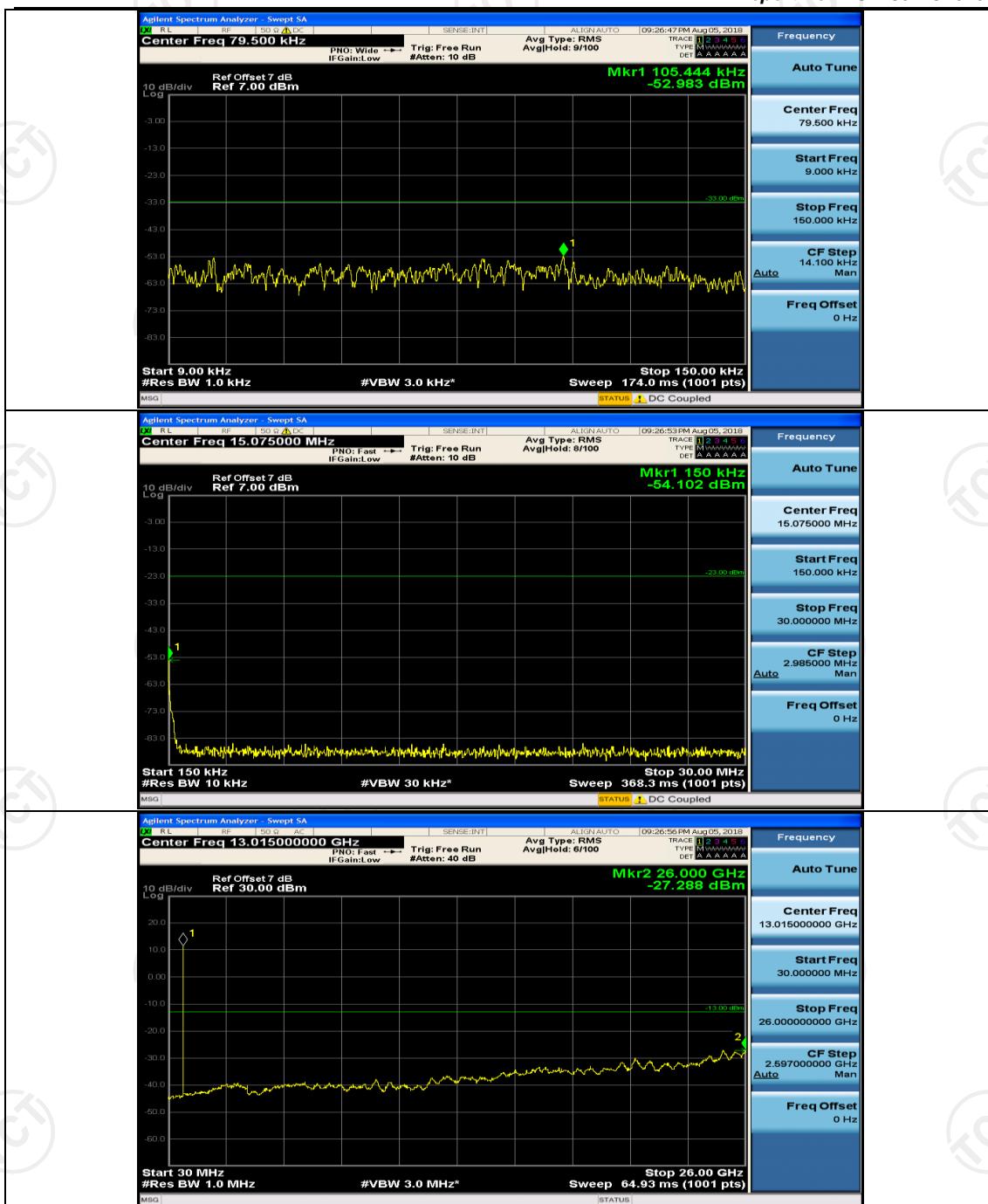
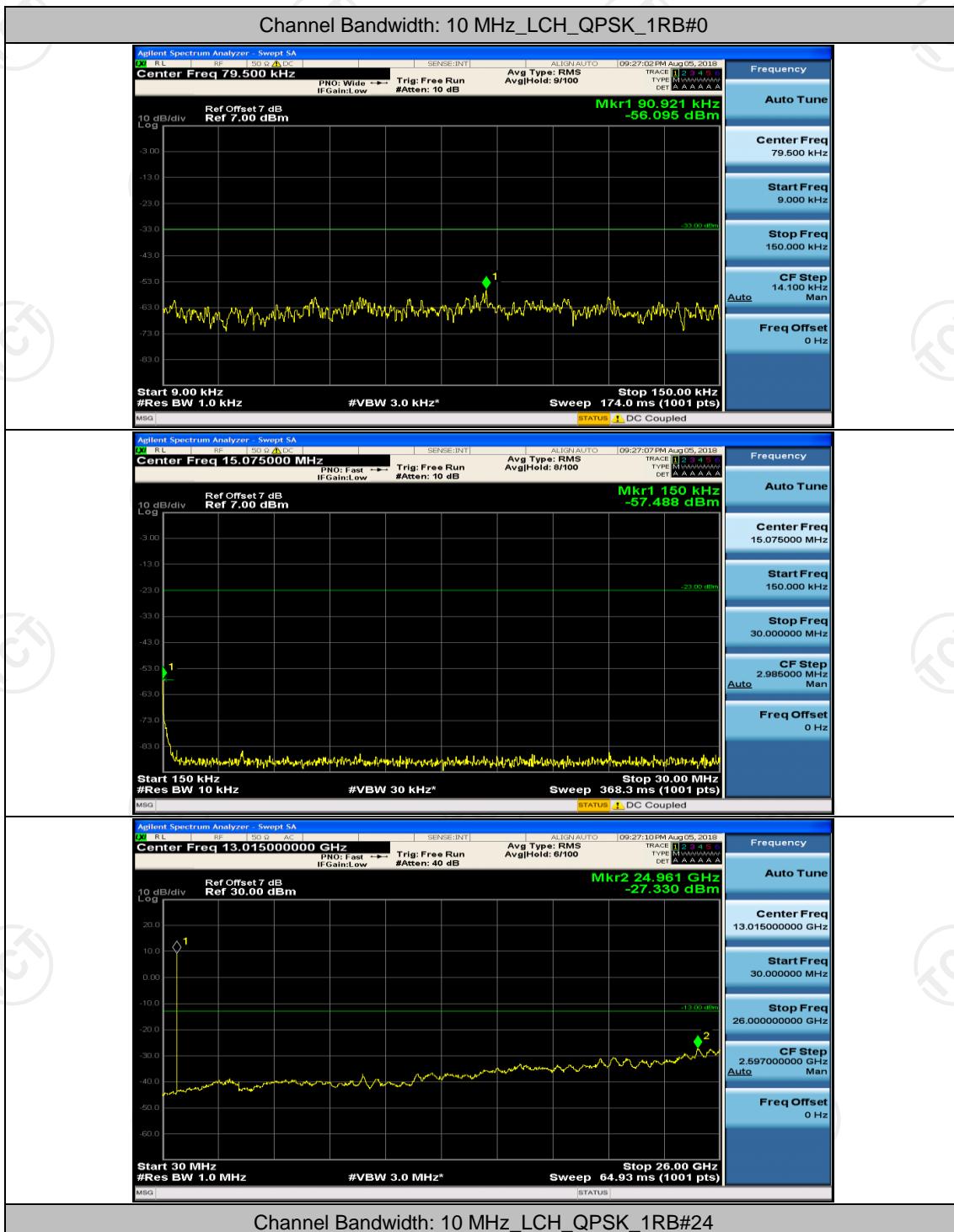
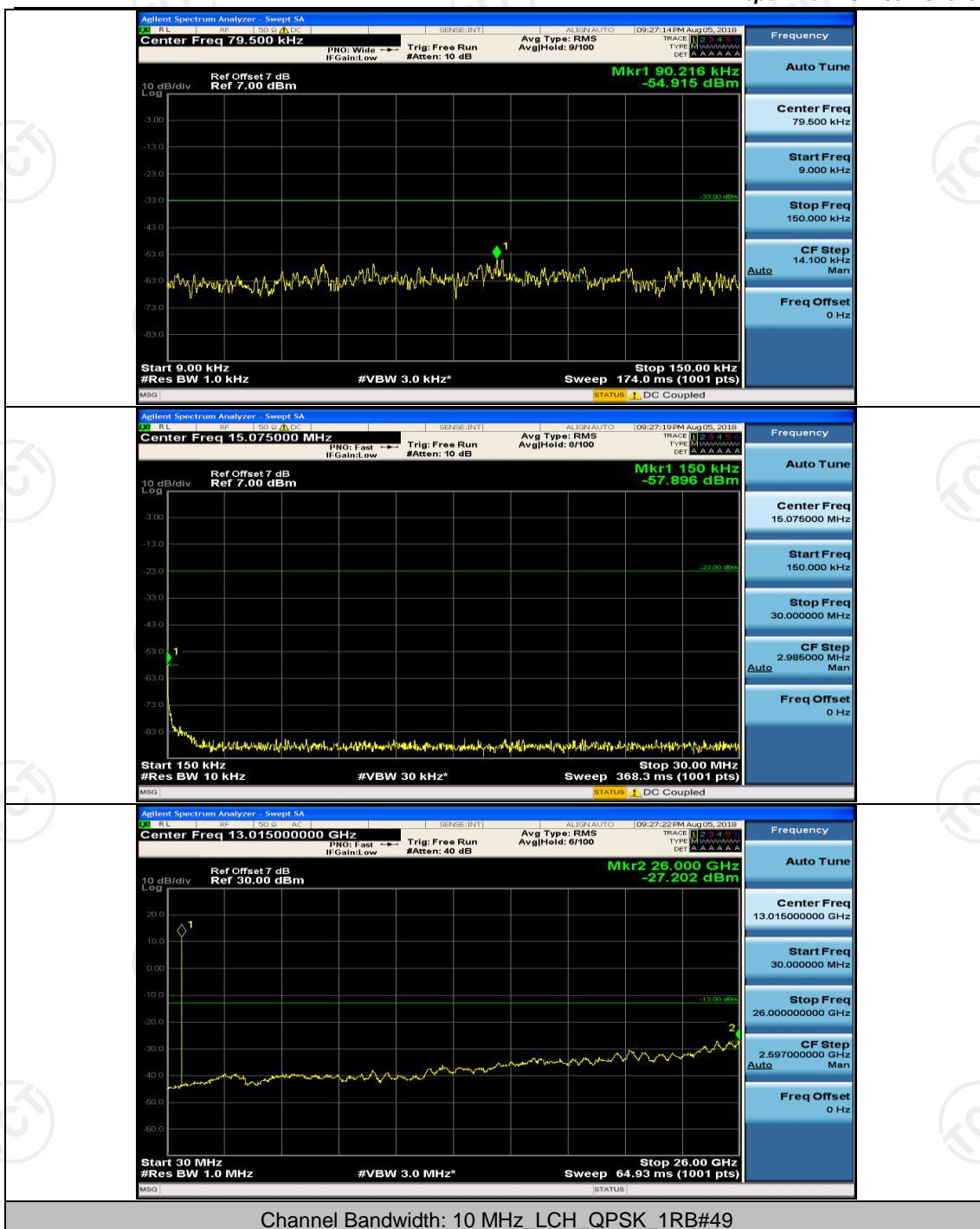


