

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
UL	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

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Emission Masks					
Test path	Test signal	Test channel	Signal level	Emission mask	Verdict
UL	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
	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

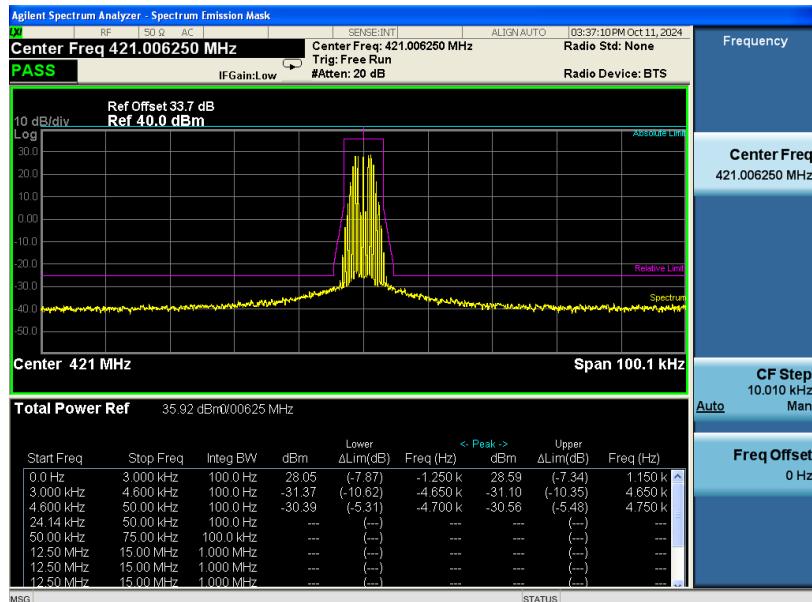


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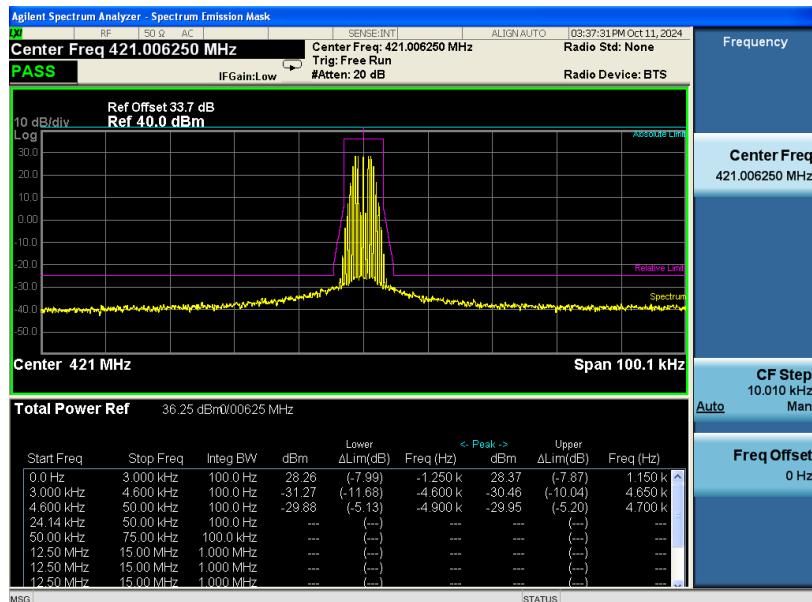
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Emission Masks

DL_FM_LCH_Pre-AGC



DL_FM_LCH_3dB above AGC



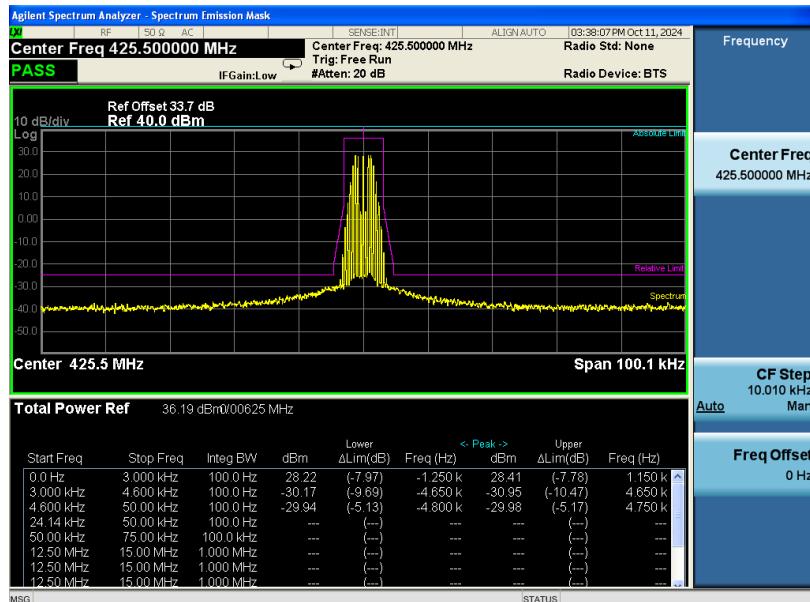
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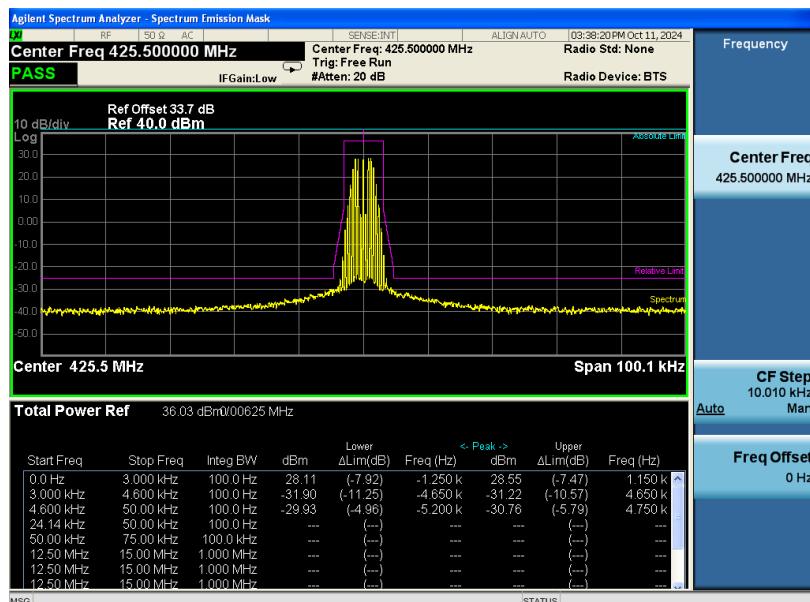


Emission Masks

DL_FM_MCH_Pre-AGC



DL_FM_MCH_3dB above AGC



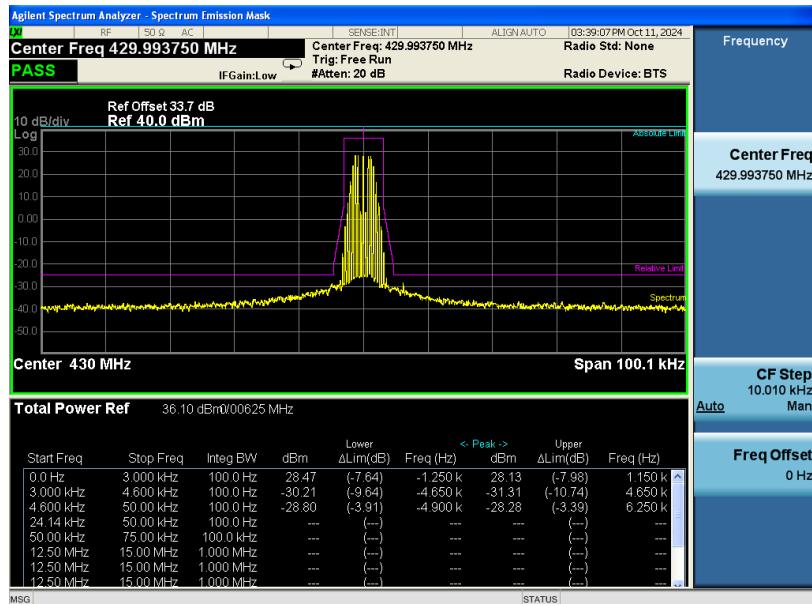
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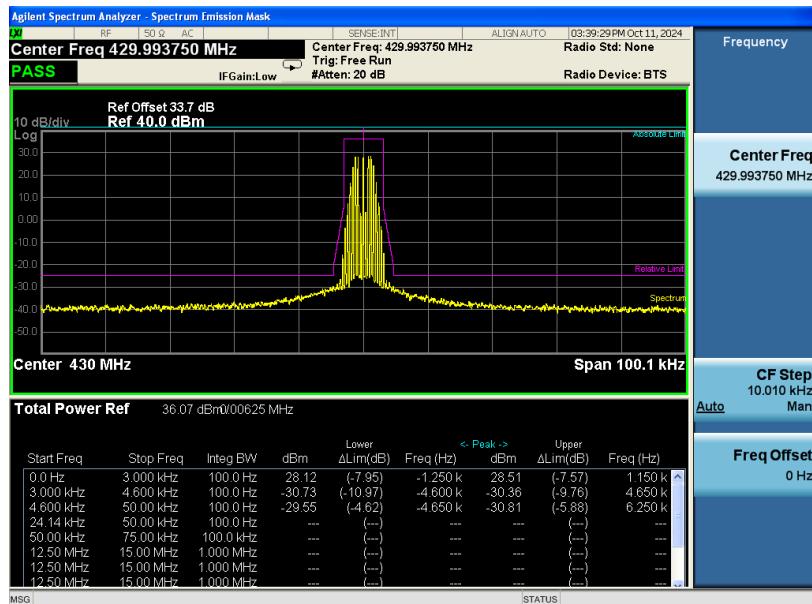


Emission Masks

DL_FM_HCH_Pre-AGC



DL_FM_HCH_3dB above AGC



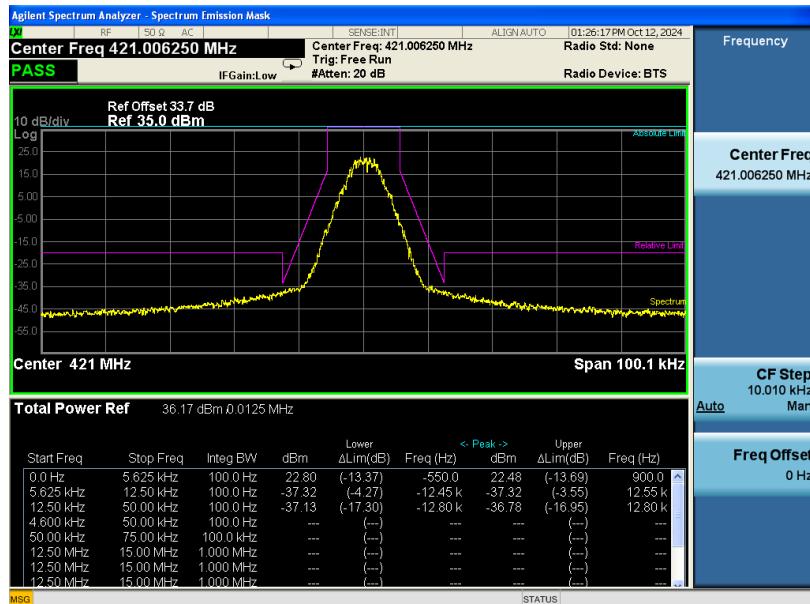
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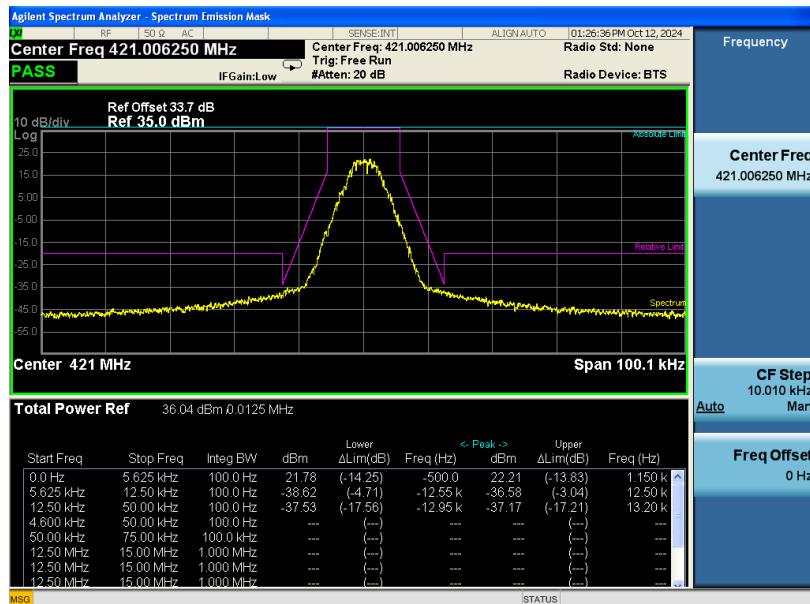


Emission Masks

DL_DMR_LCH_Pre-AGC



DL_DMR_LCH_3dB above AGC



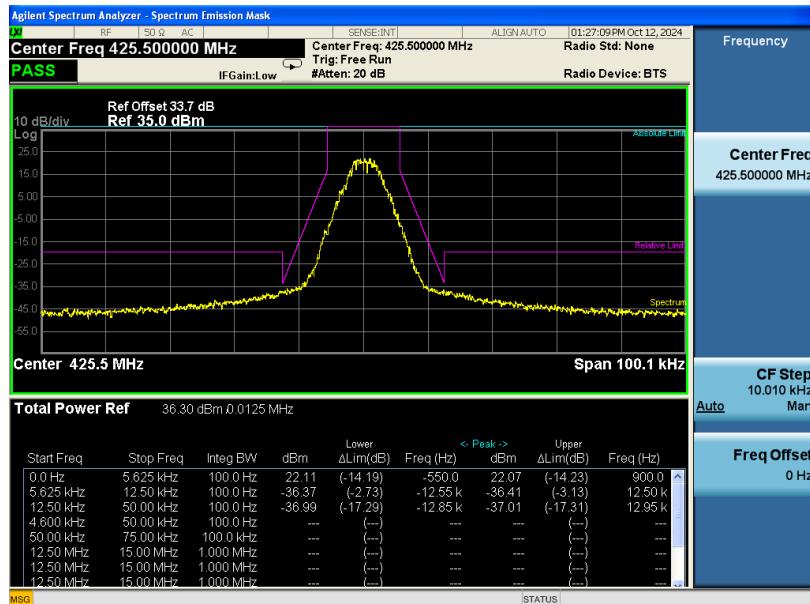
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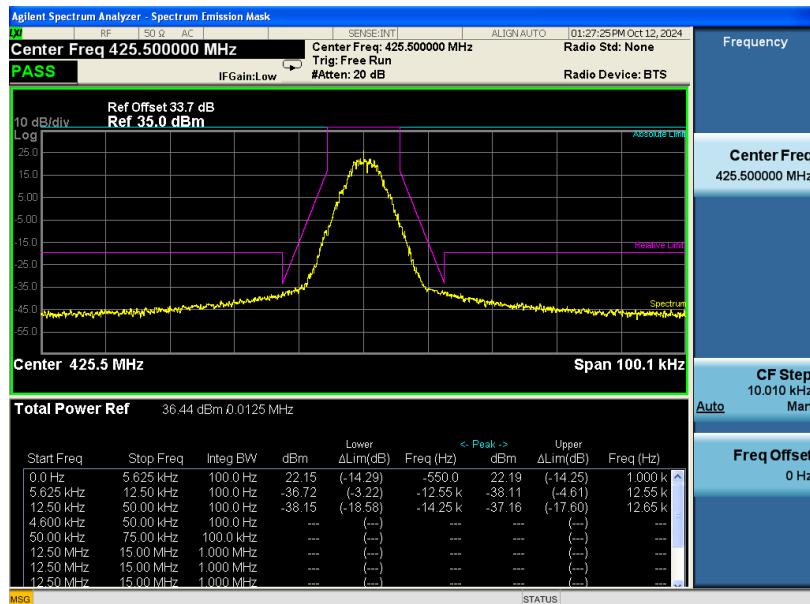


Emission Masks

DL_DMR_MCH_Pre-AGC



DL_DMR_MCH_3dB above AGC



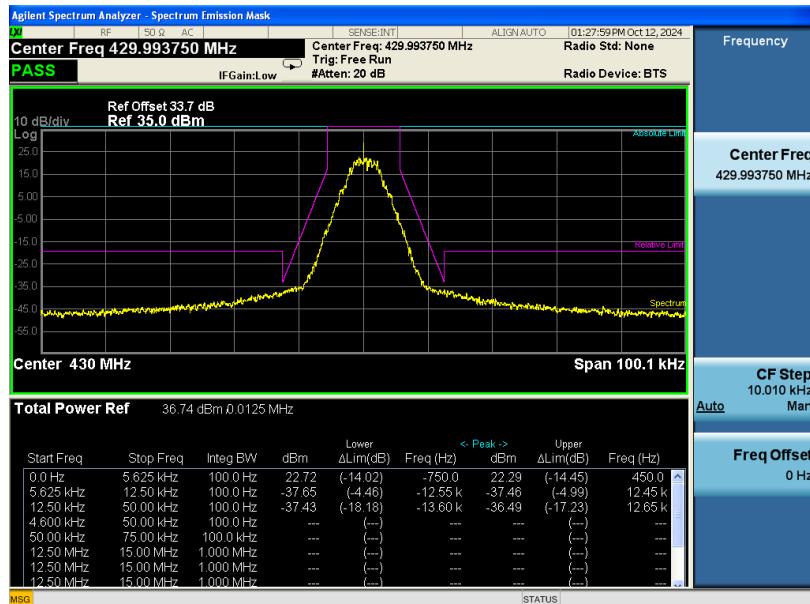
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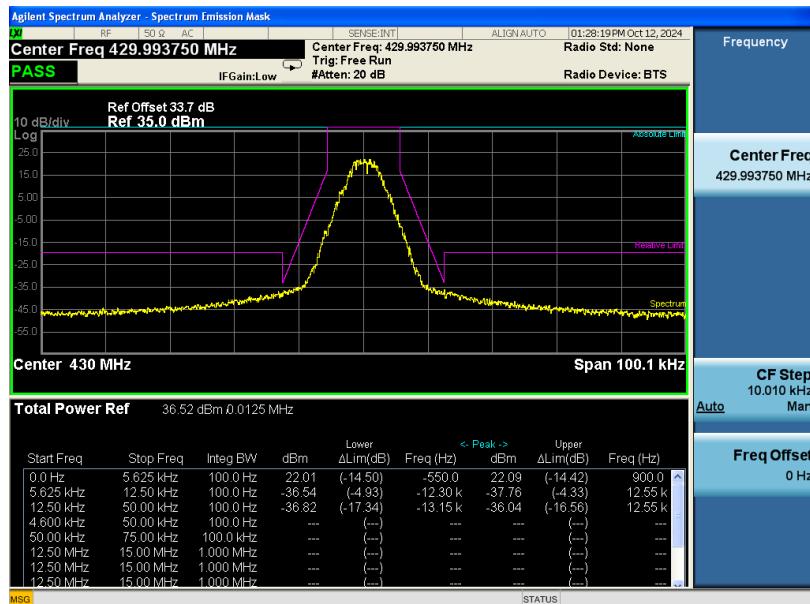


