



SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

EMC-ARF-05 Rev 1.1

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FCC ID: P8XRH14V3-A

Appendix -

Test Data and Result for report

GZCR250400053501 (B)

(For UHF-1: 406.1-420MHz)



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch, EMC Services Co., Ltd. EMC Laboratory

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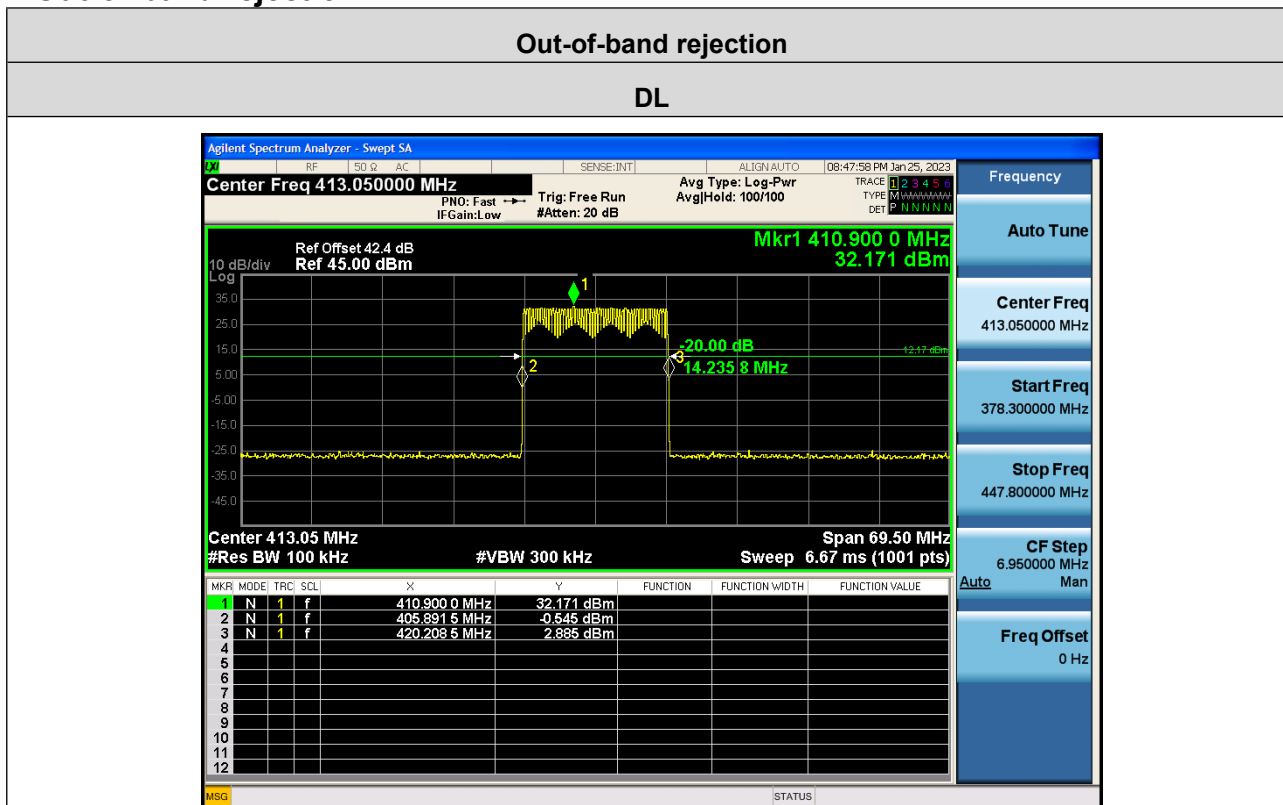
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1 Out-of-band rejection



1. The peak of the frequency response f_0 is 410.9MHz.
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

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.				

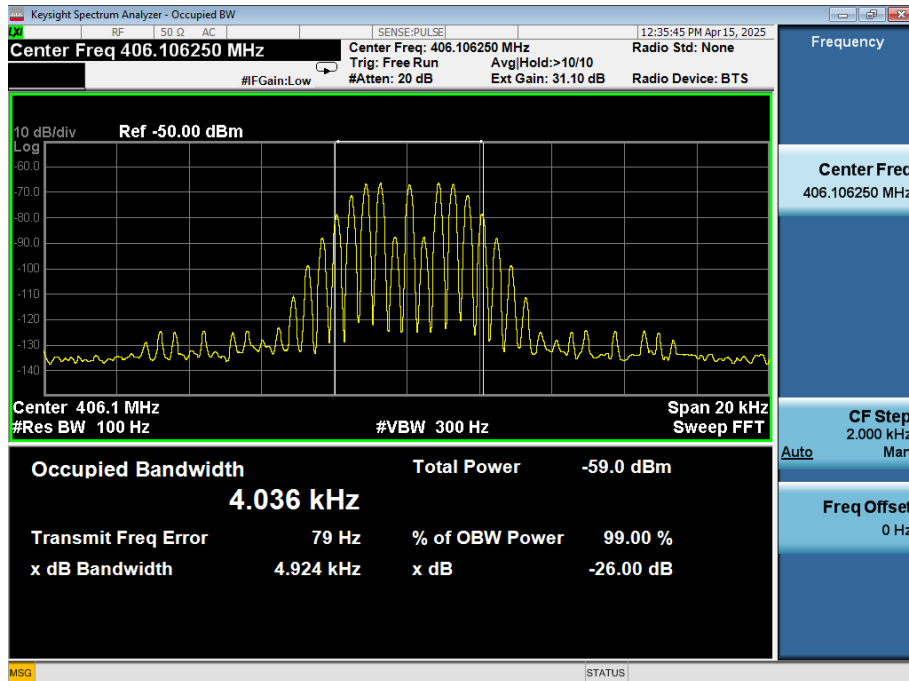


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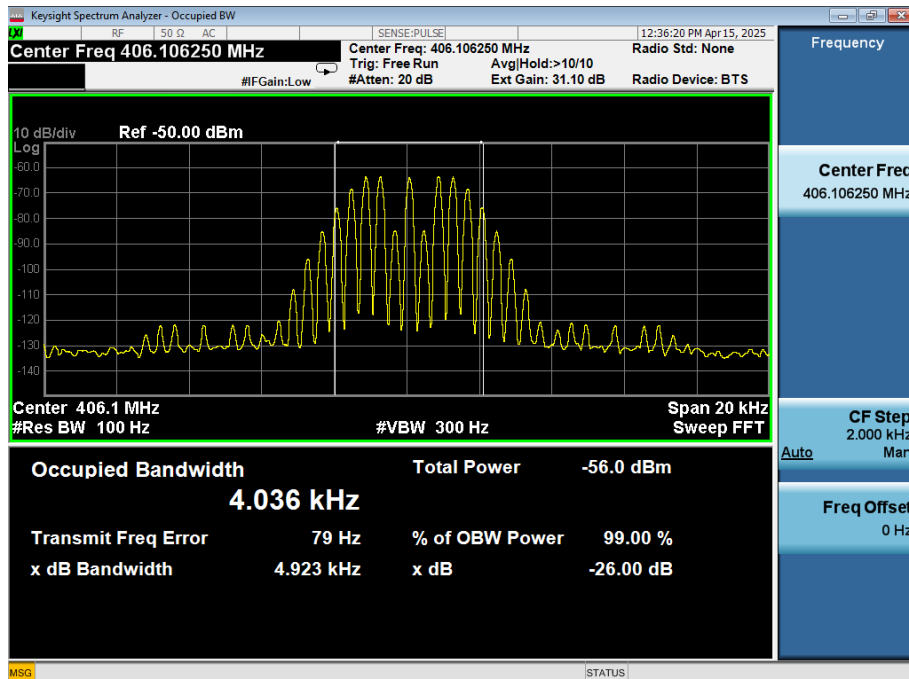
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DL_FM_LCH_Input_Pre-AGC



DL_FM_LCH_Input_3dB above AGC

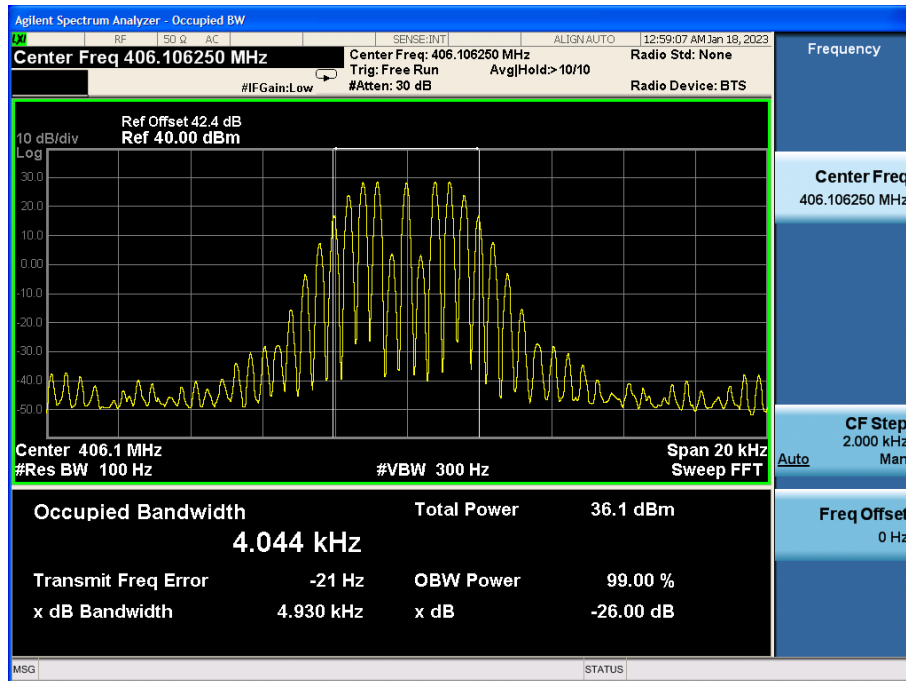


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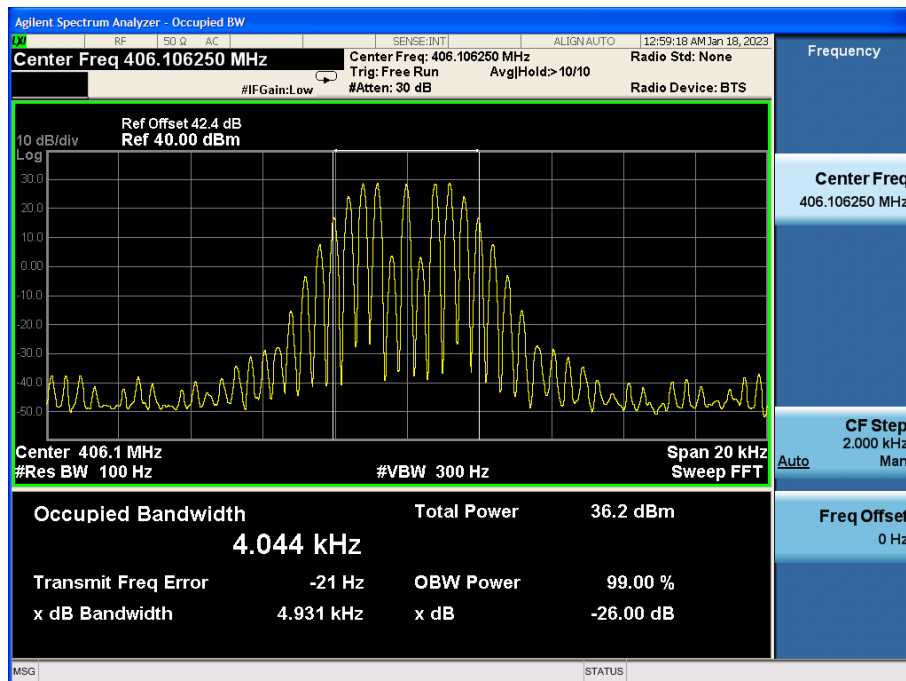
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DL_FM_LCH_Output_Pre-AGC



DL_FM_LCH_Output_3dB above AGC

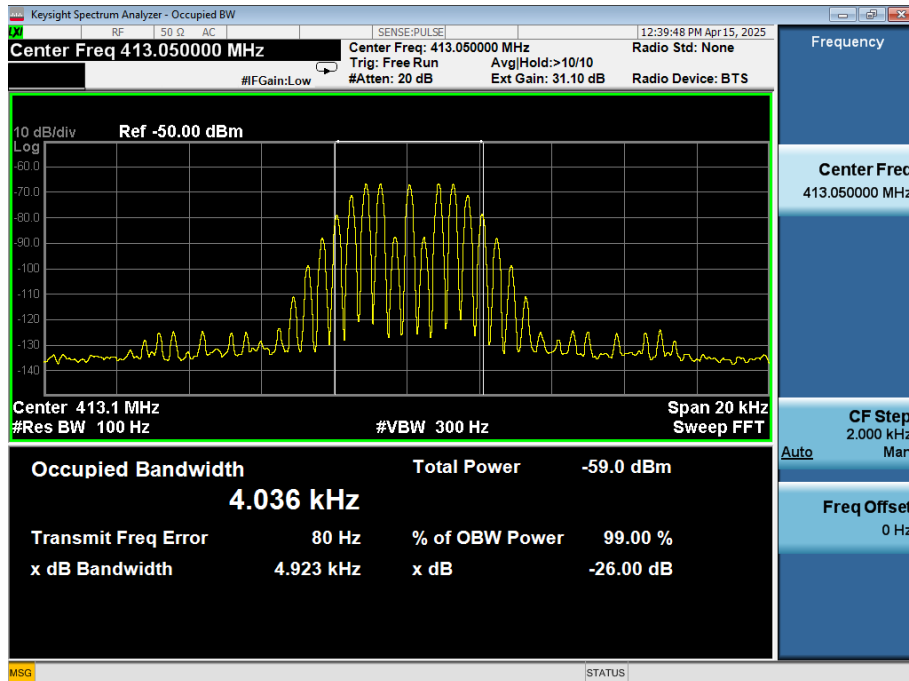


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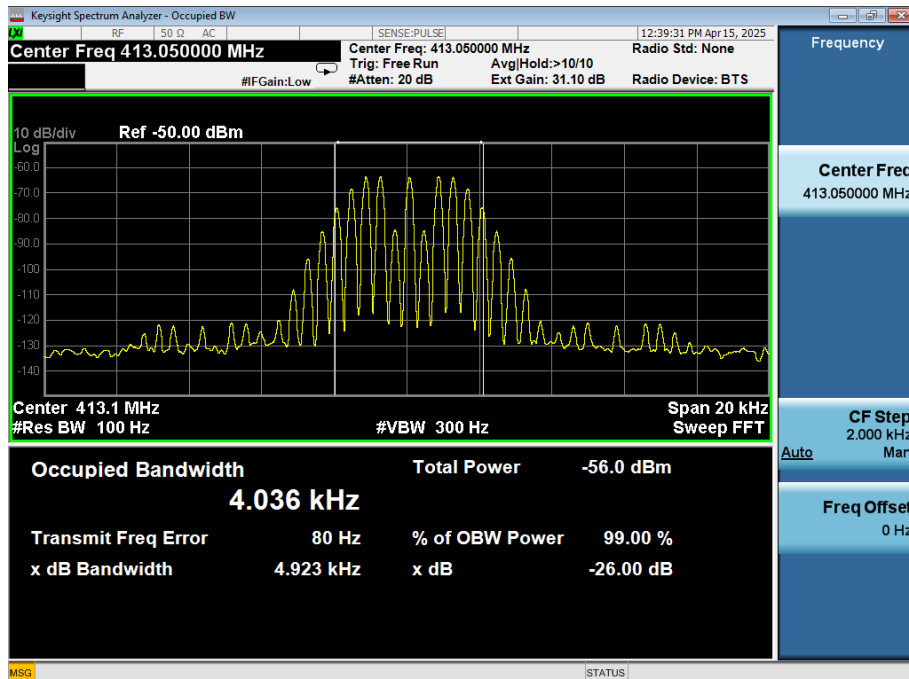
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DL_FM_MCH_Input_Pre-AGC



DL_FM_MCH_Input_3dB above AGC

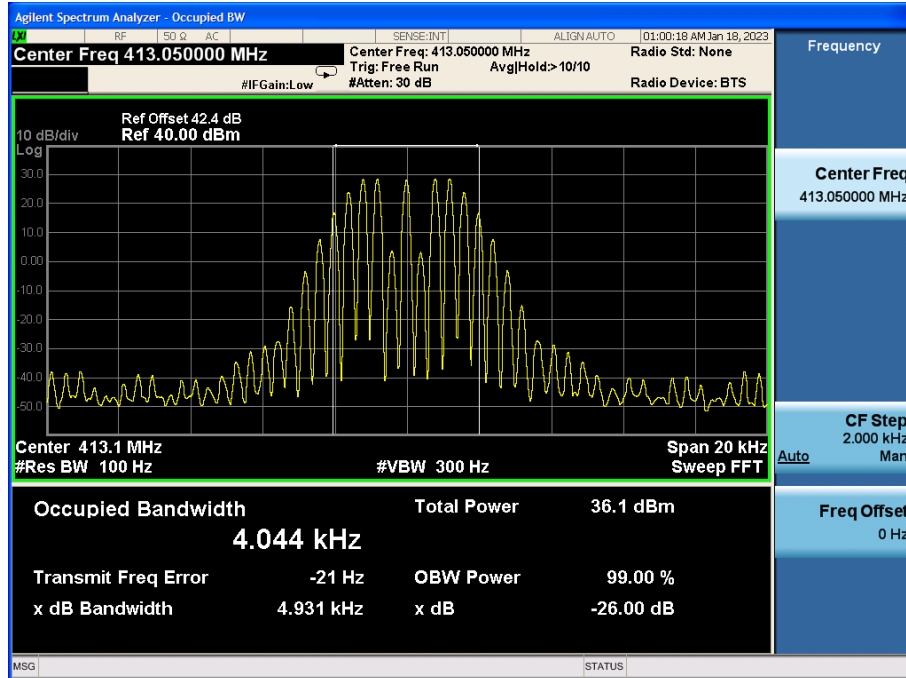


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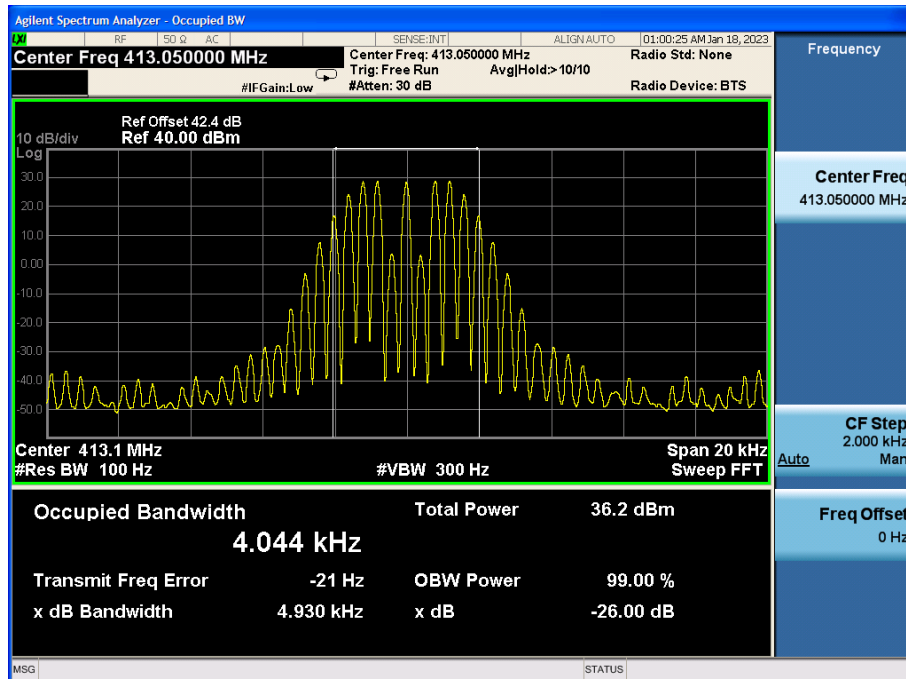
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DL_FM_MCH_Output_Pre-AGC



DL_FM_MCH_Output_3dB above AGC

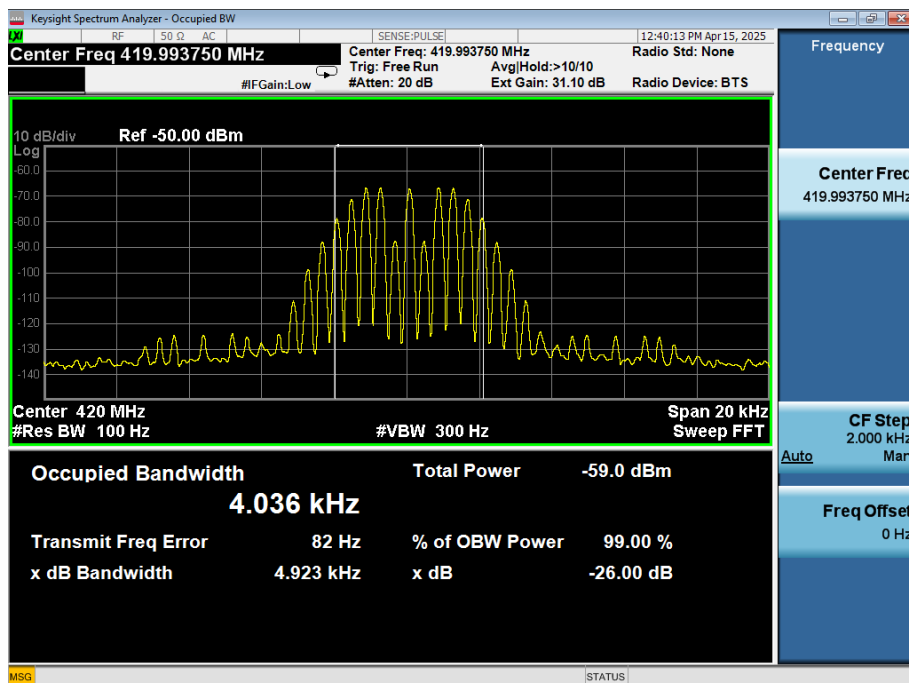


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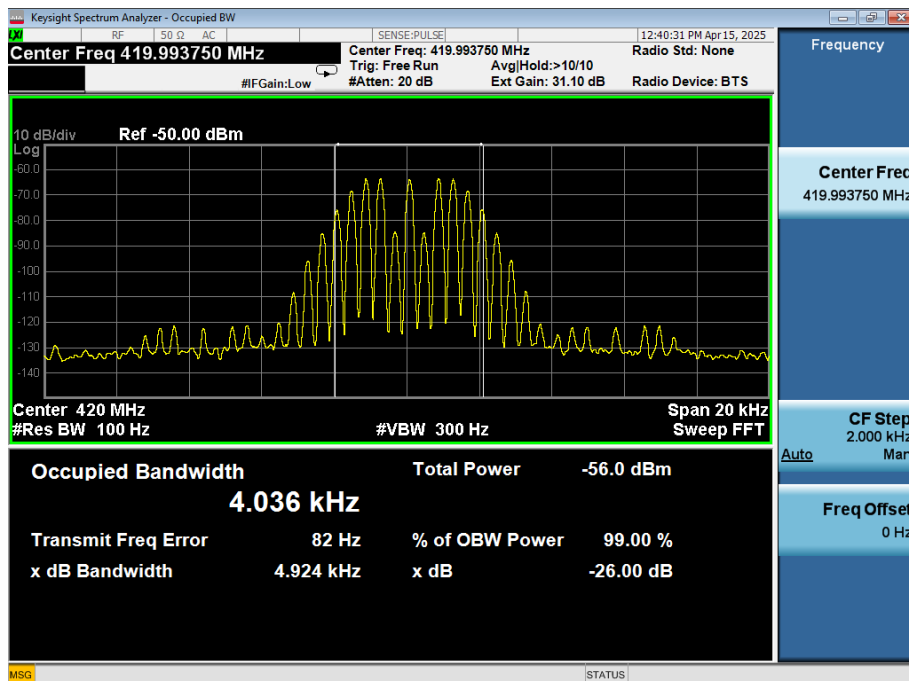
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DL_FM_HCH_Input_Pre-AGC



DL_FM_HCH_Input_3dB above AGC

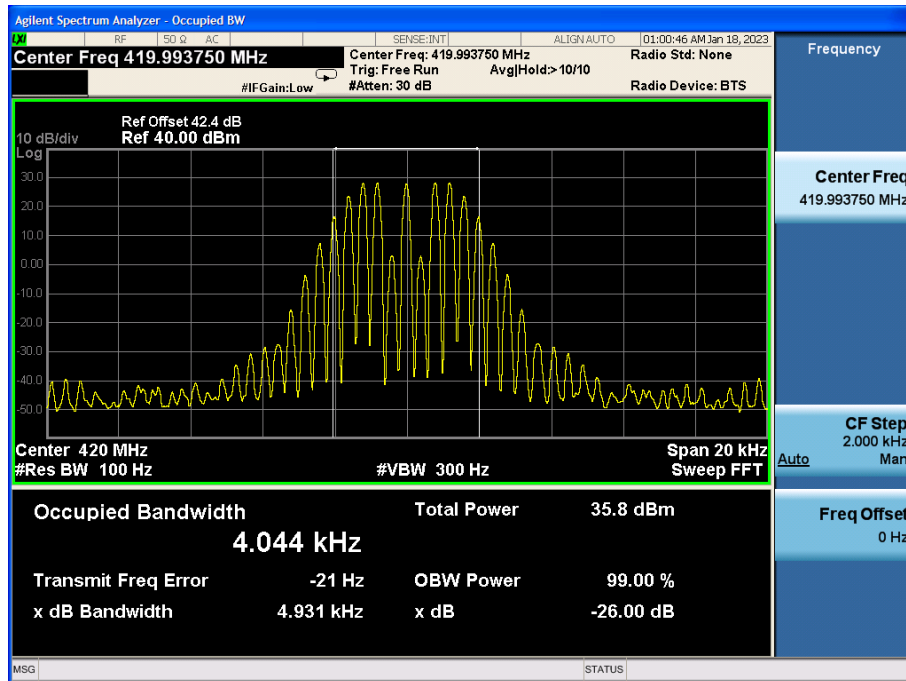


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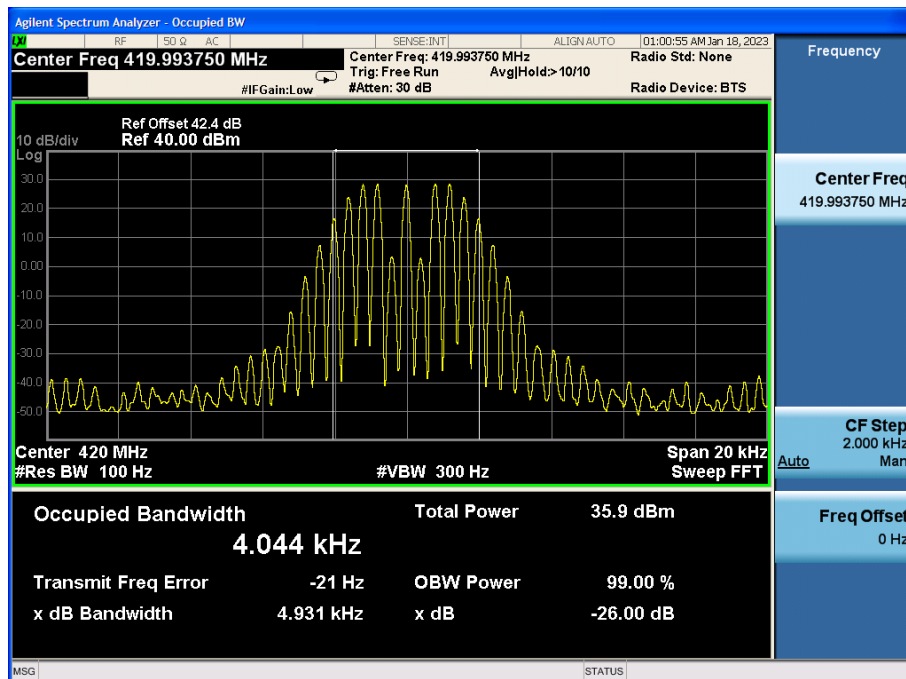
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DL_FM_HCH_Output_Pre-AGC



