



Appendix A2: 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 practical maximum antenna gain may exceed the value as described 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.	Channel Power [dBm]	Total Channel Power [W]	Antenna Gain [dBi]	EIRP [W]	ERP [W]	Verdict
5M_B	20.32	0.215	4	0.541	---	Pass
5M_M	20.56	0.228	4	0.572	---	Pass
5M_T	20.34	0.216	4	0.543	---	Pass
10M_B	20	0.200	4	0.502	---	Pass
10M_M	20.59	0.229	4	0.575	---	Pass
10M_T	20.17	0.208	4	0.522	---	Pass
15M_B	20.03	0.201	4	0.506	---	Pass
15M_M	20.4	0.219	4	0.551	---	Pass
15M_T	20.35	0.217	4	0.545	---	Pass
20M_B	19.98	0.199	4	0.500	---	Pass
20M_M	20.34	0.216	4	0.543	---	Pass
20M_T	20.33	0.216	4	0.542	---	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 practical maximum antenna gain may exceed the value as described below, and if exceed, the combination of the practical output power and the practical antenna gain should NOT exceed the required EIRP limit.

EUT Conf	Channel Power Spectral Density [dBm/MHz]	Total Channel Power Spectral Density [dBm/MHz]	Antenna Gain [dBi]	EIRP [W/MHz]	Verdict
5M_B	27.43	30.43	4	2.780	Pass
5M_M	27.7	30.7	4	2.958	Pass
5M_T	27.15	30.15	4	2.606	Pass

1.3 Peak-to-Average Ratio

(Not applicable)

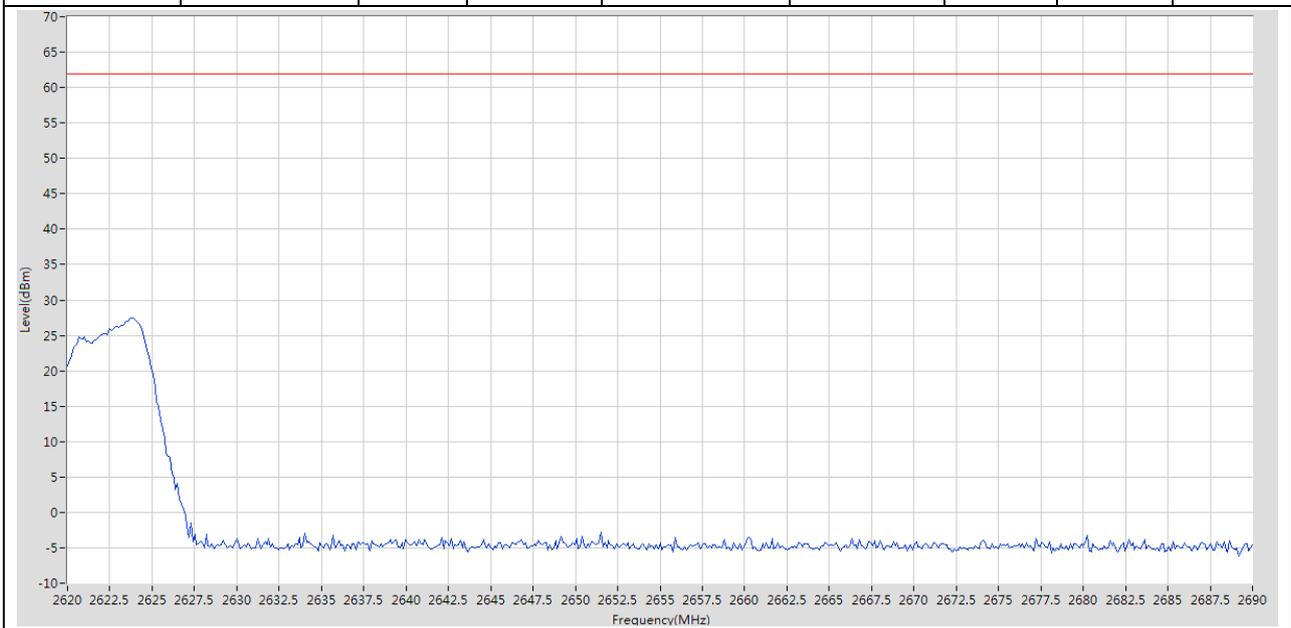
2 Test Plot

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

2.1 Power Spectral Density

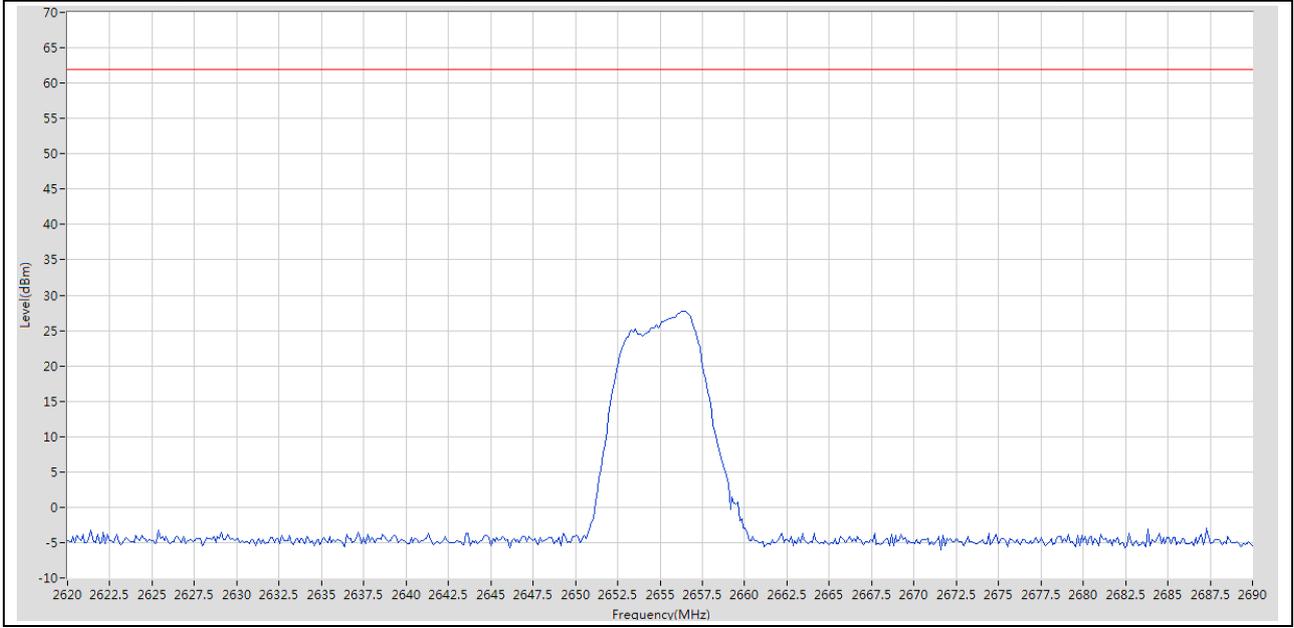
2.1.1 5M_B

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	Peak	2623.814103 M	27.43	62	Pass	625



2.1.2 5M_M

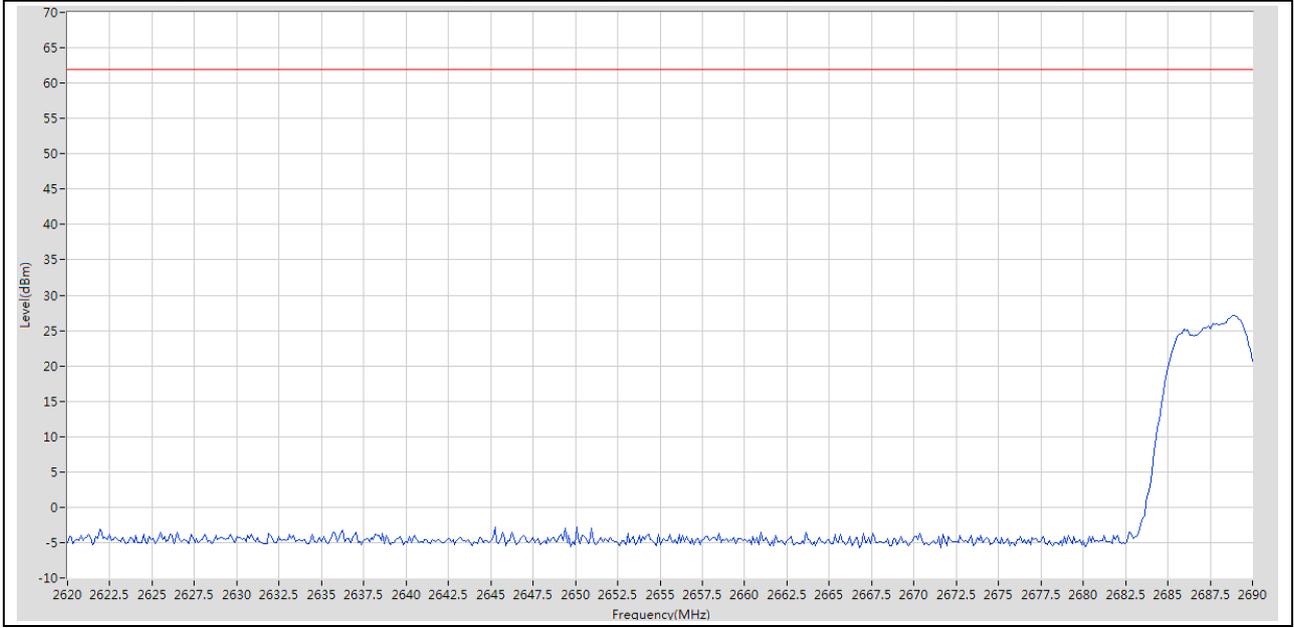
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	Peak	2656.458333 M	27.7	62	Pass	625





2.1.3 5M_T

Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
2620	2690	1	Peak	2688.878205 M	27.15	62	Pass	625





2.2 Peak-to-Average Ratio

(Not applicable)



Appendix B2: Bandwidth



1 Result Table

1.1 Occupied Bandwidth

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
5M_B	4.487179	---
5M_M	4.487179	---
5M_T	4.507212	---
10M_B	9.054487	---
10M_M	9.054487	---
10M_T	9.054487	---
15M_B	13.461538	---
15M_M	13.461538	---
15M_T	13.521635	---
20M_B	17.833333	---
20M_M	17.888889	---
20M_T	17.888889	---

1.2 Emission Bandwidth

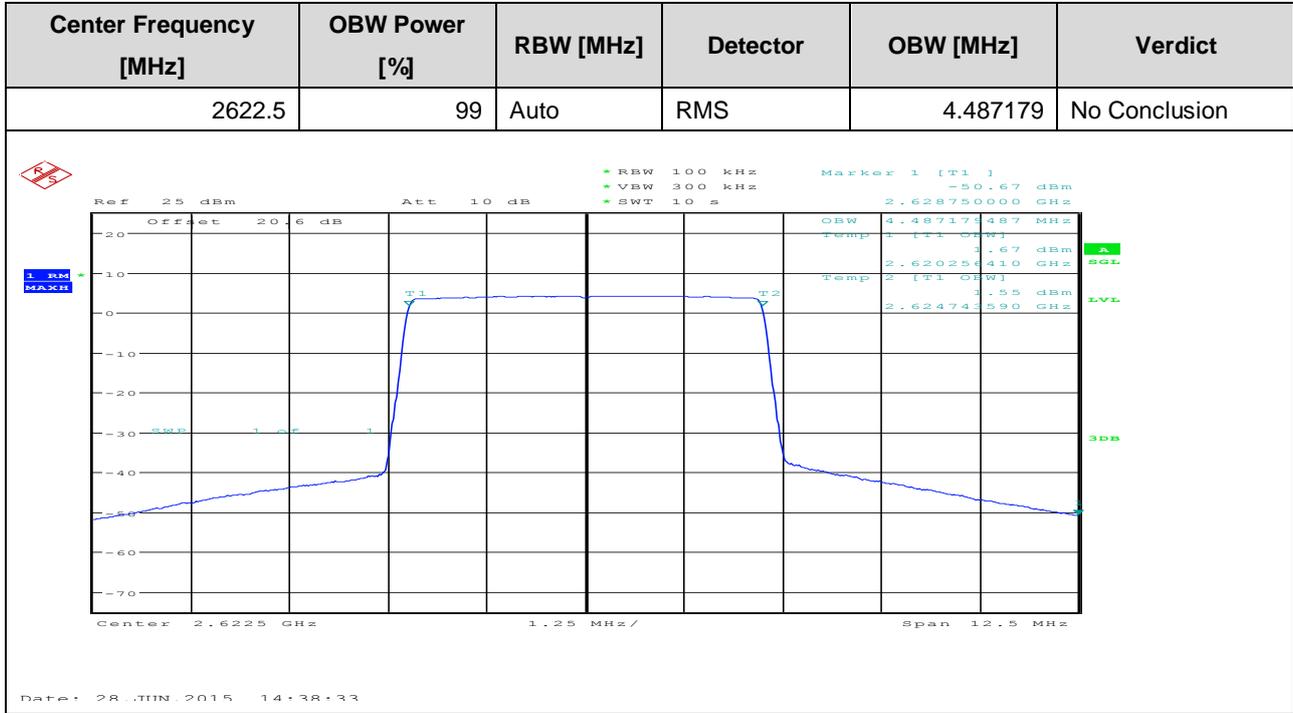
EUT Conf.	Emission Bandwidth, -26 dBc [MHz]	Verdict
5M_B	4.829952	---
5M_M	4.839936	---
5M_T	4.819968	---
10M_B	9.380096	---
10M_M	9.400064	---
10M_T	9.389824	---
15M_B	14.082048	---
15M_M	14.082048	---
15M_T	14.032896	---
20M_B	18.839808	---
20M_M	18.759936	---
20M_T	18.779904	---



