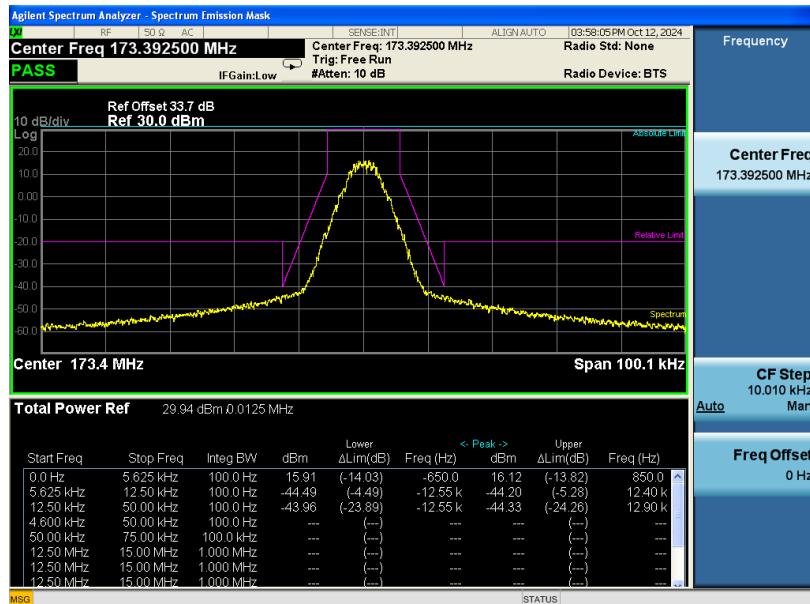
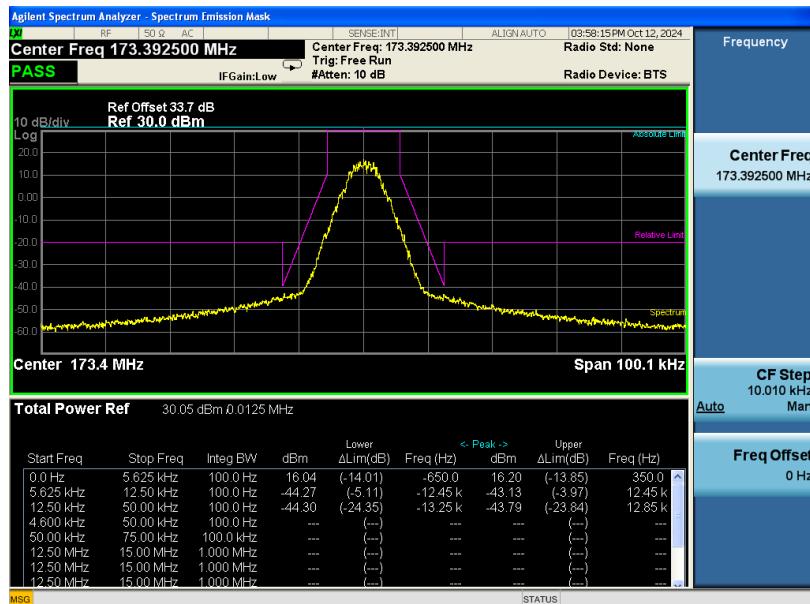


## Emission Masks

## DL\_DMR\_HCH\_Pre-AGC



## DL\_DMR\_HCH\_3dB above AGC



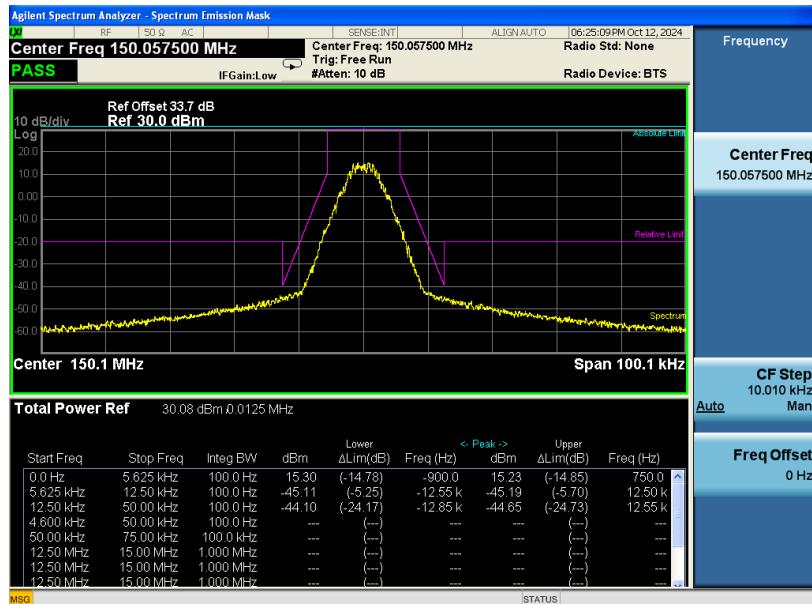
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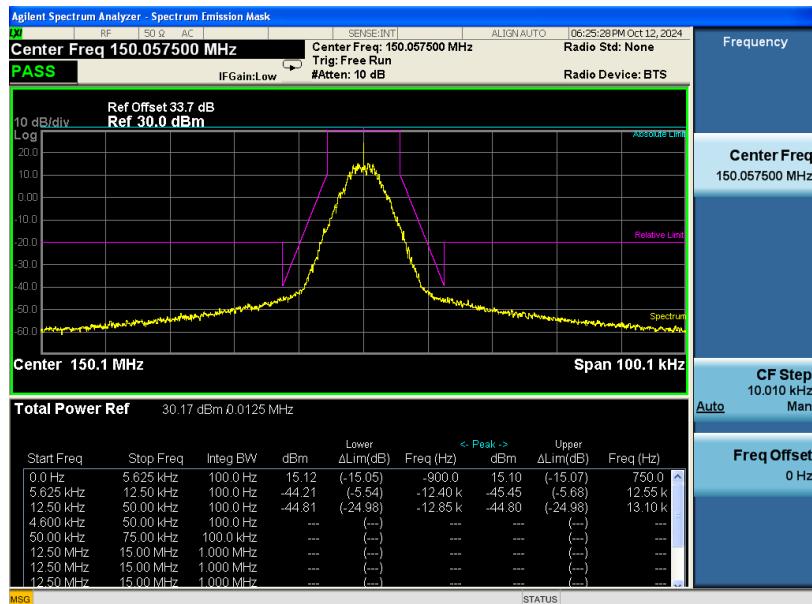


## Emission Masks

## DL\_C4FM\_LCH\_Pre-AGC



## DL\_C4FM\_LCH\_3dB above AGC



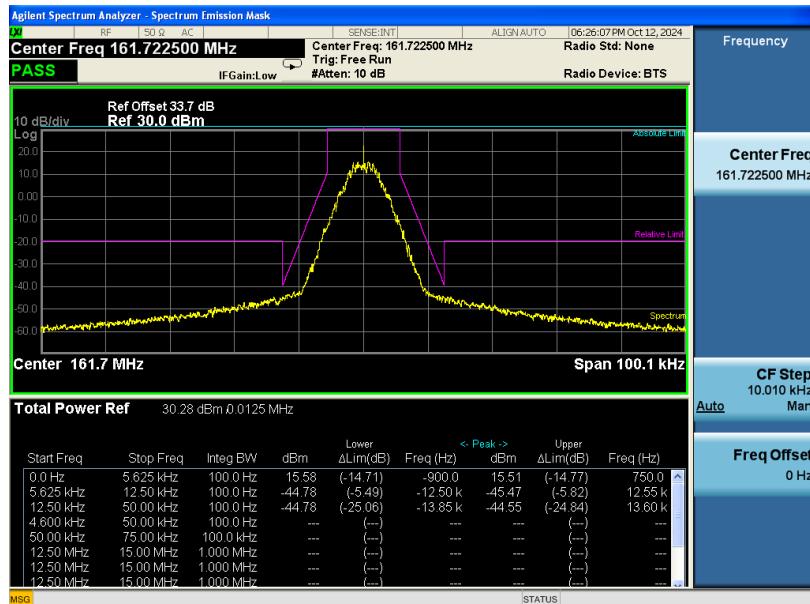
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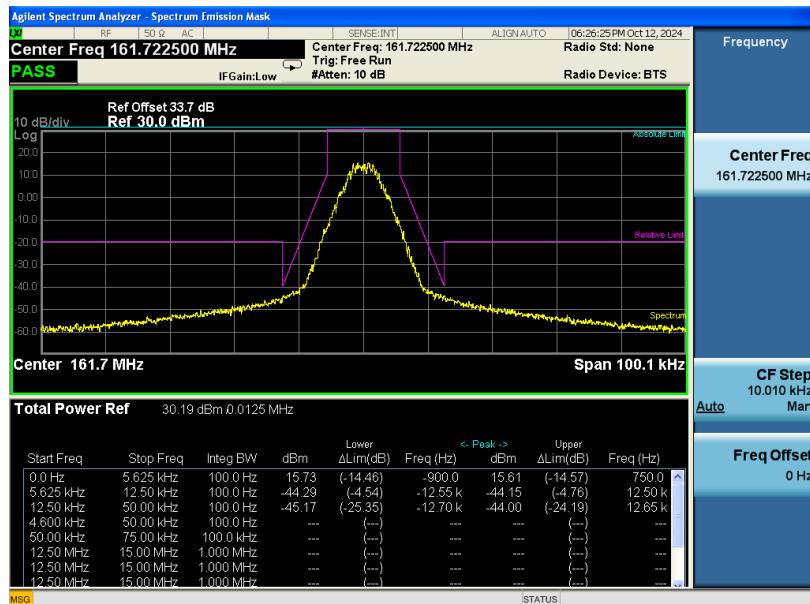


## Emission Masks

## DL\_C4FM\_MCH\_Pre-AGC



## DL\_C4FM\_MCH\_3dB above AGC



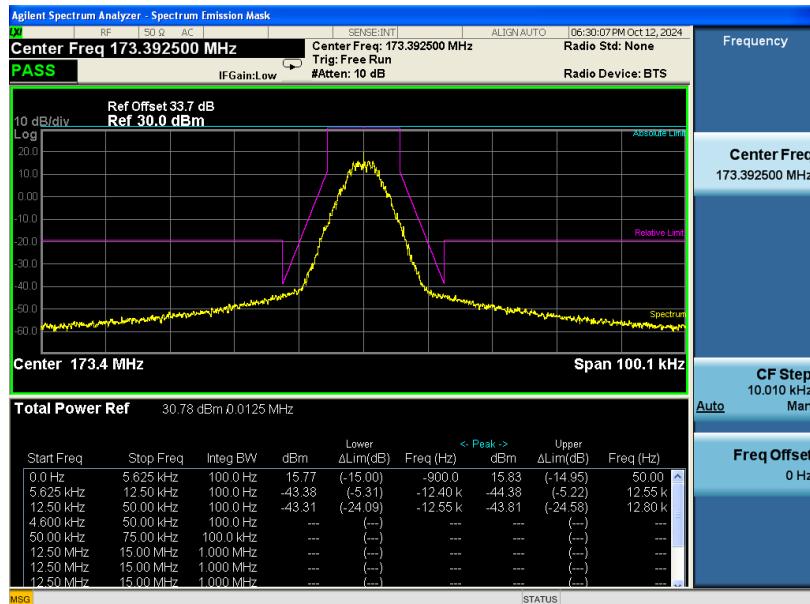
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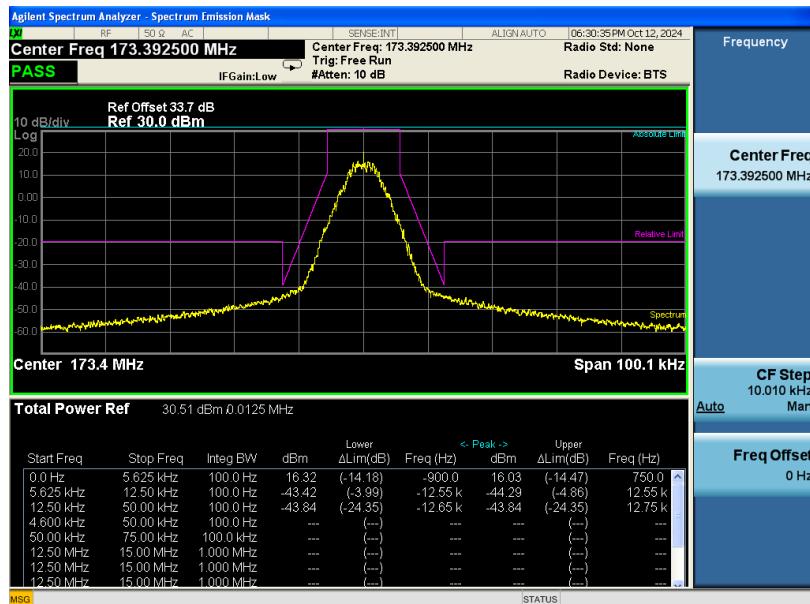


## Emission Masks

## DL\_C4FM\_HCH\_Pre-AGC



## DL\_C4FM\_HCH\_3dB above AGC



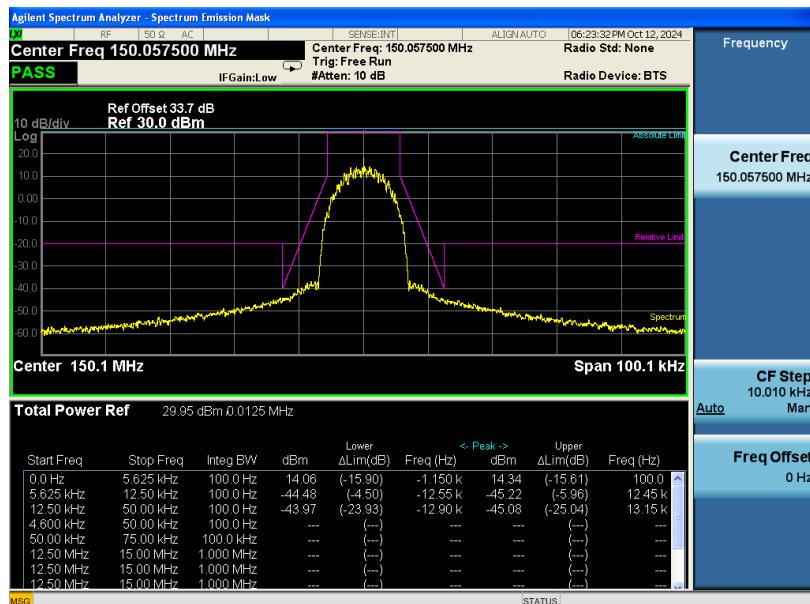
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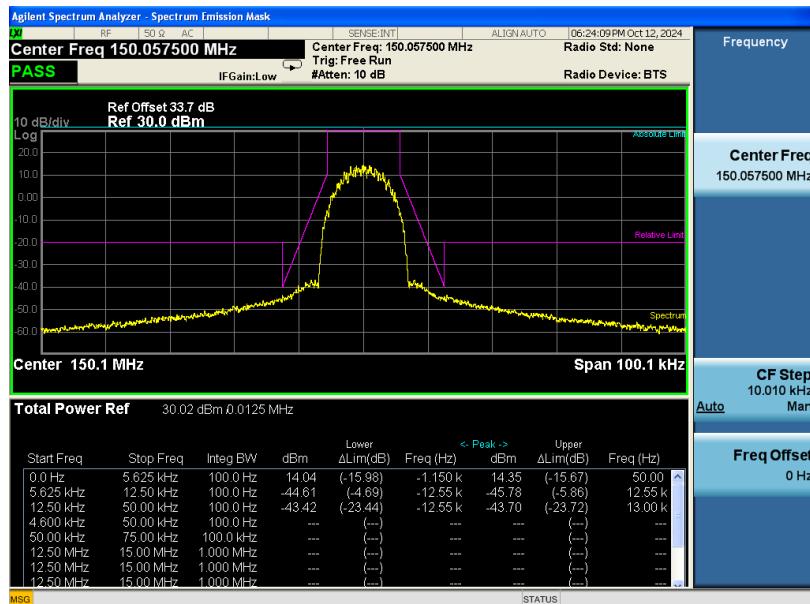


## Emission Masks

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



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



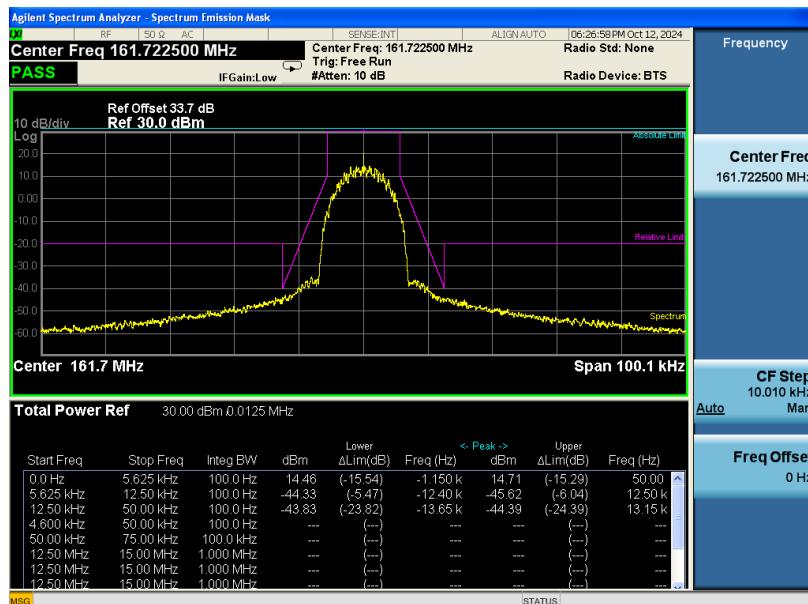
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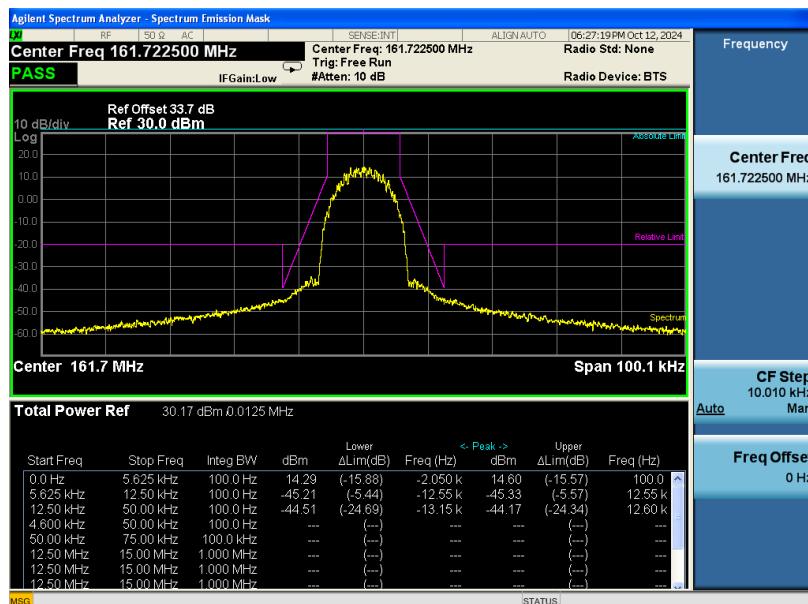


