

Certification Test Report

**FCC ID: SO4YX110
IC: 5544A-YX110**

**FCC Rule Part: CFR 47 Part 22 Subpart H
IC Radio Standards Specification: RSS-131**

ACS Report Number: 07-0255-LD-22H

**Applicant: Wireless Extenders Inc.
Model: YX110**

**Test Begin Date: February 8, 2008
Test End Date: February 19, 2008**

Report Issue Date: February 25, 2008



FOR THE SCOPE OF ACCREDITATION UNDER LAB Code 200612

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This report contains **32** pages

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1.0 Occupied Bandwidth (Input vs. Output)

1.1 Uplink

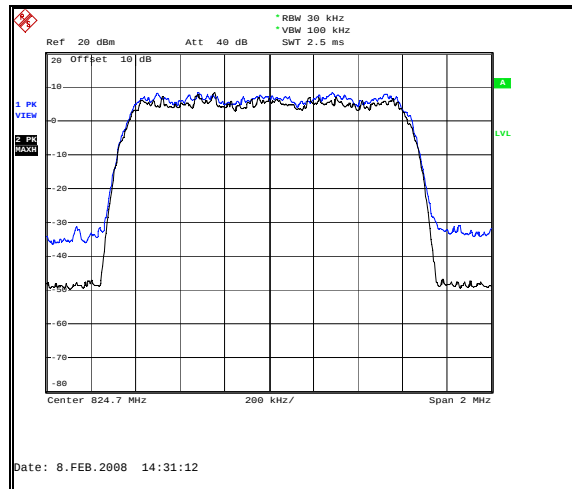


Figure 1: Occupied Bandwidth - Uplink CDMA Low Channel

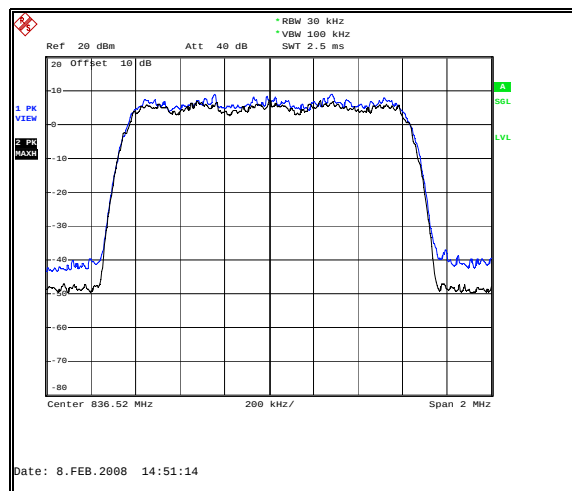


Figure 2: Occupied Bandwidth - Uplink CDMA Mid Channel

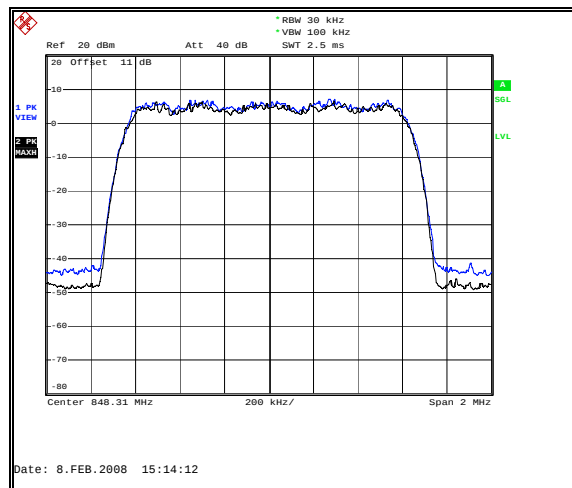


Figure 3: Occupied Bandwidth - Uplink CDMA High Channel

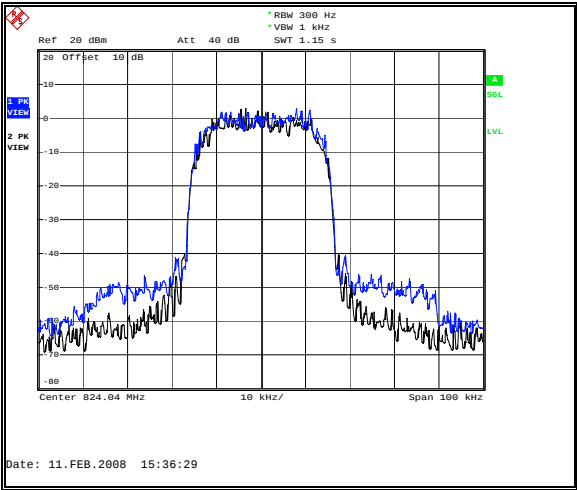


Figure 4: Occupied Bandwidth - Uplink TDMA Low Channel

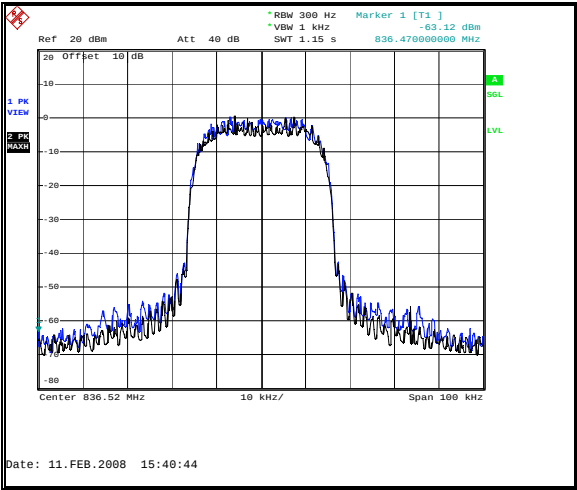


Figure 5: Occupied Bandwidth - Uplink TDMA Mid Channel

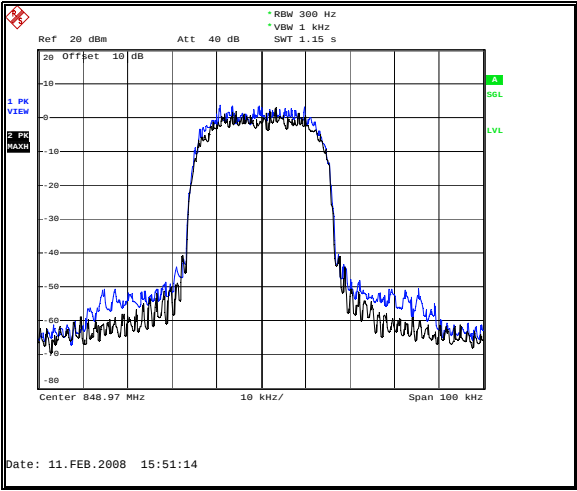


Figure 6: Occupied Bandwidth - Uplink TDMA High Channel

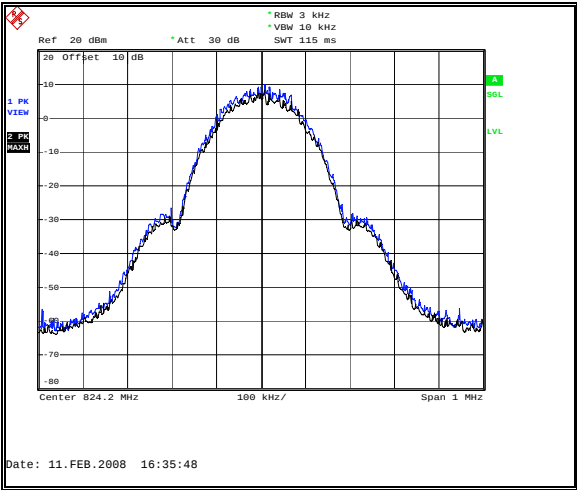


Figure 7: Occupied Bandwidth - Uplink GSM Low Channel

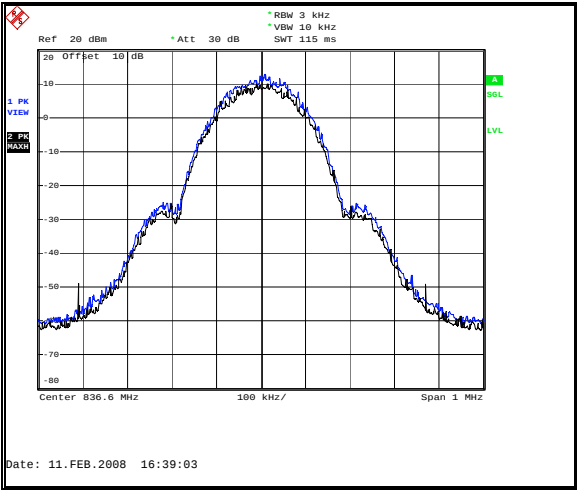