2 Test Plot

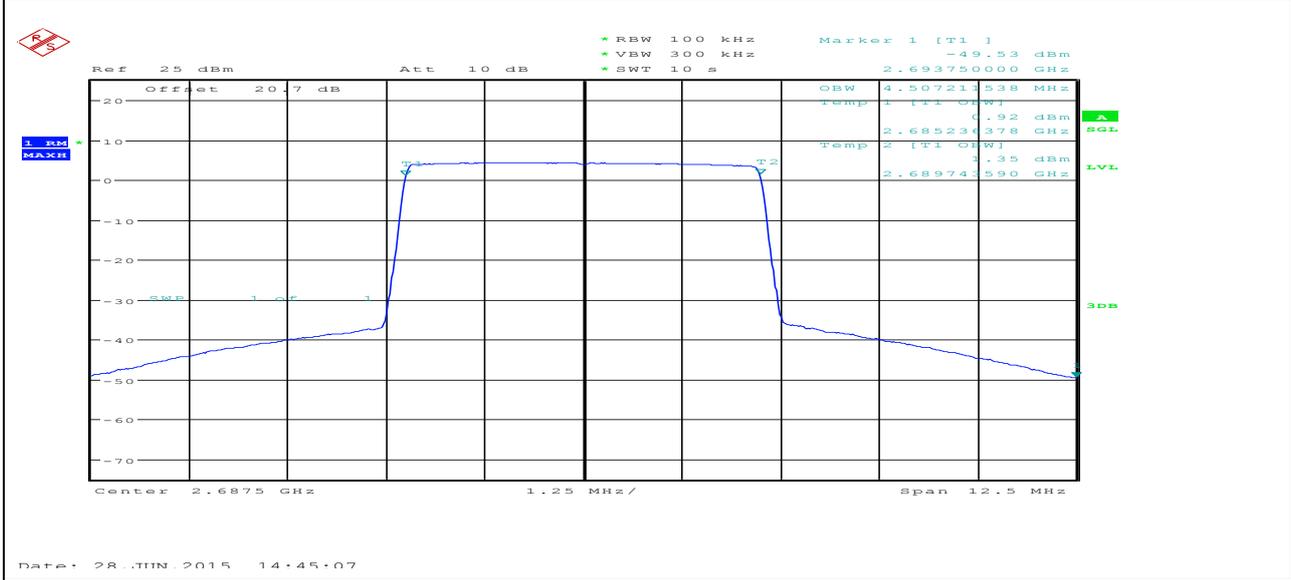
2.1 Occupied Bandwidth

2.1.1 5M_B



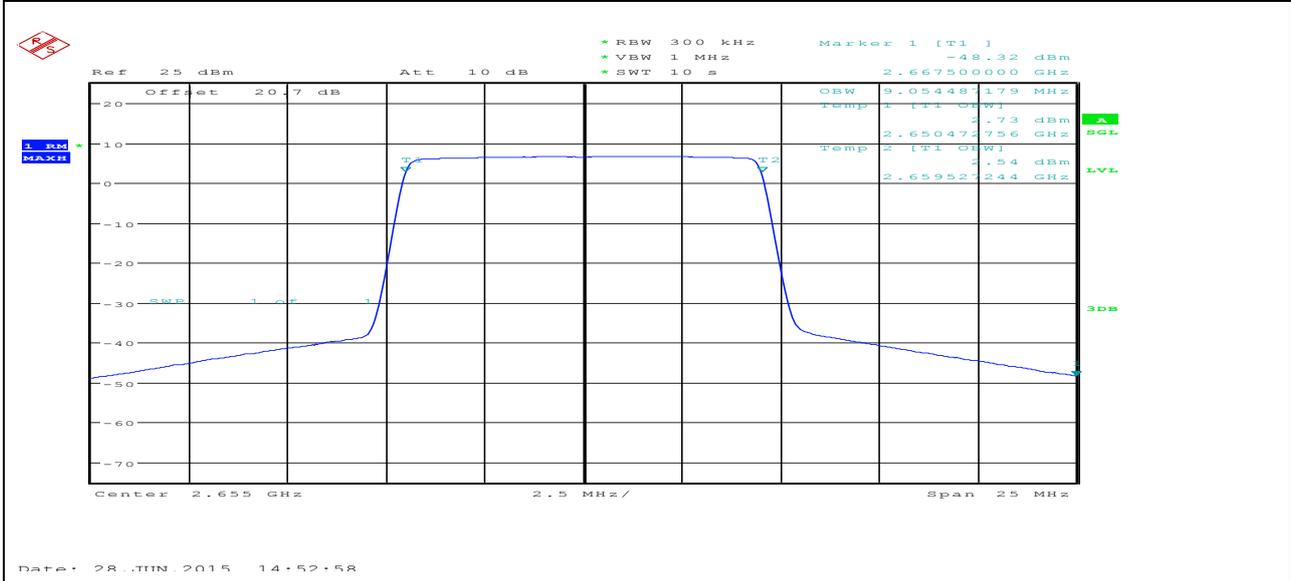
2.1.3 5M_T

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2687.5	99	Auto	RMS	4.507212	No Conclusion



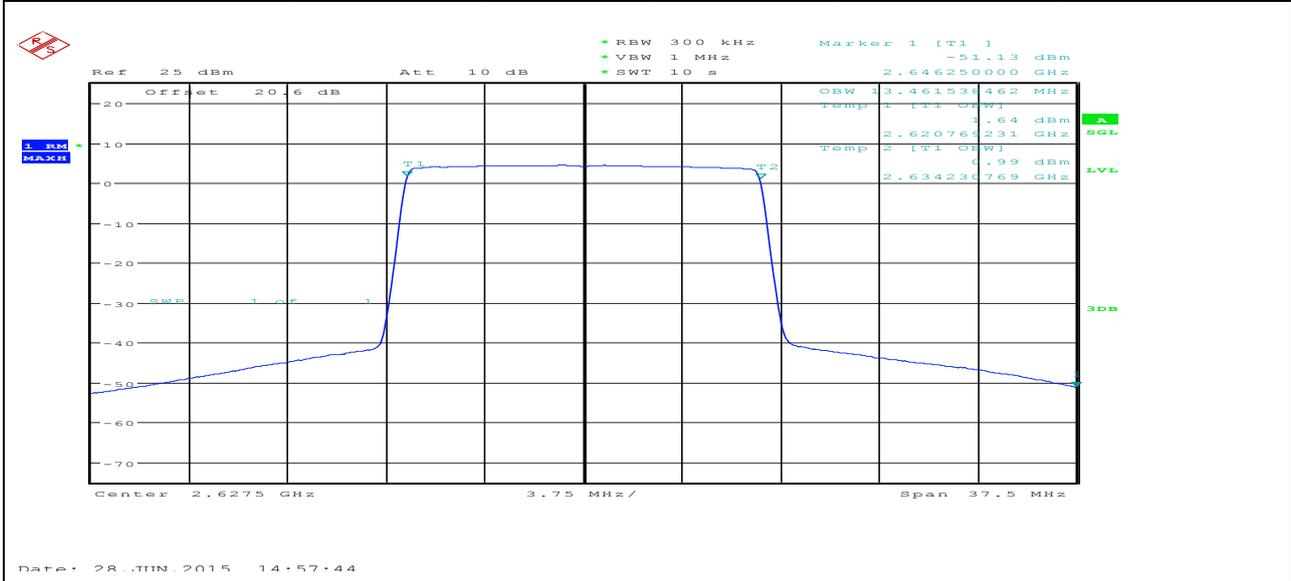
2.1.5 10M_M

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2655	99	Auto	RMS	9.054487	No Conclusion



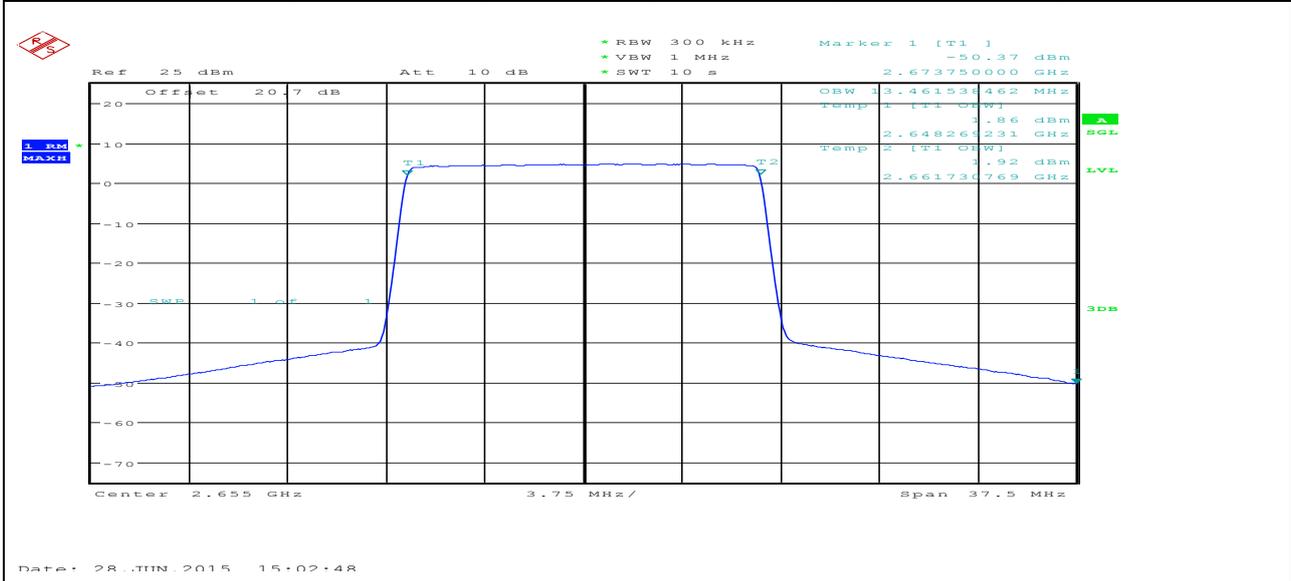
2.1.7 15M_B

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2627.5	99	Auto	RMS	13.461538	No Conclusion



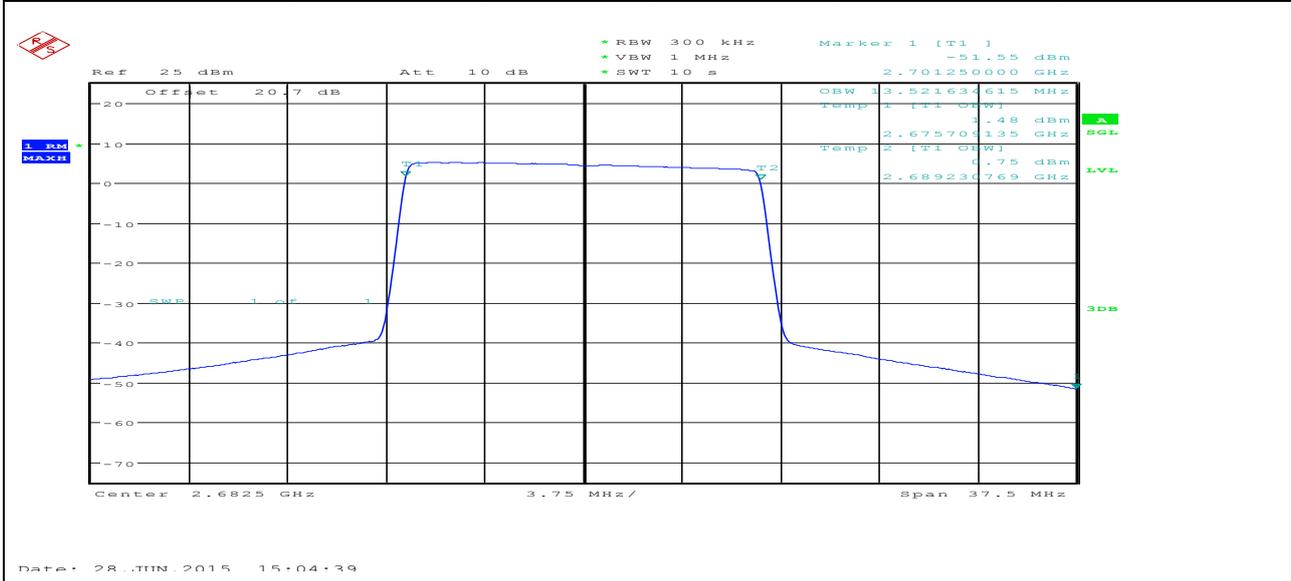
2.1.8 15M_M

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2655	99	Auto	RMS	13.461538	No Conclusion