DL_FM_HCH_Output_3dB above AGC

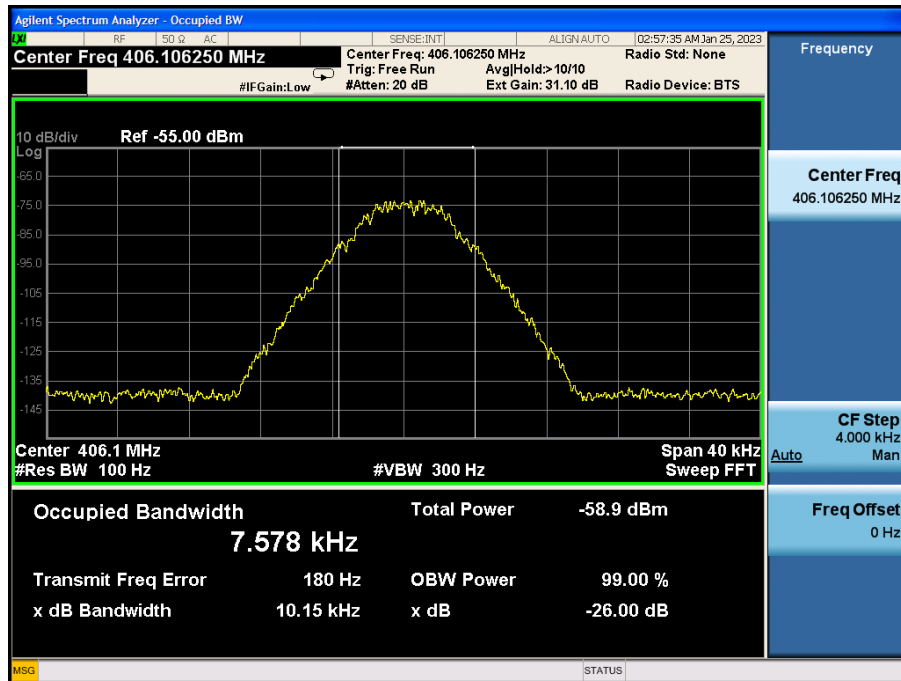


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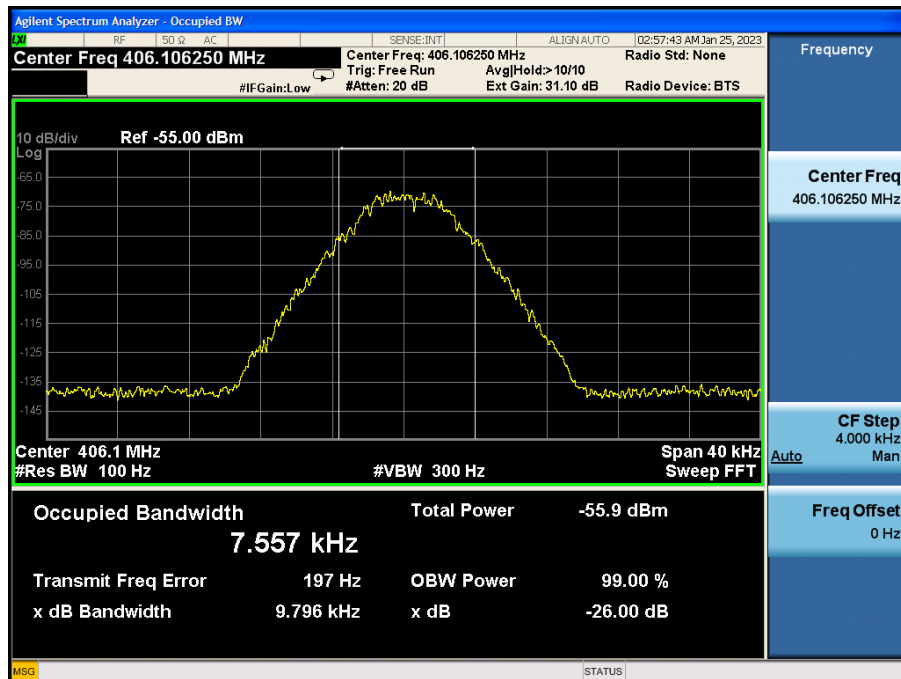
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DL_DMR_LCH_Input_Pre-AGC



DL_DMR_LCH_Input_3dB above AGC

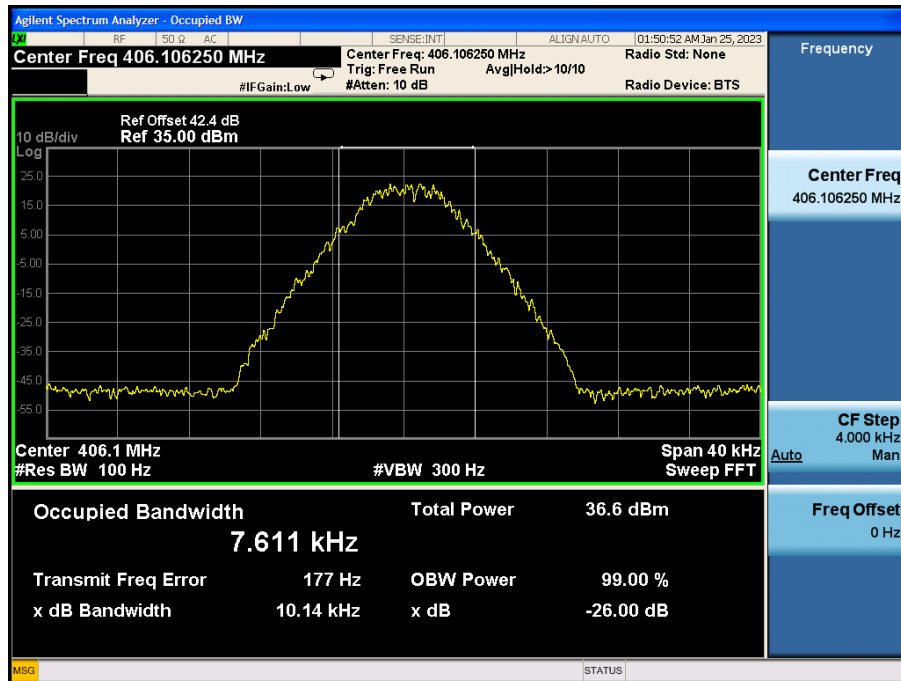


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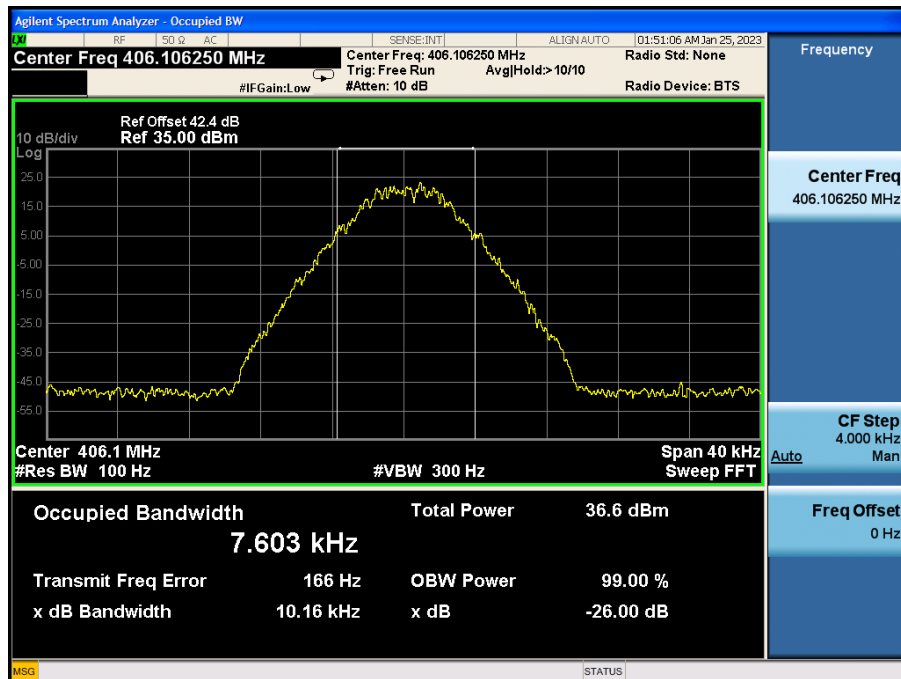
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DL_DMR_LCH_Output_Pre-AGC

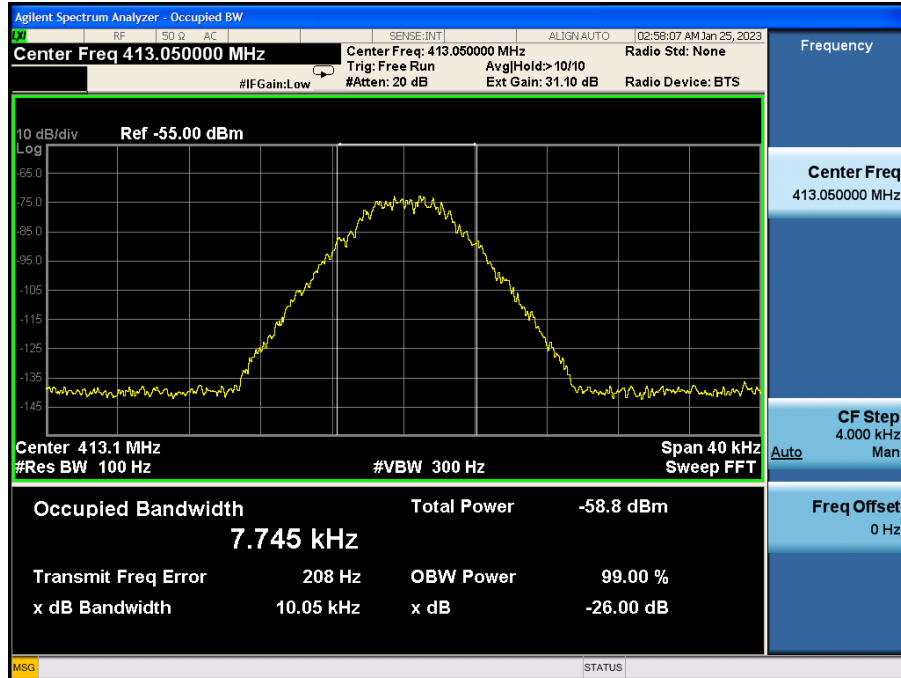


DL_DMR_LCH_Output_3dB above AGC

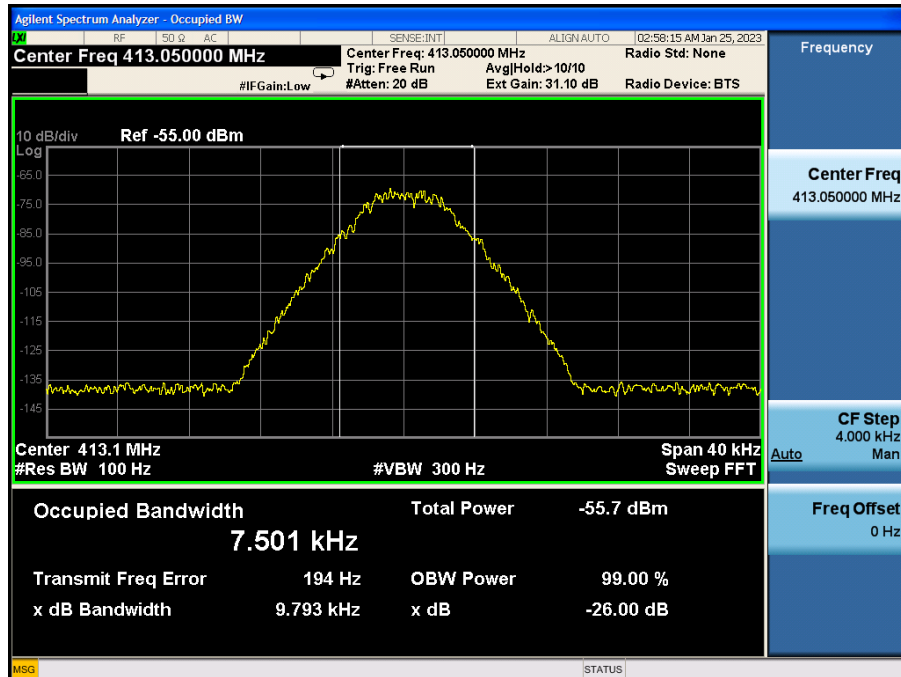


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DL_DMR_MCH_Input_Pre-AGC



DL_DMR_MCH_Input_3dB above AGC

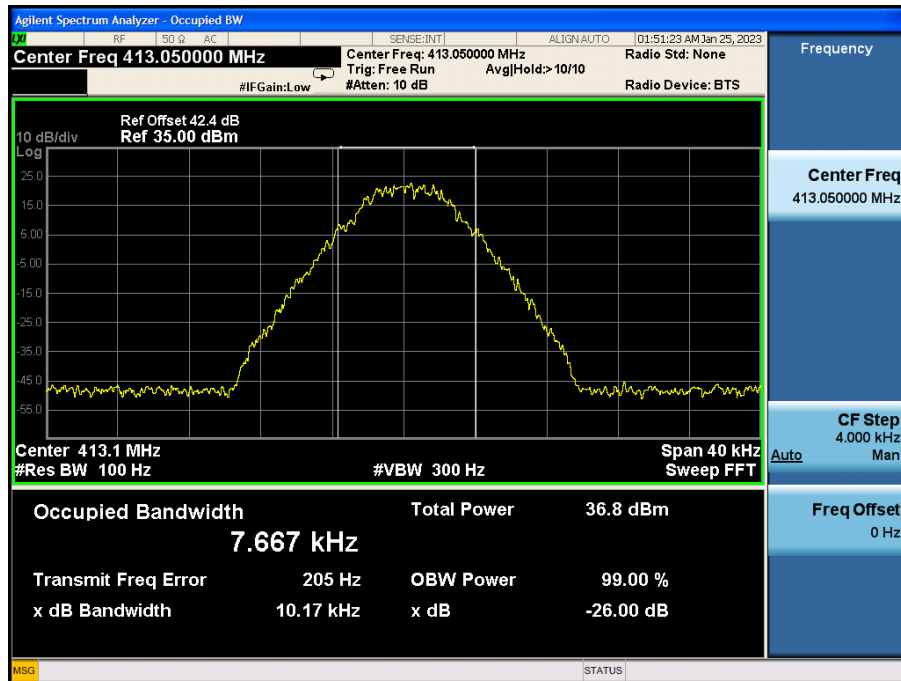


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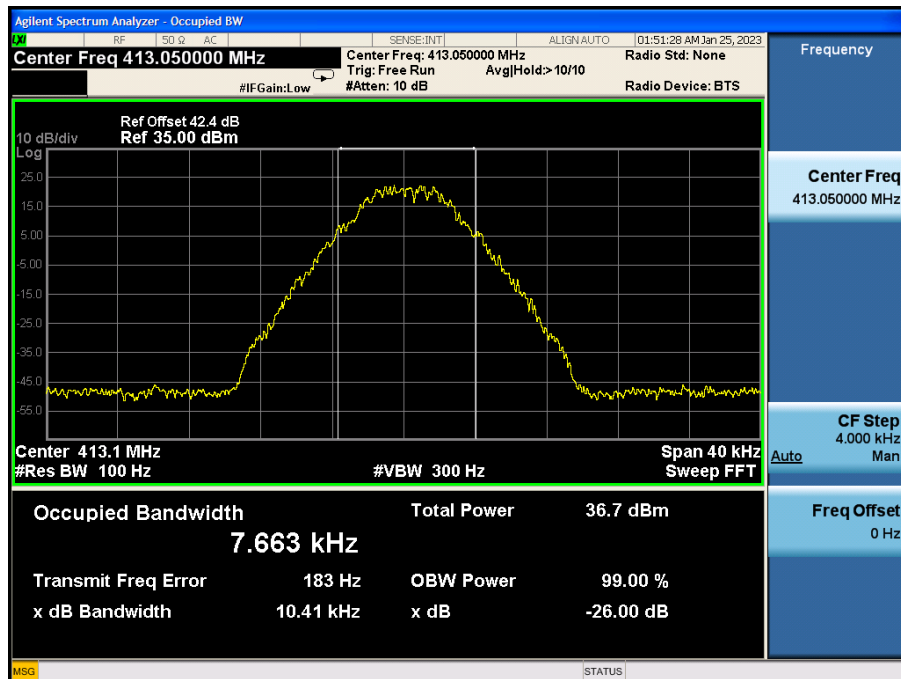
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DL_DMR_MCH_Output_Pre-AGC



DL_DMR_MCH_Output_3dB above AGC

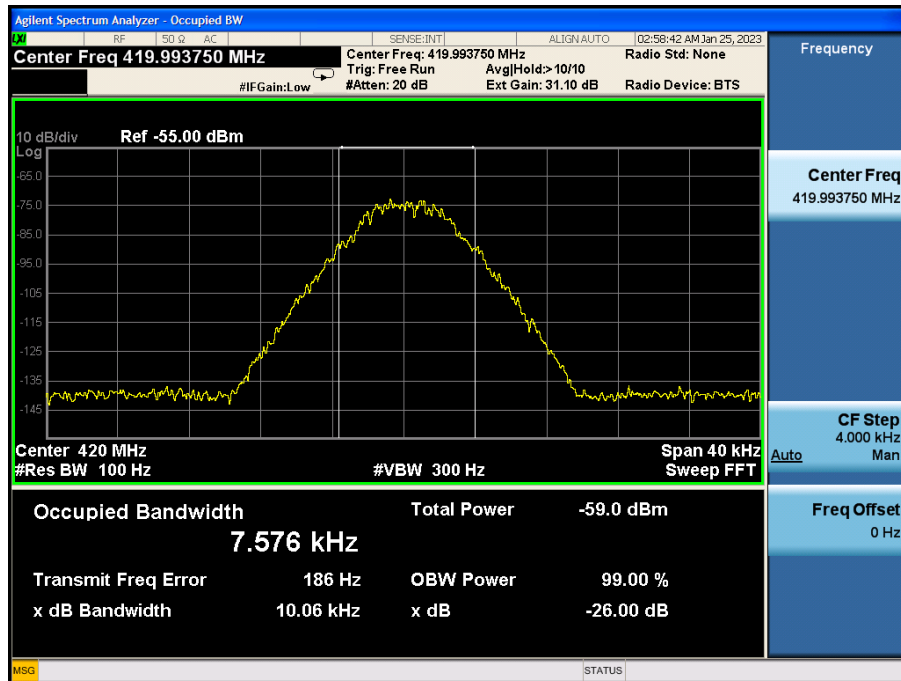


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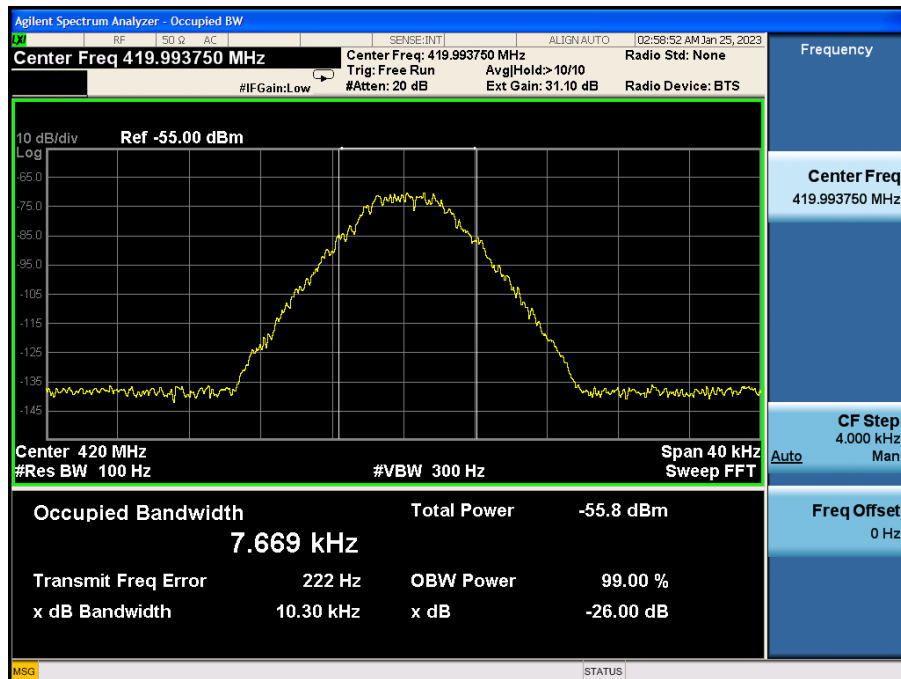
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DL_DMR_HCH_Input_Pre-AGC



DL_DMR_HCH_Input_3dB above AGC

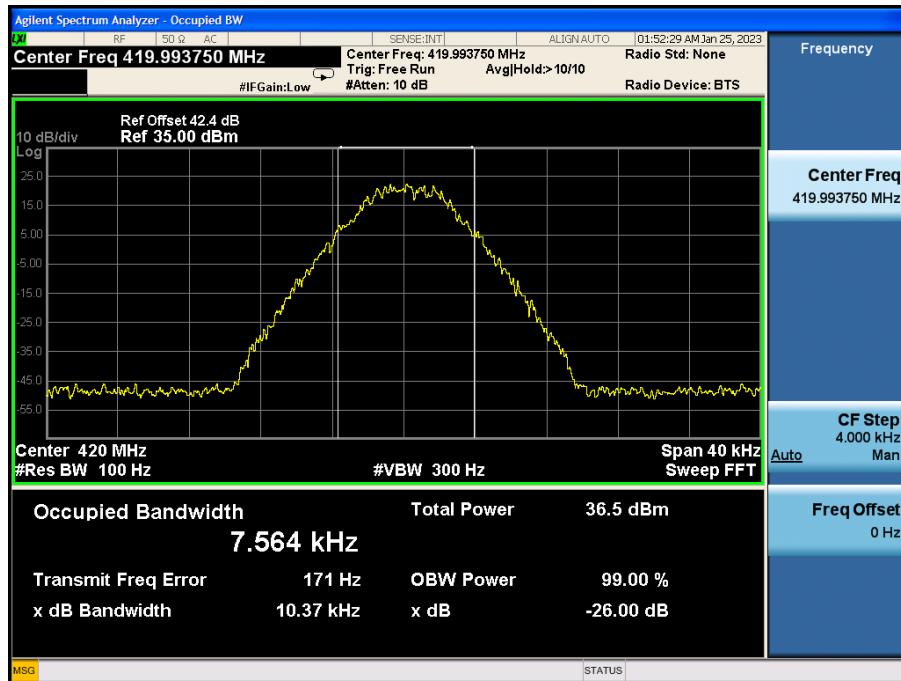


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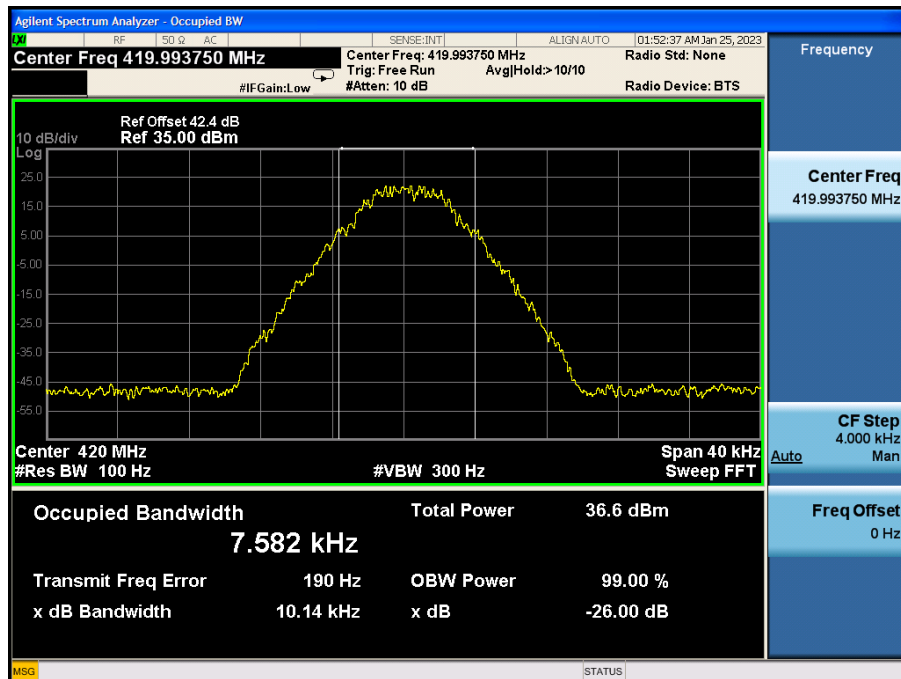
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DL_DMR_HCH_Output_Pre-AGC



DL_DMR_HCH_Output_3dB above AGC



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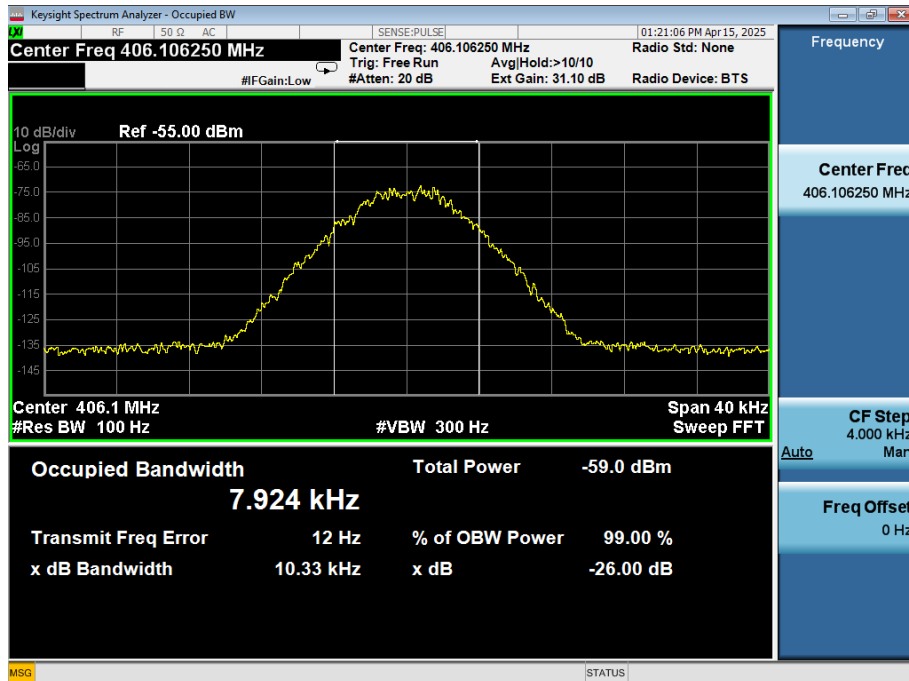
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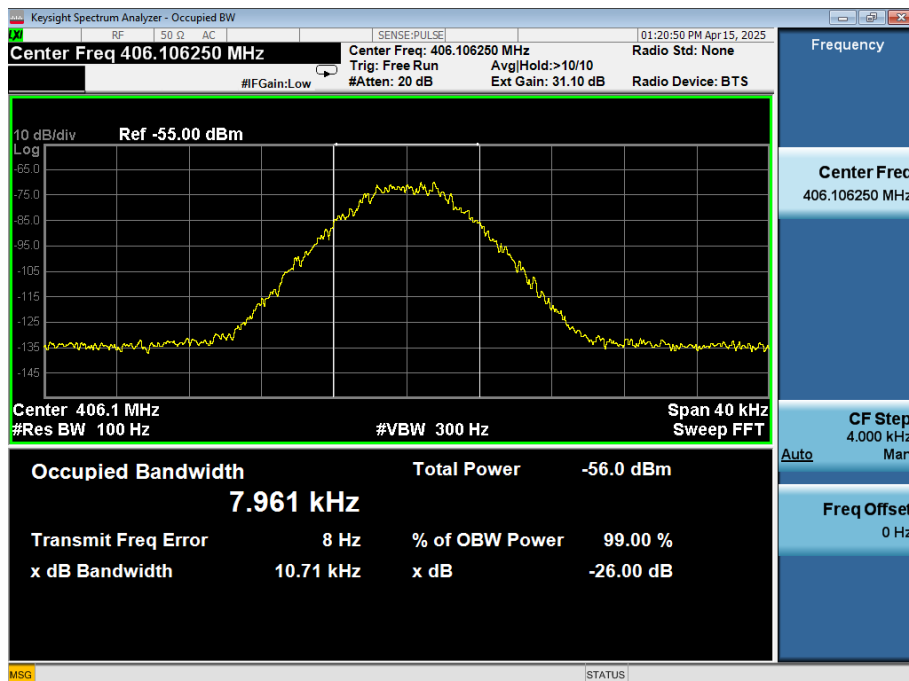
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DL_C4FM_LCH_Input_Pre-AGC



