

# Appendix -

## Test Data and Result for report

**GZCR250400053601 (B)**

(For UHF-1: 406.1-420MHz)



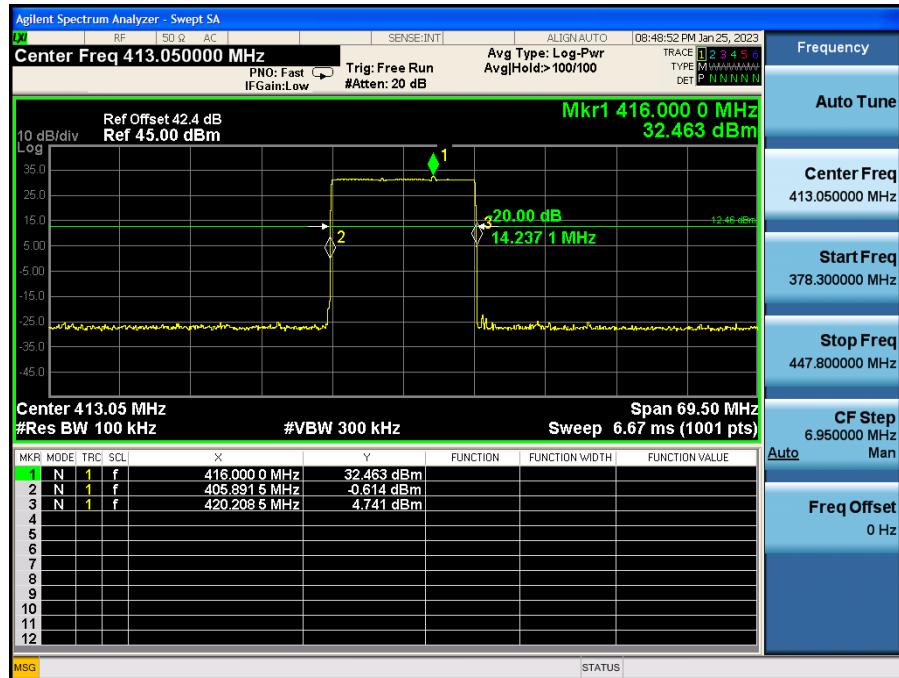
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## 1 Out-of-band rejection

### Out-of-band rejection

DL



1. The peak of the frequency response  $f_0$  is 416.0MHz.
2. The frequency point  $f_0$  with the highest power level fall in the CMRS band, EUT is compiled the KDB 935210 D05 Signal Booster Measurements v01r04 Out-of-band rejection verification test requirement.
3. AGC threshold level was measured as below:

Test Path	Test Signal	Test Channel	AGC threshold level
DL	FM	MCH	-58.75dBm
	DMR	MCH	-58.75dBm
	C4FM	MCH	-58.70dBm
	H-DQPSK	MCH	-58.70dBm
	TETRA	MCH	-58.80dBm

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## 2 Input-versus-output signal comparison

Occupied Bandwidth				
Test Path	Test Signal	Test Channel	Signal Level	Verdict
DL	FM	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS
	DMR	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS
	C4FM	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS
	H-DQPSK	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS

## Remark:

Compare the spectral plot of the input signal to the output signal affirm that there is no change in the occupied bandwidth of the retransmitted signals. The test result complies with the requirement.

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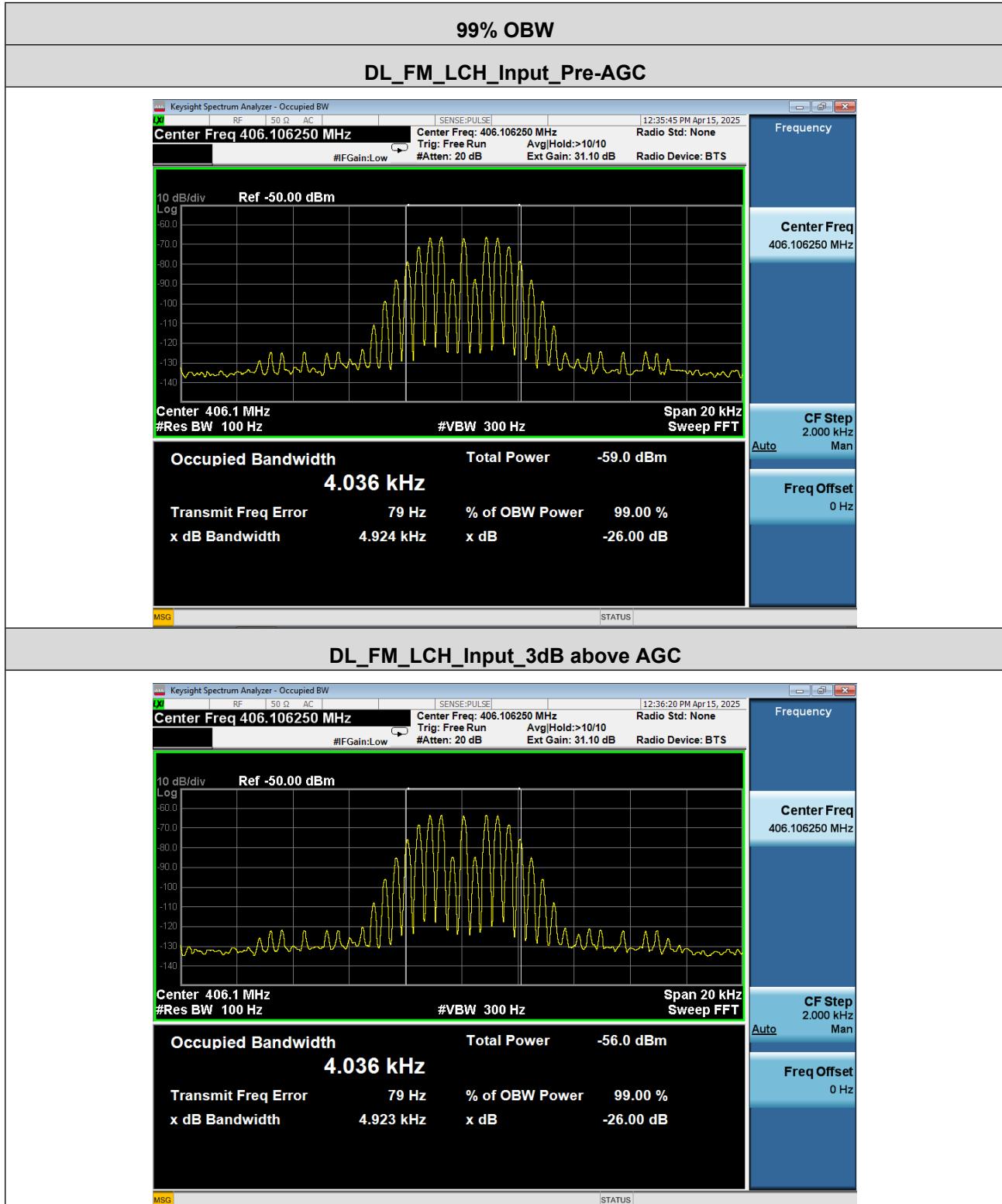
Occupied Bandwidth				
Test Path	Test Signal	Test Channel	Signal Level	Verdict
DL	TETRA	LCH	Pre-AGC	PASS
			3dB above AGC	PASS
		MCH	Pre-AGC	PASS
			3dB above AGC	PASS
		HCH	Pre-AGC	PASS
			3dB above AGC	PASS

Remark:  
Compare the spectral plot of the input signal to the output signal affirm that there is no change in the occupied bandwidth of the retransmitted signals. The test result complies with the requirement.



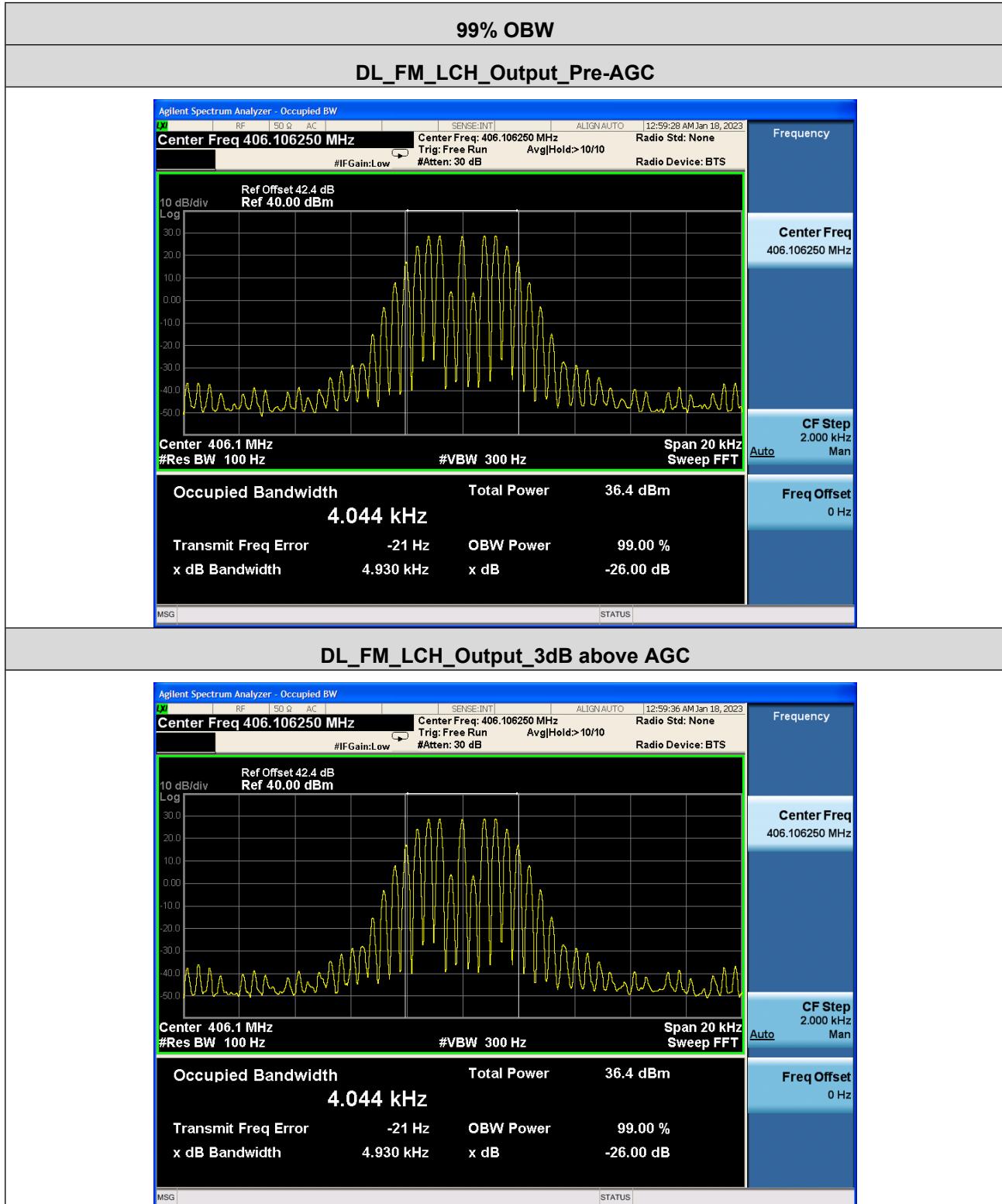
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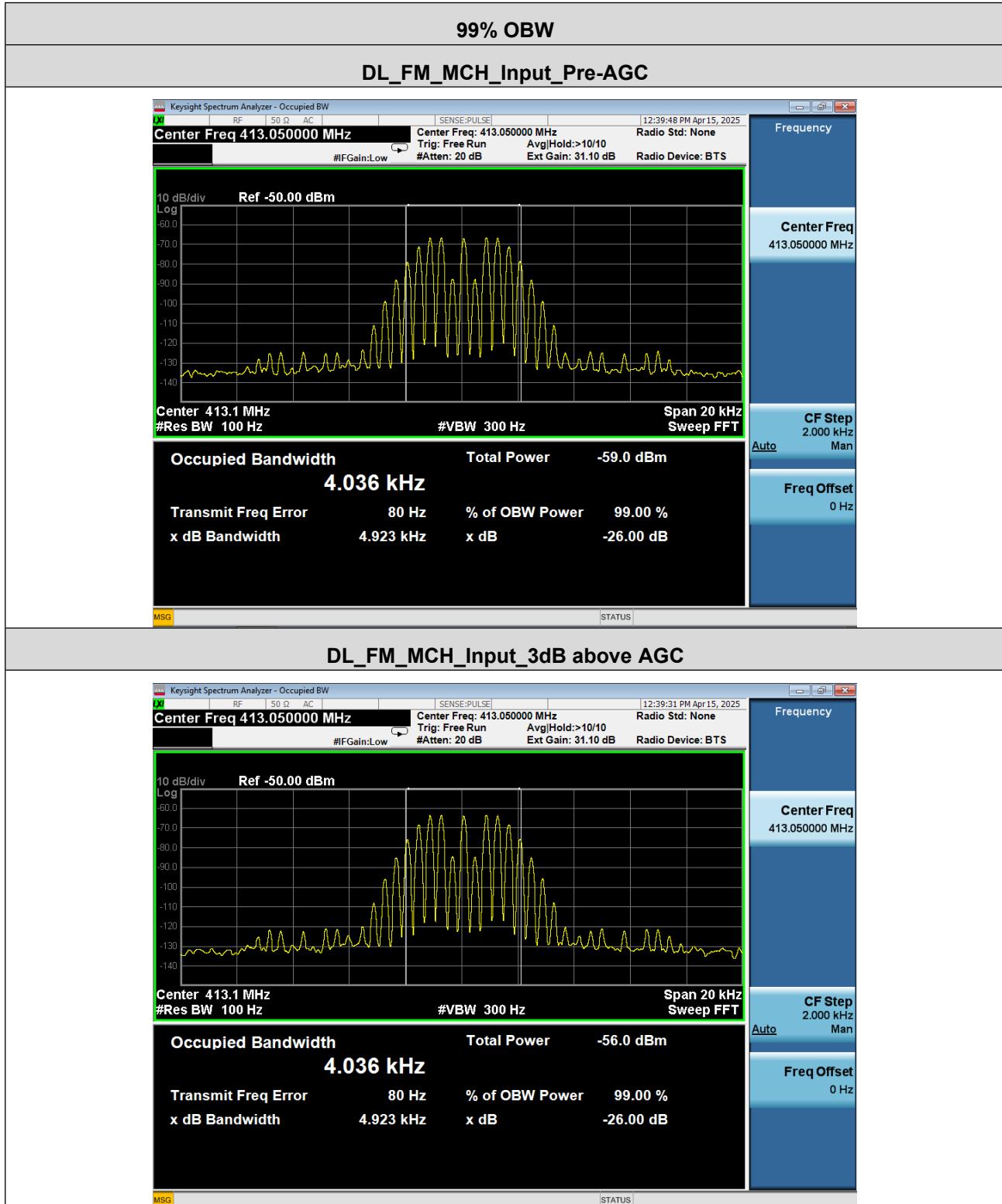
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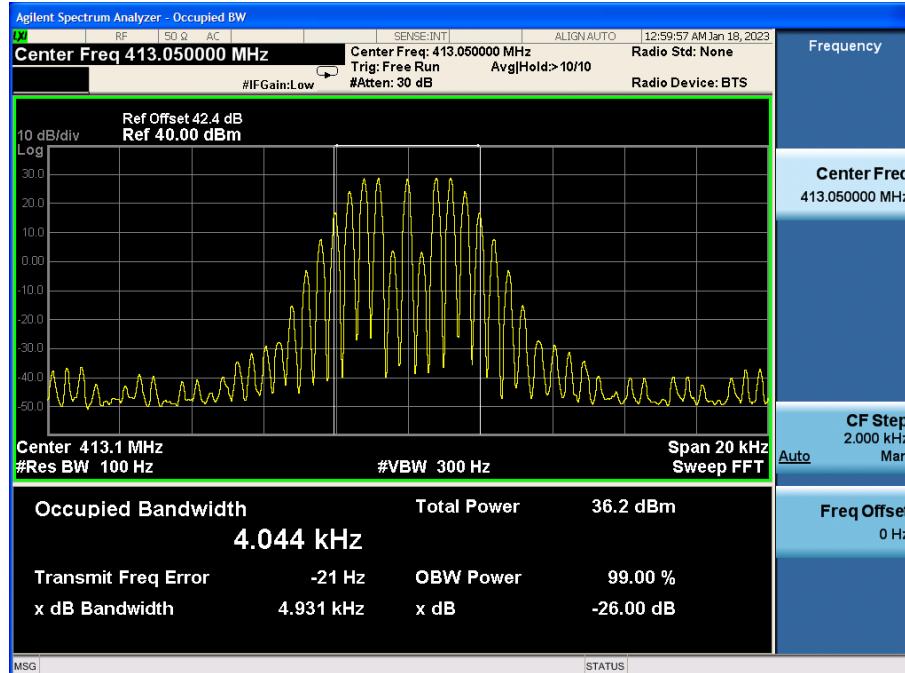
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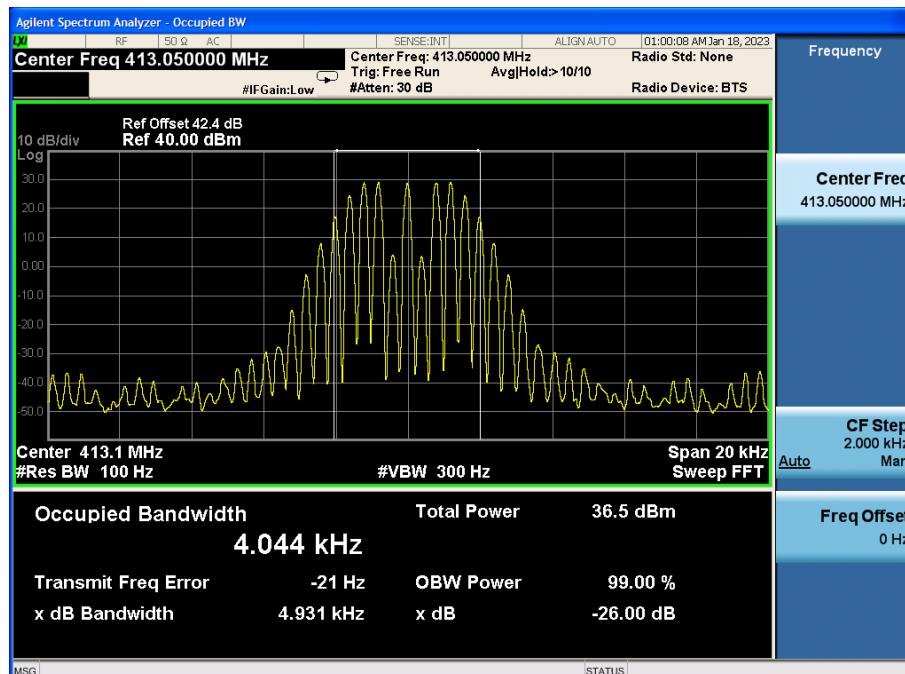


99% OBW

## DL\_FM\_MCH\_Output\_Pre-AGC



## DL\_FM\_MCH\_Output\_3dB above AGC



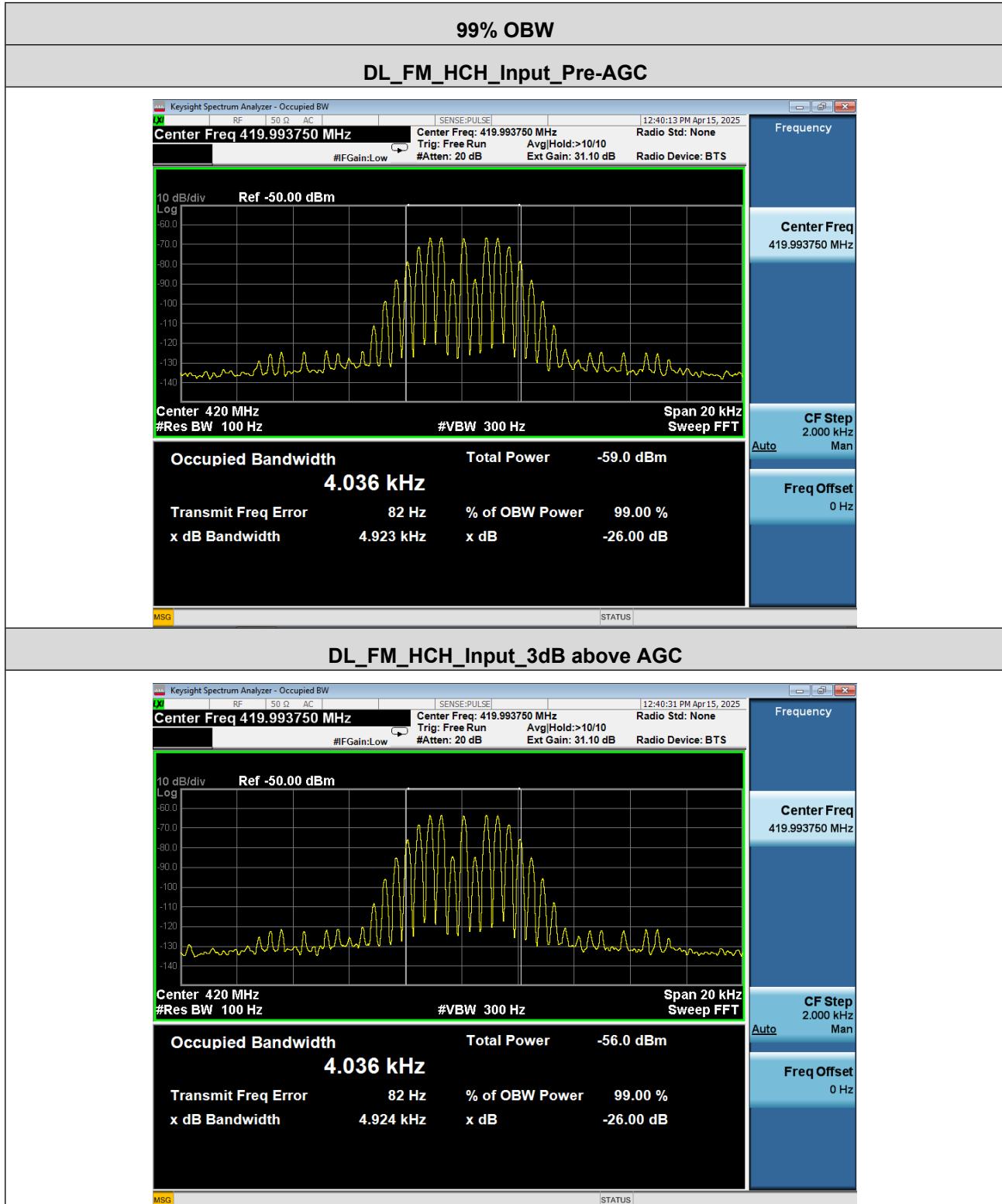
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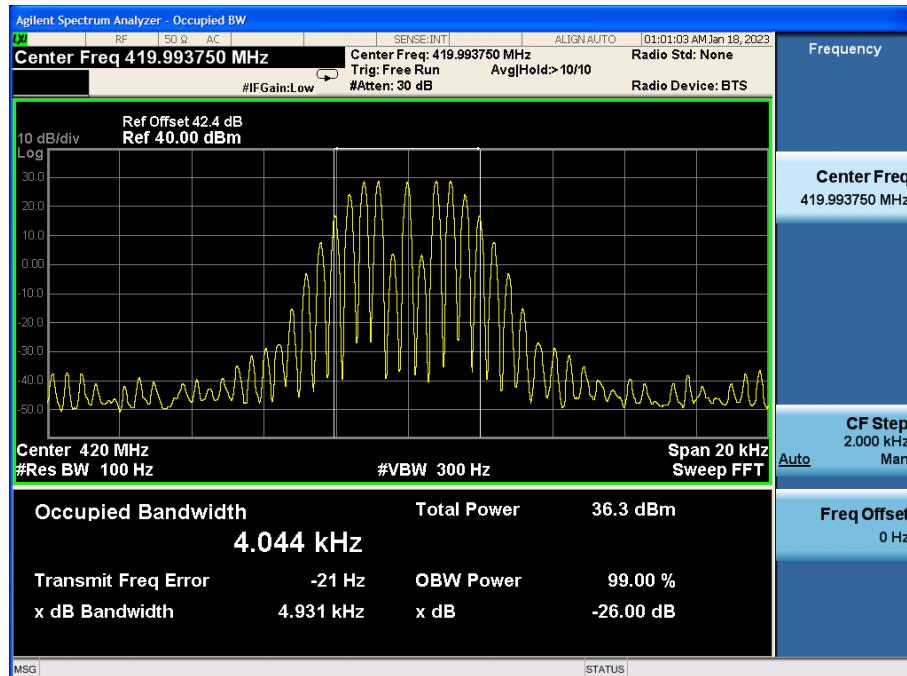
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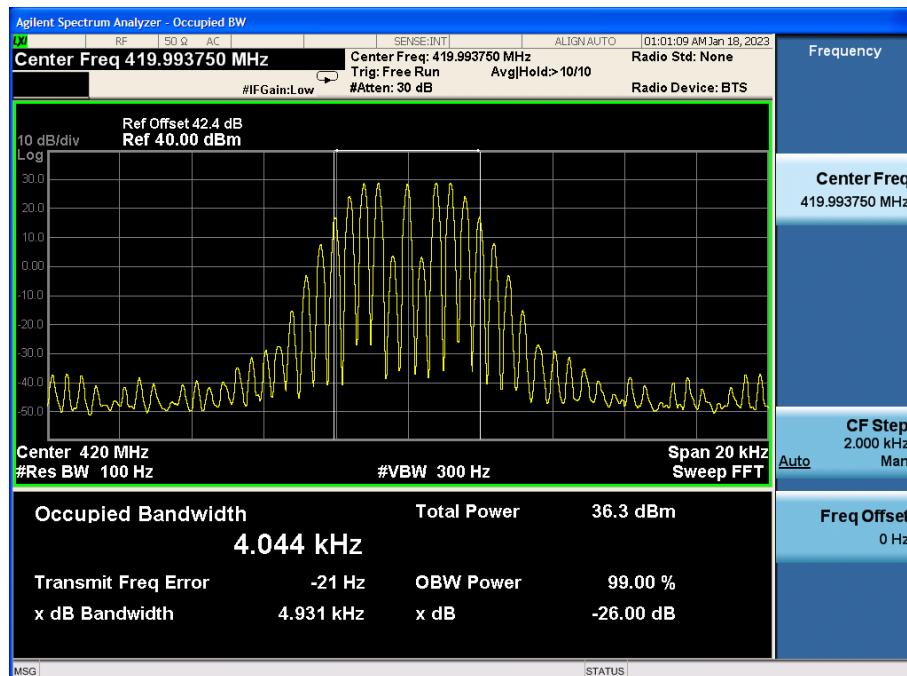