## Emission Masks

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



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



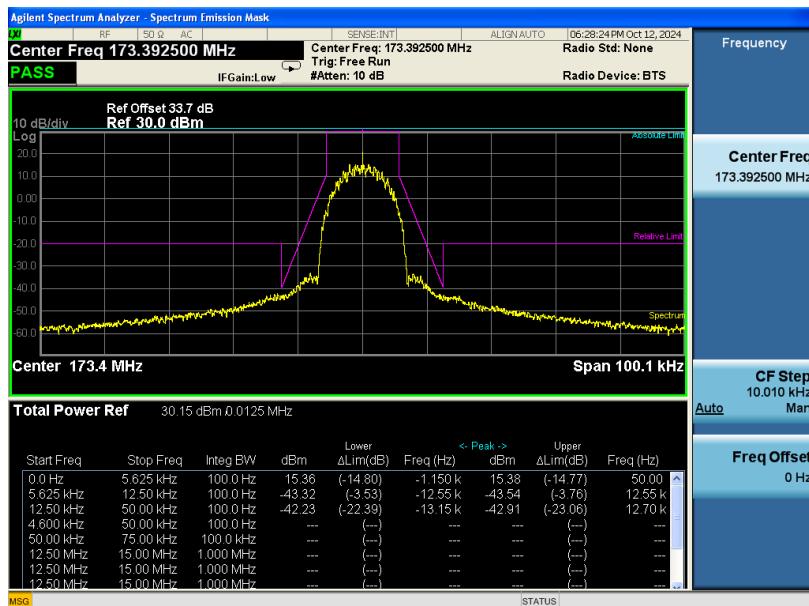
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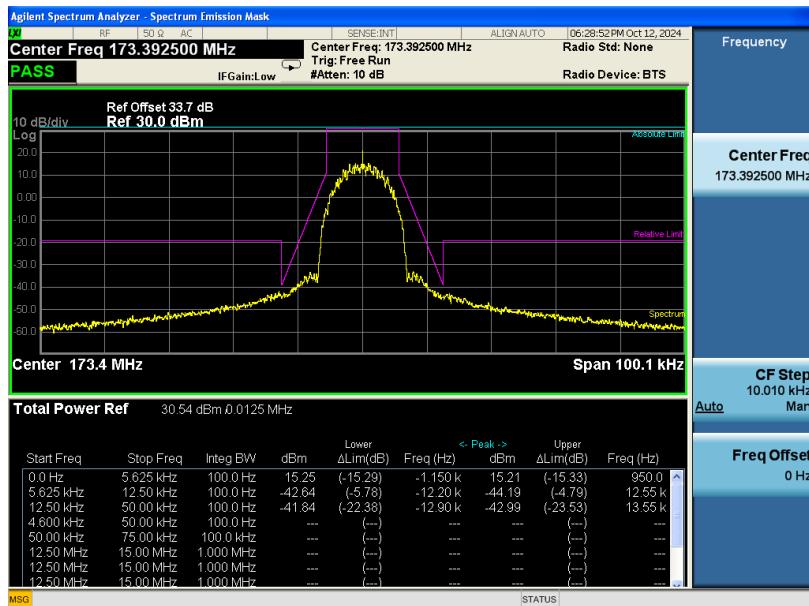


## Emission Masks

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



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



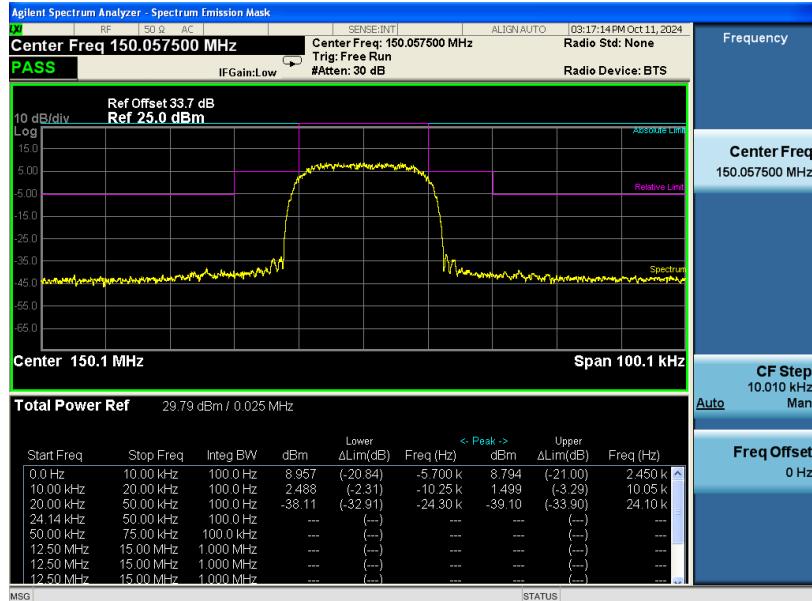
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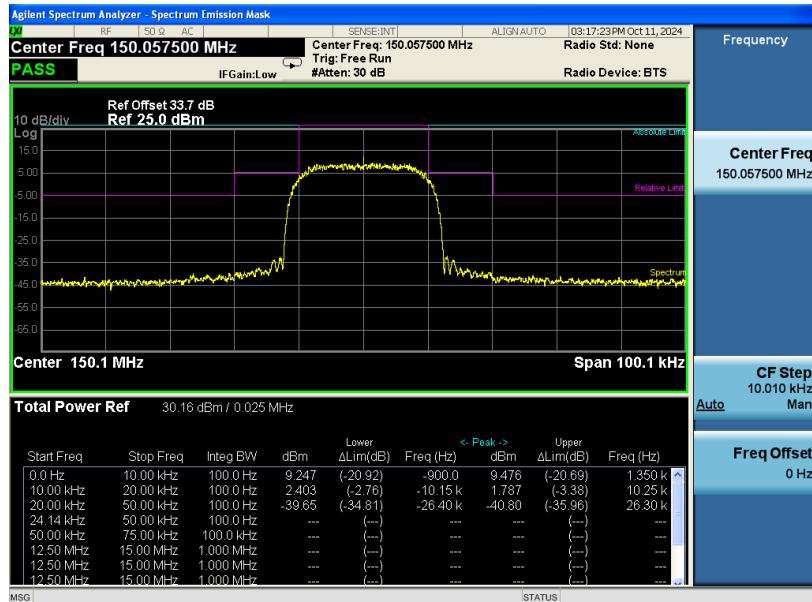


## Emission Masks

## DL\_TETRA\_LCH\_Pre-AGC



## DL\_TETRA\_LCH\_3dB above AGC



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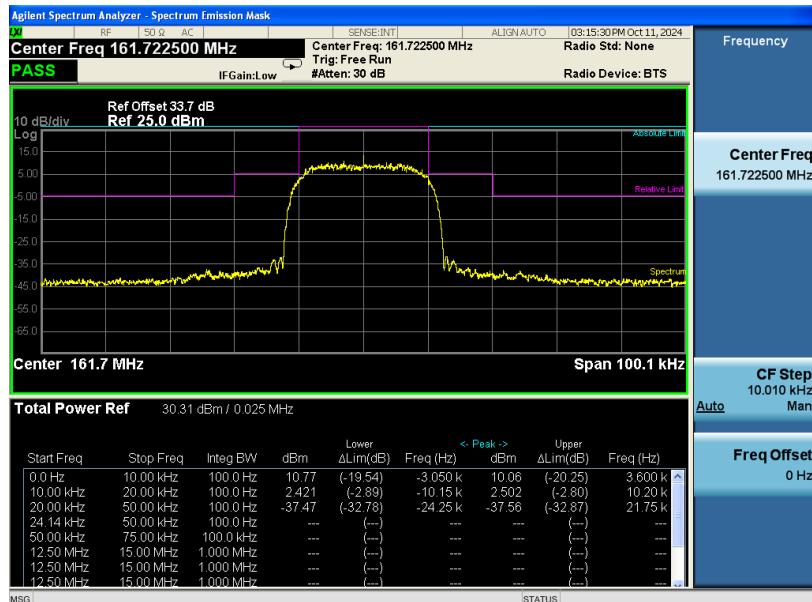


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## Emission Masks

## DL\_TETRA\_MCH\_Pre-AGC



## DL\_TETRA\_MCH\_3dB above AGC



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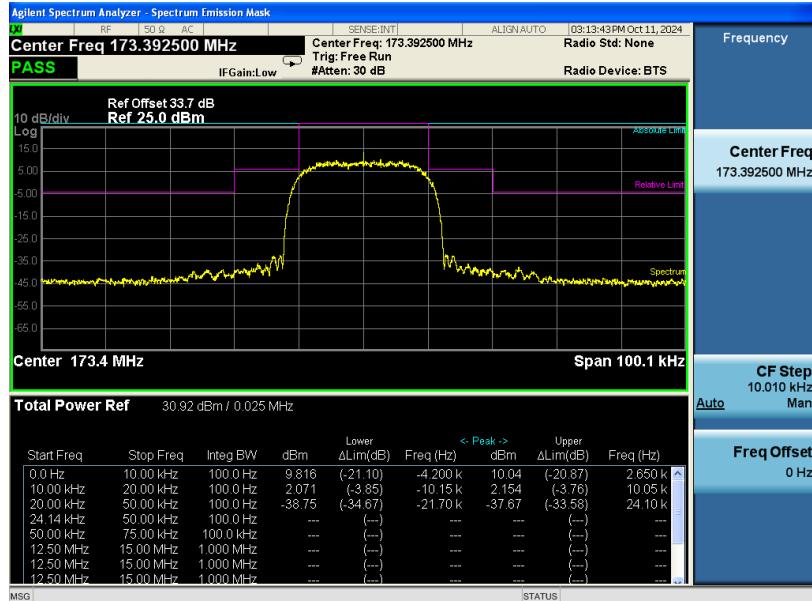


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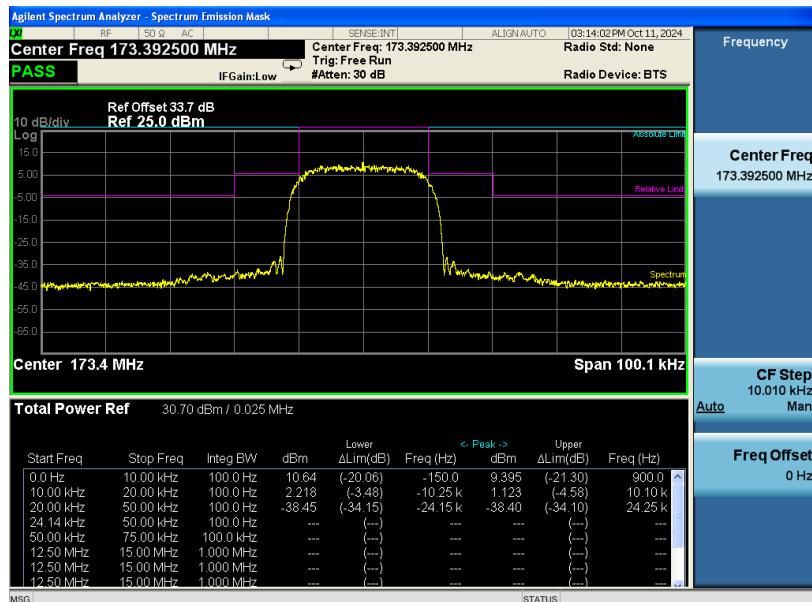
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## Emission Masks

## DL\_TETRA\_HCH\_Pre-AGC



## DL\_TETRA\_HCH\_3dB above AGC



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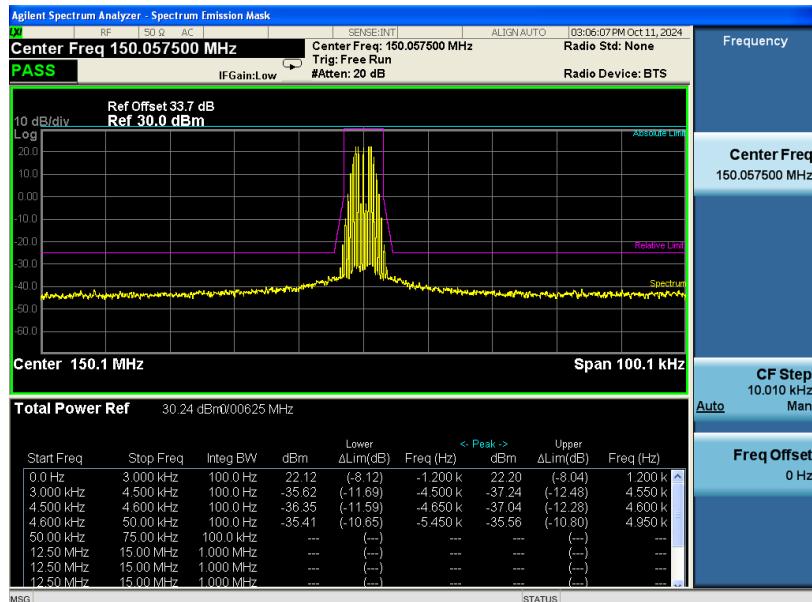
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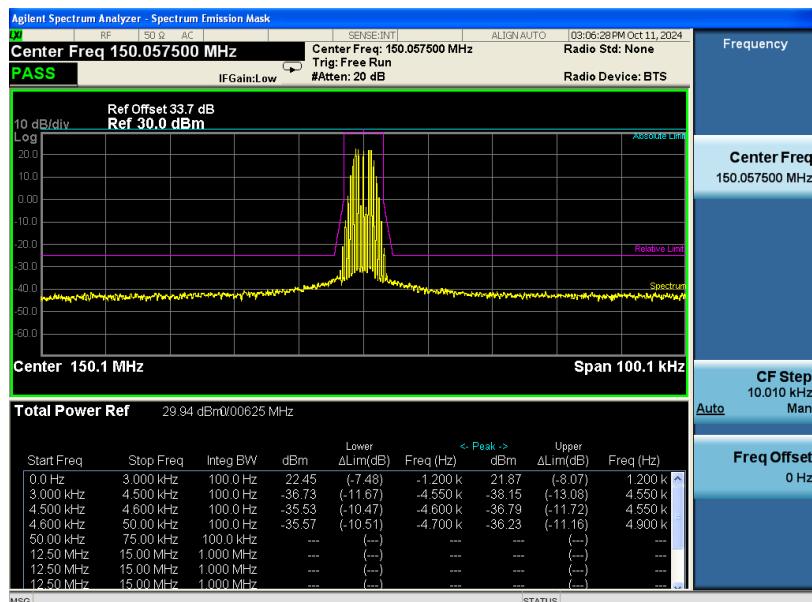
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## Emission Masks

## UL\_FM\_LCH\_Pre-AGC



## UL\_FM\_LCH\_3dB above AGC



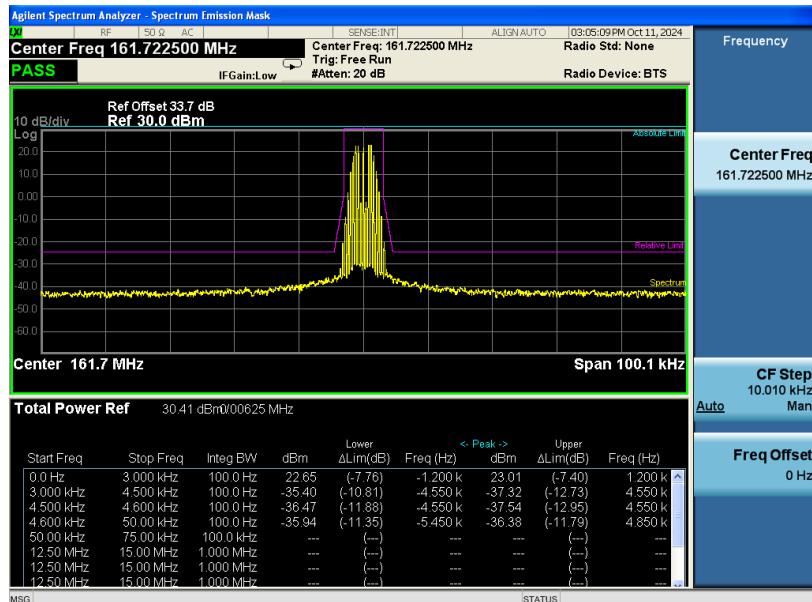
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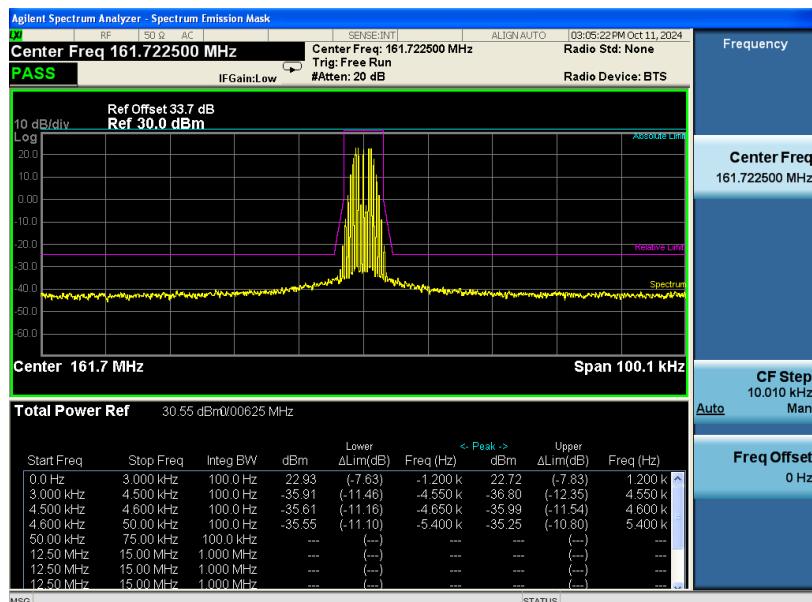


