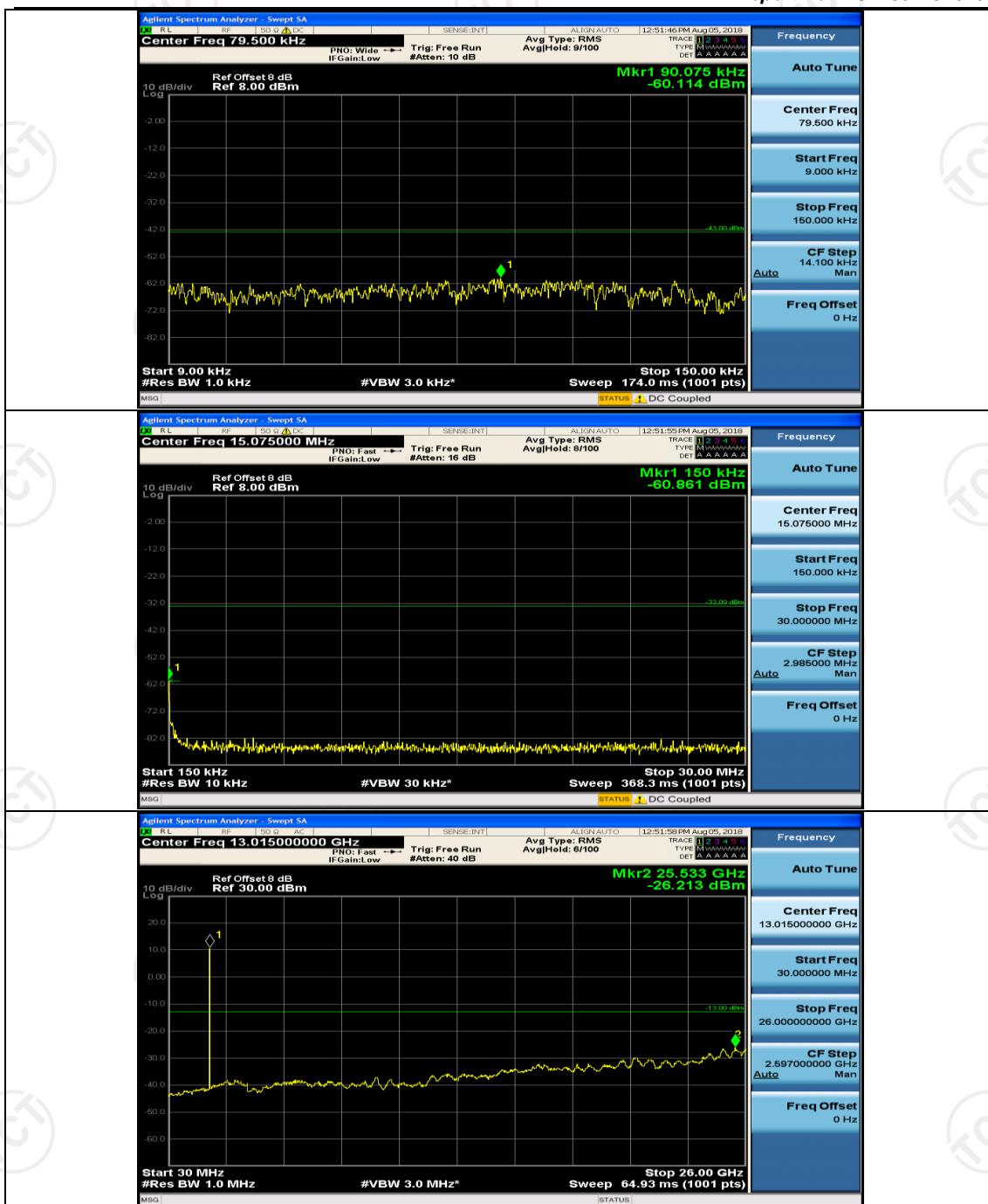


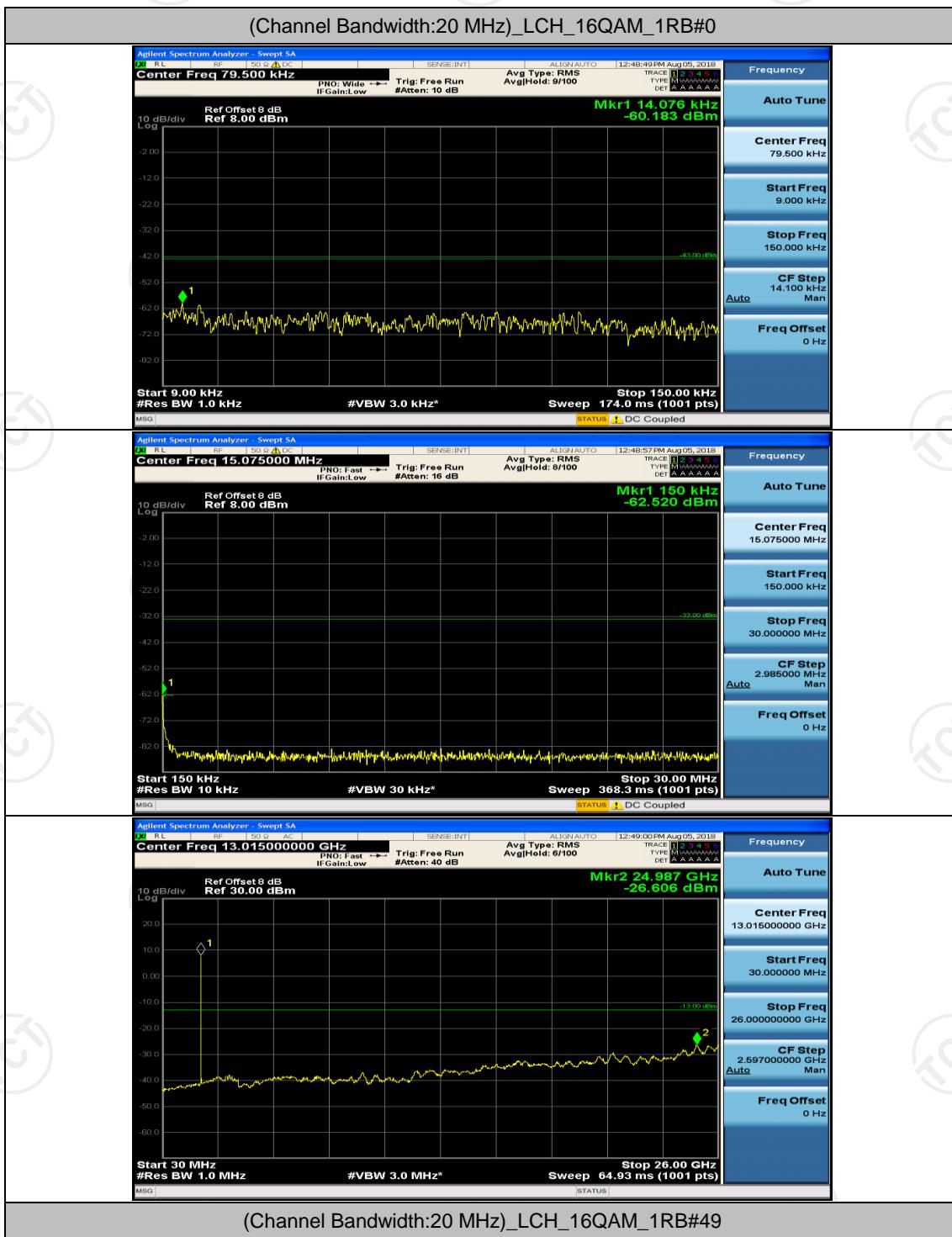


