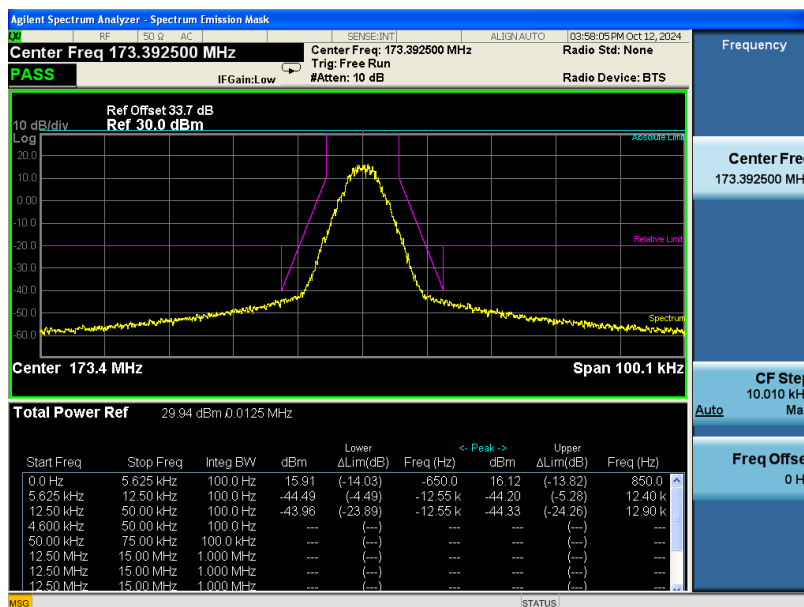
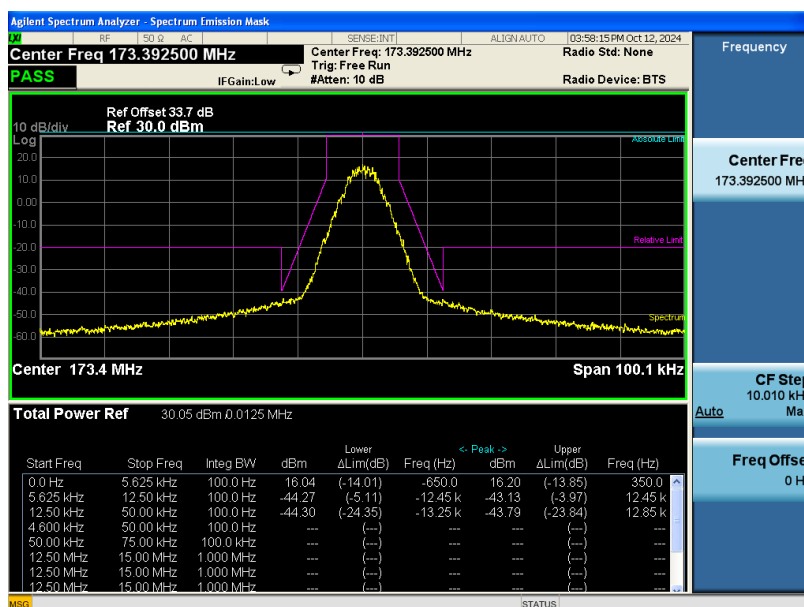


Emission Masks

DL_DMR_HCH_Pre-AGC

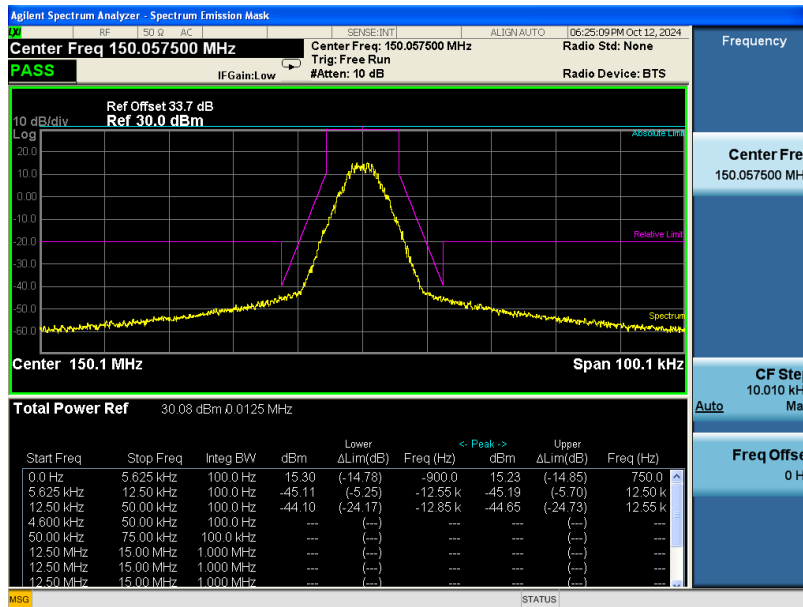


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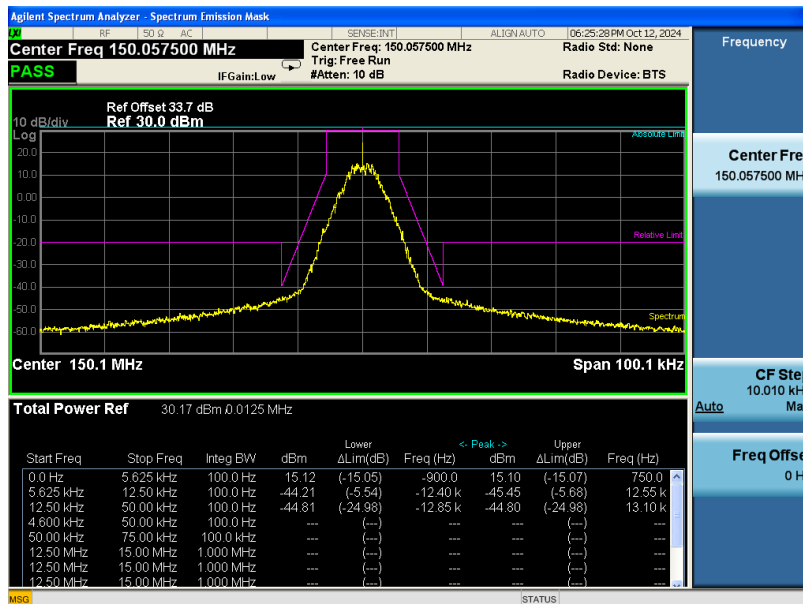


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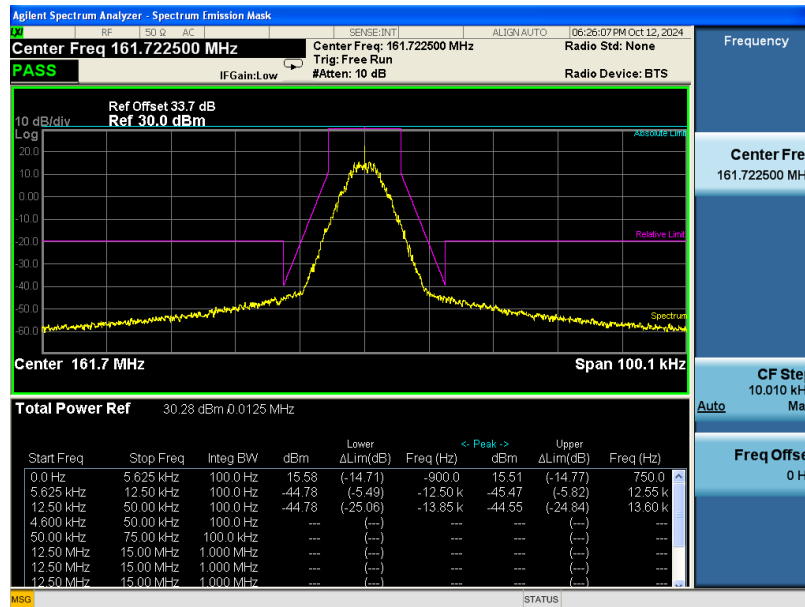


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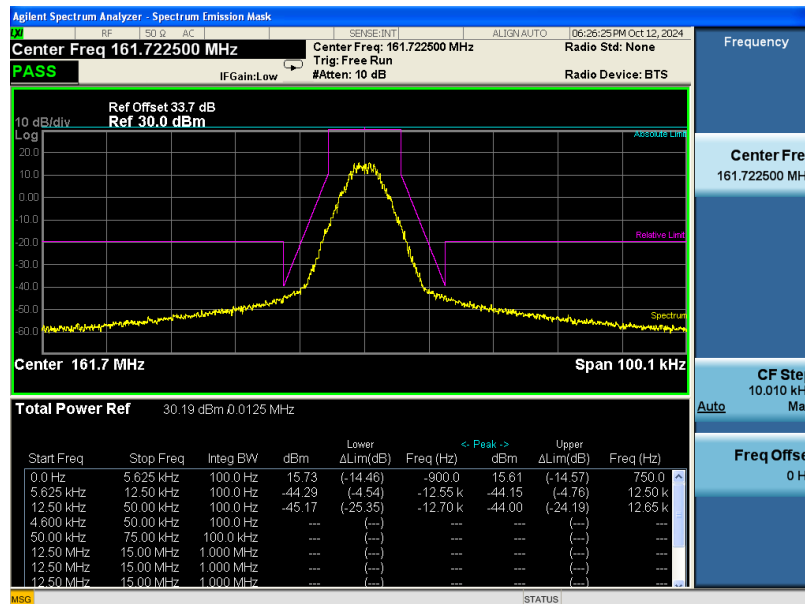


Emission Masks

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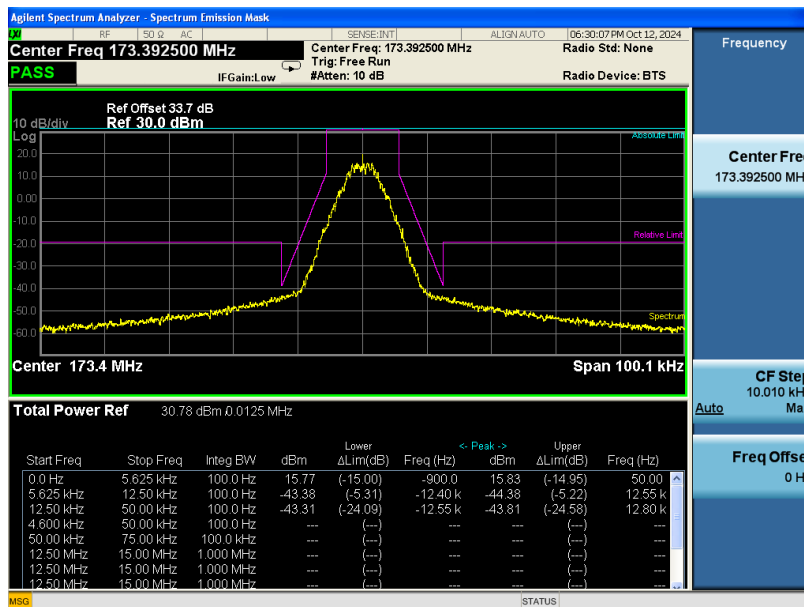


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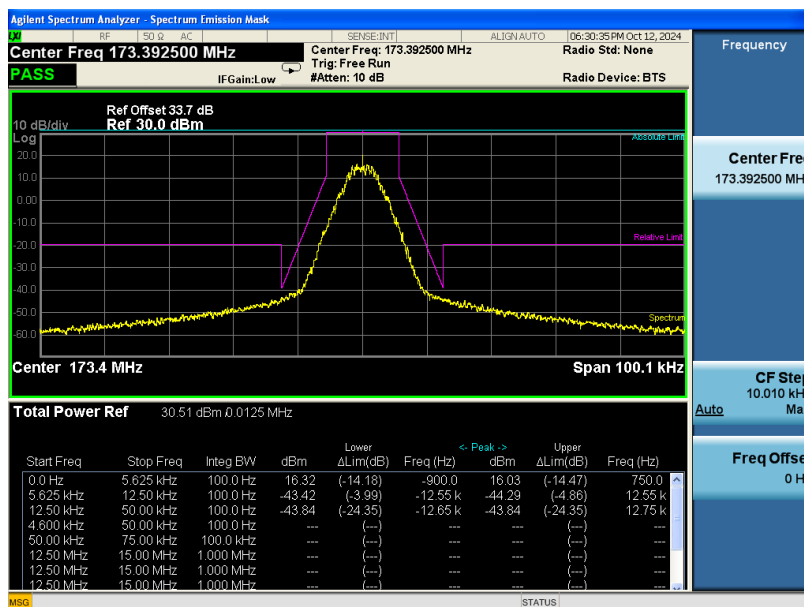


Emission Masks

DL_C4FM_HCH_Pre-AGC



DL_C4FM_HCH_3dB above AGC

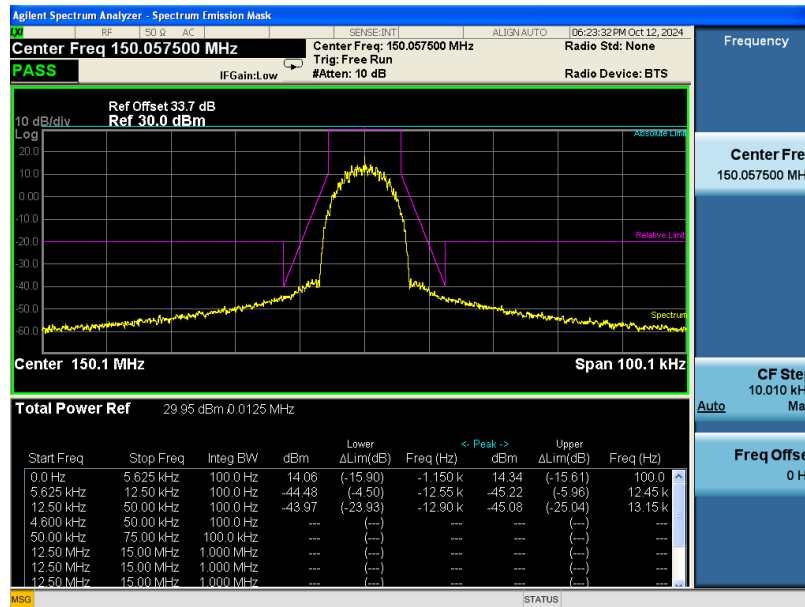


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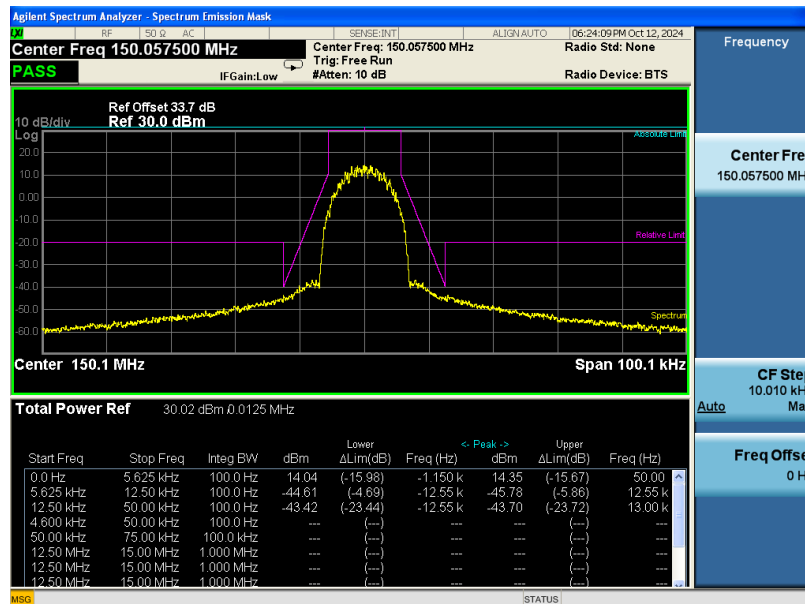
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Emission Masks

