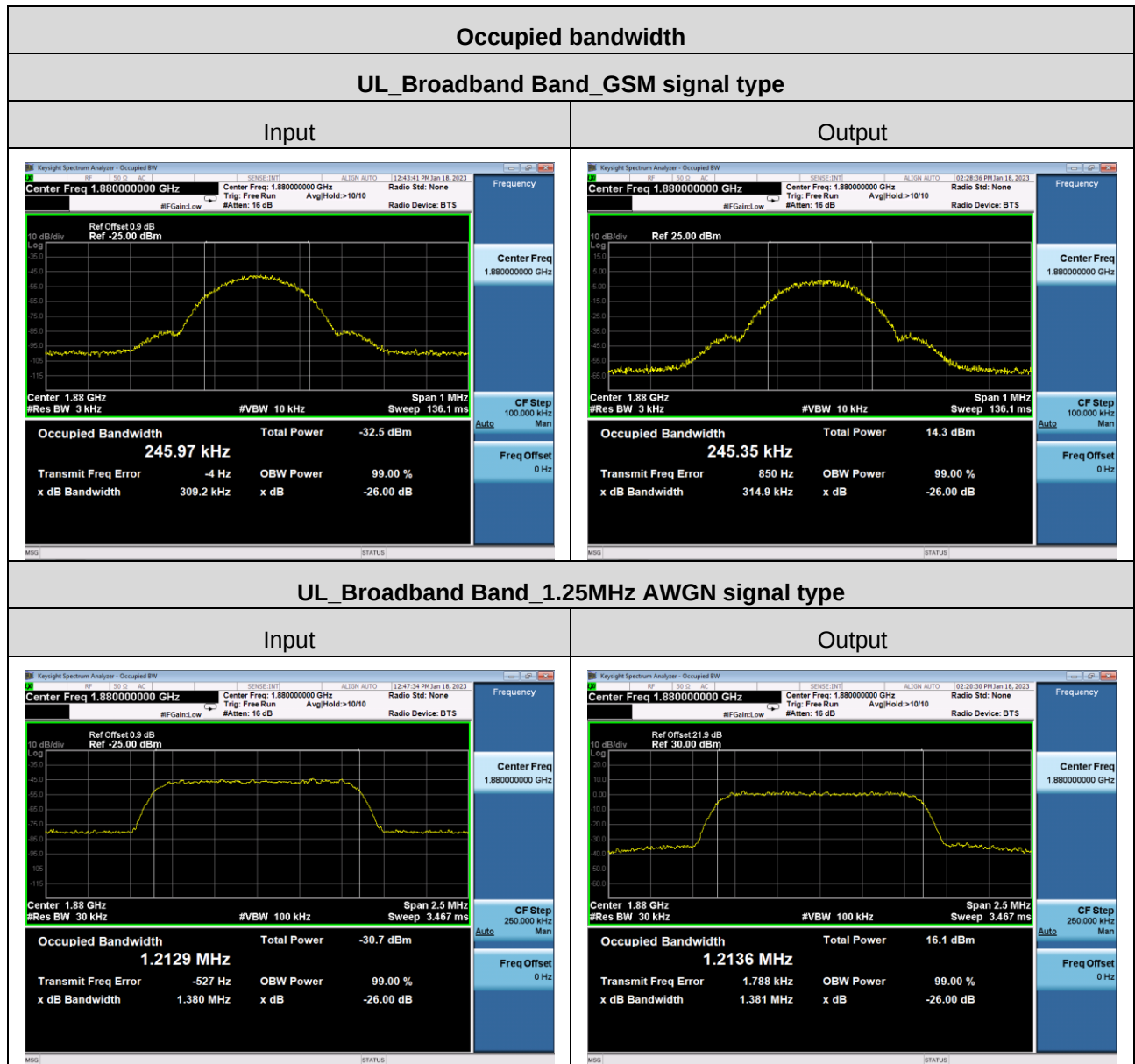
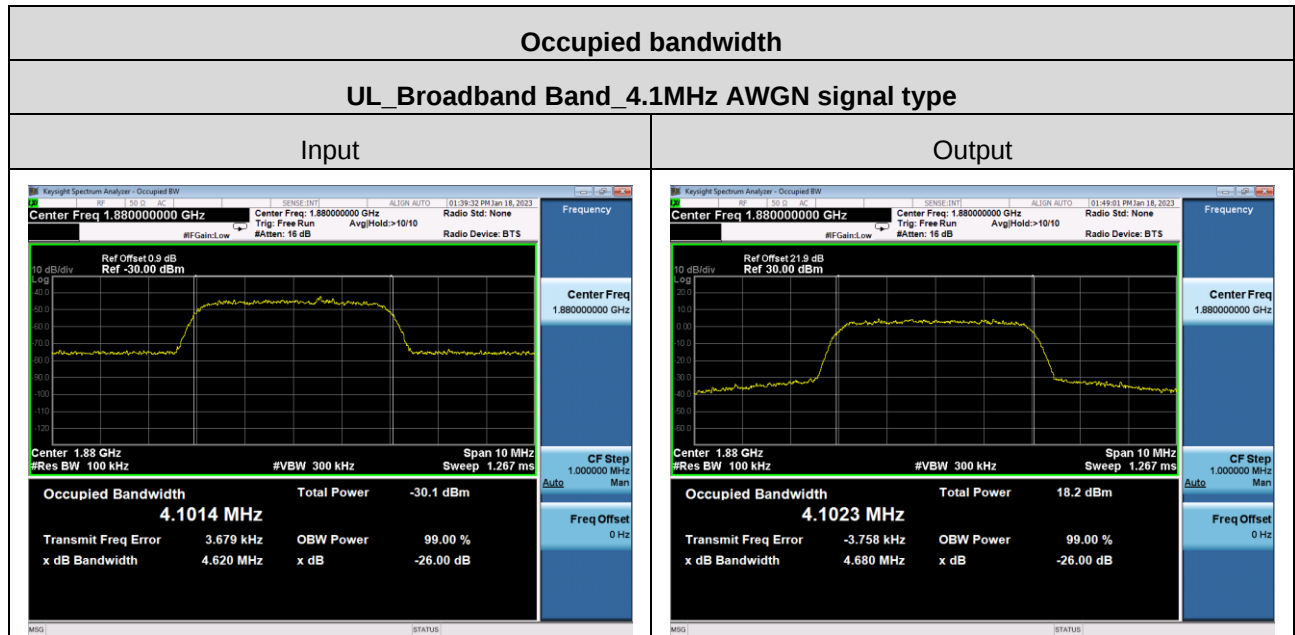




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11 Oscillation detection

Oscillation Restart Tests									
Path	Band	Detection Time (s)	Limit (s)	Oscillation Level (dBm)	Restart Time (s)	Limit (s)	Number of Restart	Limit	Verdict
DL	700MHz	0.205	≤1	19.70	61.45	≥60	5	≤5	PASS
	Cellular	0.265		19.75	61.47		5		PASS
	AWS-1	0.060		22.21	63.39		4		PASS
	Broadband PCS	0.275		24.28	62.27		4		PASS
UL	Lower 700MHz	0.225	≤0.3	20.57	60.99	≥60	4	≤5	PASS
	Upper 700MHz	0.080		20.40	61.39		5		PASS
	Cellular	0.175		9.52	61.15		4		PASS
	AWS-1	0.115		19.21	61.87		5		PASS
	Broadband PCS	0.075		21.97	61.07		4		PASS



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Oscillation Mitigation or Shutdown								
Path	Band	Isolation (dB)	Oscillation Level			Limit (dB)	Verdict	
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)			
DL	700MHz	67.6	14.73	9.73	5.00	≤12	PASS	
		66.6	19.34	12.84	6.50		PASS	
		65.6	(shutdown)				PASS	
		64.6					PASS	
		63.6					PASS	
		62.6					PASS	
		61.6					PASS	
		60.6					PASS	
		59.6					PASS	
		58.6					PASS	
		57.6					PASS	
	Cellular	68.8	9.73	8.29	1.44	≤12	PASS	
		67.8	17.73	13.28	4.45		PASS	
		66.8	12.63	11.11	1.52		PASS	
		65.8	16.73	9.97	6.76		PASS	
		64.8	19.53	14.25	5.28		PASS	
		63.8	(shutdown)				PASS	
		62.8					PASS	
		61.8					PASS	
		60.8					PASS	
		59.8					PASS	
		58.8					PASS	



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Oscillation Mitigation or Shutdown								
Path	Band	Isolation (dB)	Oscillation Level			Limit (dB)	Verdict	
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)			
DL	AWS-1	75.9	7.83	5.73	2.10	≤12	PASS	
		74.9	9.73	7.84	1.89		PASS	
		73.9	8.37	6.37	2.00		PASS	
		72.9	11.32	9.83	1.49		PASS	
		71.9	13.26	10.02	3.24		PASS	
		70.9	17.73	13.24	4.49		PASS	
		69.9	22.03	16.37	5.66		PASS	
		68.9	(shutdown)				PASS	
		67.9					PASS	
		66.9					PASS	
		65.9					PASS	
	Broadband PCS	75.5	11.42	10.83	0.59	≤12	PASS	
		74.5	13.24	9.83	3.41		PASS	
		73.5	17.73	13.23	4.50		PASS	
		72.5	24.00	18.92	5.08		PASS	
		71.5	(shutdown)				PASS	
		70.5					PASS	
		69.5					PASS	
		68.5					PASS	
		67.5					PASS	
		66.5					PASS	
		65.5					PASS	



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Path	Band	Isolation (dB)	Oscillation Level			Limit (dB)	Verdict	
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)			
UL	Lower 700MHz	67.6	6.36	5.32	1.04	≤12	PASS	
		66.6	8.73	5.35	3.38		PASS	
		65.6	10.63	8.92	1.71		PASS	
		64.6	14.83	10.19	4.64		PASS	
		63.6	18.28	12.34	5.94		PASS	
		62.6	20.11	16.37	3.74		PASS	
		61.6	(shutdown)				PASS	
		60.6					PASS	
		59.6					PASS	
		58.6					PASS	
		57.6					PASS	
	Upper 700MHz	68.8	9.38	7.83	1.55	≤12	PASS	
		67.8	11.32	9.43	1.89		PASS	
		66.8	16.34	11.64	4.70		PASS	
		65.8	20.35	16.38	3.97		PASS	
		64.8	(shutdown)				PASS	
		63.8					PASS	
		62.8					PASS	
		61.8					PASS	
		60.8					PASS	
		59.8					PASS	
		58.8					PASS	



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Oscillation Mitigation or Shutdown								
Path	Band	Isolation (dB)	Oscillation Level			Limit (dB)	Verdict	
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)			
UL	Cellular	68.7	7.83	6.43	1.40	≤12	PASS	
		67.7	9.18	7.11	2.07		PASS	
		66.7	(shutdown)				PASS	
		65.7					PASS	
		64.7					PASS	
		63.7					PASS	
		62.7					PASS	
		61.7					PASS	
		60.7					PASS	
		59.7					PASS	
		58.7					PASS	
		AWS-1					75.8	11.21
	74.8		14.56	11.54	3.02	PASS		
	73.8		19.07	14.56	4.51	PASS		
	72.8		(shutdown)				PASS	
	71.8						PASS	
	70.8						PASS	
	69.8						PASS	
	68.8						PASS	
	67.8						PASS	
	66.8						PASS	
	65.8	PASS						