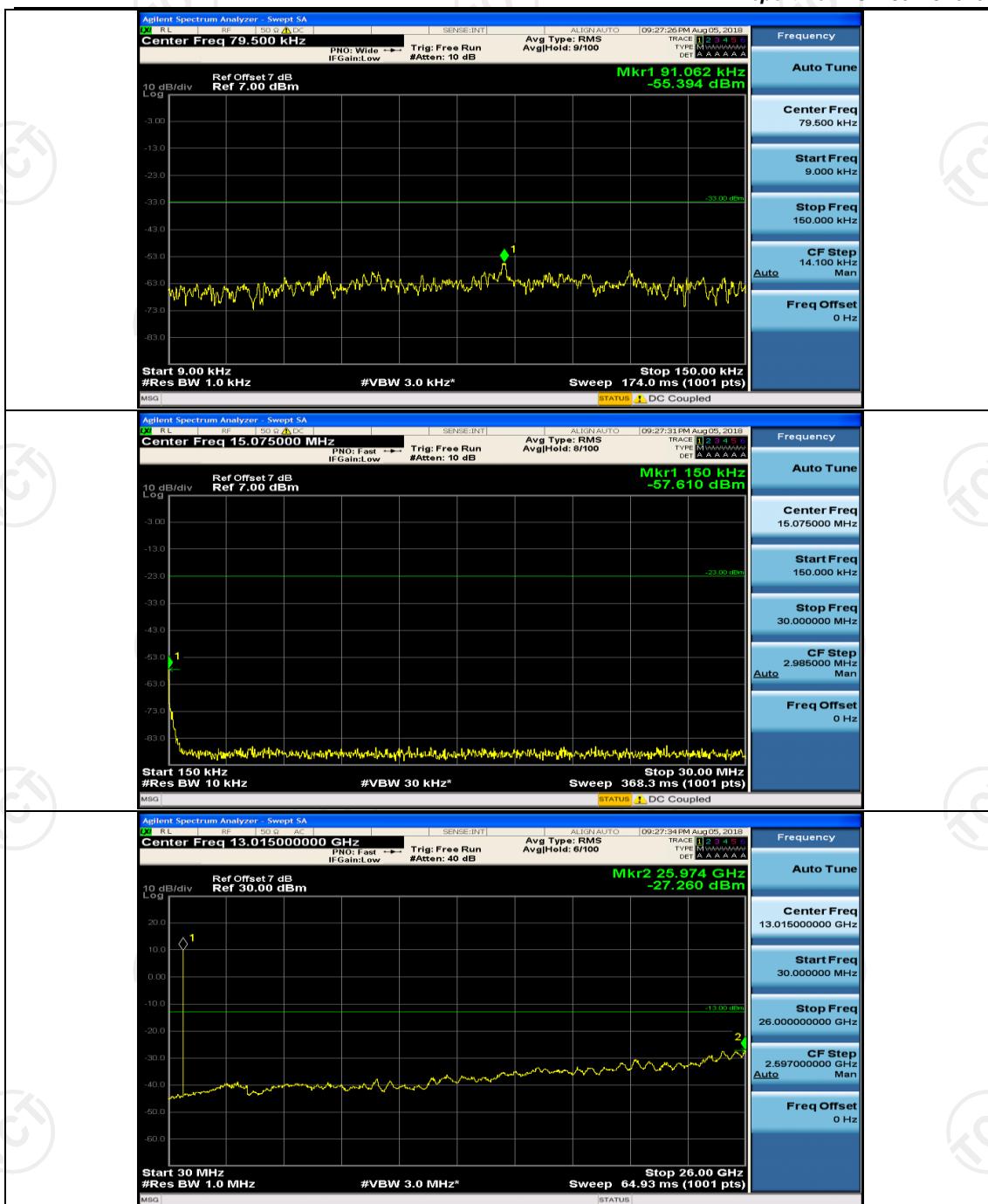
(Channel Bandwidth: 5 MHz)\_HCH\_16QAM\_1RB#24