99% OBW

## DL\_FM\_HCH\_Output\_Pre-AGC



## DL\_FM\_HCH\_Output\_3dB above AGC



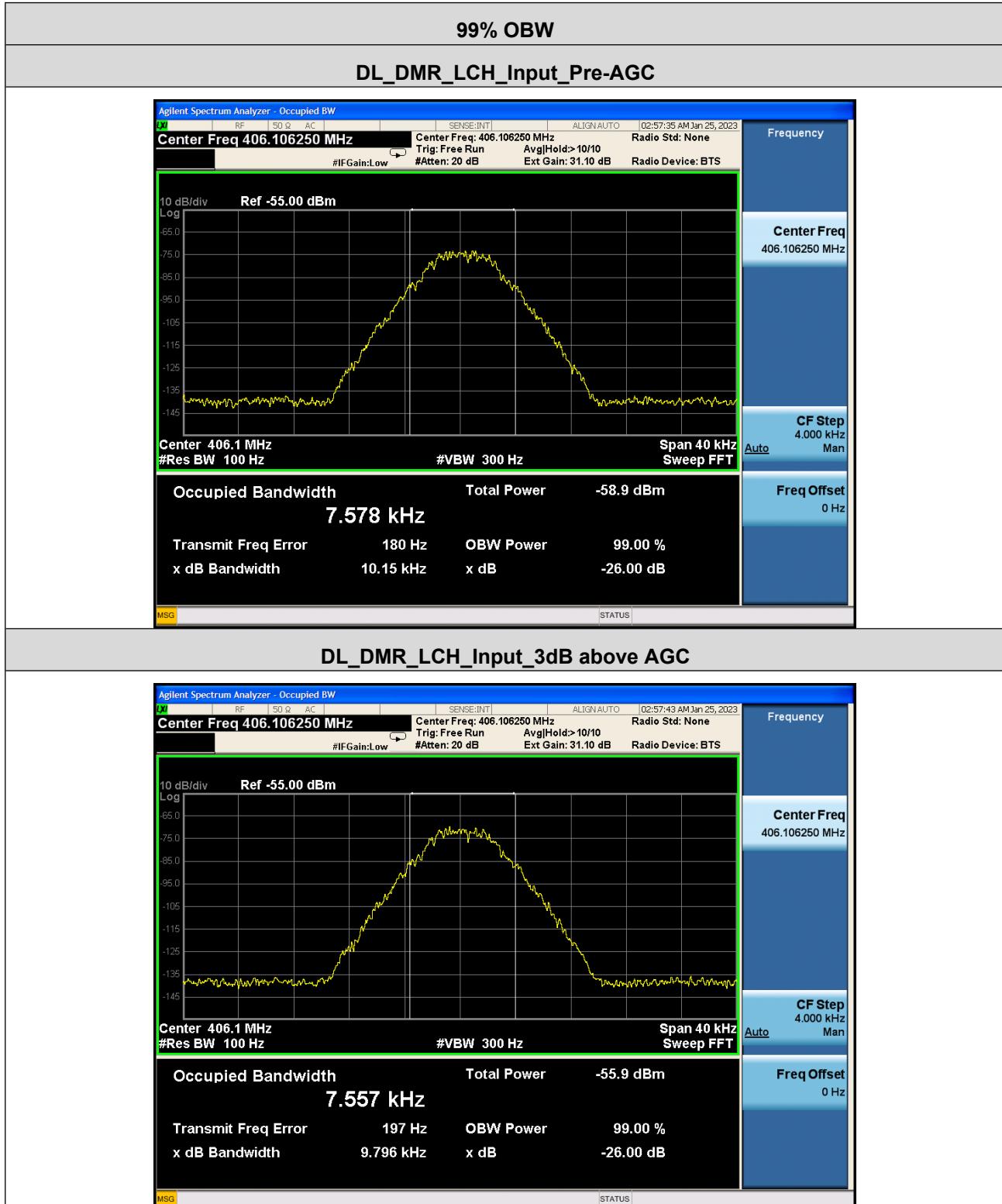
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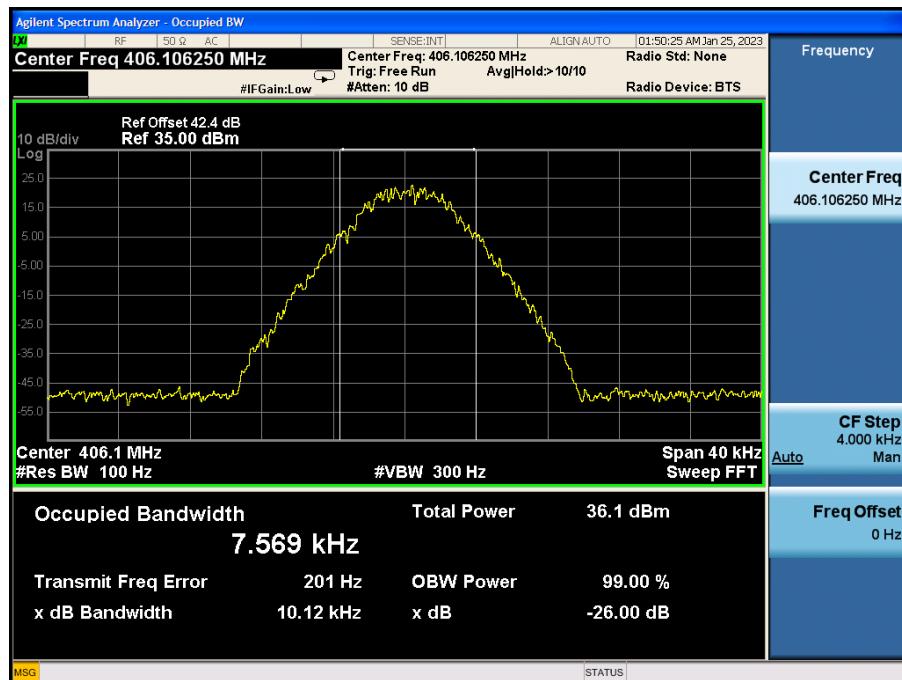
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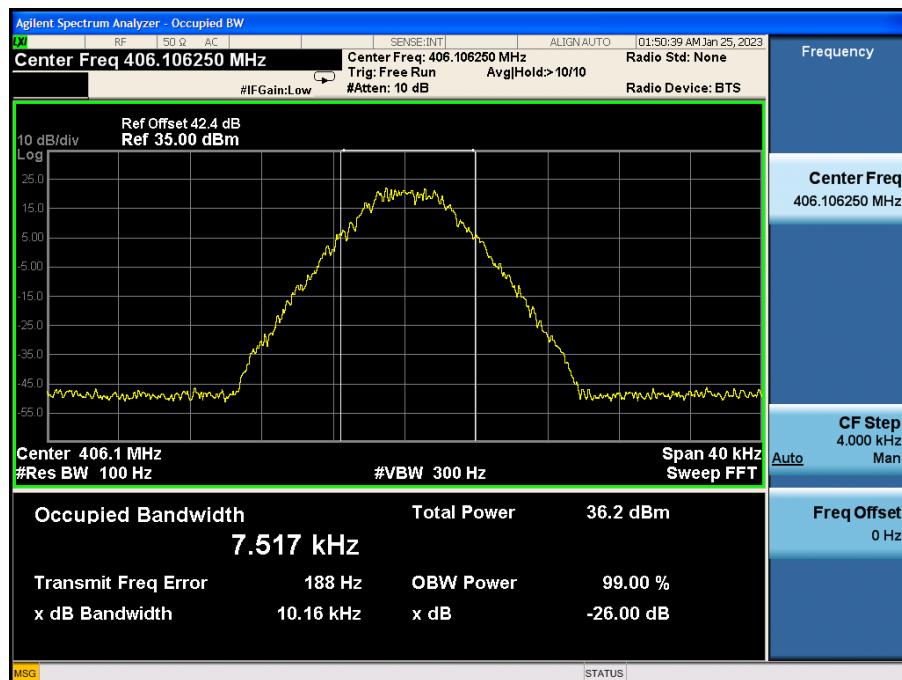


99% OBW

## DL\_DMR\_LCH\_Output\_Pre-AGC



## DL\_DMR\_LCH\_Output\_3dB above AGC



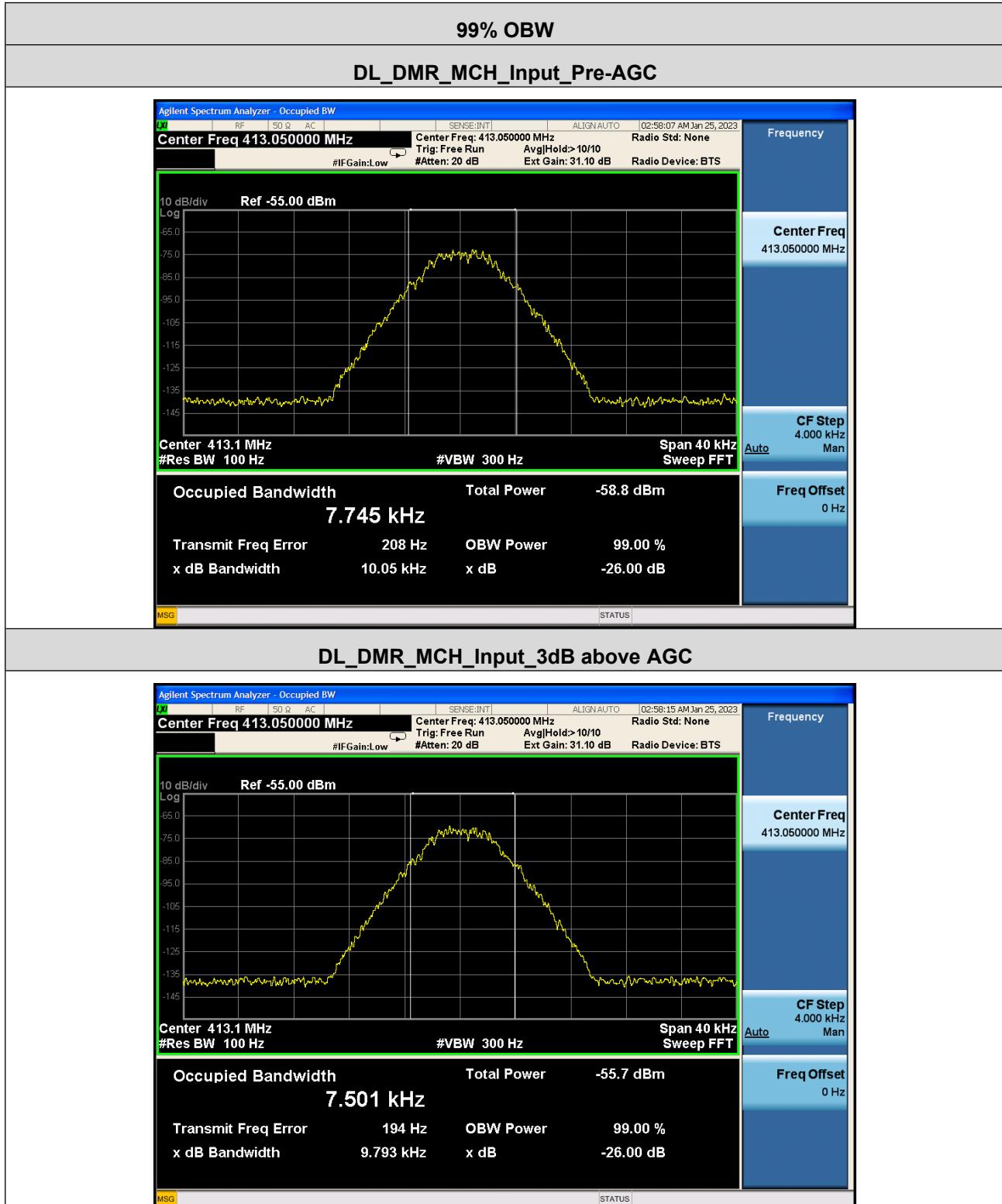
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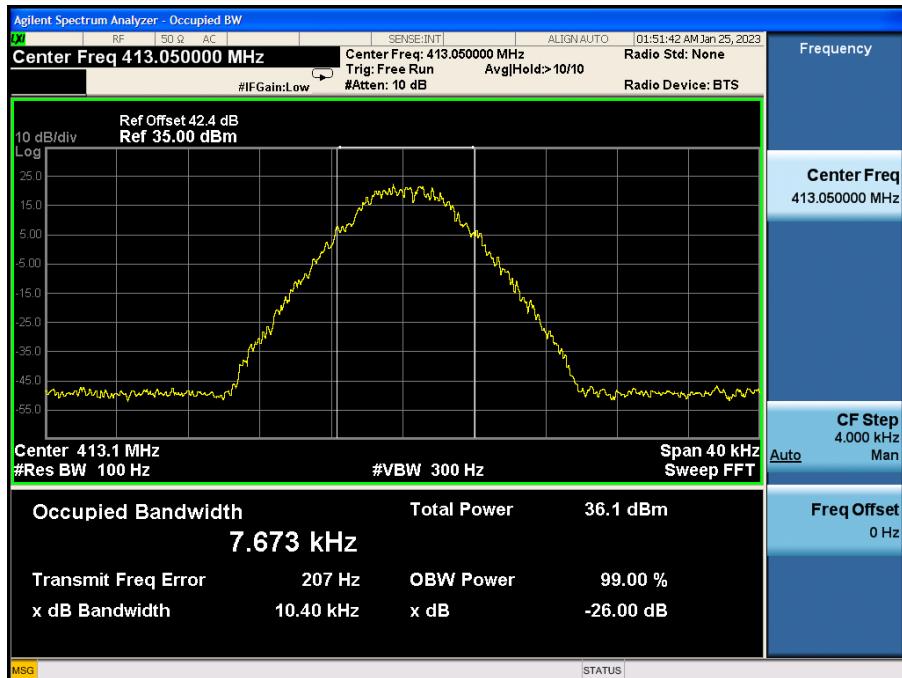
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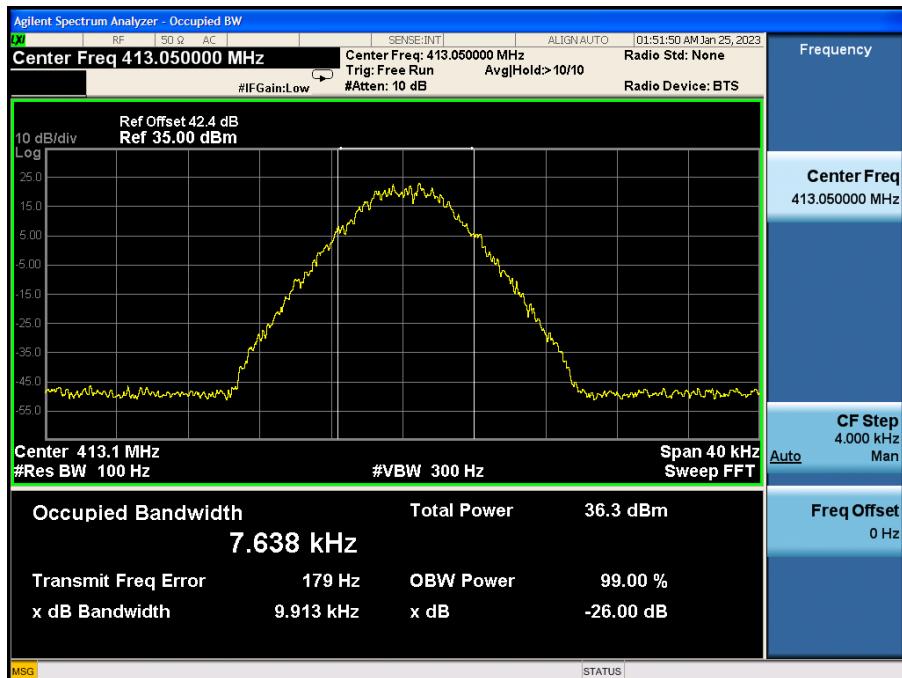


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## DL\_DMR\_MCH\_Output\_Pre-AGC



