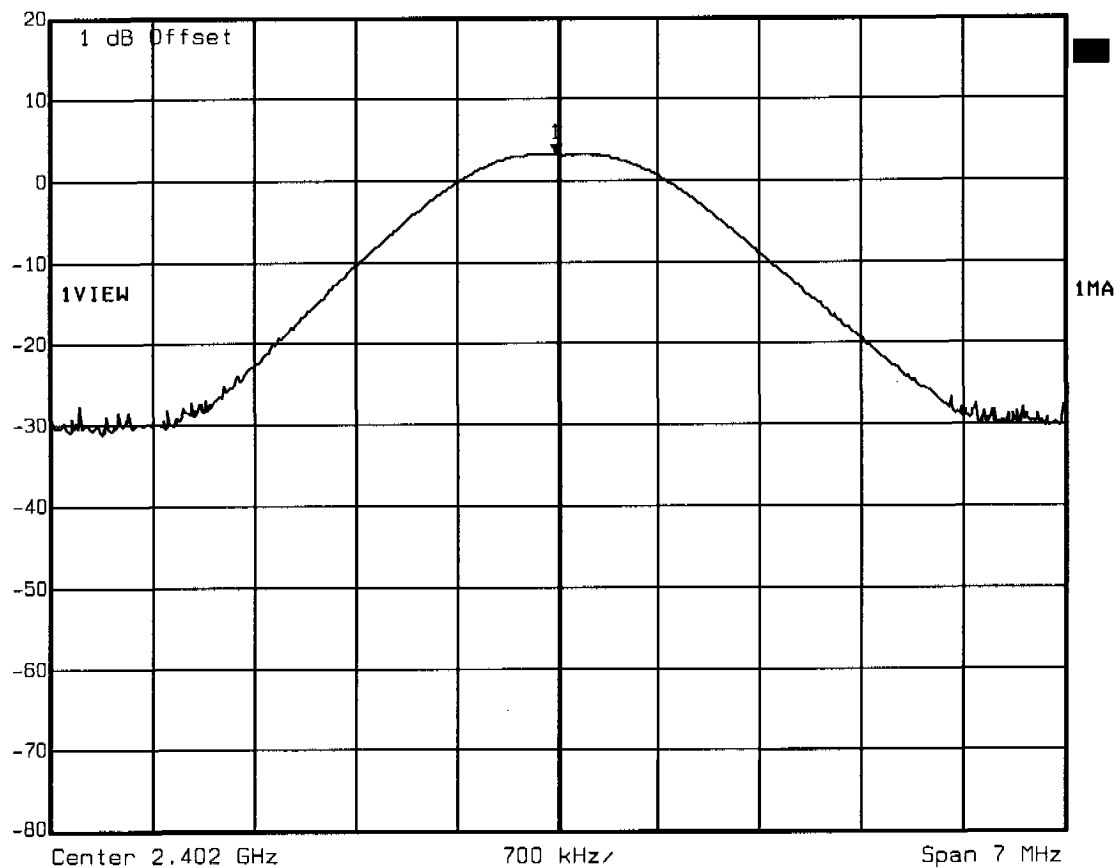


Appendix B

Peak Output Power



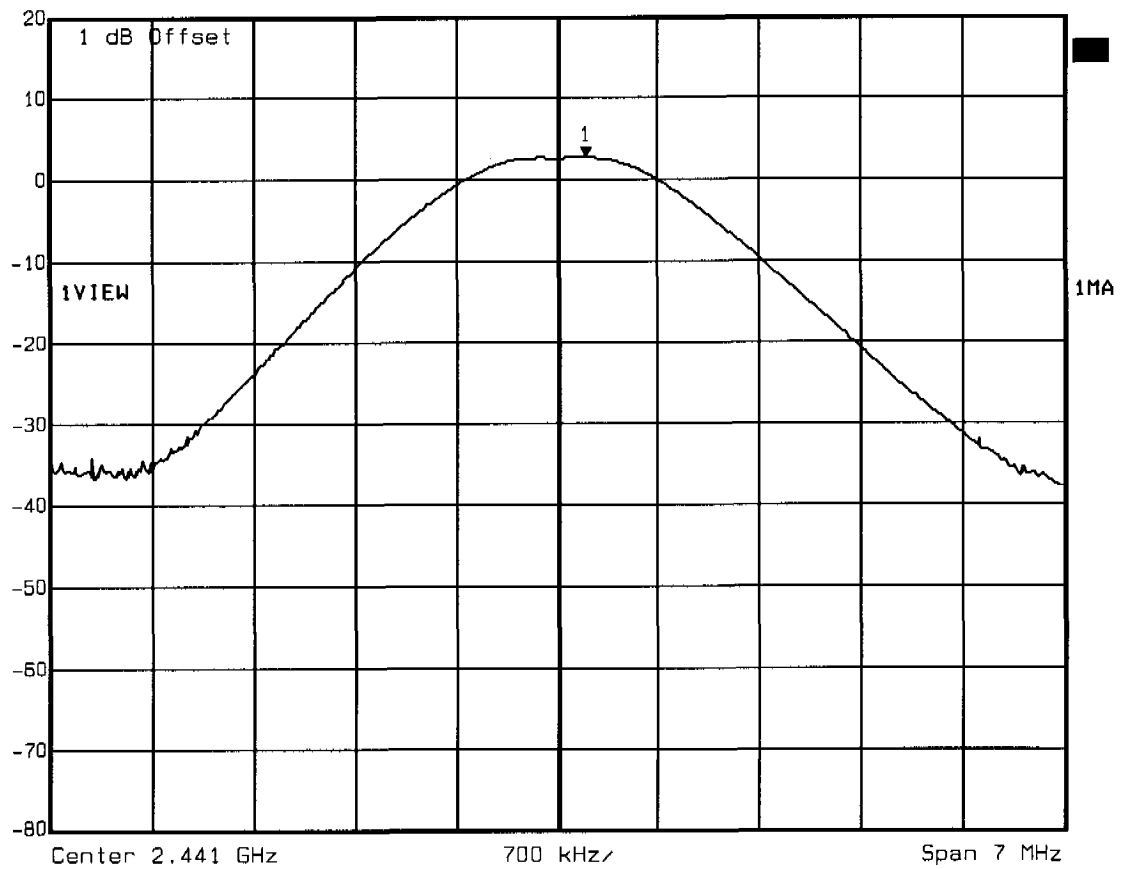
Marker 1 [T1] RBW 1 MHz RF Att 40 dB
Ref Lvl 3.07 dBm VBW 1 MHz
20 dBm 2.40199299 GHz SWT 5 ms Unit dBm



Title: Peak Output Power conducted Ch.: 0
Comment A: Steno Cast X1
Date: 09.NOV.2004 10:13:32



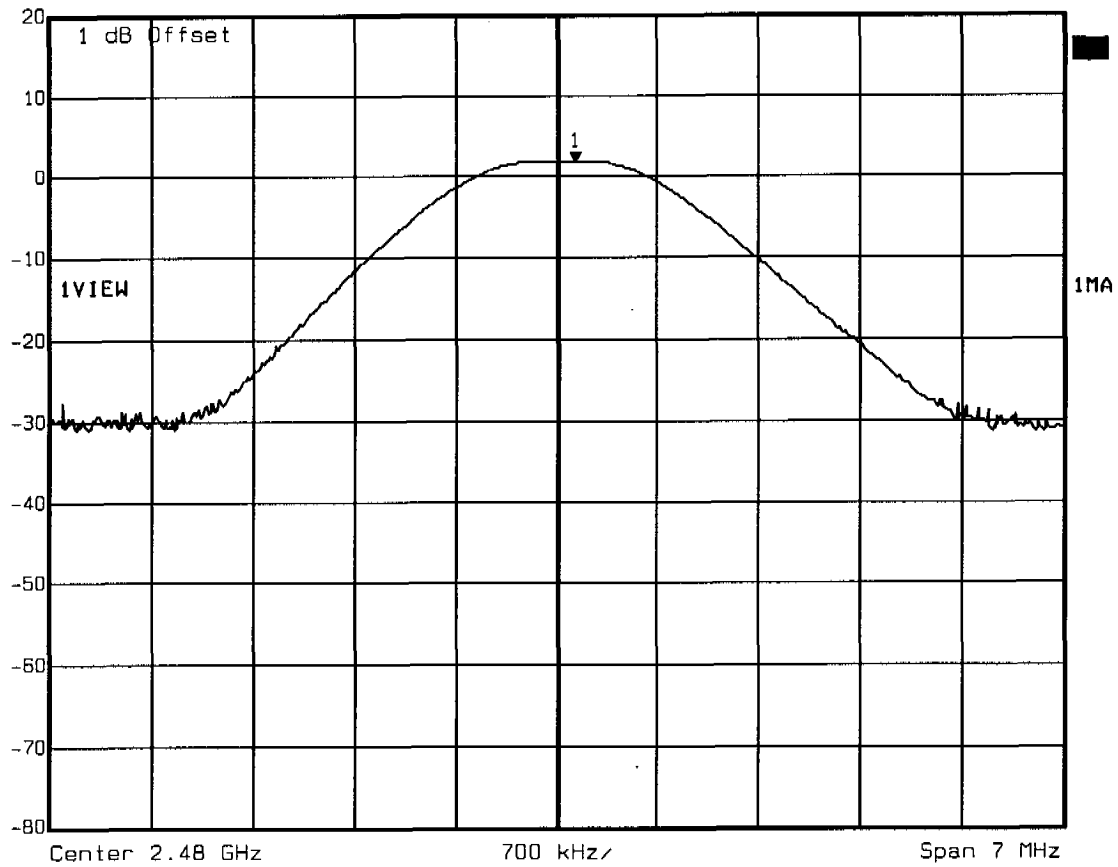
Marker 1 [T1] RBW 1 MHz RF Att 40 dB
Ref Lvl 2.57 dBm VBW 1 MHz
20 dBm 2.44120341 GHz SWT 5 ms Unit dBm



Title: Peak Output Power conducted Ch.: 39
Comment A: Steno Cast X1
Date: 09.NOV.2004 10:12:11



Marker 1 [T1] RBW 1 MHz RF Att 40 dB
Ref Lvl 1.74 dBm VBW 1 MHz
20 dBm 2.48013327 GHz SWT 5 ms Unit dBm

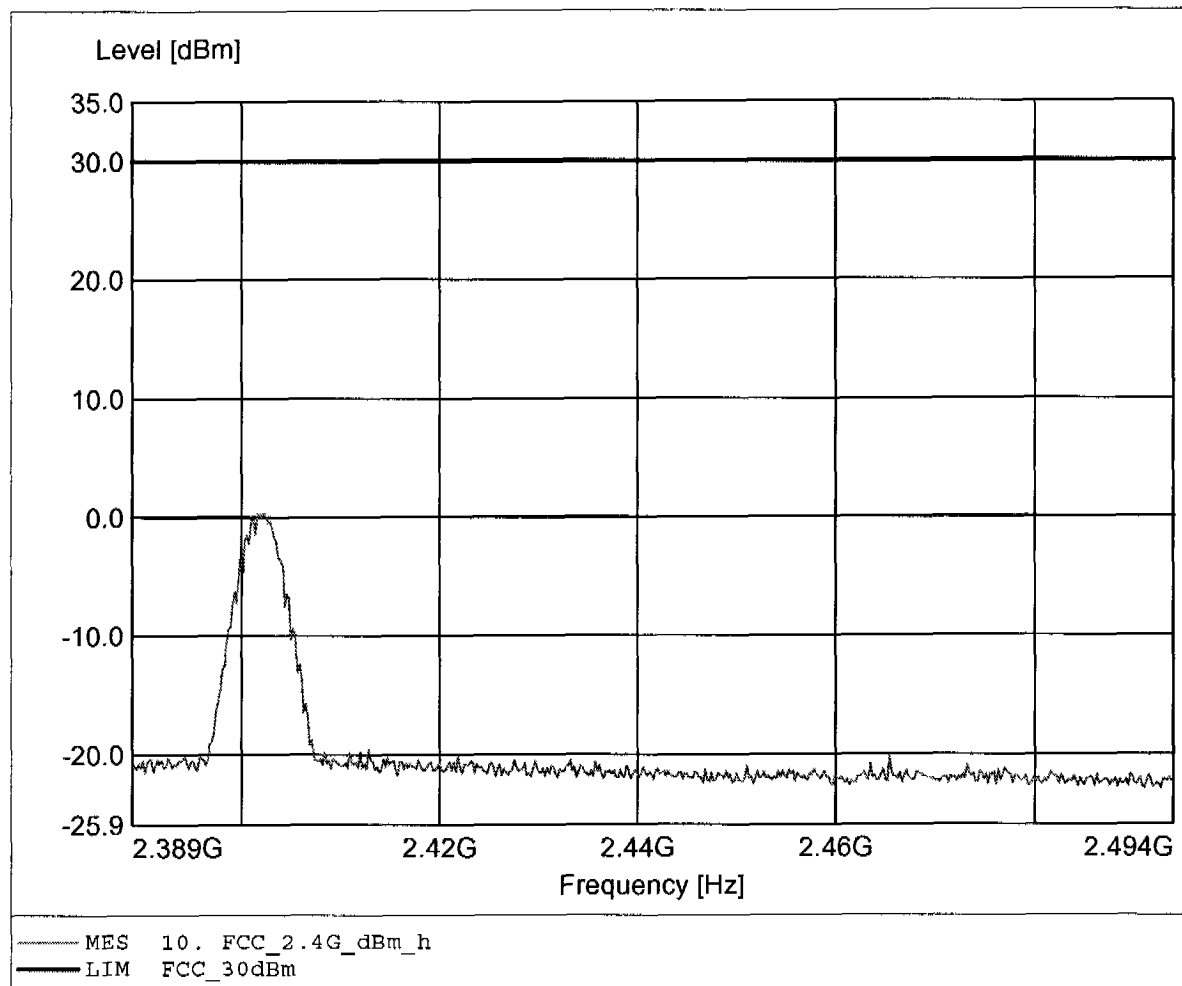


Title: Peak Output Power conducted Ch.: 78
Comment A: Steno Cast X1
Date: 09.NOV.2004 10:14:27

Carrier power (dBm)

FCC RULES PART 15, SUBPART C

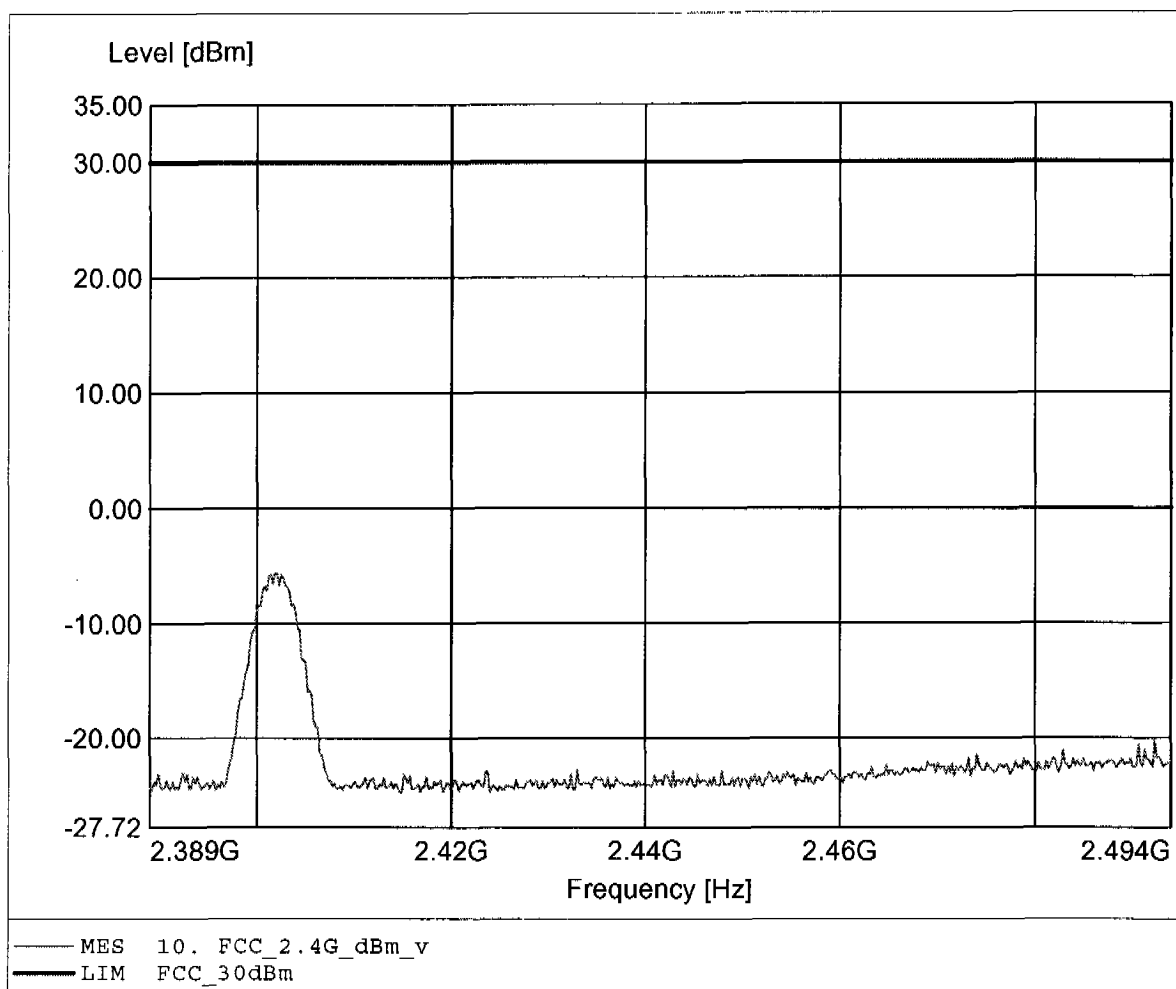
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: 0.30dBm, RBW: 5MHz



Carrier power (dBm)

FCC RULES PART 15, SUBPART C

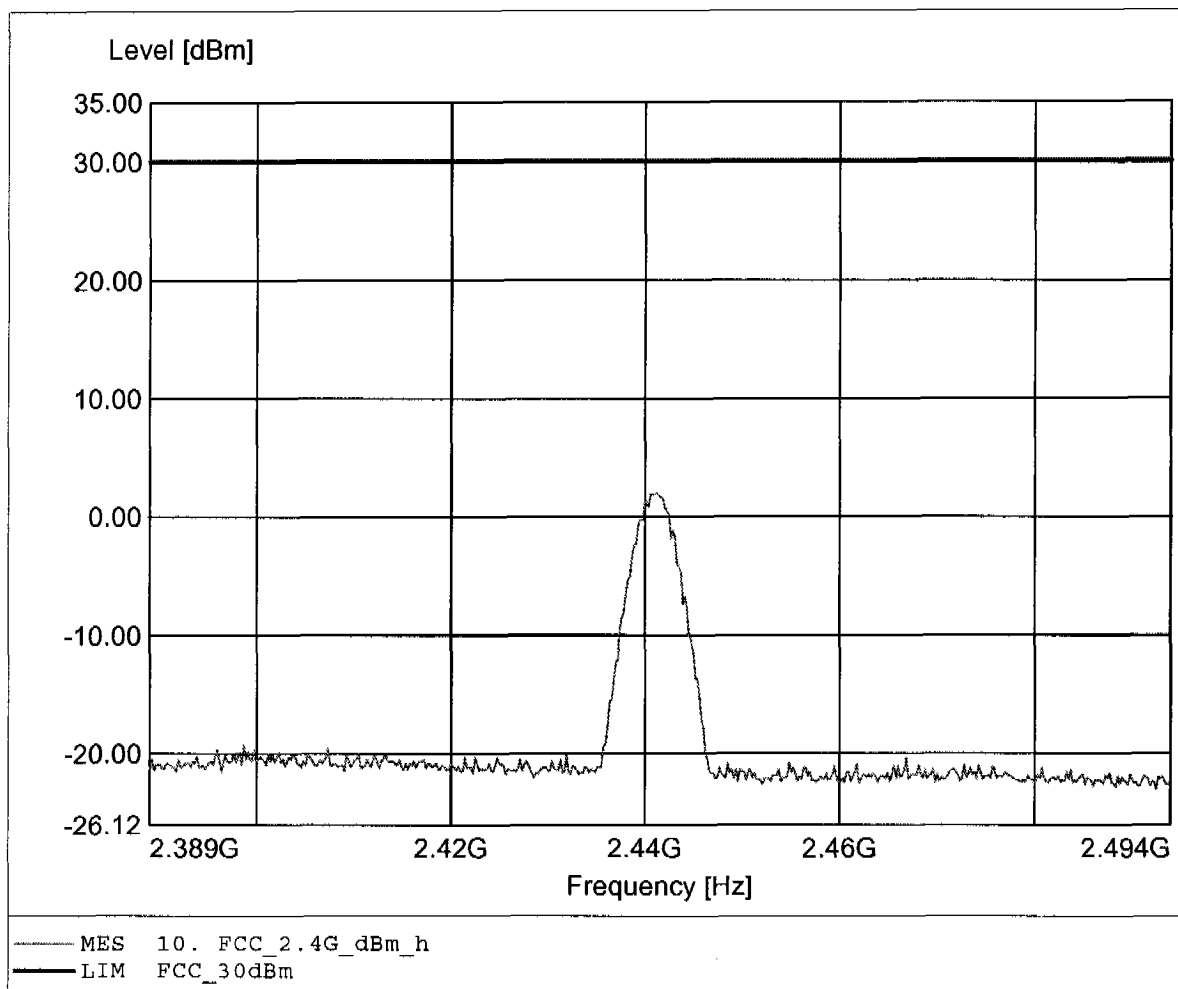
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: -5.58dBm, RBW: 5MHz



Carrier power (dBm)

FCC RULES PART 15, SUBPART C

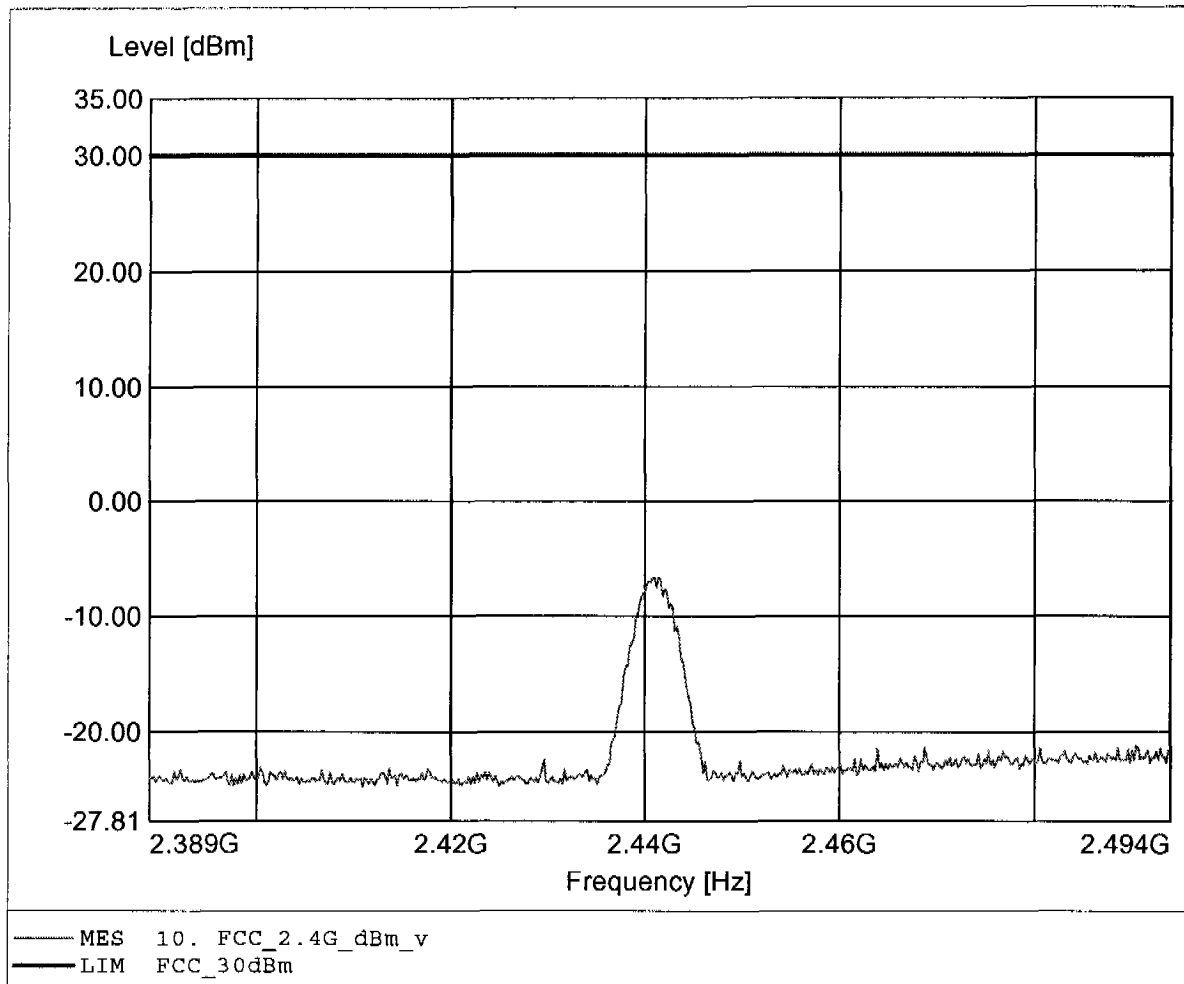
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Pmax: 2.00dBm, RBW: 5MHz



