Appendix A: Transmitter Output Power

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1 Result Table

1.1 Channel Power, Total

NOTE 1: If applicable, the EIRP [W] = 10 ^ ((Channel Power [dBm] + Antenna Gain [dBi]) / 10 - 3), and the ERP [W] = EIRP [W] / 1.64.

NOTE 2: When the EUT is put into service, the practical maximum antenna gain may exceed the value as below, and if exceed, the combination of the practical output power and the practical antenna gain should NOT exceed the required ERP/EIRP limit.

EUT Conf.	Output Power [dBm]				Verdict
	Port A	Port B	Port C	Port D	
1U_TM1_B	39.54	41.11	39.81	39.08	Pass
1U_TM1_M	40.83	45.50	43.25	40.46	Pass
1U_TM1_T	42.85	40.09	43.85	40.55	Pass
2U_TM1_M	41.69	40.81	42.12	40.37	Pass
1L_5M_TM1.1_B	41.11	42.56	41.30	40.46	Pass
1L_5M_TM1.1_M	42.36	43.05	44.46	41.50	Pass
1L_5M_TM1.1_T	42.85	43.65	42.46	41.78	Pass
1L_10M_TM1.1_B	42.85	43.45	44.36	40.93	Pass
1L_10M_TM1.1_M	43.25	43.15	40.55	42.17	Pass
1L_10M_TM1.1_T	42.36	44.46	42.27	42.07	Pass
1L_15M_TM1.1_B	42.17	43.15	43.95	41.88	Pass
1L_15M_TM1.1_M	42.85	42.56	44.57	42.36	Pass
1L_15M_TM1.1_T	43.25	43.65	41.78	41.50	Pass
1L_20M_TM1.1_B	42.56	44.46	41.40	42.76	Pass
1L_20M_TM1.1_M	42.46	44.16	41.50	41.88	Pass
1L_20M_TM1.1_T	42.56	42.85	42.95	41.98	Pass
2L_5M_TM1.1_M	39.10	36.73	40.97	39.78	Pass
3L_5M_TM1.1_M	40.65	31.30	40.23	40.42	Pass
1U1L_M	41.59	43.40	41.89	41.83	Pass
1U2L_M	41.47	42.34	40.58	40.69	Pass

1.2 Power Spectral Density

NOTE 1: If applicable, the EIRP [W/MHz] = 10 ^ ((Power Spectral Density [dBm/MHz] + Antenna Gain [dBi]) / 10 - 3), and the ERP [W/MHz] = EIRP [W/MHz] / 1.64.

NOTE 2: When the EUT is put into service, the practical maximum antenna gain may exceed the value as below, and if exceed, the combination of the practical output power and the practical antenna gain should NOT exceed the required ERP/EIRP limit.

EUT Conf.	Power Spectral Density [dBm/MHz]	Verdict

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EUT Conf.	Power Spectral Density [dBm/MHz]	Verdict
1U_TM1_B	40.41	Pass
1U_TM1_M	40.91	Pass
1U_TM1_T	40.64	Pass
1L_5M_TM1.1_B	39.87	Pass
1L_5M_TM1.1_M	39.80	Pass
1L_5M_TM1.1_T	40.02	Pass
1L_10M_TM1.1_B	37.08	Pass
1L_10M_TM1.1_M	37.00	Pass
1L_10M_TM1.1_T	37.16	Pass
1L_15M_TM1.1_B	35.32	Pass
1L_15M_TM1.1_M	35.20	Pass
1L_15M_TM1.1_T	35.52	Pass
1L_20M_TM1.1_B	34.30	Pass
1L_20M_TM1.1_M	34.16	Pass
1L_20M_TM1.1_T	34.21	Pass

1.3 Peak-to-Average Ratio

EUT Conf.	Peak-to-Average Ratio@0.1% [dB]	Verdict
1U_TM1_B	6.86	Pass
1U_TM1_M	6.46	Pass
1U_TM1_T	6.87	Pass
1L_5M_TM1.1_B	6.87	Pass
1L_5M_TM1.1_M	6.85	Pass
1L_5M_TM1.1_T	6.86	Pass
1L_10M_TM1.1_B	7.24	Pass
1L_10M_TM1.1_M	7.21	Pass
1L_10M_TM1.1_T	7.23	Pass
1L_15M_TM1.1_B	7.29	Pass
1L_15M_TM1.1_M	7.21	Pass
1L_15M_TM1.1_T	7.29	Pass
1L_20M_TM1.1_B	7.26	Pass
1L_20M_TM1.1_M	7.15	Pass
1L_20M_TM1.1_T	7.27	Pass

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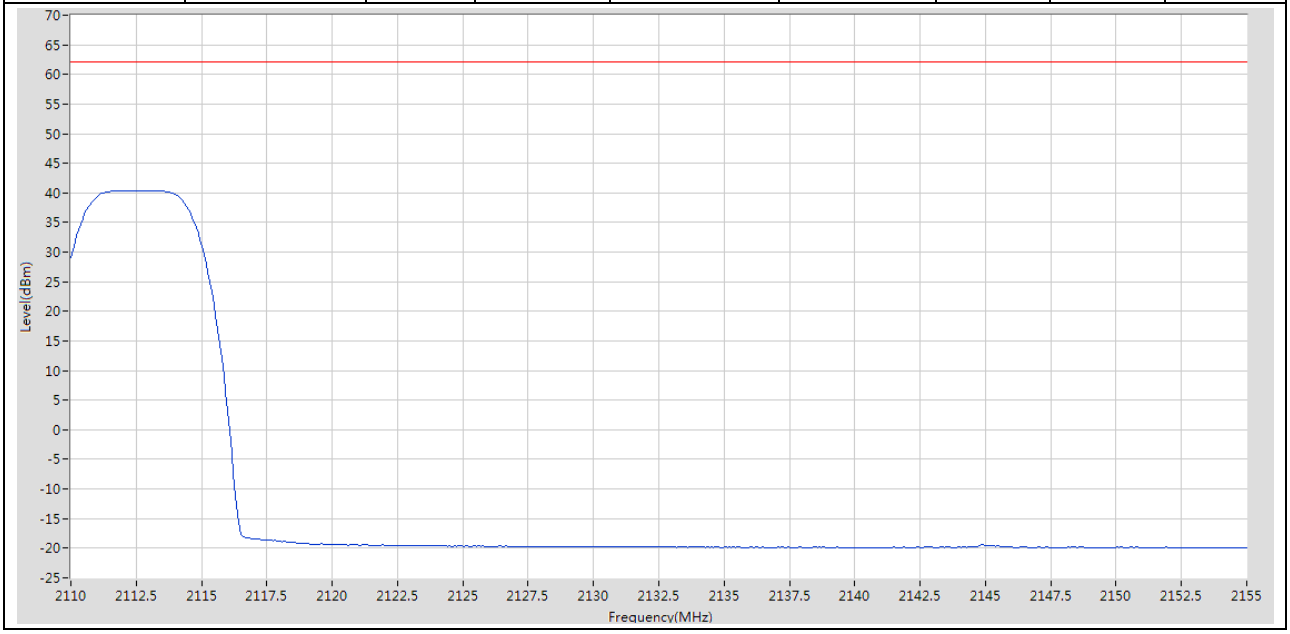
2 Test Plot

NOTE: Only the test plots for the measurements of Spectral Density and Peak-to-Average Ratio are supplied.

2.1 Power Spectral Density

2.1.1 1U_TM1_B

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2110	2155	1	RMS	2112.325 M	40.41	62.15	Pass	601



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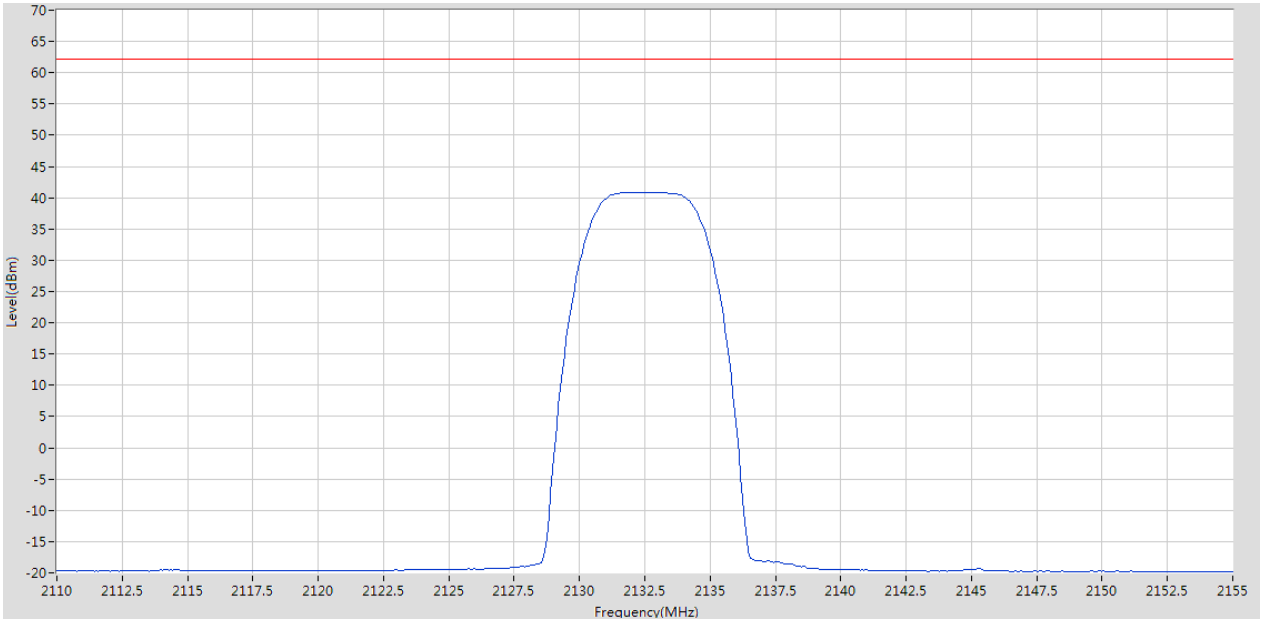
2.1.2 1U_TM1_M

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2110	2155	1	RMS	2132.425 M	40.91	62.15	Pass	601



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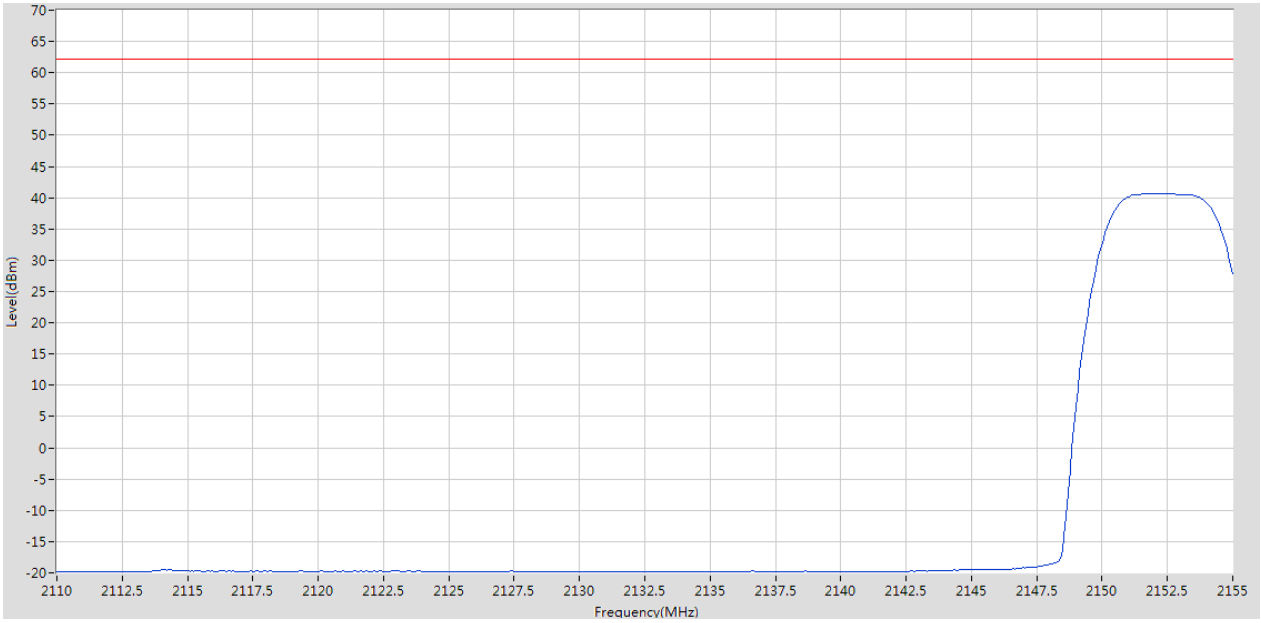
2.1.3 1U_TM1_T

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2110	2155	1	RMS	2152.225 M	40.64	62.15	Pass	601



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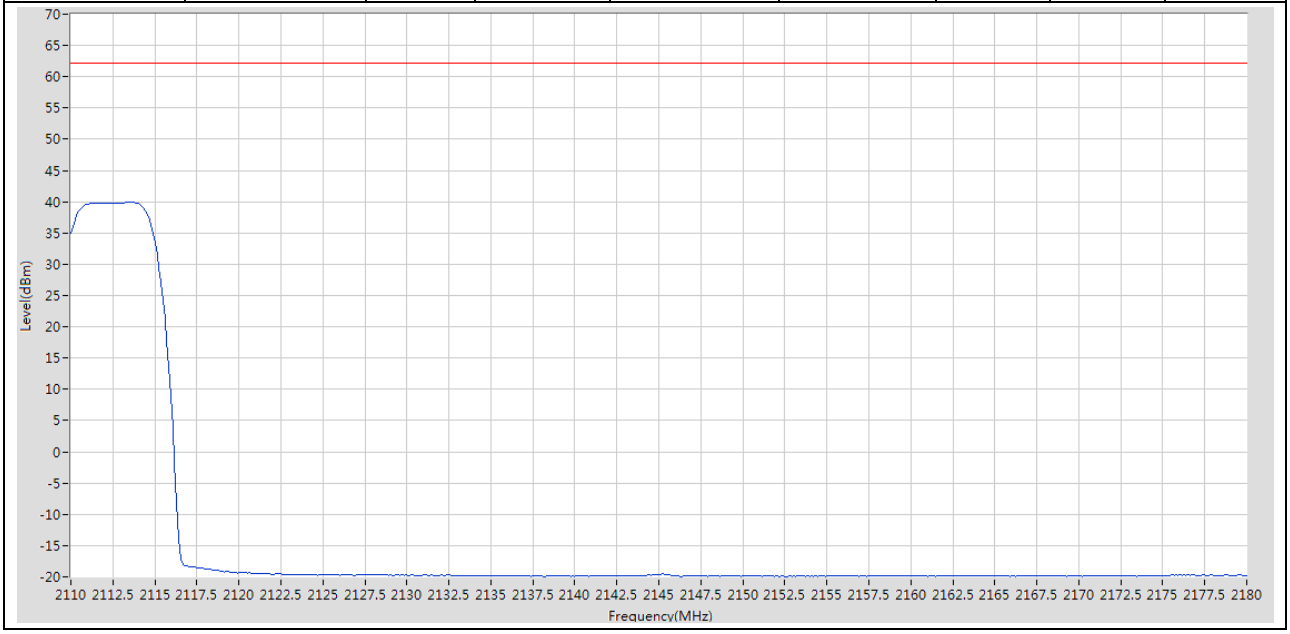
2.1.4 1L_5M_TM1.1_B

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2110	2180	1	RMS	2113.5 M	39.87	62.15	Pass	601



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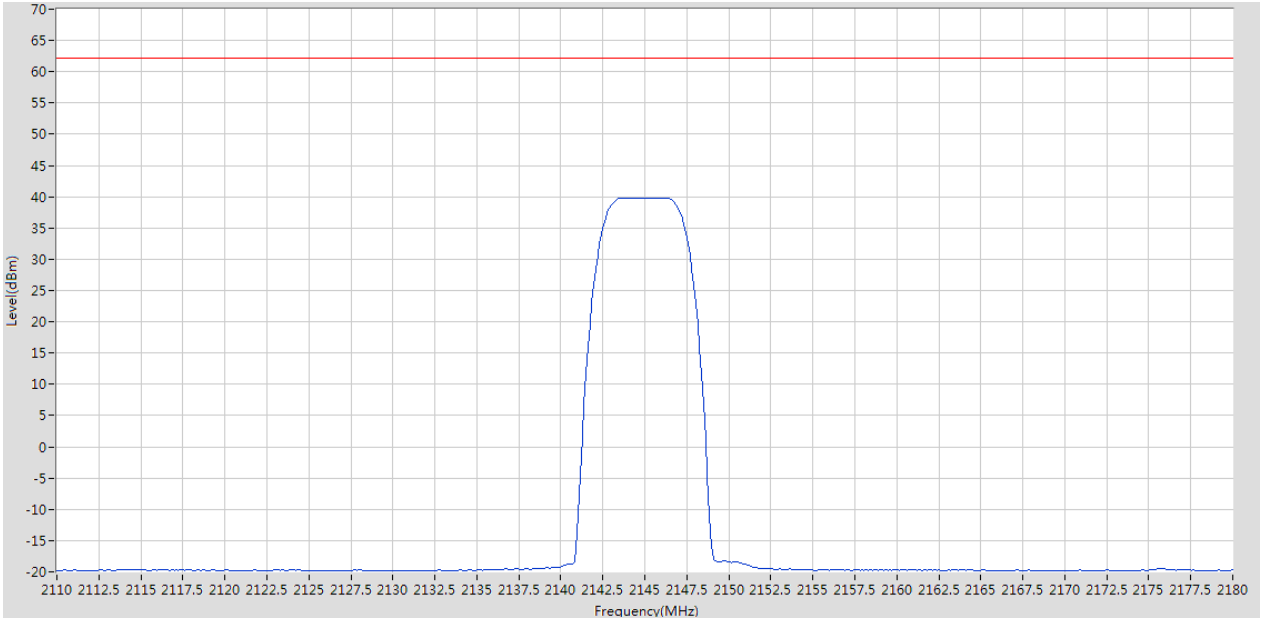
2.1.5 1L_5M_TM1.1_M

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2110	2180	1	RMS	2146.166667 M	39.8	62.15	Pass	601



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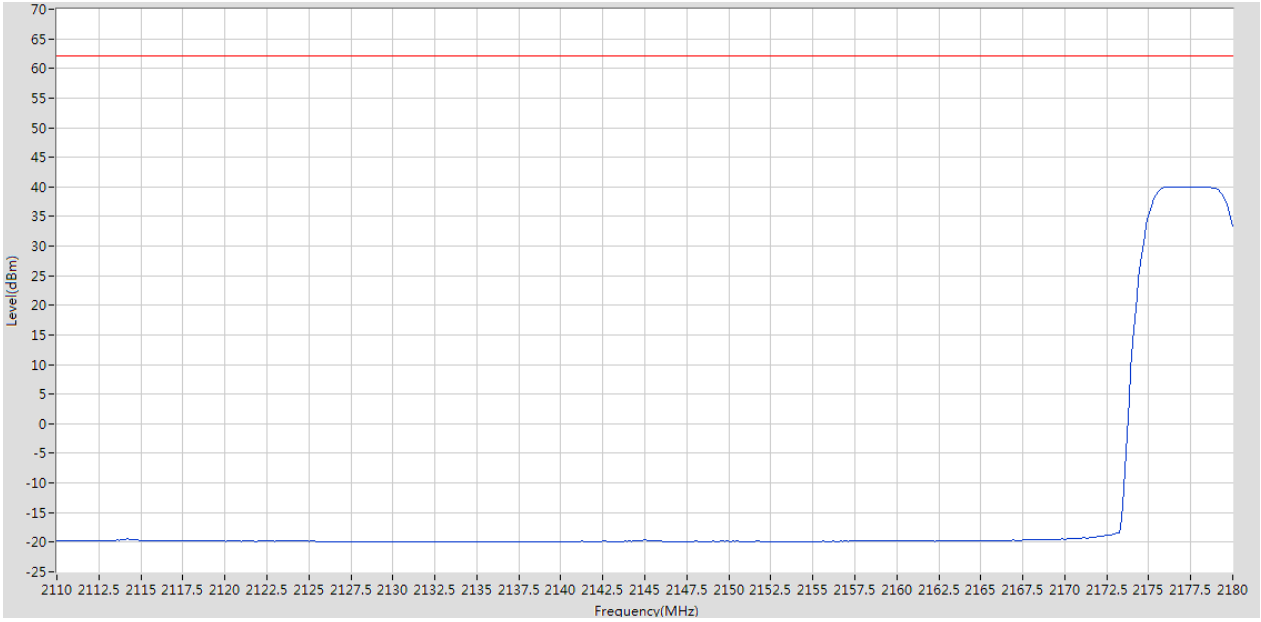
2.1.6 1L_5M_TM1.1_T

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2110	2180	1	RMS	2176.266667 M	40.02	62.15	Pass	601



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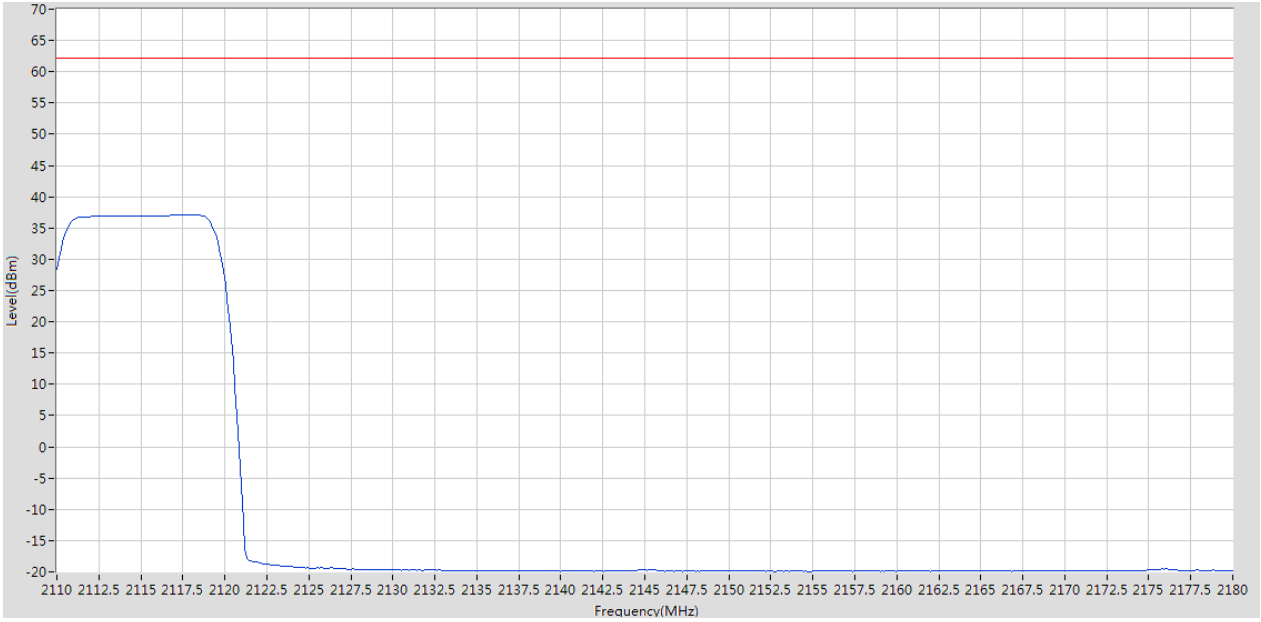
2.1.7 1L_10M_TM1.1_B

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2110	2180	1	RMS	2117.816667 M	37.08	62.15	Pass	601



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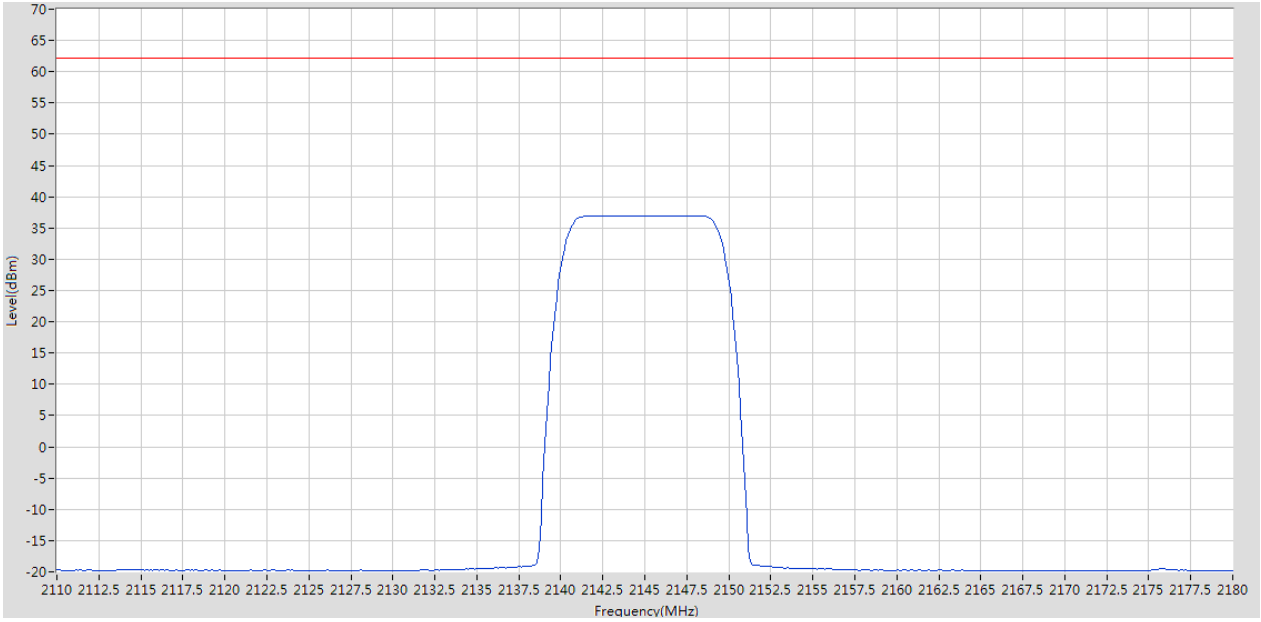
2.1.8 1L_10M_TM1.1_M

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2110	2180	1	RMS	2147.916667 M	37	62.15	Pass	601



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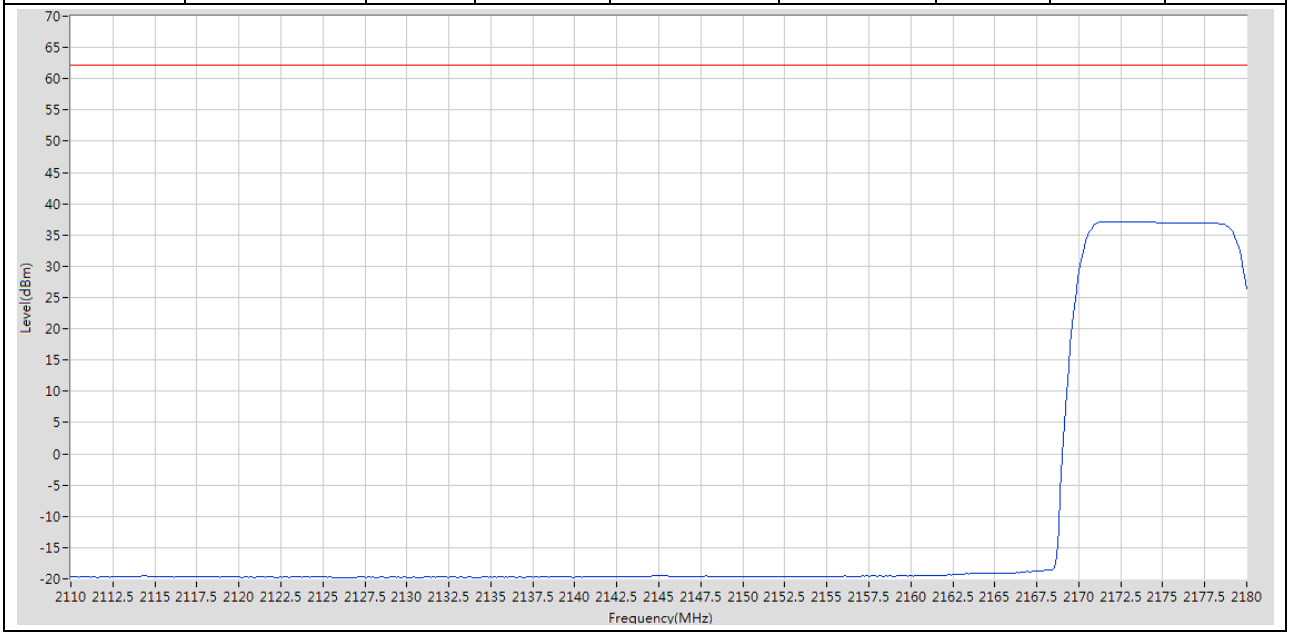
2.1.9 1L_10M_TM1.1_T

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2110	2180	1	RMS	2171.95 M	37.16	62.15	Pass	601



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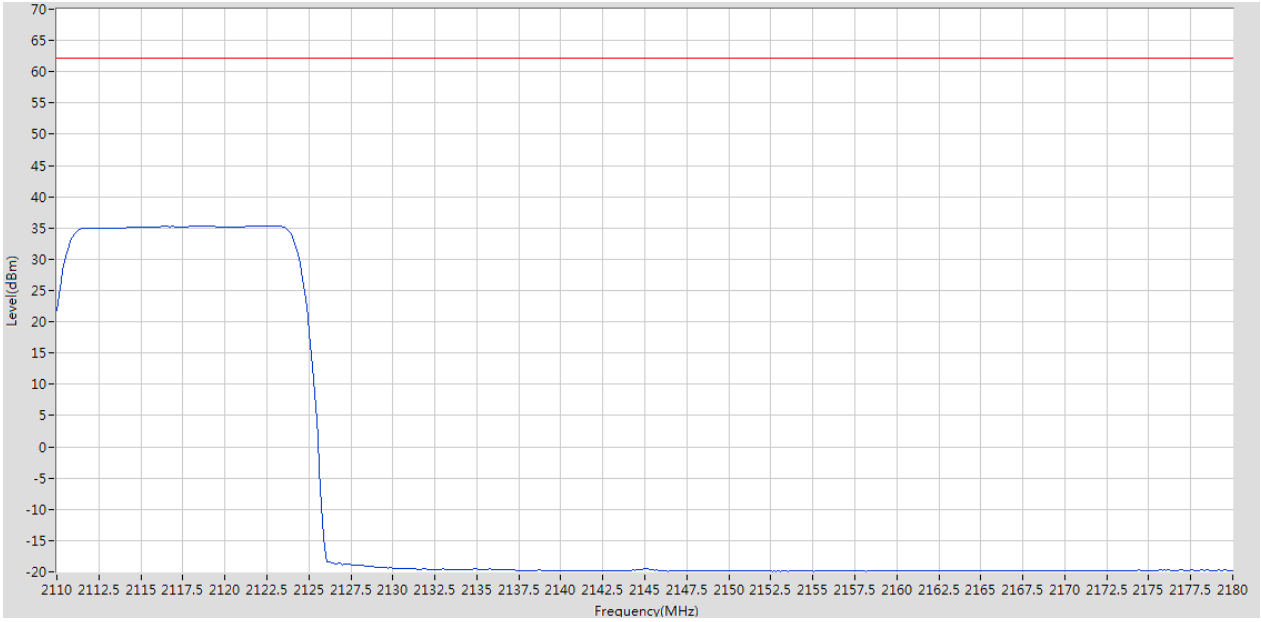
2.1.10 1L_15M_TM1.1_B

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2110	2180	1	RMS	2122.833333 M	35.32	62.15	Pass	601



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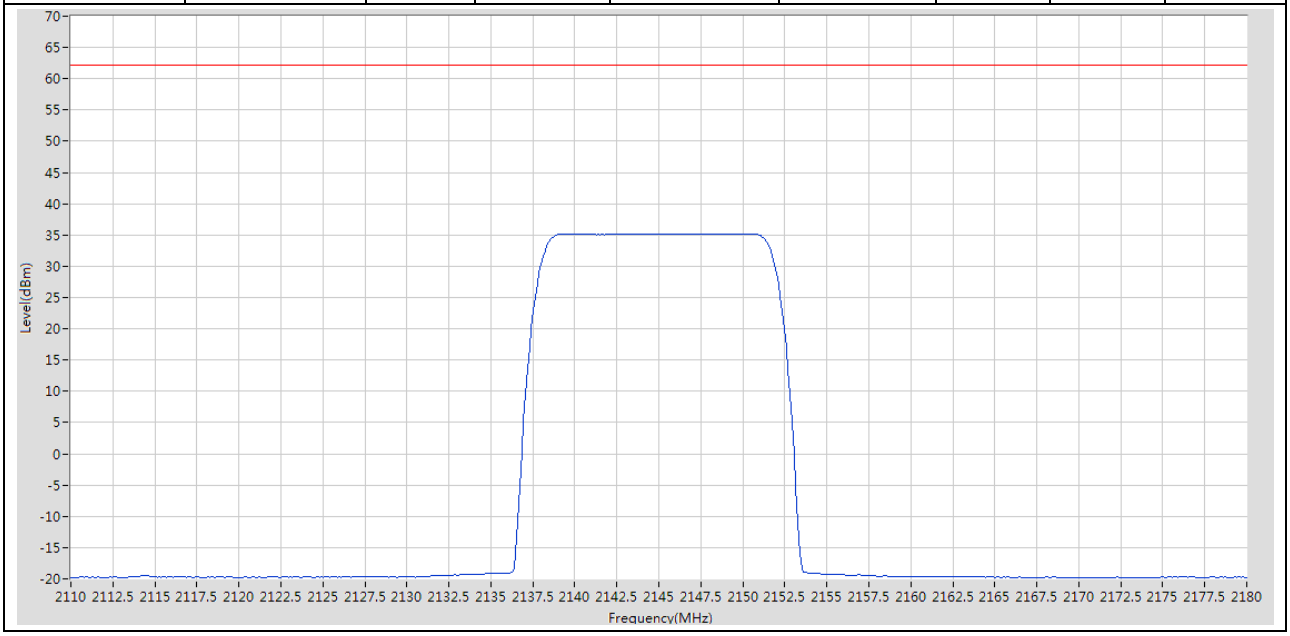
2.1.11 1L_15M_TM1.1_M

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2110	2180	1	RMS	2150.25 M	35.2	62.15	Pass	601



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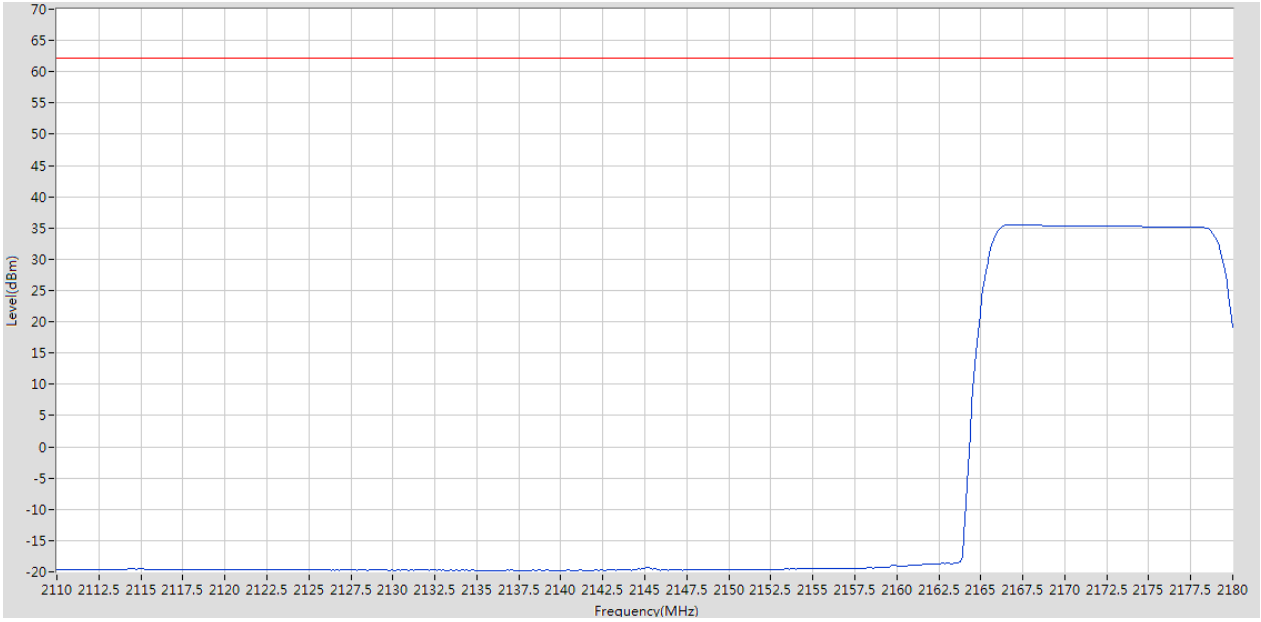
2.1.12 1L_15M_TM1.1_T

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2110	2180	1	RMS	2166.816667 M	35.52	62.15	Pass	601



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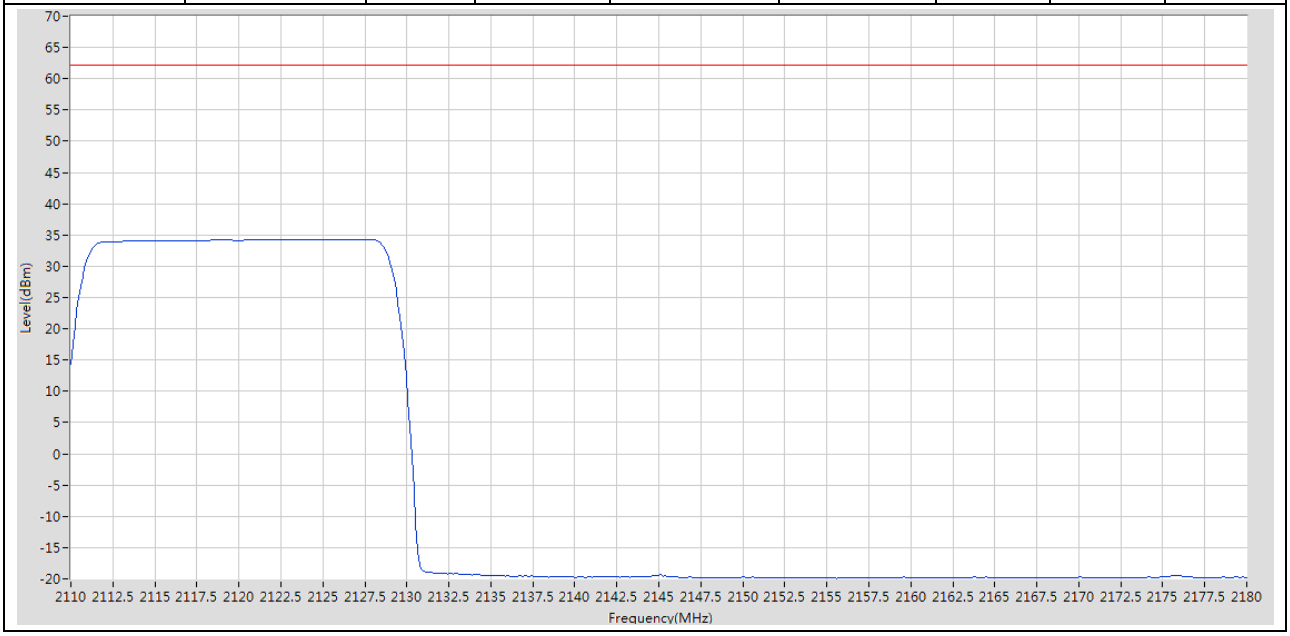
2.1.13 1L_20M_TM1.1_B

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2110	2180	1	RMS	2125.4 M	34.3	62.15	Pass	601



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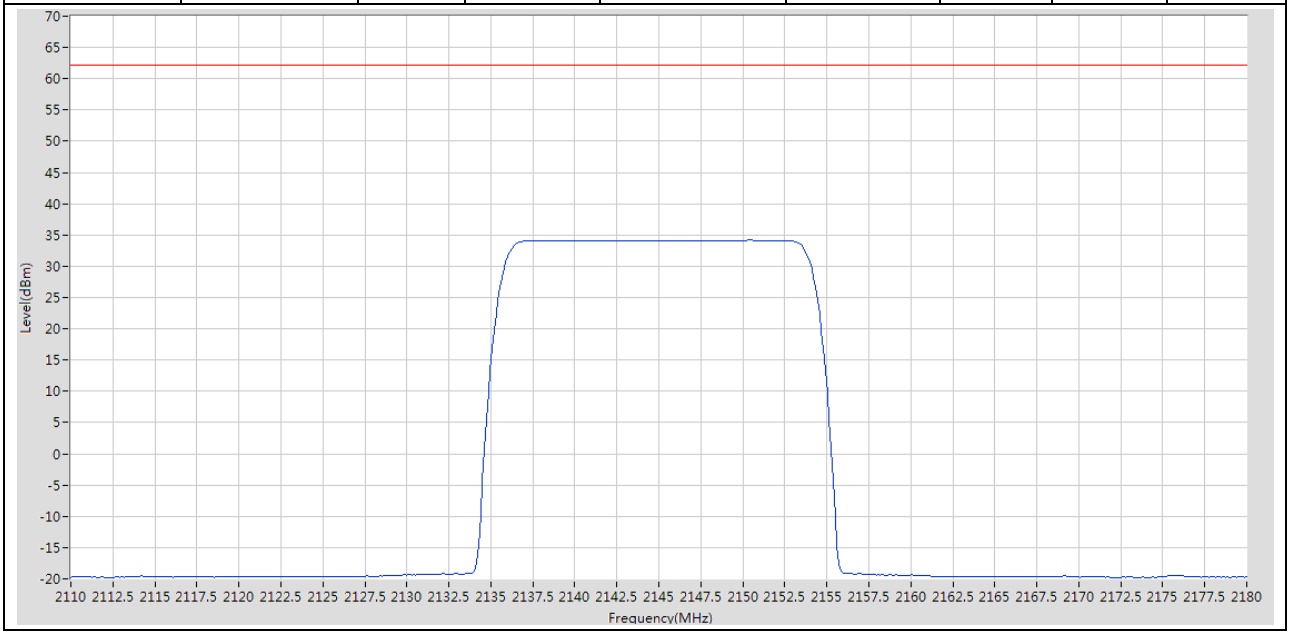
2.1.14 1L_20M_TM1.1_M

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2110	2180	1	RMS	2150.366667 M	34.16	62.15	Pass	601



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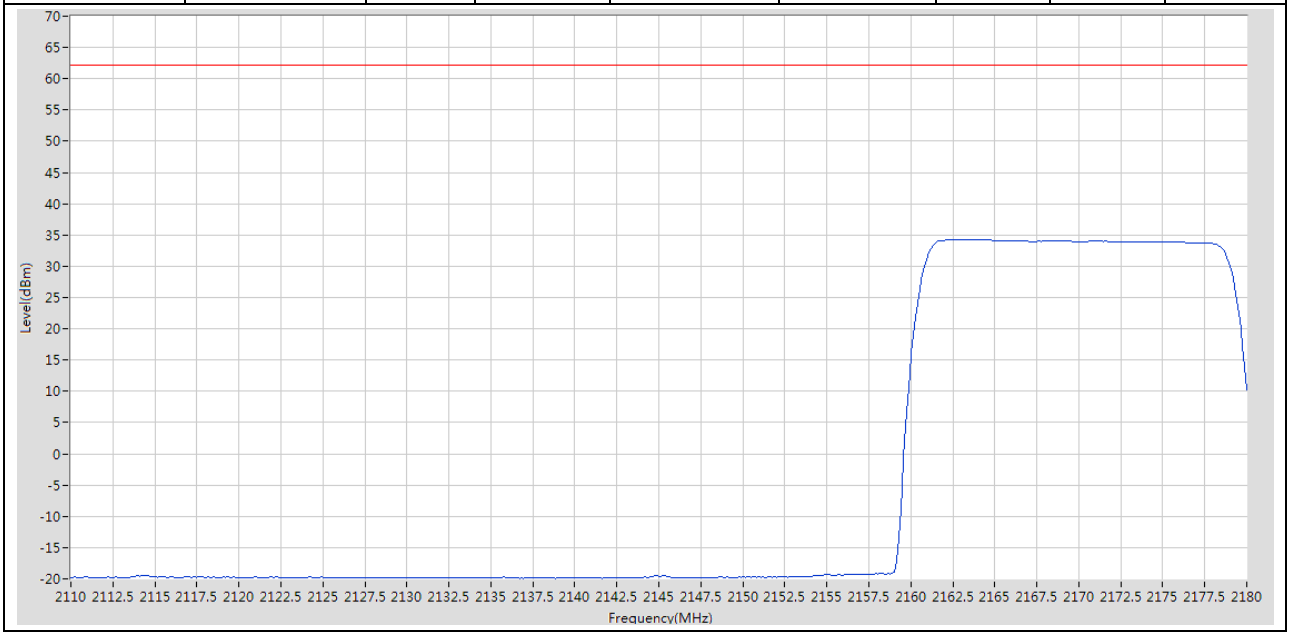
2.1.15 1L_20M_TM1.1_T

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2110	2180	1	RMS	2163.9 M	34.21	62.15	Pass	601



