



Appendix A: Transmitter Output Power

1 Result Table

1.1 Channel Power (Total)

The output power of the EUT was measured at the antenna terminal. Since the EUT transmits on two antennas simultaneously in the same frequency with MIMO mode, using the Measure-and-sum approach, the output power at both antennas were tested, and the total output power were then summed.

The antenna is not the standard configuration of the EUT, so the antenna gain is assumed as 0 dBi.

1.1.1 Uplink Test Results

Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

1.1.2 Downlink Test Results (without AGC activated)

1.1.2.1 GSM system

EUT Conf.	Channel Power [dBm]	total[W]	Verdict
DL_1G_TM1_B_ANTA& DL_1G_TM1_B_ANTB	43.43&43.58	44.83	Pass
DL_1G_TM1_M_ANTA& DL_1G_TM1_M_ANTB	43.91&43.5	46.99	Pass
DL_1G_TM1_T_ANTA& DL_1G_TM1_T_ANTB	43.17&43.26	41.93	Pass
DL_1G_TM2_B_ANTA& DL_1G_TM2_B_ANTB	43.33&43.65	44.70	Pass
DL_1G_TM2_M_ANTA& DL_1G_TM2_M_ANTB	43.49&44.05	47.75	Pass
DL_1G_TM2_T_ANTA& DL_1G_TM2_T_ANTB	43.23&43.27	42.27	Pass

1.1.2.2 UMTS system

EUT Conf.	Channel Power [dBm]	total[W]	Verdict
DL_1U_TM1_B_ANTA& DL_1U_TM1_B_ANTB	43.72&44.04	48.90	Pass
DL_1U_TM1_M_ANTA& DL_1U_TM1_M_ANTB	43.36&43.29	43.01	Pass
DL_1U_TM1_T_ANTA&	43.55&43.68	45.98	Pass

EUT Conf.	Channel Power [dBm]	total[W]	Verdict
DL_1U_TM1_T_ANTB			

1.1.2.3 LTE system

EUT Conf.	Channel Power [dBm]	total[W]	Verdict
DL_1L_1.4M_B_ANTA& DL_1L_1.4M_B_ANTB	43.22&43.85	45.26	Pass
DL_1L_1.4M_M_ANTA& DL_1L_1.4M_M_ANTB	42.83&42.82	38.33	Pass
DL_1L_1.4M_T_ANTA& DL_1L_1.4M_T_ANTB	43.08&43.09	40.69	Pass
DL_1L_20M_B_ANTA& DL_1L_20M_B_ANTB	43.47&43.27	43.47	Pass
DL_1L_20M_M_ANTA& DL_1L_20M_M_ANTB	43.41&43.15	42.58	Pass
DL_1L_20M_T_ANTA& DL_1L_20M_T_ANTB	43.79&43.63	47.00	Pass

1.1.3 Downlink Test Results (input signal +10dB with AGC activated)

1.1.3.1 GSM system

EUT Conf.	Channel Power [dBm]	total[W]	Verdict
DL_1G_TM1_B_ANTA& DL_1G_TM1_B_ANTB	43.53&43.63	45.59	Pass
DL_1G_TM1_M_ANTA& DL_1G_TM1_M_ANTB	43.96&43.55	47.52	Pass
DL_1G_TM1_T_ANTA& DL_1G_TM1_T_ANTB	43.19&43.26	42.06	Pass
DL_1G_TM2_B_ANTA& DL_1G_TM2_B_ANTB	43.37&43.68	45.08	Pass
DL_1G_TM2_M_ANTA& DL_1G_TM2_M_ANTB	43.57&44.09	48.36	Pass
DL_1G_TM2_T_ANTA& DL_1G_TM2_T_ANTB	43.26&43.27	42.41	Pass

1.1.3.2 UMTS system

EUT Conf.	Channel Power [dBm]	total[W]	Verdict
DL_1U_TM1_B_ANTA& DL_1U_TM1_B_ANTB	43.82&44.11	49.86	Pass
DL_1U_TM1_M_ANTA&	43.39&43.31	43.24	Pass



EUT Conf.	Channel Power [dBm]	total[W]	Verdict
DL_1U_TM1_M_ANTB			
DL_1U_TM1_T_ANTA& DL_1U_TM1_T_ANTB	43.58&43.69	46.18	Pass

1.1.3.3 LTE system

EUT Conf.	Channel Power [dBm]	total[W]	Verdict
DL_1L_1.4M_B_ANTA& DL_1L_1.4M_B_ANTB	43.3&43.87	45.78	Pass
DL_1L_1.4M_M_ANTA& DL_1L_1.4M_M_ANTB	42.85&42.91	38.86	Pass
DL_1L_1.4M_T_ANTA& DL_1L_1.4M_T_ANTB	43.14&43.11	41.06	Pass
DL_1L_20M_B_ANTA& DL_1L_20M_B_ANTB	43.55&43.31	44.10	Pass
DL_1L_20M_M_ANTA& DL_1L_20M_M_ANTB	43.42&43.16	42.70	Pass
DL_1L_20M_T_ANTA& DL_1L_20M_T_ANTB	43.83&43.67	47.40	Pass

1.2 Peak-to-Average Ratio

1.2.1 Uplink Test Results

Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

1.2.2 Downlink Test Results

1.2.2.1.1 GSM system

EUT Conf.	Peak-to-Average Ratio [dB]	Verdict
DL_1G_TM1_M_ANTA	2.00	Pass
DL_1G_TM1_M_ANTB	2.07	Pass
DL_1G_TM2_M_ANTA	4.57	Pass
DL_1G_TM2_M_ANTB	4.56	Pass

1.2.2.1.2 UMTS system

EUT Conf.	Peak-to-Average Ratio [dB]	Verdict
DL_1U_TM1_M_ANTA	9.97	Pass
DL_1U_TM1_M_ANTB	9.74	Pass

1.2.2.1.3 LTE system

EUT Conf.	Peak-to-Average Ratio [dB]	Verdict
DL_1L_1.4M_M_ANTA	9.56	Pass
DL_1L_1.4M_M_ANTB	9.32	Pass
DL_1L_20M_M_ANTA	10.48	Pass
DL_1L_20M_M_ANTB	10.52	Pass



2 Test Plot

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

2.1 Peak-to-Average Ratio

2.1.1 Uplink Test Plots

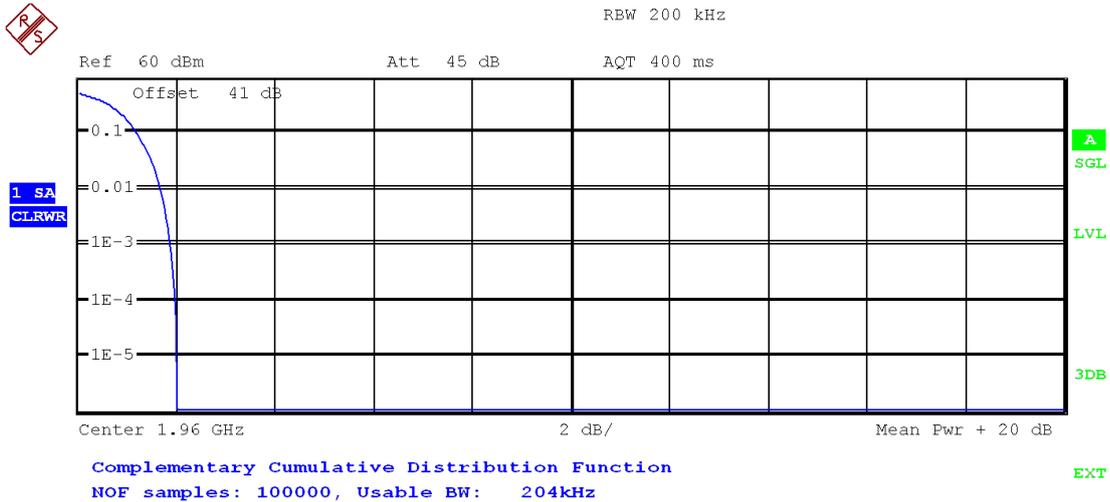
Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

2.1.2 Downlink Test Plots

2.1.2.1 GSM system

2.1.2.1.1 DL_1G_TM1_M_ANTA

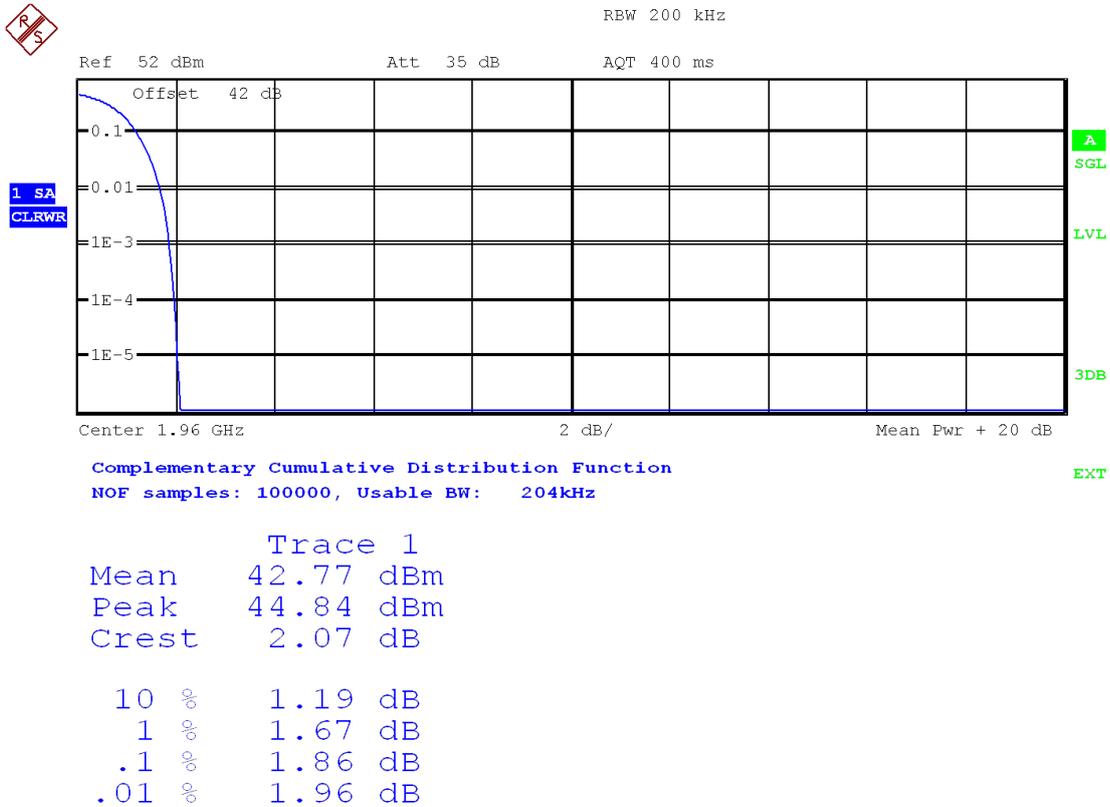


Trace 1

Mean	42.38	dBm
Peak	44.38	dBm
Crest	2.00	dB
10 %	1.19	dB
1 %	1.67	dB
.1 %	1.86	dB
.01 %	1.99	dB

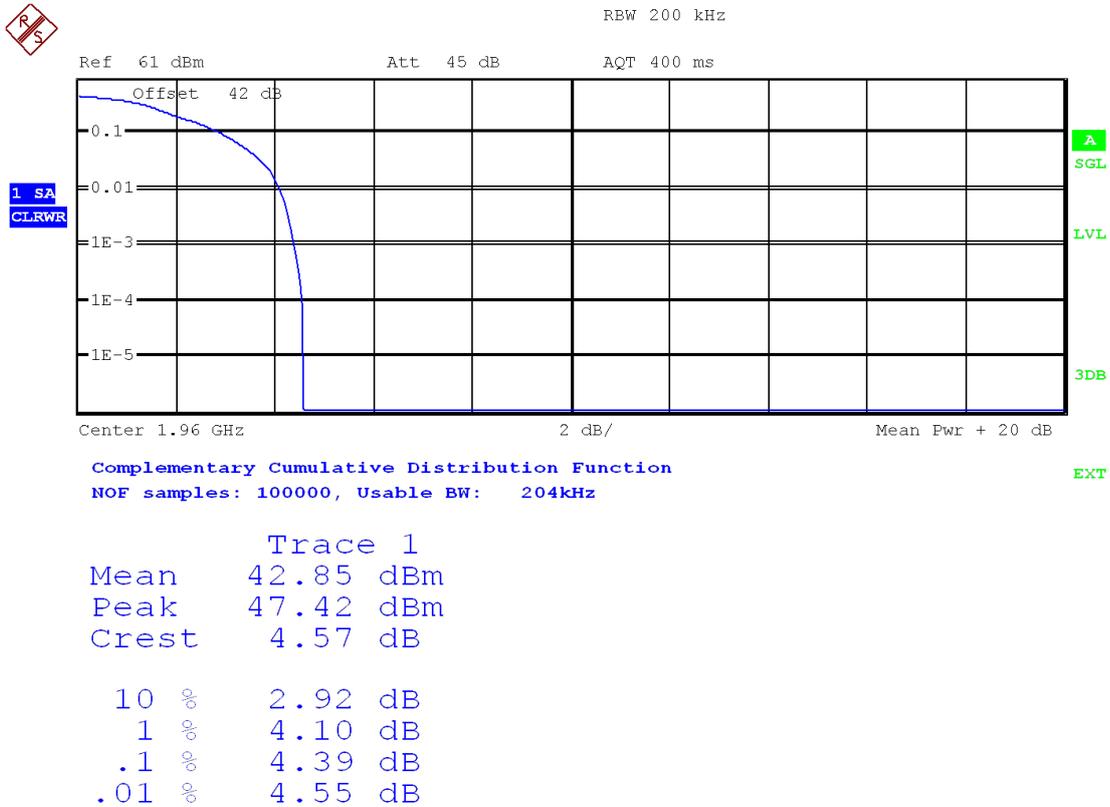
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2.1.2.1.2 DL_1G_TM1_M_ANTB



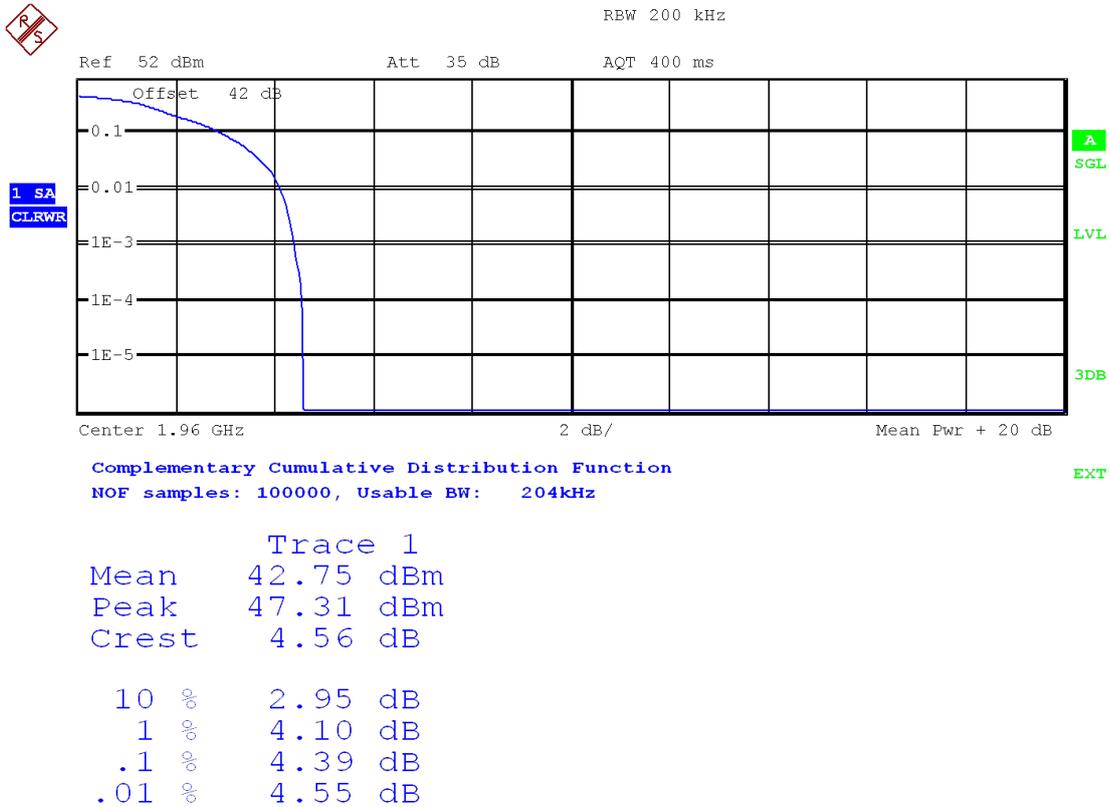
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2.1.2.1.3 DL_1G_TM2_M_ANTA



Date: 19.NOV.2013 12:04:37

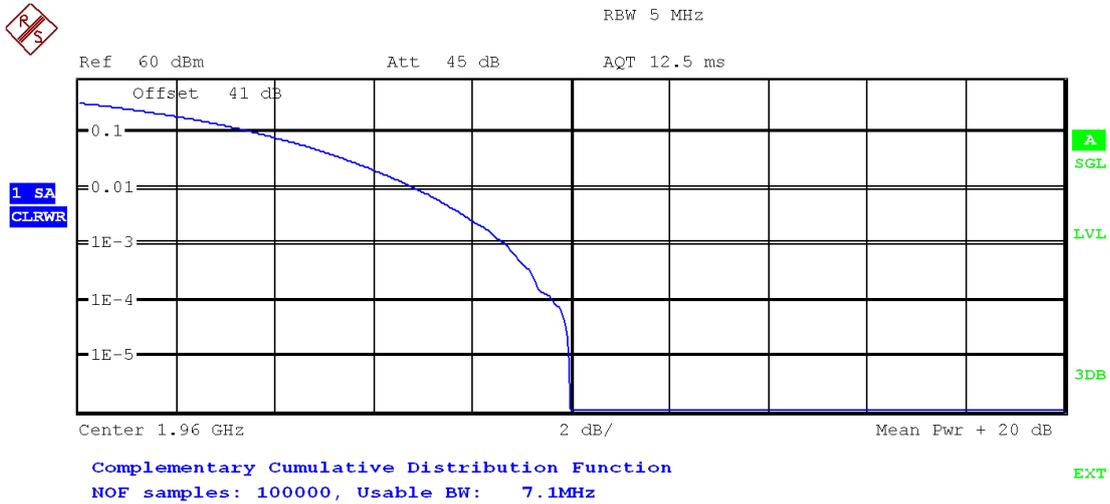
2.1.2.1.4 DL_1G_TM2_M_ANTB



Date: 19.NOV.2013 12:08:47

2.1.2.2 UMTS system

2.1.2.2.1 DL_1U_TM1_M_ANTA

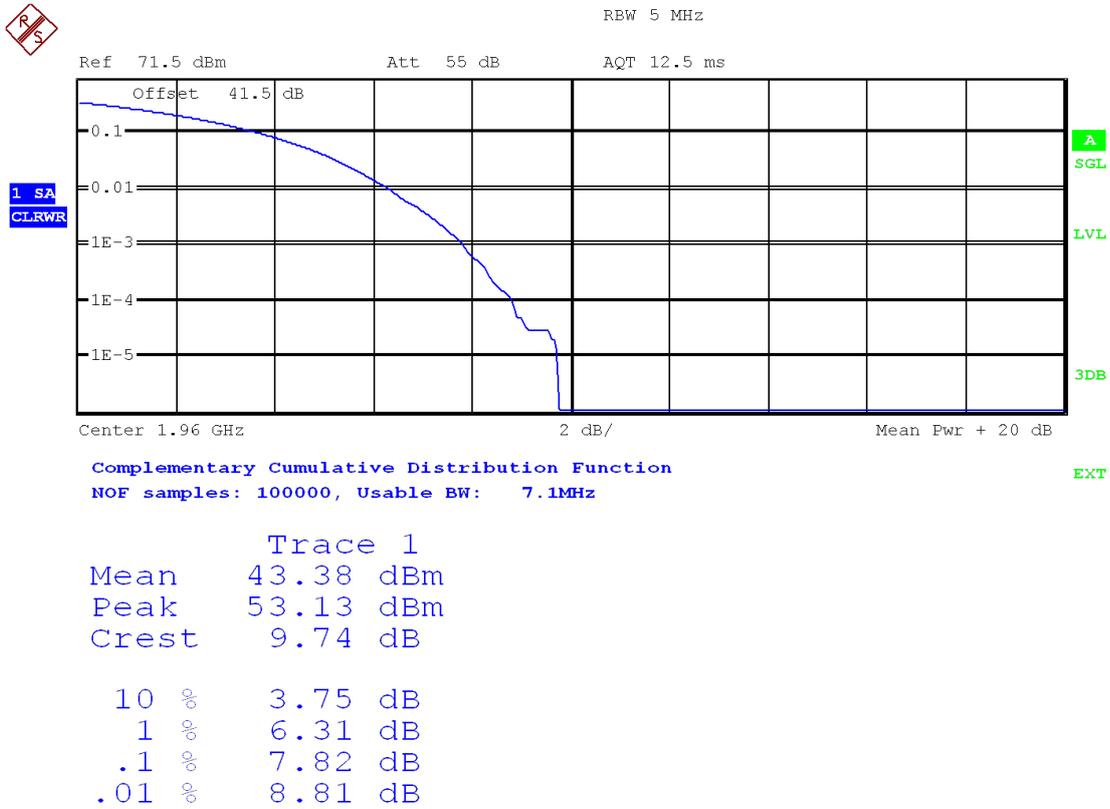


Trace 1

Mean	42.94 dBm
Peak	52.91 dBm
Crest	9.97 dB
10 %	3.69 dB
1 %	6.86 dB
.1 %	8.69 dB
.01 %	9.65 dB

Date: 19.NOV.2013 11:57:50

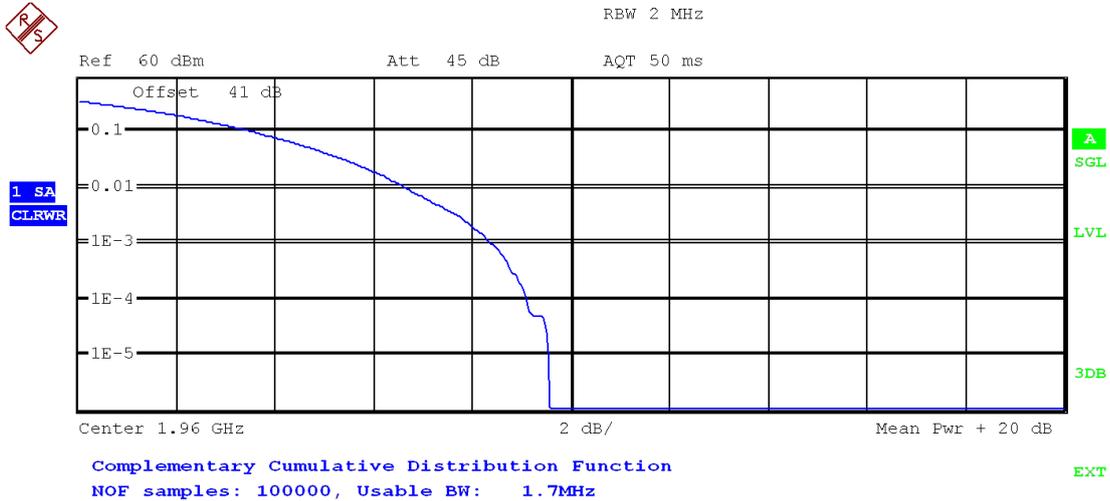
2.1.2.2.2 DL_1U_TM1_M_ANTB



Date: 19.NOV.2013 12:17:08

2.1.2.3 LTE system

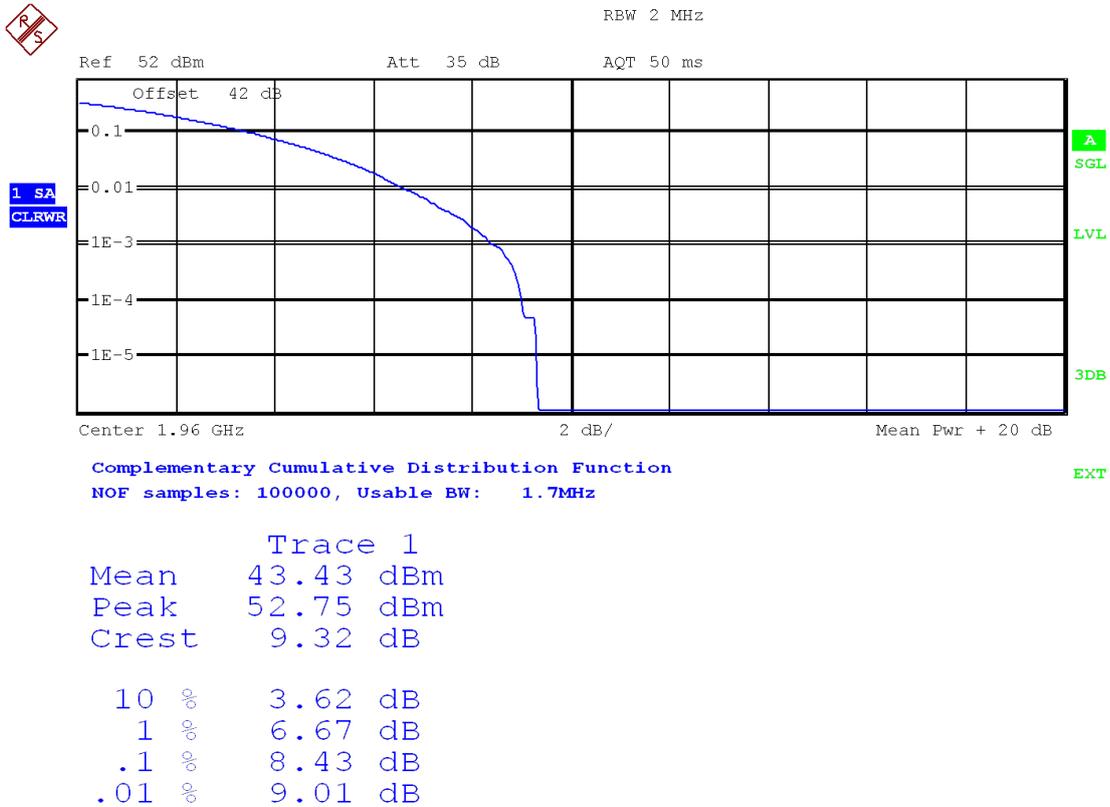
2.1.2.3.1 DL_1L_1.4M_M_ANTA



Trace 1	
Mean	42.51 dBm
Peak	52.07 dBm
Crest	9.56 dB
10 %	3.62 dB
1 %	6.67 dB
.1 %	8.37 dB
.01 %	9.10 dB

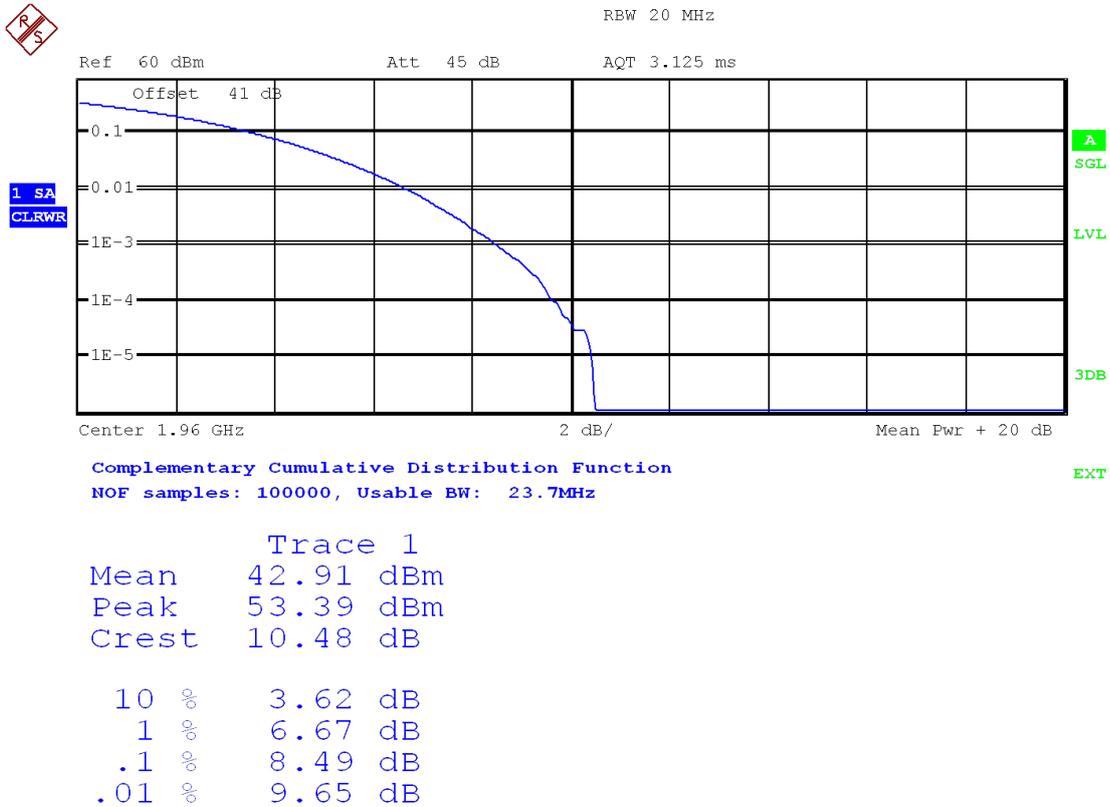
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2.1.2.3.2 DL_1L_1.4M_M_ANTB



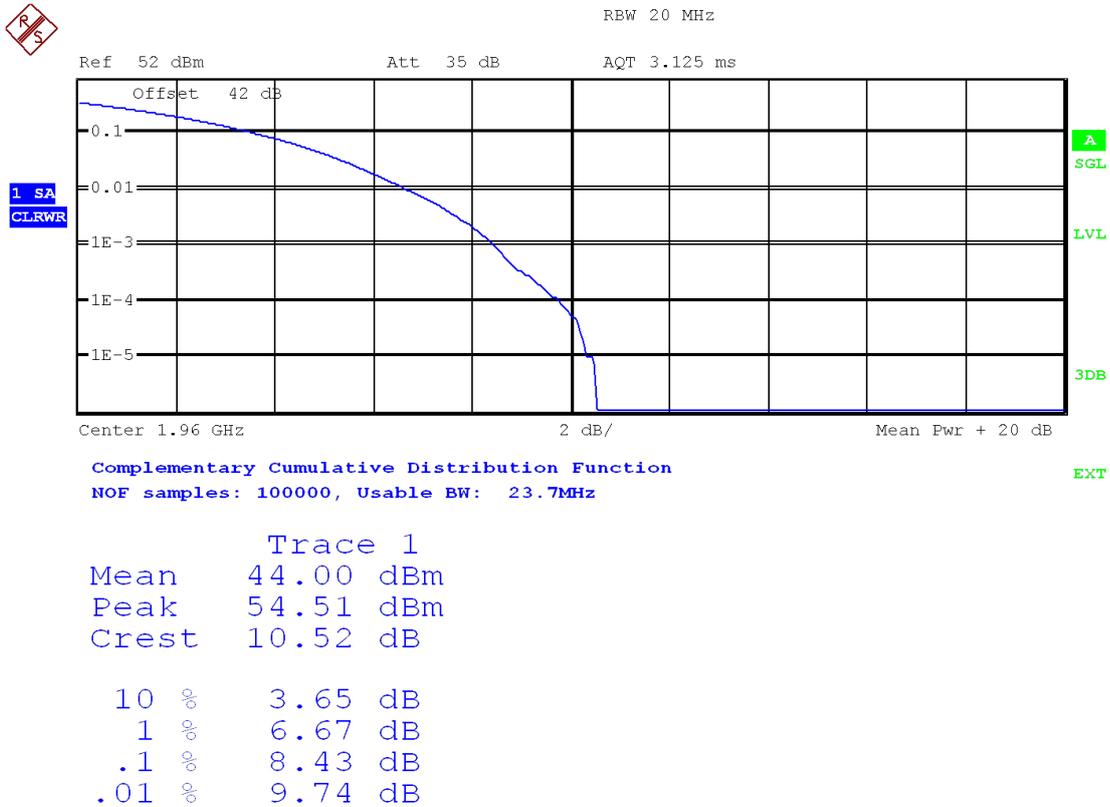
Date: 19.NOV.2013 12:11:09

2.1.2.3.3 DL_1L_20M_M_ANTA



Date: 19.NOV.2013 12:00:49

2.1.2.3.4 DL_1L_20M_M_ANTB



Date: 19.NOV.2013 12:11:51



Appendix B: Bandwidth

1 Result Table

1.1 Occupied Bandwidth

1.1.1 Uplink Test Results

Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

1.1.2 Downlink Test Results (without AGC activated)

1.1.2.1 GSM system

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
DL_1G_TM1_M_ANTA	0.244391	Pass
DL_1G_TM1_M_ANTB	0.244391	Pass
DL_1G_TM2_M_ANTA	0.243590	Pass
DL_1G_TM2_M_ANTB	0.243590	Pass

1.1.2.2 UMTS system

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
DL_1U_TM1_M_ANTA	4.166667	Pass
DL_1U_TM1_M_ANTB	4.166667	Pass

1.1.2.3 LTE system

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
DL_1L_1.4M_M_ANTA	1.071314	Pass
DL_1L_1.4M_M_ANTB	1.076923	Pass
DL_1L_20M_M_ANTA	17.888889	Pass
DL_1L_20M_M_ANTB	17.888889	Pass

1.1.3 Downlink Test Results (input signal +10dB with AGC activated)

1.1.3.1 GSM system

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
DL_1G_TM1_M_ANTA	0.245192	Pass
DL_1G_TM1_M_ANTB	0.245192	Pass
DL_1G_TM2_M_ANTA	0.245192	Pass



EUT Conf.	Occupied Bandwidth [MHz]	Verdict
DL_1G_TM2_M_ANTB	0.244391	Pass

1.1.3.2 UMTS system

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
DL_1U_TM1_M_ANTA	4.186699	Pass
DL_1U_TM1_M_ANTB	4.186699	Pass

1.1.3.3 LTE system

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
DL_1L_1.4M_M_ANTA	1.099360	Pass
DL_1L_1.4M_M_ANTB	1.099360	Pass
DL_1L_20M_M_ANTA	17.888889	Pass
DL_1L_20M_M_ANTB	17.888889	Pass

1.2 20dB Bandwidth

1.2.1 Uplink Test Results

Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

1.2.2 Downlink Test Results

1.2.2.1 GSM system

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
DL_1G_TM1_M_ANTA	0.27584	Pass
DL_1G_TM1_M_ANTB	0.270592	Pass
DL_1G_TM2_M_ANTA	0.277888	Pass
DL_1G_TM2_M_ANTB	0.27264	Pass

1.2.2.2 UMTS system

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
DL_1U_TM1_M_ANTA	4.600064	Pass
DL_1U_TM1_M_ANTB	4.620032	Pass

1.2.2.3 LTE system



EUT Conf.	Occupied Bandwidth [MHz]	Verdict
DL_1L_1.4M_M_ANTA	1.351808	Pass
DL_1L_1.4M_M_ANTB	1.35168	Pass
DL_1L_20M_M_ANTA	18.882304	Pass
DL_1L_20M_M_ANTB	18.882304	Pass

1.3 26dB Bandwidth

1.3.1 Uplink Test Results

Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

1.3.2 Downlink Test Results

1.3.2.1 GSM system

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
DL_1G_TM1_M_ANTA	0.310016	Pass
DL_1G_TM1_M_ANTB	0.309376	Pass
DL_1G_TM2_M_ANTA	0.306176	Pass
DL_1G_TM2_M_ANTB	0.30656	Pass

1.3.2.2 UMTS system

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
DL_1U_TM1_M_ANTA	4.620032	Pass
DL_1U_TM1_M_ANTB	4.620032	Pass

1.3.2.3 LTE system

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
DL_1L_1.4M_M_ANTA	1.318144	Pass
DL_1L_1.4M_M_ANTB	1.323776	Pass
DL_1L_20M_M_ANTA	18.56	Pass
DL_1L_20M_M_ANTB	18.569984	Pass

2 Test Plot

2.1 Occupied Bandwidth (without AGC activated)

2.1.1 Uplink Test Plots

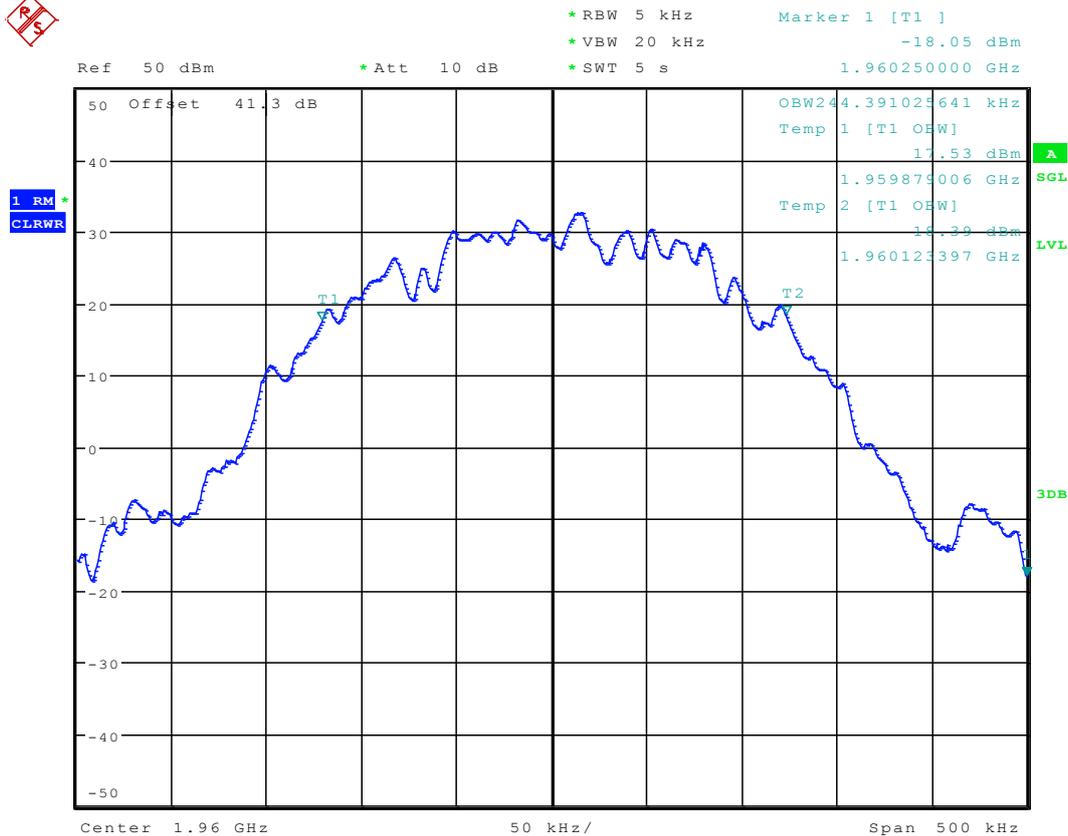
Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

2.1.2 Downlink Test Plots

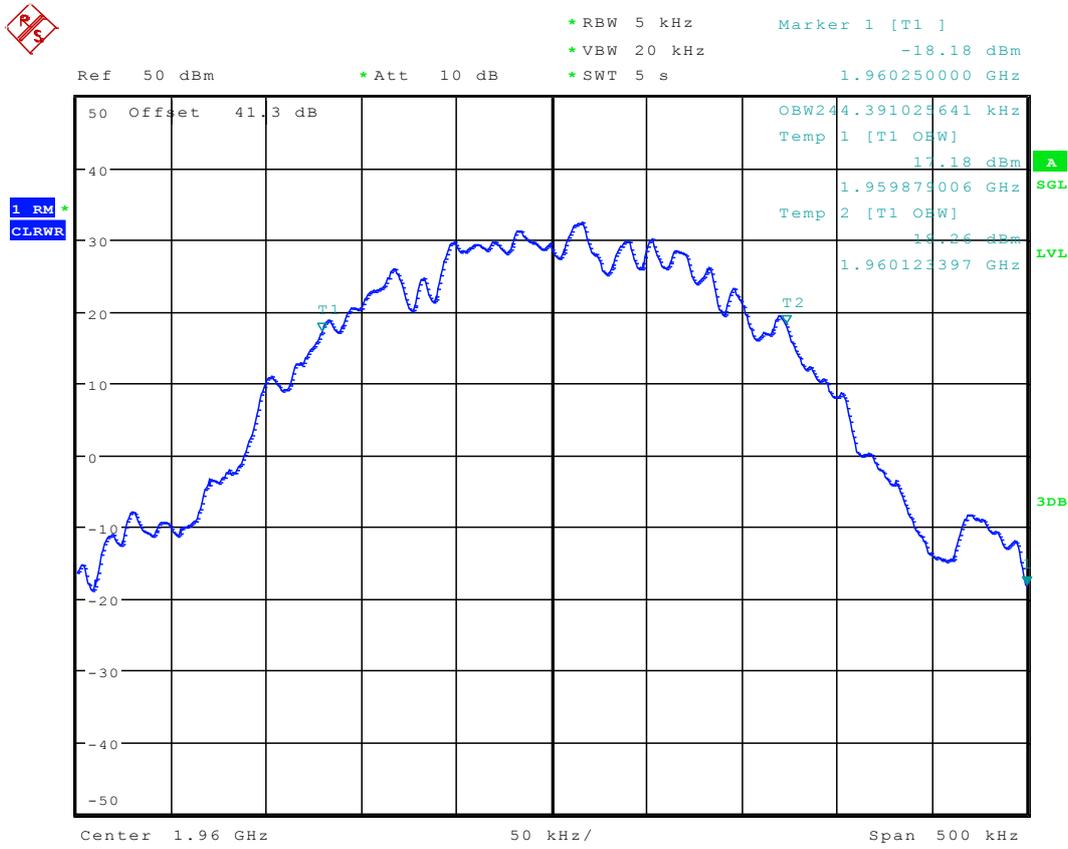
2.1.2.1 GSM system

2.1.2.1.1 DL_1G_TM1_M_ANTA



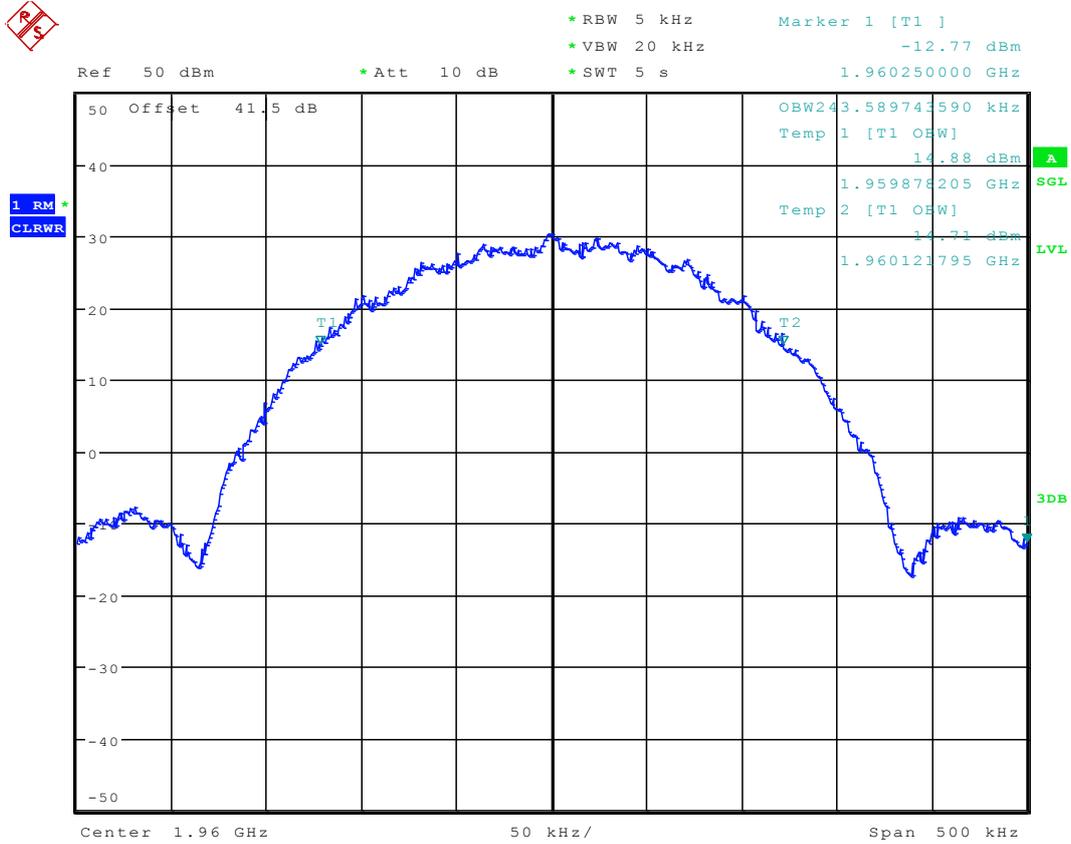
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2.1.2.1.2 DL_1G_TM1_M_ANTB



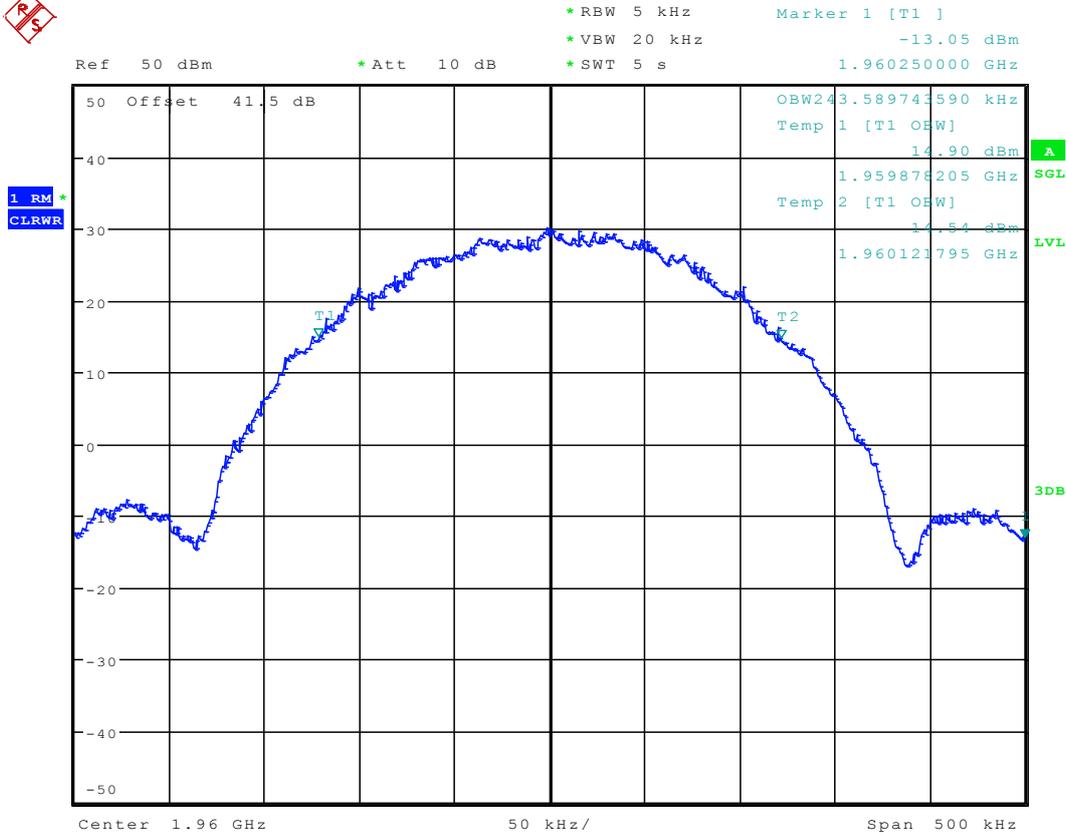
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2.1.2.1.3 DL_1G_TM2_M_ANTA



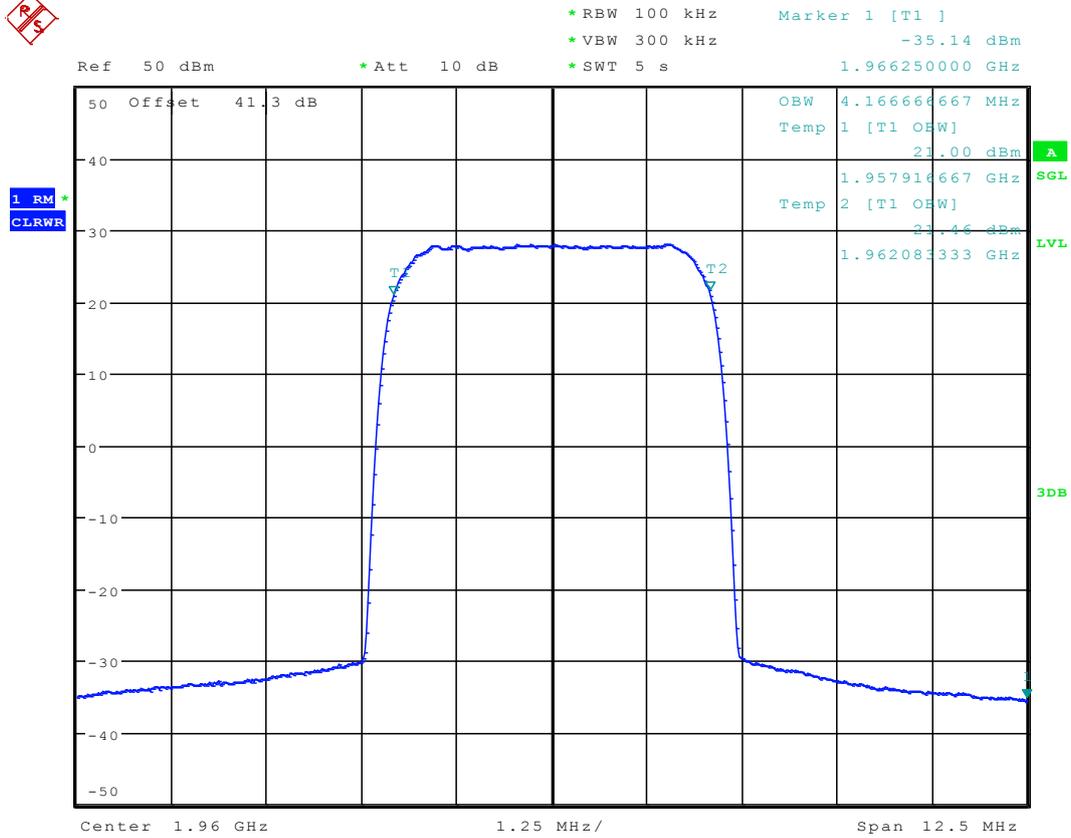
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2.1.2.1.4 DL_1G_TM2_M_ANTB



Date: 7.DEC.2013 17:22:09

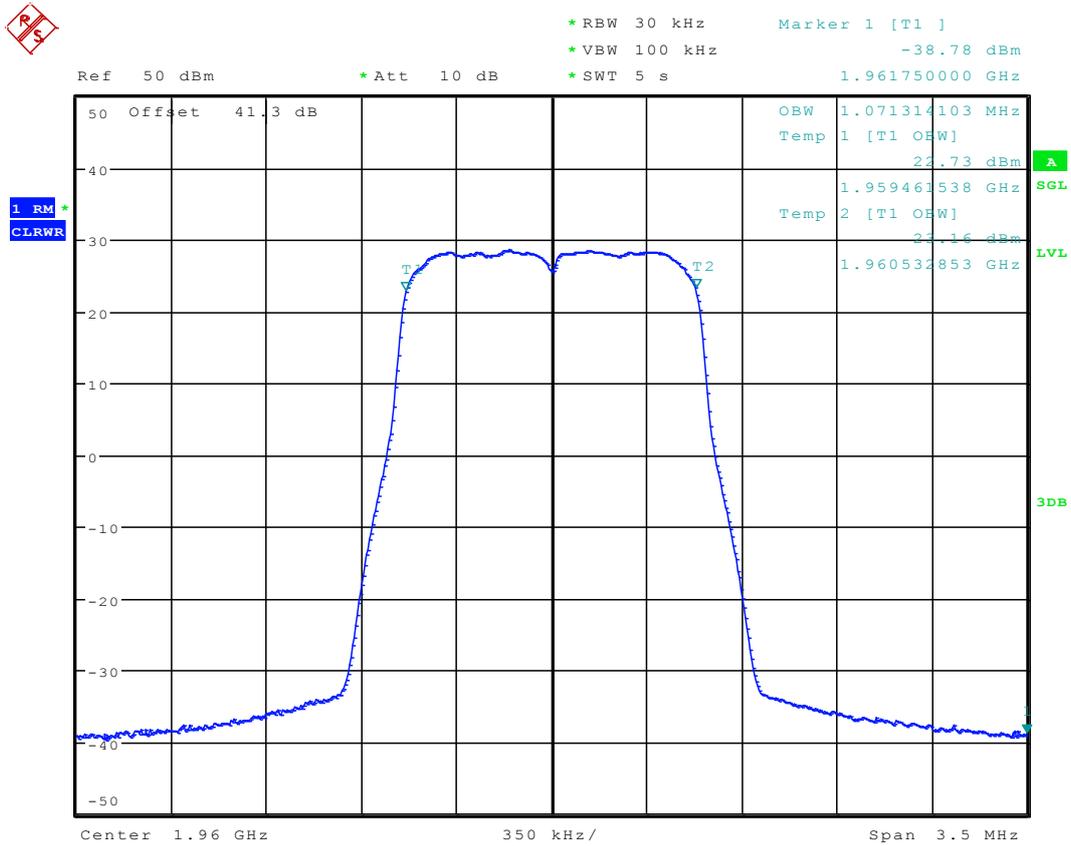
2.1.2.2.2 DL_1U_TM1_M_ANTB



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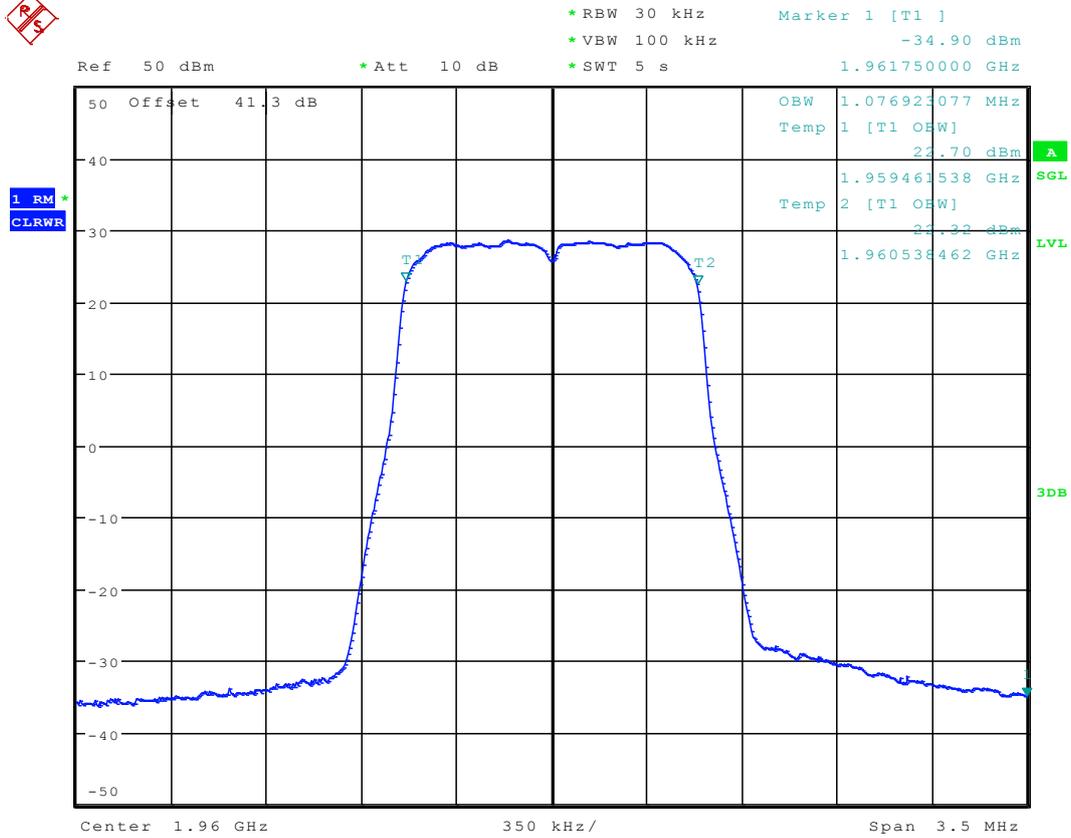
2.1.2.3 LTE system

2.1.2.3.1 DL_1L_1.4M_M_ANTA



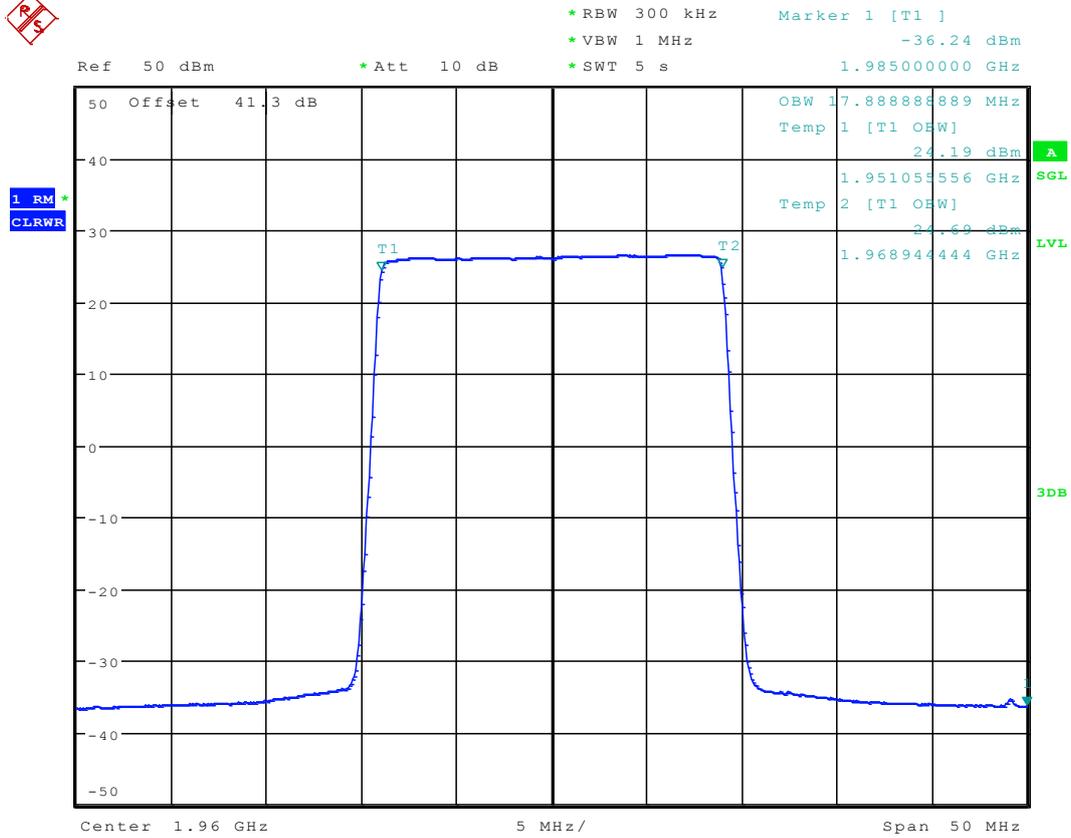
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2.1.2.3.2 DL_1L_1.4M_M_ANTB