## DL\_DMR\_MCH\_Output\_3dB above AGC



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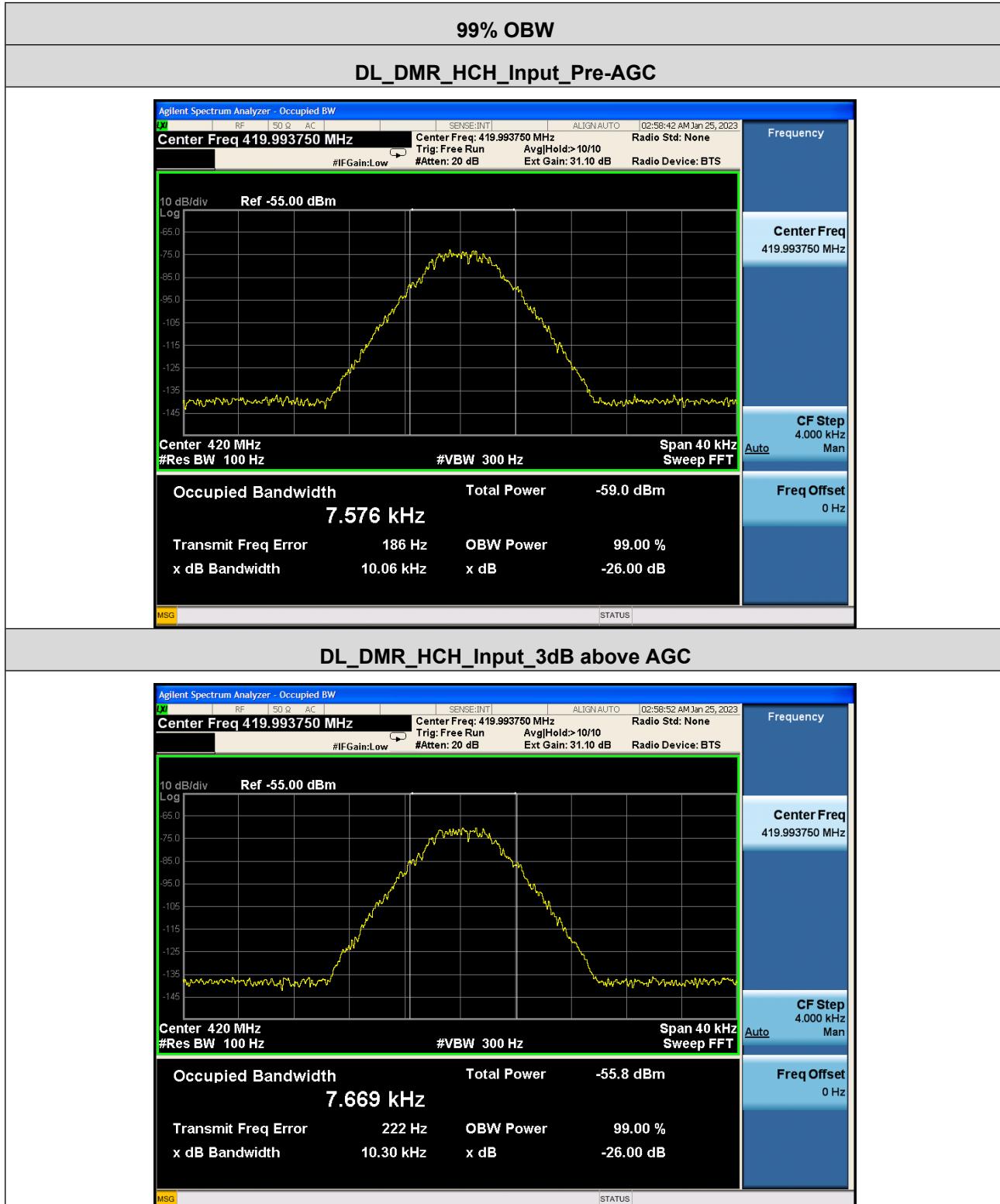
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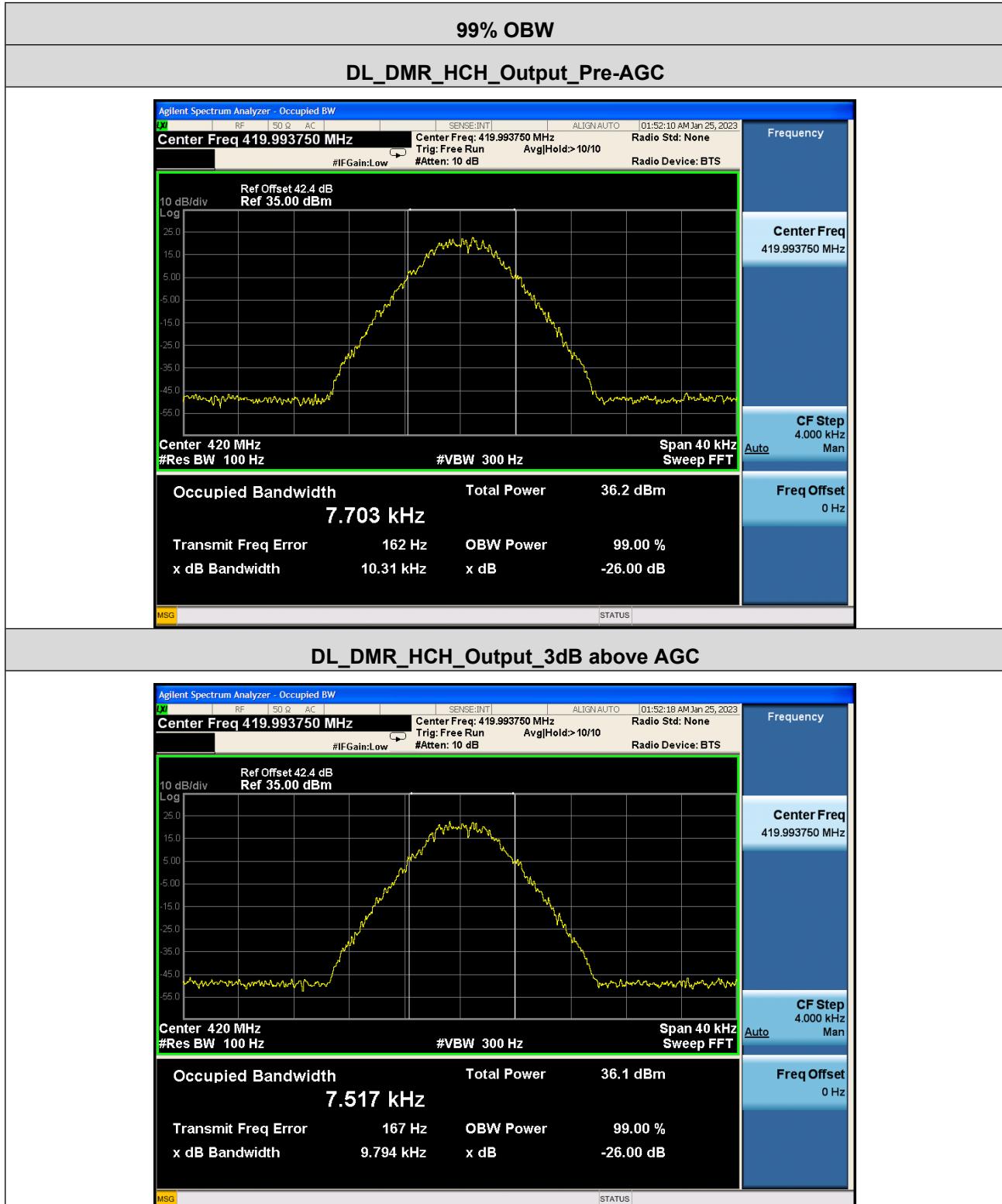
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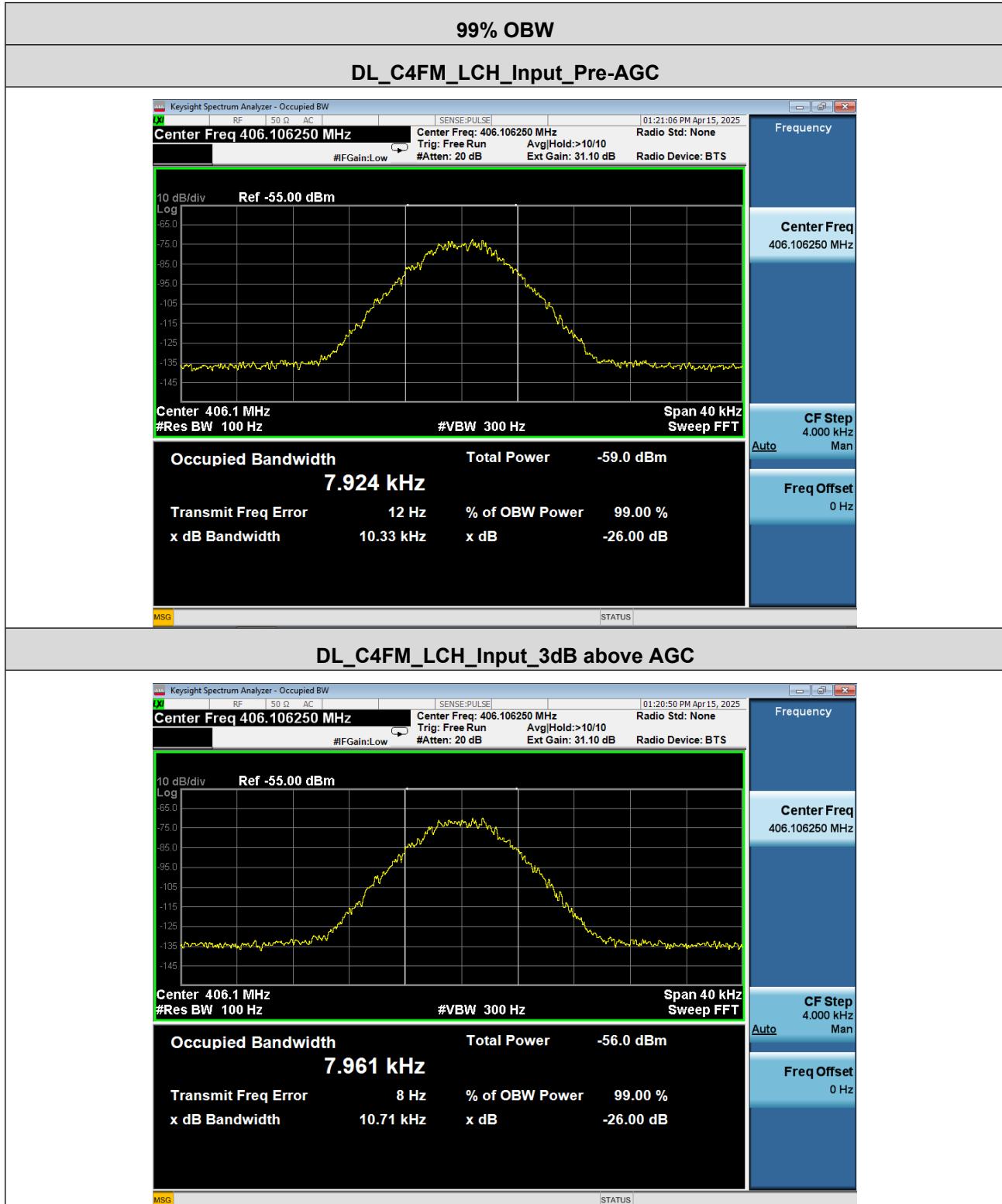
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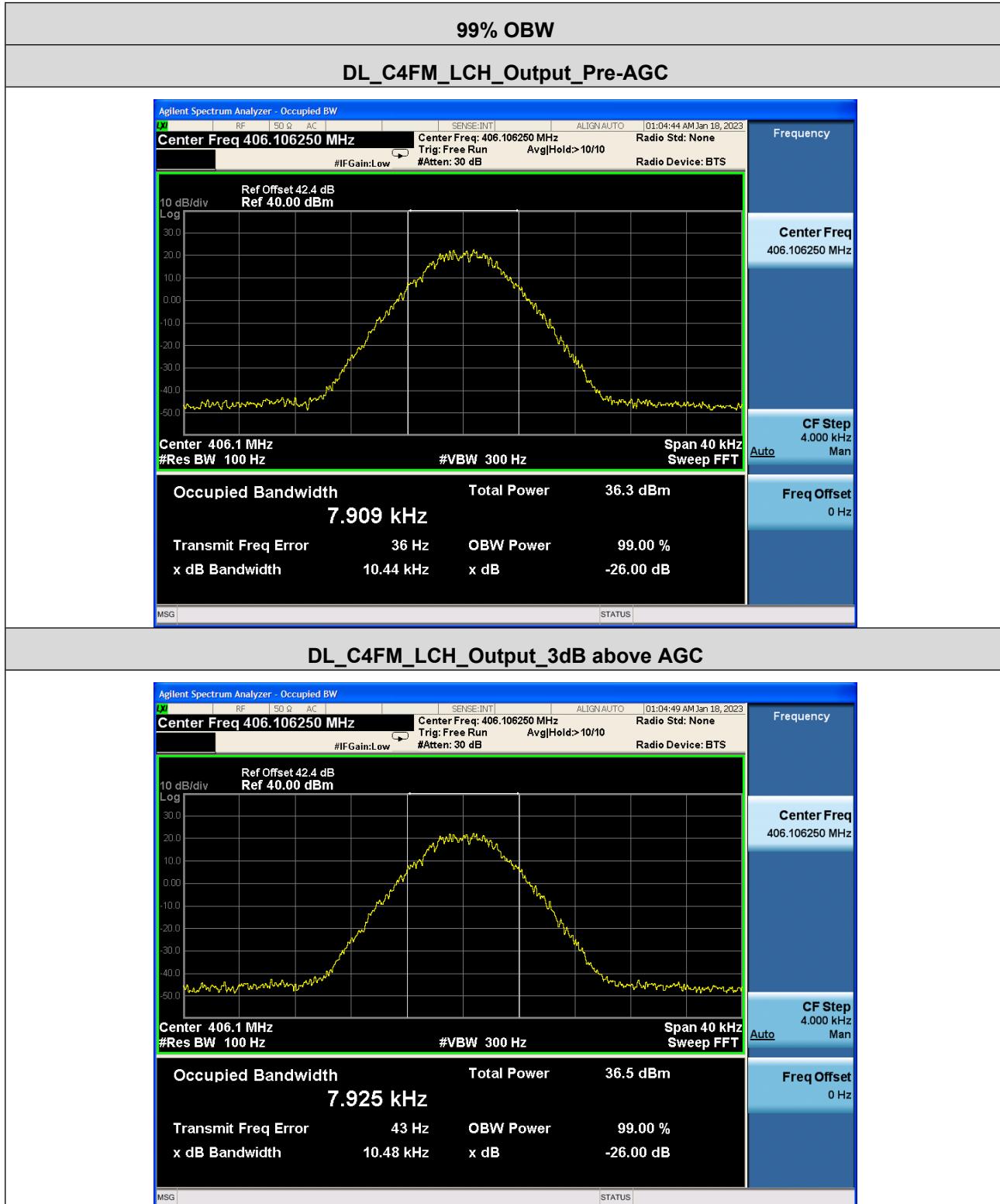
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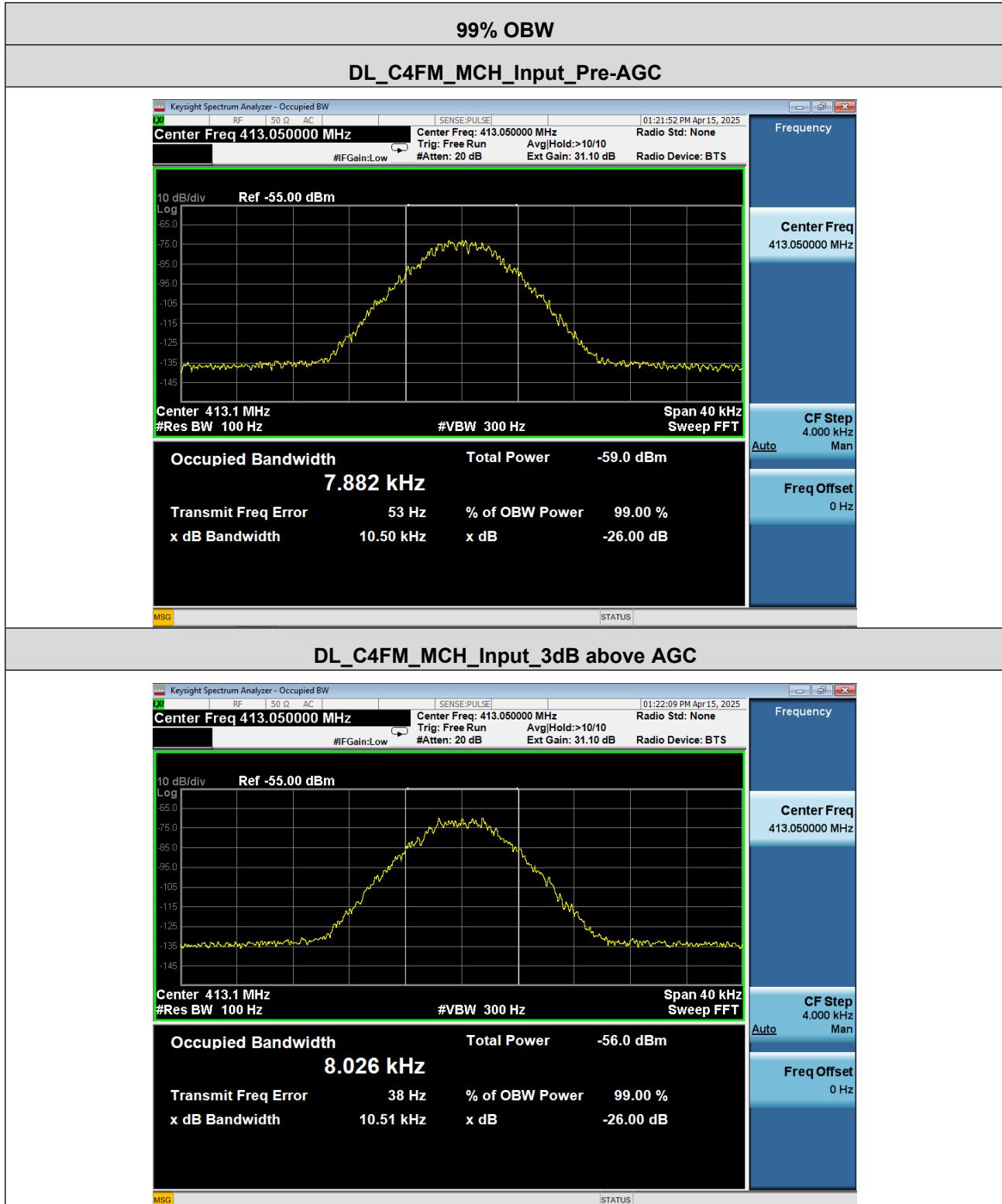
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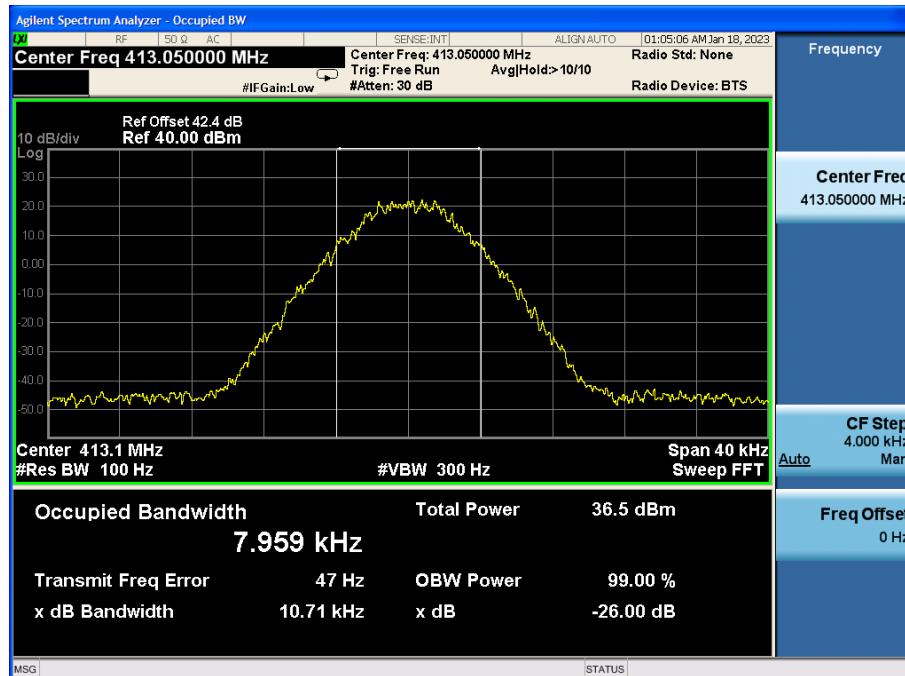


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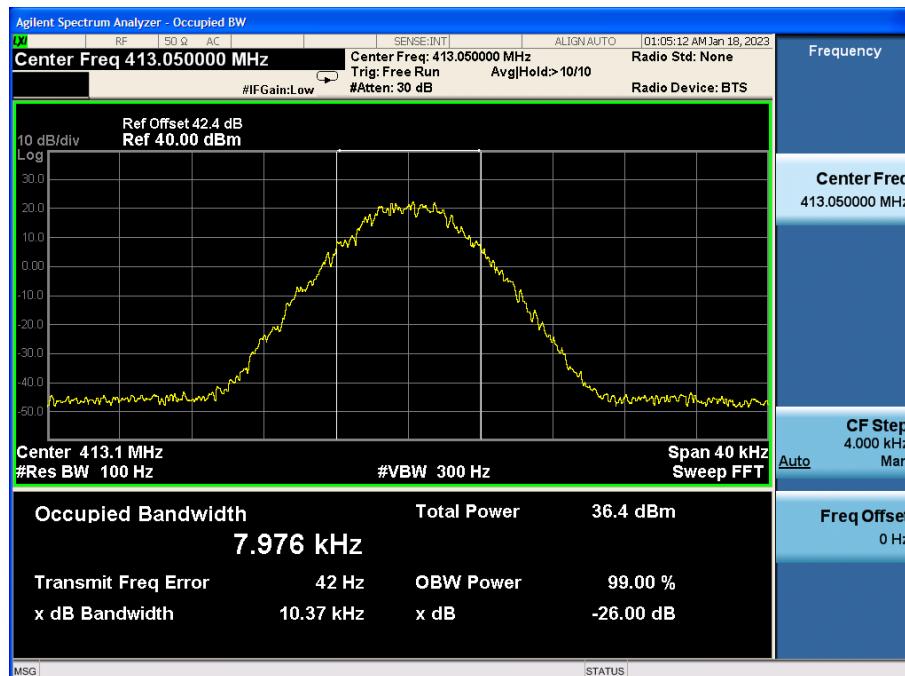
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99% OBW

## DL\_C4FM\_MCH\_Output\_Pre-AGC



## DL\_C4FM\_MCH\_Output\_3dB above AGC



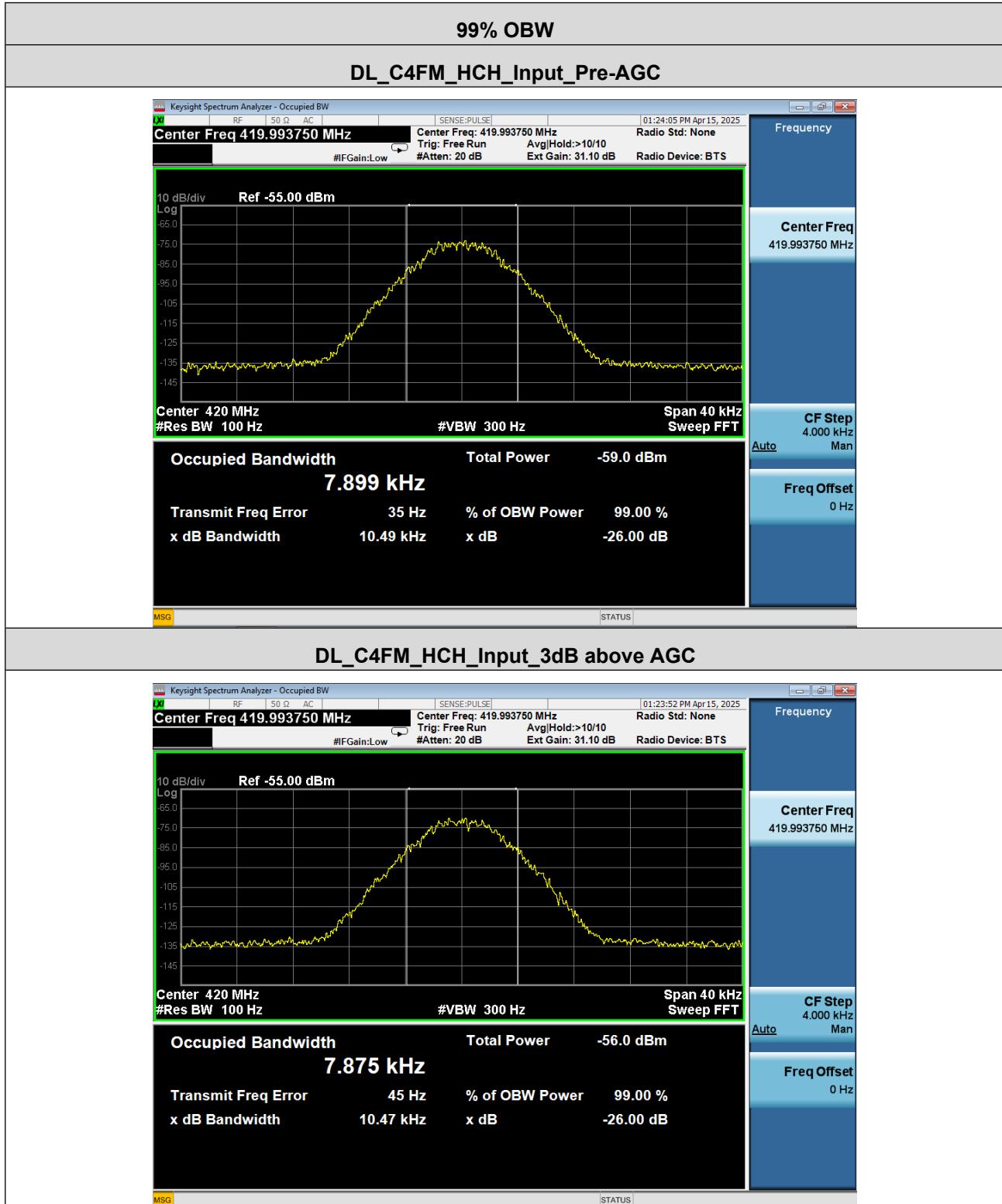
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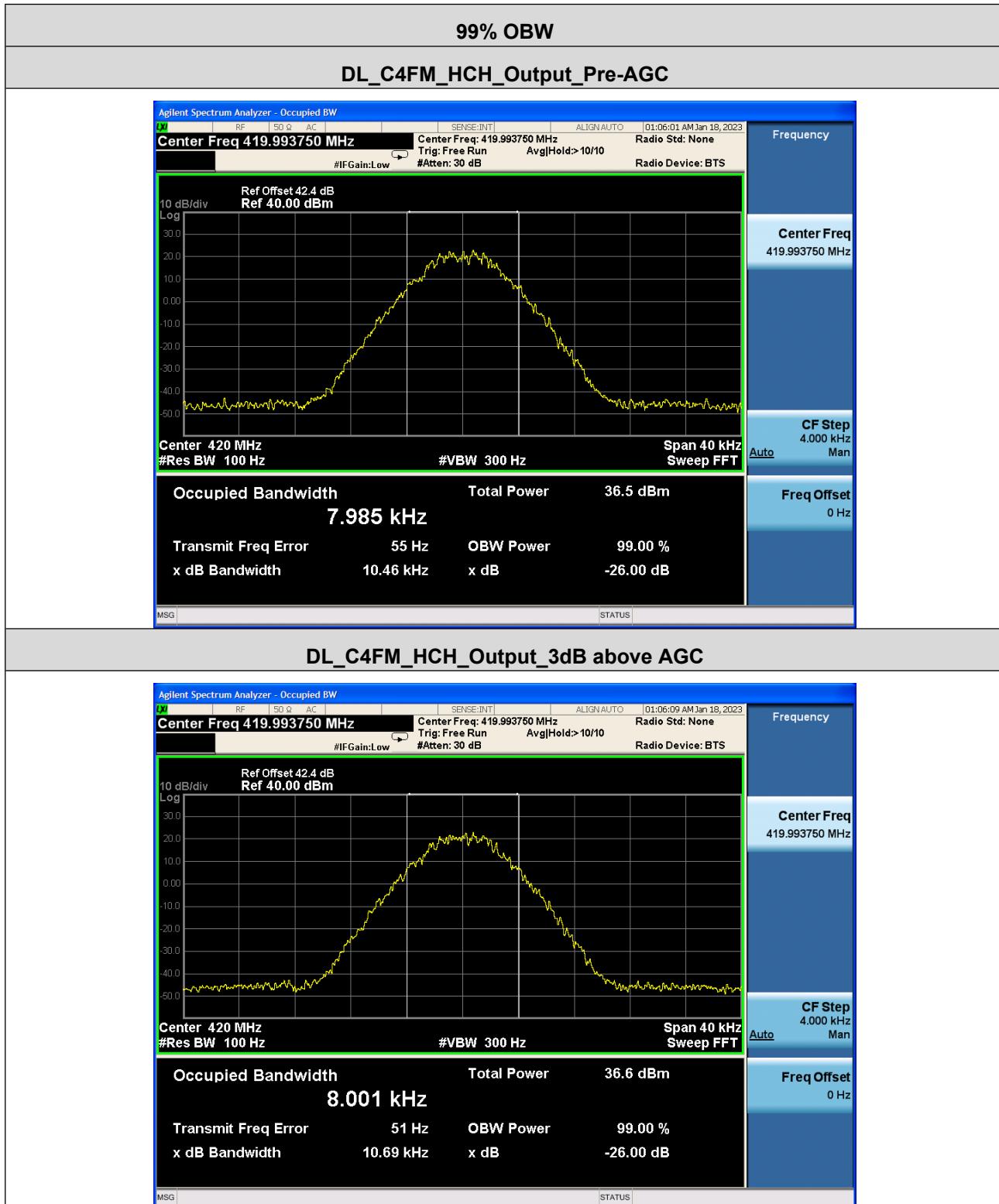
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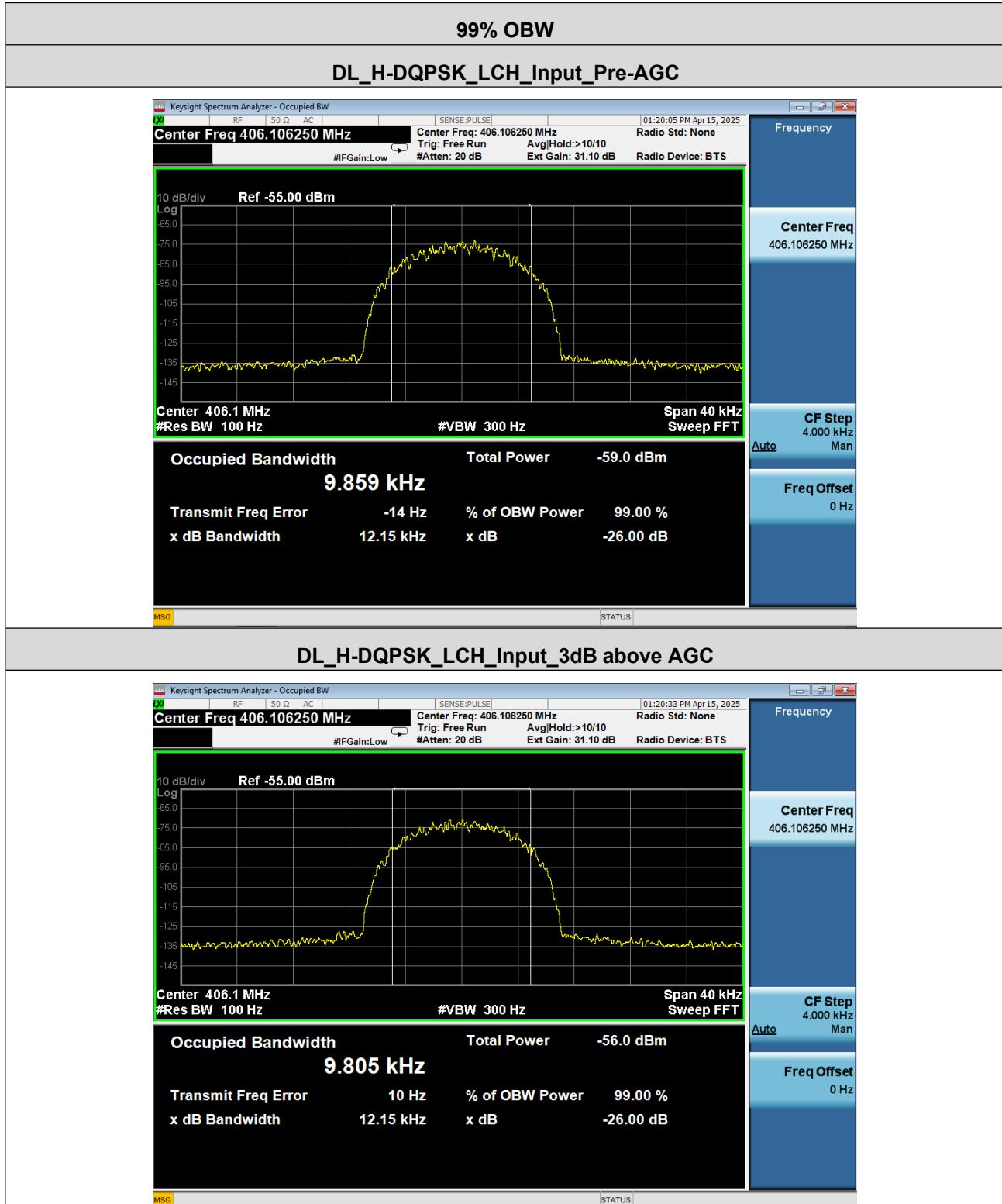
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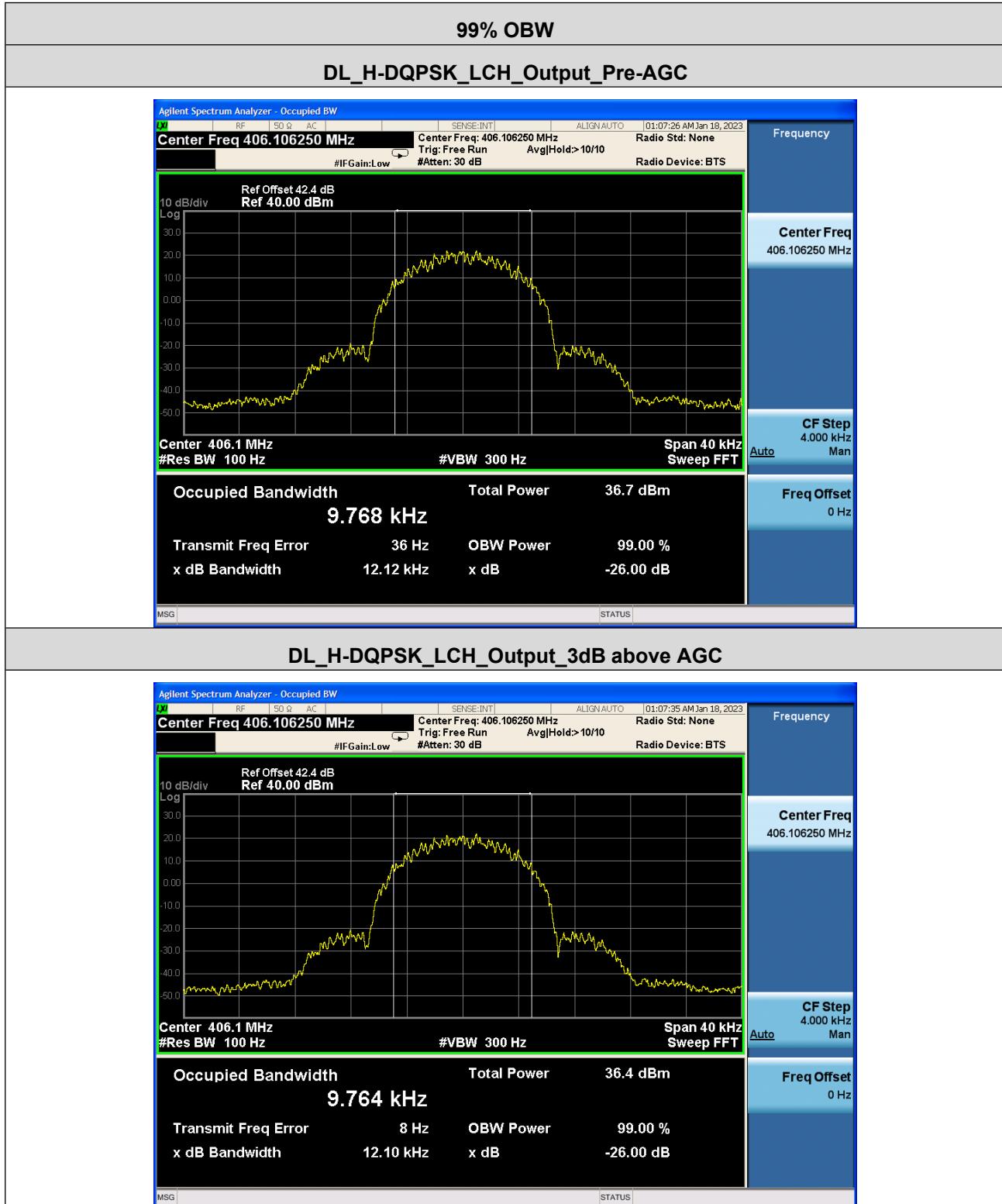
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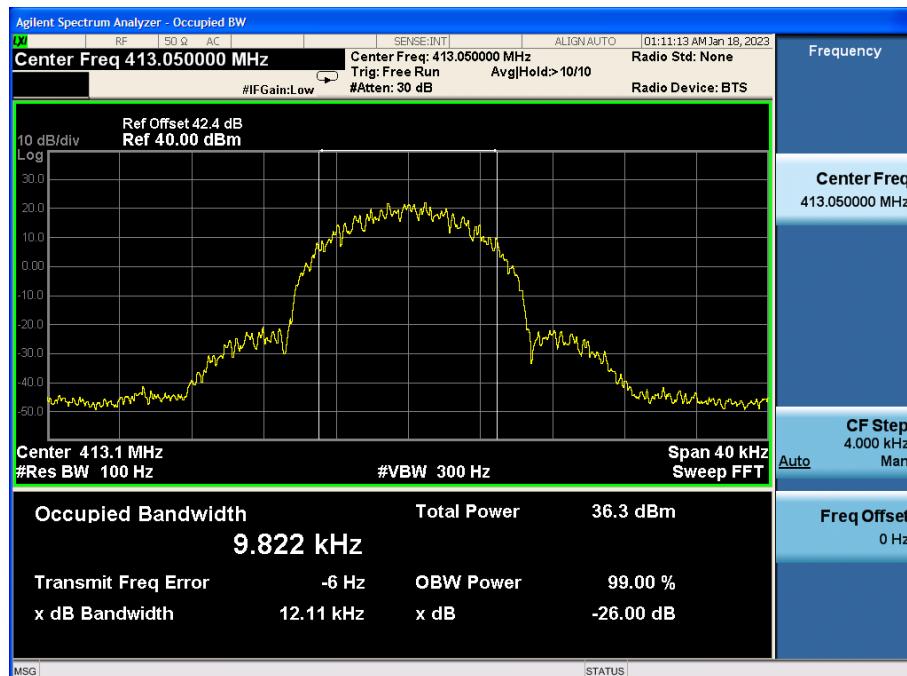
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99% OBW