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Oscillation Mitigation or Shutdown								
Path	Band	Isolation (dB)	Oscillation Level			Limit (dB)	Verdict	
			Highest level (dBm)	Lowest level (dBm)	Difference (dB)			
UL	Broadband PCS	75.8	8.38	7.38	1.00	≤12	PASS	
		74.8	11.73	11.28	0.45		PASS	
		73.8	14.32	12.93	1.39		PASS	
		72.8	15.34	14.34	1.00		PASS	
		71.8	18.34	16.53	1.81		PASS	
		70.8	21.65	20.37	1.28		PASS	
		69.8	(shutdown)				PASS	
		68.8					PASS	
		67.8					PASS	
		66.8					PASS	
		65.8					PASS	



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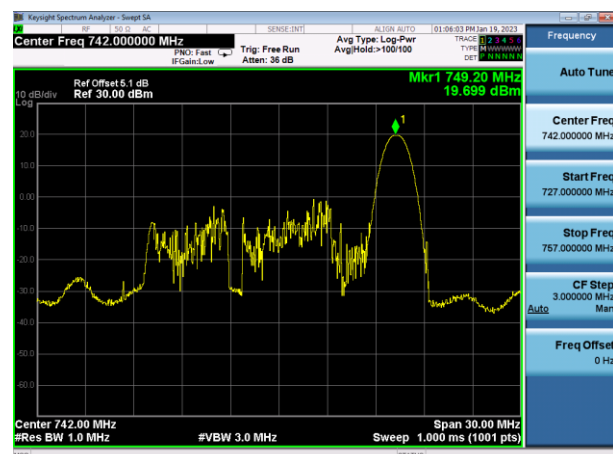
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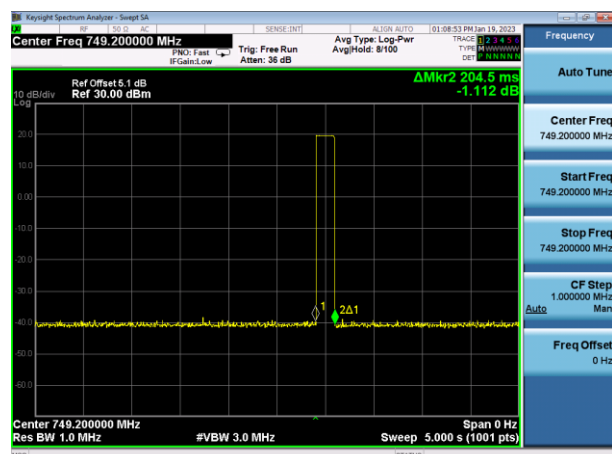
Oscillation Restart Test

DL_700MHz Band

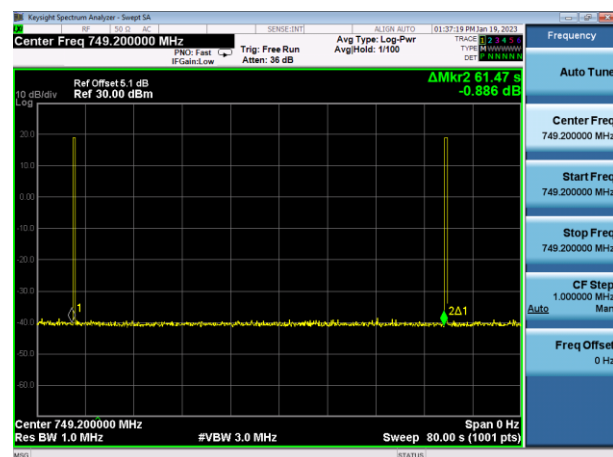
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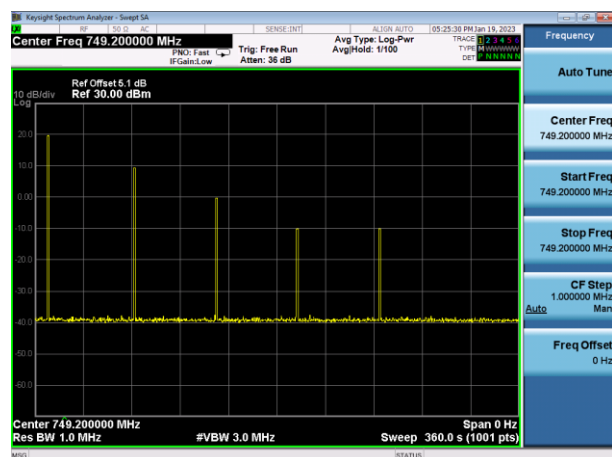
Detection time



Restart Time



Number of Restart



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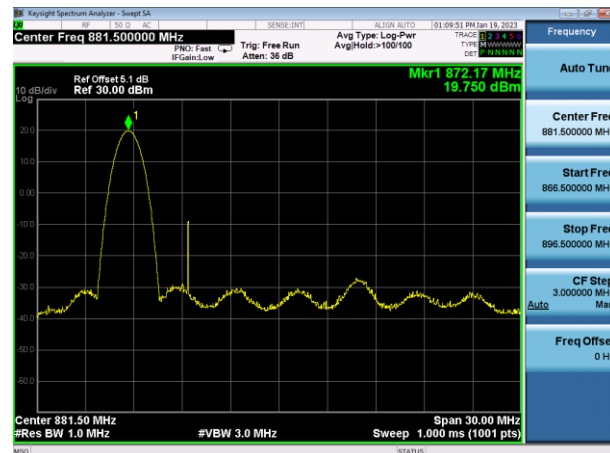
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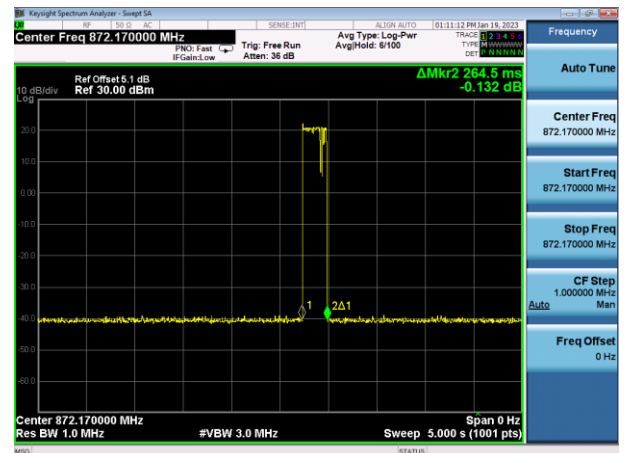
Oscillation Restart Test