Carrier power (dBm)

FCC RULES PART 15, SUBPART C

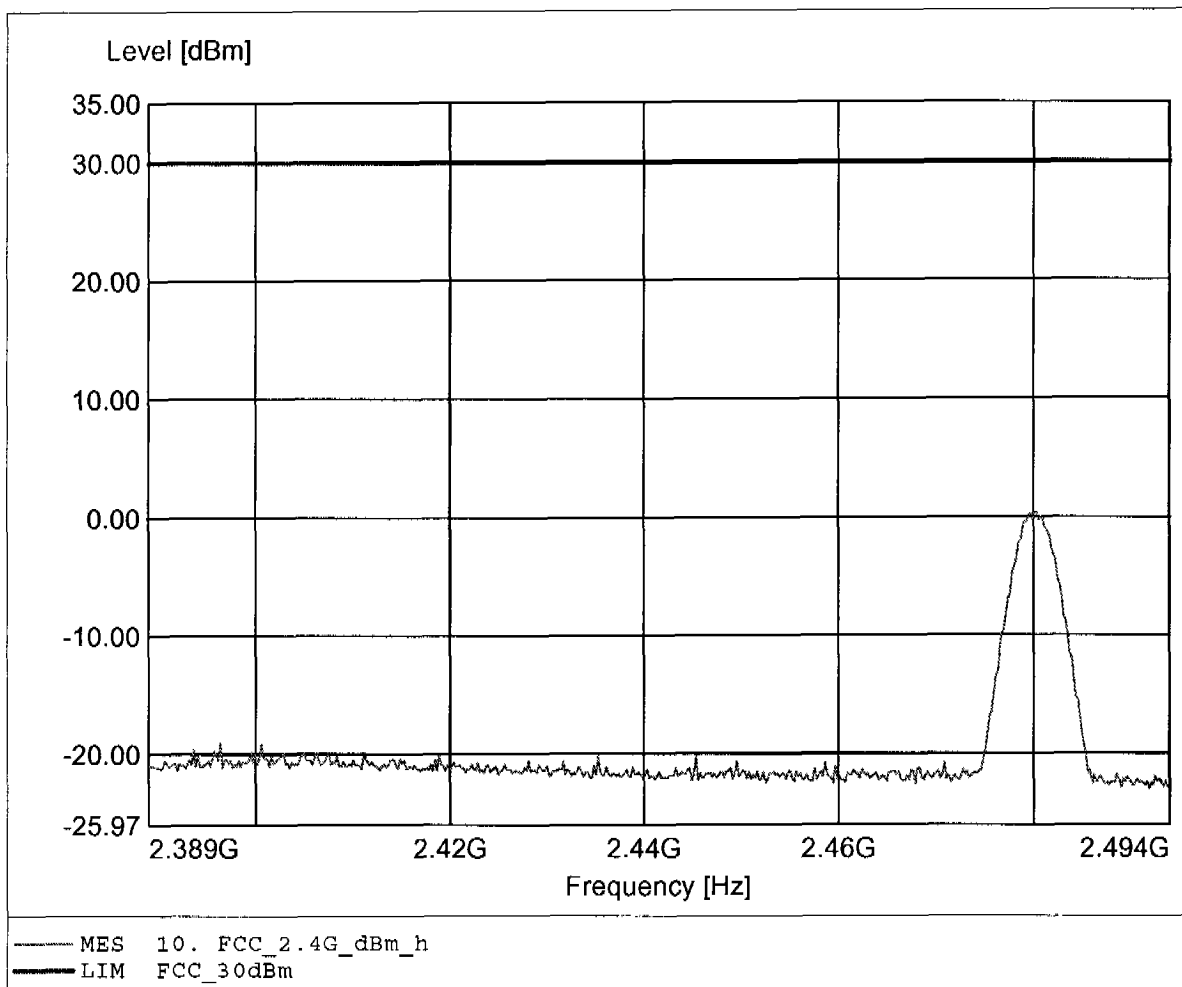
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Pmax: -6.62dBm, RBW: 5MHz



Carrier power (dBm)

FCC RULES PART 15, SUBPART C

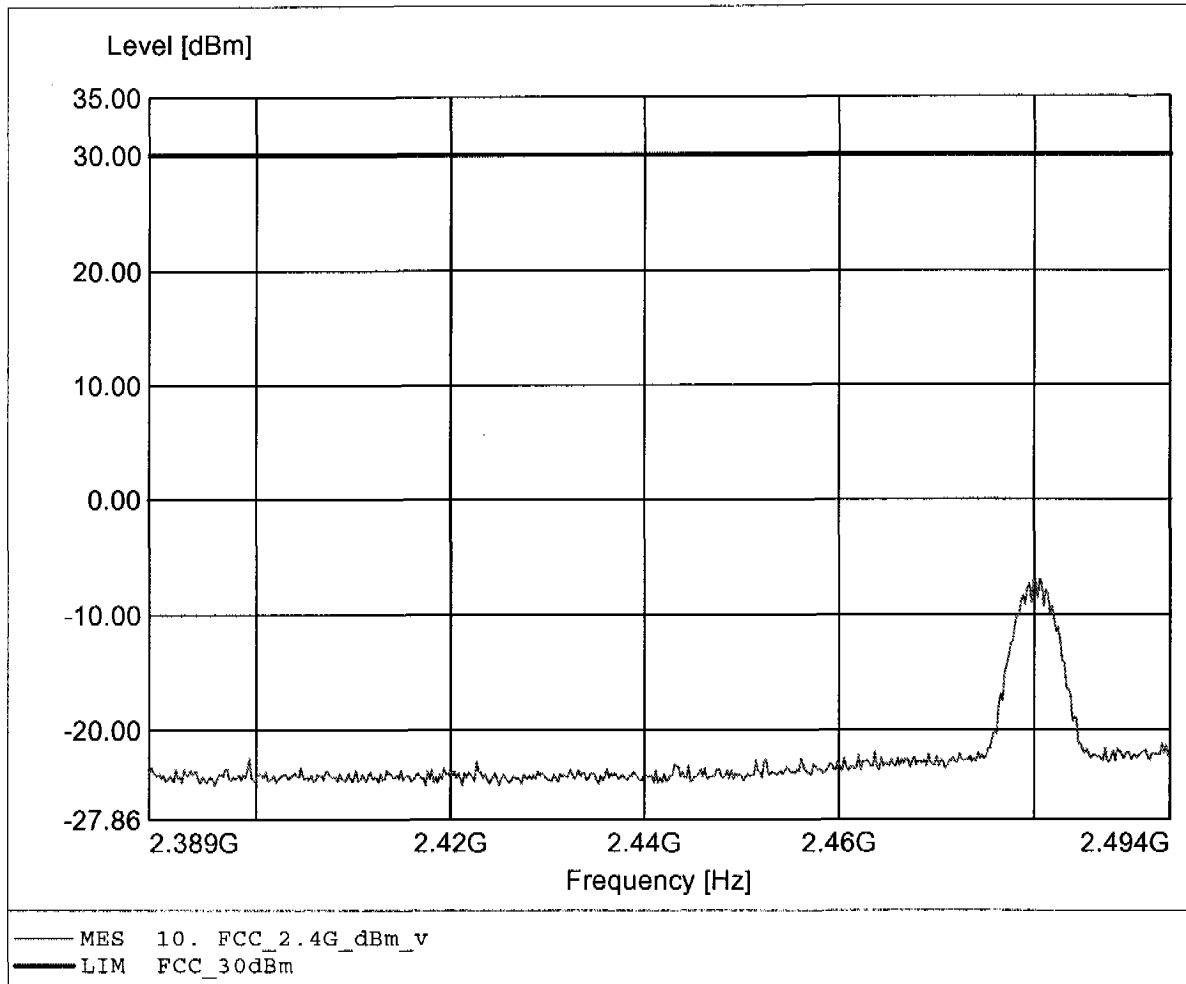
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Pmax: 0.37dBm, RBW: 5MHz



Carrier power (dBm)

FCC RULES PART 15, SUBPART C

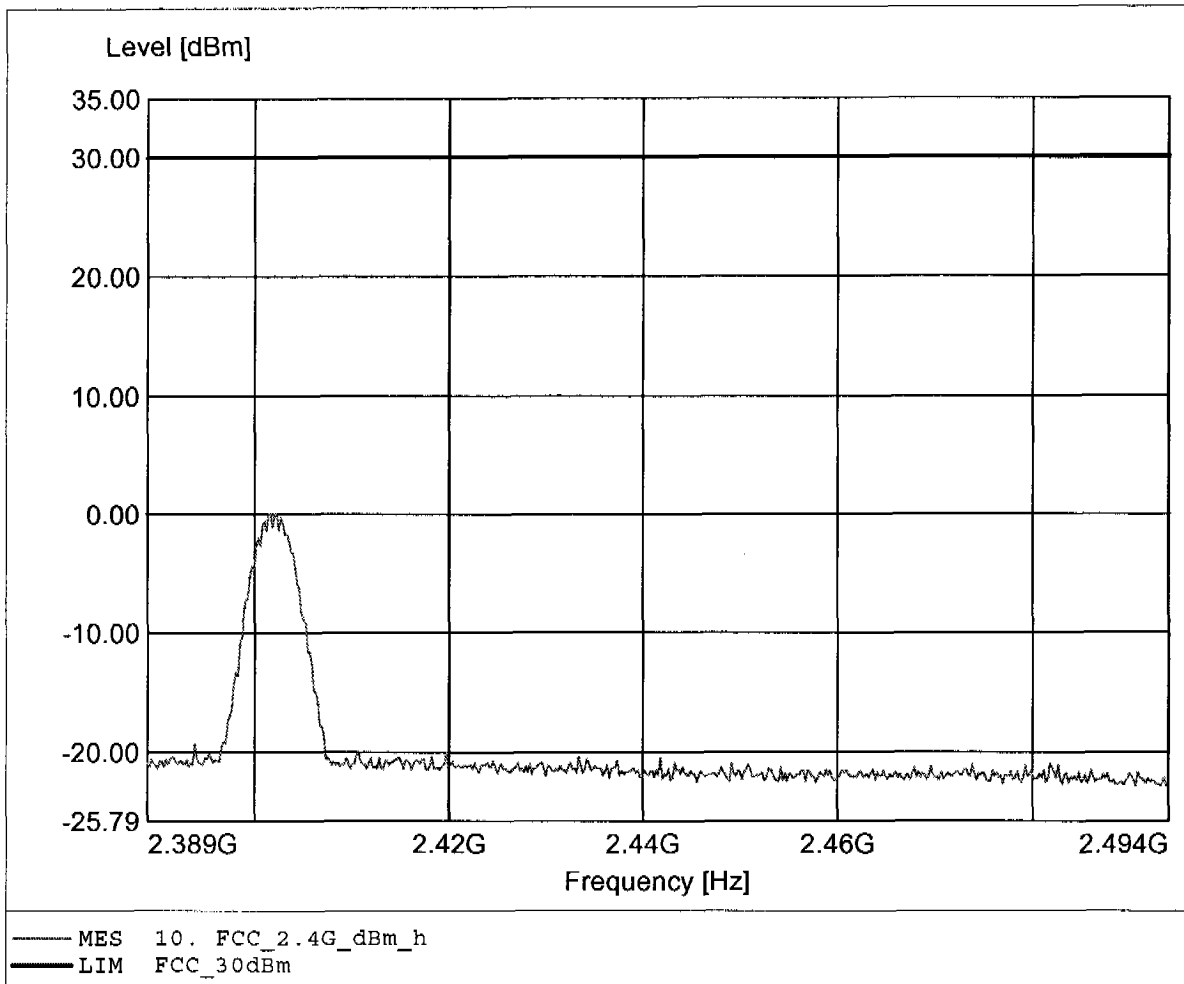
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.481GHz, Pmax: -6.98dBm, RBW: 5MHz



Carrier power (dBm)

FCC RULES PART 15, SUBPART C

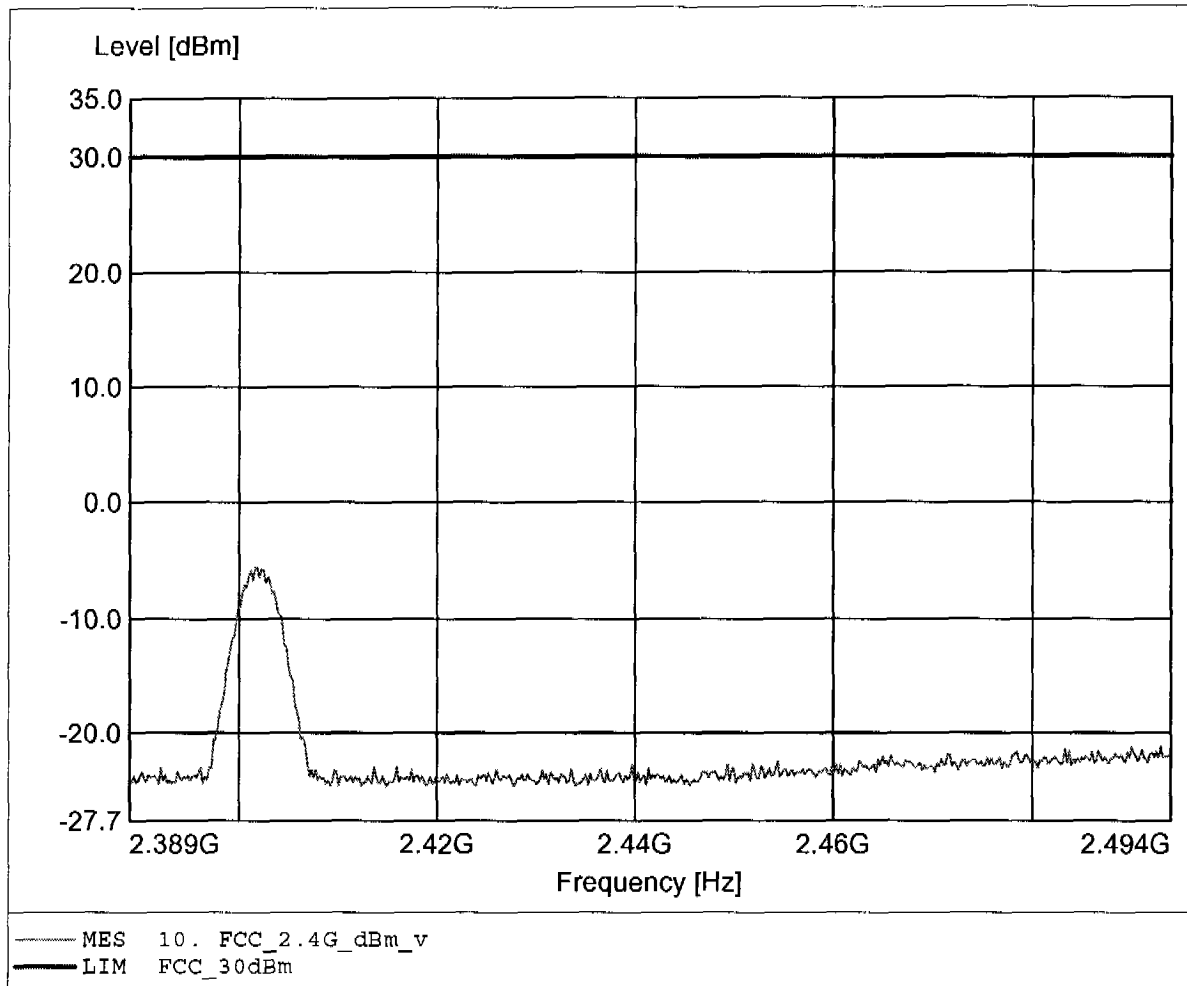
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC -15%)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: 0.05dBm, RBW: 5MHz



Carrier power (dBm)

FCC RULES PART 15, SUBPART C

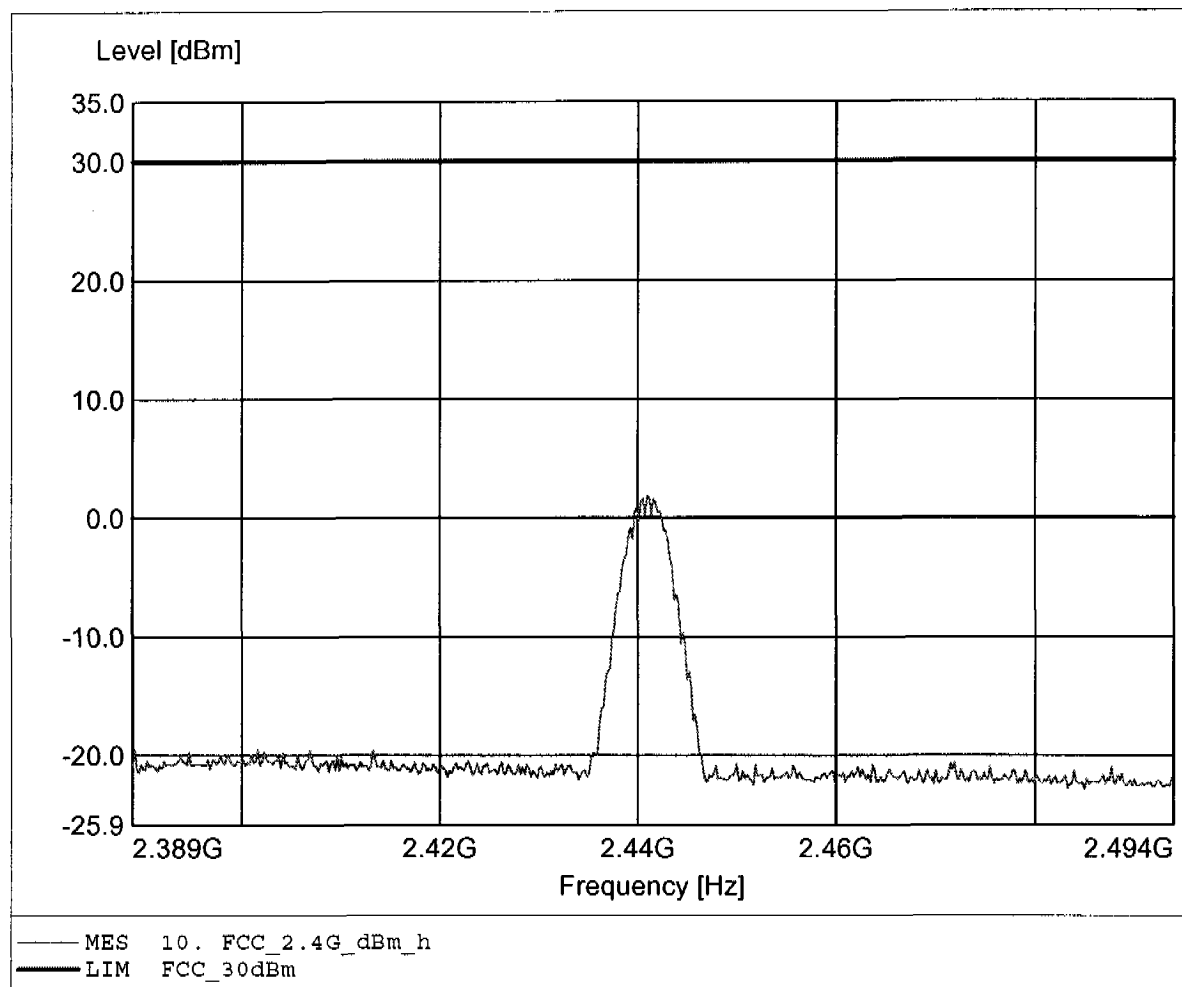
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC -15%)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: -5.55dBm, RBW: 5MHz



Carrier power (dBm)

FCC RULES PART 15, SUBPART C

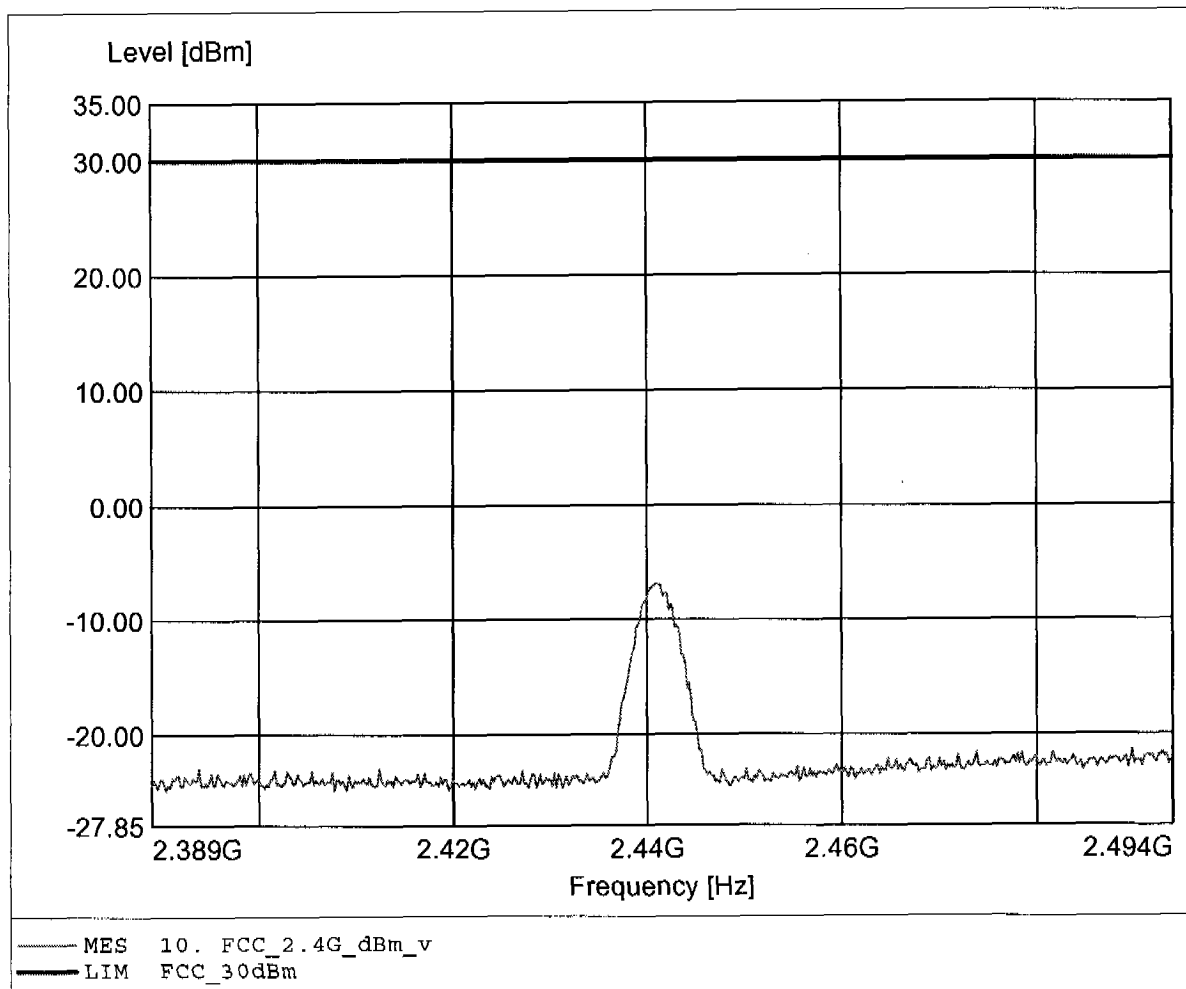
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC -15%)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Pmax: 1.78dBm, RBW: 5MHz



Carrier power (dBm)