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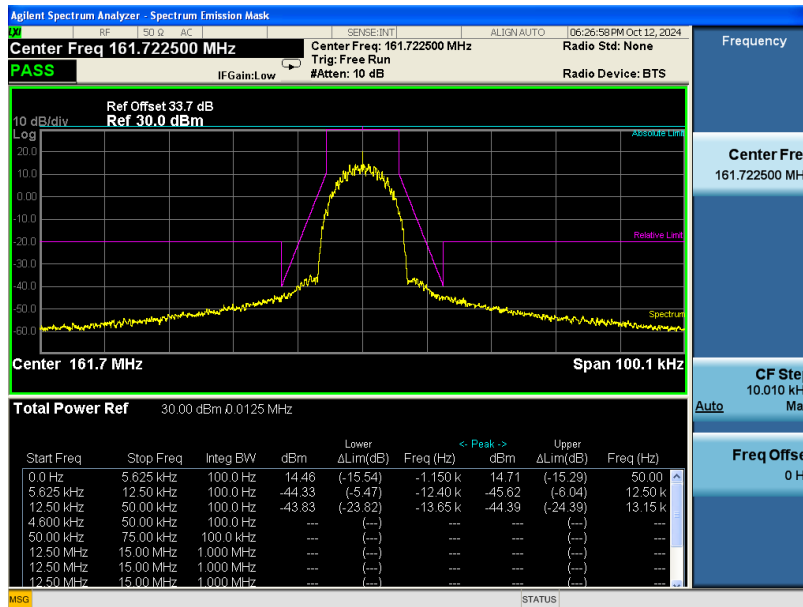


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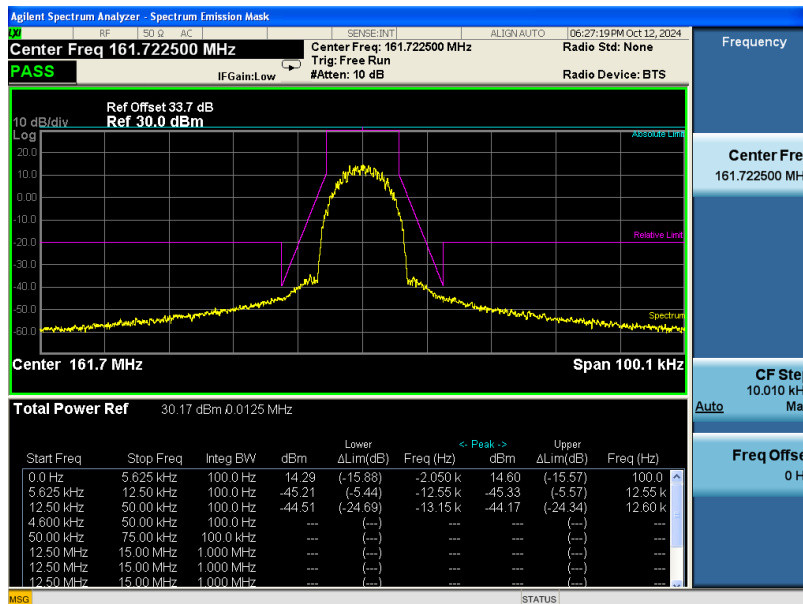


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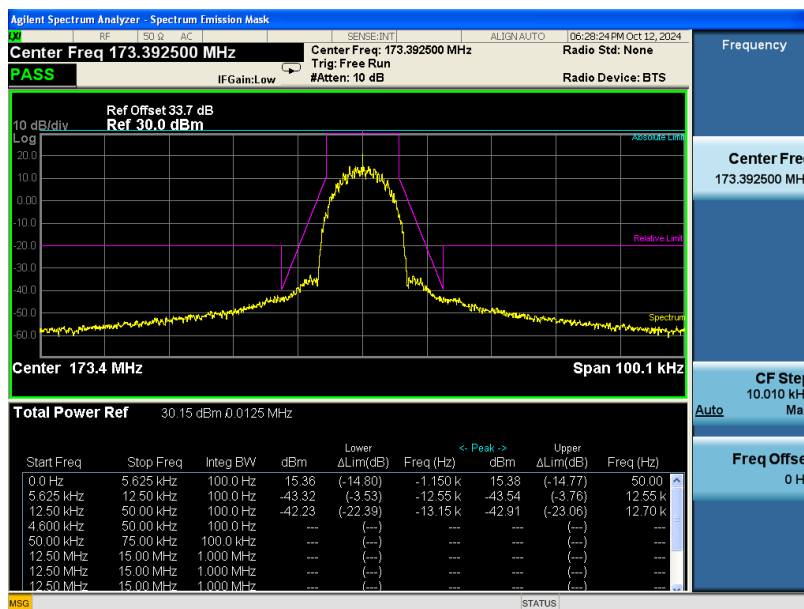


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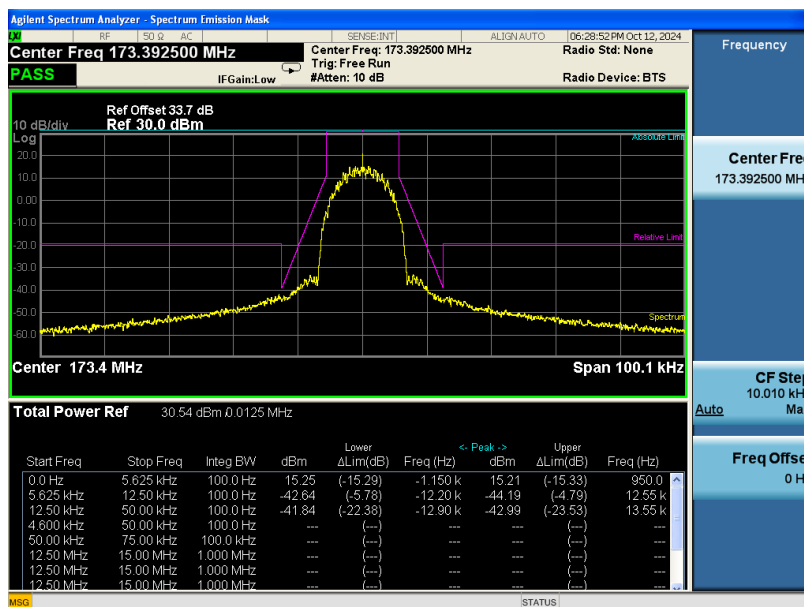


Emission Masks

DL_H-DQPSK_HCH_Pre-AGC



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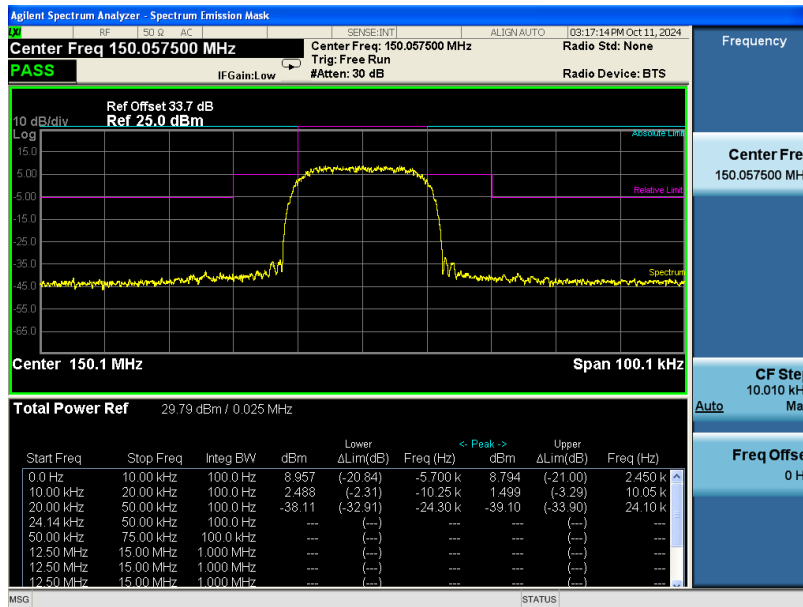


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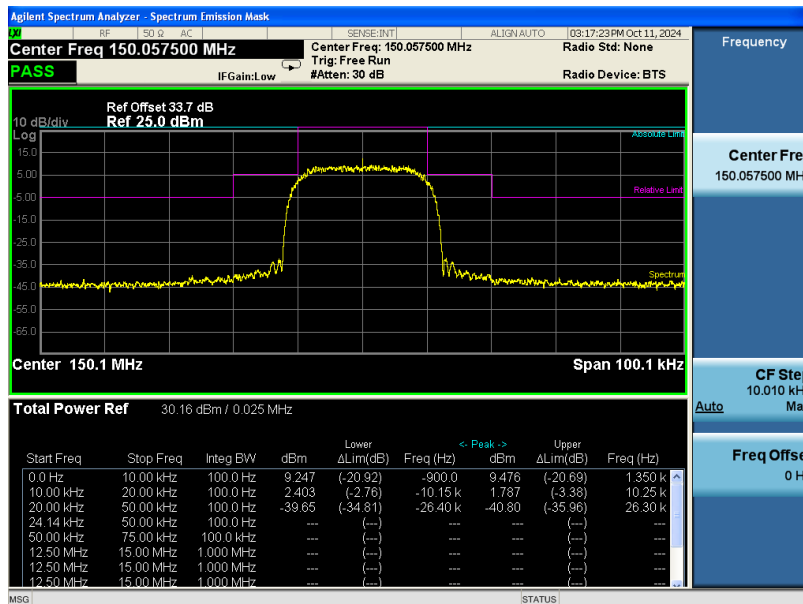
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Emission Masks

DL_TETRA_LCH_Pre-AGC

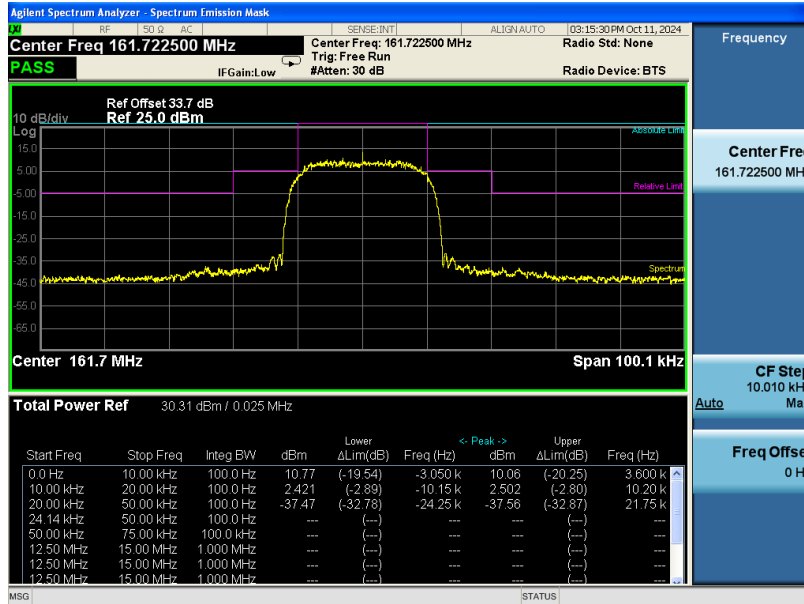


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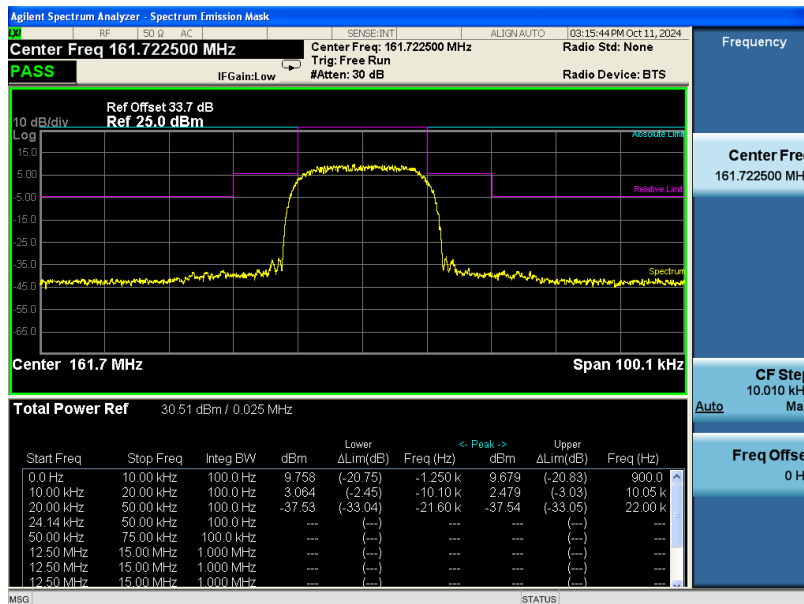


Emission Masks

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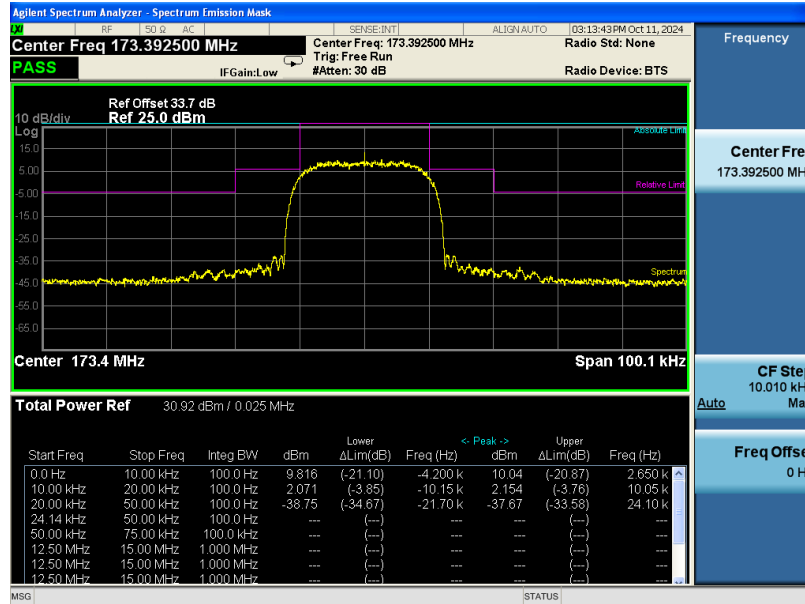


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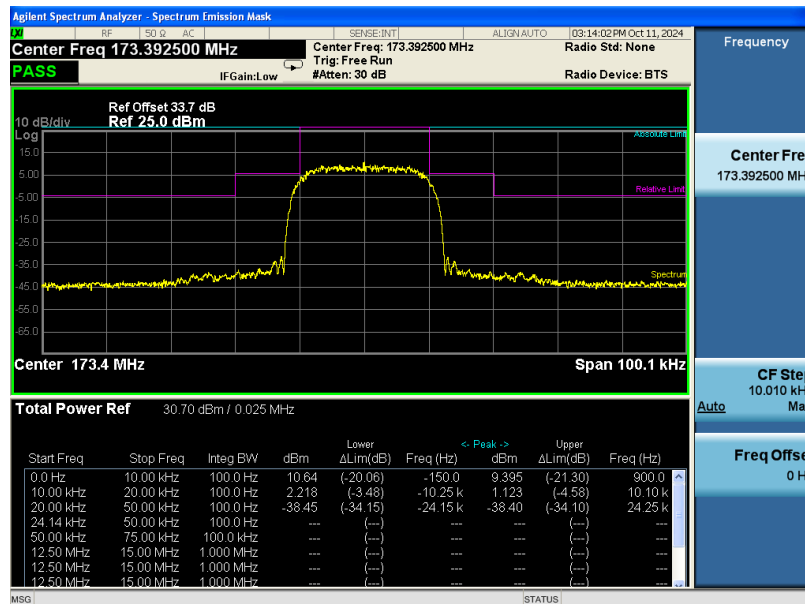


Emission Masks

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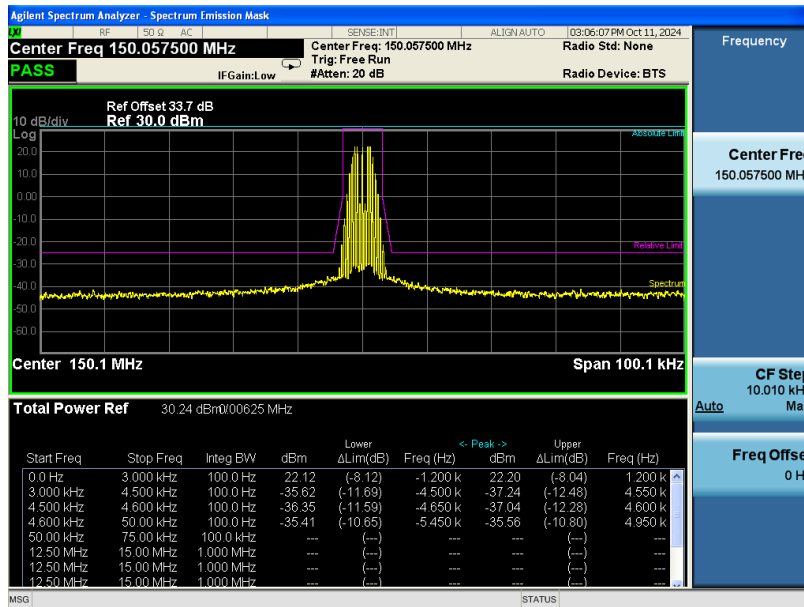


