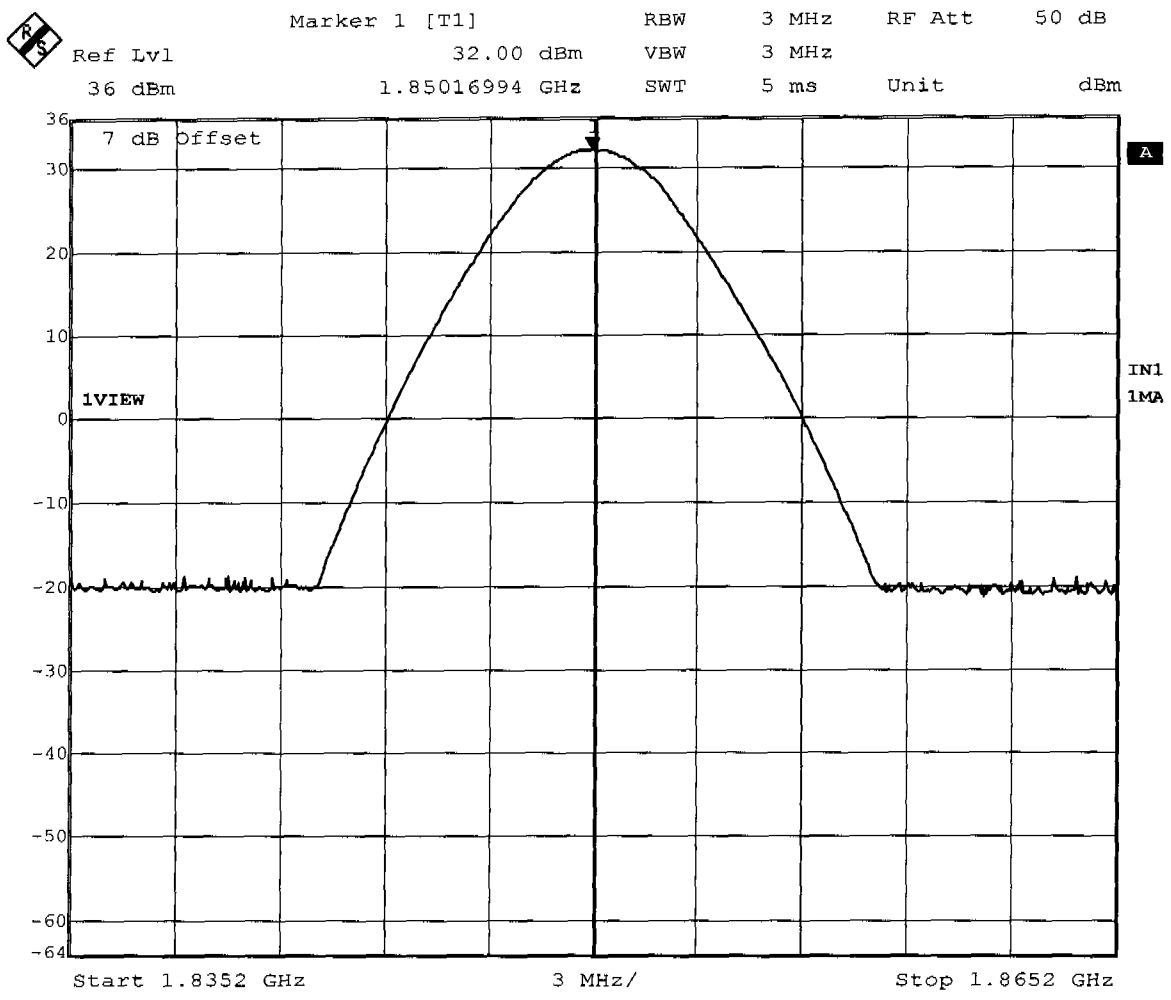
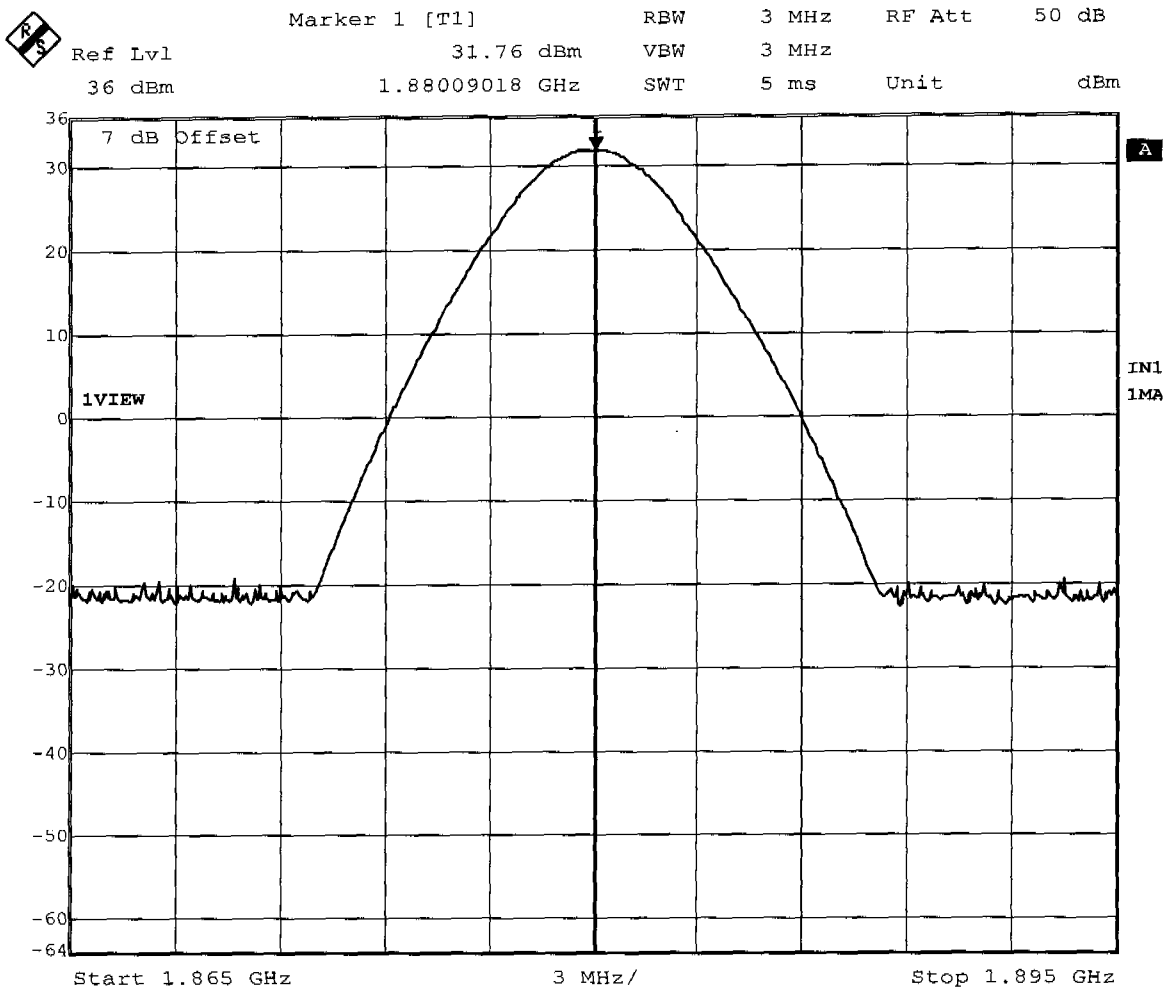
Appendix B

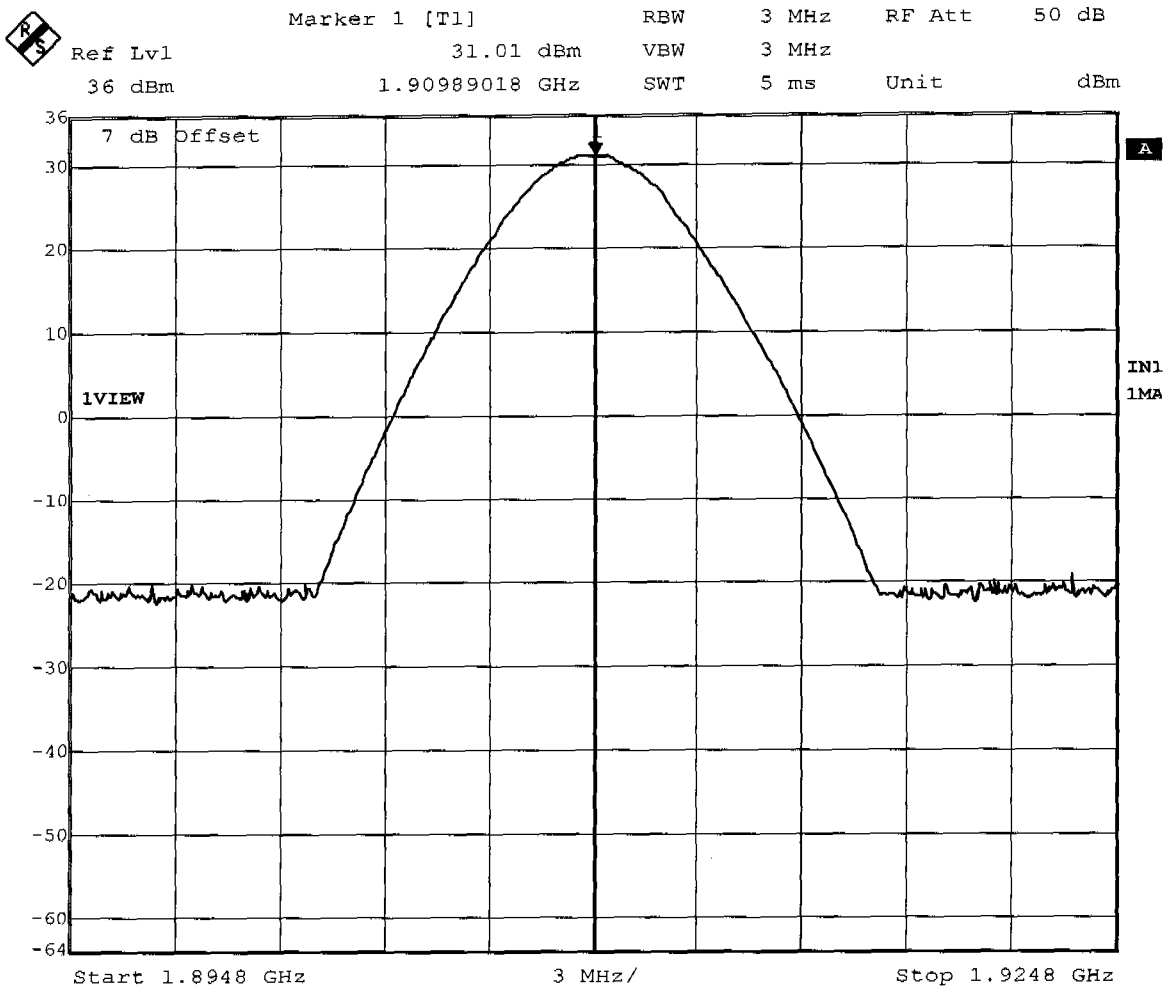
RF Power Output



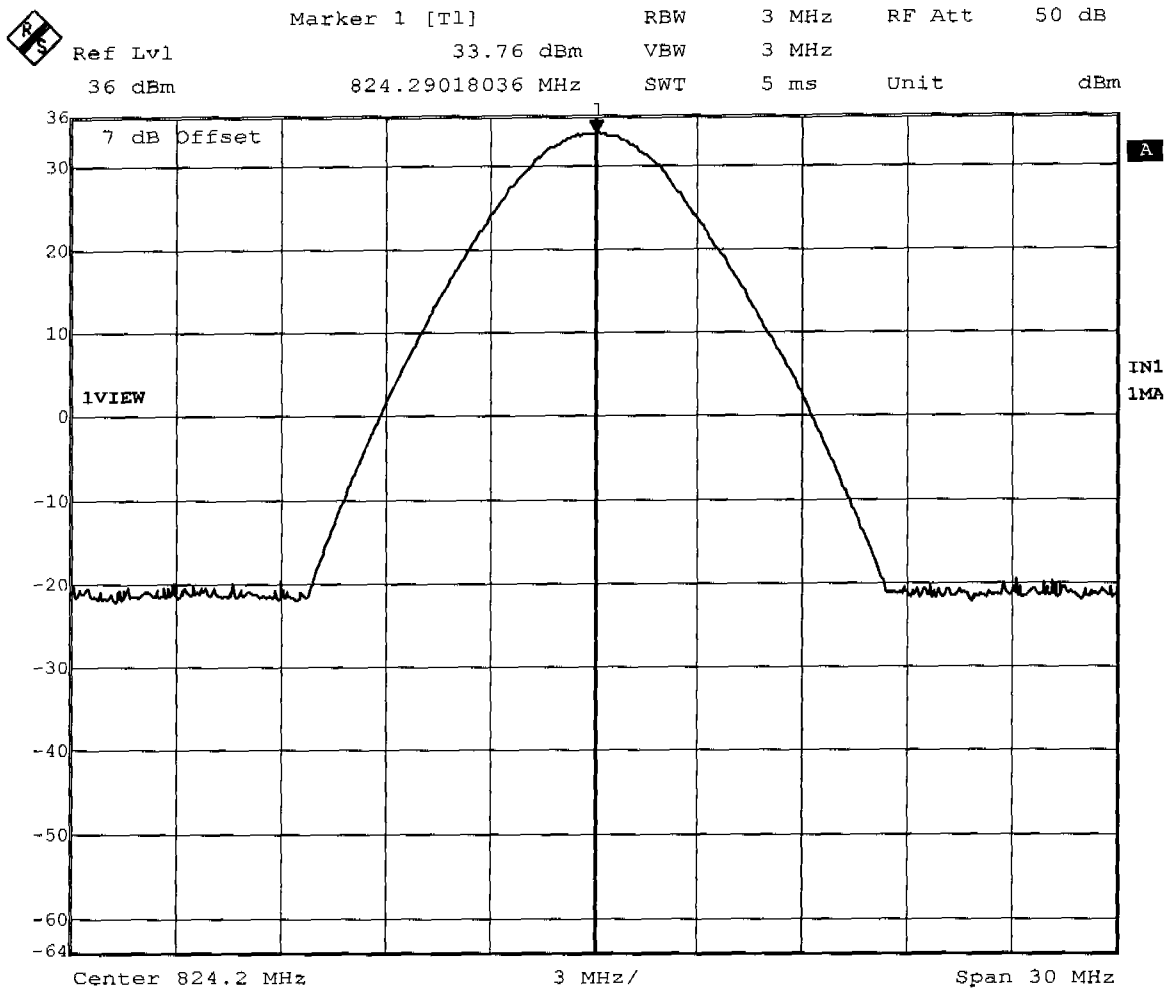
Title: Output Power Conducted Channel: 512
Comment A: MC3000NA
Date: 30.DEC.2003 12:38:43



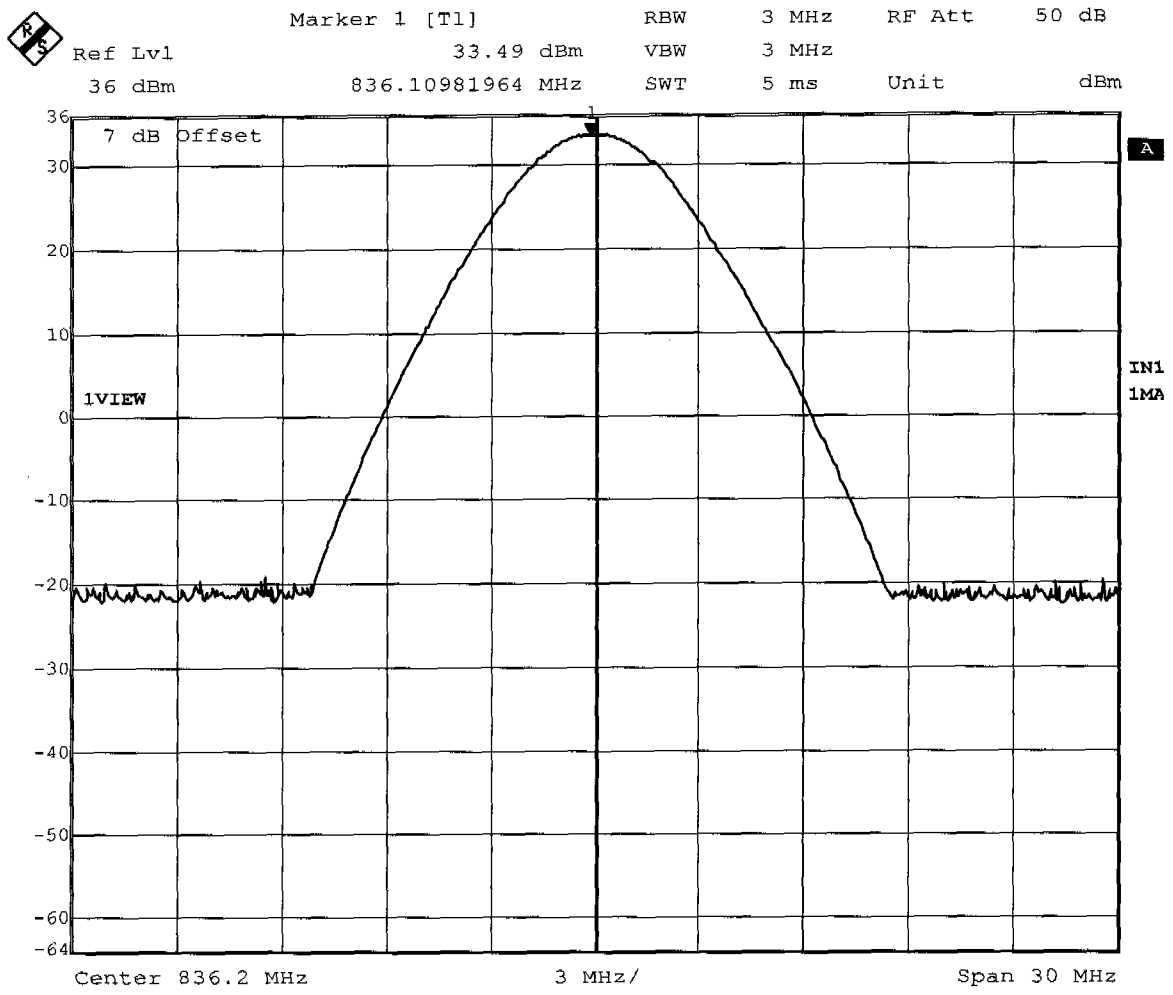
Title: Output Power Conducted Channel: 661
Comment A: MC3000NA
Date: 30.DEC.2003 12:39:41



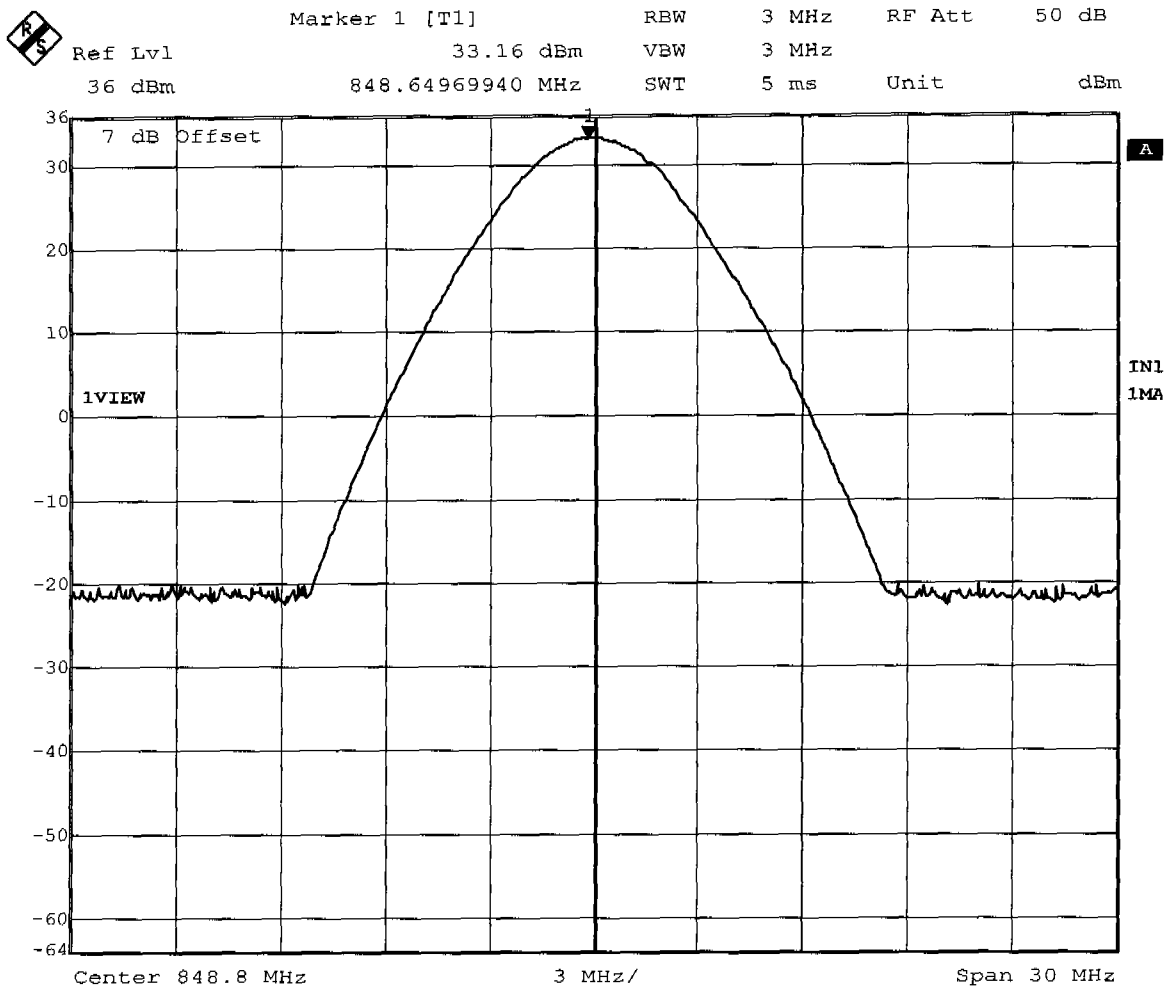
Title: Output Power Conducted Channel: 810
Comment A: MC3000NA
Date: 30.DEC.2003 12:40:37



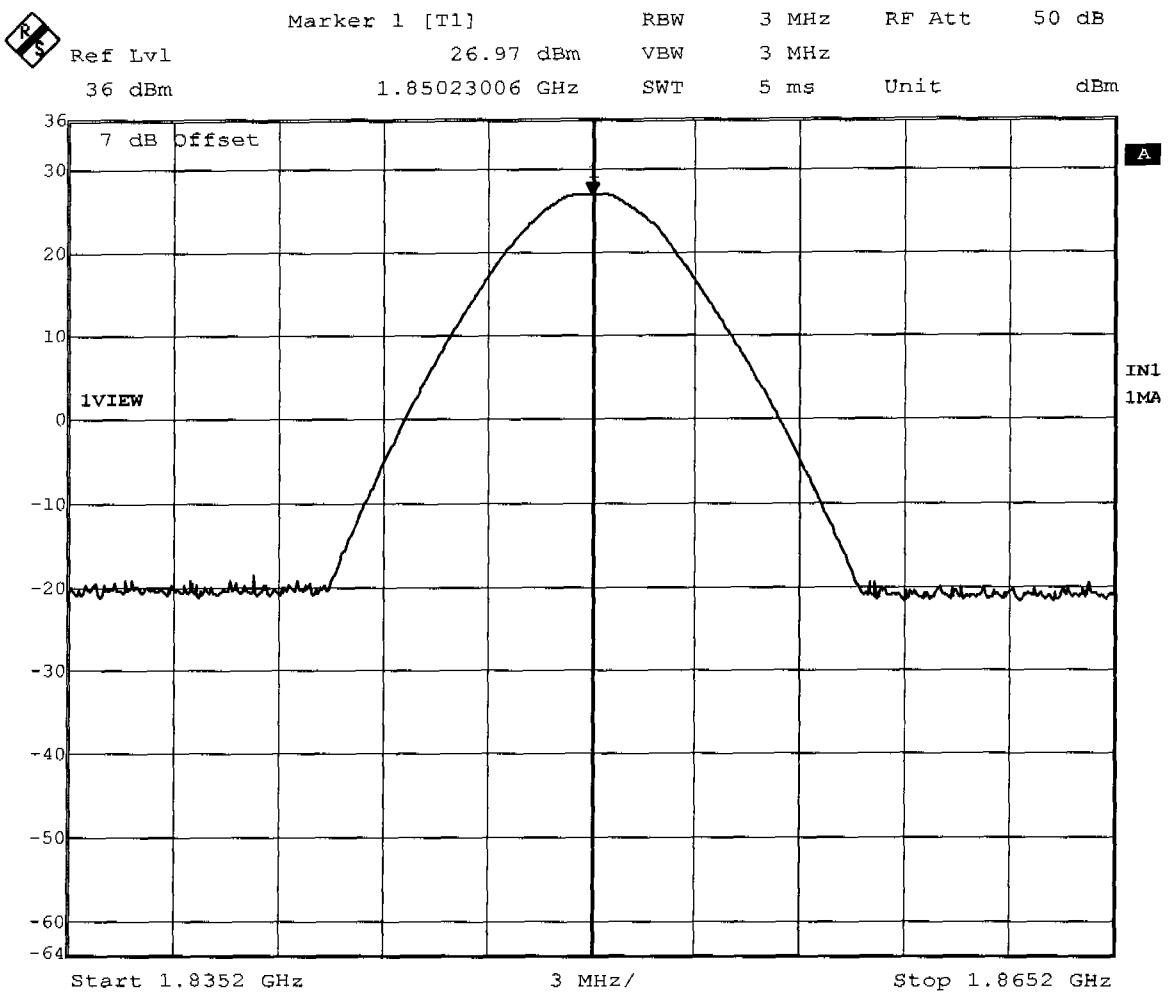
Title: Output Power Conducted Channel: 128
Comment A: MC3000NA
Date: 30.DEC.2003 08:58:43



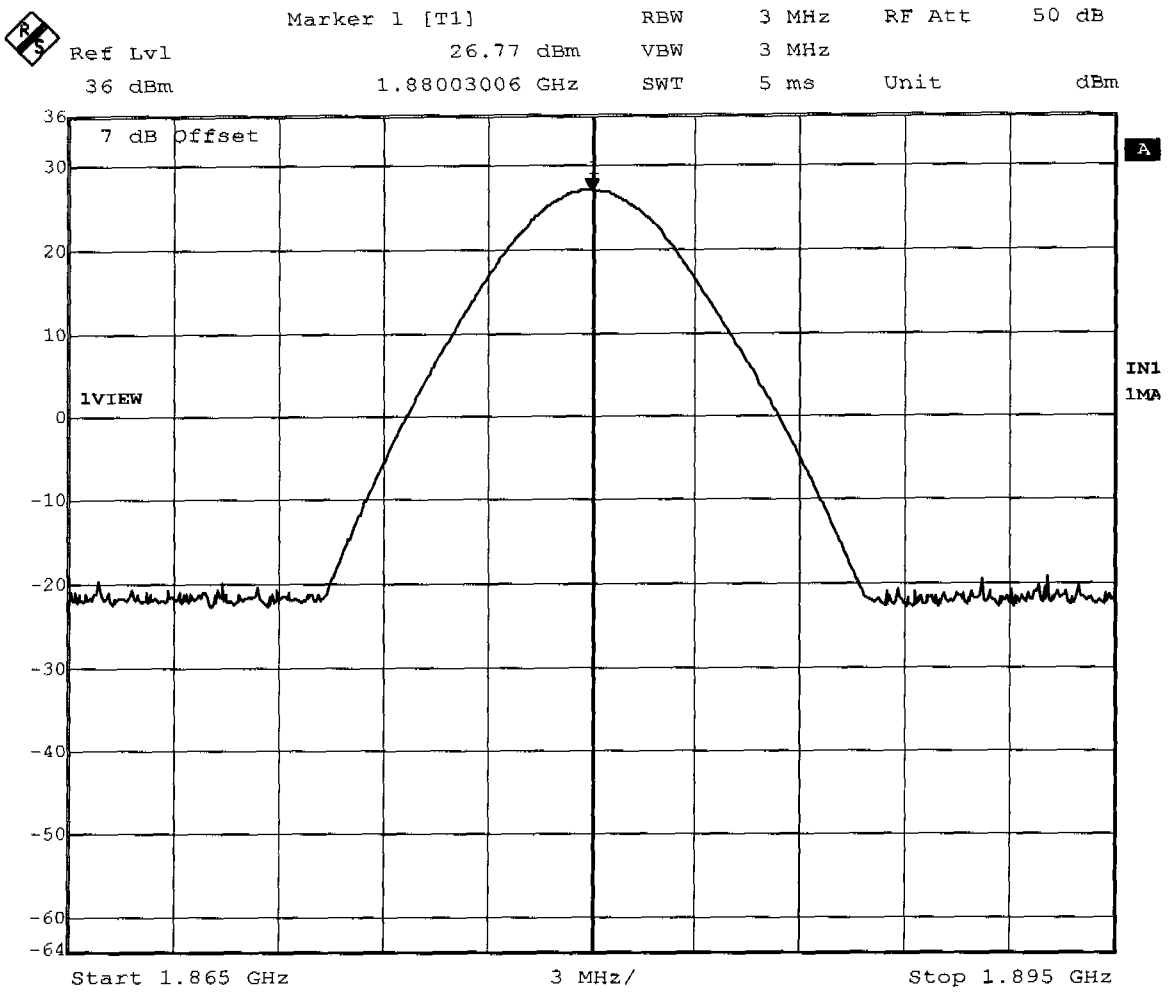
Title: Output Power Conducted Channel: 188
Comment A: MC3000NA
Date: 30.DEC.2003 08:57:19



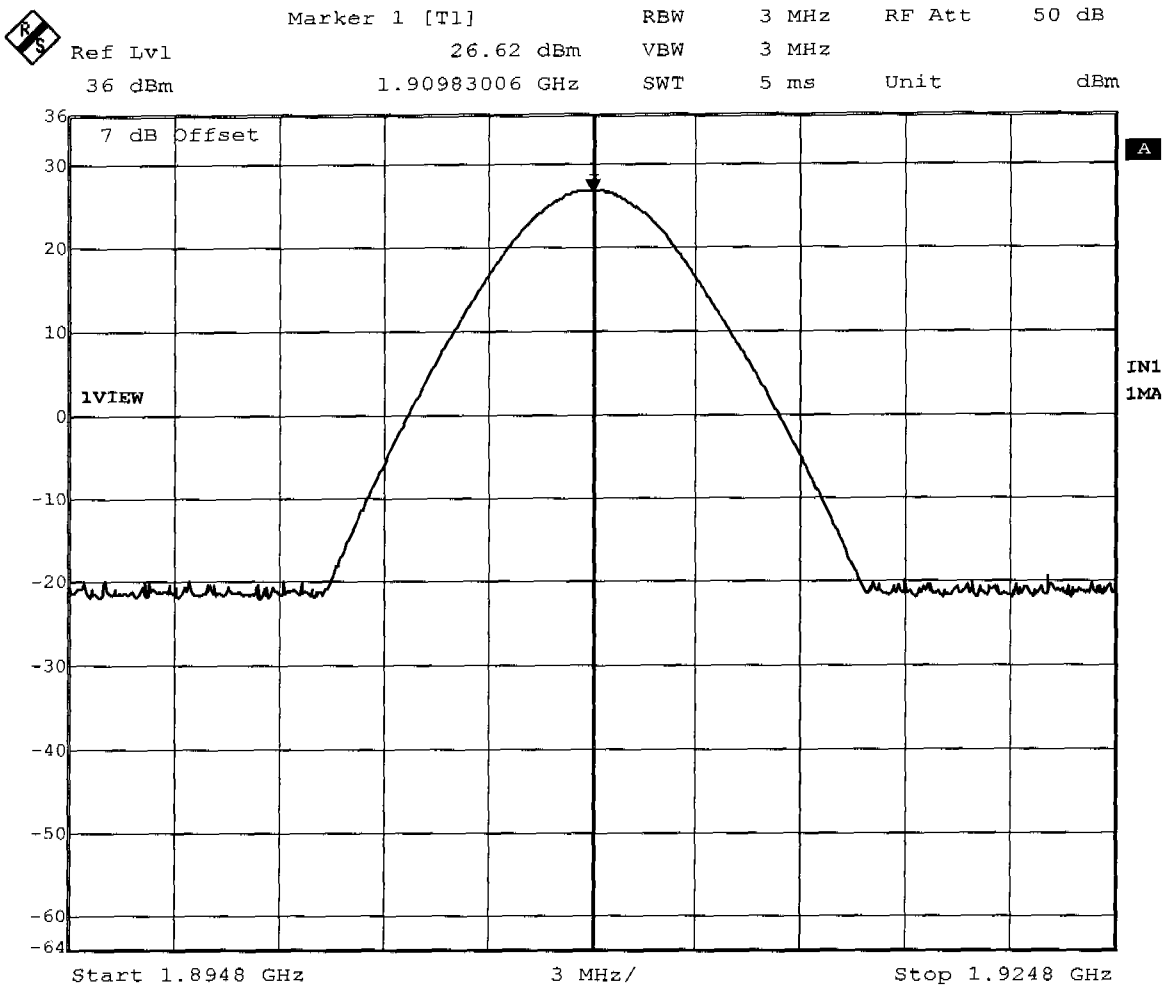
Title: Output Power Conducted Channel: 251
Comment A: MC3000NA
Date: 30.DEC.2003 08:56:17



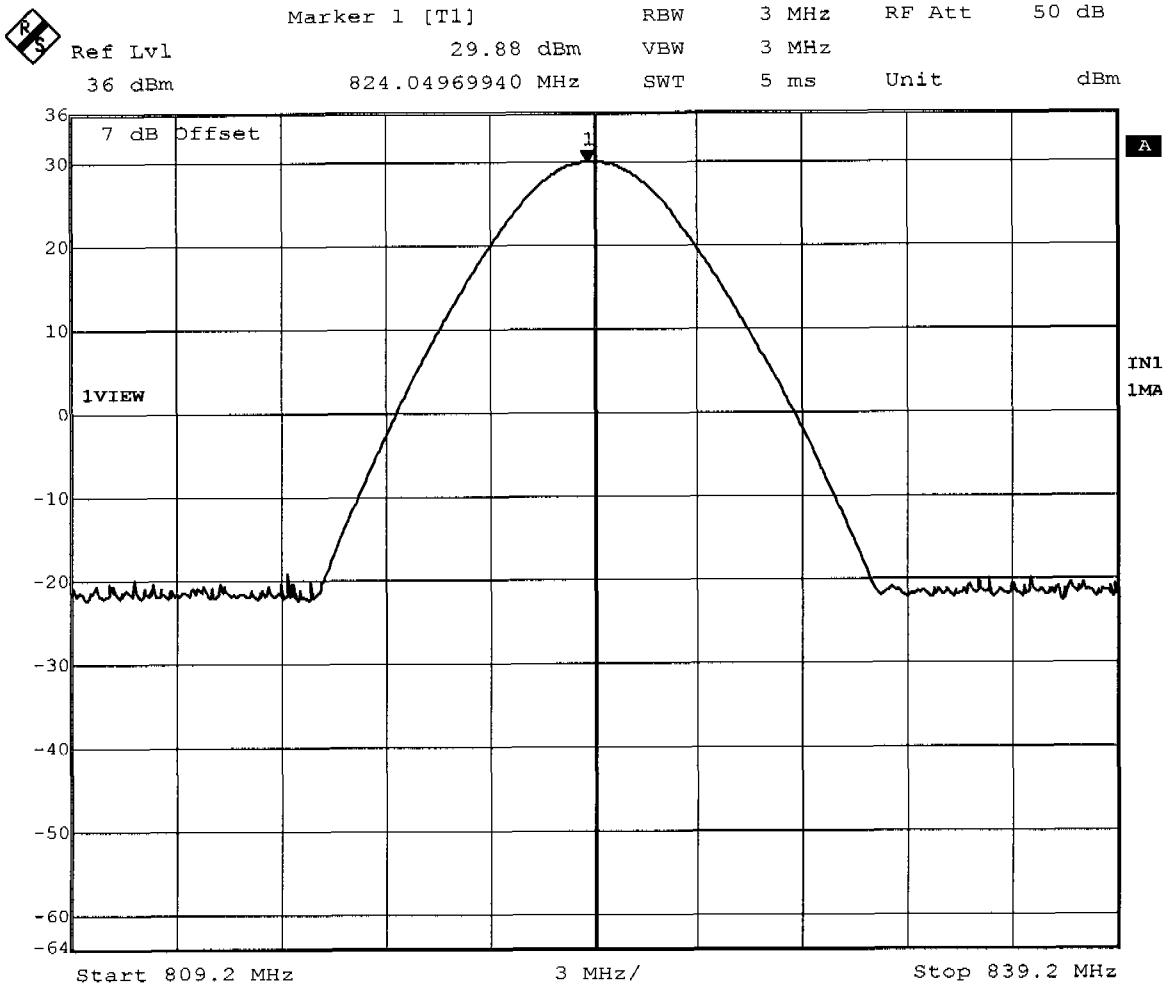
Title: Input Power Conducted Channel: 512
Comment A: siemens cingular
Date: 30.DEC.2003 11:30:42



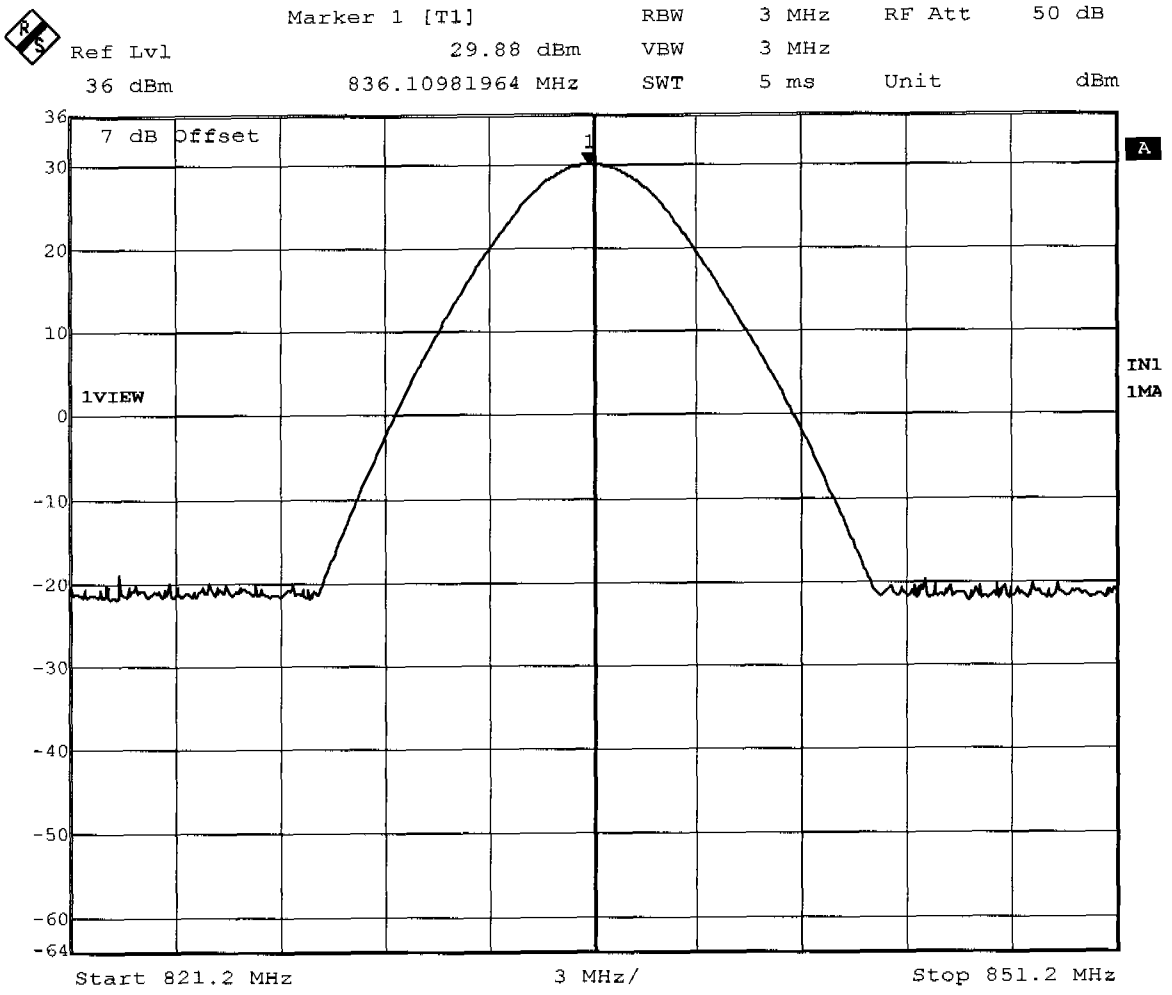
Title: Input Power Conducted Channel: 661
Comment A: siemens cingular
Date: 30.DEC.2003 11:29:21



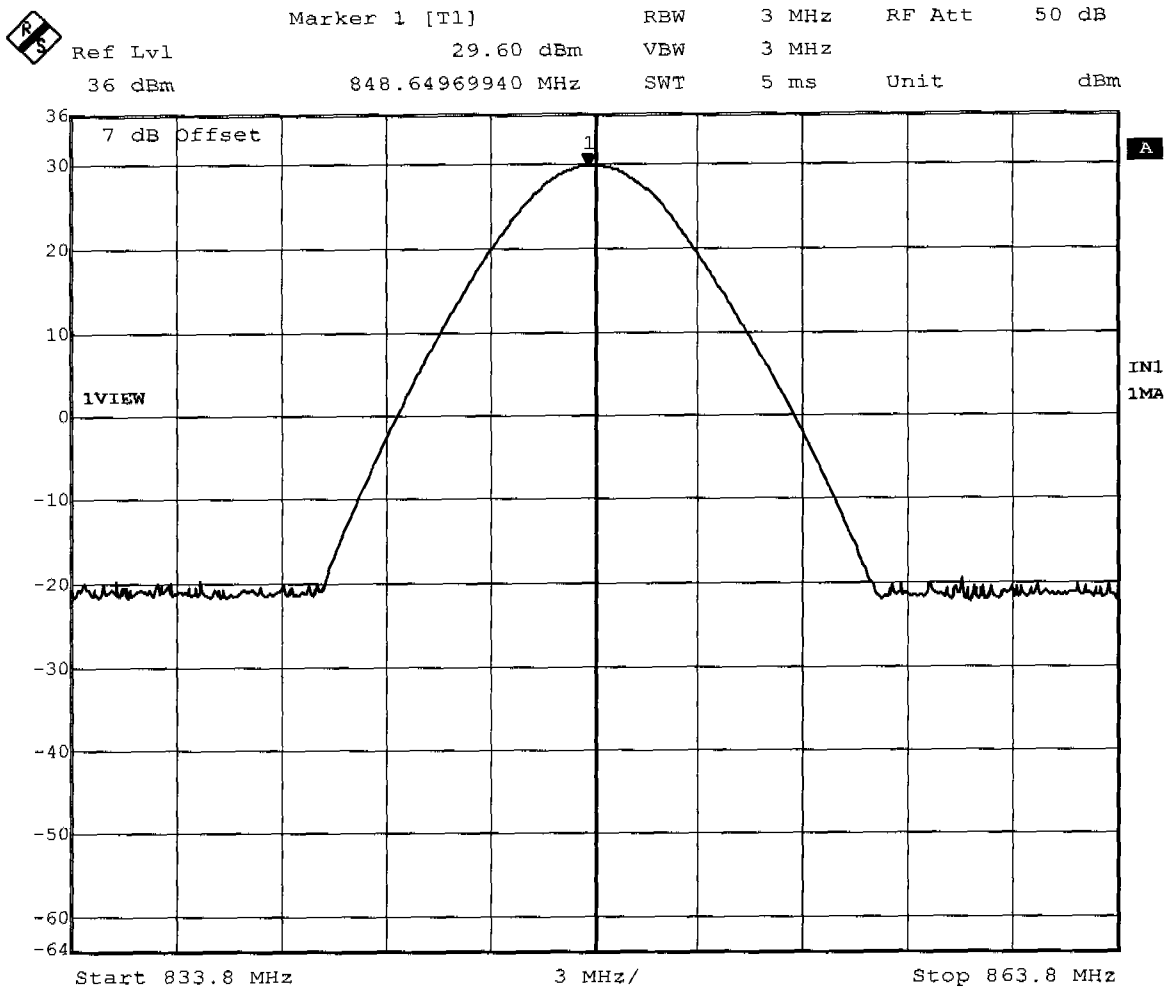
Title: Input Power Conducted Channel: 810
Comment A: siemens cingular
Date: 30.DEC.2003 11:26:39



Title: Input Power Conducted Channel: 128
Comment A: siemens cingular
Date: 30.DEC.2003 10:23:18



Title: Input Power Conducted Channel: 188
Comment A: siemens cingular
Date: 30.DEC.2003 10:21:58



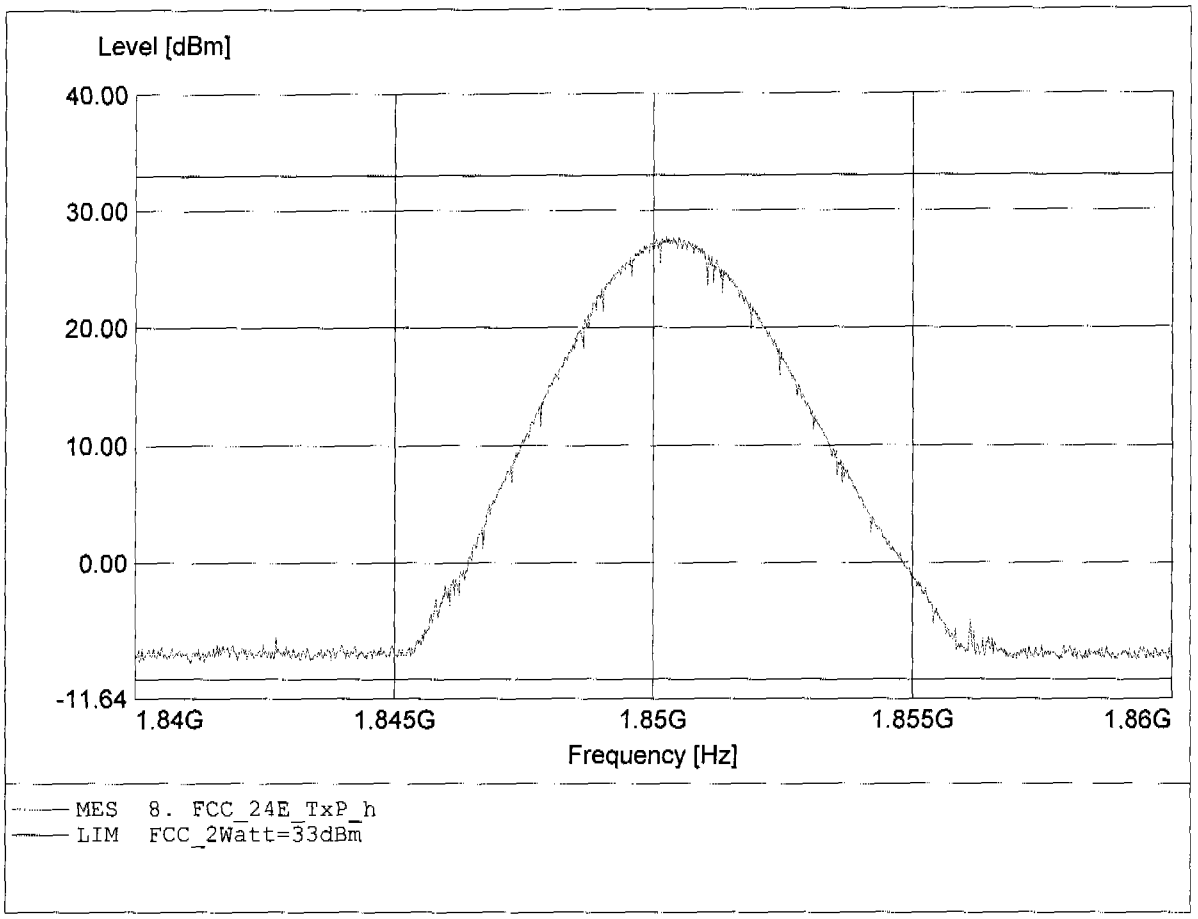
Title: Input Power Conducted Channel: 251
Comment A: siemens cingular
Date: 30.DEC.2003 10:20:20

Appendix C

ERP, EIRP

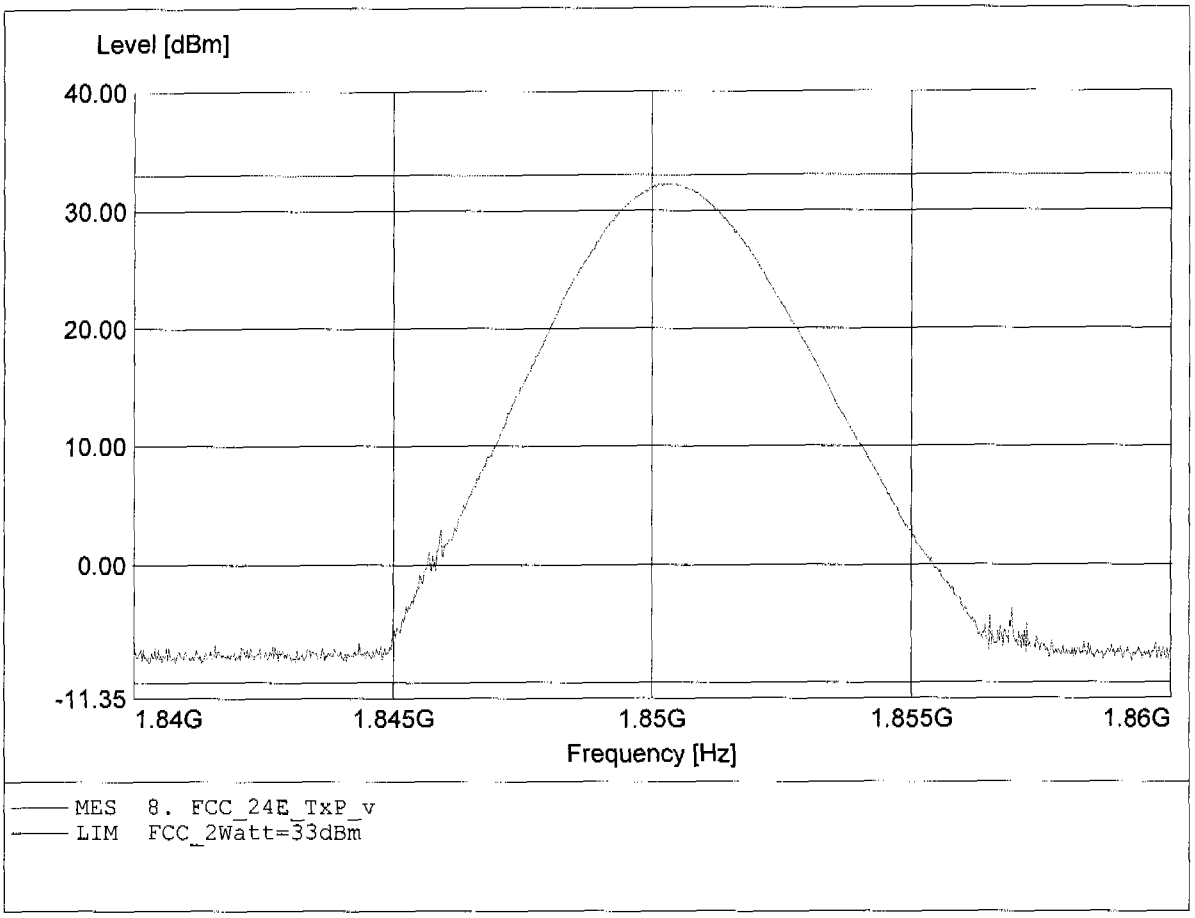
Equivalent Isotropically Radiated Power
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	512
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.232
Comment 1:	Dist.: 3m, Ant.: HL025,PCL 0
Comment 2:	Freq: 1.850GHz, Pmax: 27.65dBm, RBW: 3MHz