DL_C4FM_LCH_Input_3dB above AGC

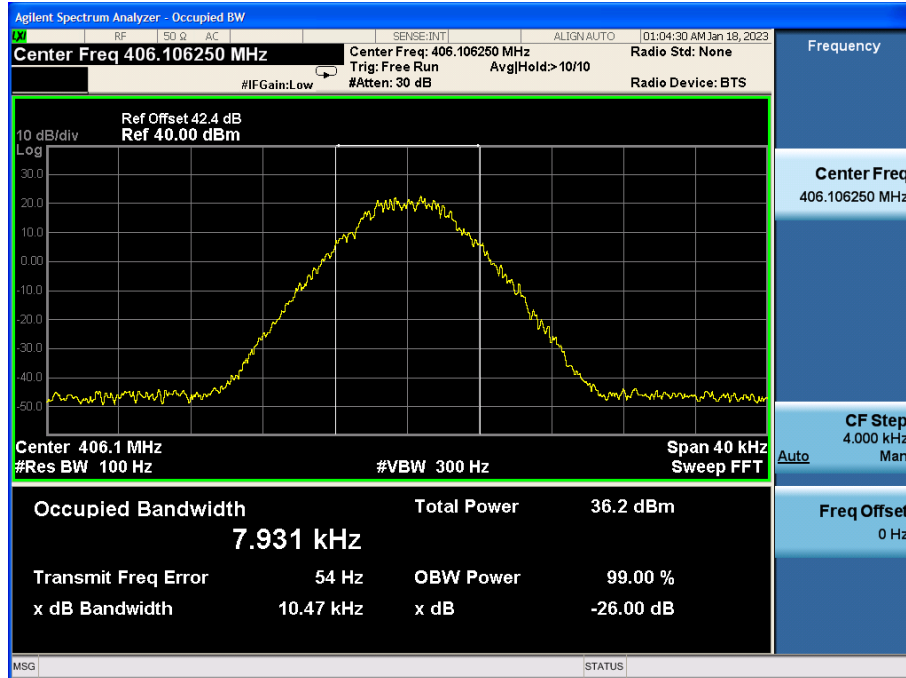


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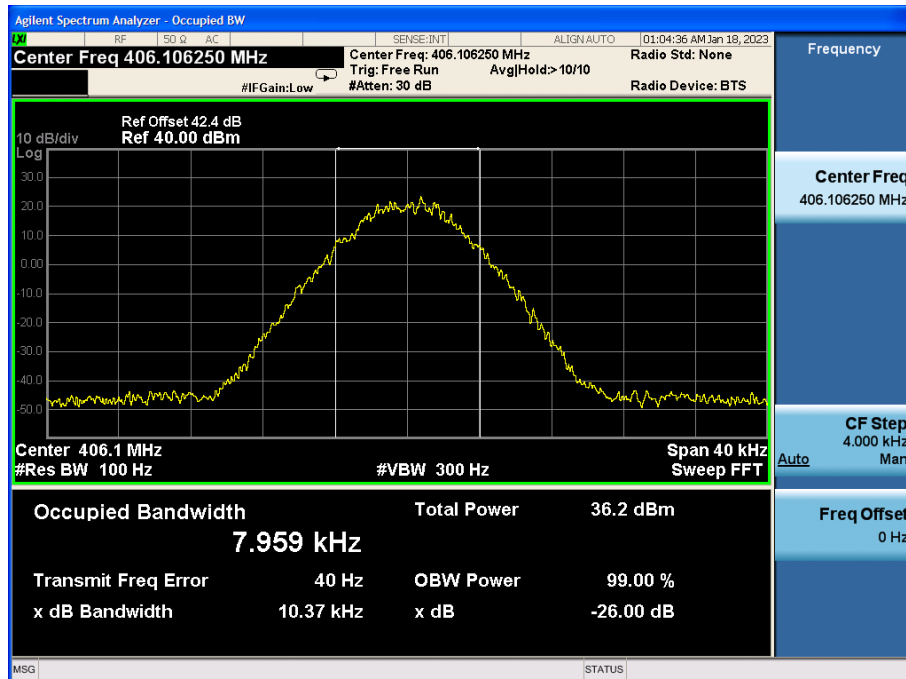
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DL_C4FM_LCH_Output_Pre-AGC



DL_C4FM_LCH_Output_3dB above AGC

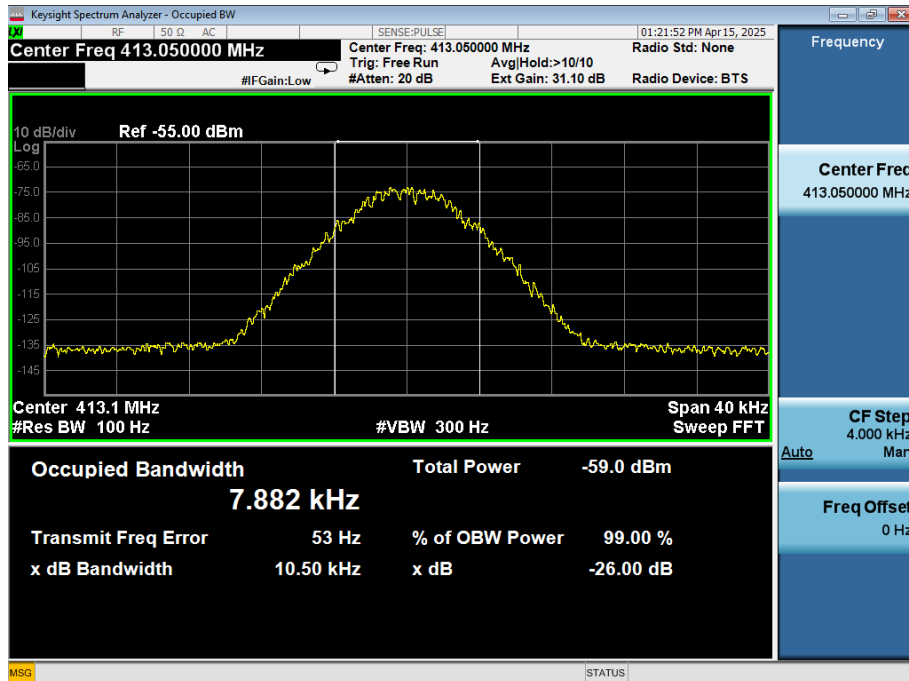


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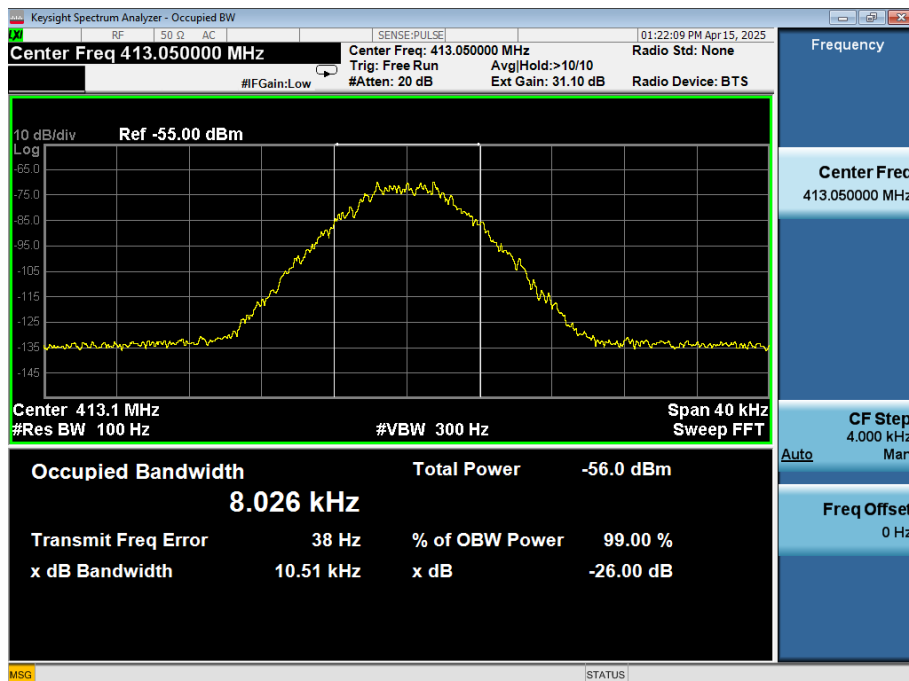
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99% OBW

DL_C4FM_MCH_Input_Pre-AGC



DL_C4FM_MCH_Input_3dB above AGC

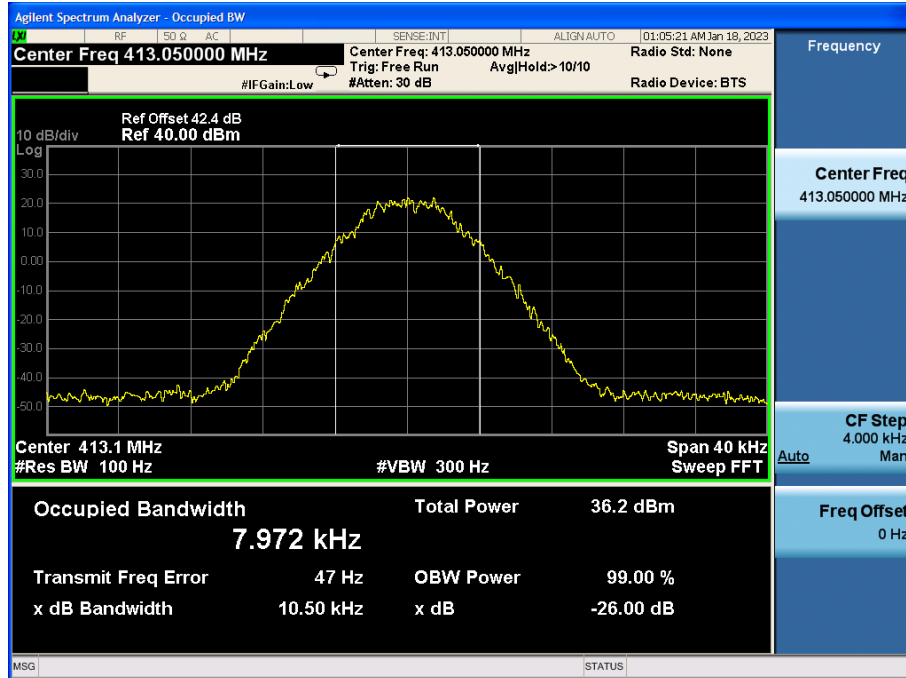


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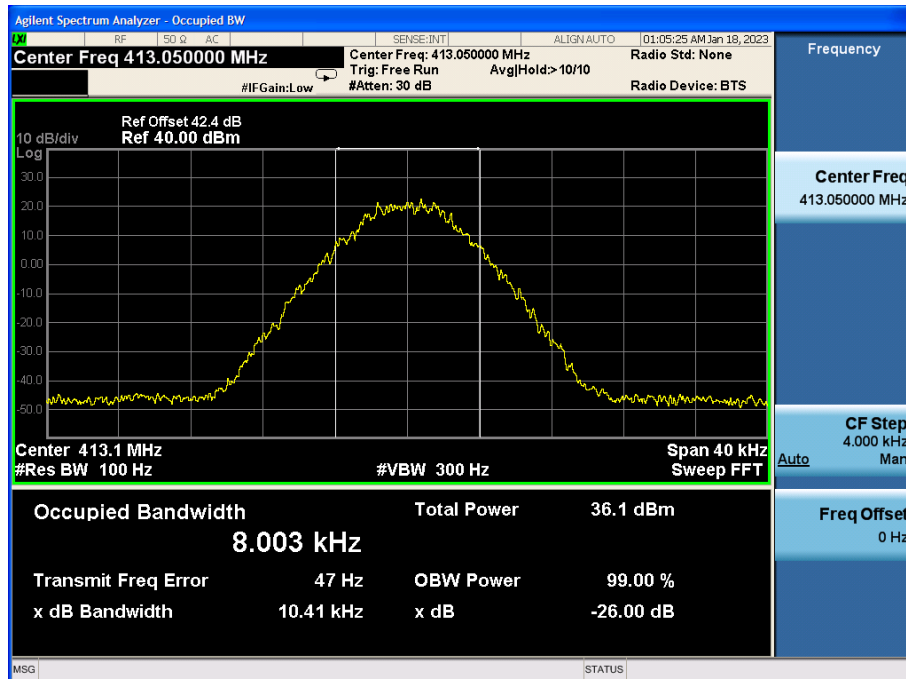
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99% OBW

DL_C4FM_MCH_Output_Pre-AGC



DL_C4FM_MCH_Output_3dB above AGC

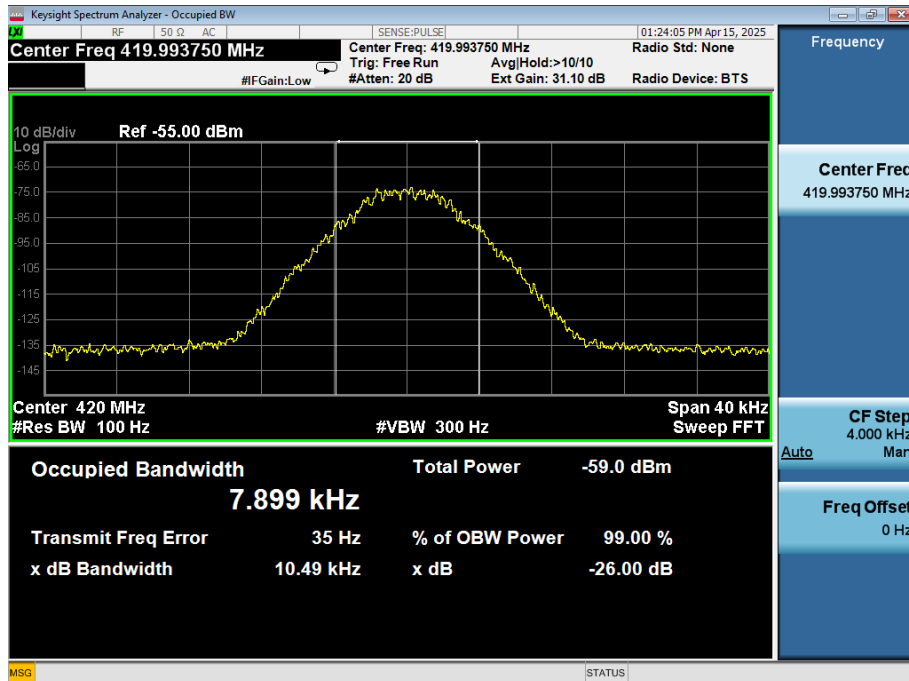


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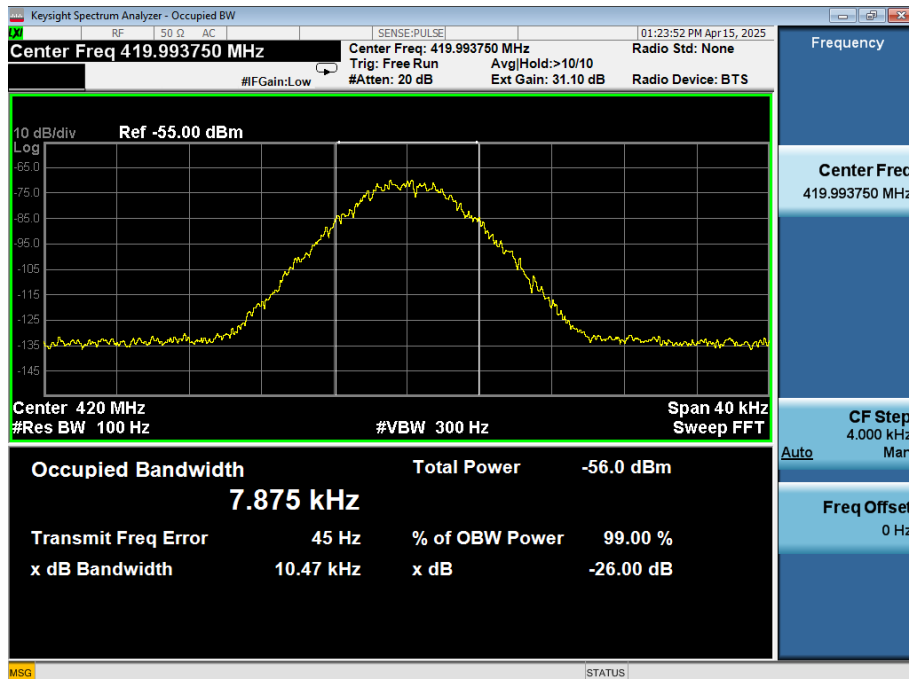
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99% OBW

DL_C4FM_HCH_Input_Pre-AGC



DL_C4FM_HCH_Input_3dB above AGC

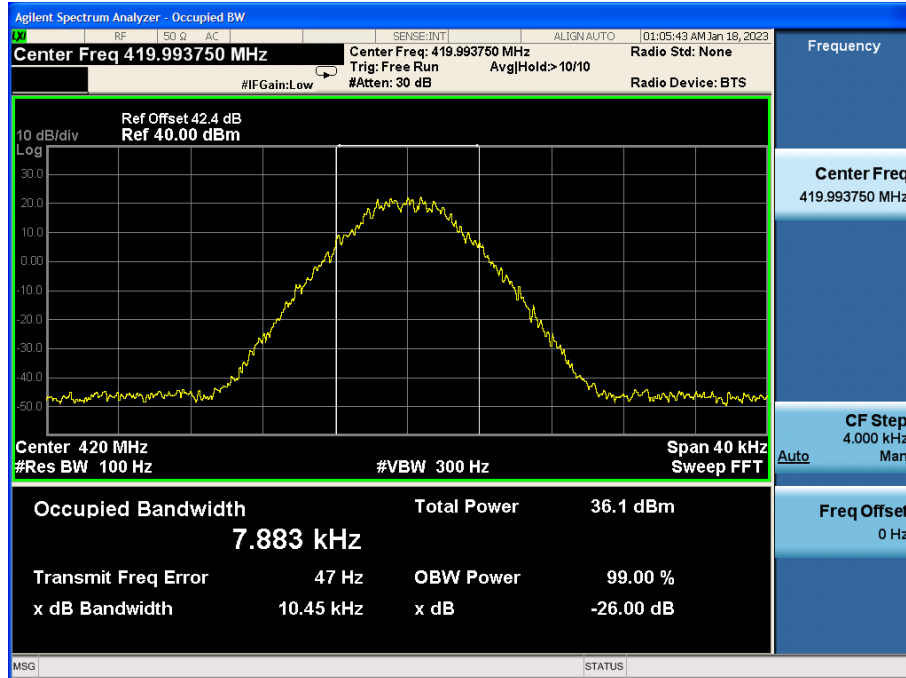


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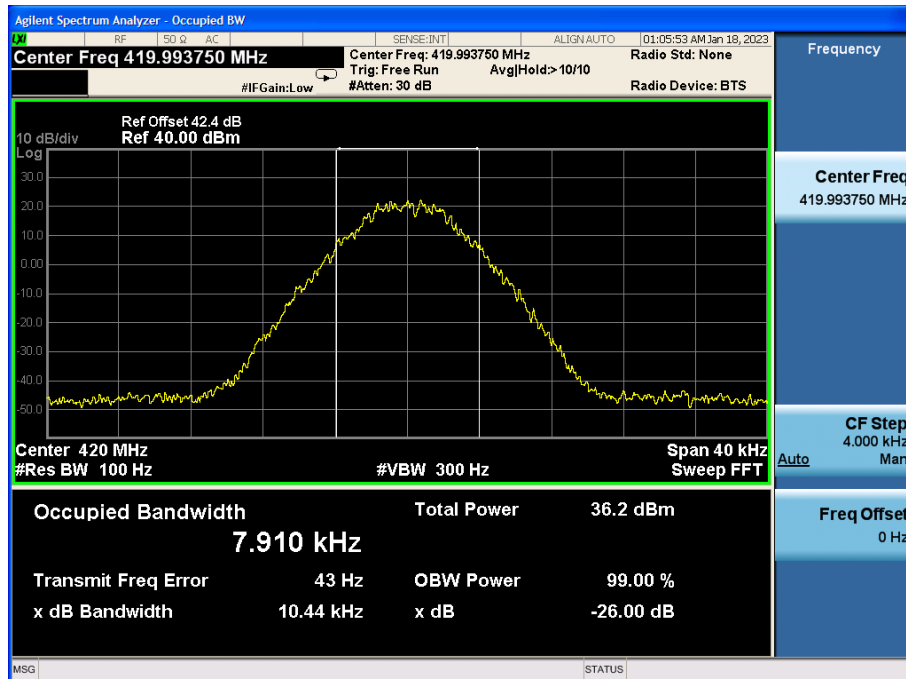
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99% OBW

DL_C4FM_HCH_Output_Pre-AGC



DL_C4FM_HCH_Output_3dB above AGC

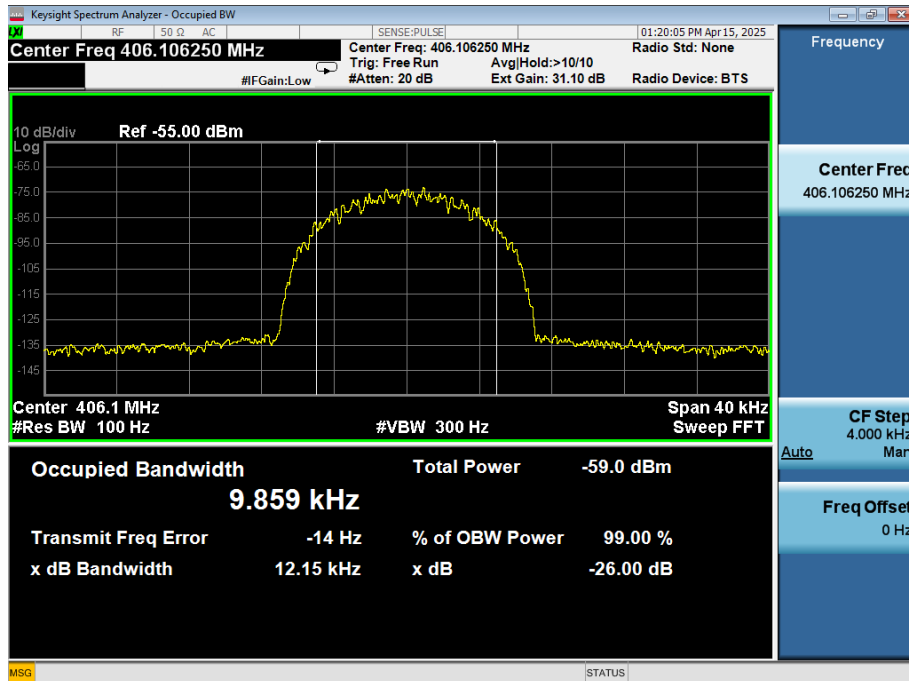


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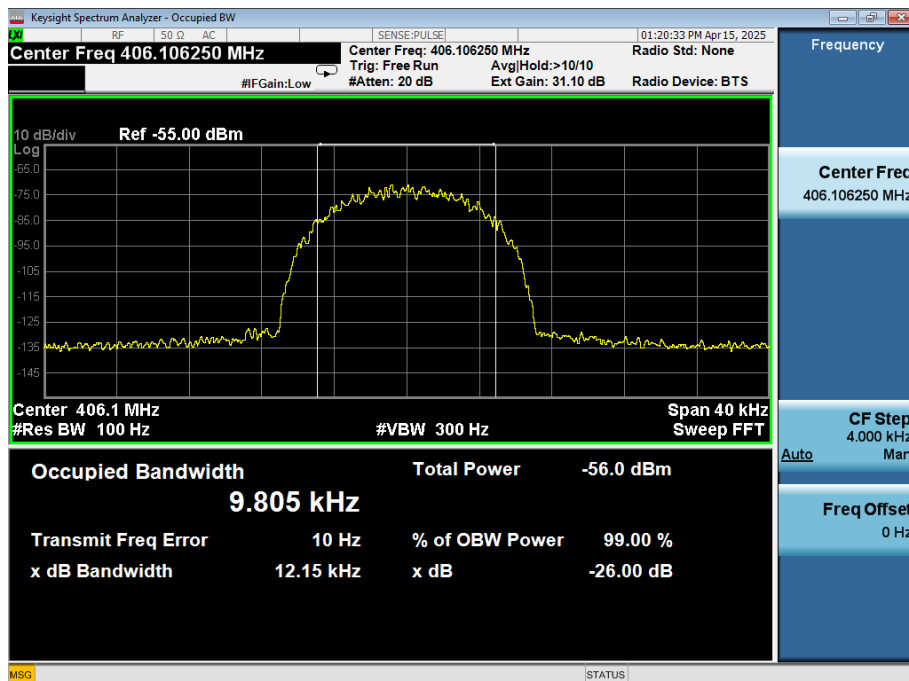
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99% OBW

DL_H-DQPSK_LCH_Input_Pre-AGC



DL_H-DQPSK_LCH_Input_3dB above AGC

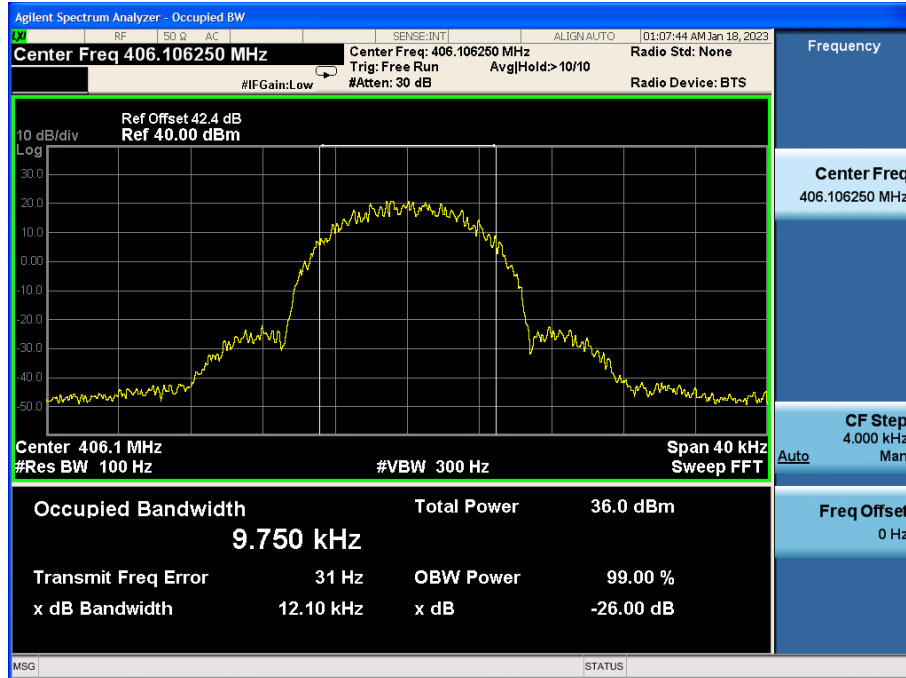


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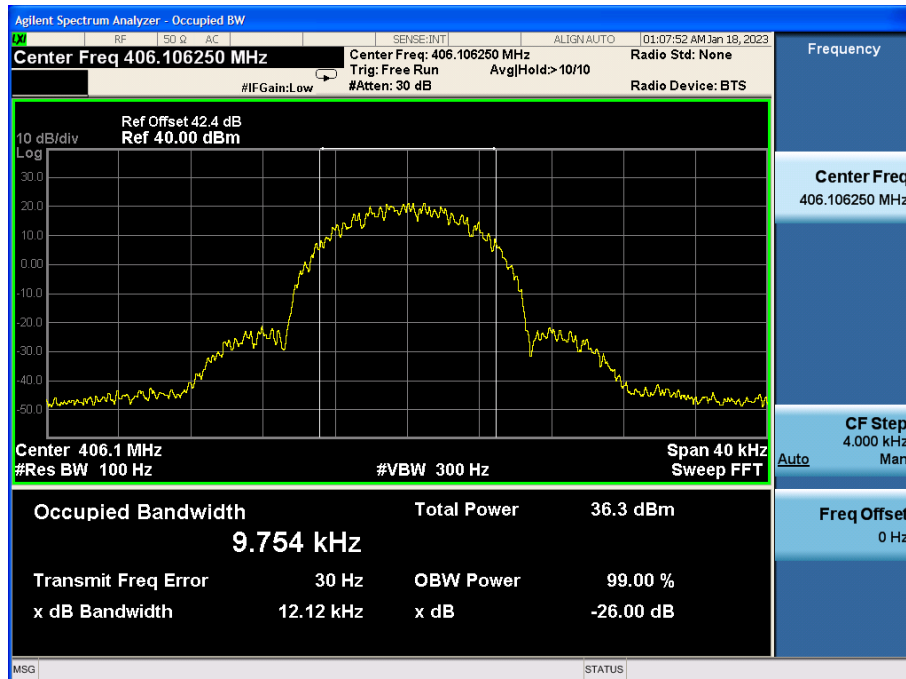
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DL_H-DQPSK_LCH_Output_Pre-AGC



