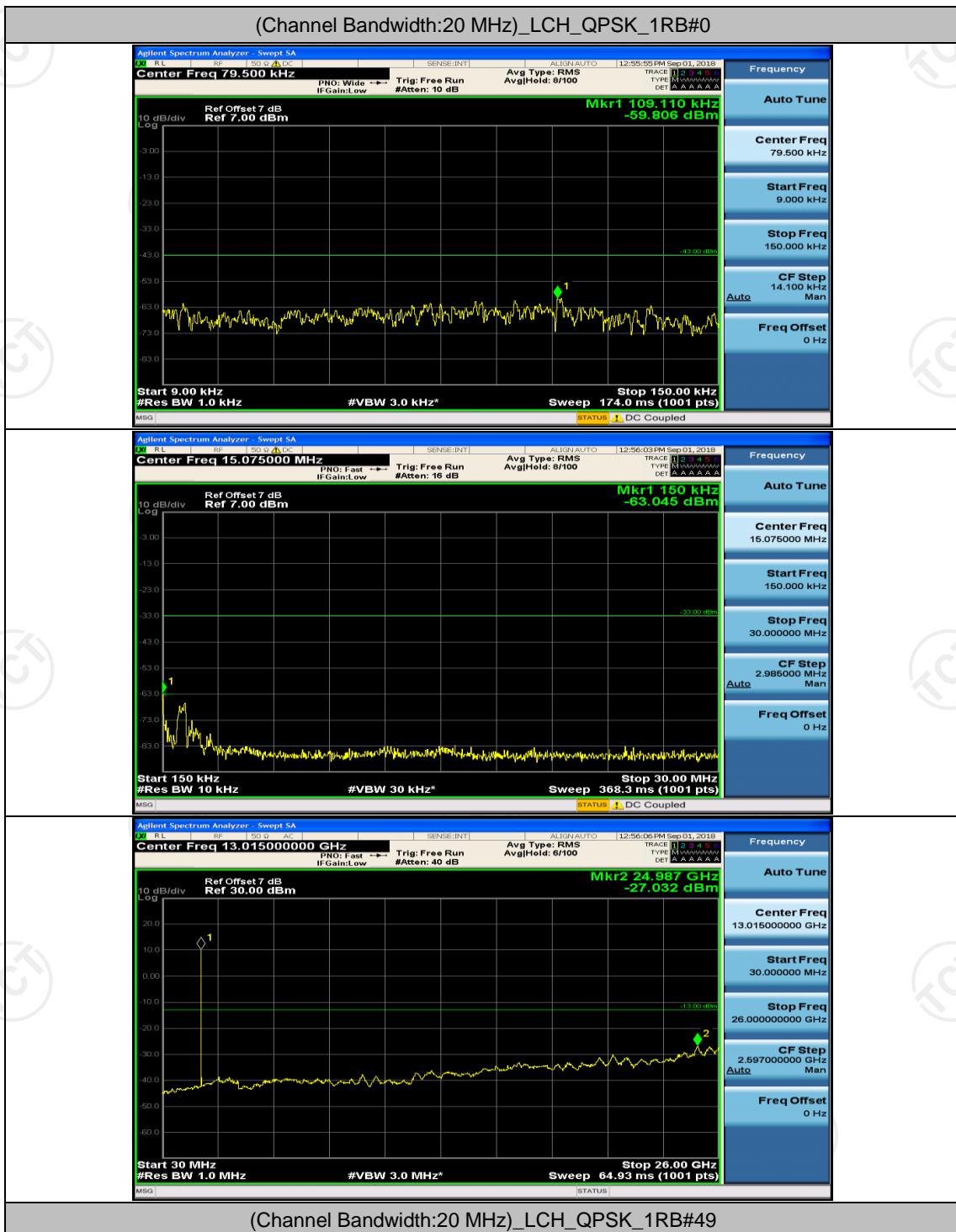
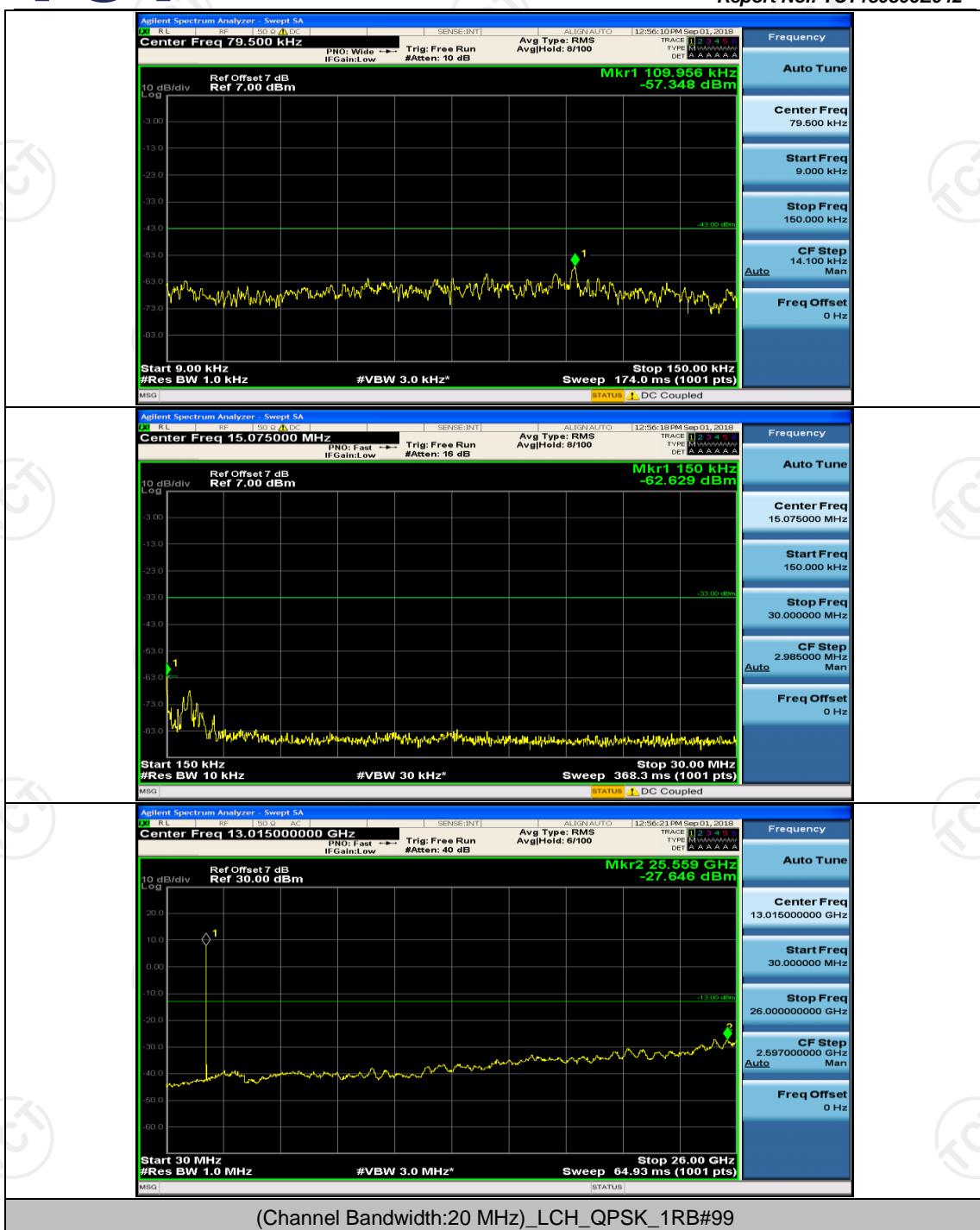
