



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 practical maximum antenna gain will be changed with the actual antenna conducted power, 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 power(dBm)	Antenna Gain [dBi]	EIRP [W]	Verdict
1U_TM1_B	40.21	40.21	5	33.19	Pass
1U_TM1_M	40.35	40.35	5	34.27	Pass
1U_TM1_T	40.09	40.09	5	32.28	Pass
2U_TM1_B	37.44/37.8	40.63	5	36.56	Pass
2U_TM1_M	37.37/37.33	40.36	5	34.35	Pass
2U_TM1_T	37.87/37.25	40.58	5	36.14	Pass

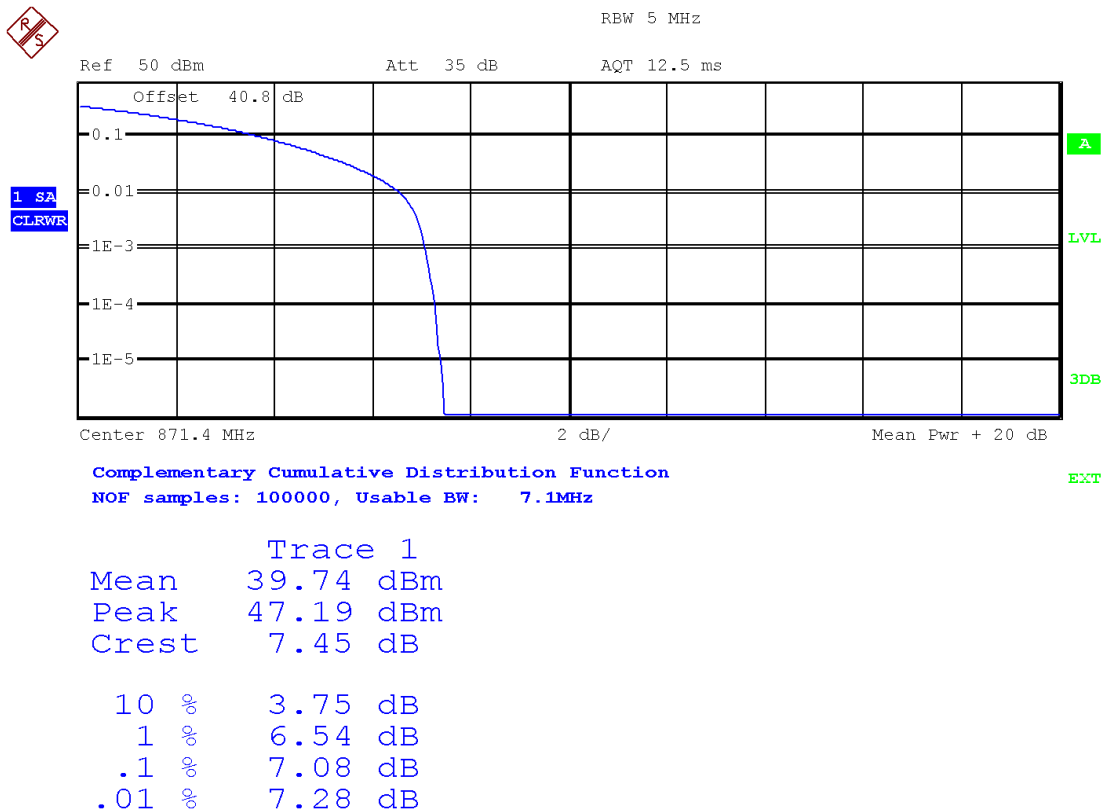
1.2 Peak-to-Average Ratio

EUT Conf.	Peak-to-Average Ratio@0.1% [dB]	Verdict
1U_TM1_B	7.08	Pass
1U_TM1_M	7.05	Pass
1U_TM1_T	7.28	Pass

2 Test Plot

2.1 Peak-to-Average Ratio

2.1.1 1U_TM1_B



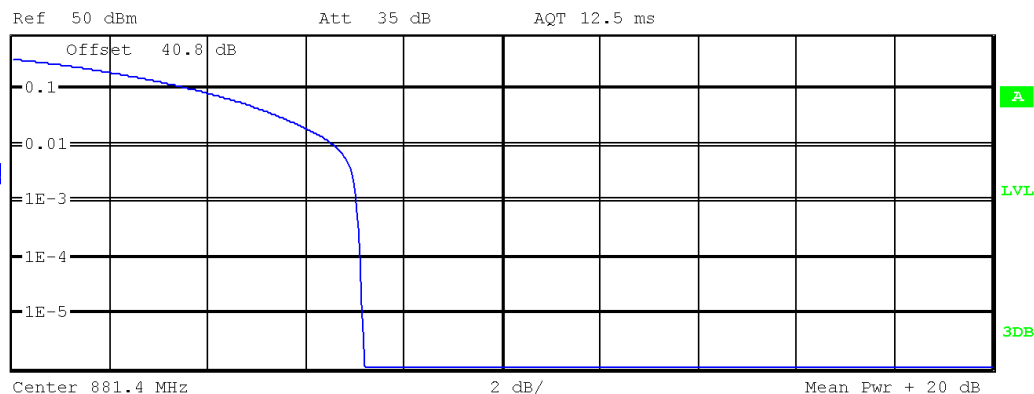
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2.1.2 1U_TM1_M



REW 5 MHz

1 SA
CLRWR



Complementary Cumulative Distribution Function

NOF samples: 100000, Usable BW: 7.1MHz

EXT

Trace 1
Mean 39.80 dBm
Peak 46.98 dBm
Crest 7.18 dB

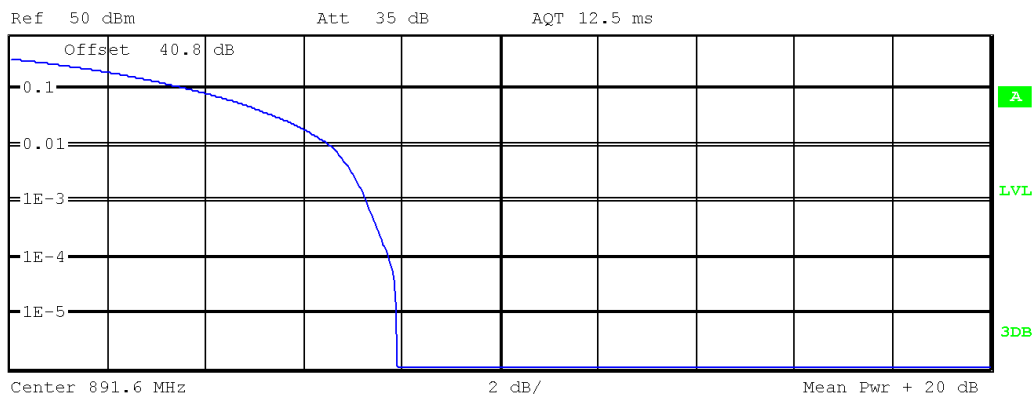
10 %	3.78 dB
1 %	6.60 dB
.1 %	7.05 dB
.01 %	7.12 dB