## Emission Masks

## UL\_FM\_MCH\_Pre-AGC



## UL\_FM\_MCH\_3dB above AGC



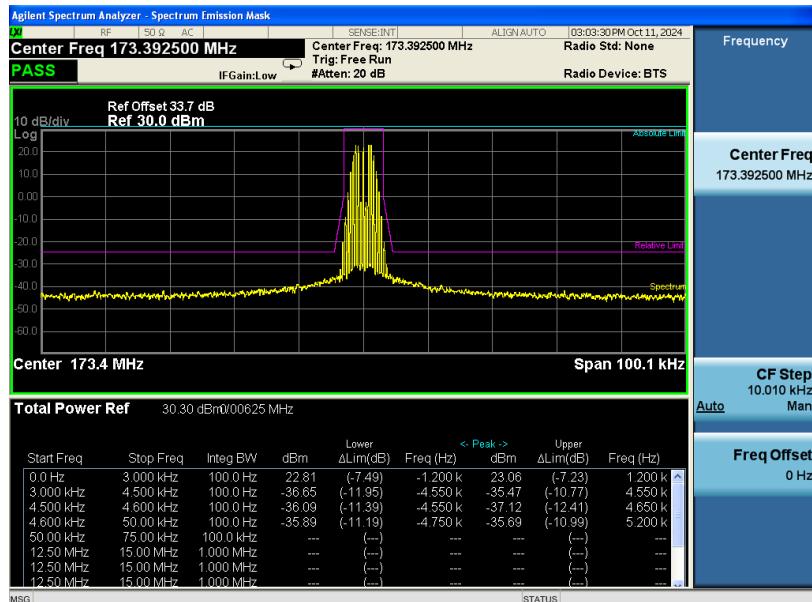
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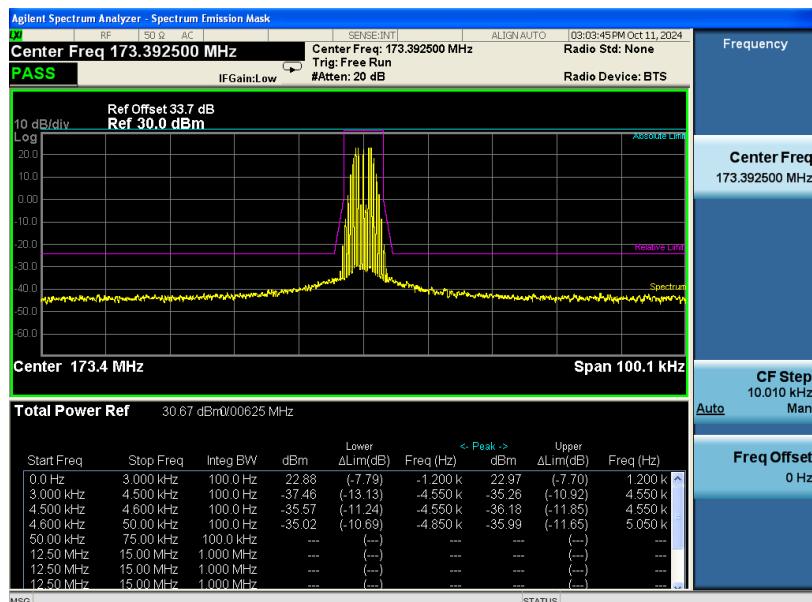


## Emission Masks

## UL\_FM\_HCH\_Pre-AGC



## UL\_FM\_HCH\_3dB above AGC



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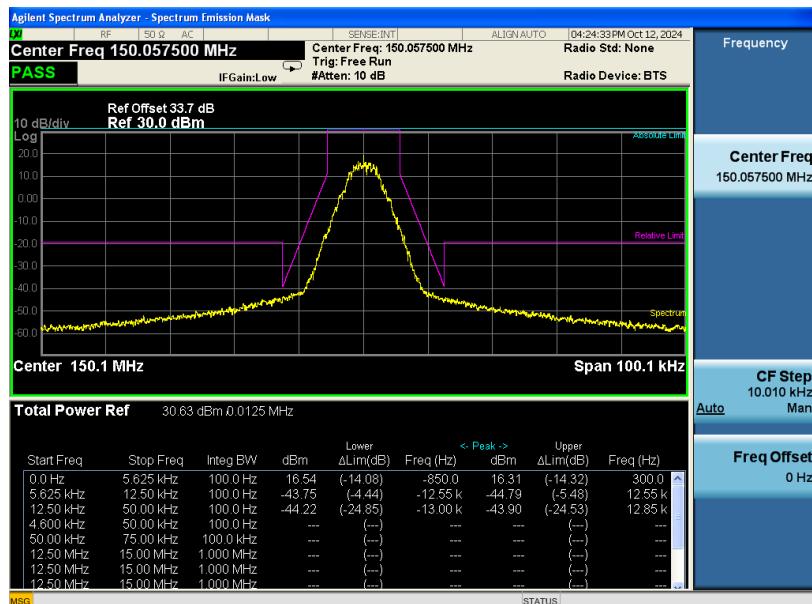


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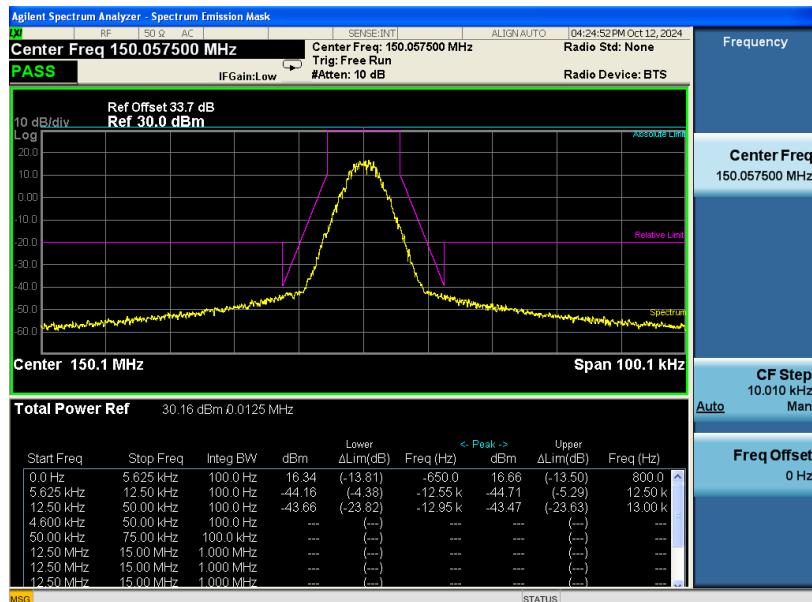
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## Emission Masks

## UL\_DMR\_LCH\_Pre-AGC



## UL\_DMR\_LCH\_3dB above AGC



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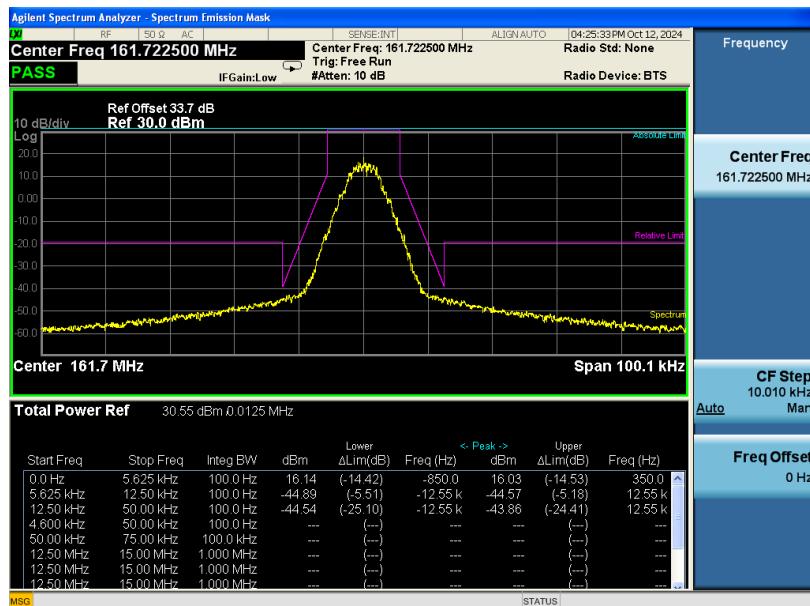


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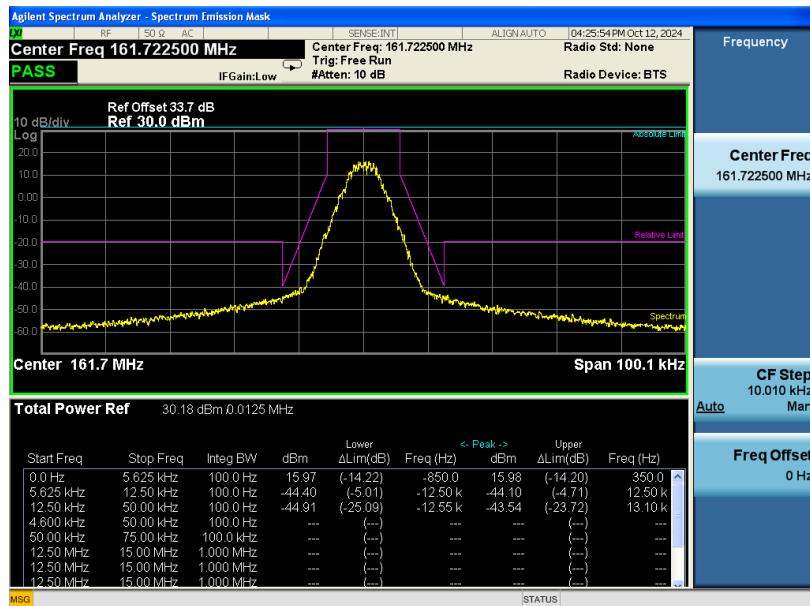
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## Emission Masks

## UL\_DMR\_MCH\_Pre-AGC



## UL\_DMR\_MCH\_3dB above AGC



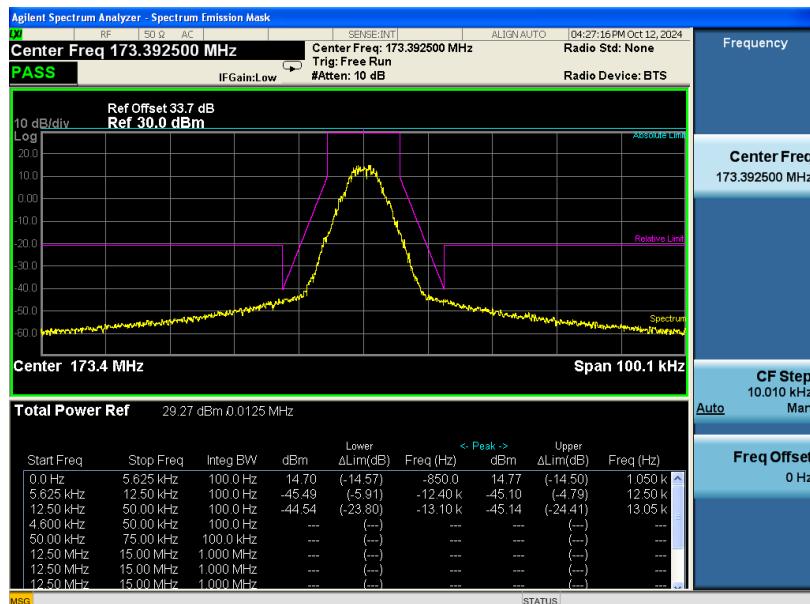
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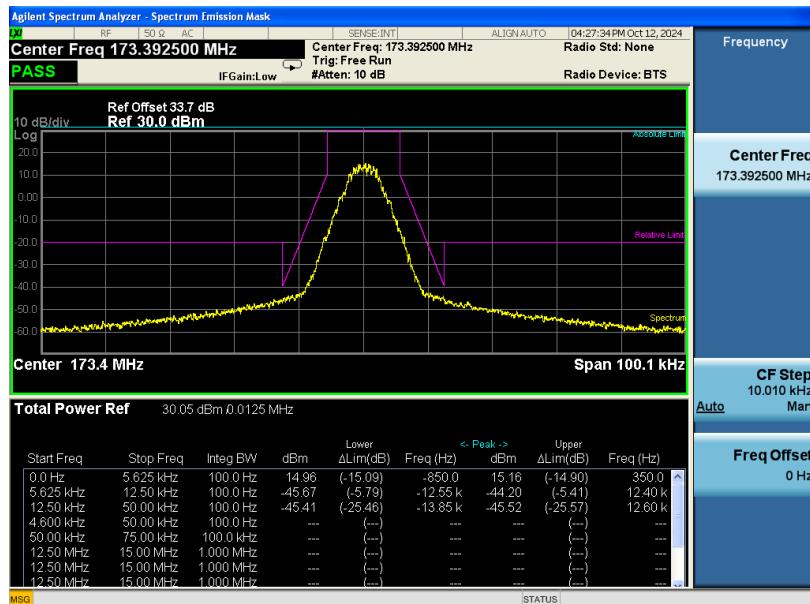


## Emission Masks

## UL\_DMR\_HCH\_Pre-AGC



## UL\_DMR\_HCH\_3dB above AGC



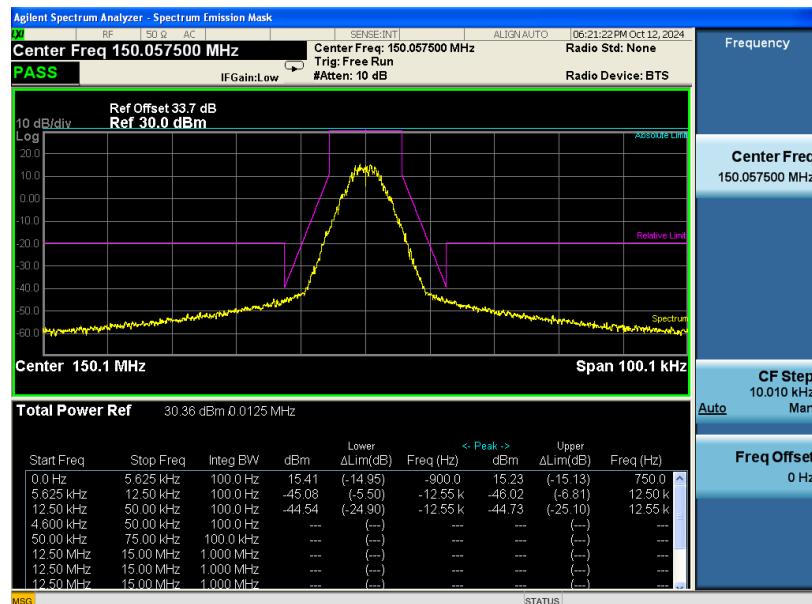
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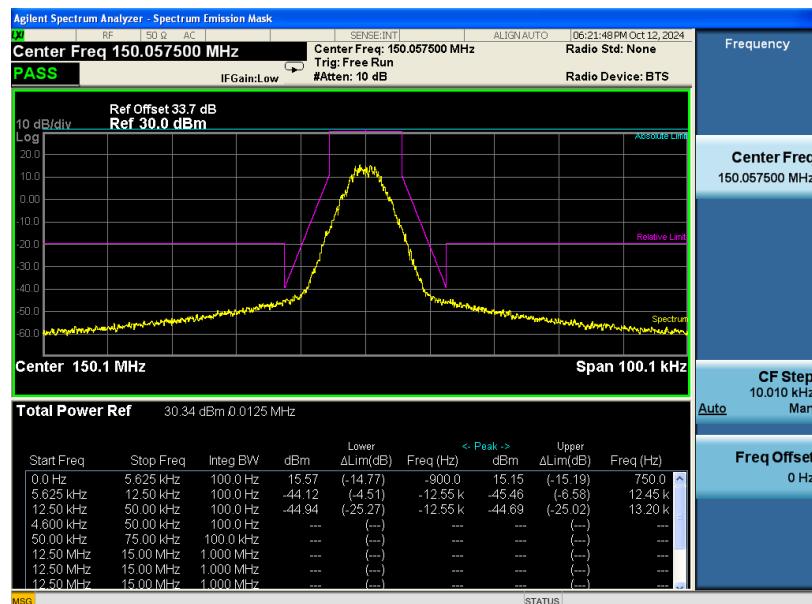