DL Cellular Band

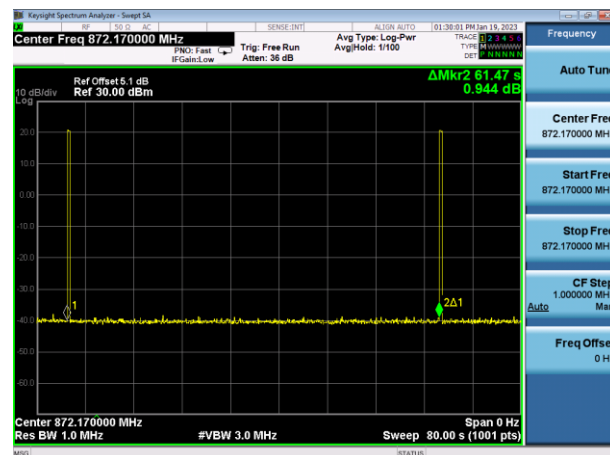
Oscillation Level



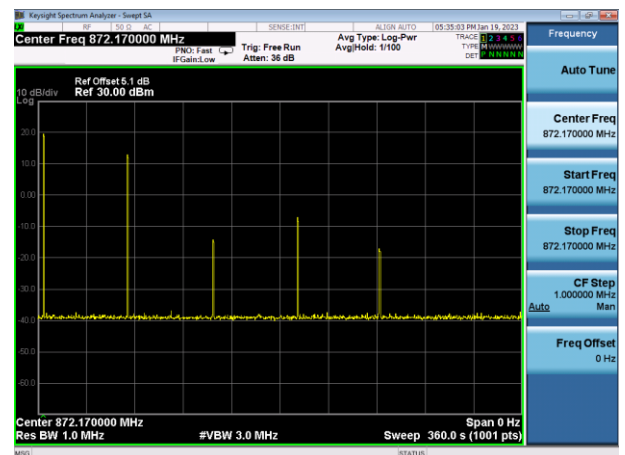
Detection time



Restart Time

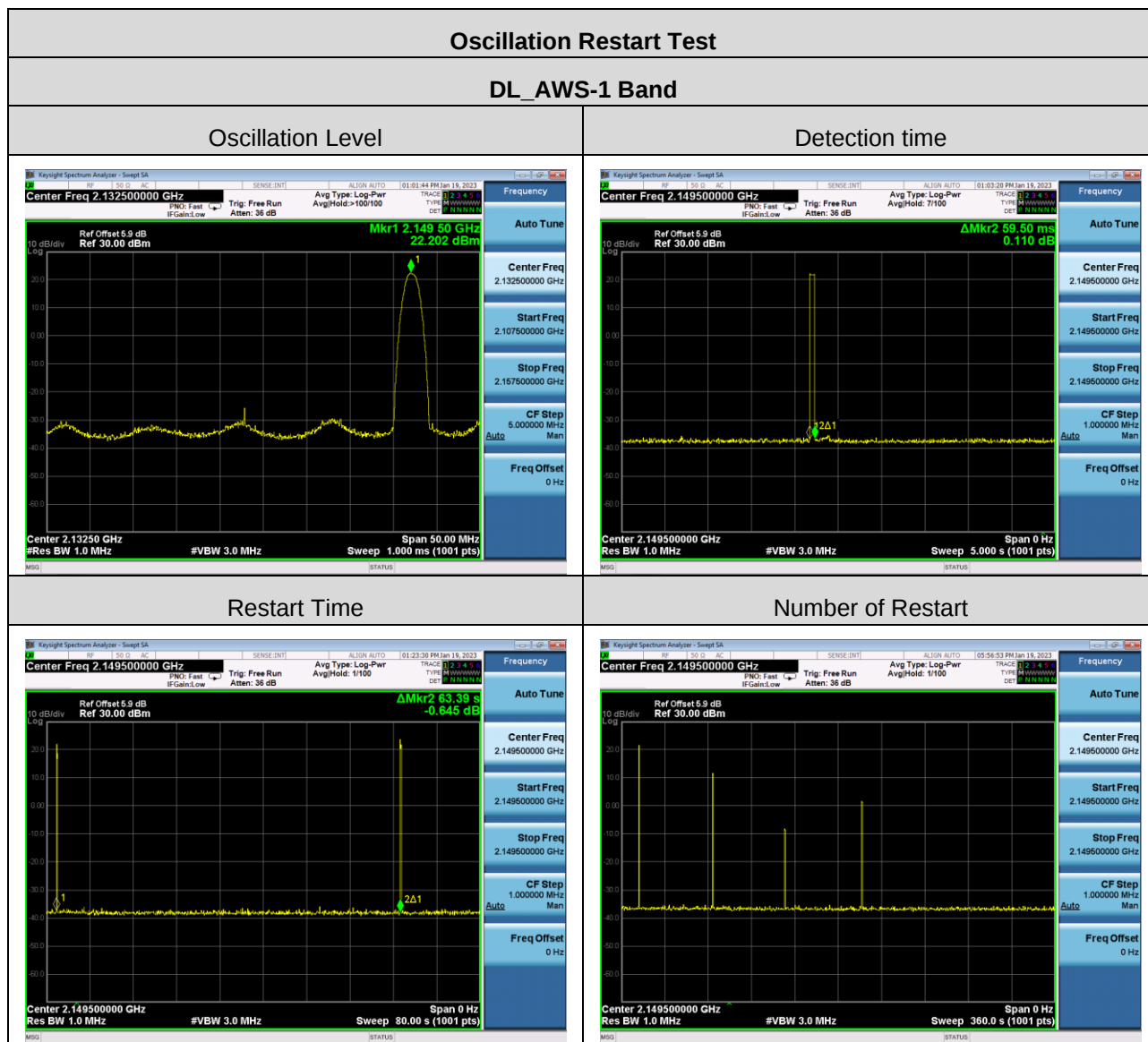


Number of Restart



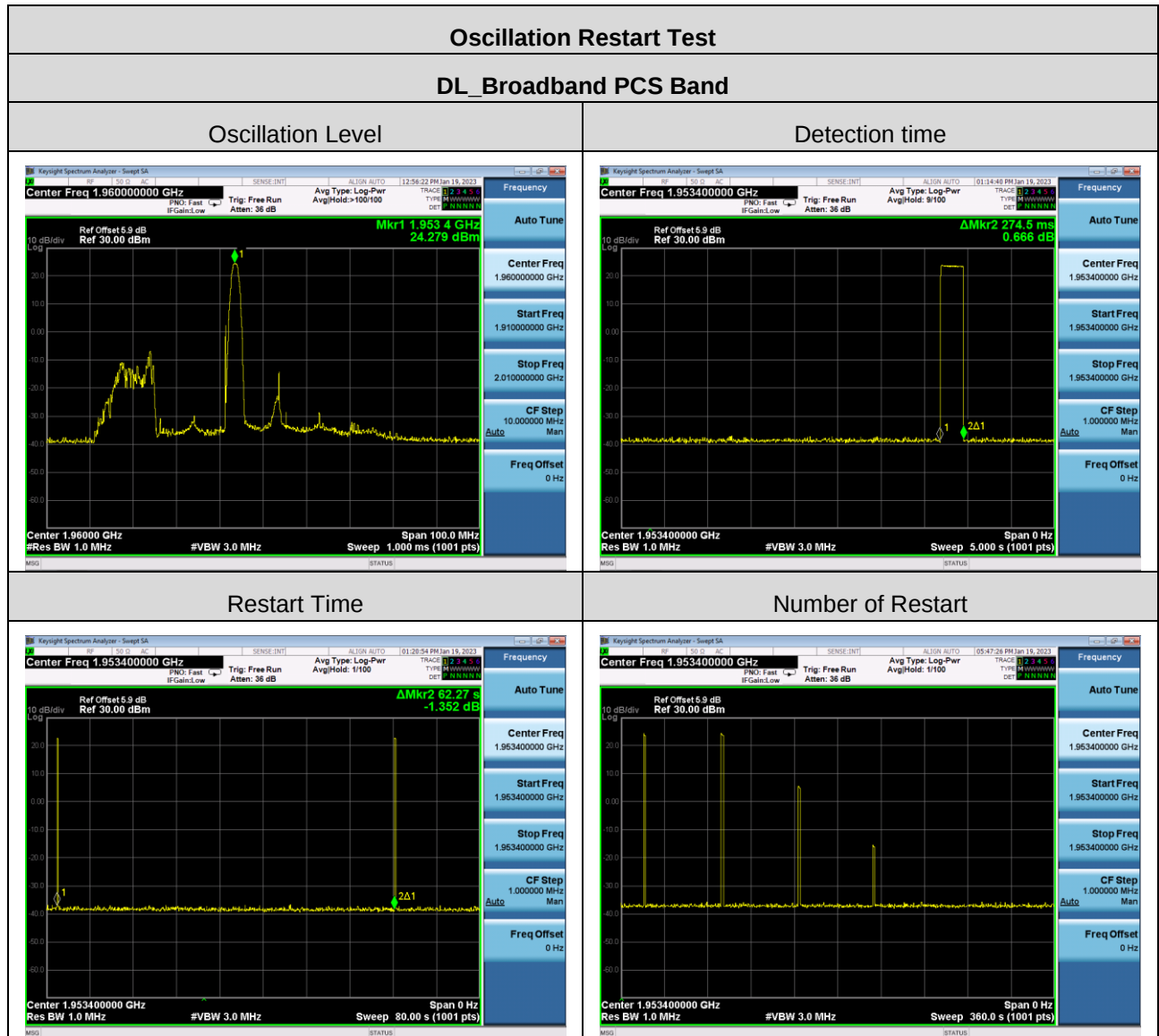
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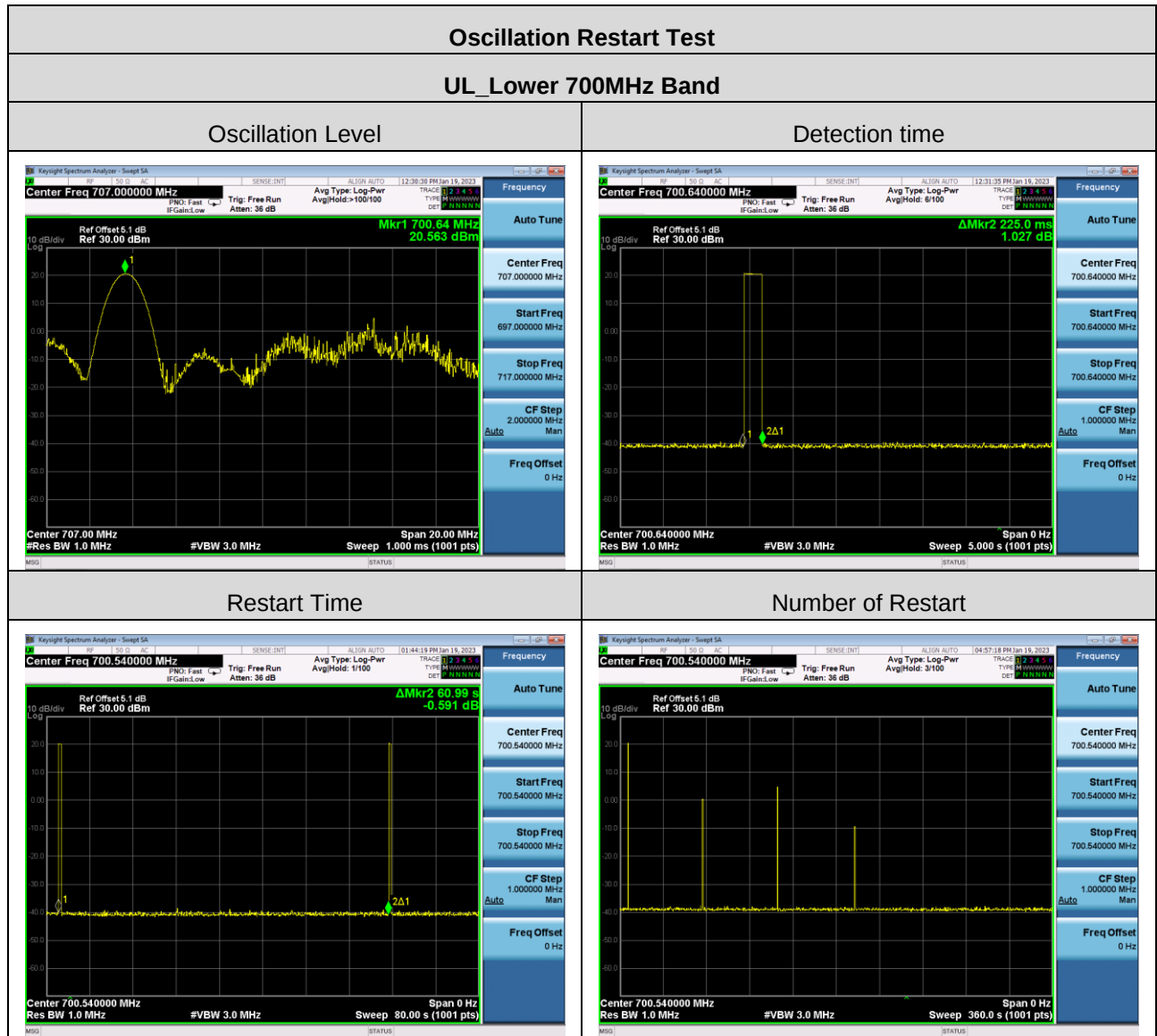
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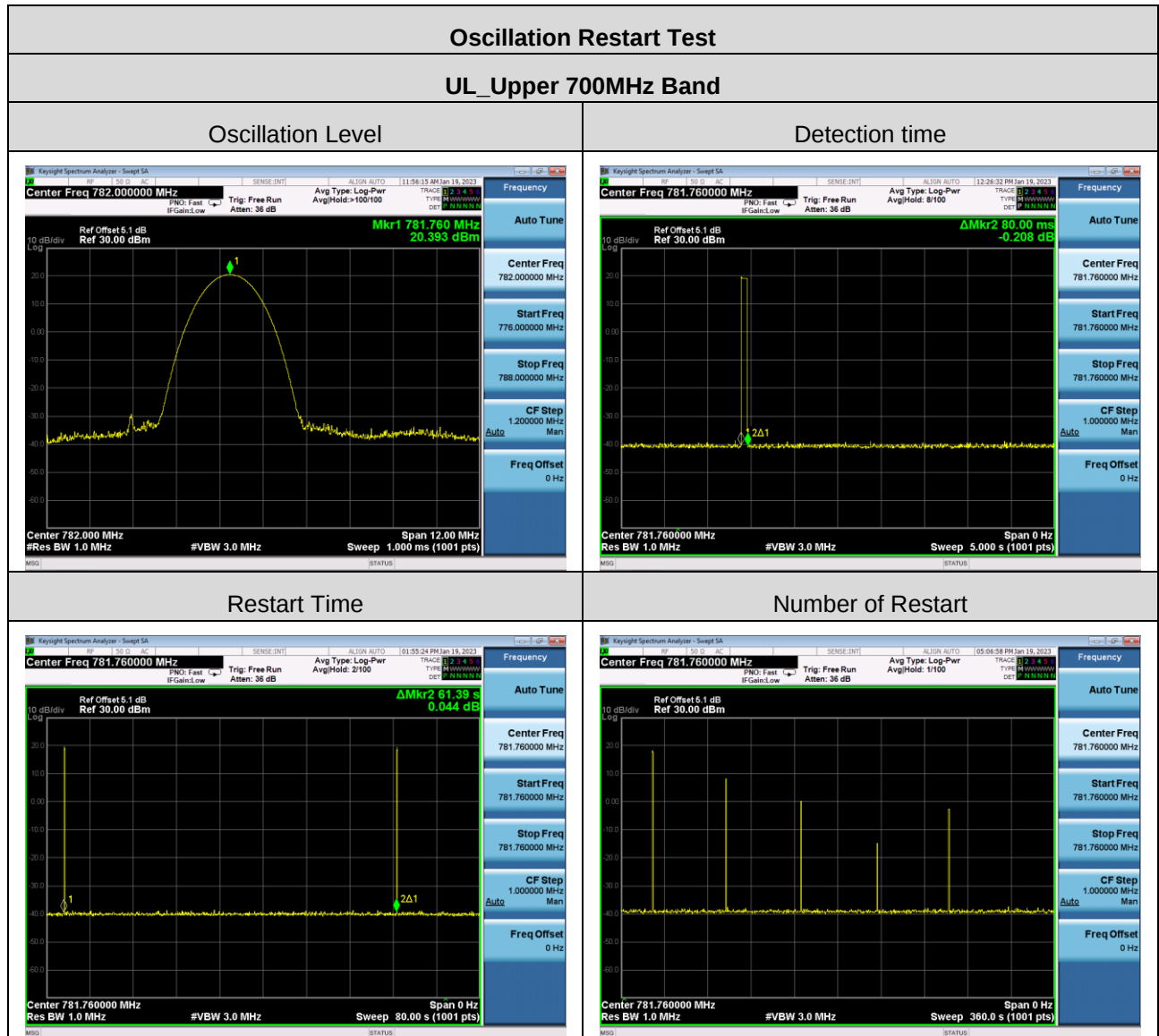
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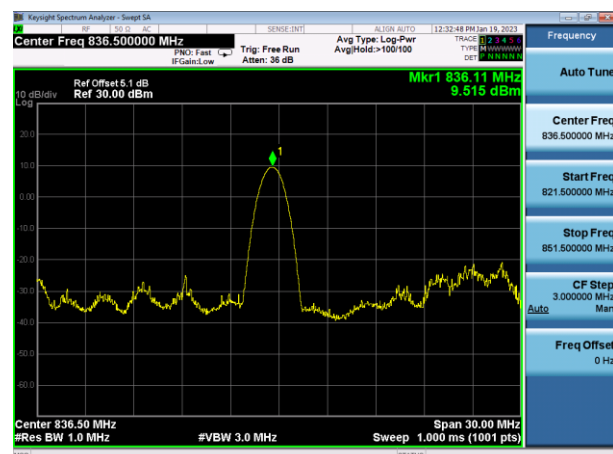
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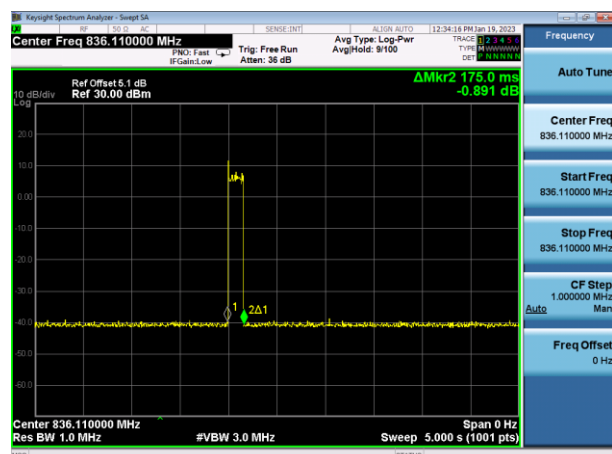
Oscillation Restart Test

