



Appendix A: Transmitter Output Power

1 Result Table

1.1 Channel Power, Total

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

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

1.1.1 Results with average detector

EUT Conf.	Channel Power [dBm]		Verdict
	Antenna Port A	Antenna Port B	
1L_5M_B	47.9	48.13	Pass
1L_5M_M	48.26	48.26	Pass
1L_5M_T	48.24	48.03	Pass
1L_10M_B	47.98	48.26	Pass
1L_10M_M	48.19	48.24	Pass
1L_10M_T	48.26	47.96	Pass
1L_15M_B	47.96	48.27	Pass
1L_15M_M	48.17	48.27	Pass
1L_15M_T	48.25	48.16	Pass
1L_20M_B	48.1	48.23	Pass
1L_20M_M	48.22	48.25	Pass
1L_20M_T	48.2	48.17	Pass
2L_5M_B	48.00	48.09	Pass
2L_5M_T	48.17	48.16	Pass
3L_5M_B	48.05	48.02	Pass
3L_5M_T	48.15	48.00	Pass

1.1.2 Results with Peak detector

EUT Conf.	Channel Power [dBm] (Antenna Port A)	Verdict
1L_5M_B	56.09	Pass
1L_5M_M	56.45	Pass
1L_5M_T	56.40	Pass
1L_10M_B	56.79	Pass
1L_10M_M	57.12	Pass
1L_10M_T	57.01	Pass
1L_15M_B	57.14	Pass
1L_15M_M	57.24	Pass



EUT Conf.	Channel Power [dBm] (Antenna Port A)	Verdict
1L_15M_T	57.27	Pass
1L_20M_B	56.86	Pass
1L_20M_M	56.90	Pass
1L_20M_T	56.91	Pass
2L_5M_B	56.29	Pass
2L_5M_T	56.42	Pass
3L_5M_B	56.25	Pass
3L_5M_T	56.38	Pass



1.2 Power Spectral Density

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

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

1.2.1 Results with average detector

EUT Conf.	Power Spectral Density [dBm/MHz]	Verdict
1L_5M_B	41.82	Pass
1L_5M_M	42.02	Pass
1L_5M_T	42.17	Pass
1L_10M_B	38.81	Pass
1L_10M_M	39.06	Pass
1L_10M_T	39.04	Pass
1L_15M_B	37.33	Pass
1L_15M_M	37.26	Pass
1L_15M_T	37.5	Pass
1L_20M_B	35.97	Pass
1L_20M_M	35.97	Pass
1L_20M_T	36.23	Pass

1.2.2 Results with Peak detector

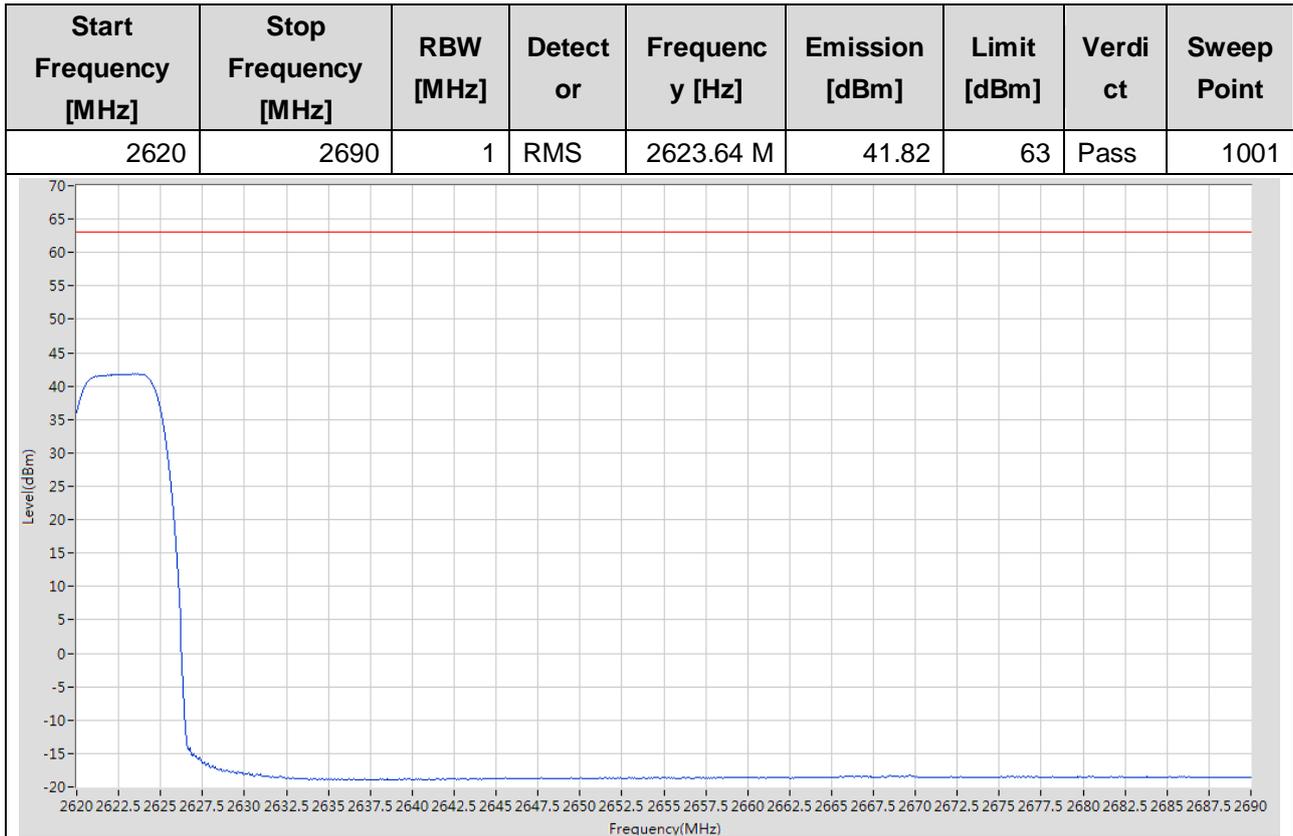
EUT Conf.	Power Spectral Density [dBm/MHz]	Verdict
1L_5M_B	53.2	Pass
1L_5M_M	53.18	Pass
1L_5M_T	53.53	Pass
1L_10M_B	51.13	Pass
1L_10M_M	51.27	Pass
1L_10M_T	51.27	Pass
1L_15M_B	49.91	Pass
1L_15M_M	49.96	Pass
1L_15M_T	50.00	Pass
1L_20M_B	48.06	Pass
1L_20M_M	48.30	Pass
1L_20M_T	48.38	Pass

2 Test Plot

NOTE: Only the test plots for the measurements of Spectral Density.

2.1 Power Spectral Density with average detector

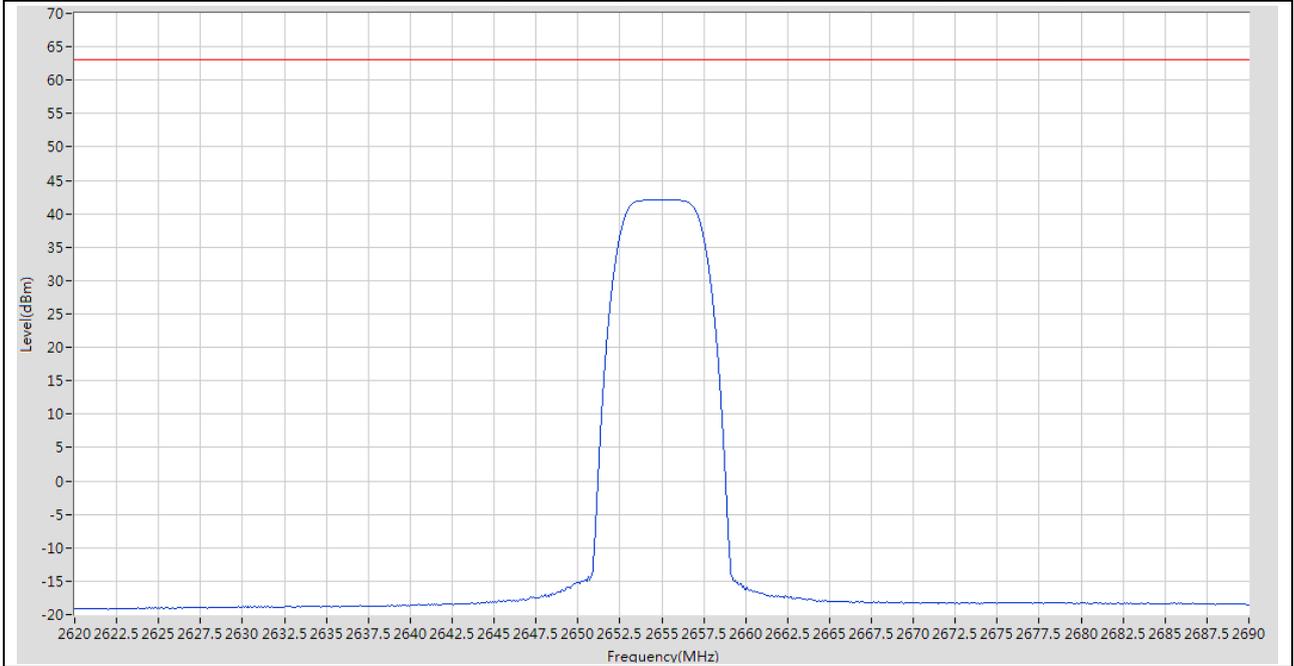
2.1.1 1L_5M_B





2.1.2 1L_5M_M

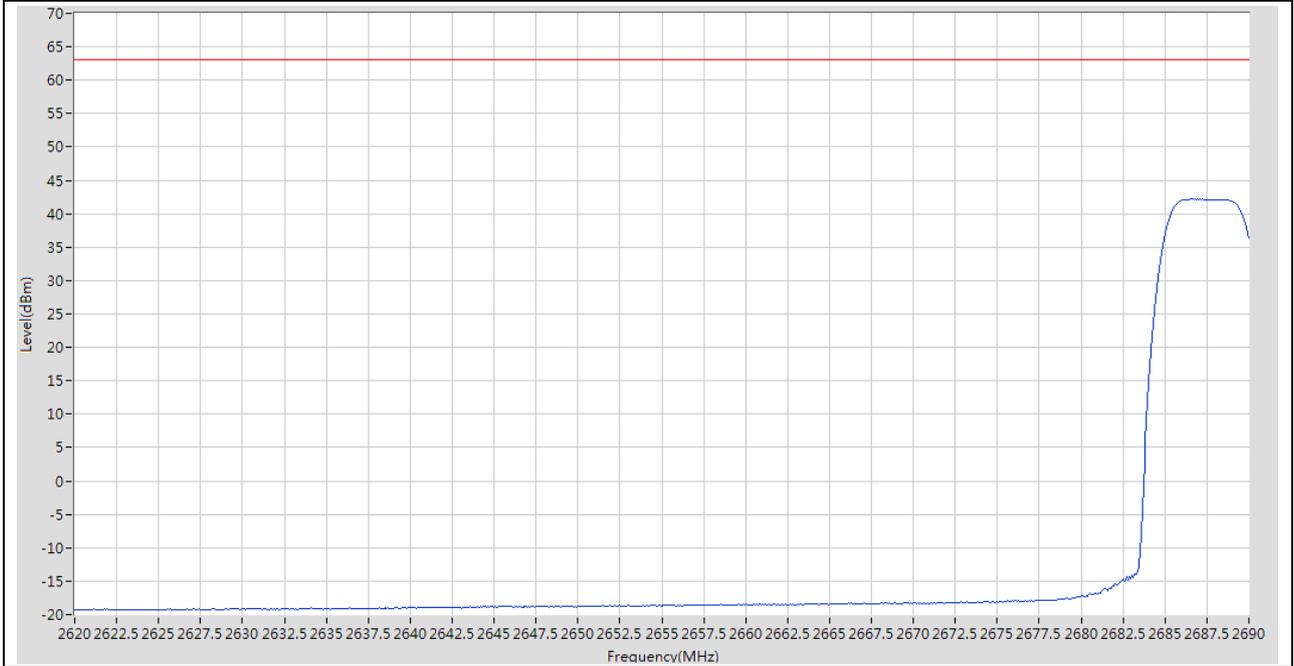
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	RMS	2654.58 M	42.02	63	Pass	1001





2.1.3 1L_5M_T

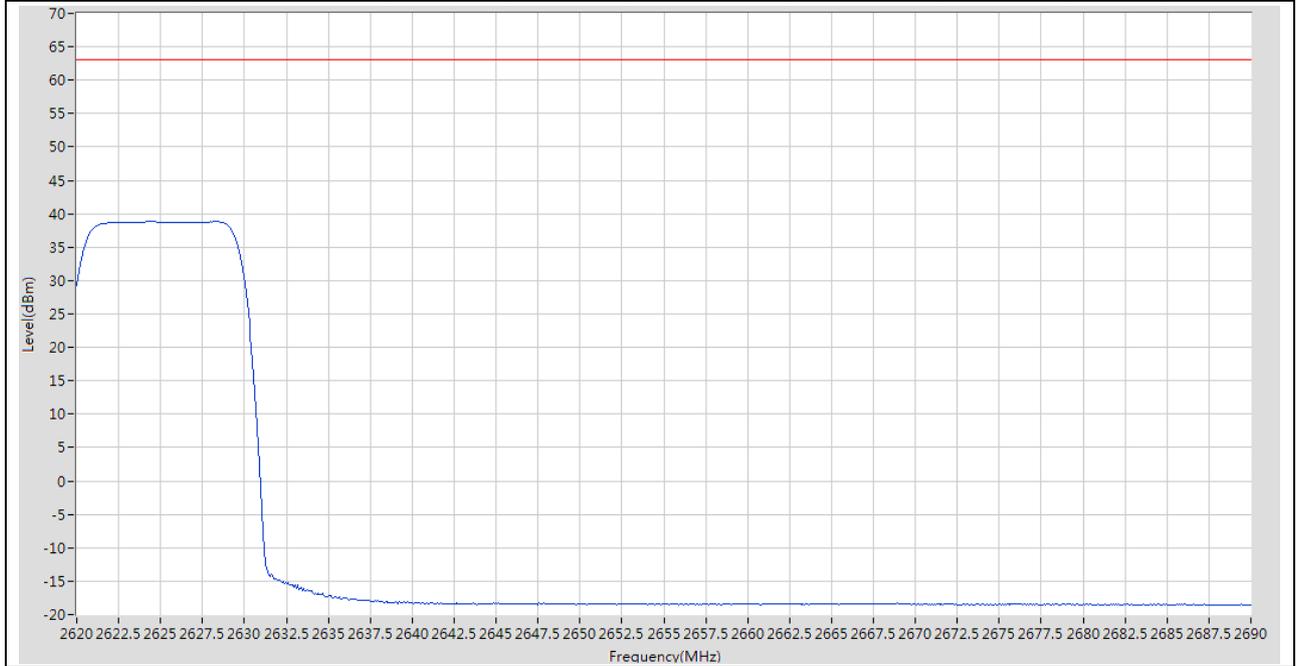
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	RMS	2686.64 M	42.17	63	Pass	1001





2.1.4 1L_10M_B

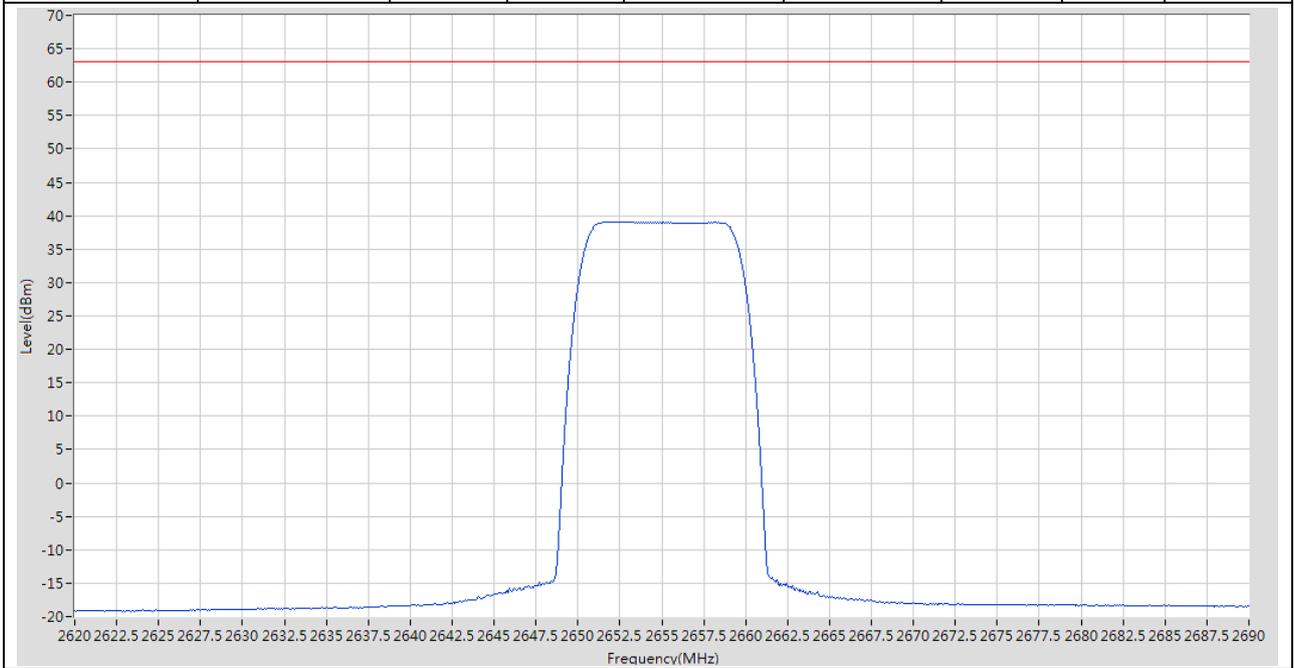
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	RMS	2628.26 M	38.81	63	Pass	1001





2.1.5 1L_10M_M

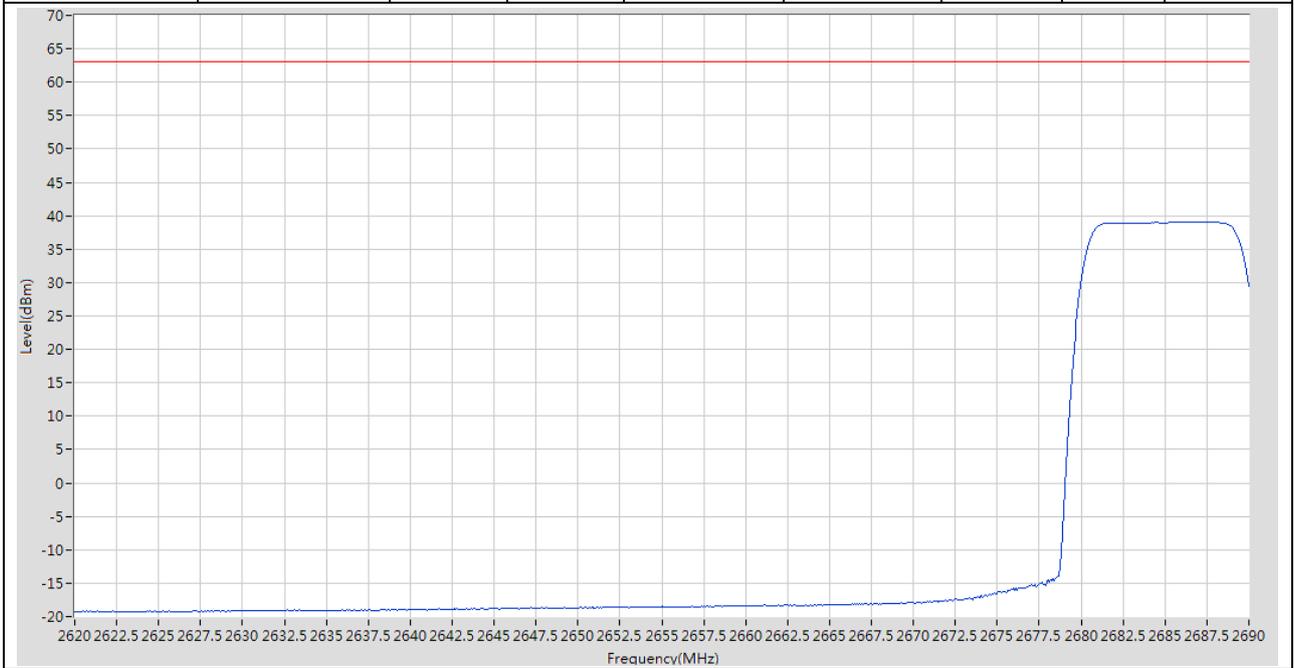
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	RMS	2651.92 M	39.06	63	Pass	1001





2.1.6 1L_10M_T

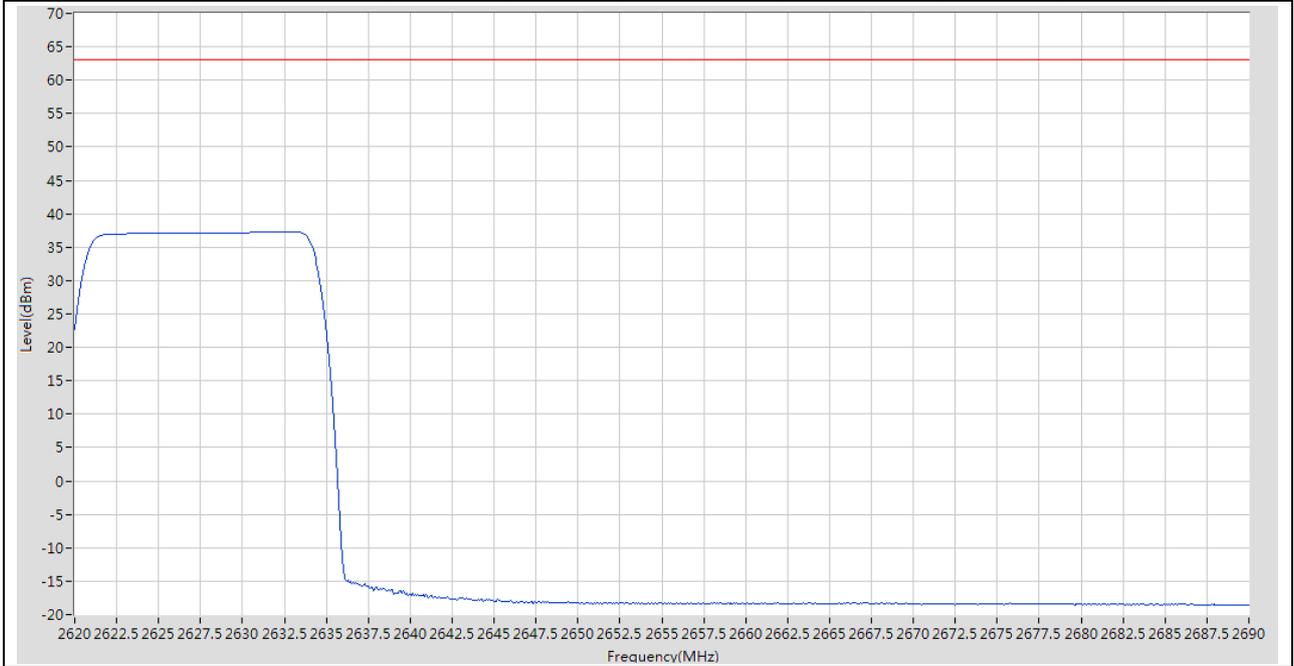
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	RMS	2686.01 M	39.04	63	Pass	1001





2.1.7 1L_15M_B

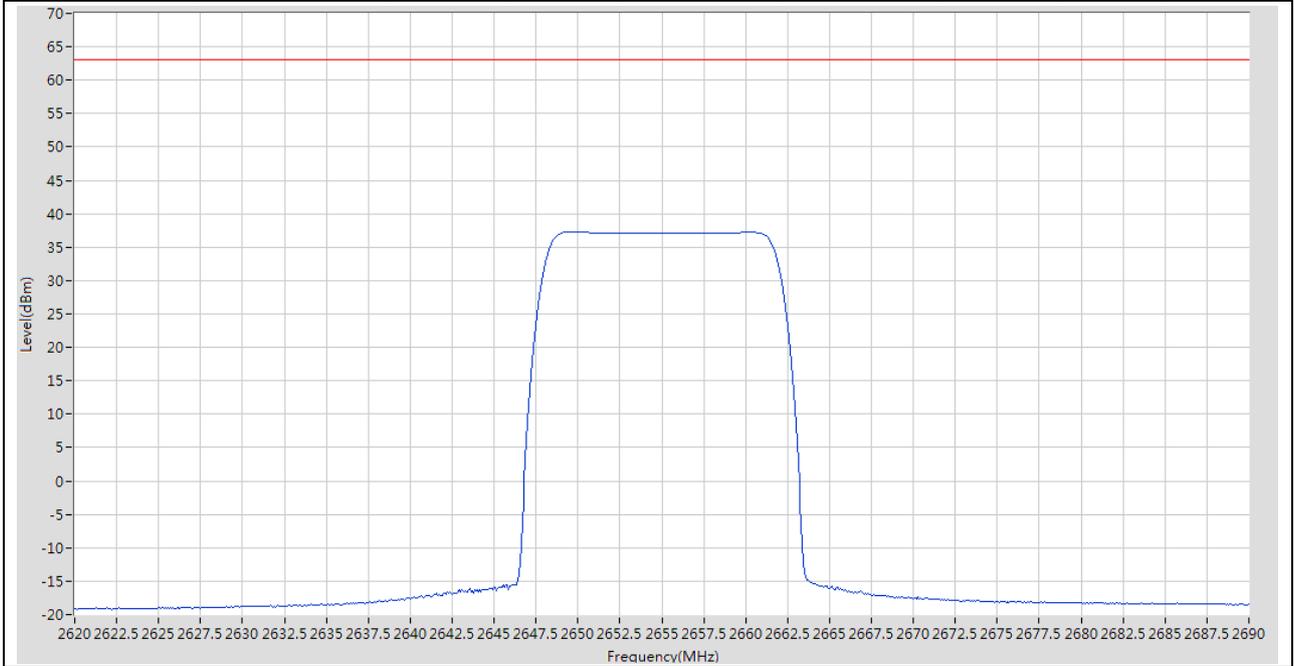
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	RMS	2632.74 M	37.33	63	Pass	1001





2.1.8 1L_15M_M

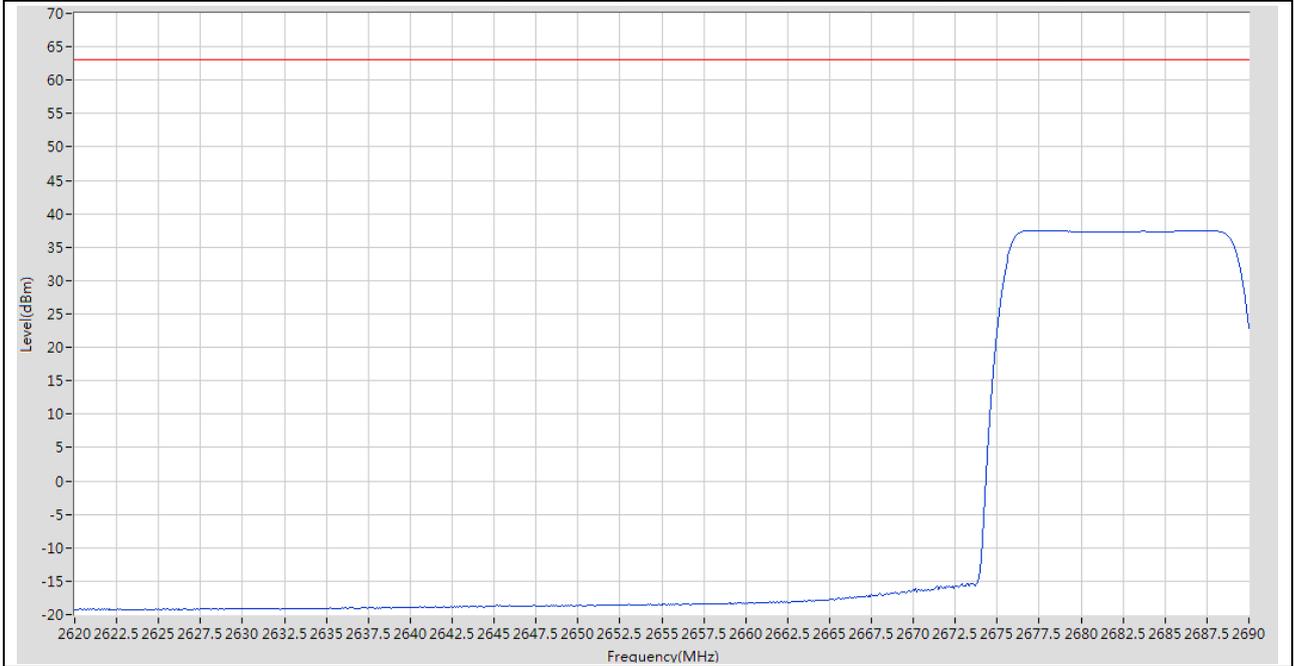
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	RMS	2649.54 M	37.26	63	Pass	1001





2.1.9 1L_15M_T

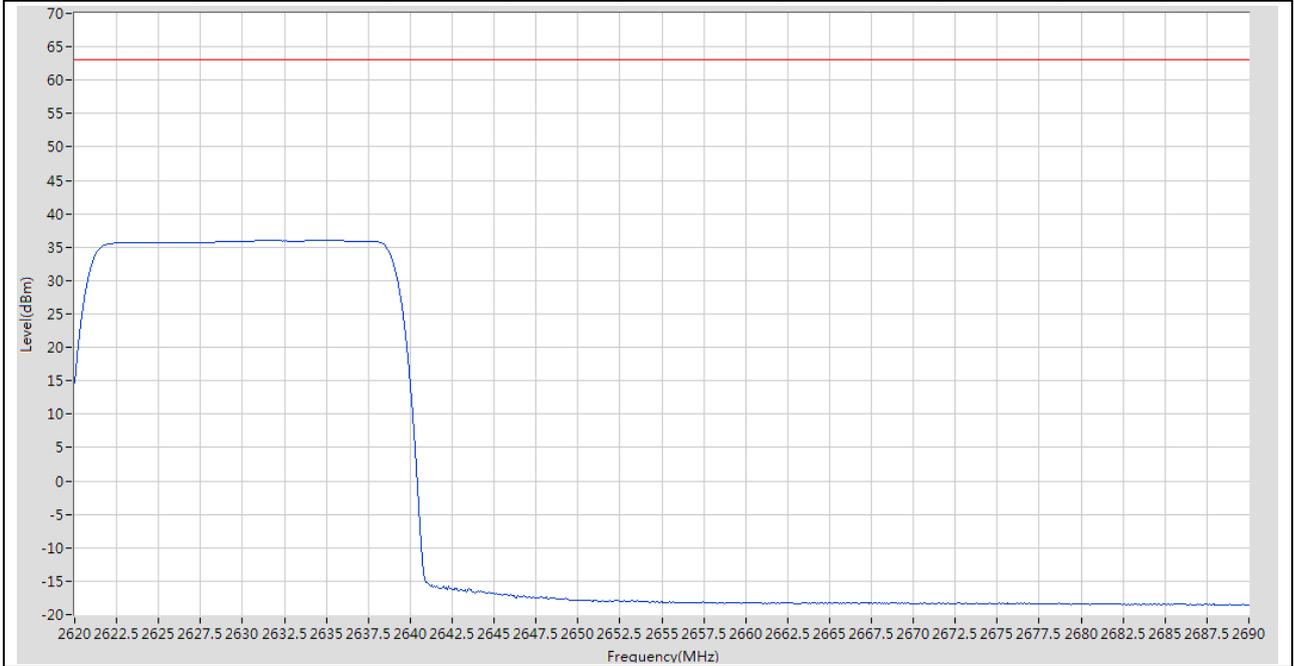
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	RMS	2676.98 M	37.5	63	Pass	1001





2.1.10 1L_20M_B

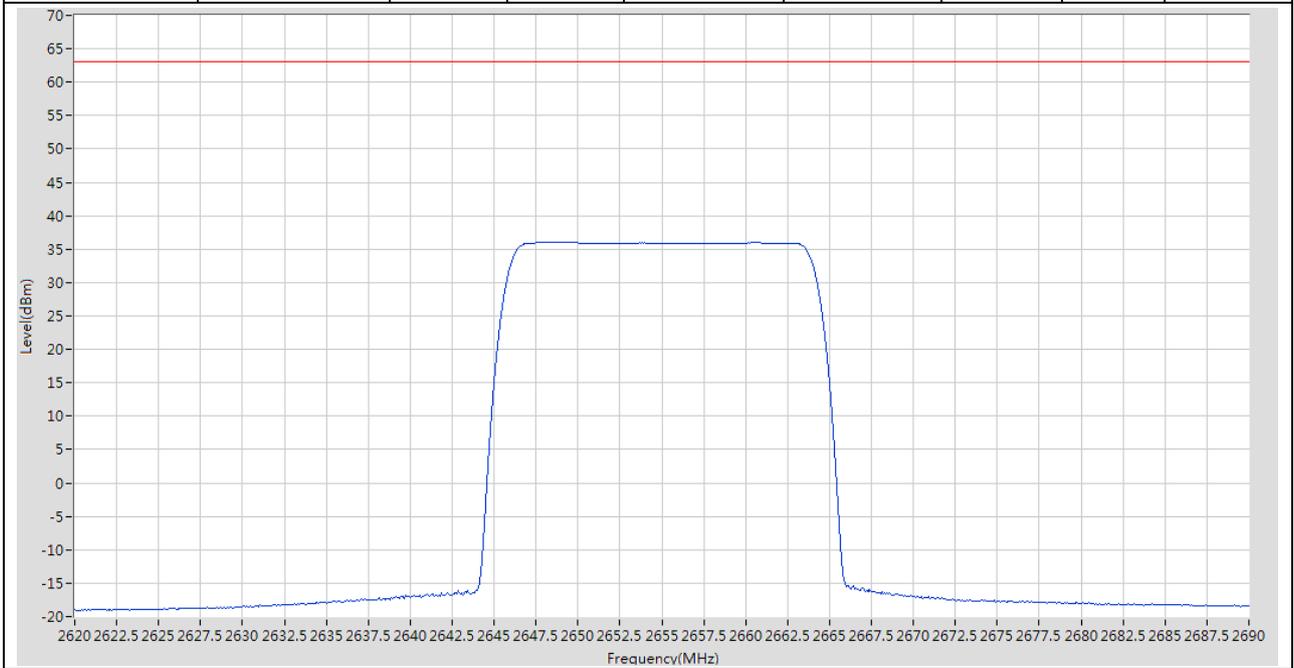
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	RMS	2631.34 M	35.97	63	Pass	1001





