

Appendix B

Peak Output Power



Ref Lvl
25 dBm

Marker 1 [T1]

-1.24 dBm

2.40217535 GHz

RBW

1 MHz

VBW

1 MHz

SWT

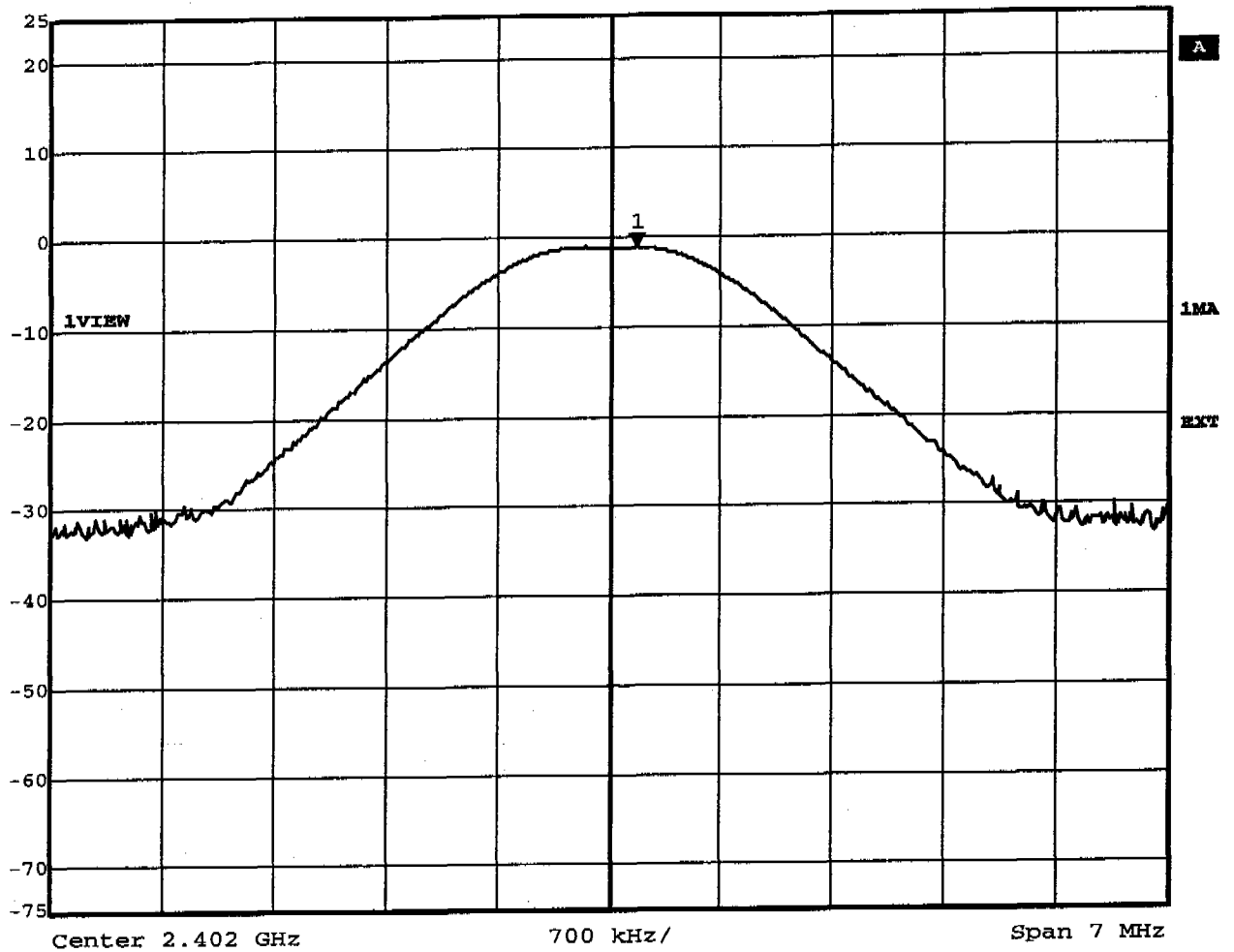
5 ms

RF Att

50 dB

Unit

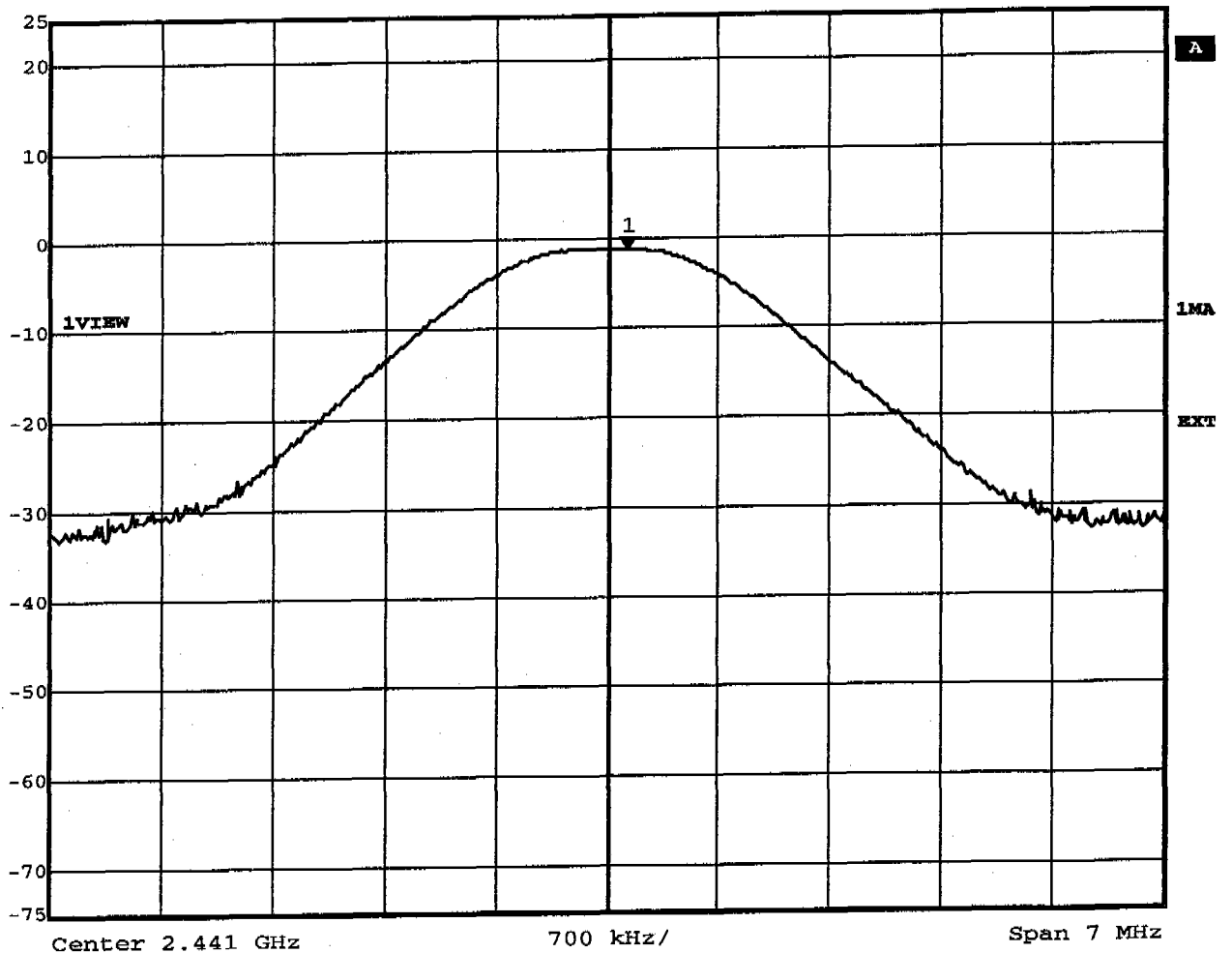
dBm



Title: Peak Output Power conducted Ch.: 0
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 12.AUG.2003 13:44:47



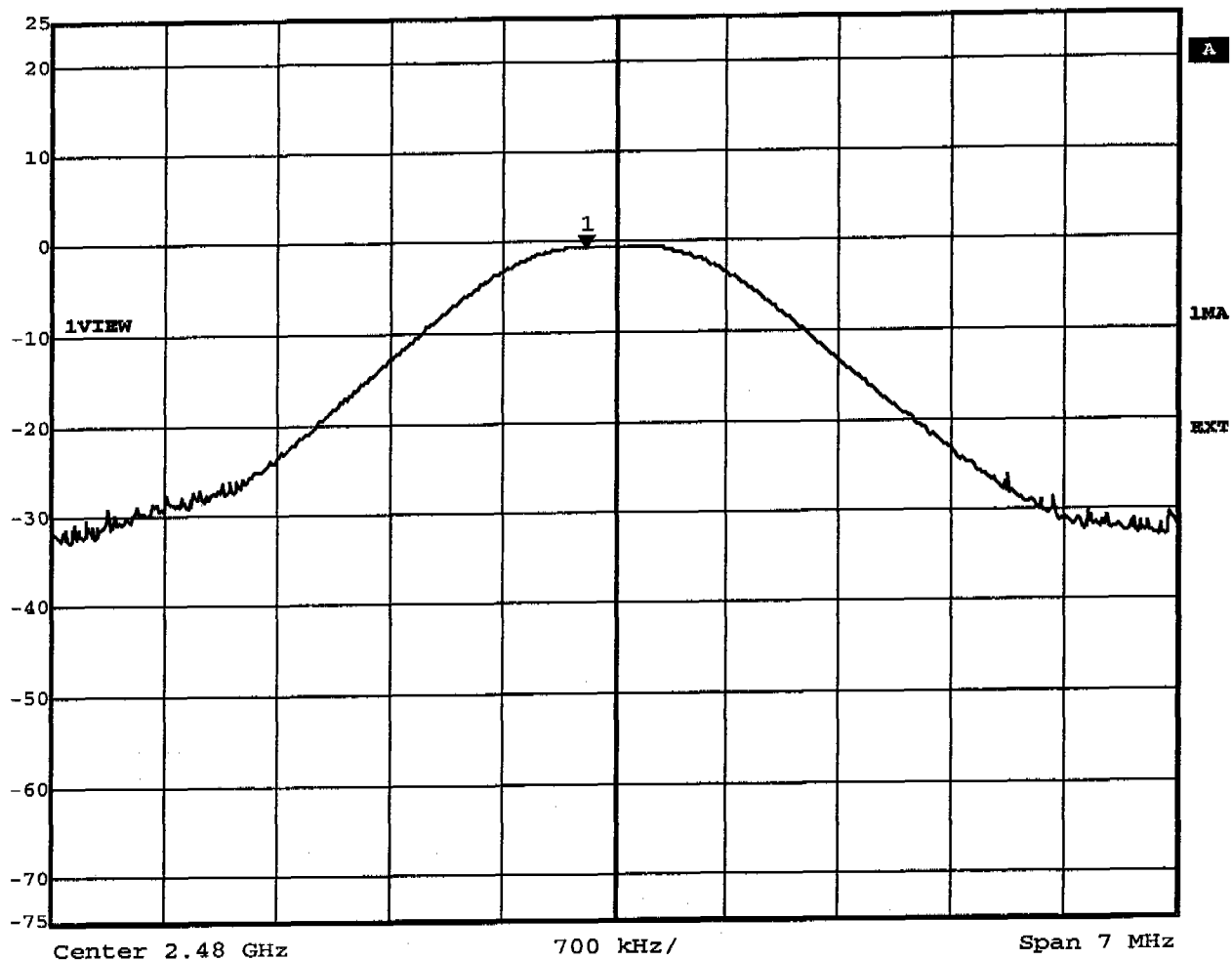
Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	50 dB
25 dBm	-1.35 dBm	VBW	1 MHz		
	2.44113327 GHz	SWT	5 ms	Unit	dBm



Title: Peak Output Power conducted Ch.: 39
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 12.AUG.2003 13:47:42



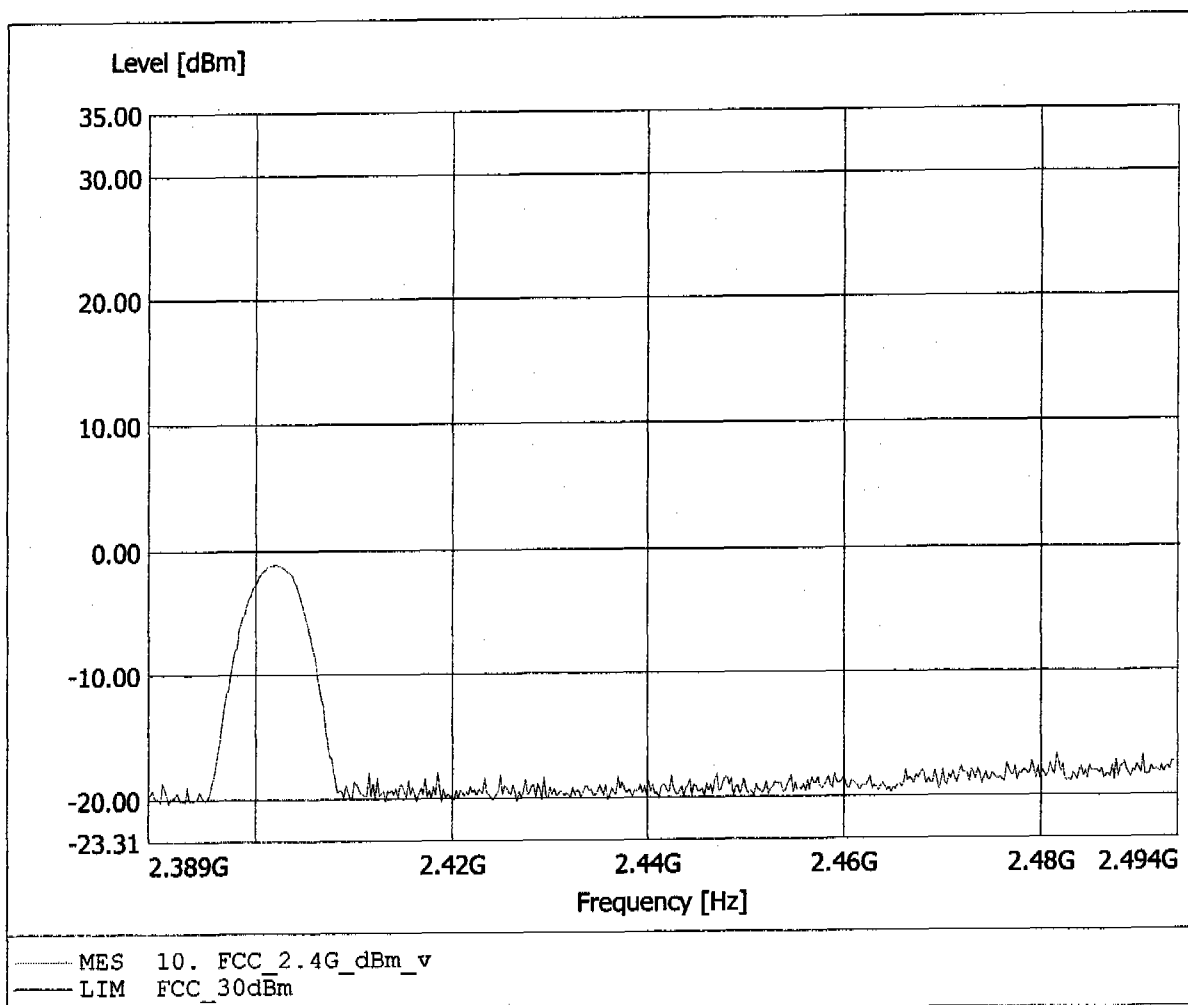
Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	50 dB
25 dBm	-0.75 dBm	VBW	1 MHz		
	2.47982465 GHz	SWT	5 ms	Unit	dBm



Title: Peak Output Power conducted Ch.: 78
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 12.AUG.2003 13:49:11

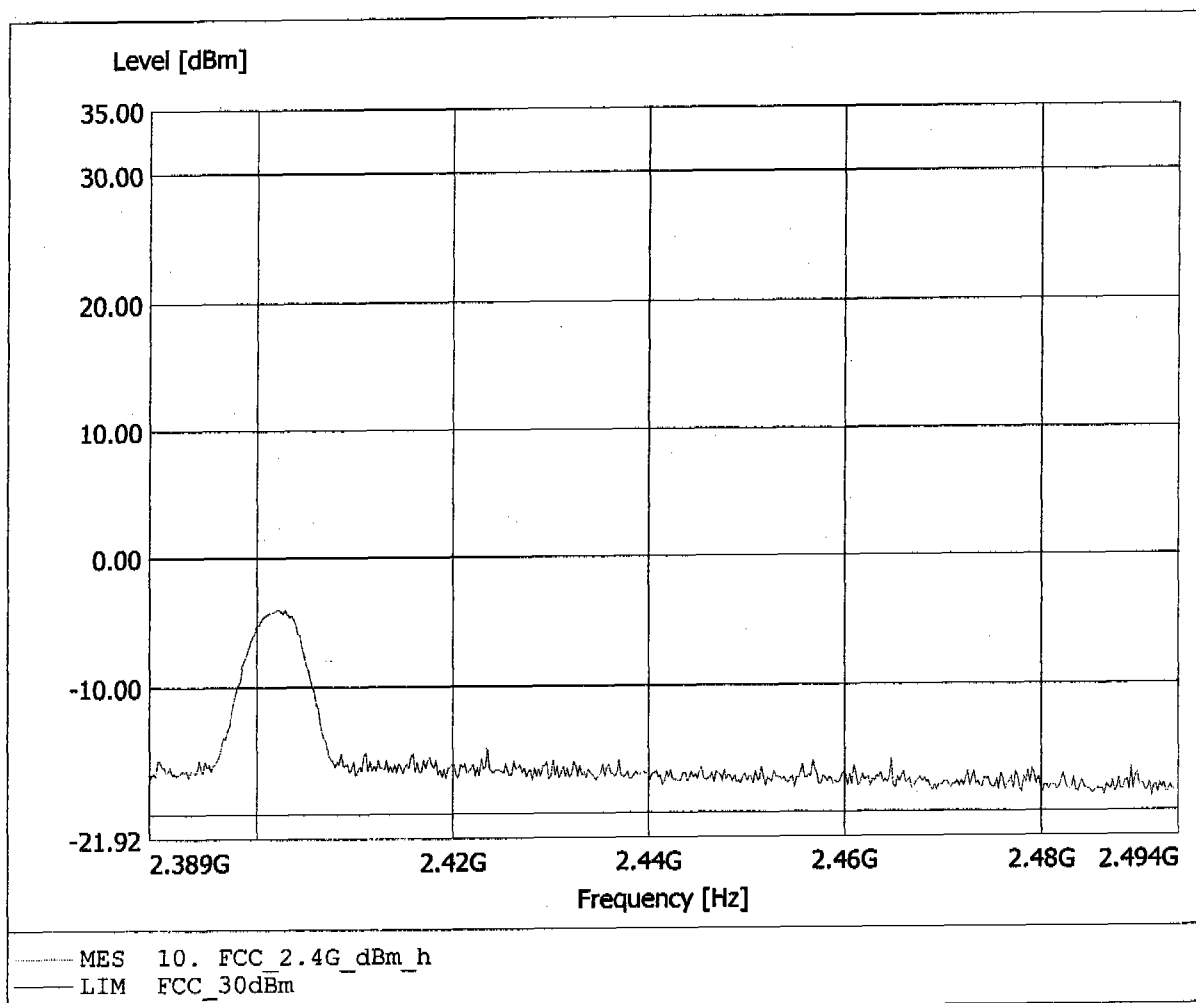
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: -1.06dBm, RBW: 5MHz



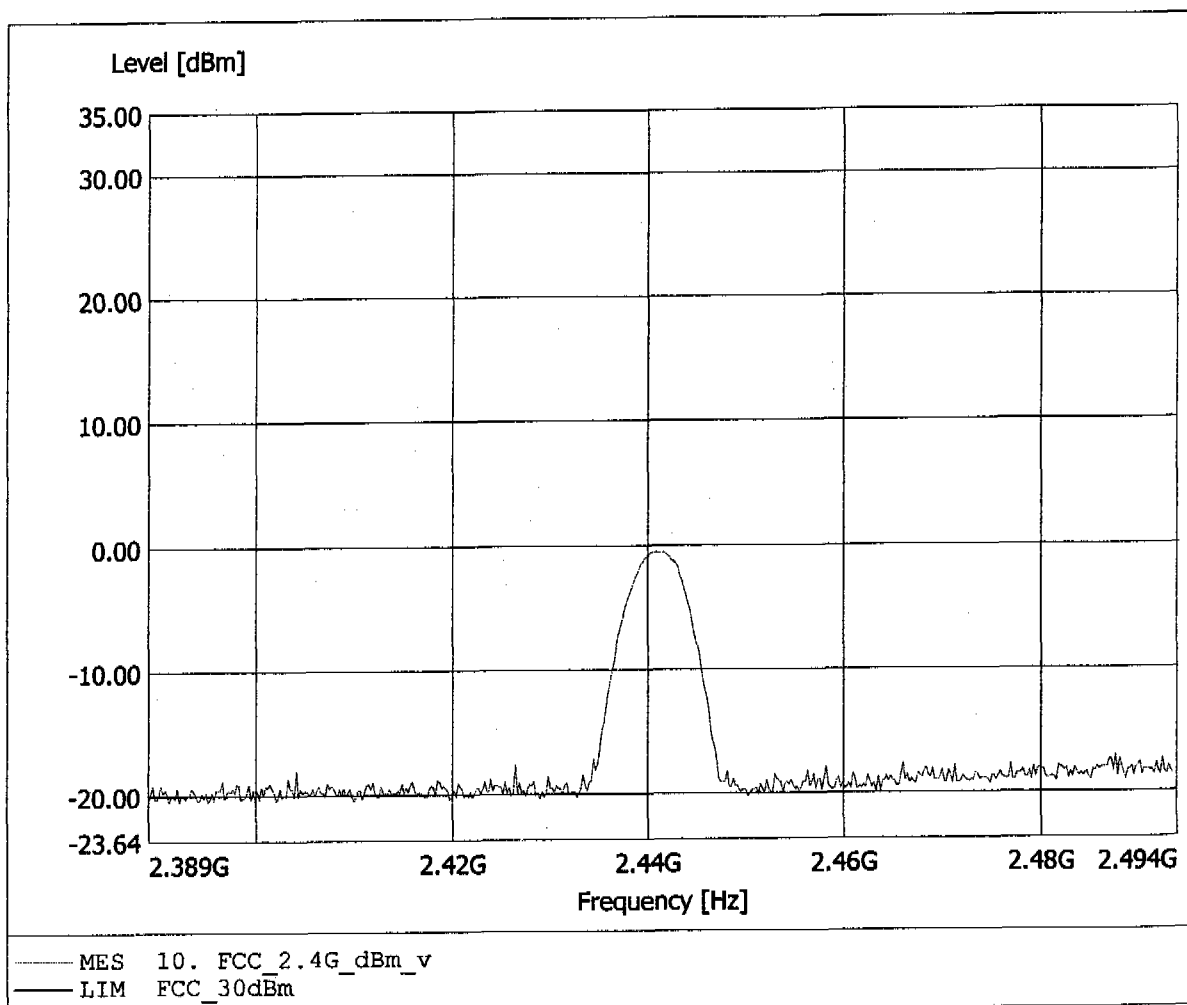
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: -3.98dBm, RBW: 5MHz



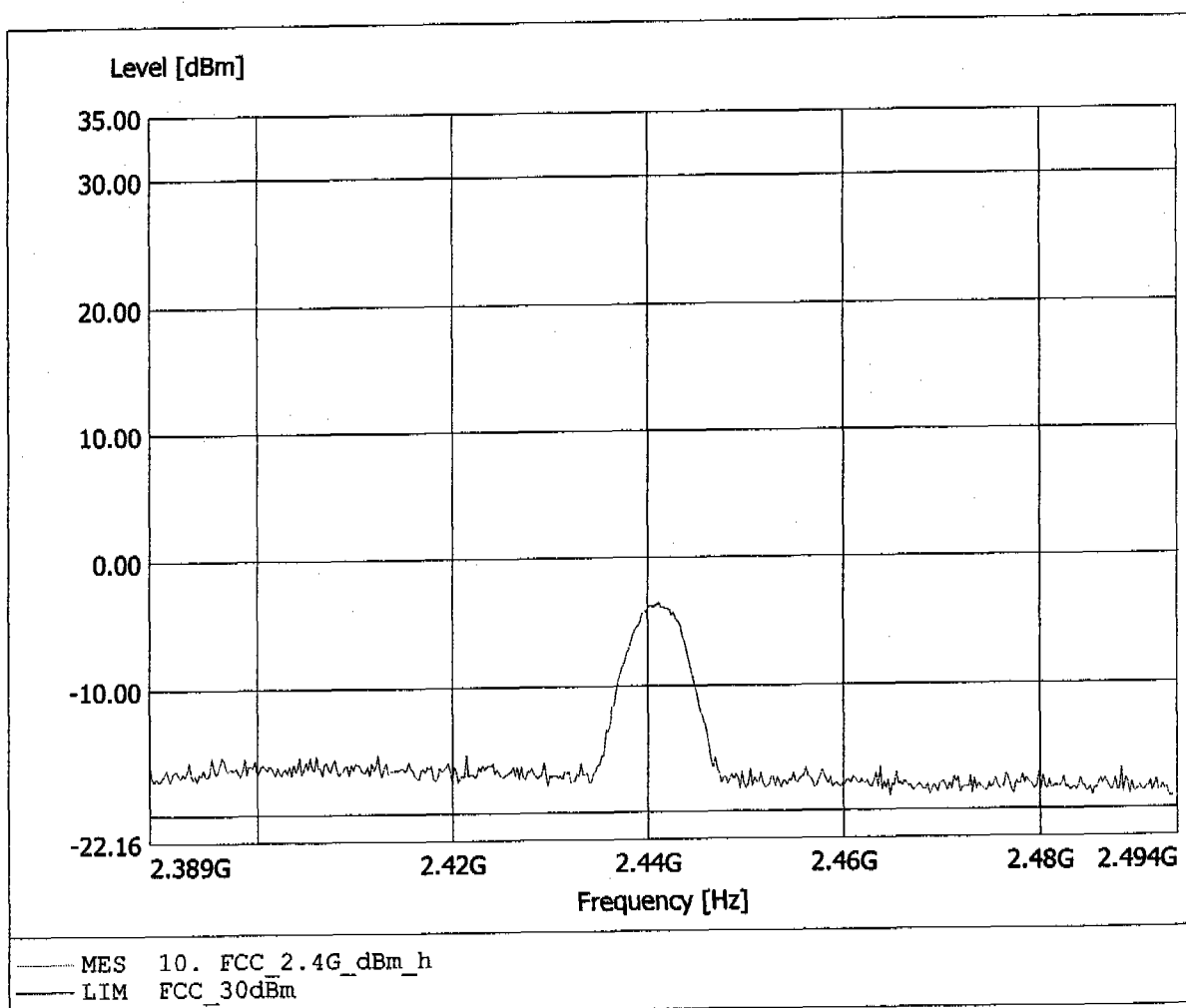
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.442GHz, Pmax: -0.52dBm, RBW: 5MHz



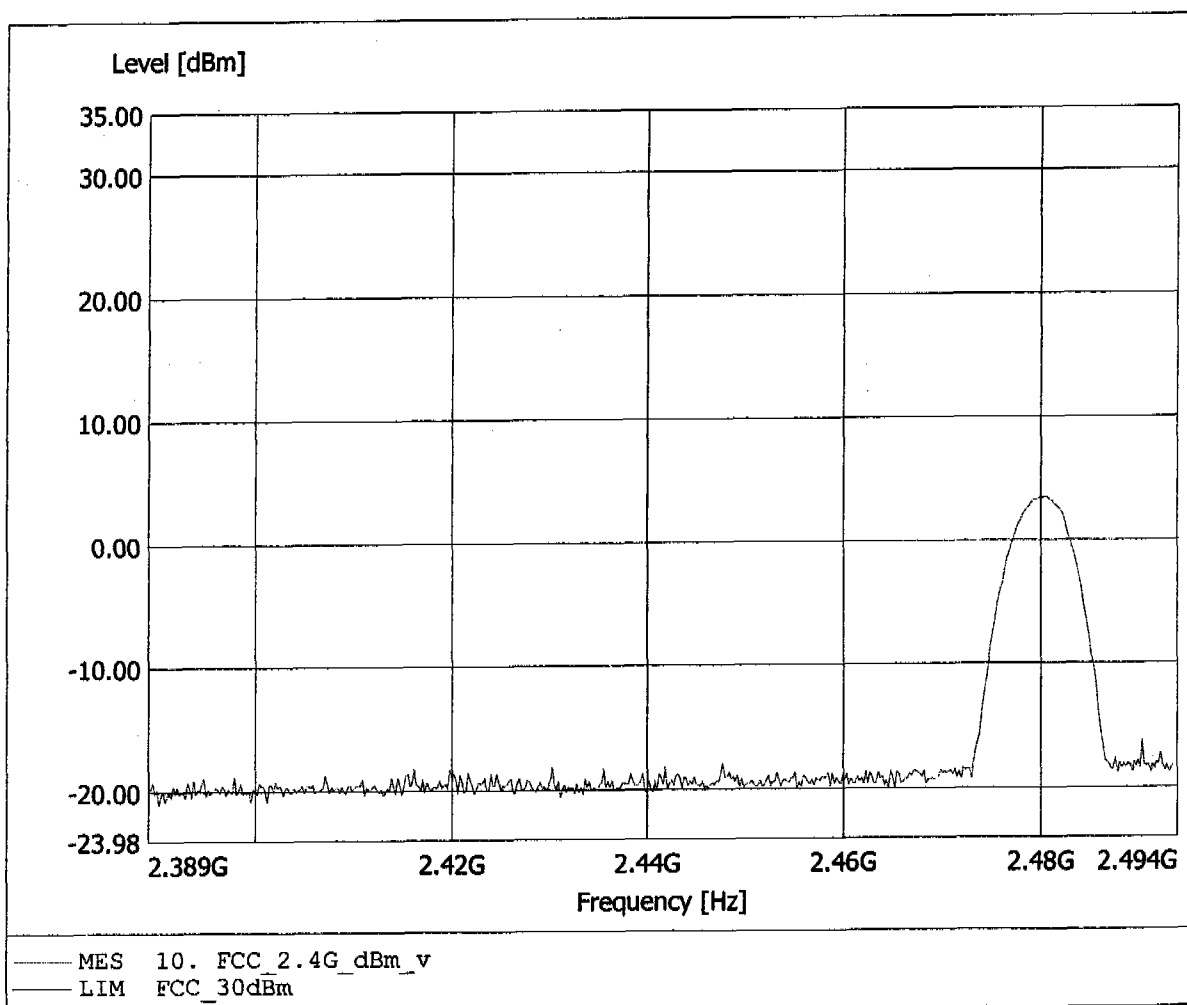
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Pmax: -3.52dBm, RBW: 5MHz



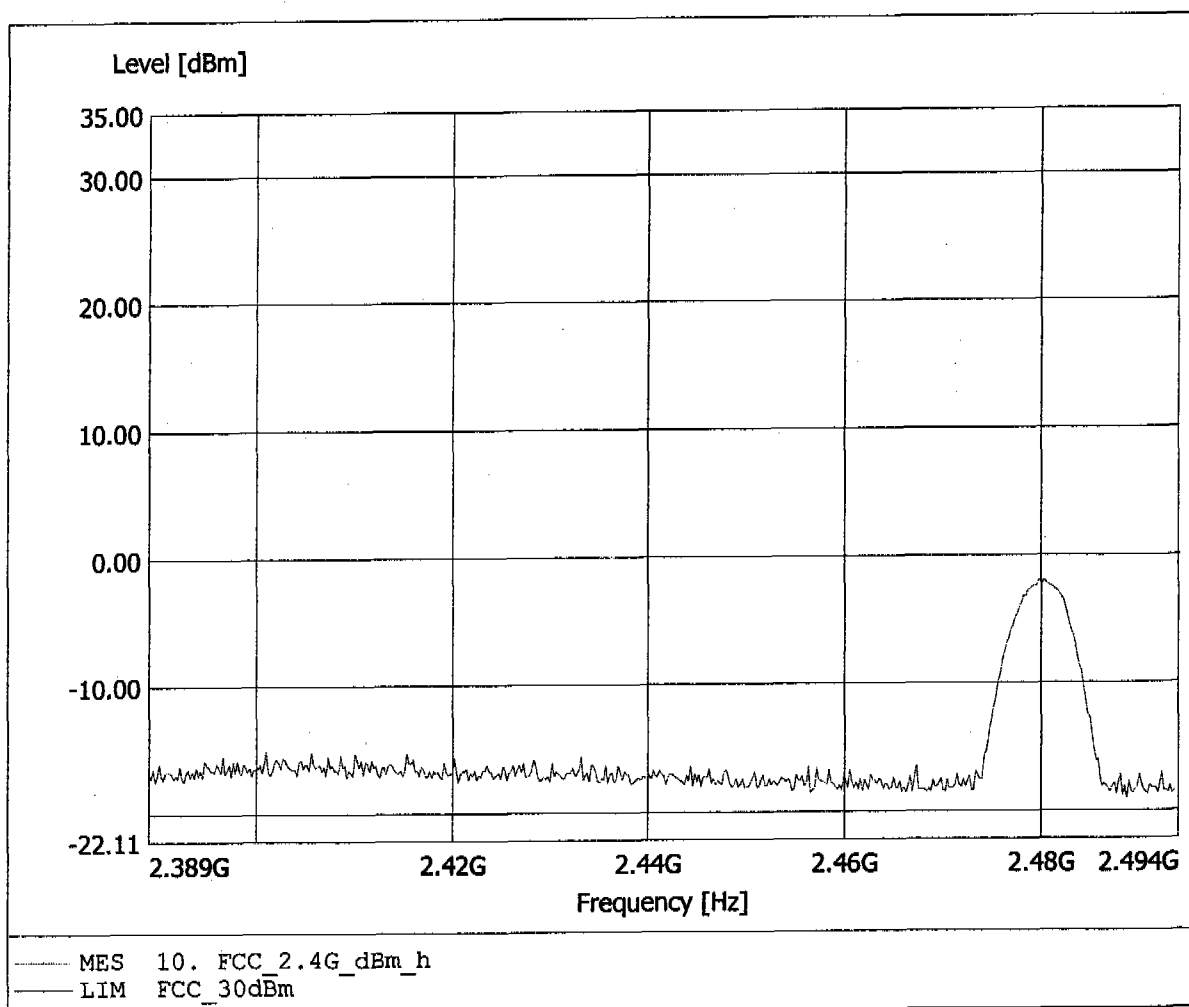
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.481GHz, Pmax: 3.51dBm, RBW: 5MHz



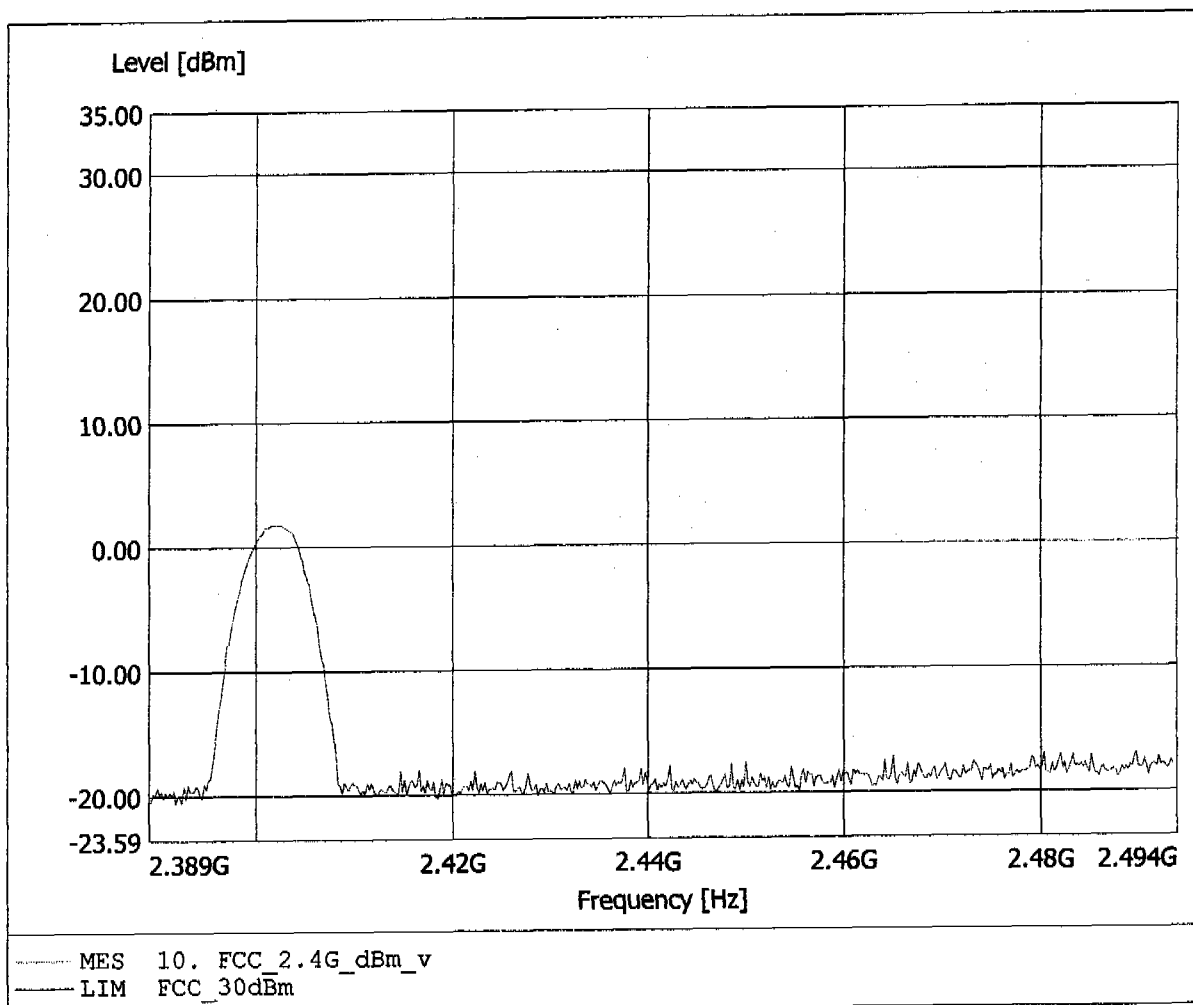
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Pmax: -1.90dBm, RBW: 5MHz



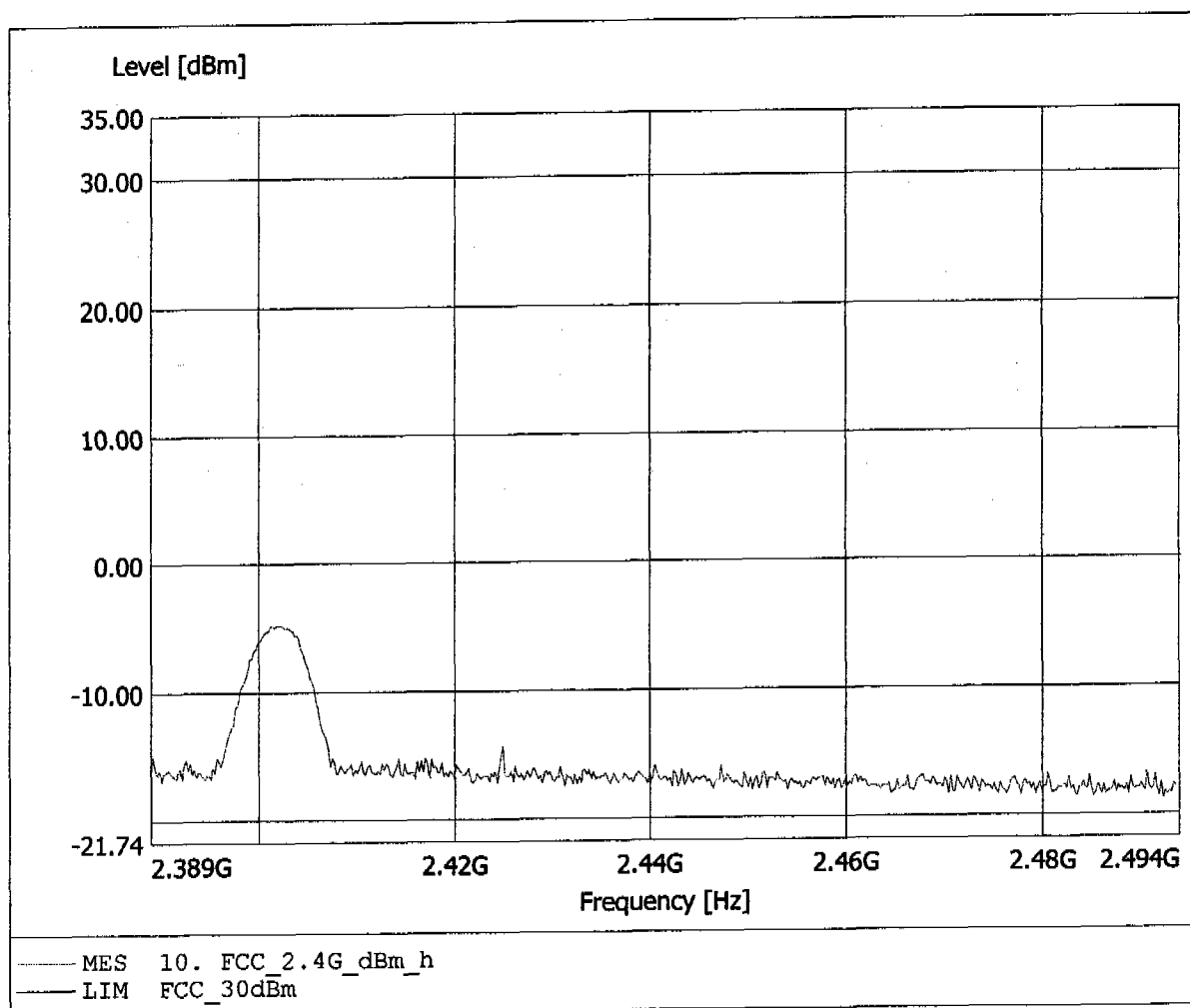
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / Pmax / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical Inc.
Operating Condition: Tnom: 23°C / Unom: 120 V-15% AC (AC/DC adaptor only)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: 1.83dBm, RBW: 5MHz