## Emission Masks

## UL\_C4FM\_LCH\_Pre-AGC



## UL\_C4FM\_LCH\_3dB above AGC



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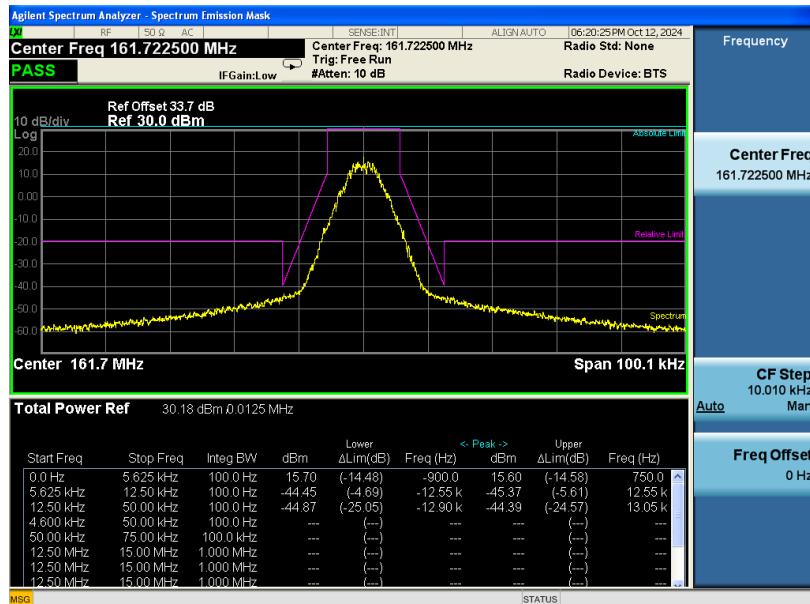


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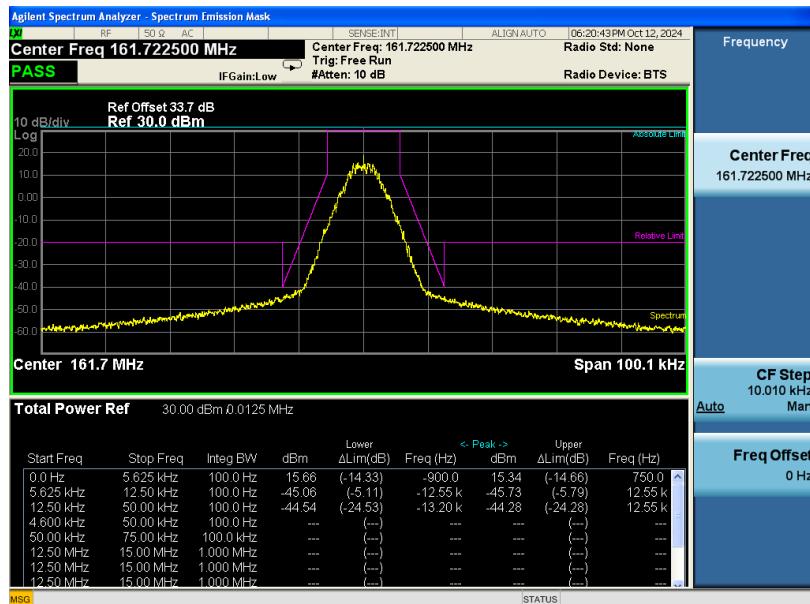
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## Emission Masks

## UL\_C4FM\_MCH\_Pre-AGC



## UL\_C4FM\_MCH\_3dB above AGC



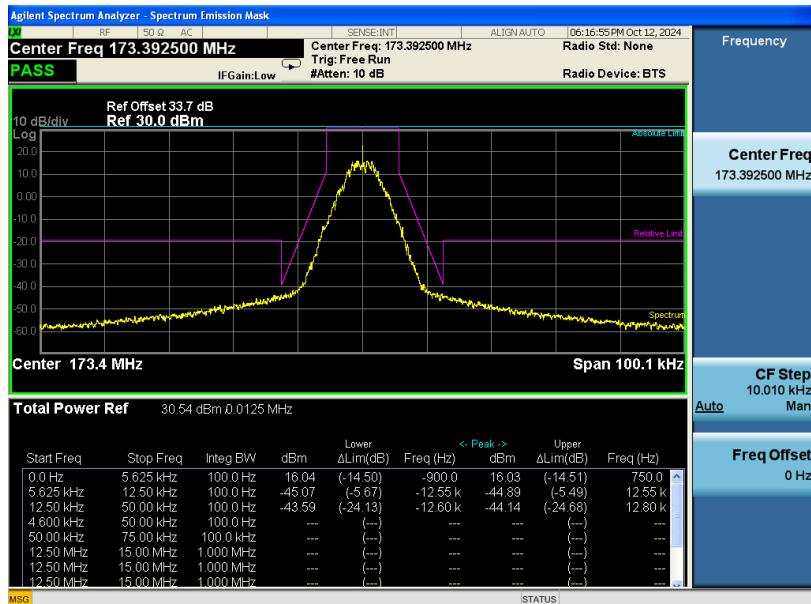
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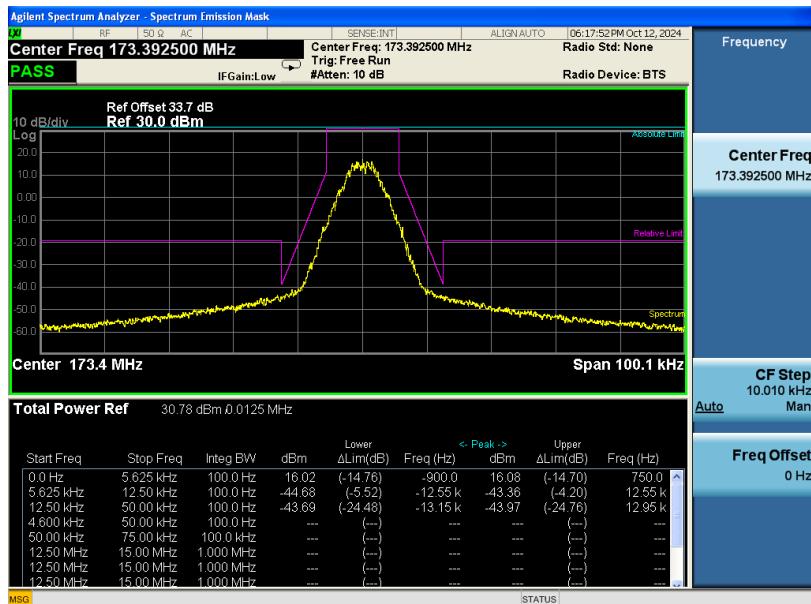


## Emission Masks

## UL\_C4FM\_HCH\_Pre-AGC



## UL\_C4FM\_HCH\_3dB above AGC



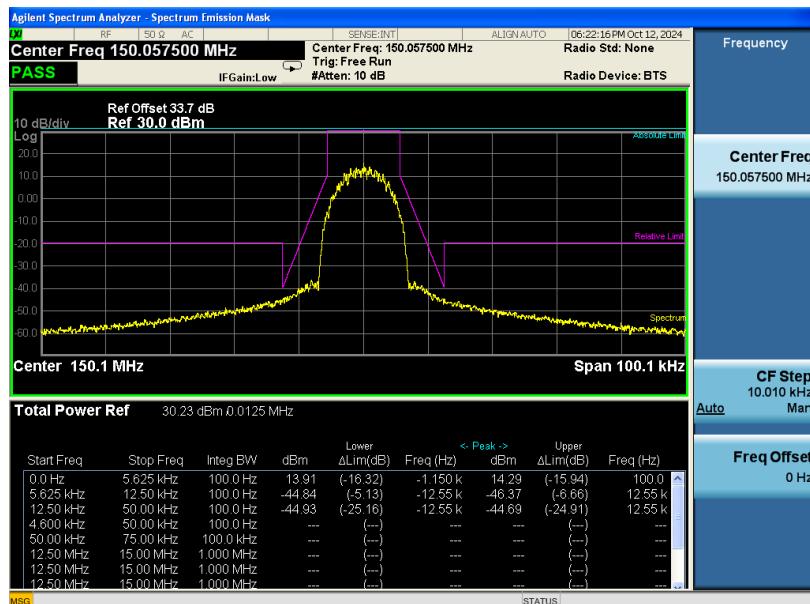
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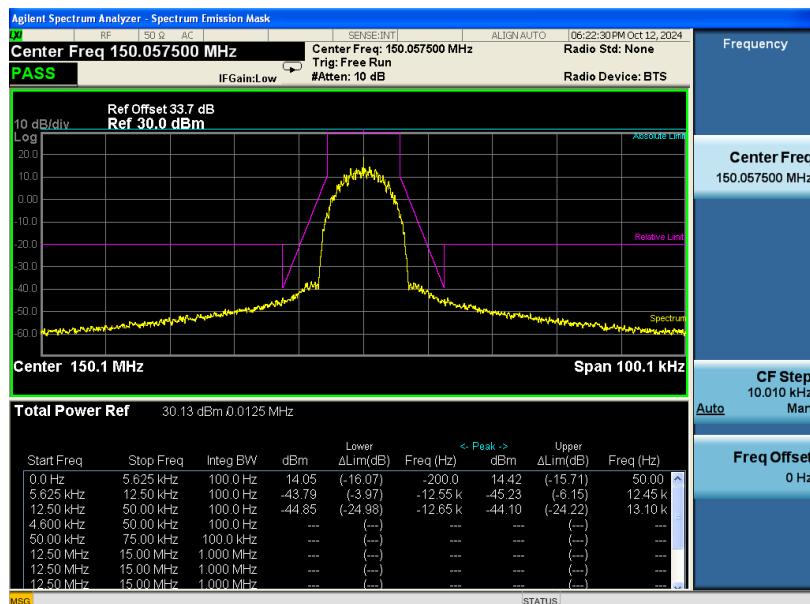


## Emission Masks

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



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



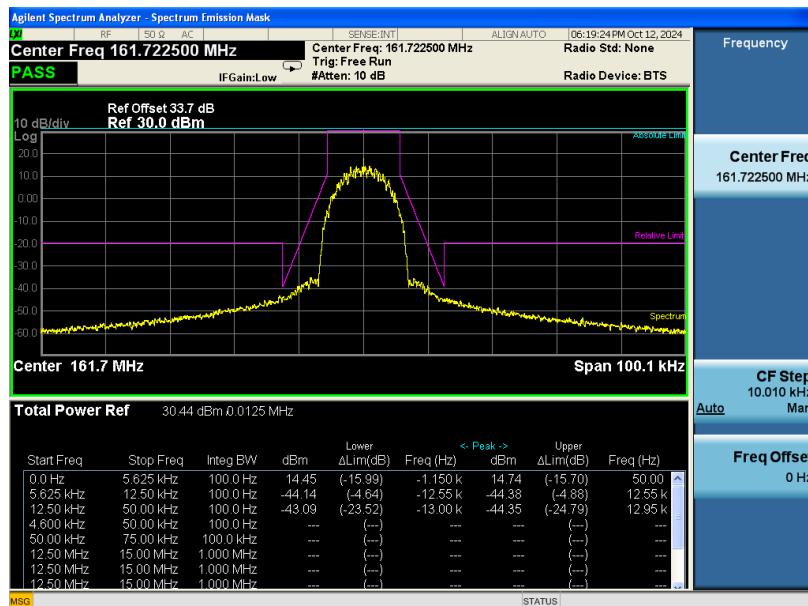
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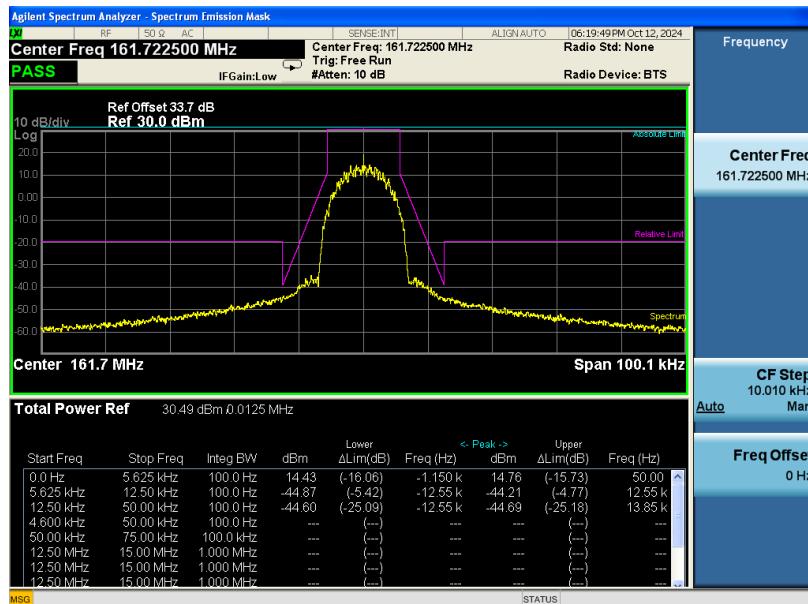


## Emission Masks

## UL\_H-DQPSK\_MCH\_Pre-AGC



## UL\_H-DQPSK\_MCH\_3dB above AGC



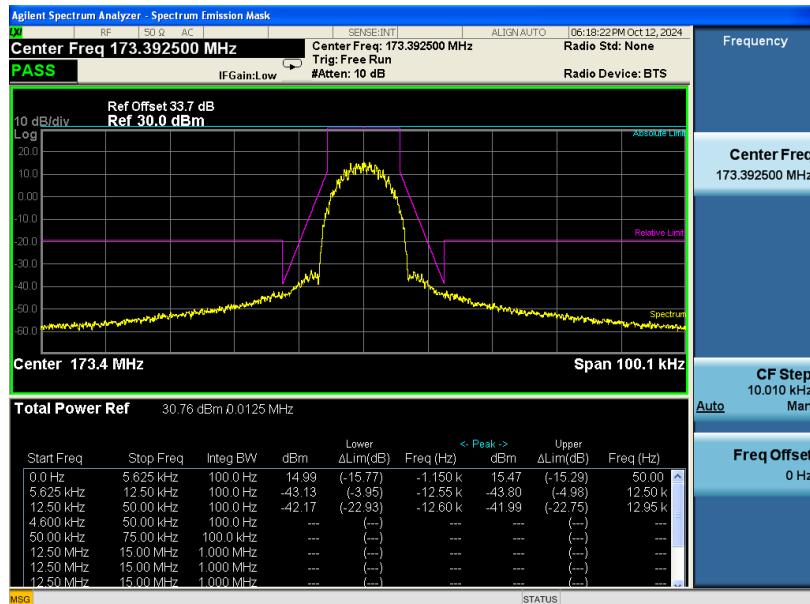
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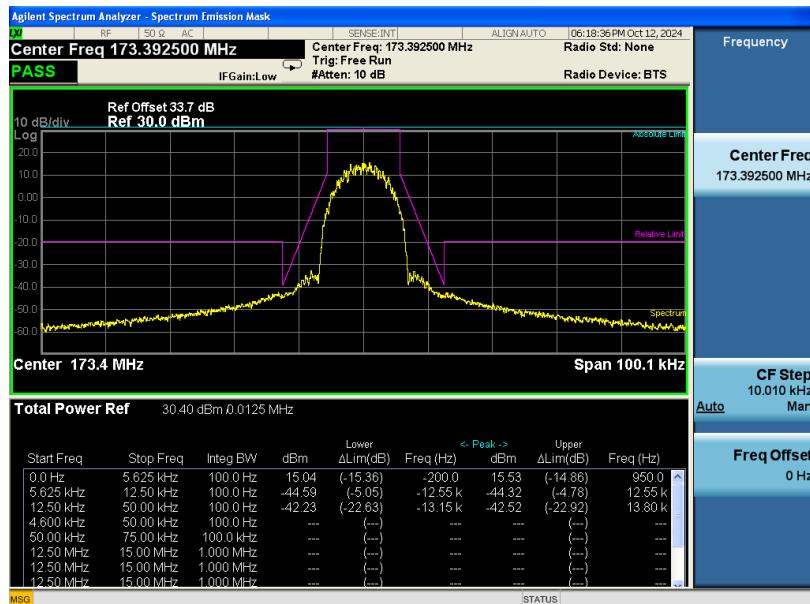


## Emission Masks

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



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



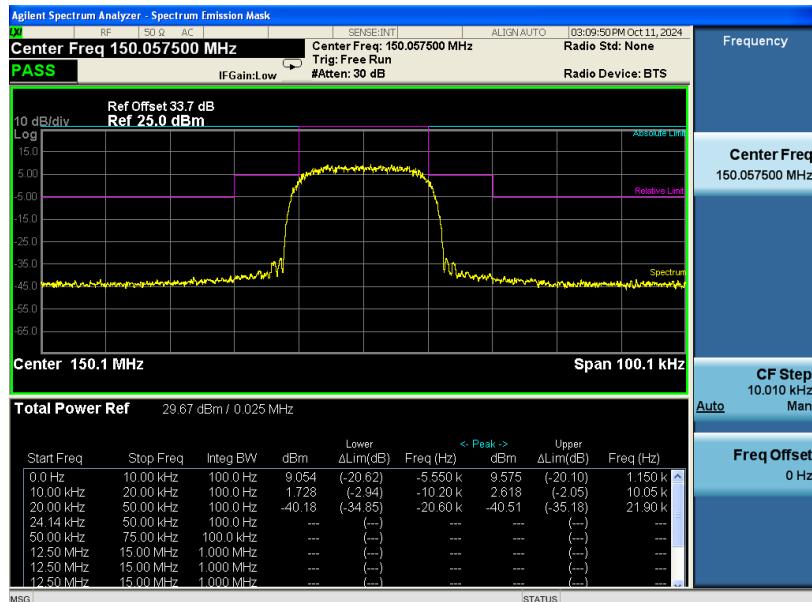
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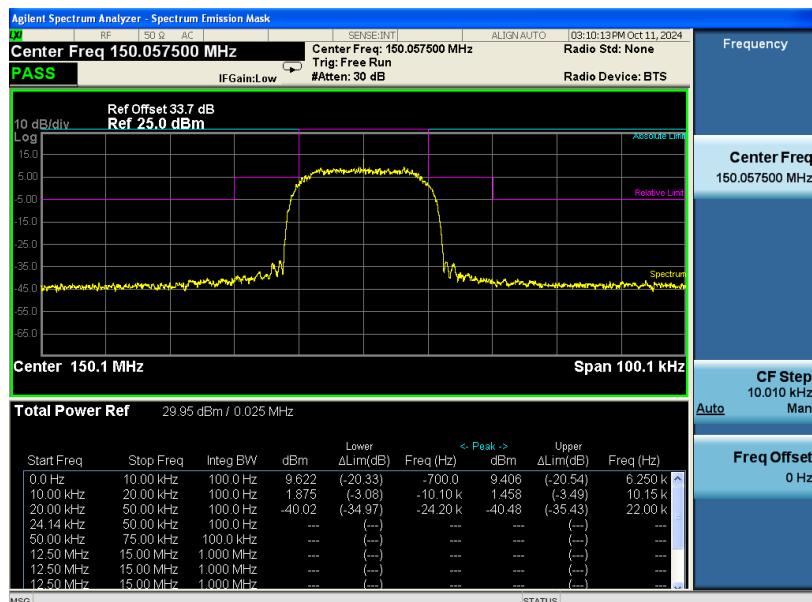


