



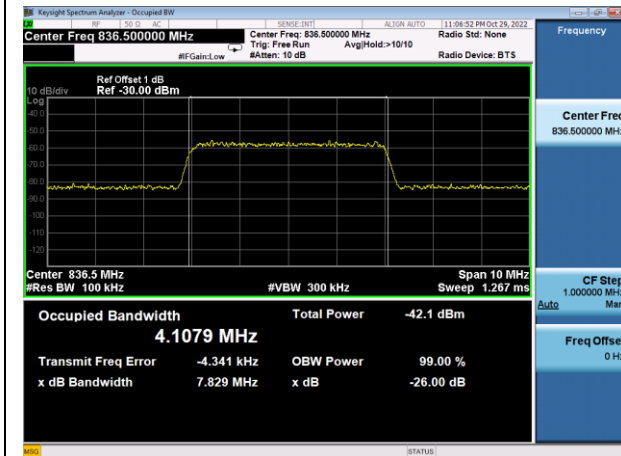
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Page: 76 of 115
FCC ID: 2AYTR-SZZJ2

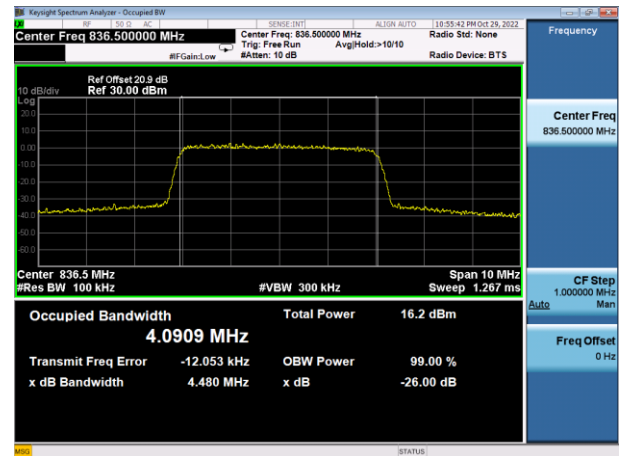
UPLINK_4.1MHz AWGN signal type

Cellular Band

Input

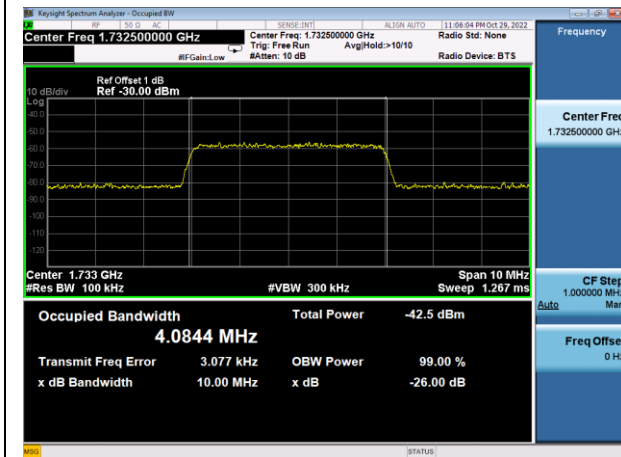


Output

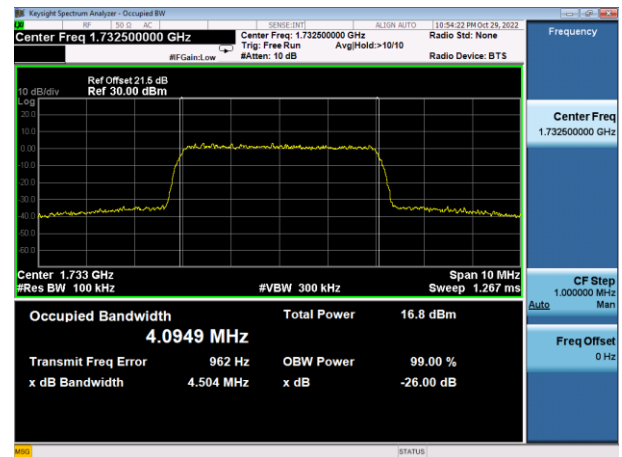


AWS-1 Band

Input



Output



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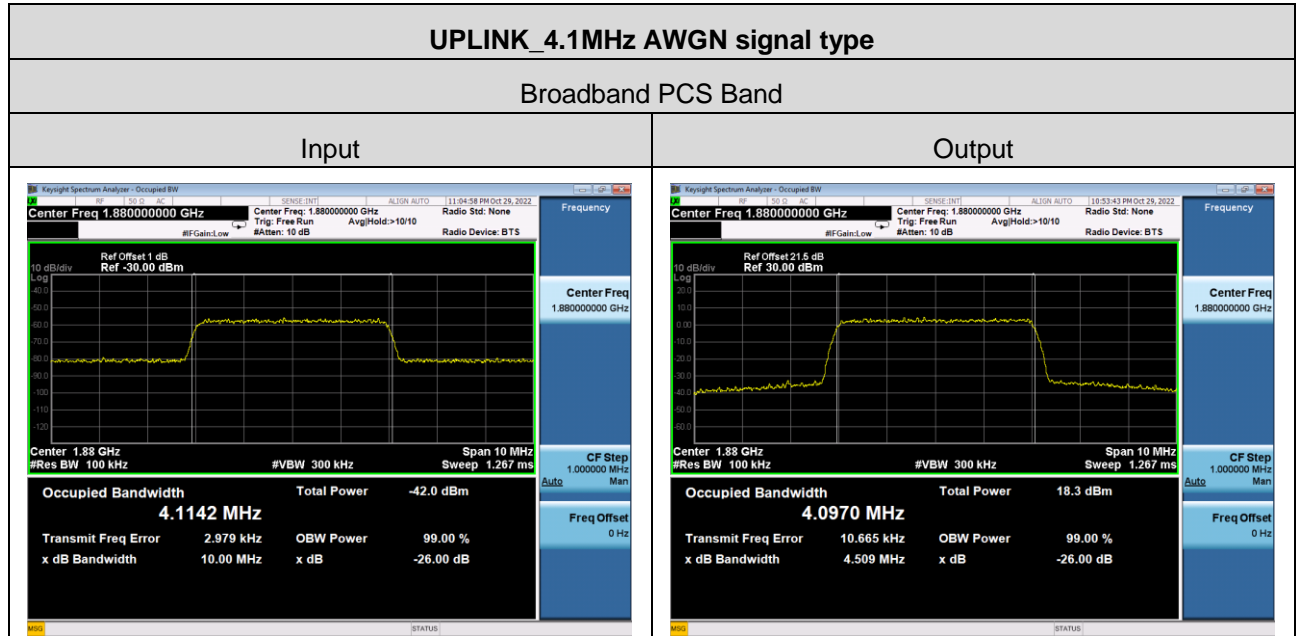
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Page: 78 of 115
FCC ID: 2AYTR-SZZJ2

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 (s)	Verdict
DOWNLINK	700MHz	0.230	≤1	-15.8	62.72	≥60	5	≤5	PASS
	Cellular	0.220		-29.5	62.00		5		PASS
	AWS-1	0.215		-14.6	62.16		5		PASS
	Broadband PCS	0.205		-20.3	62.52		5		PASS
UPLINK	Lower 700MHz	0.270	≤0.3	0.9	65.31	≥60	5	≤5	PASS
	Upper 700MHz	0.145		-2.4	65.79		5		PASS
	Cellular	0.145		-3.7	63.15		5		PASS
	AWS-1	0.200		-15.1	63.31		5		PASS
	Broadband PCS	0.200		-4.3	63.07		5		PASS



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Page: 79 of 115
FCC ID: 2AYTR-SZZJ2

Oscillation Mitigation or Shutdown						
Path	Band	Max. Gain (dB)	Isolation (dB)	Difference (dB)	Limit (dB)	Verdict
DOWNLINK	700MHz	54.9	+5	4.8	≤12	PASS
			+4	6.4		PASS
			+3	8.9		PASS
			+2	(shutdown)		PASS
			+1			PASS
			0			PASS
			-1			PASS
			-2			PASS
			-3			PASS
			-4			PASS
			-5			PASS
	Cellular	58.0	+5	3.2	≤12	PASS
			+4	5.4		PASS
			+3	6.0		PASS
			+2	6.8		PASS
			+1	7.1		PASS
			0	9.7		PASS
			-1	10.8		PASS
			-2	(shutdown)		PASS
			-3			PASS
			-4			PASS
			-5			PASS



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Page: 80 of 115
FCC ID: 2AYTR-SZZJ2

Oscillation Mitigation or Shutdown						
Path	Band	Max. Gain (dB)	Isolation (dB)	Difference (dB)	Limit (dB)	Verdict
DOWNLINK	AWS-1	60.8	+5	1.9	≤12	PASS
			+4	3.7		PASS
			+3	6.3		PASS
			+2	10.8		PASS
			+1	11.3		PASS
			0	(shutdown)		PASS
			-1			PASS
			-2			PASS
			-3			PASS
			-4			PASS
			-5			PASS
	Broadband PCS	52.0	+5	5.5	≤12	PASS
			+4	7.1		PASS
			+3	7.5		PASS
			+2	8.7		PASS
			+1	10.2		PASS
			0	10.7		PASS
			-1	11.3		PASS
			-2	(shutdown)		PASS
			-3			PASS
			-4			PASS
			-5			PASS



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Oscillation Mitigation or Shutdown						
Path	Band	Max. Gain (dB)	Isolation (dB)	Difference (dB)	Limit (dB)	Verdict
UPLINK	Lower 700MHz	58.9	+5	2.6	≤12	PASS
			+4	5.8		PASS
			+3	7.4		PASS
			+2	8.9		PASS
			+1	10.2		PASS
			0	(shutdown)		PASS
			-1			PASS
			-2			PASS
			-3			PASS
			-4			PASS
			-5			PASS
	Upper 700MHz	58.7	+5	4.3	≤12	PASS
			+4	6.1		PASS
			+3	6.9		PASS
			+2	7.6		PASS
			+1	9.4		PASS
			0	10.3		PASS
			-1	11.1		PASS
			-2	(shutdown)		PASS
			-3			PASS
			-4			PASS
			-5			PASS



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Page: 82 of 115
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Oscillation Mitigation or Shutdown						
Path	Band	Max. Gain (dB)	Isolation (dB)	Difference (dB)	Limit (dB)	Verdict
UPLINK	Cellular	58.9	+5	3.3	≤12	PASS
			+4	5.1		PASS
			+3	5.6		PASS
			+2	7.9		PASS
			+1	10.1		PASS
			0	(shutdown)		PASS
			-1			PASS
			-2			PASS
			-3			PASS
			-4			PASS
			-5			PASS
	AWS-1	62.4	+5	3.2	≤12	PASS
			+4	4.4		PASS
			+3	4.9		PASS
			+2	5.8		PASS
			+1	7.1		PASS
			0	7.7		PASS
			-1	9.0		PASS
			-2	9.3		PASS
			-3	(shutdown)		PASS
			-4			PASS
			-5			PASS



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Oscillation Mitigation or Shutdown						
Path	Band	Max. Gain (dB)	Isolation (dB)	Difference (dB)	Limit (dB)	Verdict
UPLINK	Broadband PCS	61.0	+5	4.4	≤12	PASS
			+4	5.1		PASS
			+3	5.8		PASS
			+2	6.8		PASS
			+1	9.2		PASS
			0	(shutdown)		PASS
			-1			PASS
			-2			PASS
			-3			PASS
			-4			PASS
			-5			PASS