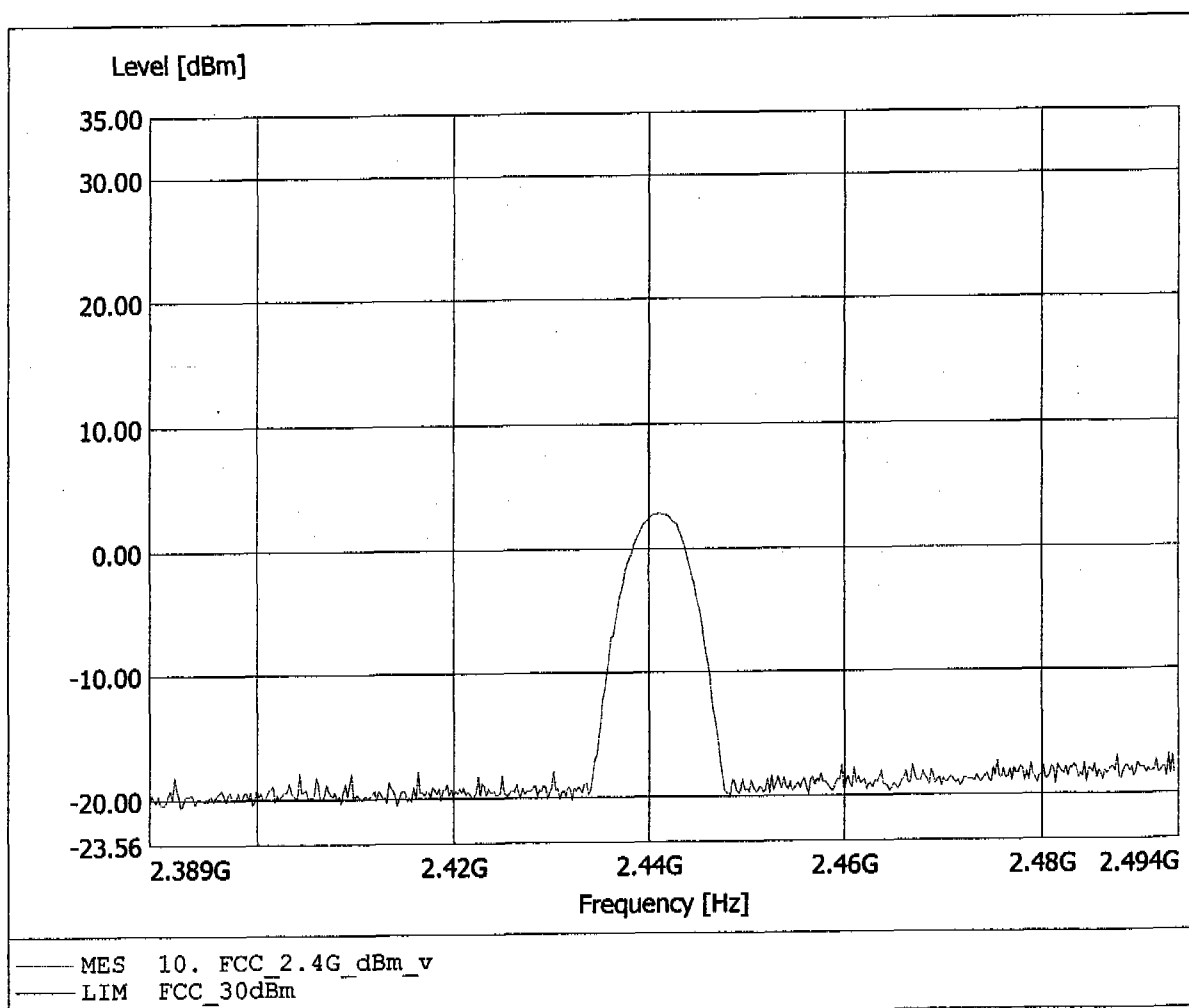
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / Pmax / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical Inc.
Operating Condition: Tnom: 23°C / Unom: 120 V-15% AC (AC/DC adaptor only)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: -4.80dBm, RBW: 5MHz



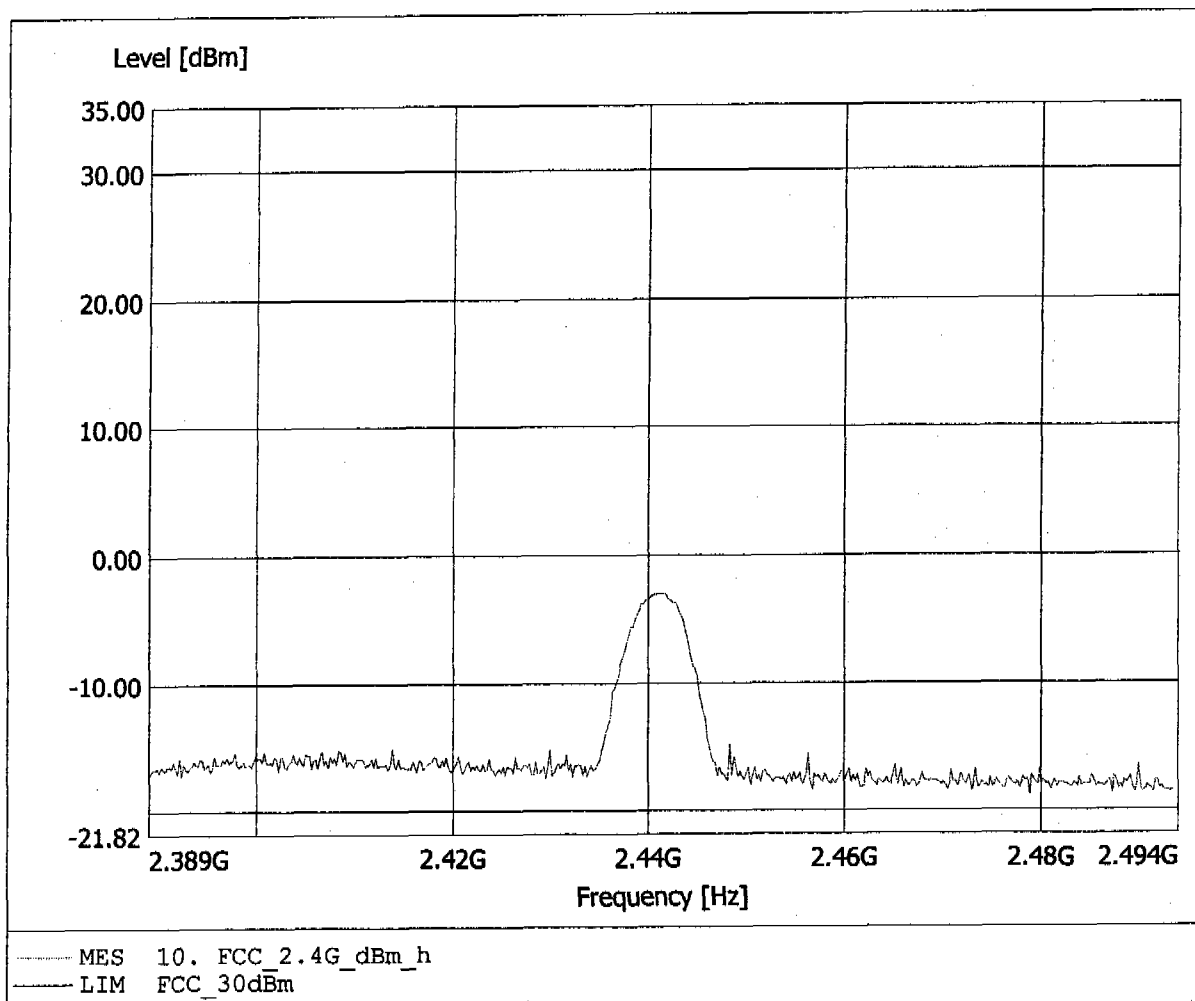
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / Pmax / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical Inc.
Operating Condition: Tnom: 23°C / Unom: 120 V-15% AC (AC/DC adaptor only)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Pmax: 2.85dBm, RBW: 5MHz



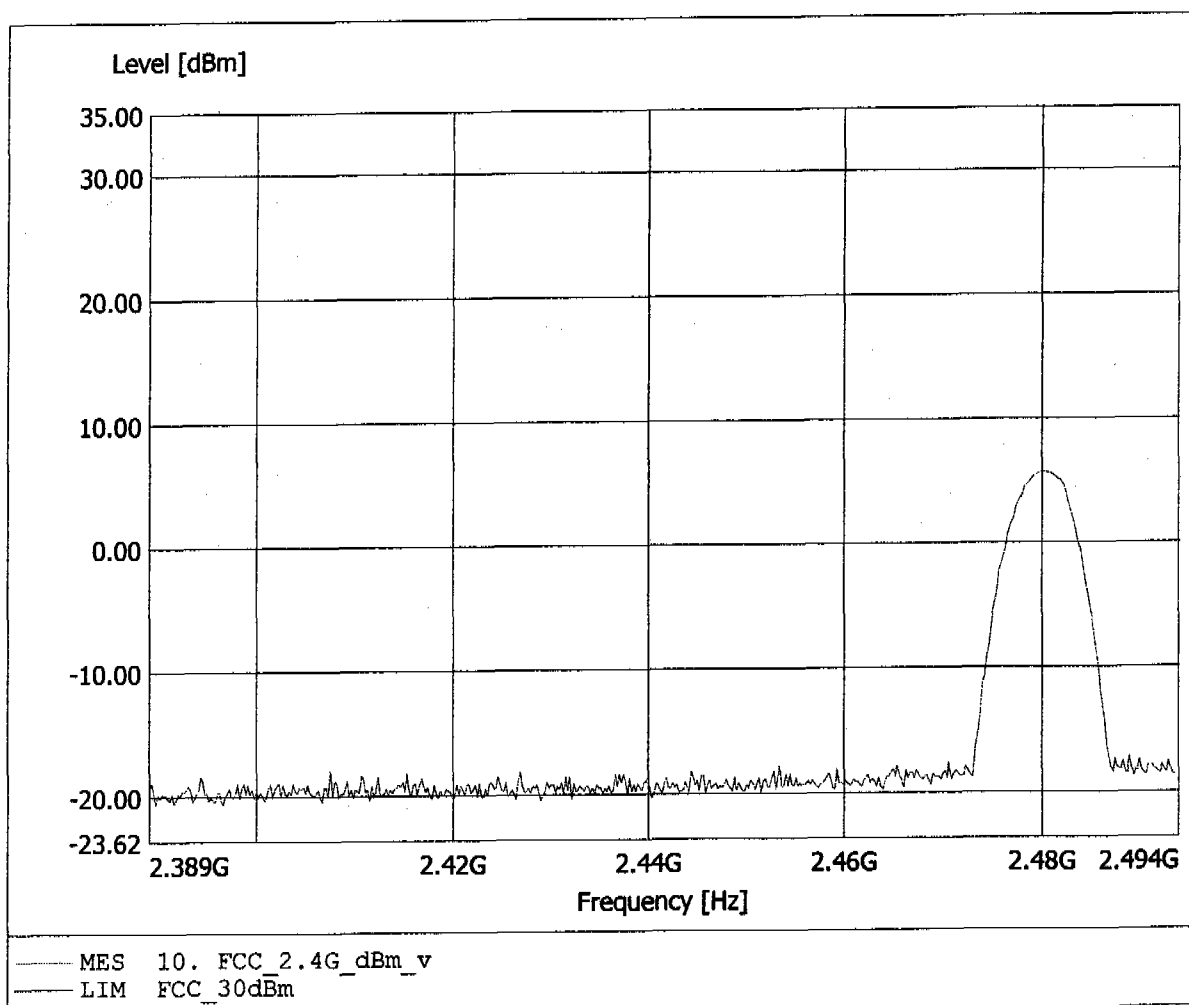
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / Pmax / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical Inc.
Operating Condition: Tnom: 23°C / Unom: 120 V-15% AC (AC/DC adaptor only)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.442GHz, Pmax: -2.95dBm, RBW: 5MHz



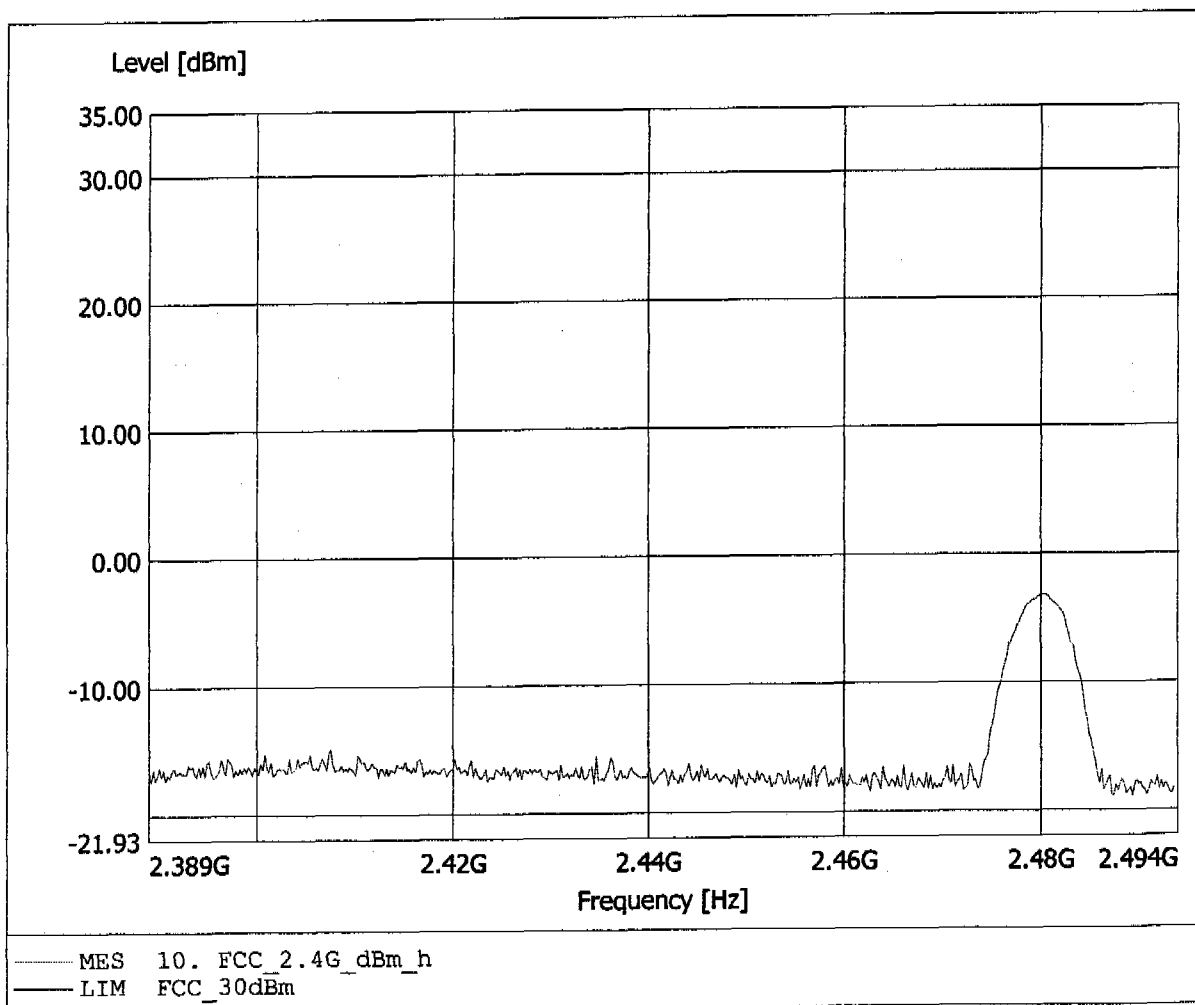
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / Pmax / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical Inc.
Operating Condition: Tnom: 23°C / Unom: 120 V-15% AC (AC/DC adaptor only)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Pmax: 5.69dBm, RBW: 5MHz



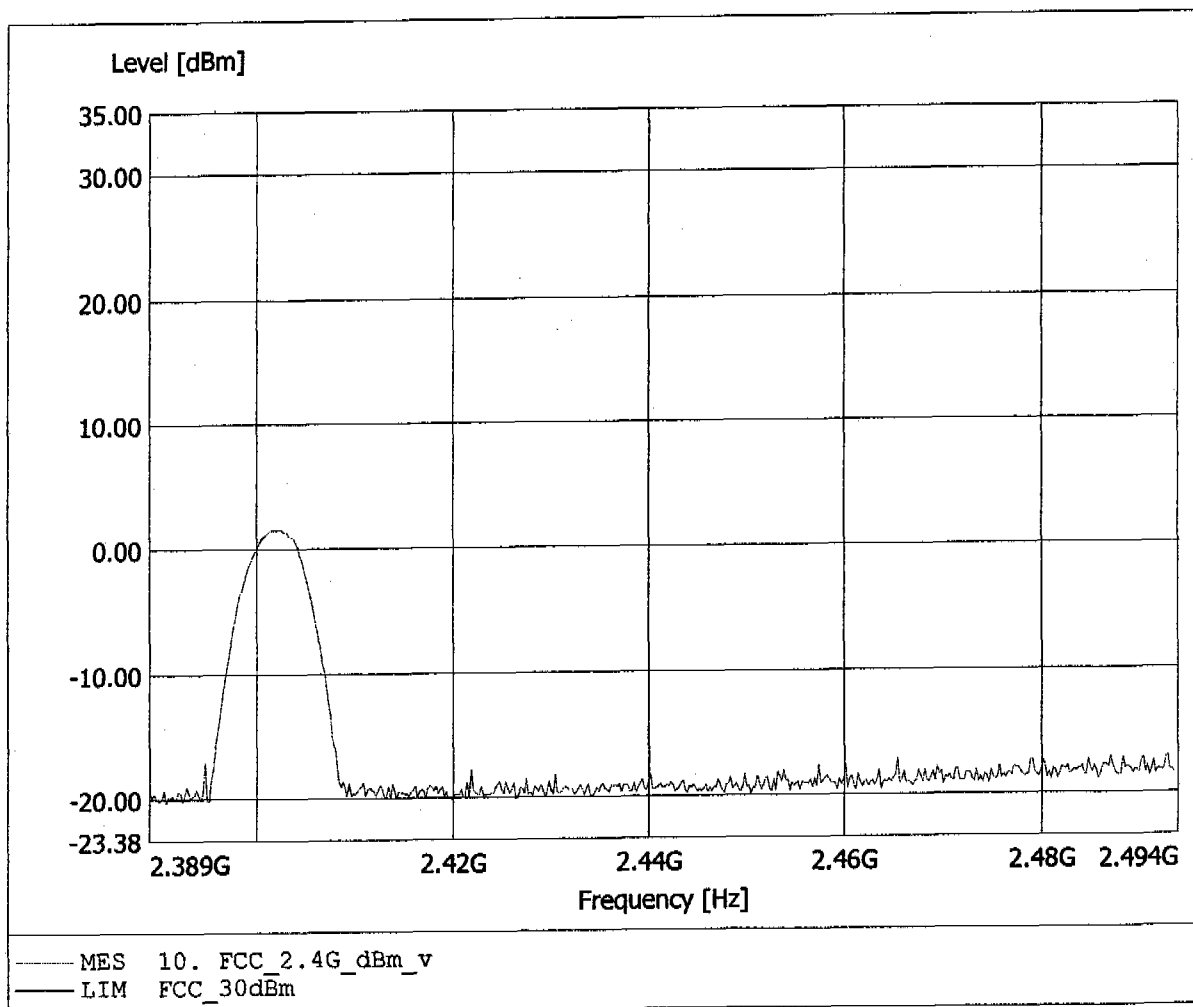
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / Pmax / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical Inc.
Operating Condition: Tnom: 23°C / Unom: 120 V-15% AC (AC/DC adaptor only)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Pmax: -3.21dBm, RBW: 5MHz



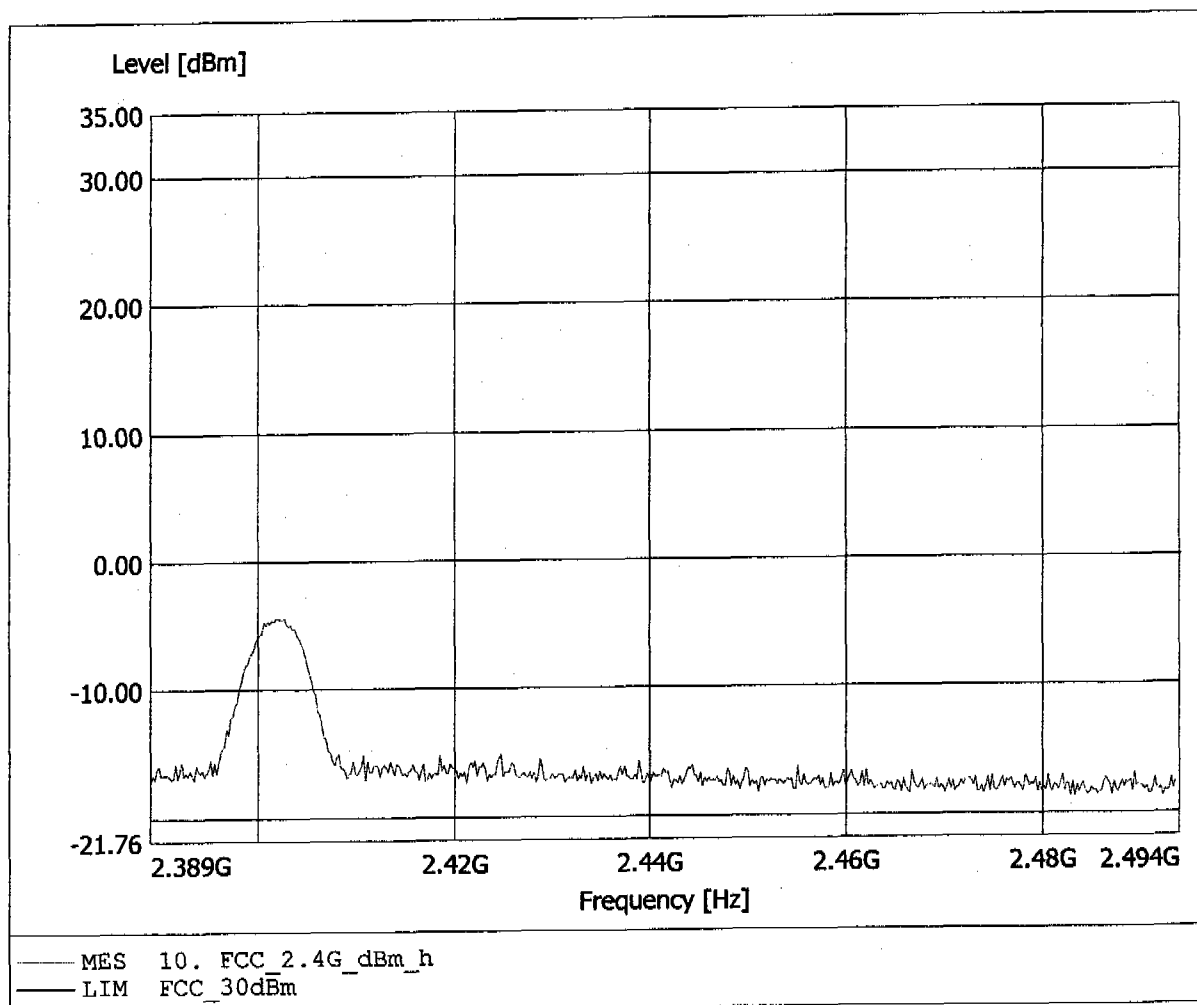
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / Pmax / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical Inc.
Operating Condition: Tnom: 23°C / Unom: 120 V+15% AC (AC/DC adaptor only)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: 1.52dBm, RBW: 5MHz



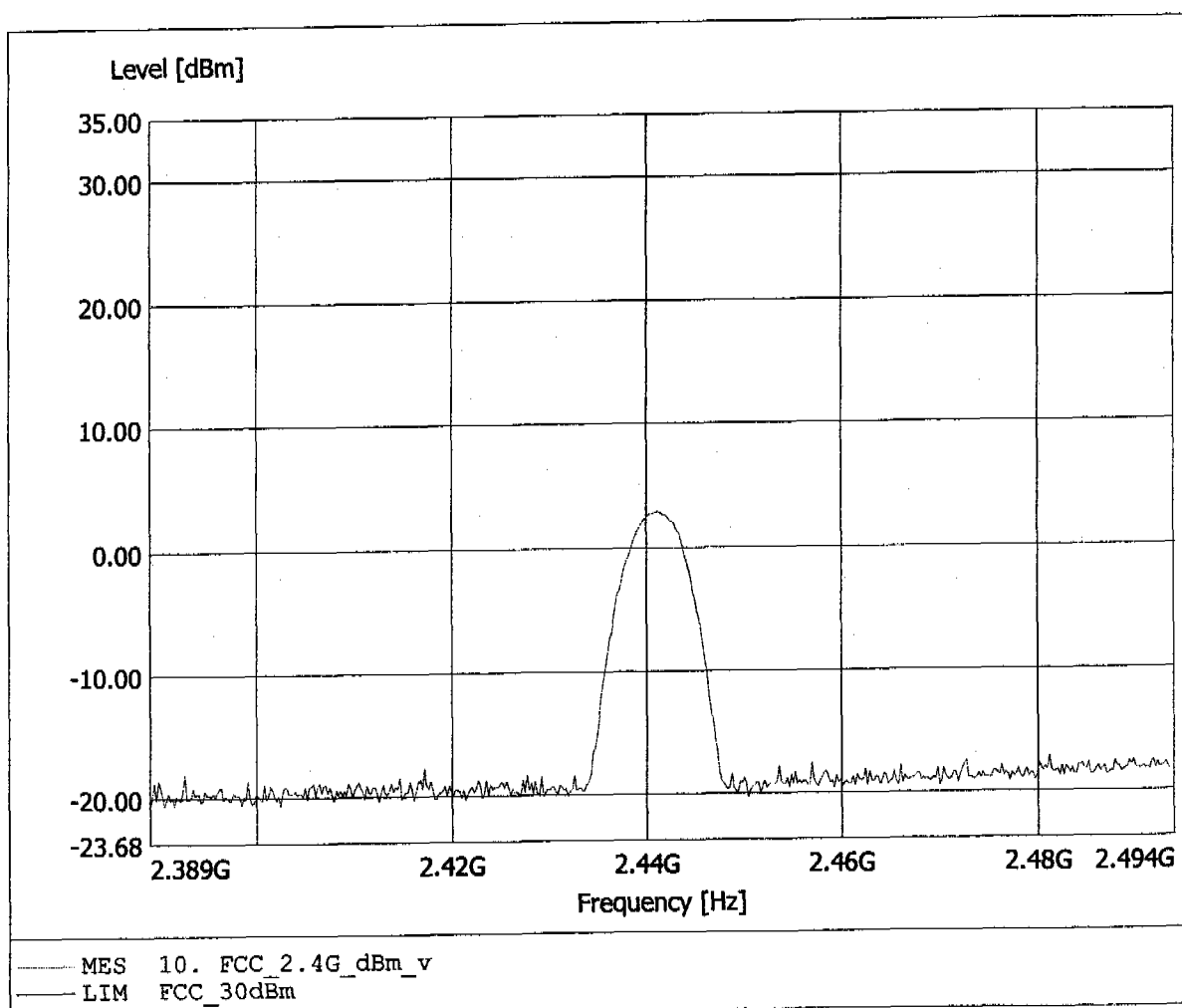
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / Pmax / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical Inc.
Operating Condition: Tnom: 23°C / Unom: 120 V+15% AC (AC/DC adaptor only)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to S15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: -4.42dBm, RBW: 5MHz



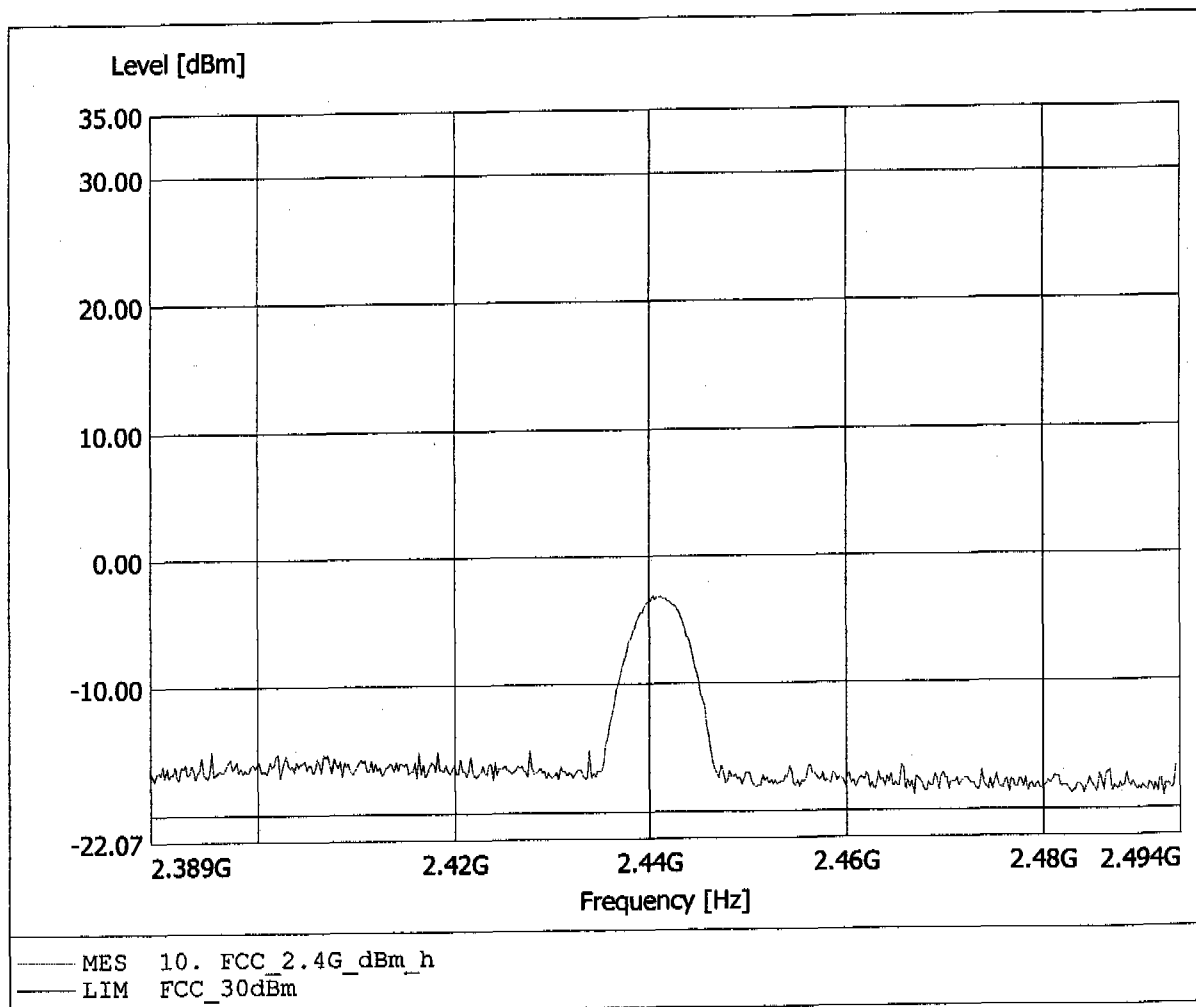
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / Pmax / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical Inc.
Operating Condition: Tnom: 23°C / Unom: 120 V+15% AC (AC/DC adaptor only)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Pmax: 2.92dBm, RBW: 5MHz



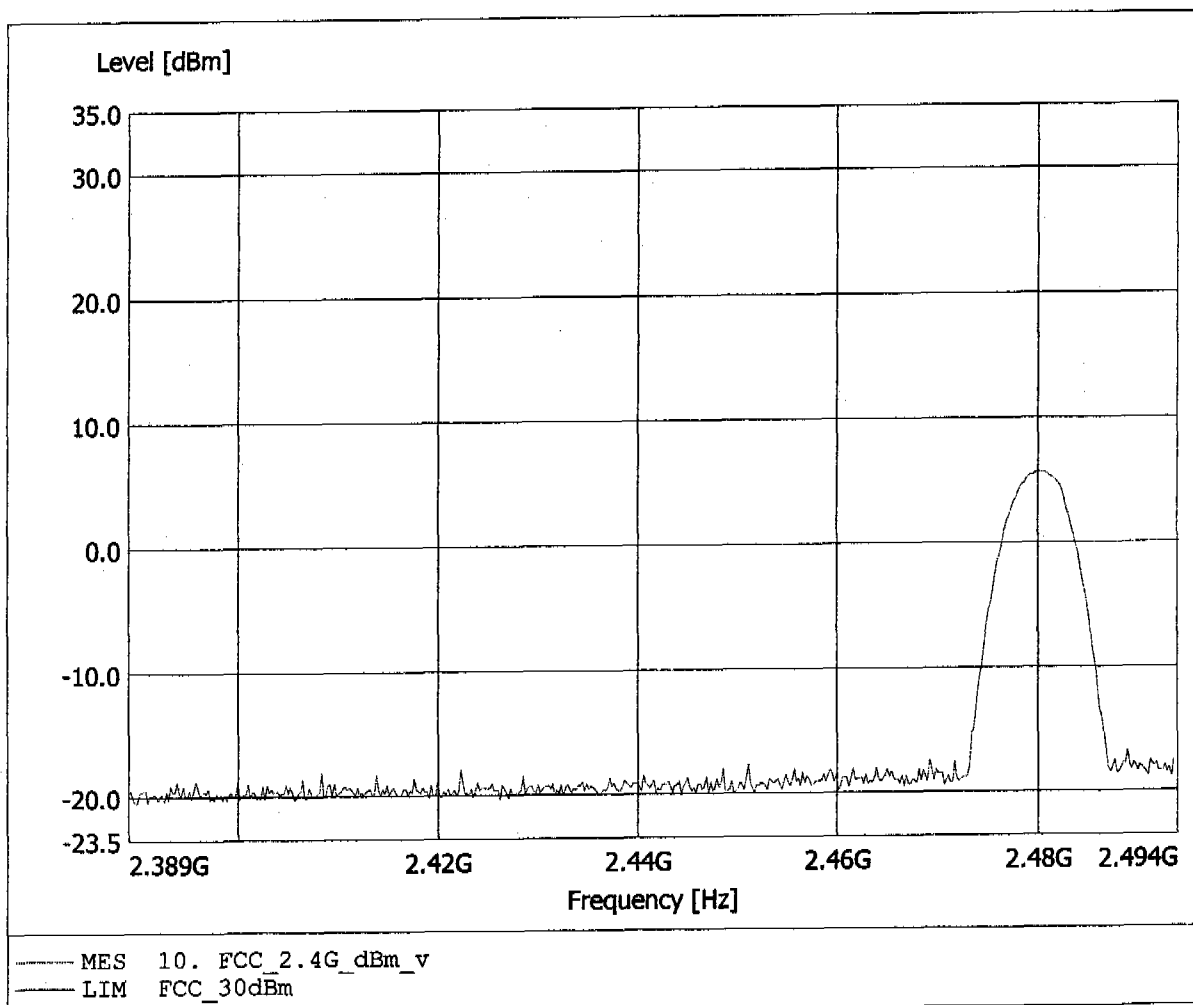
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / Pmax / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical Inc.
Operating Condition: Tnom: 23°C / Unom: 120 V+15% AC (AC/DC adaptor only)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.440GHz, Pmax: -3.12dBm, RBW: 5MHz



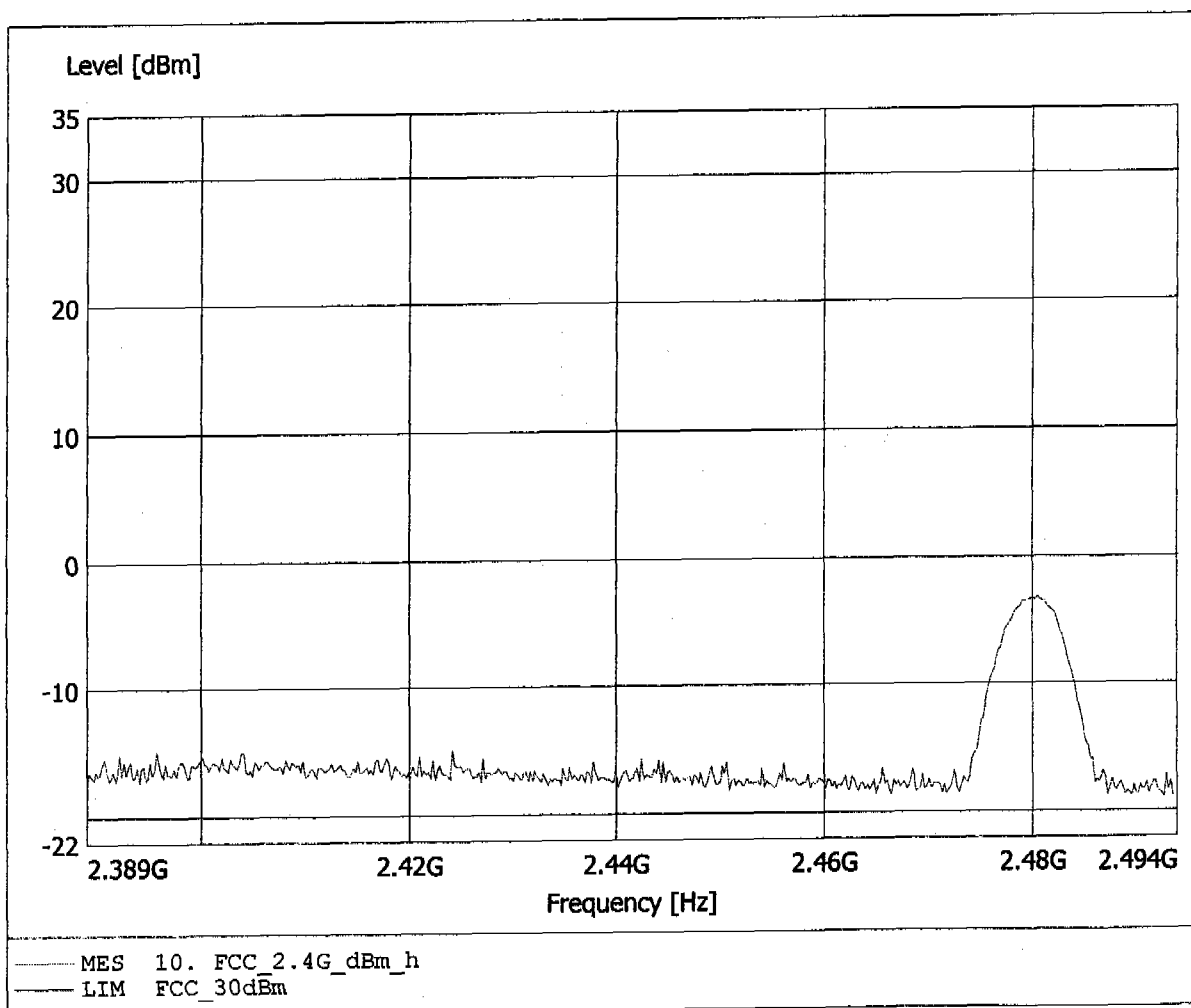
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / Pmax / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical Inc.
Operating Condition: Tnom: 23°C / Unom: 120 V+15% AC (AC/DC adaptor only)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Pmax: 5.68dBm, RBW: 5MHz



Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / Pmax / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical Inc.
Operating Condition: Tnom: 23°C / Unom: 120 V+15% AC (AC/DC adaptor only)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.481GHz, Pmax: -3.16dBm, RBW: 5MHz