## DL\_H-DQPSK\_MCH\_Output\_Pre-AGC



## DL\_H-DQPSK\_MCH\_Output\_3dB above AGC



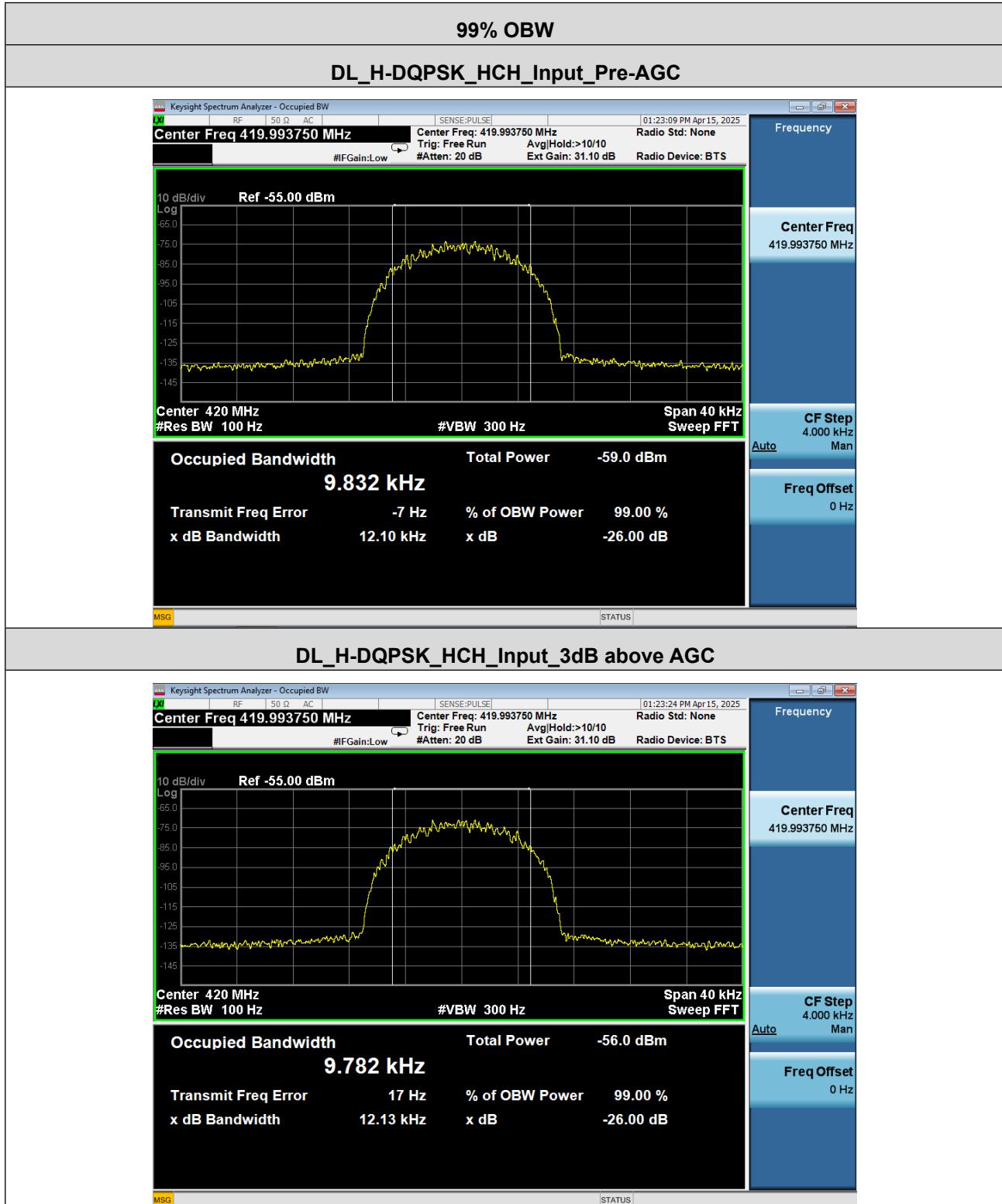
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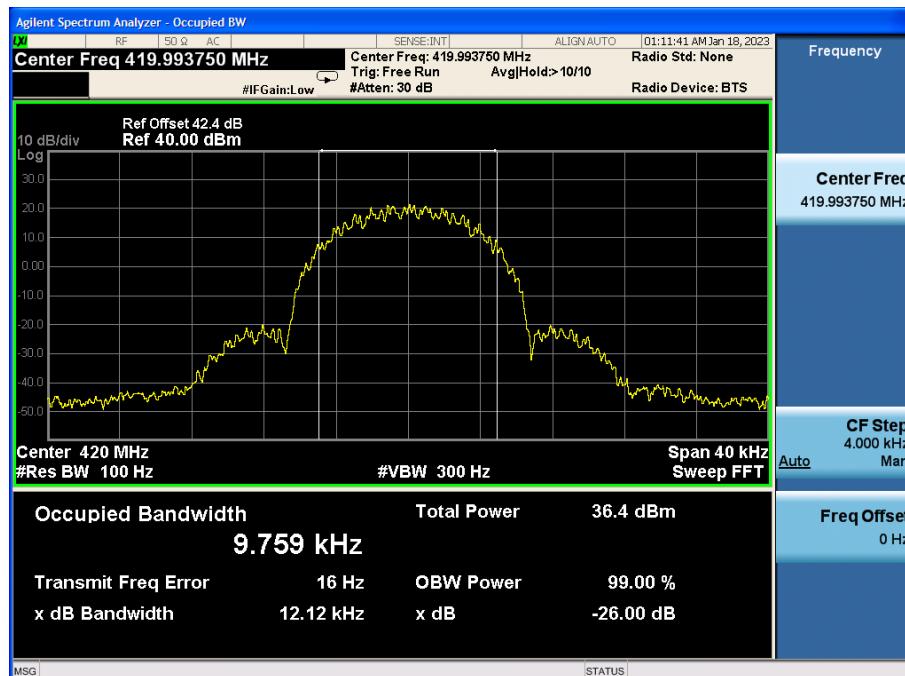


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## DL\_H-DQPSK\_HCH\_Output\_Pre-AGC



## DL\_H-DQPSK\_HCH\_Output\_3dB above AGC



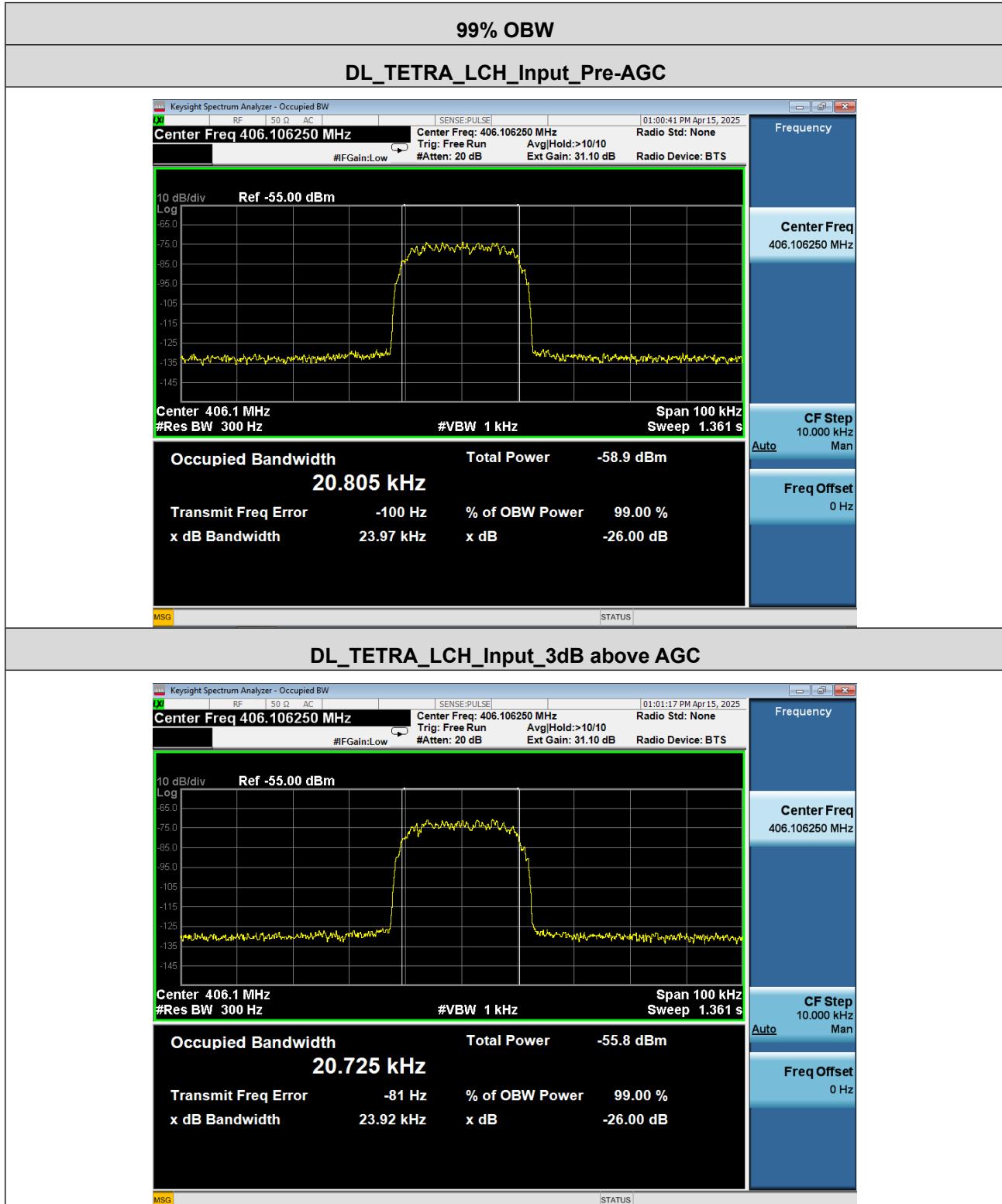
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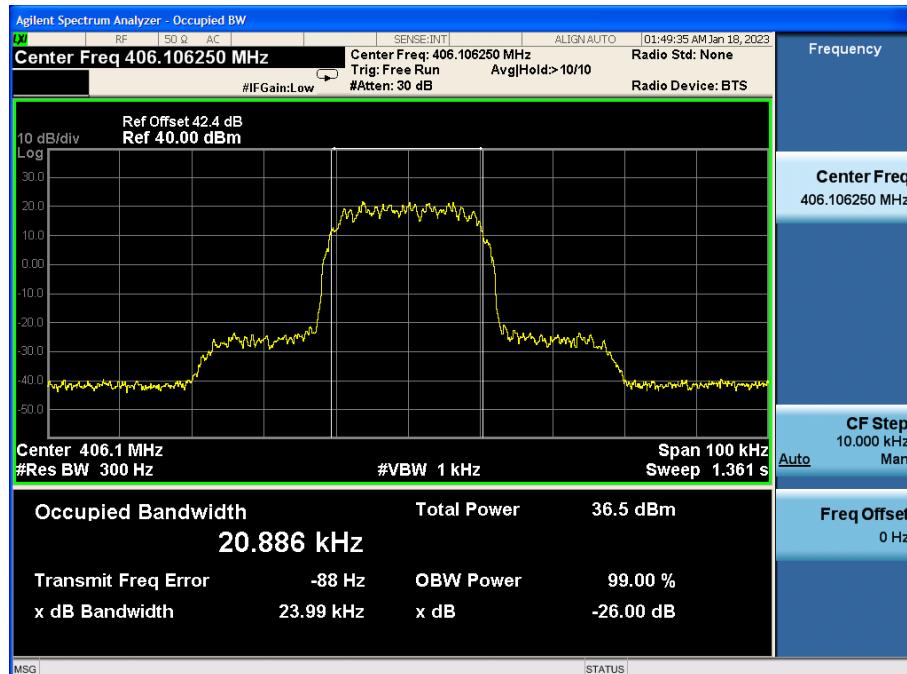


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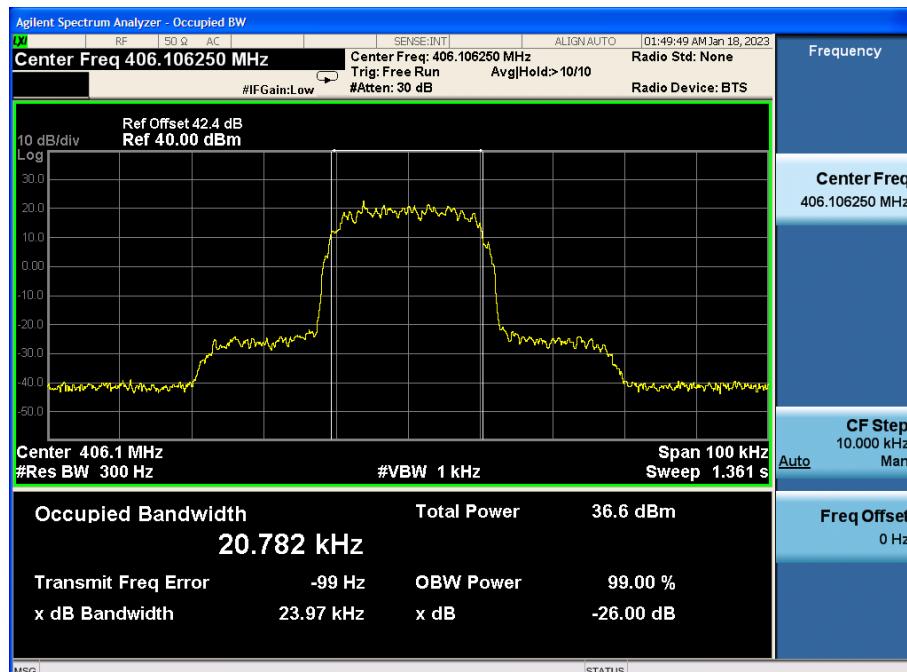
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## DL\_TETRA\_LCH\_Output\_Pre-AGC



## DL\_TETRA\_LCH\_Output\_3dB above AGC



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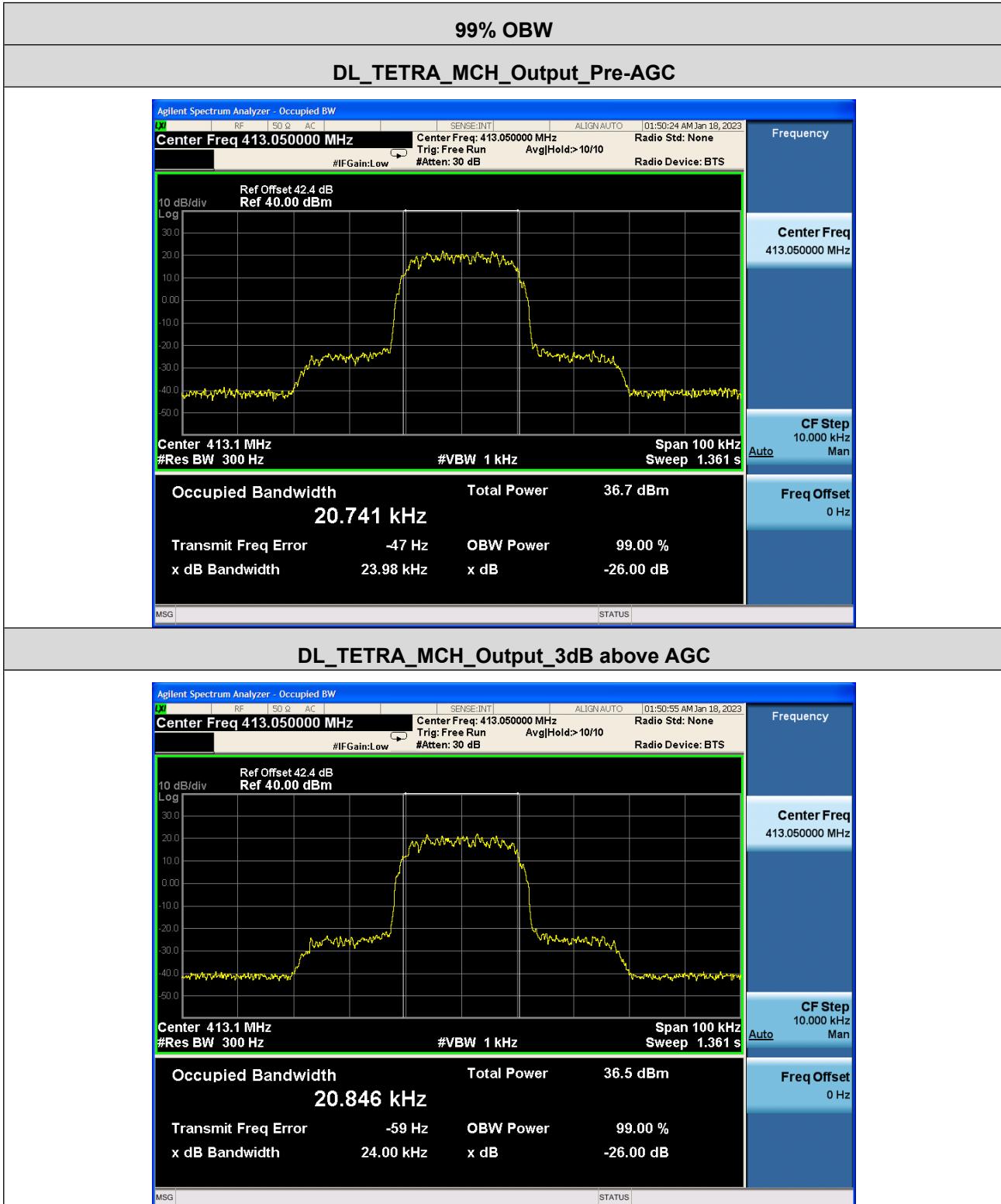




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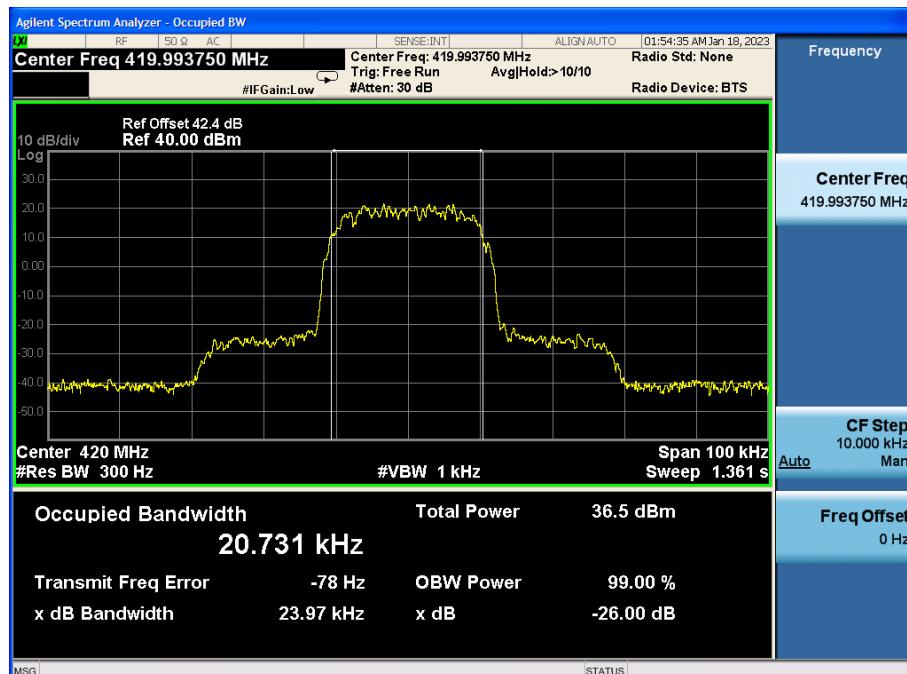


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## DL\_TETRA\_HCH\_Output\_Pre-AGC



## DL\_TETRA\_HCH\_Output\_3dB above AGC



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**3 Input/output power and amplifier/booster gain**

Input/output power and amplifier/booster gain								
Test path	Test frequency f0 (MHz)	Signal level	Input power (dBm)	Output power (dBm)	ERP (W)	ERP limit (W)	Gain (dB)	Verdict
DL	416.0	Pre-AGC	-59	36.65	2.82	5	95.65	PASS
		3dB above AGC	-56	36.81	2.93		/	PASS

Remark:

1. f0 is from Out-of-band Rejection test in the report.
2. The manufacturer's rated Output power is 36dBm for DL, and the Output power showed in above table is within  $\pm 1.0$ dB tolerance.
3. ERP= Output power (dBm)+ antenna gain (dBi)- 2.15dB, the maximum antenna gain is 0dBi declared by the manufacturer.