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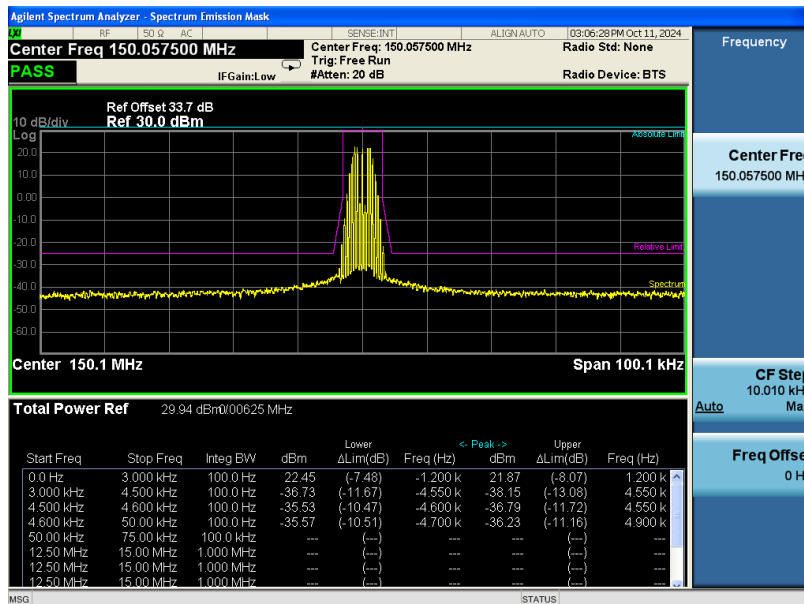


Emission Masks

UL_FM_LCH_Pre-AGC



UL_FM_LCH_3dB above AGC



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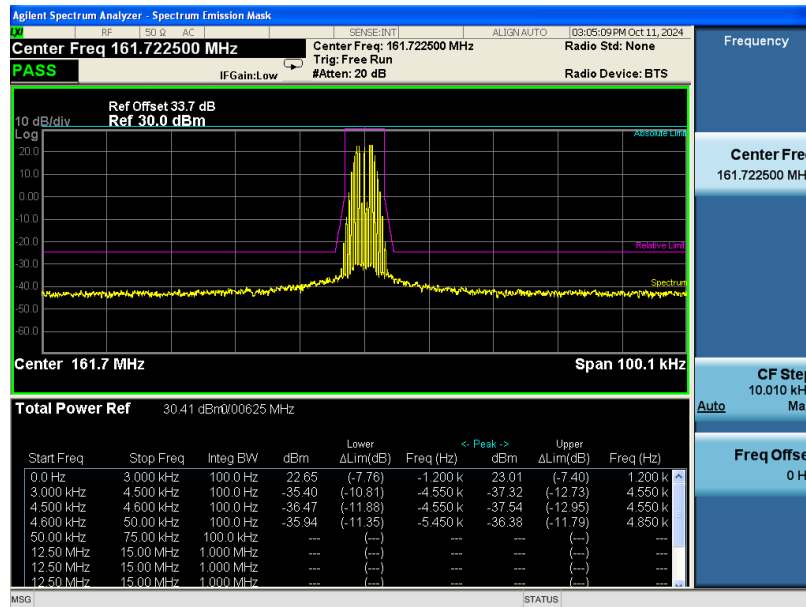
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Guangzhou Branch Testing & Calibration Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
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

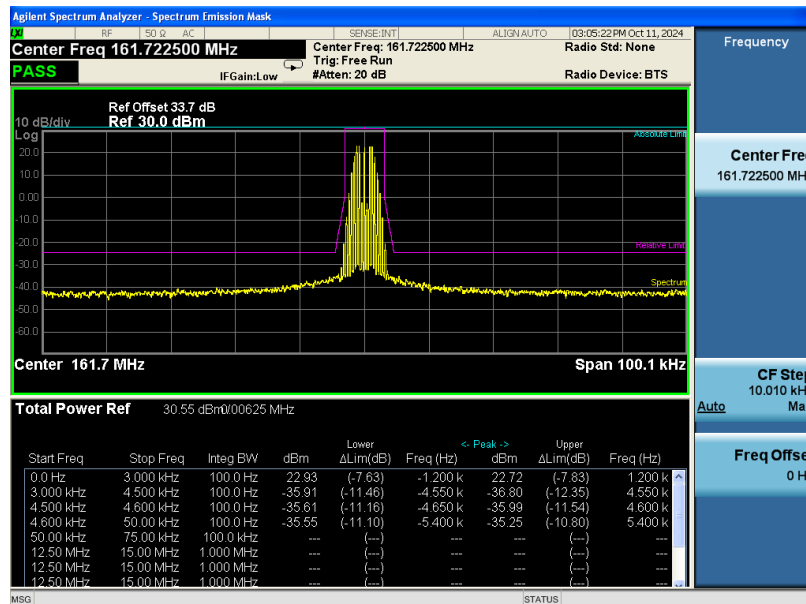
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t (86-20) 82155555 sgs.china@sgs.com

Emission Masks

UL_FM_MCH_Pre-AGC

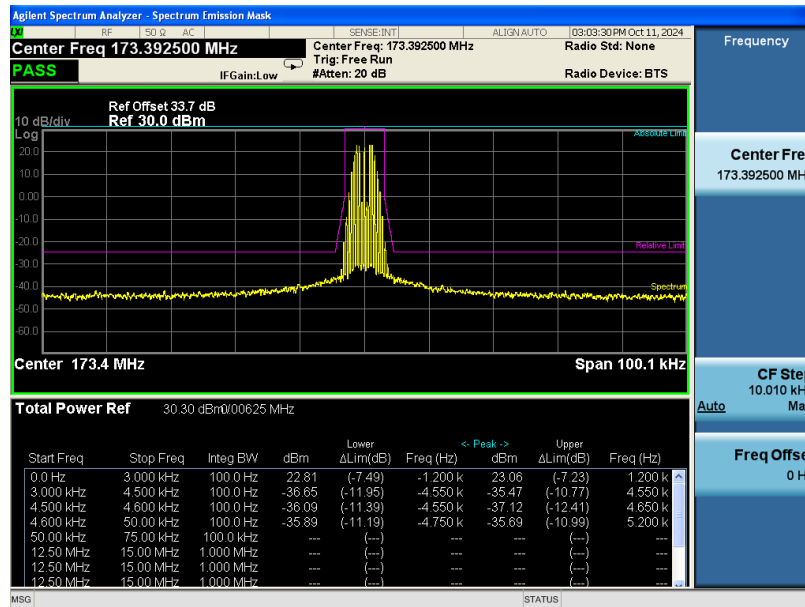


UL_FM_MCH_3dB above AGC

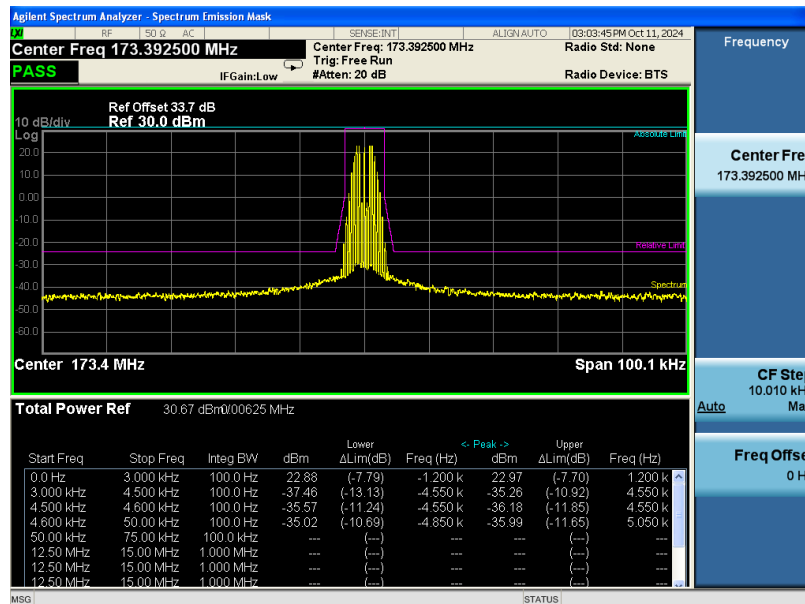


Emission Masks

UL_FM_HCH_Pre-AGC

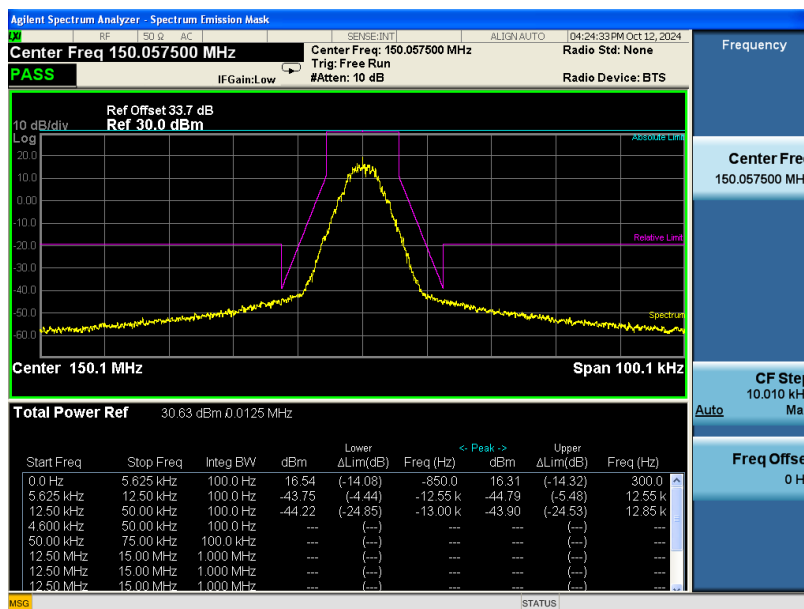


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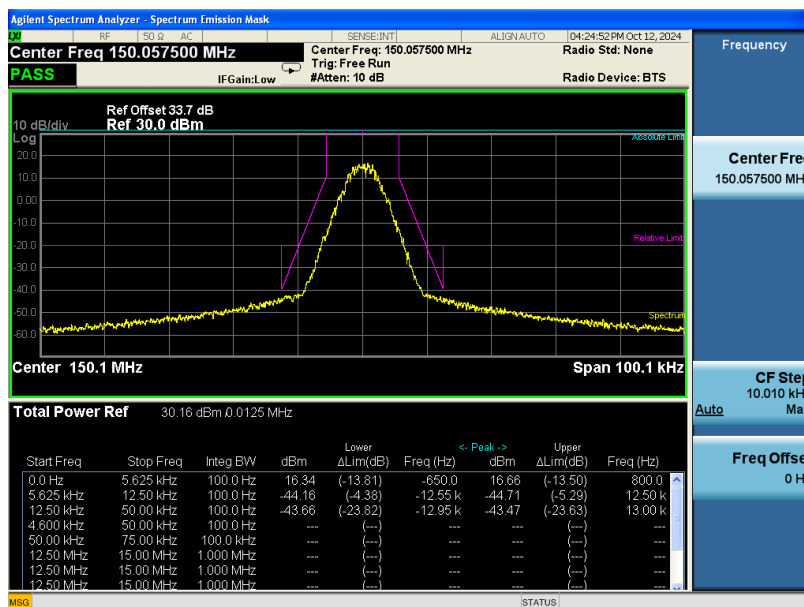


Emission Masks

UL_DMR_LCH_Pre-AGC

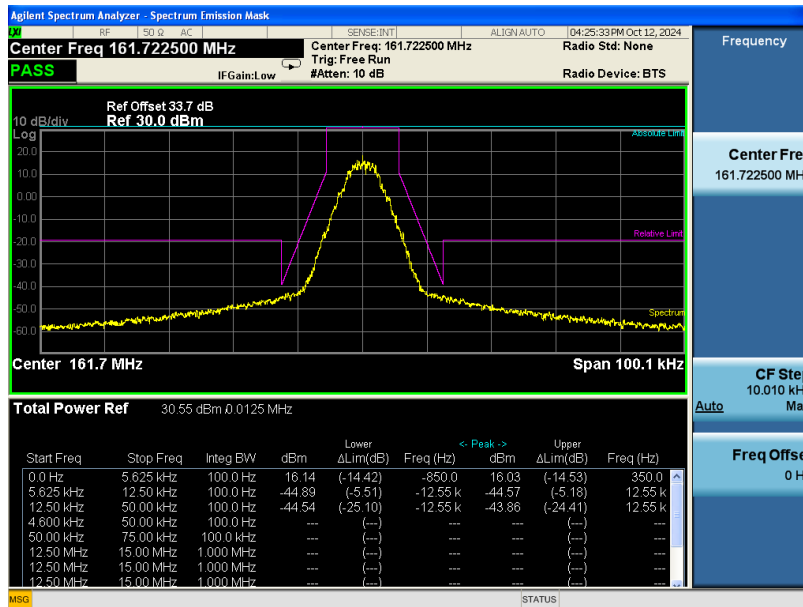


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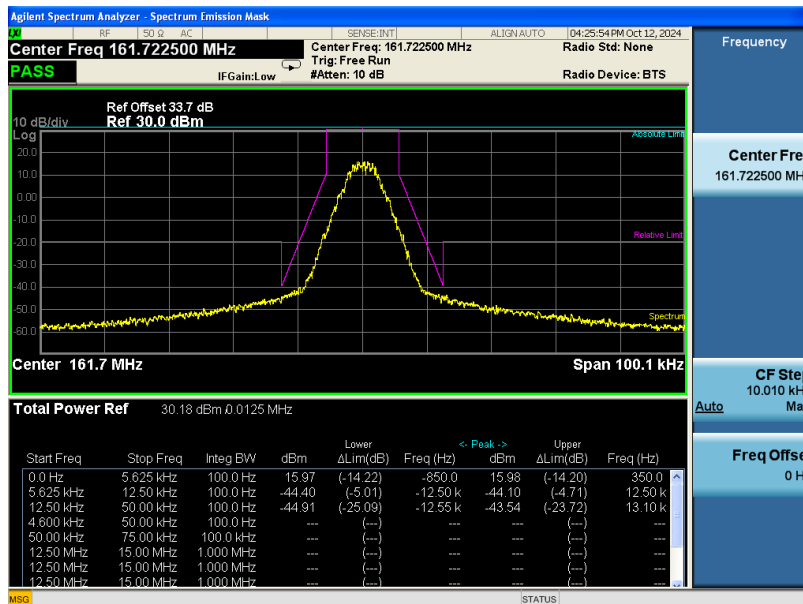


Emission Masks

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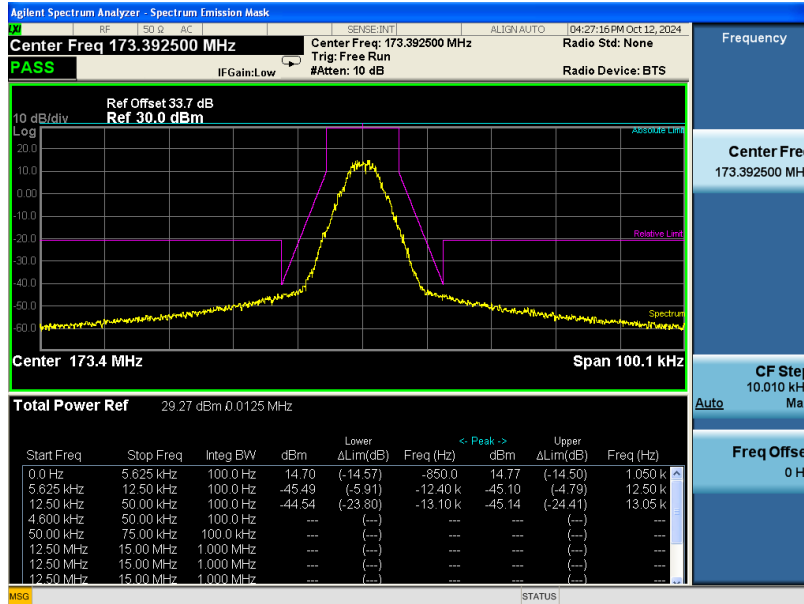