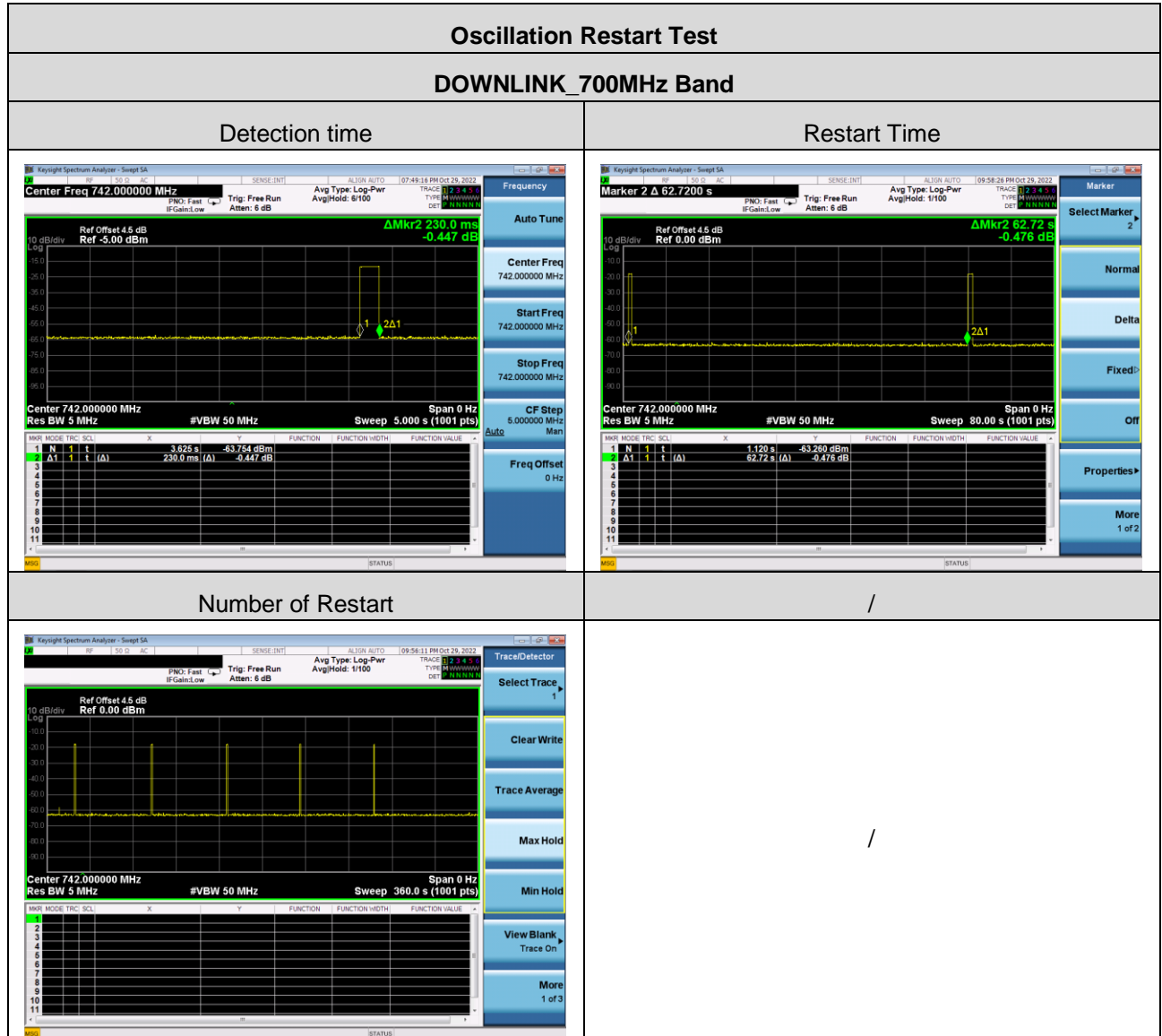


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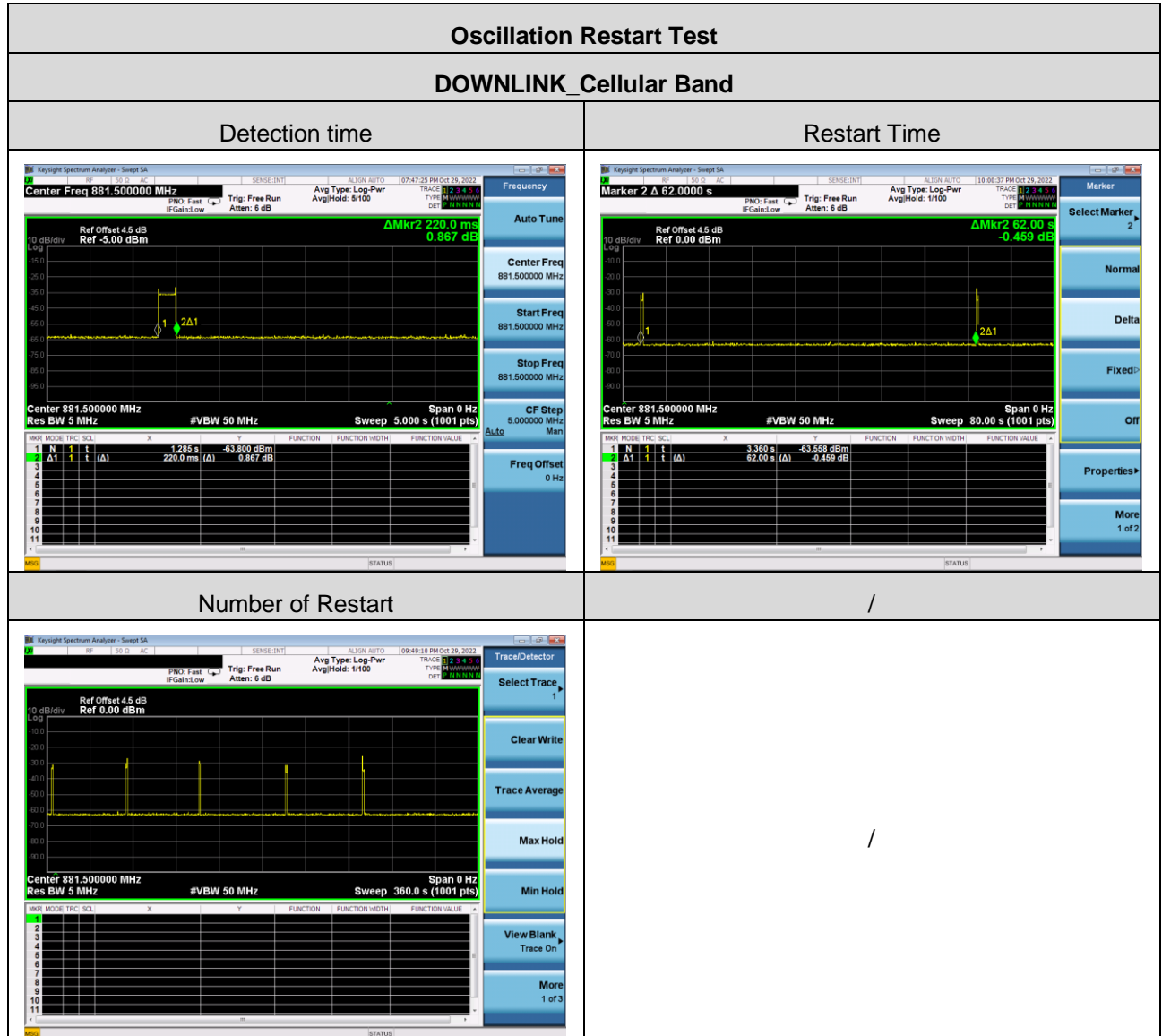
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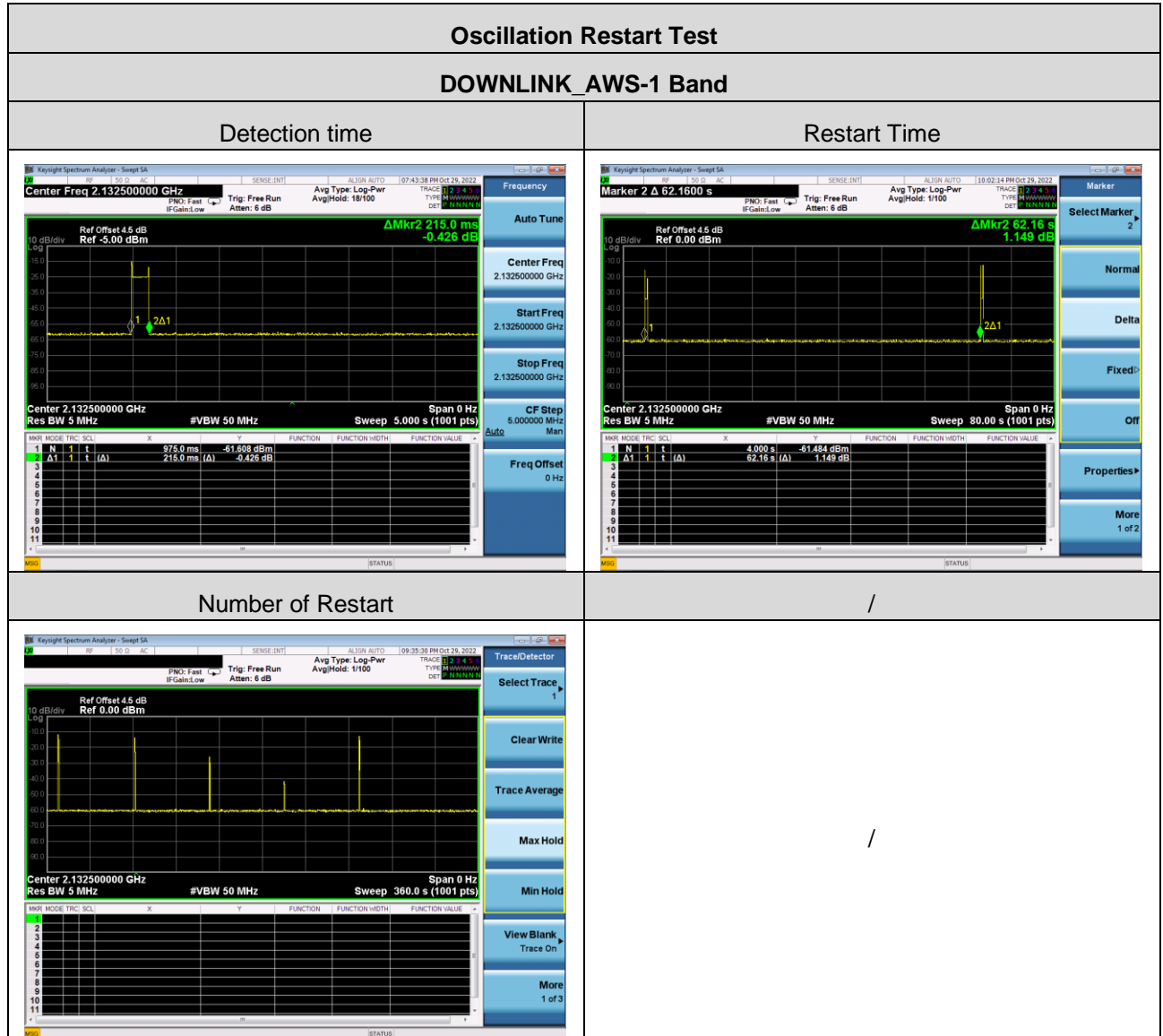
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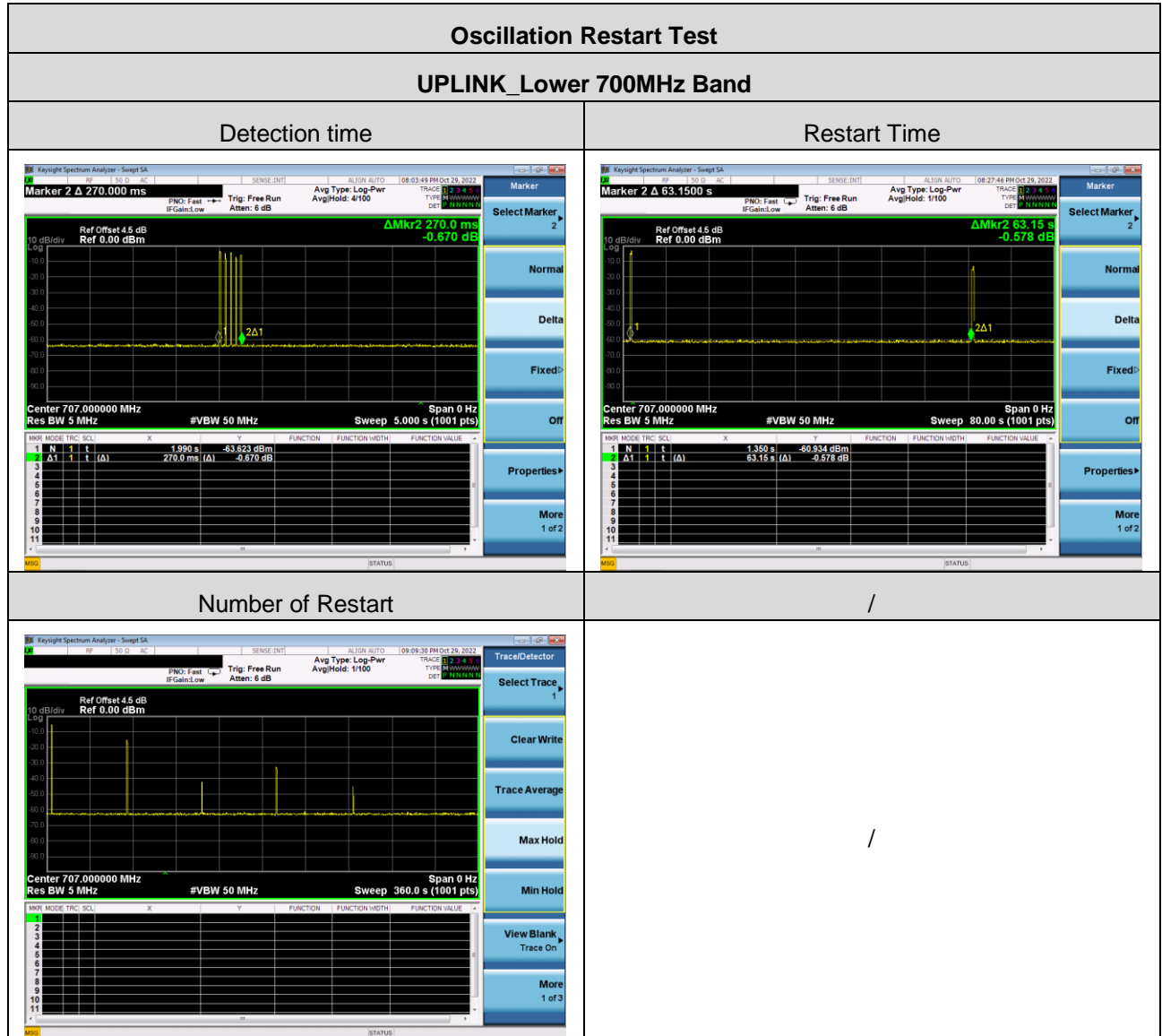