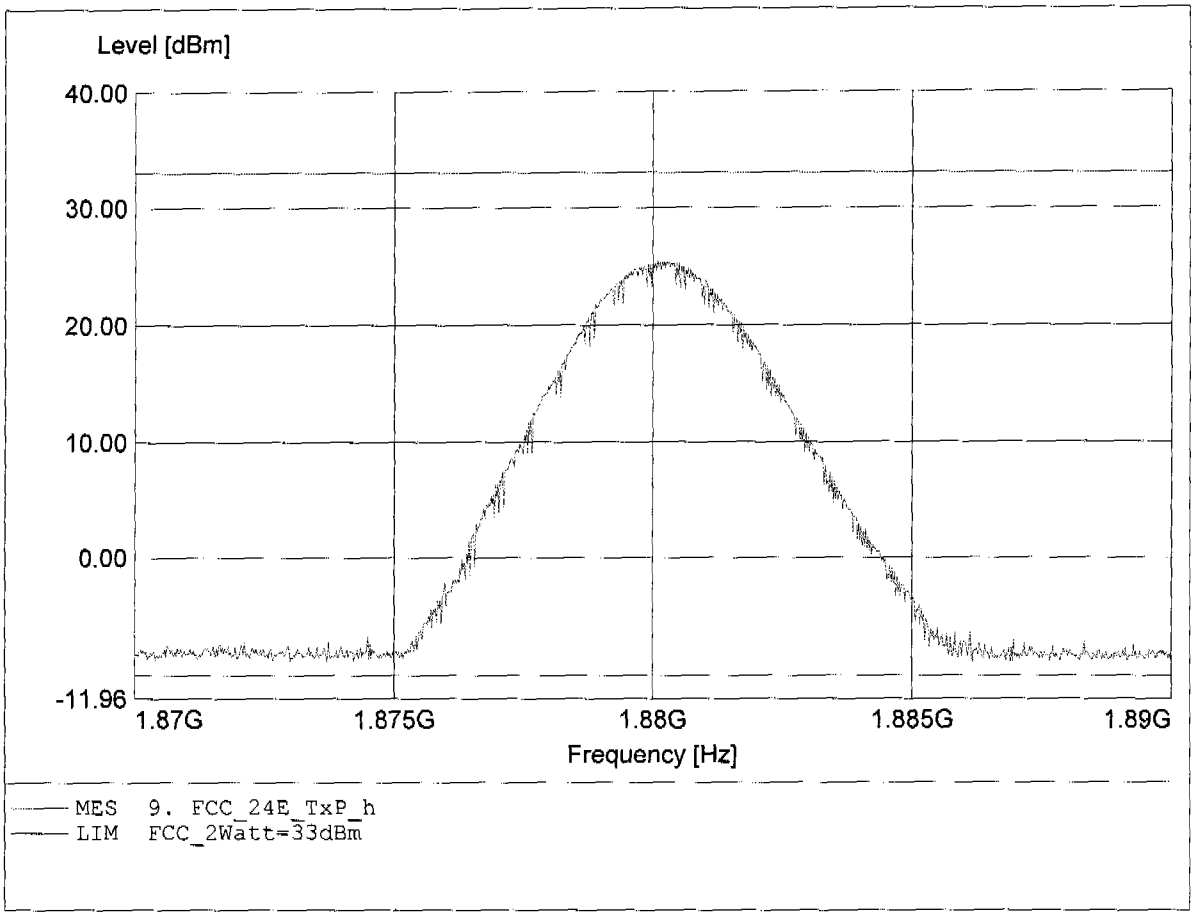
Equivalent Isotropically Radiated Power
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	512
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.232
Comment 1:	Dist.: 3m, Ant.: HL025,PCL 0
Comment 2:	Freq: 1.850GHz, Pmax: 32.28dBm, RBW: 3MHz



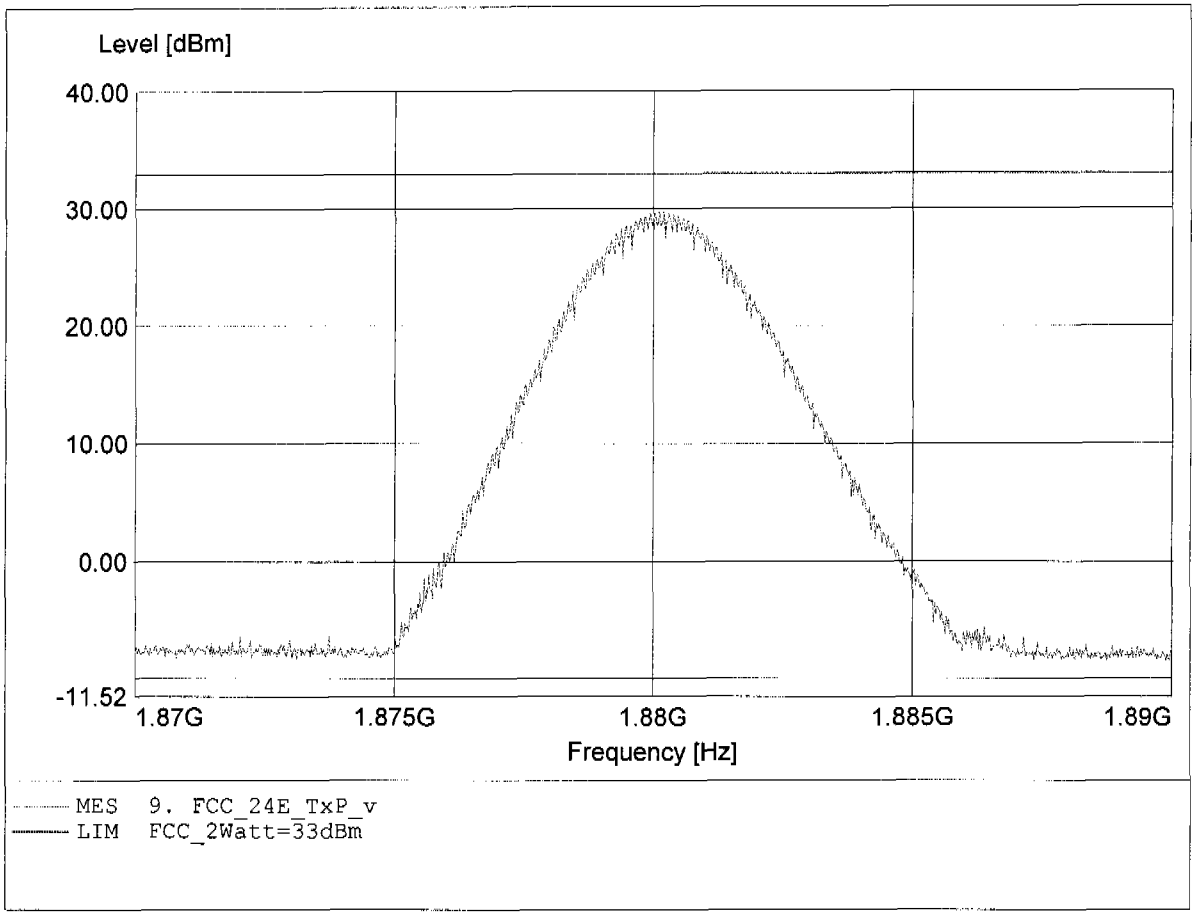
Equivalent Isotropically Radiated Power
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	661
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.232
Comment 1:	Dist.: 3m, Ant.: HL025,PCL 0
Comment 2:	Freq: 1.880GHz, Pmax: 25.44dBm, RBW: 3MHz



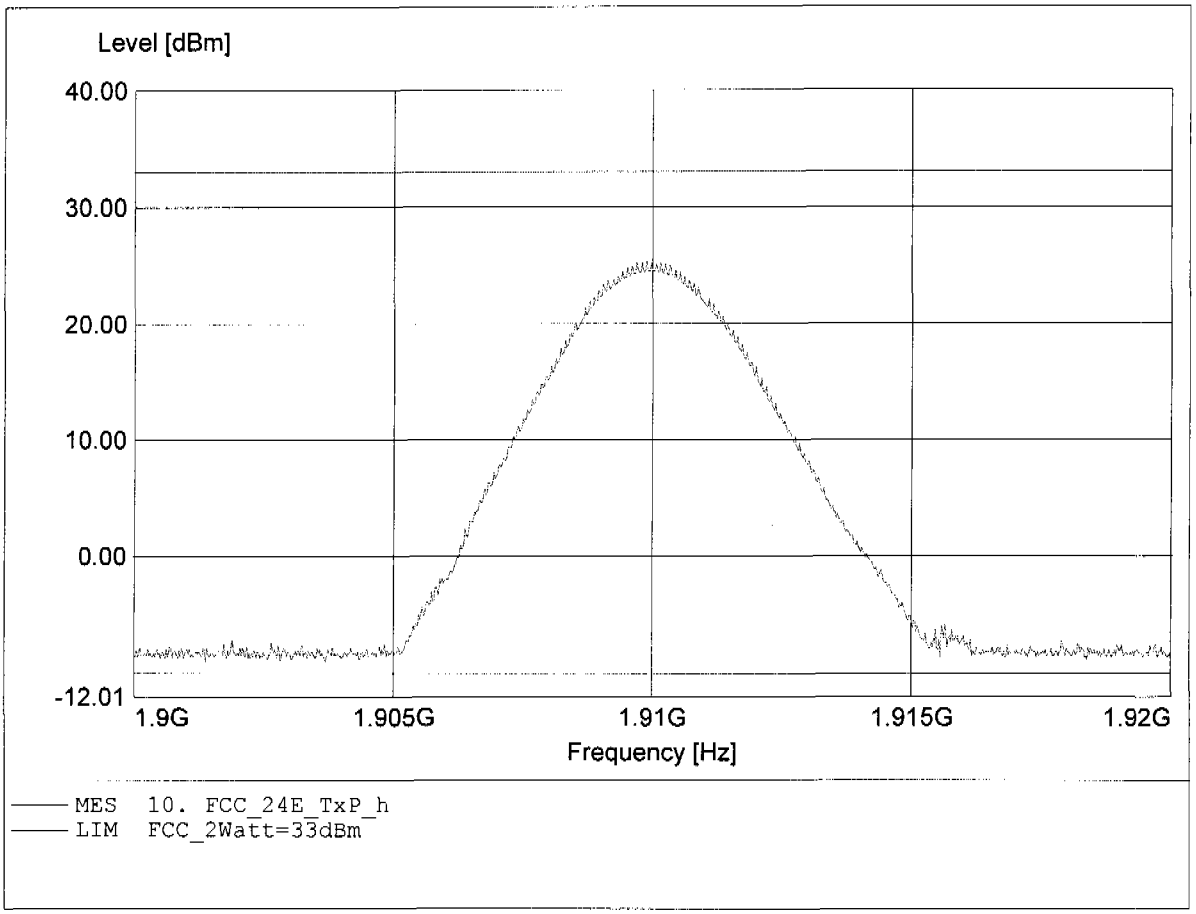
Equivalent Isotropically Radiated Power
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	661
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.232
Comment 1:	Dist.: 3m, Ant.: HL025,PCL 0
Comment 2:	Freq: 1.880GHz, Pmax: 29.73dBm, RBW: 3MHz



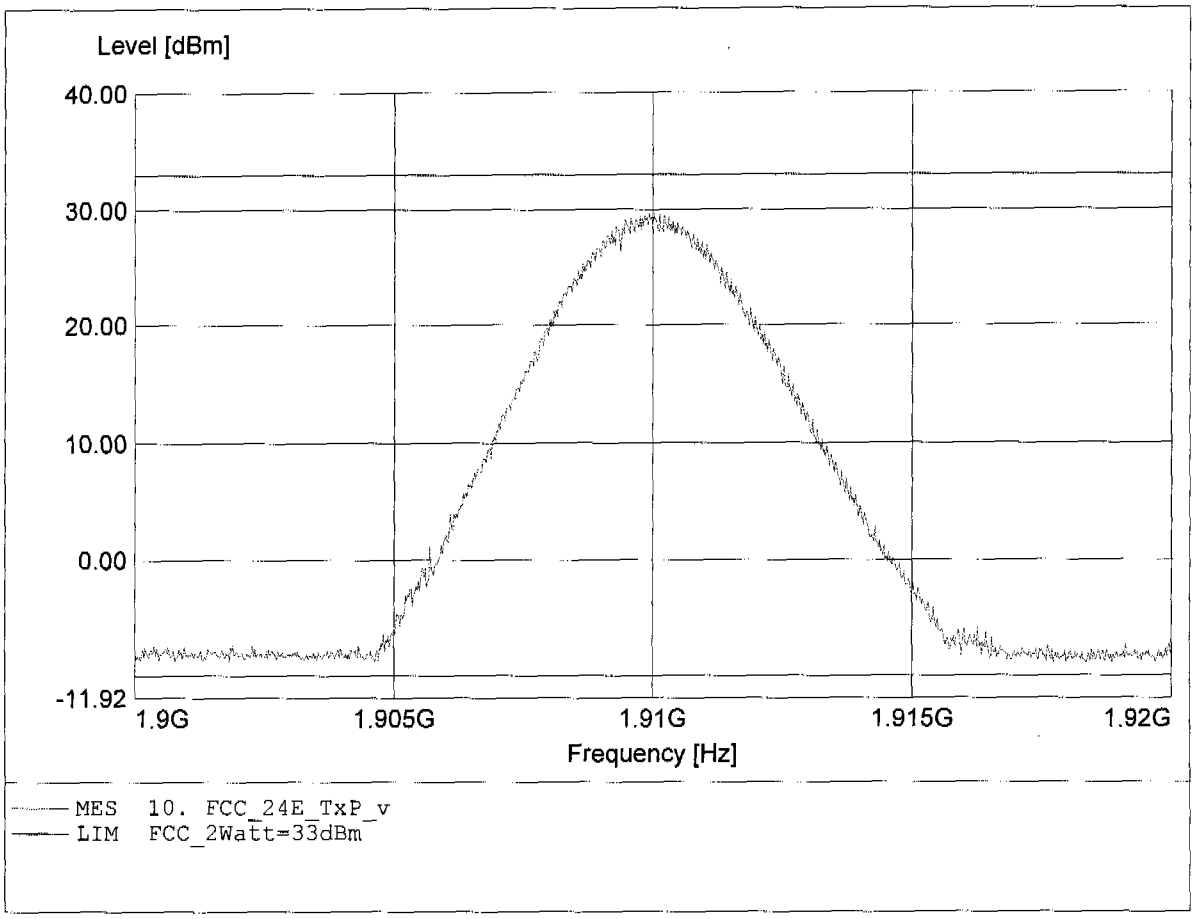
Equivalent Isotropically Radiated Power
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	810
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.232
Comment 1:	Dist.: 3m, Ant.: HL025,PCL 0
Comment 2:	Freq: 1.910GHz, Pmax: 25.40dBm, RBW: 3MHz



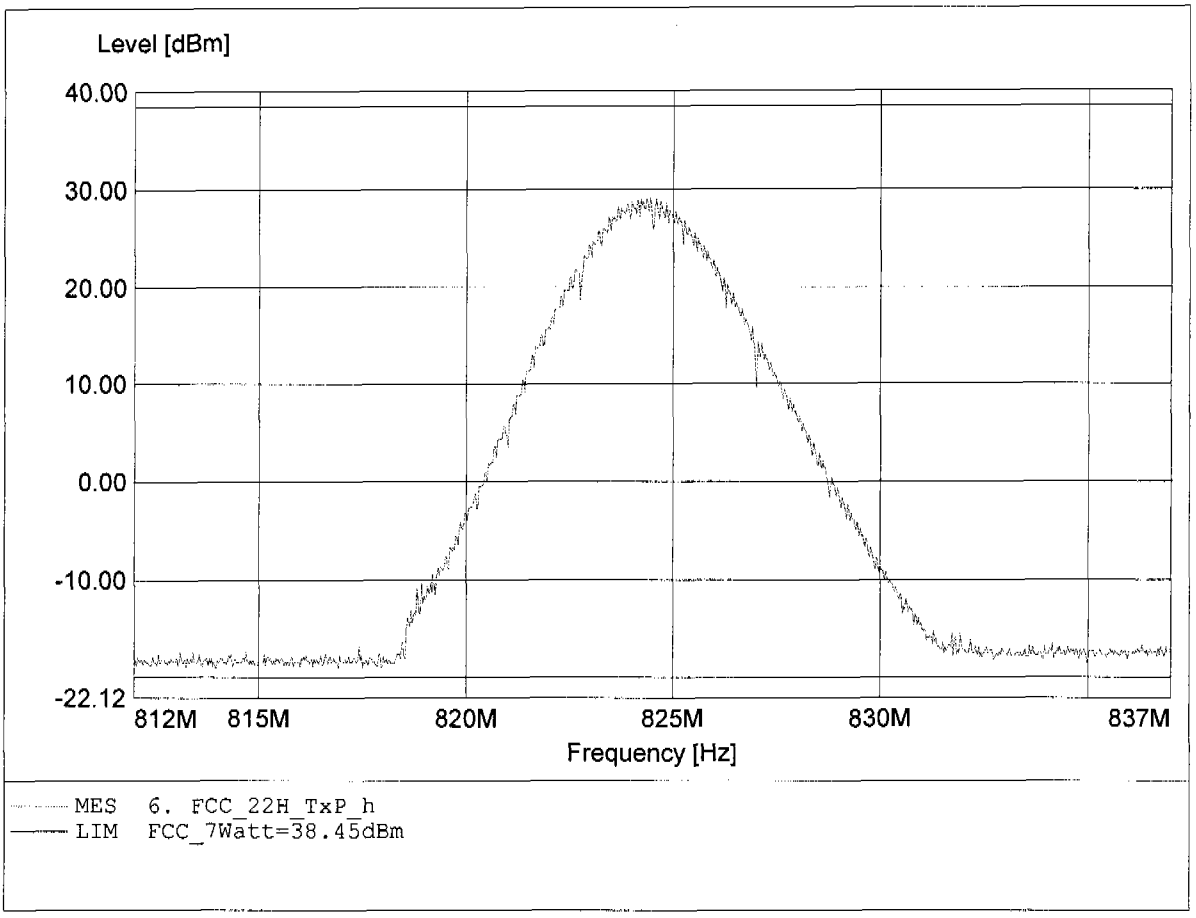
Equivalent Isotropically Radiated Power
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	810
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.232
Comment 1:	Dist.: 3m, Ant.: HL025,PCL 0
Comment 2:	Freq: 1.910GHz, Pmax: 29.64dBm, RBW: 3MHz



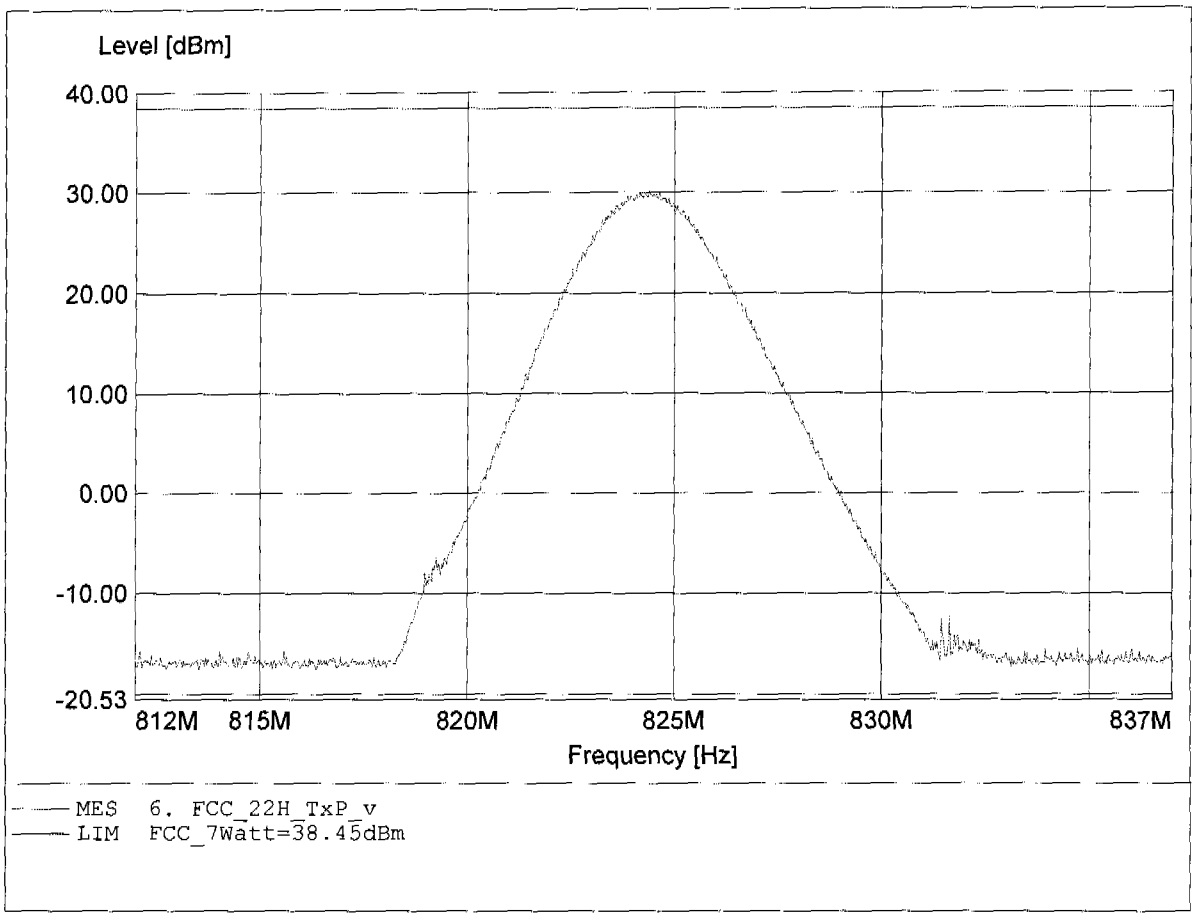
Effective Radiated Power
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	128
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.913
Comment 1:	Dist.: 3m, Ant.: HL223
Comment 2:	Freq: 824.444MHz, Pmax: 29.11dBm, RBW: 3MHz



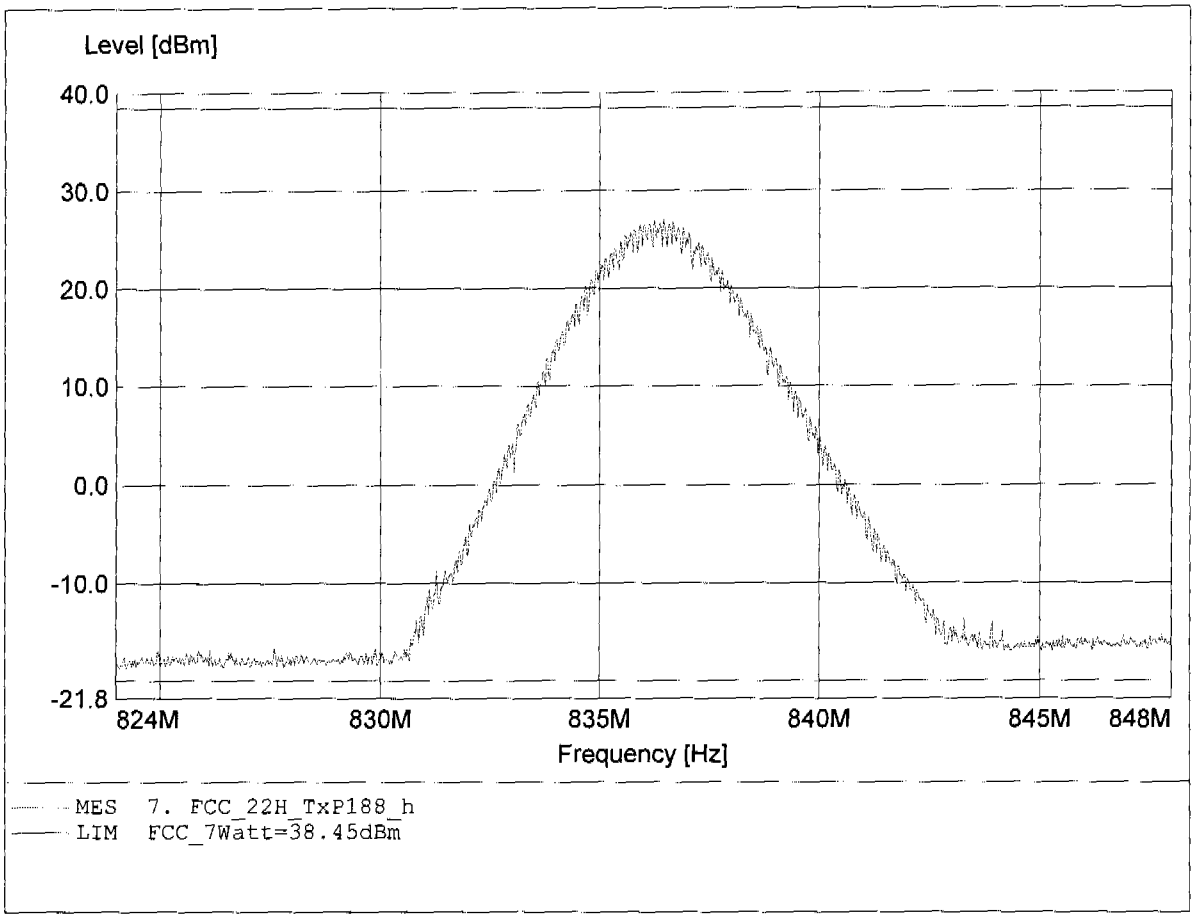
Effective Radiated Power
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	128
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.913
Comment 1:	Dist.: 3m, Ant.: HL223
Comment 2:	Freq: 824.389MHz, Pmax: 30.21dBm, RBW: 3MHz



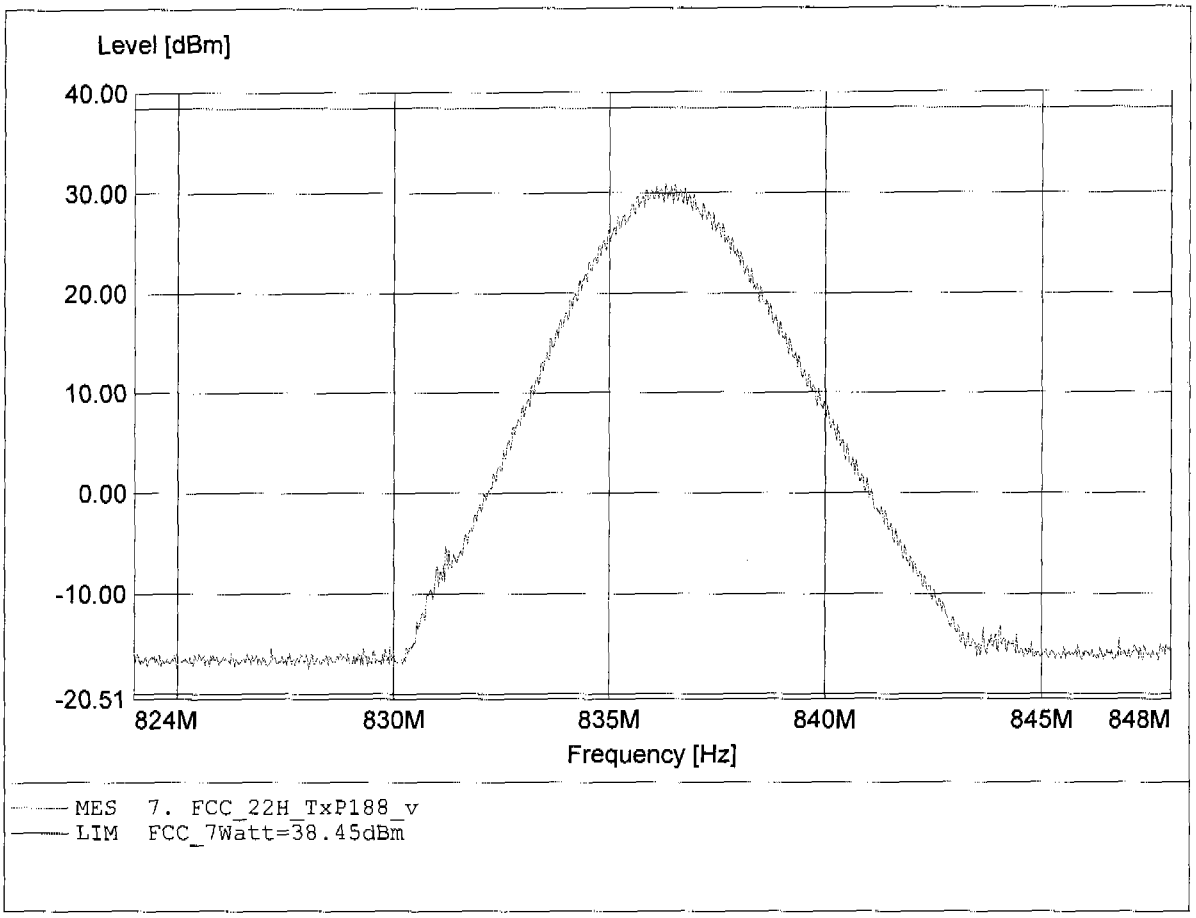
Effective Radiated Power
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	188
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.913
Comment 1:	Dist.: 3m, Ant.: HL223
Comment 2:	Freq: 836.453MHz, Pmax: 27.06dBm, RBW: 3MHz



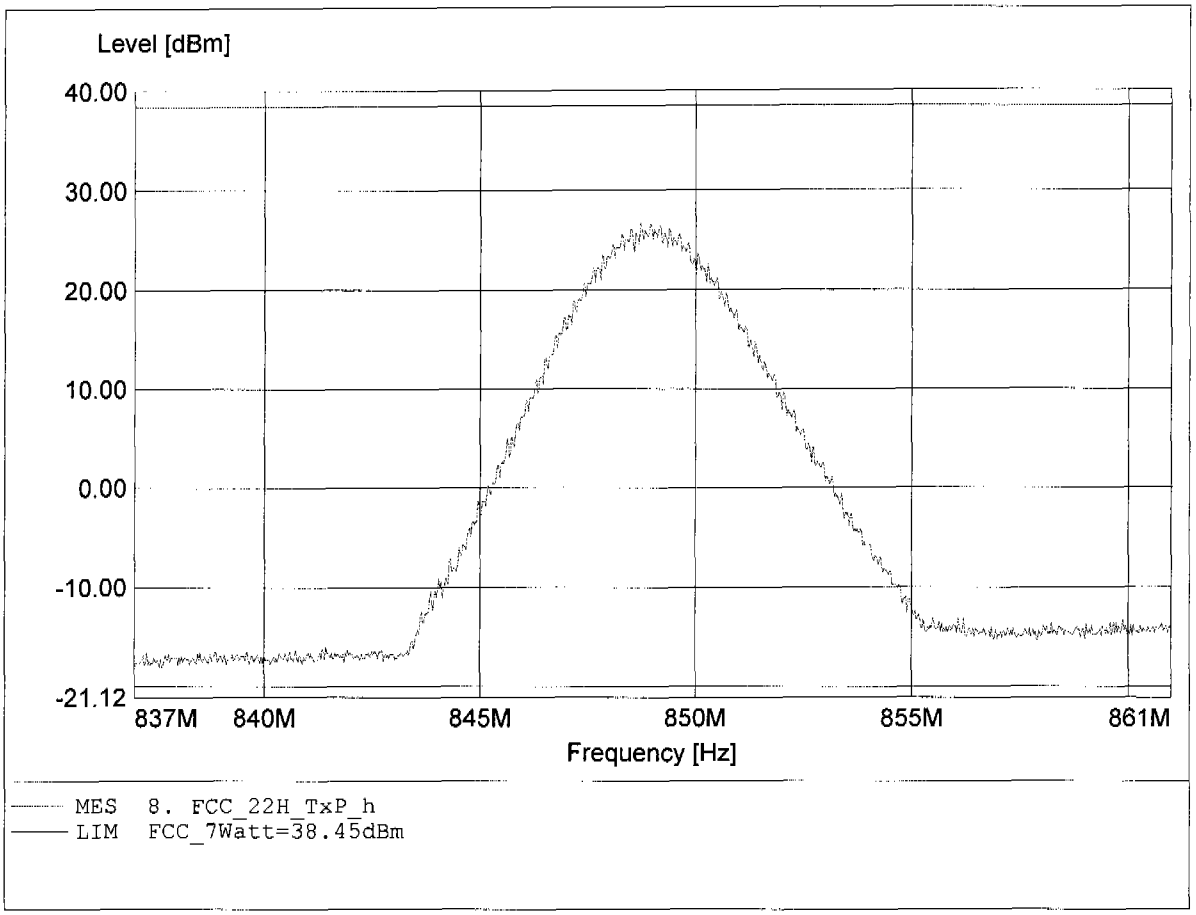
Effective Radiated Power
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	188
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.913
Comment 1:	Dist.: 3m, Ant.: HL223
Comment 2:	Freq: 836.293MHz, Pmax: 30.99dBm, RBW: 3MHz



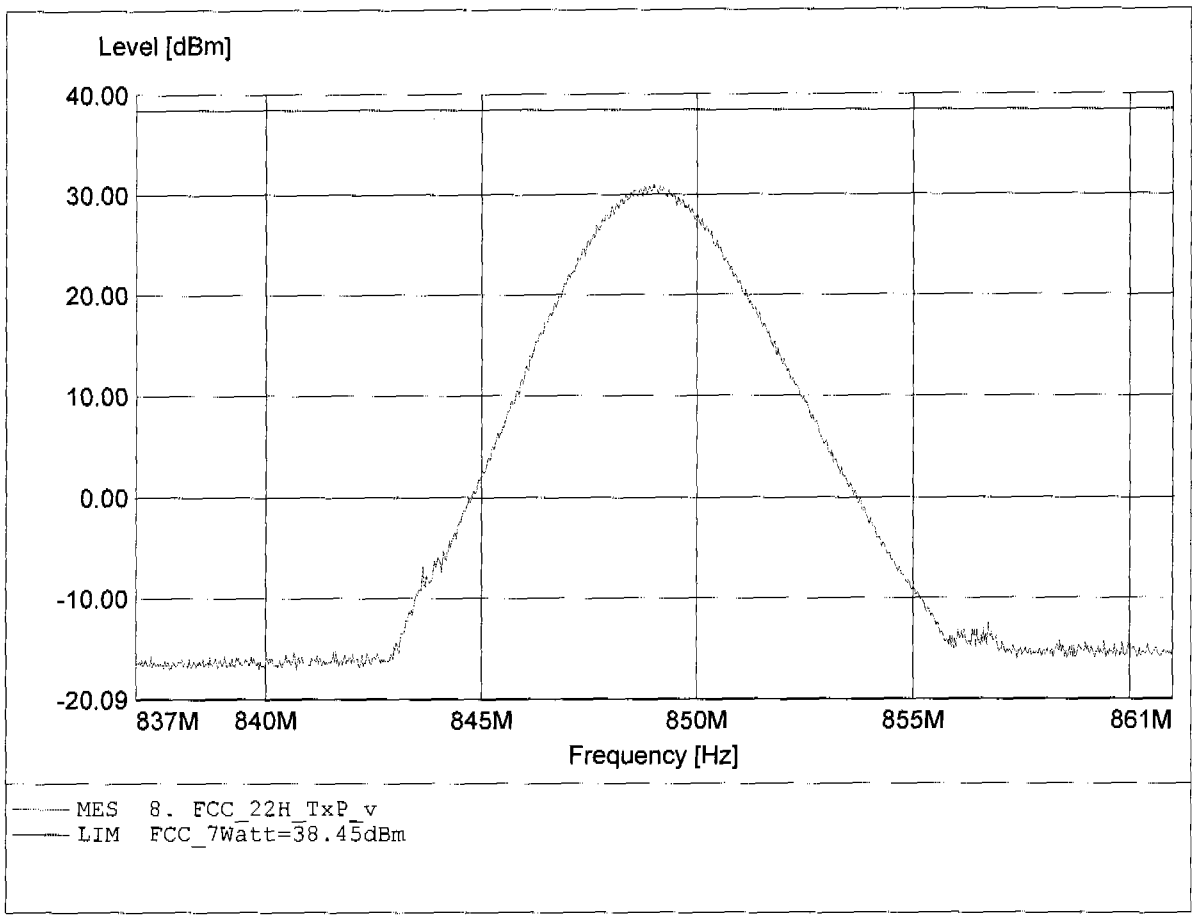
Effective Radiated Power
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	251
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.913
Comment 1:	Dist.: 3m, Ant.: HL223
Comment 2:	Freq: 848.707MHz, Pmax: 26.72dBm, RBW: 3MHz



Effective Radiated Power
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	251
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.913
Comment 1:	Dist.: 3m, Ant.: HL223
Comment 2:	Freq: 849.000MHz, Pmax: 30.96dBm, RBW: 3MHz



Appendix D

Modulation Requirements

Appendix E

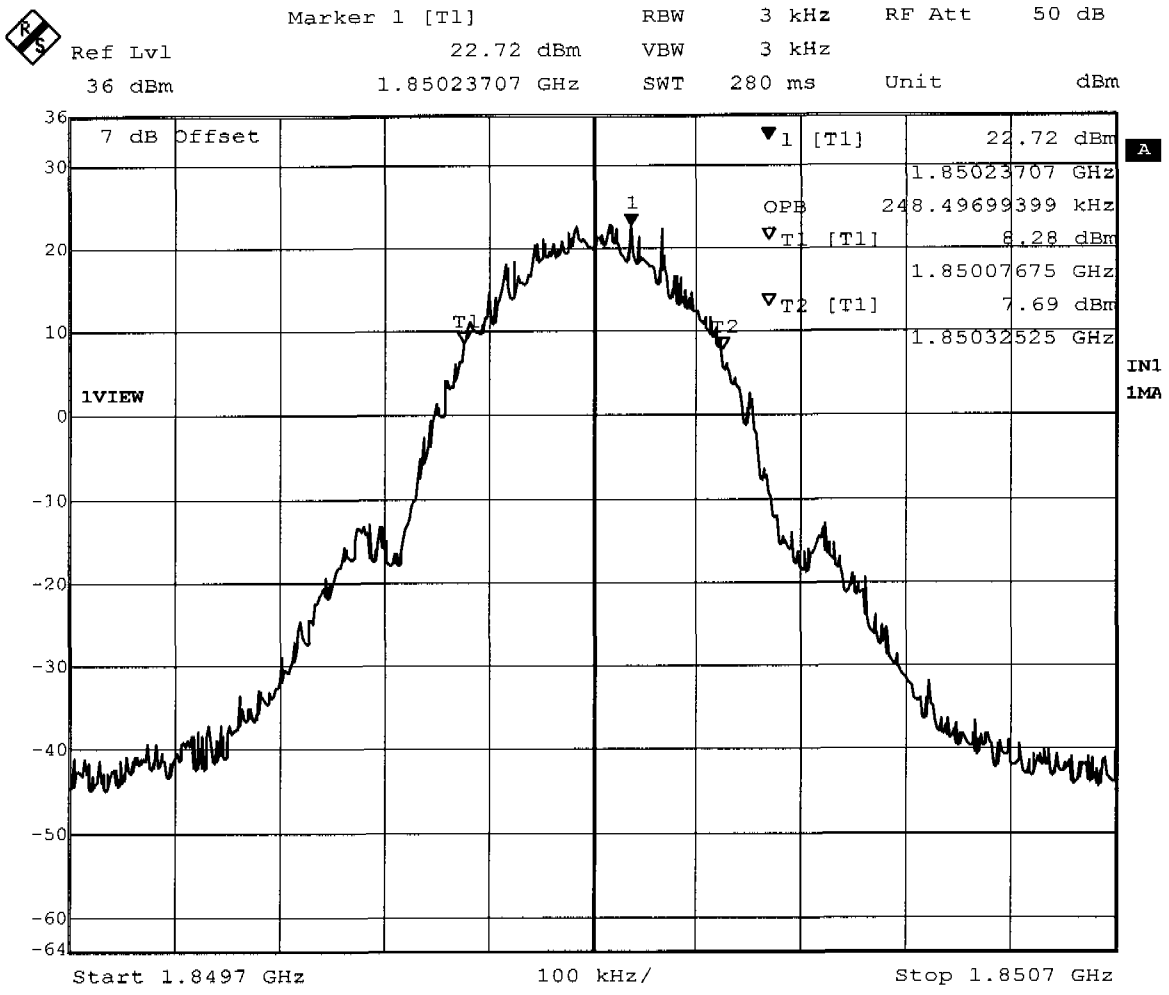
Audio Filter Characteristics

Appendix F

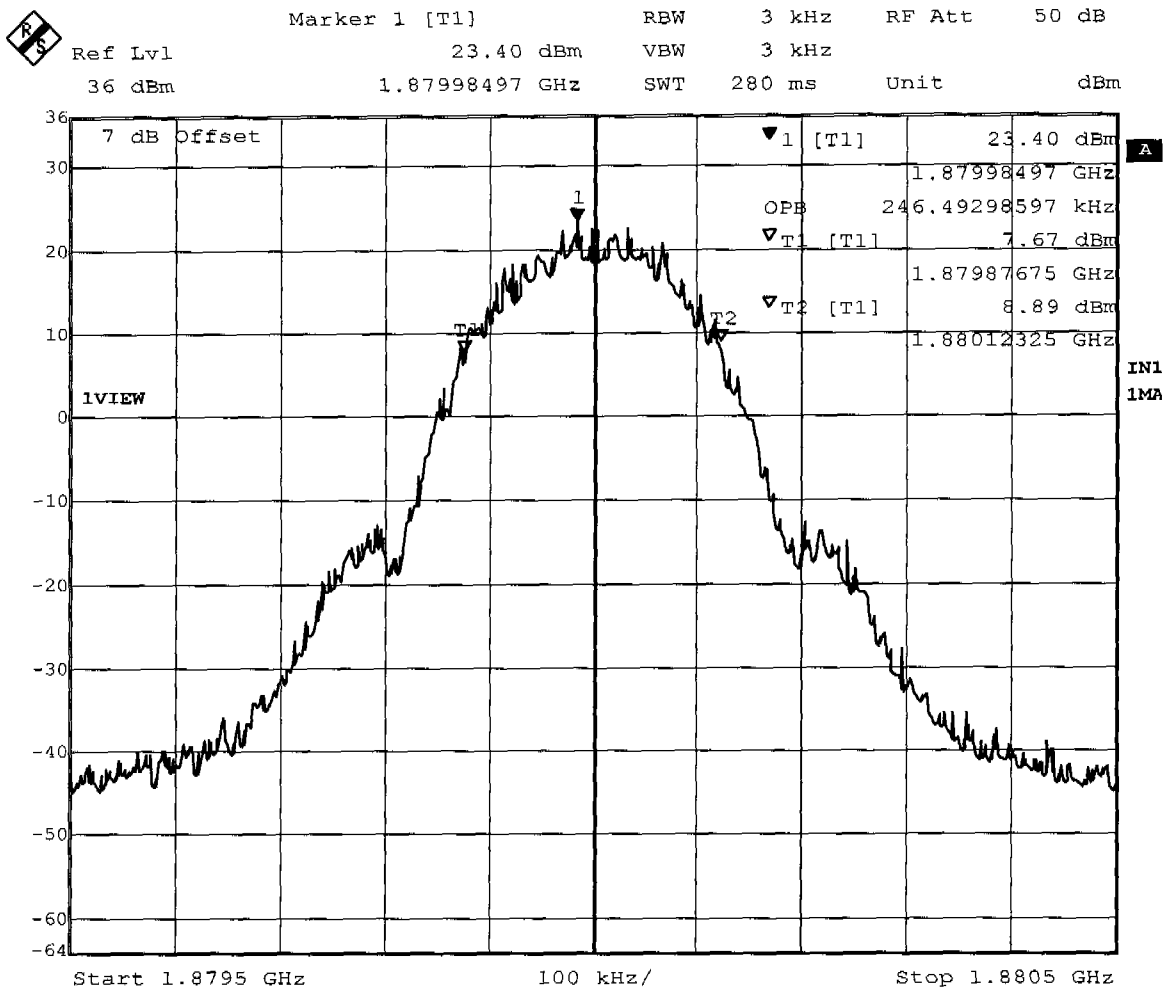
Emission Limitation

Appendix G

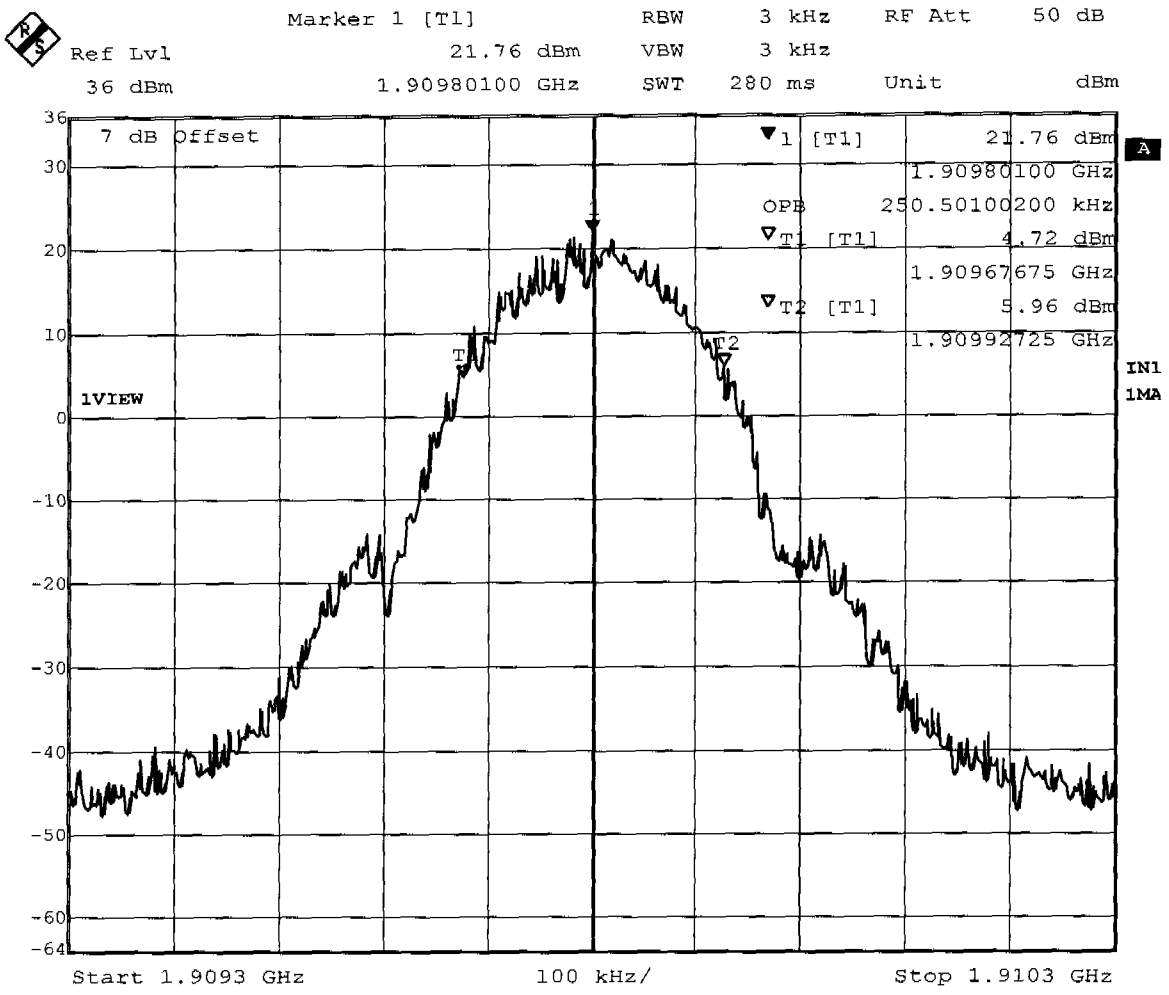
Occupied Bandwidth



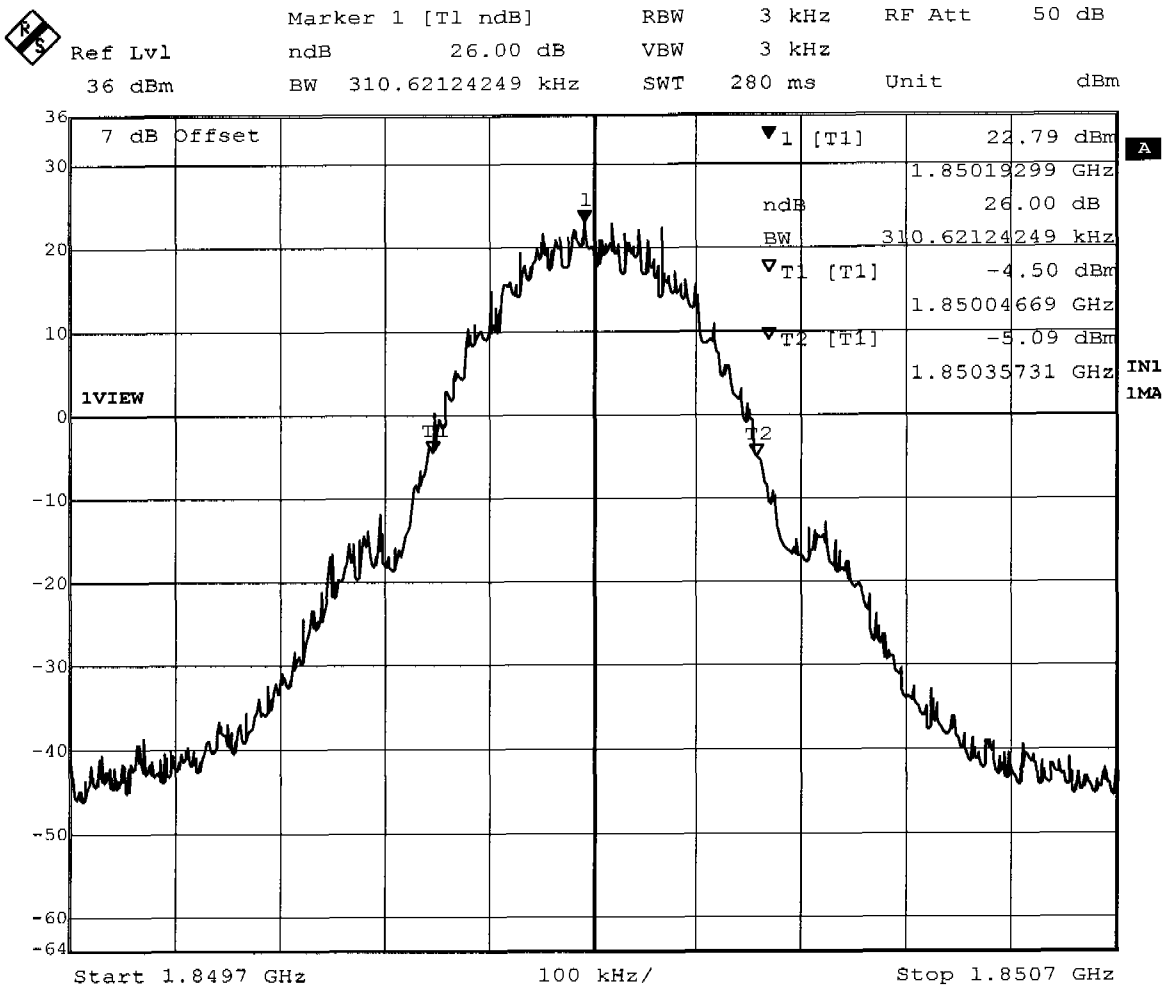
Title: Occupied Power Bandwidth Channel: 512
Comment A: MC3000NA
Date: 30.DEC.2003 12:47:04



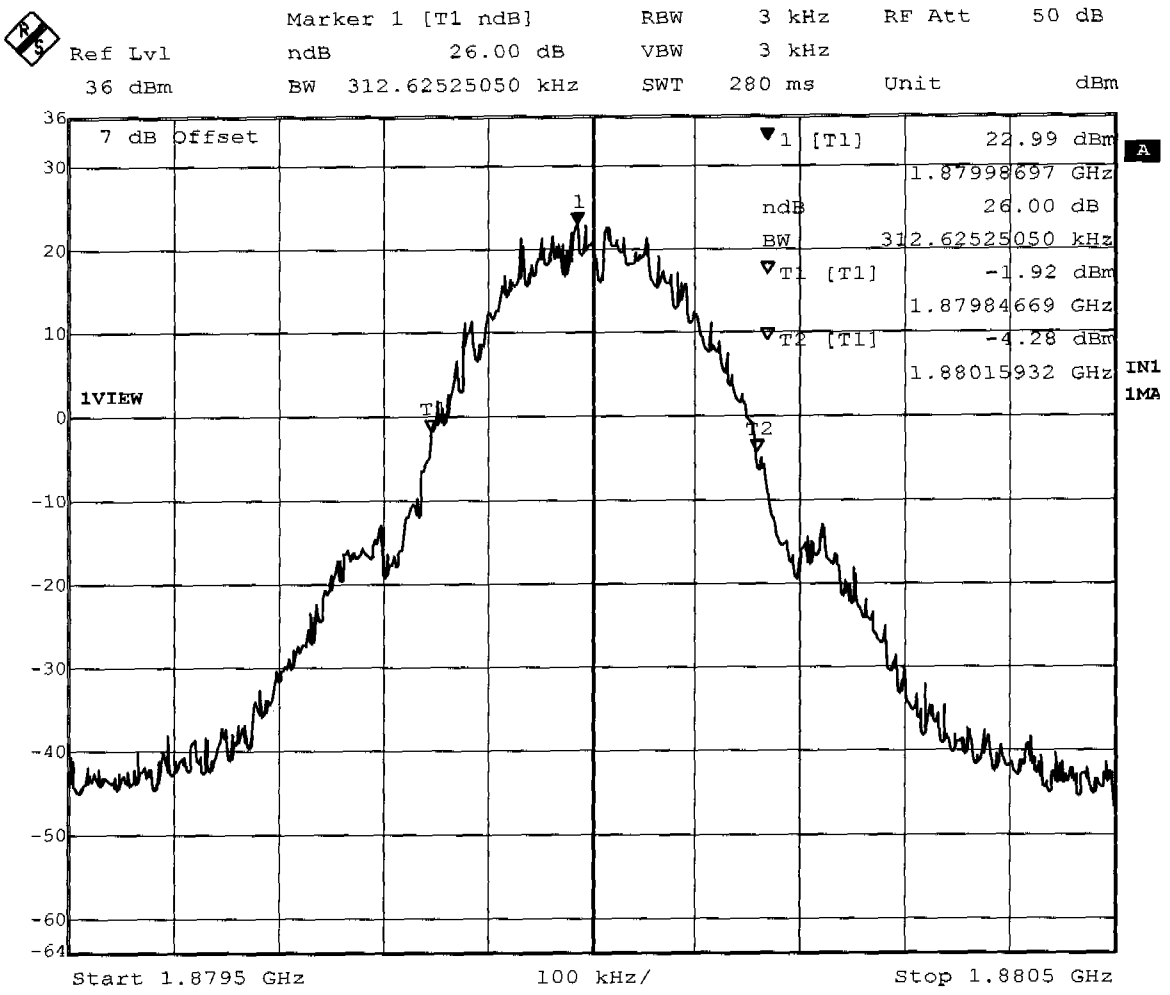
Title: Occupied Power Bandwidth Channel: 661
Comment A: MC3000NA
Date: 30.DEC.2003 12:54:46