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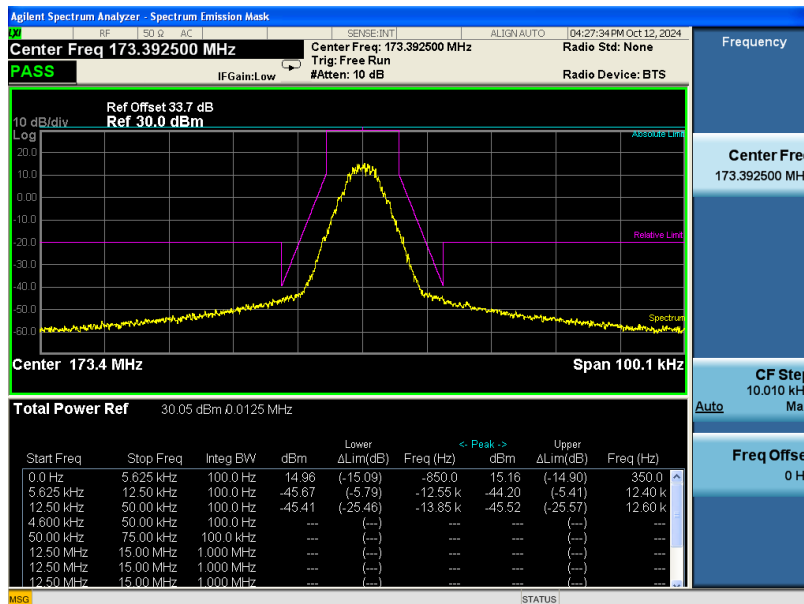


Emission Masks

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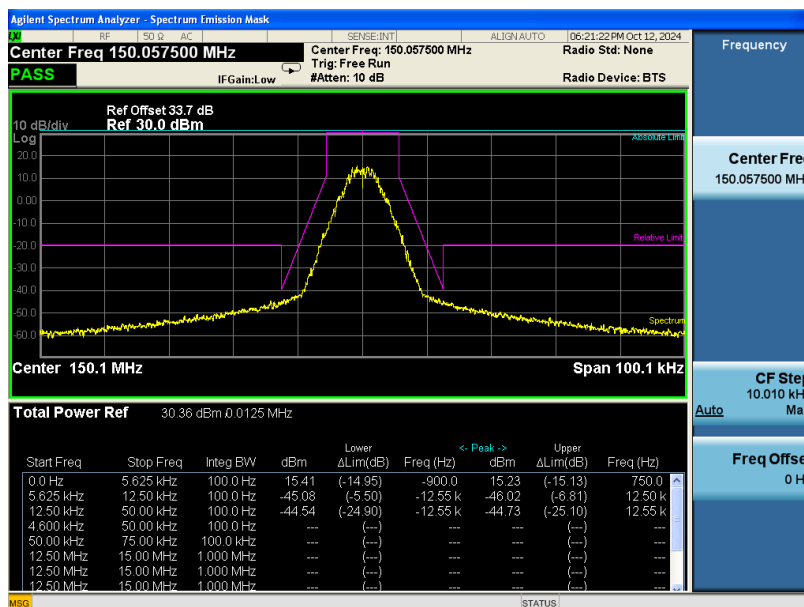


UL_DMR_HCH_3dB above AGC

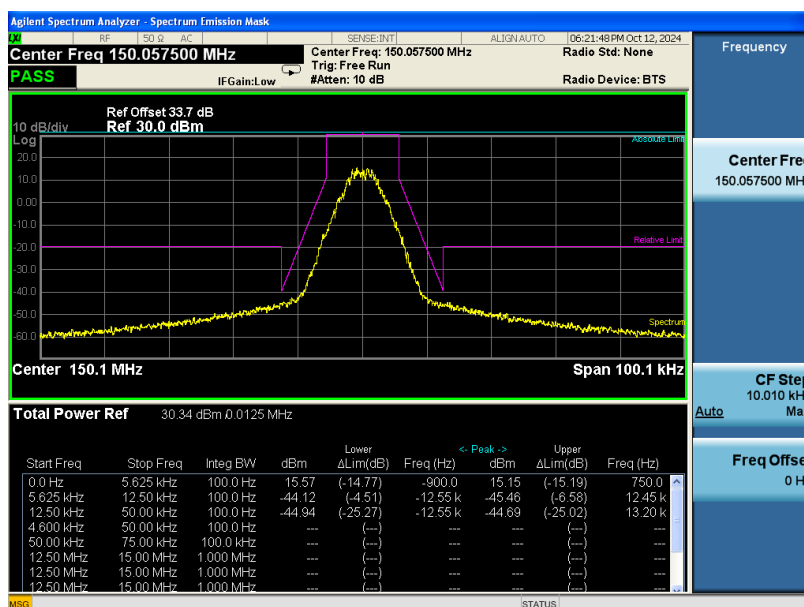


Emission Masks

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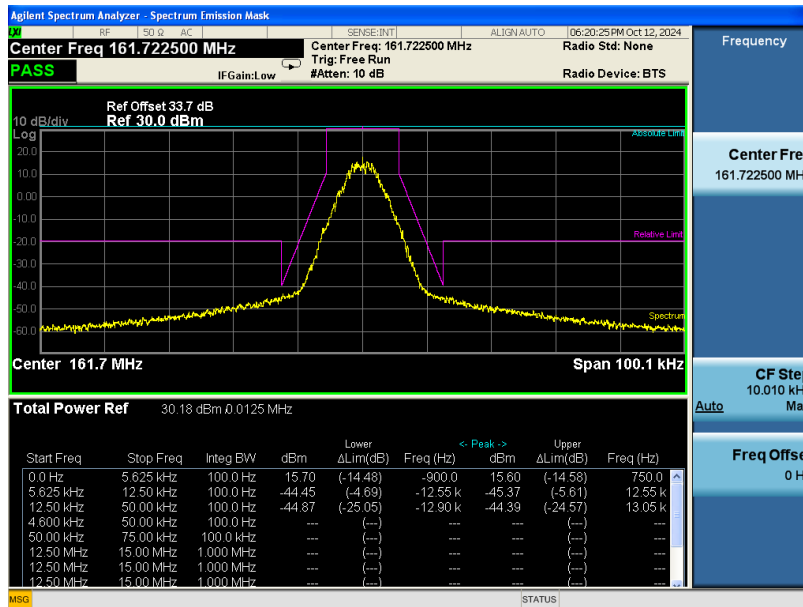


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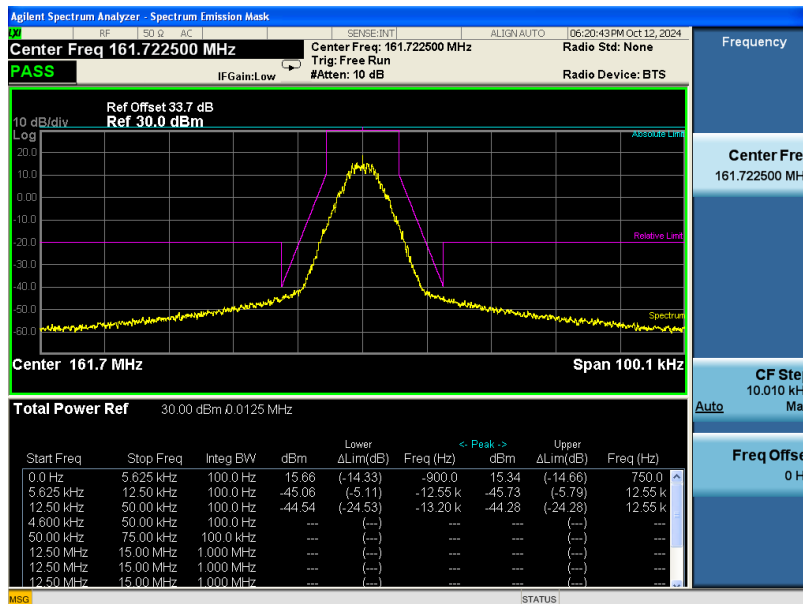


Emission Masks

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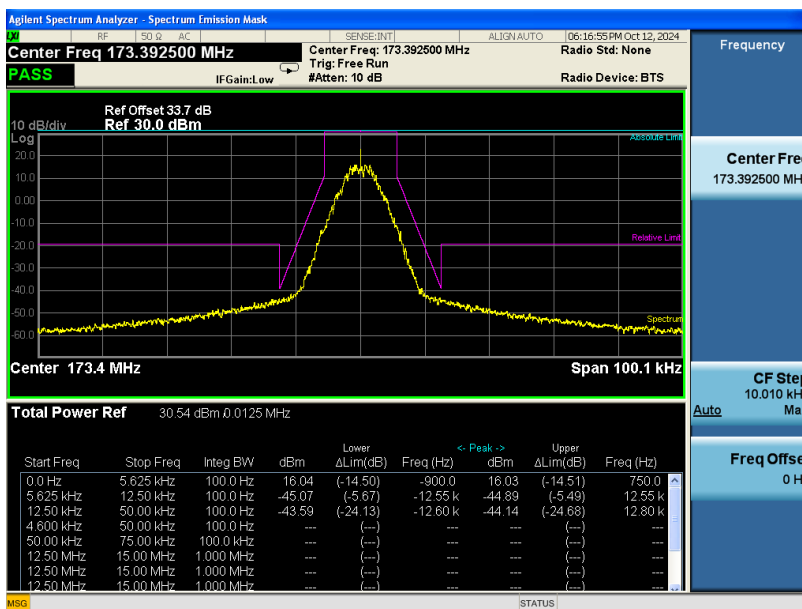


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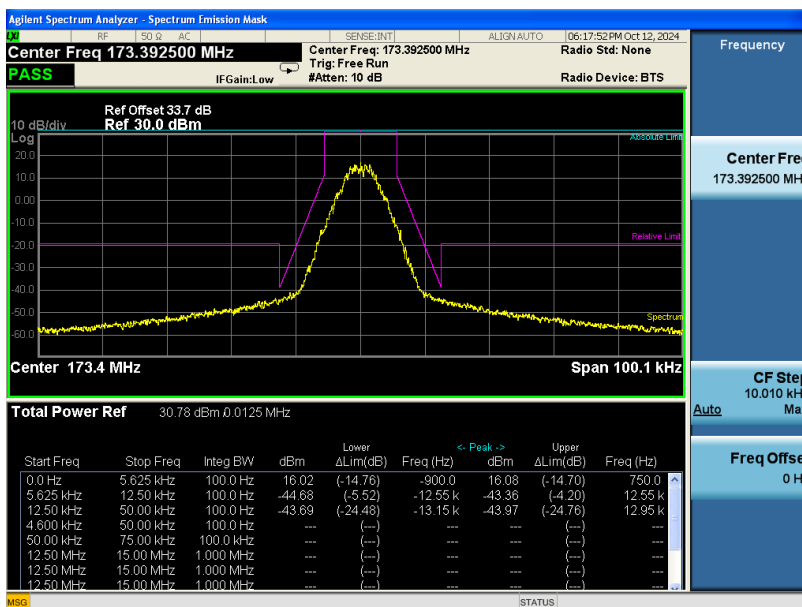


Emission Masks

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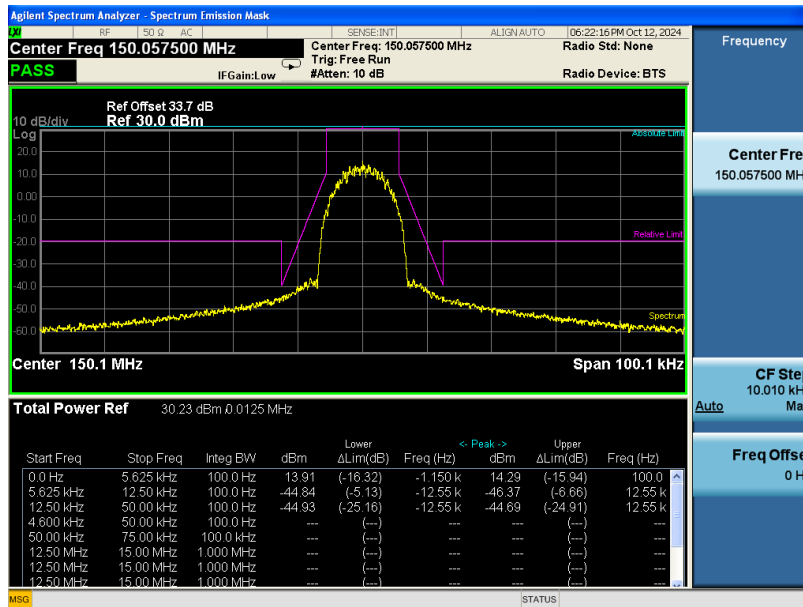


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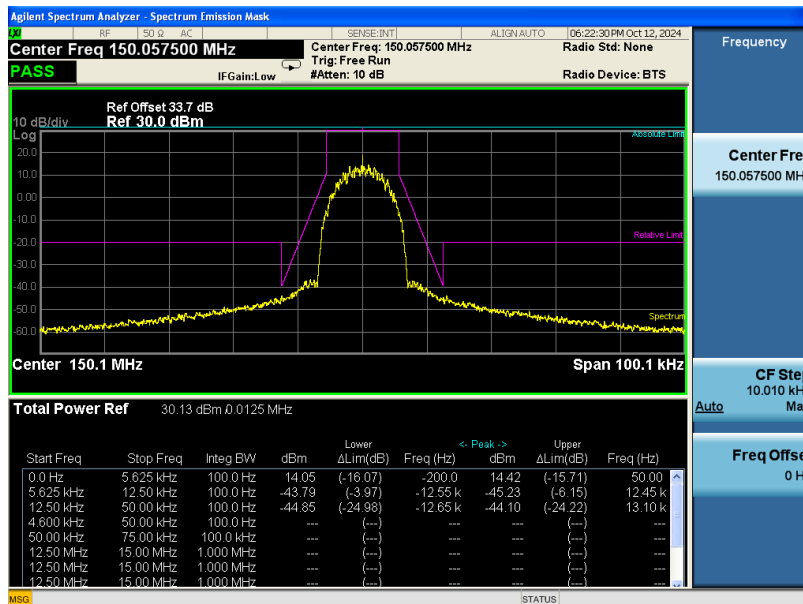


Emission Masks

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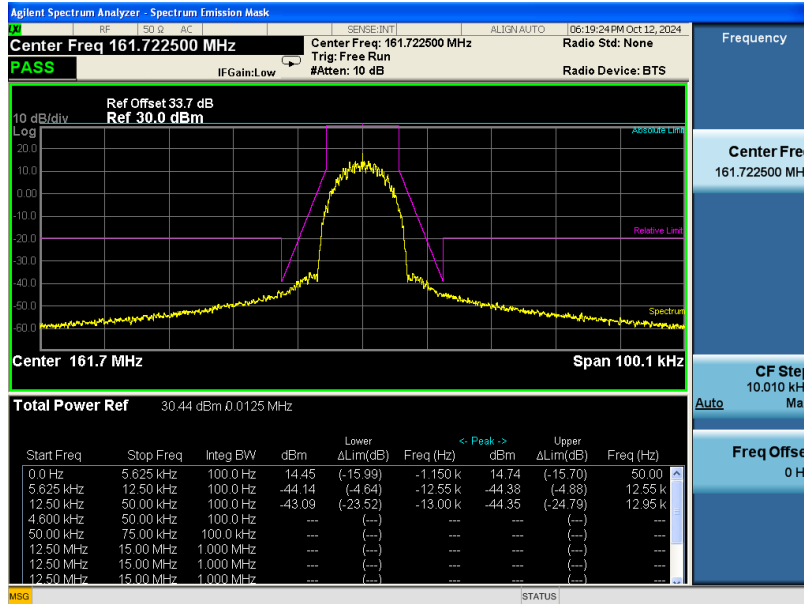


