

FCC Part 90 Transmitter Certification

Test Report

FCC ID: DNY0A5EC2900

FCC Rule Part: CFR 47 Part 90

ACS Report Number: 06-0470-90-A

Manufacturer: EMS Wireless
Equipment Type: 900 Paging Fiber Optic DAS
Tradename: EkoCell® II
Model: EC2900

Test Begin Date: February 7, 2007

Test End Date: February 20, 2007

Report Issue Date: February 26, 2007



FOR THE SCOPE OF ACCREDITATION UNDER LAB Code 200612

Prepared by: 
J. Kirby Munroe
Manager Wireless Certifications
ACS, Inc.

Reviewed by: 
R. Sam Wismer
Engineering Manager
ACS, Inc.

This test report shall not be reproduced except in full. This report may be reproduced in part with prior written consent of ACS, Inc. The results contained in this report are representative of the sample(s) submitted for evaluation.

This report contains 12 pages

Table of Contents

1.0 Occupied Bandwidth	
1.1 Downlink	3
2.0 Spurious Emissions at Antenna Terminals and Inter-modulation Products	
2.1 iDEN Downlink	5
2.2 FM Downlink	8
3.0 Band-edge	
3.1 iDEN Downlink	11
3.2 FM Downlink	12

1.0 Occupied Bandwidth (Input vs. Output)

1.1 Downlink

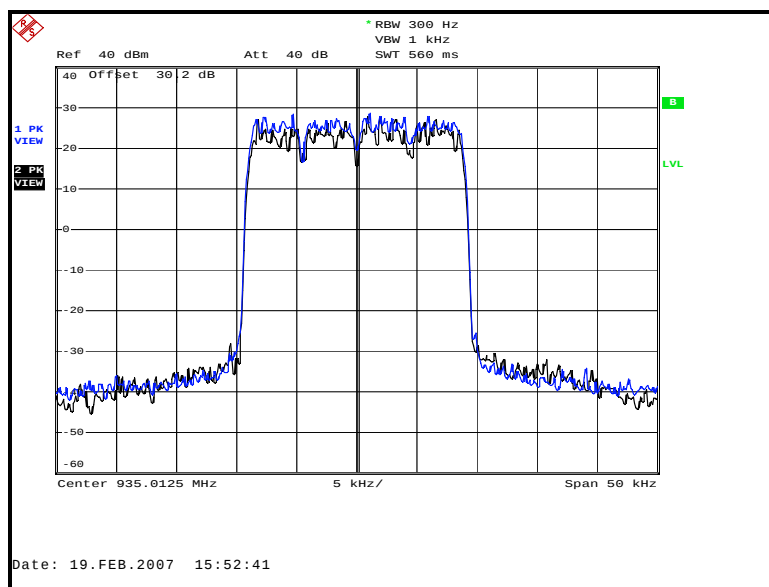


Figure 1: Occupied Bandwidth - Downlink iDEN Low Channel

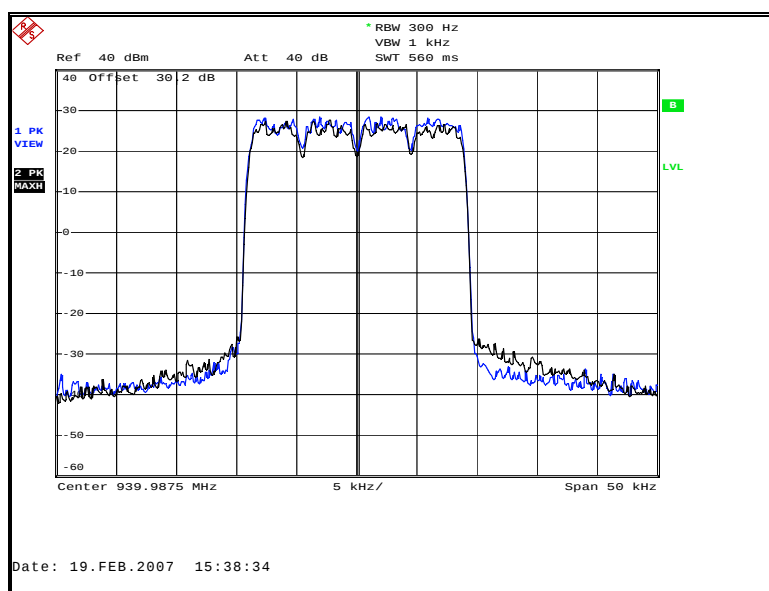


Figure 2: Occupied Bandwidth - Downlink iDEN High Channel

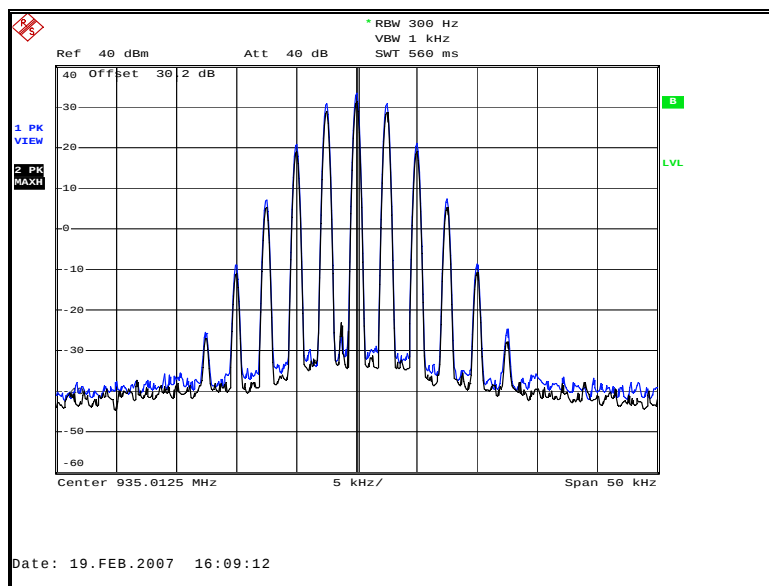