Emission Masks

DL_DMR_HCH_Pre-AGC



DL_DMR_HCH_3dB above AGC



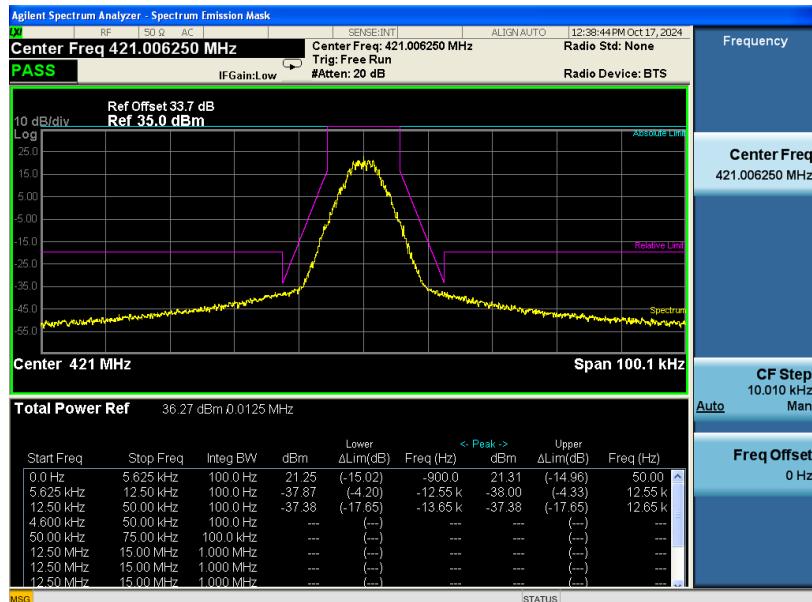
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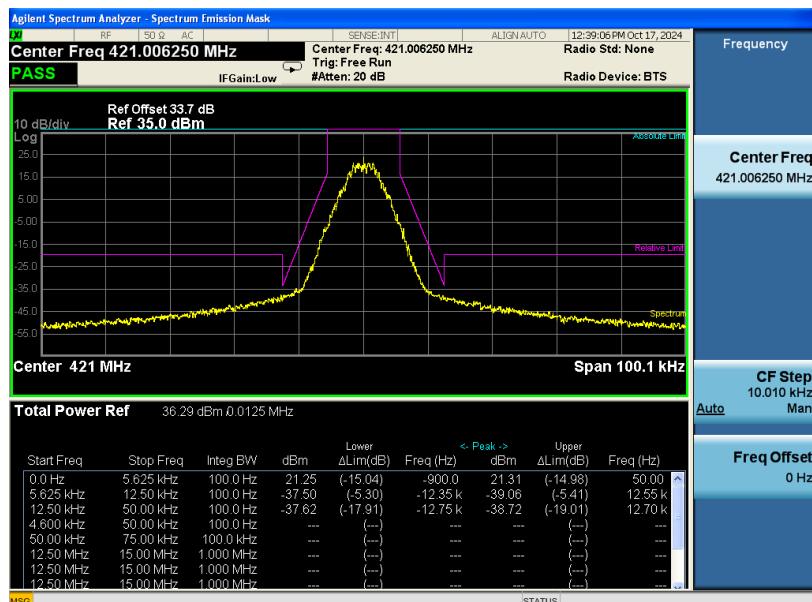


Emission Masks

DL_C4FM_LCH_Pre-AGC



DL C4FM LCH 3dB above AGC



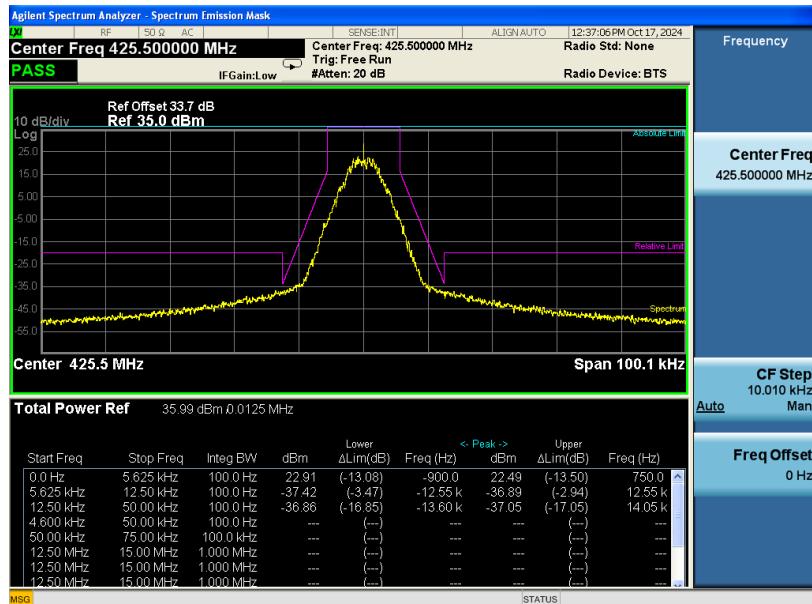
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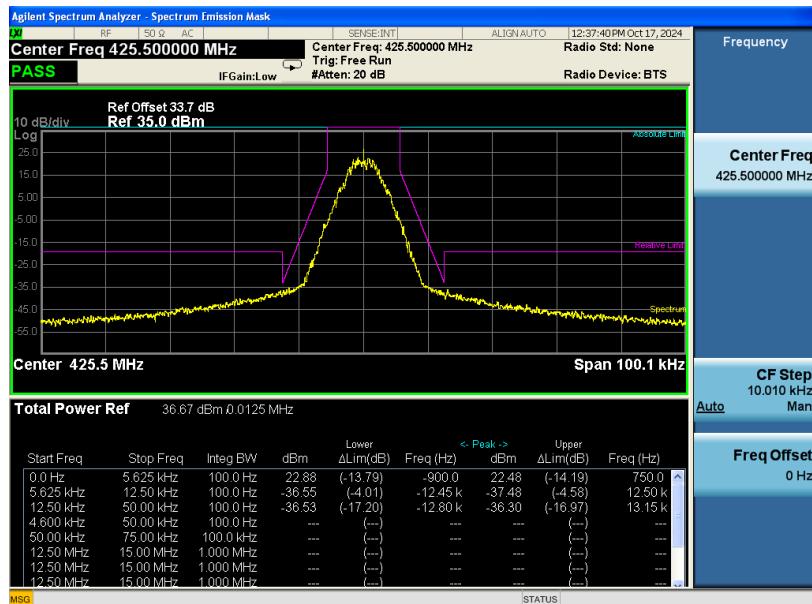


Emission Masks

DL_C4FM_MCH_Pre-AGC



DL_C4FM_MCH_3dB above AGC



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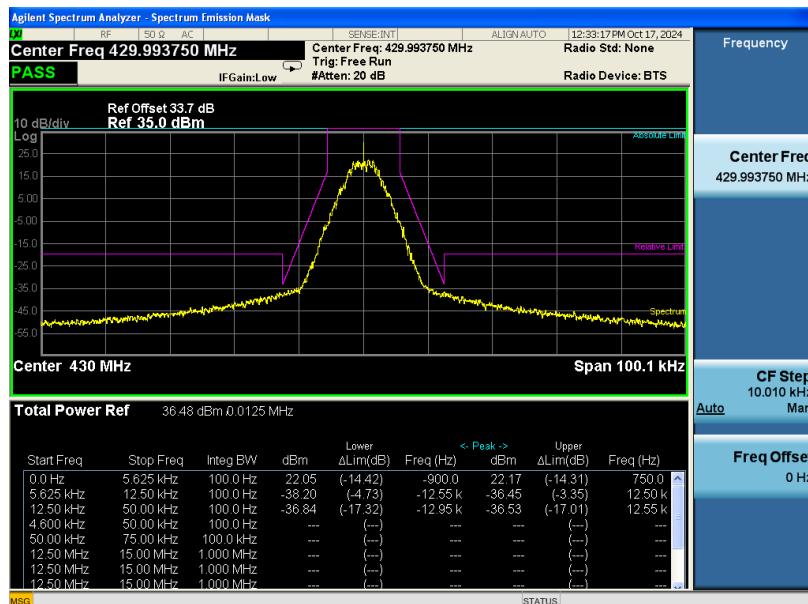
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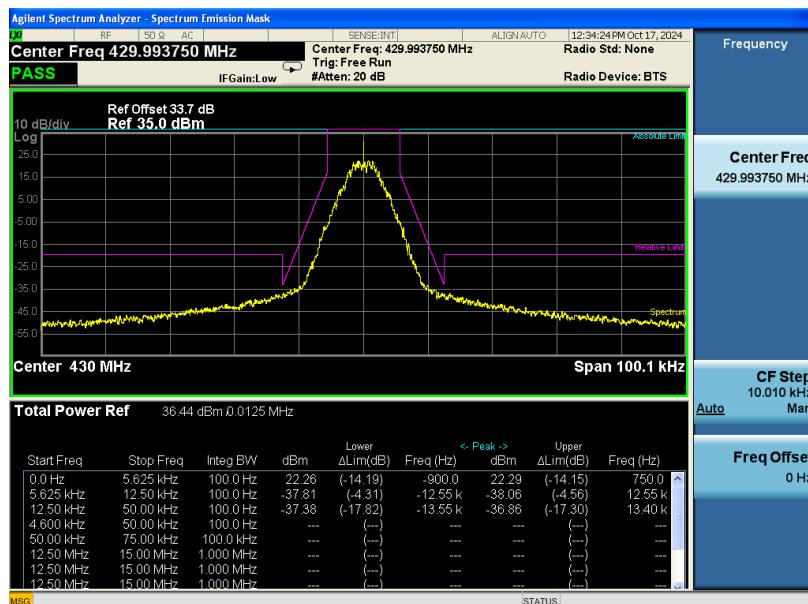
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Emission Masks

DL_C4FM_HCH_Pre-AGC



DL_C4FM_HCH_3dB above AGC



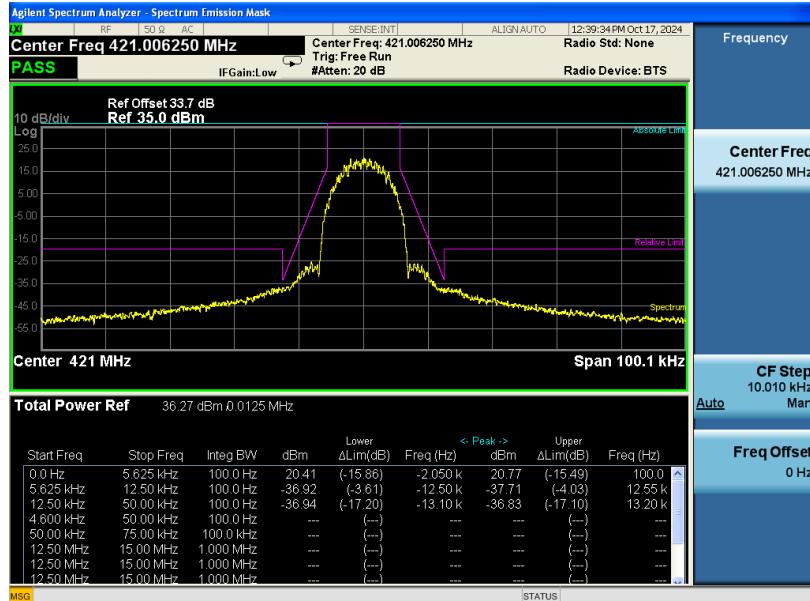
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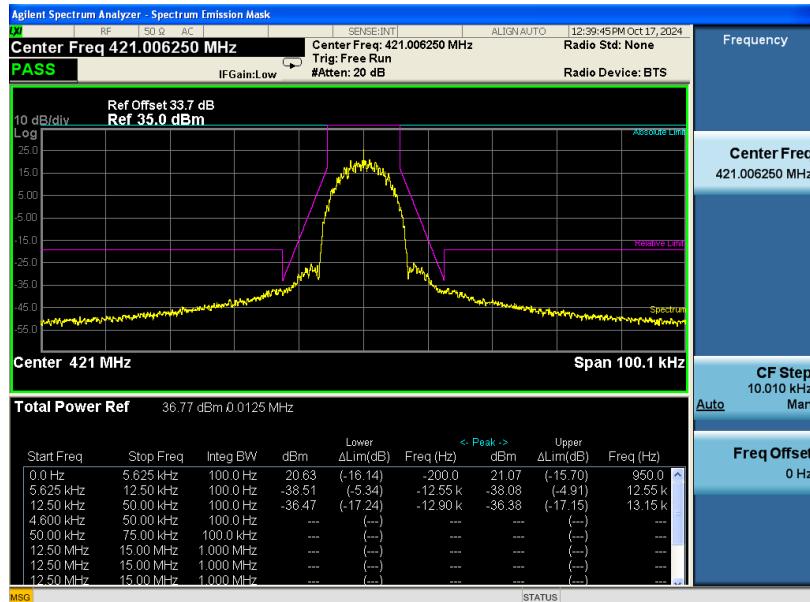


Emission Masks

DL_H-DQPSK_LCH_Pre-AGC



DL_H-DQPSK_LCH_3dB above AGC



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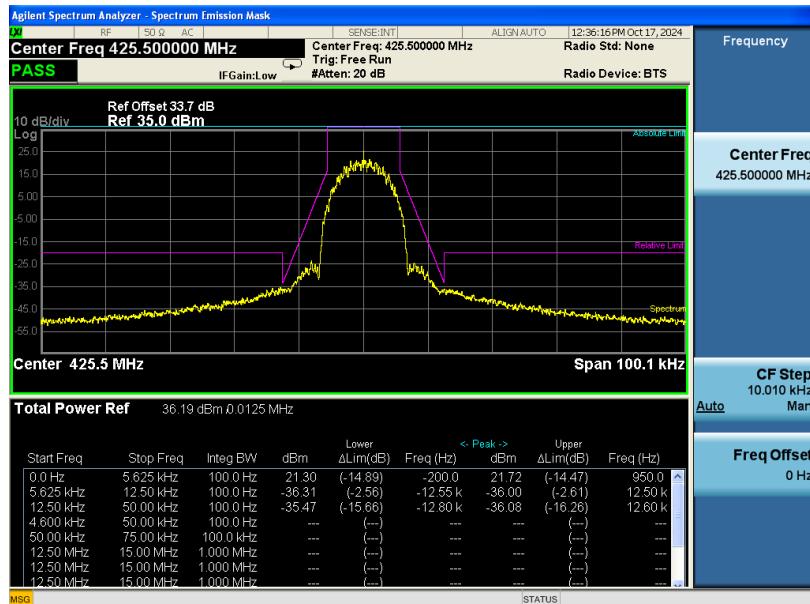
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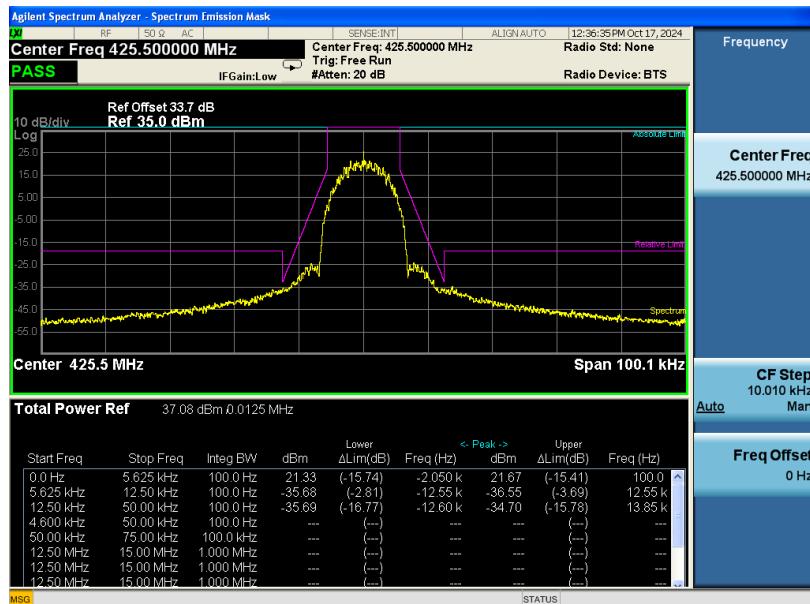
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DL_H-DQPSK_MCH_Pre-AGC



DL_H-DQPSK_MCH_3dB above AGC



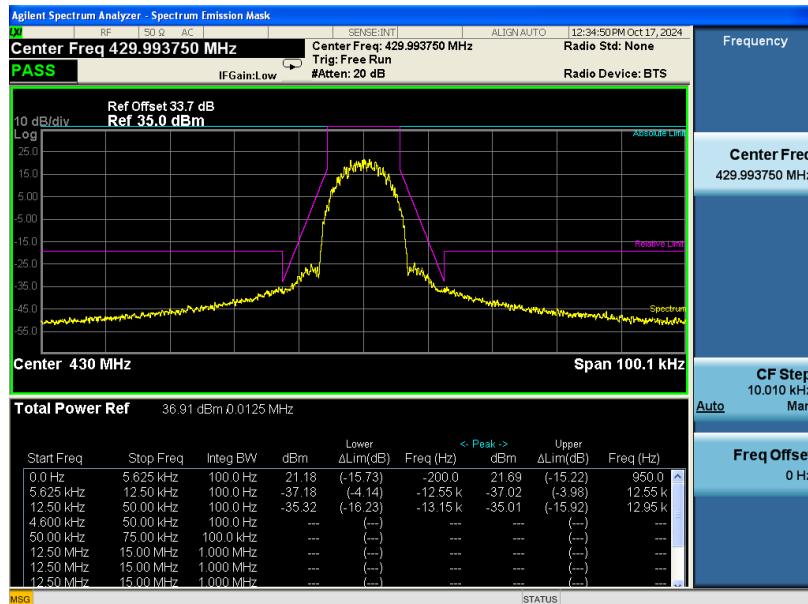
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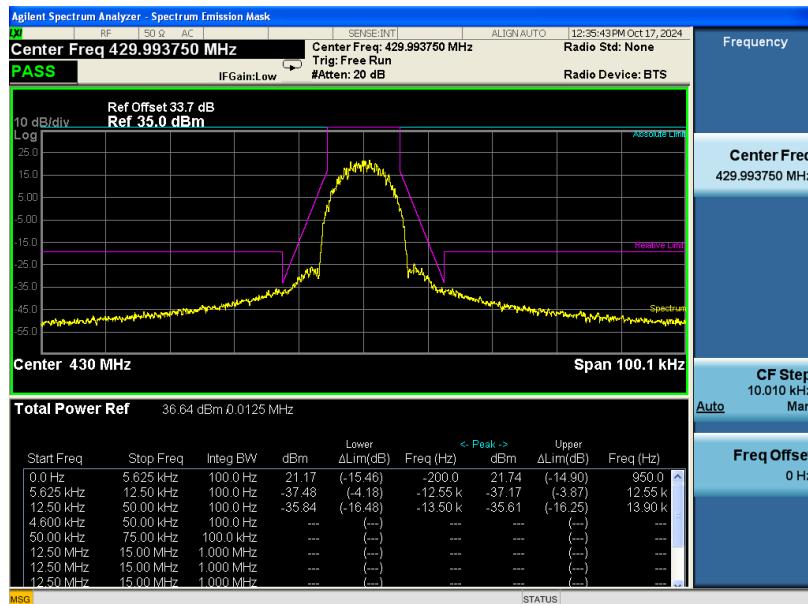