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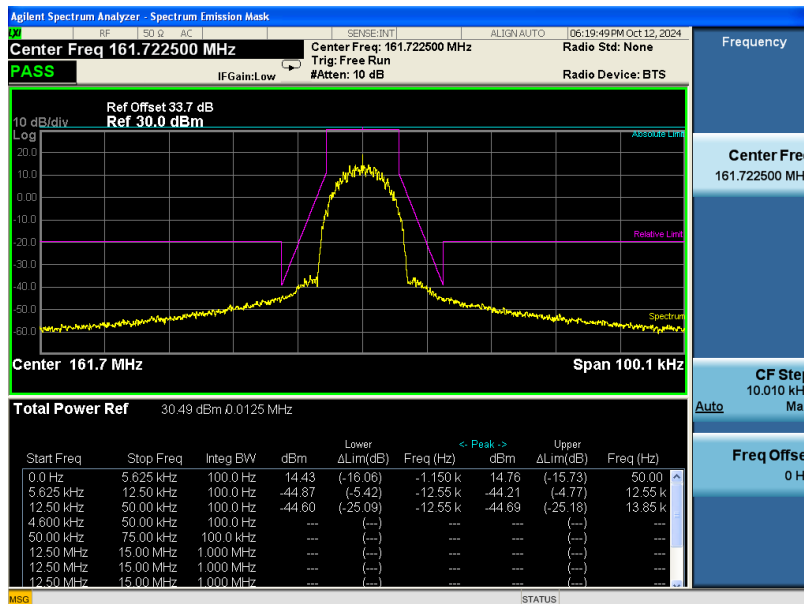


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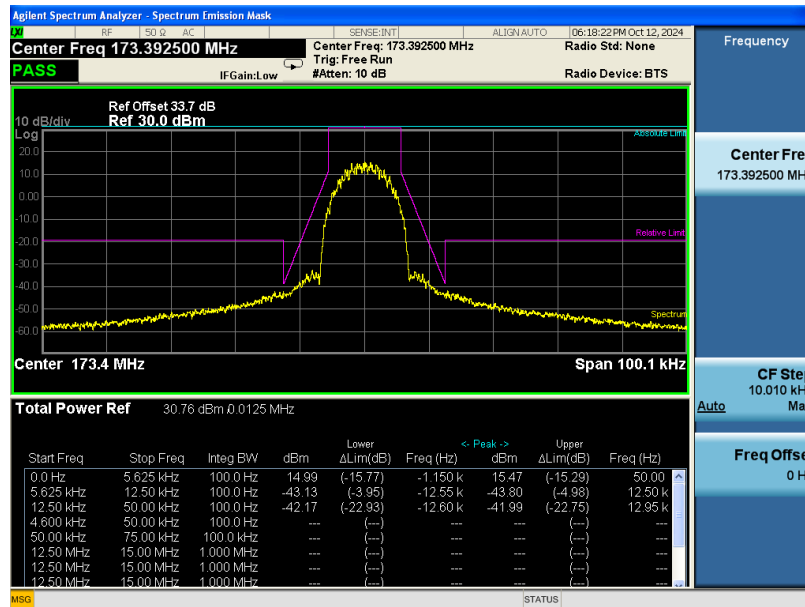


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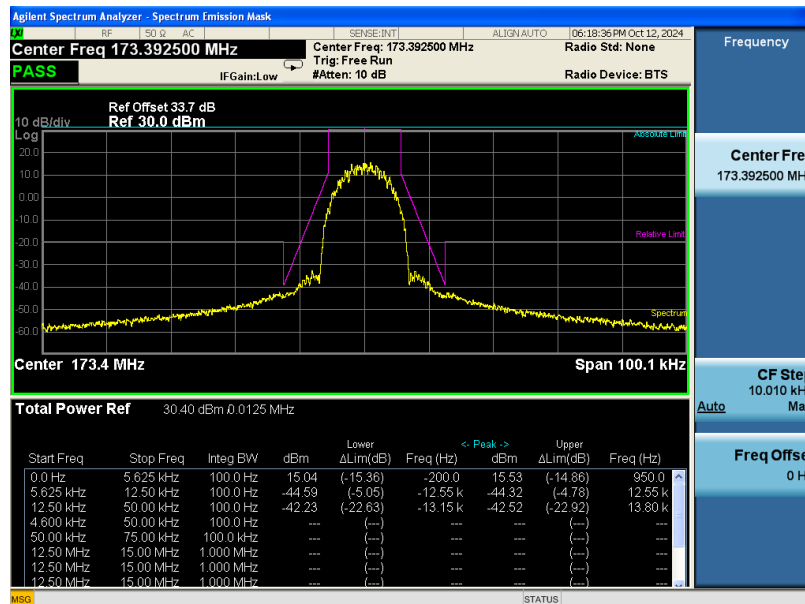


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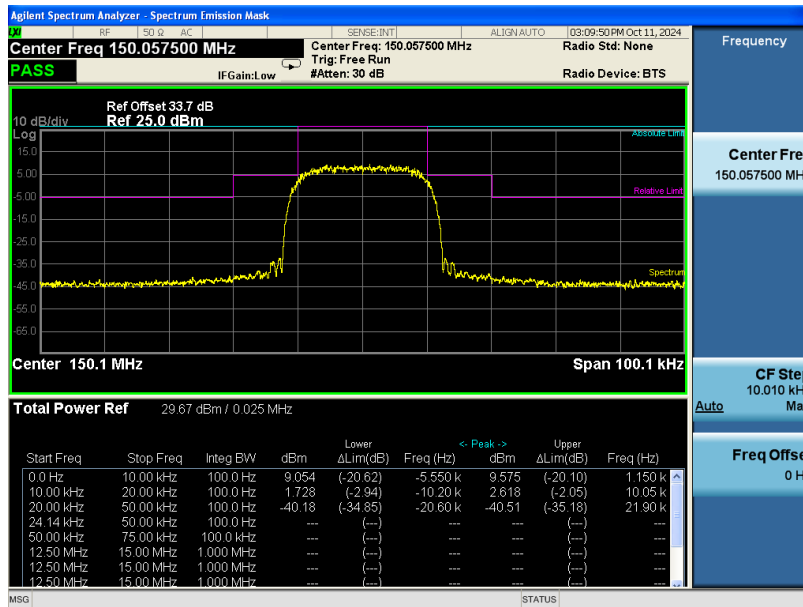


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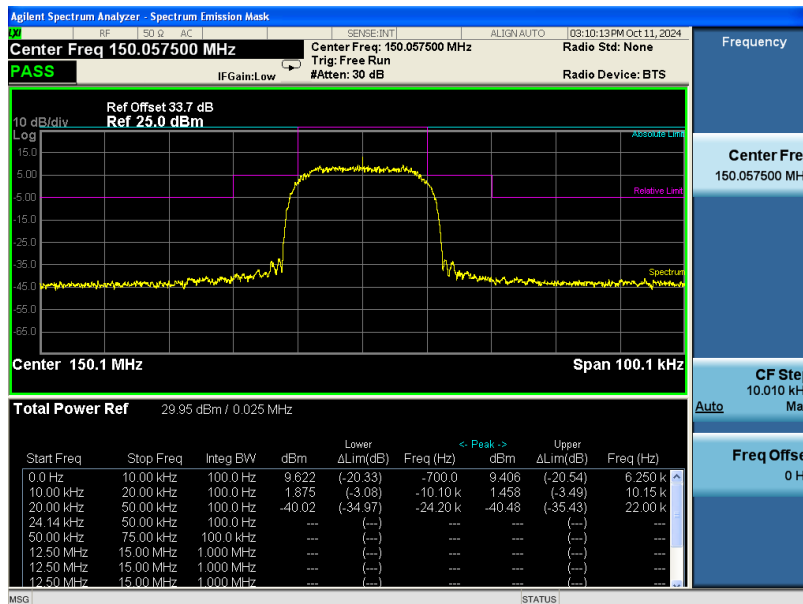


Emission Masks

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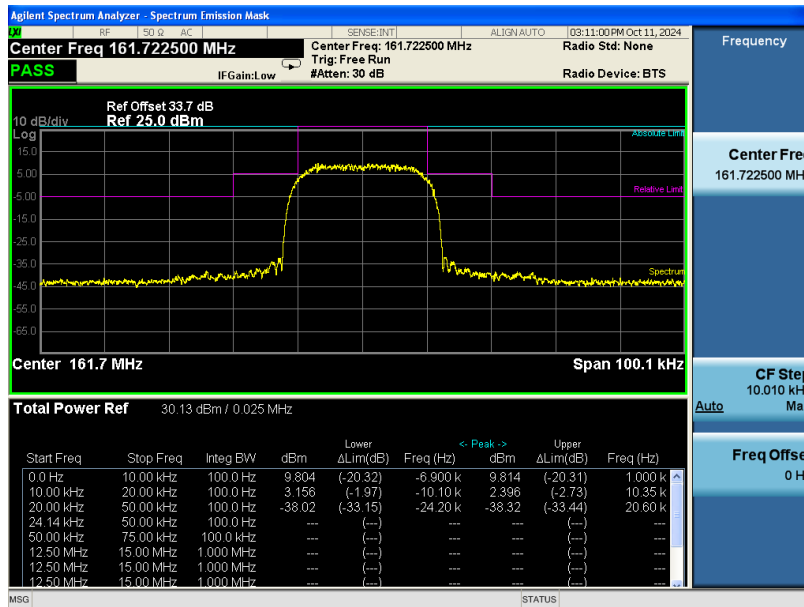


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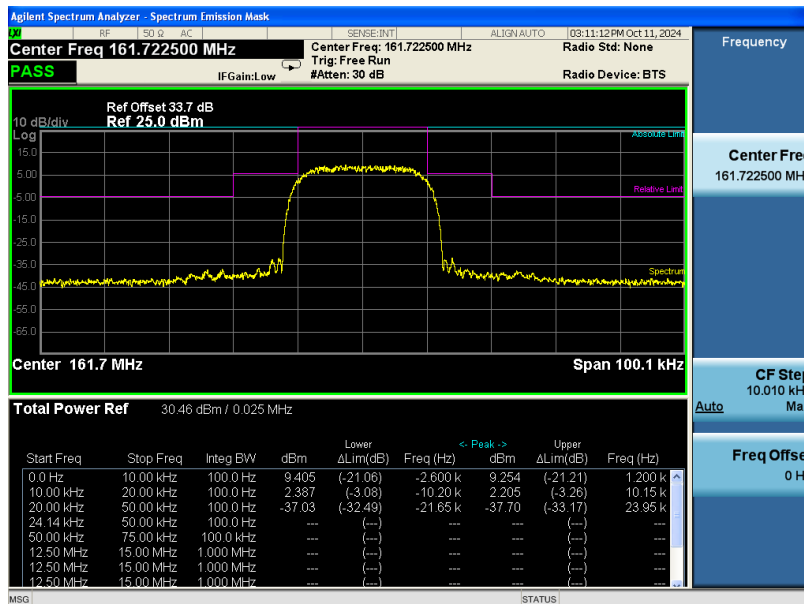


Emission Masks

UL_TETRA_MCH_Pre-AGC

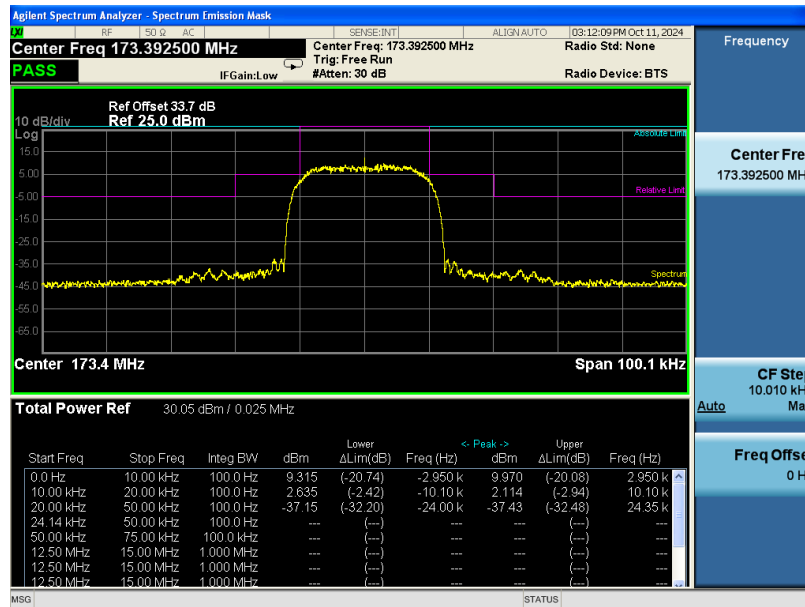


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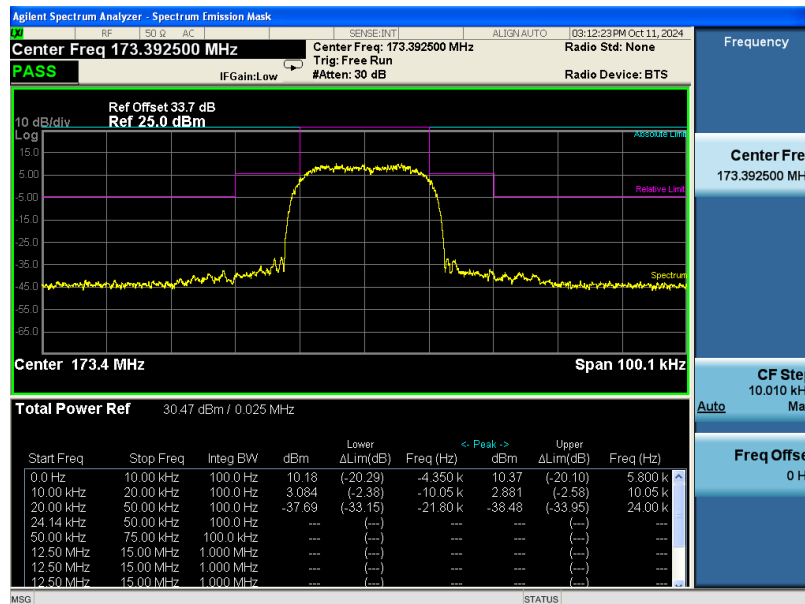


Emission Masks

UL_TETRA_HCH_Pre-AGC



UL_TETRA_HCH_3dB above AGC



5 Noise Figure

Noise Figure			
Test path	Noise figure (dB)	Limit (dB)	Verdict
DL	6.79	≤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:

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

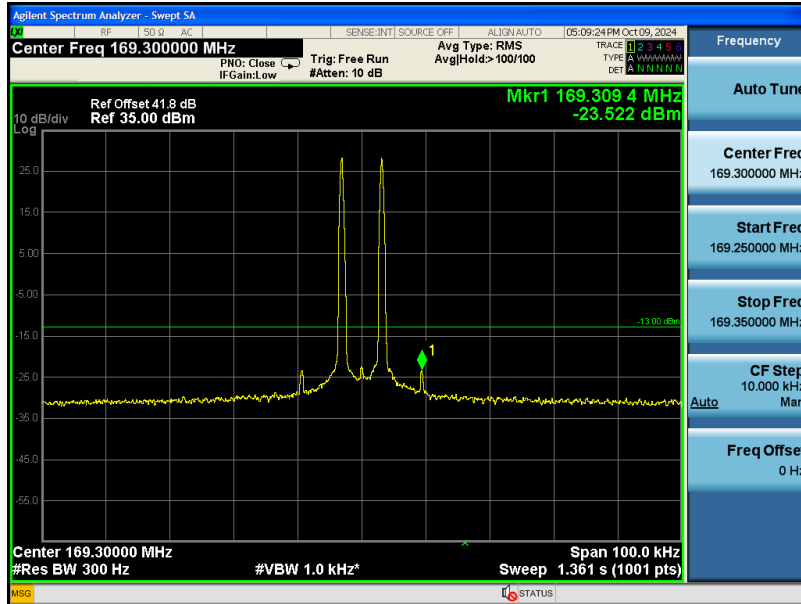


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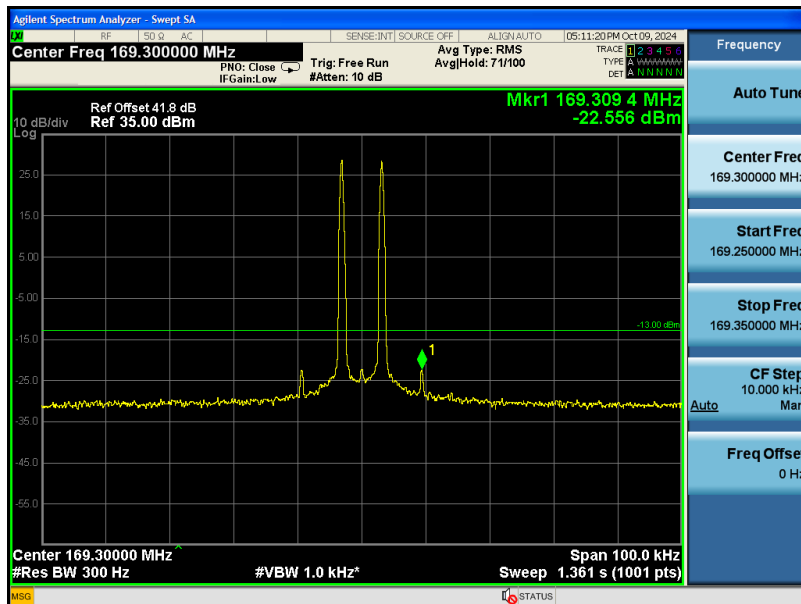
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Intermodulation