Figure 3: Occupied Bandwidth - Downlink FM Low Channel

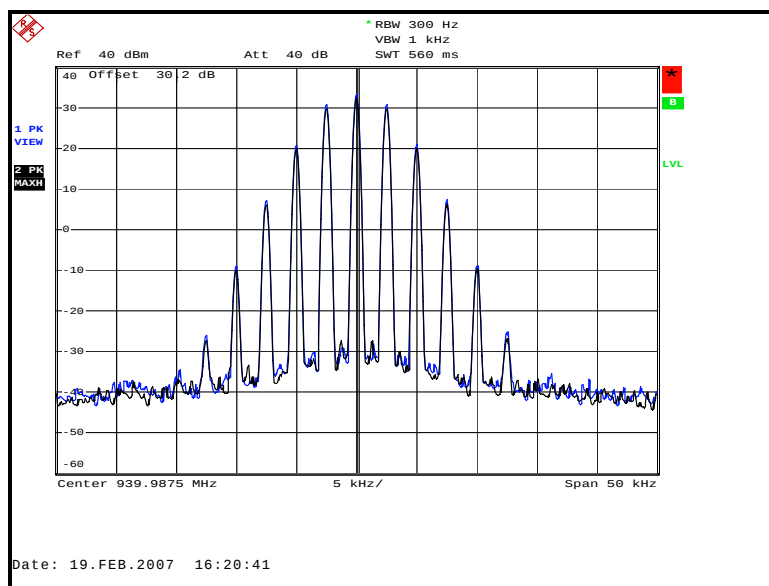


Figure 4: Occupied Bandwidth - Downlink FM High Channel

2.0 Spurious Emissions at Antenna Terminals and Inter-modulation Products

2.1 iDEN Downlink

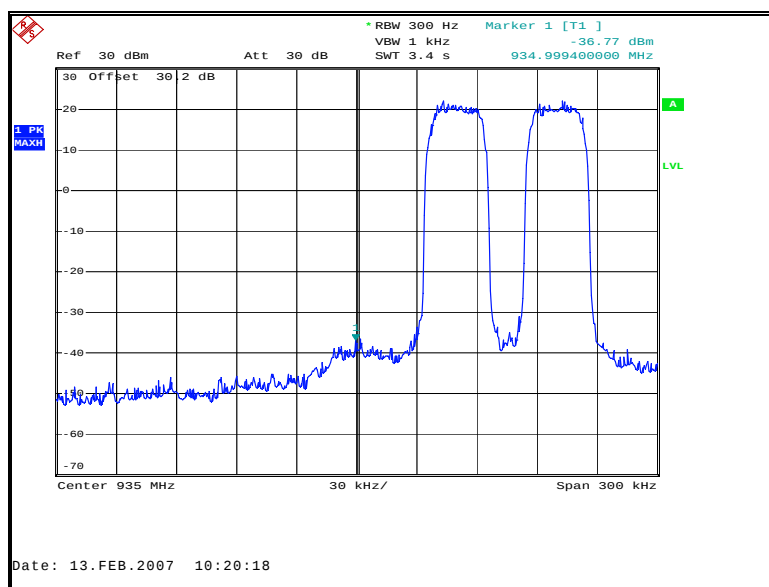


Figure 5: Spurious Emissions - Downlink iDEN Low Channel – Inter-modulation In Band

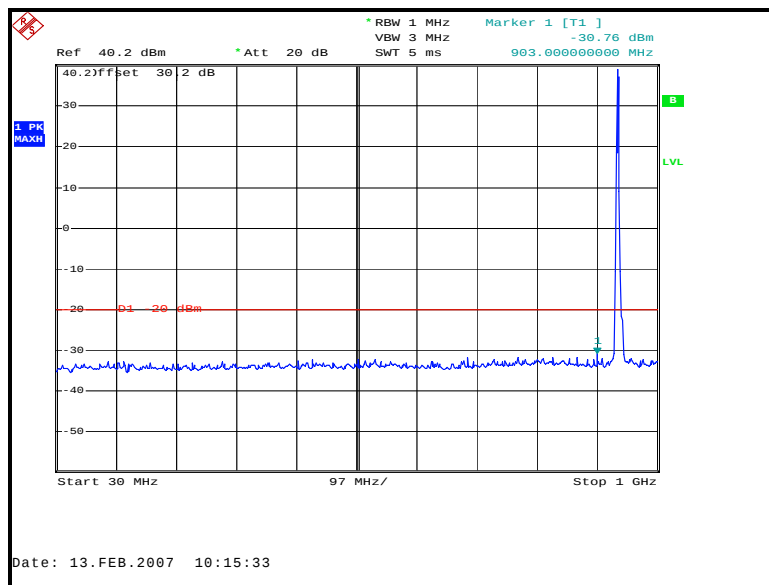


Figure 6: Spurious Emissions - Downlink iDEN Low Channel – Inter-modulation-30MHz to 1GHz

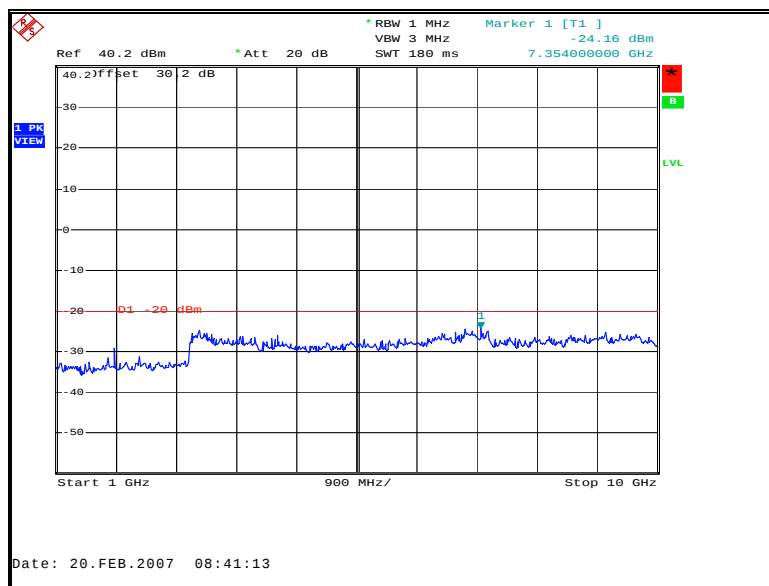


Figure 7: Spurious Emissions - Downlink iDEN Low Channel – Inter-modulation - 1 to 10 GHz