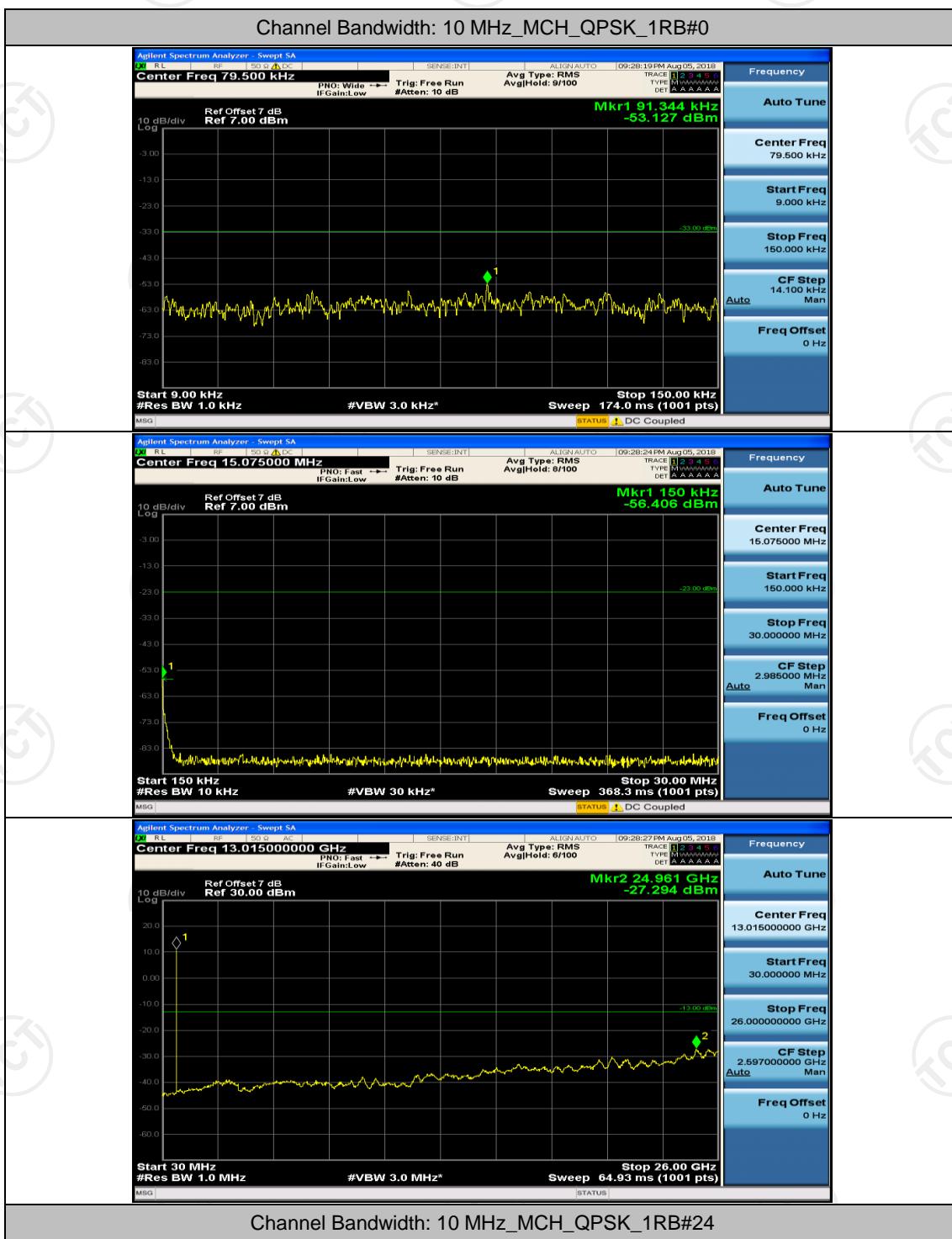


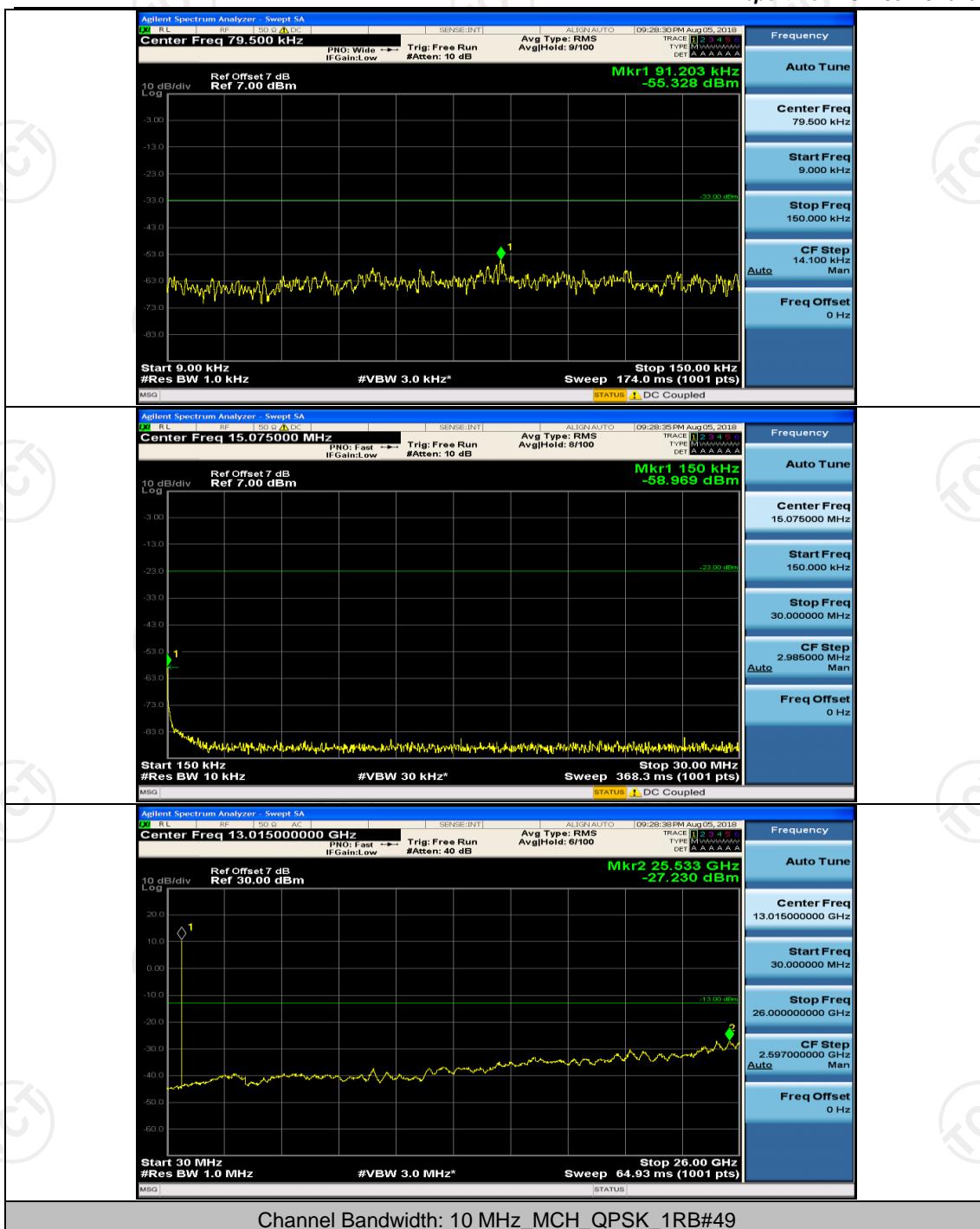
## Channel Bandwidth: 10 MHz

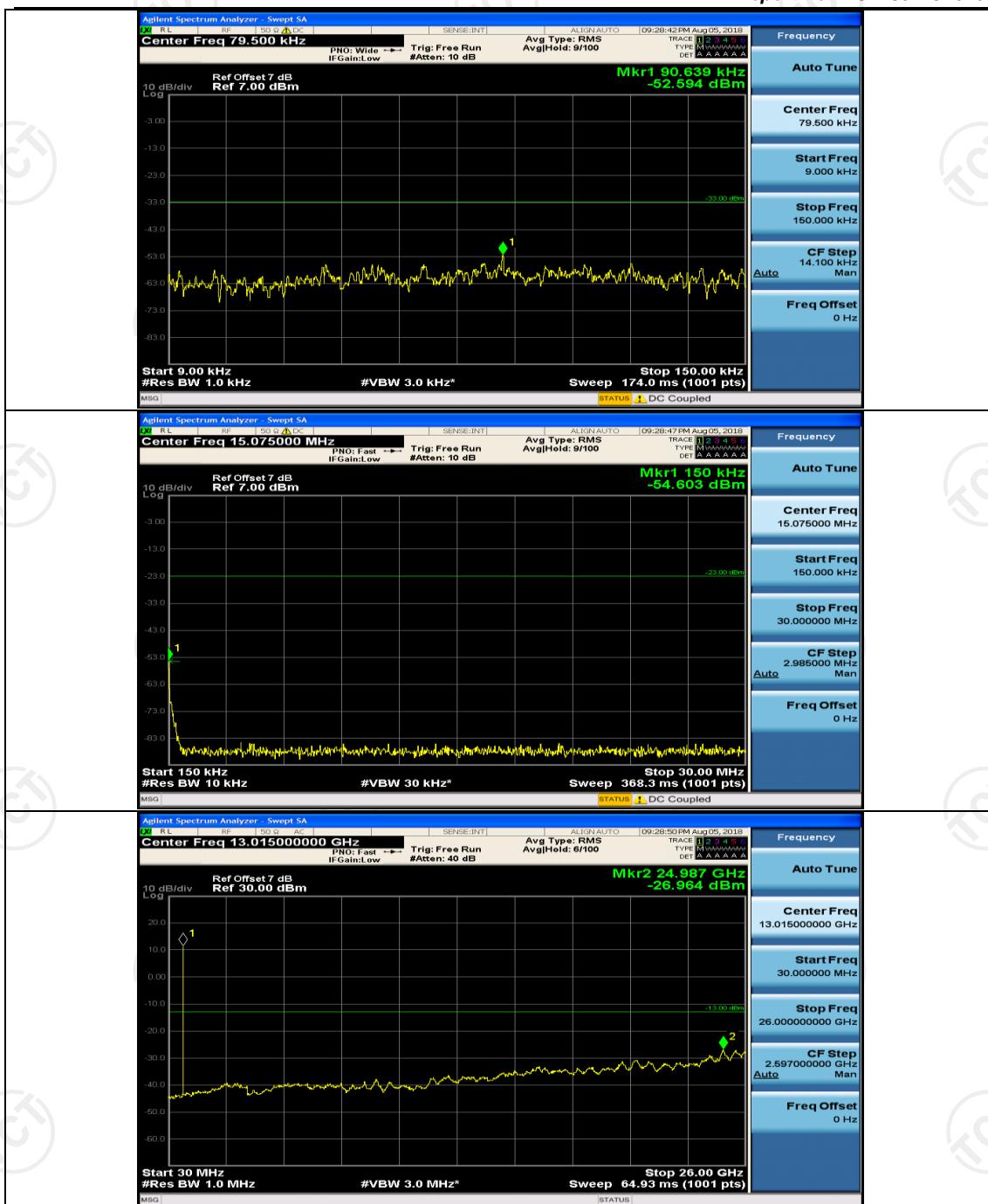


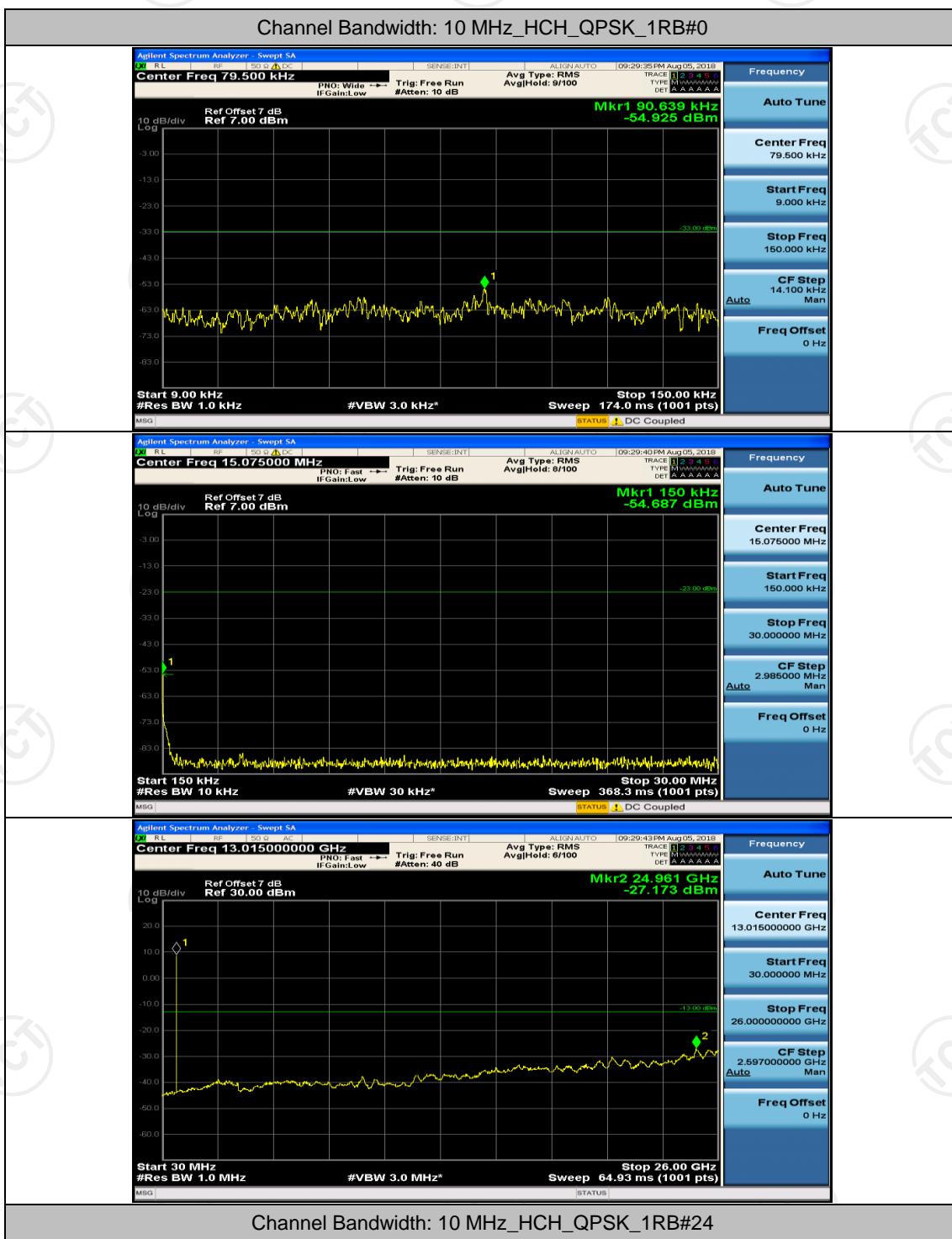


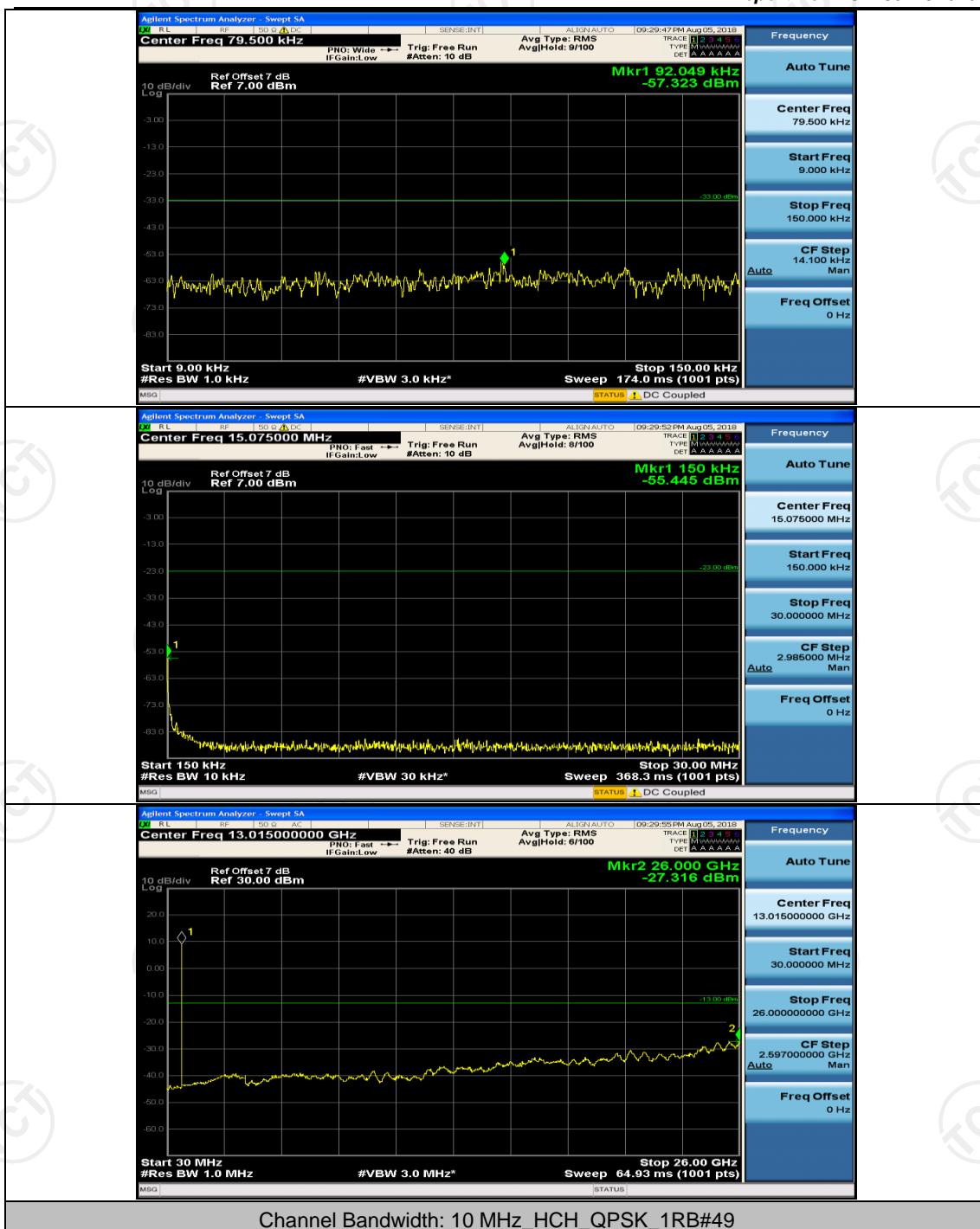


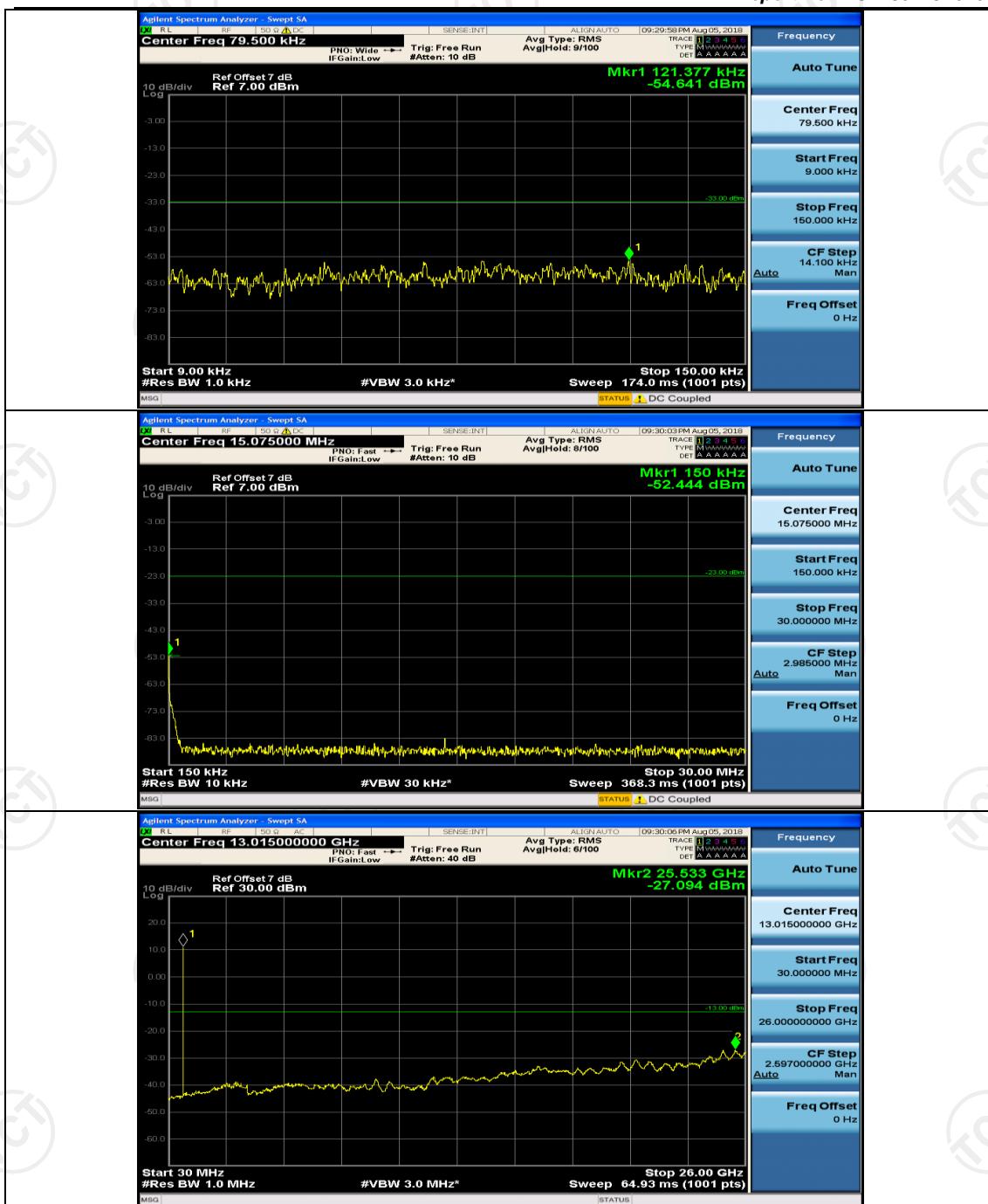


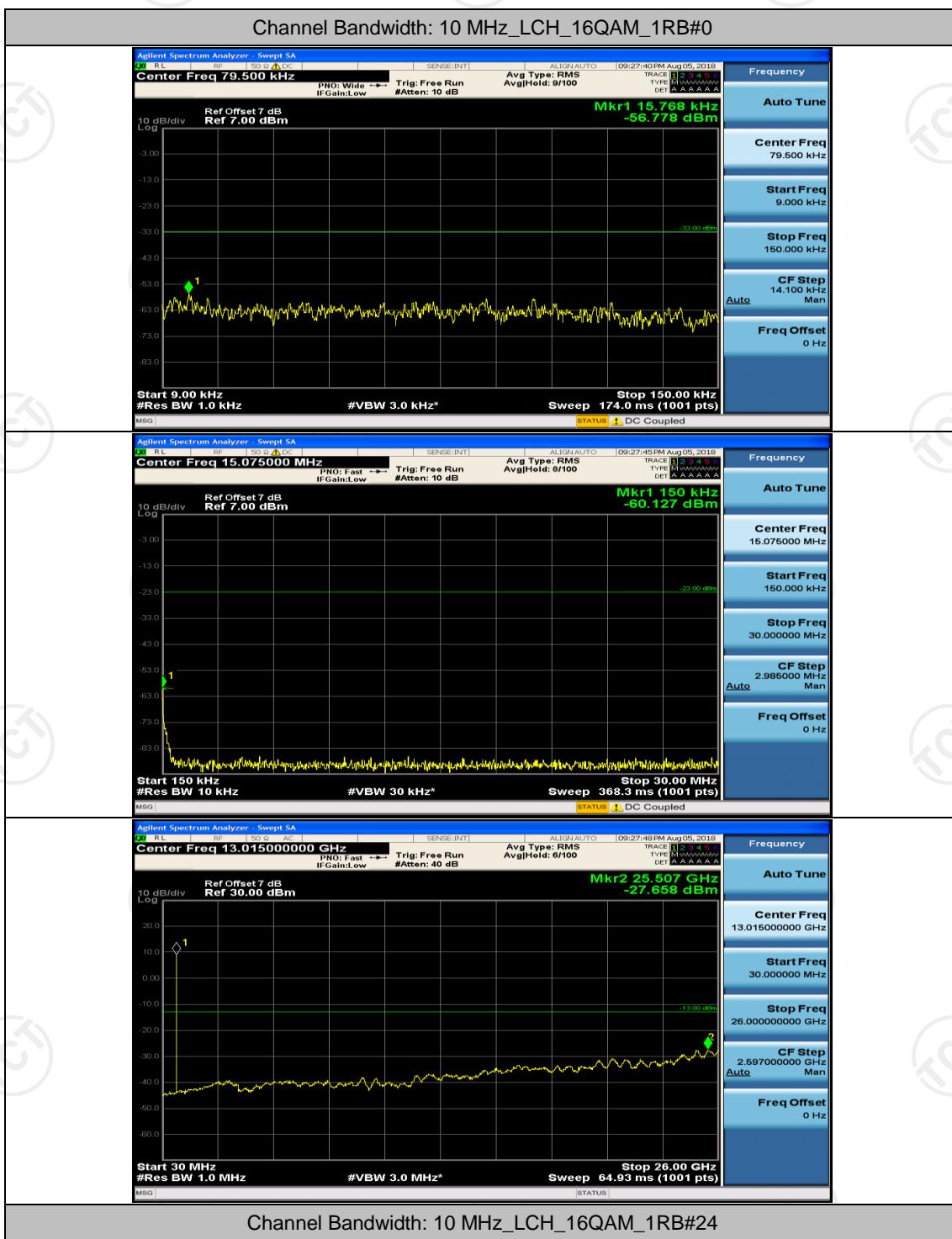


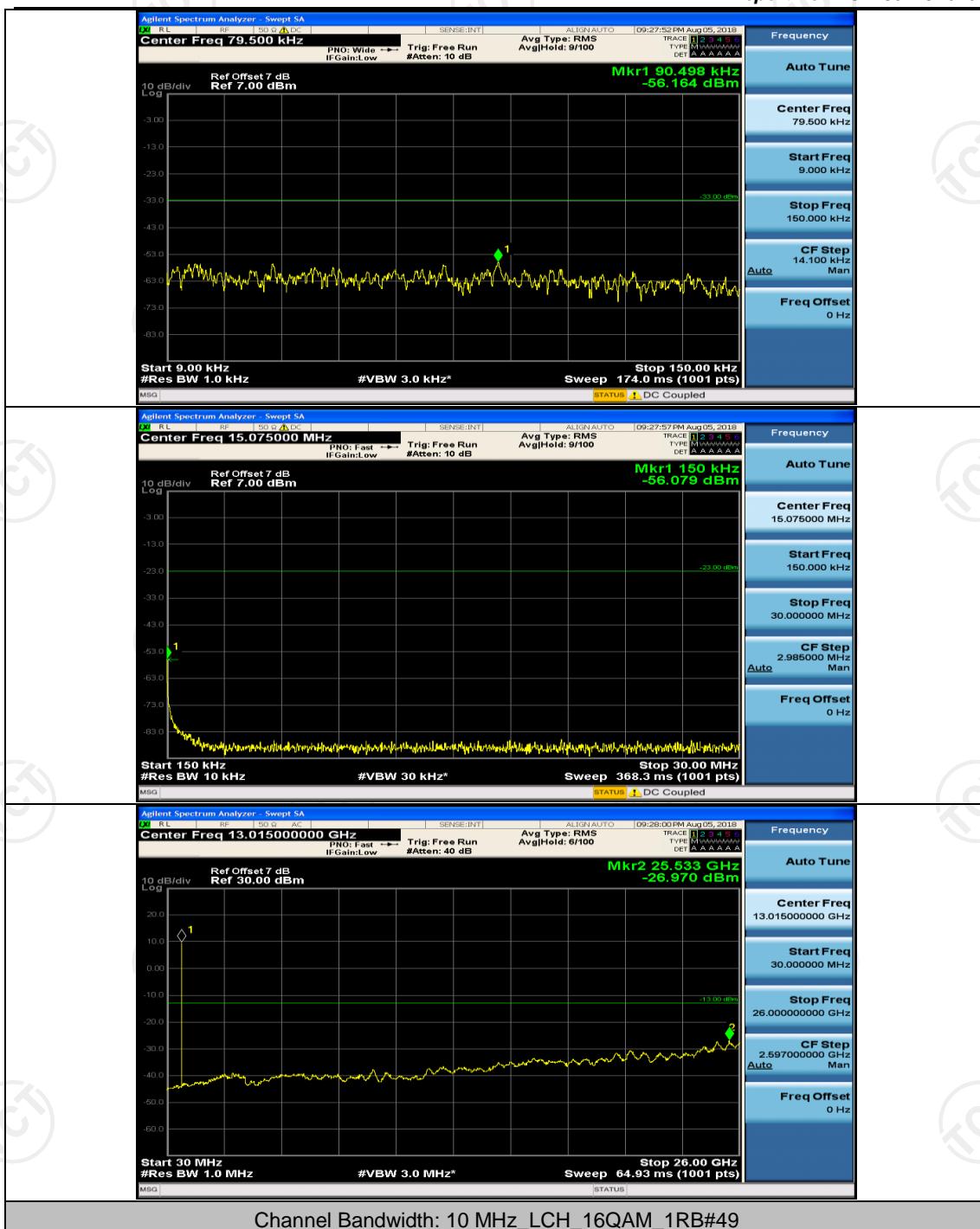


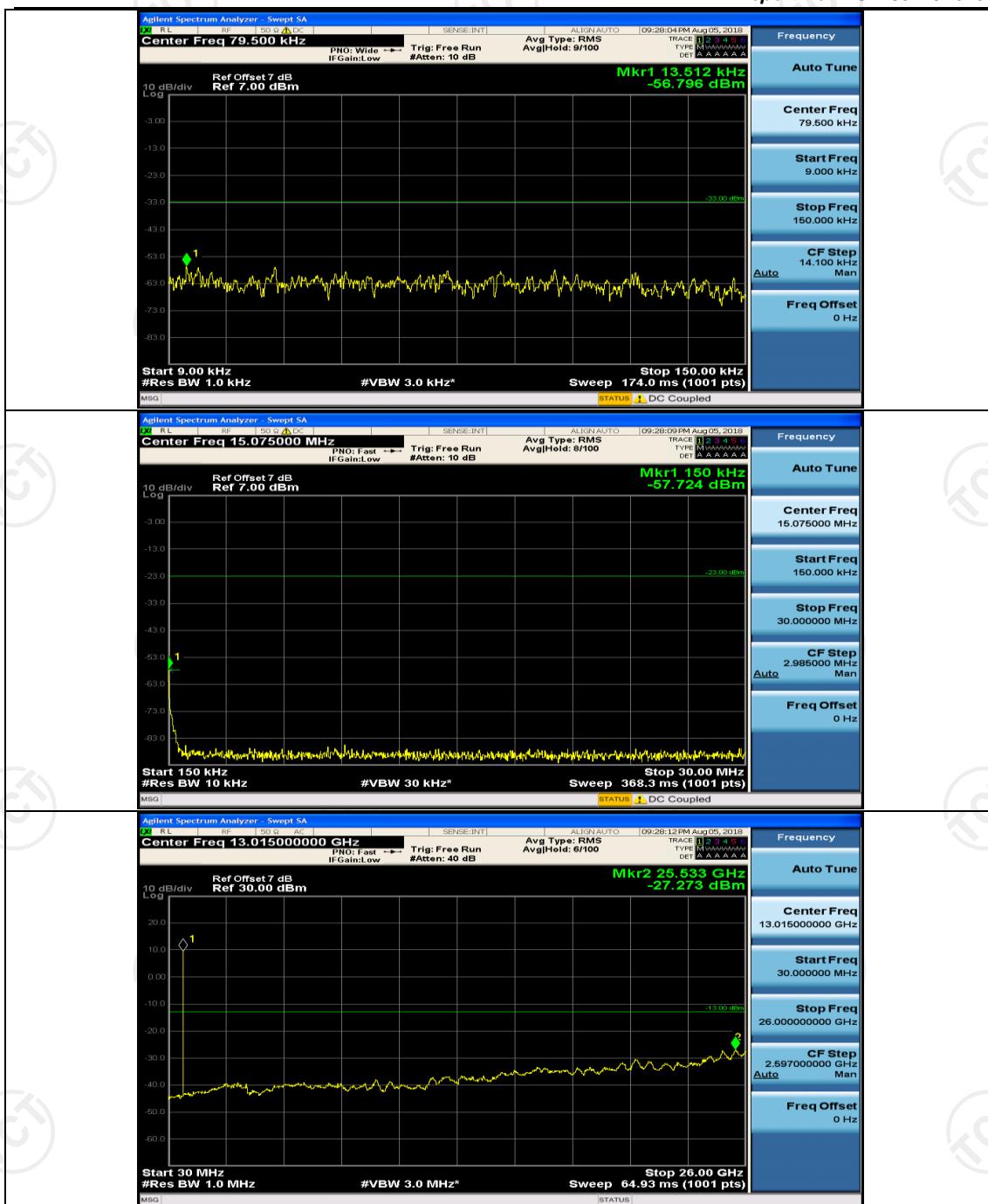


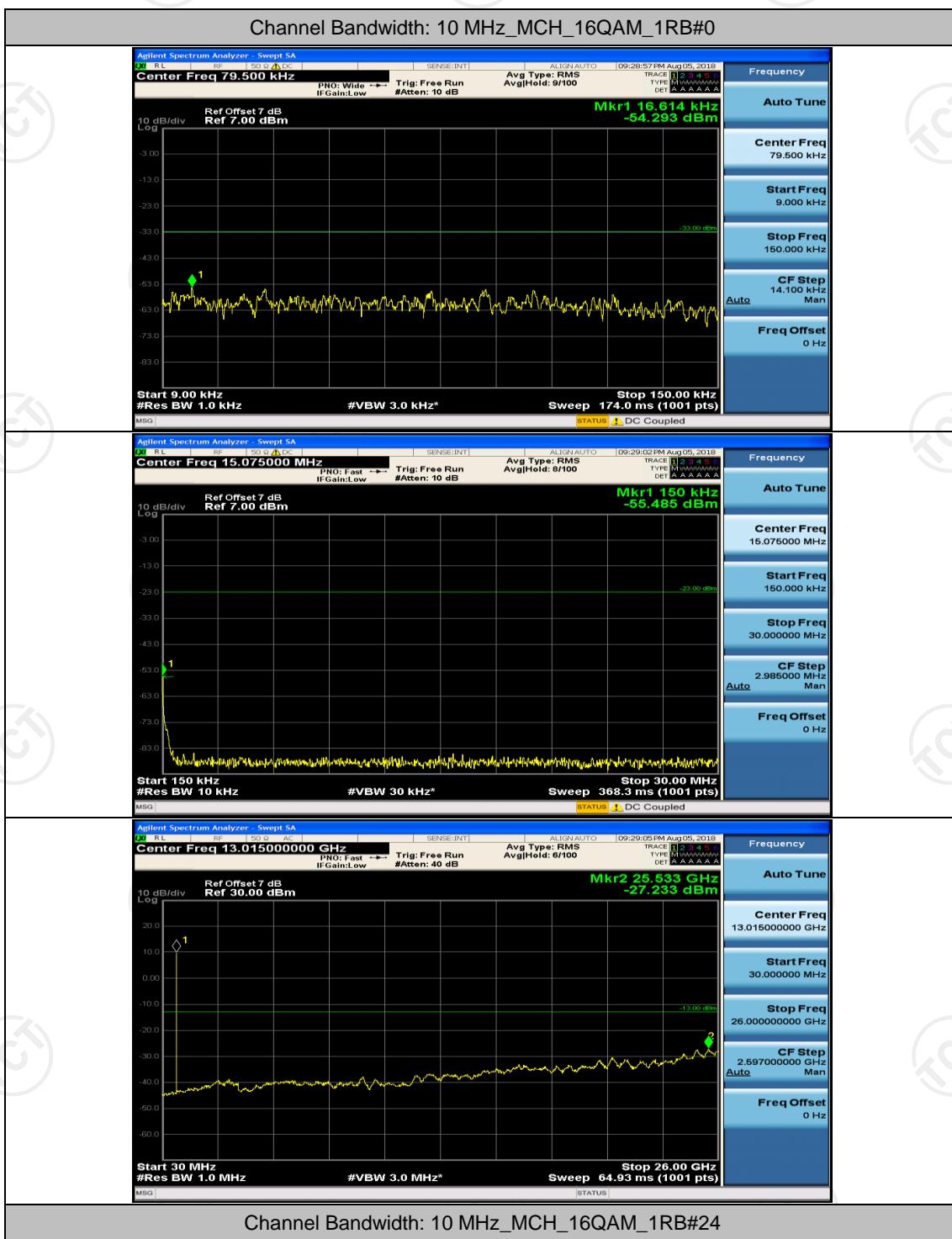


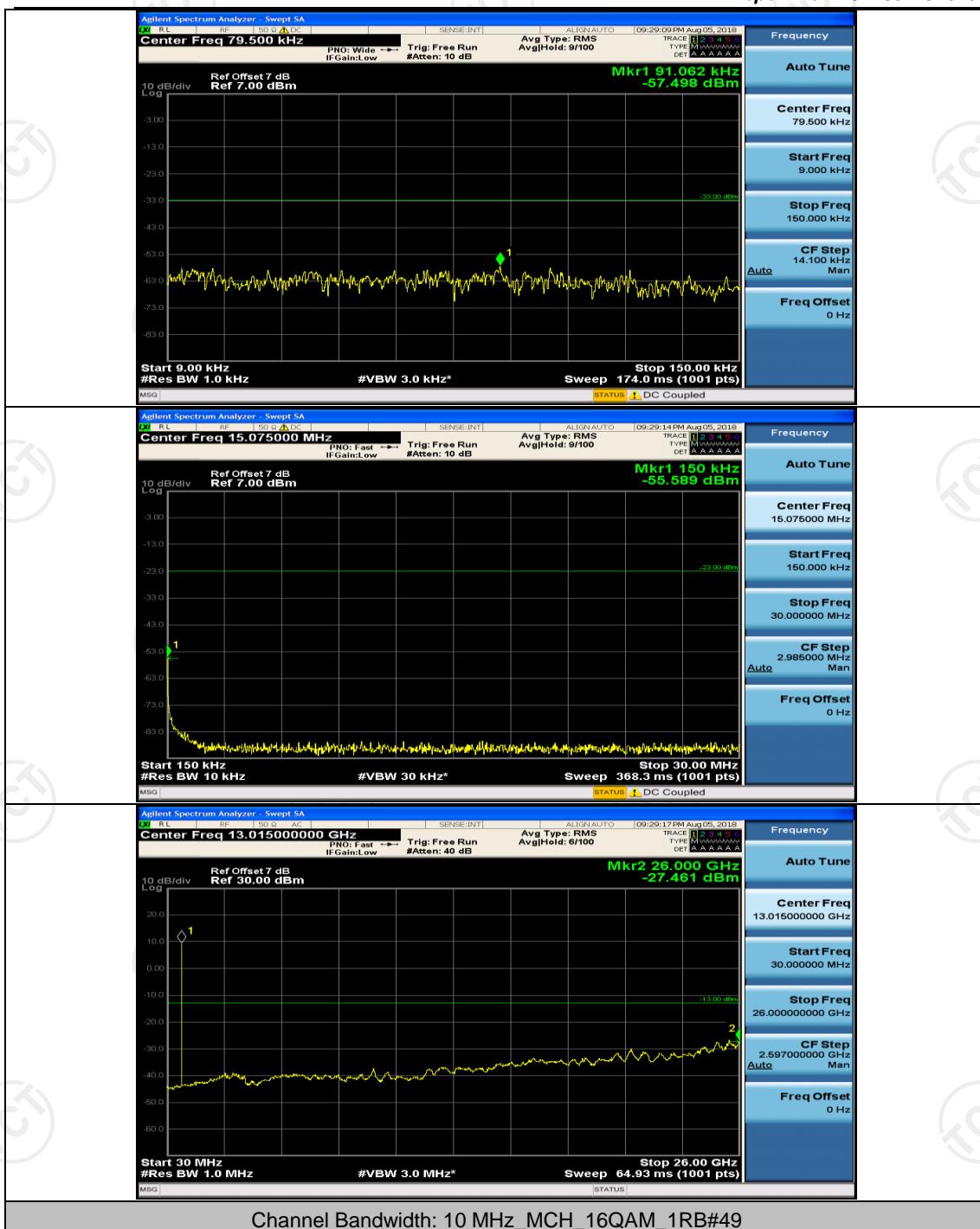


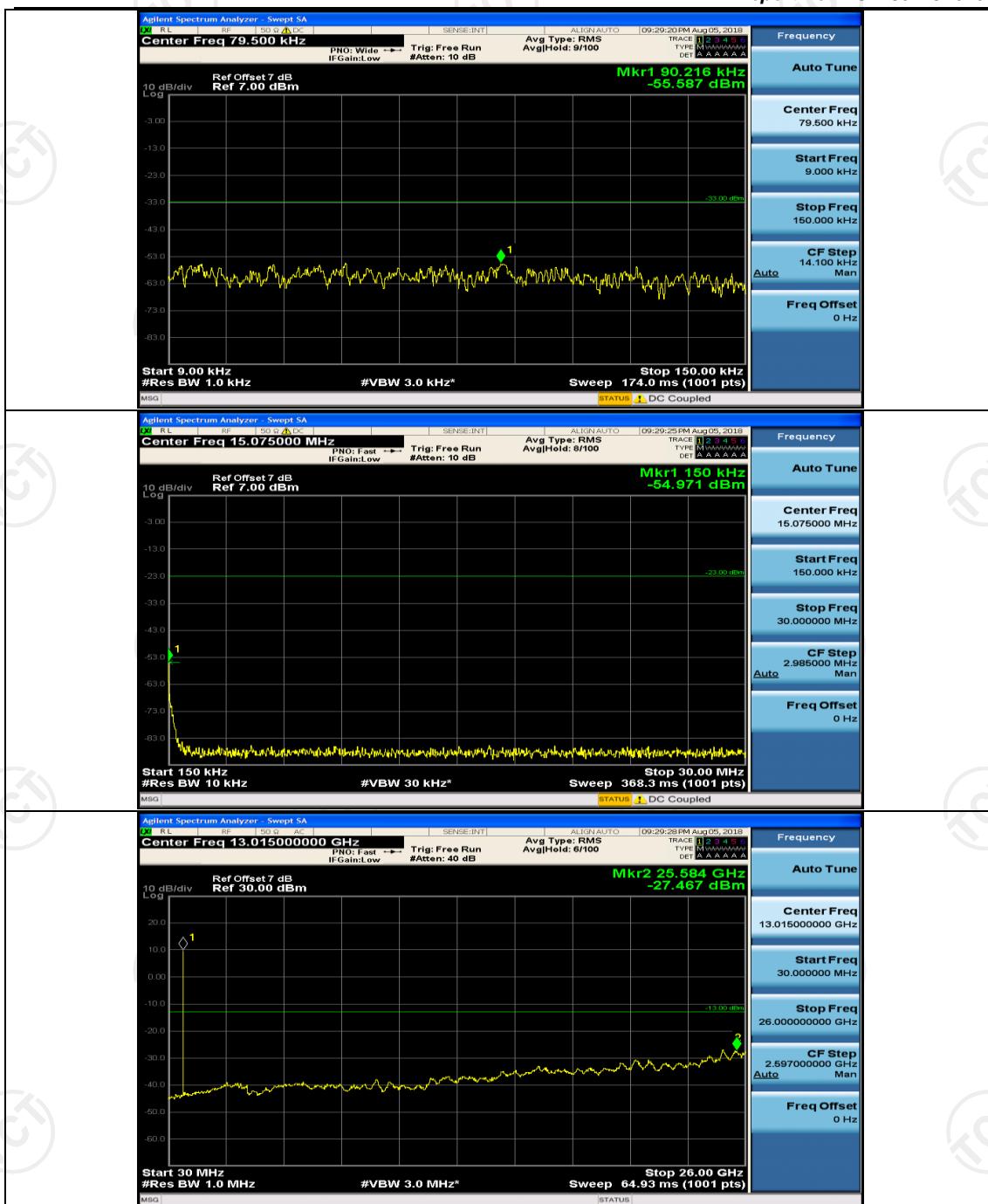


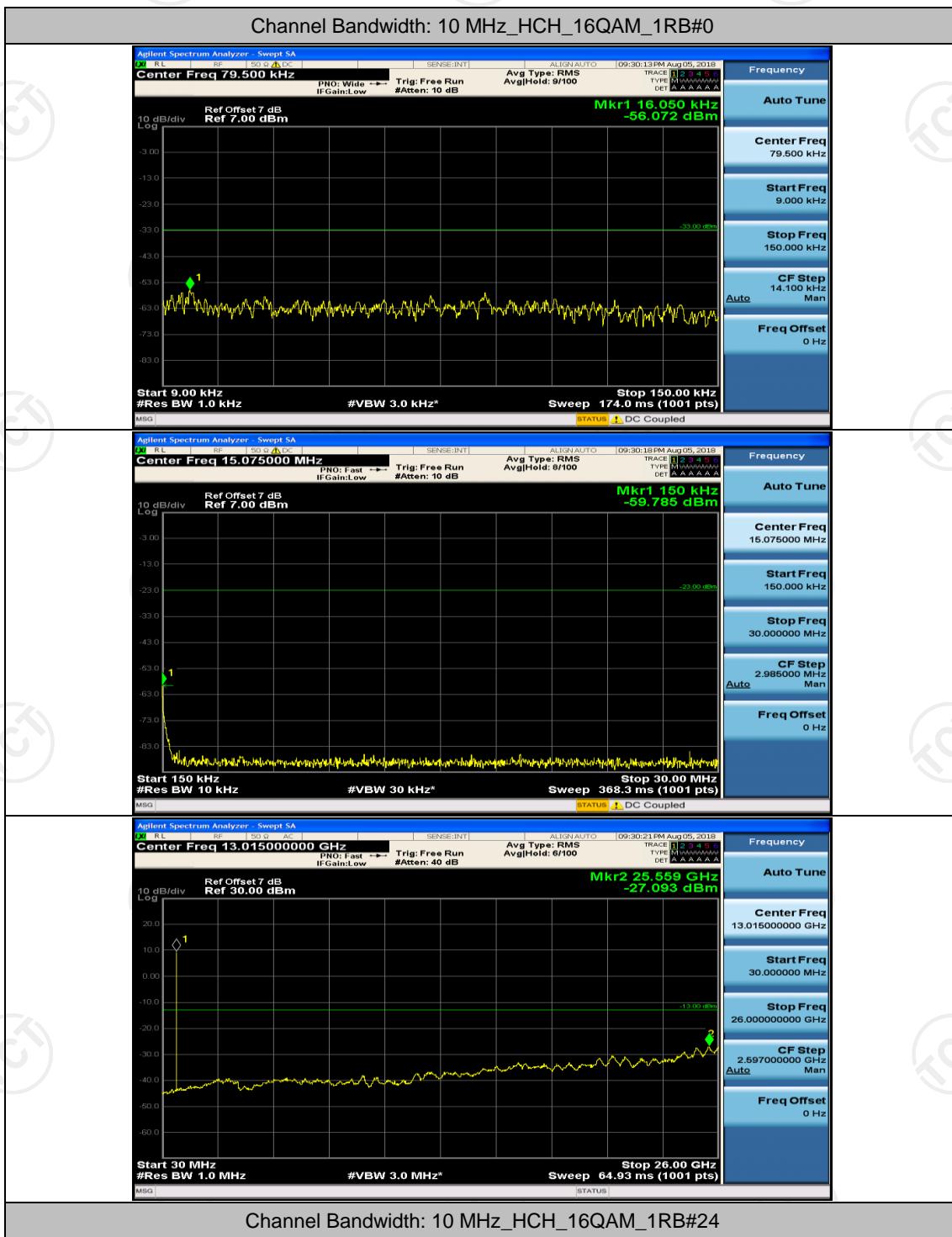


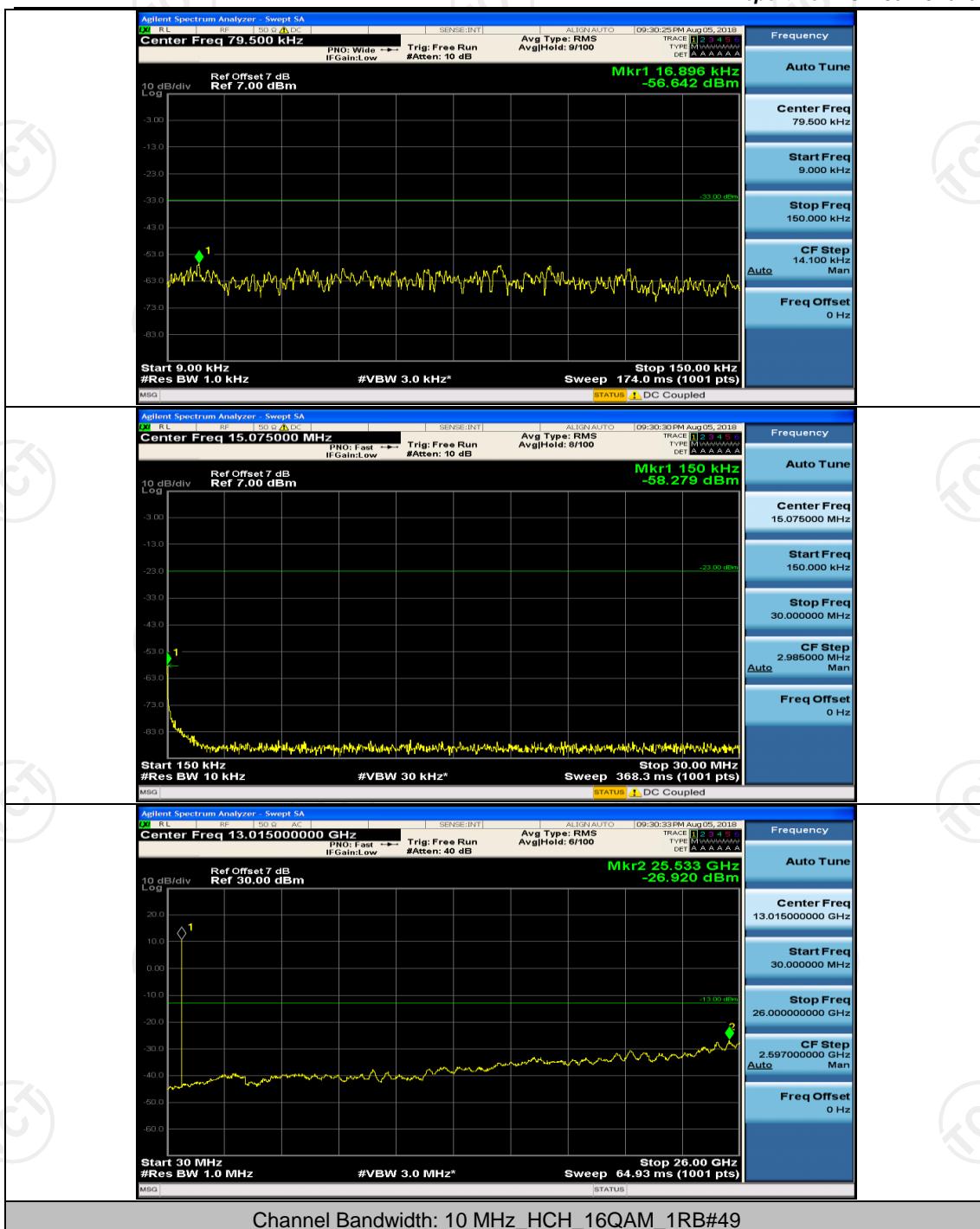




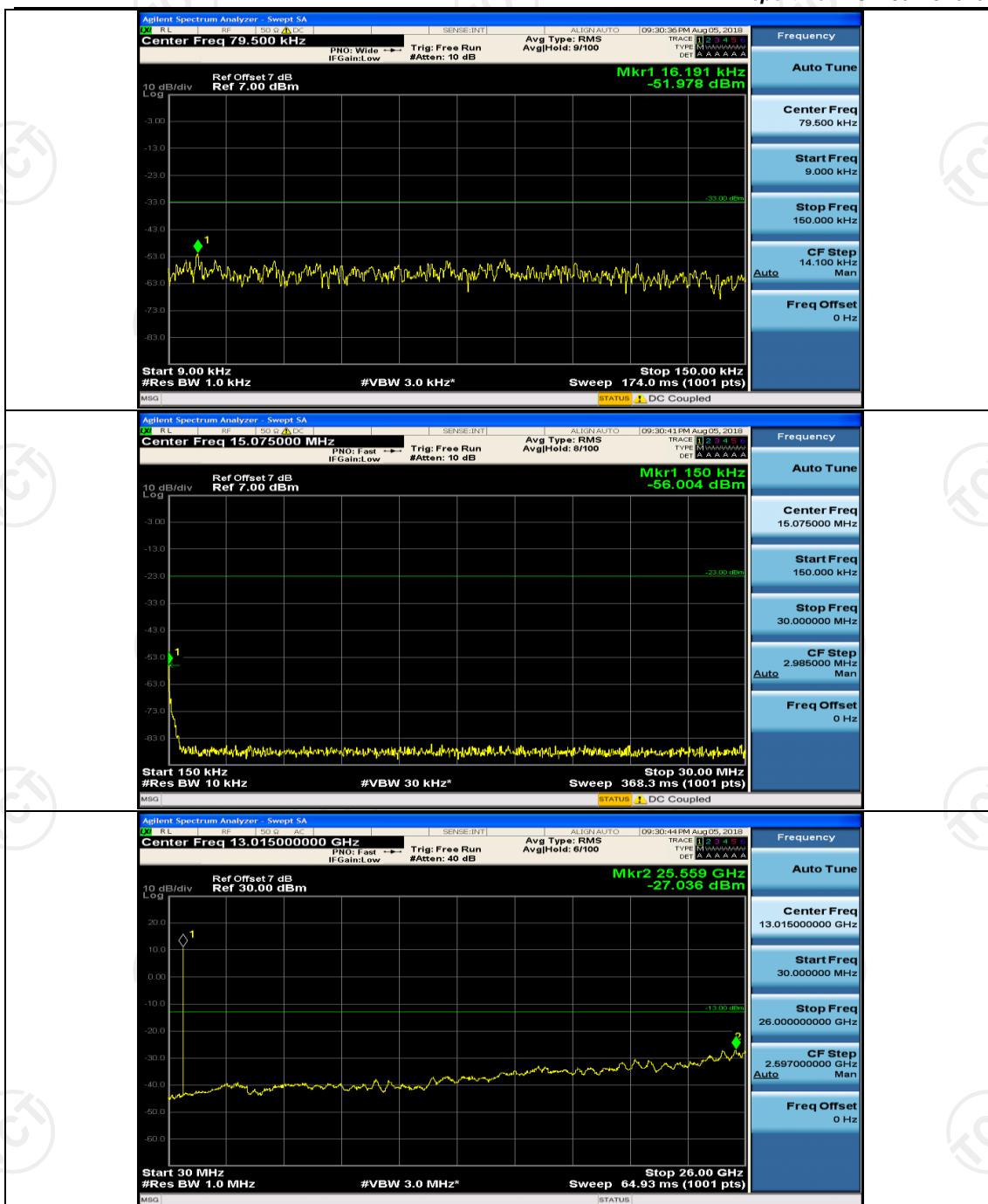








Channel Bandwidth: 10 MHz\_HCH\_16QAM\_1RB#49



## 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	0.002205	± 2.5	PASS
		3.7	25	-0.000879	± 2.5	PASS
		4.2	25	-0.001305	± 2.5	PASS
	MCH	3.3	25	0.000324	± 2.5	PASS
		3.7	25	0.000445	± 2.5	PASS
		4.2	25	0.000020	± 2.5	PASS
	HCH	3.3	25	-0.001163	± 2.5	PASS
		3.7	25	-0.000400	± 2.5	PASS