2.1.9 15M_T

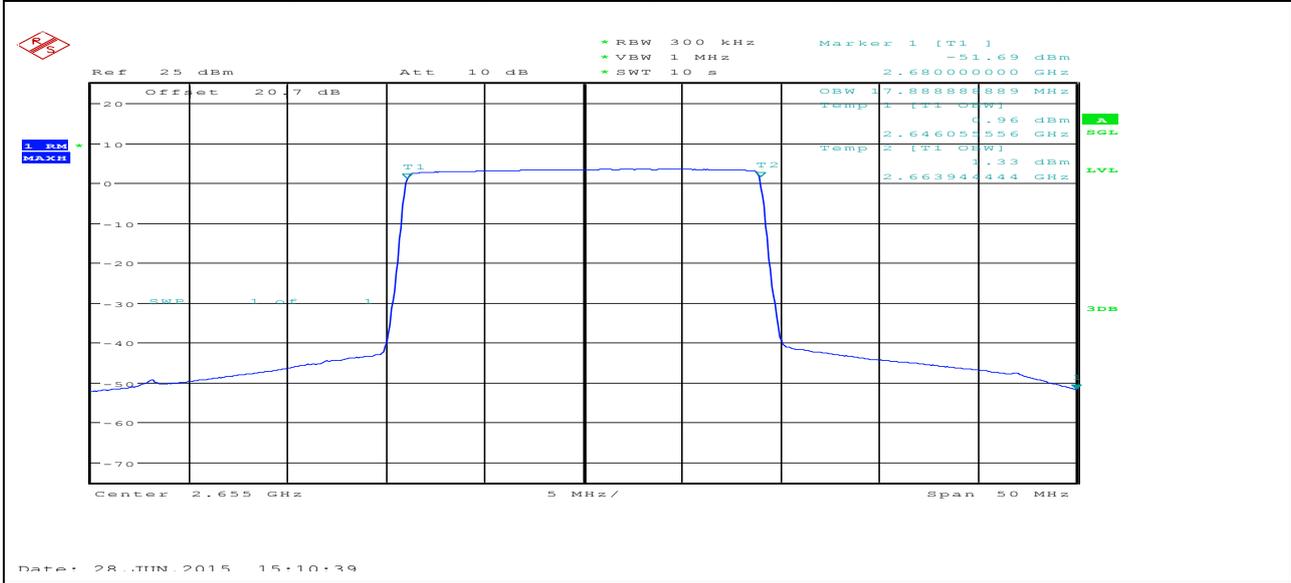
Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2682.5	99	Auto	RMS	13.521635	No Conclusion



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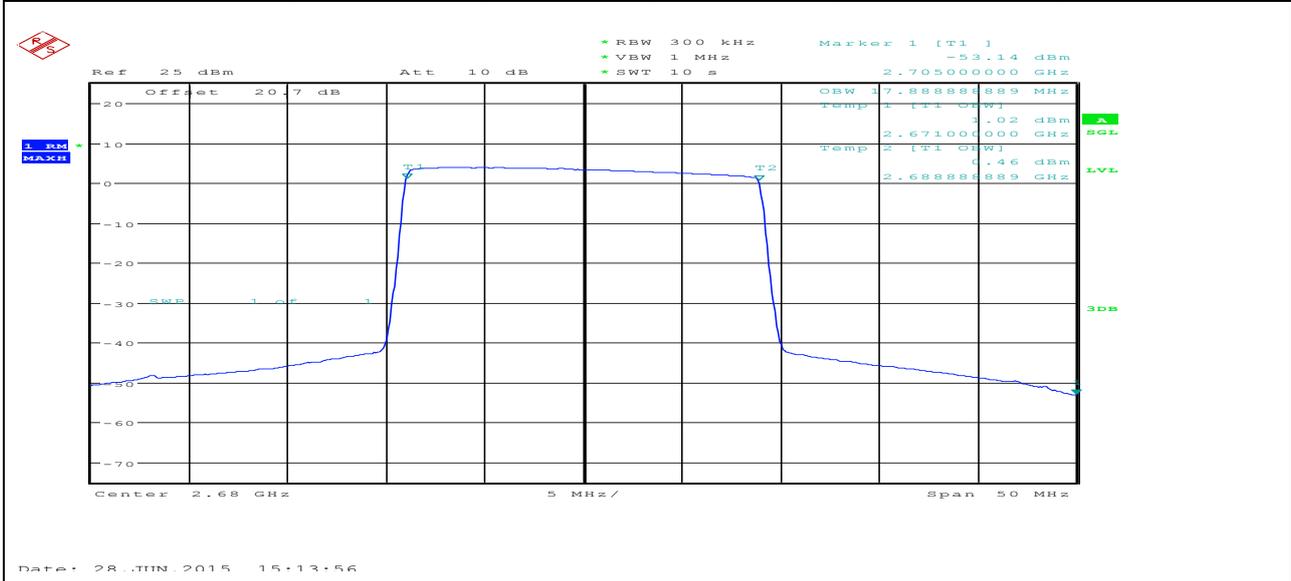
2.1.11 20M_M

Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2655	99	Auto	RMS	17.888889	No Conclusion



2.1.12 20M_T

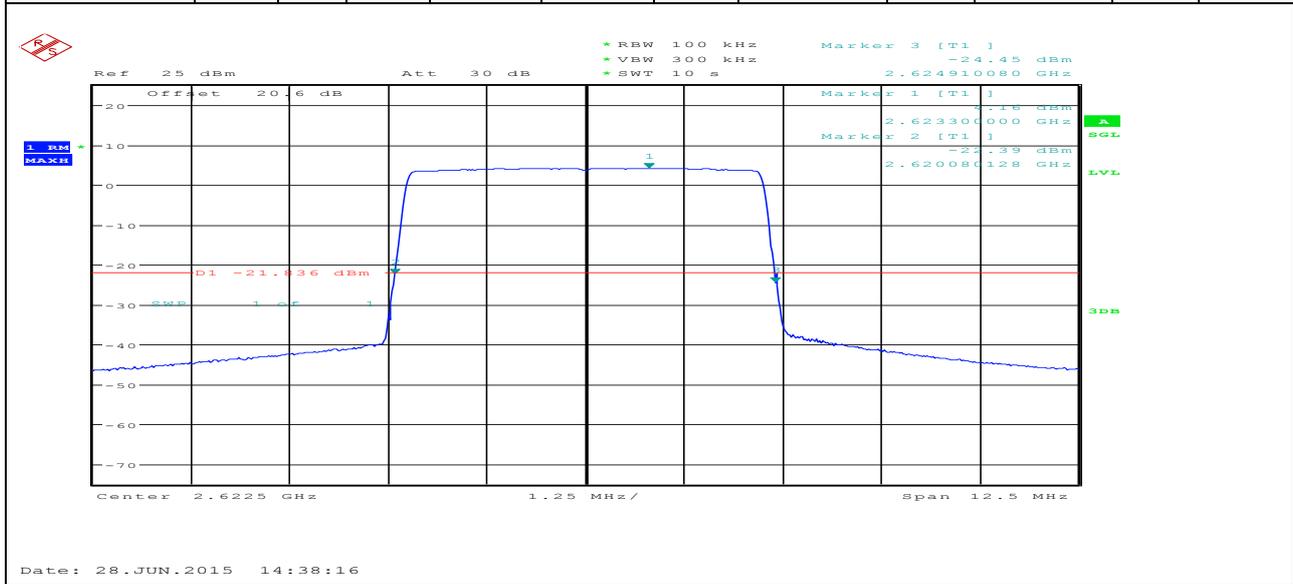
Center Frequency [MHz]	OBW Power [%]	RBW [MHz]	Detector	OBW [MHz]	Verdict
2680	99	Auto	RMS	17.888889	No Conclusion



2.2 Emission Bandwidth (-26dBc)

2.2.1 5M_B

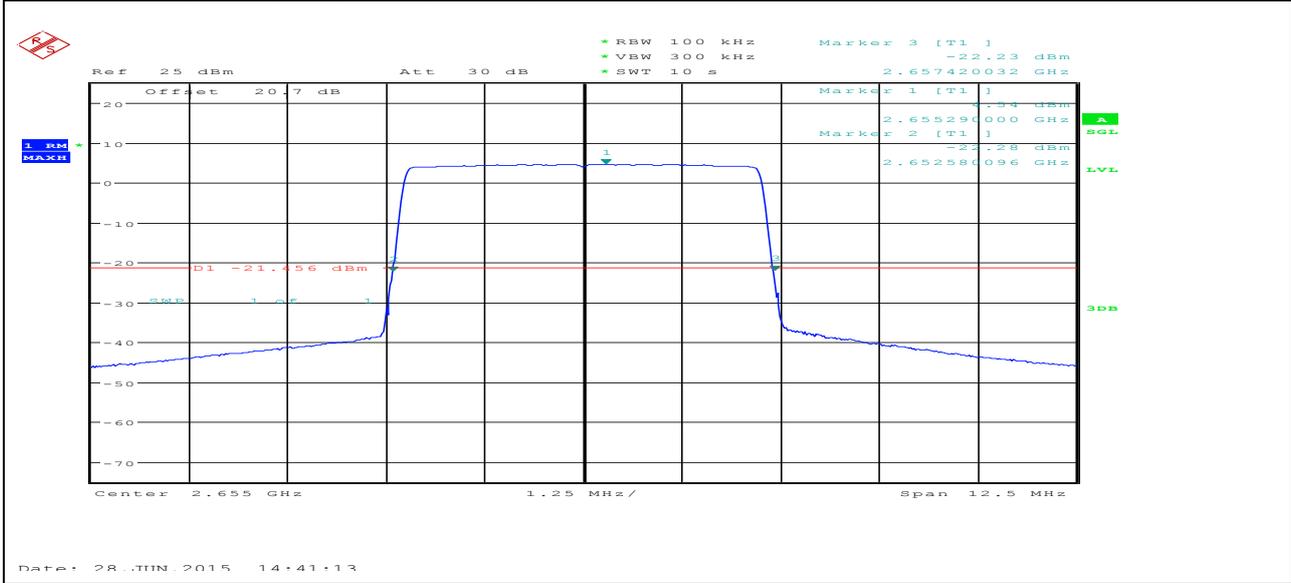
Center Frequency [MHz]	Span [MHz]	nd B [dB]	RB W [MHz]	Detect or	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2622.5	12.5	26	0.1	RMS	4.8299 52	5	2620.0801 28	2620	2624.910 08	2690	Pass





2.2.2 5M_M

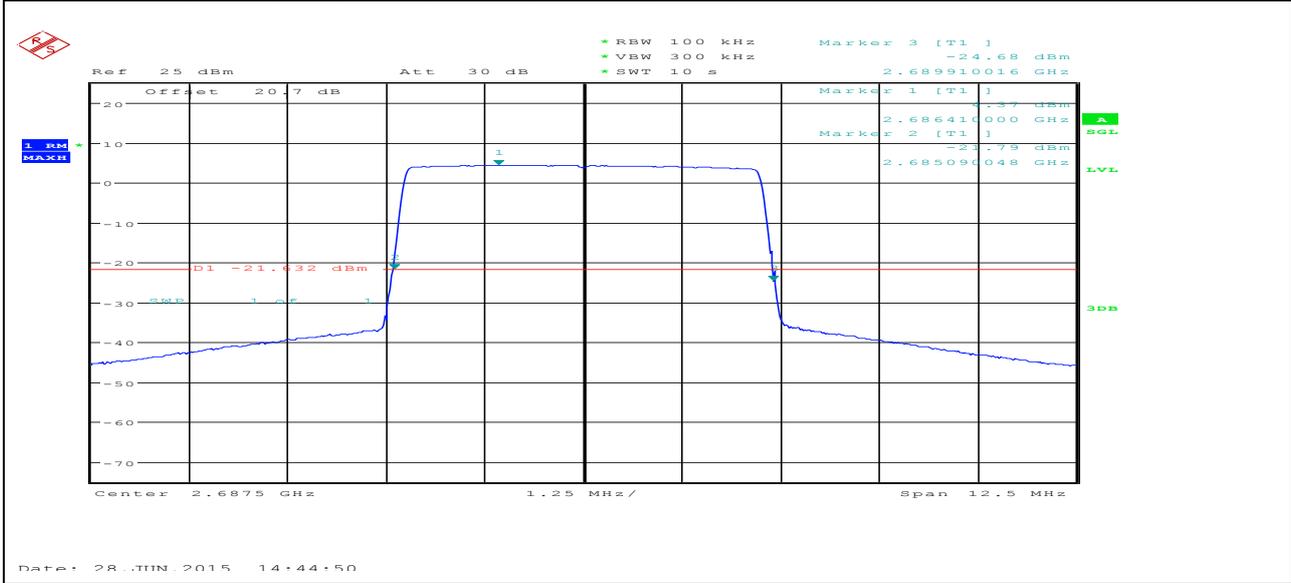
Center Frequency[MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detector	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2655	12.5	26	0.1	RMS	4.8399 36	5	2652.5800 96	2620	2657.4200 32	2690	Pass





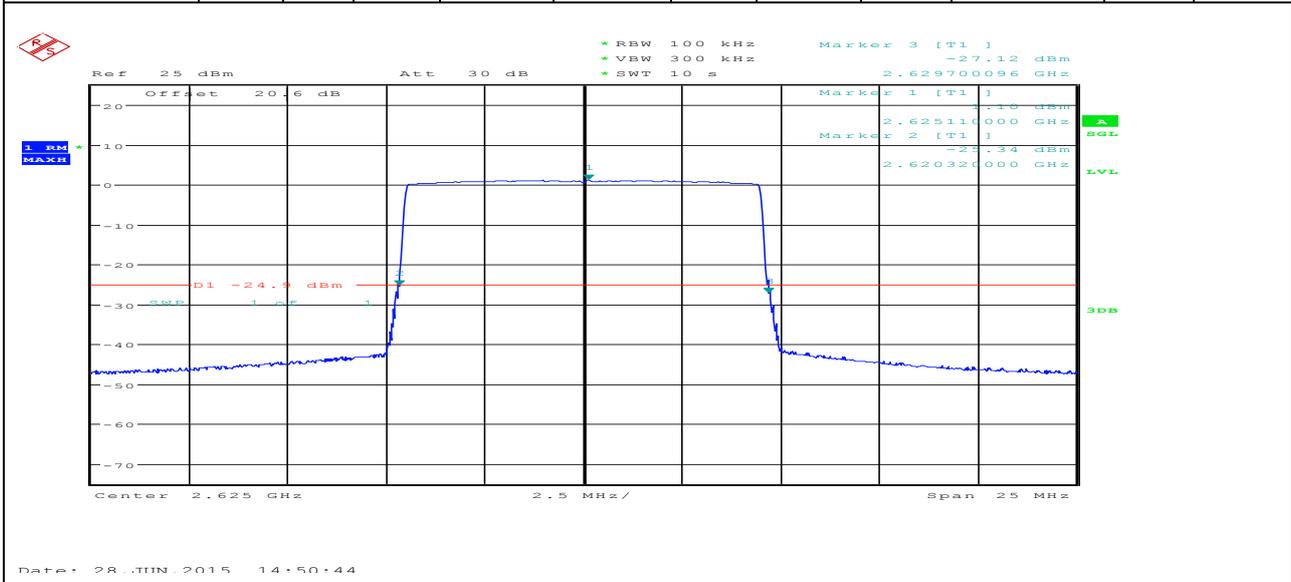
2.2.3 5M_T

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	4.819968	5	2685.090048	2620	2689.910016	2690	Pass