DL_H-DQPSK_LCH_Output_3dB above AGC

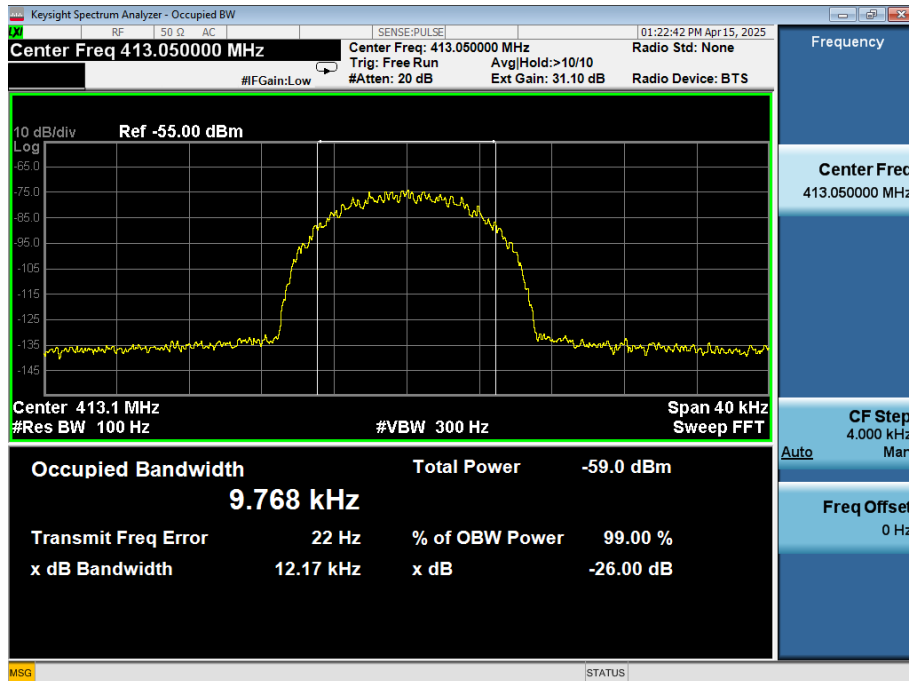


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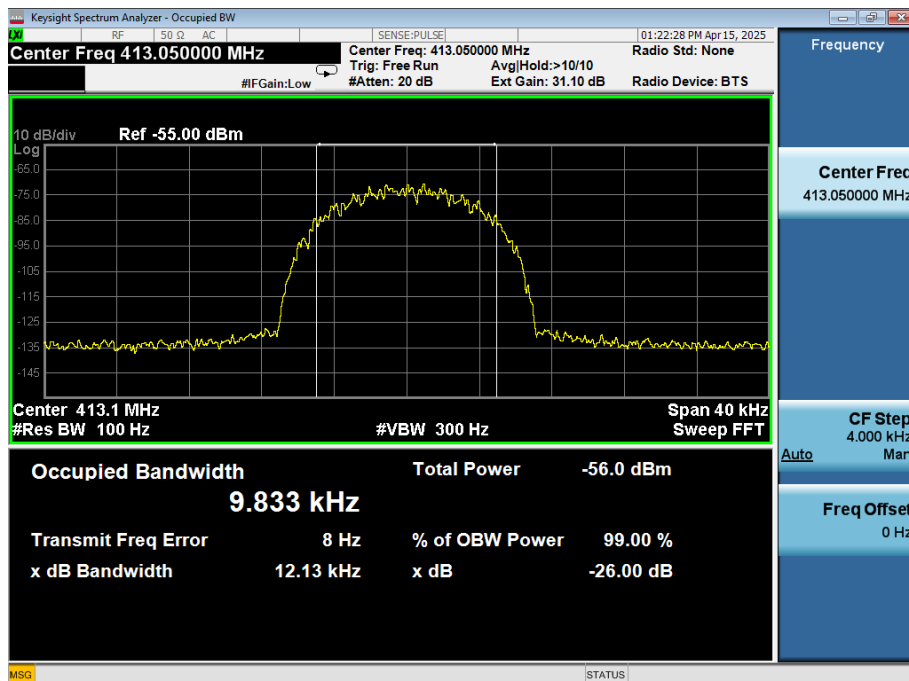
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DL_H-DQPSK_MCH_Input_Pre-AGC



DL_H-DQPSK_MCH_Input_3dB above AGC



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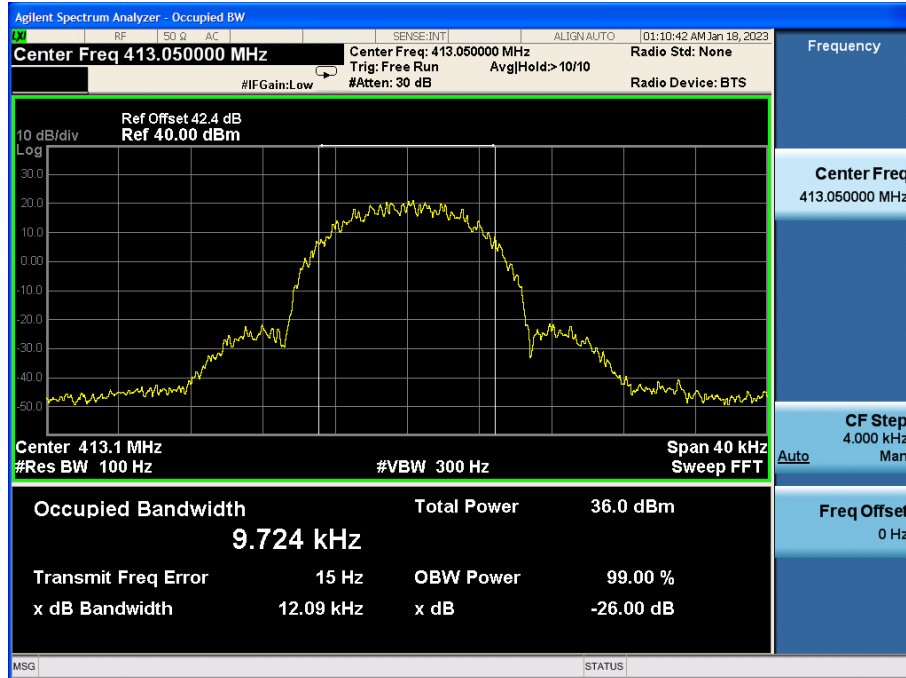
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中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

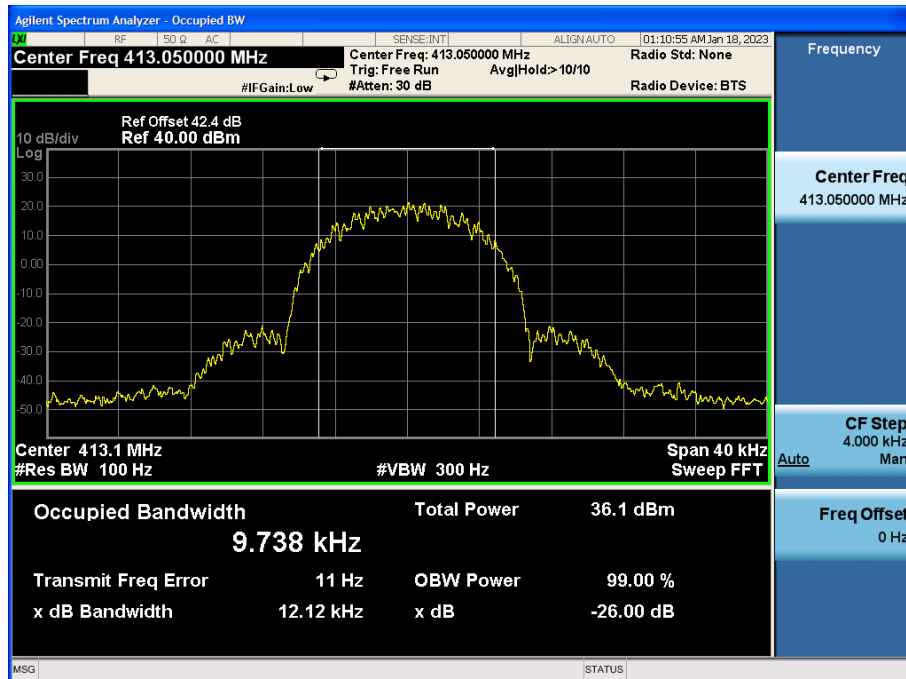
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t (86-20) 82155555 sgs.china@sgs.com

99% OBW

DL_H-DQPSK_MCH_Output_Pre-AGC



DL_H-DQPSK_MCH_Output_3dB above AGC

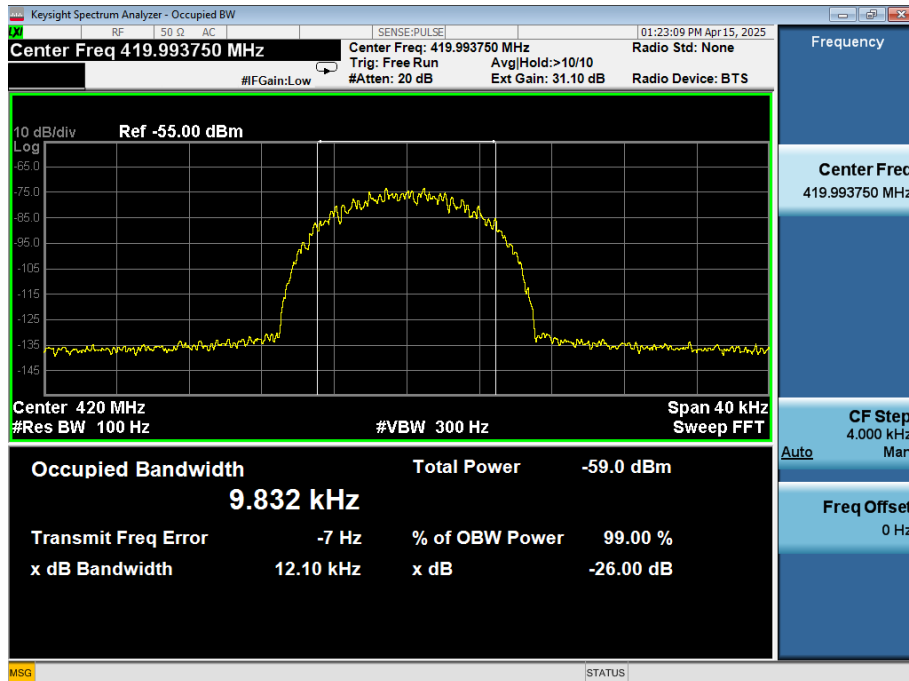


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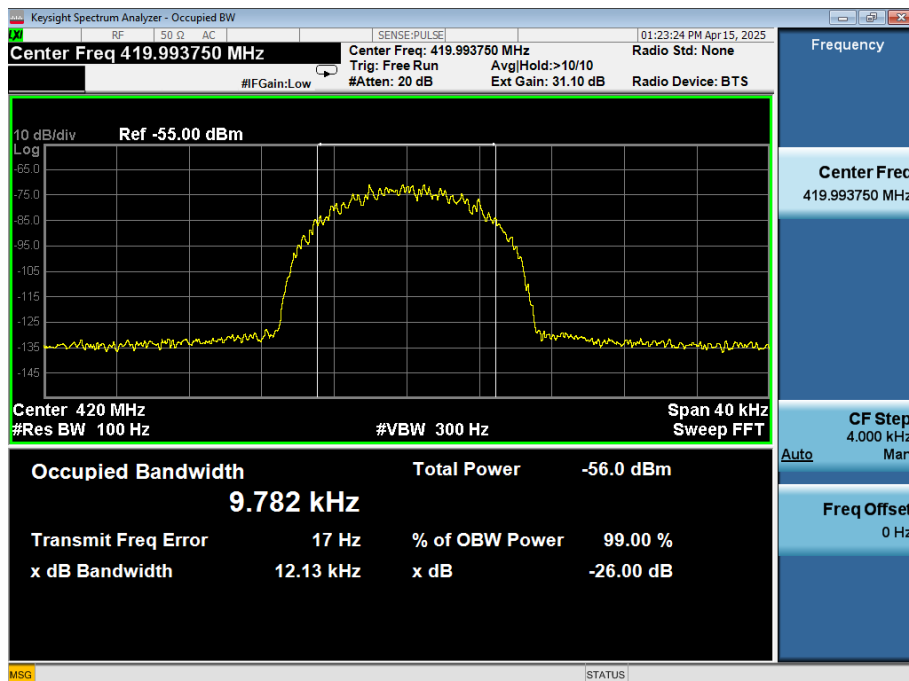
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99% OBW

DL_H-DQPSK_HCH_Input_Pre-AGC



DL_H-DQPSK_HCH_Input_3dB above AGC

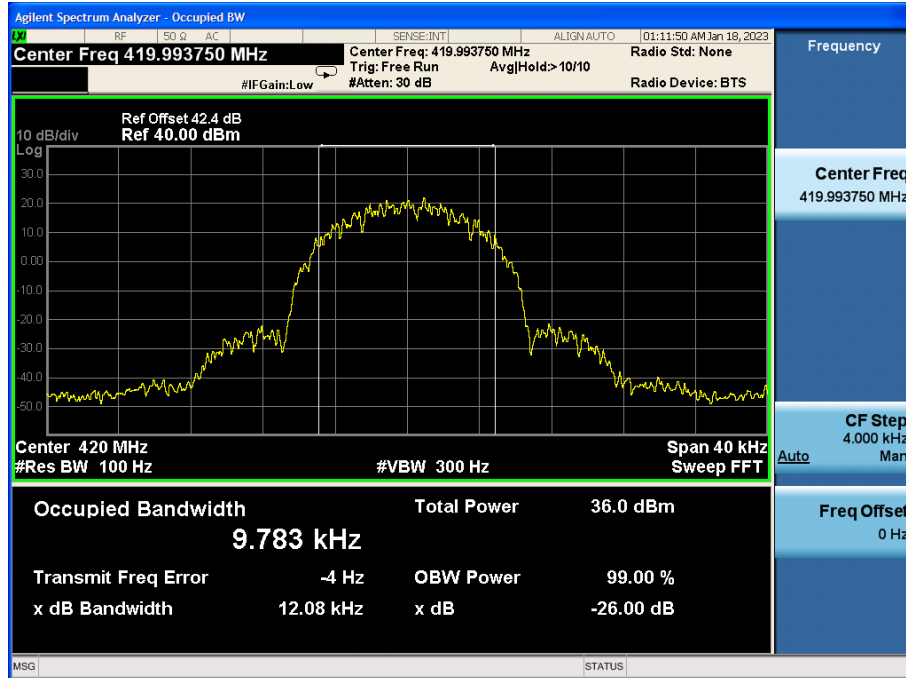


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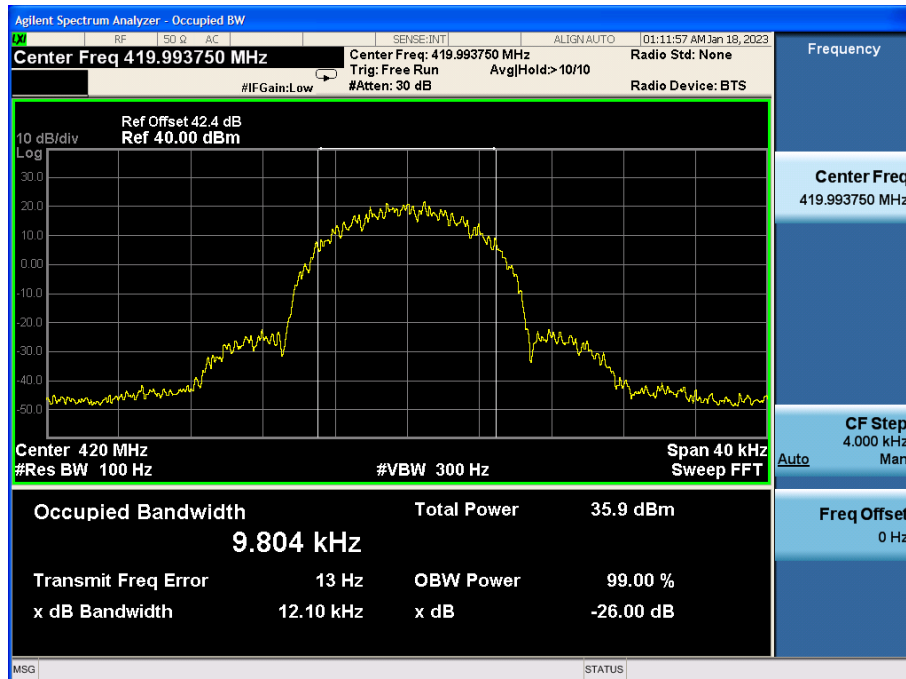
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99% OBW

DL_H-DQPSK_HCH_Output_Pre-AGC



DL_H-DQPSK_HCH_Output_3dB above AGC

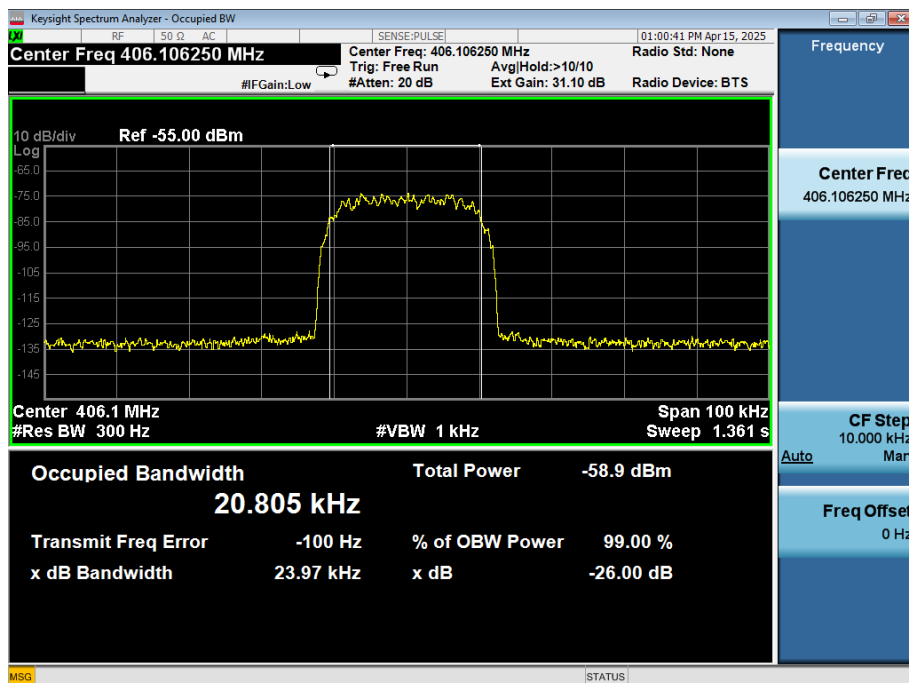


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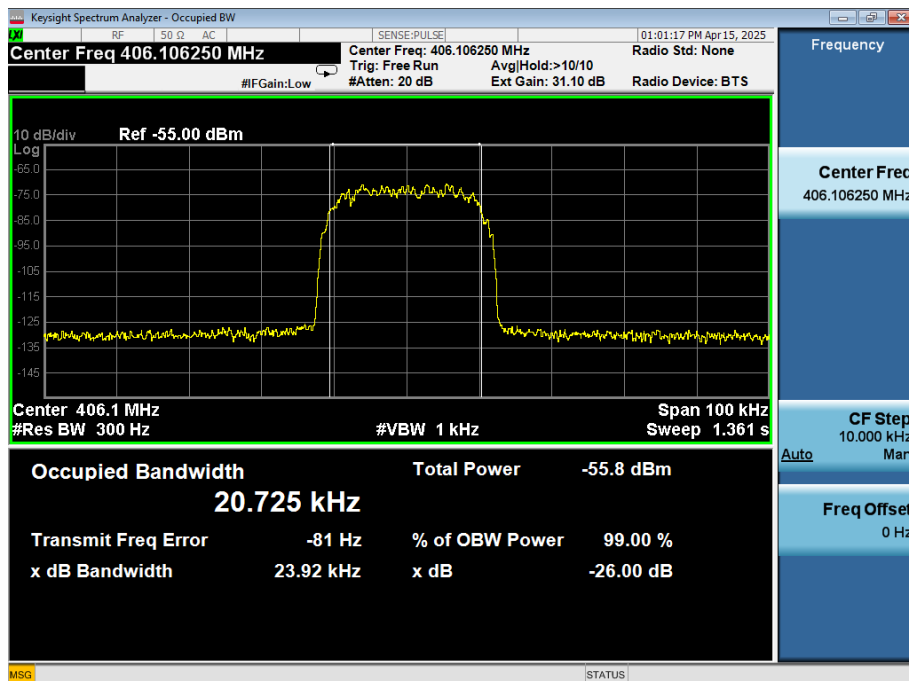
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DL_TETRA_LCH_Input_Pre-AGC



DL_TETRA_LCH_Input_3dB above AGC

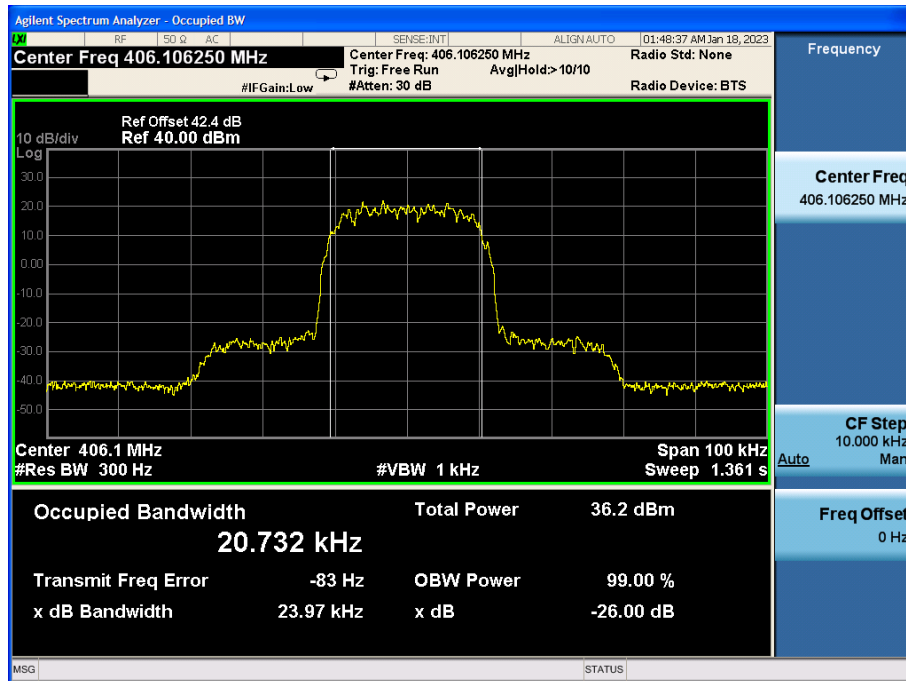


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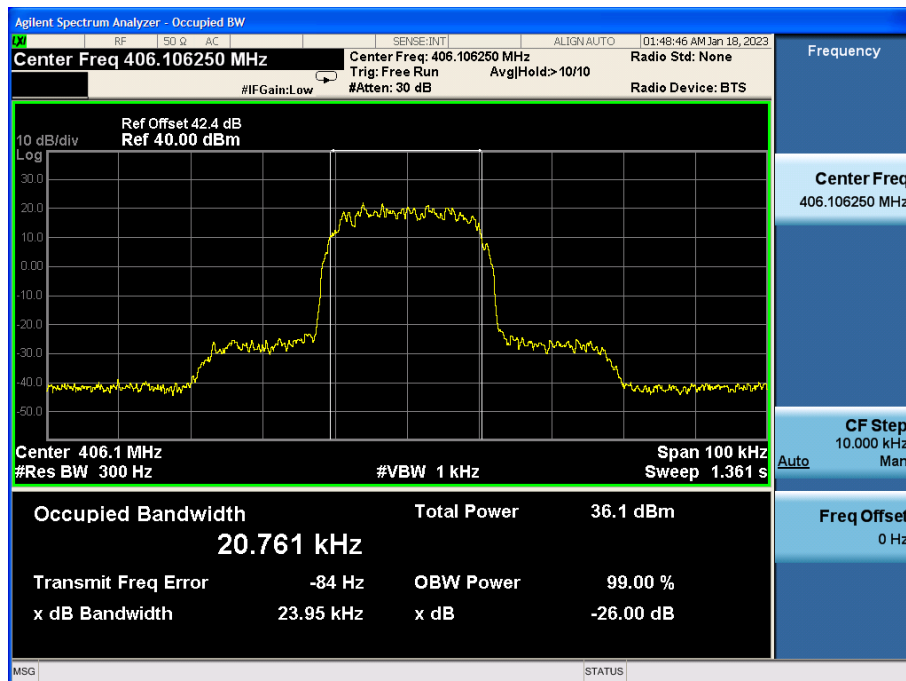
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DL_TETRA_LCH_Output_Pre-AGC



DL_TETRA_LCH_Output_3dB above AGC

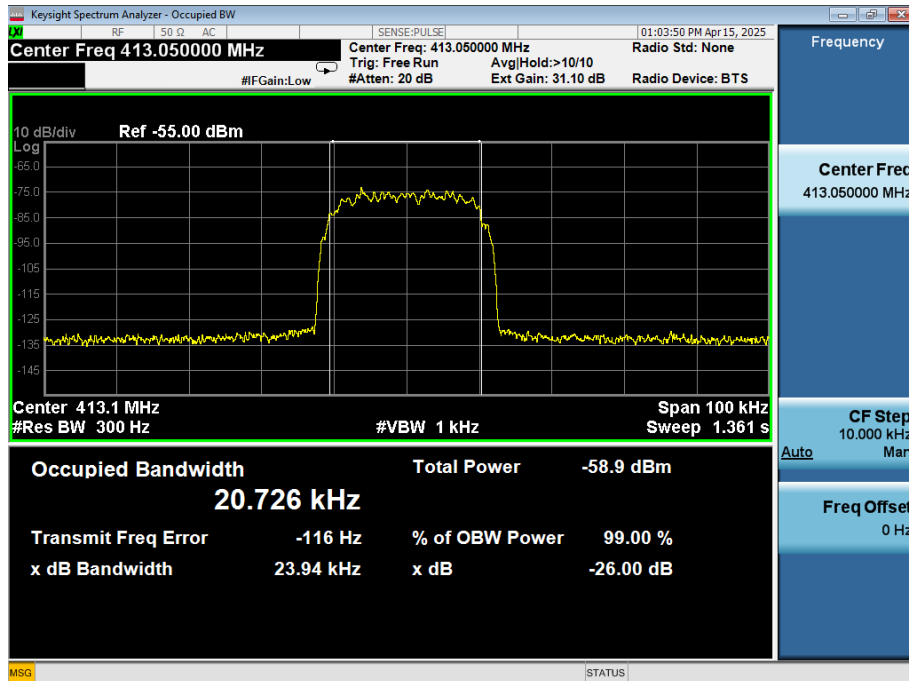


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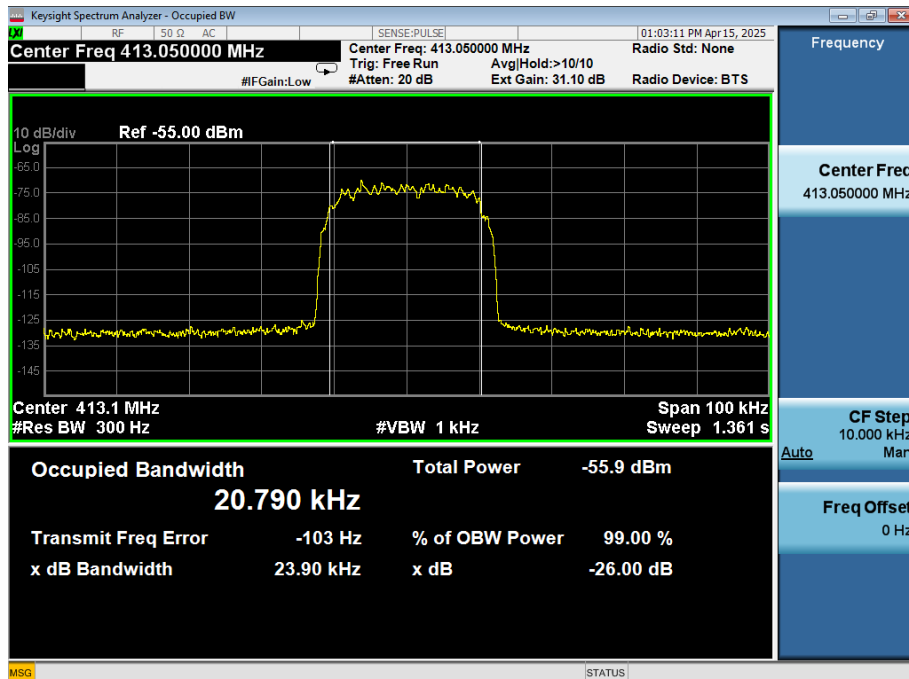
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DL_TETRA_MCH_Input_Pre-AGC