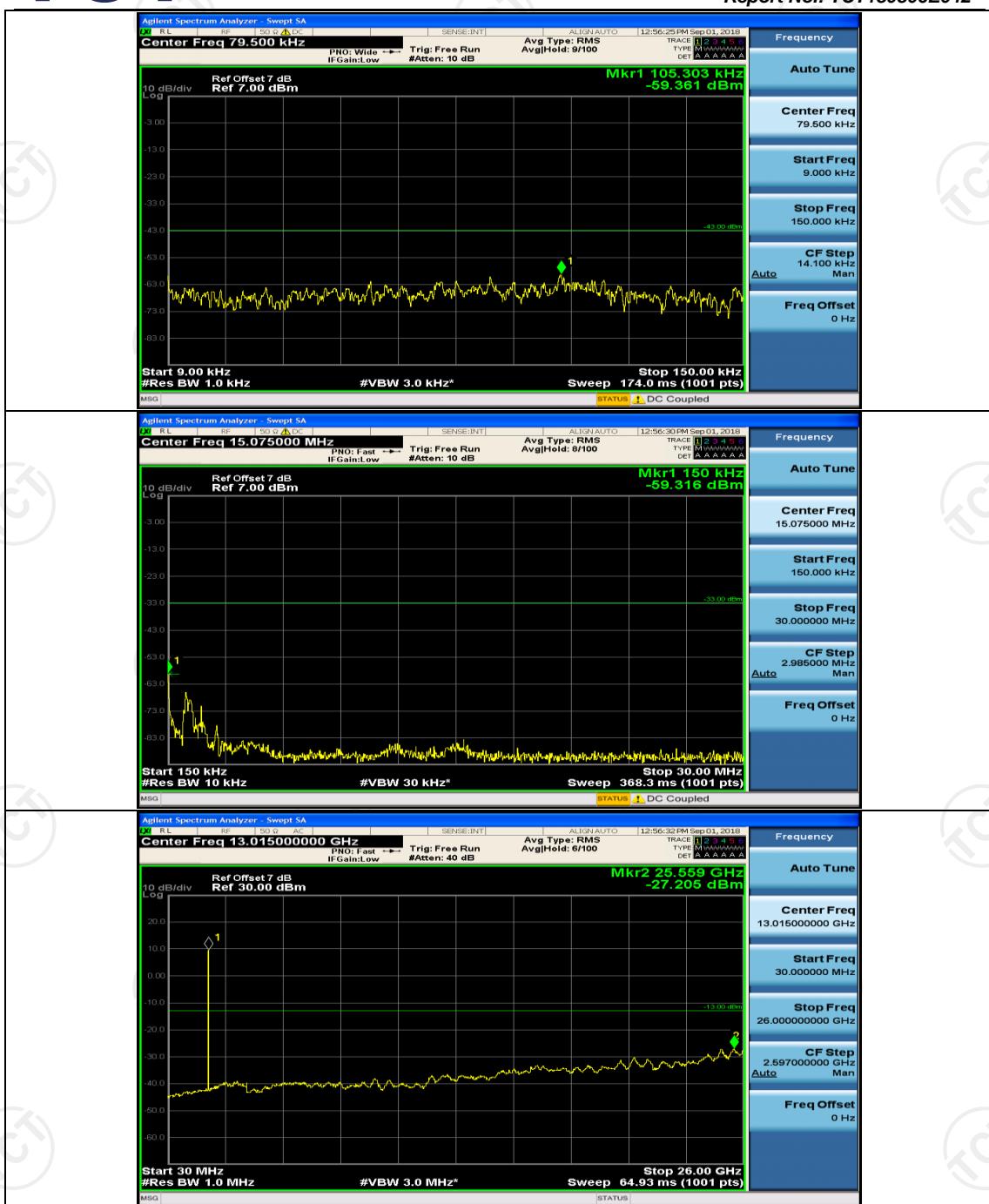
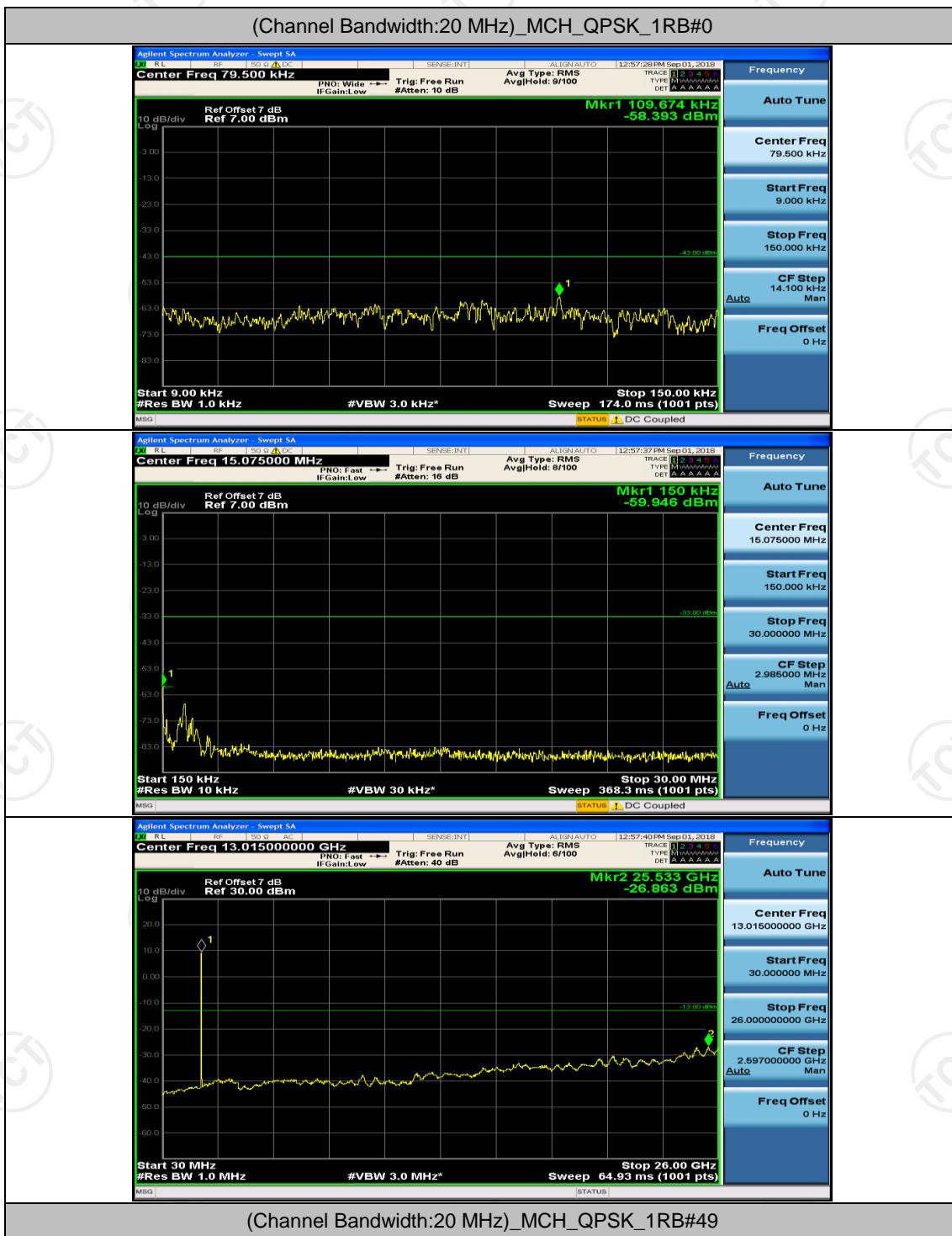