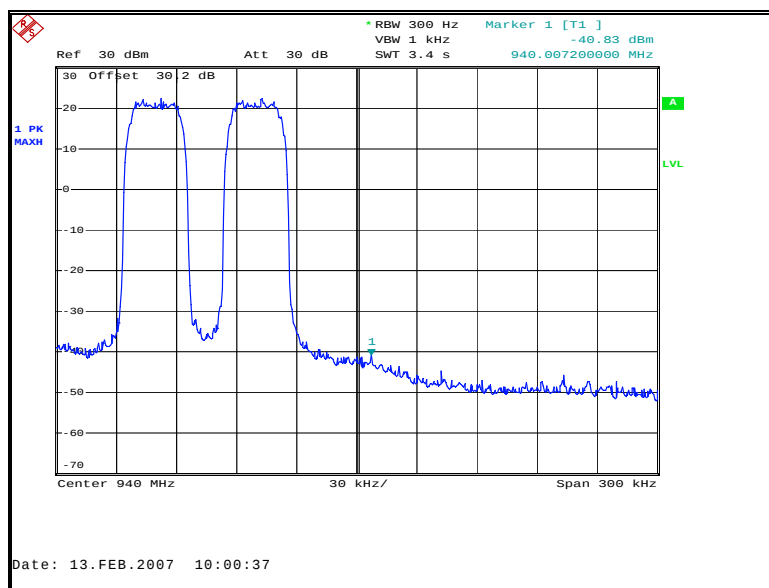


Figure 8: Spurious Emissions - Downlink iDEN High Channel – Inter-modulation In Band

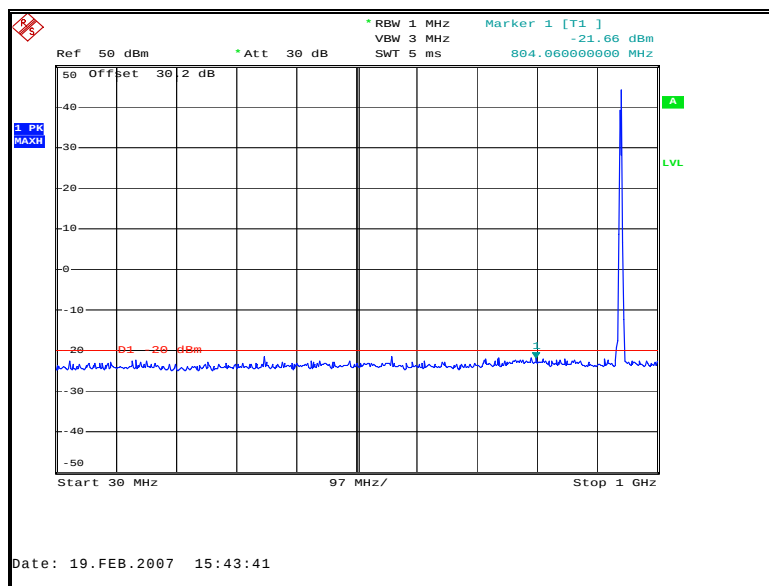


Figure 9: Spurious Emissions - Downlink iDEN High Channel –Inter-modulation-30MHz to 1GHz