UL Cellular Band

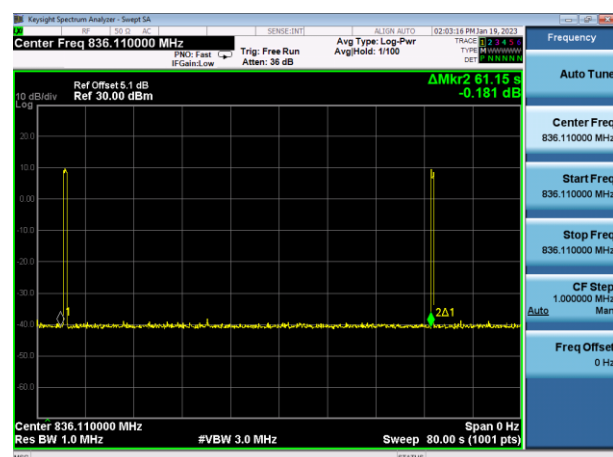
Oscillation Level



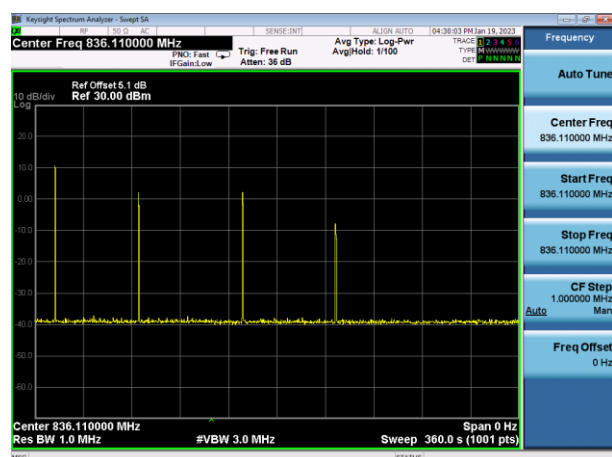
Detection time



Restart Time



Number of Restart

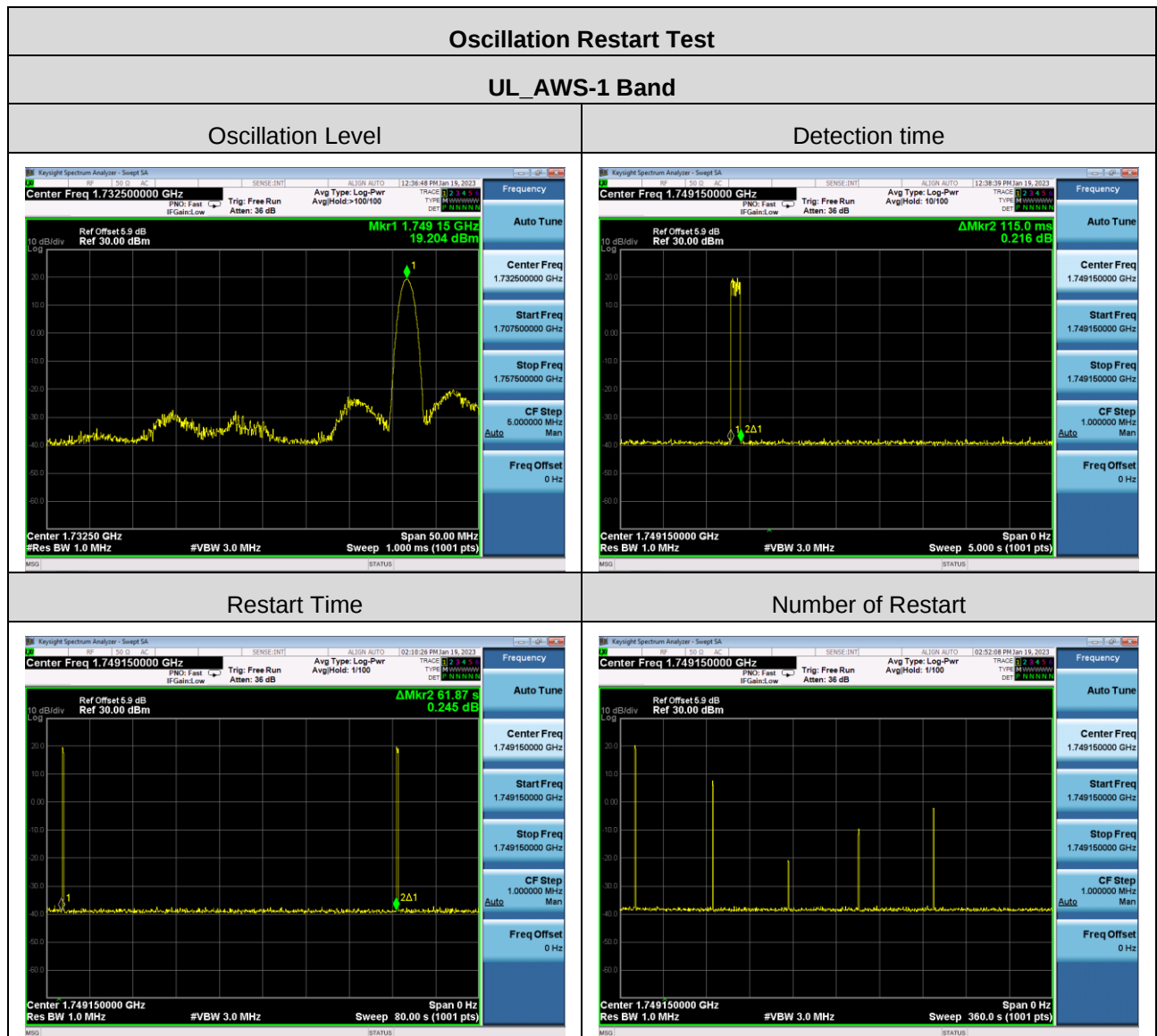


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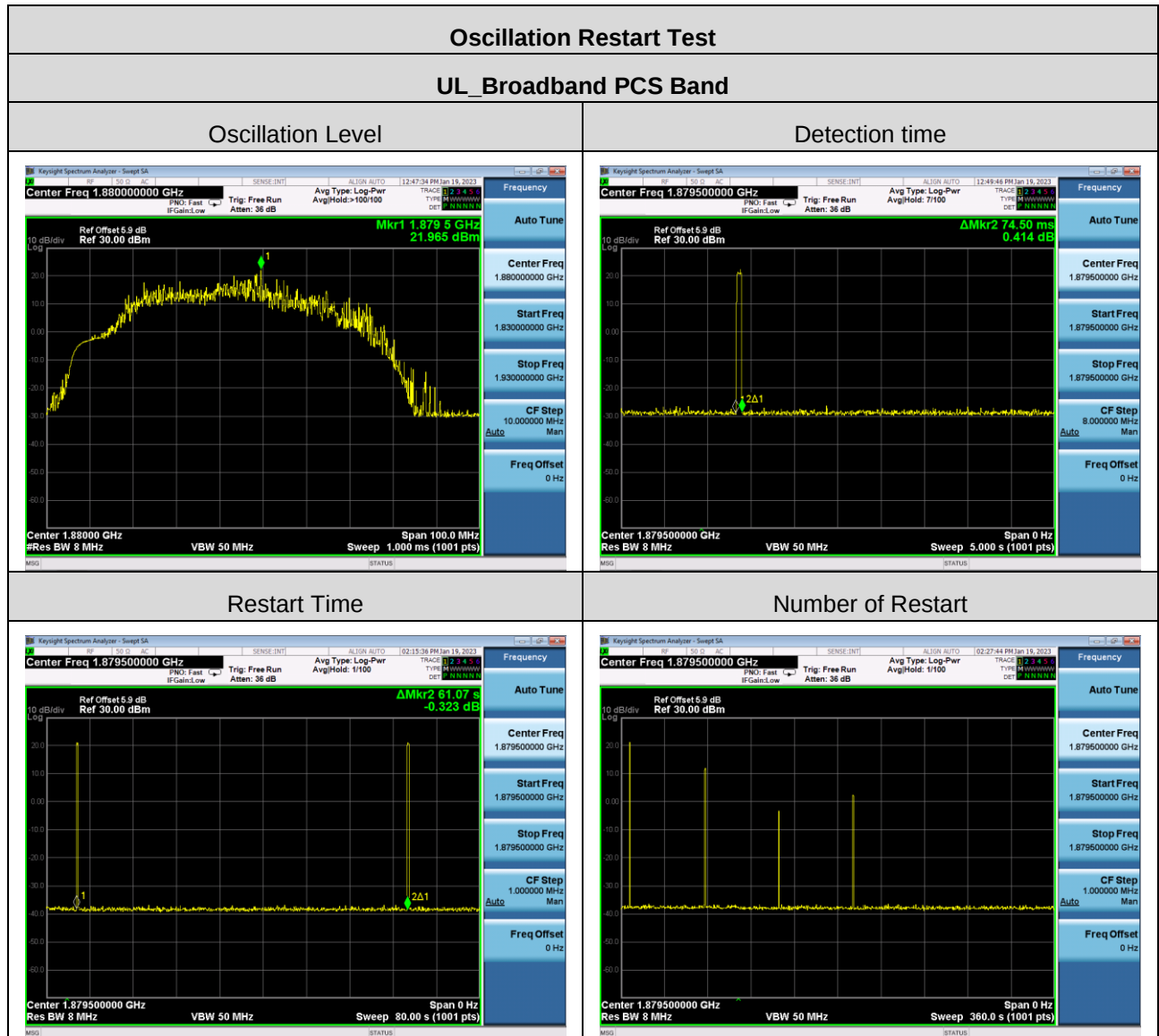
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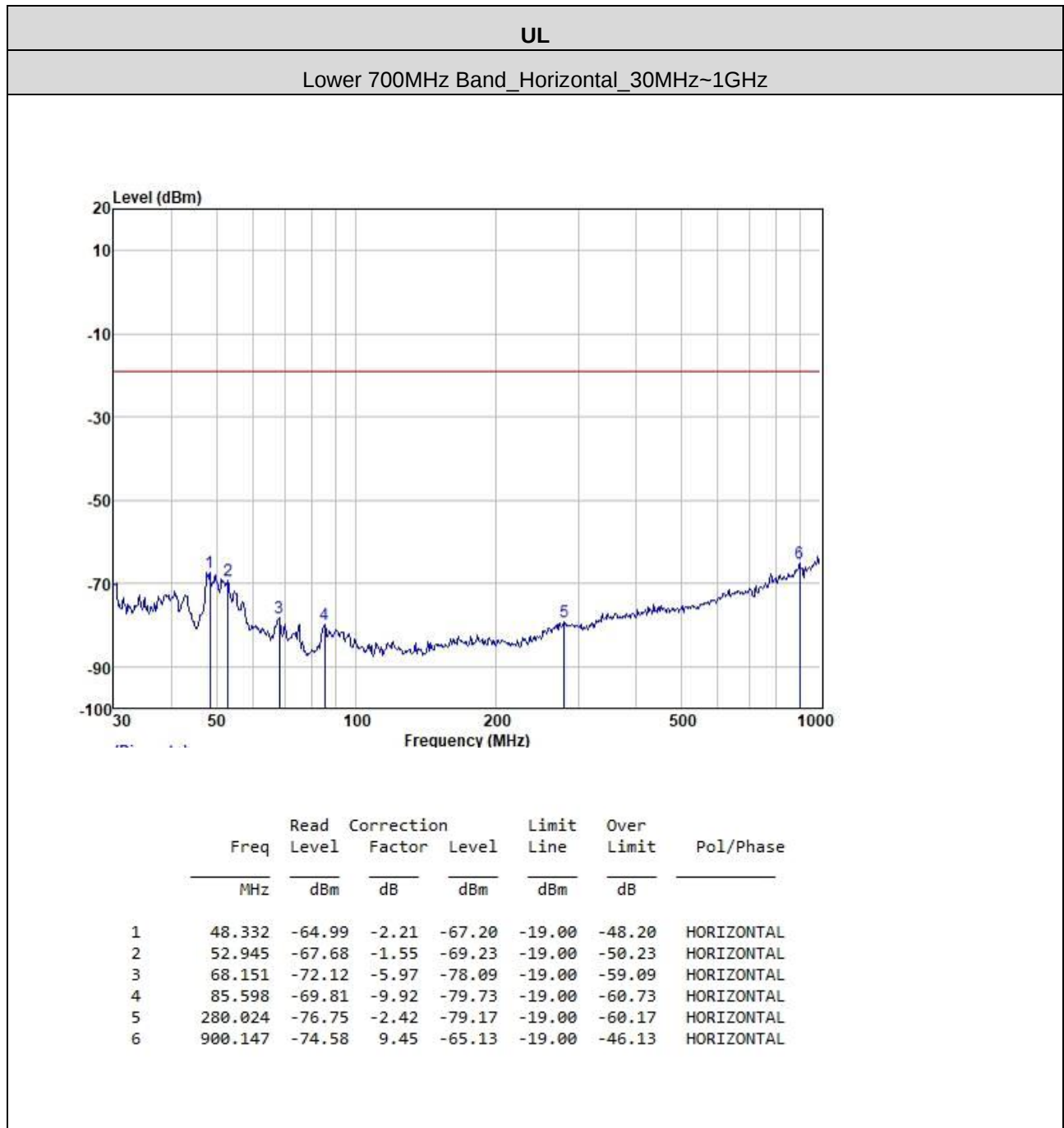
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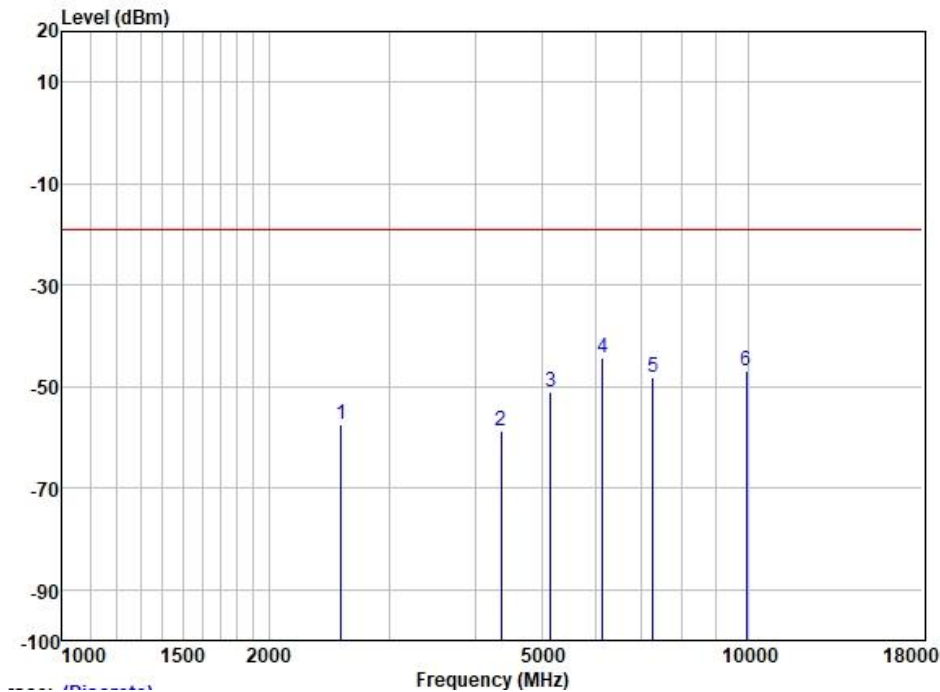
12 Radiated spurious emissions



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Lower 700MHz Band_Horizontal_above 1GHz



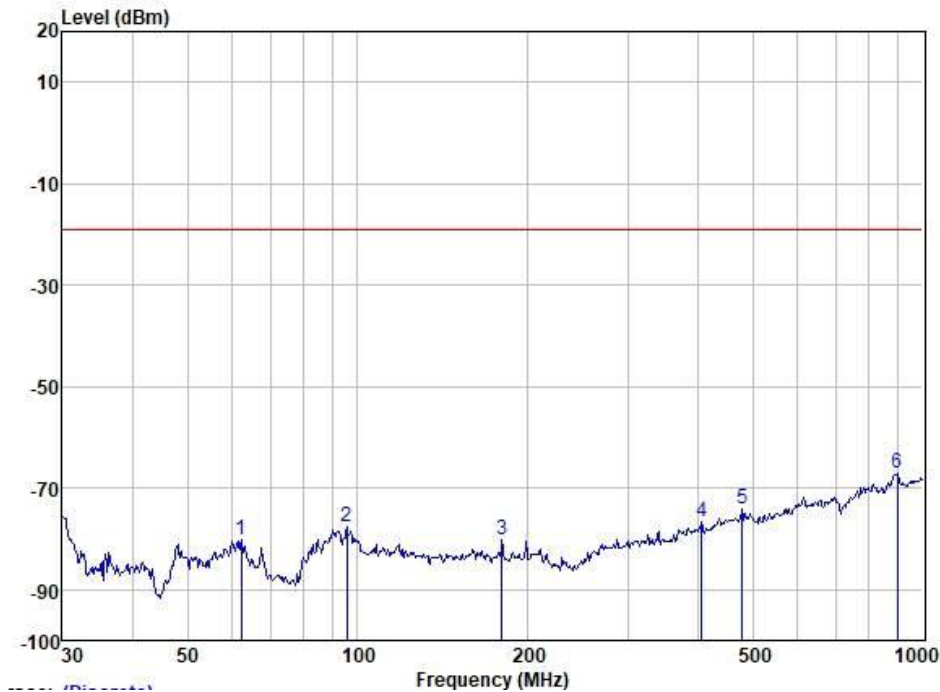
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	2550.987	-64.00	6.46	-57.54	-19.00	-38.54	HORIZONTAL