## Emission Masks

## UL\_TETRA\_LCH\_Pre-AGC



## UL\_TETRA\_LCH\_3dB above AGC



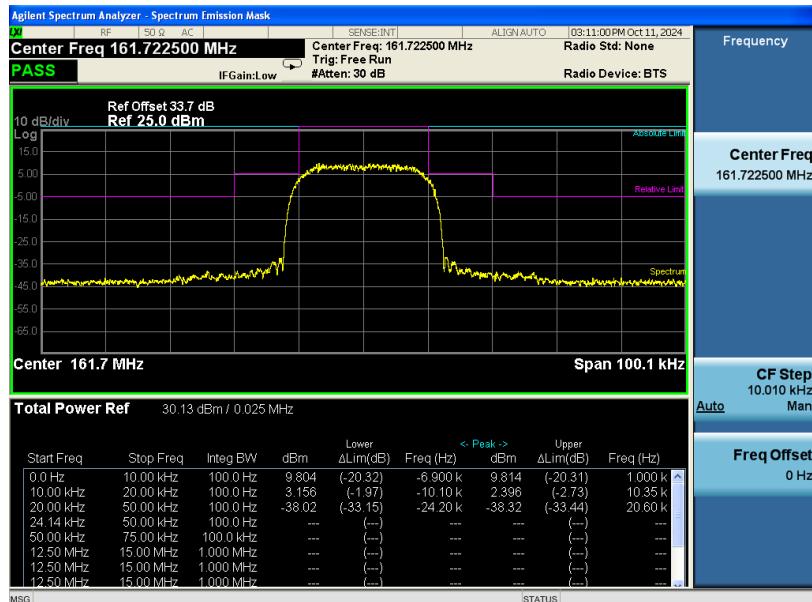
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## Emission Masks

## UL\_TETRA\_MCH\_Pre-AGC



## UL\_TETRA\_MCH\_3dB above AGC



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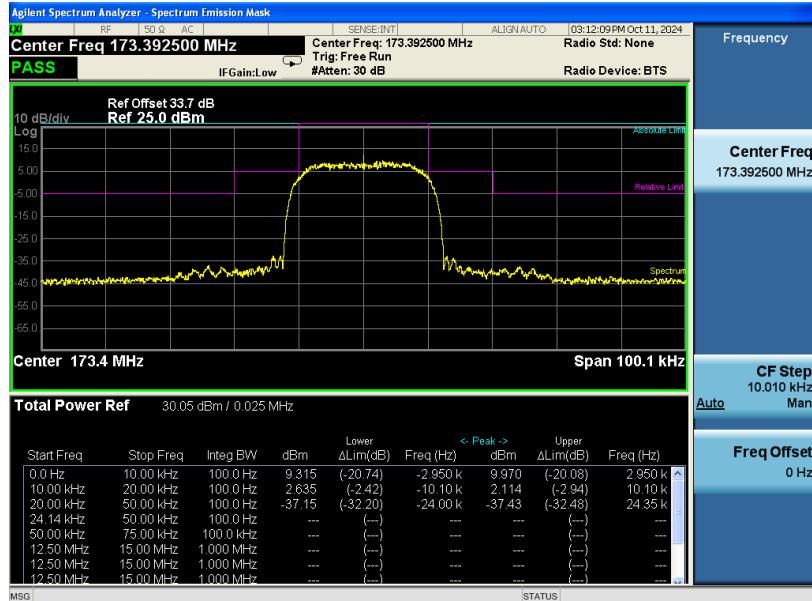


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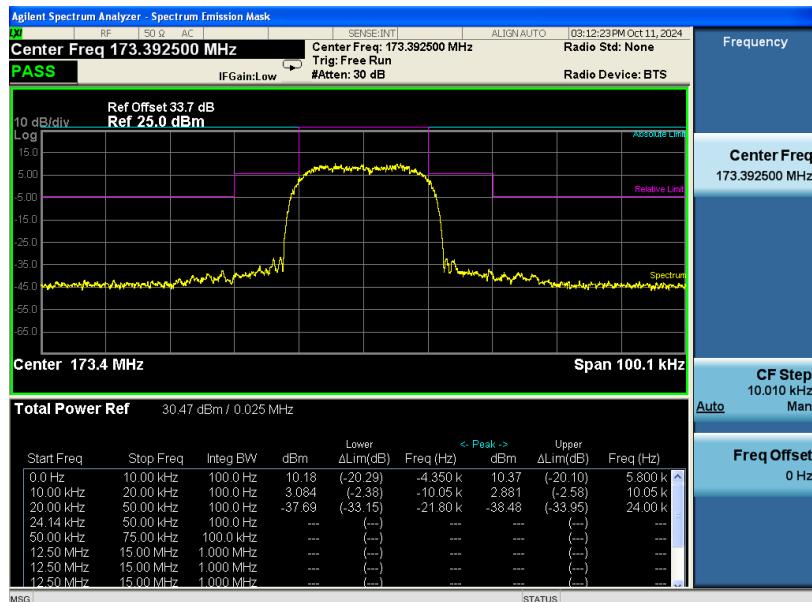
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## Emission Masks

## 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	6.79	$\leq 9$	PASS
UL	6.08		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	169.3	6.25	Pre-AGC	-23.52	-8.29
			3dB above AGC	-22.55	-7.32
		12.5	Pre-AGC	-20.71	-5.48
			3dB above AGC	-20.46	-5.23
		25	Pre-AGC	-20.72	-5.49
			3dB above AGC	-21.22	-5.99
UL	169.4	6.25	Pre-AGC	-22.20	-6.97
			3dB above AGC	-22.51	-7.28
		12.5	Pre-AGC	-22.10	-6.87
			3dB above AGC	-21.68	-6.45
		25	Pre-AGC	-21.92	-6.69
			3dB above AGC	-20.44	-5.21

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  $-5.21/10\text{kHz} + 0\text{dBi} - 2.15\text{dB} = -7.36\text{dBm}$ , the applicant must use good engineering practice to make sure that the ERP of intermodulation products should not exceed  $-30\text{dBm}$  in 10kHz measurement bandwidth.

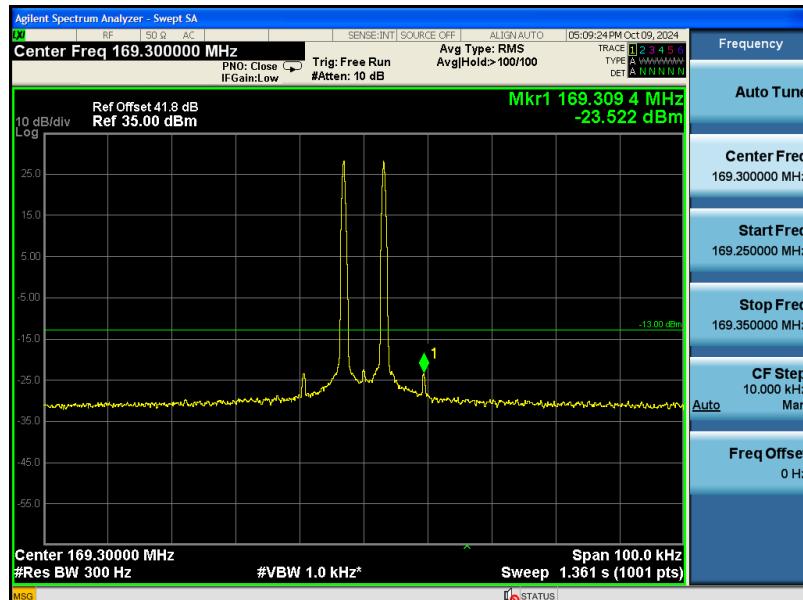


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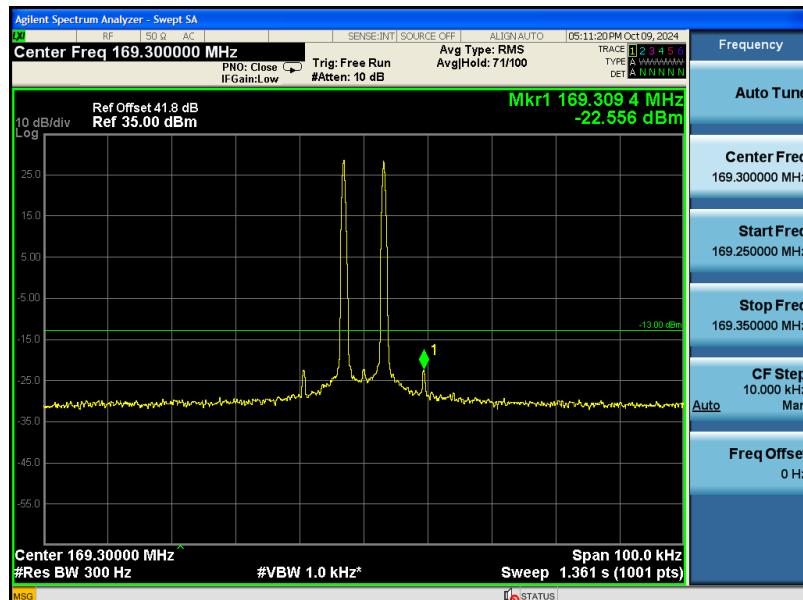
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## Intermodulation

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



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



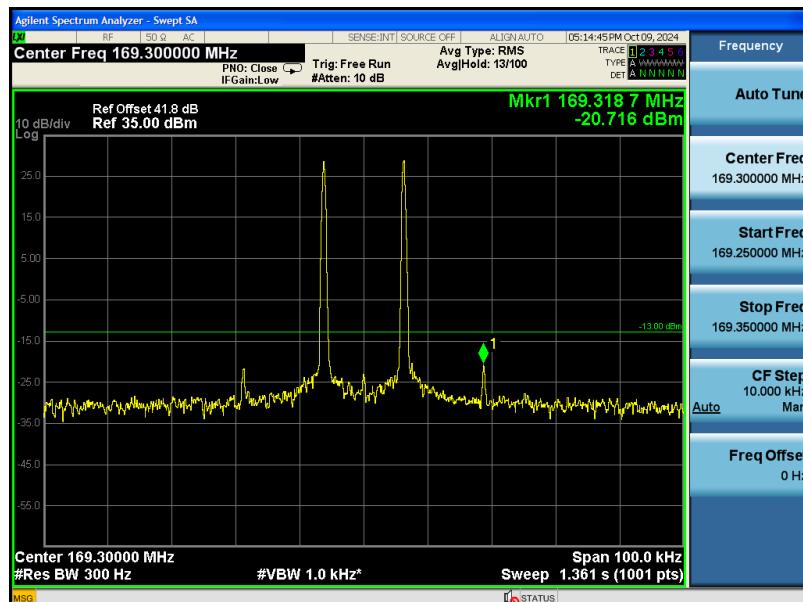
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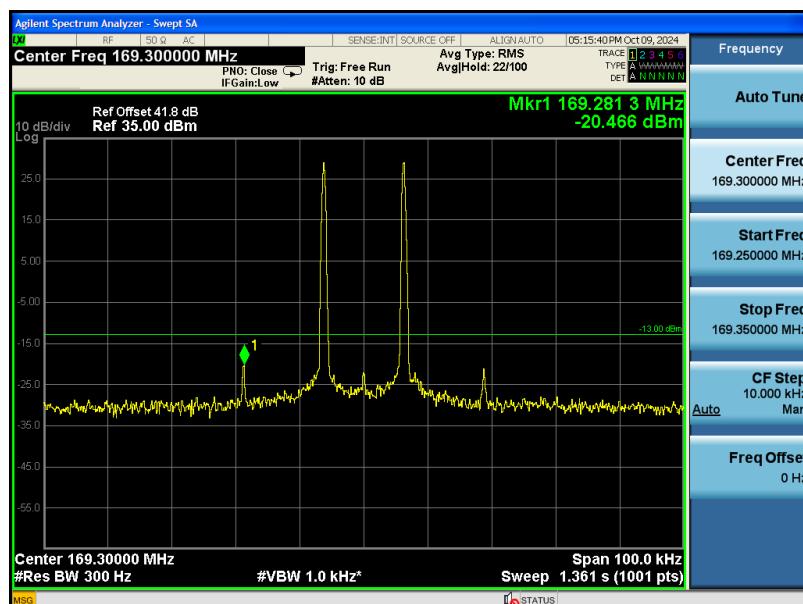


## Intermodulation

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



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



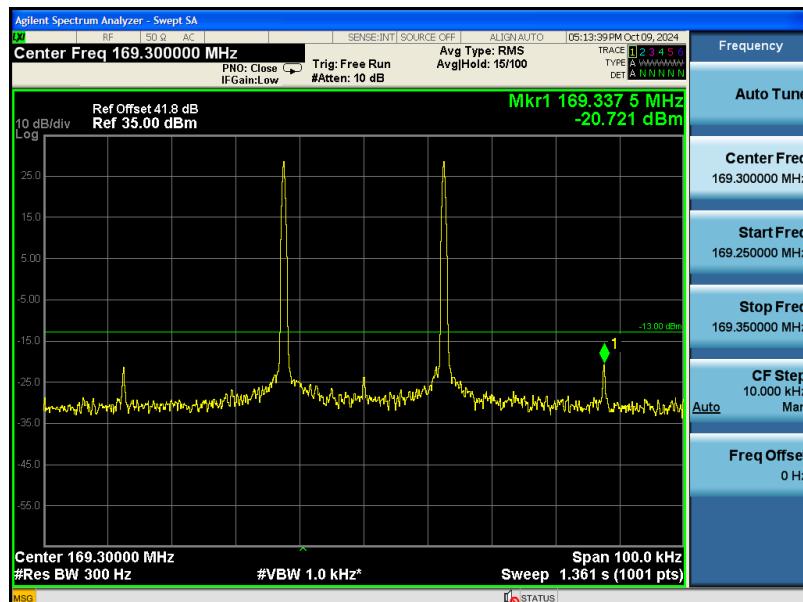
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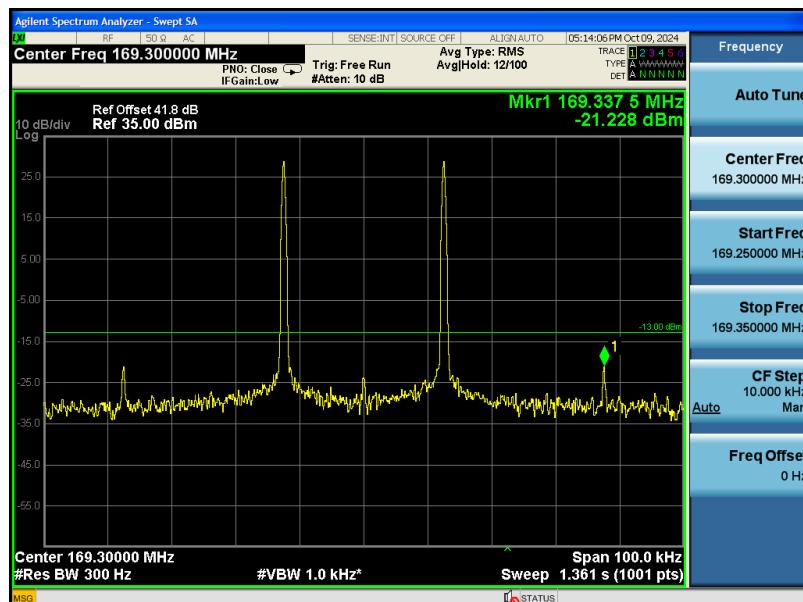