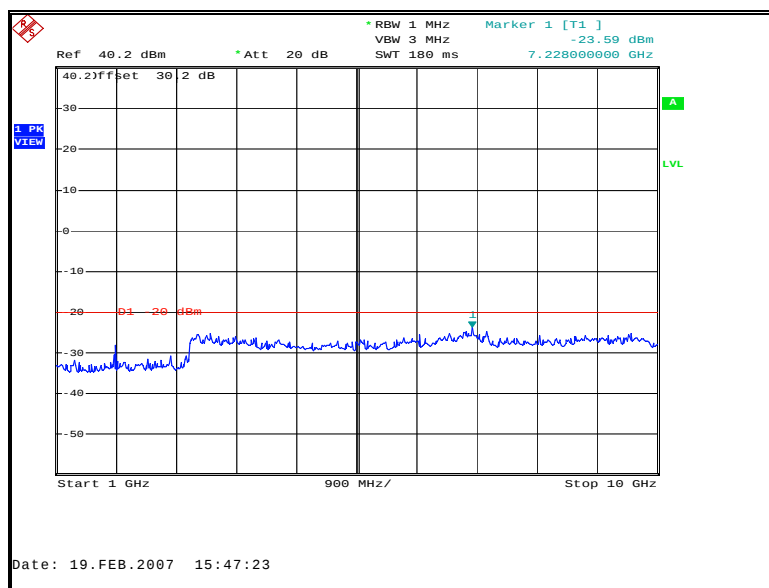


Figure 10: Spurious Emissions - Downlink iDEN High Channel – Inter-modulation - 1 to 10 GHz

2.2 FM Downlink

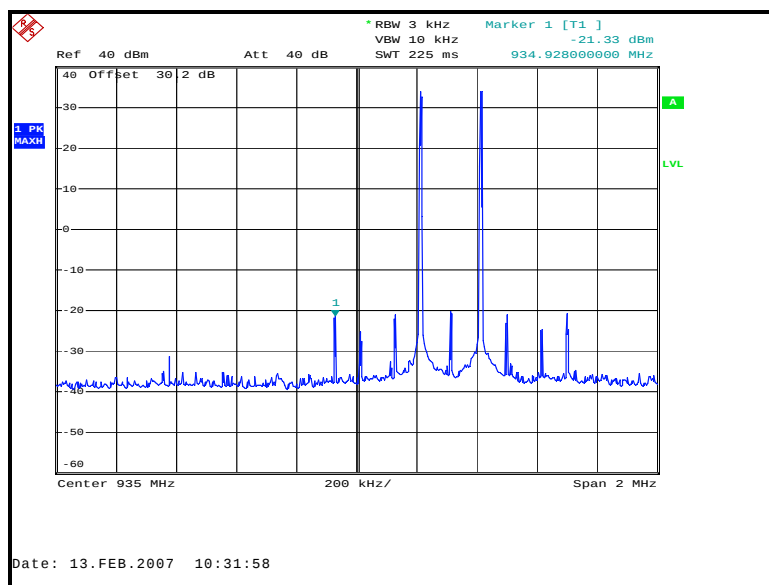


Figure 11: Spurious Emissions - Downlink FM Low Channel – Inter-modulation In Band

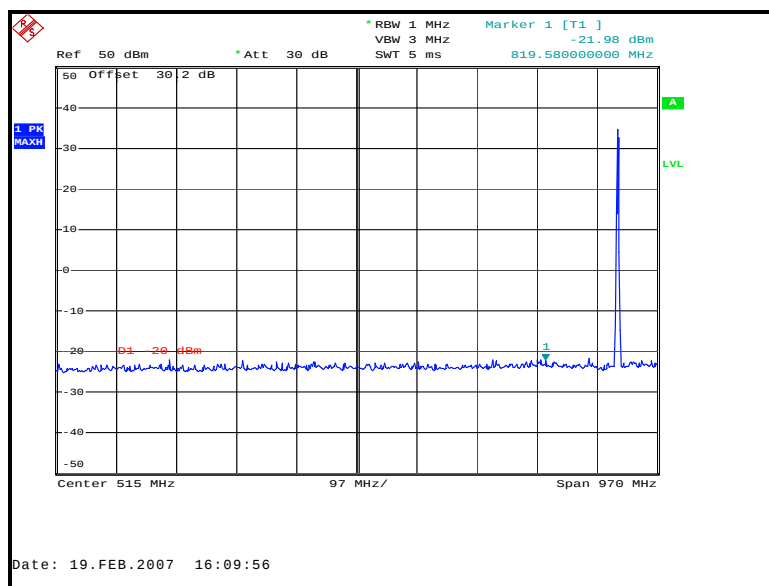


Figure 12: Spurious Emissions - Downlink FM Low Channel – Inter-modulation-30MHz to 1GHz