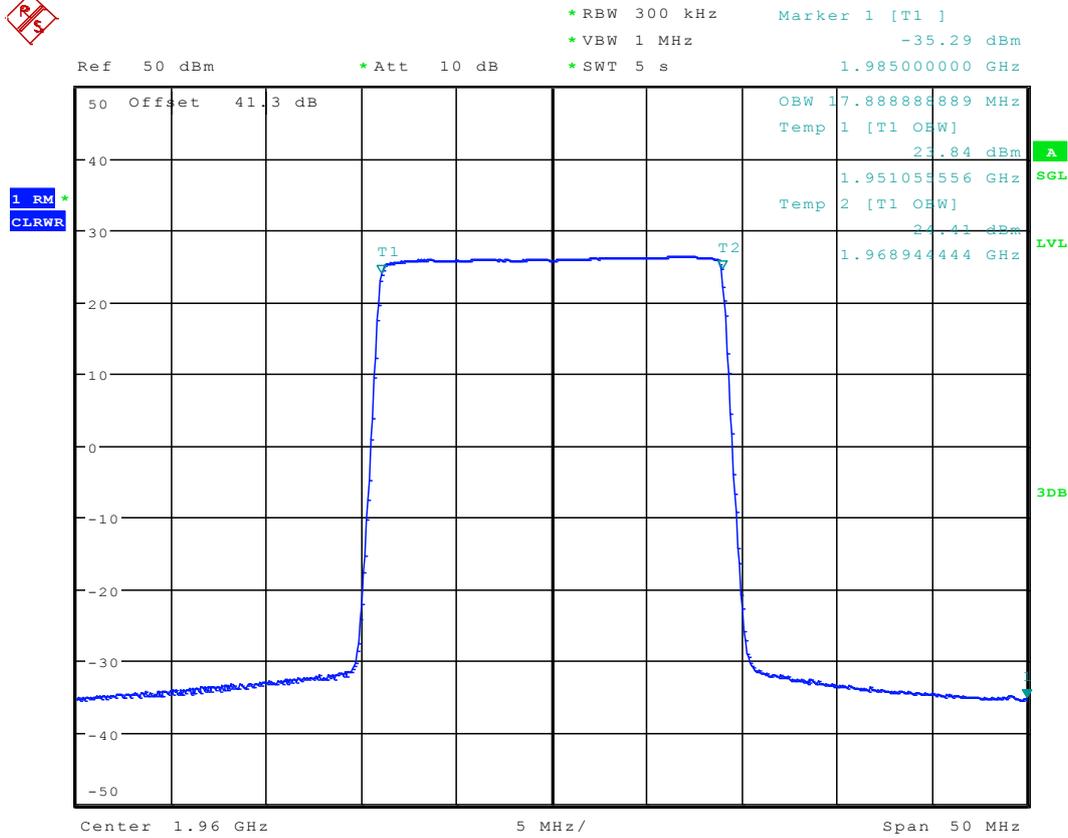
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2.1.2.3.3 DL_1L_20M_M_ANTA



Date: 25.SEP.2013 12:22:35

2.1.2.3.4 DL_1L_20M_M_ANTB

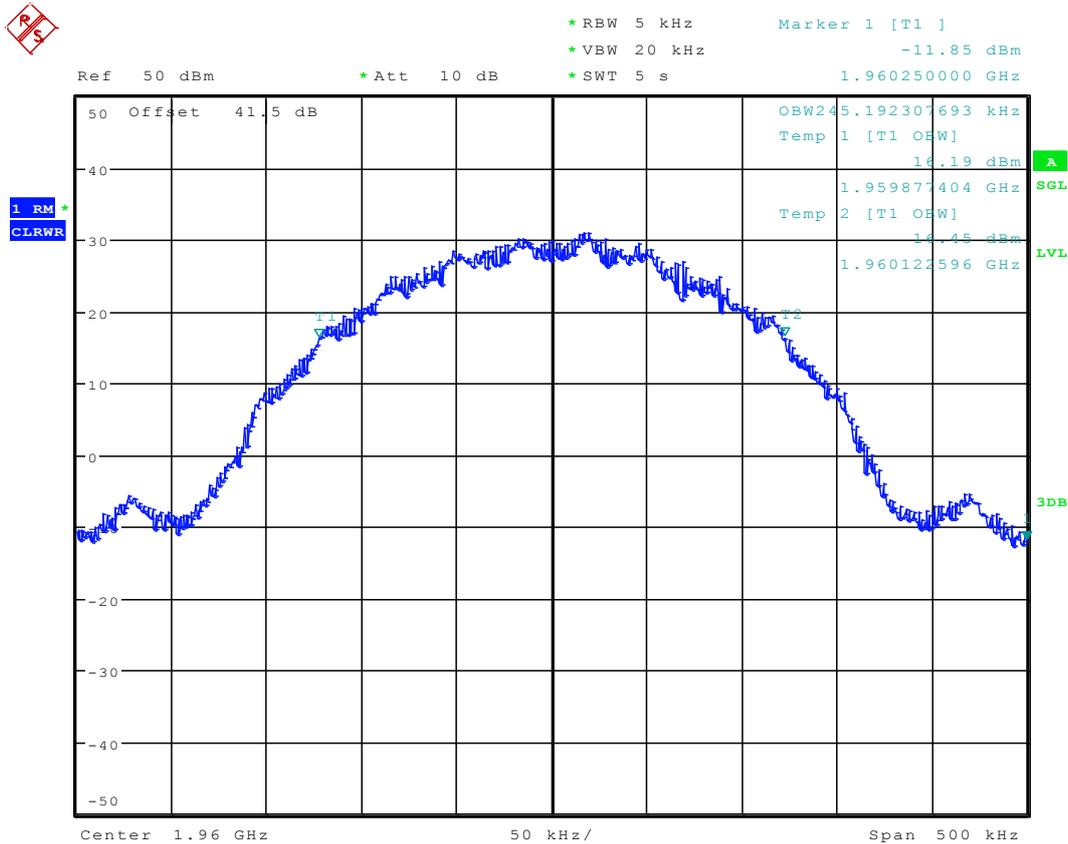


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2.1.3 Downlink Test Plots (input signal +10dB with AGC activated)

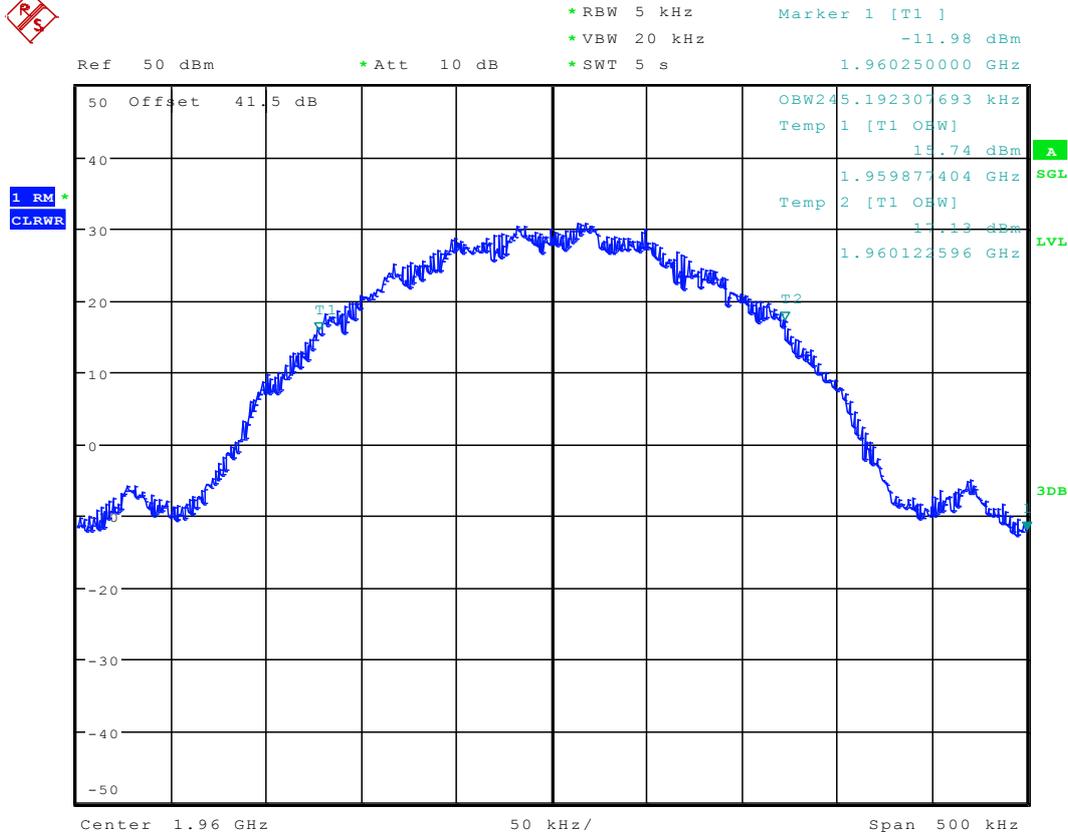
2.1.3.1 GSM system

2.1.3.1.1 DL_1G_TM1_M_ANTA



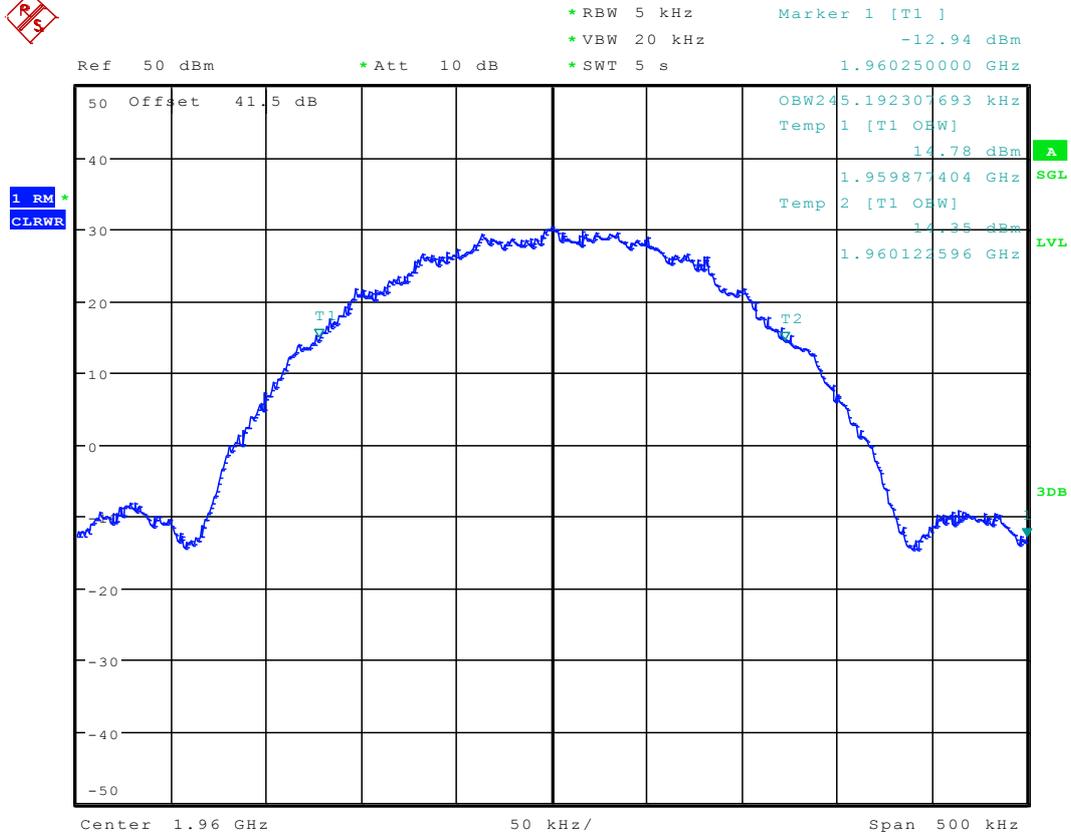
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2.1.3.1.2 DL_1G_TM1_M_ANTB



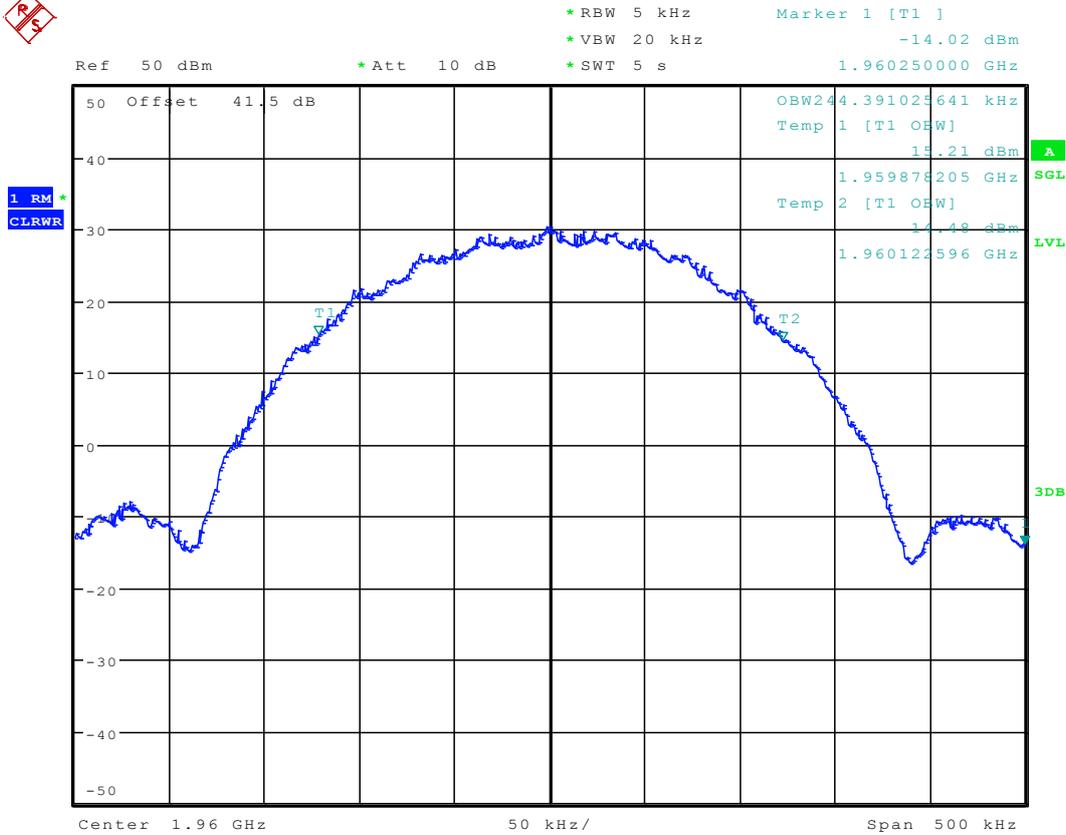
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2.1.3.1.3 DL_1G_TM2_M_ANTA



Date: 7.DEC.2013 17:13:44

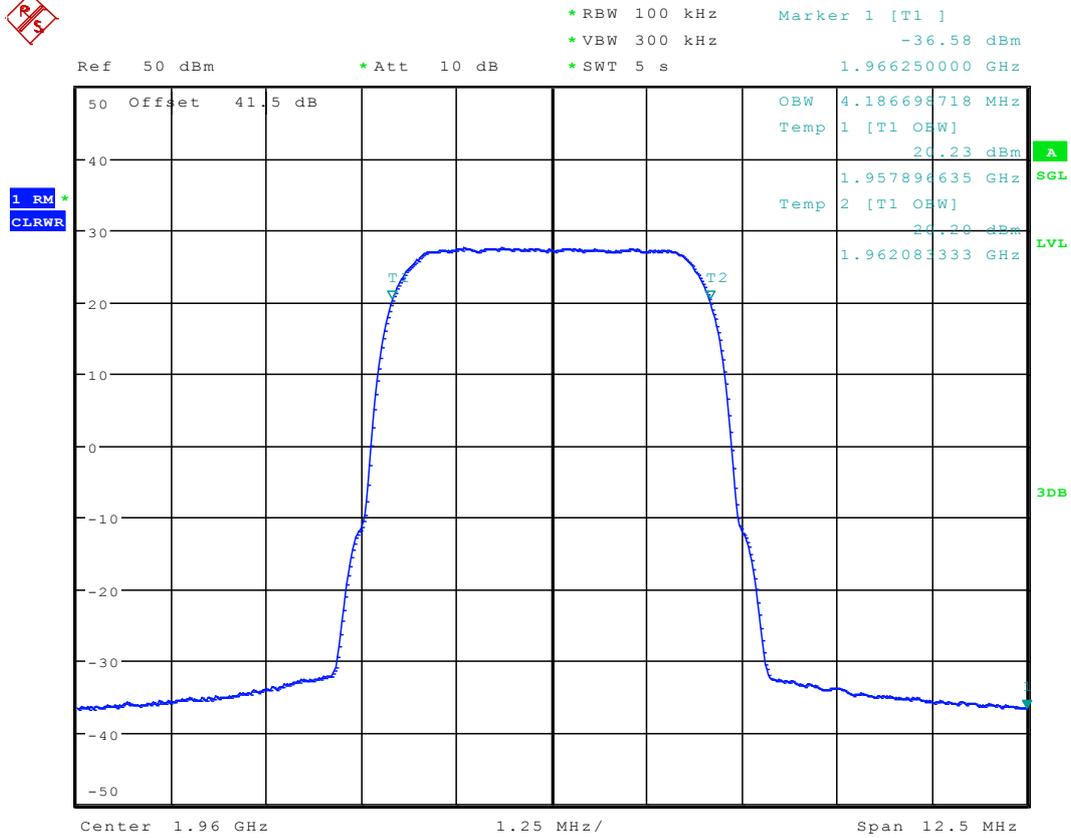
2.1.3.1.4 DL_1G_TM2_M_ANTB



Date: 7.DEC.2013 17:15:51

2.1.3.2 UMTS system

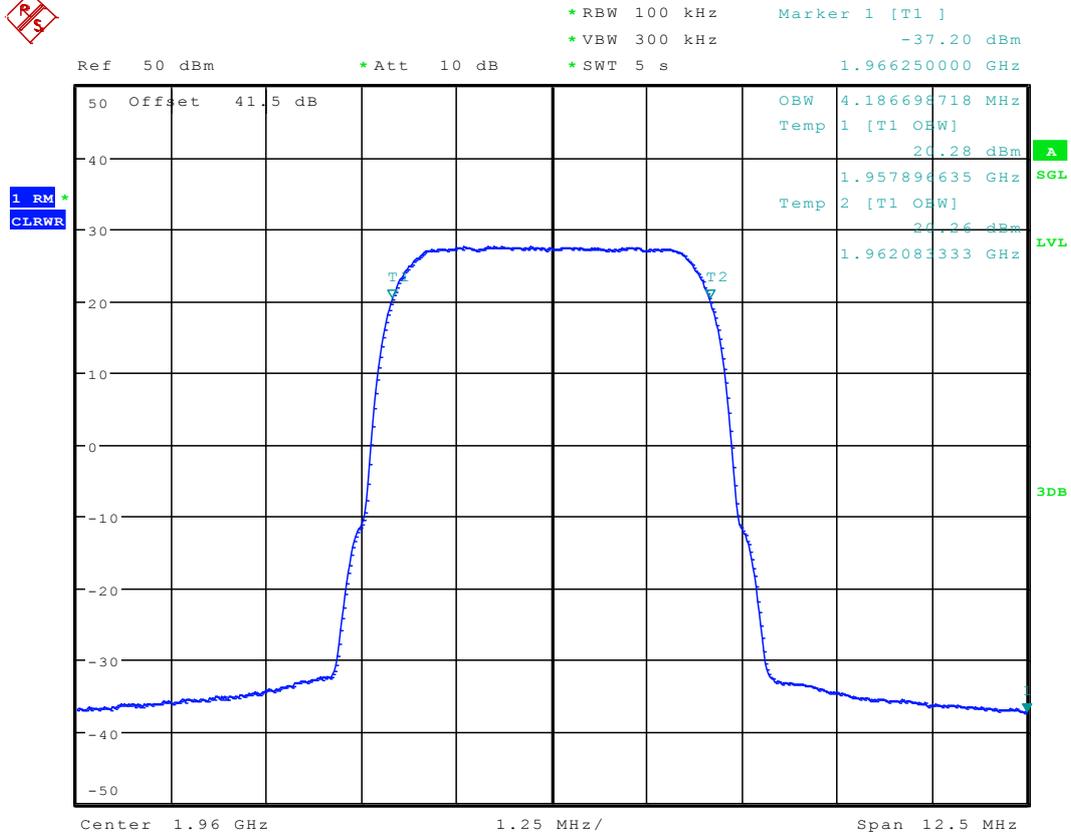
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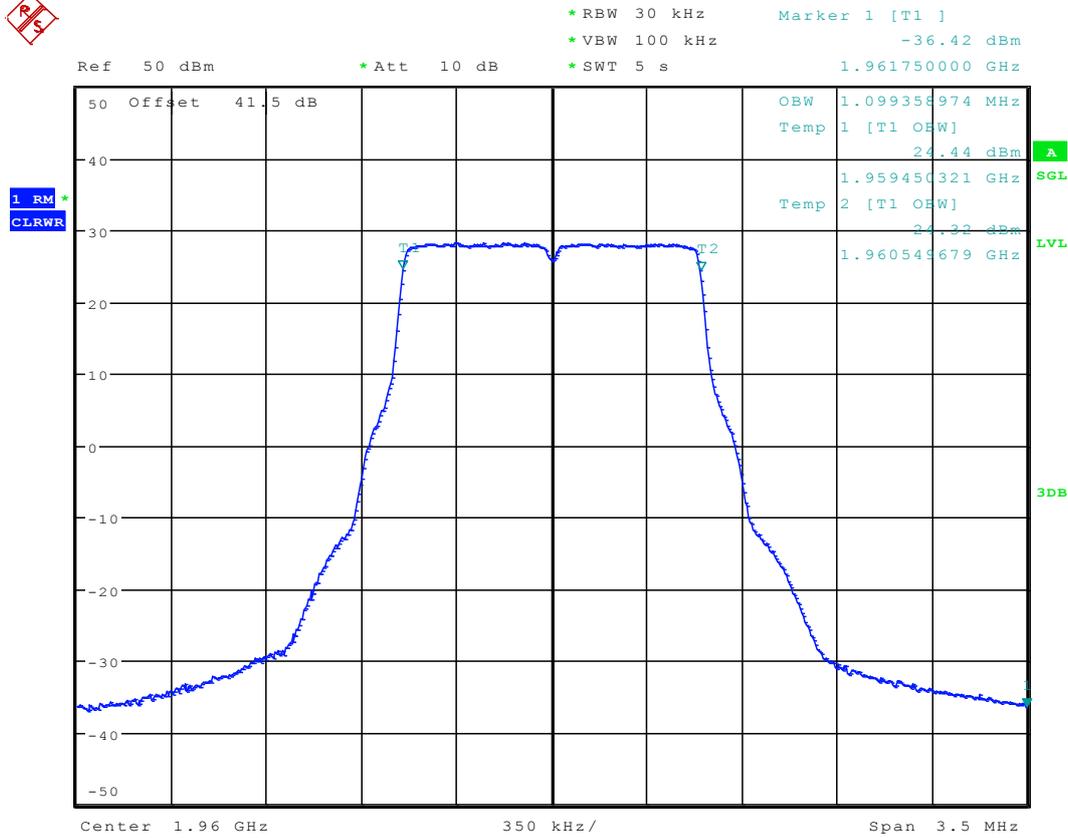
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2.1.3.3 LTE system

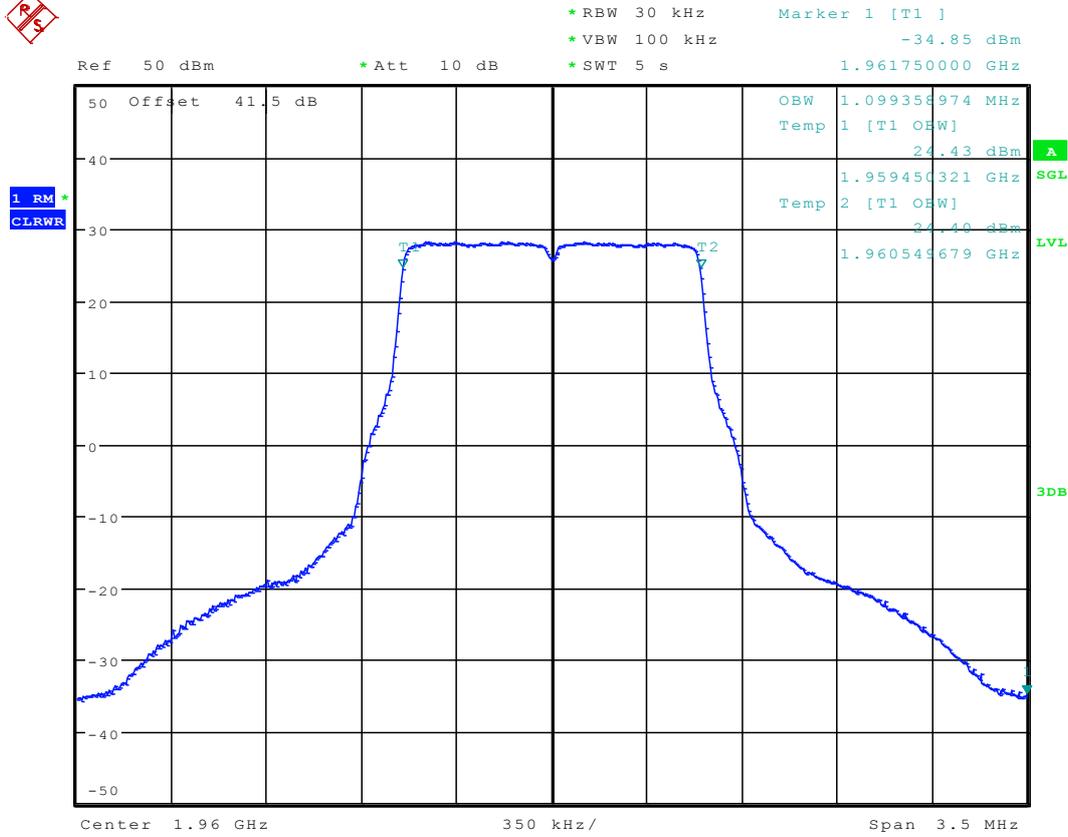
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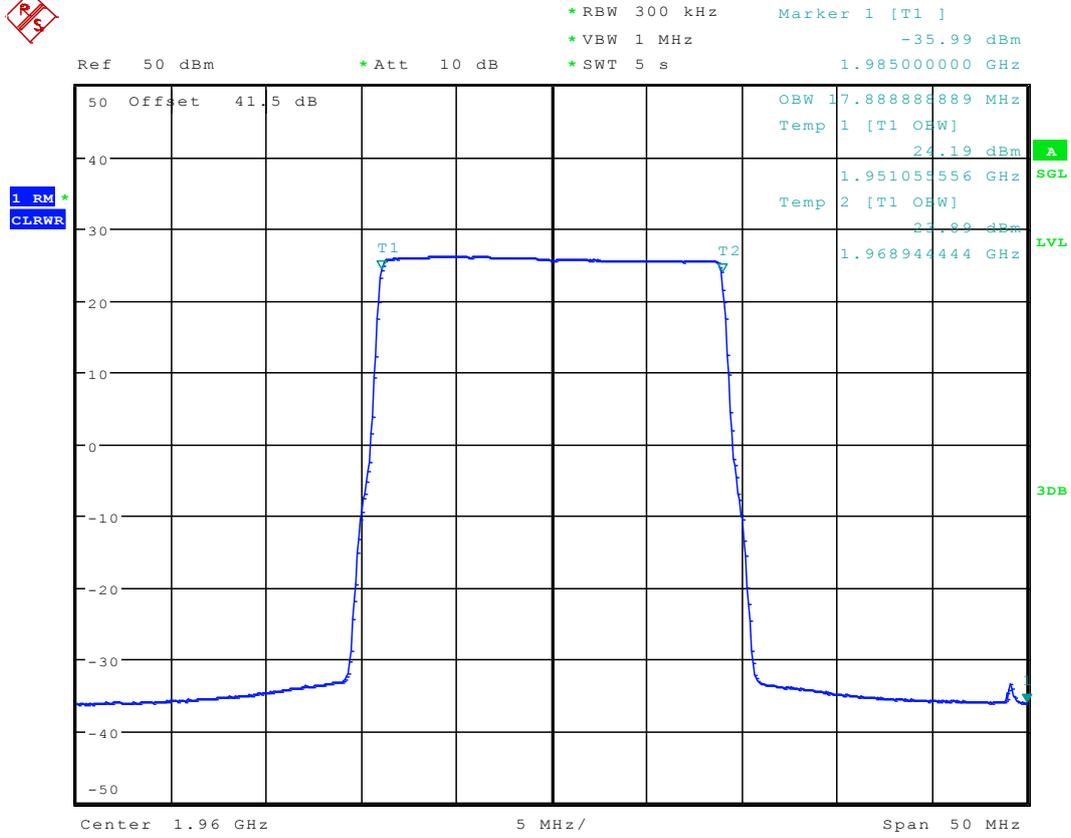


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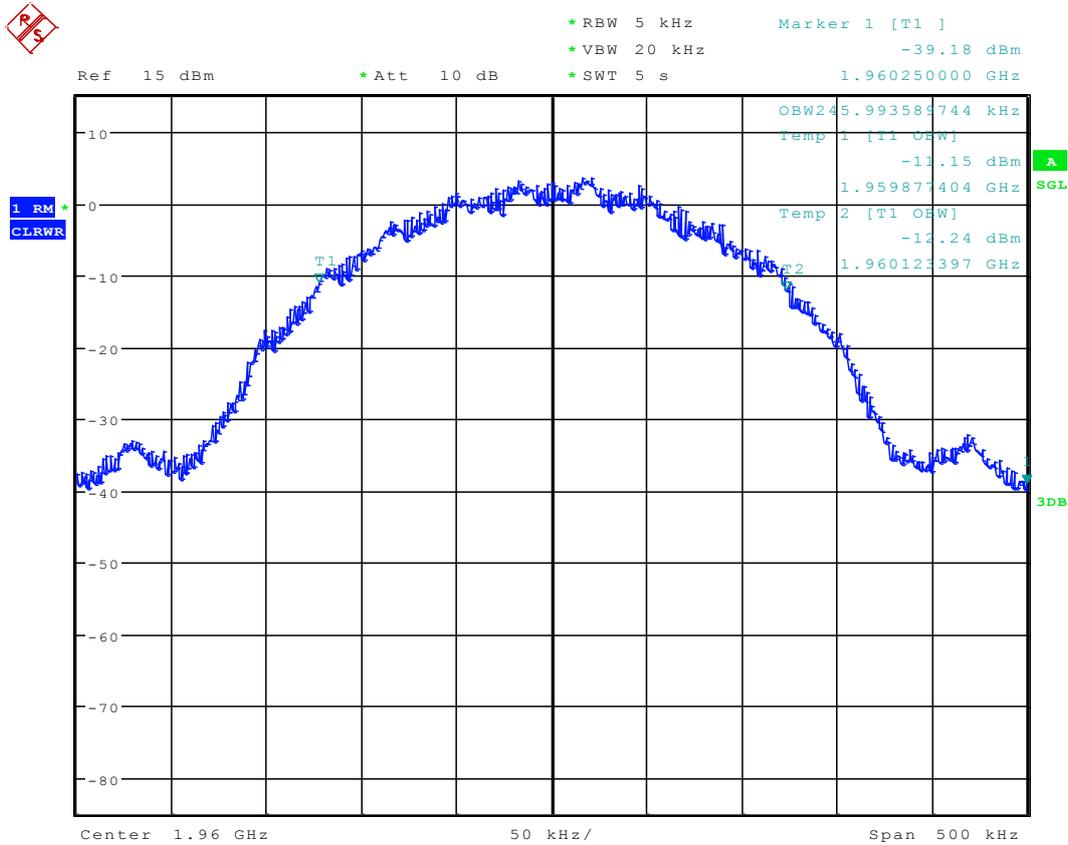
2.1.3.3.4 DL_1L_20M_M_ANTB



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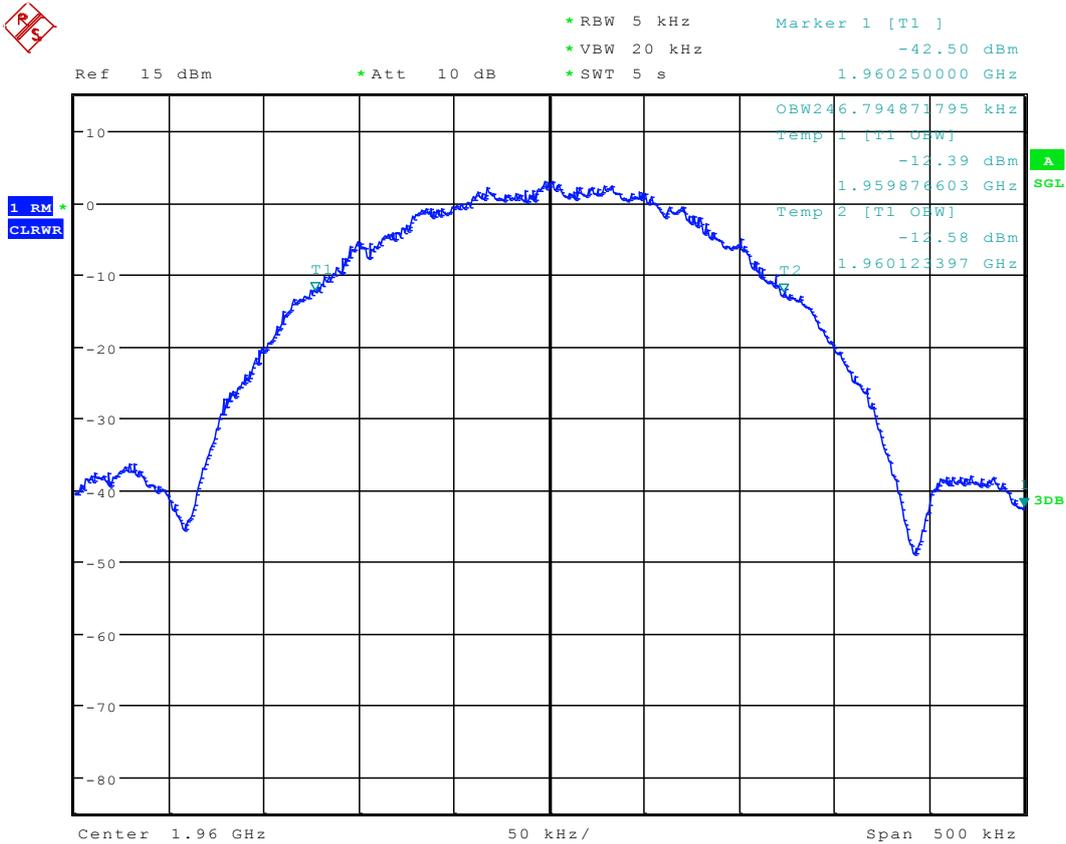
2.1.4 Downlink input signal Plots

2.1.4.1 DL_1G_TM1_M



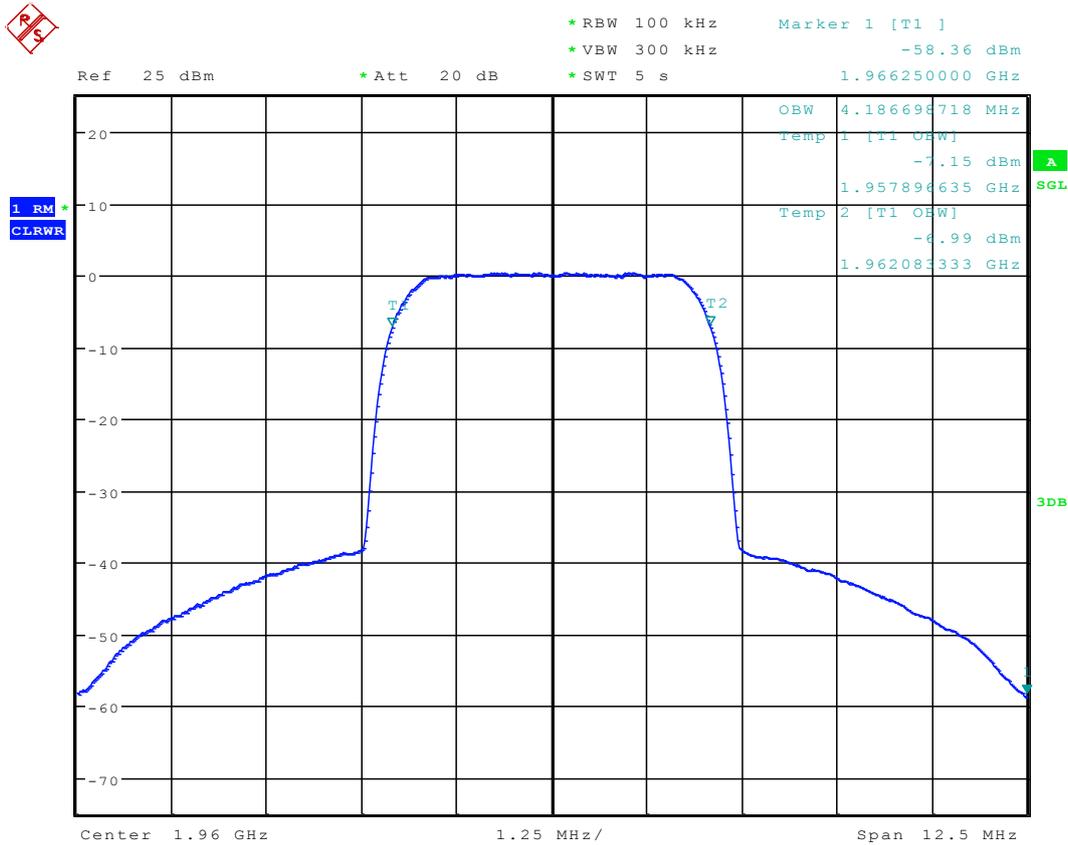
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2.1.4.2 DL_1G_TM2_M



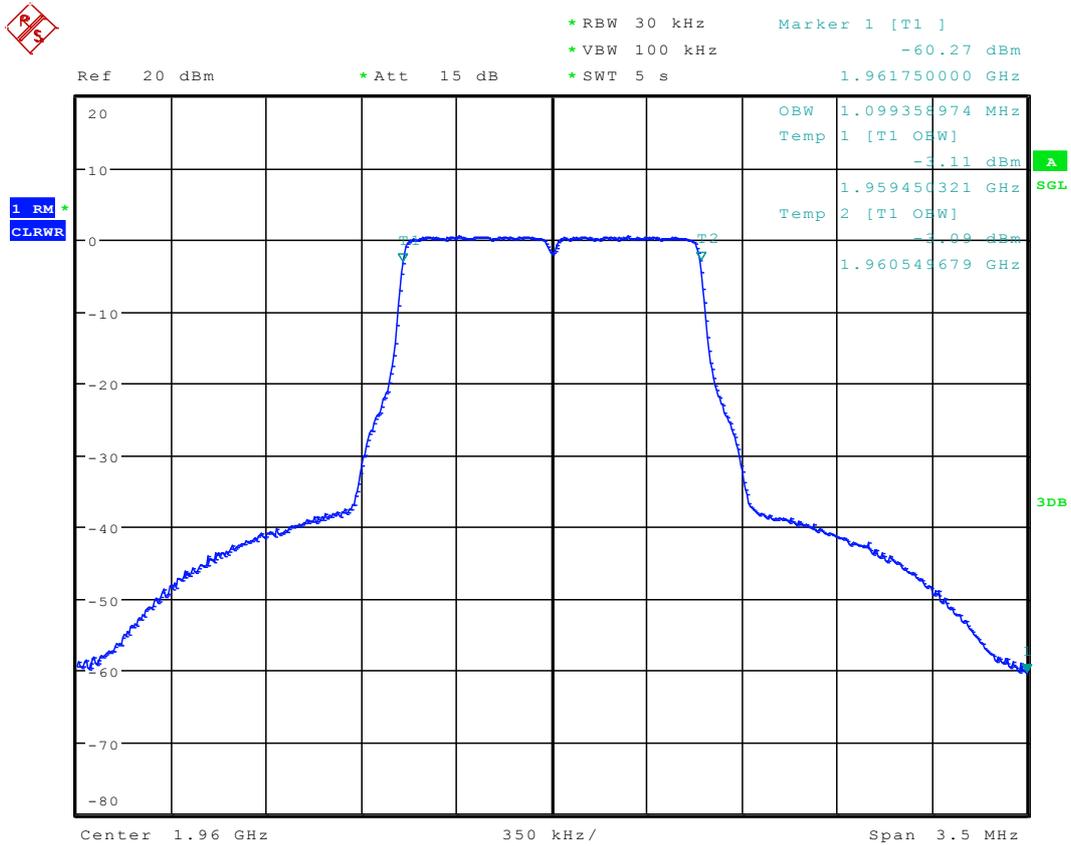
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2.1.4.3 DL_1U_TM1_M



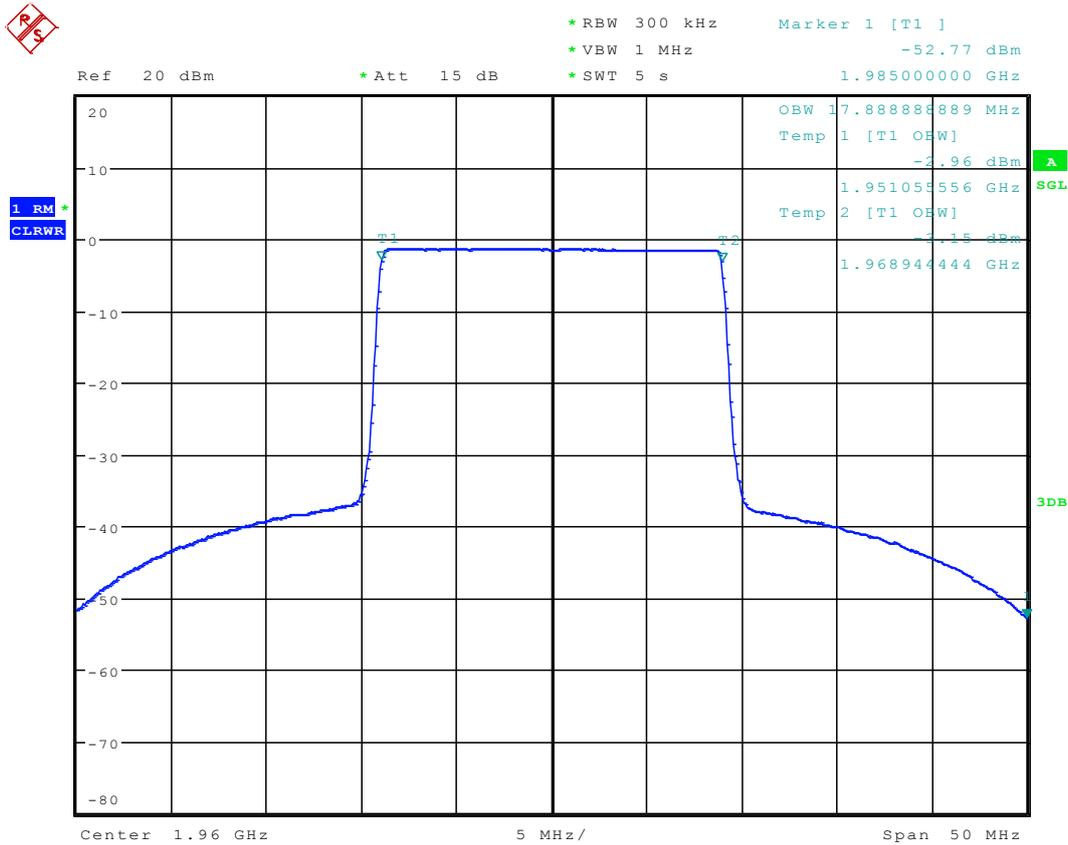
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2.1.4.4 DL_1L_1.4M_M



Date: 7.DEC.2013 16:35:29

2.1.4.5 DL_1L_20M_M



Date: 7.DEC.2013 16:38:05

2.2 20dB Bandwidth

2.2.1 Uplink Test Plots

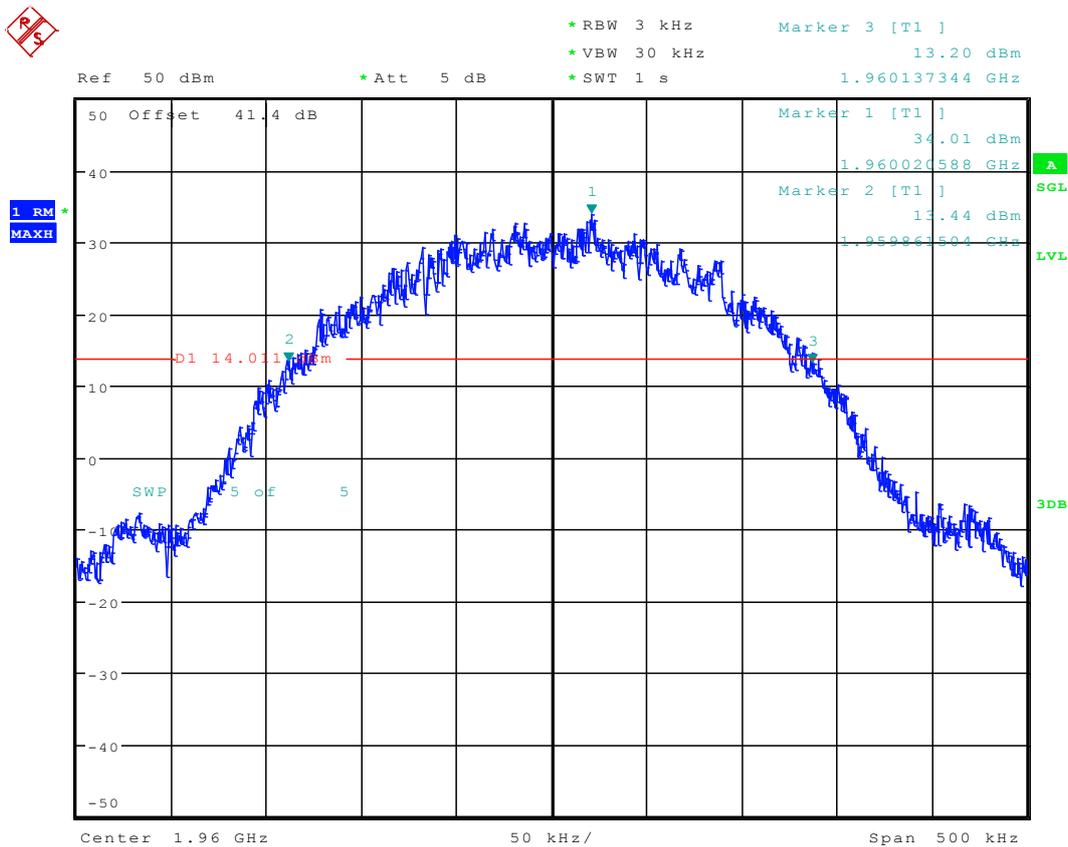
Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

2.2.2 Downlink Test Plots

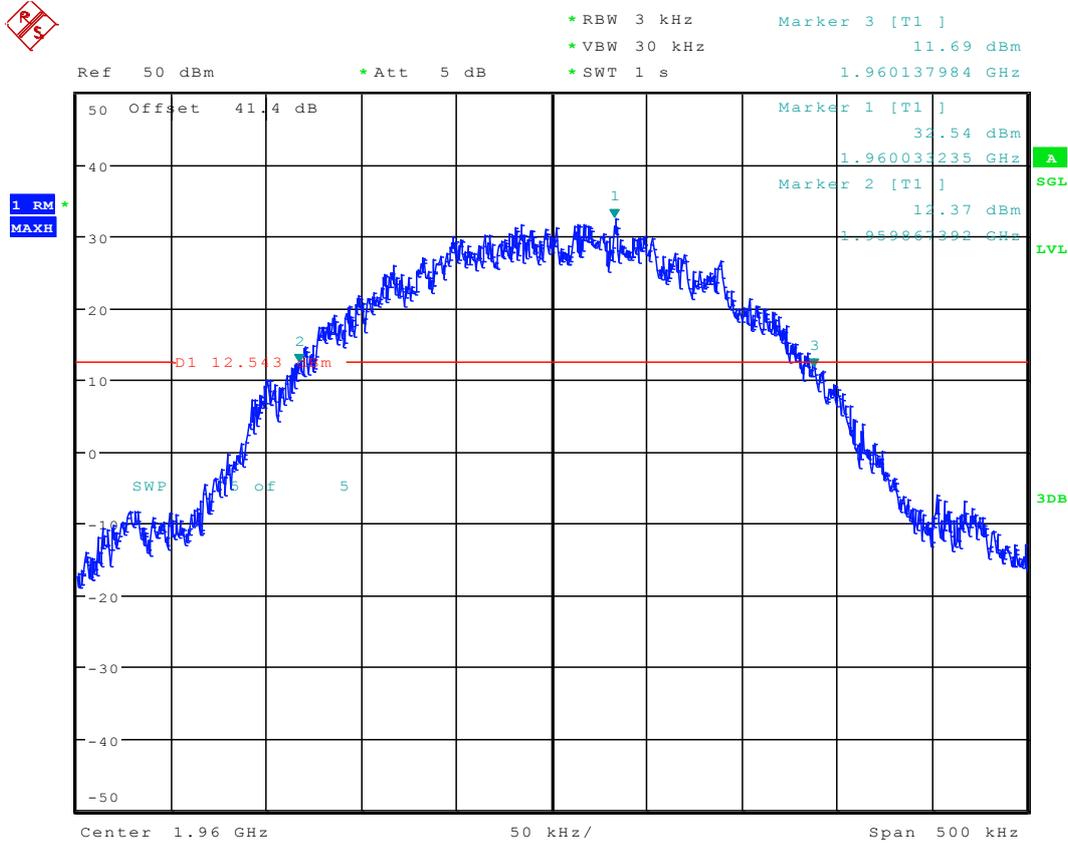
2.2.2.1 GSM system

2.2.2.1.1 DL_1G_TM1_M_ANTA



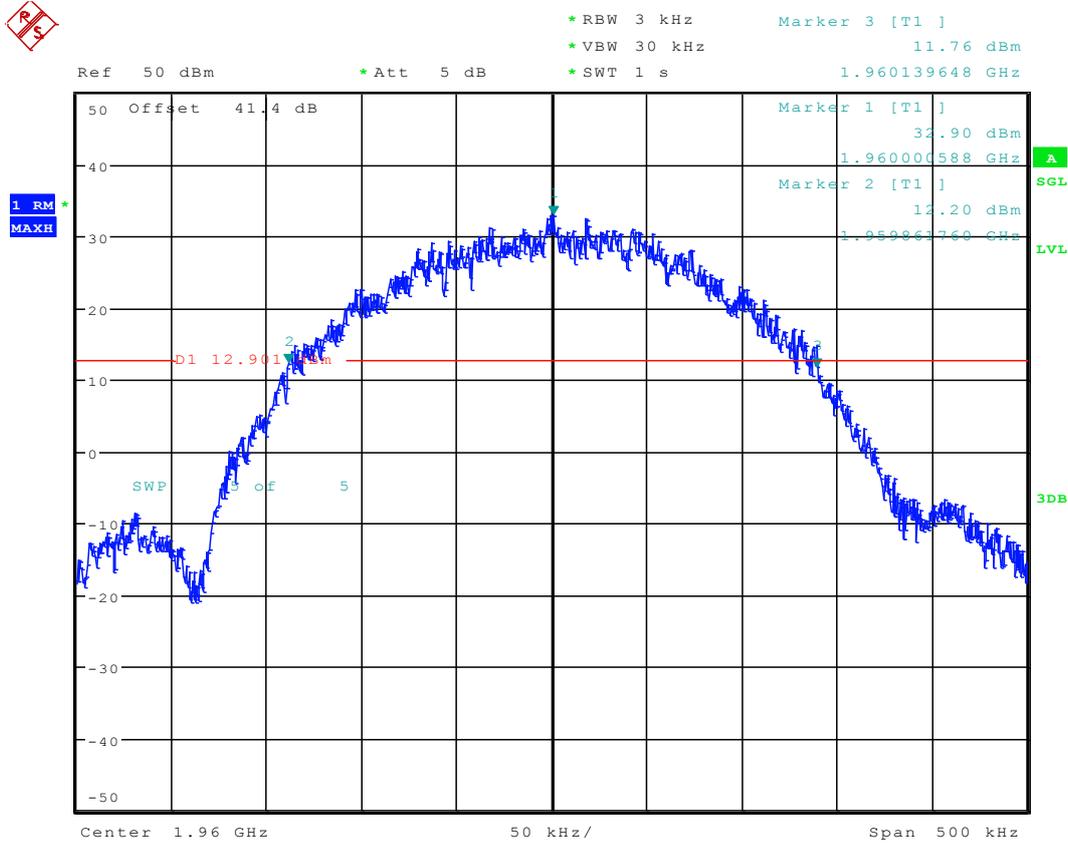
Date: 13.NOV.2013 14:40:41

2.2.2.1.2 DL_1G_TM1_M_ANTB



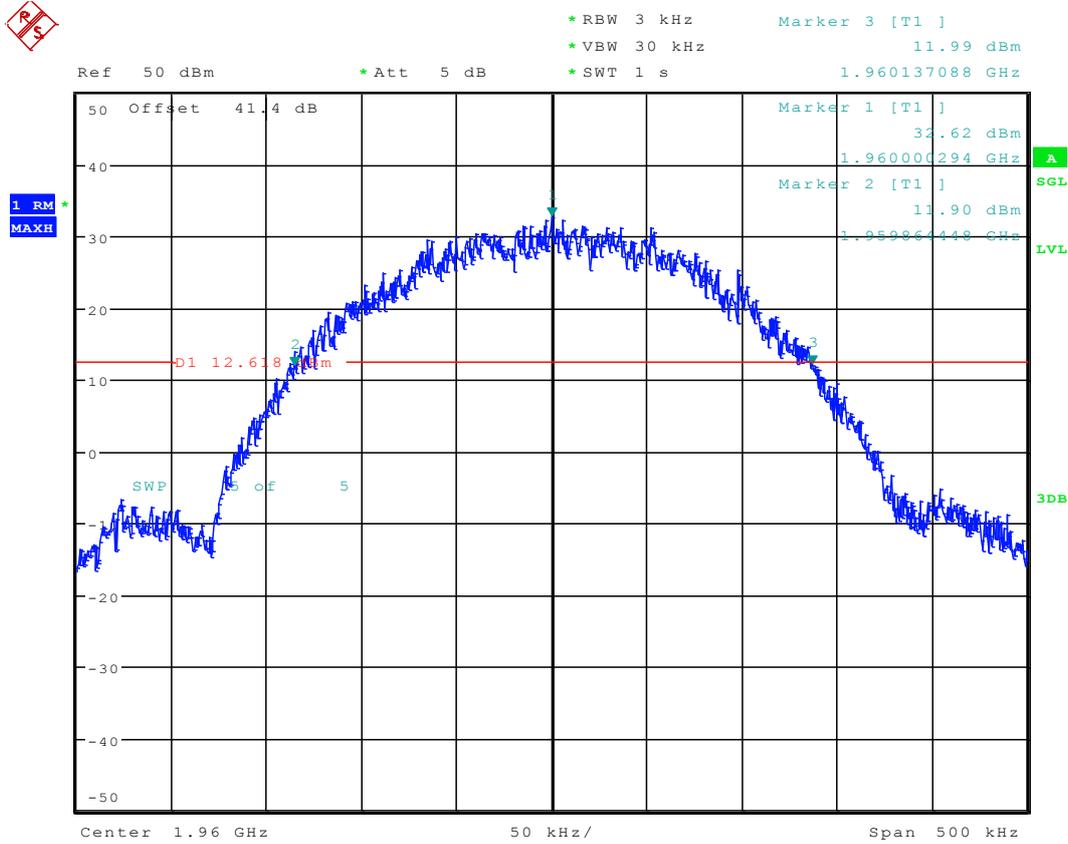
Date: 13.NOV.2013 15:09:45

2.2.2.1.3 DL_1G_TM2_M_ANTA



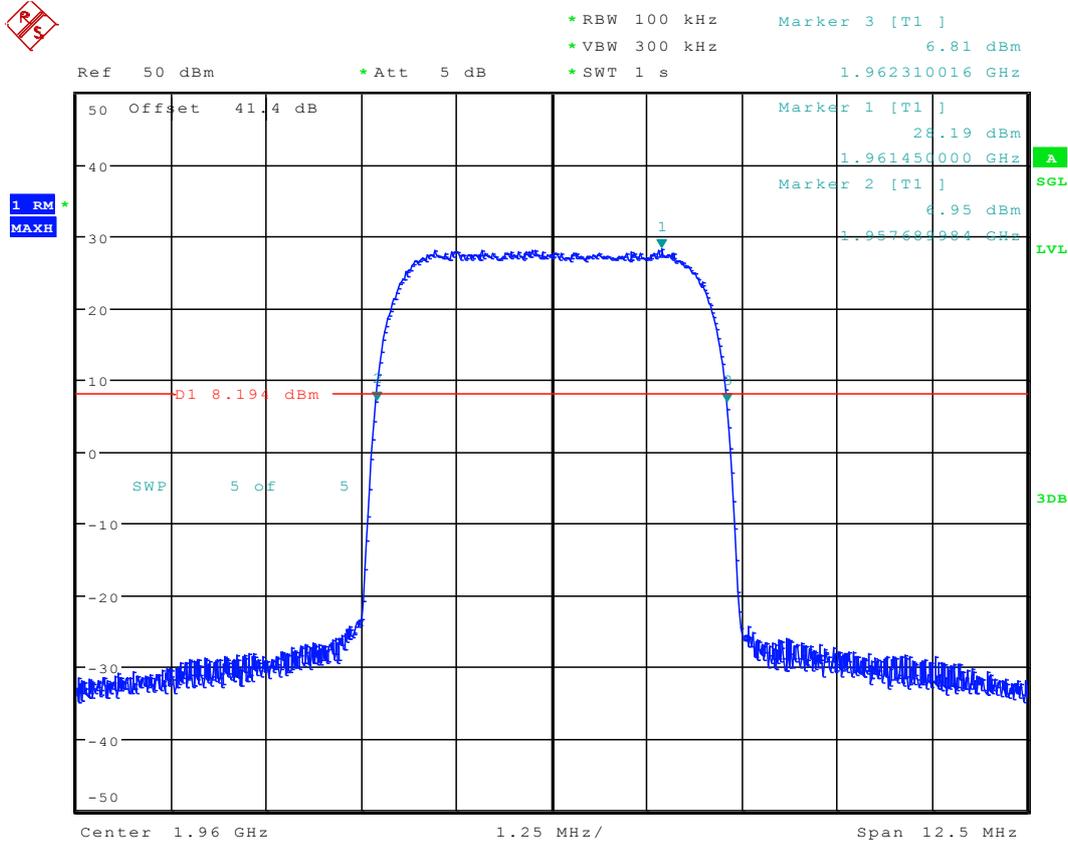
Date: 13.NOV.2013 14:49:19

2.2.2.1.4 DL_1G_TM2_M_ANTB



Date: 13.NOV.2013 15:02:28

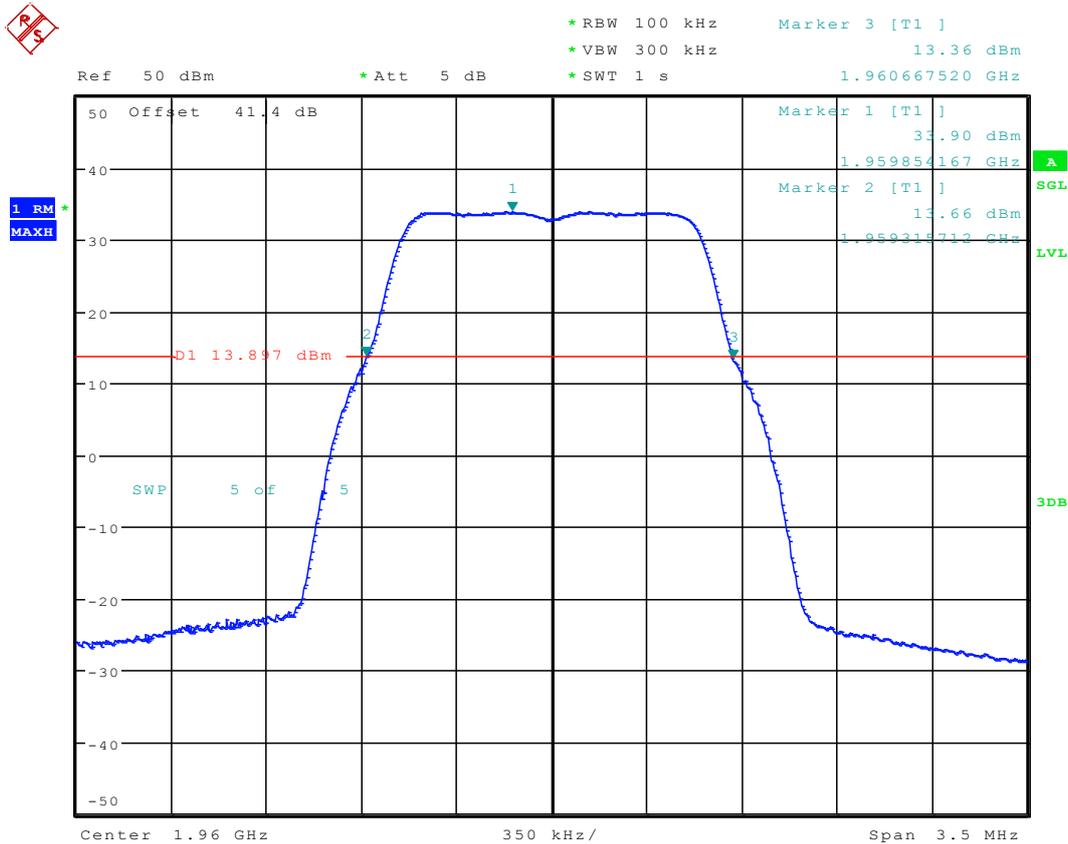
2.2.2.2.2 DL_1U_TM1_M_ANTB



Date: 12.NOV.2013 15:59:44

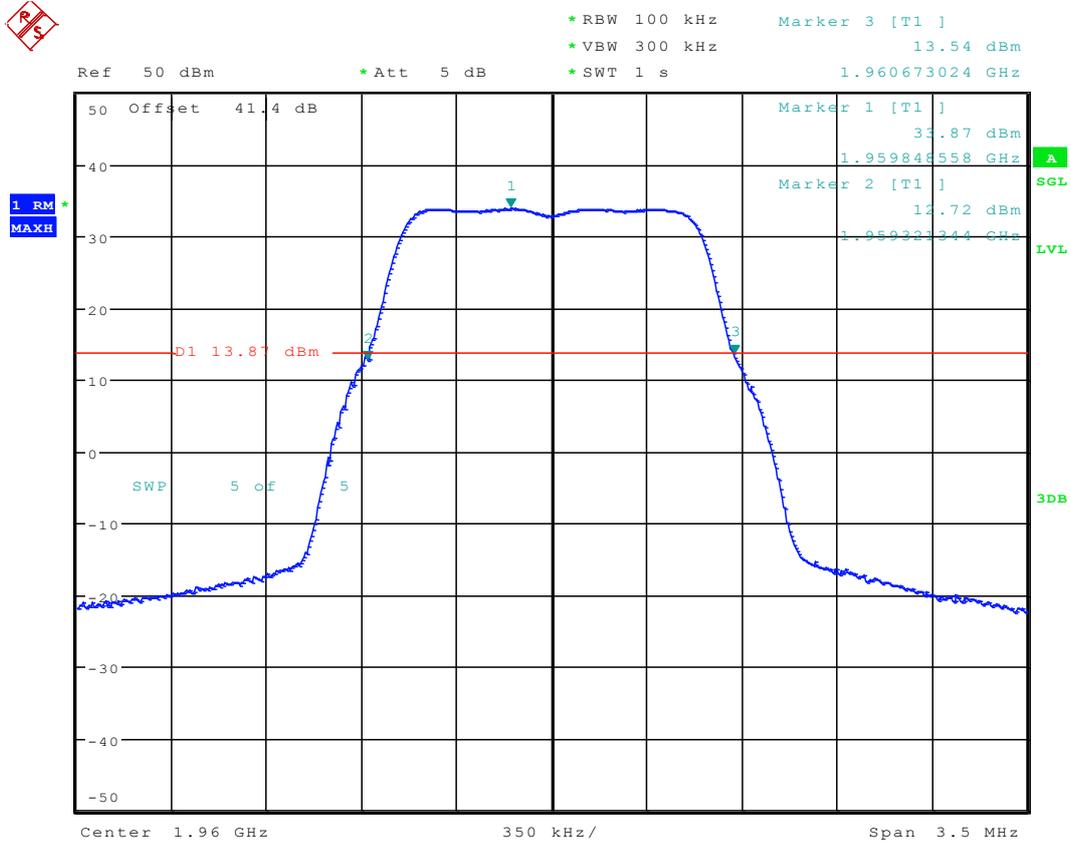
2.2.2.3 LTE system

2.2.2.3.1 DL_1L_1.4M_M_ANTA



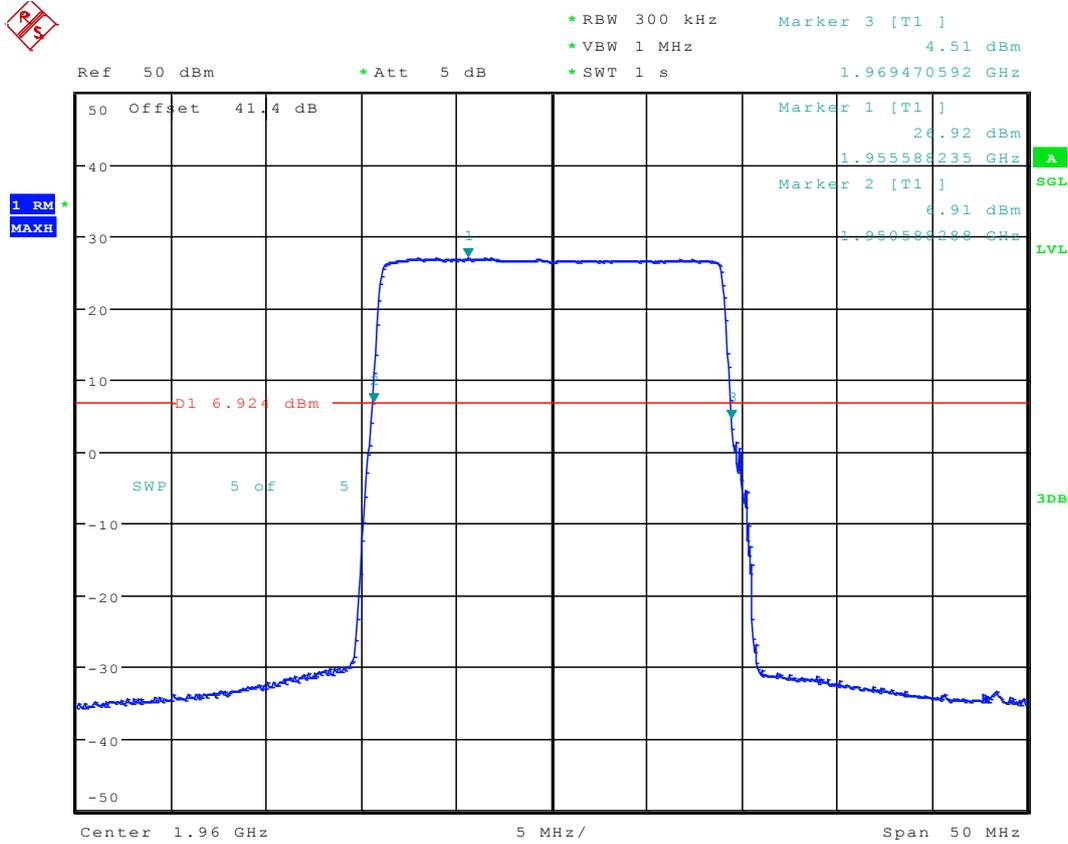
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2.2.2.3.2 DL_1L_1.4M_M_ANTB