2.1.11 1L_20M_M

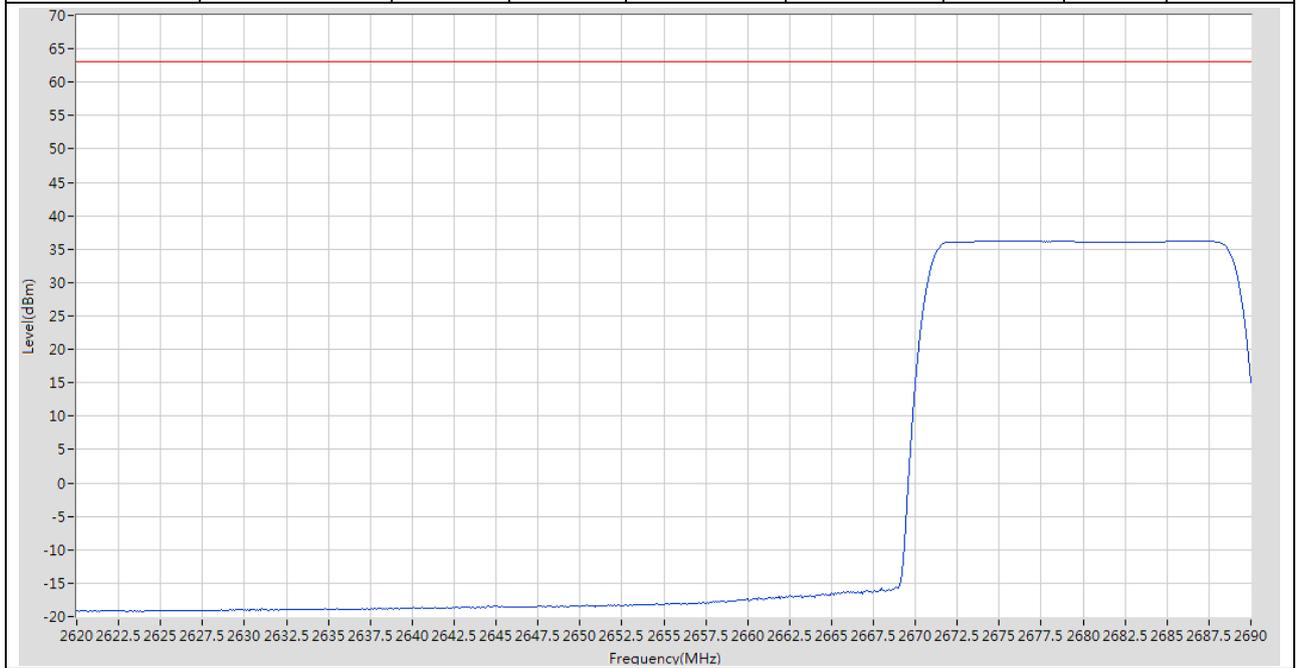
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	RMS	2648 M	35.97	63	Pass	1001





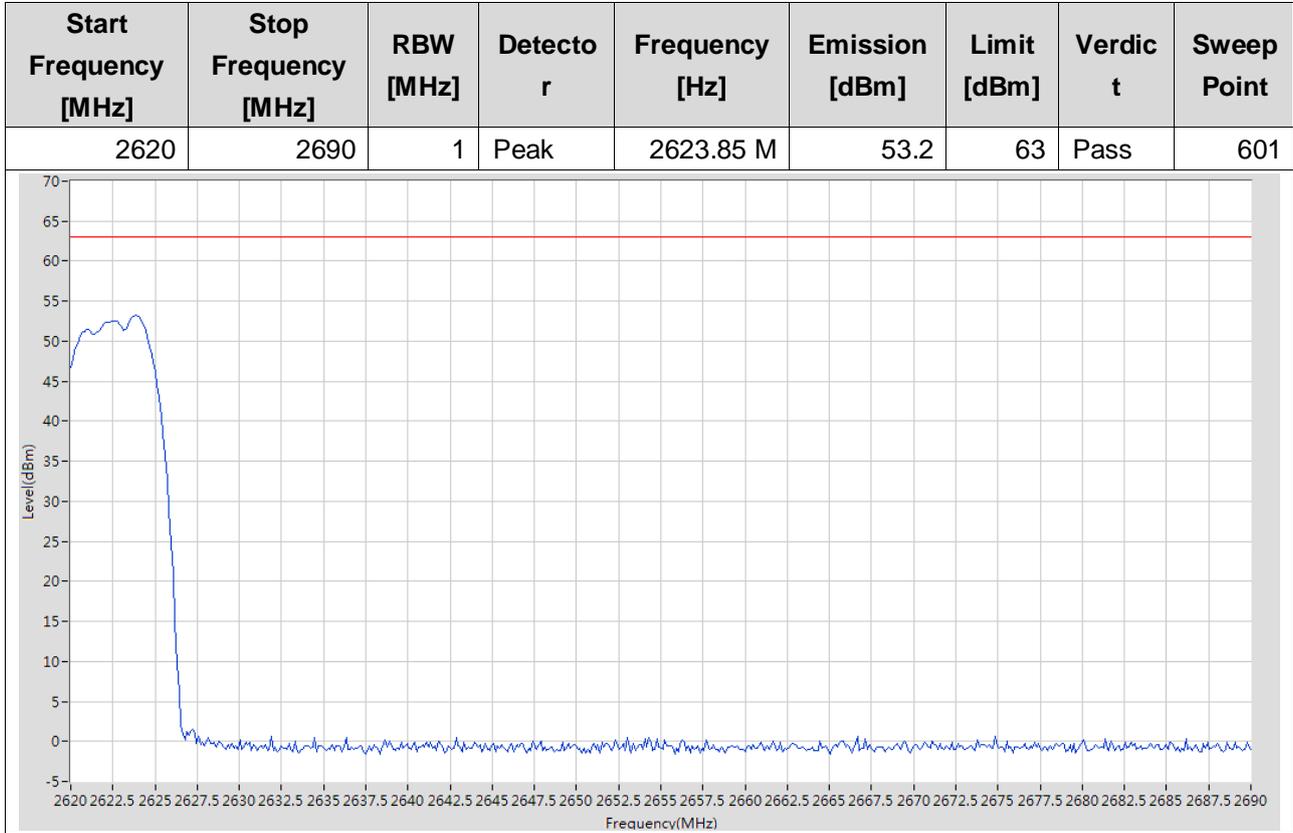
2.1.12 1L_20M_T

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	RMS	2685.94 M	36.23	63	Pass	1001



2.2 Power Spectral Density with peak detector

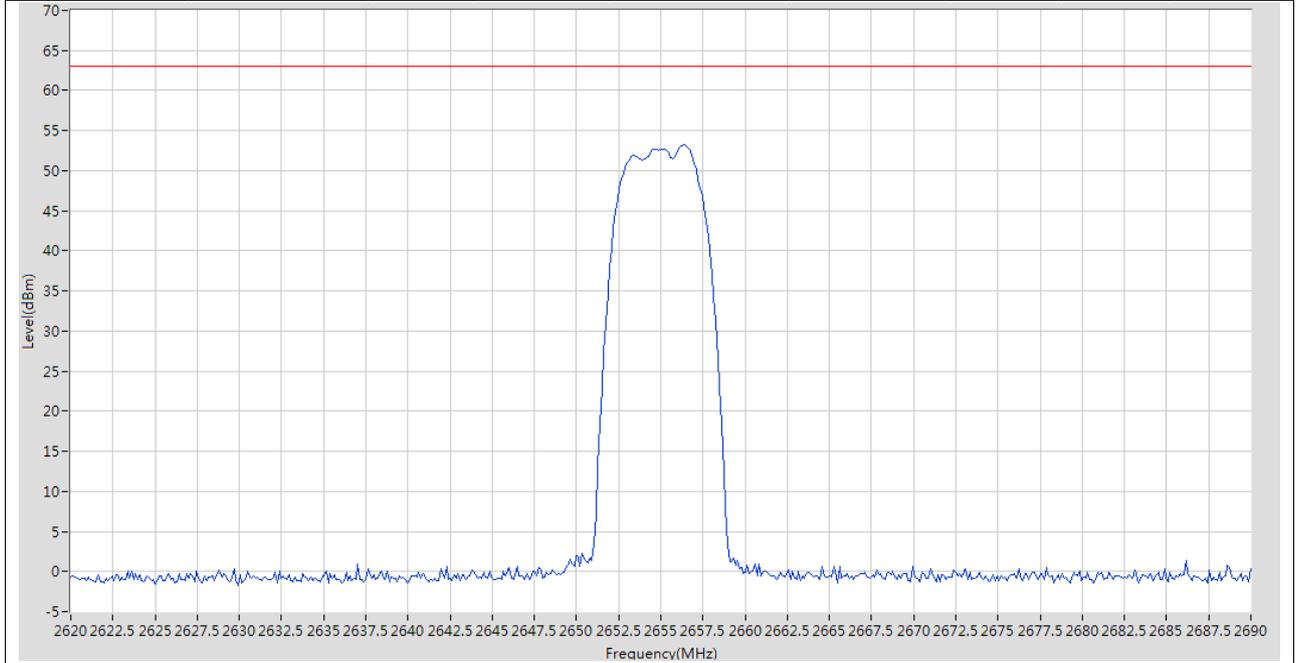
2.2.1 1L_5M_B





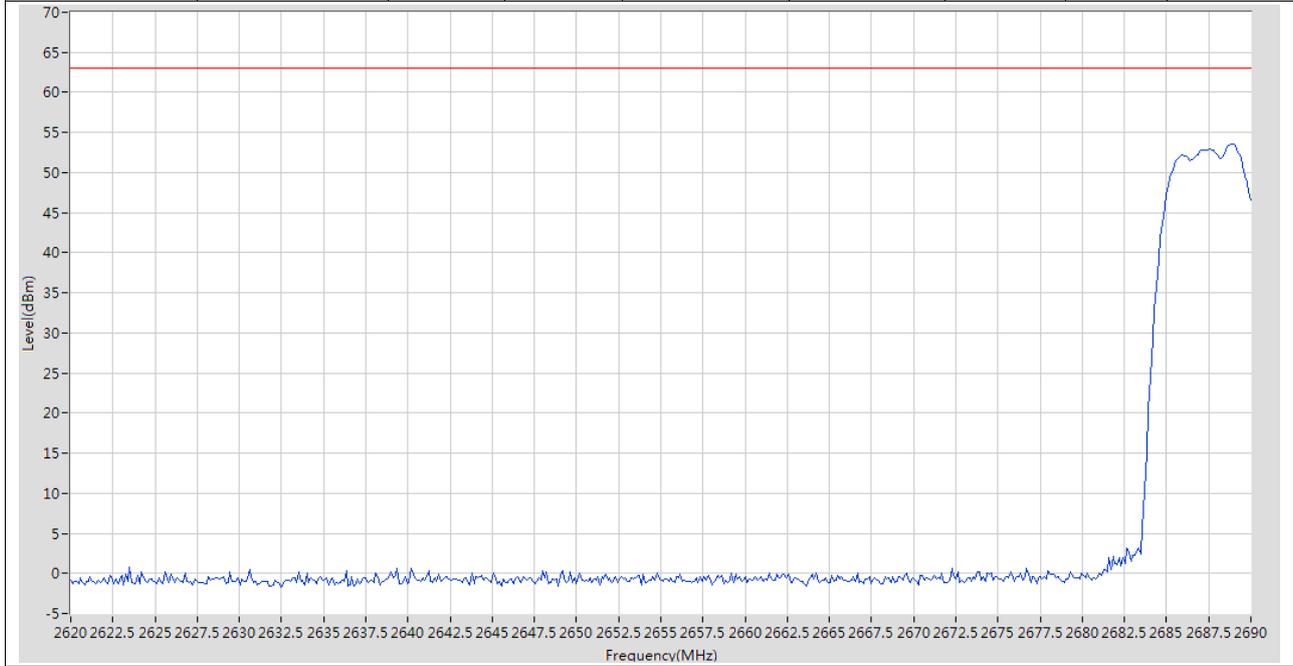
2.2.2 1L_5M_M

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	Peak	2656.4 M	53.18	63	Pass	601



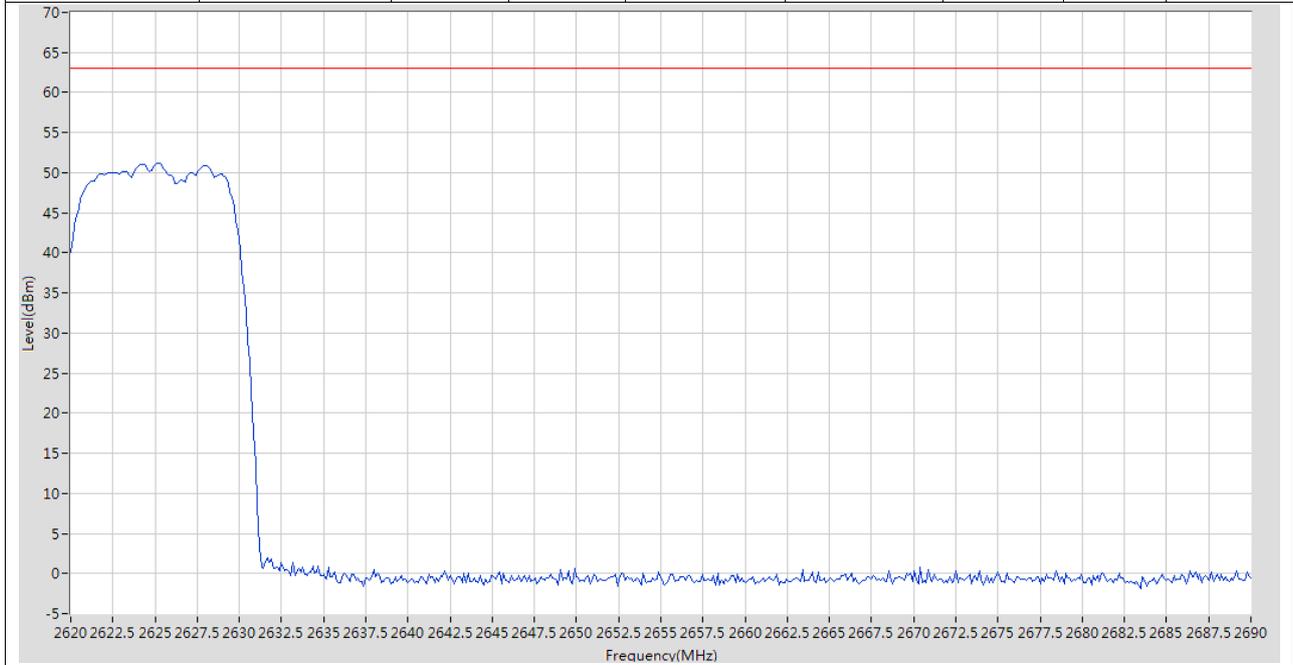
2.2.3 1L_5M_T

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	Peak	2688.8333 33 M	53.53	63	Pass	601



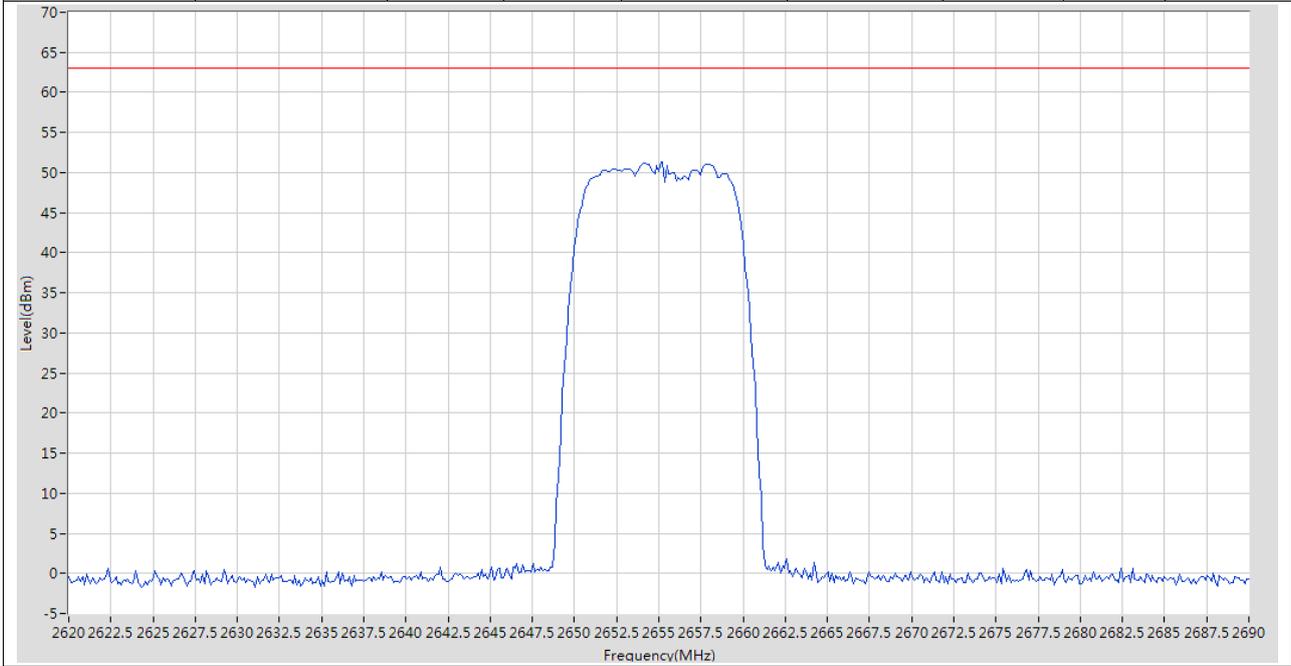
2.2.4 1L_10M_B

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	Peak	2625.25 M	51.13	63	Pass	601



2.2.5 1L_10M_M

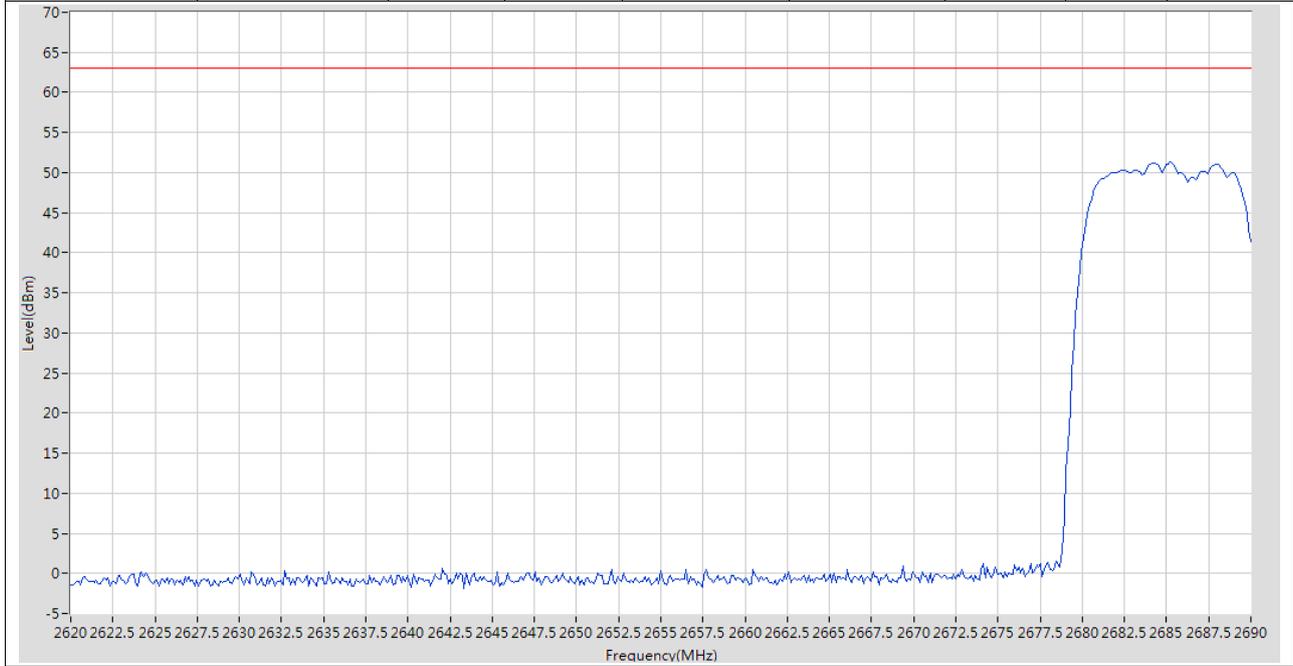
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	Peak	2655.1166 67 M	51.27	63	Pass	601





2.2.6 1L_10M_T

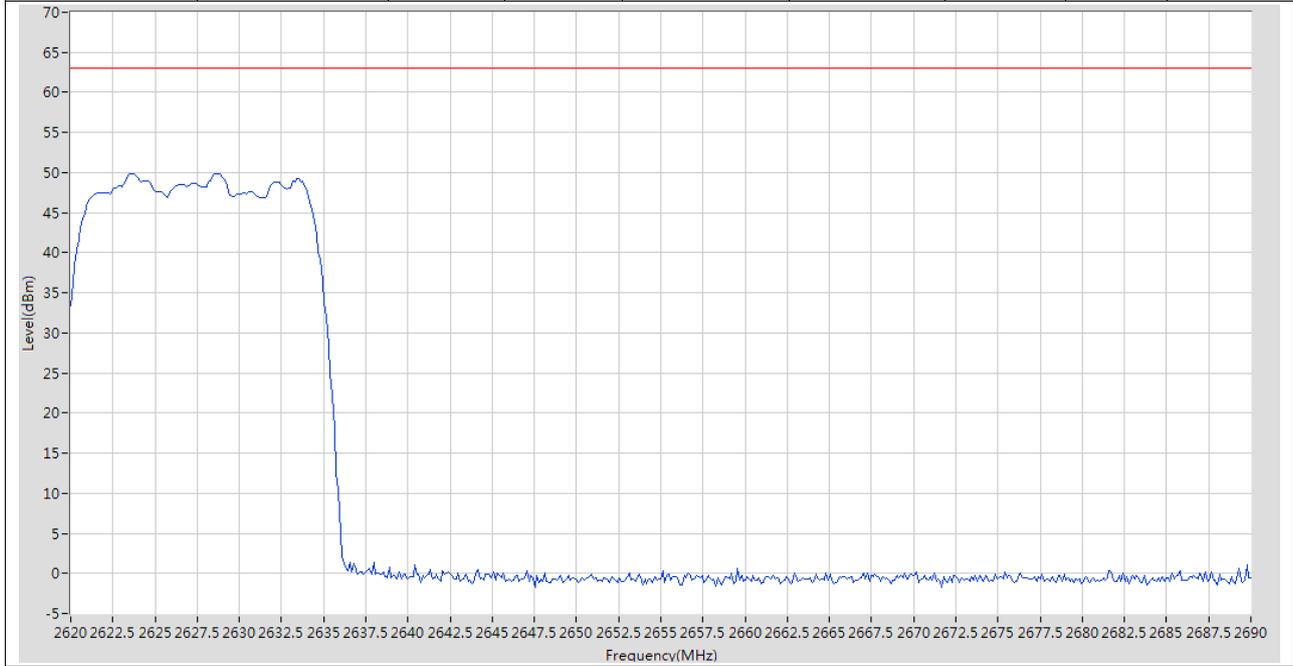
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	Peak	2685.2166 67 M	51.27	63	Pass	601





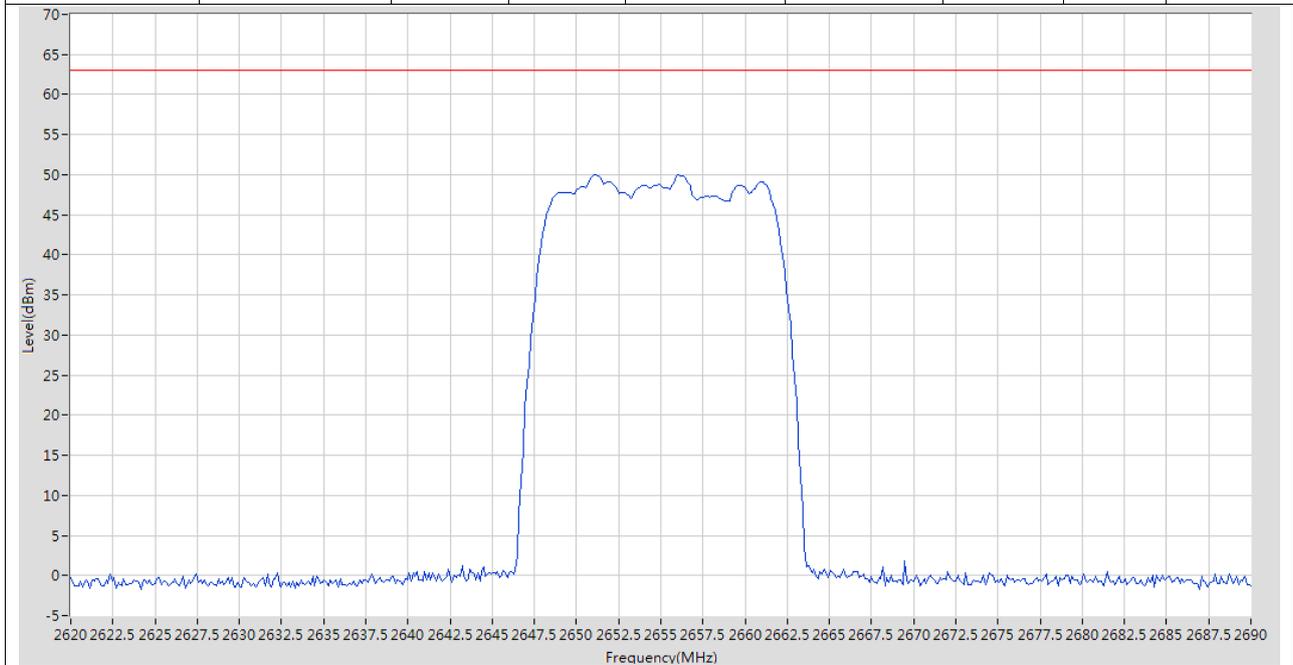
2.2.7 1L_15M_B

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	Peak	2628.6333 33 M	49.91	63	Pass	601



2.2.8 1L_15M_M

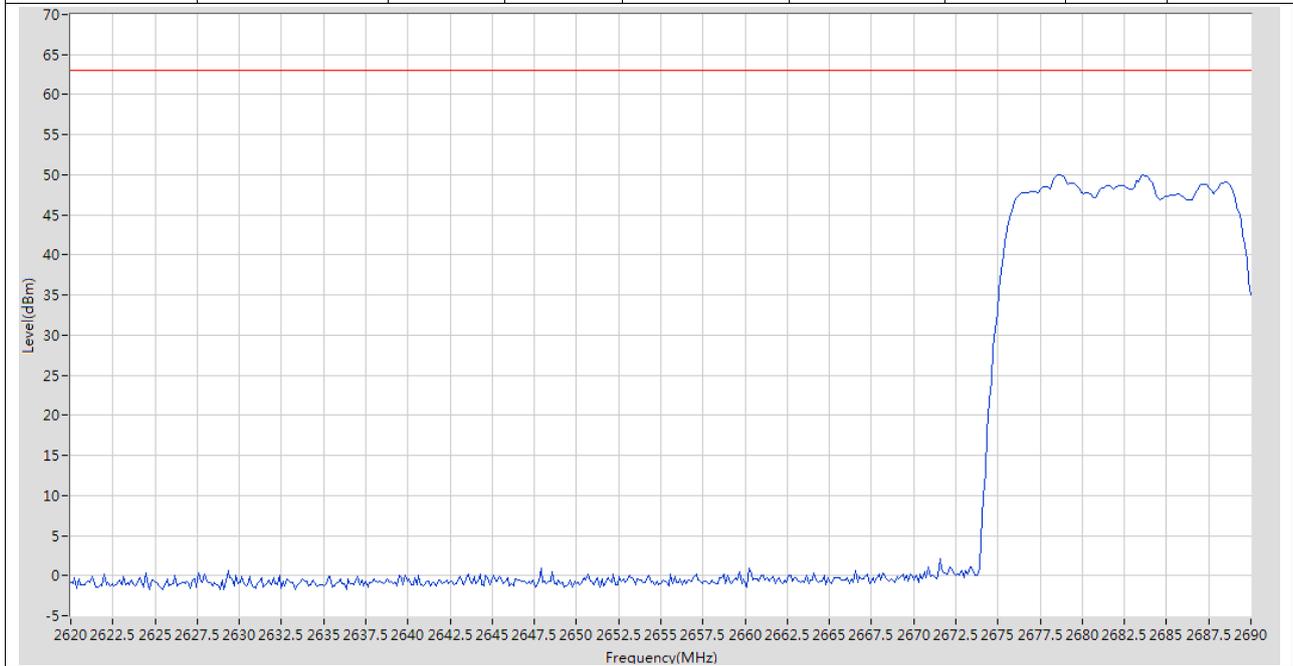
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	Peak	2651.15 M	49.96	63	Pass	601



2.2.9 1L_15M_T

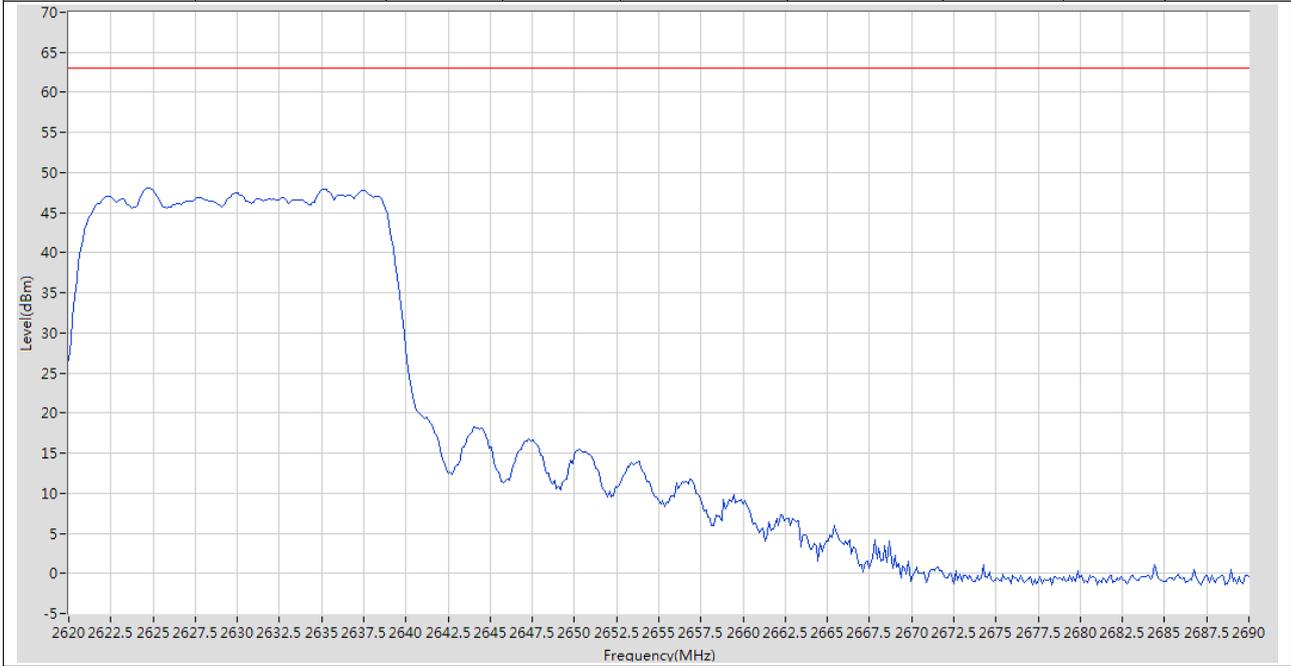


Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	Peak	2678.6833 33 M	50	63	Pass	601

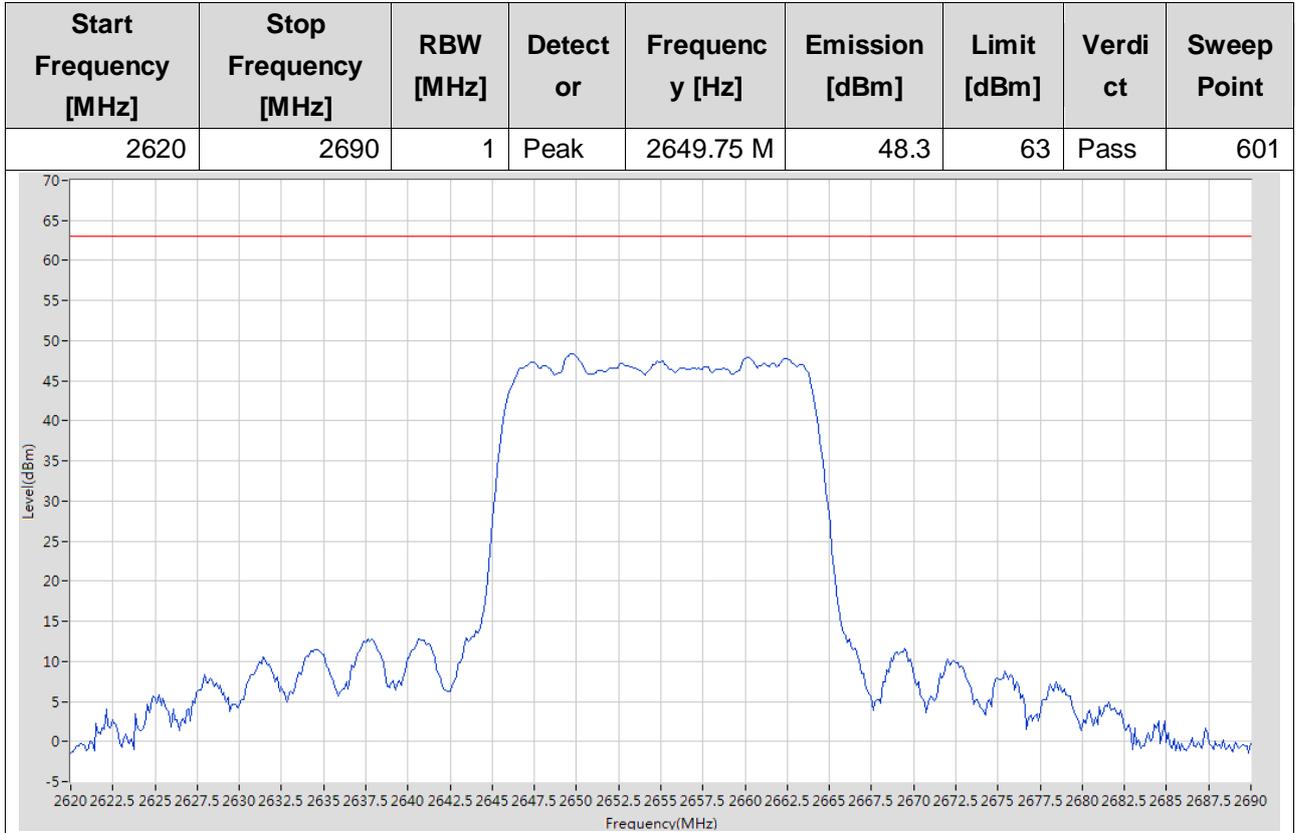


2.2.10 1L_20M_B

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	Peak	2624.6666 67 M	48.06	63	Pass	601

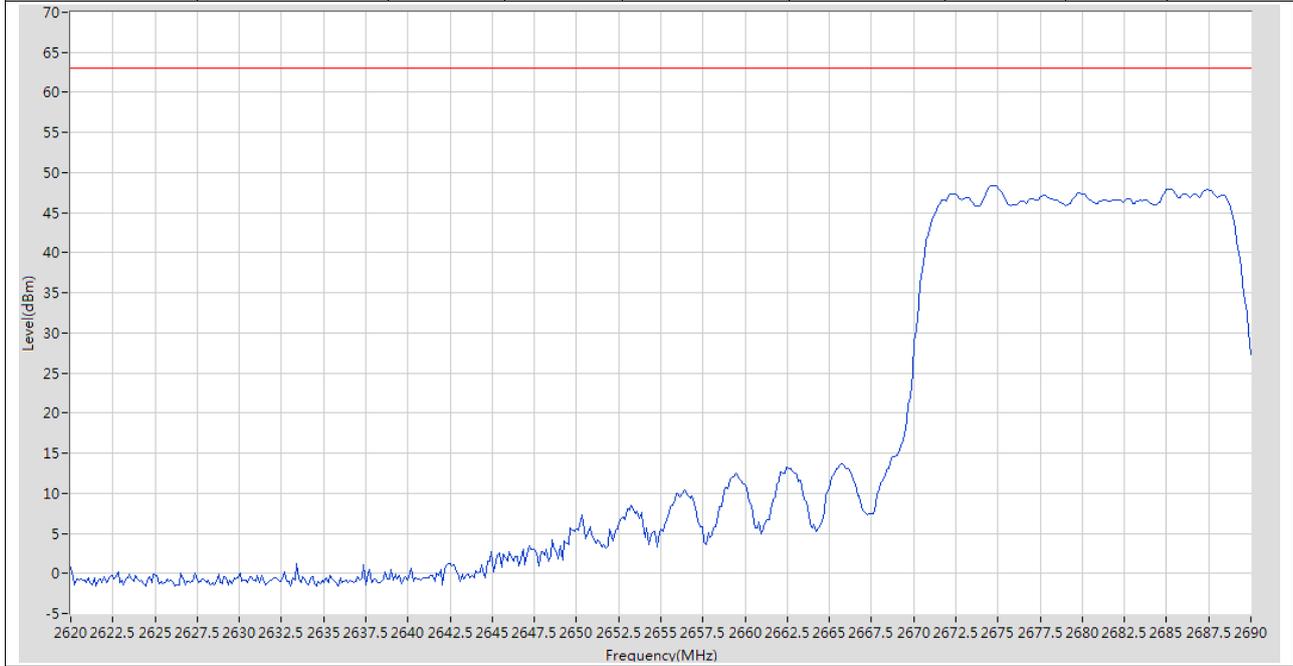


2.2.11 1L_20M_M



2.2.12 1L_20M_T

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	Peak	2674.7166 67 M	48.38	63	Pass	601