## Intermodulation

## DL\_25kHz\_Pre-AGC



## DL\_25kHz\_3dB above AGC



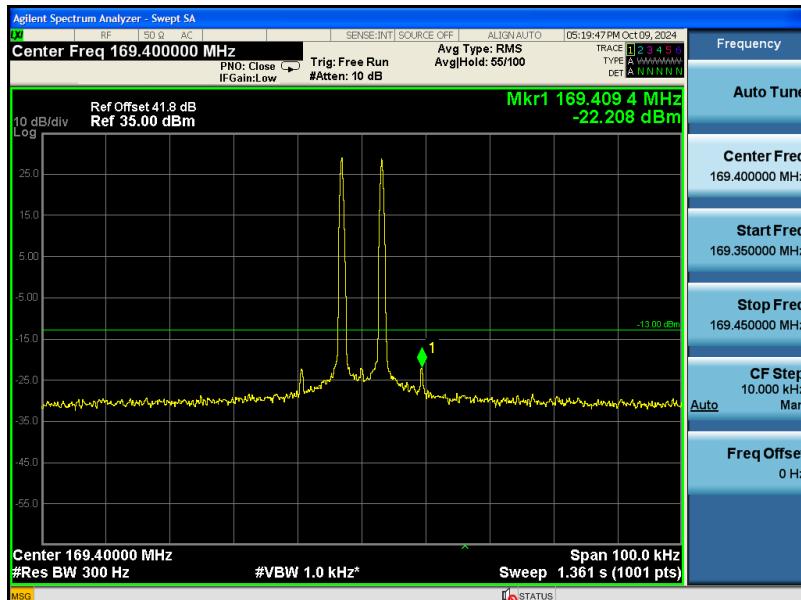
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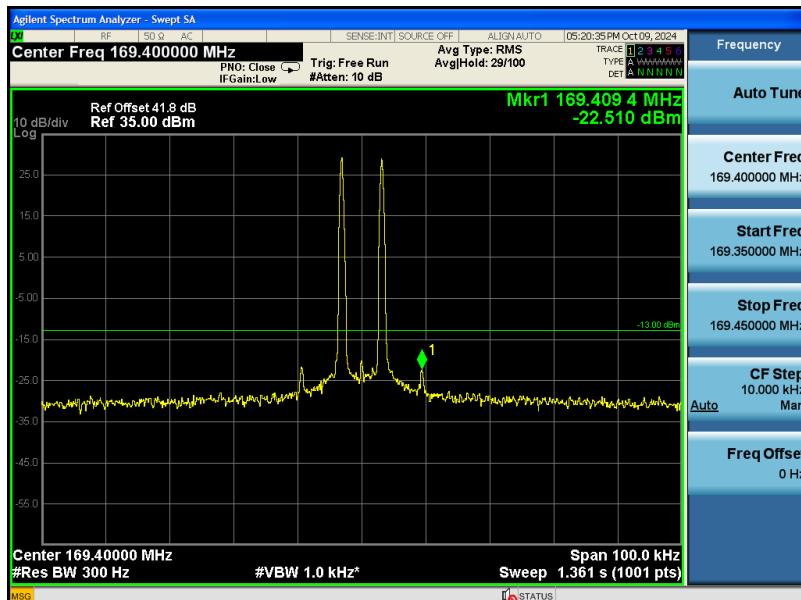


## Intermodulation

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



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



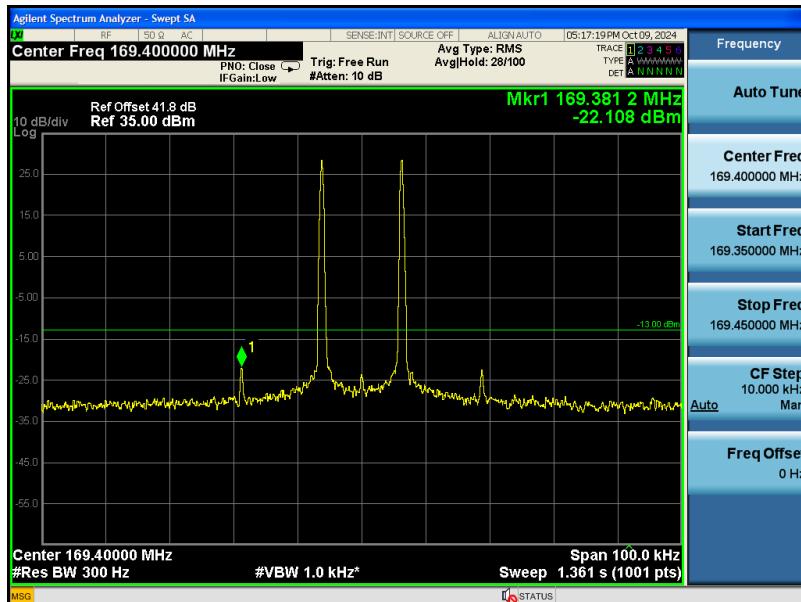
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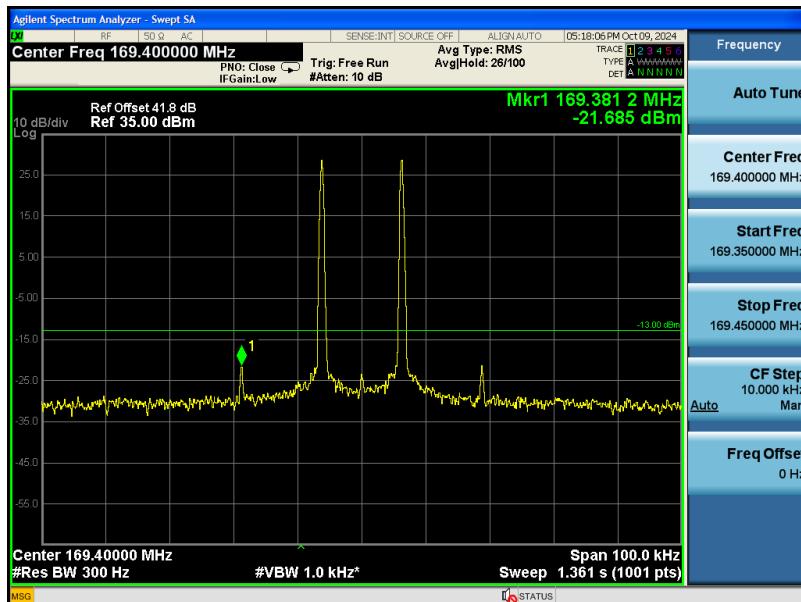


## Intermodulation

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



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



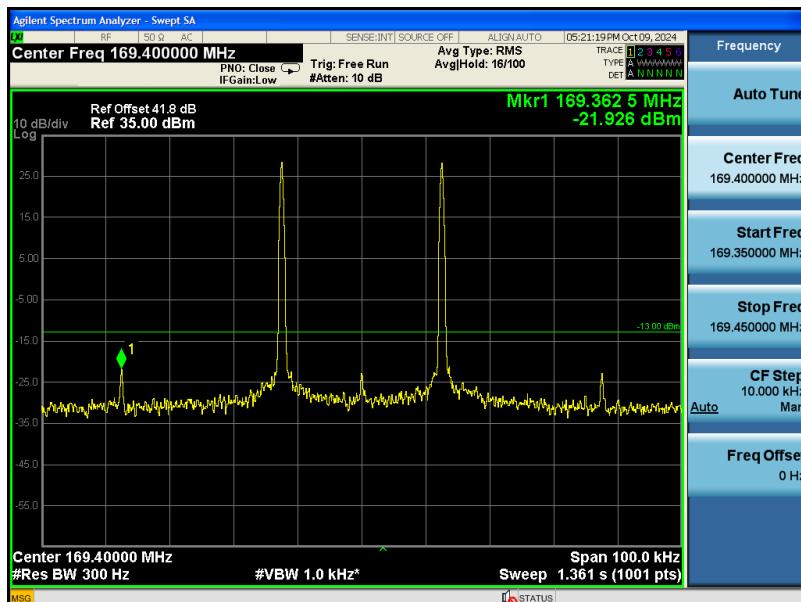
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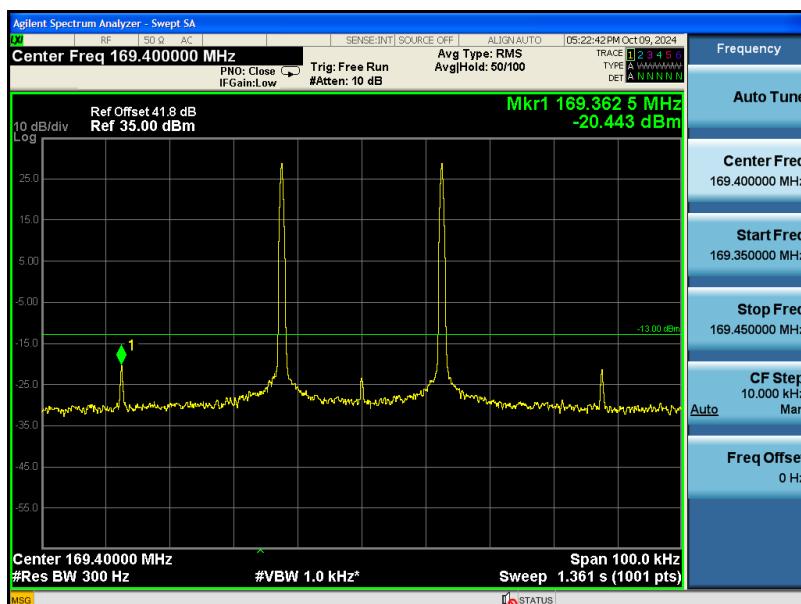


## Intermodulation

## UL\_25kHz\_Pre-AGC



UL 25kHz 3dB above AGC



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## 7 Conducted Spurious emissions

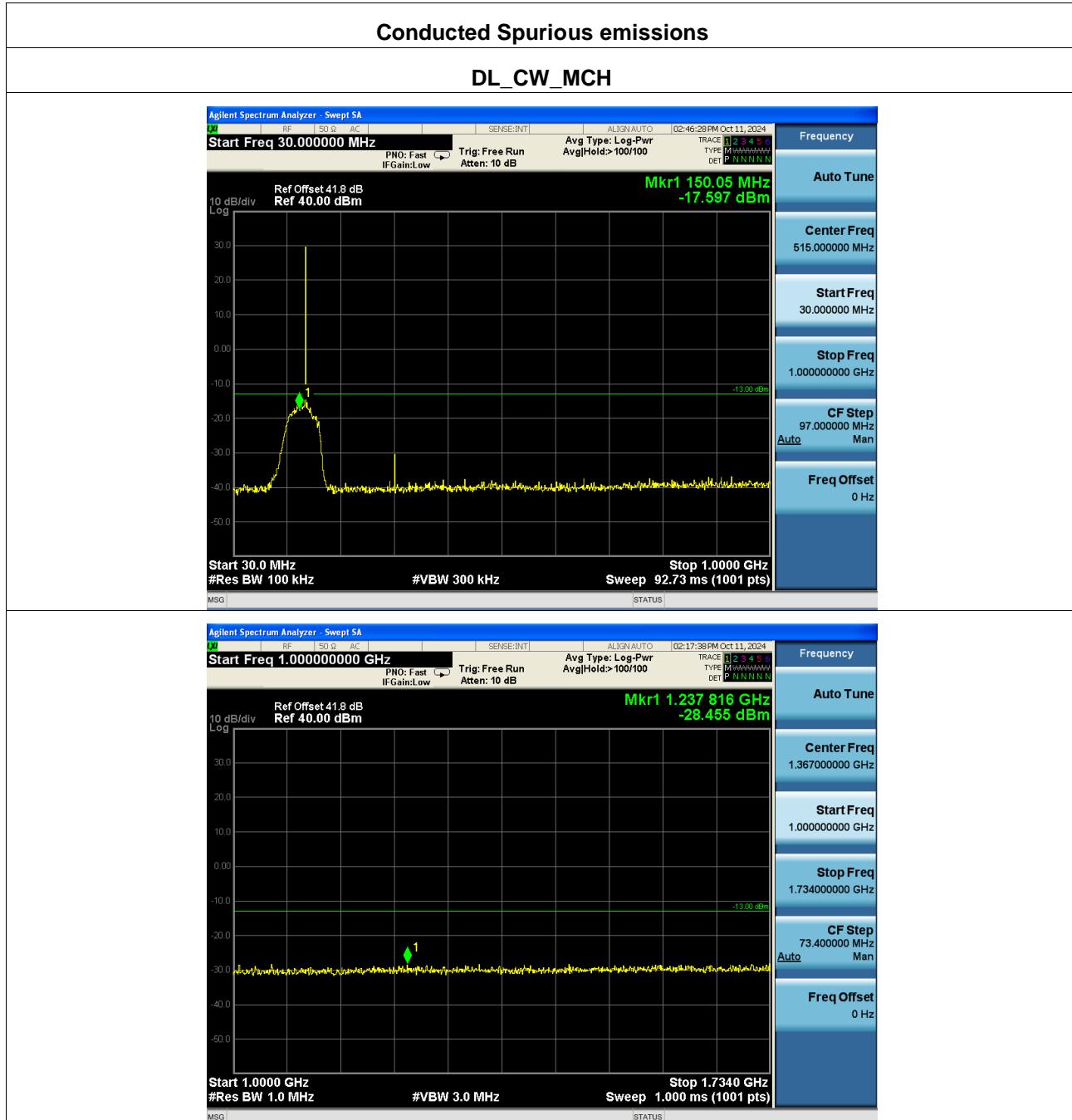
Conducted Spurious emissions						
Test path	Test signal	Test channel	Frequency range (MHz)	Worst test level (dBm)	Limit (dBm)	Verdict
DL	CW	MCH	0.09-30	-43.45	≤-13	PASS
			30-1000	-17.59	≤-13	PASS
			1000-1734	-28.45	≤-13	PASS
UL	CW	MCH	0.09-30	-45.02	≤-13	PASS
			30-1000	-27.01	≤-13	PASS
			1000-1734	-27.93	≤-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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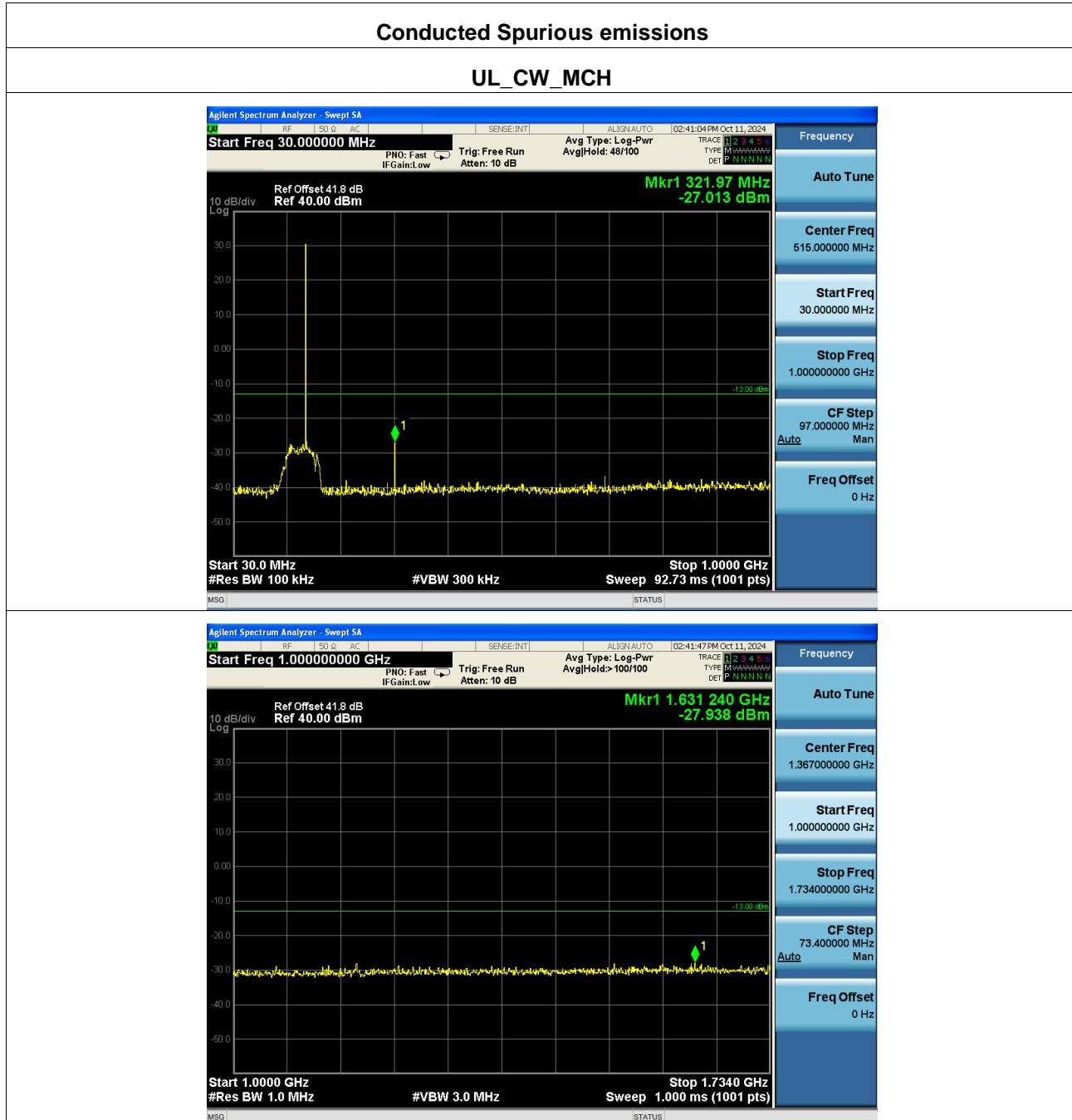
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## 8 Noise

Noise within the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	150.05-173.4	-16.93
UL	150.05-173.4	-19.92
Noise outside of the passband		
Test path	Frequency range (MHz)	Worst conducted test level (dBm)
DL	0.009-30	-51.29
	30-149.05	-25.66
	174.4-1740	-23.99
UL	0.009-30	-56.73
	30-149.05	-38.77
	174.4-1740	-31.73

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  $-19.91/10\text{kHz} + 0\text{dBi} - 2.15\text{dB} = -17.76\text{dBm}$ , the applicant must use good engineering practice to make sure that the ERP of noise within the passband should not exceed  $-43\text{dBm}$  in  $10\text{kHz}$  measurement bandwidth.
3. The ERP of worst noise outside of the passband is  $-28.53/10\text{kHz} + 0\text{dBi} - 2.15\text{dB} = -26.38\text{dBm}$ , the applicant must use good engineering practice to make sure that the ERP of noise outside the passband should not exceed  $-70\text{dBm}$  in  $10\text{kHz}$  measurement bandwidth.
4. The noise  $9\text{kHz}$  to  $30\text{MHz}$  were very low and not displayed test plots in this report.