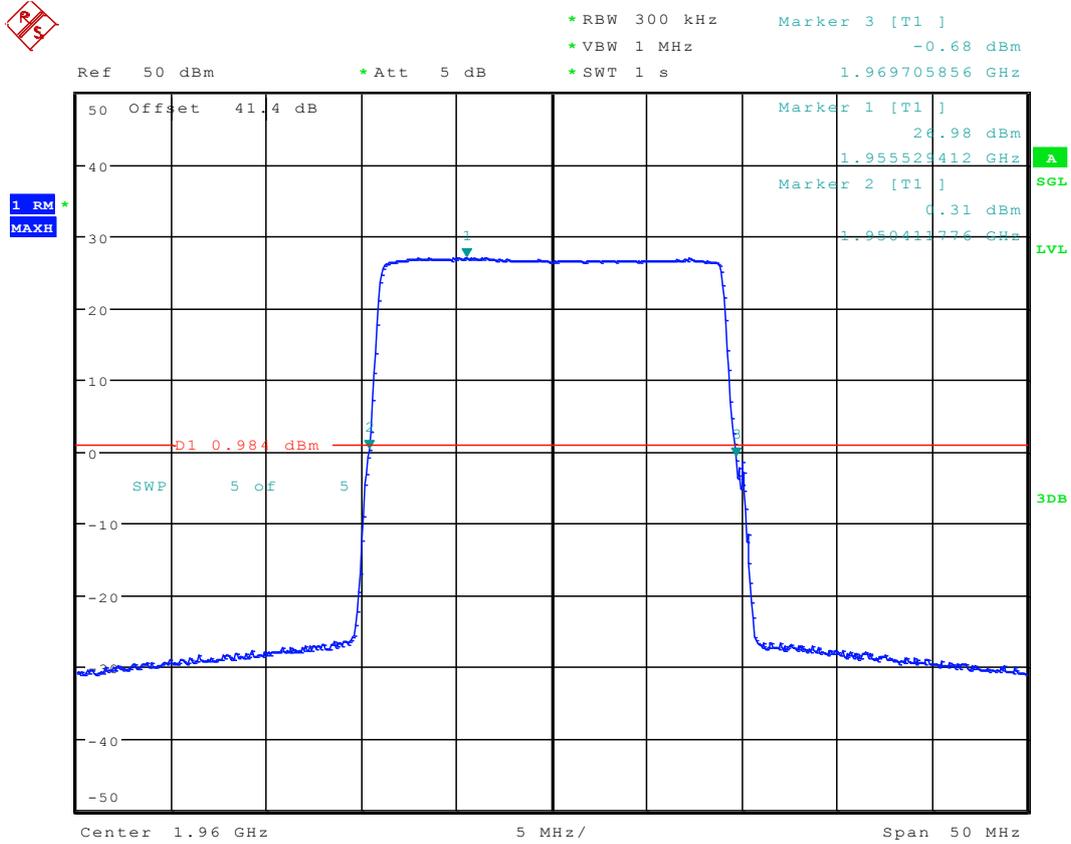
Date: 12.NOV.2013 14:58:49

2.2.2.3.3 DL_1L_20M_M_ANTA



Date: 13.NOV.2013 20:55:54

2.2.2.3.4 DL_1L_20M_M_ANTB



Date: 13.NOV.2013 20:49:16

2.3 26dB Bandwidth

2.3.1 Uplink Test Plots

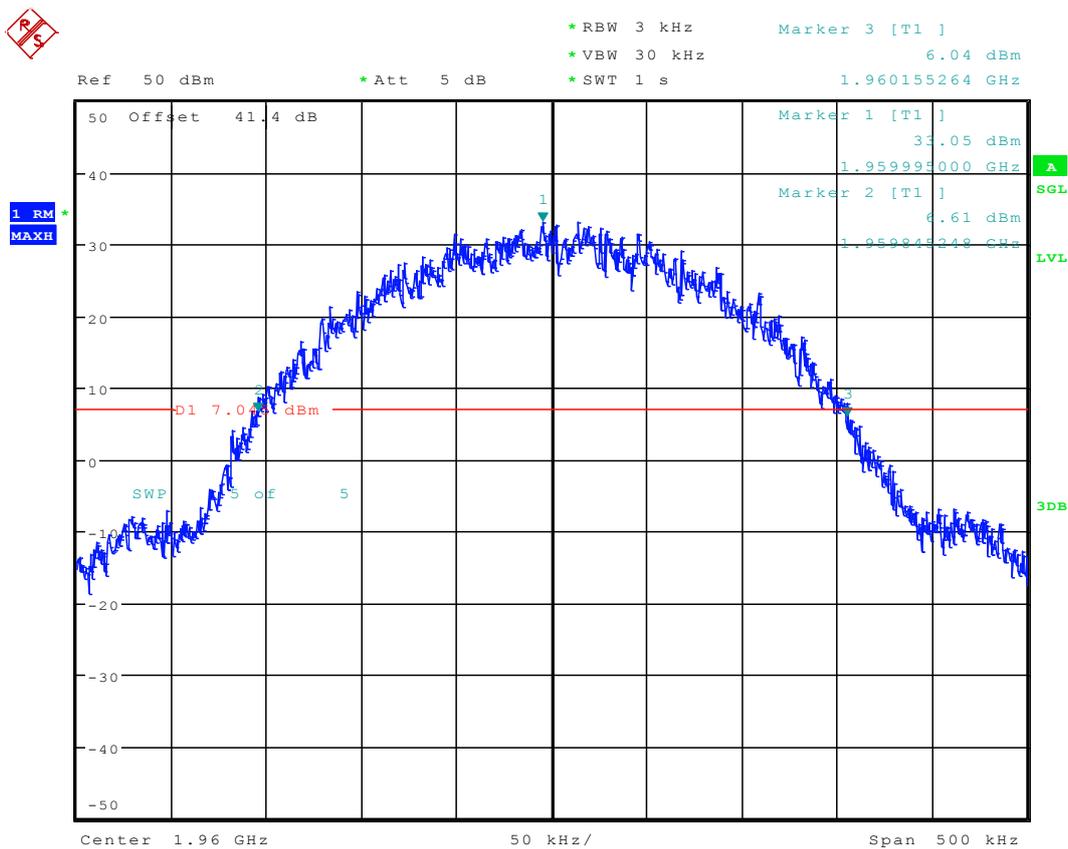
Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

2.3.2 Downlink Test Plots

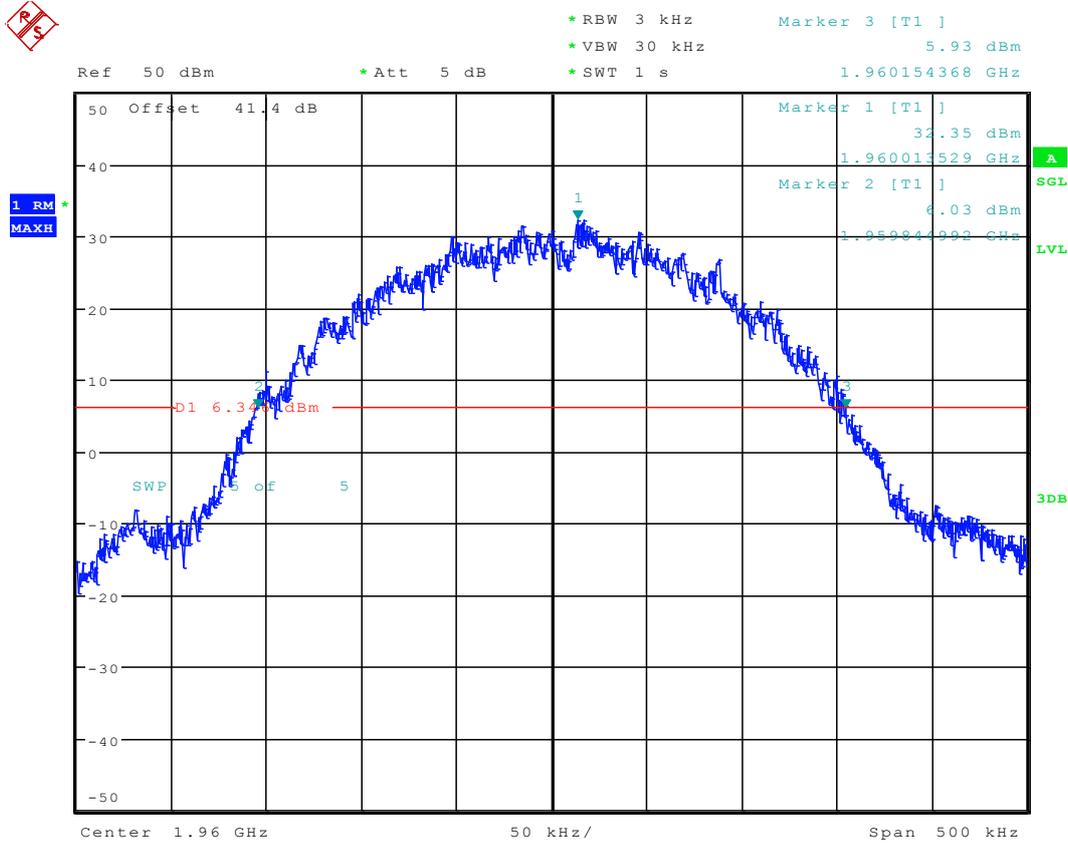
2.3.2.1 GSM system

2.3.2.1.1 DL_1G_TM1_M_ANT



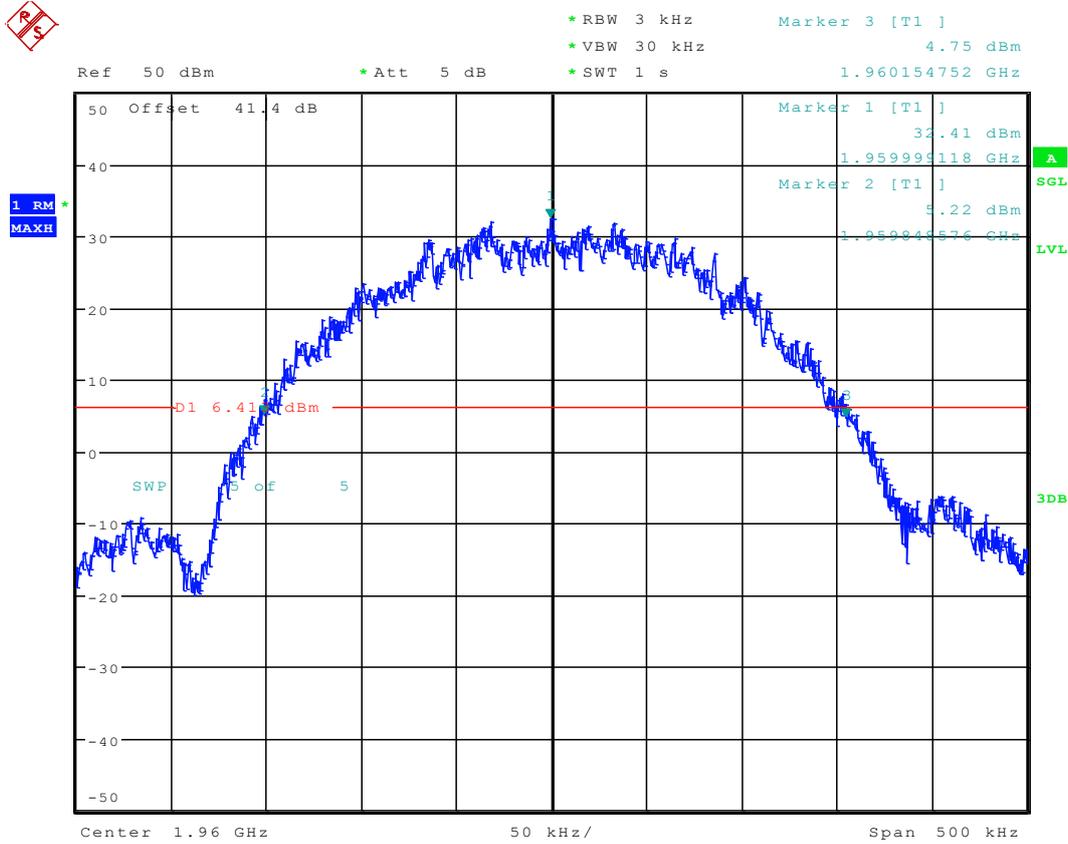
Date: 13.NOV.2013 14:40:53

2.3.2.1.2 DL_1G_TM1_M_ANTB



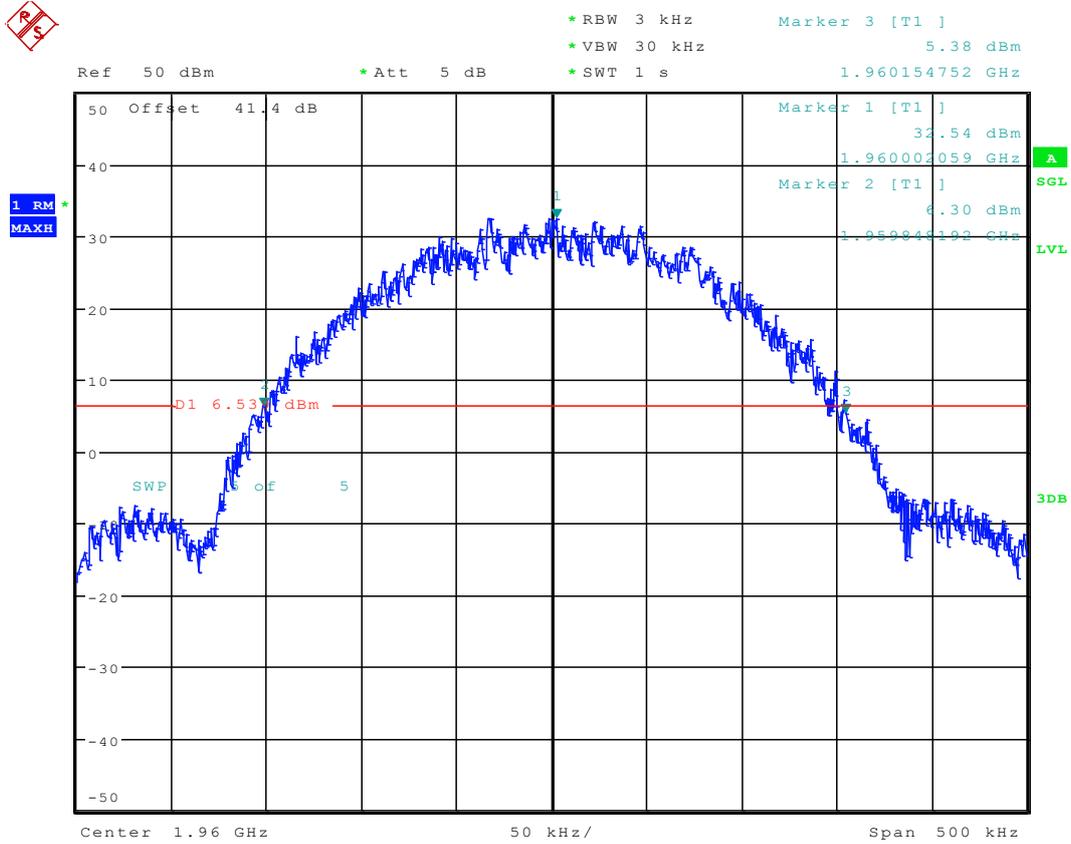
Date: 13.NOV.2013 15:09:55

2.3.2.1.3 DL_1G_TM2_M_ANTA



Date: 13.NOV.2013 14:49:31

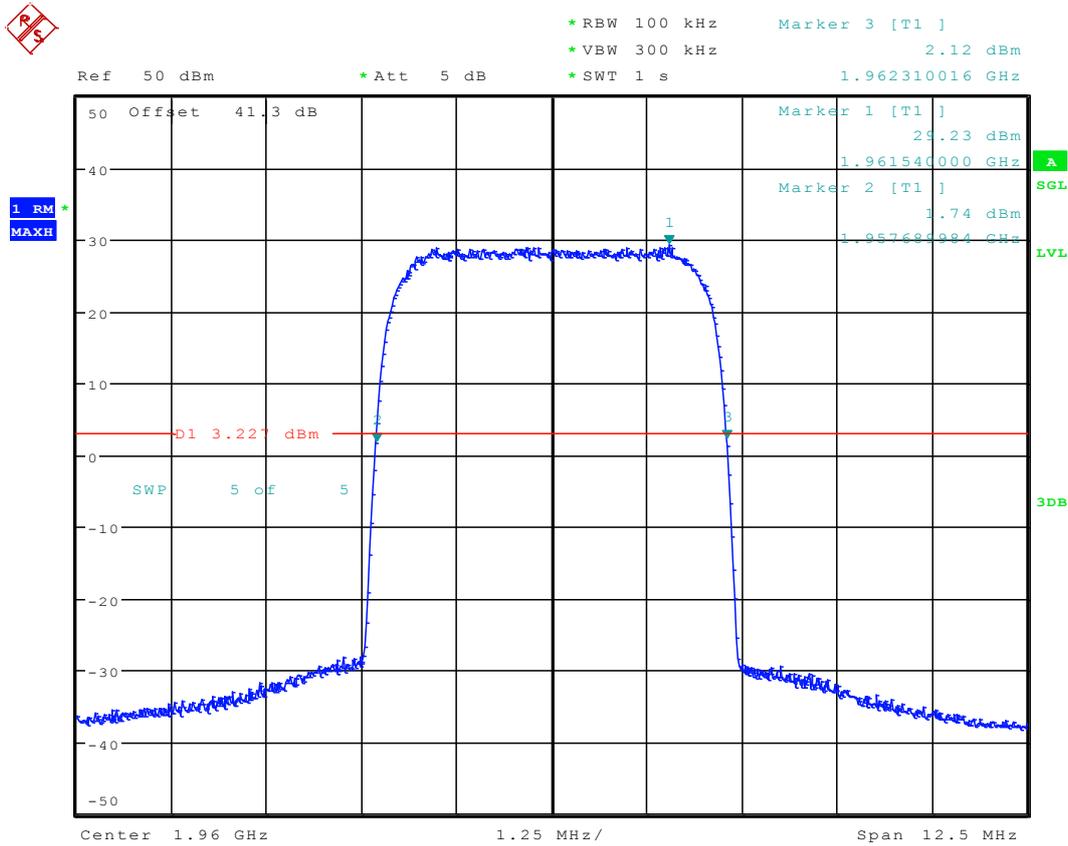
2.3.2.1.4 DL_1G_TM2_M_ANTB



Date: 13.NOV.2013 15:02:40

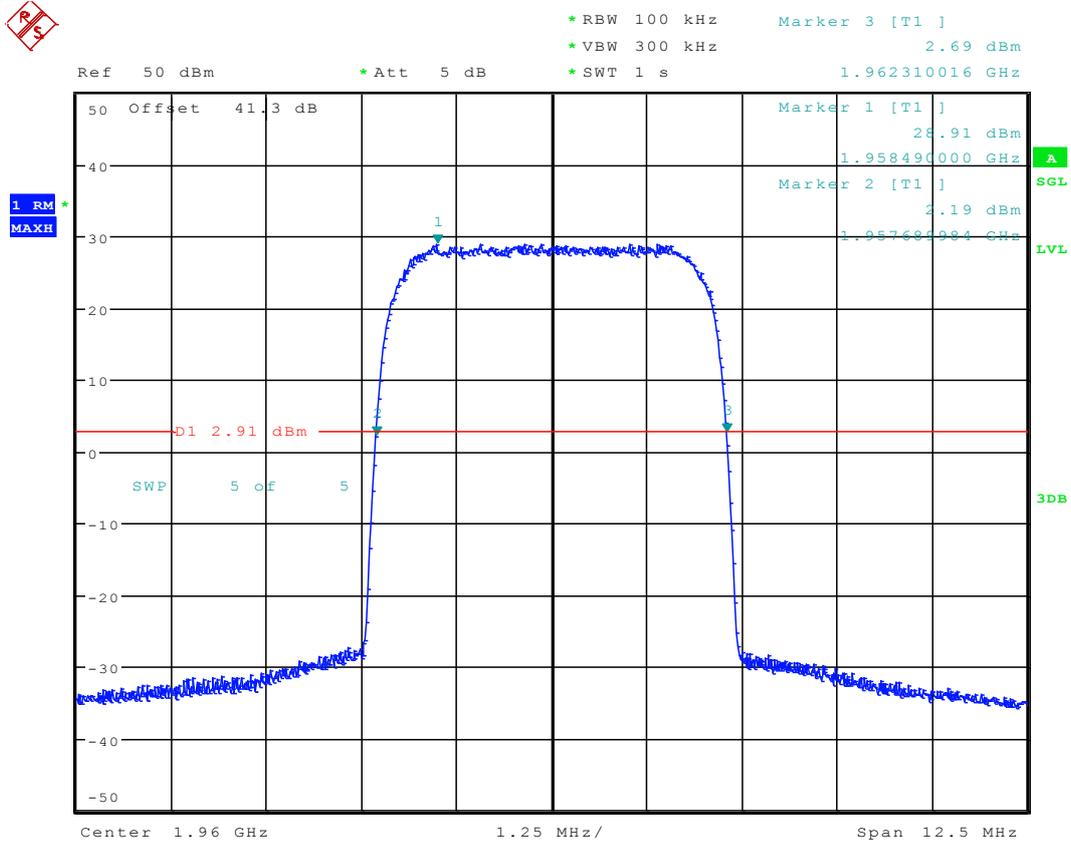
2.3.2.2 UMTS system

2.3.2.2.1 DL_1U_TM1_M_ANTA



Date: 24.SEP.2013 16:07:43

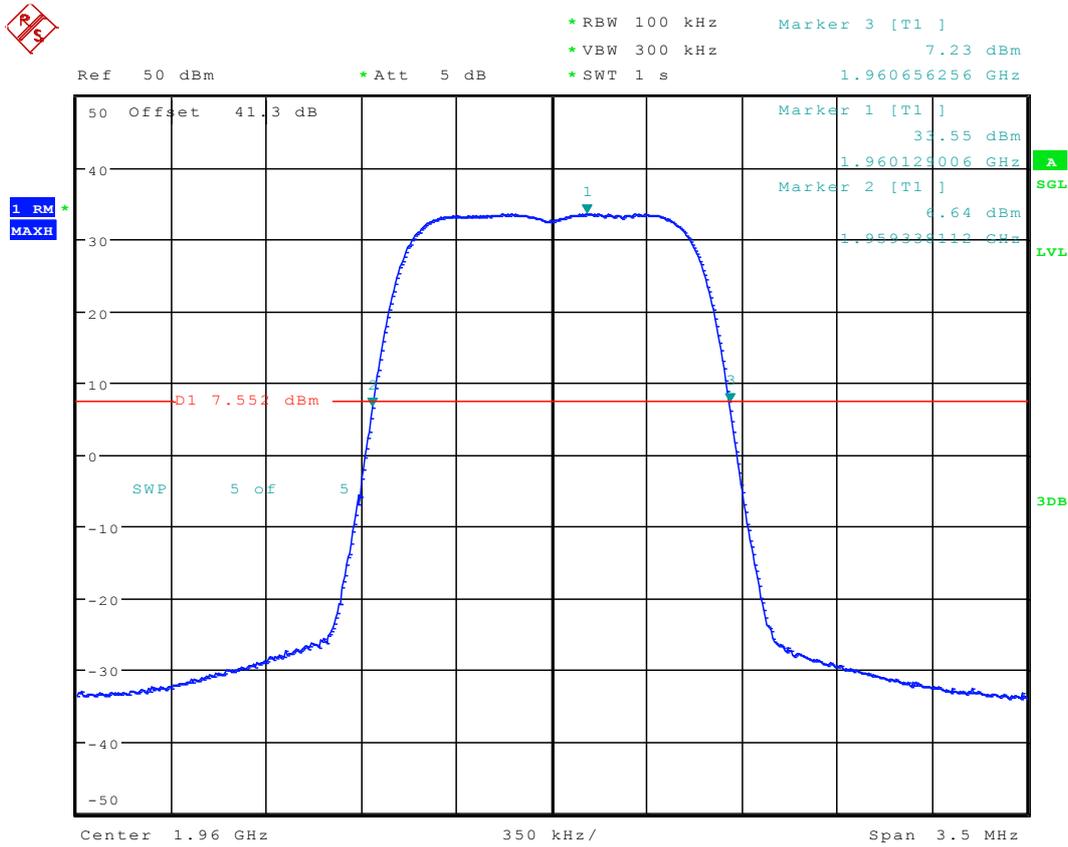
2.3.2.2.2 DL_1U_TM1_M_ANTB



Date: 24.SEP.2013 16:26:03

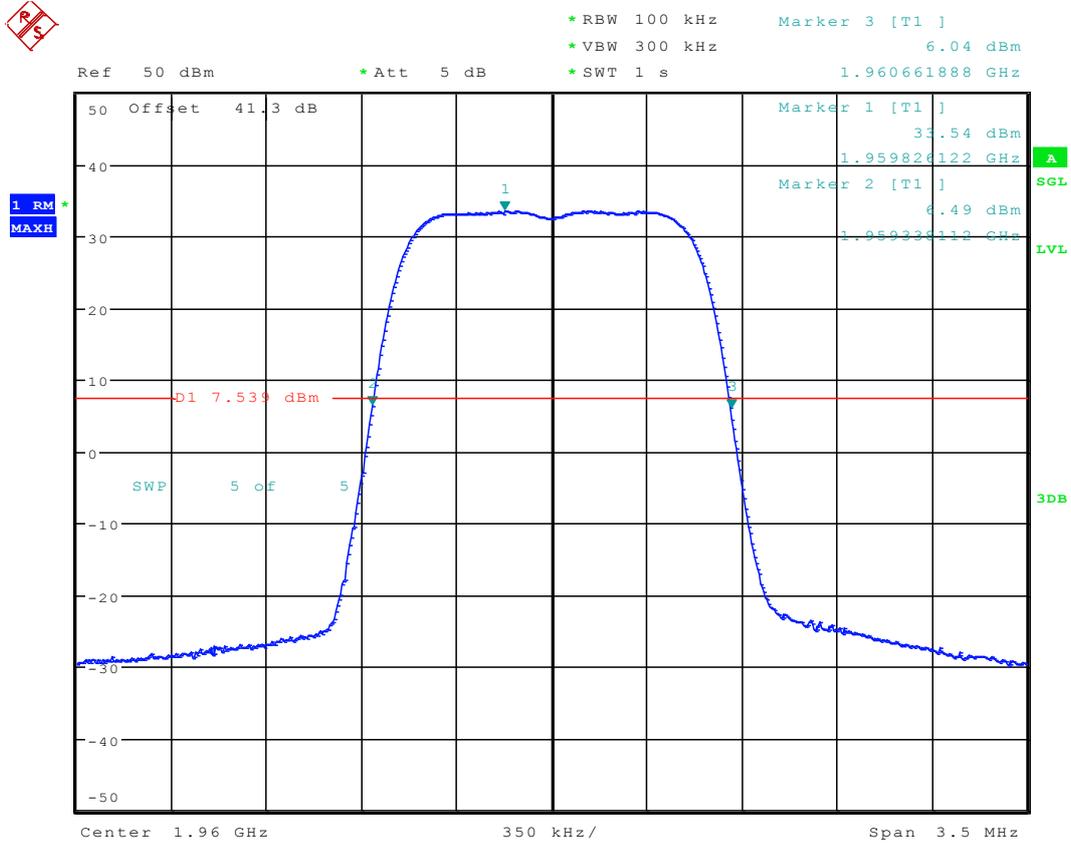
2.3.2.3 LTE system

2.3.2.3.1 DL_1L_1.4M_M_ANTA



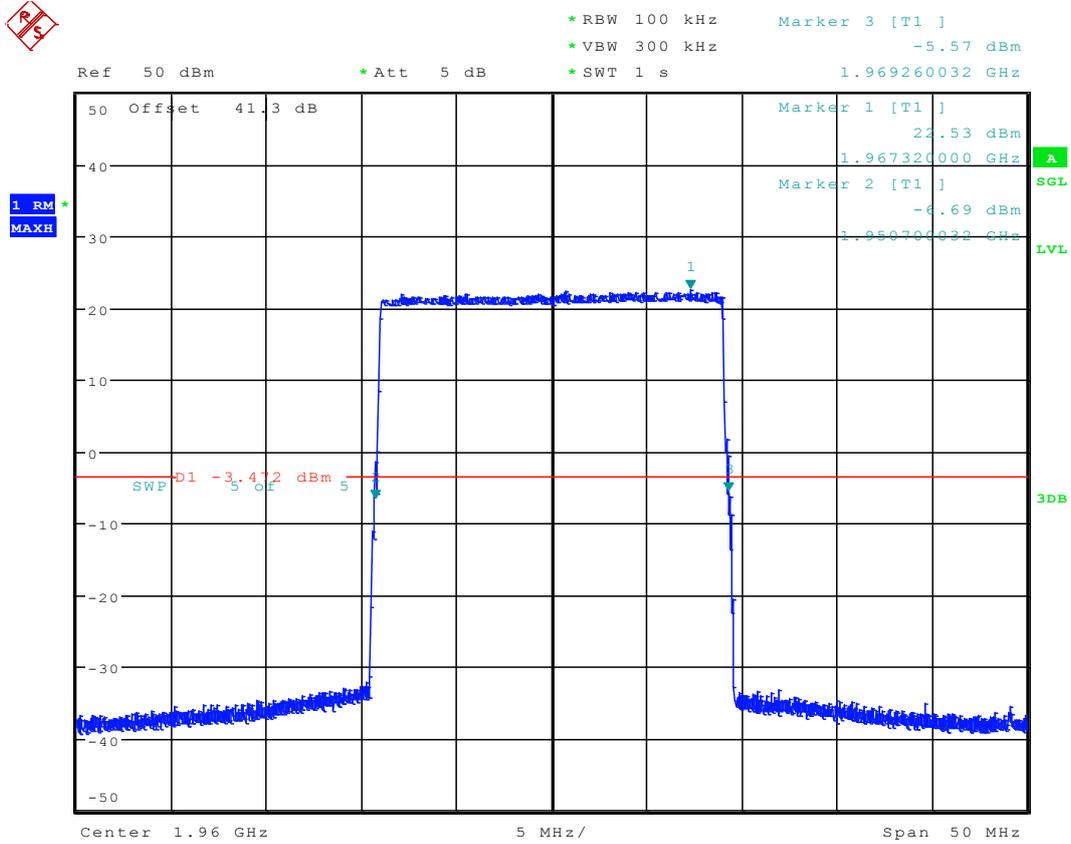
Date: 25.SEP.2013 10:37:53

2.3.2.3.2 DL_1L_1.4M_M_ANTB



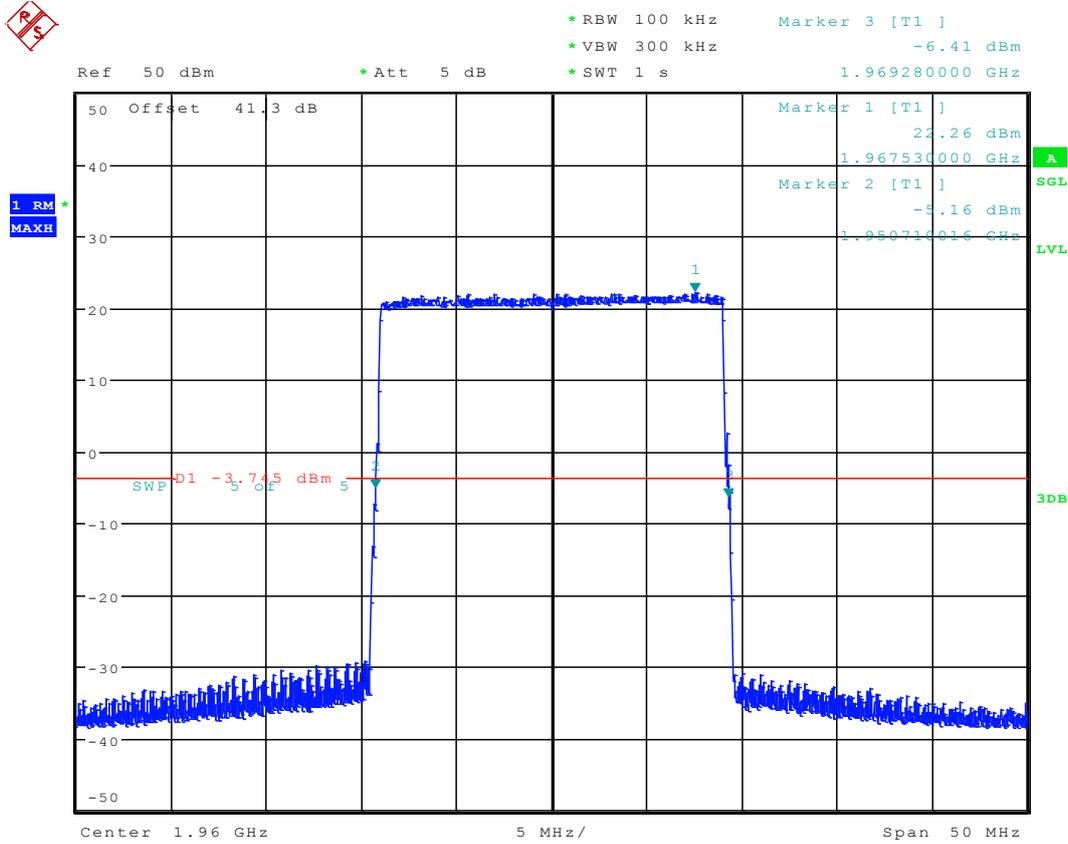
Date: 24.SEP.2013 17:00:04

2.3.2.3.3 DL_1L_20M_M_ANTA



Date: 25.SEP.2013 12:22:22

2.3.2.3.4 DL_1L_20M_M_ANTB



Date: 25.SEP.2013 12:31:05



Appendix C: Band Edges Compliance

1 Result Table

NOTE 1: The offset of measurement filter -3dB point may be considered when identifying the maximum emission for e.g. the CDMA, WCDMA, WiMAX, LTE systems.

NOTE 2: Since the EUT transmits on two antennas simultaneously in the same frequency with MIMO mode, using the measure and minus $10\log(N)$ technique, so the limits for spurious emissions at antenna terminal should be adjusted with a correction of $10\log 2$.

1.1 Uplink Test Results

Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

1.2 Downlink Test Results (without AGC activated)

1.2.1 GSM system

EUT Conf.	Maximum Emission [dBm]	Limit(dBm)	Verdict
DL_1G_TM1_B_ANTA	-23.81	-16	Pass
DL_1G_TM1_B_ANTB	-23.78	-16	Pass
DL_1G_TM1_T_ANTA	-23.74	-16	Pass
DL_1G_TM1_T_ANTB	-23.69	-16	Pass
DL_2G_TM1_B_ANTA	-28.63	-16	Pass
DL_2G_TM1_B_ANTB	-27.29	-16	Pass
DL_2G_TM1_T_ANTA	-29.06	-16	Pass
DL_2G_TM1_T_ANTB	-26.92	-16	Pass

1.2.2 UMTS system

EUT Conf.	Maximum Emission [dBm]	Limit(dBm)	Verdict
DL_1U_TM1_B_ANTA	-23.80	-16	Pass
DL_1U_TM1_B_ANTB	-22.94	-16	Pass
DL_1U_TM1_T_ANTA	-23.22	-16	Pass
DL_1U_TM1_T_ANTB	-21.14	-16	Pass
DL_2U_TM1_B_ANTA	-25.29	-16	Pass
DL_2U_TM1_B_ANTB	-24.26	-16	Pass
DL_2U_TM1_T_ANTA	-25.02	-16	Pass
DL_2U_TM1_T_ANTB	-23.86	-16	Pass

1.2.3 LTE system

EUT Conf.	Maximum Emission [dBm]	Limit(dBm)	Verdict
DL_1L_1.4M_B_ANTA	-27.49	-16	Pass
DL_1L_1.4M_B_ANTB	-27.75	-16	Pass
DL_1L_1.4M_T_ANTA	-25.80	-16	Pass
DL_1L_1.4M_T_ANTB	-26.30	-16	Pass
DL_2L_1.4M_B_ANTA	-29.45	-16	Pass
DL_2L_1.4M_B_ANTB	-26.98	-16	Pass
DL_2L_1.4M_T_ANTA	-29.81	-16	Pass
DL_2L_1.4M_T_ANTB	-26.43	-16	Pass

1.3 Downlink Test Results (input signal +10dB with AGC activated)

1.3.1 GSM system

EUT Conf.	Maximum Emission [dBm]	Limit(dBm)	Verdict
DL_2G_TM1_B_ANTA	-35.74	-16	Pass
DL_2G_TM1_B_ANTB	-36.98	-16	Pass
DL_2G_TM1_T_ANTA	-37.63	-16	Pass
DL_2G_TM1_T_ANTB	-37.16	-16	Pass

1.3.2 UMTS system

EUT Conf.	Maximum Emission [dBm]	Limit(dBm)	Verdict
DL_2U_TM1_B_ANTA	-24.88	-16	Pass
DL_2U_TM1_B_ANTB	-24.87	-16	Pass
DL_2U_TM1_T_ANTA	-24.32	-16	Pass
DL_2U_TM1_T_ANTB	-24.21	-16	Pass

1.3.3 LTE system

EUT Conf.	Maximum Emission [dBm]	Limit(dBm)	Verdict
DL_2L_1.4M_B_ANTA	-28.53	-16	Pass
DL_2L_1.4M_B_ANTB	-28.44	-16	Pass
DL_2L_1.4M_T_ANTA	-28.21	-16	Pass
DL_2L_1.4M_T_ANTB	-28.07	-16	Pass

2 Test Plot

2.1 Uplink Test Plots

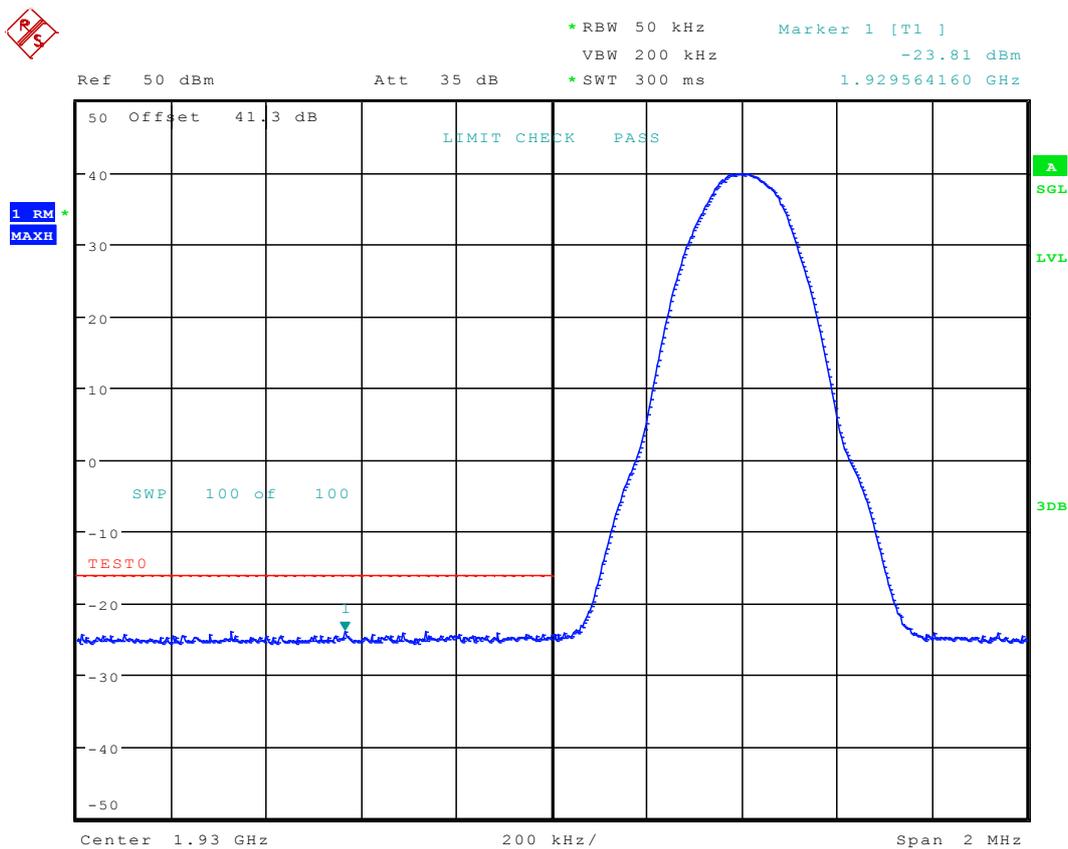
Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

2.2 Downlink Test Plots (without AGC activated)

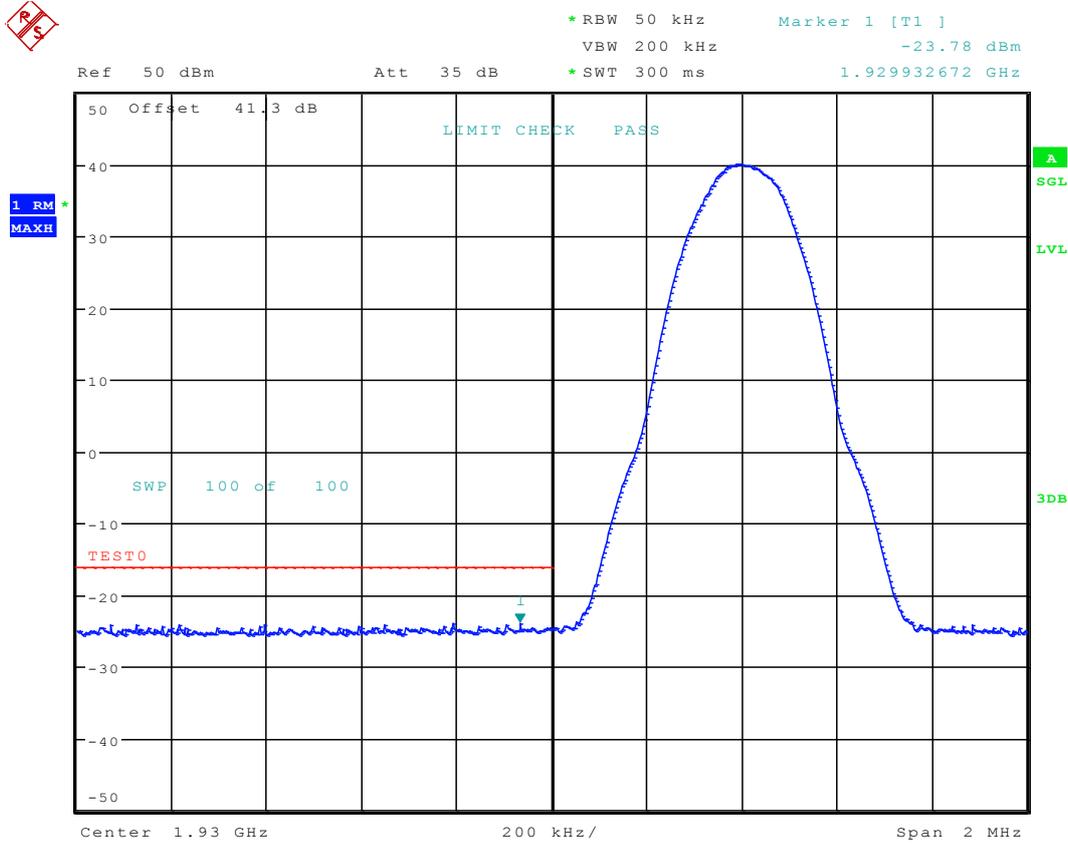
2.2.1 GSM system

2.2.1.1 DL_1G_TM1_B_ANTA



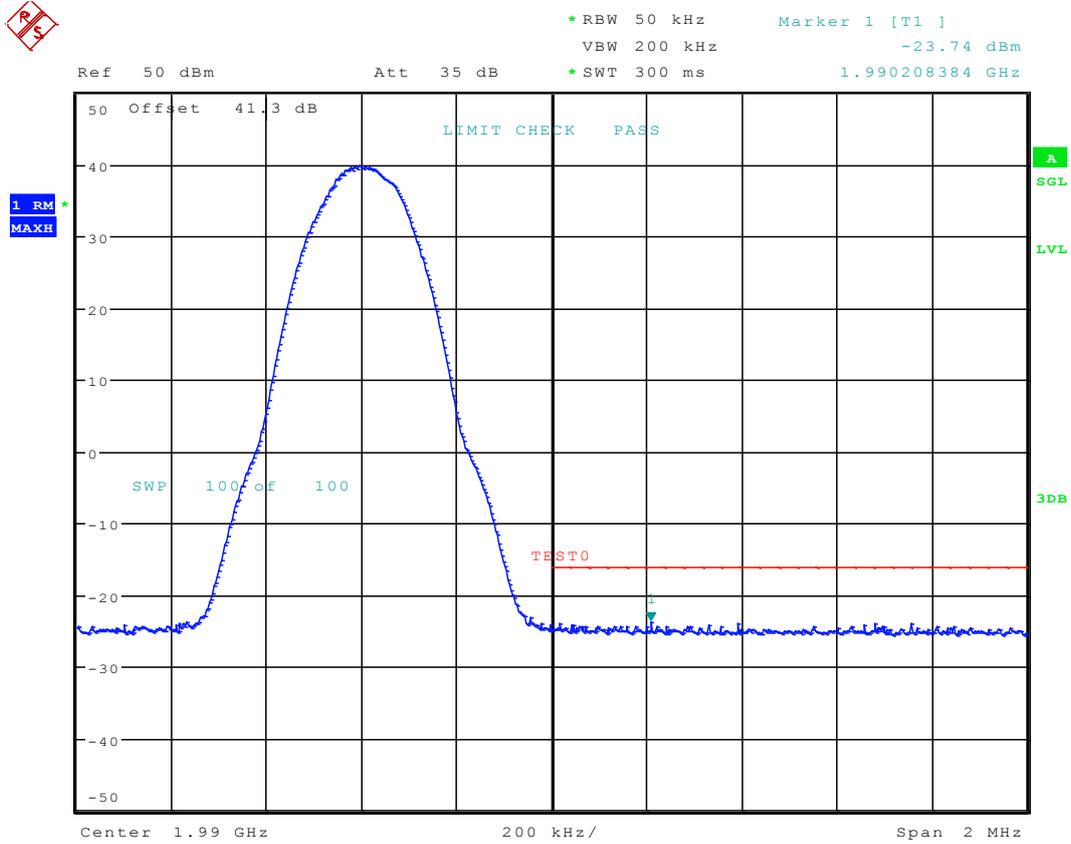
Date: 24.SEP.2013 12:27:21

2.2.1.2 DL_1G_TM1_B_ANTB



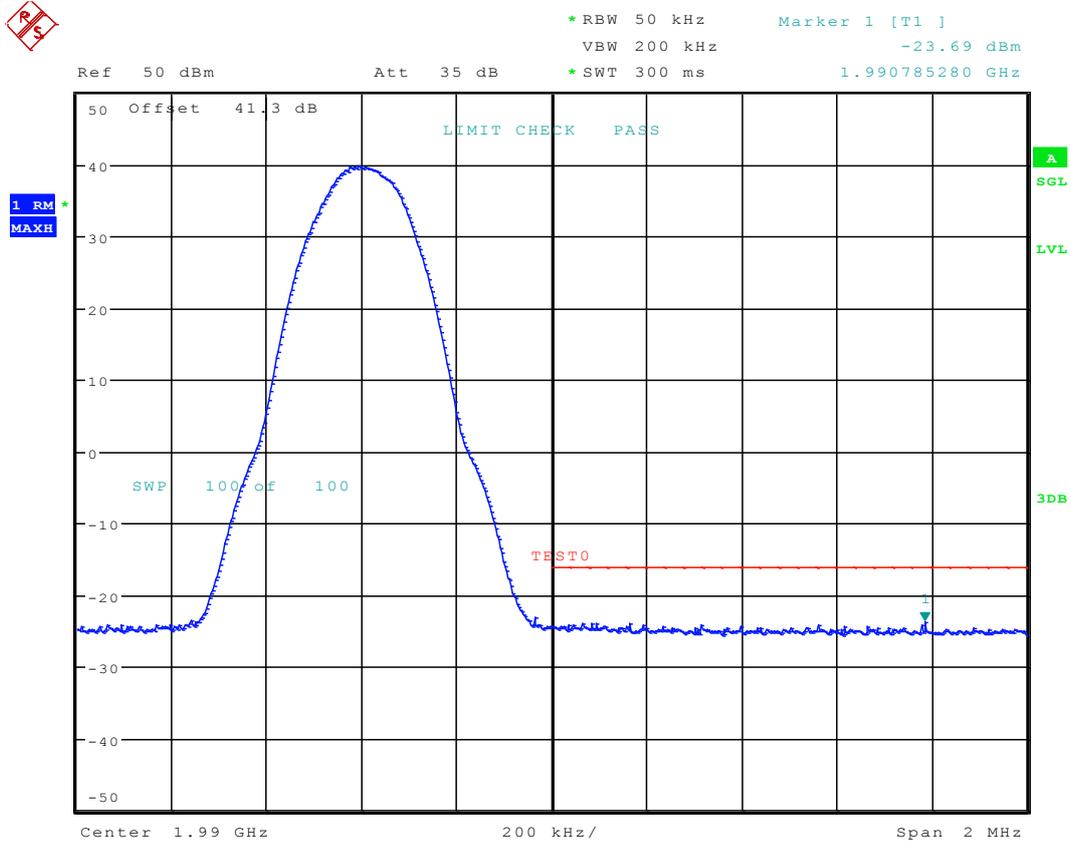
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2.2.1.3 DL_1G_TM1_T_ANTA