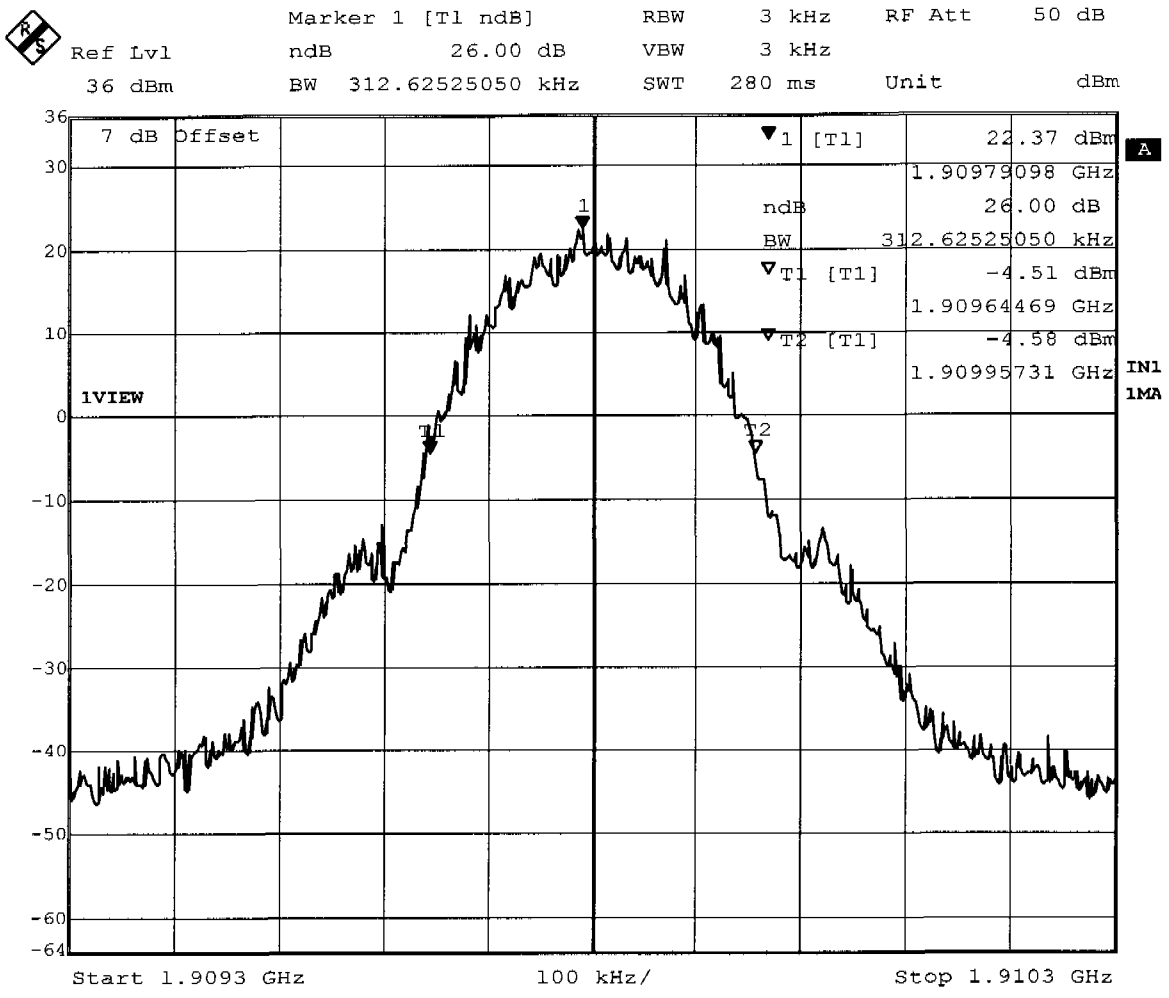
Title: Occupied Power Bandwidth Channel: 810
Comment A: MC3000NA
Date: 30.DEC.2003 13:00:06



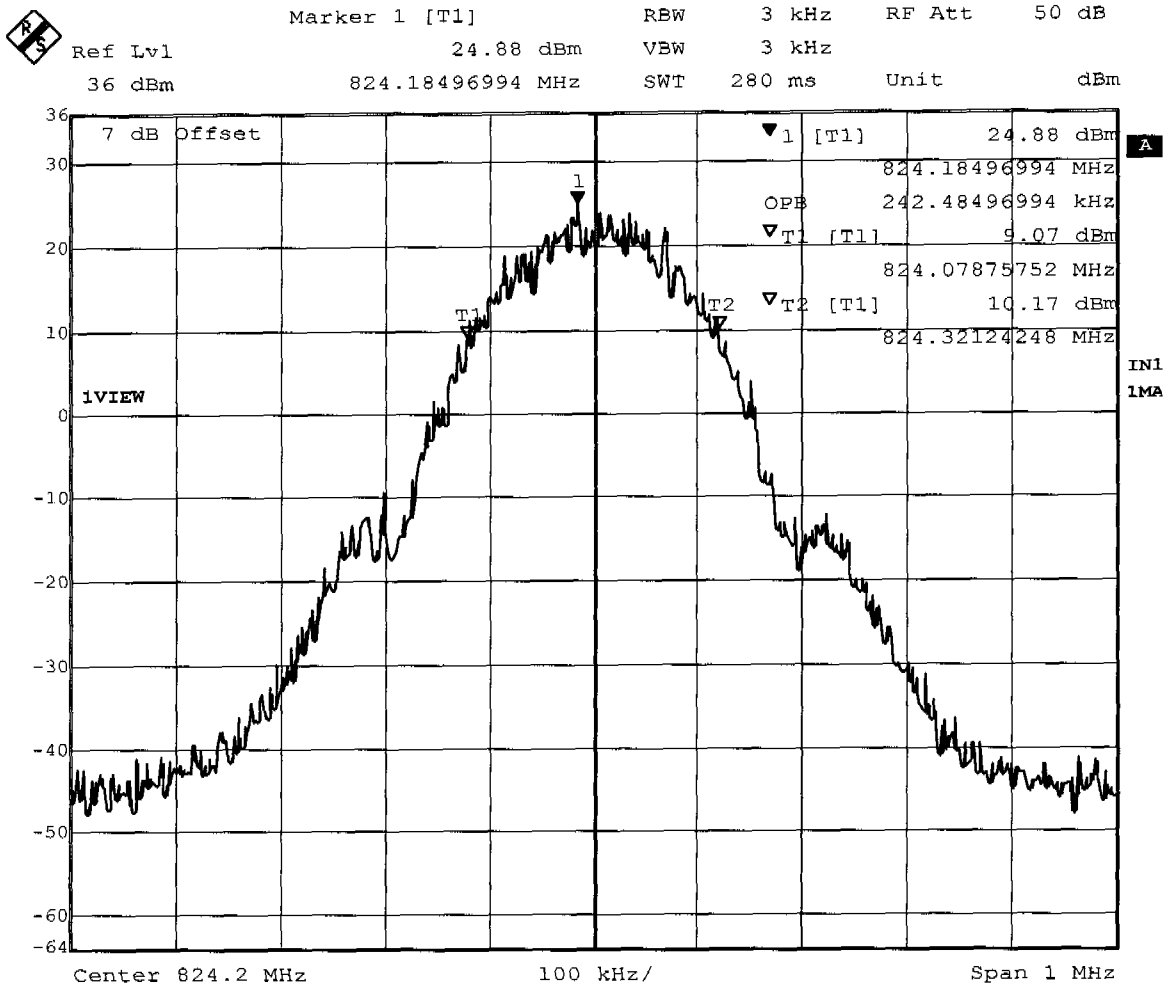
Title: -26 dBc Emission Bandwidth Channel: 512
Comment A: MC3000NA
Date: 30.DEC.2003 12:45:22



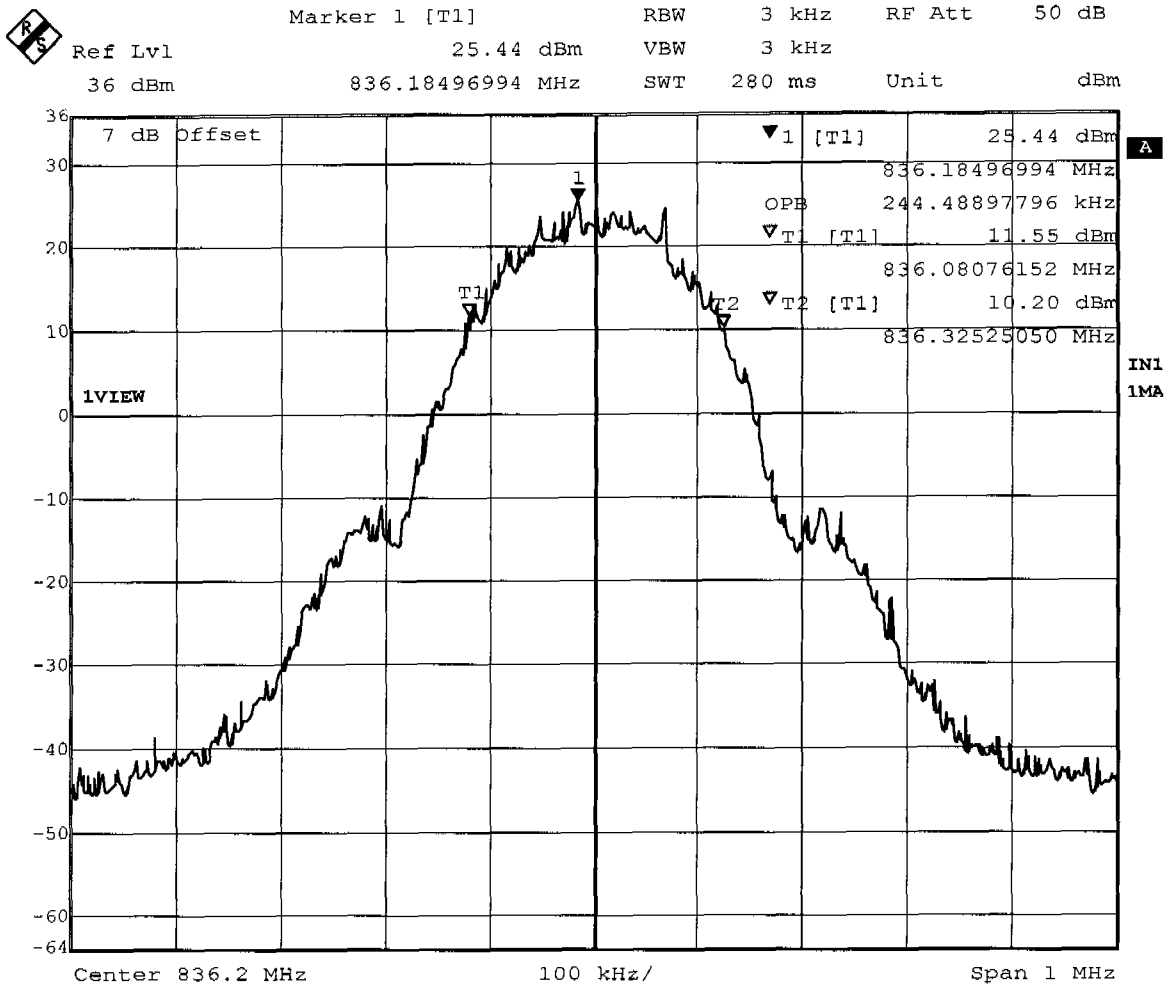
Title: -26 dBc Emission Bandwidth Channel: 661
Comment A: MC3000NA
Date: 30.DEC.2003 12:56:13



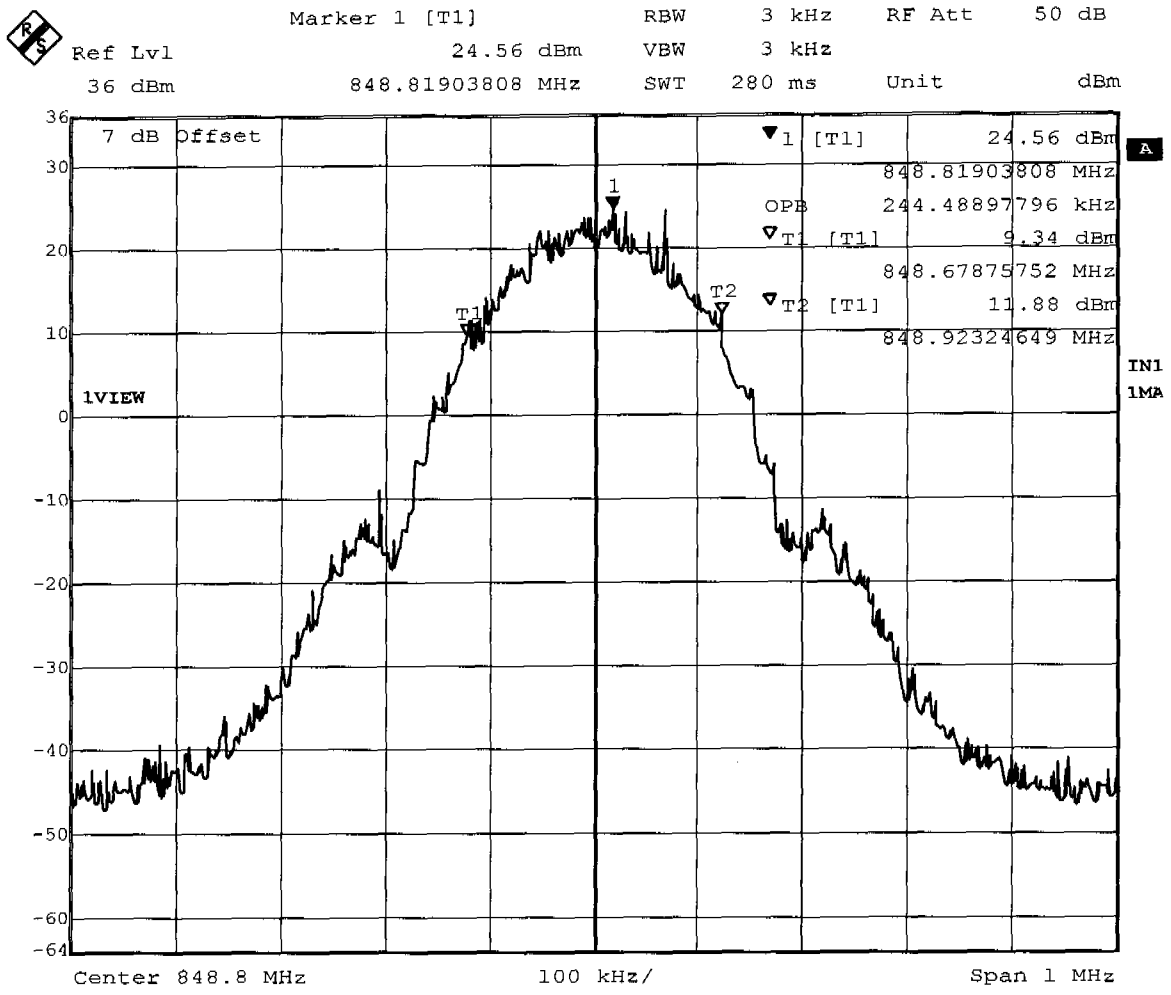
Title: -26 dBc Emission Bandwidth Channel: 810
Comment A: MC3000NA
Date: 30.DEC.2003 12:58:51



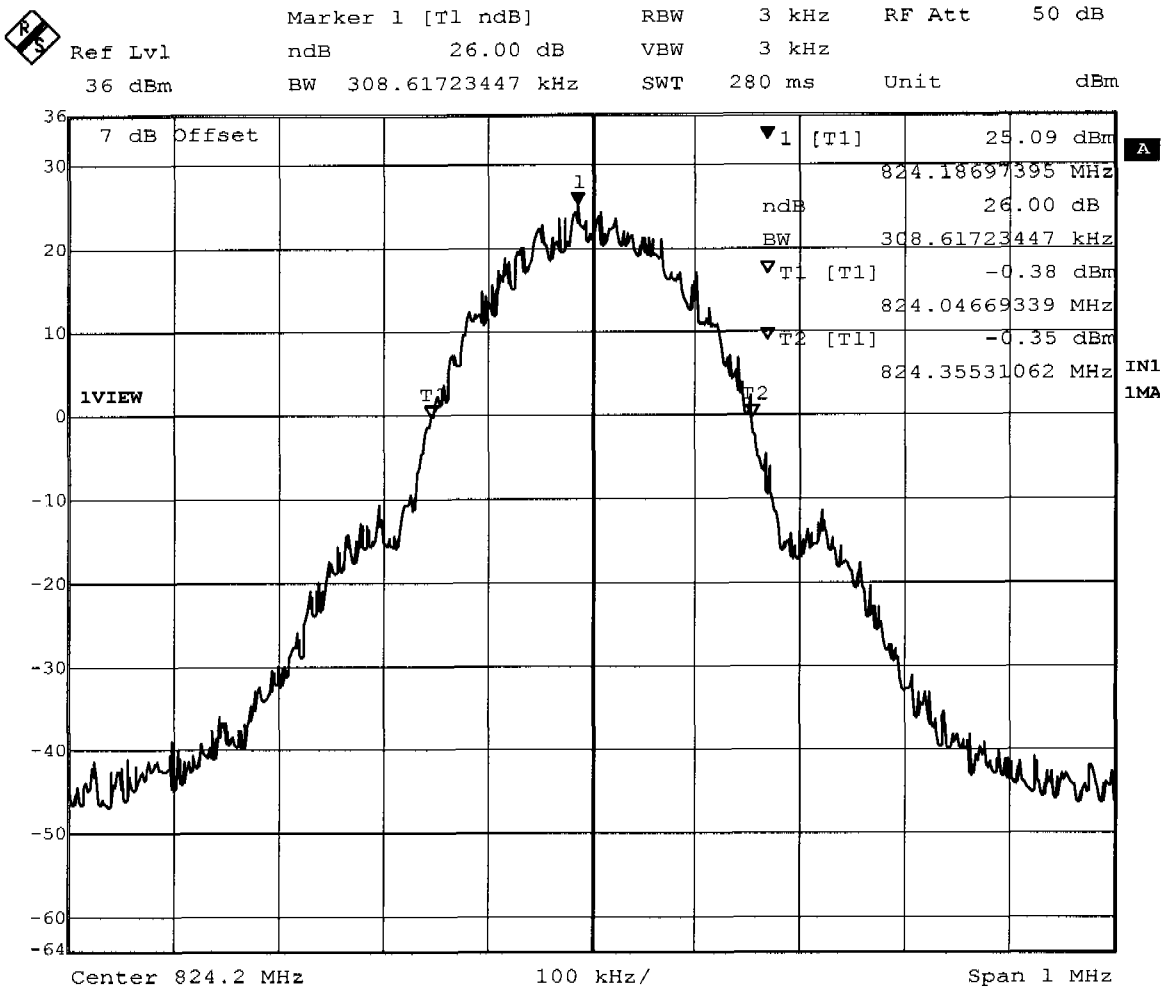
Title: Occupied Power Bandwidth Channel: 128
Comment A: MC3000NA
Date: 30.DEC.2003 09:01:02



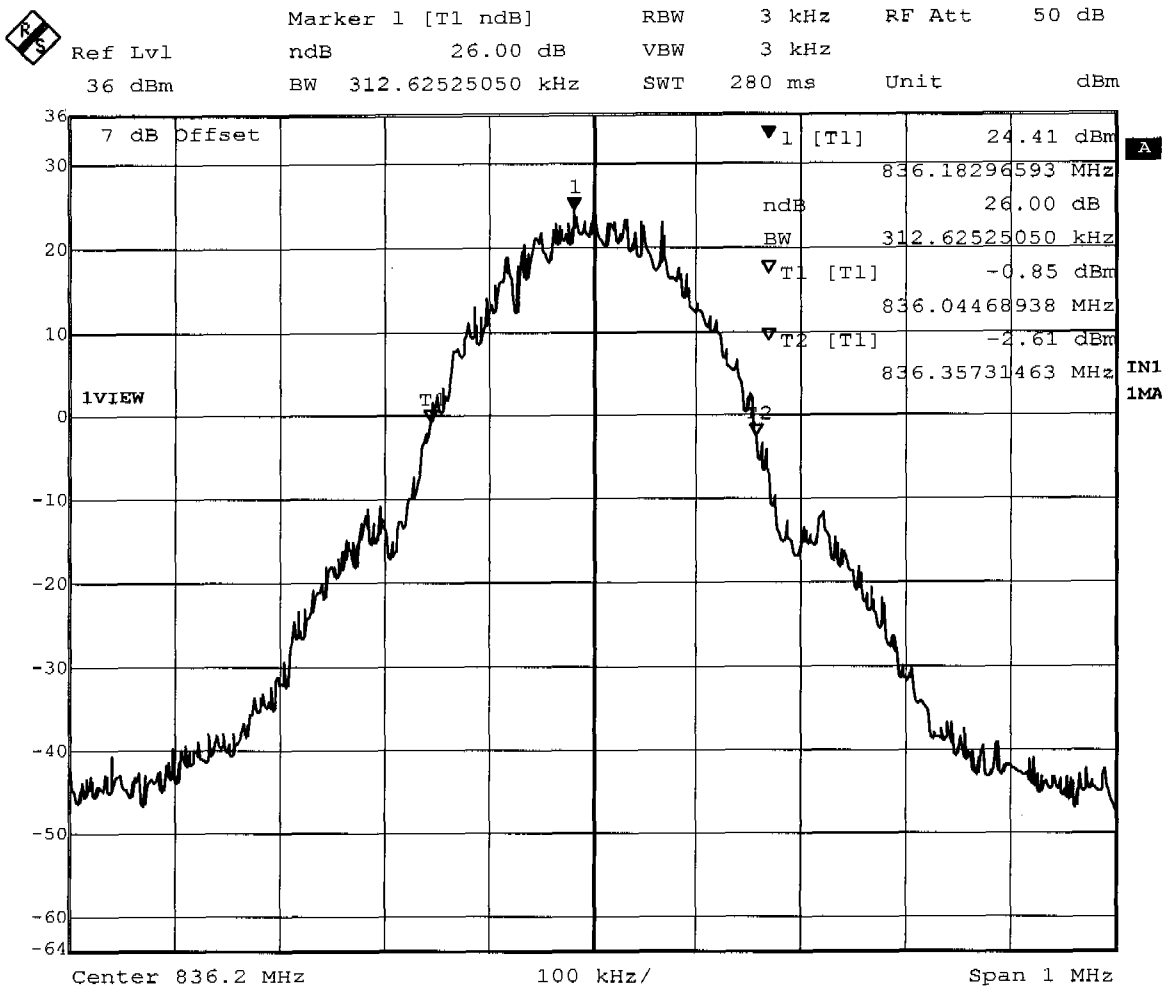
Title: Occupied Power Bandwidth Channel: 188
Comment A: MC3000NA
Date: 30.DEC.2003 09:42:44



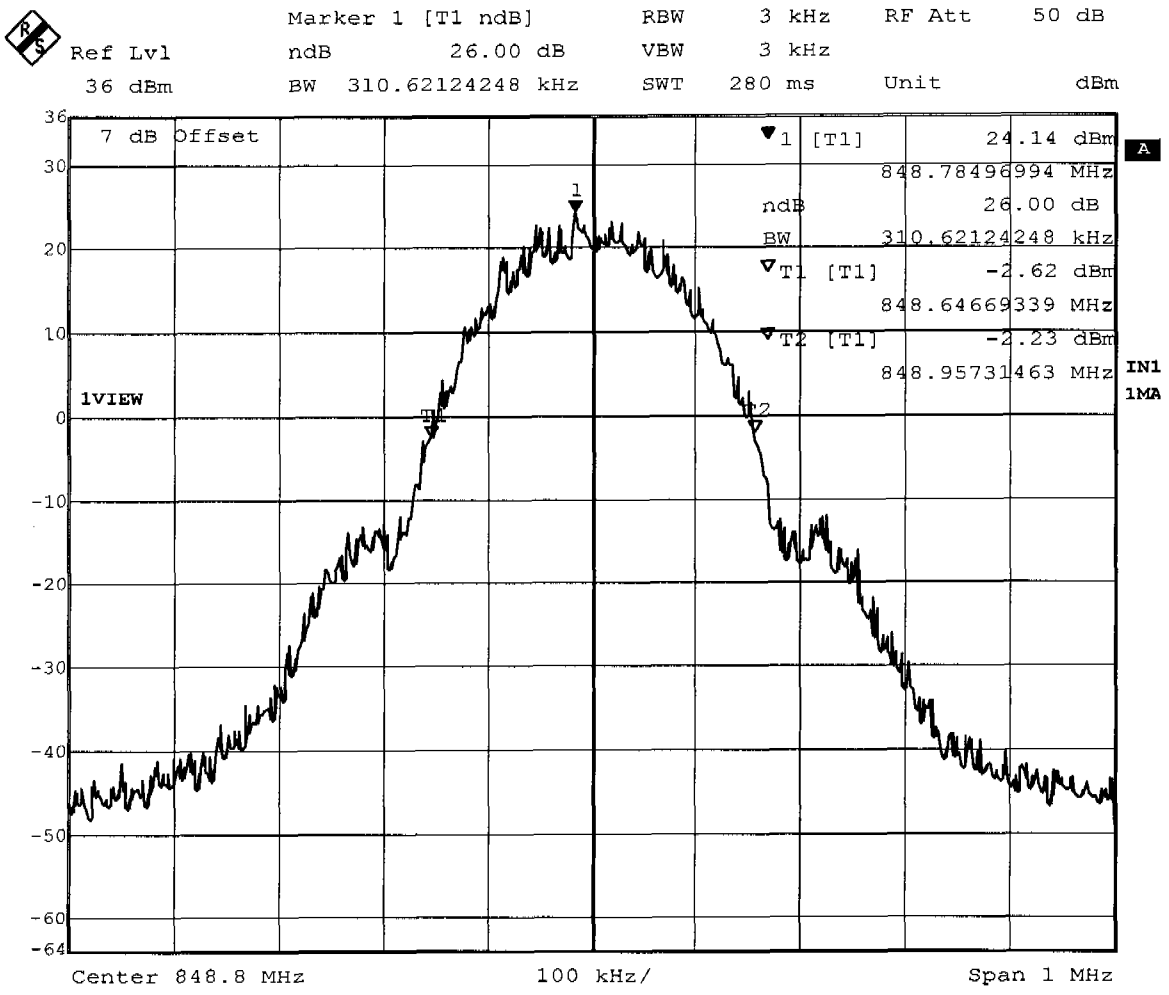
Title: Occupied Power Bandwidth Channel: 251
Comment A: MC3000NA
Date: 30.DEC.2003 08:54:25



Title: -26 dBc Emission Bandwidth Channel: 128
Comment A: MC3000NA
Date: 30.DEC.2003 09:38:51



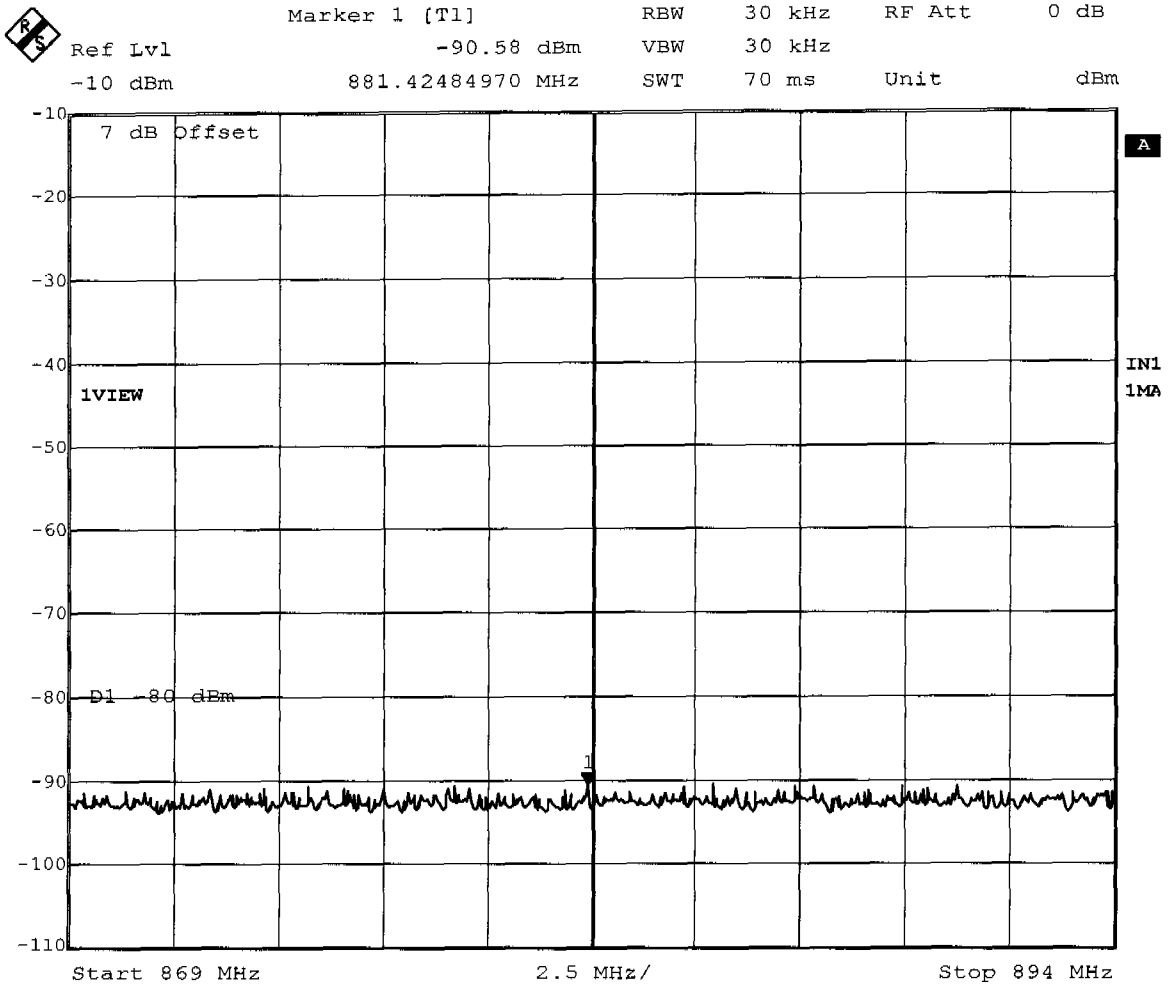
Title: -26 dBc Emission Bandwidth Channel: 188
Comment A: MC3000NA
Date: 30.DEC.2003 09:40:31



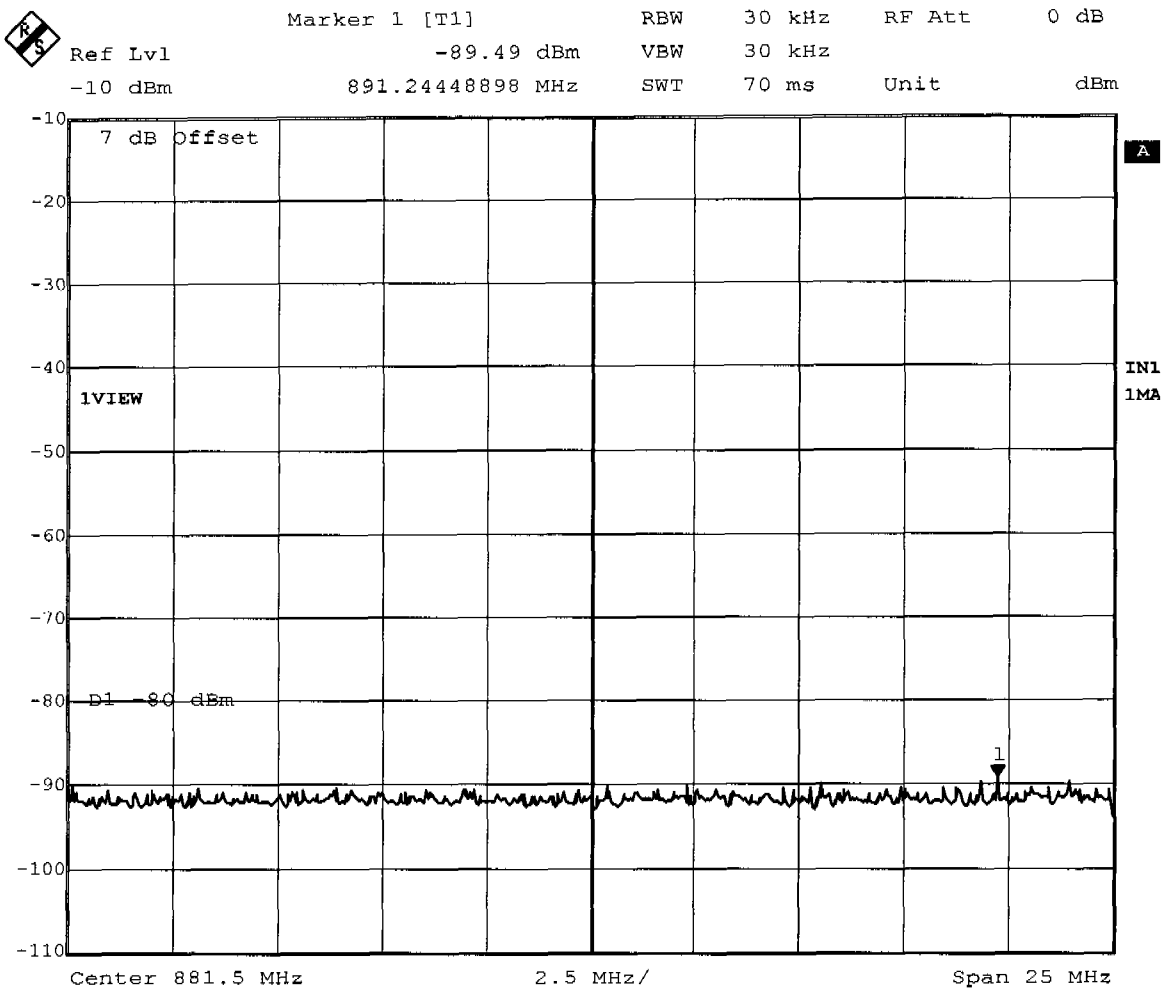
Title: -26 dBc Emission Bandwidth Channel: 251
Comment A: MC3000NA
Date: 30.DEC.2003 08:51:24

Appendix H

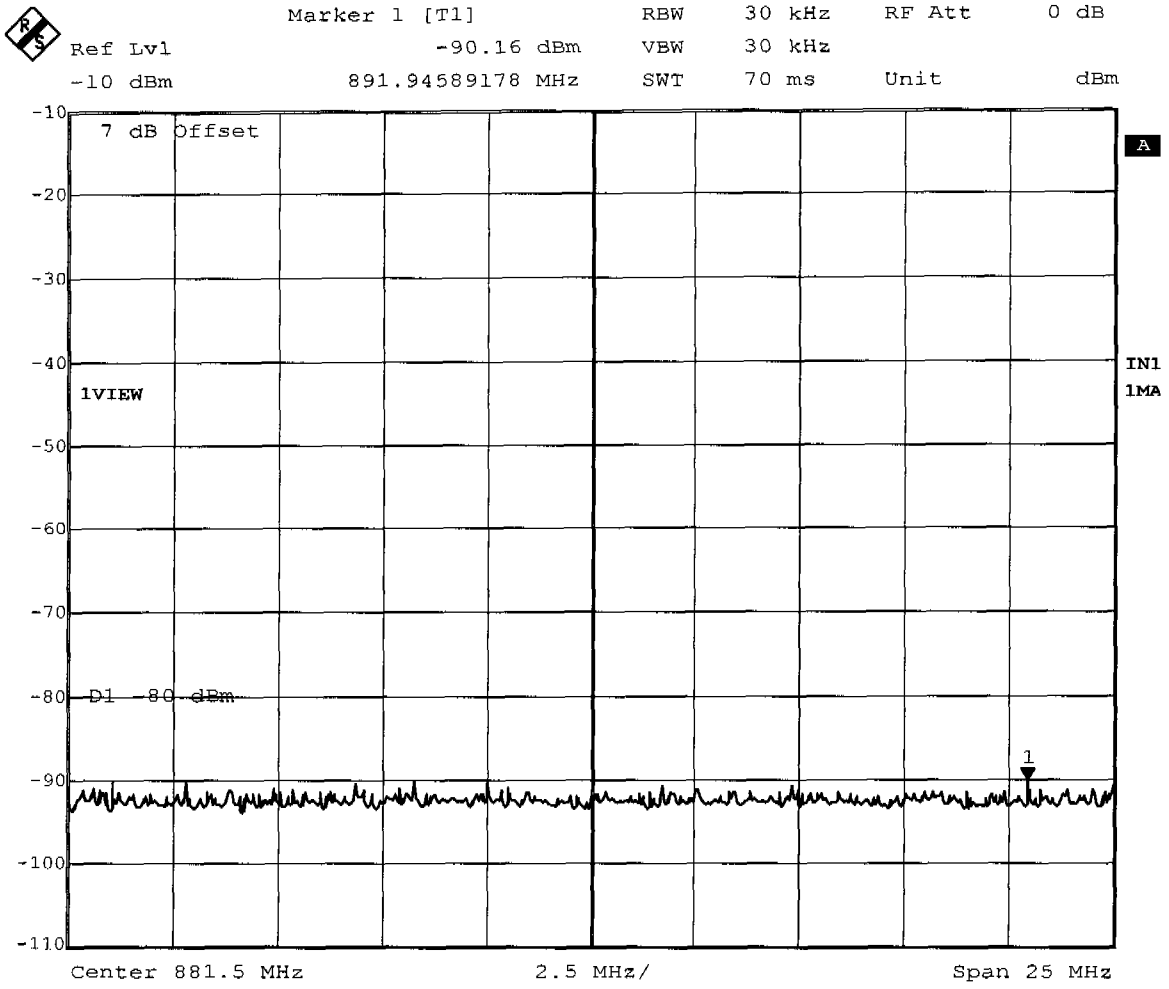
Emissions in Receiver Critical Band



Title: Emissions in Receiver Critical Band Channel: 128
Comment A: MC3000NA
Date: 30.DEC.2003 09:58:54



Title: Emissions in Receiver Critical Band Channel: 188
Comment A: MC3000NA
Date: 30.DEC.2003 09:50:21



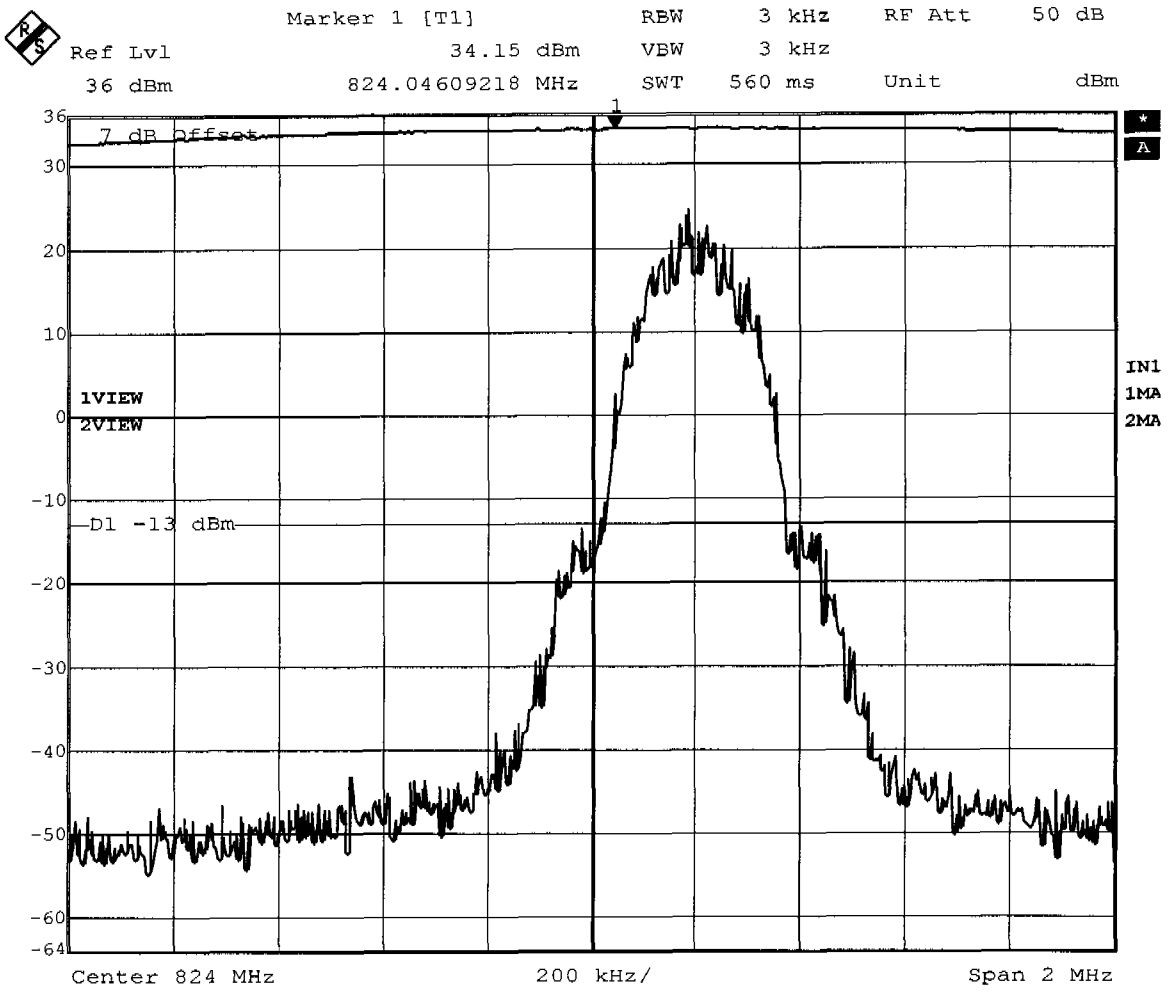
Title: Emissions in Receiver Critical Band Channel: 251
Comment A: MC3000NA
Date: 30.DEC.2003 09:55:58

Appendix I

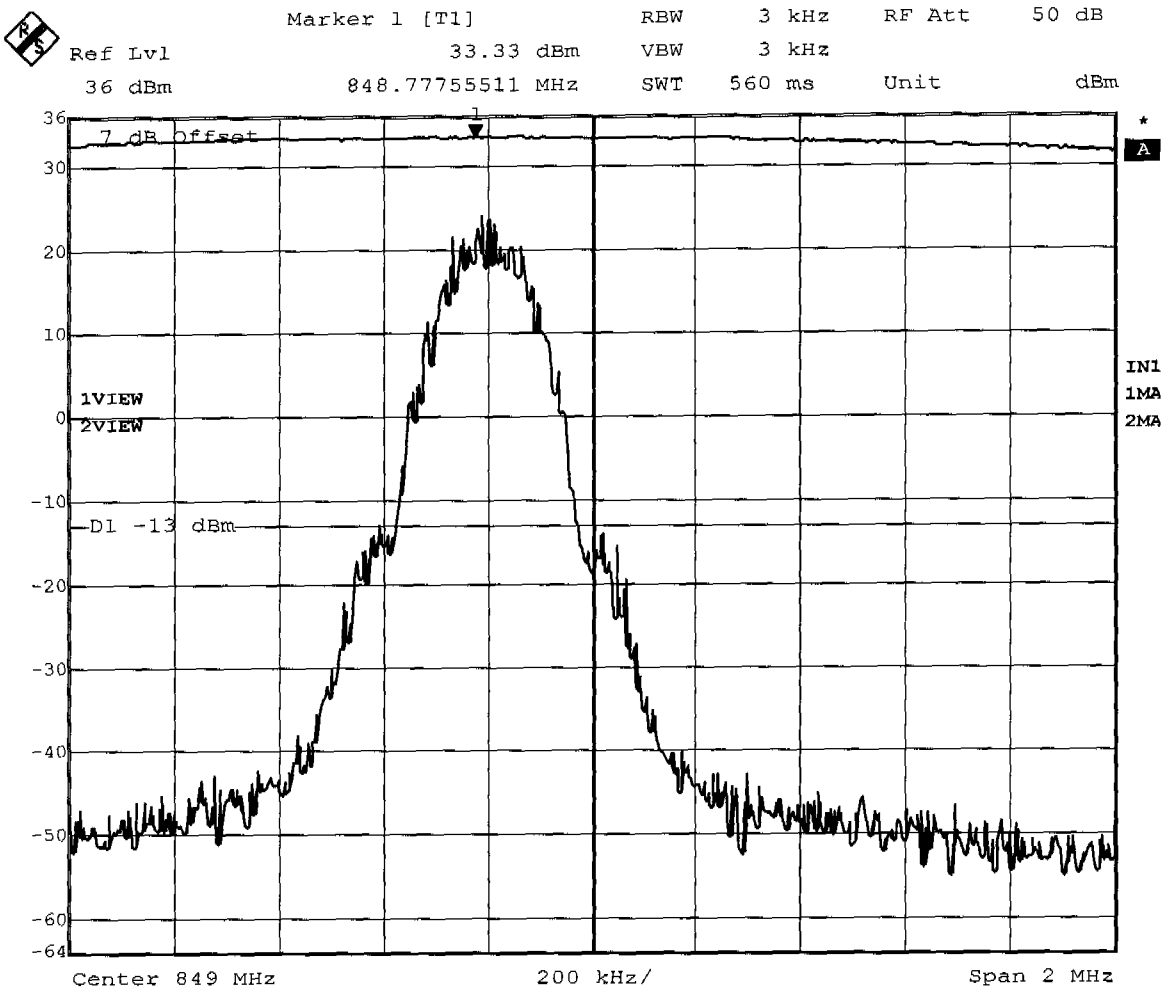
Out of Band Emission at Antenna Terminals Mobile Emissions In Base Frequency Range

Appendix J

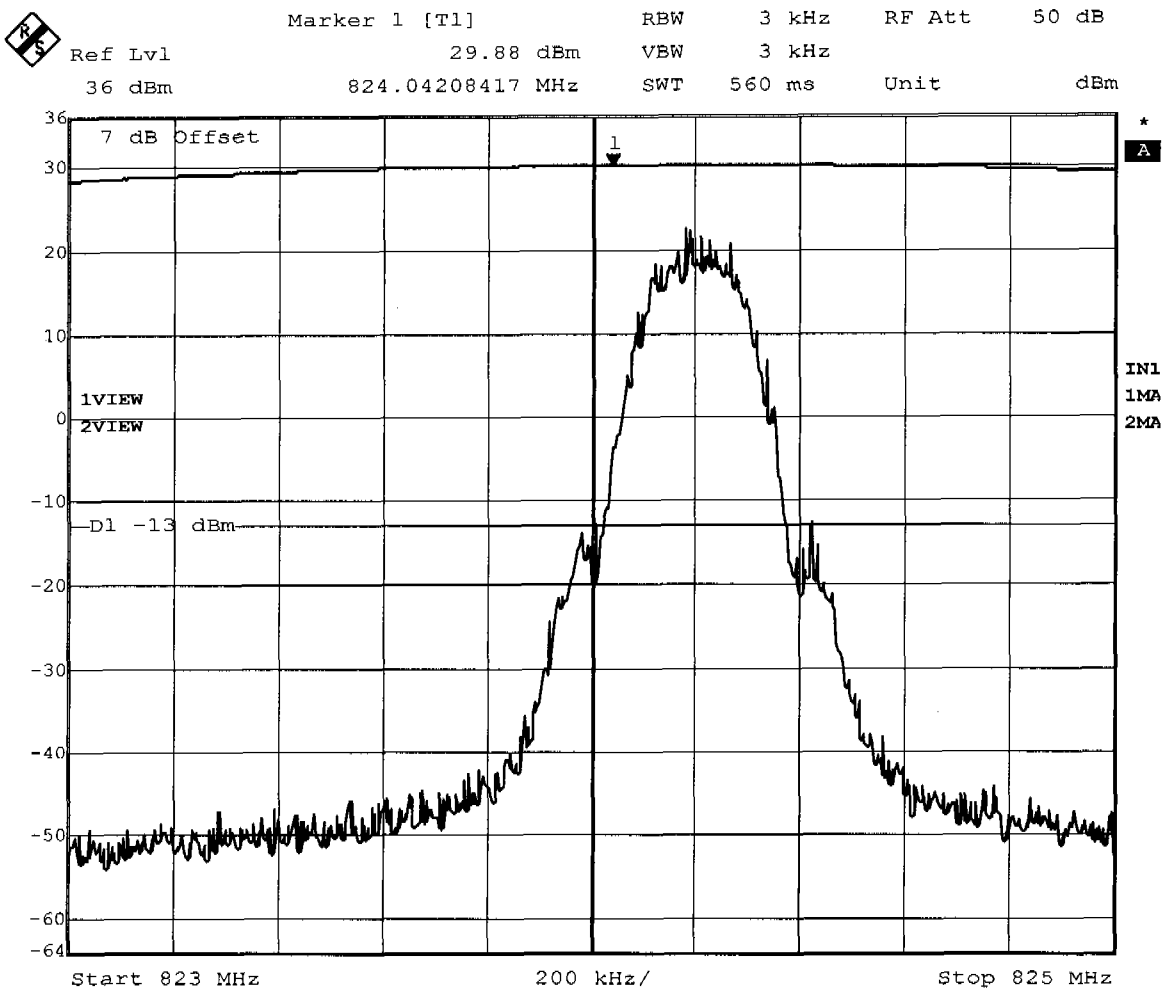
Field Strength of Spurious Radiation



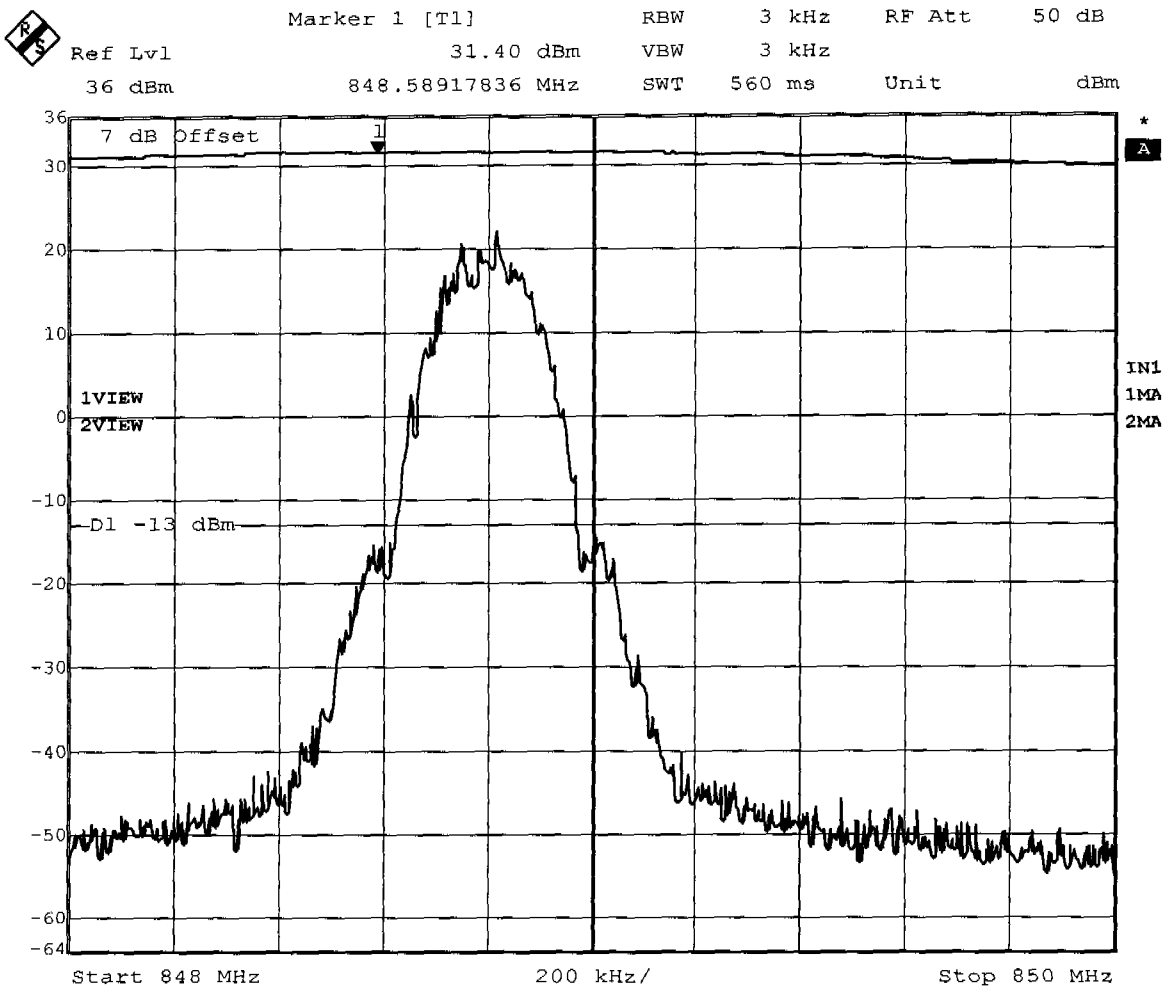
Title: Lower Band Edge
Comment A: MC3000NA
Date: 30.DEC.2003 08:47:09