Emission Masks

DL_H-DQPSK_HCH_Pre-AGC



DL_H-DQPSK_HCH_3dB above AGC



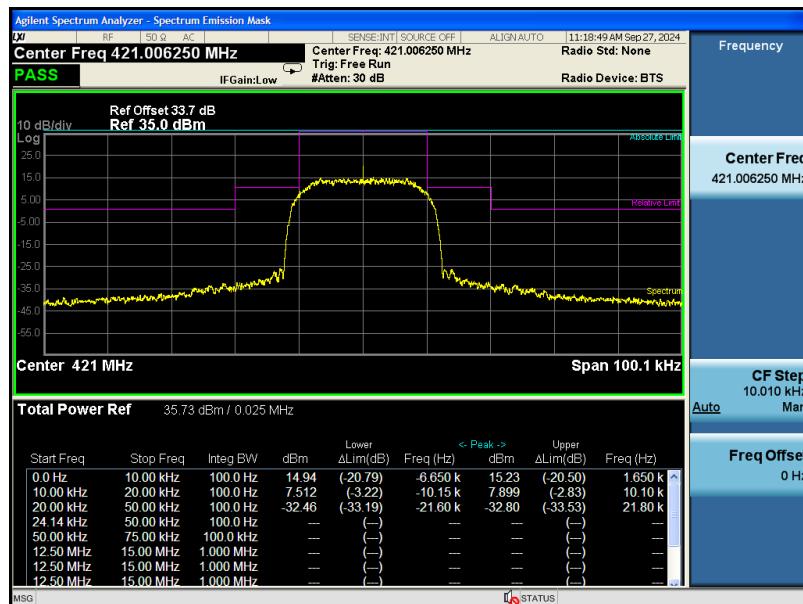
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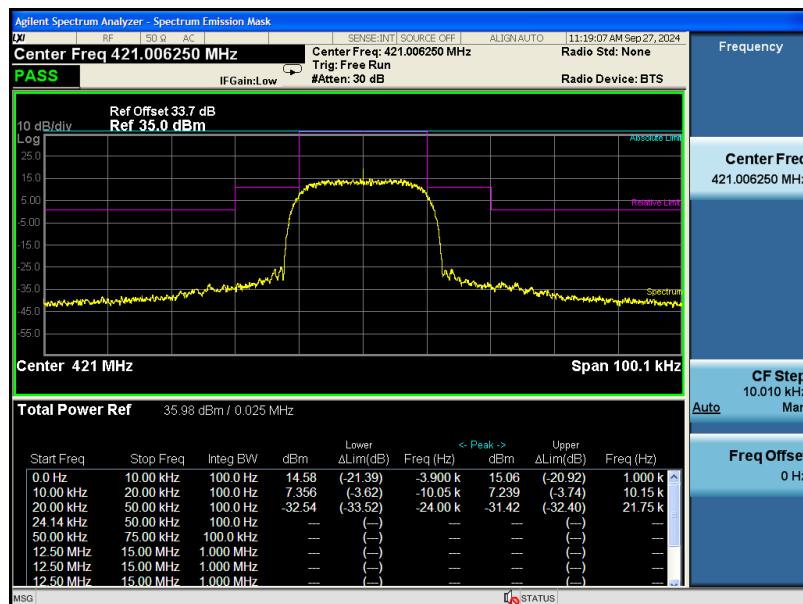


Emission Masks

DL_TETRA_LCH_Pre-AGC



DL_TETRA_LCH_3dB above AGC



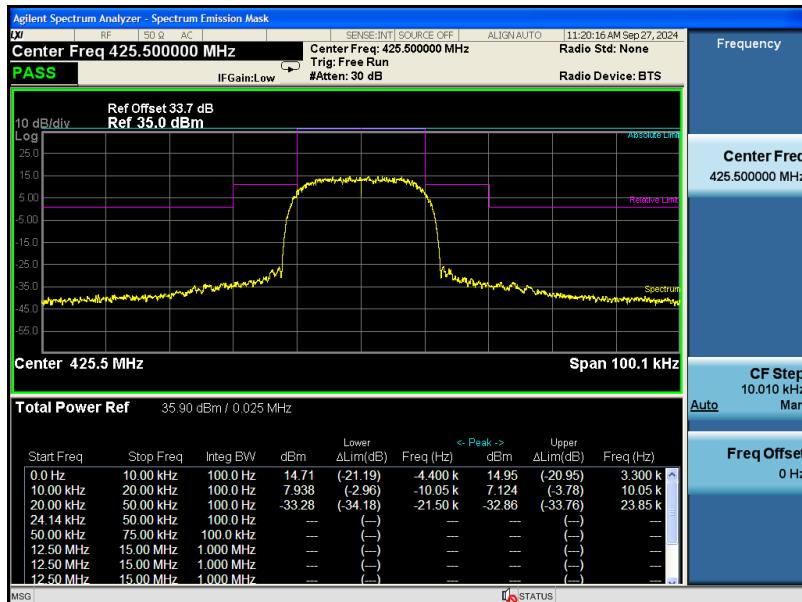
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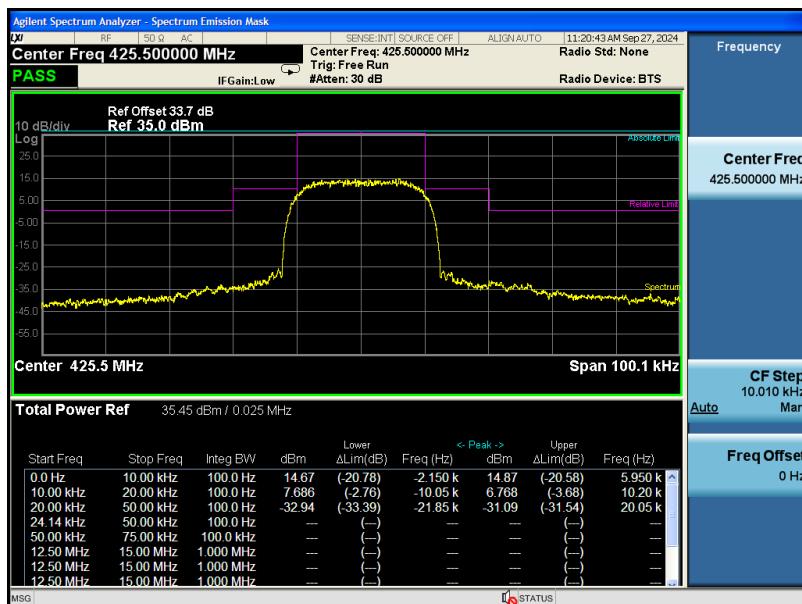


Emission Masks

DL_TETRA_MCH_Pre-AGC



DL_TETRA_MCH_3dB above AGC



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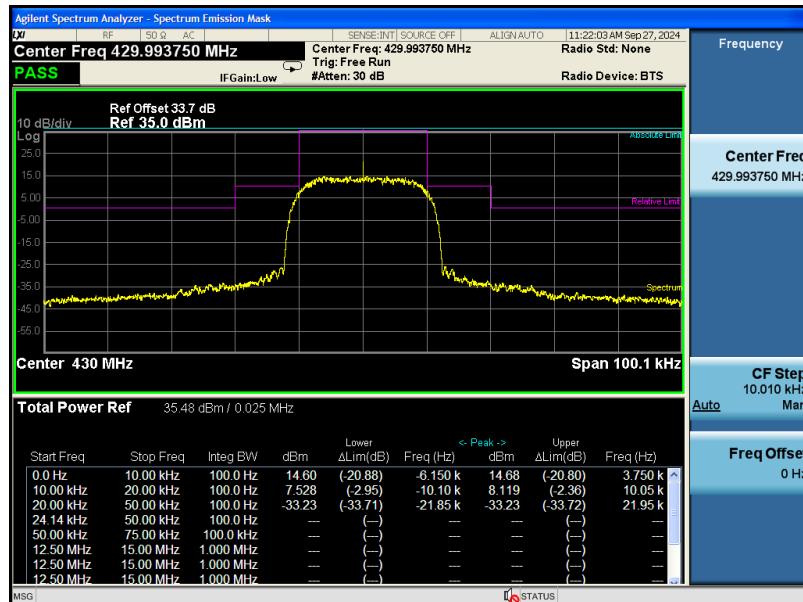
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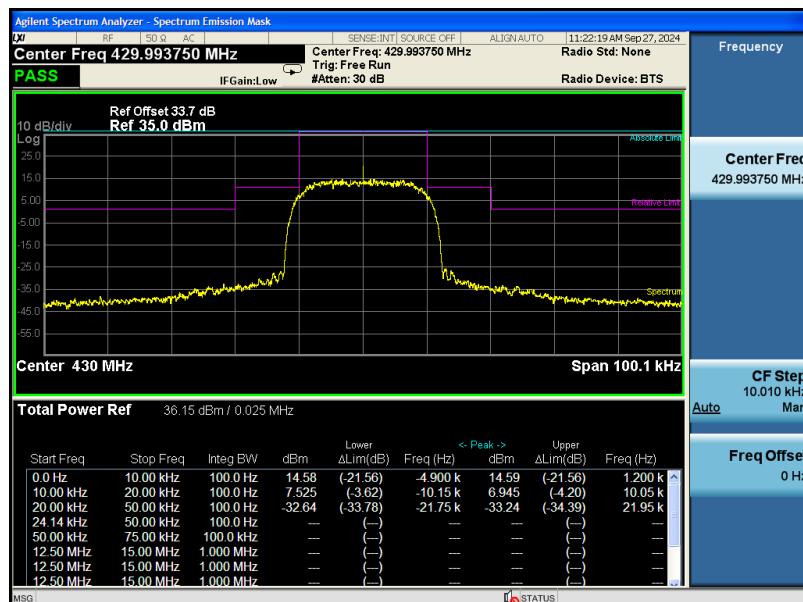
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Emission Masks

DL_TETRA_HCH_Pre-AGC



DL_TETRA_HCH_3dB above AGC



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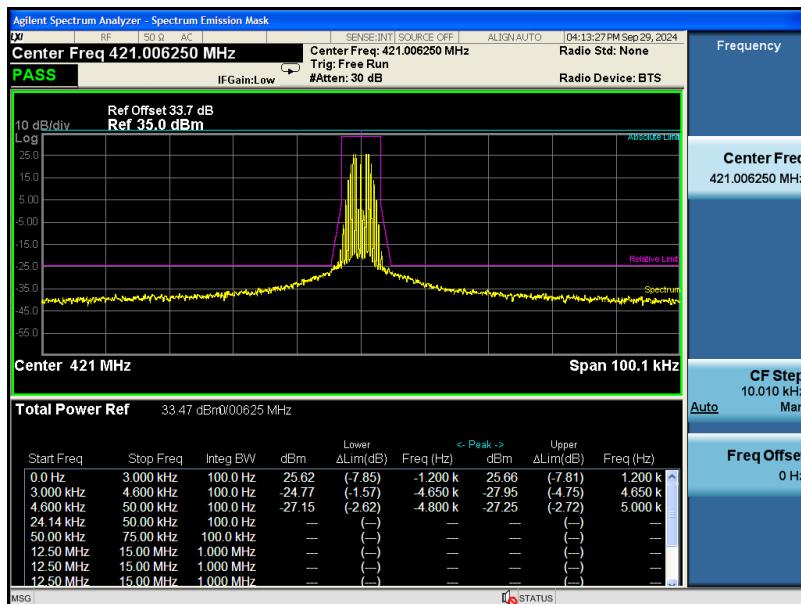


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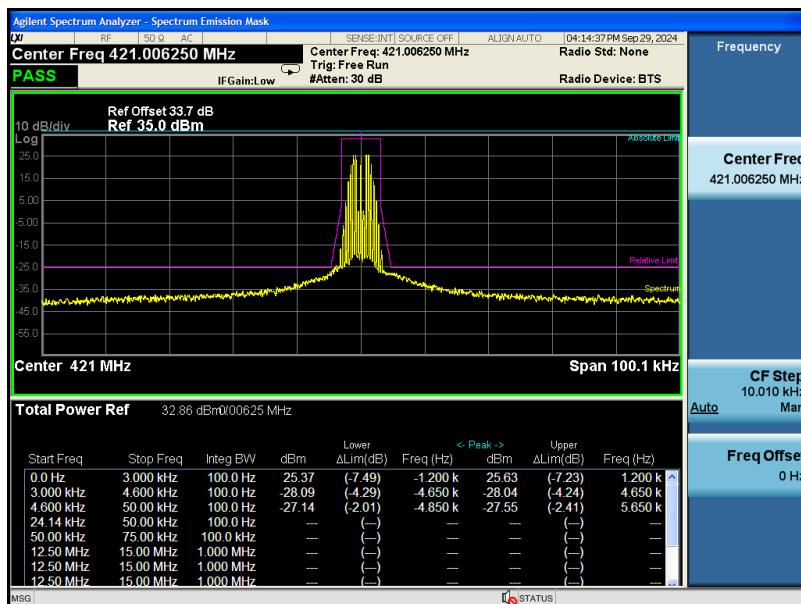
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Emission Masks

UL_FM_LCH_Pre-AGC



UL_FM_LCH_3dB above AGC



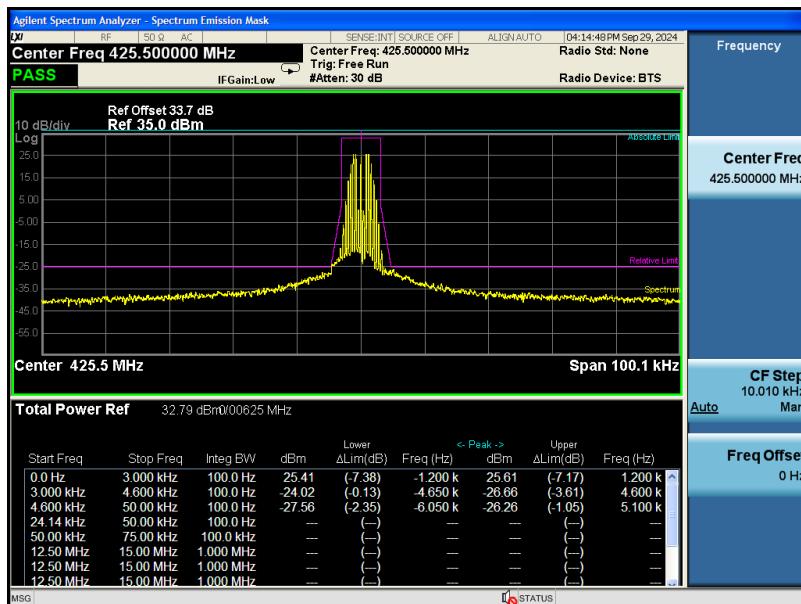
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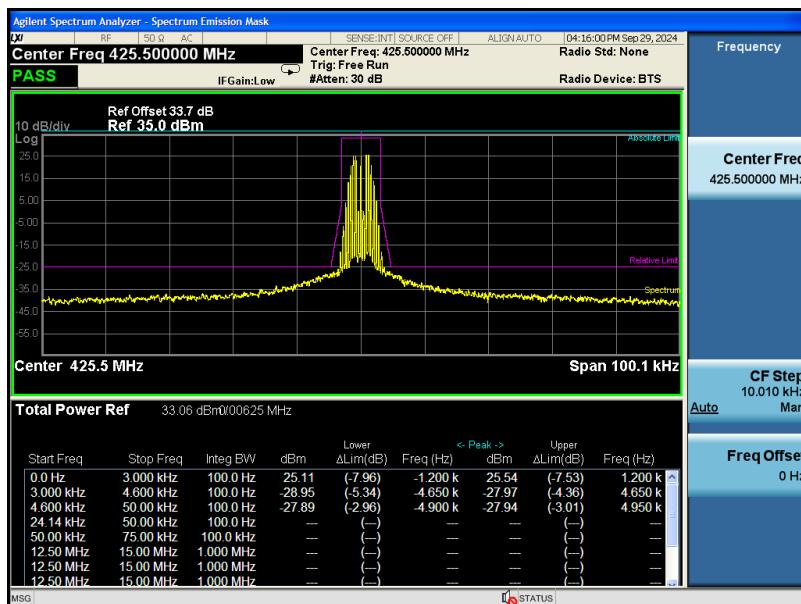


Emission Masks

UL_FM_MCH_Pre-AGC



UL_FM_MCH_3dB above AGC



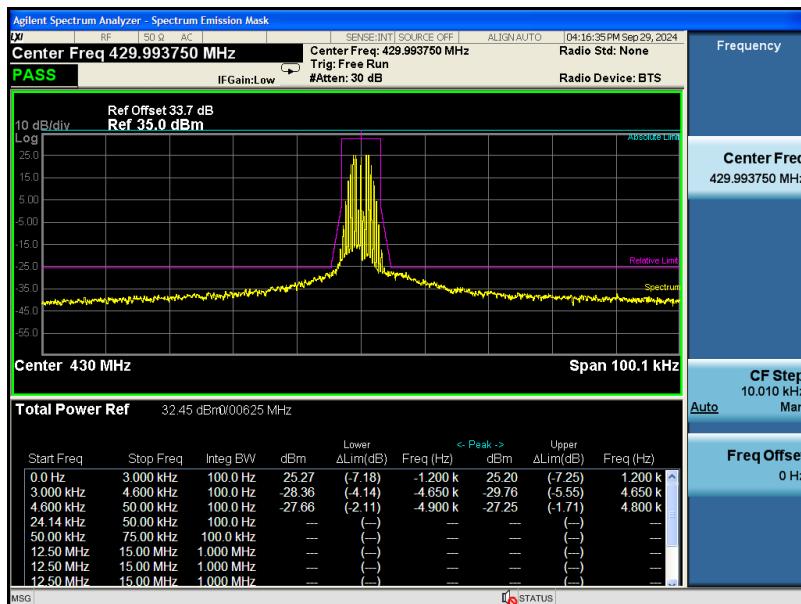
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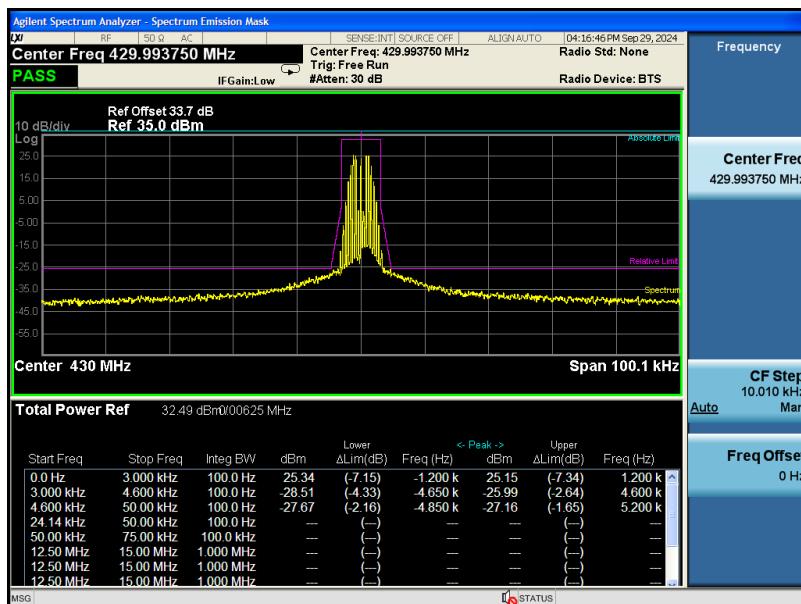