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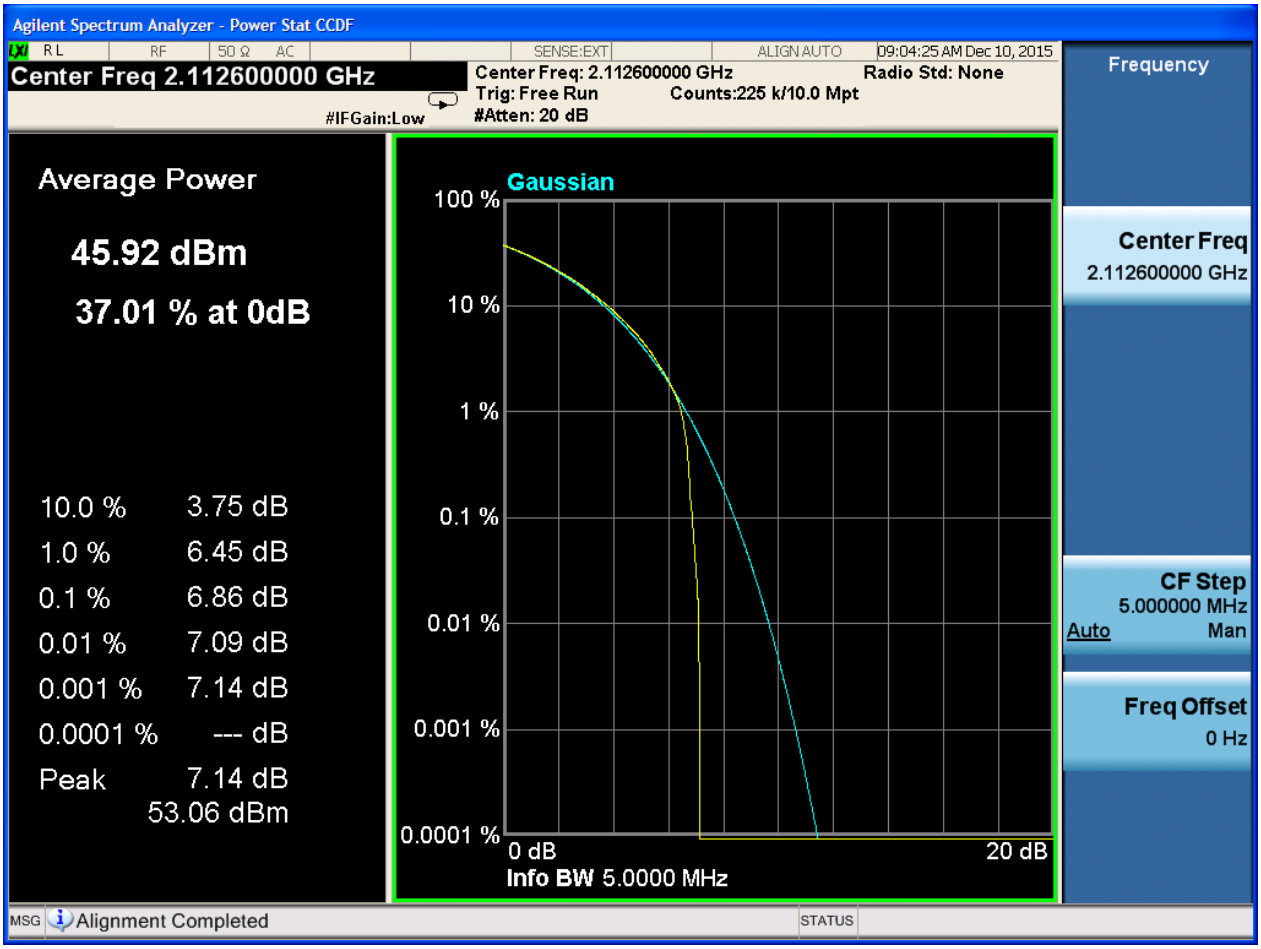
2.2 Peak-to-Average Ratio

2.2.1 1U_TM1_B



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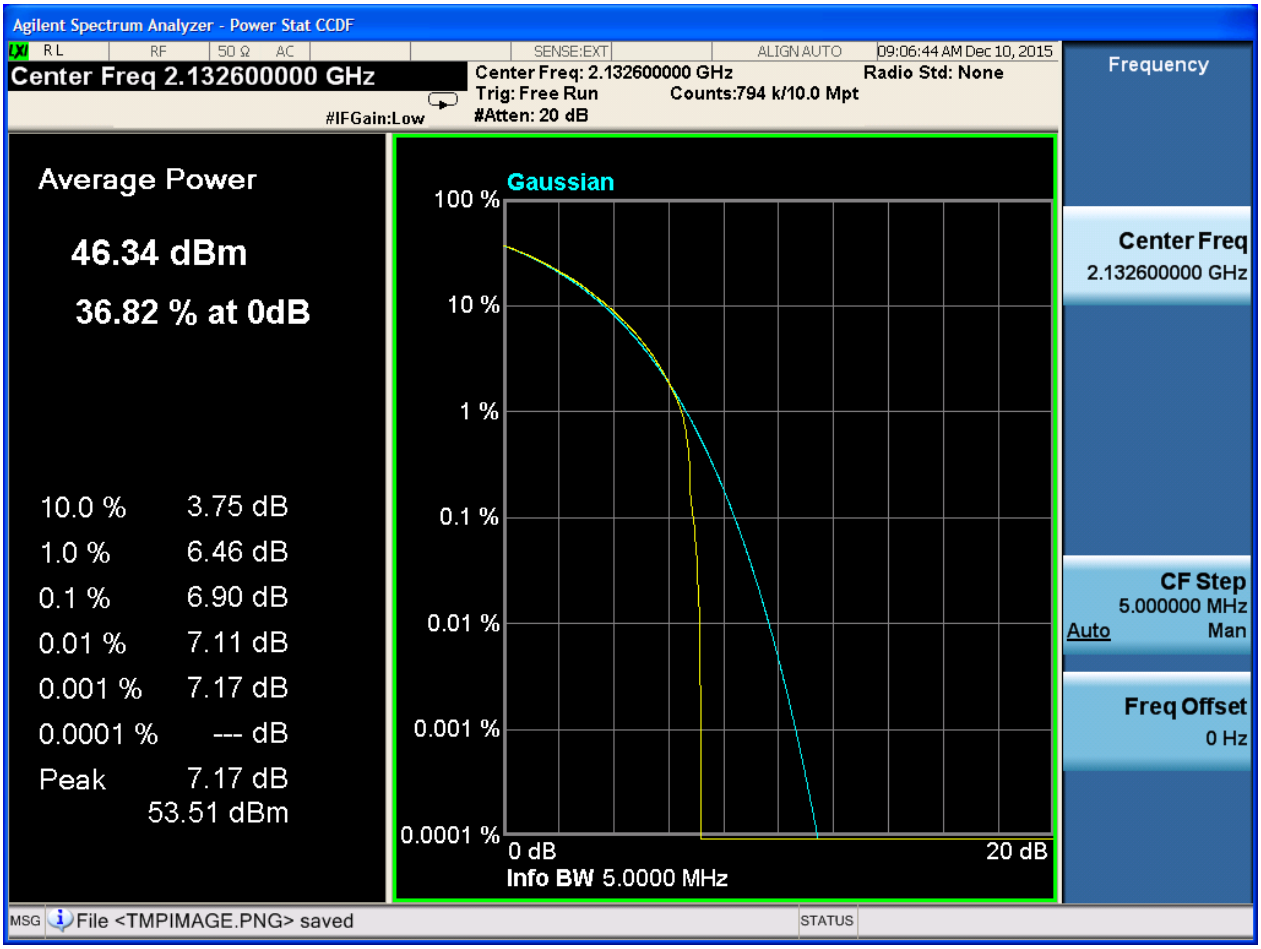
2.2.2 1U_TM1_M



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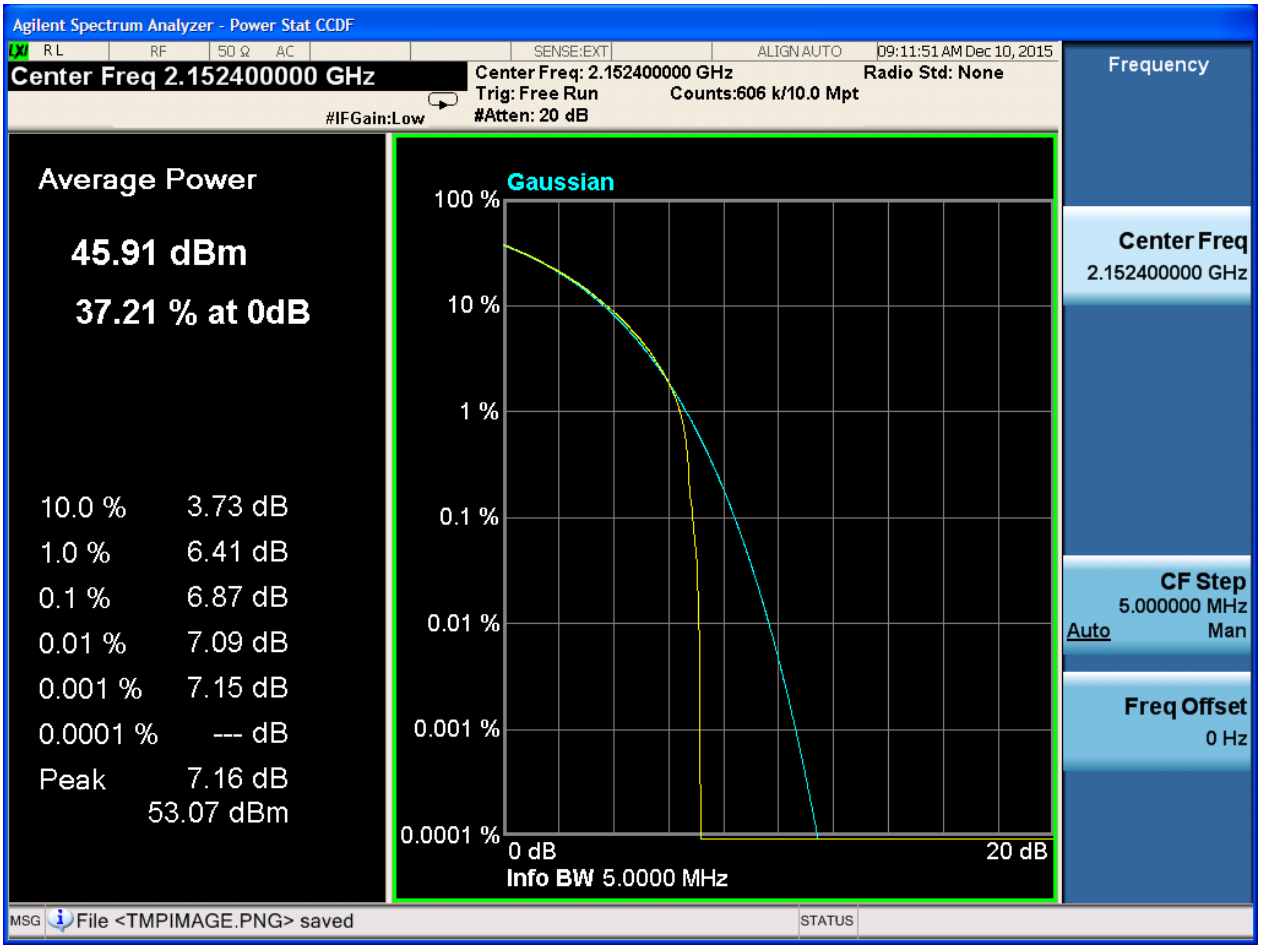
2.2.3 1U_TM1_T



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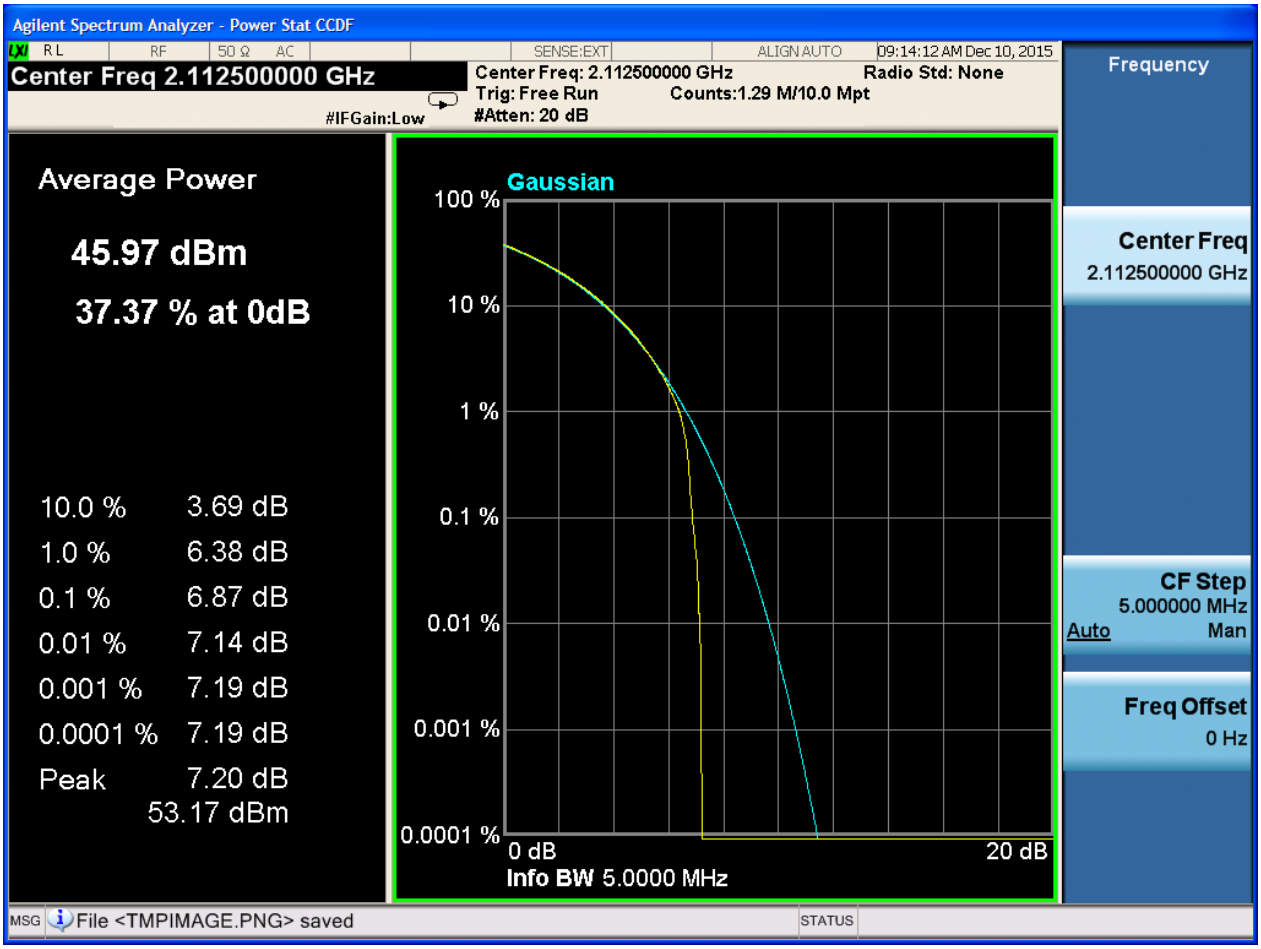
2.2.4 1L_5M_TM1.1_B



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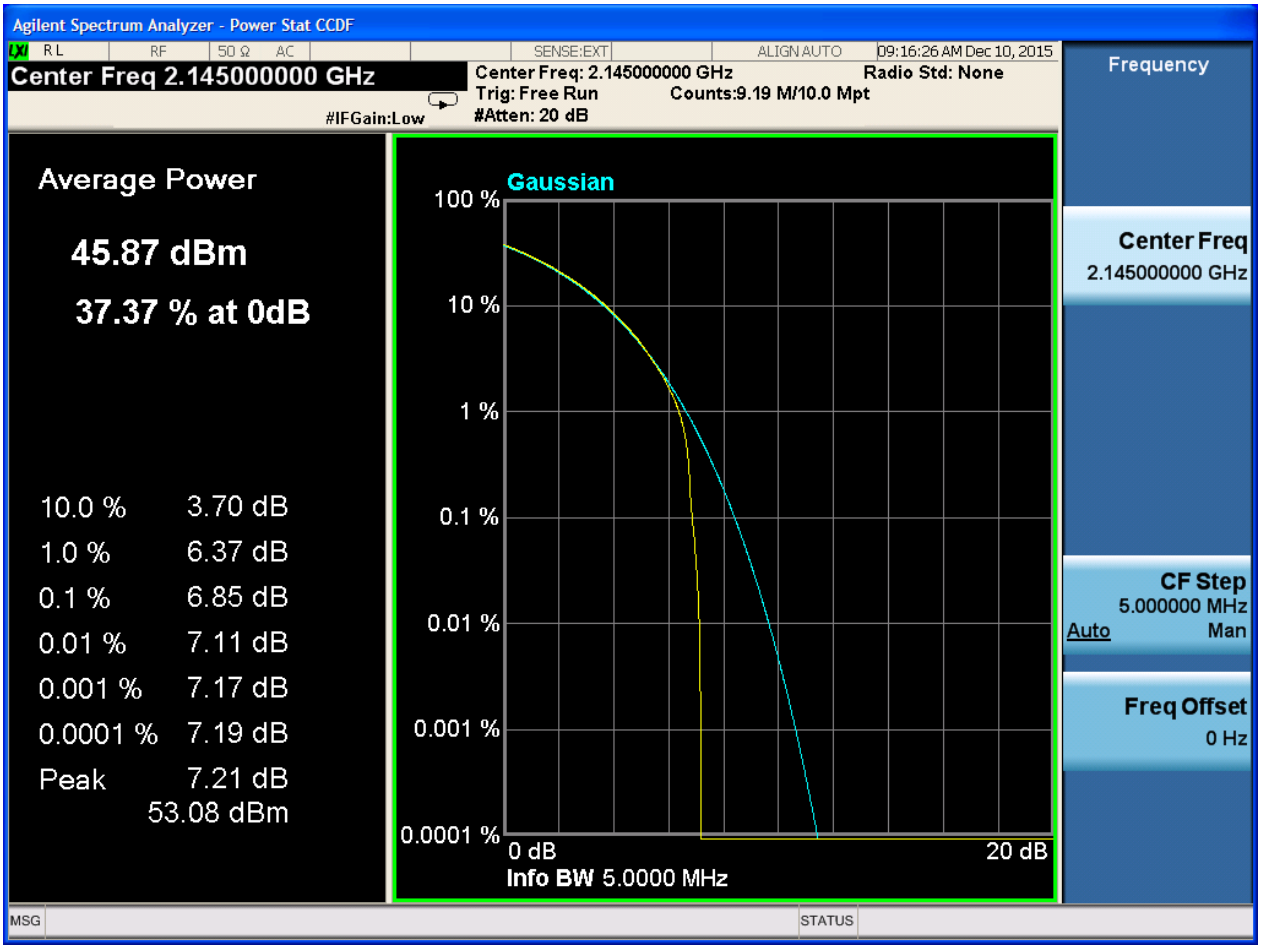
2.2.5 1L_5M_TM1.1_M



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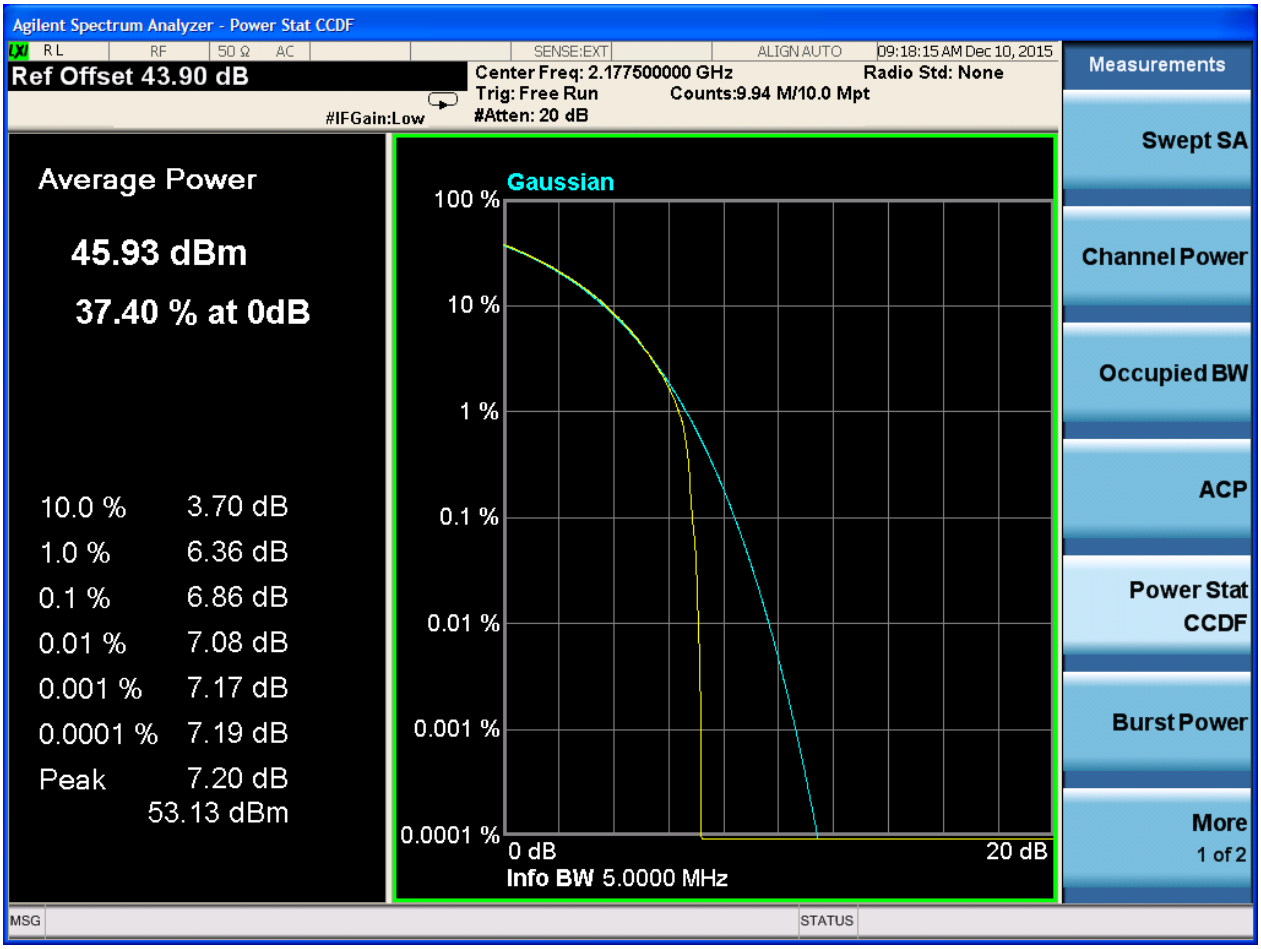
2.2.6 1L_5M_TM1.1_T



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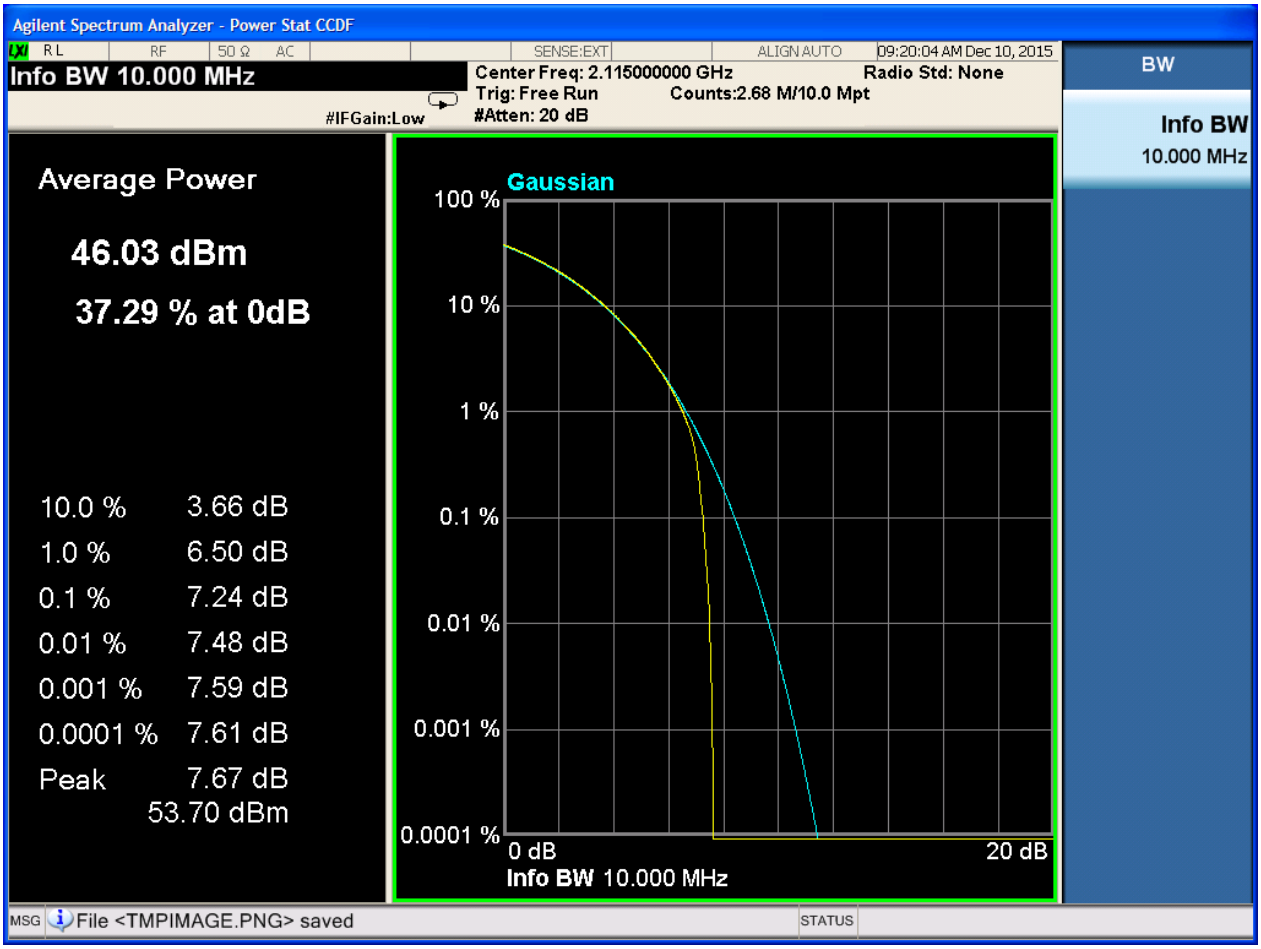
2.2.7 1L_10M_TM1.1_B



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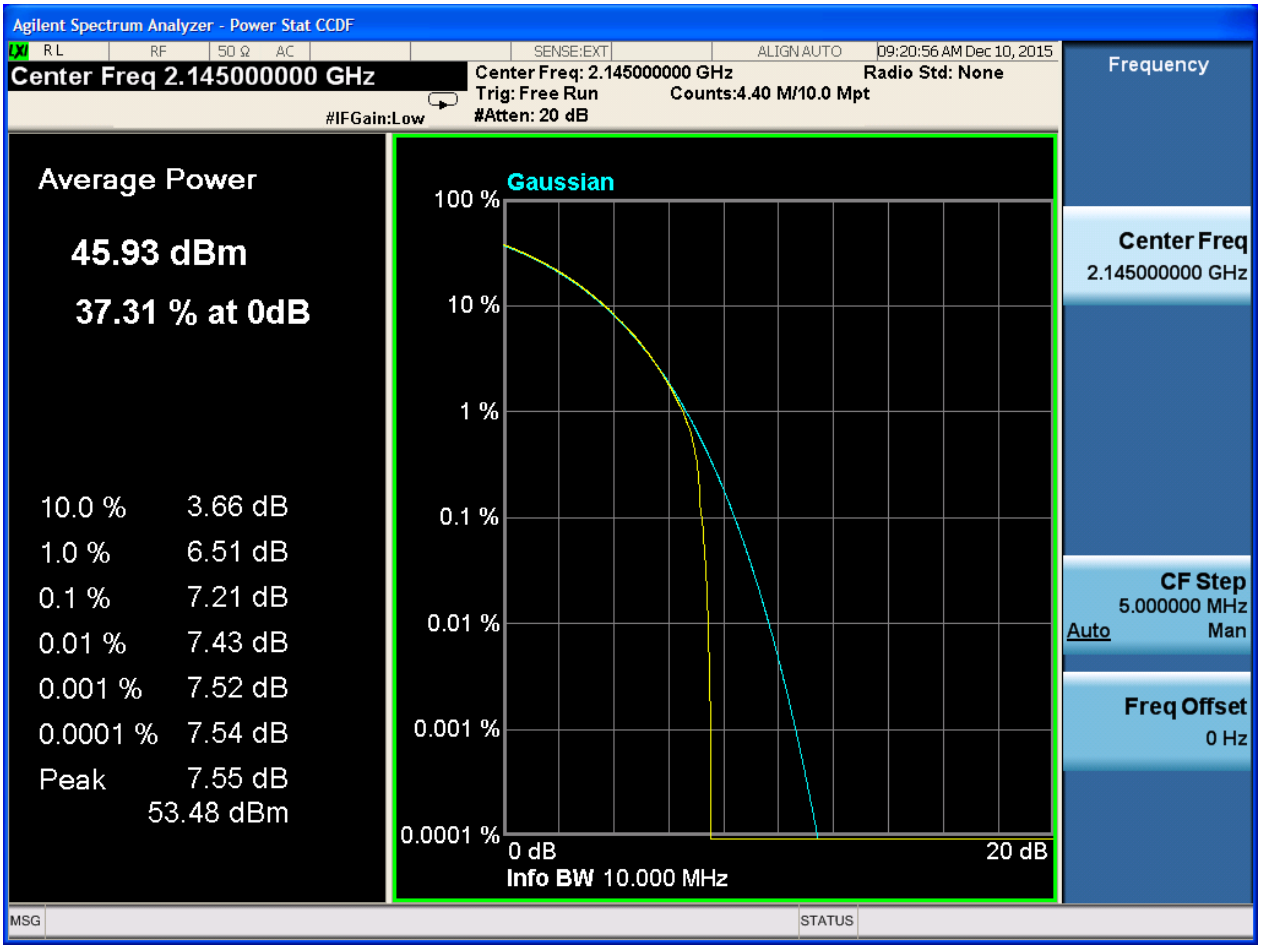
2.2.8 1L_10M_TM1.1_M



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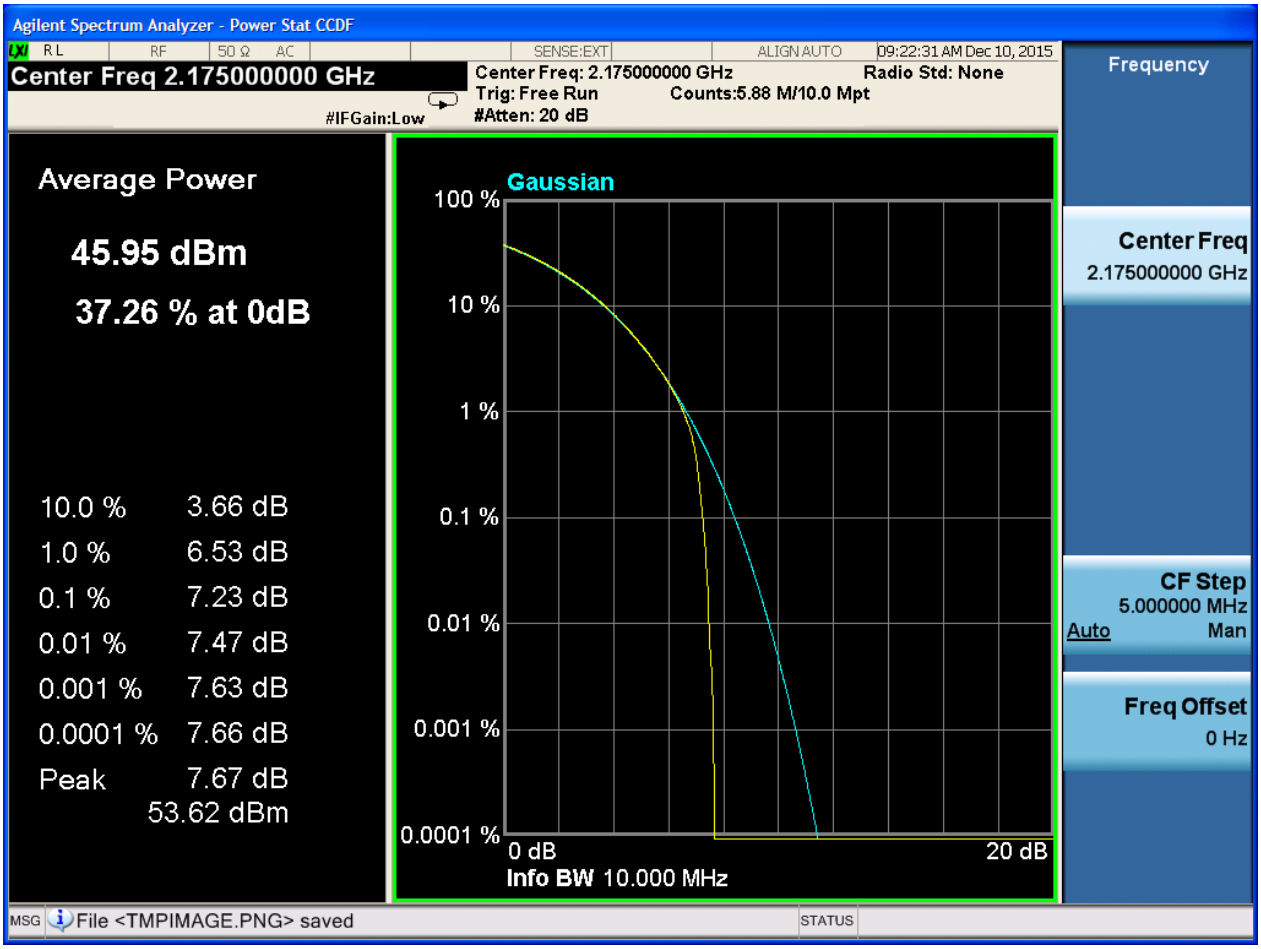
2.2.9 1L_10M_TM1.1_T



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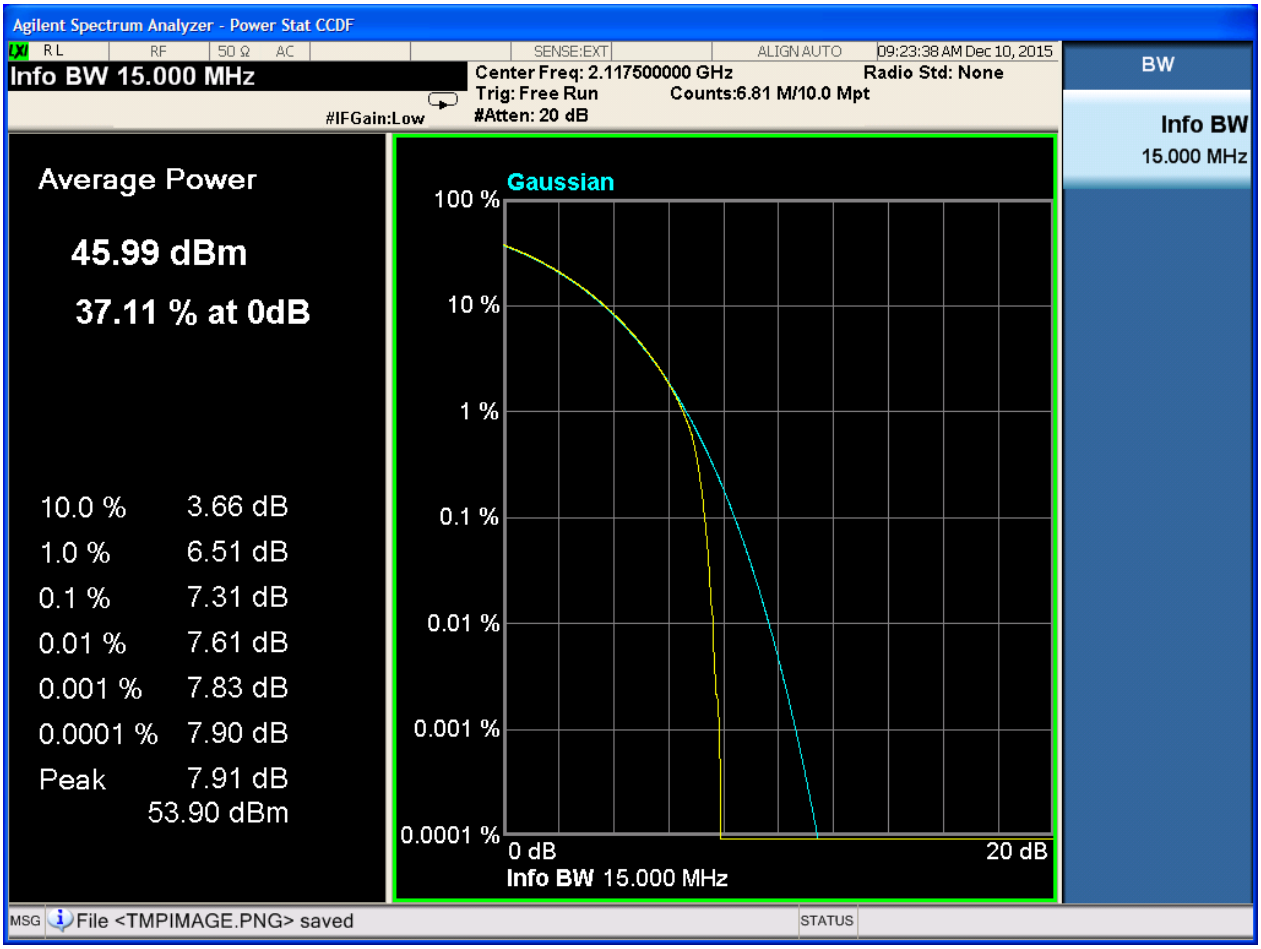
2.2.10 1L_15M_TM1.1_B



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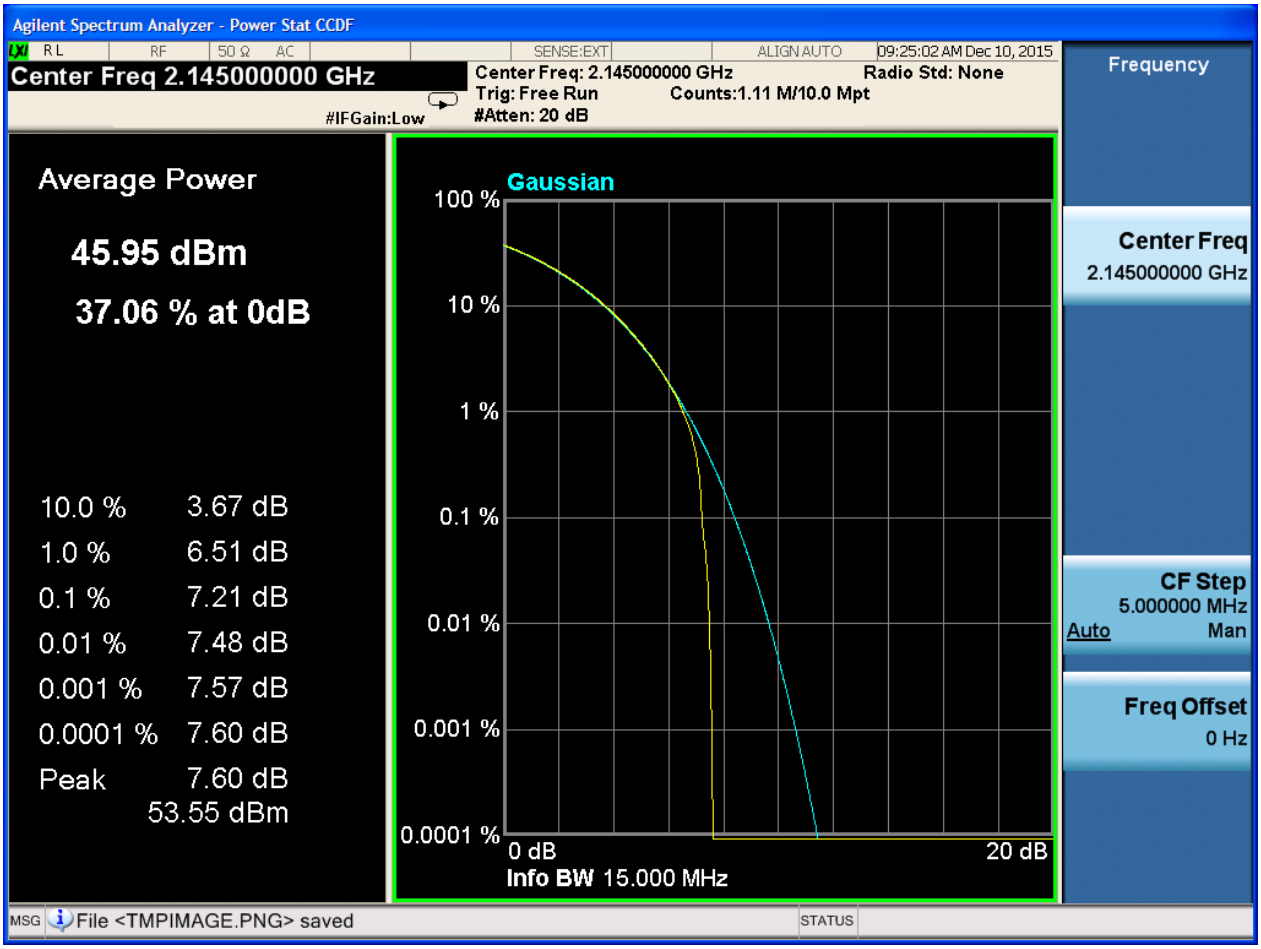
2.2.11 1L_15M_TM1.1_M



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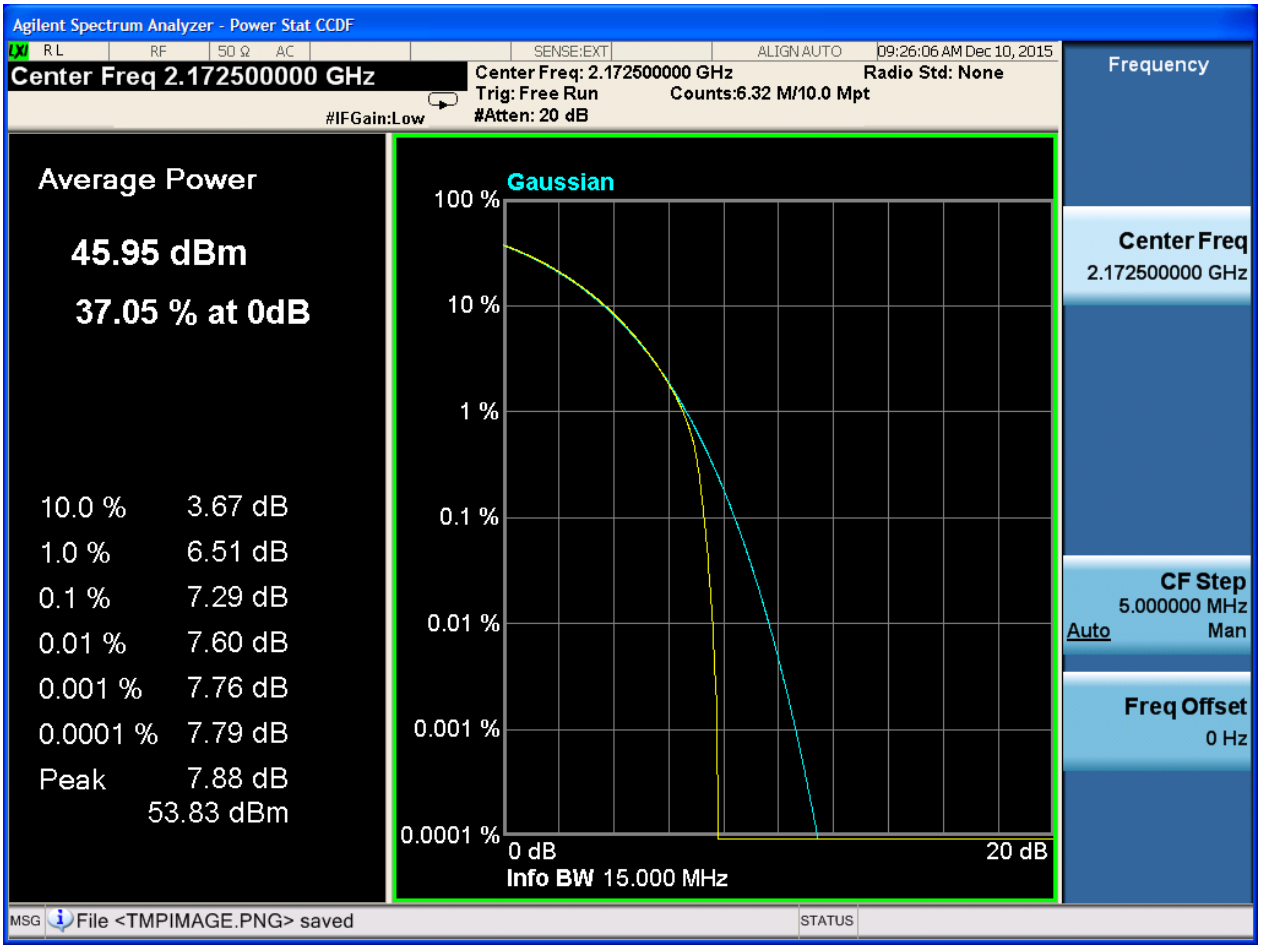
2.2.12 1L_15M_TM1.1_T