Title: Higher Band Edge
Comment A: MC3000NA
Date: 30.DEC.2003 08:49:16



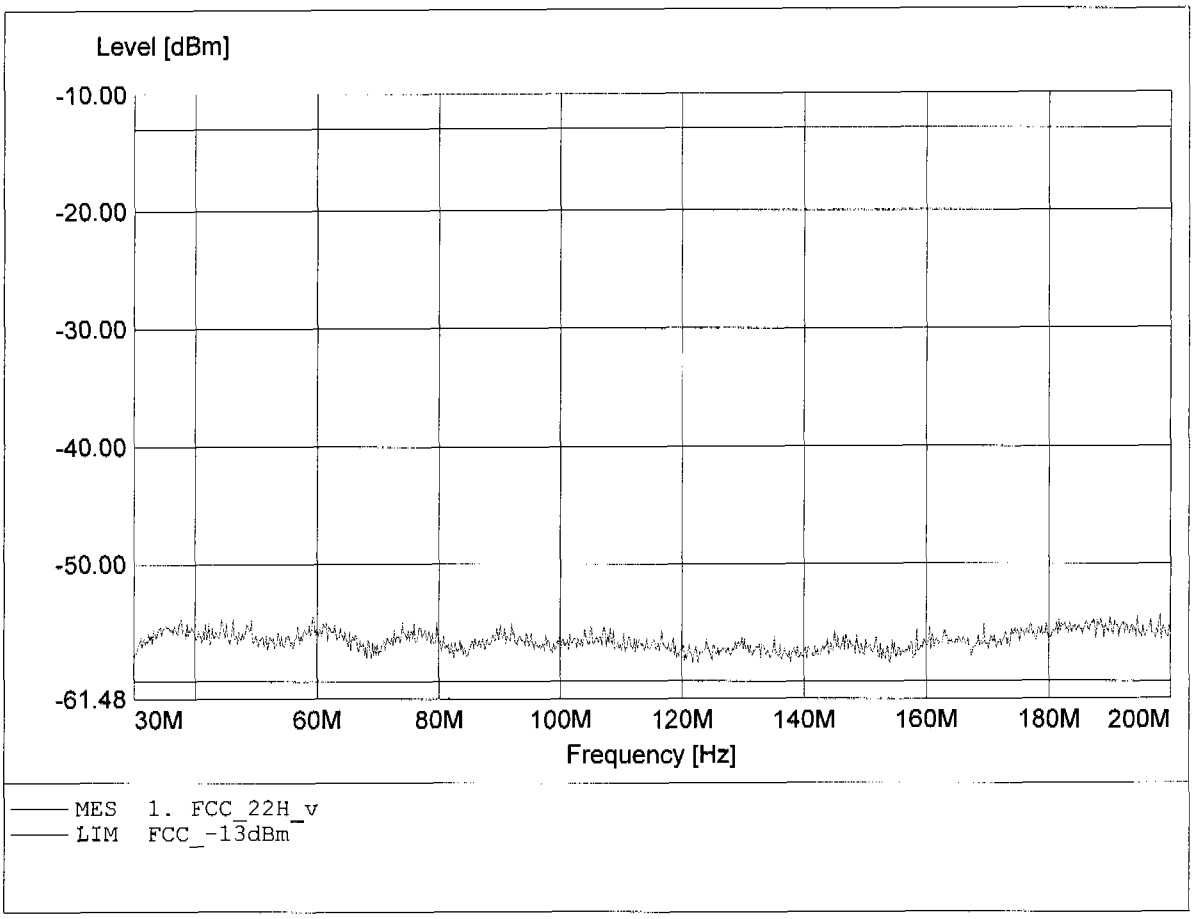
Title: Lower Band Edge
Comment A: siemens cingular
Date: 30.DEC.2003 10:16:19



Title: Higher Band Edge
Comment A: siemens cingular
Date: 30.DEC.2003 10:18:26

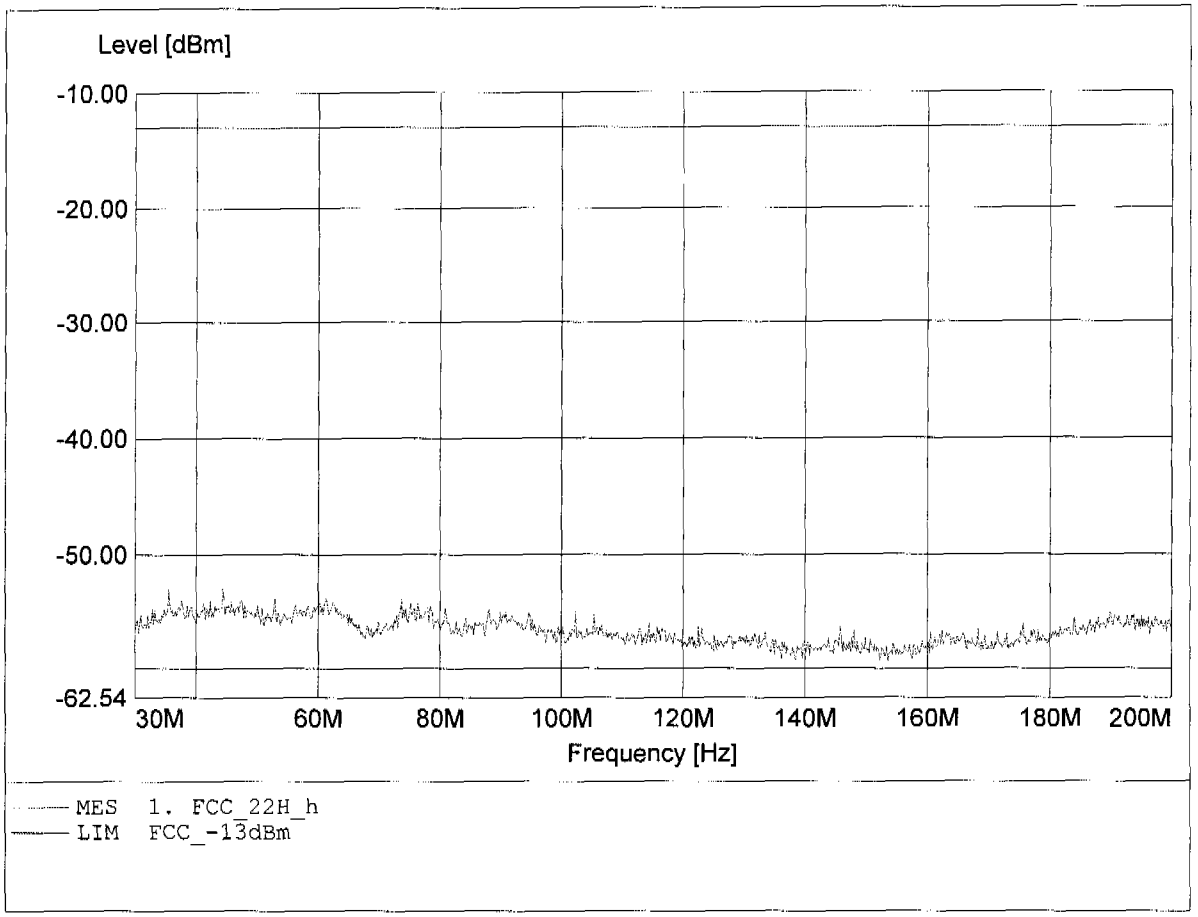
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	128
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HK 116
Comment 2:	Freq: 198.300MHz, Pmax: -54.29dBm, RBW: 1MHz



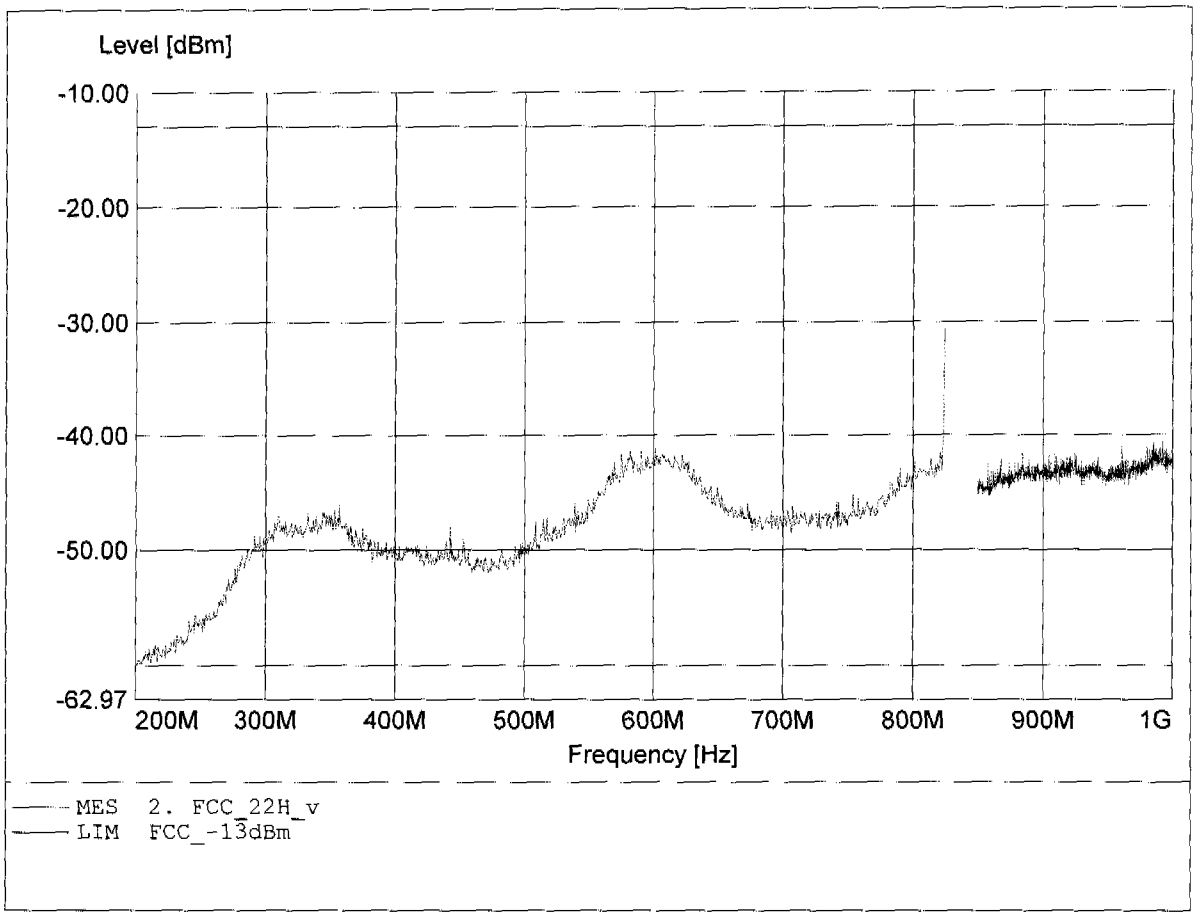
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	128
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HK 116
Comment 2:	Freq: 44.356MHz, Pmax: -53.00dBm, RBW: 1MHz



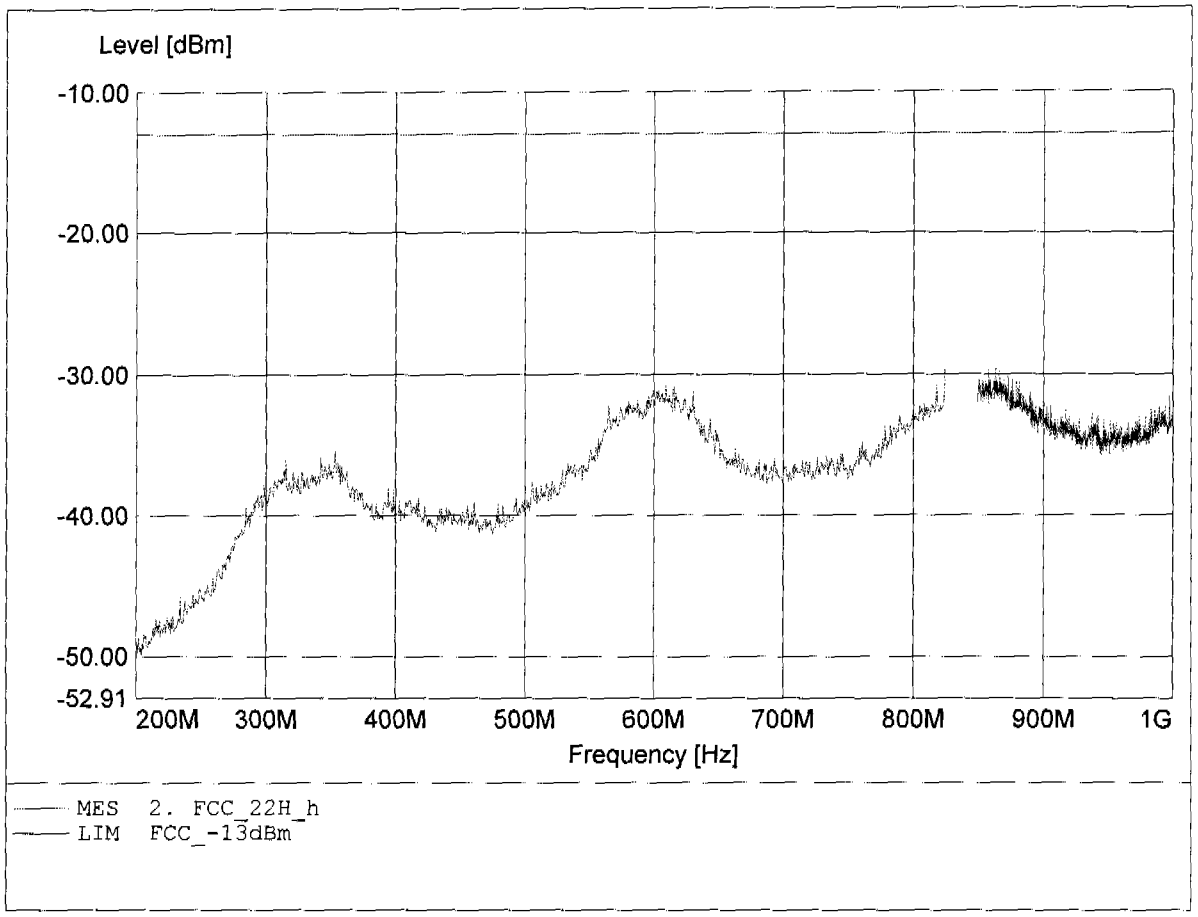
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	128
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL 223+notch
Comment 2:	Freq: 824.000MHz, Pmax: -30.63dBm, RBW: 1MHz



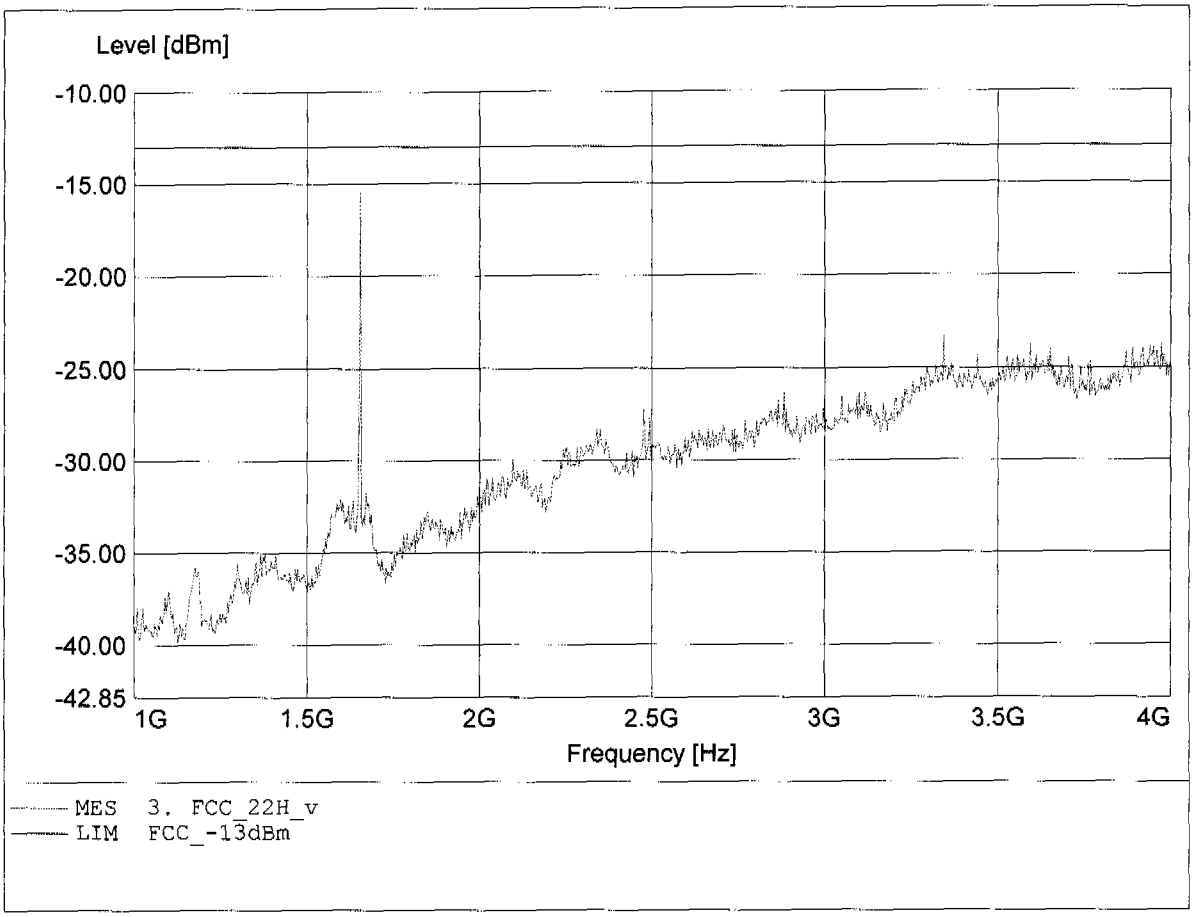
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	128
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL 223+notch
Comment 2:	Freq: 863.261MHz, Pmax: -29.64dBm, RBW: 1MHz



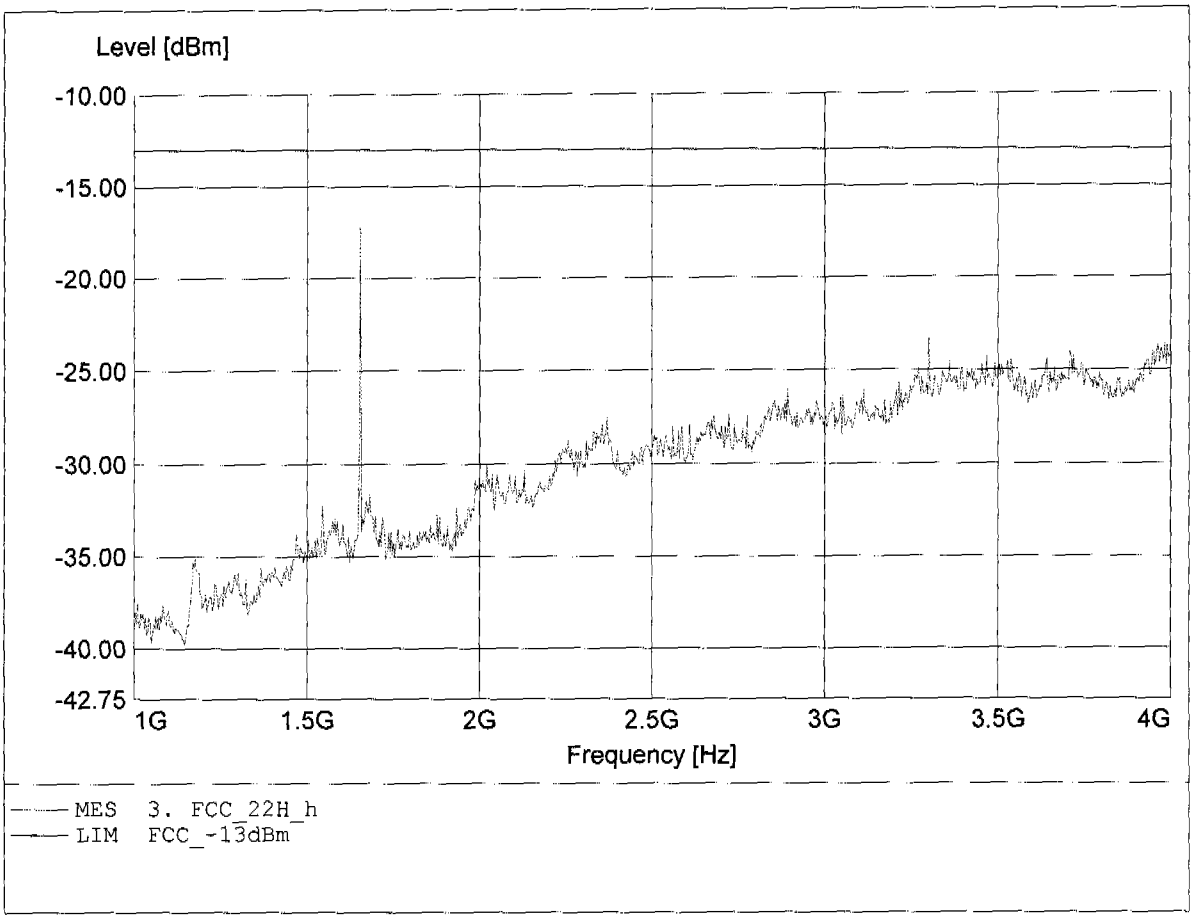
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	128
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL025
Comment 2:	Freq: 1.653GHz, Pmax: -15.39dBm, RBW: 1MHz



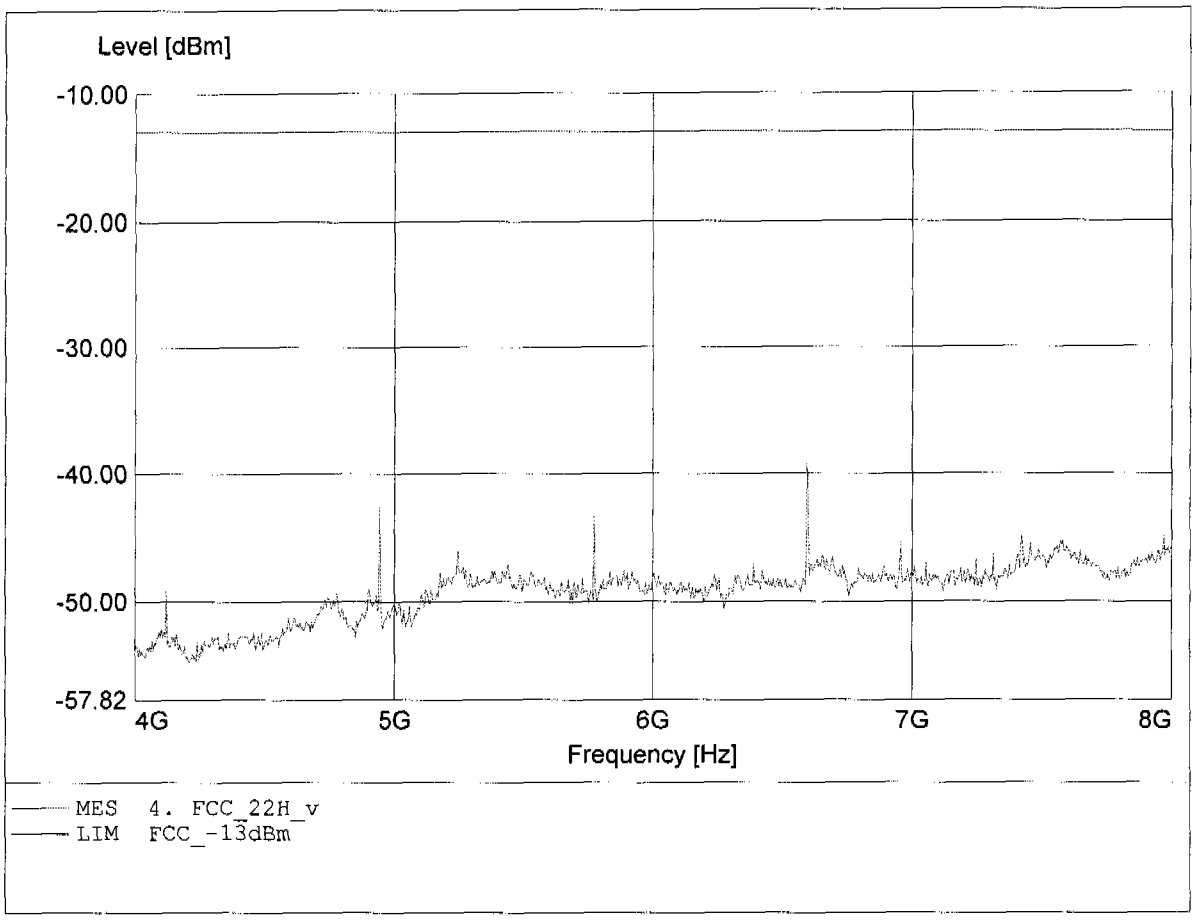
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	128
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL025
Comment 2:	Freq: 1.653GHz, Pmax: -17.23dBm, RBW: 1MHz



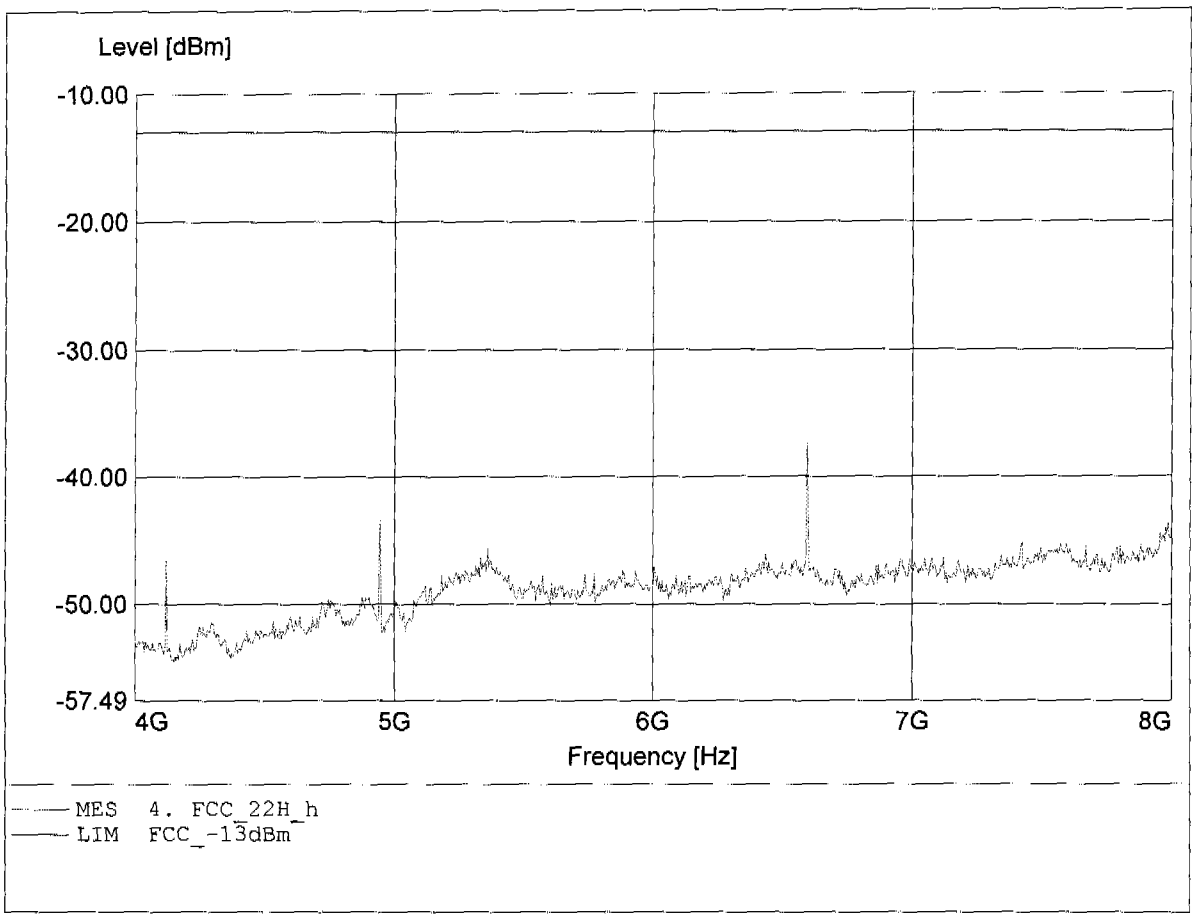
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	128
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 6.596GHz, Pmax: -39.20dBm, RBW: 1MHz



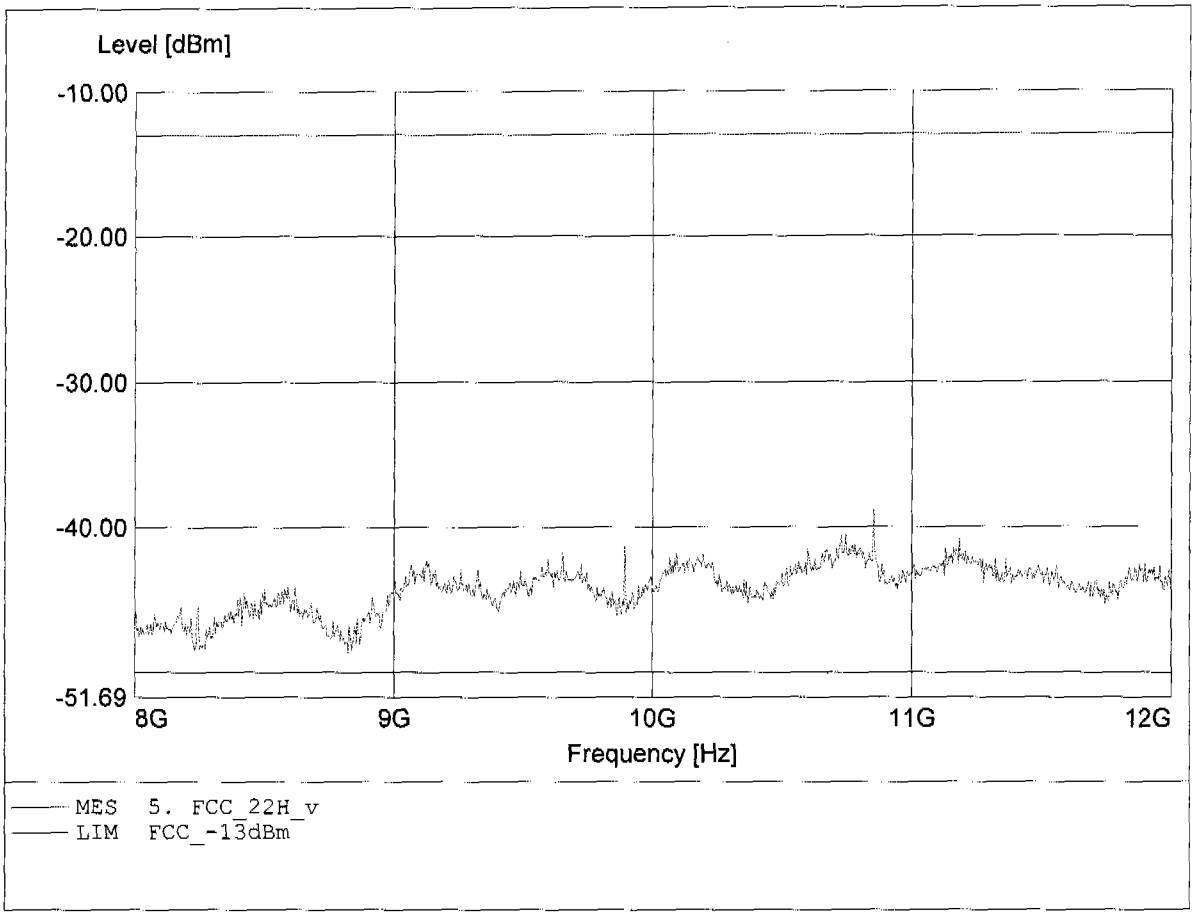
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	128
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 6.596GHz, Pmax: -37.42dBm, RBW: 1MHz



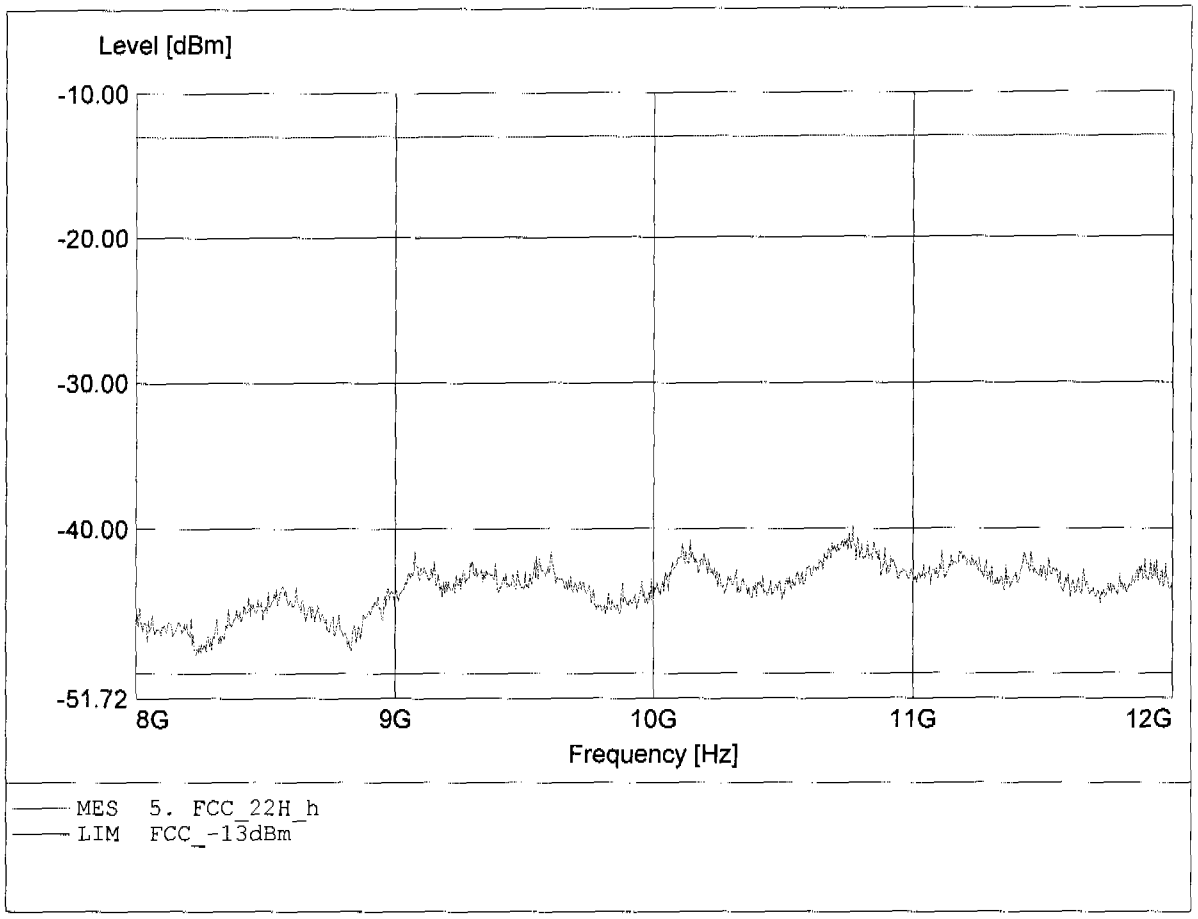
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	128
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 10.853GHz, Pmax: -38.84dBm, RBW: 1MHz



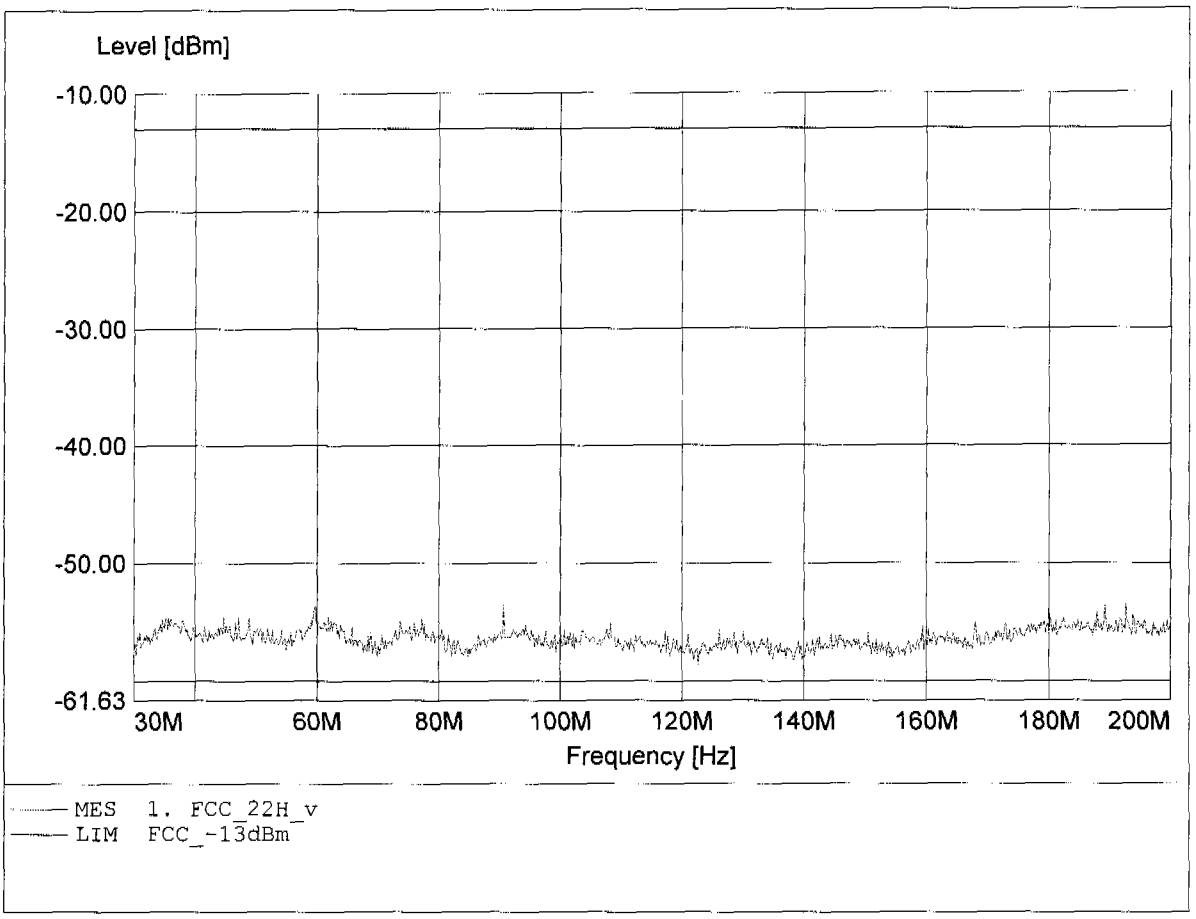
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	128
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 10.769GHz, Pmax: -39.81dBm, RBW: 1MHz



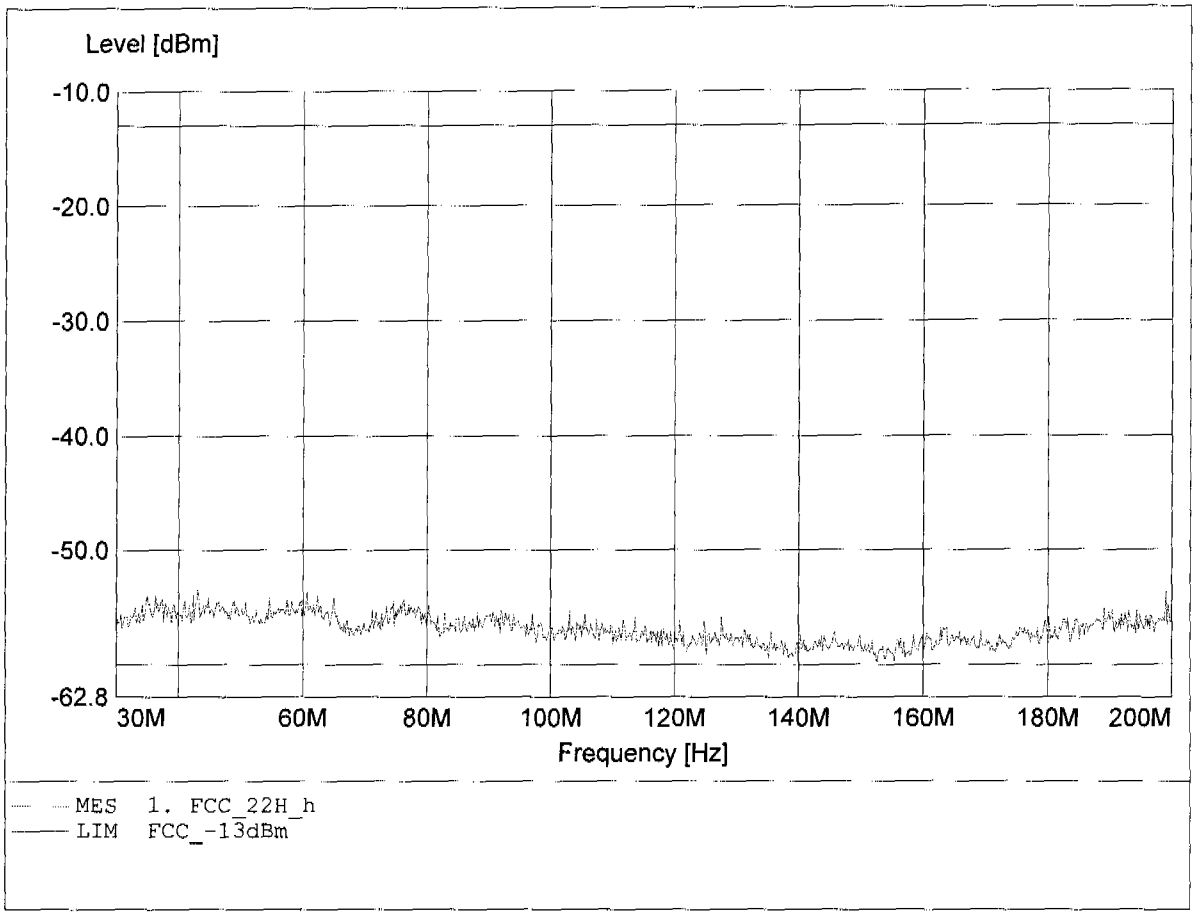
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	188
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HK 116
Comment 2:	Freq: 192.633MHz, Pmax: -53.46dBm, RBW: 1MHz



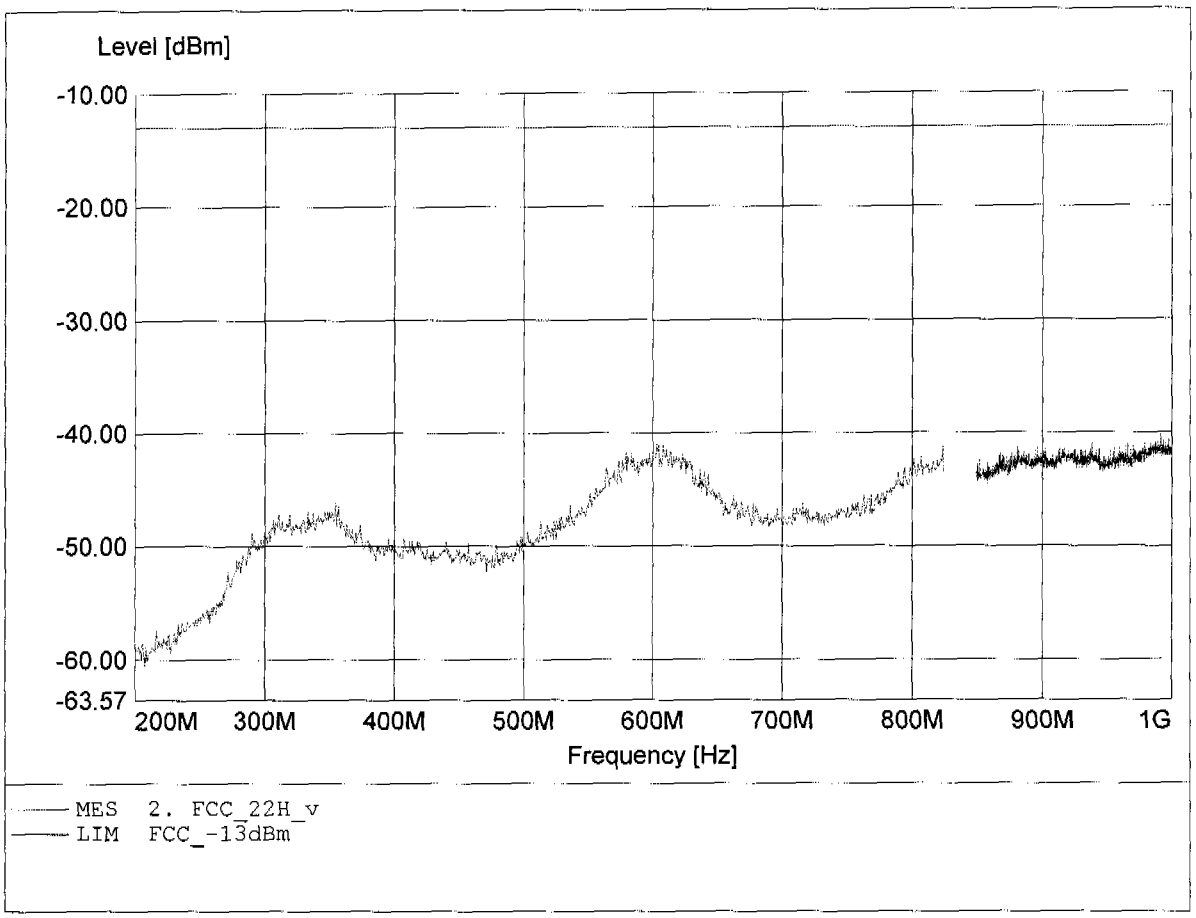
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	188
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HK 116
Comment 2:	Freq: 199.056MHz, Pmax: -53.48dBm, RBW: 1MHz



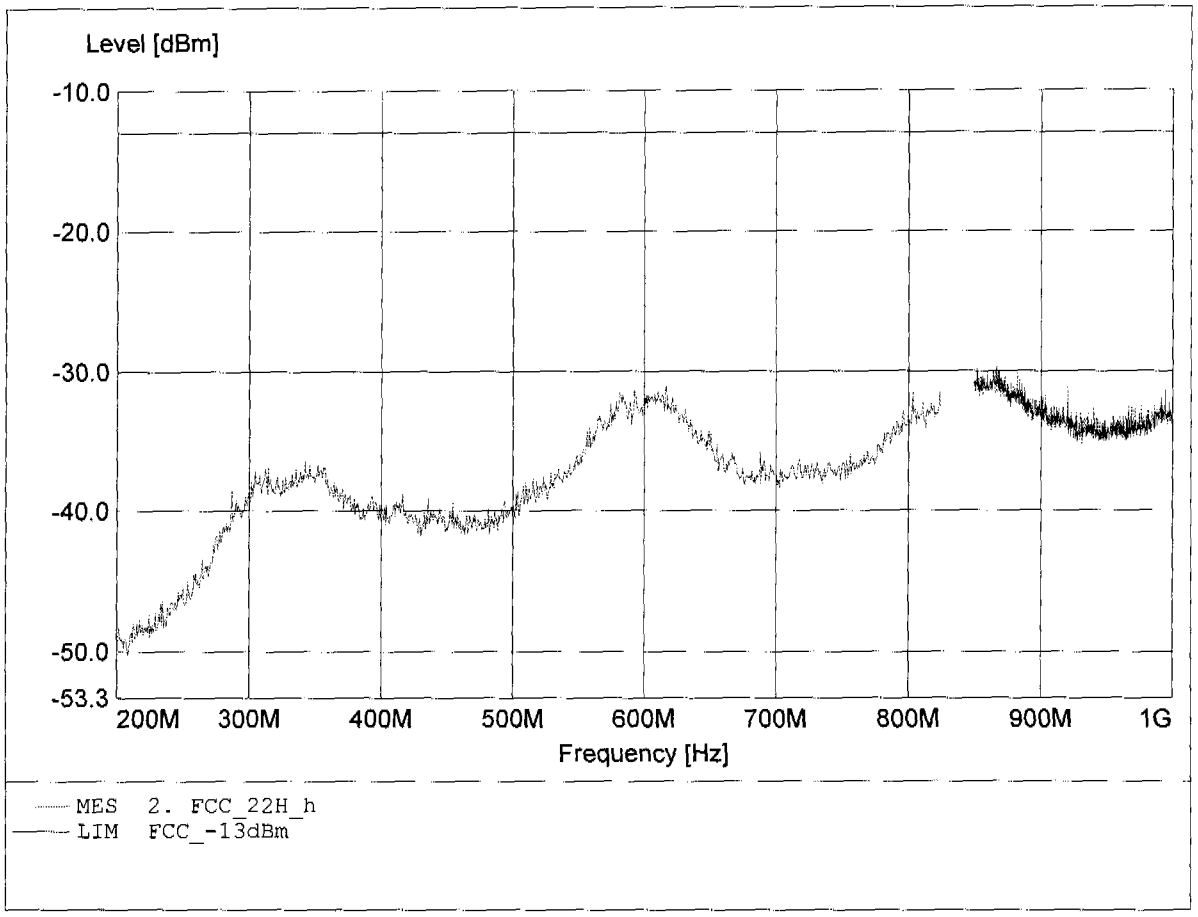
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	188
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL 223+notch
Comment 2:	Freq: 991.276MHz, Pmax: -40.26dBm, RBW: 1MHz



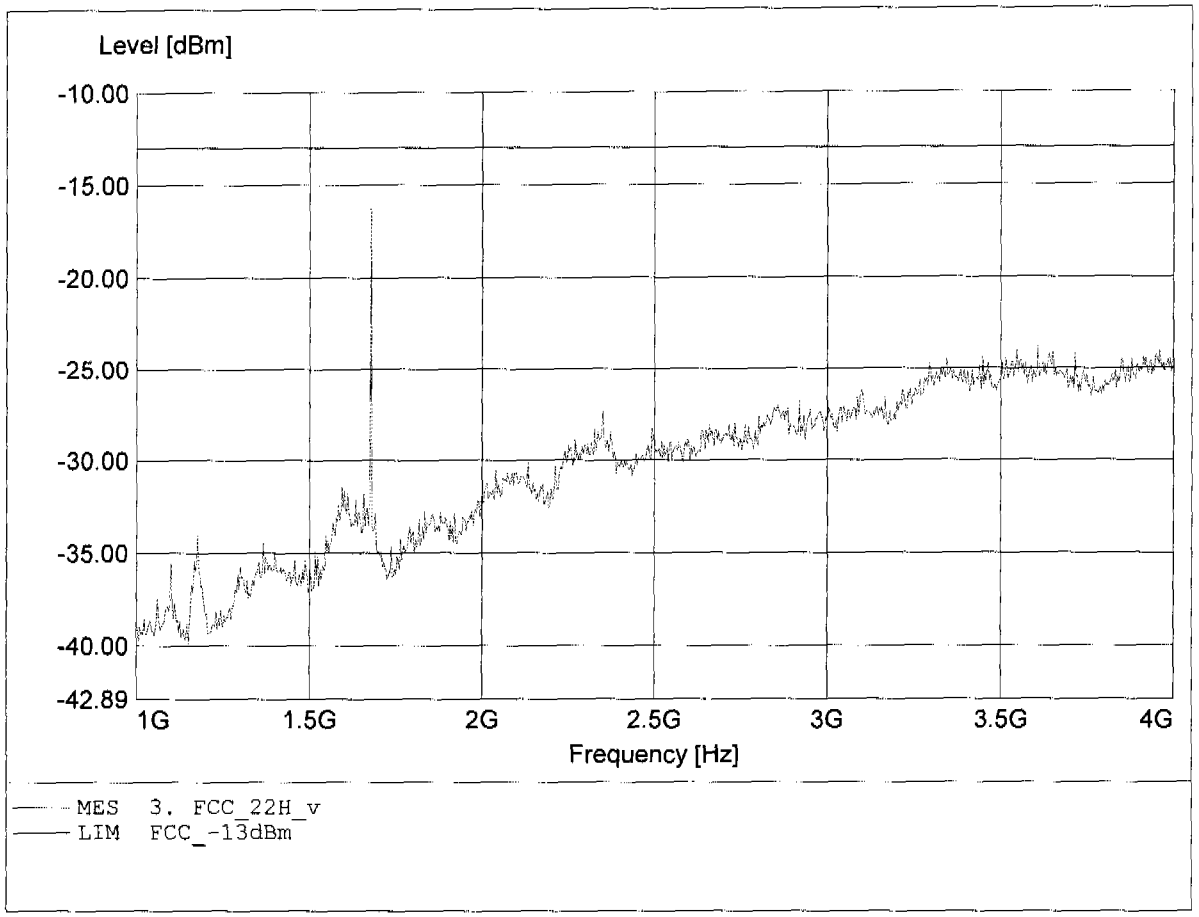
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	188
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL 223+notch
Comment 2:	Freq: 866.281MHz, Pmax: -29.69dBm, RBW: 1MHz