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2.1.3 1U_TM1_T



REW 5 MHz



Complementary Cumulative Distribution Function

NOF samples: 100000, Usable BW: 7.1MHz

EXT

Trace 1
Mean 39.65 dBm
Peak 47.55 dBm
Crest 7.89 dB

10 %	3.78 dB
1 %	6.54 dB
.1 %	7.28 dB
.01 %	7.72 dB

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Appendix B: Bandwidth



1 Result Table

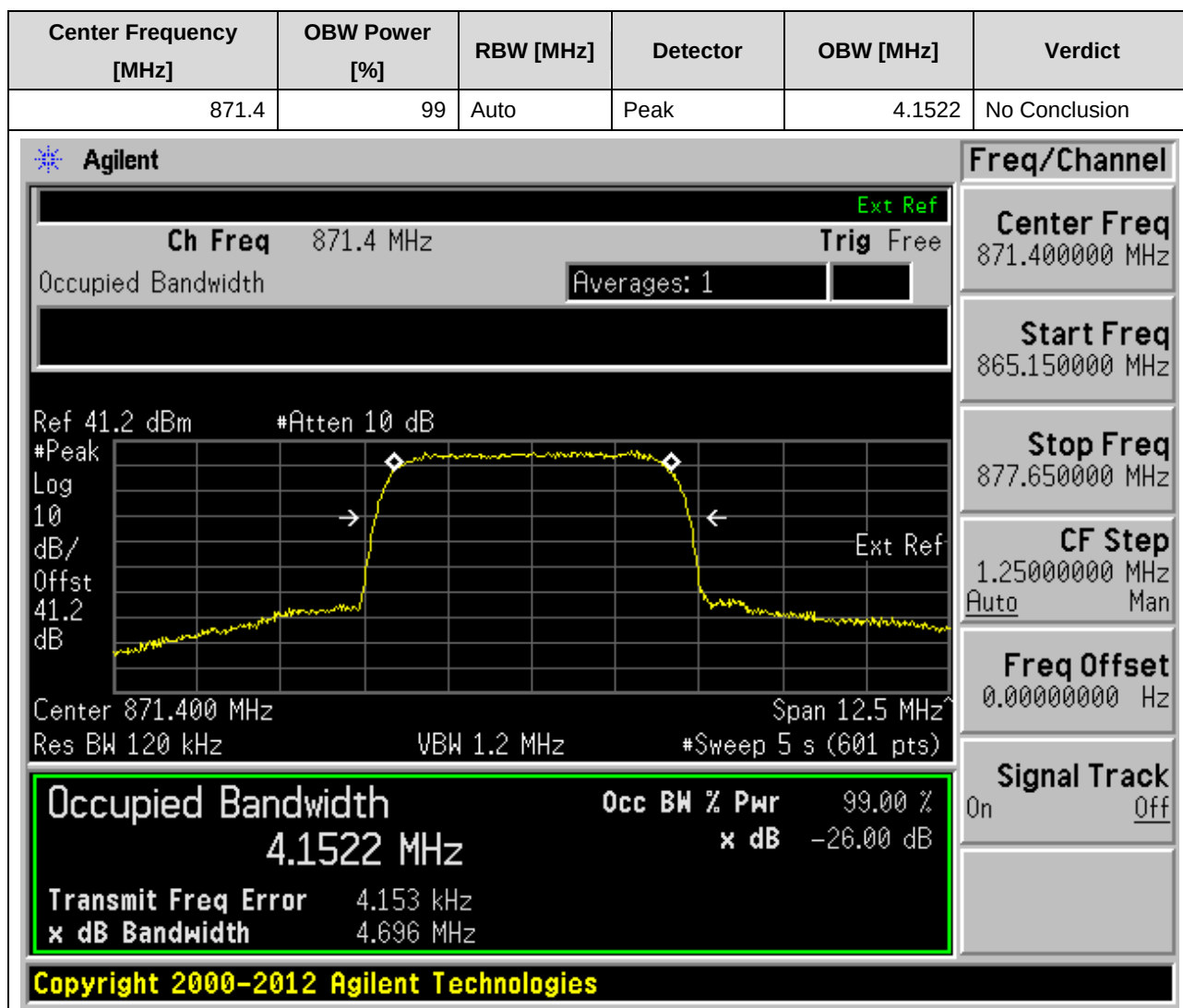
1.1 Occupied Bandwidth

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
1U_TM1_B	4.1522	Pass
1U_TM1_M	4.1561	Pass
1U_TM1_T	4.1308	Pass