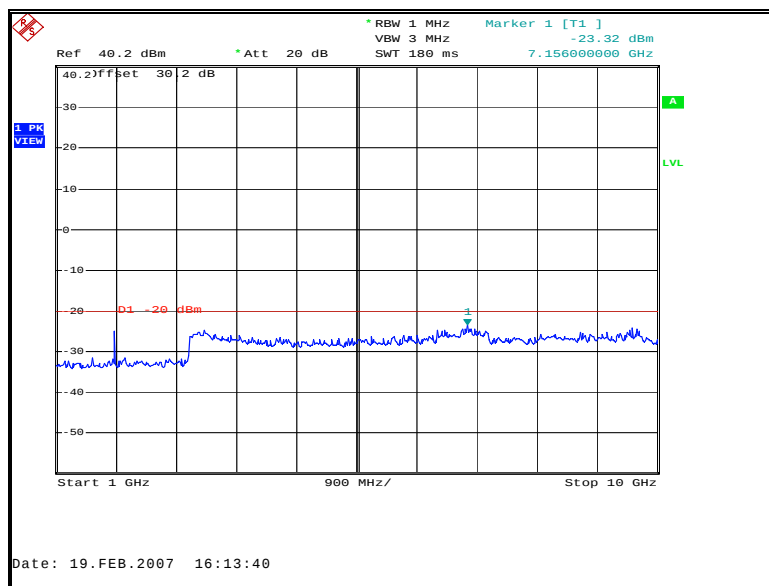


Figure 13: Spurious Emissions - Downlink FM Low Channel – Inter-modulation - 1 to 10 GHz

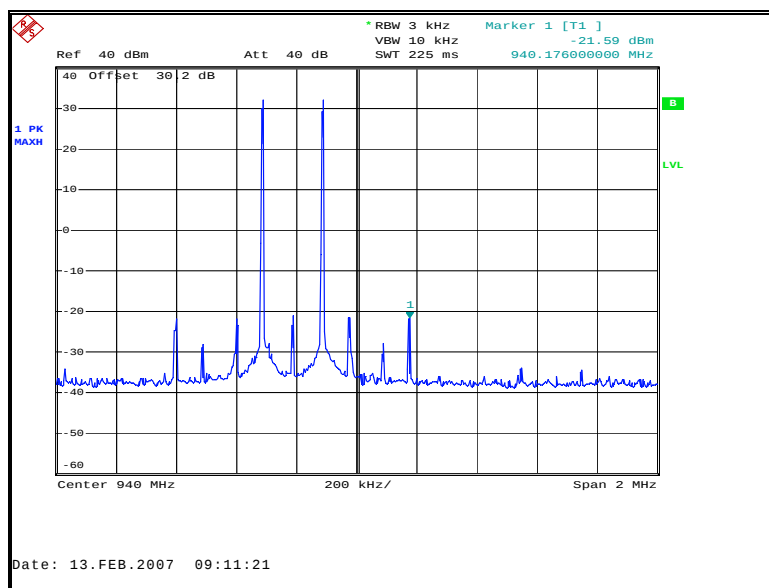


Figure 14: Spurious Emissions - Downlink FM High Channel – Inter-modulation In Band

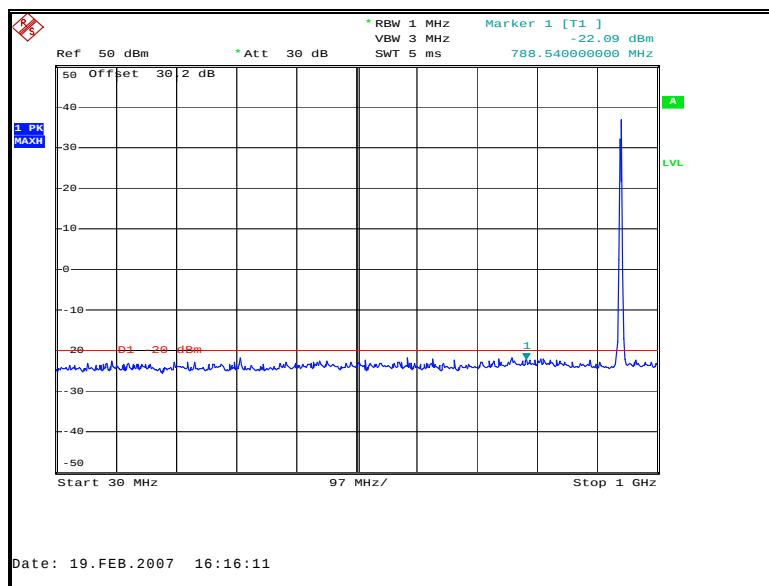


Figure 15: Spurious Emissions - Downlink FM High Channel – Inter-modulation-30MHz to 1GHz