Emission Masks

UL_FM_HCH_Pre-AGC



UL_FM_HCH_3dB above AGC



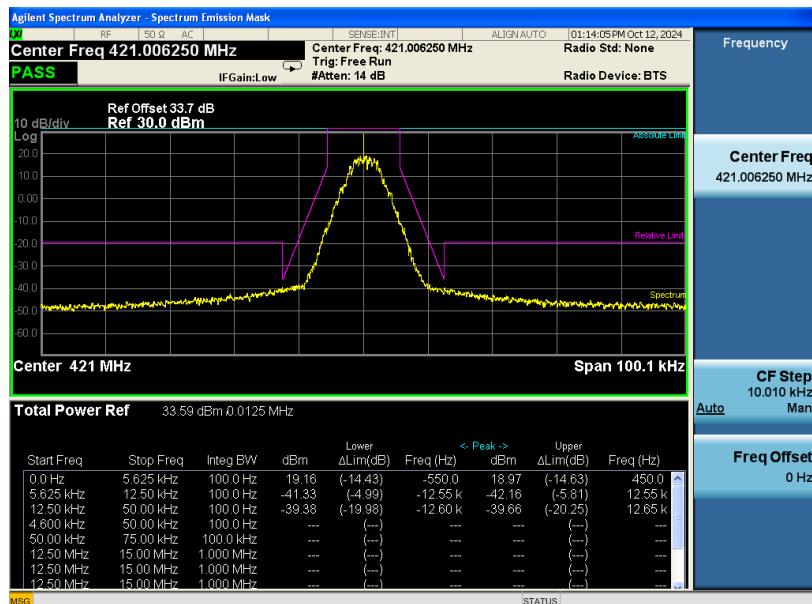
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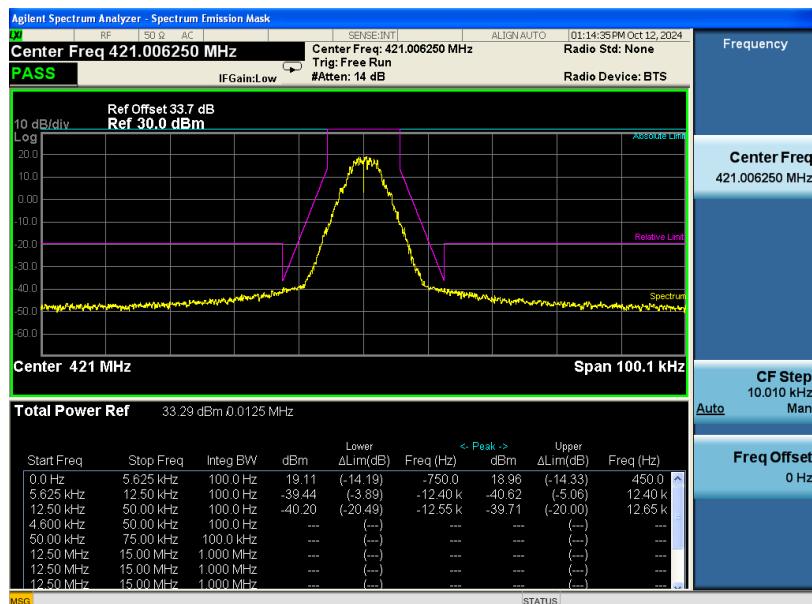


Emission Masks

UL_DMR_LCH_Pre-AGC



UL_DMR_LCH_3dB above AGC



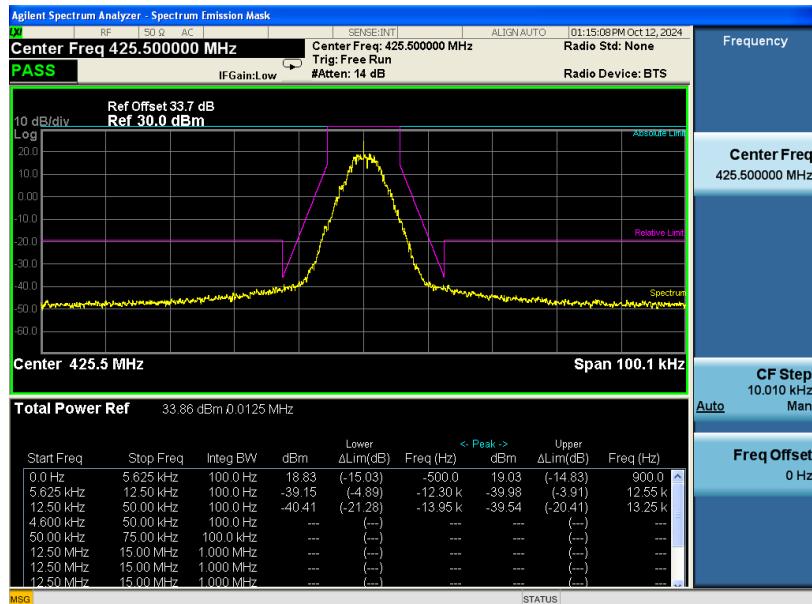
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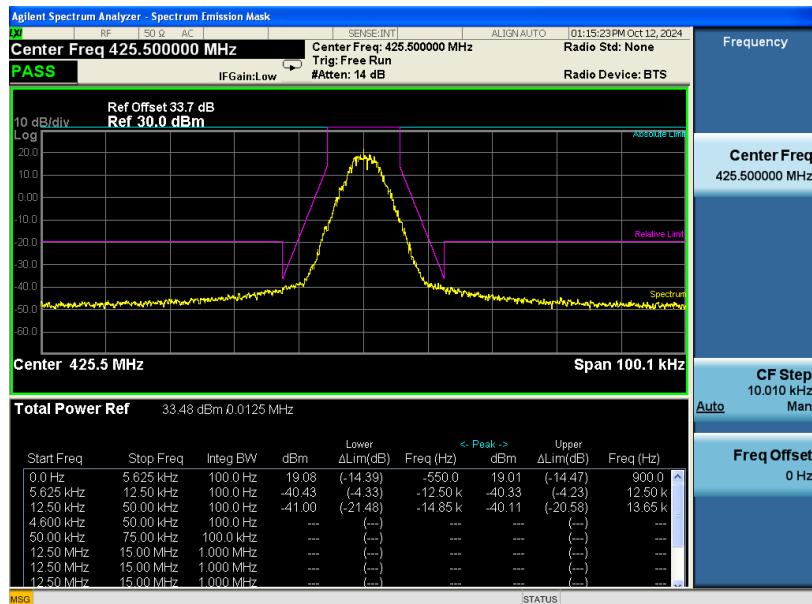


Emission Masks

UL_DMR_MCH_Pre-AGC



UL_DMR_MCH_3dB above AGC



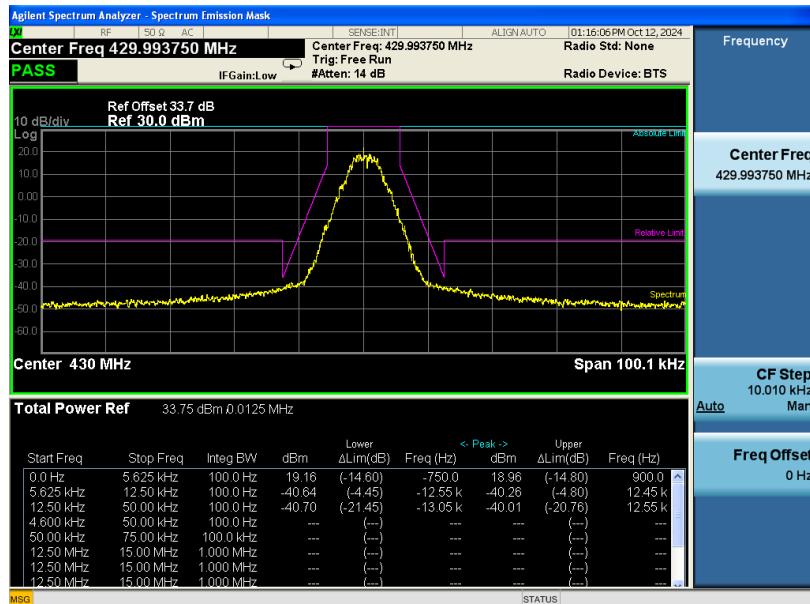
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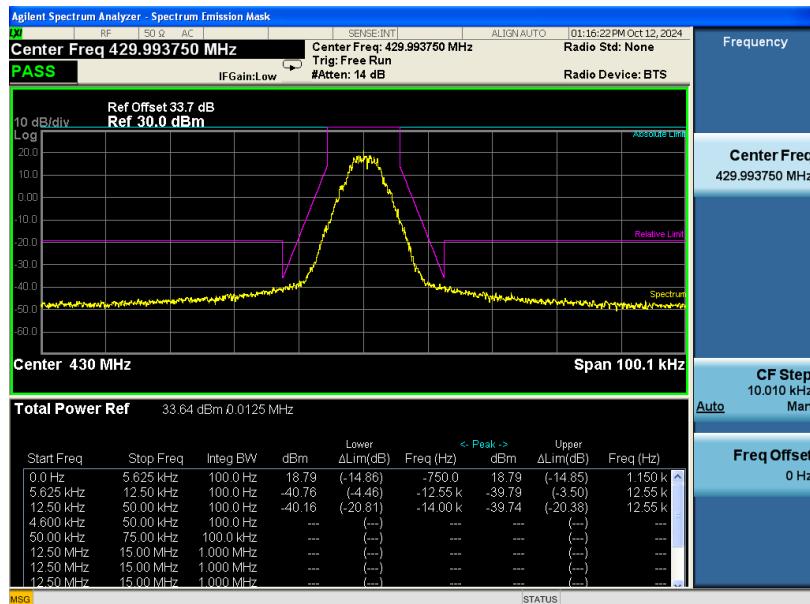


Emission Masks

UL_DMR_HCH_Pre-AGC



UL_DMR_HCH_3dB above AGC



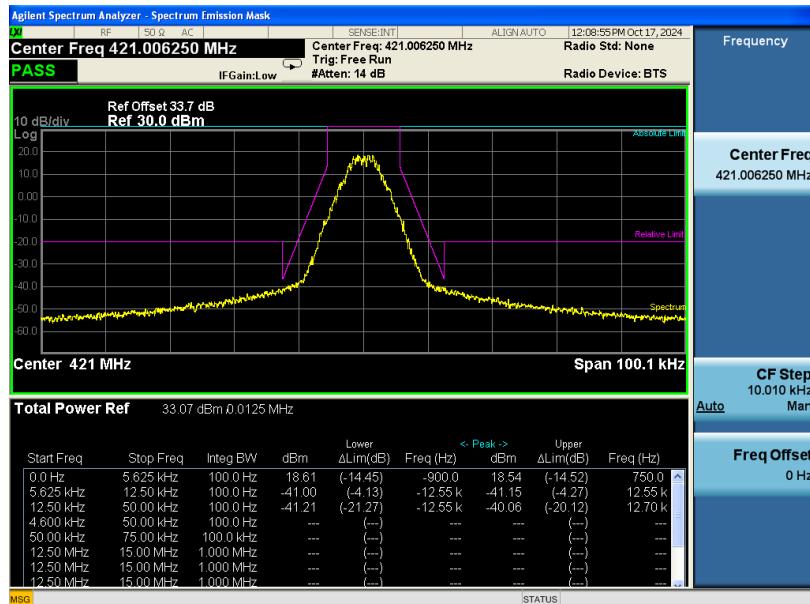
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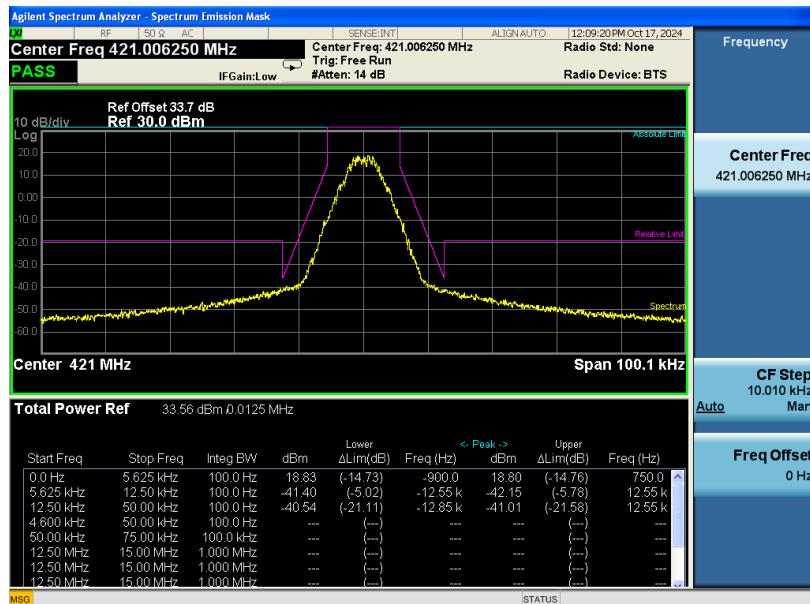


Emission Masks

UL_C4FM_LCH_Pre-AGC



UL_C4FM_LCH_3dB above AGC



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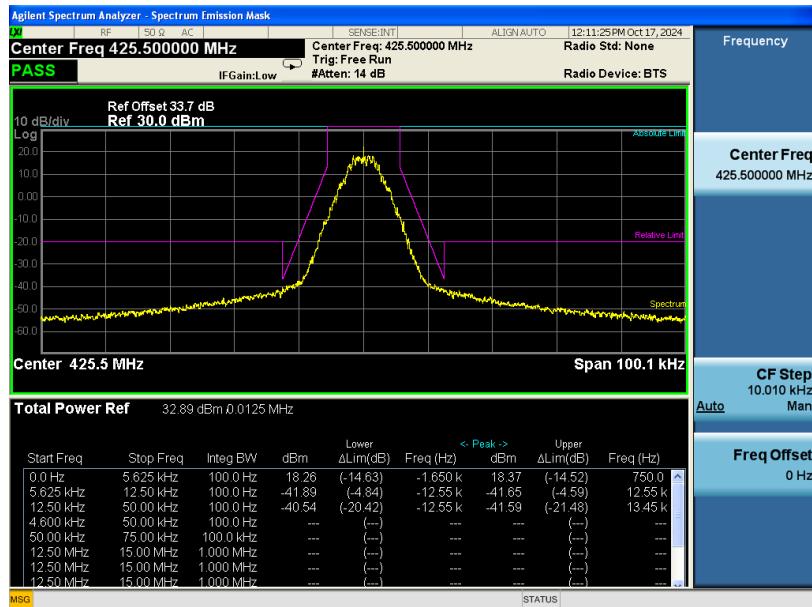
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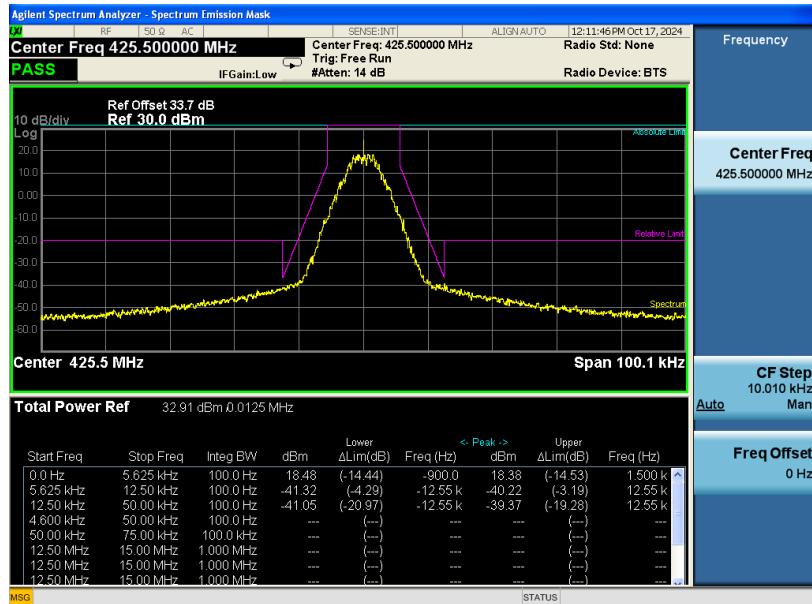
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Emission Masks

UL_C4FM_MCH_Pre-AGC



UL_C4FM_MCH_3dB above AGC



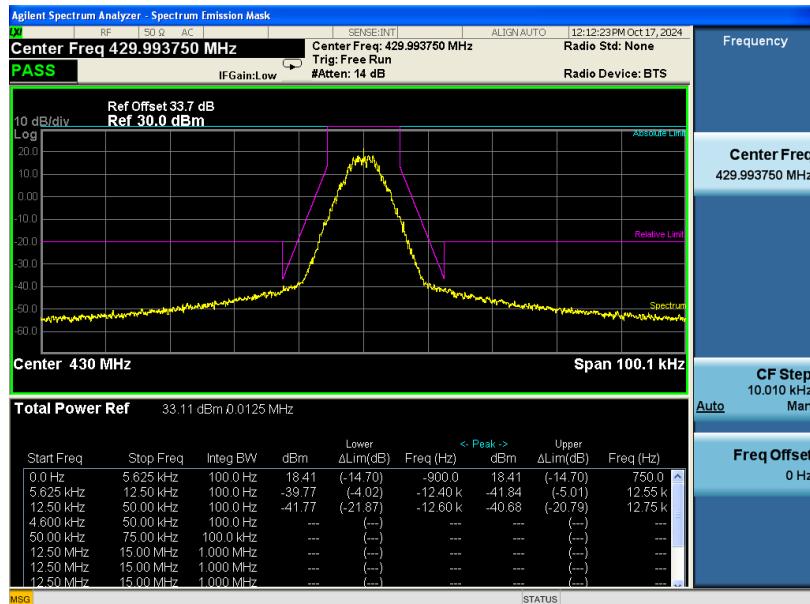
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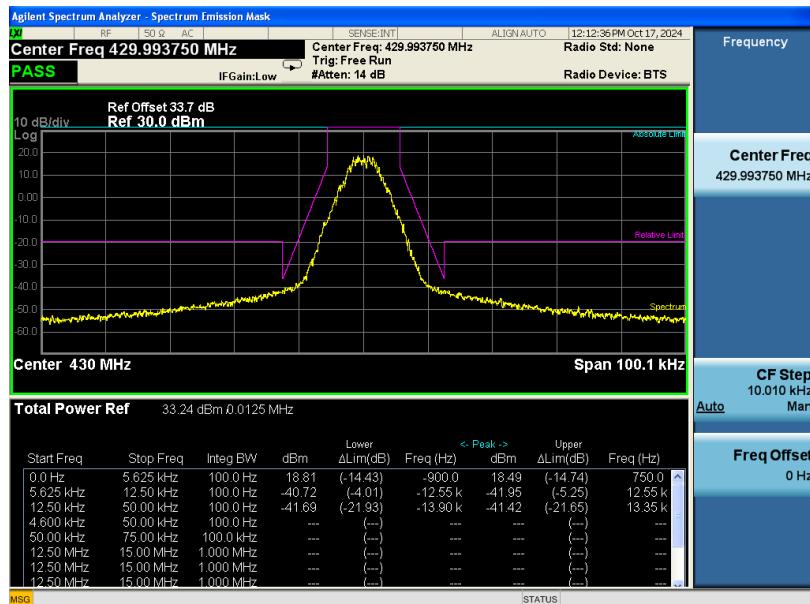