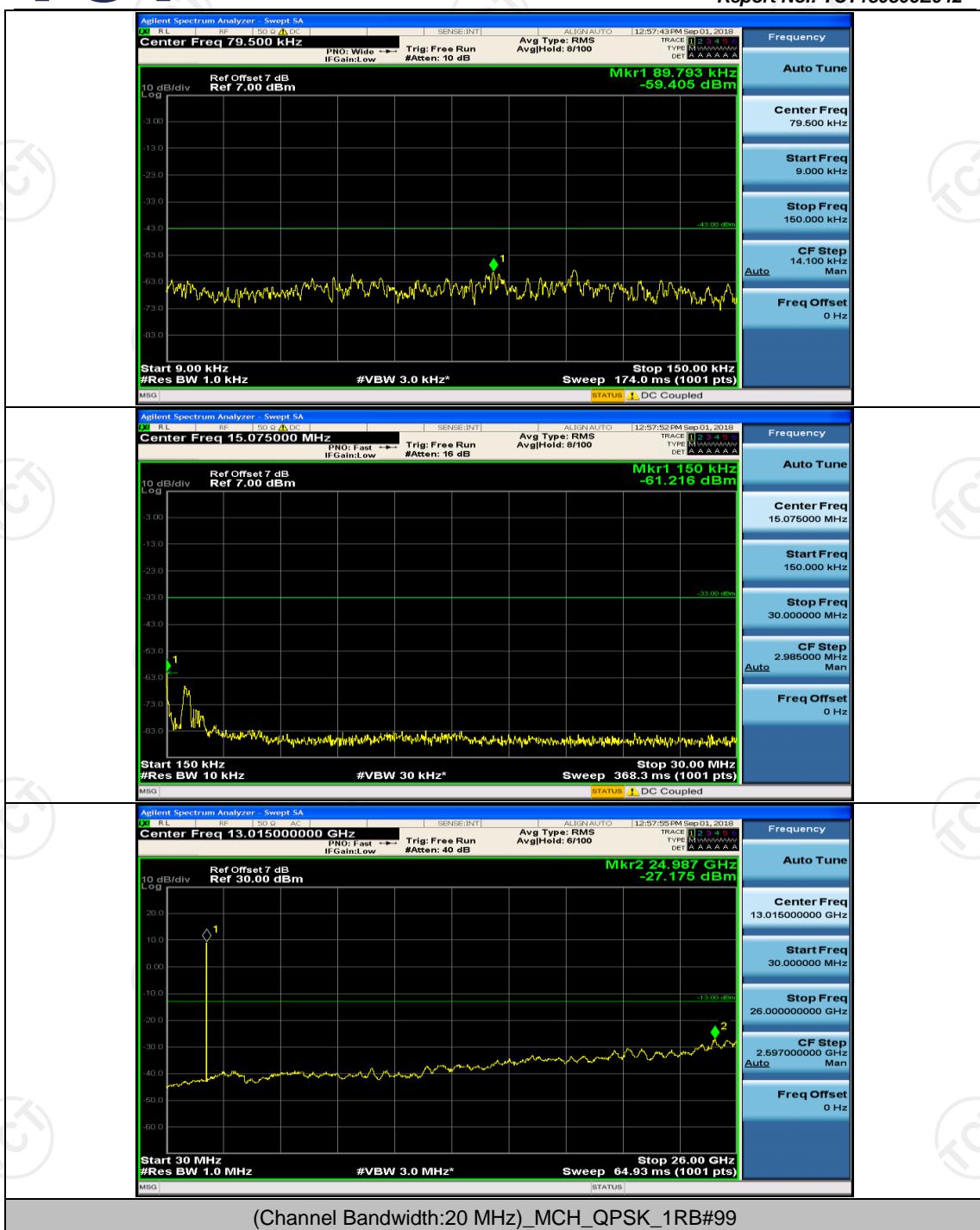
## Channel Bandwidth: 20 MHz

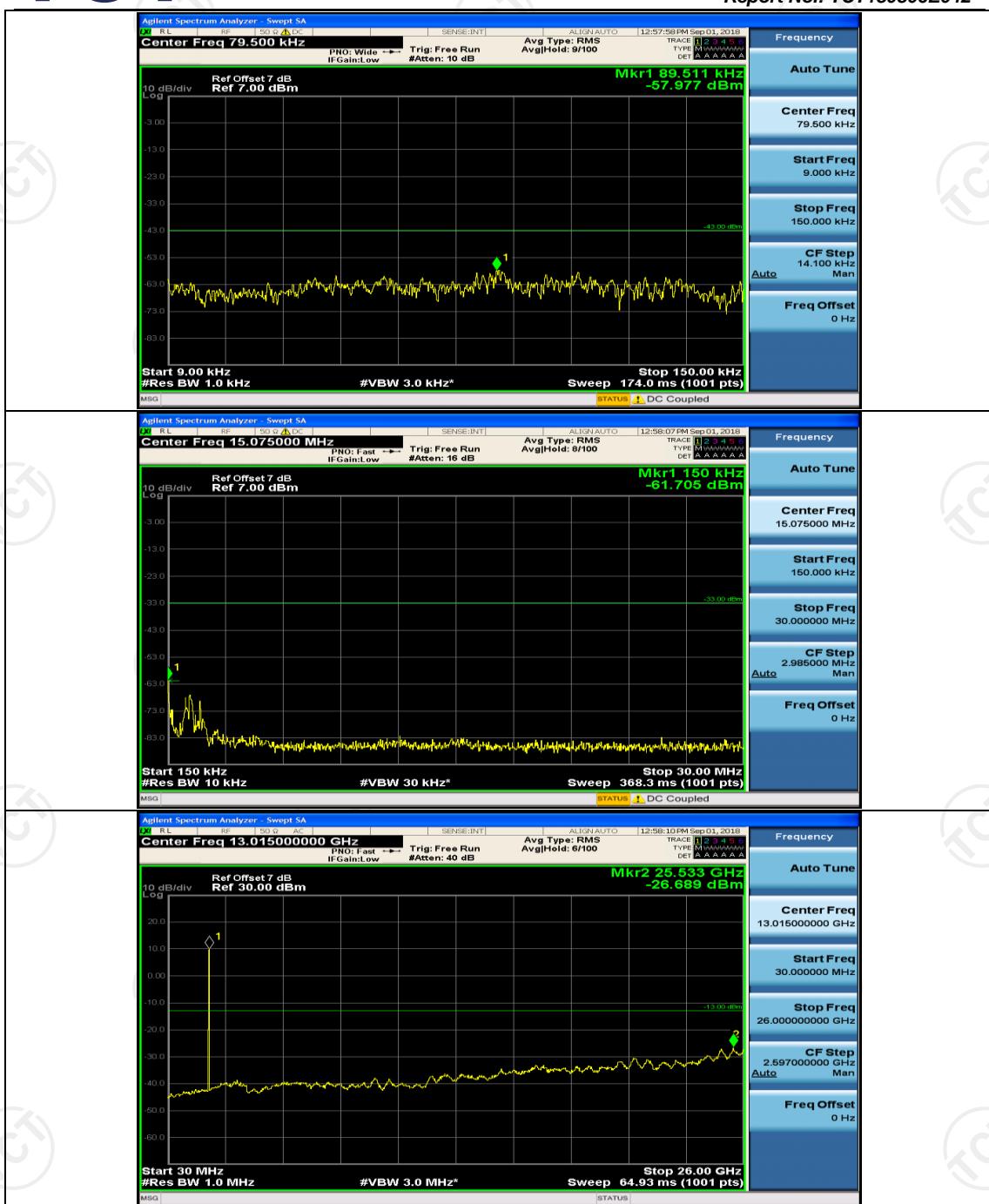


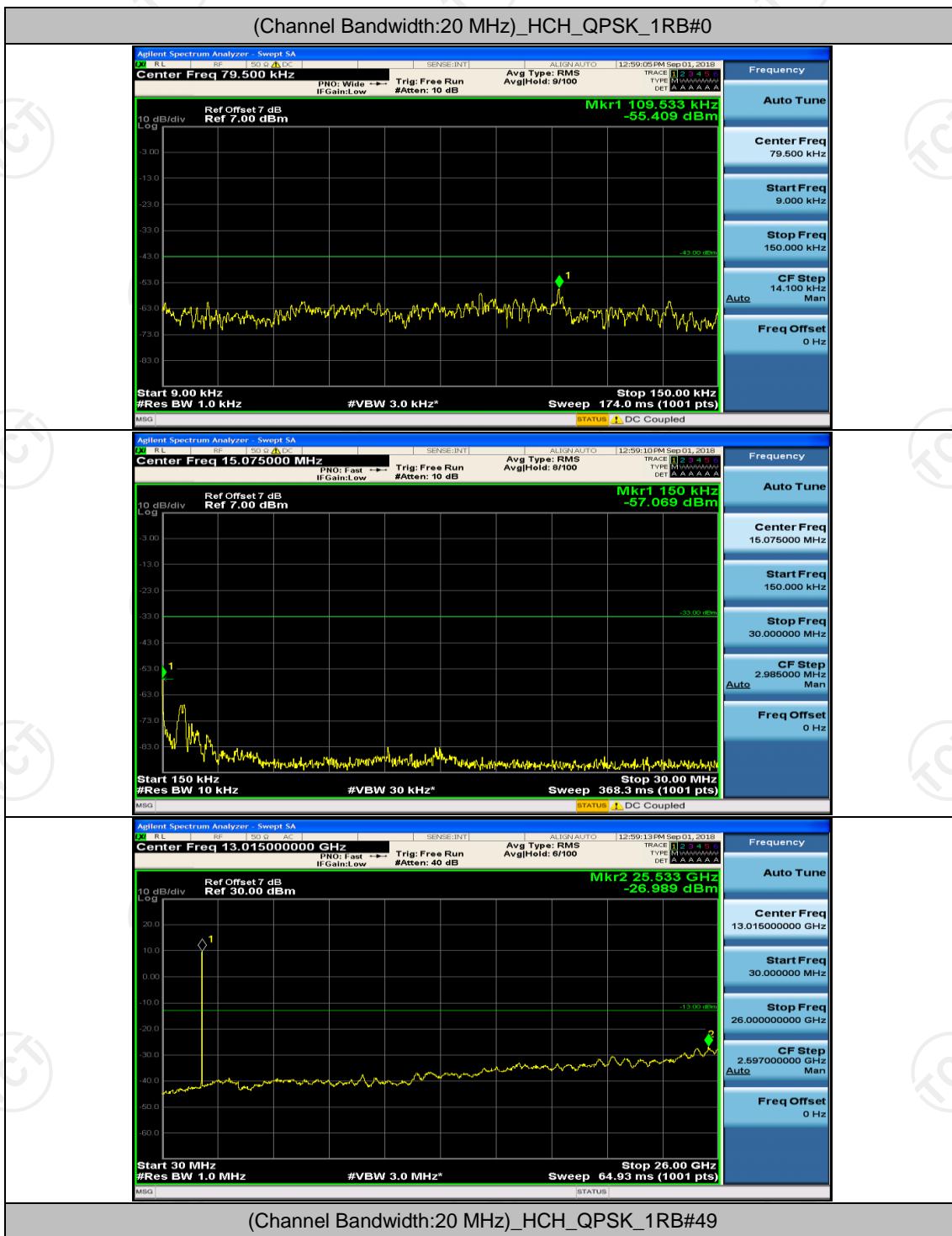


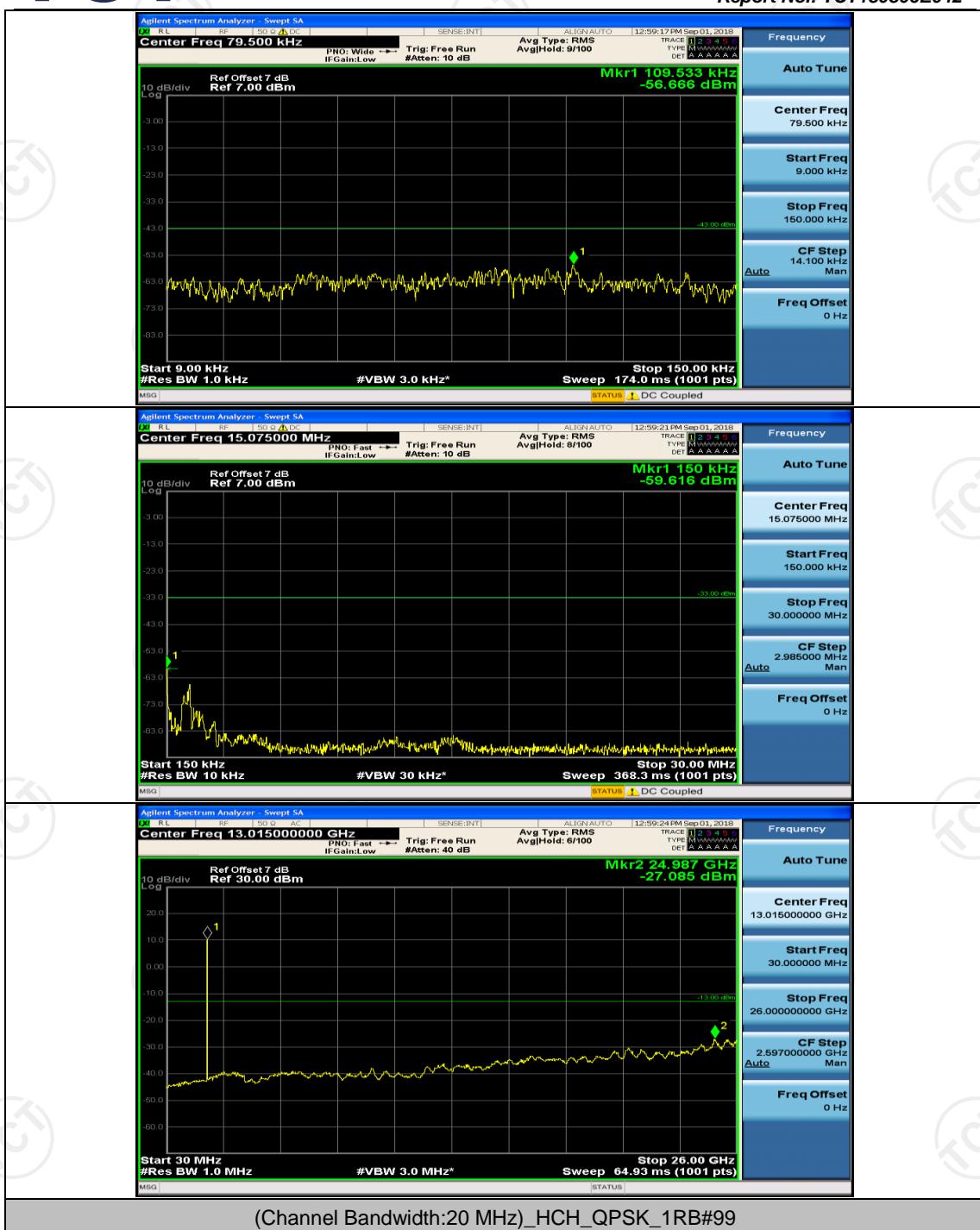


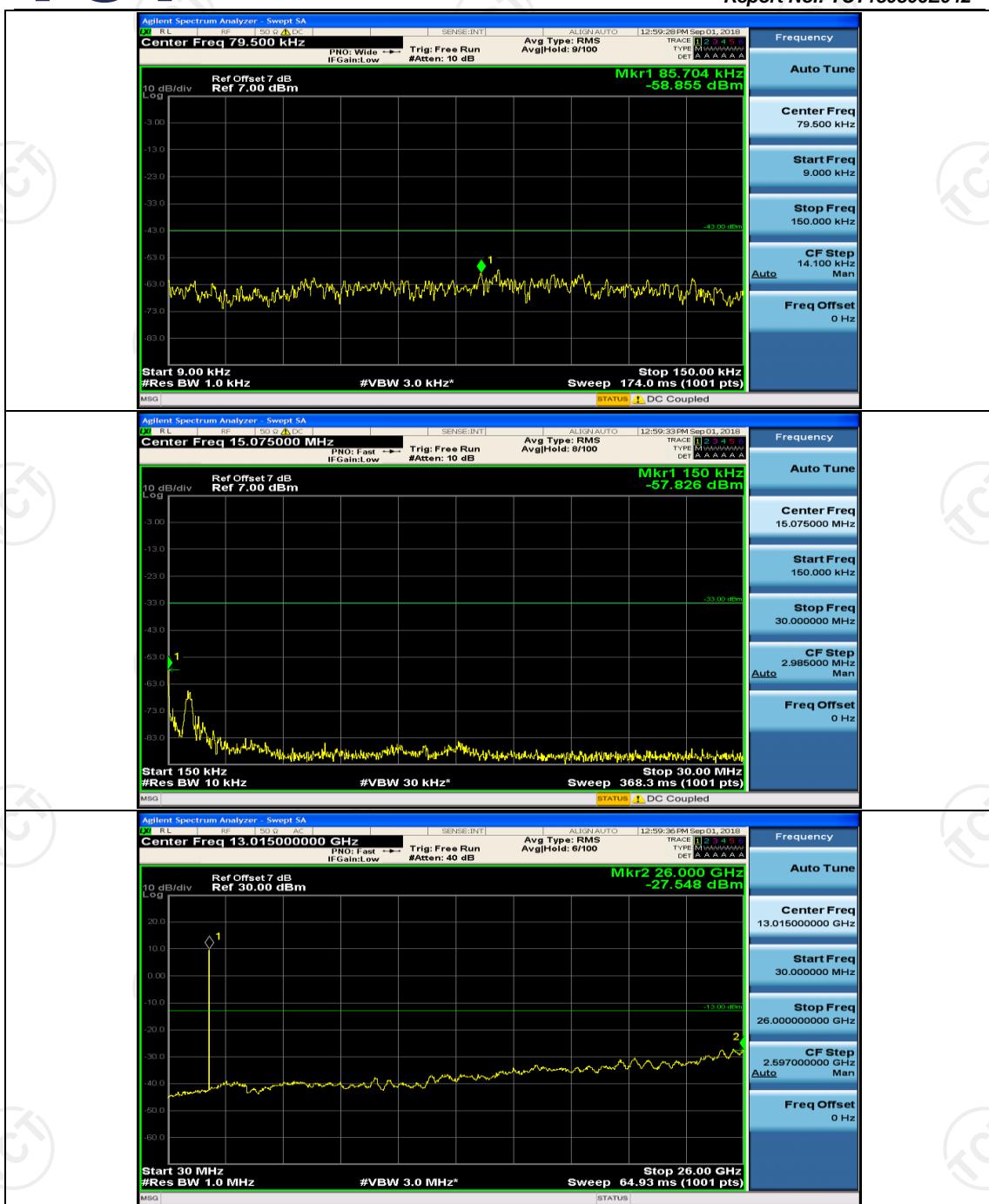


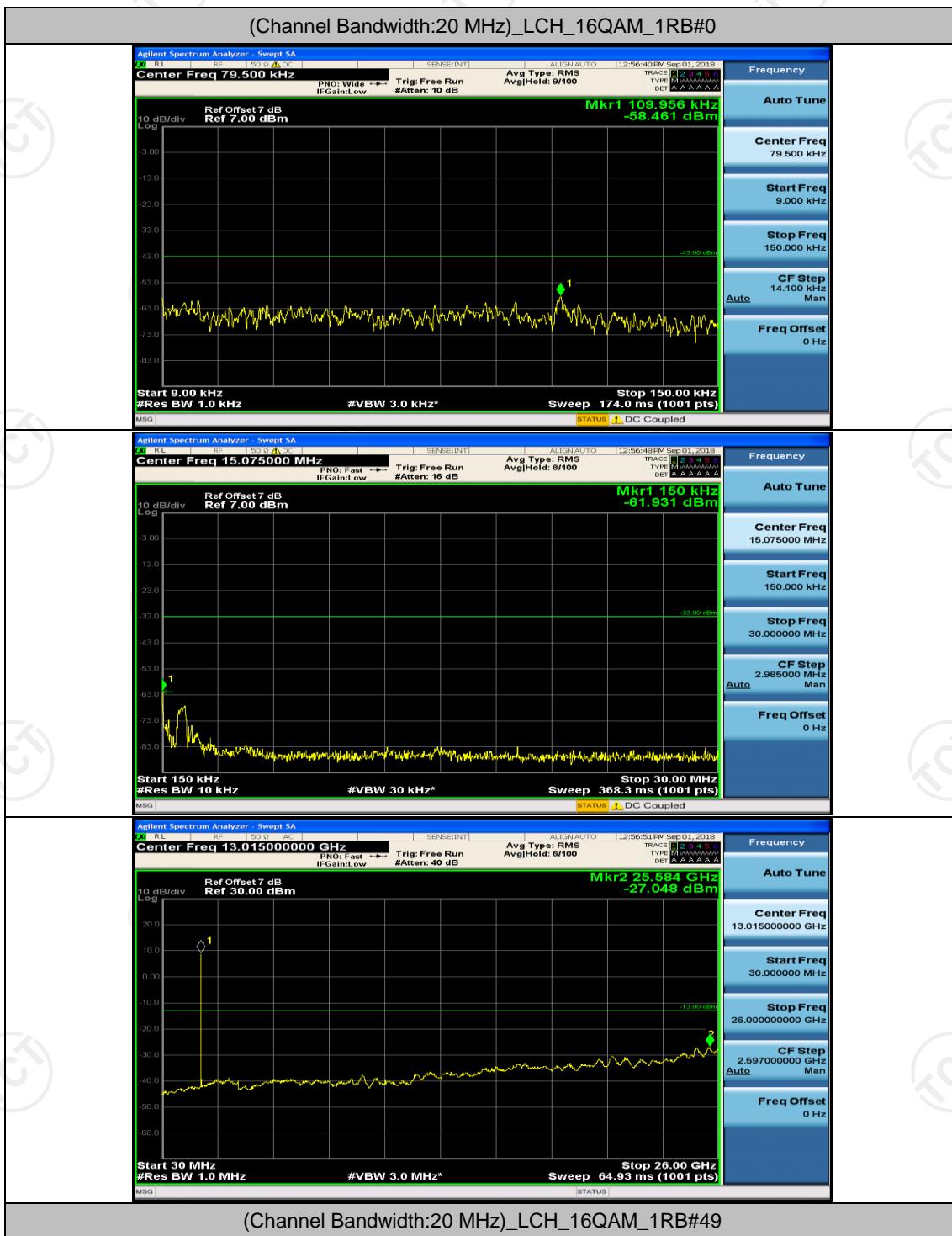


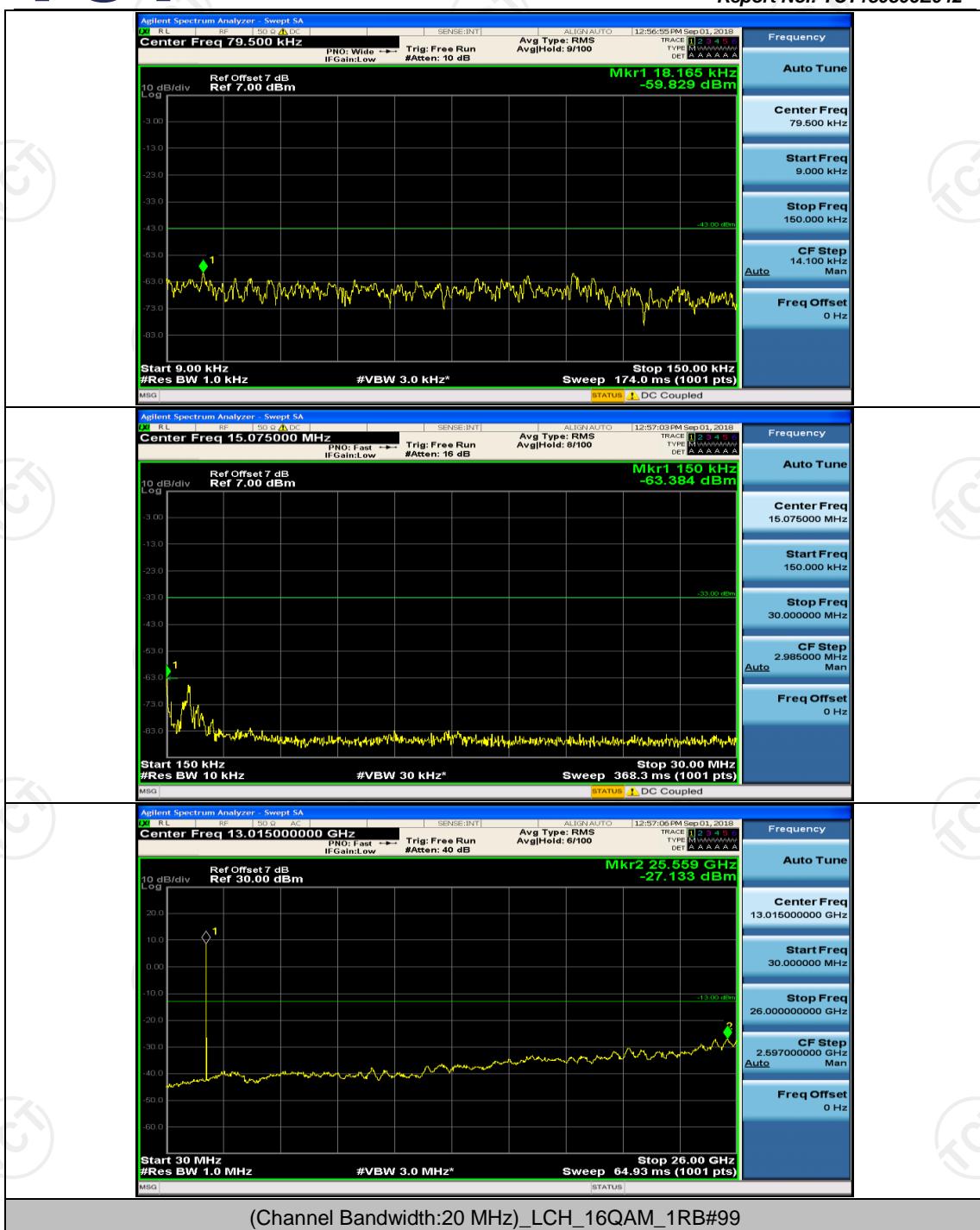


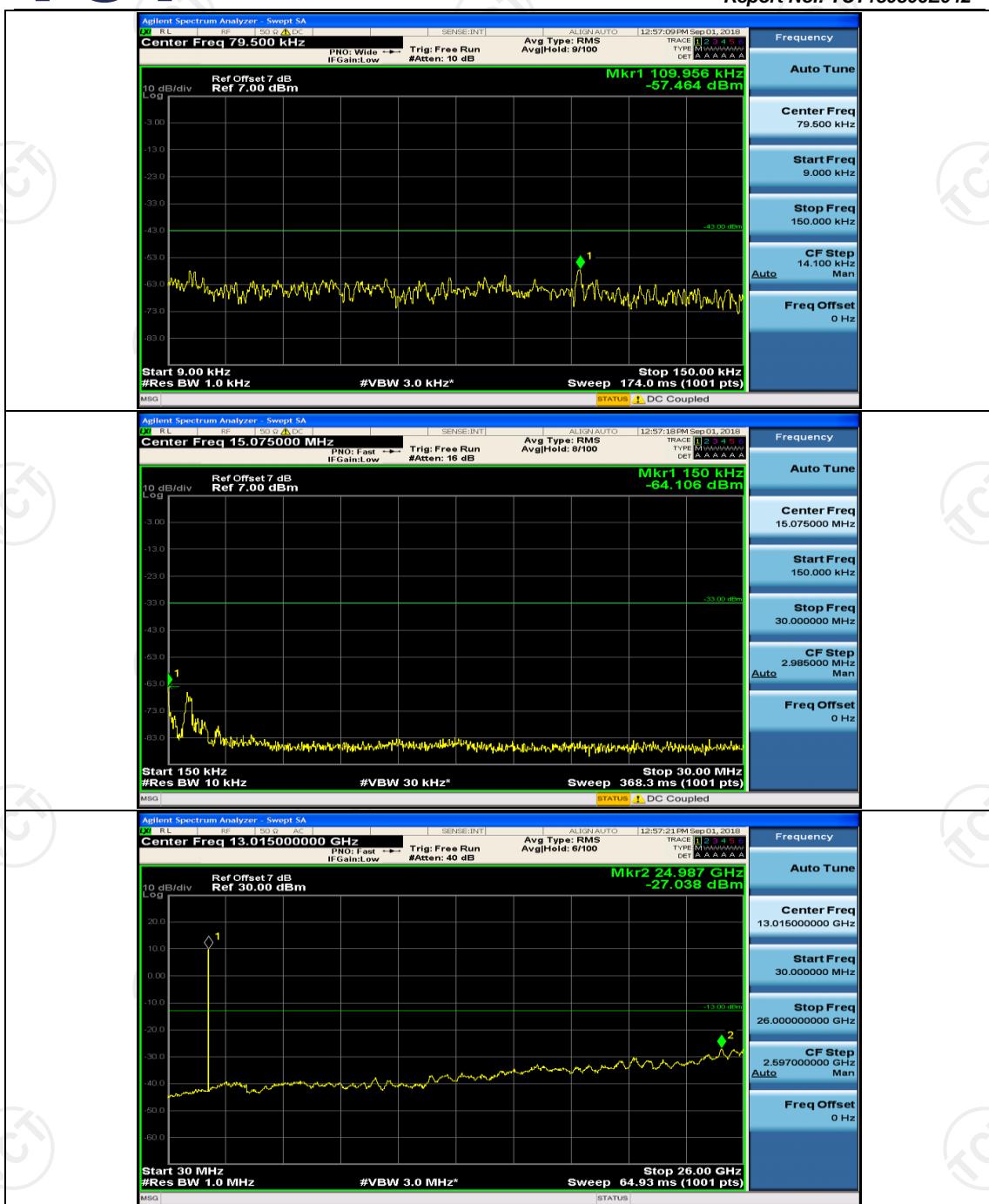


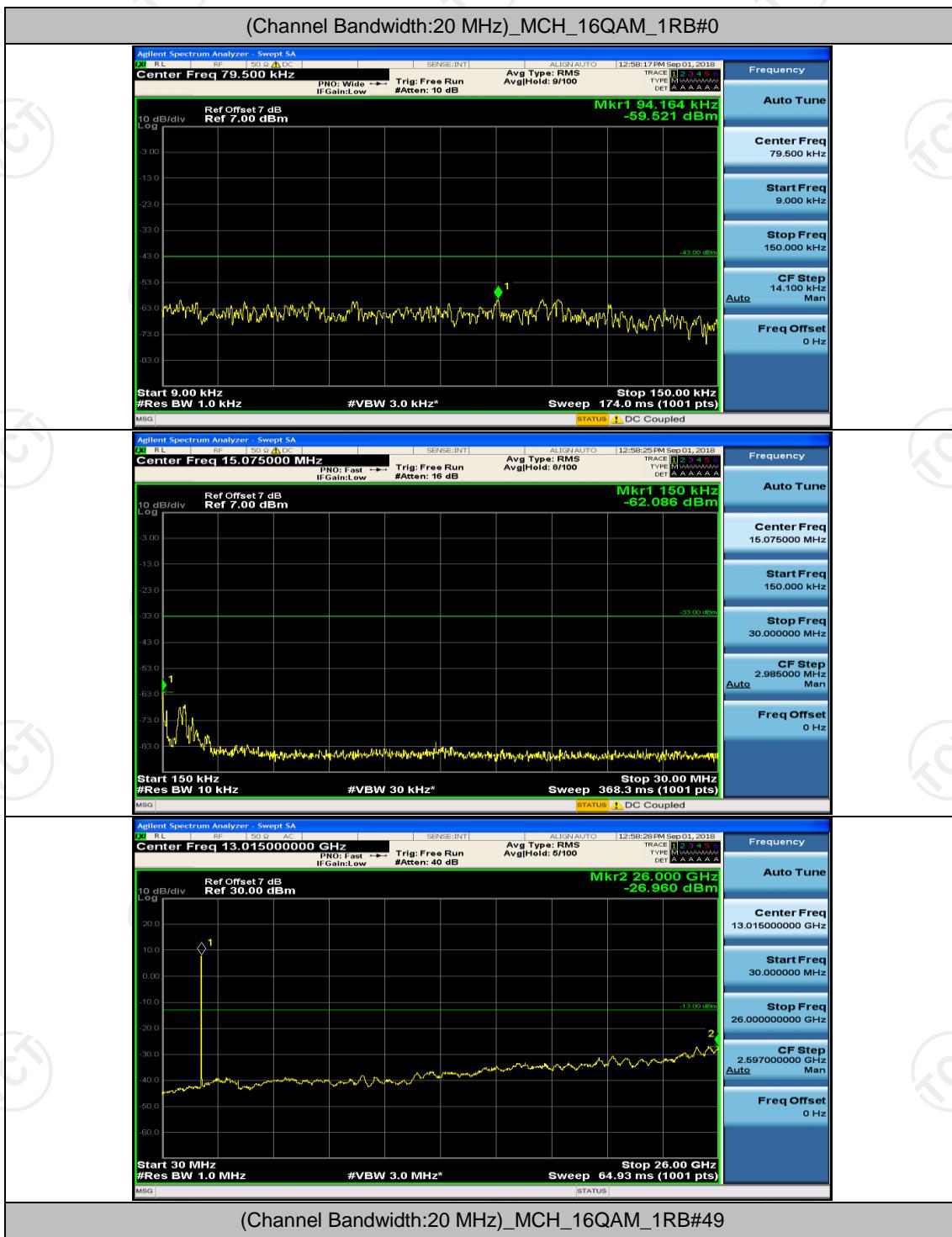


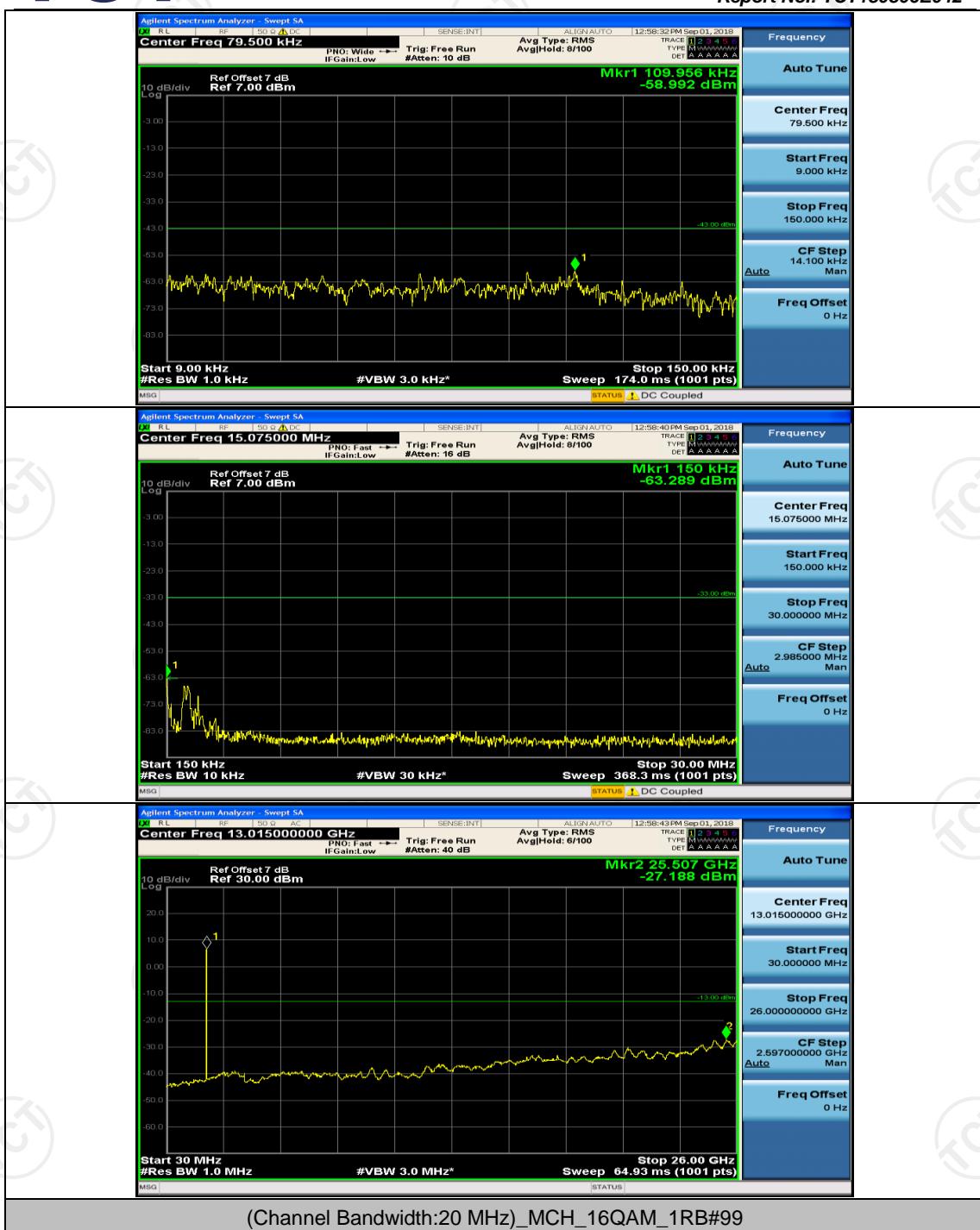


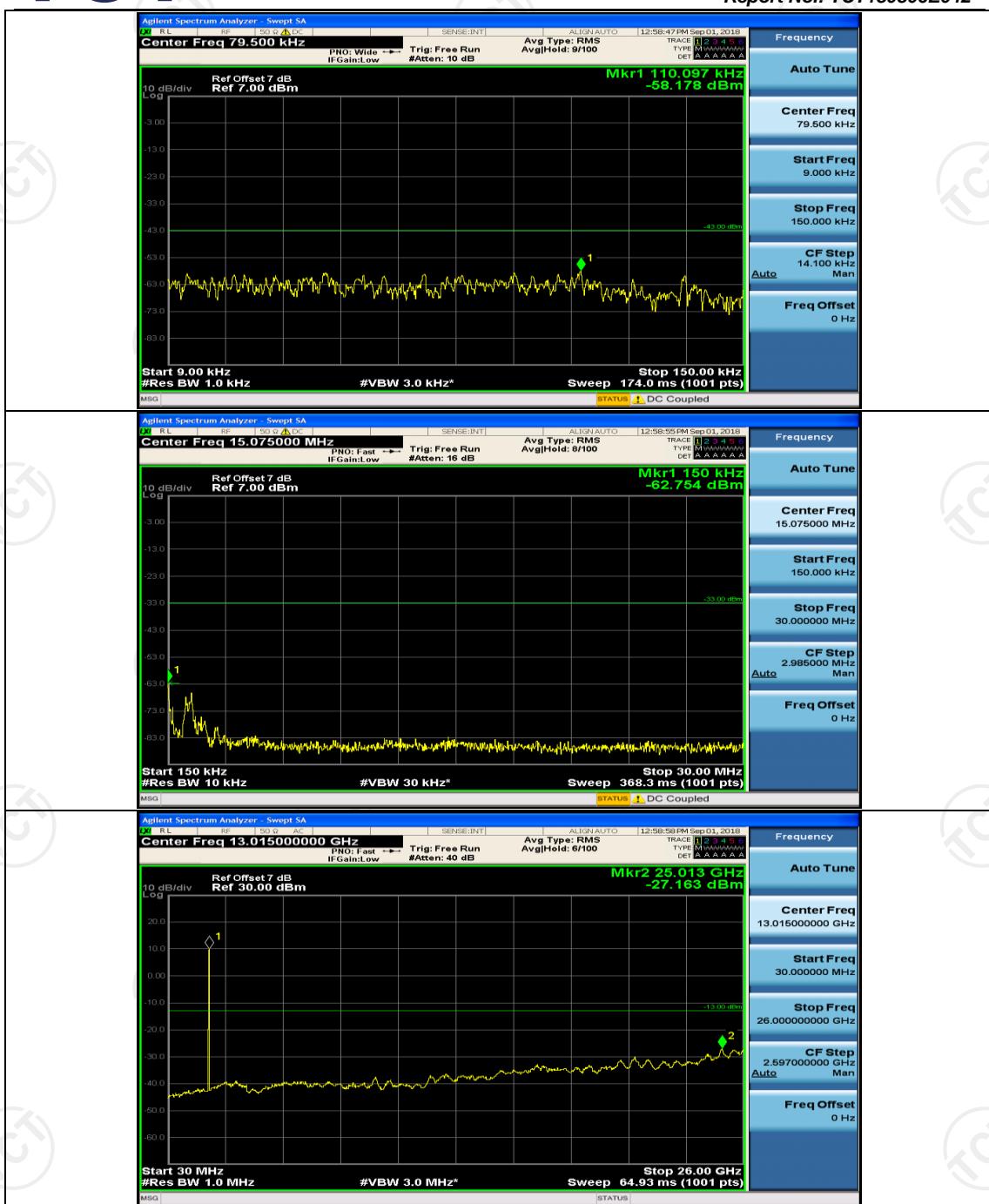


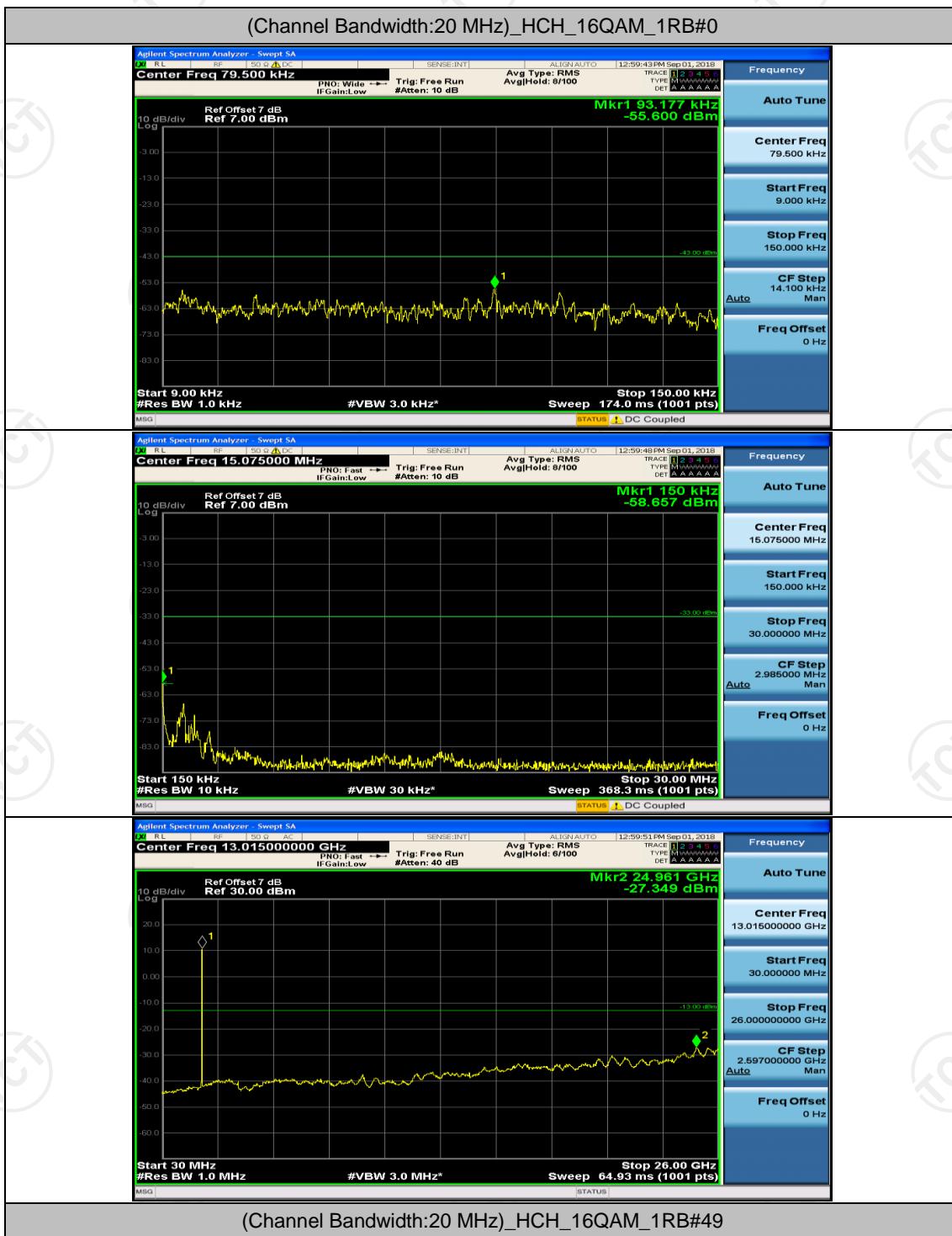


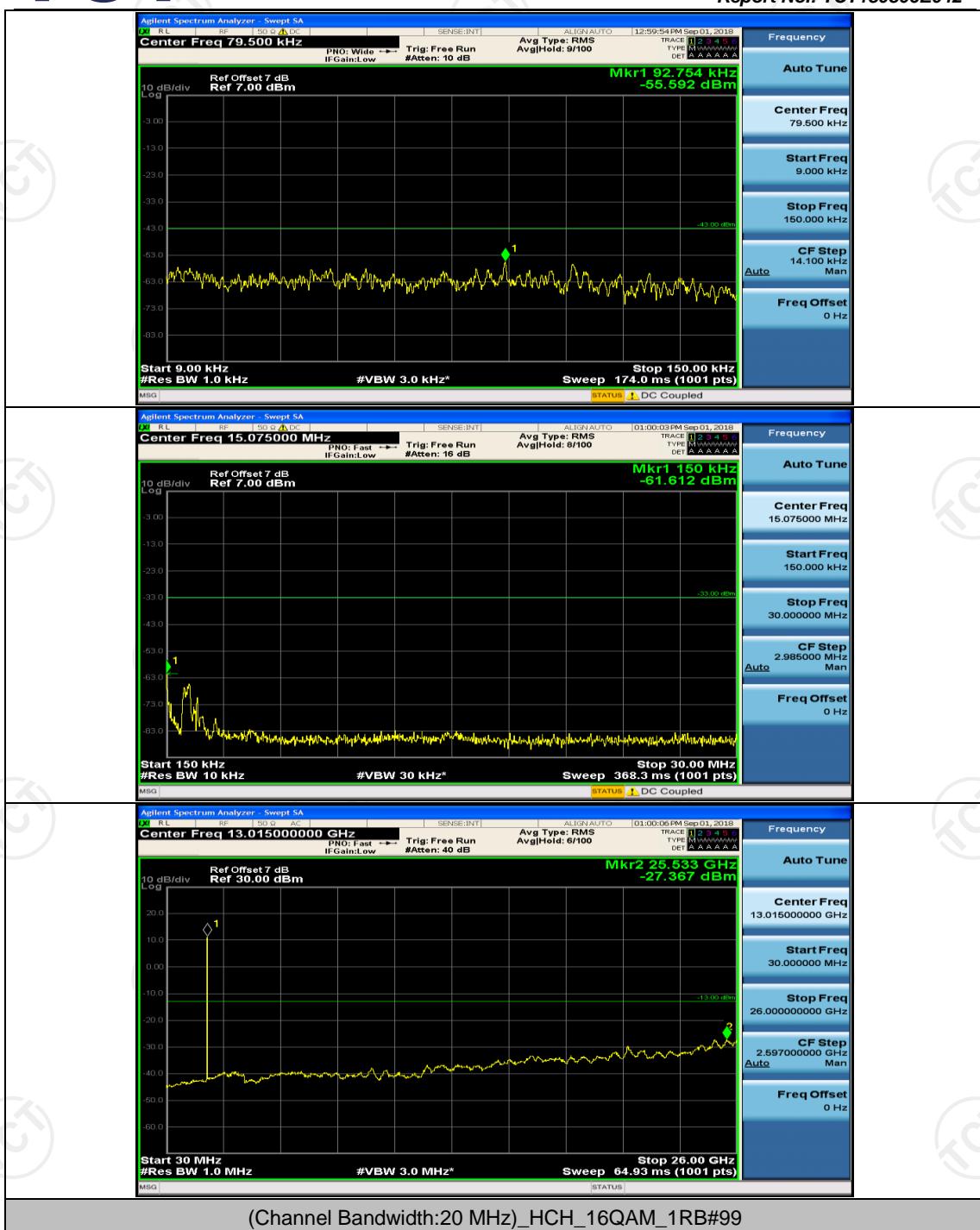


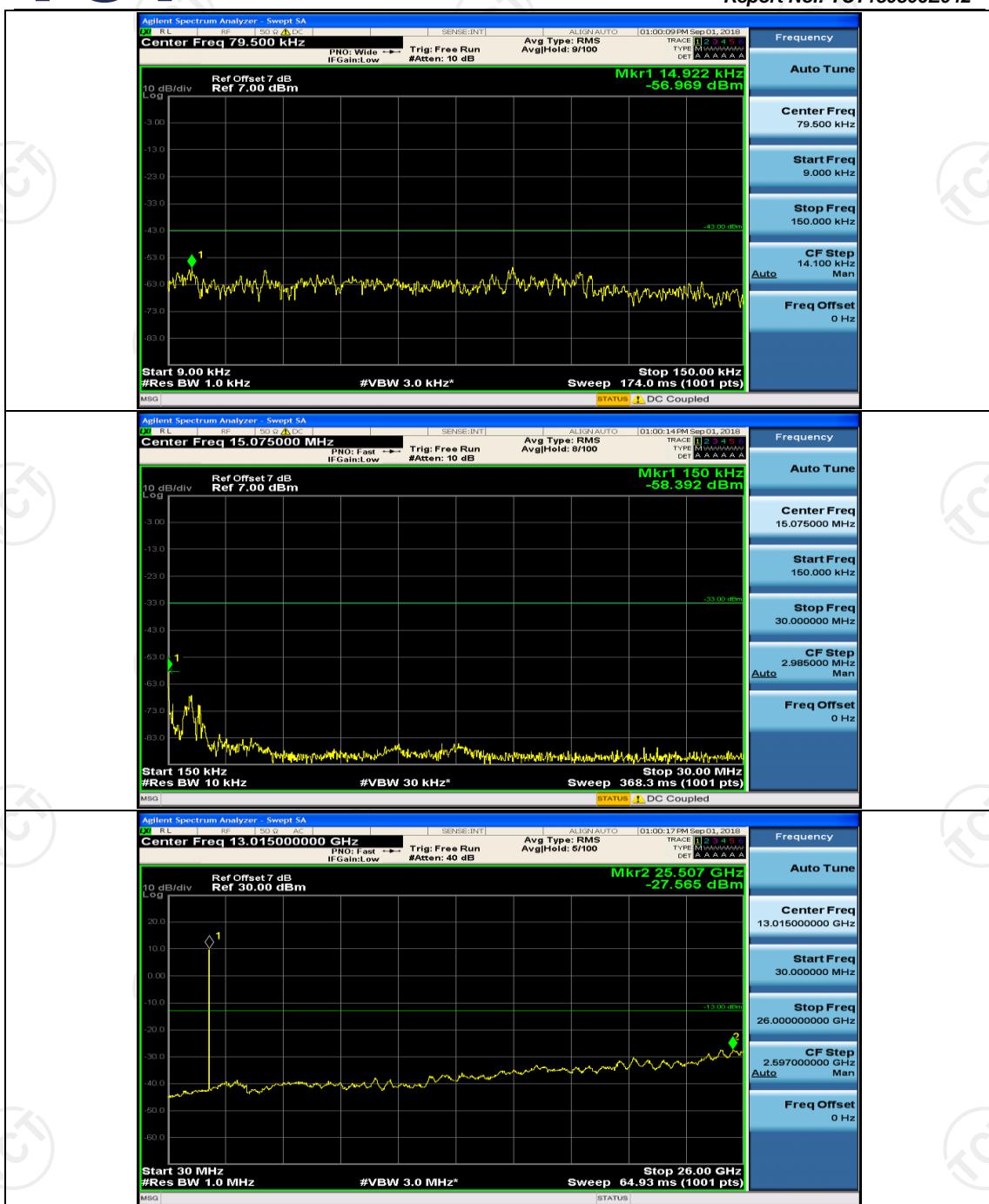












## Appendix F: Frequency Stability

### 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	10.5	25	-0.001144	± 2.5	PASS
		24	25	-0.000912	± 2.5	PASS