		4.2	25	-0.000735	± 2.5	PASS
16QAM	LCH	3.3	25	0.002103	± 2.5	PASS
		3.7	25	-0.002494	± 2.5	PASS
		4.2	25	-0.000673	± 2.5	PASS
	MCH	3.3	25	0.001779	± 2.5	PASS
		3.7	25	-0.000869	± 2.5	PASS
		4.2	25	-0.000546	± 2.5	PASS
	HCH	3.3	25	0.000501	± 2.5	PASS
		3.7	25	0.000840	± 2.5	PASS
		4.2	25	0.000284	± 2.5	PASS
Temperature						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	3.7	-30	0.000960	± 2.5	PASS
		3.7	-20	0.000980	± 2.5	PASS
		3.7	-10	0.002042	± 2.5	PASS
		3.7	0	0.000837	± 2.5	PASS
		3.7	10	-0.001558	± 2.5	PASS
		3.7	20	-0.002310	± 2.5	PASS
		3.7	30	-0.000184	± 2.5	PASS
		3.7	40	-0.001411	± 2.5	PASS
		3.7	50	-0.001063	± 2.5	PASS
	MCH	3.7	-30	0.000364	± 2.5	PASS
		3.7	-20	-0.000647	± 2.5	PASS
		3.7	-10	0.000748	± 2.5	PASS
		3.7	0	0.000364	± 2.5	PASS
		3.7	10	0.000240	± 2.5	PASS
		3.7	20	0.000142	± 2.5	PASS

	HCH	3.7	30	-0.000020	$\pm 2.5$	PASS
		3.7	40	0.000425	$\pm 2.5$	PASS
		3.7	50	-0.000384	$\pm 2.5$	PASS
		3.7	-30	-0.000501	$\pm 2.5$	PASS
		3.7	-20	-0.000060	$\pm 2.5$	PASS