Figure 8: Occupied Bandwidth - Uplink GSM Mid Channel

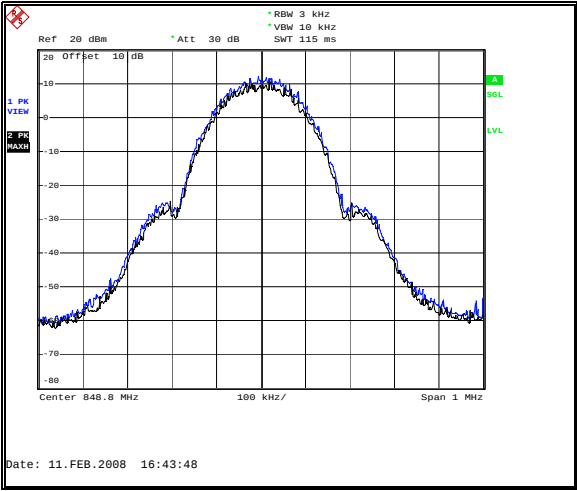


Figure 9: Occupied Bandwidth - Uplink GSM High Channel

1.2 Downlink

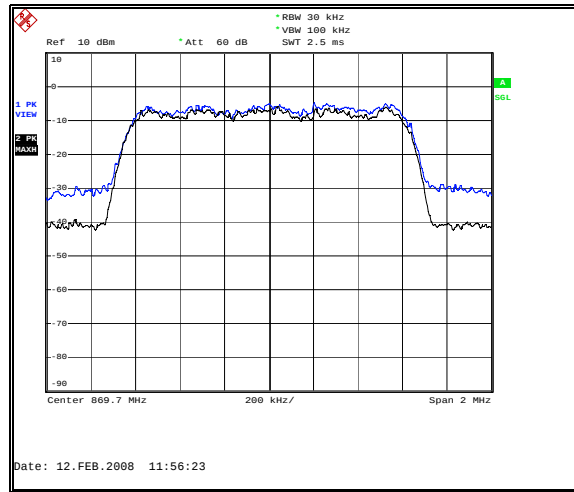


Figure 10: Occupied Bandwidth - Downlink CDMA Low Channel

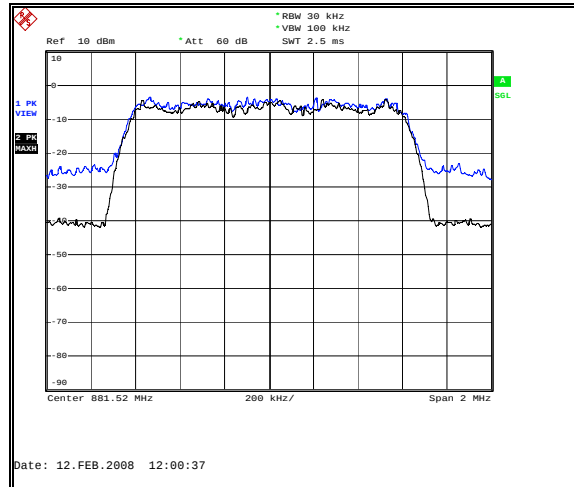


Figure 11: Occupied Bandwidth - Downlink CDMA Mid Channel

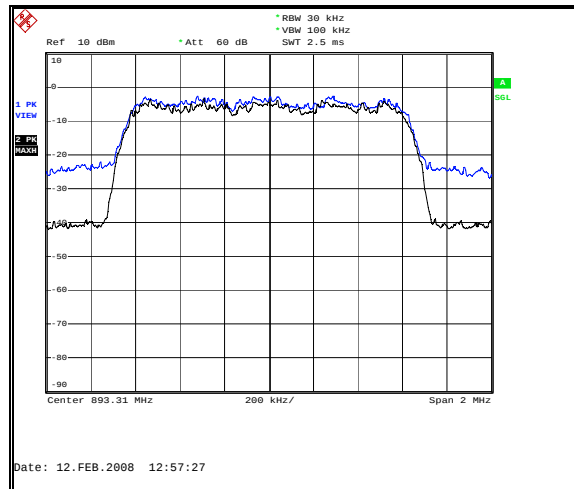


Figure 12: Occupied Bandwidth - Downlink CDMA High Channel

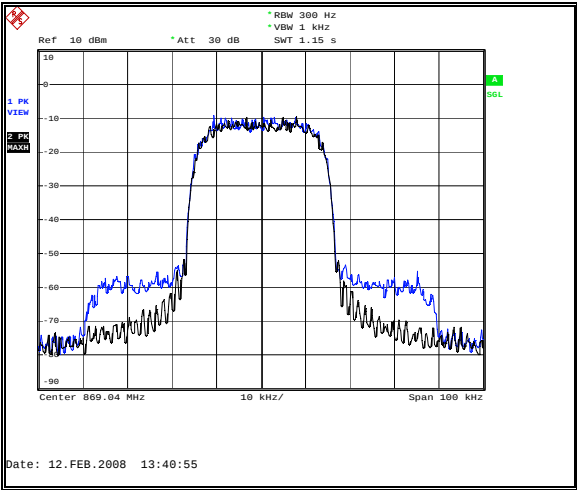


Figure 13: Occupied Bandwidth - Downlink TDMA Low Channel

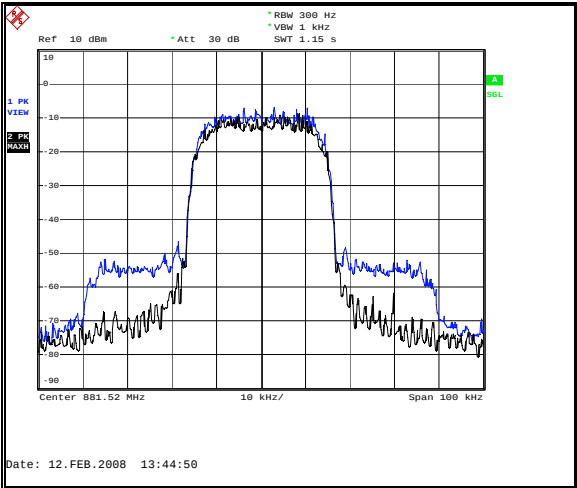


Figure 14: Occupied Bandwidth - Downlink TDMA Mid Channel

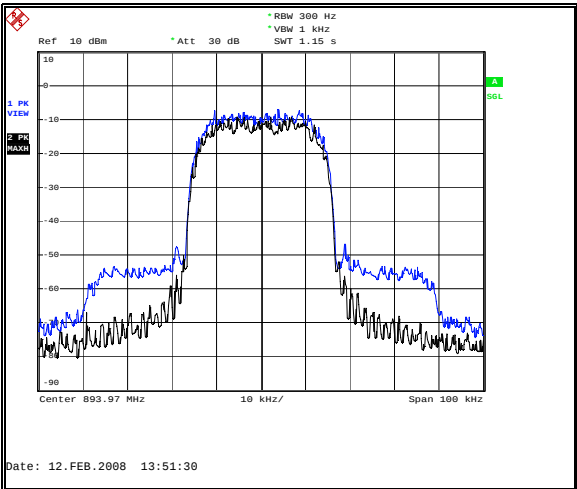


Figure 15: Occupied Bandwidth - Downlink TDMA High Channel

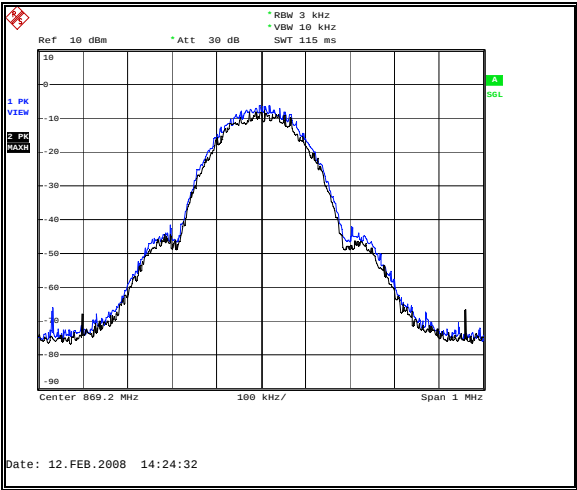


Figure 16: Occupied Bandwidth - Downlink GSM Low Channel

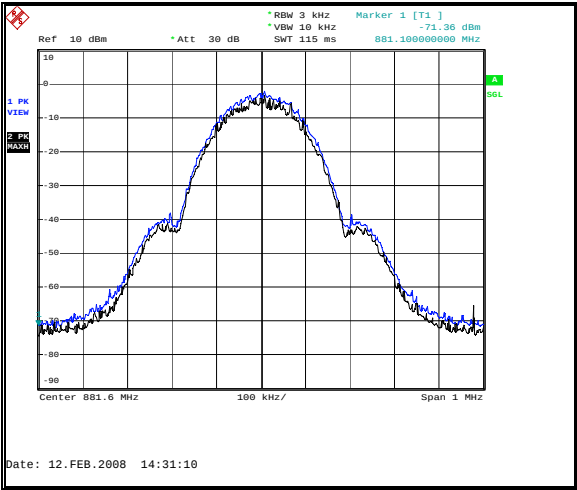


Figure 17: Occupied Bandwidth - Downlink GSM Mid Channel

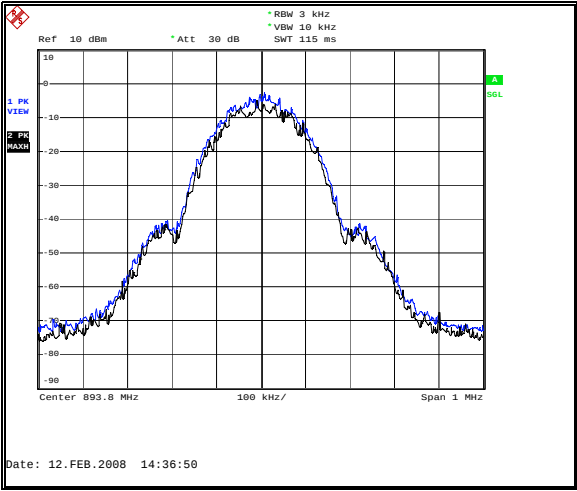


Figure 18: Occupied Bandwidth - Downlink GSM High Channel

2.0 Spurious Emissions at Antenna Terminals and Inter-modulation Products

2.1 CDMA Uplink

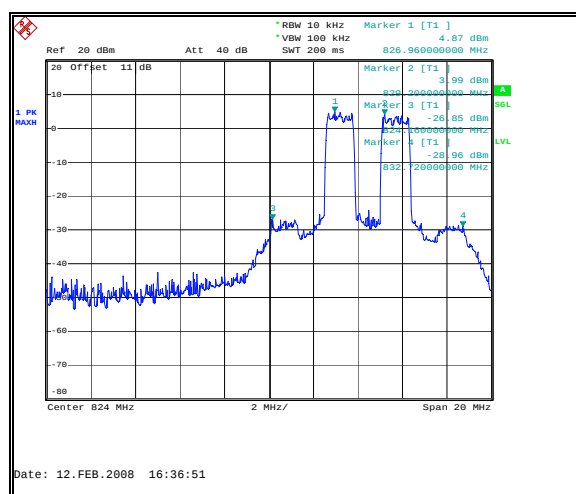


Figure 19: Spurious Emissions - Uplink CDMA Low Channel – Inter-modulation In-Band