		32	25	-0.000595	± 2.5	PASS
	MCH	10.5	25	-0.001415	± 2.5	PASS
		24	25	-0.001476	± 2.5	PASS
		32	25	-0.001339	± 2.5	PASS
	HCH	10.5	25	0.000937	± 2.5	PASS
		24	25	0.000562	± 2.5	PASS
		32	25	0.000390	± 2.5	PASS
16QAM	LCH	10.5	25	-0.000008	± 2.5	PASS
		24	25	-0.000865	± 2.5	PASS
		32	25	-0.001004	± 2.5	PASS
	MCH	10.5	25	-0.001453	± 2.5	PASS
		24	25	-0.001088	± 2.5	PASS
		32	25	-0.001644	± 2.5	PASS
	HCH	10.5	25	0.000524	± 2.5	PASS
		24	25	0.001109	± 2.5	PASS
		32	25	0.000570	± 2.5	PASS
Temperature						
Modulation	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (ppm)	Limit (ppm)	Verdict
QPSK	LCH	24	-30	-0.000958	± 2.5	PASS
		24	-20	-0.000827	± 2.5	PASS
		24	-10	-0.000695	± 2.5	PASS
		24	0	-0.000827	± 2.5	PASS
		24	10	-0.001354	± 2.5	PASS
		24	20	-0.001105	± 2.5	PASS