Emission Masks

UL_C4FM_HCH_Pre-AGC



UL_C4FM_HCH_3dB above AGC



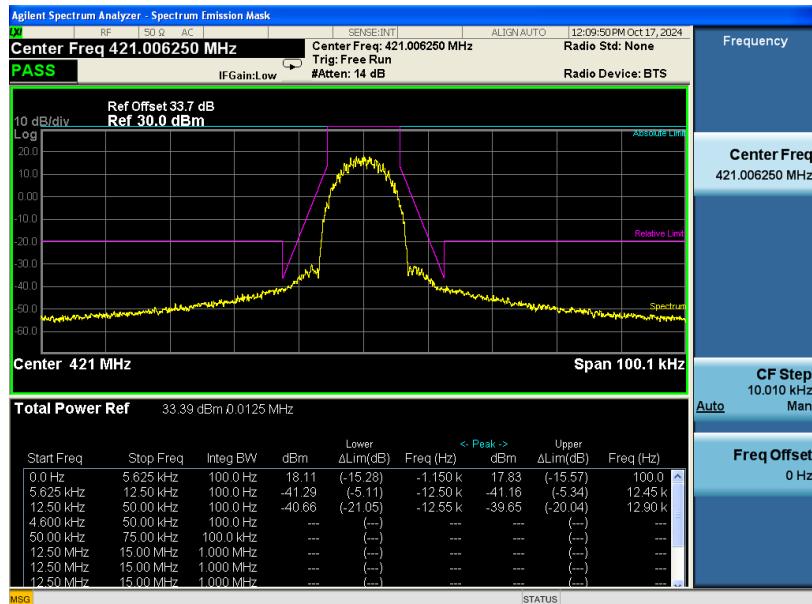
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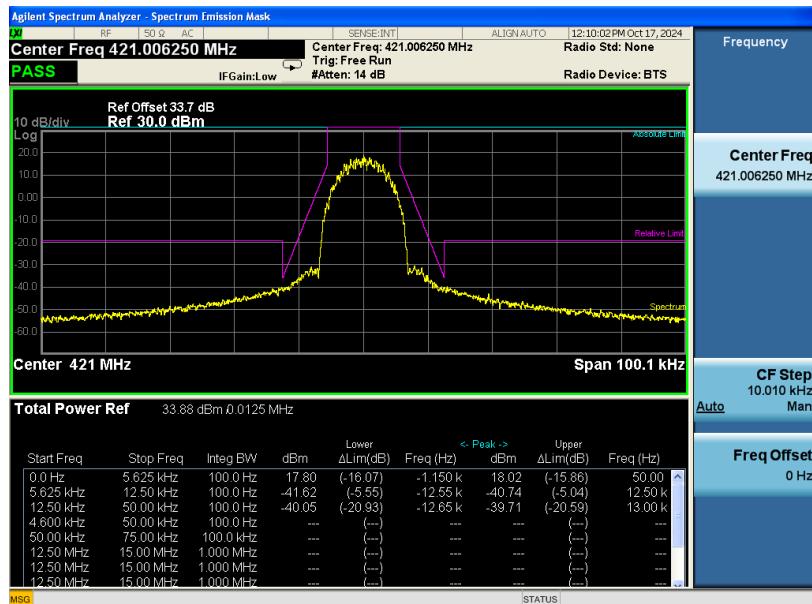


Emission Masks

UL_H-DQPSK_LCH_Pre-AGC



UL_H-DQPSK_LCH_3dB above AGC



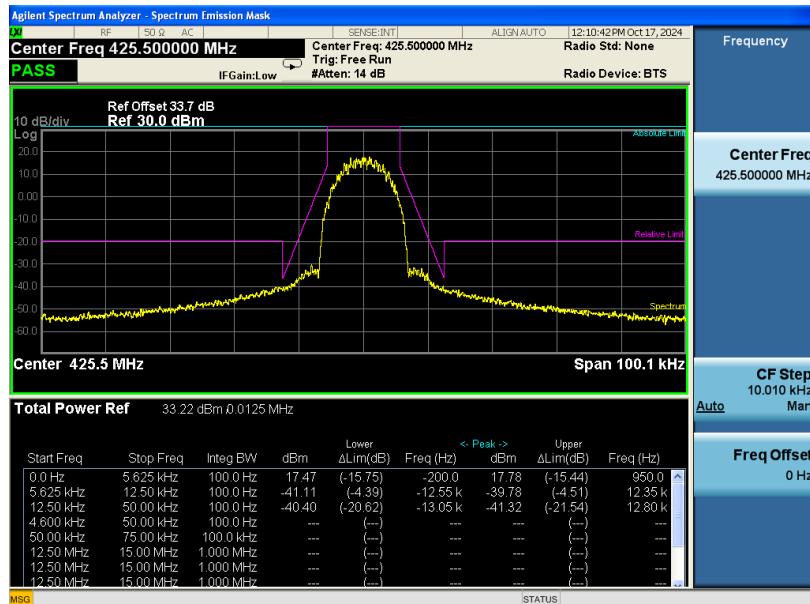
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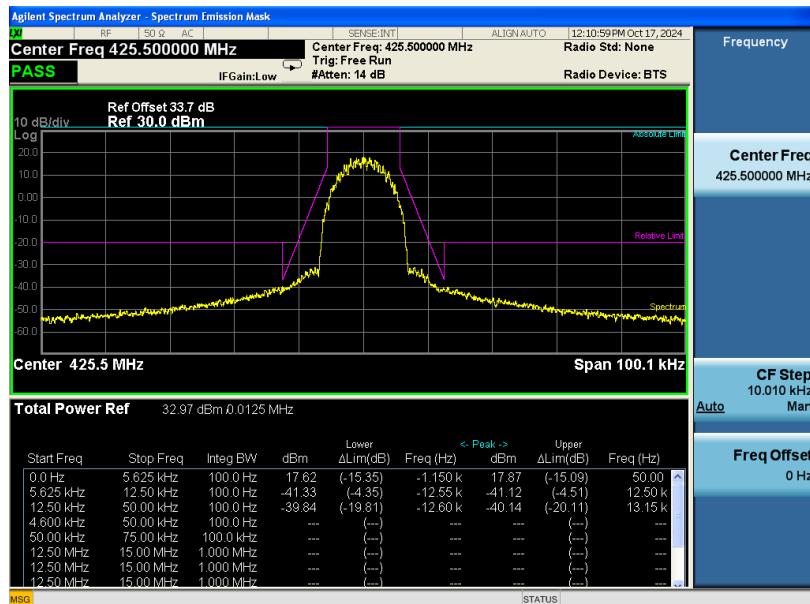


Emission Masks

UL_H-DQPSK_MCH_Pre-AGC



UL_H-DQPSK_MCH_3dB above AGC



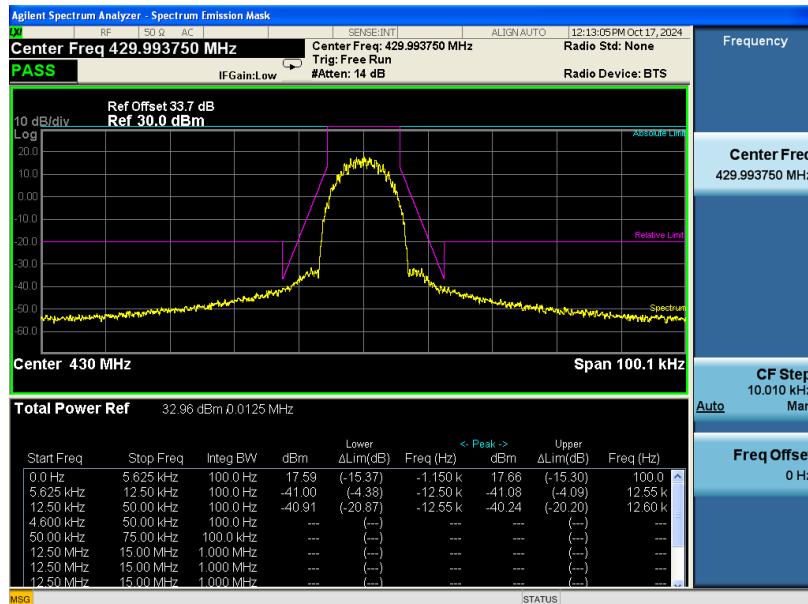
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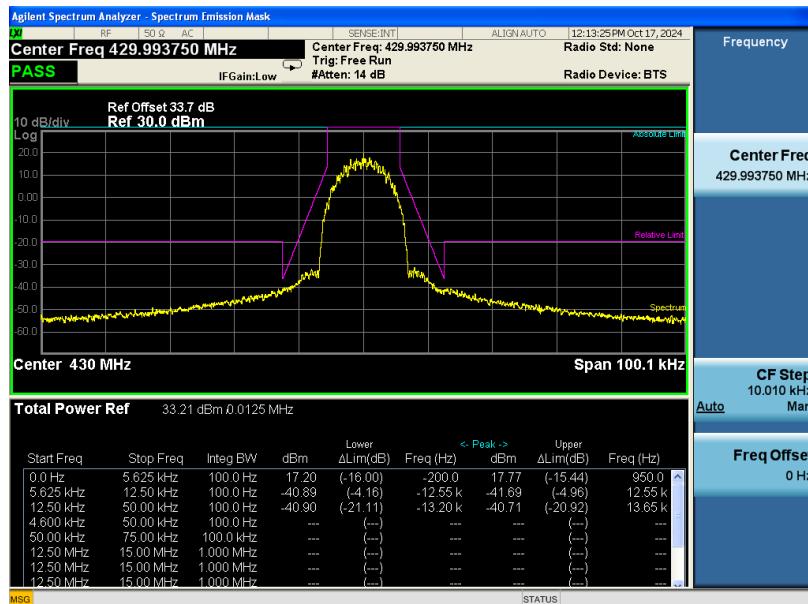


Emission Masks

UL_H-DQPSK_HCH_Pre-AGC



UL_H-DQPSK_HCH_3dB above AGC



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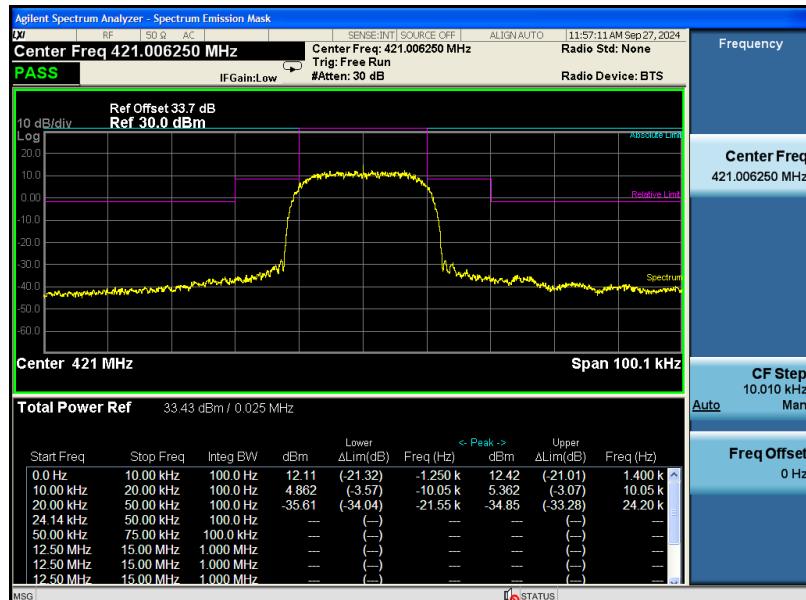


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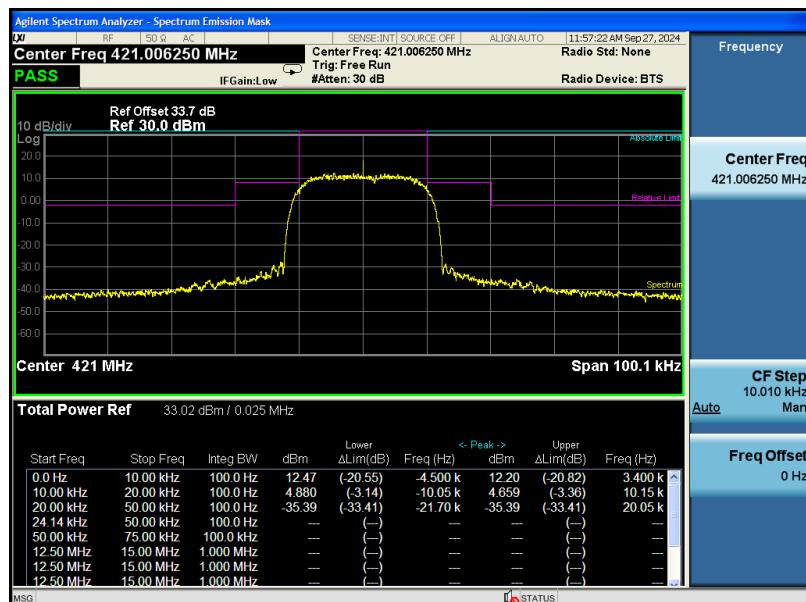
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Emission Masks

UL_TETRA_LCH_Pre-AGC



UL_TETRA_LCH_3dB above AGC



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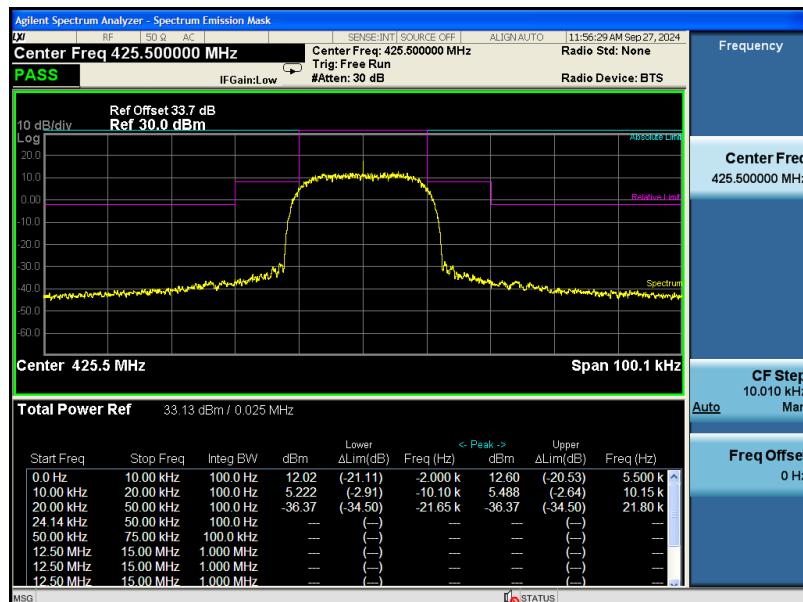
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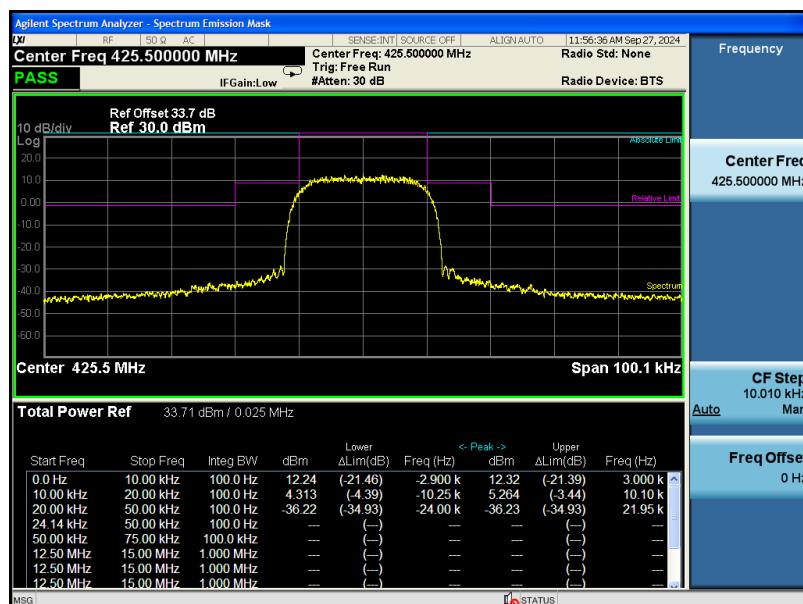
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Emission Masks

UL_TETRA_MCH_Pre-AGC



UL_TETRA_MCH_3dB above AGC



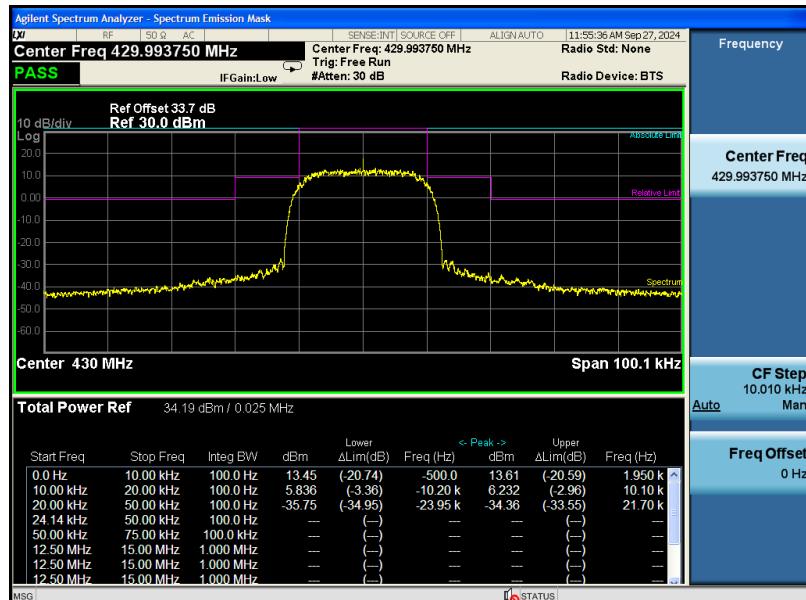
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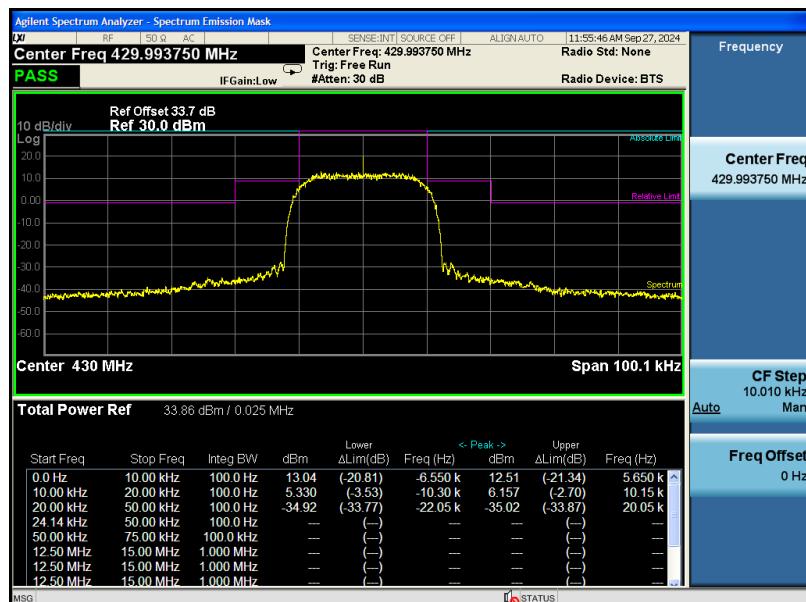


Emission Masks

UL_TETRA_HCH_Pre-AGC



UL_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
UL	5.26		PASS

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	429	6.25	Pre-AGC	-14.26	0.97
			3dB above AGC	-15.48	-0.25
		12.5	Pre-AGC	-14.54	0.69
			3dB above AGC	-14.32	0.91
		25	Pre-AGC	-14.19	1.04
			3dB above AGC	-13.89	1.34
UL	422.1	6.25	Pre-AGC	-21.78	-6.55
			3dB above AGC	-22.29	-7.06
		12.5	Pre-AGC	-20.95	-5.72
			3dB above AGC	-22.10	-6.87
		25	Pre-AGC	-21.43	-6.20
			3dB above AGC	-21.05	-5.82

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 $1.34/10\text{kHz} + 0\text{dBi} - 2.15\text{dB} = -0.80\text{dBm}$, the applicant must use good engineering practice to make sure that the ERP of intermodulation products should not exceed -30dBm in 10kHz measurement bandwidth.