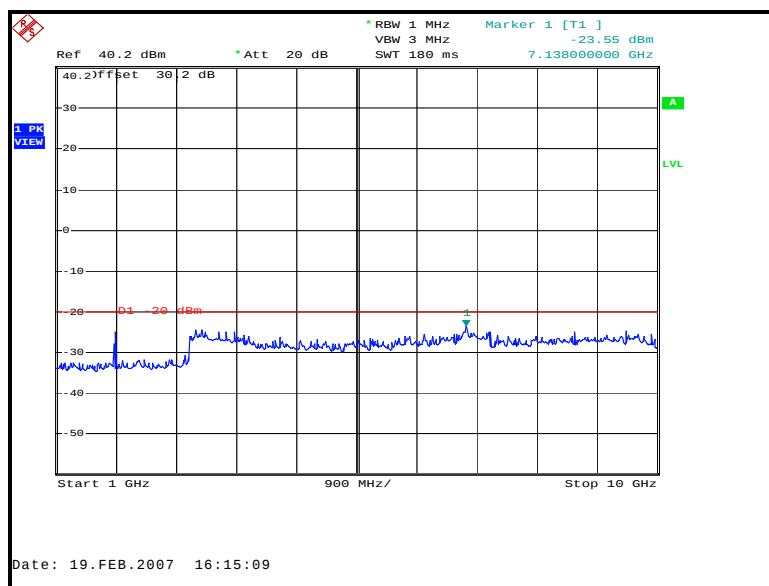


Figure 16: Spurious Emissions - Downlink FM High Channel – Inter-modulation - 1 to 10 GHz