Appendix B: Bandwidth



1 Result Table

1.1 Occupied Bandwidth

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
1L_5M_B	4.439066	pass
1L_5M_M	4.420057	pass
1L_5M_T	4.472908	pass
1L_10M_B	8.796347	pass
1L_10M_M	9.037932	pass
1L_10M_T	8.96588	pass
1L_15M_B	13.600804	pass
1L_15M_M	13.225582	pass
1L_15M_T	13.343171	pass
1L_20M_B	17.723577	pass
1L_20M_M	17.874494	pass
1L_20M_T	17.792915	pass

1.2 Emission Bandwidth

EUT Conf.	Emission Bandwidth, -26 dBc [MHz]	Verdict
1L_5M_B	4.813824	pass
1L_5M_M	4.833792	pass
1L_5M_T	4.823808	pass
1L_10M_B	9.55392	pass
1L_10M_M	9.523712	pass
1L_10M_T	9.523712	pass
1L_15M_B	14.261248	pass
1L_15M_M	14.321408	pass
1L_15M_T	14.291456	pass
1L_20M_B	18.847488	pass
1L_20M_M	18.907648	pass
1L_20M_T	18.877696	pass

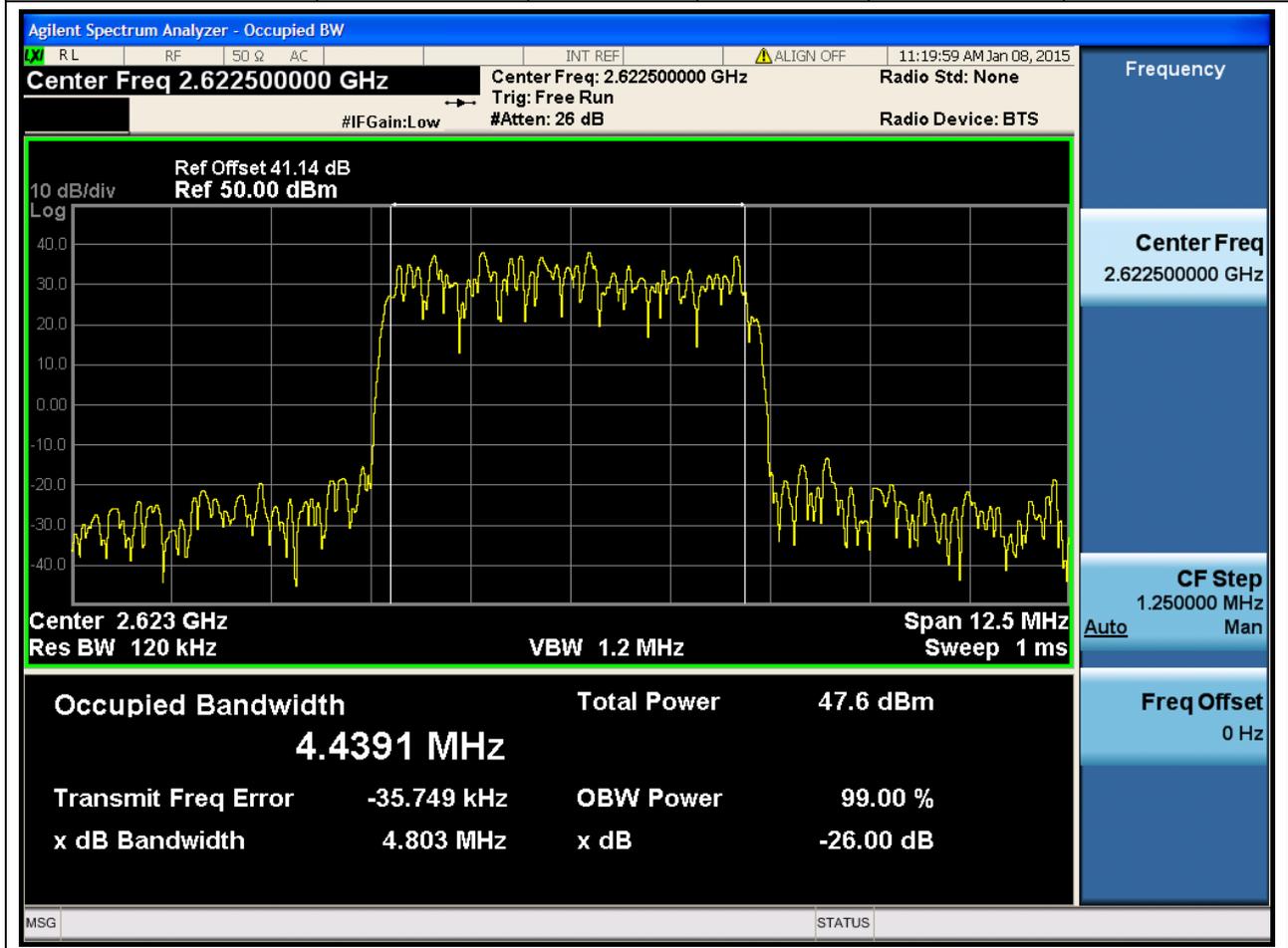


2 Test Plot

2.1 Occupied Bandwidth

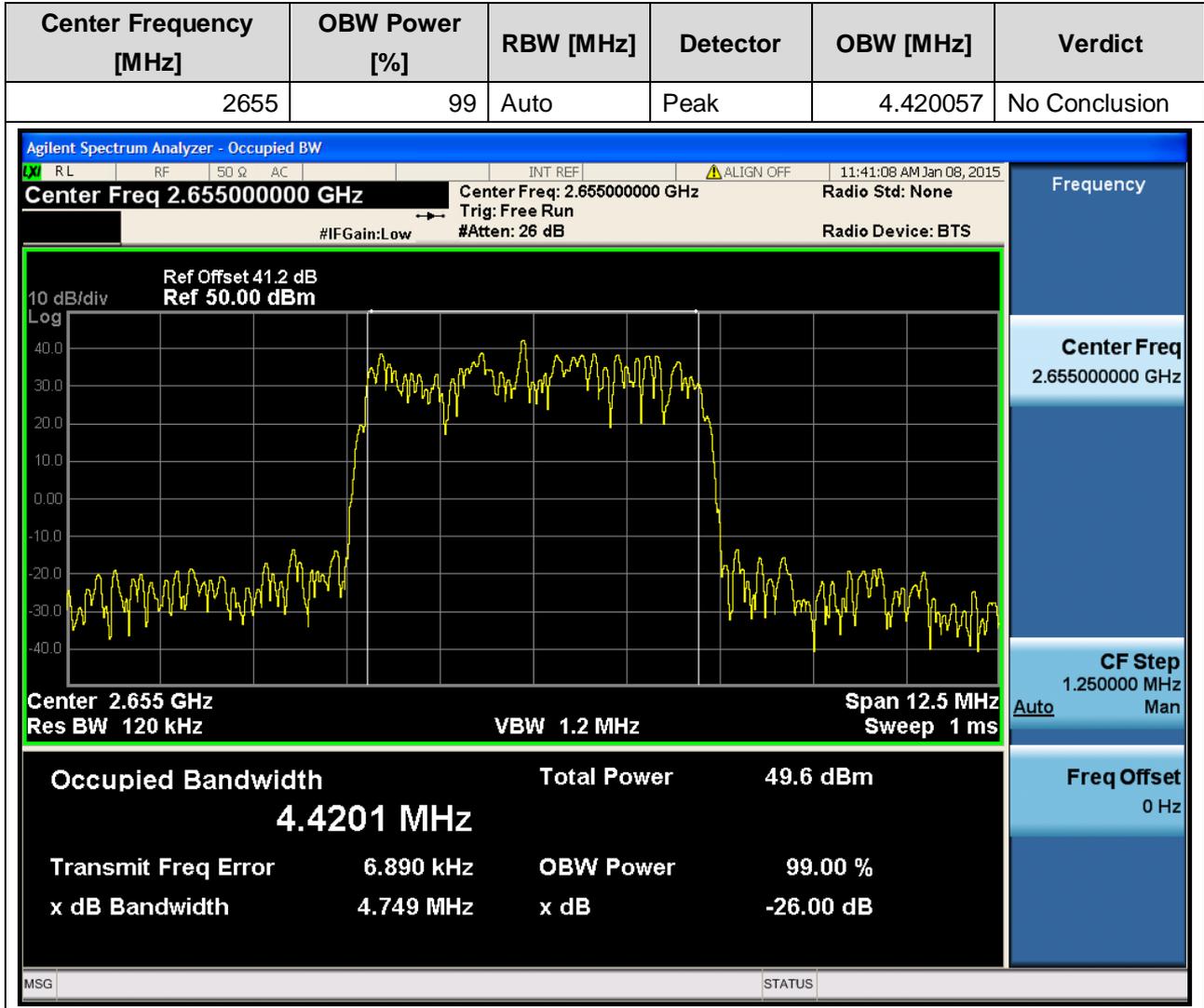
2.1.1 1L_5M_B

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2622.5	99	Auto	Peak	4.439066	No Conclusion



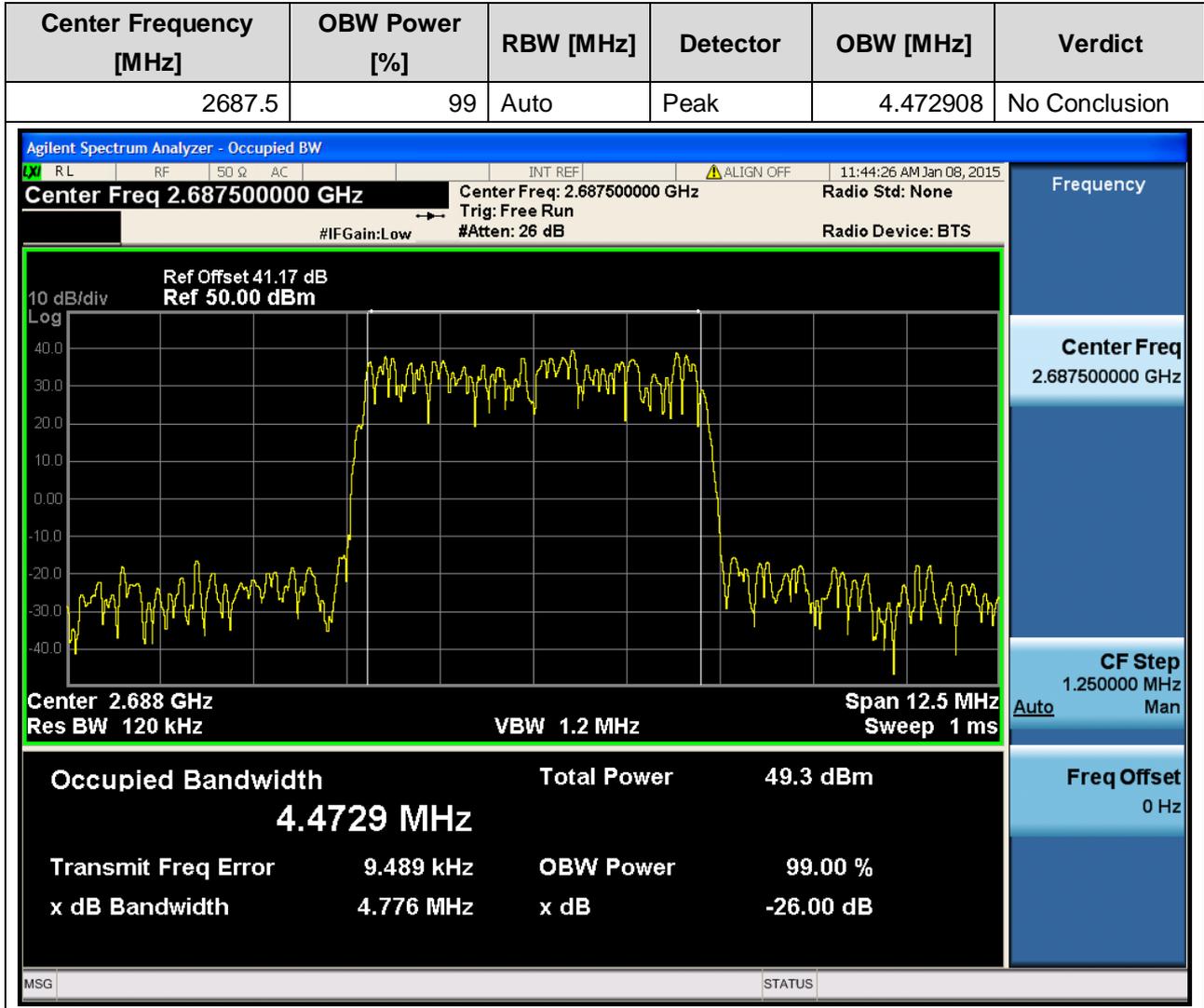


2.1.2 1L_5M_M





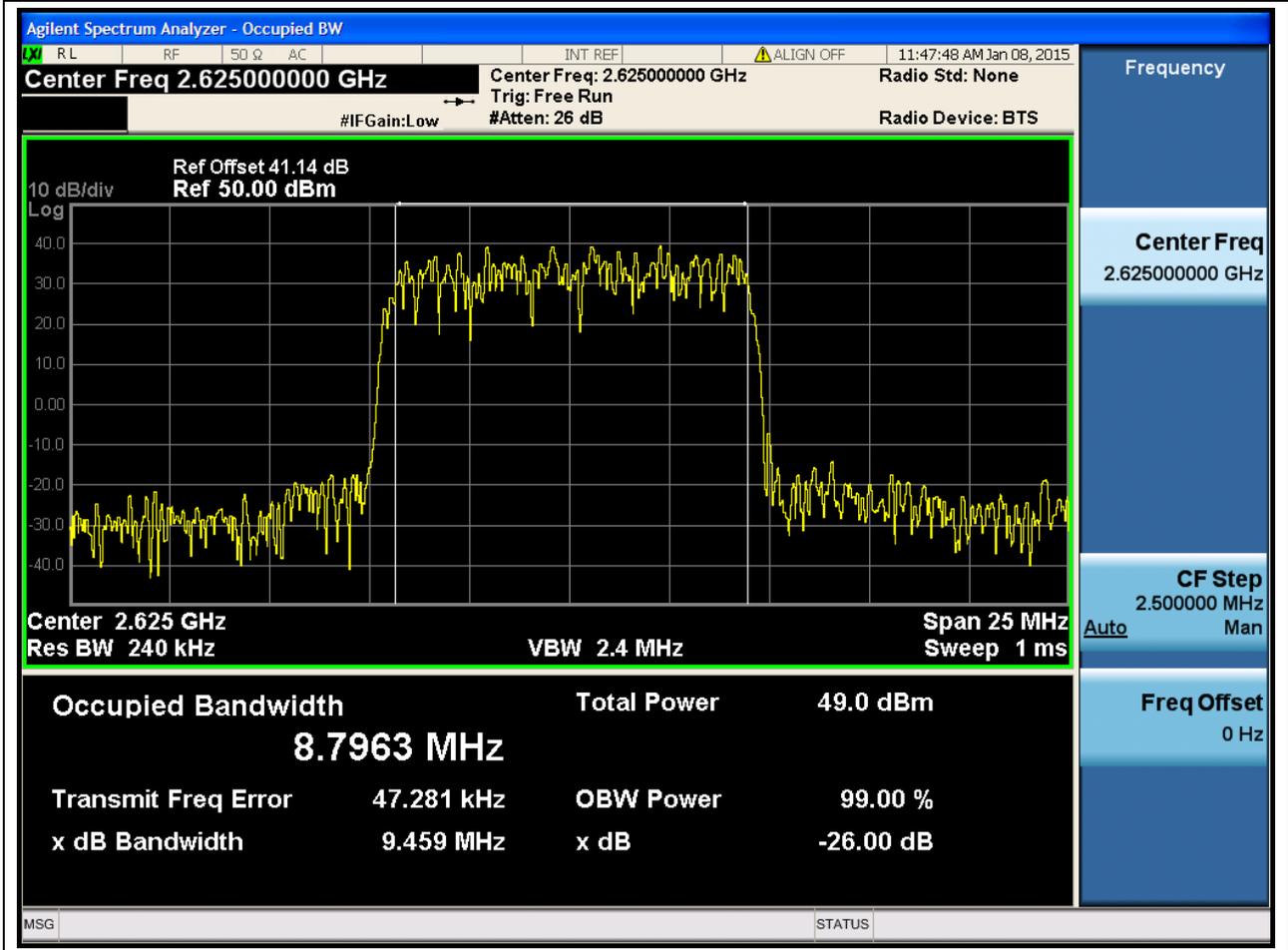
2.1.3 1L_5M_T





2.1.4 1L_10M_B

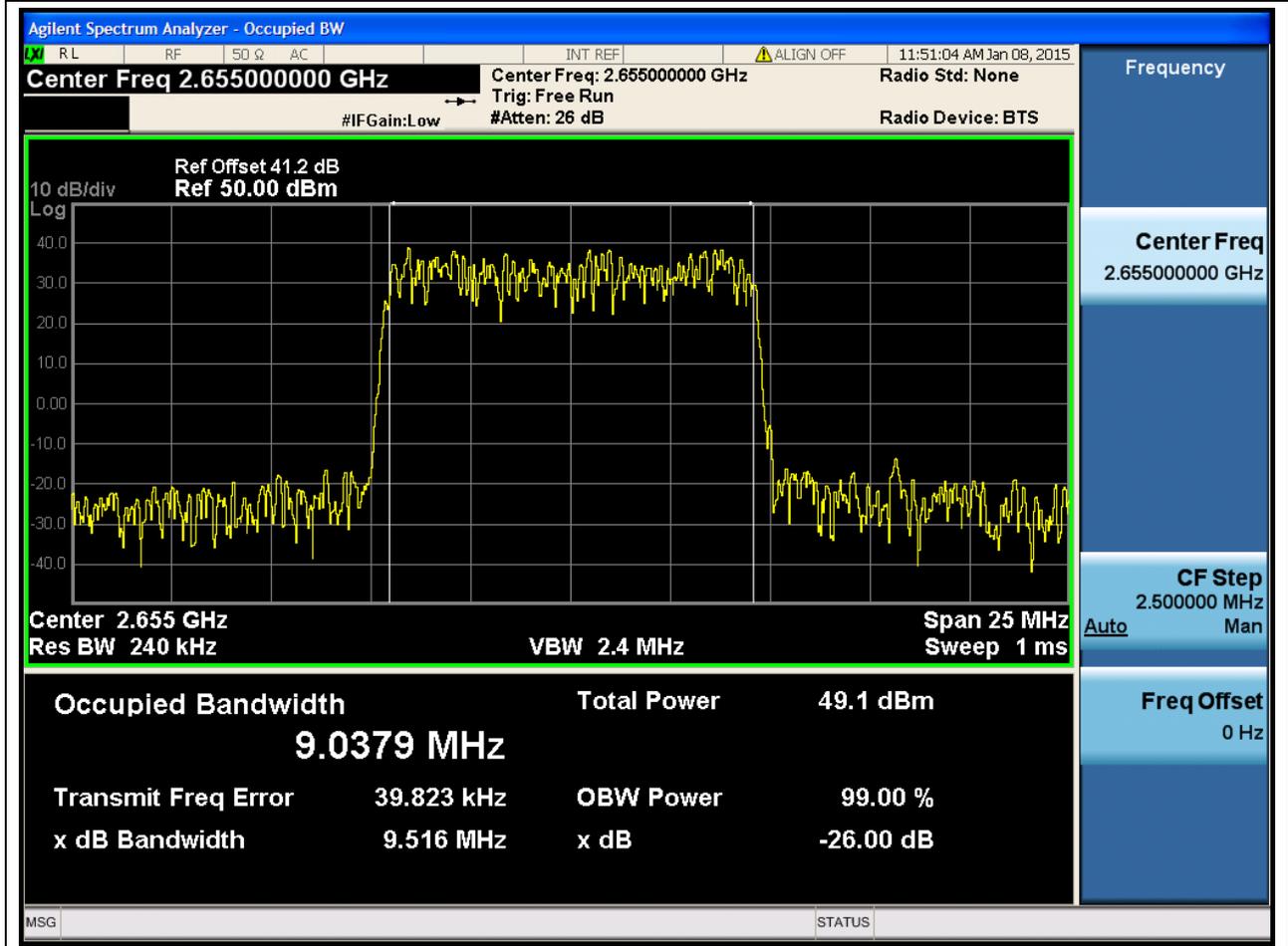
Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2625	99	Auto	Peak	8.796347	No Conclusion





2.1.5 1L_10M_M

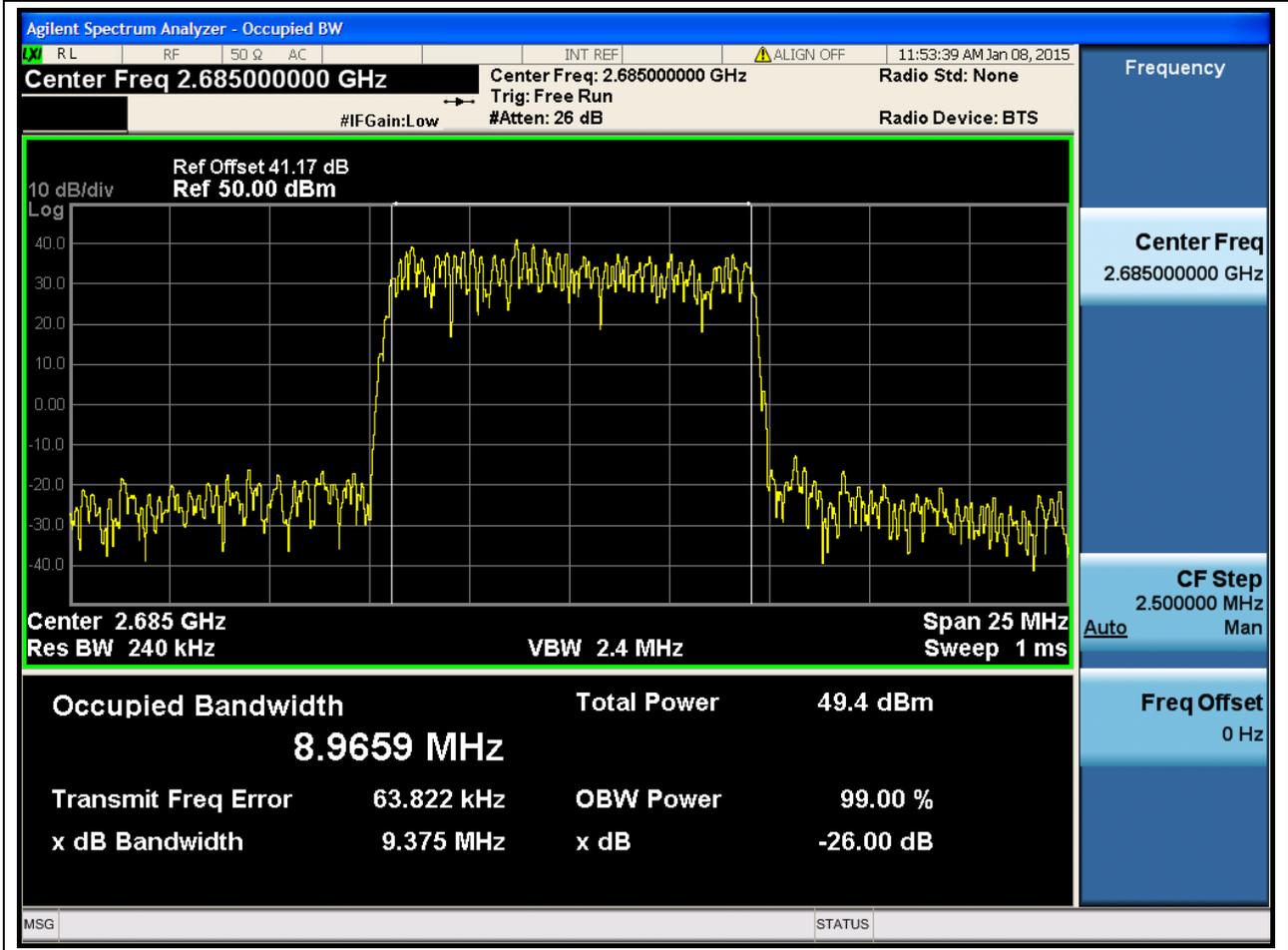
Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2655	99	Auto	Peak	9.037932	No Conclusion





2.1.6 1L_10M_T

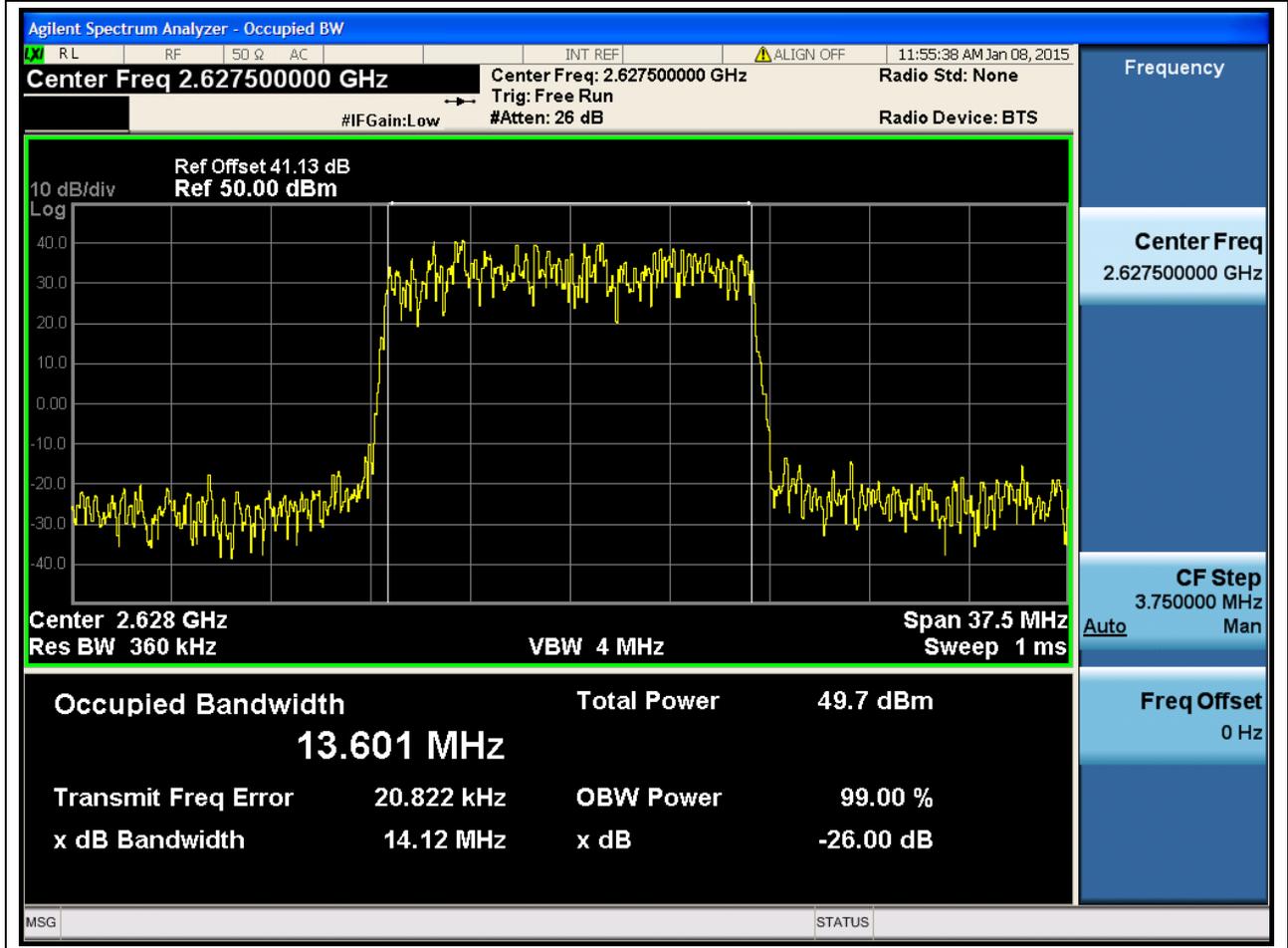
Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2685	99	Auto	Peak	8.96588	No Conclusion





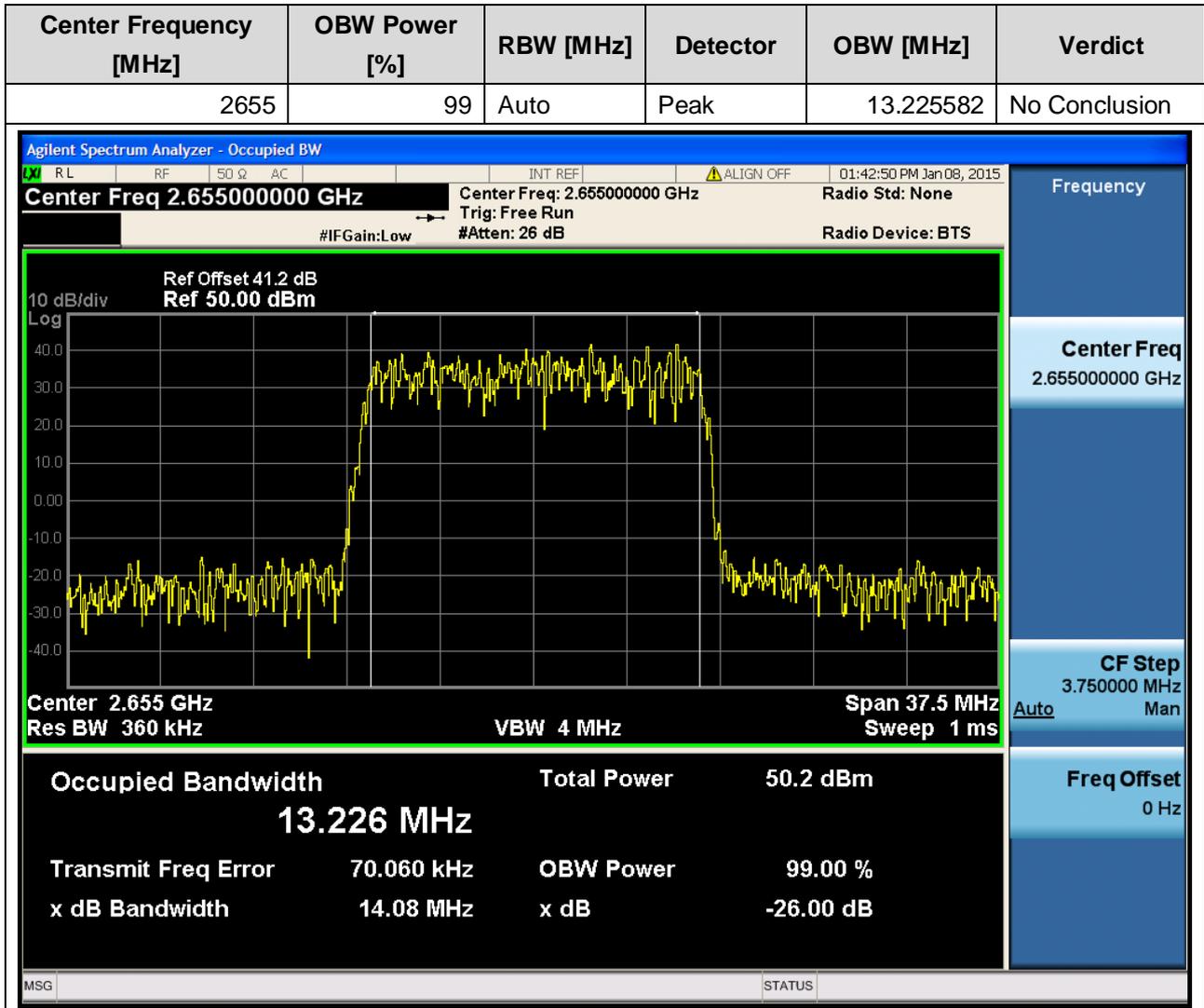
2.1.7 1L_15M_B

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2627.5	99	Auto	Peak	13.600804	No Conclusion