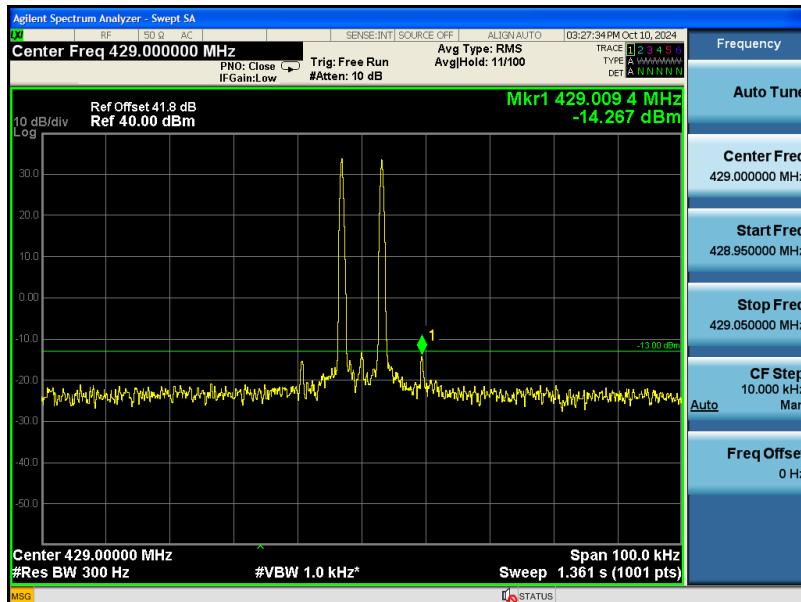


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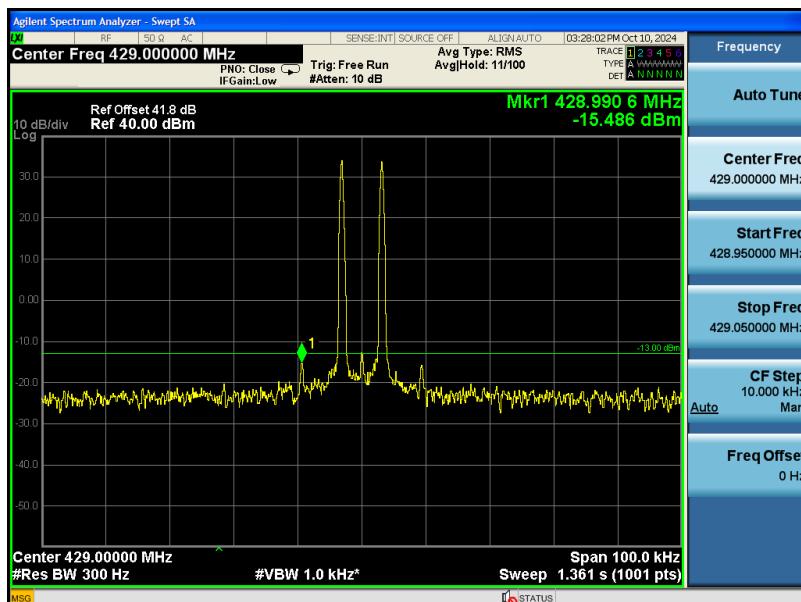
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Intermodulation

DL_6.25kHz_Pre-AGC



DL_6.25kHz_3dB above AGC



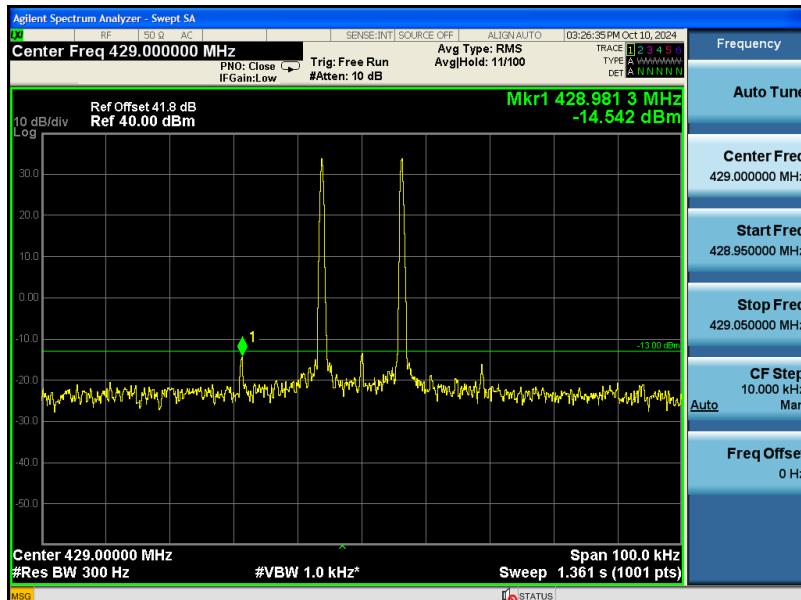
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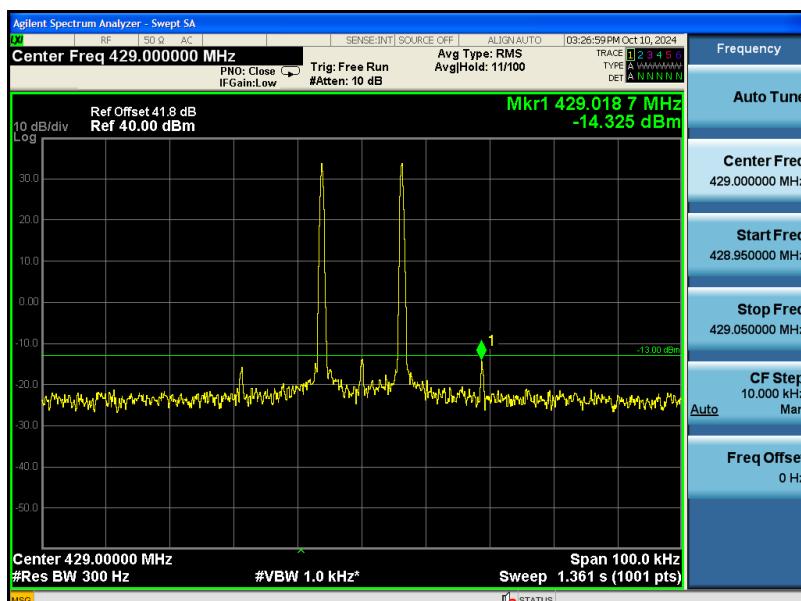


Intermodulation

DL_12.5kHz_Pre-AGC



DL_12.5kHz_3dB above AGC



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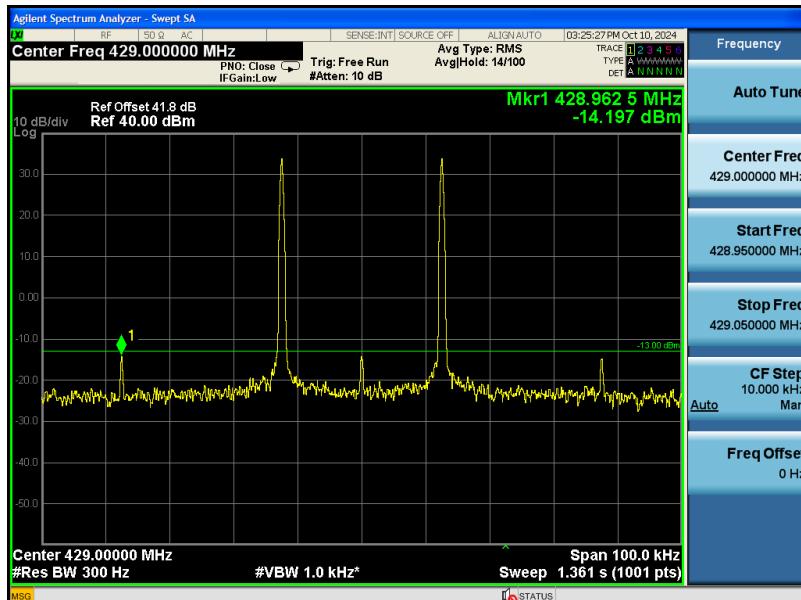
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Intermodulation

DL_25kHz_Pre-AGC



DL_25kHz_3dB above AGC



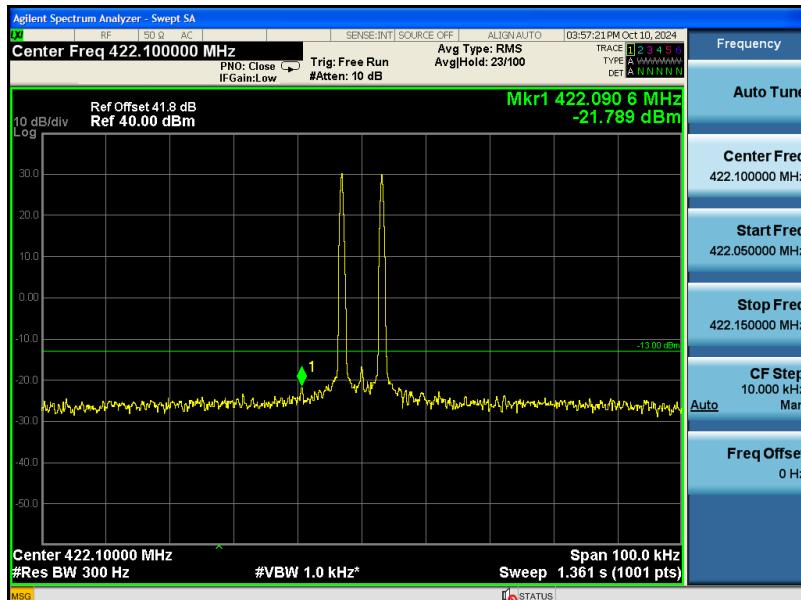
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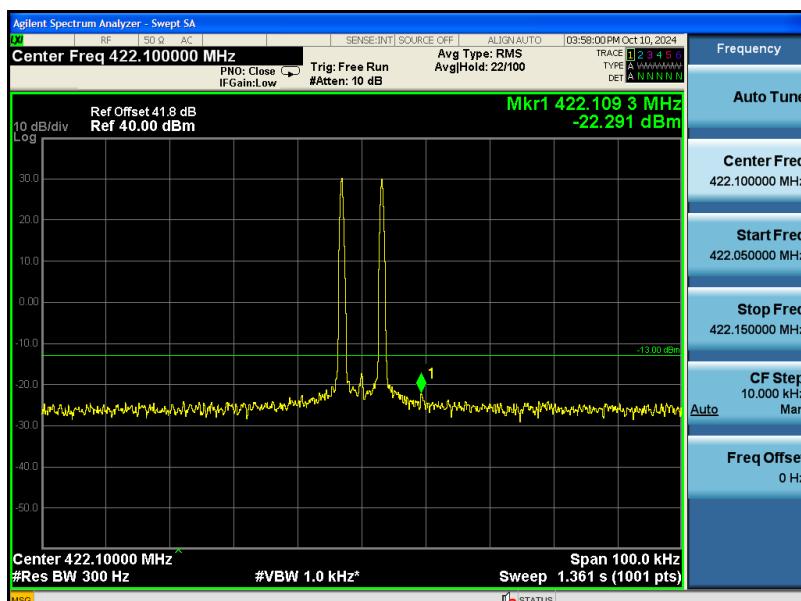


Intermodulation

UL_6.25kHz_Pre-AGC



UL_6.25kHz_3dB above AGC



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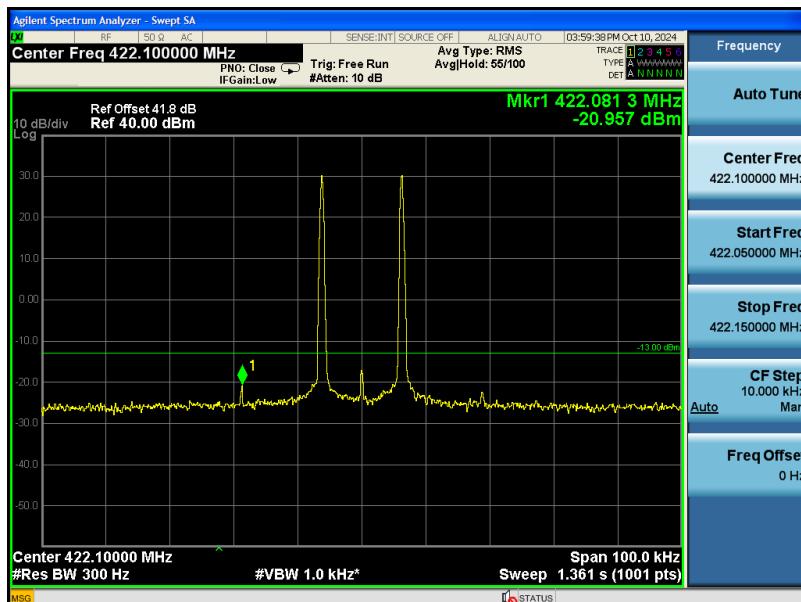
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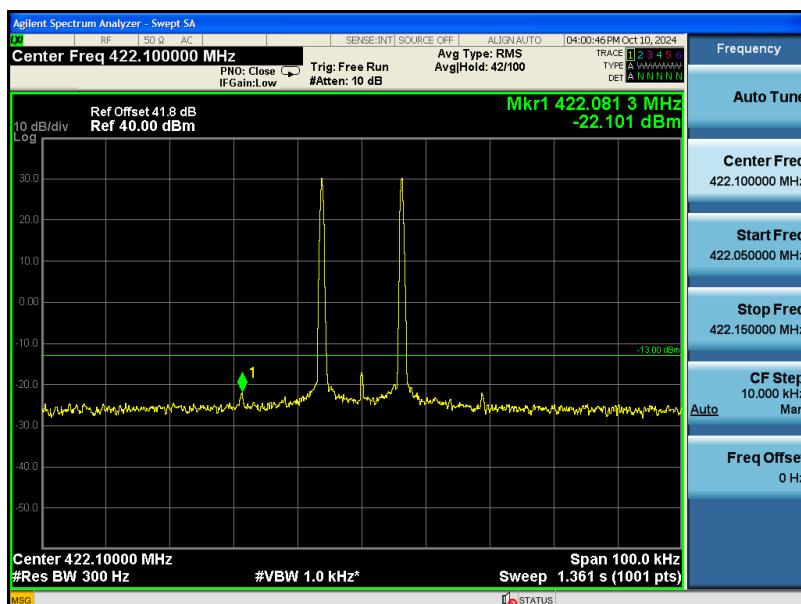
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Intermodulation

UL_12.5kHz_Pre-AGC



UL_12.5kHz_3dB above AGC



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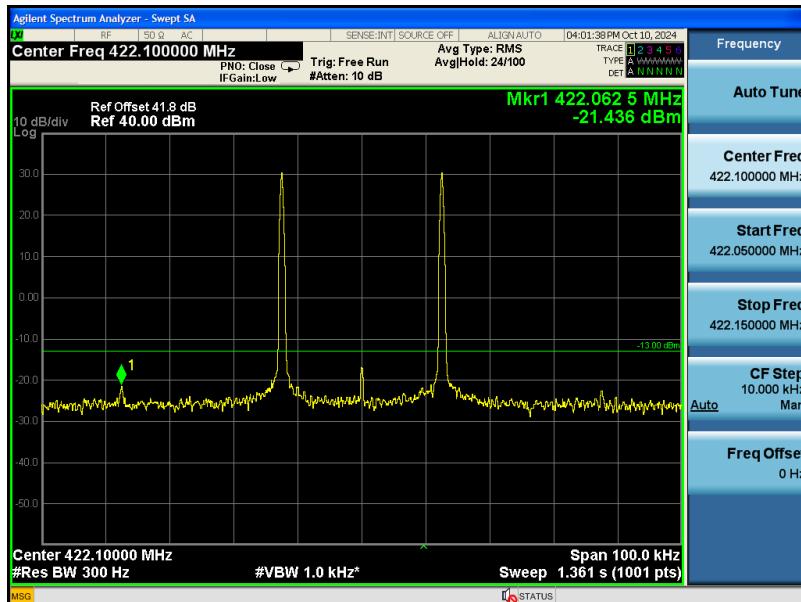
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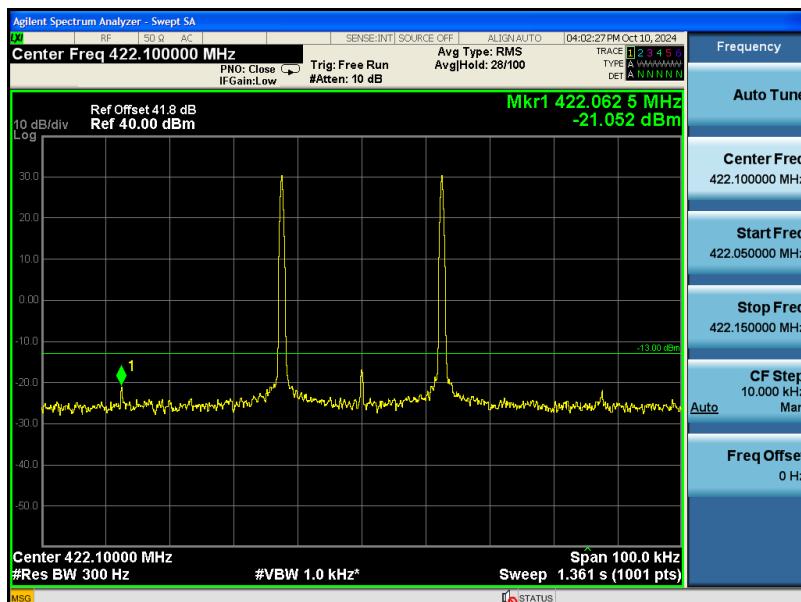
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Intermodulation