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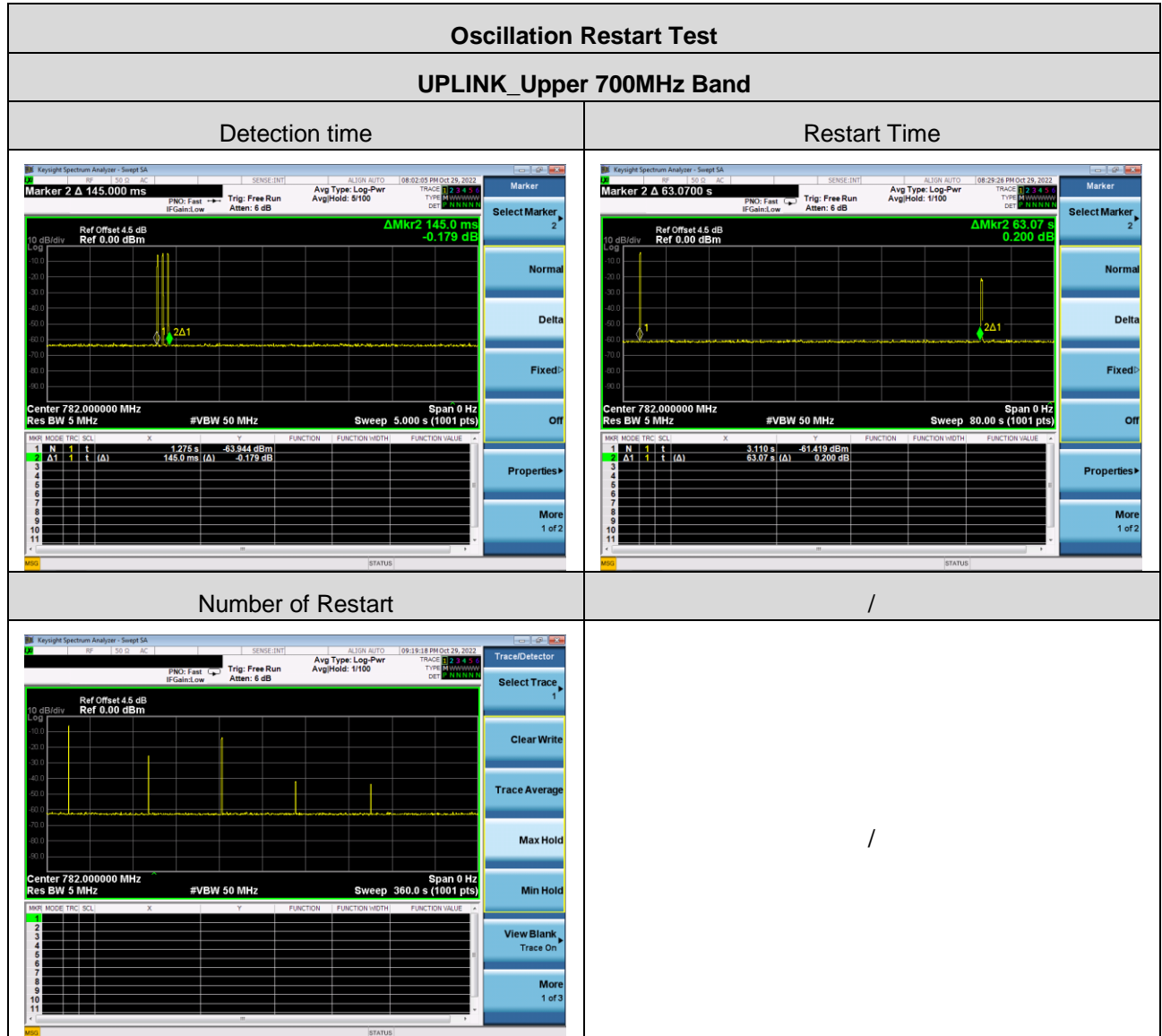






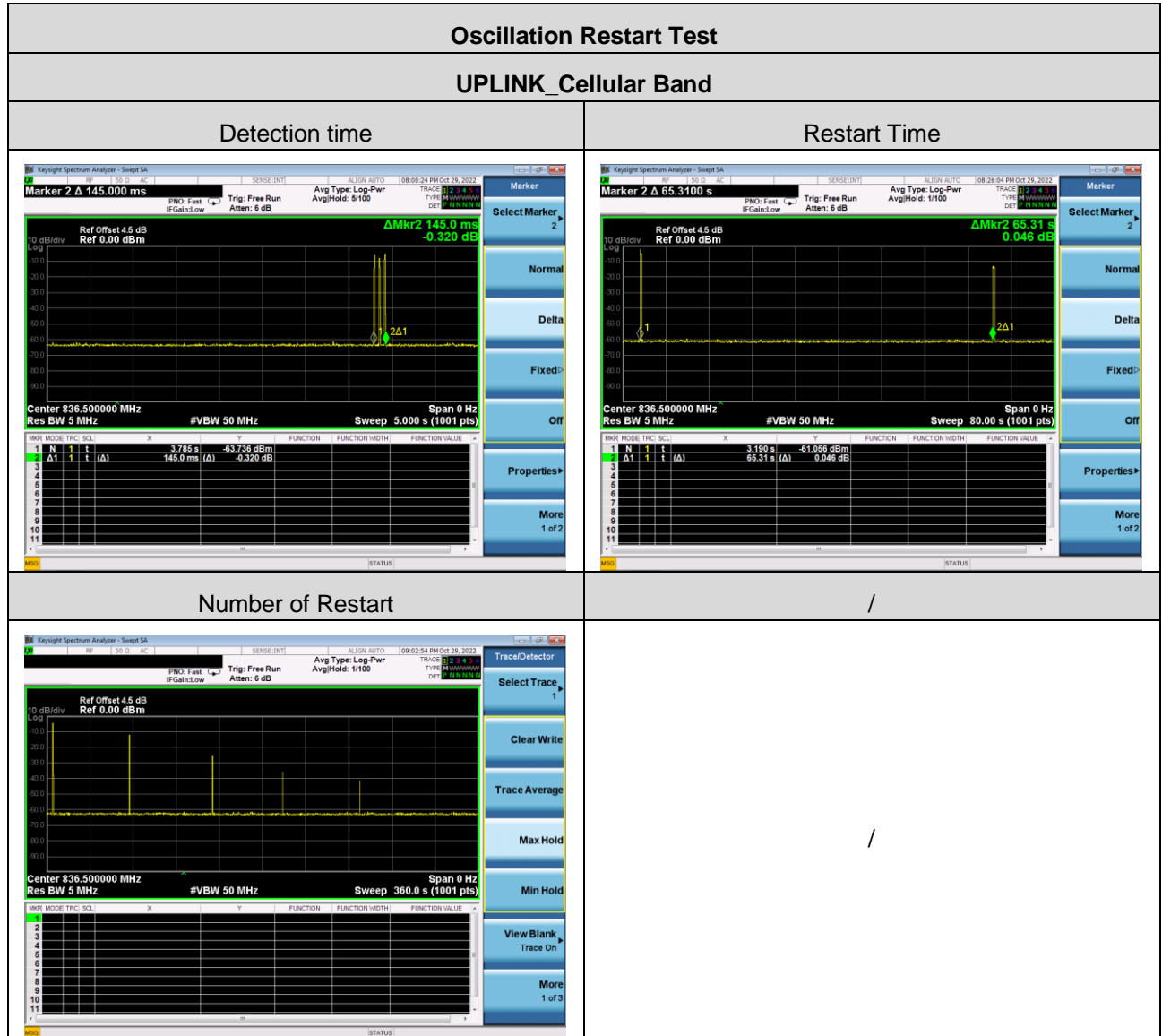
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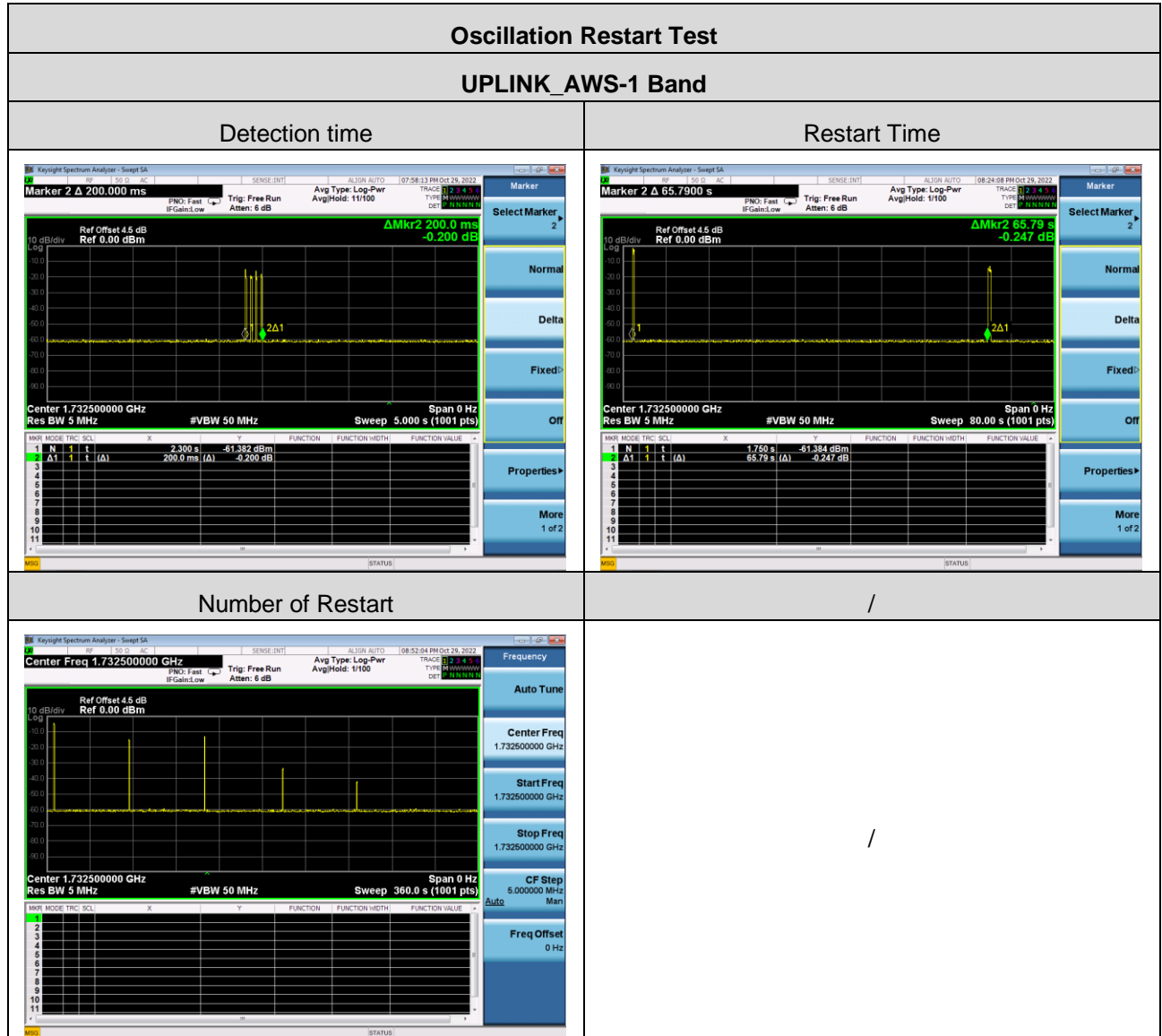
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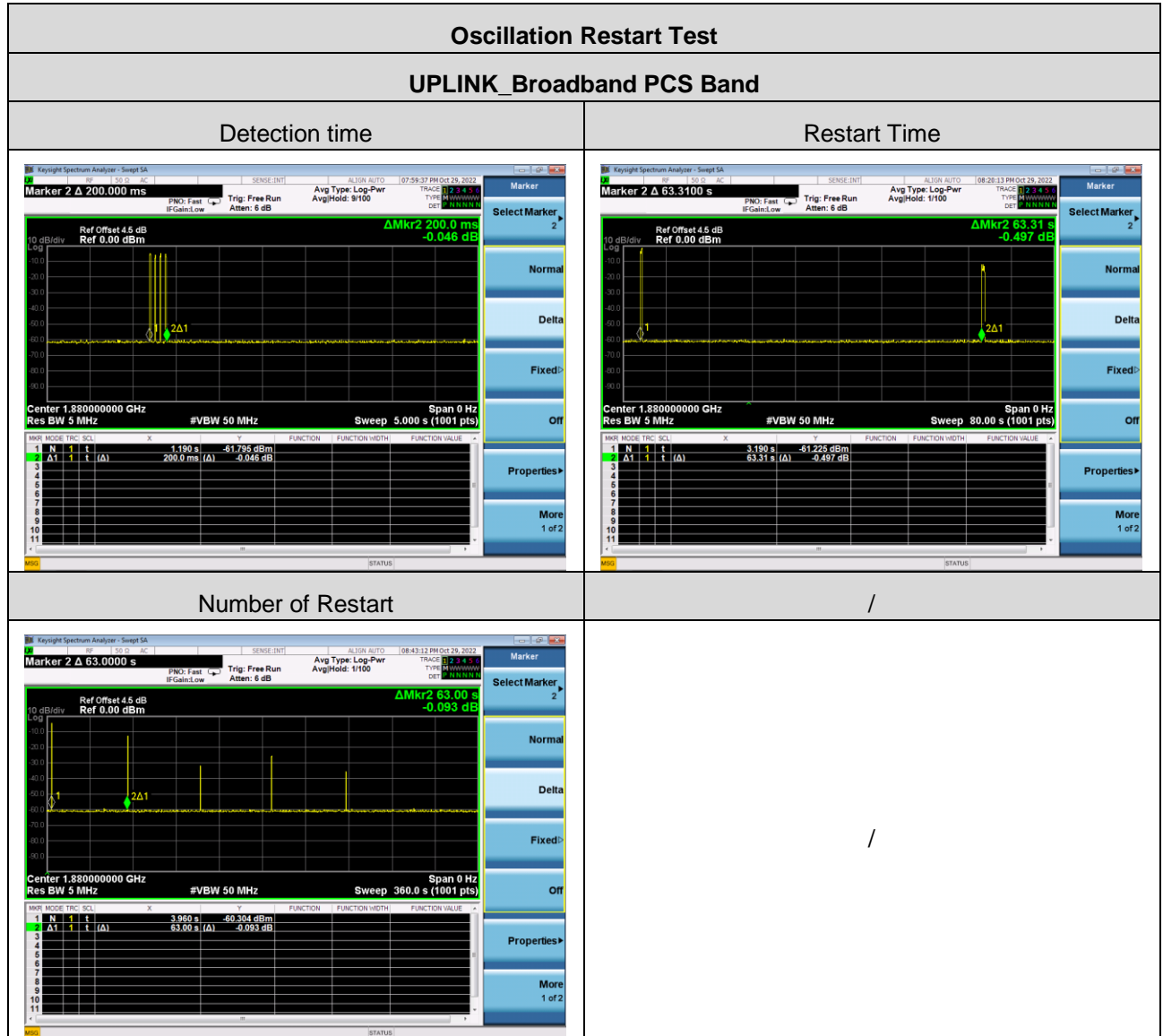
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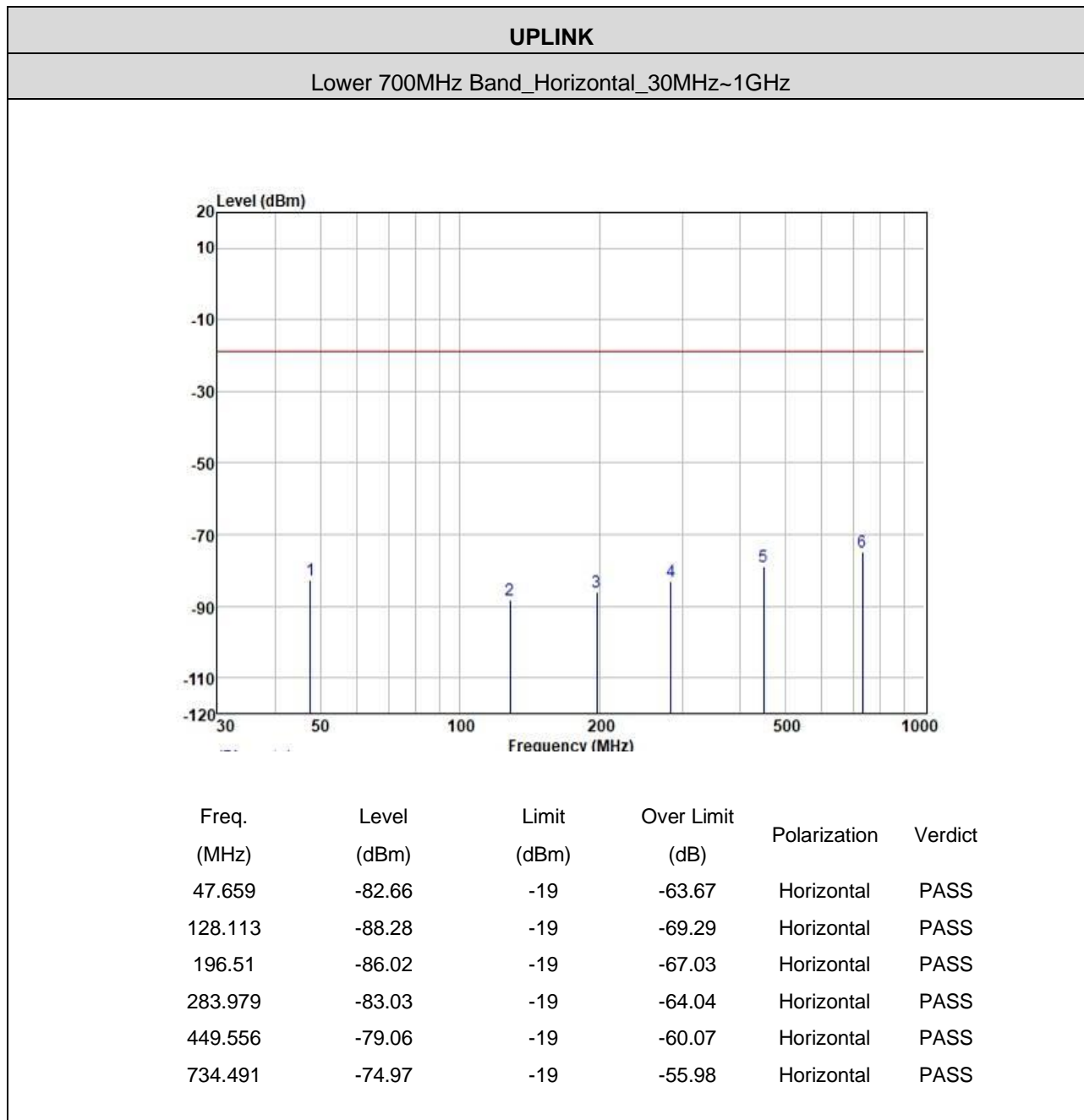