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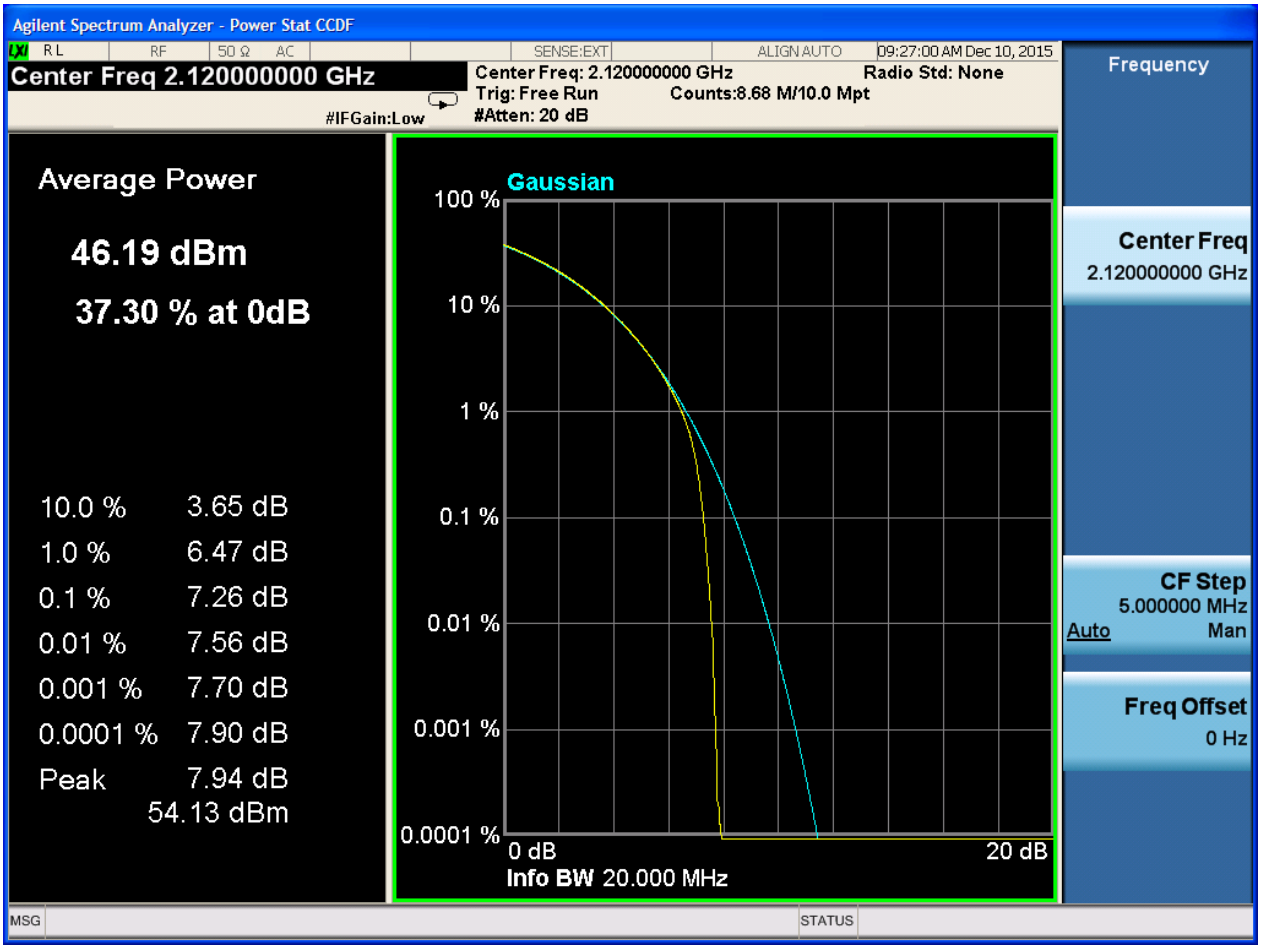
2.2.13 1L_20M_TM1.1_B



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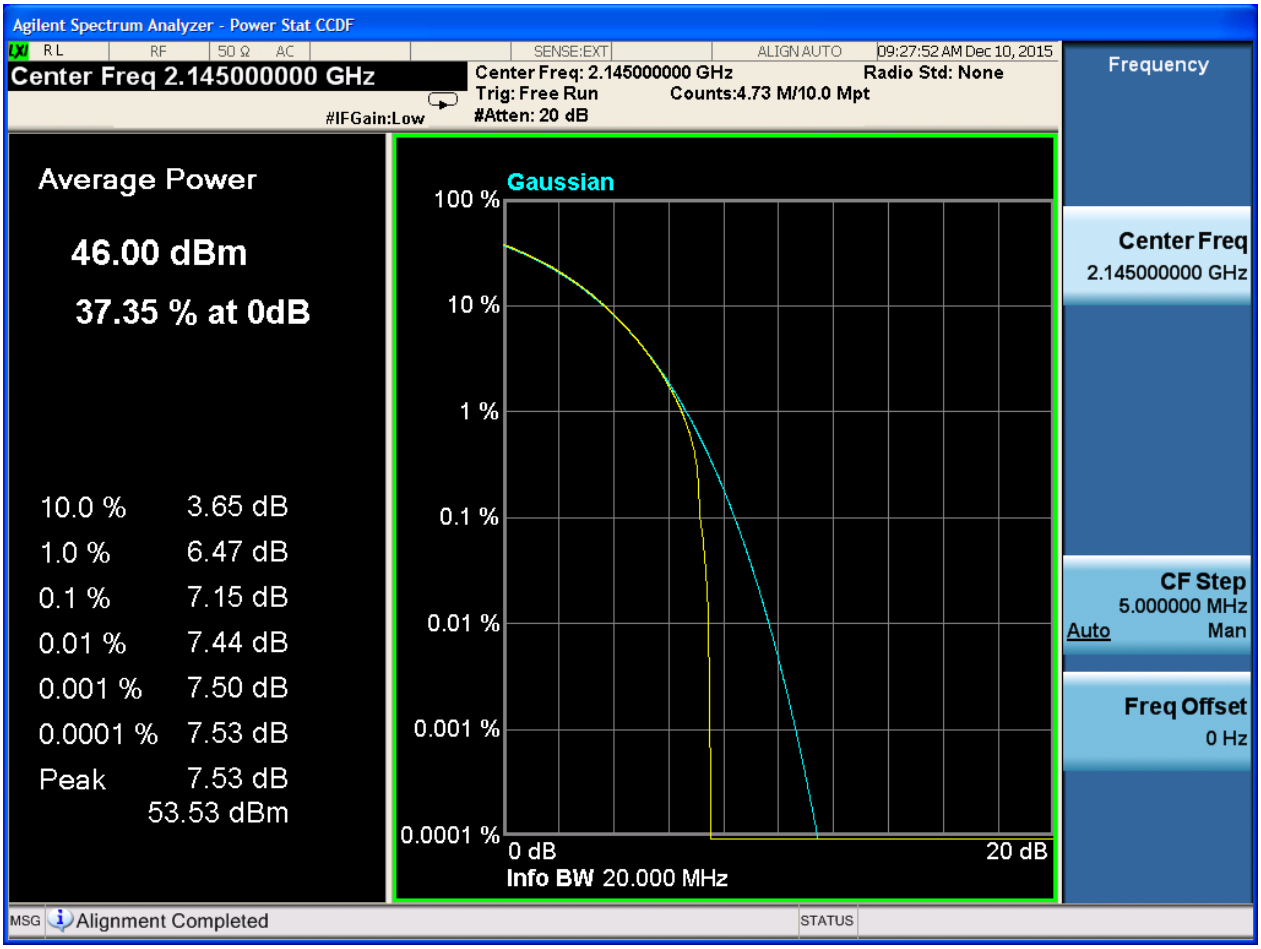
2.2.14 1L_20M_TM1.1_M



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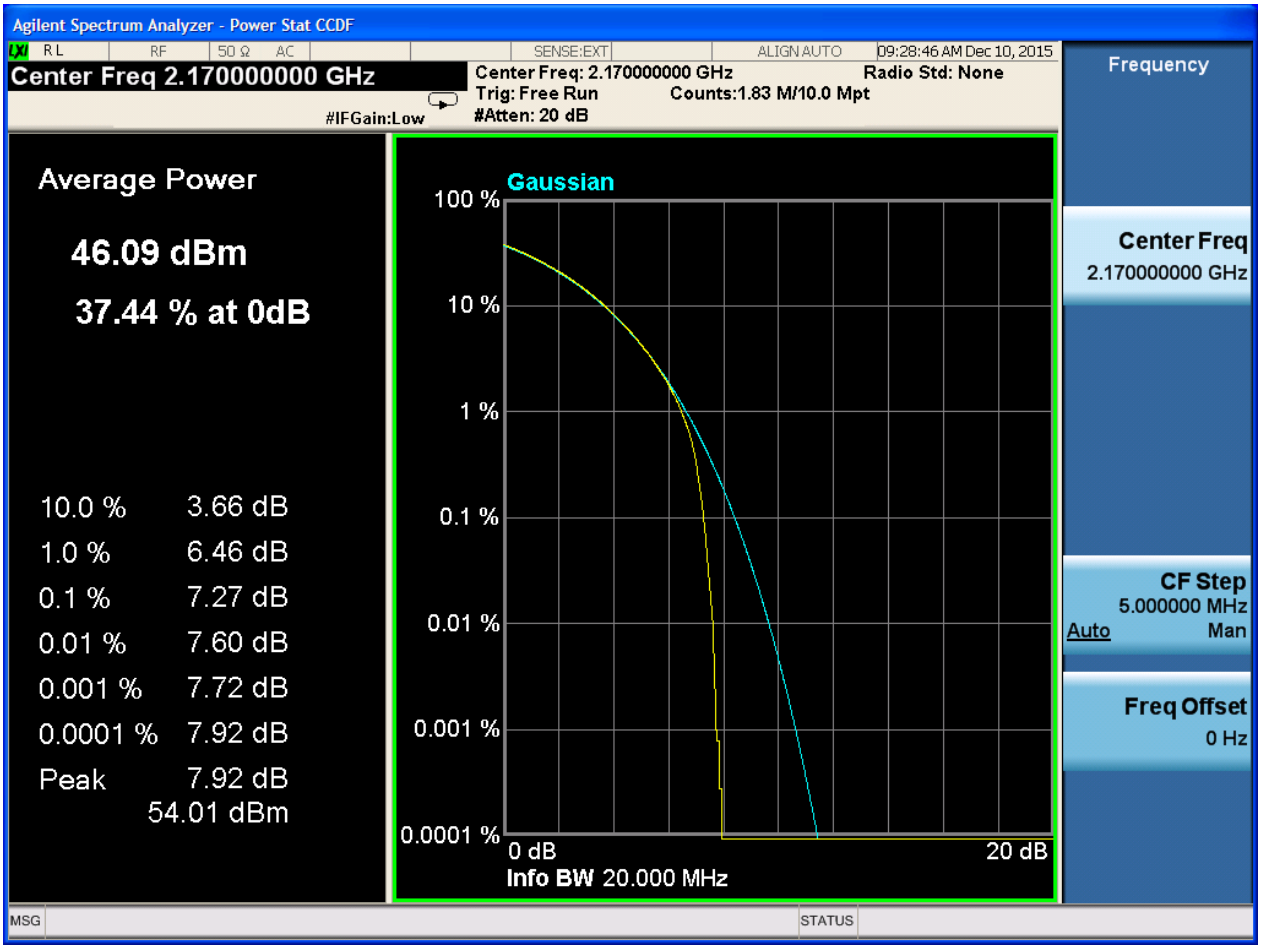
2.2.15 1L_20M_TM1.1_T



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Appendix B: Bandwidth

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1 Result Table

1.1 Occupied Bandwidth

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
1U_TM1_B	4.1294	Pass
1U_TM1_M	4.1383	Pass
1U_TM1_T	4.1407	Pass
1L_5M_TM1.1_B	4.4962	Pass
1L_5M_TM1.1_M	4.4932	Pass
1L_5M_TM1.1_T	4.4959	Pass
1L_10M_TM1.1_B	8.9666	Pass
1L_10M_TM1.1_M	8.9972	Pass
1L_10M_TM1.1_T	8.9667	Pass
1L_15M_TM1.1_B	13.4945	Pass
1L_15M_TM1.1_M	13.4968	Pass
1L_15M_TM1.1_T	13.4843	Pass
1L_20M_TM1.1_B	17.9333	Pass
1L_20M_TM1.1_M	17.9400	Pass
1L_20M_TM1.1_T	17.9124	Pass

1.2 Emission Bandwidth

EUT Conf.	Emission Bandwidth, -26 dBc [MHz]	Verdict
1U_TM1_B	4.6173	Pass
1U_TM1_M	4.6225	Pass
1U_TM1_T	4.6175	Pass
1L_5M_TM1.1_B	4.7194	Pass
1L_5M_TM1.1_M	4.7246	Pass
1L_5M_TM1.1_T	4.7245	Pass
1L_10M_TM1.1_B	9.3450	Pass
1L_10M_TM1.1_M	9.3654	Pass
1L_10M_TM1.1_T	9.3655	Pass
1L_15M_TM1.1_B	13.9656	Pass
1L_15M_TM1.1_M	13.9656	Pass
1L_15M_TM1.1_T	13.9707	Pass
1L_20M_TM1.1_B	18.5020	Pass
1L_20M_TM1.1_M	18.5263	Pass
1L_20M_TM1.1_T	18.5021	Pass

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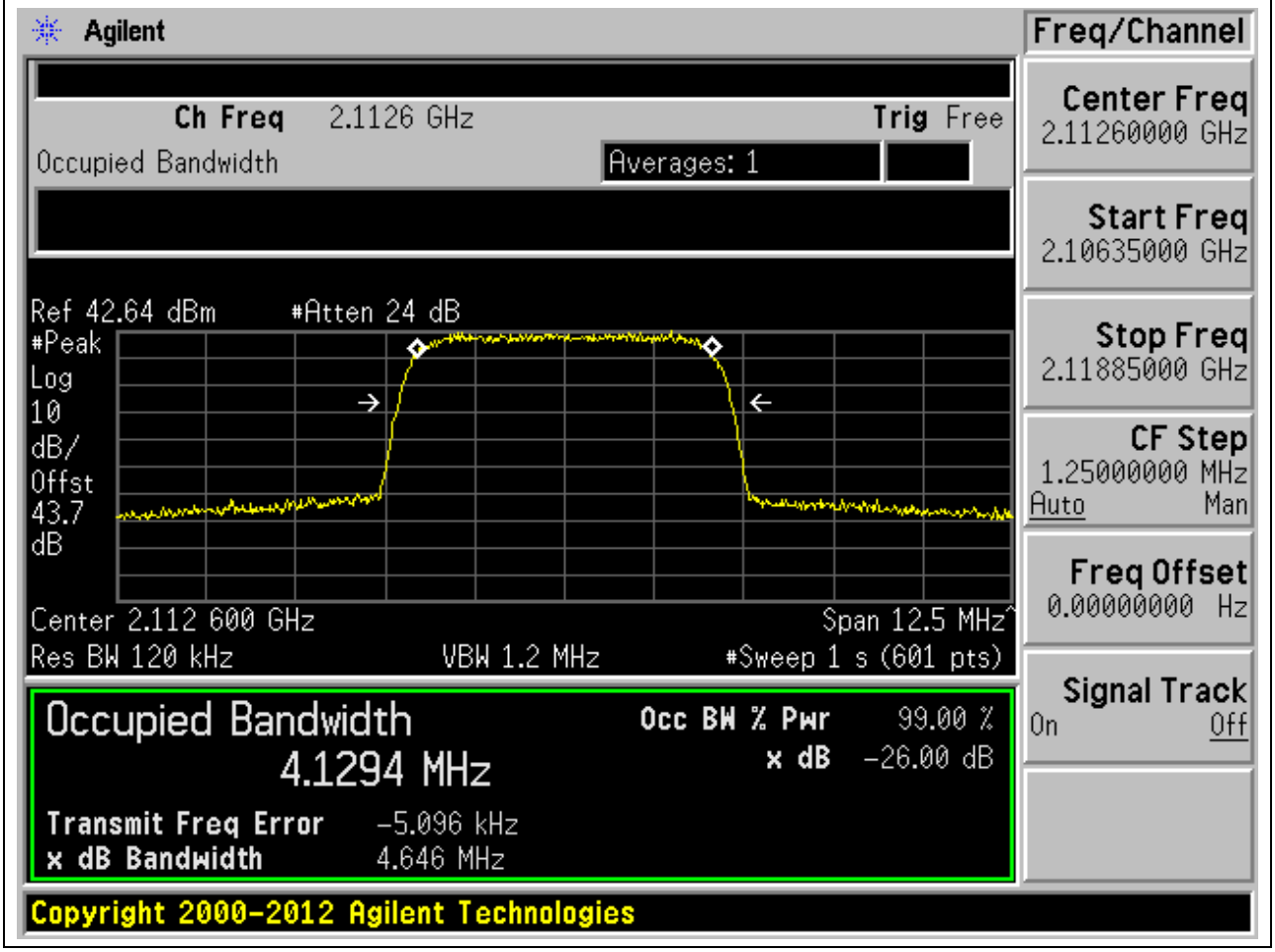
2 Test Plot

2.1 Occupied Bandwidth

2.1.1 1U_TM1_B

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2112.6	99	Auto	RMS	4.129441	No Conclusion



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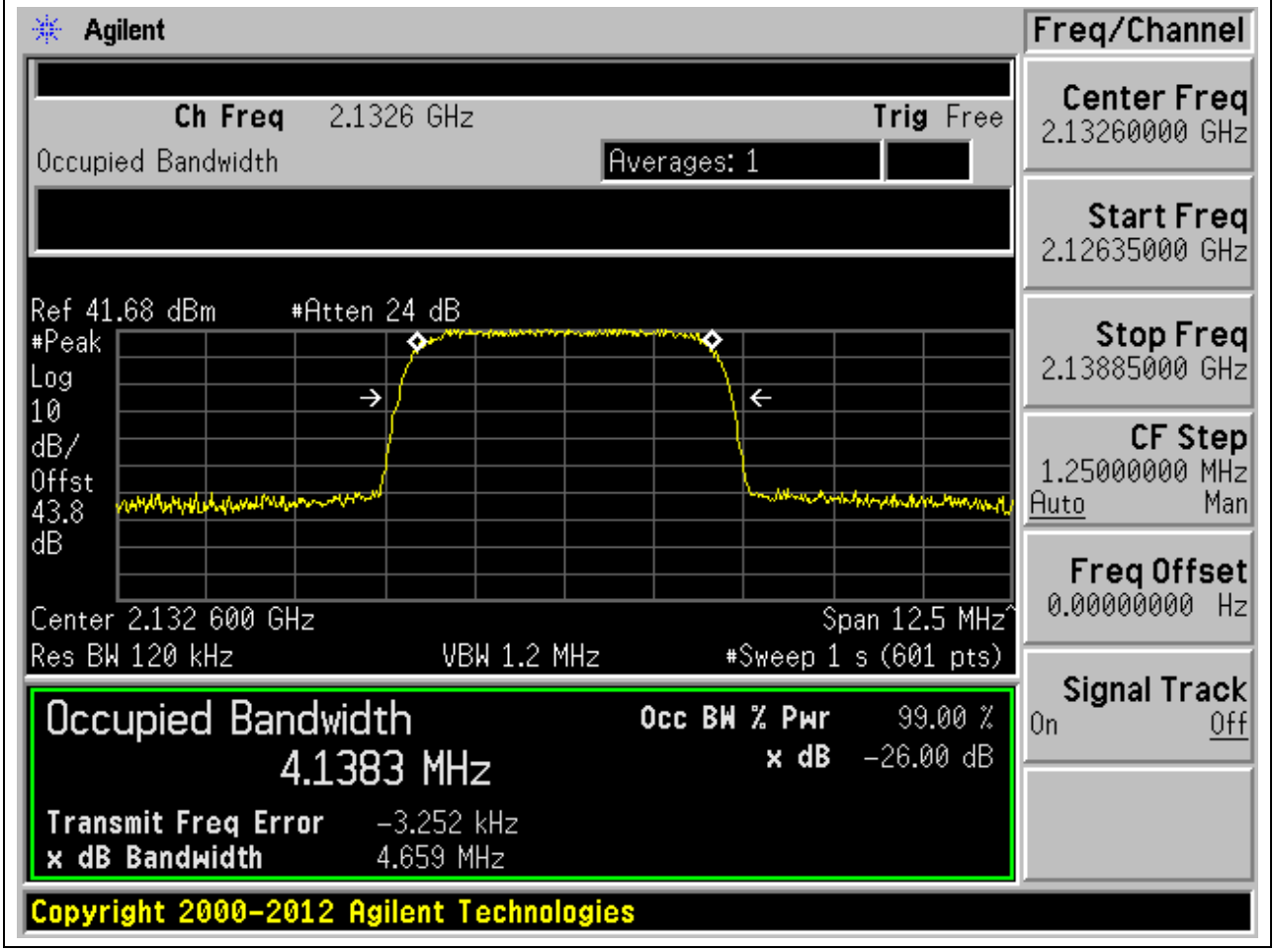
2.1.2 1U_TM1_M

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2132.6	99	Auto	RMS	4.13828	No Conclusion



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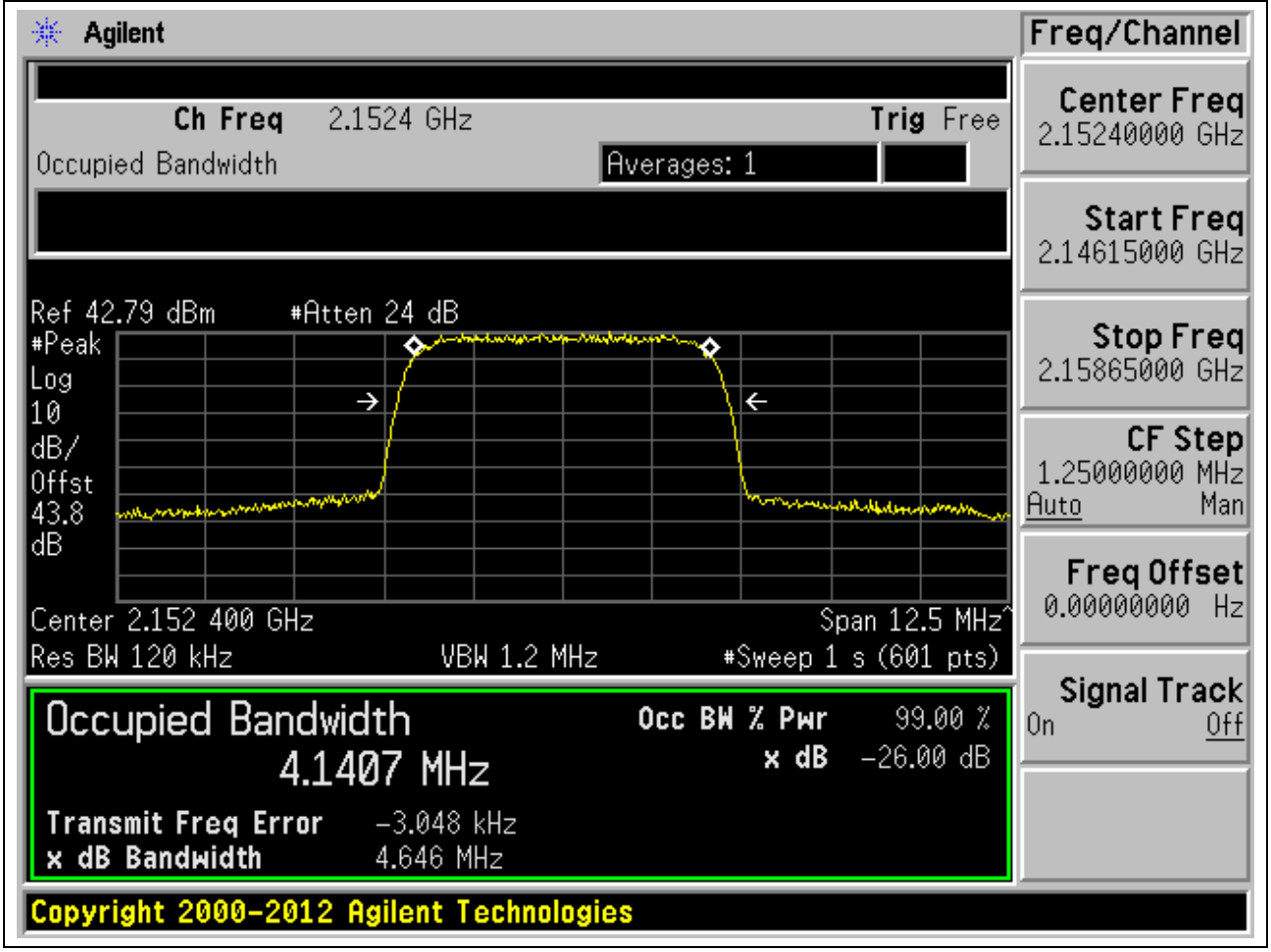
2.1.3 1U_TM1_T

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2152.4	99	Auto	RMS	4.140654	No Conclusion



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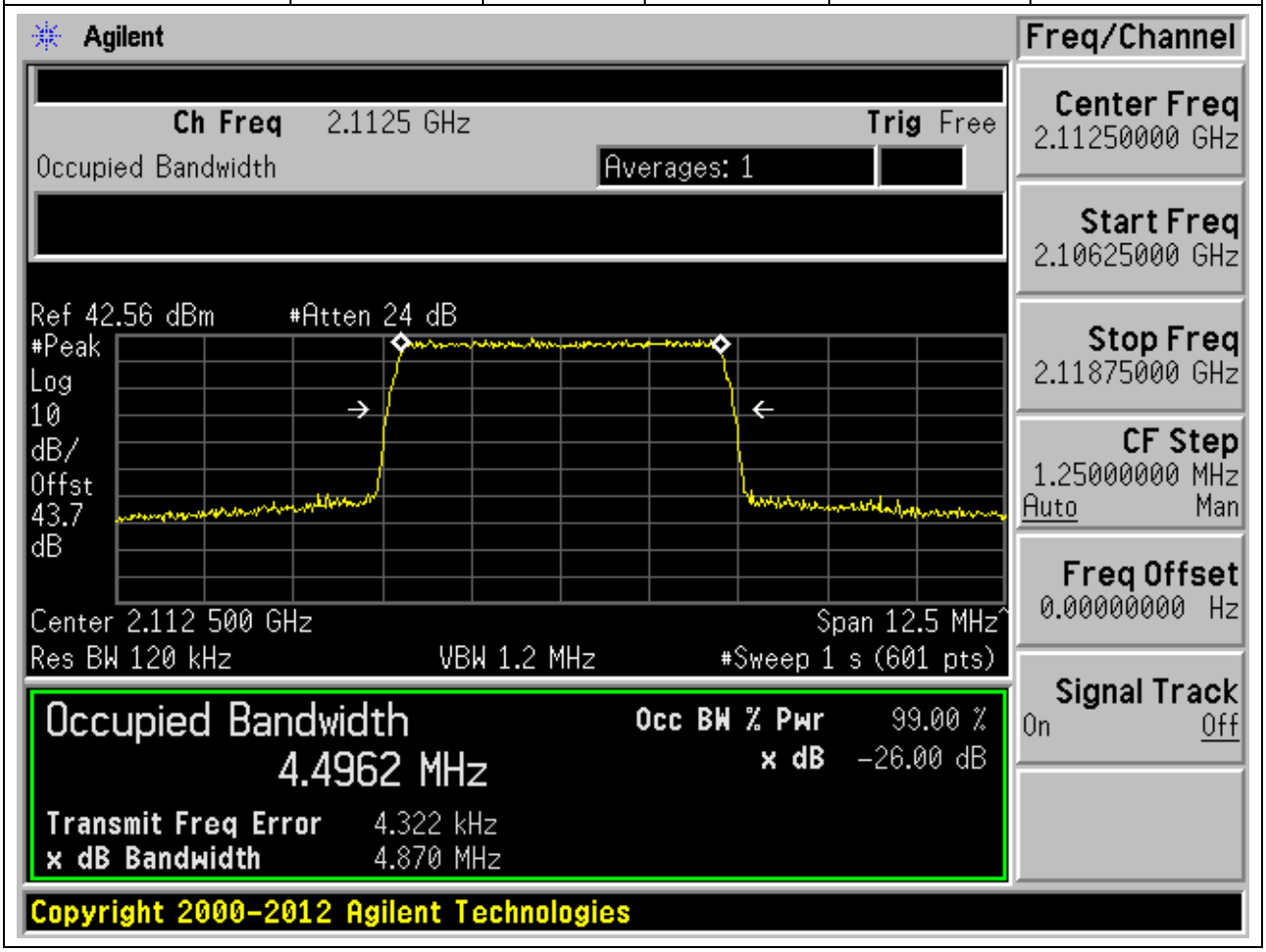
2.1.4 1L_5M_TM1.1_B

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2112.5	99	Auto	RMS	4.496192	No Conclusion



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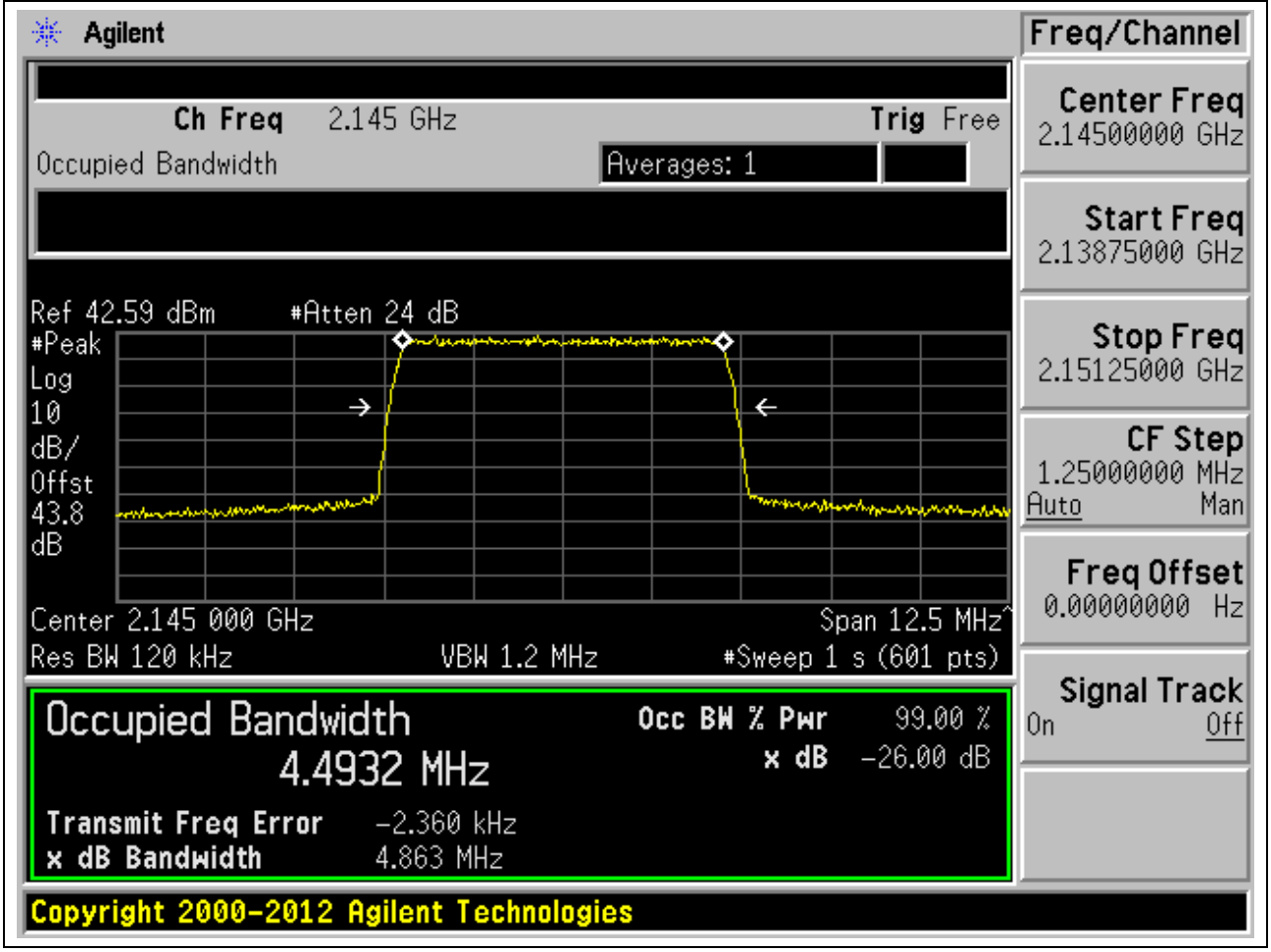
2.1.5 1L_5M_TM1.1_M

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2145	99	Auto	RMS	4.493231	No Conclusion



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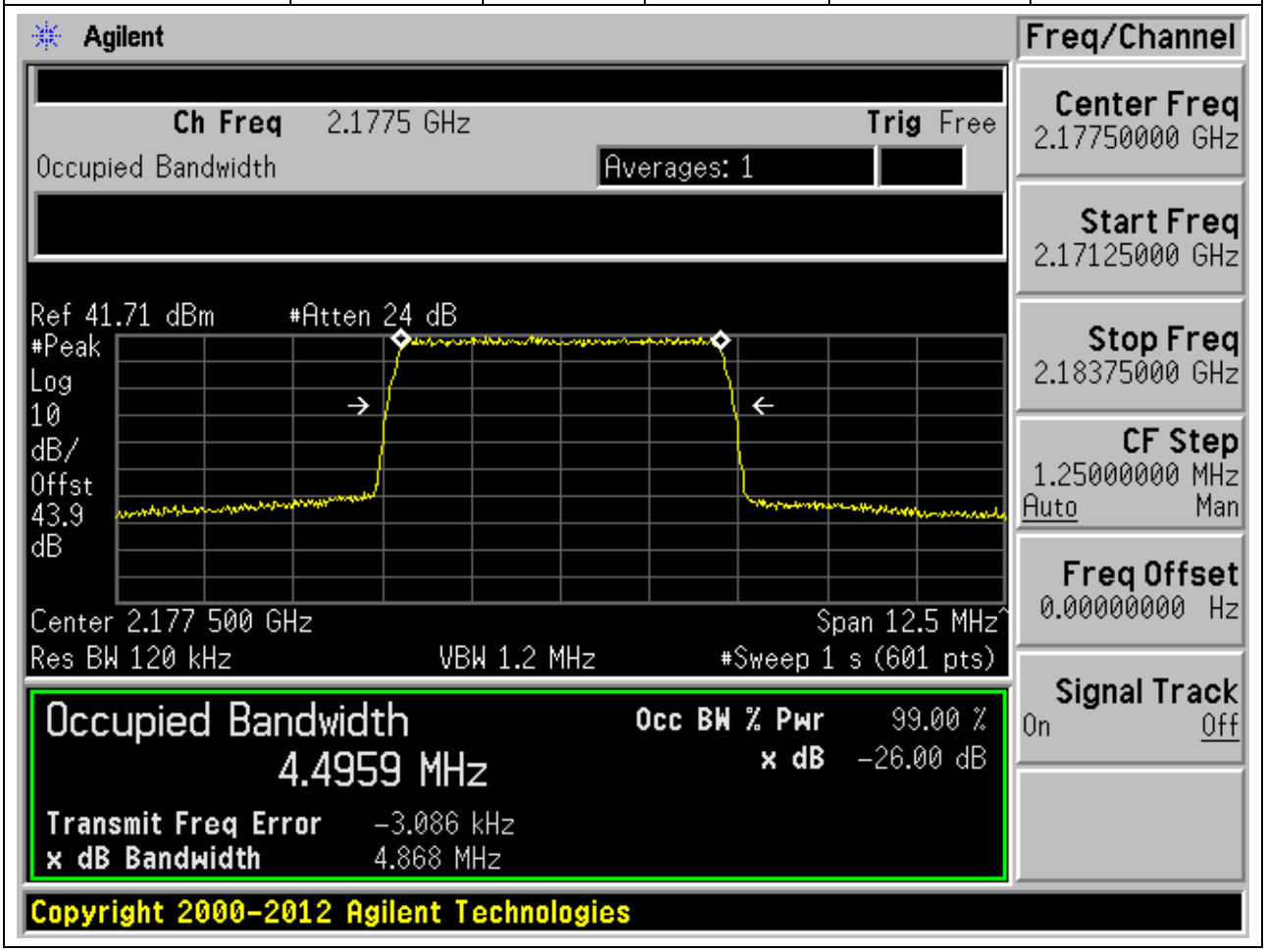
2.1.6 1L_5M_TM1.1_T

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2177.5	99	Auto	RMS	4.495882	No Conclusion



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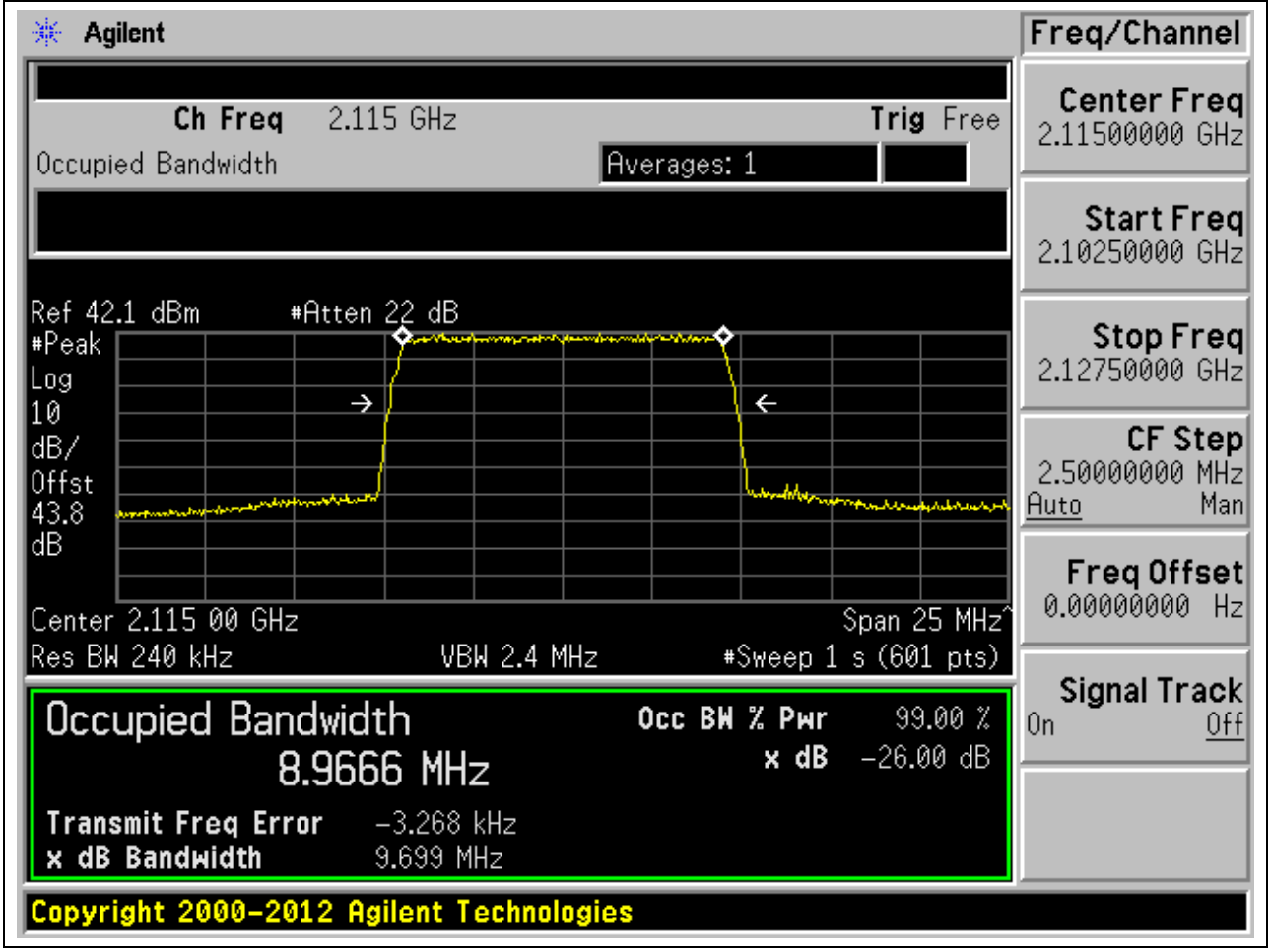
2.1.7 1L_10M_TM1.1_B

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2115	99	Auto	RMS	8.966594	No Conclusion



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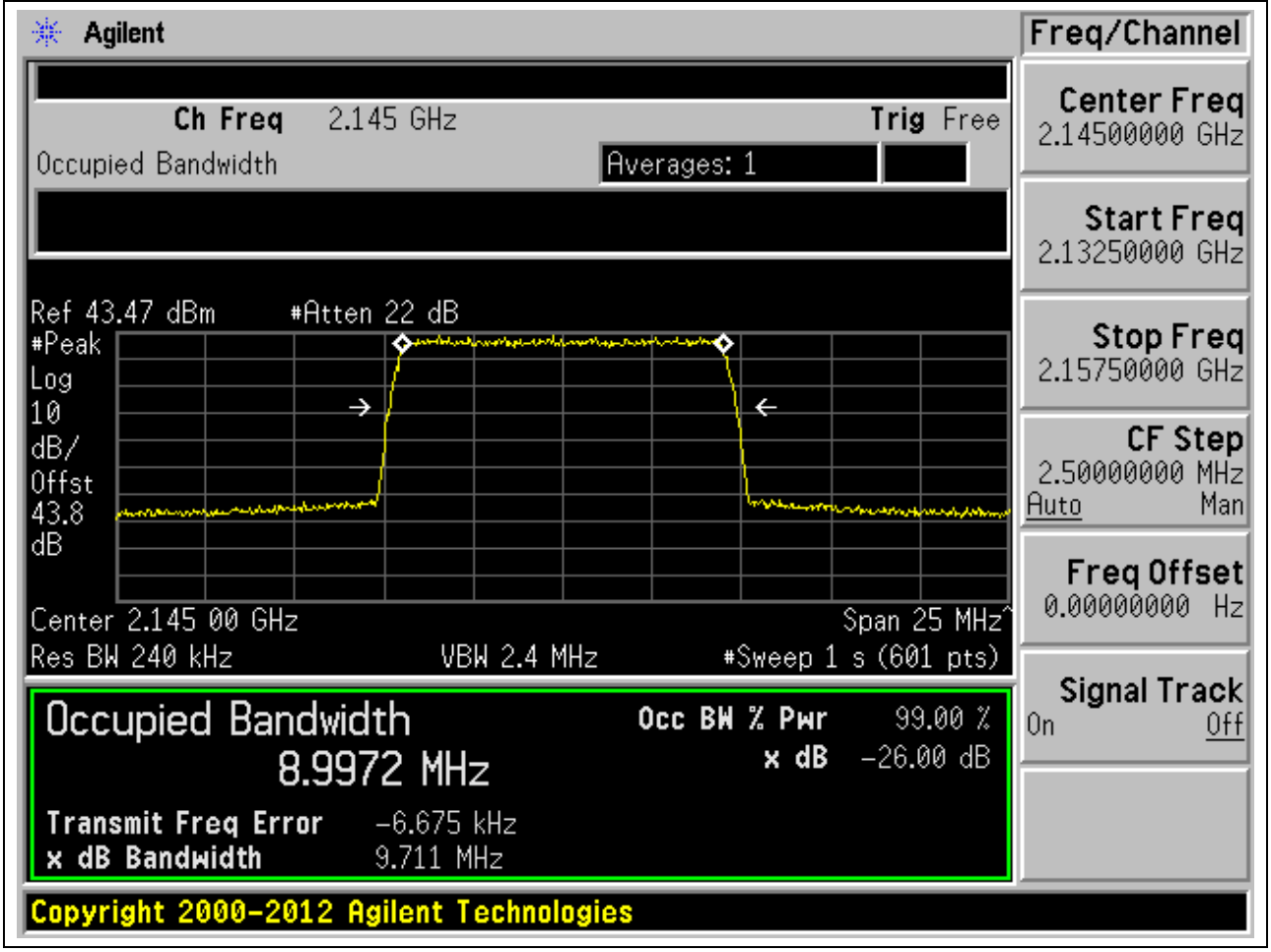
2.1.8 1L_10M_TM1.1_M

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2145	99	Auto	RMS	8.997189	No Conclusion



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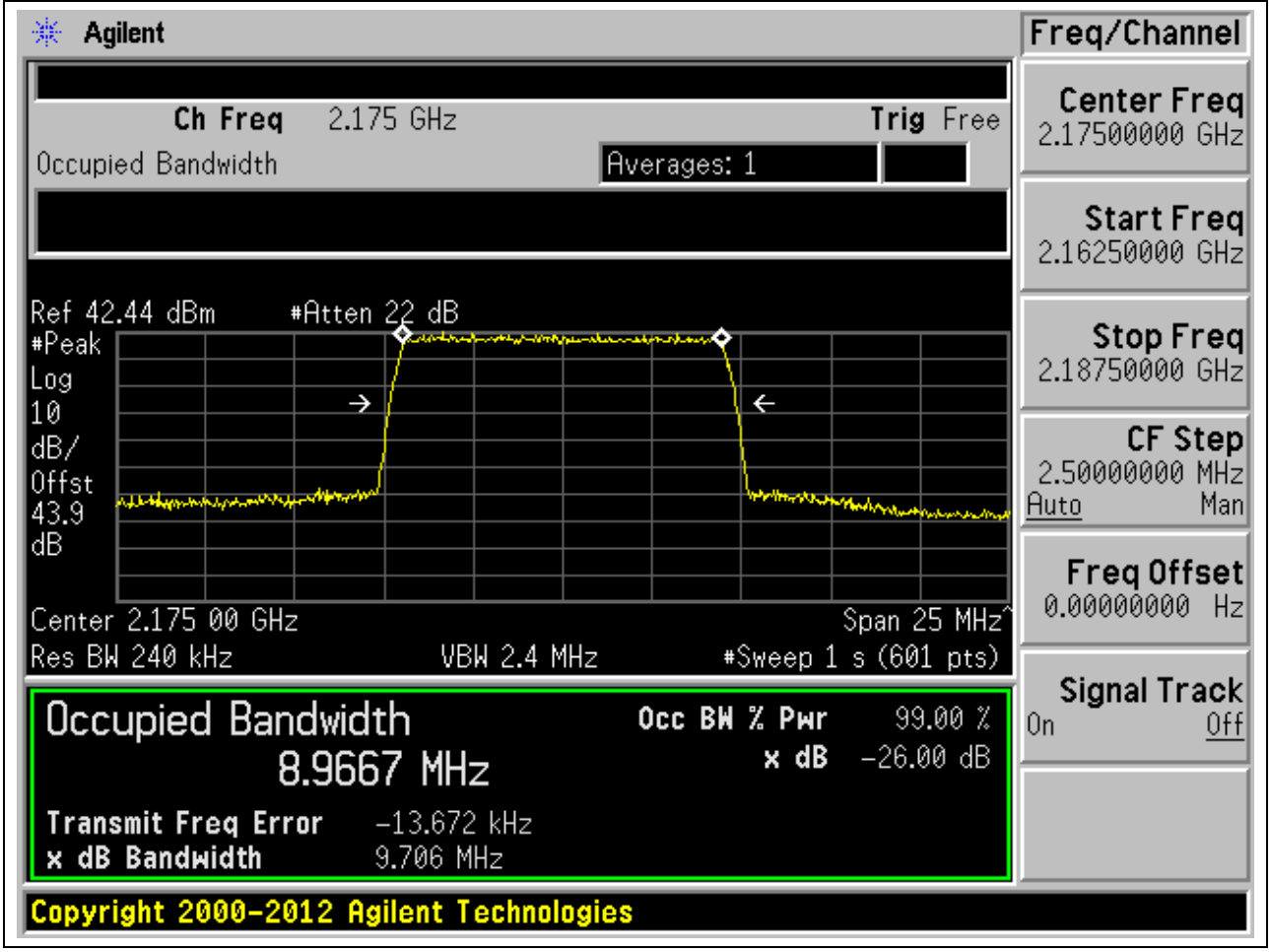
2.1.9 1L_10M_TM1.1_T