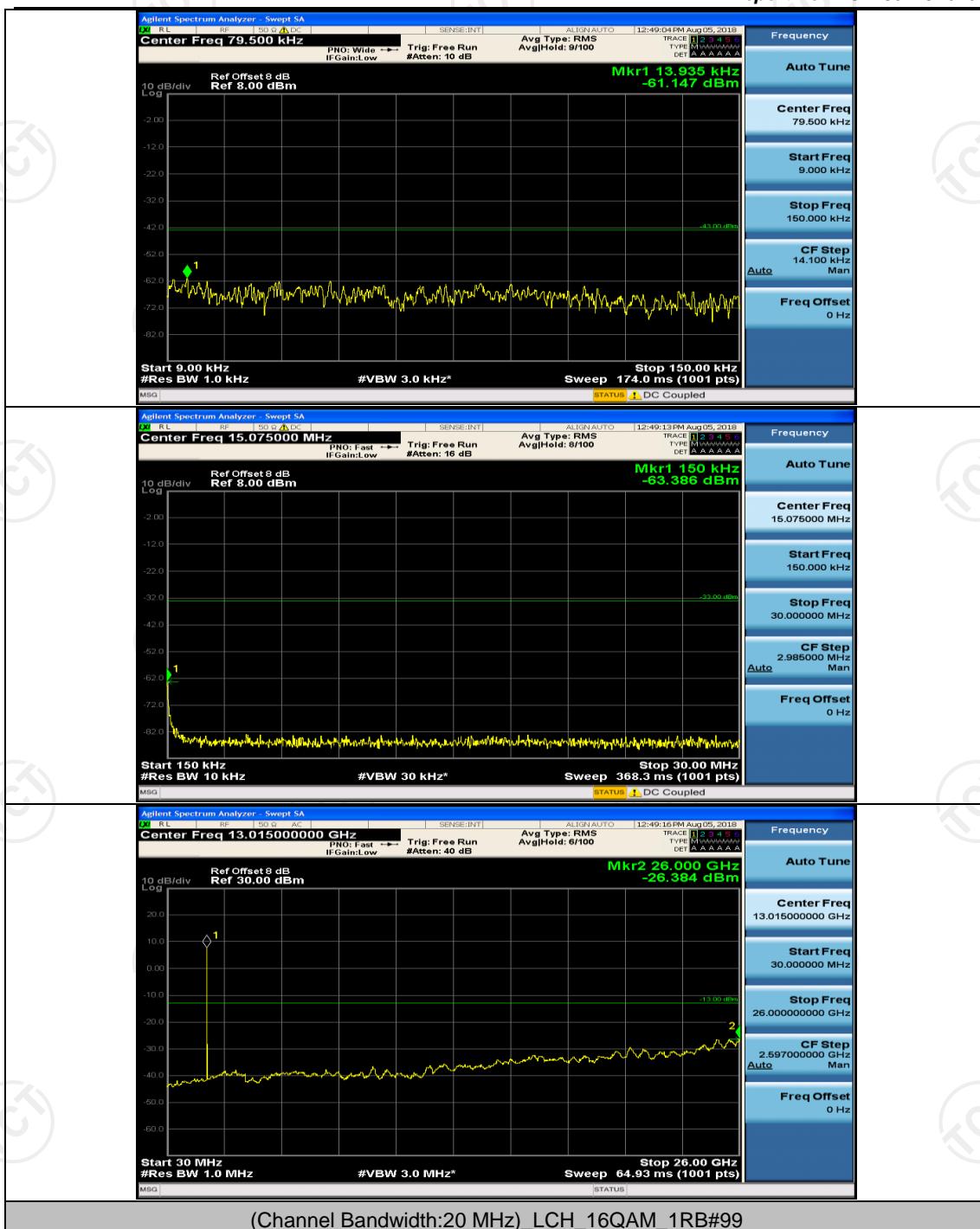




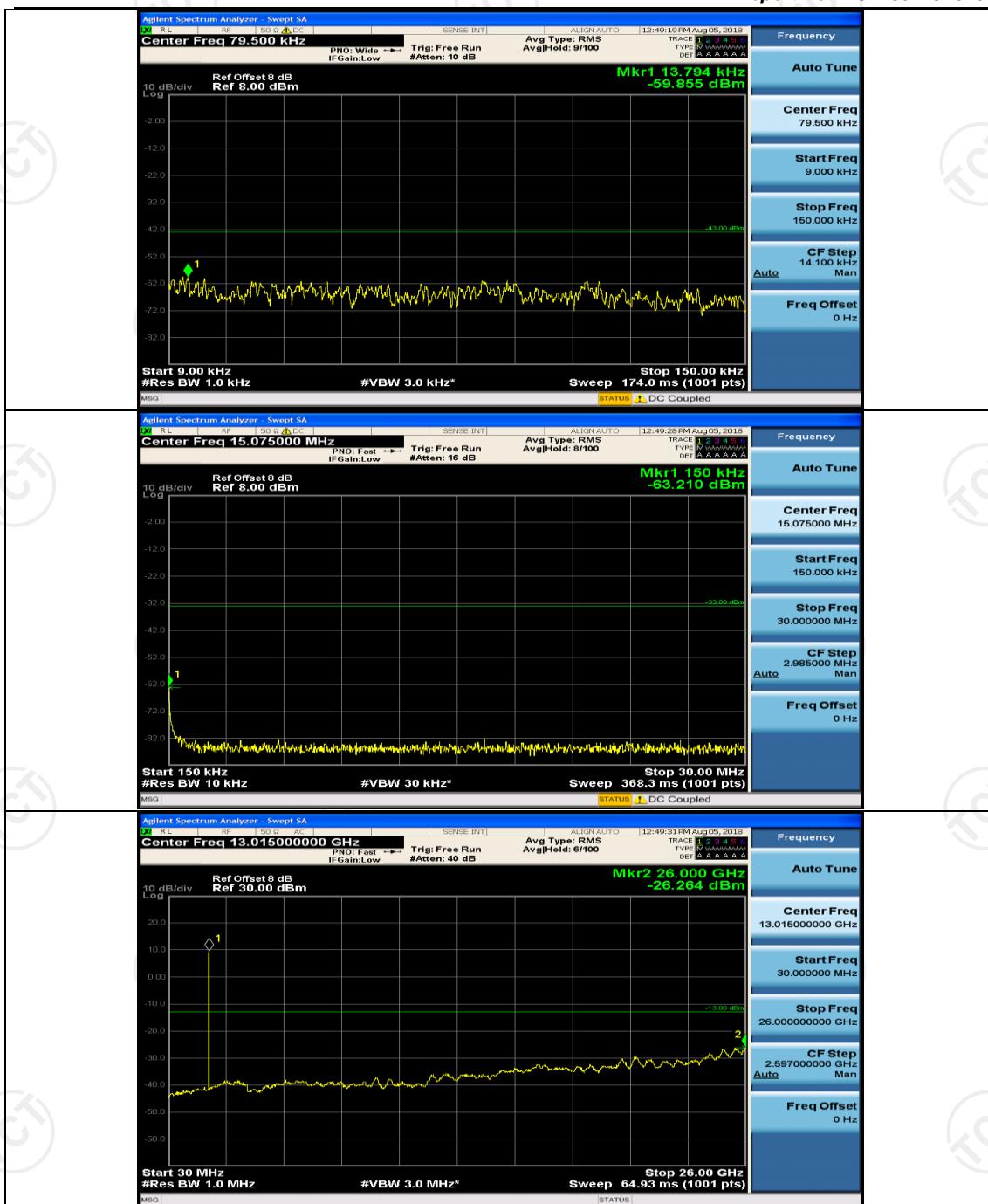