FCC RULES PART 15, SUBPART C

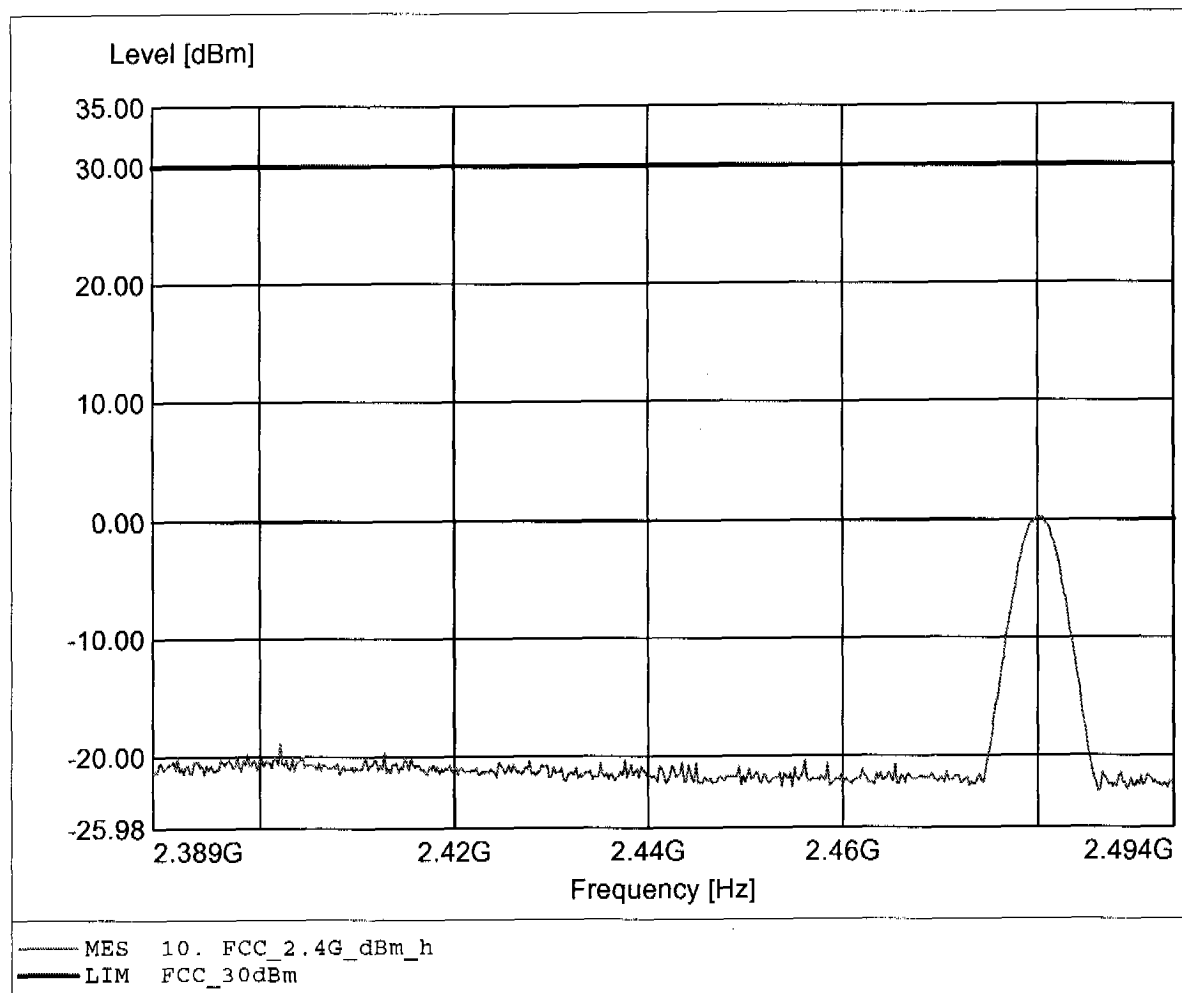
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC -15%)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Pmax: -6.85dBm, RBW: 5MHz



Carrier power (dBm)

FCC RULES PART 15, SUBPART C

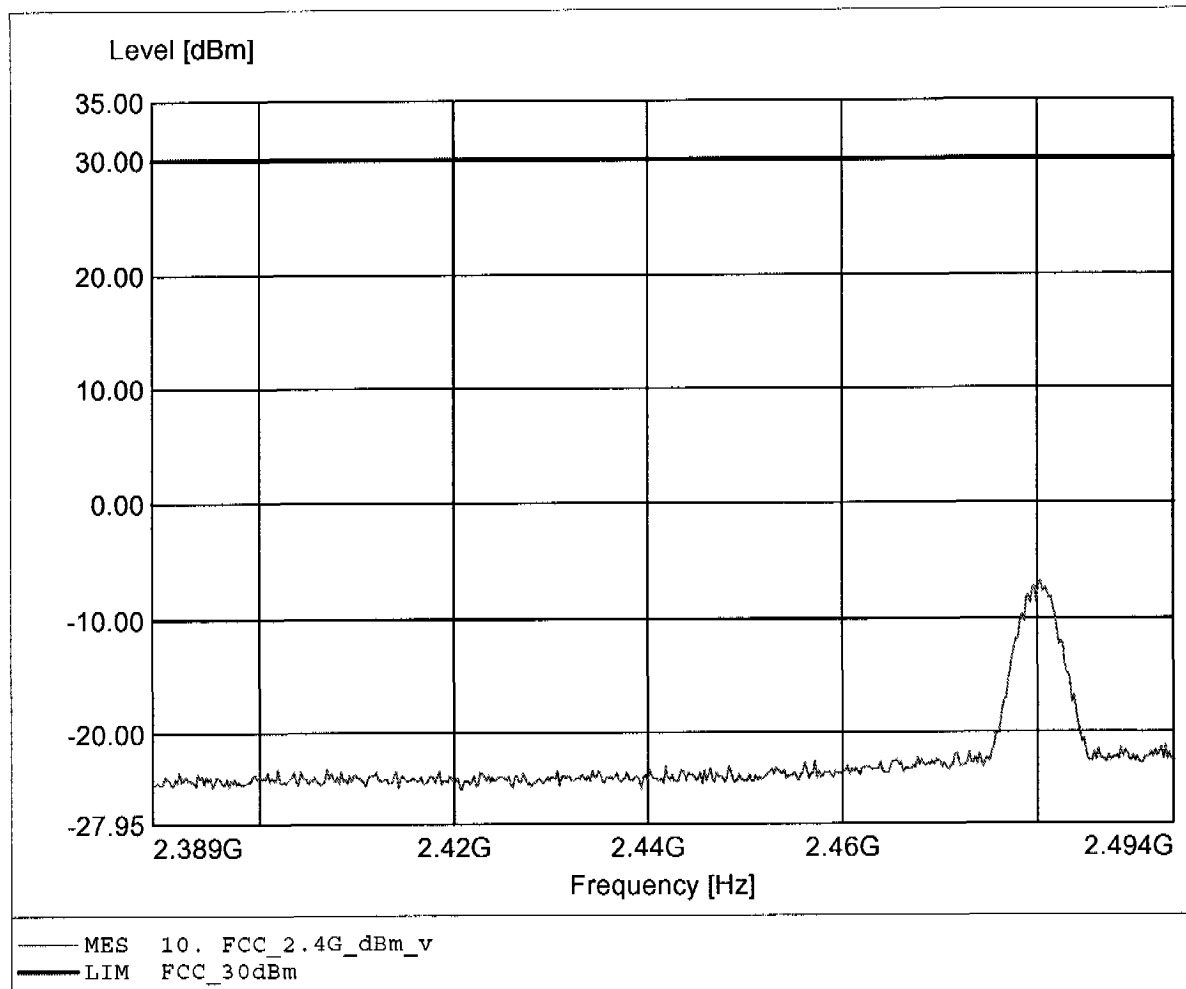
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC -15%)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Pmax: 0.23dBm, RBW: 5MHz



Carrier power (dBm)

FCC RULES PART 15, SUBPART C

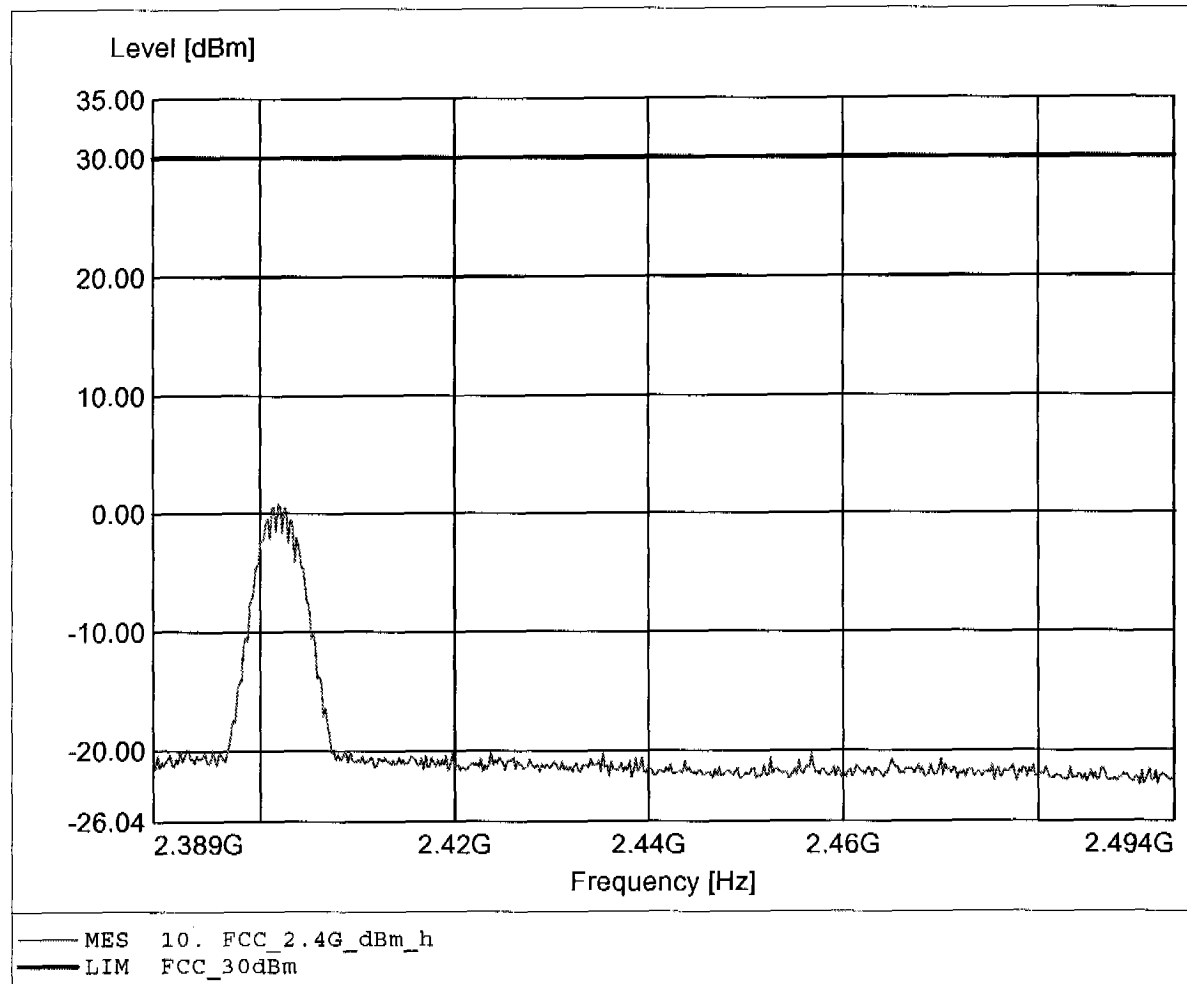
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC -15%)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Pmax: -6.82dBm, RBW: 5MHz



Carrier power (dBm)

FCC RULES PART 15, SUBPART C

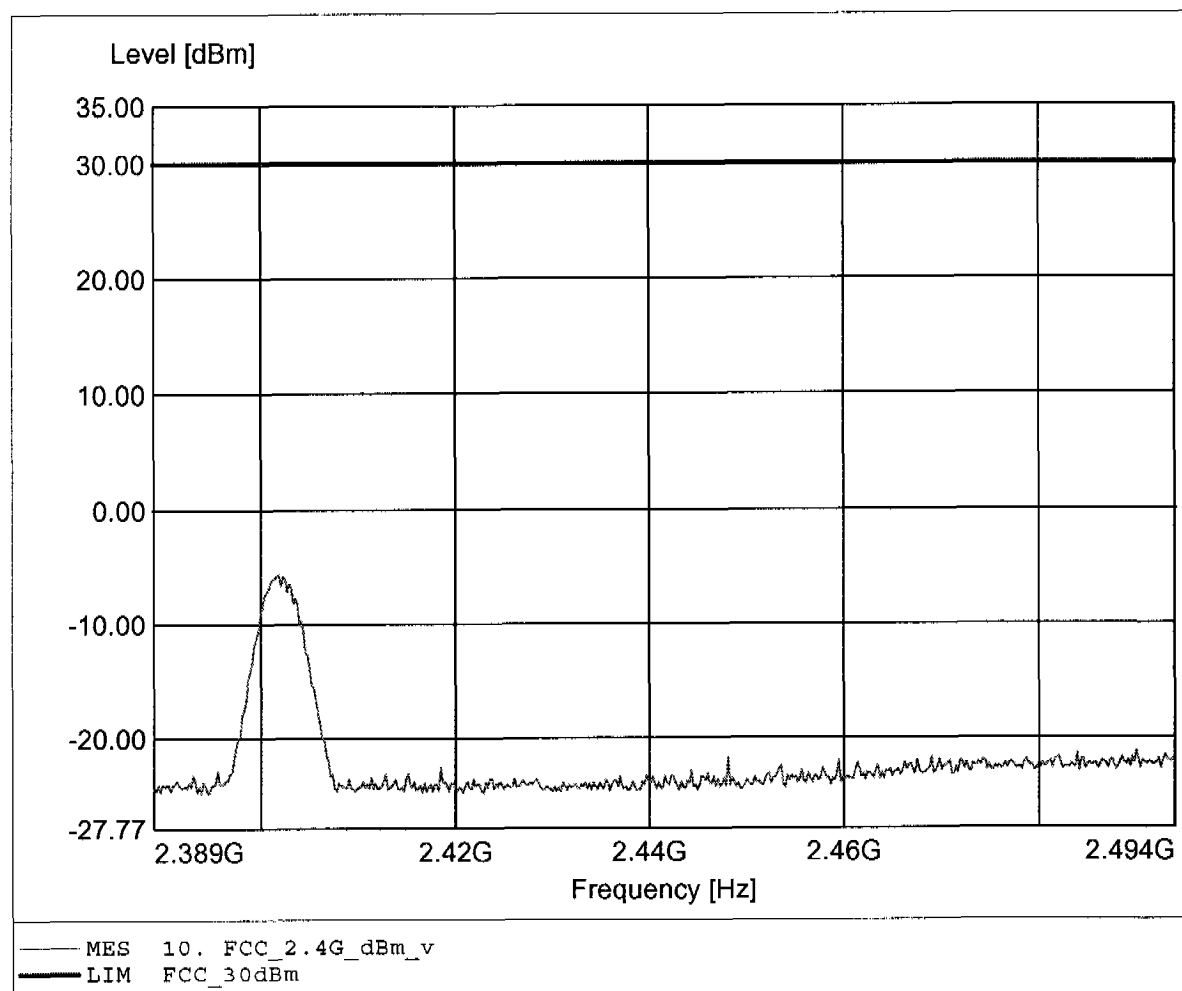
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC +15%)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: 0.81dBm, RBW: 5MHz



Carrier power (dBm)

FCC RULES PART 15, SUBPART C

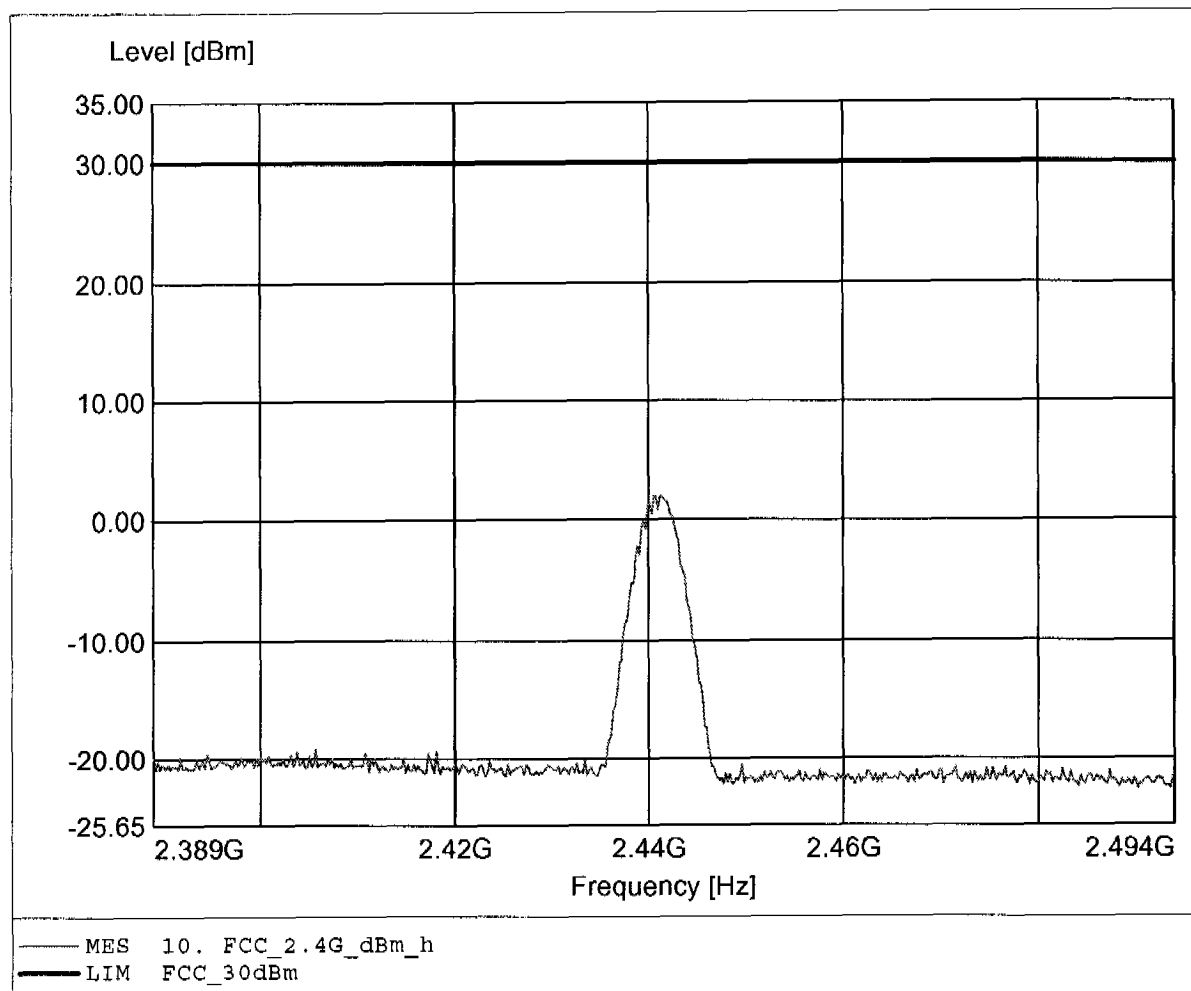
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC +15%)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: -5.60dBm, RBW: 5MHz



Carrier power (dBm)

FCC RULES PART 15, SUBPART C

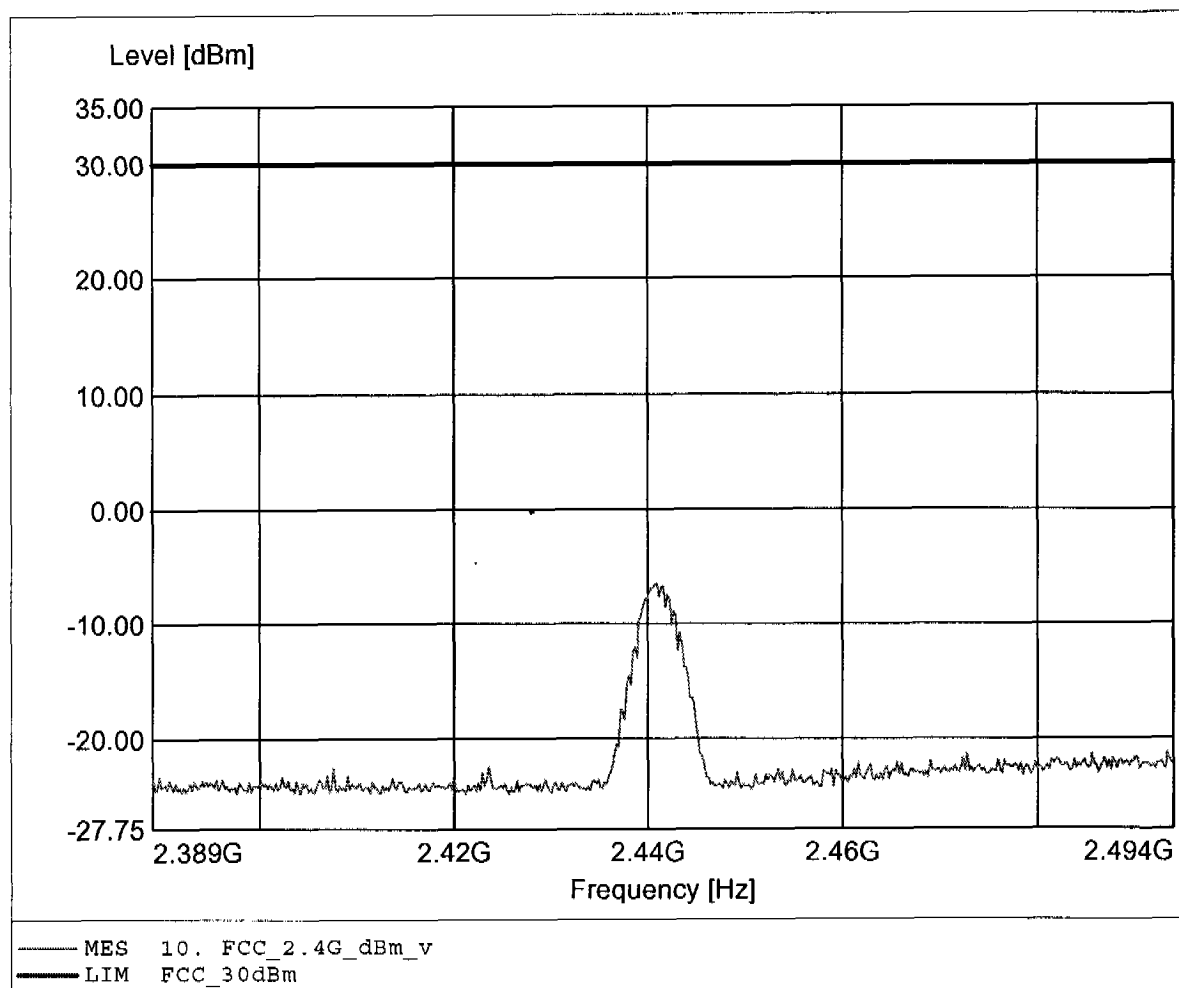
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC +15%)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Pmax: 1.97dBm, RBW: 5MHz



Carrier power (dBm)