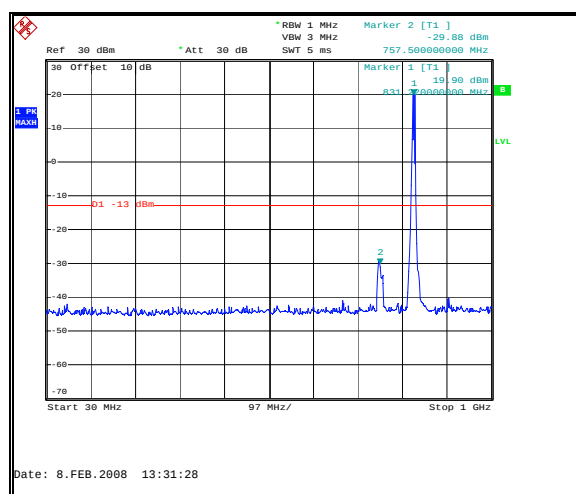


Figure 20: Spurious Emissions - Uplink CDMA Low Channel – Inter-modulation - 30 MHz to 1 GHz

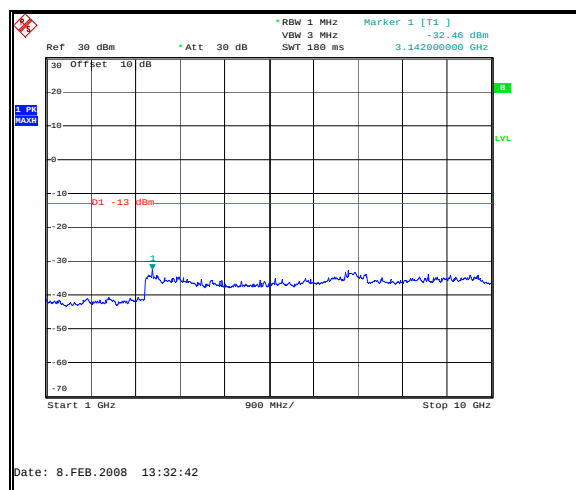


Figure 21: Spurious Emissions - Uplink CDMA Low Channel – Inter-modulation - 1 to 10 GHz

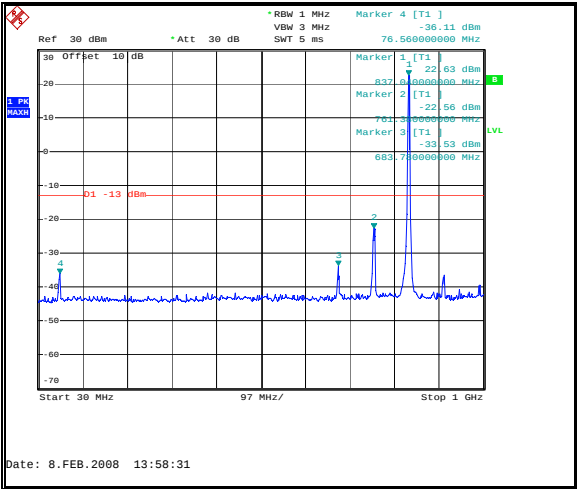


Figure 22: Spurious Emissions - Uplink CDMA Mid Channel – 30 MHz to 1 GHz

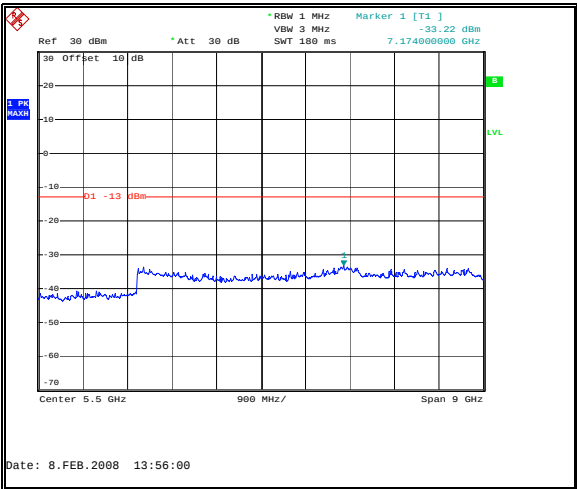


Figure 23: Spurious Emissions - Uplink CDMA Mid Channel – 1 to 10 GHz

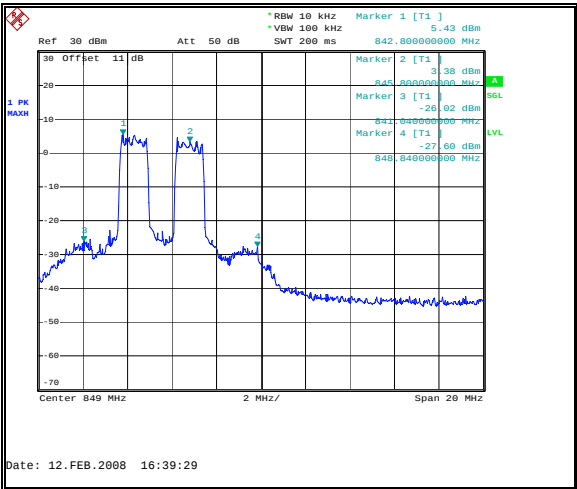


Figure 24: Spurious Emissions - Uplink CDMA High Channel – Inter-modulation In-Band

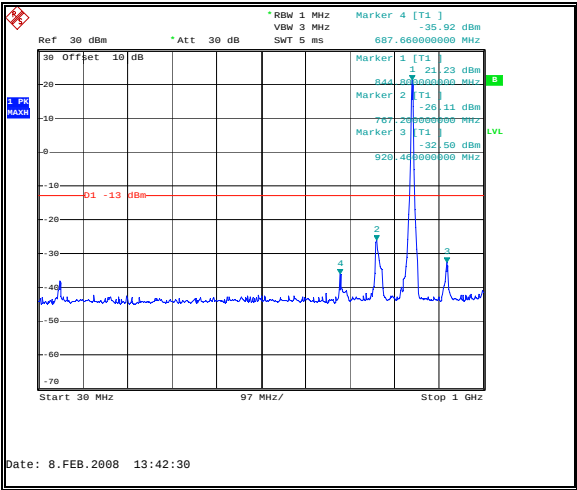


Figure 25: Spurious Emissions - Uplink CDMA High Channel – Inter-modulation - 30 MHz to 1 GHz

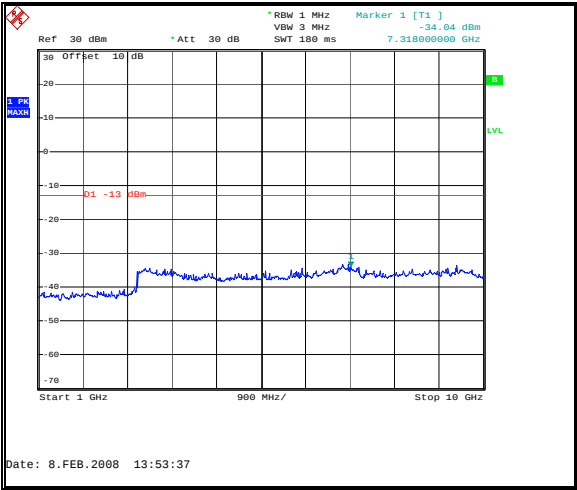


Figure 26: Spurious Emissions - Uplink CDMA High Channel – Inter-modulation - 1 to 10 GHz

2.2 TDMA Uplink

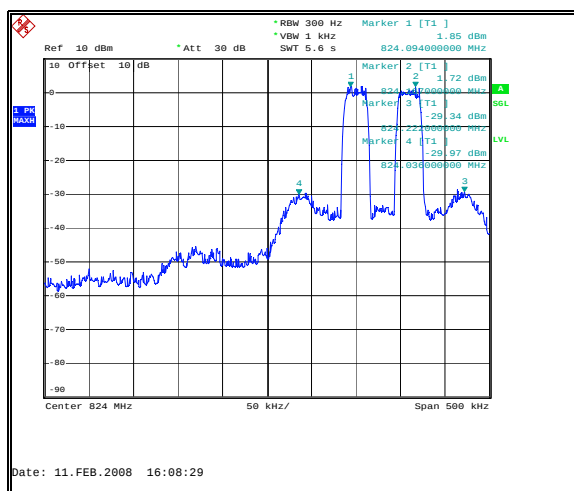


Figure 27: Spurious Emissions - Uplink TDMA Low Channel – Inter-modulation In-Band

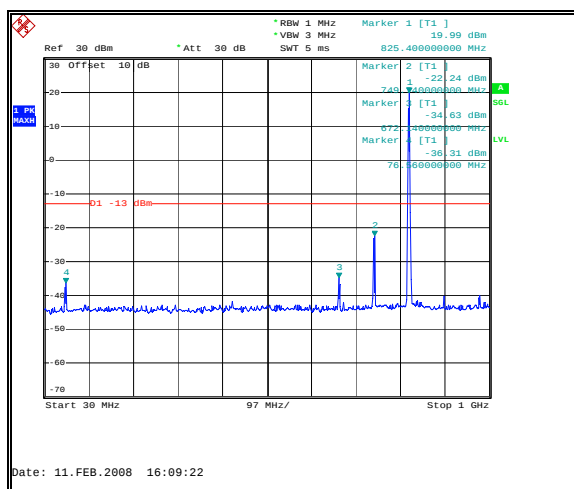


Figure 28: Spurious Emissions - Uplink TDMA Low Channel – Inter-modulation - 30 MHz to 1 GHz

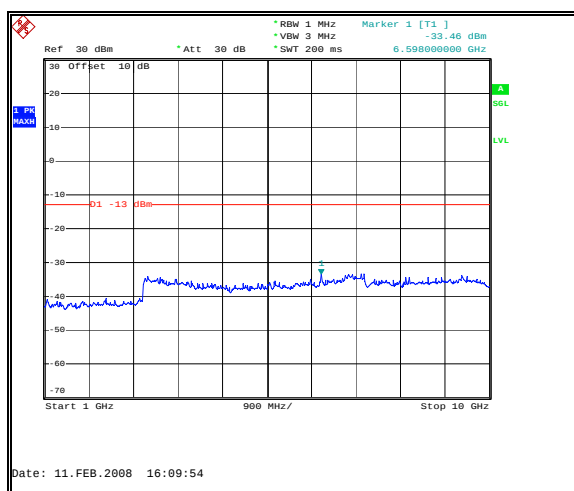


Figure 29: Spurious Emissions - Uplink TDMA Low Channel – Inter-modulation - 1 to 10 GHz