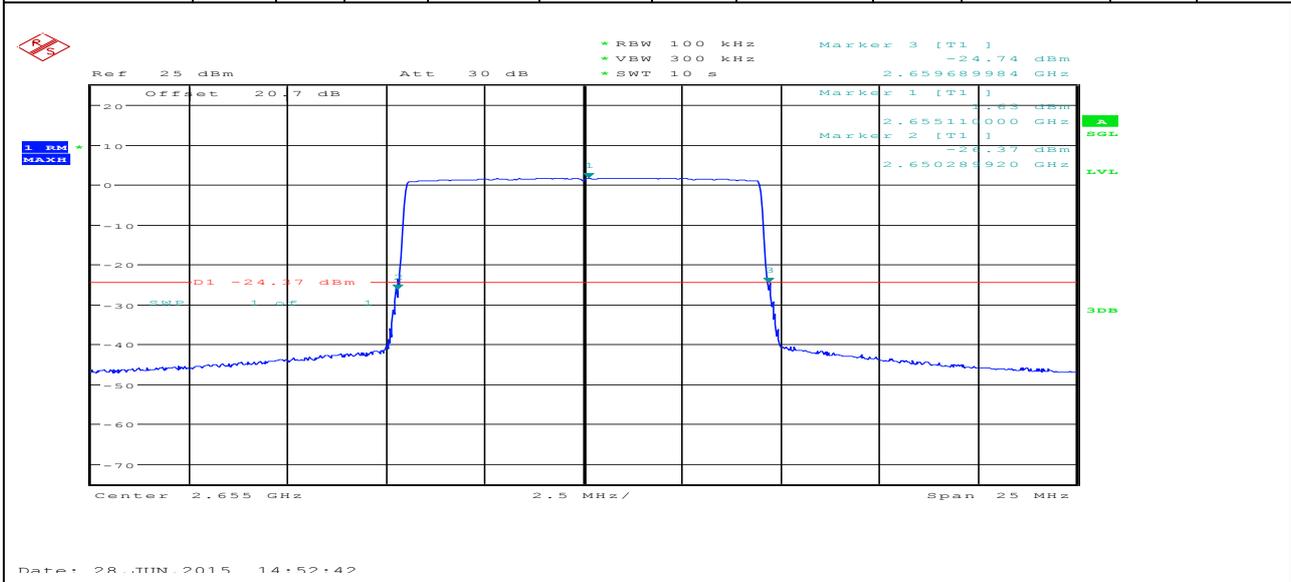
2.2.4 10M_B

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
2625	25	26	0.1	RMS	9.380096	10	2620.32	2620	2629.700096	2690	Pass



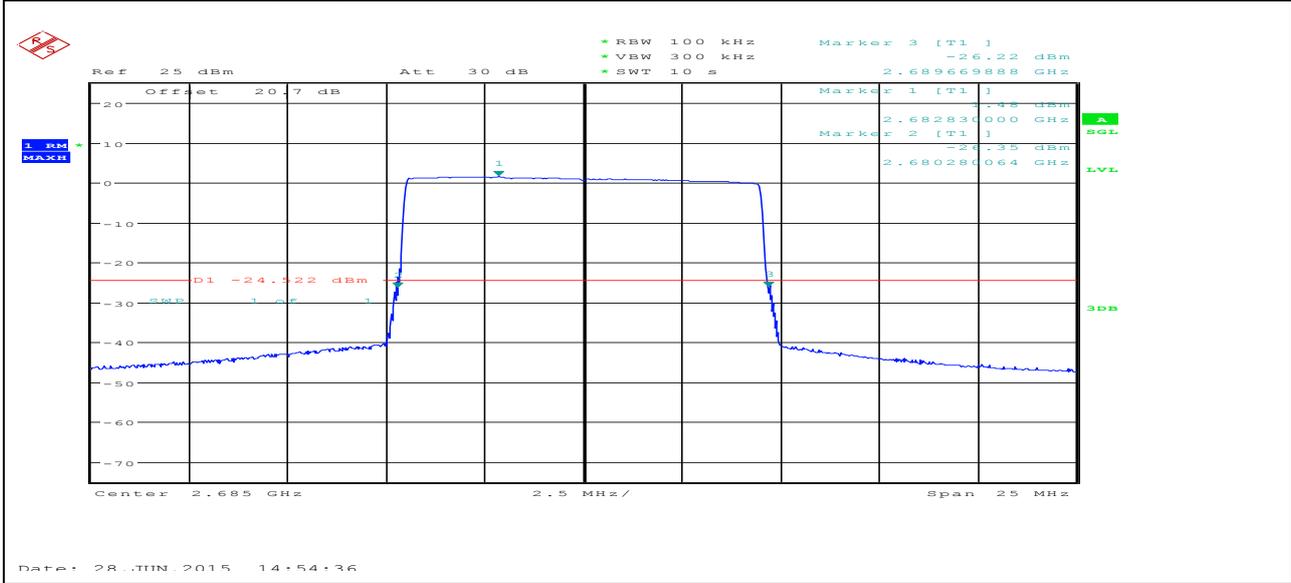
2.2.5 10M_M

Center Frequency [MHz]	Span [MHz]	nd B [dB]	RB W [MHz]	Detect or	nd B W [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2655	25	26	0.1	RMS	9.4000 64	10	2650.289 92	2620	2659.6899 84	2690	Pass



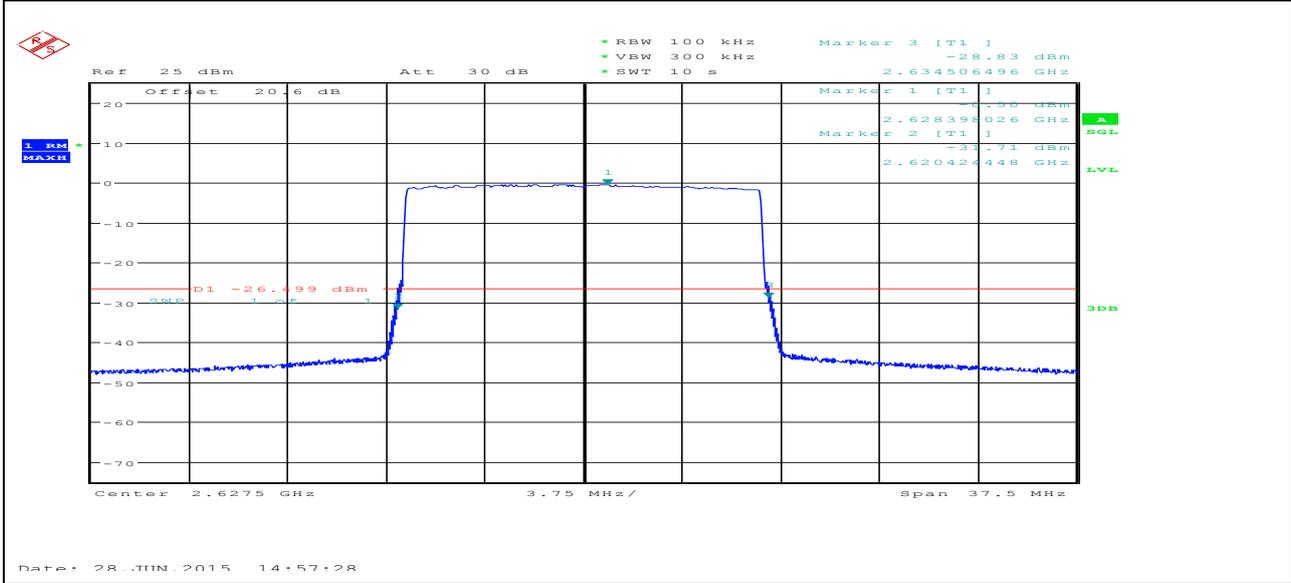
2.2.6 10M_T

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	9.3898 24	10	2680.2800 64	2620	2689.6698 88	2690	Pass



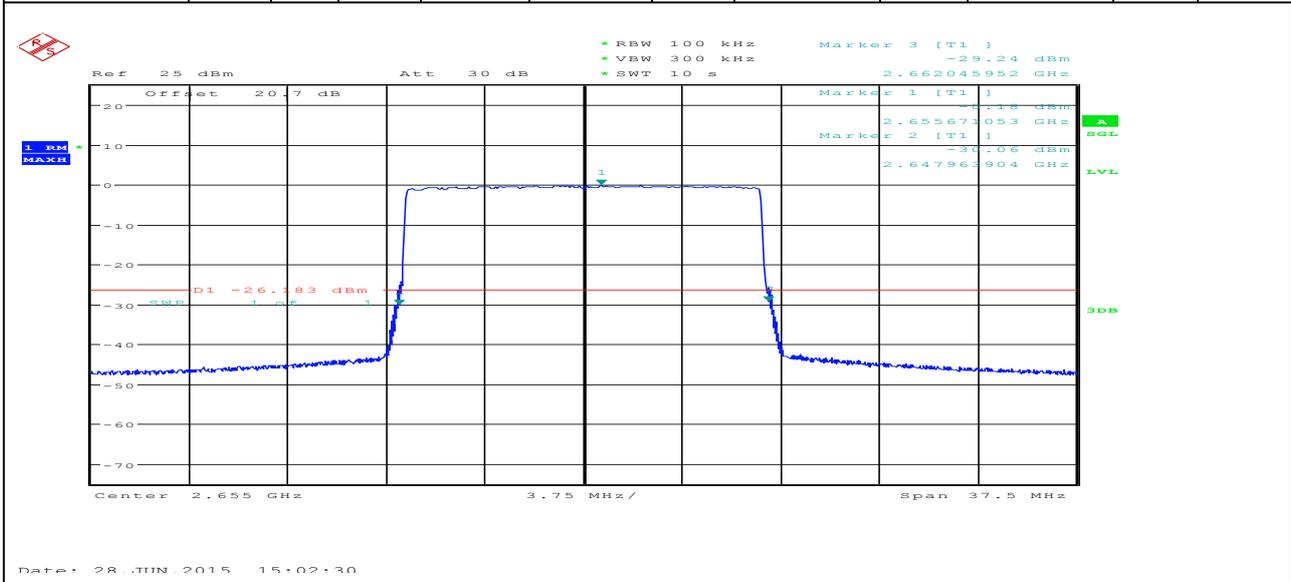
2.2.7 15M_B

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
2627.5	37.5	26	0.1	RMS	14.082048	15	2620.424448	2620	2634.506496	2690	Pass



2.2.8 15M_M

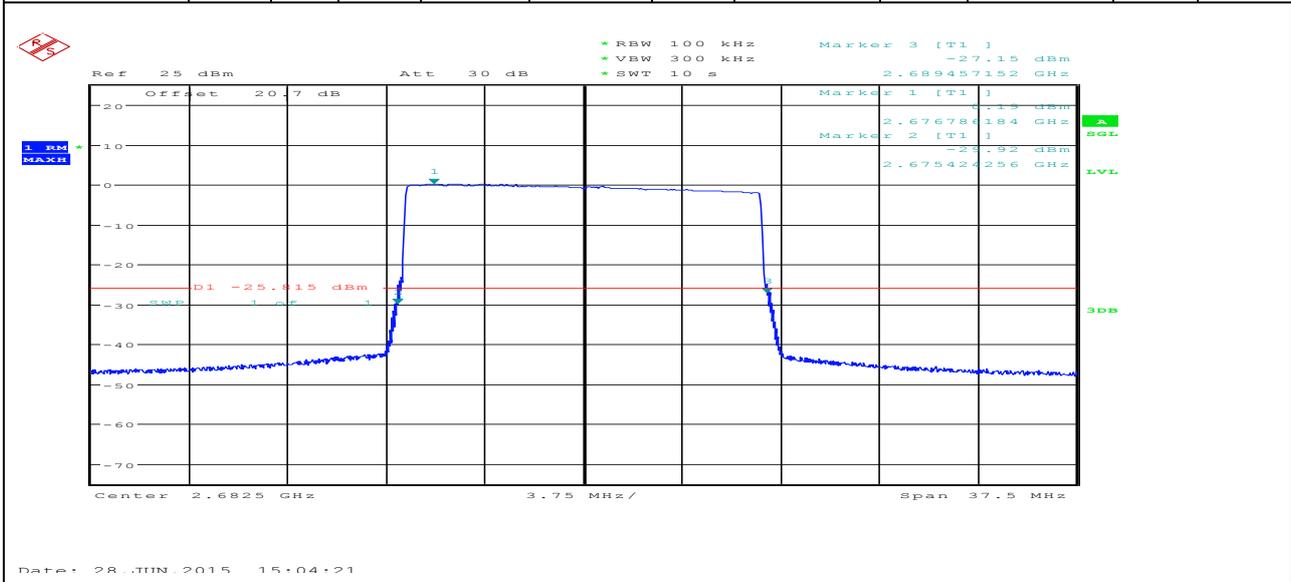
Center Frequency [MHz]	Span [MHz]	ndB [dB]	RBW [MHz]	Detect or	ndB BW [MHz]	BW Limit [MHz]	Lower Freq [MHz]	Lower Limit [MHz]	Upper Freq [MHz]	Upper Limit [MHz]	Verdict
2655	37.5	26	0.1	RMS	14.082048	15	2647.963904	2620	2662.045952	2690	Pass