DL_6.25kHz_Pre-AGC



DL_6.25kHz_3dB above AGC



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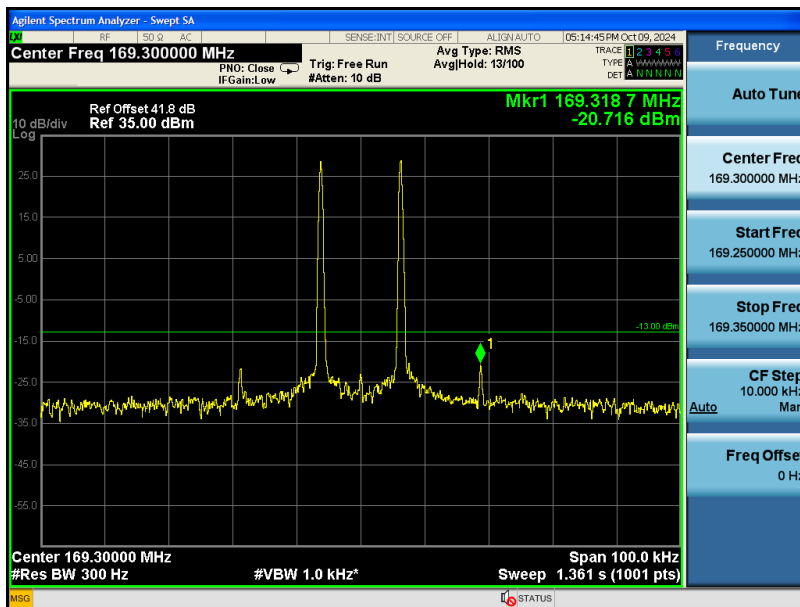
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Guangzhou Branch, Inspection & Testing Services

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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

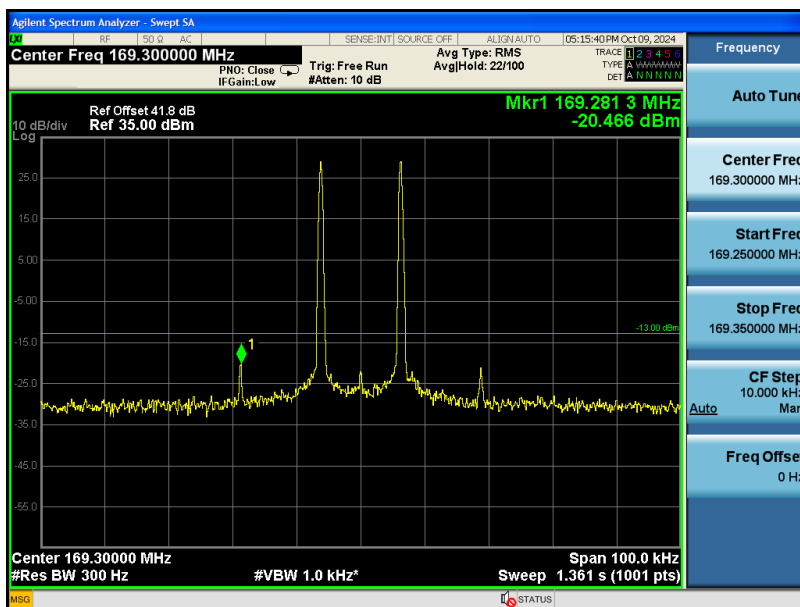
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t (86-20) 82155555 sgs.china@sgs.com

Intermodulation

DL_12.5kHz_Pre-AGC



DL_12.5kHz_3dB above AGC

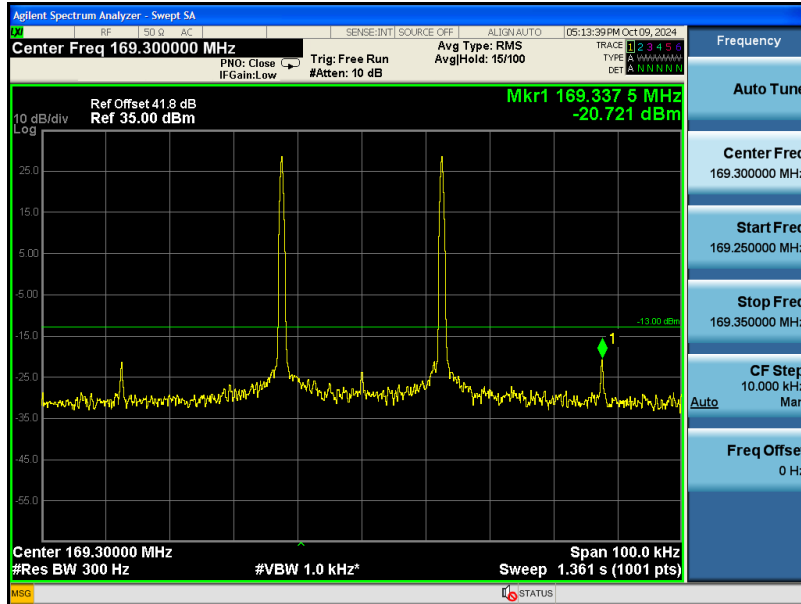


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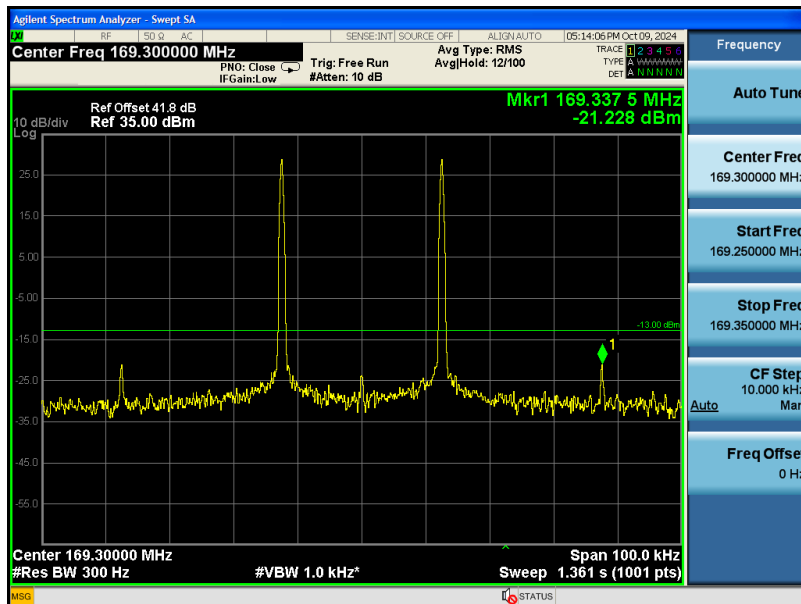
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Intermodulation

DL_25kHz_Pre-AGC

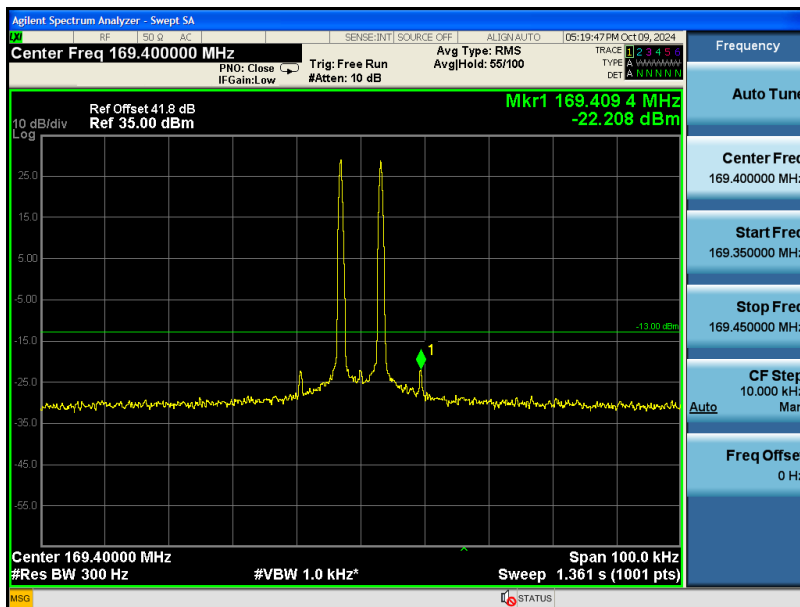


DL_25kHz_3dB above AGC

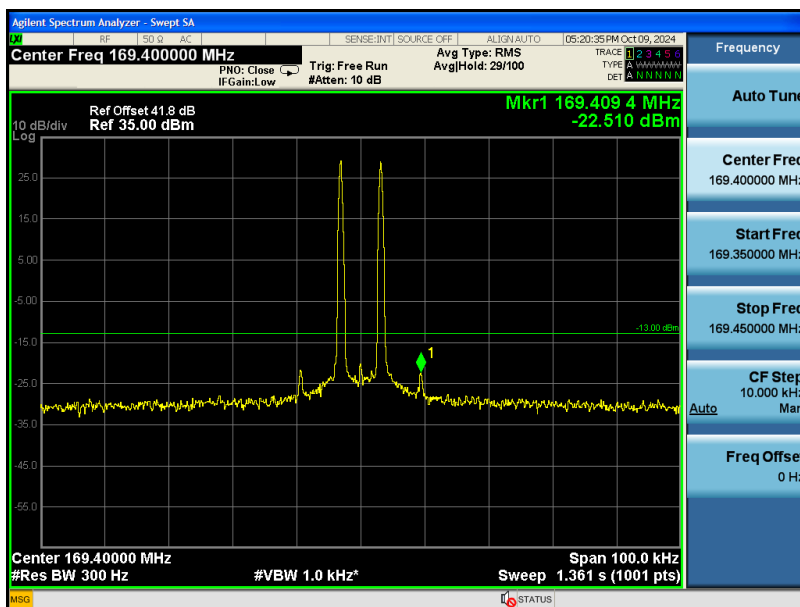


Intermodulation

UL_6.25kHz_Pre-AGC

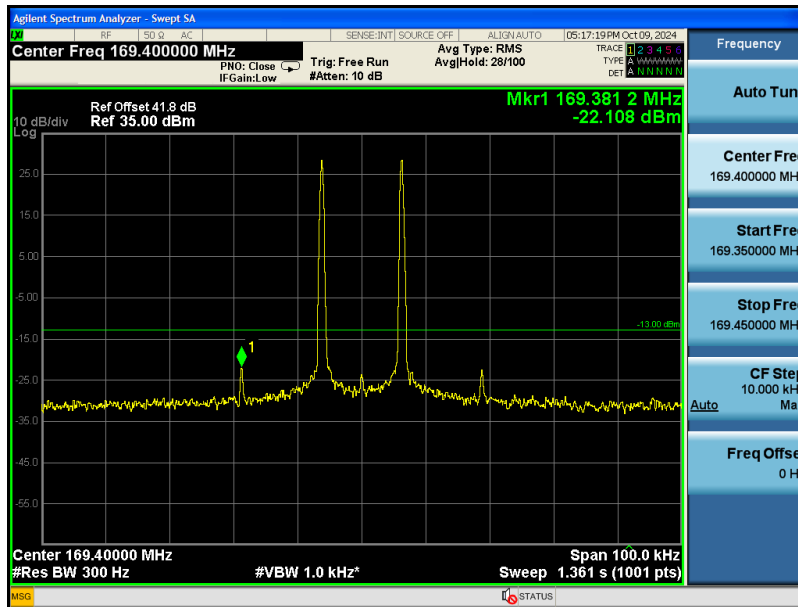


UL_6.25kHz_3dB above AGC

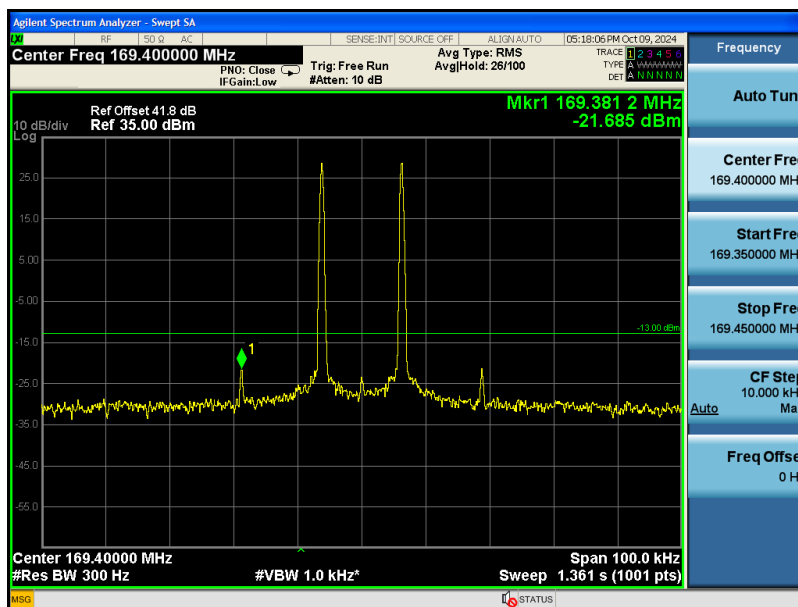


Intermodulation

UL_12.5kHz_Pre-AGC



UL_12.5kHz_3dB above AGC

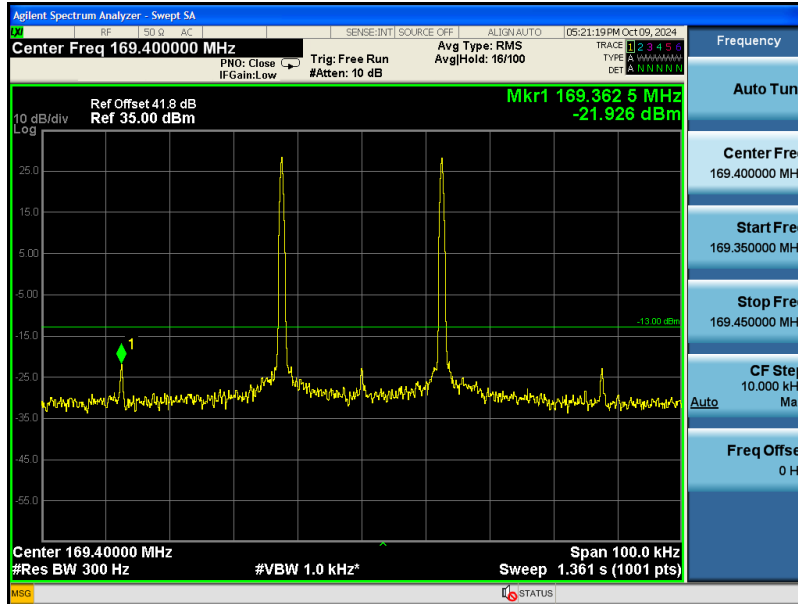


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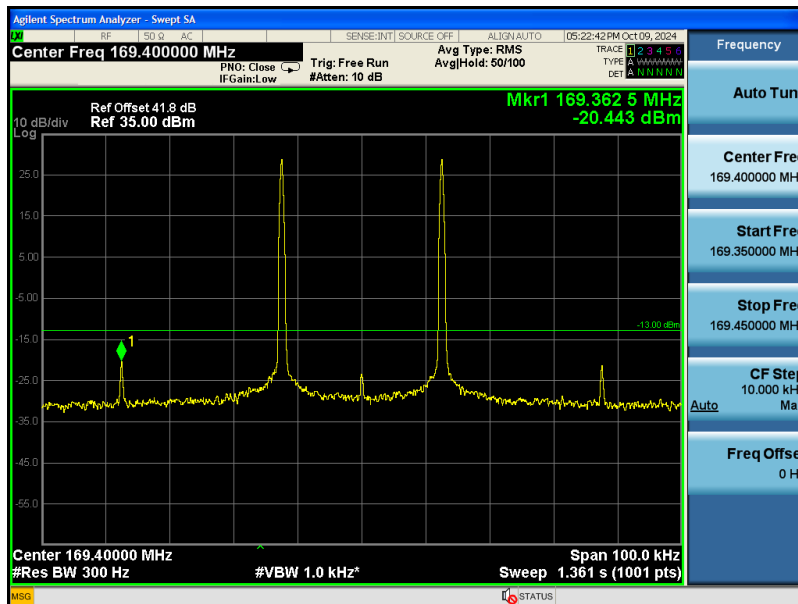
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Intermodulation

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	-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.						