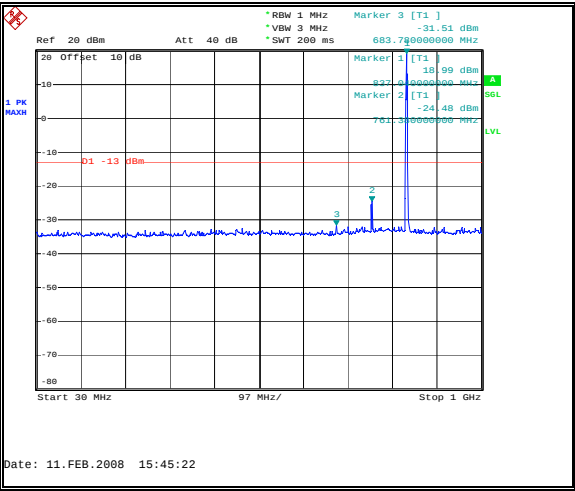


Figure 30: Spurious Emissions - Uplink TDMA Mid Channel – 30 MHz to 1 GHz

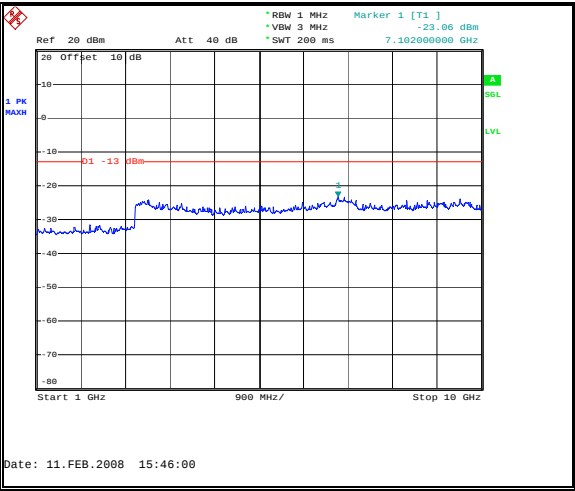


Figure 31: Spurious Emissions - Uplink TDMA Mid Channel – 1 to 10 GHz

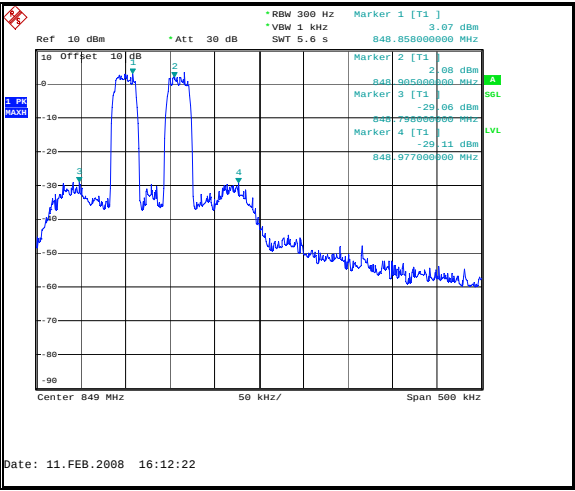


Figure 32: Spurious Emissions - Uplink TDMA High Channel – Inter-modulation In-Band

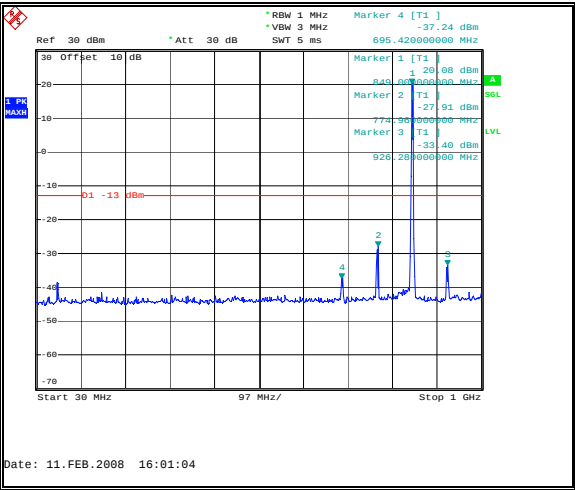


Figure 33: Spurious Emissions - Uplink TDMA High Channel – Inter-modulation - 30 MHz to 1 GHz

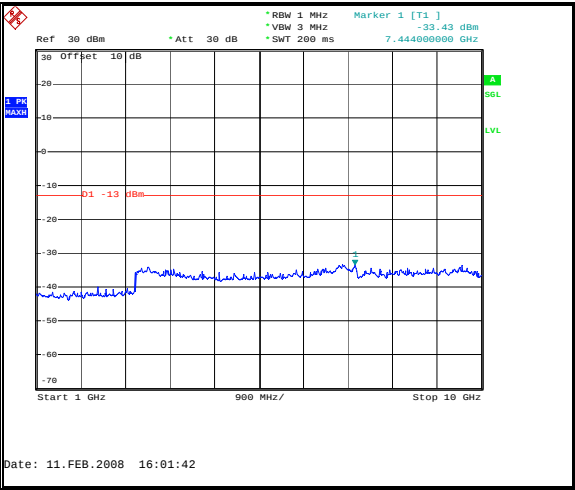


Figure 34: Spurious Emissions - Uplink TDMA High Channel – Inter-modulation - 1 to 10 GHz

2.3 GSM Uplink

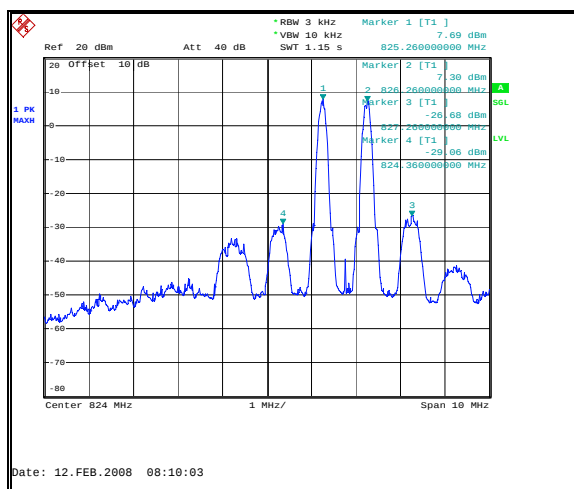


Figure 35: Spurious Emissions - Uplink GSM Low Channel – Inter-modulation In-Band

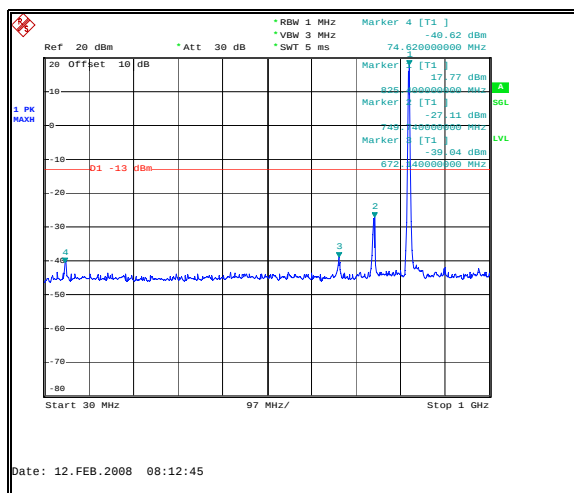


Figure 36: Spurious Emissions - Uplink GSM Low Channel – Inter-modulation - 30 MHz to 1 GHz

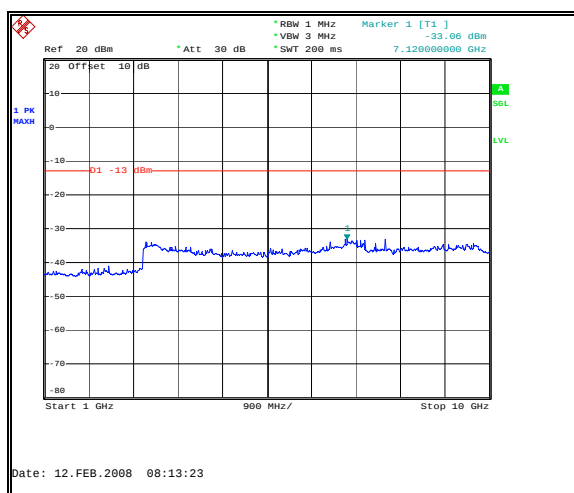


Figure 37: Spurious Emissions - Uplink GSM Low Channel – Inter-modulation - 1 to 10 GHz