FCC RULES PART 15, SUBPART C

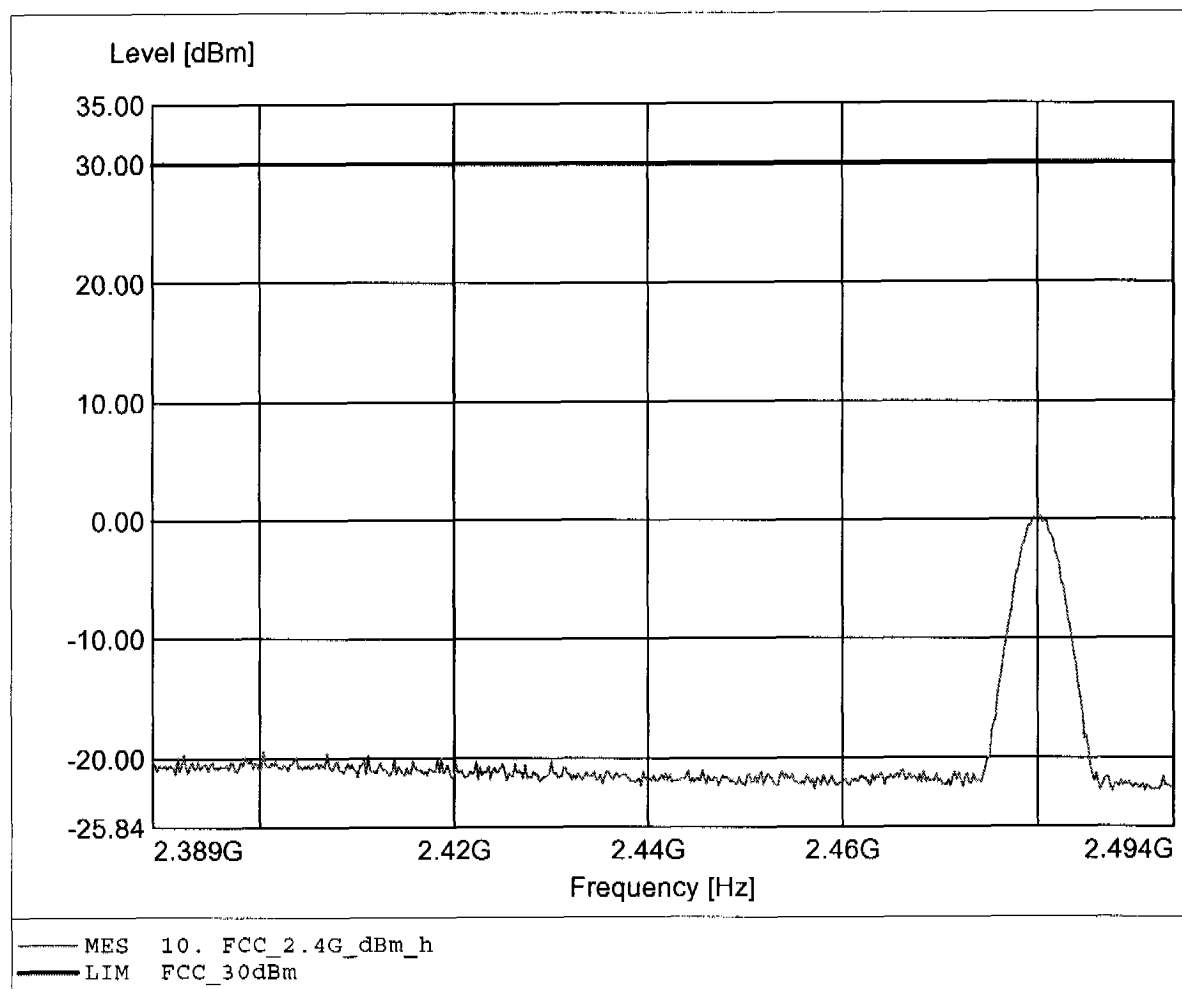
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC +15%)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Pmax: -6.49dBm, RBW: 5MHz



Carrier power (dBm)

FCC RULES PART 15, SUBPART C

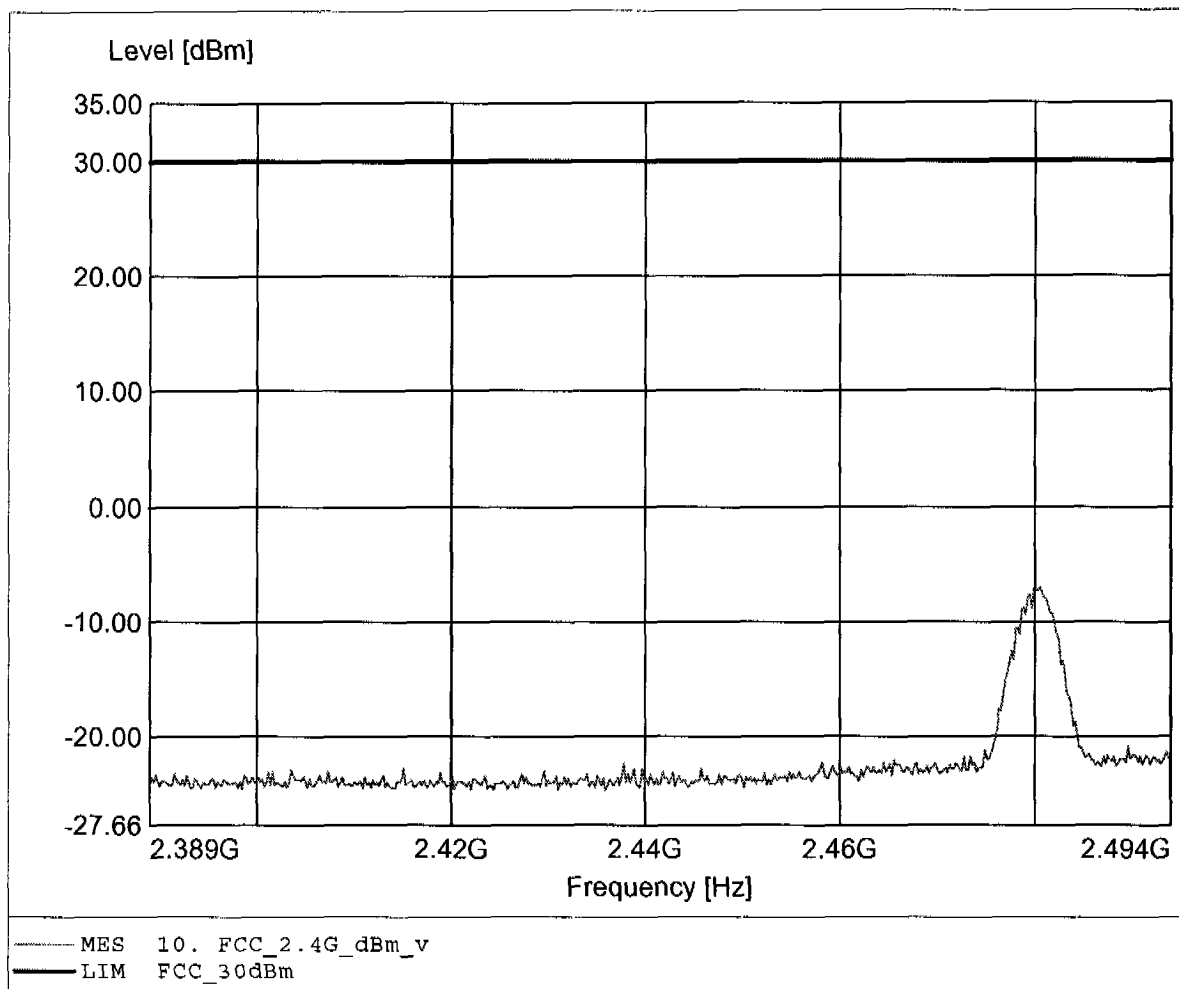
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC +15%)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Pmax: 0.20dBm, RBW: 5MHz



Carrier power (dBm)

FCC RULES PART 15, SUBPART C

Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC +15%)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.481GHz, Pmax: -6.89dBm, RBW: 5MHz



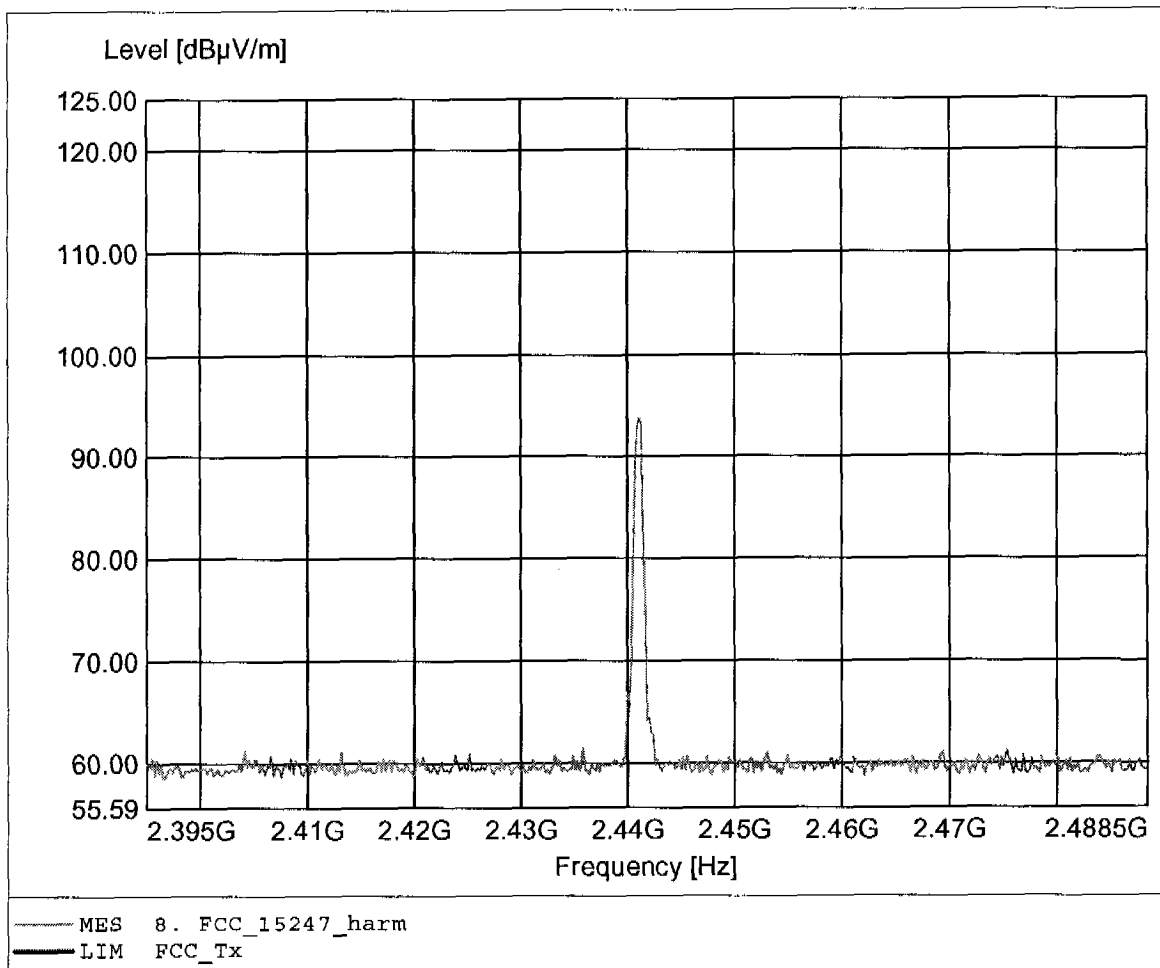
Appendix C

Spurious Emissions radiated - Transmitter operating

Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C

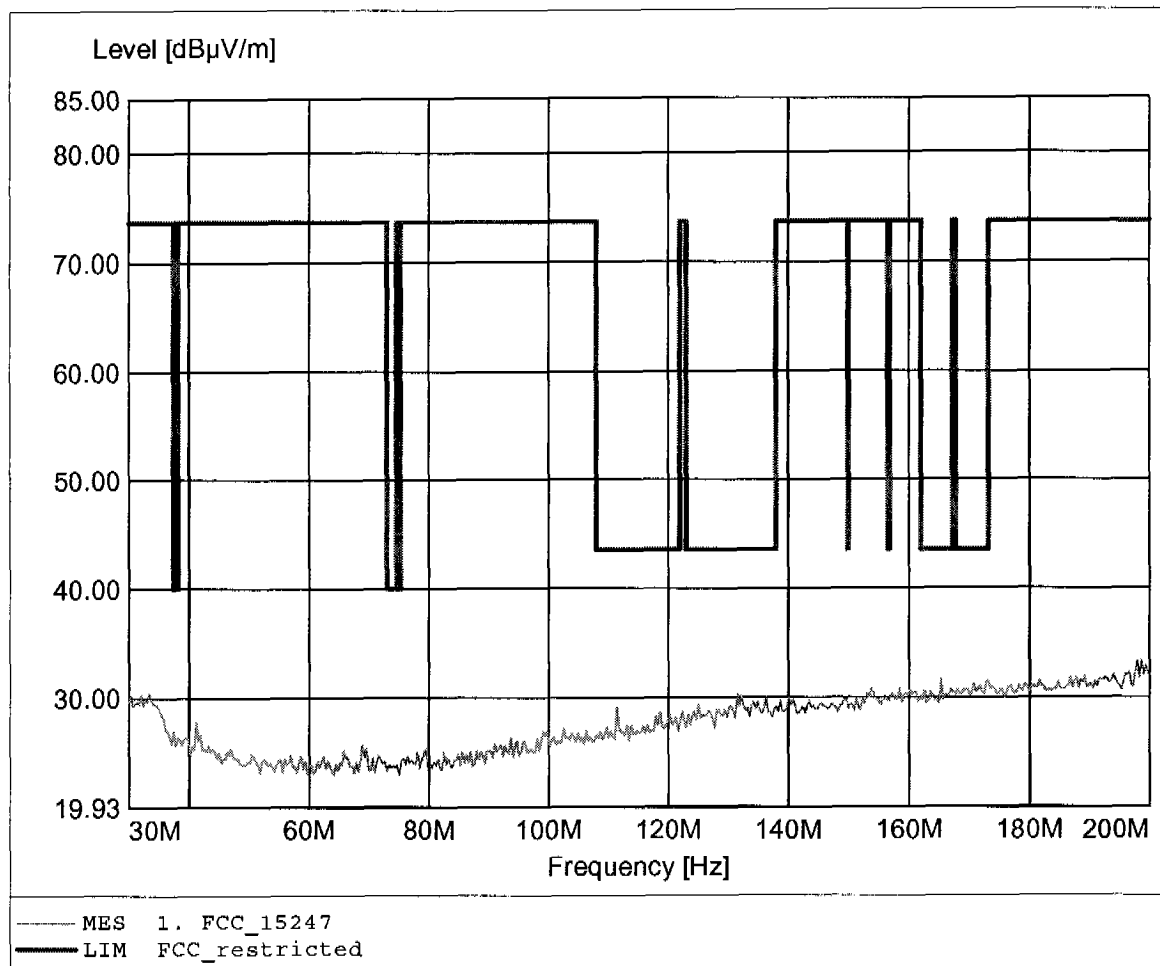
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Emax: 93.67dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

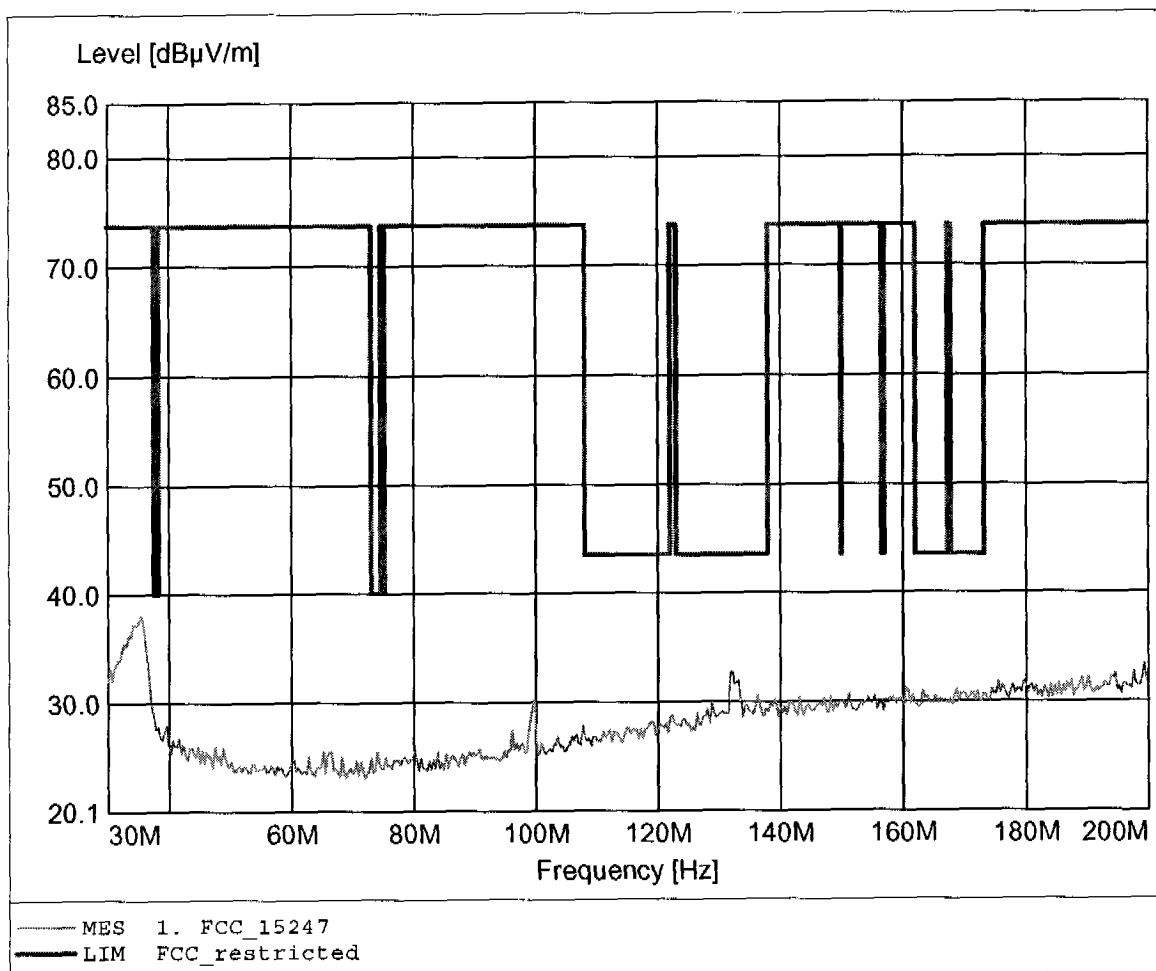
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 198.637MHz, Emax: 33.33dBμV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

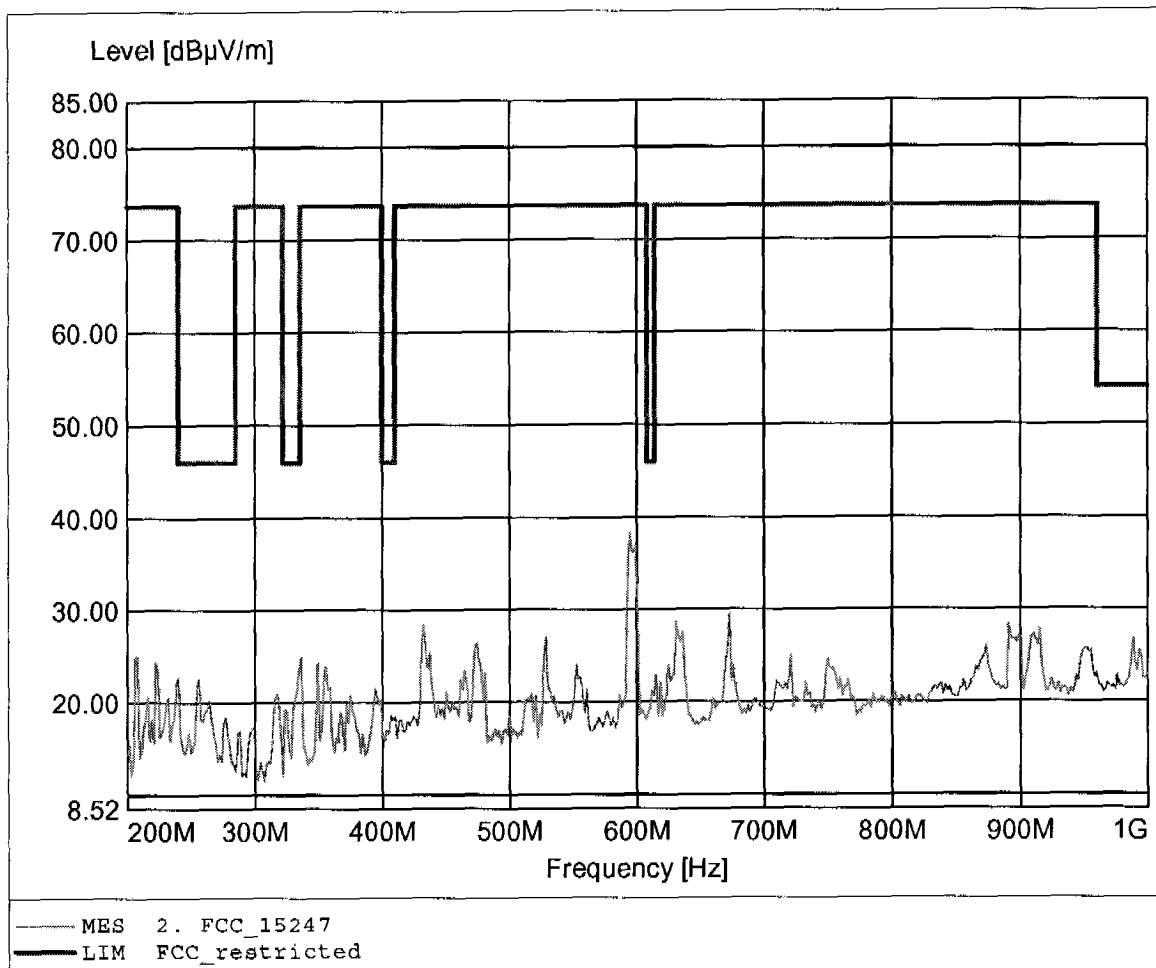
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 35.451MHz, Emax: 38.05dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

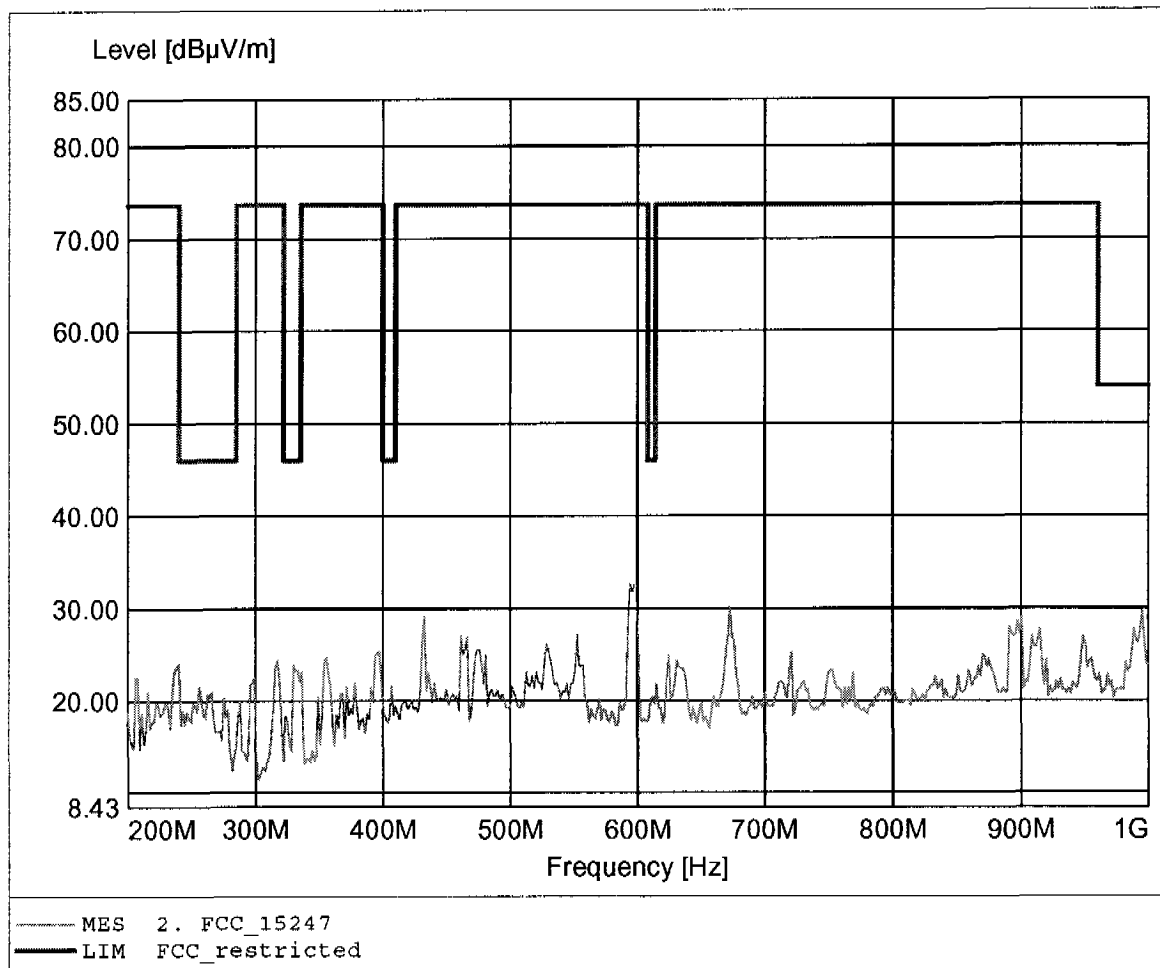
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 594.389MHz, Emax: 38.33dBμV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