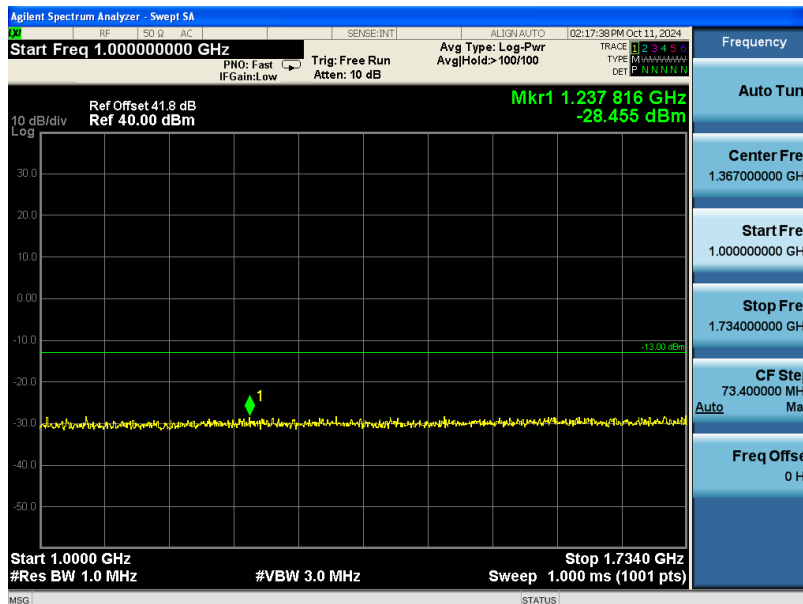
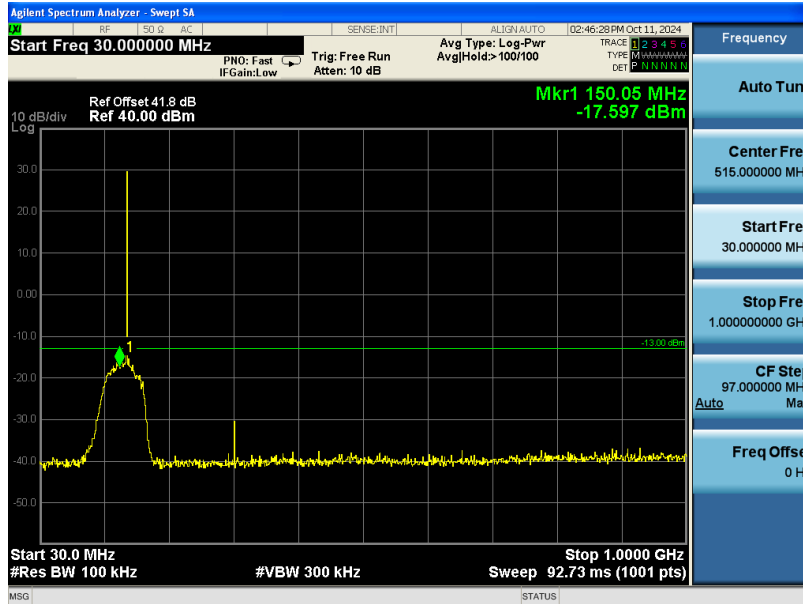


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Conducted Spurious emissions

DL_CW_MCH



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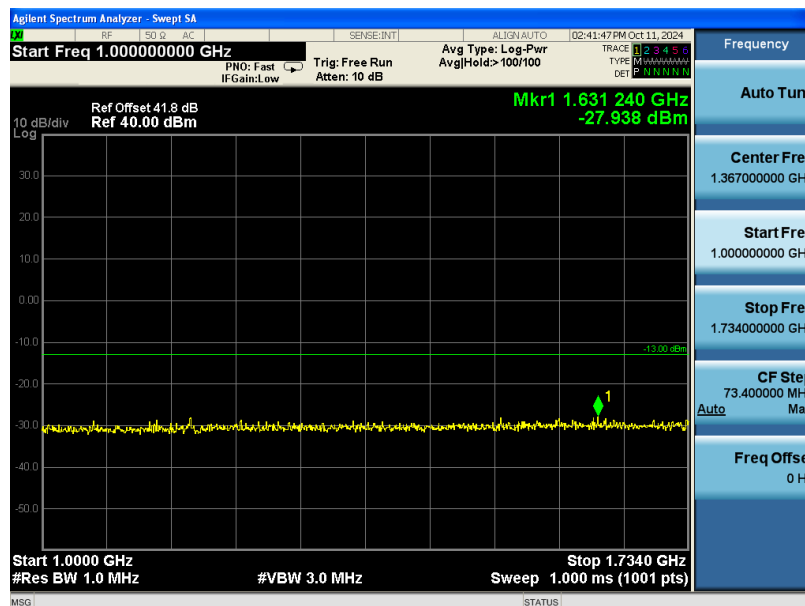
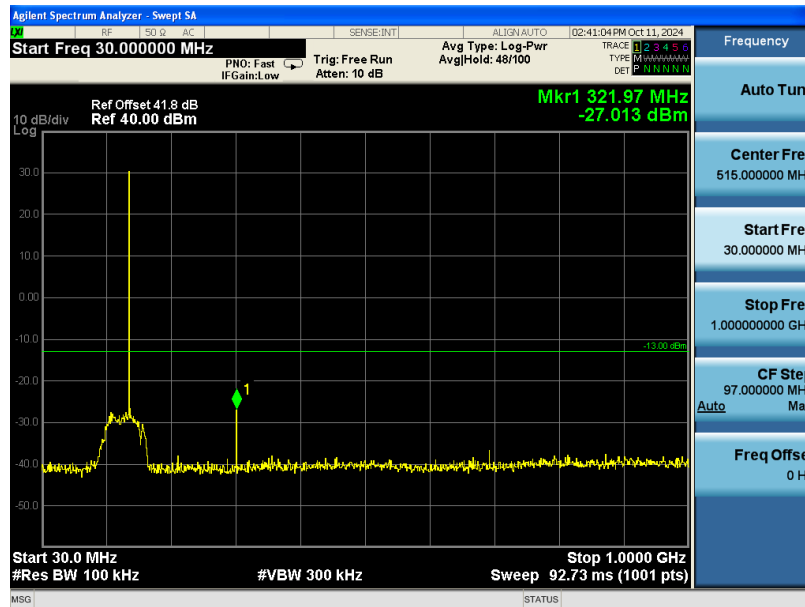
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Conducted Spurious emissions

UL_CW_MCH



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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:

- ERP= conducted test level (dBm)+ antenna gain (dBi)- 2.15dB, the antenna gain is 0dBi declared by the manufacturer.
- The ERP of worst noise within the passband is -19.91/10kHz+ 0dBi- 2.15dB= -17.76dBm, 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.
- The ERP of worst noise outside of the passband is -28.53/10kHz+ 0dBi- 2.15dB= -26.38dBm, 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.
- The noise 9kHz to 30MHz were very low and not displayed test plots in this report.

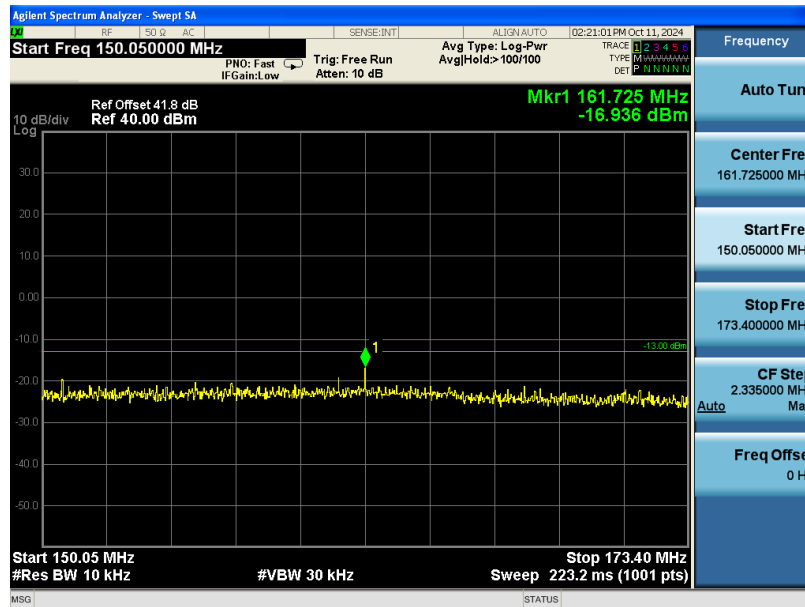


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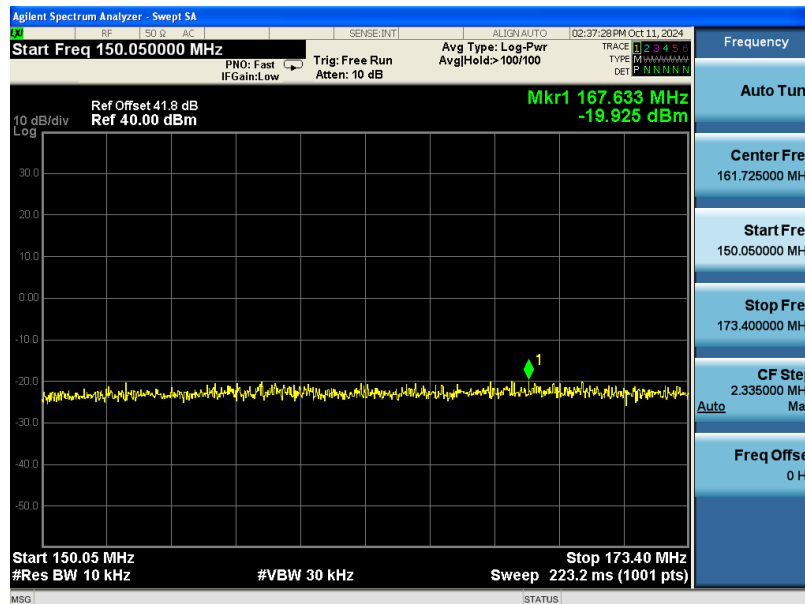
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Noise within the passband

DL



UL



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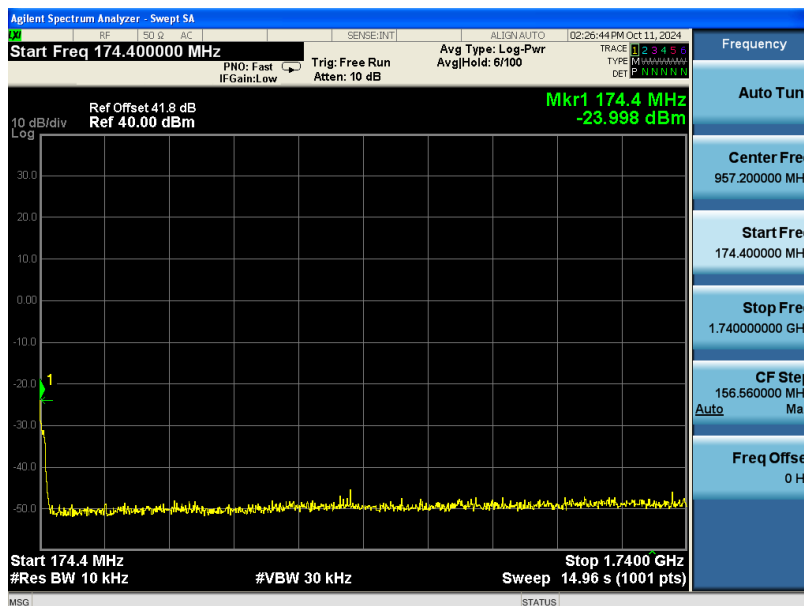
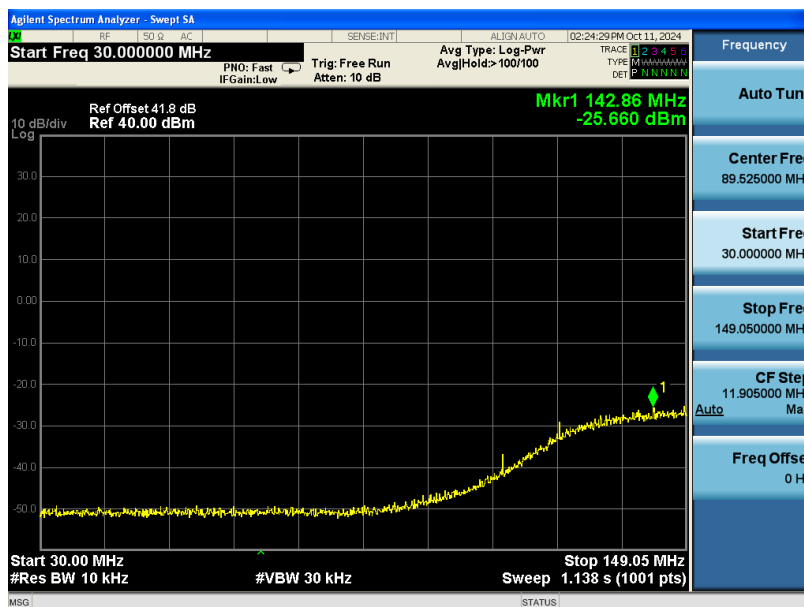
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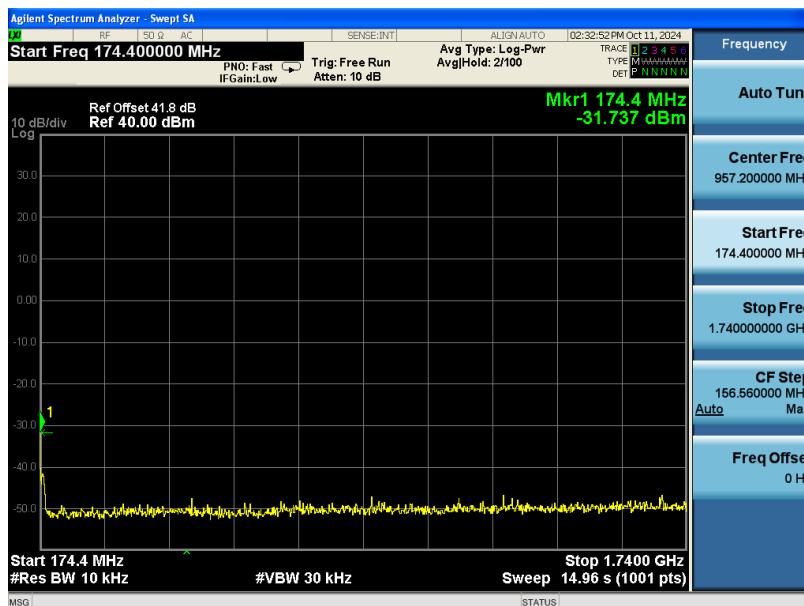
Noise outside the passband

DL



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	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
DL	FM	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
	DMR	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	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
	TRTRA	MCH	VN	+50	1.0	0.0062	PASS
			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
UL	FM	MCH	VN	+50	3.5	0.0216	PASS
			VN	+40	3.9	0.0241	PASS
			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
	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
	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