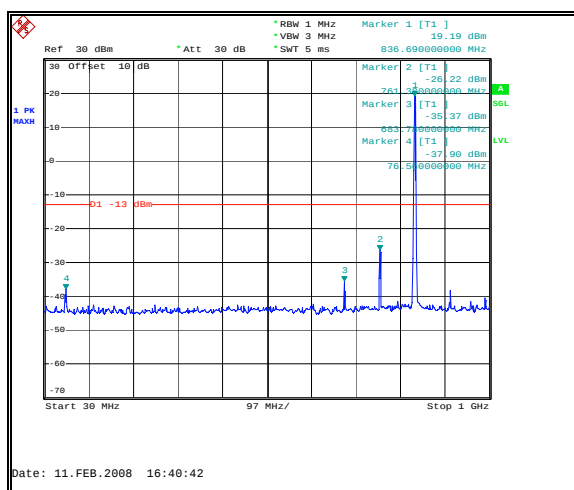


Figure 38: Spurious Emissions - Uplink GSM Mid Channel – 30 MHz to 1 GHz

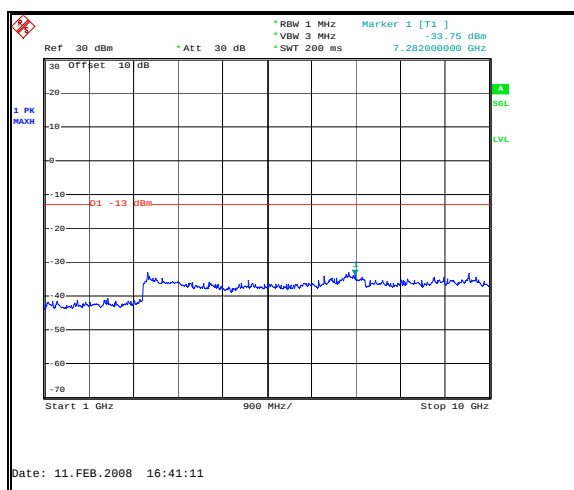


Figure 39: Spurious Emissions – Uplink GSM Mid Channel – 1 to 10 GHz

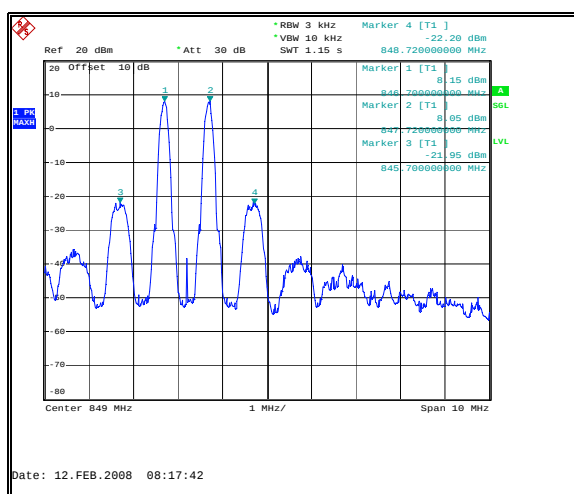


Figure 40: Spurious Emissions - Uplink GSM High Channel – Inter-modulation In-Band

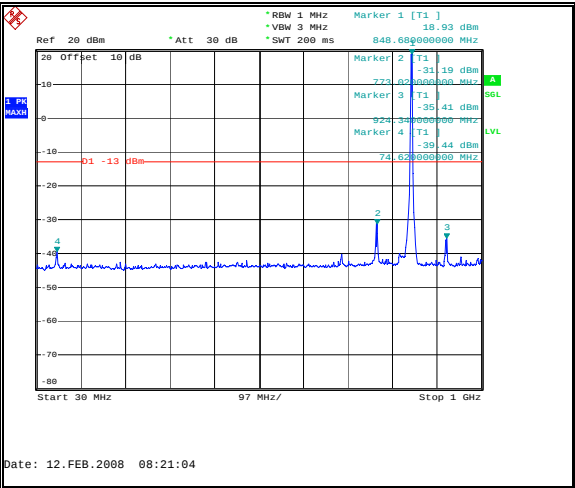


Figure 41: Spurious Emissions - Uplink GSM High Channel – Inter-modulation - 30 MHz to 1 GHz

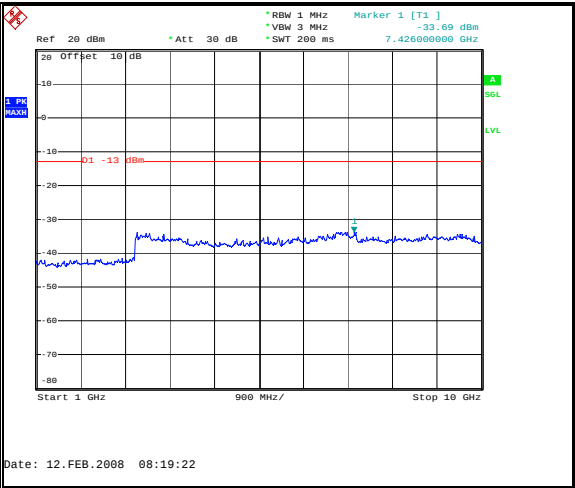


Figure 42: Spurious Emissions - Uplink GSM High Channel – Inter-modulation - 1 to 10 GHz

2.4 CDMA Downlink

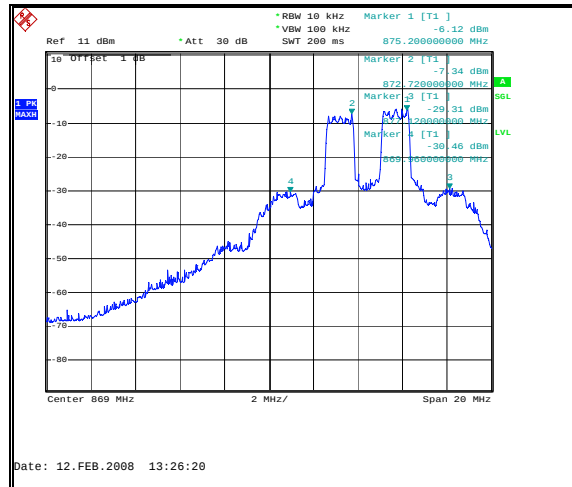


Figure 43: Spurious Emissions - Downlink CDMA Low Channel – Inter-modulation In-Band

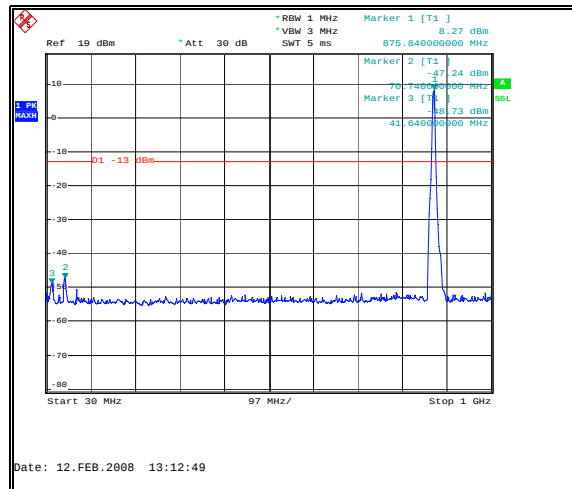


Figure 44: Spurious Emissions - Downlink CDMA Low Channel – Inter-modulation-30MHz to 1GHz

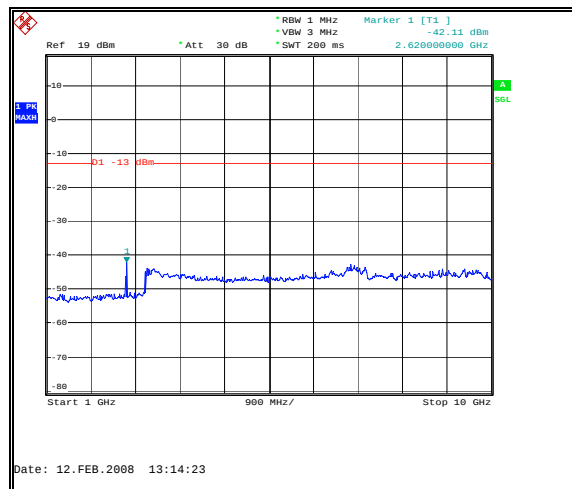


Figure 45: Spurious Emissions - Downlink CDMA Low Channel – Inter-modulation - 1 to 10 GHz

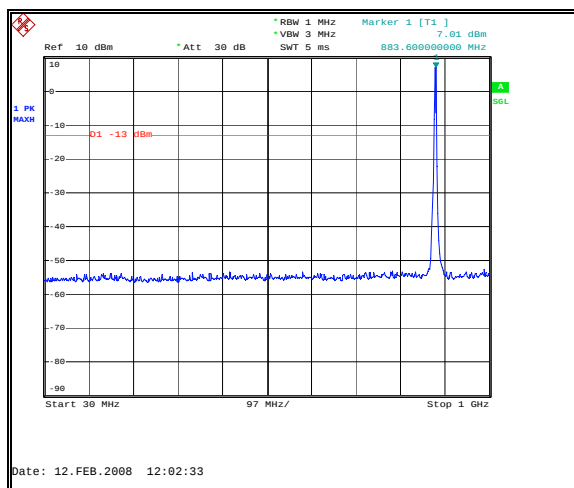


Figure 46: Spurious Emissions - Downlink CDMA Mid Channel – 30 MHz to 1 GHz

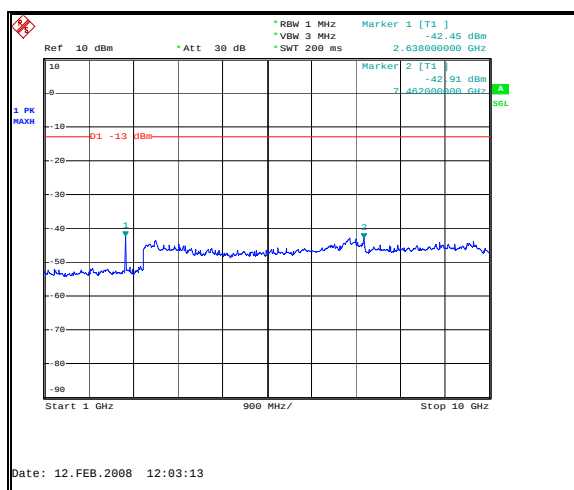


Figure 47: Spurious Emissions - Downlink CDMA Mid Channel – 1 to 10 GHz

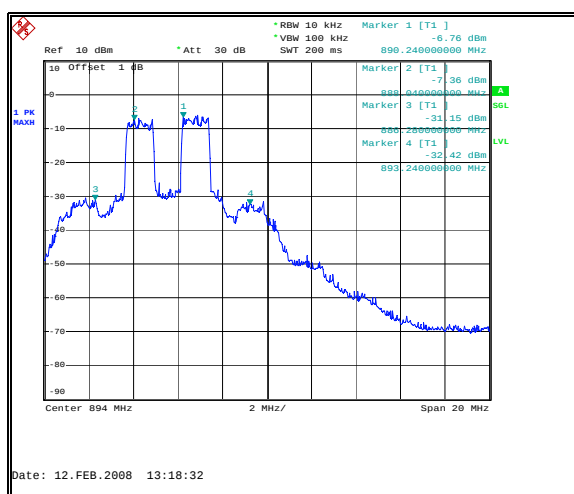


Figure 48: Spurious Emissions - Downlink CDMA High Channel – Inter-modulation In-Band