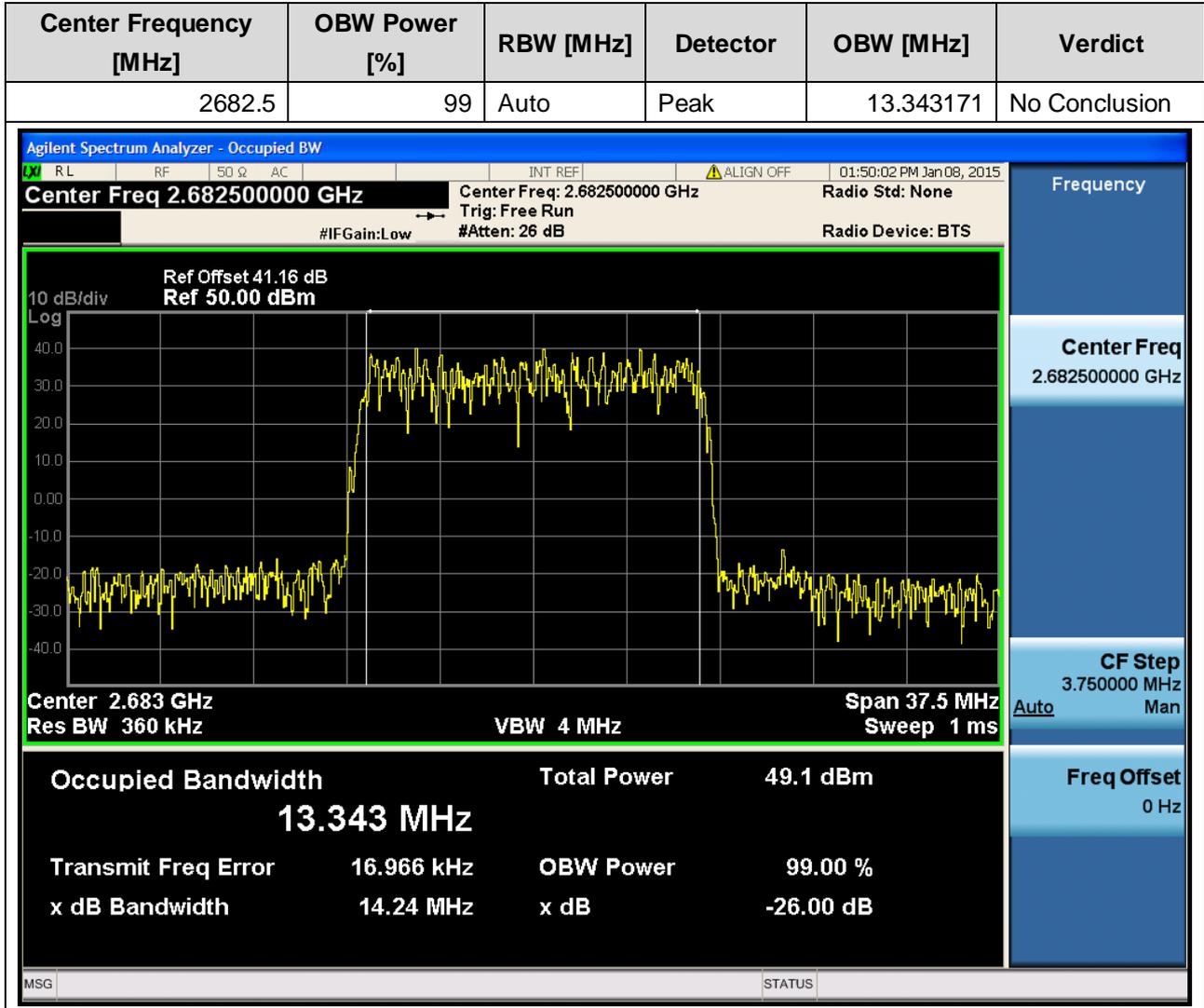


2.1.8 1L_15M_M



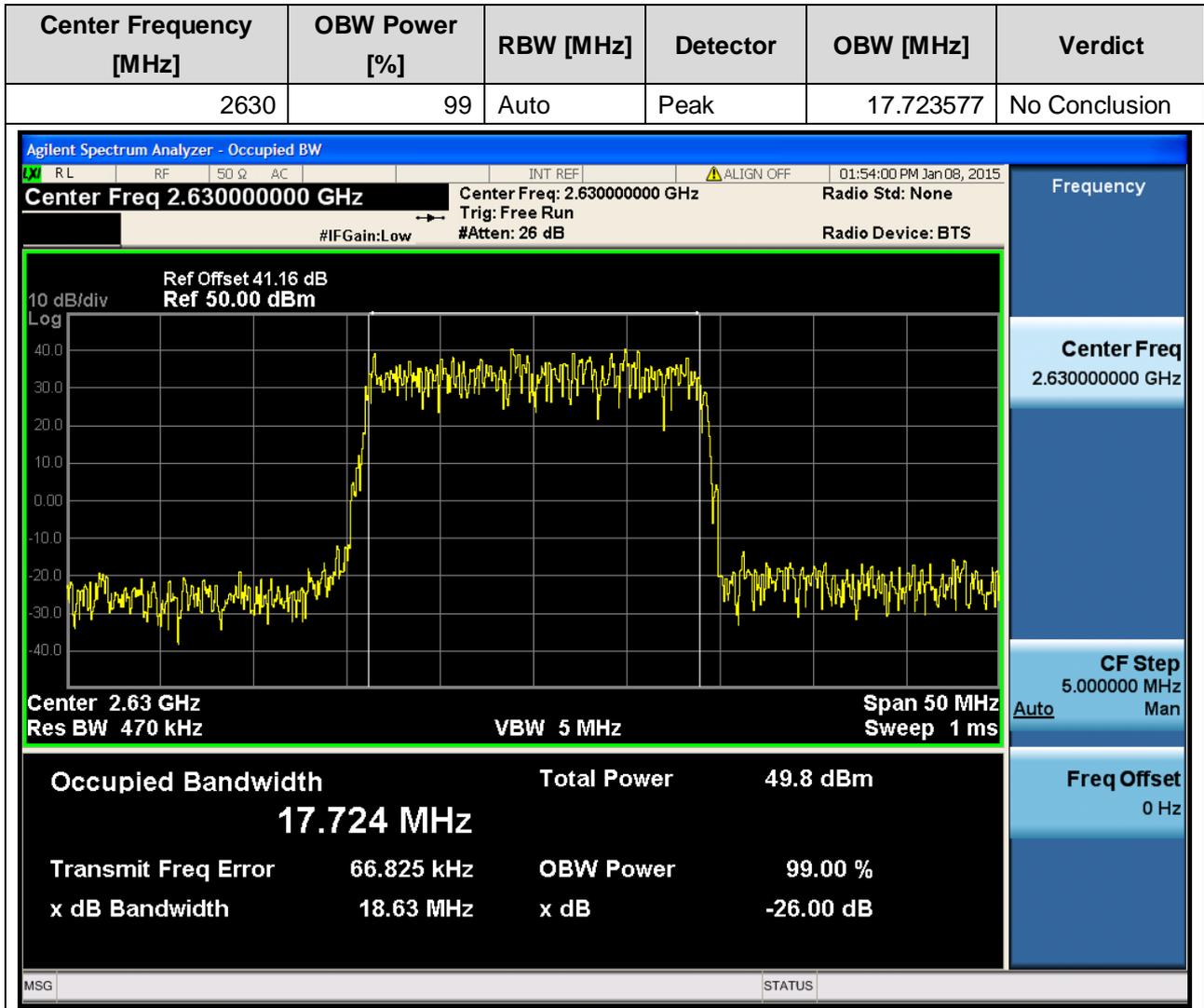


2.1.9 1L_15M_T



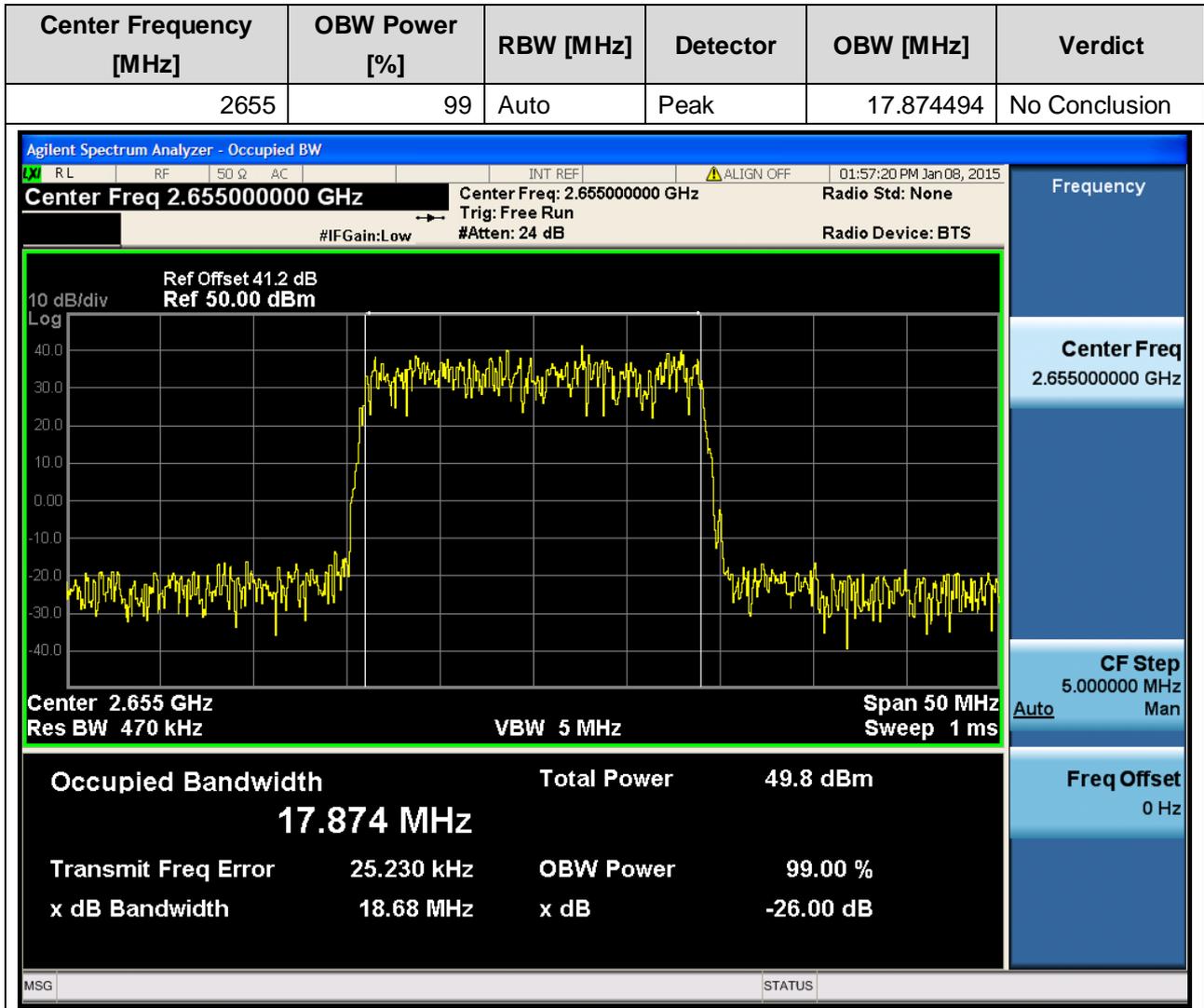


2.1.10 1L_20M_B





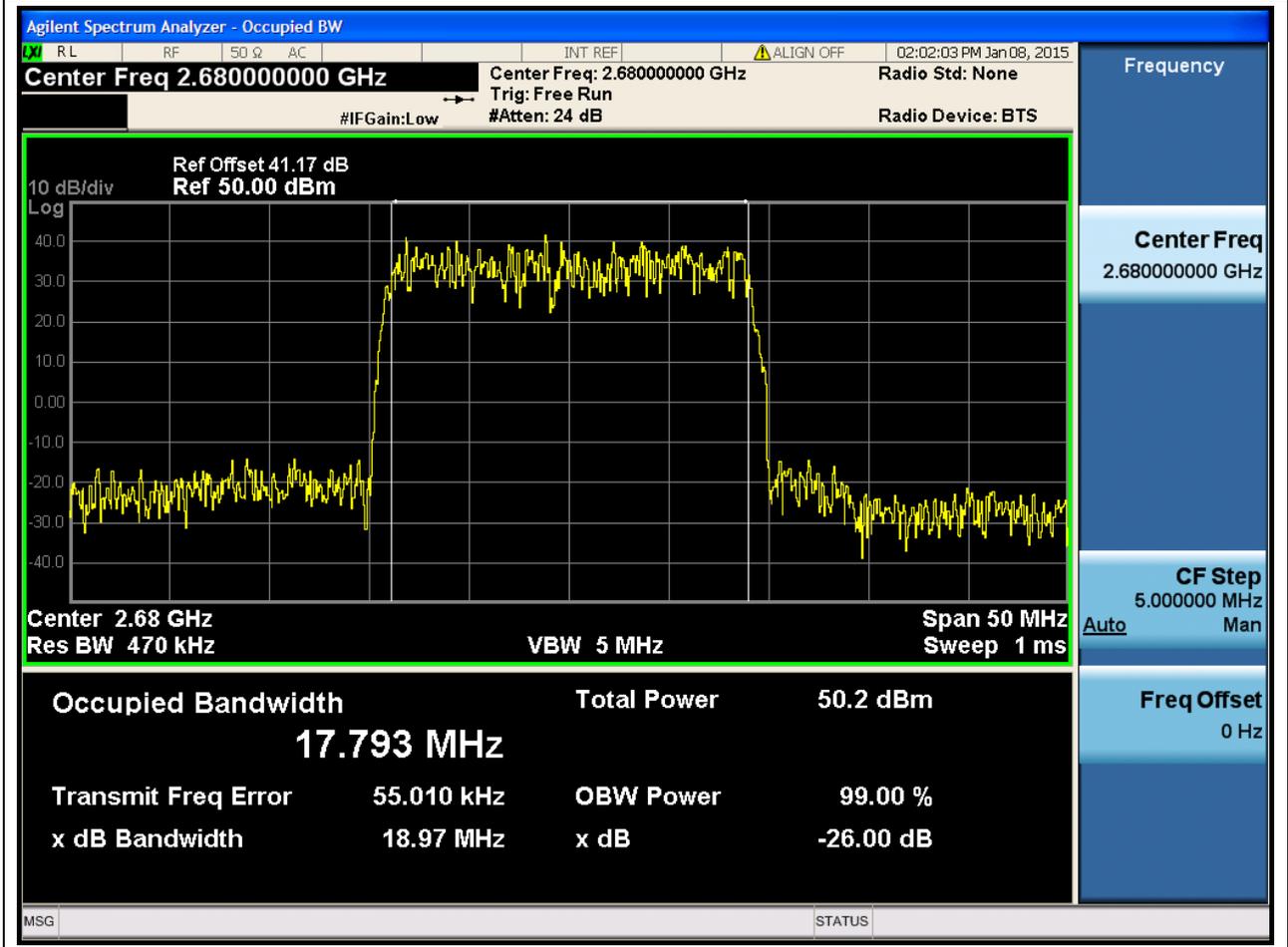
2.1.11 1L_20M_M





2.1.12 1L_20M_T

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2680	99	Auto	Peak	17.792915	No Conclusion

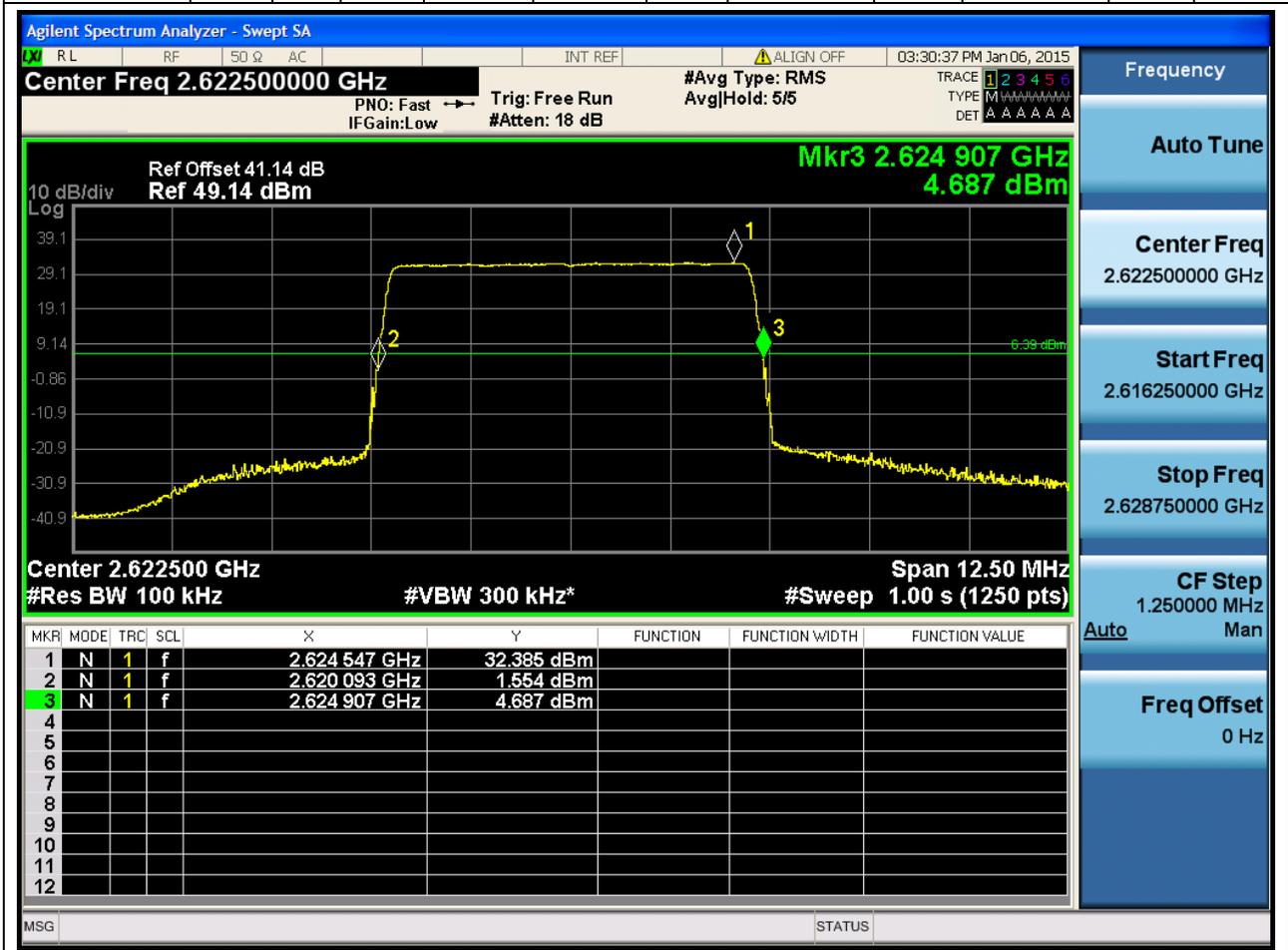




2.2 Emission Bandwidth

2.2.1 1L_5M_B

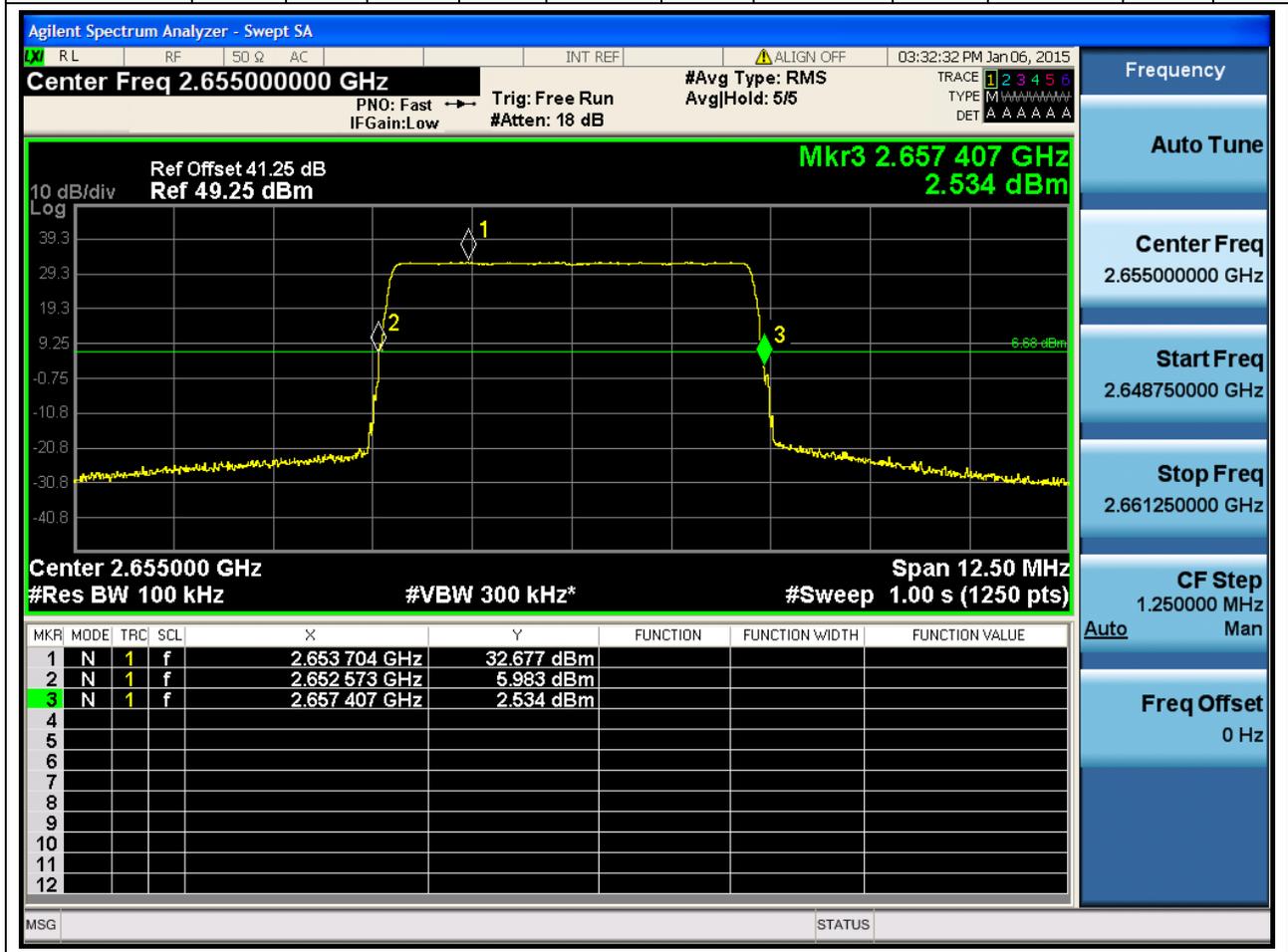
Center Frequency [MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detect or	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2622.5	12.5	26	0.1	RMS	4.8138 24	5	2620.093 184	2620	2624.907 008	269 0	Pass





2.2.2 1L_5M_M

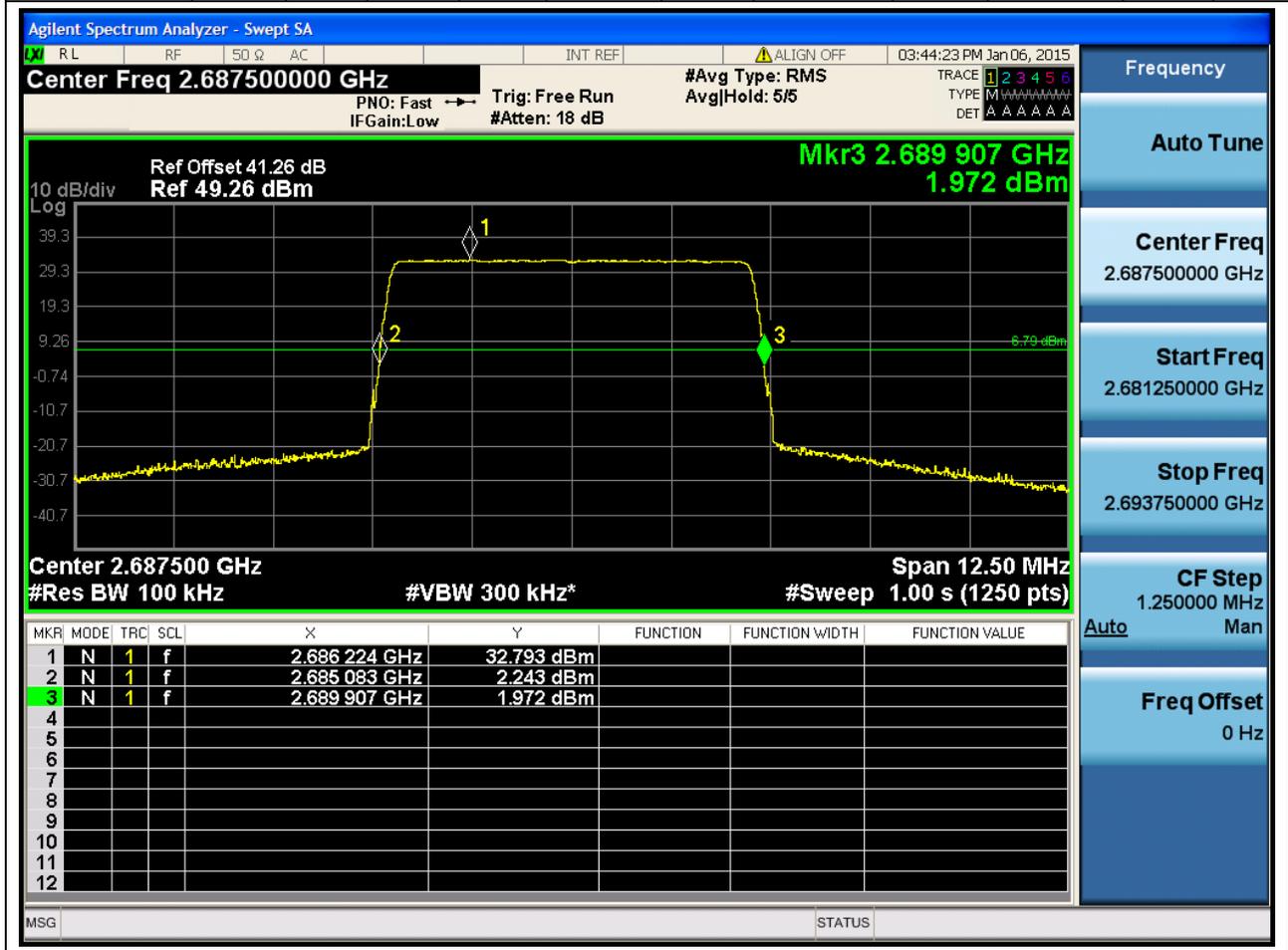
Center Frequency [MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2655	12.5	26	0.1	RMS	4.833792	5	2652.573184	2620	2657.406976	2690	Pass





2.2.3 1L_10M_T

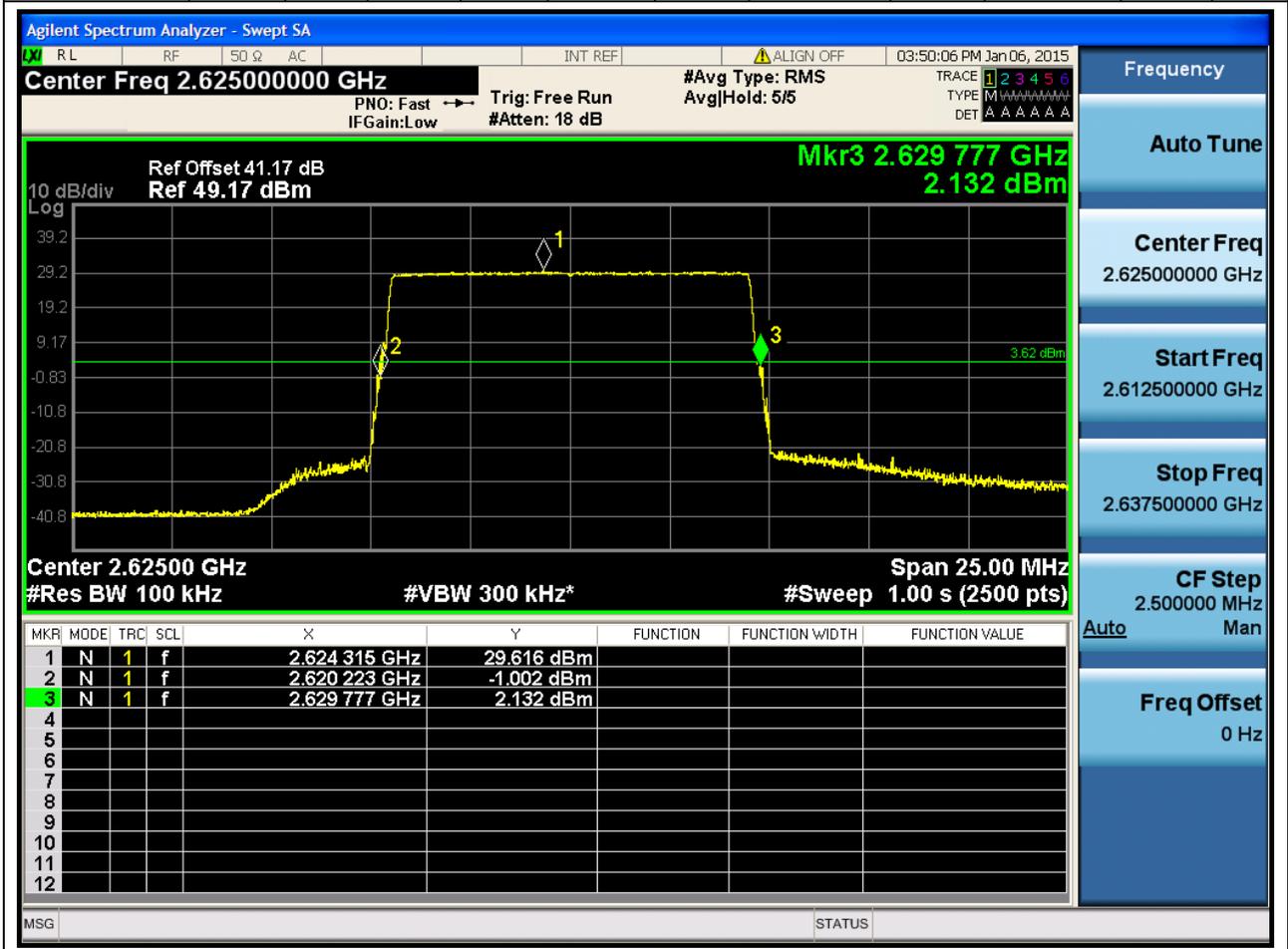
Center Frequency [MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2687.5	12.5	26	0.1	RMS	4.823808	5	2685.083136	2620	2689.906944	2690	Pass





2.2.4 1L_10M_B

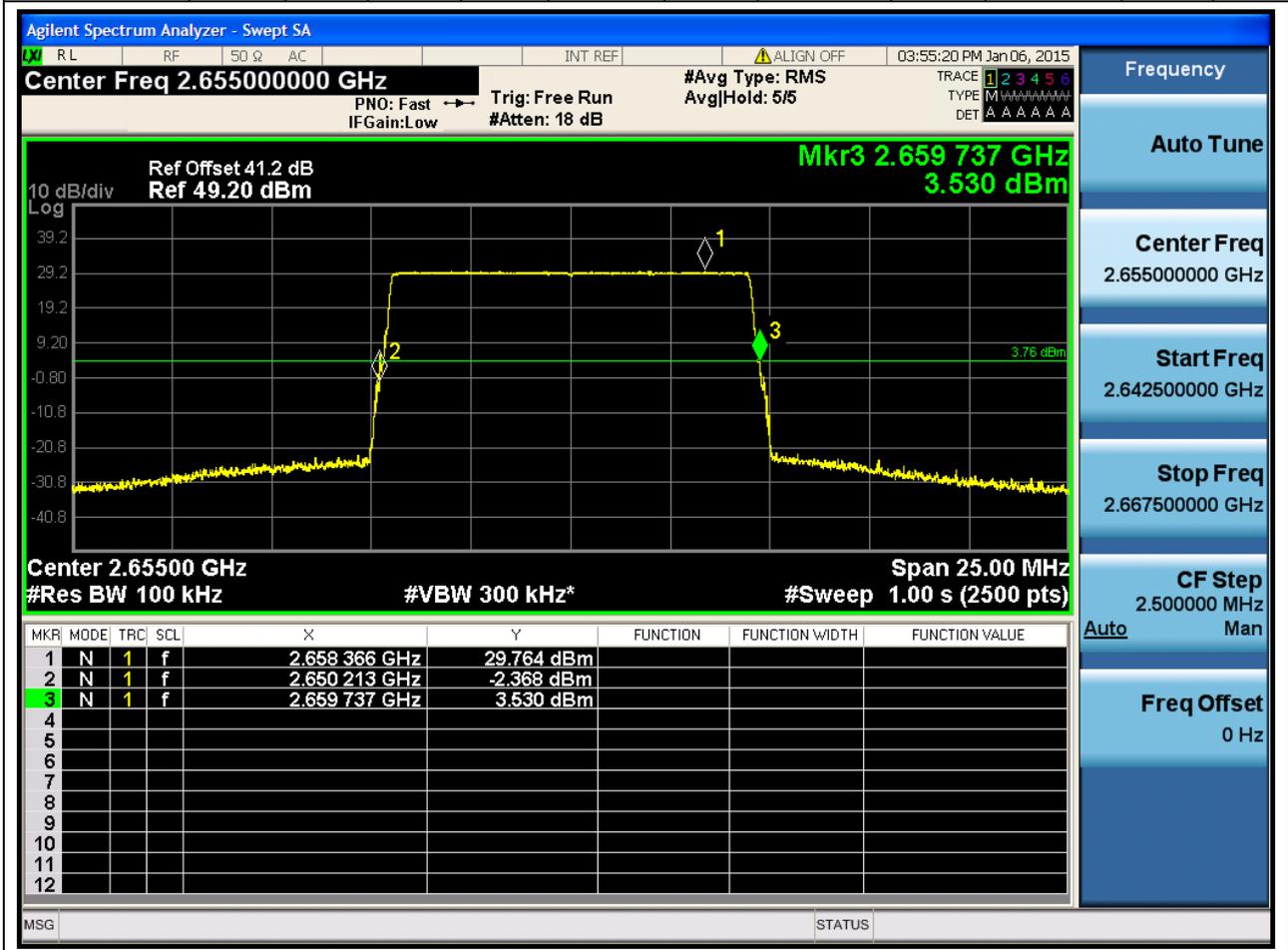
Center Frequency [MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2625	25	26	0.1	RMS	9.55392	10	2620.222976	2620	2629.776896	2690	Pass





2.2.5 1L_10M_M

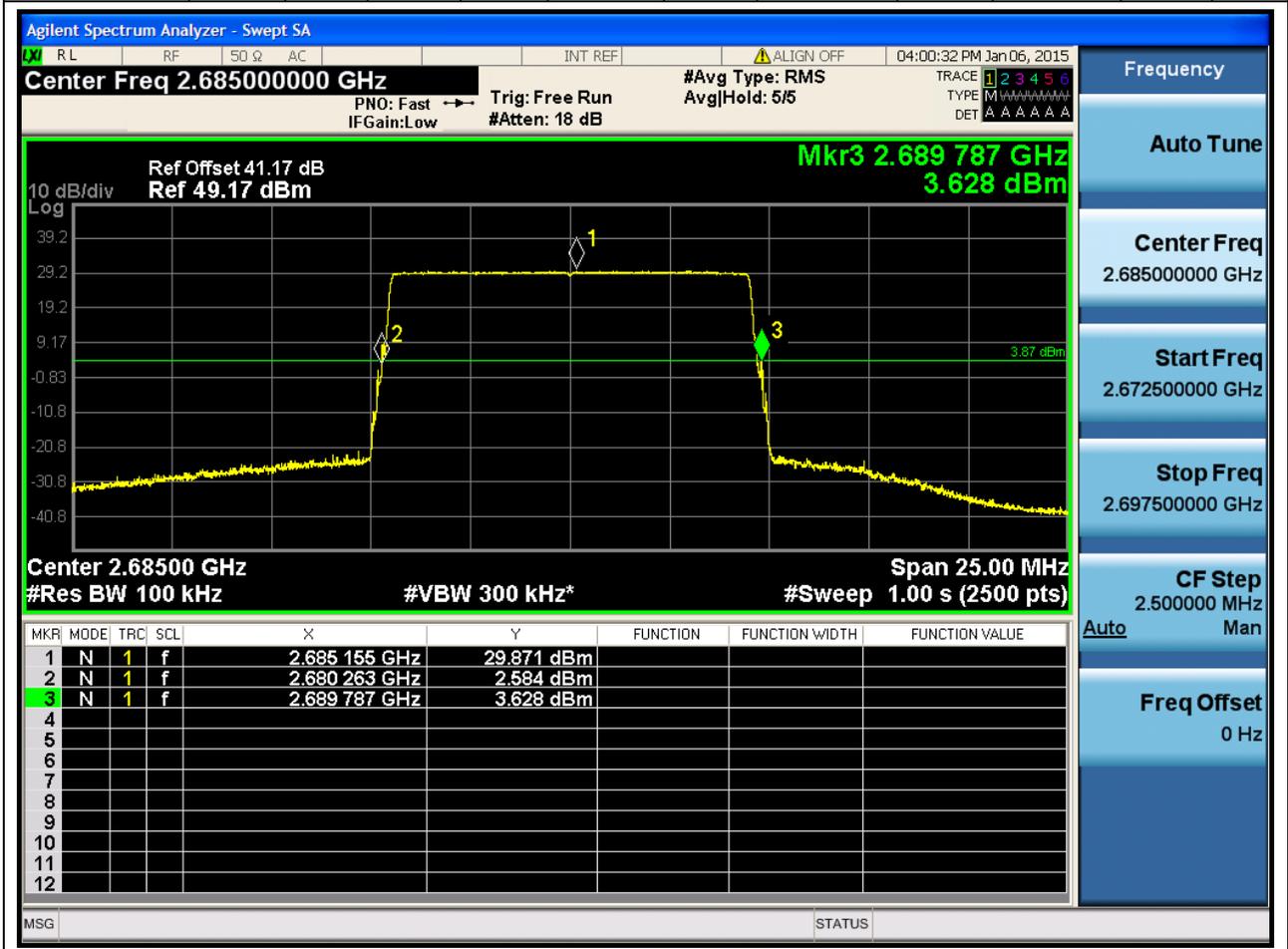
Center Frequency [MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2655	25	26	0.1	RMS	9.5237 12	10	2650.21 312	2620	2659.73 6832	2690	Pass