3.0 Band-edge

3.1 iDEN Downlink

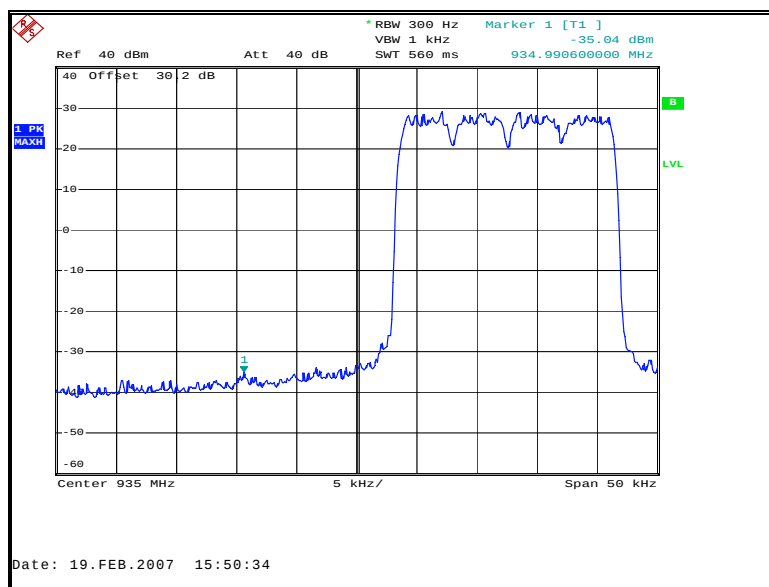


Figure 17: Band-Edge Downlink iDEN Low Channel

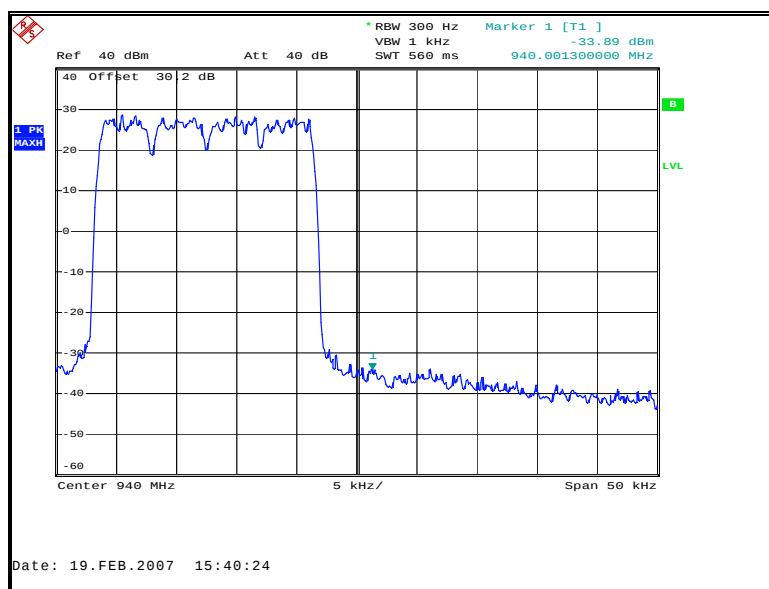


Figure 18: Band-Edge Downlink iDEN High Channel

3.2 FM Downlink

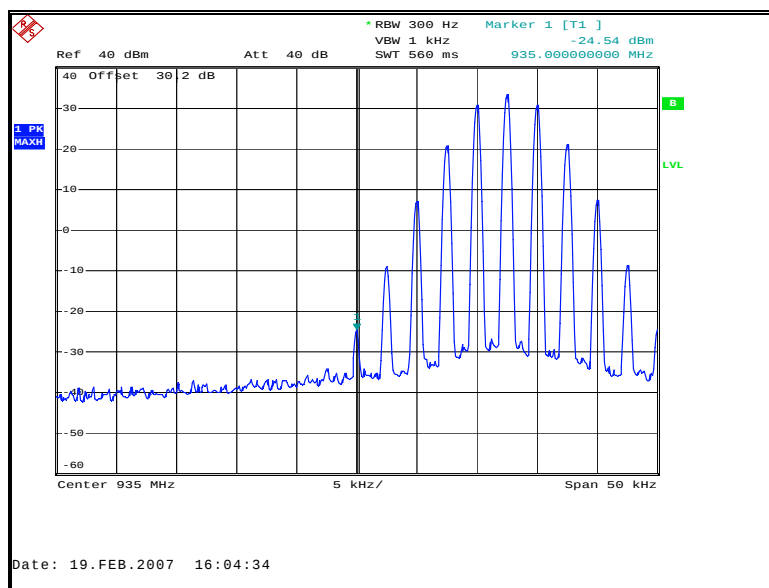


Figure 19: Band-Edge Downlink FM Low Channel

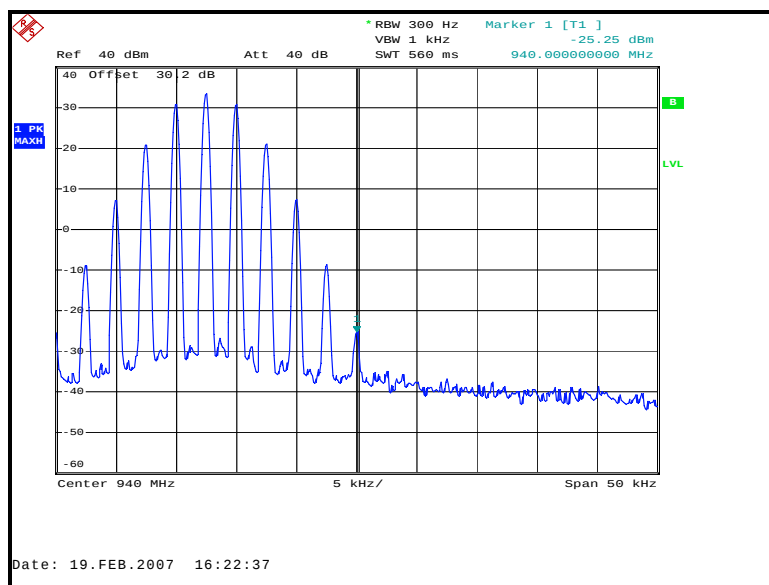


Figure 20: Band-Edge Downlink FM High Channel

END REPORT