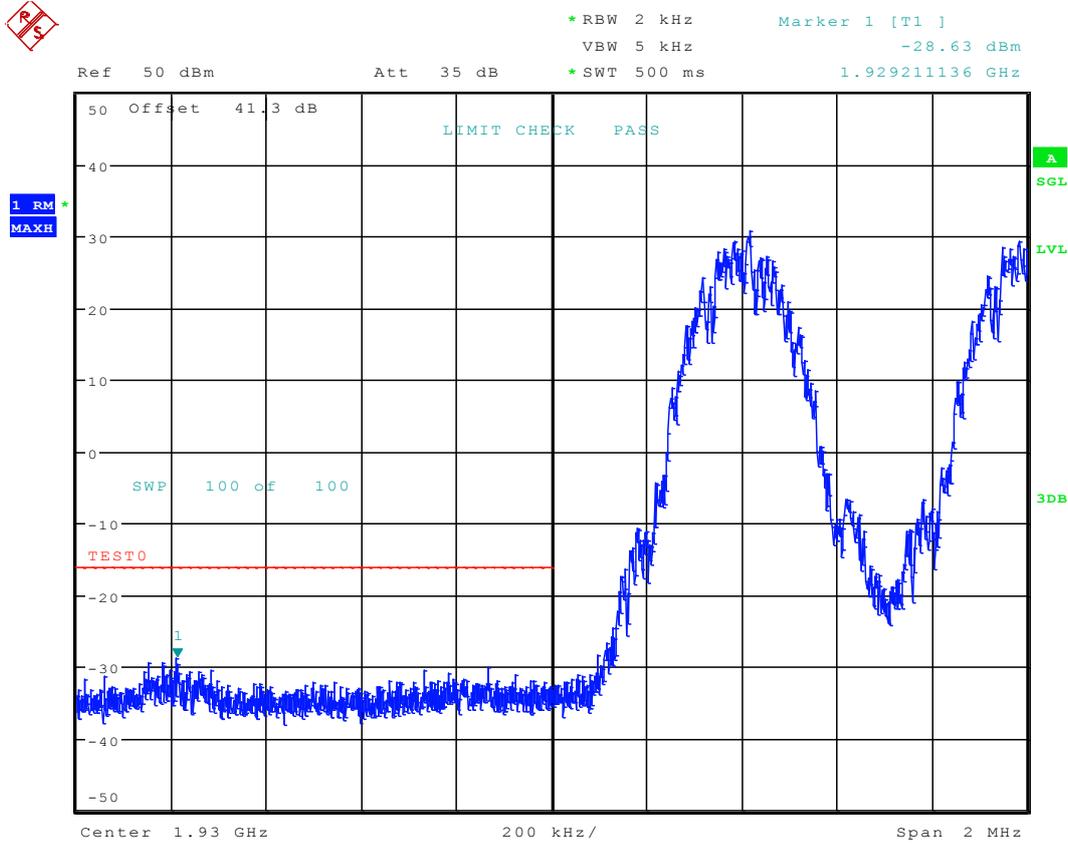
Date: 24.SEP.2013 14:28:58

2.2.1.4 DL_1G_TM1_T_ANTB



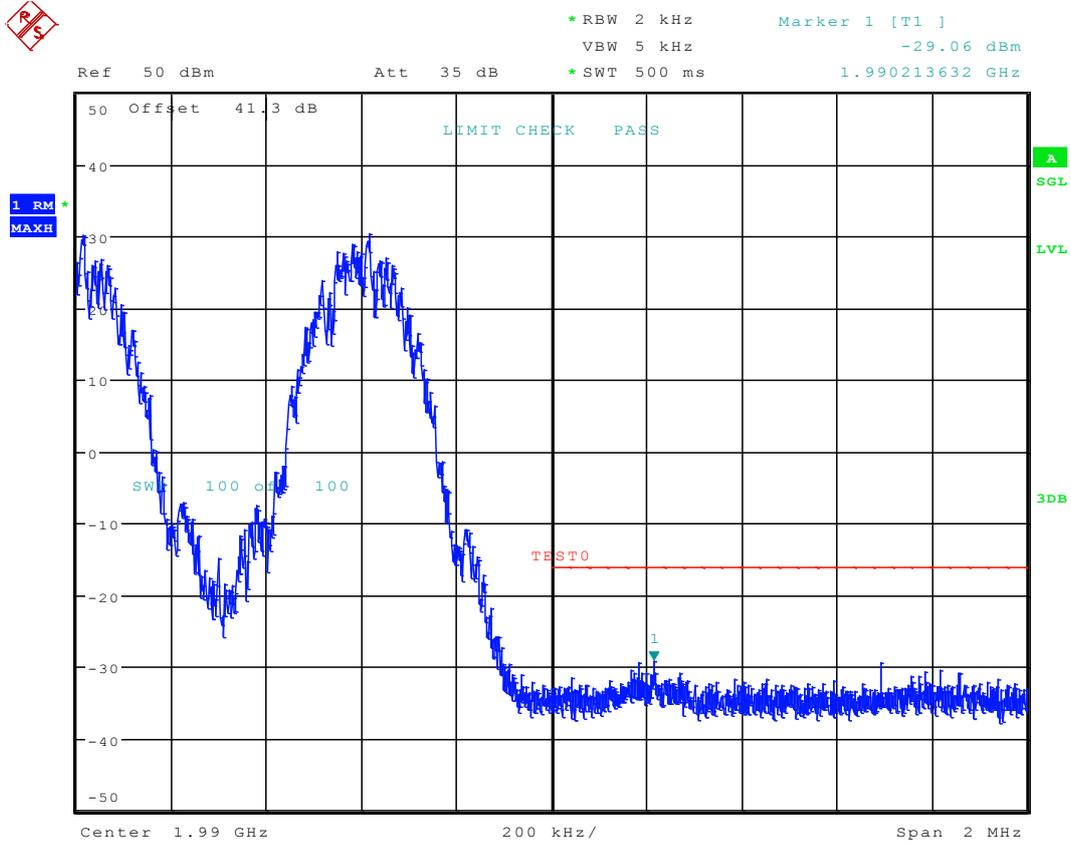
Date: 24.SEP.2013 15:37:45

2.2.1.5 DL_2G_TM1_B_ANTA



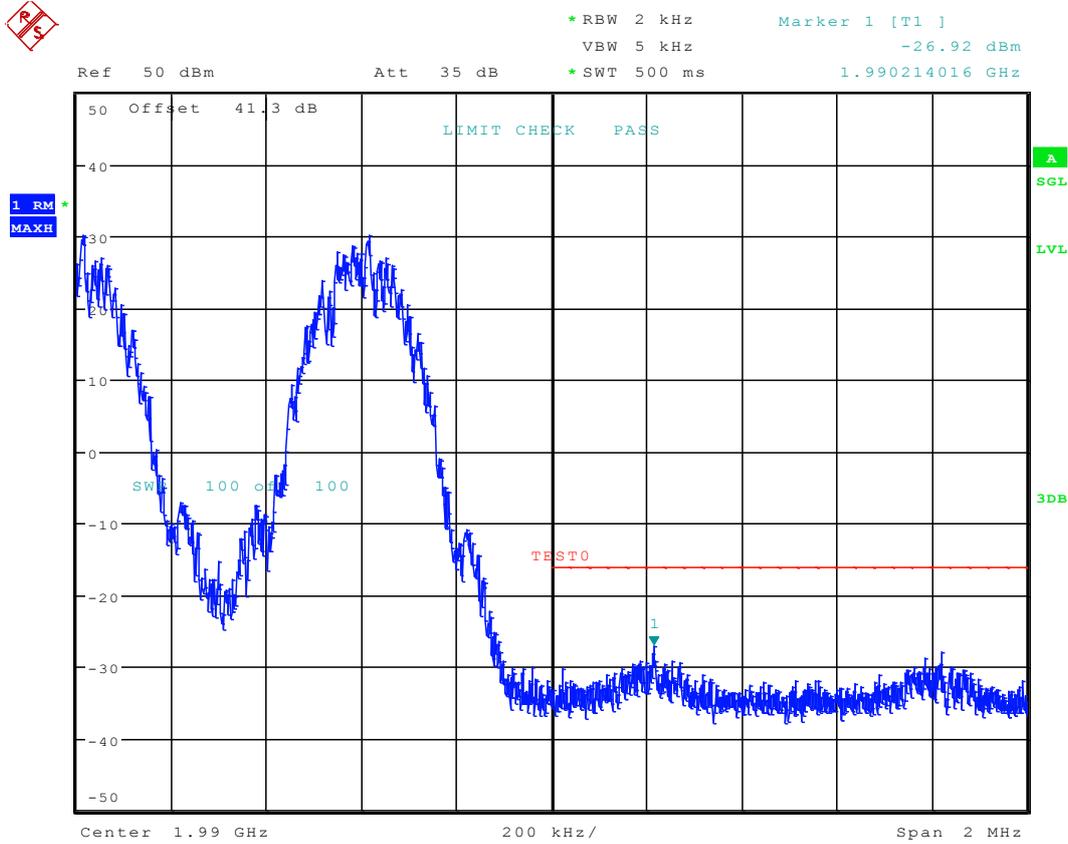
Date: 25.SEP.2013 14:20:36

2.2.1.7 DL_2G_TM1_T_ANTA



Date: 25.SEP.2013 14:29:24

2.2.1.8 DL_2G_TM1_T_ANTB

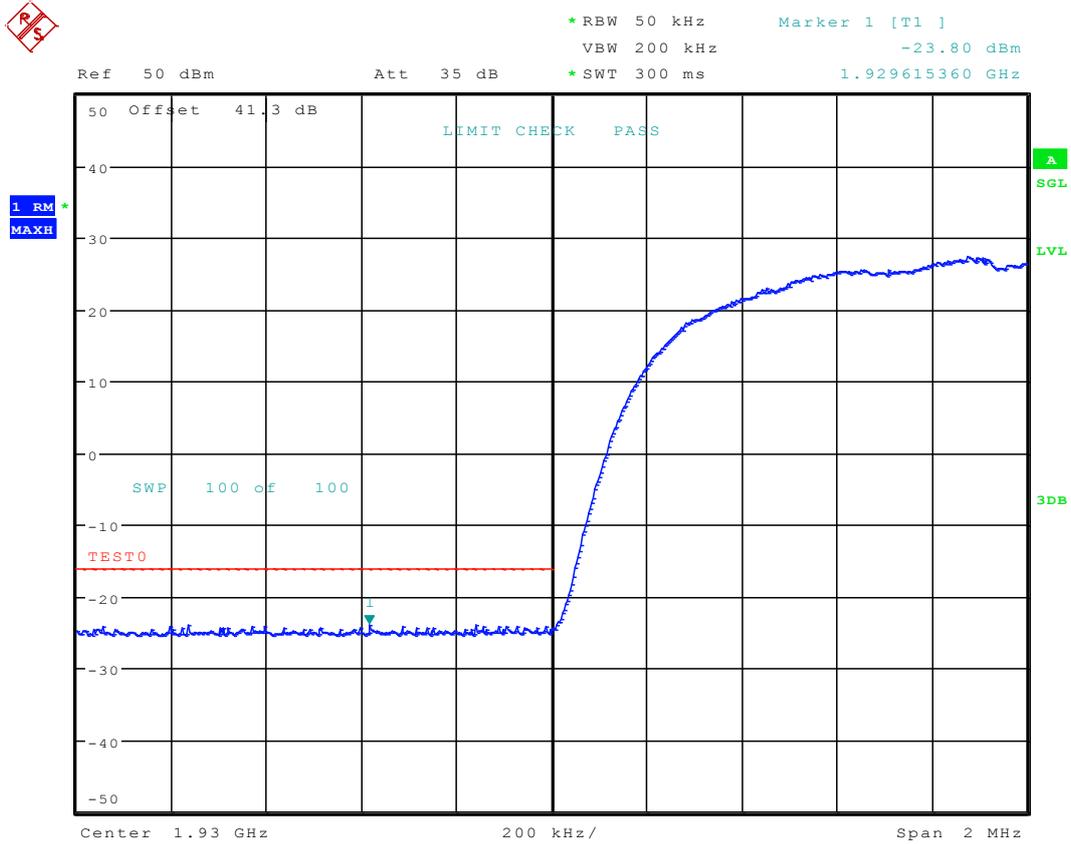


Date: 25.SEP.2013 14:40:23



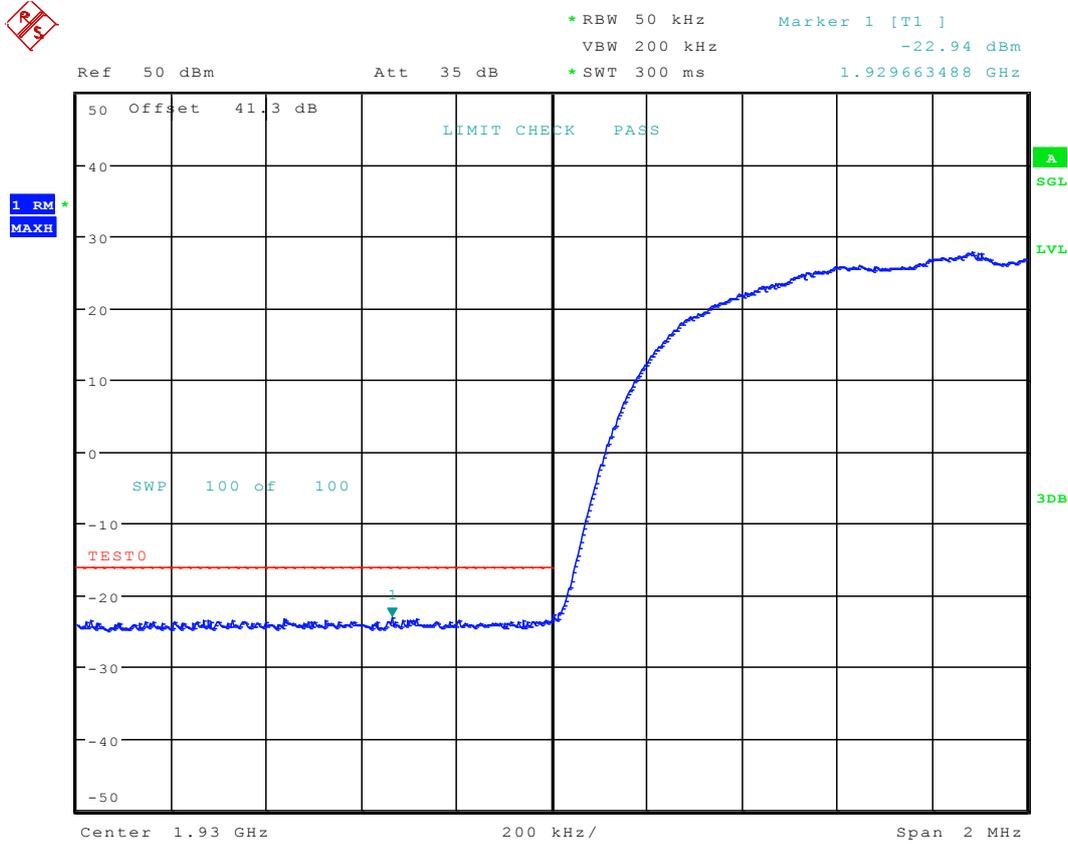
2.2.2 UMTS system

2.2.2.1 DL_1U_TM1_B_ANTA



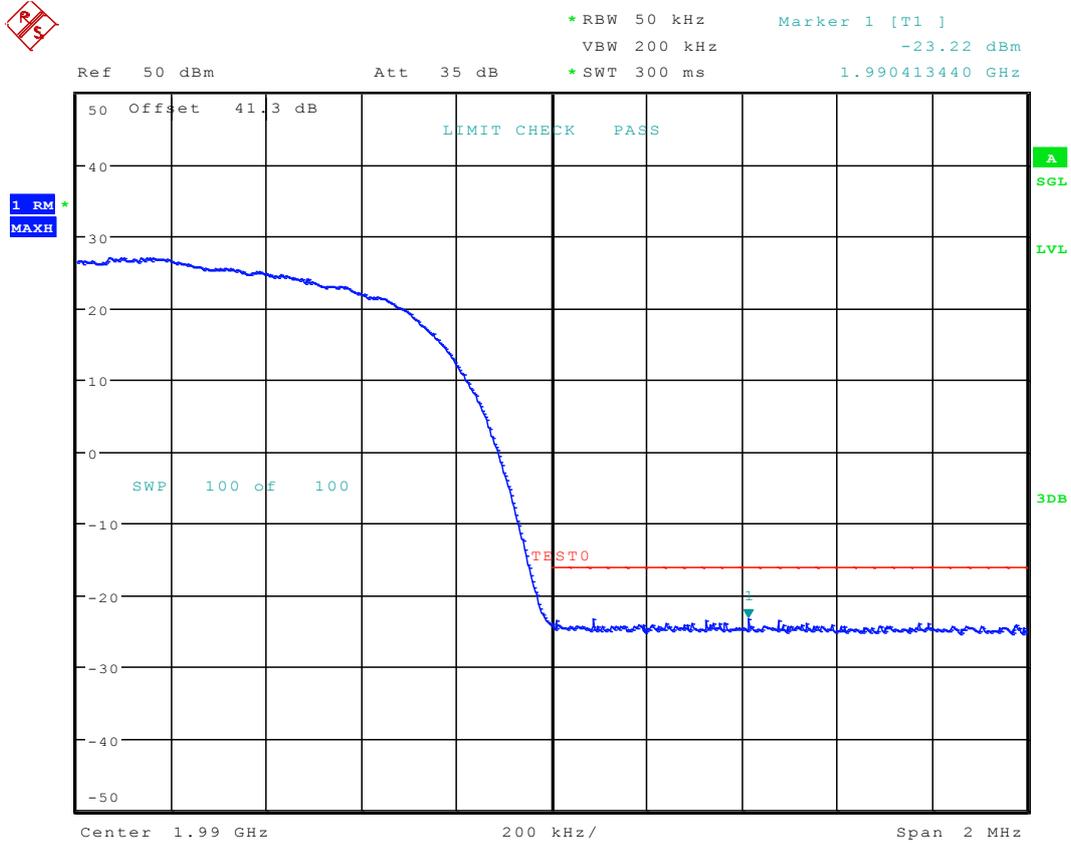
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2.2.2.2 DL_1U_TM1_B_ANTB



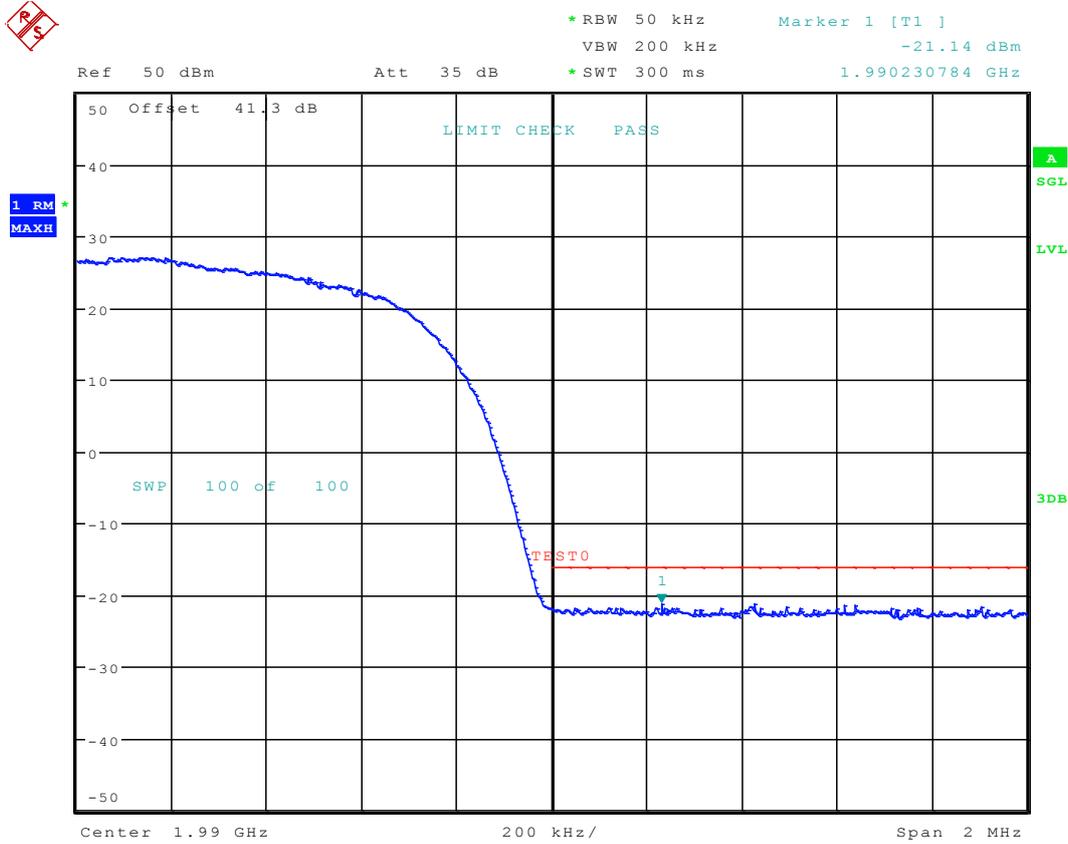
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2.2.2.3 DL_1U_TM1_T_ANTA



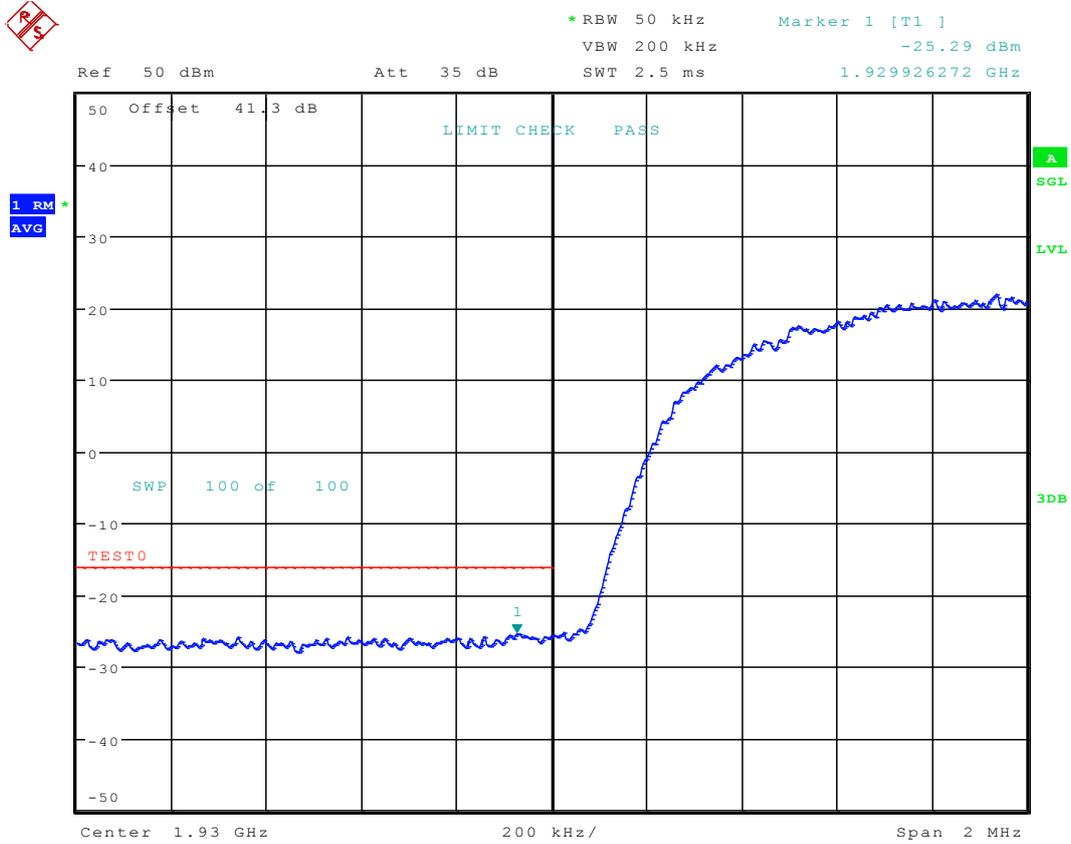
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2.2.2.4 DL_1U_TM1_T_ANTB



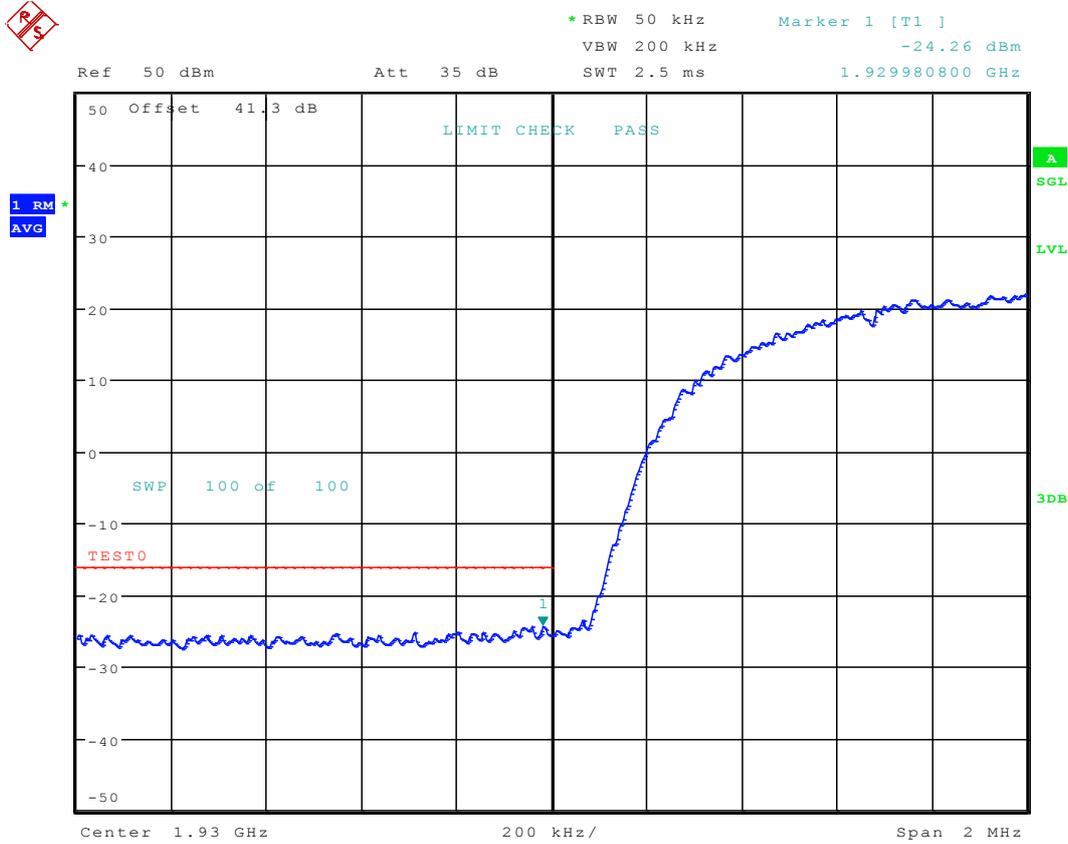
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2.2.2.5 DL_2U_TM1_B_ANTA



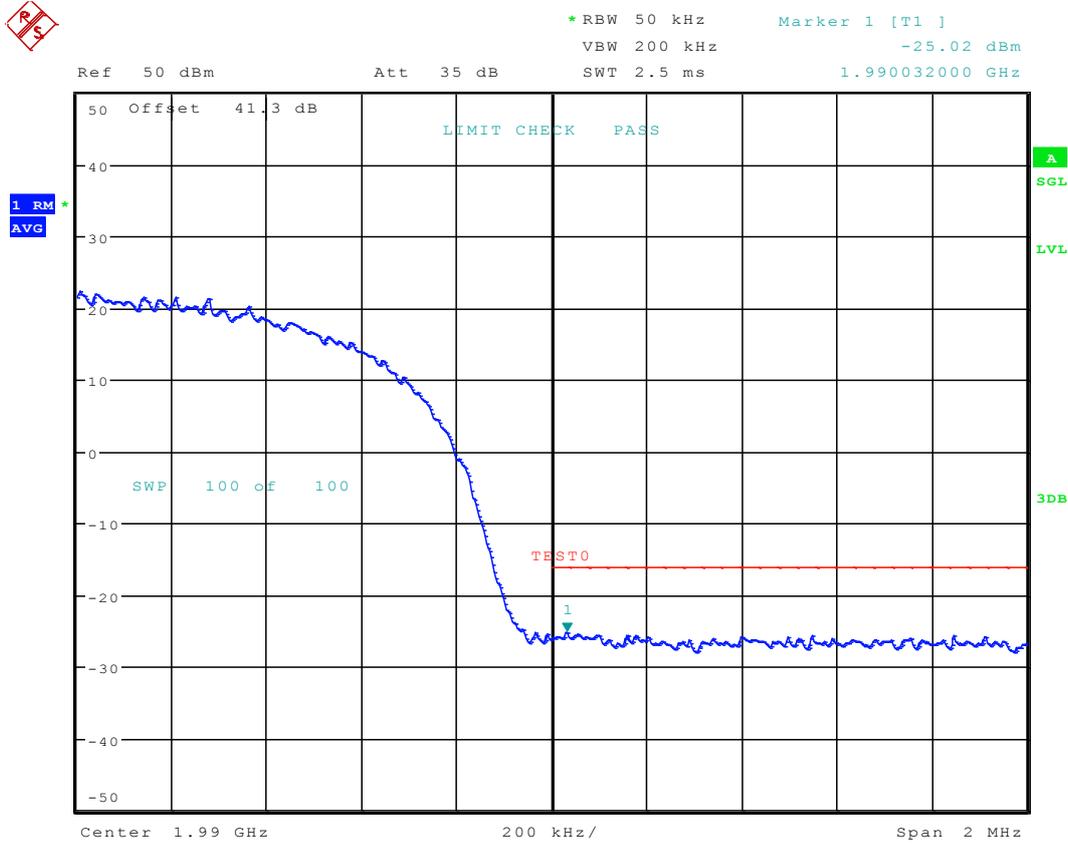
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2.2.2.6 DL_2U_TM1_B_ANTB



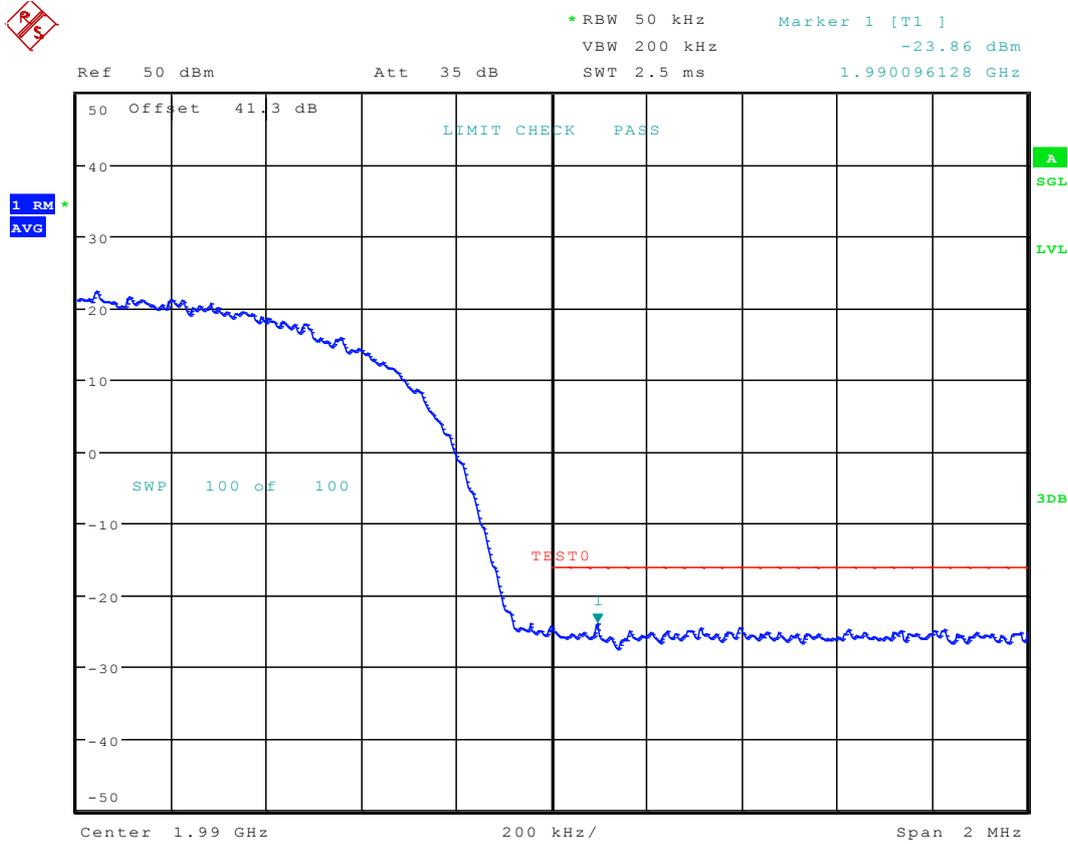
Date: 25.SEP.2013 15:55:13

2.2.2.7 DL_2U_TM1_T_ANTA



Date: 25.SEP.2013 16:17:46

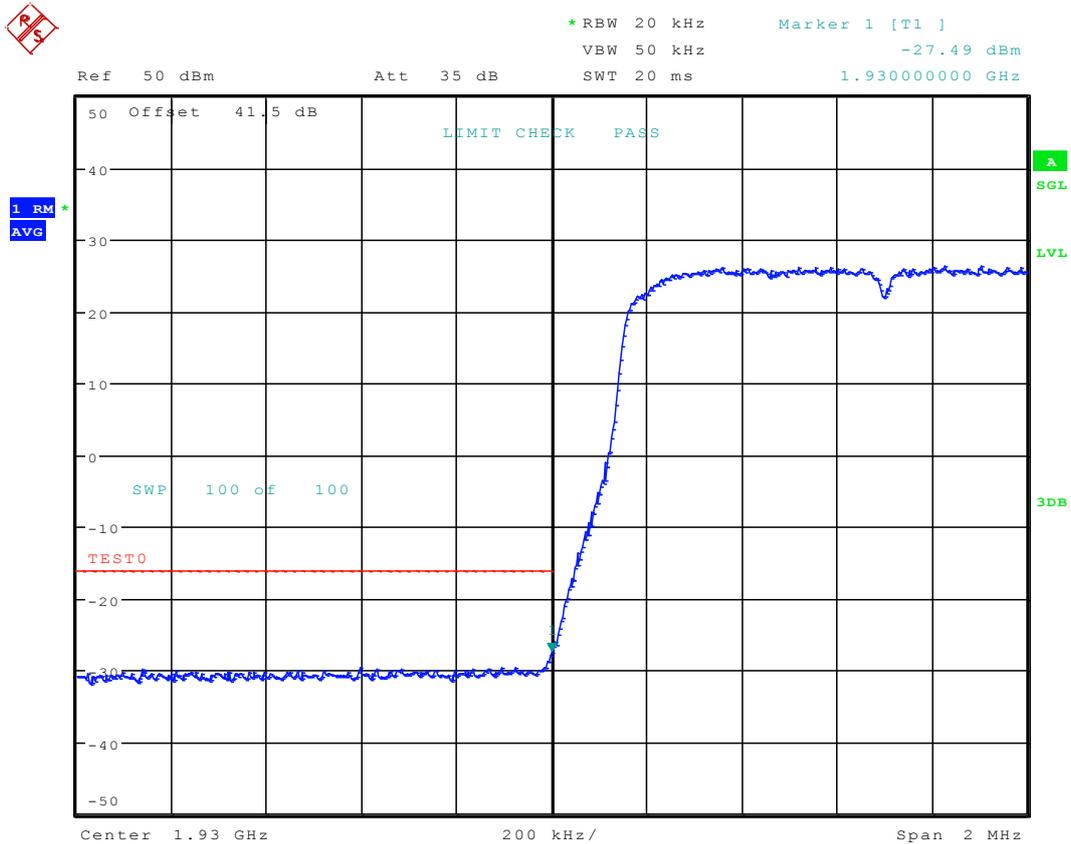
2.2.2.8 DL_2U_TM1_T_ANTB



Date: 25.SEP.2013 16:09:05

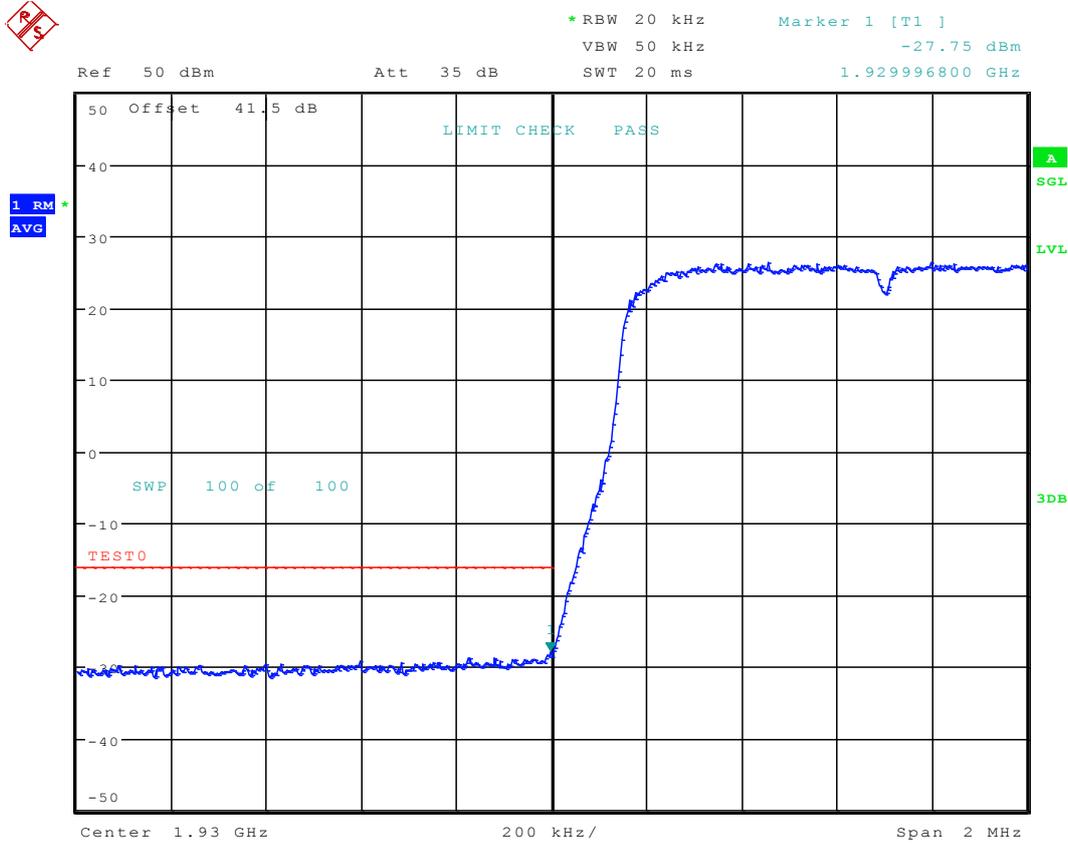
2.2.3 LTE system

2.2.3.1 DL_1L_1.4M_B_ANTA



Date: 7.DEC.2013 18:13:49

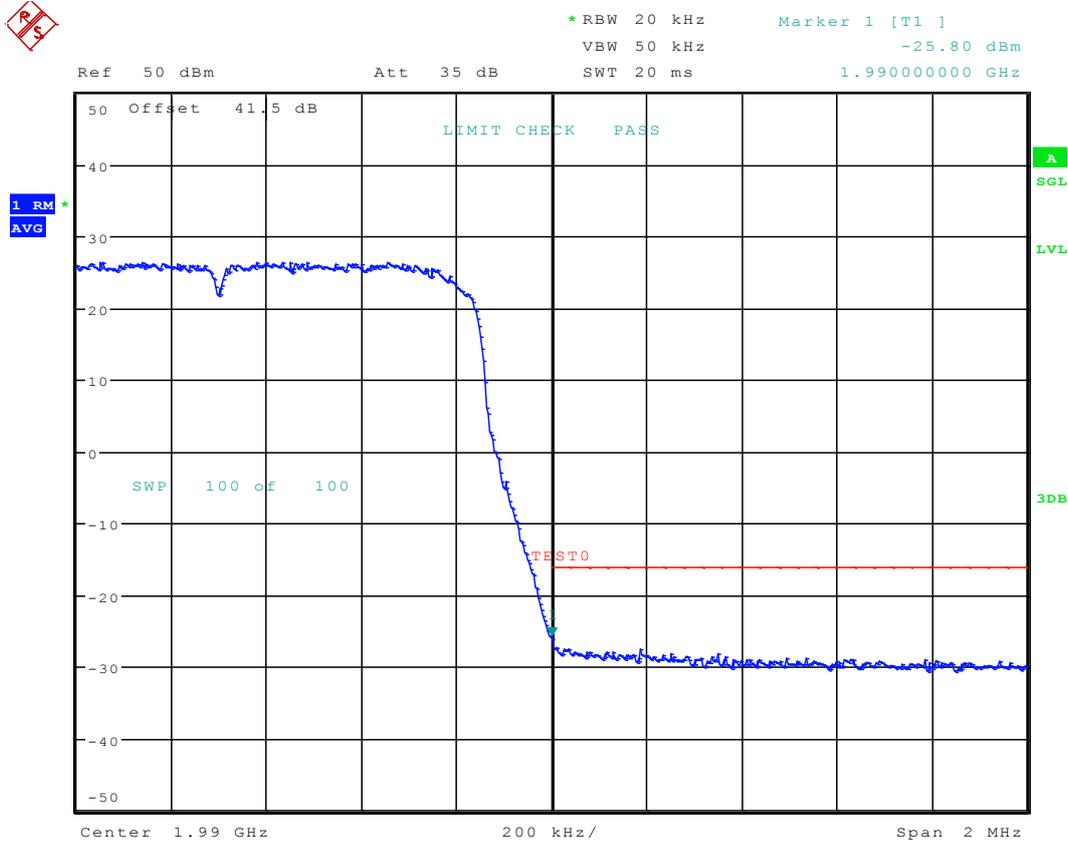
2.2.3.2 DL_1L_1.4M_B_ANTB



Date: 7.DEC.2013 18:19:52

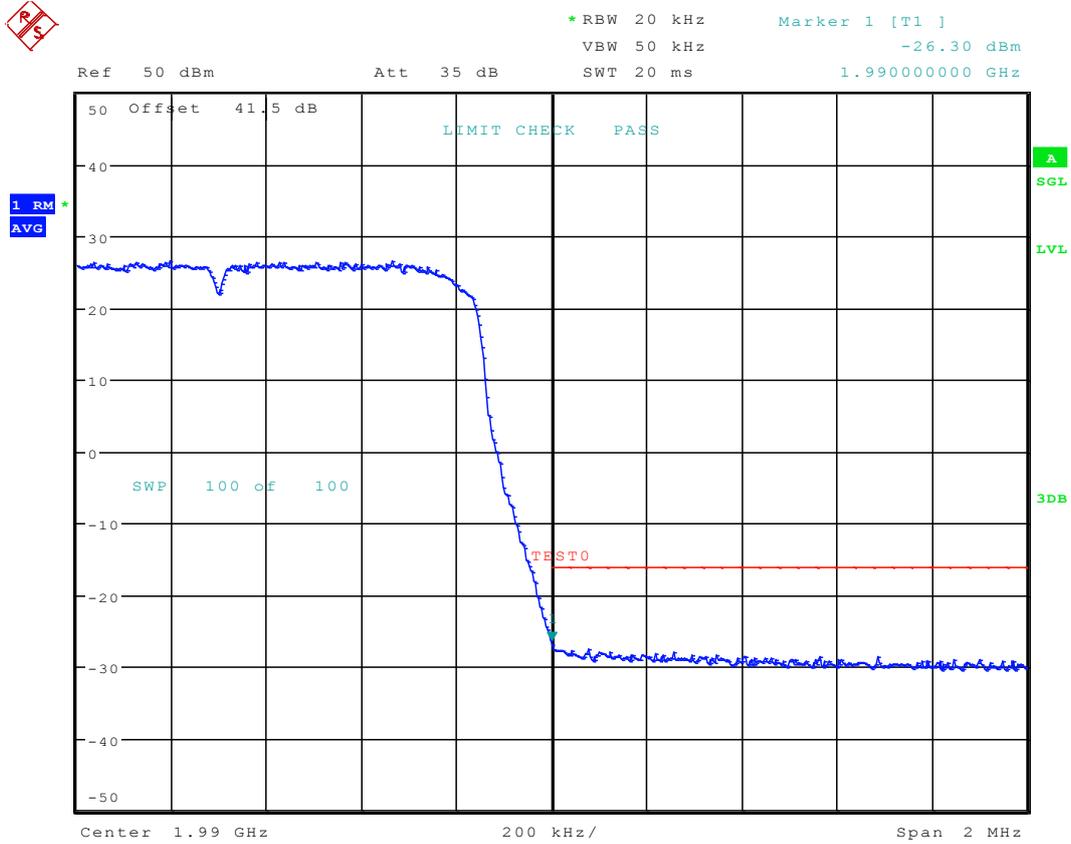


2.2.3.3 DL_1L_1.4M_T_ANTA



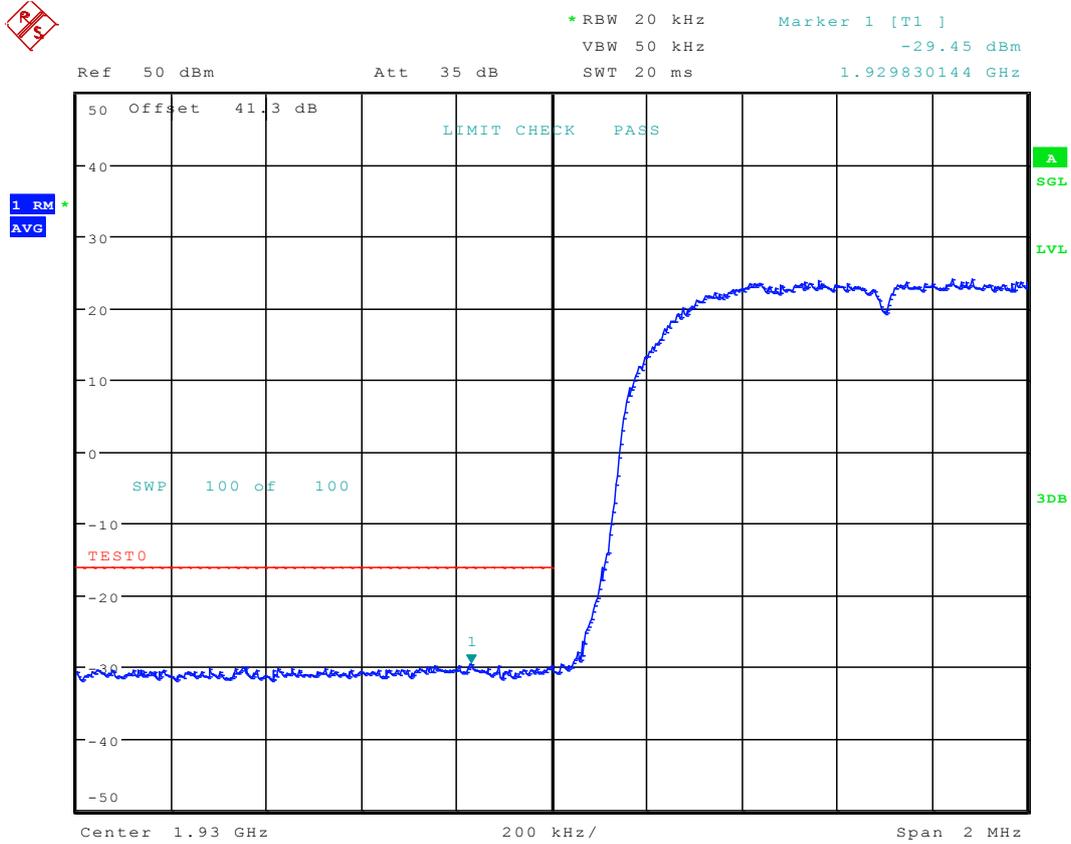
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2.2.3.4 DL_1L_1.4M_T_ANTB



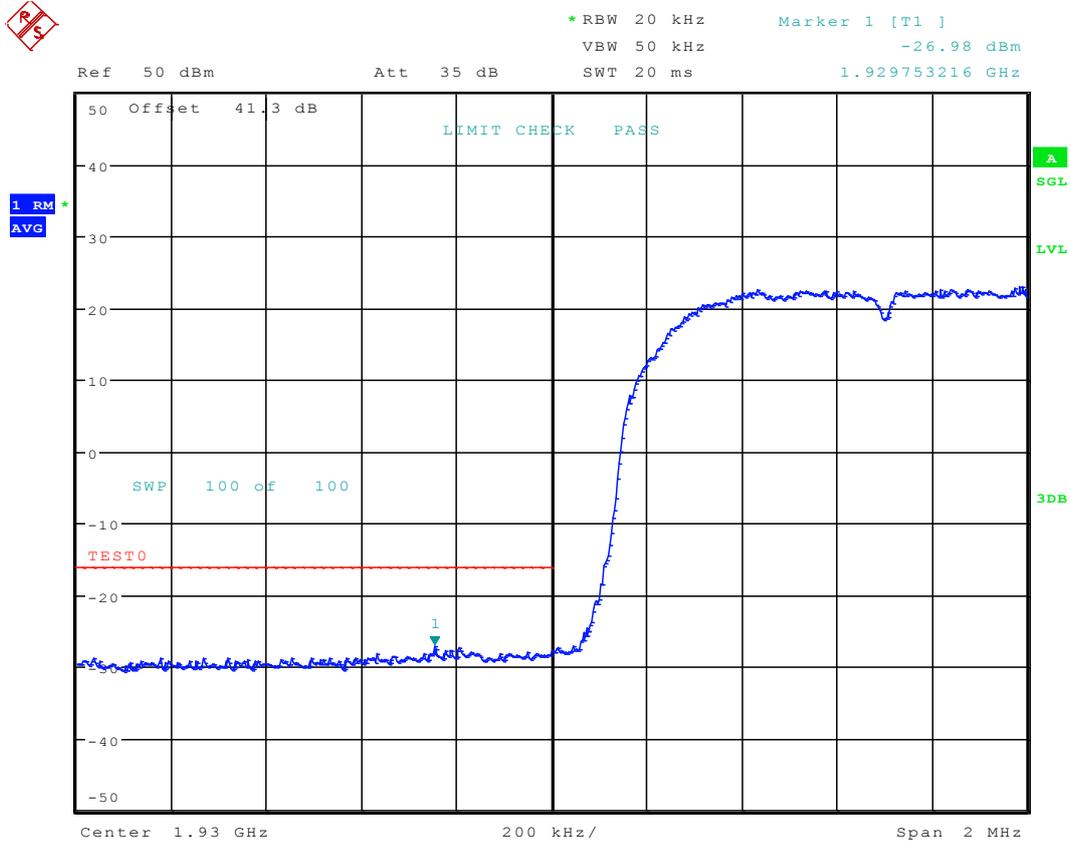
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2.2.3.5 DL_2L_1.4M_B_ANTA



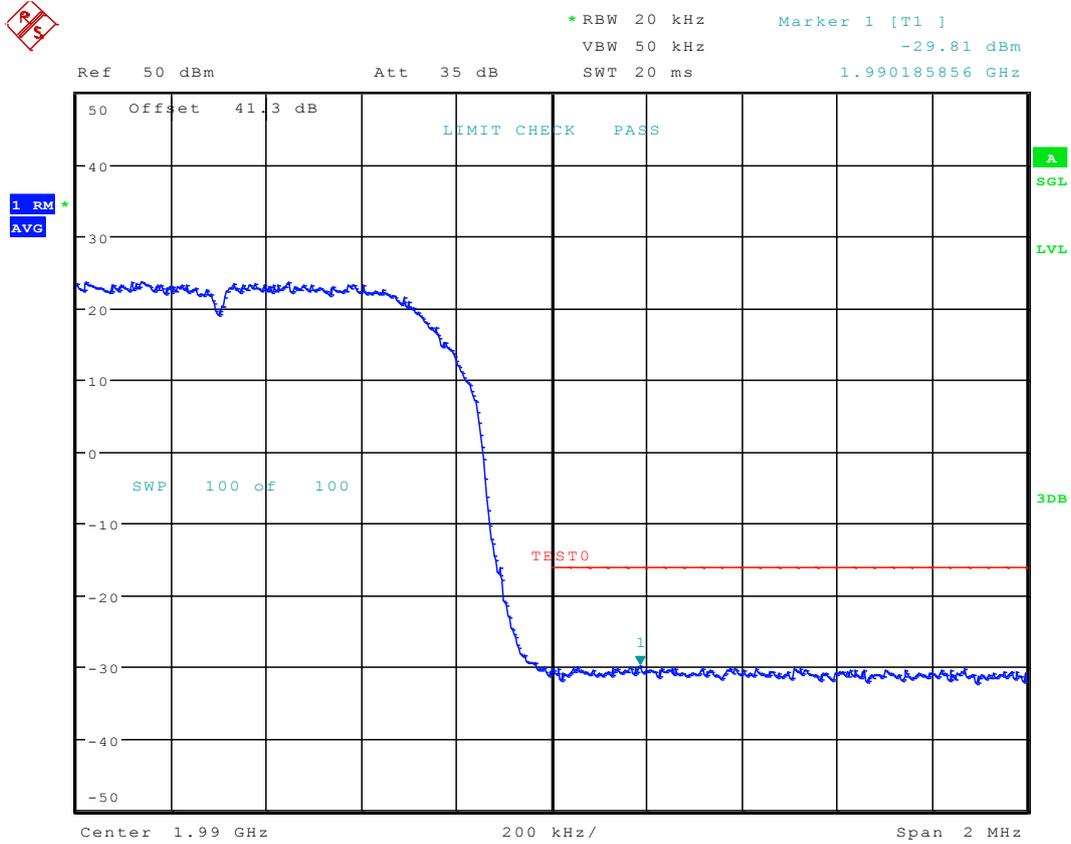
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2.2.3.6 DL_2L_1.4M_B_ANTB