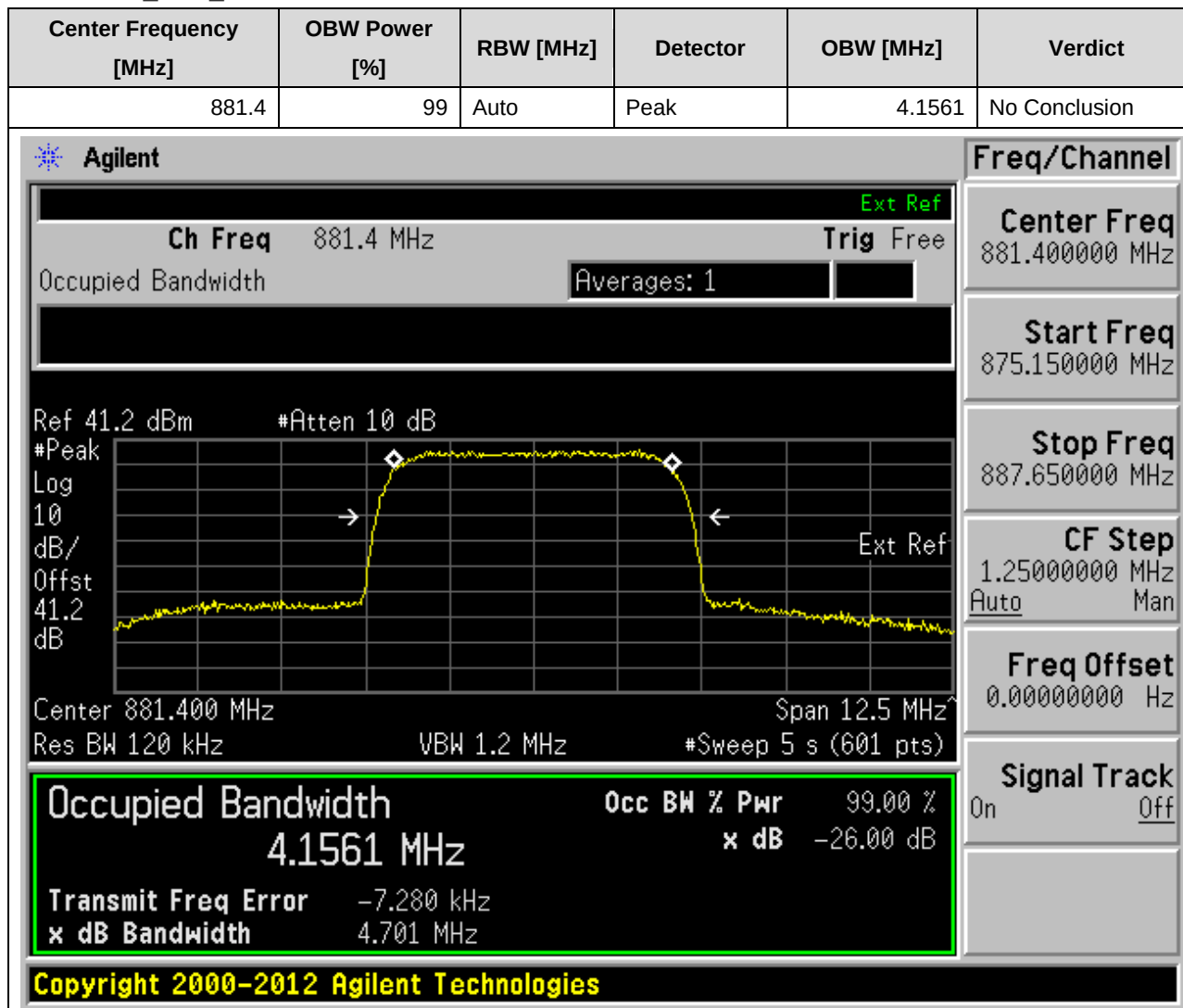
2 Test Plot

2.1 Occupied Bandwidth

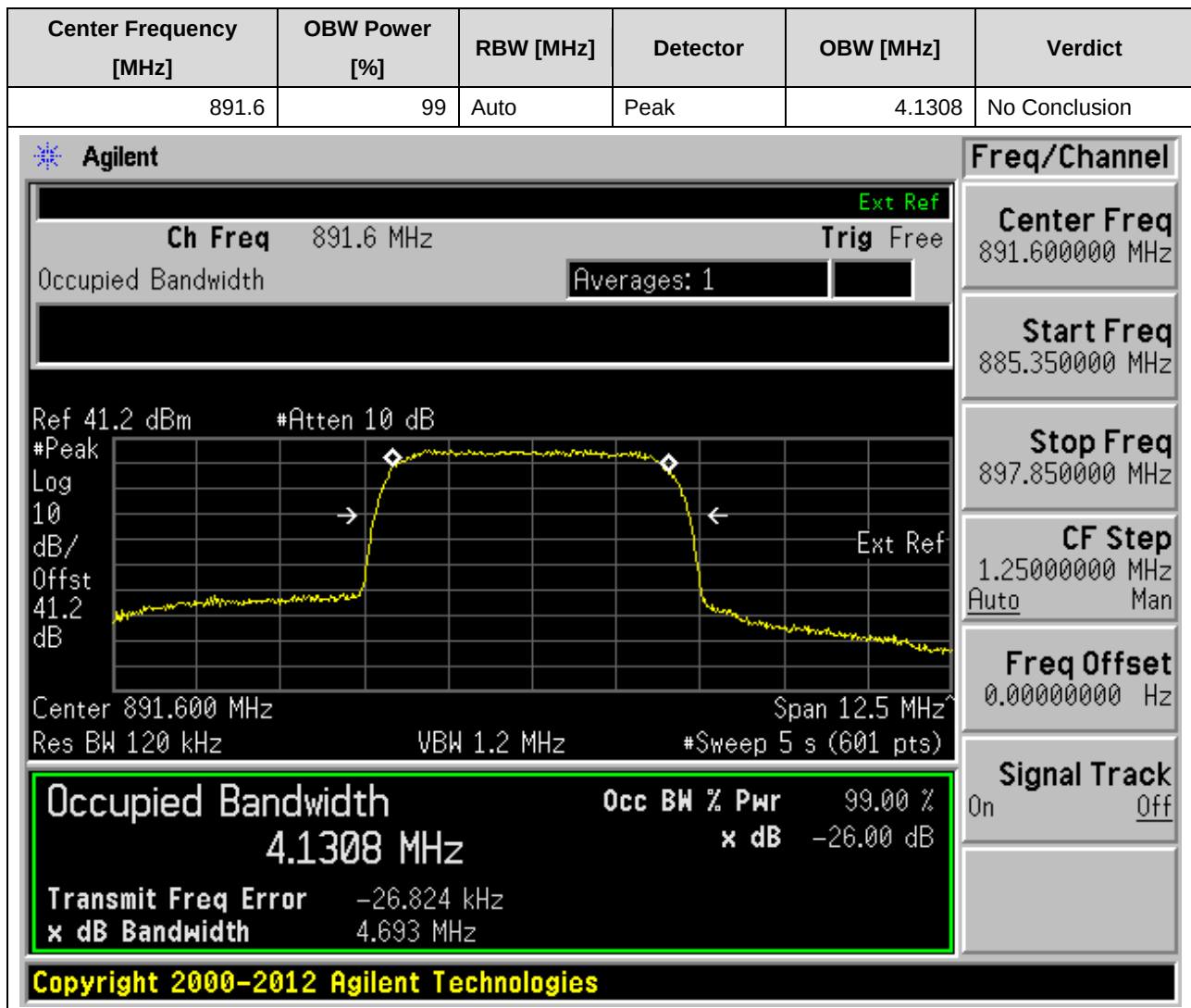
2.1.1 1U_TM1_B



2.1.2 1U_TM1_M



2.1.3 1U_TM1_T





Appendix C: 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.

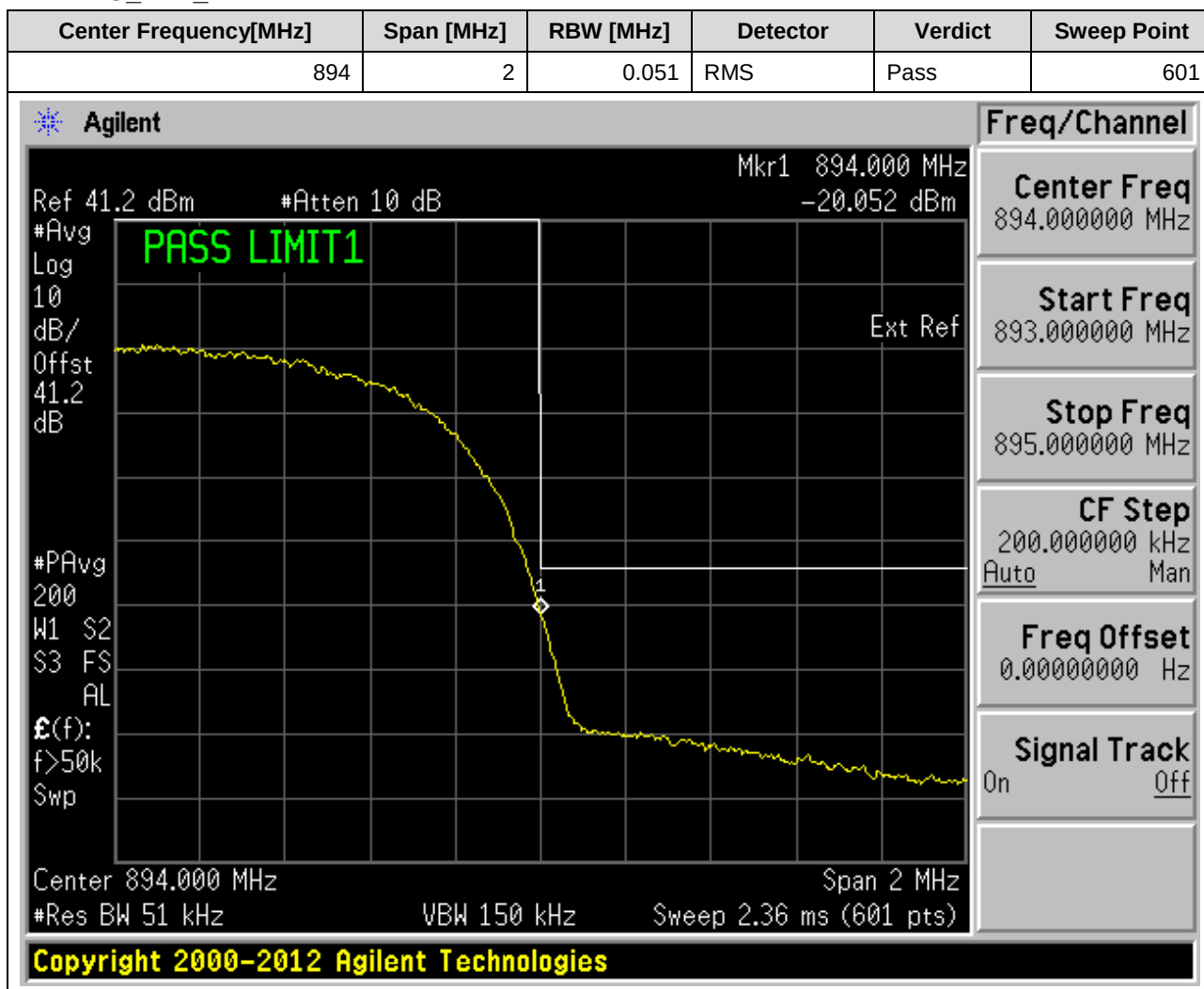
EUT Conf.	Maximum Emission [dBm]	Verdict
1U_TM1_B	-18.838	Pass
1U_TM1_T	-20.052	Pass
2U_TM1_B	-21.791	Pass
2U_TM1_T	-22.127	Pass