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## 4 Emission Masks

Emission Masks					
Test path	Test signal	Test channel	Signal level	Emission mask	Verdict
DL	FM	LCH	Pre-AGC	Mask E	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS
	DMR	LCH	Pre-AGC	Mask D	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS
	C4FM	LCH	Pre-AGC	Mask D	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS
	H-DQPSK	LCH	Pre-AGC	Mask D	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS

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Emission Masks					
Test path	Test signal	Test channel	Signal level	Emission mask	Verdict
DL	TETRA	LCH	Pre-AGC	Mask B	PASS
			3dB above AGC		PASS
		MCH	Pre-AGC		PASS
			3dB above AGC		PASS
		HCH	Pre-AGC		PASS
			3dB above AGC		PASS

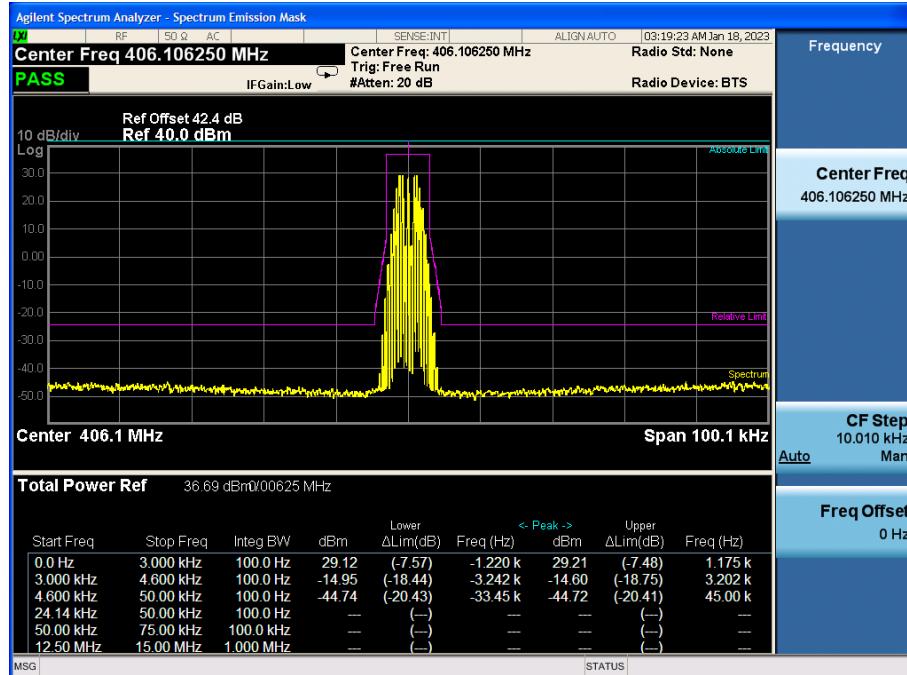


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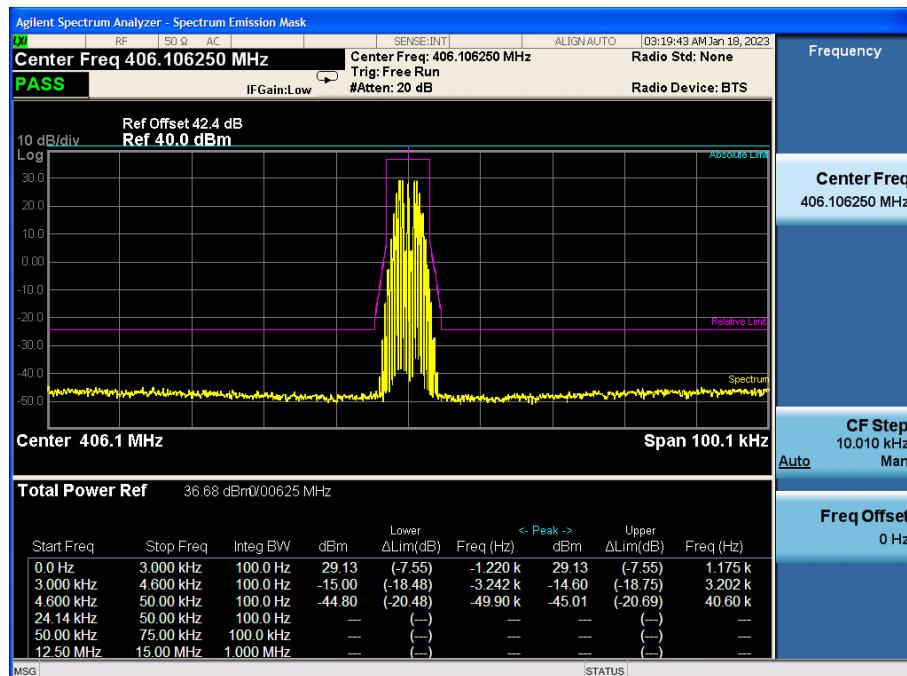
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## Emission Masks

## DL\_FM\_LCH\_Pre-AGC



## DL\_FM\_LCH\_3dB above AGC



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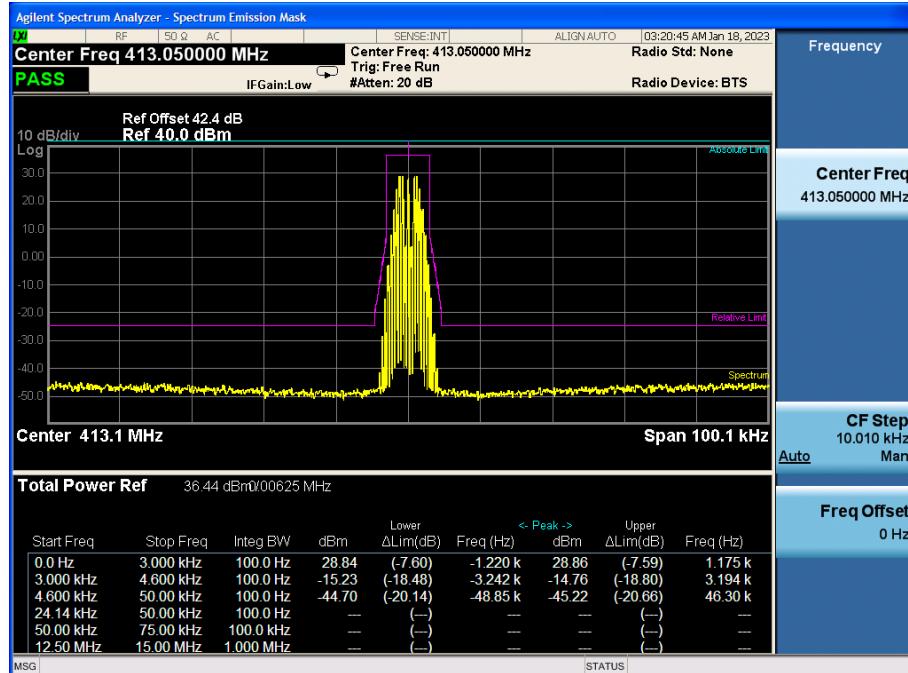
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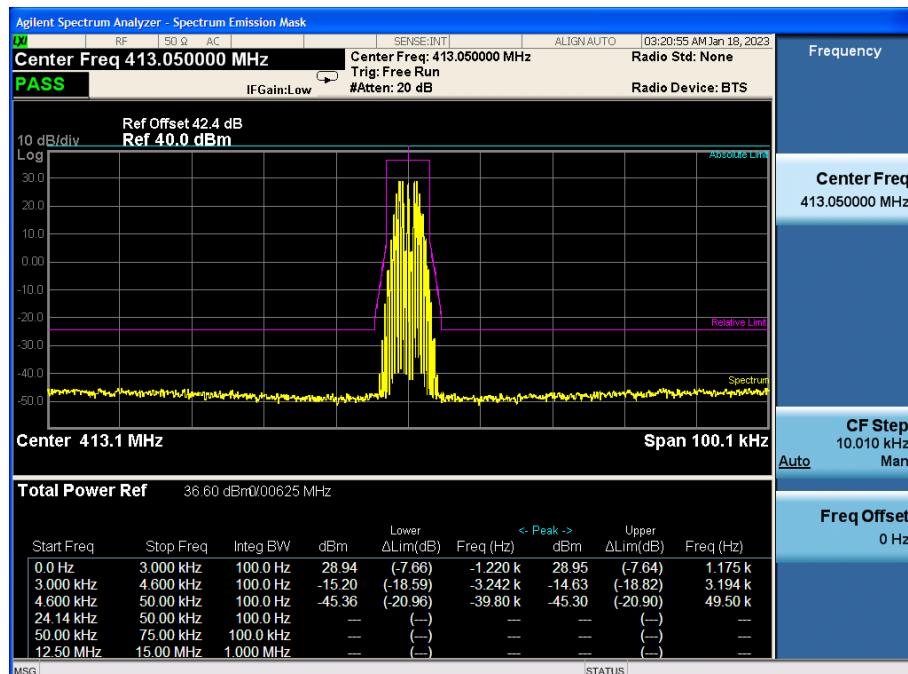
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## Emission Masks

## DL\_FM\_MCH\_Pre-AGC



## DL\_FM\_MCH\_3dB above AGC



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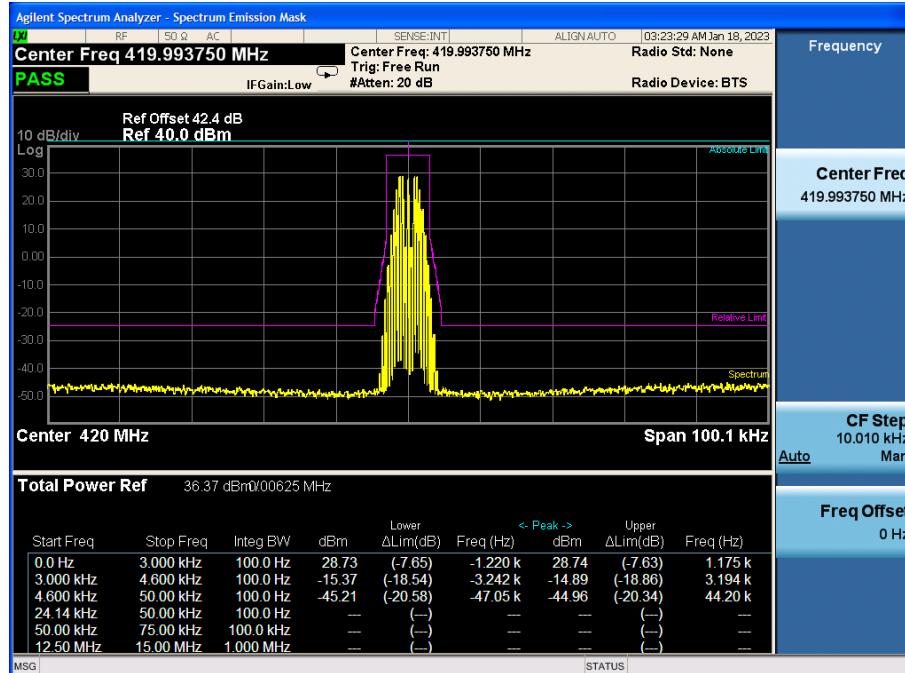
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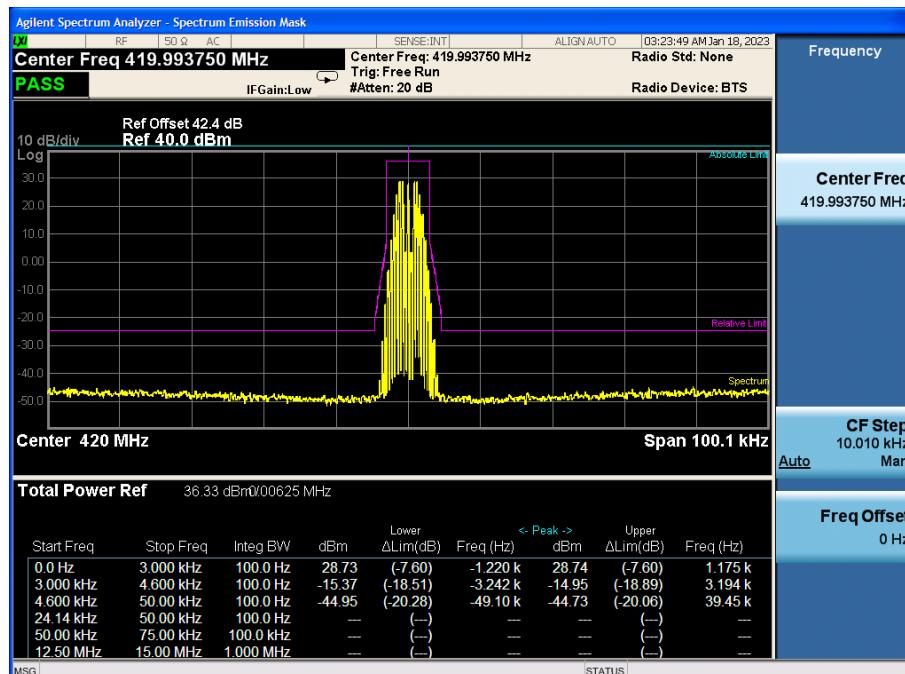
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## Emission Masks

## DL\_FM\_HCH\_Pre-AGC



## DL\_FM\_HCH\_3dB above AGC



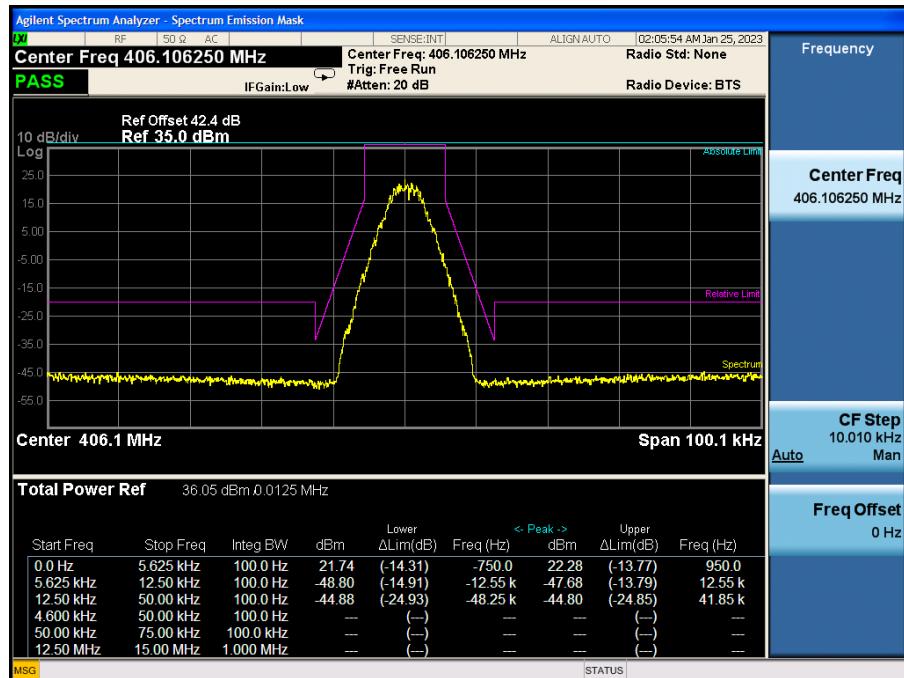
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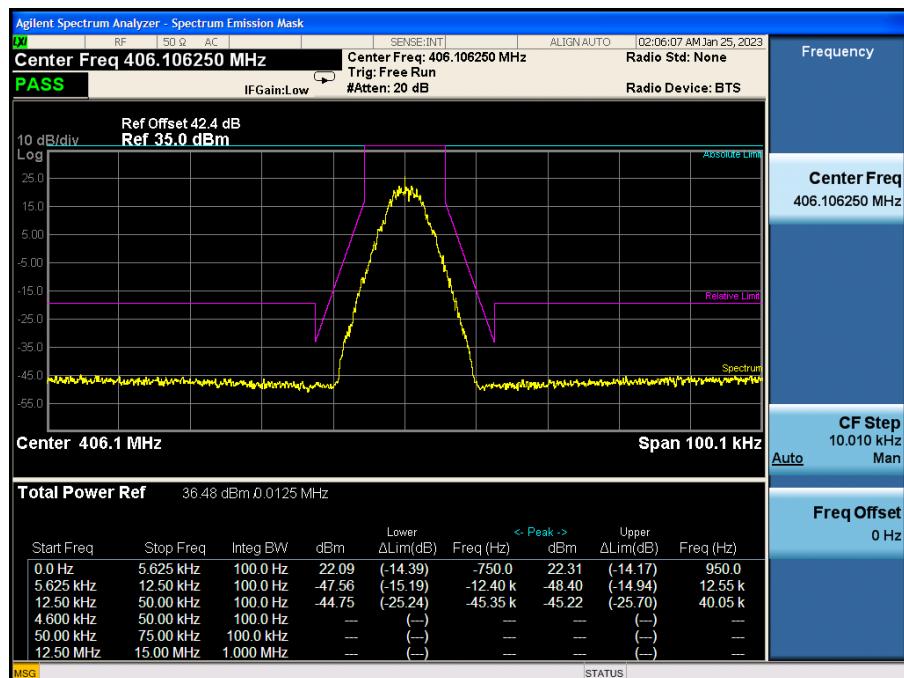


## Emission Masks

## DL\_DMR\_LCH\_Pre-AGC



## DL\_DMR\_LCH\_3dB above AGC



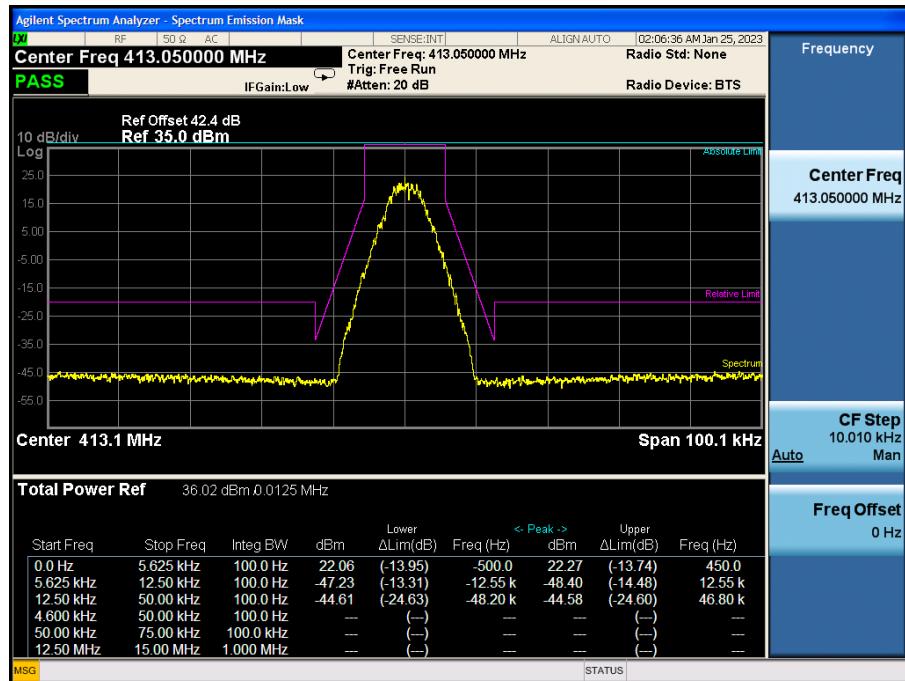
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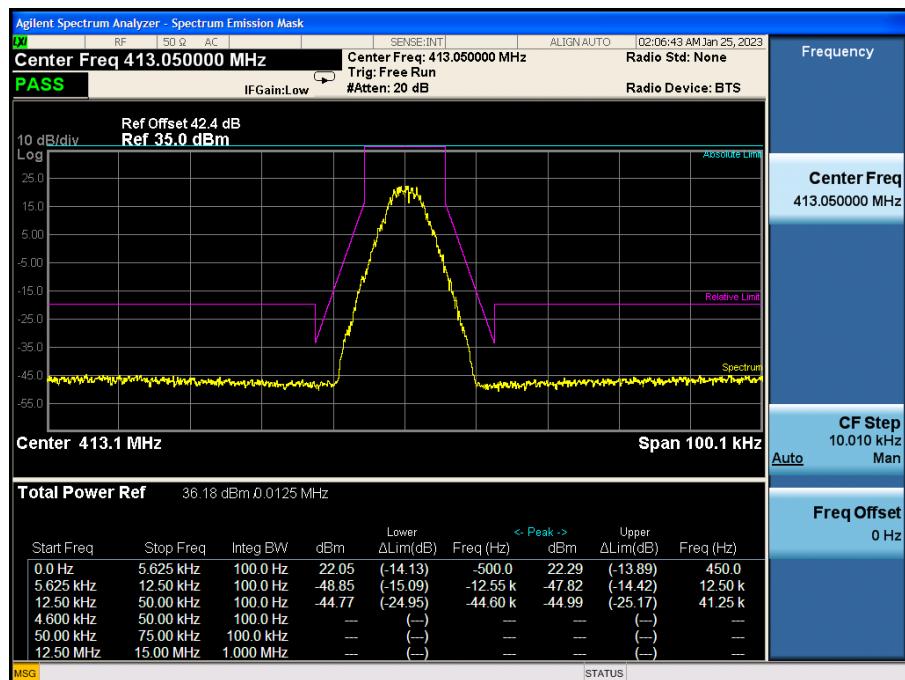


## Emission Masks

## DL\_DMR\_MCH\_Pre-AGC



## DL\_DMR\_MCH\_3dB above AGC



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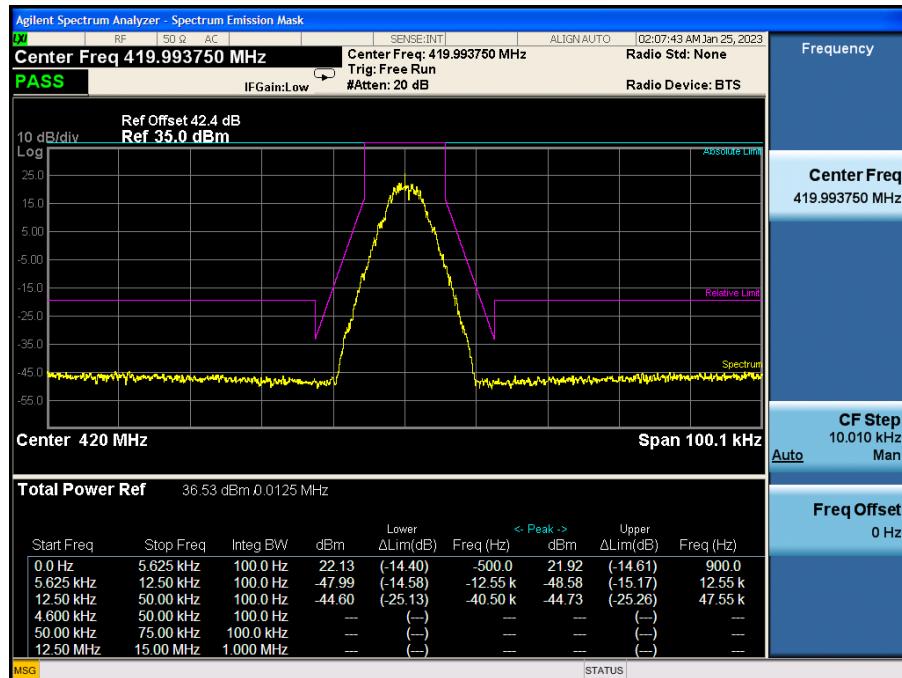
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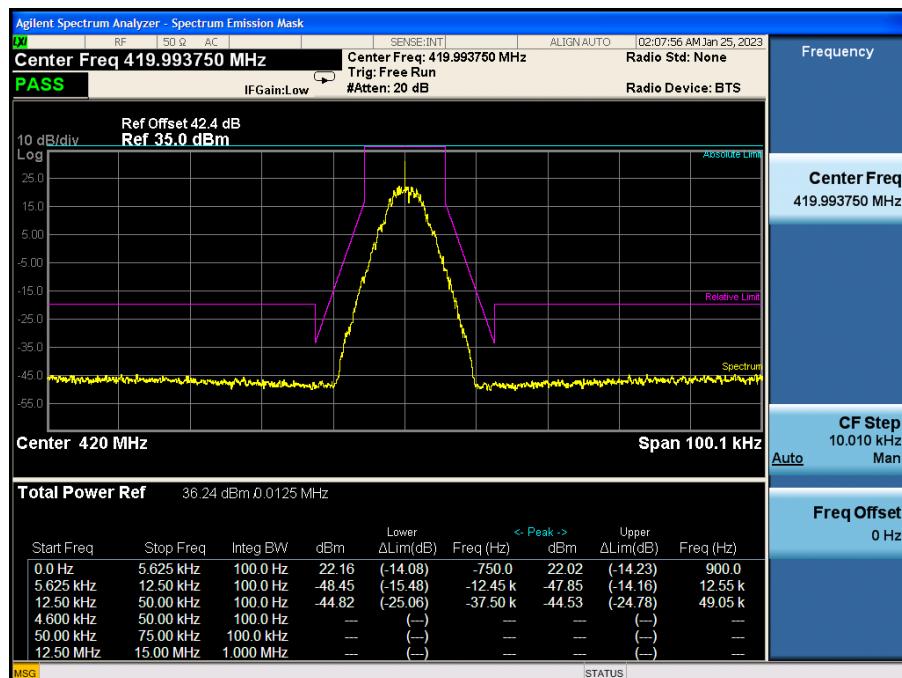
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## Emission Masks