		3.7	-10	-0.000902	$\pm 2.5$	PASS
		3.7	0	0.000521	$\pm 2.5$	PASS
		3.7	10	-0.001167	$\pm 2.5$	PASS
		3.7	20	-0.000805	$\pm 2.5$	PASS
		3.7	30	-0.000402	$\pm 2.5$	PASS
16QAM	LCH	3.7	40	-0.000785	$\pm 2.5$	PASS
		3.7	50	-0.000320	$\pm 2.5$	PASS
		3.7	-30	0.001327	$\pm 2.5$	PASS
		3.7	-20	0.000592	$\pm 2.5$	PASS
		3.7	-10	0.000653	$\pm 2.5$	PASS
		3.7	0	0.001593	$\pm 2.5$	PASS
		3.7	10	-0.001041	$\pm 2.5$	PASS
		3.7	20	-0.002678	$\pm 2.5$	PASS
		3.7	30	-0.003026	$\pm 2.5$	PASS
		3.7	40	-0.002106	$\pm 2.5$	PASS
	MCH	3.7	50	-0.002269	$\pm 2.5$	PASS
		3.7	-30	0.001254	$\pm 2.5$	PASS
		3.7	-20	-0.000101	$\pm 2.5$	PASS
		3.7	-10	0.001092	$\pm 2.5$	PASS
		3.7	0	0.001355	$\pm 2.5$	PASS
		3.7	10	0.000154	$\pm 2.5$	PASS
		3.7	20	-0.000425	$\pm 2.5$	PASS
		3.7	30	-0.000364	$\pm 2.5$	PASS
		3.7	40	0.000101	$\pm 2.5$	PASS
		3.7	50	-0.000404	$\pm 2.5$	PASS
	HCH	3.7	-30	-0.000441	$\pm 2.5$	PASS
		3.7	-20	0.001444	$\pm 2.5$	PASS
		3.7	-10	-0.000321	$\pm 2.5$	PASS
		3.7	0	0.000401	$\pm 2.5$	PASS