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2175	99	Auto	RMS	8.966668	No Conclusion



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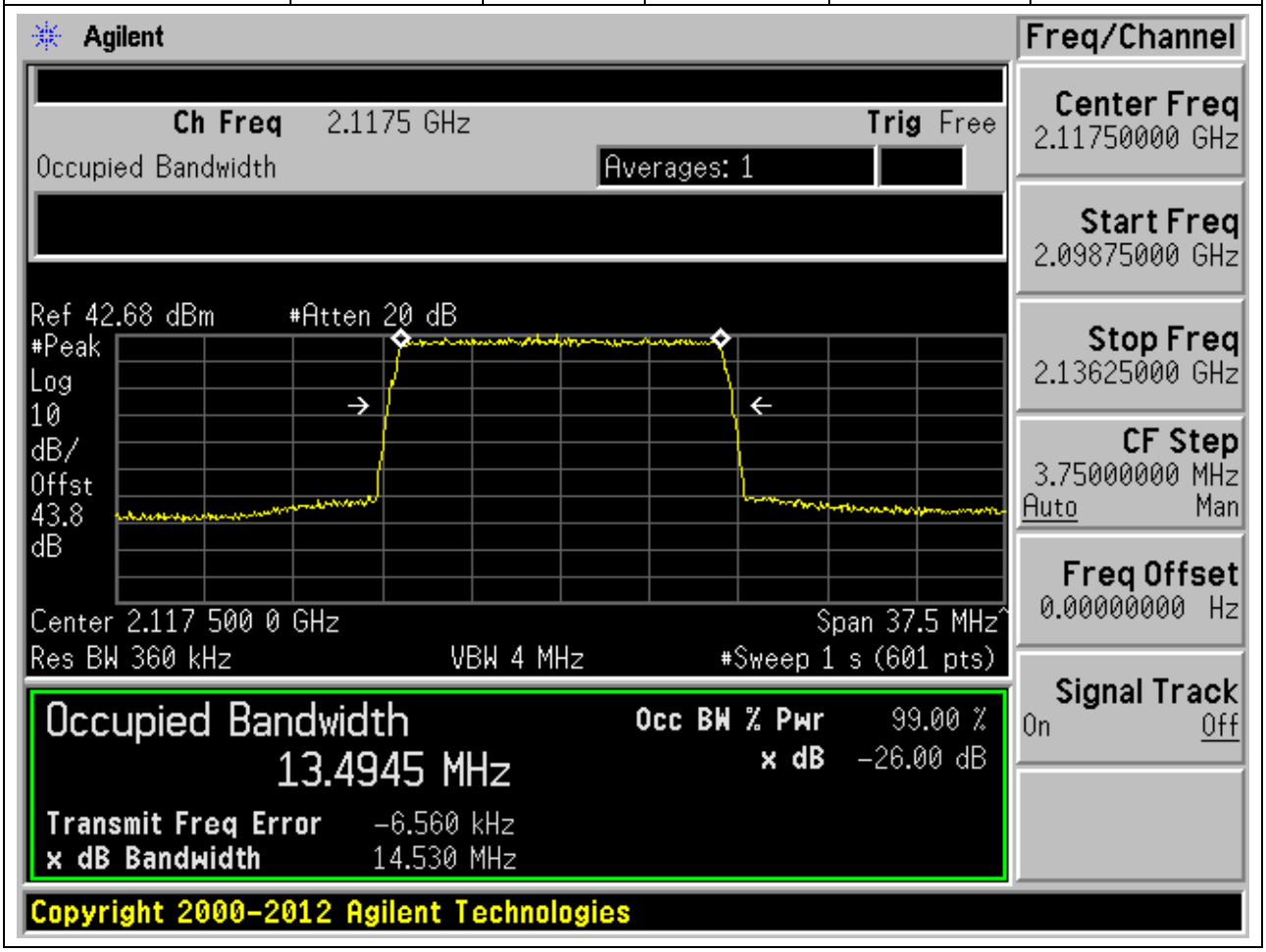
2.1.10 1L_15M_TM1.1_B

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2117.5	99	Auto	RMS	13.49446	No Conclusion



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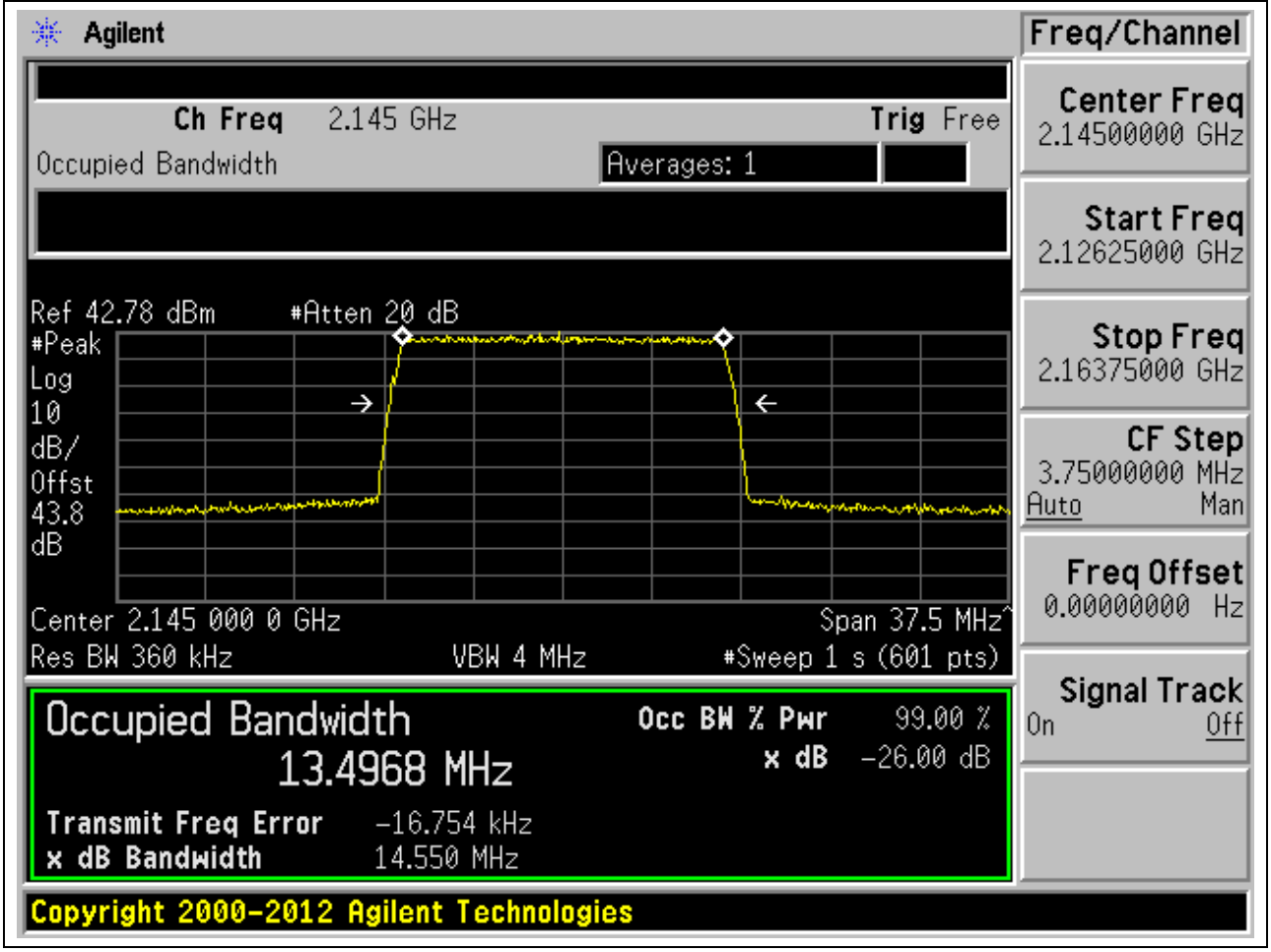
2.1.11 1L_15M_TM1.1_M

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2145	99	Auto	RMS	13.49675	No Conclusion



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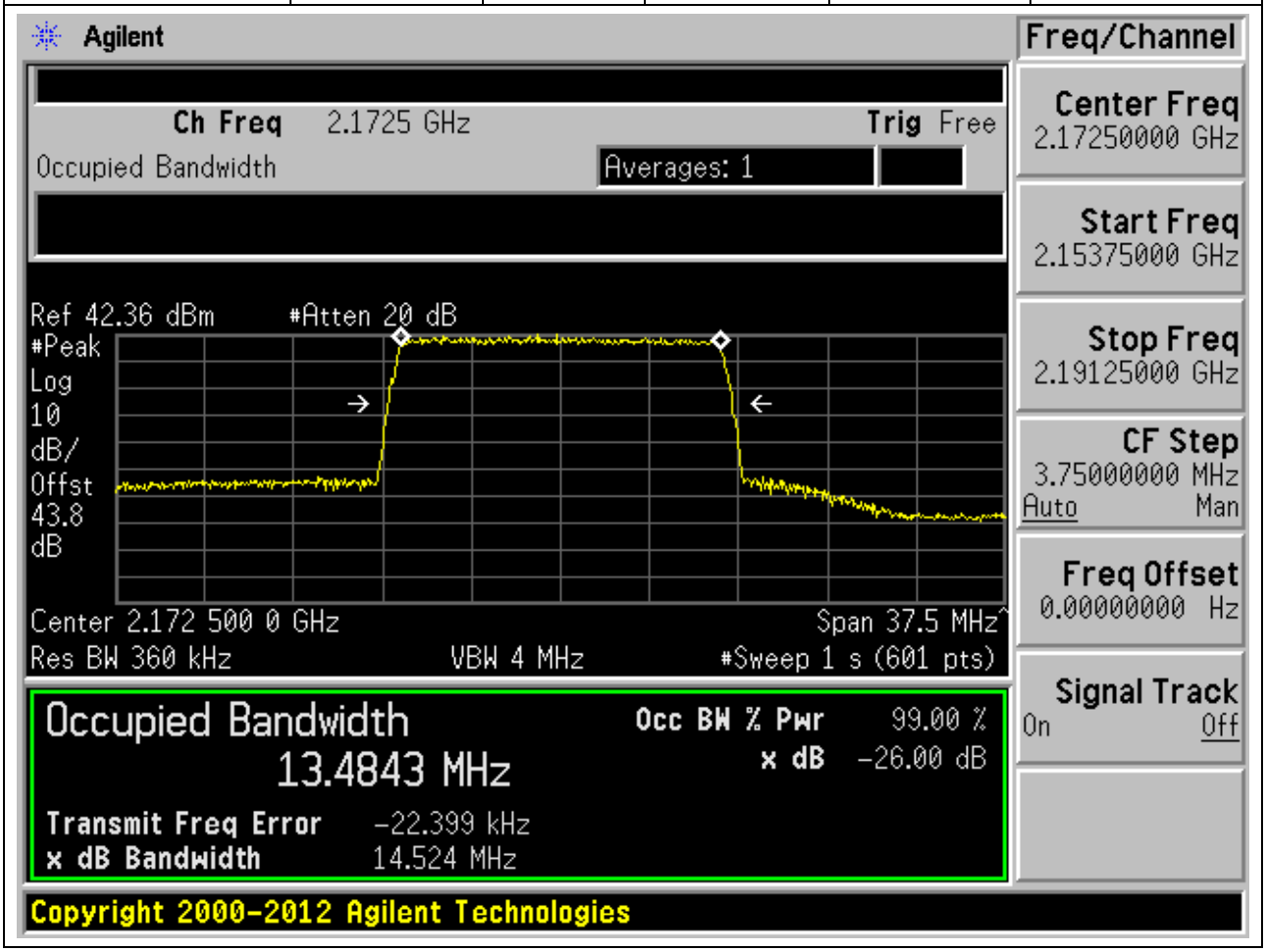
2.1.12 1L_15M_TM1.1_T

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2172.5	99	Auto	RMS	13.48434	No Conclusion



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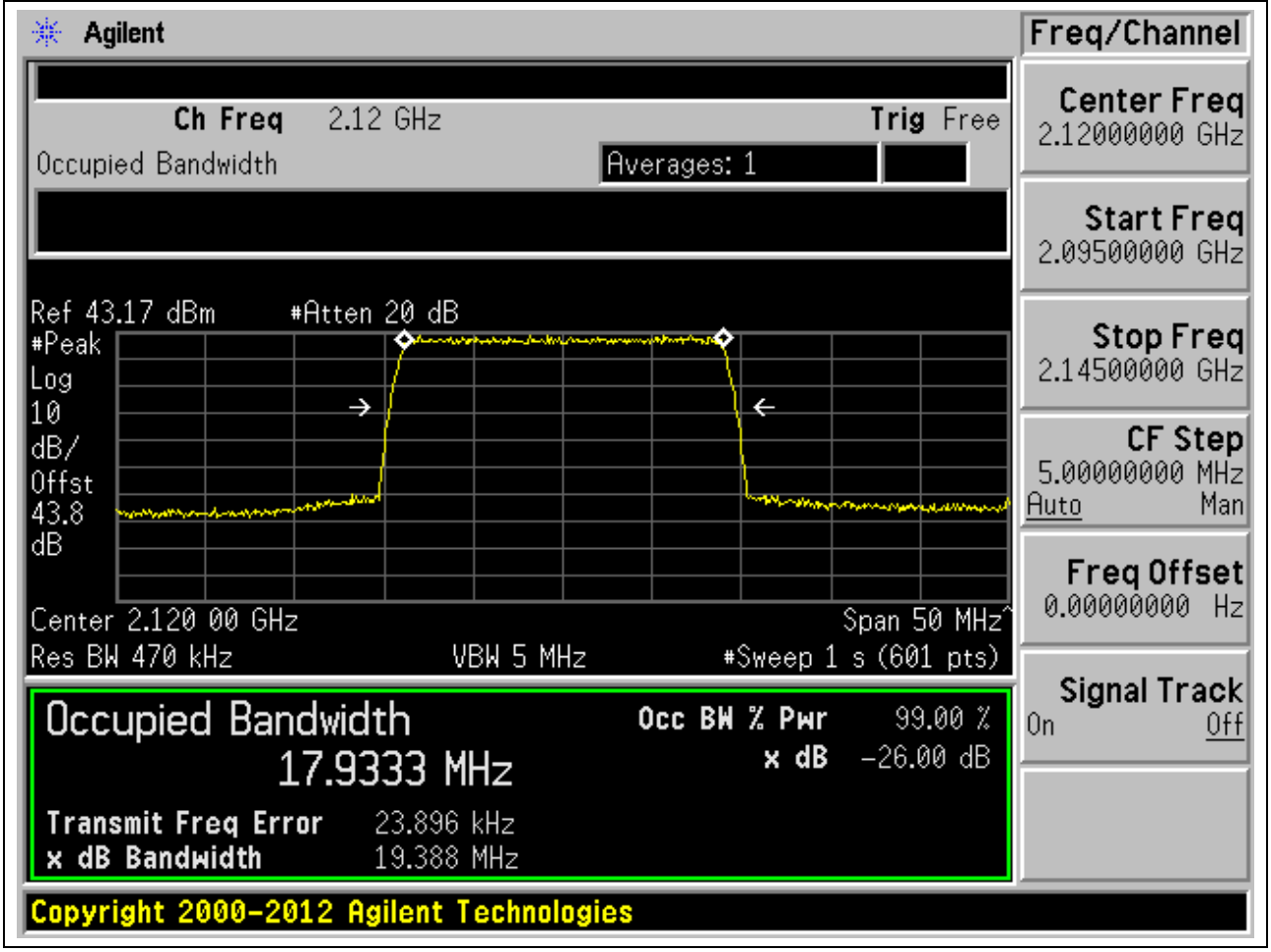
2.1.13 1L_20M_TM1.1_B

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2120	99	Auto	RMS	17.93334	No Conclusion



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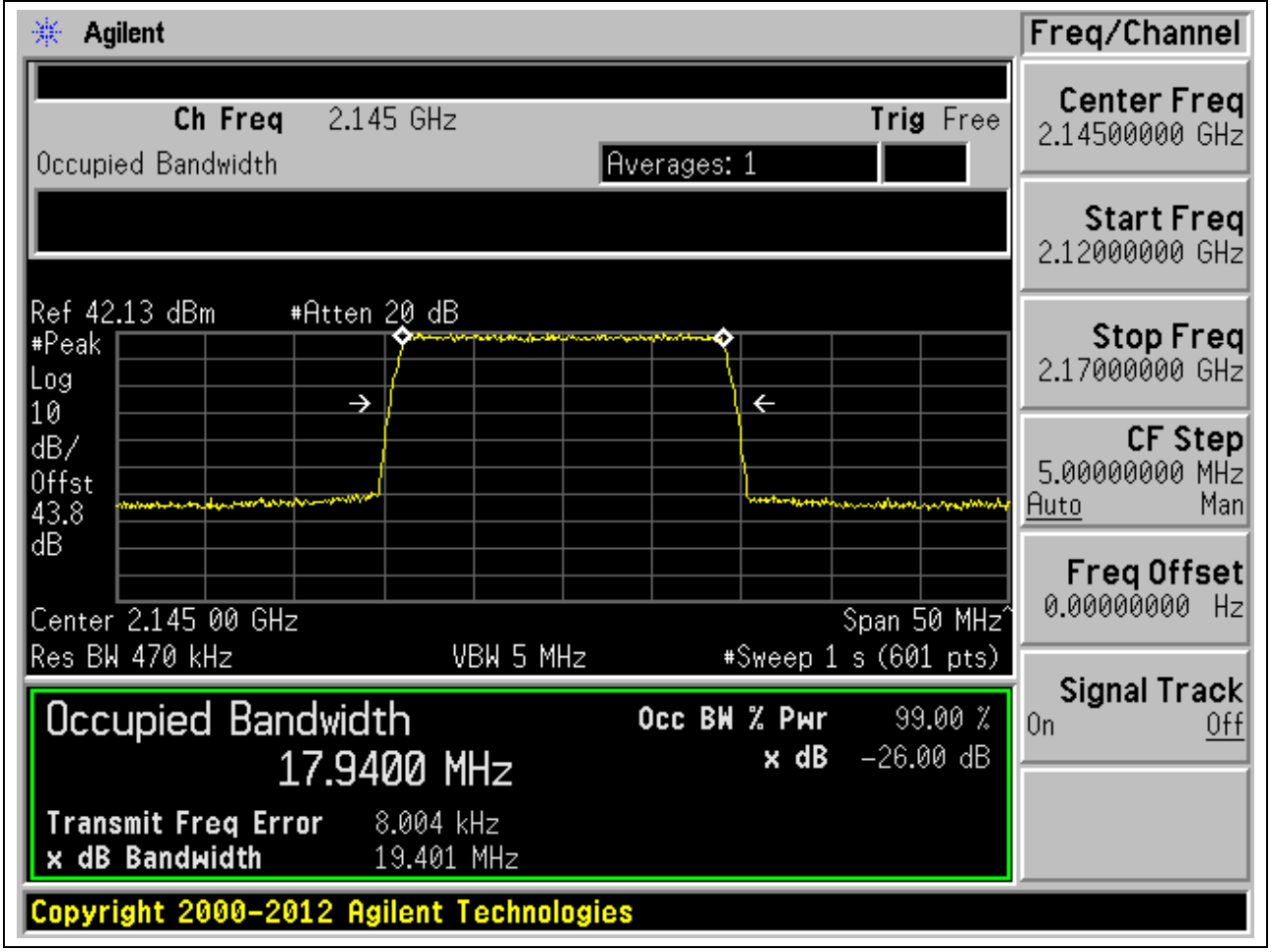
2.1.14 1L_20M_TM1.1_M

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2145	99	Auto	RMS	17.94004	No Conclusion



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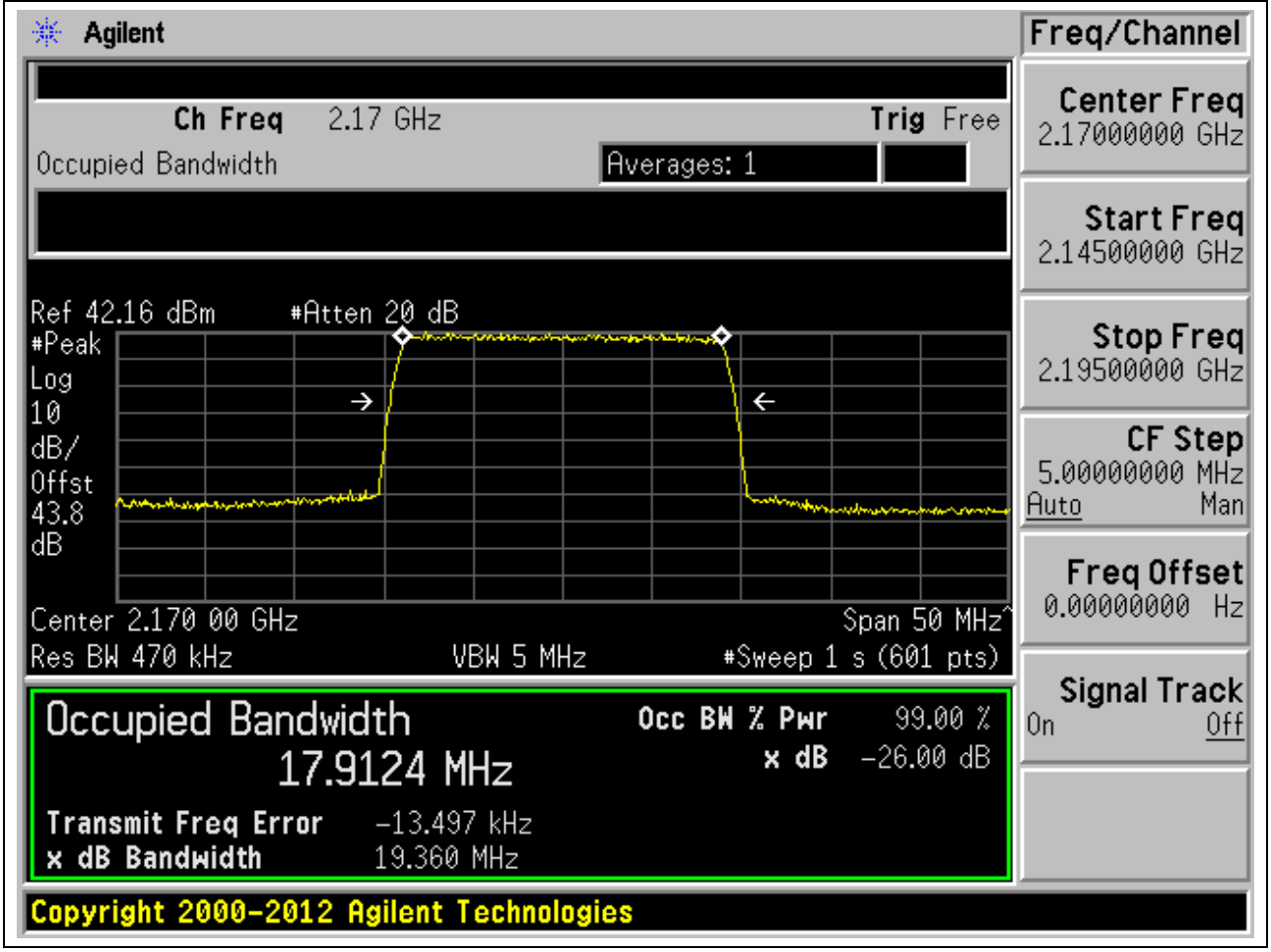
2.1.15 1L_20M_TM1.1_T

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2170	99	Auto	RMS	17.9124	No Conclusion



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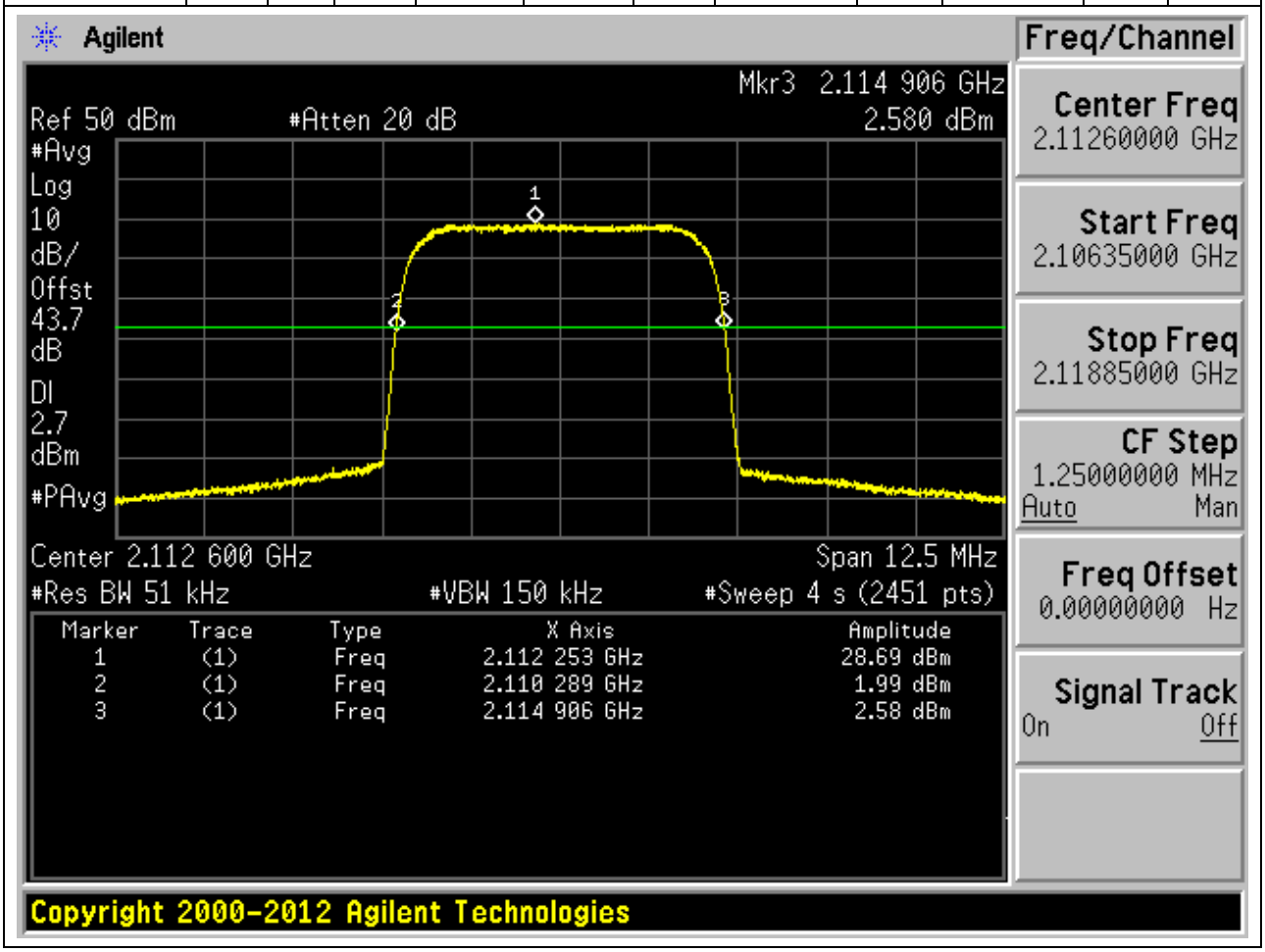
2.2 26 dB Emission Bandwidth

2.2.1 1U_TM1_B

Center Frequency[MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2112.6	12.5	26	0.051	RMS	4.617344	5	2110.288768	2110	2114.906112	2180	Pass



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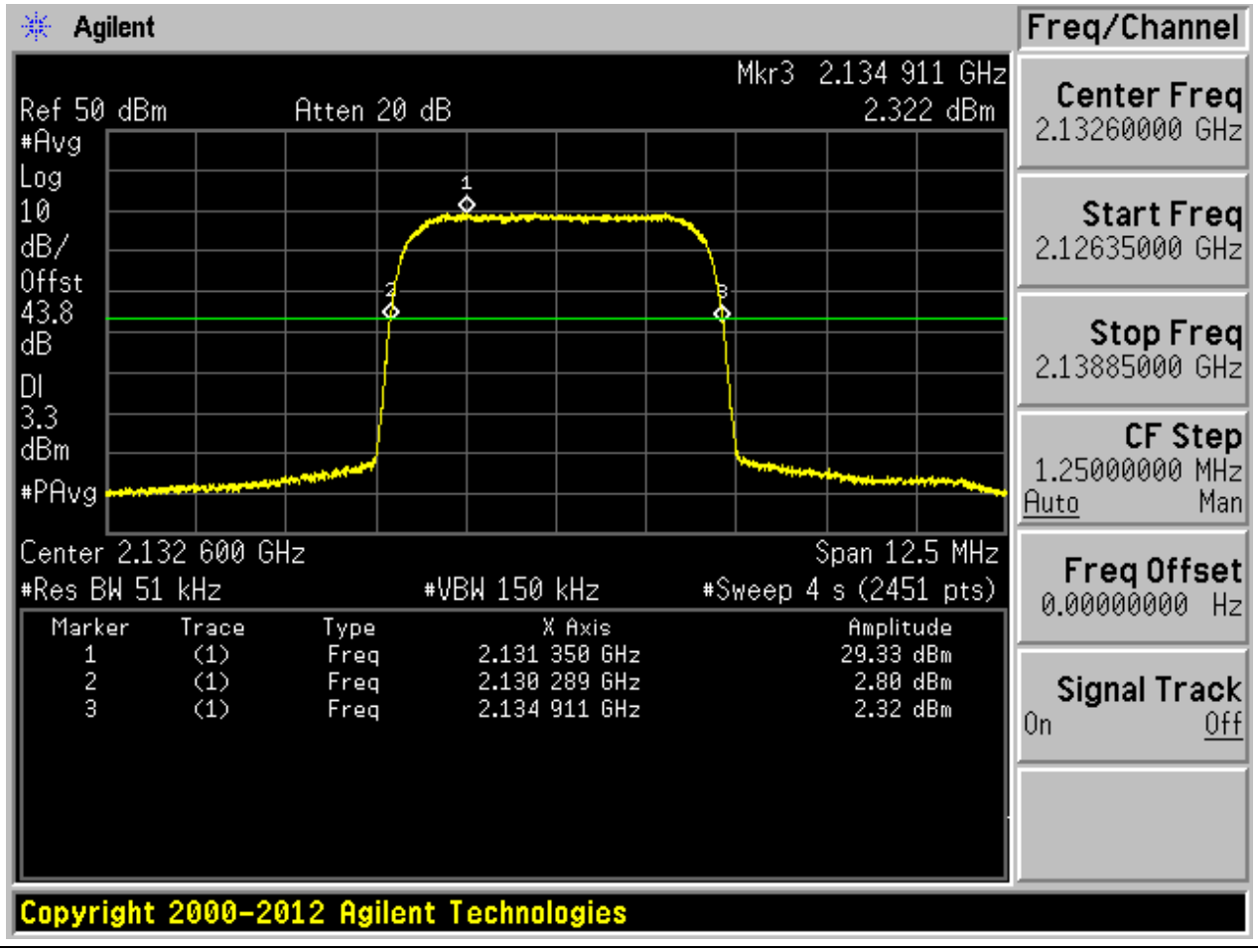
2.2.2 1U_TM1_M

Center Frequency[MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2132.6	12.5	26	0.051	RMS	4.622464	5	2130.288768	2110	2134.911232	2180	Pass



2.2.3 1U_TM1_T

Center Frequency[MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2152.4	12.5	26	0.051	RMS	4.617472	5	2150.088704	2110	2154.706176	2180	Pass

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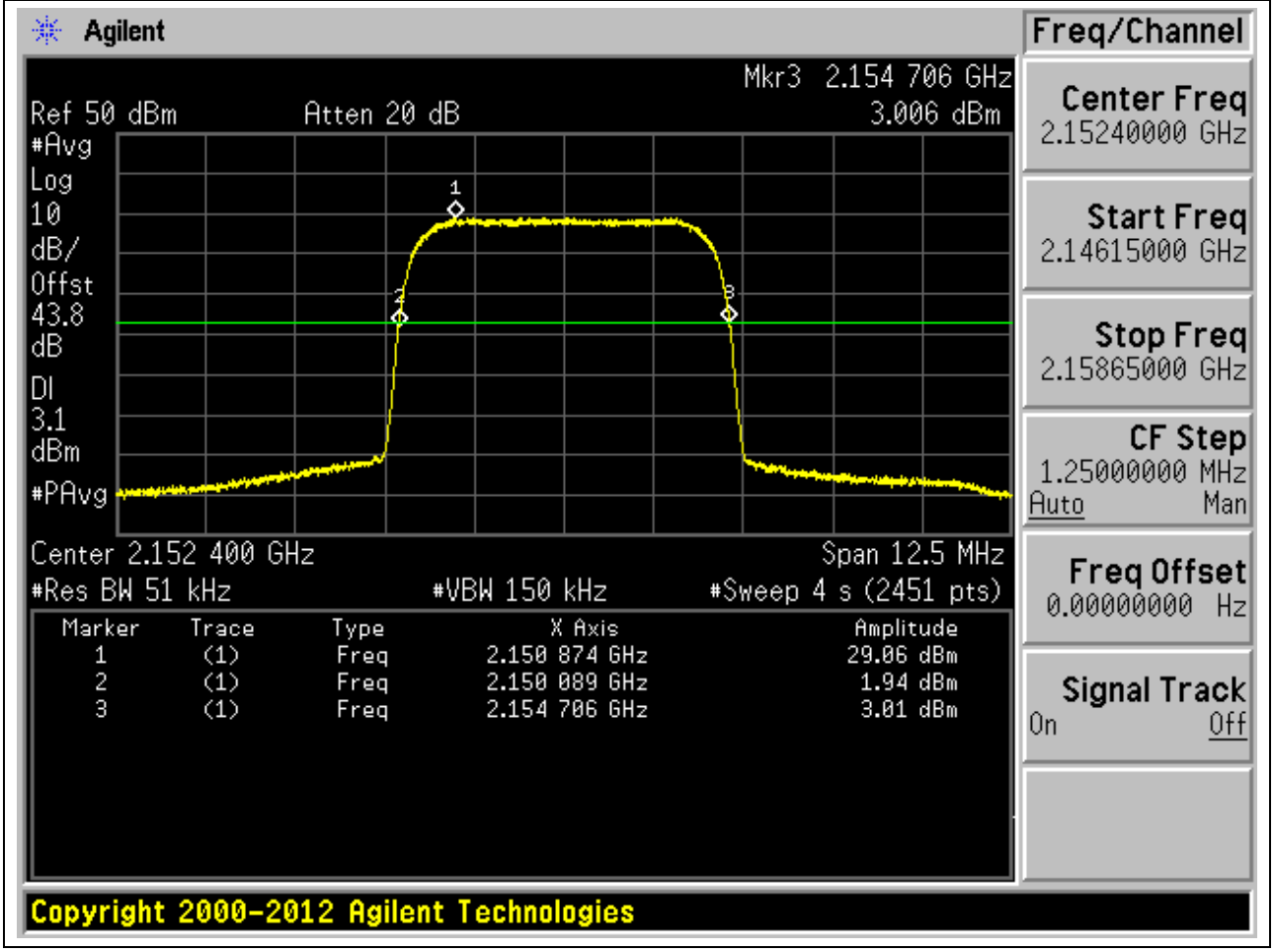
Center Frequency[MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict



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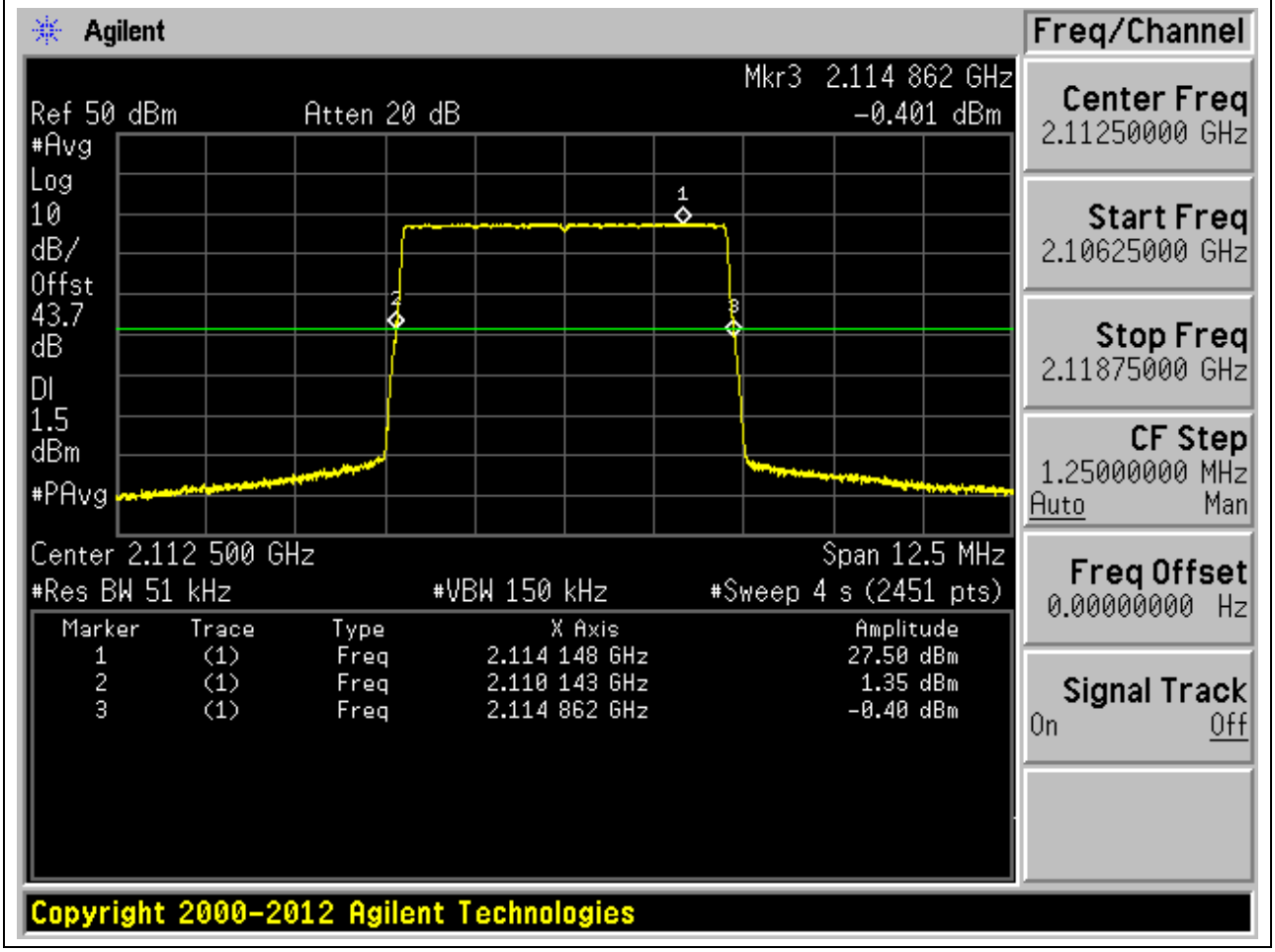
2.2.4 1L_5M_TM1.1_B

Center Frequency[MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2112.5	12.5	26	0.051	RMS	4.71936	5	2110.142848	2110	2114.862208	2180	Pass



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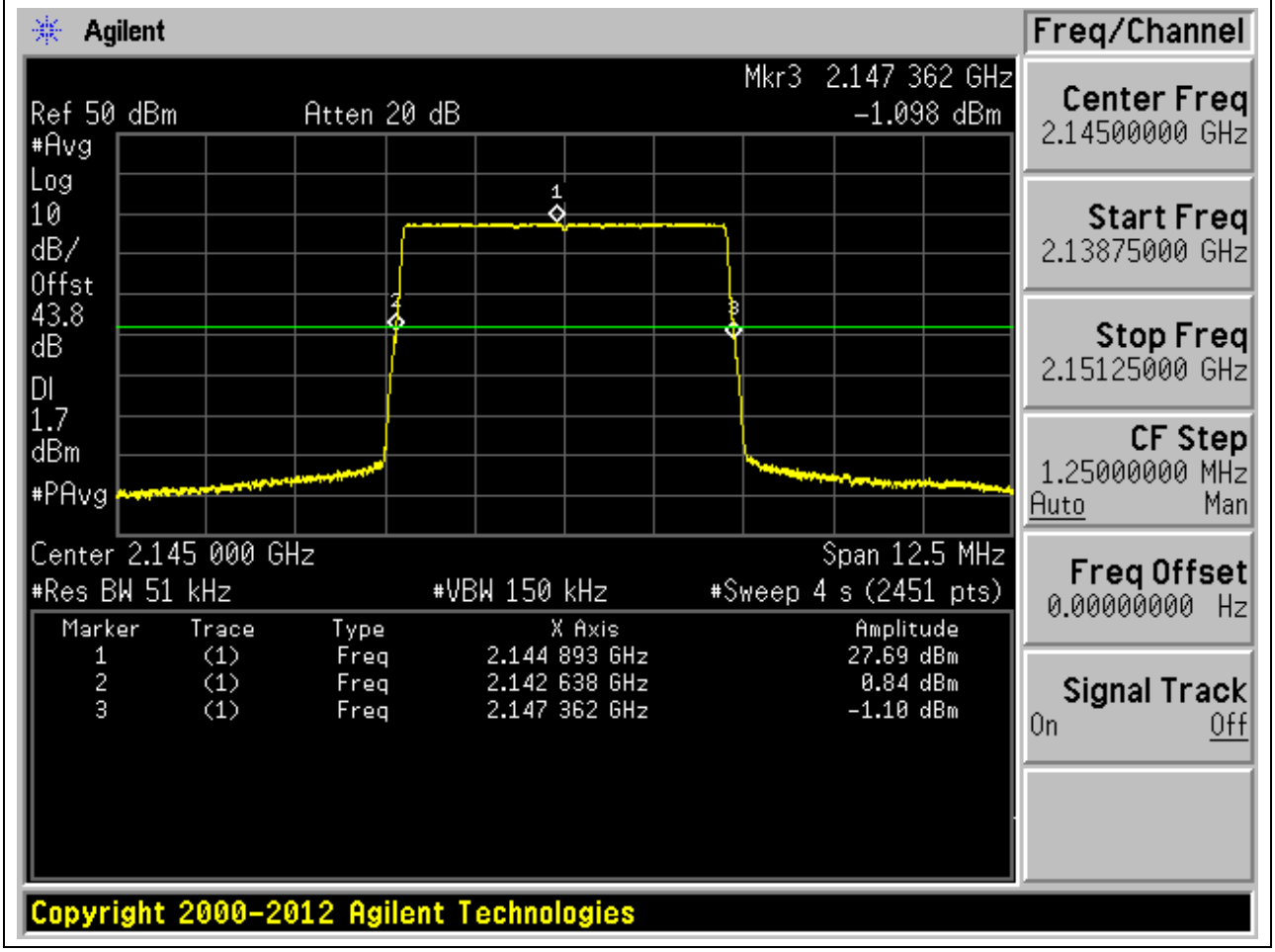
2.2.5 1L_5M_TM1.1_M

Center Frequency[MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2145	12.5	26	0.051	RMS	4.724608	5	2142.637696	2110	2147.362304	2180	Pass