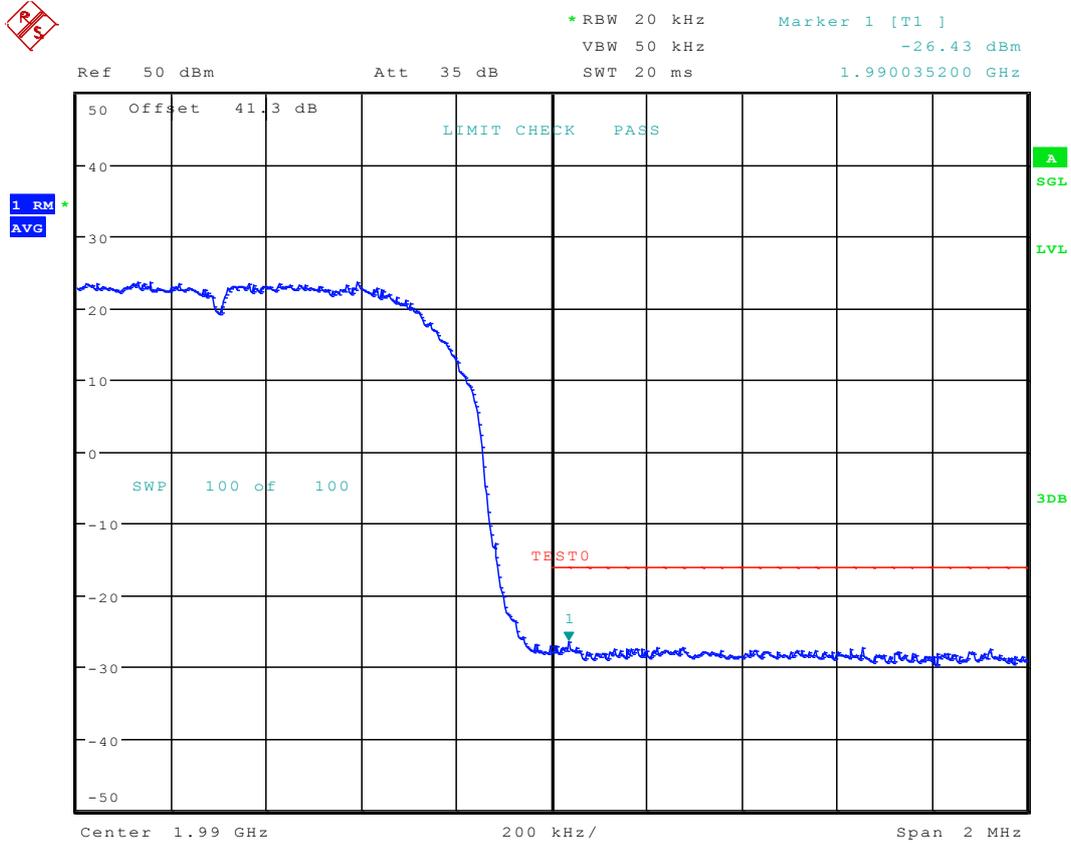
Date: 25.SEP.2013 16:38:05

2.2.3.7 DL_2L_1.4M_T_ANTA



Date: 25.SEP.2013 16:29:10

2.2.3.8 DL_2L_1.4M_T_ANTB

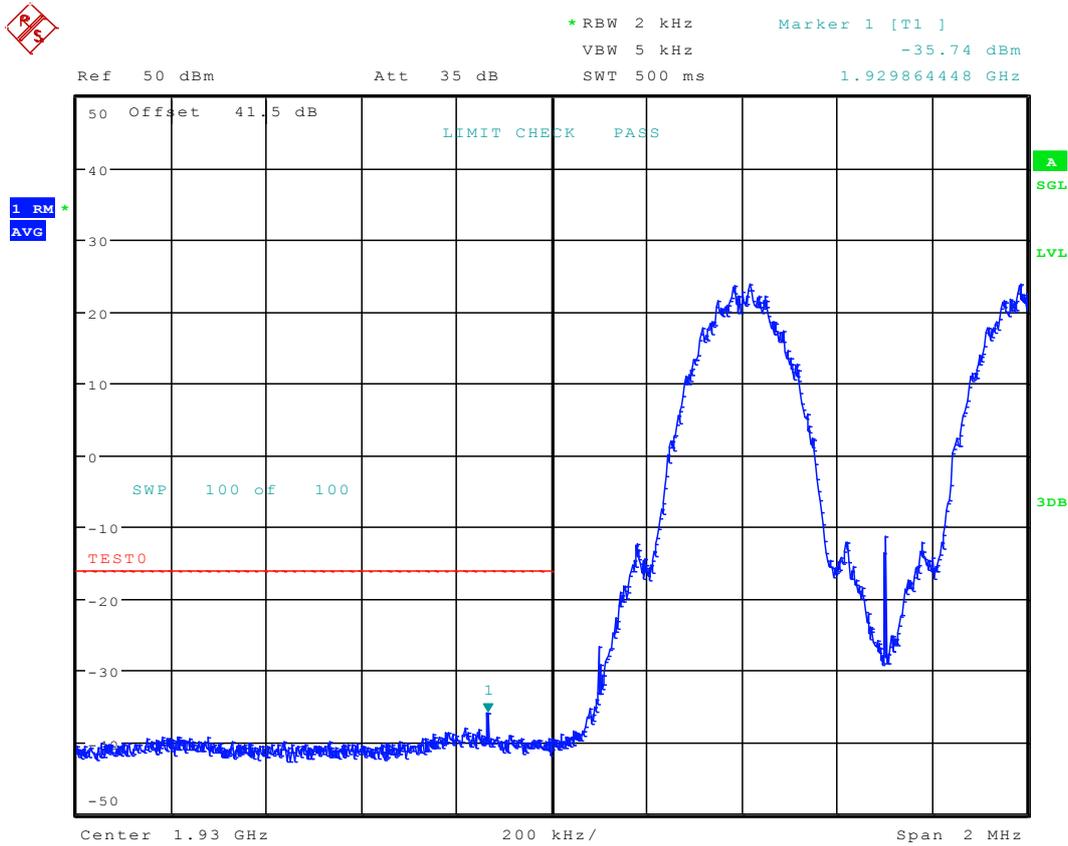


Date: 25.SEP.2013 16:42:32

2.3 Downlink Test Plots (input signal +10dB with AGC activated)

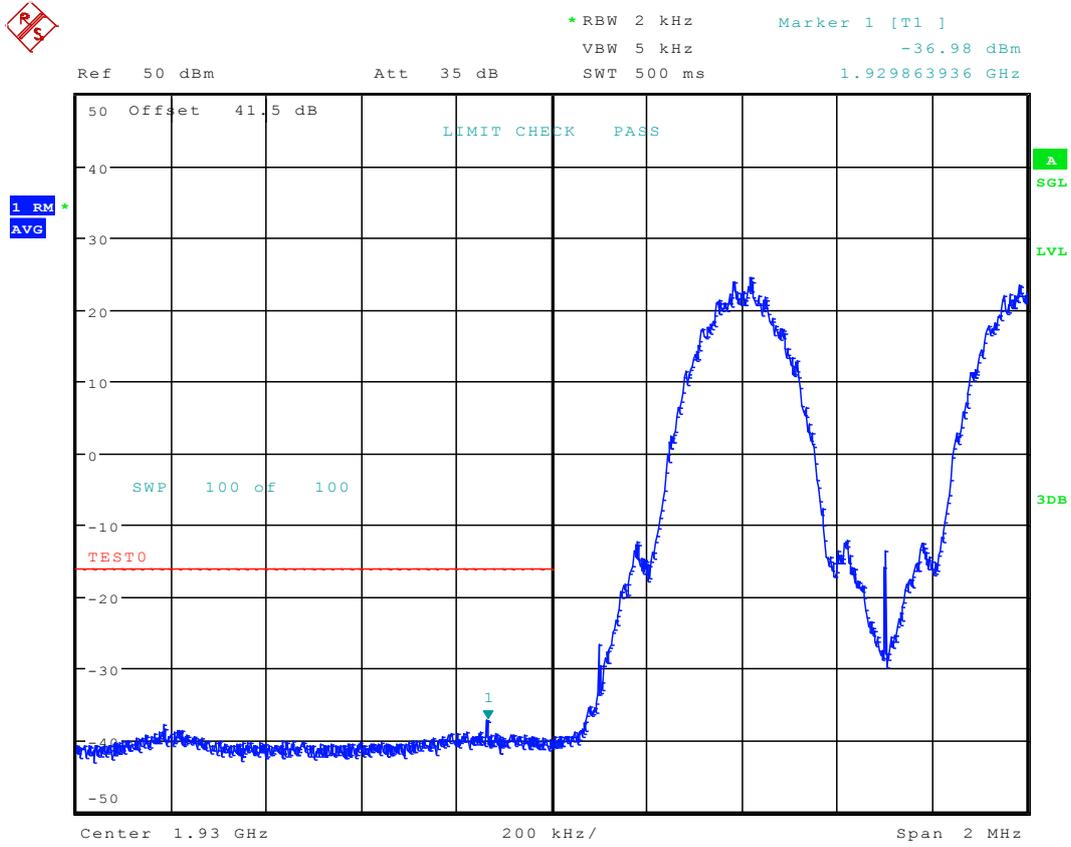
2.3.1 GSM system

2.3.1.1 DL_2G_TM1_B_ANTA



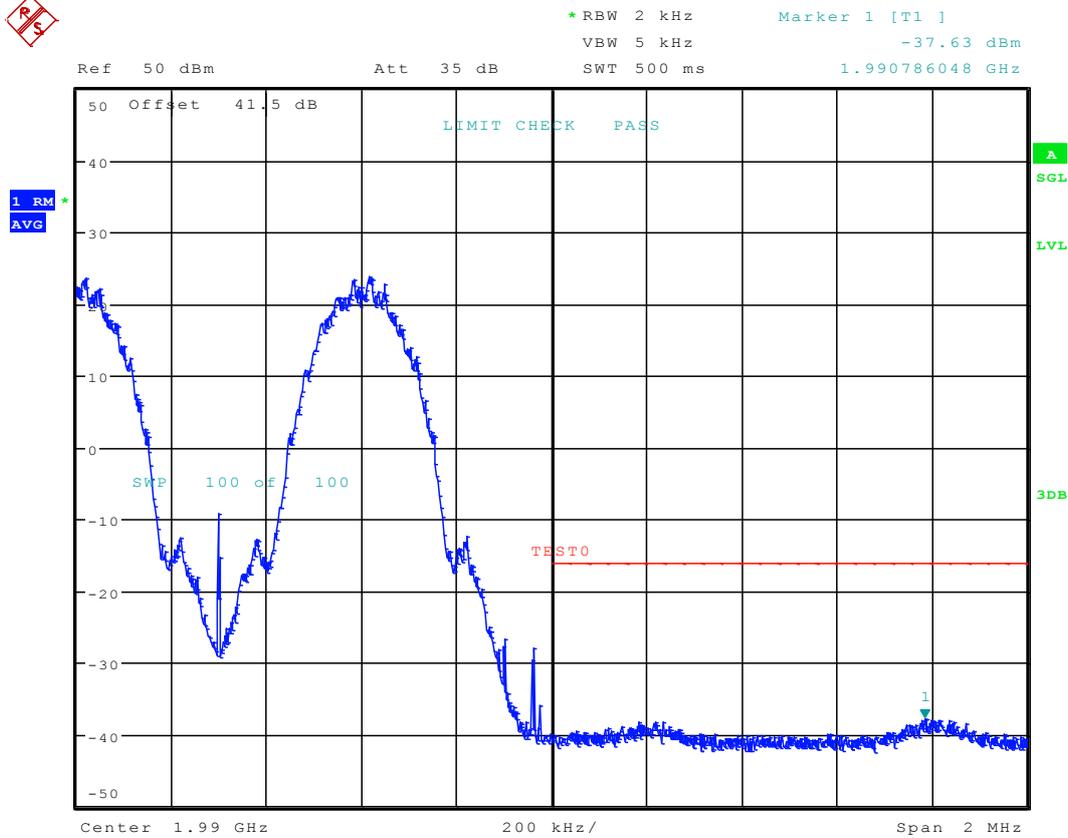
Date: 7.DEC.2013 19:32:33

2.3.1.2 DL_2G_TM1_B_ANTB



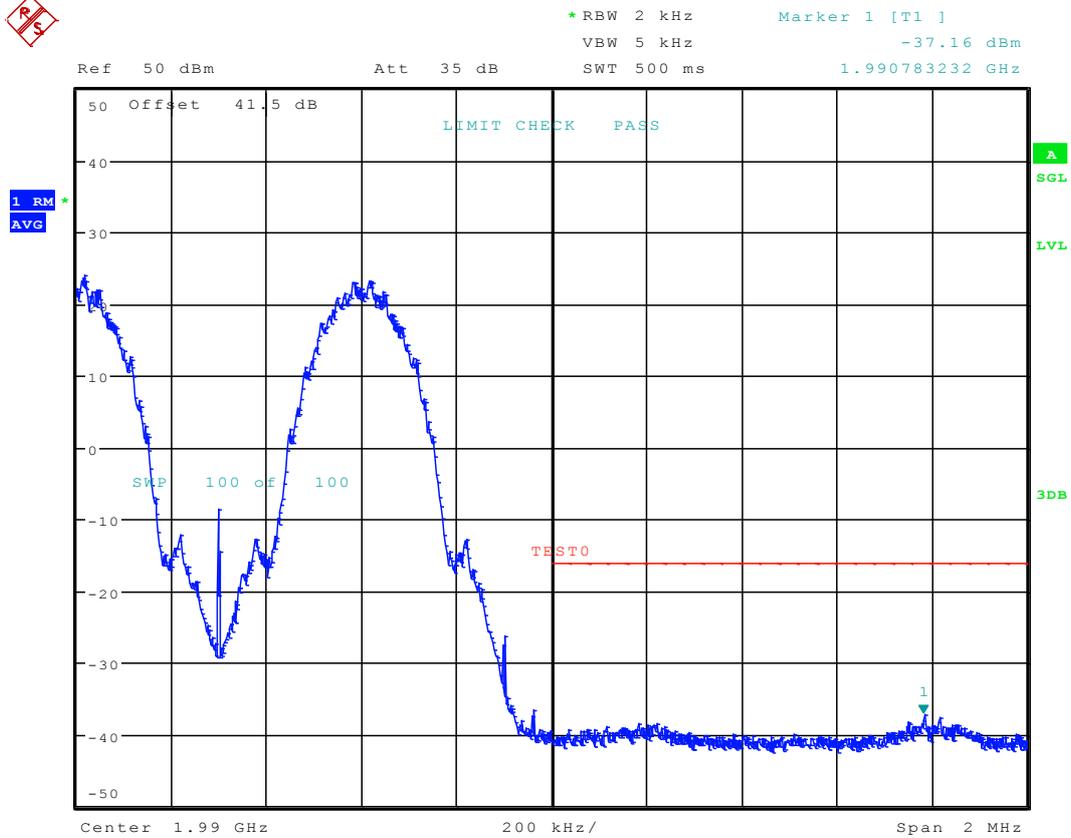
Date: 9.DEC.2013 09:51:16

2.3.1.3 DL_2G_TM1_T_ANTA



Date: 9.DEC.2013 10:14:43

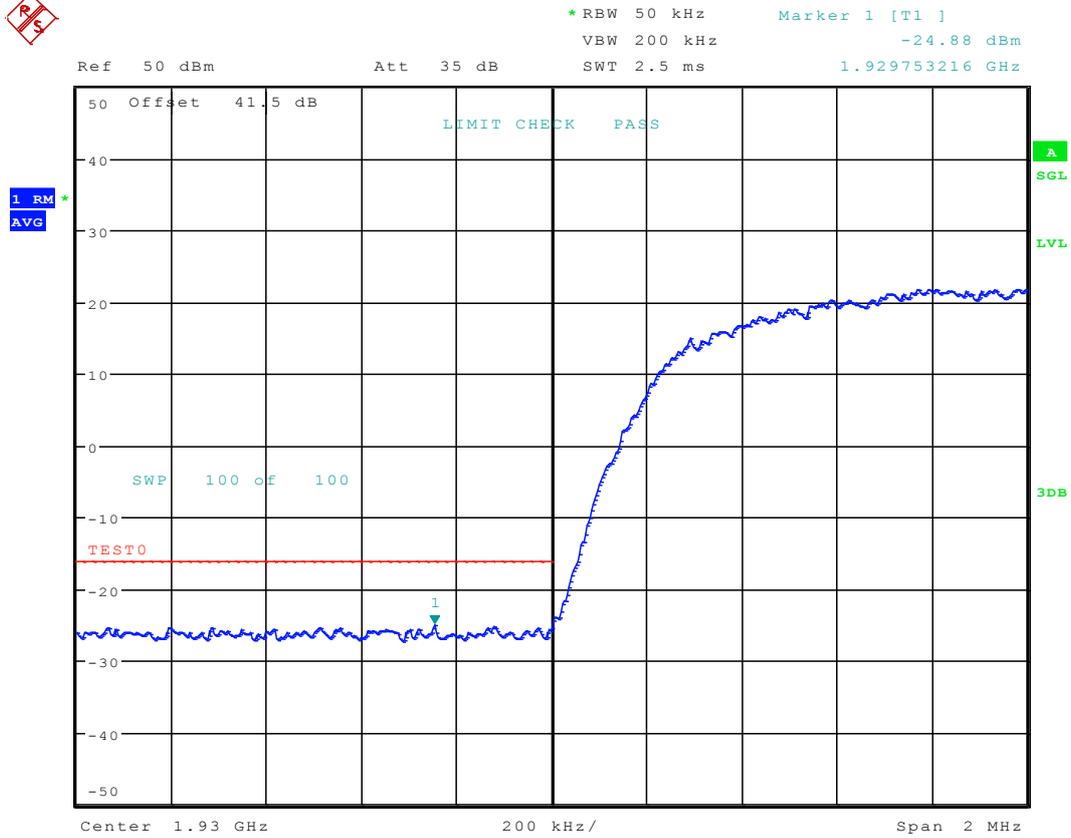
2.3.1.4 DL_2G_TM1_T_ANTB



Date: 9.DEC.2013 10:33:24

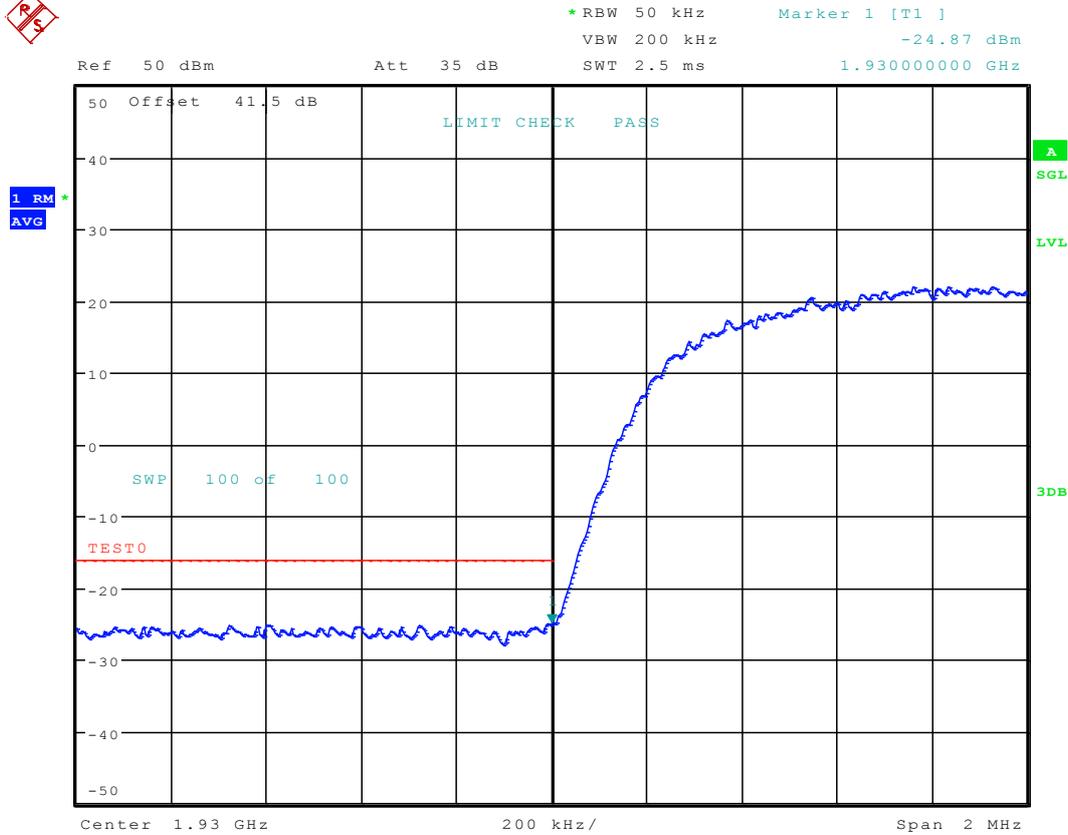
2.3.2 UMTS system

2.3.2.1 DL_2U_TM1_B_ANTA



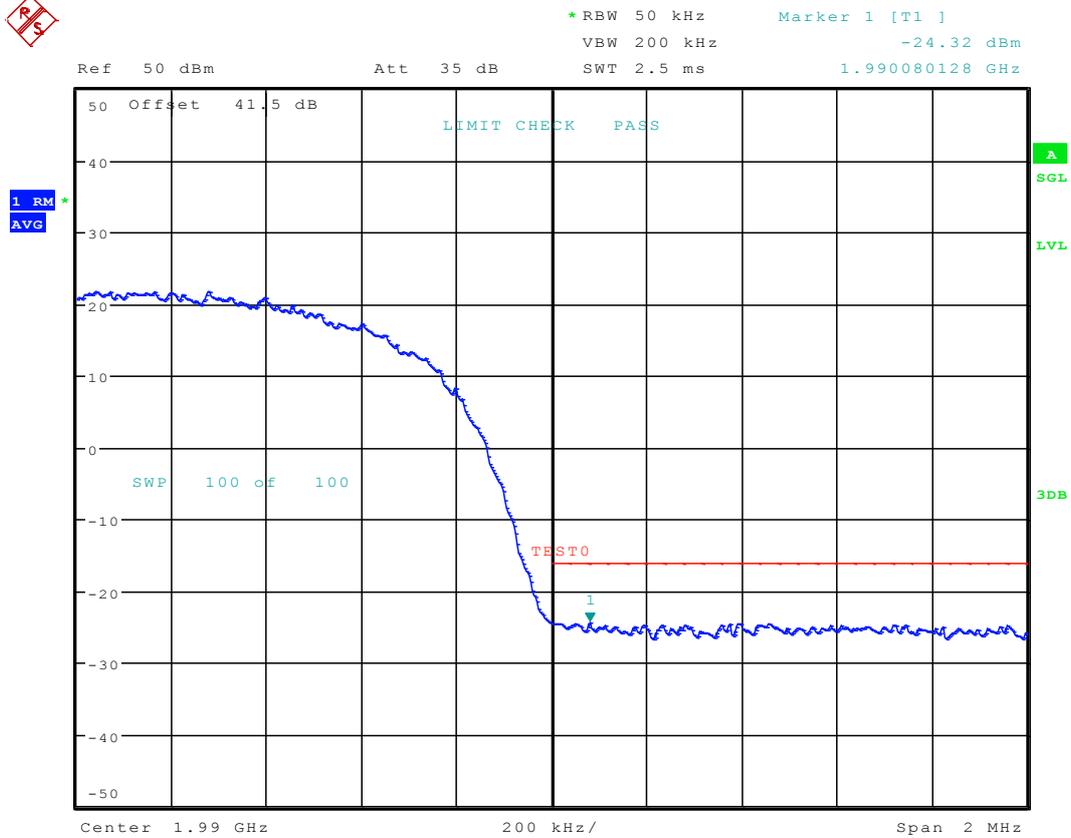
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2.3.2.2 DL_2U_TM1_B_ANTB



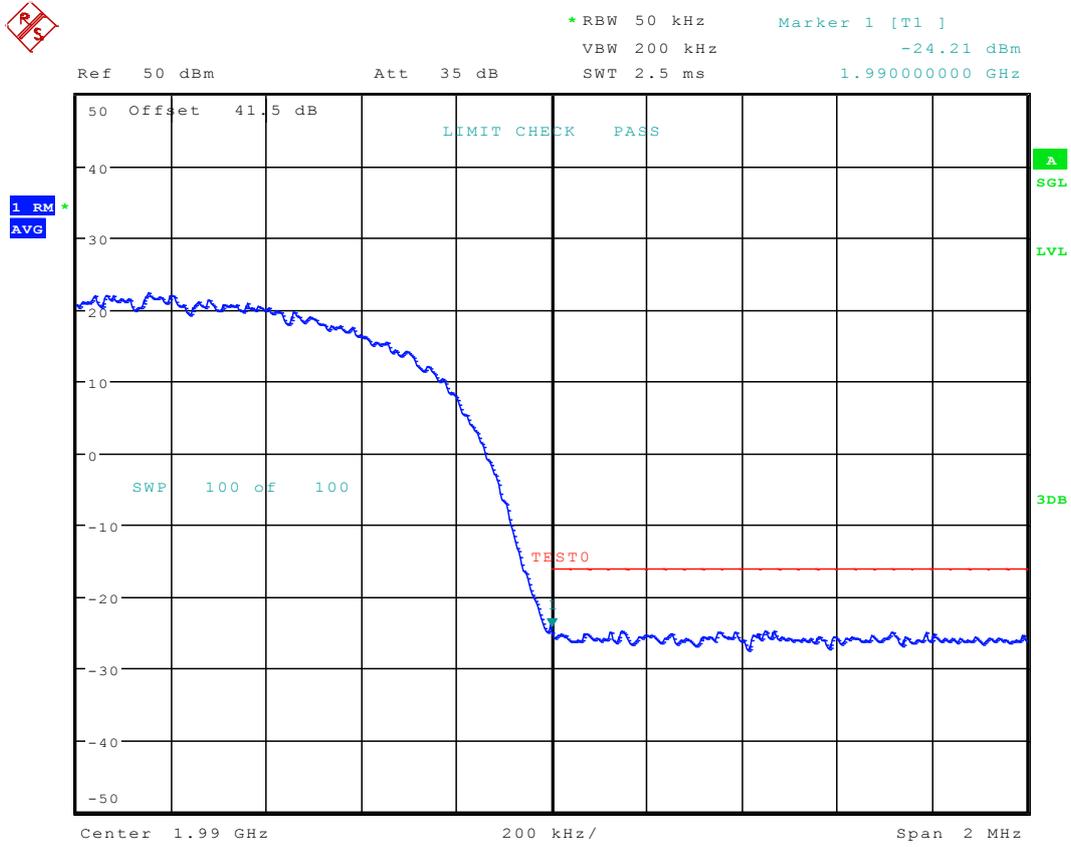
Date: 9.DEC.2013 11:14:18

2.3.2.3 DL_2U_TM1_T_ANTA



Date: 9.DEC.2013 11:52:42

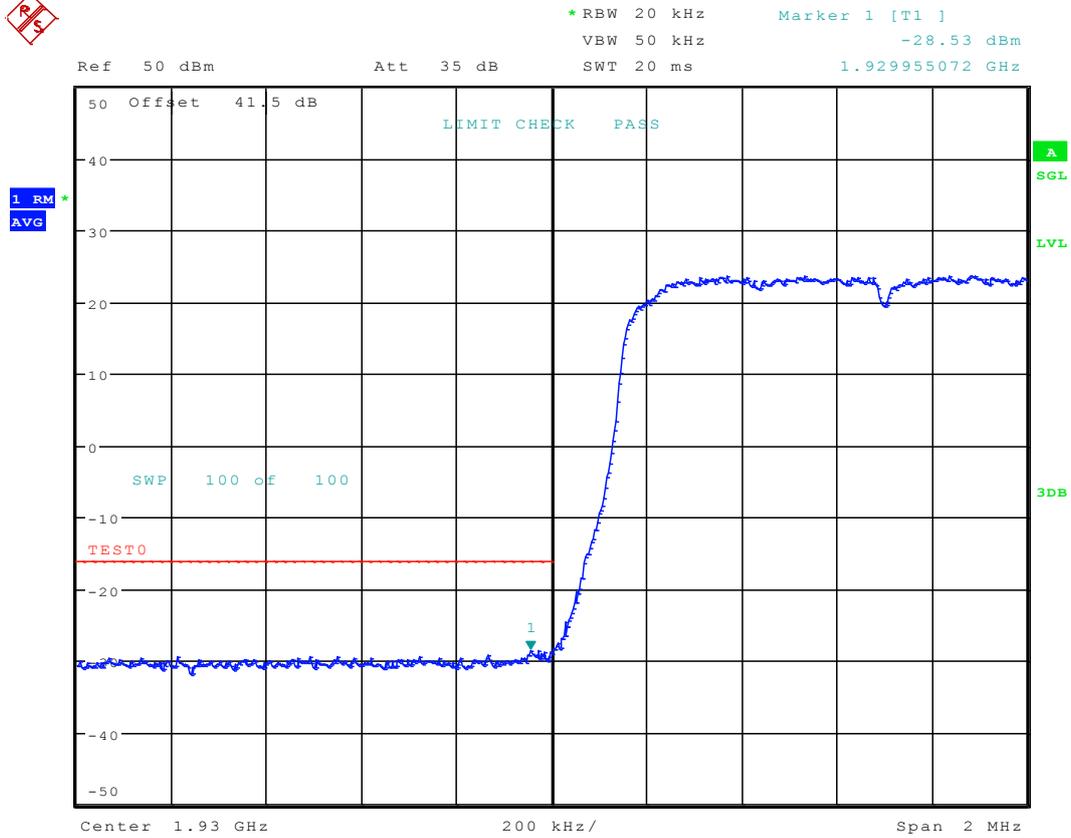
2.3.2.4 DL_2U_TM1_T_ANTB



Date: 9.DEC.2013 11:55:44

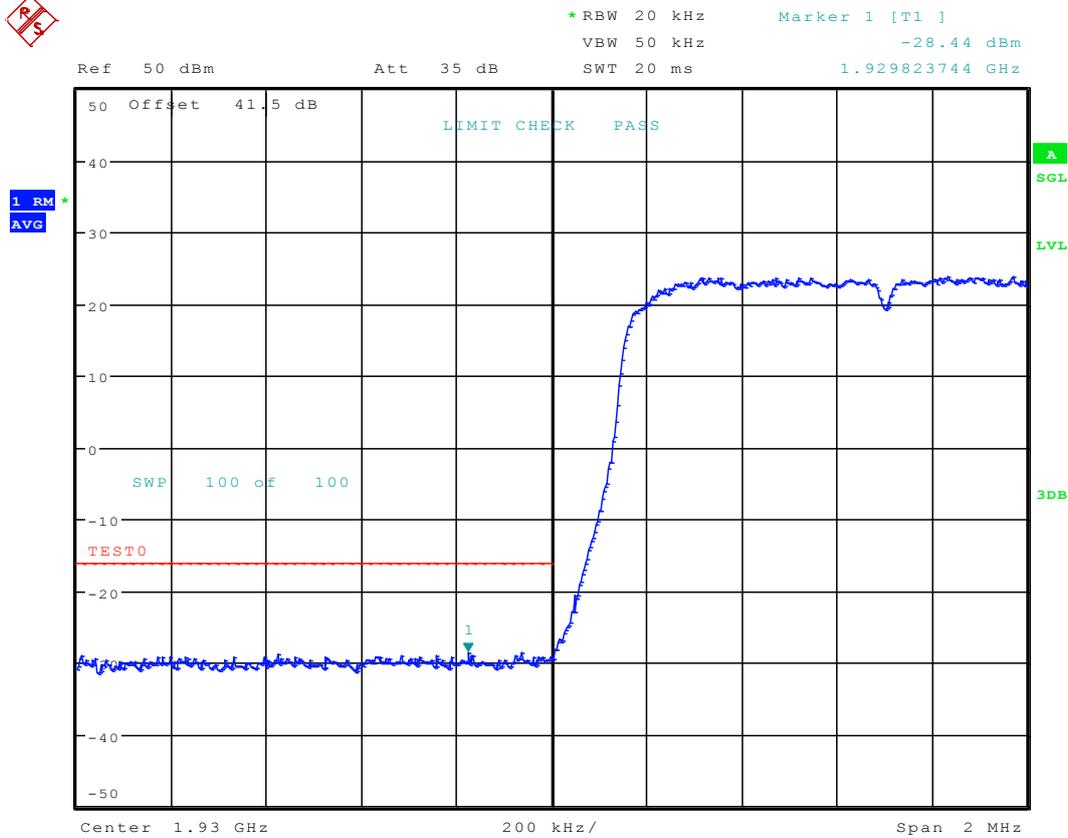
2.3.3 LTE system

2.3.3.1 DL_2L_1.4M_B_ANTA



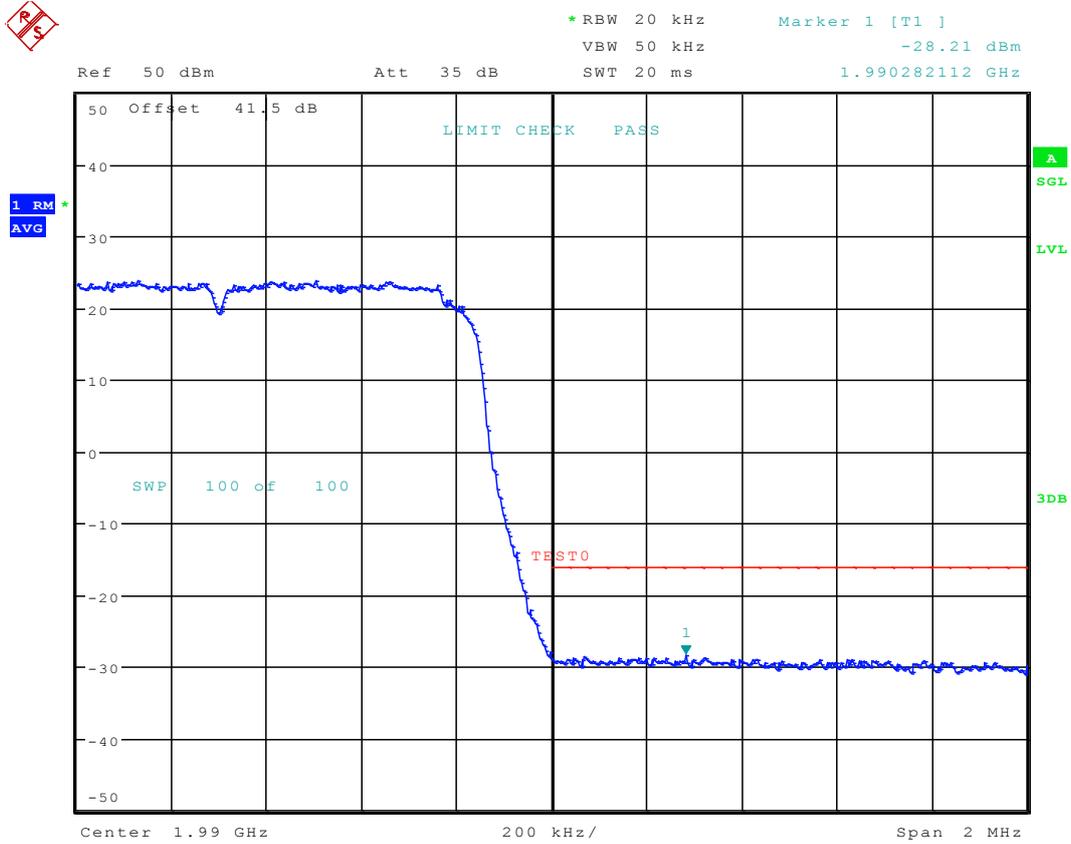
Date: 9.DEC.2013 12:21:16

2.3.3.2 DL_2L_1.4M_B_ANTB



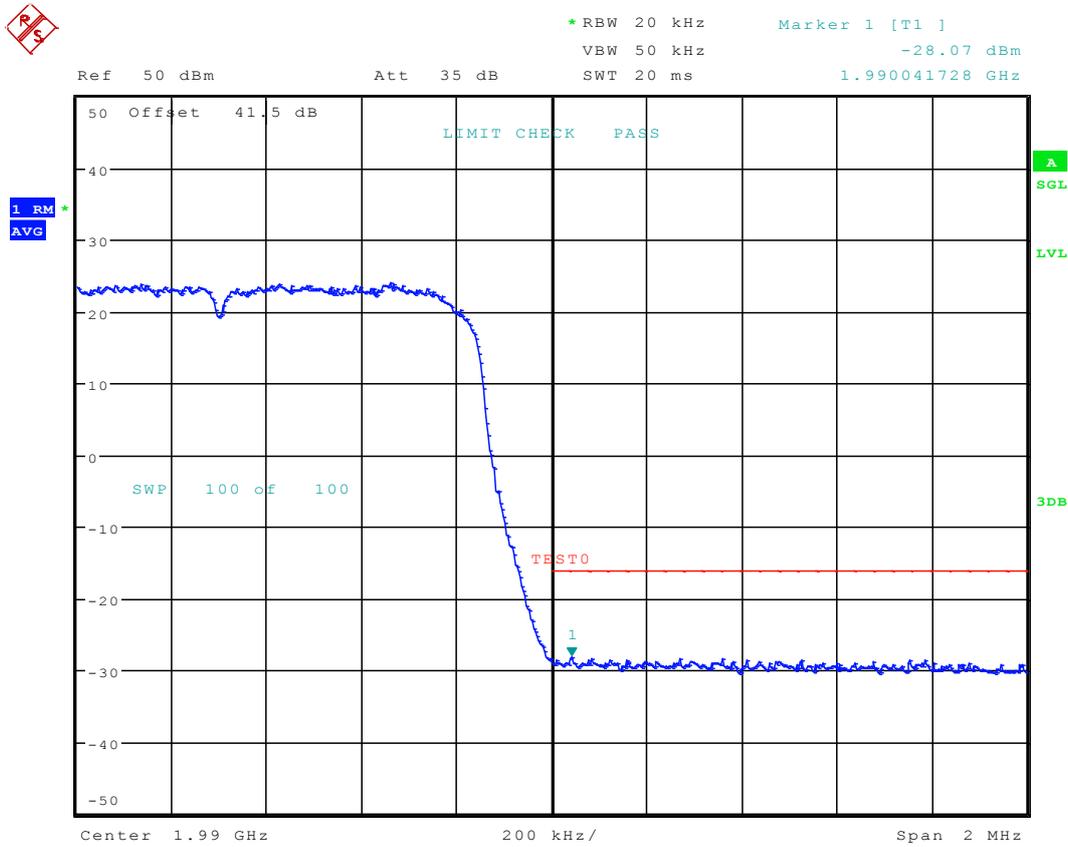
Date: 9.DEC.2013 12:23:58

2.3.3.3 DL_2L_1.4M_T_ANTA



Date: 9.DEC.2013 14:18:56

2.3.3.4 DL_2L_1.4M_T_ANTB



Date: 9.DEC.2013 14:23:01



Appendix D: Spurious Emission at Antenna Terminals

1 Result Table

NOTE1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

NOTE 2: Since the EUT transmits on two antennas simultaneously in the same frequency with MIMO mode, using the measure and minus $10\log(N)$ technique, so the limits for spurious emissions at antenna terminal should be adjusted with a correction of $10\log 2$.

1.1 Uplink Test Results

Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

1.2 Downlink Test Results (without AGC activated)

1.2.1 GSM system

EUT Conf.	Limit(dBm)	Verdict
DL_1G_TM1_B_ANTA	-16	Pass
DL_1G_TM1_B_ANTB	-16	Pass
DL_1G_TM1_M_ANTA	-16	Pass
DL_1G_TM1_M_ANTB	-16	Pass
DL_1G_TM1_T_ANTA	-16	Pass
DL_1G_TM1_T_ANTB	-16	Pass
DL_2G_TM1_B_ANTA	-16	Pass
DL_2G_TM1_B_ANTB	-16	Pass
DL_2G_TM1_M_ANTA	-16	Pass
DL_2G_TM1_M_ANTB	-16	Pass
DL_2G_TM1_T_ANTA	-16	Pass
DL_2G_TM1_T_ANTB	-16	Pass

1.2.2 UMTS system

EUT Conf.	Limit(dBm)	Verdict
DL_1U_TM1_B_ANTA	-16	Pass
DL_1U_TM1_B_ANTB	-16	Pass
DL_1U_TM1_M_ANTA	-16	Pass
DL_1U_TM1_M_ANTB	-16	Pass
DL_1U_TM1_T_ANTA	-16	Pass



EUT Conf.	Limit(dBm)	Verdict
DL_1U_TM1_T_ANTB	-16	Pass
DL_2U_TM1_B_ANTA	-16	Pass
DL_2U_TM1_B_ANTB	-16	Pass
DL_2U_TM1_M_ANTA	-16	Pass
DL_2U_TM1_M_ANTB	-16	Pass
DL_2U_TM1_T_ANTA	-16	Pass
DL_2U_TM1_T_ANTB	-16	Pass

1.2.3 LTE system

EUT Conf.	Limit(dBm)	Verdict
DL_1L_1.4M_B_ANTA	-16	Pass
DL_1L_1.4M_B_ANTB	-16	Pass
DL_1L_1.4M_M_ANTA	-16	Pass
DL_1L_1.4M_M_ANTB	-16	Pass
DL_1L_1.4M_T_ANTA	-16	Pass
DL_1L_1.4M_T_ANTB	-16	Pass
DL_2L_1.4M_B_ANTA	-16	Pass
DL_2L_1.4M_B_ANTB	-16	Pass
DL_2L_1.4M_M_ANTA	-16	Pass
DL_2L_1.4M_M_ANTB	-16	Pass
DL_2L_1.4M_T_ANTA	-16	Pass
DL_2L_1.4M_T_ANTB	-16	Pass

1.3 Downlink Test Results (input signal +10dB with AGC activated)

1.3.1 GSM system

EUT Conf.	Limit(dBm)	Verdict
DL_2G_TM1_B_ANTA	-16	Pass
DL_2G_TM1_B_ANTB	-16	Pass
DL_2G_TM1_T_ANTA	-16	Pass
DL_2G_TM1_T_ANTB	-16	Pass

1.3.2 UMTS system

EUT Conf.	Limit(dBm)	Verdict
DL_2U_TM1_B_ANTA	-16	Pass
DL_2U_TM1_B_ANTB	-16	Pass
DL_2U_TM1_T_ANTA	-16	Pass
DL_2U_TM1_T_ANTB	-16	Pass

1.3.3 LTE system

EUT Conf.	Limit(dBm)	Verdict
DL_2L_1.4M_B_ANTA	-16	Pass
DL_2L_1.4M_B_ANTB	-16	Pass
DL_2L_1.4M_T_ANTA	-16	Pass
DL_2L_1.4M_T_ANTB	-16	Pass



2 Test Plot

2.1 Uplink Test Plots

Not applicable.

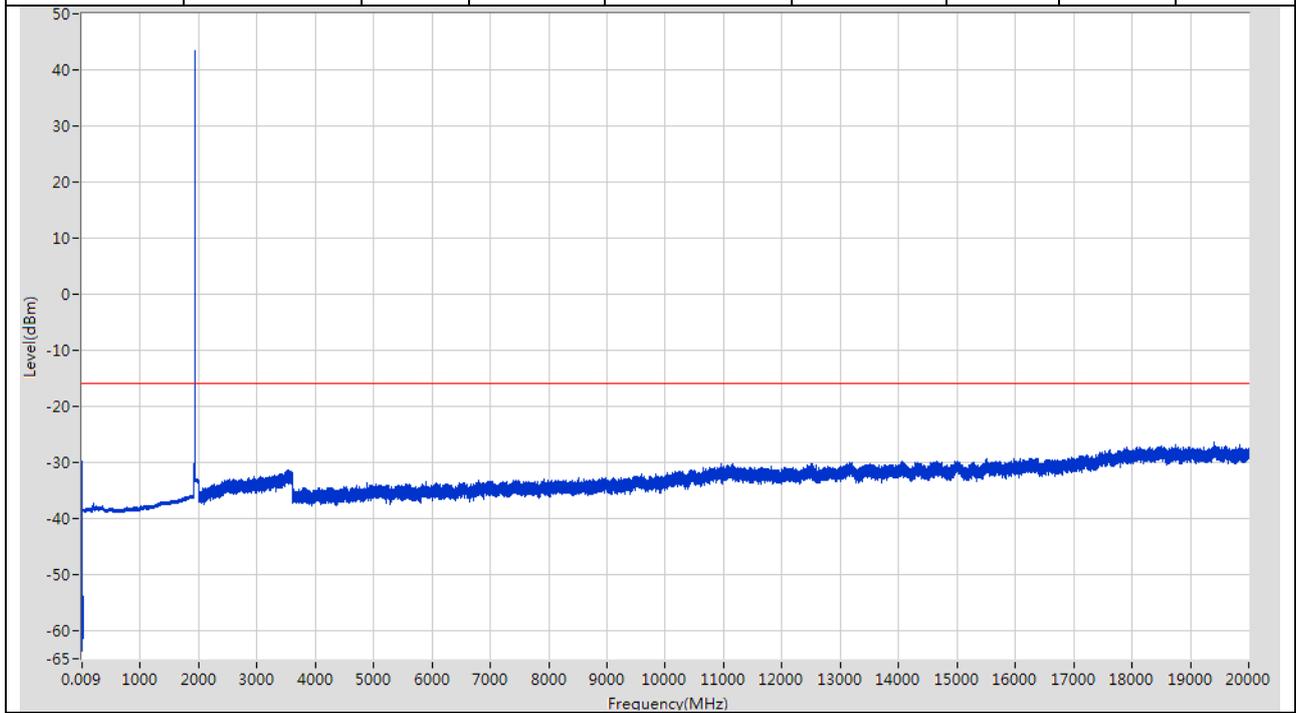
Notes: The EUT does not transmit over the air in the uplink direction.

2.2 Downlink Test Plots (without AGC activated)

2.2.1 GSM system

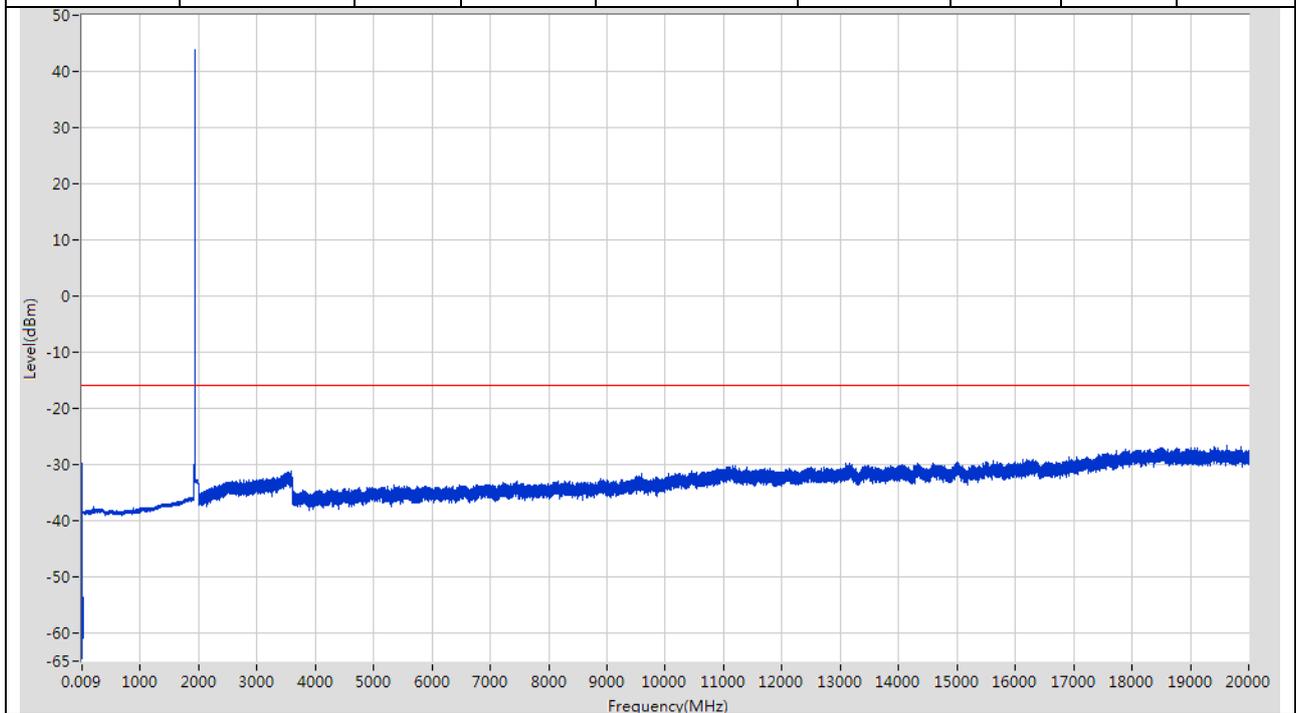
2.2.1.1 DL_1G_TM1_B_ANT

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	13.582 k	-44.57	-16	Pass	801
0.15	30	0.01	RMS	315.17 k	-29.68	-16	Pass	15001
30	1000	1	RMS	191.732653 M	-37.38	-16	Pass	4901
1000	2000	1	RMS	1930.4 M	43.41	-16	Pass	5001
2000	20000	1	RMS	19398.84008 M	-26.39	-16	Pass	90003



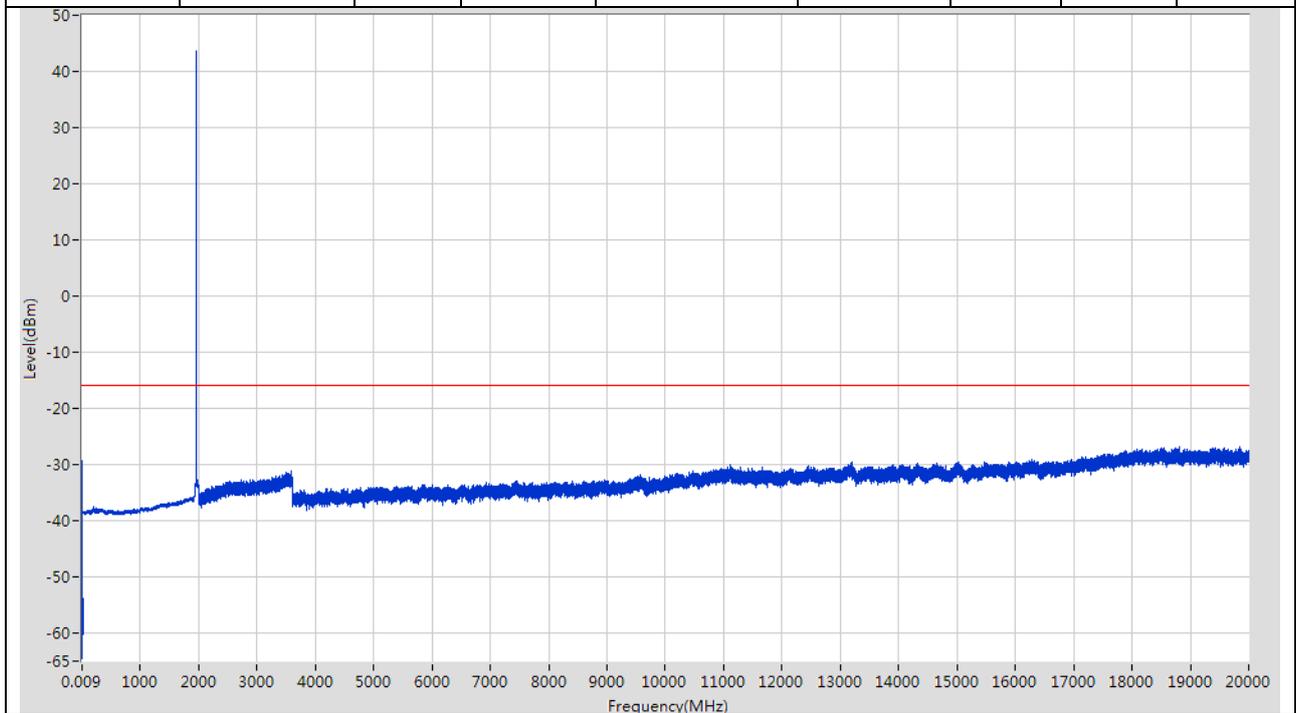
2.2.1.2 DL_1G_TM1_B_ANTB

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	10.41 k	-47.57	-16	Pass	801
0.15	30	0.01	RMS	315.17 k	-29.77	-16	Pass	15001
30	1000	1	RMS	192.920408 M	-37.39	-16	Pass	4901
1000	2000	1	RMS	1930.4 M	43.86	-16	Pass	5001
2000	20000	1	RMS	19615.225653 M	-26.63	-16	Pass	90003



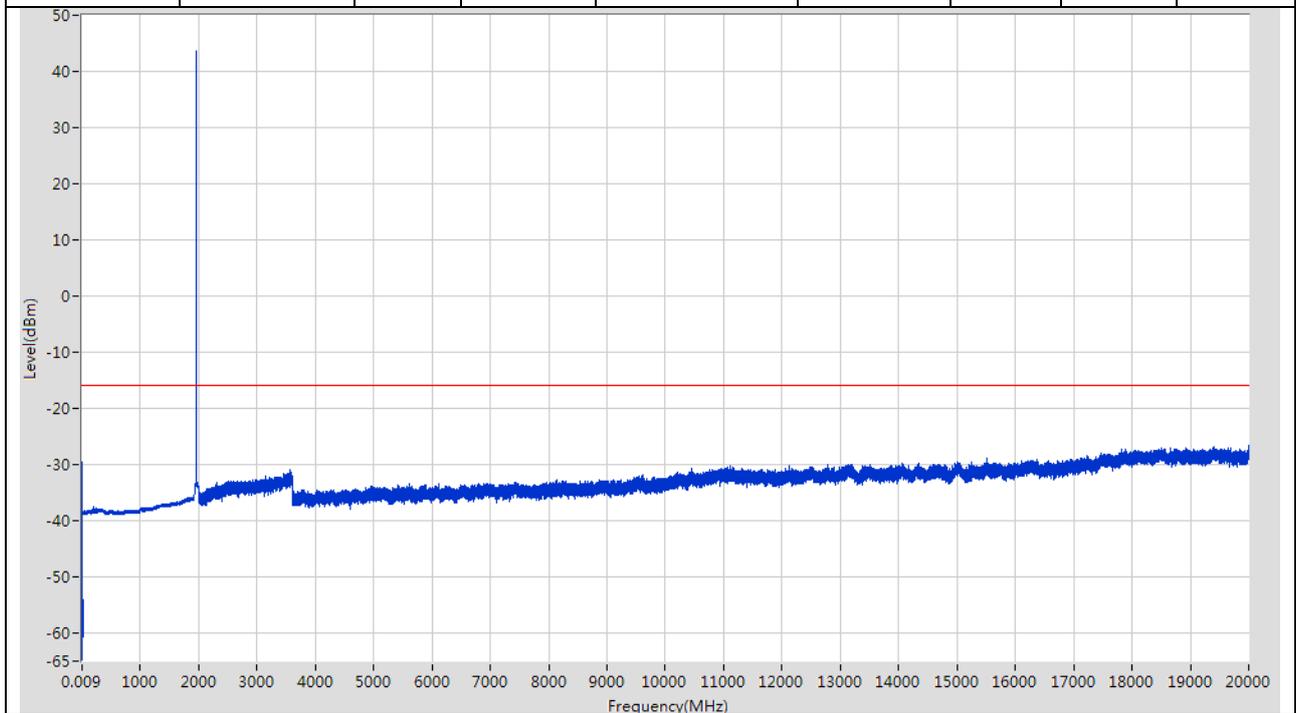
2.2.1.3 DL_1G_TM1_M_ANTA

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	-47.19	-16	Pass	801
0.15	30	0.01	RMS	315.17 k	-29.4	-16	Pass	15001
30	1000	1	RMS	191.732653 M	-37.52	-16	Pass	4901
1000	2000	1	RMS	1960.2 M	43.56	-16	Pass	5001
2000	20000	1	RMS	19855.009667 M	-26.91	-16	Pass	90003



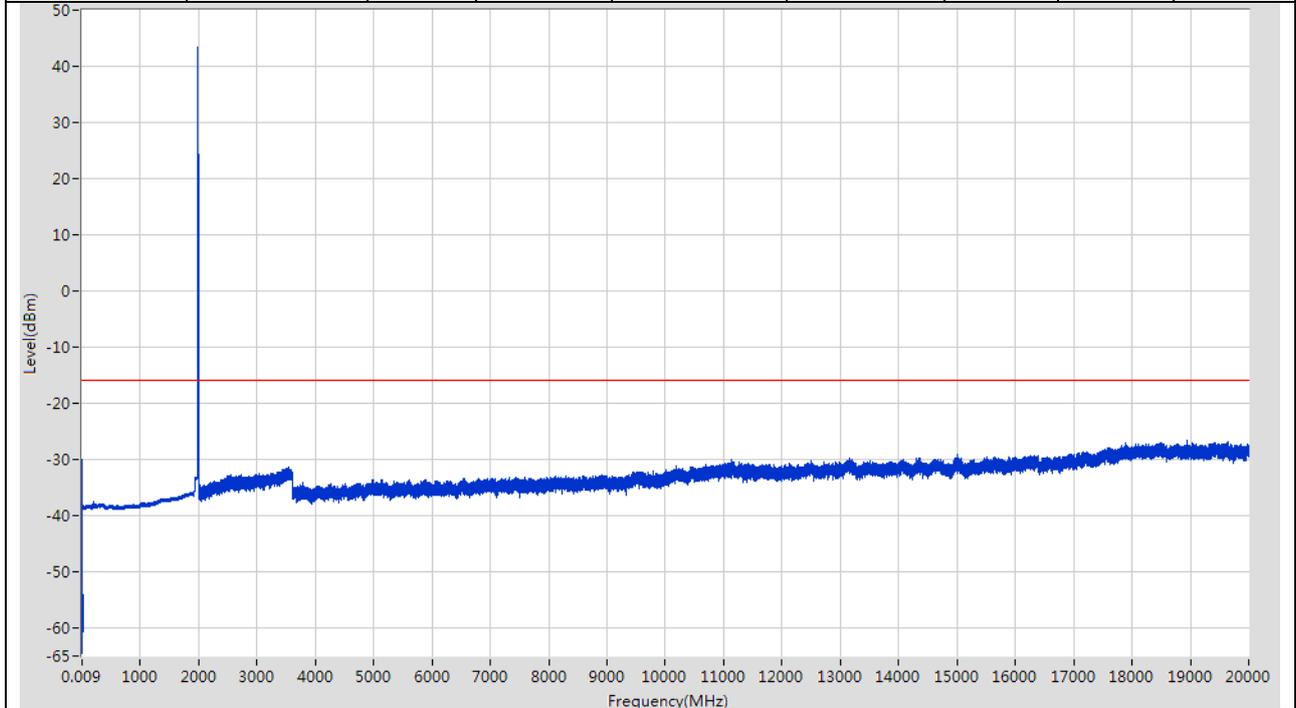
2.2.1.4 DL_1G_TM1_M_ANTB

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	11.82 k	-47.25	-16	Pass	801
0.15	30	0.01	RMS	315.17 k	-29.49	-16	Pass	15001
30	1000	1	RMS	191.534694 M	-37.48	-16	Pass	4901
1000	2000	1	RMS	1960 M	43.55	-16	Pass	5001
2000	20000	1	RMS	19998.000133 M	-26.57	-16	Pass	90003



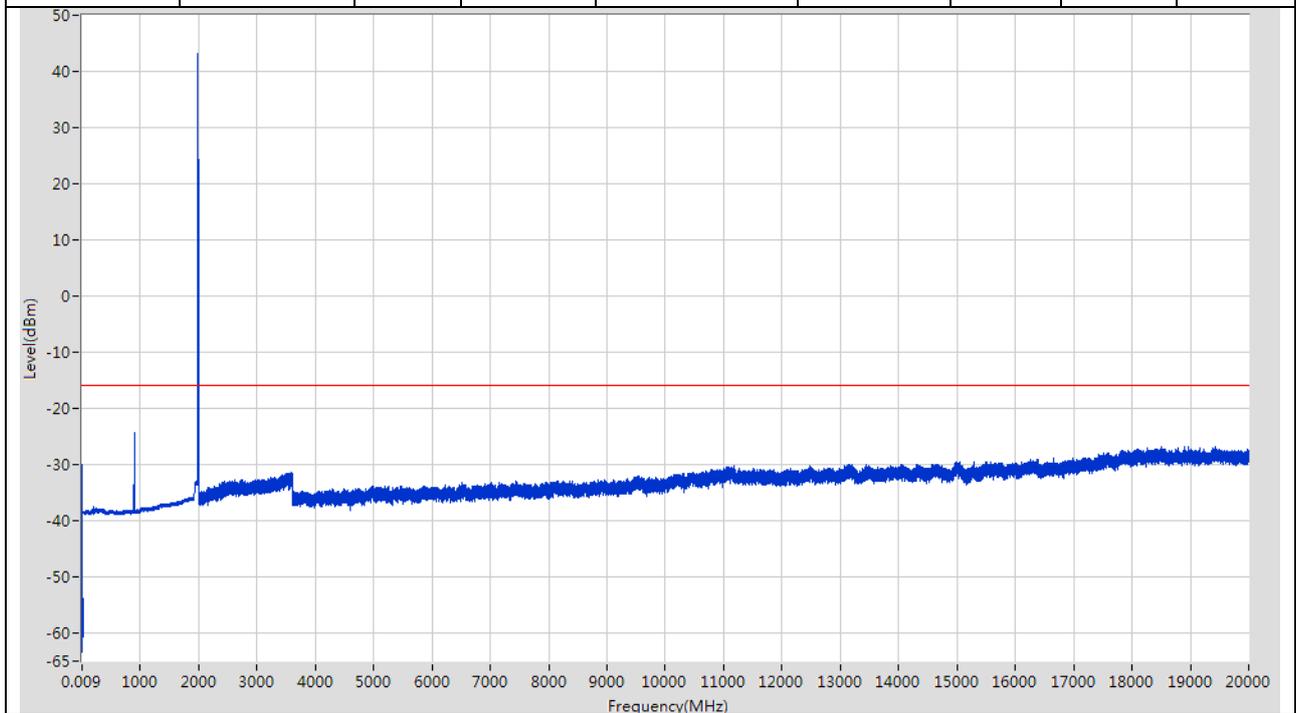
2.2.1.5 DL_1G_TM1_T_ANTA

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	11.996 k	-48.82	-16	Pass	801
0.15	30	0.01	RMS	315.17 k	-29.92	-16	Pass	15001
30	1000	1	RMS	191.138776 M	-37.45	-16	Pass	4901
1000	2000	1	RMS	1989.6 M	43.37	-16	Pass	5001
2000	20000	1	RMS	18953.0698 M	-26.66	-16	Pass	90003



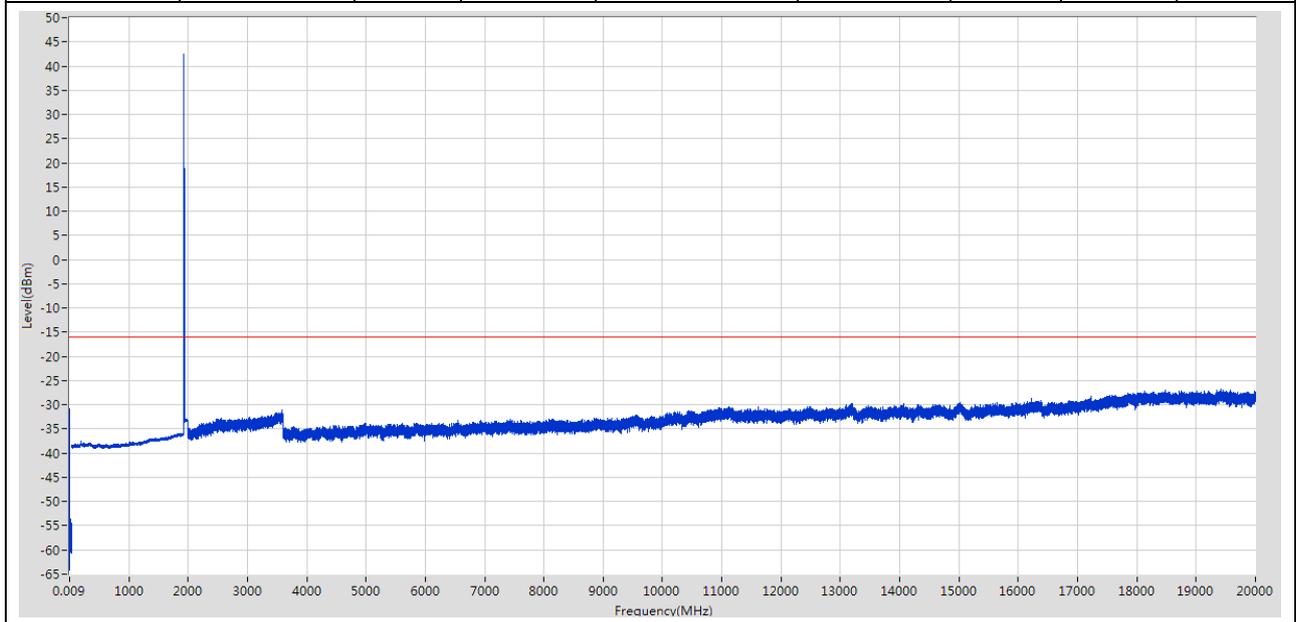
2.2.1.6 DL_1G_TM1_T_ANTB

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	10.234 k	-47.69	-16	Pass	801
0.15	30	0.01	RMS	315.17 k	-30.11	-16	Pass	15001
30	1000	1	RMS	903.593878 M	-24.34	-16	Pass	4901
1000	2000	1	RMS	1989.6 M	43.21	-16	Pass	5001
2000	20000	1	RMS	18957.069533 M	-26.83	-16	Pass	90003



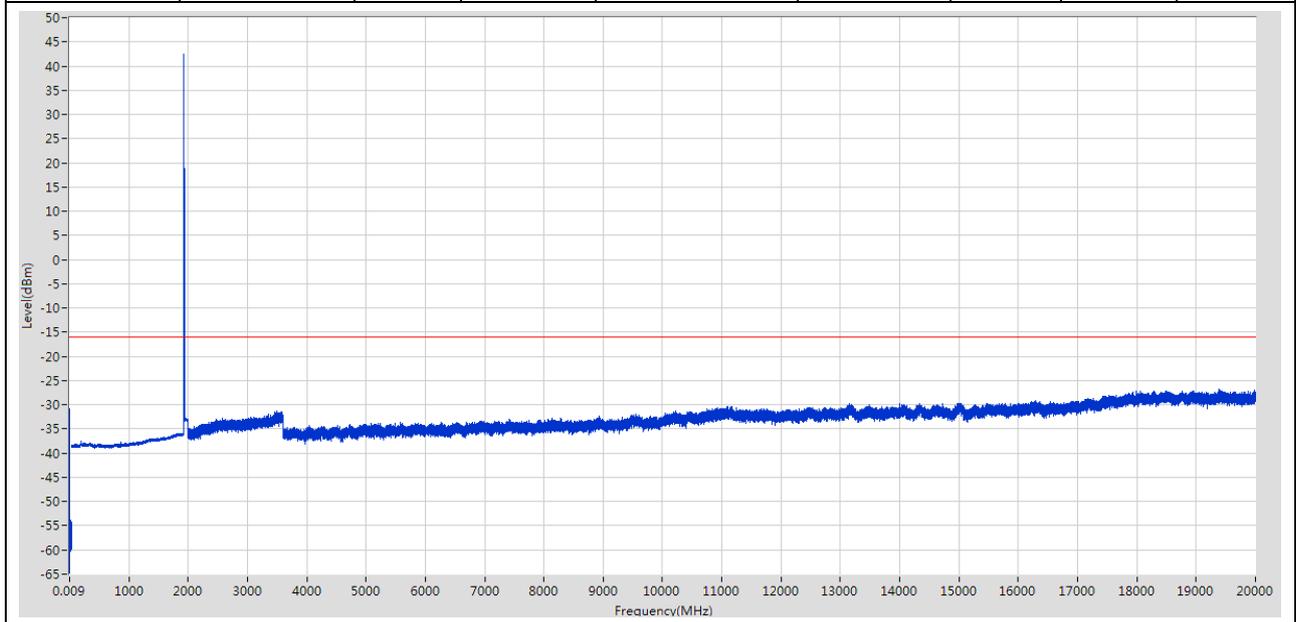
2.2.1.7 DL_2G_TM1_B_ANTA

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	10.586 k	-46.43	-16	Pass	801
0.15	30	0.01	RMS	599.74 k	-30.93	-16	Pass	15001
30	1000	1	RMS	192.128571 M	-37.5	-16	Pass	4901
1000	2000	1	RMS	1930.8 M	42.51	-16	Pass	5001
2000	20000	1	RMS	19424.238387 M	-26.72	-16	Pass	90003