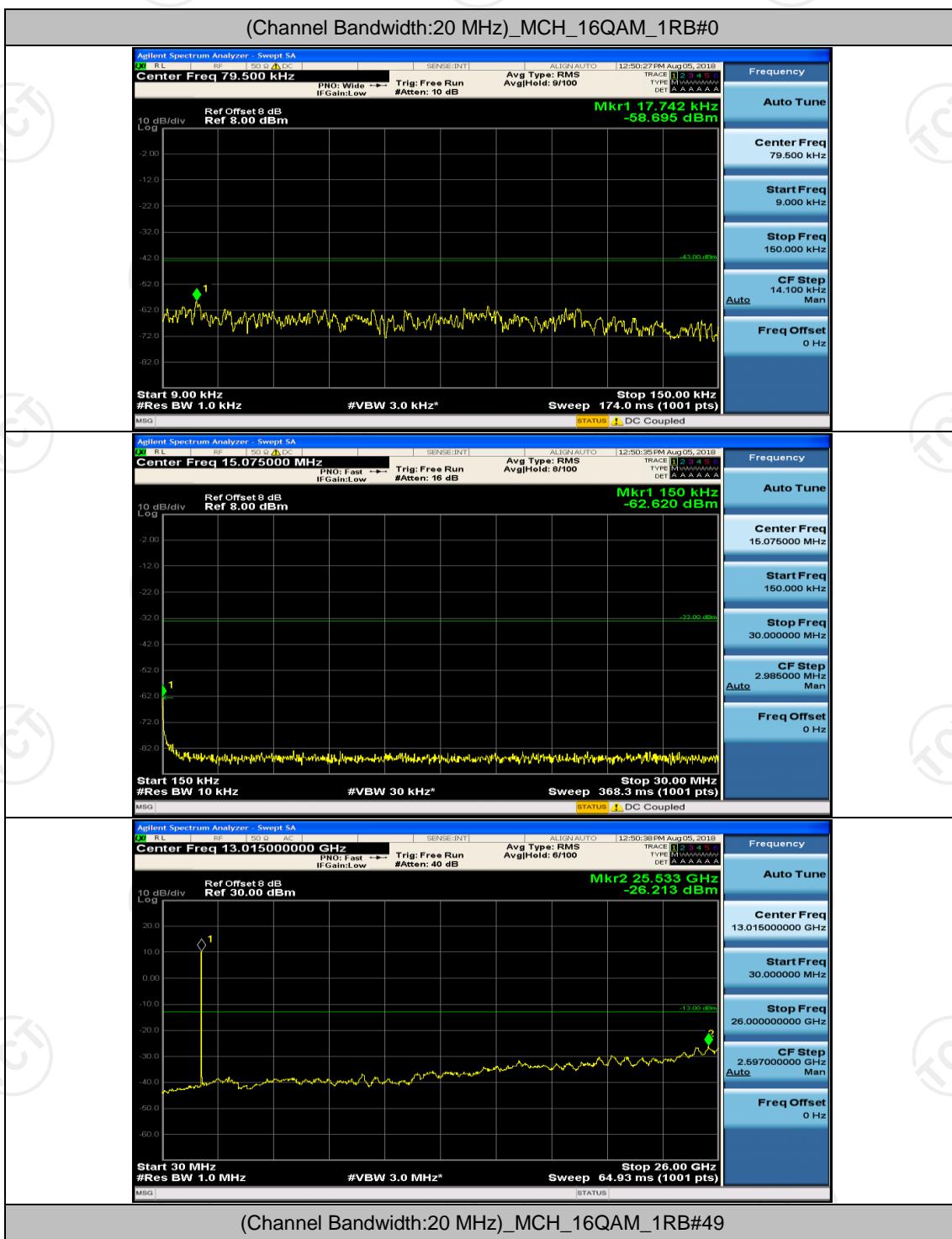