2 Test Plot

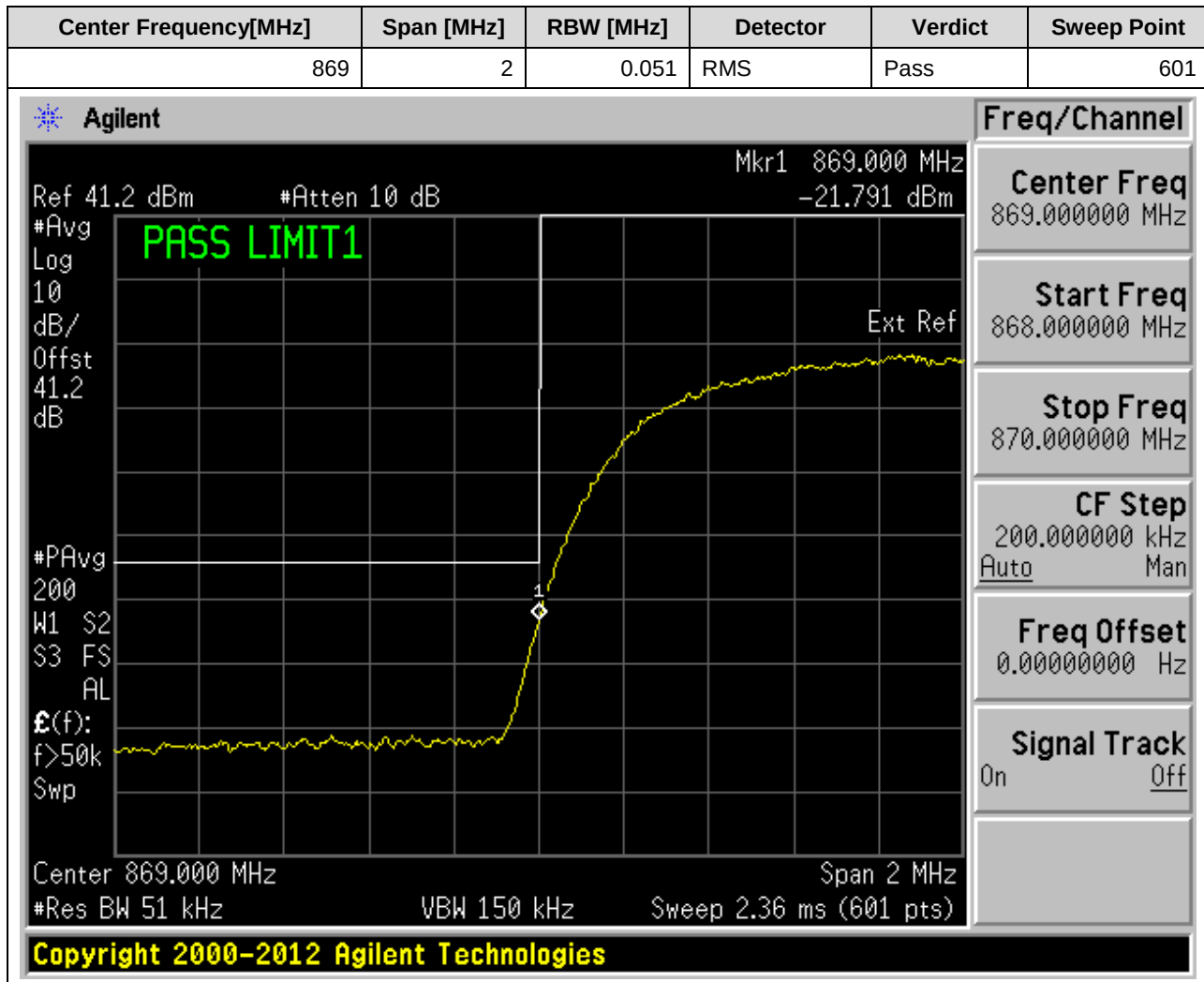
2.1 1U_TM1_B



2.2 1U_TM1_T



2.3 2U_TM1_B



2.4 2U_TM1_T



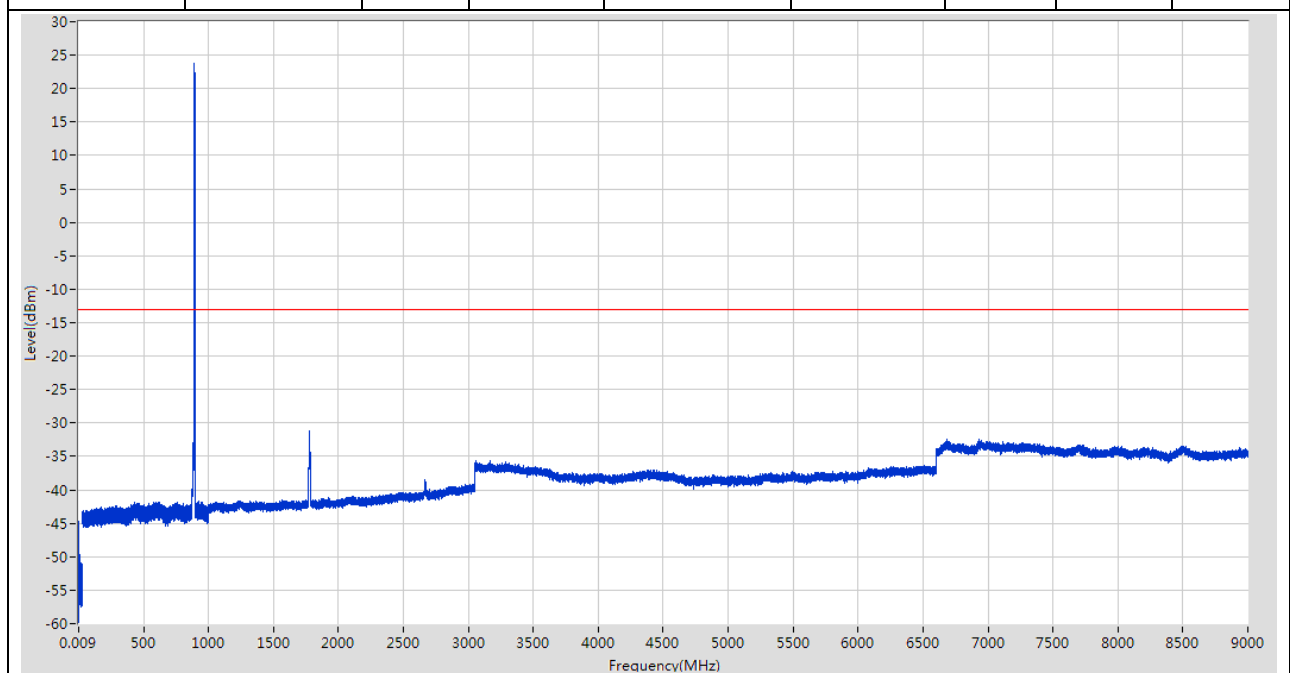


Appendix D: Spurious Emission at Antenna Terminals

1 Test Result and Test Plot

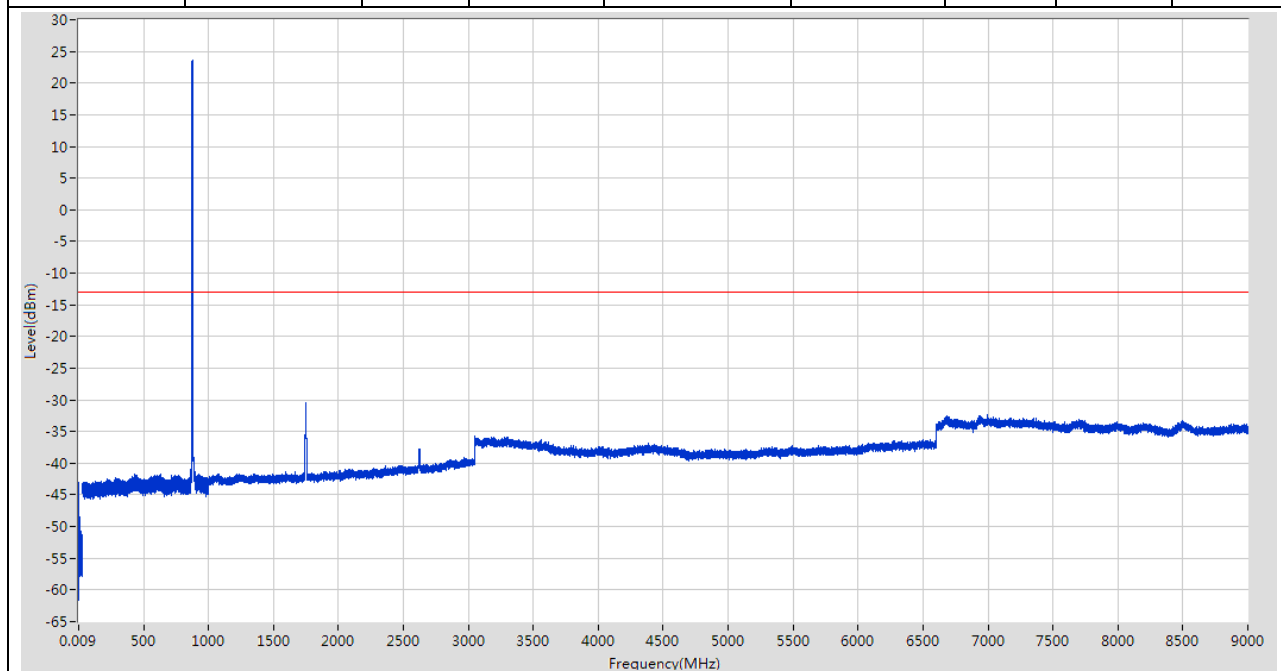
1.1 1U_TM1_B

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	10.202 k	-46.94	-13	Pass	705
0.15	30	0.01	RMS	178.003 k	-44.64	-13	Pass	14925
30	500	0.1	RMS	433.89071 M	-41.92	-13	Pass	23500
500	1000	0.1	RMS	888.127379 M	23.75	-13	NA	25177
1000	9000	1	RMS	1778.495031 M	-31.14	-13	Pass	40000