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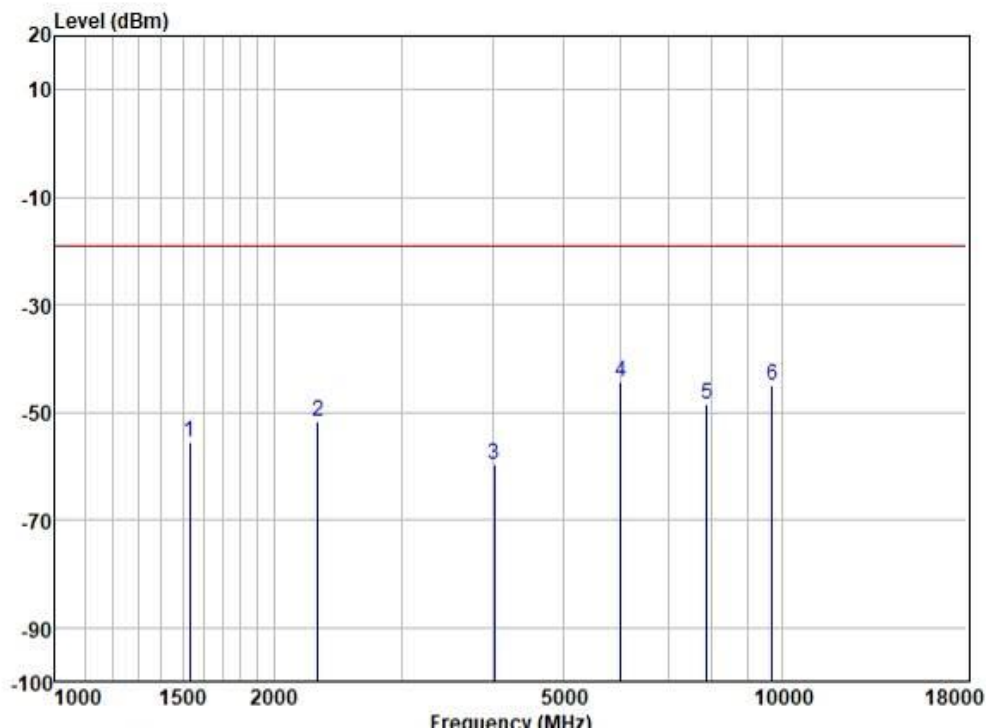
12 Radiated spurious emissions



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Lower 700MHz Band_Horizontal_above 1GHz



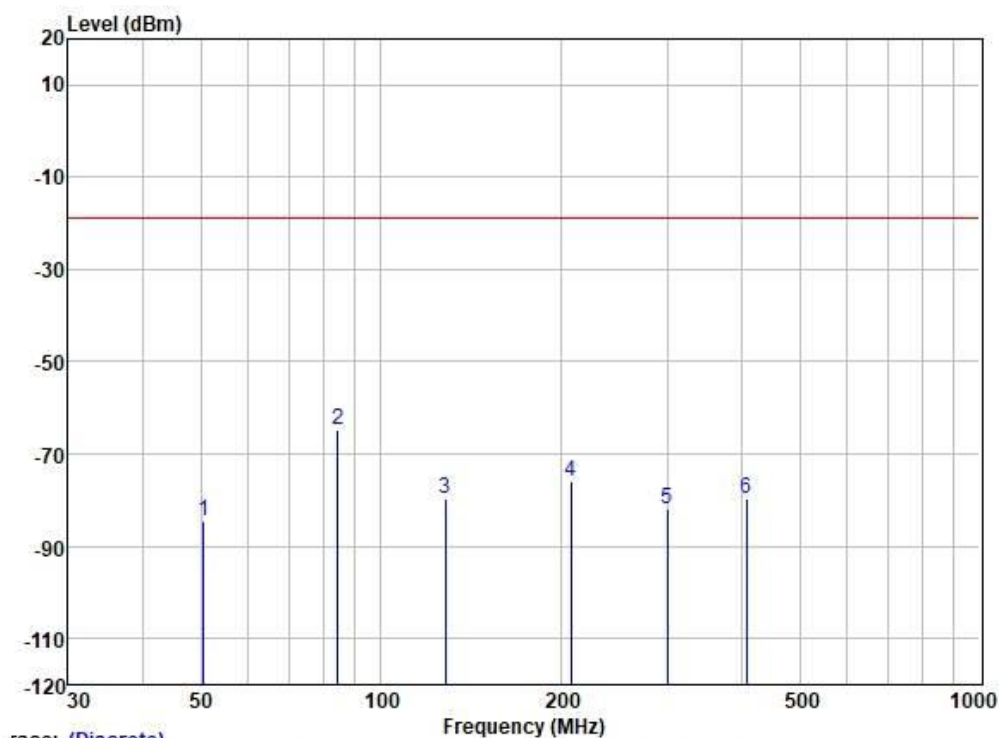
Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
1533.841	-55.6	-19	-36.61	Horizontal	PASS
2298.892	-51.54	-19	-32.55	Horizontal	PASS
4027.554	-59.79	-19	-40.8	Horizontal	PASS
6001.626	-44.22	-19	-25.23	Horizontal	PASS
7898.049	-48.54	-19	-29.55	Horizontal	PASS
9697.151	-44.95	-19	-25.96	Horizontal	PASS



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Lower 700MHz Band_Vertical_30MHz~1GHz