2	4367.058	-63.02	4.42	-58.60	-19.00	-39.60	HORIZONTAL
3	5149.197	-63.52	12.36	-51.16	-19.00	-32.16	HORIZONTAL
4	6142.019	-63.26	19.09	-44.17	-19.00	-25.17	HORIZONTAL
5	7263.015	-66.07	17.89	-48.18	-19.00	-29.18	HORIZONTAL
6	9952.717	-66.70	19.82	-46.88	-19.00	-27.88	HORIZONTAL



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Lower 700MHz Band_Vertical_30MHz~1GHz



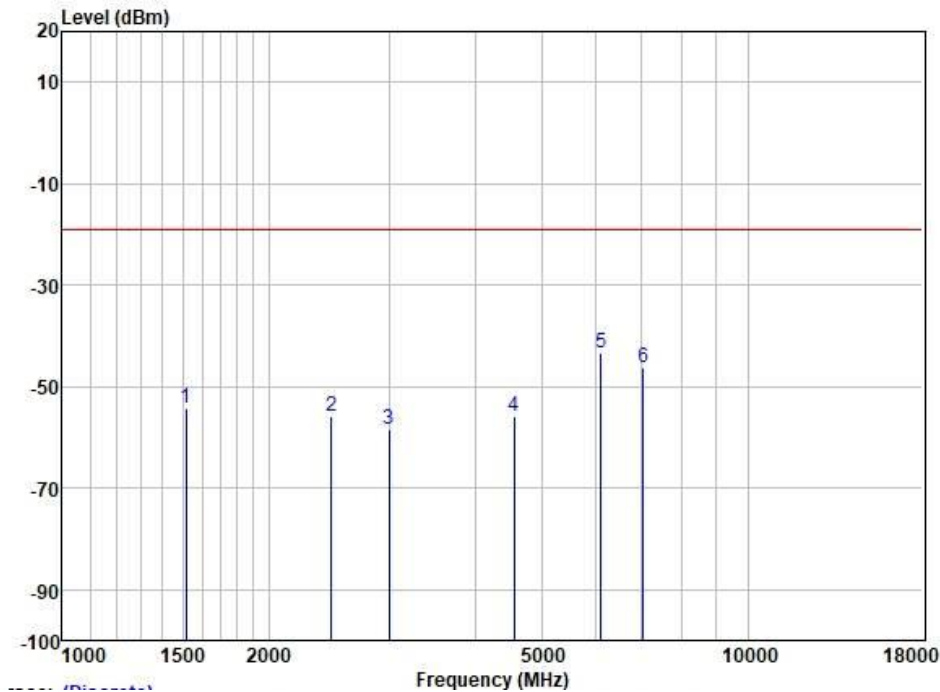
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	62.213	-77.06	-3.13	-80.19	-19.00	-61.19	VERTICAL
2	95.762	-71.76	-5.78	-77.54	-19.00	-58.54	VERTICAL
3	180.017	-76.06	-3.94	-80.00	-19.00	-61.00	VERTICAL
4	406.088	-76.76	0.00	-76.76	-19.00	-57.76	VERTICAL
5	478.846	-76.08	1.91	-74.17	-19.00	-55.17	VERTICAL
6	900.147	-77.80	10.65	-67.15	-19.00	-48.15	VERTICAL