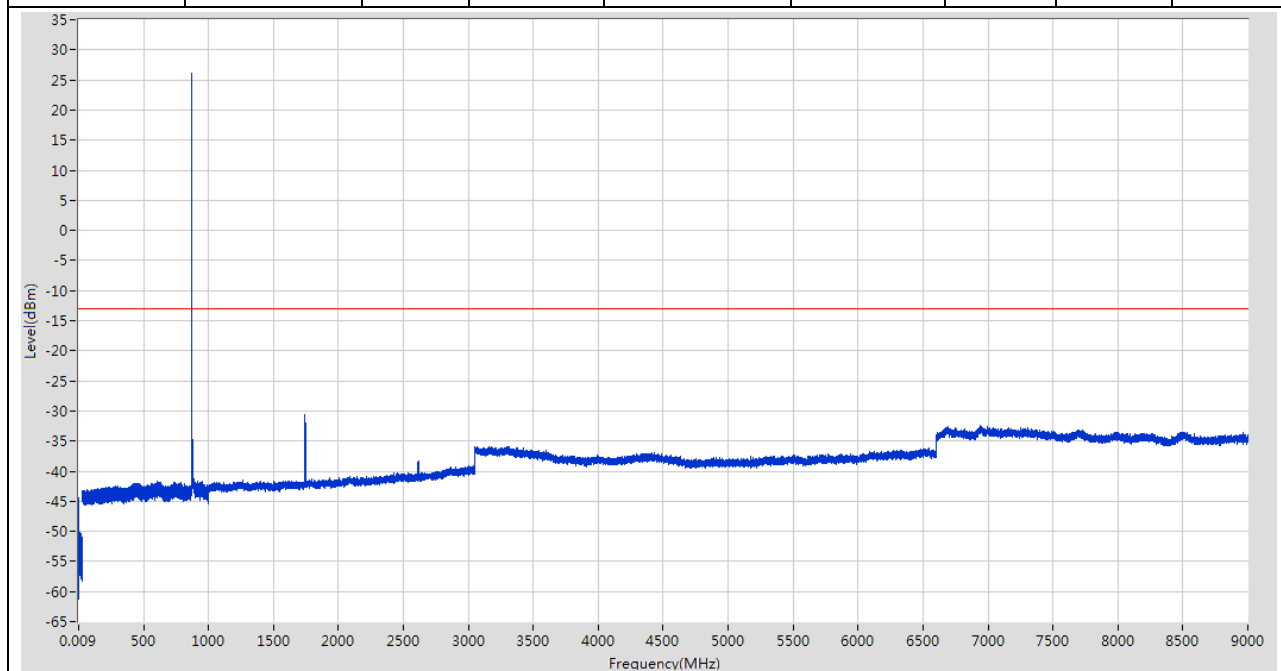
1.2 1U_TM1_T

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	145.994 k	-47.23	-13	Pass	705
0.15	30	0.01	RMS	186.004 k	-43.01	-13	Pass	14925
30	500	0.1	RMS	429.710122 M	-41.73	-13	Pass	23500
500	1000	0.1	RMS	875.485836 M	23.63	-13	NA	25177
1000	9000	1	RMS	1747.891295 M	-30.4	-13	Pass	40000



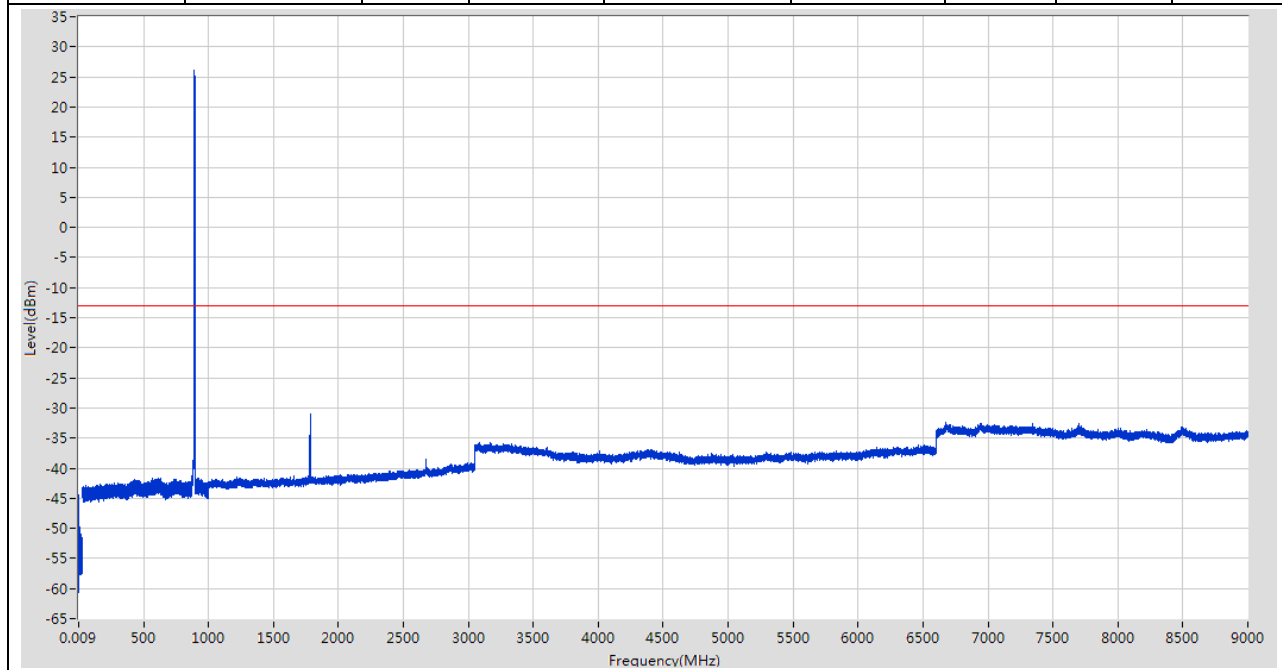
1.3 2U_TM1_B

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	9.801 k	-47.53	-13	Pass	705
0.15	30	0.01	RMS	190.005 k	-44.4	-13	Pass	14925
30	500	0.1	RMS	449.892959 M	-42.03	-13	Pass	23500
500	1000	0.1	RMS	872.905521 M	26.05	-13	NA	25177
1000	9000	1	RMS	1742.290612 M	-30.66	-13	Pass	40000



1.4 2U_TM1_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	9.401 k	-45.83	-13	Pass	705
0.15	30	0.01	RMS	158.001 k	-44.53	-13	Pass	14925
30	500	0.1	RMS	432.930575 M	-41.97	-13	Pass	23500
500	1000	0.1	RMS	891.00773 M	26.18	-13	NA	25177
1000	9000	1	RMS	1783.095593 M	-31.05	-13	Pass	40000