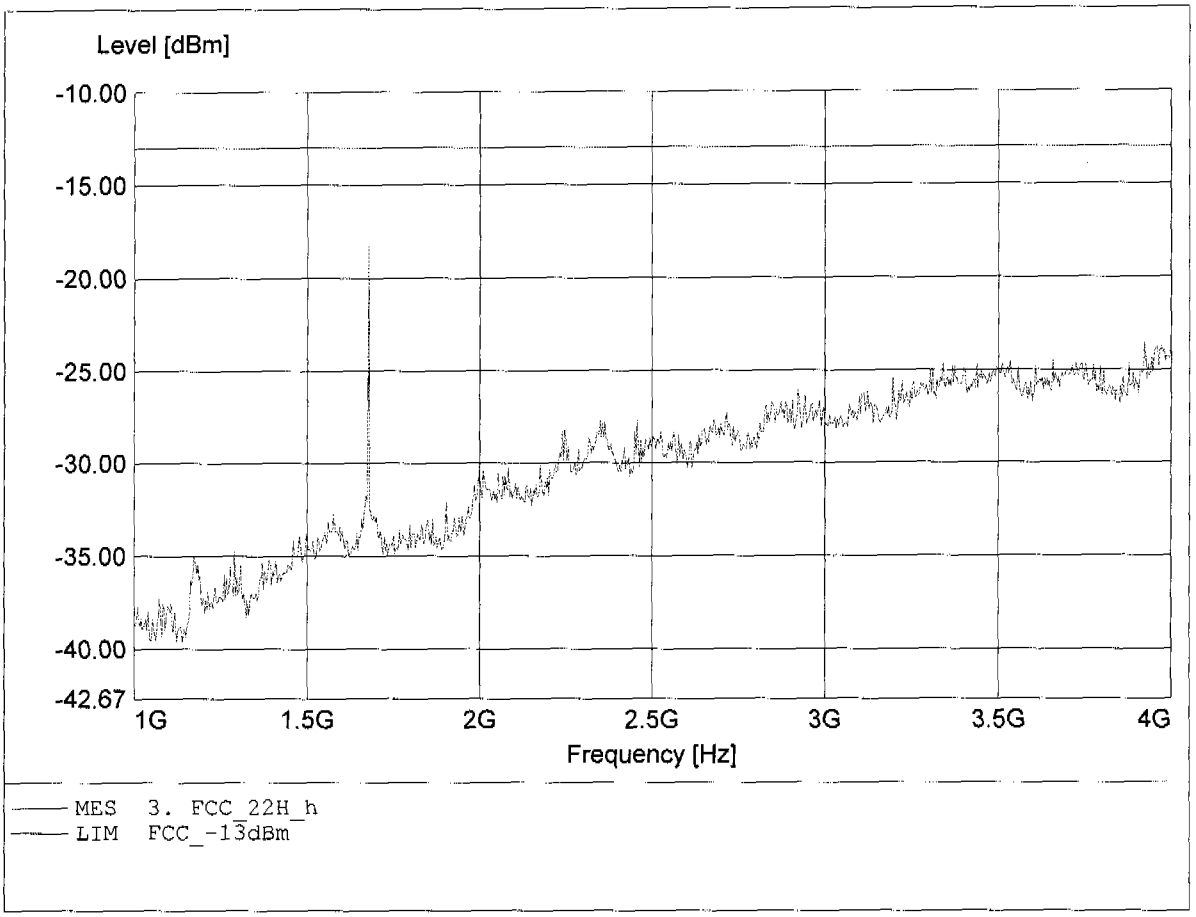
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	188
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL025
Comment 2:	Freq: 1.677GHz, Pmax: -16.30dBm, RBW: 1MHz



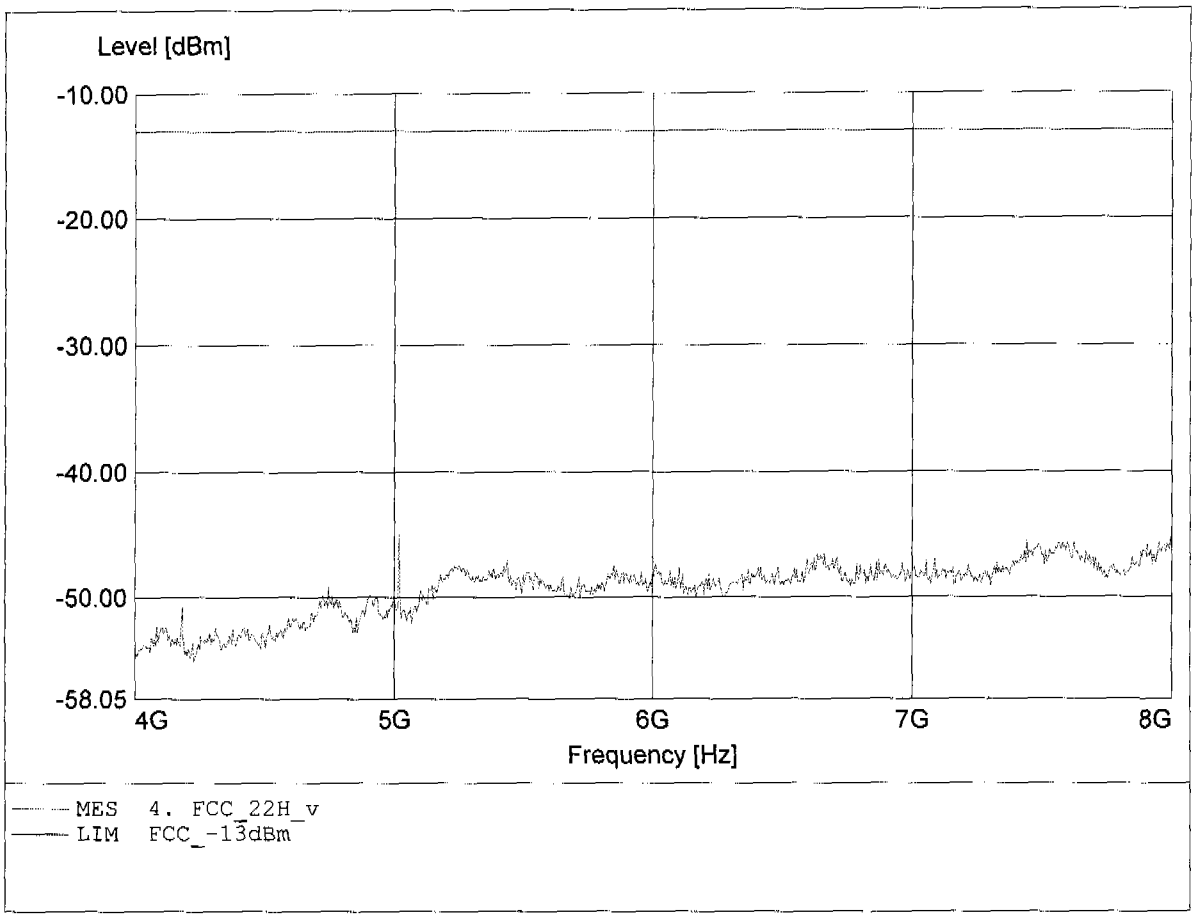
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	188
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL025
Comment 2:	Freq: 1.677GHz, Pmax: -18.27dBm, RBW: 1MHz



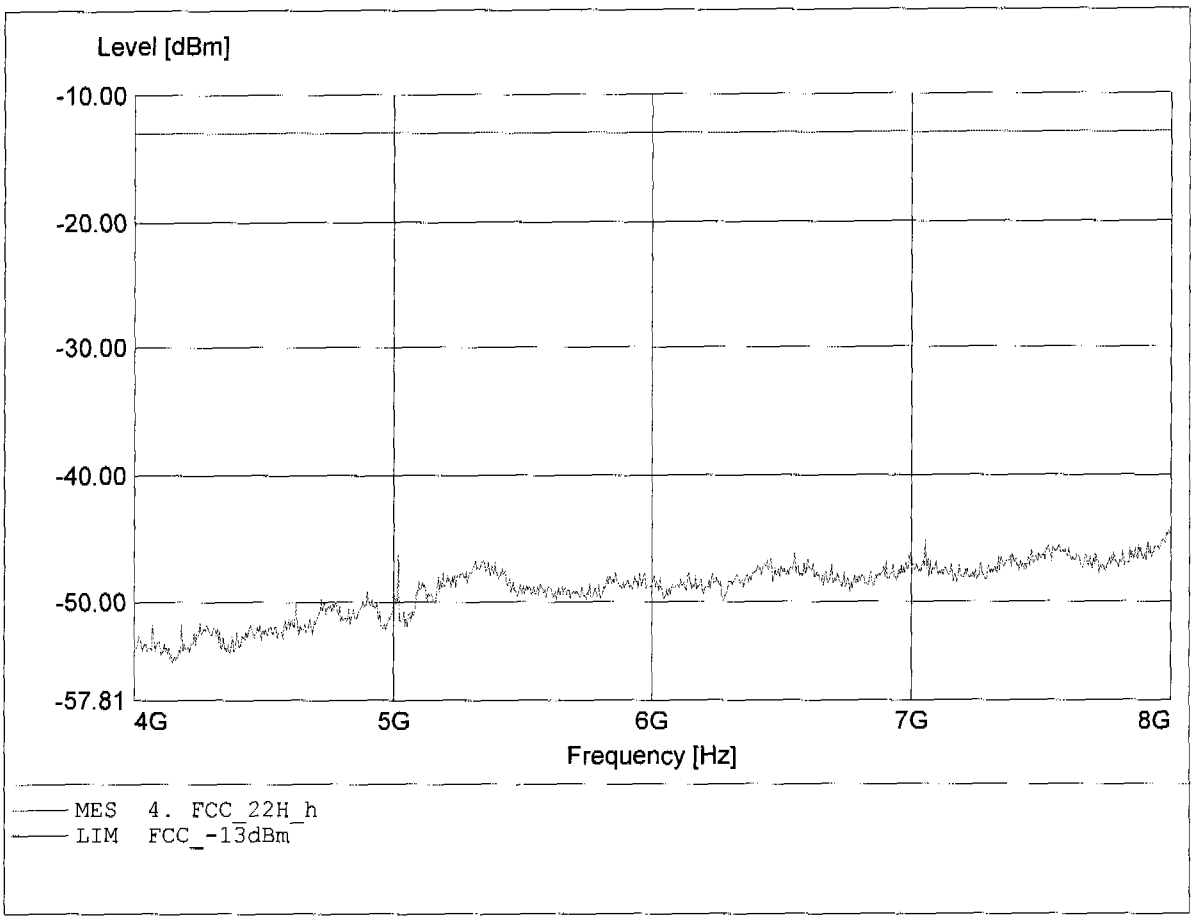
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	188
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 5.018GHz, Pmax: -44.88dBm, RBW: 1MHz



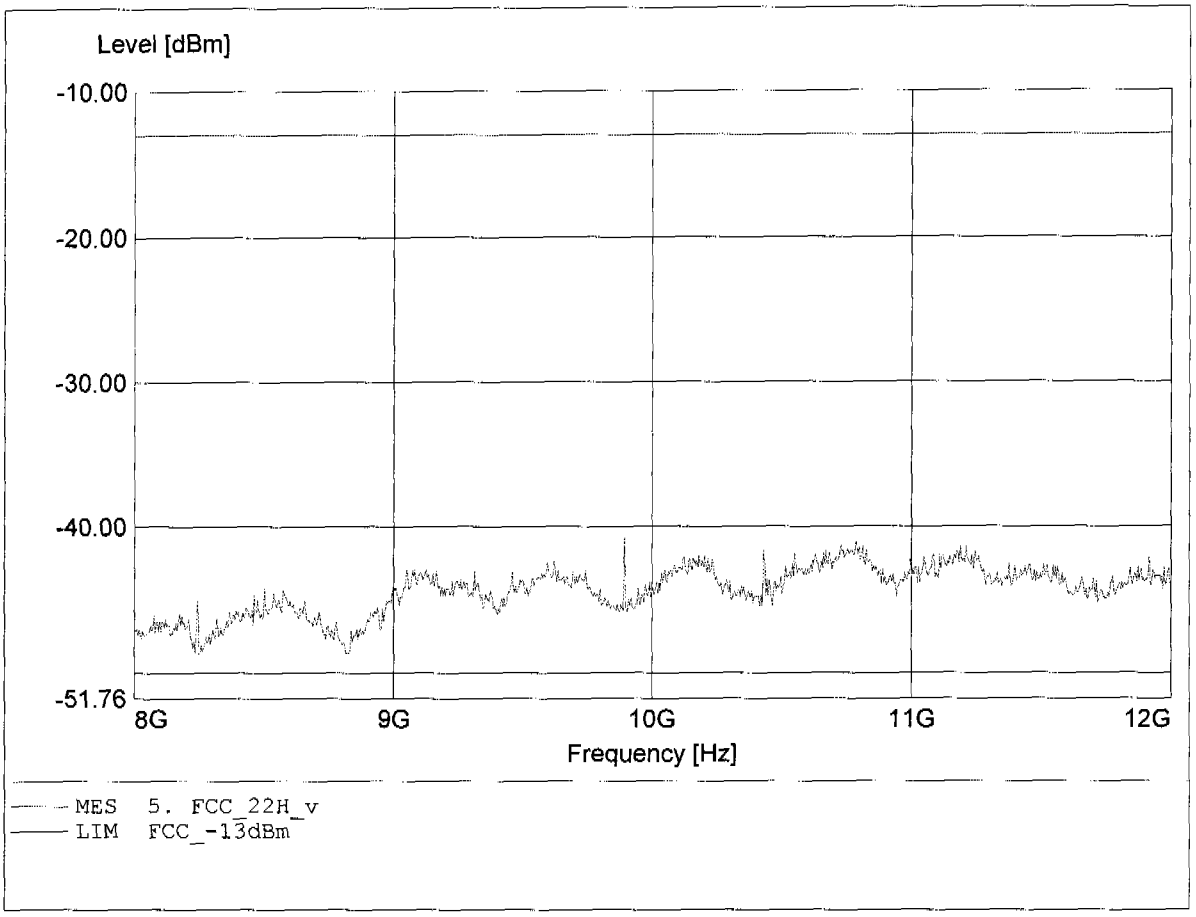
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	188
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 7.991GHz, Pmax: -44.41dBm, RBW: 1MHz



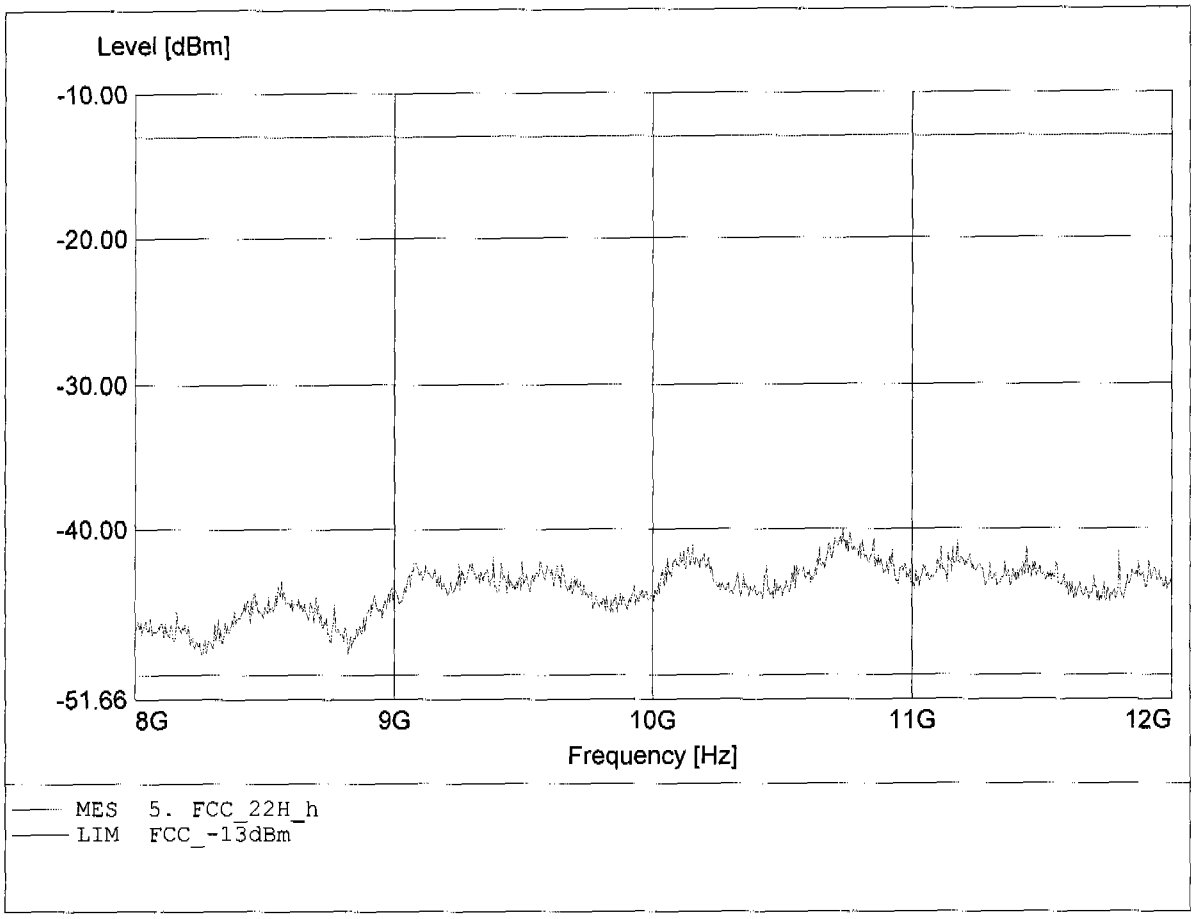
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	188
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 9.893GHz, Pmax: -40.71dBm, RBW: 1MHz



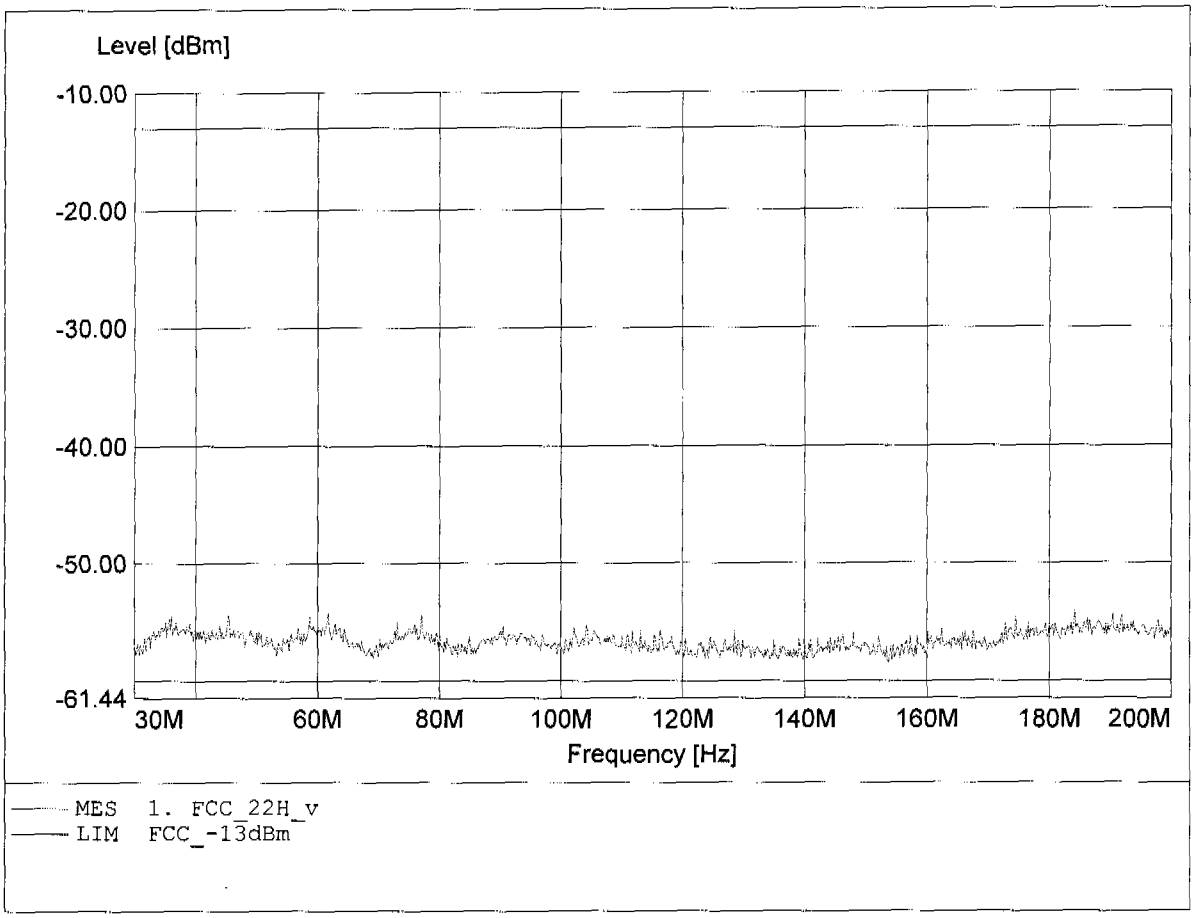
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	188
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 10.733GHz, Pmax: -40.02dBm, RBW: 1MHz



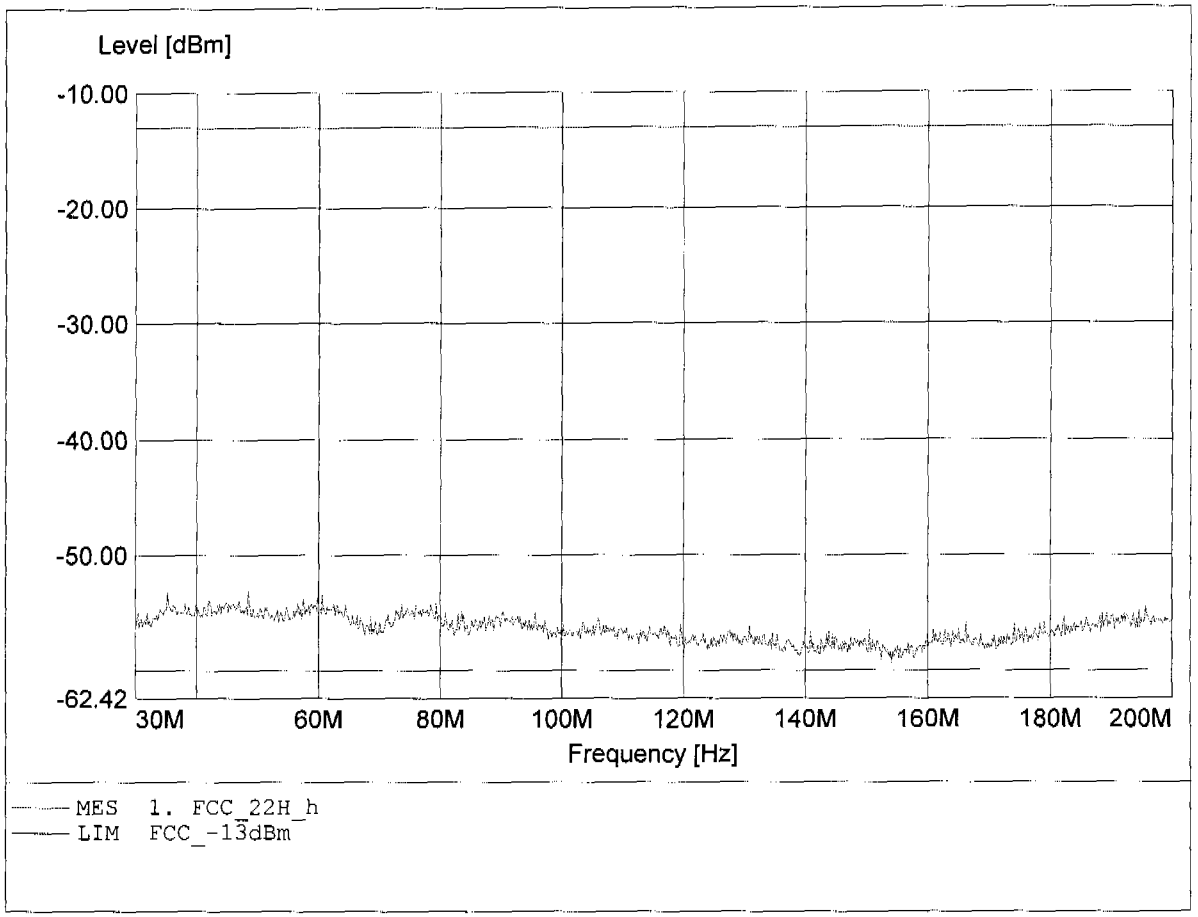
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	251
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HK 116
Comment 2:	Freq: 184.133MHz, Pmax: -54.01dBm, RBW: 1MHz



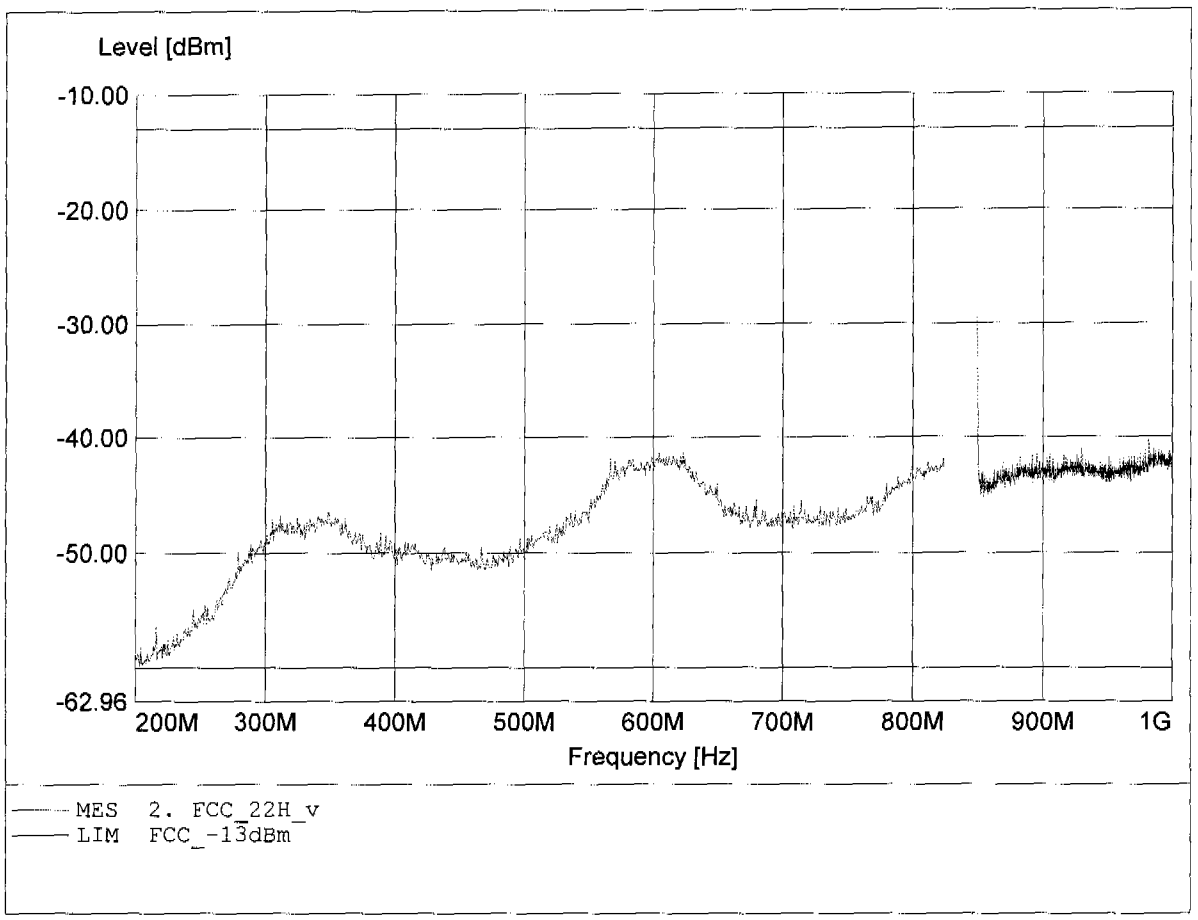
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	251
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HK 116
Comment 2:	Freq: 48.511MHz, Pmax: -52.98dBm, RBW: 1MHz



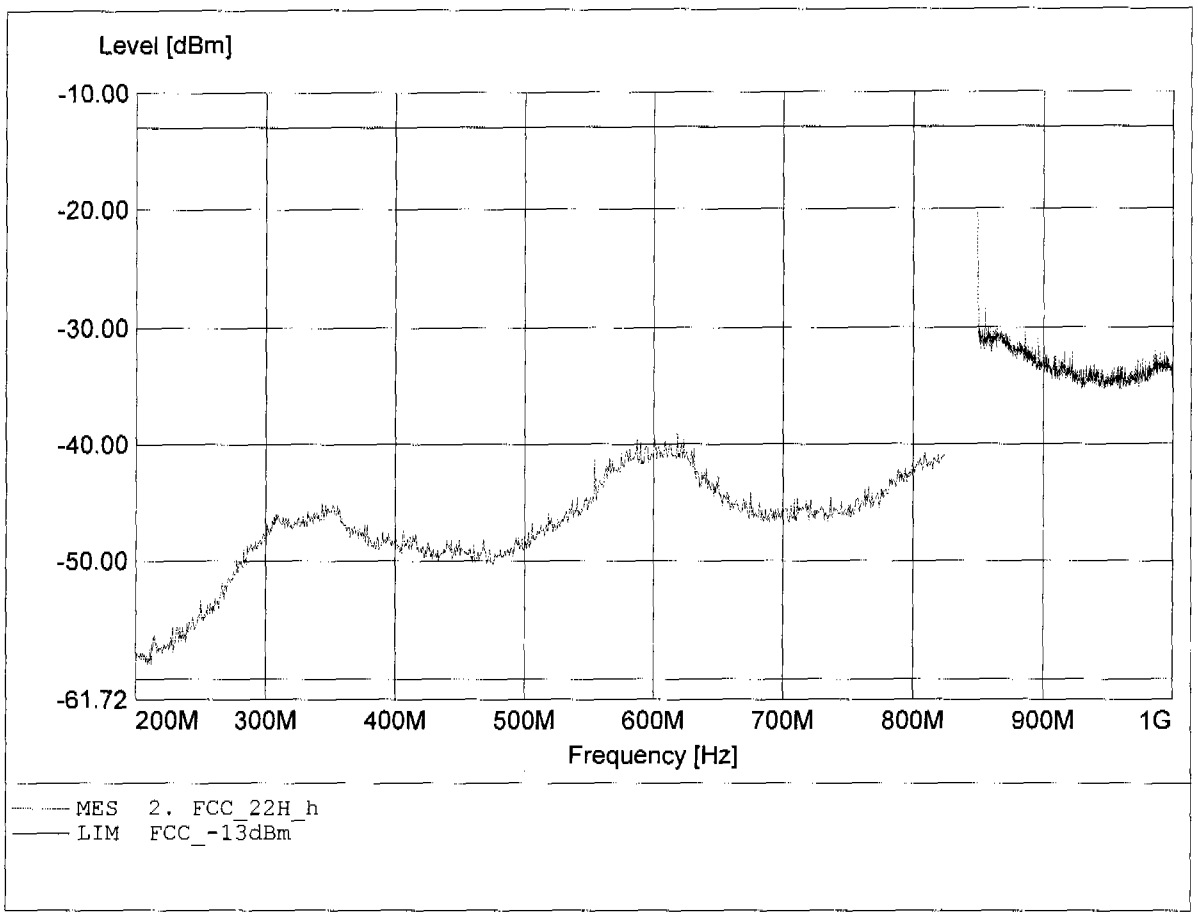
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	251
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL 223+notch
Comment 2:	Freq: 849.000MHz, Pmax: -29.24dBm, RBW: 1MHz



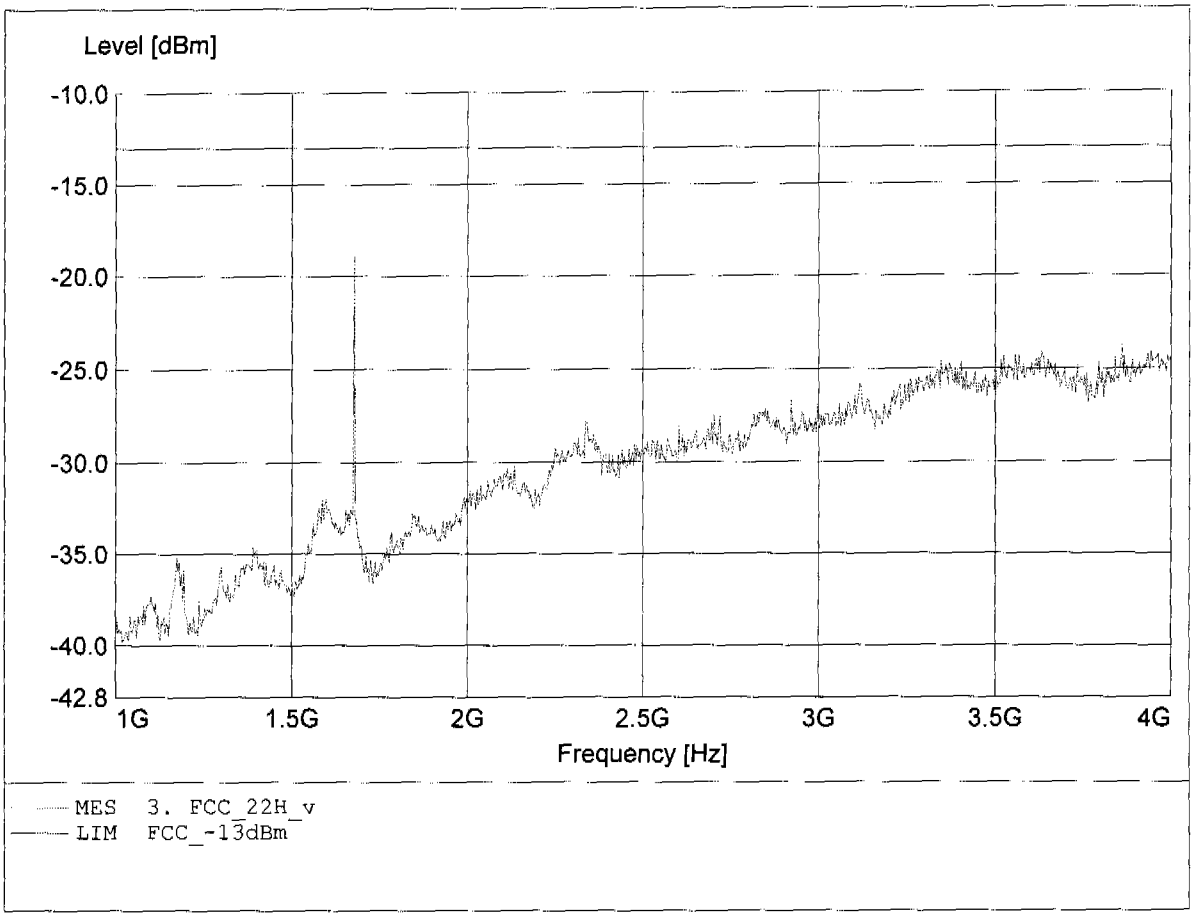
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	251
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL 223+notch
Comment 2:	Freq: 849.000MHz, Pmax: -20.34dBm, RBW: 1MHz



Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

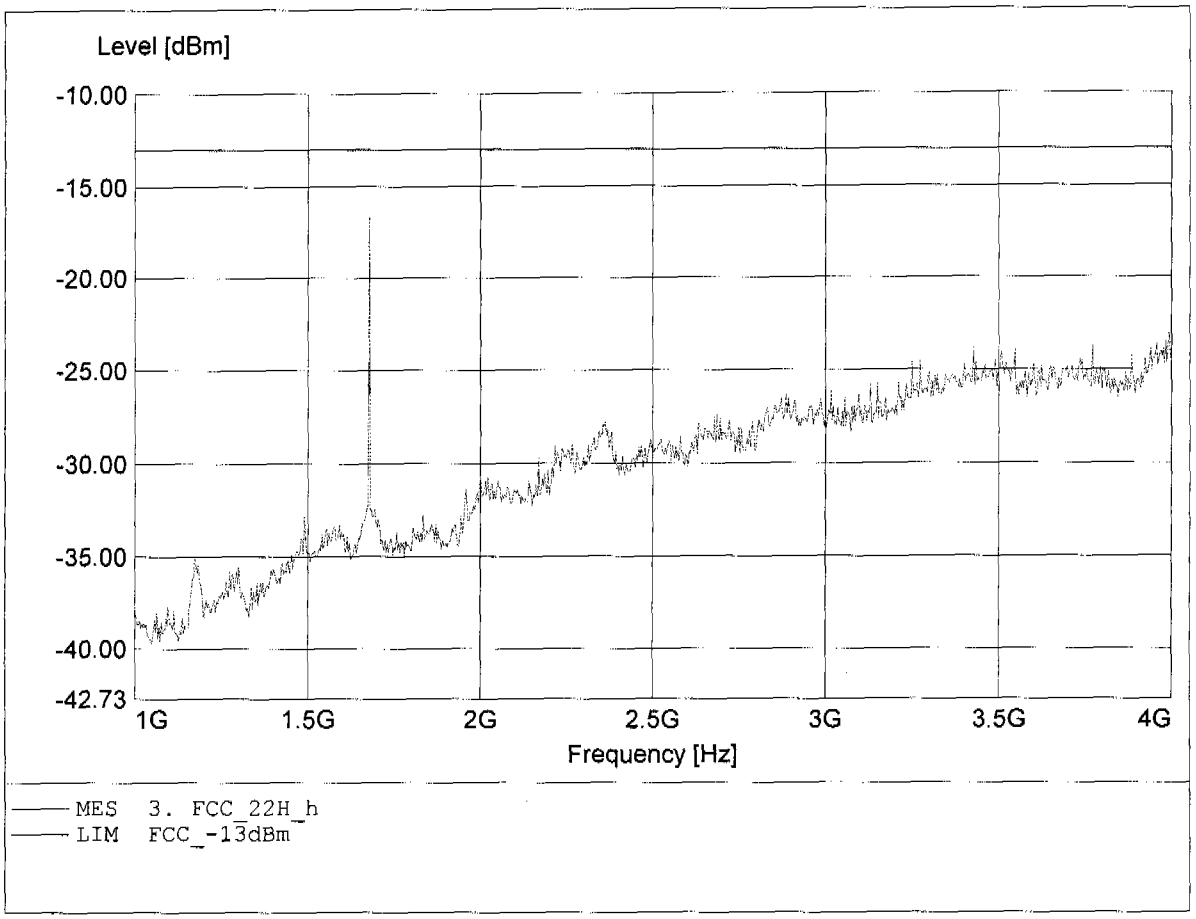
Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	251
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL025
Comment 2:	Freq: 1.677GHz, Pmax: -18.94dBm, RBW: 1MHz



Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

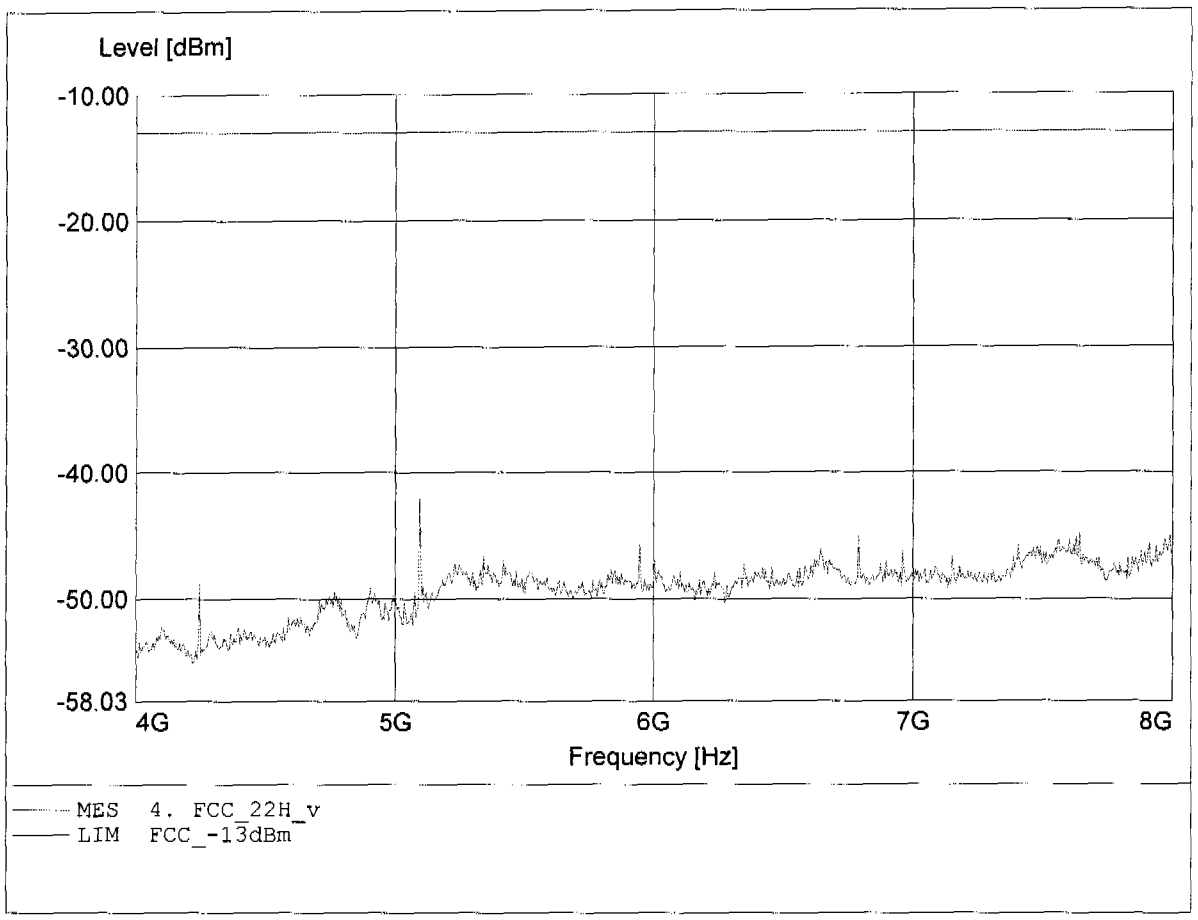
Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	251
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL025
Comment 2:	Freq: 1.677GHz, Pmax: -16.59dBm, RBW: 1MHz

.



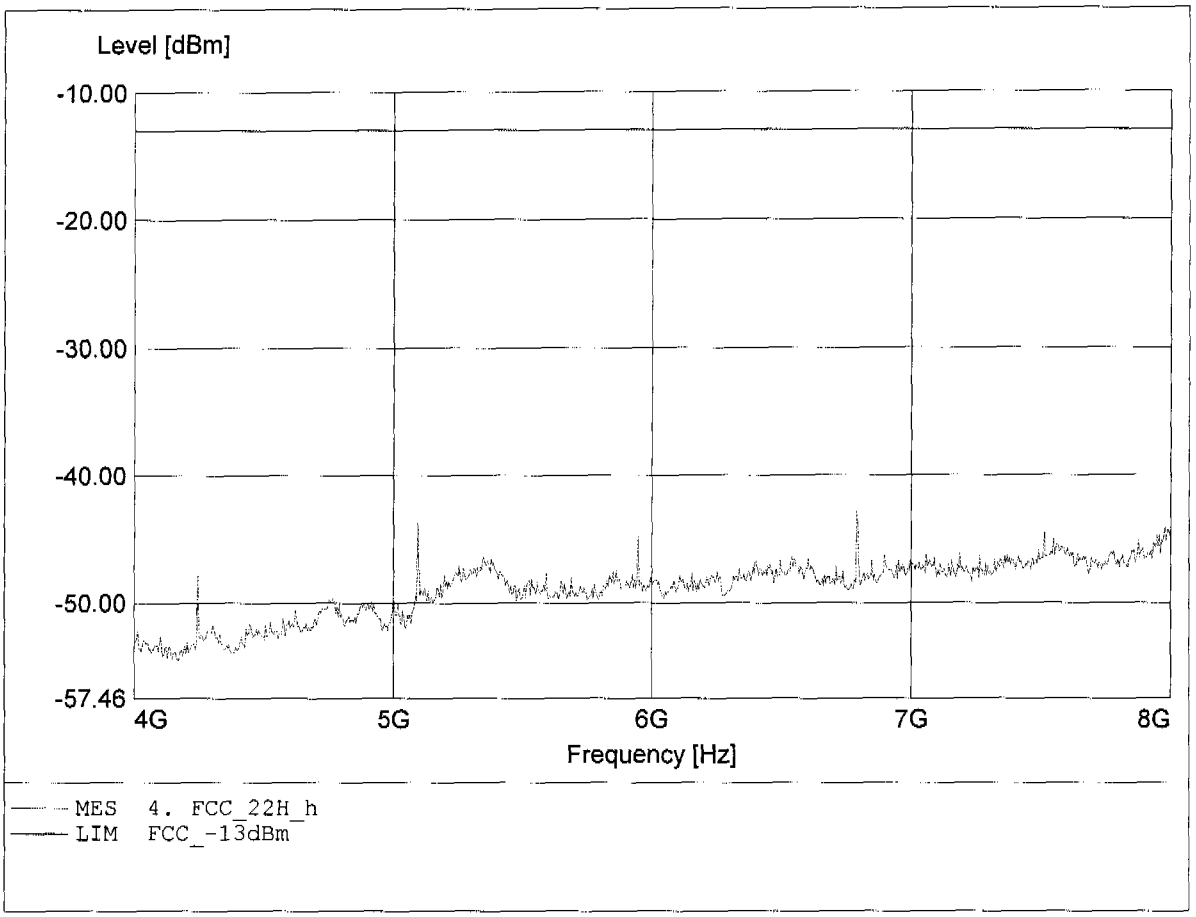
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	251
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 5.093GHz, Pmax: -42.00dBm, RBW: 1MHz



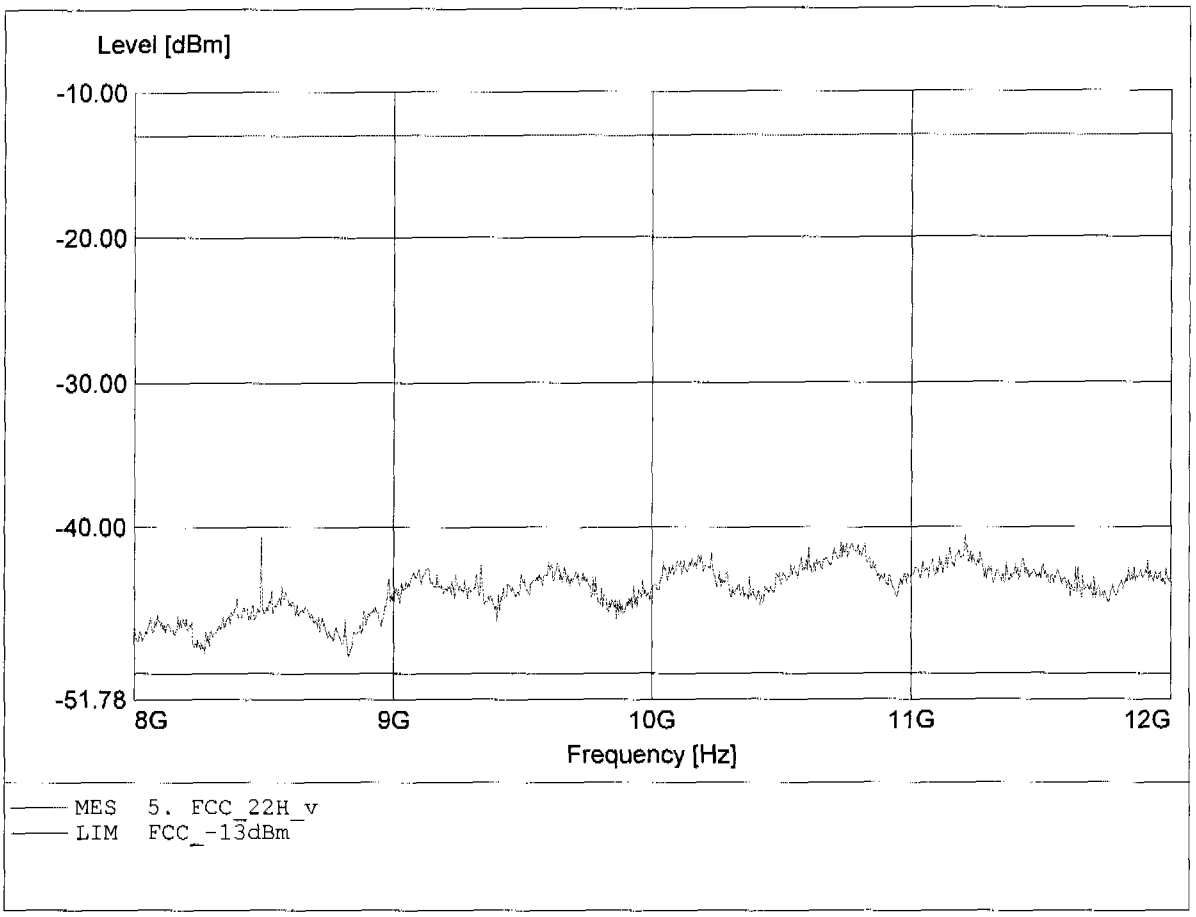
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	251
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 6.791GHz, Pmax: -42.83dBm, RBW: 1MHz



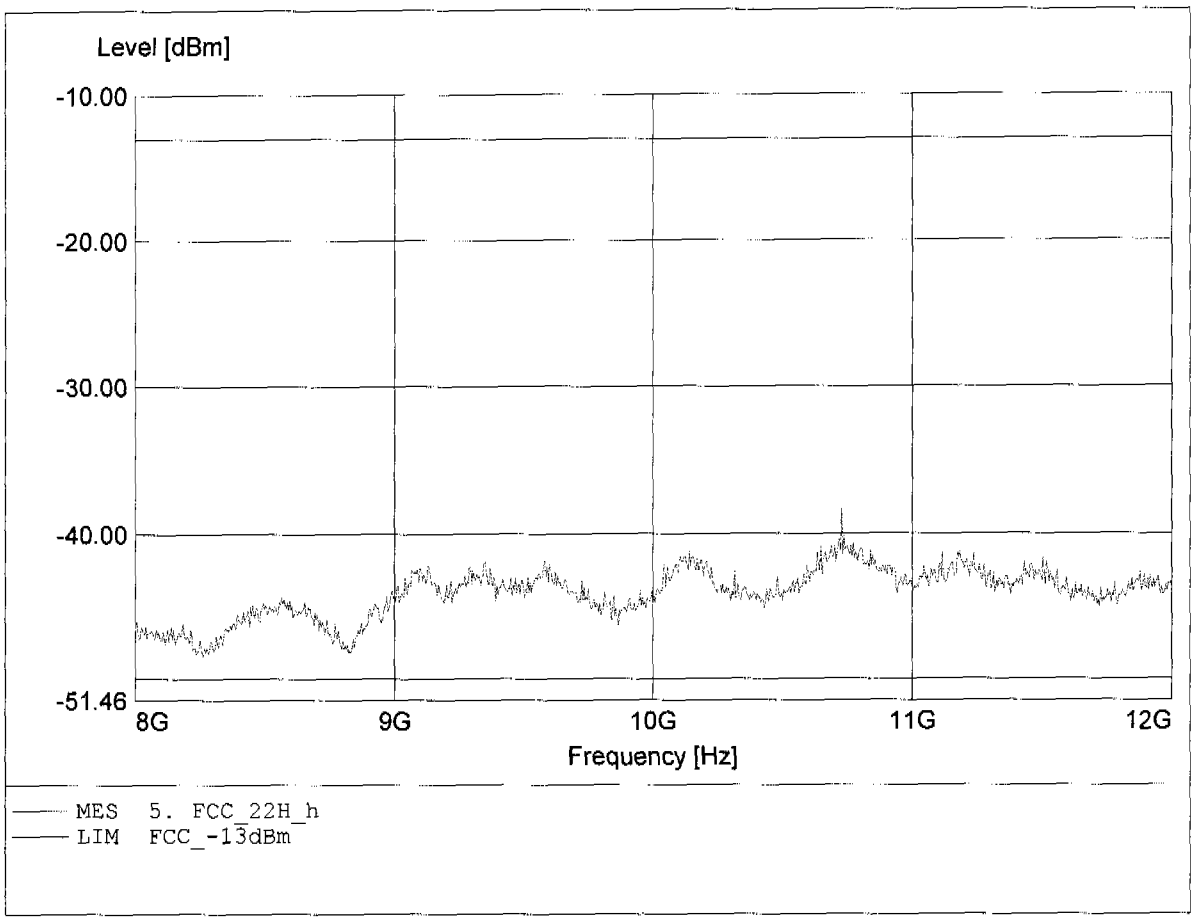
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

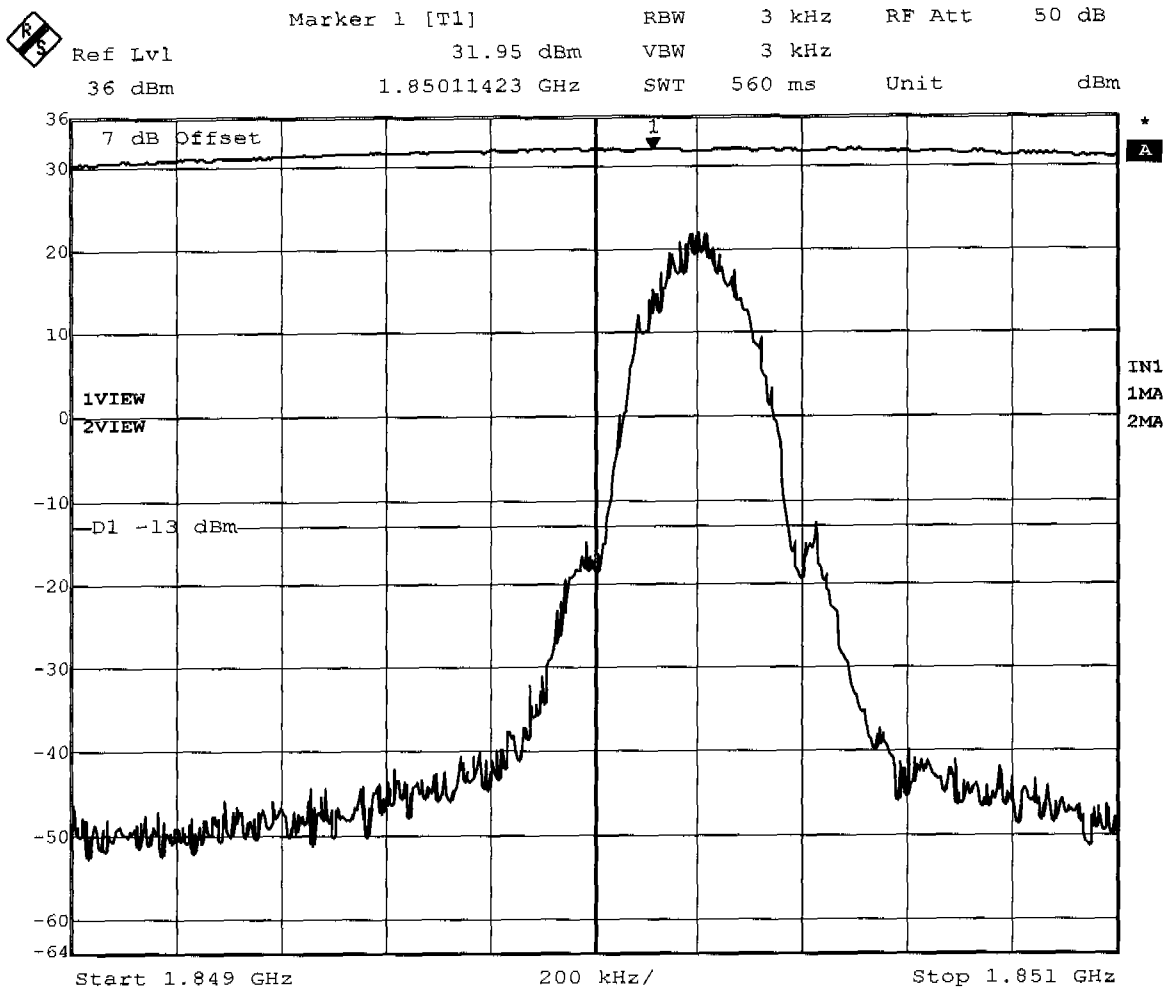
Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	251
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 11.204GHz, Pmax: -40.50dBm, RBW: 1MHz