DL_TETRA_MCH_Input_3dB above AGC

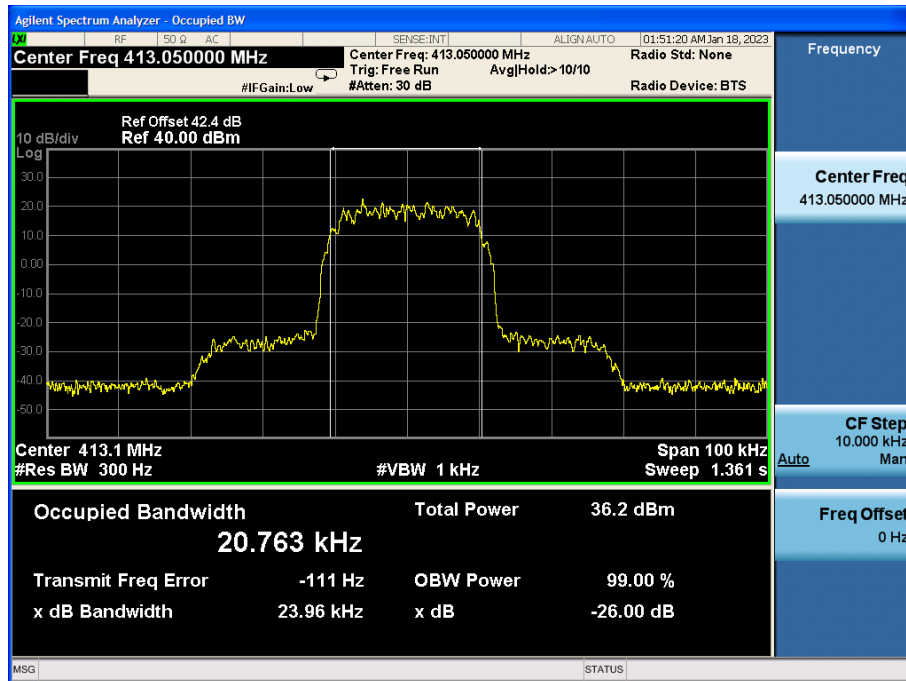


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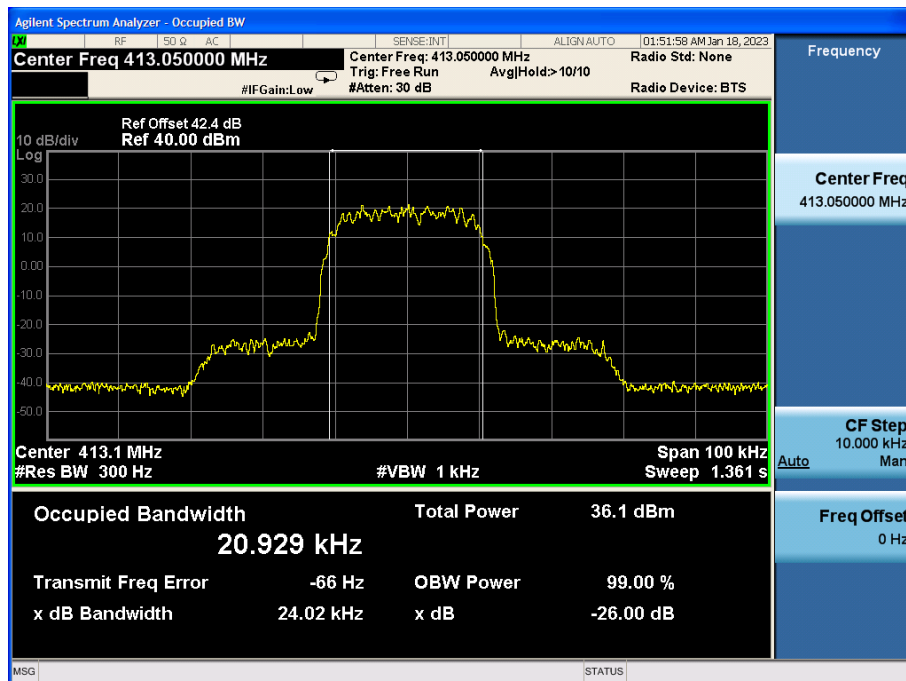
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99% OBW

DL_TETRA_MCH_Output_Pre-AGC



DL_TETRA_MCH_Output_3dB above AGC

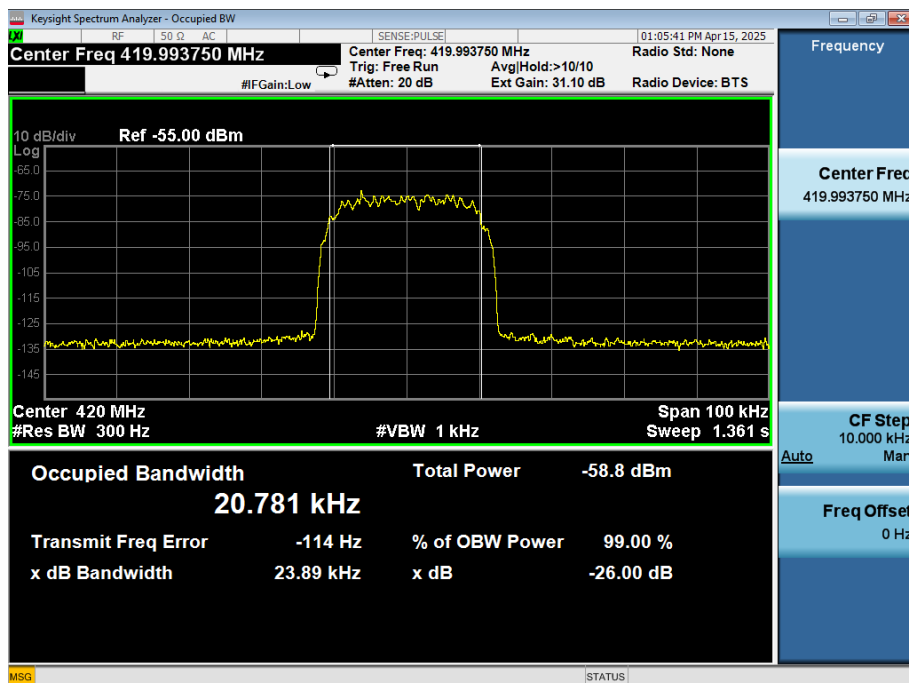


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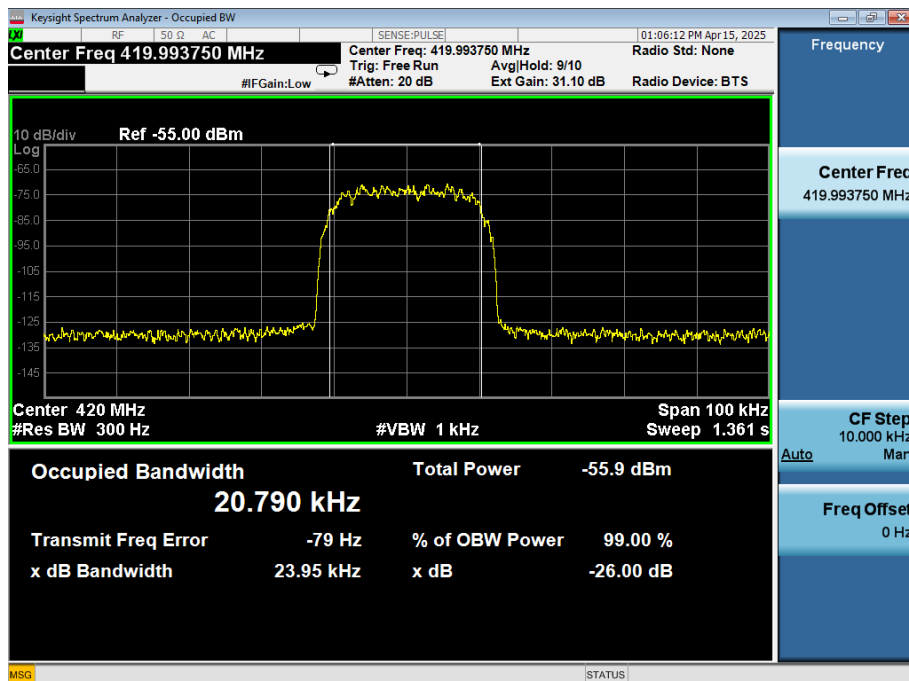
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99% OBW

DL_TETRA_HCH_Input_Pre-AGC



DL_TETRA_HCH_Input_3dB above AGC

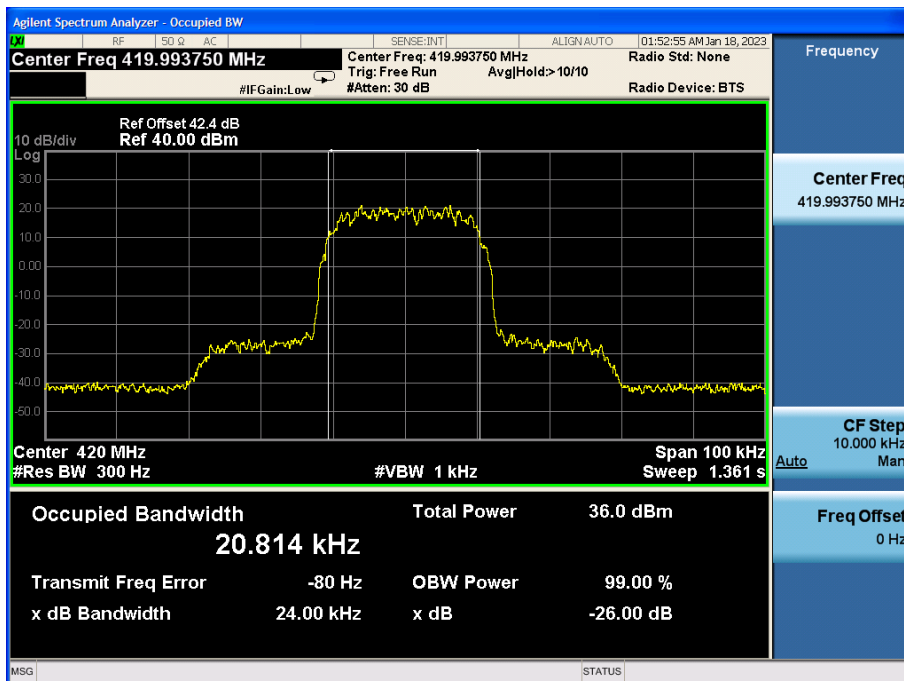


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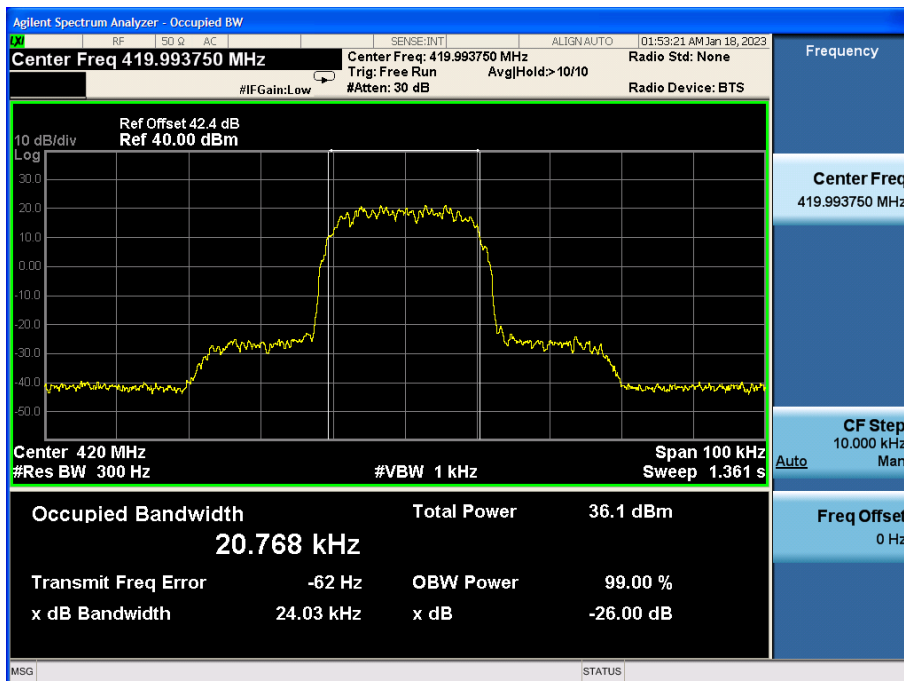
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DL_TETRA_HCH_Output_Pre-AGC



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	410.9	Pre-AGC	-59	36.89	2.98	5	95.89	PASS
		3dB above AGC	-56	36.96	3.03		/	PASS

Remark:

- f0 is from Out-of-band Rejection test in the report.
- The manufacturer's rated Output power is 36dBm for DL, and the Output power showed in above table is within ± 1.0 dB tolerance.
- 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

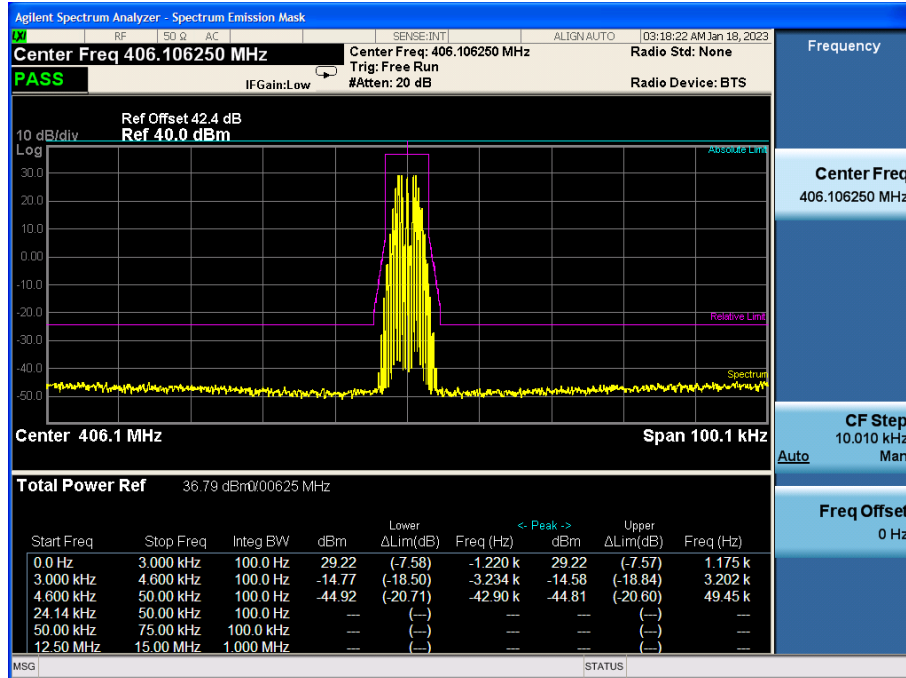


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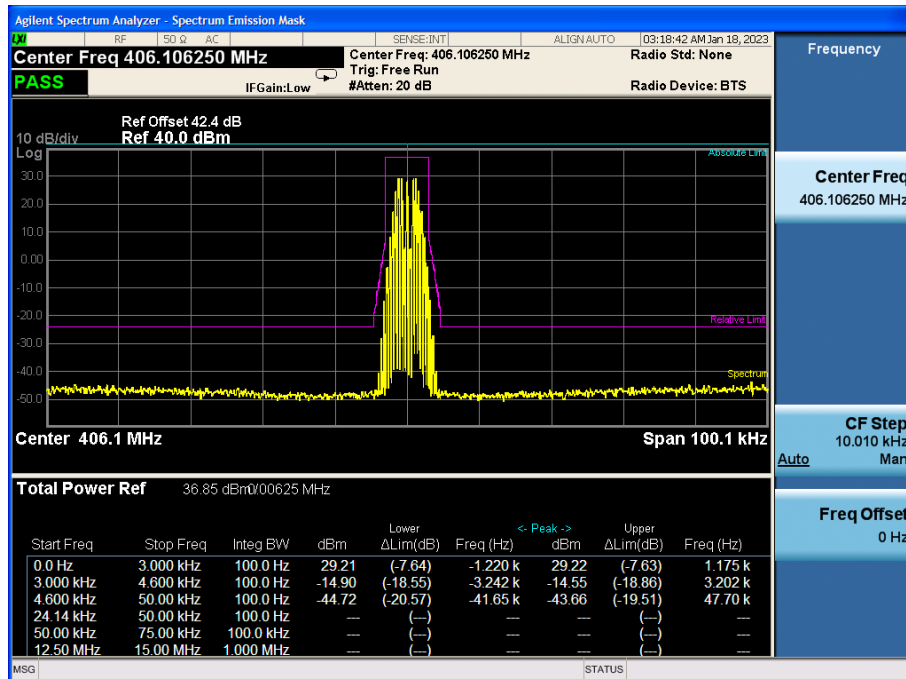
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Emission Masks

DL_FM_LCH_Pre-AGC



DL_FM_LCH_3dB above AGC

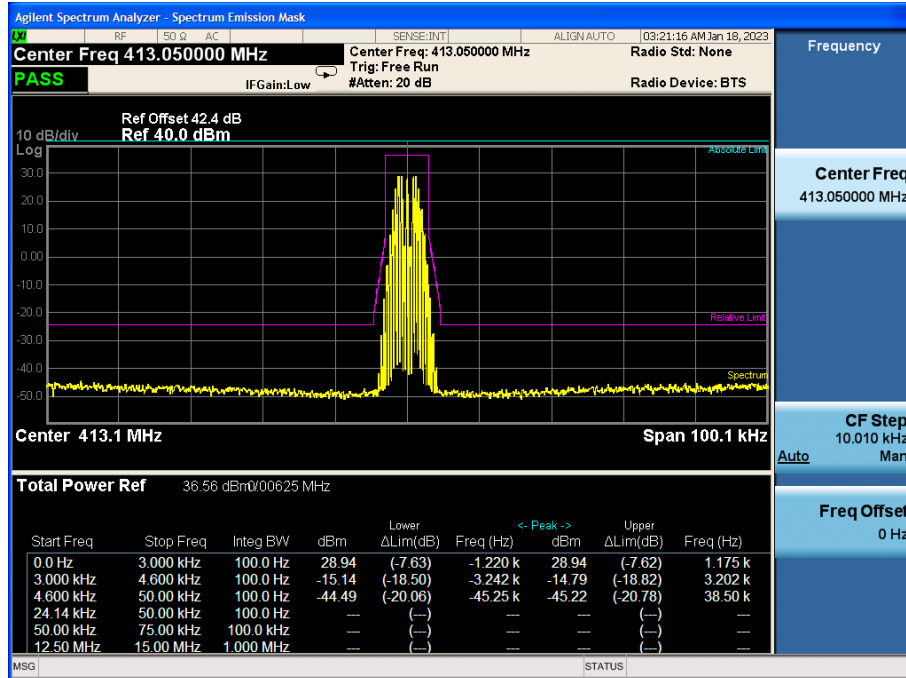


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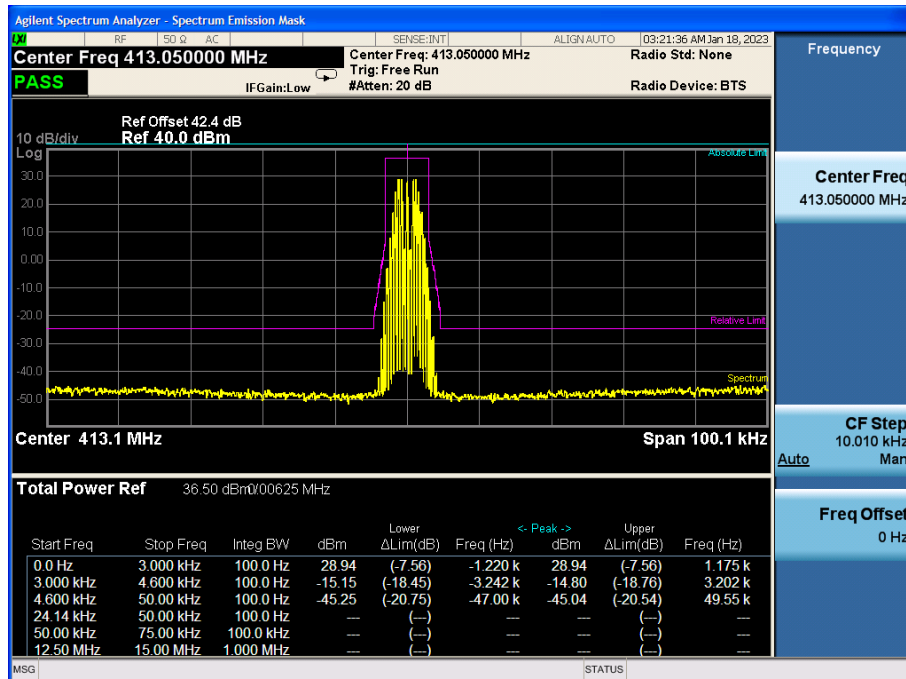
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Emission Masks

DL_FM_MCH_Pre-AGC



DL_FM_MCH_3dB above AGC



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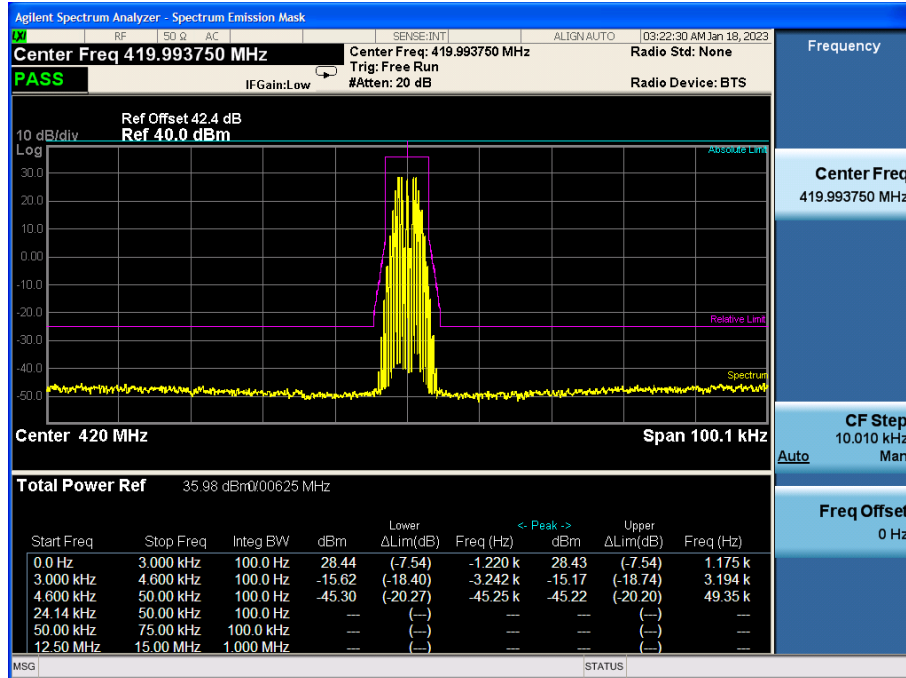
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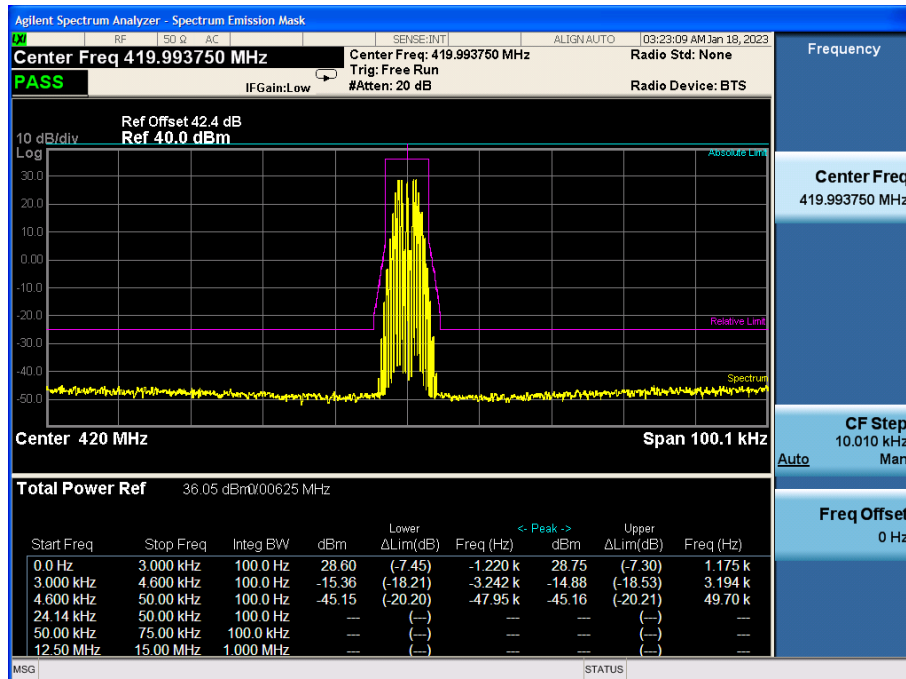
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Emission Masks