Appendix E: Field Strength of Spurious Radiation



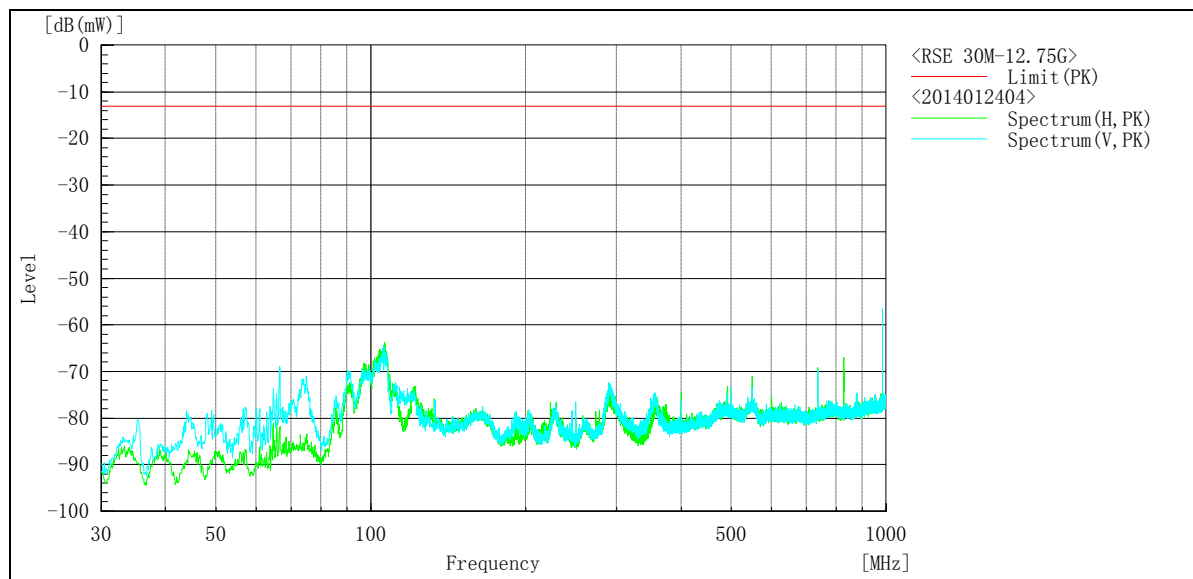
1 Result Table

EUT Conf.	Maximum Emission [dBm]	Verdict
1U_TM1_M	< -13	Pass

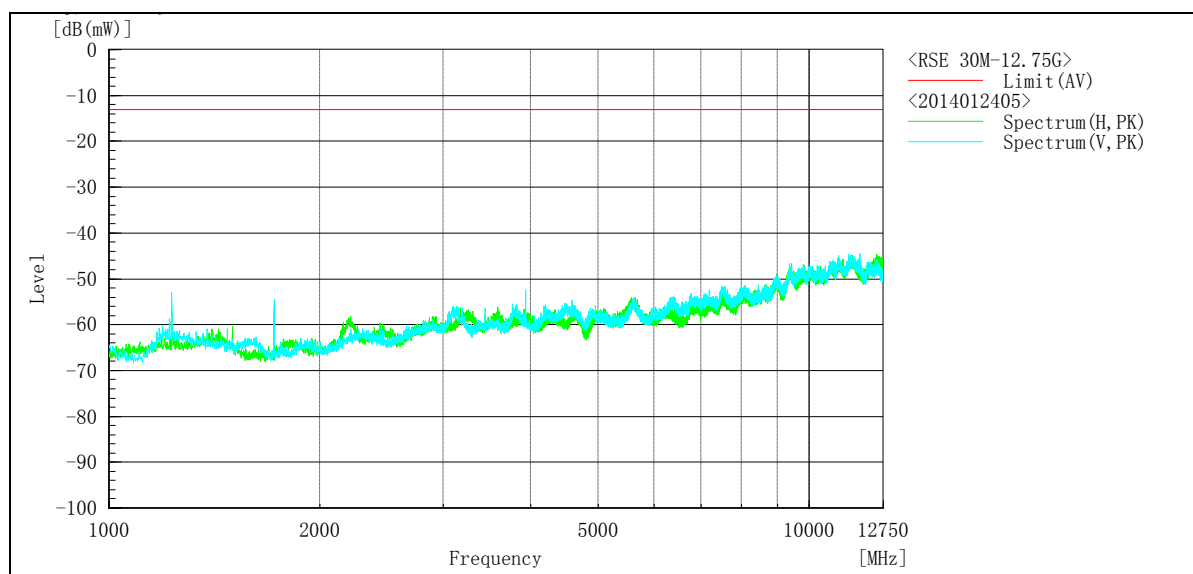
2 Test Plot

2.1 1U_TM1_M

2.1.1 Below 1GHz



2.1.2 Above 1GHz





Appendix F: Frequency Stability

1 Result Table

1.1 Frequency Error

(1) Frequency Error vs. Temperature:

EUT Conf.	Voltage	Temperature	Freq. Error, f(offset) [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Verdict
1U_TM1_M	100%	-30 °C	-1.88	-0.0021	-0.0021	Pass
		-20 °C	-1.76	-0.0019	-0.0019	Pass
		-10 °C	-1.97	-0.0022	-0.0022	Pass
		0 °C	-1.55	-0.0017	-0.0017	Pass
		+10 °C	0.87	-0.0009	-0.0009	Pass
		+20 °C	0.16	0.0001	---	Pass
		+30 °C	1.23	0.0014	0.0014	Pass
		+40 °C	0.89	0.0009	0.0009	Pass
		+50 °C	0.16	0.0001	0	Pass

(2) Frequency Error vs. Voltage:

EUT Conf.	Temperature	Voltage	Freq. Error, f(offset) [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Verdict
1U_TM1_M	+20 °C	85 %	1.01	0.0011	0.0011	Pass
		100 %	0.16	0.0001	---	Pass
		115 %	0.89	0.0009	0.0009	Pass



Appendix G: Receiver Spurious Emissions



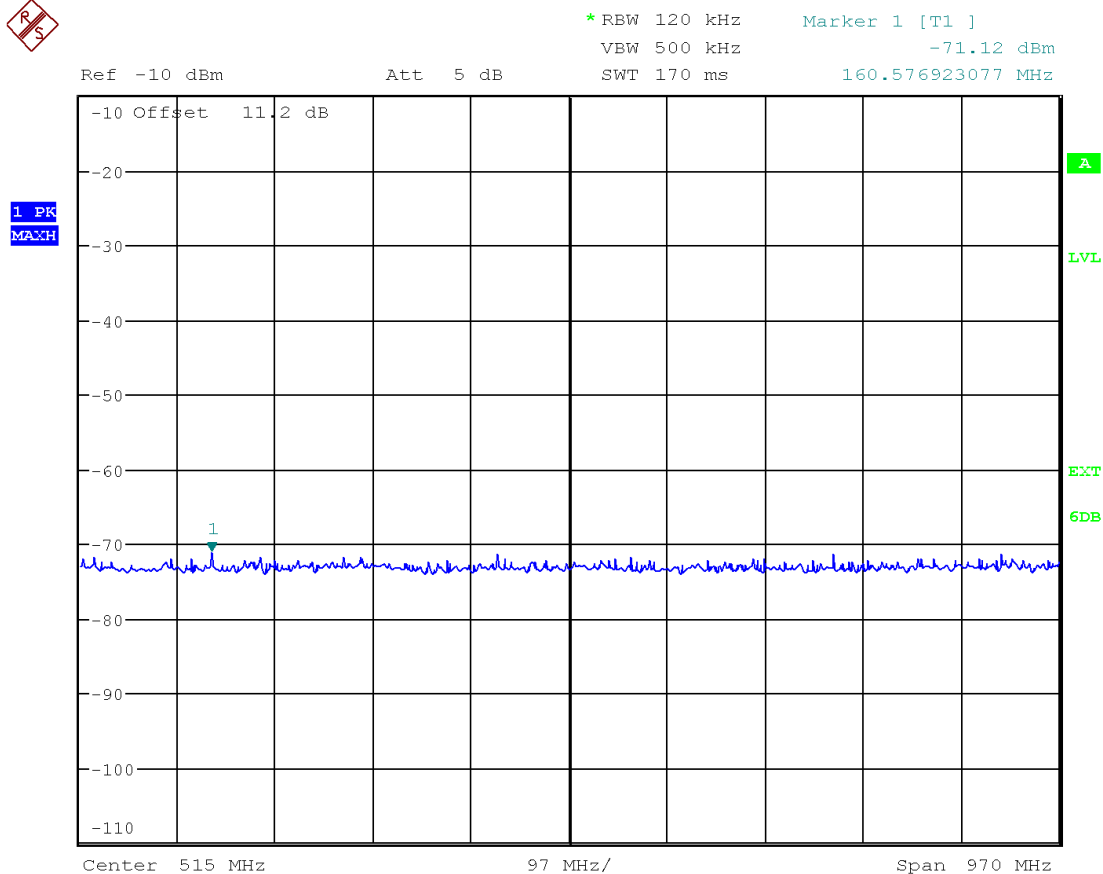
1 Result Table

EUT Conf.	Maximum Emission [dBm]	Verdict
1U_TM1_B	-69.25	Pass
1U_TM1_M	-68.46	Pass
1U_TM1_T	-69.31	Pass