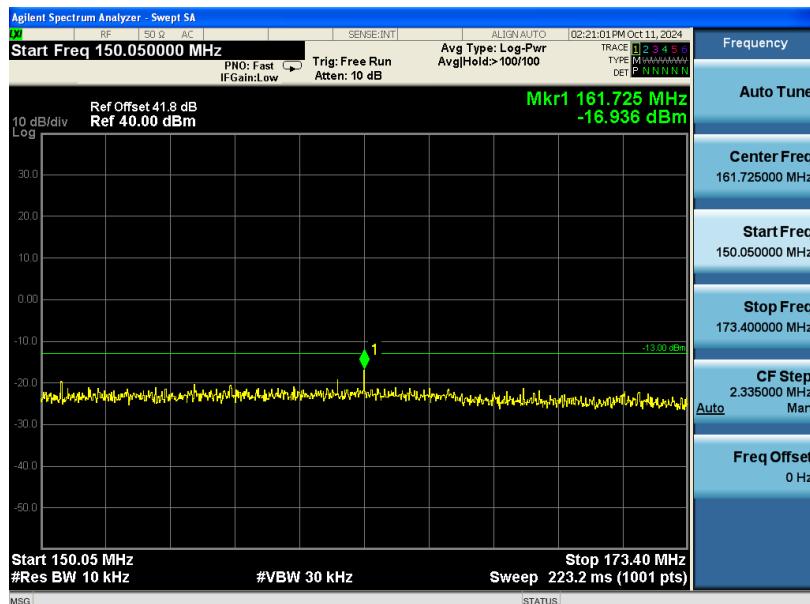


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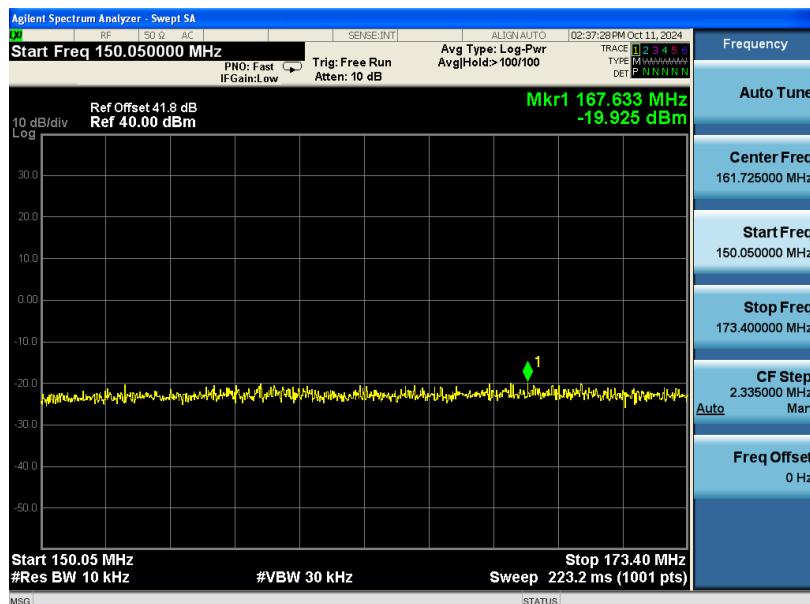
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## Noise within the passband

DL



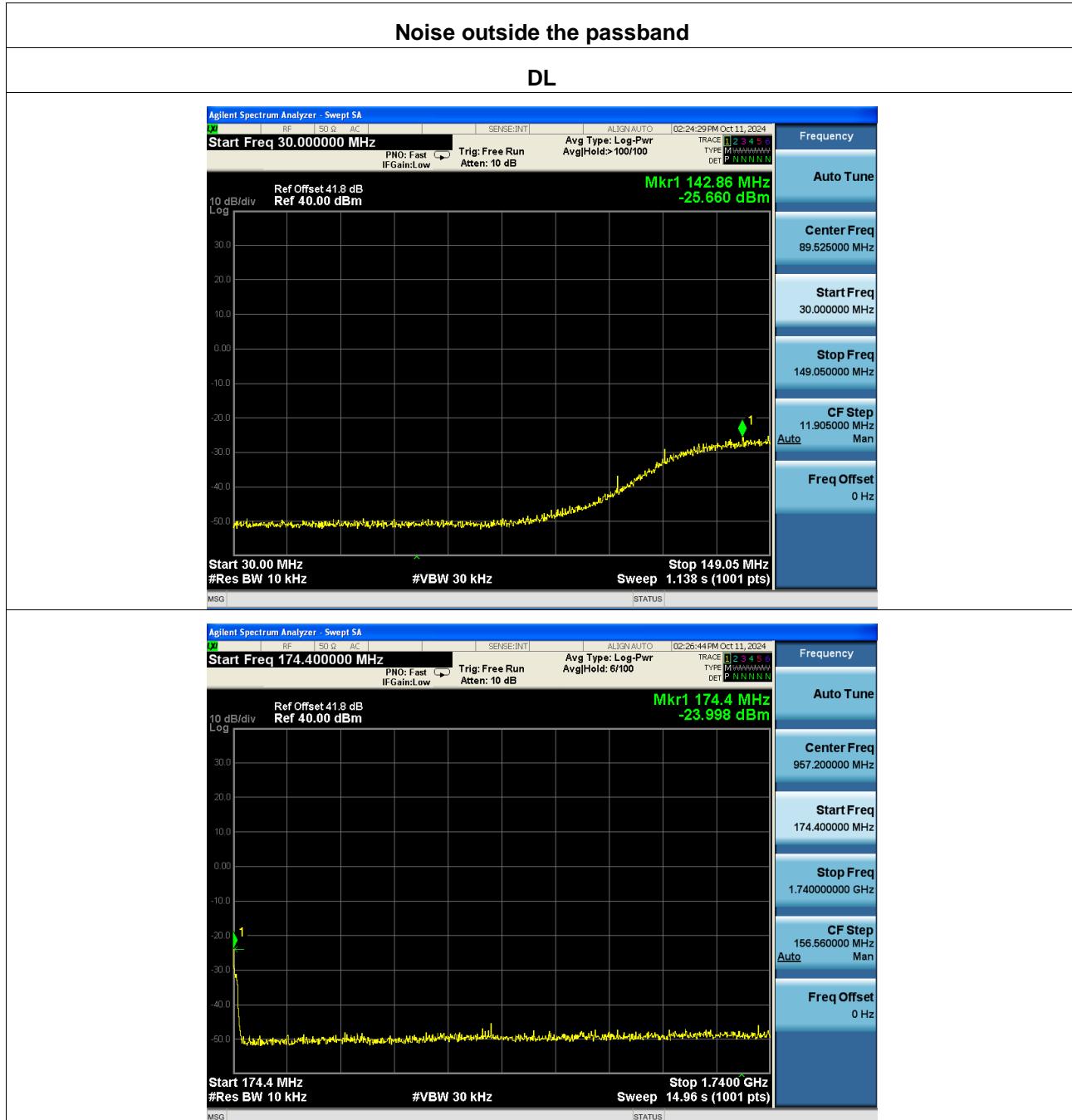
UL



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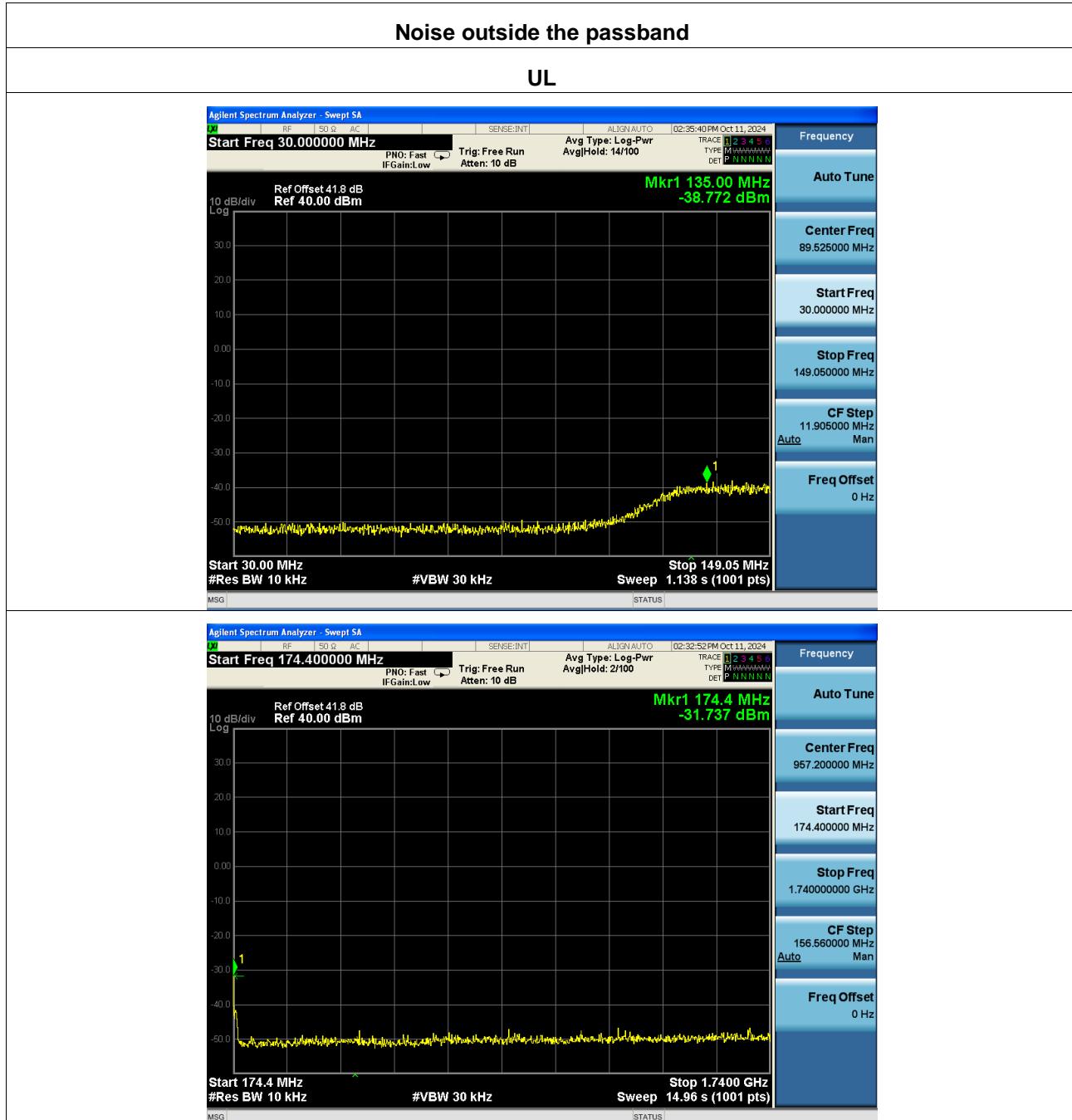




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## 9 Frequency Stability

Frequency stability vs voltage							
Test path	Test Signal	Test Channel	Temperature	Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	FM	MCH	TN	VL	1.0	0.0062	PASS
			TN	VH	1.2	0.0074	PASS
	DMR	MCH	TN	VL	1.1	0.0068	PASS
			TN	VH	1.4	0.0087	PASS
	C4FM	MCH	TN	VL	3.9	0.0241	PASS
			TN	VH	3.2	0.0198	PASS
	H-DQPSK	MCH	TN	VL	3.9	0.0241	PASS
			TN	VH	3.2	0.0198	PASS
	TETRA	MCH	TN	VL	3.9	0.0241	PASS
			TN	VH	3.7	0.0229	PASS
UL	FM	MCH	TN	VL	1.6	0.0099	PASS
			TN	VH	2.7	0.0167	PASS
	DMR	MCH	TN	VL	3.1	0.0192	PASS
			TN	VH	1.9	0.0117	PASS
	C4FM	MCH	TN	VL	3.5	0.0216	PASS
			TN	VH	1.5	0.0093	PASS
	H-DQPSK	MCH	TN	VL	2.4	0.0148	PASS
			TN	VH	3.3	0.0204	PASS
	TETRA	MCH	TN	VL	2.5	0.0155	PASS
			TN	VH	3.7	0.0229	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	3.3	0.0204	PASS
			VN	+40	2.5	0.0155	PASS
			VN	+30	2.7	0.0167	PASS
			VN	+20	2.7	0.0167	PASS
			VN	+10	2.8	0.0173	PASS
			VN	0	1.0	0.0062	PASS
			VN	-10	3.4	0.0210	PASS
			VN	-20	2.6	0.0161	PASS
			VN	-30	1.0	0.0062	PASS
DL	MDR	MCH	VN	+50	3.6	0.0223	PASS
			VN	+40	2.0	0.0124	PASS
			VN	+30	2.1	0.0130	PASS
			VN	+20	1.6	0.0099	PASS
			VN	+10	3.1	0.0192	PASS
			VN	0	2.3	0.0142	PASS
			VN	-10	3.0	0.0186	PASS
			VN	-20	2.9	0.0179	PASS
			VN	-30	2.5	0.0155	PASS
C4FM	MCH	MCH	VN	+50	2.7	0.0167	PASS
			VN	+40	1.9	0.0117	PASS
			VN	+30	3.6	0.0223	PASS
			VN	+20	3.2	0.0198	PASS
			VN	+10	3.3	0.0204	PASS
			VN	0	1.3	0.0080	PASS
			VN	-10	1.6	0.0099	PASS
			VN	-20	3.3	0.0204	PASS
			VN	-30	2.5	0.0155	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	3.8	0.0235	PASS
			VN	+40	1.1	0.0068	PASS
			VN	+30	3.7	0.0229	PASS
			VN	+20	3.4	0.0210	PASS
			VN	+10	3.8	0.0235	PASS
			VN	0	1.3	0.0080	PASS
			VN	-10	2.2	0.0136	PASS
			VN	-20	2.2	0.0136	PASS
			VN	-30	2.7	0.0167	PASS
			VN	+50	1.0	0.0062	PASS
UL	TRTRA	MCH	VN	+40	2.4	0.0148	PASS
			VN	+30	2.8	0.0173	PASS
			VN	+20	2.2	0.0136	PASS
			VN	+10	3.2	0.0198	PASS
			VN	0	2.1	0.0130	PASS
			VN	-10	2.7	0.0167	PASS
			VN	-20	2.2	0.0136	PASS
			VN	-30	1.2	0.0074	PASS
			VN	+50	3.5	0.0216	PASS
			VN	+40	3.9	0.0241	PASS
FM	FM	MCH	VN	+30	1.2	0.0074	PASS
			VN	+20	3.8	0.0235	PASS
			VN	+10	3.8	0.0235	PASS
			VN	0	3.3	0.0204	PASS
			VN	-10	2.8	0.0173	PASS
			VN	-20	3.8	0.0235	PASS
			VN	-30	1.1	0.0068	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	2.2	0.0136	PASS
			VN	+40	1.8	0.0111	PASS
			VN	+30	1.9	0.0117	PASS
			VN	+20	3.8	0.0235	PASS
			VN	+10	3.8	0.0235	PASS
			VN	0	2.4	0.0148	PASS
			VN	-10	2.7	0.0167	PASS
			VN	-20	3.4	0.0210	PASS
			VN	-30	3.3	0.0204	PASS
UL	C4FM	MCH	VN	+50	3.1	0.0192	PASS
			VN	+40	3.3	0.0204	PASS
			VN	+30	2.4	0.0148	PASS
			VN	+20	1.6	0.0099	PASS
			VN	+10	2.2	0.0136	PASS
			VN	0	3.4	0.0210	PASS
			VN	-10	3.4	0.0210	PASS
			VN	-20	1.0	0.0062	PASS
			VN	-30	3.6	0.0223	PASS
UL	D-HQPSK	MCH	VN	+50	2.7	0.0167	PASS
			VN	+40	3.9	0.0241	PASS
			VN	+30	1.0	0.0062	PASS
			VN	+20	1.2	0.0074	PASS
			VN	+10	2.7	0.0167	PASS
			VN	0	3.8	0.0235	PASS
			VN	-10	1.1	0.0068	PASS
			VN	-20	2.2	0.0136	PASS
			VN	-30	1.8	0.0111	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	1.9	0.0117	PASS
			VN	+40	2.7	0.0167	PASS
			VN	+30	1.3	0.0080	PASS
			VN	+20	1.7	0.0105	PASS
			VN	+10	3.8	0.0235	PASS
			VN	0	1.9	0.0117	PASS
			VN	-10	2.7	0.0167	PASS
			VN	-20	1.3	0.0080	PASS
			VN	-30	1.7	0.0105	PASS



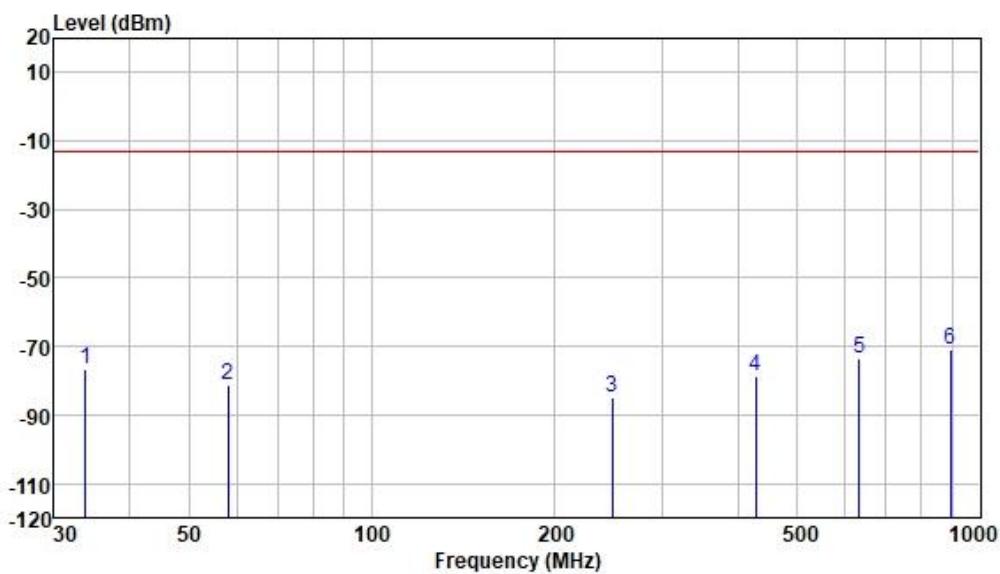
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## 10 Radiated Spurious emissions