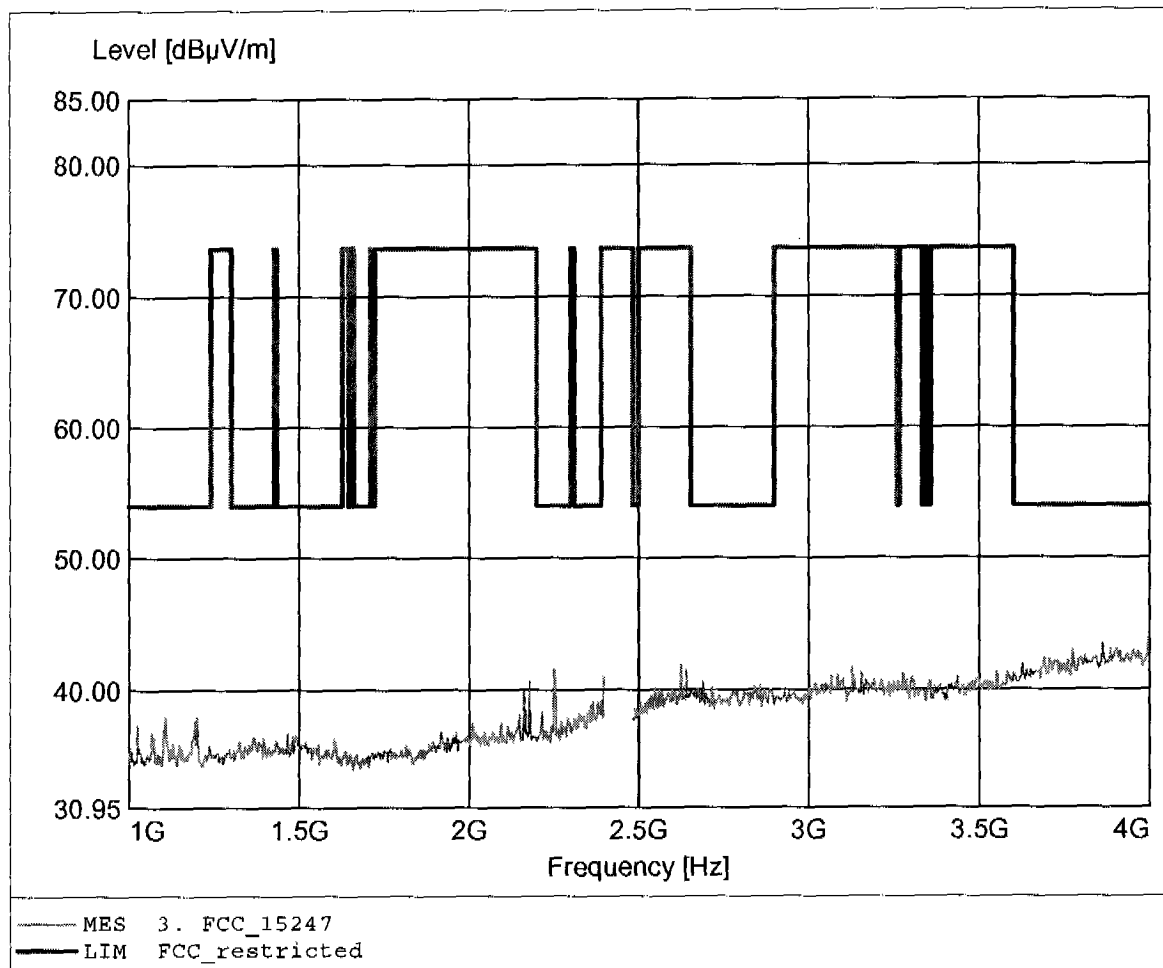
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 594.389MHz, Emax: 32.63dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

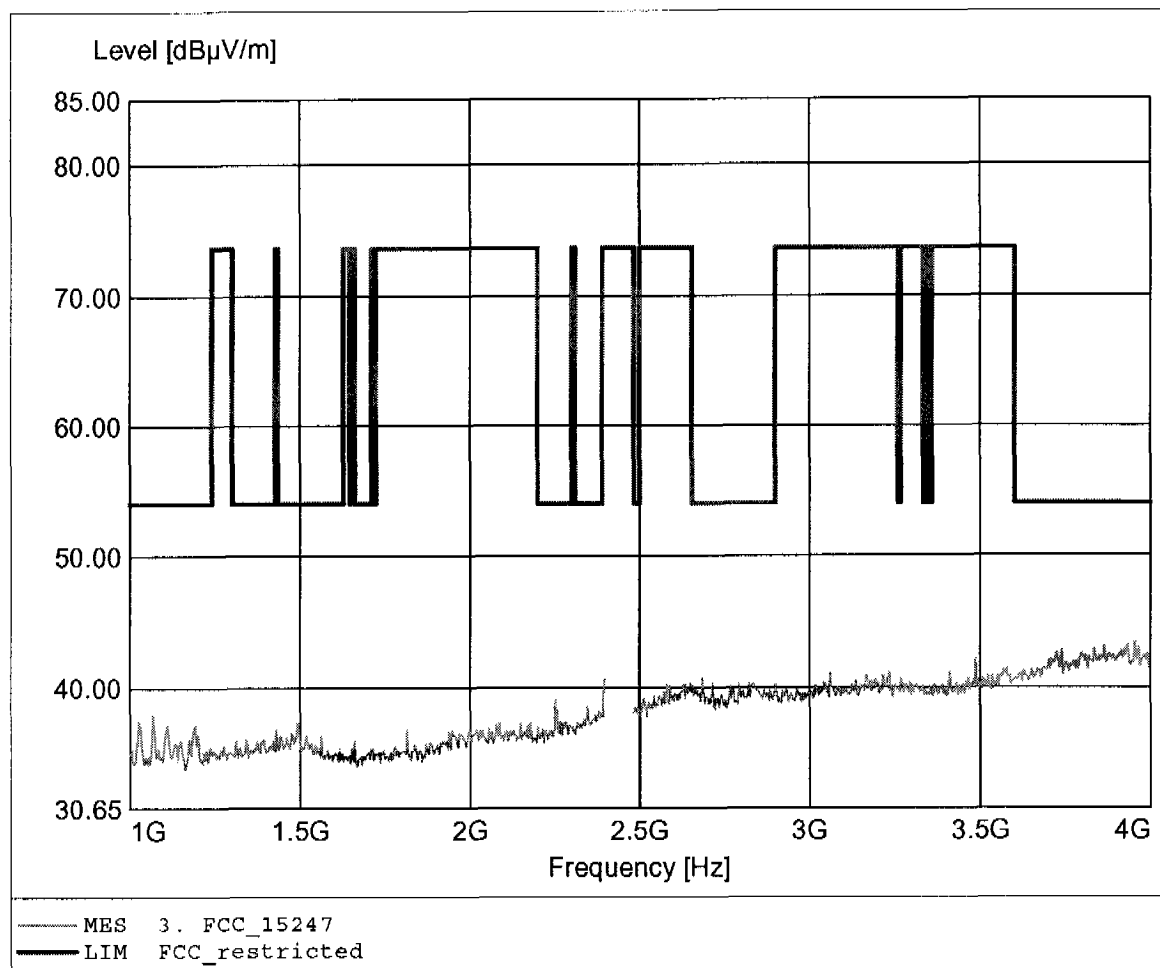
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 3.997GHz, Emax: 43.91dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

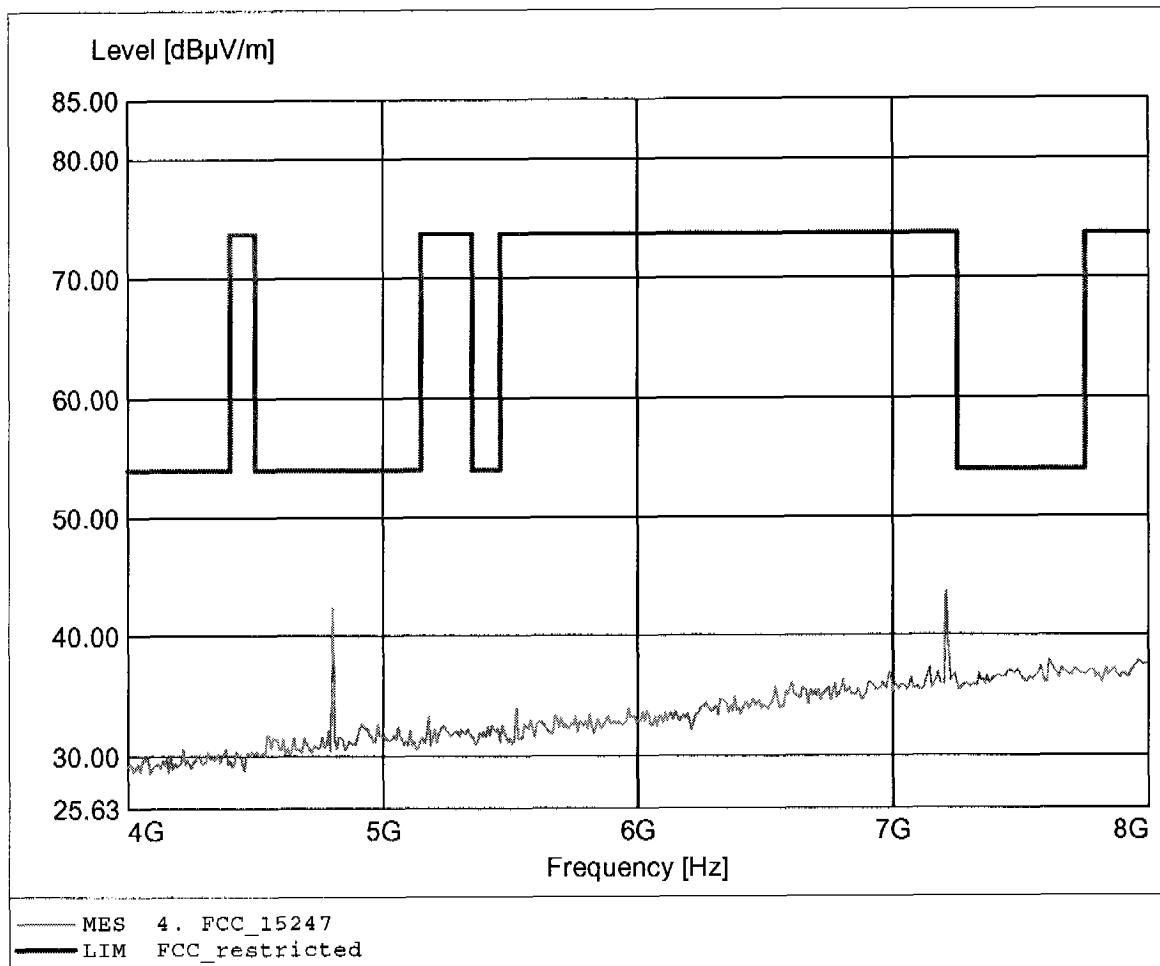
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 3.954GHz, Emax: 43.40dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

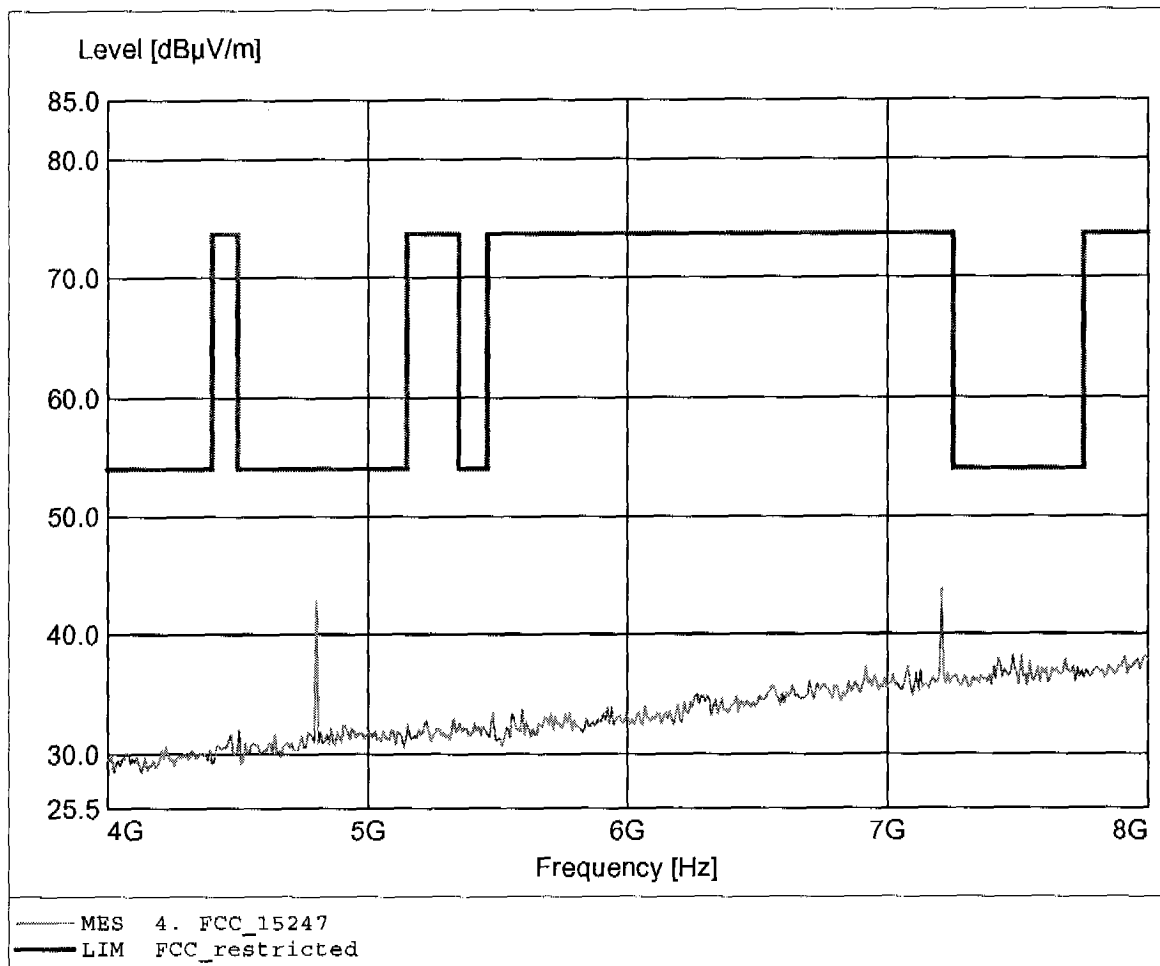
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 7.206GHz, Emax: 43.67dBuV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

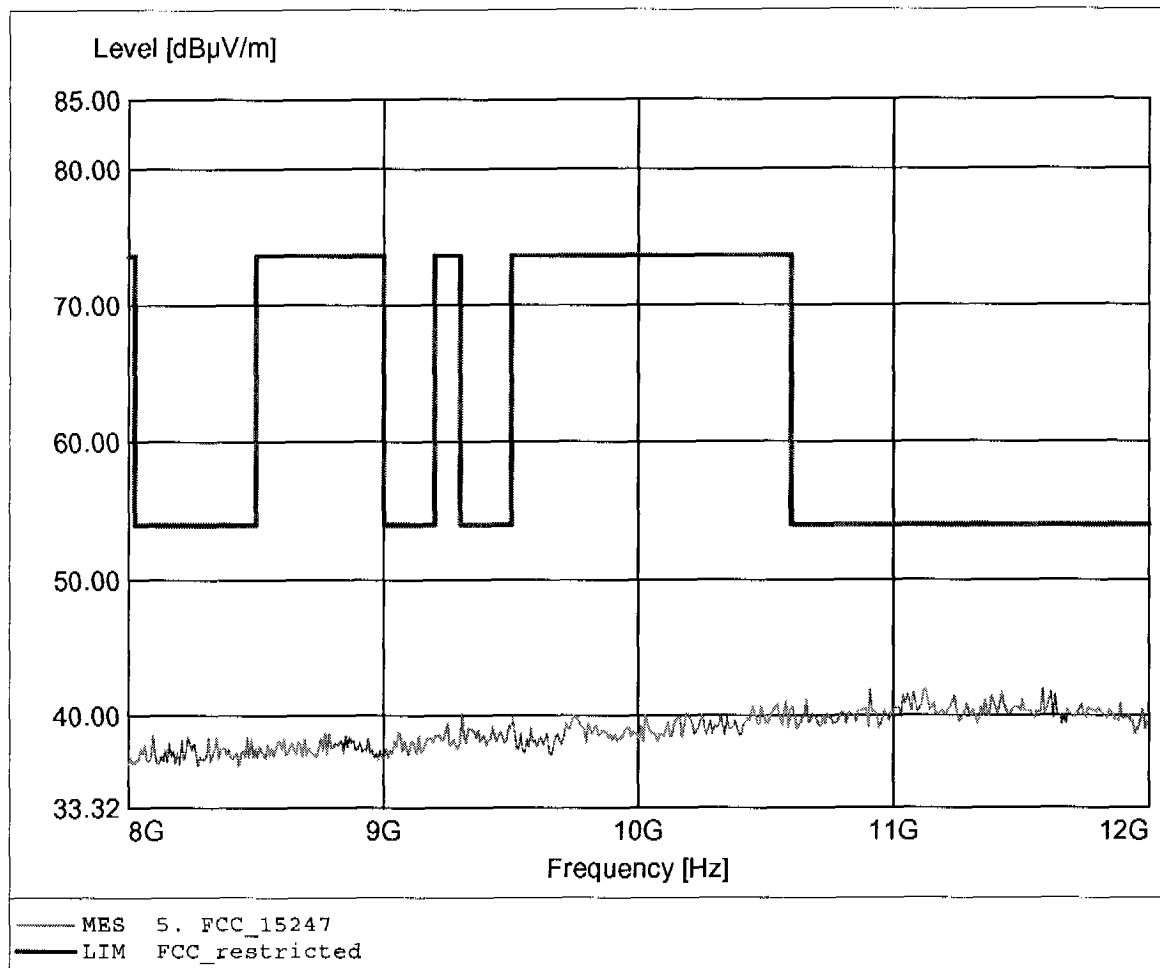
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 7.206GHz, Emax: 43.82dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

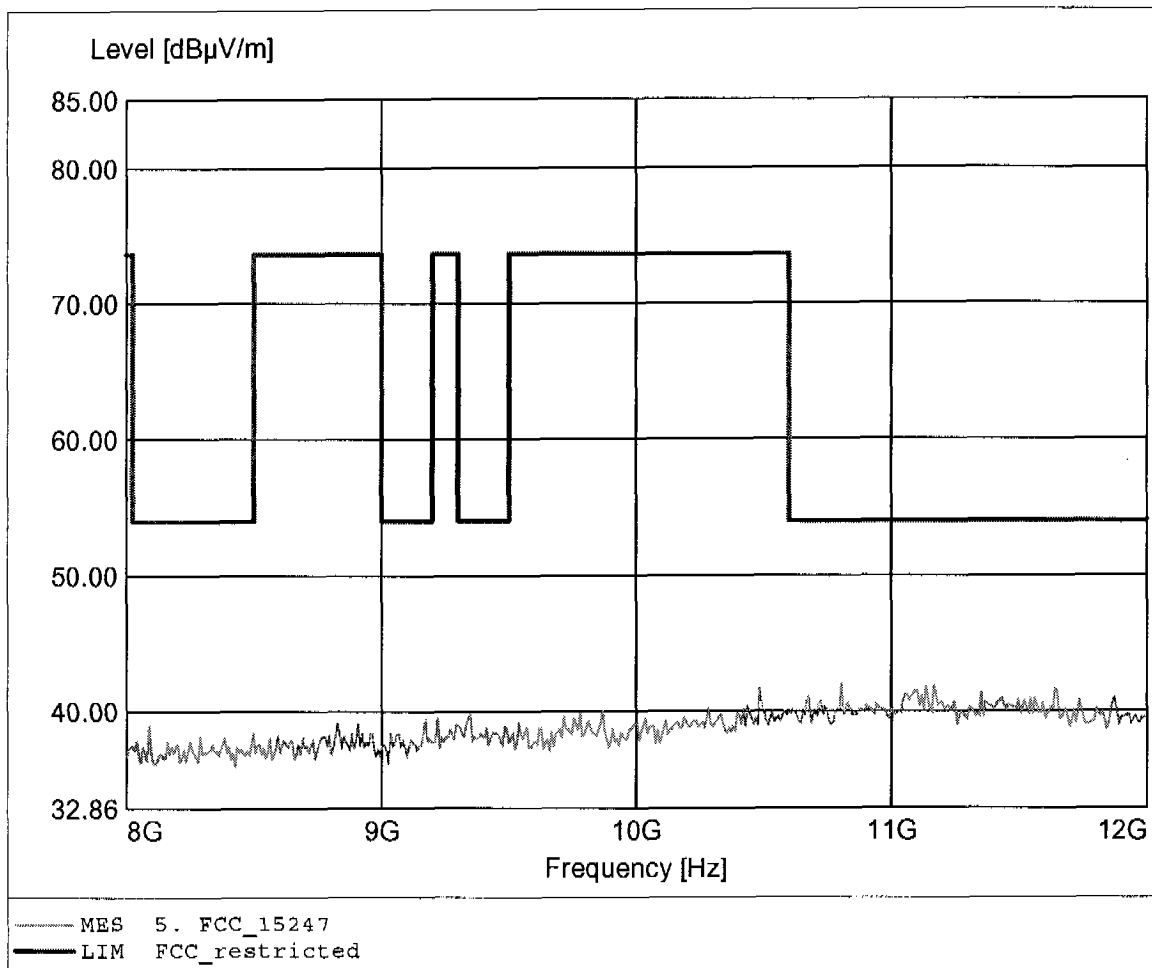
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.583GHz, Emax: 41.95dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

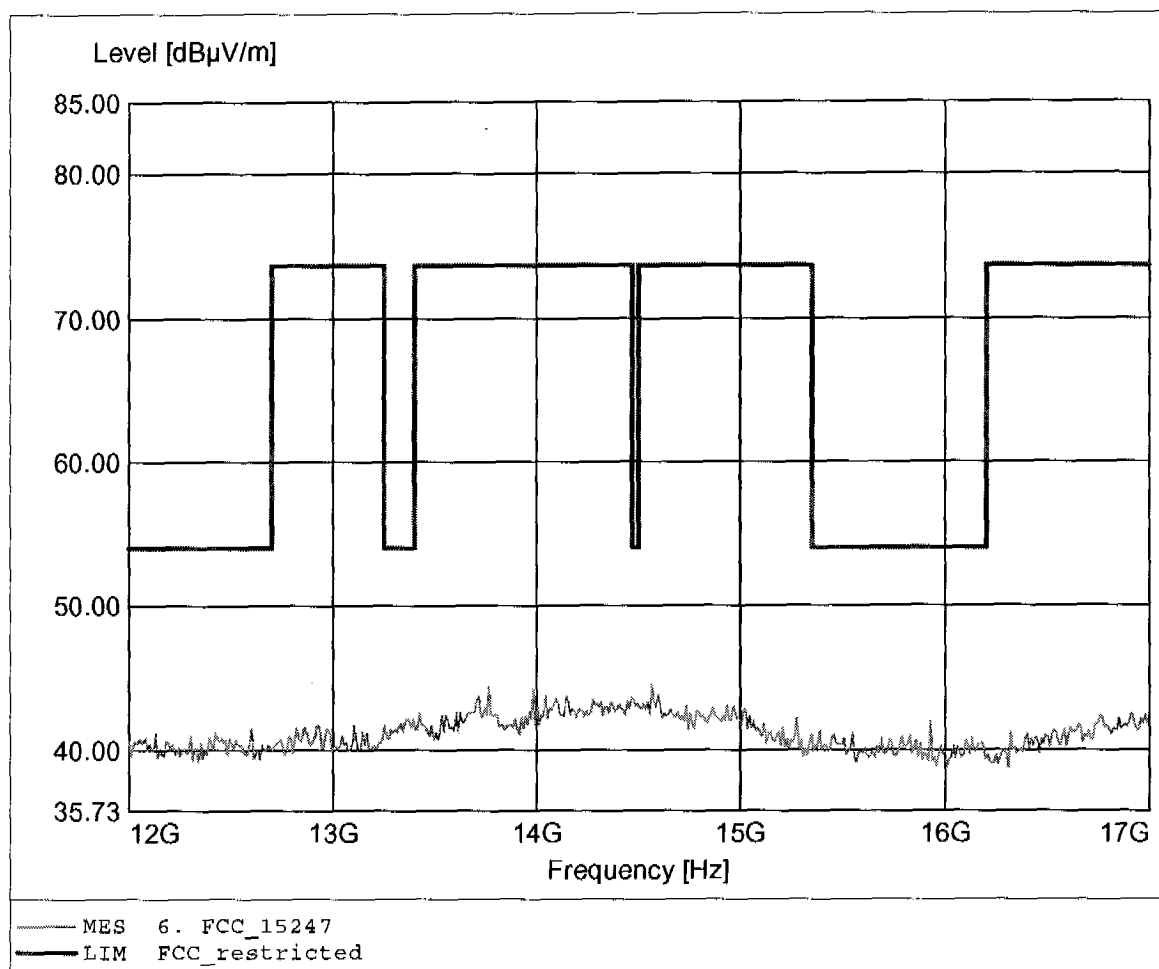
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 10.806GHz, Emax: 42.00dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