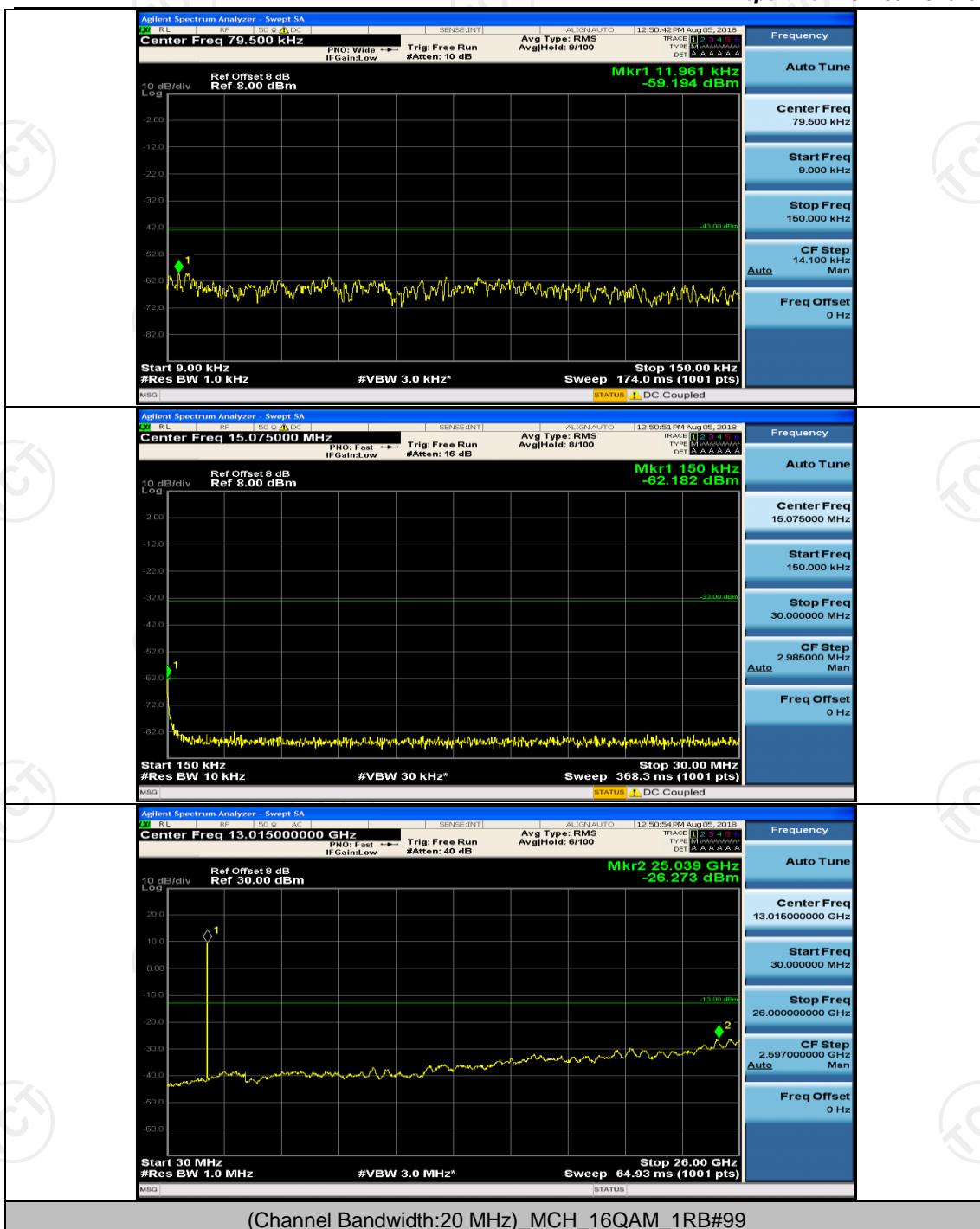


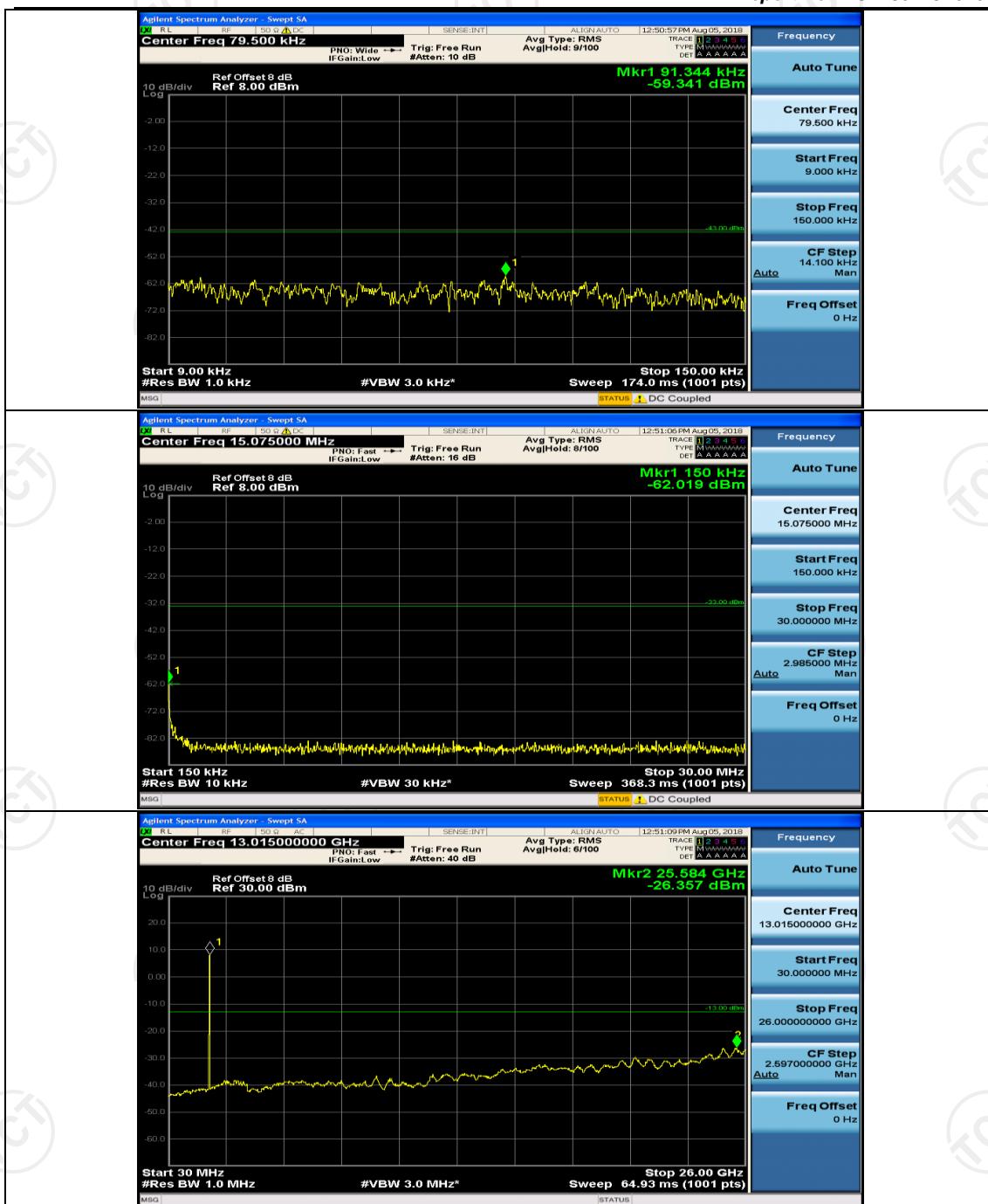