		24	30	-0.000912	± 2.5	PASS
		24	40	-0.000325	± 2.5	PASS
		24	50	-0.001214	± 2.5	PASS
	MCH	24	-30	-0.001134	± 2.5	PASS
		24	-20	-0.001012	± 2.5	PASS
		24	-10	-0.001058	± 2.5	PASS
		24	0	-0.001385	± 2.5	PASS
		24	10	0.000442	± 2.5	PASS
		24	20	-0.001385	± 2.5	PASS
		24	30	-0.001240	± 2.5	PASS
		24	40	-0.001666	± 2.5	PASS

		24	50	-0.001339	$\pm 2.5$	PASS
HCH		24	-30	0.001117	$\pm 2.5$	PASS
		24	-20	0.000630	$\pm 2.5$	PASS
		24	-10	0.001102	$\pm 2.5$	PASS
		24	0	0.000472	$\pm 2.5$	PASS
		24	10	0.000442	$\pm 2.5$	PASS
		24	20	0.001124	$\pm 2.5$	PASS
		24	30	0.000877	$\pm 2.5$	PASS
		24	40	0.000539	$\pm 2.5$	PASS
		24	50	0.000907	$\pm 2.5$	PASS
LCH		24	-30	-0.000270	$\pm 2.5$	PASS
		24	-20	-0.000348	$\pm 2.5$	PASS
		24	-10	-0.000409	$\pm 2.5$	PASS
		24	0	-0.000719	$\pm 2.5$	PASS