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Lower 700MHz Band_Vertical_above 1GHz



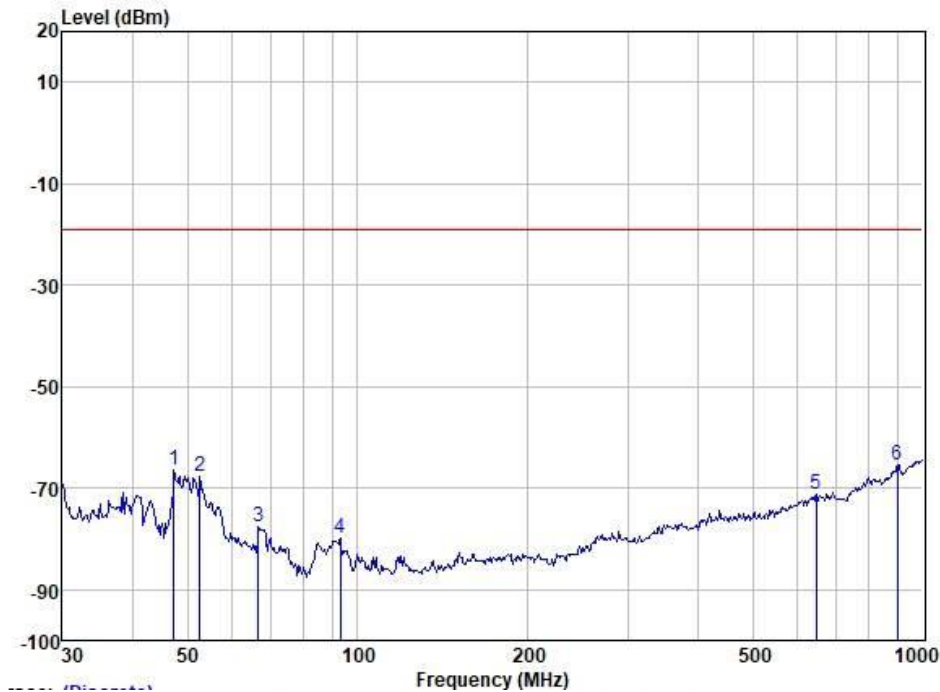
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1516.210	-60.79	6.70	-54.09	-19.00	-35.09	VERTICAL
2	2471.157	-64.81	8.94	-55.87	-19.00	-36.87	VERTICAL
3	2999.187	-61.32	2.94	-58.38	-19.00	-39.38	VERTICAL
4	4560.559	-62.33	6.56	-55.77	-19.00	-36.77	VERTICAL
5	6106.616	-62.61	19.21	-43.40	-19.00	-24.40	VERTICAL
6	7035.727	-66.33	19.96	-46.37	-19.00	-27.37	VERTICAL



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Upper 700MHz Band_Horizontal_30MHz~1GHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	47.326	-63.19	-3.15	-66.34	-19.00	-47.34	HORIZONTAL
2	52.575	-66.32	-1.50	-67.82	-19.00	-48.82	HORIZONTAL
3	66.733	-72.20	-5.49	-77.69	-19.00	-58.69	HORIZONTAL
4	93.113	-70.02	-9.72	-79.74	-19.00	-60.74	HORIZONTAL
5	647.386	-74.88	3.77	-71.11	-19.00	-52.11	HORIZONTAL
6	900.147	-74.91	9.45	-65.46	-19.00	-46.46	HORIZONTAL

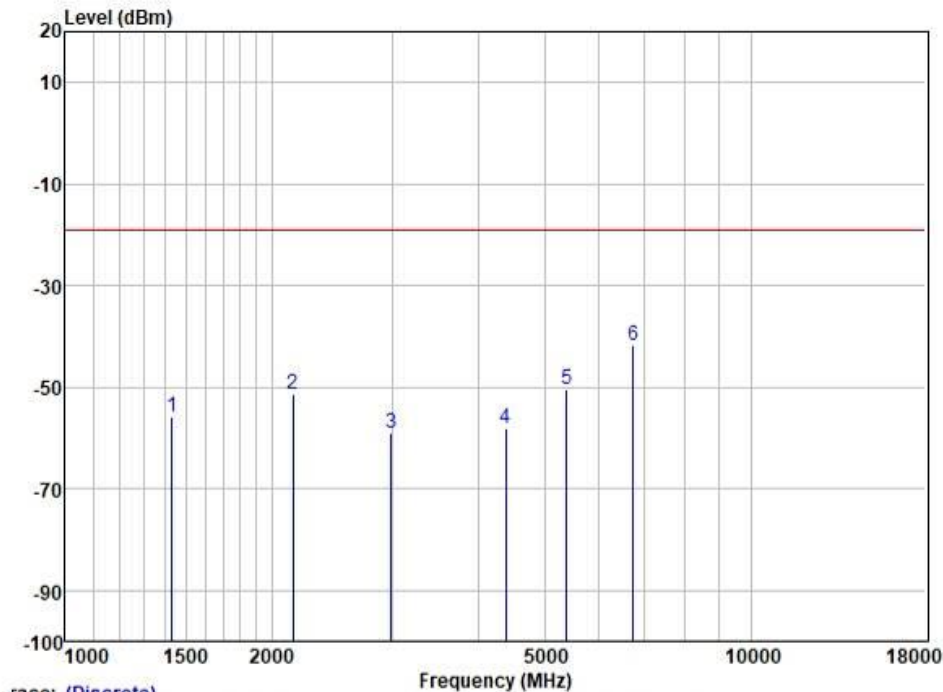


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Upper 700MHz Band_Horizontal_above 1GHz



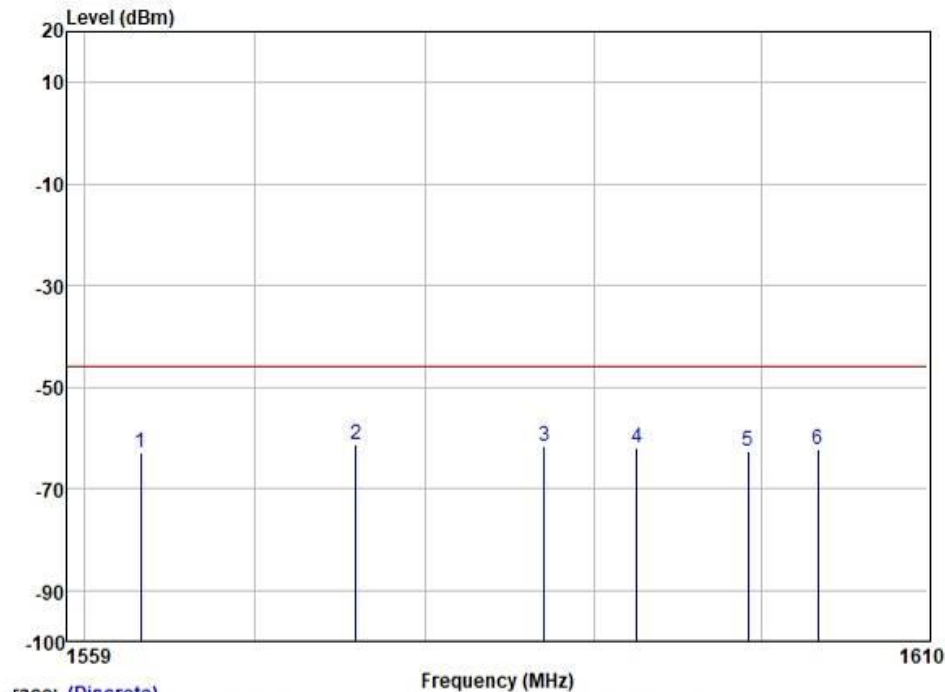
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1431.047	-60.50	4.63	-55.87	-19.00	-36.87	HORIZONTAL
2	2151.034	-60.82	9.34	-51.48	-19.00	-32.48	HORIZONTAL
3	2990.531	-61.80	2.60	-59.20	-19.00	-40.20	HORIZONTAL
4	4392.376	-62.41	4.45	-57.96	-19.00	-38.96	HORIZONTAL
5	5392.918	-63.25	12.96	-50.29	-19.00	-31.29	HORIZONTAL
6	6737.207	-62.24	20.35	-41.89	-19.00	-22.89	HORIZONTAL



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Upper 700MHz Band_Horizontal_1559-1610MHz



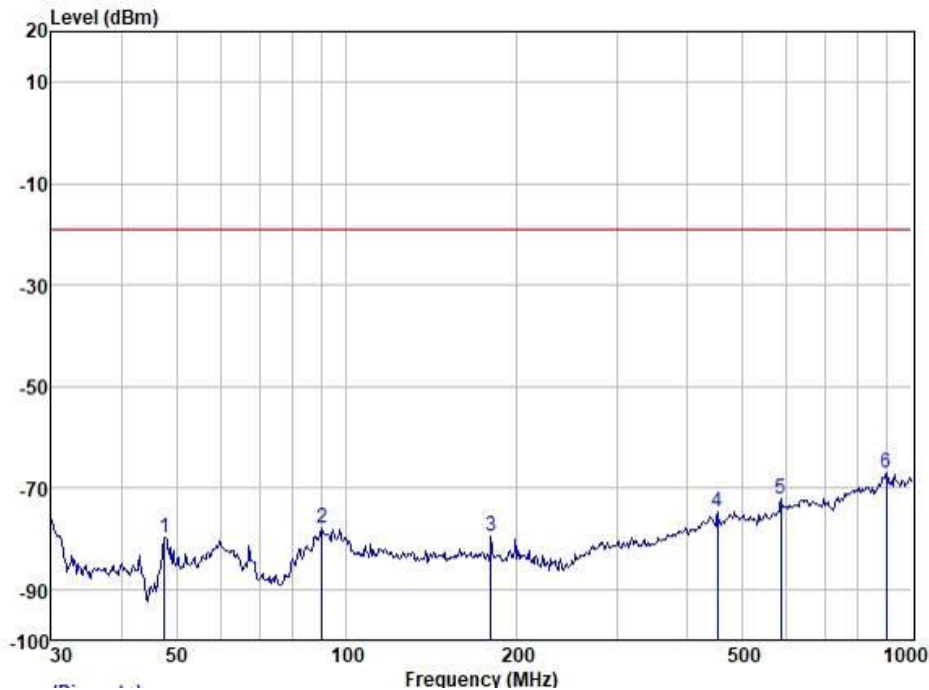
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1563.271	-67.90	5.07	-62.83	-46.00	-16.83	HORIZONTAL
2	1575.902	-66.30	5.12	-61.18	-46.00	-15.18	HORIZONTAL
3	1587.051	-66.75	5.19	-61.56	-46.00	-15.56	HORIZONTAL
4	1592.578	-67.19	5.20	-61.99	-46.00	-15.99	HORIZONTAL
5	1599.205	-67.66	5.22	-62.44	-46.00	-16.44	HORIZONTAL
6	1603.380	-67.45	5.24	-62.21	-46.00	-16.21	HORIZONTAL



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Upper 700MHz Band_Vertical_30MHz~1GHz