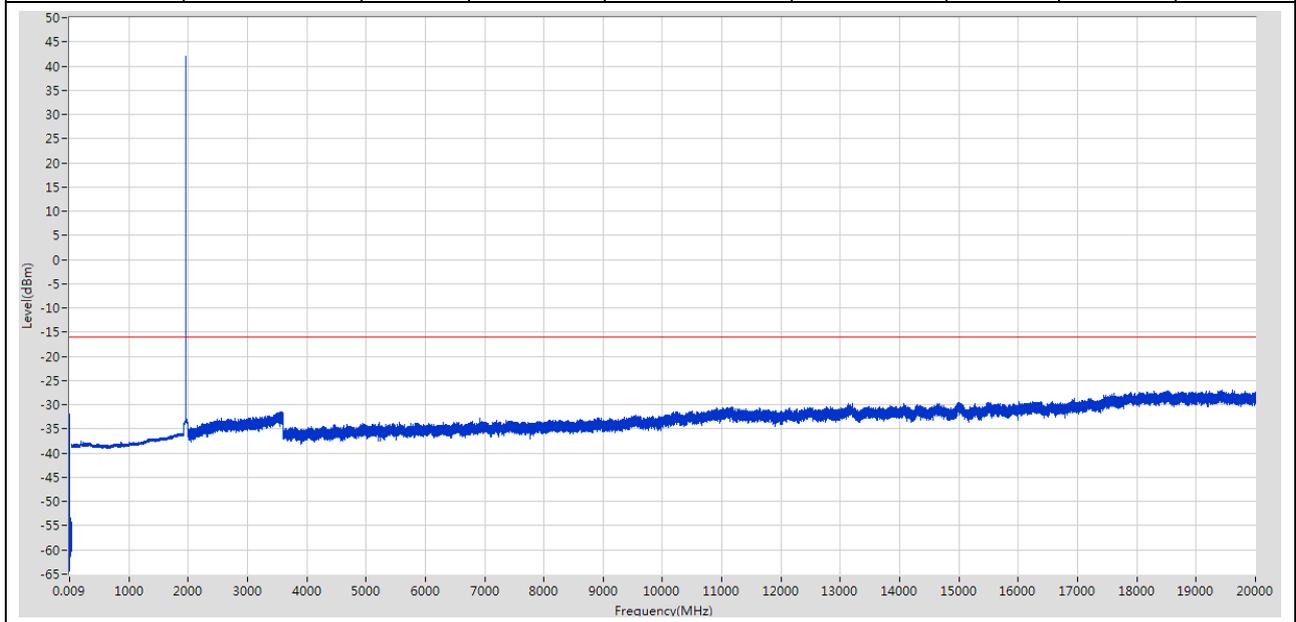
2.2.1.8 DL_2G_TM1_B_ANTB

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	11.996 k	-45.77	-16	Pass	801
0.15	30	0.01	RMS	599.74 k	-30.93	-16	Pass	15001
30	1000	1	RMS	192.722449 M	-37.52	-16	Pass	4901
1000	2000	1	RMS	1930.8 M	42.55	-16	Pass	5001
2000	20000	1	RMS	19387.240853 M	-26.84	-16	Pass	90003



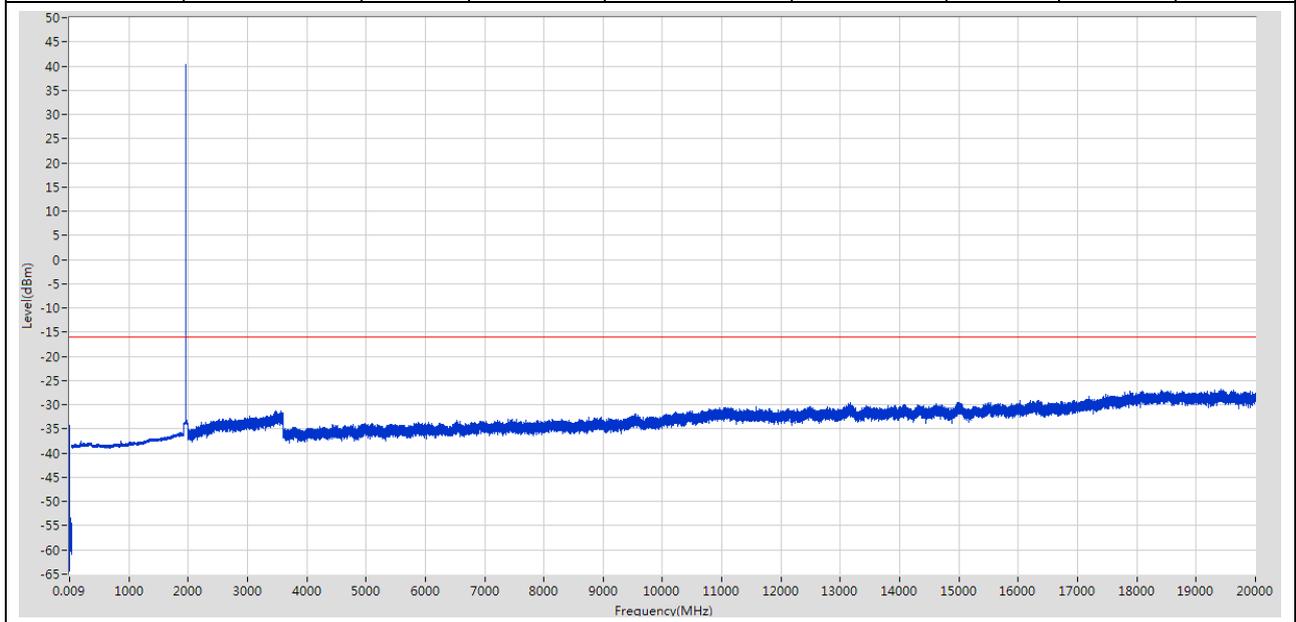
2.2.1.9 DL_2G_TM1_M_ANTA

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	9.176 k	-47.39	-16	Pass	801
0.15	30	0.01	RMS	599.74 k	-32	-16	Pass	15001
30	1000	1	RMS	192.52449 M	-37.57	-16	Pass	4901
1000	2000	1	RMS	1960 M	42.07	-16	Pass	5001
2000	20000	1	RMS	19606.42624 M	-26.9	-16	Pass	90003



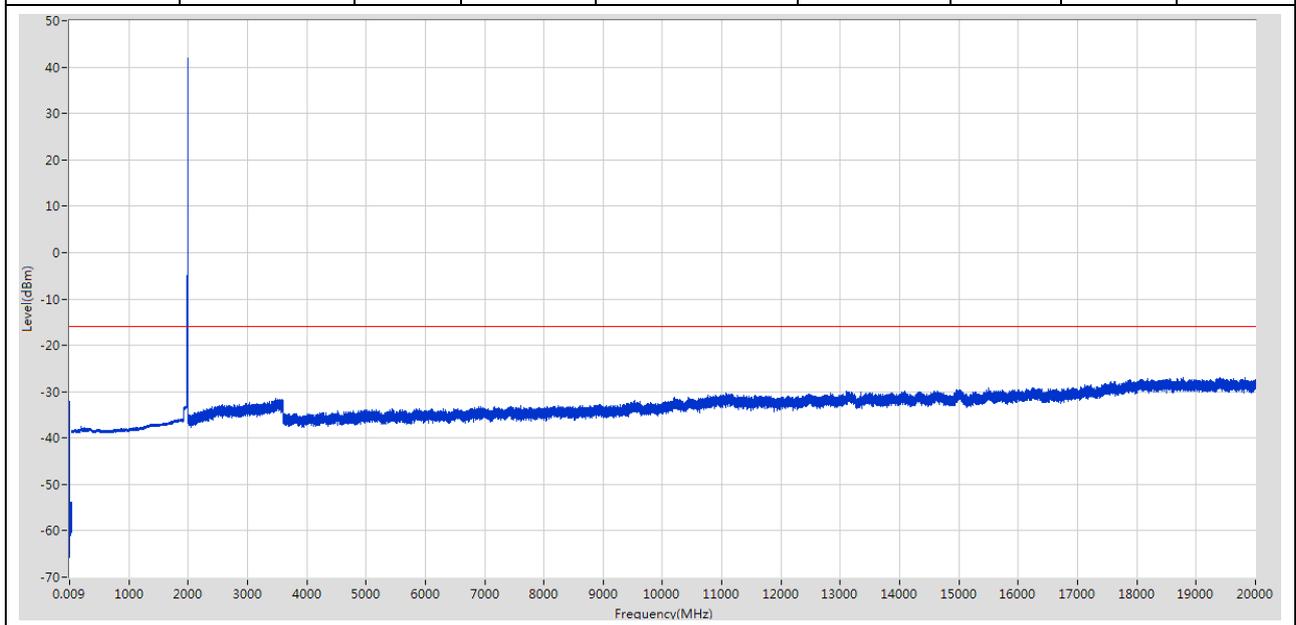
2.2.1.10 DL_2G_TM1_M_ANTB

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	12.172 k	-48.1	-16	Pass	801
0.15	30	0.01	RMS	157.96 k	-34.32	-16	Pass	15001
30	1000	1	RMS	192.920408 M	-37.39	-16	Pass	4901
1000	2000	1	RMS	1960 M	40.3	-16	Pass	5001
2000	20000	1	RMS	19416.23892 M	-26.79	-16	Pass	90003



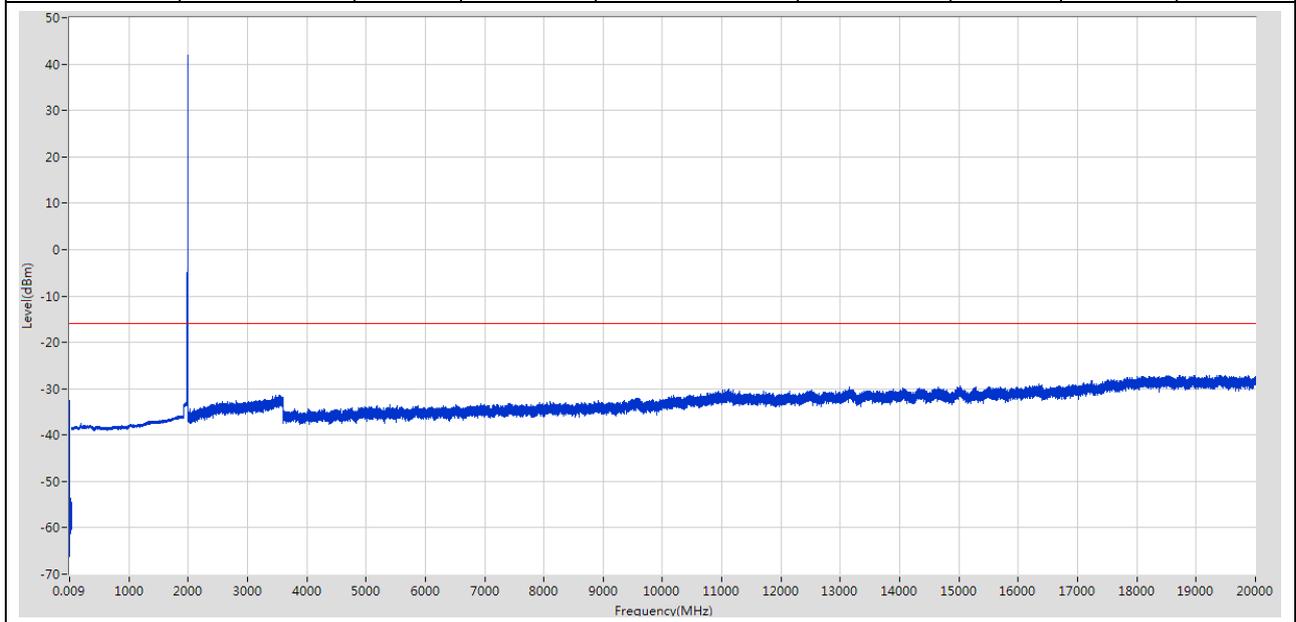
2.2.1.11 DL_2G_TM1_T_ANTA

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	10.586 k	-48.4	-16	Pass	801
0.15	30	0.01	RMS	597.75 k	-32.11	-16	Pass	15001
30	1000	1	RMS	192.326531 M	-37.49	-16	Pass	4901
1000	2000	1	RMS	1989.4 M	41.9	-16	Pass	5001
2000	20000	1	RMS	19407.639493 M	-26.87	-16	Pass	90003



2.2.1.12 DL_2G_TM1_T_ANTB

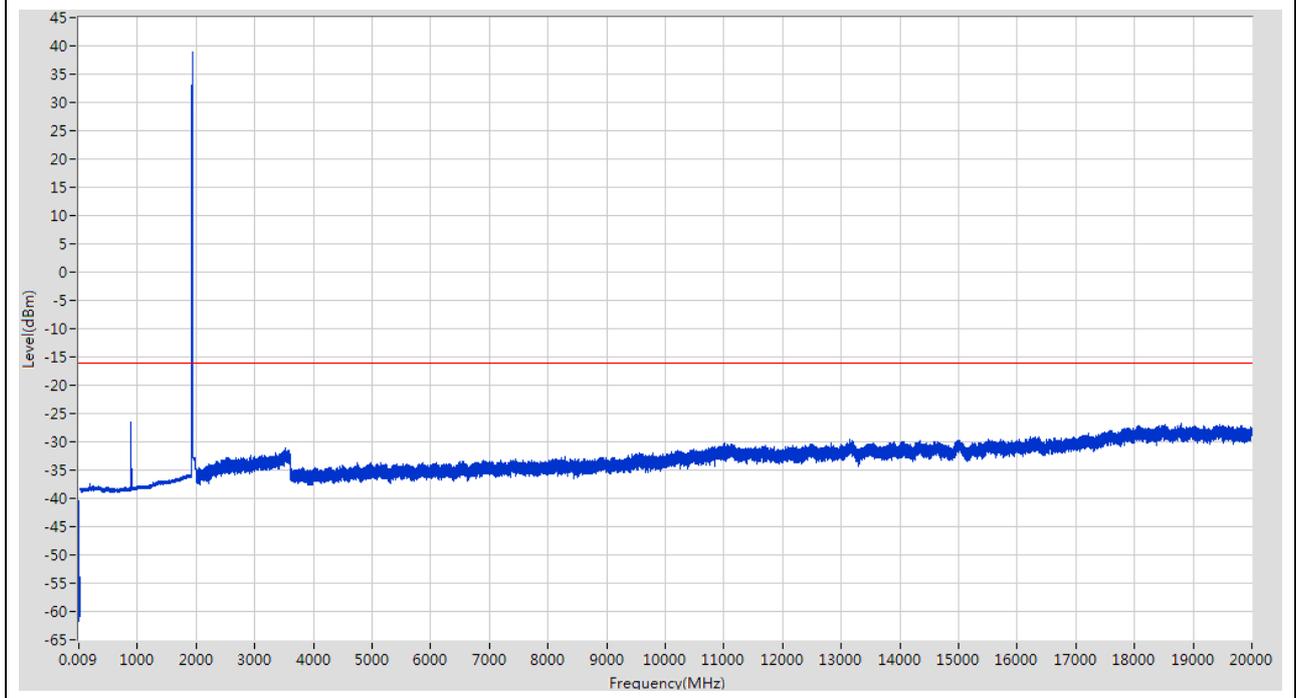
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	10.586 k	-46.87	-16	Pass	801
0.15	30	0.01	RMS	597.75 k	-32.51	-16	Pass	15001
30	1000	1	RMS	192.52449 M	-37.43	-16	Pass	4901
1000	2000	1	RMS	1989.4 M	41.94	-16	Pass	5001
2000	20000	1	RMS	18733.084467 M	-27.05	-16	Pass	90003



2.2.2 UMTS system

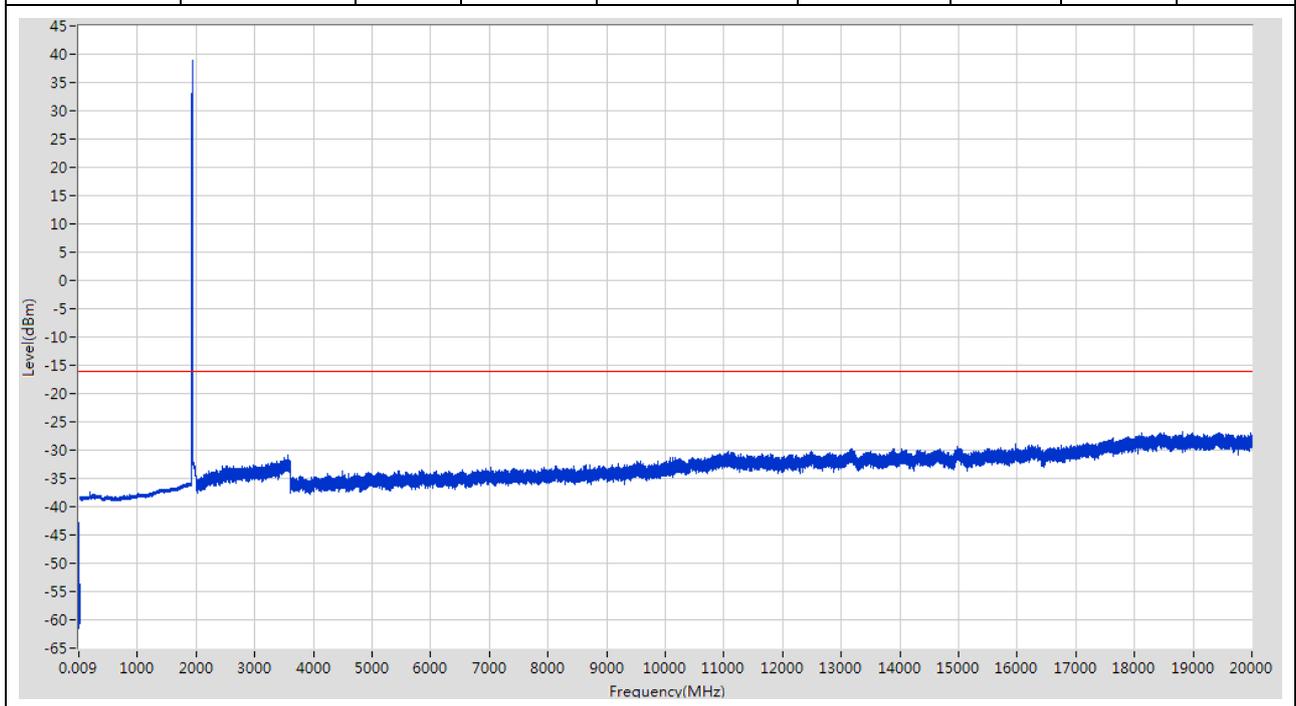
2.2.2.1 DL_1U_TM1_B_ANTA

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	9.176 k	-45.68	-16	Pass	801
0.15	30	0.01	RMS	317.16 k	-40.41	-16	Pass	15001
30	1000	1	RMS	893.497959 M	-26.54	-16	Pass	4901
1000	2000	1	RMS	1932.6 M	38.82	-16	Pass	5001
2000	20000	1	RMS	18791.68056 M	-26.78	-16	Pass	90003



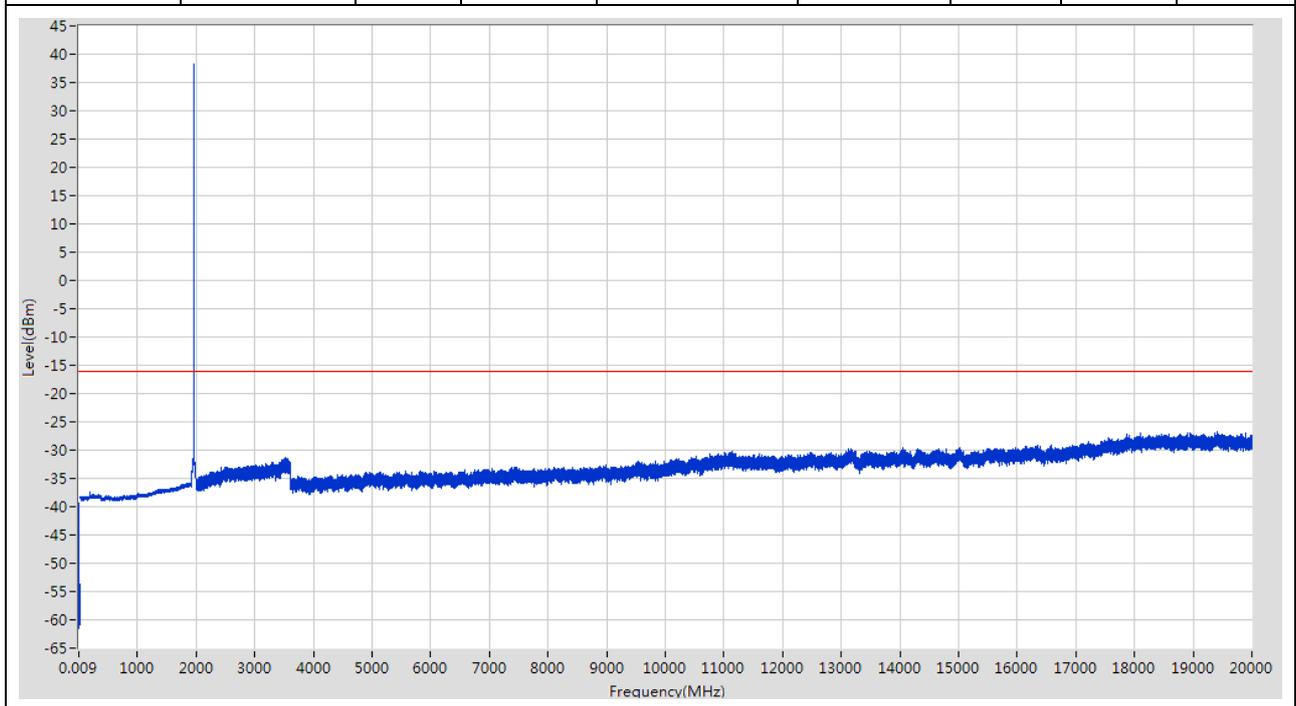
2.2.2.2 DL_1U_TM1_B_ANTB

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	9.176 k	-46.16	-16	Pass	801
0.15	30	0.01	RMS	161.94 k	-42.77	-16	Pass	15001
30	1000	1	RMS	193.514286 M	-37.45	-16	Pass	4901
1000	2000	1	RMS	1932.4 M	38.97	-16	Pass	5001
2000	20000	1	RMS	18808.079467 M	-26.69	-16	Pass	90003



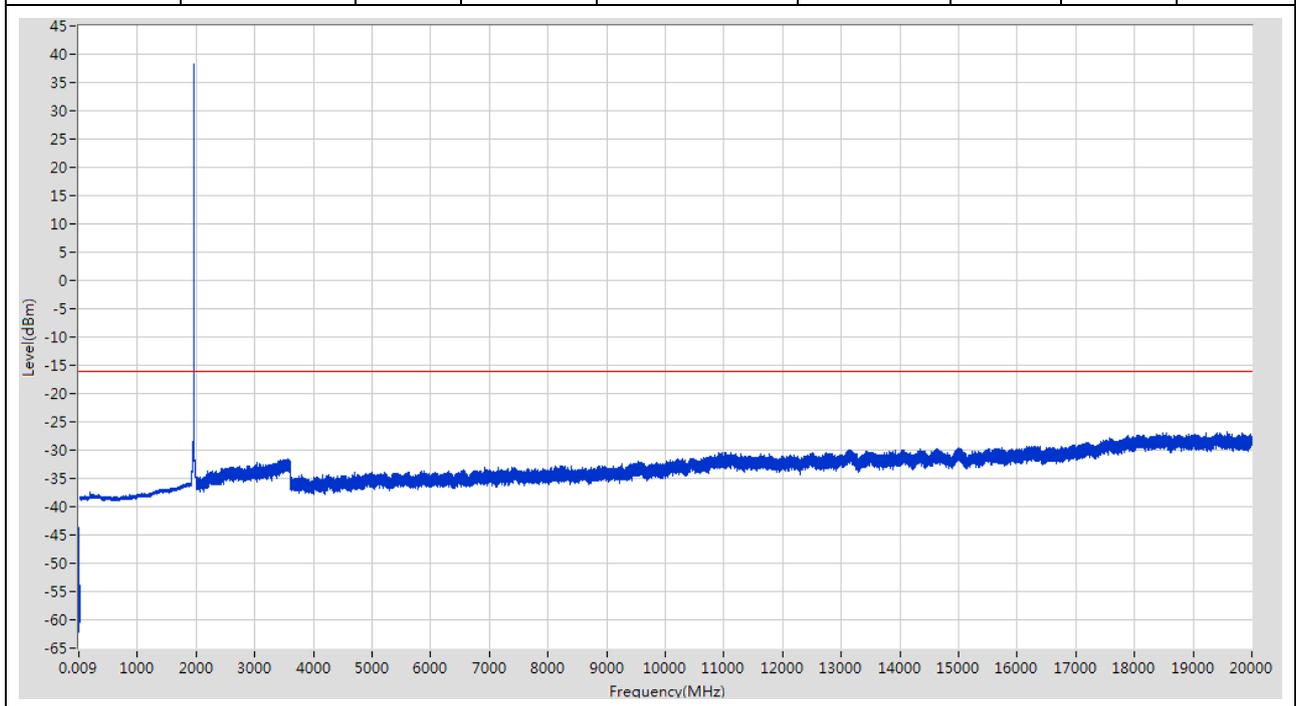
2.2.2.3 DL_1U_TM1_M_ANTA

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	12.877 k	-48.21	-16	Pass	801
0.15	30	0.01	RMS	317.16 k	-39.45	-16	Pass	15001
30	1000	1	RMS	193.712245 M	-37.47	-16	Pass	4901
1000	2000	1	RMS	1960.2 M	38.35	-16	Pass	5001
2000	20000	1	RMS	19400.239987 M	-26.83	-16	Pass	90003



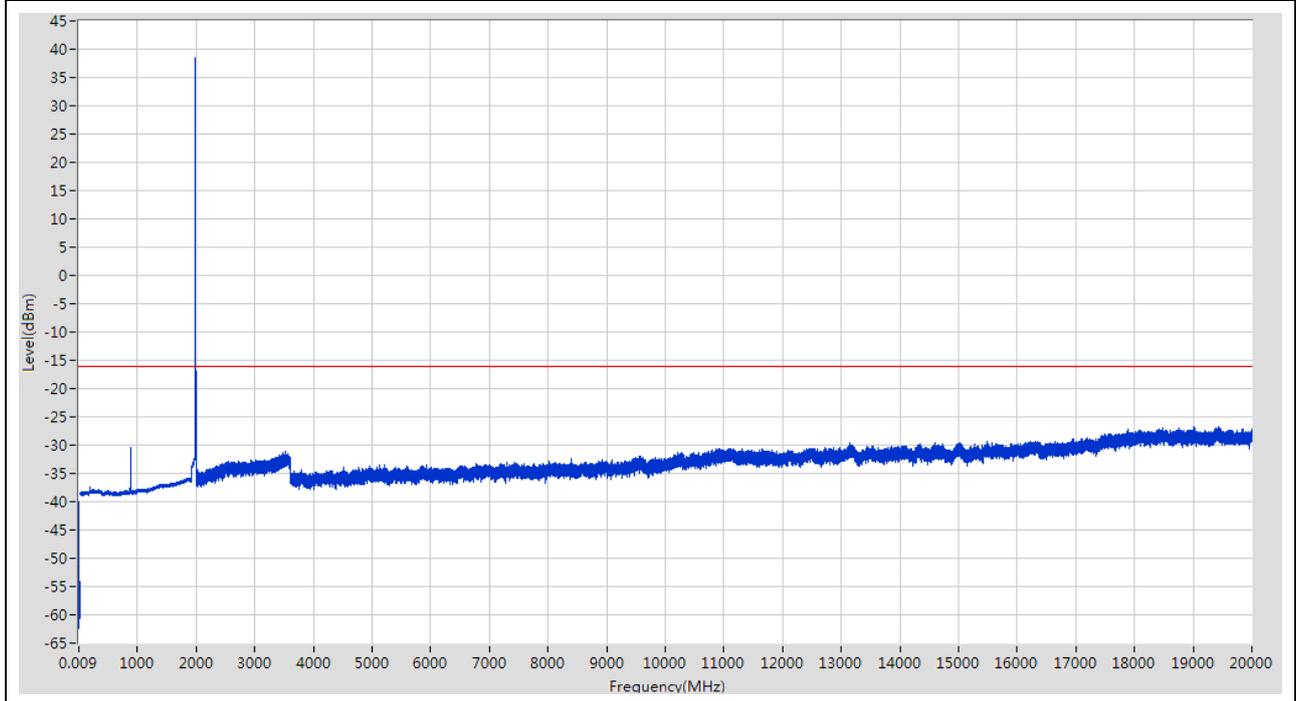
2.2.2.4 DL_1U_TM1_M_ANTB

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	9.176 k	-47	-16	Pass	801
0.15	30	0.01	RMS	155.97 k	-43.78	-16	Pass	15001
30	1000	1	RMS	191.732653 M	-37.43	-16	Pass	4901
1000	2000	1	RMS	1960 M	38.21	-16	Pass	5001
2000	20000	1	RMS	19585.027667 M	-26.76	-16	Pass	90003



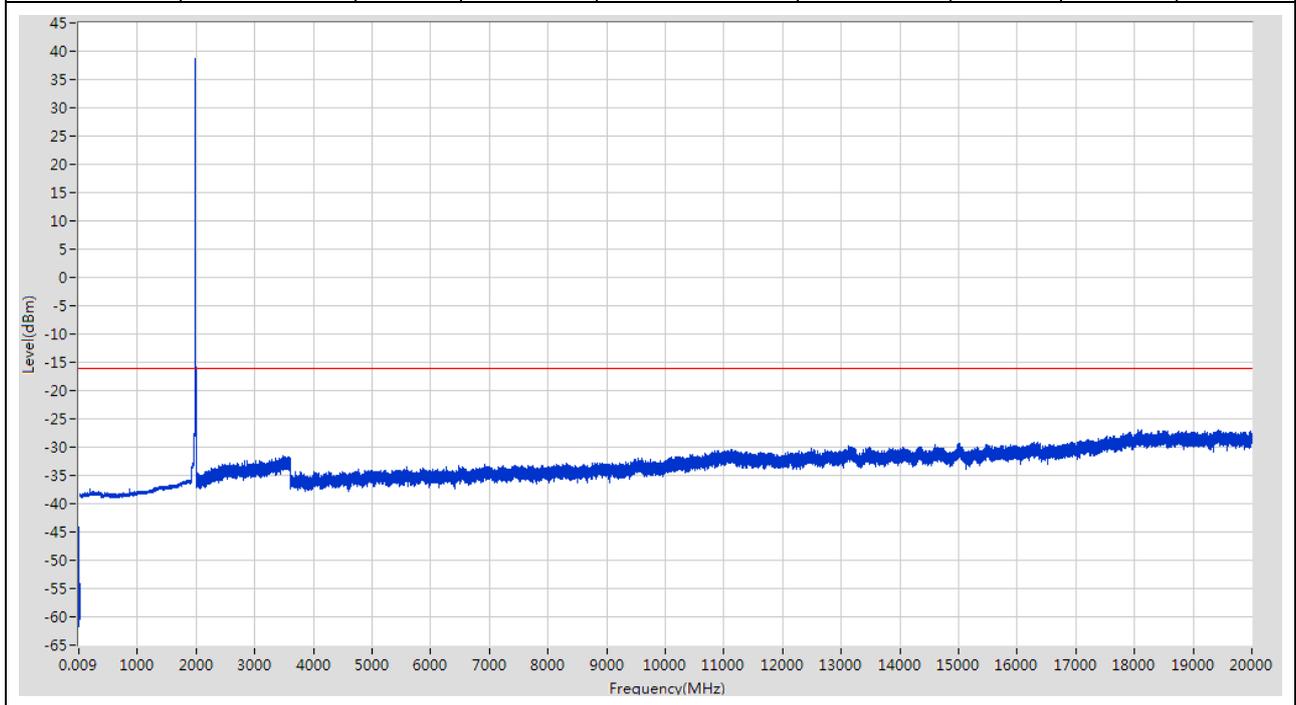
2.2.2.5 DL_1U_TM1_T_ANTA

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	10.234 k	-47.32	-16	Pass	801
0.15	30	0.01	RMS	313.18 k	-40.06	-16	Pass	15001
30	1000	1	RMS	893.102041 M	-30.46	-16	Pass	4901
1000	2000	1	RMS	1987.4 M	38.53	-16	Pass	5001
2000	20000	1	RMS	19422.83848 M	-26.69	-16	Pass	90003



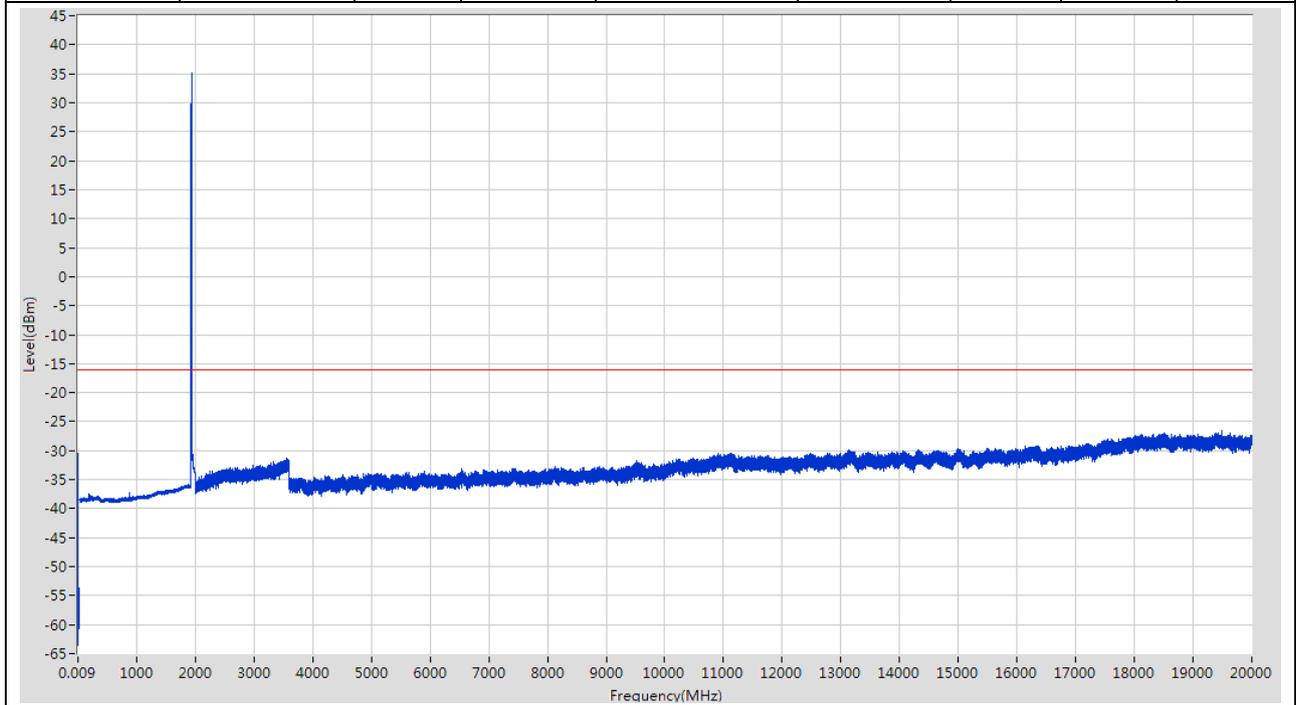
2.2.2.6 DL_1U_TM1_T_ANTB

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	9.176 k	-46.71	-16	Pass	801
0.15	30	0.01	RMS	153.98 k	-44.08	-16	Pass	15001
30	1000	1	RMS	871.326531 M	-37.4	-16	Pass	4901
1000	2000	1	RMS	1987.6 M	38.71	-16	Pass	5001
2000	20000	1	RMS	19439.837347 M	-26.97	-16	Pass	90003



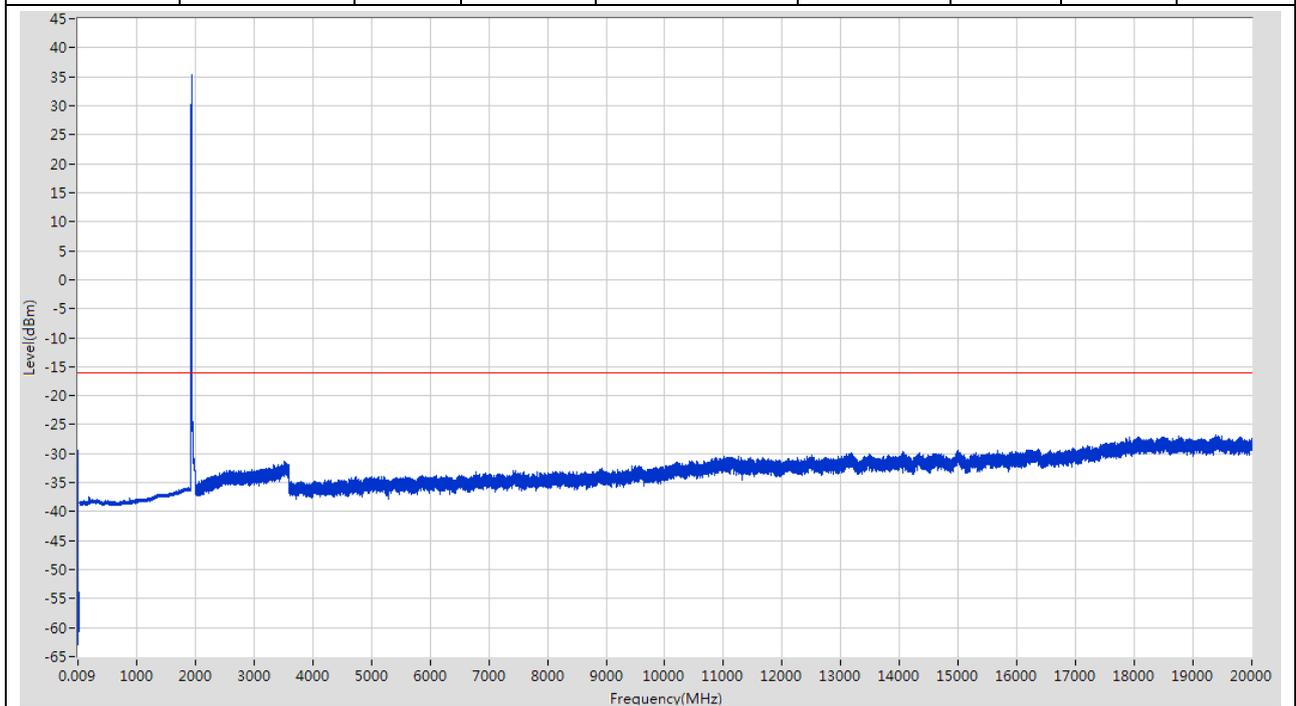
2.2.2.7 DL_2U_TM1_B_ANTA

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	12.172 k	-48.24	-16	Pass	801
0.15	30	0.01	RMS	315.17 k	-30.42	-16	Pass	15001
30	1000	1	RMS	871.722449 M	-37.25	-16	Pass	4901
1000	2000	1	RMS	1938.4 M	35.04	-16	Pass	5001
2000	20000	1	RMS	19484.834347 M	-26.53	-16	Pass	90003



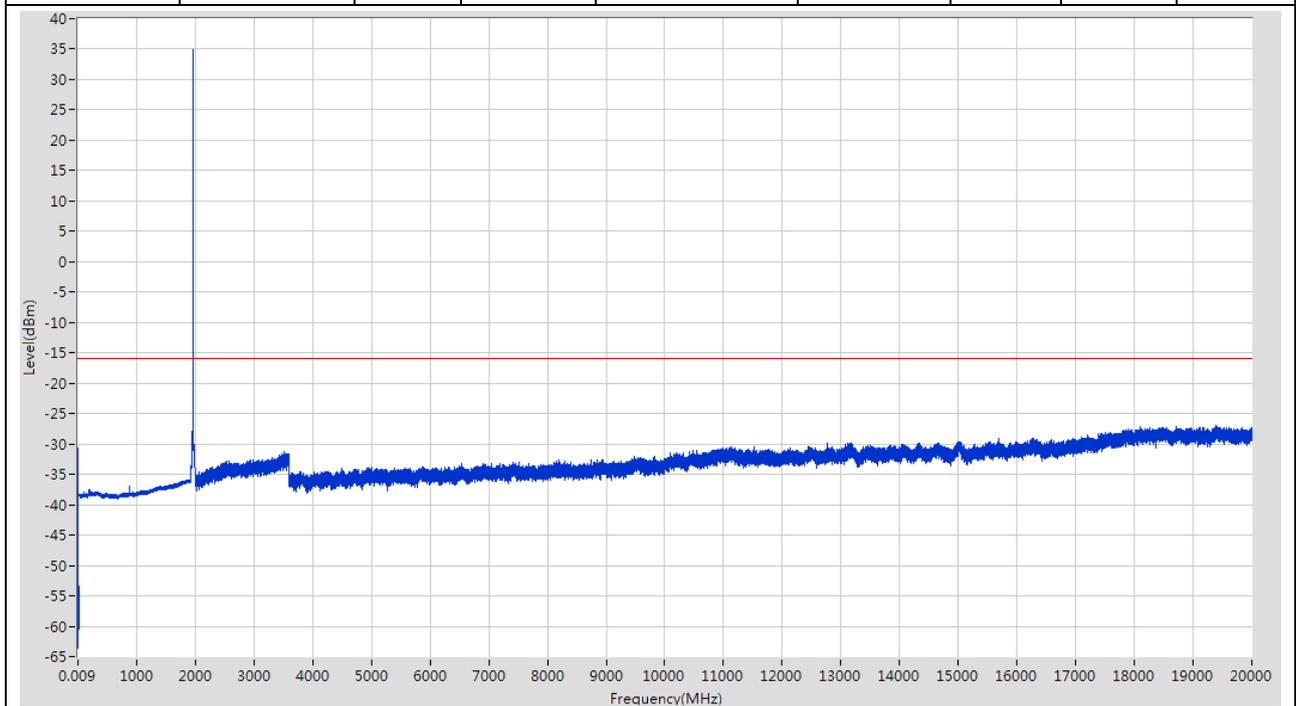
2.2.2.8 DL_2U_TM1_B_ANTB

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	10.41 k	-47.25	-16	Pass	801
0.15	30	0.01	RMS	315.17 k	-29.42	-16	Pass	15001
30	1000	1	RMS	193.712245 M	-37.52	-16	Pass	4901
1000	2000	1	RMS	1938.2 M	35.29	-16	Pass	5001
2000	20000	1	RMS	19390.040667 M	-26.75	-16	Pass	90003



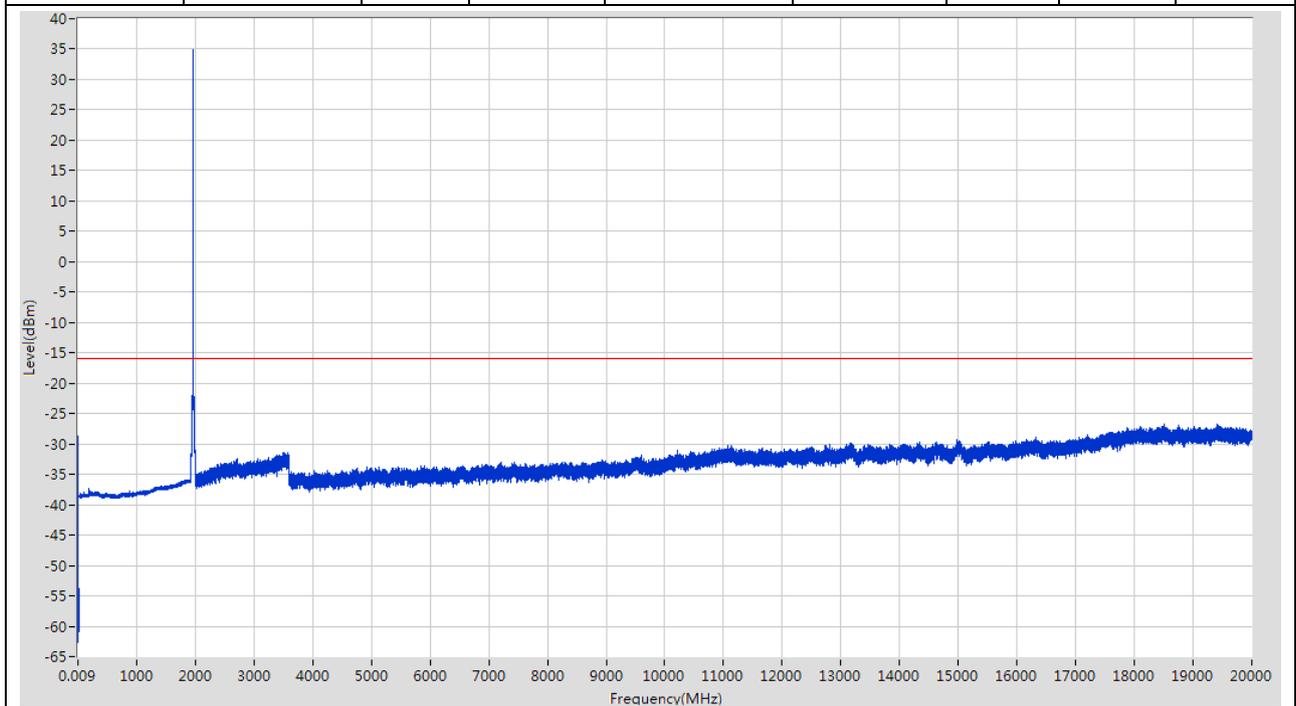
2.2.2.9 DL_2U_TM1_M_ANTA

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	9.529 k	-47.44	-16	Pass	801
0.15	30	0.01	RMS	315.17 k	-30.65	-16	Pass	15001
30	1000	1	RMS	871.128571 M	-36.94	-16	Pass	4901
1000	2000	1	RMS	1963 M	34.94	-16	Pass	5001
2000	20000	1	RMS	19394.840347 M	-26.97	-16	Pass	90003



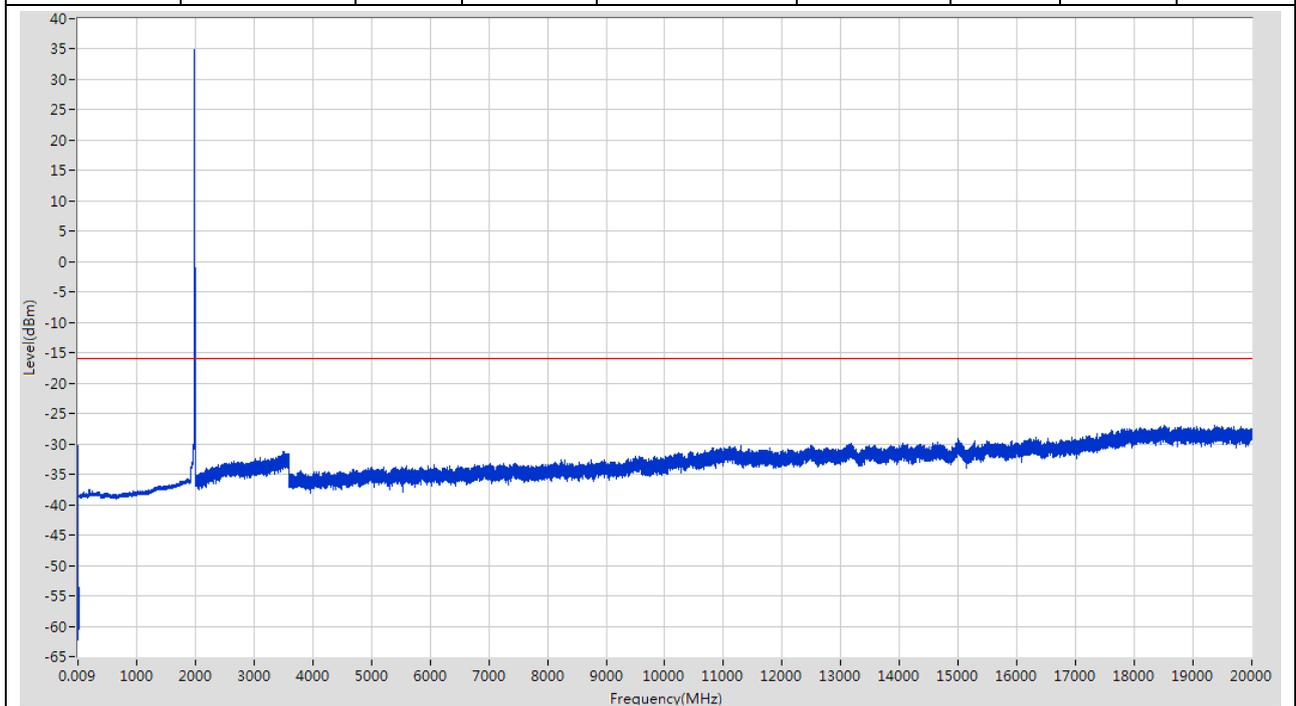
2.2.2.10 DL_2U_TM1_M_ANTB

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	10.41 k	-48.28	-16	Pass	801
0.15	30	0.01	RMS	315.17 k	-28.76	-16	Pass	15001
30	1000	1	RMS	192.722449 M	-37.4	-16	Pass	4901
1000	2000	1	RMS	1963.2 M	34.94	-16	Pass	5001
2000	20000	1	RMS	18506.69956 M	-26.75	-16	Pass	90003



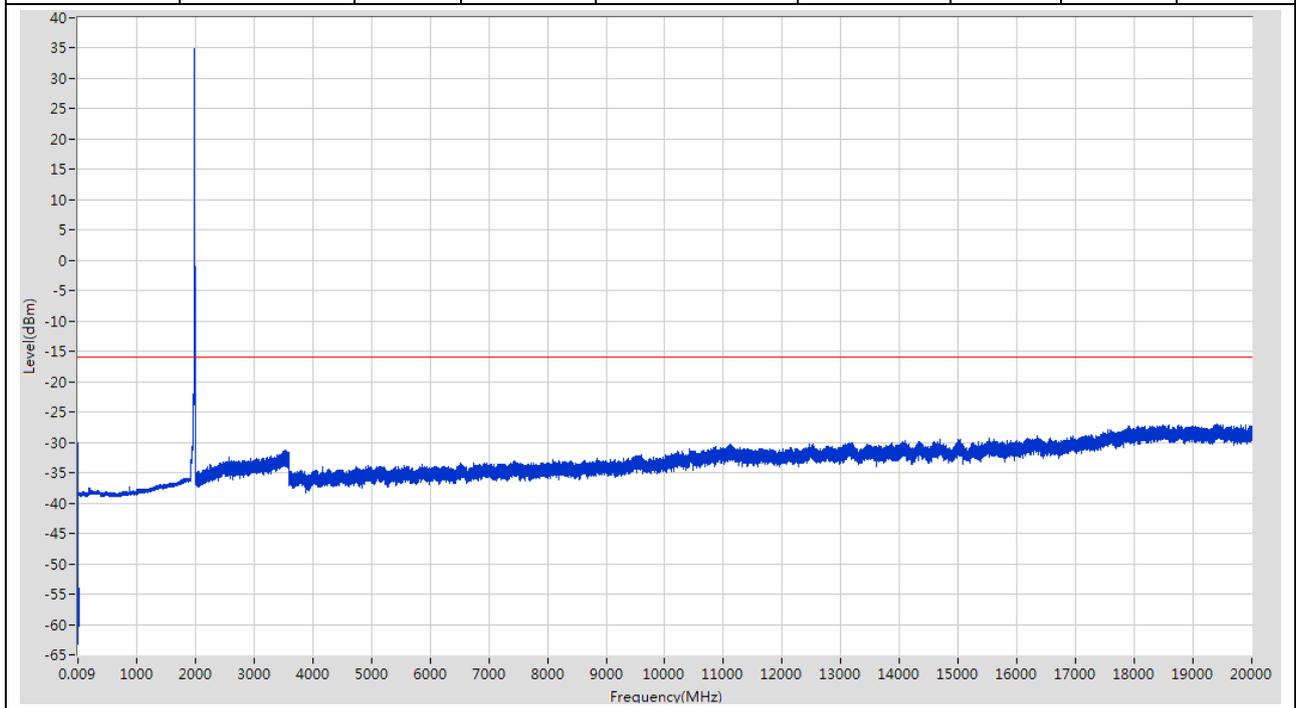
2.2.2.11 DL_2U_TM1_T_ANTA

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	9.529 k	-47.28	-16	Pass	801
0.15	30	0.01	RMS	315.17 k	-30.25	-16	Pass	15001
30	1000	1	RMS	192.52449 M	-37.44	-16	Pass	4901
1000	2000	1	RMS	1982.6 M	34.86	-16	Pass	5001
2000	20000	1	RMS	18511.899213 M	-26.94	-16	Pass	90003



2.2.2.12 DL_2U_TM1_T_ANTB

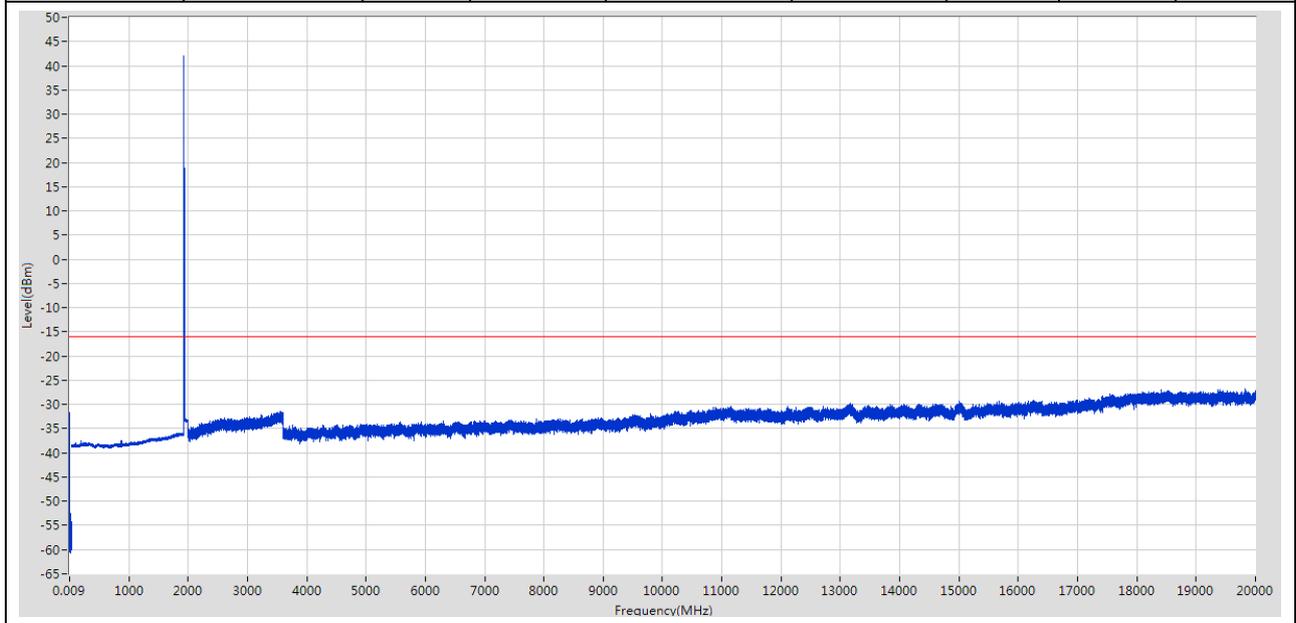
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	9.176 k	-48.3	-16	Pass	801
0.15	30	0.01	RMS	315.17 k	-30.01	-16	Pass	15001
30	1000	1	RMS	870.534694 M	-37.4	-16	Pass	4901
1000	2000	1	RMS	1987.6 M	34.92	-16	Pass	5001
2000	20000	1	RMS	19398.440107 M	-26.89	-16	Pass	90003



2.2.3 LTE system

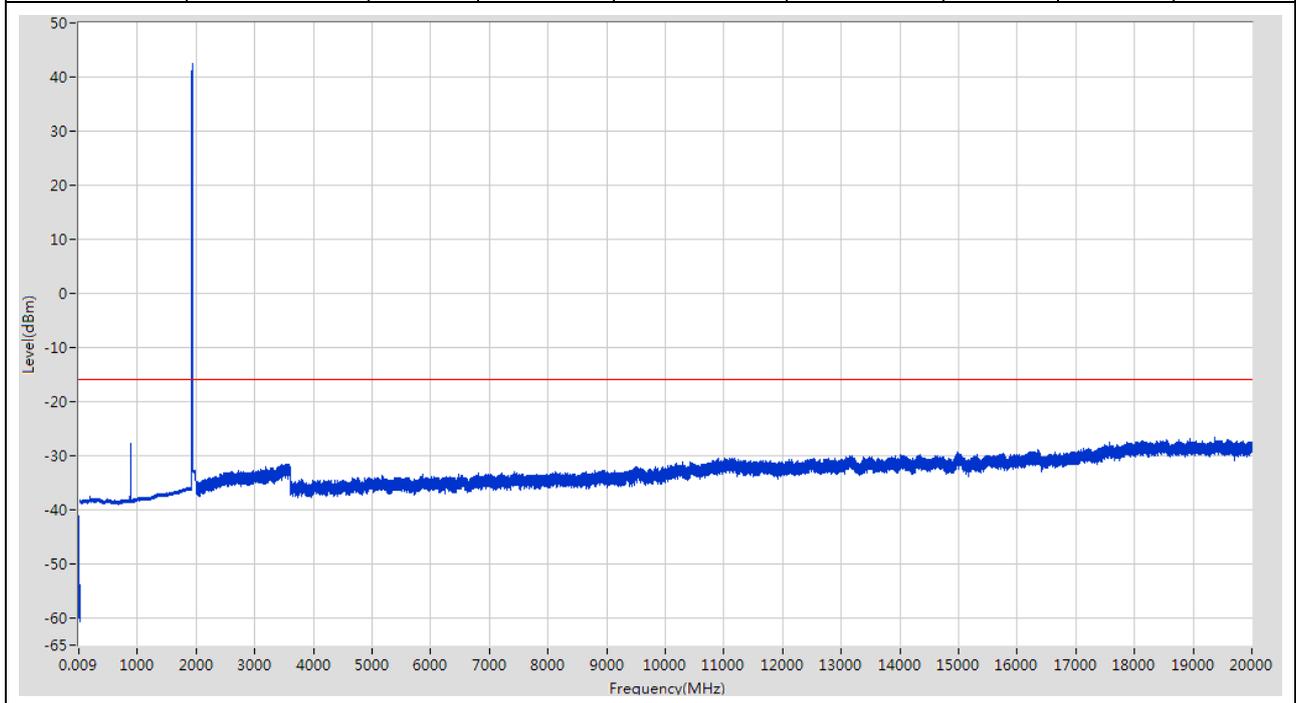
2.2.3.1 DL_1L_1.4M_B_ANT

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	78.971 k	-46.73	-16	Pass	801
0.15	30	0.01	RMS	157.96 k	-31.58	-16	Pass	15001
30	1000	1	RMS	871.52449 M	-37.5	-16	Pass	4901
1000	2000	1	RMS	1930.8 M	42.14	-16	Pass	5001
2000	20000	1	RMS	19831.41124 M	-26.75	-16	Pass	90003



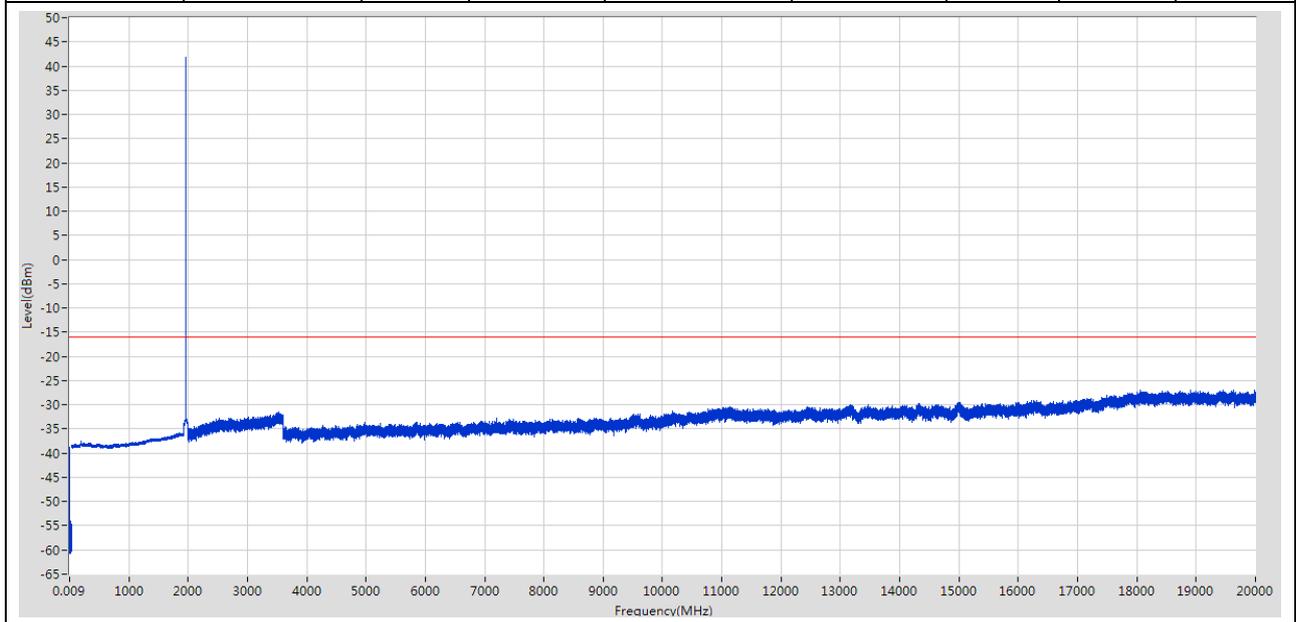
2.2.3.2 DL_1L_1.4M_B_ANTB

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	10.762 k	-46.22	-16	Pass	801
0.15	30	0.01	RMS	157.96 k	-41.21	-16	Pass	15001
30	1000	1	RMS	892.112245 M	-27.62	-16	Pass	4901
1000	2000	1	RMS	1930.8 M	42.56	-16	Pass	5001
2000	20000	1	RMS	19370.042 M	-26.63	-16	Pass	90003