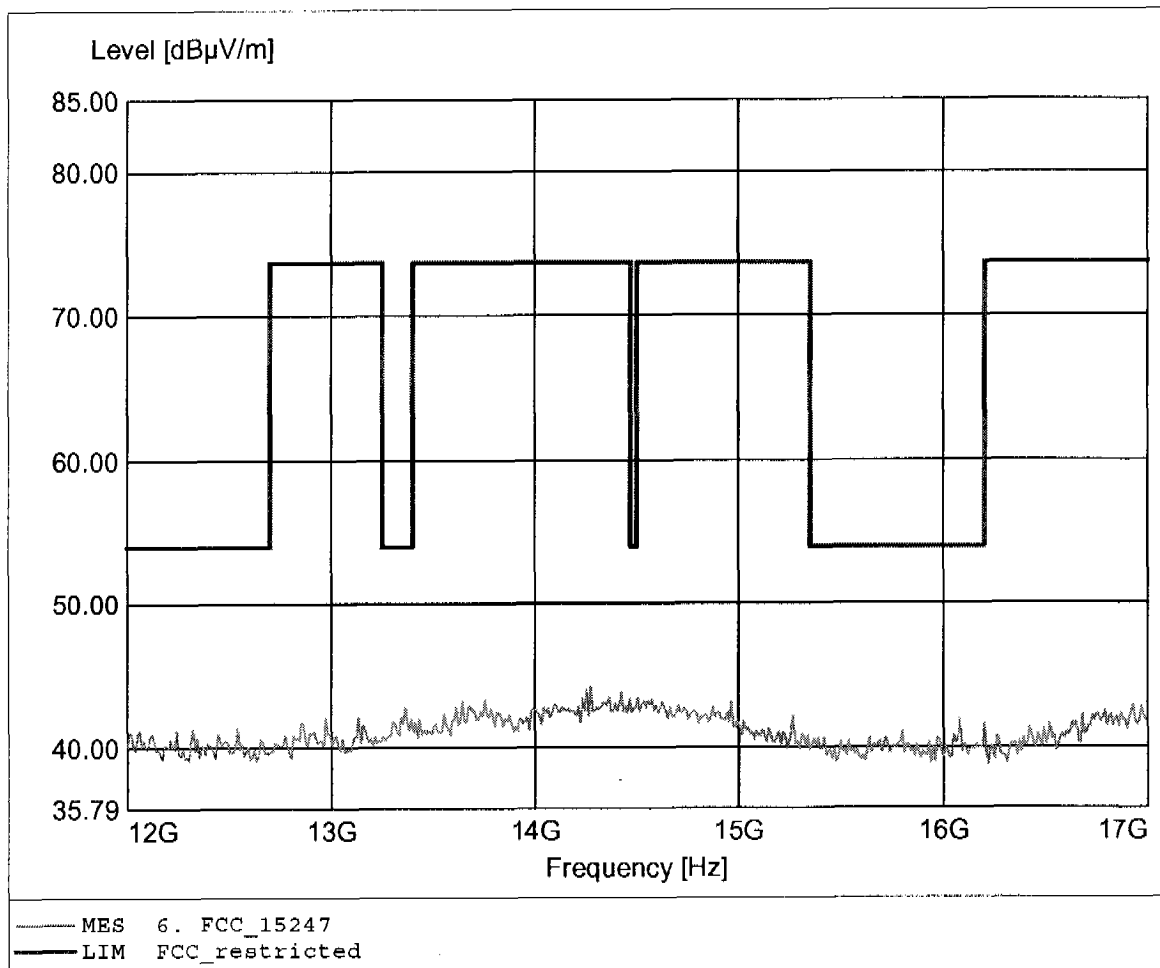
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.565GHz, Emax: 44.52dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

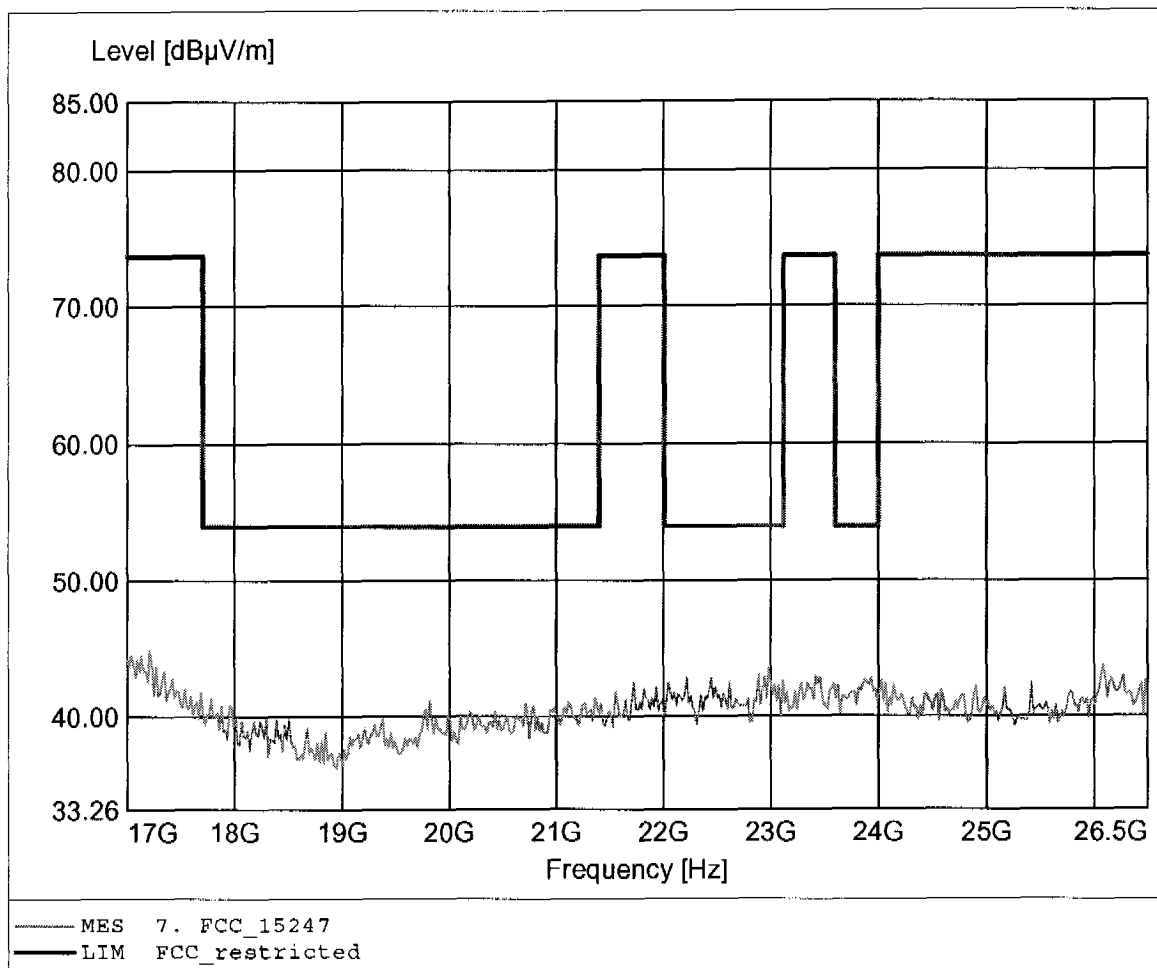
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.275GHz, Emax: 44.23dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

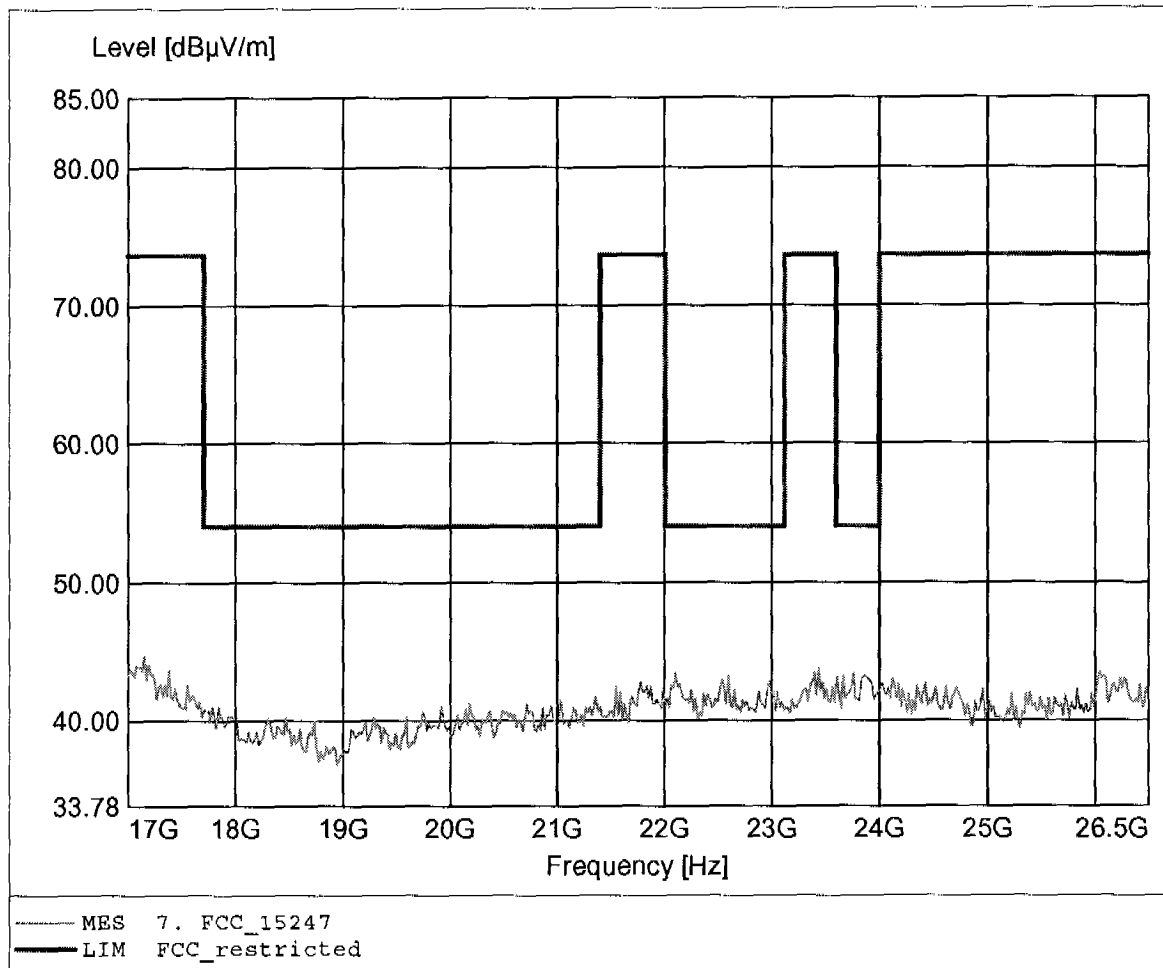
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 17.209GHz, Emax: 44.81dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

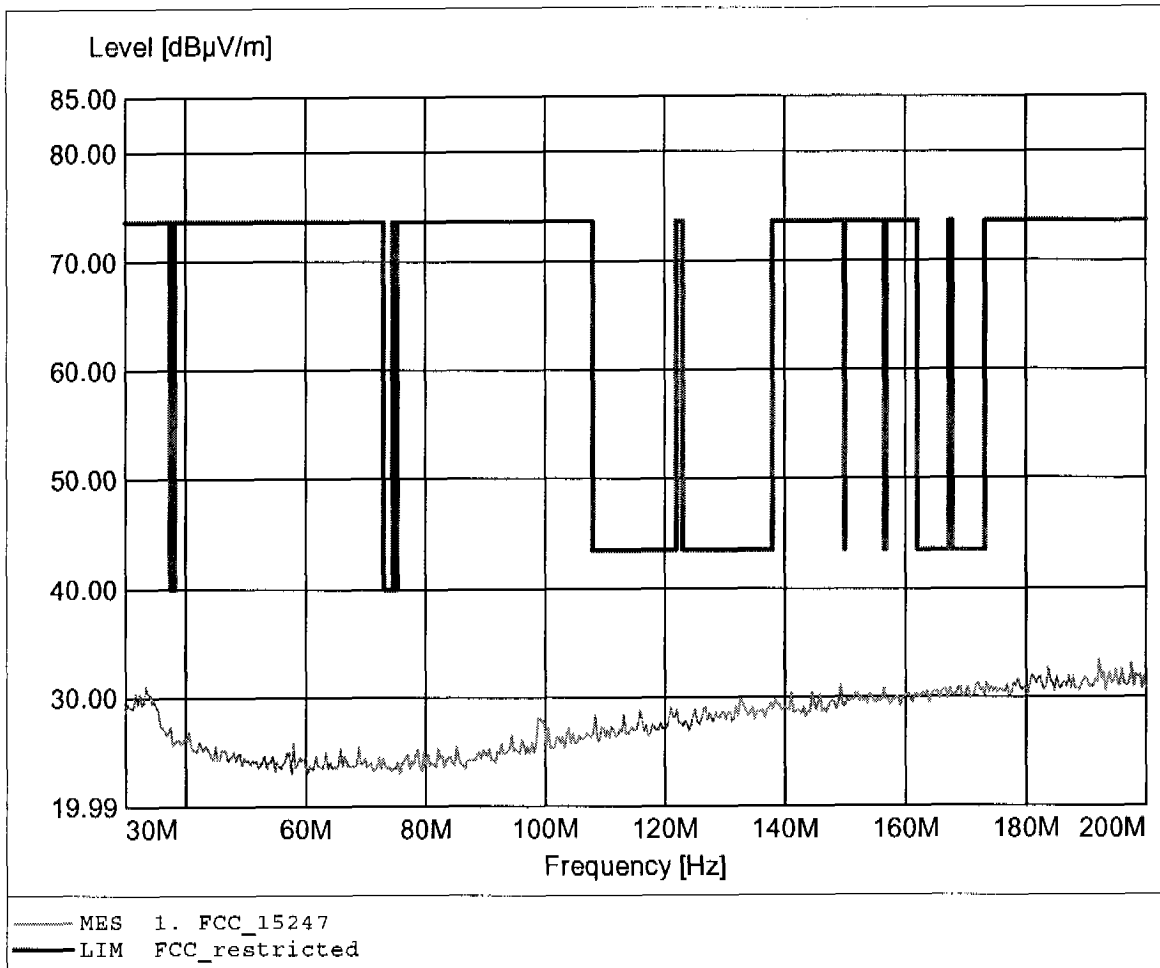
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2402 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 17.152GHz, Emax: 44.69dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

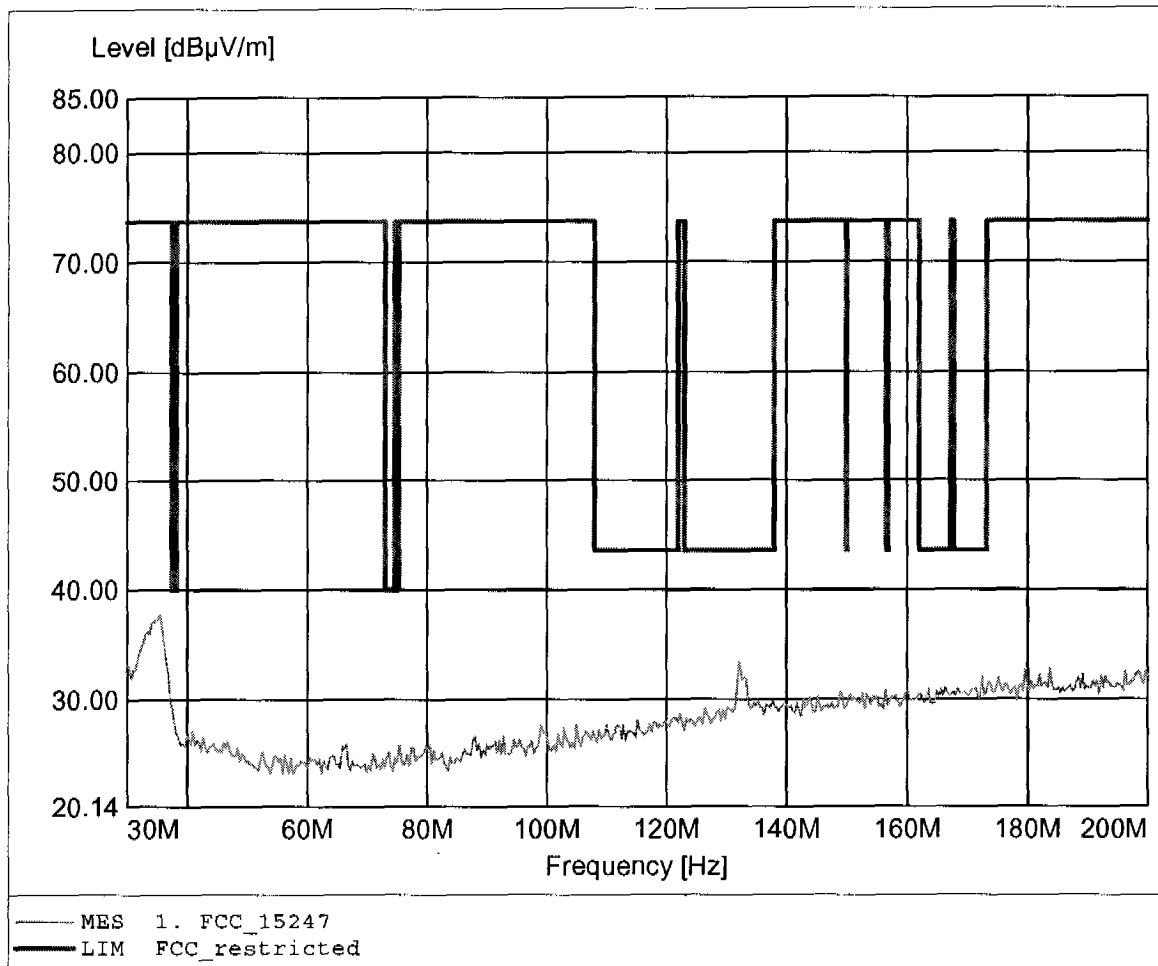
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 192.164MHz, Emax: 33.36dBuV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

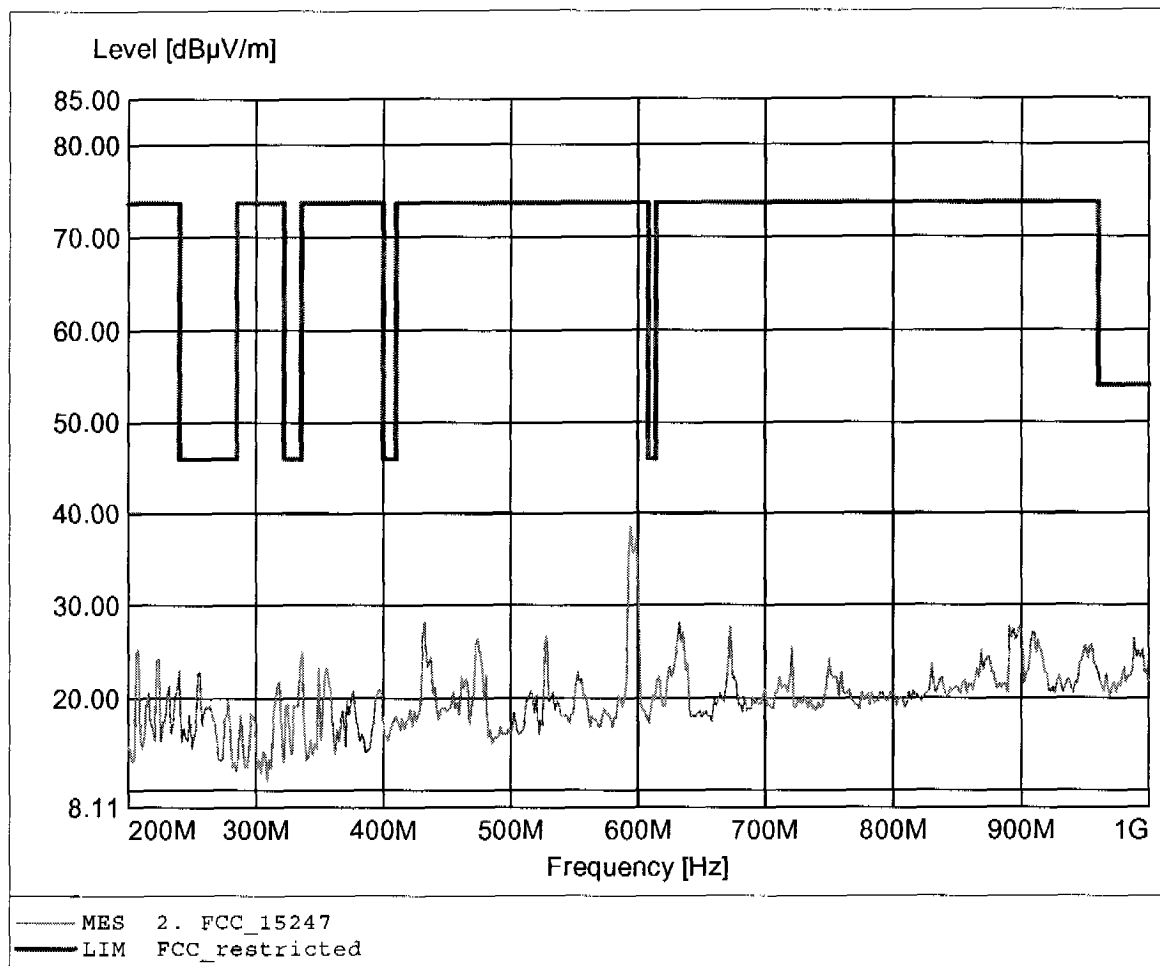
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 35.451MHz, Emax: 37.80dBuV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