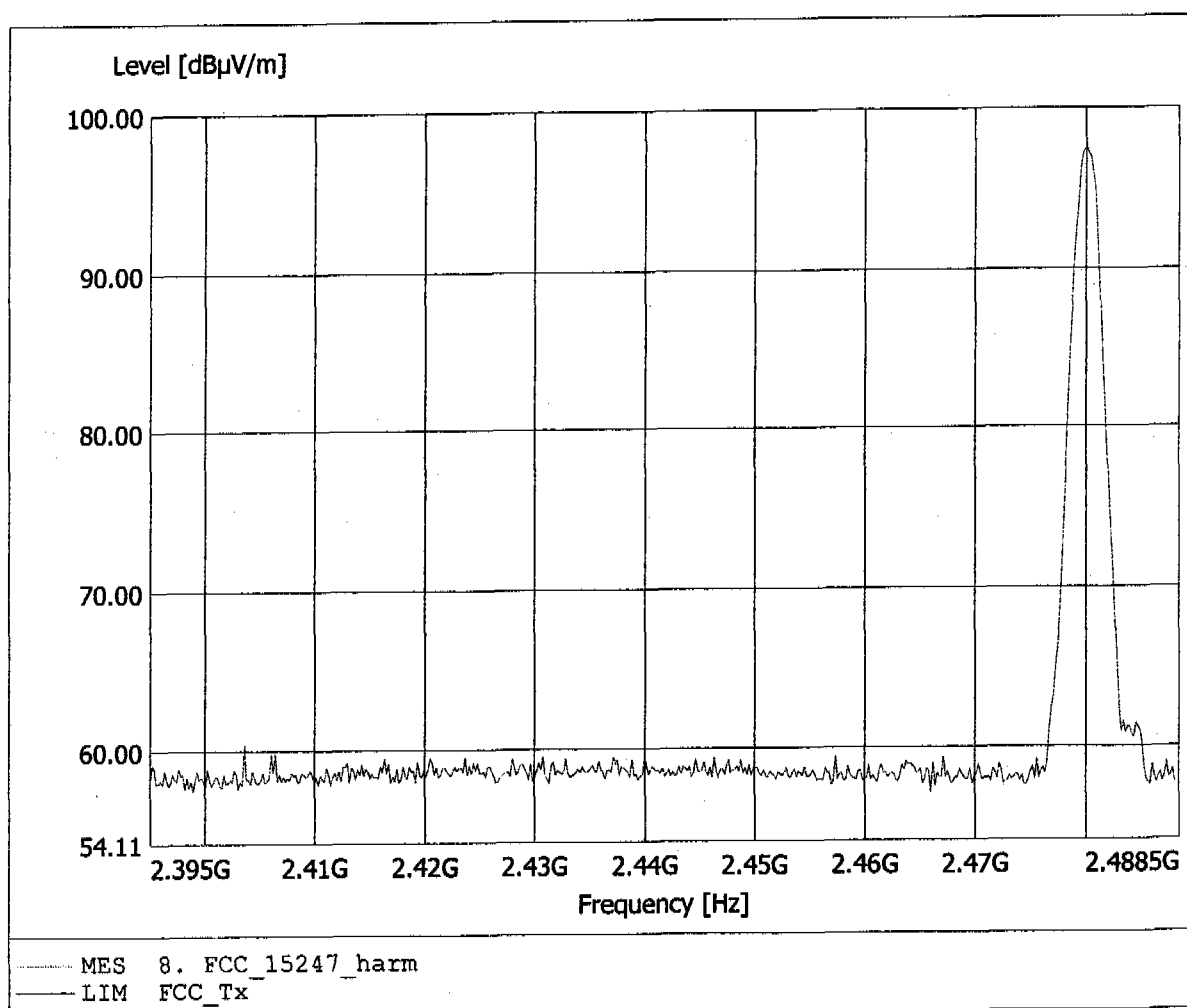


Appendix C

Spurious Emissions radiated - Transmitter operating

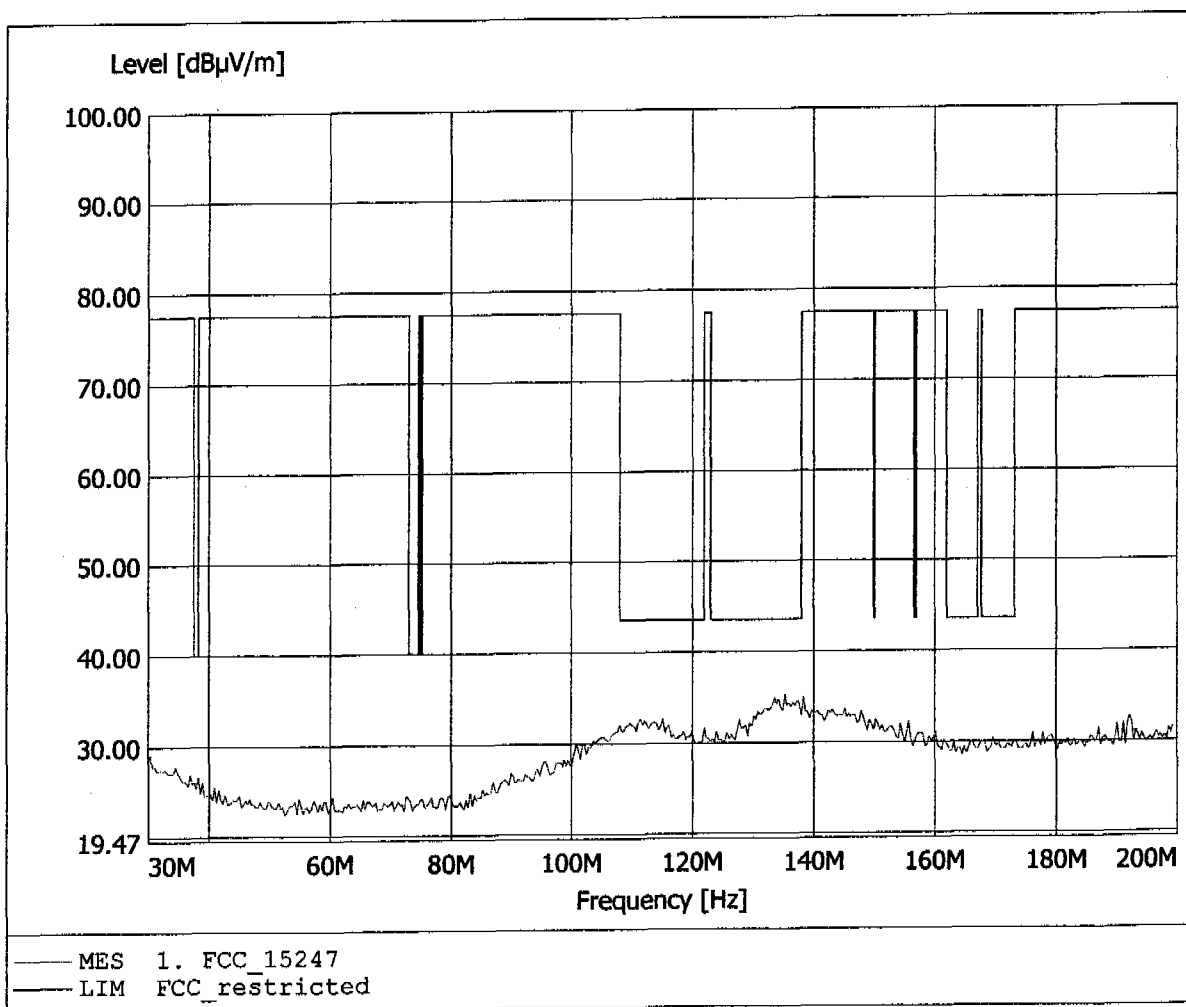
Carrier power (Field Strength)
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Emax: 97.51dBµV/m, RBW: 1MHz



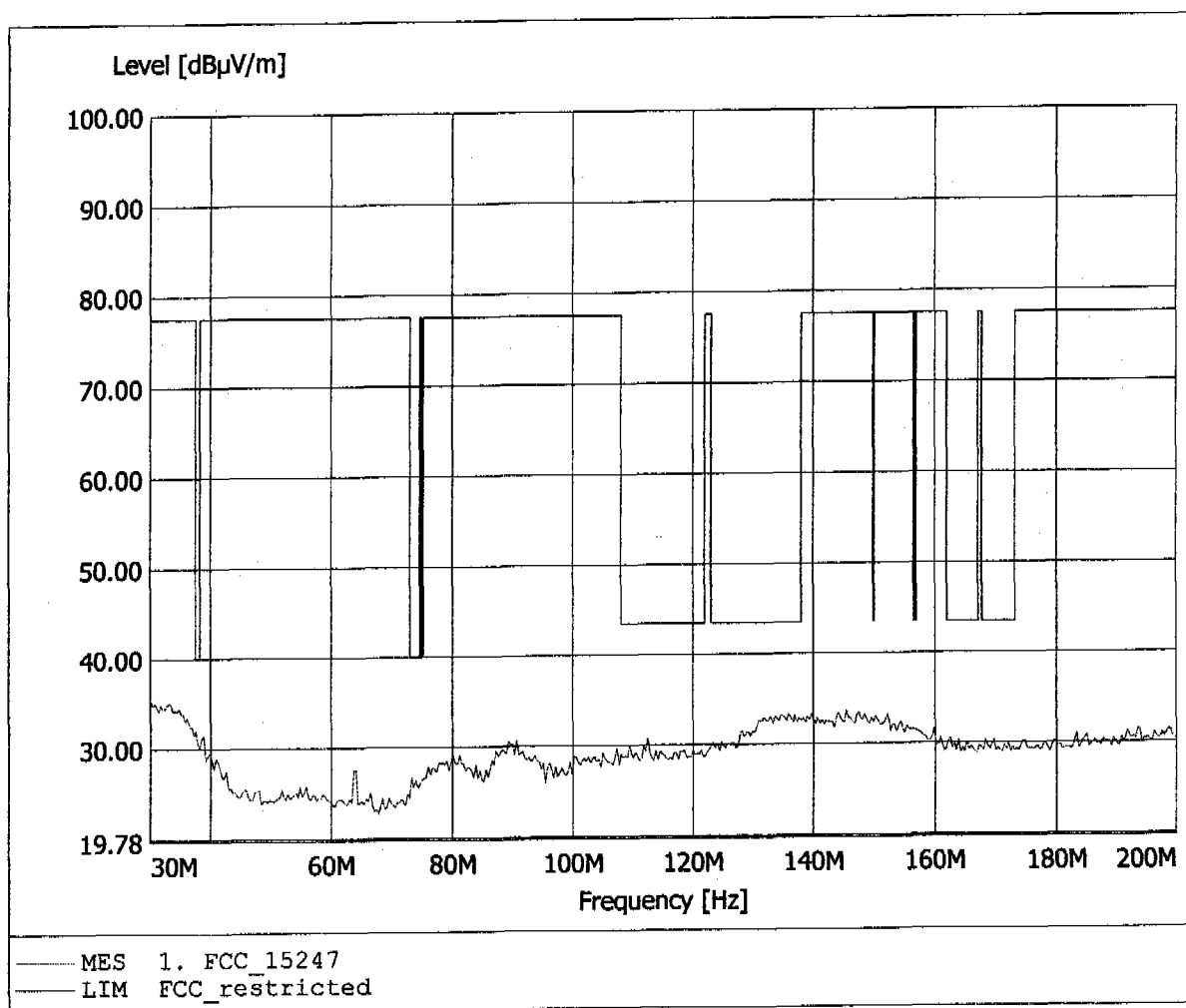
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 135.271MHz, Emax: 35.22dBµV/m, RBW: 100kHz



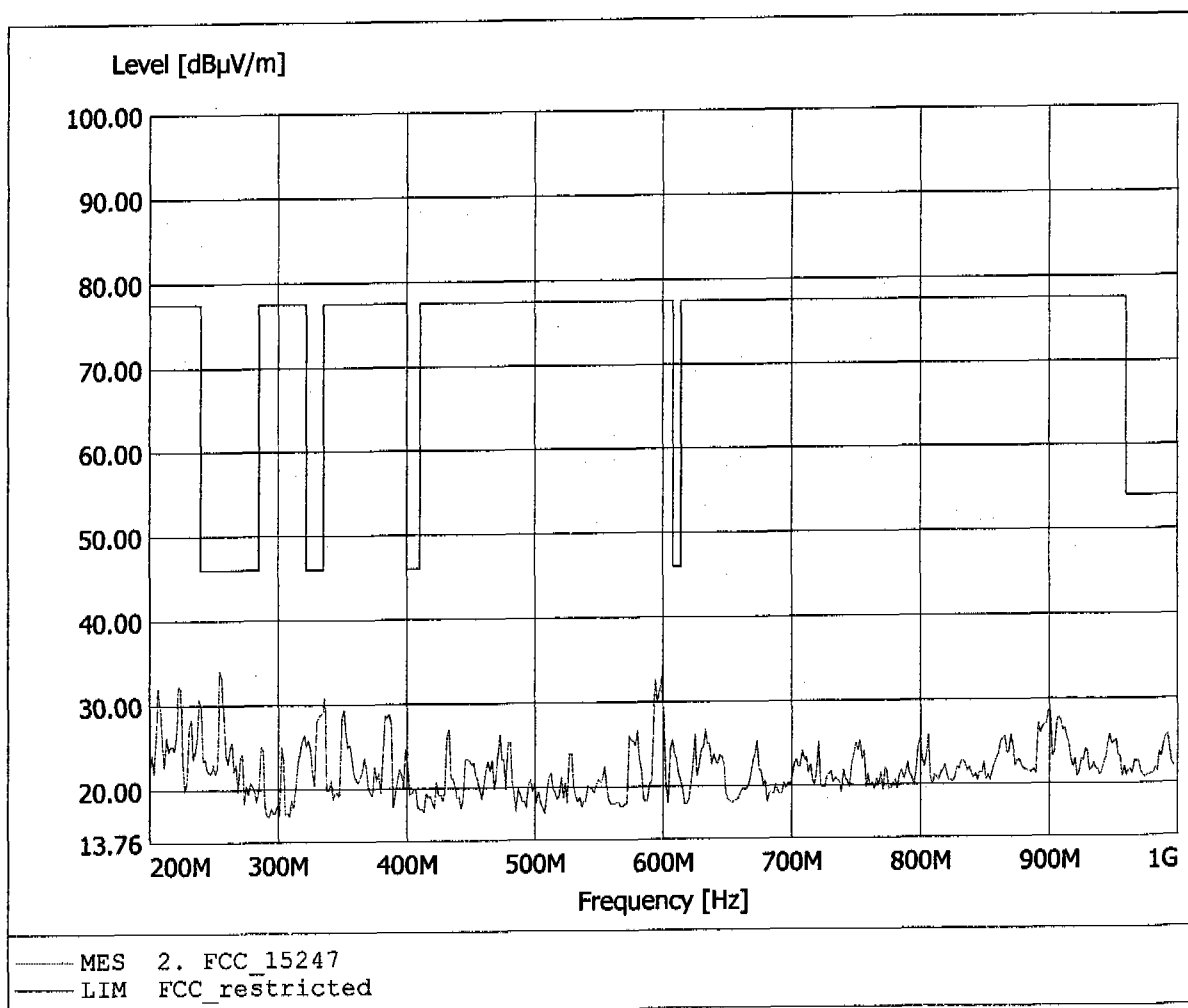
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 30.000MHz, Emax: 35.38dBµV/m, RBW: 100kHz



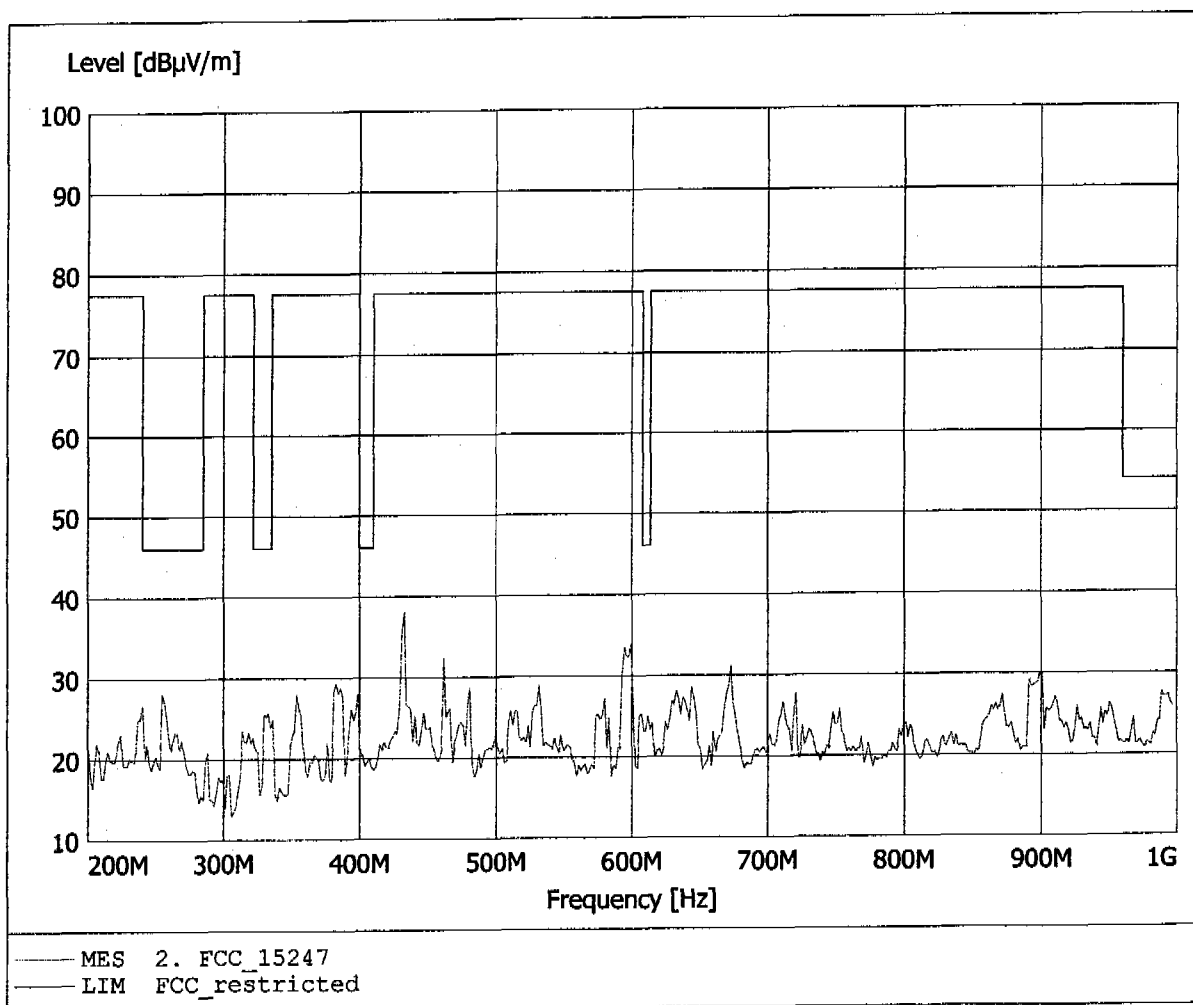
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 254.509MHz, Emax: 34.09dBµV/m, RBW: 100kHz



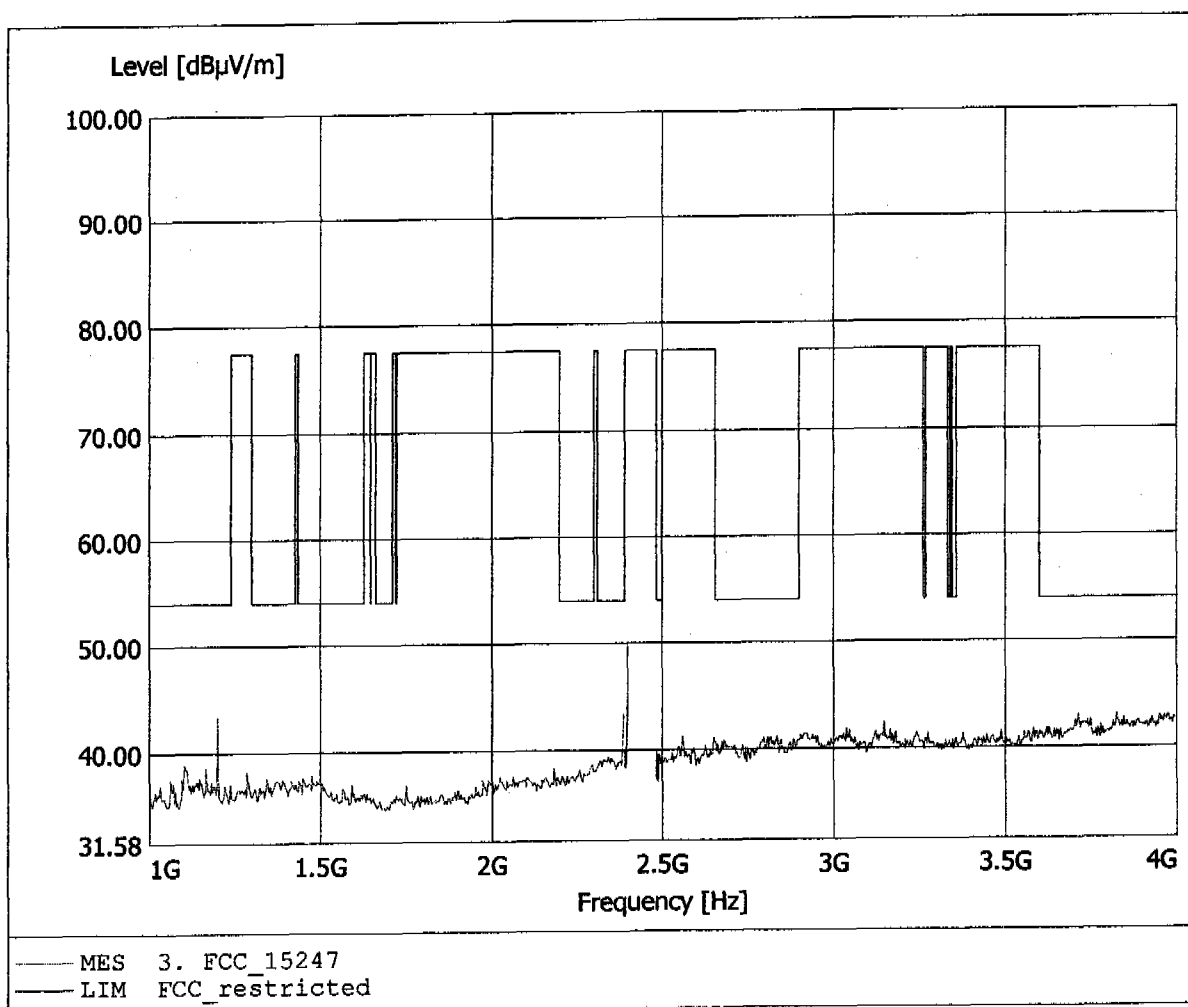
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 432.465MHz, Emax: 38.05dBµV/m, RBW: 100kHz



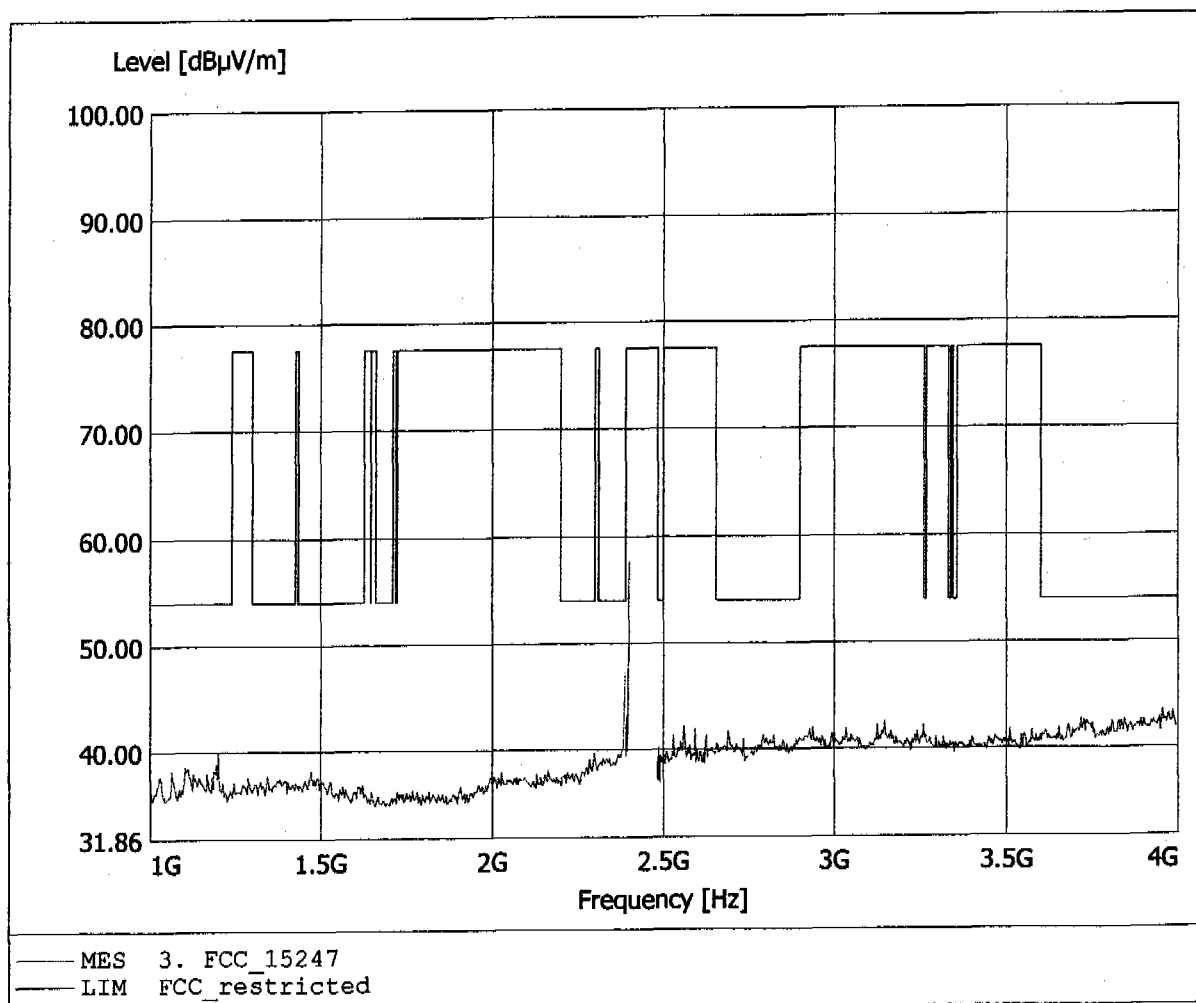
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to S15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 49.95dB μ V/m, RBW: 1MHz



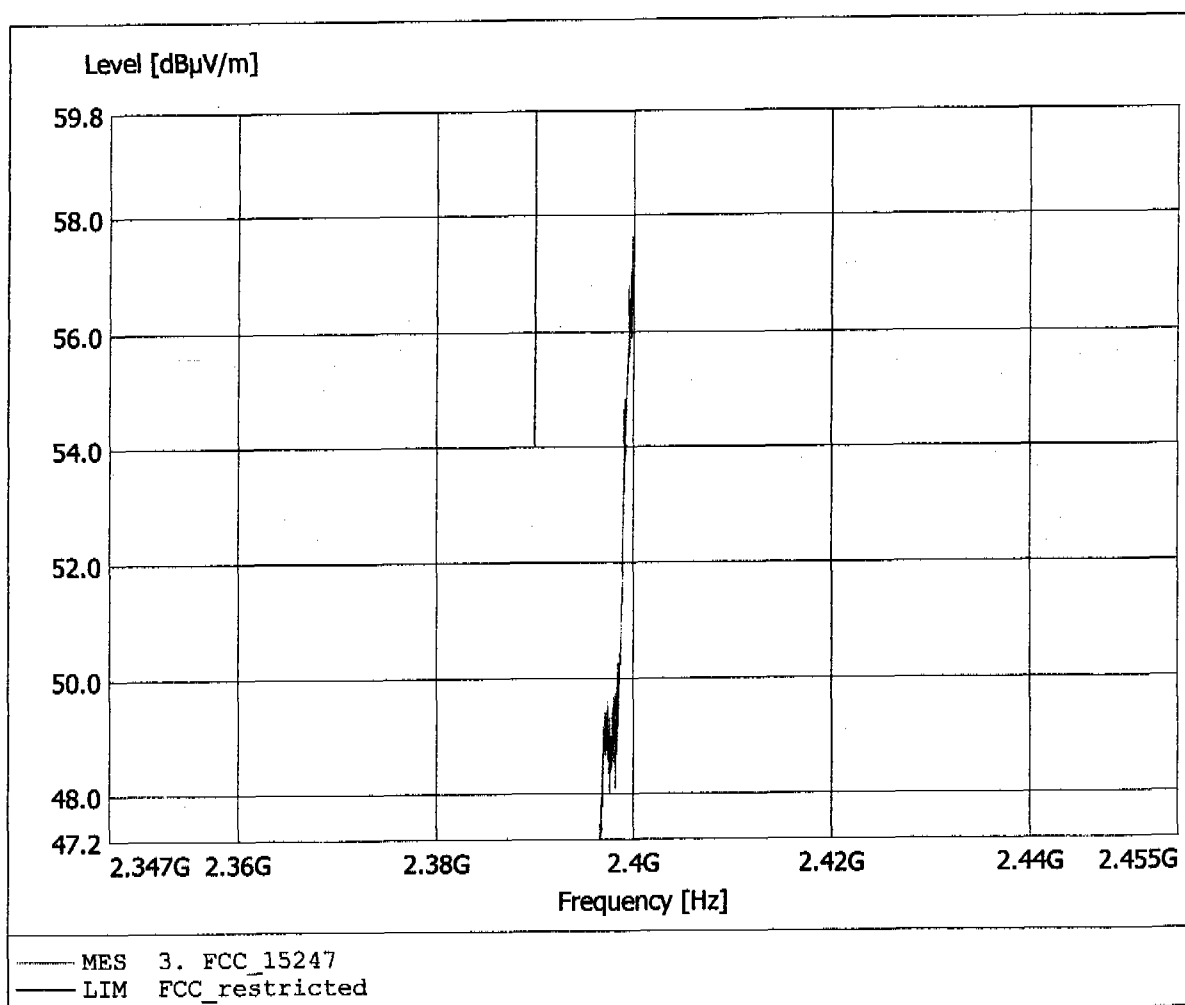
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 57.62dBμV/m, RBW: 1MHz



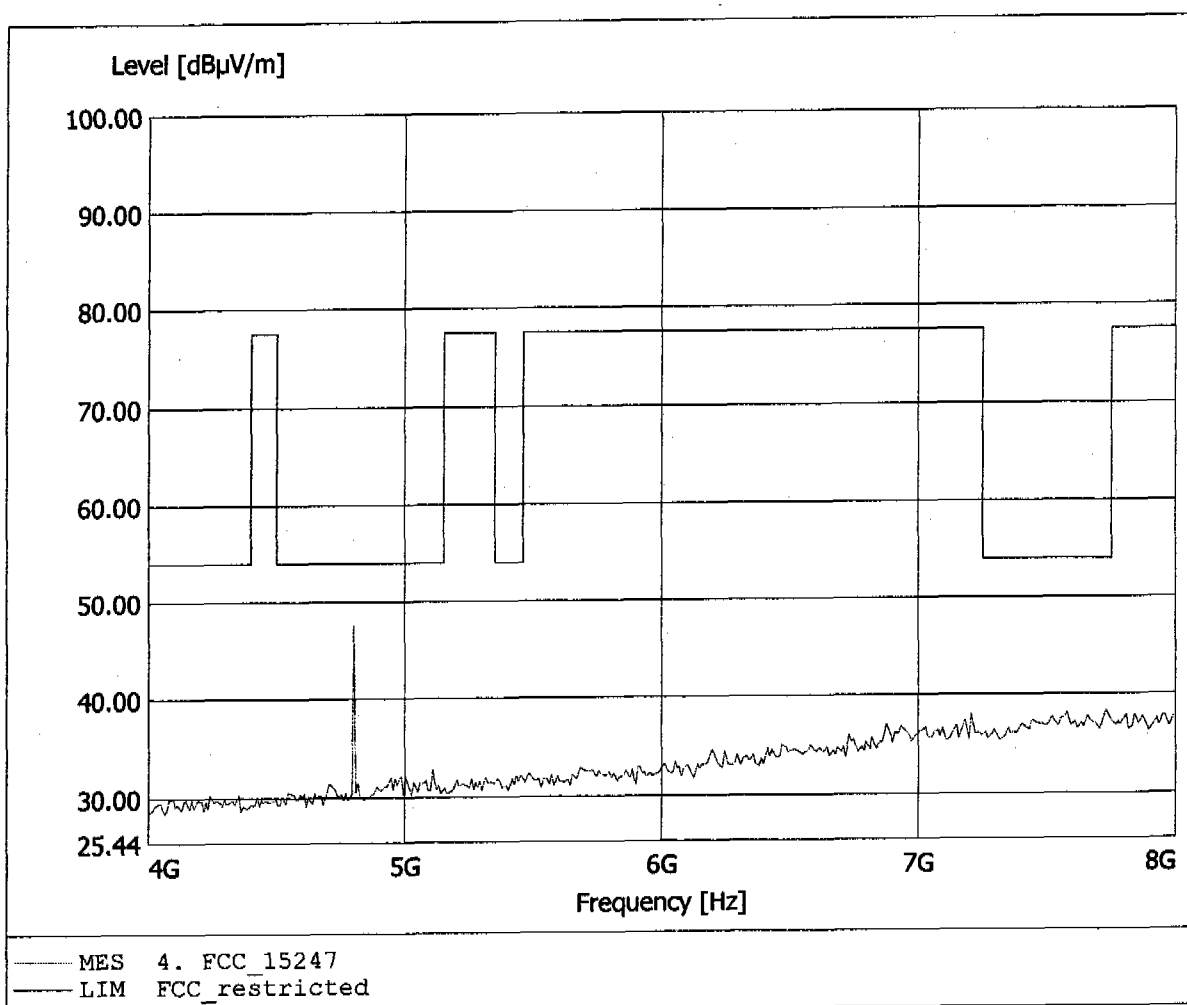
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 57.62dBμV/m, RBW: 1MHz



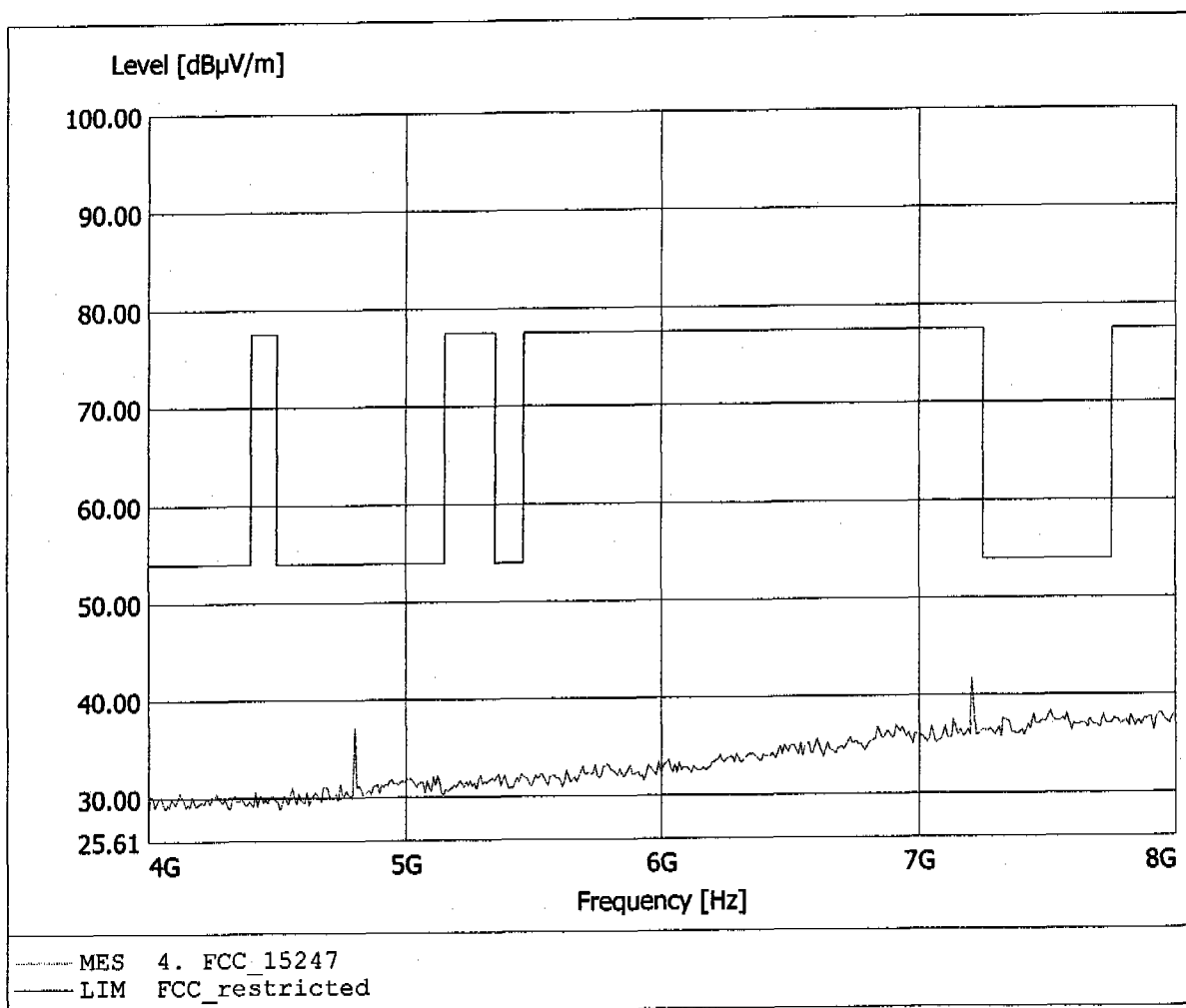
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.802GHz, Emax: 47.50dBµV/m, RBW: 1MHz



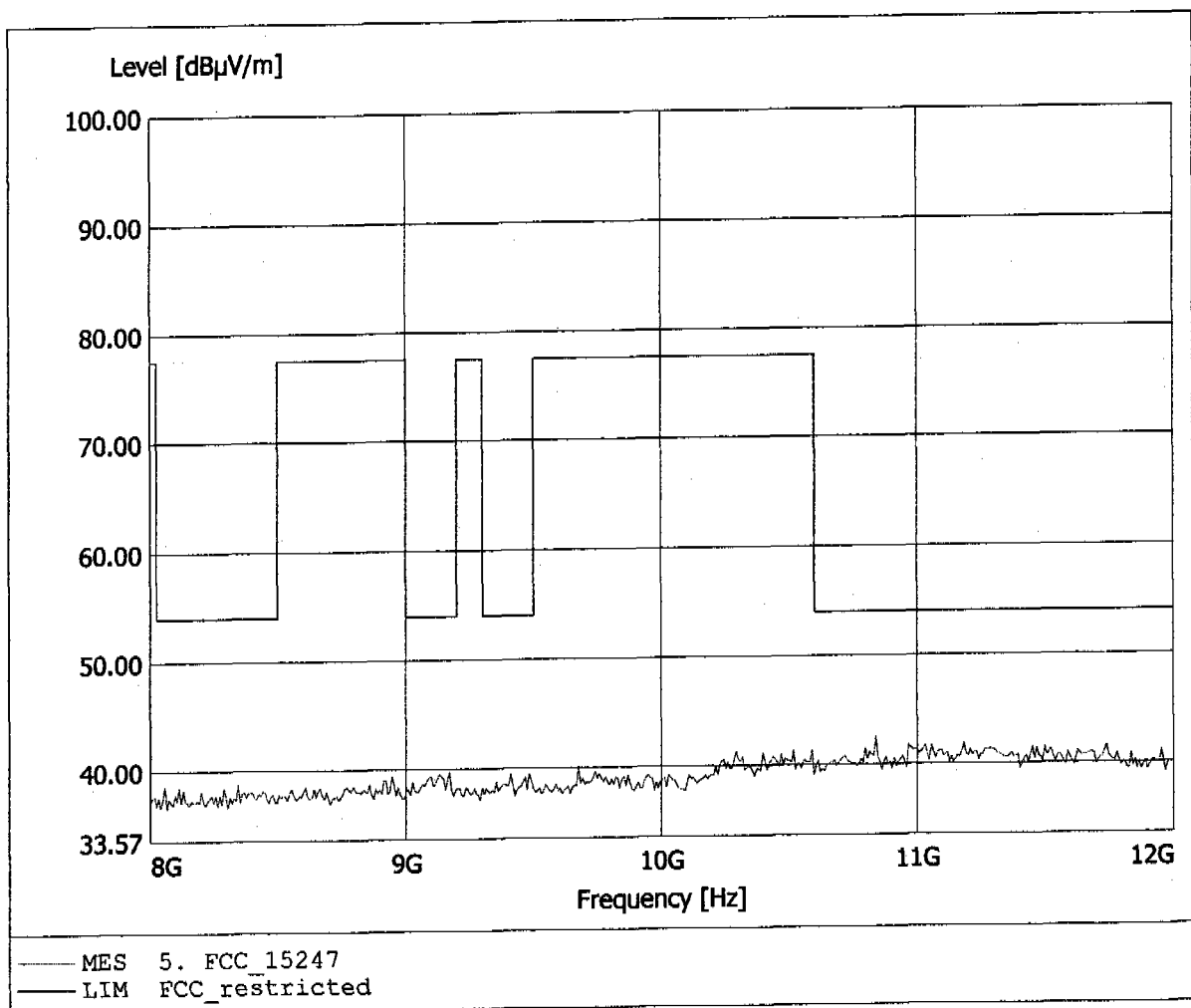
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 7.206GHz, Emax: 41.77dBμV/m, RBW: 1MHz



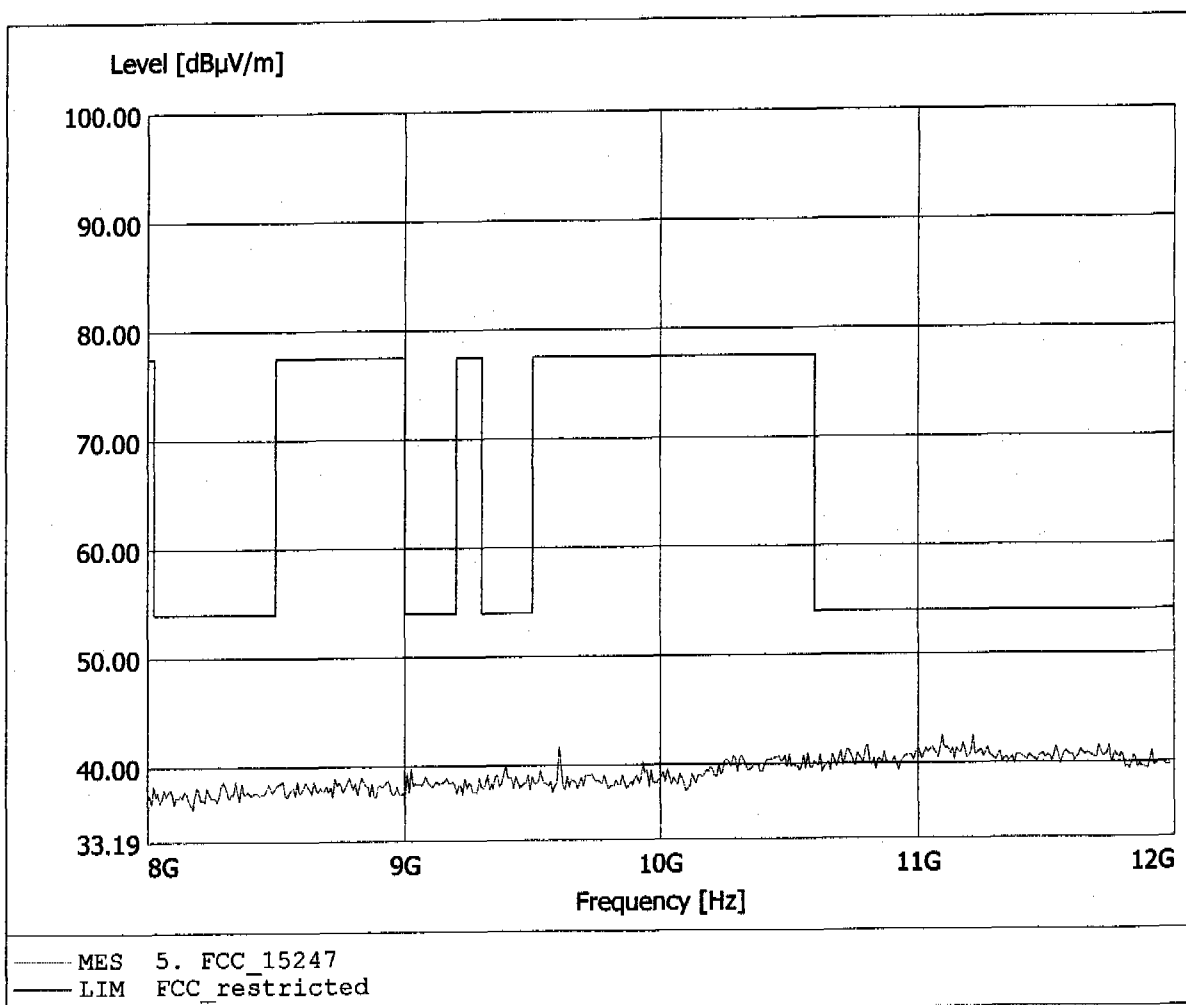
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 10.838GHz, Emax: 42.50dBuV/m, RBW: 1MHz