## DL\_DMR\_HCH\_Pre-AGC



## DL\_DMR\_HCH\_3dB above AGC



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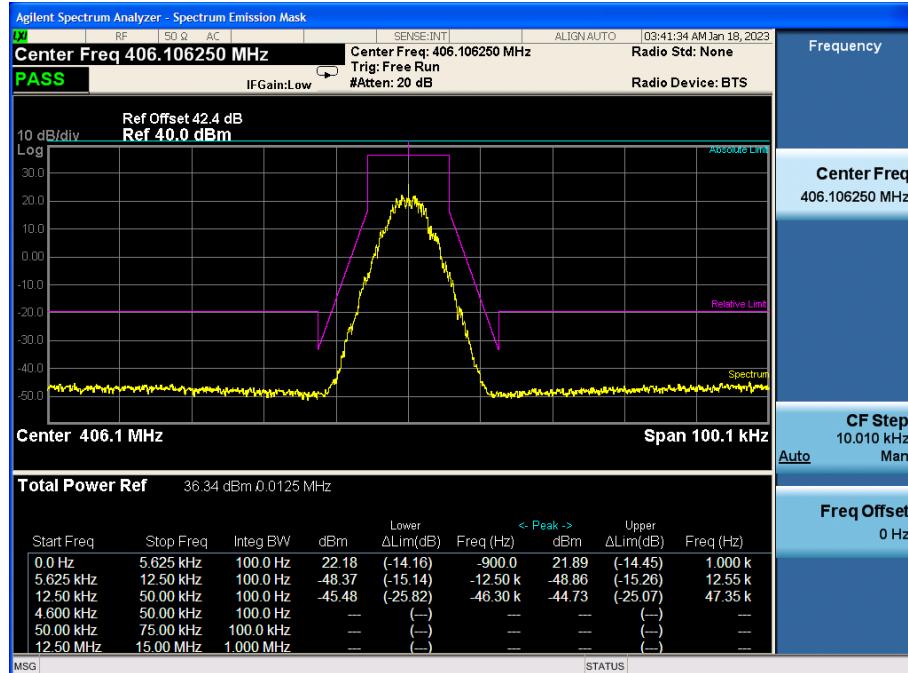
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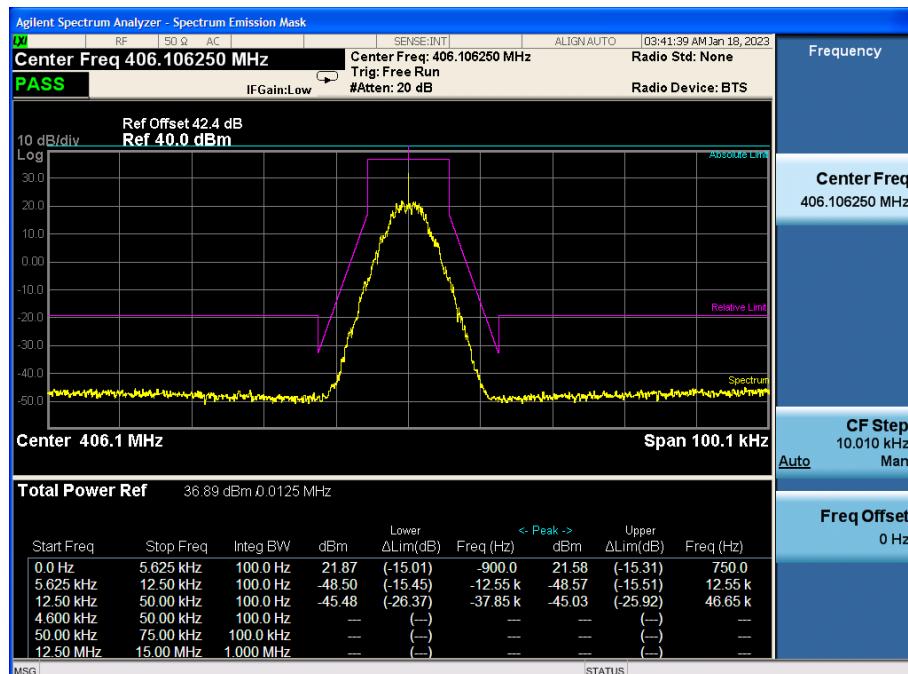
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## Emission Masks

## DL\_C4FM\_LCH\_Pre-AGC



## DL\_C4FM\_LCH\_3dB above AGC



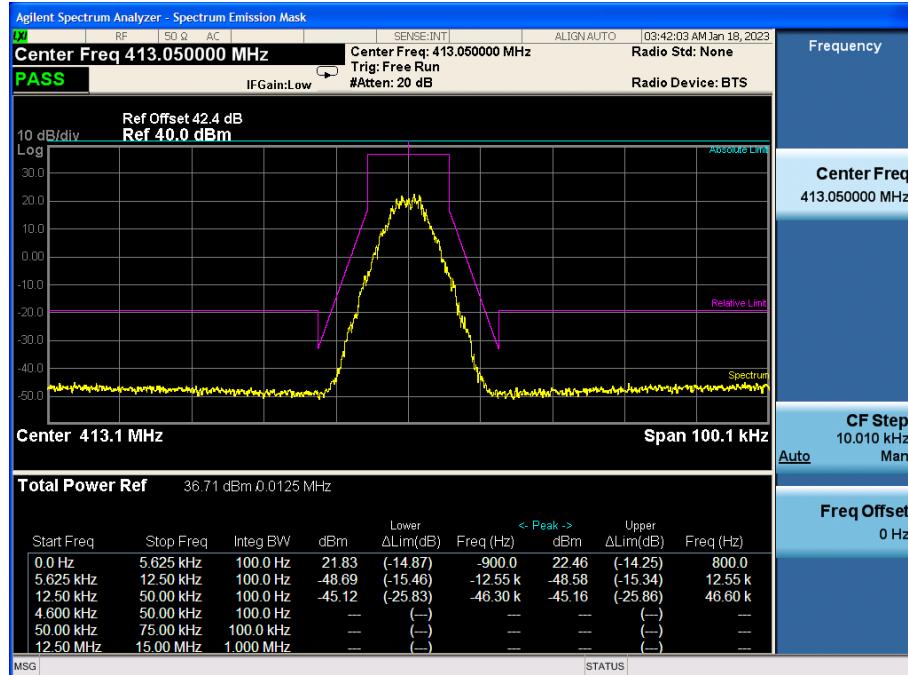
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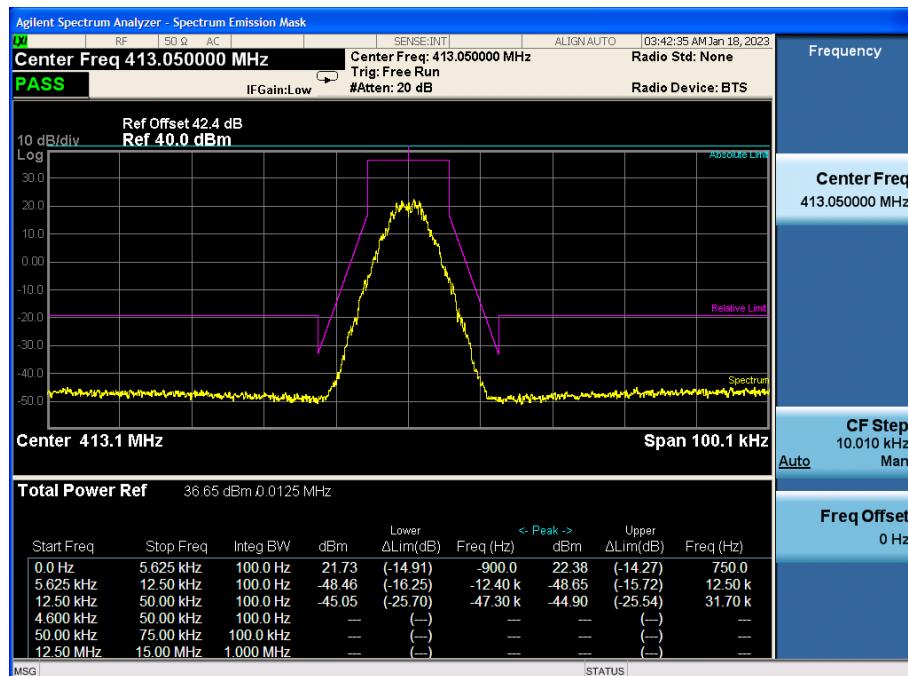


## Emission Masks

## DL\_C4FM\_MCH\_Pre-AGC



## DL\_C4FM\_MCH\_3dB above AGC



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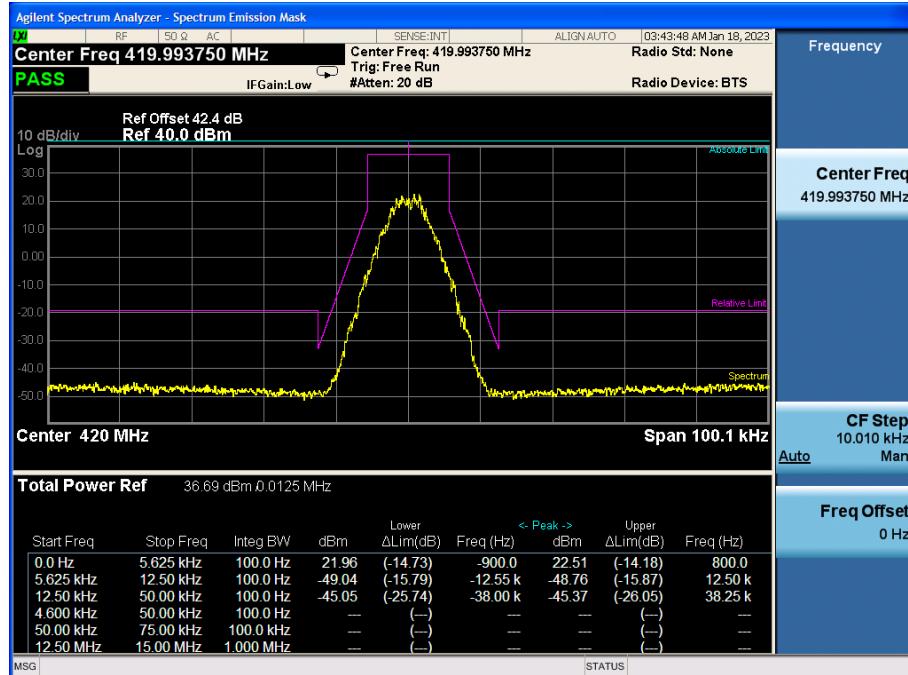


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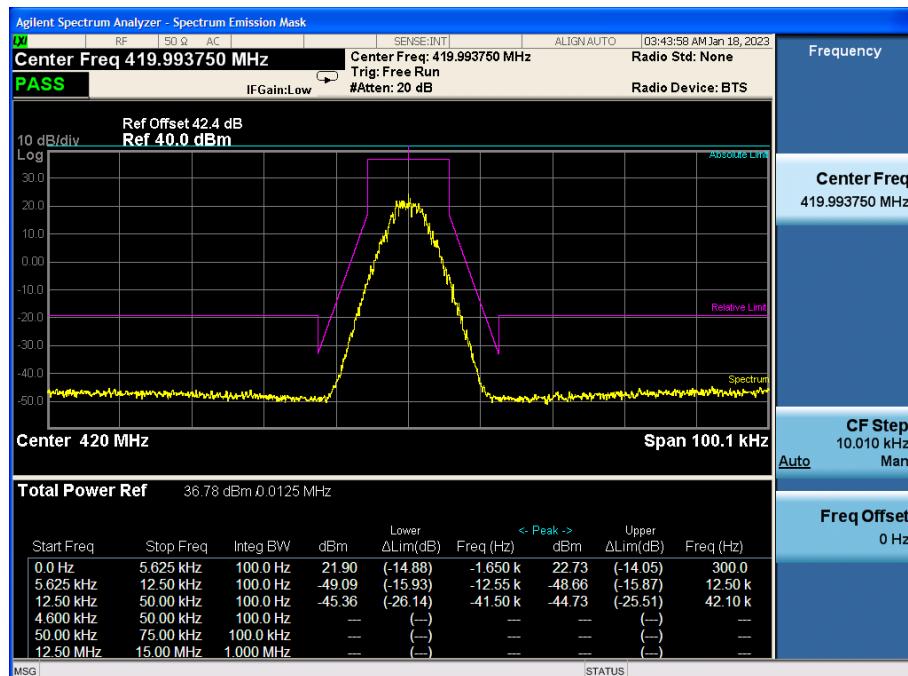
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## Emission Masks

## DL\_C4FM\_HCH\_Pre-AGC



## DL\_C4FM\_HCH\_3dB above AGC



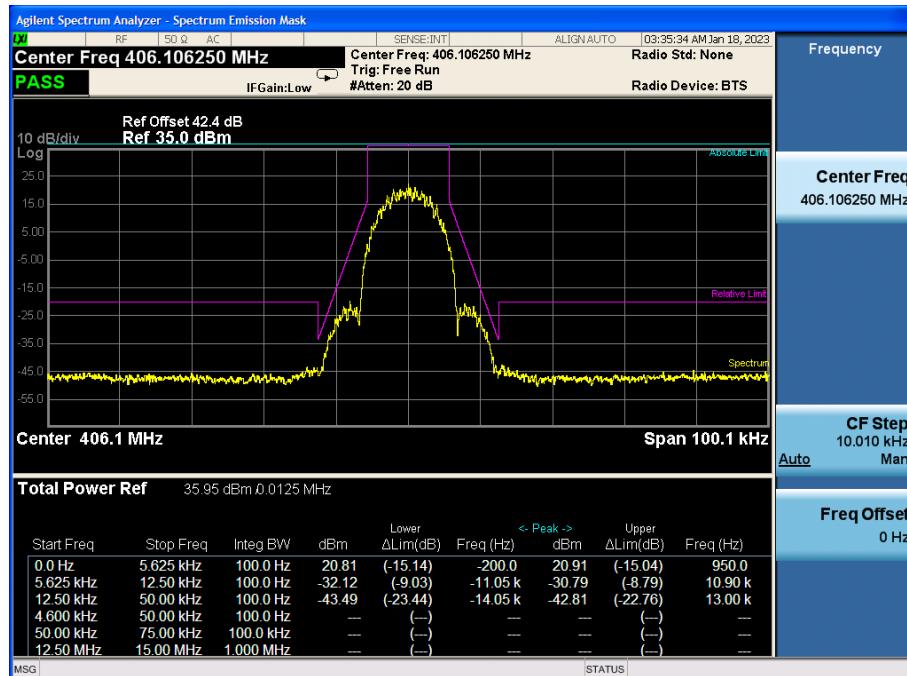
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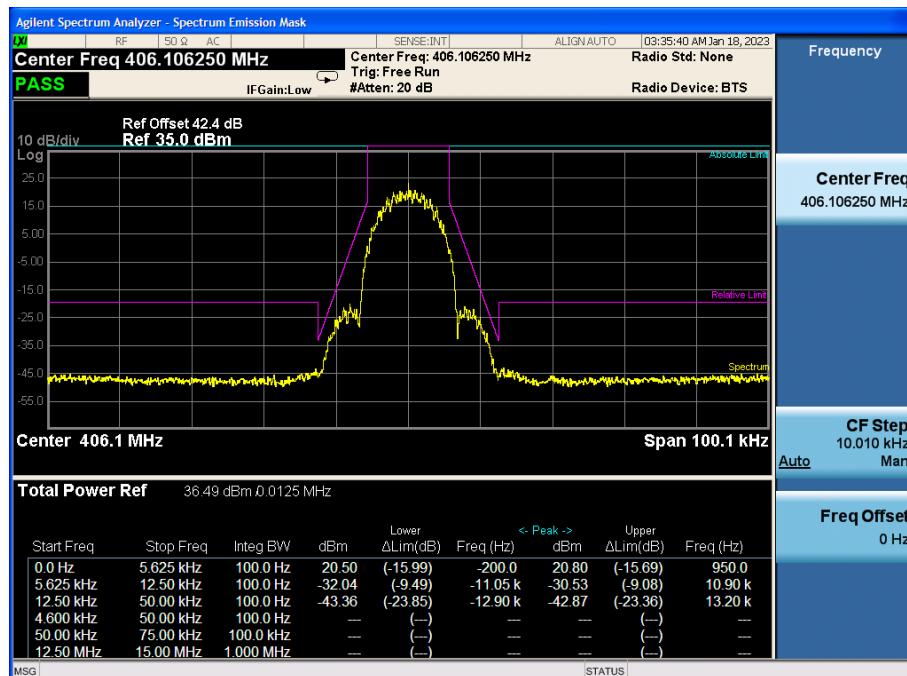


## Emission Masks

## DL\_H-DQPSK\_LCH\_Pre-AGC



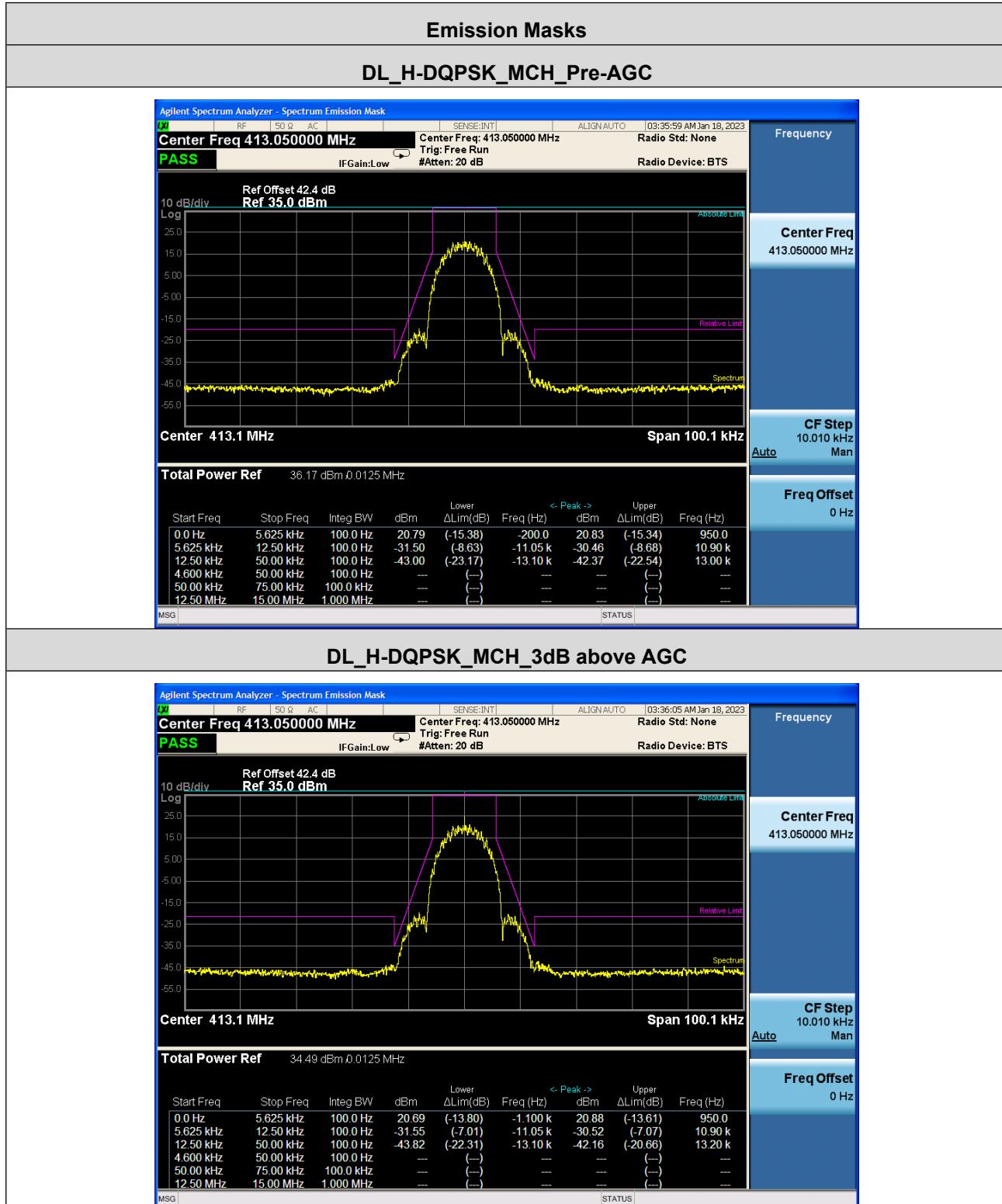
## DL\_H-DQPSK\_LCH\_3dB above AGC



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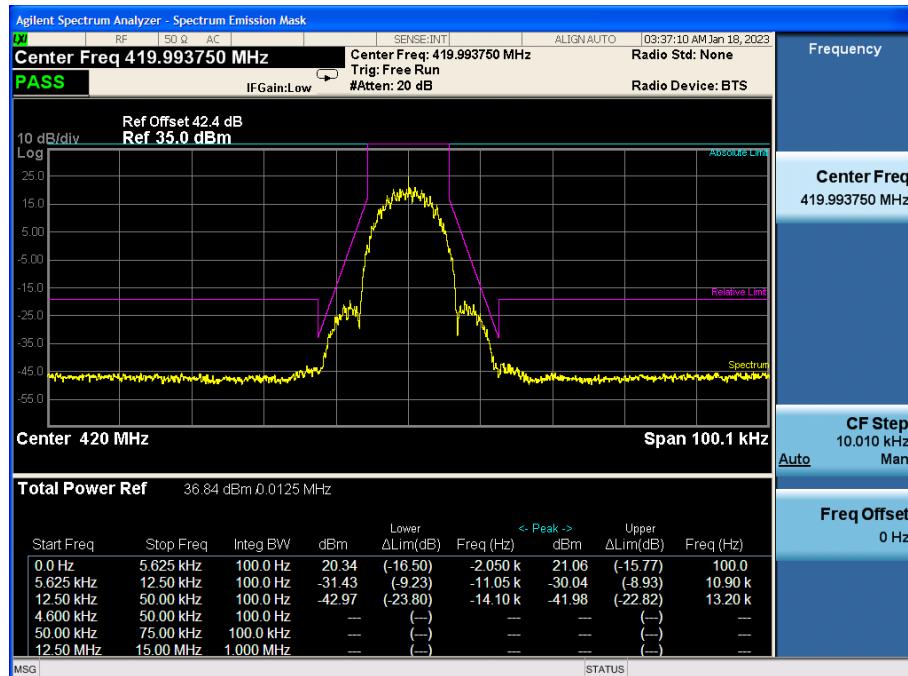
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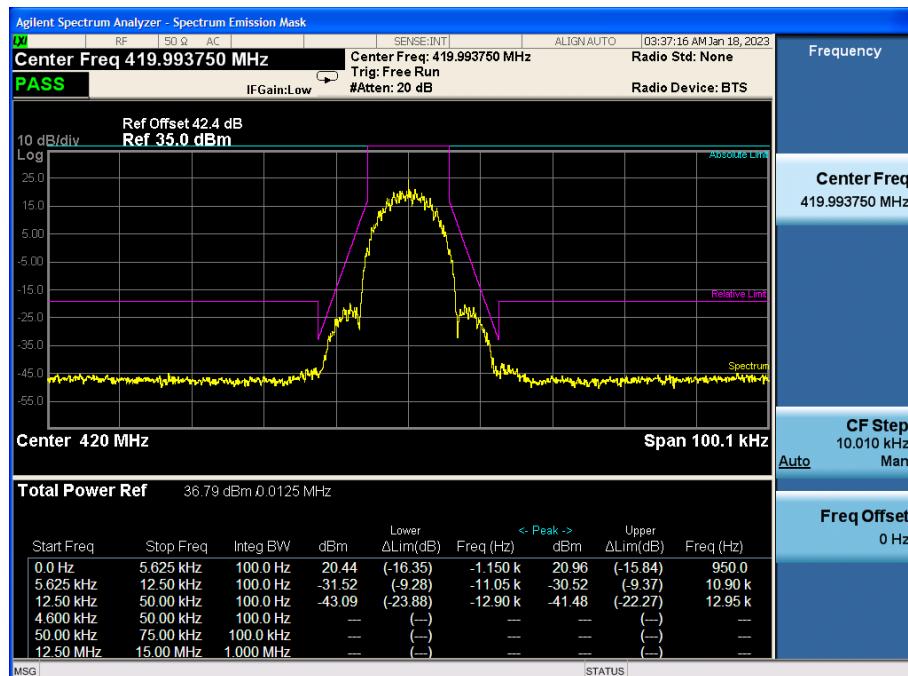