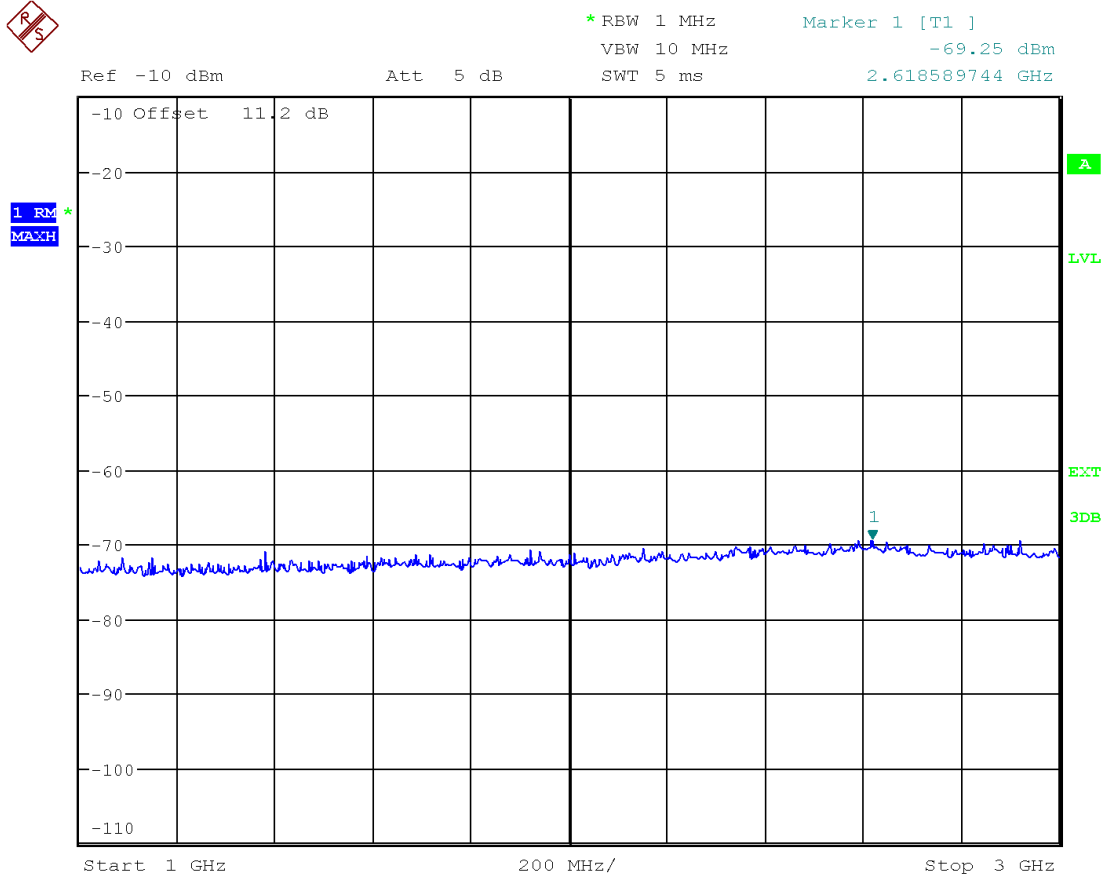


2 Test Plot

2.1 1U_TM1_B



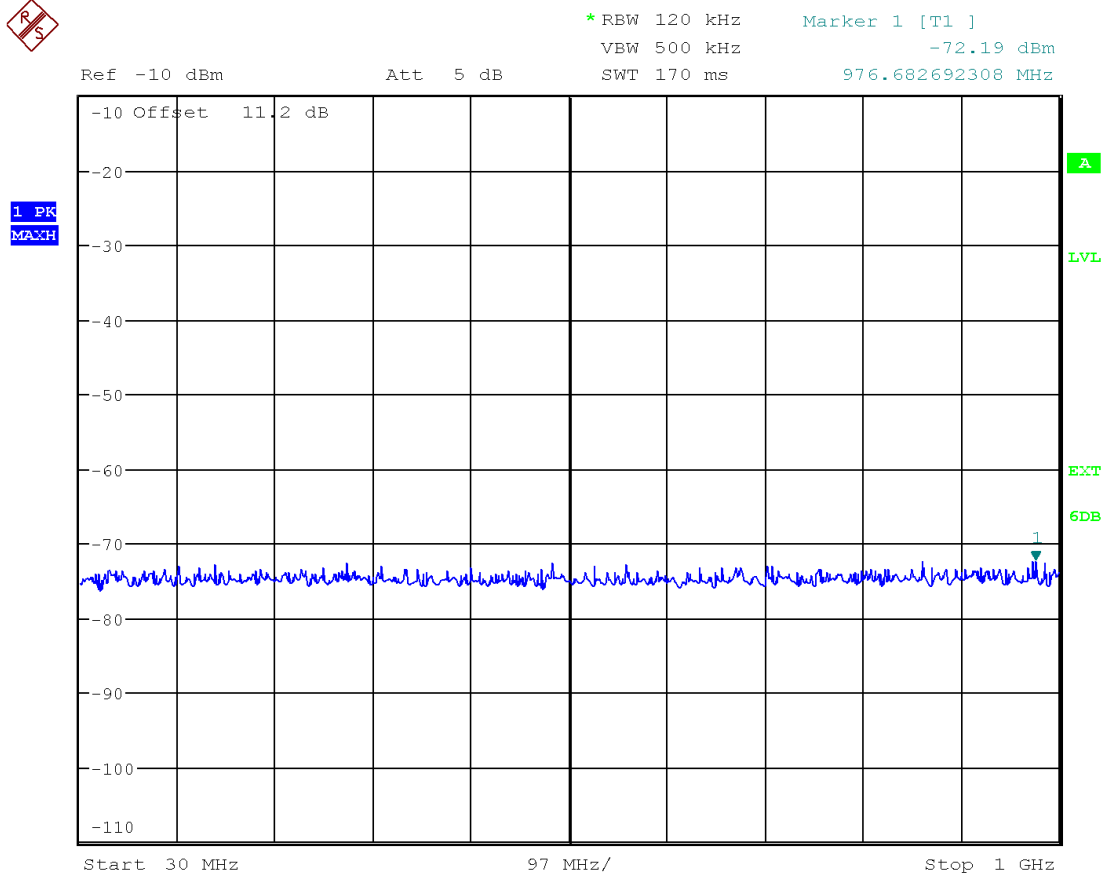
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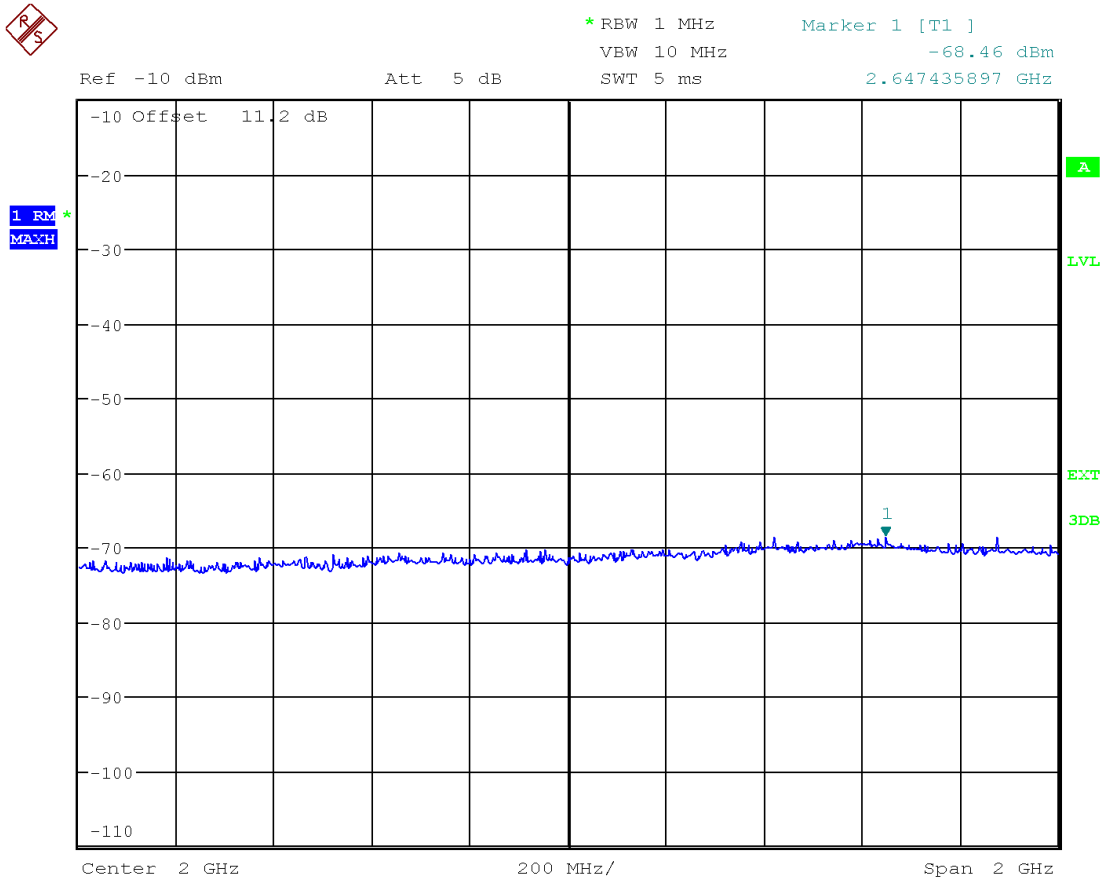
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2.2 1U_TM1_M