UL_25kHz_Pre-AGC



UL_25kHz_3dB above AGC



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7 Conducted Spurious emissions

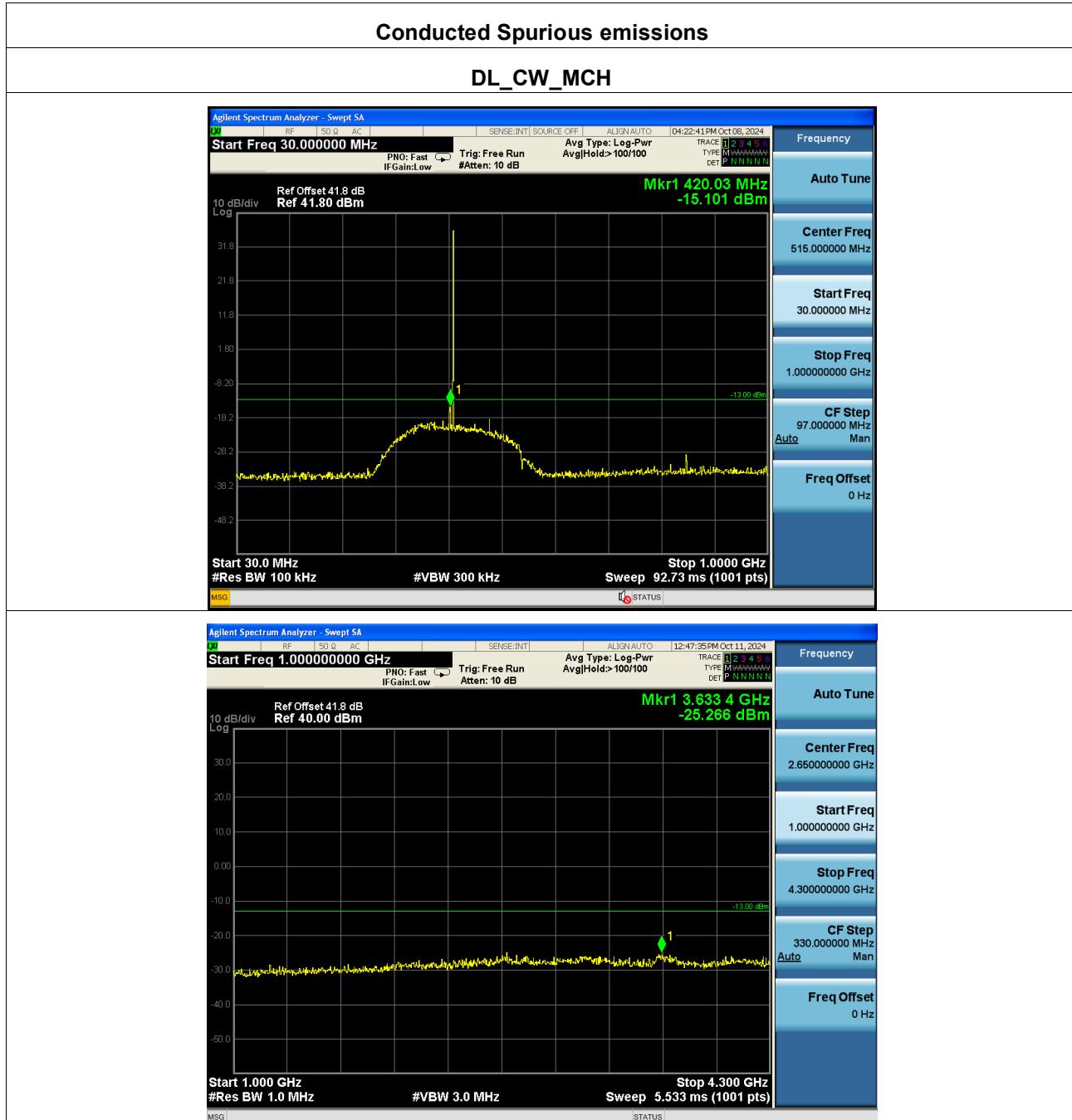
Conducted Spurious emissions						
Test path	Test signal	Test channel	Frequency range (MHz)	Worst test level (dBm)	Limit (dBm)	Verdict
DL	CW	MCH	0.09-30	-40.67	≤-13	PASS
			30-1000	-15.10	≤-13	PASS
			1000-4300	-25.26	≤-13	PASS
UL	CW	MCH	0.09-30	-42.02	≤-13	PASS
			30-1000	-19.19	≤-13	PASS
			1000-4300	-24.94	≤-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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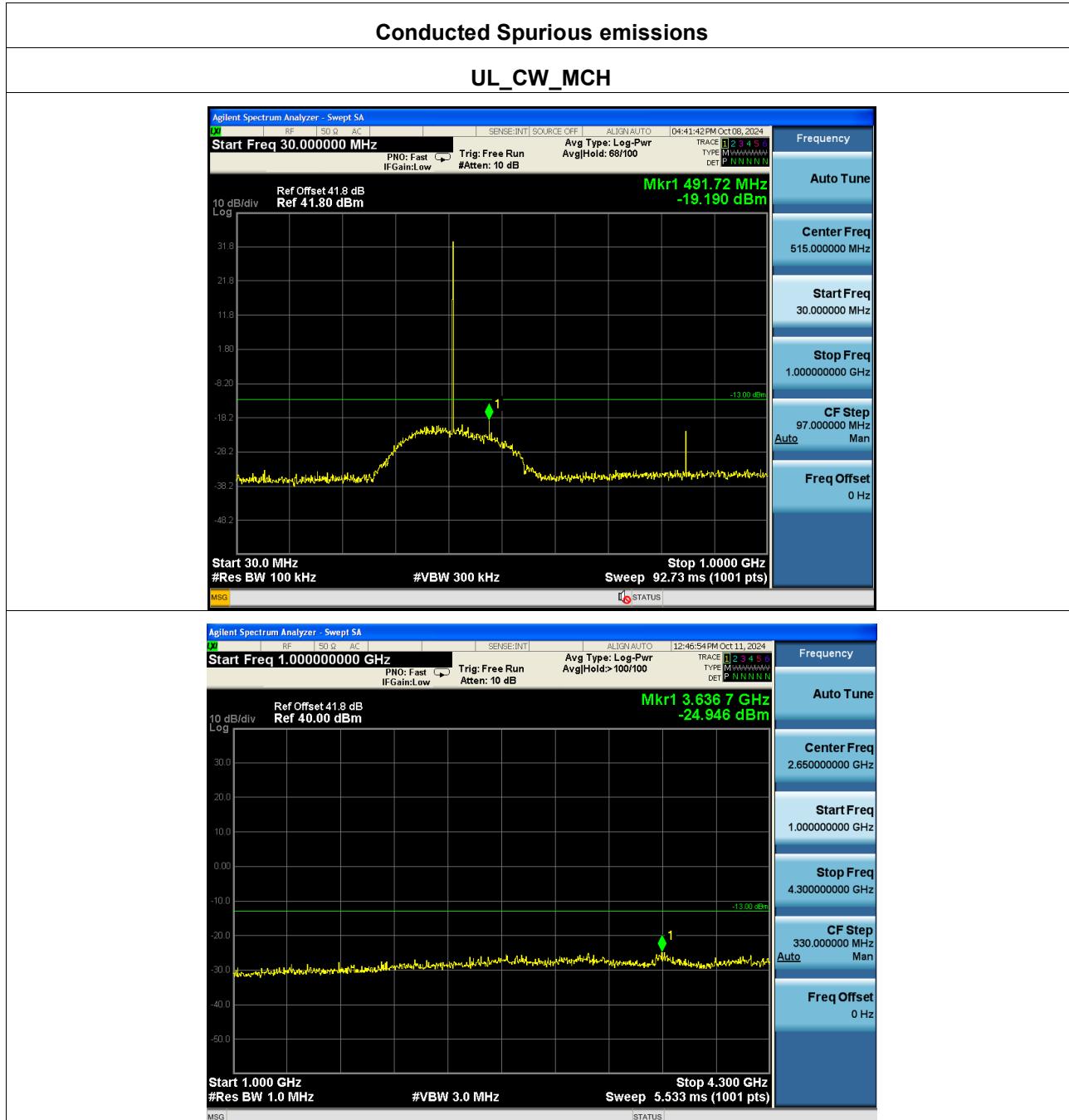
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8 Noise

Noise within the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	421-430	-22.19
UL	421-430	-22.54
Noise outside of the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	0.009-30	-51.12
	30-420	-25.14
	431-4311	-22.65
UL	0.009-30	-50.99
	30-420	-24.36
	431-4311	-23.26

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 -22.19/10kHz+ 0dBi- 2.15dB= -24.34dBm, the applicant must use good engineering practice to make sure that the ERP of noise within the passband should not exceed -43dBm in 10kHz measurement bandwidth.
3. The ERP of worst noise outside of the passband is -22.65/10kHz+ 0dBi- 2.15dB= -24.80dBm, 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.

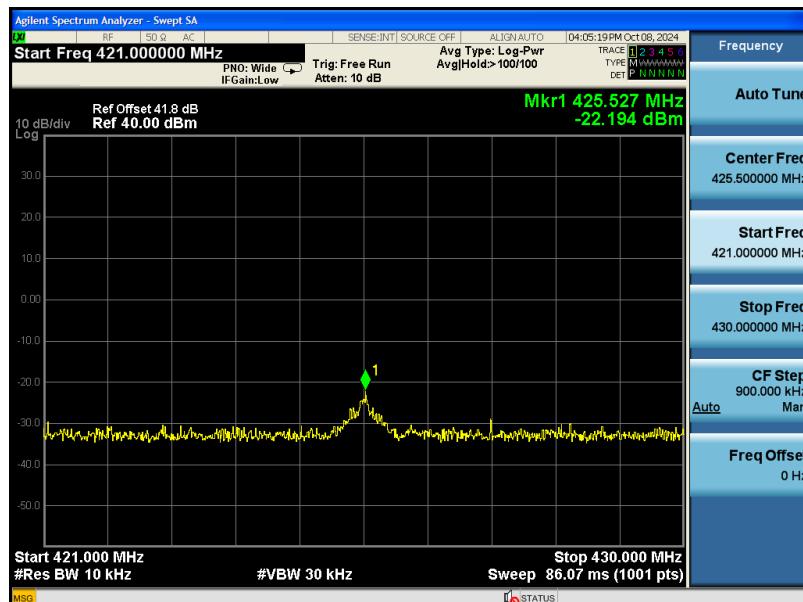


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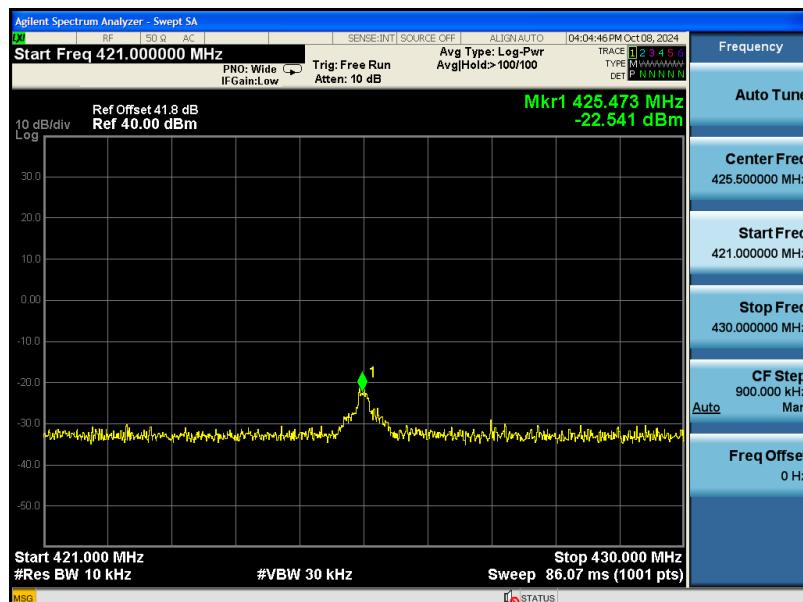
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Noise within the passband

DL



UL



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Noise outside the passband

DL



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Noise outside the passband

UL



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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	4.1	0.010	PASS
			TN	VH	4.3	0.010	PASS
	DMR	MCH	TN	VL	3.1	0.007	PASS
			TN	VH	2.5	0.006	PASS
	C4FM	MCH	TN	VL	3.2	0.008	PASS
			TN	VH	2.5	0.006	PASS
	H-DQPSK	MCH	TN	VL	2.4	0.006	PASS
			TN	VH	2.2	0.005	PASS
	TETRA	MCH	TN	VL	2.5	0.006	PASS
			TN	VH	3.4	0.008	PASS
UL	FM	MCH	TN	VL	2.9	0.007	PASS
			TN	VH	4.2	0.010	PASS
	DMR	MCH	TN	VL	2.9	0.007	PASS
			TN	VH	2.3	0.005	PASS
	C4FM	MCH	TN	VL	4.2	0.010	PASS
			TN	VH	4.0	0.009	PASS
	H-DQPSK	MCH	TN	VL	2.4	0.006	PASS
			TN	VH	2.0	0.005	PASS
	TETRA	MCH	TN	VL	1.7	0.004	PASS
			TN	VH	4.2	0.010	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	3.0	0.007	PASS
			VN	+40	3.7	0.009	PASS
			VN	+30	3.2	0.008	PASS
			VN	+20	4.3	0.010	PASS
			VN	+10	1.4	0.003	PASS
			VN	0	2.5	0.006	PASS
			VN	-10	1.2	0.003	PASS
			VN	-20	1.5	0.004	PASS
			VN	-30	4.5	0.011	PASS
DL	MDR	MCH	VN	+50	2.8	0.007	PASS
			VN	+40	2.9	0.007	PASS
			VN	+30	2.3	0.005	PASS
			VN	+20	4.0	0.009	PASS
			VN	+10	2.6	0.006	PASS
			VN	0	1.8	0.004	PASS
			VN	-10	3.2	0.008	PASS
			VN	-20	3.1	0.007	PASS
			VN	-30	1.8	0.004	PASS
C4FM	MCH	MCH	VN	+50	2.6	0.006	PASS
			VN	+40	4.5	0.011	PASS
			VN	+30	2.8	0.007	PASS
			VN	+20	1.4	0.003	PASS
			VN	+10	2.6	0.006	PASS
			VN	0	2.7	0.006	PASS
			VN	-10	4.3	0.010	PASS
			VN	-20	2.9	0.007	PASS
			VN	-30	2.3	0.005	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	2.7	0.006	PASS
			VN	+40	2.1	0.005	PASS
			VN	+30	3.6	0.008	PASS
			VN	+20	1.4	0.003	PASS
			VN	+10	2.4	0.006	PASS
			VN	0	4.0	0.009	PASS
			VN	-10	3.8	0.009	PASS
			VN	-20	2.0	0.005	PASS
			VN	-30	1.6	0.004	PASS
			VN	+50	4.3	0.010	PASS
UL	TRTRA	MCH	VN	+40	3.8	0.009	PASS
			VN	+30	1.5	0.004	PASS
			VN	+20	2.3	0.005	PASS
			VN	+10	4.1	0.010	PASS
			VN	0	2.2	0.005	PASS
			VN	-10	2.7	0.006	PASS
			VN	-20	2.9	0.007	PASS
			VN	-30	3.6	0.008	PASS
			VN	+50	2.1	0.005	PASS
			VN	+40	3.9	0.009	PASS
UL	FM	MCH	VN	+30	4.1	0.010	PASS
			VN	+20	3.1	0.007	PASS
			VN	+10	3.9	0.009	PASS
			VN	0	3.2	0.008	PASS
			VN	-10	2.2	0.005	PASS
			VN	-20	3.4	0.008	PASS
			VN	-30	2.2	0.005	PASS

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Frequency stability vs temperature							
Test Path	Test Signal	Test Channel	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
UL	DMR	MCH	VN	+50	3.3	0.008	PASS
			VN	+40	2.3	0.005	PASS
			VN	+30	1.9	0.004	PASS
			VN	+20	3.1	0.007	PASS
			VN	+10	3.1	0.007	PASS
			VN	0	1.7	0.004	PASS
			VN	-10	3.5	0.008	PASS
			VN	-20	4.5	0.011	PASS
			VN	-30	3.0	0.007	PASS
UL	C4FM	MCH	VN	+50	3.8	0.009	PASS
			VN	+40	3.9	0.009	PASS
			VN	+30	2.8	0.007	PASS
			VN	+20	1.4	0.003	PASS
			VN	+10	2.4	0.006	PASS
			VN	0	1.6	0.004	PASS
			VN	-10	2.7	0.006	PASS
			VN	-20	1.9	0.004	PASS
			VN	-30	1.3	0.003	PASS
UL	D-HQPSK	MCH	VN	+50	2.7	0.006	PASS
			VN	+40	3.3	0.008	PASS
			VN	+30	3.5	0.008	PASS
			VN	+20	1.5	0.004	PASS
			VN	+10	1.7	0.004	PASS
			VN	0	1.6	0.004	PASS
			VN	-10	4.0	0.009	PASS
			VN	-20	3.5	0.008	PASS
			VN	-30	1.6	0.004	PASS

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Frequency stability vs temperature							
Test Path	Test Signal	Test Channel	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
UL	TETRA	MCH	VN	+50	1.5	0.004	PASS
			VN	+40	2.1	0.005	PASS
			VN	+30	3.5	0.008	PASS
			VN	+20	3.1	0.007	PASS
			VN	+10	1.2	0.003	PASS
			VN	0	2.8	0.007	PASS
			VN	-10	3.2	0.008	PASS
			VN	-20	1.5	0.004	PASS
			VN	-30	1.5	0.004	PASS



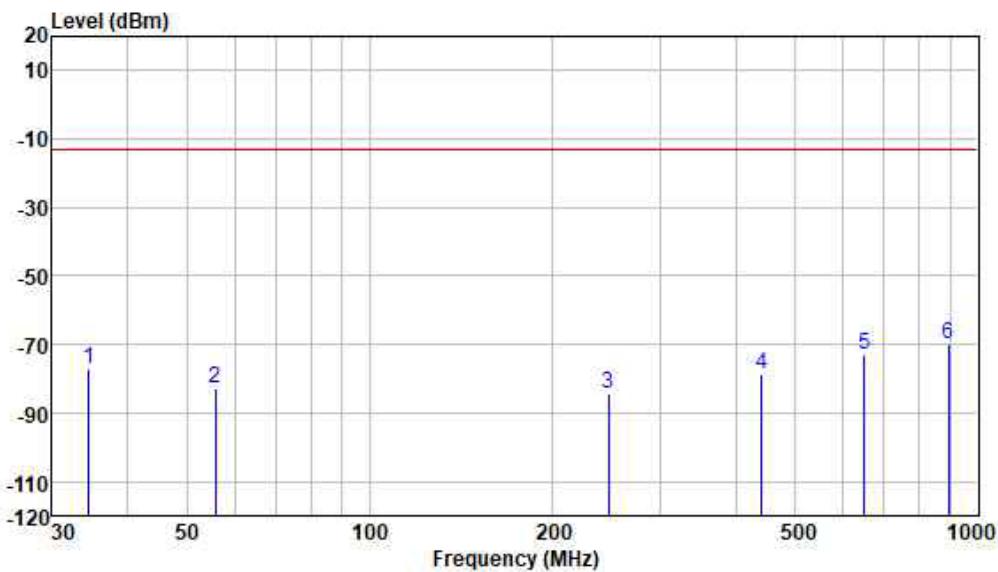
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10 Radiated Spurious emissions

Radiated Spurious emissions

DL_CW_MCH_30MHz-1GHz_Horizontal



Freq	Read	Correction	Limit	Over	Pol/Phase		
	Level	Factor	Level	Line			
	MHz	dBm	dB	dBm	dB		
1	34.52	-79.80	2.91	-76.89	-13.00	-63.89	HORIZONTAL
2	55.61	-80.72	-2.06	-82.78	-13.00	-69.78	HORIZONTAL
3	246.81	-78.43	-5.70	-84.13	-13.00	-71.13	HORIZONTAL
4	440.20	-79.09	0.22	-78.87	-13.00	-65.87	HORIZONTAL
5	649.66	-76.87	3.79	-73.08	-13.00	-60.08	HORIZONTAL
6	893.86	-78.79	9.15	-69.64	-13.00	-56.64	HORIZONTAL

Remark:

The spurious emissions 9kHz to 30MHz and above 18GHz were very low and not displayed in this report.