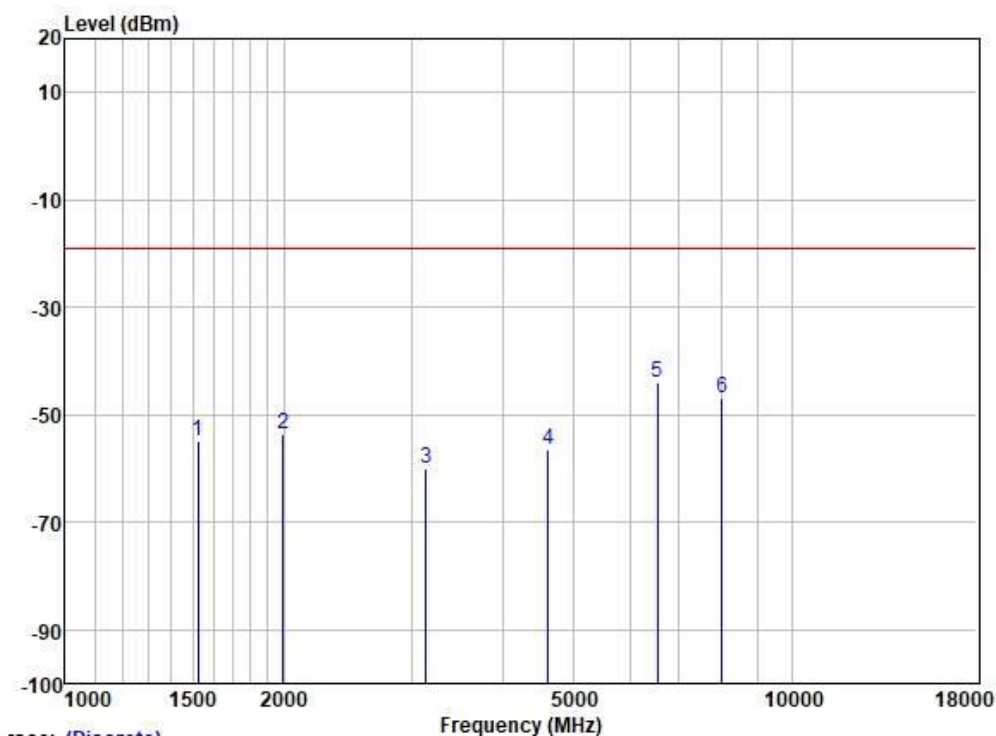
Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
50.586	-84.5	-19	-65.51	Vertical	PASS
84.702	-64.69	-19	-45.7	Vertical	PASS
128.113	-79.81	-19	-60.82	Vertical	PASS
207.123	-75.88	-19	-56.89	Vertical	PASS
300.367	-82.01	-19	-63.02	Vertical	PASS
407.515	-79.62	-19	-60.63	Vertical	PASS



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Lower 700MHz Band_Vertical_above 1GHz



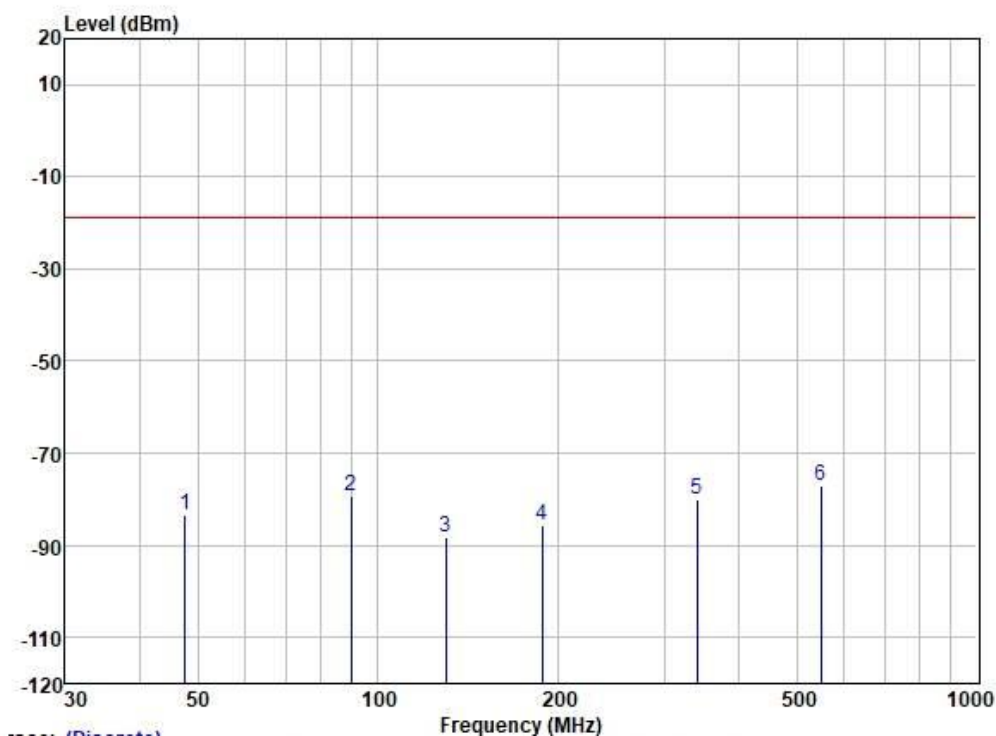
Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
1525	-54.84	-19	-35.85	Vertical	PASS
1995.309	-53.76	-19	-34.77	Vertical	PASS
3141.145	-59.85	-19	-40.86	Vertical	PASS
4626.946	-56.51	-19	-37.52	Vertical	PASS
6545.263	-43.97	-19	-24.98	Vertical	PASS
8013.02	-46.74	-19	-27.75	Vertical	PASS



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Upper 700MHz Band_Horizontal_30MHz~1GHz

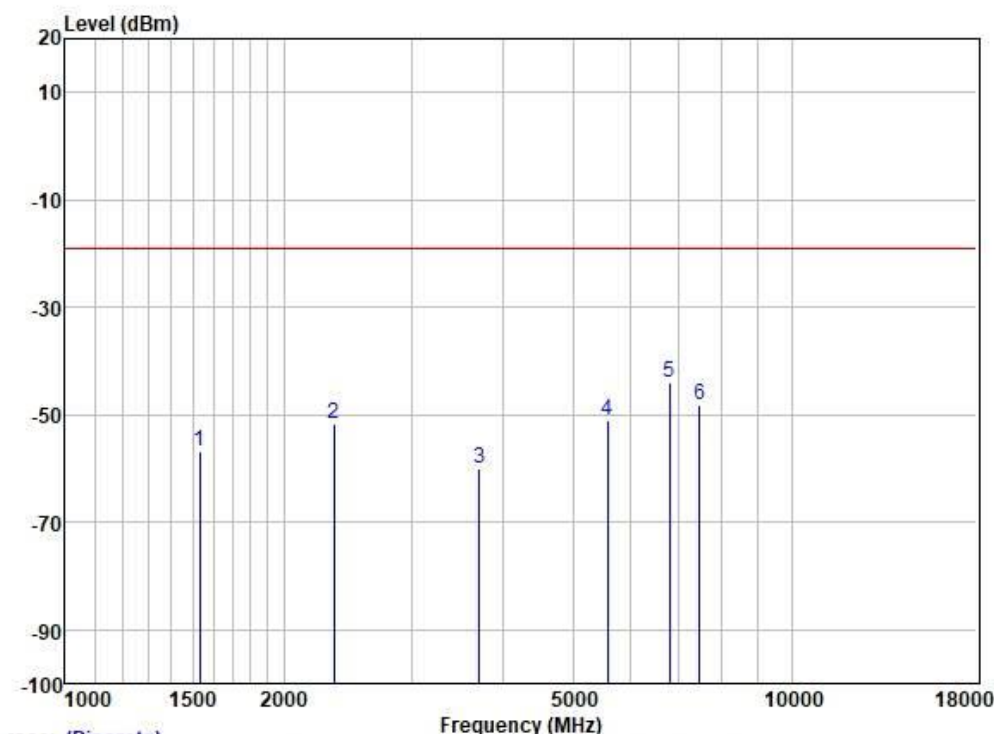


Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
47.659	-83.54	-19	-64.55	Horizontal	PASS
90.22	-79.43	-19	-60.44	Horizontal	PASS
129.468	-88.33	-19	-69.34	Horizontal	PASS
187.753	-85.73	-19	-66.74	Horizontal	PASS
340.782	-79.94	-19	-60.95	Horizontal	PASS
549.02	-76.99	-19	-58	Horizontal	PASS



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Upper 700MHz Band_Horizontal_above 1GHz



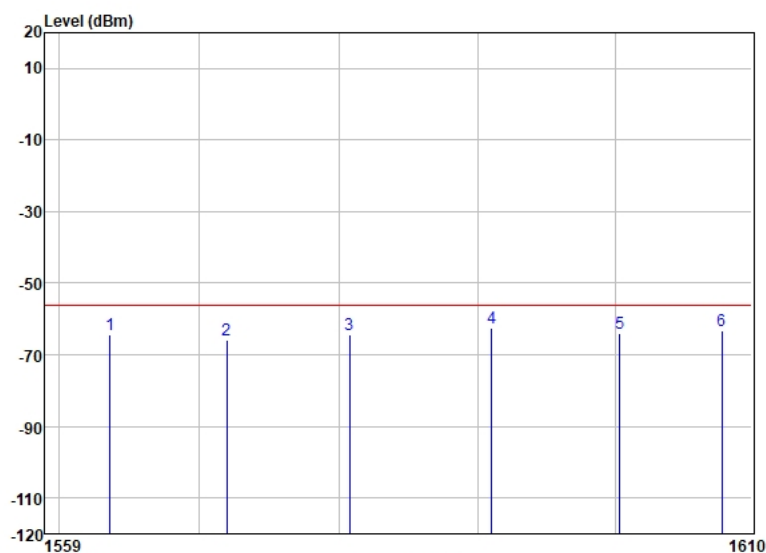
Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
1533.841	-56.7	-19	-37.71	Horizontal	PASS
2345.878	-51.76	-19	-32.77	Horizontal	PASS
3714.443	-59.85	-19	-40.86	Horizontal	PASS
5583.251	-50.94	-19	-31.95	Horizontal	PASS
6795.879	-44.15	-19	-25.16	Horizontal	PASS
7476.006	-48.23	-19	-29.24	Horizontal	PASS



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Upper 700MHz Band_Horizontal_1559-1610MHz



	Freq	Read	Correction		Limit	Over	
	MHz	Level	Factor	Level	Line	Limit	Pol/Phase
		dBm	dB	dBm	dBm	dB	
1	1563.624	-69.58	5.07	-64.51	-56.00	-8.51	HORIZONTAL
2	1571.951	-70.81	5.10	-65.71	-56.00	-9.71	HORIZONTAL
3	1580.780	-69.59	5.14	-64.45	-56.00	-8.45	HORIZONTAL
4	1591.041	-67.71	5.20	-62.51	-56.00	-6.51	HORIZONTAL
5	1600.338	-69.32	5.24	-64.08	-56.00	-8.08	HORIZONTAL
6	1607.773	-68.59	5.28	-63.31	-56.00	-7.31	HORIZONTAL

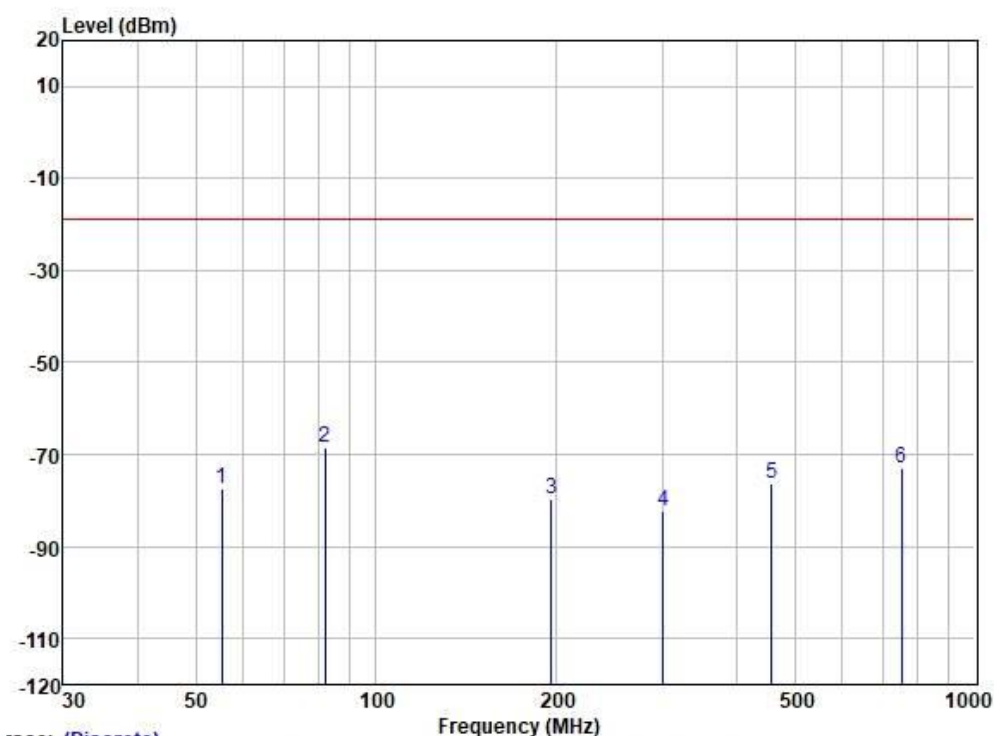


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Upper 700MHz Band_Vertical_30MHz~1GHz