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Date: 6.MAR.2014 17:01:32

2.3 1U_TM1_T

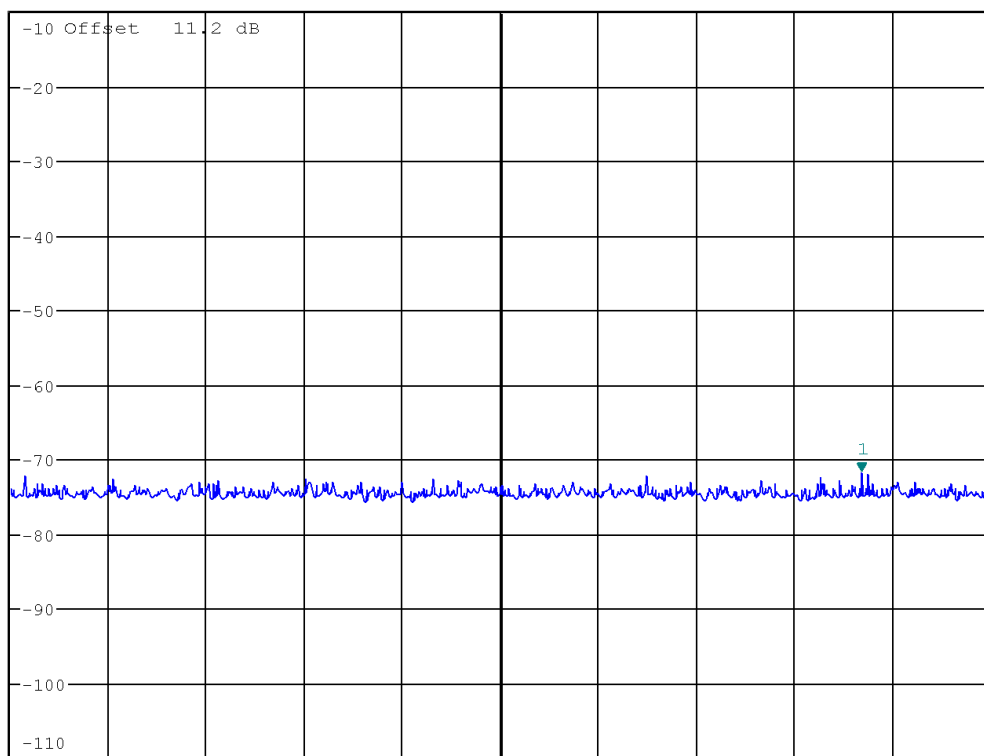


RBW 120 kHz Marker 1 [T1]
VBW 500 kHz -71.73 dBm
SWT 170 ms 147.660256 ms

Ref -10 dBm

Att 5 dB

1 PK
MAXH



Center 1 GHz

17 ms/

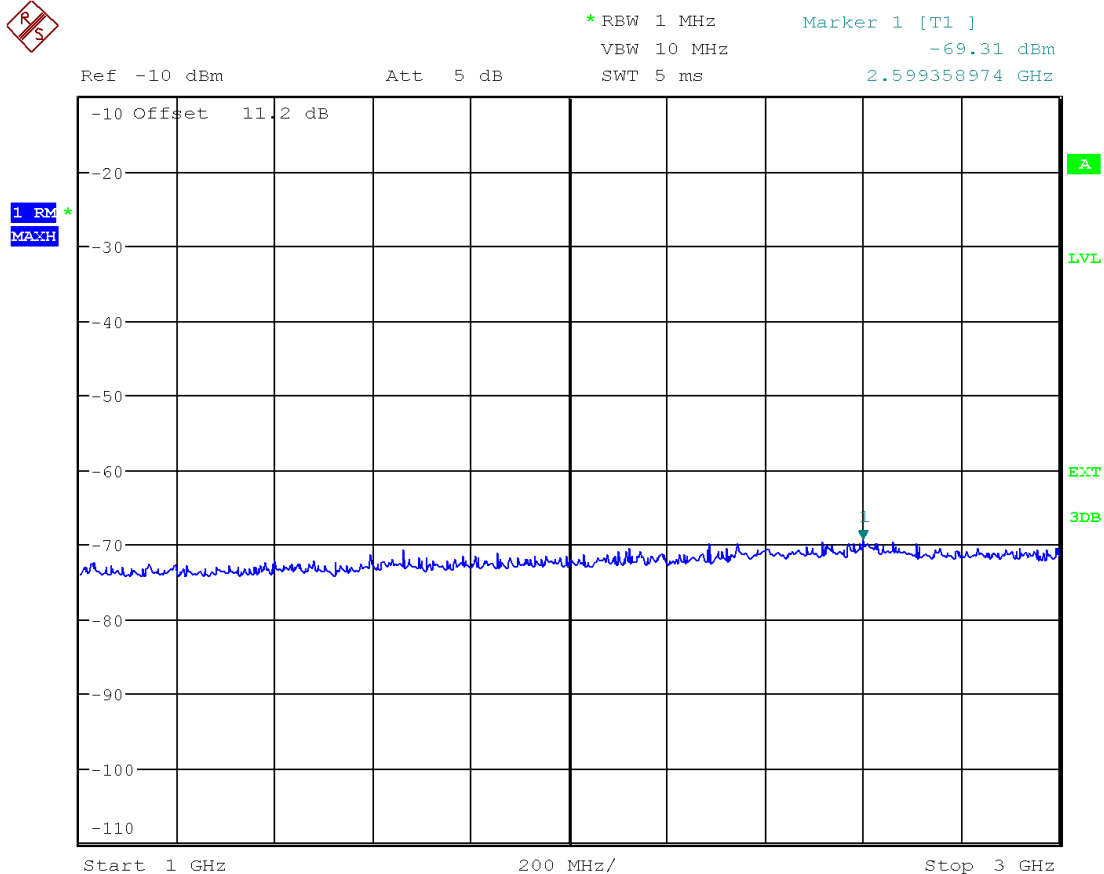
A

LVL

EXT

6DB

Date: 6.MAR.2014 16:59:06



Date: 6.MAR.2014 16:59:34