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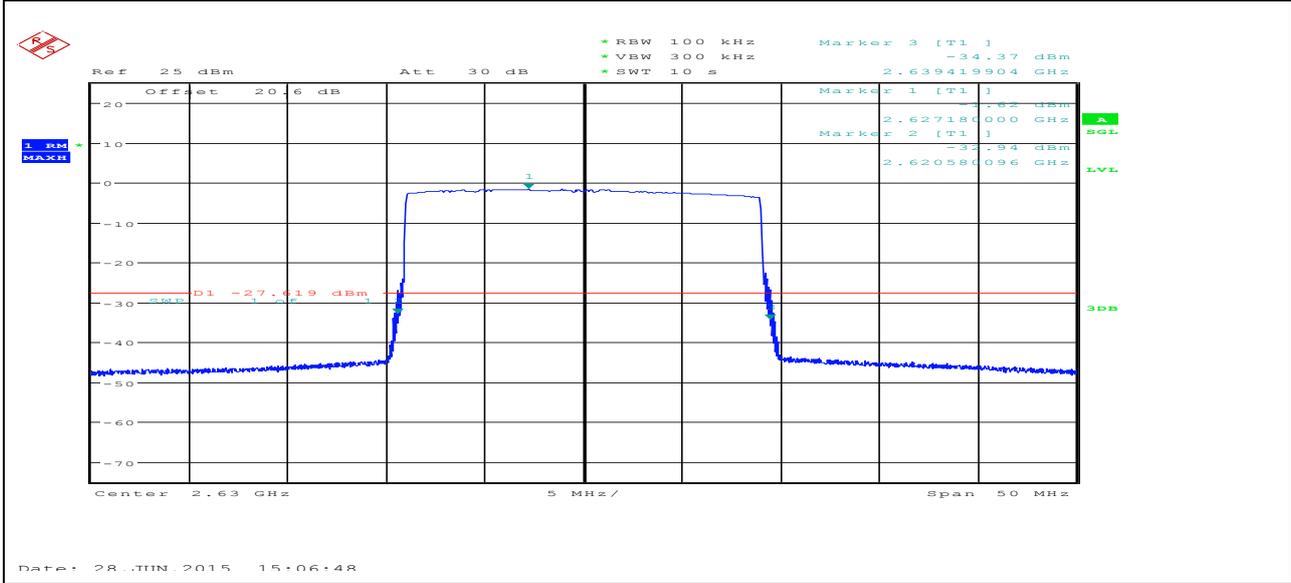
2.2.9 15M_T

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
2682.5	37.5	26	0.1	RMS	14.032896	15	2675.424256	2620	2689.457152	2690	Pass



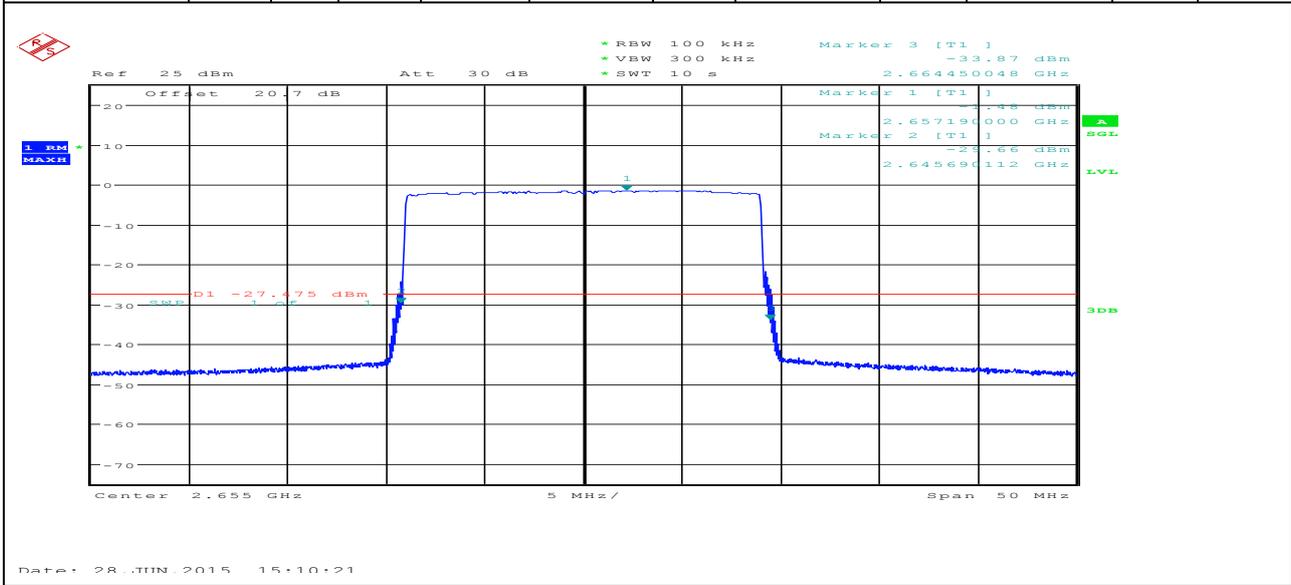
2.2.10 20M_B

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
2630	50	26	0.1	RMS	18.839808	20	2620.580096	2620	2639.419904	2690	Pass



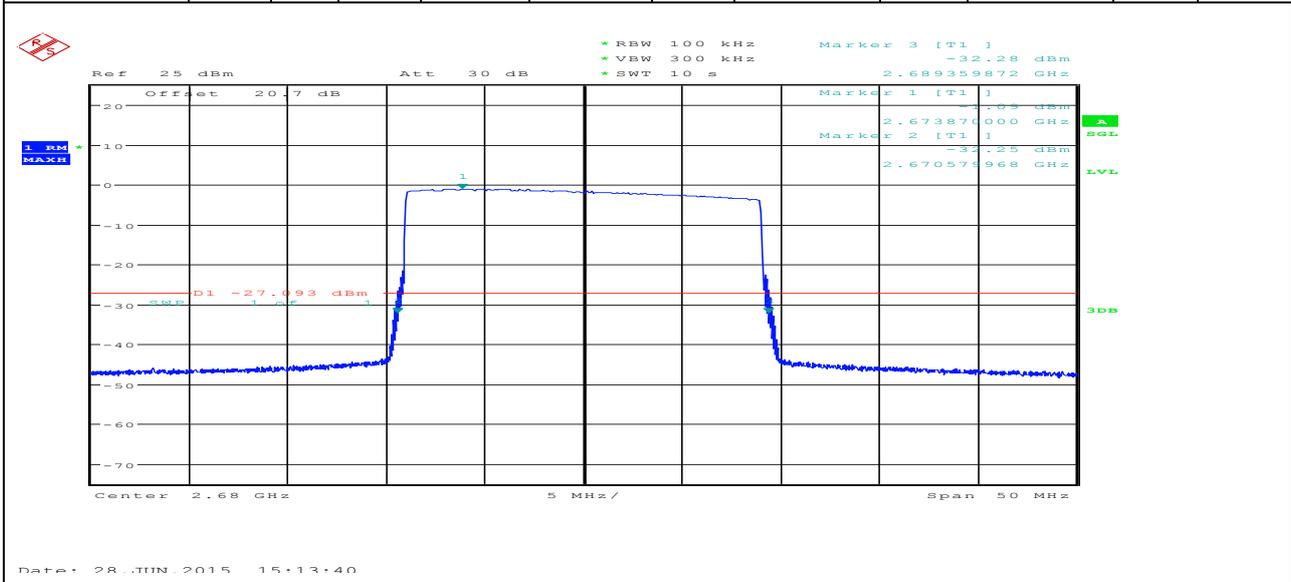
2.2.11 20M_M

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
2655	50	26	0.1	RMS	18.759936	20	2645.690112	2620	2664.450048	2690	Pass



2.2.12 20M_T

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
2680	50	26	0.1	RMS	18.779904	20	2670.579968	2620	2689.359872	2690	Pass





Appendix C2: Band Edges Compliance



1 Result Table

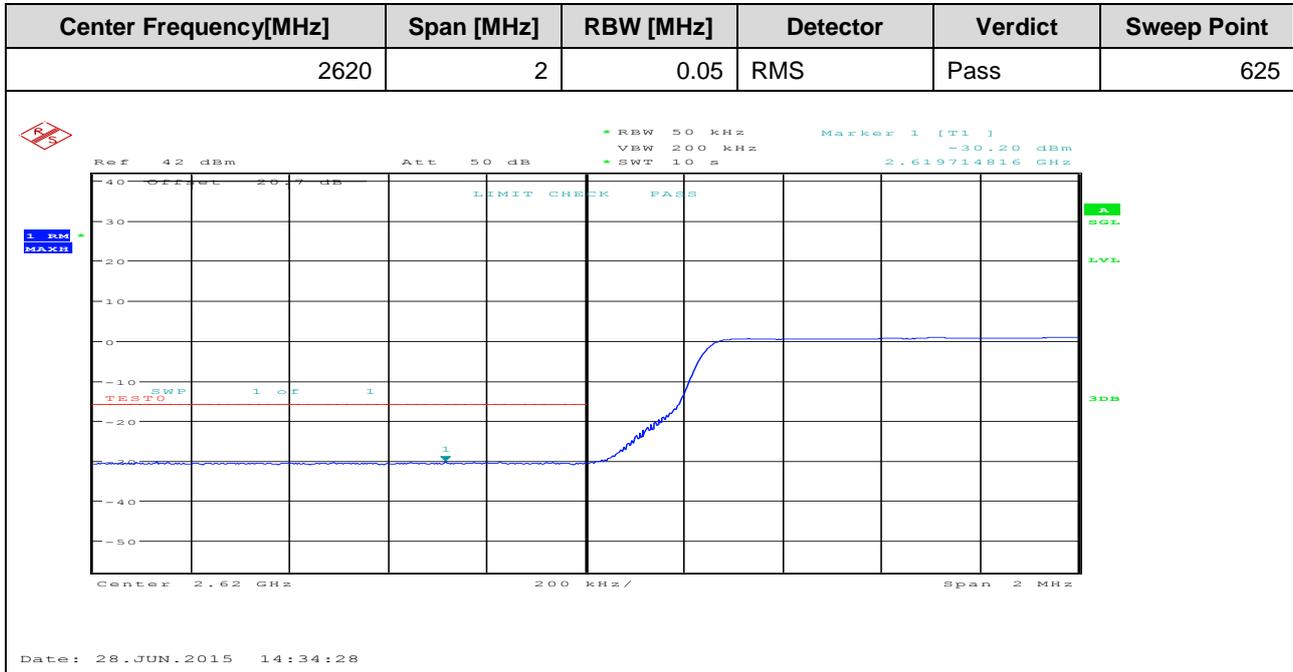
NOTE: The offset of measurement filter -3dB point may be considered when identifying the maximum emission for e.g. the CDMA, WCDMA, WiMAX, LTE systems.

EUT Conf.	Maximum Emission [dBm]	Verdict
5M_B	<-13	Pass
5M_T	<-13	Pass
20M_B	<-13	Pass
20M_T	<-13	Pass