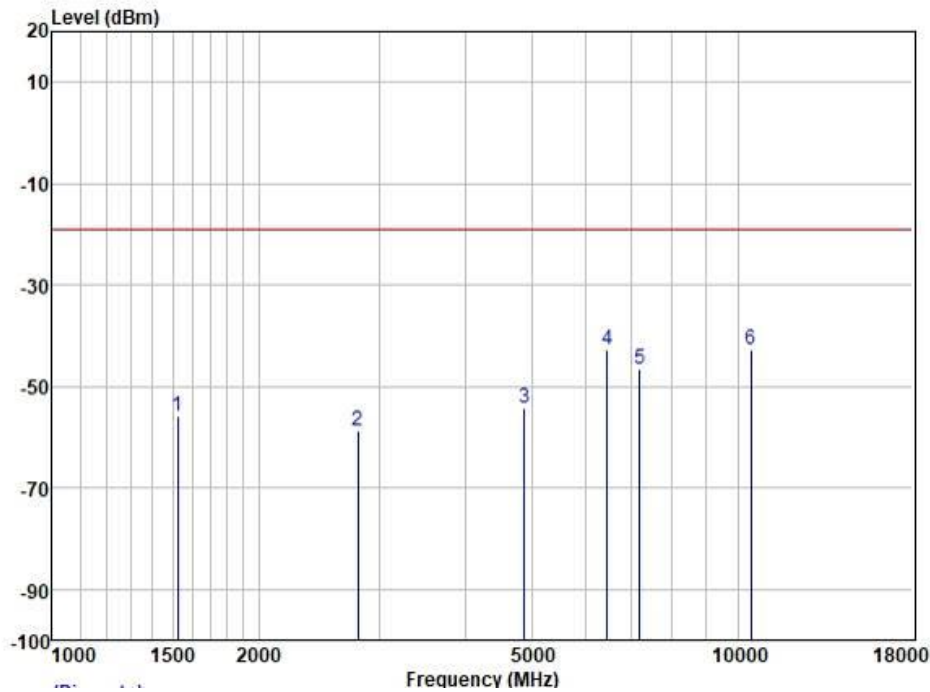
	Freq	Read	Correction	Limit	Over	
	MHz	Level	Factor	Line	Limit	Pol/Phase
		dBm	dB	dBm	dB	
1	47.659	-70.47	-9.51	-79.98	-19.00	-60.98 VERTICAL
2	90.537	-70.72	-7.26	-77.98	-19.00	-58.98 VERTICAL
3	180.017	-75.71	-3.94	-79.65	-19.00	-60.65 VERTICAL
4	452.720	-76.11	1.53	-74.58	-19.00	-55.58 VERTICAL
5	586.844	-75.48	3.41	-72.07	-19.00	-53.07 VERTICAL
6	900.147	-77.59	10.65	-66.94	-19.00	-47.94 VERTICAL



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Upper 700MHz Band_Vertical_above 1GHz



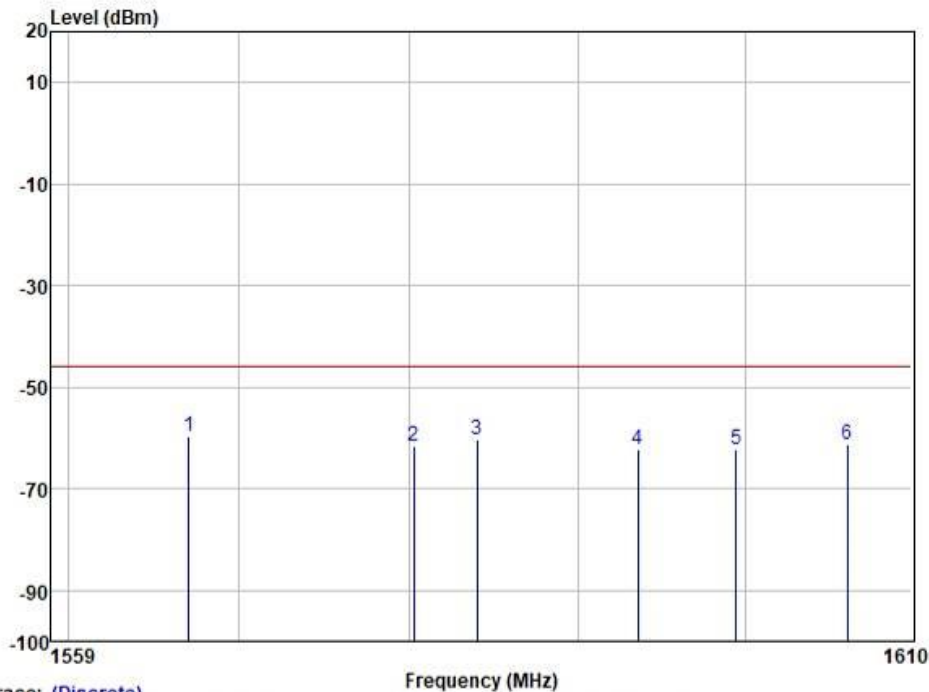
	Freq	Read	Correction	Limit	Over	
	MHz	Level	Factor	Line	Limit	Pol/Phase
		dBm	dB	dBm	dB	
1	1525.000	-62.28	6.54	-55.74	-19.00	VERTICAL
2	2790.113	-62.93	4.12	-58.81	-19.00	VERTICAL
3	4888.151	-63.65	9.46	-54.19	-19.00	VERTICAL
4	6451.353	-62.45	19.71	-42.74	-19.00	VERTICAL
5	7200.309	-65.71	19.04	-46.67	-19.00	VERTICAL
6	10453.970	-66.99	24.28	-42.71	-19.00	VERTICAL



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Upper 700MHz Band_Vertical_1559-1610Mhz



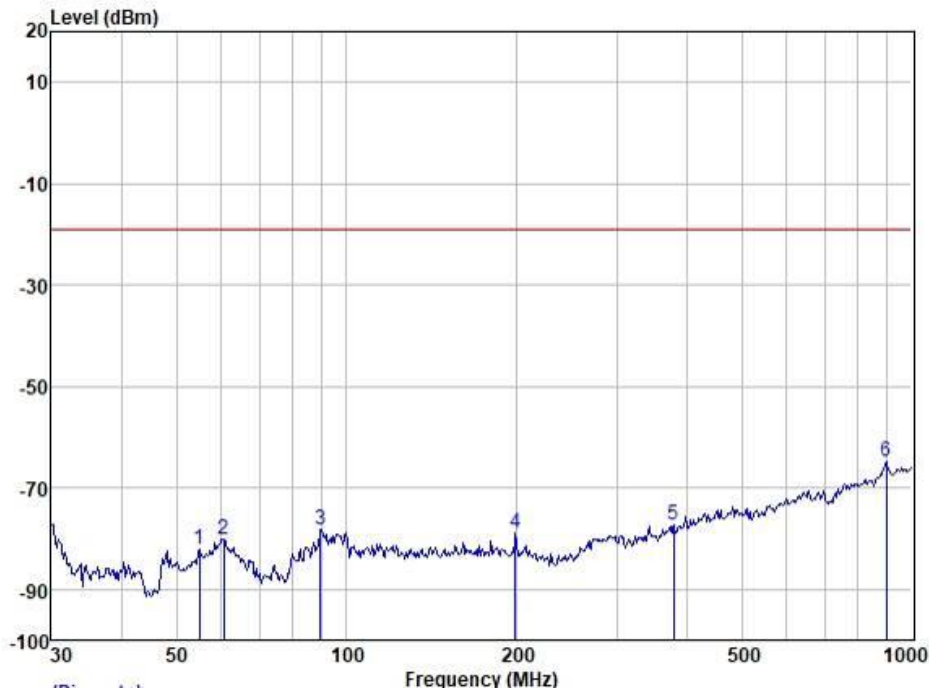
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1567.050	-65.30	5.51	-59.79	-46.00	-13.79	VERTICAL
2	1580.271	-66.71	5.21	-61.50	-46.00	-15.50	VERTICAL
3	1584.040	-65.47	5.13	-60.34	-46.00	-14.34	VERTICAL
4	1593.604	-67.10	4.97	-62.13	-46.00	-16.13	VERTICAL
5	1599.462	-67.15	4.89	-62.26	-46.00	-16.26	VERTICAL
6	1606.118	-66.27	4.85	-61.42	-46.00	-15.42	VERTICAL



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Cellular Band_Horizontal_30MHz~1GHz



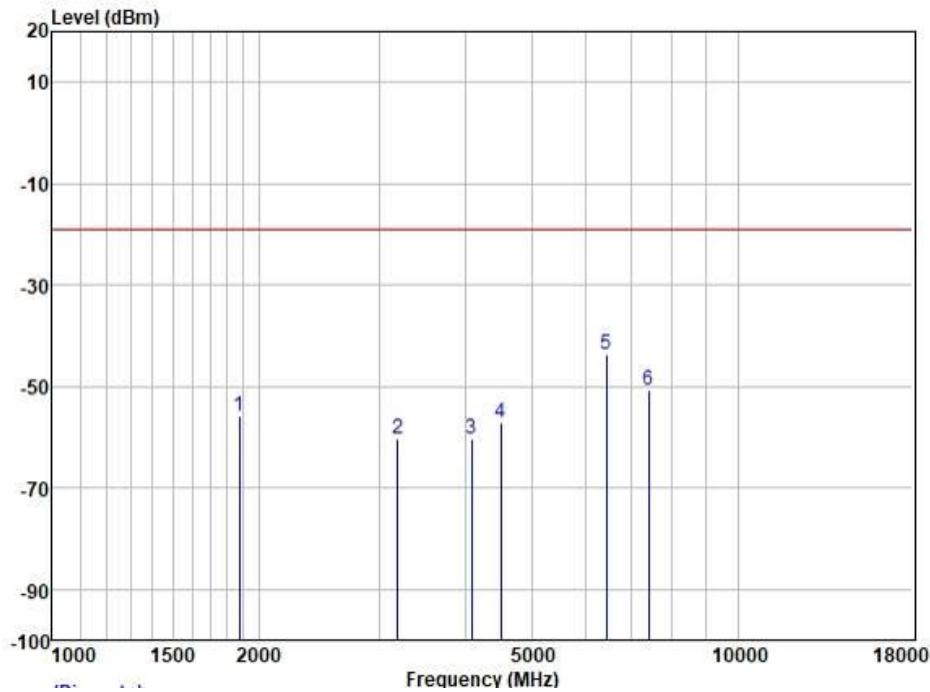
	Freq	Read	Correction	Limit	Over	
	MHz	Level	Factor	Line	Limit	Pol/Phase
		dBm	dB	dBm	dB	
1	54.835	-80.23	-1.89	-82.12	-19.00	-63.12 HORIZONTAL
2	60.492	-77.65	-2.63	-80.28	-19.00	-61.28 HORIZONTAL
3	89.905	-68.32	-9.80	-78.12	-19.00	-59.12 HORIZONTAL
4	198.588	-72.13	-6.70	-78.83	-19.00	-59.83 HORIZONTAL
5	378.584	-75.98	-1.16	-77.14	-19.00	-58.14 HORIZONTAL
6	900.147	-74.33	9.45	-64.88	-19.00	-45.88 HORIZONTAL



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Cellular Band_Horizontal_above 1GHz