DL_FM_HCH_Pre-AGC



DL_FM_HCH_3dB above AGC



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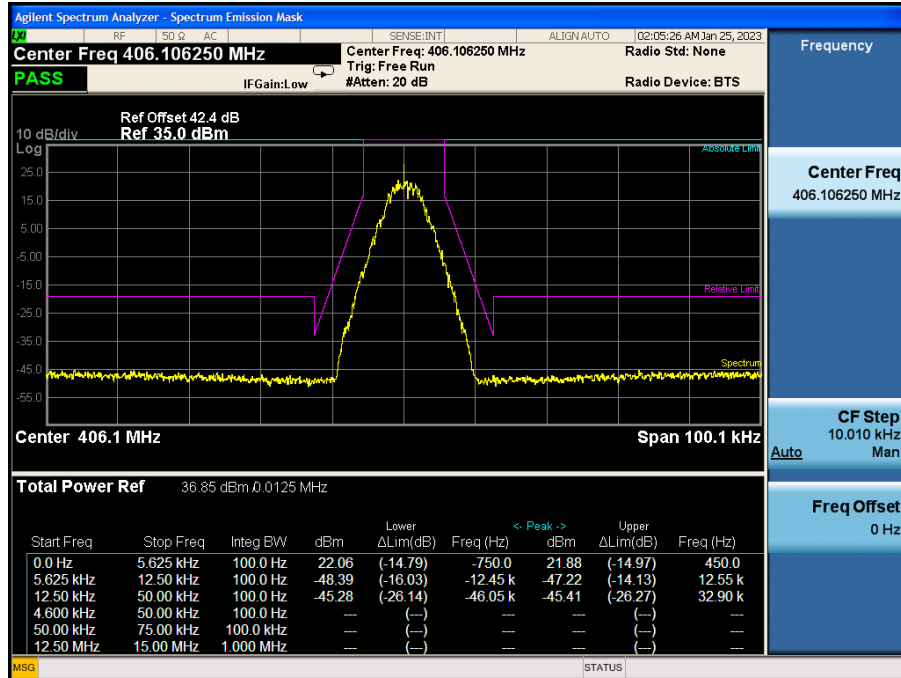
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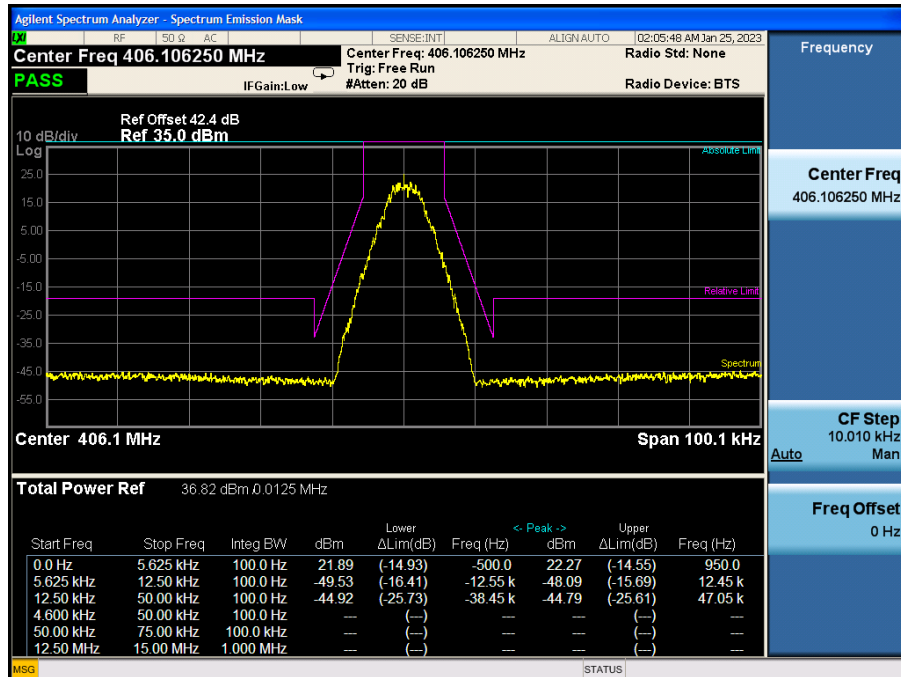
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Emission Masks

DL_DMR_LCH_Pre-AGC

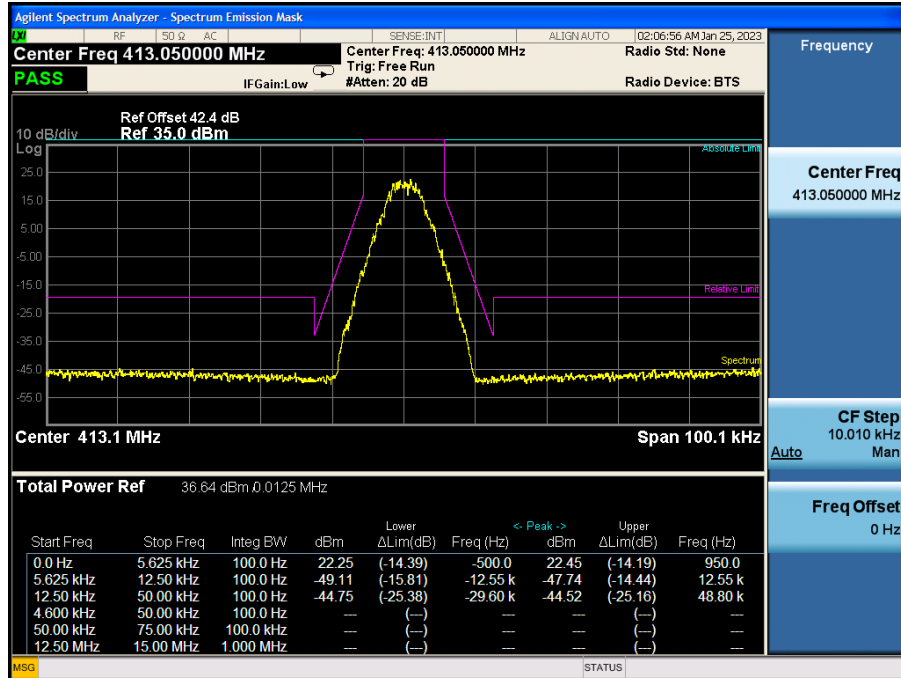


DL_DMR_LCH_3dB above AGC

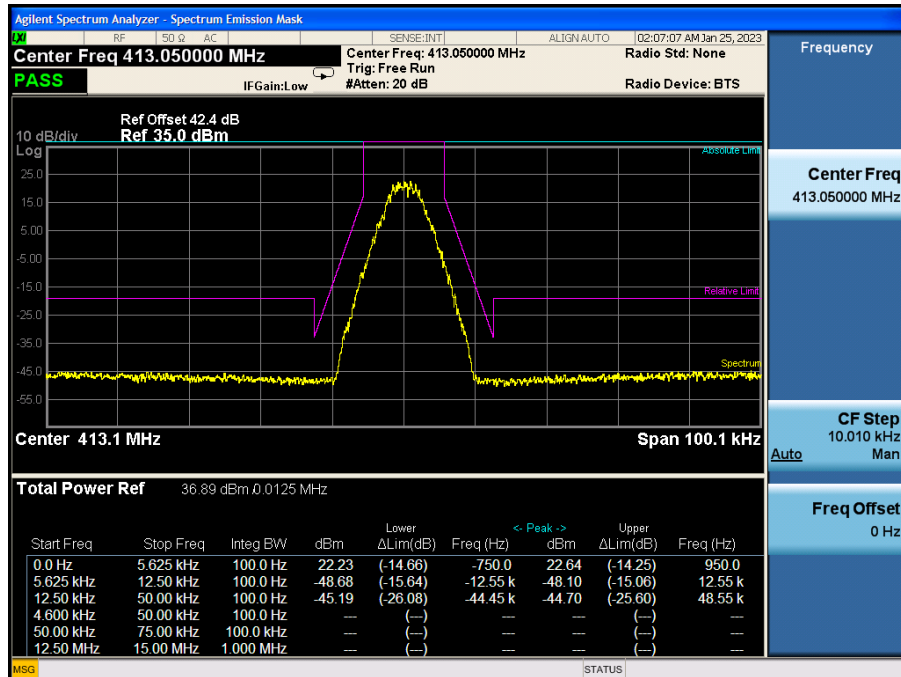


Emission Masks

DL_DMR_MCH_Pre-AGC



DL_DMR_MCH_3dB above AGC



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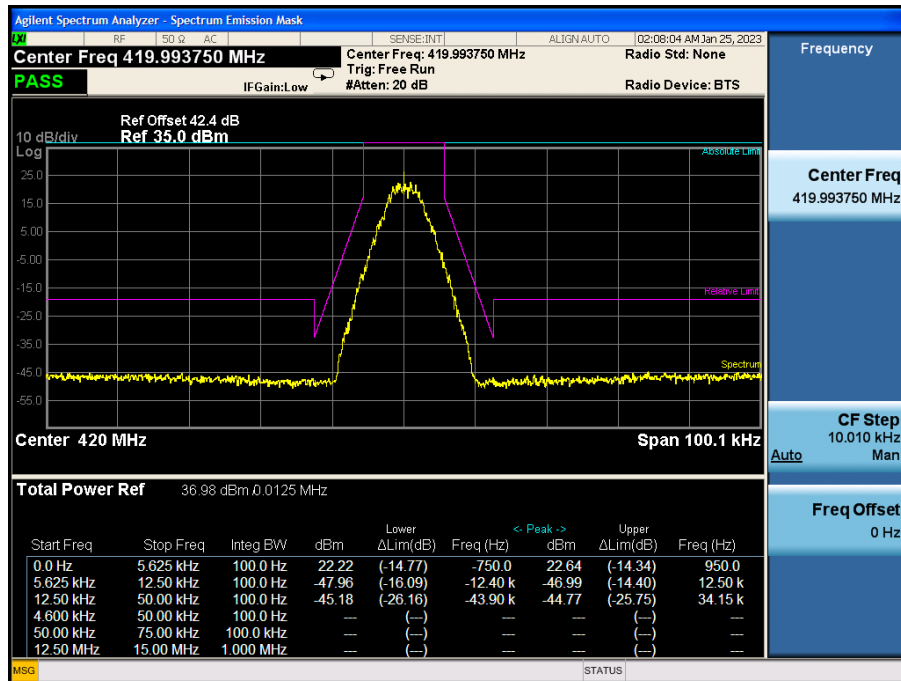
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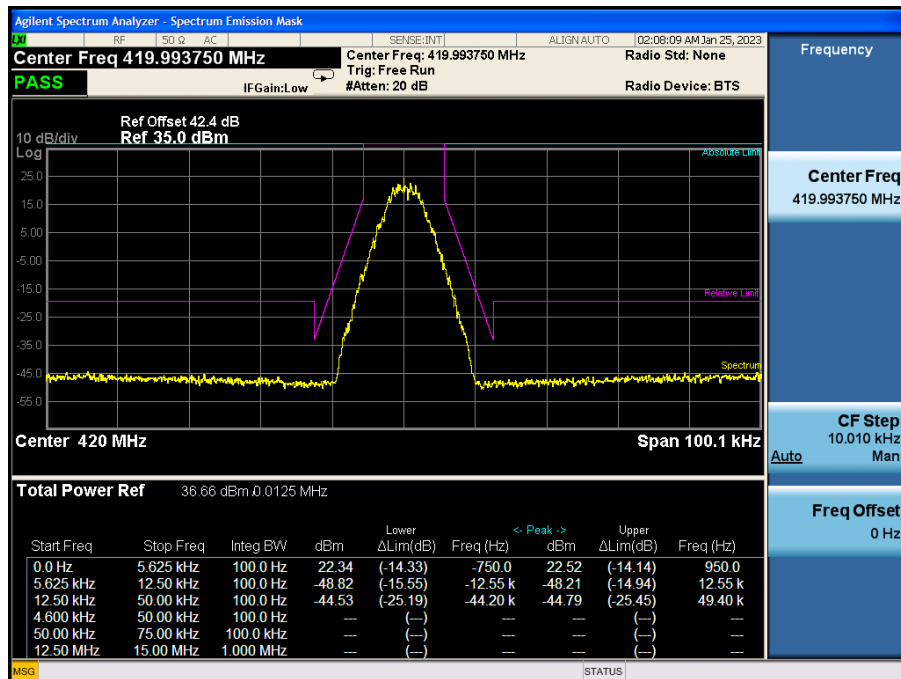
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Emission Masks

DL_DMR_HCH_Pre-AGC

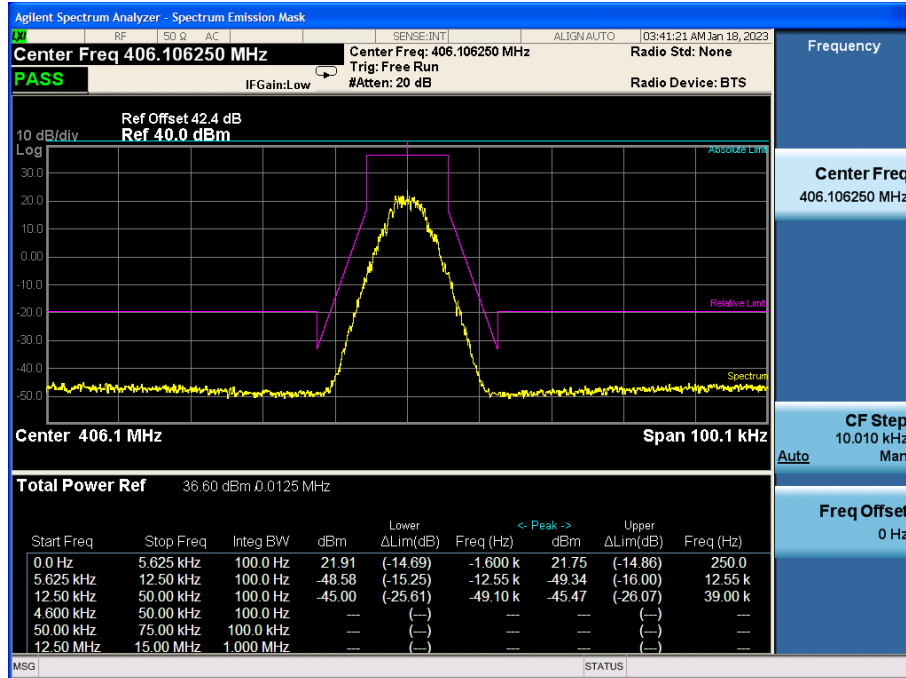


DL_DMR_HCH_3dB above AGC

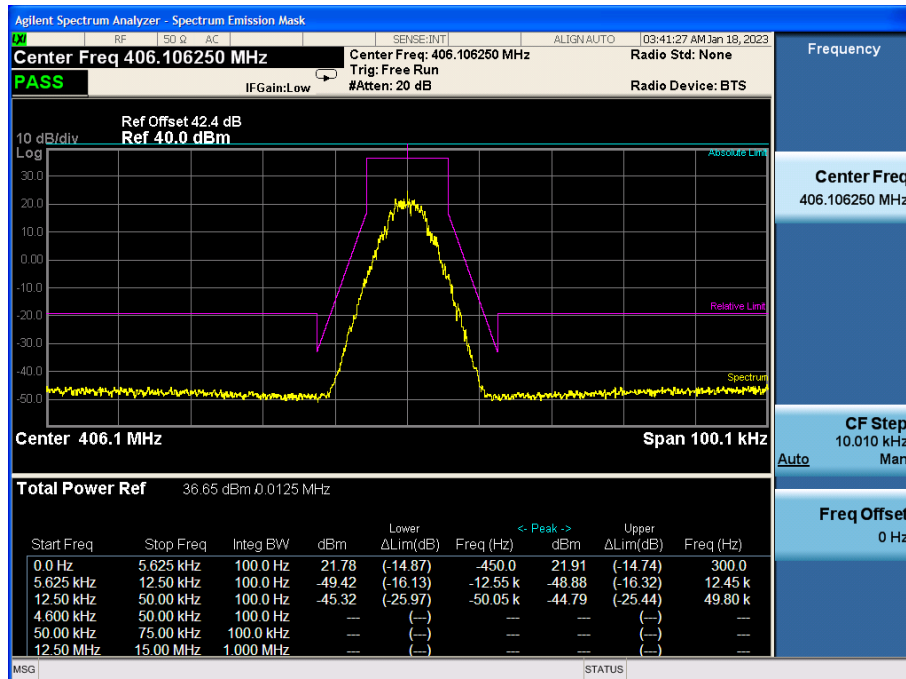


Emission Masks

DL_C4FM_LCH_Pre-AGC



DL_C4FM_LCH_3dB above AGC



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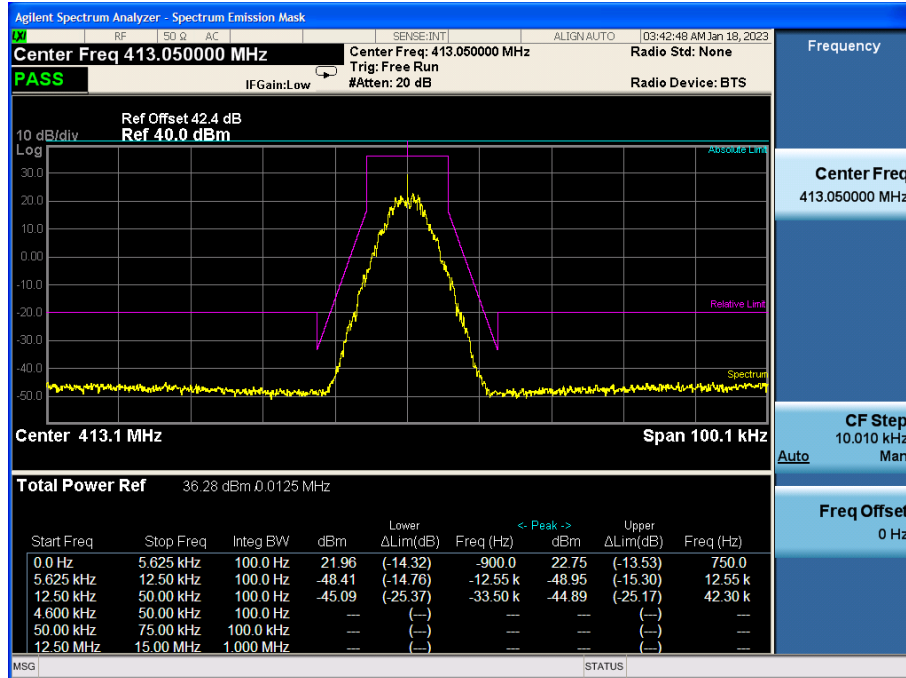
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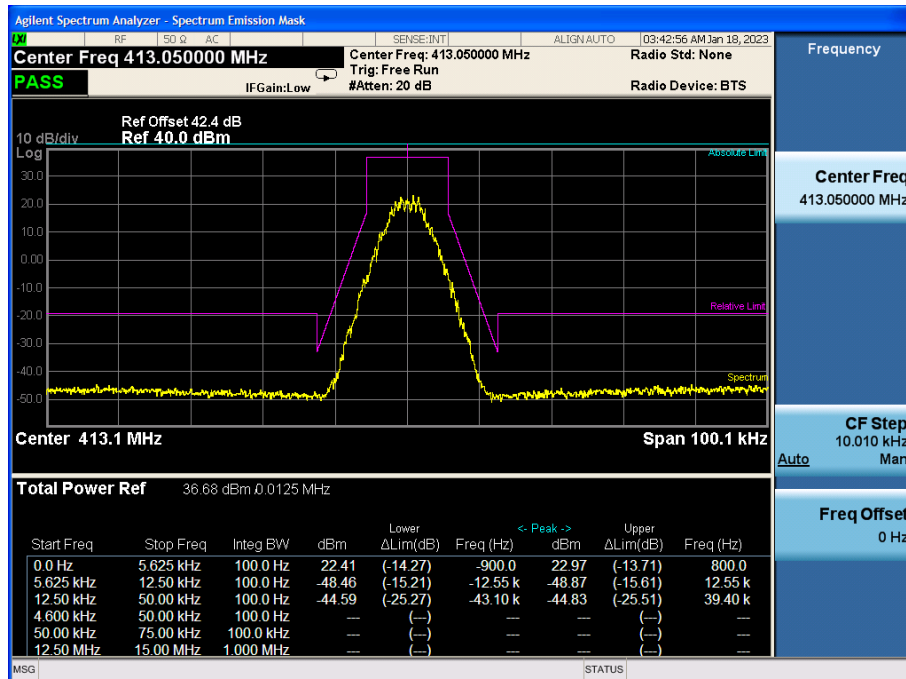
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Emission Masks

DL_C4FM_MCH_Pre-AGC



DL_C4FM_MCH_3dB above AGC



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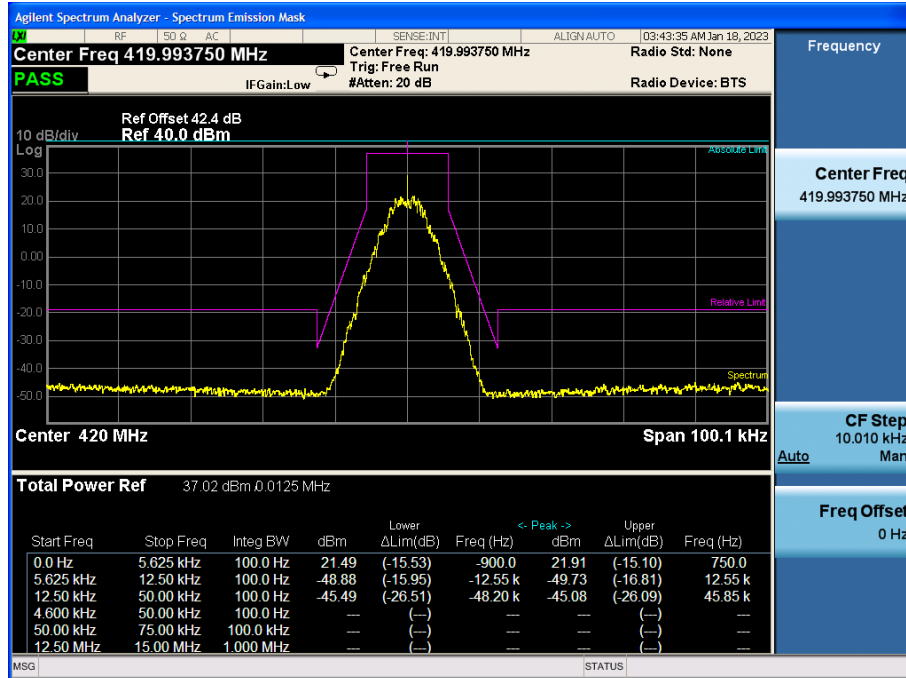
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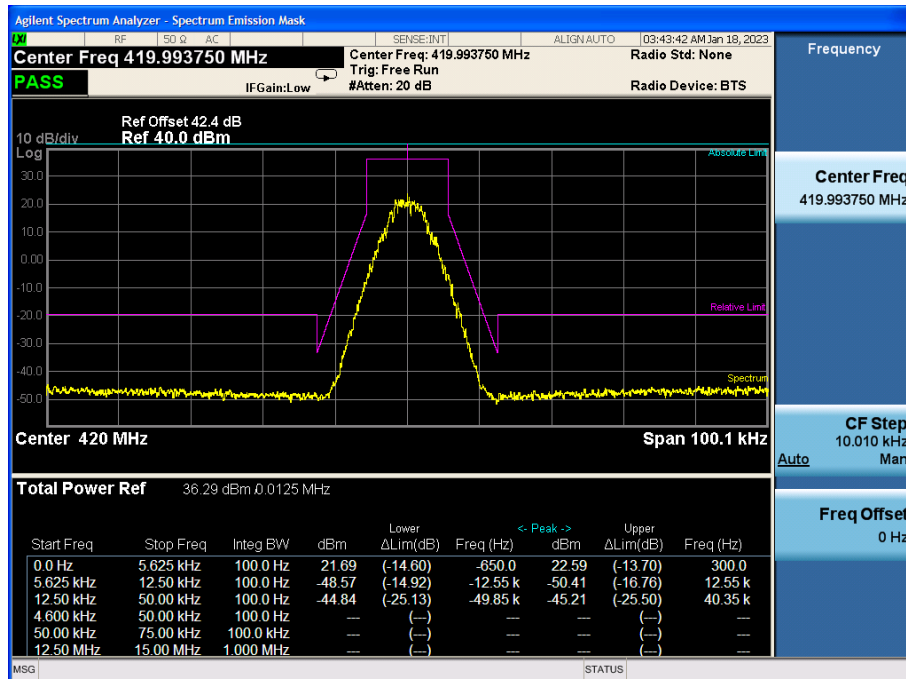
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Emission Masks

DL_C4FM_HCH_Pre-AGC



DL_C4FM_HCH_3dB above AGC



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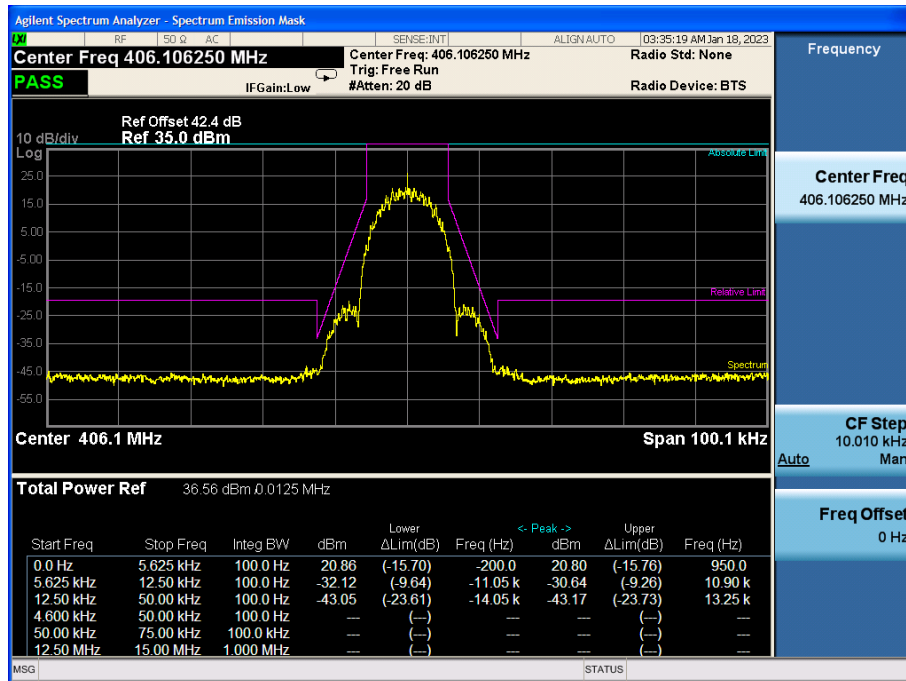
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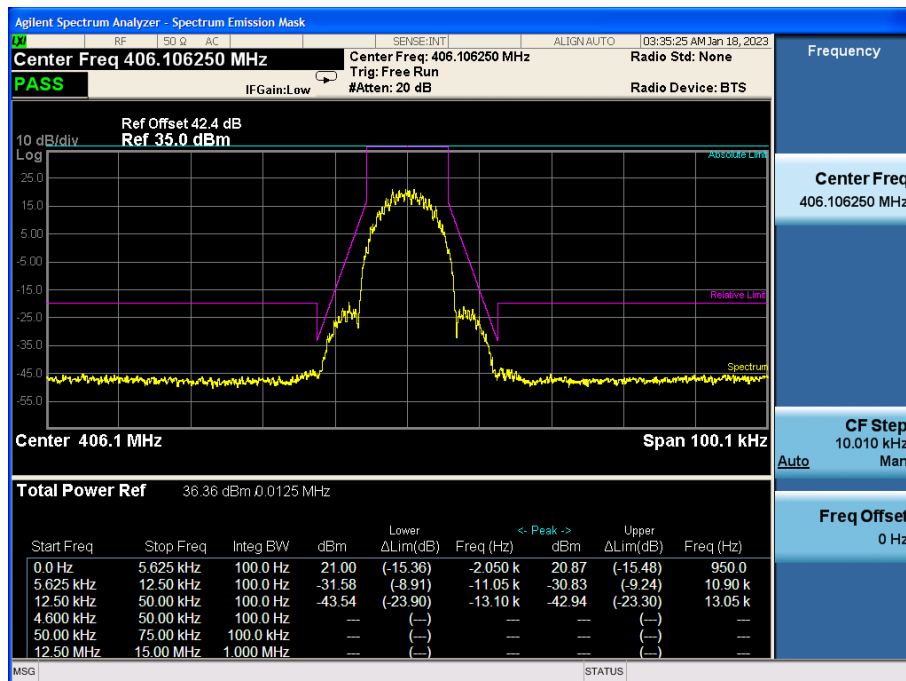
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Emission Masks