2.2.6 1L_10M_T

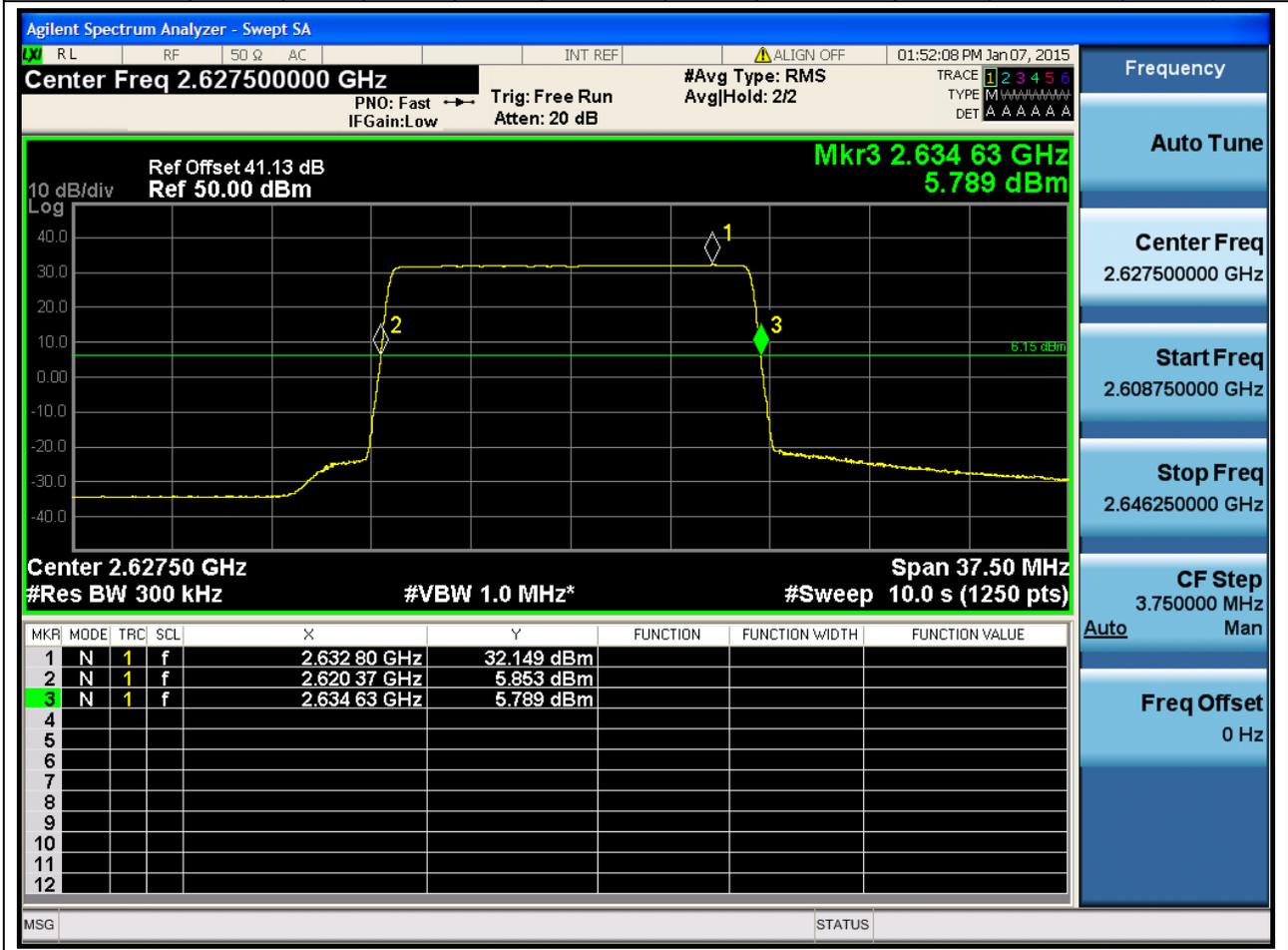
Center Frequency [MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2685	25	26	0.1	RMS	9.5237 12	10	2680.263 168	2620	2689.78 688	2690	Pass





2.2.7 1L_15M_B

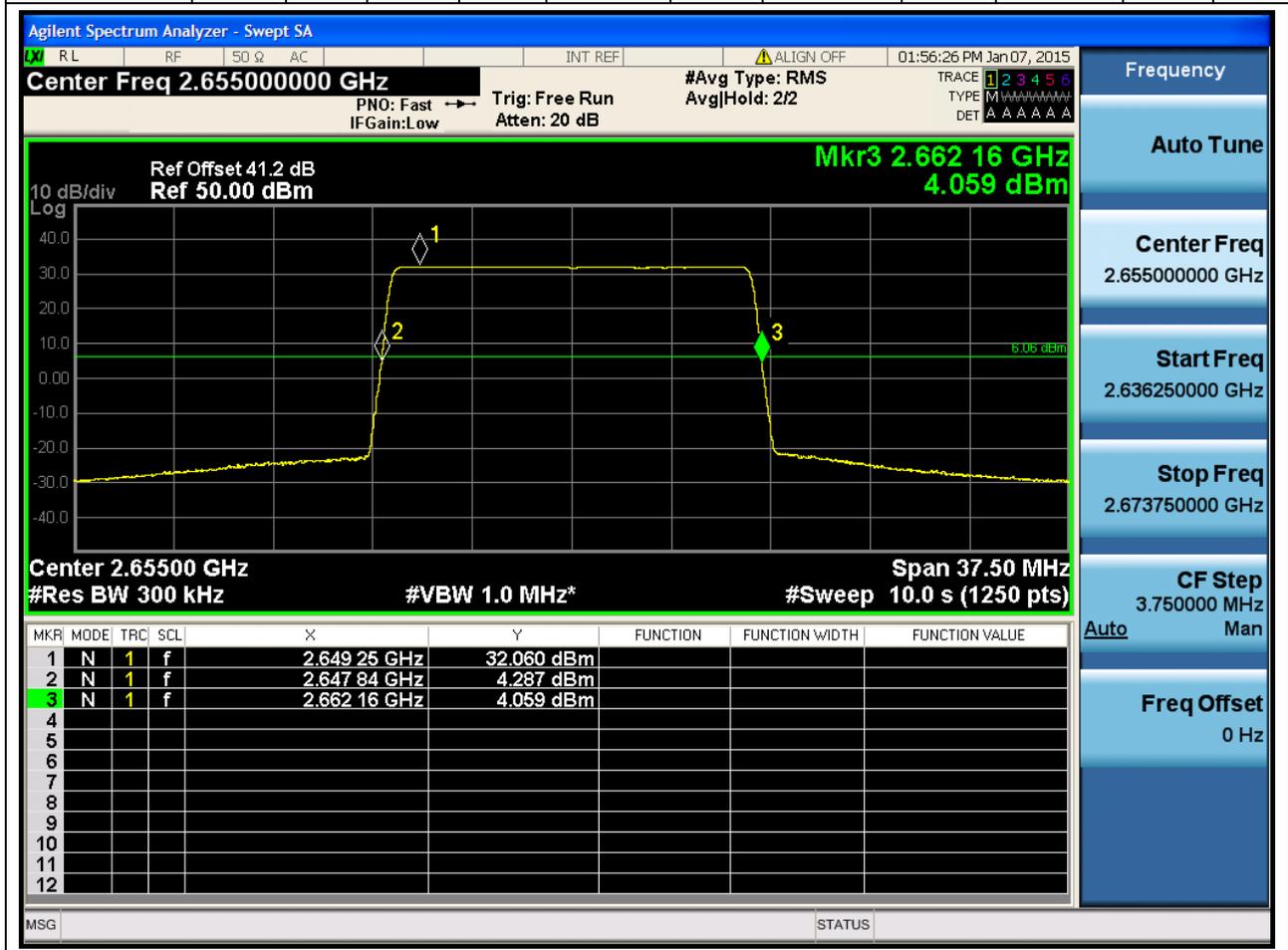
Center Frequency [MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2627.5	37.5	26	0.3	RMS	14.261248	15	2620.369408	2620	2634.630656	2690	Pass





2.2.8 1L_15M_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
2655	37.5	26	0.3	RMS	14.321408	15	2647.839232	2620	2662.16064	2690	Pass





2.2.9 1L_15M_T

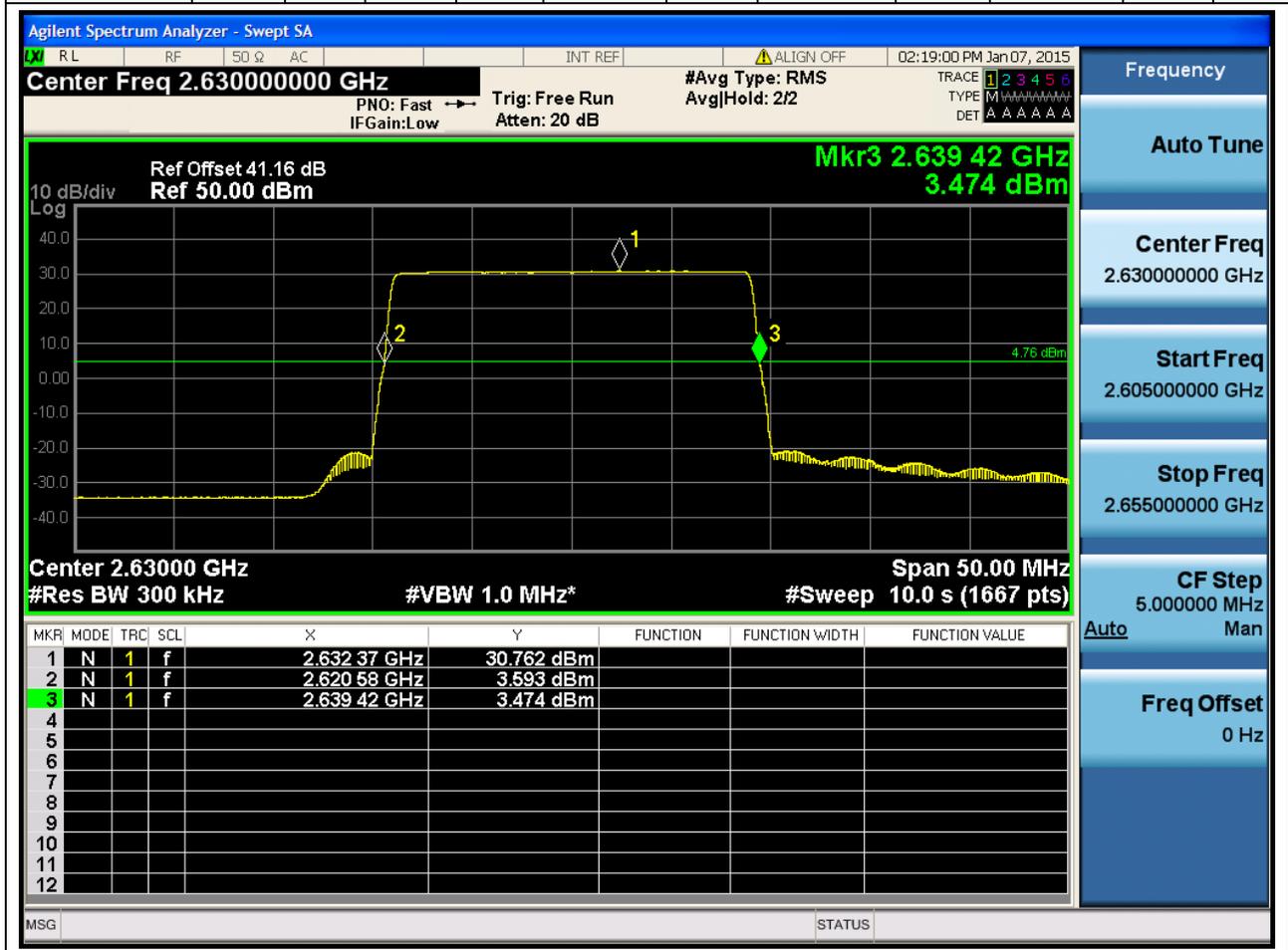
Center Frequency [MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2682.5	37.5	26	0.3	RMS	14.291456	15	2675.339264	2620	2689.63072	2690	Pass





2.2.10 1L_20M_B

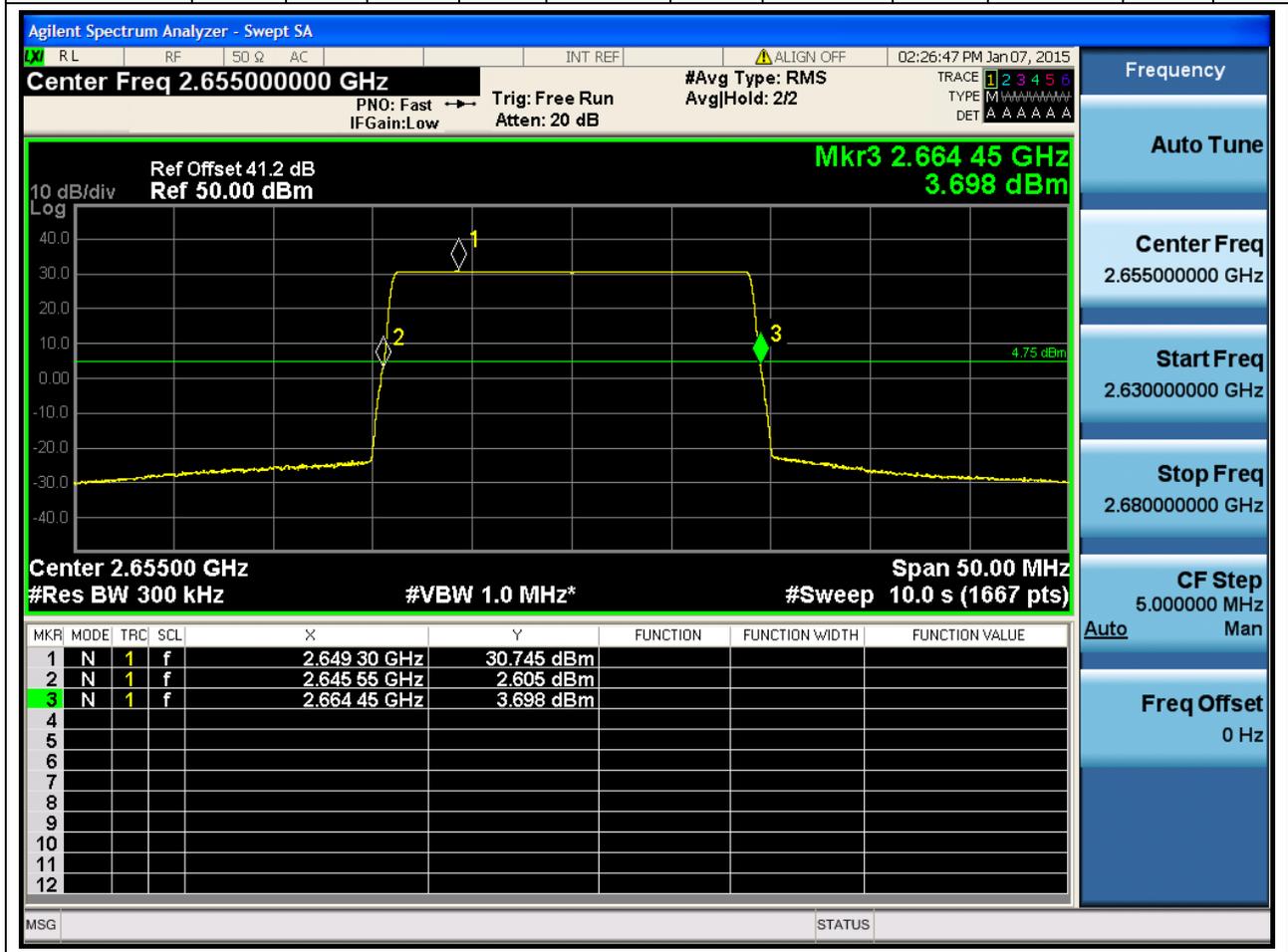
Center Frequency [MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2630	50	26	0.3	RMS	18.847488	20	2620.576256	2620	2639.423744	2690	Pass





2.2.11 1L_20M_M

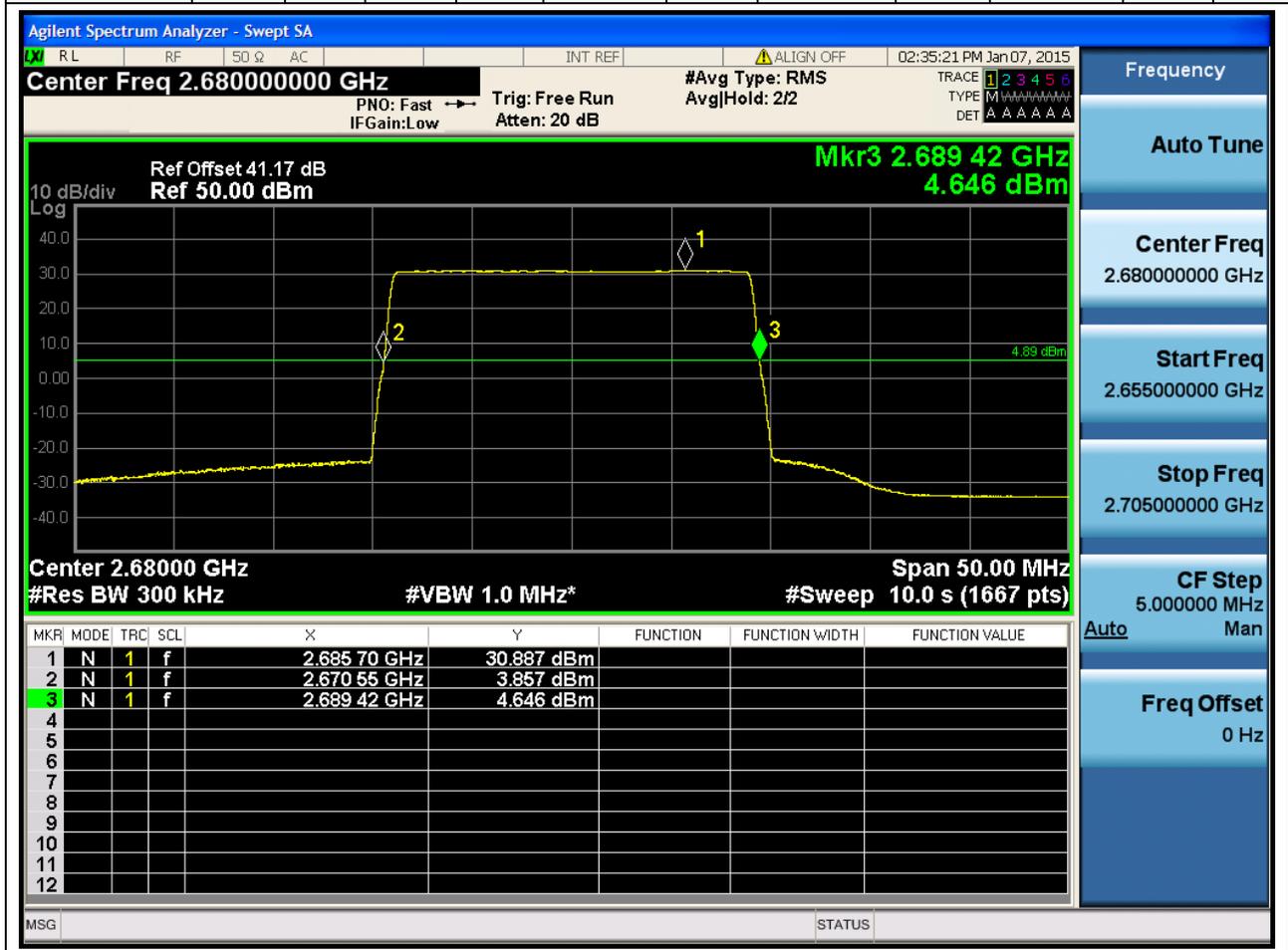
Center Frequency [MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2655	50	26	0.3	RMS	18.907648	20	2645.54624	2620	2664.453888	2690	Pass





2.2.12 1L_20M_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
2680	50	26	0.3	RMS	18.877696	20	2670.546176	2620	2689.423872	2690	Pass





Appendix C: Band Edges Compliance / Emission Mask



1 Result Table

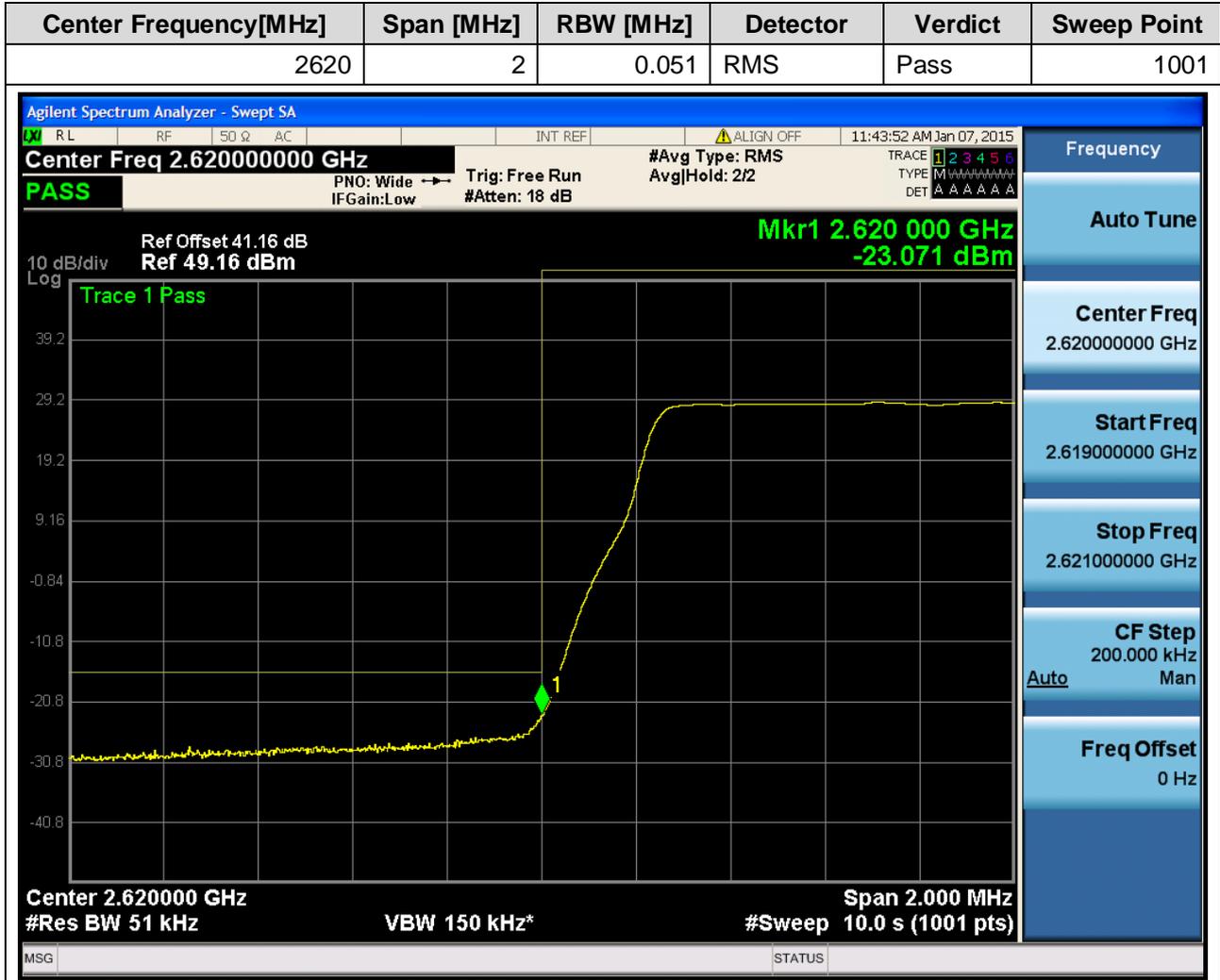
NOTE: If applicable, the offset of measurement filter -3dB point may be considered when identifying the maximum emission for e.g. the CDMA, WCDMA, WiMAX, LTE systems.

EUT Conf.	Maximum Emission [dBm]		Verdict
	Low offset emission	High offset emission	
1L_5M_B	-23.071	-21.511	Pass
1L_5M_M	-22.370	-21.215	Pass
1L_5M_T	-22.576	-21.425	Pass
1L_10M_B	-23.513	-21.424	Pass
1L_10M_M	-21.835	-20.723	Pass
1L_10M_T	-22.672	-22.184	Pass
1L_15M_B	-25.016	-23.312	Pass
1L_15M_M	-24.452	-23.455	Pass
1L_15M_T	-24.349	-23.865	Pass
1L_20M_B	-23.937	-23.033	Pass
1L_20M_M	-25.203	-24.086	Pass
1L_20M_T	-25.203	-24.472	Pass