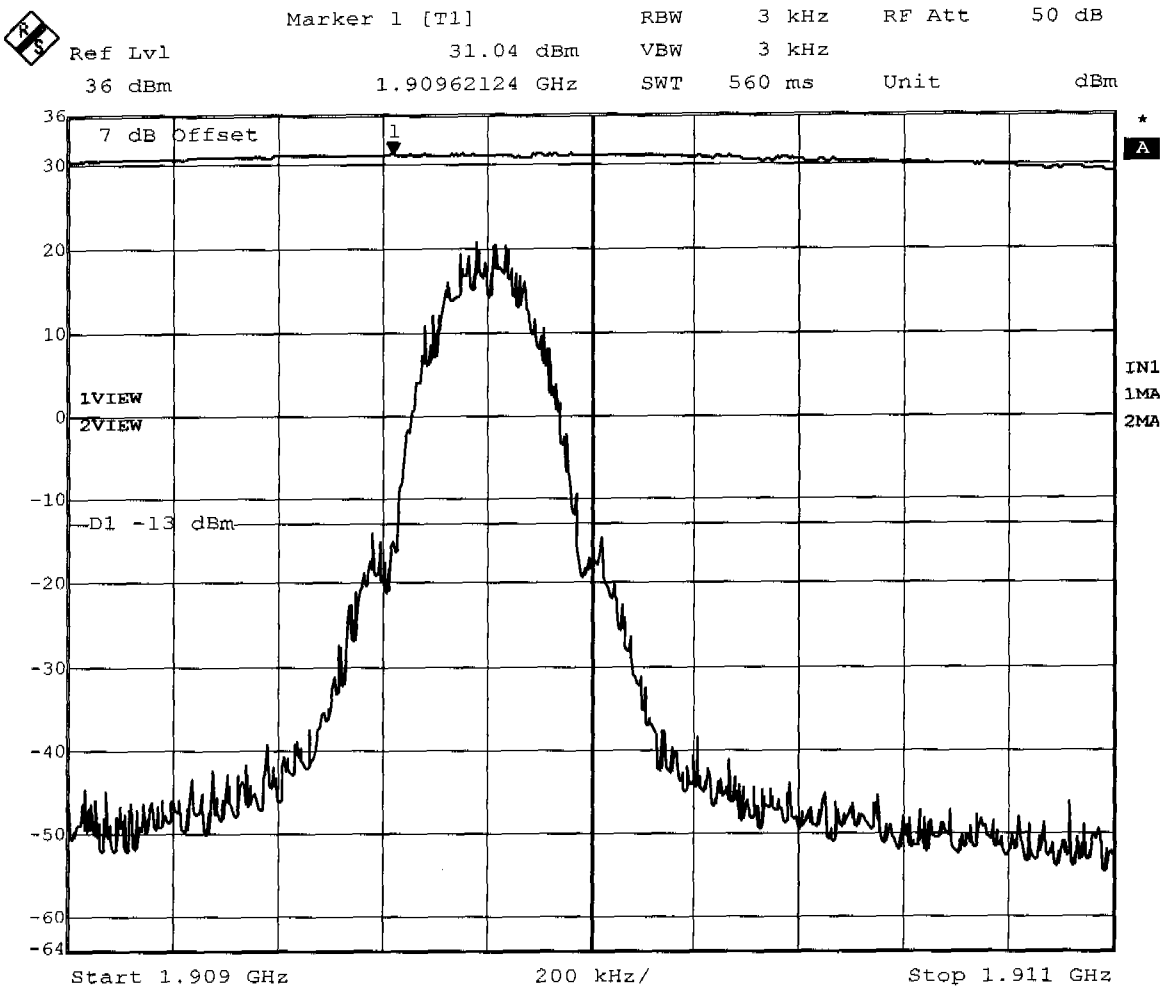
Radiated Emissions Tx
FCC RULES PART 22 SUBPART H

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	251
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §22.917
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 10.729GHz, Pmax: -38.31dBm, RBW: 1MHz

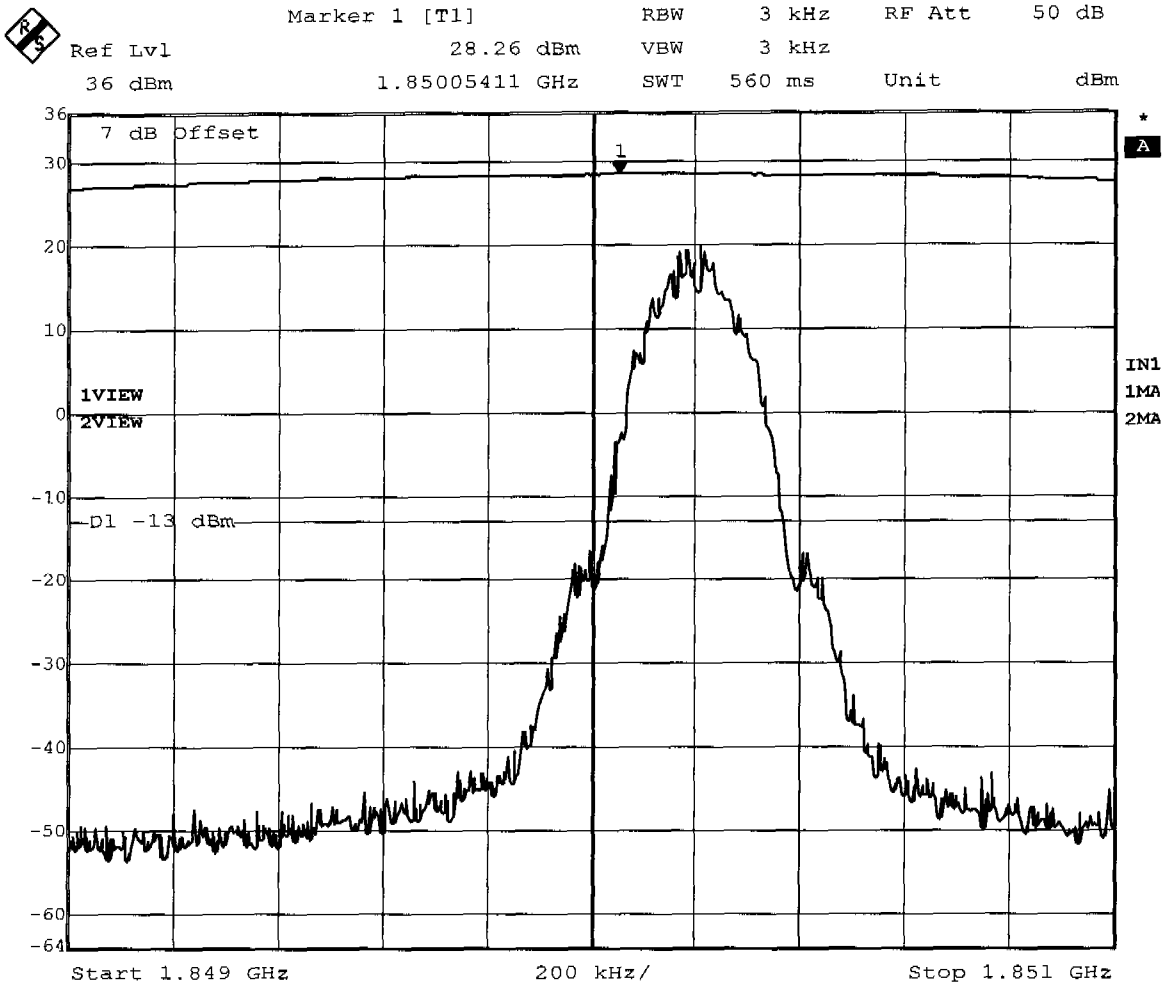




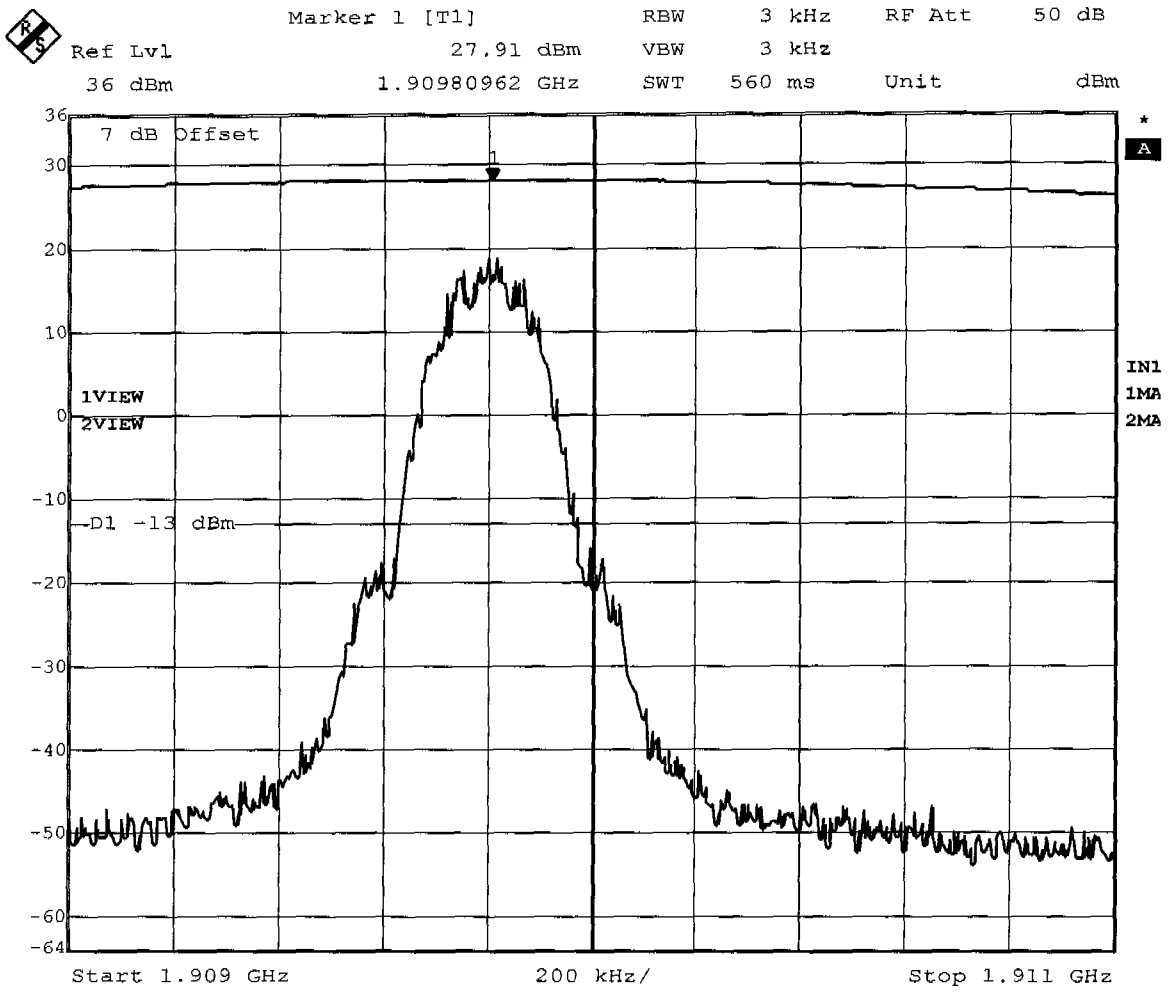
Title: Lower Band Edge
Comment A: MC3000NA
Date: 30.DEC.2003 12:43:34



Title: Higher Band Edge
Comment A: MC3000NA
Date: 30.DEC.2003 12:42:22



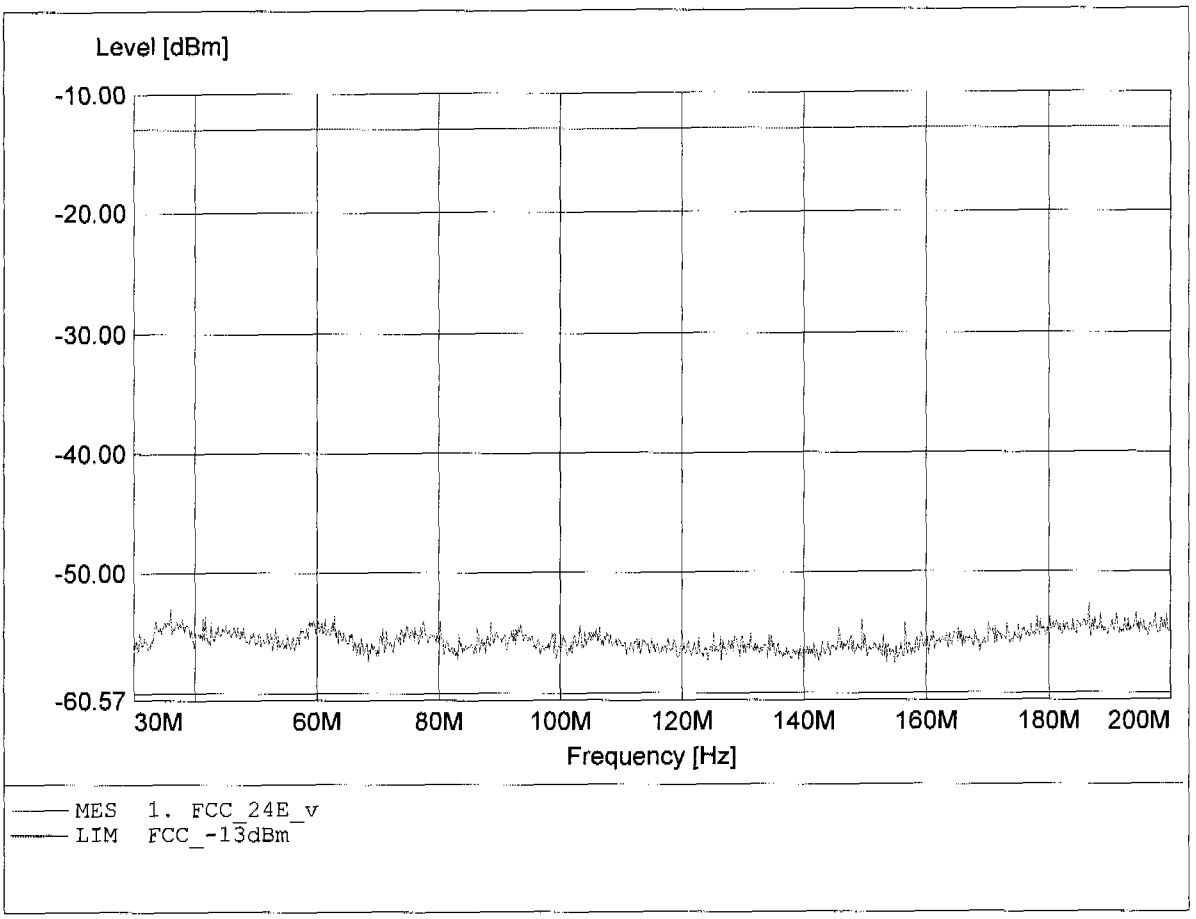
Title: Lower Band Edge
Comment A: siemens cingular
Date: 30.DEC.2003 11:23:28



Title: Higher Band Edge
Comment A: siemens cingular
Date: 30.DEC.2003 11:25:02

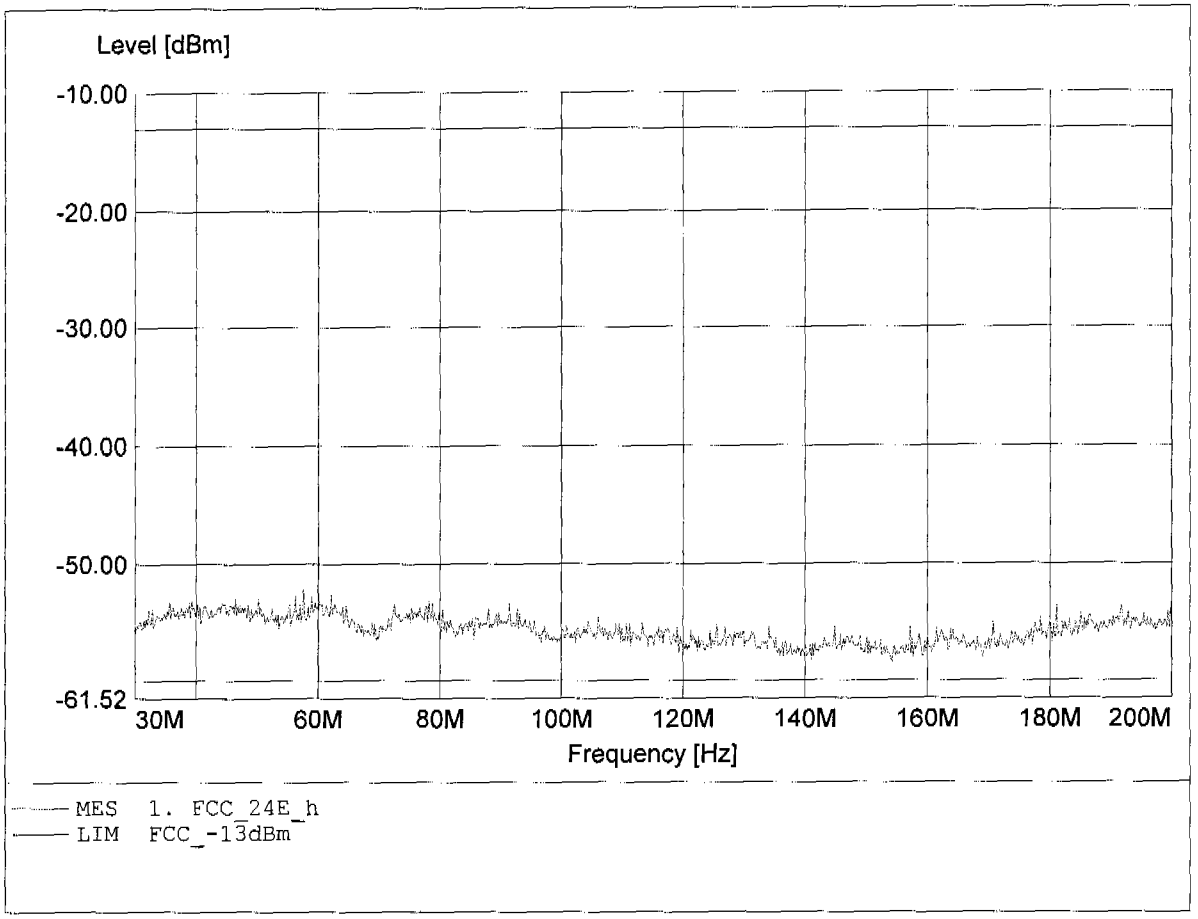
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	512
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HK 116
Comment 2:	Freq: 186.589MHz, Pmax: -52.64dBm, RBW: 1MHz



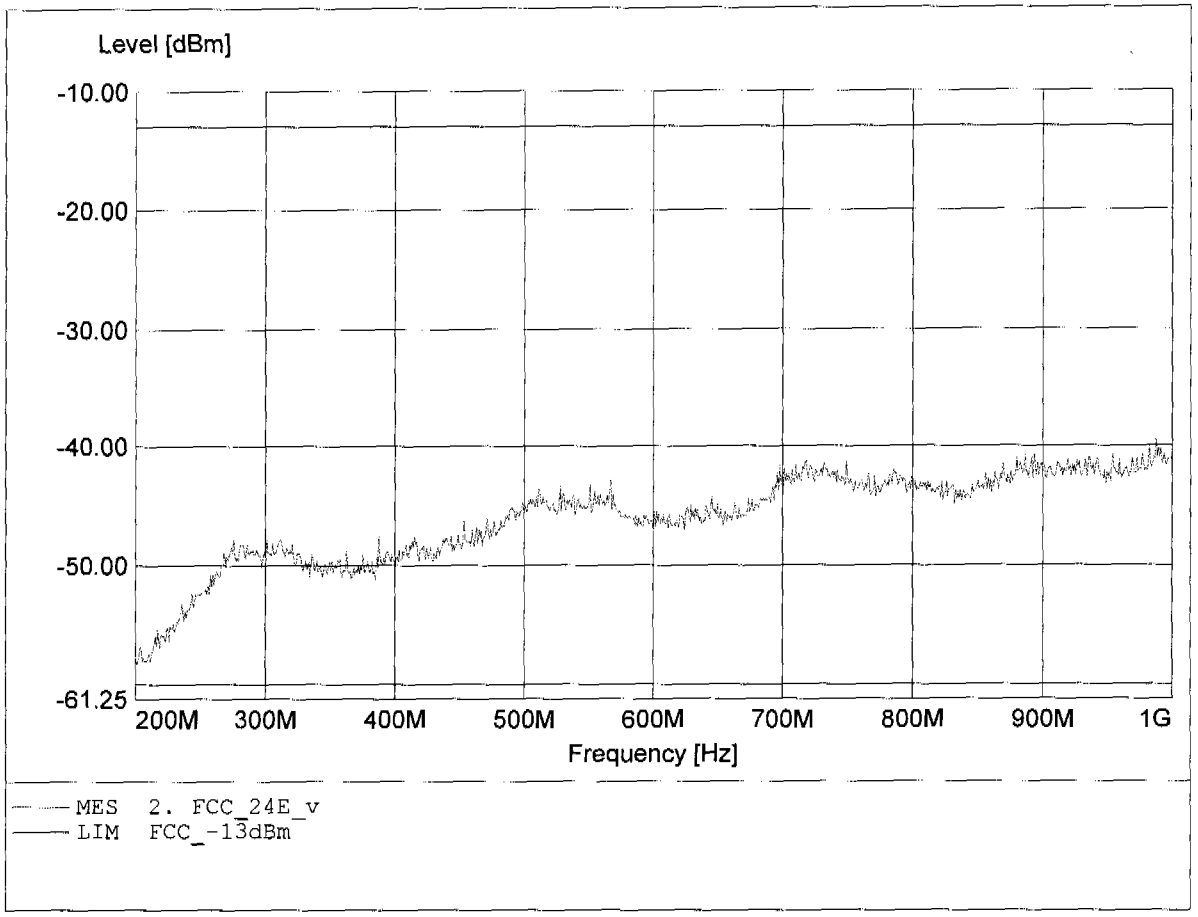
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	512
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HK 116
Comment 2:	Freq: 57.578MHz, Pmax: -52.01dBm, RBW: 1MHz



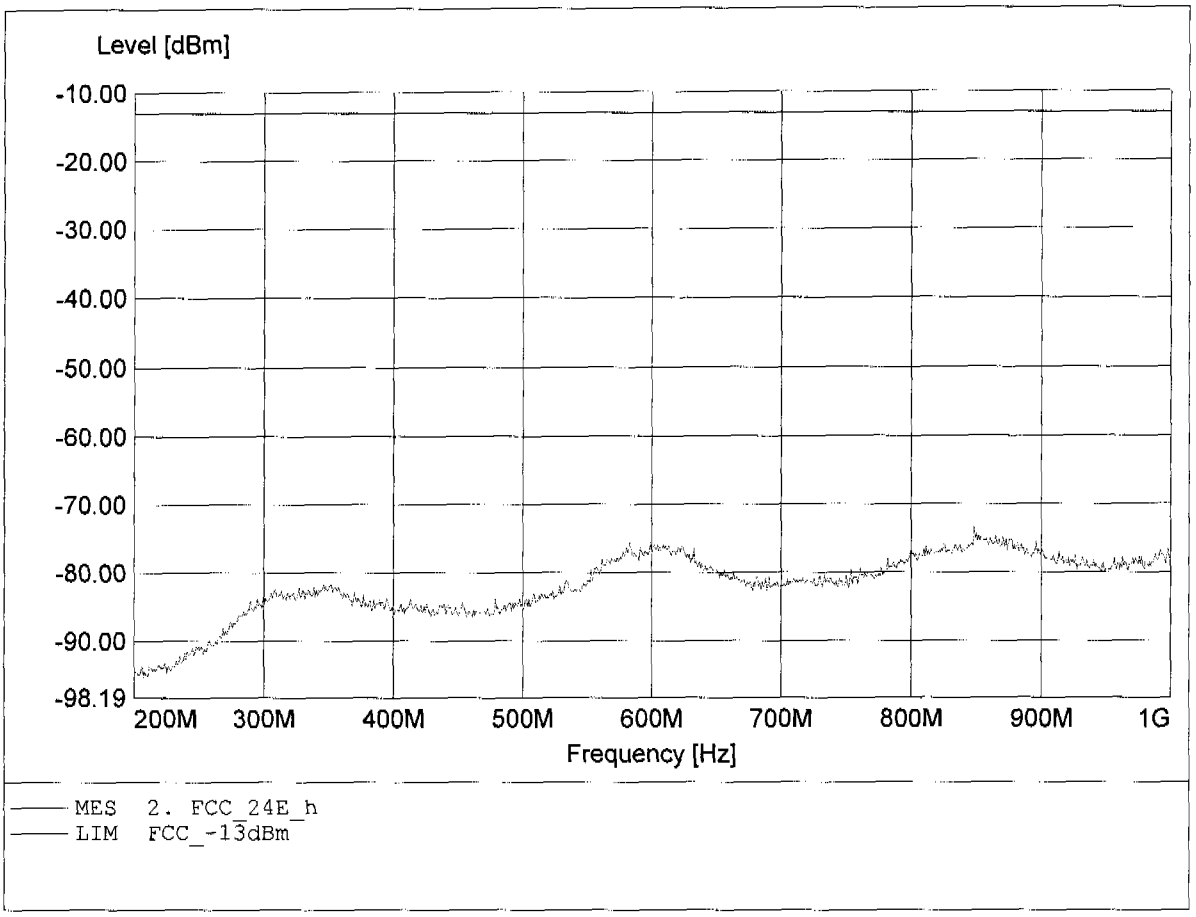
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	512
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL 223
Comment 2:	Freq: 987.556MHz, Pmax: -39.38dBm, RBW: 1MHz



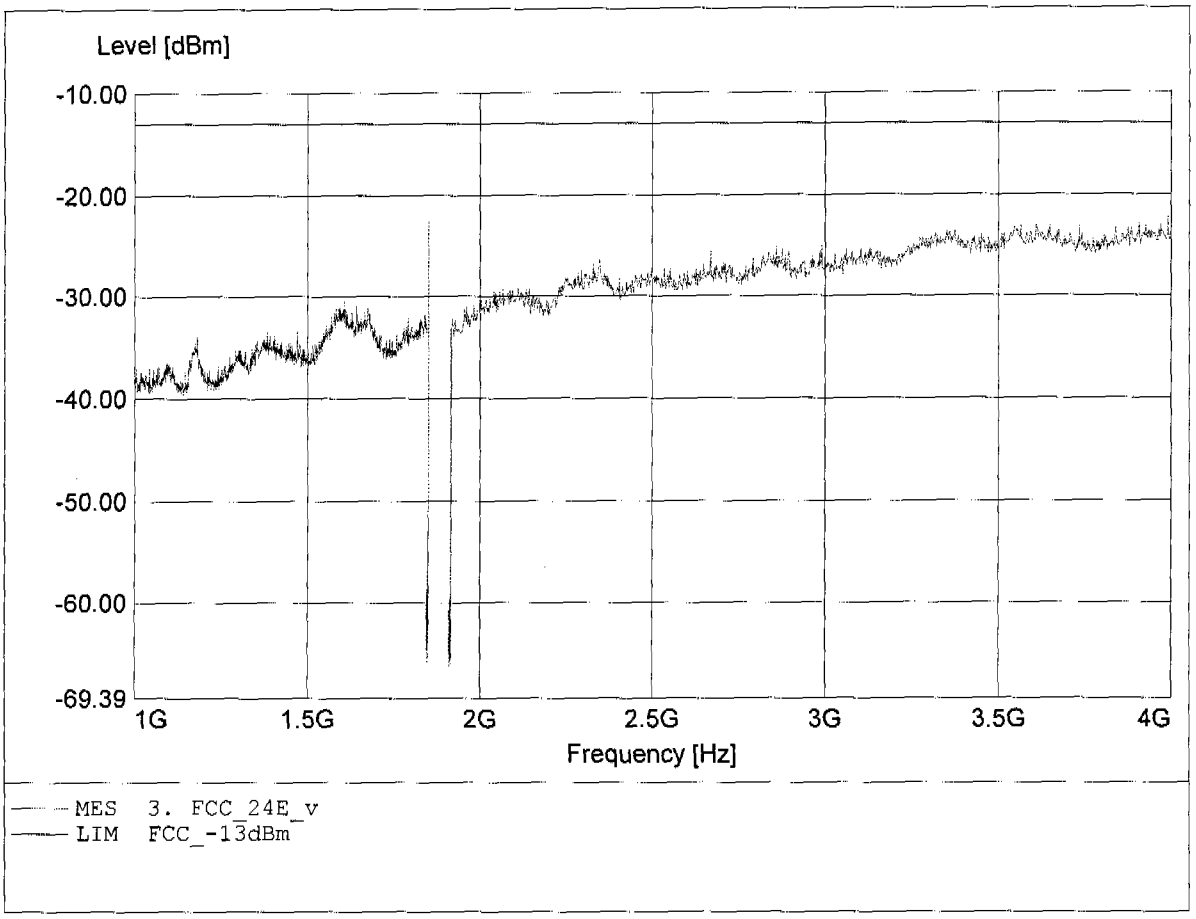
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	512
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL 223
Comment 2:	Freq: 848.000MHz, Pmax: -73.31dBm, RBW: 1MHz



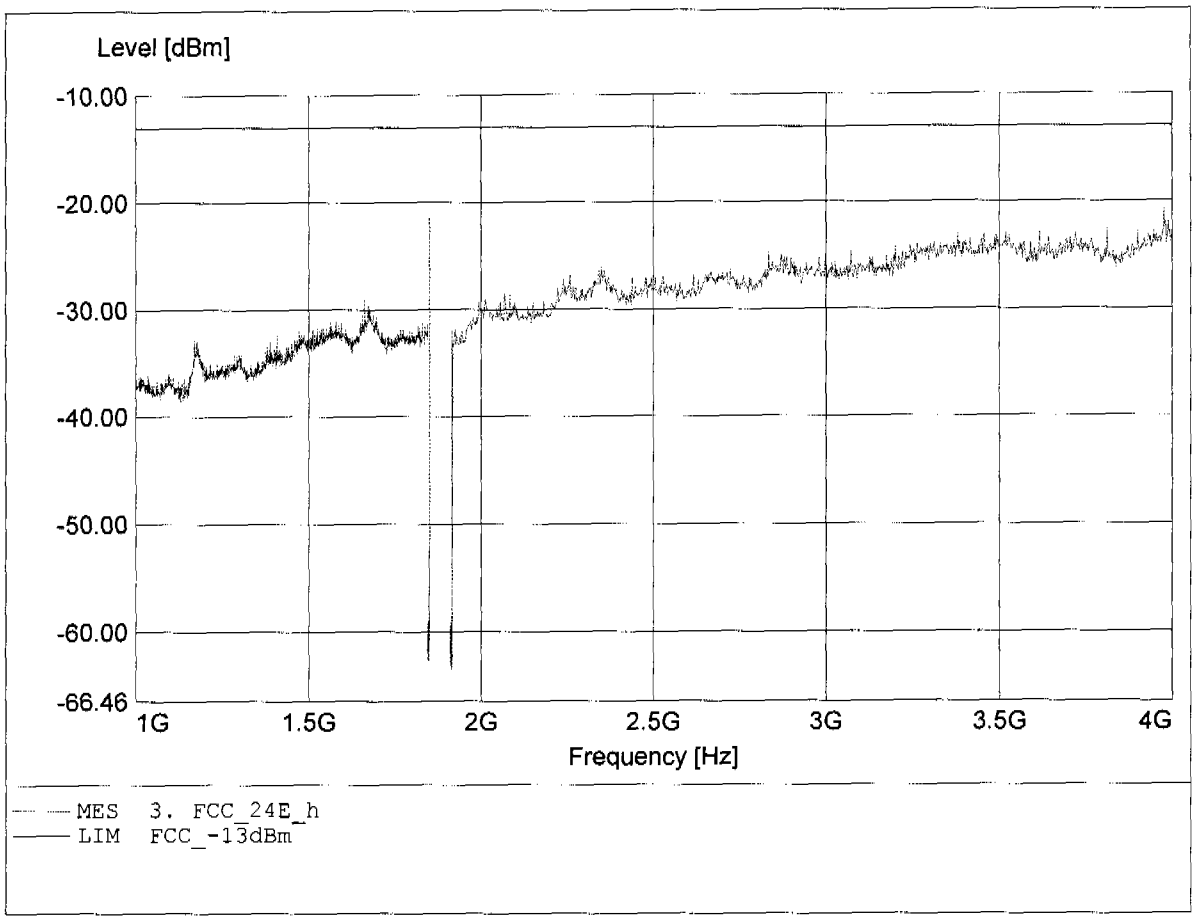
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	512
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025
Comment 2:	Freq: 3.991GHz, Pmax: -22.24dBm, RBW: 1MHz/3kHz



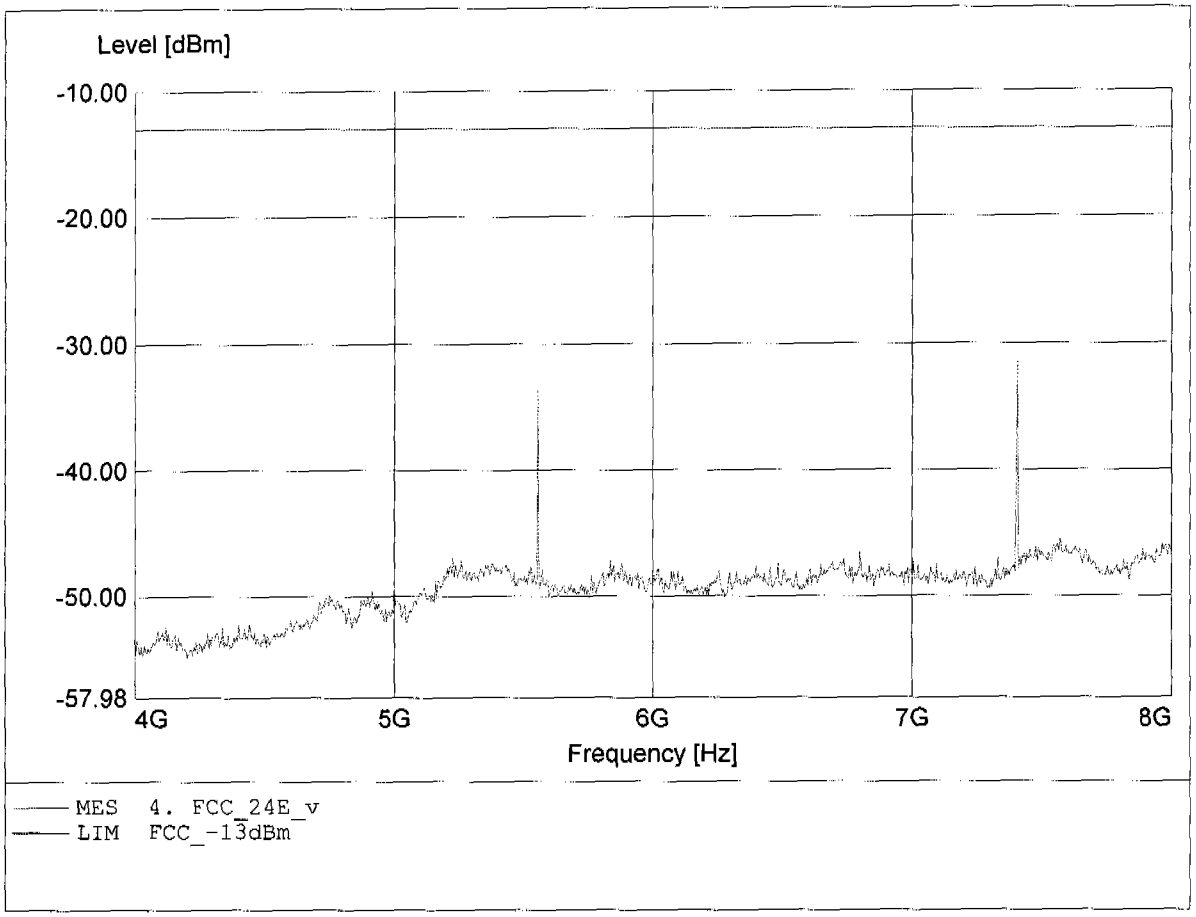
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	512
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025
Comment 2:	Freq: 3.977GHz, Pmax: -20.82dBm, RBW: 1MHz/3kHz



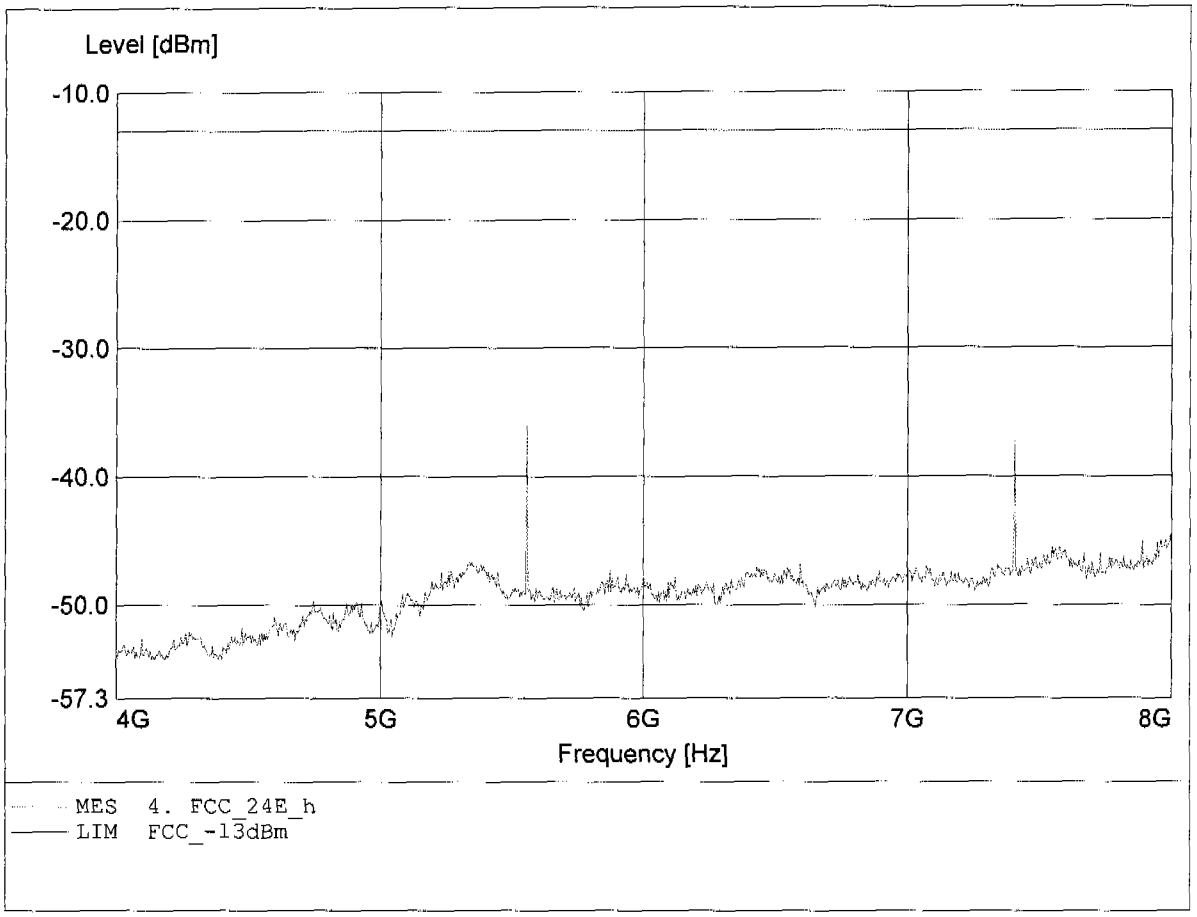
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	512
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 7.404GHz, Pmax: -31.39dBm, RBW: 1MHz



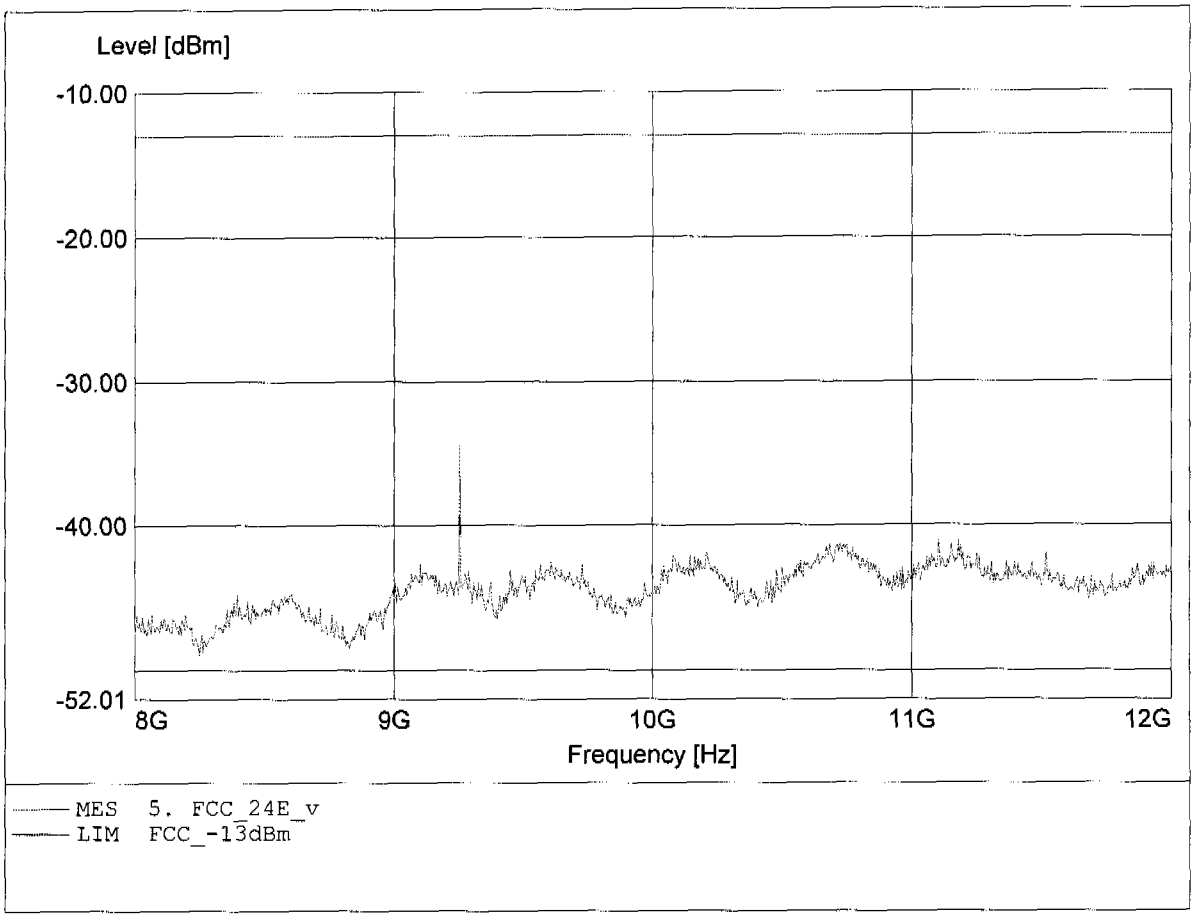
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	512
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 5.556GHz, Pmax: -36.06dBm, RBW: 1MHz



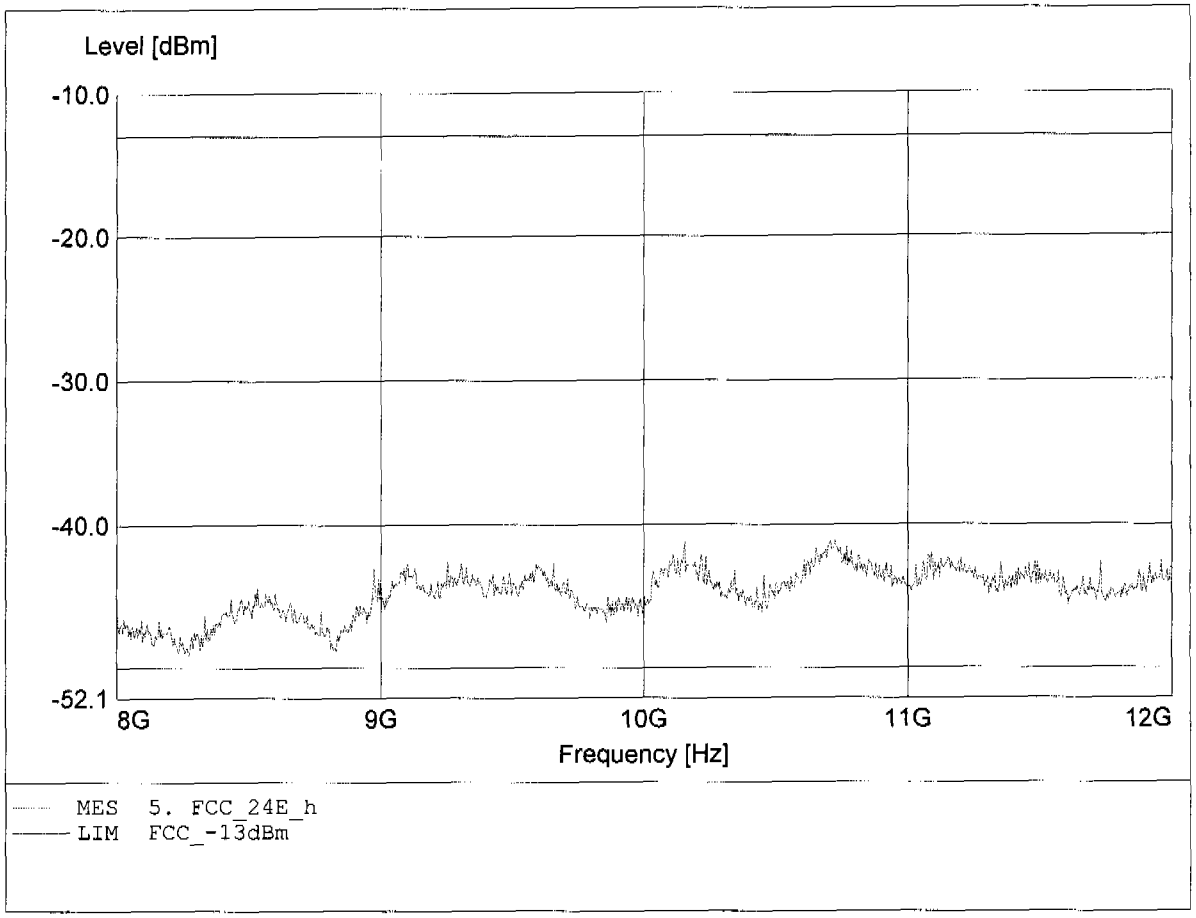
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	512
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 9.253GHz, Pmax: -34.43dBm, RBW: 1MHz



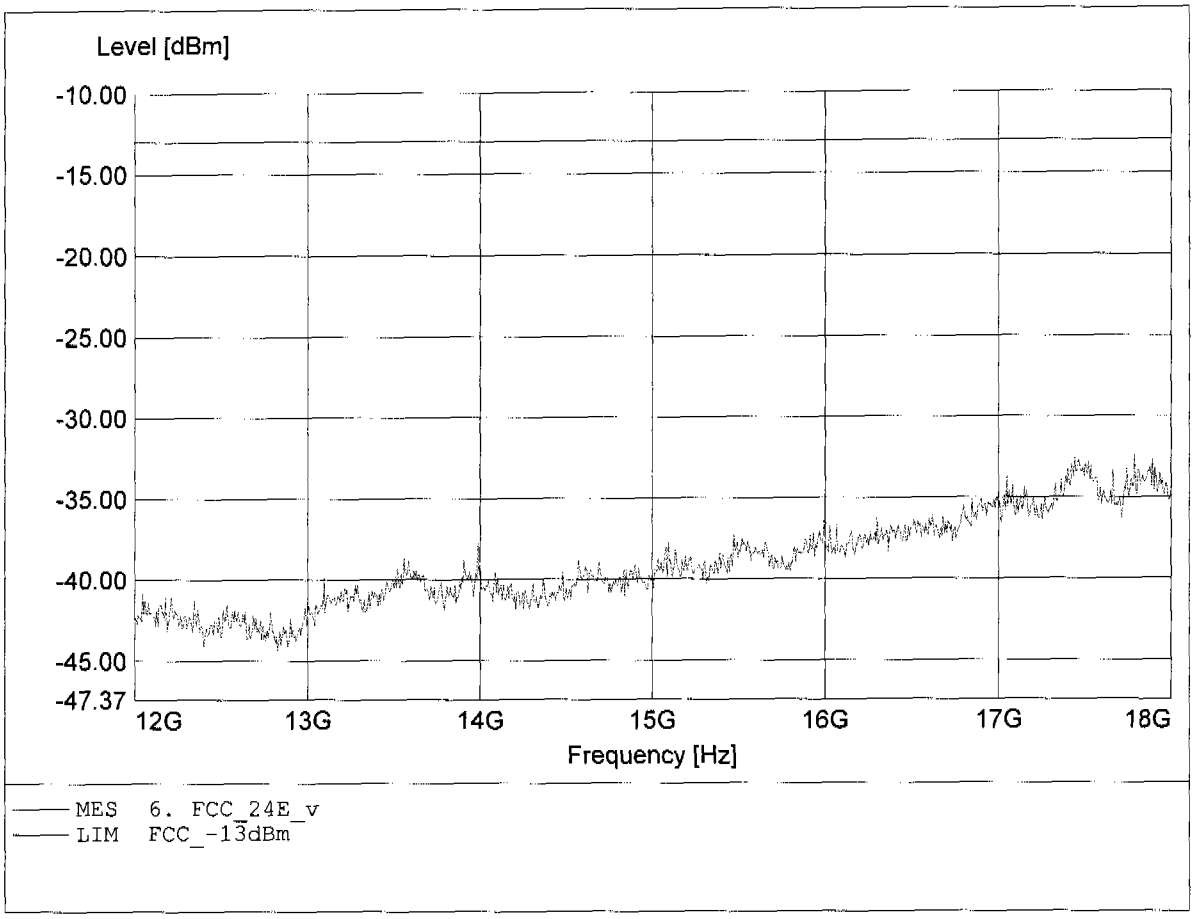
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	512
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 10.707GHz, Pmax: -41.09dBm, RBW: 1MHz



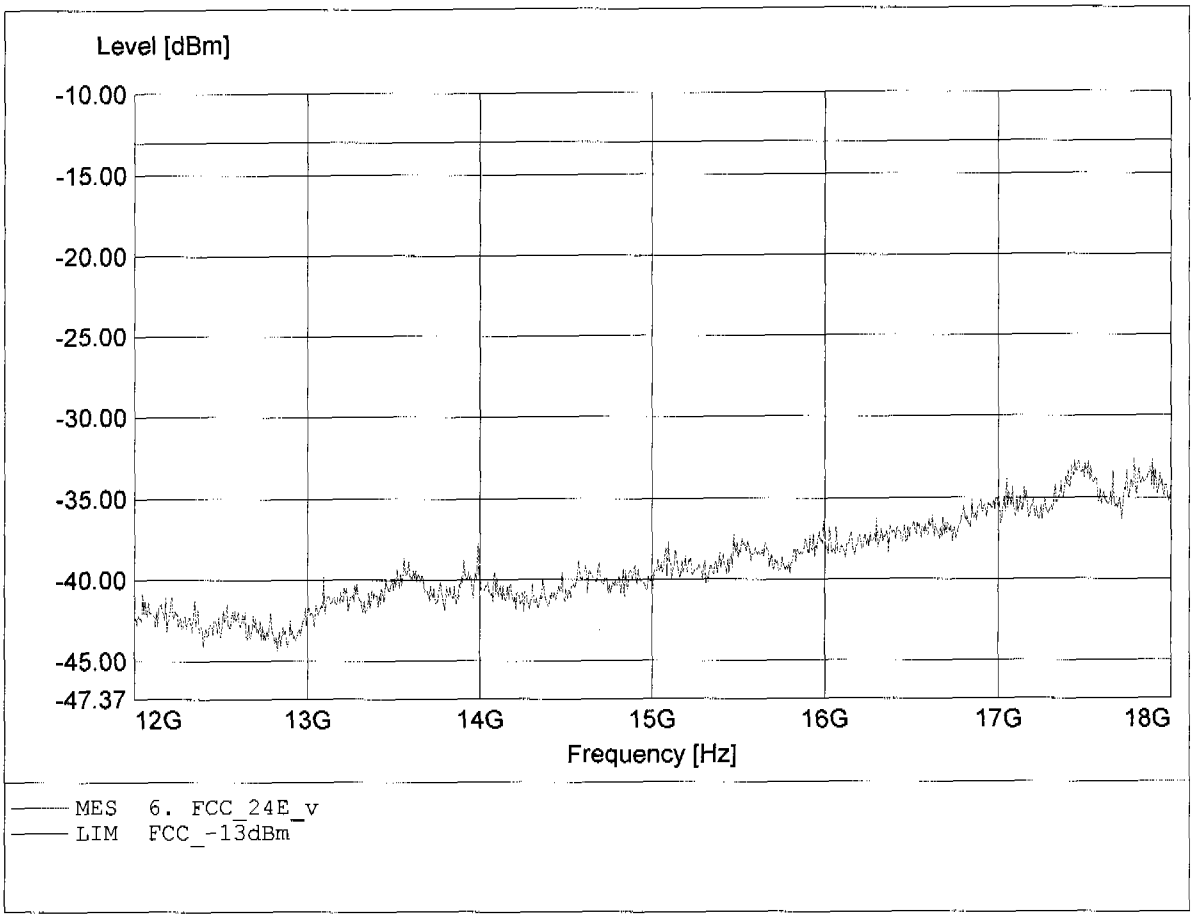
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	512
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 17.787GHz, Pmax: -32.29dBm, RBW: 1MHz