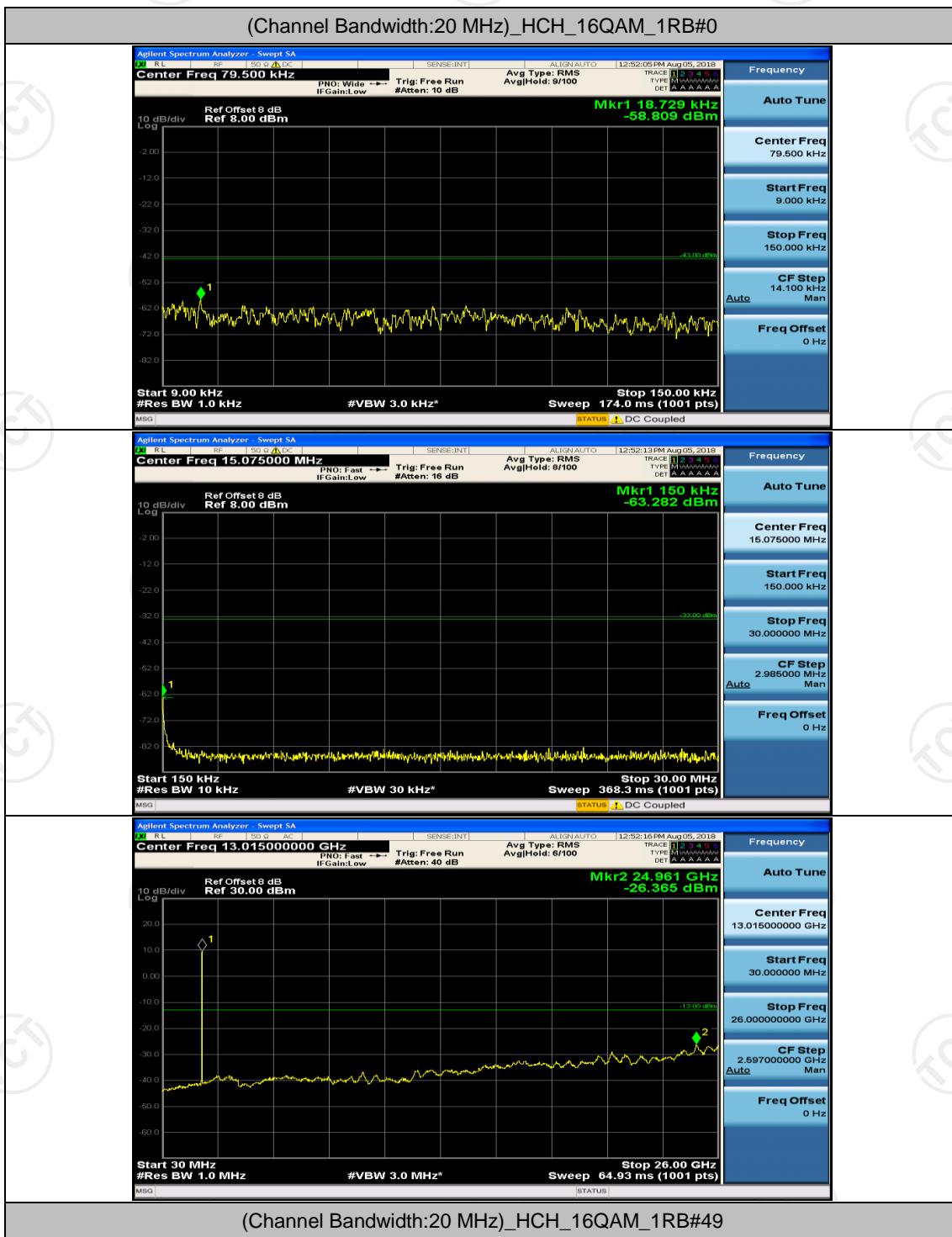
(Channel Bandwidth:20 MHz)_LCH_16QAM_1RB#99