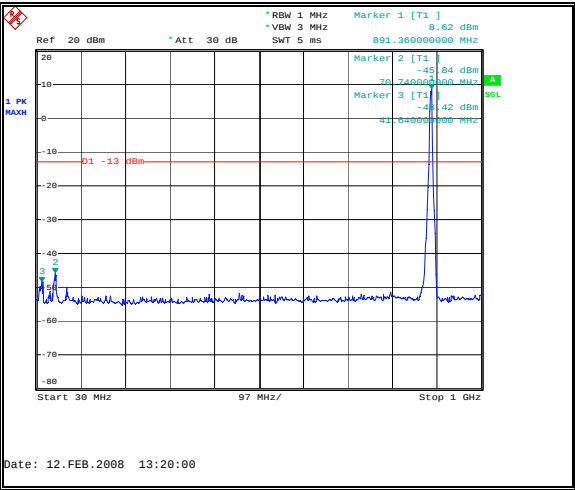


Figure 49: Spurious Emissions - Downlink CDMA High Channel –Inter-modulation-30MHz to 1GHz

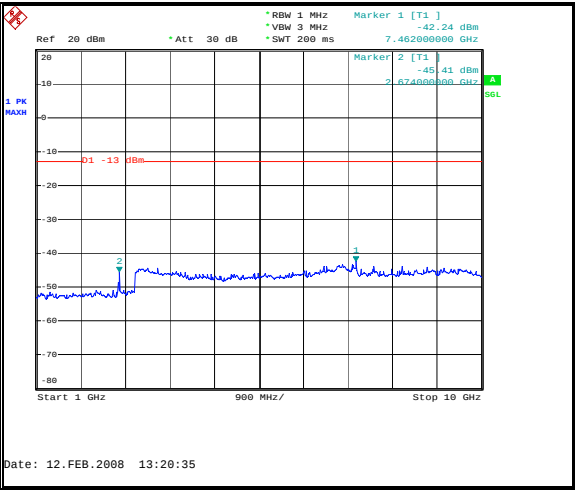


Figure 50: Spurious Emissions - Downlink CDMA High Channel – Inter-modulation - 1 to 10 GHz

2.5 TDMA Downlink

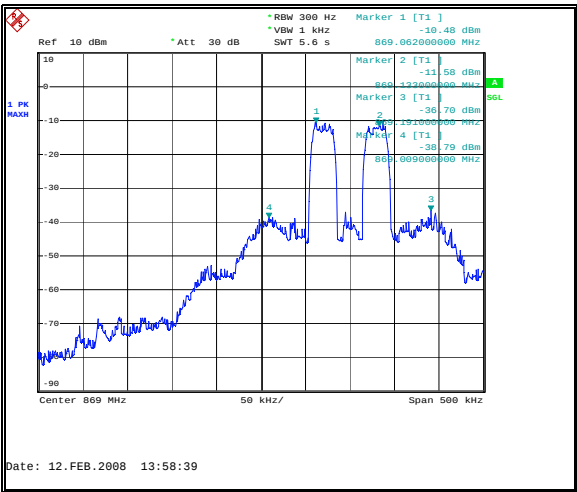


Figure 51: Spurious Emissions - Downlink TDMA Low Channel – Inter-modulation In-Band

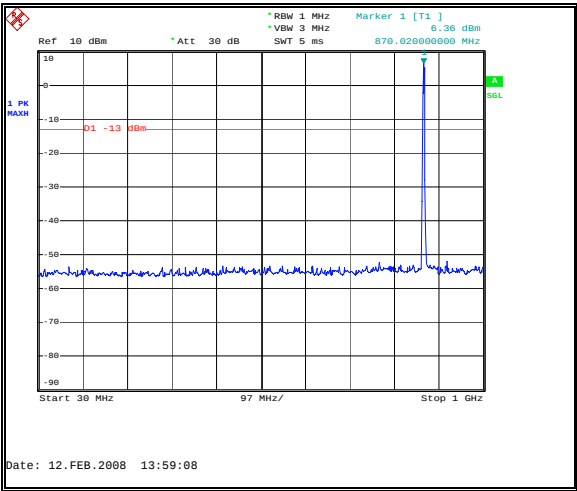


Figure 52: Spurious Emissions - Downlink TDMA Low Channel – Inter-modulation-30MHz to 1GHz

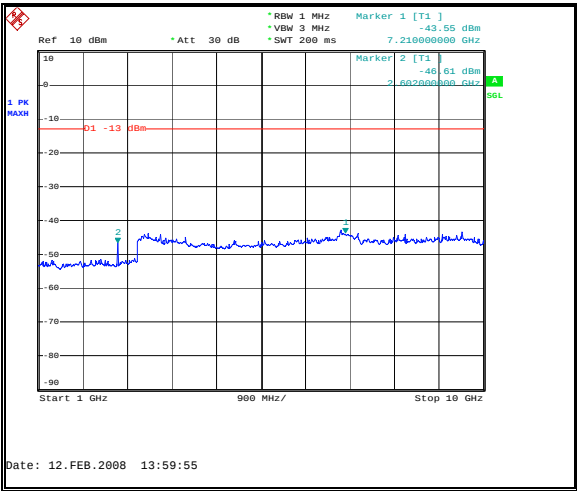


Figure 53: Spurious Emissions - Downlink TDMA Low Channel – Inter-modulation - 1 to 10 GHz

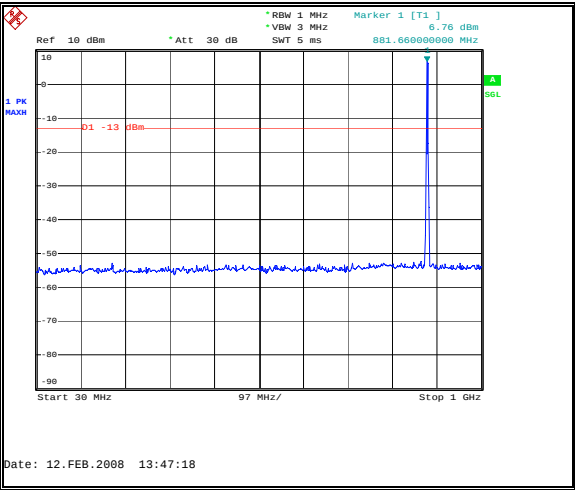


Figure 54: Spurious Emissions - Downlink TDMA Mid Channel – 30 MHz to 1 GHz

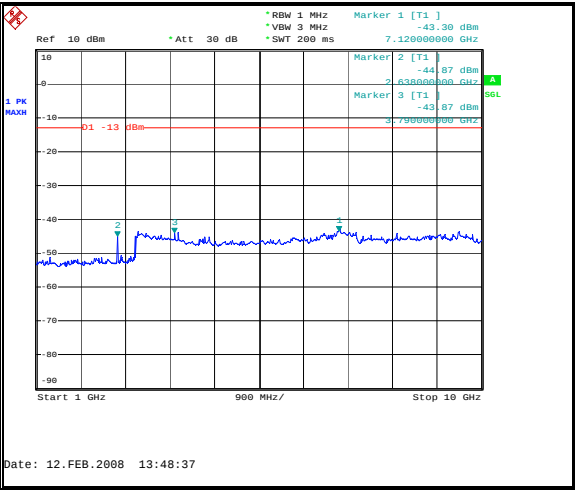


Figure 55: Spurious Emissions - Downlink TDMA Mid Channel – 1 to 10 GHz

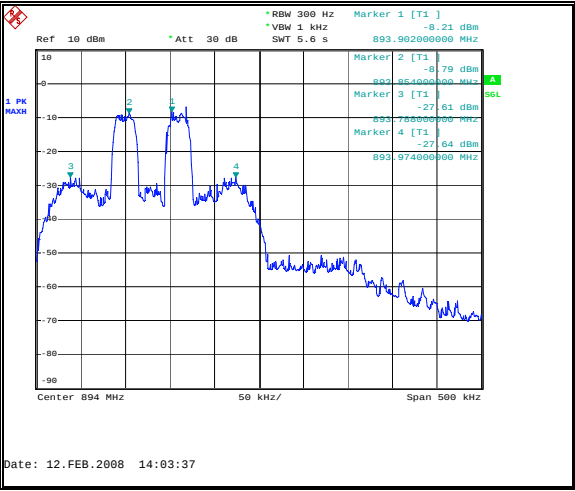


Figure 56: Spurious Emissions - Downlink TDMA High Channel – Inter-modulation In-Band

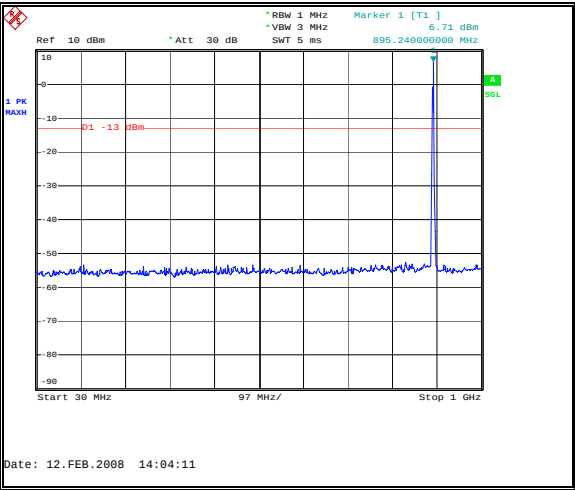


Figure 57: Spurious Emissions - Downlink TDMA High Channel –Inter-modulation-30MHz to 1GHz

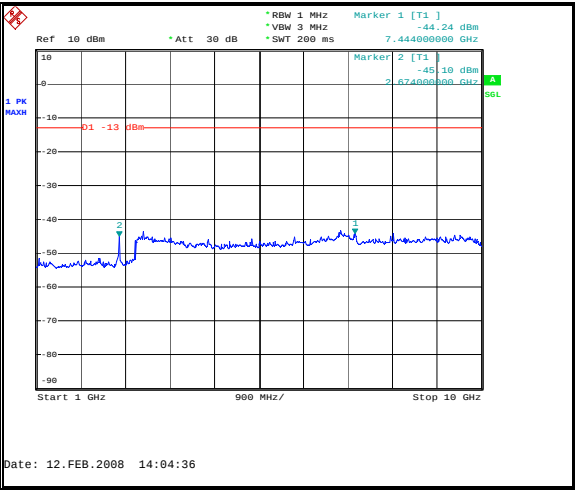


Figure 58: Spurious Emissions - Downlink TDMA High Channel – Inter-modulation - 1 to 10 GHz