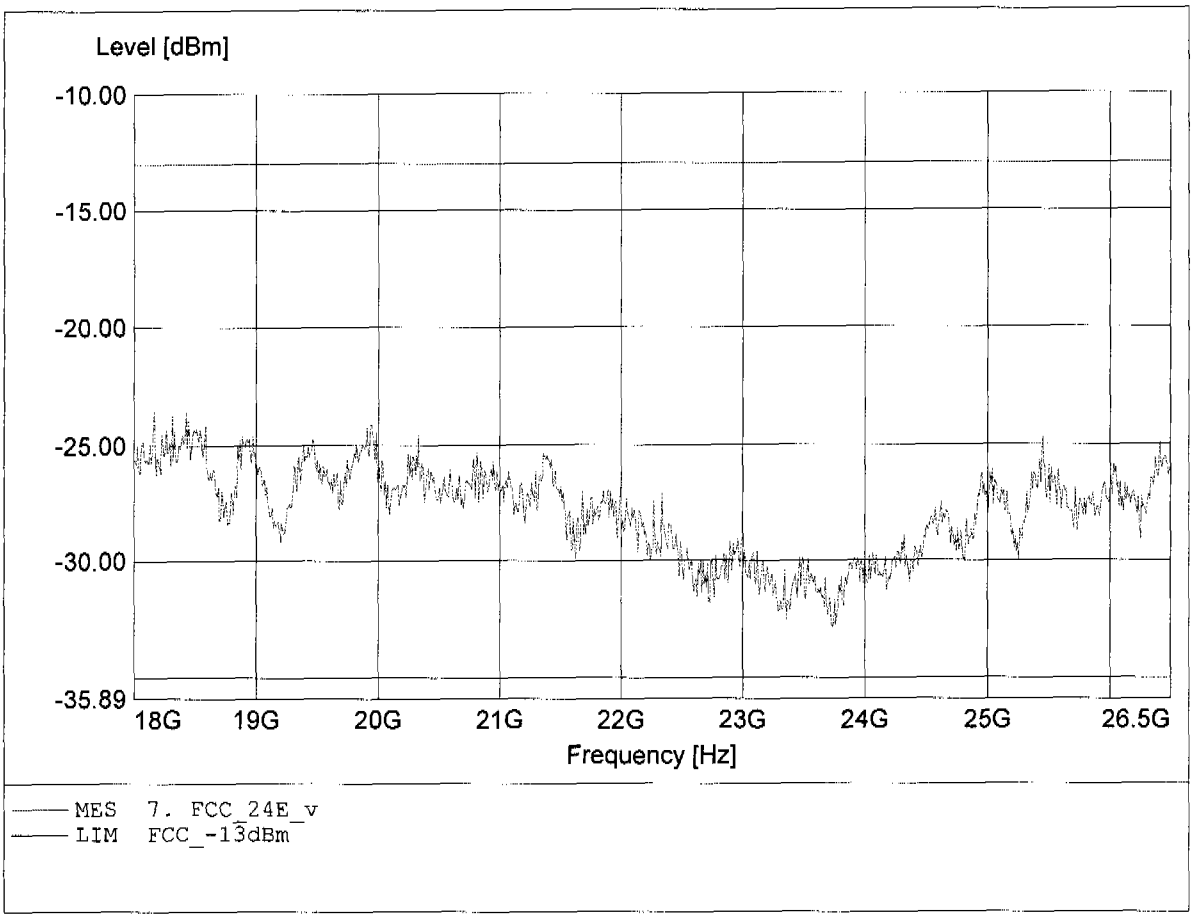
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	512
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 17.787GHz, Pmax: -32.45dBm, RBW: 1MHz



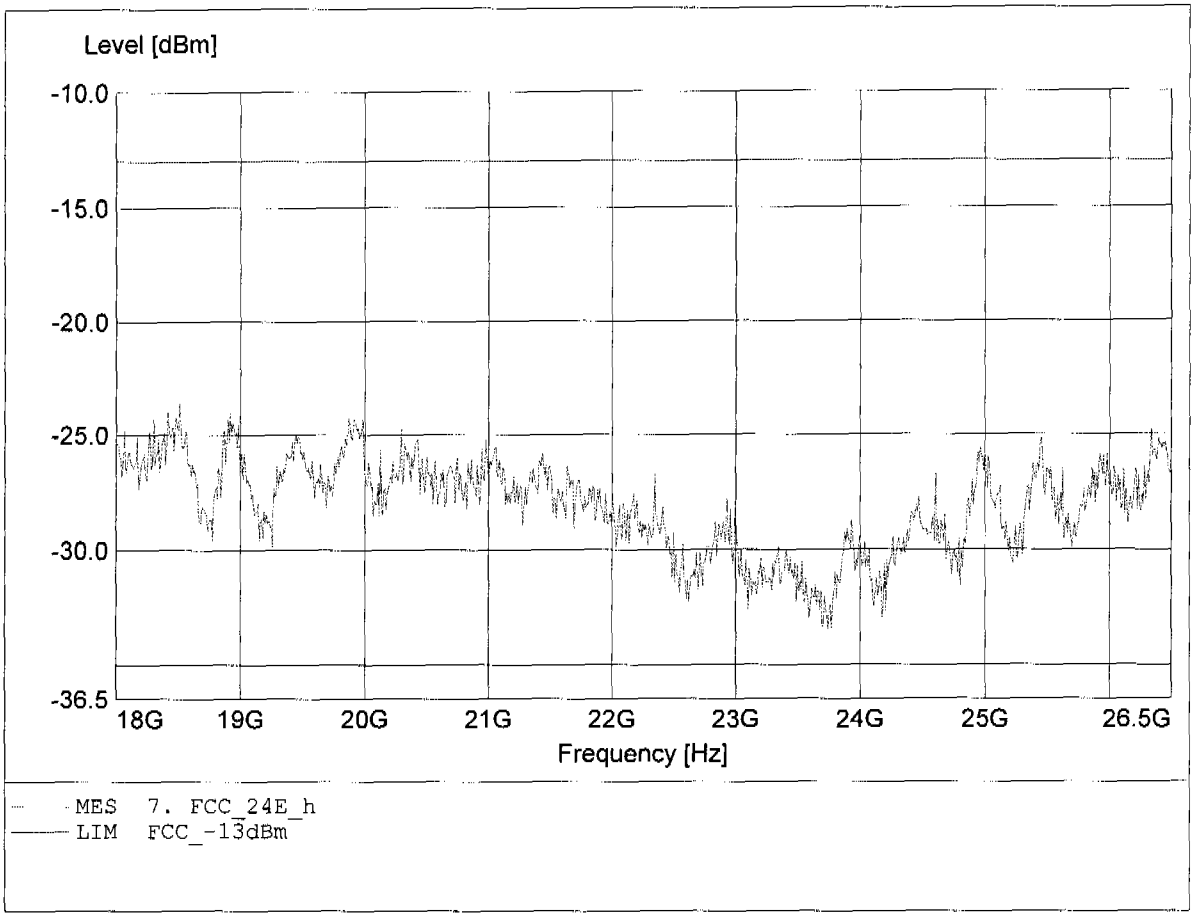
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	512
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, amplif.
Comment 2:	Freq: 18.161GHz, Pmax: -23.54dBm, RBW: 1MHz



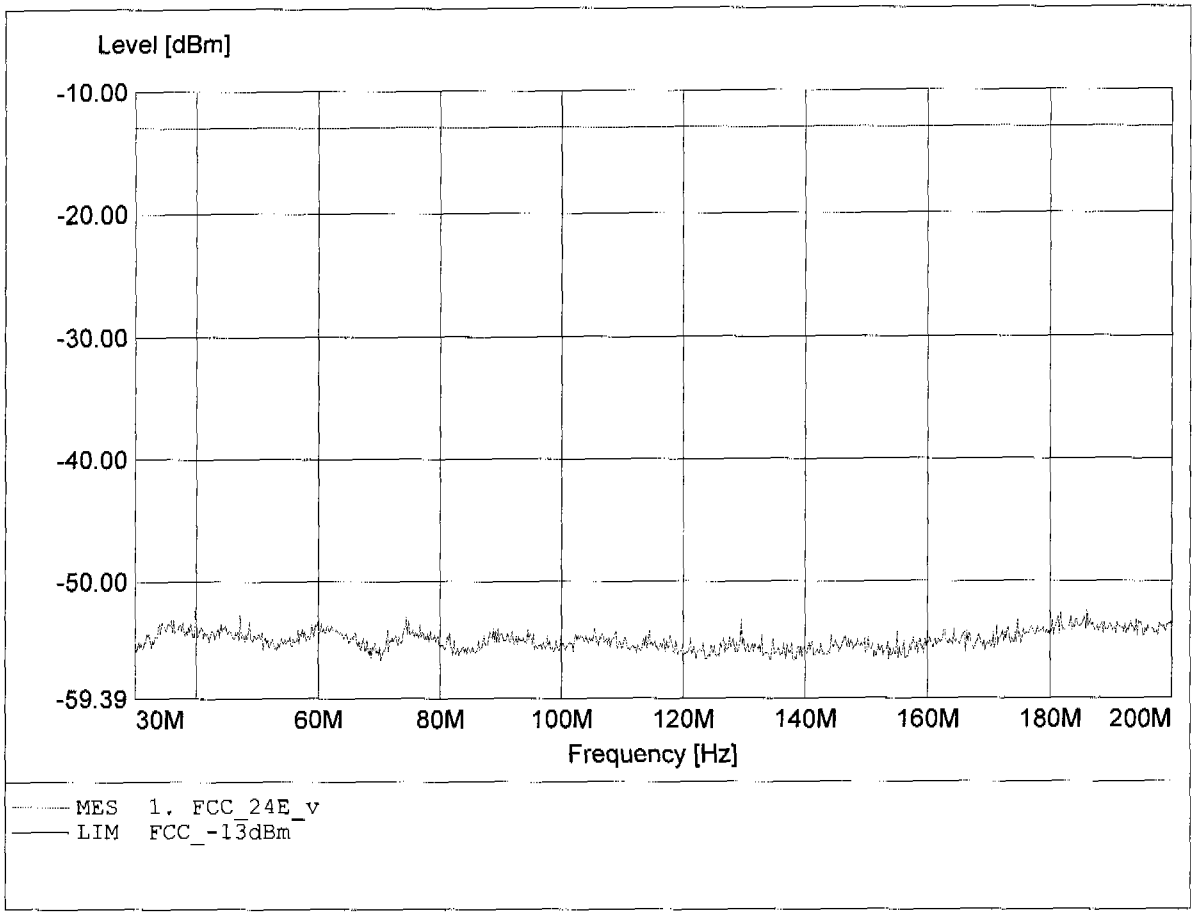
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	512
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, amplif.
Comment 2:	Freq: 18.510GHz, Pmax: -23.59dBm, RBW: 1MHz



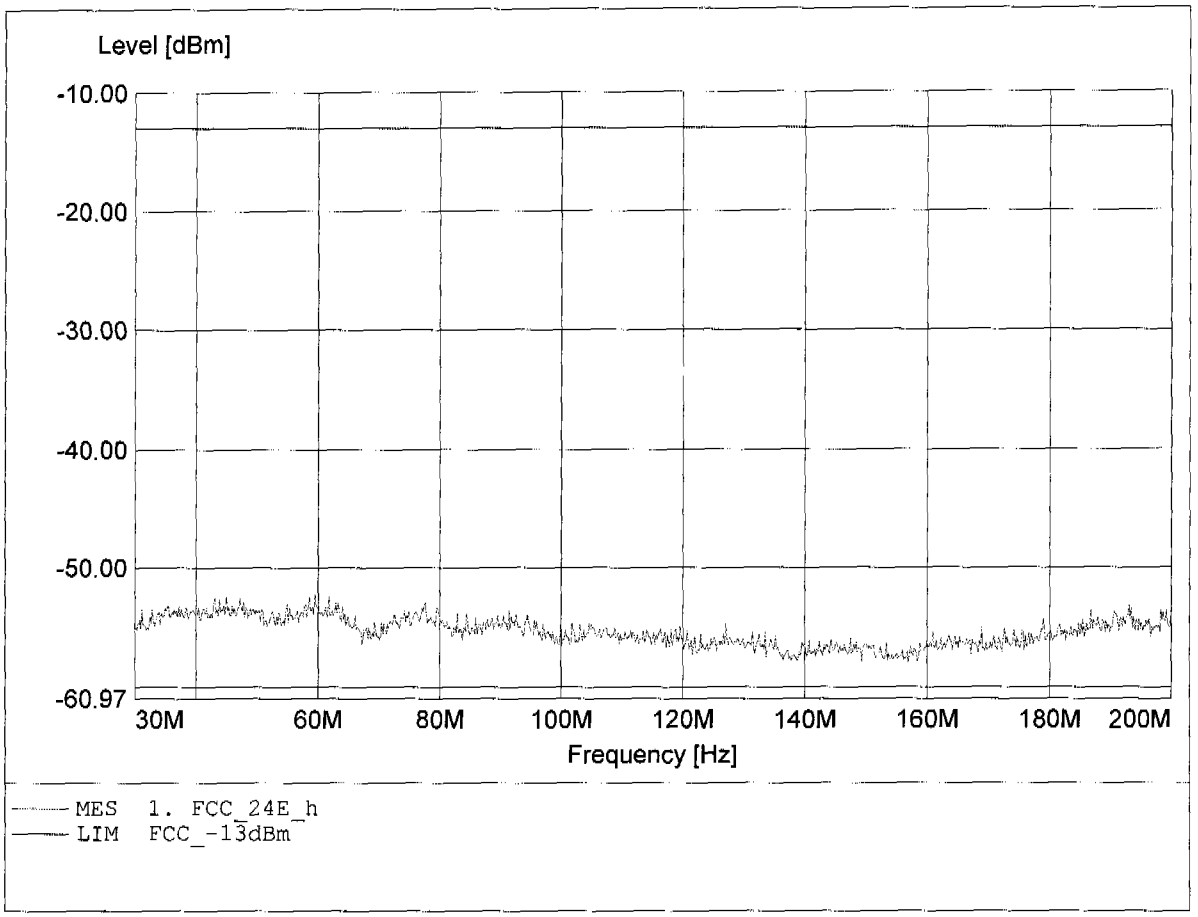
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	810
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HK 116
Comment 2:	Freq: 39.822MHz, Pmax: -52.22dBm, RBW: 1MHz



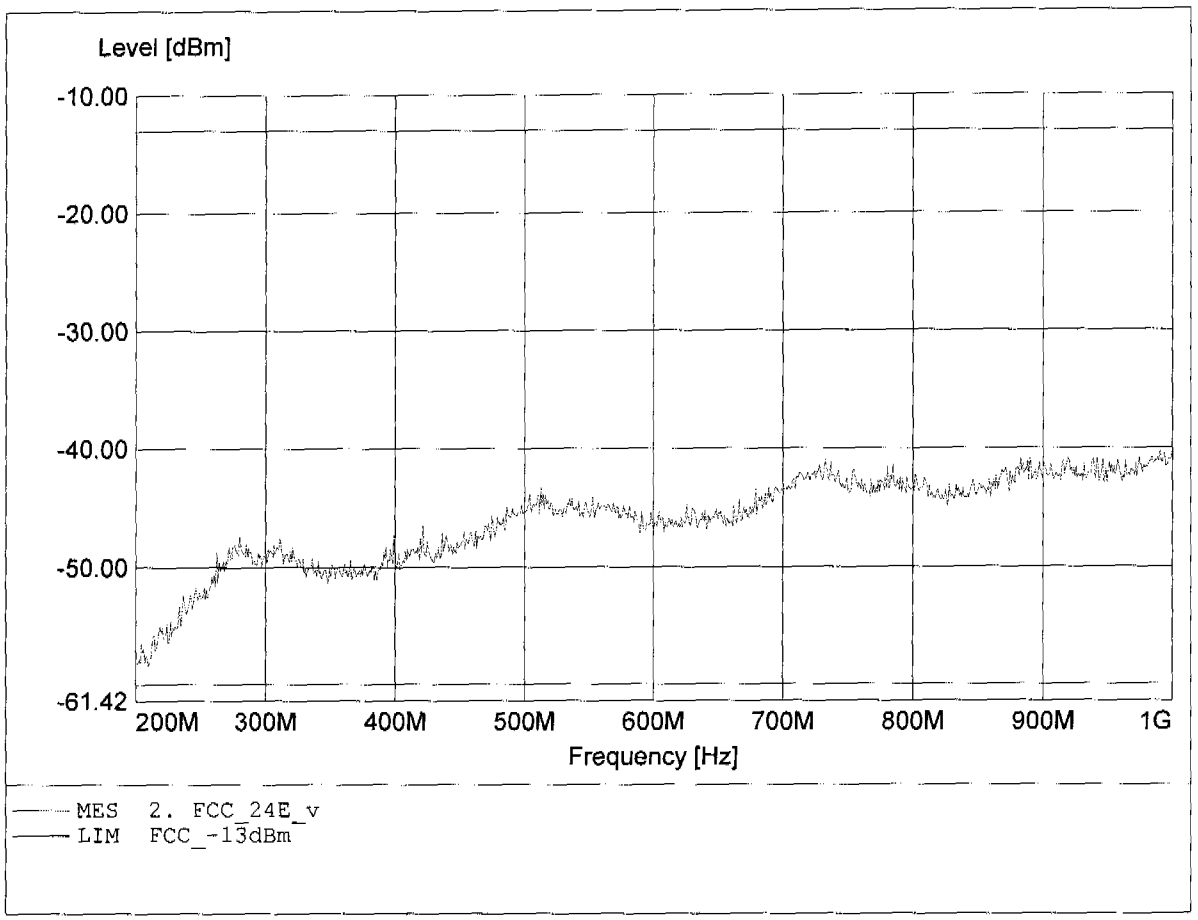
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	810
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HK 116
Comment 2:	Freq: 59.467MHz, Pmax: -52.15dBm, RBW: 1MHz



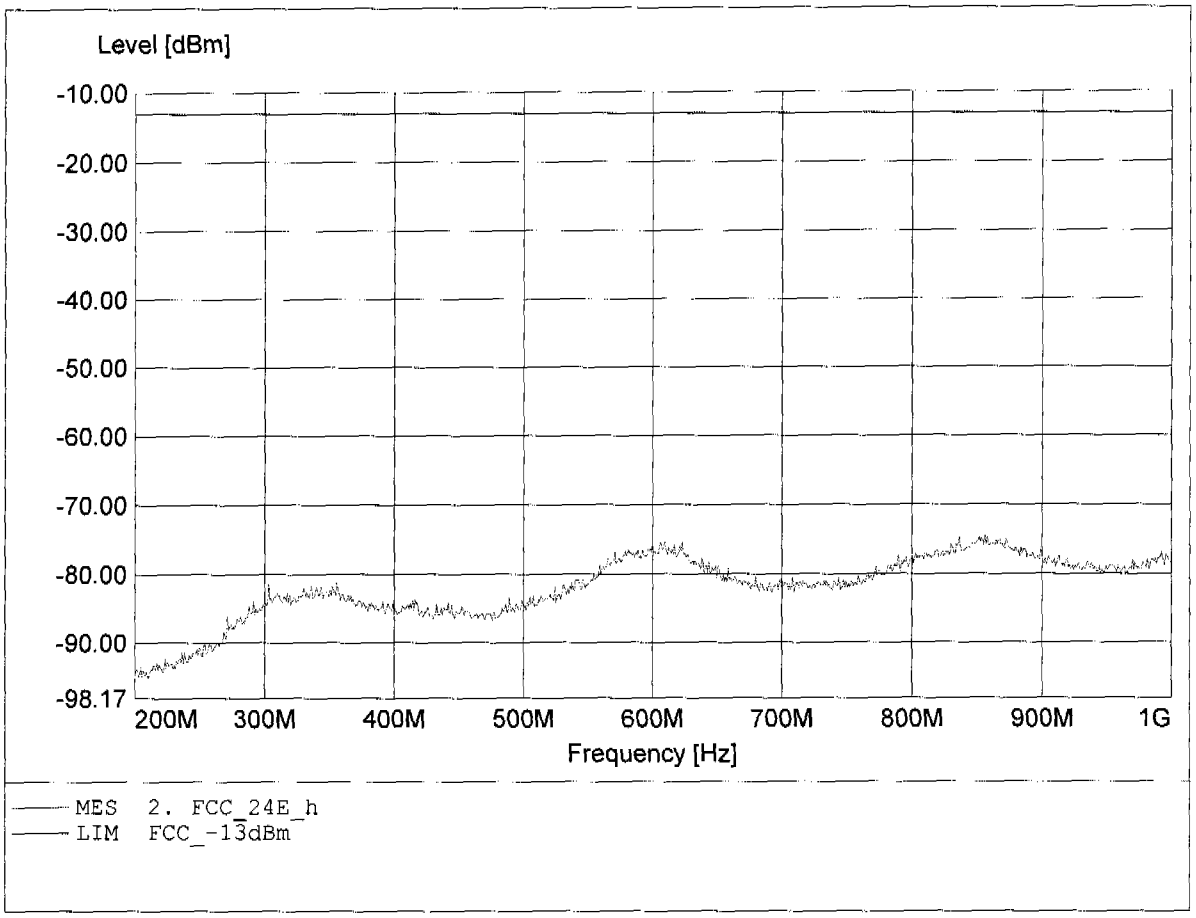
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	810
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL 223
Comment 2:	Freq: 990.222MHz, Pmax: -40.25dBm, RBW: 1MHz



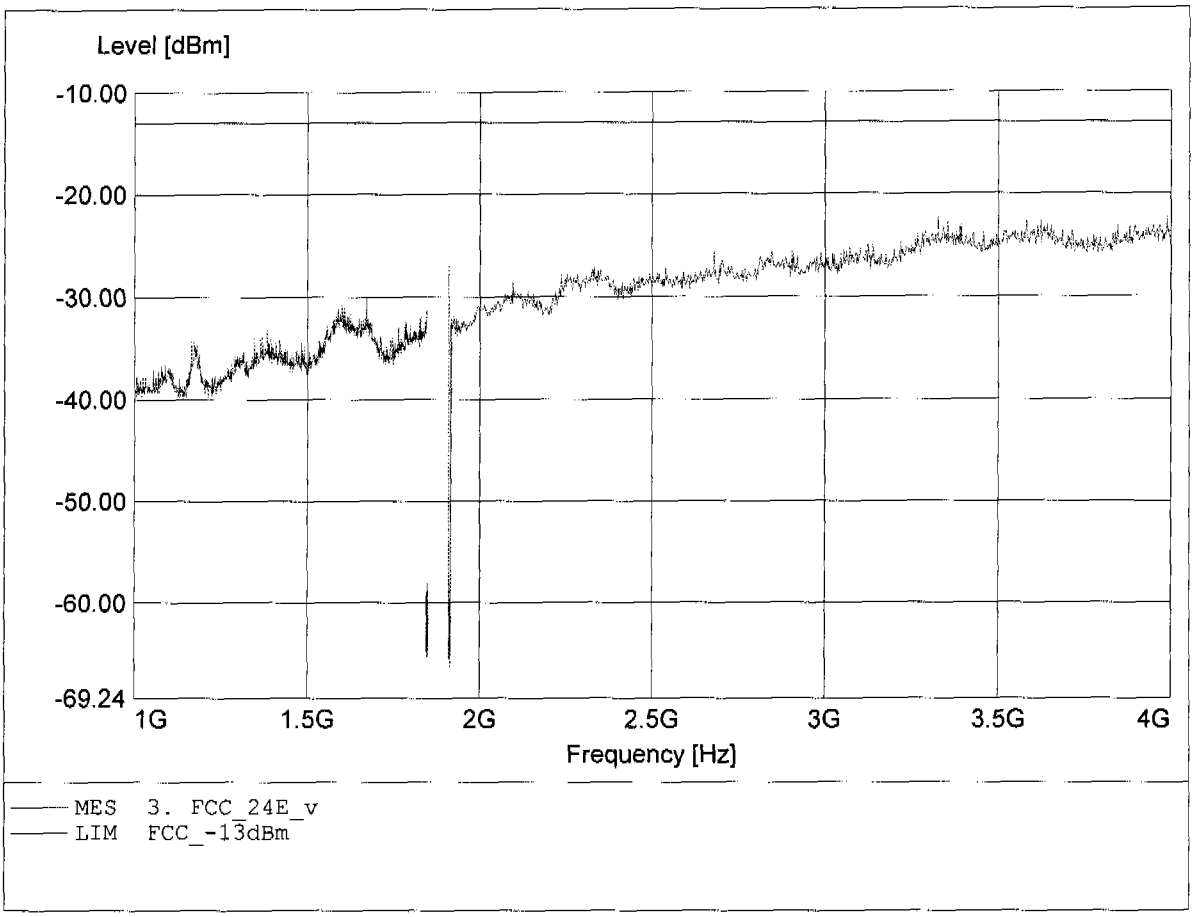
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	810
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL 223
Comment 2:	Freq: 856.000MHz, Pmax: -74.51dBm, RBW: 1MHz



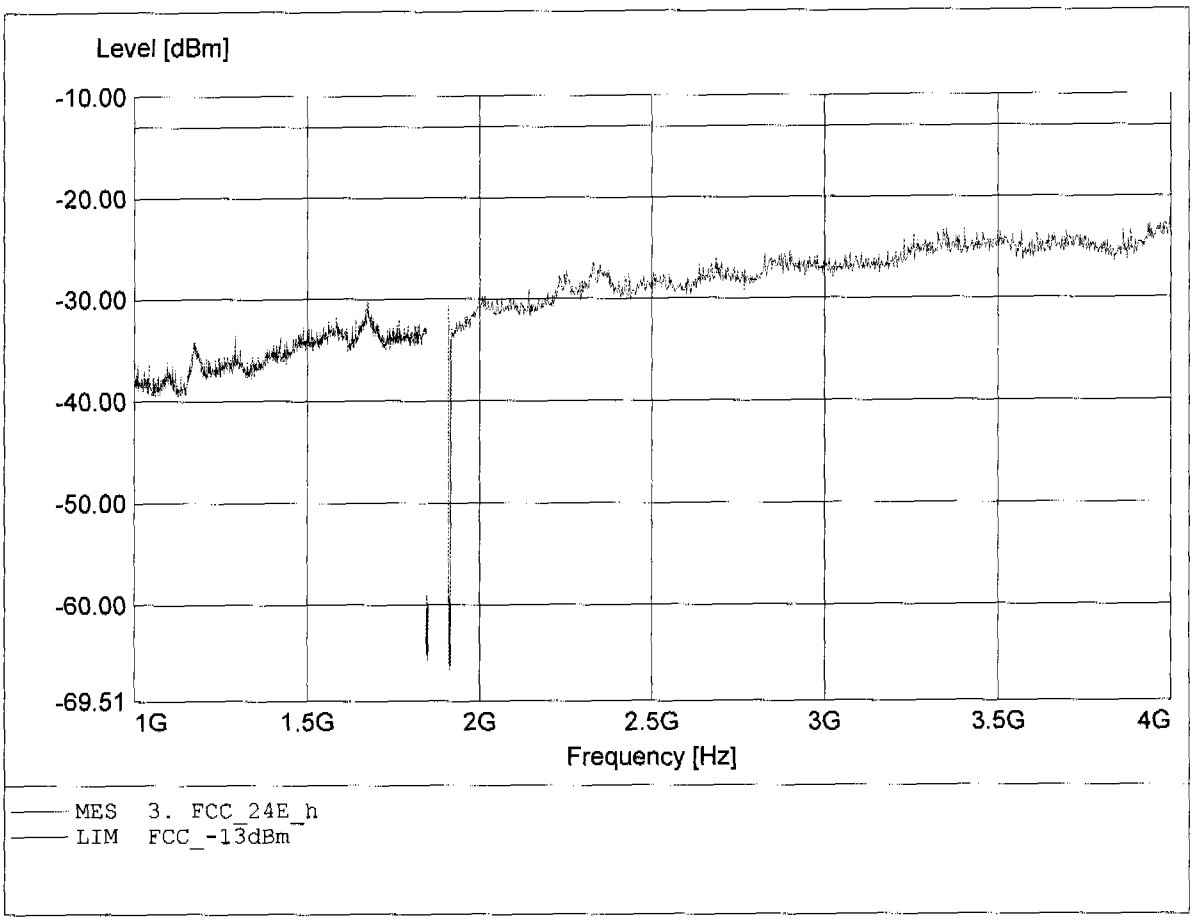
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	810
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025
Comment 2:	Freq: 3.988GHz, Pmax: -22.38dBm, RBW: 1MHz/3kHz



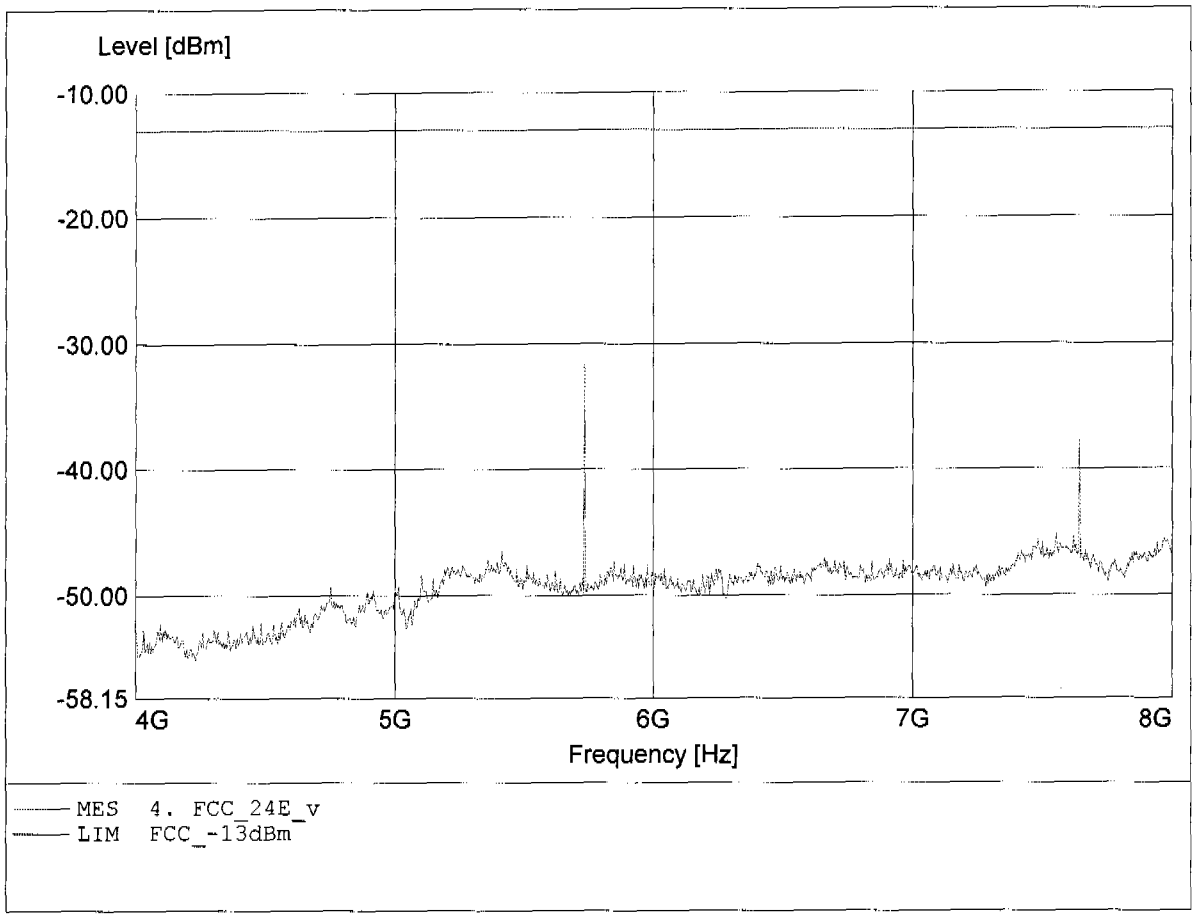
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	810
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025
Comment 2:	Freq: 3.998GHz, Pmax: -22.09dBm, RBW: 1MHz/3kHz



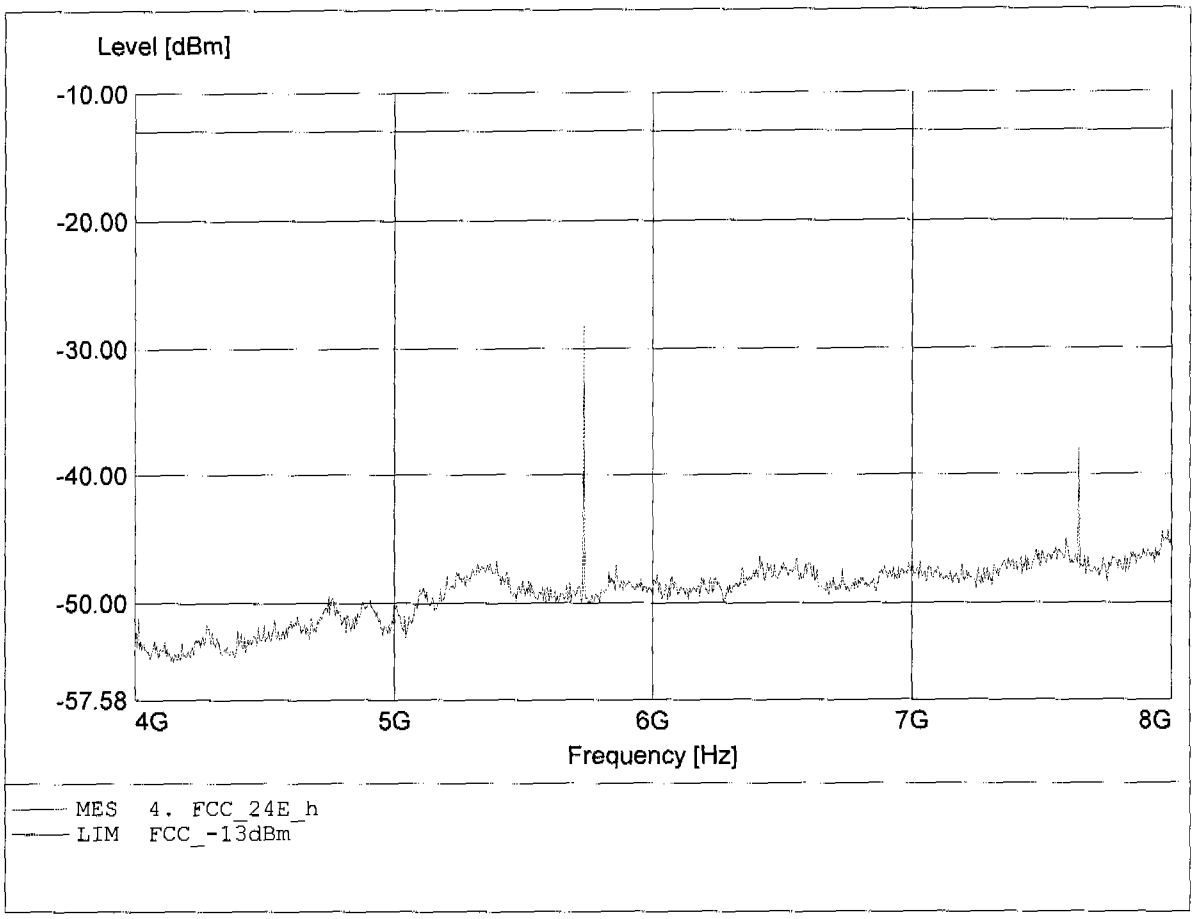
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	810
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to $24.238
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 5.733GHz, Pmax: -31.67dBm, RBW: 1MHz



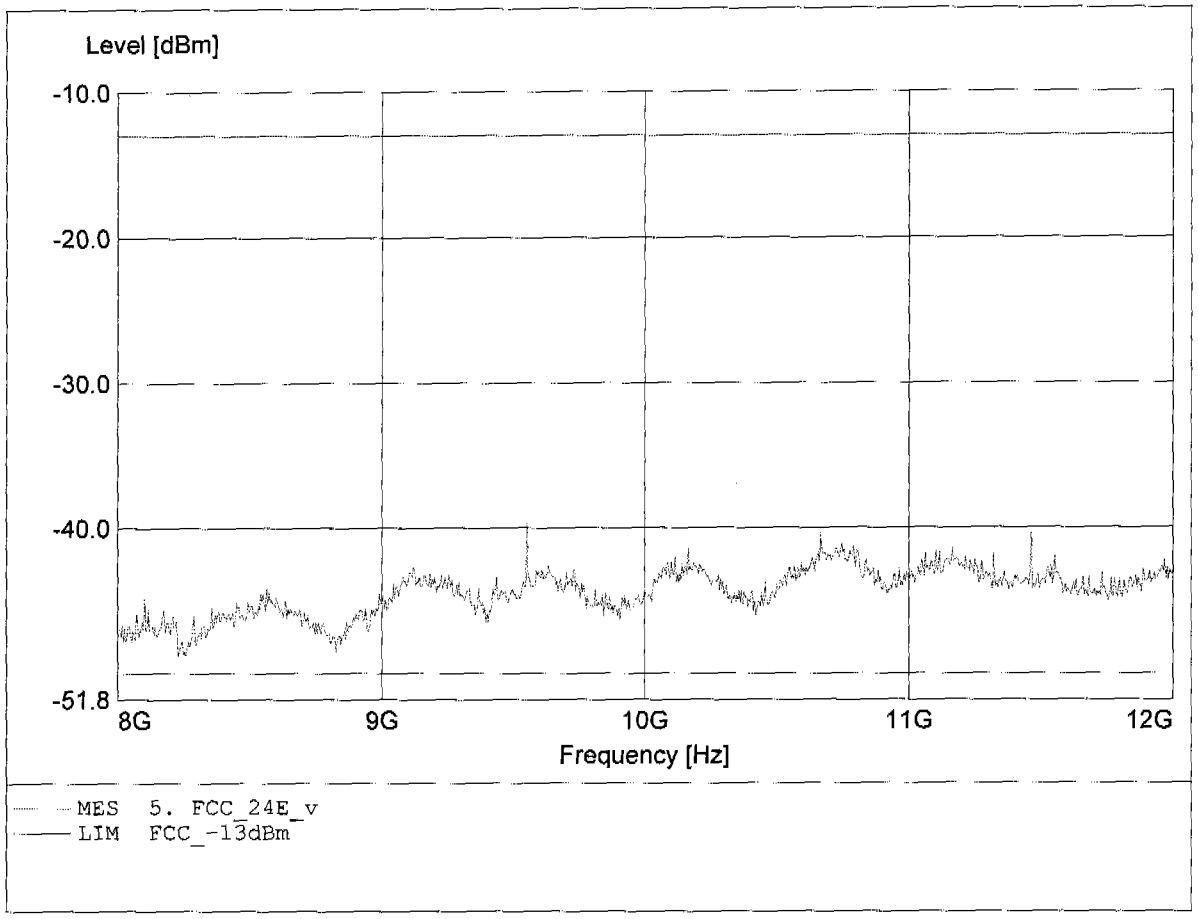
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	810
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 5.733GHz, Pmax: -28.24dBm, RBW: 1MHz



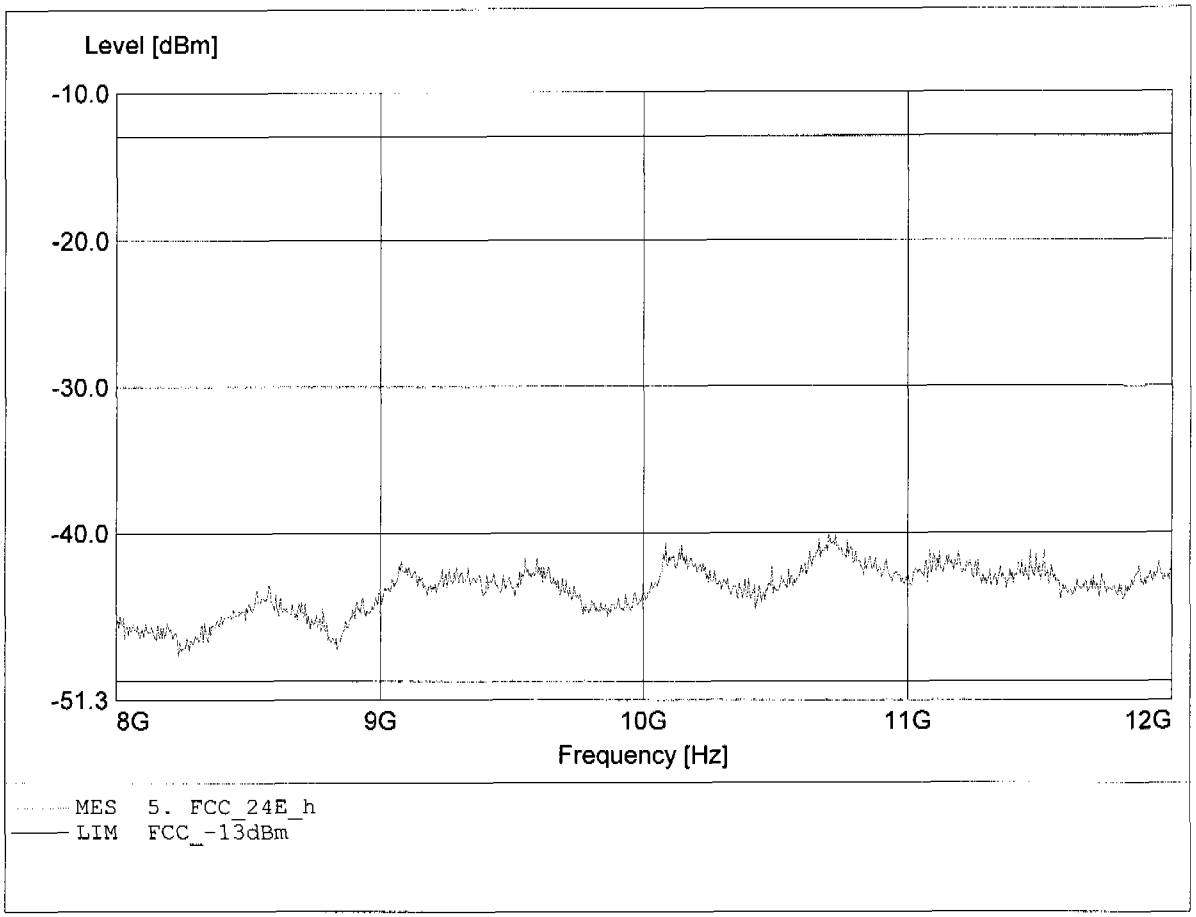
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	810
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 9.551GHz, Pmax: -39.71dBm, RBW: 1MHz



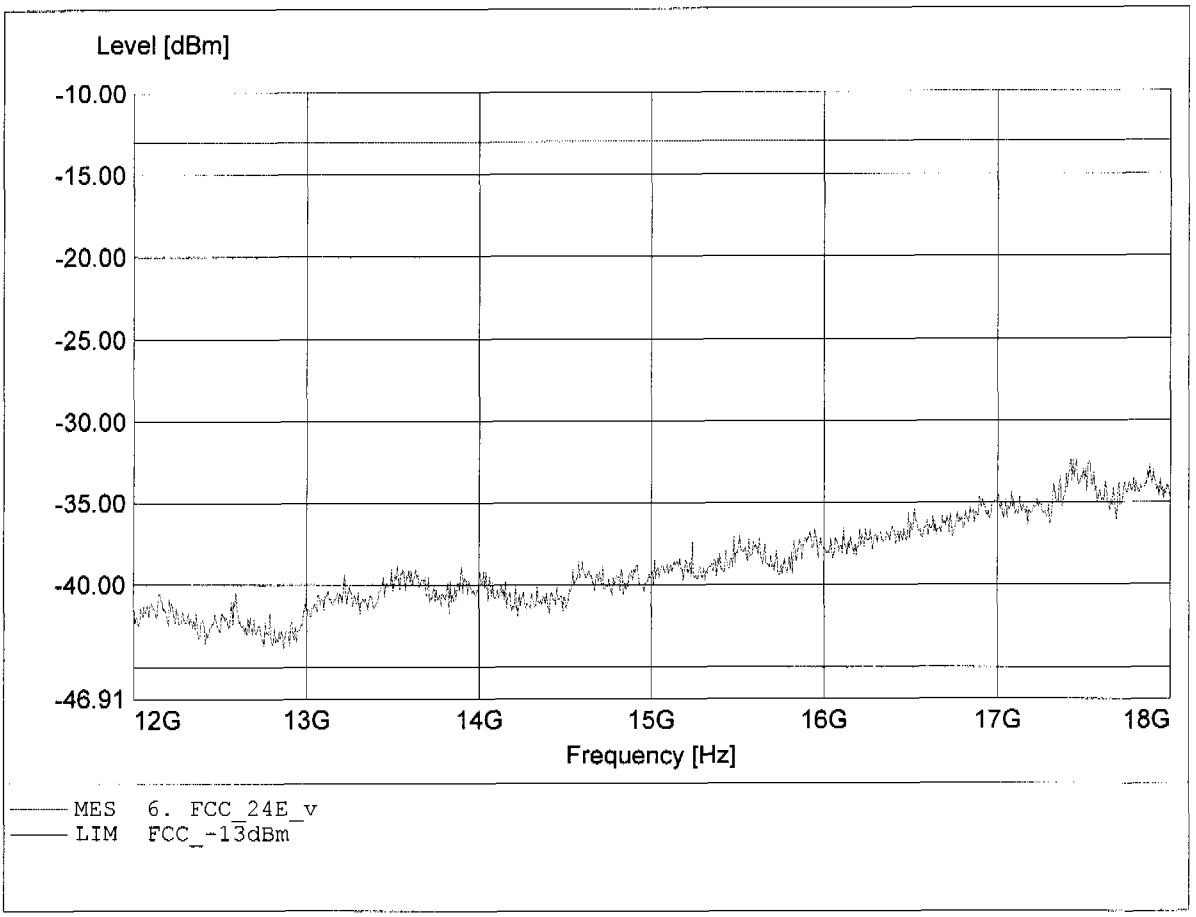
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	810
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 10.729GHz, Pmax: -40.11dBm, RBW: 1MHz



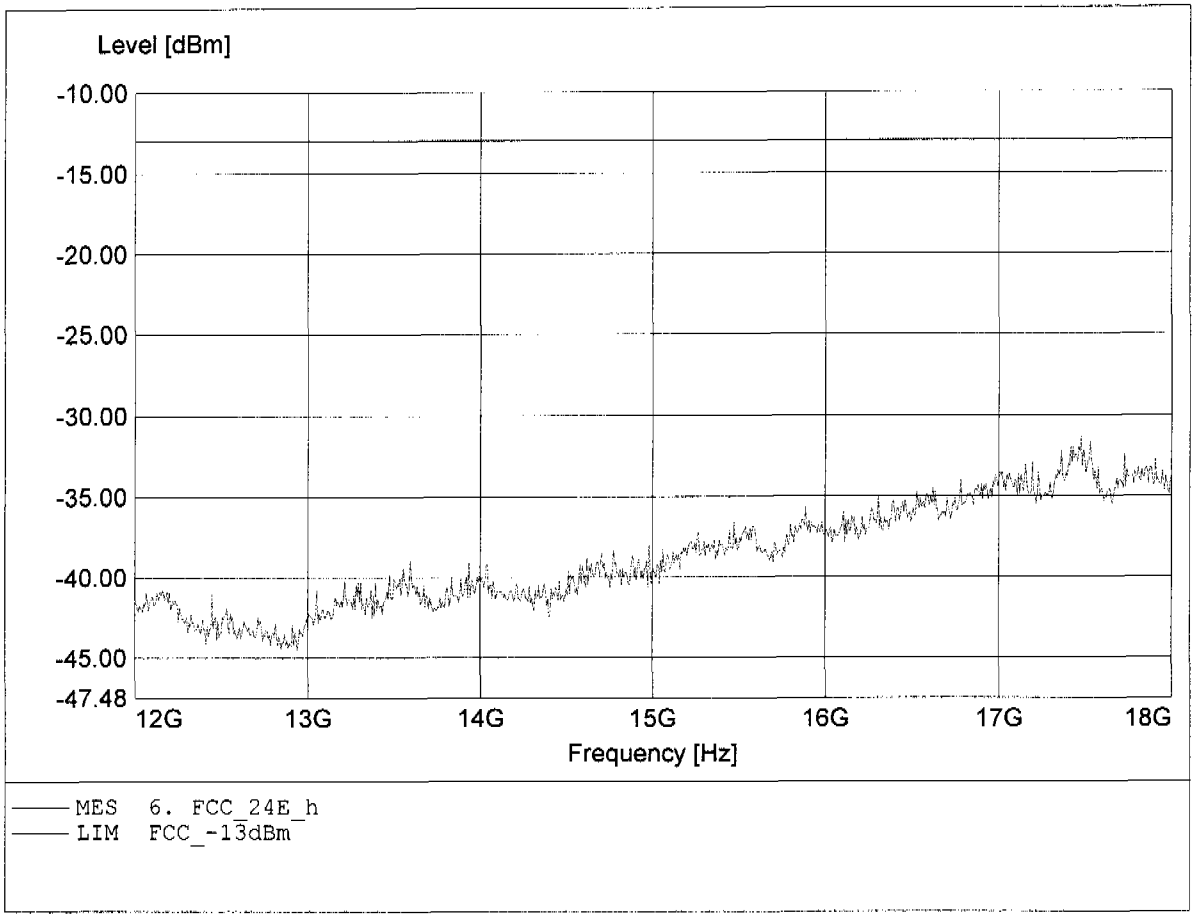
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	810
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 17.420GHz, Pmax: -32.31dBm, RBW: 1MHz



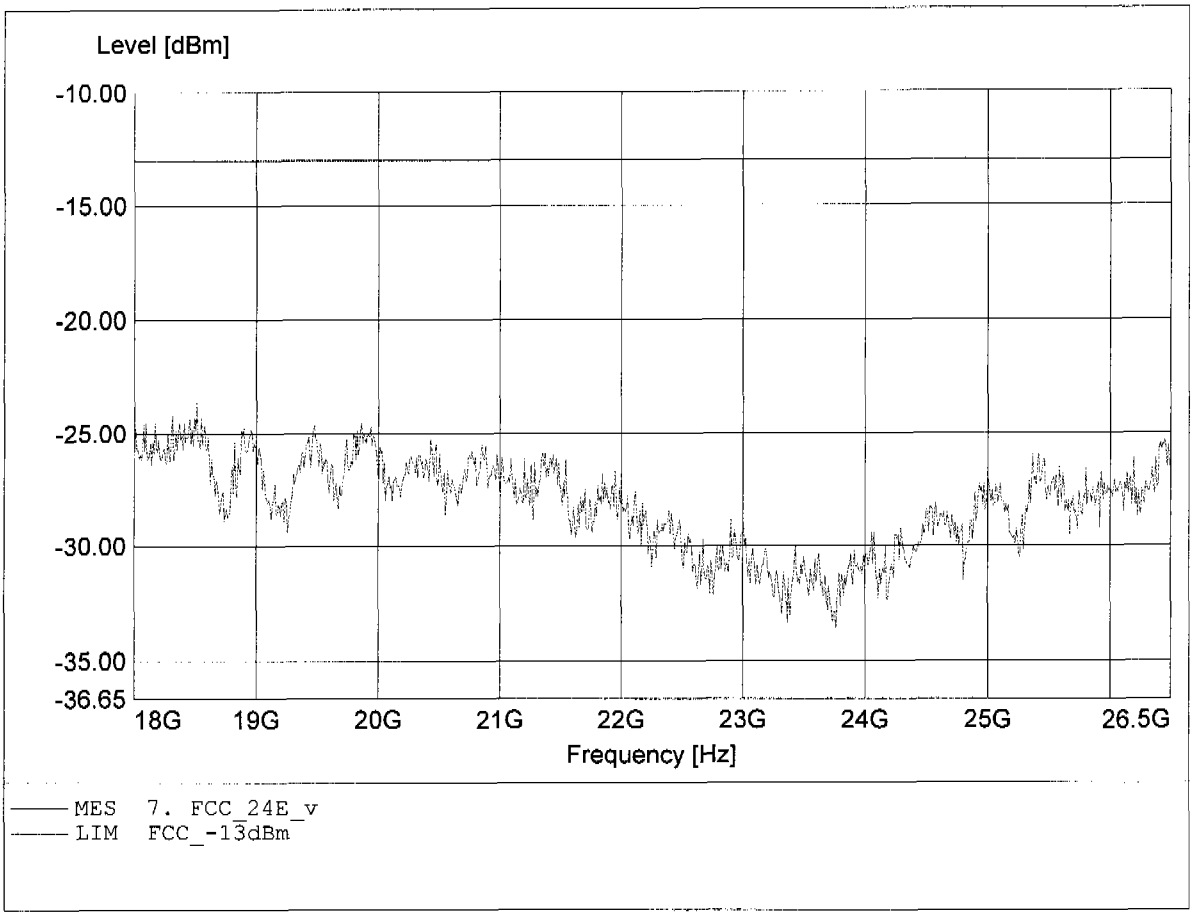
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	810
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 17.473GHz, Pmax: -31.31dBm, RBW: 1MHz