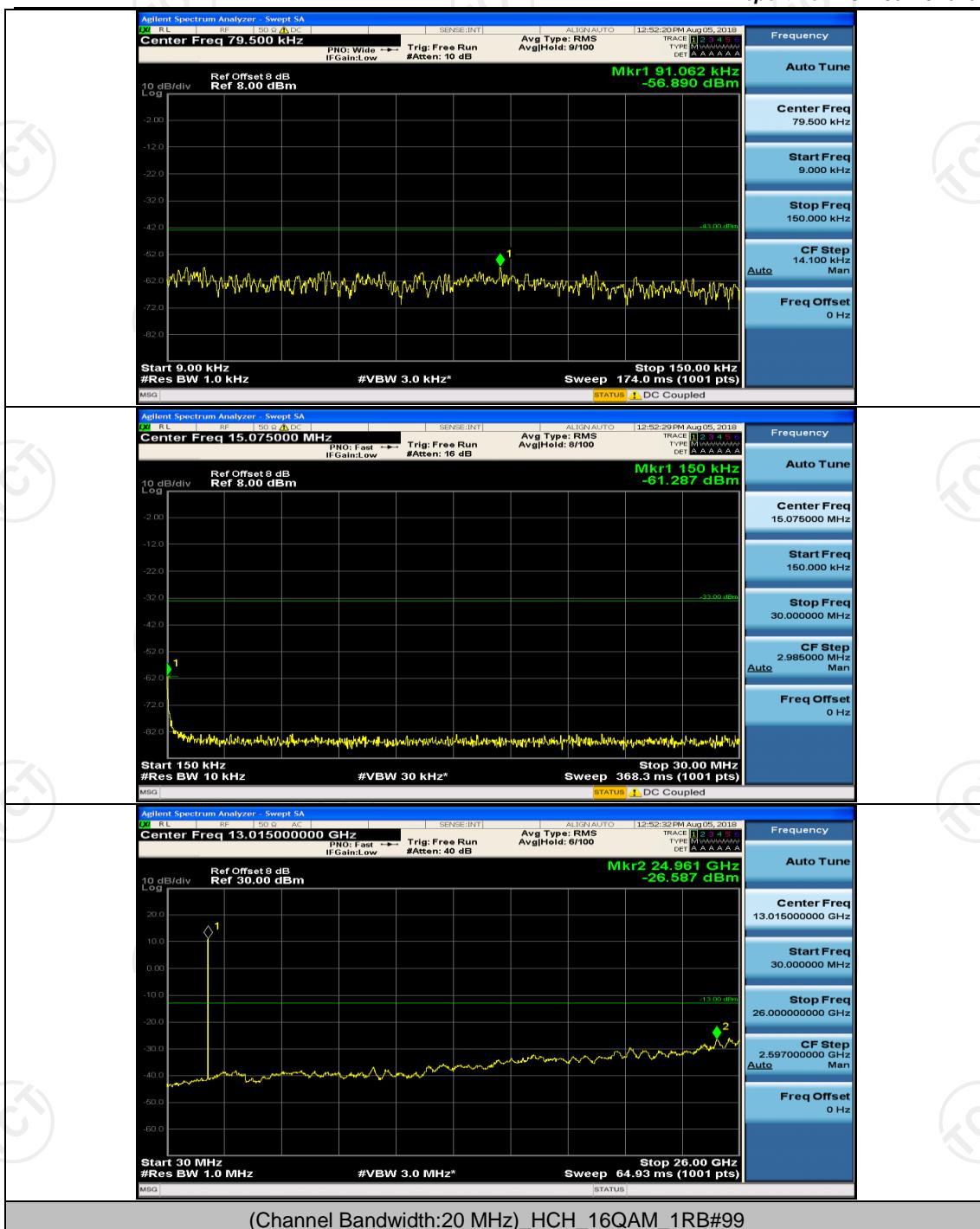


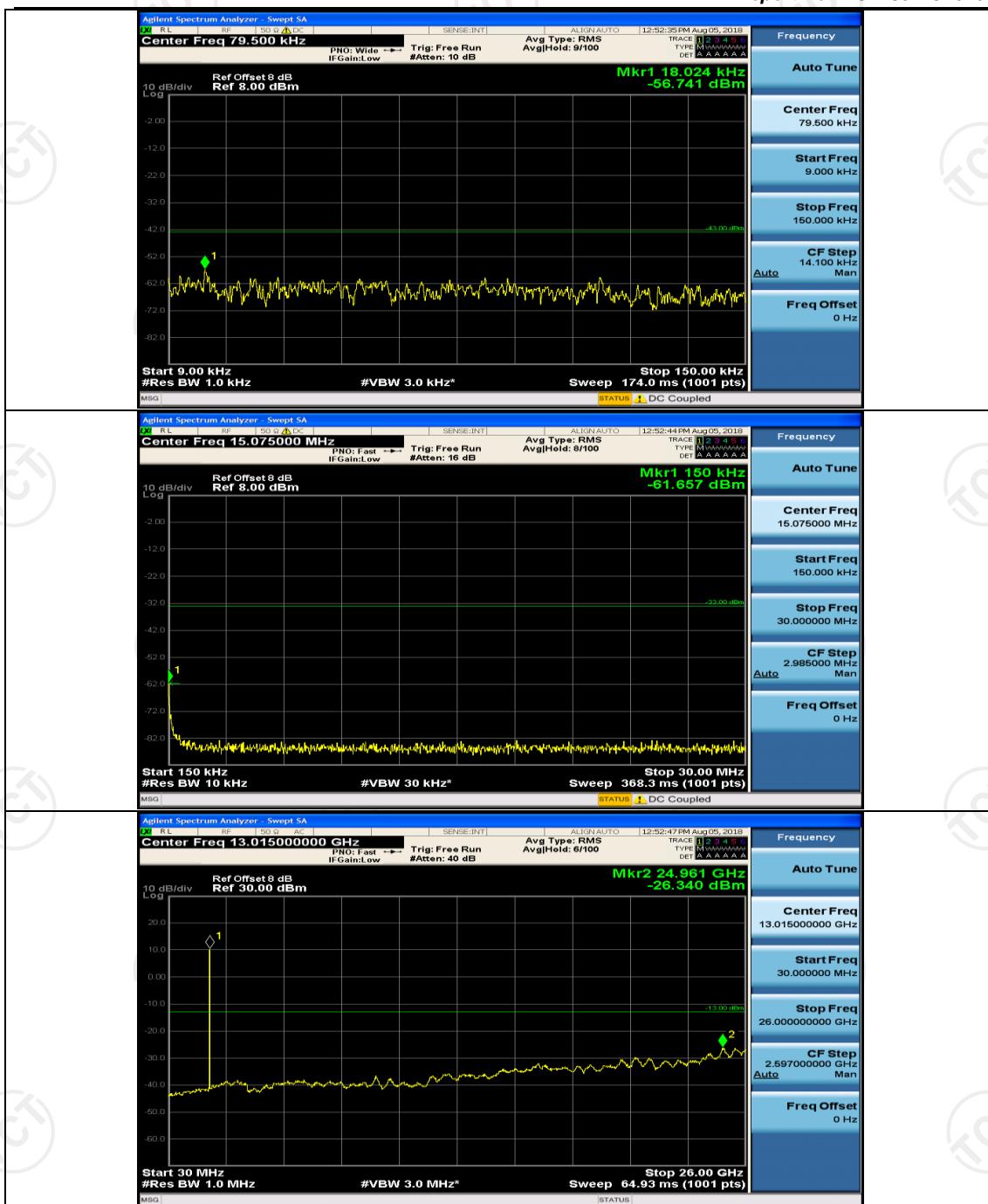












Appendix F: Frequency Stability

Test Result

Channel Bandwidth: 1.4 MHz

Channel Bandwidth: 1.4 MHz						
Voltage						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.3	25	-0.000827	± 2.5	PASS
		3.7	25	-0.001082	± 2.5	PASS
		4.2	25	-0.000788	± 2.5	PASS
	MCH	3.3	25	-0.000928	± 2.5	PASS
		3.7	25	-0.001735	± 2.5	PASS
		4.2	25	-0.001704	± 2.5	PASS
	HCH	3.3	25	0.000420	± 2.5	PASS
		3.7	25	0.000315	± 2.5	PASS
		4.2	25	0.000390	± 2.5	PASS
16QAM	LCH	3.3	25	-0.001136	± 2.5	PASS
		3.7	25	-0.000394	± 2.5	PASS
		4.2	25	-0.000108	± 2.5	PASS
	MCH	3.3	25	-0.001362	± 2.5	PASS
		3.7	25	-0.001385	± 2.5	PASS
		4.2	25	-0.000723	± 2.5	PASS
	HCH	3.3	25	0.001117	± 2.5	PASS
		3.7	25	0.000487	± 2.5	PASS
		4.2	25	0.000742	± 2.5	PASS
Temperature						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.7	-30	-0.000858	± 2.5	PASS
		3.7	-20	-0.001198	± 2.5	PASS
		3.7	-10	-0.000865	± 2.5	PASS
		3.7	0	-0.000533	± 2.5	PASS
		3.7	10	-0.001027	± 2.5	PASS
		3.7	20	-0.000750	± 2.5	PASS
		3.7	30	-0.001129	± 2.5	PASS
		3.7	40	-0.000672	± 2.5	PASS
		3.7	50	-0.000649	± 2.5	PASS
	MCH	3.7	-30	-0.000928	± 2.5	PASS
		3.7	-20	-0.001583	± 2.5	PASS
		3.7	-10	-0.001948	± 2.5	PASS
		3.7	0	-0.001598	± 2.5	PASS
		3.7	10	-0.001590	± 2.5	PASS
		3.7	20	-0.001682	± 2.5	PASS
		3.7	30	-0.002404	± 2.5	PASS

	HCH	3.7	40	-0.002351	± 2.5	PASS
		3.7	50	-0.001925	± 2.5	PASS
		3.7	-30	0.000989	± 2.5	PASS