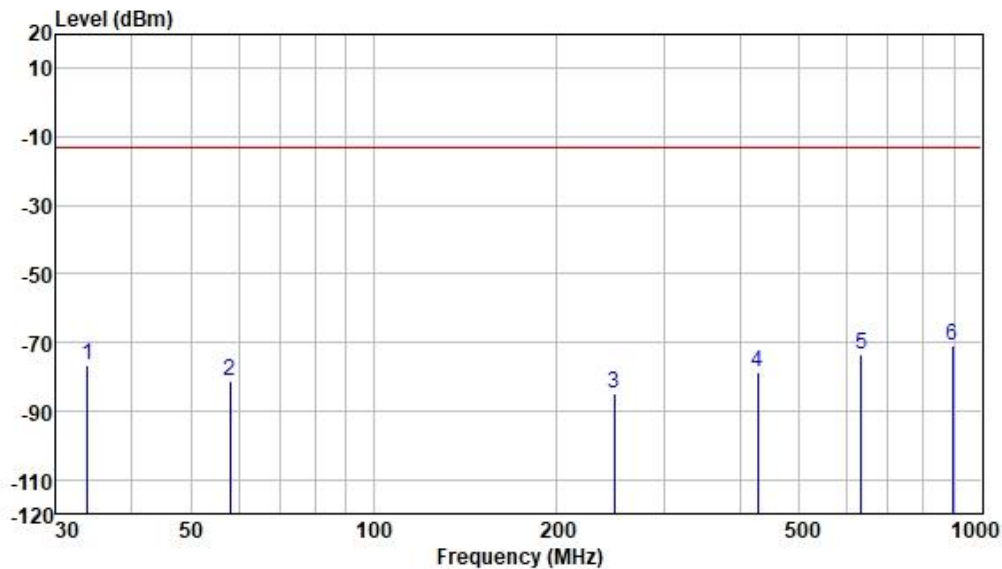
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10 Radiated Spurious emissions

Radiated Spurious emissions

DL_CW_MCH_30MHz-1GHz_Horizontal



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	33.80	-79.79	2.98	-76.81	-13.00	-63.81	HORIZONTAL
2	58.00	-78.86	-2.36	-81.22	-13.00	-68.22	HORIZONTAL
3	248.55	-79.55	-5.56	-85.11	-13.00	-72.11	HORIZONTAL
4	428.02	-78.77	0.15	-78.62	-13.00	-65.62	HORIZONTAL
5	633.91	-76.96	3.59	-73.37	-13.00	-60.37	HORIZONTAL
6	893.86	-79.81	9.15	-70.66	-13.00	-57.66	HORIZONTAL

Remark:

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

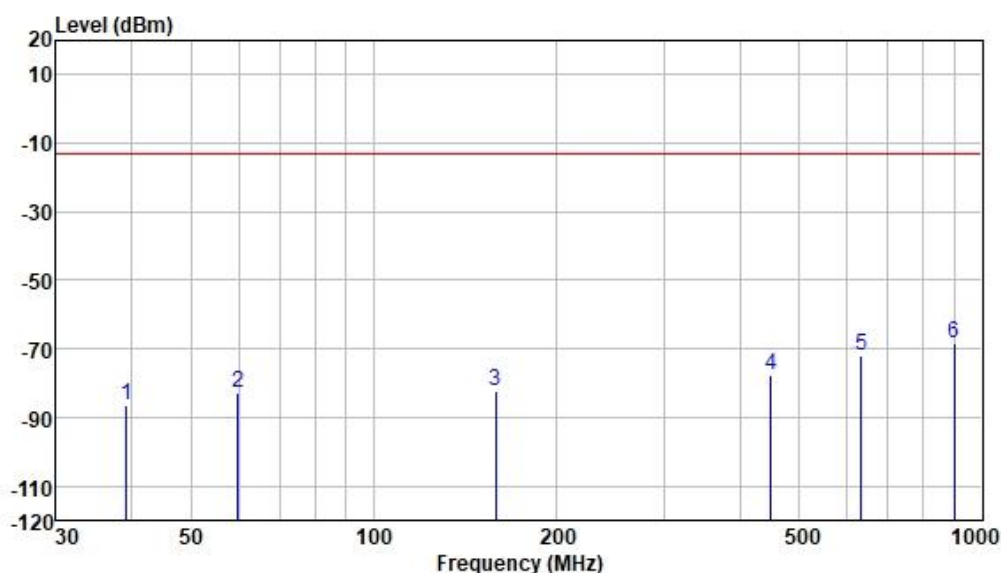


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Radiated Spurious emissions

DL_CW_MCH_30MHz-1GHz_Vertical



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	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.

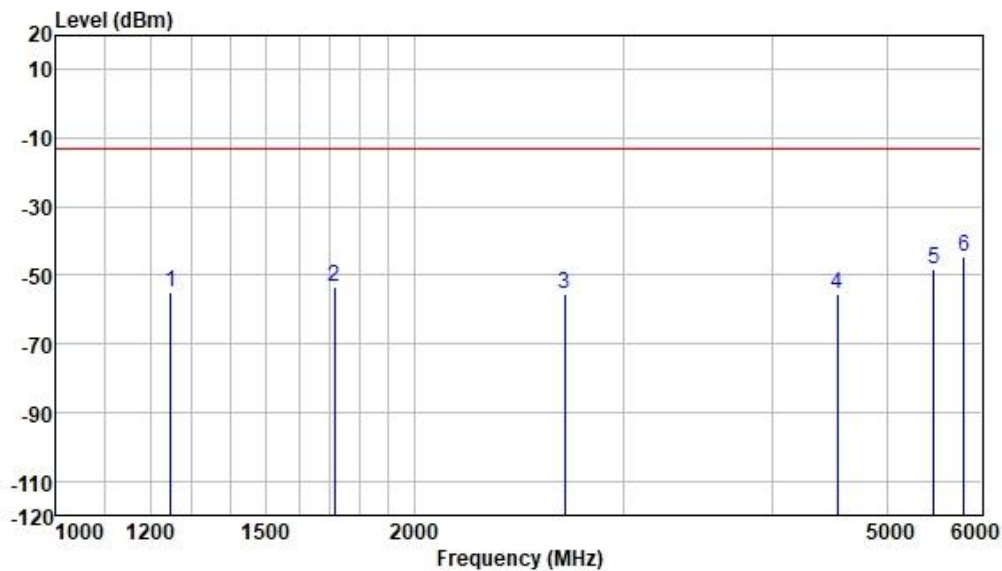


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Radiated Spurious emissions

DL_CW_MCH_above 1GHz_Horizontal



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	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.

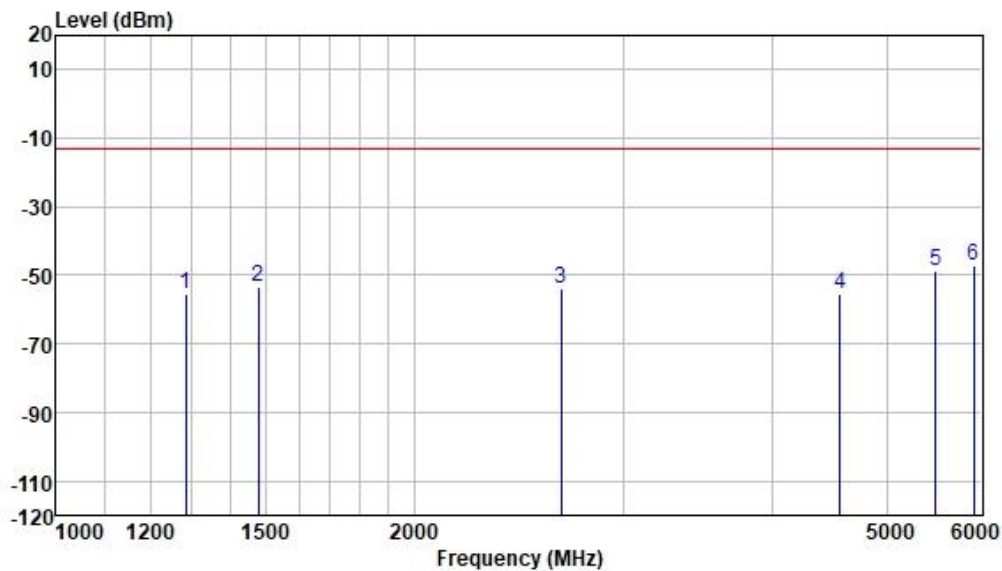


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Radiated Spurious emissions

DL_CW_MCH_above 1GHz_Vertical



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1285.11	-59.71	4.39	-55.32	-13.00	-42.32	VERTICAL
2	1477.87	-59.76	6.49	-53.27	-13.00	-40.27	VERTICAL
3	2655.17	-59.44	5.36	-54.08	-13.00	-41.08	VERTICAL
4	4561.36	-62.03	6.56	-55.47	-13.00	-42.47	VERTICAL
5	5485.85	-62.88	14.42	-48.46	-13.00	-35.46	VERTICAL
6	5904.02	-62.98	16.07	-46.91	-13.00	-33.91	VERTICAL

Remark:

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

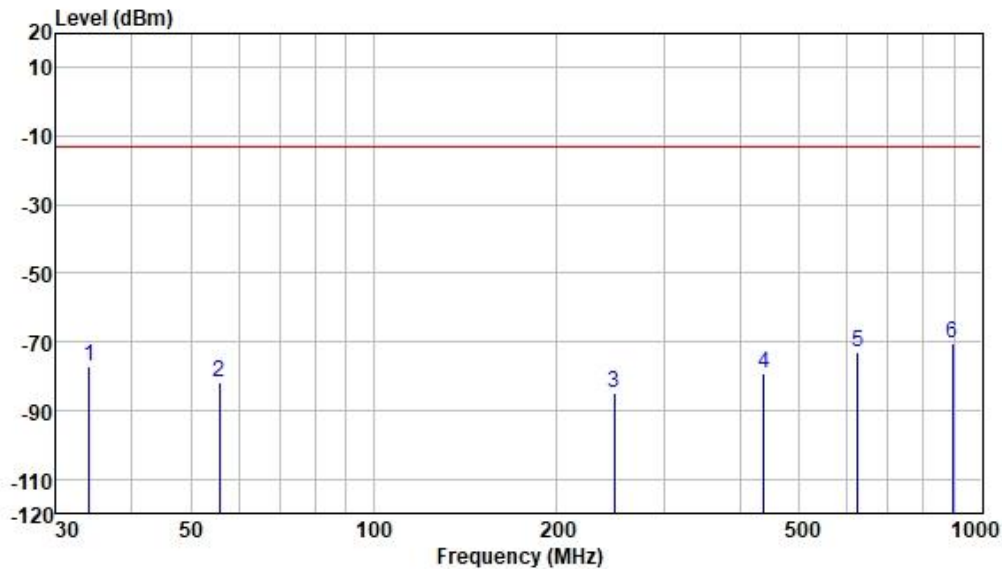


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Radiated Spurious emissions

UL_CW_MCH_30MHz-1GHz_Horizontal



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
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.

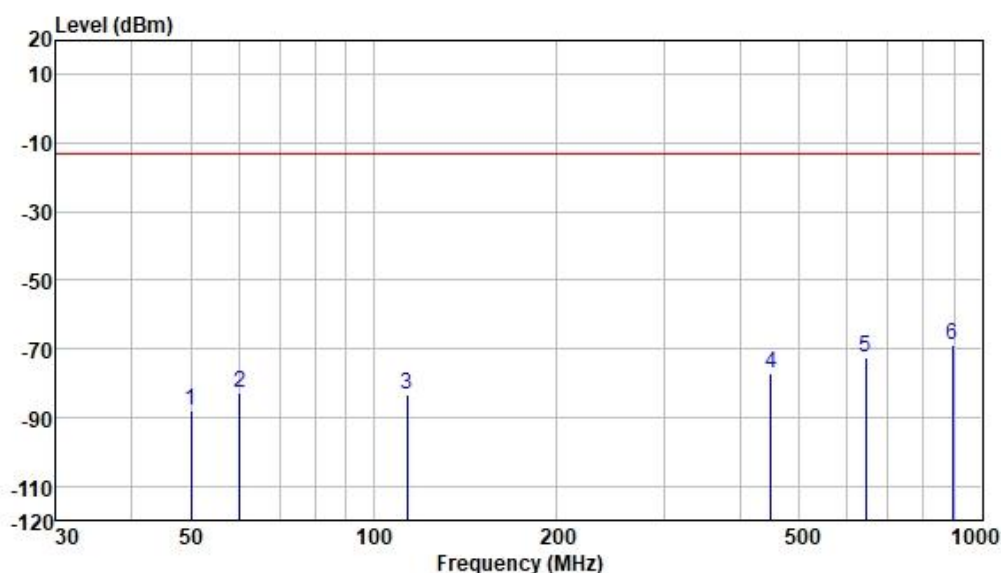


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Radiated Spurious emissions

UL_CW_MCH_30MHz-1GHz_Vertical



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	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.

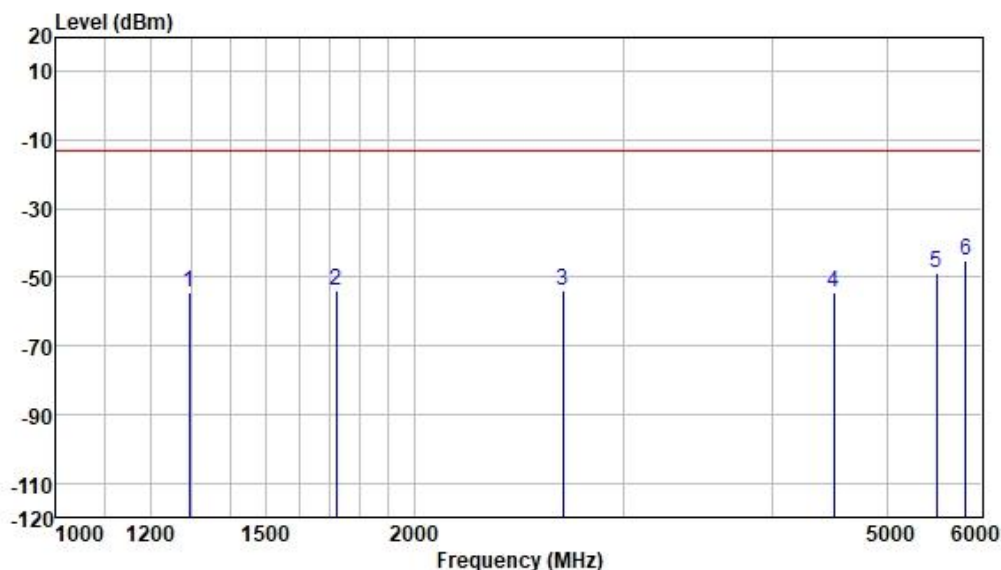


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Radiated Spurious emissions

UL_CW_MCH_above 1GHz_Horizontal



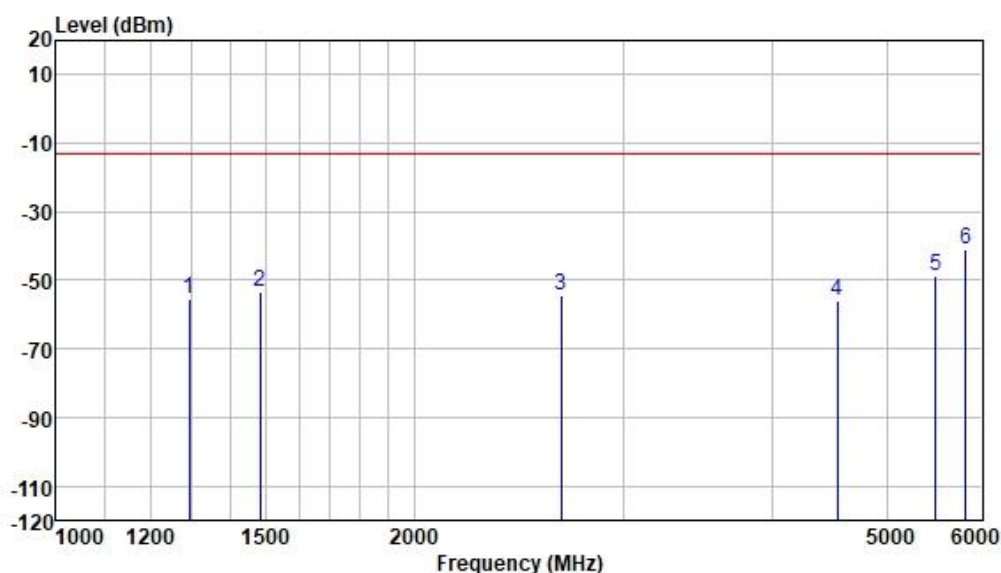
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1294.36	-58.56	3.98	-54.58	-13.00	-41.58	HORIZONTAL
2	1721.00	-59.90	6.28	-53.62	-13.00	-40.62	HORIZONTAL
3	2664.70	-59.04	4.96	-54.08	-13.00	-41.08	HORIZONTAL
4	4504.51	-60.69	6.13	-54.56	-13.00	-41.56	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.

Radiated Spurious emissions

UL_CW_MCH_above 1GHz_Vertical



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	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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