		3.7	10	-0.001006	$\pm 2.5$	PASS
		3.7	20	0.000080	$\pm 2.5$	PASS
		3.7	30	0.000423	$\pm 2.5$	PASS
		3.7	40	-0.000624	$\pm 2.5$	PASS
		3.7	50	-0.000940	$\pm 2.5$	PASS

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

## Appendix G :Field Strength of Spurious Radiation Measurement Test Result

<b>Bandwidth:</b>	<b>1.4M</b>		<b>Test channel:</b>	<b>Lowest</b>
<b>Modulation:</b>	<b>QPSK</b>		<b>Temperature :</b>	<b>23~24°C</b>
<b>RB #:</b>	<b>1RB #0</b>		<b>Relative Humidity:</b>	<b>46~48%</b>
<b>Note:</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
<b>Frequency (MHz)</b>	<b>Spurious Emission</b>		<b>Limit (dBm)</b>	<b>Result</b>
1399.4	Polarization	Level (dBm)		
1399.4	Vertical	-33.57		
2099.1	V	-42.62		
-	V	-		
1399.4	Horizontal	-32.35		
2099.1	H	-44.81		
-	H	-		
<b>Bandwidth:</b>	<b>1.4M</b>		<b>Test channel:</b>	<b>Middle</b>
<b>Modulation:</b>	<b>QPSK</b>		<b>Temperature :</b>	<b>23~24°C</b>
<b>RB #:</b>	<b>1RB #0</b>		<b>Relative Humidity:</b>	<b>46~48%</b>