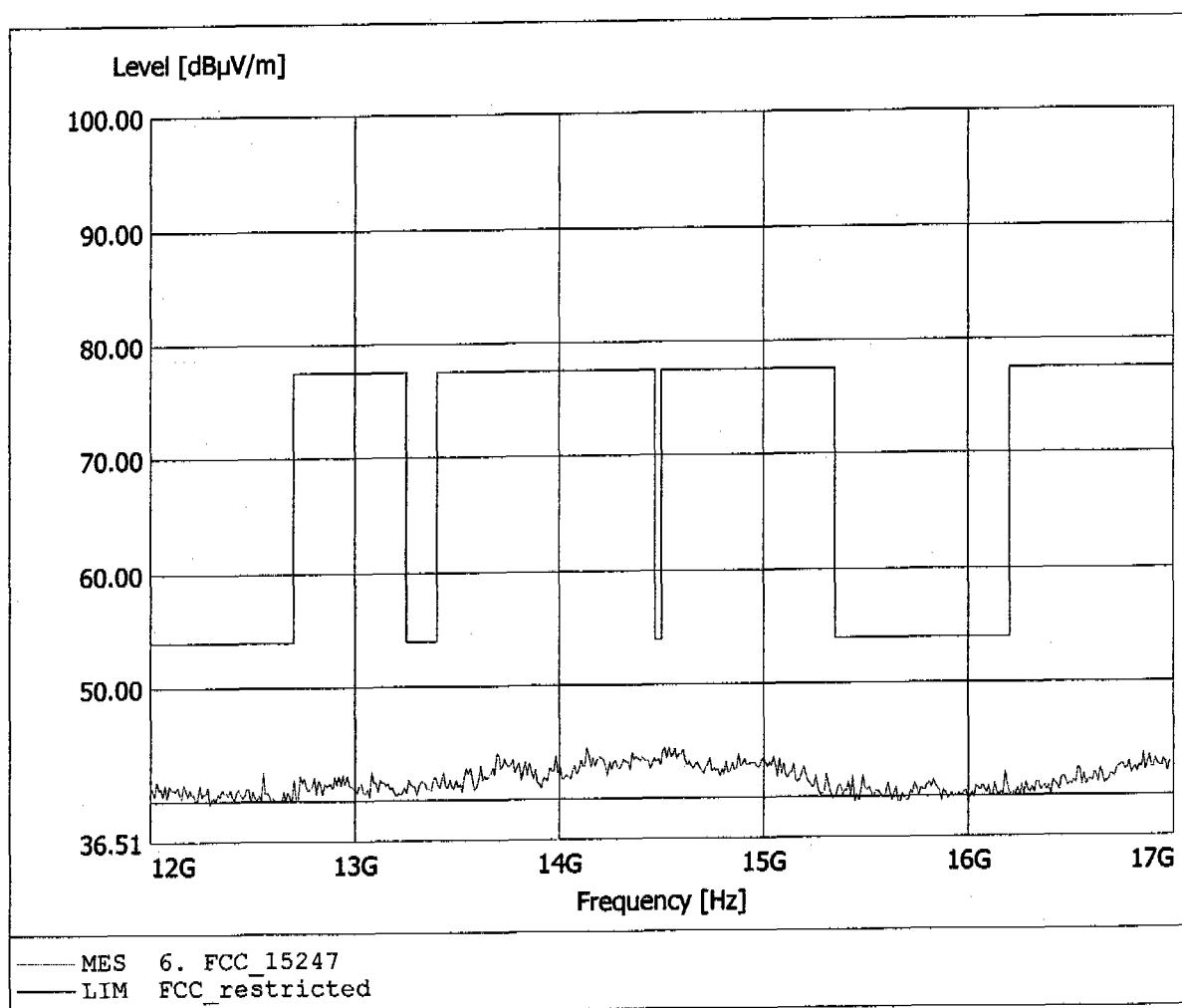
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.094GHz, Emax: 42.56dB μ V/m, RBW: 1MHz



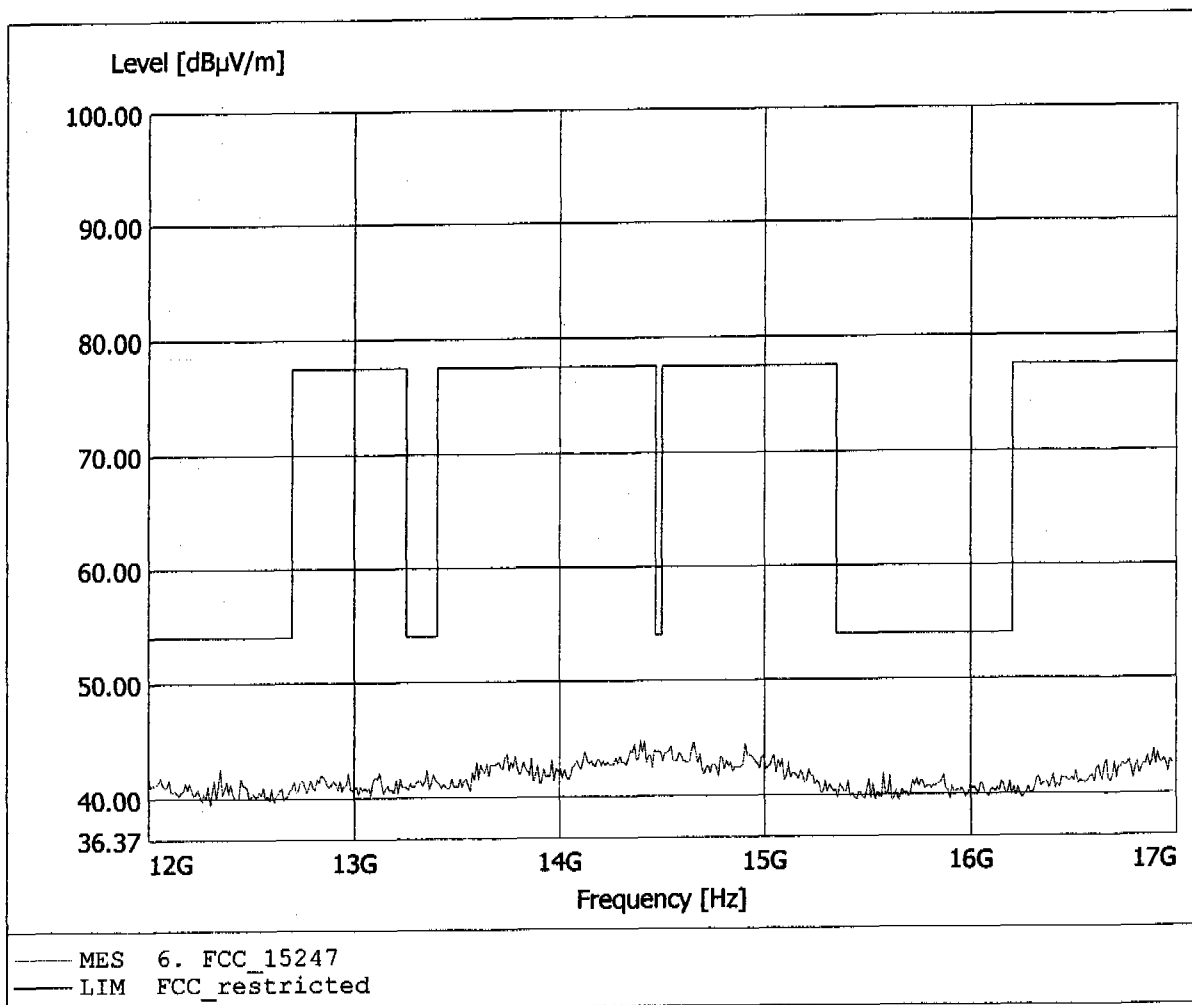
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.134GHz, Emax: 44.44dBμV/m, RBW: 1MHz



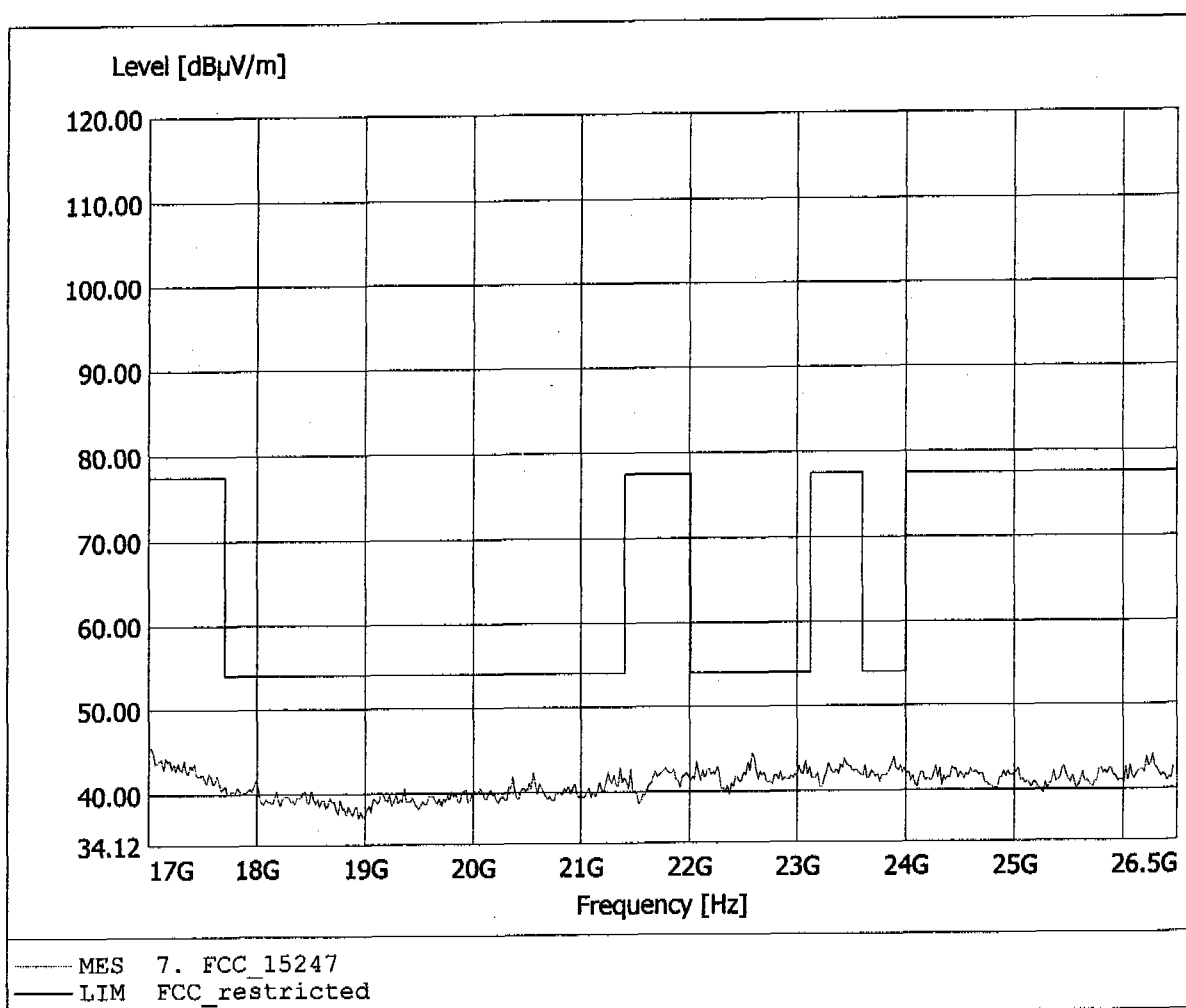
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to S15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.395GHz, Emax: 44.86dBuV/m, RBW: 1MHz



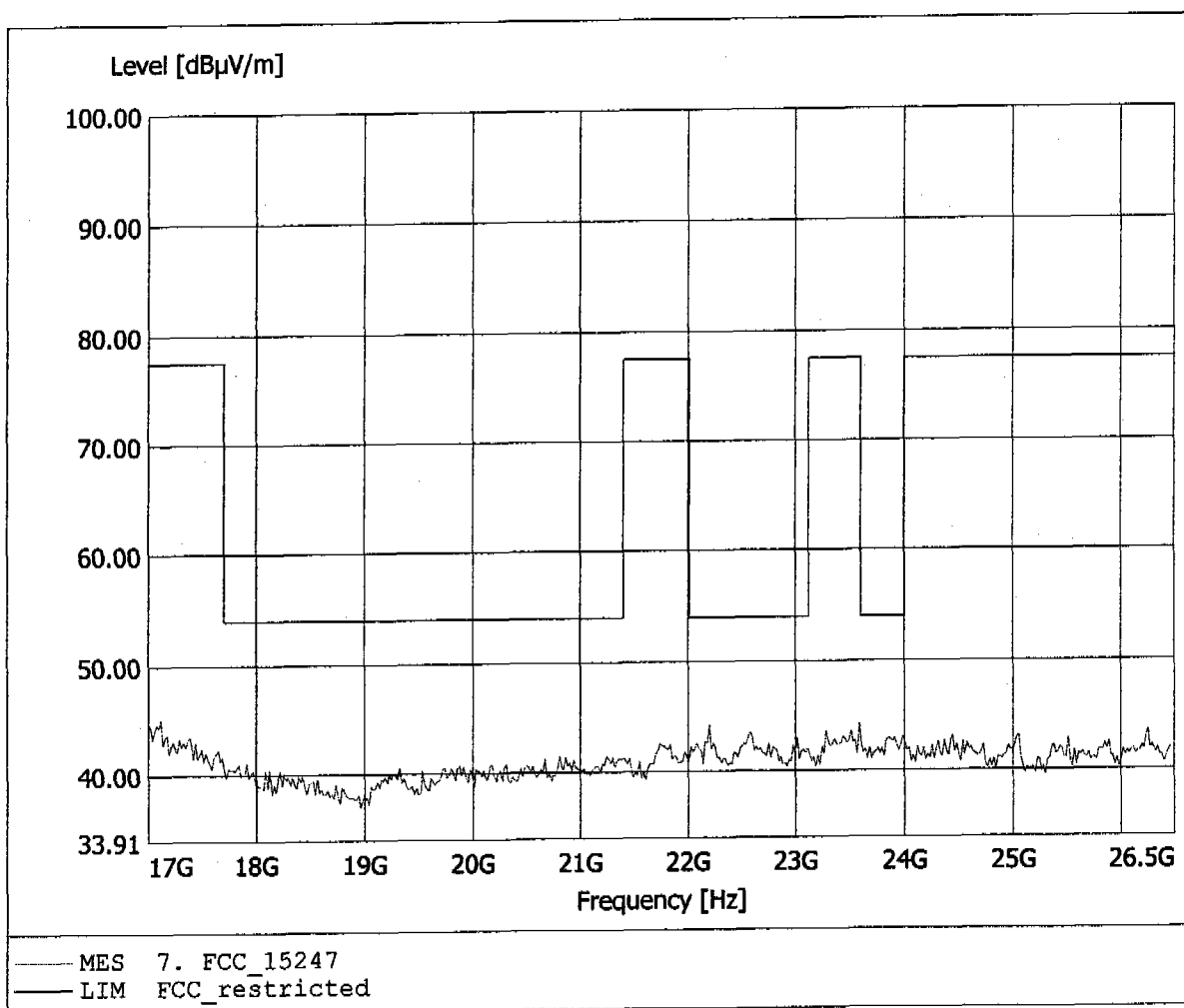
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 17.019GHz, Emax: 45.50dBμV/m, RBW: 1MHz



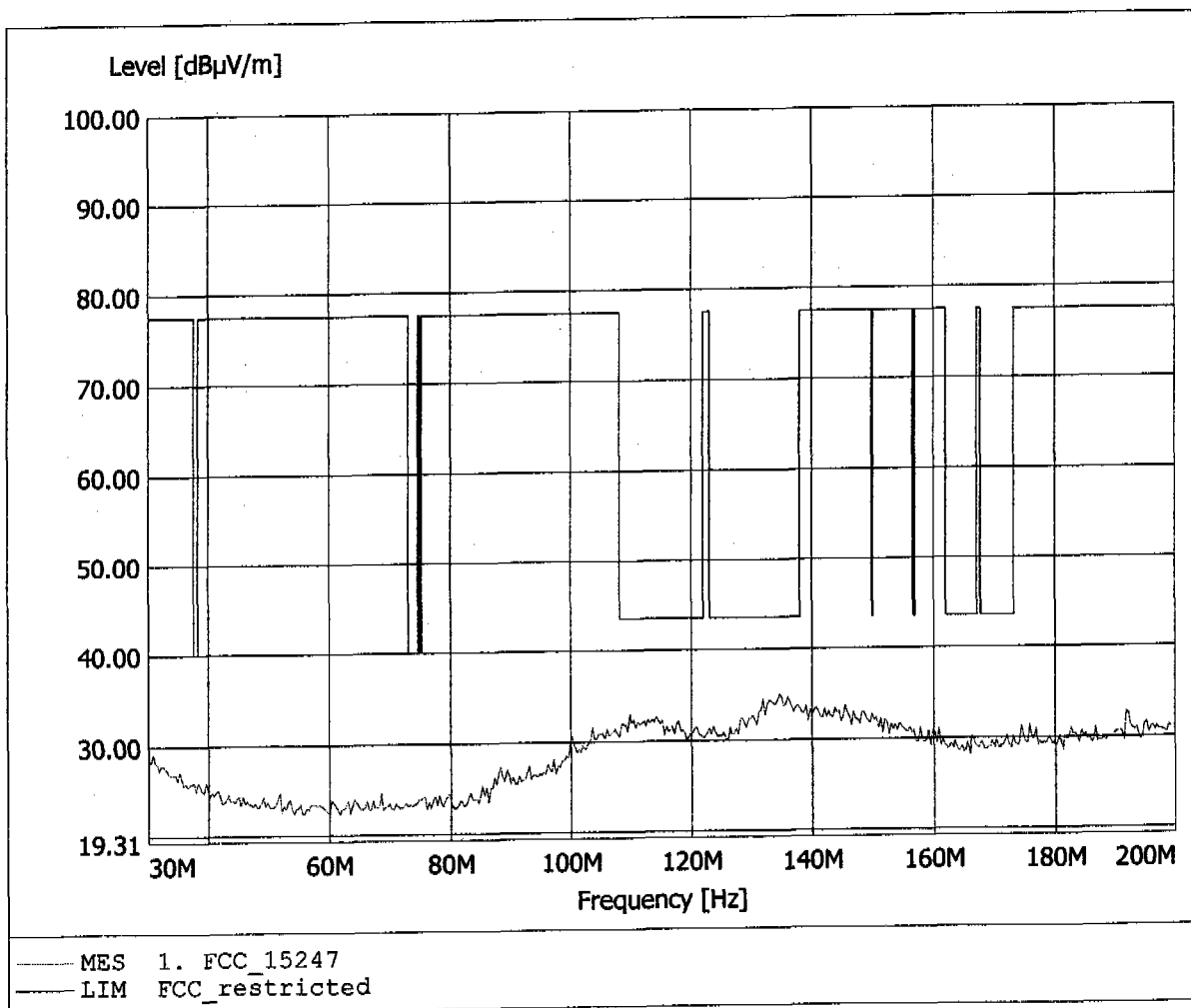
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2402 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 17.114GHz, Emax: 45.19dBμV/m, RBW: 1MHz



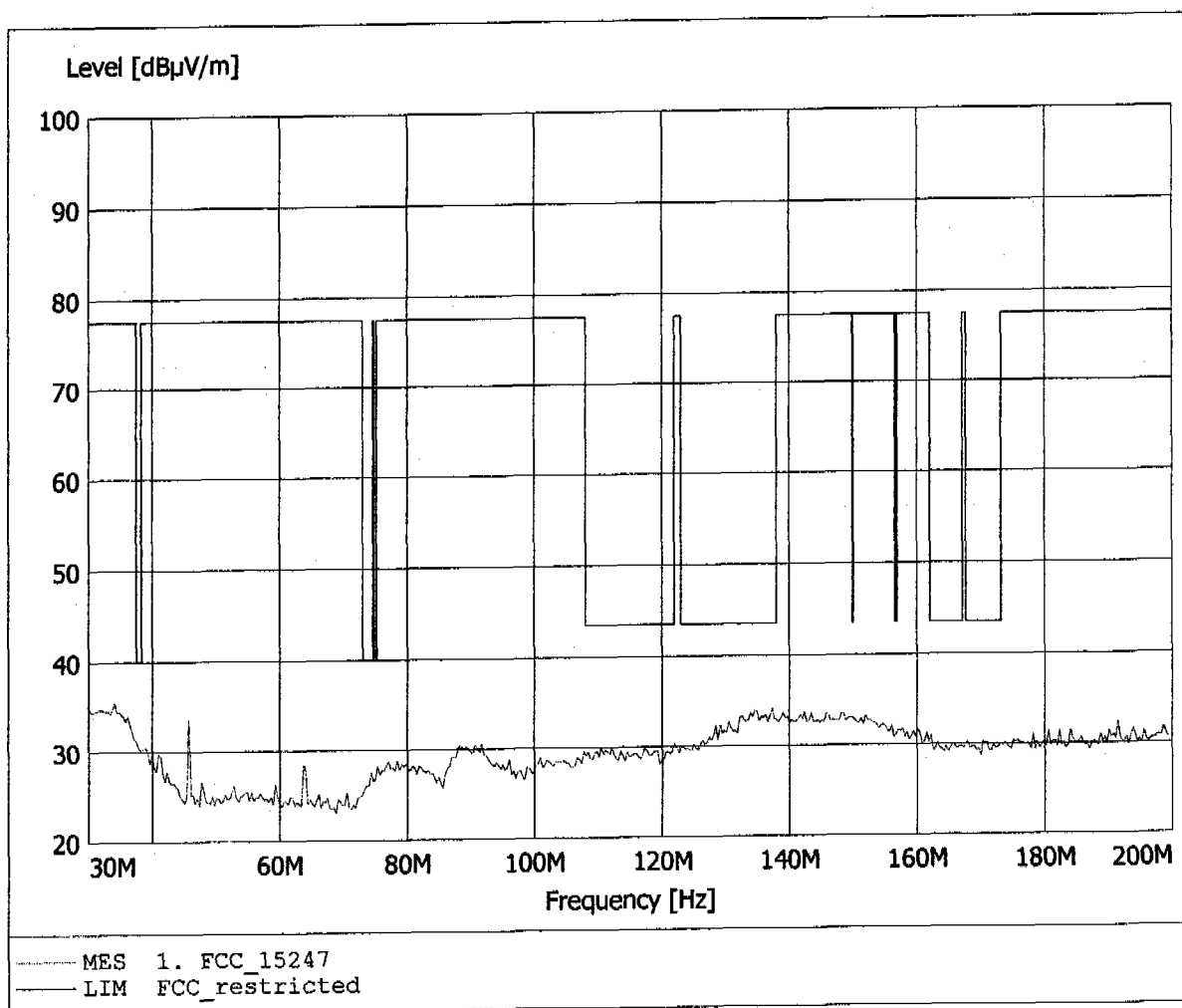
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 134.589MHz, Emax: 34.97dBµV/m, RBW: 100kHz



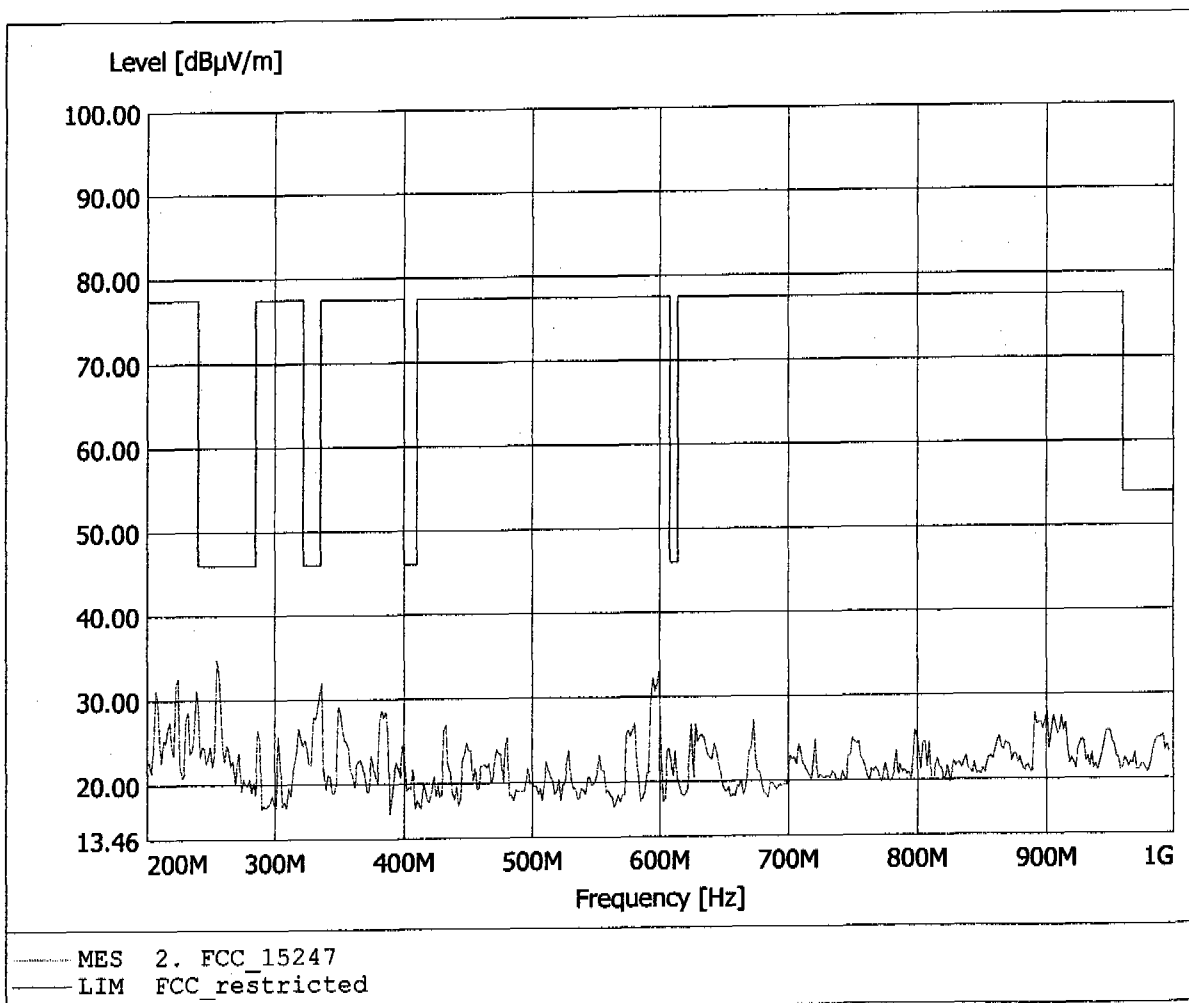
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 34.088MHz, Emax: 35.51dBµV/m, RBW: 100kHz



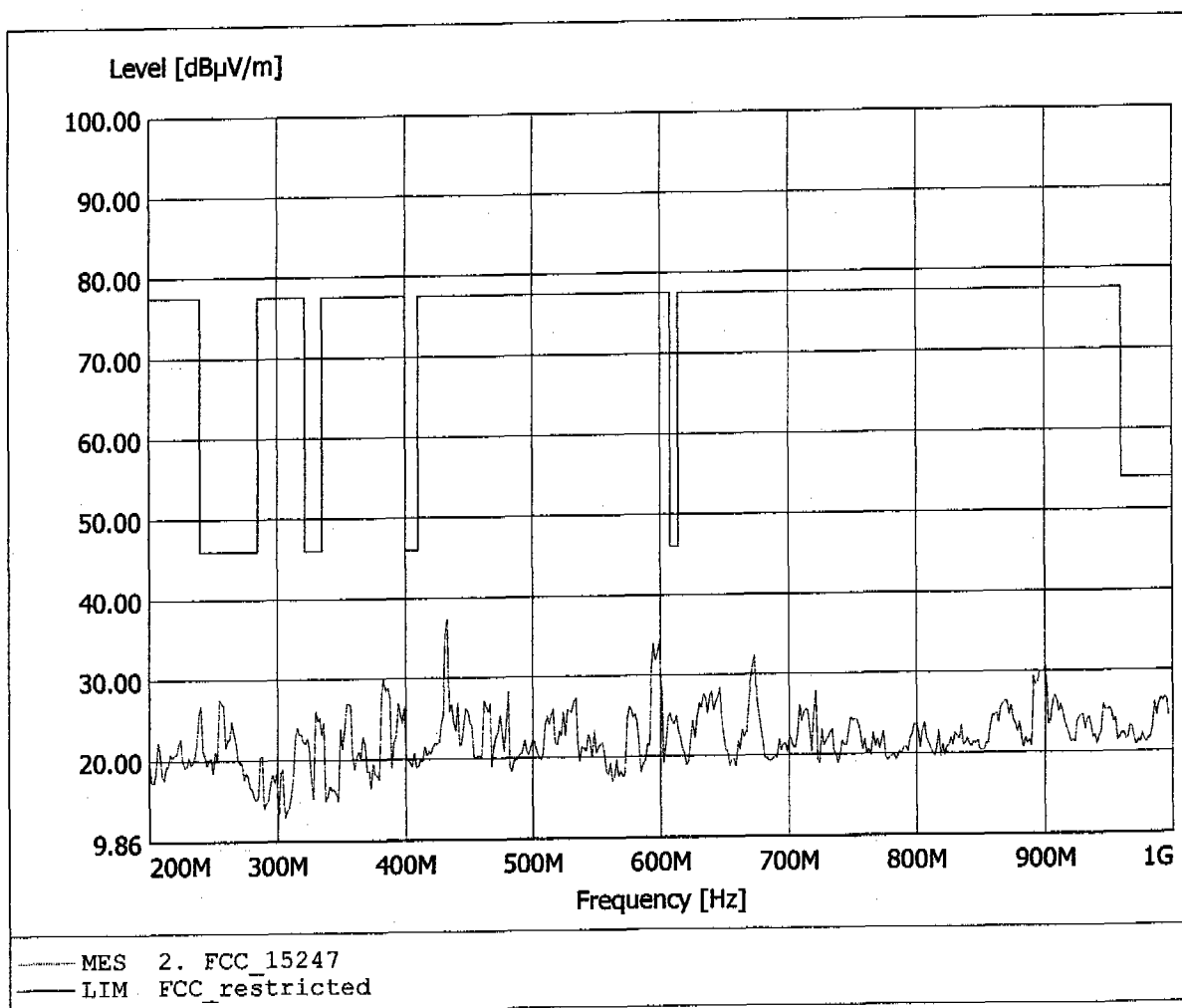
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 254.509MHz, Emax: 34.73dBµV/m, RBW: 100kHz



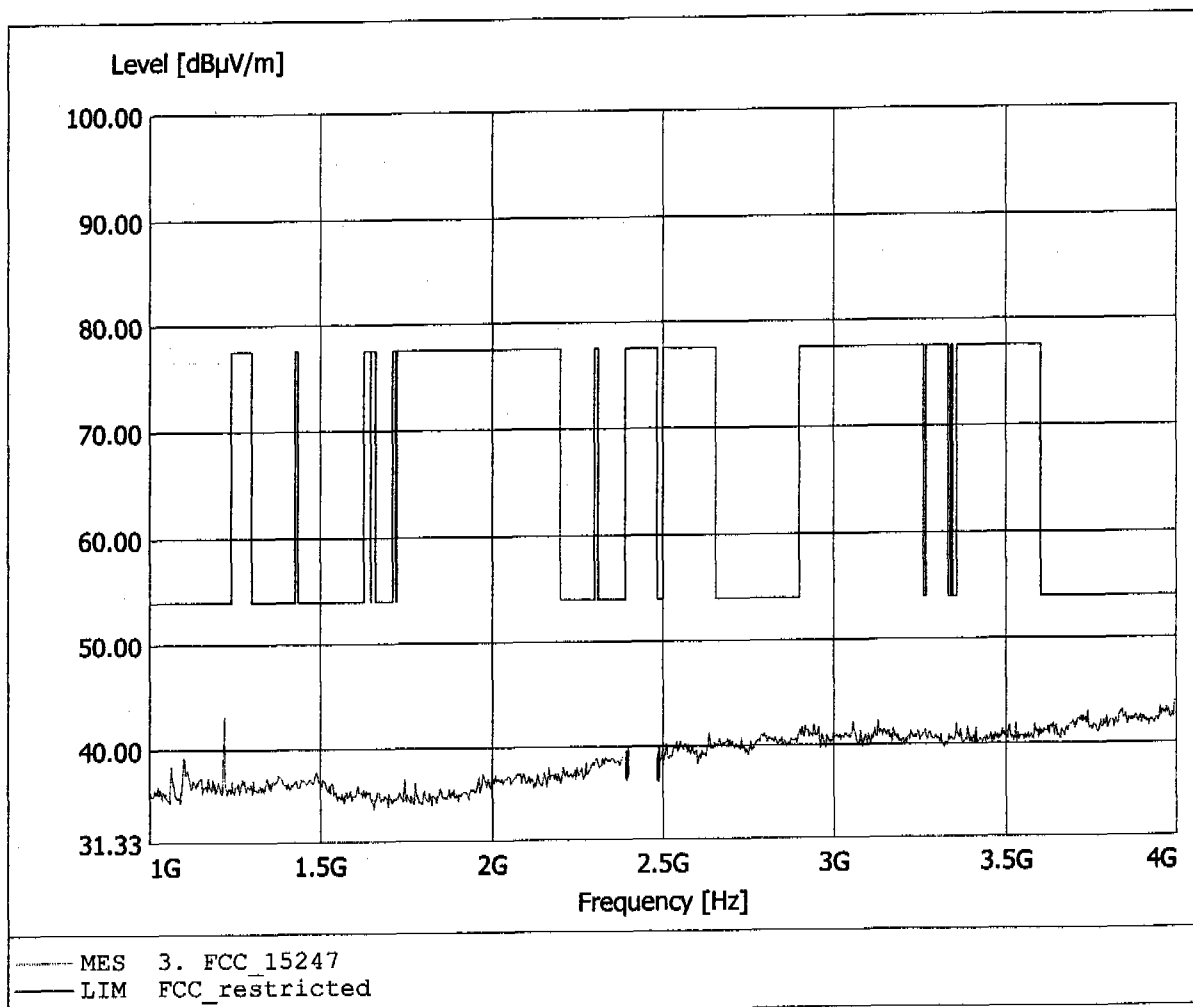
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 432.465MHz, Emax: 37.36dBµV/m, RBW: 100kHz



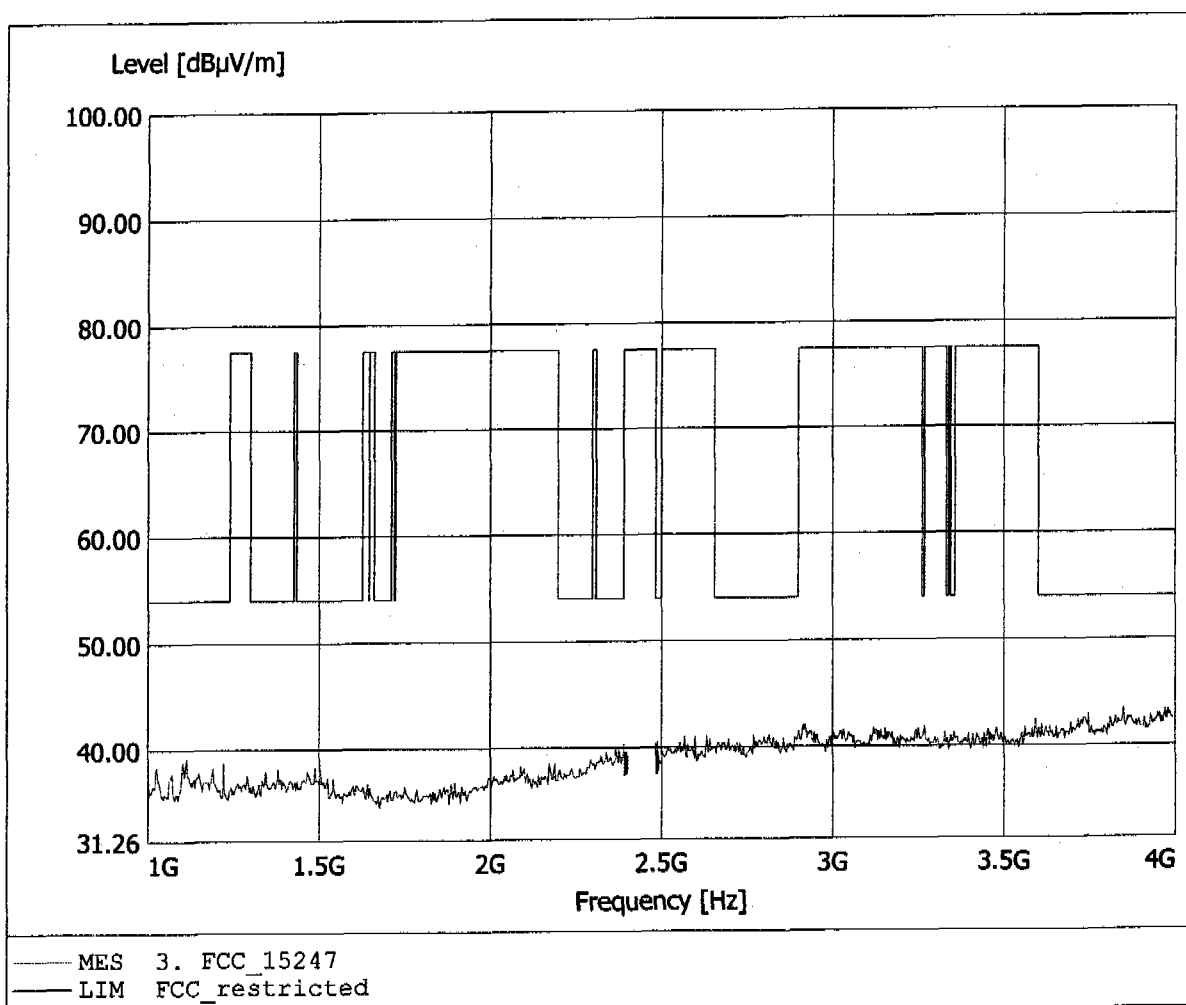
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to S15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 3.994GHz, Emax: 43.82dB μ V/m, RBW: 1MHz



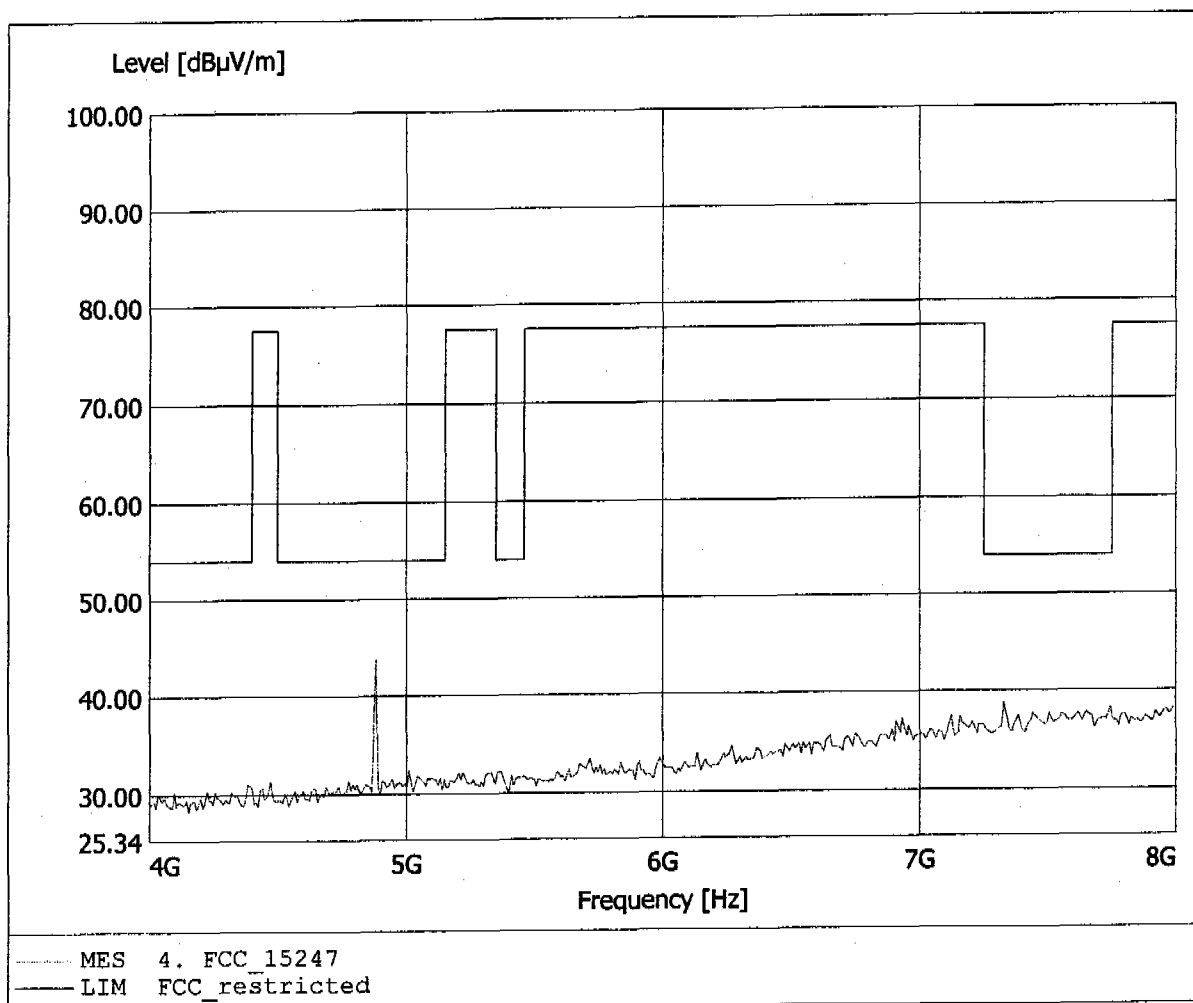
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 3.849GHz, Emax: 43.42dBμV/m, RBW: 1MHz