2.6 GSM Downlink

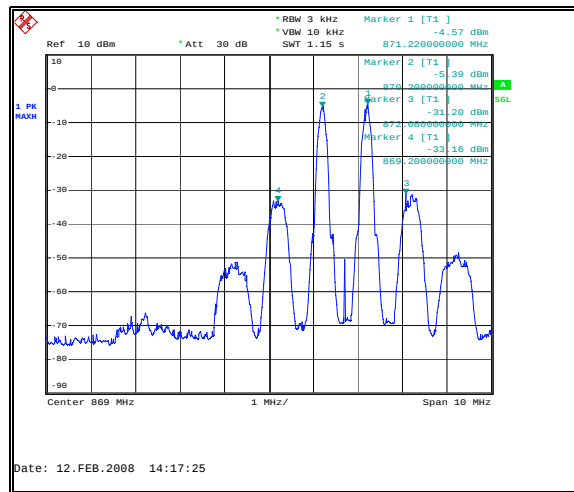


Figure 59: Spurious Emissions - Downlink GSM Low Channel – Inter-modulation In-Band

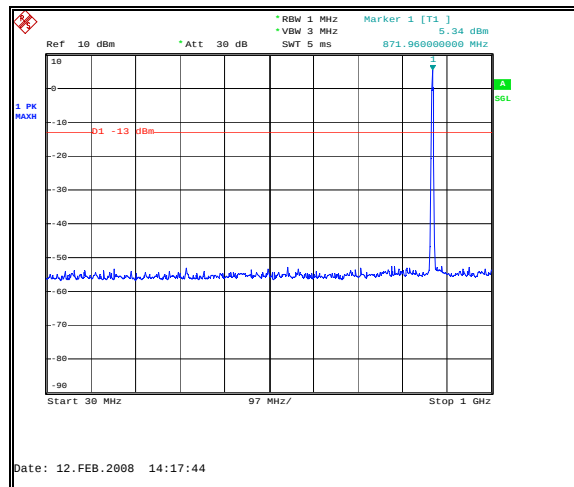


Figure 60: Spurious Emissions - Downlink GSM Low Channel – Inter-modulation - 30 MHz to 1 GHz

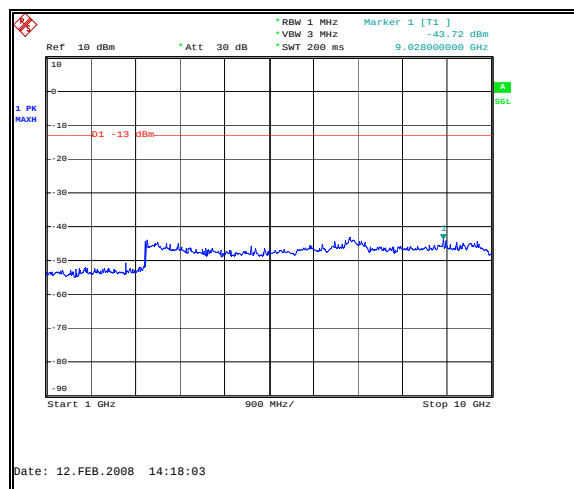


Figure 61: Spurious Emissions - Downlink GSM Low Channel – Inter-modulation - 1 to 10 GHz

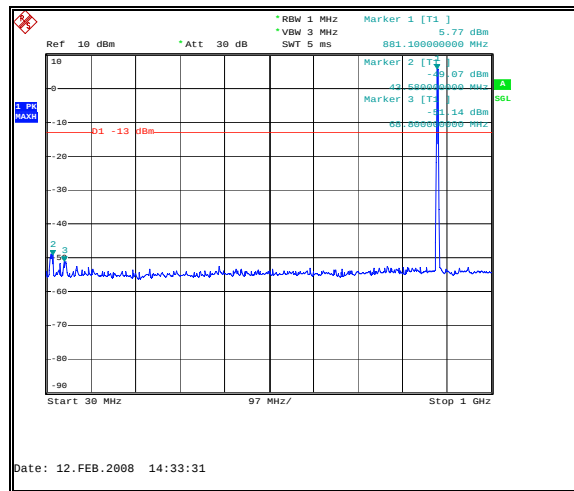


Figure 62: Spurious Emissions - Downlink GSM Mid Channel – 30 MHz to 1 GHz

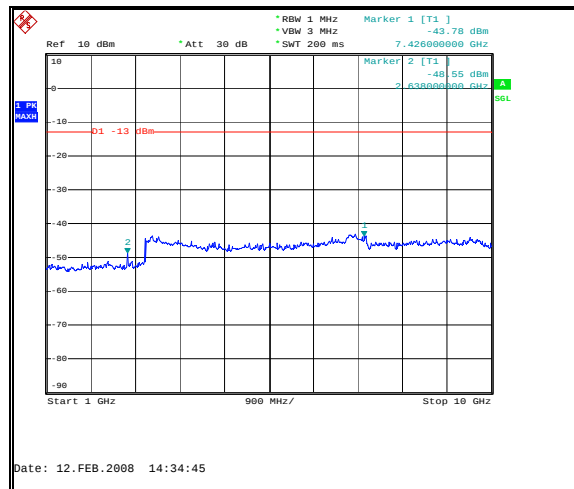


Figure 63: Spurious Emissions - Downlink GSM Mid Channel – 1 to 10 GHz

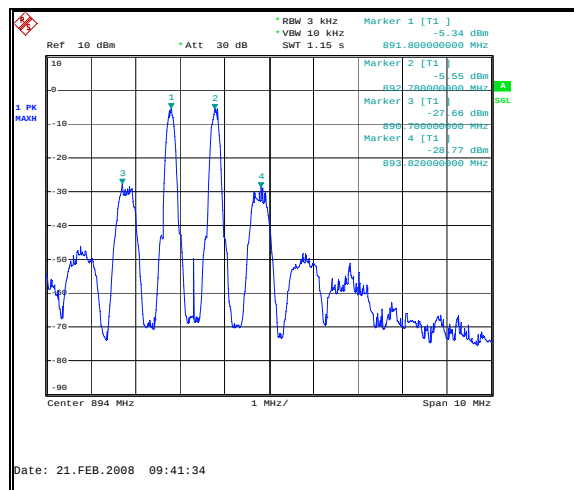


Figure 64: Spurious Emissions - Downlink GSM High Channel – Inter-modulation In-Band

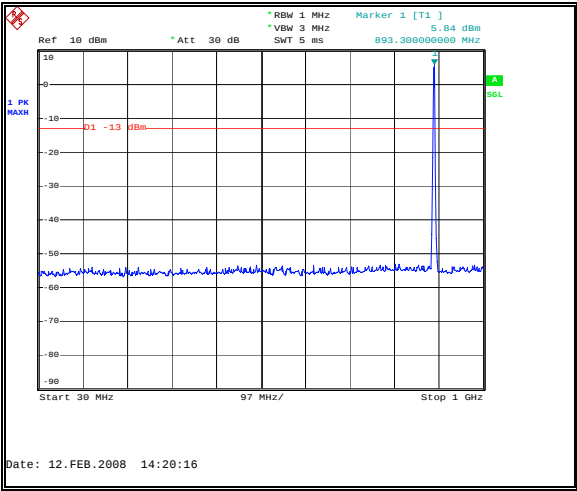


Figure 65: Spurious Emissions - Downlink GSM High Channel – Inter-modulation - 30 MHz to 1 GHz

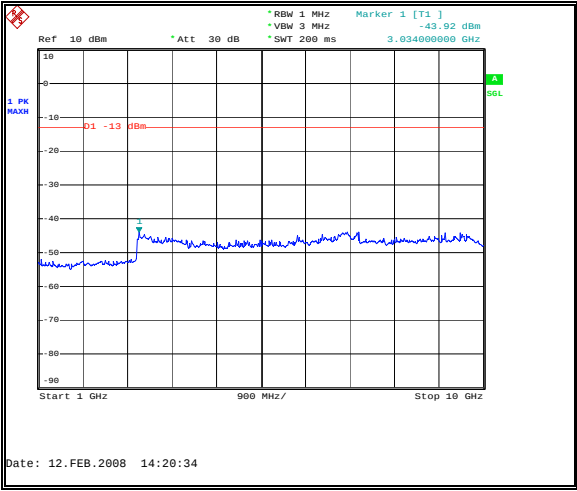


Figure 66: Spurious Emissions - Downlink GSM High Channel – Inter-modulation - 1 to 10 GHz