<b>Note:</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
<b>Frequency (MHz)</b>	<b>Spurious Emission</b>		<b>Limit (dBm)</b>	<b>Result</b>
1415	Polarization	Level (dBm)		
1415	Vertical	-32.62		
2122.5	V	-42.54		
-	V	-		
1415	Horizontal	-35.12		
2122.5	H	-42.75		
-	H	-		
<b>Bandwidth:</b>	<b>1.4M</b>		<b>Test channel:</b>	<b>Highest</b>
<b>Modulation:</b>	<b>QPSK</b>		<b>Temperature :</b>	<b>23~24°C</b>
<b>RB #:</b>	<b>1RB #0</b>		<b>Relative Humidity:</b>	<b>46~48%</b>
<b>Note:</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
<b>Frequency (MHz)</b>	<b>Spurious Emission</b>		<b>Limit (dBm)</b>	<b>Result</b>
1430.6	Polarization	Level (dBm)		
1430.6	Vertical	-32.20		
2145.9	V	-41.63		
-	V	-		
1430.6	Horizontal	-32.27		
2145.9	H	-44.70		
-	H	-		

<b>Bandwidth:</b>	<b>1.4M</b>		<b>Test channel:</b>	<b>Lowest</b>
<b>Modulation:</b>	<b>16QAM</b>		<b>Temperature :</b>	<b>23~24°C</b>
<b>RB #:</b>	<b>1RB #0</b>		<b>Relative Humidity:</b>	<b>46~48%</b>
<b>Note:</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1399.4	Vertical	-32.35		