DL_H-DQPSK_LCH_Pre-AGC

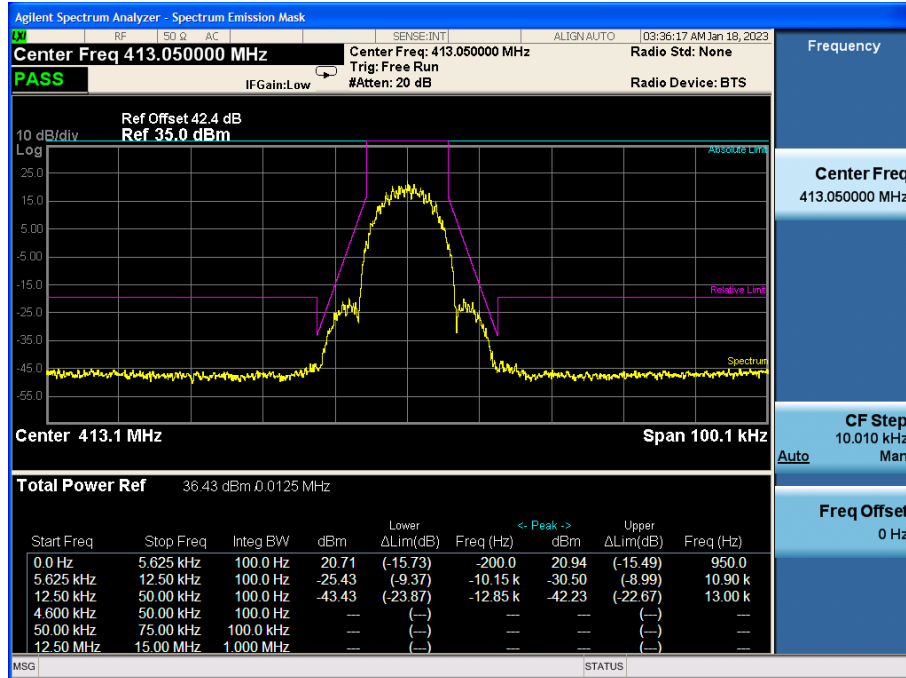


DL_H-DQPSK_LCH_3dB above AGC

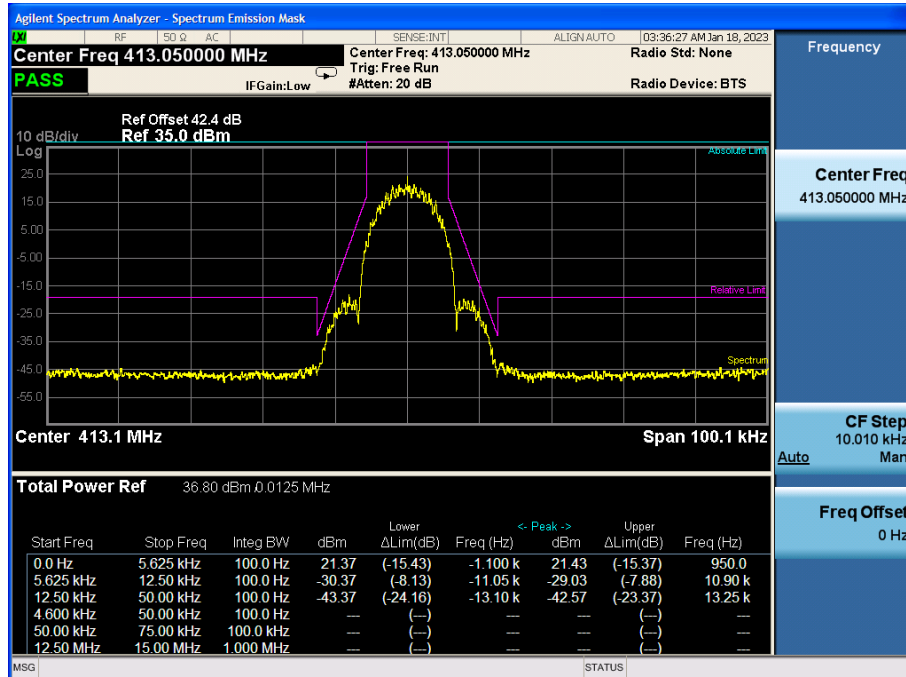


Emission Masks

DL_H-DQPSK_MCH_Pre-AGC

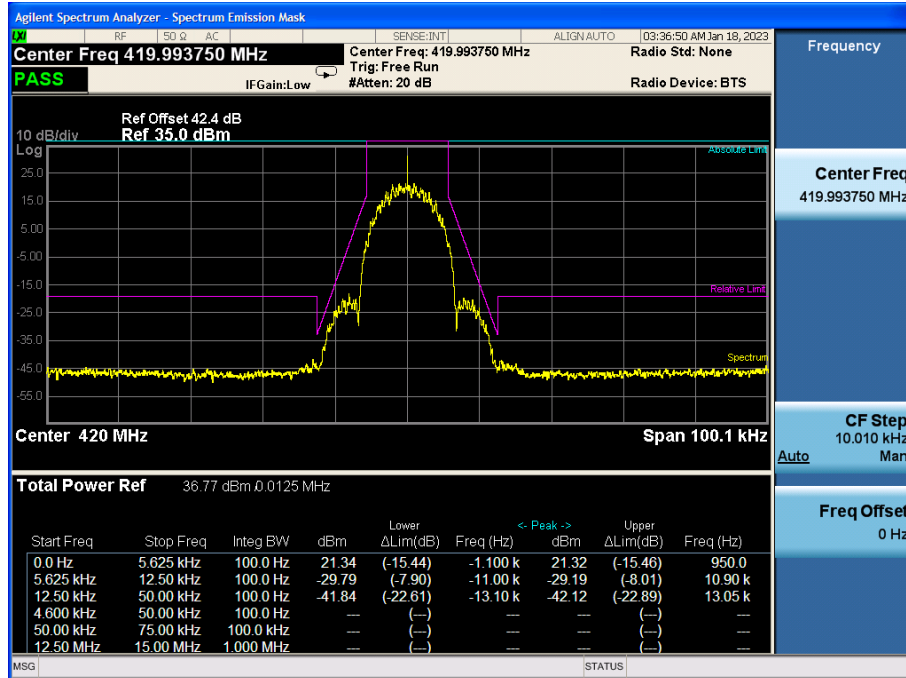


DL_H-DQPSK_MCH_3dB above AGC

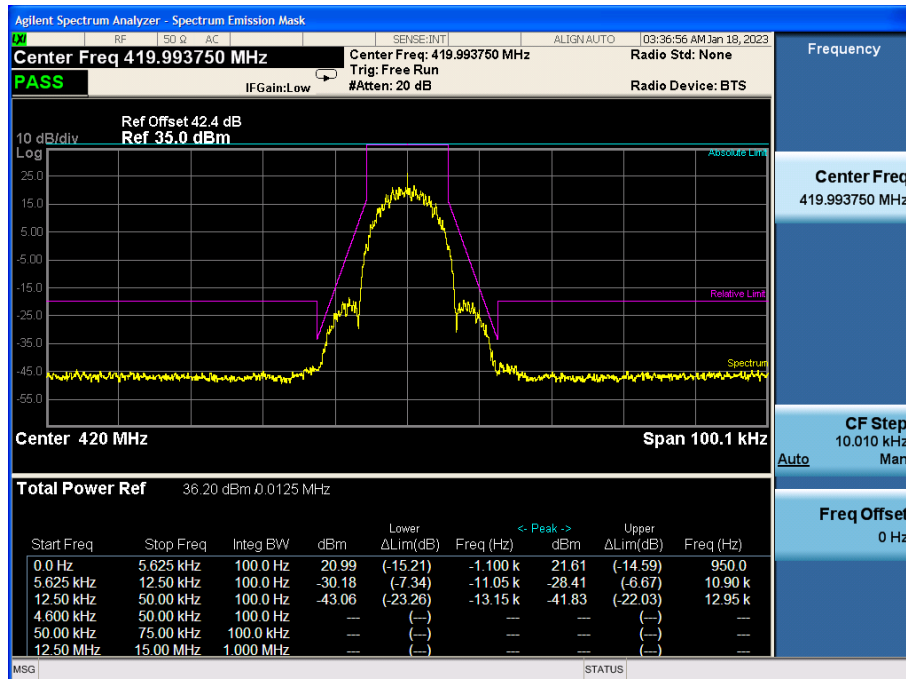


Emission Masks

DL_H-DQPSK_HCH_Pre-AGC



DL_H-DQPSK_HCH_3dB above AGC



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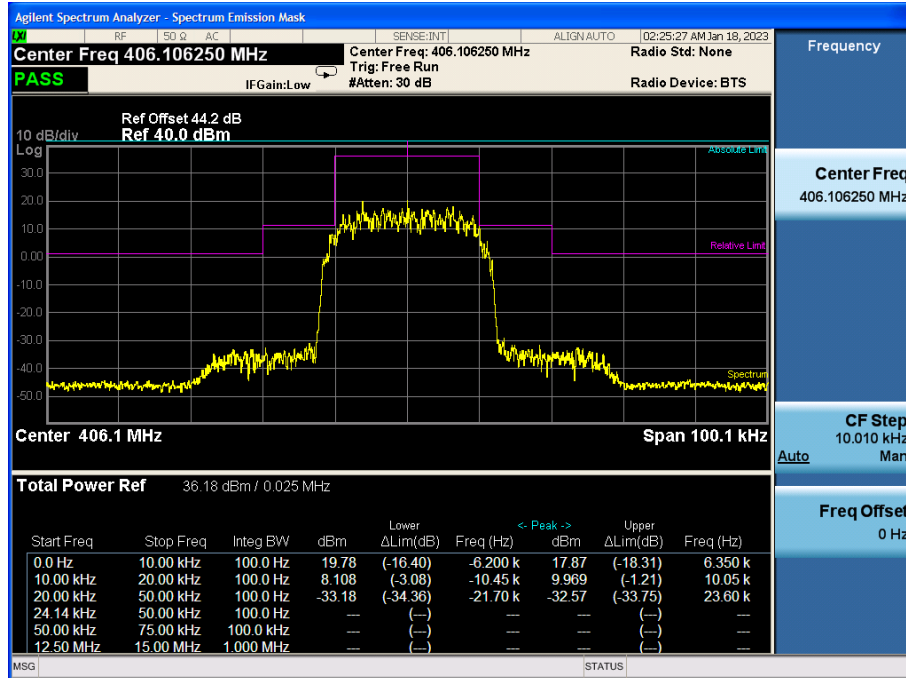
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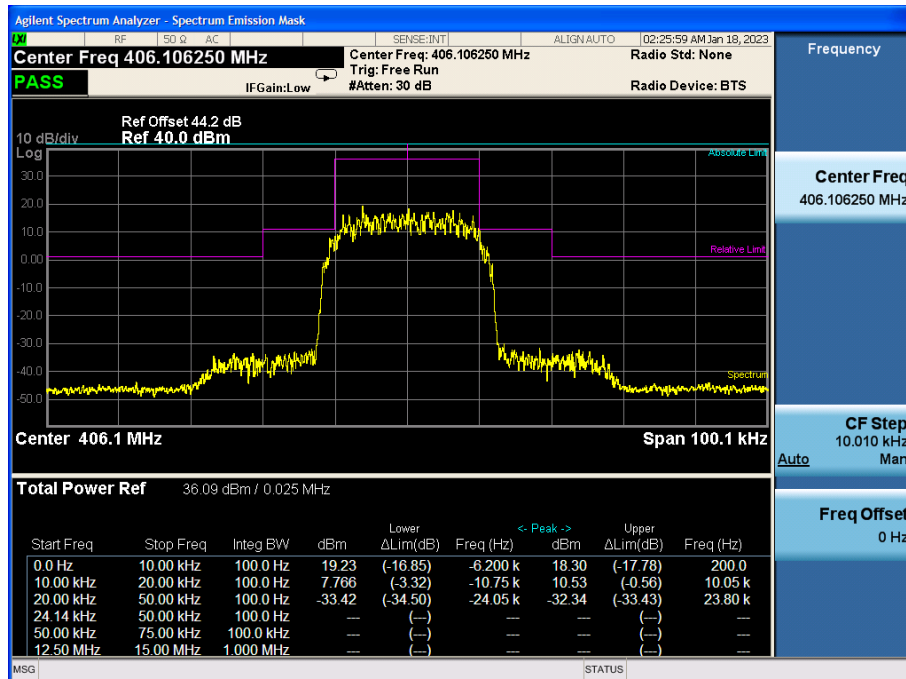
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Emission Masks

DL_TETRA_LCH_Pre-AGC



DL_TETRA_LCH_3dB above AGC



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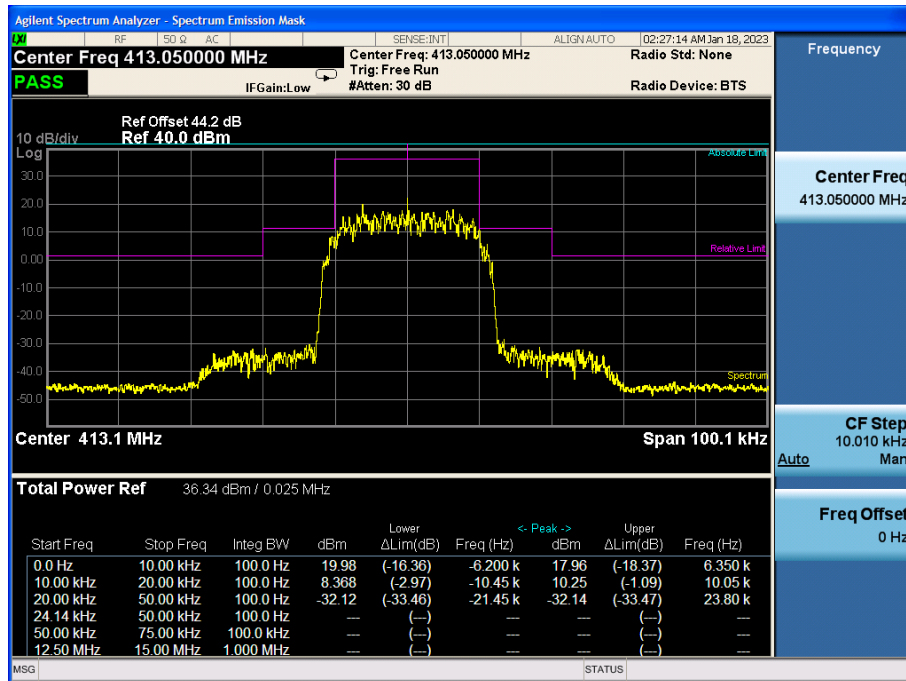
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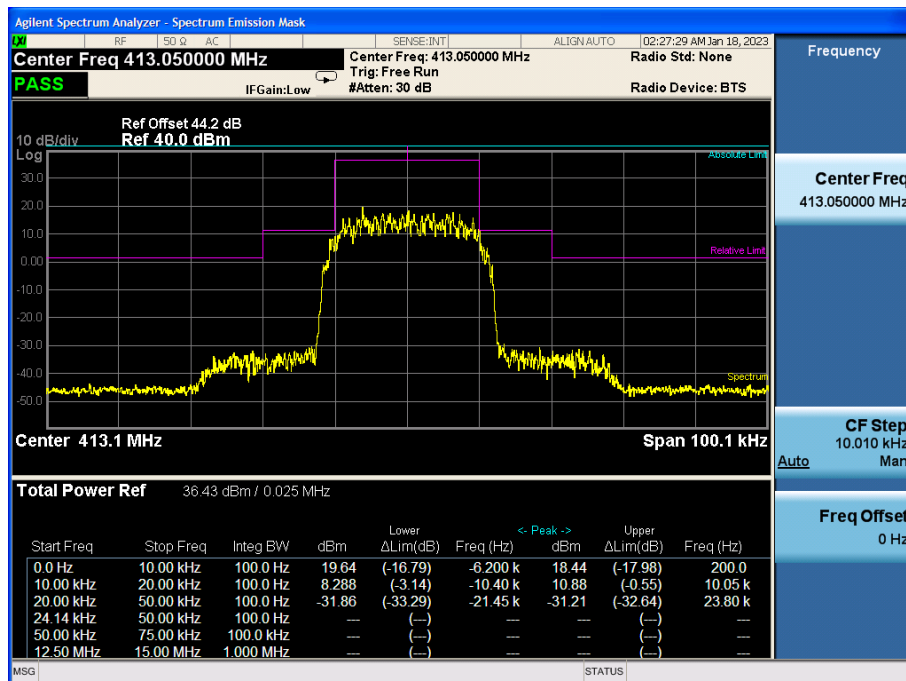
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Emission Masks

DL_TETRA_MCH_Pre-AGC



DL_TETRA_MCH_3dB above AGC



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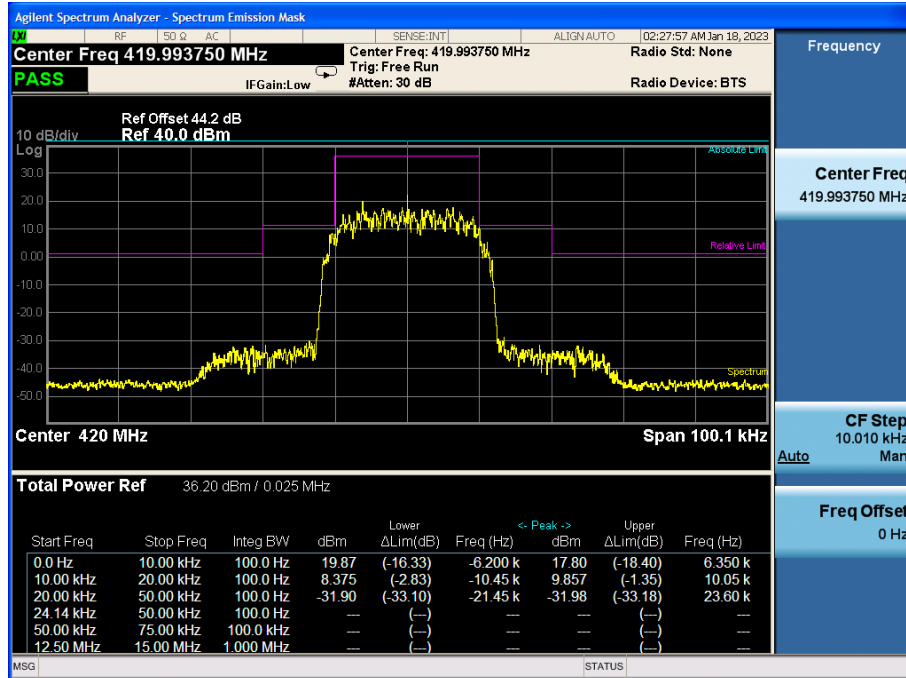
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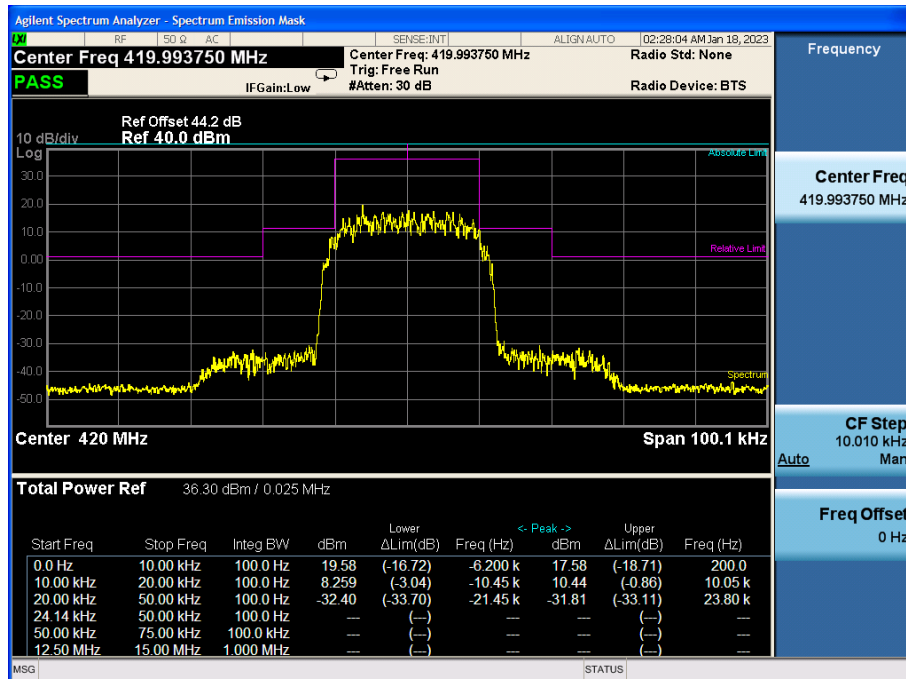
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Emission Masks

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	4.39	≤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	410.9	6.25	Pre-AGC	-14.33	0.90
			3dB above AGC	-14.01	1.22
		12.5	Pre-AGC	-14.24	0.99
			3dB above AGC	-14.23	1.00
		25	Pre-AGC	-14.47	0.76
			3dB above AGC	-14.59	0.64

Remark:

- f0 is from Out-of-band Rejection test in the report.
- The level in 10kHz measurement bandwidth= the level in 300Hz measurement bandwidth+ 10lg(10000/300).
- ERP= conducted test level (dBm)+ antenna gain (dBi)- 2.15dB, the maximum antenna gain is 0dBi and declared by the manufacturer.
- The ERP of worst intermodulation products is 1.22/10kHz+ 0dBi- 2.15dB= -0.93dBm, the applicant must use good engineering practice to make sure that the ERP of intermodulation products should not exceed -30dBm in 10kHz measurement bandwidth.

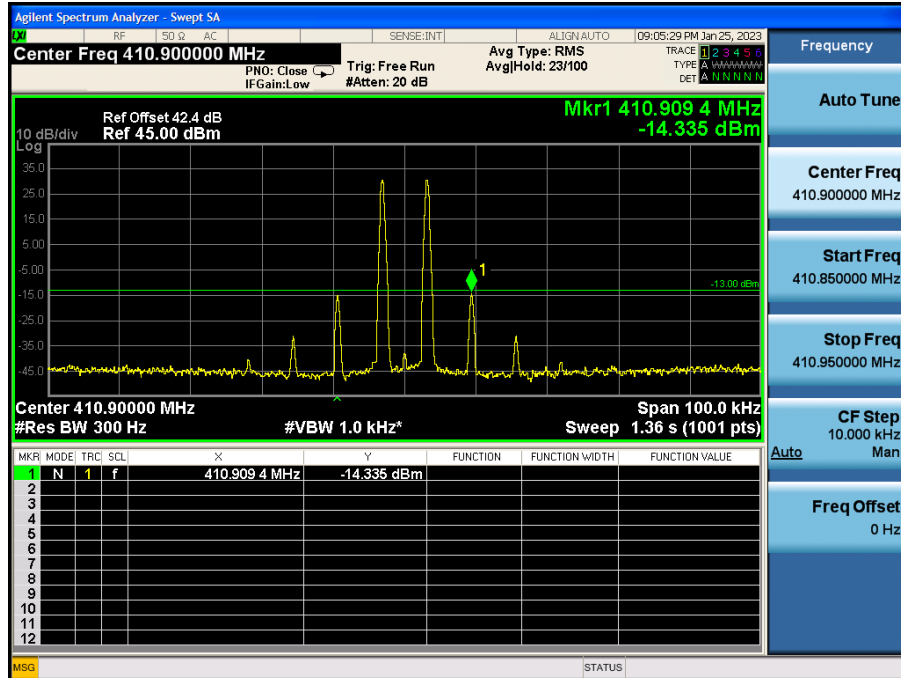


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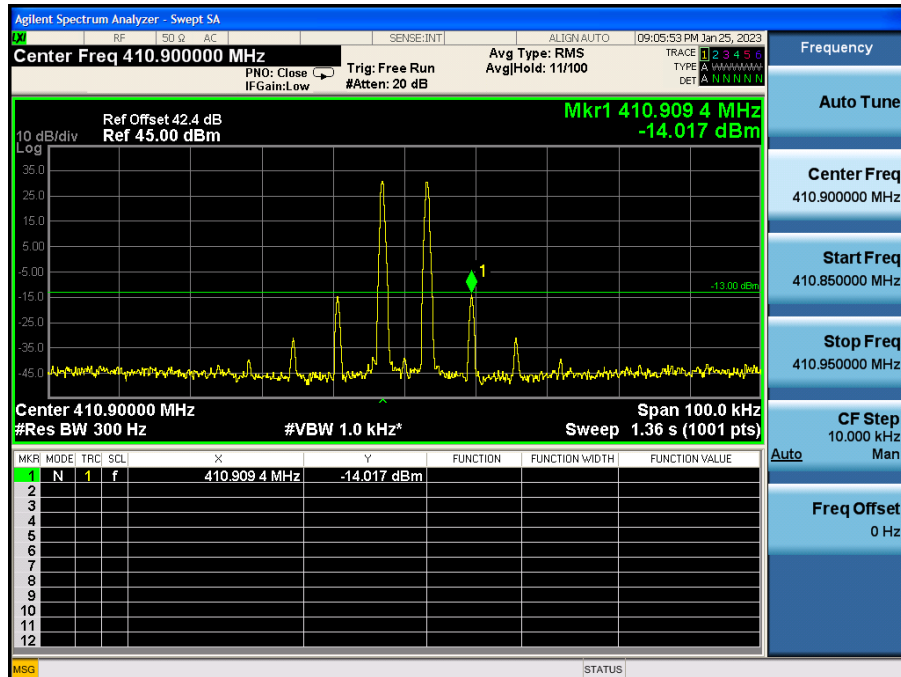
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Intermodulation

DL_6.25kHz_Pre-AGC



DL_6.25kHz_3dB above AGC

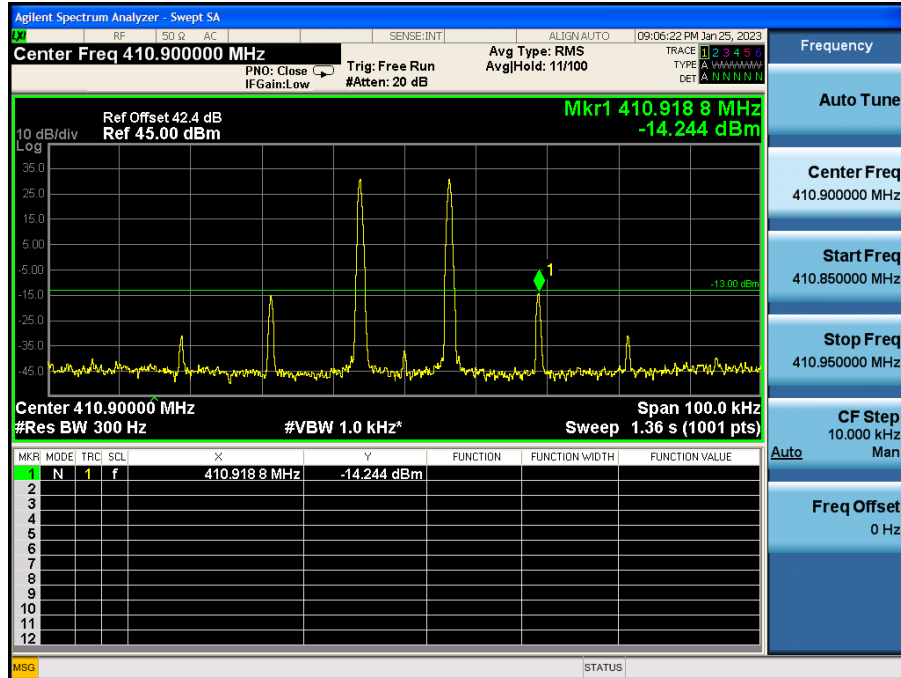


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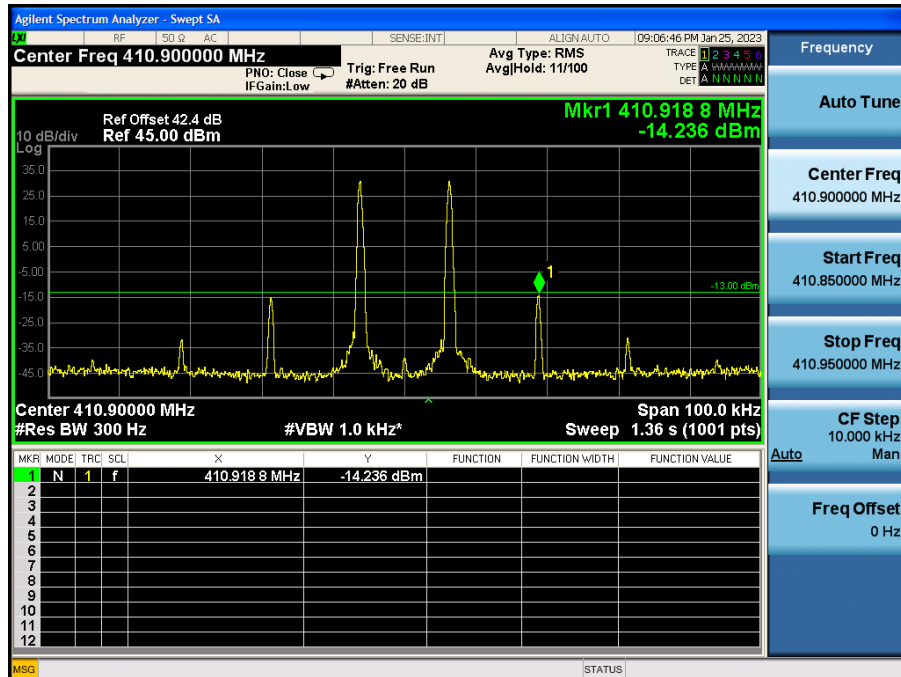
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Intermodulation