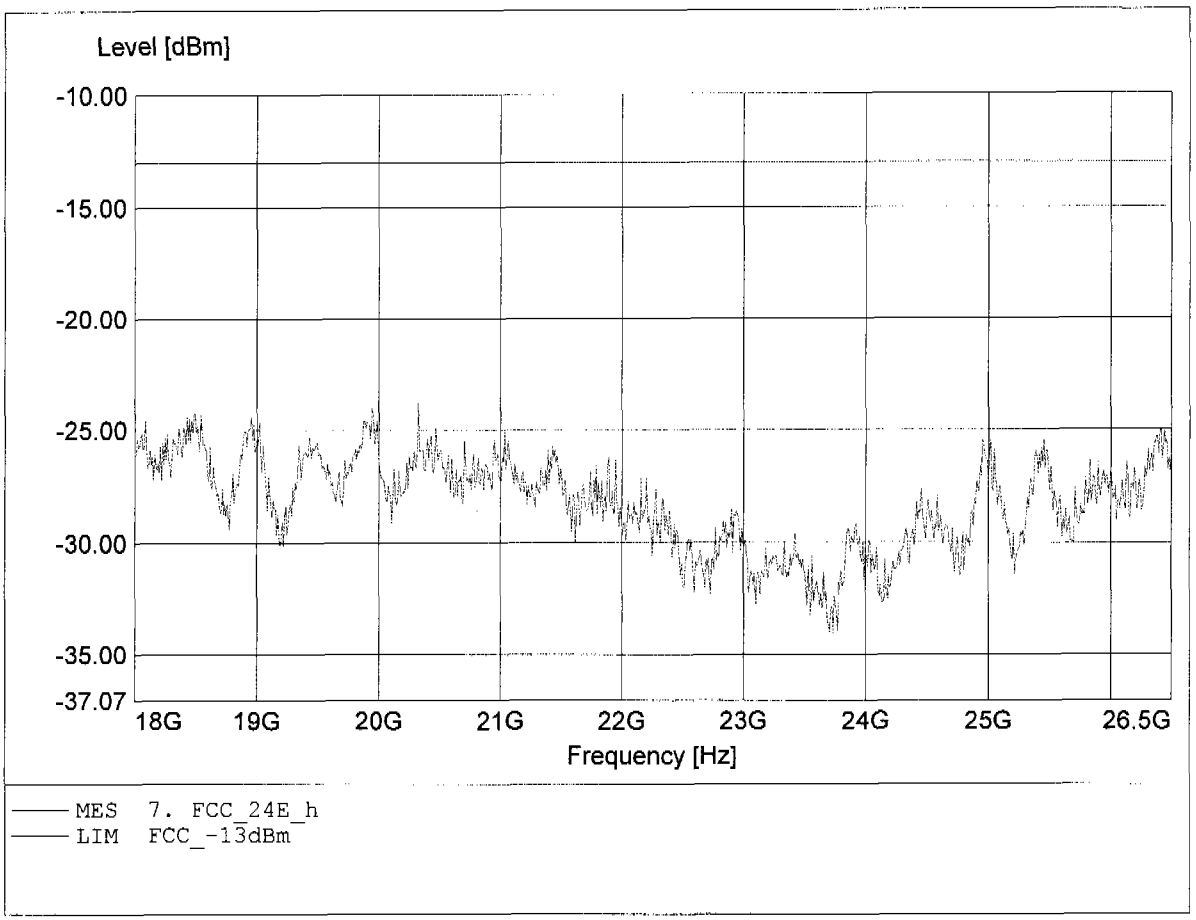
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	810
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, amplif.
Comment 2:	Freq: 18.510GHz, Pmax: -23.62dBm, RBW: 1MHz



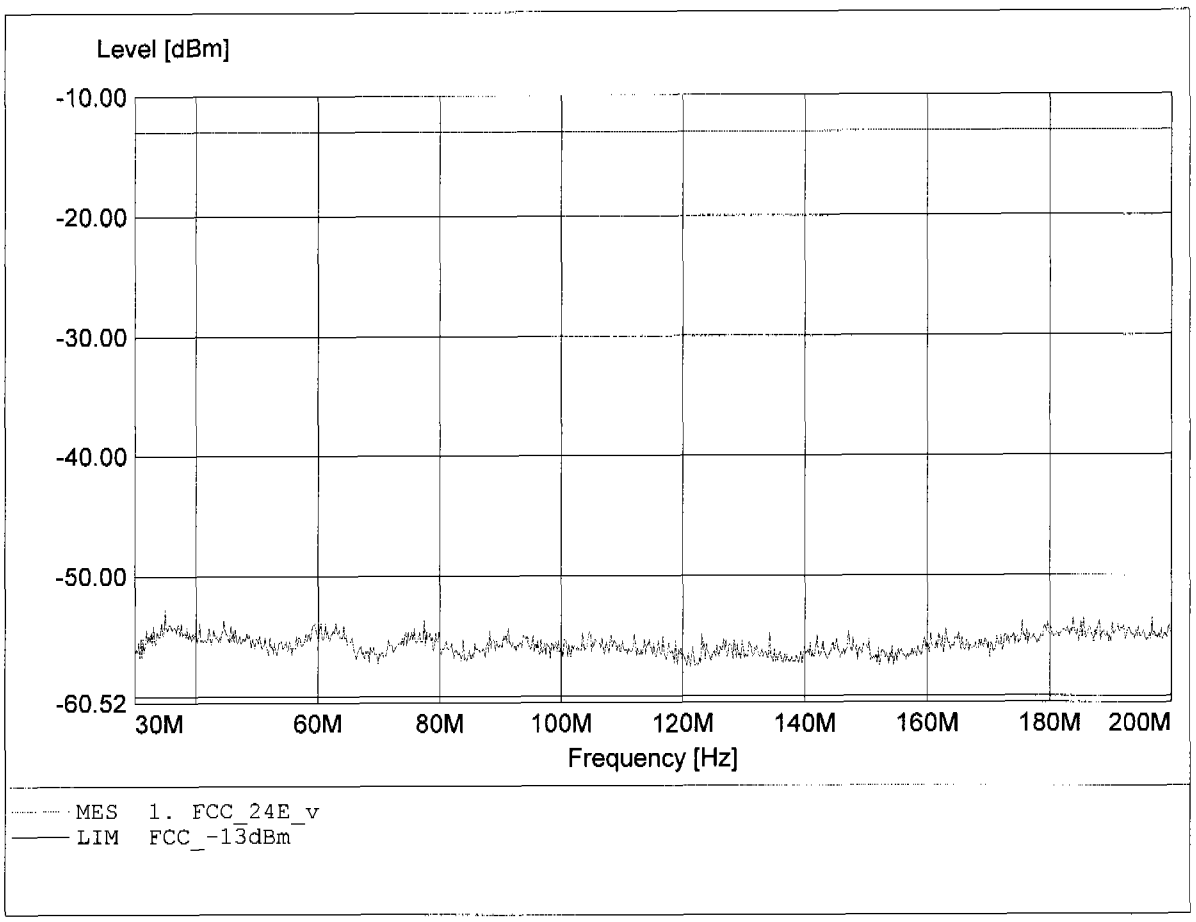
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	810
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, amplif.
Comment 2:	Freq: 20.323GHz, Pmax: -23.82dBm, RBW: 1MHz



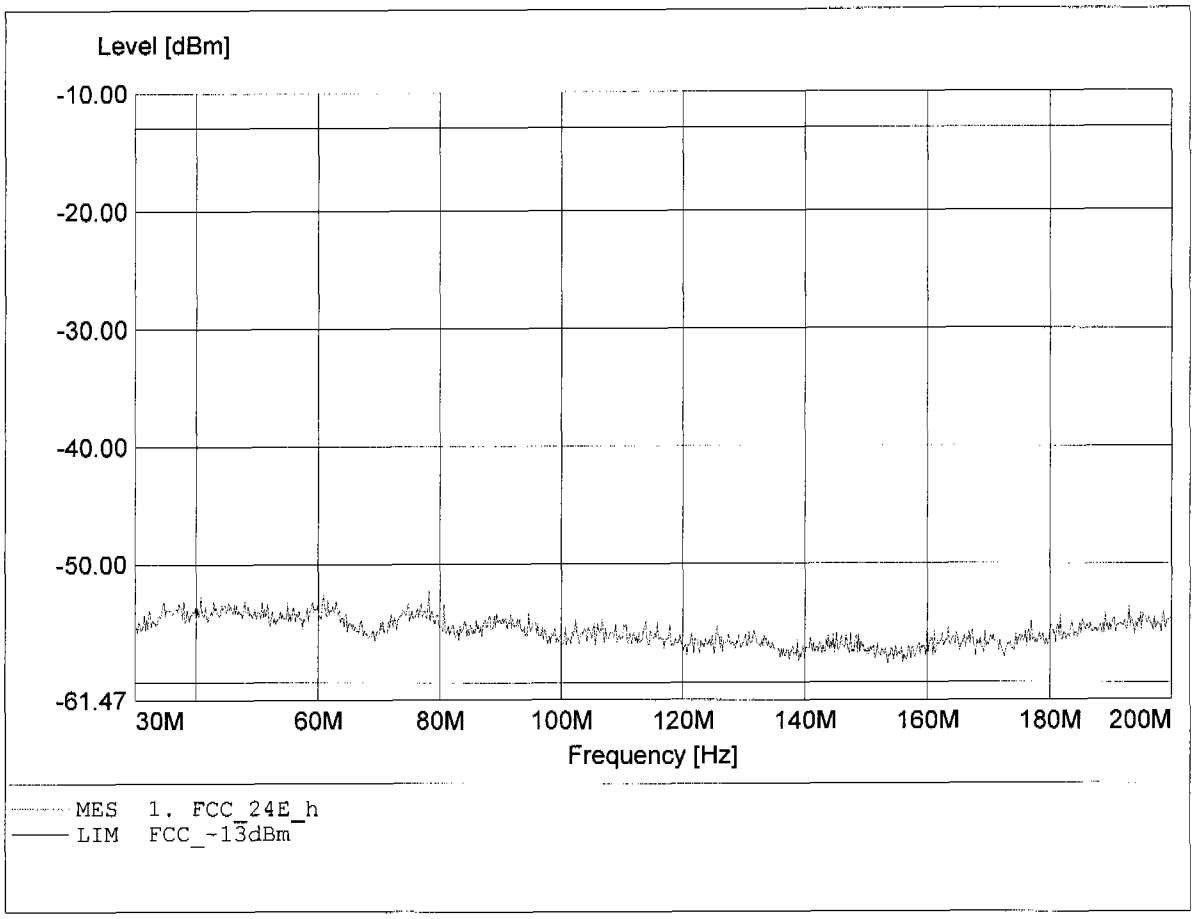
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	661
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HK 116
Comment 2:	Freq: 34.911MHz, Pmax: -52.74dBm, RBW: 1MHz



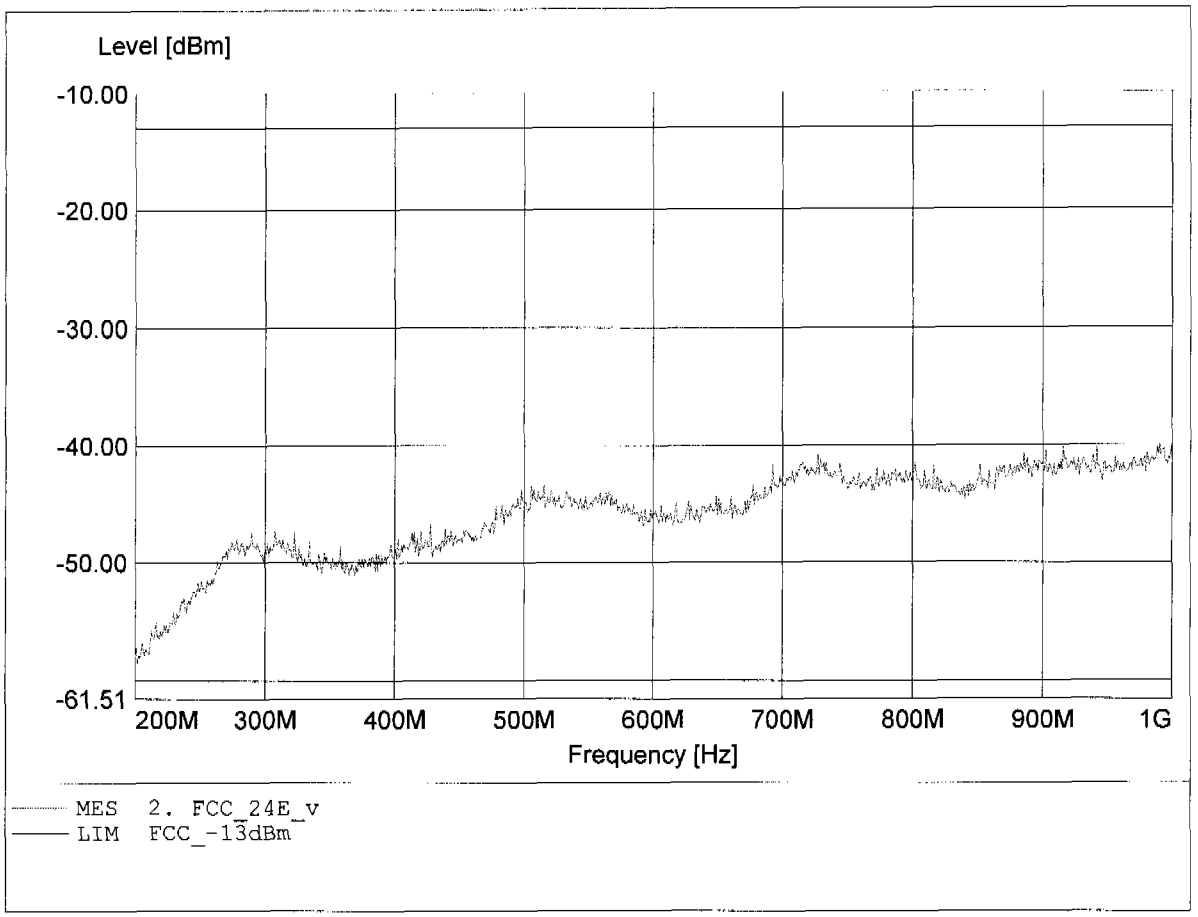
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	661
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HK 116
Comment 2:	Freq: 78.167MHz, Pmax: -52.21dBm, RBW: 1MHz



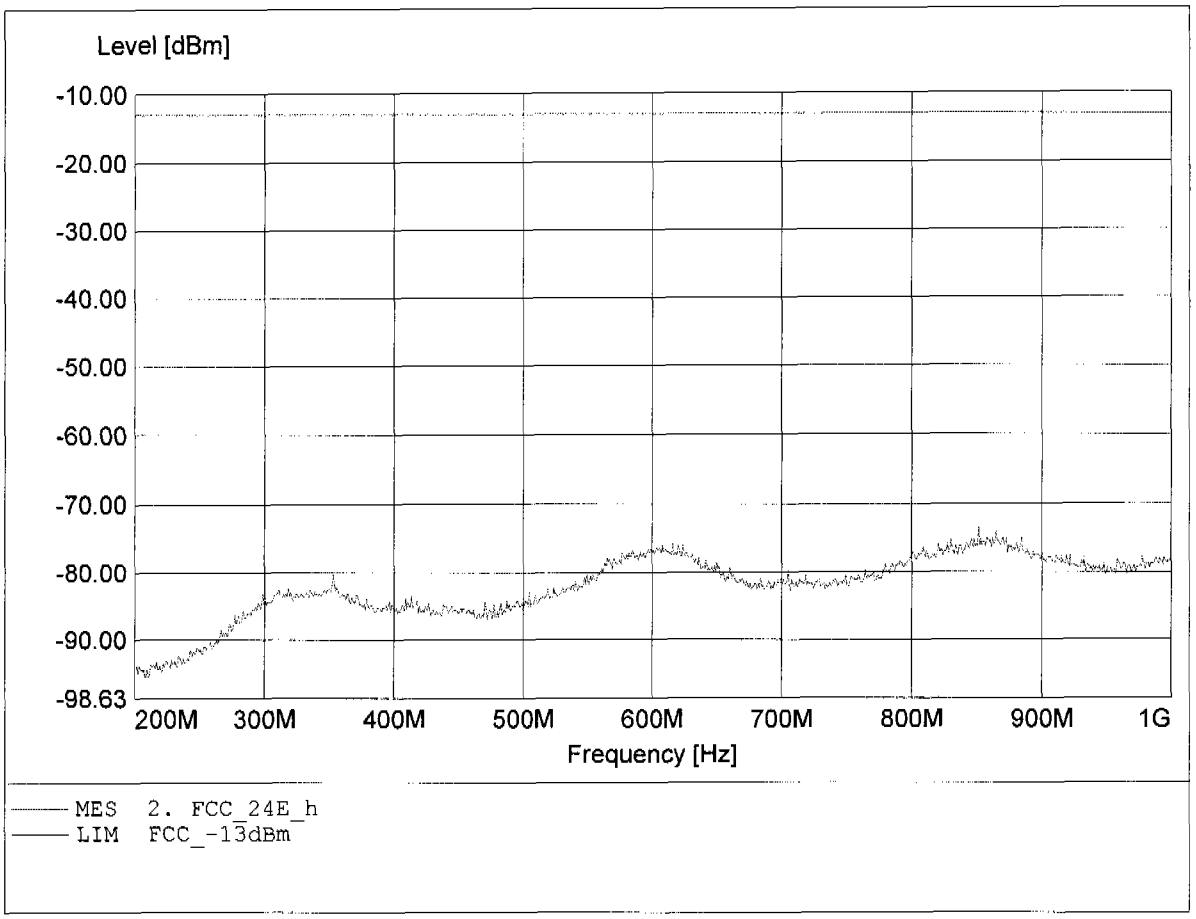
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	661
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL 223
Comment 2:	Freq: 941.333MHz, Pmax: -39.95dBm, RBW: 1MHz



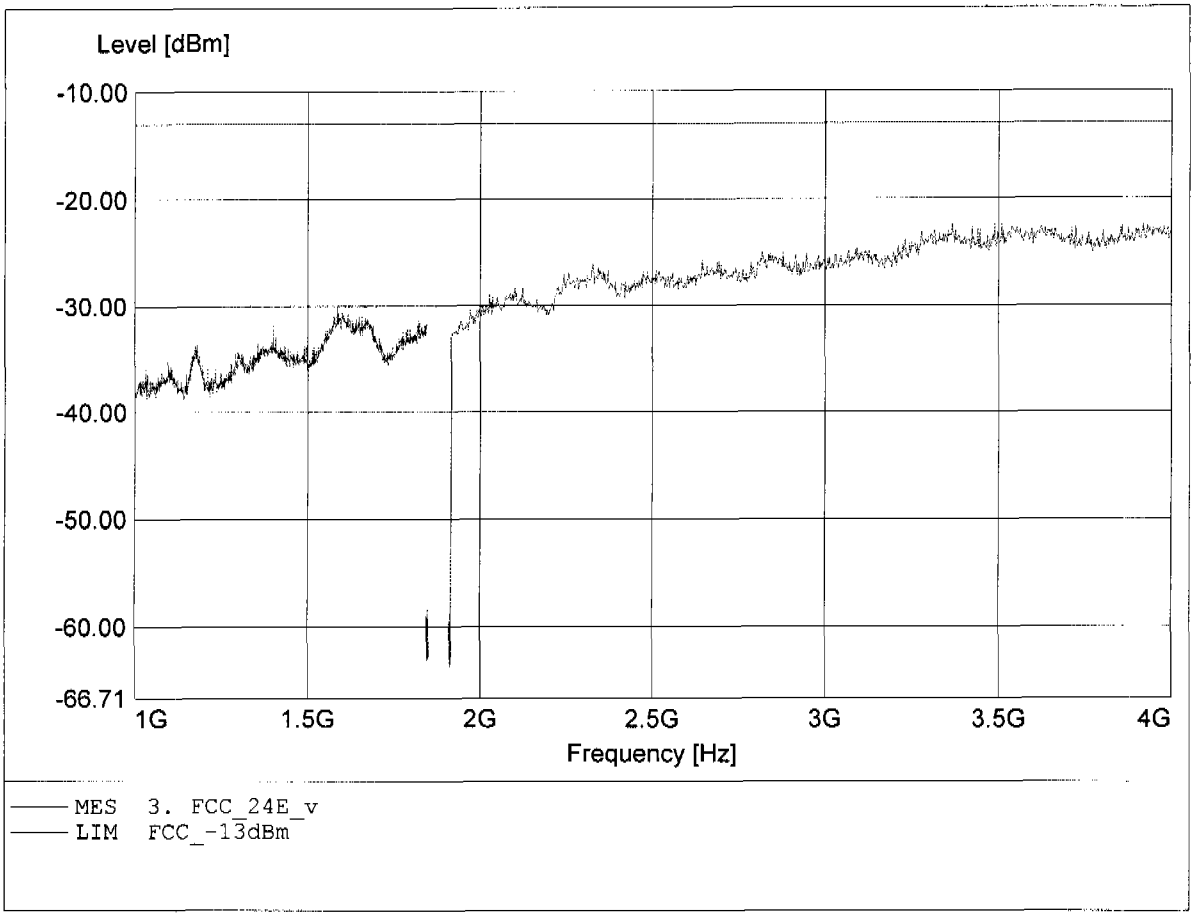
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	661
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL 223
Comment 2:	Freq: 851.556MHz, Pmax: -73.44dBm, RBW: 1MHz



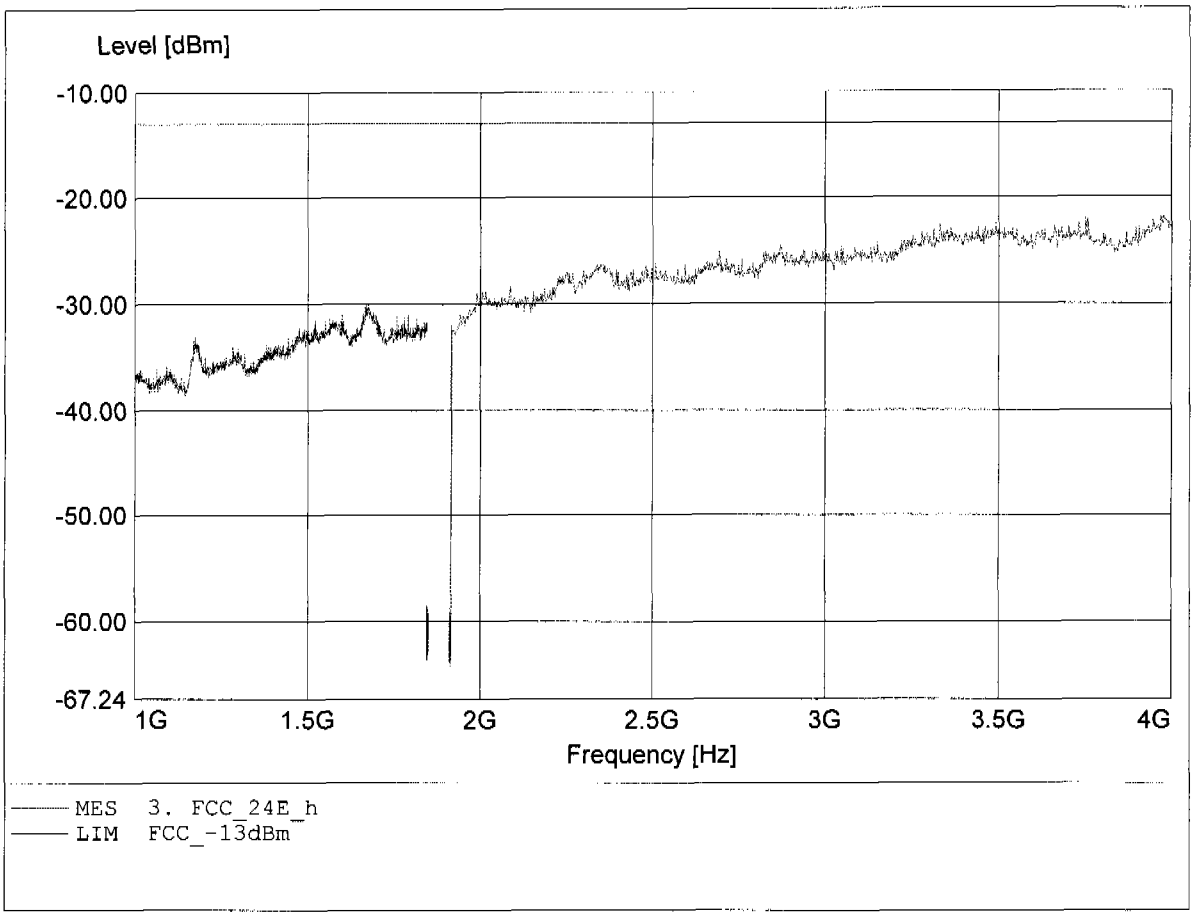
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	661
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025
Comment 2:	Freq: 3.365GHz, Pmax: -22.34dBm, RBW: 1MHz/3kHz



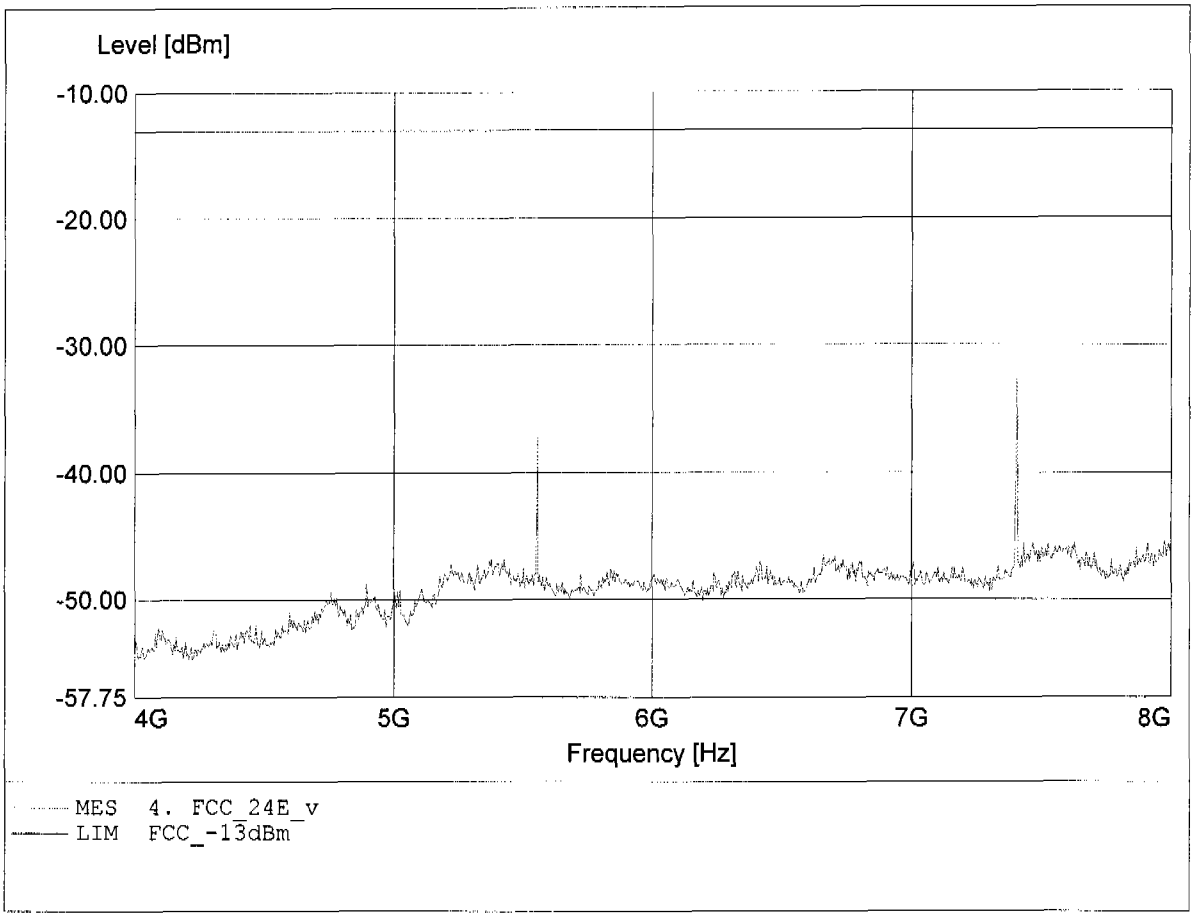
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	661
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025
Comment 2:	Freq: 3.977GHz, Pmax: -21.81dBm, RBW: 1MHz/3kHz



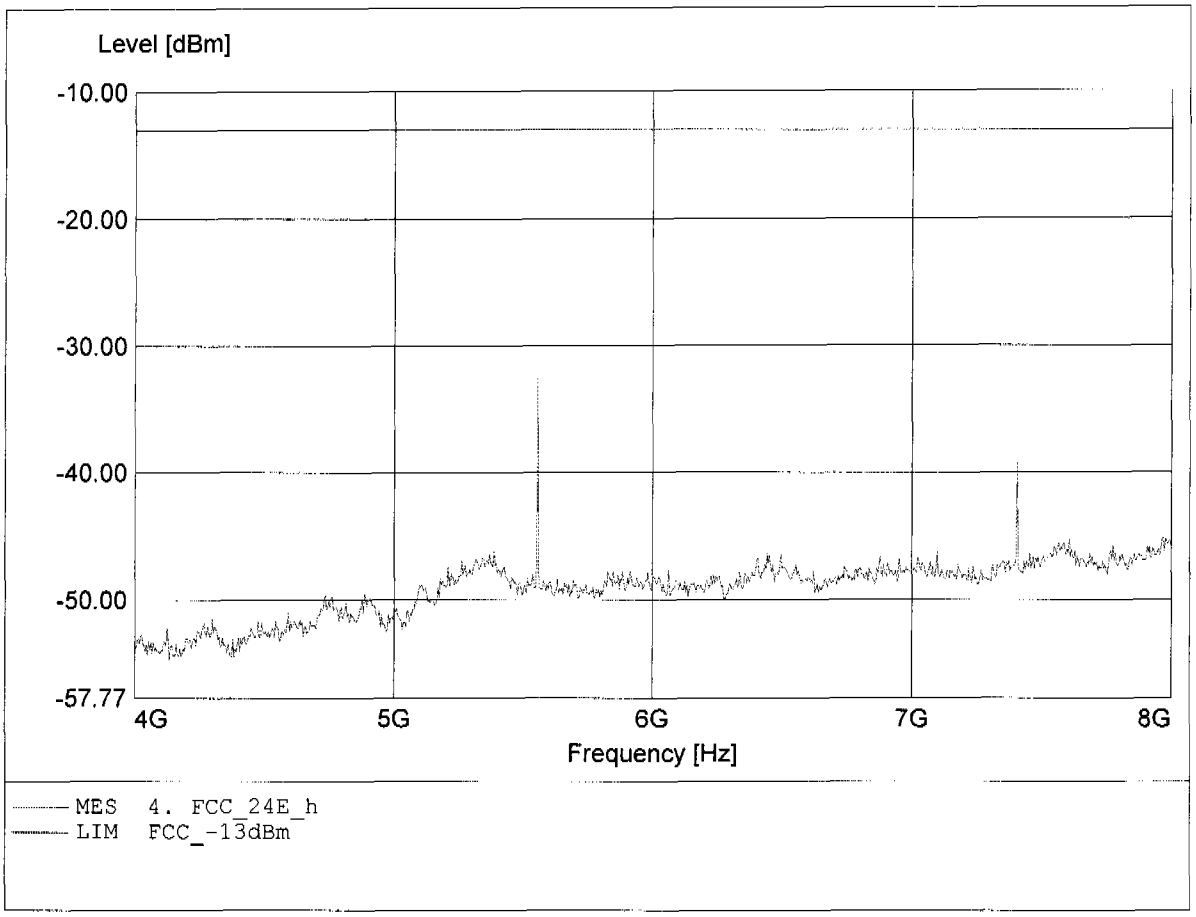
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	661
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 7.404GHz, Pmax: -32.77dBm, RBW: 1MHz



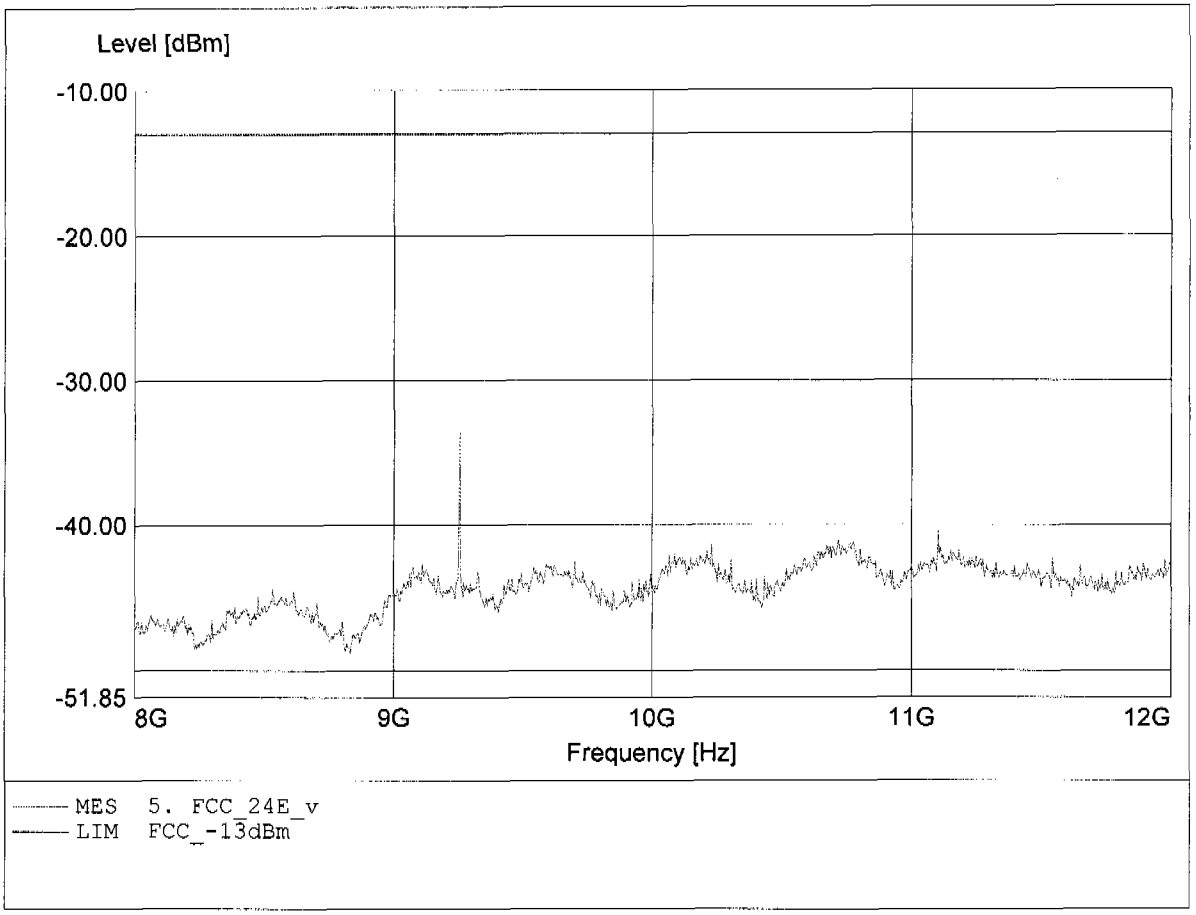
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	661
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 5.556GHz, Pmax: -32.42dBm, RBW: 1MHz



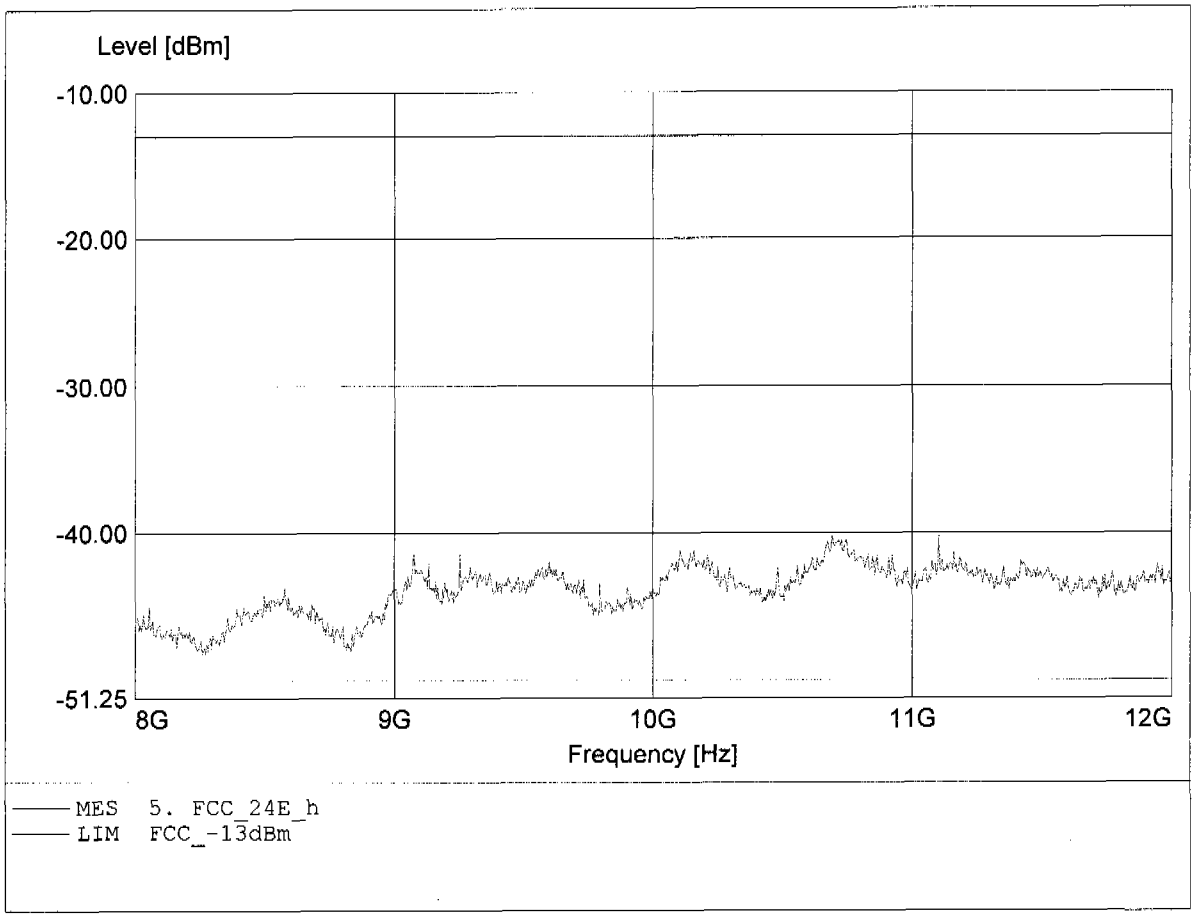
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	661
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 9.253GHz, Pmax: -33.57dBm, RBW: 1MHz



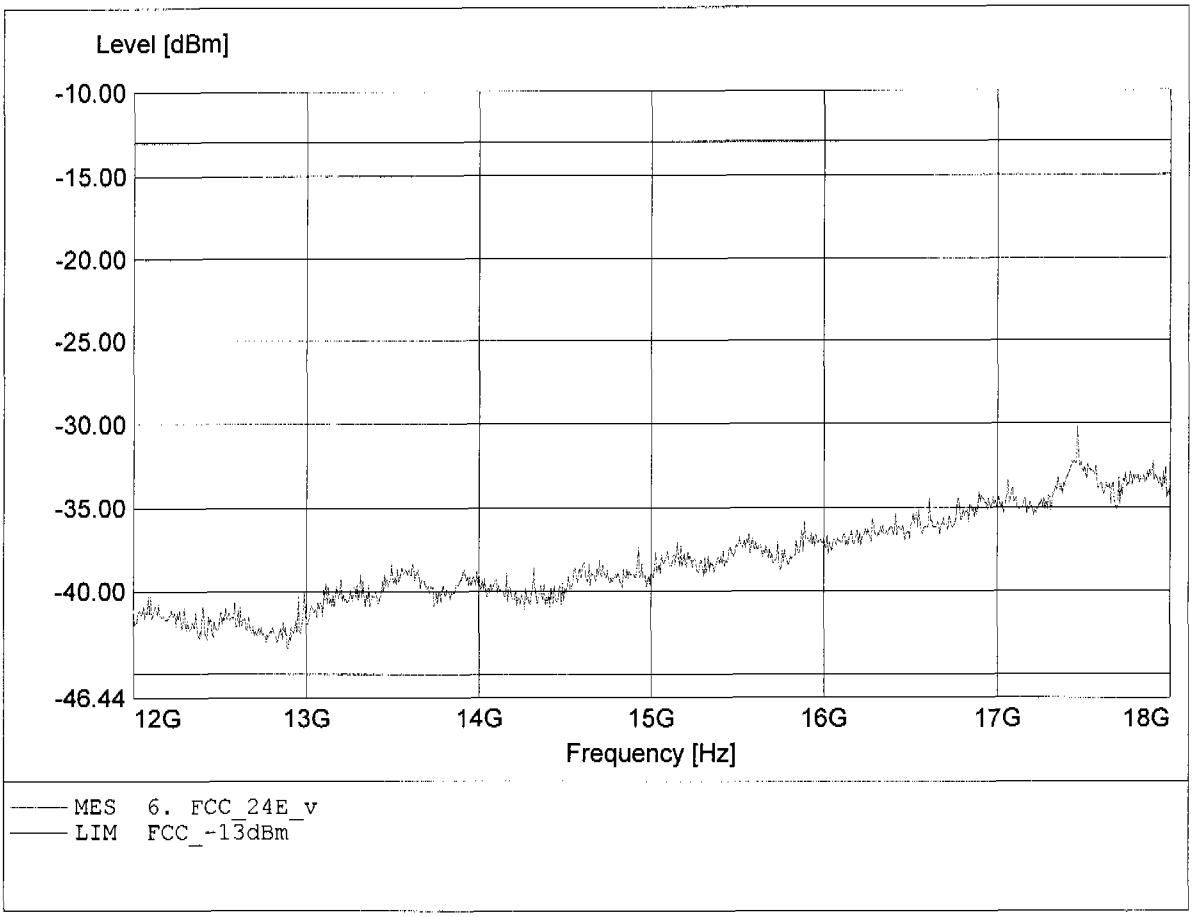
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	661
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 10.693GHz, Pmax: -40.14dBm, RBW: 1MHz



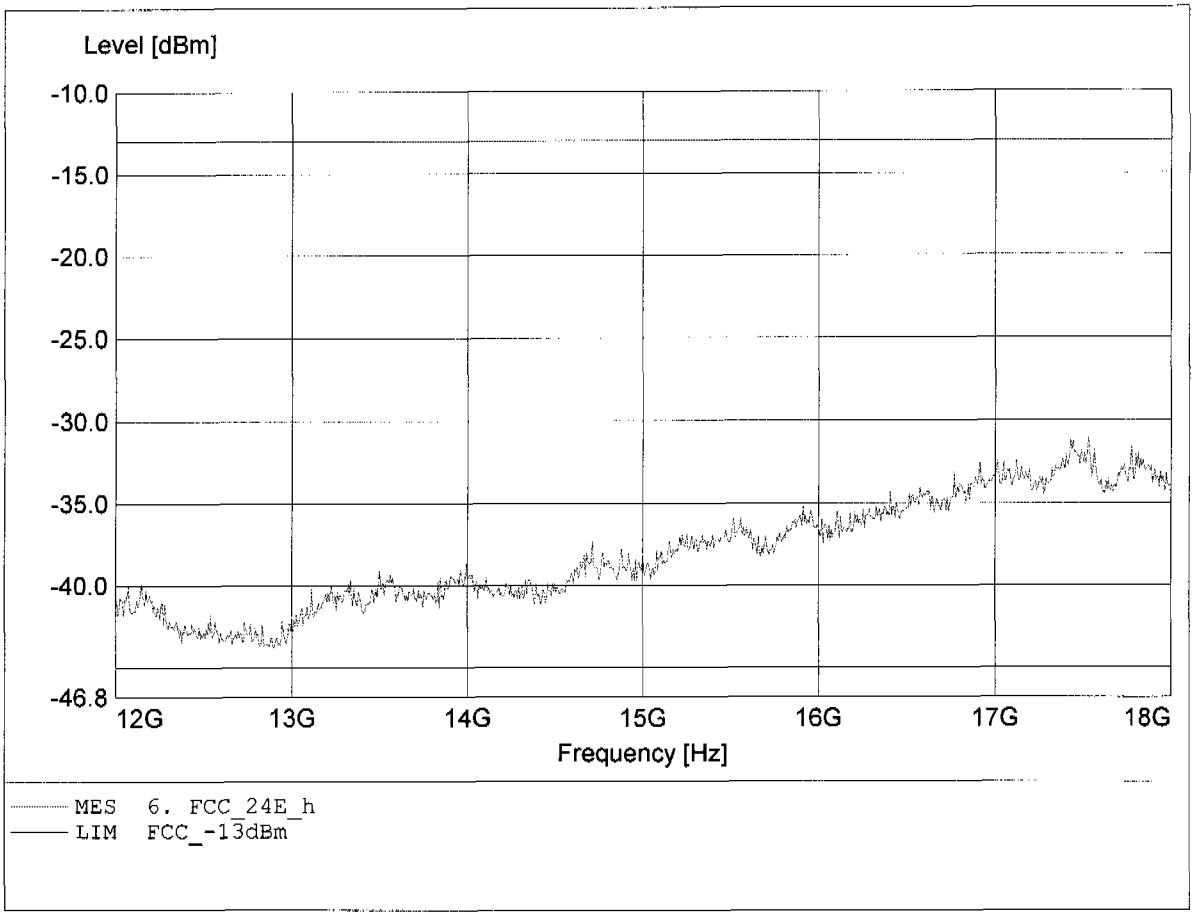
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	661
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 17.460GHz, Pmax: -30.14dBm, RBW: 1MHz



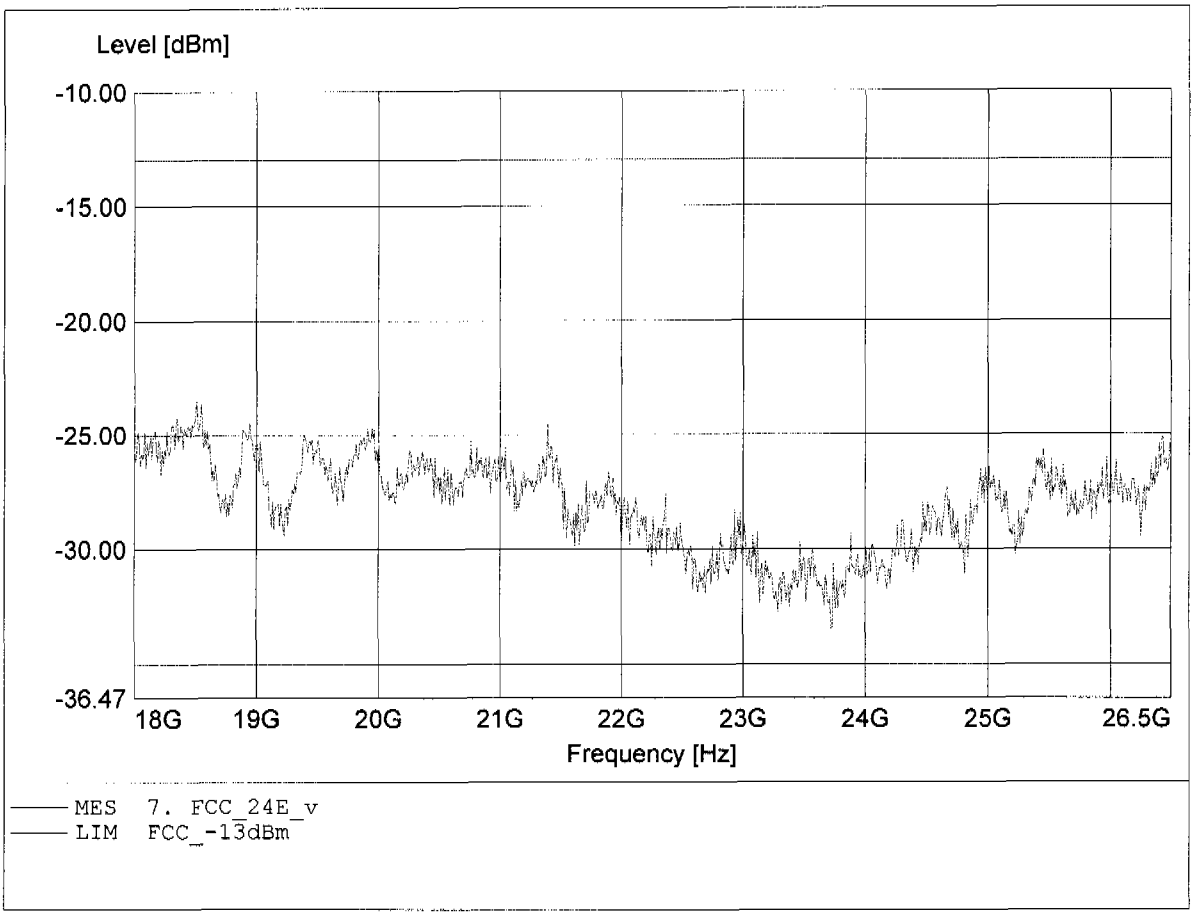
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	661
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, ampl.+HP.
Comment 2:	Freq: 17.527GHz, Pmax: -31.04dBm, RBW: 1MHz



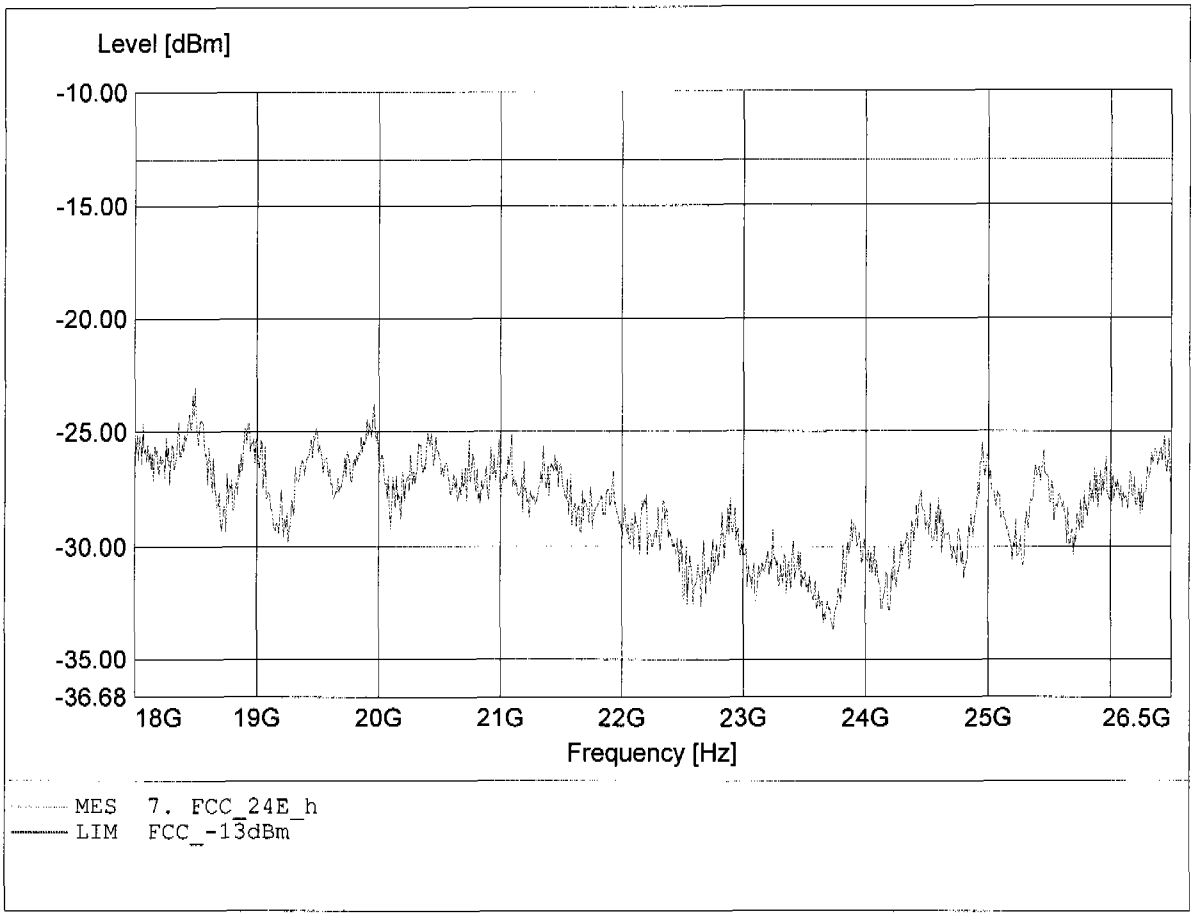
Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	661
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, amplif.
Comment 2:	Freq: 18.510GHz, Pmax: -23.47dBm, RBW: 1MHz



Radiated Emissions Tx
FCC RULES PART 24 SUBPART E

Applicant:	FW Dabendorf
EUT / Model:	Compenser 850 / 1900 GSM // MC3000NA
Channel:	661
Test Site / Operator:	ETS / Mr. Pfeufer
Temperature/ Voltage:	23°C / 12.0 VDC external
Test Specification:	according to §24.238
Comment 1:	Dist.: 3m, Ant.: HL025, amplif.
Comment 2:	Freq: 18.491GHz, Pmax: -23.08dBm, RBW: 1MHz



Appendix K

Line Conducted Emissions

Appendix L

Frequency Stability vs. Temperature

Appendix M

Frequency Stability vs. Voltage