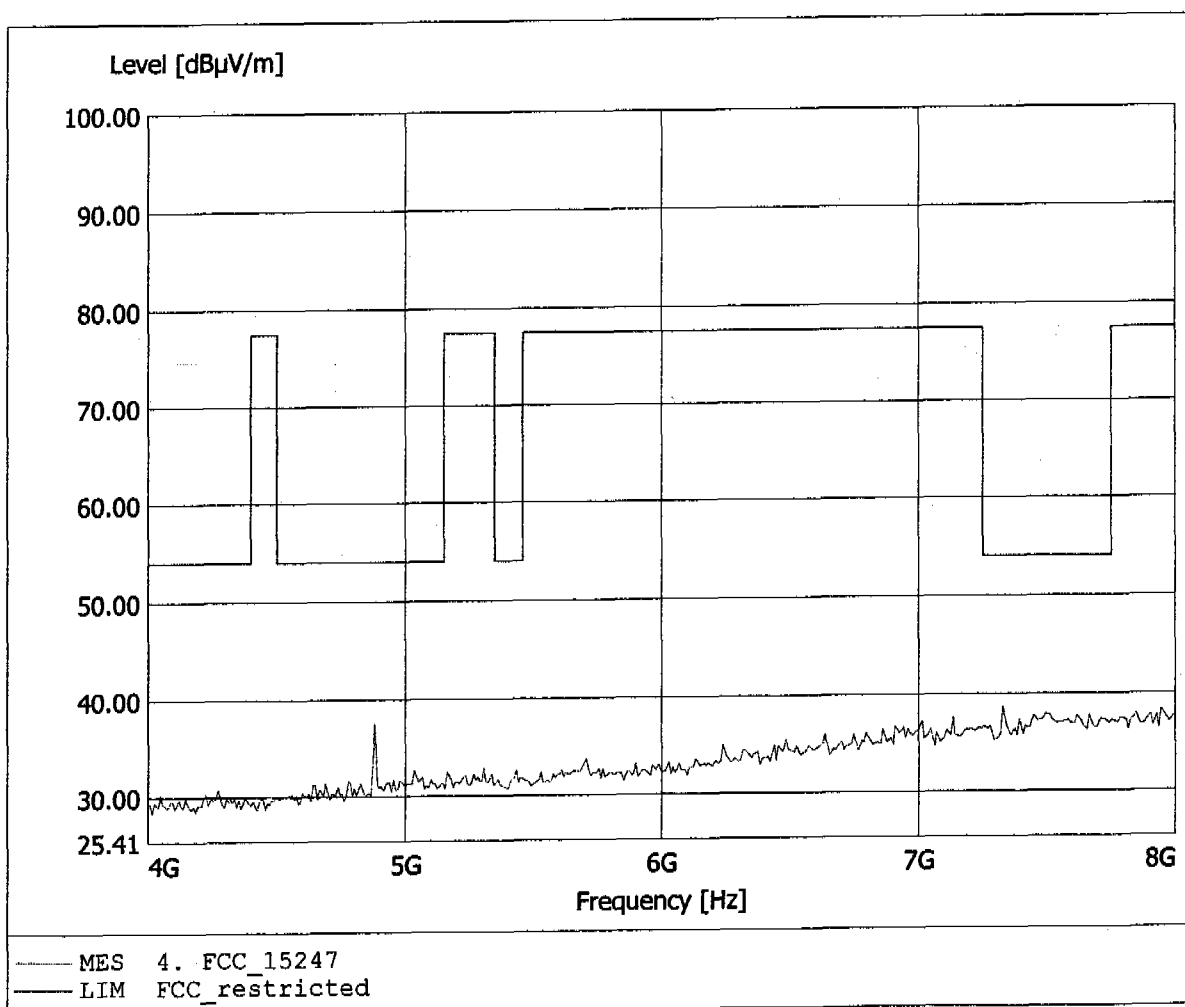
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.882GHz, Emax: 43.76dBμV/m, RBW: 1MHz



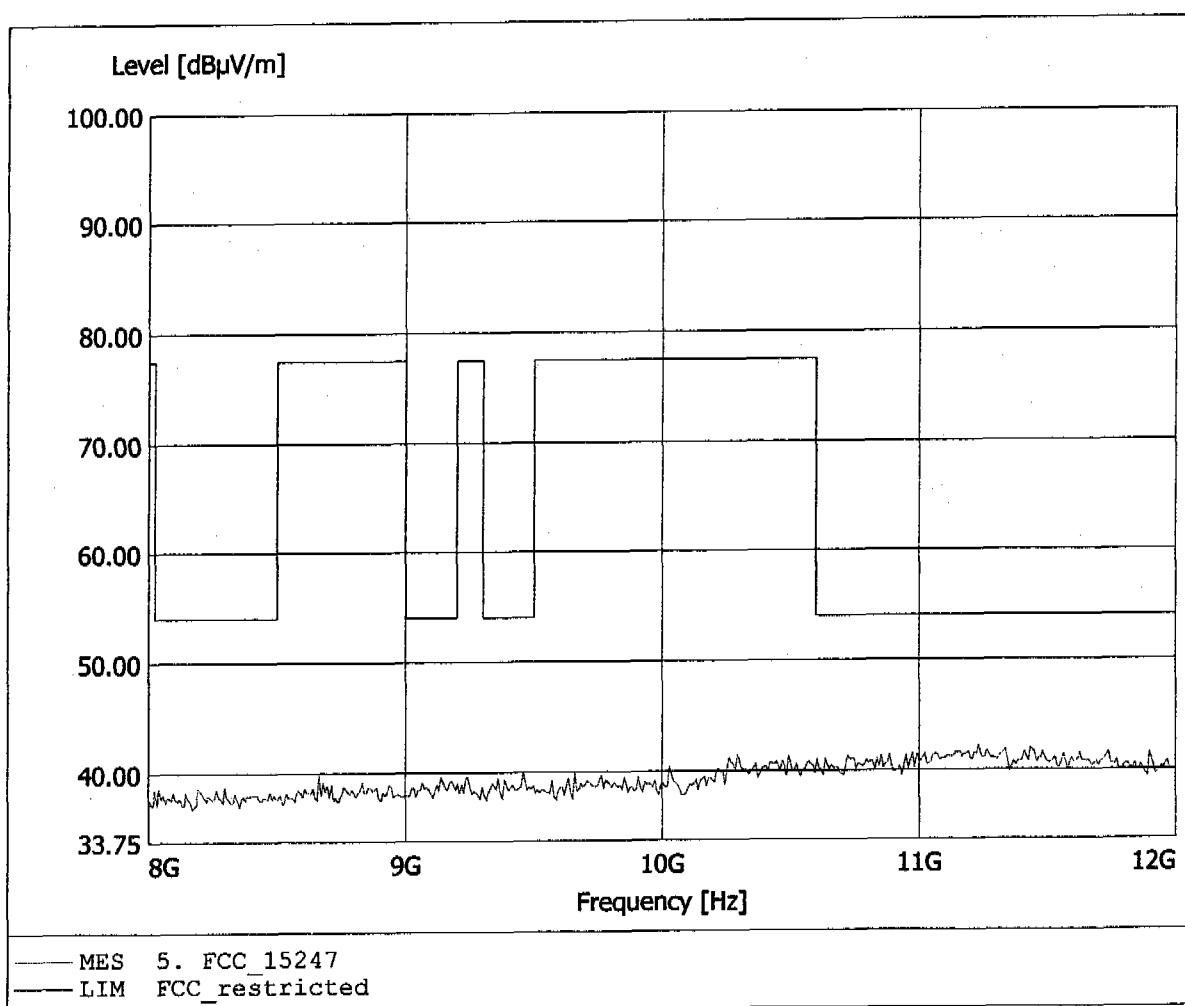
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 7.327GHz, Emax: 38.67dBμV/m, RBW: 1MHz



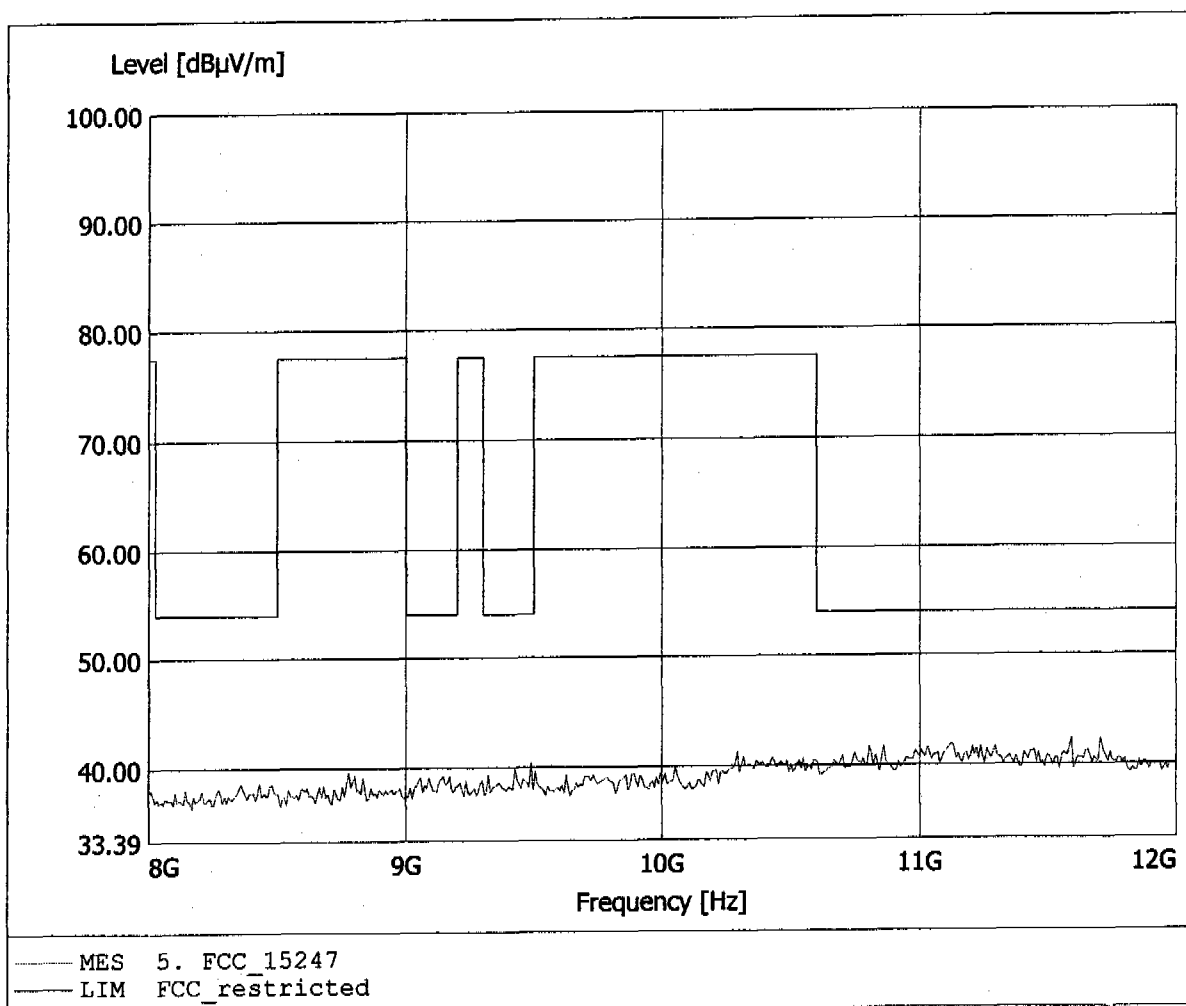
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter display / P max / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to S15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.230GHz, Emax: 42.25dBμV/m, RBW: 1MHz



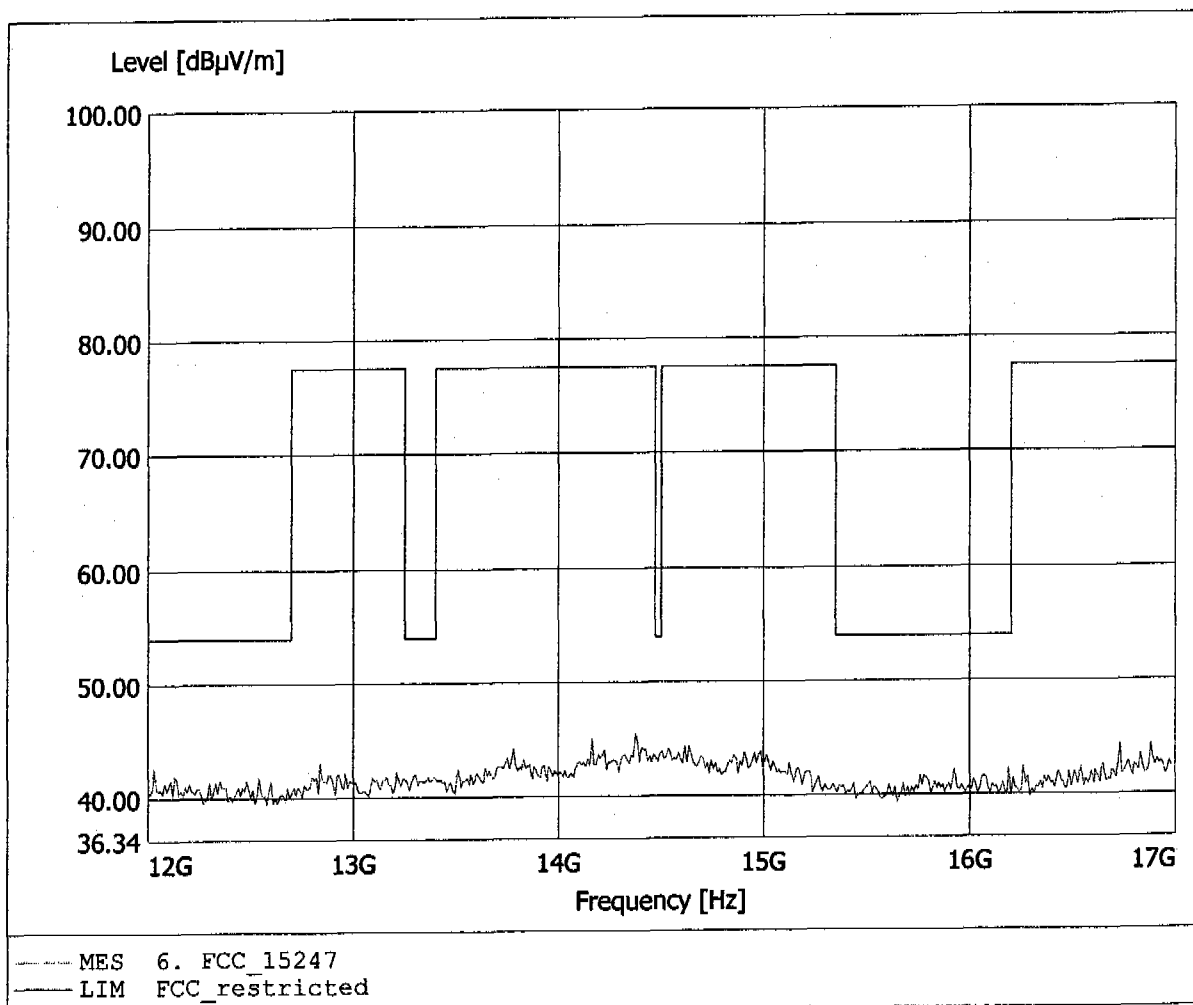
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.703GHz, Emax: 42.33dBμV/m, RBW: 1MHz



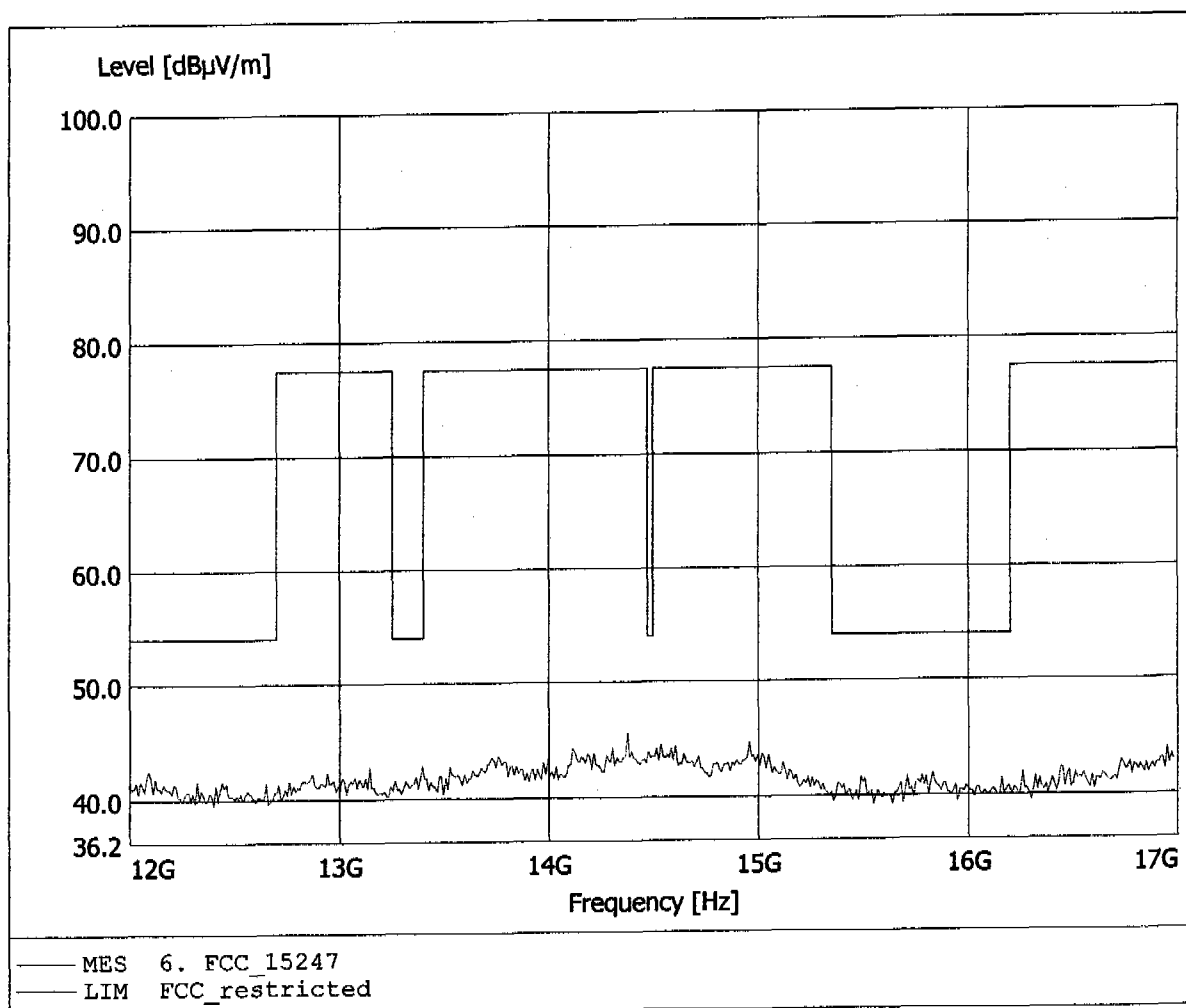
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.375GHz, Emax: 45.52dBµV/m, RBW: 1MHz



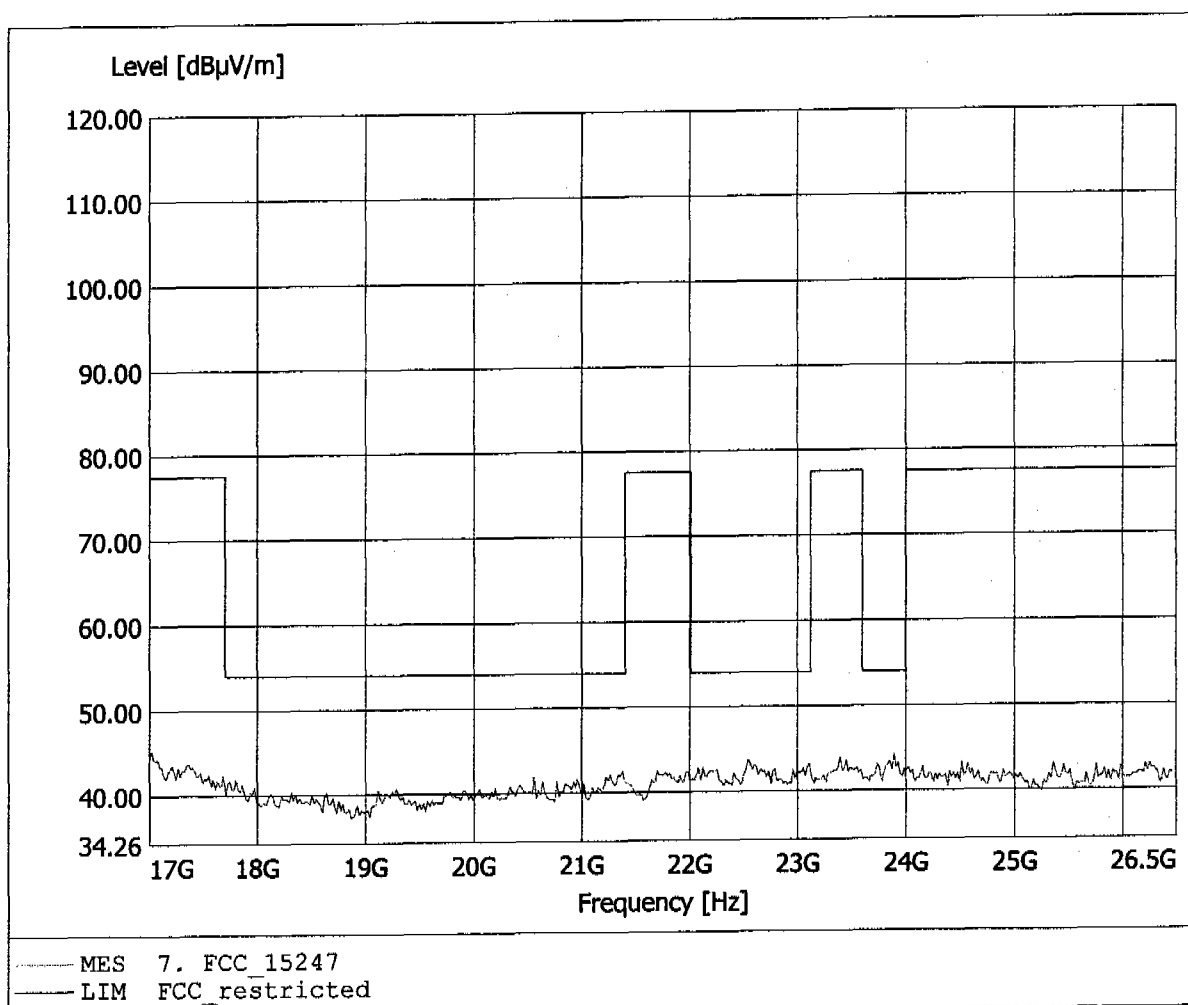
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.375GHz, Emax: 45.59dBuV/m, RBW: 1MHz



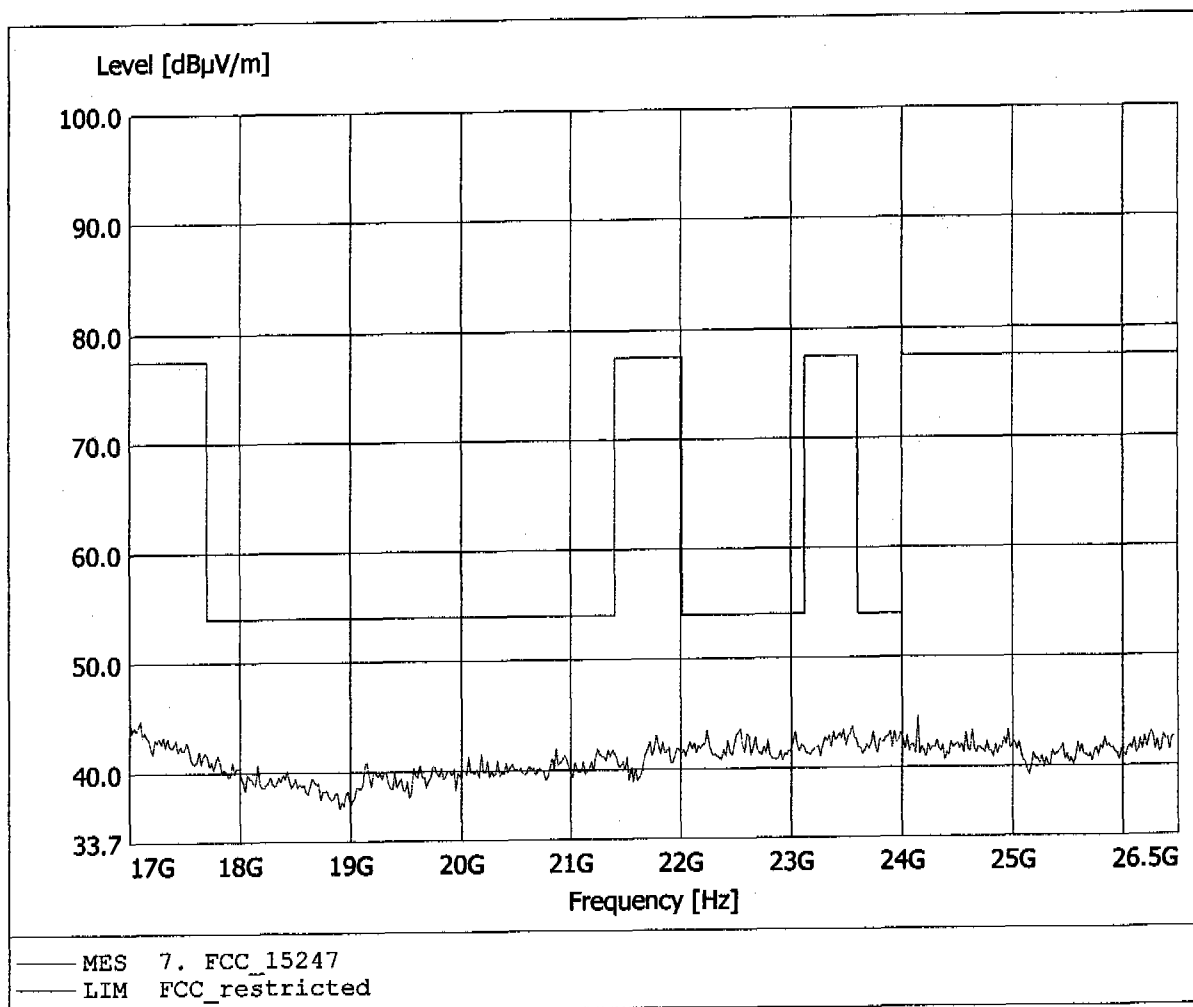
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 17.019GHz, Emax: 45.26dBμV/m, RBW: 1MHz



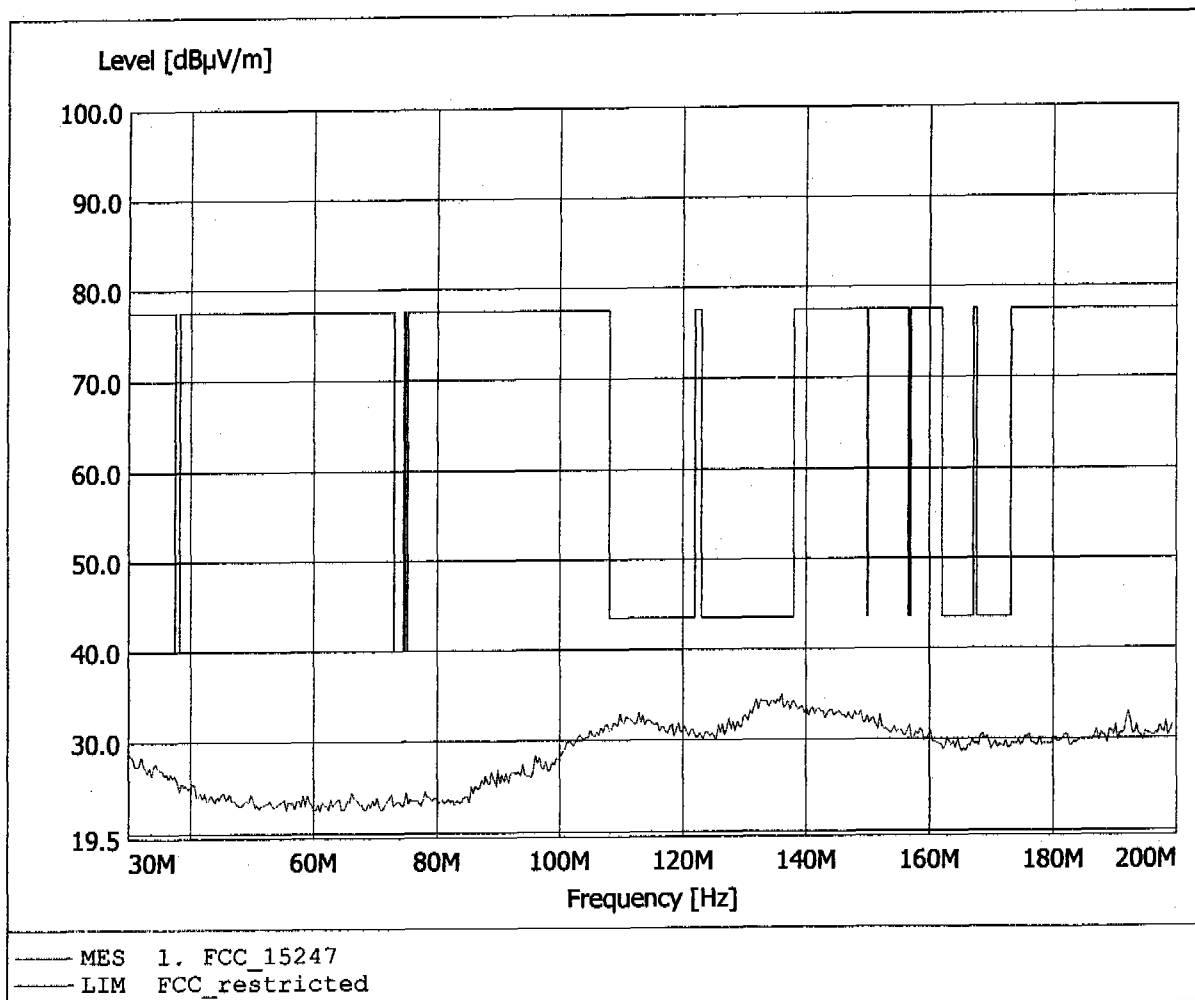
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2441 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 17.095GHz, Emax: 44.80dBμV/m, RBW: 1MHz



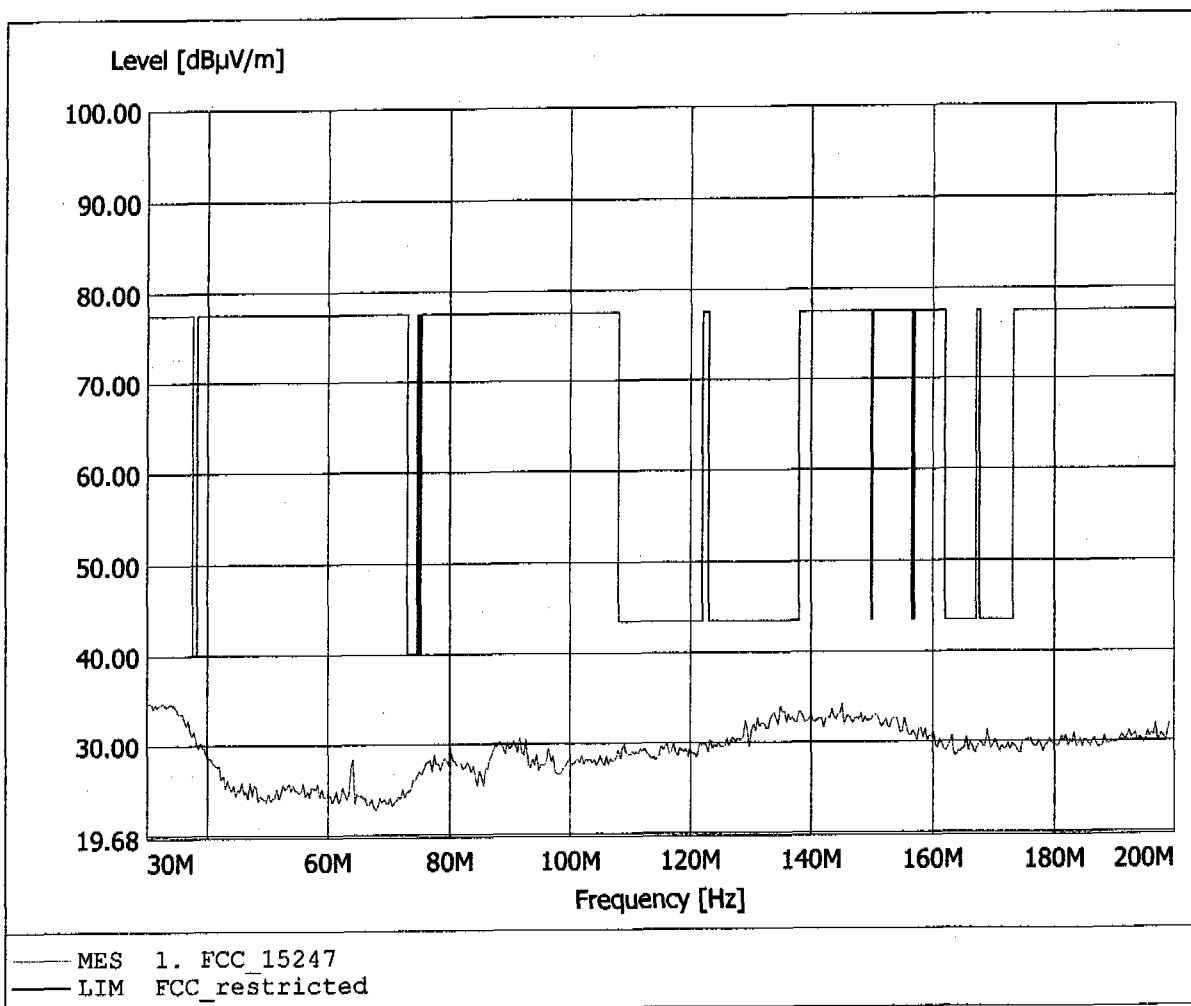
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 135.952MHz, Emax: 35.00dBµV/m, RBW: 100kHz



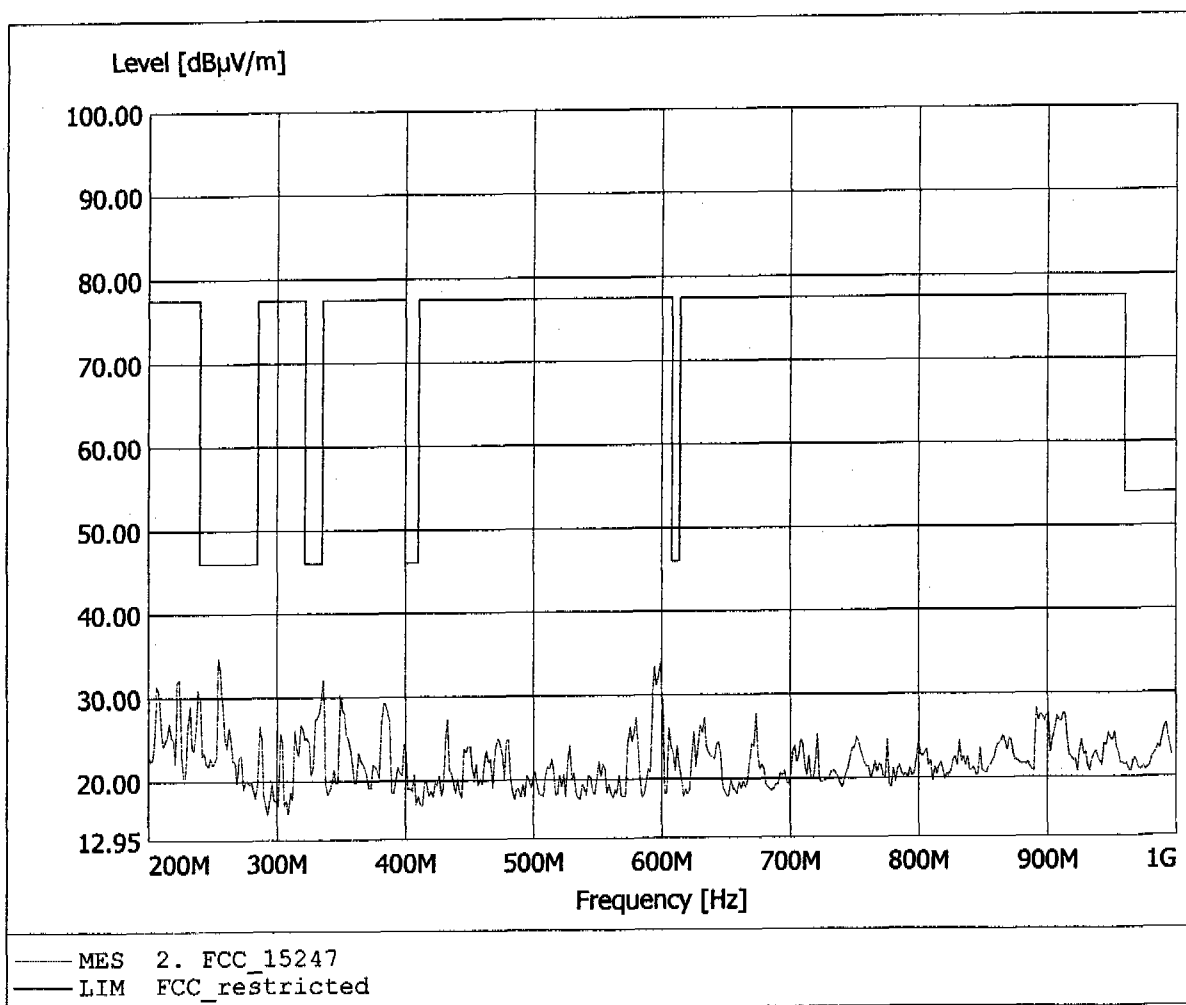
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to S15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 30.000MHz, Emax: 34.80dBμV/m, RBW: 100kHz



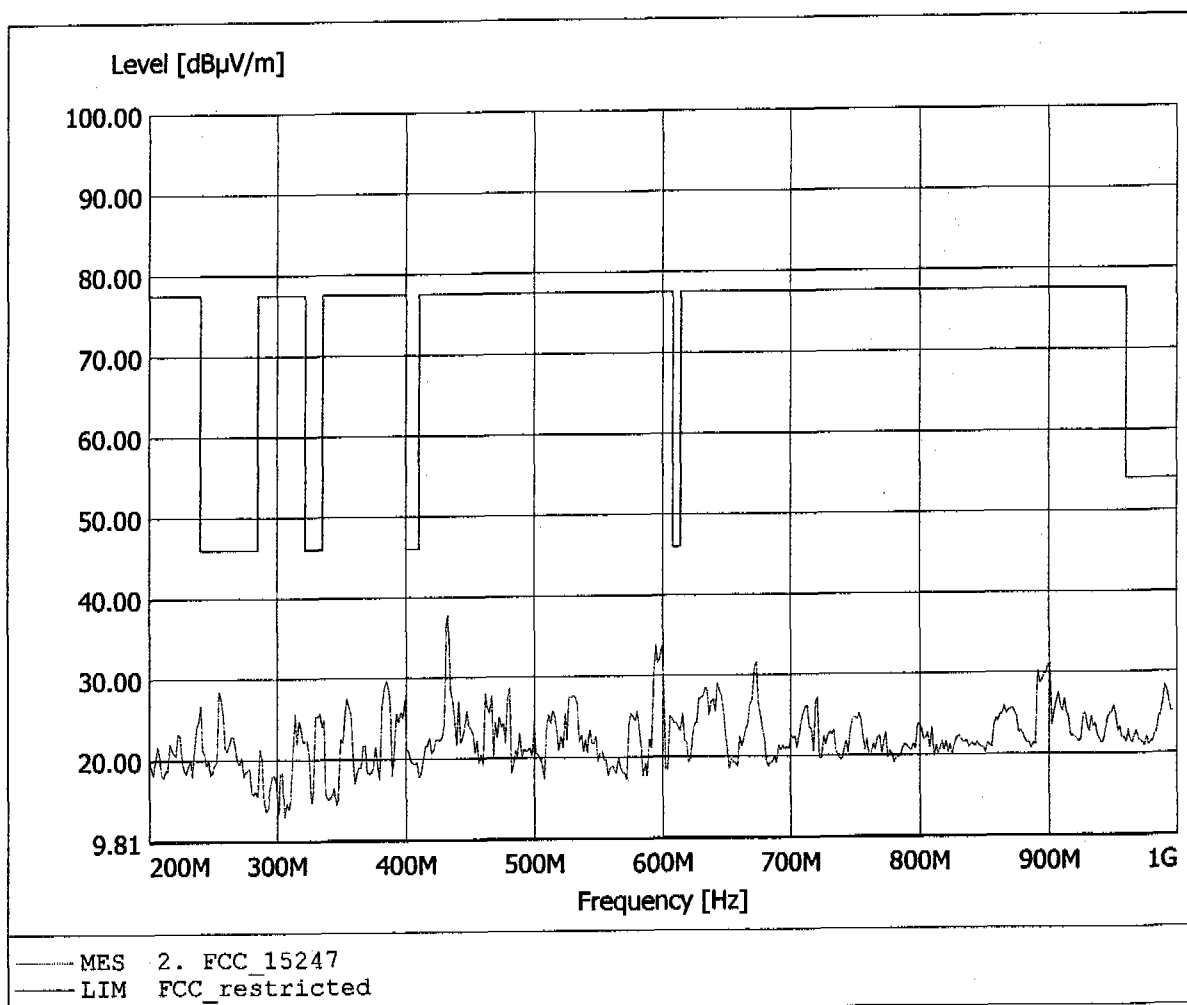
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 254.509MHz, Emax: 34.70dBµV/m, RBW: 100kHz