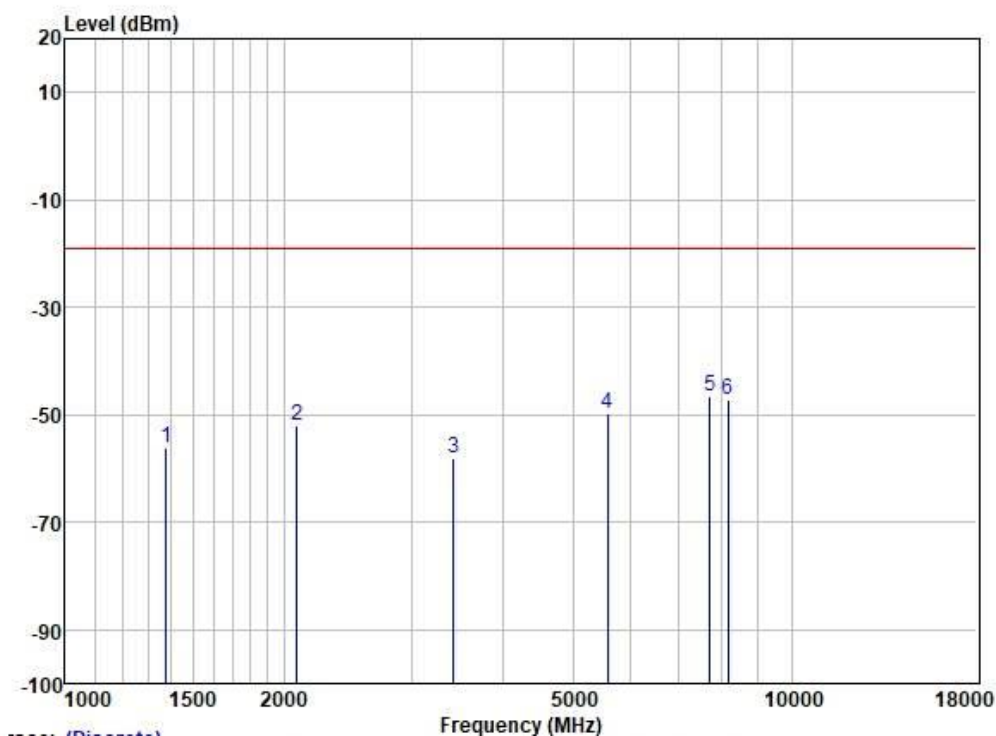
Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
55.221	-77.45	-19	-58.46	Vertical	PASS
82.071	-68.55	-19	-49.56	Vertical	PASS
195.822	-79.67	-19	-60.68	Vertical	PASS
301.422	-82.46	-19	-63.47	Vertical	PASS
457.507	-76.49	-19	-57.5	Vertical	PASS
752.743	-72.94	-19	-53.95	Vertical	PASS



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Upper 700MHz Band_Vertical_above 1GHz

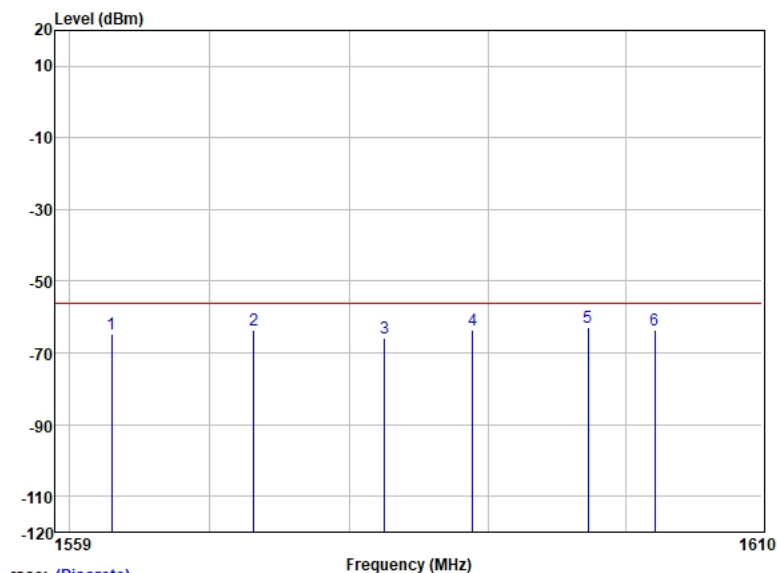


Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
1378.273	-56.06	-19	-37.07	Vertical	PASS
2083.719	-52.03	-19	-33.04	Vertical	PASS
3425.675	-57.95	-19	-38.96	Vertical	PASS
5583.251	-49.77	-19	-30.78	Vertical	PASS
7717.518	-46.41	-19	-27.42	Vertical	PASS
8176.795	-47.21	-19	-28.22	Vertical	PASS



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Upper 700MHz Band_Vertical_1559-1610Mhz



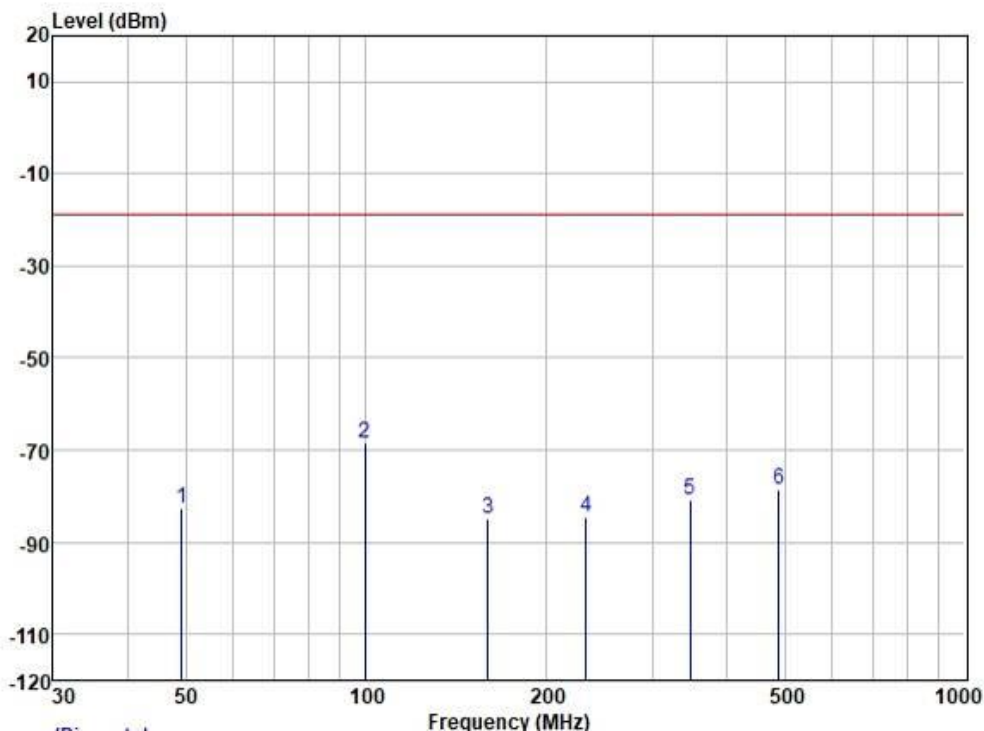
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1563.020	-70.27	5.51	-64.76	-56.00	-8.76	VERTICAL
2	1573.166	-68.79	5.31	-63.48	-56.00	-7.48	VERTICAL
3	1582.562	-71.09	5.13	-65.96	-56.00	-9.96	VERTICAL
4	1588.891	-68.83	5.04	-63.79	-56.00	-7.79	VERTICAL
5	1597.250	-67.63	4.89	-62.74	-56.00	-6.74	VERTICAL
6	1602.142	-68.29	4.82	-63.47	-56.00	-7.47	VERTICAL



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Cellular Band_Horizontal_30MHz~1GHz



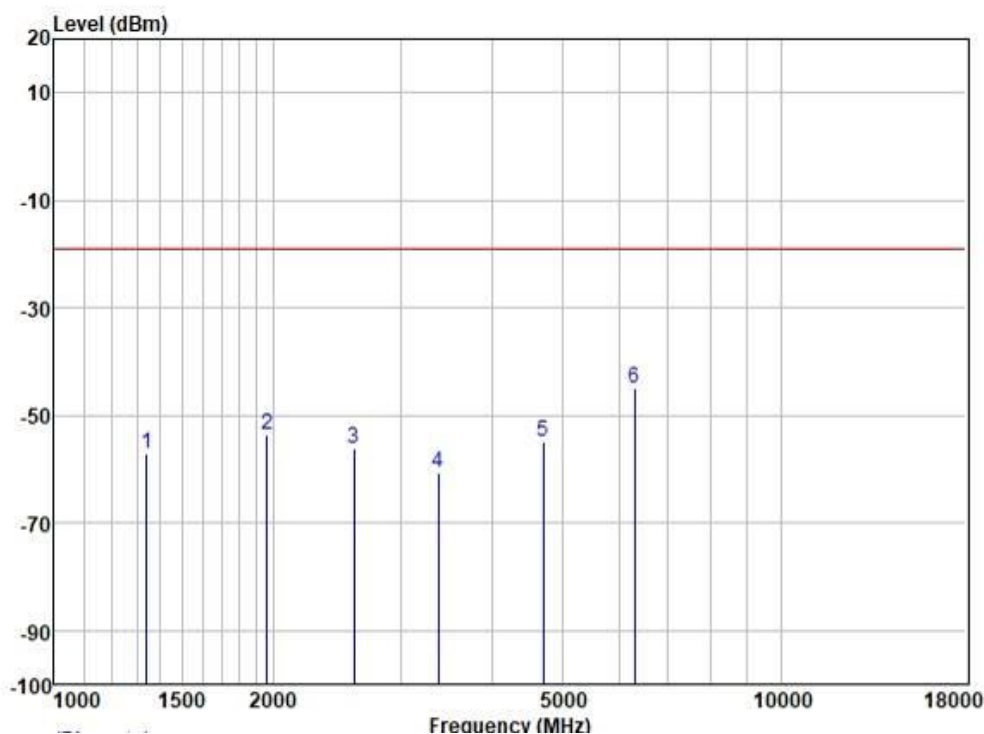
Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
49.187	-82.51	-19	-63.52	Horizontal	PASS
99.528	-68.41	-19	-49.42	Horizontal	PASS
159.784	-84.81	-19	-65.82	Horizontal	PASS
232.532	-84.49	-19	-65.5	Horizontal	PASS
348.027	-80.78	-19	-61.79	Horizontal	PASS
489.027	-78.38	-19	-59.39	Horizontal	PASS



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Cellular Band_Horizontal_above 1GHz



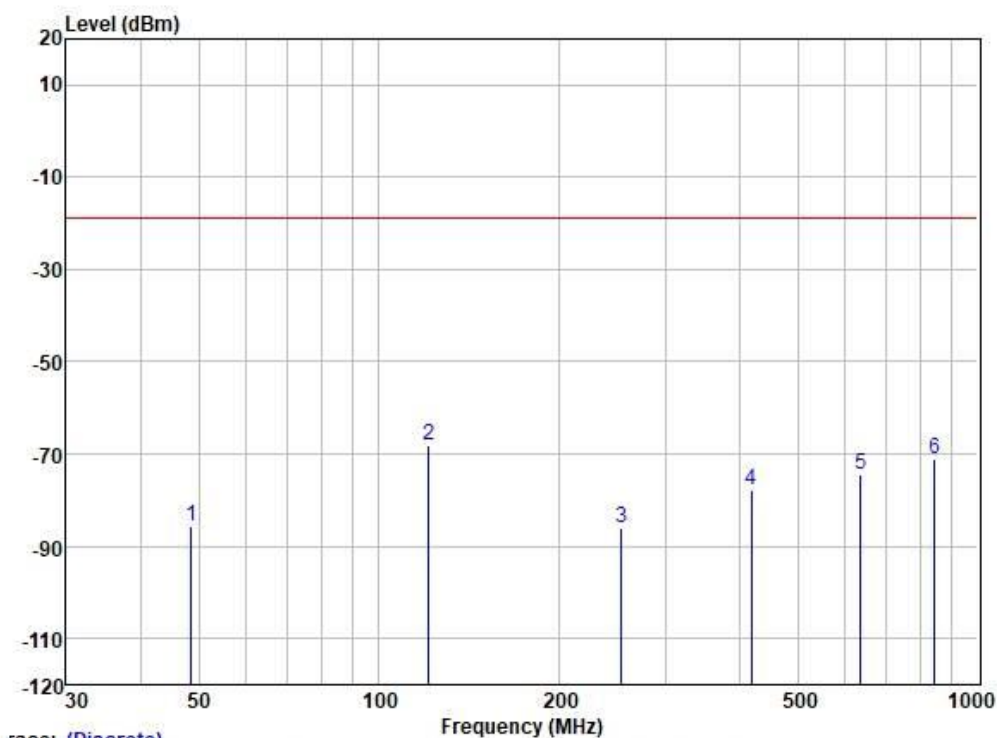
Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
1339.006	-57.05	-19	-38.06	Horizontal	PASS
1961.004	-53.74	-19	-34.75	Horizontal	PASS
2588.122	-56.17	-19	-37.18	Horizontal	PASS
3376.523	-60.79	-19	-41.8	Horizontal	PASS
4707.887	-54.99	-19	-36	Horizontal	PASS
6285.695	-44.97	-19	-25.98	Horizontal	PASS



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Cellular Band_Vertical_30MHz~1GHz