DL_12.5kHz_Pre-AGC



DL_12.5kHz_3dB above AGC



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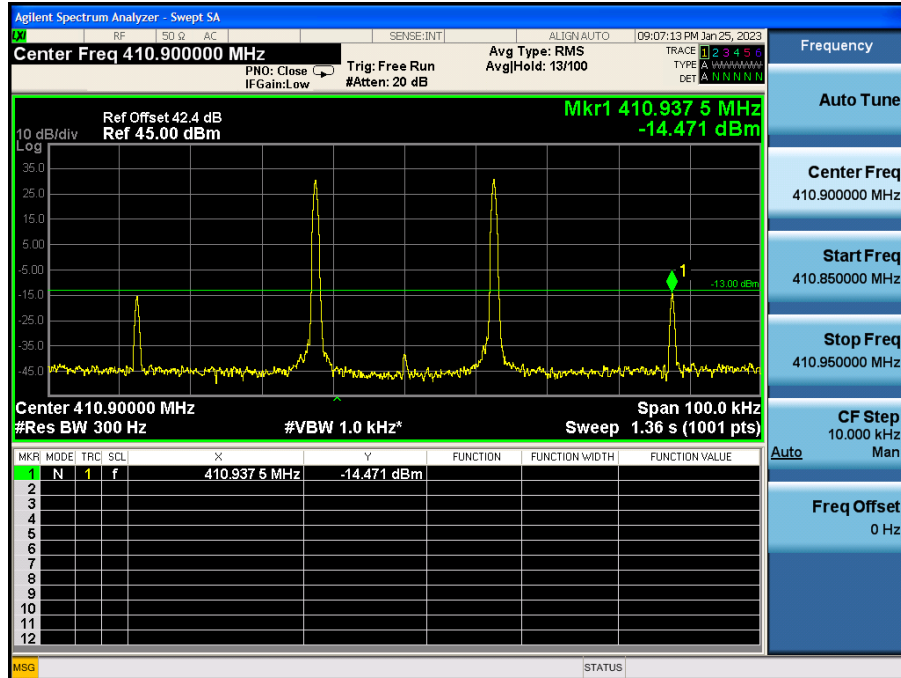
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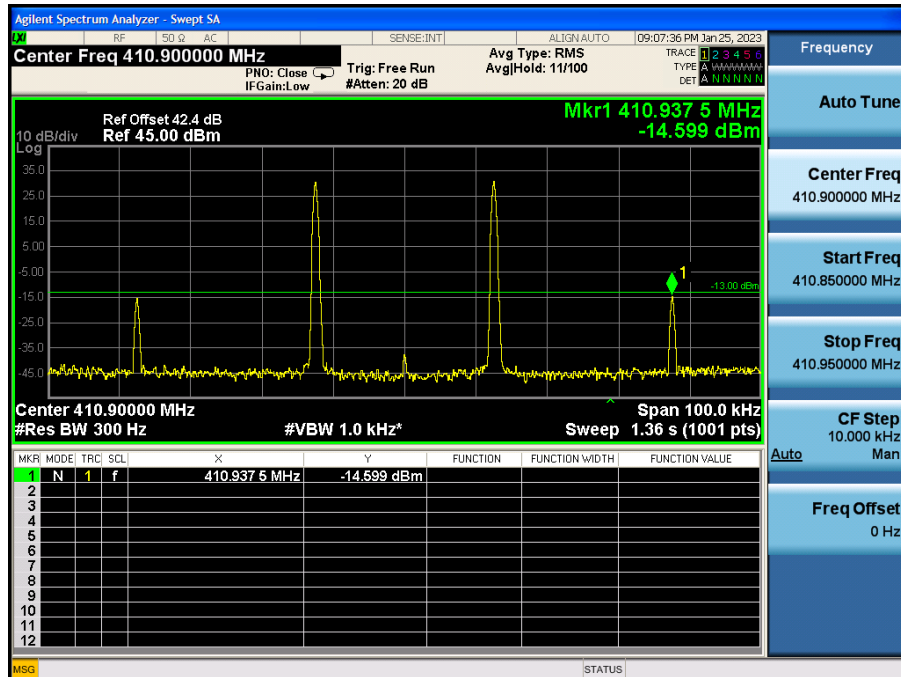
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Intermodulation

DL_25kHz_Pre-AGC



DL_25kHz_3dB above AGC



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7 Conducted Spurious emissions

Conducted Spurious emissions						
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	-24.80	≤-13	PASS
			1000-4200	-24.53	≤-13	PASS
Remark: The conducted spurious emissions 9kHz to 30MHz were very low and not displayed test plots in this report.						

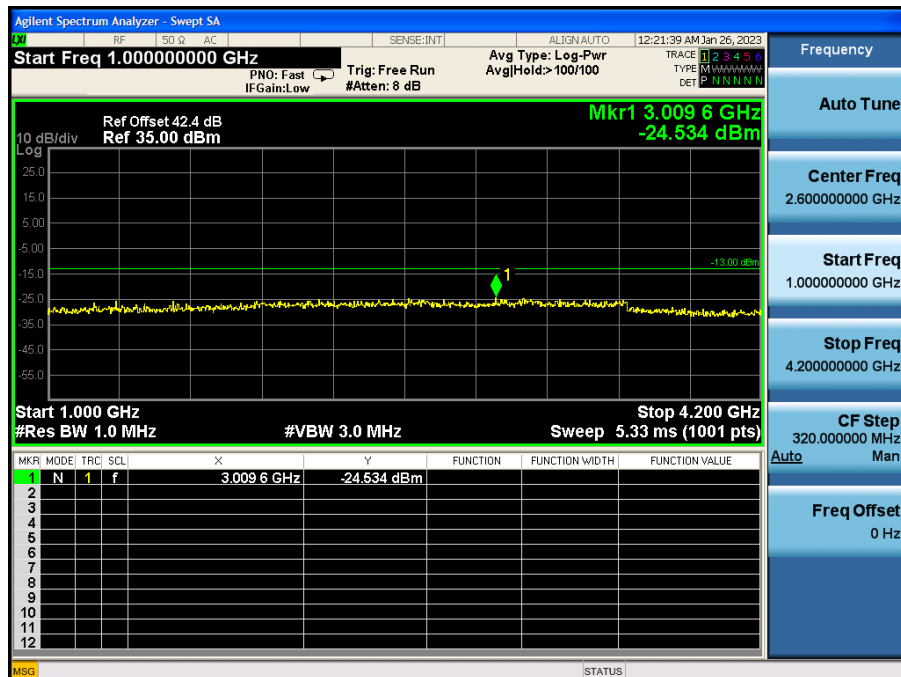
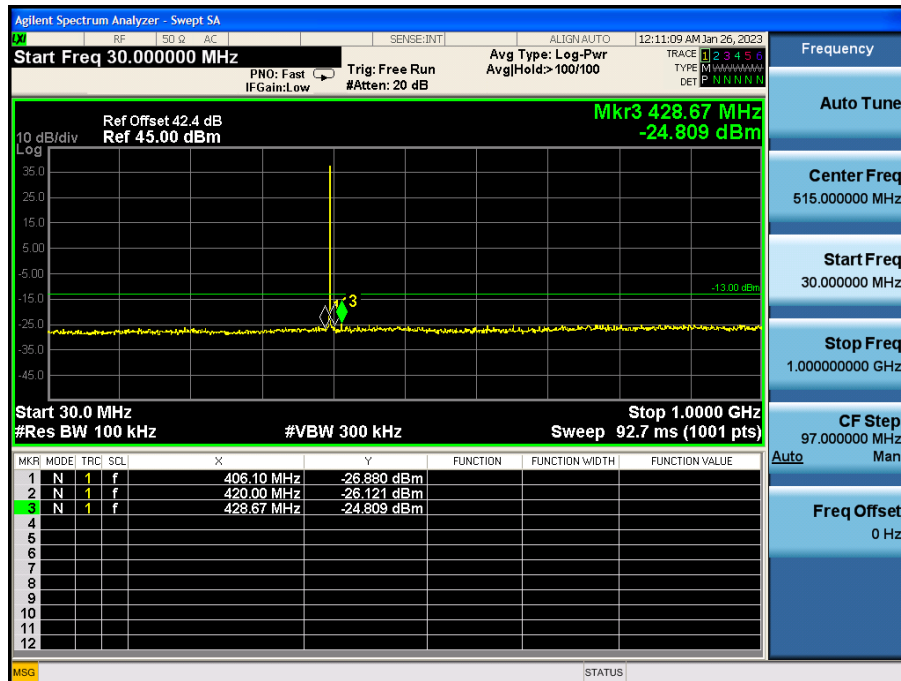


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Conducted Spurious emissions

DL_CW_MCH



8 Noise

Noise within the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	406.1-420	-41.54
Noise outside of the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	0.009-405.1	-46.57
	421-4200	-41.41

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 -41.54/10kHz+ 0dBi- 2.15dB= -43.69dBm, which did not exceed -43dBm in 10kHz measurement bandwidth.
3. The ERP of worst noise outside of the passband is -41.41/10kHz+ 0dBi- 2.15dB= -43.56dBm, 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.

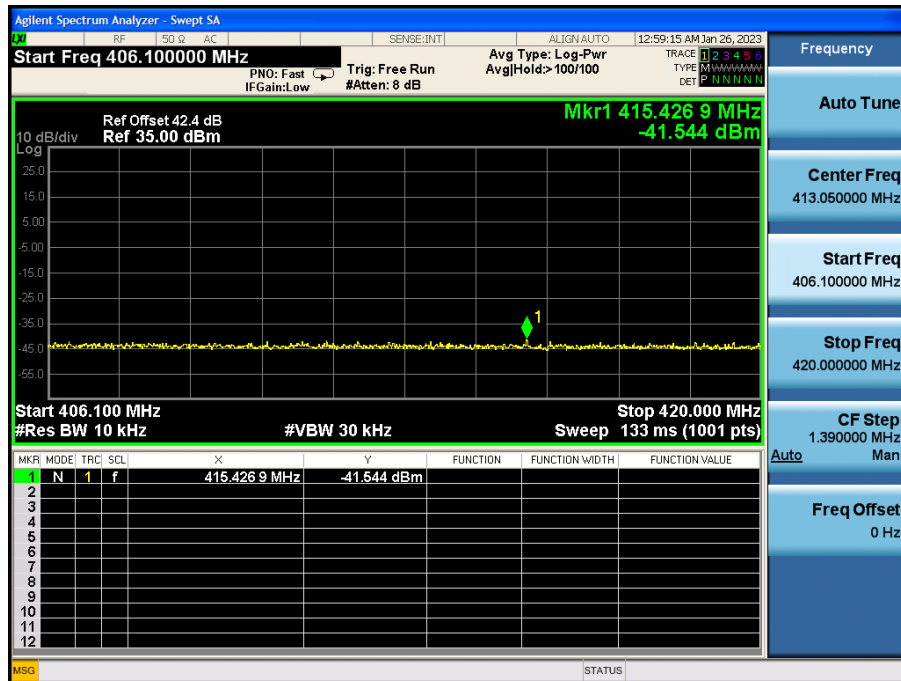


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Noise within the passband

DL

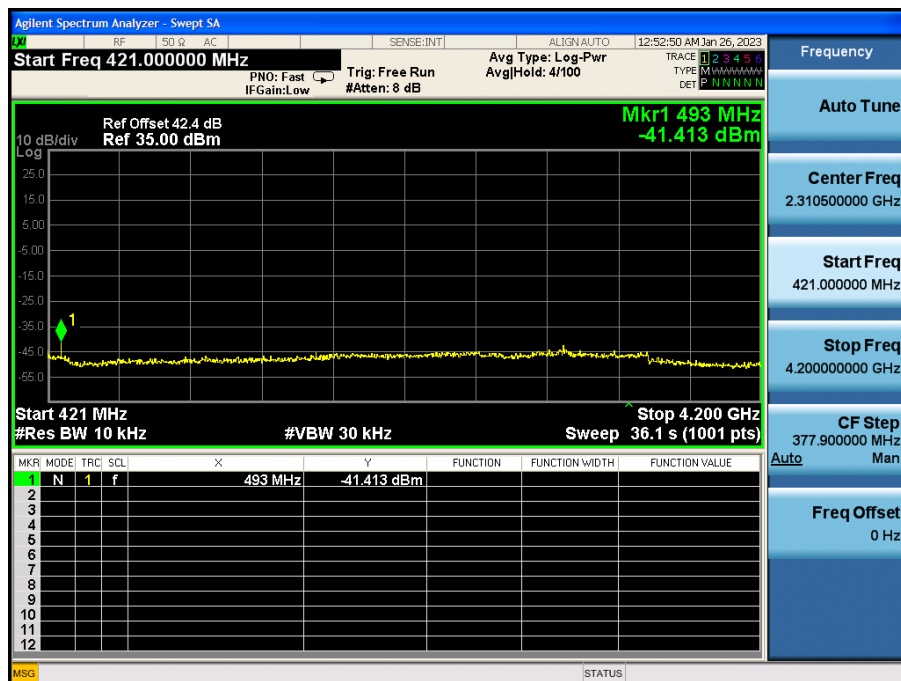
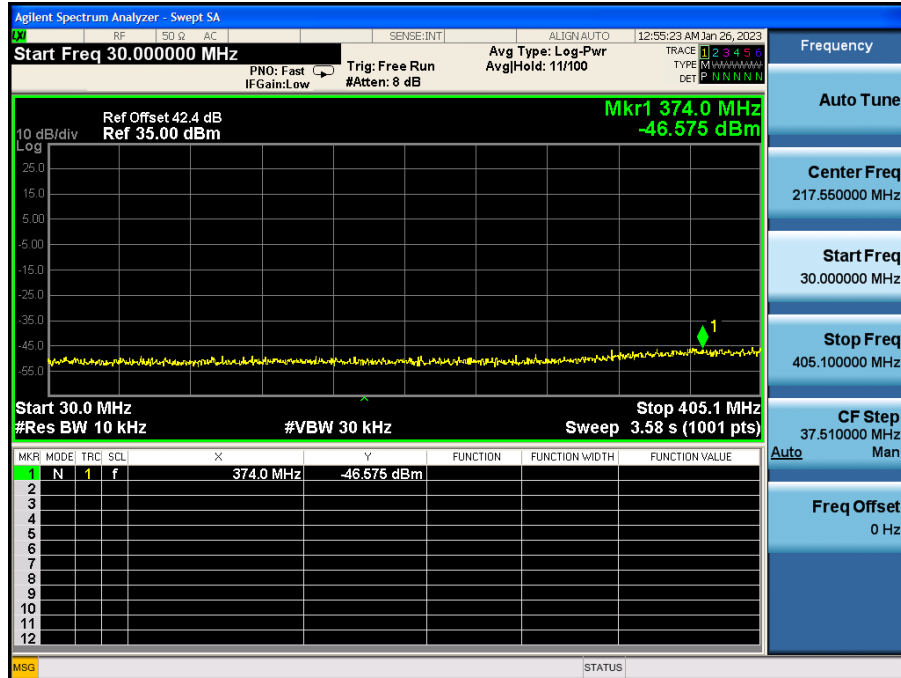


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Noise outside the passband

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	2.6	0.00629	PASS
			TN	VH	2.6	0.00629	PASS
	DMR	MCH	TN	VL	2.2	0.00533	PASS
			TN	VH	2.2	0.00533	PASS
	C4FM	MCH	TN	VL	3.2	0.00775	PASS
			TN	VH	3.2	0.00775	PASS
	H-DQPSK	MCH	TN	VL	2.1	0.00508	PASS
			TN	VH	2.1	0.00508	PASS
	TETRA	MCH	TN	VL	3.0	0.00726	PASS
			TN	VH	3.0	0.00726	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	FM	MCH	VN	+50	2.9	0.00702	PASS
			VN	+40	3.4	0.00823	PASS
			VN	+30	3.7	0.00896	PASS
			VN	+20	2.2	0.00533	PASS
			VN	+10	2.6	0.00629	PASS
			VN	0	2.2	0.00533	PASS
			VN	-10	3.7	0.00896	PASS
			VN	-20	2.7	0.00654	PASS
			VN	-30	4.2	0.01017	PASS
	DMR	MCH	VN	+50	4.0	0.00968	PASS
			VN	+40	4.1	0.00993	PASS
			VN	+30	3.6	0.00872	PASS
			VN	+20	2.2	0.00533	PASS
			VN	+10	1.8	0.00436	PASS
			VN	0	1.5	0.00363	PASS
			VN	-10	1.9	0.00460	PASS
			VN	-20	3.3	0.00799	PASS
			VN	-30	2.7	0.00654	PASS
	C4FM	MCH	VN	+50	2.2	0.00533	PASS
			VN	+40	3.4	0.00823	PASS
			VN	+30	3.4	0.00823	PASS
			VN	+20	3.1	0.00751	PASS
			VN	+10	2.7	0.00654	PASS
			VN	0	3.2	0.00775	PASS
			VN	-10	3.7	0.00896	PASS
			VN	-20	2.8	0.00678	PASS
			VN	-30	2.0	0.00484	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	1.4	0.00339	PASS
			VN	+40	2.5	0.00605	PASS
			VN	+30	3.6	0.00872	PASS
			VN	+20	3.8	0.00920	PASS
			VN	+10	4.1	0.00993	PASS
			VN	0	2.8	0.00678	PASS
			VN	-10	1.3	0.00315	PASS
			VN	-20	4.1	0.00993	PASS
			VN	-30	3.5	0.00847	PASS
	TRTRA	MCH	VN	+50	2.4	0.00581	PASS
			VN	+40	3.7	0.00896	PASS
			VN	+30	3.6	0.00872	PASS
			VN	+20	2.8	0.00678	PASS
			VN	+10	1.8	0.00436	PASS
			VN	0	3.9	0.00944	PASS
			VN	-10	3.4	0.00823	PASS
			VN	-20	3.8	0.00920	PASS
			VN	-30	2.2	0.00533	PASS



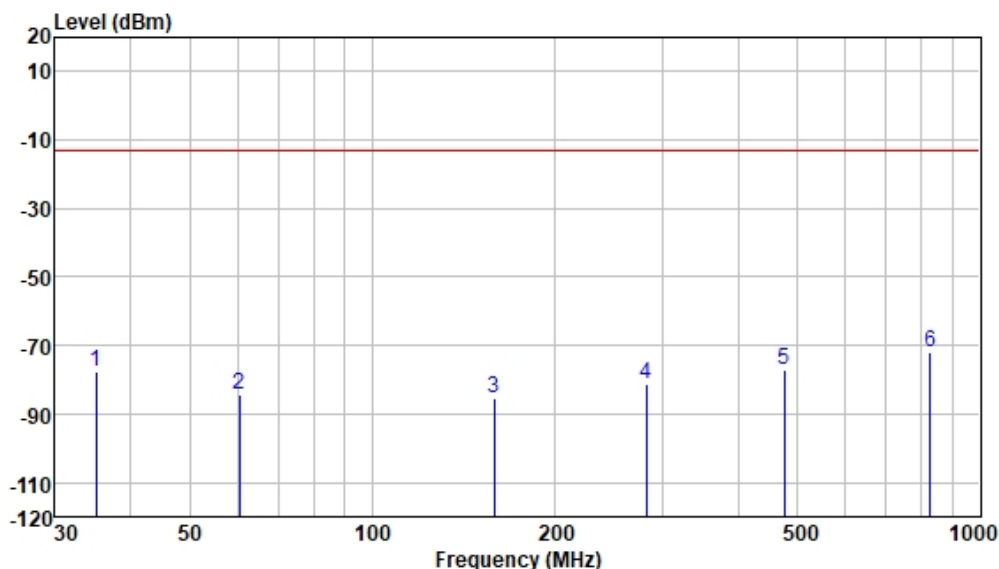
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10 Radiated Spurious emissions below 1GHz

Radiated Spurious emissions

DL_CW_MCH_30MHz-1GHz_Horizontal



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	35.00	-80.55	2.87	-77.68	-13.00	-64.68	HORIZONTAL
2	60.28	-81.55	-2.57	-84.12	-13.00	-71.12	HORIZONTAL
3	158.67	-78.67	-6.50	-85.17	-13.00	-72.17	HORIZONTAL
4	281.99	-78.55	-2.47	-81.02	-13.00	-68.02	HORIZONTAL
5	475.50	-77.31	0.34	-76.97	-13.00	-63.97	HORIZONTAL
6	827.49	-79.01	7.09	-71.92	-13.00	-58.92	HORIZONTAL

Remark:

The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.

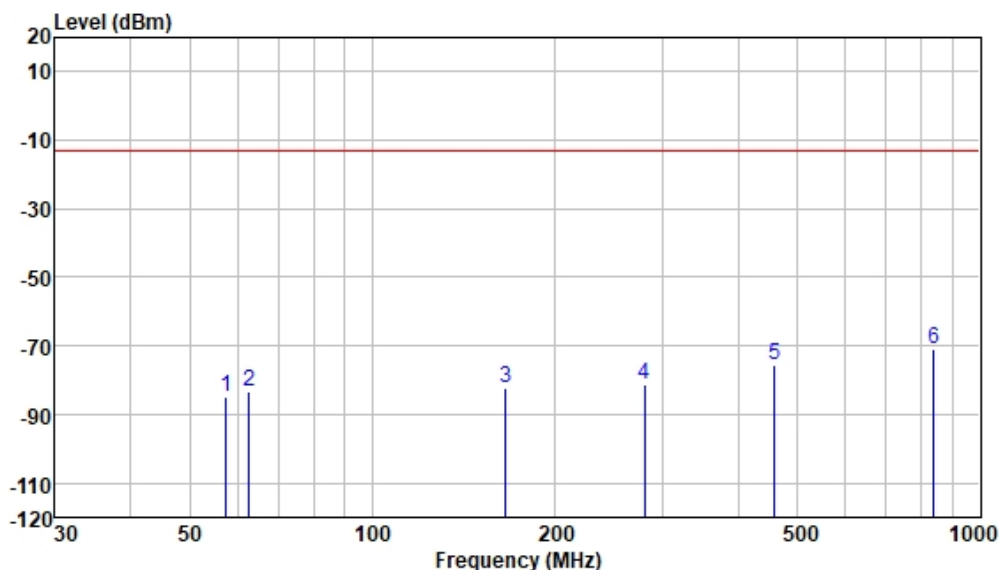


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Radiated Spurious emissions

DL_CW_MCH_30MHz-1GHz_Vertical



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	57.39	-81.95	-2.92	-84.87	-13.00	-71.87	VERTICAL
2	62.65	-80.08	-3.39	-83.47	-13.00	-70.47	VERTICAL
3	165.49	-78.57	-3.94	-82.51	-13.00	-69.51	VERTICAL
4	280.02	-78.78	-2.71	-81.49	-13.00	-68.49	VERTICAL
5	459.11	-77.47	1.64	-75.83	-13.00	-62.83	VERTICAL
6	839.18	-78.66	7.78	-70.88	-13.00	-57.88	VERTICAL

Remark:

The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.



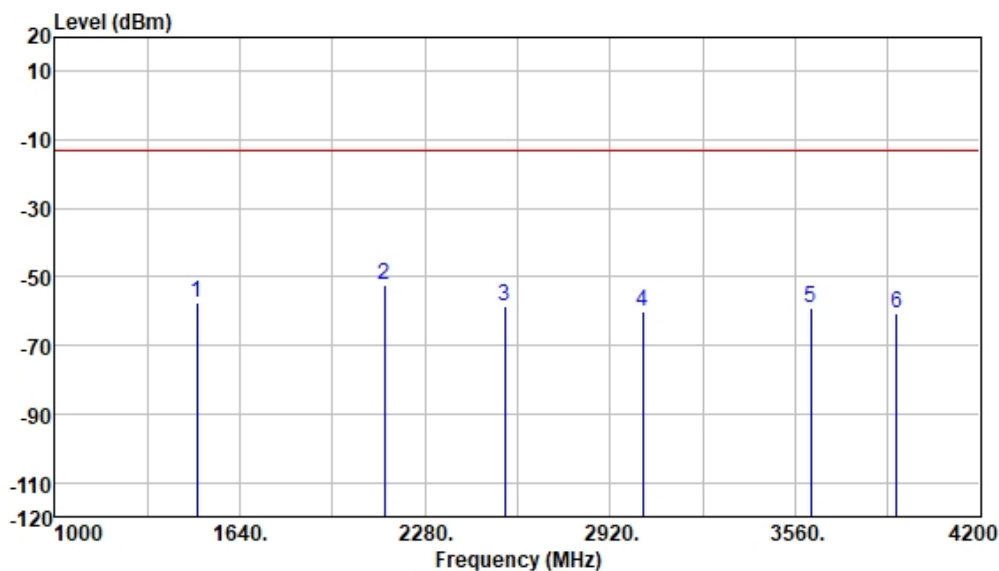
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11 Radiated Spurious emissions above 1GHz

Radiated Spurious emissions

DL_CW_MCH_above 1GHz_Horizontal



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1489.60	-62.18	4.71	-57.47	-13.00	-44.47	HORIZONTAL
2	2139.20	-61.67	9.38	-52.29	-13.00	-39.29	HORIZONTAL
3	2555.20	-64.84	6.33	-58.51	-13.00	-45.51	HORIZONTAL
4	3032.00	-62.59	2.45	-60.14	-13.00	-47.14	HORIZONTAL
5	3614.40	-63.12	4.30	-58.82	-13.00	-45.82	HORIZONTAL
6	3912.00	-63.26	2.91	-60.35	-13.00	-47.35	HORIZONTAL

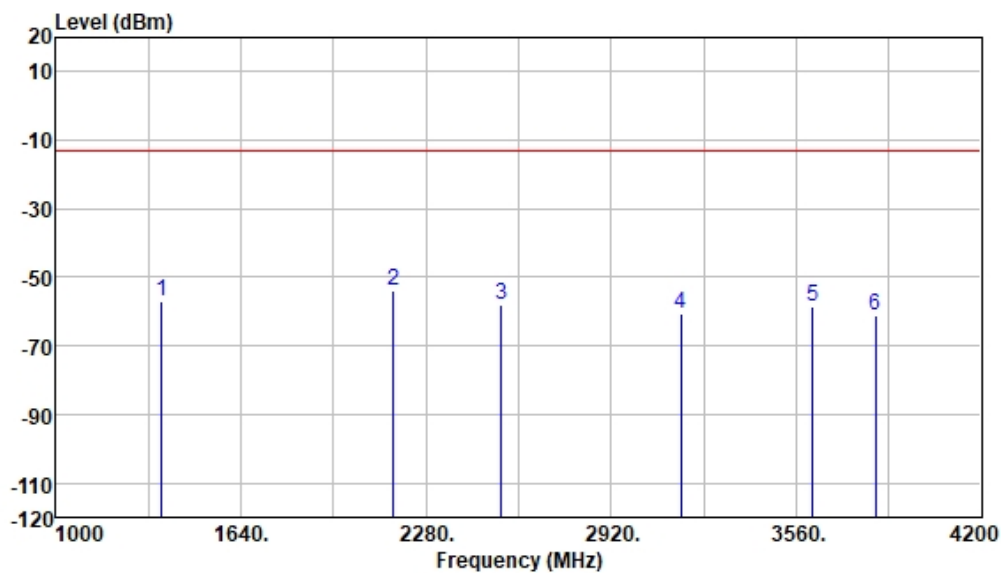


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Radiated Spurious emissions

DL_CW_MCH_above 1GHz_Vertical



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1364.80	-61.17	4.10	-57.07	-13.00	-44.07	VERTICAL
2	2168.00	-62.98	9.34	-53.64	-13.00	-40.64	VERTICAL
3	2539.20	-64.90	6.73	-58.17	-13.00	-45.17	VERTICAL
4	3160.00	-63.26	2.65	-60.61	-13.00	-47.61	VERTICAL
5	3617.60	-63.11	4.68	-58.43	-13.00	-45.43	VERTICAL
6	3835.20	-64.10	2.91	-61.19	-13.00	-48.19	VERTICAL

--End of Appendix--



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