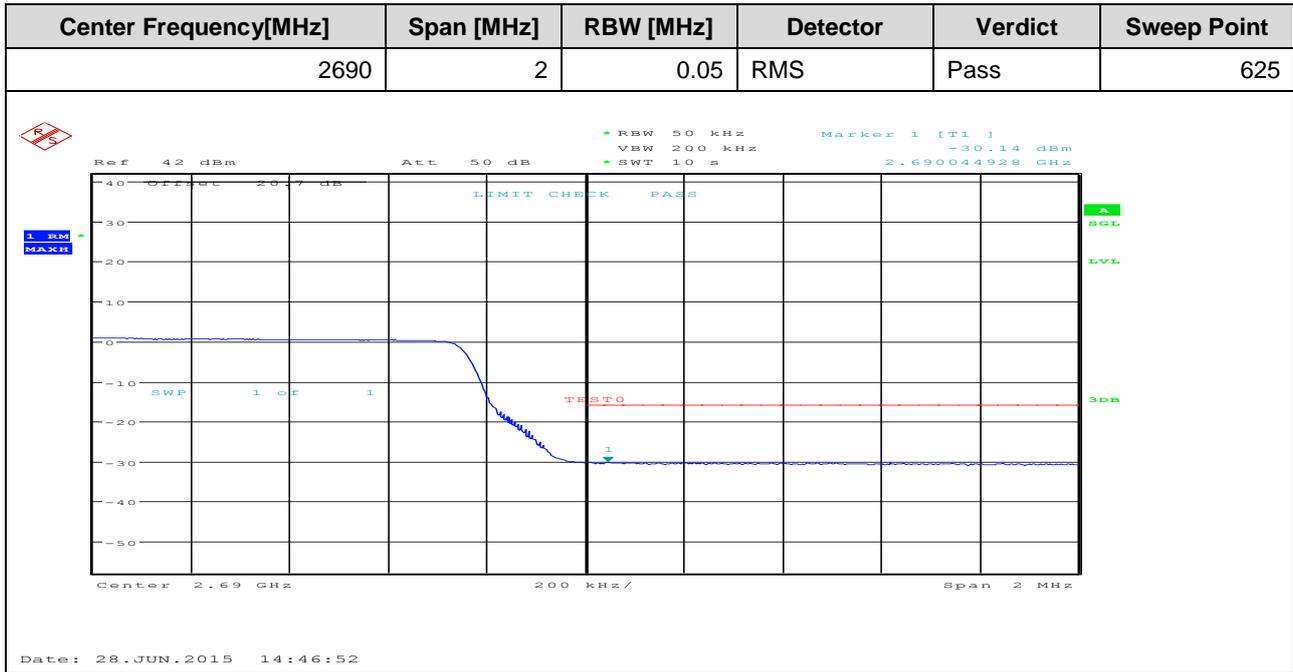


2 Test Plot

2.1 5M_B



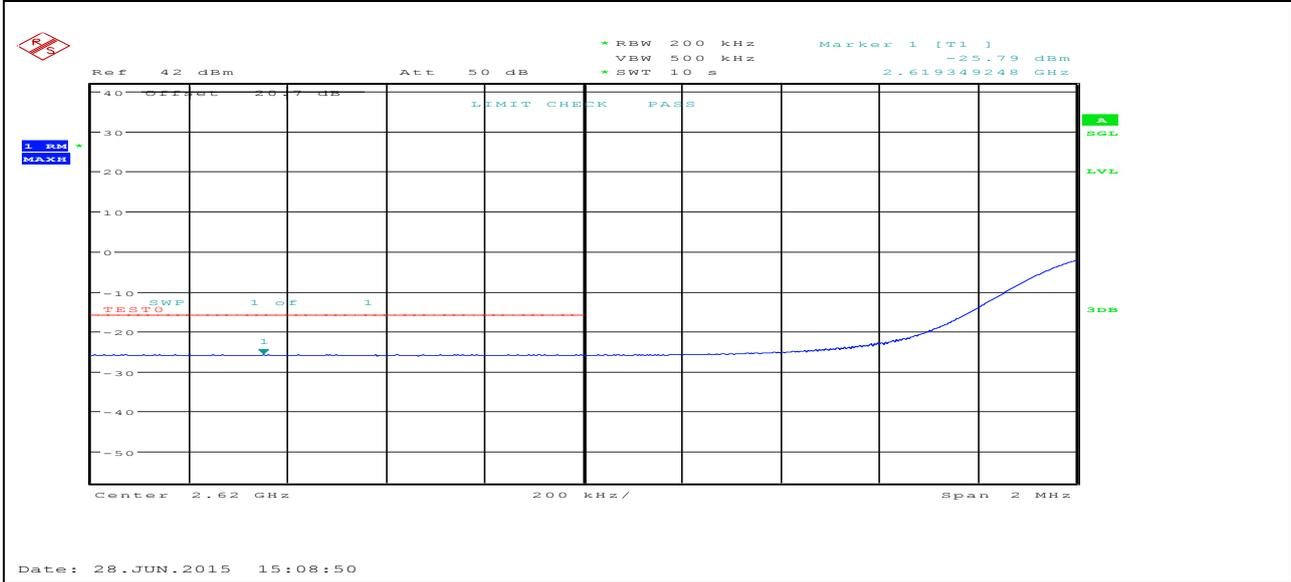
2.2 5M_T





2.3 20M_B

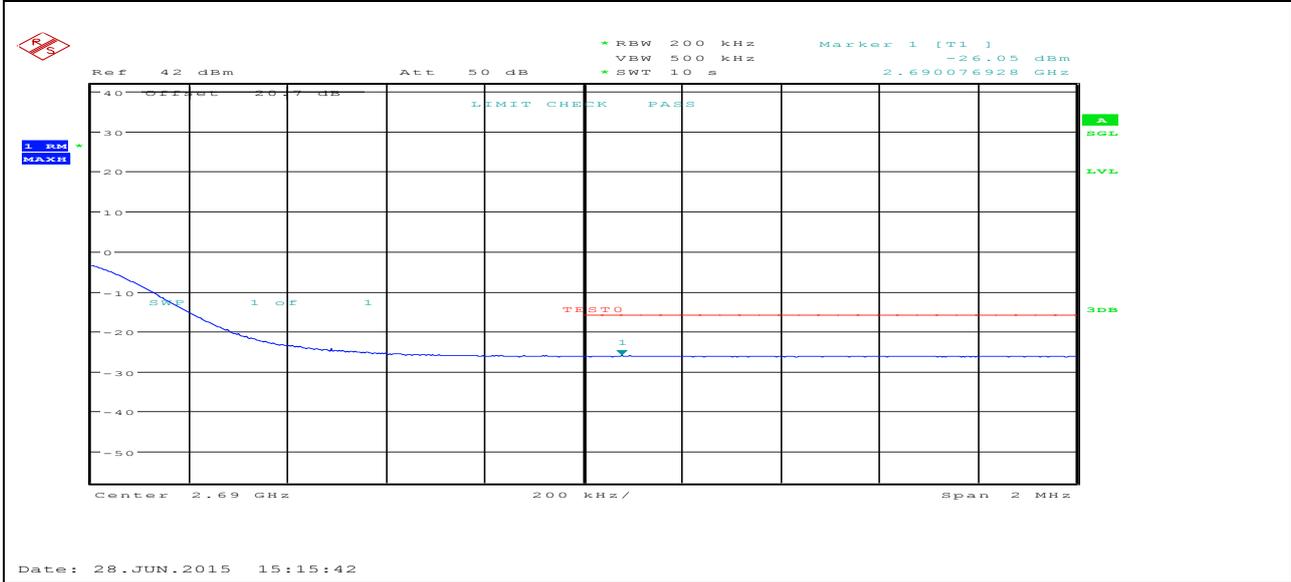
Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2620	2	0.2	RMS	Pass	625





2.4 20M_T

Center Frequency[MHz]	Span [MHz]	RBW [MHz]	Detector	Verdict	Sweep Point
2690	2	0.2	RMS	Pass	625





Appendix D2: Spurious Emission at Antenna Terminals



1 Result Table

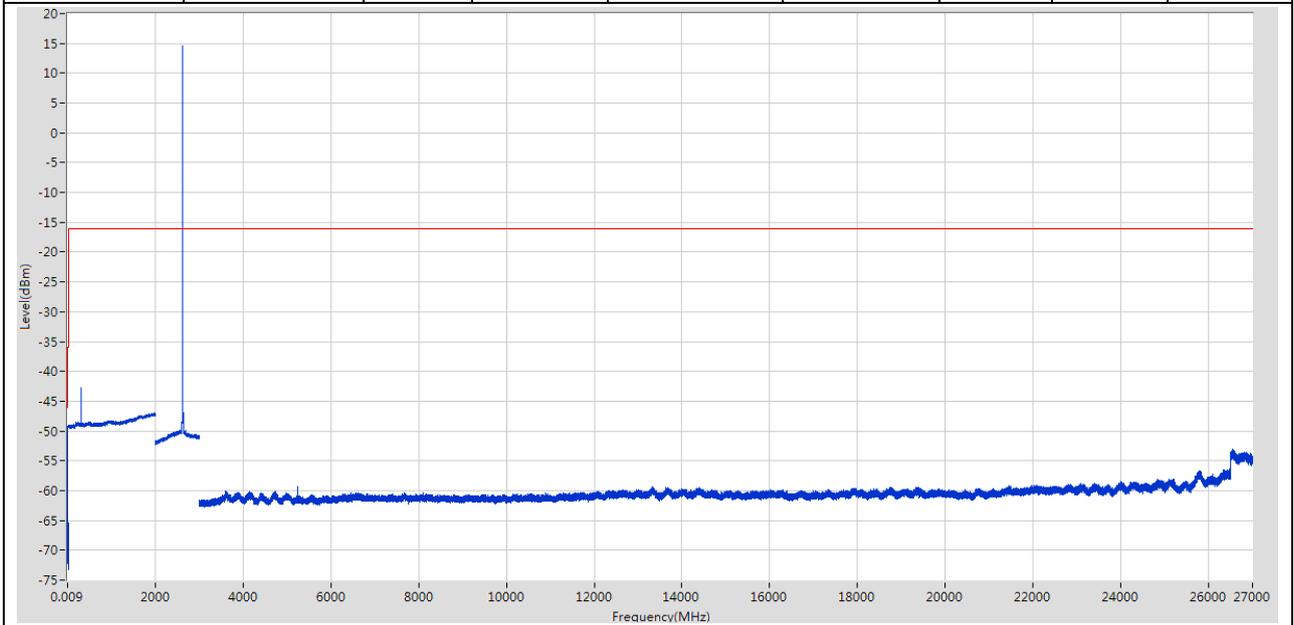
EUT Conf.	Maximum Emission [dBm]	Verdict
5M_B	<-13	Pass
5M_M	<-13	Pass
5M_T	<-13	Pass
20M_B	<-13	Pass
20M_M	<-13	Pass
20M_T	<-13	Pass



2 Test Plot

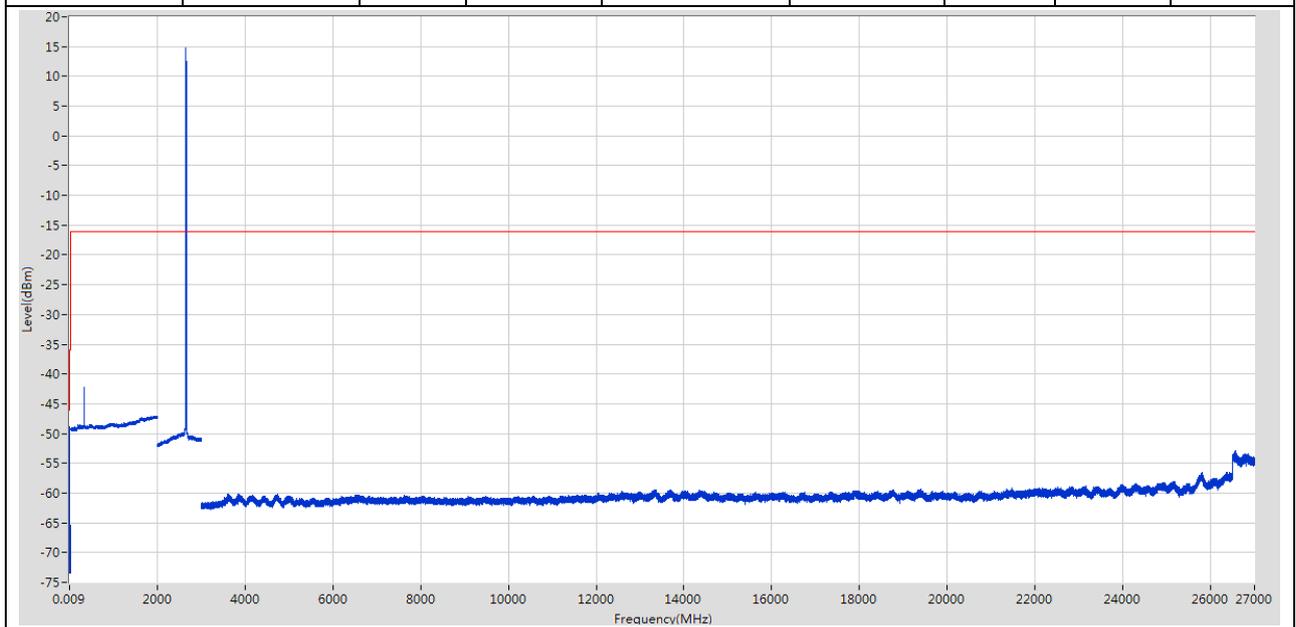
2.1 5M_B

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	66.281 k	-49.22	-46	Pass	801
0.15	30	0.01	RMS	157.96 k	-53.04	-36	Pass	15001
30	1500	1	RMS	308.306757 M	-42.82	-16	Pass	7401
1500	2000	1	RMS	1987.4 M	-47.02	-16	Pass	2501
2000	3000	1	RMS	2623.2 M	14.55	-16	---	5001
3000	27000	1	RMS	26552.0448 M	-52.99	-16	Pass	120004



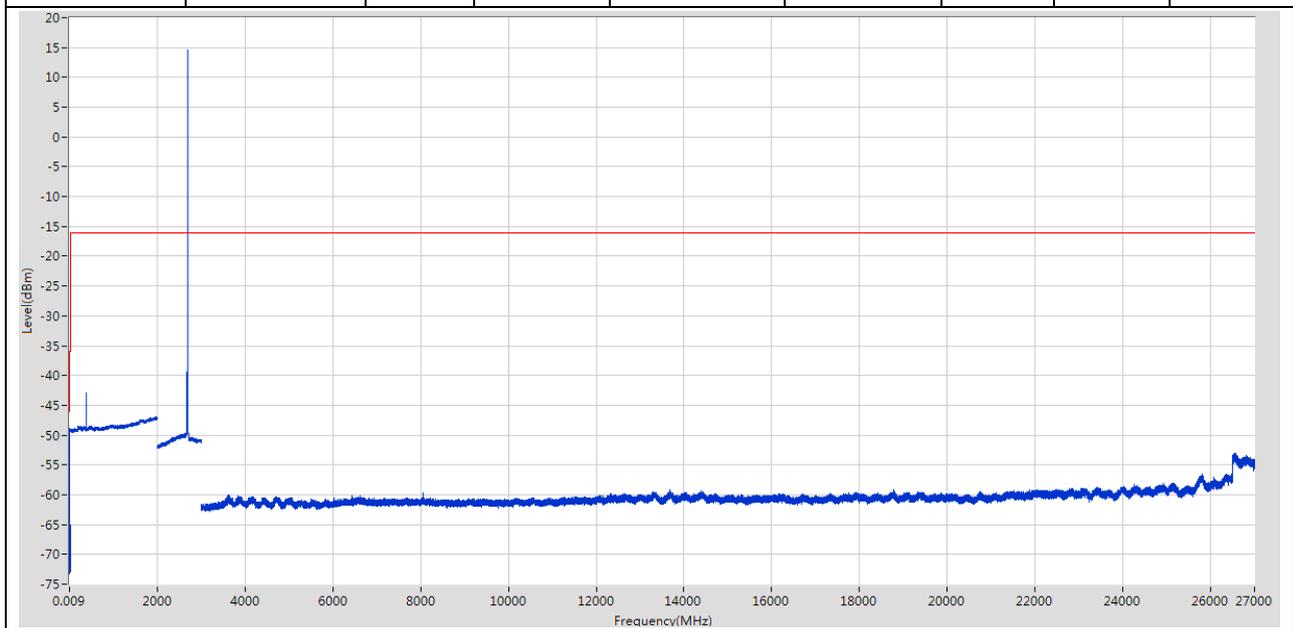
2.2 5M_M

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	66.457 k	-48.77	-46	Pass	801
0.15	30	0.01	RMS	151.99 k	-53.2	-36	Pass	15001
30	1500	1	RMS	340.885135 M	-42.32	-16	Pass	7401
1500	2000	1	RMS	1982.8 M	-47.03	-16	Pass	2501
2000	3000	1	RMS	2655.6 M	14.84	-16	---	5001
3000	27000	1	RMS	26572.24278 M	-52.94	-16	Pass	120004