### Radiated Spurious emissions

DL\_CW\_MCH\_30MHz-1GHz\_Horizontal



#### Remark:

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

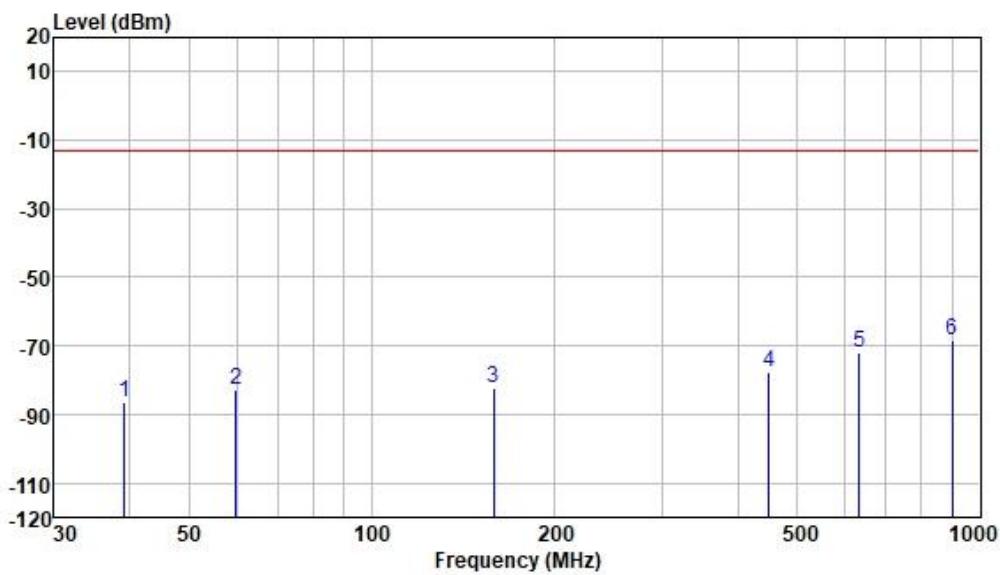


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## Radiated Spurious emissions

DL\_CW\_MCH\_30MHz-1GHz\_Vertical



Freq	Read	Correction	Limit	Over	Pol/Phase	
	Level	Factor	Level	Line		
	MHz	dBm	dB	dBm	dB	
1	39.16	-78.79	-7.83	-86.62	-13.00	-73.62 VERTICAL
2	59.65	-80.44	-2.21	-82.65	-13.00	-69.65 VERTICAL
3	158.67	-78.50	-3.94	-82.44	-13.00	-69.44 VERTICAL
4	449.56	-78.99	1.48	-77.51	-13.00	-64.51 VERTICAL
5	633.91	-76.44	4.58	-71.86	-13.00	-58.86 VERTICAL
6	900.15	-78.91	10.65	-68.26	-13.00	-55.26 VERTICAL

## Remark:

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

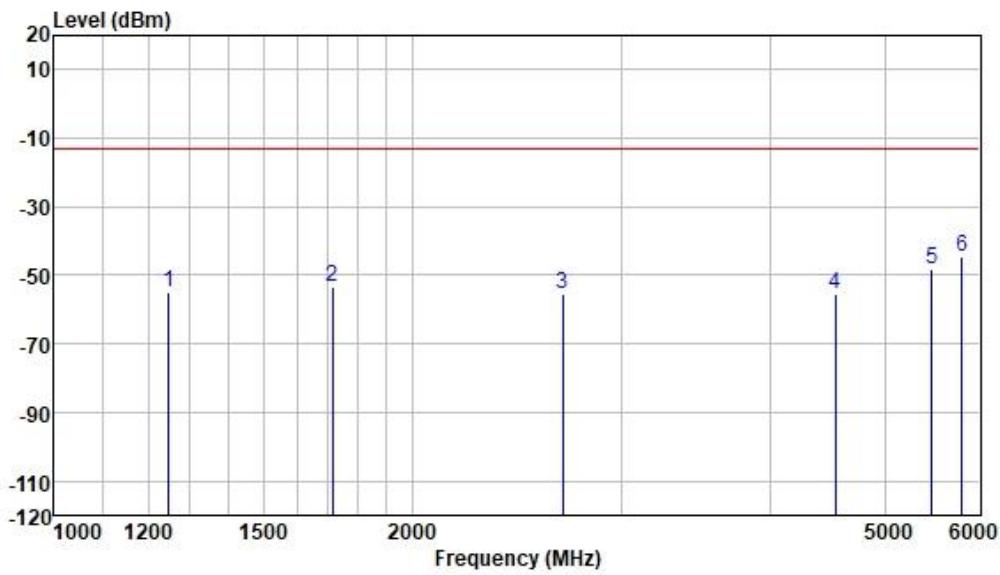


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## Radiated Spurious emissions

DL\_CW\_MCH\_above 1GHz\_Horizontal



Freq	Read	Correction	Limit	Over	Pol/Phase	
	Level	Factor	Level	Line		
	MHz	dBm	dB	dBm	dB	
1	1248.79	-58.97	3.94	-55.03	-13.00	-42.03 HORIZONTAL
2	1714.84	-59.57	6.31	-53.26	-13.00	-40.26 HORIZONTAL
3	2674.27	-60.26	4.84	-55.42	-13.00	-42.42 HORIZONTAL
4	4536.91	-62.01	6.53	-55.48	-13.00	-42.48 HORIZONTAL
5	5466.22	-62.22	14.17	-48.05	-13.00	-35.05 HORIZONTAL
6	5788.80	-59.99	15.33	-44.66	-13.00	-31.66 HORIZONTAL

## Remark:

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

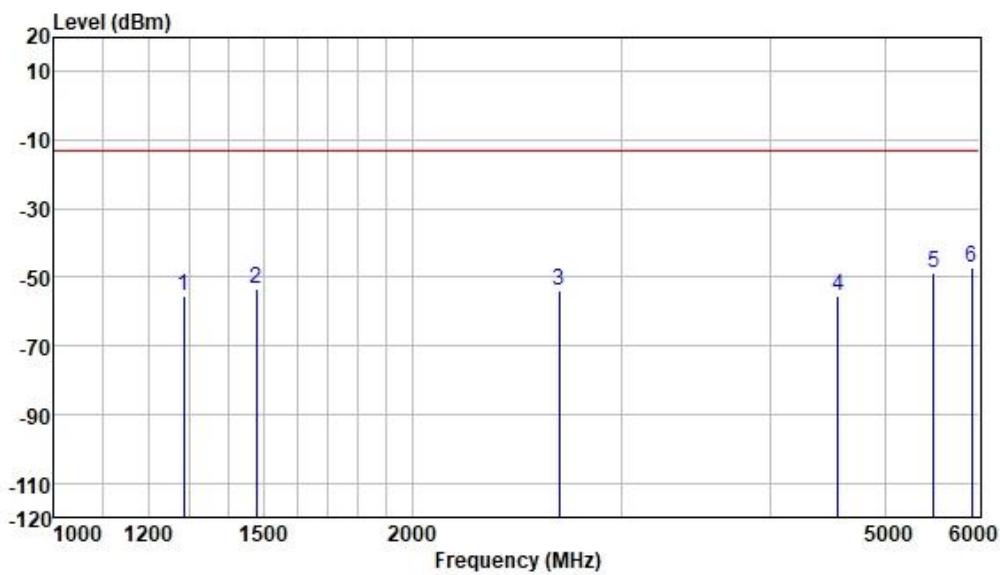


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## Radiated Spurious emissions

DL\_CW\_MCH\_above 1GHz\_Vertical



## Remark:

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

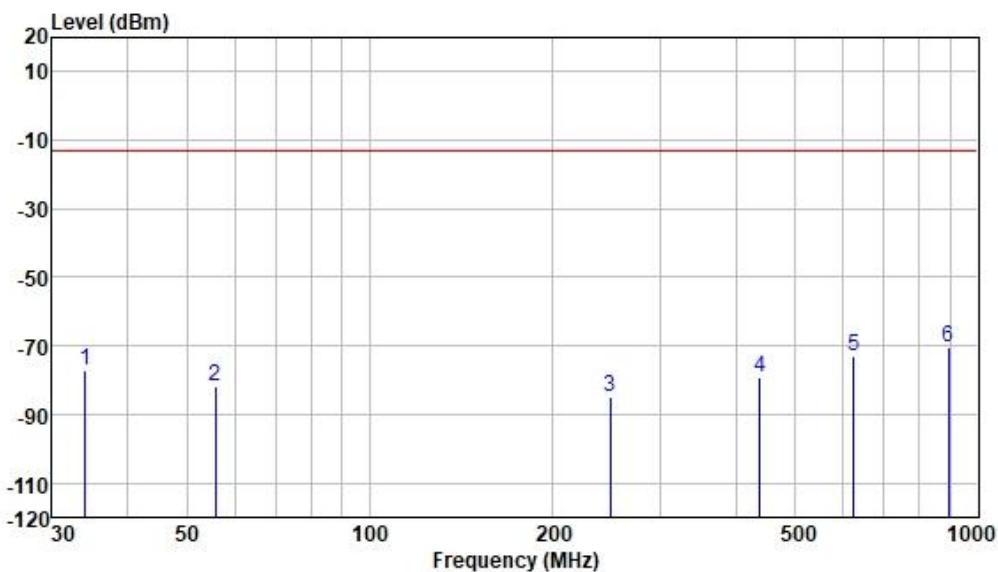


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## Radiated Spurious emissions

UL\_CW\_MCH\_30MHz-1GHz\_Horizontal



Freq	Read	Correction	Limit	Over	Pol/Phase	
	MHz	dBm	dB	dBm		
1	34.04	-80.20	2.95	-77.25	-13.00	-64.25 HORIZONTAL
2	55.61	-79.91	-2.06	-81.97	-13.00	-68.97 HORIZONTAL
3	248.55	-79.27	-5.56	-84.83	-13.00	-71.83 HORIZONTAL
4	437.12	-79.25	0.22	-79.03	-13.00	-66.03 HORIZONTAL
5	625.08	-76.25	3.43	-72.82	-13.00	-59.82 HORIZONTAL
6	893.86	-79.35	9.15	-70.20	-13.00	-57.20 HORIZONTAL

## Remark:

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

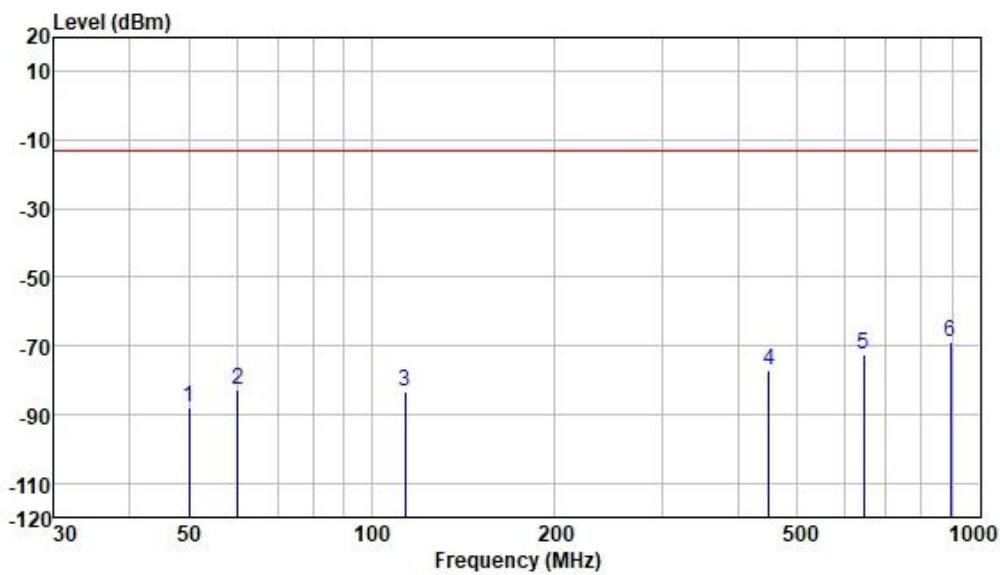


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## Radiated Spurious emissions

UL\_CW\_MCH\_30MHz-1GHz\_Vertical



Freq	Read	Correction	Limit	Over	Pol/Phase	
	Level	Factor	Level	Line		
	MHz	dBm	dB	dBm	dB	
1	50.06	-80.92	-6.81	-87.73	-13.00	-74.73 VERTICAL
2	60.07	-80.55	-2.10	-82.65	-13.00	-69.65 VERTICAL
3	113.32	-79.33	-4.21	-83.54	-13.00	-70.54 VERTICAL
4	449.56	-78.58	1.48	-77.10	-13.00	-64.10 VERTICAL
5	642.86	-76.94	4.66	-72.28	-13.00	-59.28 VERTICAL
6	893.86	-79.07	10.26	-68.81	-13.00	-55.81 VERTICAL

## Remark:

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

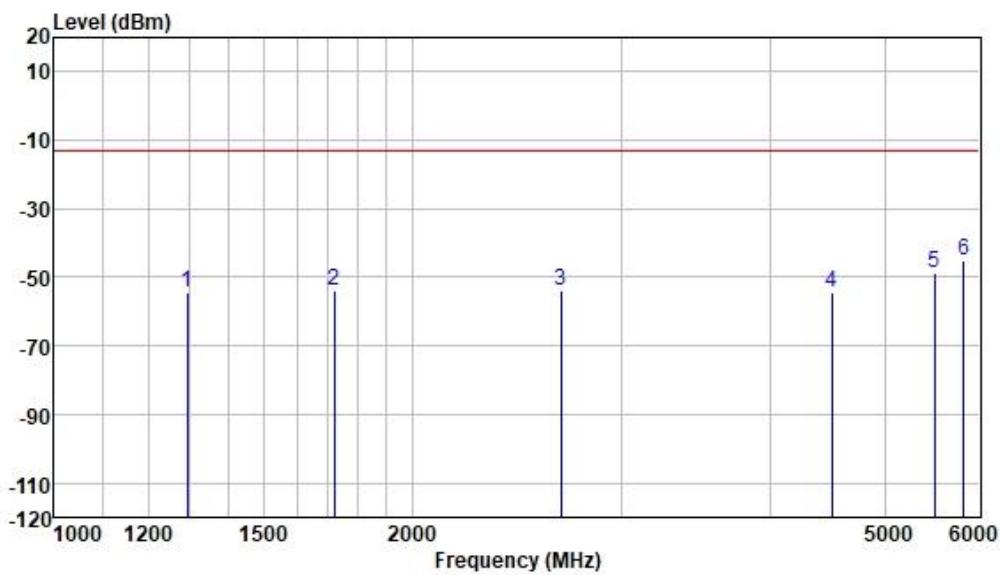


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## Radiated Spurious emissions

UL\_CW\_MCH\_above 1GHz\_Horizontal



Freq	Read	Correction	Limit	Over	Pol/Phase		
	MHz	dBm	dB	dBm			
1	1294.36	-58.56	3.98	-54.58	-13.00	-41.58	HORIZONTAL
2	1721.00	-59.90	6.28	-53.62	-13.00	-40.62	HORIZONTAL
3	2664.70	-59.04	4.96	-54.08	-13.00	-41.08	HORIZONTAL
4	4504.51	-60.69	6.13	-54.56	-13.00	-41.56	HORIZONTAL
5	5495.69	-63.12	14.53	-48.59	-13.00	-35.59	HORIZONTAL
6	5809.58	-60.24	15.38	-44.86	-13.00	-31.86	HORIZONTAL

## Remark:

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

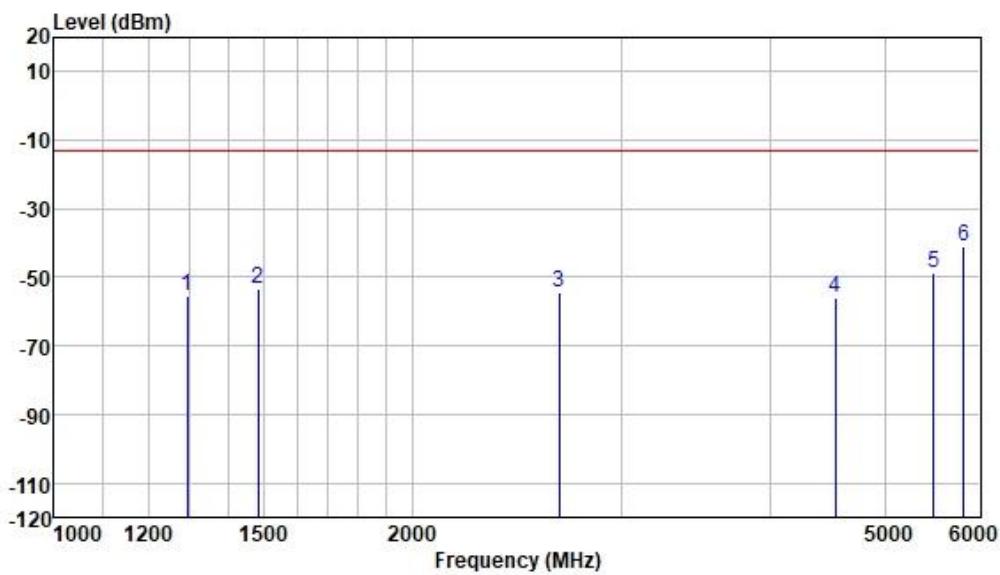


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## Radiated Spurious emissions

UL\_CW\_MCH\_above 1GHz\_Vertical



Freq	Read	Correction	Limit	Over	Pol/Phase		
	MHz	Level	Factor	Level		Line	Limit
	MHz	dBm	dB	dBm	dBm	dB	
1	1294.36	-59.88	4.32	-55.56	-13.00	-42.56	VERTICAL
2	1483.18	-59.71	6.60	-53.11	-13.00	-40.11	VERTICAL
3	2655.17	-59.73	5.36	-54.37	-13.00	-41.37	VERTICAL
4	4536.91	-62.43	6.31	-56.12	-13.00	-43.12	VERTICAL
5	5485.85	-62.92	14.42	-48.50	-13.00	-35.50	VERTICAL
6	5809.58	-57.12	15.99	-41.13	-13.00	-28.13	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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