2099.1	V	-42.62		
-	V	-		
1399.4	Horizontal	-33.49	-13.00	PASS
2099.1	H	-46.35		
-	H	-		
<b>Bandwidth:</b>	<b>1.4M</b>		<b>Test channel:</b>	<b>Middle</b>
<b>Modulation:</b>	<b>16QAM</b>		<b>Temperature :</b>	<b>23~24°C</b>
<b>RB #:</b>	<b>1RB #0</b>		<b>Relative Humidity:</b>	<b>46~48%</b>
<b>Note:</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1415	Vertical	-31.65		
2122.5	V	-41.58		
-	V	-		
1415	Horizontal	-32.60	-13.00	PASS
2122.5	H	-43.82		
-	H	-		
<b>Bandwidth:</b>	<b>1.4M</b>		<b>Test channel:</b>	<b>Highest</b>
<b>Modulation:</b>	<b>16QAM</b>		<b>Temperature :</b>	<b>23~24°C</b>
<b>RB #:</b>	<b>1RB #0</b>		<b>Relative Humidity:</b>	<b>46~48%</b>
<b>Note:</b>	Spurious emissions within 30-1000MHz were found more than 20dB below limit line.			
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1430.6	Vertical	-33.54		
2145.9	V	-42.21		
-	V	-		
1430.6	Horizontal	-32.54	-13.00	PASS
2145.9	H	-44.25		
-	H	-		

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