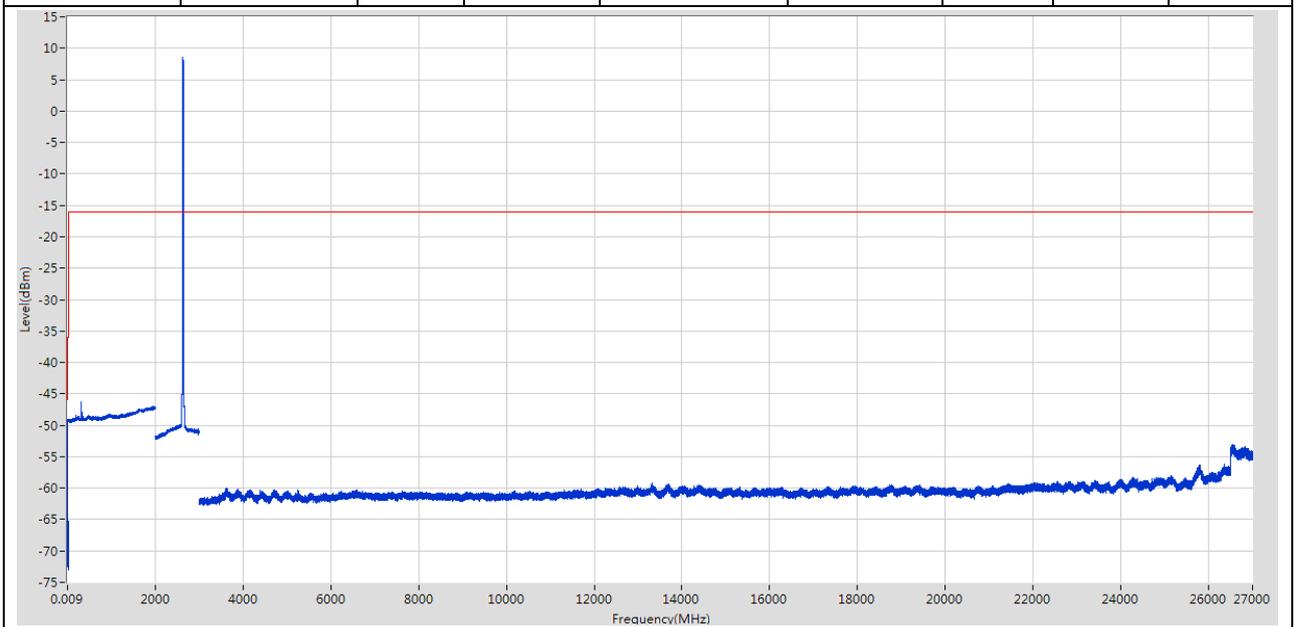
2.3 5M_T

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	66.281 k	-48.8	-46	Pass	801
0.15	30	0.01	RMS	179.85 k	-53.19	-36	Pass	15001
30	1500	1	RMS	373.264865 M	-42.88	-16	Pass	7401
1500	2000	1	RMS	1985.4 M	-47.01	-16	Pass	2501
2000	3000	1	RMS	2686.8 M	14.61	-16	---	5001
3000	27000	1	RMS	26557.0443 M	-53.03	-16	Pass	120004



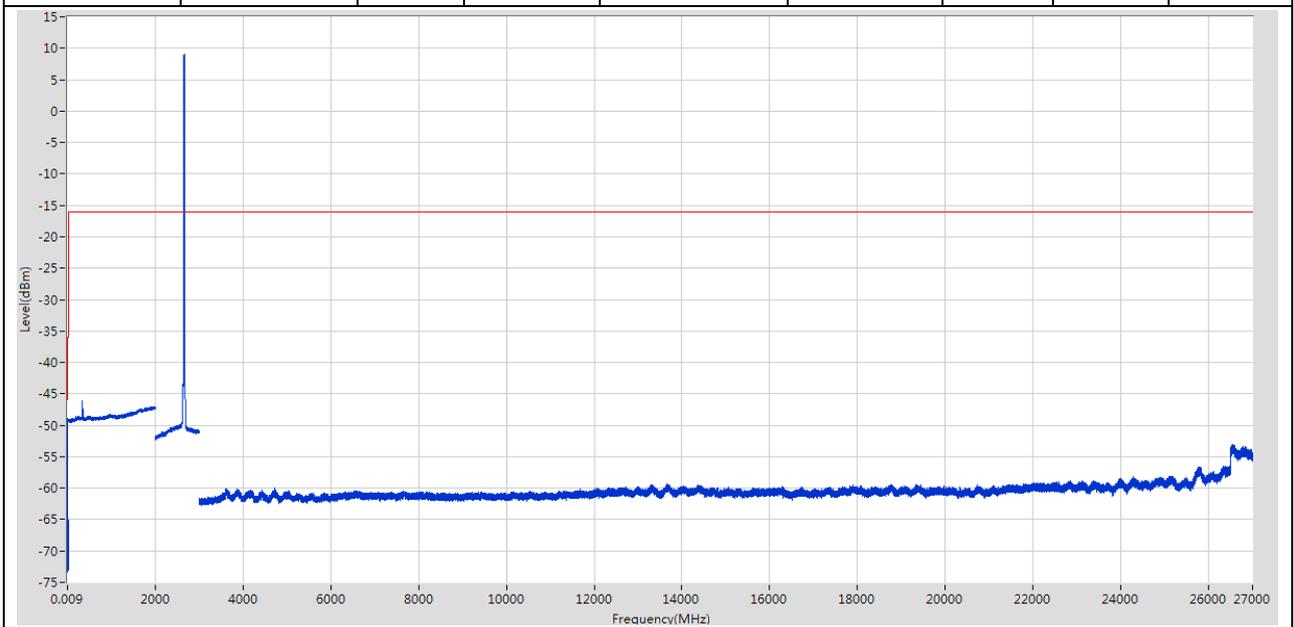
2.4 20M_B

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	66.281 k	-49.08	-46	Pass	801
0.15	30	0.01	RMS	161.94 k	-52.9	-36	Pass	15001
30	1500	1	RMS	315.458108 M	-46.3	-16	Pass	7401
1500	2000	1	RMS	1959 M	-46.99	-16	Pass	2501
2000	3000	1	RMS	2627.4 M	8.59	-16	---	5001
3000	27000	1	RMS	26553.44466 M	-53.09	-16	Pass	120004



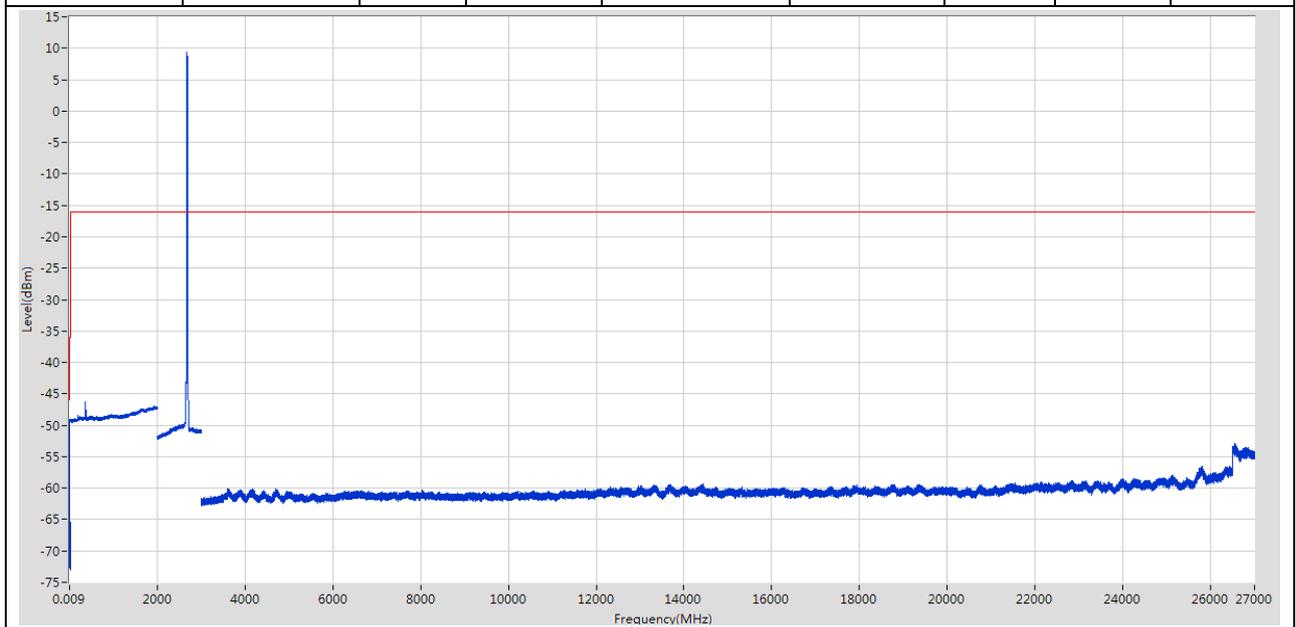
2.5 20M_M

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	66.457 k	-48.93	-46	Pass	801
0.15	30	0.01	RMS	177.86 k	-53.99	-36	Pass	15001
30	1500	1	RMS	340.487838 M	-46.17	-16	Pass	7401
1500	2000	1	RMS	1969.6 M	-47.05	-16	Pass	2501
2000	3000	1	RMS	2659 M	9.03	-16	---	5001
3000	27000	1	RMS	26547.84522 M	-52.97	-16	Pass	120004



2.6 20M_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	66.634 k	-49.08	-46	Pass	801
0.15	30	0.01	RMS	169.9 k	-52.76	-36	Pass	15001
30	1500	1	RMS	365.318919 M	-46.26	-16	Pass	7401
1500	2000	1	RMS	1928.8 M	-47	-16	Pass	2501
2000	3000	1	RMS	2675.2 M	9.33	-16	---	5001
3000	27000	1	RMS	26550.84492 M	-52.88	-16	Pass	120004





Appendix E2: Radiated (Spurious) Emissions

1 Result Table

EUT Conf.	Measured Curve Conformed to the Emission Limit?	Verdict
5M_M (Worst case)	Yes	Pass

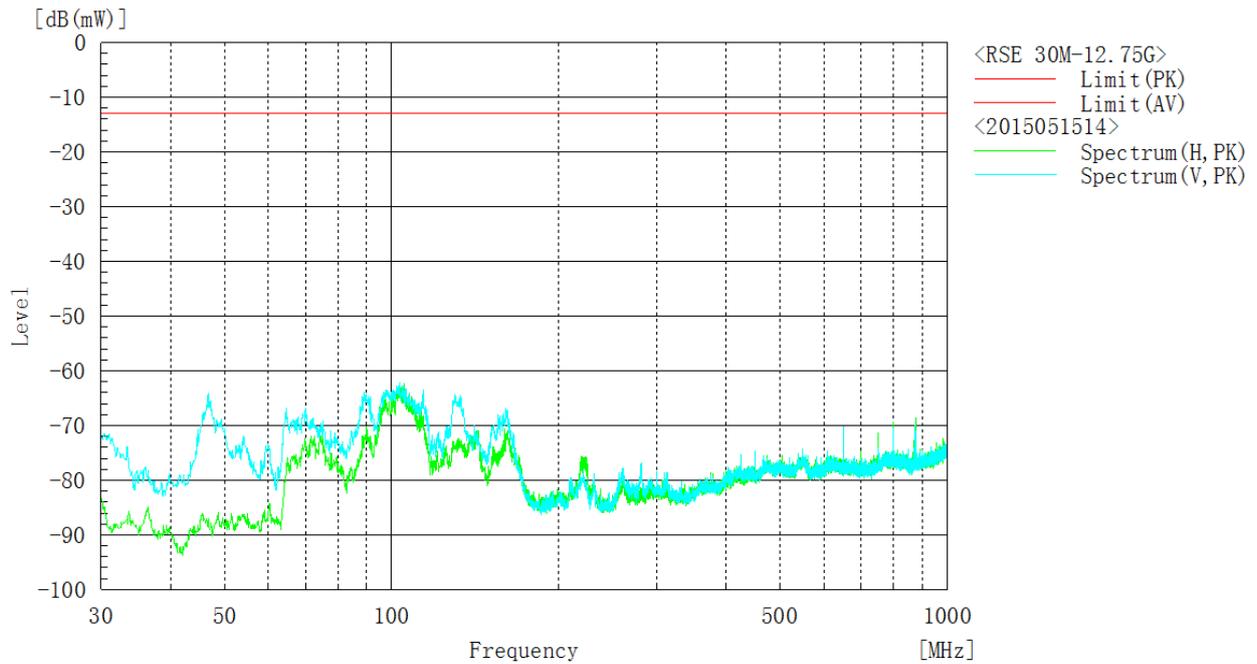
Note: The setting of analyzer is below

Frequency range	RBW	Detector
30MHz to 1GHz	1MHz	Average
1GHz to 18GHz	1MHz	Average
18GHz to 26.5GHz	1MHz	Average

2 Test Plot

2.1 30MHz-1GHz

Model :	Standard :
Serial :	Remark1 :
Operator :	Remark2 :
AC Power :	Remark3 :
Temp, Humidity :	Remark4 :