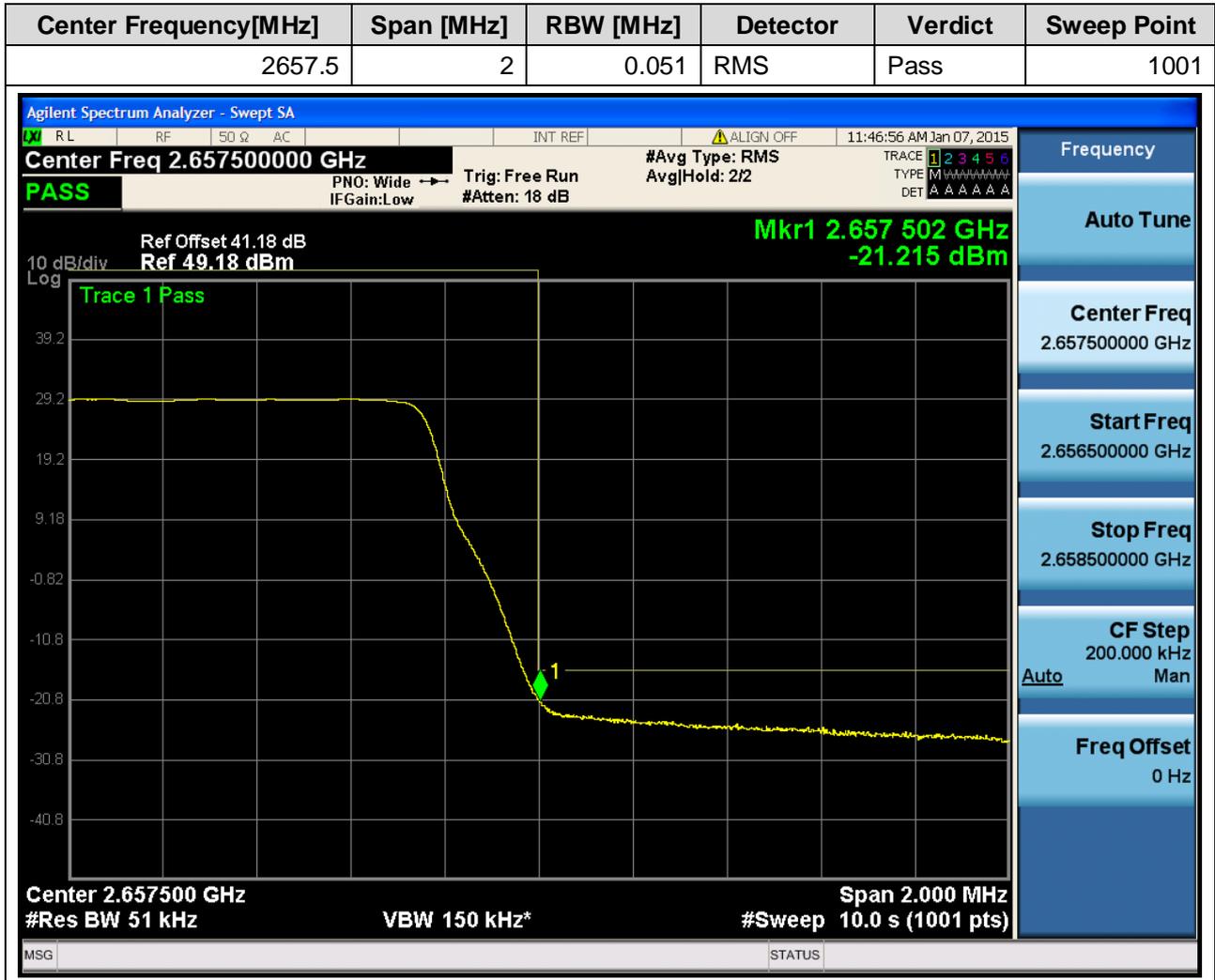


2 Test Plot

2.1 1L_5M_B

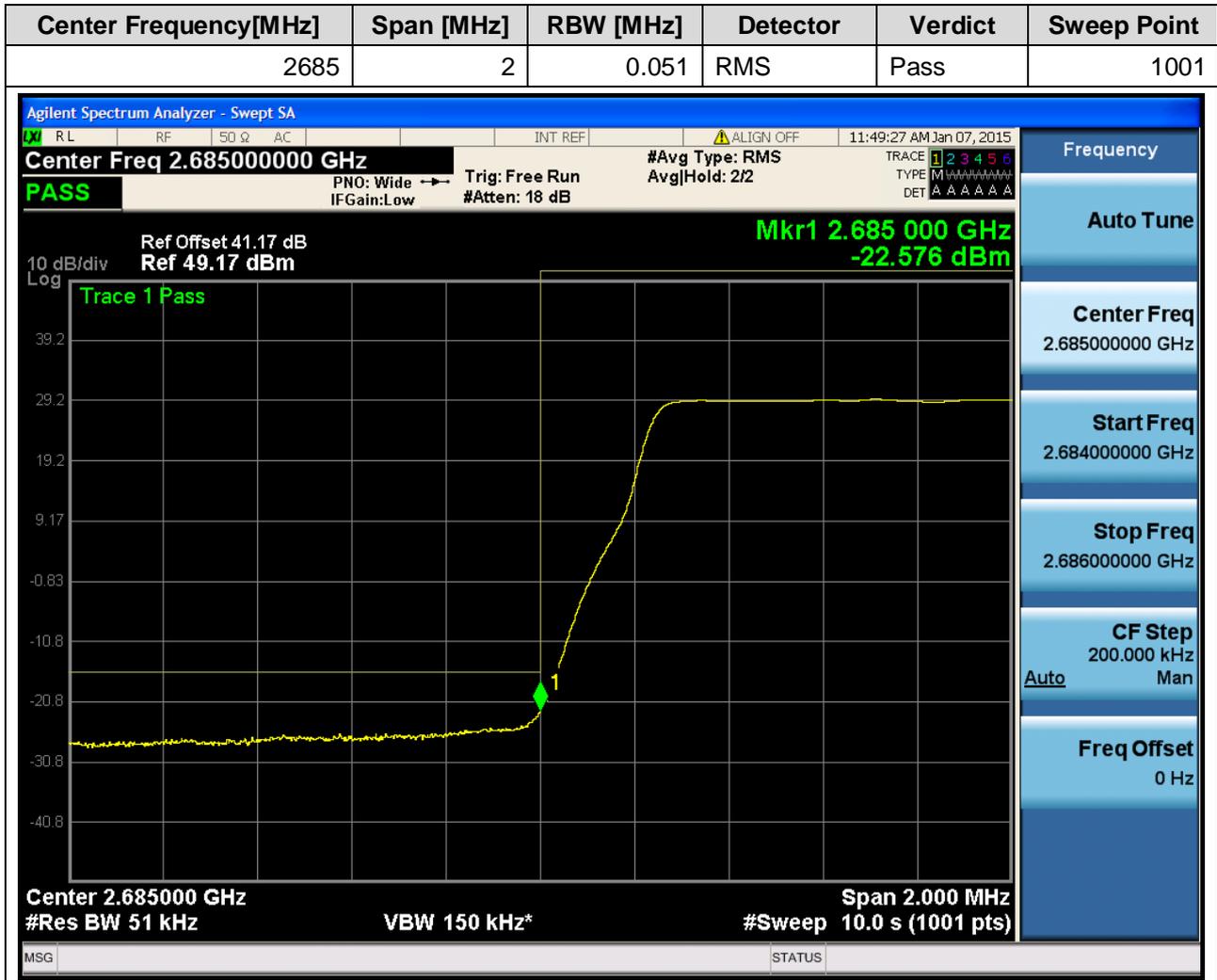


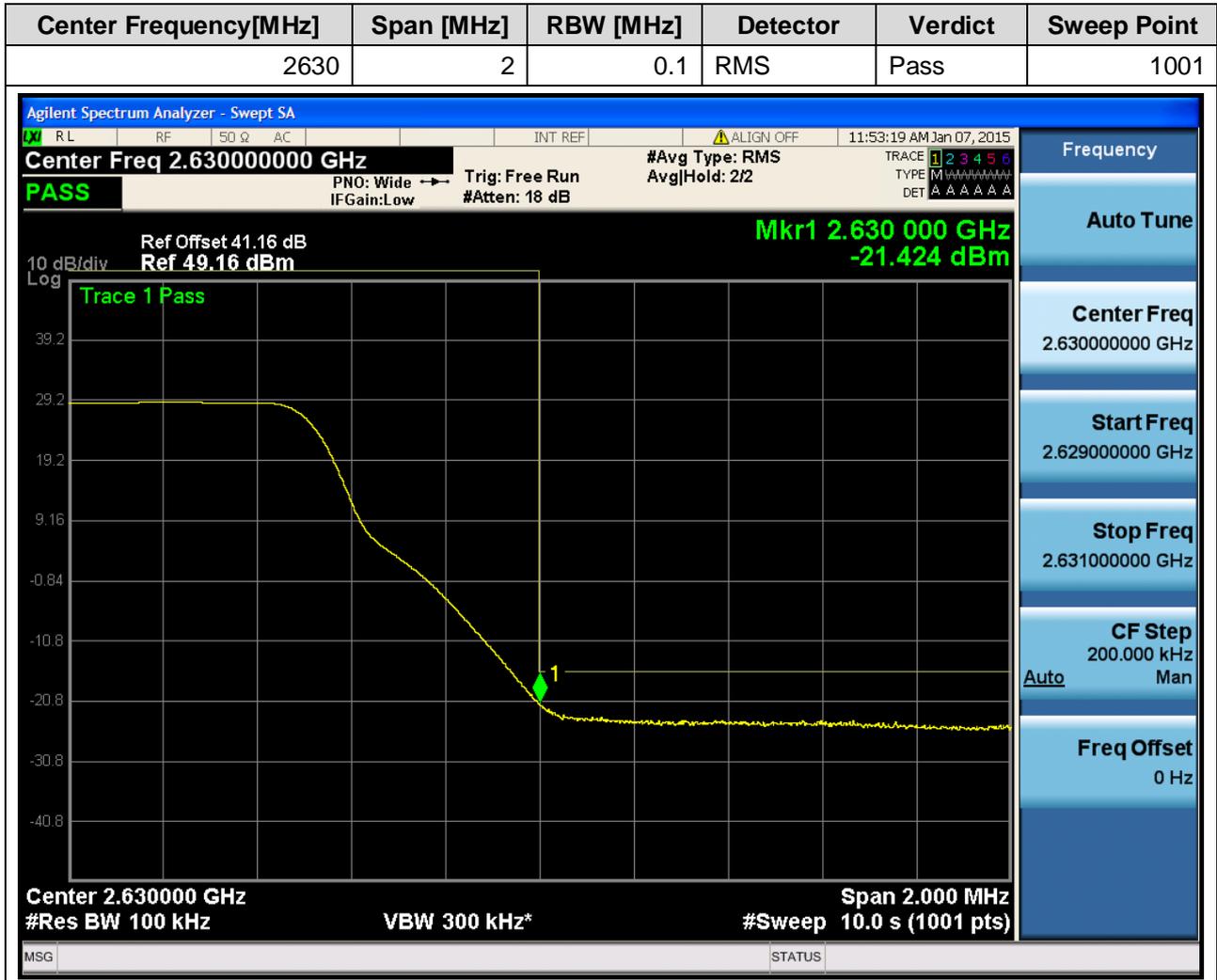






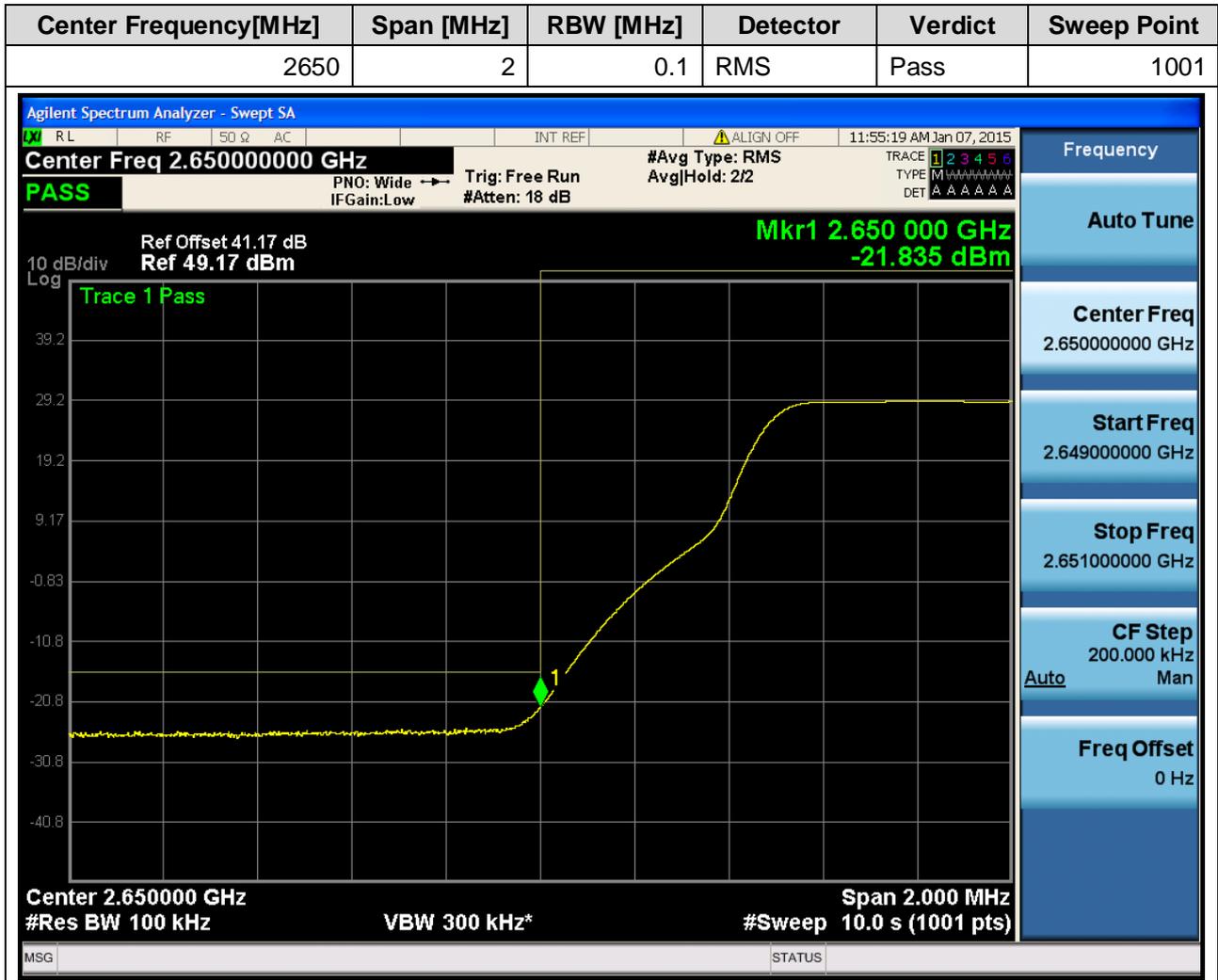
2.3 1L_5M_T

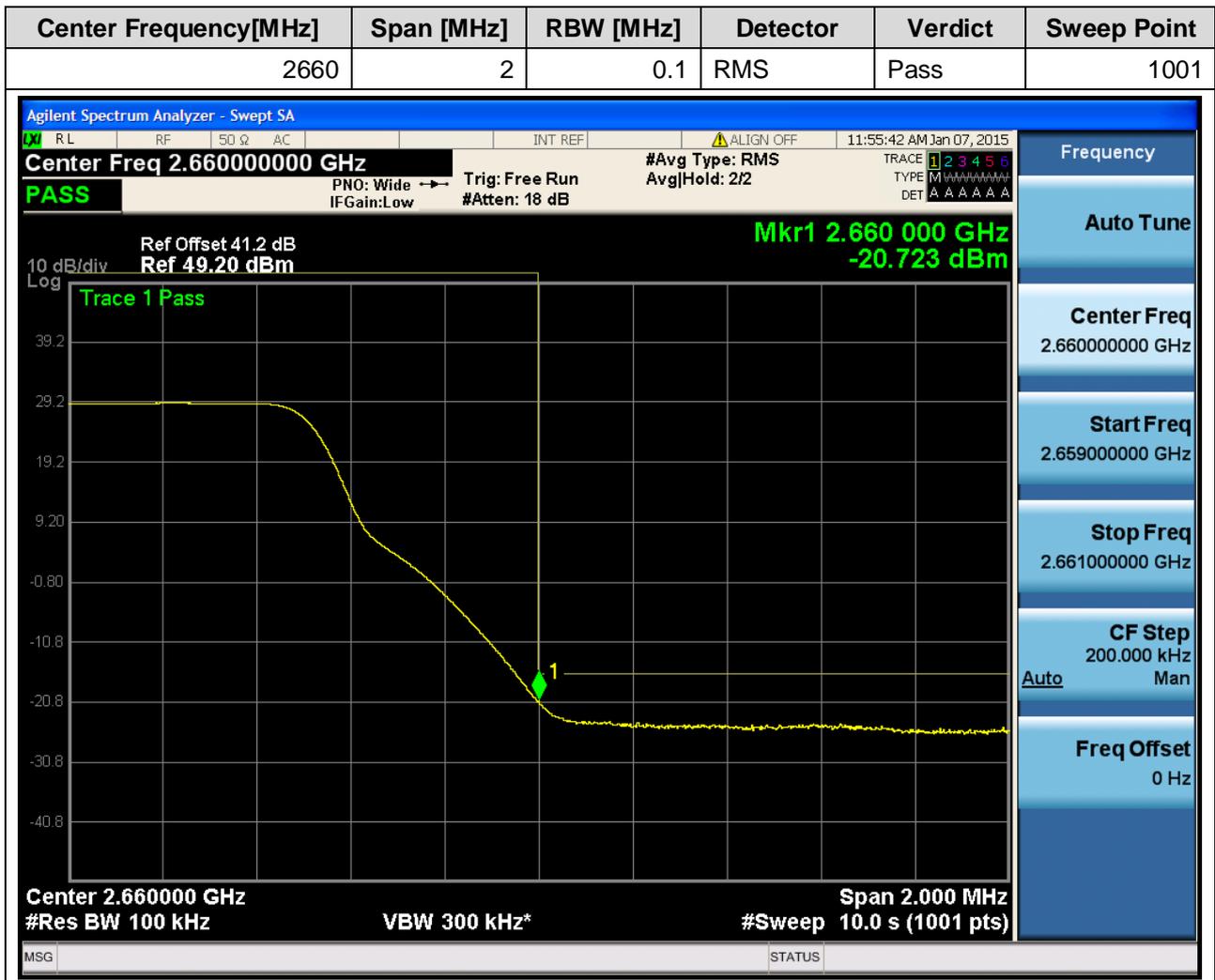






2.5 1L_10M_M





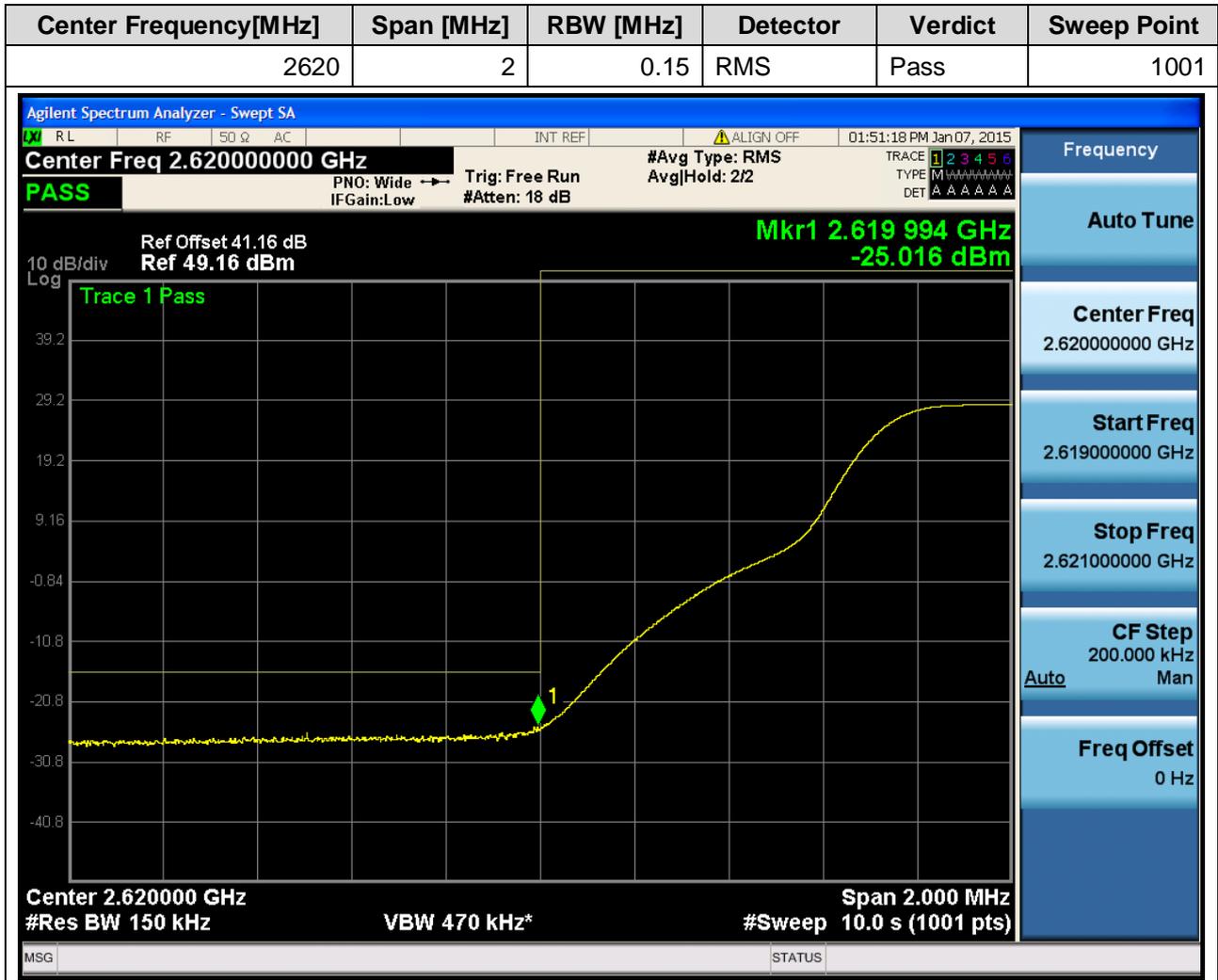


2.6 1L_10M_T



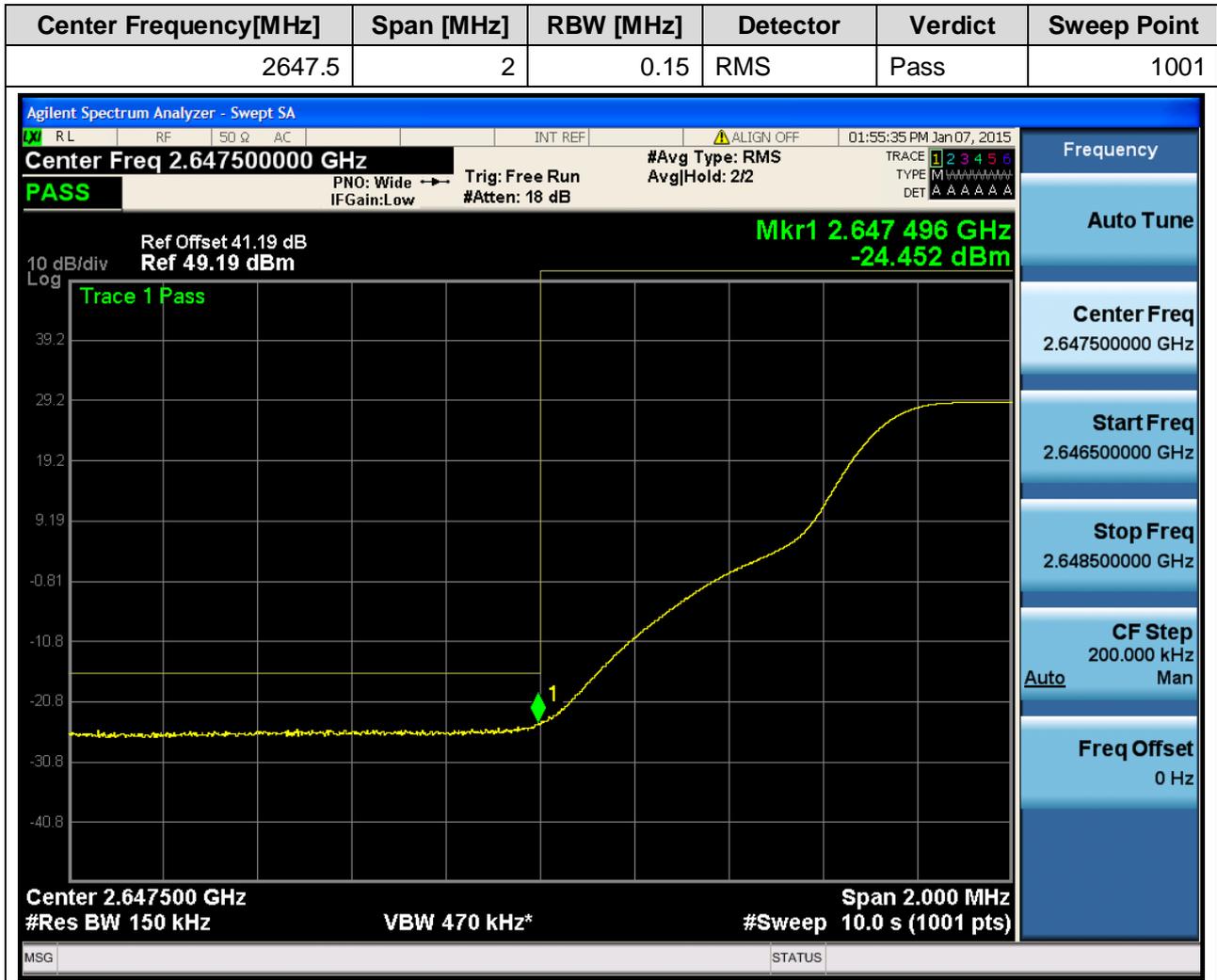


2.7 1L_15M_B





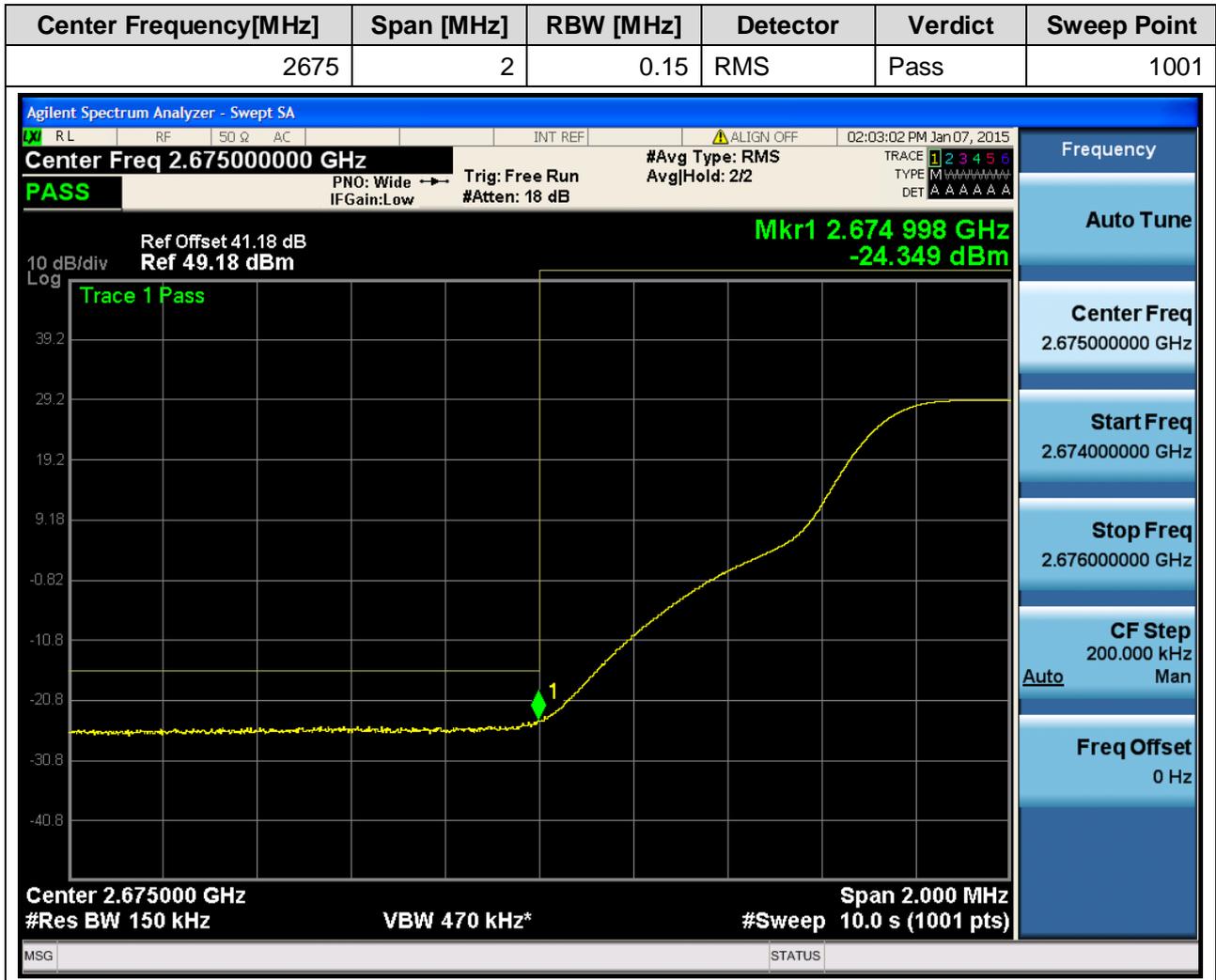
2.8 1L_15M_M







2.9 1L_15M_T

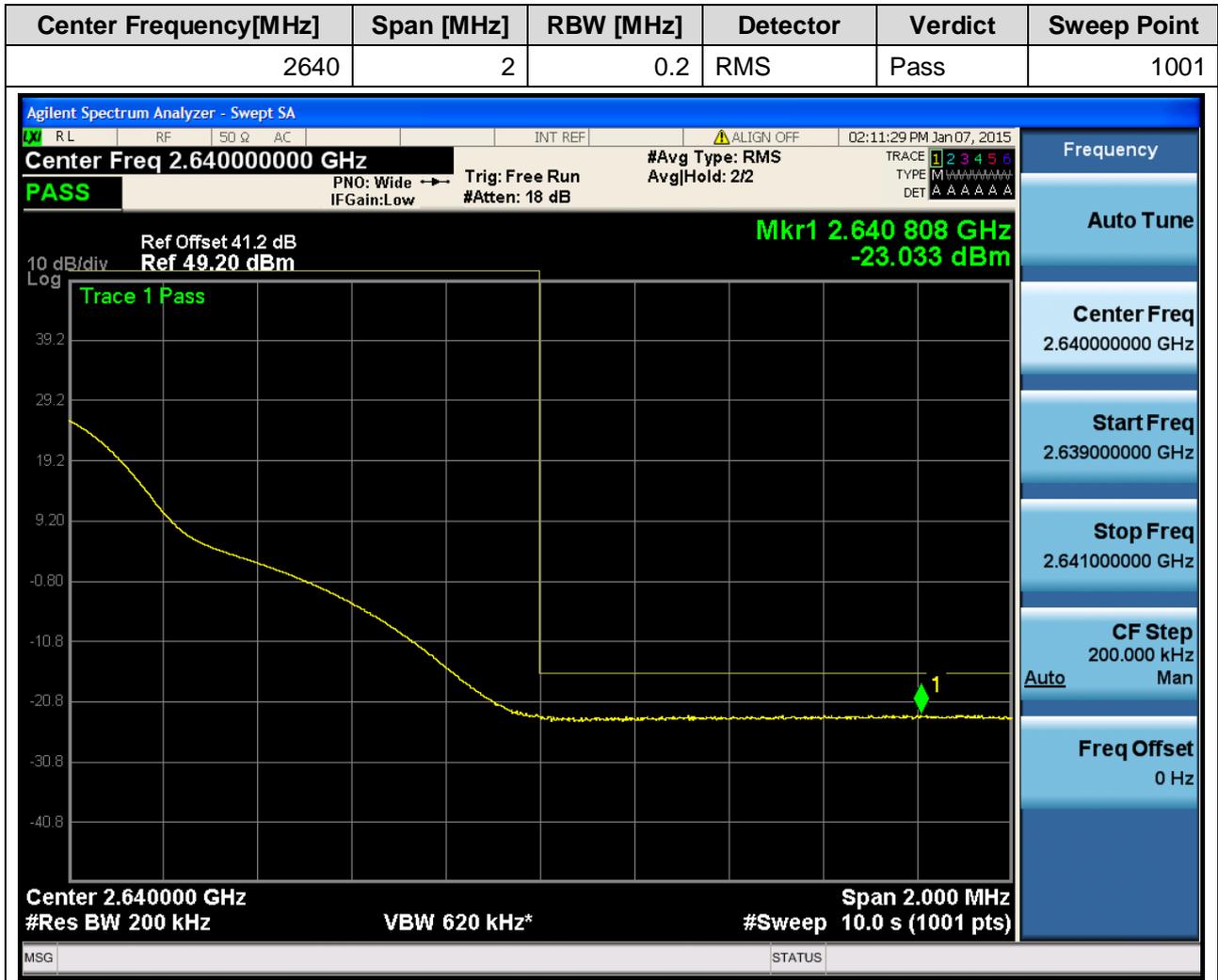






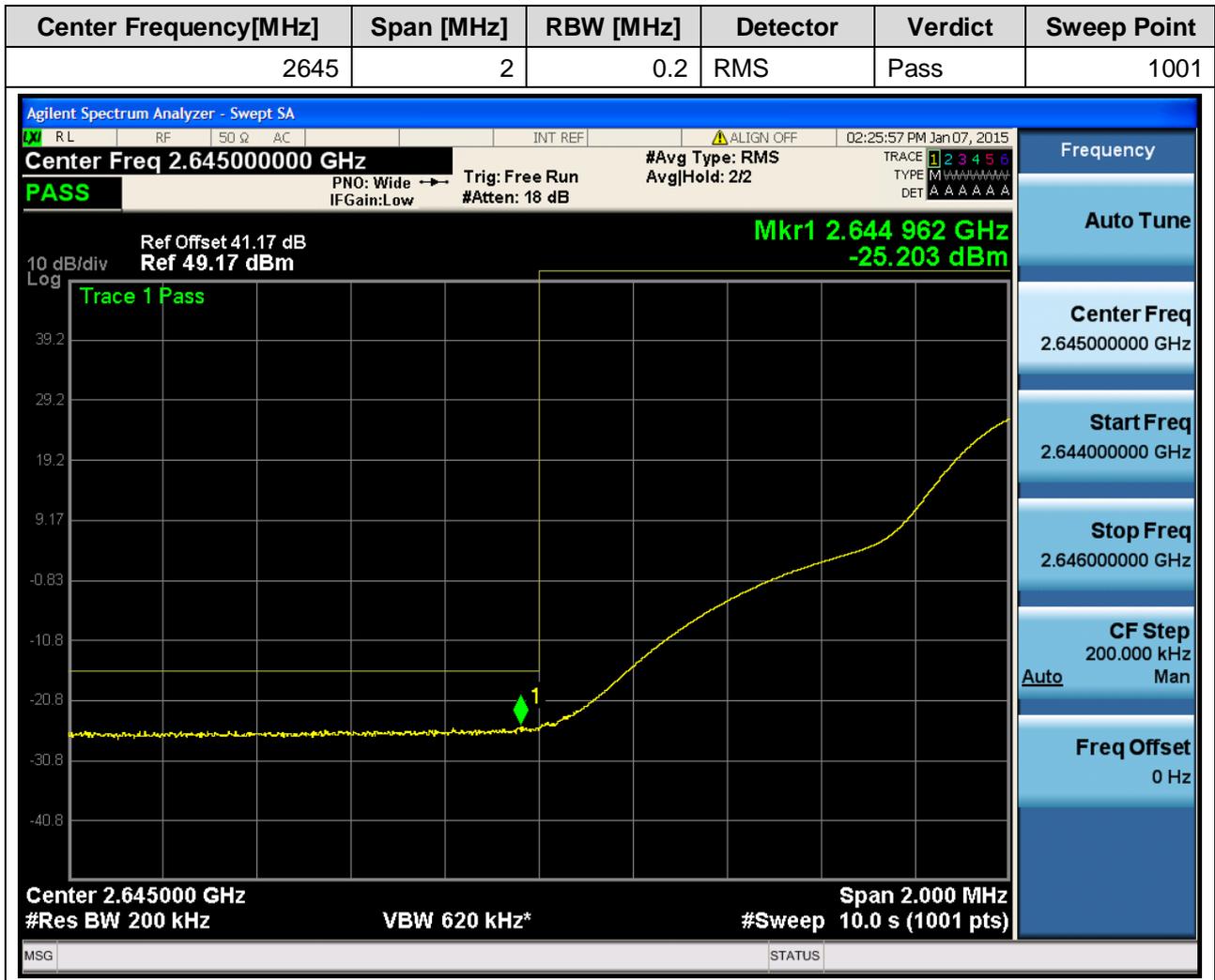
2.10 1L_20M_B

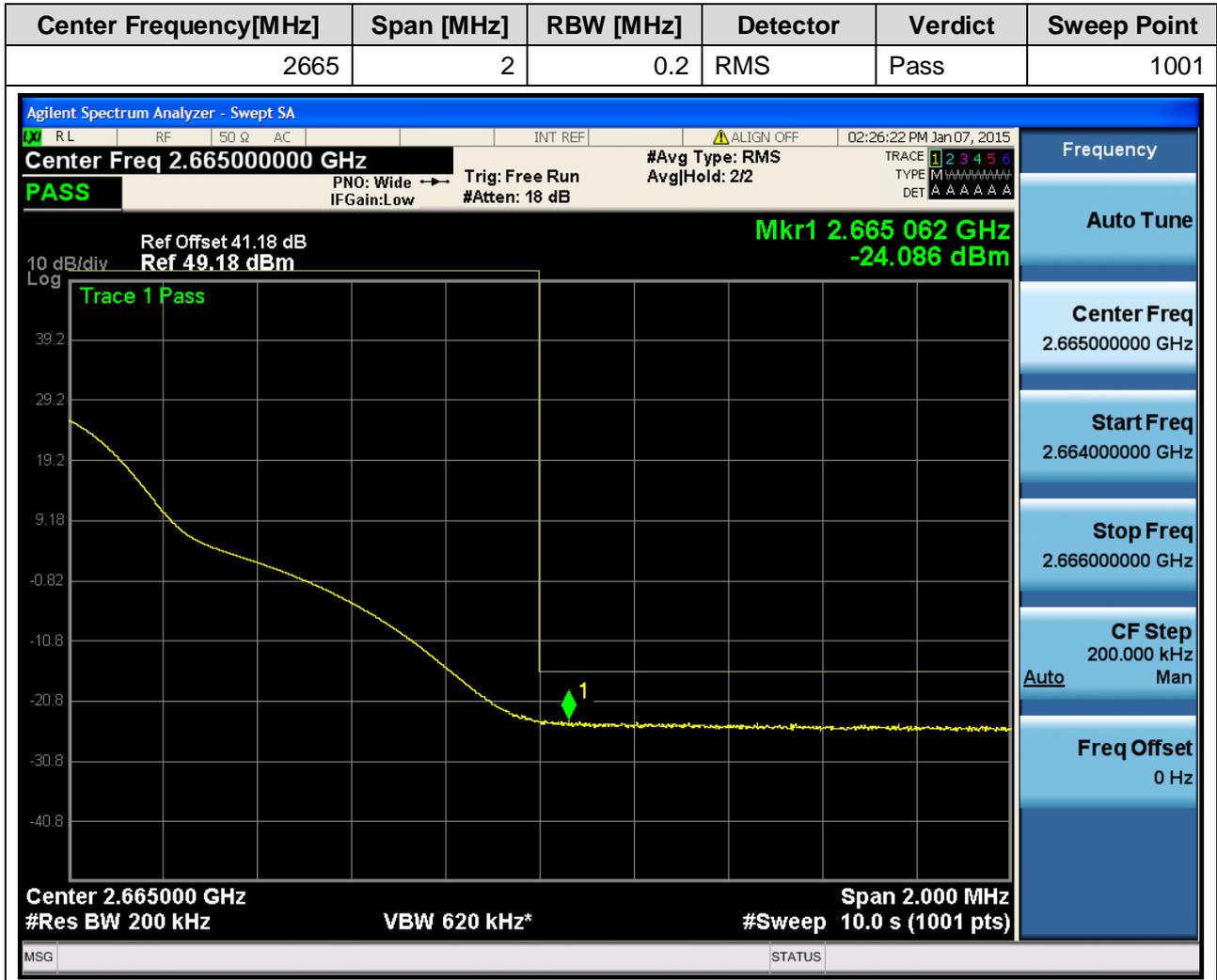






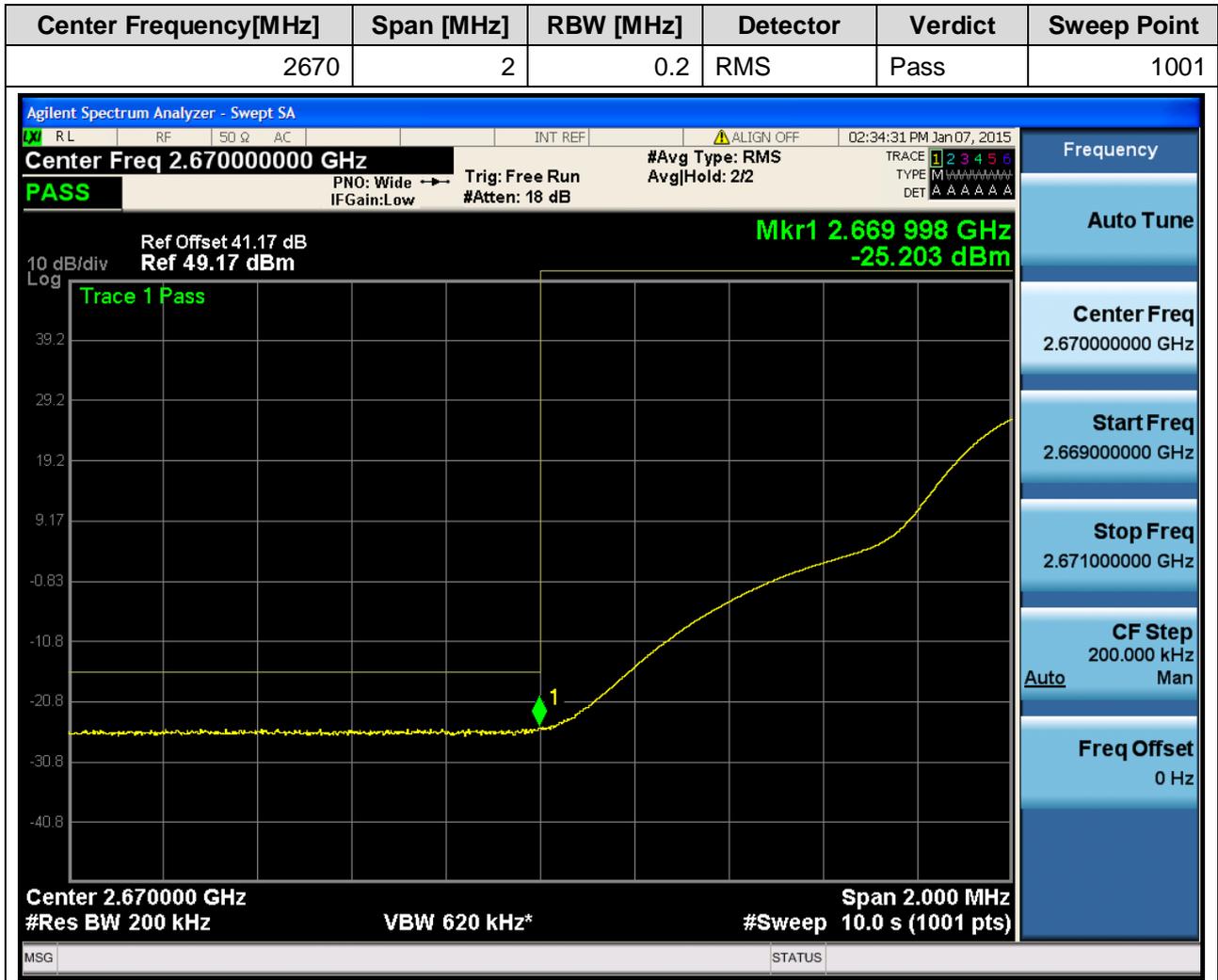
2.11 1L_20M_M

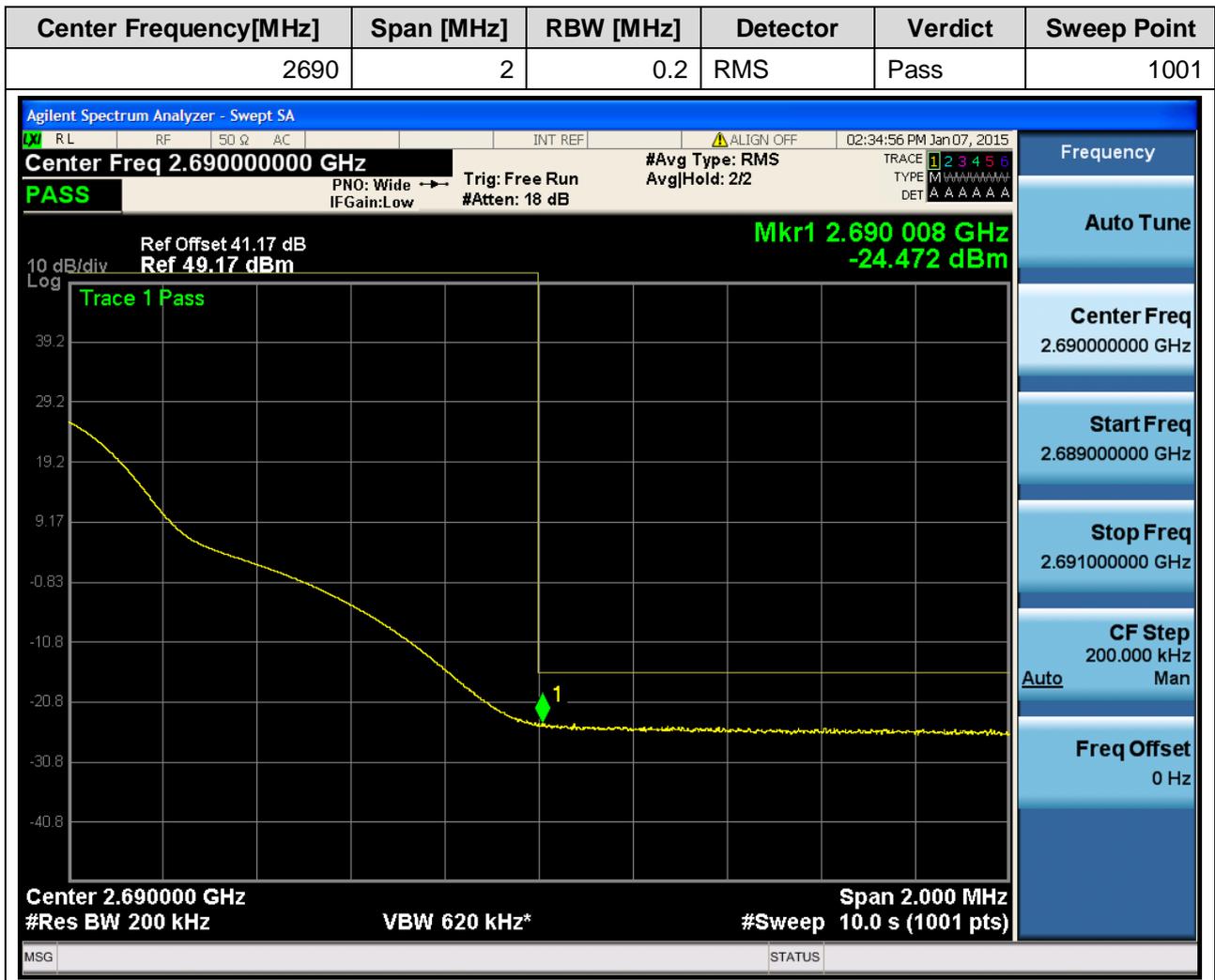






2.12 1L_20M_T







Appendix D: Spurious Emission at Antenna Terminals



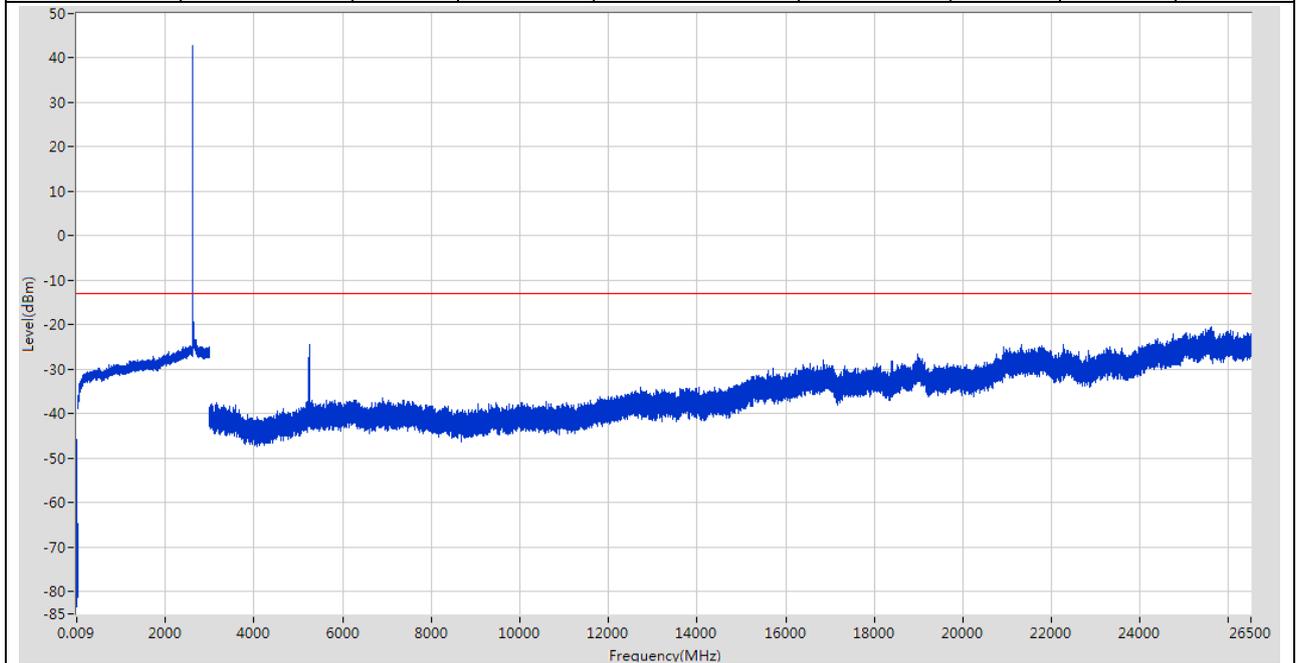
1 Result Table

EUT Conf.	Maximum Emission [dBm]	Verdict
1L_5M_B	< -16	Pass
1L_5M_M	< -16	Pass
1L_5M_T	< -16	Pass
1L_10M_B	< -16	Pass
1L_10M_M	< -16	
1L_10M_T	< -16	
1L_15M_B	< -16	
1L_15M_M	< -16	
1L_15M_T	< -16	
1L_20M_B	< -16	
1L_20M_M	< -16	
1L_20M_T	< -16	
2L_TM1.1_B	< -16	
2L_TM1.1_T	< -16	
3L_TM1.1_B	< -16	
3L_TM1.1_T	< -16	

2 Test Plot

2.1 1L_5M_B

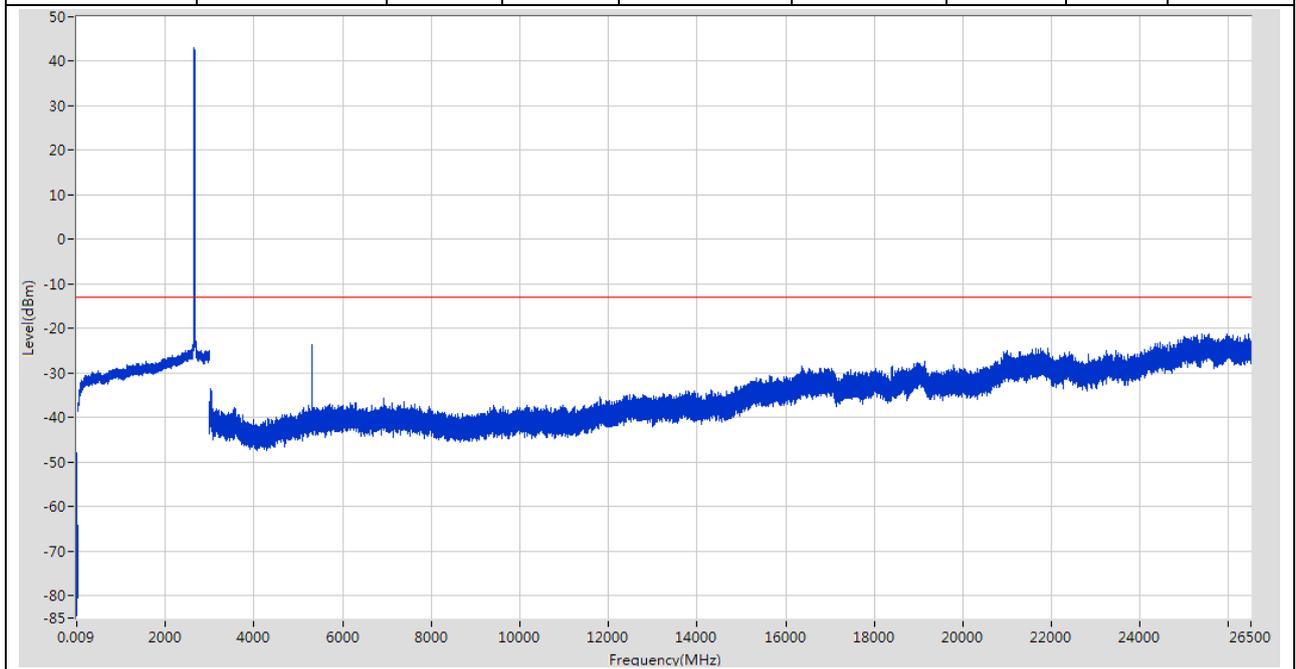
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	9 k	-51.68	-13	Pass	1001
0.15	30	0.01	RMS	154 k	-45.7	-13	Pass	14925
30	3000	1	RMS	2624.174692 M	42.67	-13	Fail	14850
3000	26500	1	RMS	25615.976425 M	-20.51	-13	Pass	117500





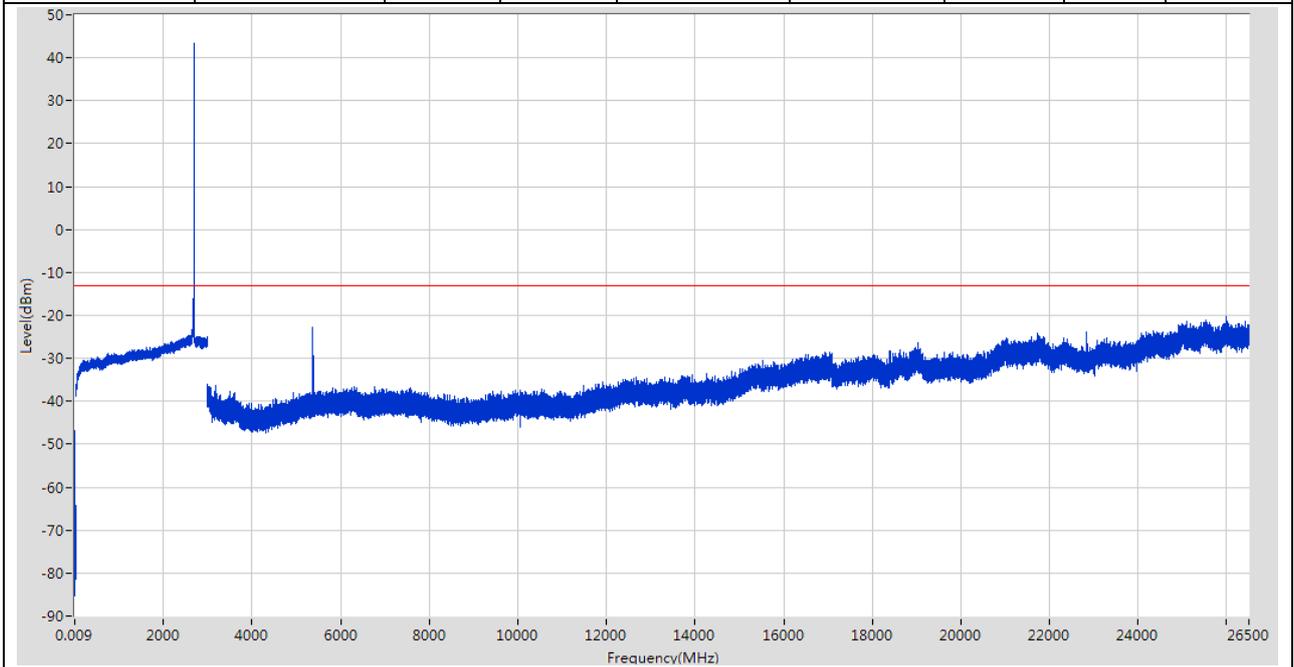
2.2 1L_5M_M

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	9.423 k	-52.46	-13	Pass	1001
0.15	30	0.01	RMS	154 k	-48.01	-13	Pass	14925
30	3000	1	RMS	2655.37679 3 M	43.12	-13	Fail	14850
3000	26500	1	RMS	25951.9853 85 M	-21.21	-13	Pass	117500



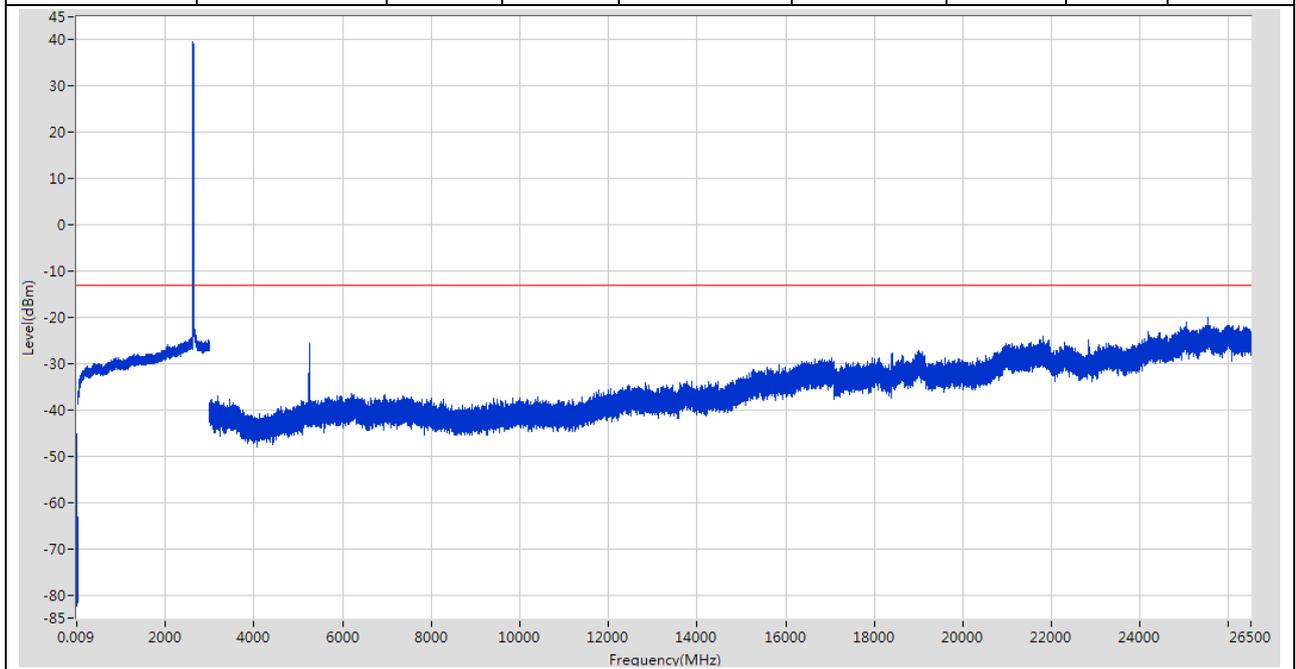
2.3 1L_5M_T

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	9 k	-53.33	-13	Pass	1001
0.15	30	0.01	RMS	154 k	-46.9	-13	Pass	14925
30	3000	1	RMS	2686.97892 1 M	43.33	-13	Fail	14850
3000	26500	1	RMS	25976.5860 42 M	-20.22	-13	Pass	117500