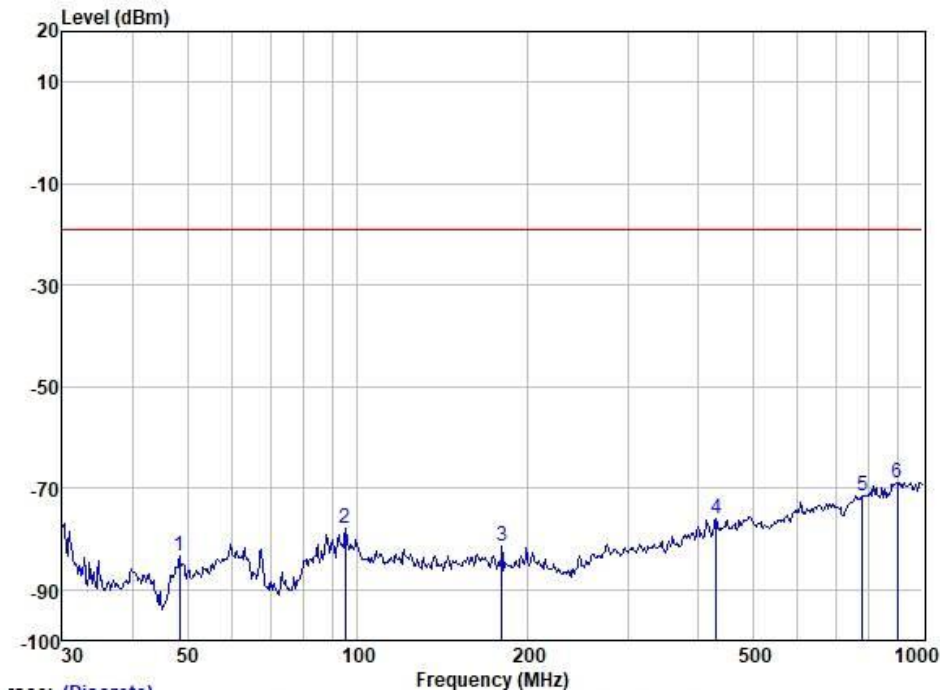
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1872.381	-62.19	6.27	-55.92	-19.00	-36.92	HORIZONTAL
2	3186.869	-62.45	2.24	-60.21	-19.00	-41.21	HORIZONTAL
3	4086.182	-63.69	3.29	-60.40	-19.00	-41.40	HORIZONTAL
4	4508.136	-63.34	6.13	-57.21	-19.00	-38.21	HORIZONTAL
5	6432.732	-63.21	19.55	-43.66	-19.00	-24.66	HORIZONTAL
6	7411.461	-67.30	16.43	-50.87	-19.00	-31.87	HORIZONTAL



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Cellular Band_Vertical_30MHz~1GHz



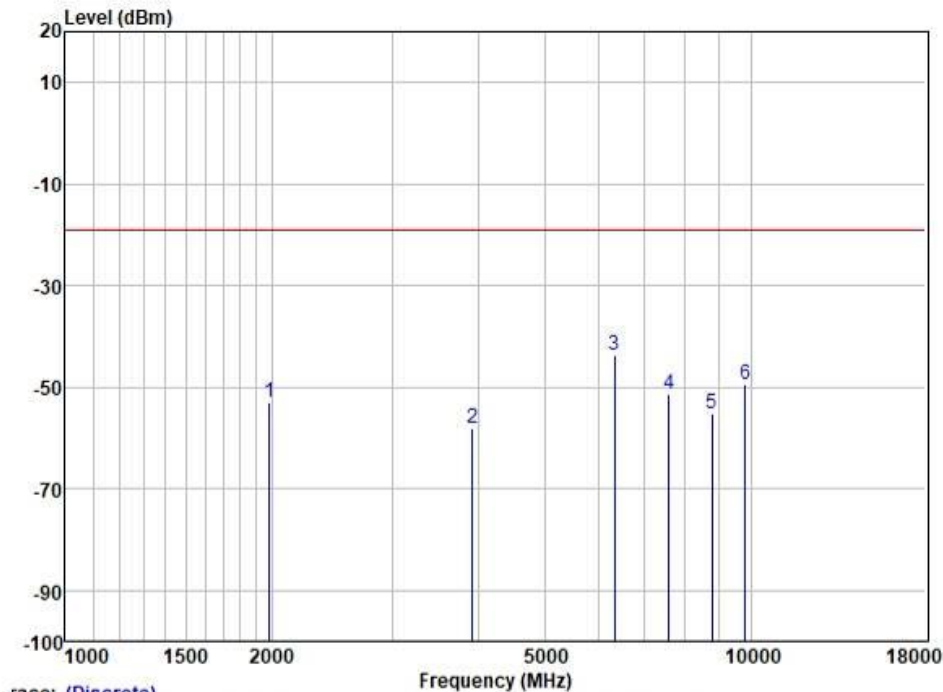
	Freq	Read	Correction	Limit	Over	
	MHz	Level	Factor	Line	Limit	Pol/Phase
		dBm	dB	dBm	dB	
1	48.332	-74.86	-8.49	-83.35	-19.00	-64.35 VERTICAL
2	95.093	-72.00	-5.91	-77.91	-19.00	-58.91 VERTICAL
3	180.017	-77.50	-3.94	-81.44	-19.00	-62.44 VERTICAL
4	431.032	-77.22	1.29	-75.93	-19.00	-56.93 VERTICAL
5	782.345	-78.41	7.05	-71.36	-19.00	-52.36 VERTICAL
6	900.147	-79.46	10.65	-68.81	-19.00	-49.81 VERTICAL



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Cellular Band_Vertical_above 1GHz



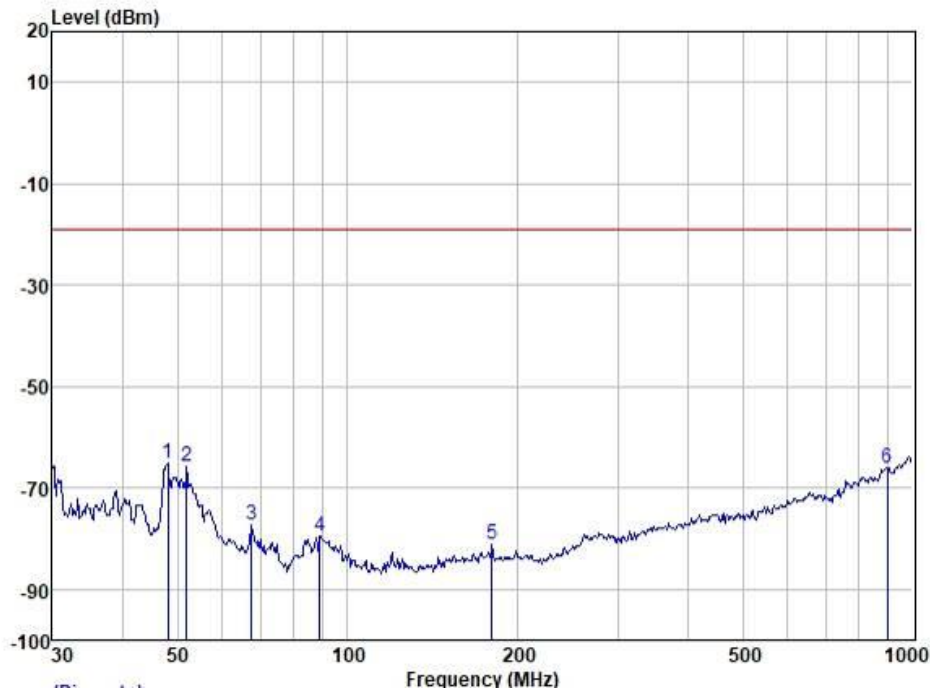
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1983.808	-61.43	8.38	-53.05	-19.00	-34.05	VERTICAL
2	3924.135	-61.38	3.26	-58.12	-19.00	-39.12	VERTICAL
3	6322.136	-62.80	19.18	-43.62	-19.00	-24.62	VERTICAL
4	7584.833	-67.56	16.36	-51.20	-19.00	-32.20	VERTICAL
5	8764.146	-69.44	14.33	-55.11	-19.00	-36.11	VERTICAL
6	9809.916	-68.38	18.95	-49.43	-19.00	-30.43	VERTICAL



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AWS-1 Band_Horizontal_30MHz~1GHz



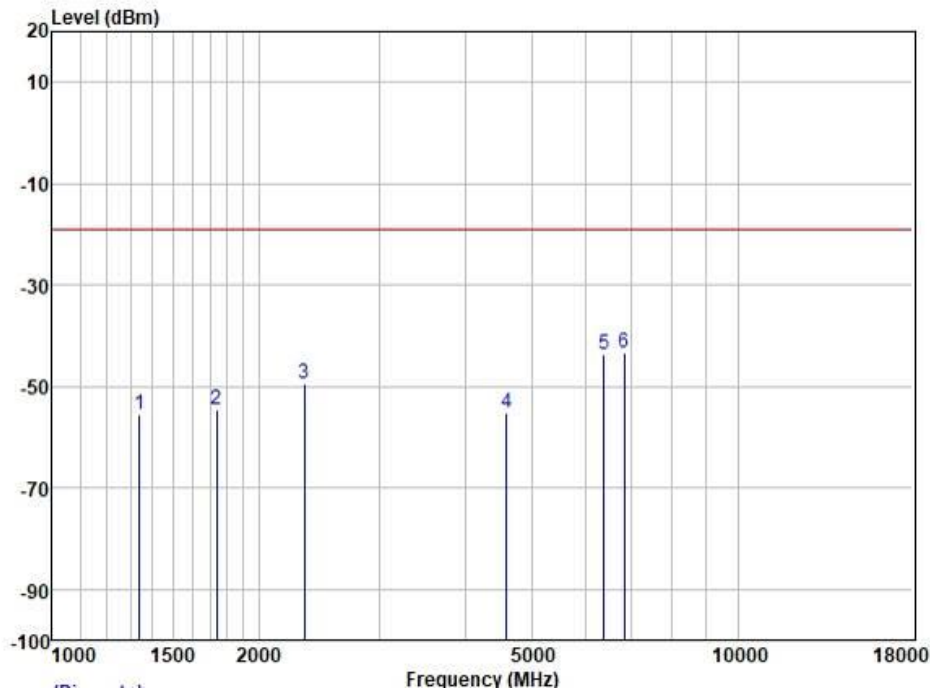
	Freq	Read	Correction	Limit	Over	
	MHz	Level	Factor	Line	Limit	Pol/Phase
		dBm	dB	dBm	dB	
1	47.994	-62.66	-2.48	-65.14	-19.00	-46.14 HORIZONTAL
2	51.843	-64.45	-1.42	-65.87	-19.00	-46.87 HORIZONTAL
3	67.675	-71.32	-5.83	-77.15	-19.00	-58.15 HORIZONTAL
4	89.276	-69.60	-9.83	-79.43	-19.00	-60.43 HORIZONTAL
5	180.017	-75.26	-6.01	-81.27	-19.00	-62.27 HORIZONTAL
6	900.147	-75.47	9.45	-66.02	-19.00	-47.02 HORIZONTAL



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AWS-1 Band_Horizontal_above 1GHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1339.006	-59.70	4.15	-55.55	-19.00	-36.55	HORIZONTAL
2	1736.829	-60.77	6.17	-54.60	-19.00	-35.60	HORIZONTAL
3	2332.356	-59.14	9.57	-49.57	-19.00	-30.57	HORIZONTAL
4	4600.276	-62.58	7.32	-55.26	-19.00	-36.26	HORIZONTAL
5	6377.195	-63.18	19.40	-43.78	-19.00	-24.78	HORIZONTAL
6	6835.278	-63.60	20.28	-43.32	-19.00	-24.32	HORIZONTAL



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