## Emission Masks

## DL\_H-DQPSK\_HCH\_Pre-AGC



## DL\_H-DQPSK\_HCH\_3dB above AGC



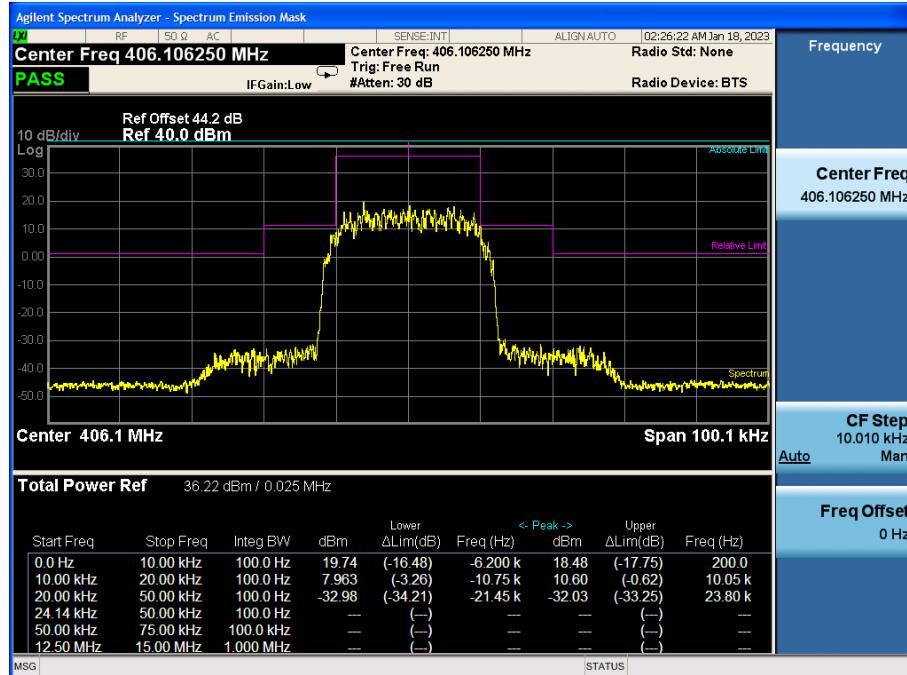
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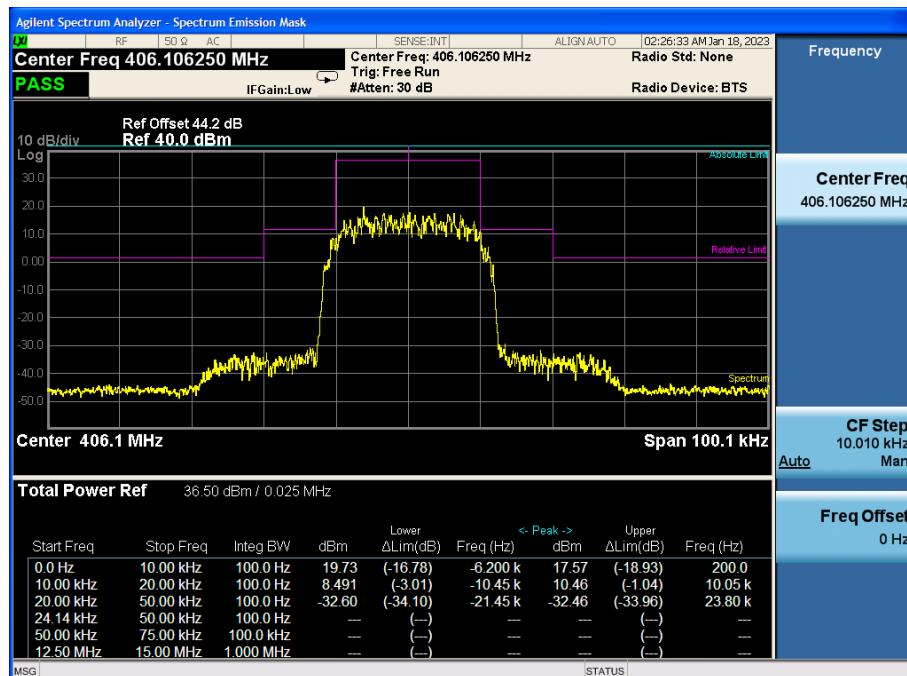


## Emission Masks

## DL\_TETRA\_LCH\_Pre-AGC



## DL\_TETRA\_LCH\_3dB above AGC



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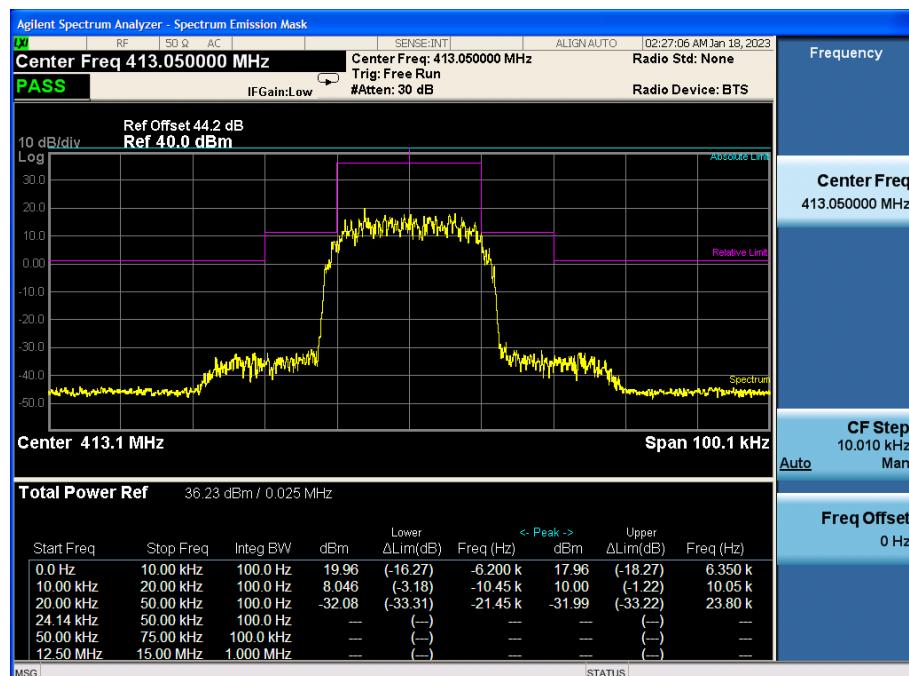


## Emission Masks

## DL\_TETRA\_MCH\_Pre-AGC



DL TETRA MCH 3dB above AGC



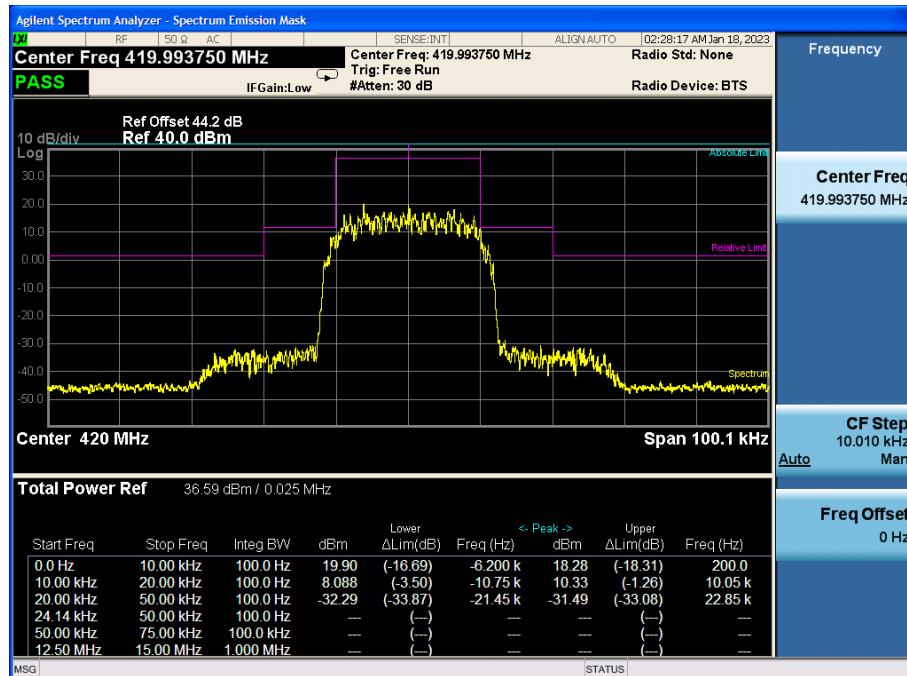
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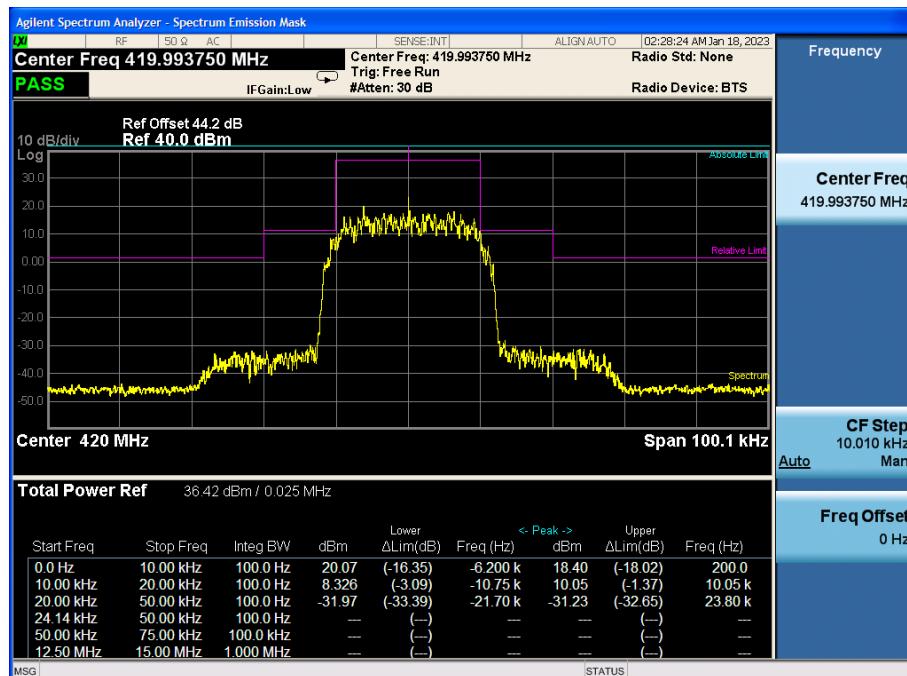


## Emission Masks

## DL\_TETRA\_HCH\_Pre-AGC



## DL\_TETRA\_HCH\_3dB above AGC



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**5 Noise Figure**

Noise Figure			
Test path	Noise figure (dB)	Limit (dB)	Verdict
DL	5.11	≤9	PASS



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## 6 Intermodulation

Intermodulation					
Test path	Test frequency f0 (MHz)	CW signal spacing (kHz)	Signal level	Worst conducted test level (dBm)	
				300Hz measurement bandwidth	10kHz measurement bandwidth
DL	416.0	6.25	Pre-AGC	-13.91	1.32
			3dB above AGC	-14.25	0.98
		12.5	Pre-AGC	-14.36	0.87
			3dB above AGC	-14.13	1.10
		25	Pre-AGC	-13.82	1.41
			3dB above AGC	-13.87	1.36

Remark:

1. f0 is from Out-of-band Rejection test in the report.
2. The level in 10kHz measurement bandwidth= the level in 300Hz measurement bandwidth+  $10\lg(10000/300)$ .
3. ERP= conducted test level (dBm)+ antenna gain (dBi)- 2.15dB, the maximum antenna gain is 0dBi and declared by the manufacturer.
4. The ERP of worst intermodulation products is  $1.41/10\text{kHz} + 0\text{dBi} - 2.15\text{dB} = -0.74\text{dBm}$ , the applicant must use good engineering practice to make sure that the ERP of intermodulation products should not exceed -30dBm in 10kHz measurement bandwidth.

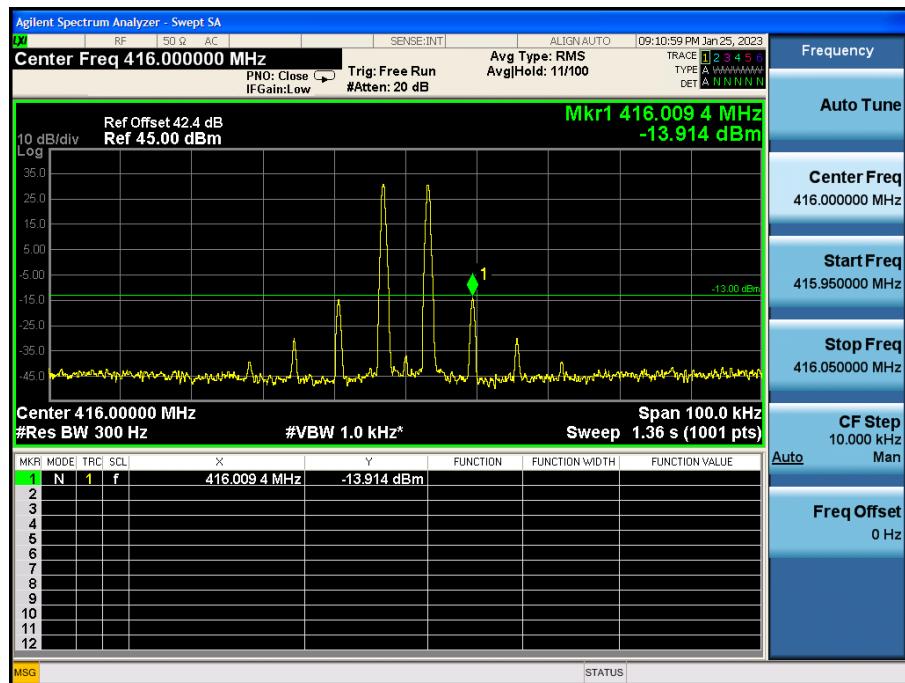


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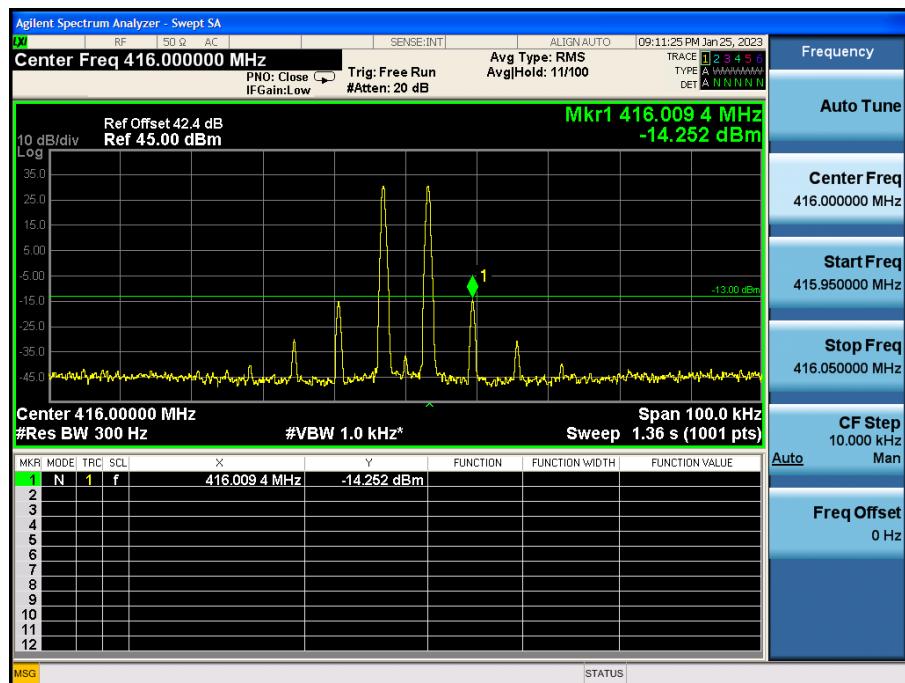
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## Intermodulation

## DL\_6.25kHz\_Pre-AGC



## DL\_6.25kHz\_3dB above AGC



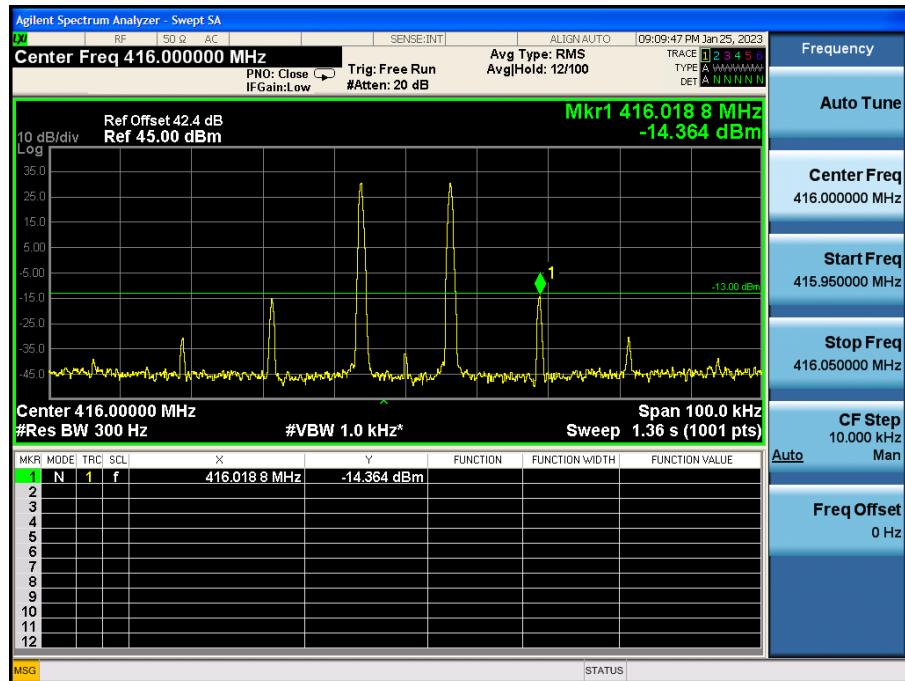
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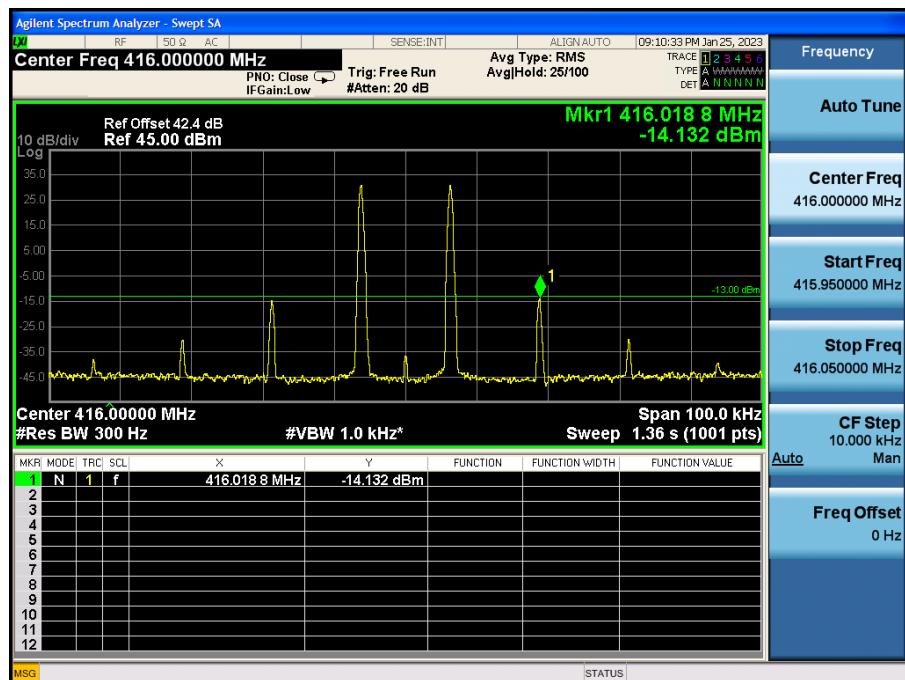


## Intermodulation

## DL\_12.5kHz\_Pre-AGC



## DL\_12.5kHz\_3dB above AGC



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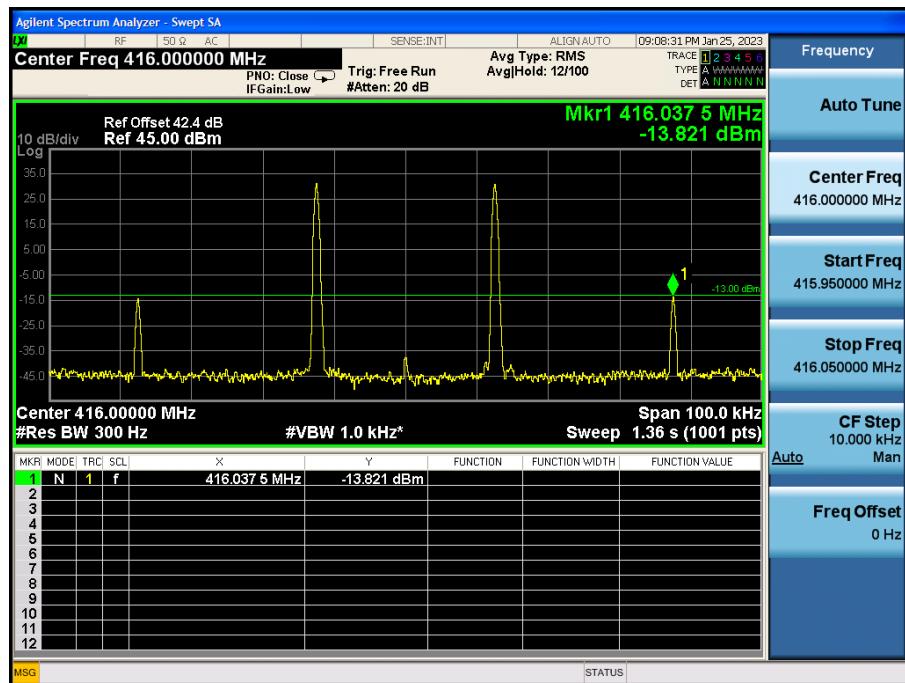
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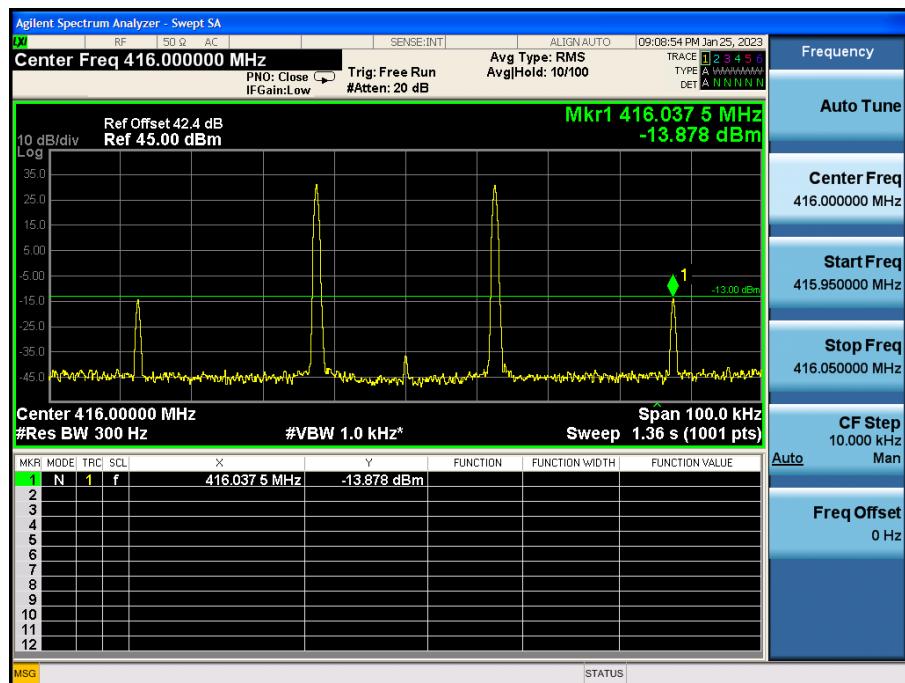
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## Intermodulation

## DL\_25kHz\_Pre-AGC



## DL\_25kHz\_3dB above AGC



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## 7 Conducted Spurious emissions

Conducted Spurious emissions						
Test path	Test signal	Test channel	Frequency range (MHz)	Worst test level (dBm)	Limit (dBm)	Verdict
DL	CW	MCH	0.009-1000	-24.56	≤-13	PASS
			1000-4200	-25.04	≤-13	PASS

Remark:  
The conducted spurious emissions 9kHz to 30MHz were very low and not displayed test plots in this report.