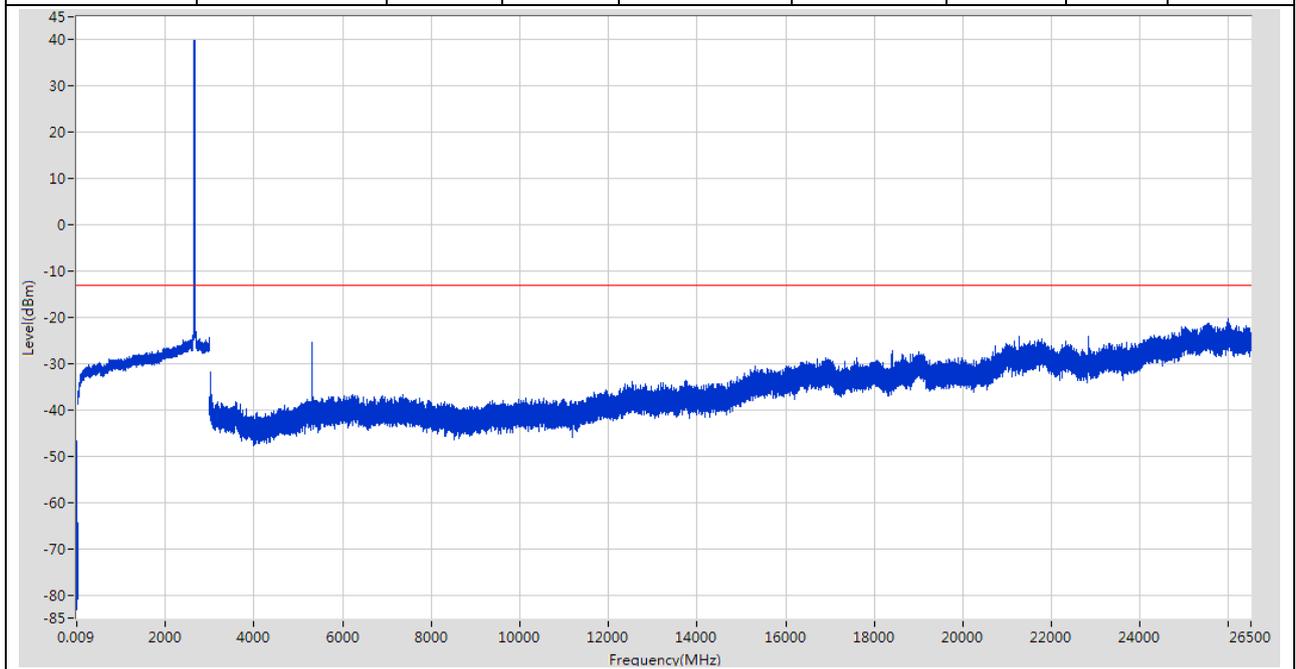
2.4 1L_10M_B

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	10.551 k	-52.77	-13	Pass	1001
0.15	30	0.01	RMS	156 k	-45.26	-13	Pass	14925
30	3000	1	RMS	2622.37457 1 M	39.53	-13	Fail	14850
3000	26500	1	RMS	25530.1741 37 M	-20	-13	Pass	117500



2.5 1L_10M_M

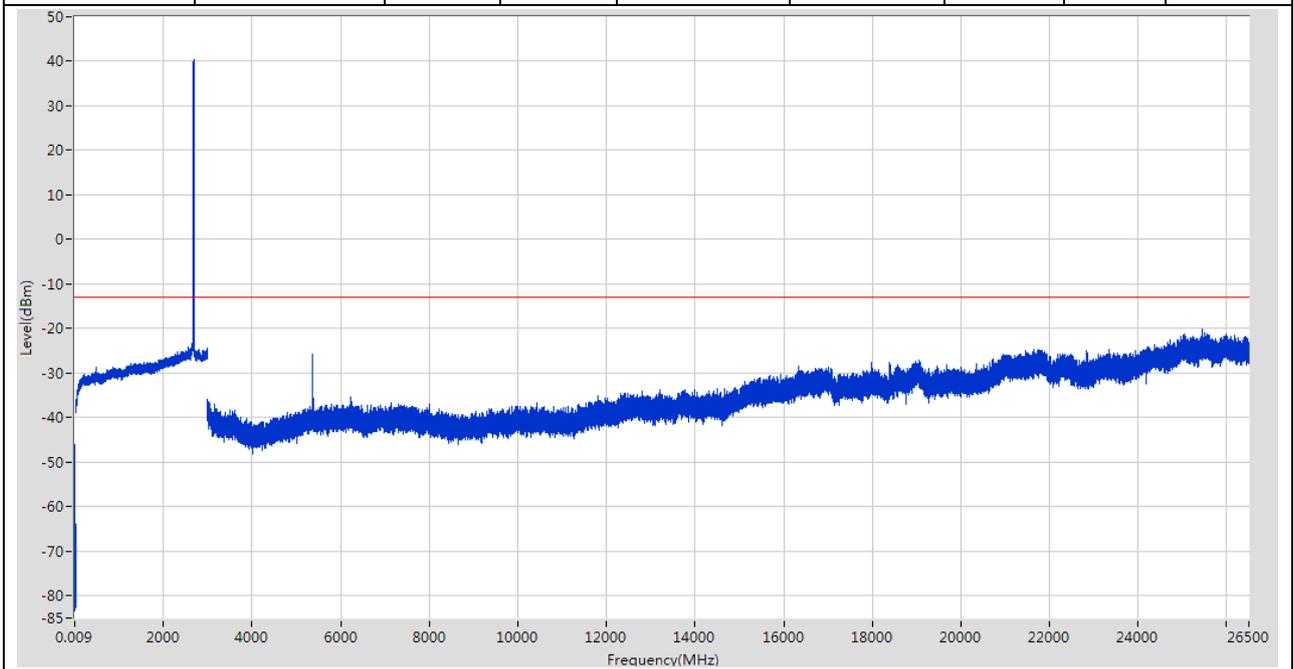
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	10.41 k	-52.92	-13	Pass	1001
0.15	30	0.01	RMS	156 k	-46.69	-13	Pass	14925
30	3000	1	RMS	2657.57694 1 M	39.9	-13	Fail	14850
3000	26500	1	RMS	25998.9866 39 M	-20.13	-13	Pass	117500





2.6 1L_10M_T

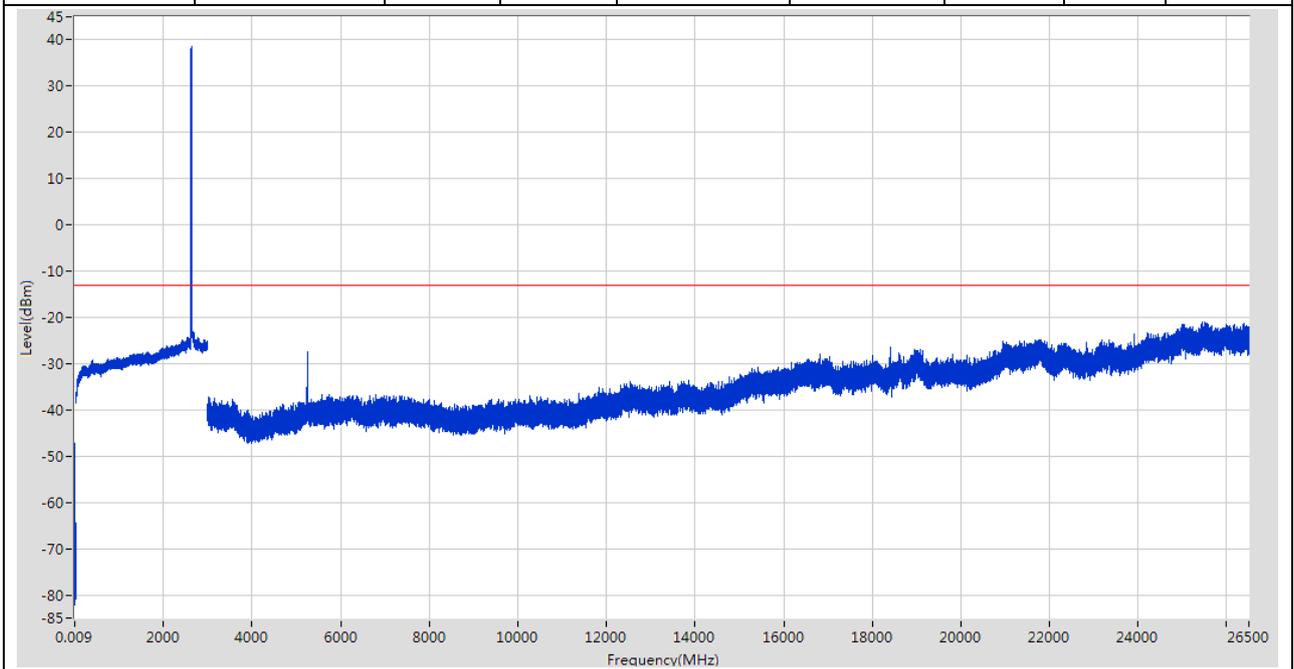
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	9 k	-51.96	-13	Pass	1001
0.15	30	0.01	RMS	158.001 k	-45.96	-13	Pass	14925
30	3000	1	RMS	2685.37881 3 M	40.28	-13	Fail	14850
3000	26500	1	RMS	25448.3719 55 M	-20.2	-13	Pass	117500





2.7 1L_15M_B

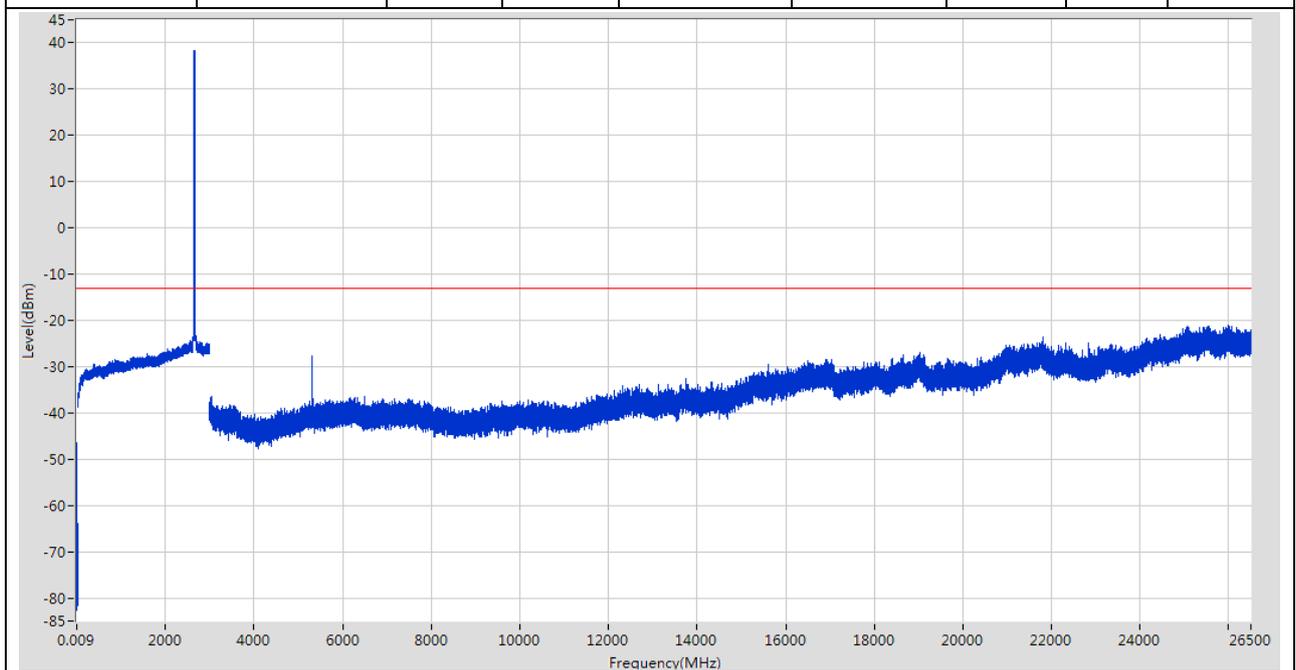
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	10.833 k	-52.8	-13	Pass	1001
0.15	30	0.01	RMS	154 k	-47.28	-13	Pass	14925
30	3000	1	RMS	2632.77527 1 M	38.46	-13	Fail	14850
3000	26500	1	RMS	25438.5716 94 M	-20.96	-13	Pass	117500





2.8 1L_15M_M

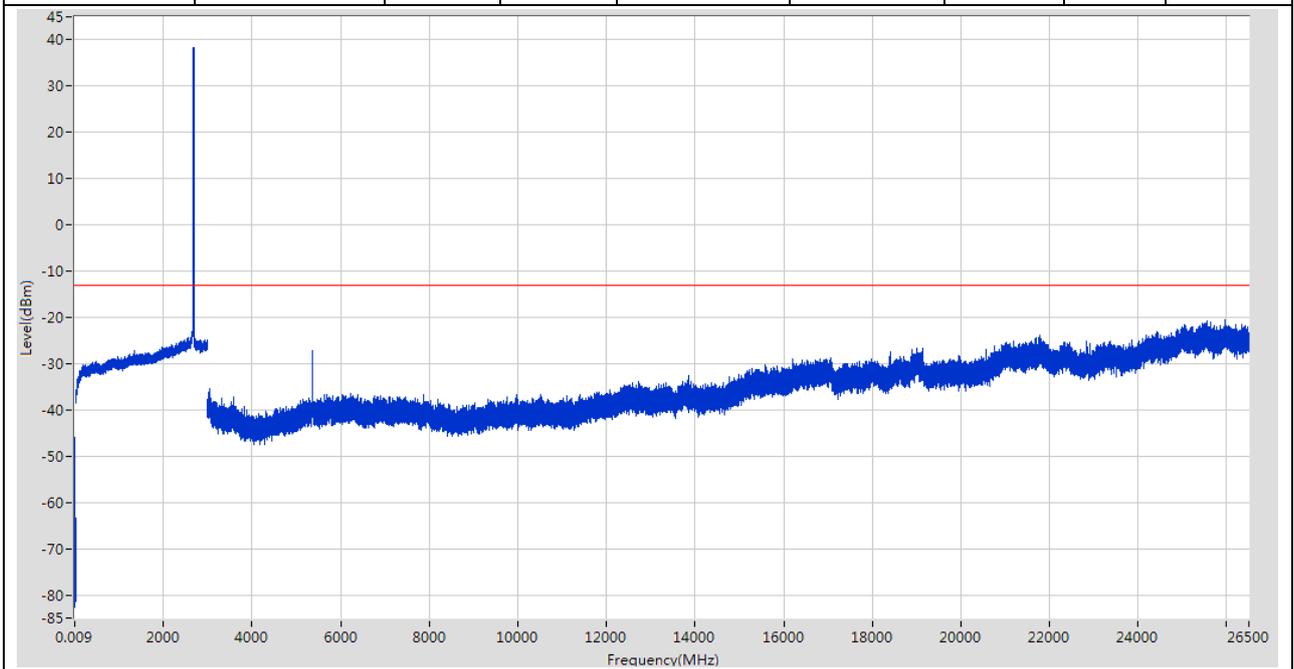
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	9 k	-51.92	-13	Pass	1001
0.15	30	0.01	RMS	156 k	-46.34	-13	Pass	14925
30	3000	1	RMS	2659.77708 9 M	38.41	-13	Fail	14850
3000	26500	1	RMS	25982.5862 02 M	-20.9	-13	Pass	117500





2.9 1L_15M_T

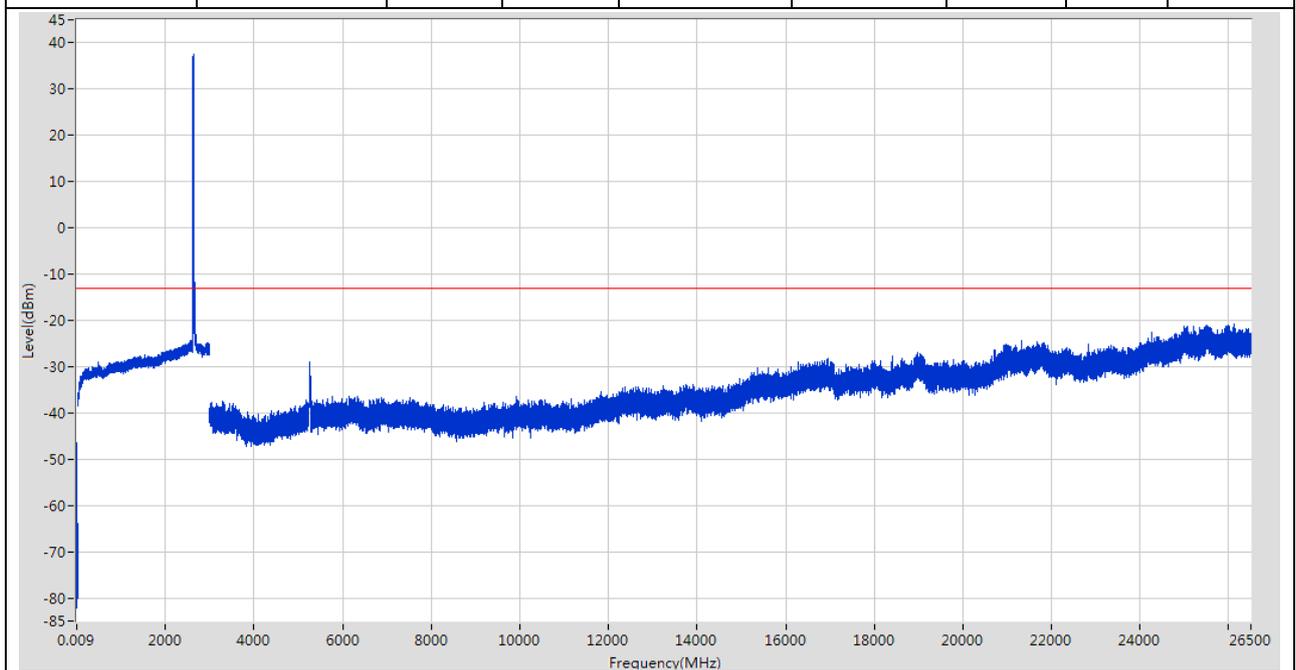
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	9.987 k	-52.21	-13	Pass	1001
0.15	30	0.01	RMS	154 k	-45.95	-13	Pass	14925
30	3000	1	RMS	2687.57896 2 M	38.42	-13	Fail	14850
3000	26500	1	RMS	25961.3856 36 M	-20.44	-13	Pass	117500





2.10 1L_20M_B

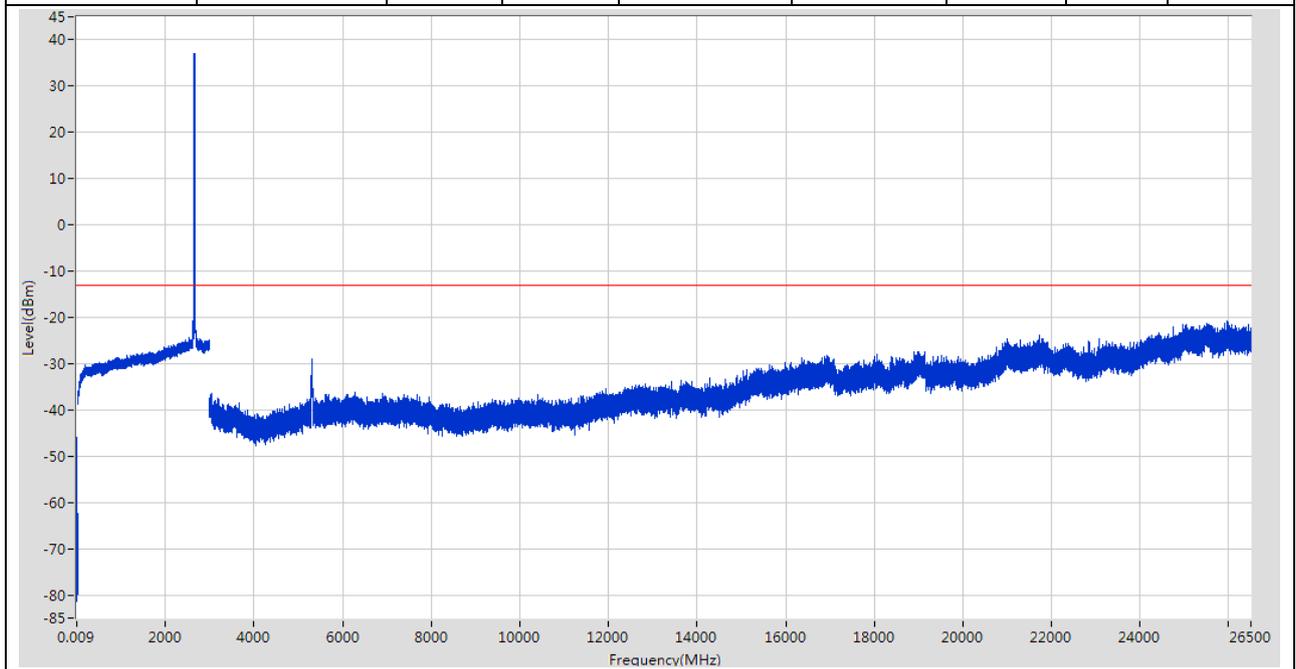
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	10.692 k	-52.8	-13	Pass	1001
0.15	30	0.01	RMS	156 k	-46.34	-13	Pass	14925
30	3000	1	RMS	2633.57532 5 M	37.46	-13	Fail	14850
3000	26500	1	RMS	26109.9895 99 M	-20.78	-13	Pass	117500