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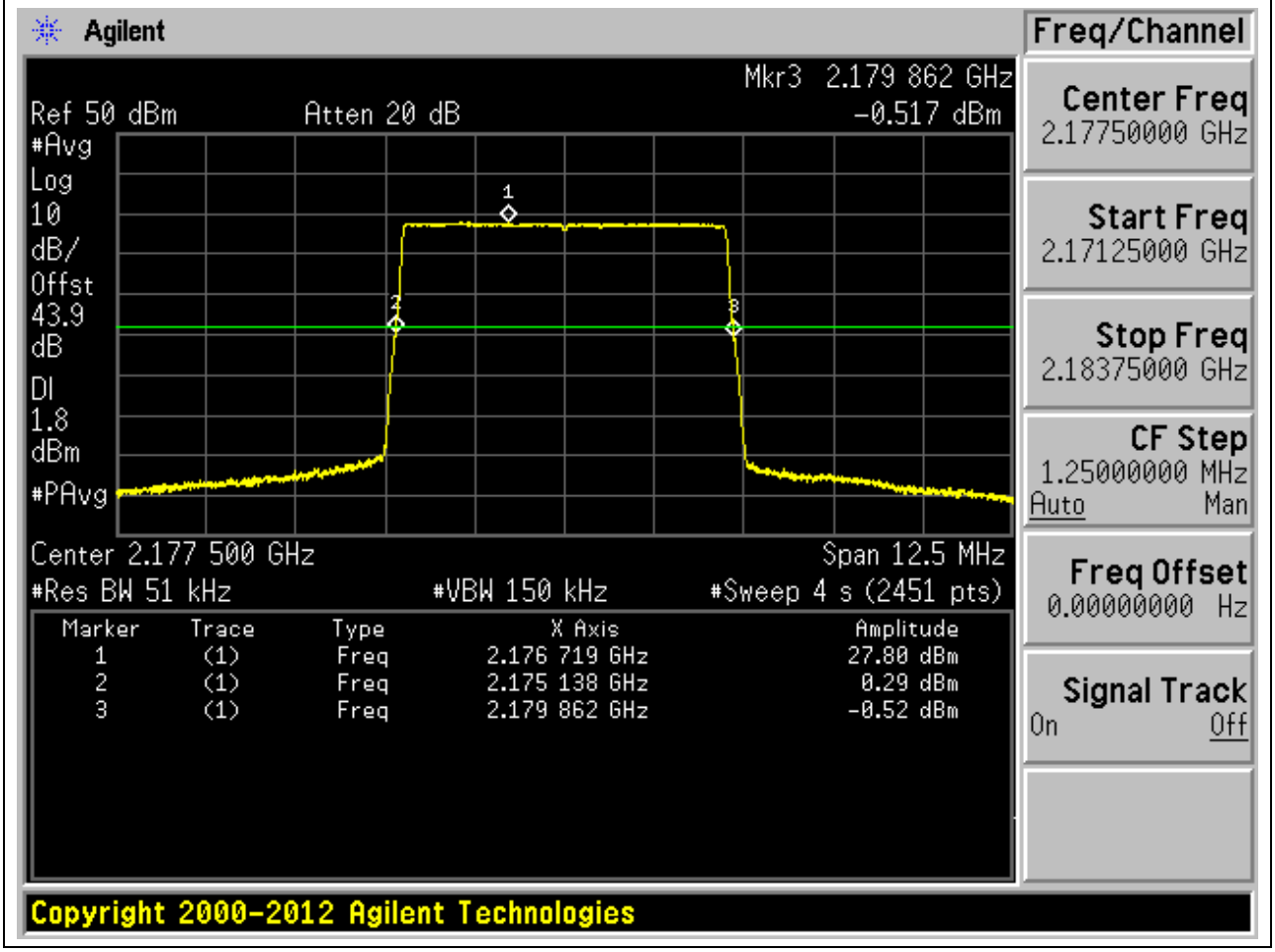
2.2.6 1L_5M_TM1.1_T

Center Frequency[MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2177.5	12.5	26	0.051	RMS	4.72448	5	2175.137792	2110	2179.862272	2180	Pass



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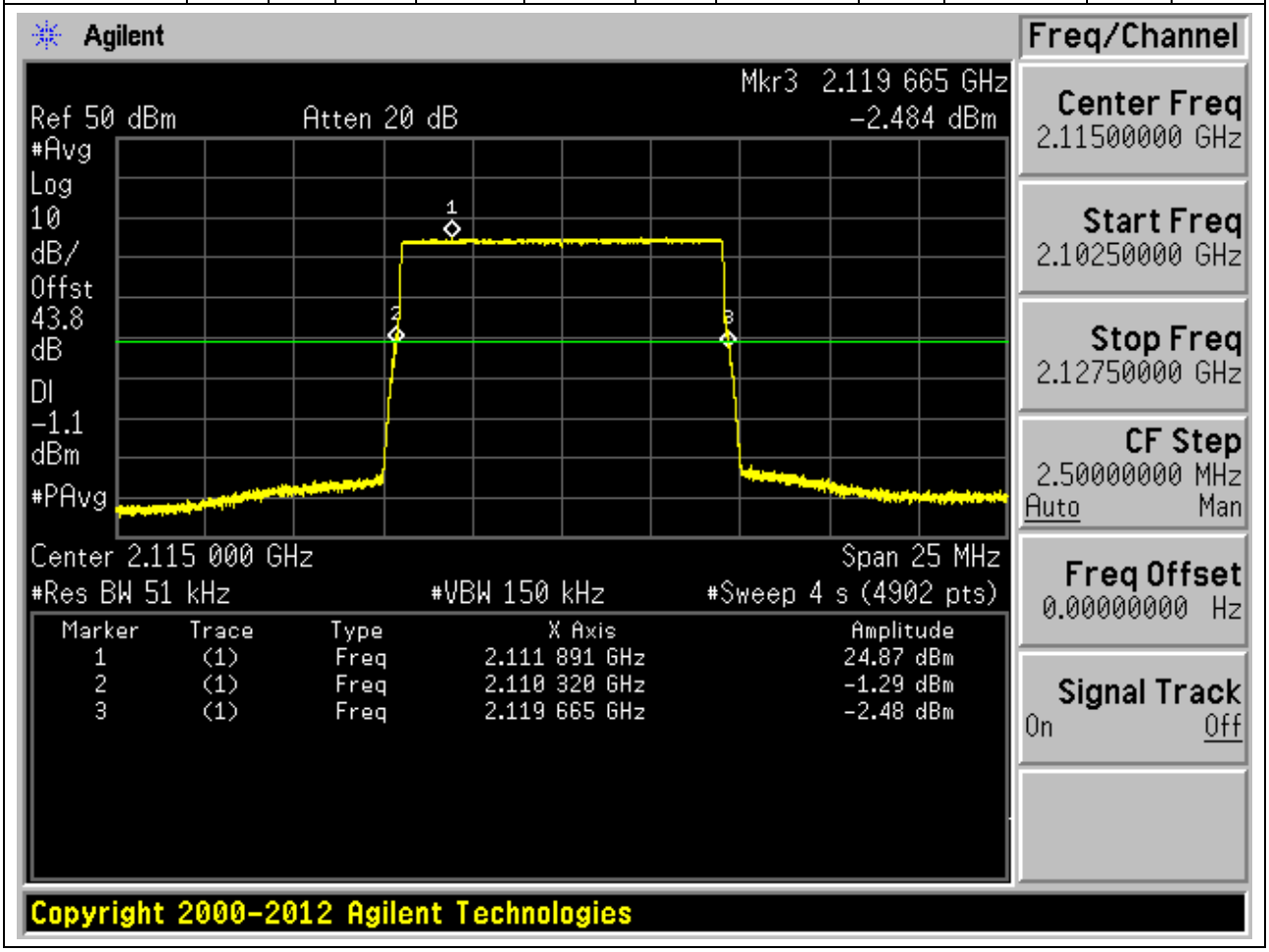
2.2.7 1L_10M_TM1.1_B

Center Frequency[MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2115	25	26	0.051	RMS	9.345024	10	2110.319872	2110	2119.664896	2180	Pass



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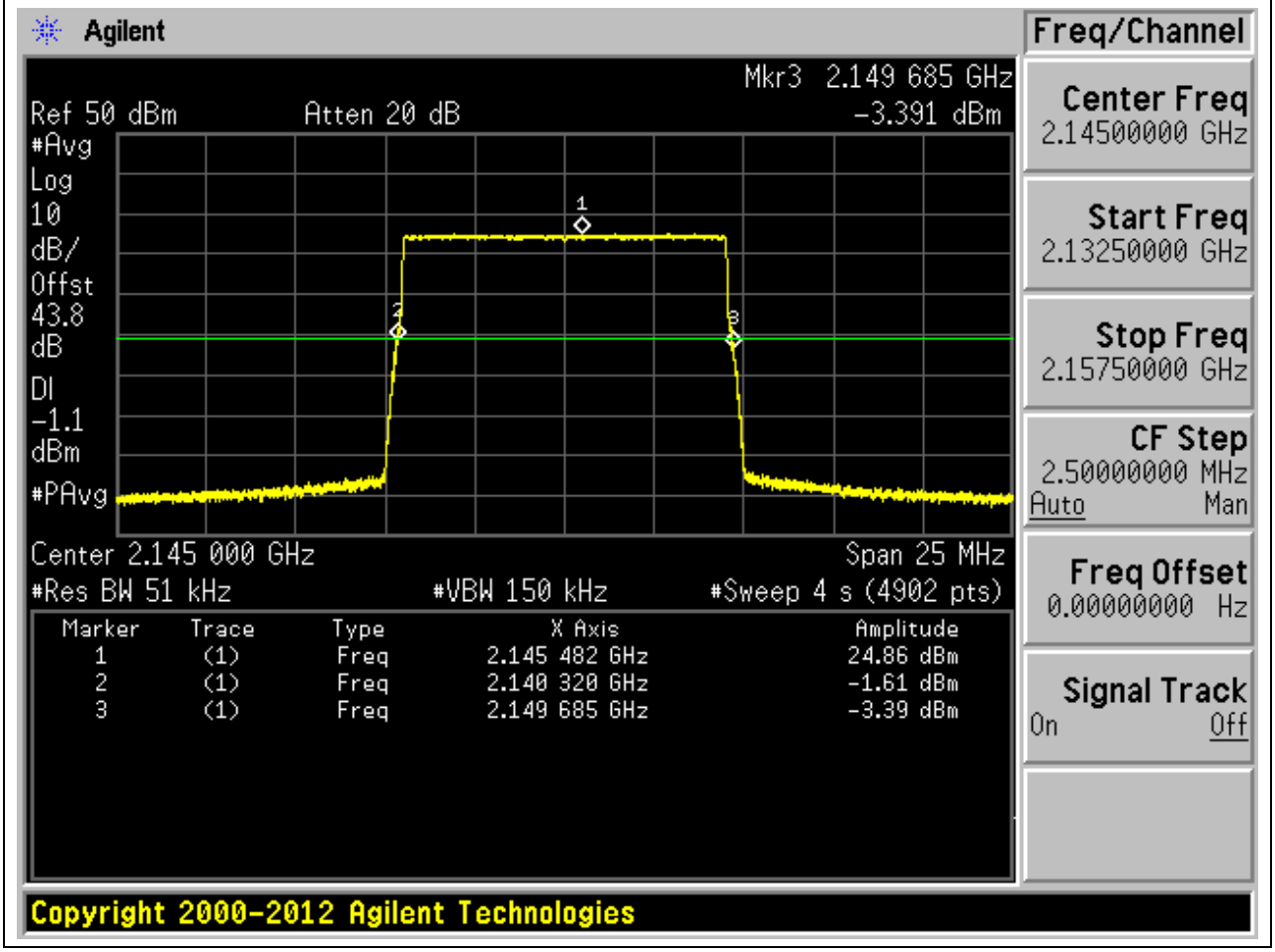
2.2.8 1L_10M_TM1.1_M

Center Frequency[MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2145	25	26	0.051	RMS	9.365376	10	2140.319872	2110	2149.685248	2180	Pass



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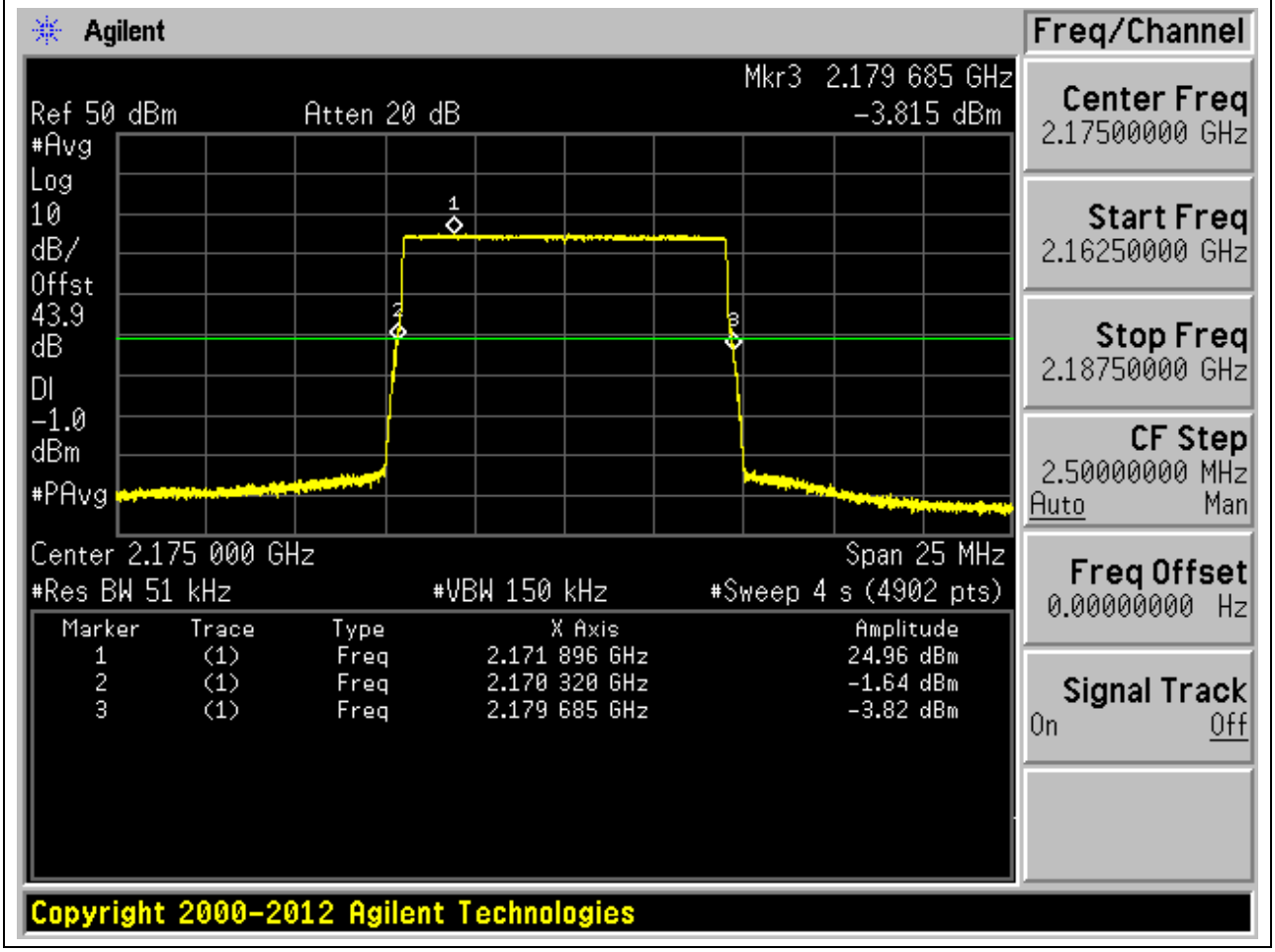
2.2.9 1L_10M_TM1.1_T

Center Frequency[MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2175	25	26	0.051	RMS	9.365504	10	2170.319872	2110	2179.685376	2180	Pass



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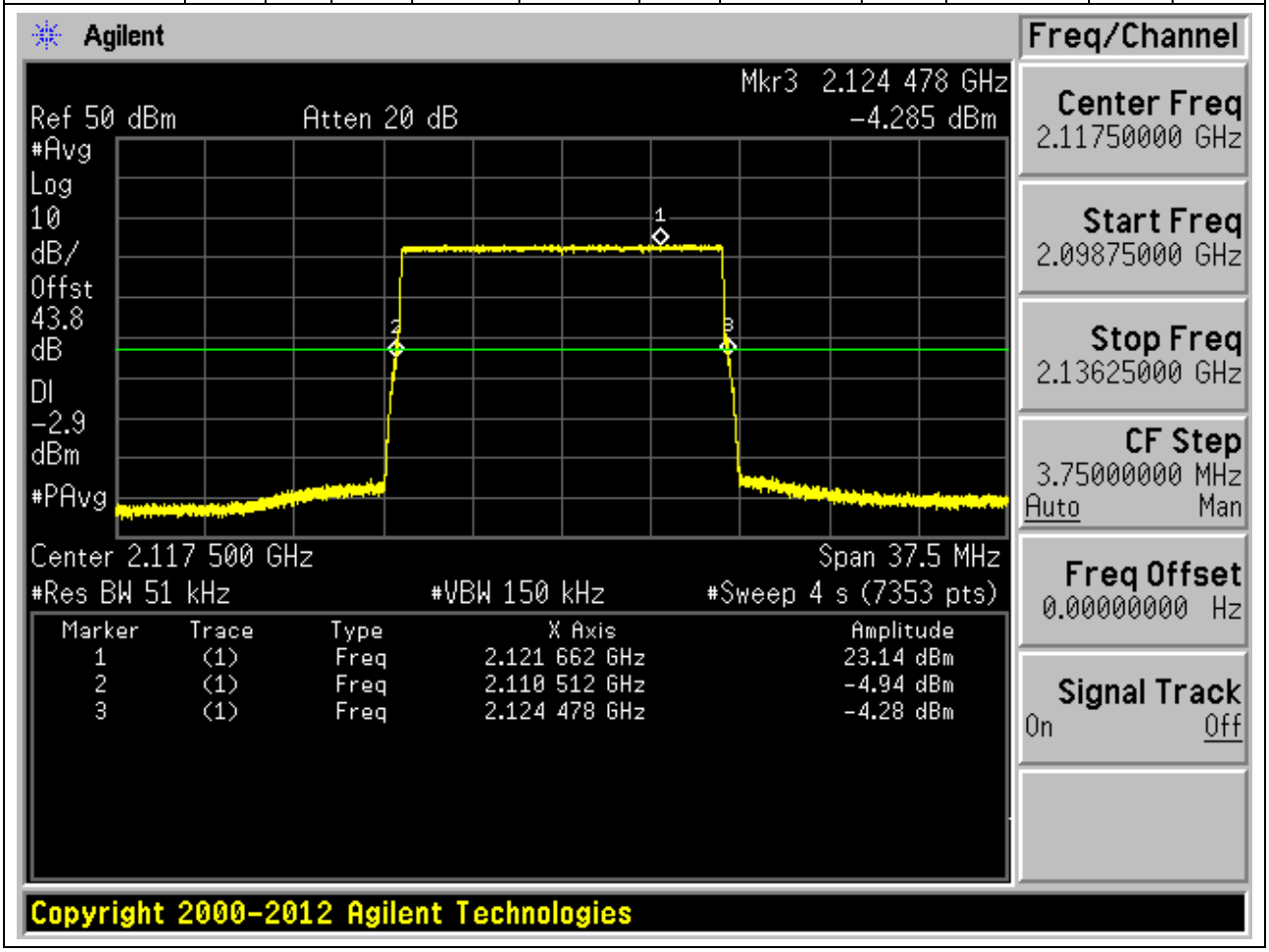
2.2.10 1L_15M_TM1.1_B

Center Frequency[MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2117.5	37.5	26	0.051	RMS	13.965568	15	2110.512128	2110	2124.477696	2180	Pass



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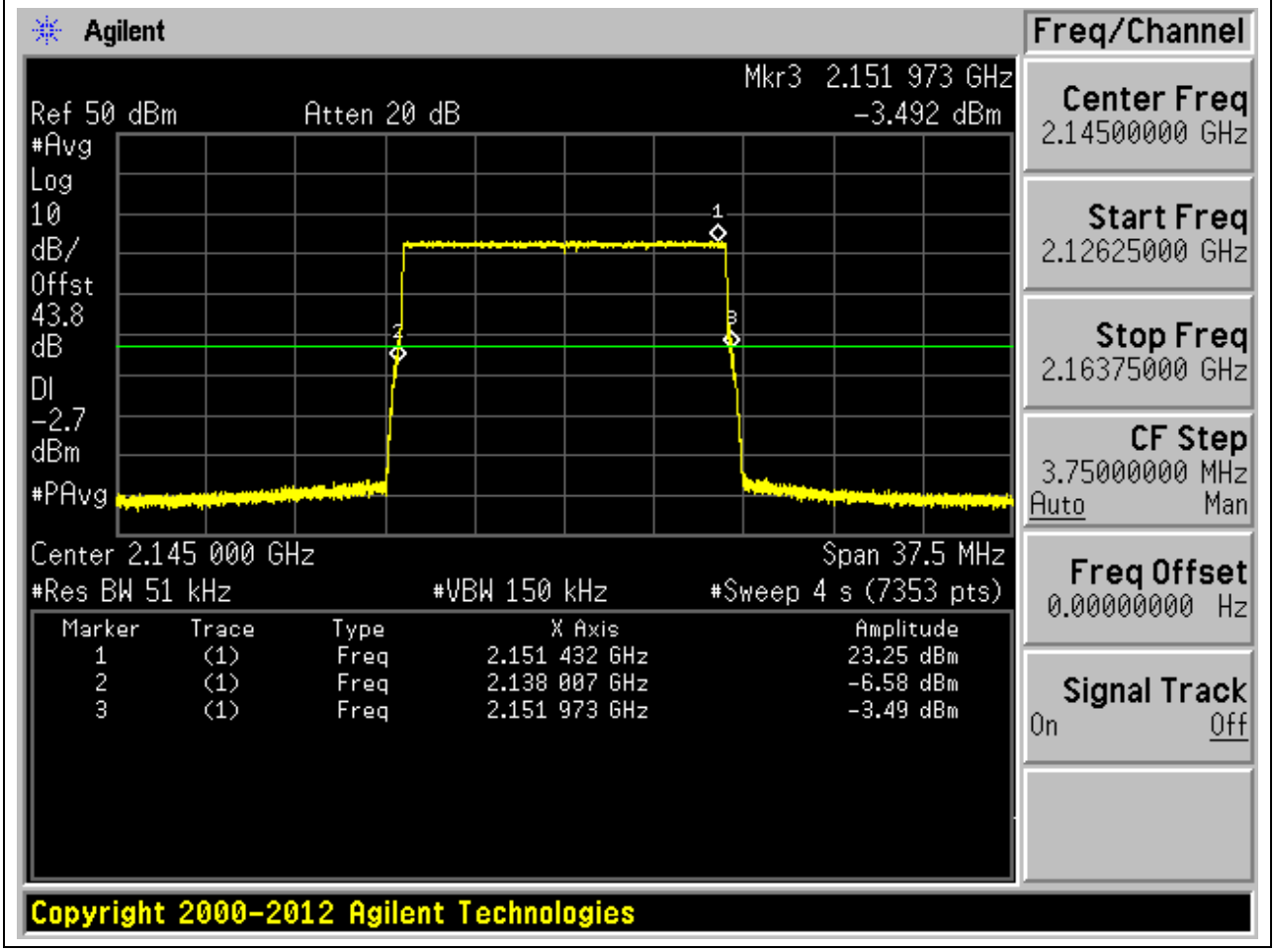
2.2.11 1L_15M_TM1.1_M

Center Frequency[MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2145	37.5	26	0.051	RMS	13.965568	15	2138.00704	2110	2151.972608	2180	Pass



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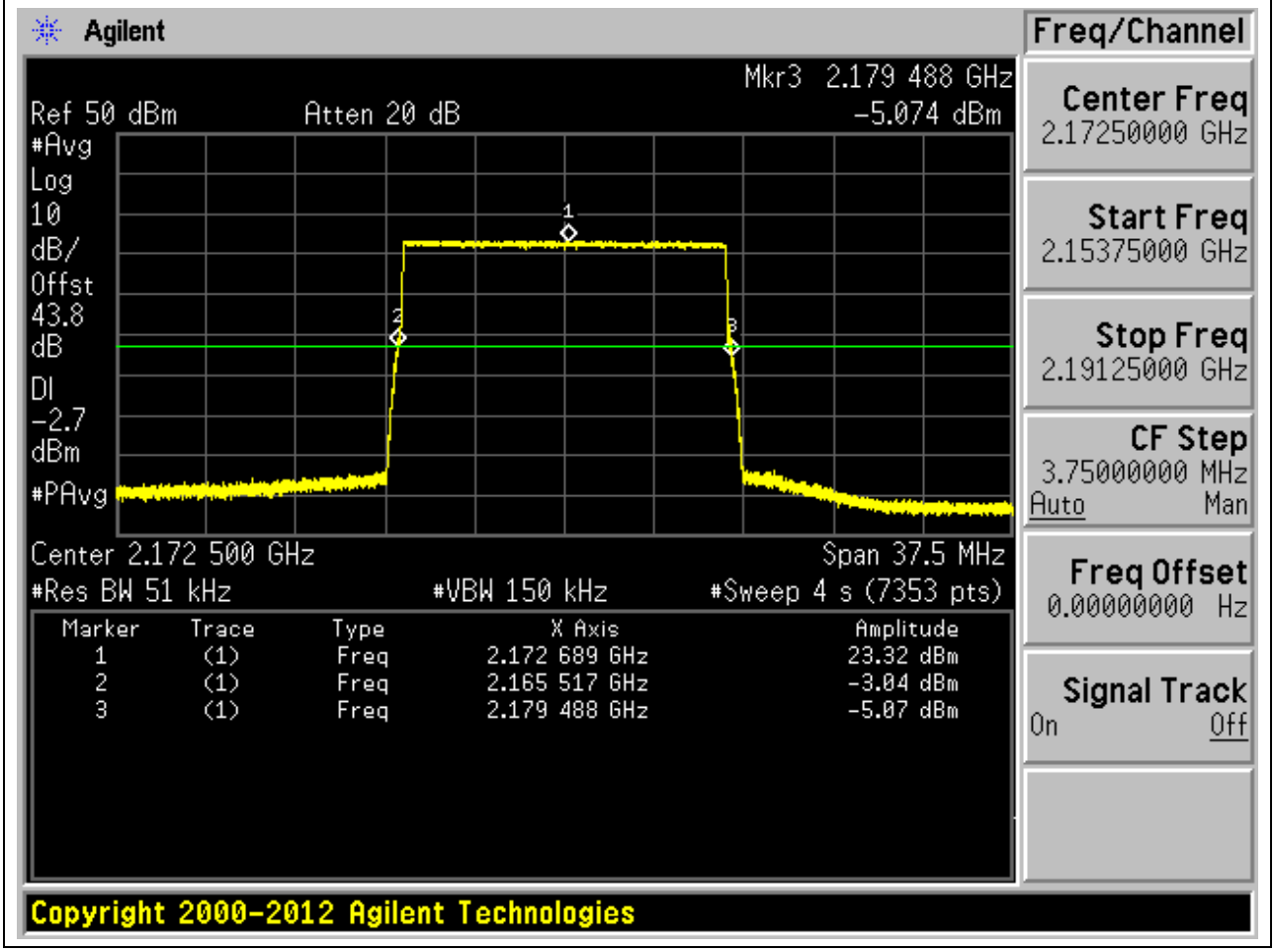
2.2.12 1L_15M_TM1.1_T

Center Frequency[MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2172.5	37.5	26	0.051	RMS	13.970688	15	2165.517312	2110	2179.488	2180	Pass



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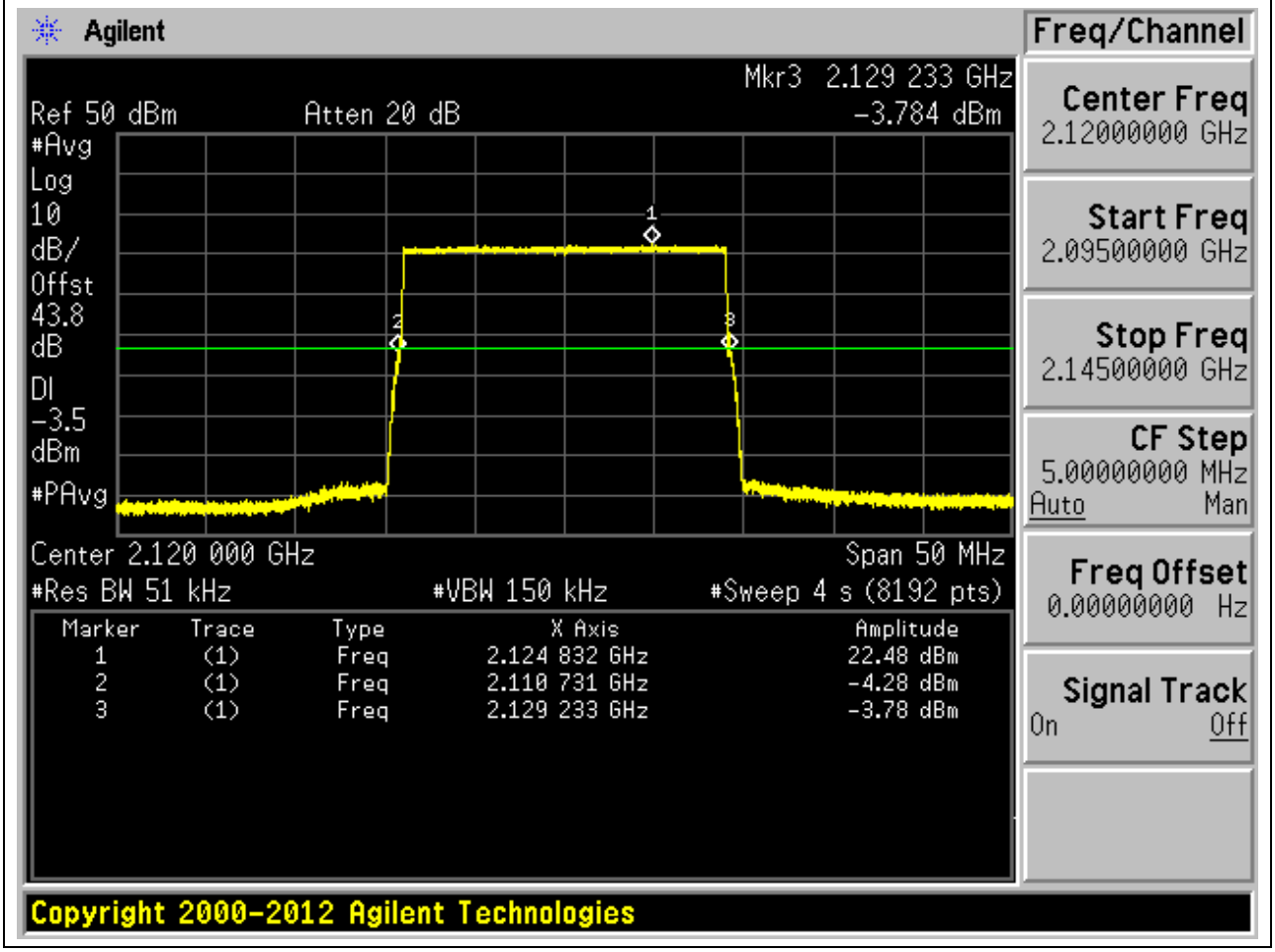
2.2.13 1L_20M_TM1.1_B

Center Frequency[MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2120	50	26	0.051	RMS	18.502016	20	2110.730624	2110	2129.23264	2180	Pass



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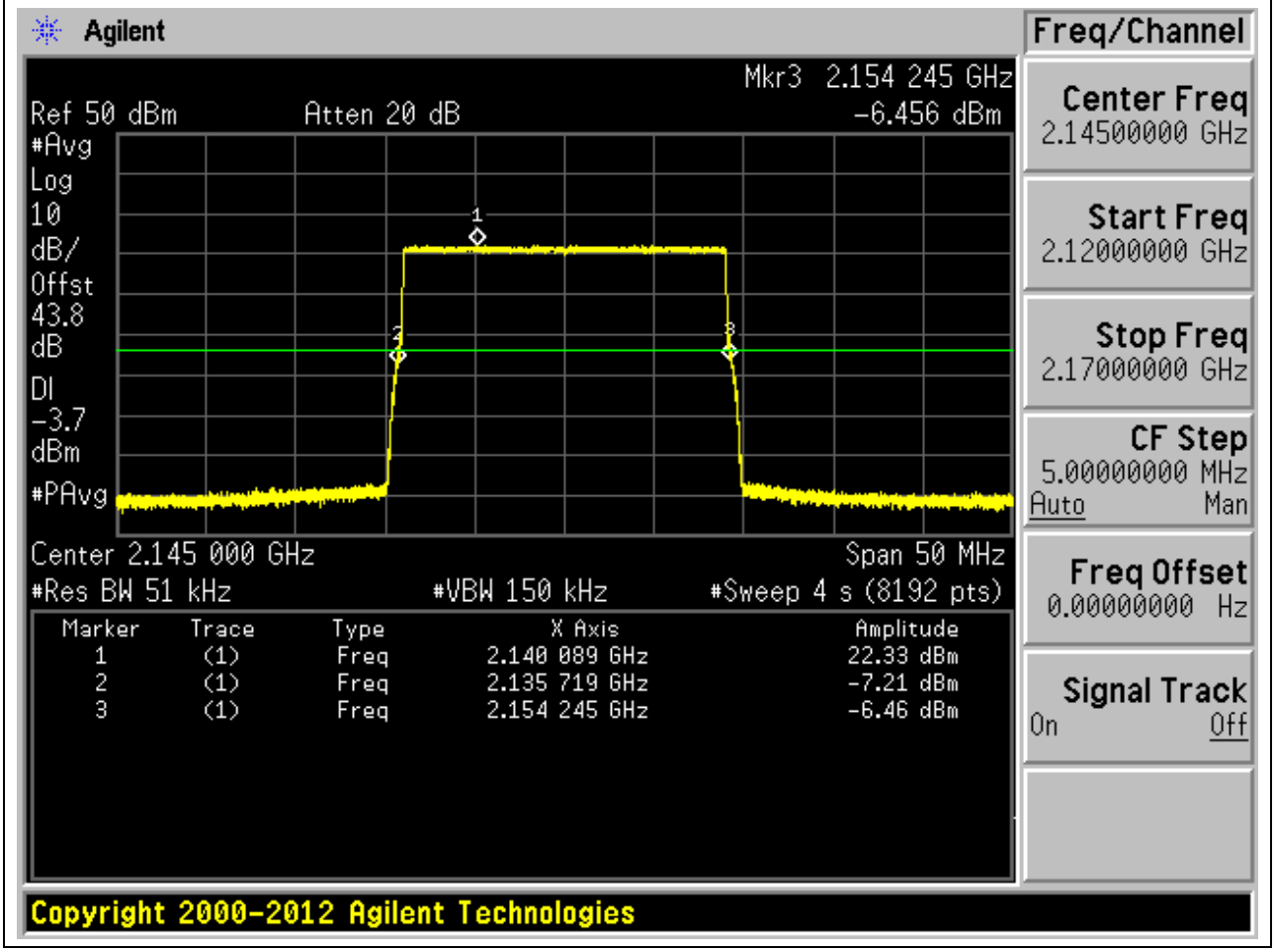
2.2.14 1L_20M_TM1.1_M

Center Frequency[MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2145	50	26	0.051	RMS	18.526336	20	2135.718528	2110	2154.244864	2180	Pass



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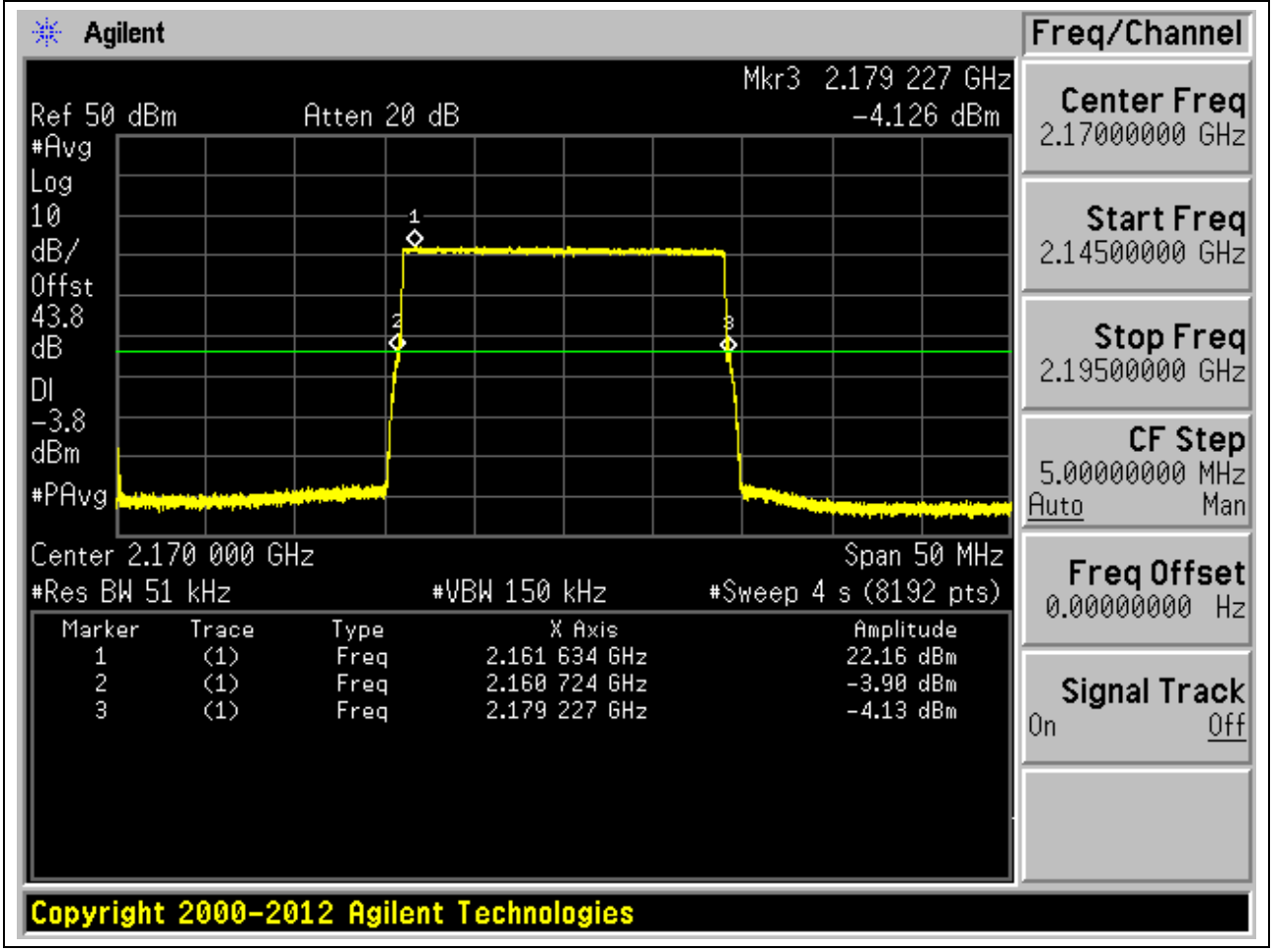
2.2.15 1L_20M_TM1.1_T

Center Frequency[MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2170	50	26	0.051	RMS	18.502144	20	2160.72448	2110	2179.226624	2180	Pass



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Appendix C: Band Edges Compliance / Emission Mask

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1 Result Table

NOTE: If applicable, the offset of measurement filter -3dB point may be considered when identifying the maximum emission for e.g. the CDMA, WCDMA, WiMAX, LTE systems.

EUT Conf.	Maximum Emission [dBm]	Verdict
1U_TM1_B	<-13	Pass
1U_TM1_T	<-13	Pass
2U_TM1_M	<-13	Pass
1L_5M_TM1.1_B	<-13	Pass
1L_5M_TM1.1_T	<-13	Pass
1L_10M_TM1.1_B	<-13	Pass
1L_10M_TM1.1_T	<-13	Pass
1L_15M_TM1.1_B	<-13	Pass
1L_15M_TM1.1_T	<-13	Pass
1L_20M_TM1.1_B	<-13	Pass
1L_20M_TM1.1_T	<-13	Pass
2L_5M_TM1.1_M	<-13	Pass
3L_5M_TM1.1_M	<-13	Pass
1U1L_M	<-13	Pass
1U2L_M	<-13	Pass

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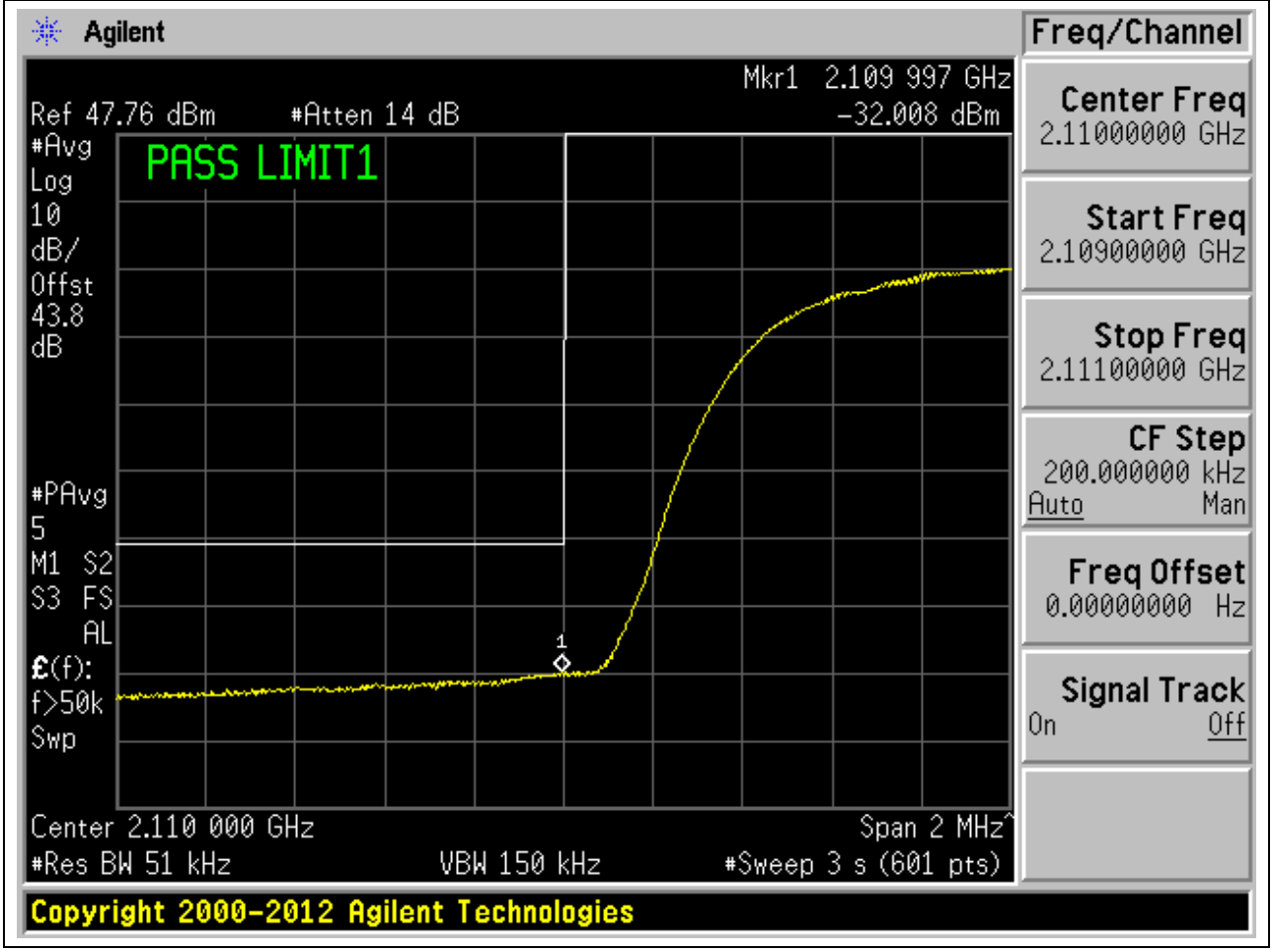
2 Test Plot

2.1 1U_TM1_B

Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2110	2	0.051	RMS	Pass	601



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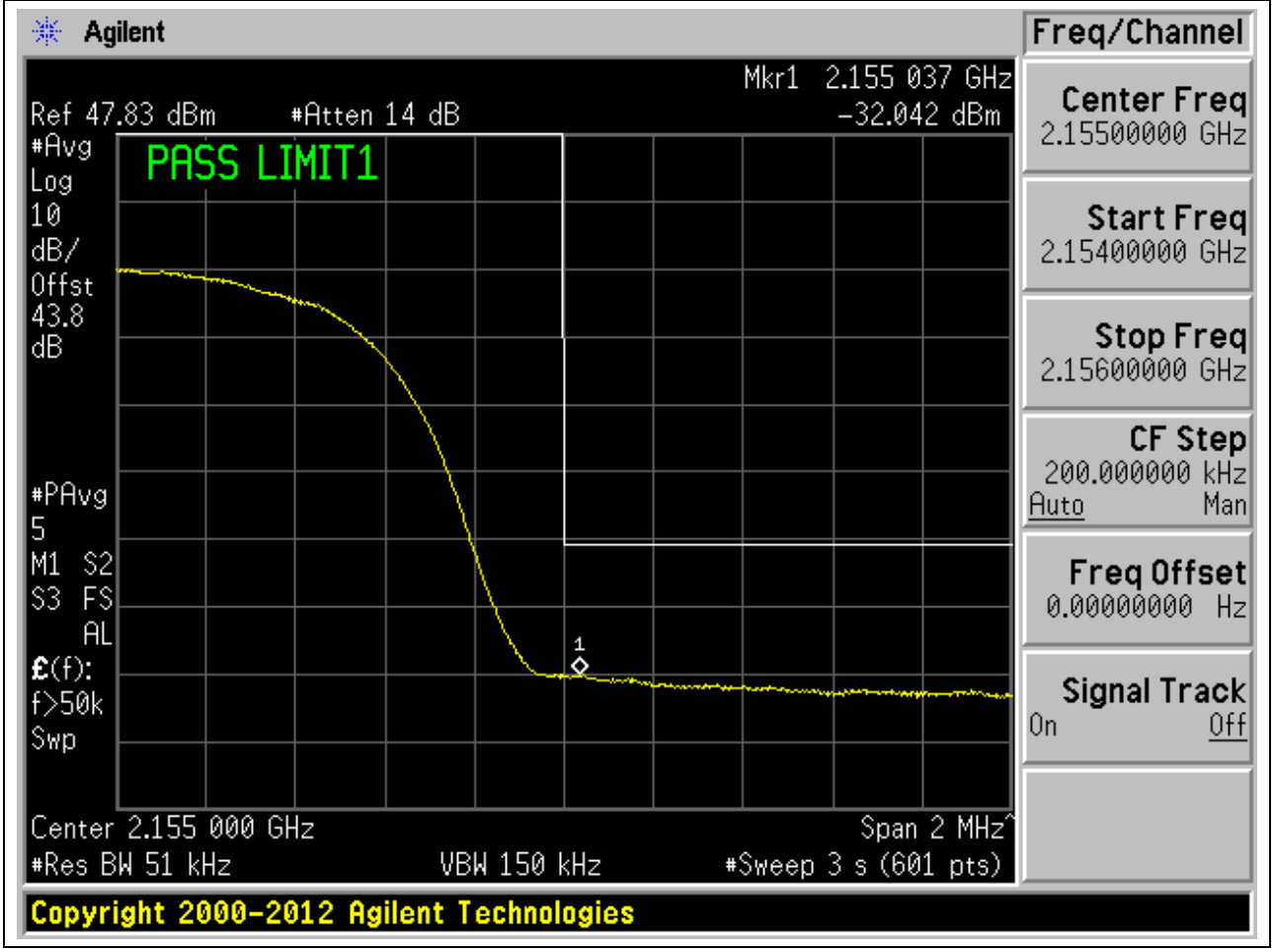
2.2 1U_TM1_T

Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2155	2	0.051	RMS	Pass	601



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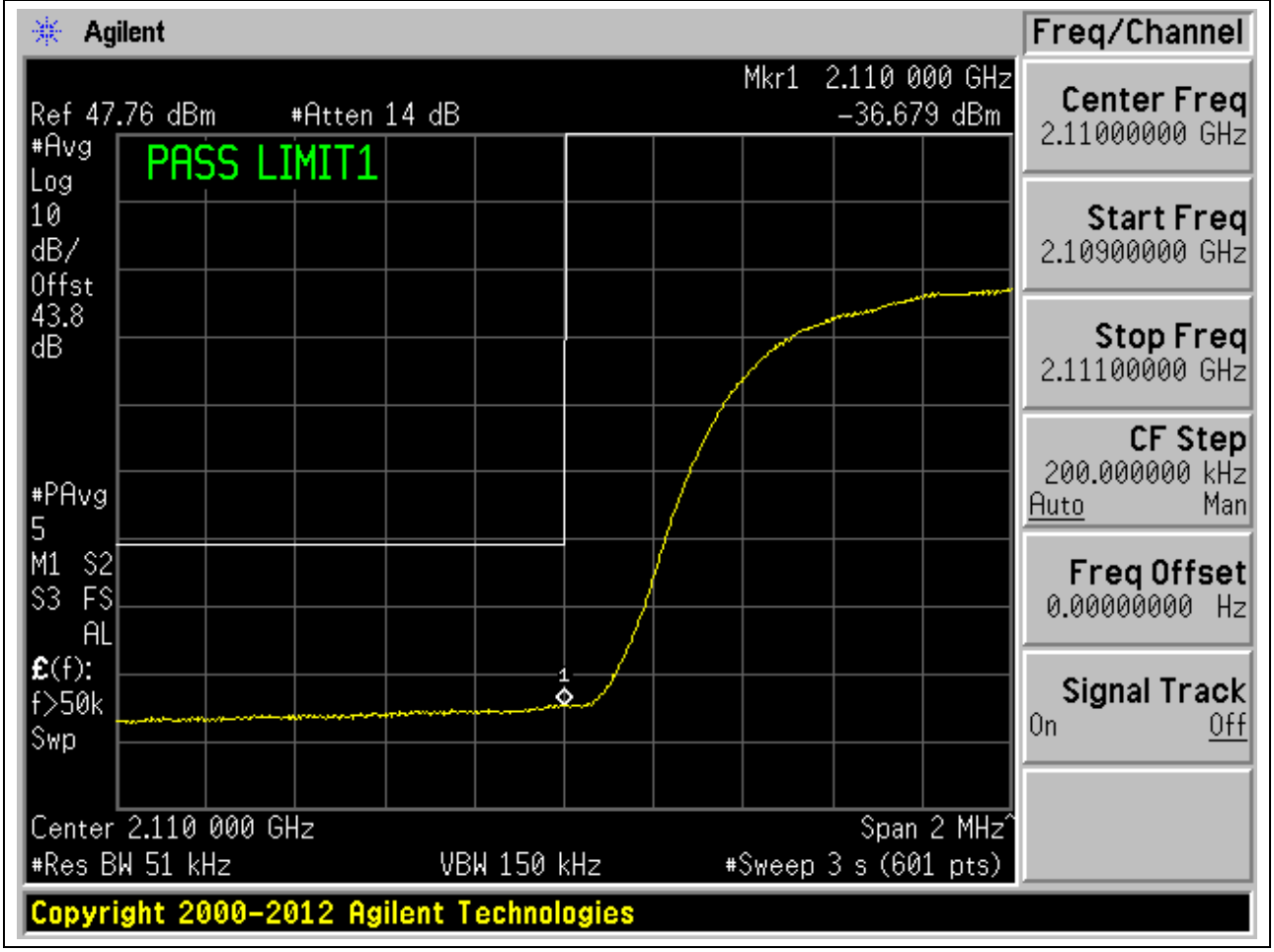
2.3 2U_TM1_M

Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2110	2	0.051	RMS	Pass	601



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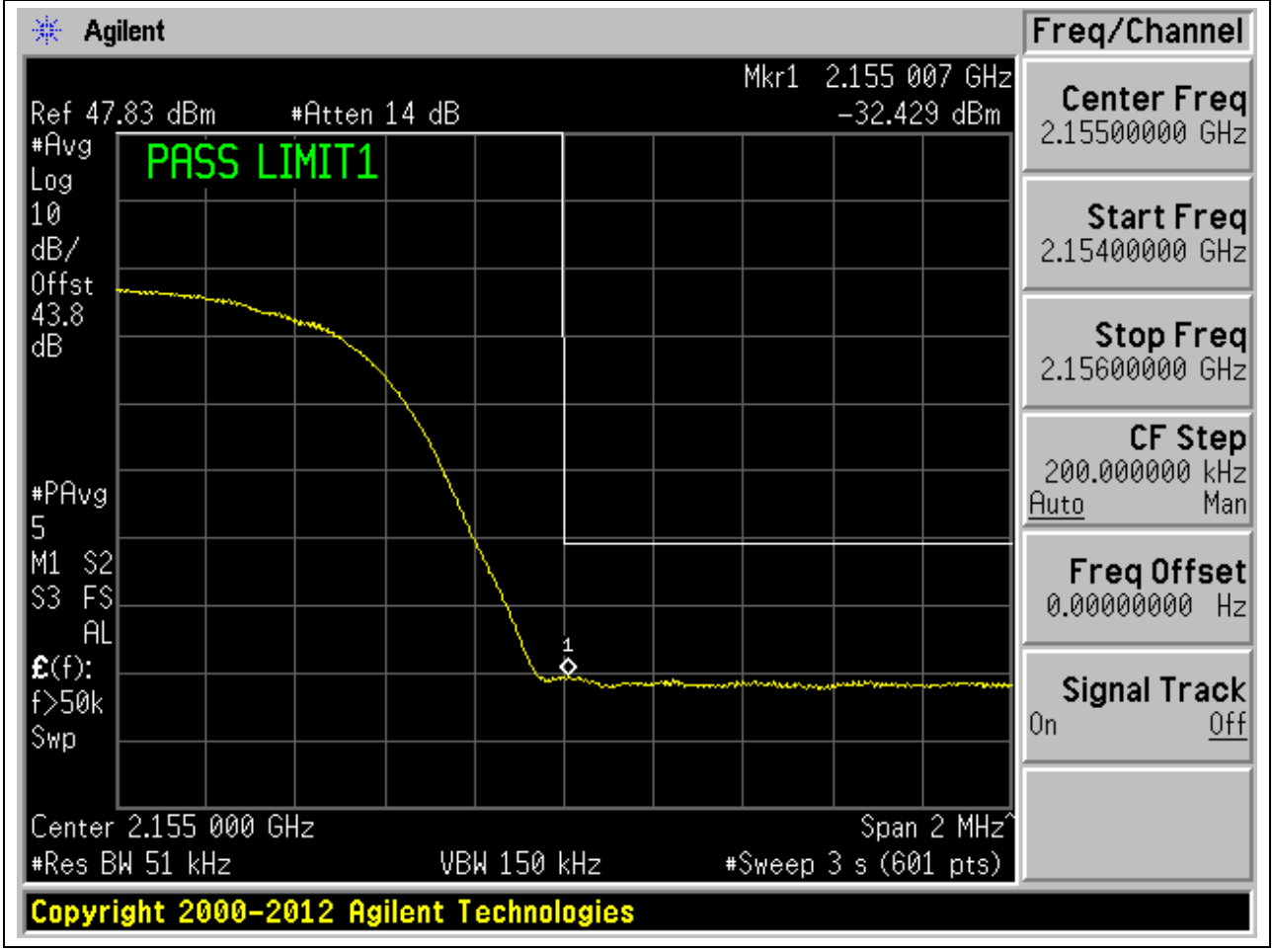
Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2155	2	0.051	RMS	Pass	601



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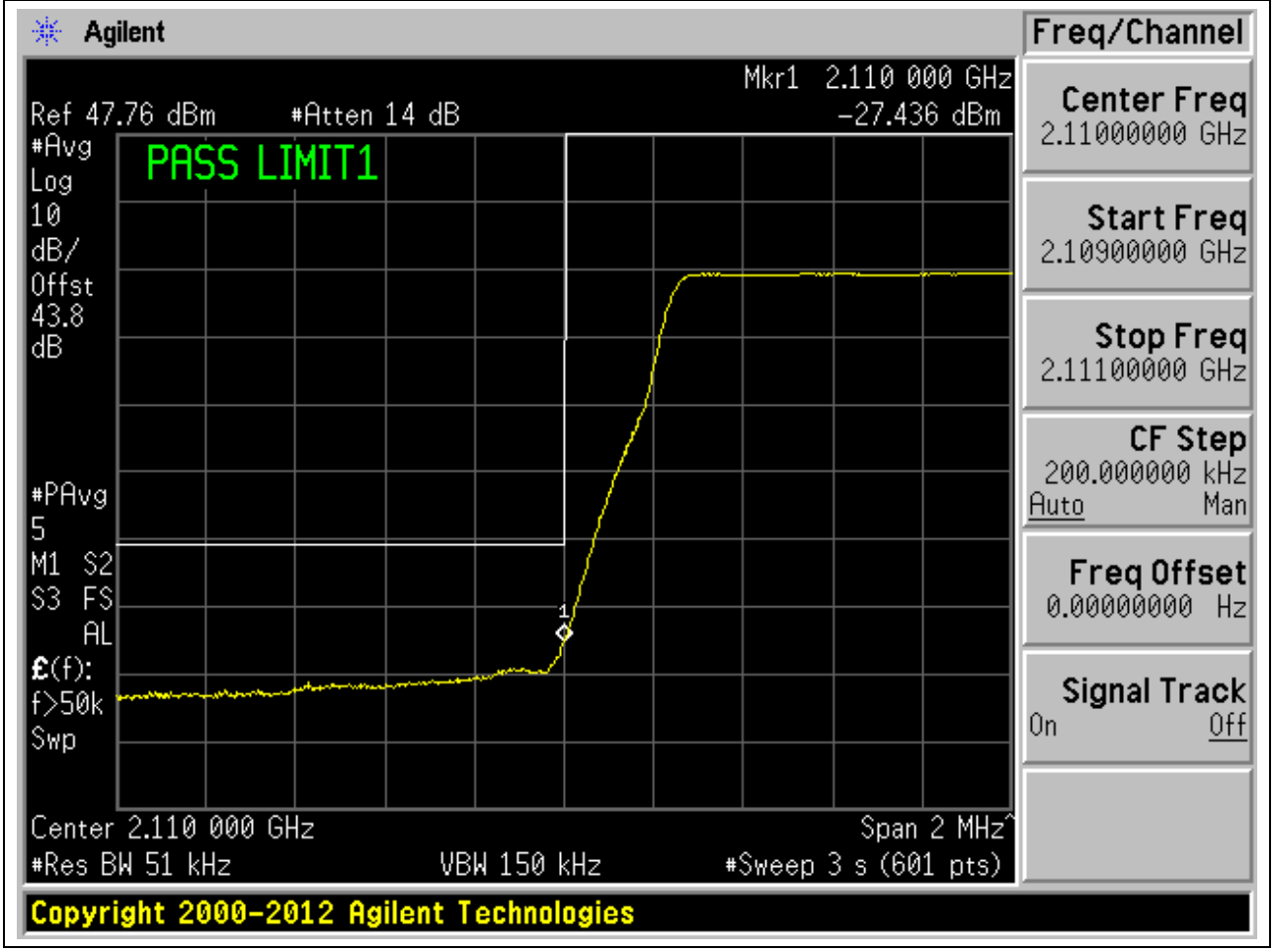
2.4 1L_5M_TM1.1_B

Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2110	2	0.051	RMS	Pass	601



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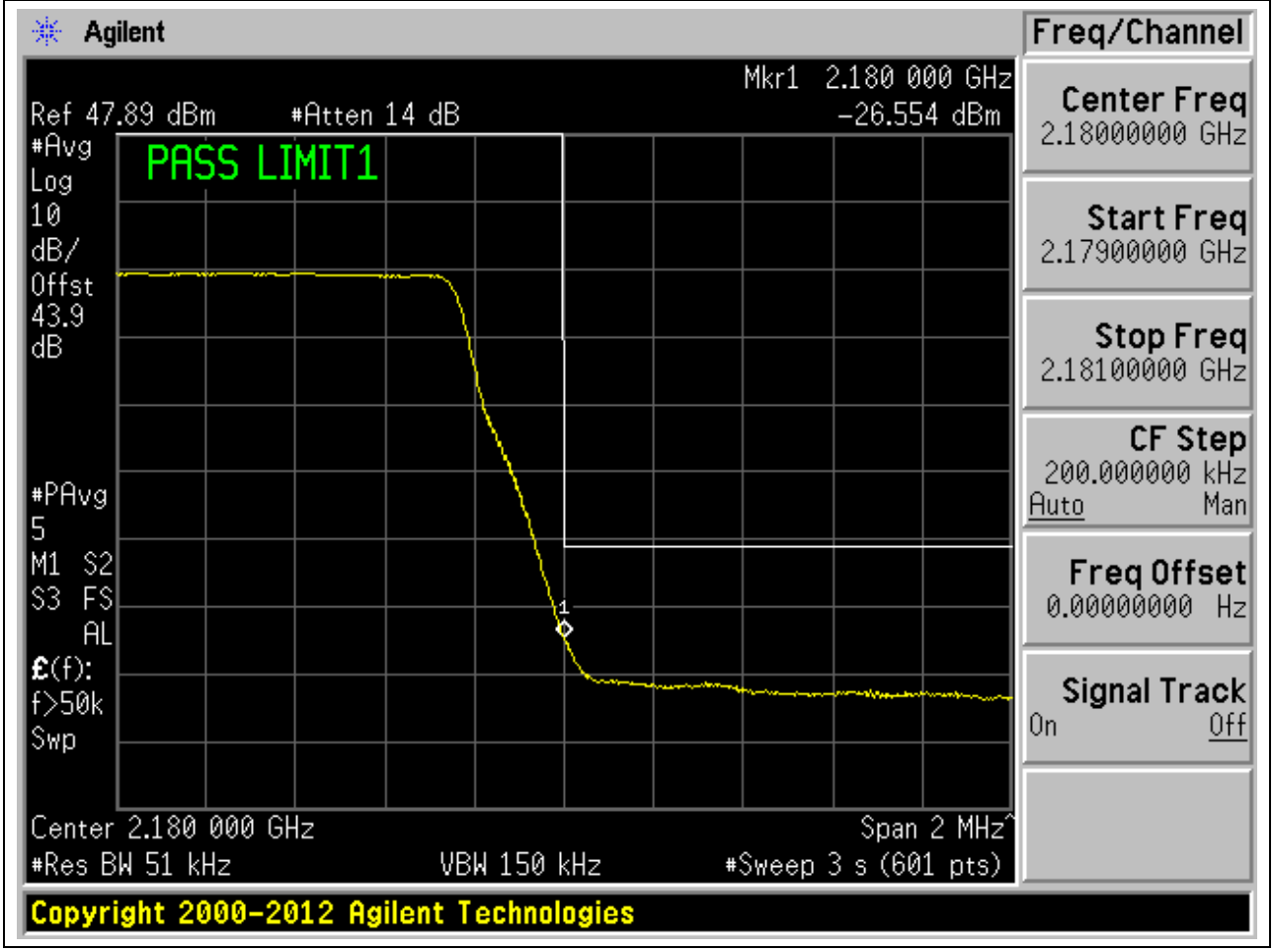
2.5 1L_5M_TM1.1_T

Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2180	2	0.051	RMS	Pass	601



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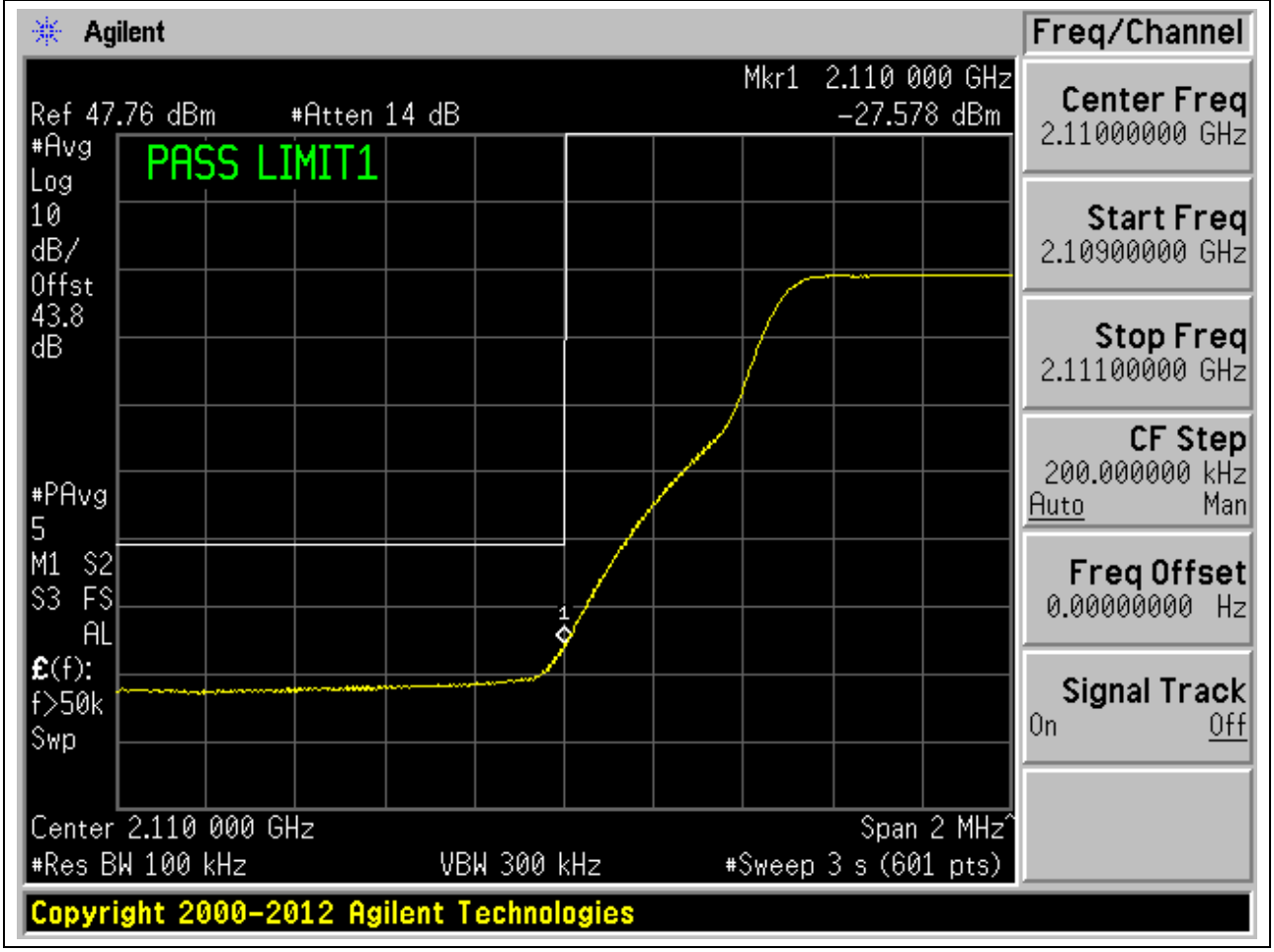
2.6 1L_10M_TM1.1_B

Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2110	2	0.1	RMS	Pass	601



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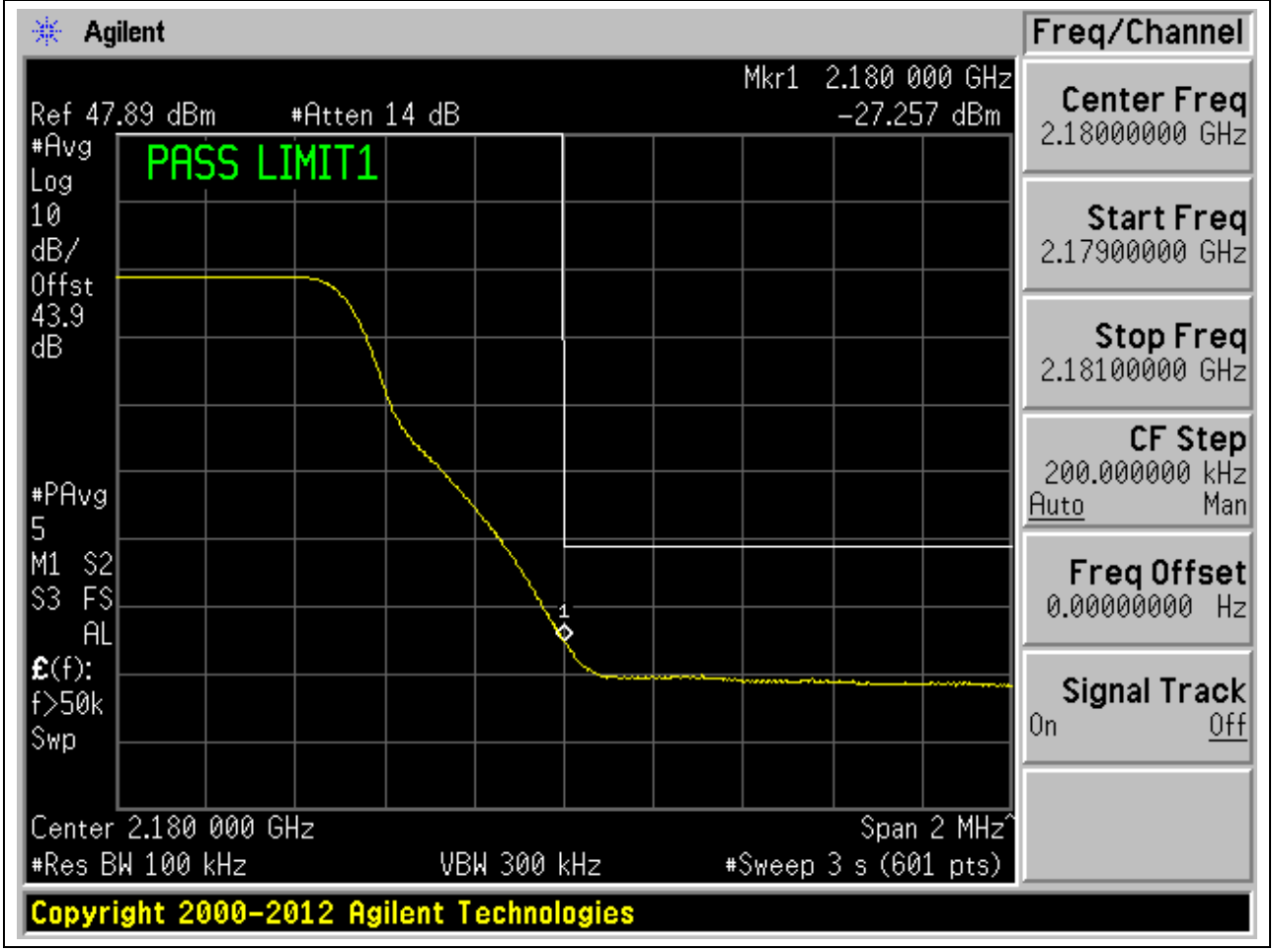
2.7 1L_10M_TM1.1_T

Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2180	2	0.1	RMS	Pass	601



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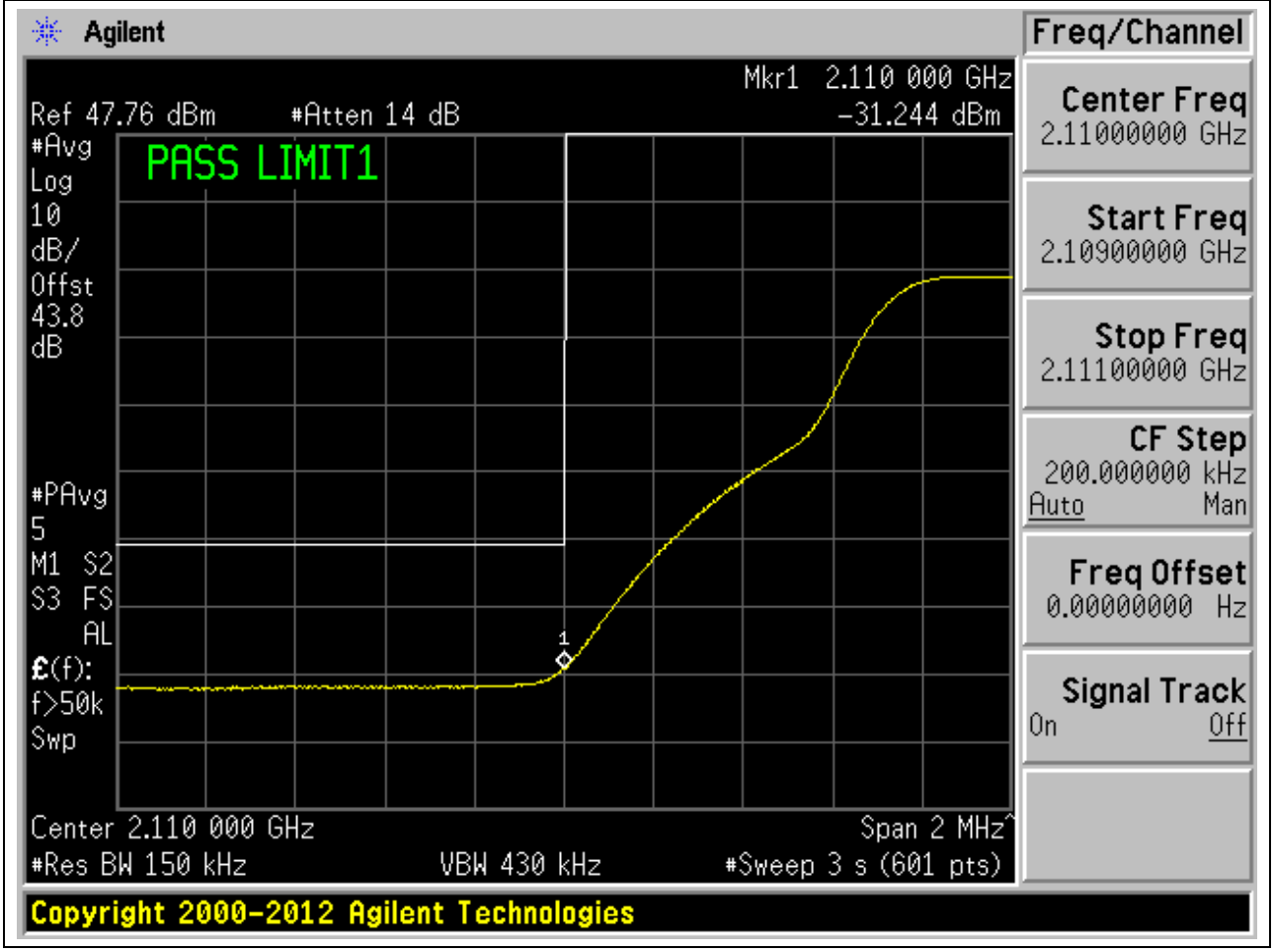
2.8 1L_15M_TM1.1_B

Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2110	2	0.15	RMS	Pass	601



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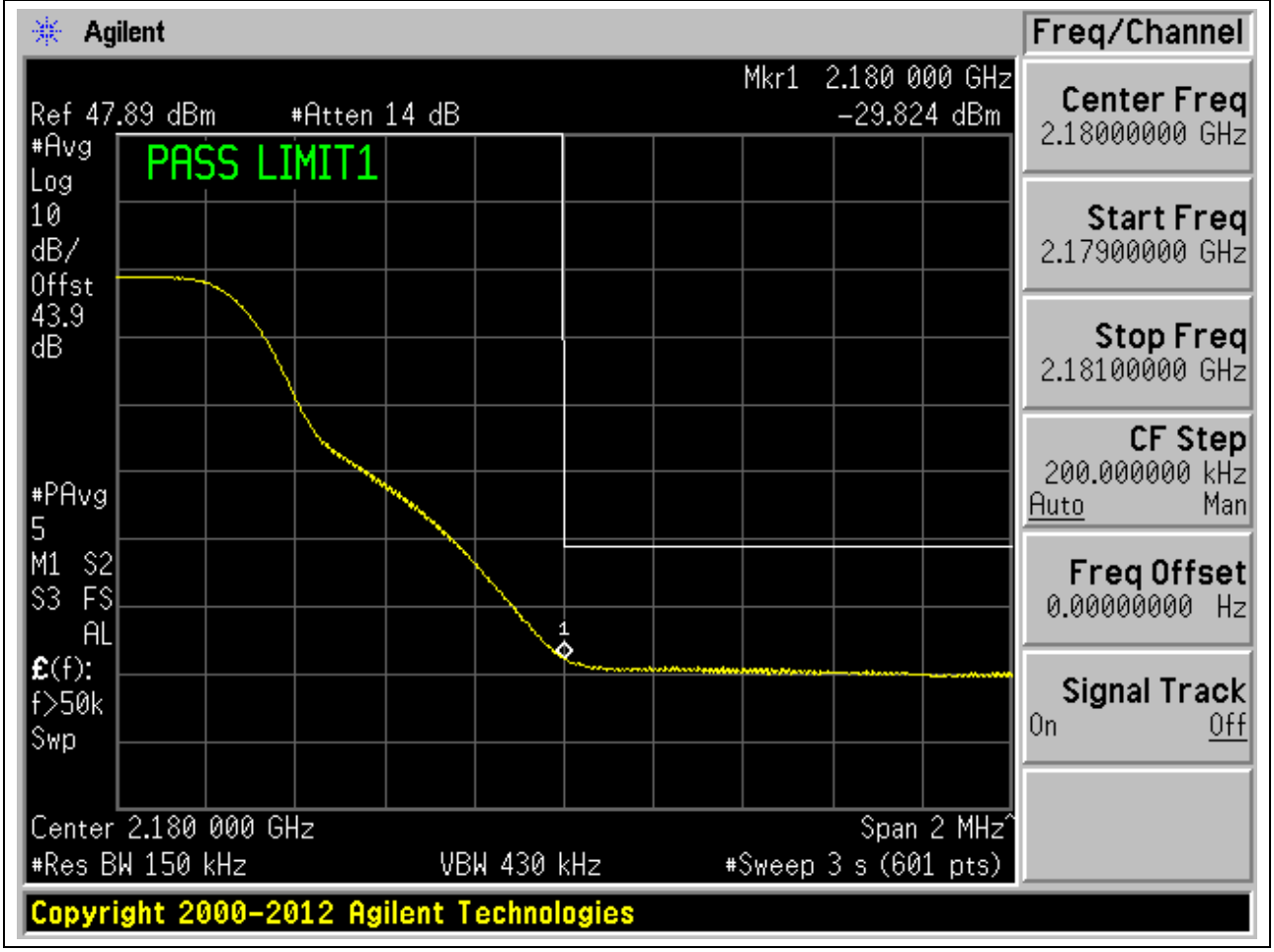
2.9 1L_15M_TM1.1_T

Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2180	2	0.15	RMS	Pass	601



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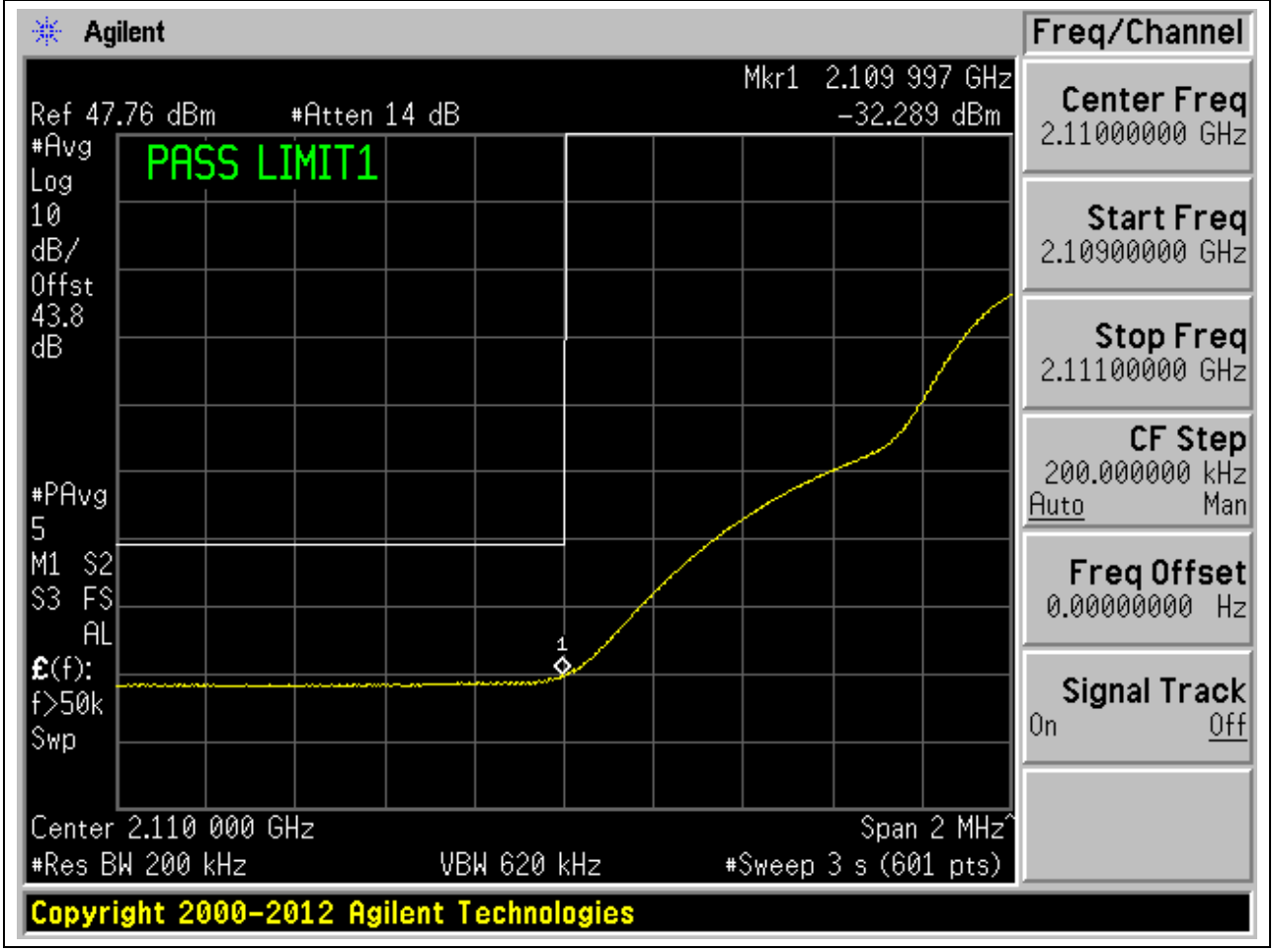
2.10 1L_20M_TM1.1_B

Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2110	2	0.2	RMS	Pass	601



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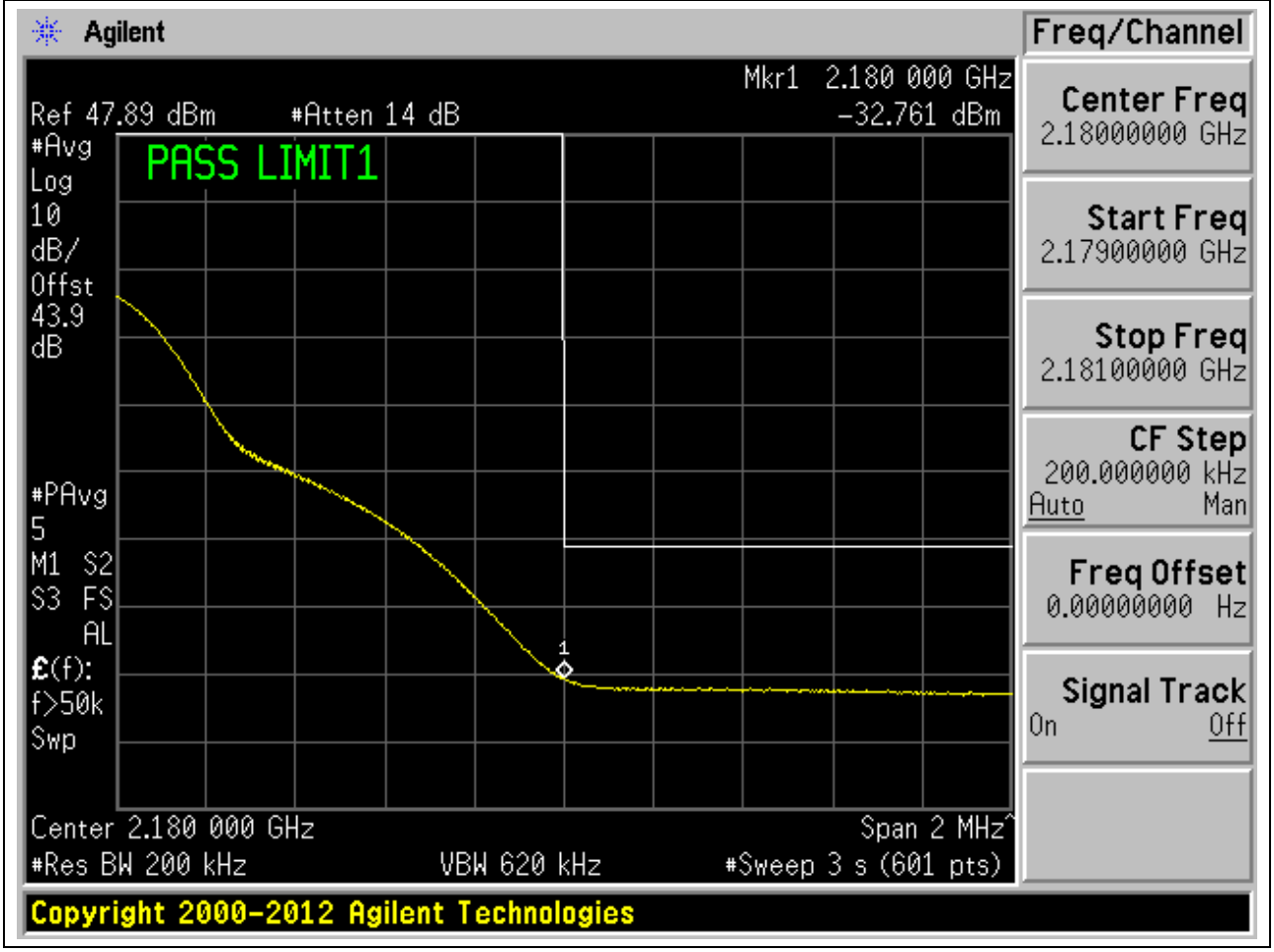
2.11 1L_20M_TM1.1_T

Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2180	2	0.2	RMS	Pass	601



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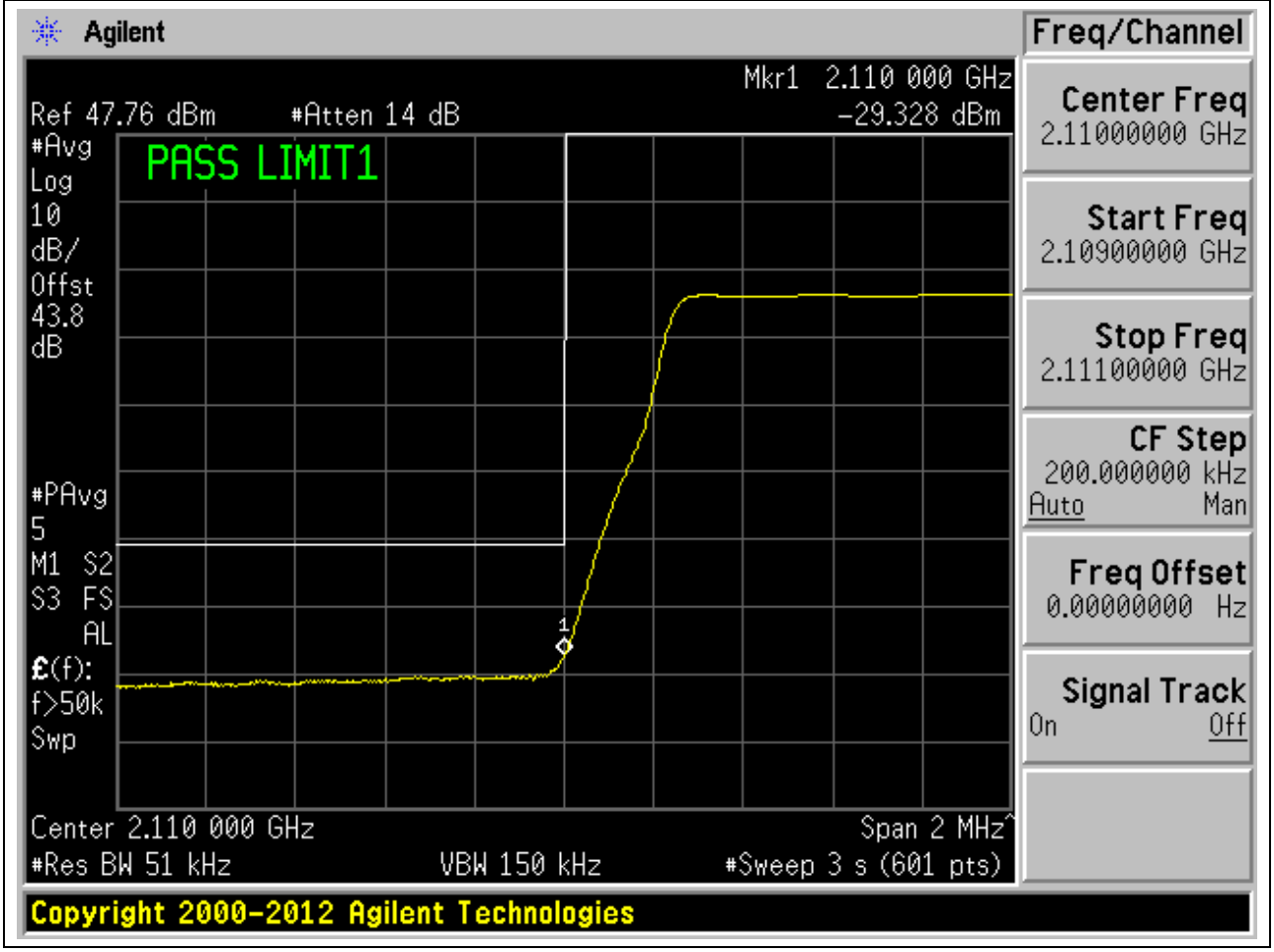
2.12 2L_5M_TM1.1_M

Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2110	2	0.051	RMS	Pass	601



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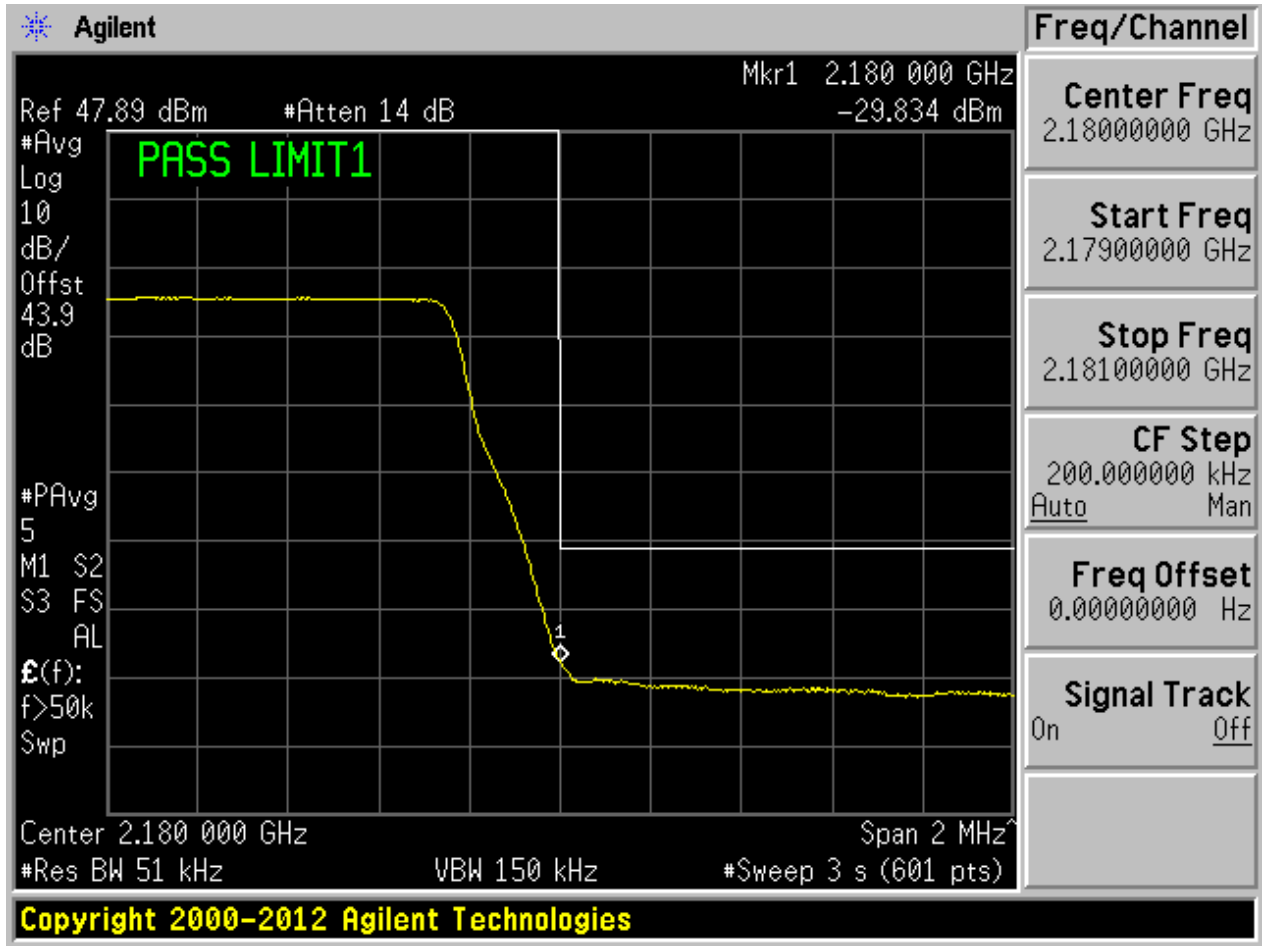
Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2180	2	0.051	RMS	Pass	601