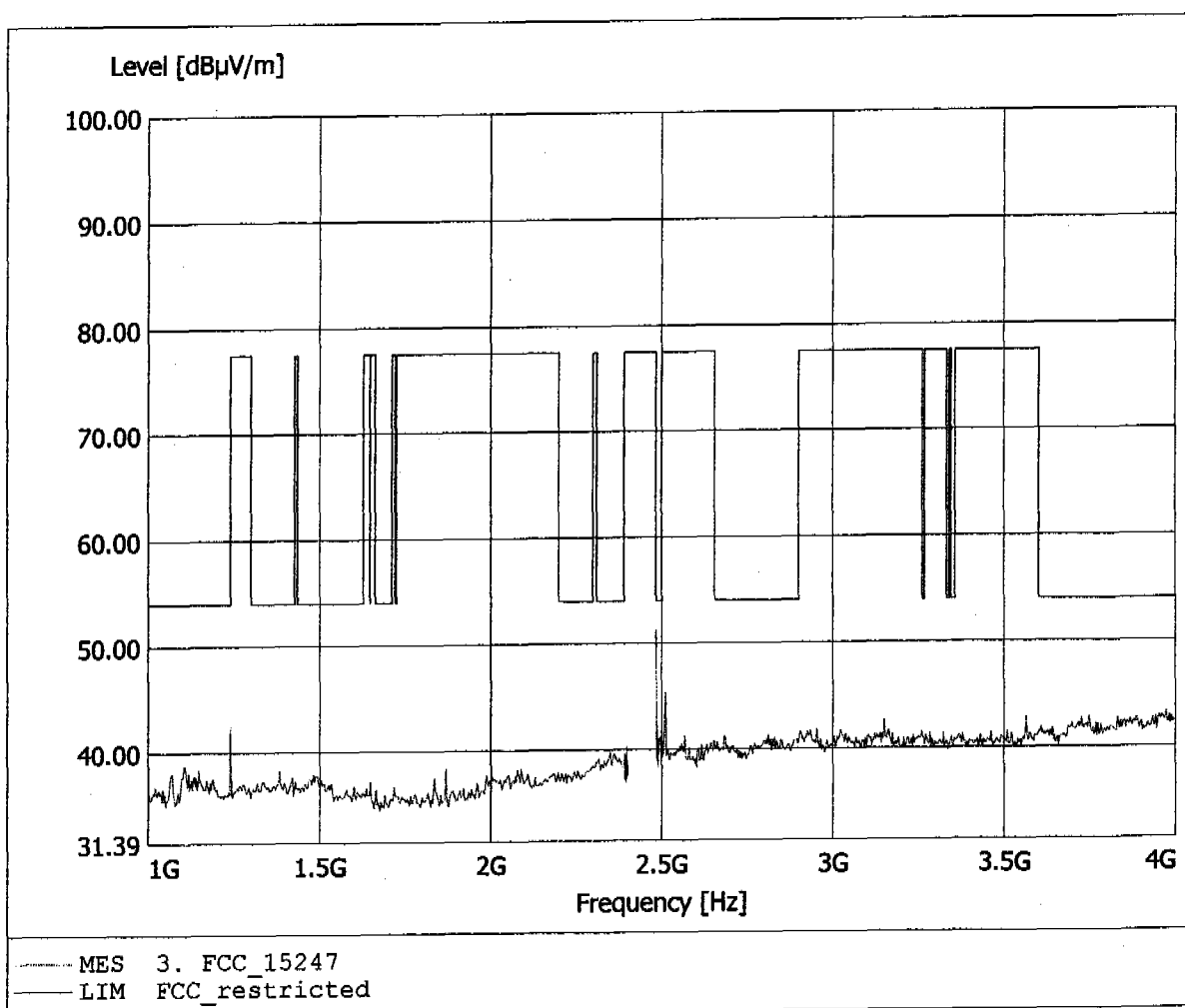
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to S15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 432.465MHz, Emax: 37.83dBμV/m, RBW: 100kHz



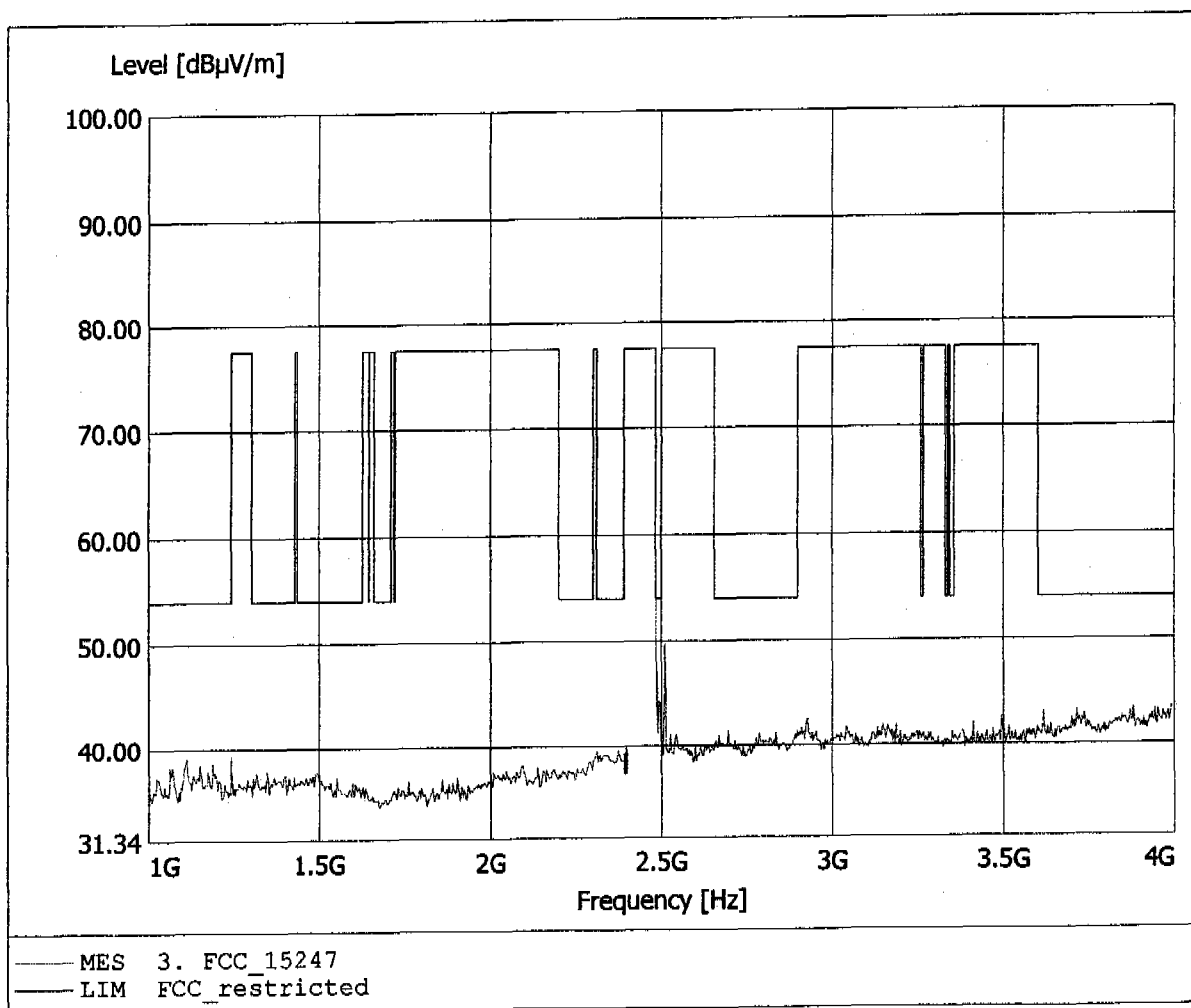
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.484GHz, Emax: 51.27dBμV/m, RBW: 1MHz



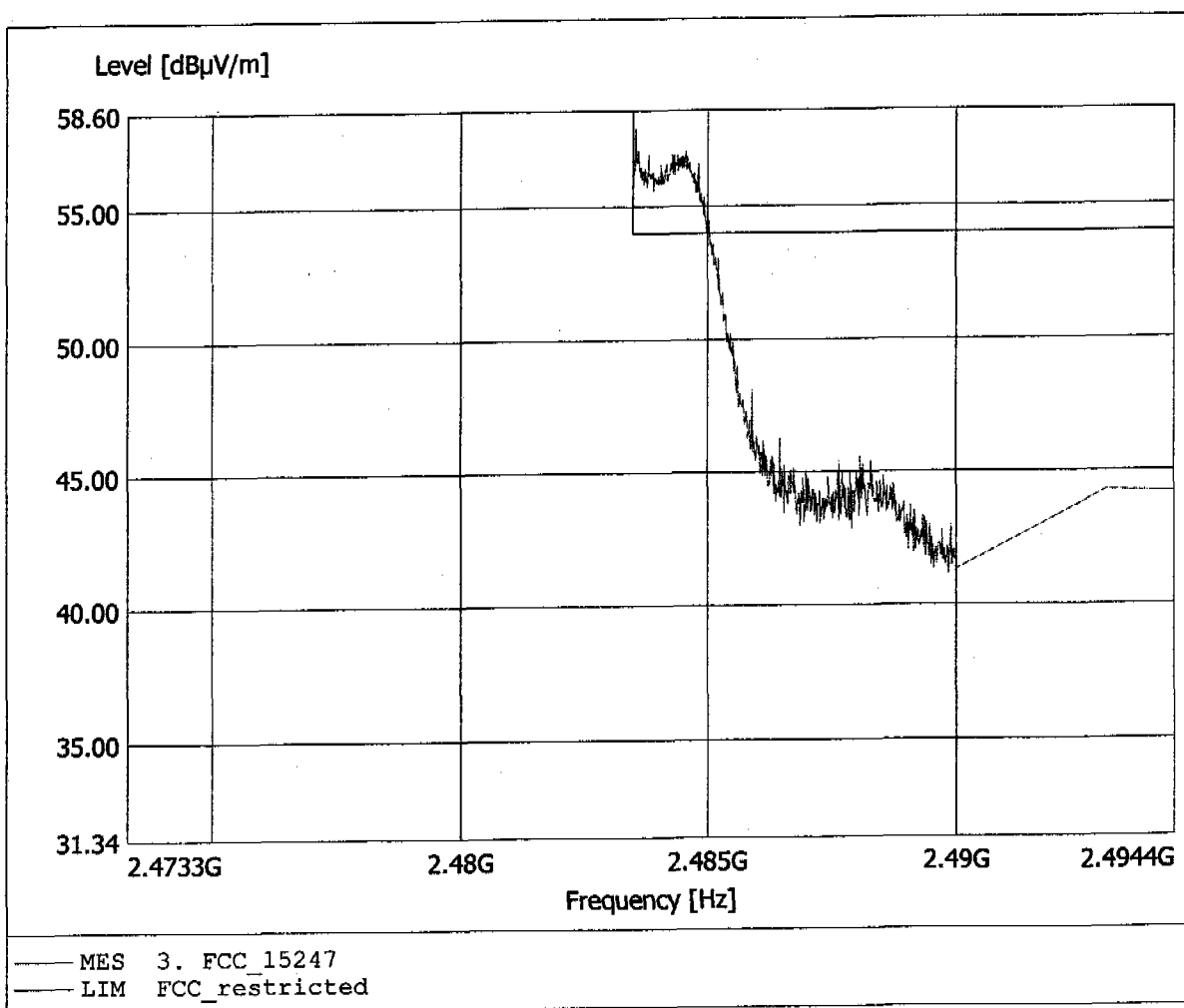
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.484GHz, Emax: 57.94dBμV/m, RBW: 1MHz



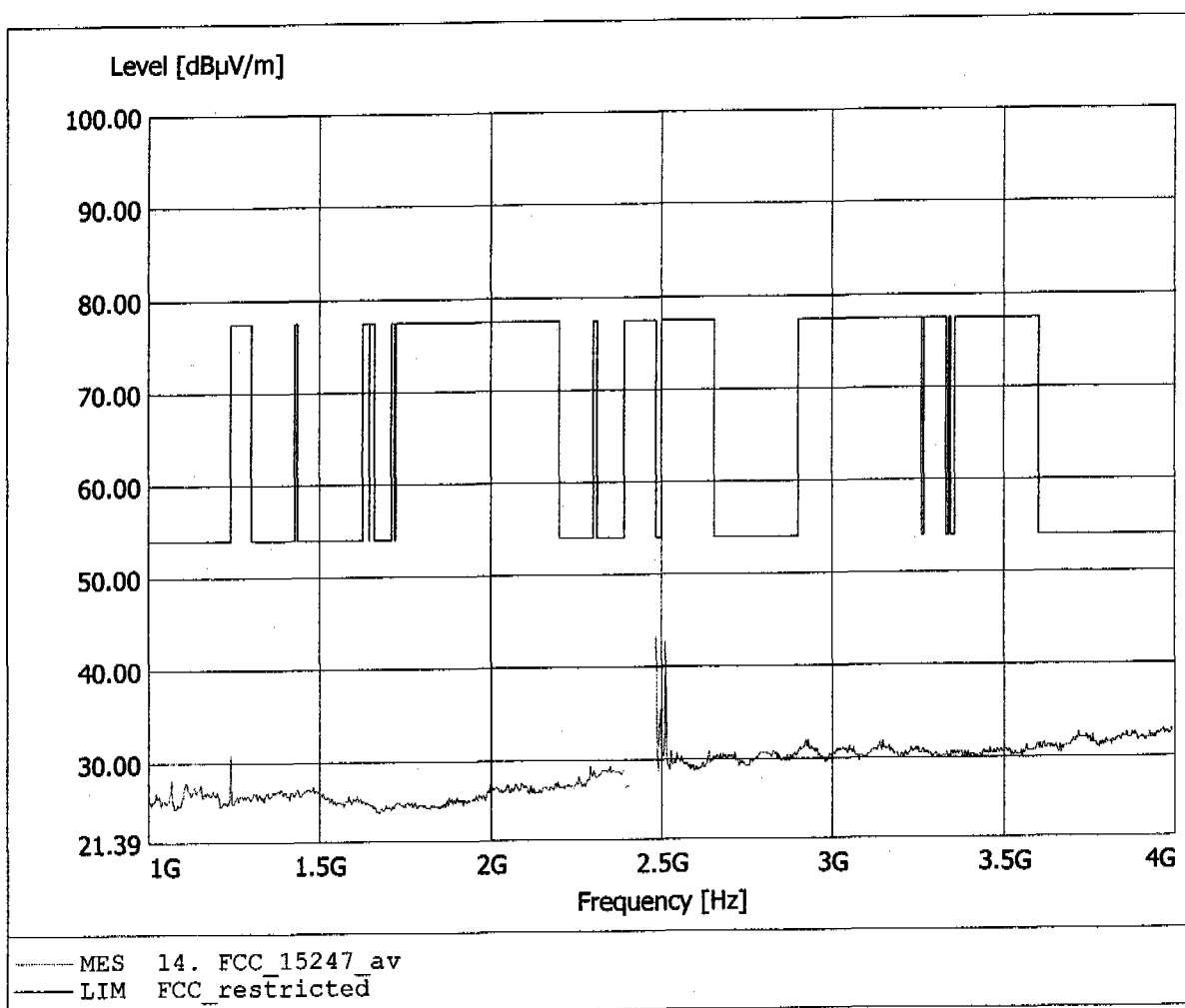
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.484GHz, Emax: 57.94dBμV/m, RBW: 1MHz



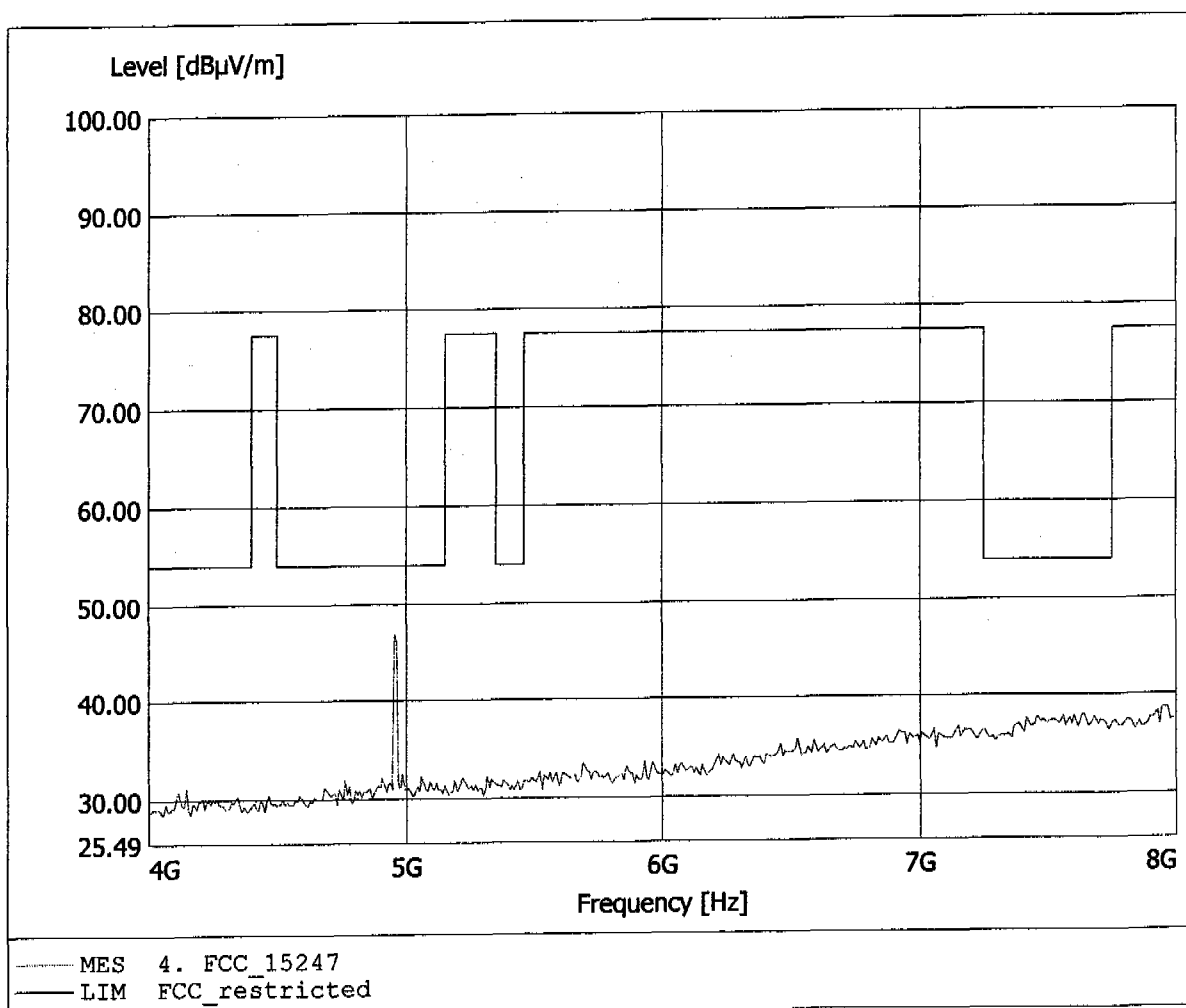
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.484GHz, Emax: 43.40dBμV/m, RBW: 1MHz



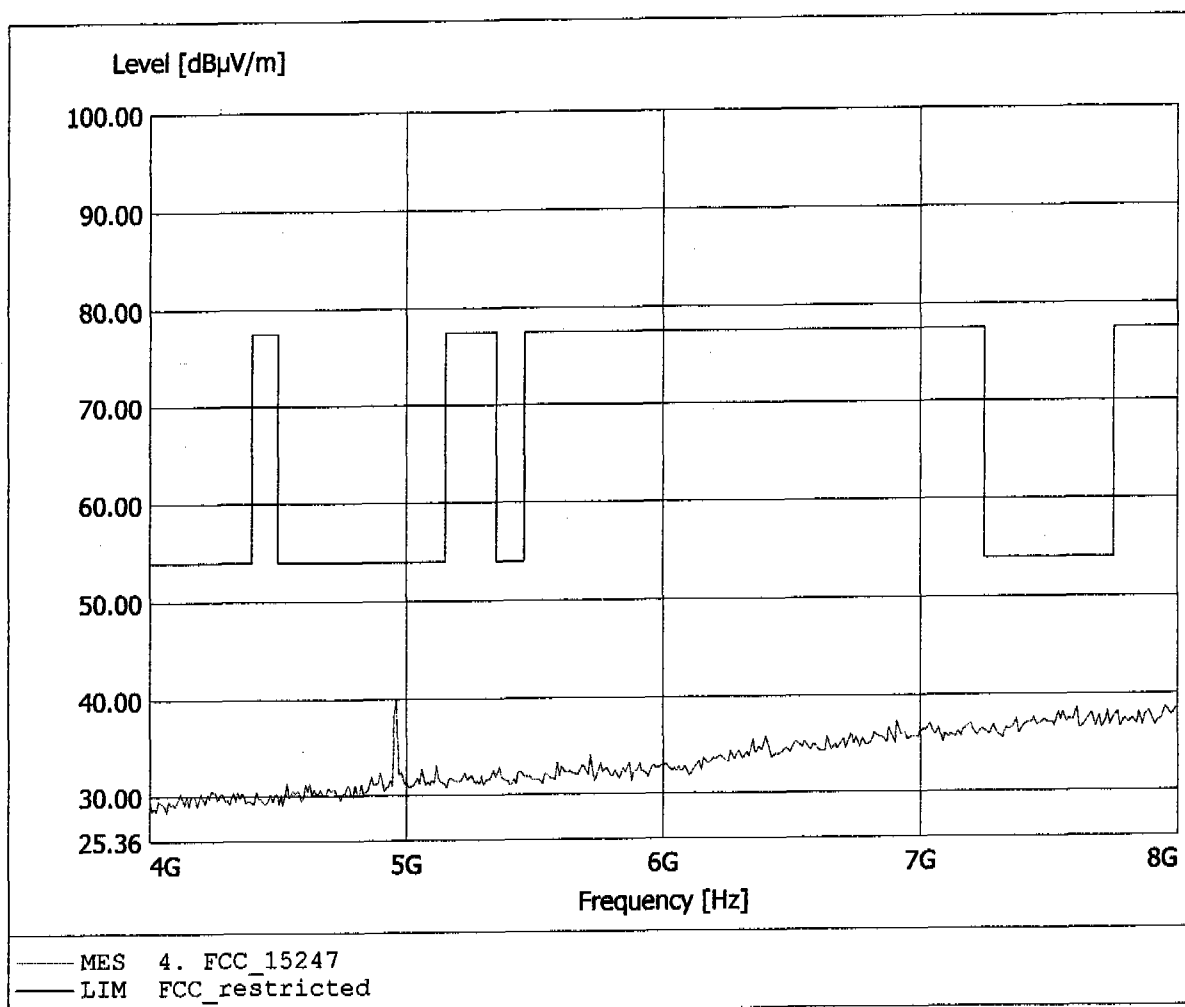
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.954GHz, Emax: 46.82dBμV/m, RBW: 1MHz



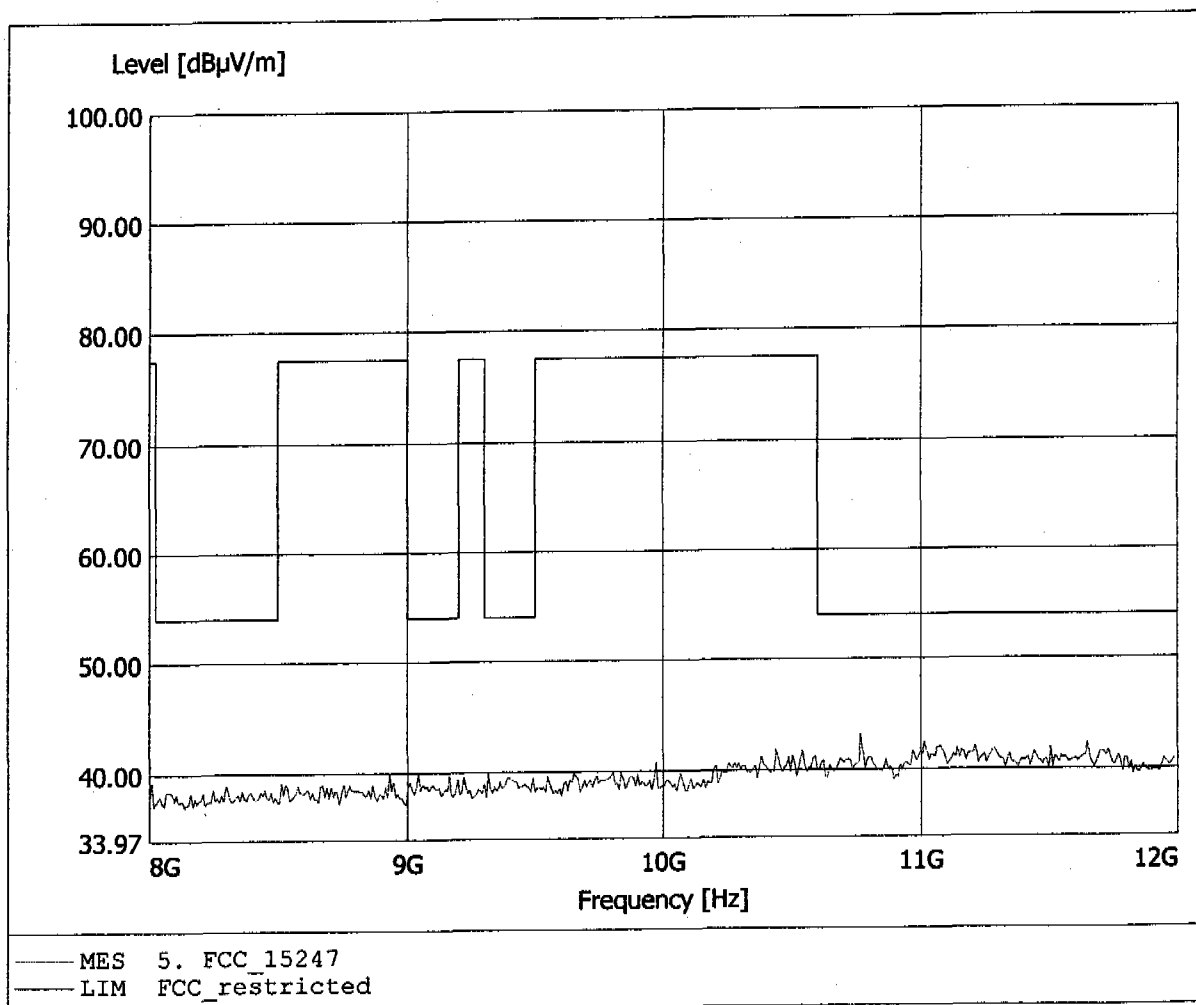
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to S15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.962GHz, Emax: 40.06dBuV/m, RBW: 1MHz



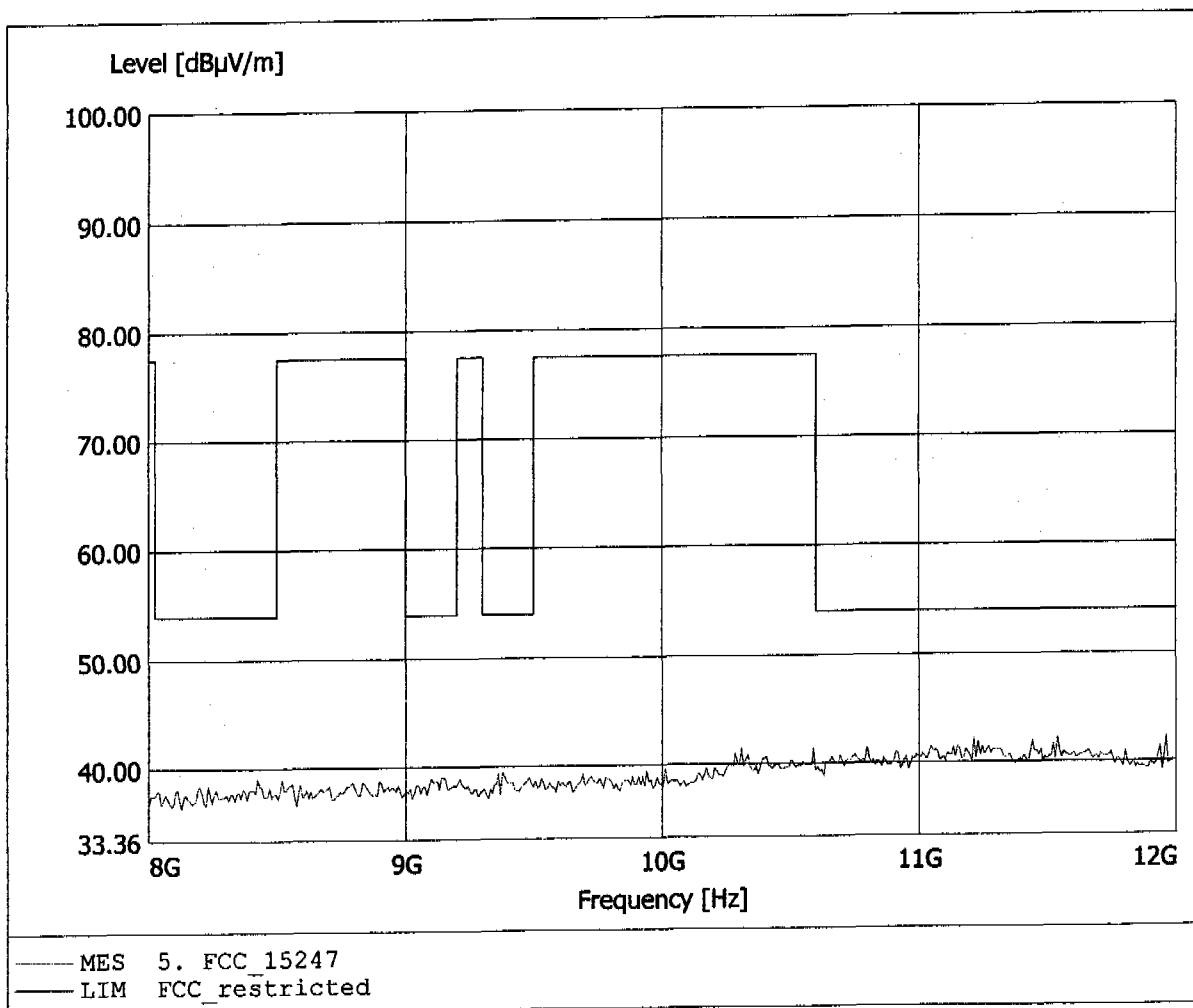
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 10.766GHz, Emax: 43.16dBuV/m, RBW: 1MHz



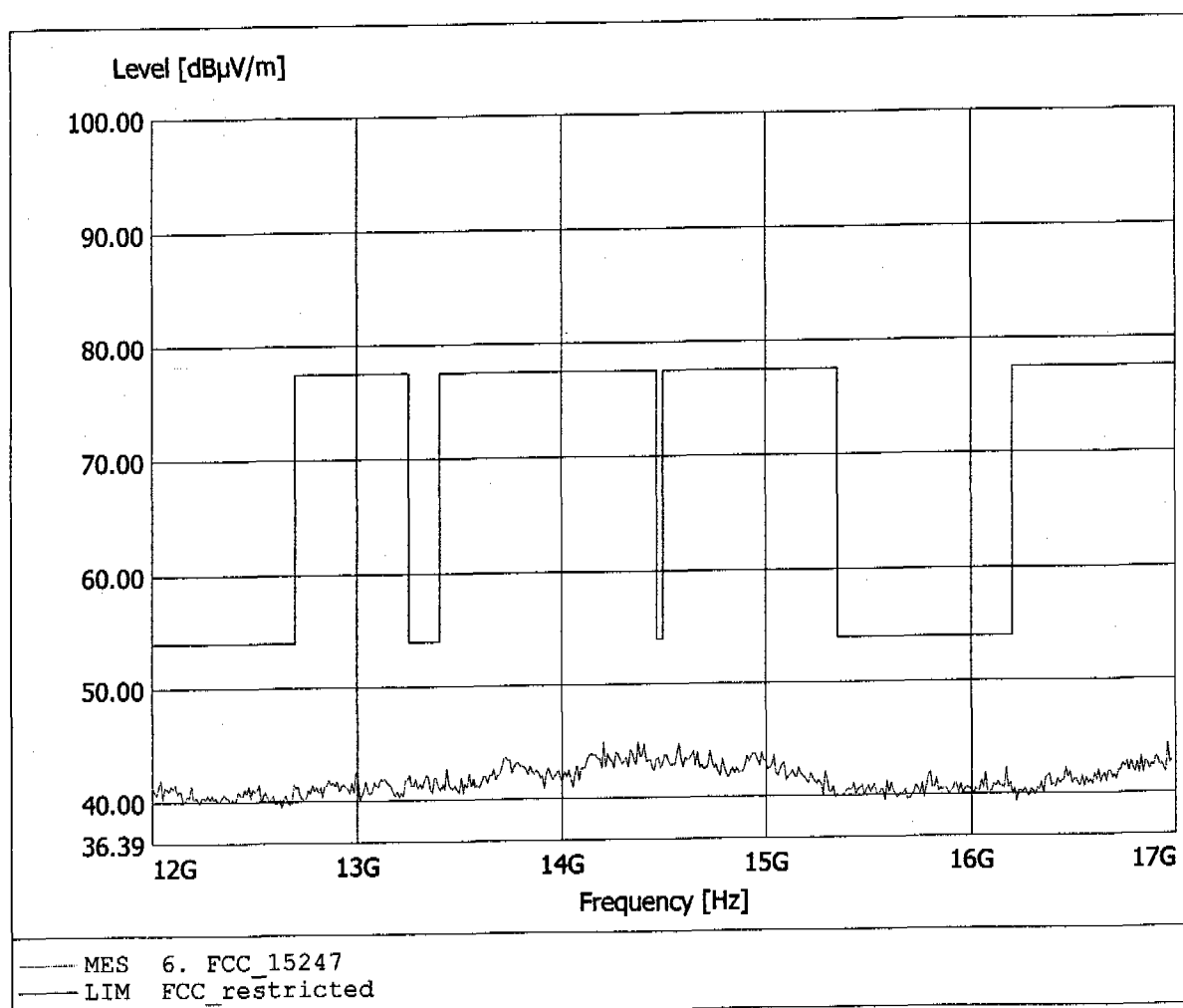
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.960GHz, Emax: 42.25dBμV/m, RBW: 1MHz



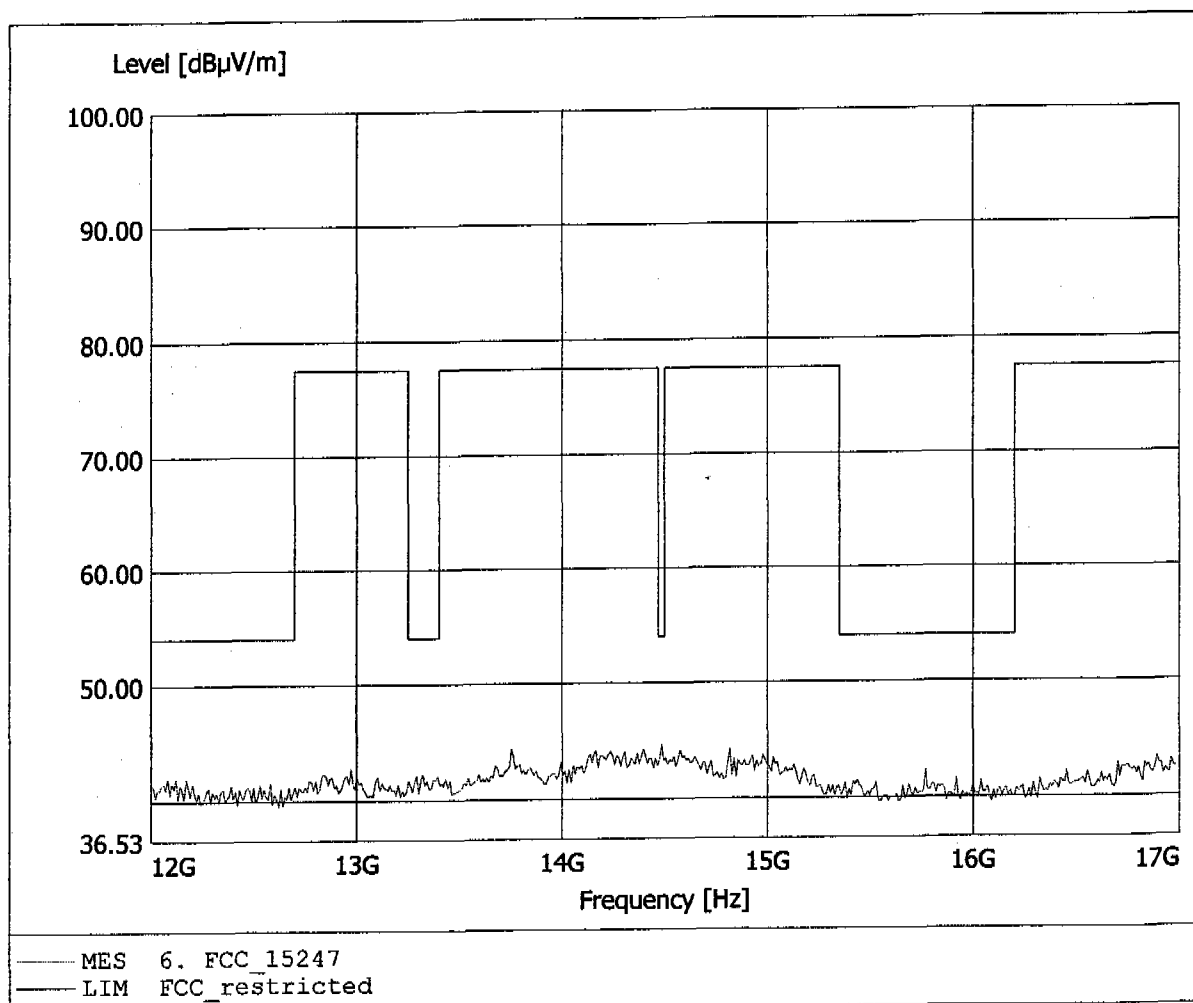
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.375GHz, Emax: 44.93dBµV/m, RBW: 1MHz



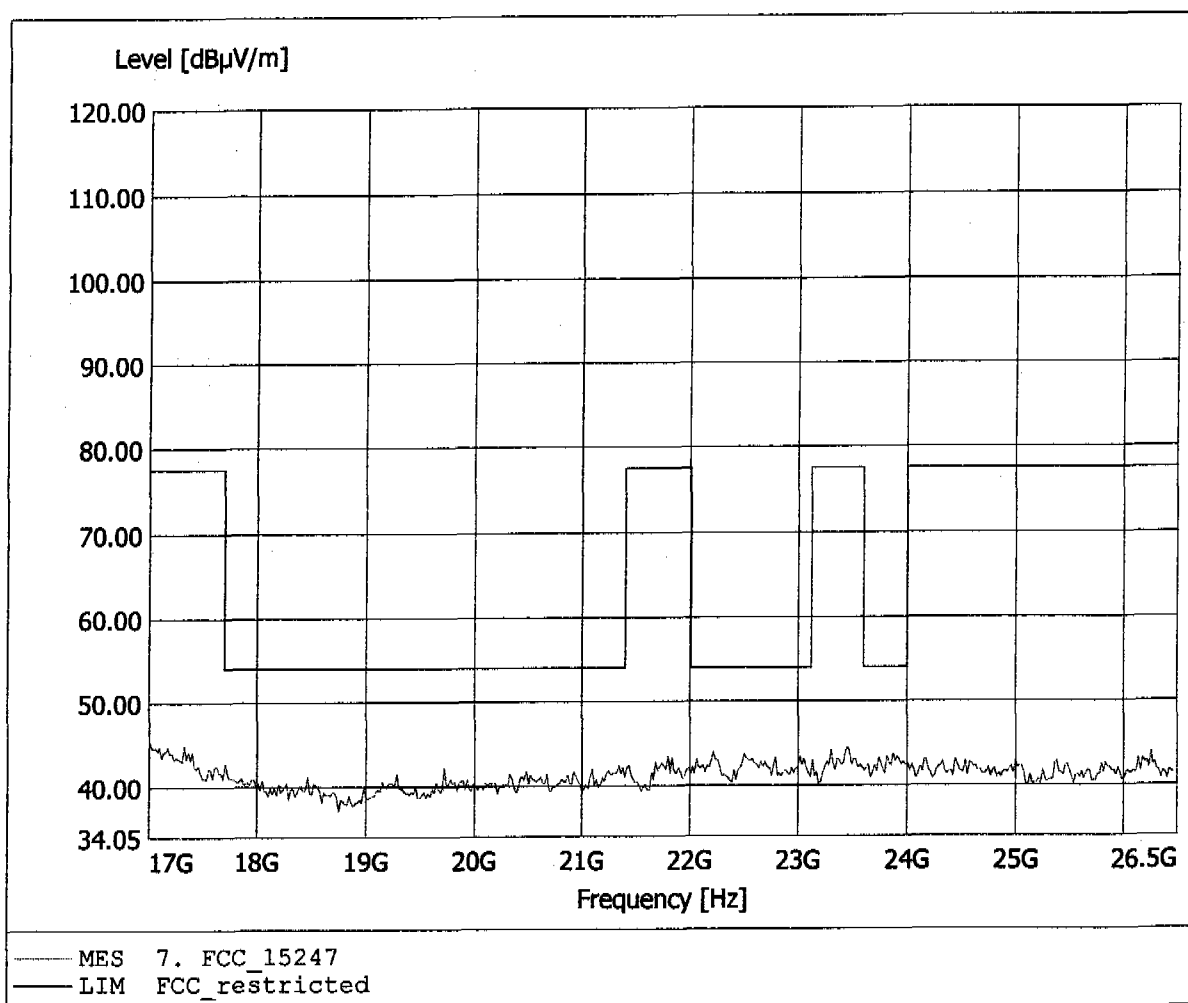
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.485GHz, Emax: 44.68dBμV/m, RBW: 1MHz