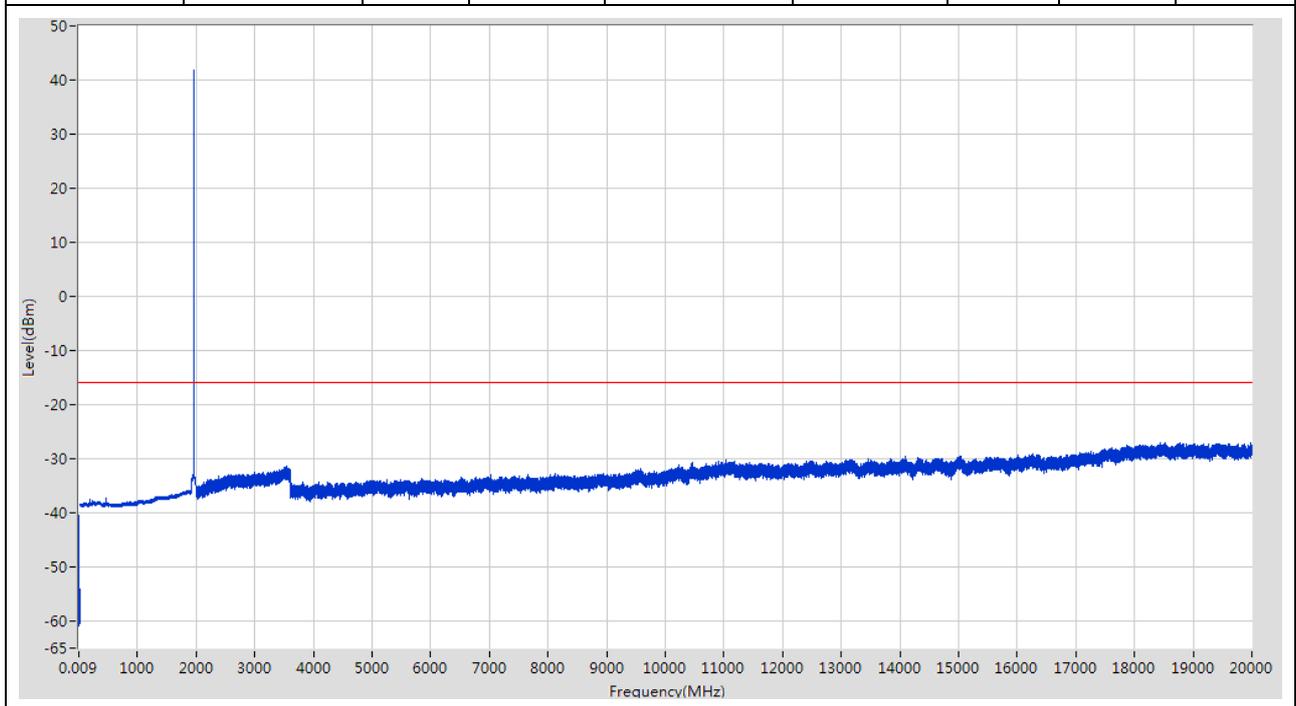
2.2.3.3 DL_1L_1.4M_M_ANTA

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	10.586 k	-47.56	-16	Pass	801
0.15	30	0.01	RMS	157.96 k	-38.68	-16	Pass	15001
30	1000	1	RMS	194.504082 M	-37.46	-16	Pass	4901
1000	2000	1	RMS	1960 M	41.74	-16	Pass	5001
2000	20000	1	RMS	19456.43624 M	-26.87	-16	Pass	90003



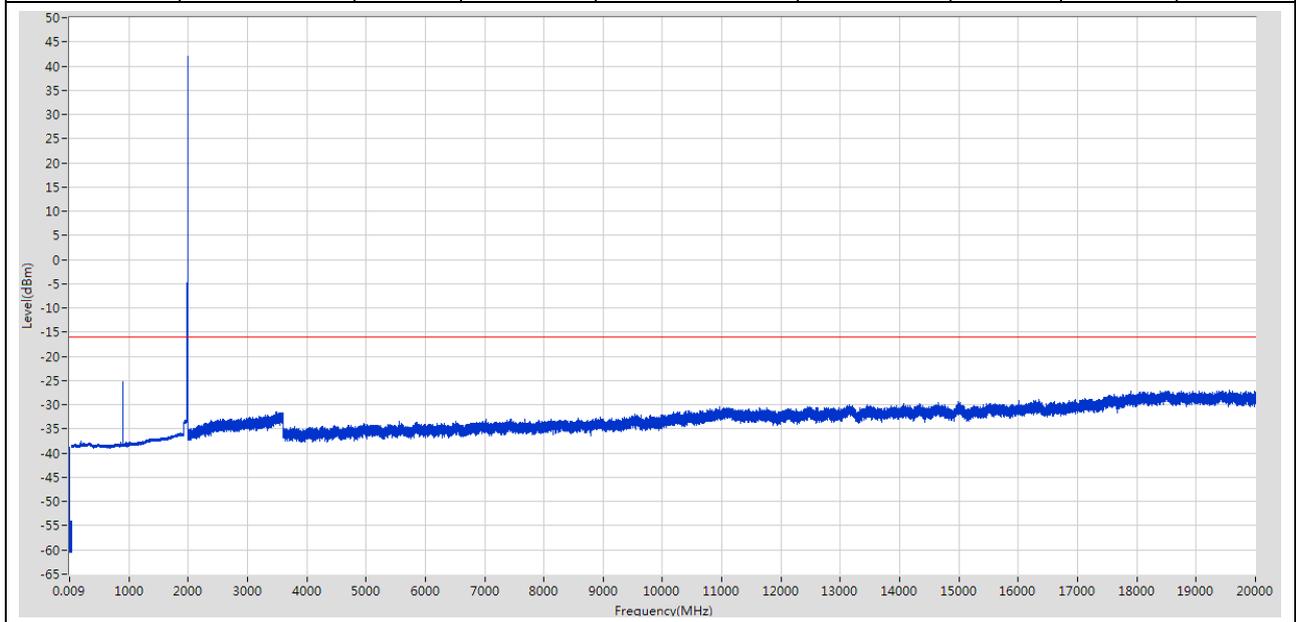
2.2.3.4 DL_1L_1.4M_M_ANTB

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	10.586 k	-48.54	-16	Pass	801
0.15	30	0.01	RMS	311.19 k	-40.47	-16	Pass	15001
30	1000	1	RMS	468.479592 M	-37.27	-16	Pass	4901
1000	2000	1	RMS	1960 M	41.72	-16	Pass	5001
2000	20000	1	RMS	18772.48184 M	-27.1	-16	Pass	90003



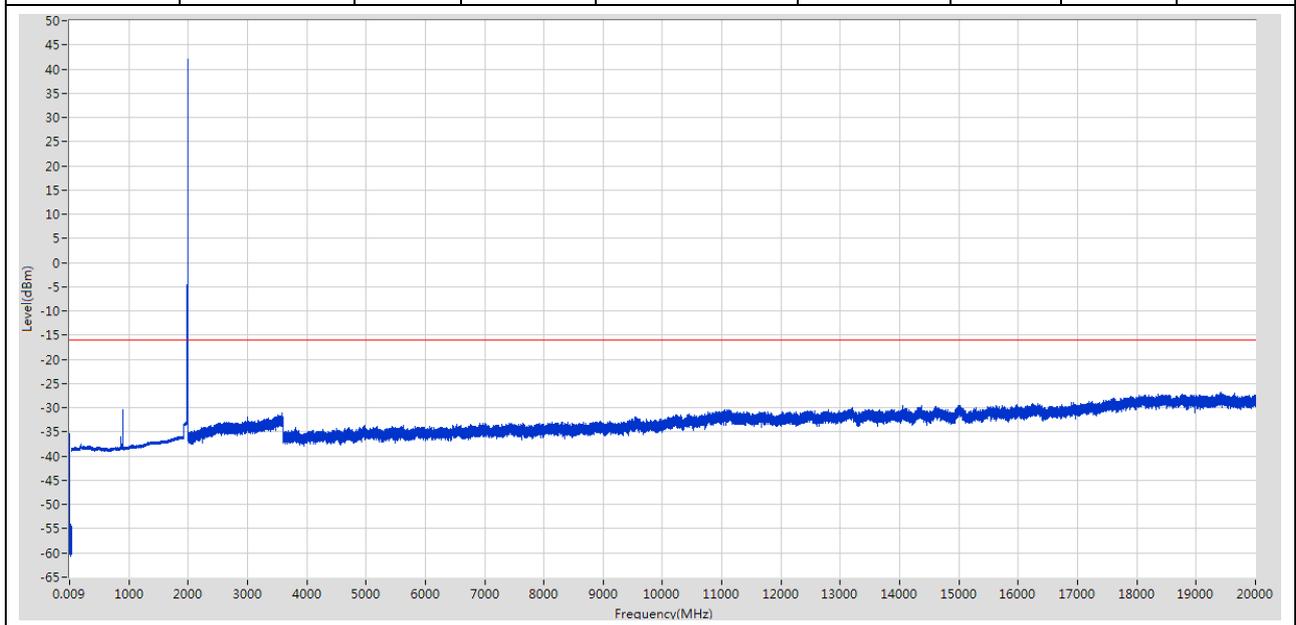
2.2.3.5 DL_1L_1.4M_T_ANTA

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	10.762 k	-47.62	-16	Pass	801
0.15	30	0.01	RMS	155.97 k	-38.72	-16	Pass	15001
30	1000	1	RMS	902.208163 M	-25.15	-16	Pass	4901
1000	2000	1	RMS	1989.4 M	42.03	-16	Pass	5001
2000	20000	1	RMS	19554.629693 M	-26.96	-16	Pass	90003



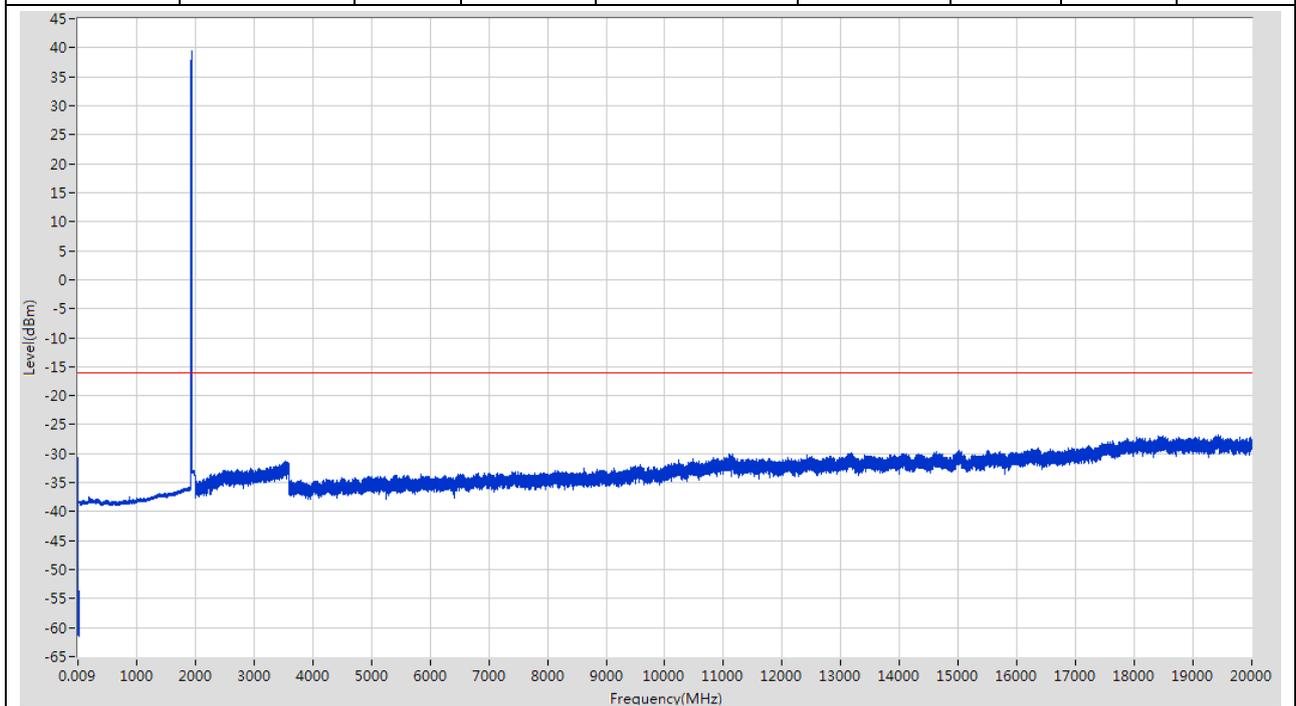
2.2.3.6 DL_1L_1.4M_T_ANTB

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	12.701 k	-47.23	-16	Pass	801
0.15	30	0.01	RMS	157.96 k	-35.23	-16	Pass	15001
30	1000	1	RMS	892.112245 M	-30.34	-16	Pass	4901
1000	2000	1	RMS	1989.4 M	42.08	-16	Pass	5001
2000	20000	1	RMS	19418.438773 M	-26.79	-16	Pass	90003



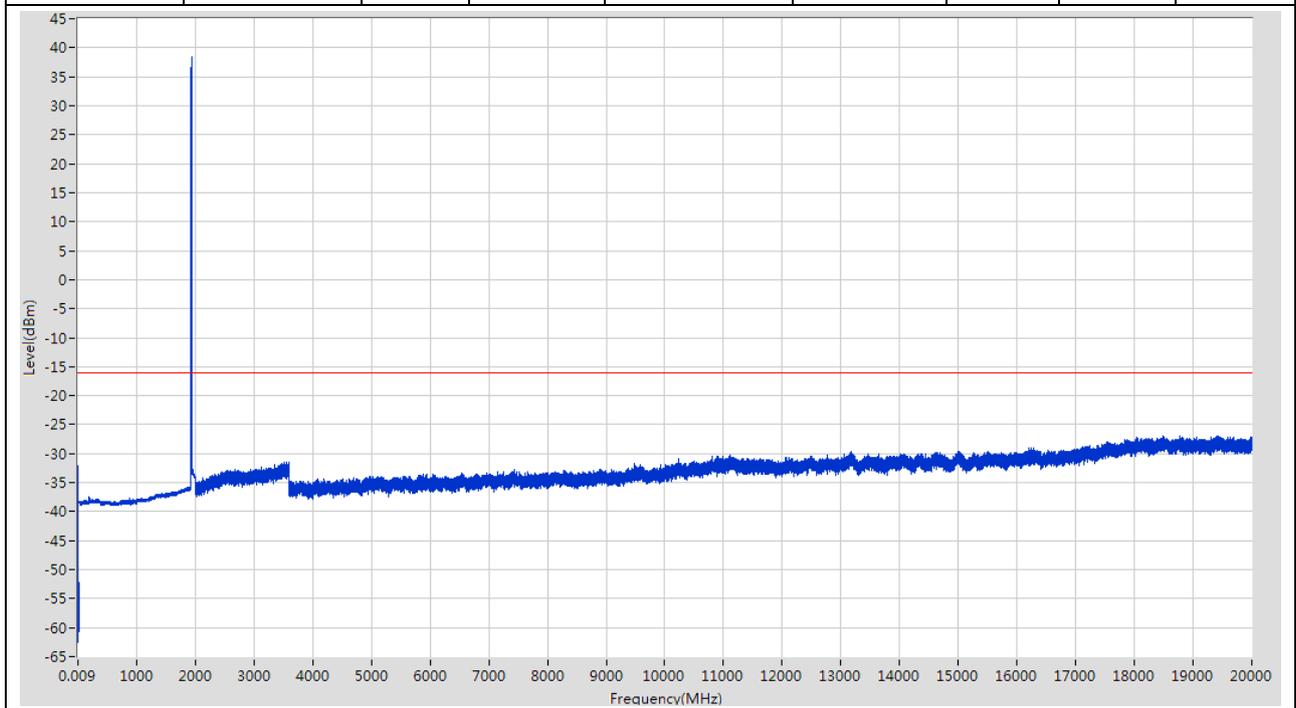
2.2.3.7 DL_2L_1.4M_B_ANT

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	10.057 k	-48.15	-16	Pass	801
0.15	30	0.01	RMS	315.17 k	-30.61	-16	Pass	15001
30	1000	1	RMS	192.722449 M	-37.43	-16	Pass	4901
1000	2000	1	RMS	1932 M	39.36	-16	Pass	5001
2000	20000	1	RMS	19424.238387 M	-26.69	-16	Pass	90003



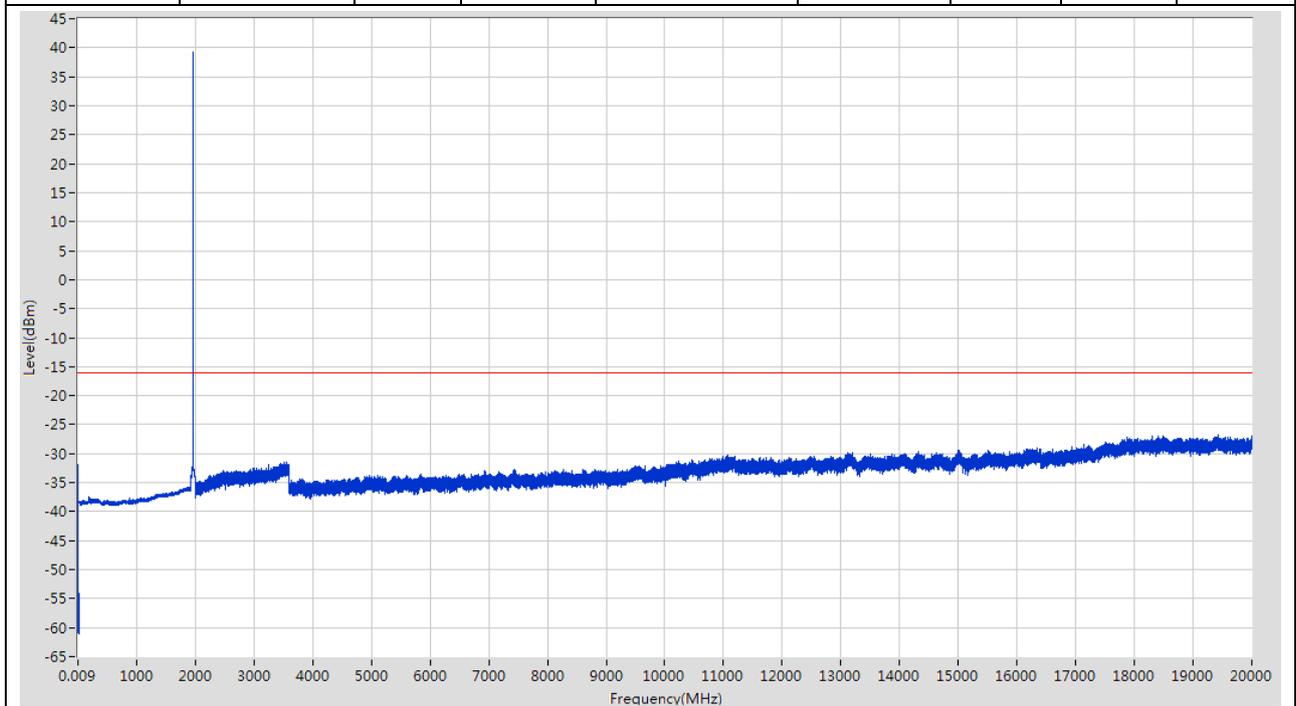
2.2.3.8 DL_2L_1.4M_B_ANTB

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	-47.99	-16	Pass	801
0.15	30	0.01	RMS	315.17 k	-32.01	-16	Pass	15001
30	1000	1	RMS	192.52449 M	-37.37	-16	Pass	4901
1000	2000	1	RMS	1932 M	38.41	-16	Pass	5001
2000	20000	1	RMS	19423.43844 M	-26.95	-16	Pass	90003



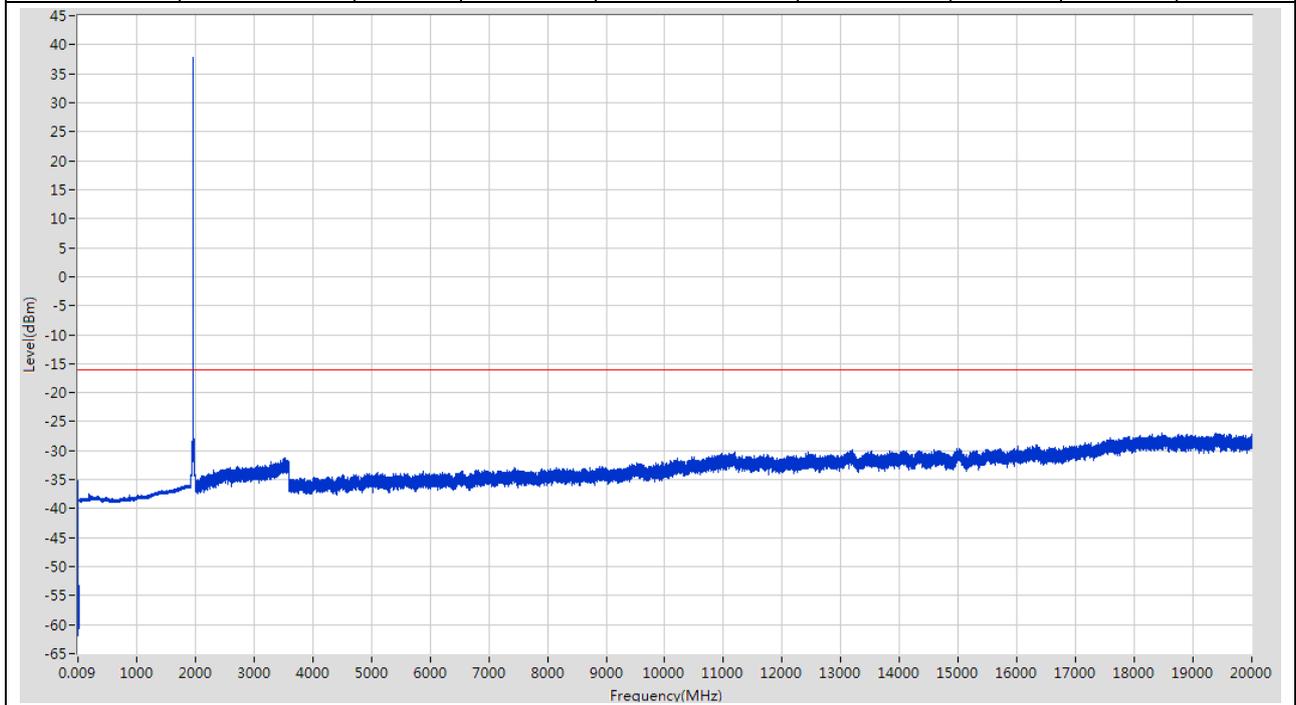
2.2.3.9 DL_2L_1.4M_M_ANTA

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	9.881 k	-48.55	-16	Pass	801
0.15	30	0.01	RMS	315.17 k	-31.82	-16	Pass	15001
30	1000	1	RMS	191.732653 M	-37.48	-16	Pass	4901
1000	2000	1	RMS	1960.6 M	39.18	-16	Pass	5001
2000	20000	1	RMS	19432.837813 M	-26.85	-16	Pass	90003



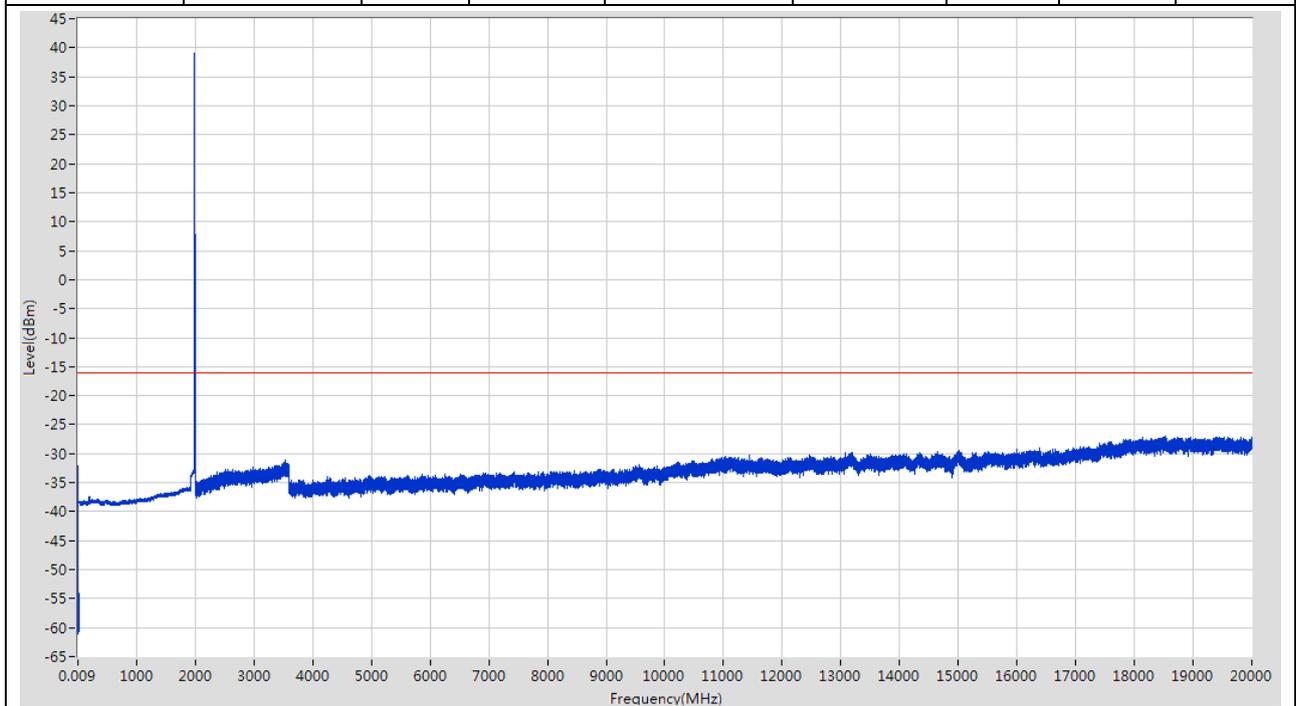
2.2.3.10 DL_2L_1.4M_M_ANTB

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	10.057 k	-46.7	-16	Pass	801
0.15	30	0.01	RMS	315.17 k	-35.17	-16	Pass	15001
30	1000	1	RMS	191.534694 M	-37.44	-16	Pass	4901
1000	2000	1	RMS	1960.4 M	37.84	-16	Pass	5001
2000	20000	1	RMS	19383.641093 M	-26.98	-16	Pass	90003



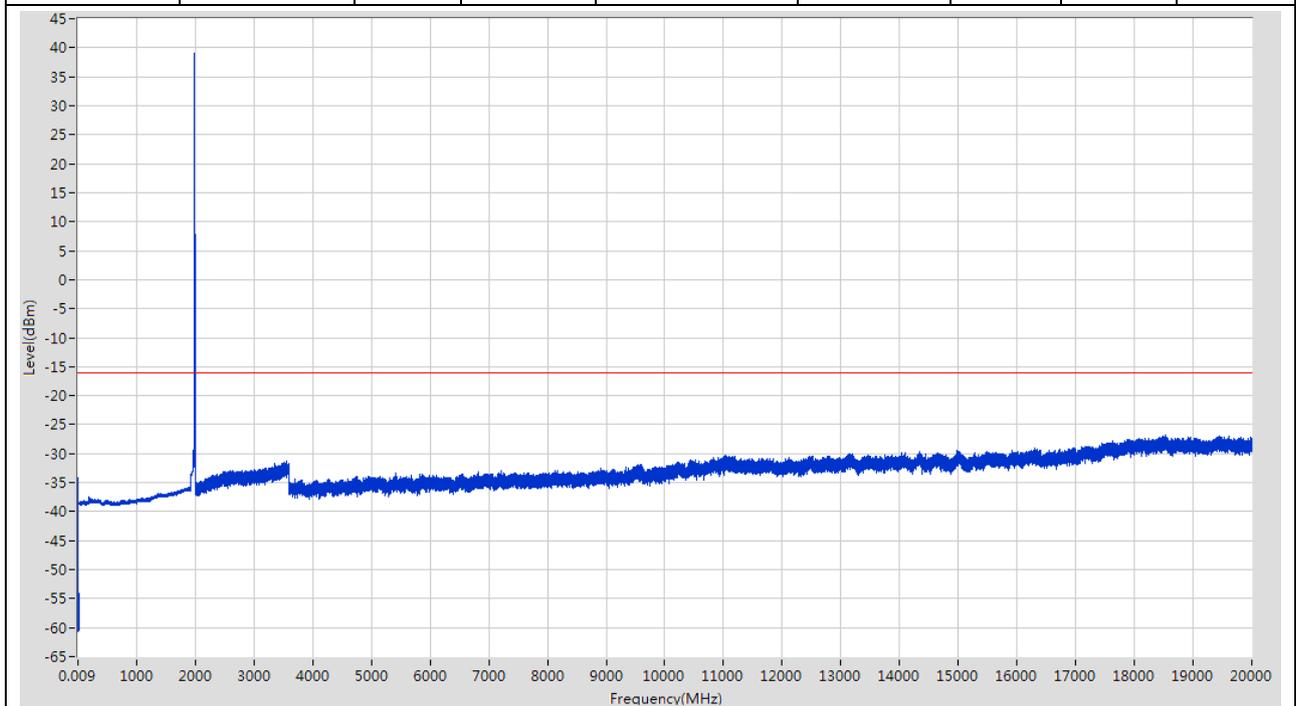
2.2.3.11 DL_2L_1.4M_T_ANTA

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	-47.9	-16	Pass	801
0.15	30	0.01	RMS	315.17 k	-32.03	-16	Pass	15001
30	1000	1	RMS	193.712245 M	-37.42	-16	Pass	4901
1000	2000	1	RMS	1988.2 M	38.98	-16	Pass	5001
2000	20000	1	RMS	18534.89768 M	-27.03	-16	Pass	90003



2.2.3.12 DL_2L_1.4M_T_ANTB

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	9.176 k	-46.62	-16	Pass	801
0.15	30	0.01	RMS	1.39773 M	-34.18	-16	Pass	15001
30	1000	1	RMS	193.118367 M	-37.38	-16	Pass	4901
1000	2000	1	RMS	1989.2 M	38.97	-16	Pass	5001
2000	20000	1	RMS	18526.698227 M	-26.81	-16	Pass	90003

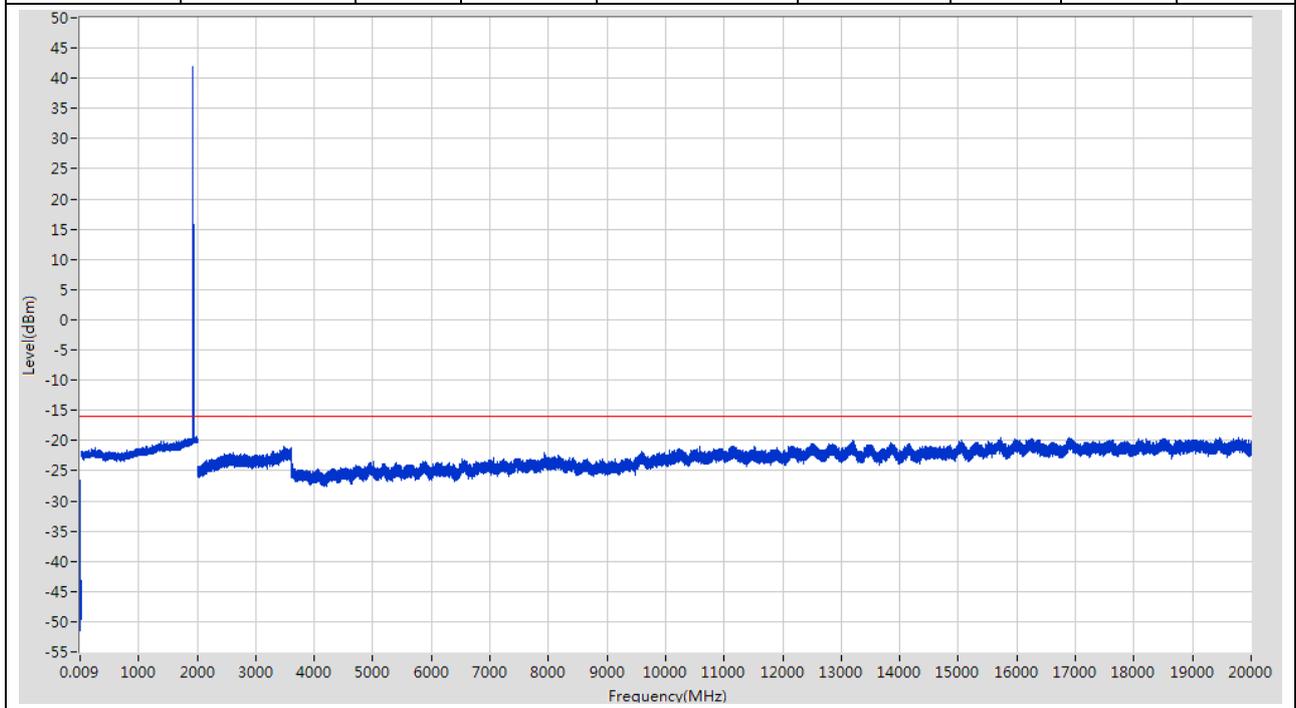


2.3 Downlink Test Plots (input signal +10dB with AGC activated)

2.3.1 GSM system

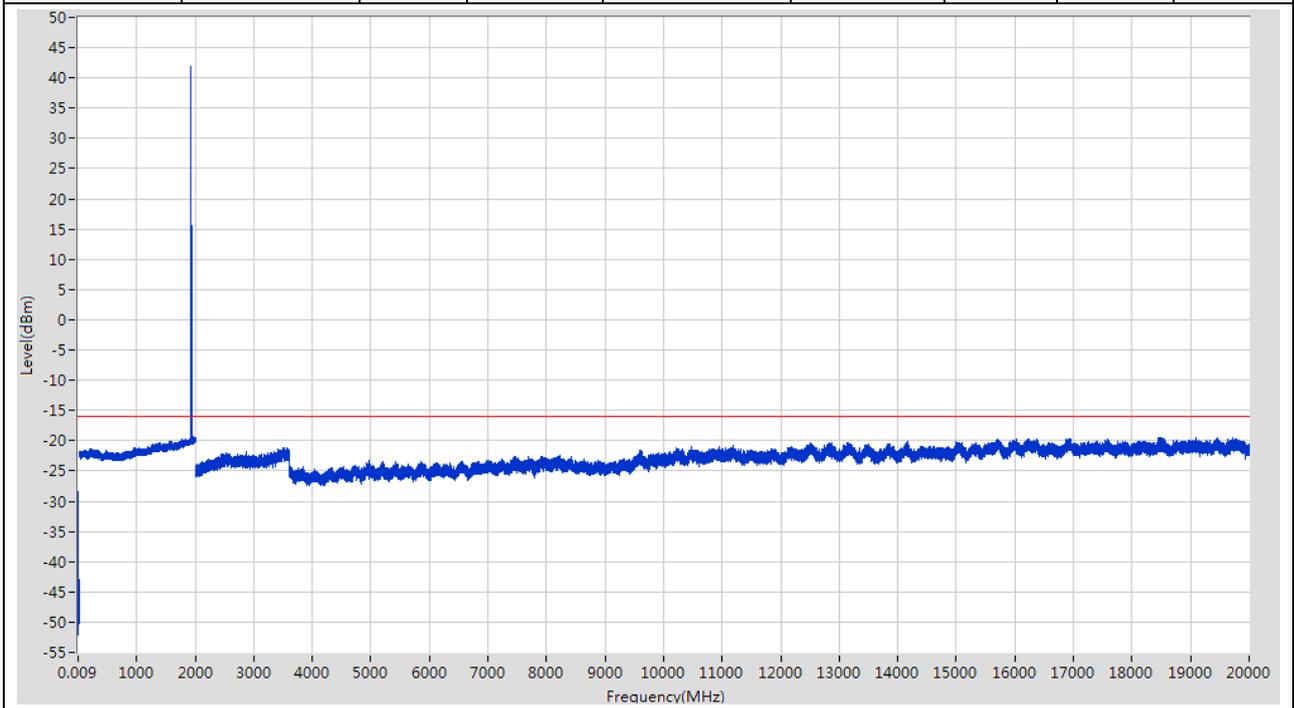
2.3.1.1 DL_2G_TM1_B_ANT

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	10.762 k	-26.5	-16	Pass	801
0.15	30	0.01	RMS	597.75 k	-36.6	-16	Pass	15001
30	2000	1	RMS	1930.751515 M	42	-16	Pass	9901
2000	20000	1	RMS	15729.084747 M	-19.5	-16	Pass	90003



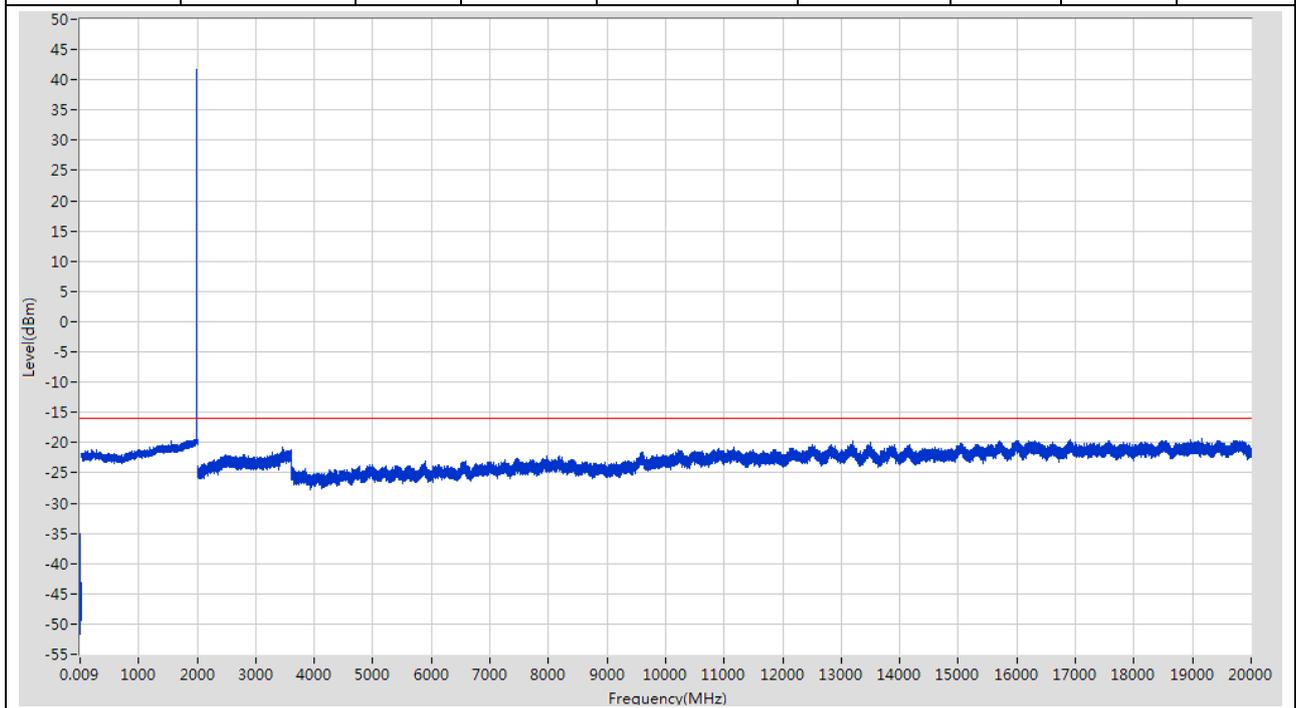
2.3.1.2 DL_2G_TM1_B_ANTB

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	10.41 k	-28.37	-16	Pass	801
0.15	30	0.01	RMS	153.98 k	-32.97	-16	Pass	15001
30	2000	1	RMS	1930.751515 M	41.99	-16	Pass	9901
2000	20000	1	RMS	18515.099 M	-19.46	-16	Pass	90003



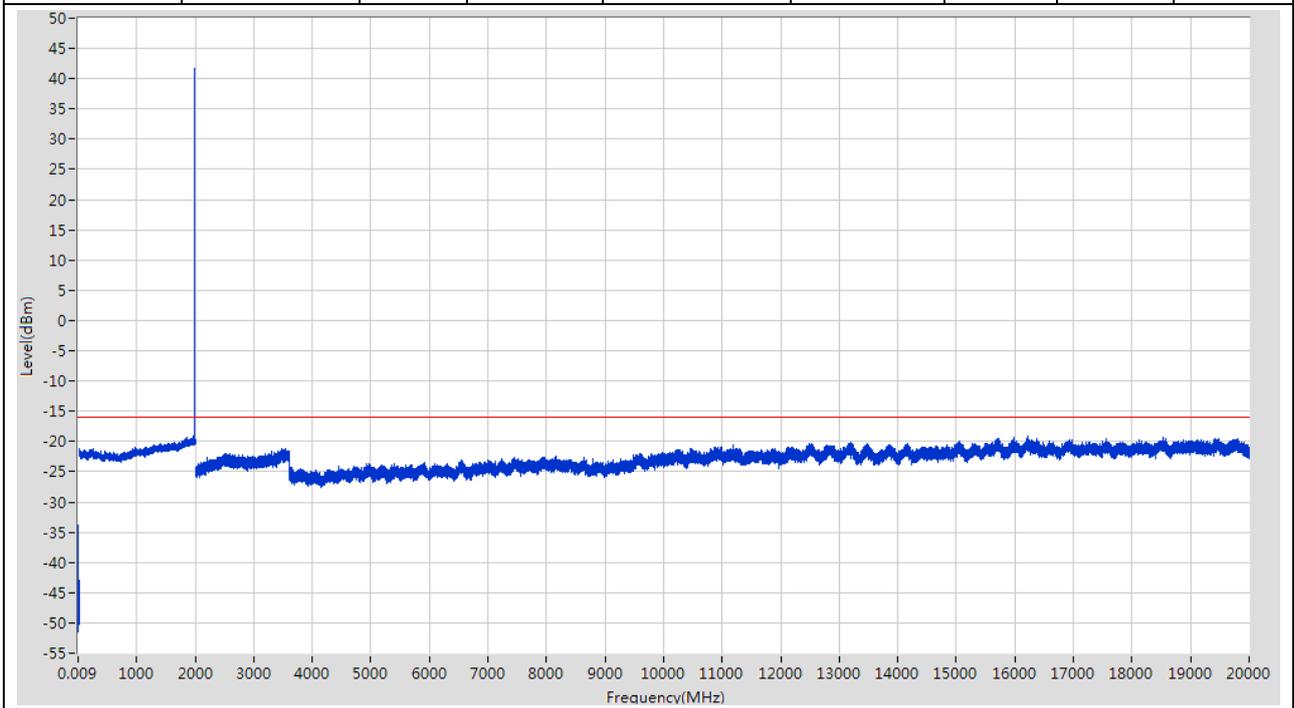
2.3.1.3 DL_2G_TM1_T_ANTA

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	9.705 k	-35.07	-16	Pass	801
0.15	30	0.01	RMS	193.78 k	-35.82	-16	Pass	15001
30	2000	1	RMS	1989.453535 M	41.65	-16	Pass	9901
2000	20000	1	RMS	19148.856747 M	-19.33	-16	Pass	90003



2.3.1.4 DL_2G_TM1_T_ANTB

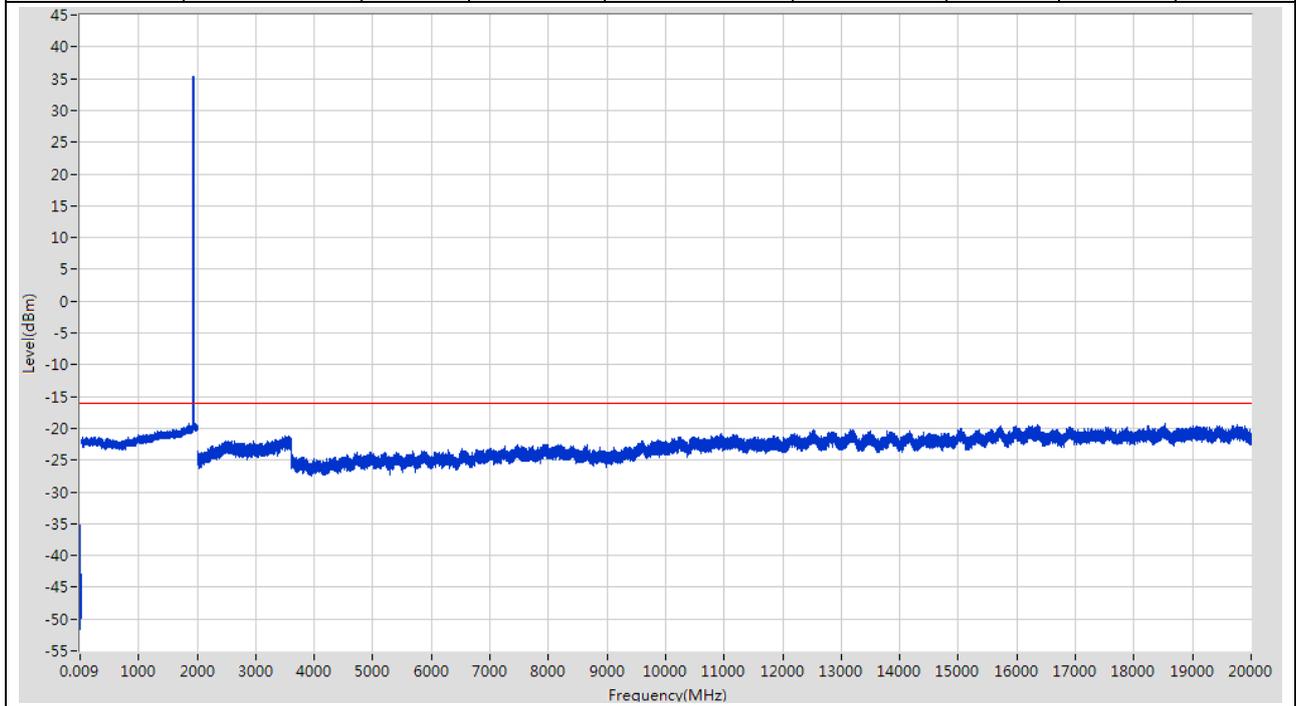
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	9.176 k	-33.78	-16	Pass	801
0.15	30	0.01	RMS	153.98 k	-35.58	-16	Pass	15001
30	2000	1	RMS	1989.453535 M	41.61	-16	Pass	9901
2000	20000	1	RMS	16223.85176 M	-19.07	-16	Pass	90003



2.3.2 UMTS system

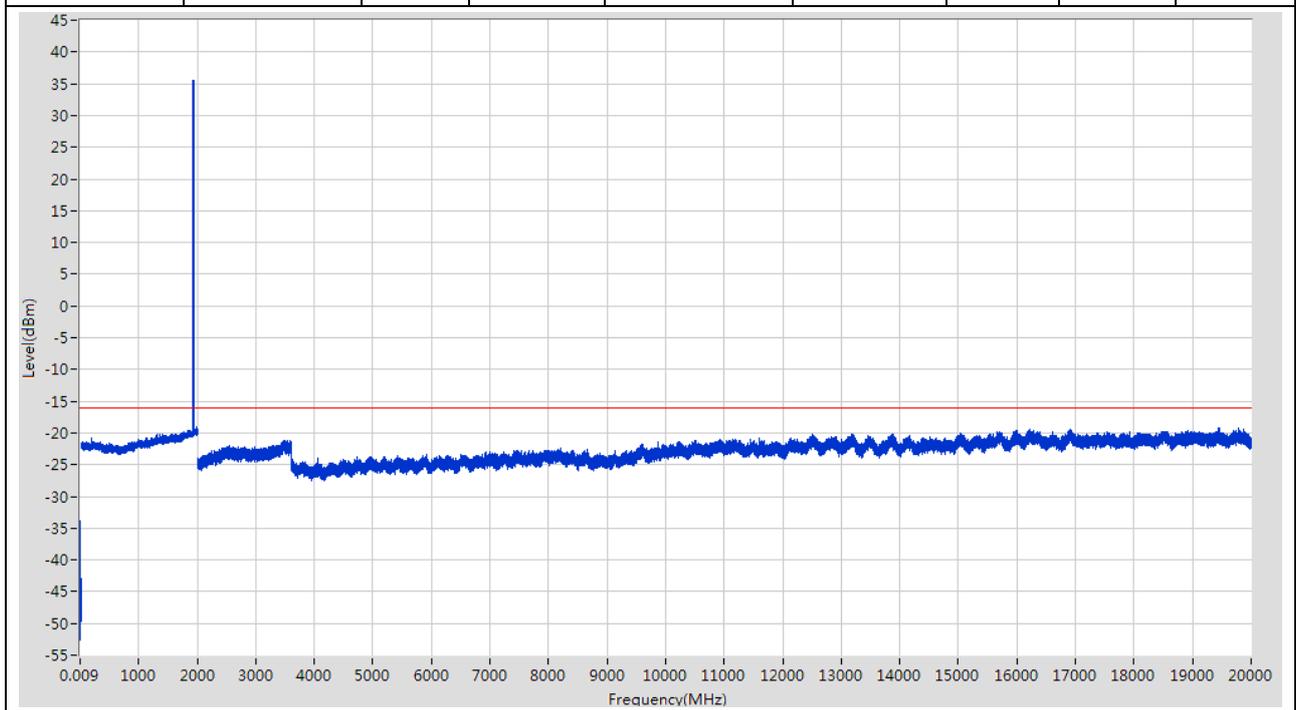
2.3.2.1 DL_2U_TM1_B_ANT

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	9.352 k	-35.19	-16	Pass	801
0.15	30	0.01	RMS	155.97 k	-35.7	-16	Pass	15001
30	2000	1	RMS	1933.139394 M	35.36	-16	Pass	9901
2000	20000	1	RMS	18533.69776 M	-19.28	-16	Pass	90003



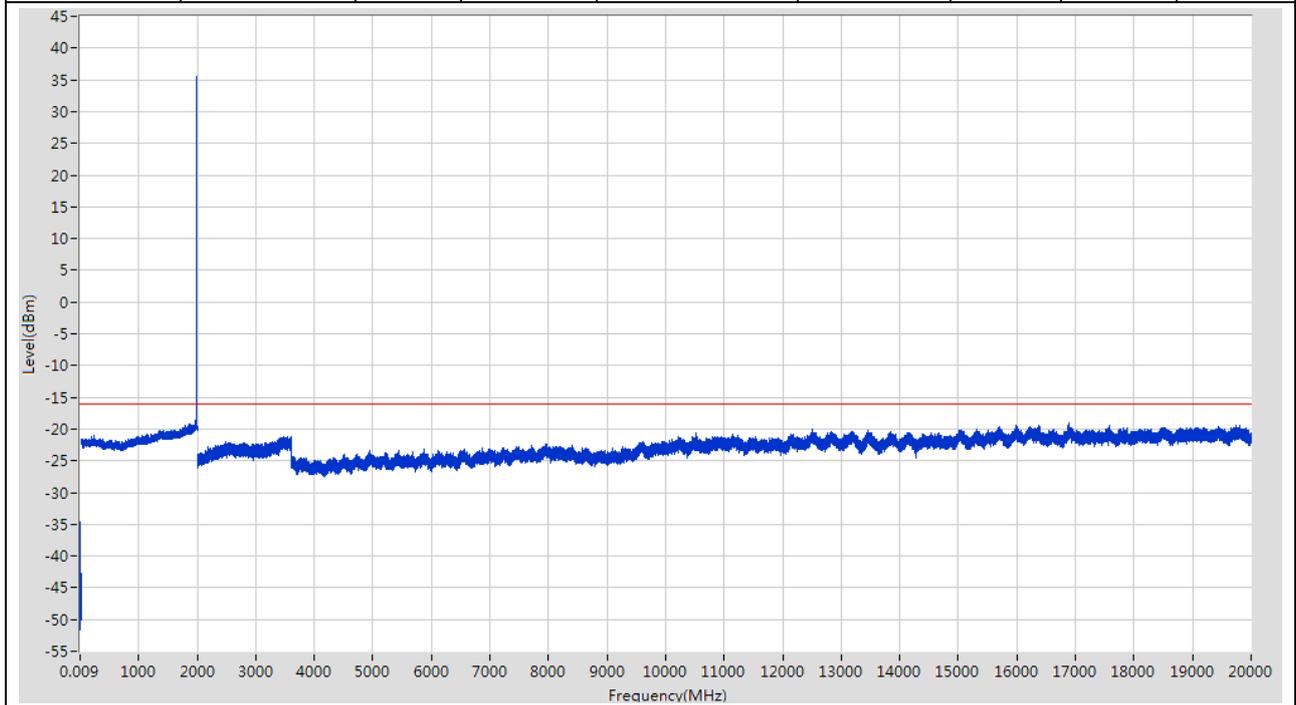
2.3.2.2 DL_2U_TM1_B_ANTB

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	19.399 k	-33.83	-16	Pass	801
0.15	30	0.01	RMS	150 k	-35.87	-16	Pass	15001
30	2000	1	RMS	1933.338384 M	35.52	-16	Pass	9901
2000	20000	1	RMS	19459.43604 M	-19.28	-16	Pass	90003



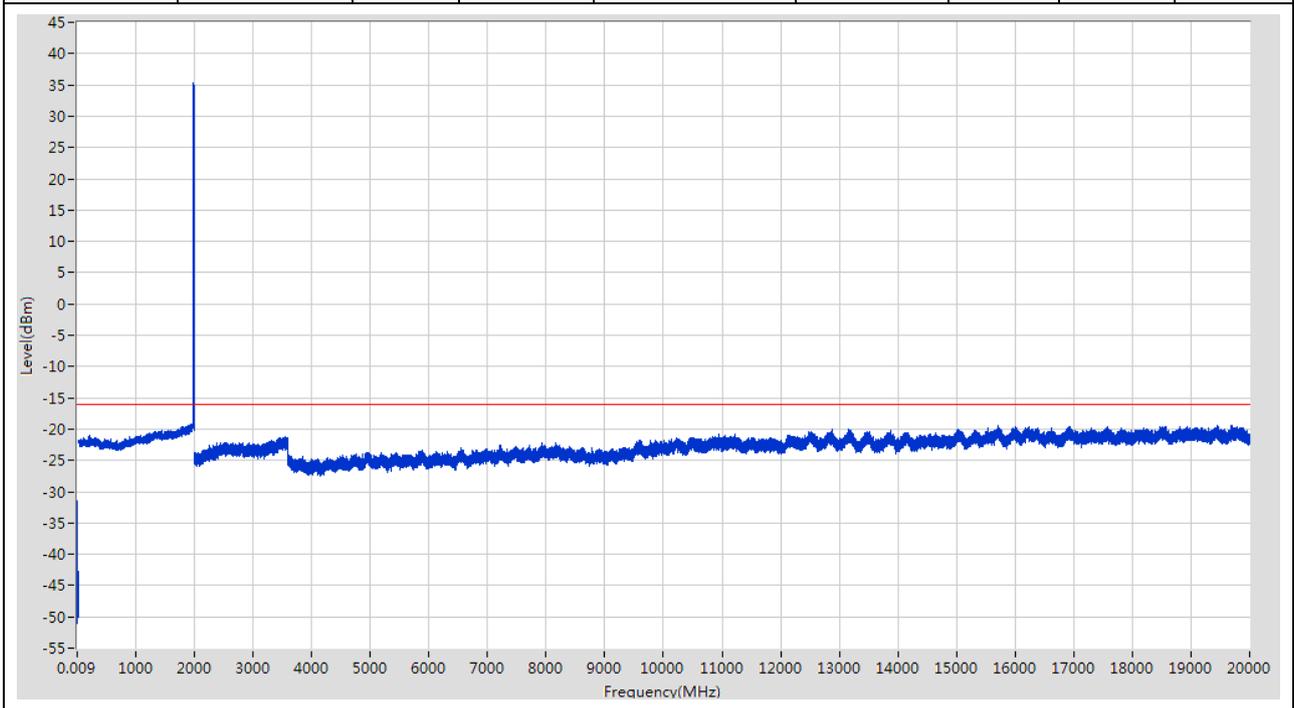
2.3.2.3 DL_2U_TM1_T_ANTA

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	10.41 k	-34.73	-16	Pass	801
0.15	30	0.01	RMS	171.89 k	-35.31	-16	Pass	15001
30	2000	1	RMS	1982.090909 M	35.44	-16	Pass	9901
2000	20000	1	RMS	16896.606907 M	-19.02	-16	Pass	90003



2.3.2.4 DL_2U_TM1_T_ANTB

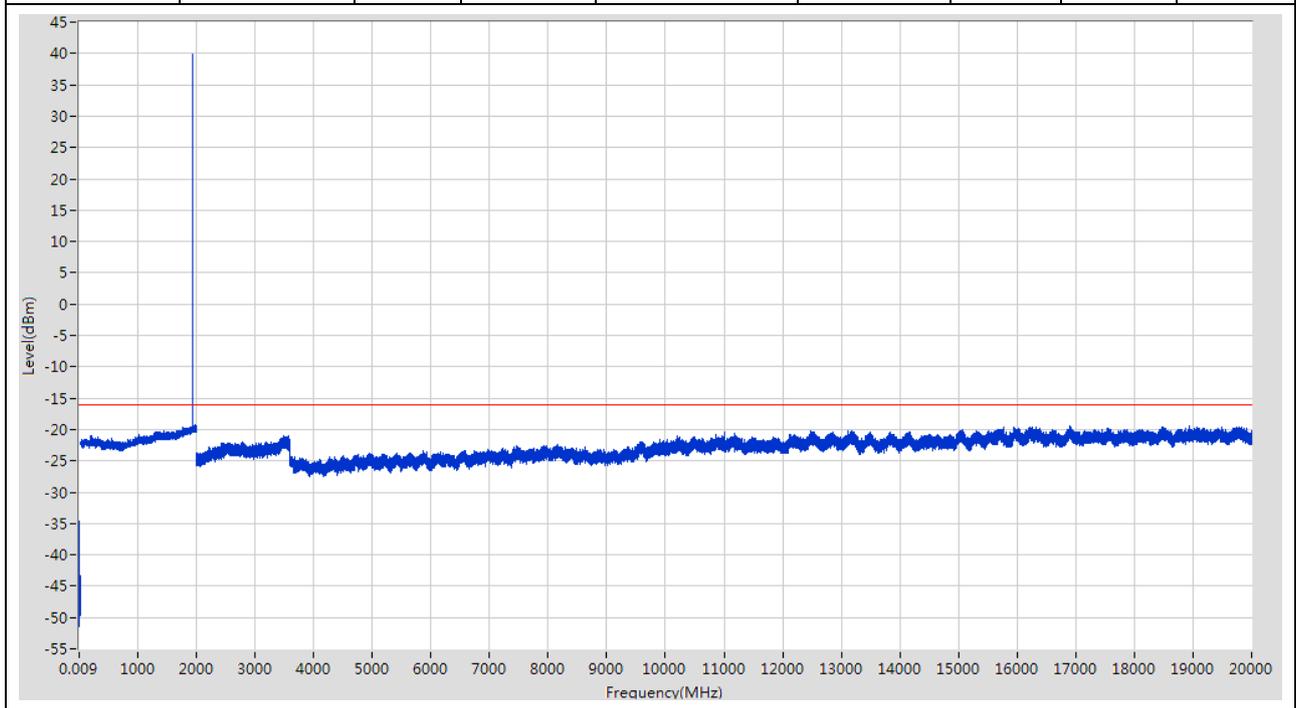
Start Frequency [MHz]	Stop Frequency [MHz]	RBW [MHz]	Detector	Frequency [Hz]	Emission [dBm]	Limit [dBm]	Verdict	Sweep Point
0.009	0.15	0.001	RMS	10.762 k	-31.55	-16	Pass	801
0.15	30	0.01	RMS	157.96 k	-36.3	-16	Pass	15001
30	2000	1	RMS	1981.891919 M	35.38	-16	Pass	9901
2000	20000	1	RMS	15699.686707 M	-19.43	-16	Pass	90003