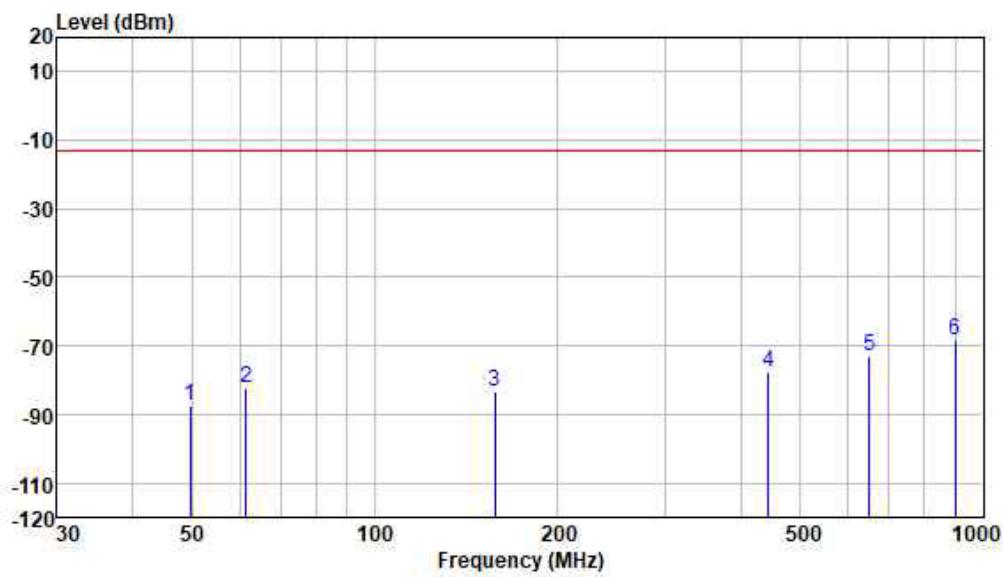


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Radiated Spurious emissions

DL_CW_MCH_30MHz-1GHz_Vertical



Freq	Read	Correction	Limit	Over	Pol/Phase	
	Level	Factor	Level	Line		
	MHz	dBm	dB	dBm	dB	
1	49.71	-80.13	-7.08	-87.21	-13.00	-74.21 VERTICAL
2	61.35	-79.84	-2.67	-82.51	-13.00	-69.51 VERTICAL
3	157.56	-79.47	-3.94	-83.41	-13.00	-70.41 VERTICAL
4	443.29	-79.21	1.41	-77.80	-13.00	-64.80 VERTICAL
5	649.66	-77.58	4.72	-72.86	-13.00	-59.86 VERTICAL
6	900.15	-78.90	10.65	-68.25	-13.00	-55.25 VERTICAL

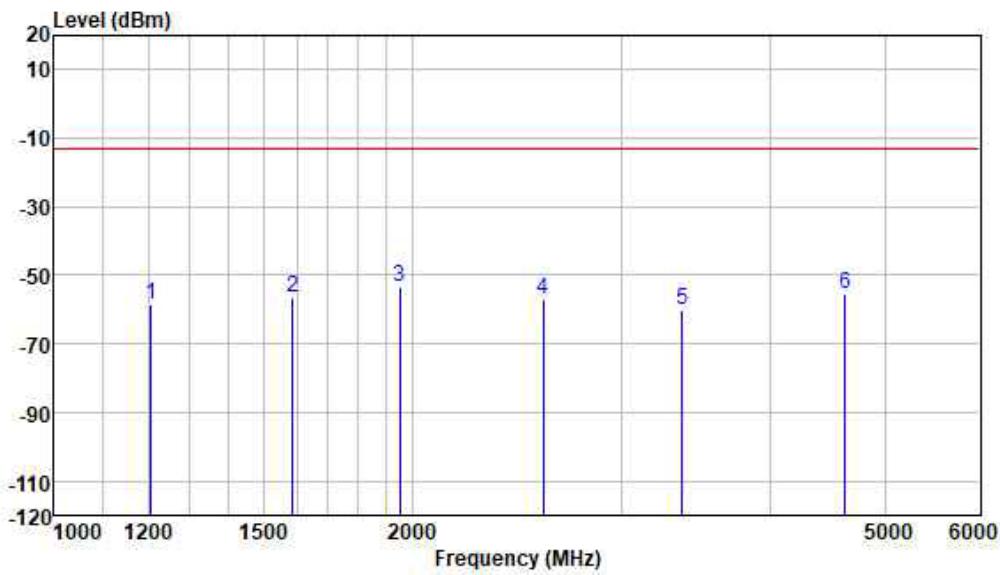
Remark:

The spurious emissions 9kHz to 30MHz and above 18GHz were very low and not displayed in this report.



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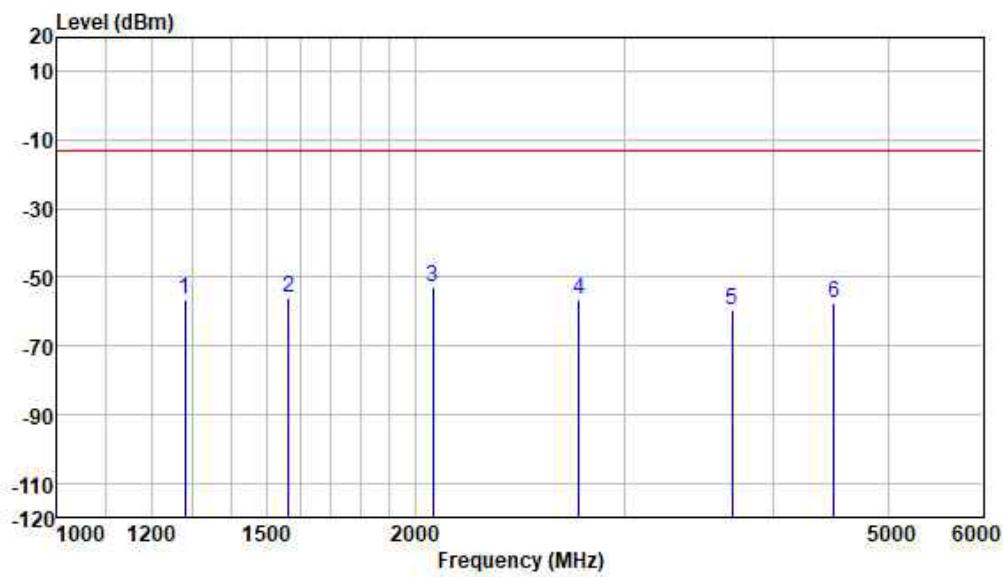
Radiated Spurious emissions**DL_CW_MCH_above 1GHz_Horizontal****Remark:**

The spurious emissions 9kHz to 30MHz and above 18GHz were very low and not displayed in this report.



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Radiated Spurious emissions**DL_CW_MCH_above 1GHz_Vertical**

Freq	Read	Correction	Limit	Over	Pol/Phase	
	Level	Factor	Level	Line		
	MHz	dBm	dB	dBm	dB	
1	1280.52	-60.95	4.43	-56.52	-13.00	-43.52 VERTICAL
2	1565.09	-61.62	5.51	-56.11	-13.00	-43.11 VERTICAL
3	2069.81	-61.93	8.87	-53.06	-13.00	-40.06 VERTICAL
4	2747.12	-61.19	4.53	-56.66	-13.00	-43.66 VERTICAL
5	3692.09	-63.48	3.84	-59.64	-13.00	-46.64 VERTICAL
6	4496.44	-63.52	5.86	-57.66	-13.00	-44.66 VERTICAL

Remark:

The spurious emissions 9kHz to 30MHz and above 18GHz were very low and not displayed in this report.

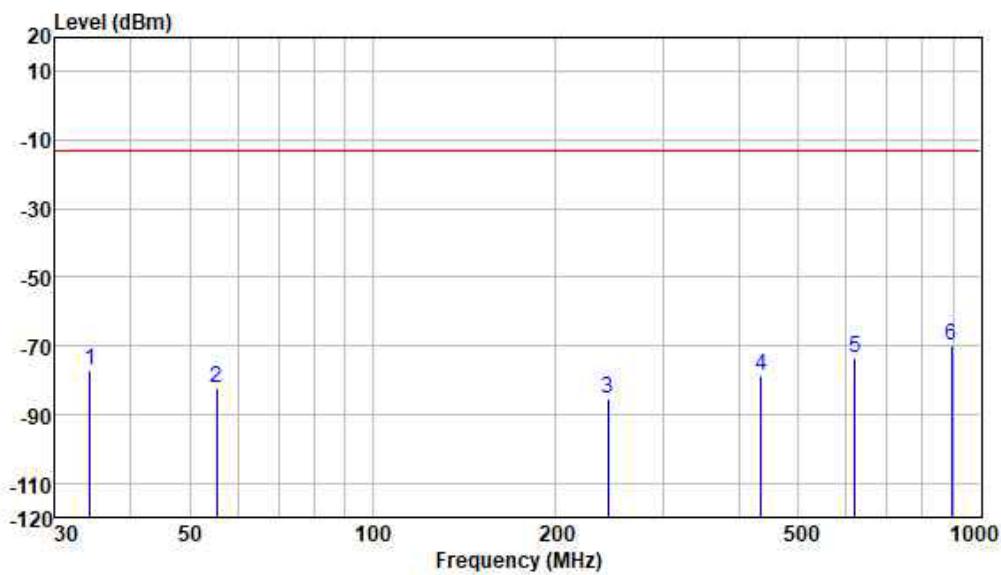


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Radiated Spurious emissions

UL_CW_MCH_30MHz-1GHz_Horizontal



Freq	Read	Correction	Limit	Over	Pol/Phase		
	MHz	dBm	dB	dBm			
1	34.28	-80.12	2.93	-77.19	-13.00	-64.19	HORIZONTAL
2	55.22	-80.13	-1.98	-82.11	-13.00	-69.11	HORIZONTAL
3	243.38	-79.24	-5.95	-85.19	-13.00	-72.19	HORIZONTAL
4	434.07	-78.99	0.21	-78.78	-13.00	-65.78	HORIZONTAL
5	620.71	-77.06	3.35	-73.71	-13.00	-60.71	HORIZONTAL
6	893.86	-78.96	9.15	-69.81	-13.00	-56.81	HORIZONTAL

Remark:

The spurious emissions 9kHz to 30MHz and above 18GHz were very low and not displayed in this report.

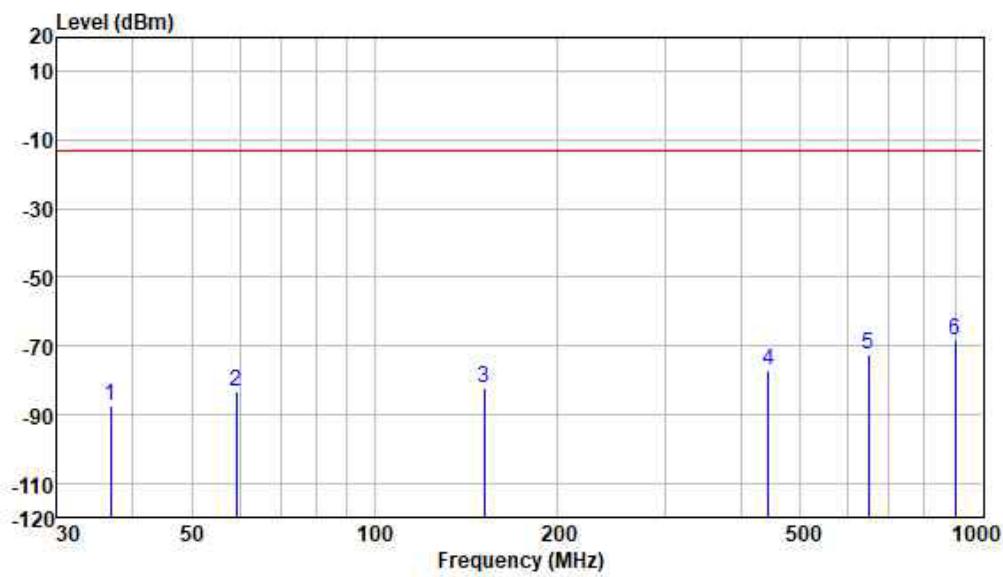


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Radiated Spurious emissions

UL_CW_MCH_30MHz-1GHz_Vertical

**Remark:**

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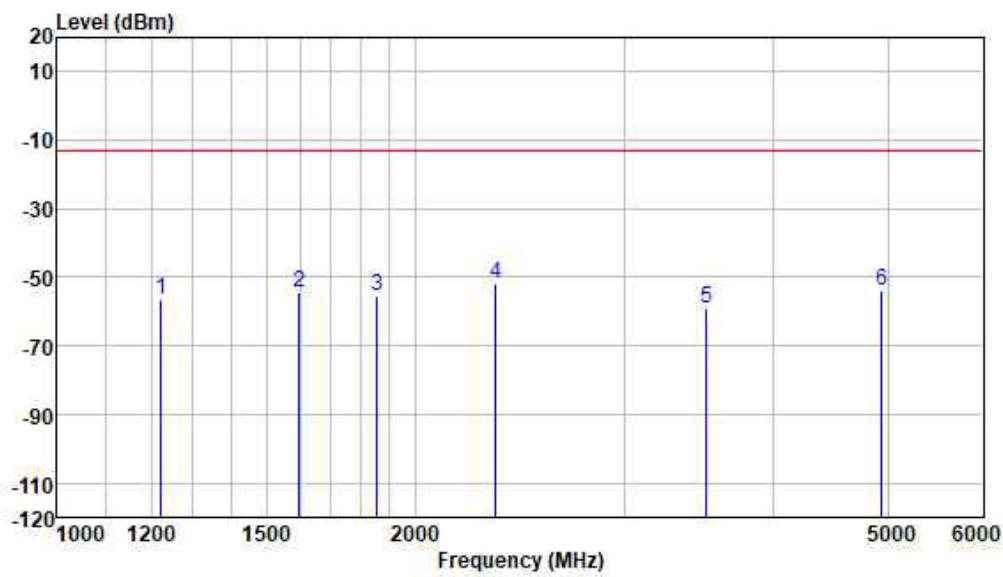


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Radiated Spurious emissions

UL_CW_MCH_above 1GHz_Horizontal



Freq	Read	Correction	Limit	Over	Pol/Phase
	MHz	dBm	dB	dBm	
1	1222.23	-59.66	3.45	-56.21	-13.00 -43.21 HORIZONTAL
2	1596.24	-59.46	5.22	-54.24	-13.00 -41.24 HORIZONTAL
3	1858.83	-61.36	6.14	-55.22	-13.00 -42.22 HORIZONTAL
4	2338.00	-61.51	9.56	-51.95	-13.00 -38.95 HORIZONTAL
5	3511.43	-62.60	3.59	-59.01	-13.00 -46.01 HORIZONTAL
6	4935.52	-63.91	10.27	-53.64	-13.00 -40.64 HORIZONTAL

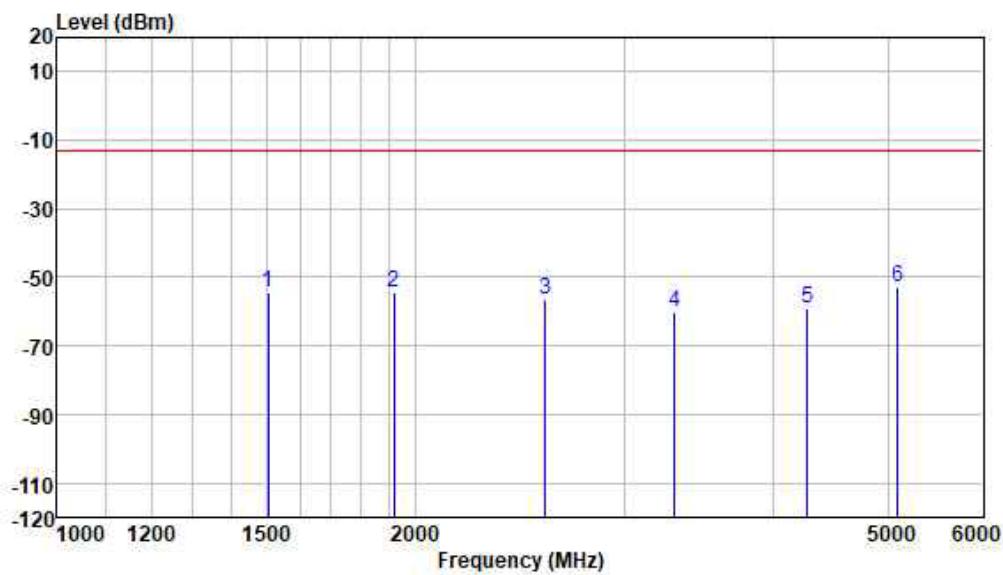
Remark:

The spurious emissions 9kHz to 30MHz and above 18GHz were very low and not displayed in this report.



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Radiated Spurious emissionsUL_CW_MCH_above 1GHz_Vertical

Freq	Read	Correction	Limit	Over	Pol/Phase	
	Level	Factor	Level	Line		
	MHz	dBm	dB	dBm	dB	
1	1504.59	-61.25	6.91	-54.34	-13.00	-41.34 VERTICAL
2	1919.76	-61.86	7.22	-54.64	-13.00	-41.64 VERTICAL
3	2570.90	-62.74	6.08	-56.66	-13.00	-43.66 VERTICAL
4	3303.90	-62.70	2.88	-59.82	-13.00	-46.82 VERTICAL
5	4268.77	-63.28	4.37	-58.91	-13.00	-45.91 VERTICAL
6	5088.17	-64.02	11.07	-52.95	-13.00	-39.95 VERTICAL

Remark:

The spurious emissions 9kHz to 30MHz and above 18GHz were very low and not displayed in this report.

--End of Appendix--

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