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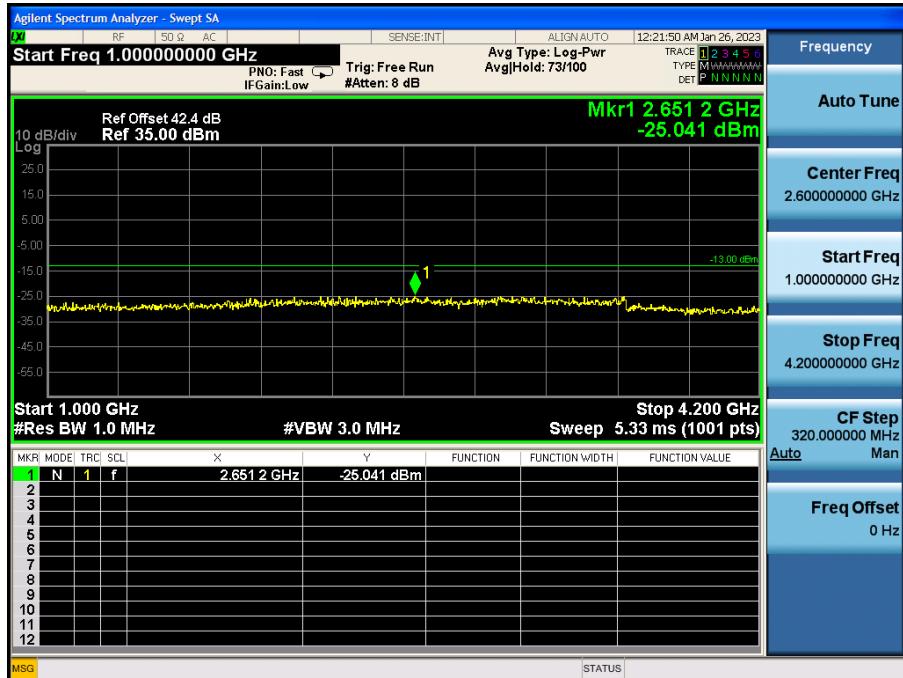
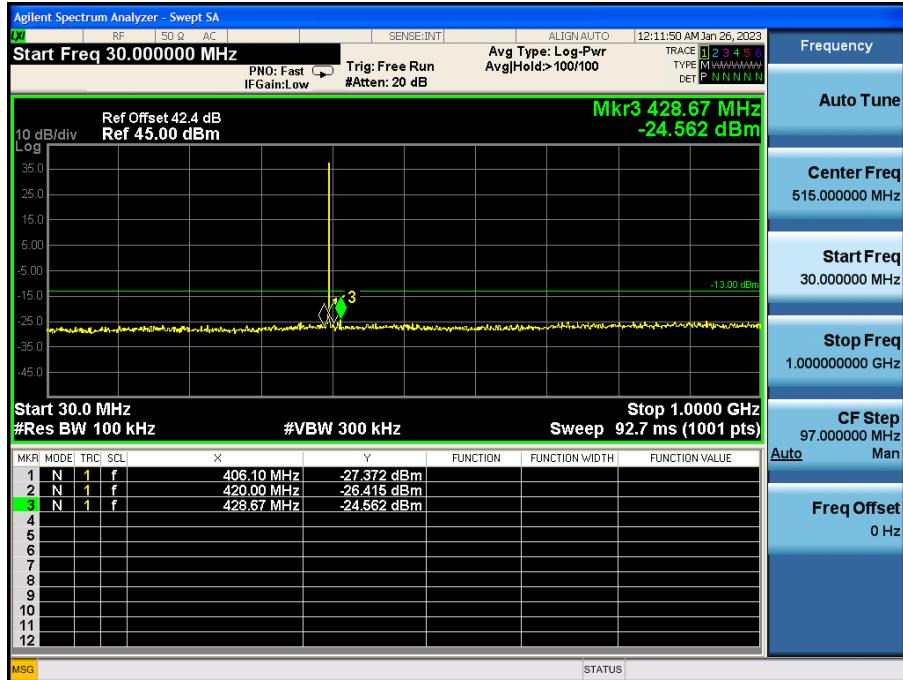


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## Conducted Spurious emissions

## DL\_CW\_MCH



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**8 Noise**

Noise within the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	406.1-420	-41.37
Noise outside of the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	0.009-405.1	-44.58
	421-4200	-40.47

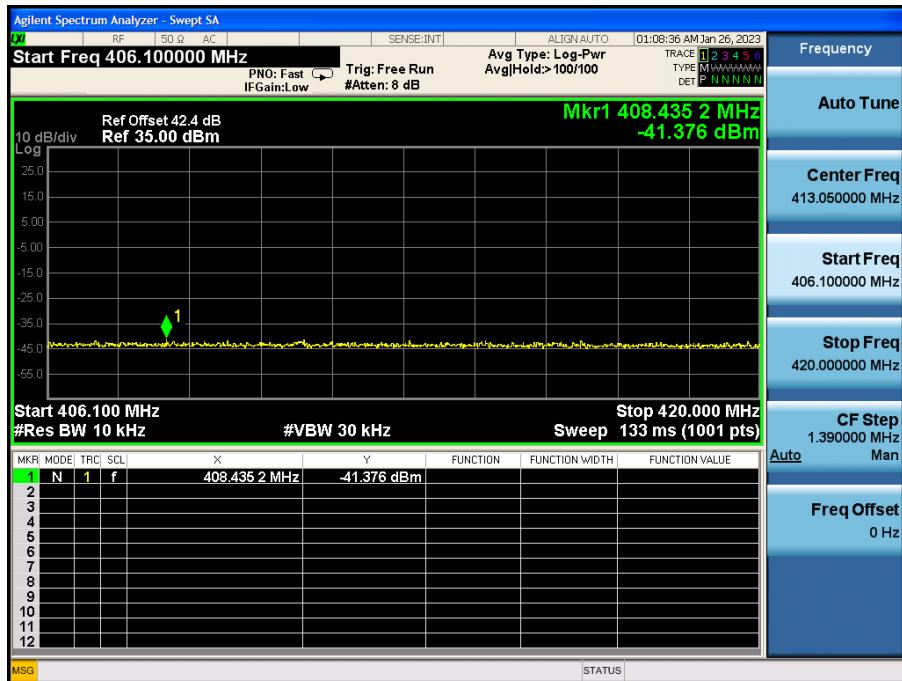
Remark:

1. ERP= conducted test level (dBm)+ antenna gain (dBi)- 2.15dB, the antenna gain is 0dBi declared by the manufacturer.
2. The ERP of worst noise within the passband is  $-41.37/10\text{kHz} + 0\text{dBi} - 2.15\text{dB} = -43.52\text{dBm}$ , which did not exceed -43dBm in 10kHz measurement bandwidth.
3. The ERP of worst noise outside of the passband is  $-40.47/10\text{kHz} + 0\text{dBi} - 2.15\text{dB} = -42.62\text{dBm}$ , the applicant must use good engineering practice to make sure that the ERP of noise outside the passband should not exceed -70dBm in 10kHz measurement bandwidth.
4. The noise 9kHz to 30MHz were very low and not displayed test plots in this report.



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**Noise within the passband****DL**

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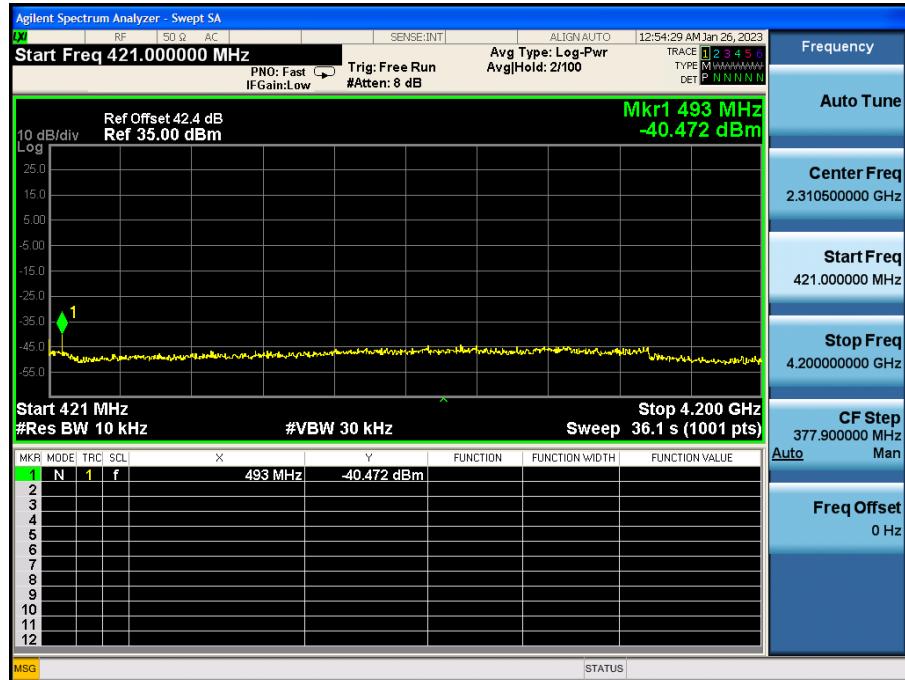
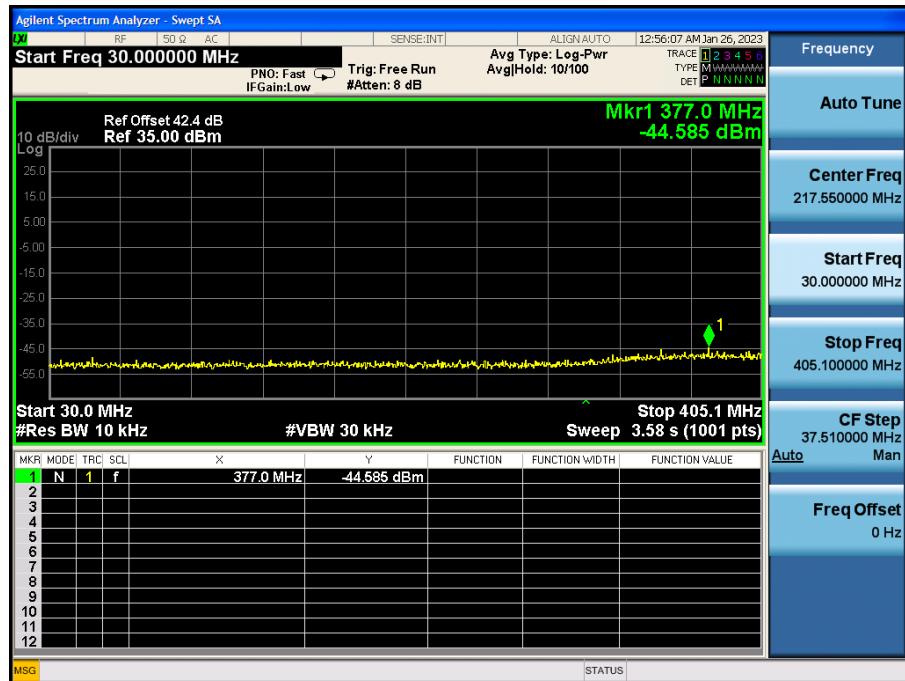


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## Noise outside the passband

DL



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**9 Frequency Stability**

Frequency stability vs voltage							
Test path	Test Signal	Test Channel	Temperature	Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	FM	MCH	TN	VL	2.3	0.00557	PASS
			TN	VH	2.3	0.00557	PASS
	DMR	MCH	TN	VL	3.1	0.00751	PASS
			TN	VH	3.1	0.00751	PASS
	C4FM	MCH	TN	VL	2.6	0.00629	PASS
			TN	VH	2.6	0.00629	PASS
	H-DQPSK	MCH	TN	VL	3.2	0.00775	PASS
			TN	VH	3.2	0.00775	PASS
	TETRA	MCH	TN	VL	2.2	0.00533	PASS
			TN	VH	2.2	0.00533	PASS

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Frequency stability vs temperature							
Test Path	Test Signal	Test Channel	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
FM	MCH	MCH	VN	+50	3.9	0.00944	PASS
			VN	+40	1.7	0.00412	PASS
			VN	+30	3.8	0.00920	PASS
			VN	+20	3.9	0.00944	PASS
			VN	+10	1.5	0.00363	PASS
			VN	0	3.6	0.00872	PASS
			VN	-10	3.6	0.00872	PASS
			VN	-20	2.1	0.00508	PASS
			VN	-30	4.1	0.00993	PASS
DL	MDR	MCH	VN	+50	3.8	0.00920	PASS
			VN	+40	2.7	0.00654	PASS
			VN	+30	1.7	0.00412	PASS
			VN	+20	1.7	0.00412	PASS
			VN	+10	2.1	0.00508	PASS
			VN	0	1.8	0.00436	PASS
			VN	-10	1.2	0.00291	PASS
			VN	-20	3.8	0.00920	PASS
			VN	-30	2.9	0.00702	PASS
C4FM	MCH	MCH	VN	+50	1.9	0.00460	PASS
			VN	+40	2.4	0.00581	PASS
			VN	+30	1.9	0.00460	PASS
			VN	+20	2.3	0.00557	PASS
			VN	+10	2.1	0.00508	PASS
			VN	0	3.5	0.00847	PASS
			VN	-10	2.8	0.00678	PASS
			VN	-20	1.3	0.00315	PASS
			VN	-30	1.5	0.00363	PASS

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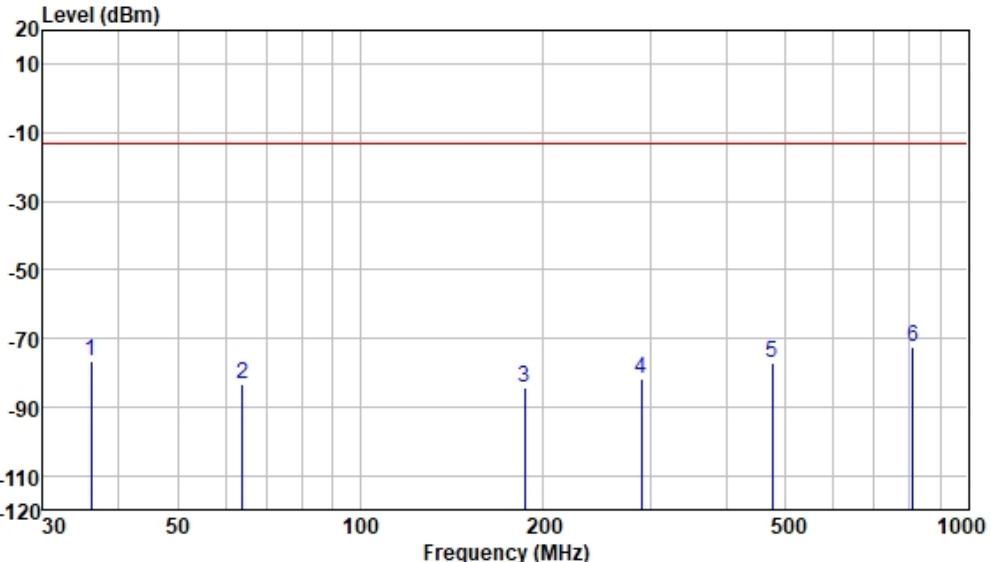
Frequency stability vs temperature							
Test Path	Test Signal	Test Channel	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	D-HQPSK	MCH	VN	+50	2.2	0.00533	PASS
			VN	+40	2.6	0.00629	PASS
			VN	+30	3.3	0.00799	PASS
			VN	+20	3.5	0.00847	PASS
			VN	+10	2.9	0.00702	PASS
			VN	0	2.4	0.00581	PASS
			VN	-10	2.8	0.00678	PASS
			VN	-20	2.4	0.00581	PASS
			VN	-30	1.5	0.00363	PASS
			VN	+50	1.4	0.00339	PASS
UL	TRTRA	MCH	VN	+40	1.8	0.00436	PASS
			VN	+30	2.6	0.00629	PASS
			VN	+20	3.4	0.00823	PASS
			VN	+10	2.3	0.00557	PASS
			VN	0	3.9	0.00944	PASS
			VN	-10	3.1	0.00751	PASS
			VN	-20	1.3	0.00315	PASS
			VN	-30	2.2	0.00533	PASS

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**10 Radiated Spurious emissions below 1GHz**

Radiated Spurious emissions																																																																				
DL_CW_MCH_30MHz-1GHz_Horizontal																																																																				
																																																																				
<table><thead><tr><th>Freq</th><th>Read Level</th><th>Correction Factor</th><th>Level</th><th>Limit Line</th><th>Over Limit</th><th>Pol/Phase</th></tr><tr><th>MHz</th><th>dBm</th><th>dB</th><th>dBm</th><th>dBm</th><th>dB</th><th></th></tr></thead><tbody><tr><td>1</td><td>36.00</td><td>-79.51</td><td>2.72</td><td>-76.79</td><td>-13.00</td><td>-63.79</td><td>HORIZONTAL</td></tr><tr><td>2</td><td>63.98</td><td>-79.15</td><td>-3.92</td><td>-83.07</td><td>-13.00</td><td>-70.07</td><td>HORIZONTAL</td></tr><tr><td>3</td><td>186.44</td><td>-78.32</td><td>-6.17</td><td>-84.49</td><td>-13.00</td><td>-71.49</td><td>HORIZONTAL</td></tr><tr><td>4</td><td>290.02</td><td>-79.09</td><td>-2.72</td><td>-81.81</td><td>-13.00</td><td>-68.81</td><td>HORIZONTAL</td></tr><tr><td>5</td><td>475.50</td><td>-77.69</td><td>0.34</td><td>-77.35</td><td>-13.00</td><td>-64.35</td><td>HORIZONTAL</td></tr><tr><td>6</td><td>810.27</td><td>-79.52</td><td>6.98</td><td>-72.54</td><td>-13.00</td><td>-59.54</td><td>HORIZONTAL</td></tr></tbody></table>							Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase	MHz	dBm	dB	dBm	dBm	dB		1	36.00	-79.51	2.72	-76.79	-13.00	-63.79	HORIZONTAL	2	63.98	-79.15	-3.92	-83.07	-13.00	-70.07	HORIZONTAL	3	186.44	-78.32	-6.17	-84.49	-13.00	-71.49	HORIZONTAL	4	290.02	-79.09	-2.72	-81.81	-13.00	-68.81	HORIZONTAL	5	475.50	-77.69	0.34	-77.35	-13.00	-64.35	HORIZONTAL	6	810.27	-79.52	6.98	-72.54	-13.00	-59.54	HORIZONTAL
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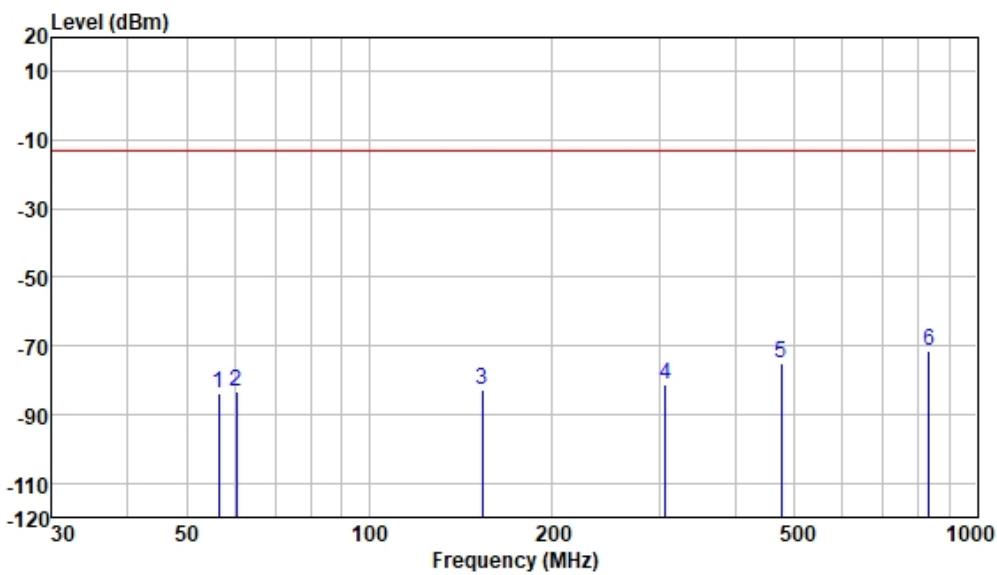


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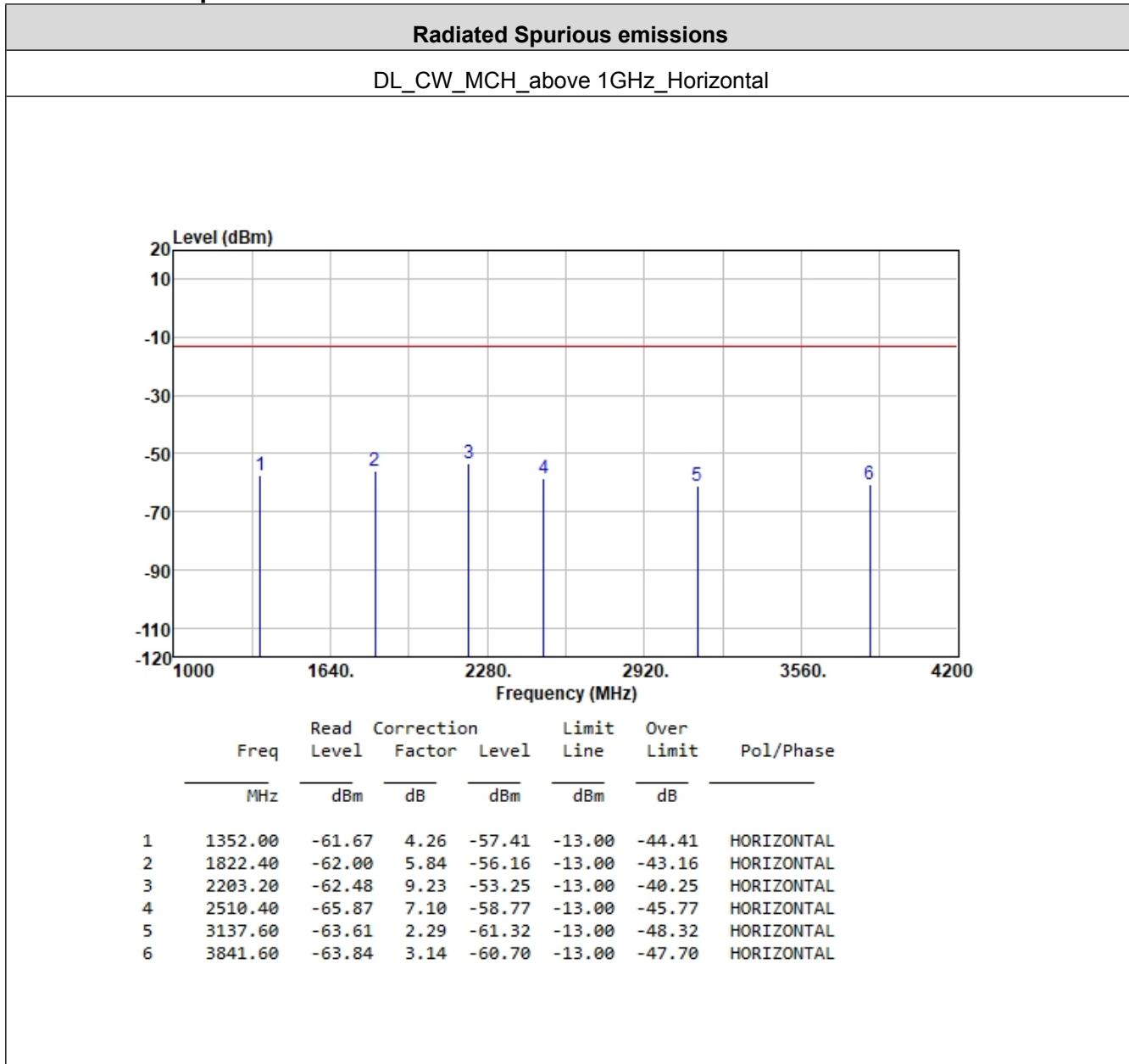
**Radiated Spurious emissions****DL\_CW\_MCH\_30MHz-1GHz\_Vertical****Remark:**

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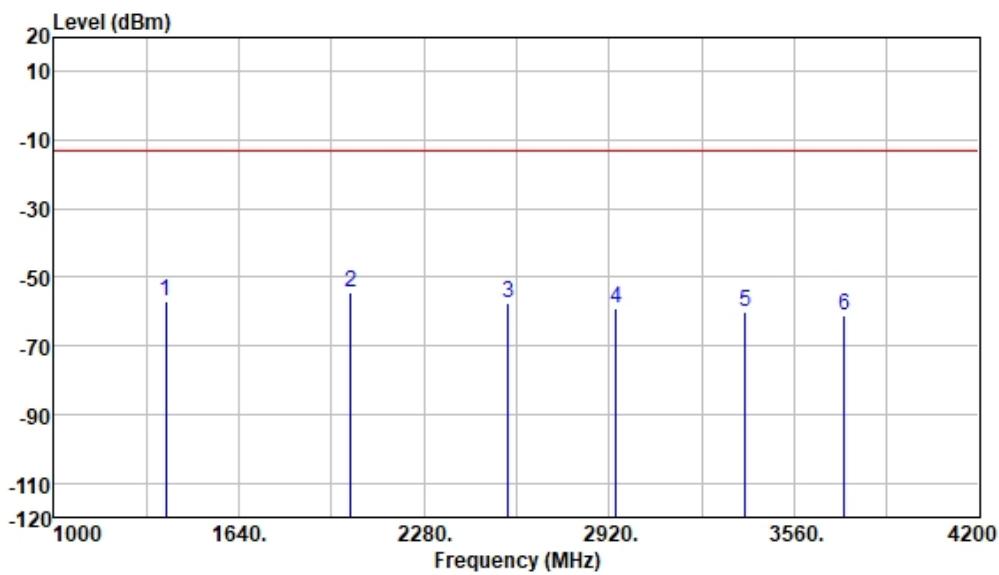
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## 11 Radiated Spurious emissions above 1GHz



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**Radiated Spurious emissions****DL\_CW\_MCH\_above 1GHz\_Vertical****--End of Appendix--**

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