2.3.3 LTE system

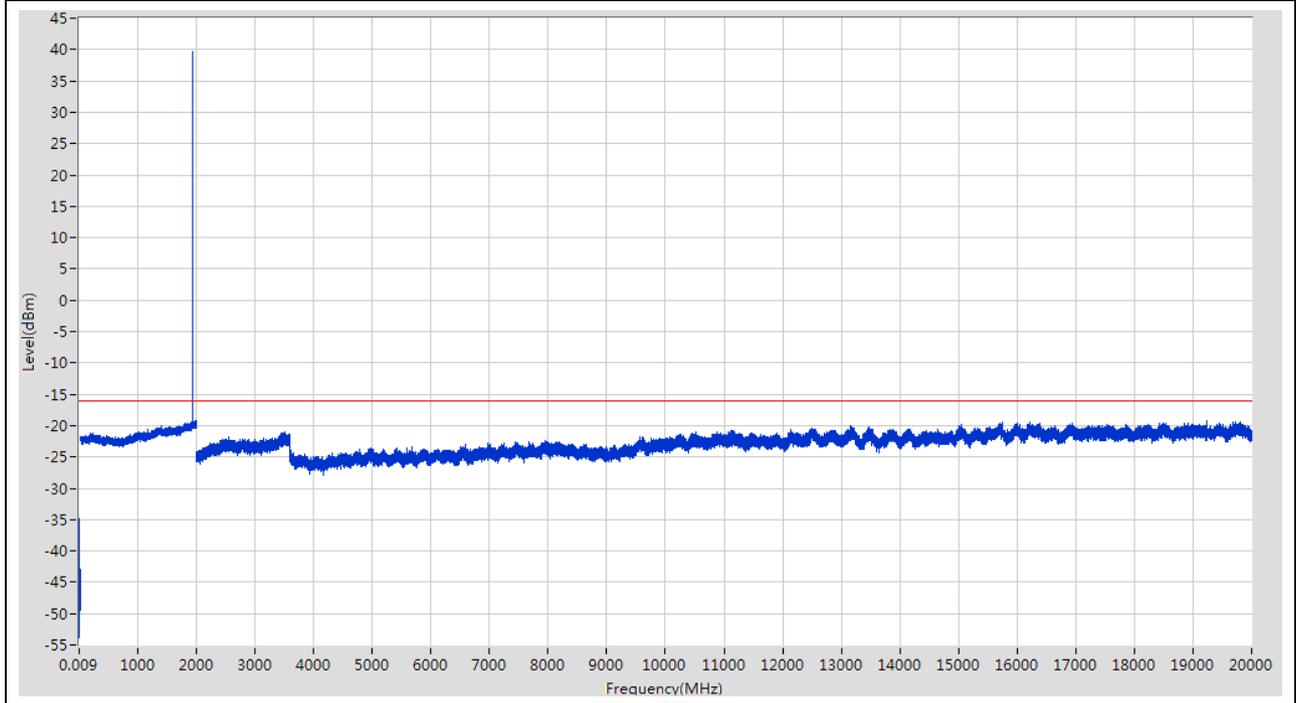
2.3.3.1 DL_2L_1.4M_B_ANTA

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	9.176 k	-34.62	-16	Pass	801
0.15	30	0.01	RMS	153.98 k	-36.3	-16	Pass	15001
30	2000	1	RMS	1932.144444 M	39.8	-16	Pass	9901
2000	20000	1	RMS	18942.470507 M	-19.47	-16	Pass	90003



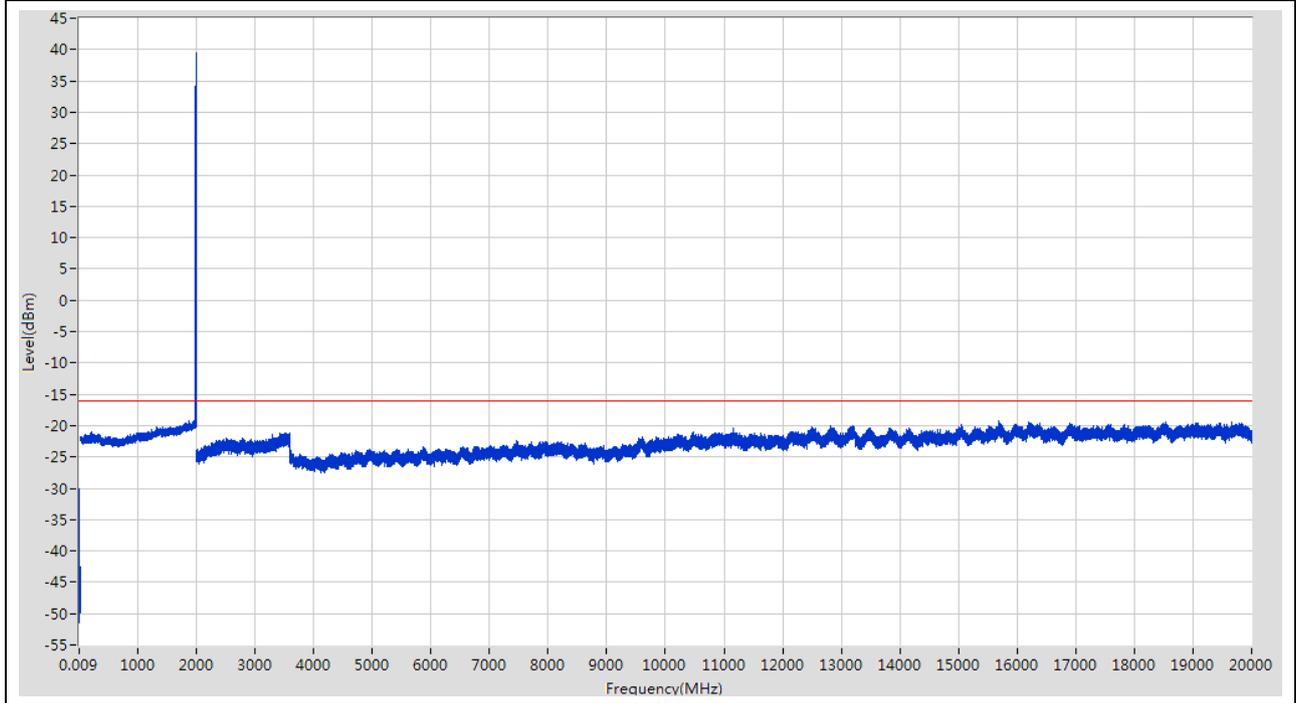
2.3.3.2 DL_2L_1.4M_B_ANTB

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	-34.93	-16	Pass	801
0.15	30	0.01	RMS	191.79 k	-35.55	-16	Pass	15001
30	2000	1	RMS	1932.144444 M	39.68	-16	Pass	9901
2000	20000	1	RMS	19240.650627 M	-19.15	-16	Pass	90003



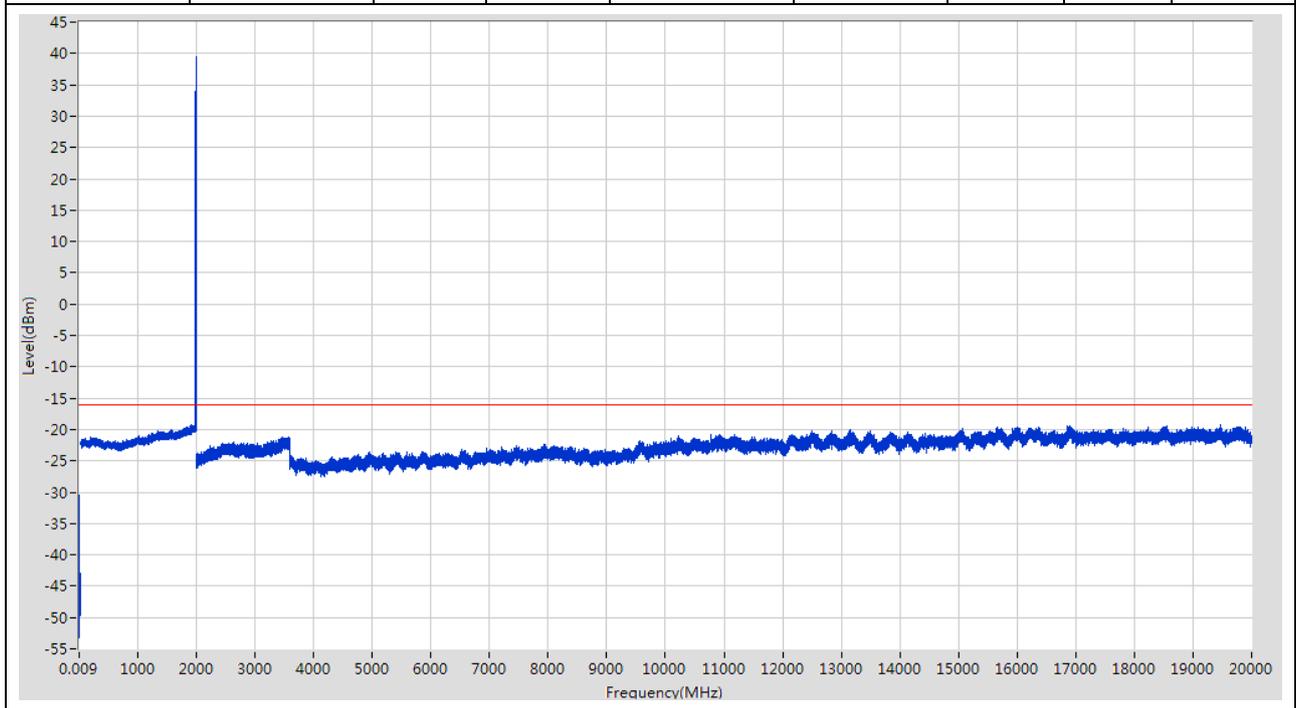
2.3.3.3 DL_2L_1.4M_T_ANTA

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	12.525 k	-30.12	-16	Pass	801
0.15	30	0.01	RMS	195.77 k	-35.06	-16	Pass	15001
30	2000	1	RMS	1988.060606 M	39.5	-16	Pass	9901
2000	20000	1	RMS	15691.487253 M	-19.28	-16	Pass	90003



2.3.3.4 DL_2L_1.4M_T_ANTB

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	15.521 k	-30.48	-16	Pass	801
0.15	30	0.01	RMS	177.86 k	-36.18	-16	Pass	15001
30	2000	1	RMS	1989.254545 M	39.54	-16	Pass	9901
2000	20000	1	RMS	19462.835813 M	-19.27	-16	Pass	90003





Appendix E: Field Strength of Spurious Radiation



1 Result Table

1.1 Uplink Test Results

Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

1.2 Downlink Test Results

EUT Conf.	Maximum Emission [dBm]	Verdict
DL_1CW_M_ANTA	<-16	Pass
DL_1CW_M_ANTB		



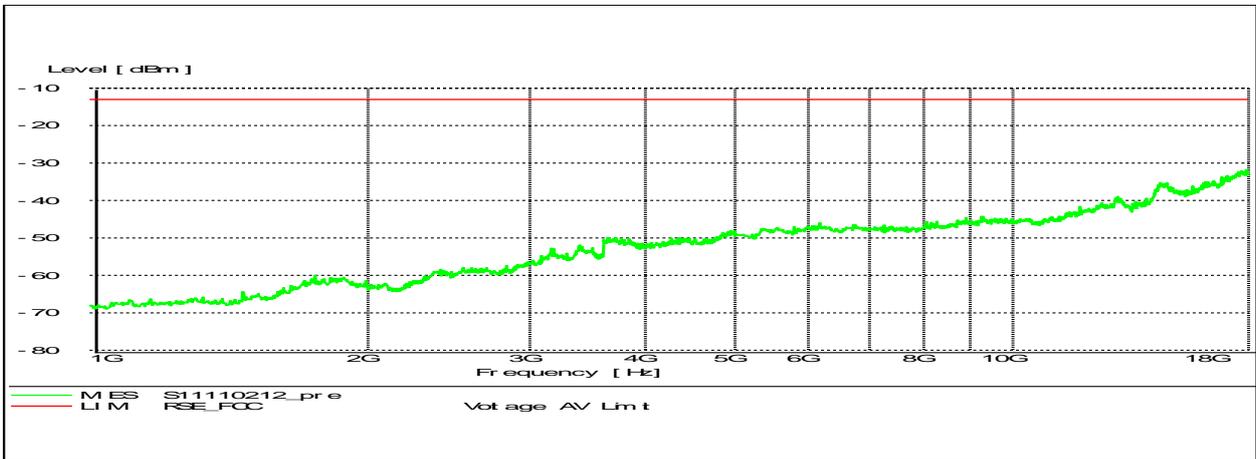
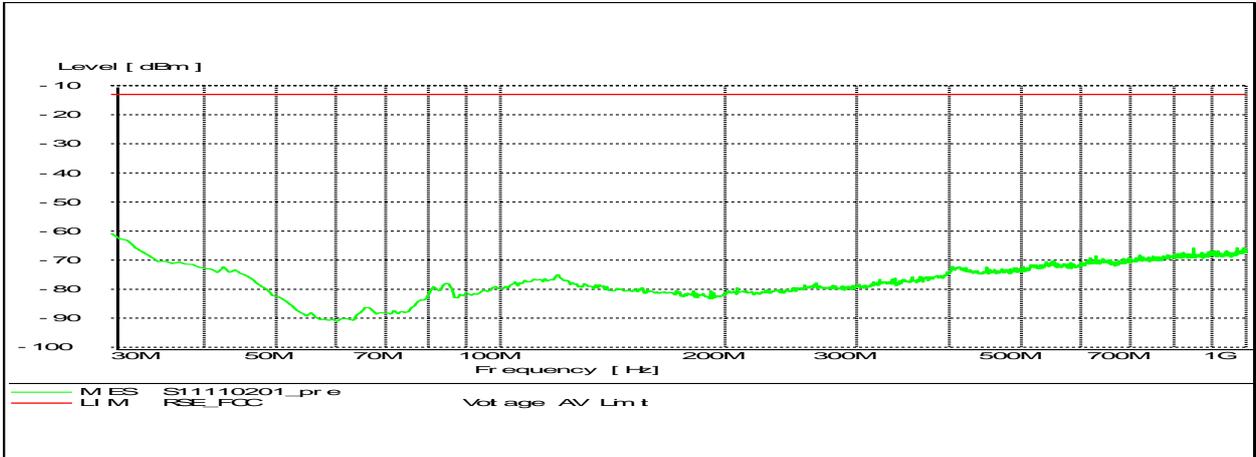
2 Test Plot

2.1 Uplink Test Plots

Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

2.2 Downlink Test Plots





Appendix F: Frequency Stability



1 Result Table

1.1 Frequency Error

1.1.1 Uplink Test Results

Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

1.1.2 Downlink Test Results

1.1.2.1 Frequency Error vs. Temperature

EUT Conf.	Voltage	Temperature	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Verdict
DL_1G_TM1_M_ANTA	100%	-30 °C	16.5	0.008418	0.008418	Pass
	100%	-20 °C	17.8	0.009082	0.009082	Pass
	100%	-10 °C	15.8	0.008061	0.008061	Pass
	100%	0 °C	19.8	0.010102	0.010102	Pass
	100%	+10 °C	16.5	0.008418	0.008418	Pass
	100%	+20 °C	19.5	0.009949	0.009949	Pass
	100%	+30 °C	16.5	0.008418	0.008418	Pass
	100%	+40 °C	18.3	0.009337	0.009337	Pass
	100%	+50 °C	17.4	0.008878	0.008878	Pass
DL_1G_TM1_M_ANTB	100%	-30 °C	17.1	0.008724	0.008724	Pass
	100%	-20 °C	19.5	0.009949	0.009949	Pass
	100%	-10 °C	18.4	0.009388	0.009388	Pass
	100%	0 °C	19.6	0.010000	0.010000	Pass
	100%	+10 °C	19.1	0.009745	0.009745	Pass
	100%	+20 °C	16.4	0.008367	0.008367	Pass
	100%	+30 °C	18.4	0.009388	0.009388	Pass
	100%	+40 °C	14.7	0.007500	0.007500	Pass
	100%	+50 °C	18.2	0.009286	0.009286	Pass

1.1.2.2 Frequency Error vs. Voltage

EUT Conf.	Temperature	Voltage	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Verdict
DL_1G_TM1_M_ANTA	+20 °C	85 %	11.8	0.006020	0.006020	Pass
	+20 °C	100 %	11.9	0.006071	0.006071	Pass



EUT Conf.	Temperature	Voltage	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Verdict
	+20 °C	115 %	16.8	0.008571	0.008571	Pass
DL_1G_TM1_M_ANTB	+20 °C	85 %	19.5	0.009949	0.009949	Pass
	+20 °C	100 %	13.9	0.007092	0.007092	Pass
	+20 °C	115 %	16.2	0.008265	0.008265	Pass



Appendix G: Mean Output Power

1 Result Table

When the output power reach to rated maximum output power, AGC function will be active. Then output power and intermodulation product level cannot rise any more with input signal level increasing.

1.1.1 Uplink Test Results

Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

1.1.2 Downlink Test Results

EUT Conf.	Pmean [dBm]	Verdict
DL_2CW_M_ANTA	43.54	Pass
DL_2CW_M_ANTB	43.82	Pass

2 Test Plot

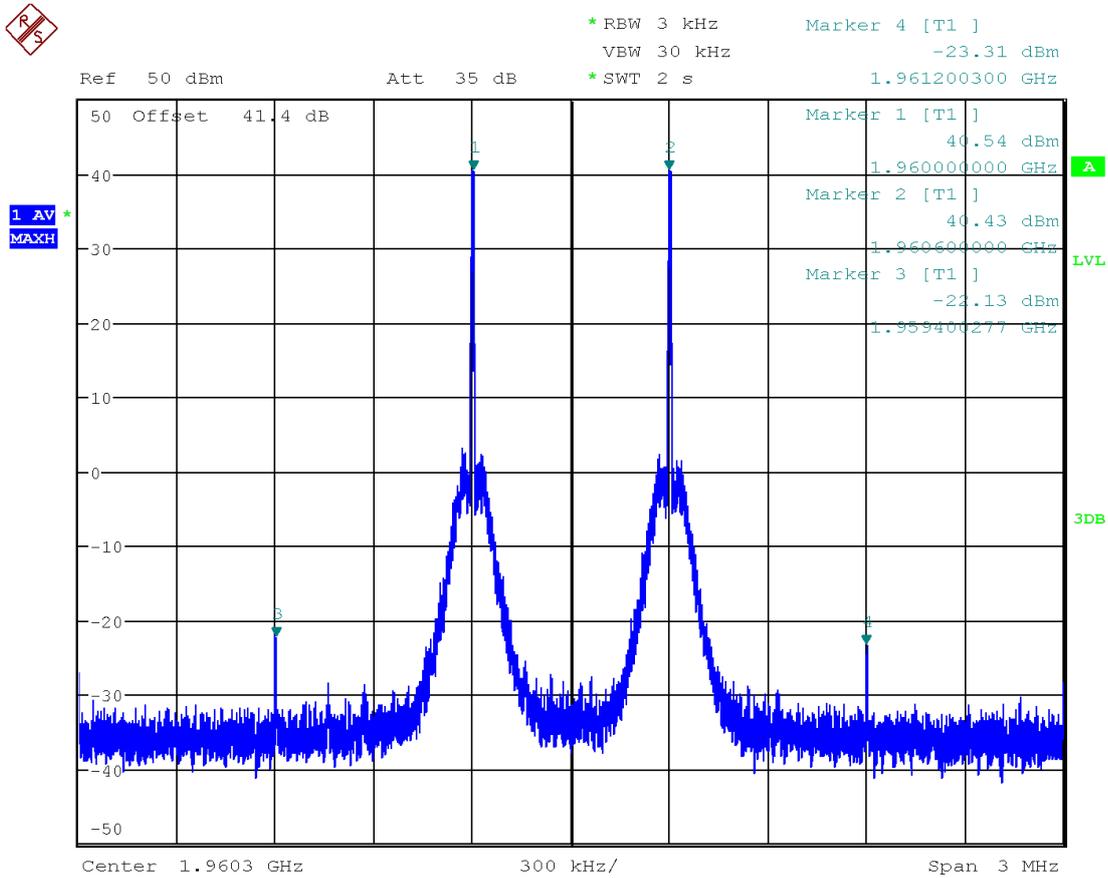
2.1.1 Uplink Test Plots

Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

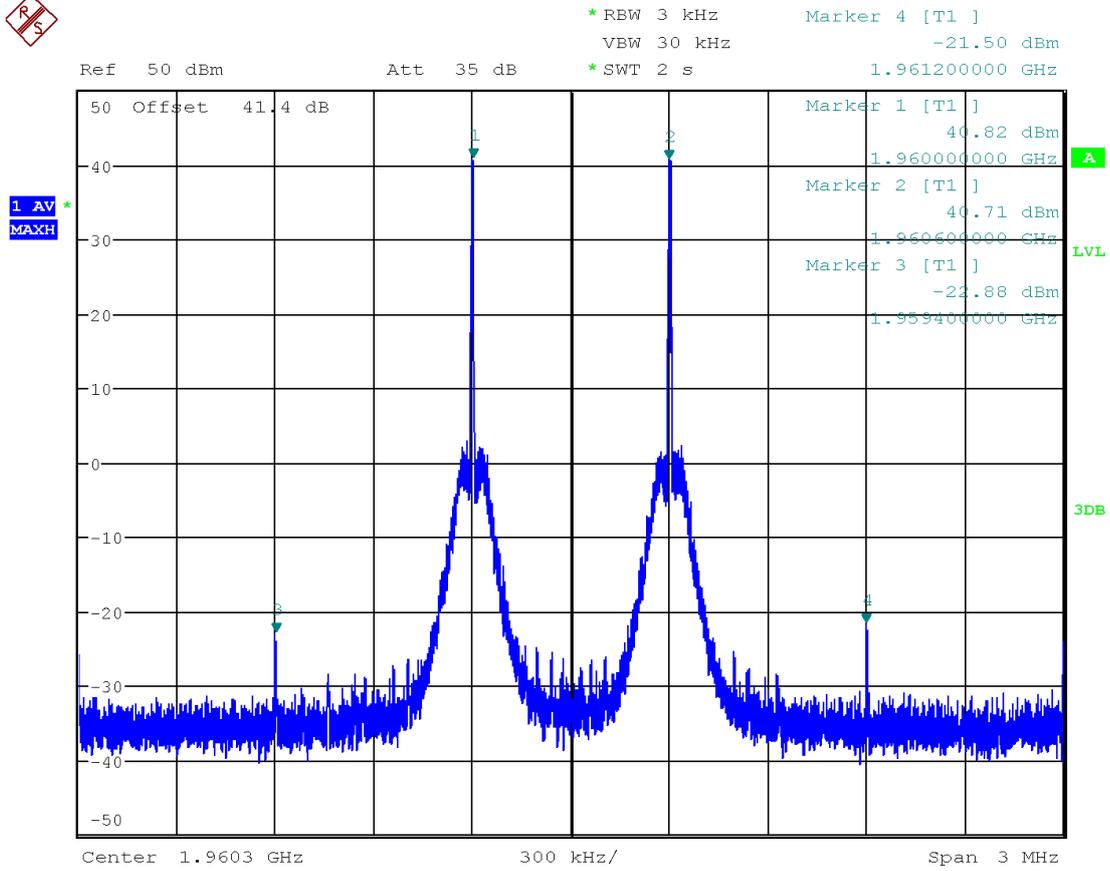
2.1.2 Downlink Test Plots

2.1.2.1 DL_2CW_M_ANTA



Date: 15.NOV.2013 11:20:00

2.1.2.2 DL_2CW_M_ANTB



Date: 15.NOV.2013 10:32:50



Appendix H: Non-Linearity



1 Result Table

1.1.1 Uplink Test Results

Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

1.1.2 Downlink Test Results

EUT Conf.	Intermodulation		Verdict
	Left	Right	
DL_2CW_B_ANTA	-24.35	-26.78	Pass
DL_2CW_B_ANTB	-23.03	-26.64	Pass
DL_2CW_M_ANTA	-22.13	-23.31	Pass
DL_2CW_M_ANTB	-22.88	-21.50	Pass
DL_2CW_T_ANTA	-23.54	-23.73	Pass
DL_2CW_T_ANTB	-24.21	-22.43	Pass



2 Test Plot

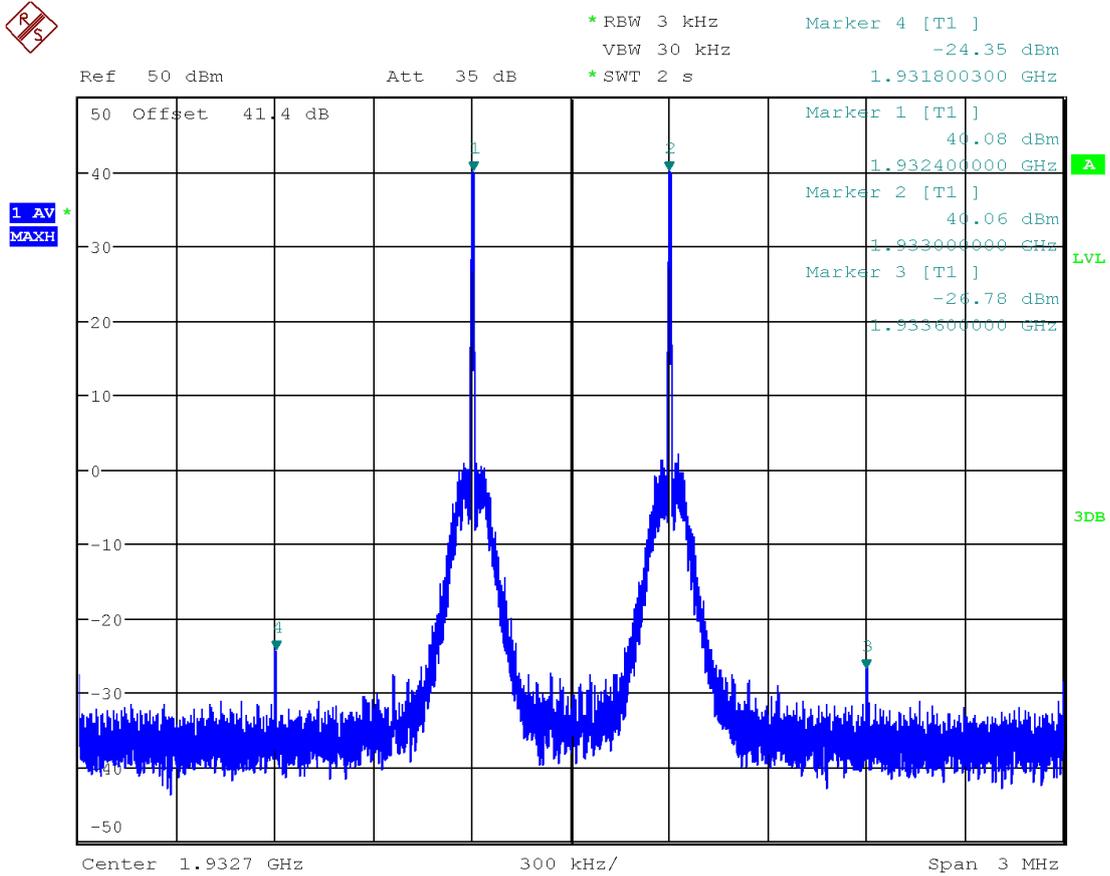
2.1.1 Uplink Test Plots

Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

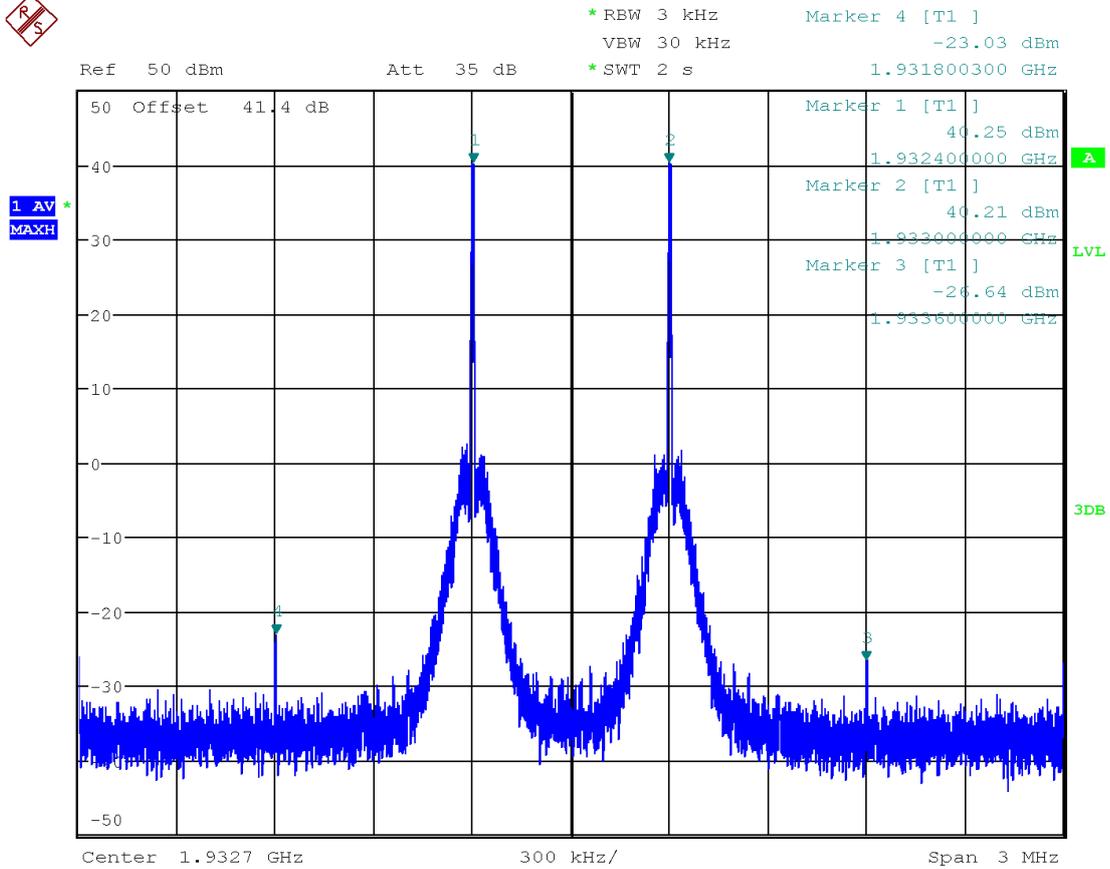
2.1.2 Downlink Test Plots

2.1.2.1 DL_2CW_B_ANTA



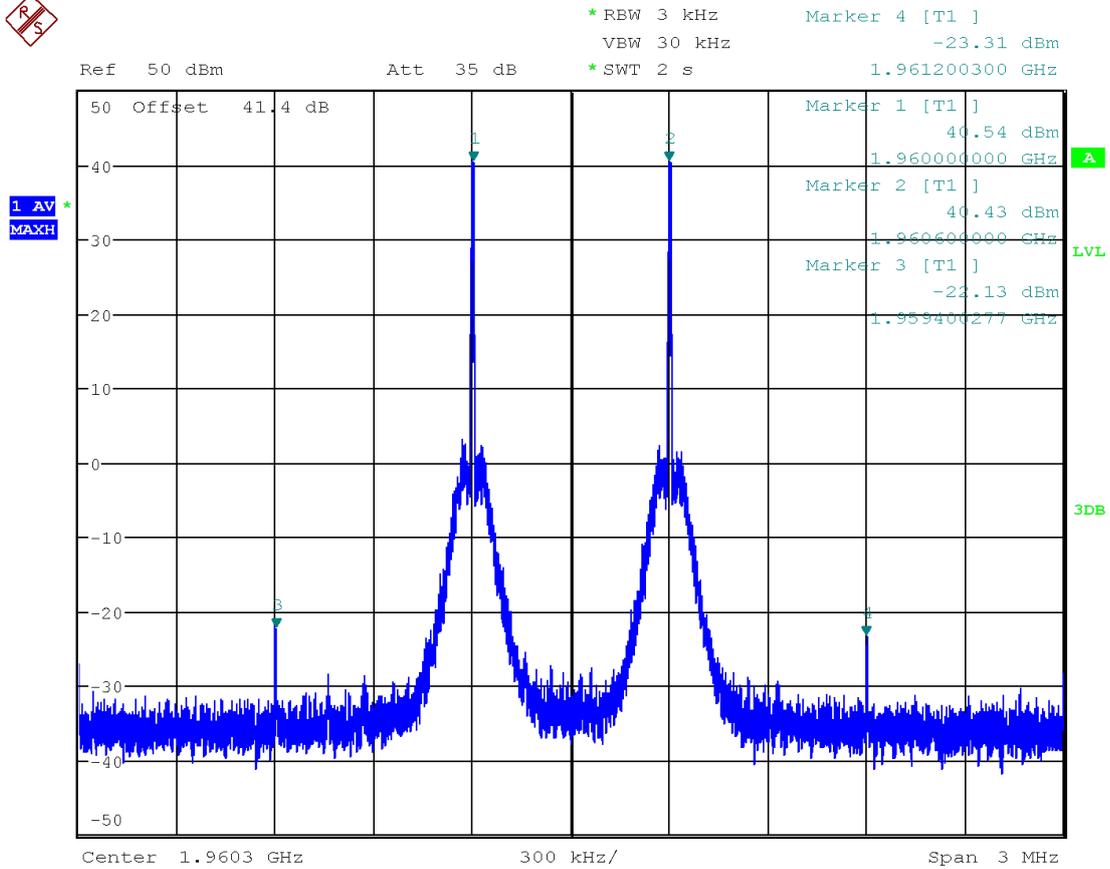
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2.1.2.2 DL_2CW_B_ANTB



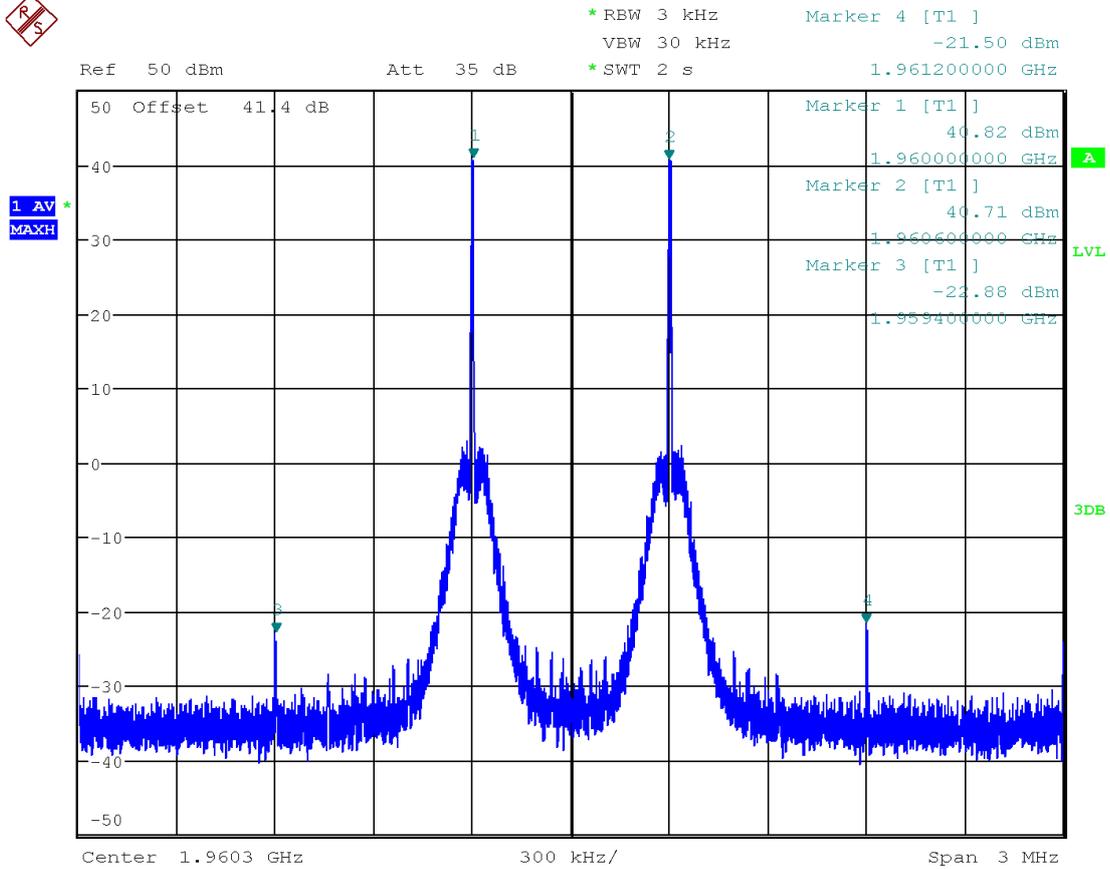
Date: 15.NOV.2013 10:40:52

2.1.2.3 DL_2CW_M_ANTA



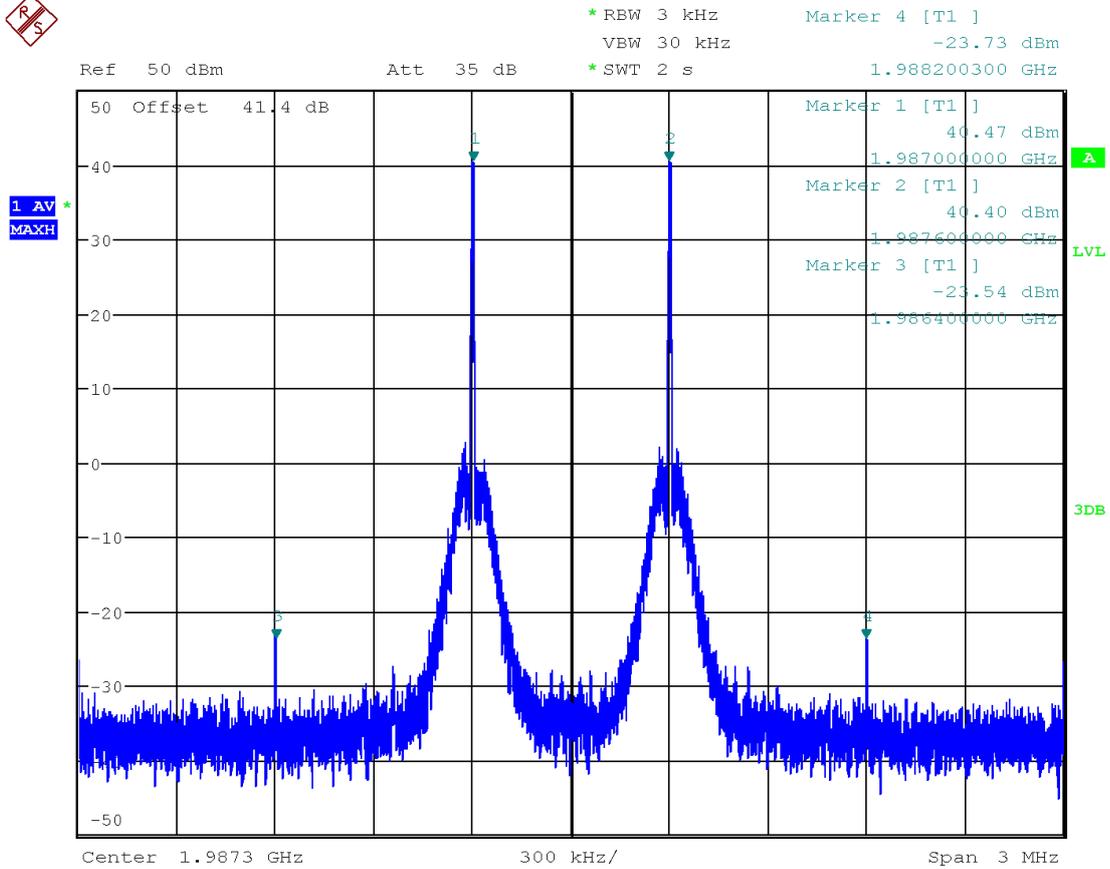
Date: 15.NOV.2013 11:20:00

2.1.2.4 DL_2CW_M_ANTB



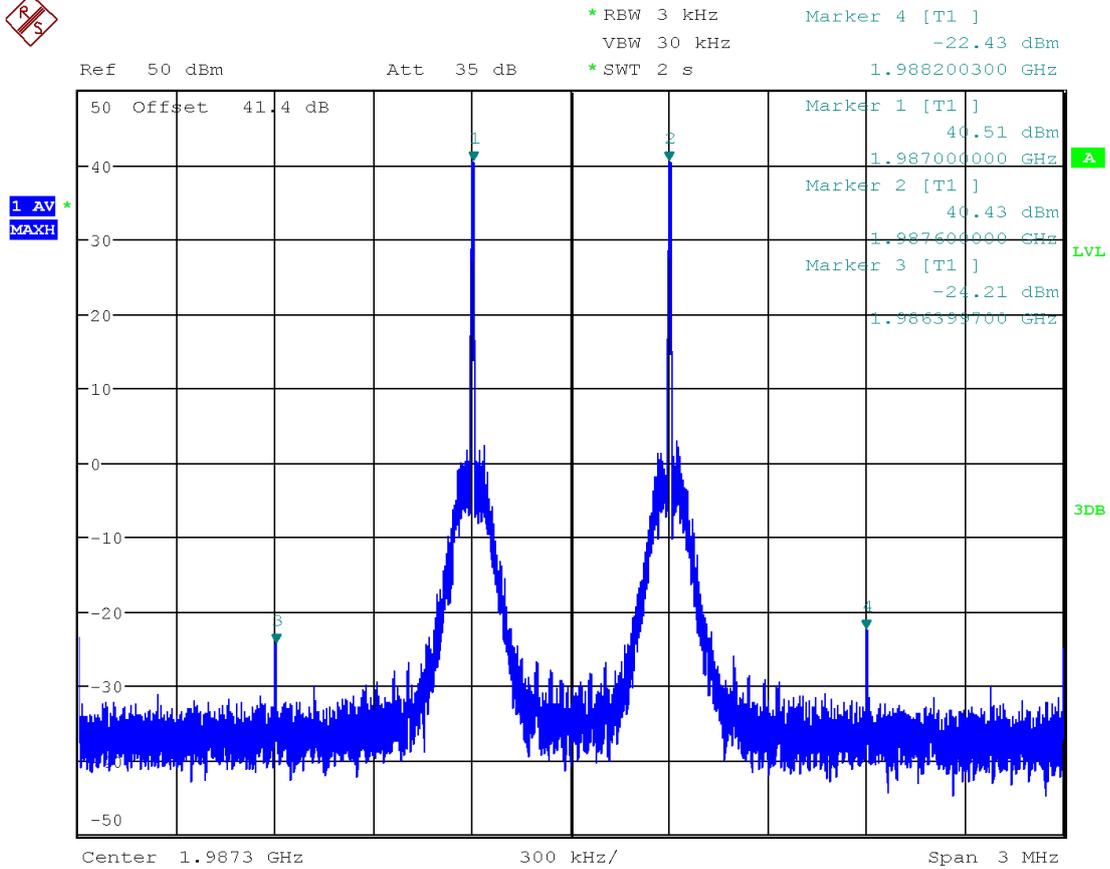
Date: 15.NOV.2013 10:32:50

2.1.2.5 DL_2CW_T_ANTA



Date: 15.NOV.2013 11:23:32

2.1.2.6 DL_2CW_T_ANTB



Date: 15.NOV.2013 10:36:50



Appendix I: Amplifier Gain and Bandwidth and Out of Band Rejection

1 Result Table

1.1.1 Uplink Test Results

Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

1.1.2 Downlink Test Results

Test item	Test results		Verdict
	ANT Port A	ANT Port B	
Pass band Gain	37.54 dB	37.63 dB	Pass
Authorized Frequency Band	1930-1990 MHz	1930-1990 MHz	Pass
Lower edge of 20dB bandwidth	1928.66 MHz	1928.51 MHz	Pass
Upper edge of 20dB bandwidth	1991.52 MHz	1991.58 MHz	Pass
20 dB bandwidth	62.86 MHz	63.07 MHz	Pass

2 Test Plot

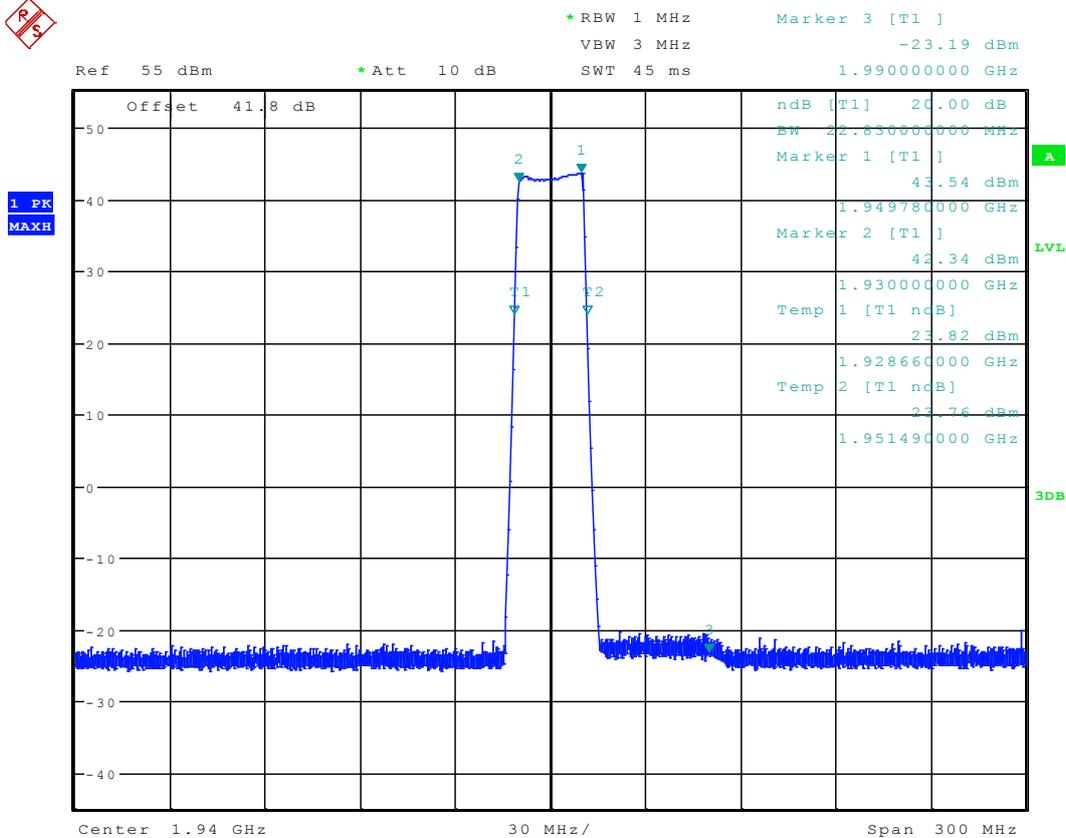
2.1.1 Uplink Test Plots

Not applicable.

Notes: The EUT does not transmit over the air in the uplink direction.

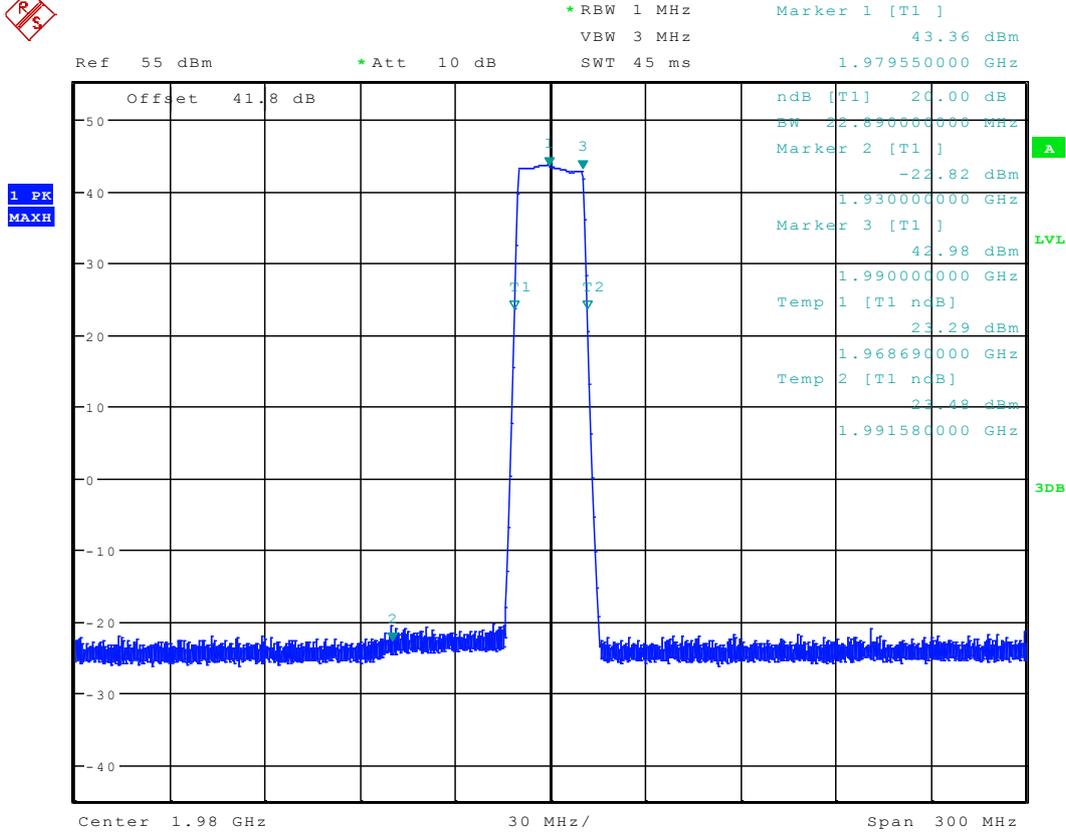
2.1.2 Downlink Test Plots

2.1.2.1 DL_20M_B_ANTA



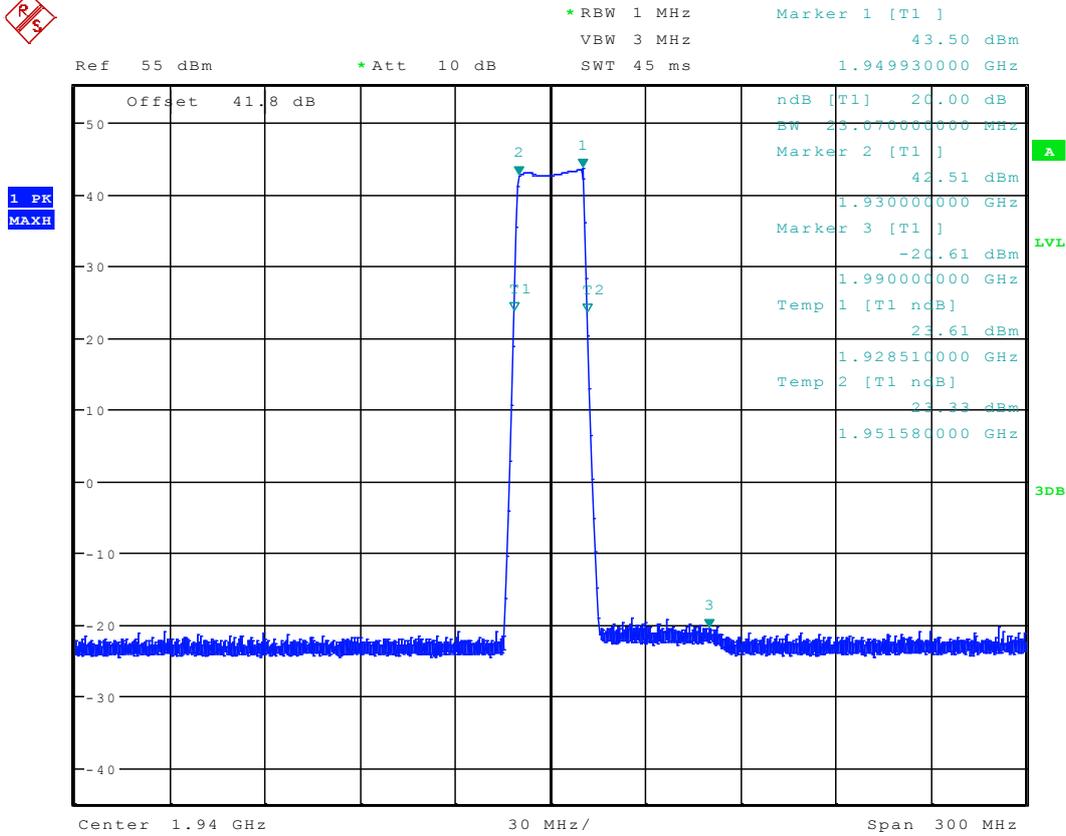
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2.1.2.2 DL_20M_T_ANTA



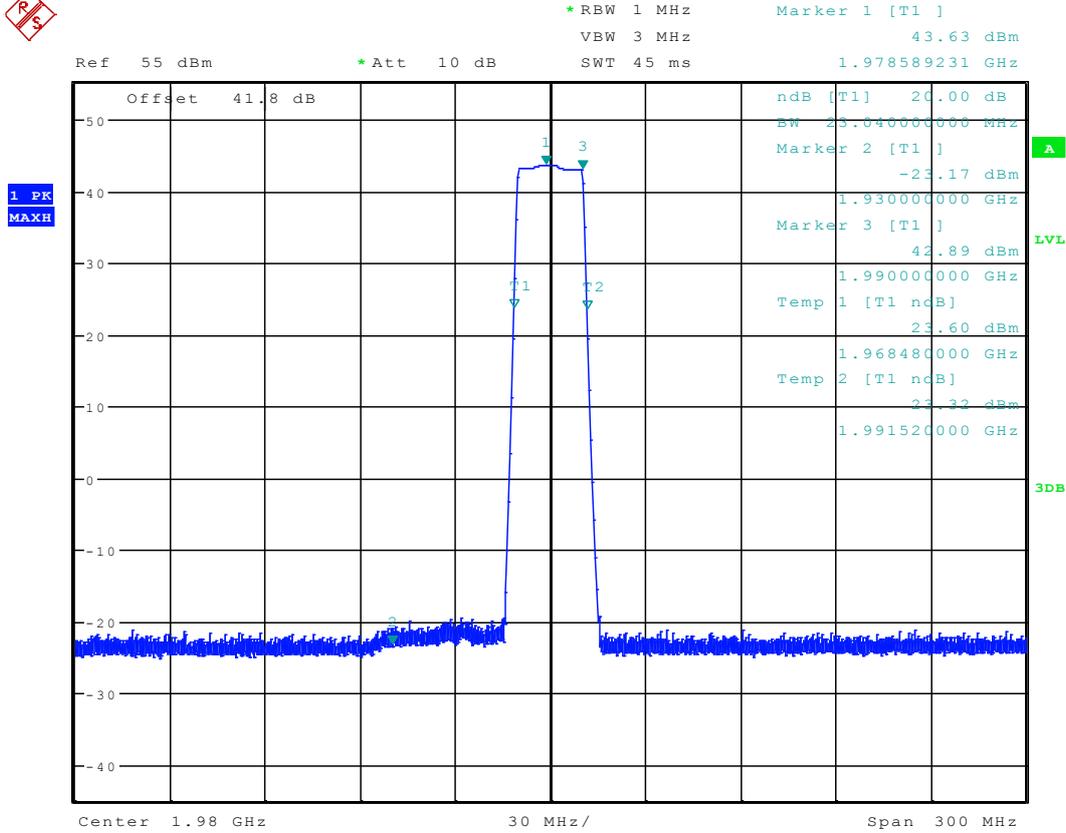
Date: 12.DEC.2013 16:09:52

2.1.2.3 DL_20M_B_ANTB



Date: 12.DEC.2013 16:07:20

2.1.2.4 DL_20M_T_ANTB



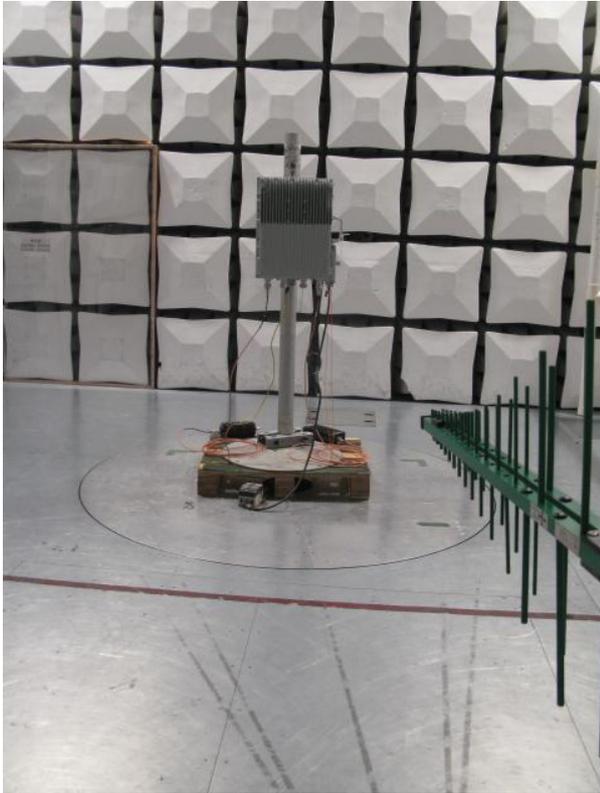
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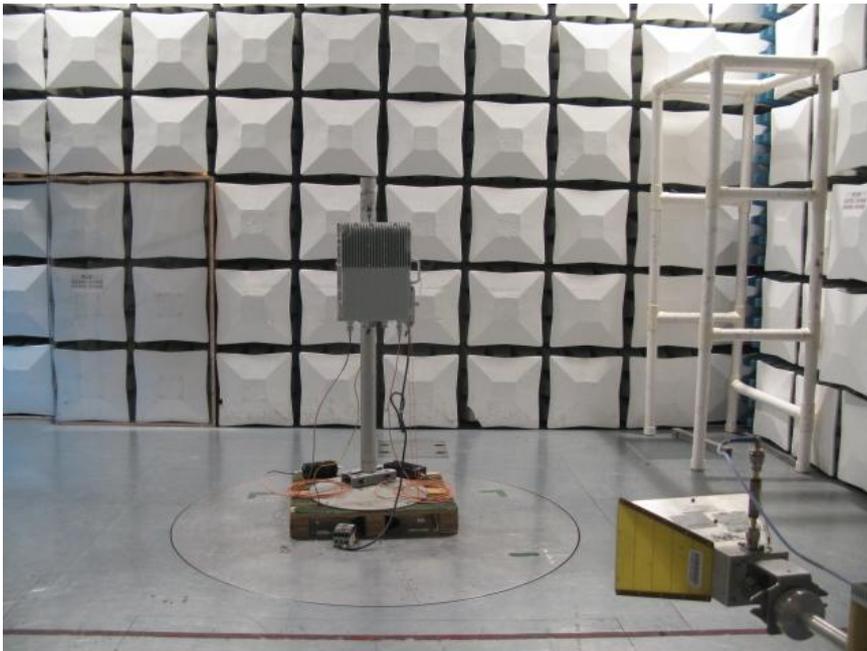
Appendix J: Photos of Test Setups

1 Test Setup 3

1.1 Frequency range below 1 GHz



1.2 Frequency range above 1 GHz



END