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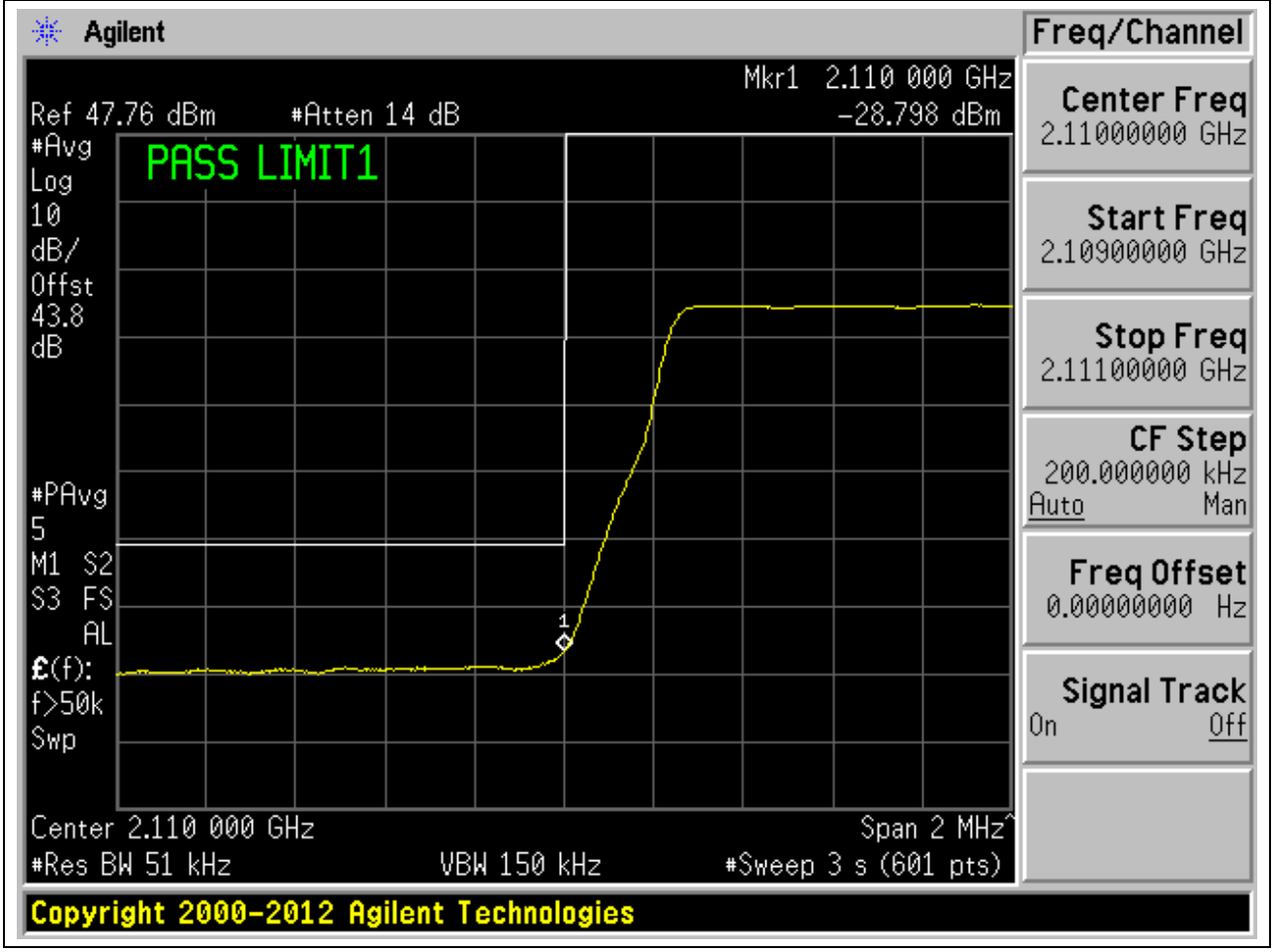
2.13 3L_5M_TM1.1_M

Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2110	2	0.051	RMS	Pass	601



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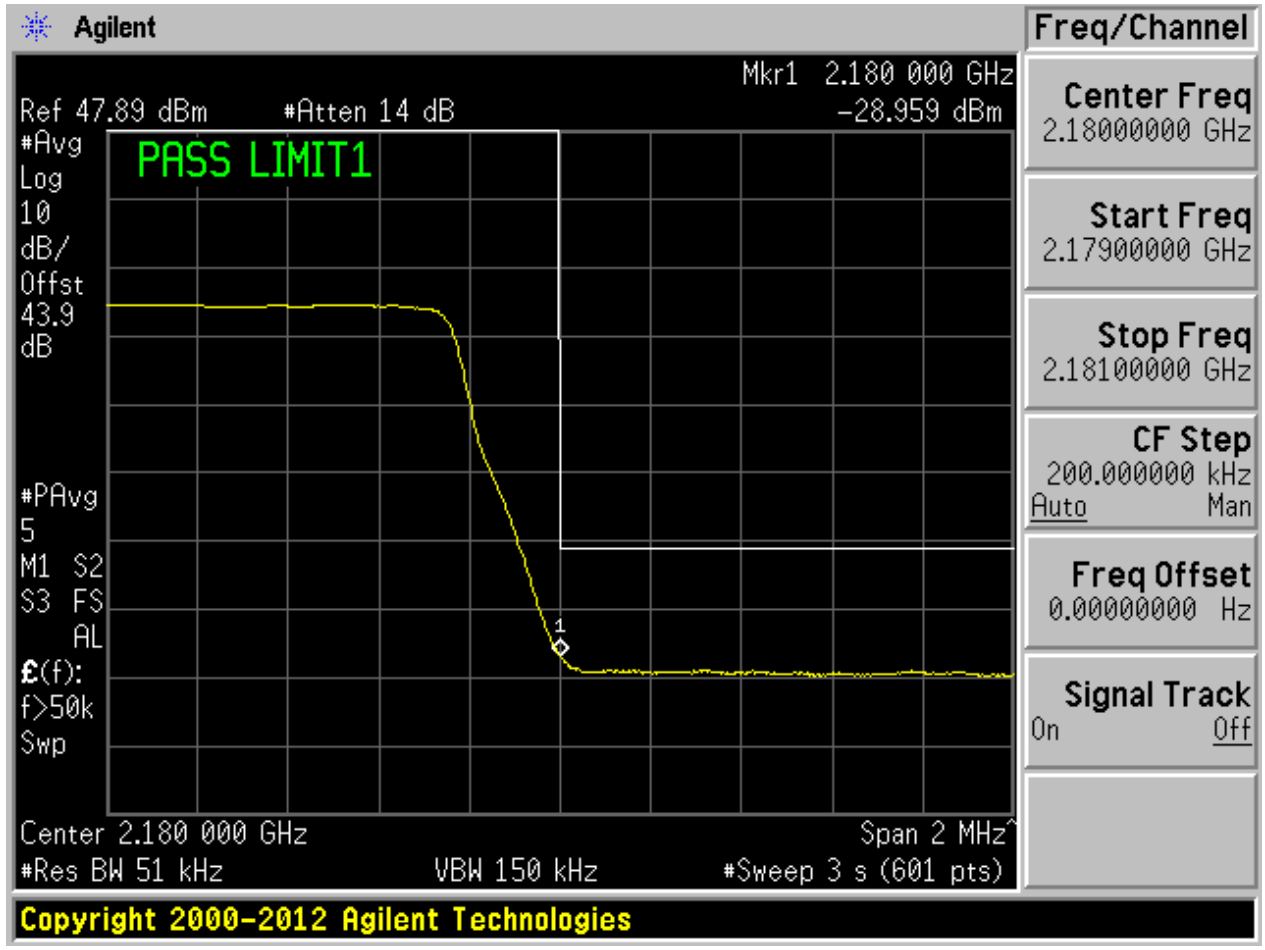
Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2180	2	0.051	RMS	Pass	601



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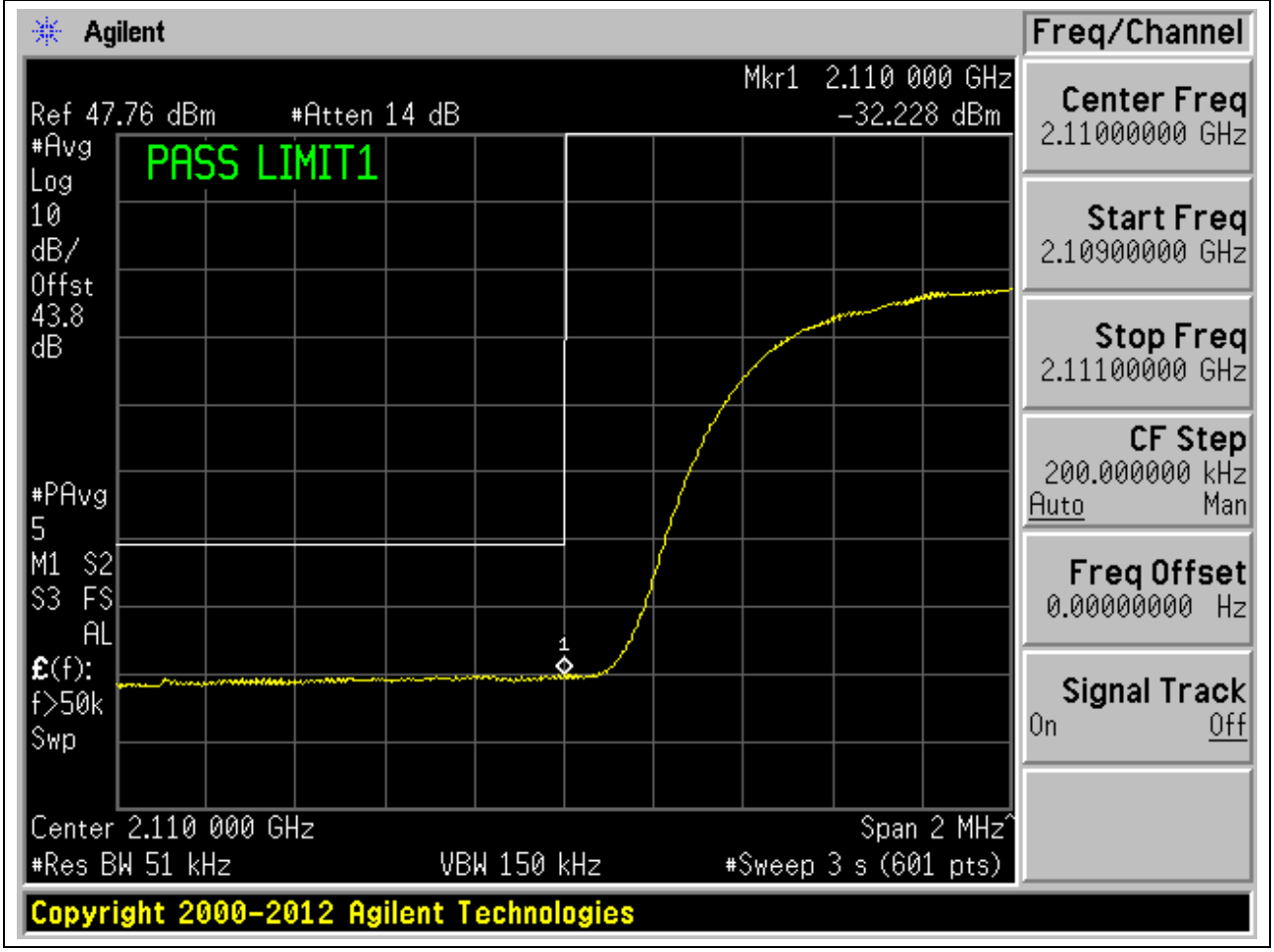
2.14 1U1L_M

Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2110	2	0.051	RMS	Pass	601



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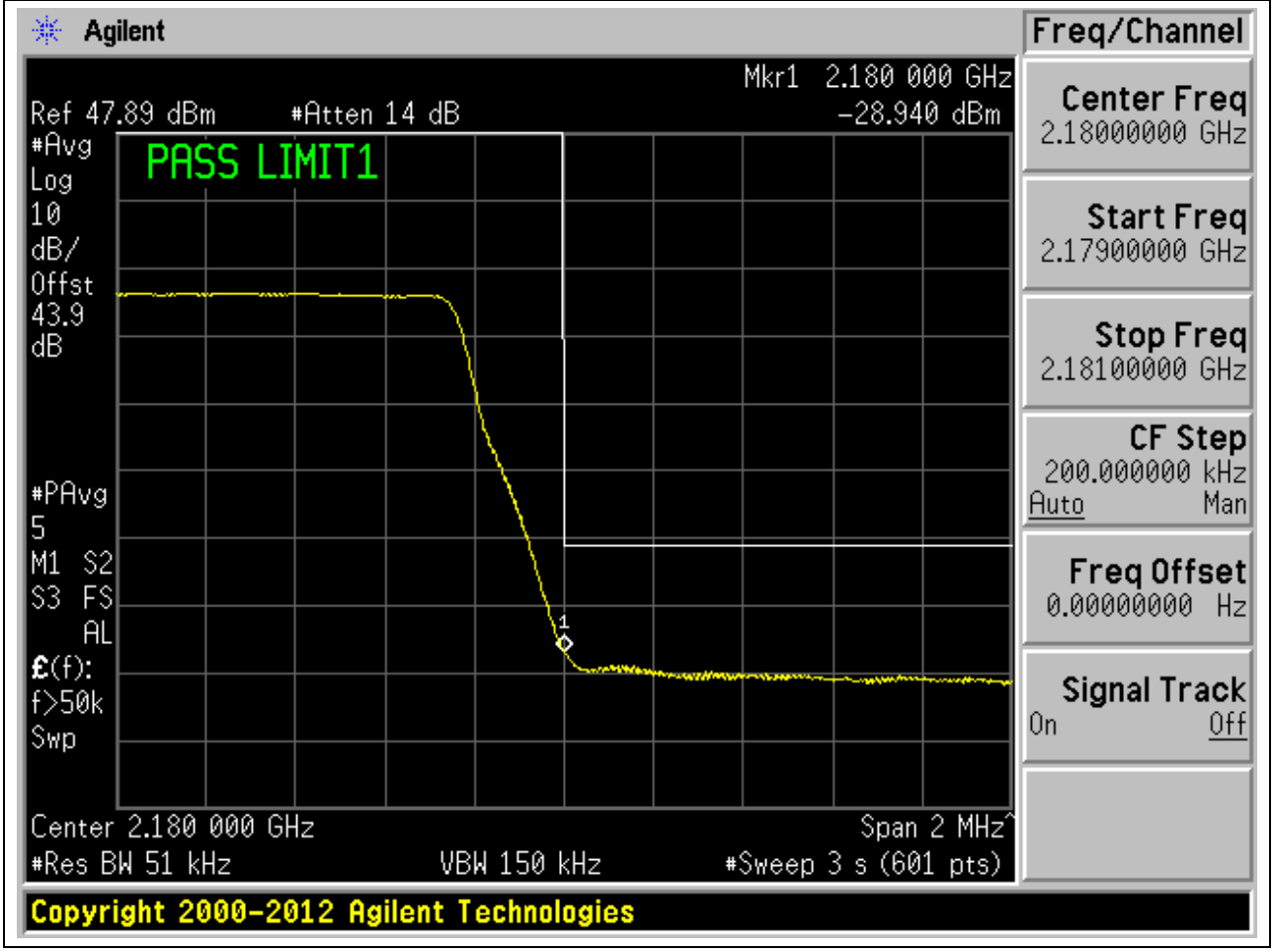
Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2180	2	0.051	RMS	Pass	601



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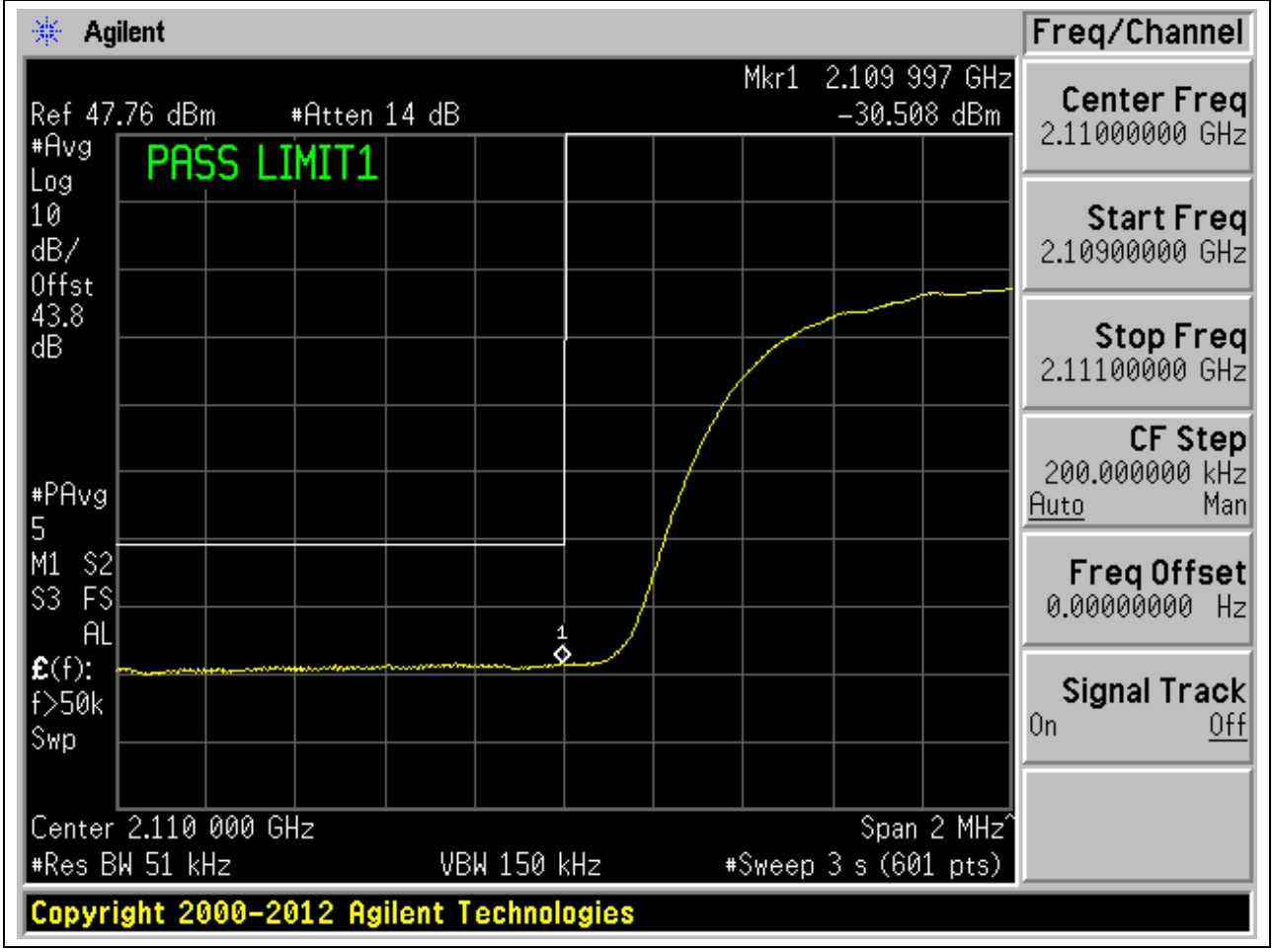
2.15 1U2L_M

Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2110	2	0.051	RMS	Pass	601



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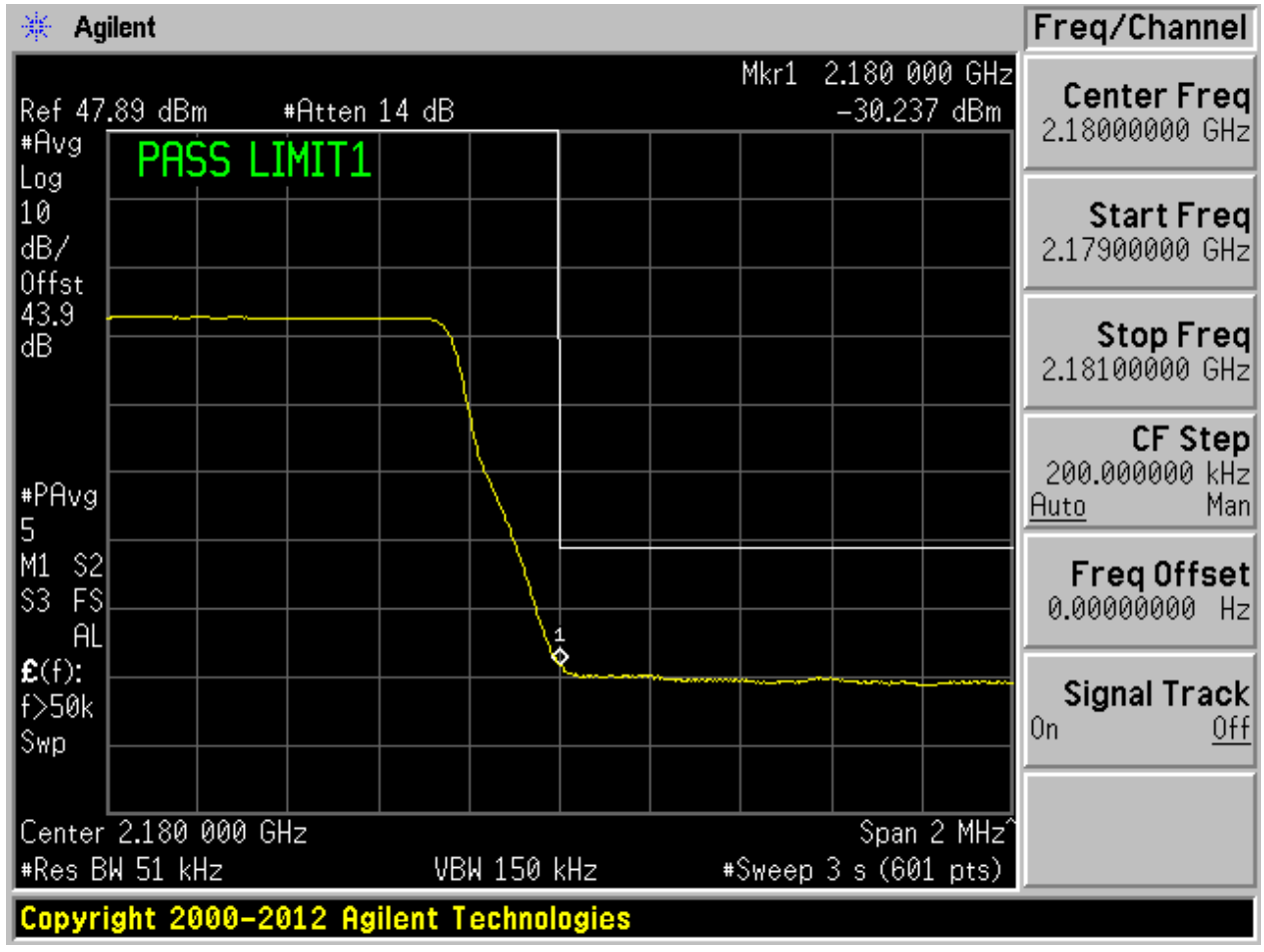
Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2180	2	0.051	RMS	Pass	601



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Appendix D: Spurious Emission at Antenna Terminals

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1 Result Table

EUT Conf.	Maximum Emission [dBm]	Verdict
1U_TM1_B	<-13	Pass
1U_TM1_M	<-13	Pass
1U_TM1_T	<-13	Pass
2U_TM1_M	<-13	Pass
1L_5M_TM1.1_B	<-13	Pass
1L_5M_TM1.1_M	<-13	Pass
1L_5M_TM1.1_T	<-13	Pass
1L_10M_TM1.1_B	<-13	Pass
1L_10M_TM1.1_M	<-13	Pass
1L_10M_TM1.1_T	<-13	Pass
1L_15M_TM1.1_B	<-13	Pass
1L_15M_TM1.1_M	<-13	Pass
1L_15M_TM1.1_T	<-13	Pass
1L_20M_TM1.1_B	<-13	Pass
1L_20M_TM1.1_M	<-13	Pass
1L_20M_TM1.1_T	<-13	Pass
2L_5M_TM1.1_M	<-13	Pass
3L_5M_TM1.1_M	<-13	Pass
1U1L_M	<-13	Pass
1U2L_M	<-13	Pass

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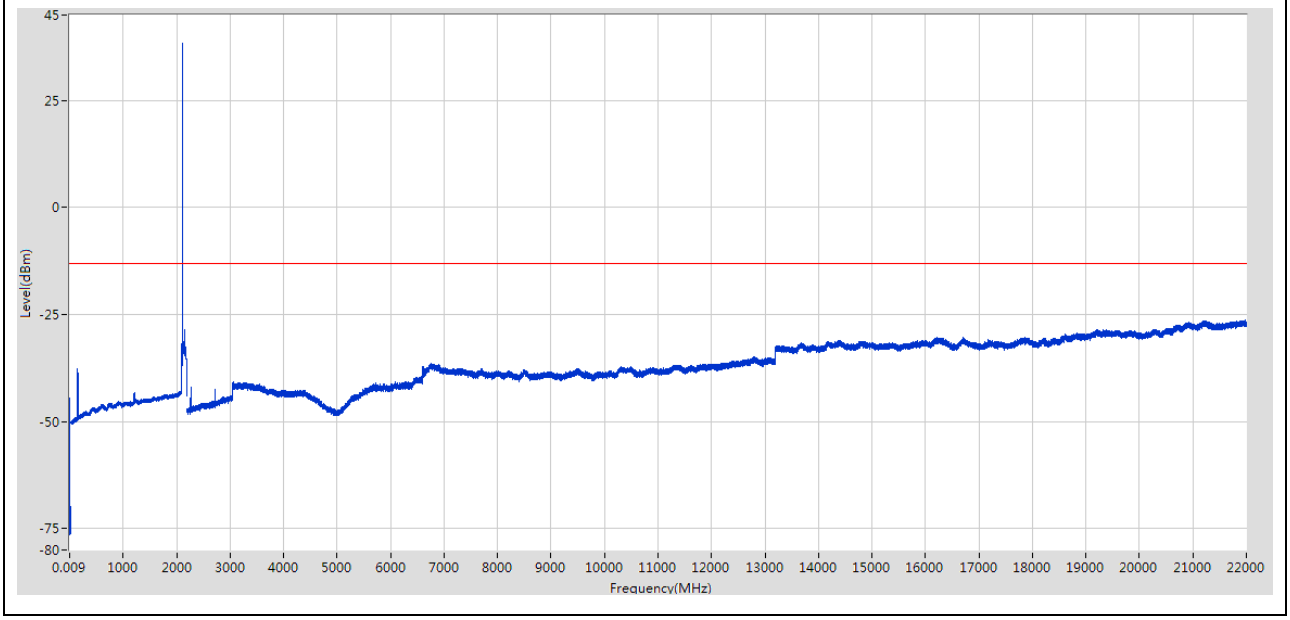
2 Test Plot

2.1 1U_TM1_B

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	14.007 k	-48.82	-13	Pass	705
0.15	30	0.01	RMS	160.001 k	-44.43	-13	Pass	14925
30	2200	1	RMS	2113.567482 M	38.33	-13	Fail	10850
2200	22000	1	RMS	21985.979856 M	-26.27	-13	Pass	99000



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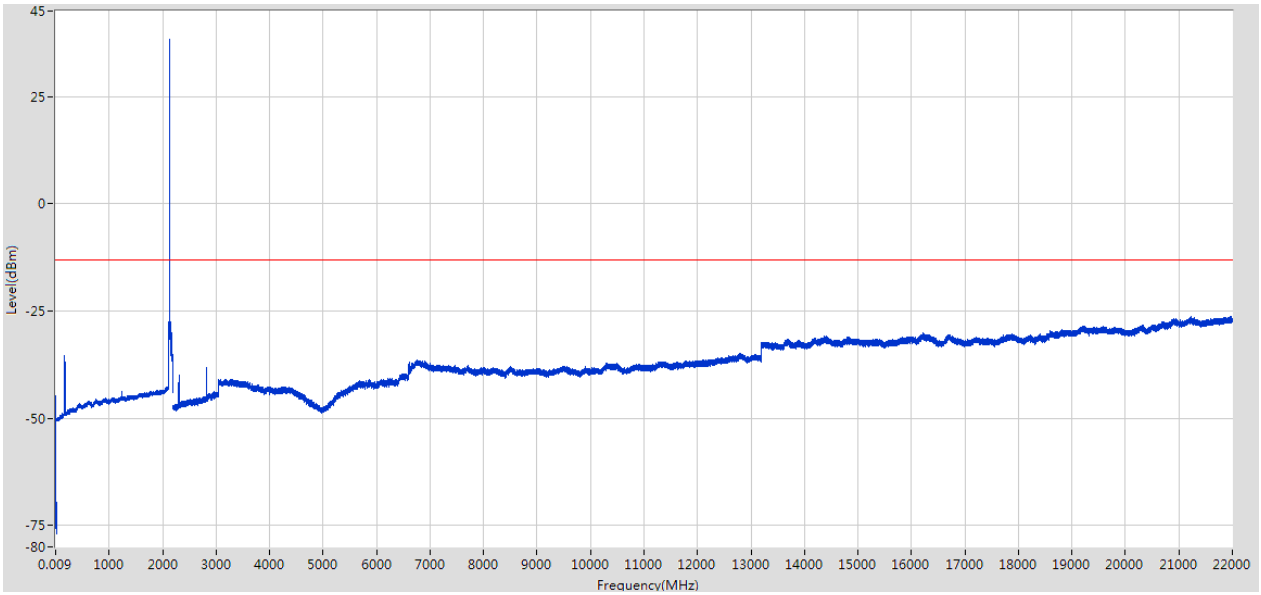
2.2 1U_TM1_M

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	14.207 k	-48.03	-13	Pass	705
0.15	30	0.01	RMS	160.001 k	-44.68	-13	Pass	14925
30	2200	1	RMS	2131.374181 M	38.49	-13	Fail	10850
2200	22000	1	RMS	21982.97554 M	-26.26	-13	Pass	99000



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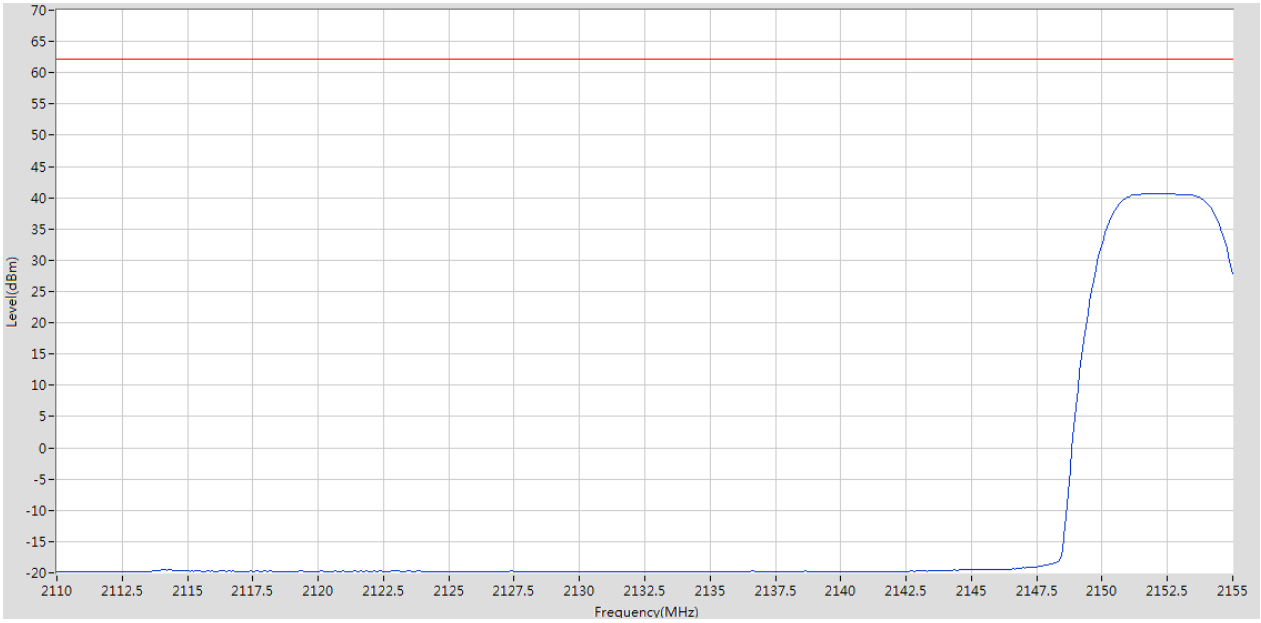
2.3 1U_TM1_T

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2110	2155	1	RMS	2152.225 M	40.64	62.15	Pass	601



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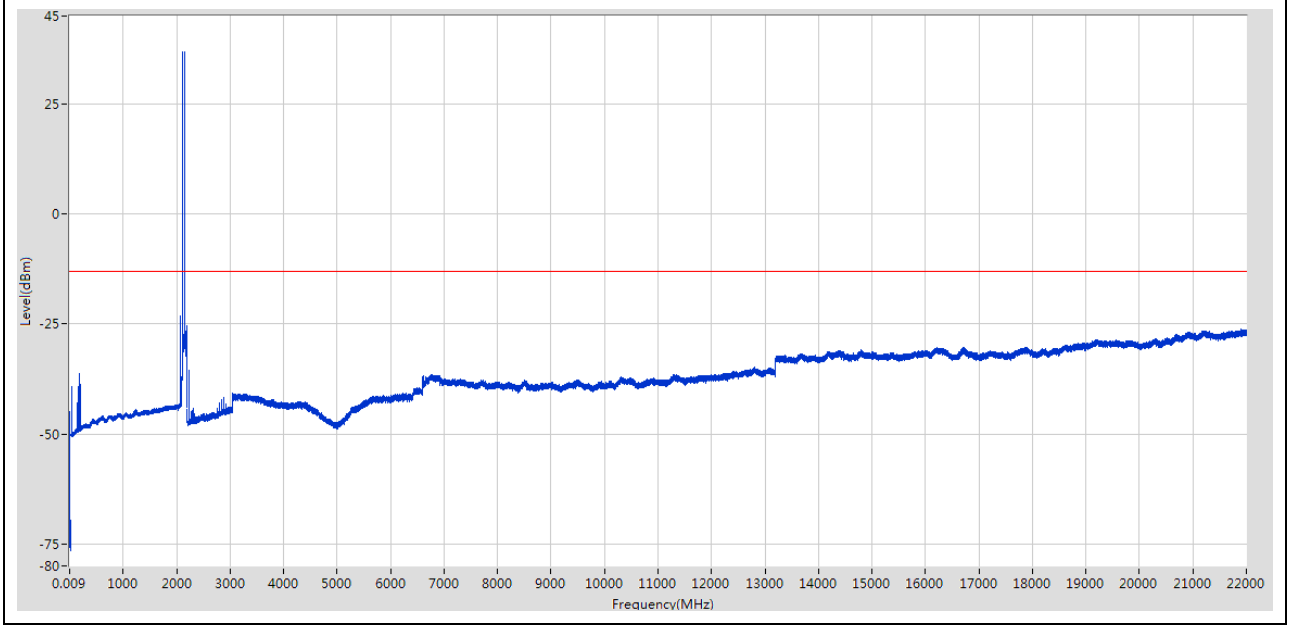
2.4 2U_TM1_M

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	14.207 k	-49.43	-13	Pass	705
0.15	30	0.01	RMS	154 k	-44.98	-13	Pass	14925
30	2200	1	RMS	2111.766805 M	36.84	-13	Fail	10850
2200	22000	1	RMS	21903.261007 M	-26.27	-13	Pass	99000



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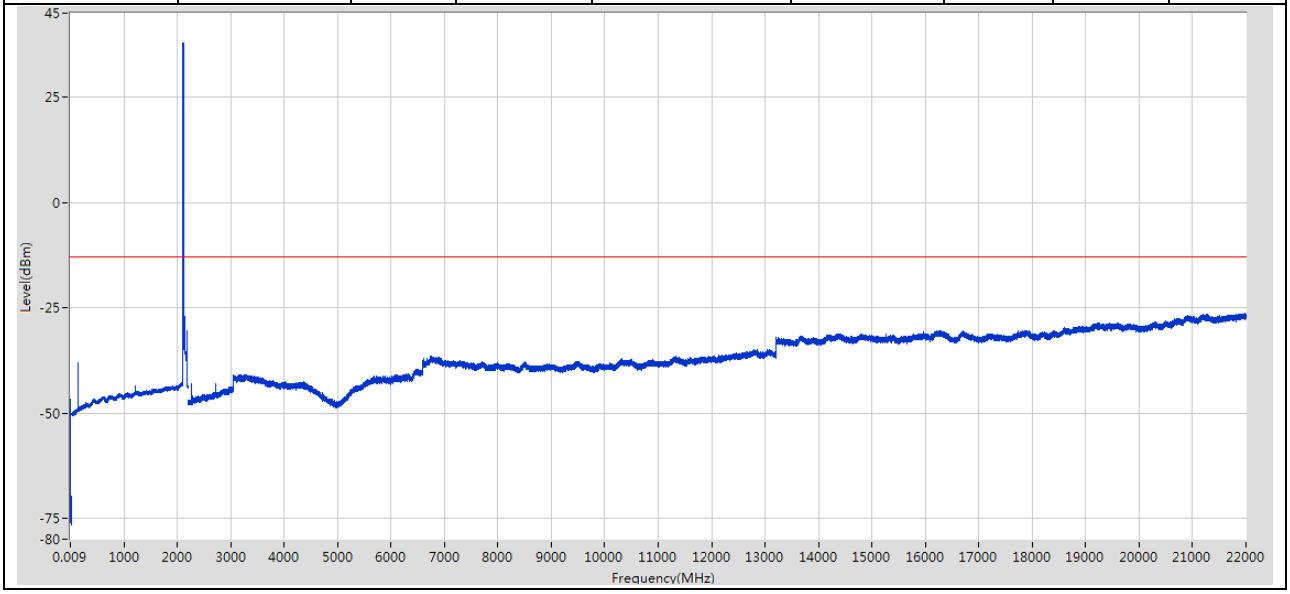
2.5 1L_5M_TM1.1_B

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	14.007 k	-51.33	-13	Pass	705
0.15	30	0.01	RMS	310.02 k	-46.84	-13	Pass	14925
30	2200	1	RMS	2113.967633 M	38.01	-13	Fail	10850
2200	22000	1	RMS	21983.976978 M	-26.37	-13	Pass	99000



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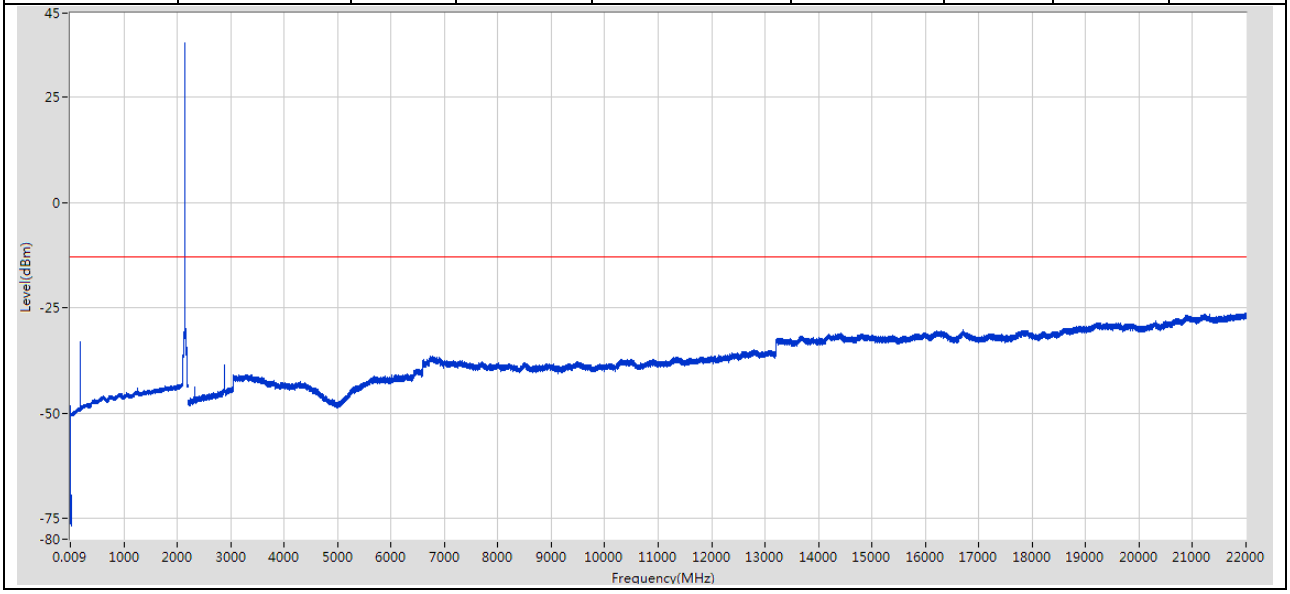
2.6 1L_5M_TM1.1_M

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	20.817 k	-51.27	-13	Pass	705
0.15	30	0.01	RMS	1.058111 M	-48.35	-13	Pass	14925
30	2200	1	RMS	2143.378698 M	37.87	-13	Fail	10850
2200	22000	1	RMS	21990.185899 M	-26.22	-13	Pass	99000



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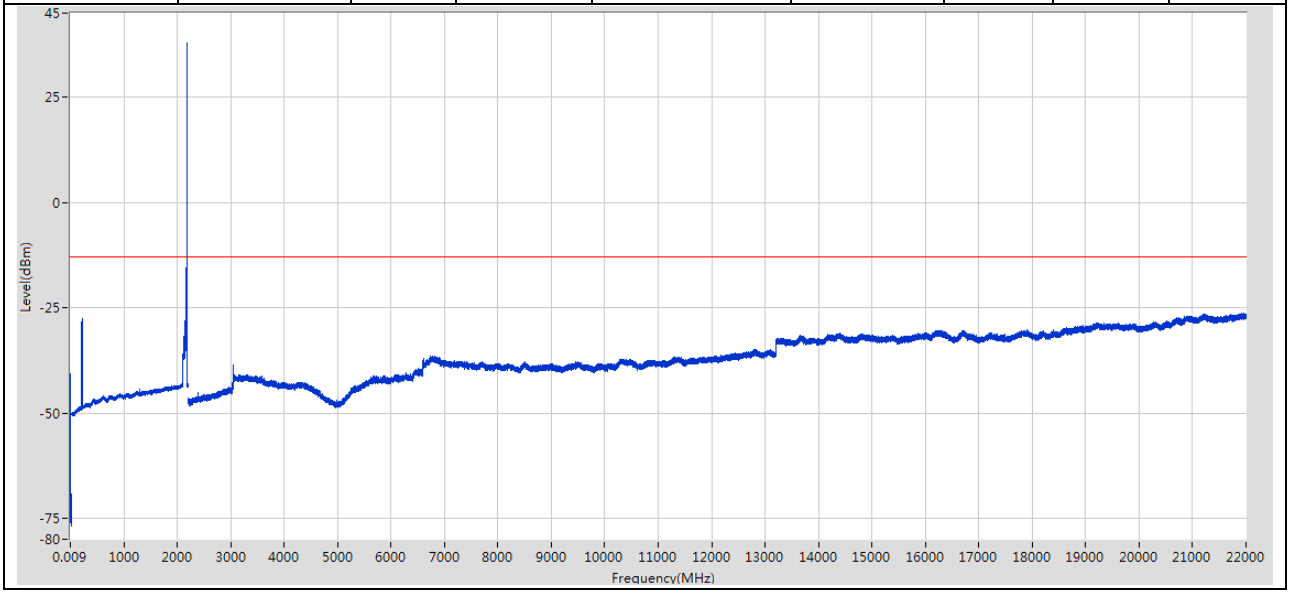
2.7 1L_5M_TM1.1_T

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	20.817 k	-50.6	-13	Pass	705
0.15	30	0.01	RMS	156.001 k	-40.72	-13	Pass	14925
30	2200	1	RMS	2175.990967 M	38.04	-13	Fail	10850
2200	22000	1	RMS	21917.080863 M	-26.32	-13	Pass	99000