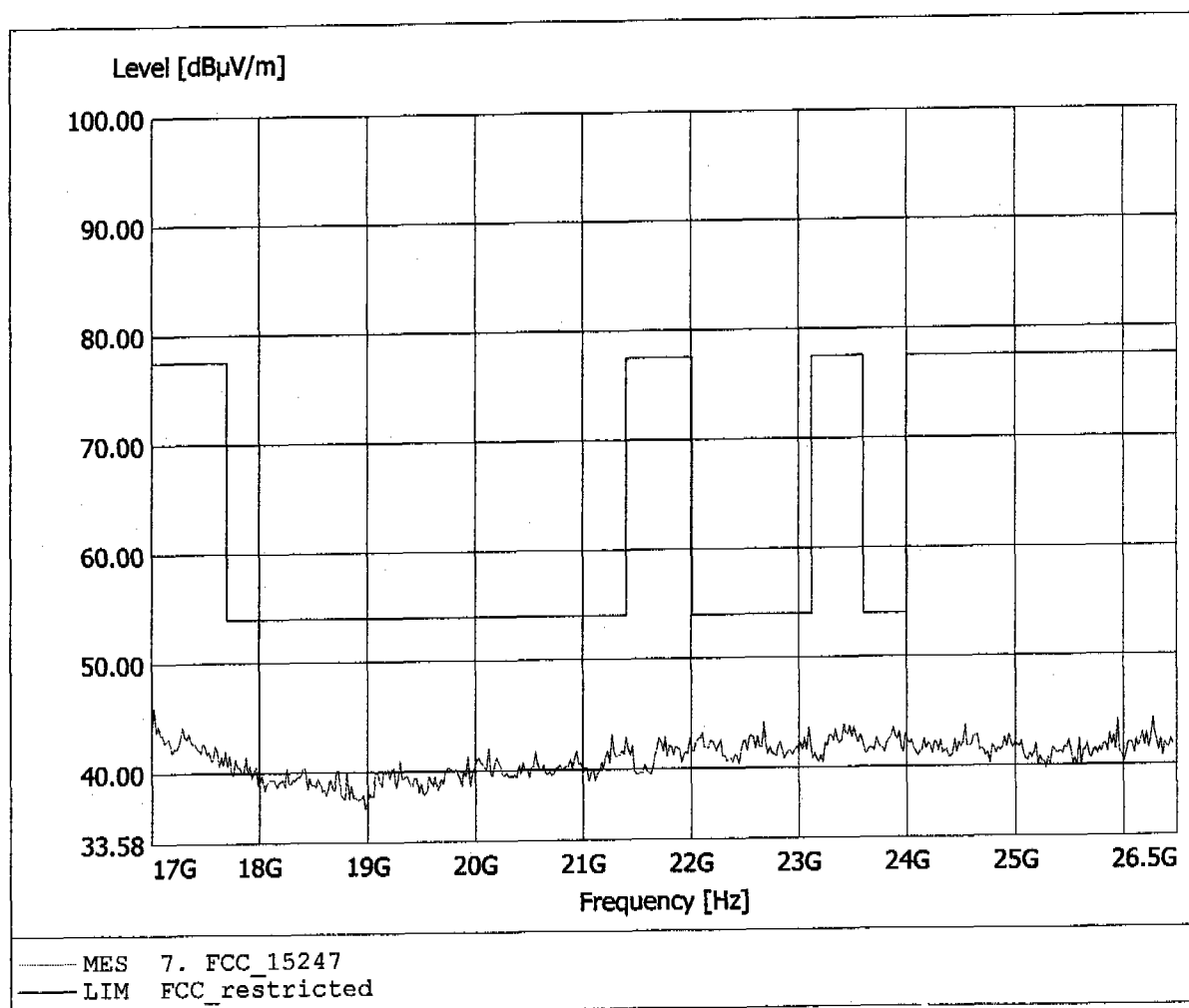
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 17.000GHz, Emax: 45.44dBμV/m, RBW: 1MHz



Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Pulse oximeter display / P max / 2480 MHz
Model: 4000
Approval Holder: Nonin Medical, Inc.
Operating Condition: Tnom: 23°C / Unom: 7.2VDC and AC/DC - Adapter (charger)
Test Site / Operator: ETS / Mr. Handrik
Test Specification: according to S15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 17.019GHz, Emax: 46.02dBuV/m, RBW: 1MHz



Appendix D

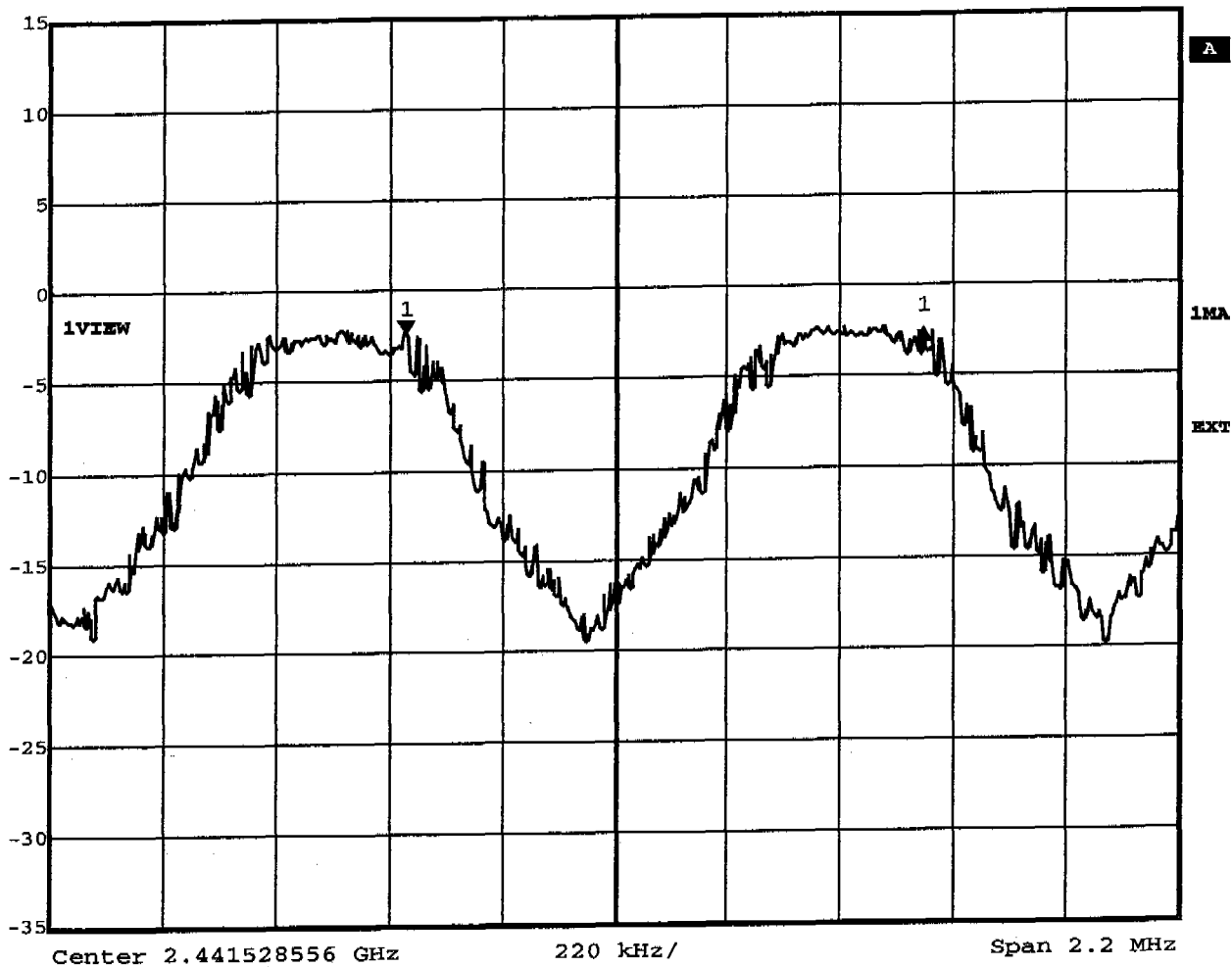
Spurious Emissions conducted - Transmitter operating

Appendix E

Carrier Frequency Separation



Delta 1 [T1] RBW 100 kHz RF Att 40 dB
Ref Lvl -0.12 dB VBW 100 kHz
15 dBm 1.00961924 MHz SWT 5 ms Unit dBm



Title: Carrier Frequency Separation
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 12.AUG.2003 14:49:40

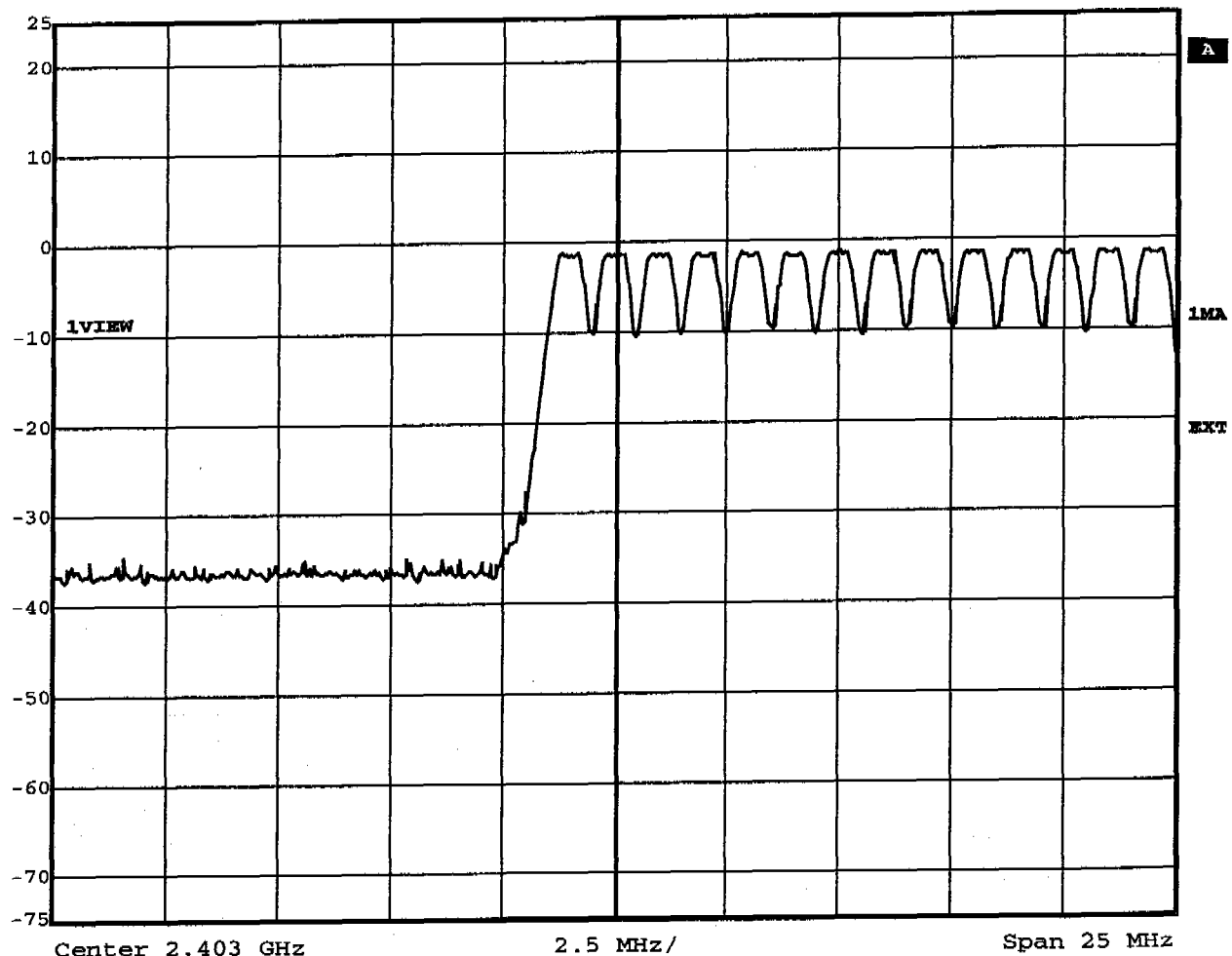
Appendix F

Number of Hopping Frequencies



Ref Lvl
25 dBm

RBW 300 kHz RF Att 50 dB
VBW 300 kHz
SWT 5 ms Unit dBm

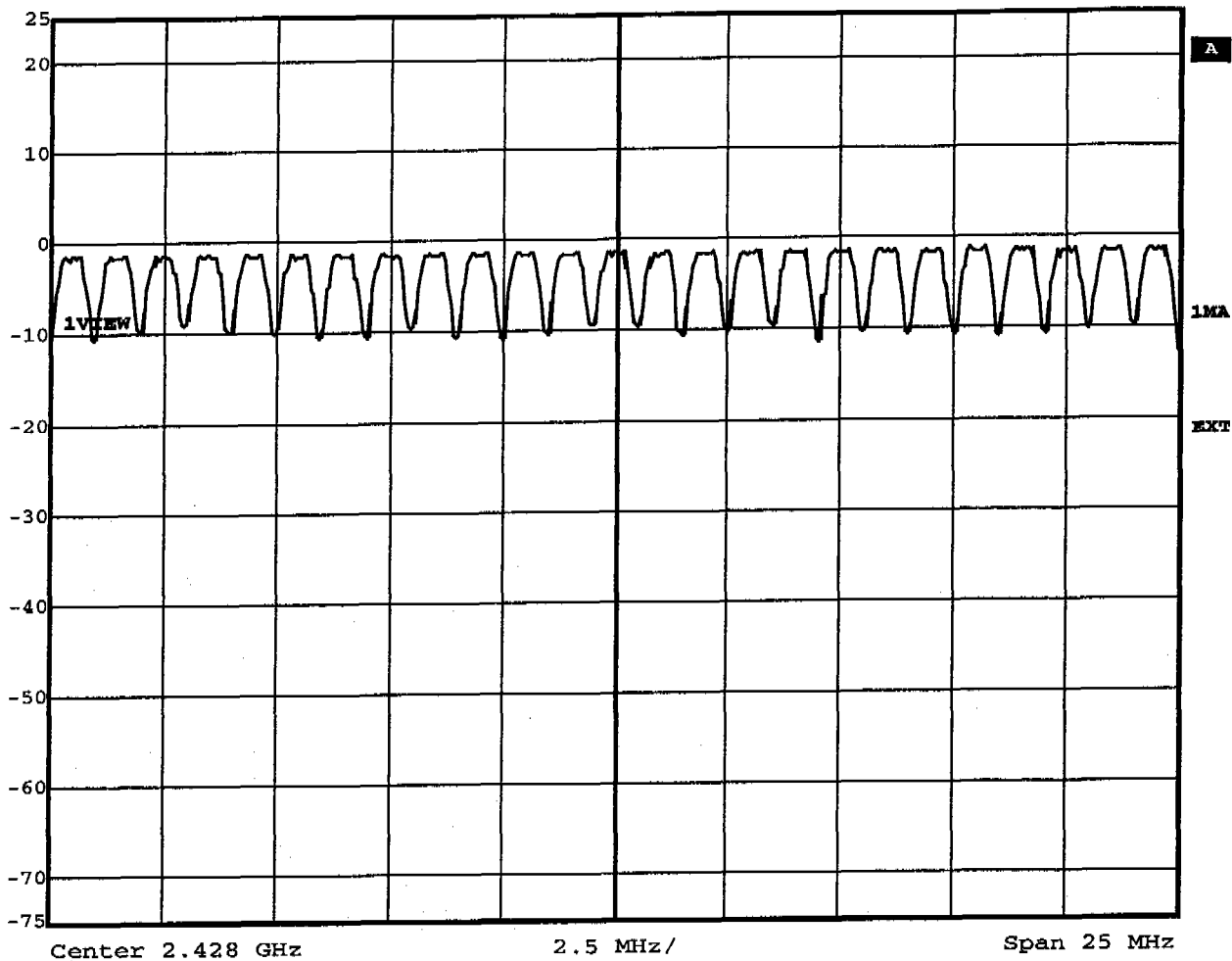


Title: Number of Hopping Frequencies Ch.: 0-13
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 12.AUG.2003 14:55:45



Ref Lvl
25 dBm

RBW 300 kHz RF Att 50 dB
VBW 300 kHz
SWT 5 ms Unit dBm

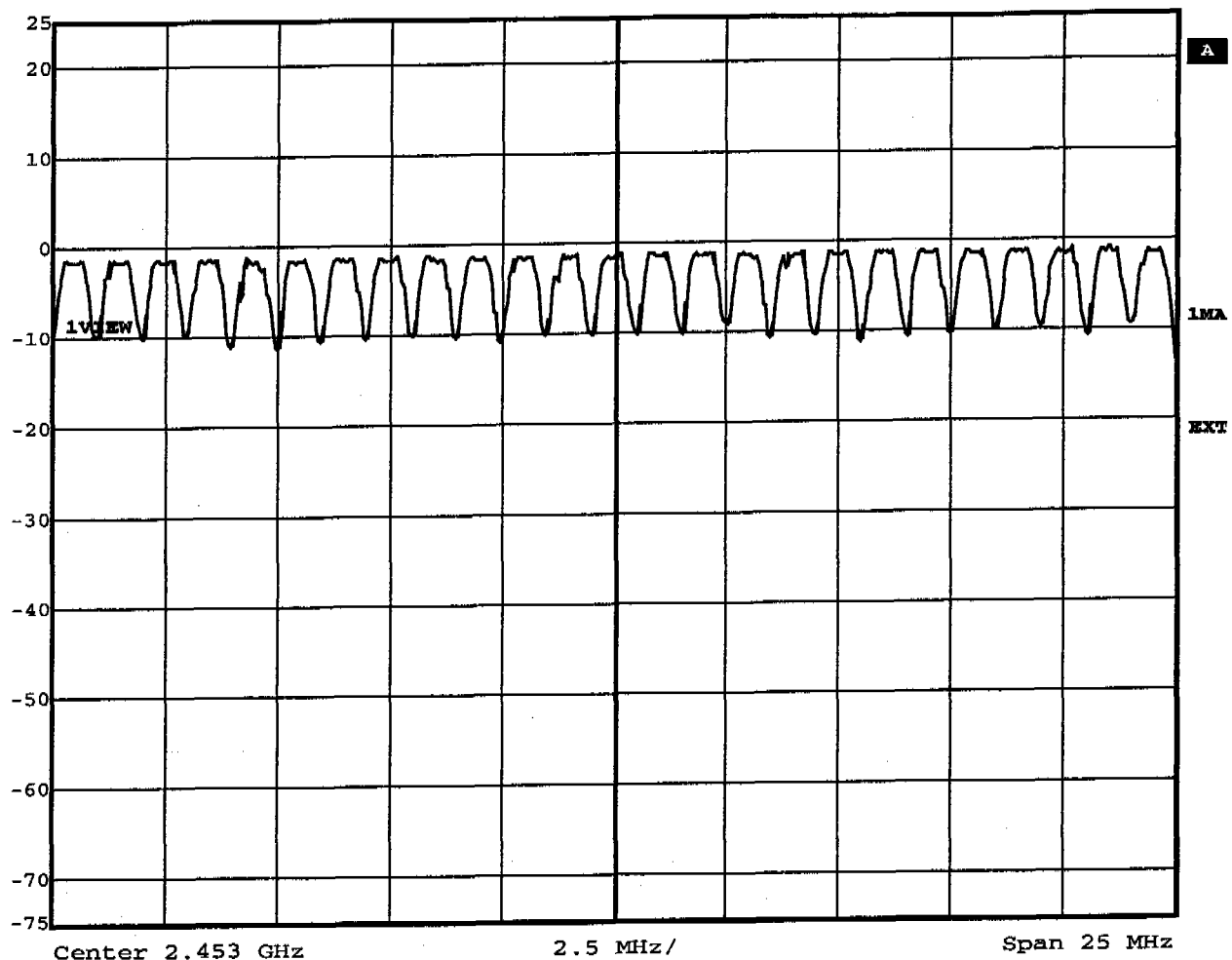


Title: Number of Hopping Frequencies Ch.: 14-38
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 12.AUG.2003 14:57:29



Ref Lvl
25 dBm

RBW 300 kHz RF Att 50 dB
VBW 300 kHz
SWT 5 ms Unit dBm

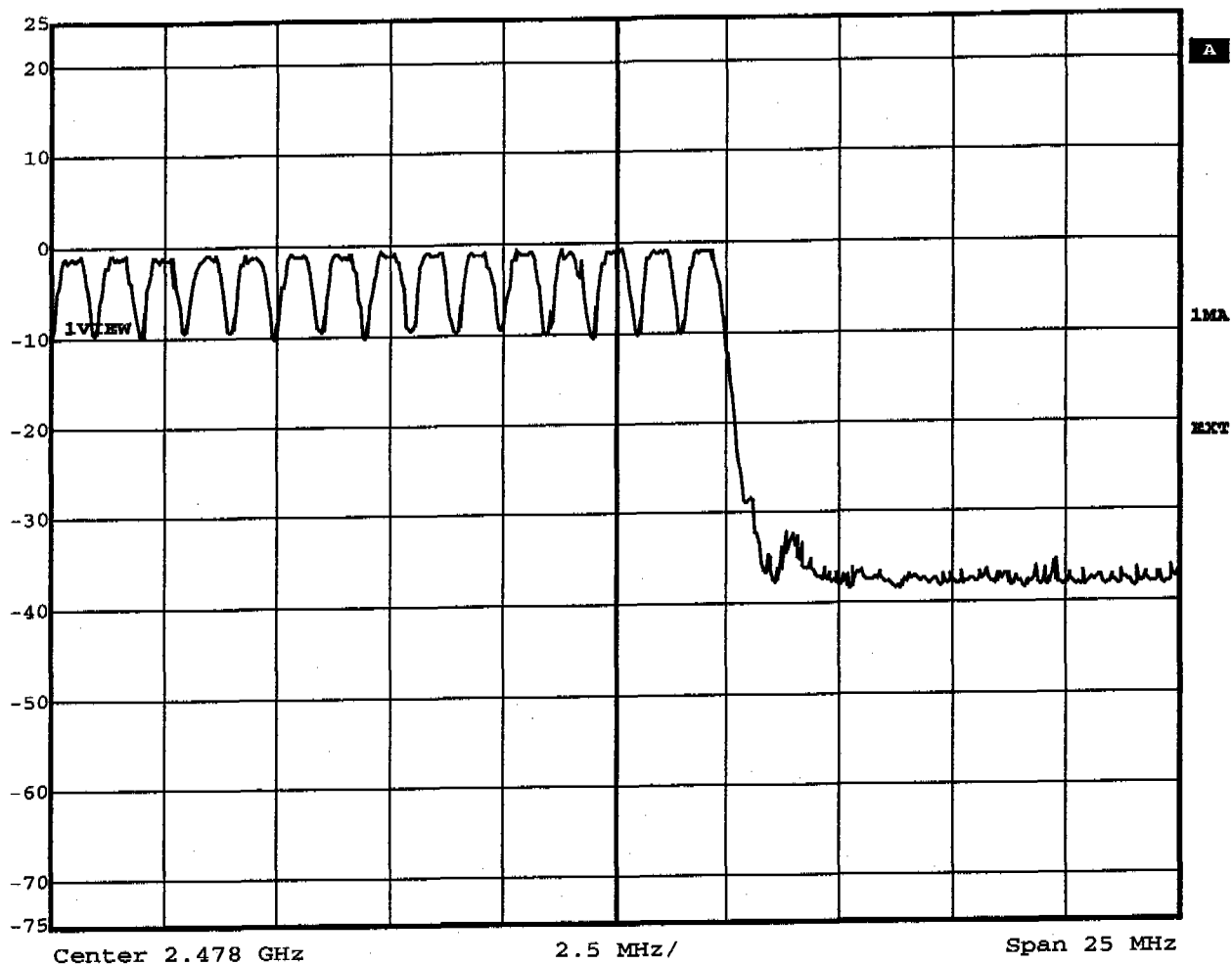


Title: Number of Hopping Frequencies Ch.: 39-63
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 12.AUG.2003 14:59:36



Ref Lvl
25 dBm

RBW 300 kHz RF Att 50 dB
VBW 300 kHz
SWT 5 ms Unit dBm

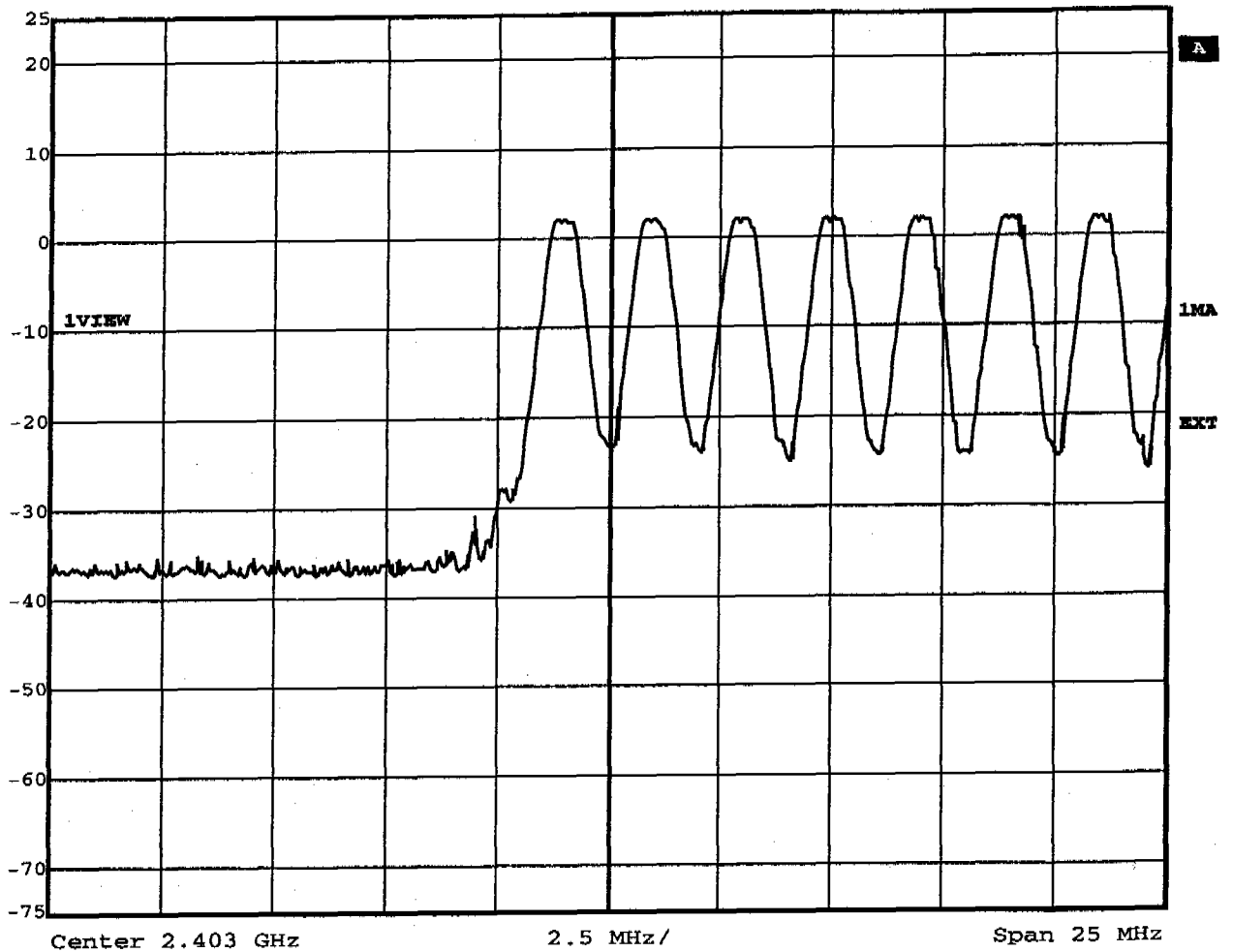


Title: Number of Hopping Frequencies Ch.: 64-78
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 12.AUG.2003 15:01:20



Ref Lvl
25 dBm

RBW 300 kHz RF Att 50 dB
VBW 300 kHz
SWT 5 ms Unit dBm

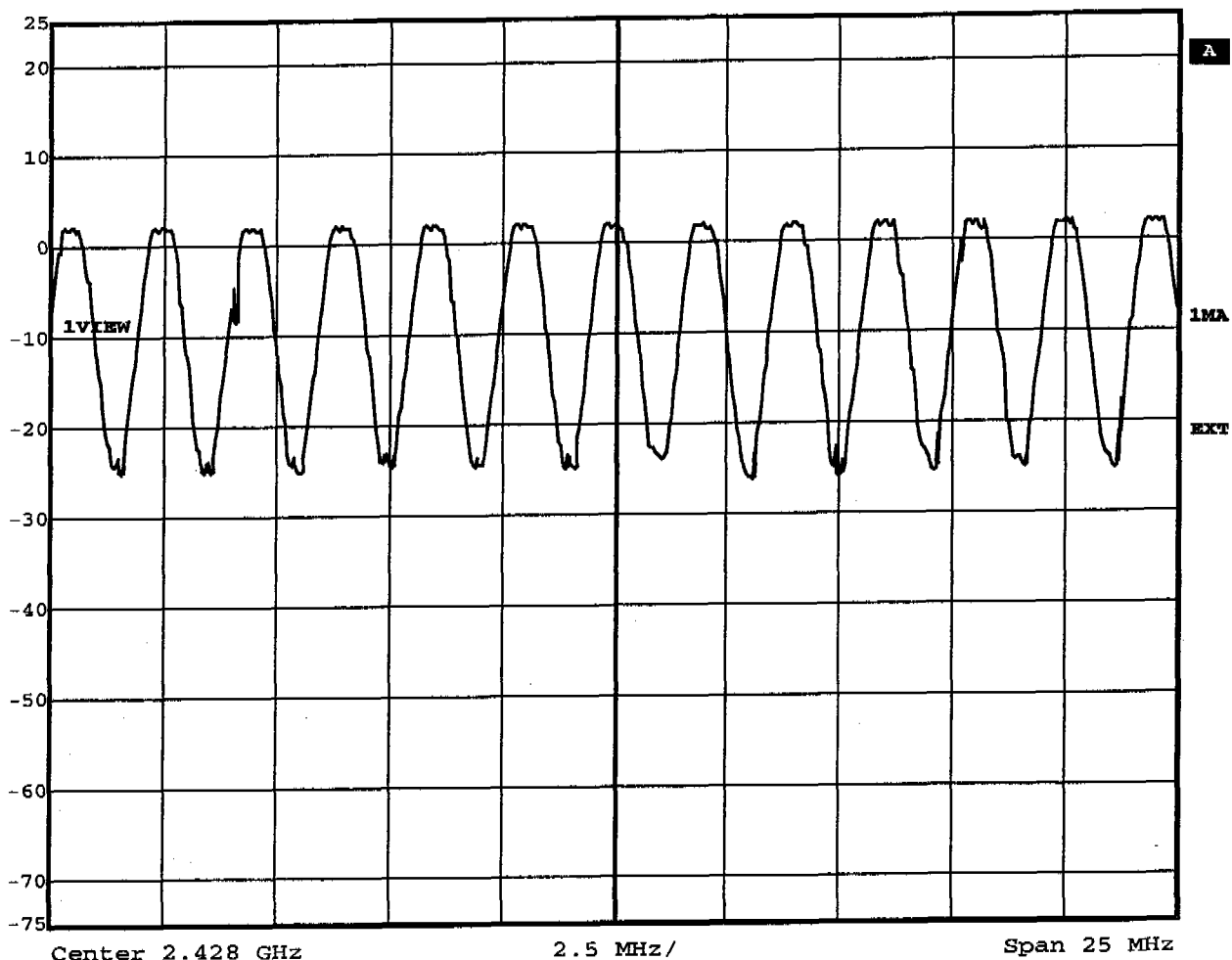


Title: Number of Hopping Frequencies (Master Inquiry Mode)
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 13.AUG.2003 08:30:26



Ref Lvl
25 dBm

RBW 300 kHz RF Att 50 dB
VBW 300 kHz
SWT 5 ms Unit dBm

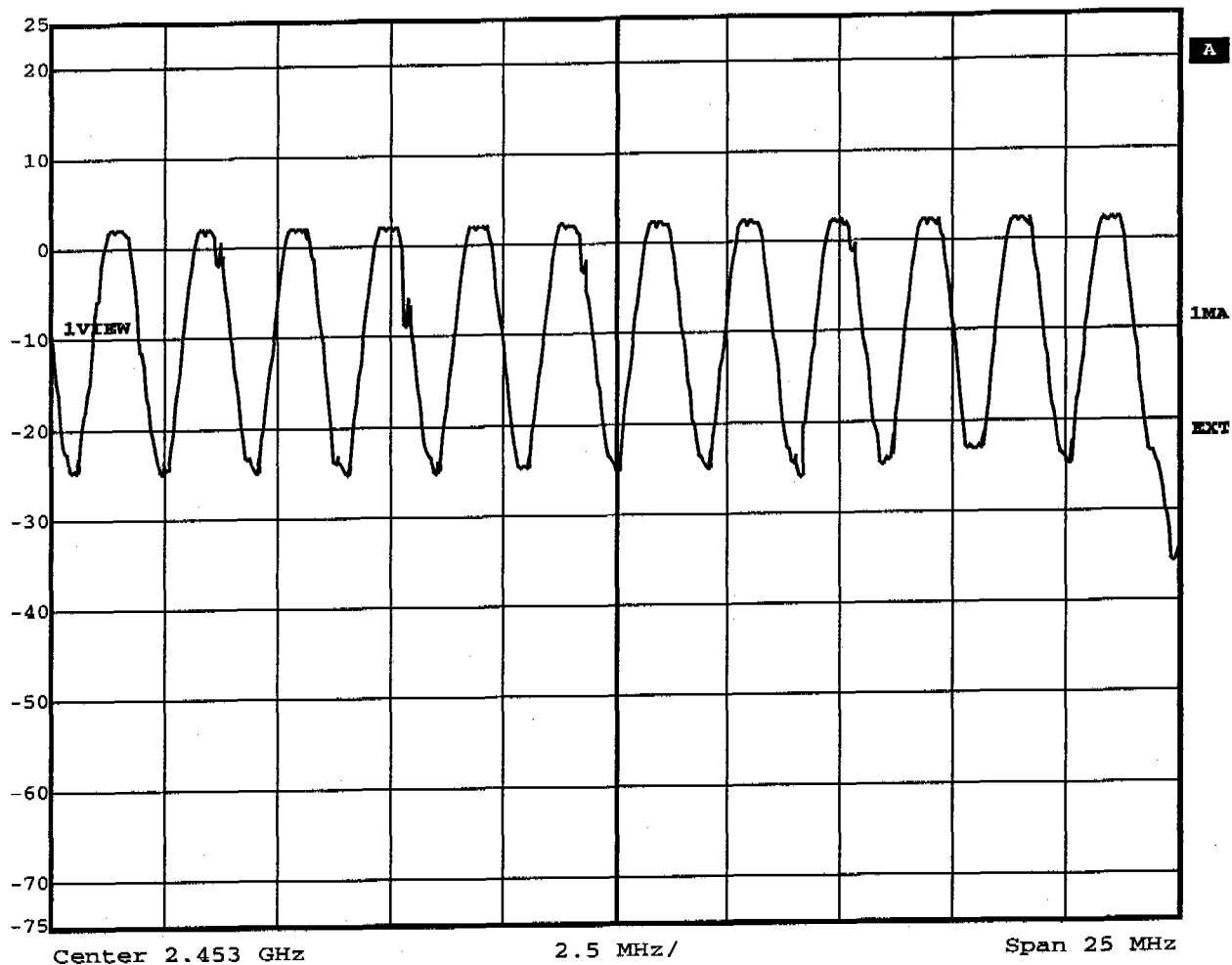


Title: Number of Hopping Frequencies (Master Inquiry Mode)
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 13.AUG.2003 08:32:56



Ref Lvl
25 dBm

RBW 300 kHz RF Att 50 dB
VBW 300 kHz
SWT 5 ms Unit dBm

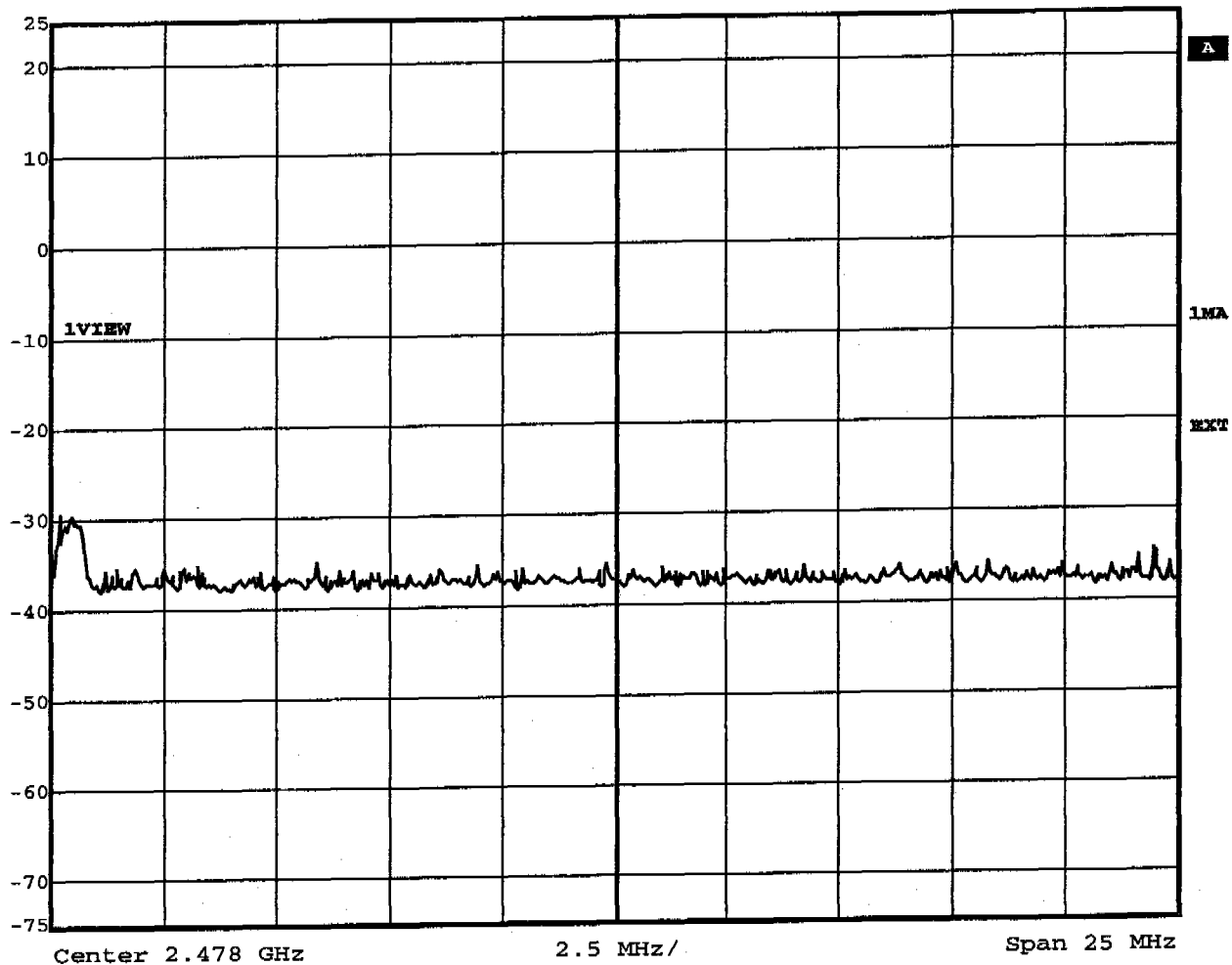


Title: Number of Hopping Frequencies (Master Inquiry Mode)
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 13.AUG.2003 08:35:19



Ref Lvl
25 dBm

RBW 300 kHz RF Att 50 dB
VBW 300 kHz
SWT 5 ms Unit dBm



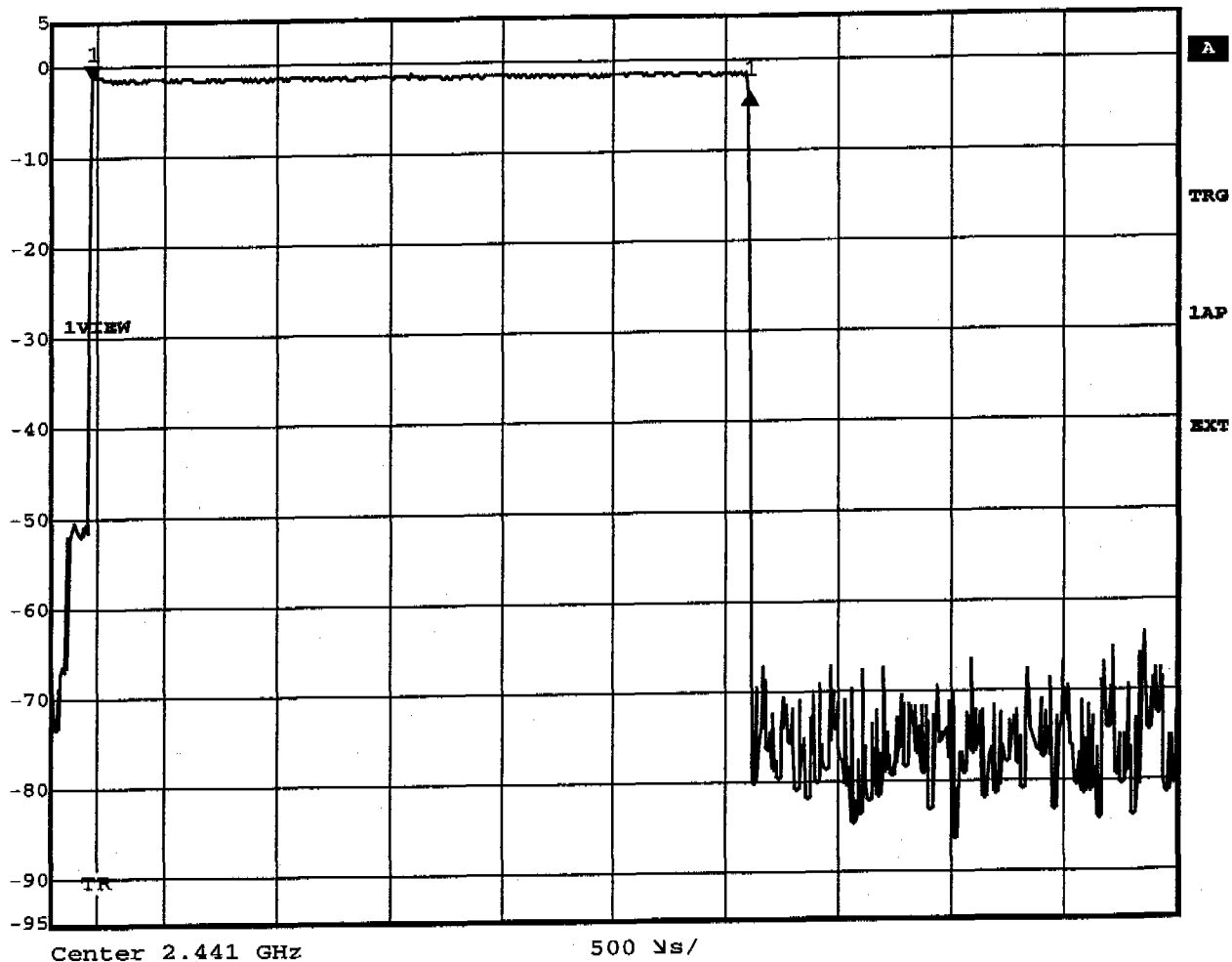
Title: Number of Hopping Frequencies (Master Inquiry Mode)
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 13.AUG.2003 08:37:17