		24	10	-0.001058	$\pm 2.5$	PASS
		24	20	-0.000031	$\pm 2.5$	PASS
		24	30	0.000309	$\pm 2.5$	PASS
		24	40	0.000209	$\pm 2.5$	PASS
		24	50	-0.000425	$\pm 2.5$	PASS
MCH		24	-30	-0.000898	$\pm 2.5$	PASS
		24	-20	-0.001217	$\pm 2.5$	PASS
		24	-10	-0.001453	$\pm 2.5$	PASS
		24	0	-0.002184	$\pm 2.5$	PASS
		24	10	-0.000692	$\pm 2.5$	PASS
		24	20	-0.002024	$\pm 2.5$	PASS
		24	30	-0.001438	$\pm 2.5$	PASS
		24	40	-0.002138	$\pm 2.5$	PASS
		24	50	-0.001362	$\pm 2.5$	PASS
HCH		24	-30	0.000382	$\pm 2.5$	PASS
		24	-20	0.000780	$\pm 2.5$	PASS
		24	-10	0.001289	$\pm 2.5$	PASS
		24	0	0.000682	$\pm 2.5$	PASS
		24	10	-0.000810	$\pm 2.5$	PASS
		24	20	-0.000120	$\pm 2.5$	PASS
		24	30	0.000435	$\pm 2.5$	PASS
		24	40	0.000914	$\pm 2.5$	PASS