Band-edge

3.1 CDMA Uplink

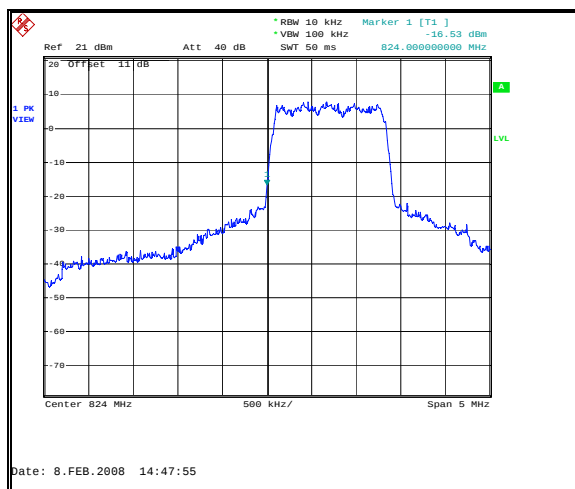


Figure 67: Band-Edge Uplink CDMA Low Channel

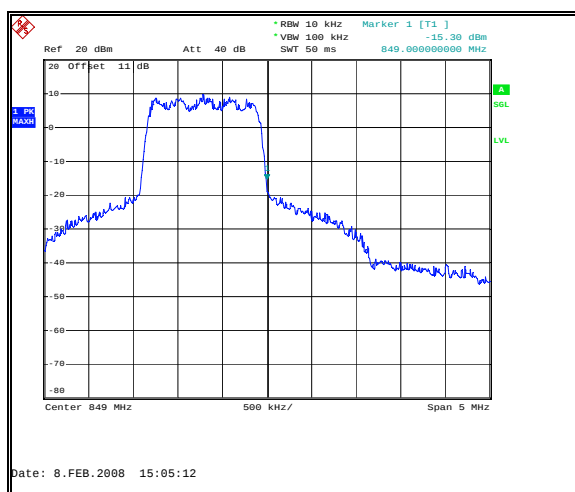


Figure 68: Band-Edge Uplink CDMA High Channel

3.2 TDMA Uplink

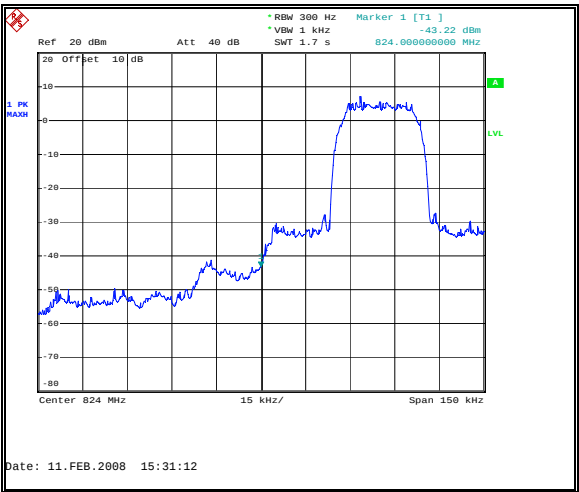


Figure 69: Band-Edge Uplink TDMA Low Channel

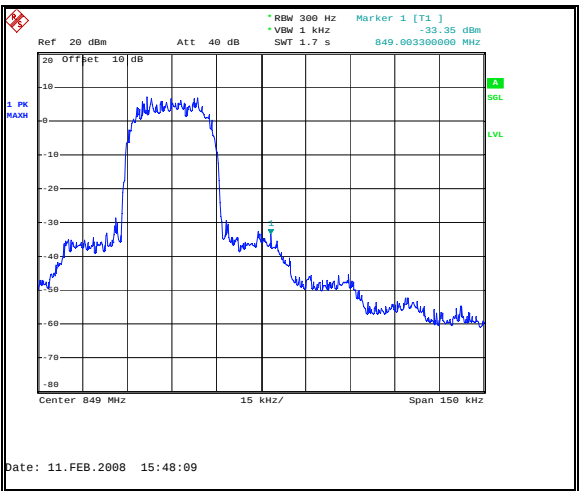


Figure 70: Band-Edge Uplink TDMA High Channel

3.3 GSM Uplink

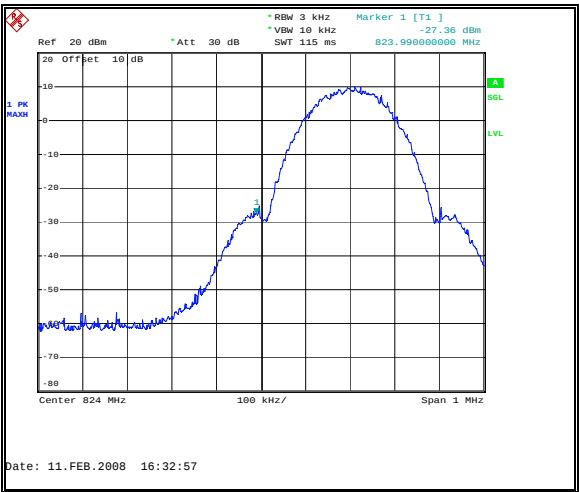


Figure 71: Band-Edge Uplink GSM Low Channel

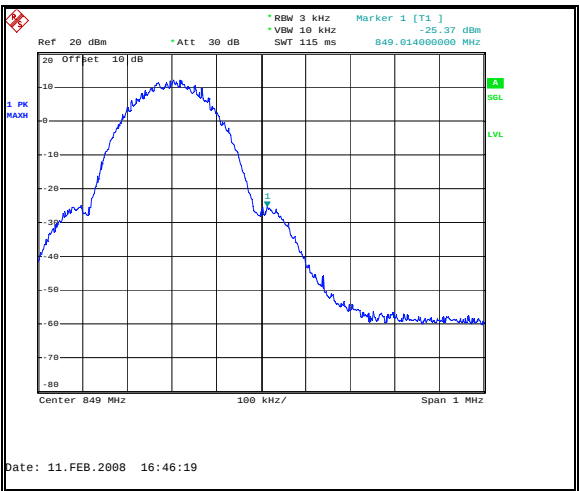


Figure 72: Band-Edge Uplink GSM High Channel

3.4 CDMA Downlink



Figure 73: Band-Edge Downlink CDMA Low Channel

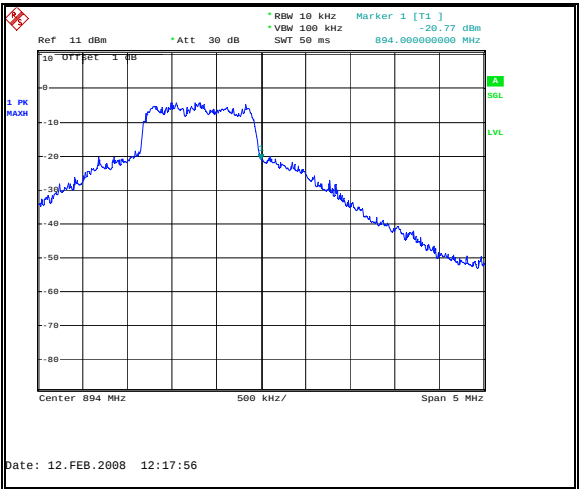


Figure74: Band-Edge Downlink CDMA High Channel

3.5 TDMA Downlink

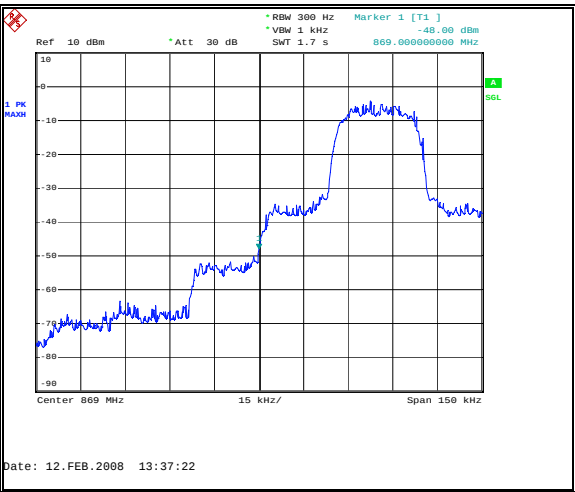


Figure 75: Band-Edge Downlink TDMA Low Channel

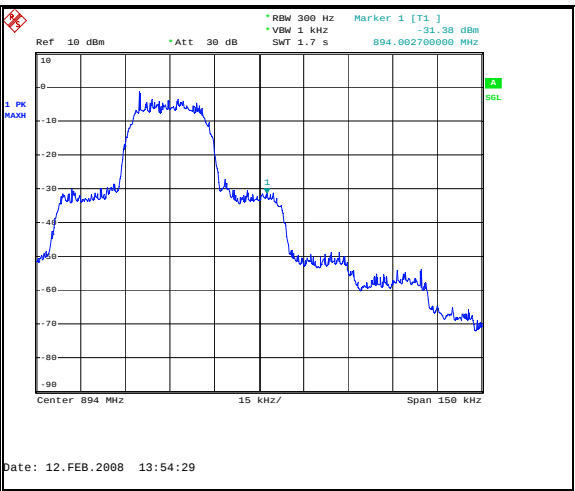


Figure 76: Band-Edge Downlink TDMA High Channel

3.6 GSM Downlink

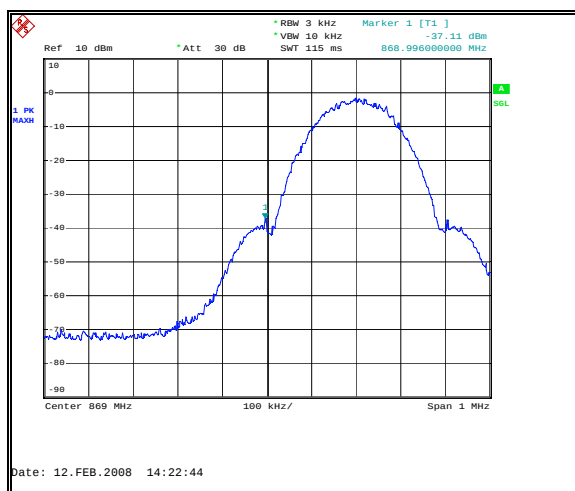


Figure 77: Band-Edge Downlink GSM Low Channel

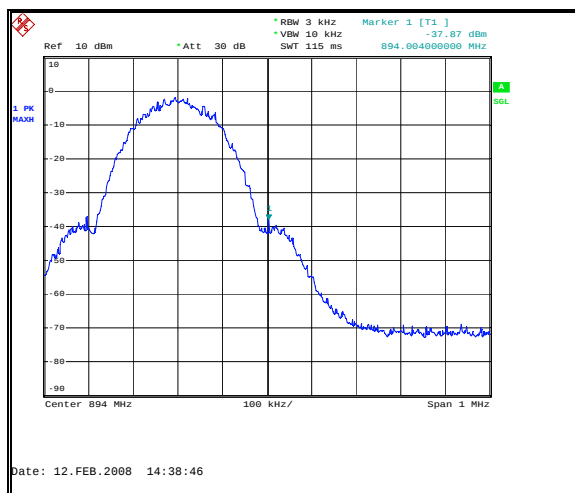


Figure 78: Band-Edge Downlink GSM High Channel

END REPORT