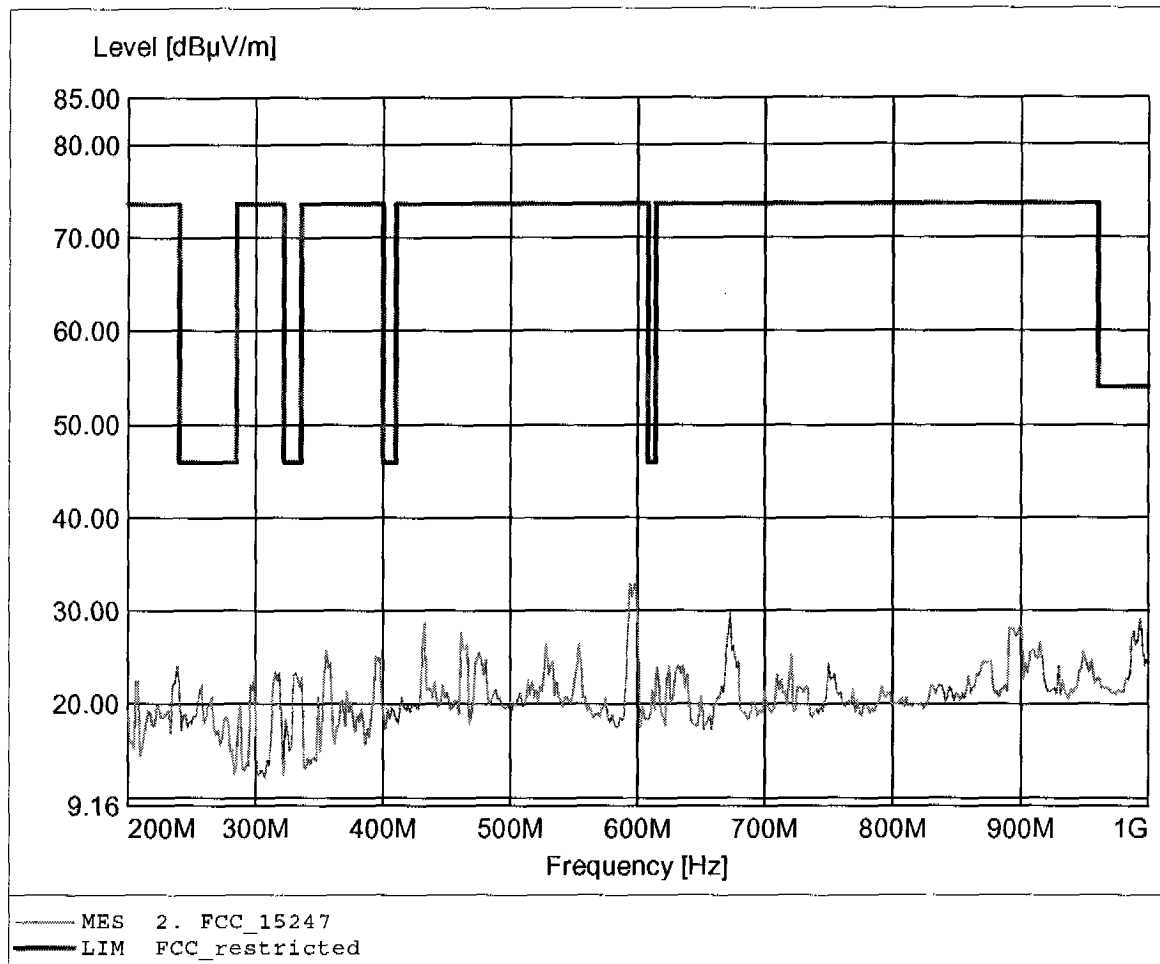
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 594.389MHz, Emax: 38.50dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

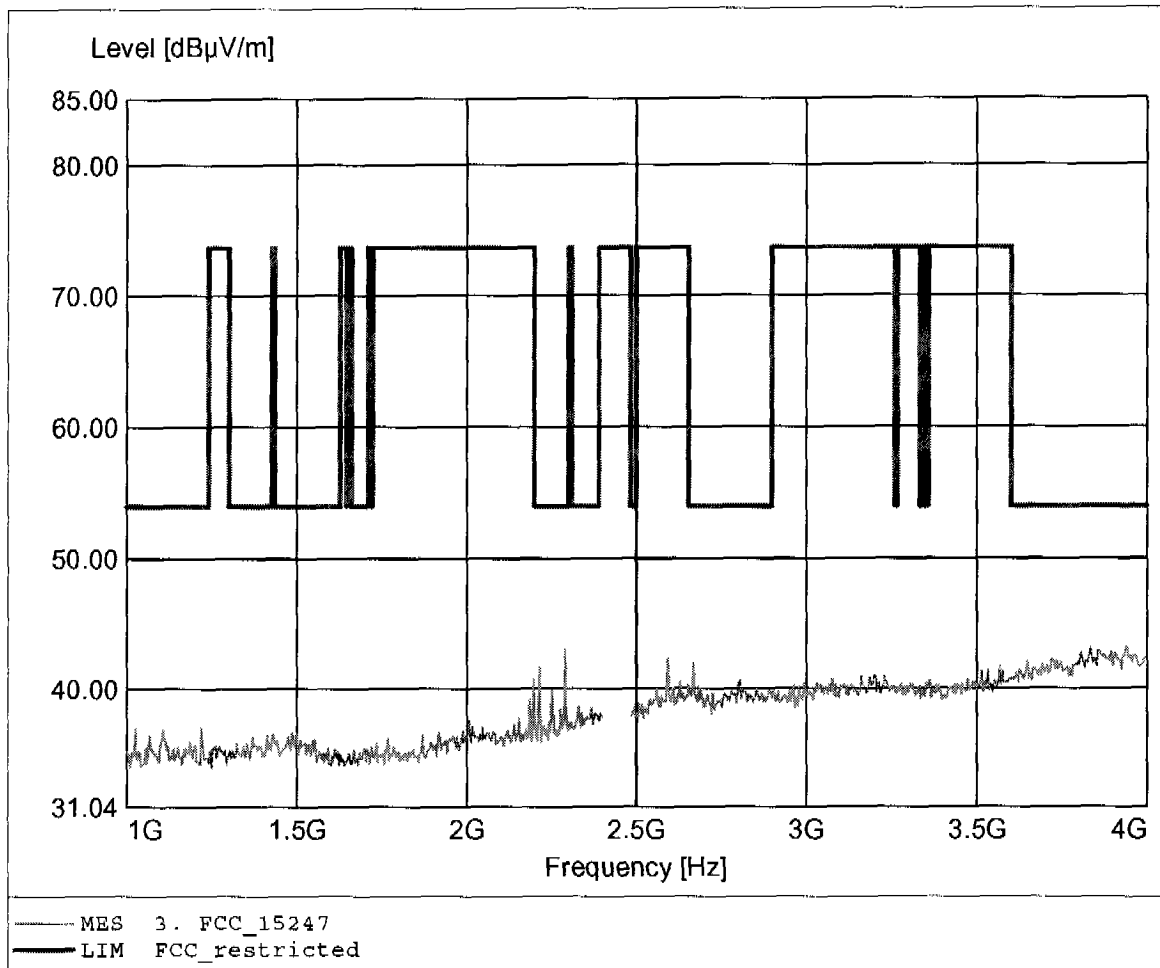
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 599.198MHz, Emax: 33.28dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

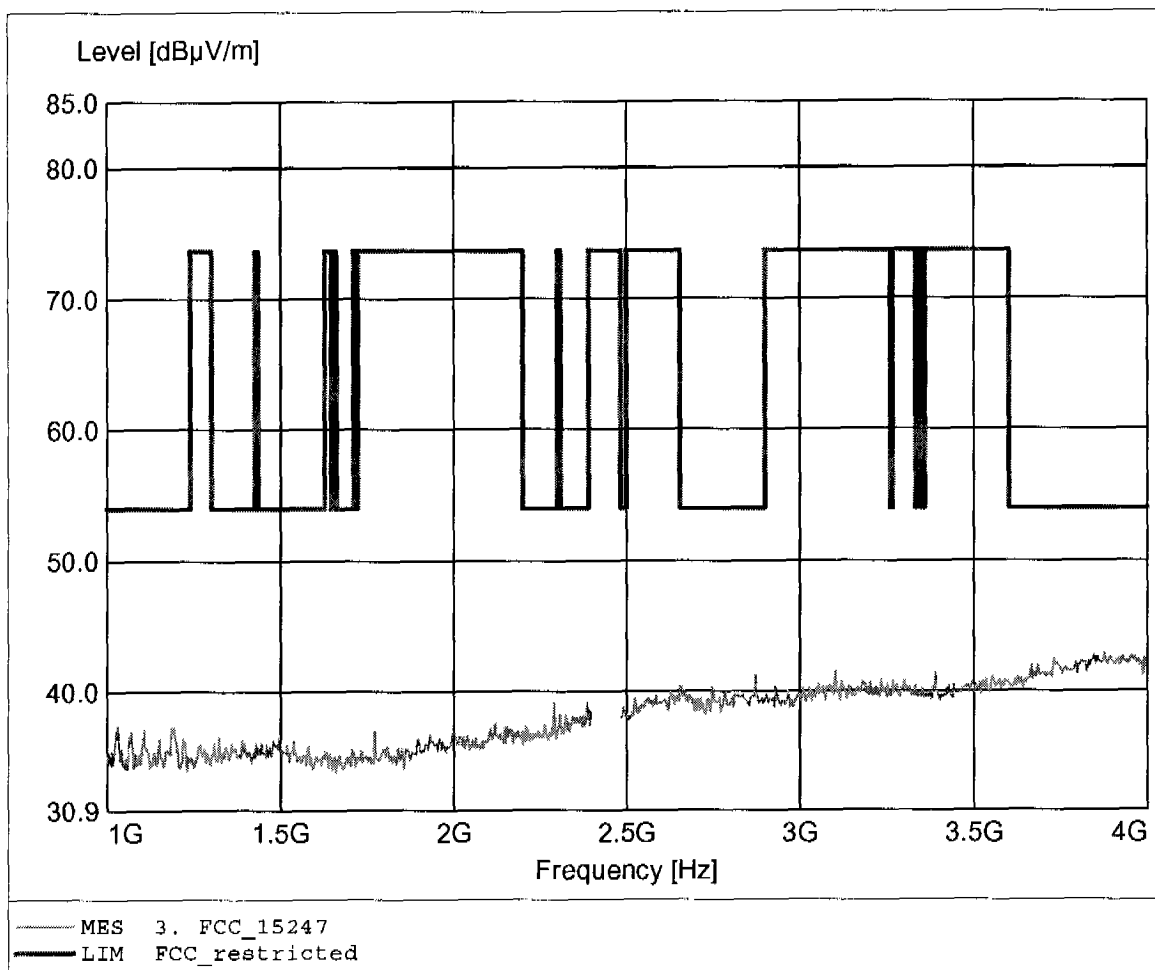
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 3.939GHz, Emax: 43.19dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

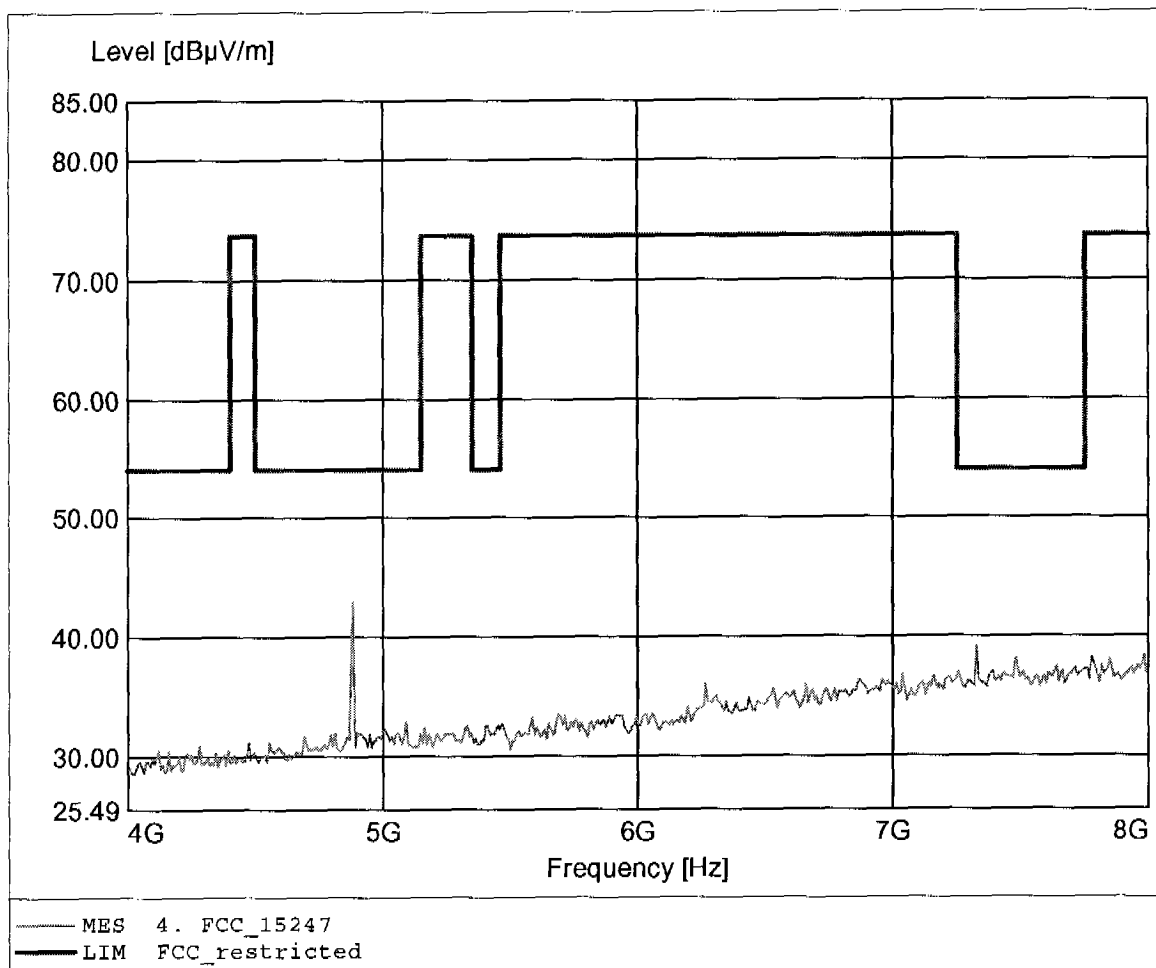
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 3.875GHz, Emax: 42.85dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

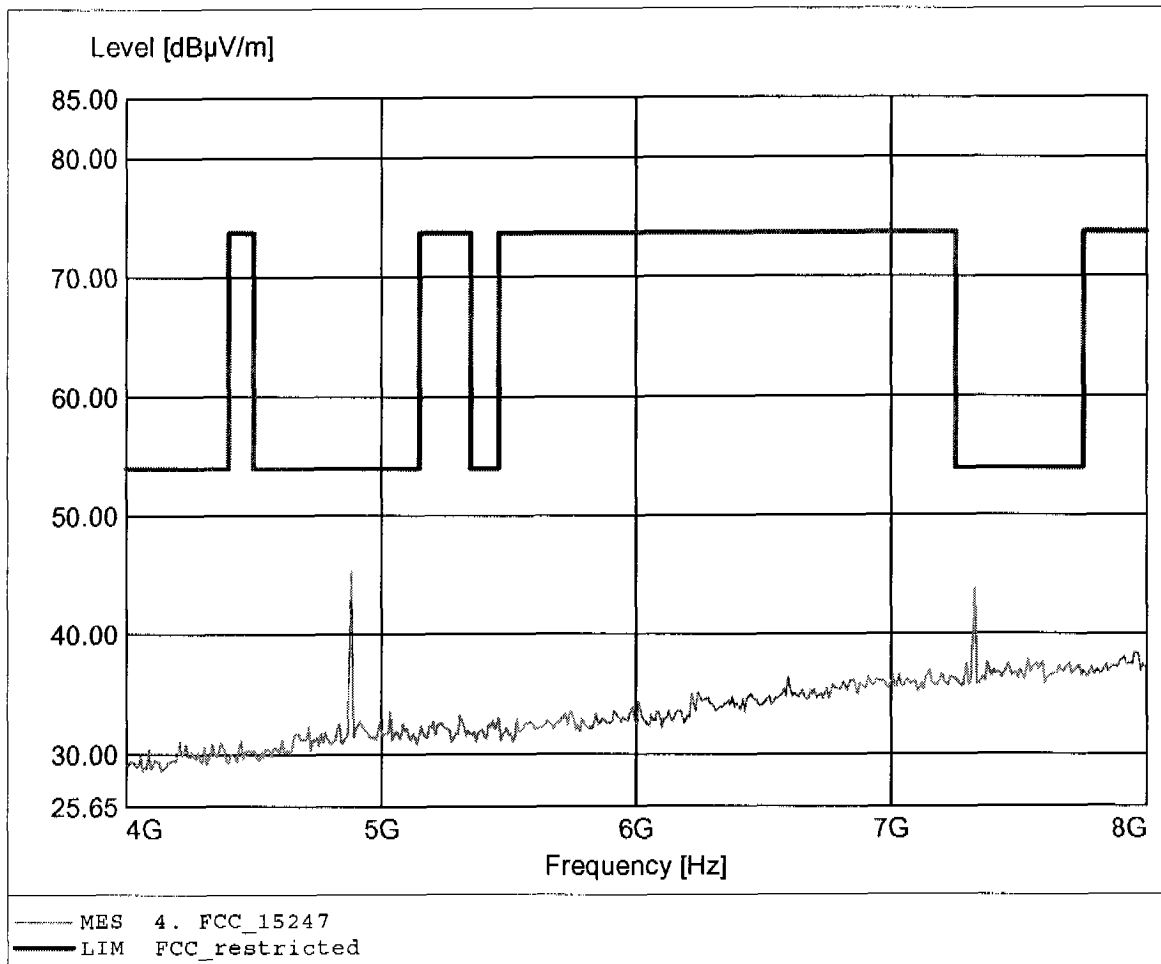
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.882GHz, Emax: 42.94dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

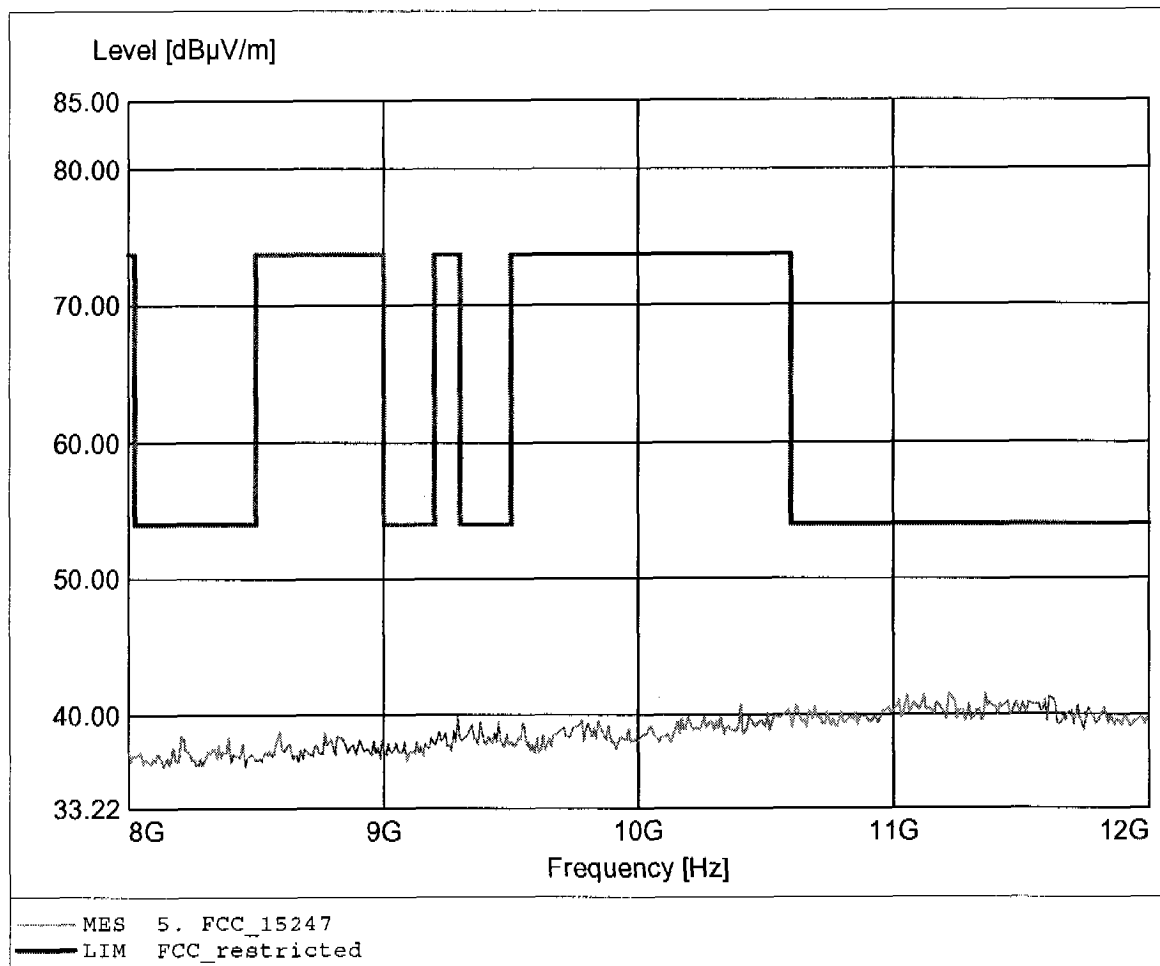
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.882GHz, Emax: 45.27dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

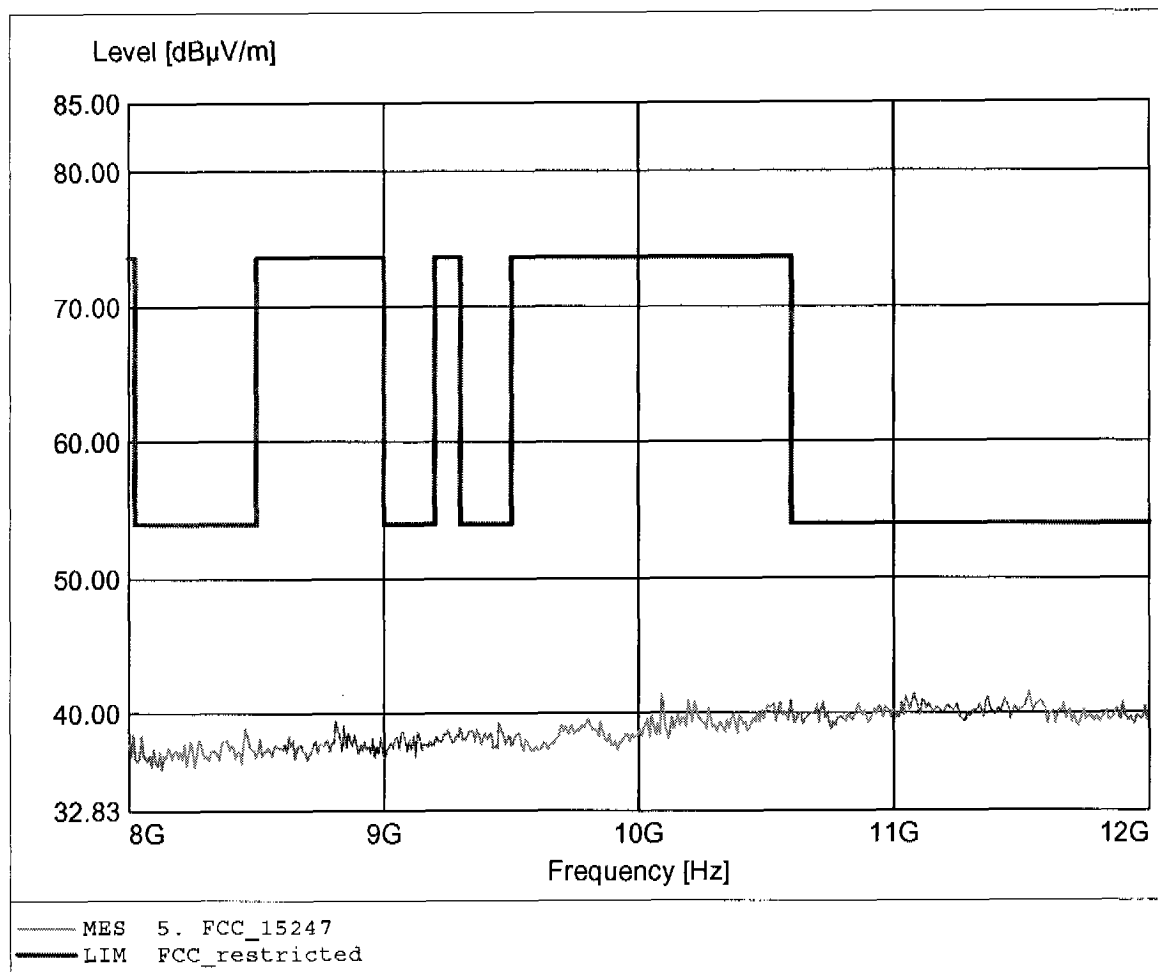
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.214GHz, Emax: 41.53dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