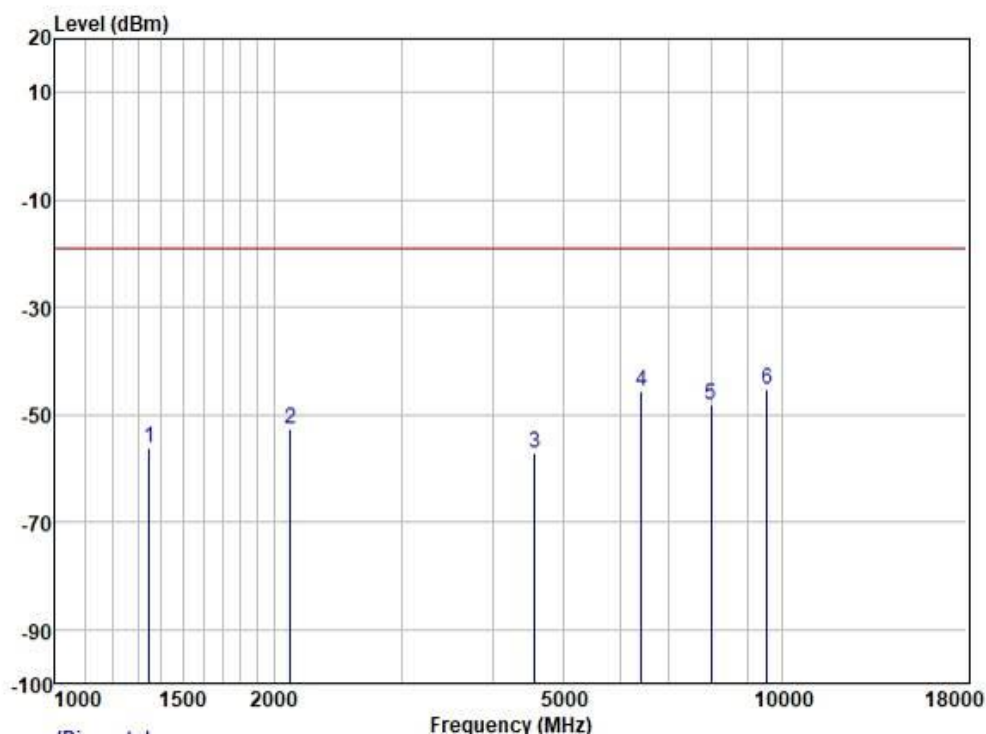
Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
48.502	-85.47	-19	-66.48	Vertical	PASS
121.123	-68.27	-19	-49.28	Vertical	PASS
253.837	-85.86	-19	-66.87	Vertical	PASS
417.641	-77.68	-19	-58.69	Vertical	PASS
636.134	-74.31	-19	-55.32	Vertical	PASS
845.088	-70.99	-19	-52	Vertical	PASS



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Cellular Band_Vertical_above 1GHz



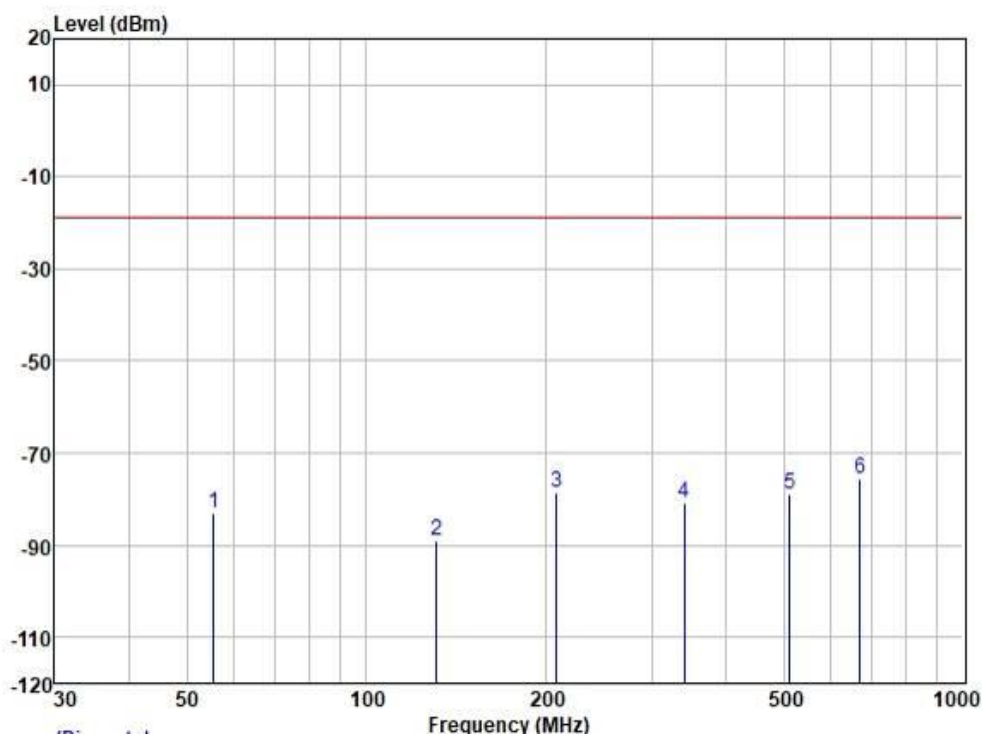
Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
1346.769	-56.32	-19	-37.33	Vertical	PASS
2107.95	-52.54	-19	-33.55	Vertical	PASS
4573.76	-57.27	-19	-38.28	Vertical	PASS
6414.167	-45.49	-19	-26.5	Vertical	PASS
7989.893	-48.16	-19	-29.17	Vertical	PASS
9558.018	-45.42	-19	-26.43	Vertical	PASS



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AWS-1 Band_Horizontal_30MHz~1GHz



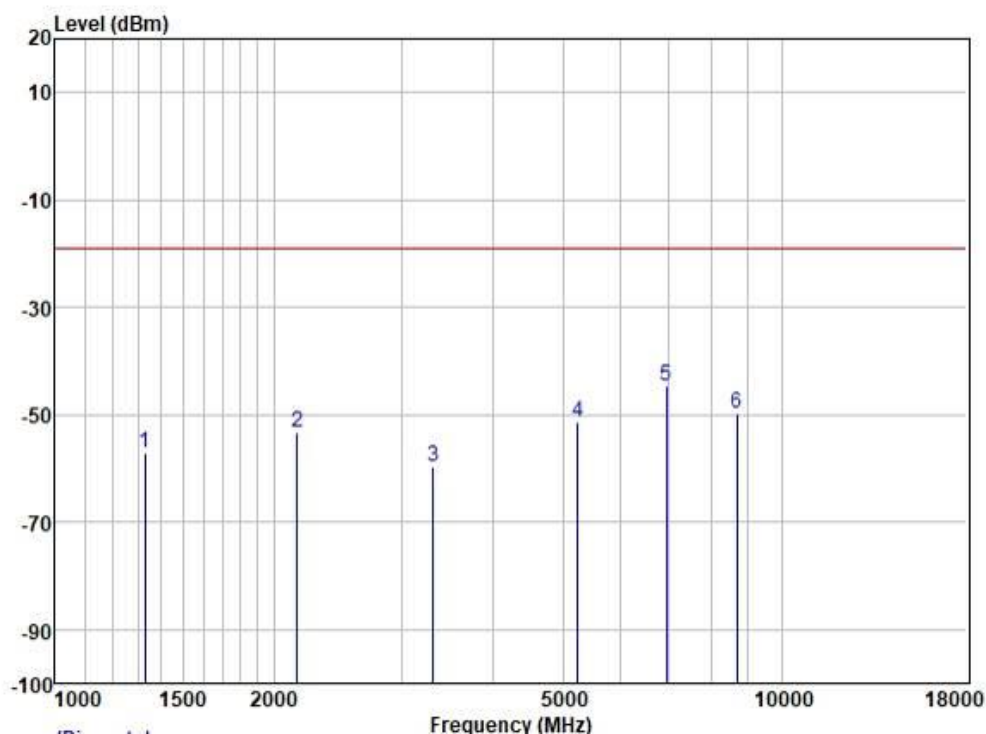
Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
55.415	-83.05	-19	-64.06	Horizontal	PASS
130.837	-88.95	-19	-69.96	Horizontal	PASS
207.85	-78.43	-19	-59.44	Horizontal	PASS
340.782	-80.75	-19	-61.76	Horizontal	PASS
511.835	-78.85	-19	-59.86	Horizontal	PASS
670.489	-75.52	-19	-56.53	Horizontal	PASS



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AWS-1 Band_Horizontal_above 1GHz



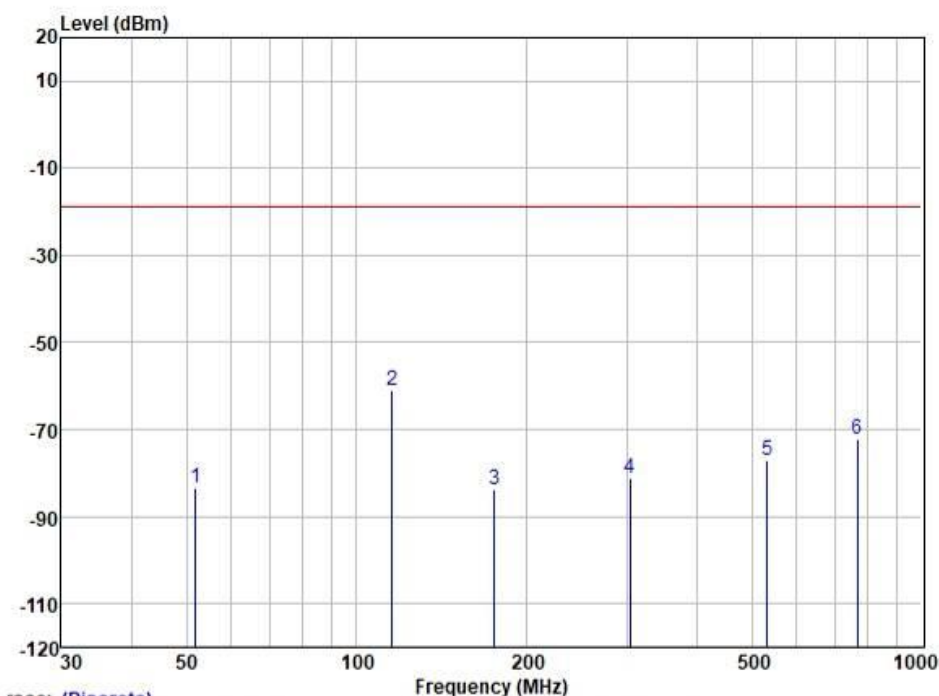
Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
1331.288	-57.09	-19	-38.1	Horizontal	PASS
2157.26	-53.17	-19	-34.18	Horizontal	PASS
3318.471	-59.53	-19	-40.54	Horizontal	PASS
5239.274	-51.29	-19	-32.3	Horizontal	PASS
6934.778	-44.62	-19	-25.63	Horizontal	PASS



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AWS-1 Band_Vertical_30MHz~1GHz



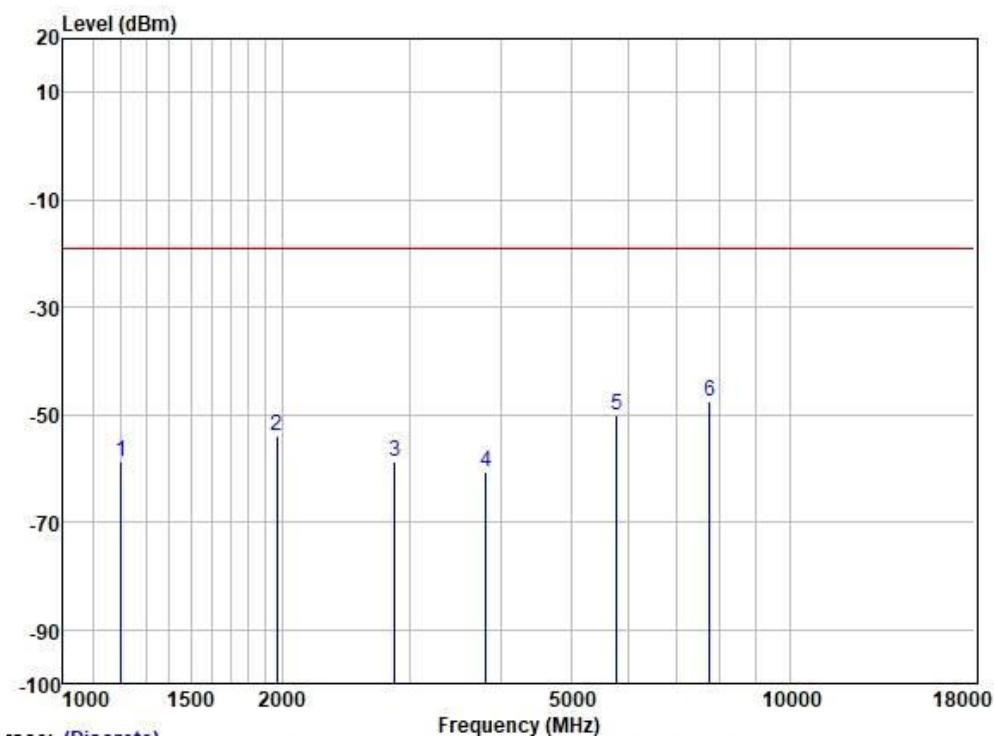
Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
51.843	-83.55	-19	-64.56	Vertical	PASS
115.321	-61.07	-19	-42.08	Vertical	PASS
175.037	-83.82	-19	-64.83	Vertical	PASS
304.61	-81.27	-19	-62.28	Vertical	PASS
531.964	-76.94	-19	-57.95	Vertical	PASS
768.748	-72.08	-19	-53.09	Vertical	PASS