		3.7	-20	0.000330	± 2.5	PASS
		3.7	-10	0.000547	± 2.5	PASS
		3.7	0	0.001267	± 2.5	PASS
		3.7	10	0.000600	± 2.5	PASS
		3.7	20	0.000524	± 2.5	PASS
		3.7	30	0.000000	± 2.5	PASS
		3.7	40	-0.000075	± 2.5	PASS
		3.7	50	-0.000022	± 2.5	PASS
16QAM	LCH	3.7	-30	-0.001128	± 2.5	PASS
		3.7	-20	-0.000796	± 2.5	PASS
		3.7	-10	-0.001259	± 2.5	PASS
		3.7	0	-0.000788	± 2.5	PASS
		3.7	10	-0.001058	± 2.5	PASS
		3.7	20	-0.000294	± 2.5	PASS
		3.7	30	-0.001329	± 2.5	PASS
		3.7	40	-0.001507	± 2.5	PASS
		3.7	50	-0.000858	± 2.5	PASS
	MCH	3.7	-30	-0.000708	± 2.5	PASS
		3.7	-20	-0.001309	± 2.5	PASS
		3.7	-10	-0.001697	± 2.5	PASS
		3.7	0	-0.001636	± 2.5	PASS
		3.7	10	-0.000692	± 2.5	PASS
		3.7	20	-0.001727	± 2.5	PASS
		3.7	30	-0.002070	± 2.5	PASS
		3.7	40	-0.001682	± 2.5	PASS
		3.7	50	-0.001134	± 2.5	PASS
	HCH	3.7	-30	0.001162	± 2.5	PASS
		3.7	-20	0.000555	± 2.5	PASS
		3.7	-10	0.000345	± 2.5	PASS
		3.7	0	0.000959	± 2.5	PASS
		3.7	10	-0.000692	± 2.5	PASS
		3.7	20	0.000652	± 2.5	PASS
		3.7	30	-0.000352	± 2.5	PASS
		3.7	40	-0.000142	± 2.5	PASS
		3.7	50	-0.000097	± 2.5	PASS

Note: All bandwidth and modulation are tested, only the worst result is reported.

Appendix G :Field Strength of Spurious Radiation Measurement Test Result

Bandwidth:	1.4M		Test channel:	Lowest
Modulation:	QPSK		Temperature :	24~26°C
RB #:	1RB #0		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
3701.4	Polarization	Level (dBm)		
3701.4	Vertical	-35.75		
5552.1	V	-43.13		
-	V	-		
3701.4	Horizontal	-36.95		