		24	50	0.000689	$\pm 2.5$	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>24~26°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>
	<b>Polarization</b>	<b>Level (dBm)</b>		
3701.4	Vertical	-36.53	-13.00	PASS
5552.1	V	-44.24		
-	V	-		
3701.4	Horizontal	-37.20		
5552.1	H	-47.72		
-	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>
	<b>Polarization</b>	<b>Level (dBm)</b>		
3760	Vertical	-36.97		PASS
5640	V	-47.31		
-	V	-		
3760	Horizontal	-35.67		
5640	H	-46.80		
-	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>
	<b>Polarization</b>	<b>Level (dBm)</b>		
3818.6	Vertical	-35.63		PASS
5727.9	V	-46.69		
-	V	-		
3818.6	Horizontal	-36.35		
5727.9	H	-47.79		
-	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.			
<b>Frequency (MHz)</b>	<b>Spurious Emission</b>		<b>Limit (dBm)</b>	<b>Result</b>
	<b>Polarization</b>	<b>Level (dBm)</b>		
3701.4	Vertical	-35.54	-13.00	PASS
5552.1	V	-45.87		
-	V	-		
3701.4	Horizontal	-34.53		
5552.1	H	-46.97		
-	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.			
<b>Frequency (MHz)</b>	<b>Spurious Emission</b>		<b>Limit (dBm)</b>	<b>Result</b>
	<b>Polarization</b>	<b>Level (dBm)</b>		
3760	Vertical	-35.08	-13.00	PASS
5640	V	-42.45		
-	V	-		
3760	Horizontal	-34.47		
5640	H	-44.36		
-	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.			
<b>Frequency (MHz)</b>	<b>Spurious Emission</b>		<b>Limit (dBm)</b>	<b>Result</b>
	<b>Polarization</b>	<b>Level (dBm)</b>		
3818.6	Vertical	-34.83	-13.00	PASS
5727.9	V	-43.67		
-	V	-		
3818.6	Horizontal	-35.15		
5727.9	H	-45.94		
-	H	-		

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