Appendix G

Time of Occupancy (Dwell Time)



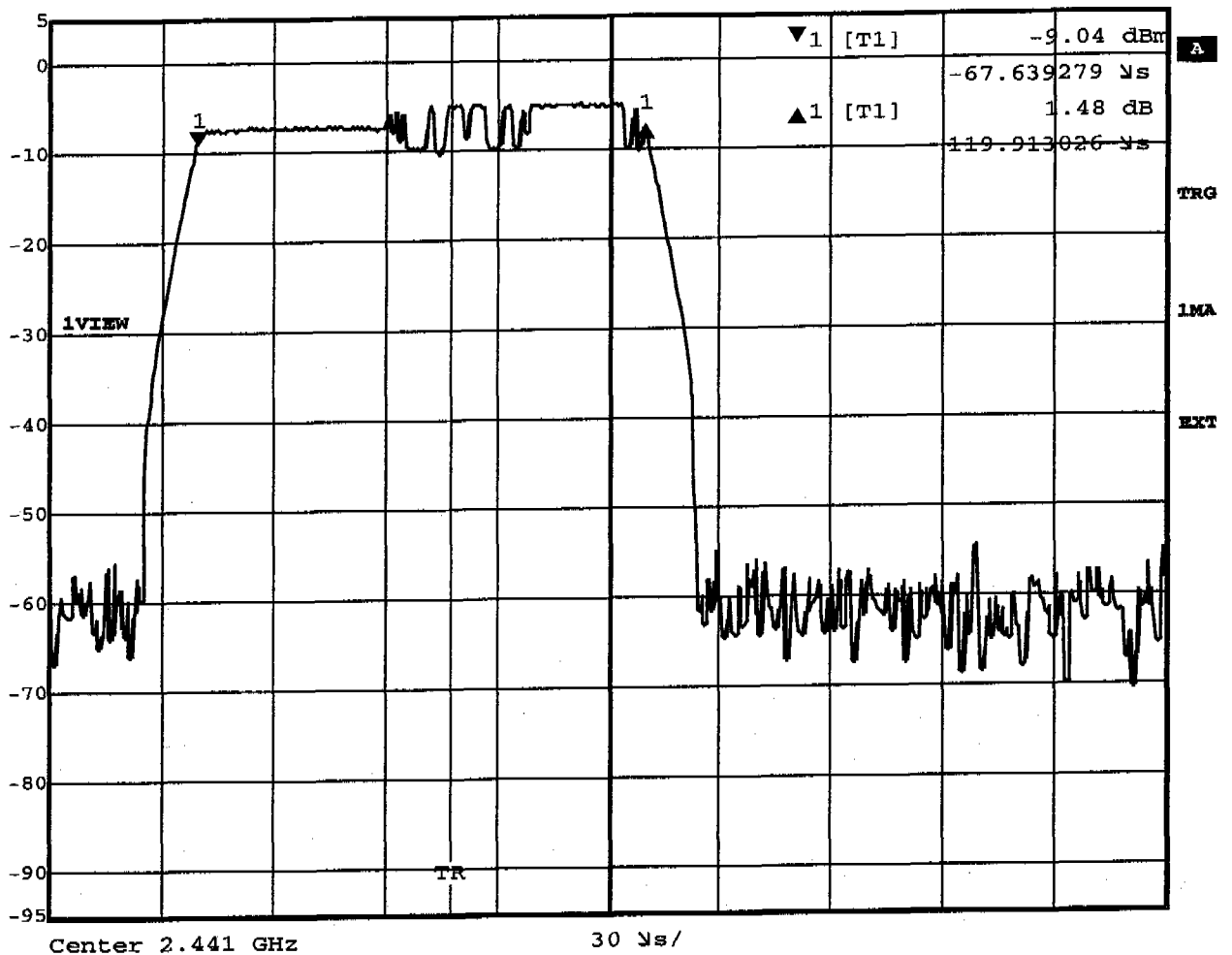
Delta 1 [T1] RBW 1 MHz RF Att 20 dB
Ref Lvl -2.40 dB VBW 1 MHz
5 dBm 2.922709 ms SWT 5 ms Unit dBm



Title: Time of occupancy (Hopping DH5) 64 events * 2.923ms=187.07ms
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 13.AUG.2003 07:49:30



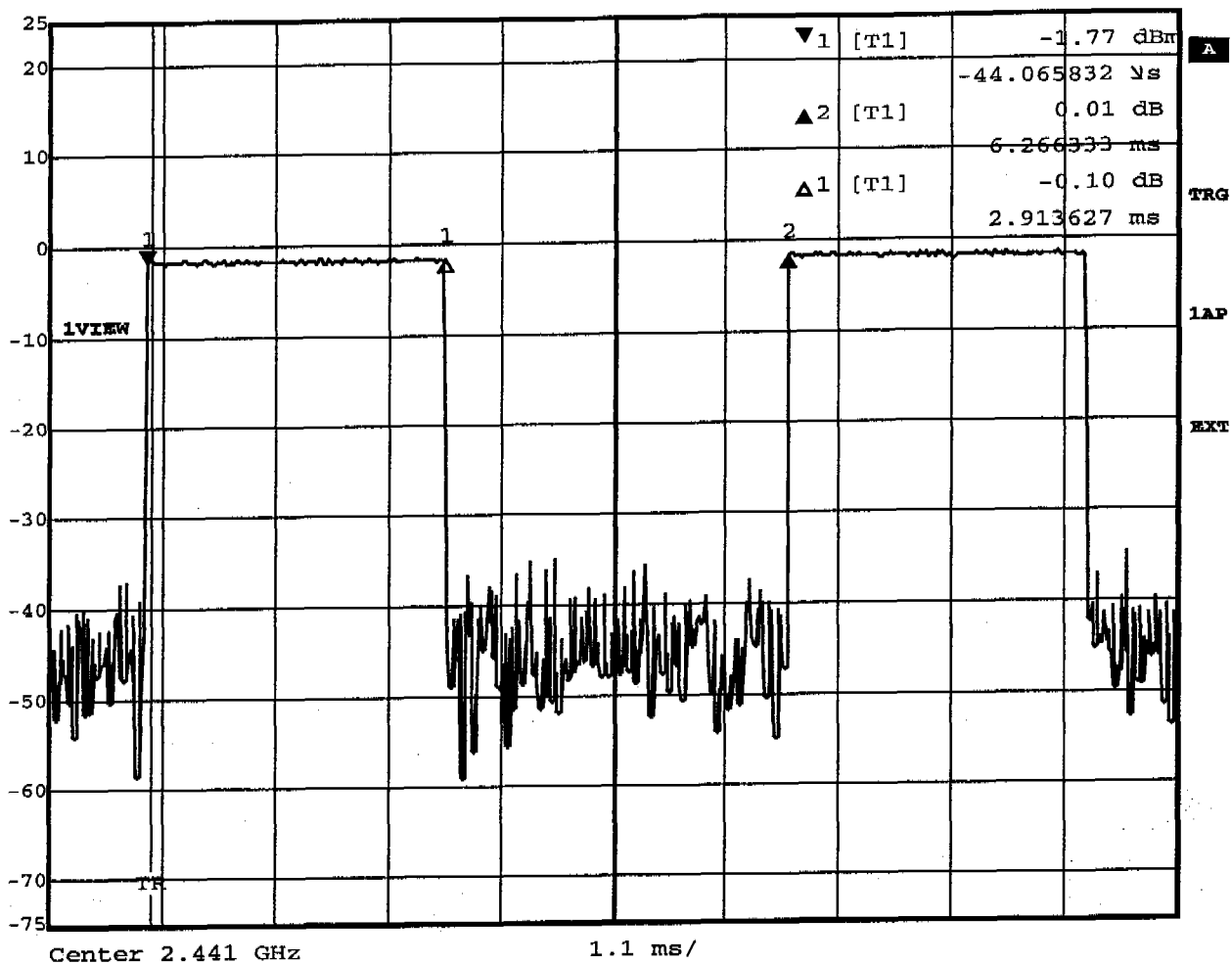
Delta 1 [T1] RBW 1 MHz RF Att 30 dB
Ref Lvl 1.48 dB VBW 1 MHz
5 dBm 119.913026 μ s SWT 300 μ s Unit dBm



Title: Time of occupancy (Inquiry mode) 487 events * 0.120ms=58.4ms
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 13.AUG.2003 09:14:10



Delta 2 [T1] RBW 1 MHz RF Att 50 dB
Ref Lvl 0.01 dB VBW 1 MHz
25 dBm 6.266333 ms SWT 11 ms Unit dBm



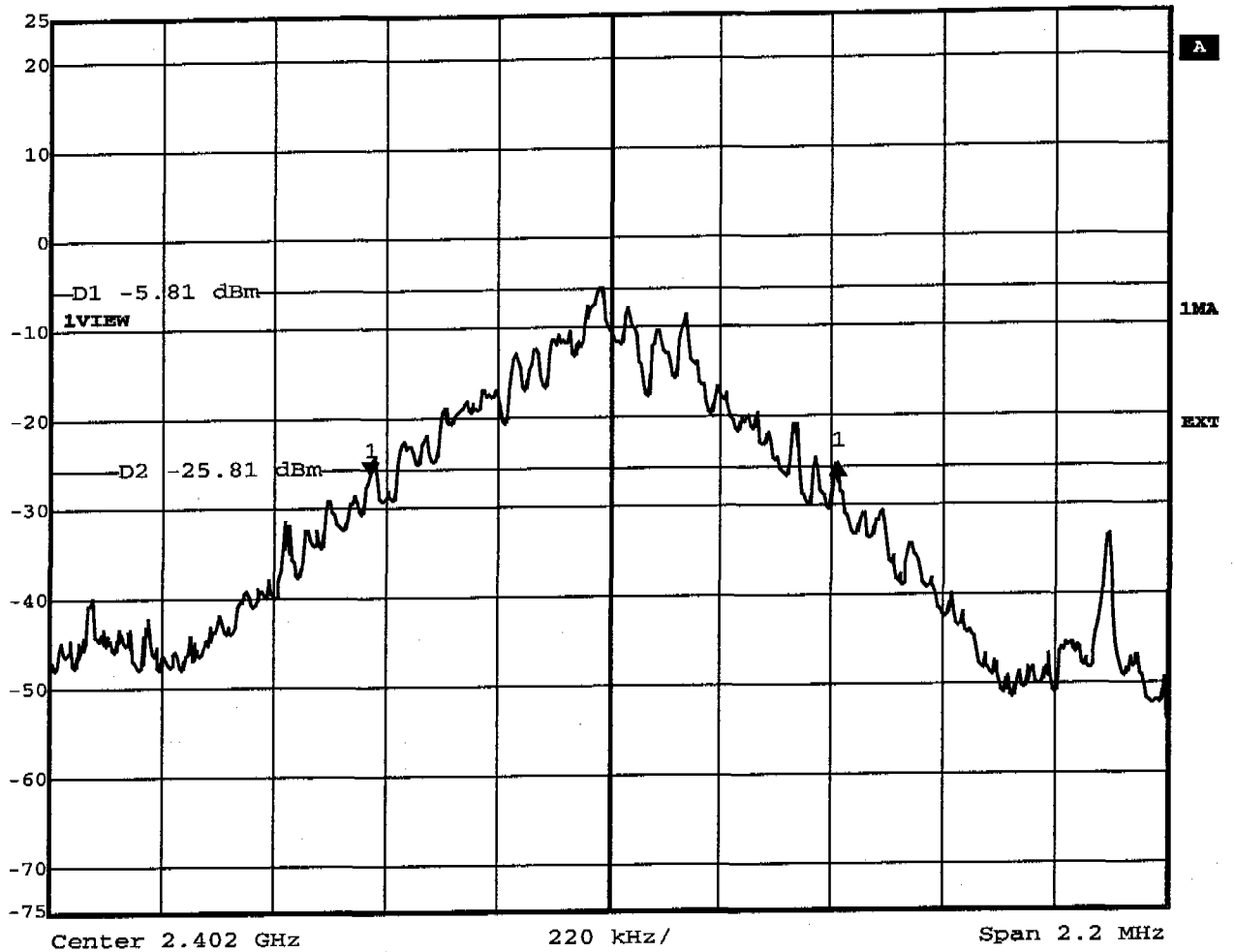
Title: Duty Cycle
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 12.AUG.2003 14:10:41

Appendix H

20dB Bandwidth



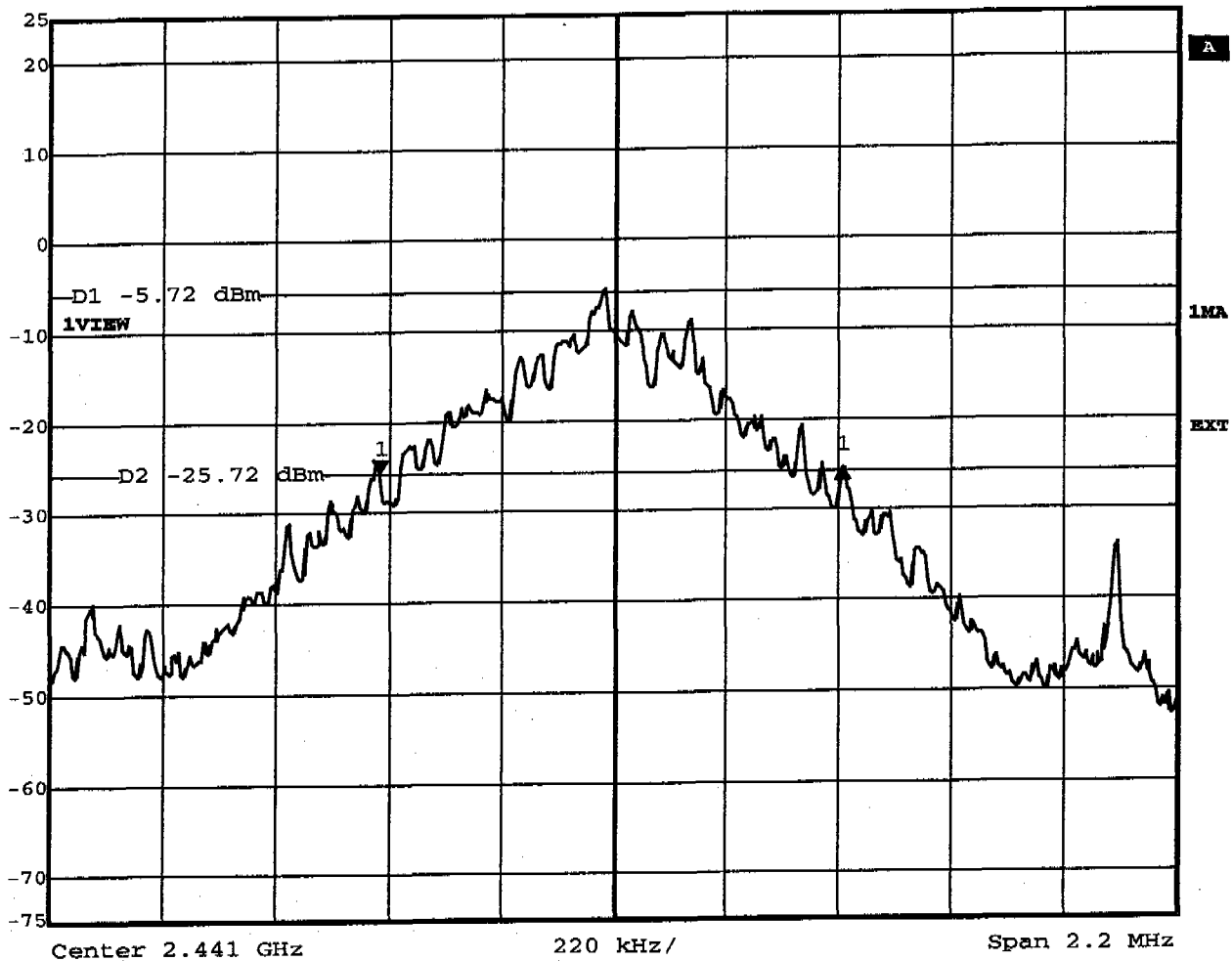
Delta 1 [T1] RBW 10 kHz RF Att 50 dB
Ref Lvl 0.76 dB VBW 10 kHz
25 dBm 921.44288577 kHz SWT 56 ms Unit dBm



Title: -20dB Bandwidth Ch.: 0
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 12.AUG.2003 13:58:11



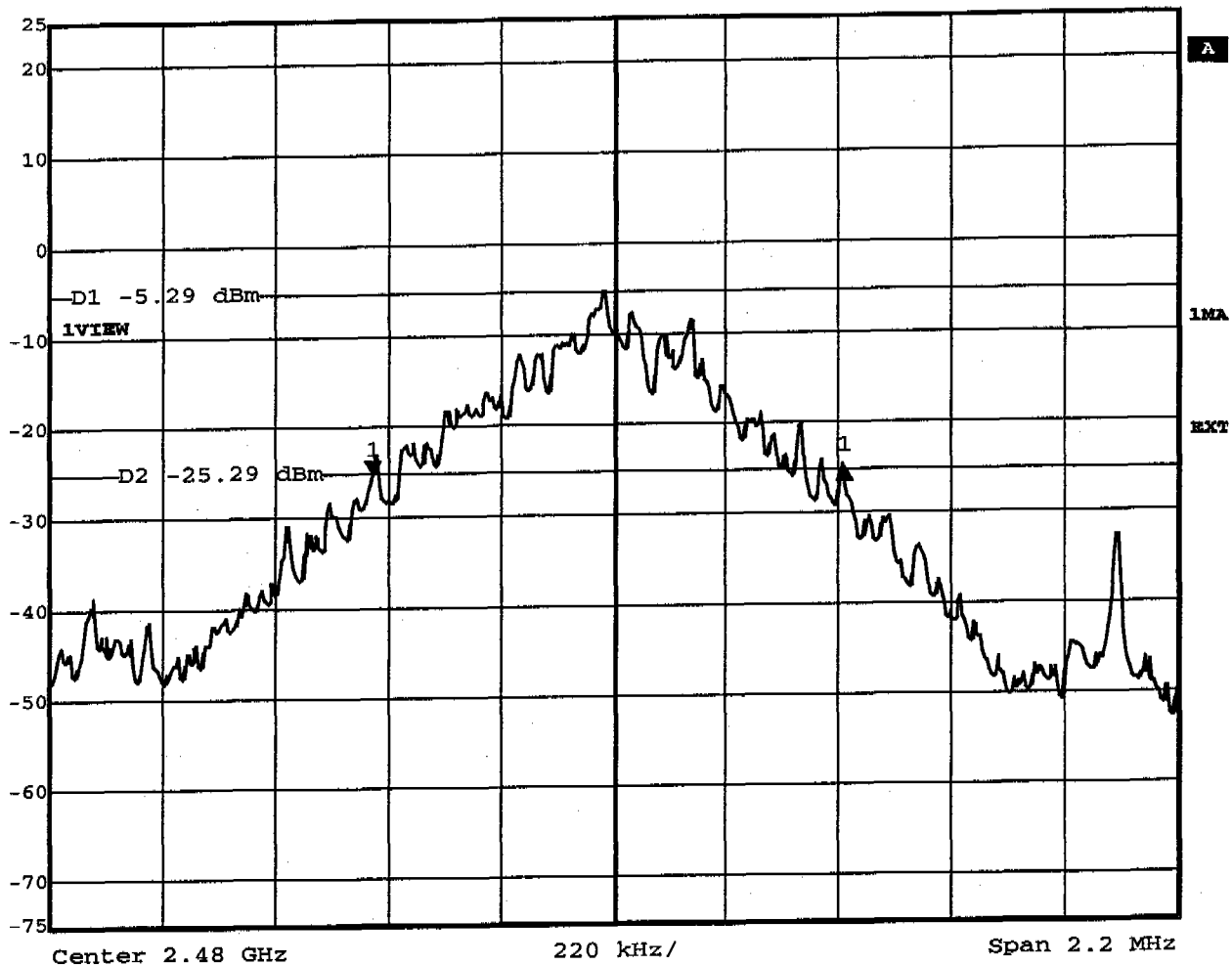
Delta 1 [T1] RBW 10 kHz RF Att 50 dB
Ref Lvl 0.03 dB VBW 10 kHz
25 dBm 903.80761523 kHz SWT 56 ms Unit dBm



Title: -20dB Bandwidth Ch.: 39
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 12.AUG.2003 14:04:18



Delta 1 [T1] RBW 10 kHz RF Att 50 dB
Ref Lvl 0.09 dB VBW 10 kHz
25 dBm 921.44288577 kHz SWT 56 ms Unit dBm



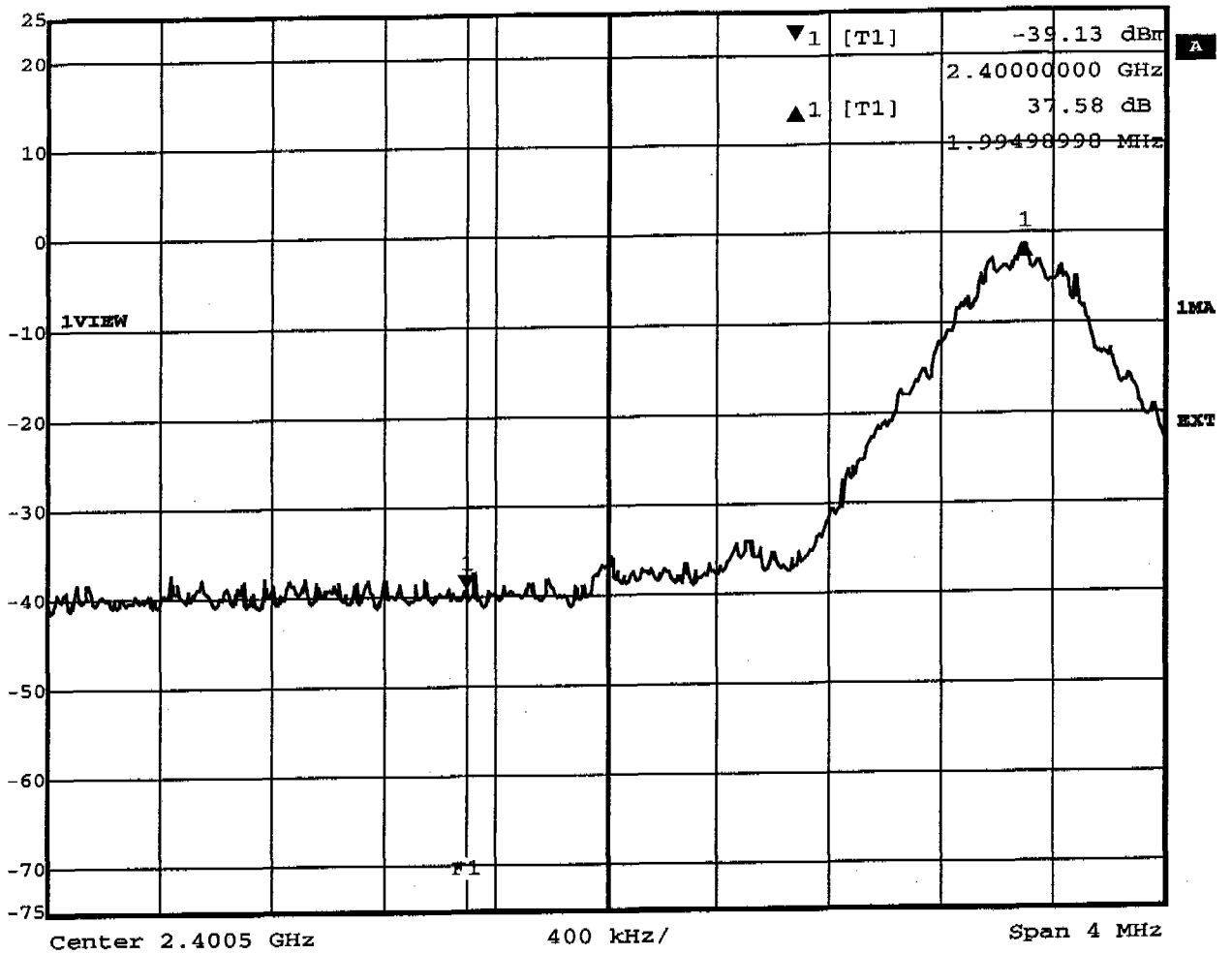
Title: -20dB Bandwidth Ch.: 78
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 12.AUG.2003 14:06:10

Appendix I

Band-edge Compliance of RF Emissions



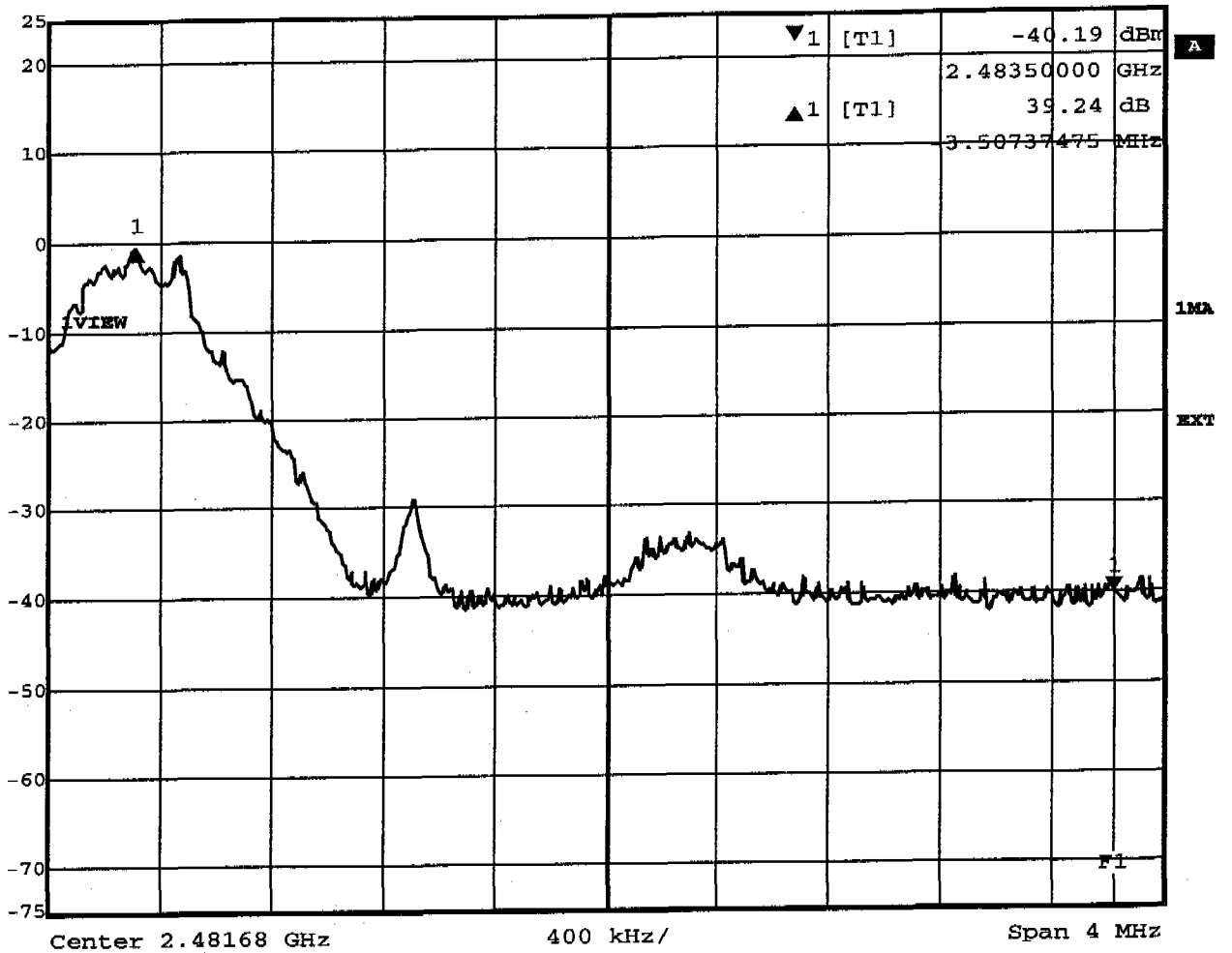
Delta 1 [T1] RBW 50 kHz RF Att 50 dB
Ref Lvl 37.58 dB VBW 50 kHz
25 dBm 1.99498998 MHz SWT 5 ms Unit dBm



Title: Band-edge Compliance (conducted, single frequency)
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 12.AUG.2003 13:53:57



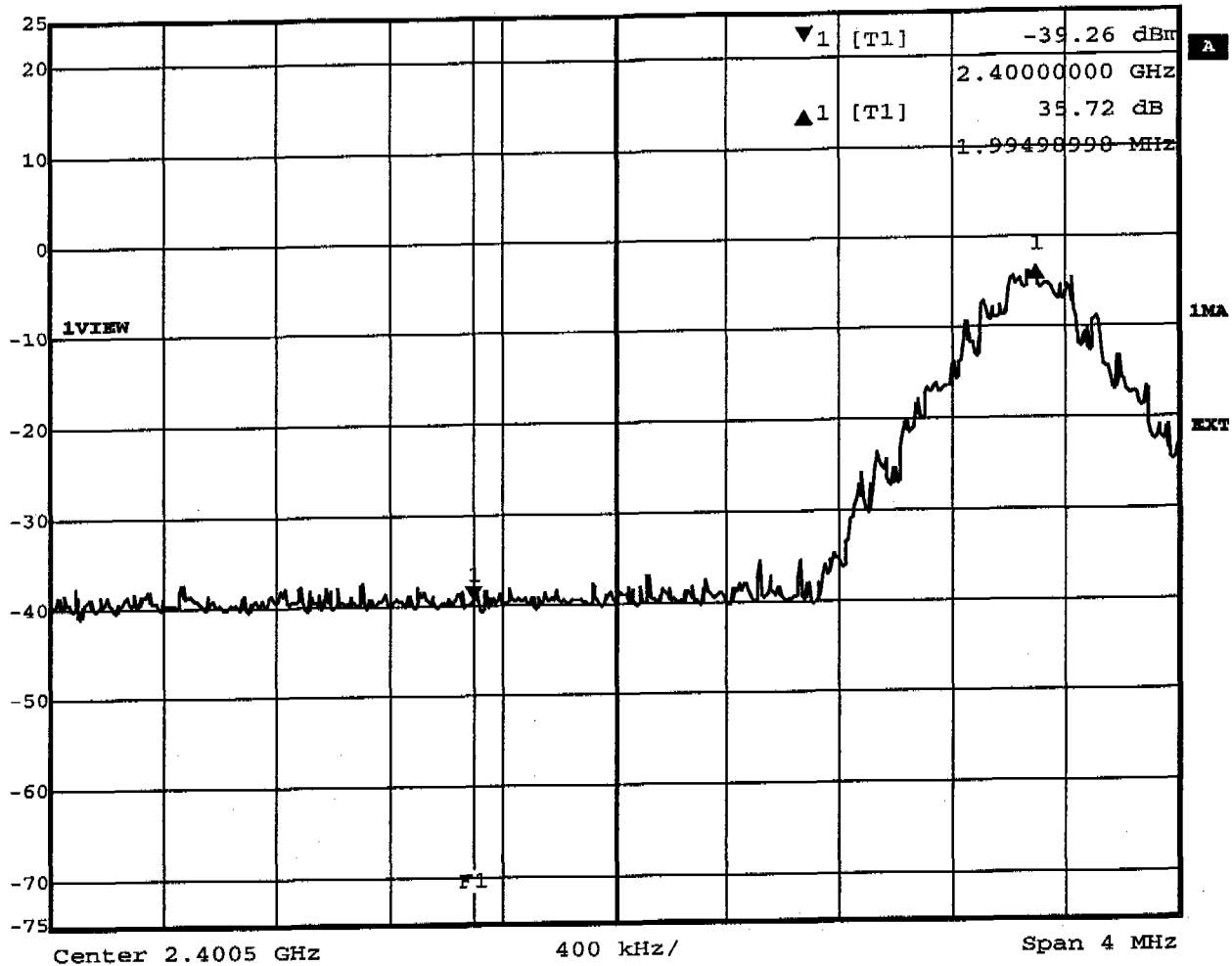
Delta 1 [T1] RBW 50 kHz RF Att 50 dB
Ref Lvl 39.24 dB VBW 50 kHz
25 dBm -3.50737475 MHz SWT 5 ms Unit dBm



Title: Band-edge Compliance (conducted, single frequency)
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 12.AUG.2003 13:52:19



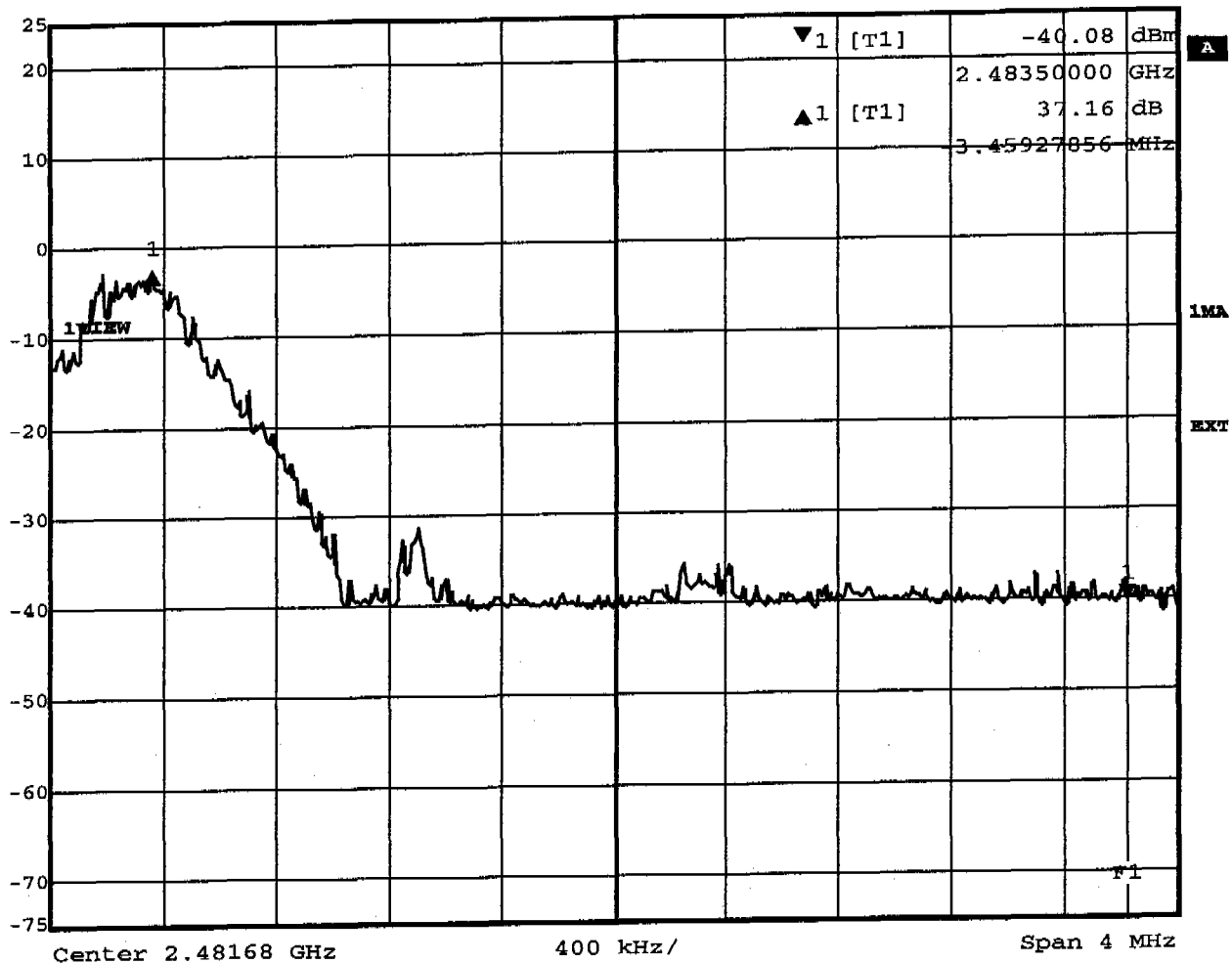
Delta 1 [T1] RBW 50 kHz RF Att 50 dB
Ref Lvl 35.72 dB VBW 50 kHz
25 dBm 1.99498998 MHz SWT 5 ms Unit dBm



Title: Band-edge Compliance (conducted, hopping mode)
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 12.AUG.2003 14:28:24



Delta 1 [T1] RBW 50 kHz RF Att 50 dB
Ref Lvl 37.16 dB VBW 50 kHz
25 dBm -3.45927856 MHz SWT 5 ms Unit dBm



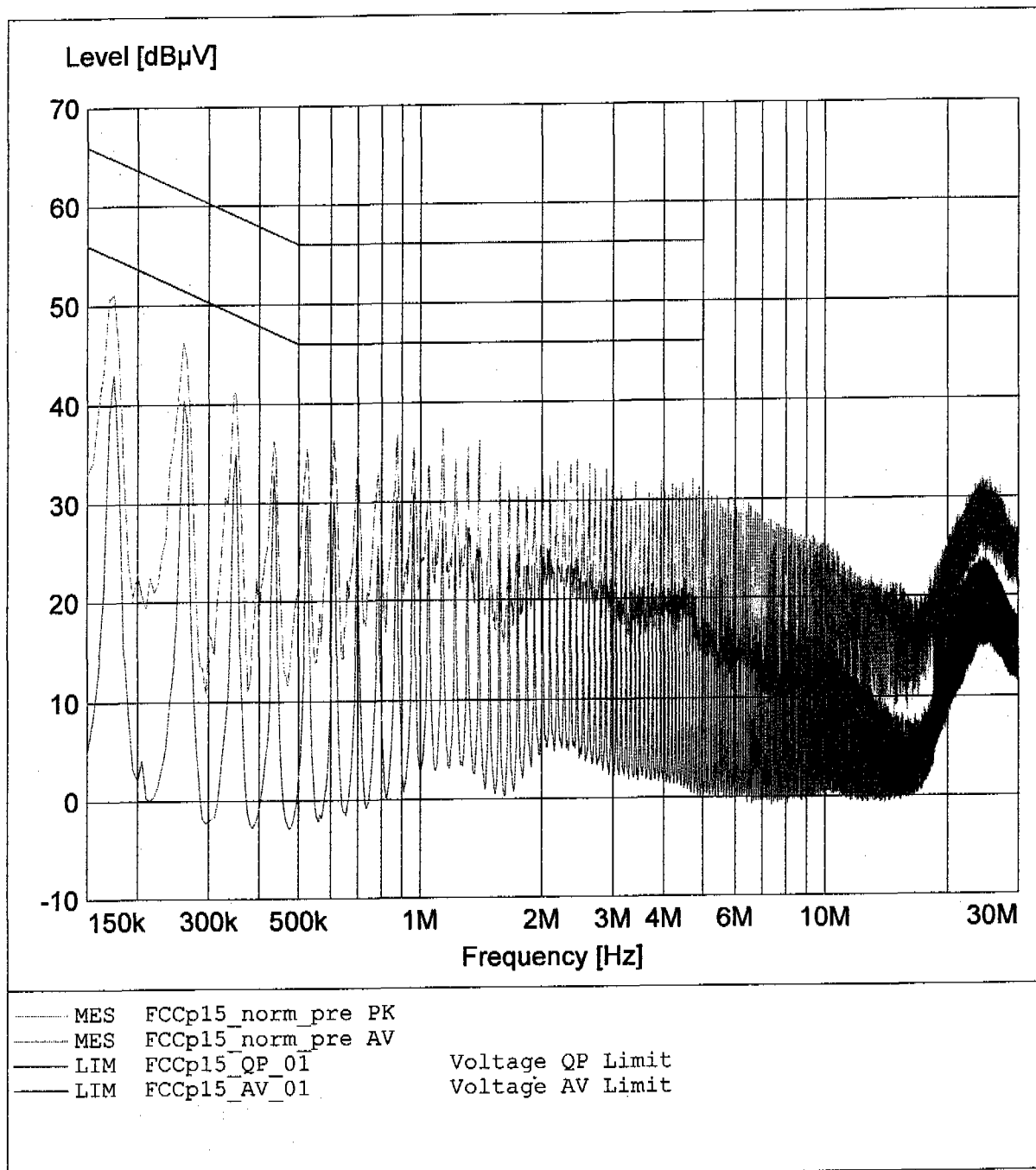
Title: Band-edge Compliance (conducted, hopping mode)
Comment A: Nonin Medical Inc. Pulse oximeter display 4000
Date: 12.AUG.2003 14:31:29

Appendix J

Conducted Measurement at (AC) Power Line

EMI voltage test in the ac-mains according to FCC part 15

EUT: PULSE OXIMETER DISPLAY
Manufacturer: NONIN MEDICAL, INC.
Operating Condition: Unom: 120VAC(AC/DC-adaptor), Tnom: 23°C
Test Site: ETS
Operator: Mr. Pflug
Test Specification: V-Network: ESH2-25 (L1)
Comment: model: 4000 mode_link



EMI voltage test in the ac-mains according to FCC part 15

EUT: PULSE OXIMETER DISPLAY
Manufacturer: NONIN MEDICAL, INC.
Operating Condition: Unom: 120VAC(AC/DC-adaptor), Tnom: 23°C
Test Site: ETS
Operator: Mr. Pflug
Test Specification: V-Network: ESH2-Z5 (N)
Comment: model: 4000 mode_link