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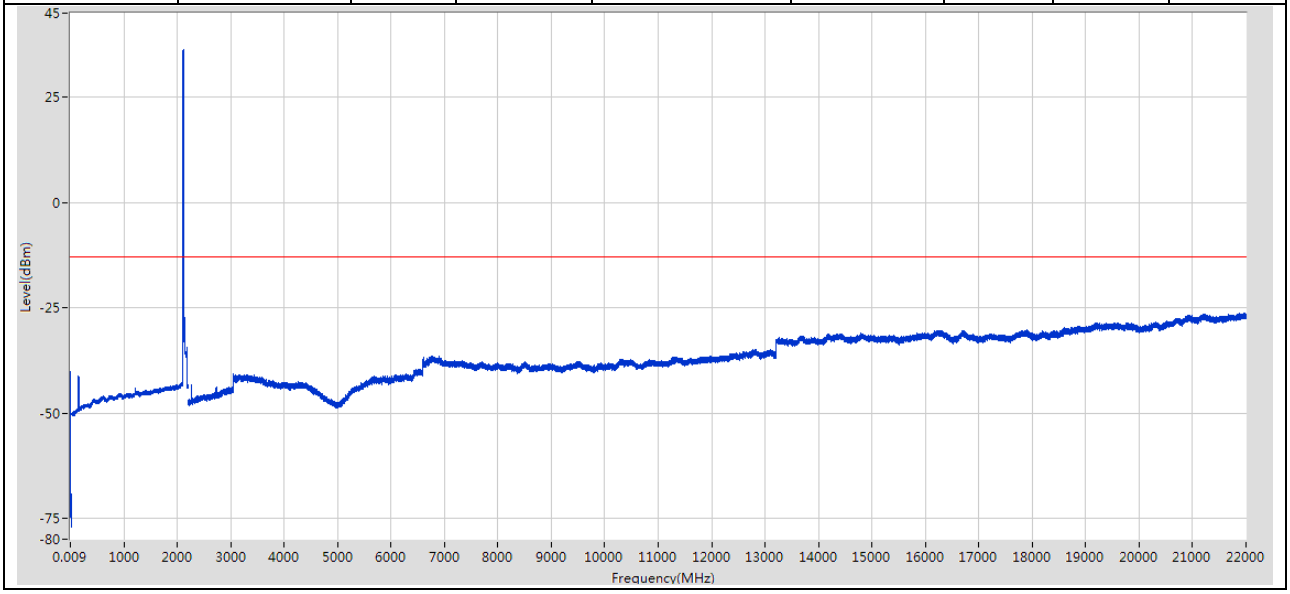
2.8 1L_10M_TM1.1_B

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	20.817 k	-51.47	-13	Pass	705
0.15	30	0.01	RMS	158.001 k	-40.28	-13	Pass	14925
30	2200	1	RMS	2118.569364 M	36.23	-13	Fail	10850
2200	22000	1	RMS	21980.772374 M	-26.31	-13	Pass	99000



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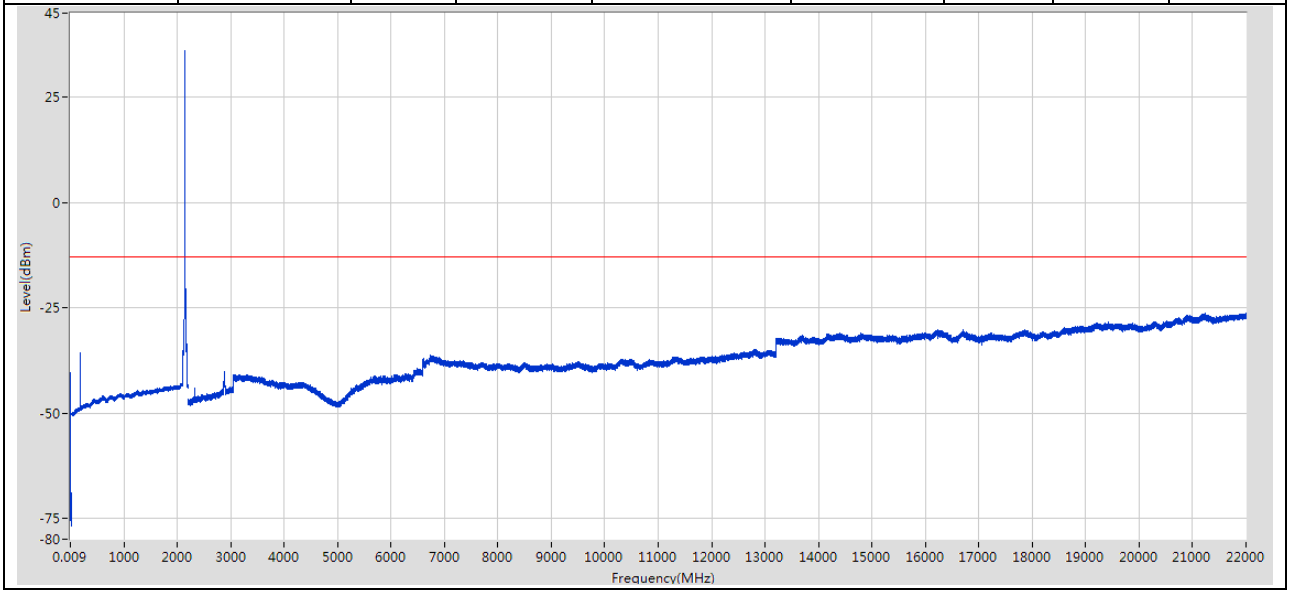
2.9 1L_10M_TM1.1_M

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	20.817 k	-51.51	-13	Pass	705
0.15	30	0.01	RMS	156.001 k	-40.3	-13	Pass	14925
30	2200	1	RMS	2148.38058 M	36.2	-13	Fail	10850
2200	22000	1	RMS	21997.195971 M	-26.37	-13	Pass	99000



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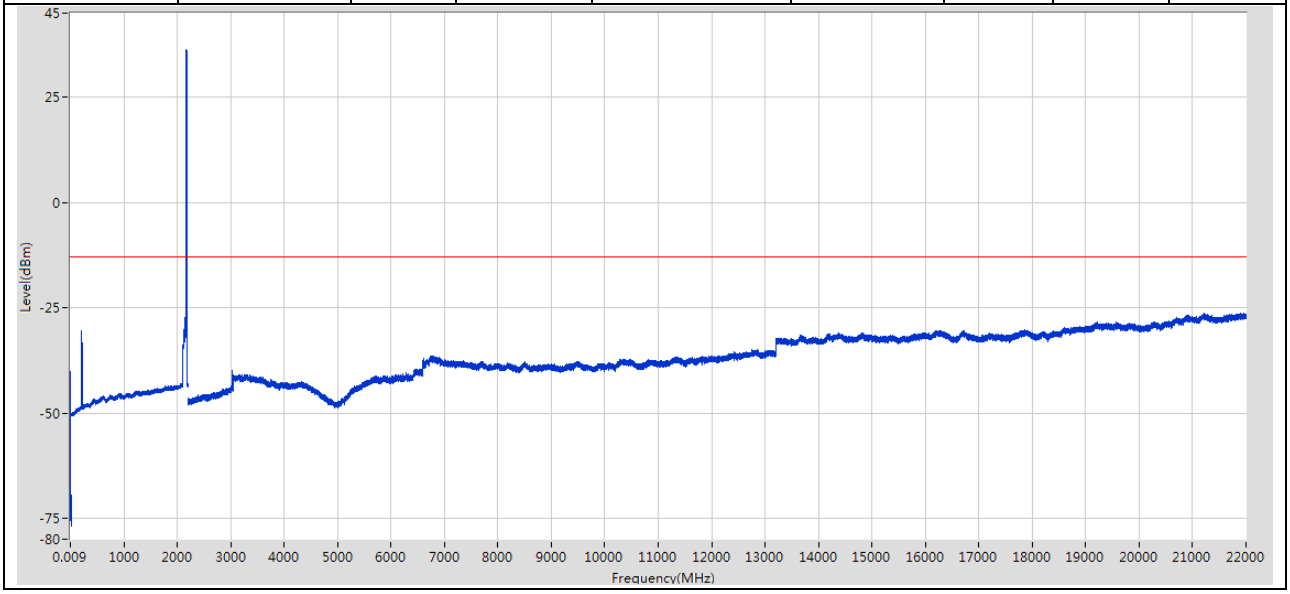
2.10 1L_10M_TM1.1_T

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	13.807 k	-51.88	-13	Pass	705
0.15	30	0.01	RMS	158.001 k	-40.19	-13	Pass	14925
30	2200	1	RMS	2171.789387 M	36.35	-13	Fail	10850
2200	22000	1	RMS	21905.263885 M	-26.31	-13	Pass	99000



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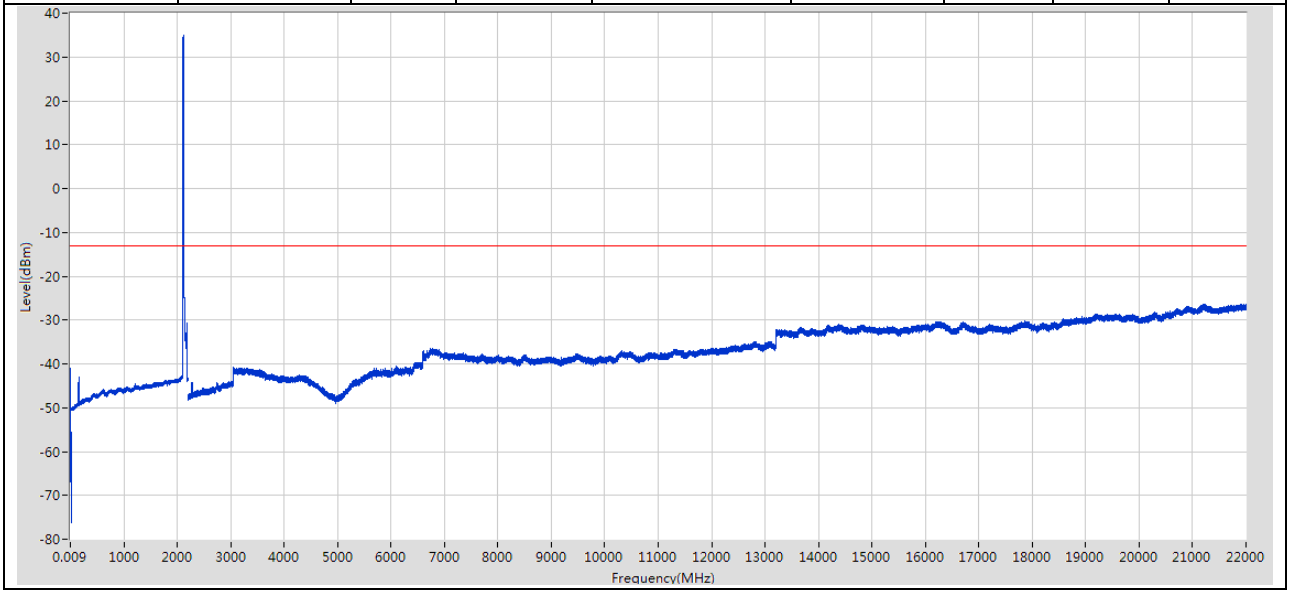
2.11 1L_15M_TM1.1_B

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	20.817 k	-52.31	-13	Pass	705
0.15	30	0.01	RMS	154 k	-41.01	-13	Pass	14925
30	2200	1	RMS	2123.171095 M	35	-13	Fail	10850
2200	22000	1	RMS	21968.755108 M	-26.34	-13	Pass	99000



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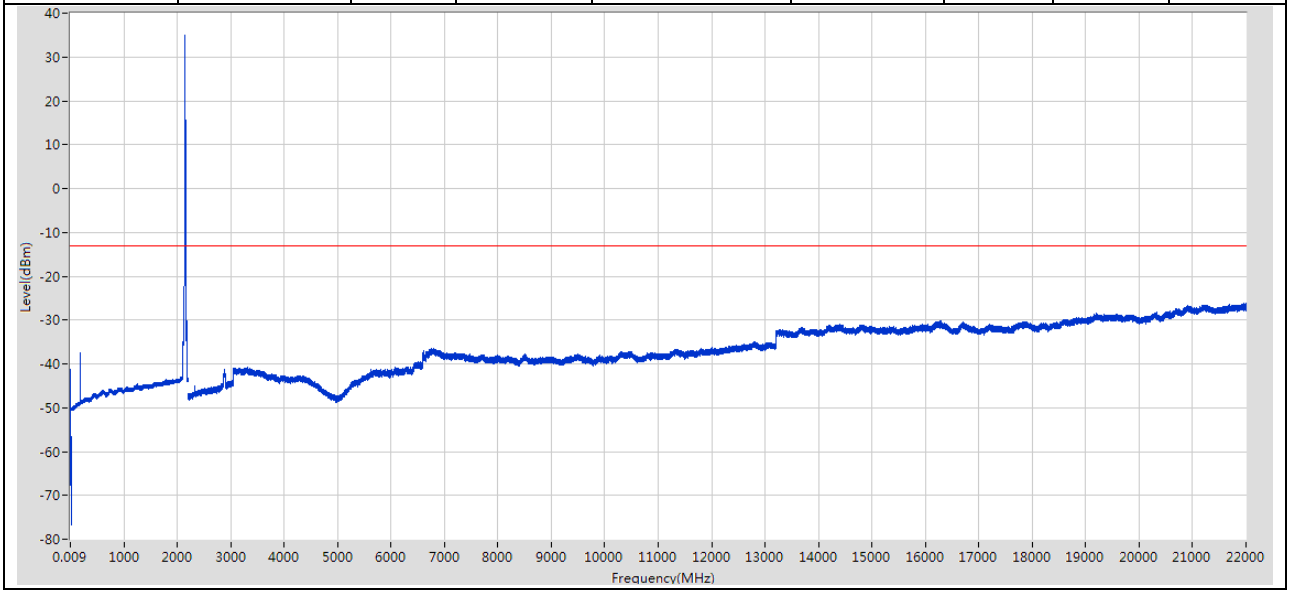
2.12 1L_15M_TM1.1_M

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	14.007 k	-51.72	-13	Pass	705
0.15	30	0.01	RMS	158.001 k	-41.28	-13	Pass	14925
30	2200	1	RMS	2150.581408 M	34.89	-13	Fail	10850
2200	22000	1	RMS	21991.788201 M	-26.26	-13	Pass	99000



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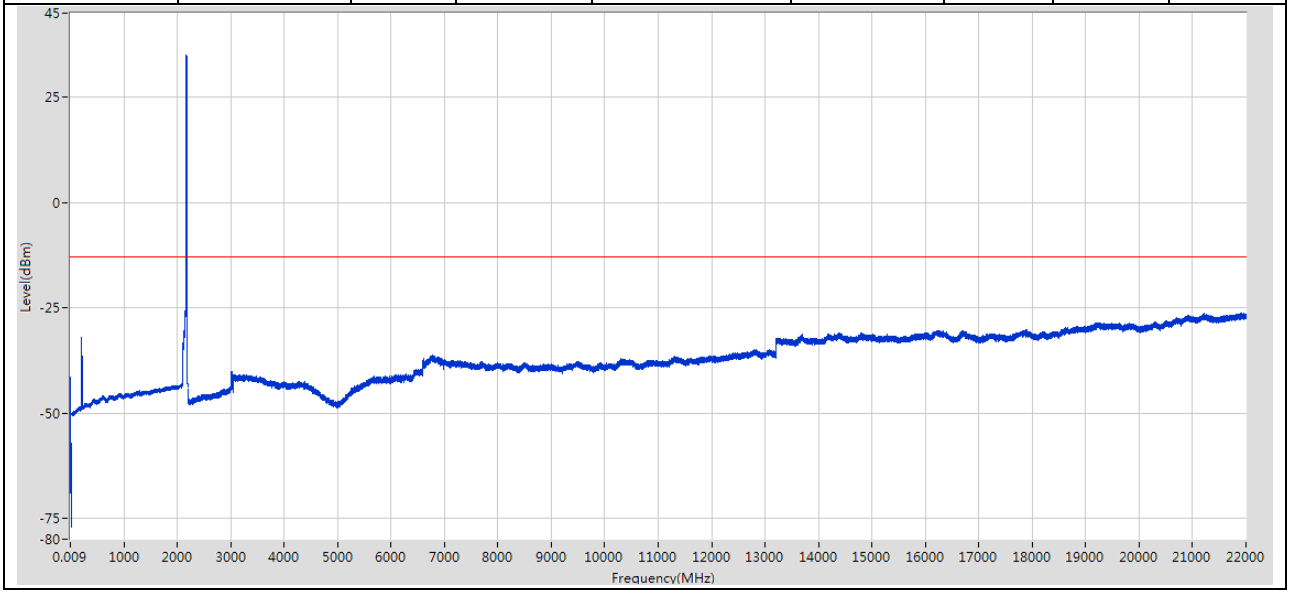
2.13 1L_15M_TM1.1_T

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	20.616 k	-52.04	-13	Pass	705
0.15	30	0.01	RMS	156.001 k	-41.48	-13	Pass	14925
30	2200	1	RMS	2166.587429 M	35.17	-13	Fail	10850
2200	22000	1	RMS	21906.465612 M	-26.29	-13	Pass	99000



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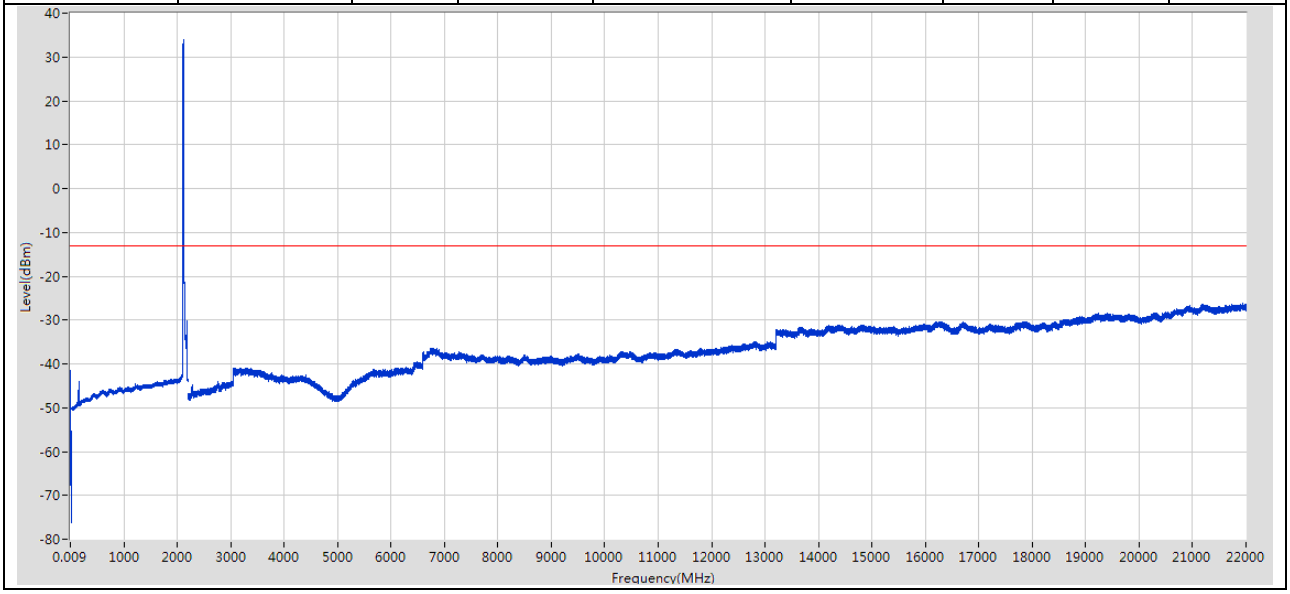
2.14 1L_20M_TM1.1_B

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	27.626 k	-52.18	-13	Pass	705
0.15	30	0.01	RMS	154 k	-41.47	-13	Pass	14925
30	2200	1	RMS	2127.372676 M	34.05	-13	Fail	10850
2200	22000	1	RMS	21944.119712 M	-26.29	-13	Pass	99000



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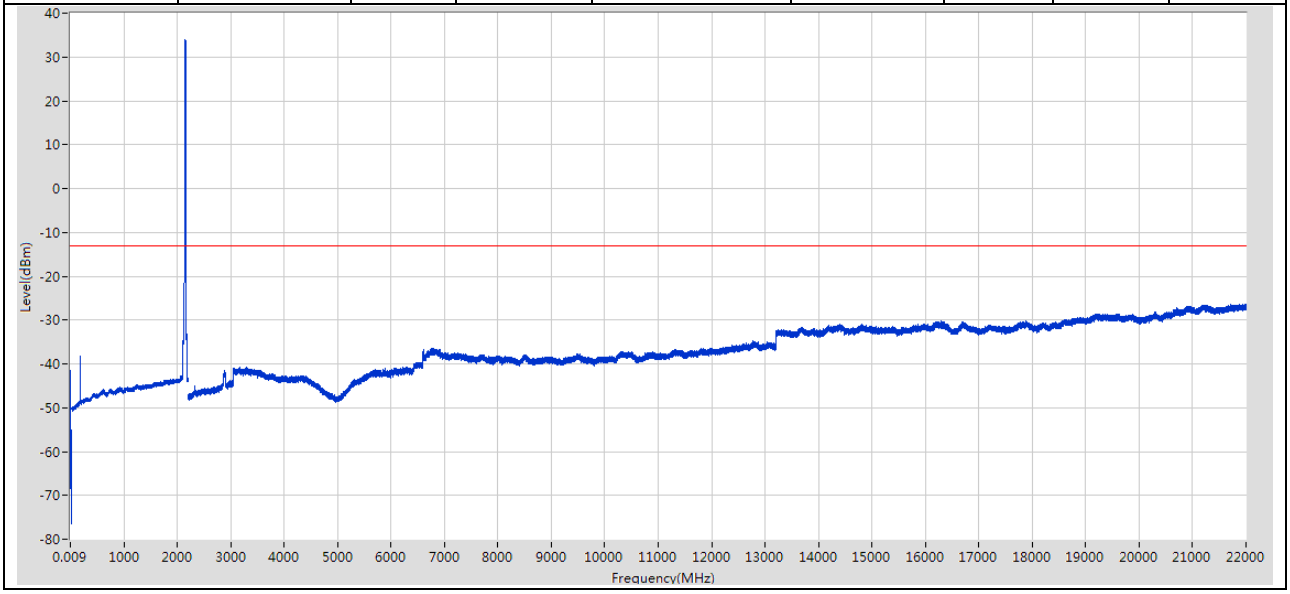
2.15 1L_20M_TM1.1_M

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	14.207 k	-52.61	-13	Pass	705
0.15	30	0.01	RMS	154 k	-41.42	-13	Pass	14925
30	2200	1	RMS	2150.781483 M	33.85	-13	Fail	10850
2200	22000	1	RMS	21973.161439 M	-26.33	-13	Pass	99000



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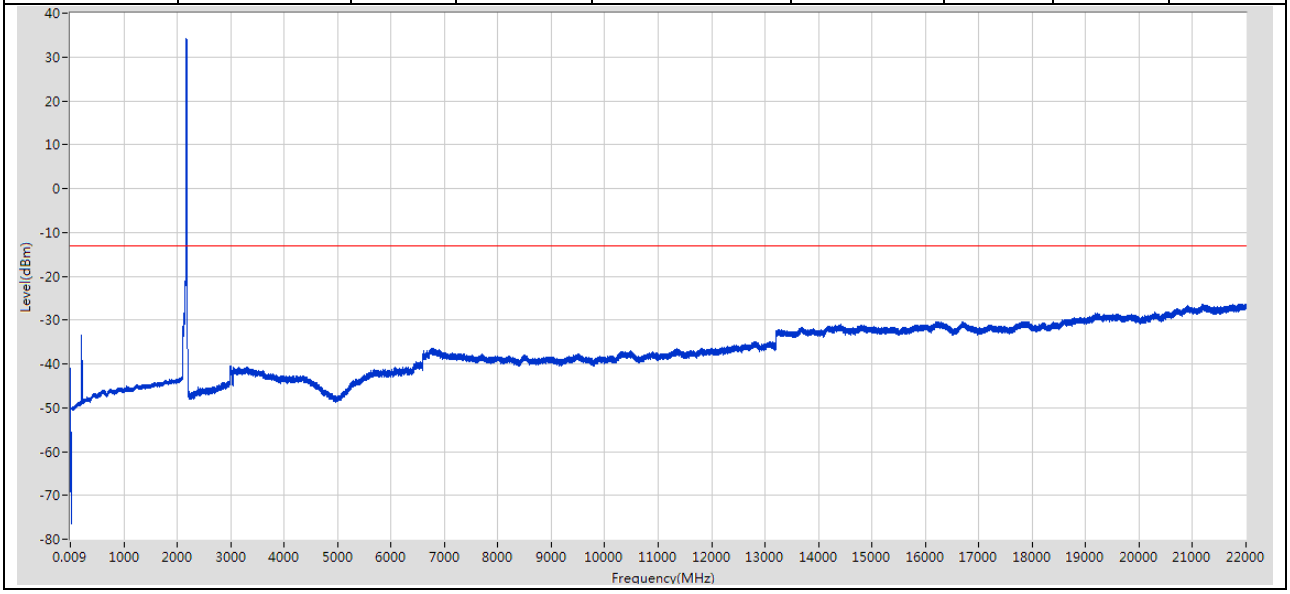
2.16 1L_20M_TM1.1_T

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	27.226 k	-52.38	-13	Pass	705
0.15	30	0.01	RMS	156.001 k	-41.07	-13	Pass	14925
30	2200	1	RMS	2163.986451 M	34.23	-13	Fail	10850
2200	22000	1	RMS	21994.391942 M	-26.34	-13	Pass	99000



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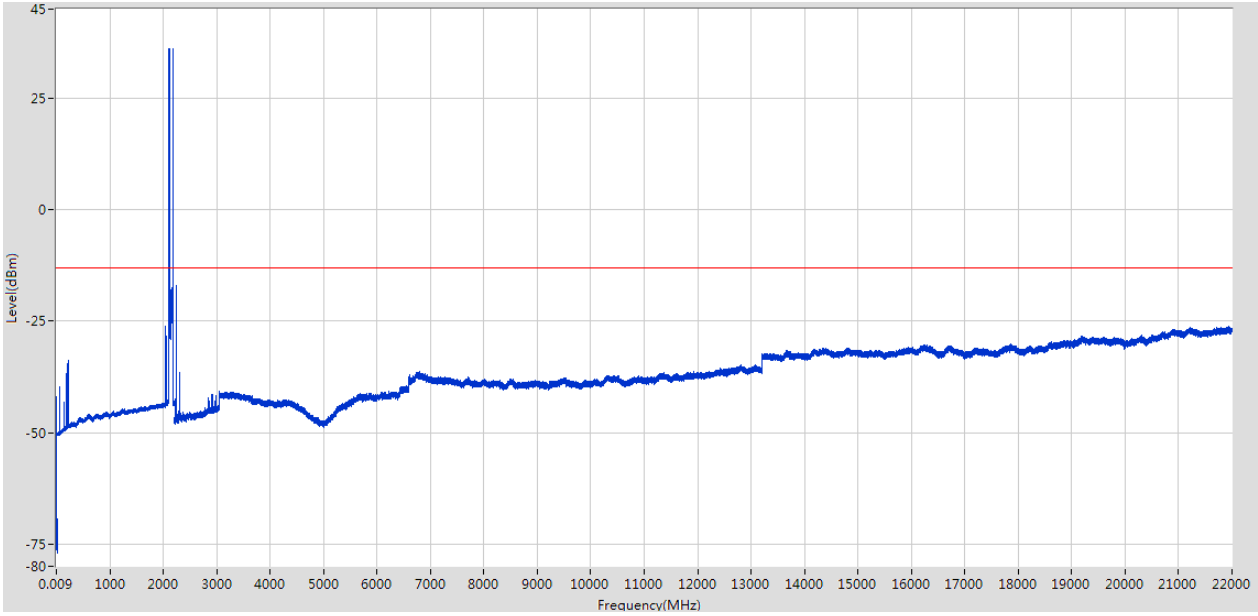
2.17 2L_5M_TM1.1_M

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	20.817 k	-51.75	-13	Pass	705
0.15	30	0.01	RMS	158.001 k	-41.98	-13	Pass	14925
30	2200	1	RMS	2176.591193 M	36.2	-13	Fail	10850
2200	22000	1	RMS	2242.605201 M	-16.92	-13	Pass	99000



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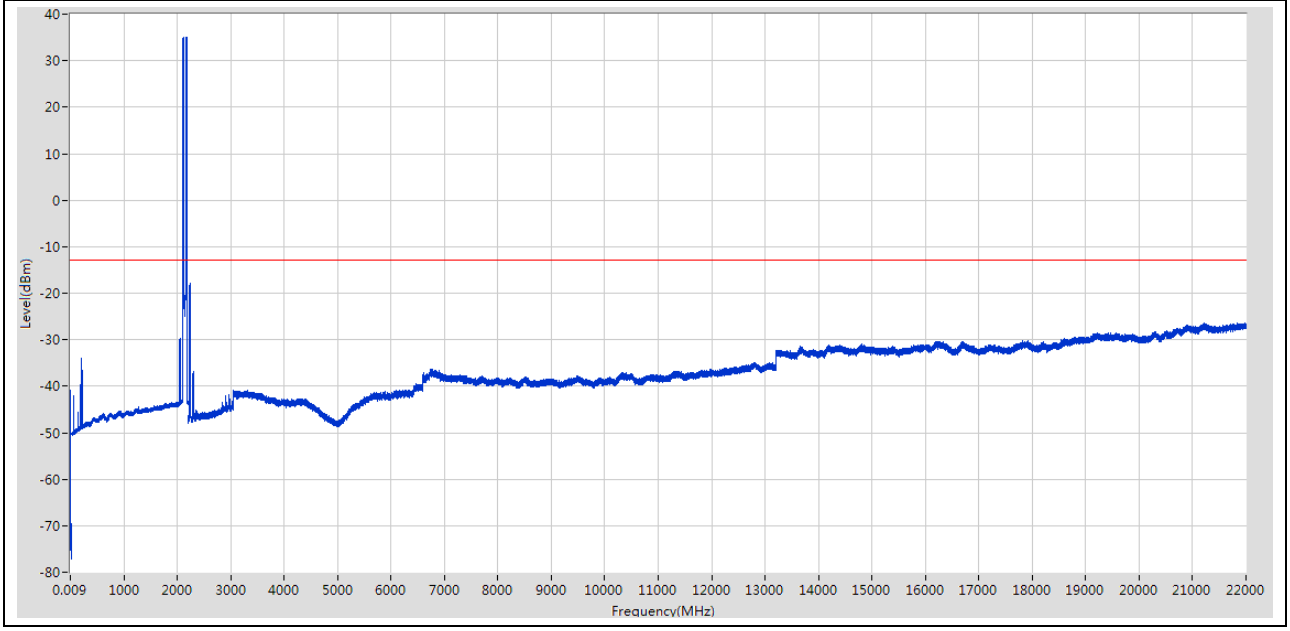
2.18 3L_5M_TM1.1_M

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	20.817 k	-50.71	-13	Pass	705
0.15	30	0.01	RMS	158.001 k	-40.96	-13	Pass	14925
30	2200	1	RMS	2113.767557 M	34.95	-13	Fail	10850
2200	22000	1	RMS	2237.60459 M	-17.85	-13	Pass	99000



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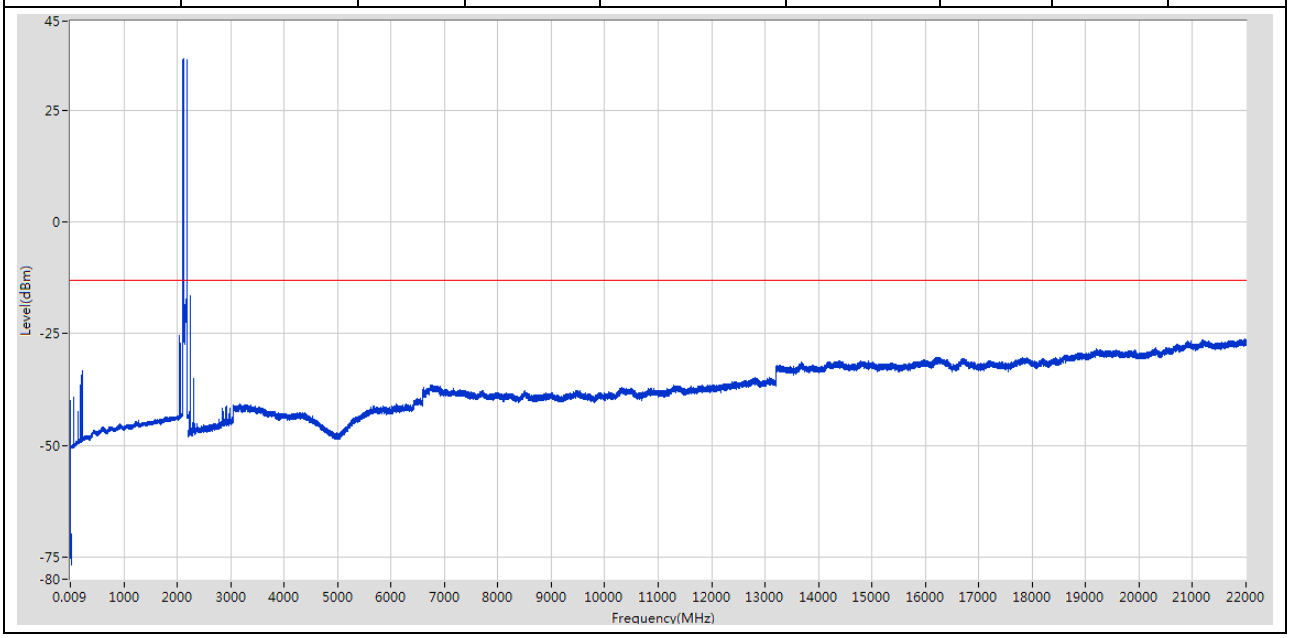
2.19 1U1L_M

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	14.007 k	-50.4	-13	Pass	705
0.15	30	0.01	RMS	156.001 k	-39.95	-13	Pass	14925
30	2200	1	RMS	2111.96688 M	36.68	-13	Fail	10850
2200	22000	1	RMS	2242.805225 M	-16.61	-13	Pass	99000



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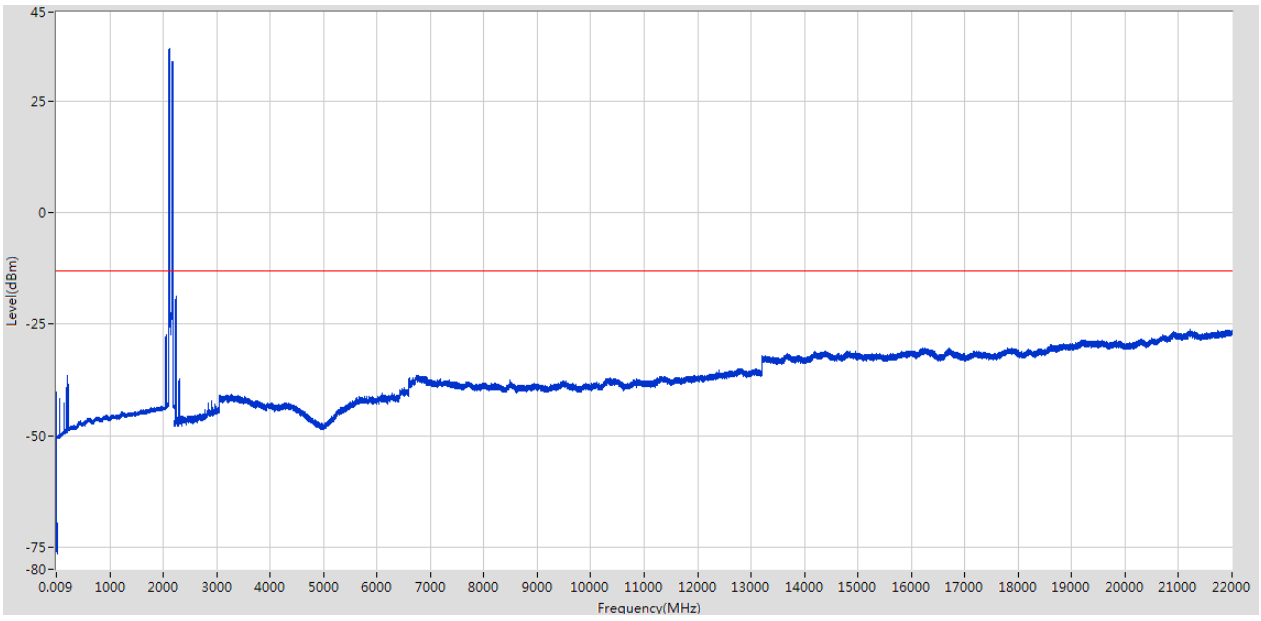
2.20 1U2L_M

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	14.207 k	-50.93	-13	Pass	705
0.15	30	0.01	RMS	156.001 k	-40.17	-13	Pass	14925
30	2200	1	RMS	2113.167332 M	36.86	-13	Fail	10850
2200	22000	1	RMS	2237.404566 M	-18.68	-13	Pass	99000



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Appendix E: Field Strength of Spurious Radiation / Radiated Spurious Emissions

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1 Result Table

NOTE: If applicable, according to FCC KDB 971168 §5.8.3, for the requirement of a fixed limit (e.g. -13 dBm), the power limit can be mathematically converted to an equivalent field strength limit. The relationship is:
(1) E [dBμV/m] = EIRP [dBm] - 20*lg(D) + 104.8; where D is the measurement distance in meters.
(2) EIRP [dBm] = ERP [dBm] + 2.15.
Also according to FCC §2.1053(a), emissions are assumed radiated from halfwave dipole antennas, so the power limit refer to the ERP.
(For example, the fixed power limit -13 dBm can be converted to the field strength limit 84.4 dBμV/m at 3 m measurement distance, and to 93.95 dBμV/m at 1 m measurement distance assuming in the far-field region of both the transmit and receive antennas.)

Test Range	EUT Conf.	Maximum Emission	Verdict
30 MHz to 1 GHz	1U1L_M (Worst Case)	< -13 dBm	Pass
1 GHz to 18 GHz	1U1L_M (Worst Case)	< -13 dBm	Pass
18 GHz to 26.5 GHz	1U1L_M (Worst Case)	<84.4 dBμV/m	Pass

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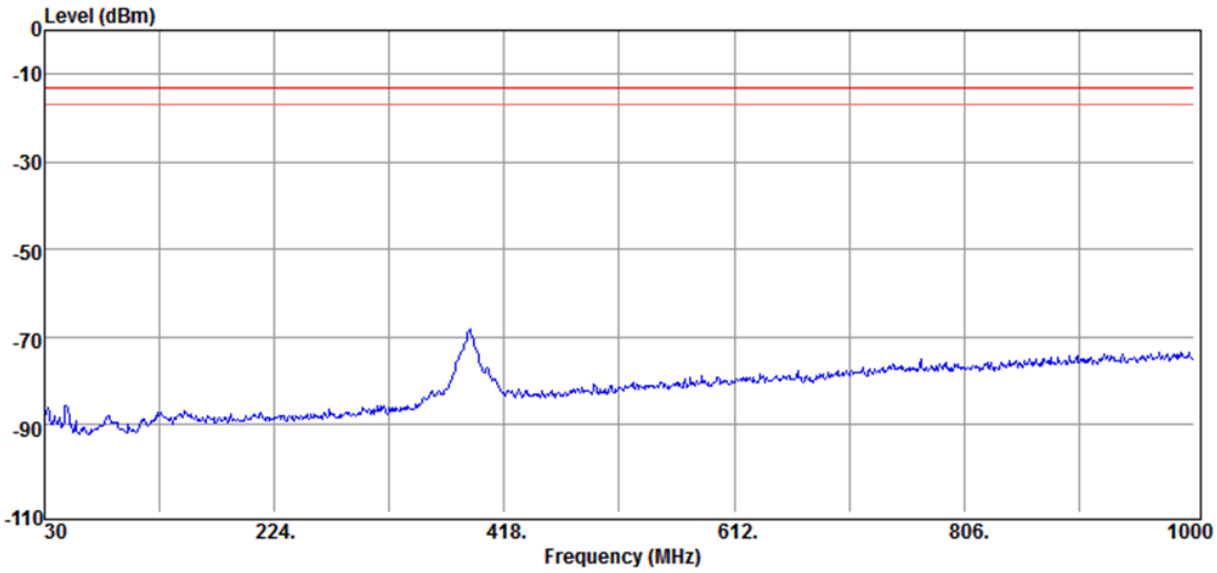
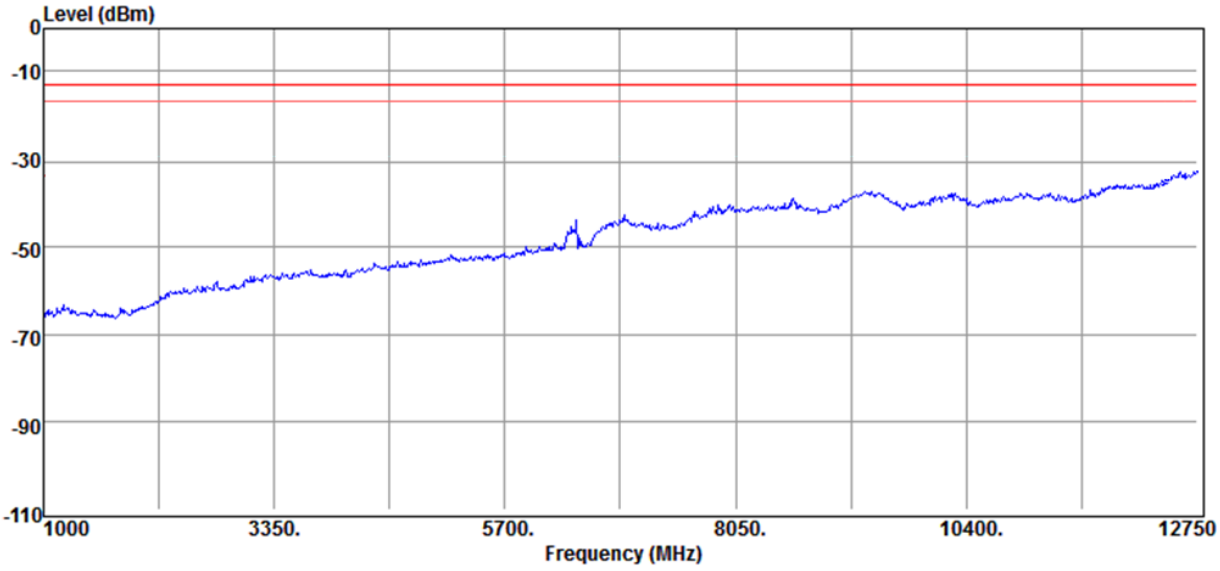
2 Test Plot

2.1 Test range of “30 MHz to 1 GHz”



2.2 Test range of “1 GHz to 18 GHz”



2.3 Test range of “18 GHz to 26.5 GHz”

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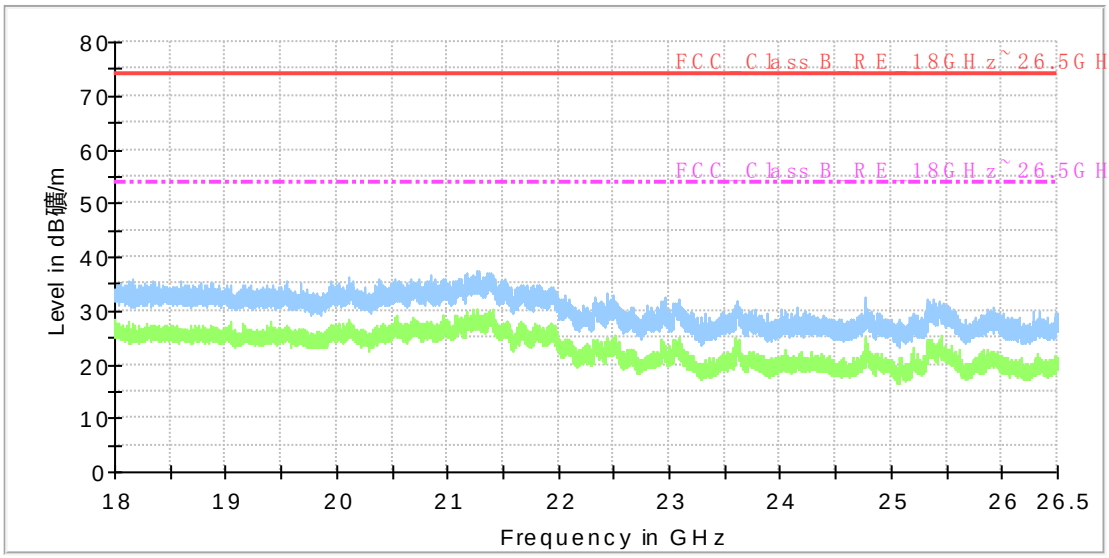
Radiated Disturbance (18GHz - 26.5GHz)



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Appendix F: Frequency Stability

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1 Result Table

1.1 Frequency Error

EUT Conf.	Temperature	Voltage	Freq. Error, f(offset) [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Verdict
1L_5M_TM1.1_M	-30 °C	100%	-1.2224	-0.000569883	-0.000337334	Pass
	-20 °C	100%	-1.0019	-0.000467086	-0.000234561	Pass
	-10 °C	100%	-0.4903	-0.000228578	0.000003892	Pass
	0 °C	100%	-0.19005	-0.000088601	0.000143836	Pass
	+10 °C	100%	1.3995	0.000652448	0.000884713	Pass
	+20 °C	85 %	-1.8637	-0.000868858	-0.000636239	Pass
	+20 °C	100 %	-0.49865	-0.000232471	---	Pass
	+20 °C	115 %	-1.7748	-0.000827413	-0.000594803	Pass
	+30 °C	100%	-0.65507	-0.000305394	-0.000072906	Pass
	+40 °C	100%	-1.3609	-0.000634452	-0.000401888	Pass
	+50 °C	100%	-0.45142	-0.000210452	0.000022014	Pass

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Appendix G: Receiver Spurious Emissions

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(Not applicable)

END

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