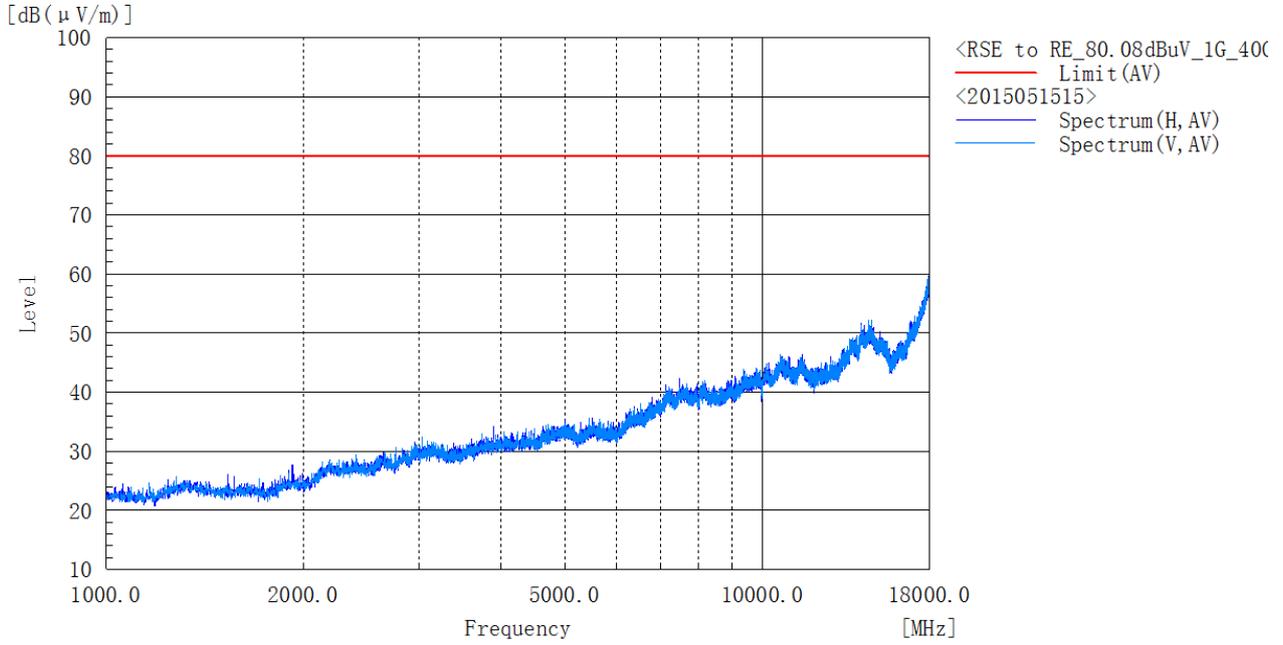




2.2 1GHz-18GHz

Note: the signal exceeding the limit line is the wanted signal.

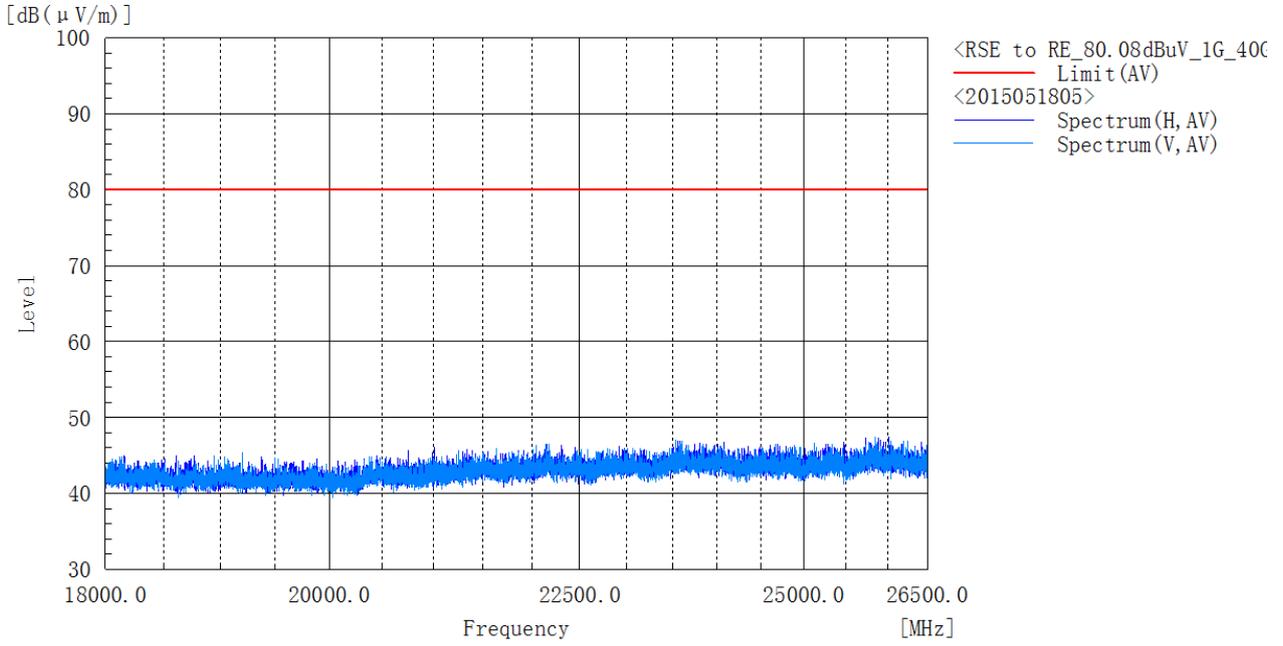
Model	:	Standard	:	RSE to RE_80.08dBuV_1G_40G.rli
Serial	:	Remark1	:	
Operator	:	Remark2	:	
AC Power	:	Remark3	:	
Temp, Humidity	:	Remark4	:	





2.3 18GHz-26.5GHz

Model	:	Standard	:	RSE to RE_80.08dBuV_1G_40G.rli
Serial	:	Remark1	:	
Operator	:	Remark2	:	
AC Power	:	Remark3	:	
Temp, Humidity	:	Remark4	:	





Appendix F2: Frequency Stability

1 Result Table

1.1 Frequency Error

(1) Frequency Error vs. Temperature:

EUT Conf.	Voltage	Temperature	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Verdict
5M_M	100%	-30 °C	7.12	0.00268	-0.00052	Pass
		-20 °C	8.71	0.00328	0.00008	Pass
		-10 °C	11.65	0.00439	0.00119	Pass
		0 °C	4.21	0.00159	-0.00162	Pass
		+10 °C	4.15	0.00156	-0.00164	Pass
		+20 °C	8.5	0.00320	---	Pass
		+30 °C	3.99	0.00150	-0.00170	Pass
		+40 °C	9.12	0.00344	0.00023	Pass
		+50 °C	5.39	0.00203	-0.00117	Pass

(2) Frequency Error vs. Voltage:

EUT Conf.	Temperature	Voltage	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Verdict
5M_M	+20 °C	85 %	8.25	0.00311	-0.00009	Pass
		100 %	8.5	0.00320	---	Pass
		115 %	6.08	0.00229	-0.00091	Pass

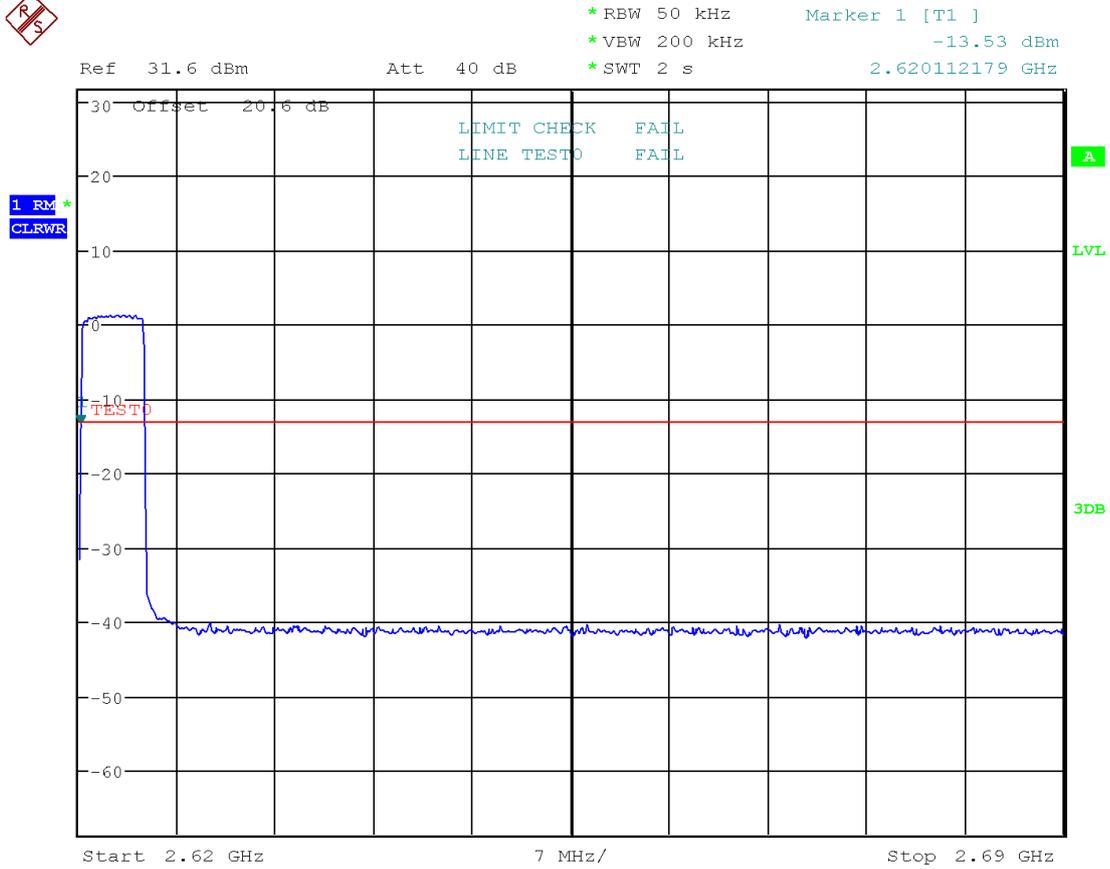
1.2 Frequency Range

EUT Conf.	$f_L - f(\text{offset}) $ [MHz]	$f_H + f(\text{offset}) $ [MHz]	Verdict
5M_B	2620.1121705	---	Pass
5M_T	---	2689.8878295	Pass

2 Test Plot

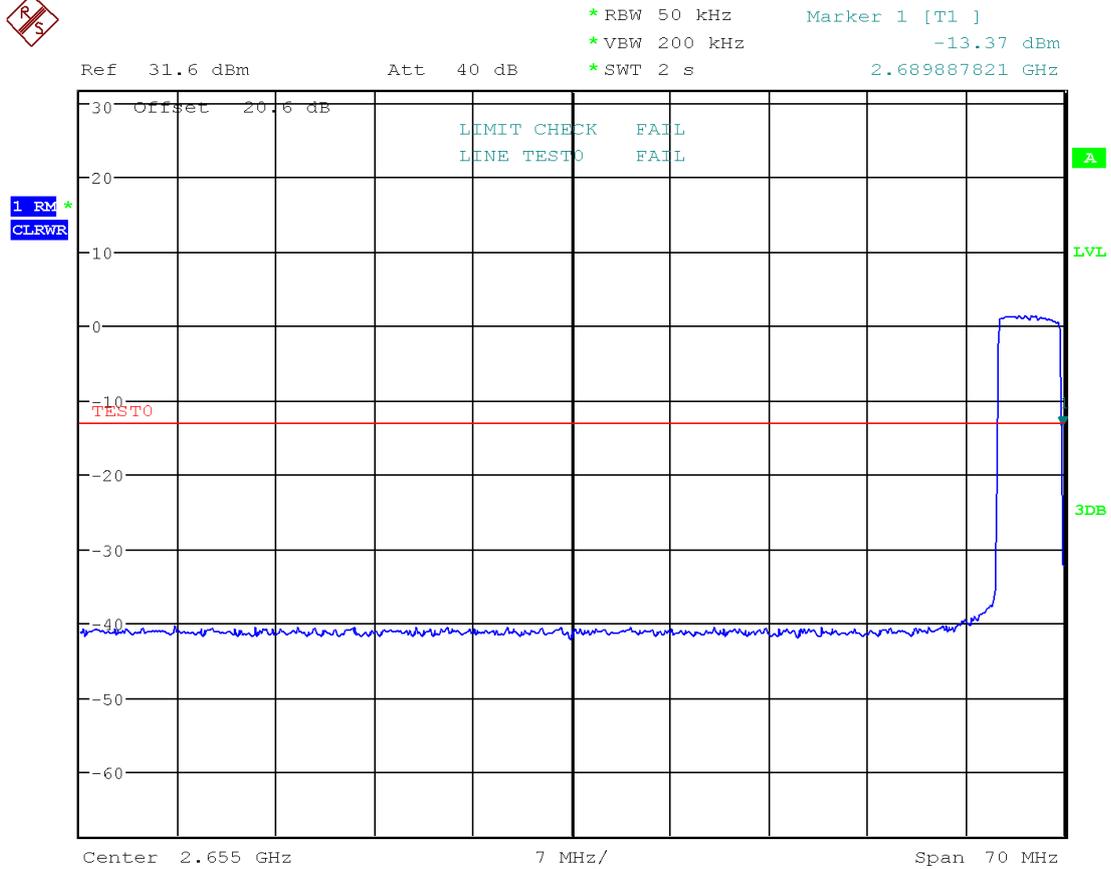
NOTE: Only the test plots for the measurements of Frequency Range are supplied.

2.1 5M_B



Date: 30.JUN.2015 21:07:49

2.2 5M_T



Date: 30.JUN.2015 21:10:49



Appendix G2: Receiver Spurious Emissions



1 Result Table

(Not applicable)

2 Test Plot

(Not applicable)

END