2.11 1L_20M_M

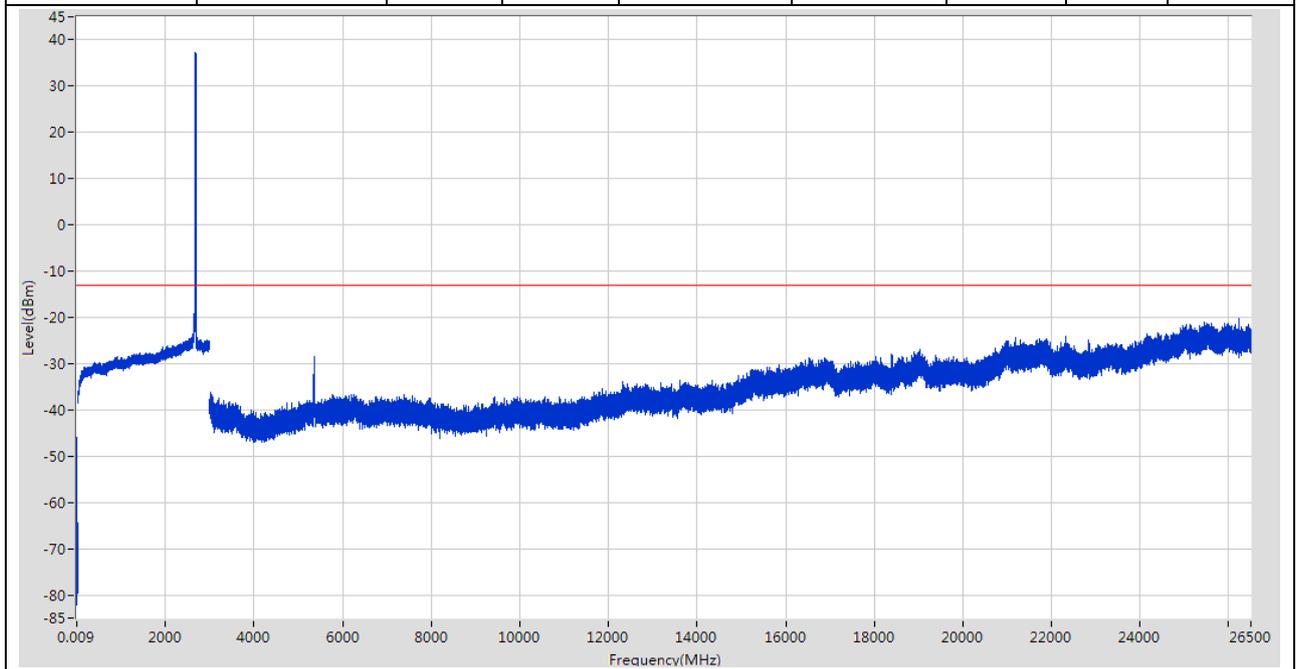
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	9.282 k	-52.05	-13	Pass	1001
0.15	30	0.01	RMS	156 k	-45.96	-13	Pass	14925
30	3000	1	RMS	2662.77729 1 M	37.03	-13	Fail	14850
3000	26500	1	RMS	25959.1855 78 M	-20.79	-13	Pass	117500





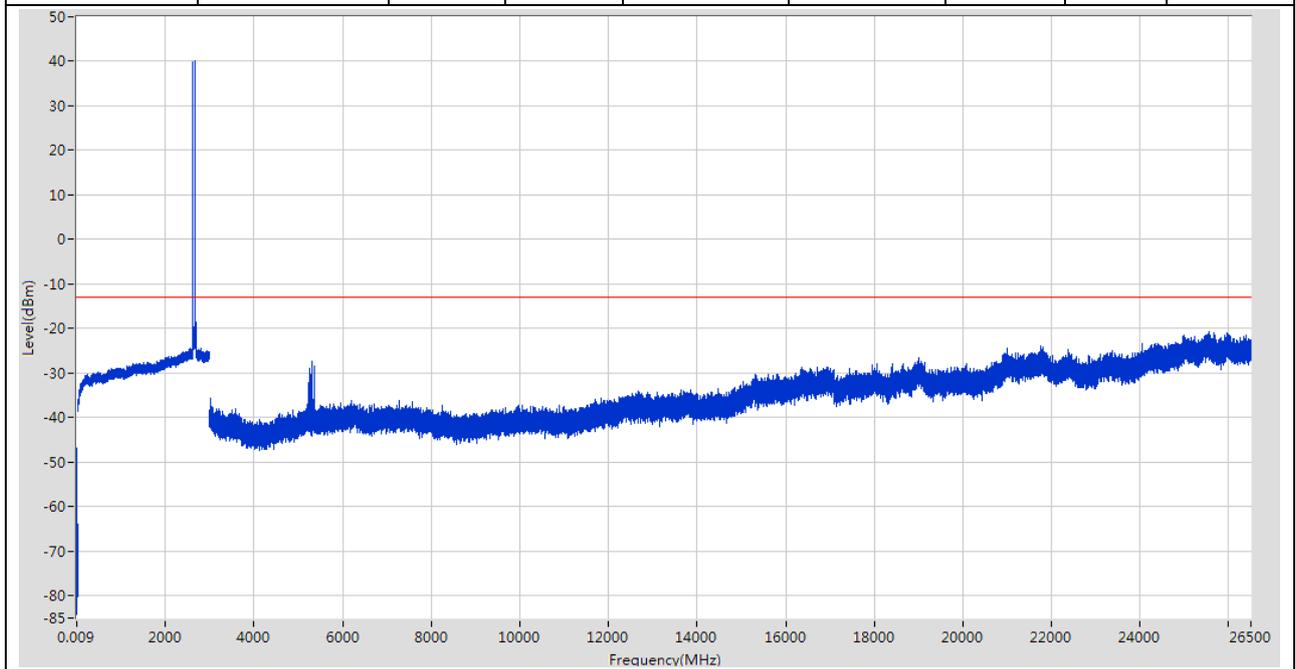
2.12 1L_20M_T

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	9.282 k	-52.81	-13	Pass	1001
0.15	30	0.01	RMS	156 k	-45.99	-13	Pass	14925
30	3000	1	RMS	2679.37840 9 M	37.27	-13	Fail	14850
3000	26500	1	RMS	26220.9925 59 M	-20.34	-13	Pass	117500



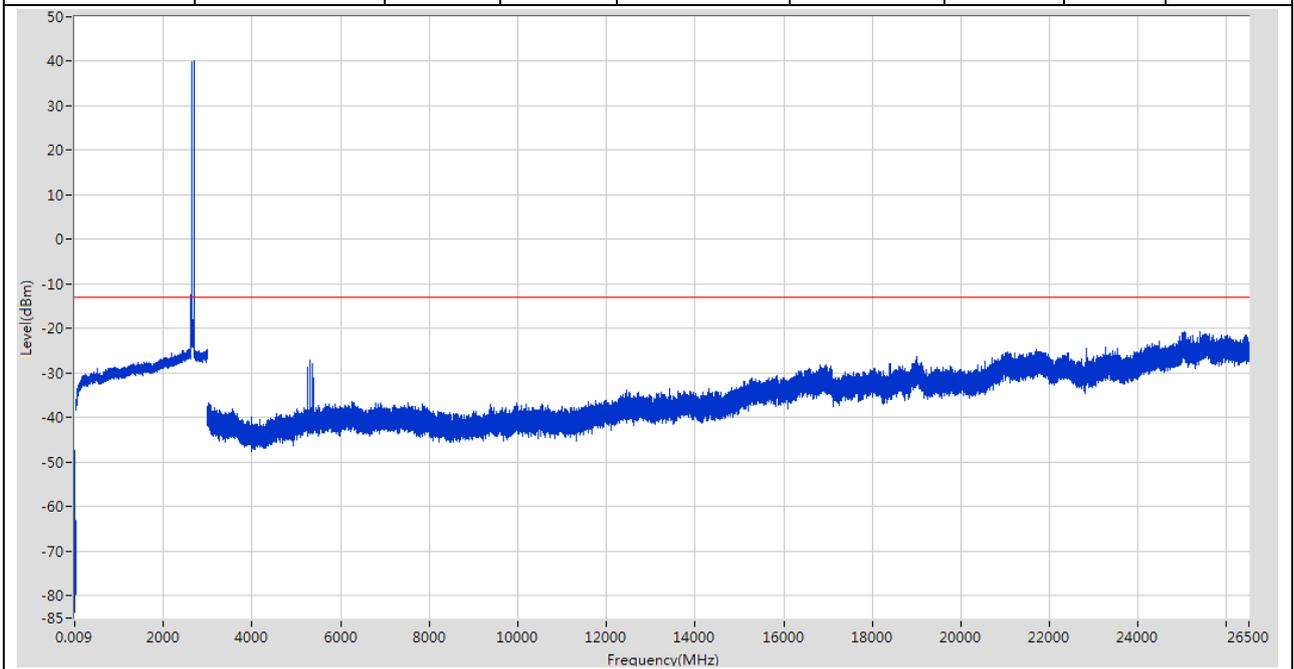
2.13 2L_TM1.1_B

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	9.987 k	-52.68	-13	Pass	1001
0.15	30	0.01	RMS	156 k	-46.9	-13	Pass	14925
30	3000	1	RMS	2677.5782 88 M	40.12	-13	Fail	14850
3000	26500	1	RMS	25553.174 75 M	-20.64	-13	Pass	117500



2.14 2L_TM1.1_T

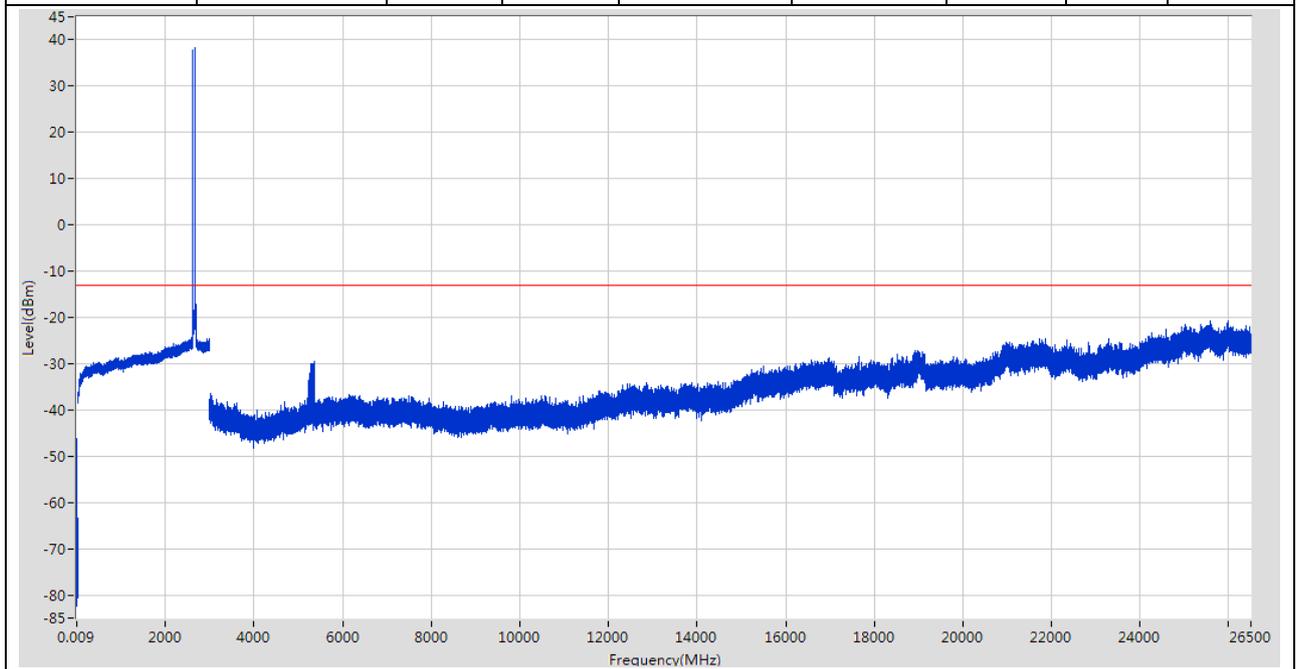
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	12.525 k	-52.81	-13	Pass	1001
0.15	30	0.01	RMS	154 k	-47.4	-13	Pass	14925
30	3000	1	RMS	2686.57889 4 M	40.15	-13	Fail	14850
3000	26500	1	RMS	25041.1610 96 M	-20.58	-13	Pass	117500





2.15 3L_TM1.1_B

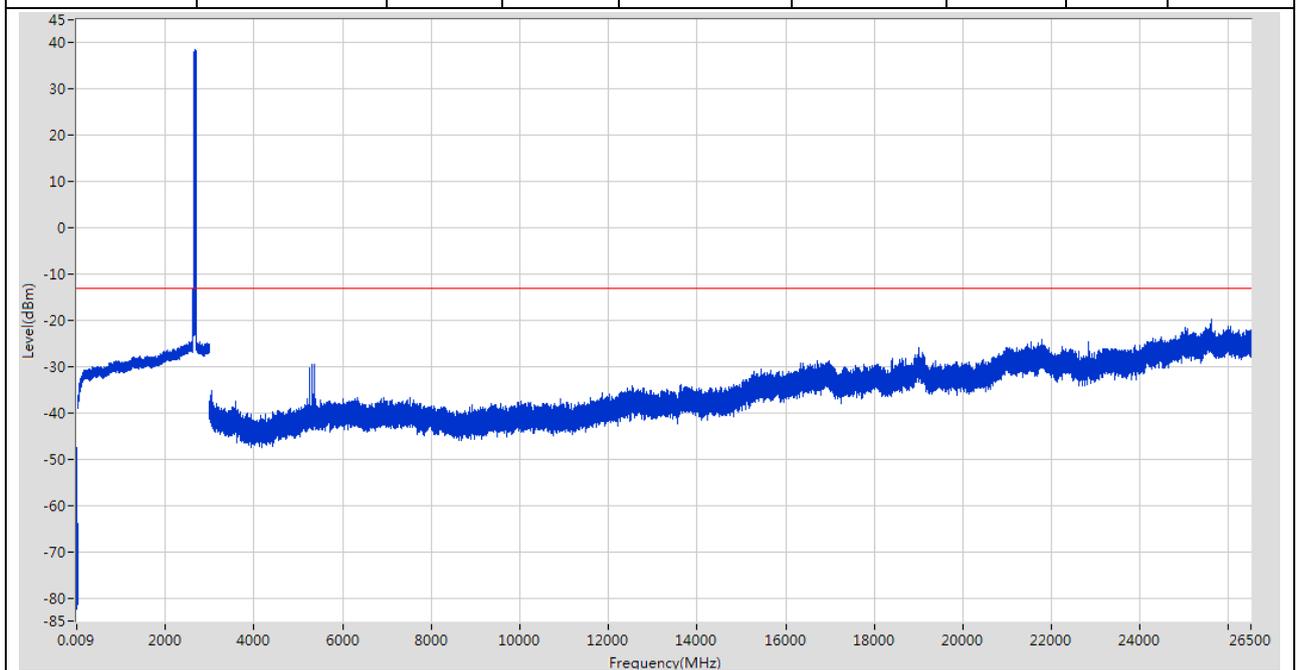
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	10.269 k	-52.8	-13	Pass	1001
0.15	30	0.01	RMS	156 k	-46.3	-13	Pass	14925
30	3000	1	RMS	2672.97797 8 M	38.44	-13	Fail	14850
3000	26500	1	RMS	25571.9752 51 M	-20.65	-13	Pass	117500





2.16 3L_TM1.1_T

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detect or	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	9.141 k	-51.43	-13	Pass	1001
0.15	30	0.01	RMS	156 k	-47.38	-13	Pass	14925
30	3000	1	RMS	2681.37854 4 M	38.52	-13	Fail	14850
3000	26500	1	RMS	25615.1764 03 M	-19.71	-13	Pass	117500





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



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) $E \text{ [dB}\mu\text{V/m]} = \text{EIRP [dBm]} - 20 \cdot \lg(D) + 104.8$; where D is the measurement distance in meters.

(2) $\text{EIRP [dBm]} = \text{ERP [dBm]} + 2.15$.

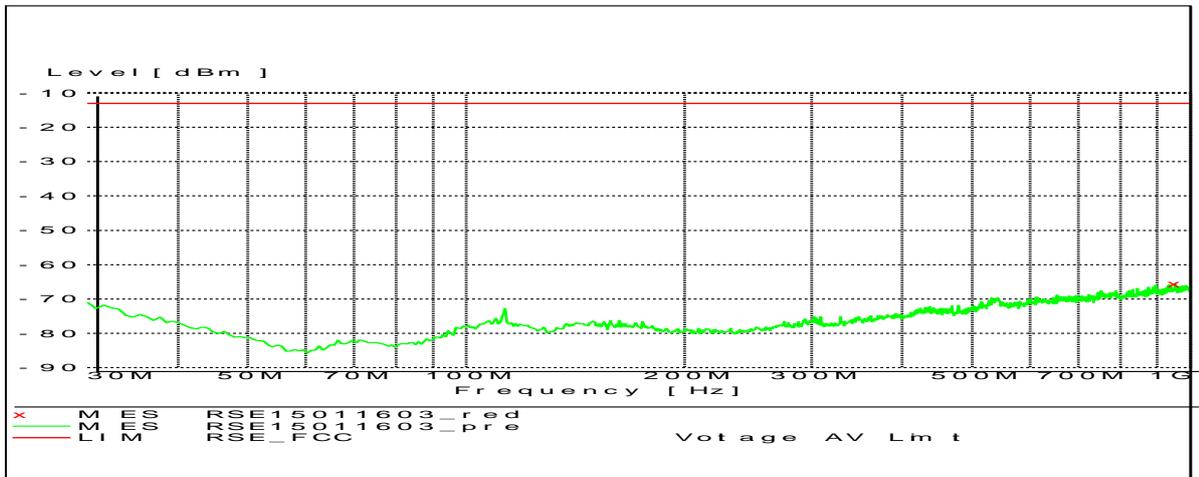
Also according to FCC §2.1053(a), emissions are assumed radiated from halfwave dipole antennas, so the power limit refer to the ERP.

(For example, the fixed power limit -13 dBm can be converted to the field strength limit 84.4 dB μ V/m at 3 m measurement distance, and to 93.95 dB μ V/m at 1 m measurement distance assuming in the far-field region of both the transmit and receive antennas.)

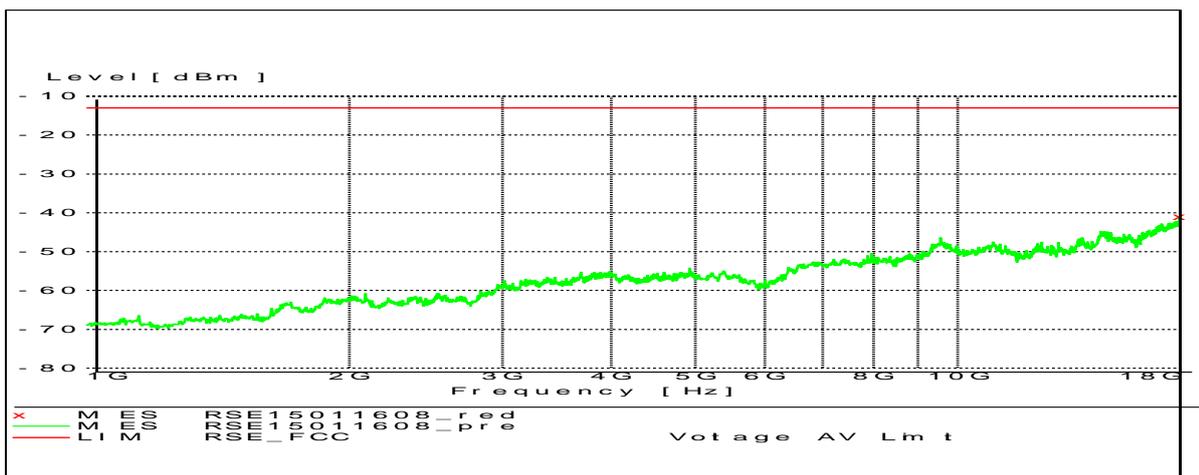
Test Range	EUT Conf.	Maximum Emission	Verdict
30 MHz to 1 GHz	1L_5M_M	< 13	Pass
1 GHz to 18 GHz	1L_5M_M	< 13	Pass
18 GHz to 26.5 GHz	1L_5M_M	< 13	Pass

2 Test Plot

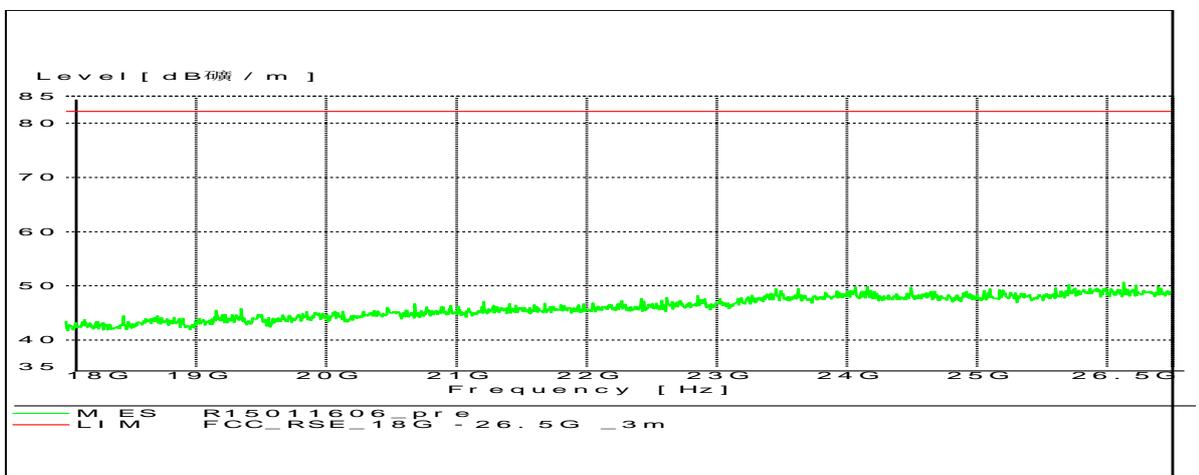
2.1 Test range of "30 MHz to 1 GHz"



2.2 Test range of "1 GHz to 18 GHz"



2.3 Test range of "18 GHz to 26.5 GHz"





Appendix F: Frequency Stability



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_B	-30 °C	100%	+0.12569	0.00005	0.00005	Pass
	-20 °C	100%	+1.2244	0.00046	0.00046	Pass
	-10 °C	100%	+0.55402	0.00021	0.00021	Pass
	0 °C	100%	-3.5306	-0.00133	-0.00133	Pass
	+10 °C	100%	-2.2608	-0.00085	-0.00085	Pass
	+20 °C	85 %	0.5812	0.00022	0.00022	Pass
	+20 °C	100 %	0.33899	0.00013	--	Pass
	+20 °C	115 %	-0.68653	-0.00026	-0.00026	Pass
	+30 °C	100%	-2.078	-0.00078	-0.00078	Pass
	+40 °C	100%	-4.8648	-0.00183	-0.00183	Pass
	+50 °C	100%	-0.47708	-0.00018	-0.00018	Pass

1.2 Frequency Range

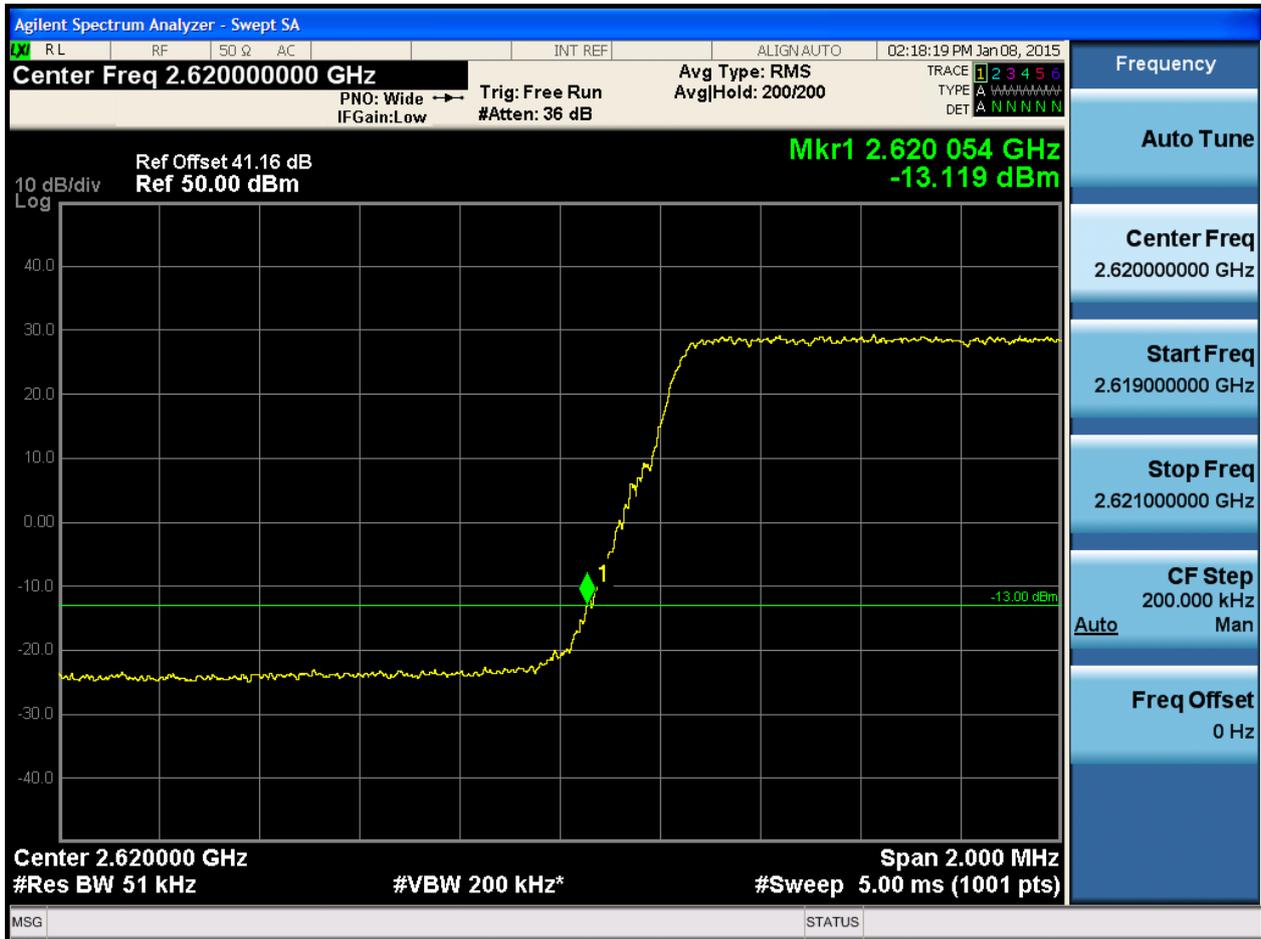
EUT Conf.	Reference Point, fL/fH [MHz]	Frequency Range, fL – f(offset) / fH + f(offset) [MHz]	Verdict
1L_5M_B	2620.05	2620.05	Pass
1L_5M_T	2689.94	2689.94	Pass
1L_10M_B	2620.12	2620.12	Pass
1L_10M_T	2689.86	2689.86	Pass
1L_15M_B	2620.25	2620.25	Pass
1L_15M_T	2689.74	2689.74	Pass
1L_20M_B	2620.38	2620.38	Pass
1L_20M_T	2689.63	2689.63	Pass



2 Test Plot

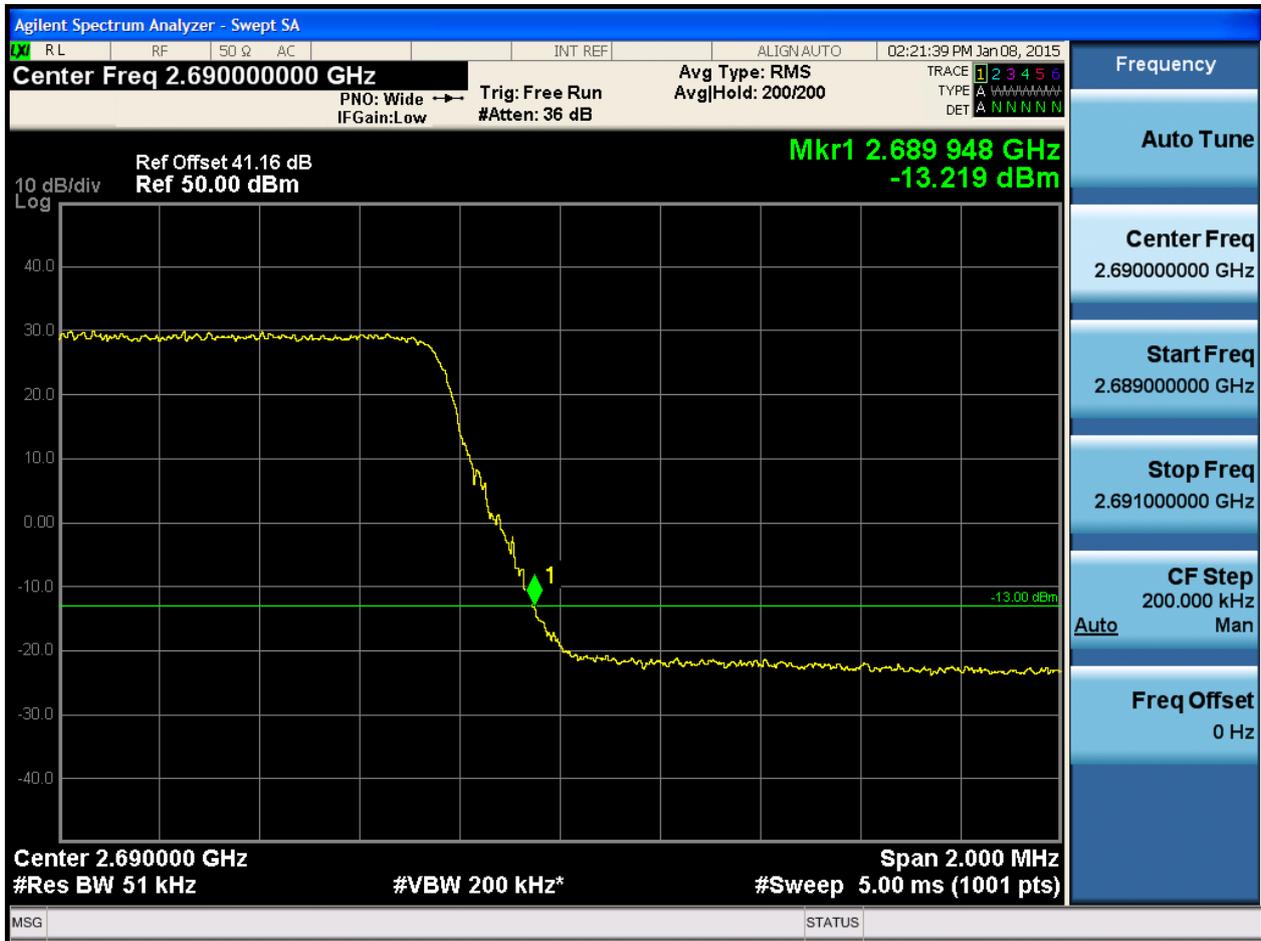
NOTE: Only the test plots for the measurements of Frequency Range are supplied.

2.1 1L_5M_B



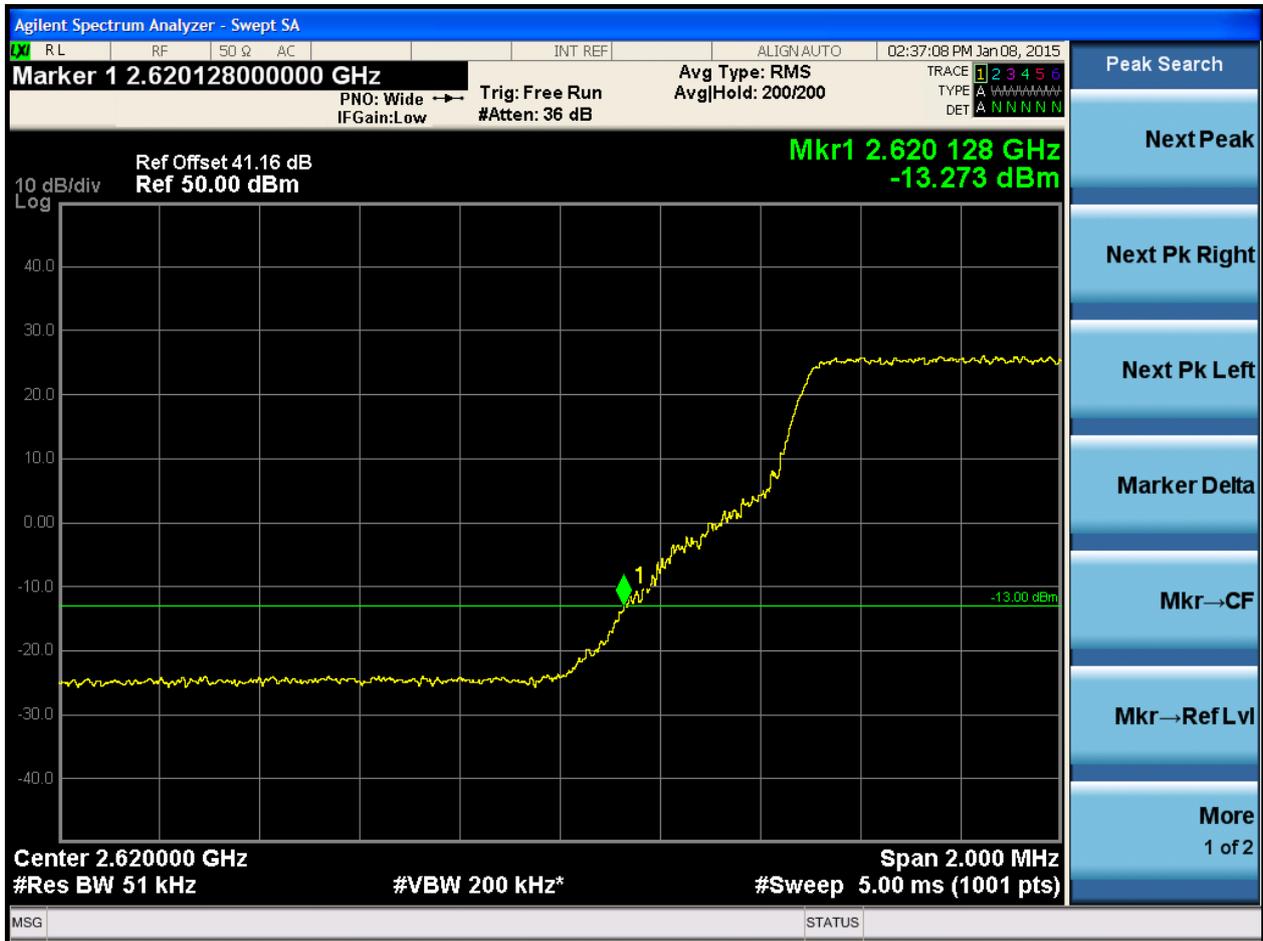


2.2 1L_5M_T





2.3 1L_10M_B





2.4 1L_10M_T





2.5 1L_15M_B



2.6 1L_15M_T





2.8 1L_20M_T





Appendix G: Receiver Spurious Emissions



(Not applicable)

END