5552.1	H	-47.21		
-	H	-		
Bandwidth:	1.4M		Test channel:	Middle
Modulation:	QPSK		Temperature :	23~24°C
RB #:	1RB #0		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
3760	Polarization	Level (dBm)		
3760	Vertical	-36.31		
5640	V	-47.02		
-	V	-		
3760	Horizontal	-35.39		
5640	H	-45.48		
-	H	-		
Bandwidth:	1.4M		Test channel:	Highest
Modulation:	QPSK		Temperature :	23~24°C
RB #:	1RB #0		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
3818.6	Polarization	Level (dBm)		
3818.6	Vertical	-35.55		
5727.9	V	-46.60		
-	V	-		
3818.6	Horizontal	-34.34		
5727.9	H	-45.72		
-	H	-		

Bandwidth:	1.4M		Test channel:	Lowest
Modulation:	16QAM		Temperature :	23~24°C
RB #:	1RB #0		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3701.4	Vertical	-35.65		
5552.1	V	-44.87		
-	V	-		
3701.4	Horizontal	-34.51	-13.00	PASS
5552.1	H	-43.93		
-	H	-		
Bandwidth:	1.4M		Test channel:	Middle
Modulation:	16QAM		Temperature :	23~24°C
RB #:	1RB #0		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3760	Vertical	-35.01		
5640	V	-42.25		
-	V	-		
3760	Horizontal	-34.47	-13.00	PASS
5640	H	-43.34		
-	H	-		
Bandwidth:	1.4M		Test channel:	Highest
Modulation:	16QAM		Temperature :	23~24°C
RB #:	1RB #0		Relative Humidity:	46~48%
Note:	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3818.6	Vertical	-34.38		
5727.9	V	-42.61		
-	V	-		
3818.6	Horizontal	-35.14	-13.00	PASS
5727.9	H	-44.55		
-	H	-		

Note: All bandwidth and modulation are tested, only the worst result is reported.