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AWS-1 Band_Vertical_above 1GHz



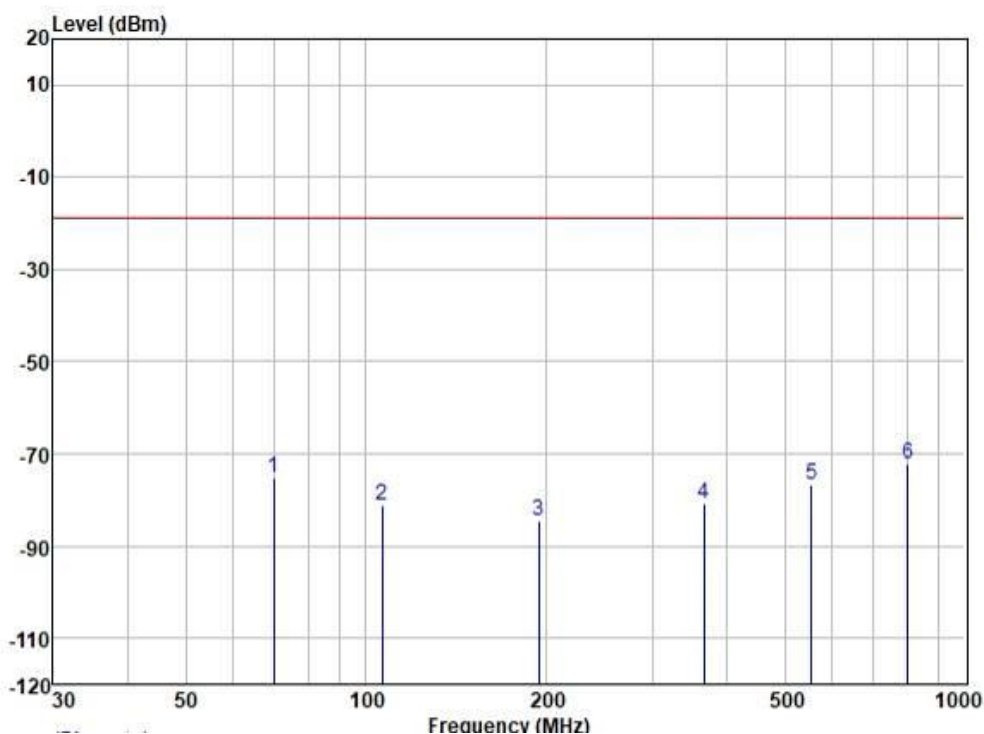
Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
1203.199	-58.85	-19	-39.86	Vertical	PASS
1966.68	-53.82	-19	-34.83	Vertical	PASS
2863.645	-58.85	-19	-39.86	Vertical	PASS
3823.371	-60.53	-19	-41.54	Vertical	PASS
5780.3	-50.13	-19	-31.14	Vertical	PASS
7762.26	-47.66	-19	-28.67	Vertical	PASS



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Broadband PCS Band_Horizontal_30MHz~1GHz



Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
70.09	-75.09	-19	-56.1	Horizontal	PASS
106.385	-81.15	-19	-62.16	Horizontal	PASS
194.453	-84.43	-19	-65.44	Horizontal	PASS
366.823	-80.81	-19	-61.82	Horizontal	PASS
554.825	-76.81	-19	-57.82	Horizontal	PASS
801.786	-72.12	-19	-53.13	Horizontal	PASS



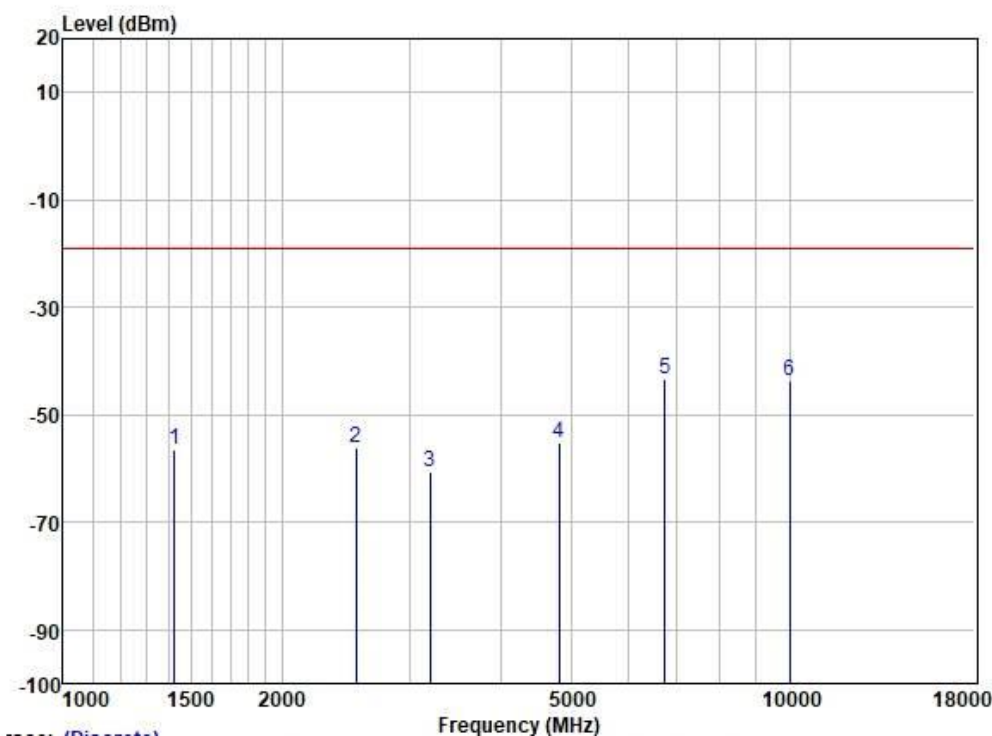
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No.198 Kazhu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgsgroup.com.cn
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Broadband PCS Band_Horizontal_above 1GHz



Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
1422.798	-56.63	-19	-37.64	Horizontal	PASS
2528.963	-56.3	-19	-37.31	Horizontal	PASS
3196.094	-60.69	-19	-41.7	Horizontal	PASS
4818.016	-55.18	-19	-36.19	Horizontal	PASS
6737.207	-43.4	-19	-24.41	Horizontal	PASS
10010.42	-43.72	-19	-24.73	Horizontal	PASS



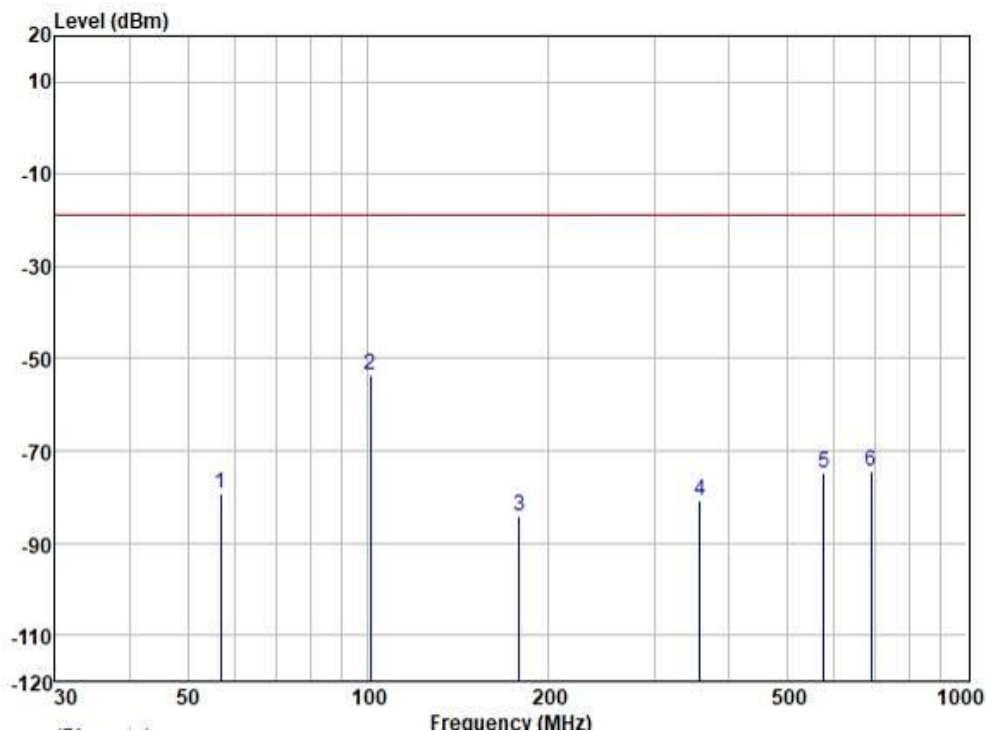
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Broadband PCS Band_Vertical_30MHz~1GHz



Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
56.792	-79.48	-19	-60.49	Vertical	PASS
100.934	-53.46	-19	-34.47	Vertical	PASS
178.758	-84.02	-19	-65.03	Vertical	PASS
357.929	-80.93	-19	-61.94	Vertical	PASS
576.644	-74.78	-19	-55.79	Vertical	PASS
691.987	-74.45	-19	-55.46	Vertical	PASS



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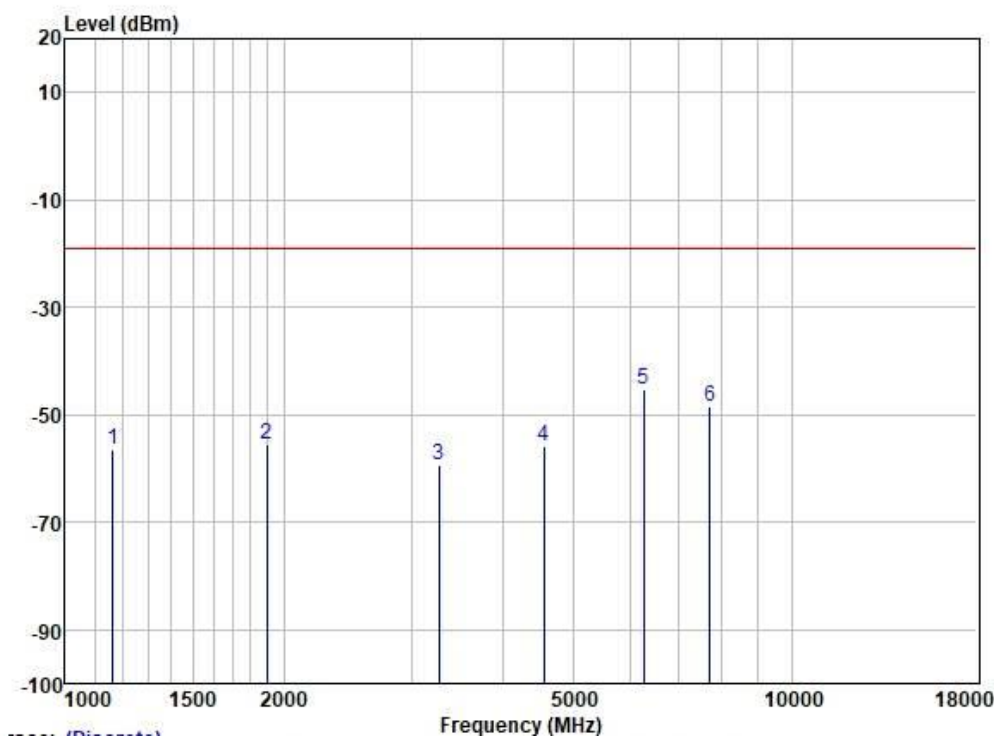
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Page: 114 of 115
FCC ID: 2AYTR-SZZJ2

Broadband PCS Band_Vertical_above 1GHz



Freq. (MHz)	Level (dBm)	Limit (dBm)	Over Limit (dB)	Polarization	Verdict
1162.182	-56.54	-19	-37.55	Vertical	PASS
1894.154	-55.64	-19	-36.65	Vertical	PASS
3270.858	-59.31	-19	-40.32	Vertical	PASS
4560.559	-55.78	-19	-36.79	Vertical	PASS
6249.464	-45.44	-19	-26.45	Vertical	PASS
7717.518	-48.54	-19	-29.55	Vertical	PASS

Remark:

20.21(e)(8)(i)(E) Out of Band Emission Limits:

Booster out of band emissions (OOBE) shall be at least 6 dB below the FCC's mobile emission limits for



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the supported bands of operation.

27.53(c)

For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB.

So, The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

(2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB.

So, The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

(3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

So, The limit = $\{P - [76 + 10 \log (P)]\} - 6\text{dB} = -52\text{dBm}$

27.53(g)

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10 \log (P)$ dB.

So, The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

27.53(h)

the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10} (P)$ dB.

So, The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

22.917

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

So, The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

24.238

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

So, The limit = $\{P - [43 + 10 \log (P)]\} - 6\text{dB} = -19\text{dBm}$

--End of Appendix--



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