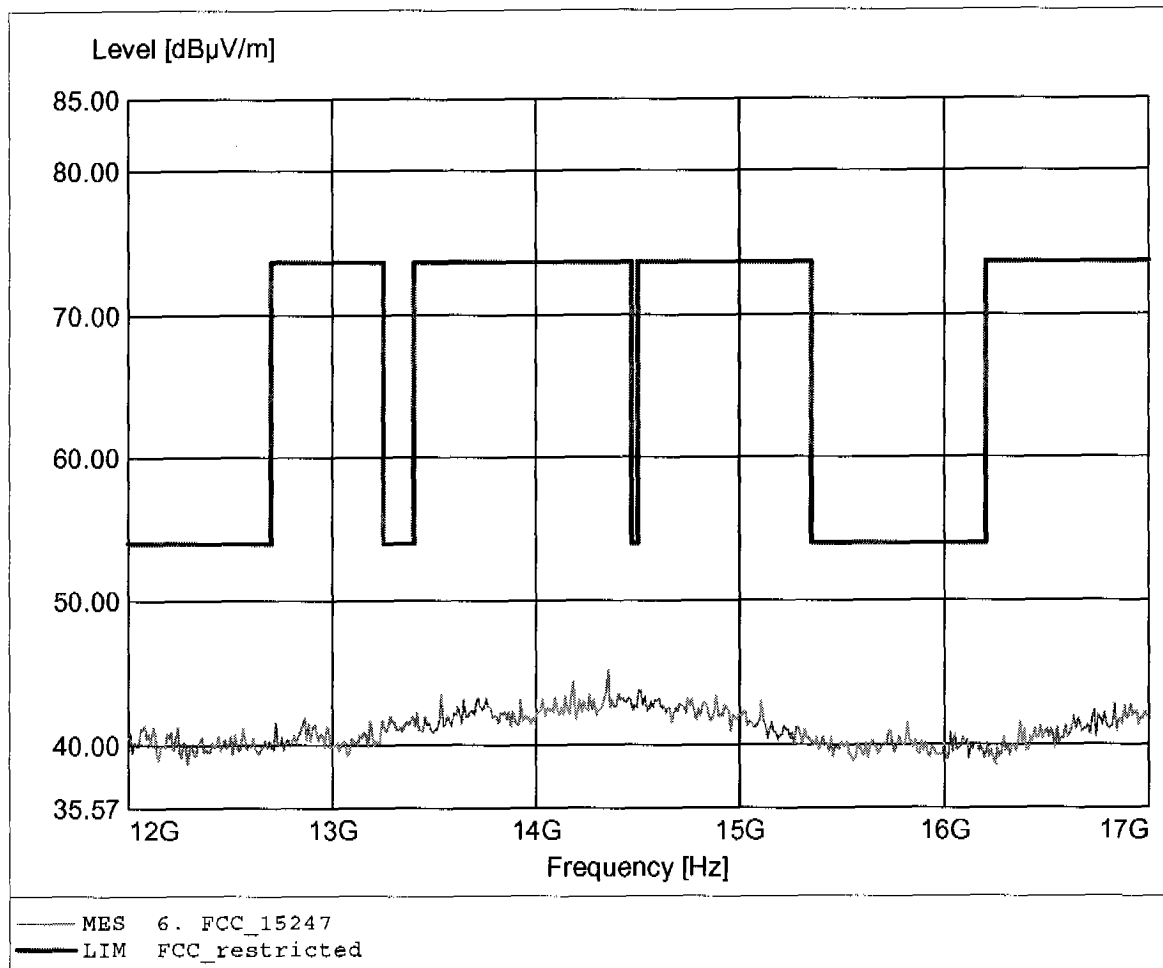
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.527GHz, Emax: 41.54dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

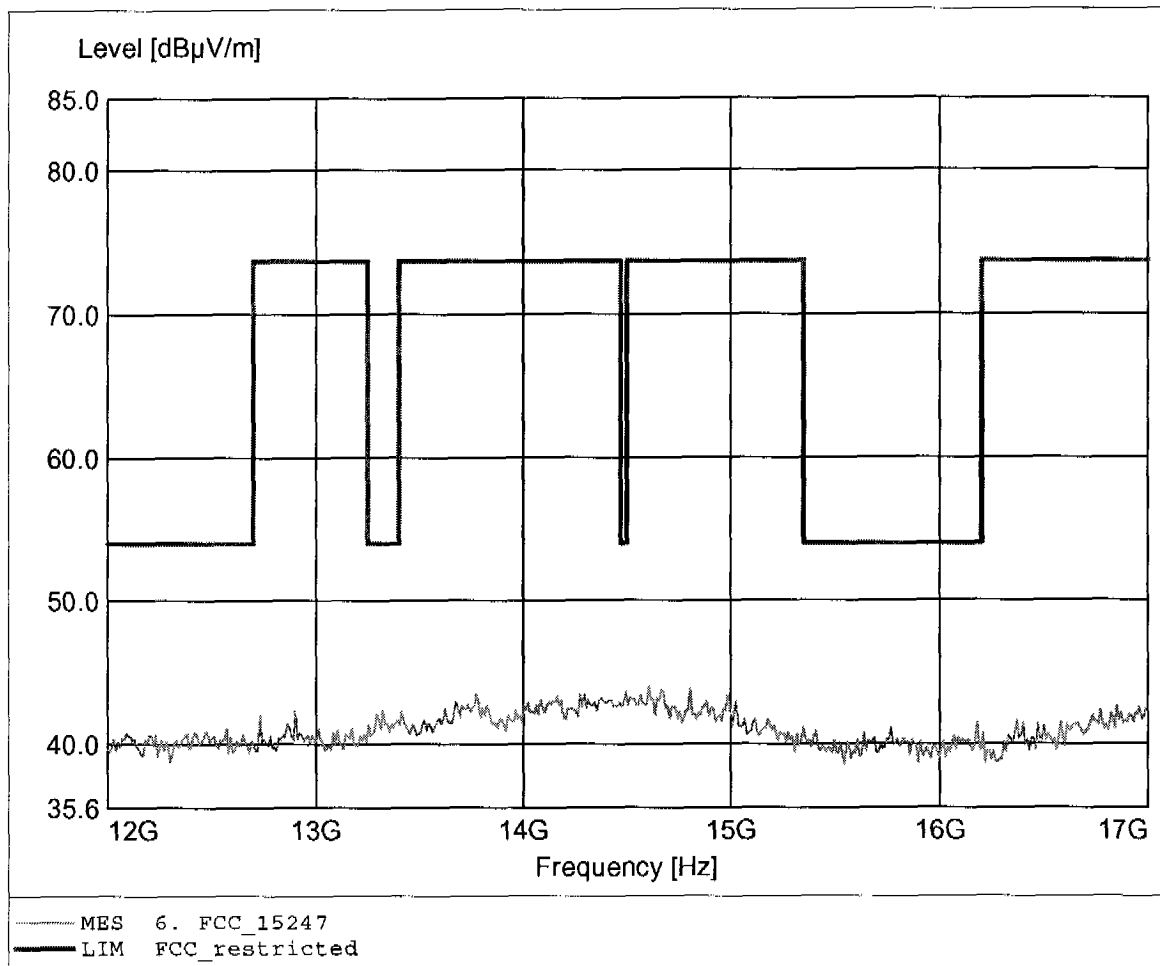
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.355GHz, Emax: 45.24dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

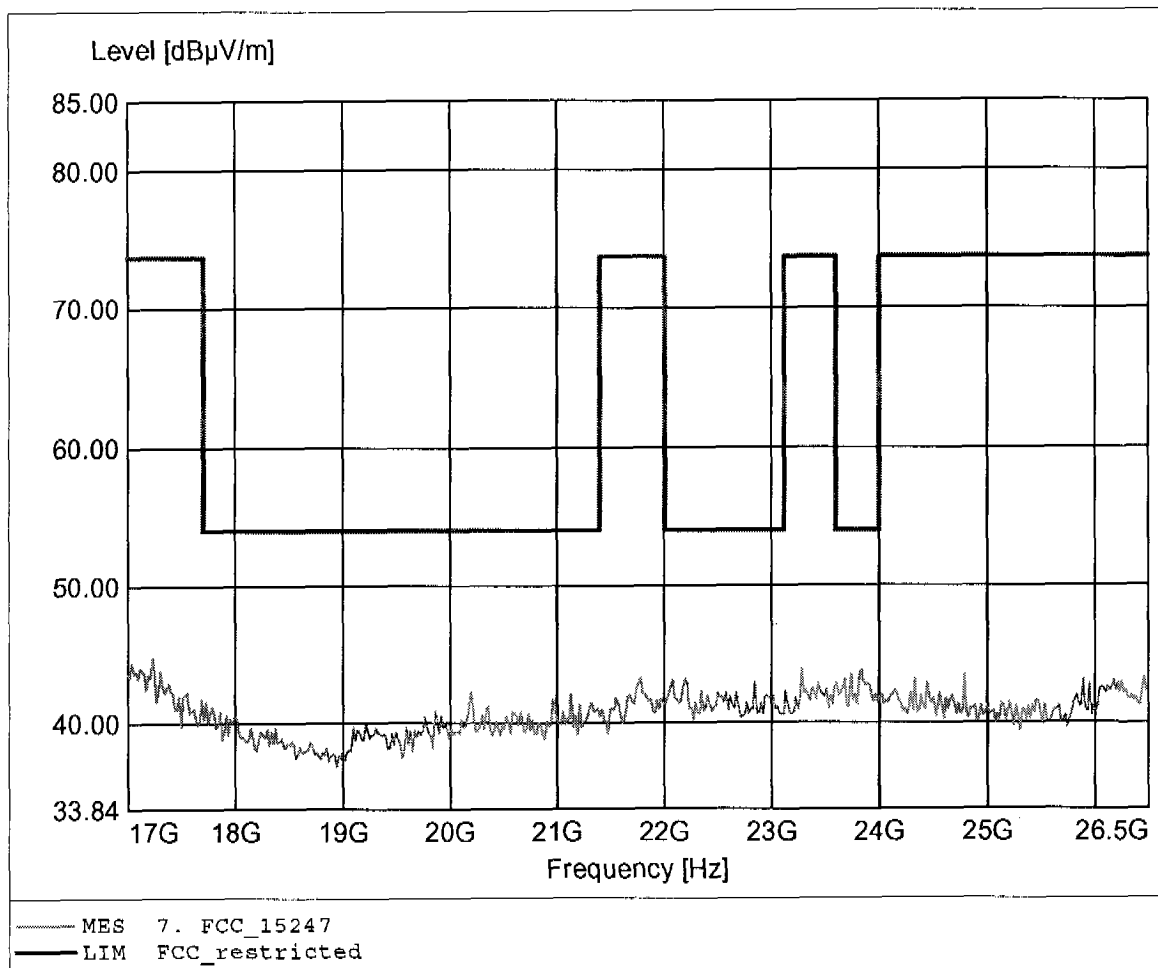
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.605GHz, Emax: 43.99dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

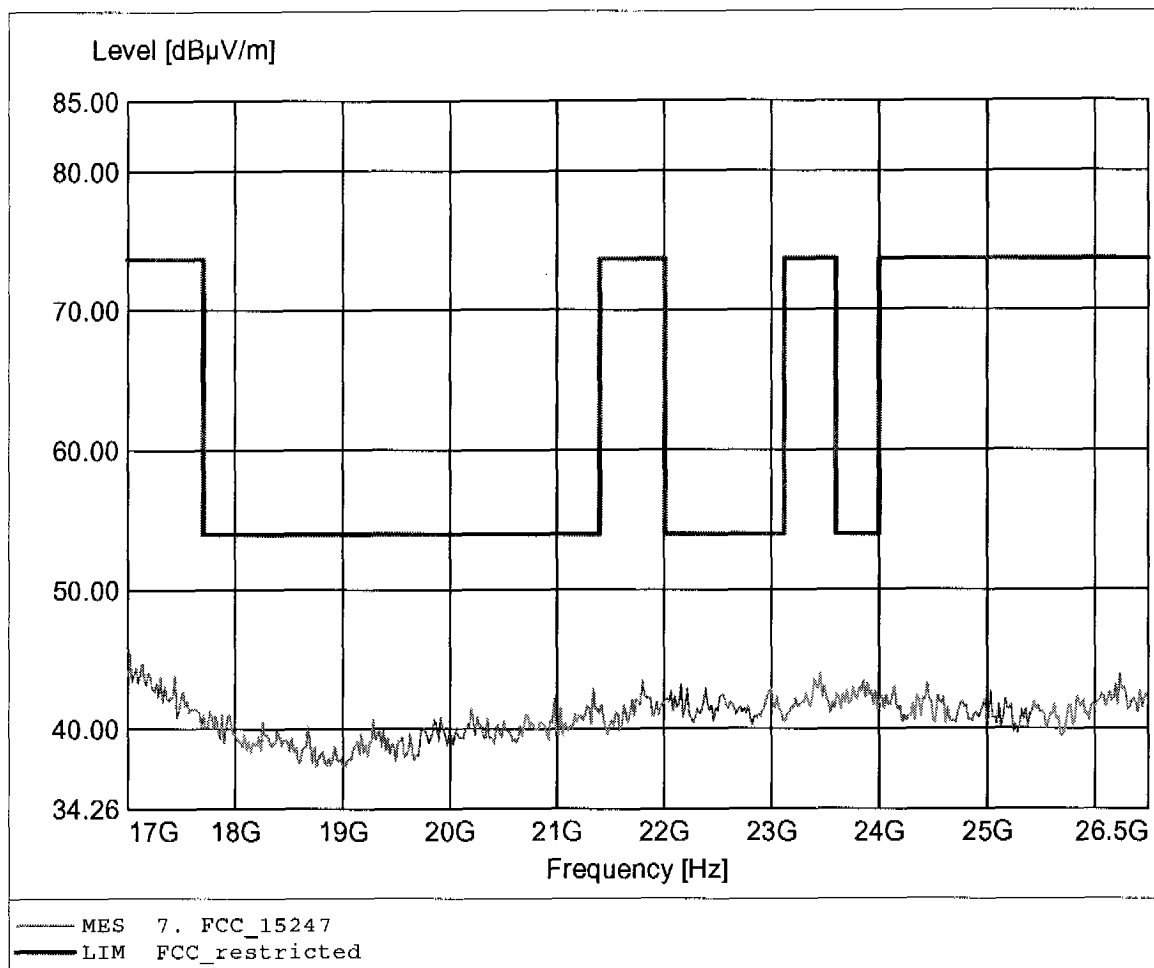
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 17.228GHz, Emax: 44.79dBuV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

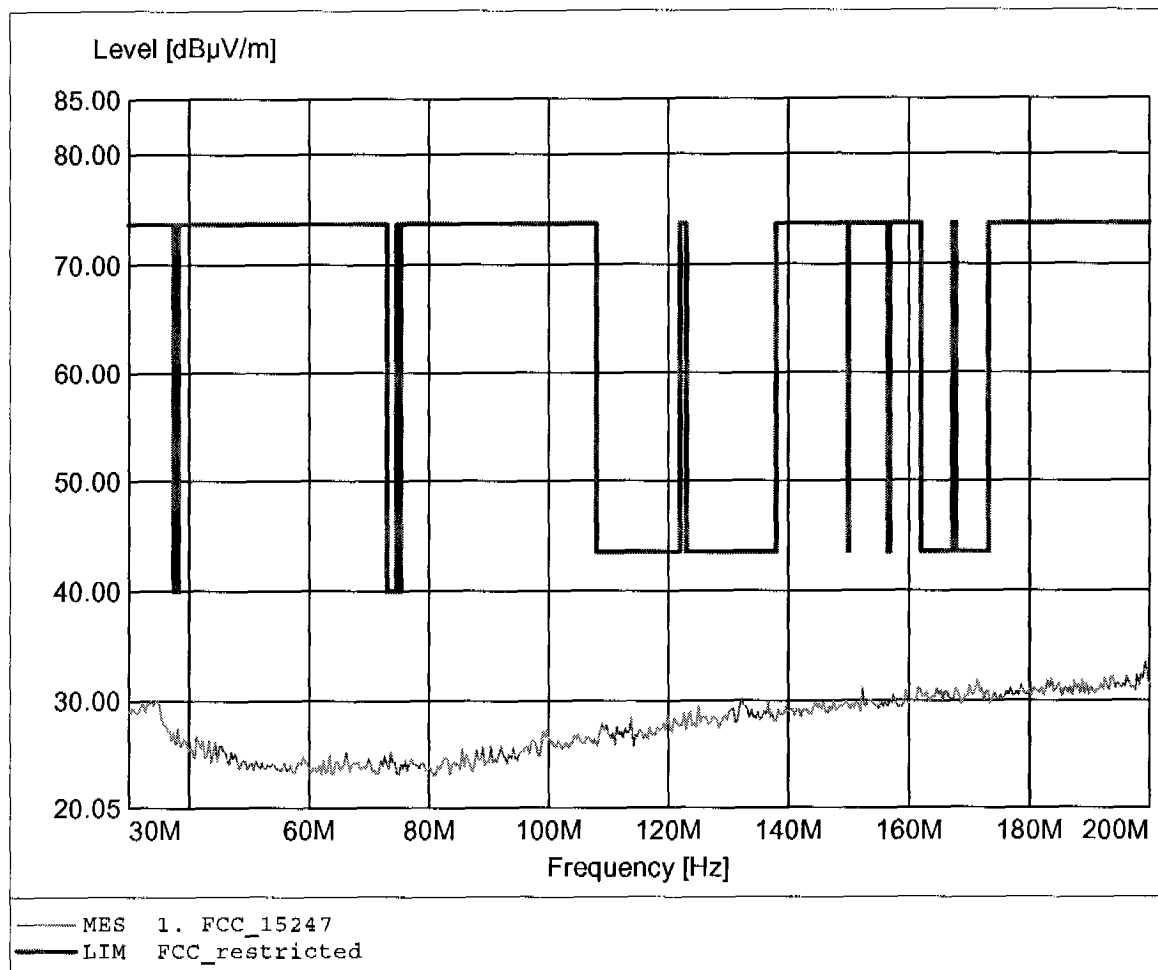
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2441 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 17.019GHz, Emax: 45.36dBuV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

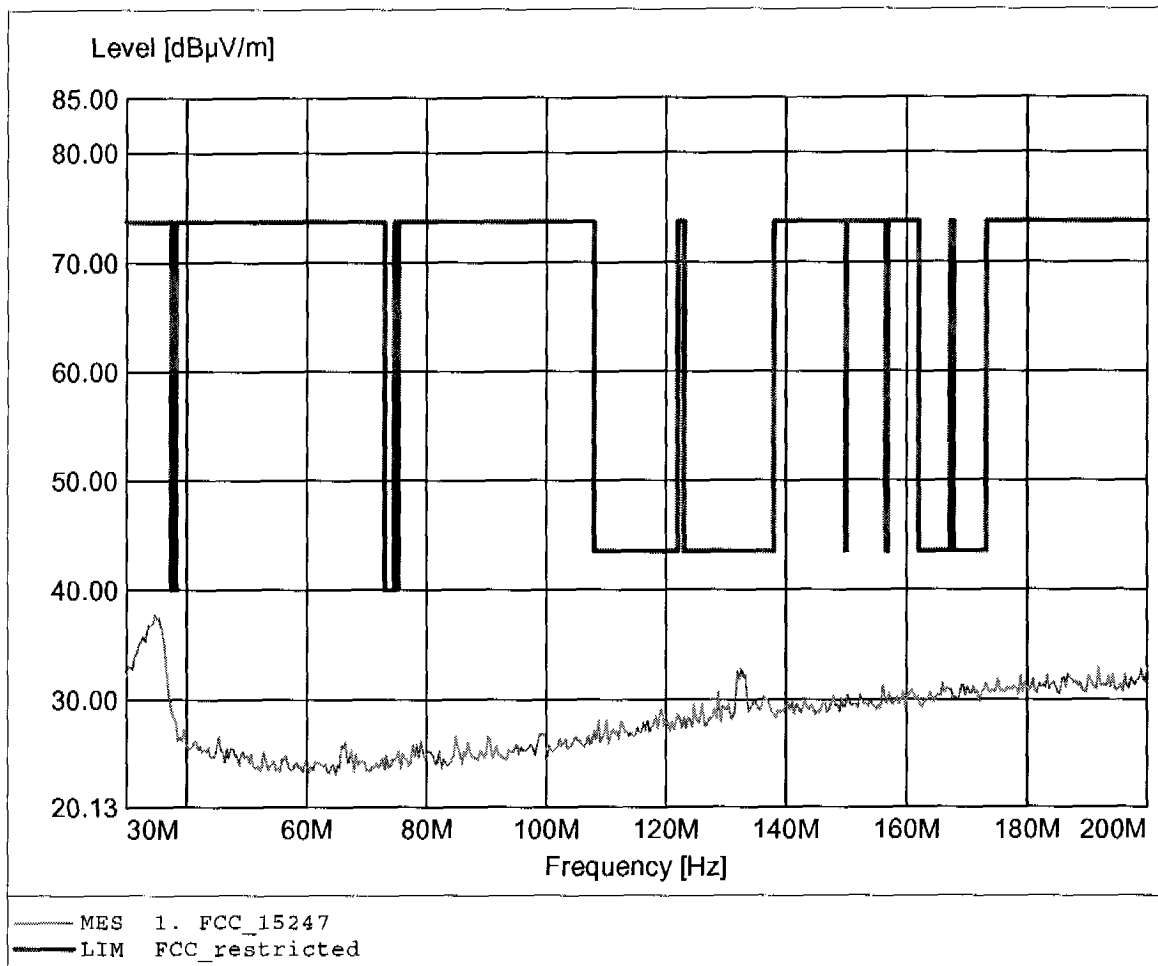
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 199.319MHz, Emax: 33.49dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

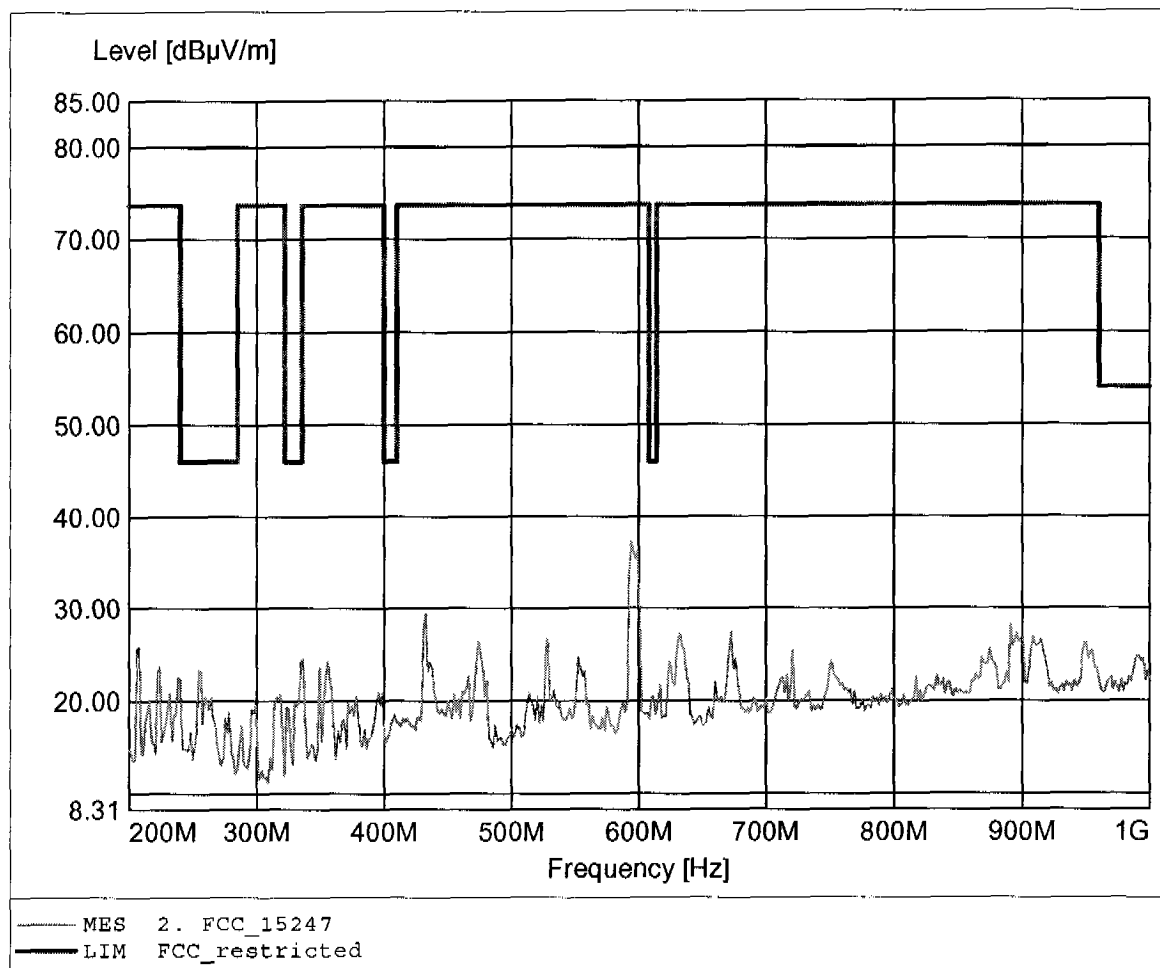
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 34.770MHz, Emax: 37.75dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

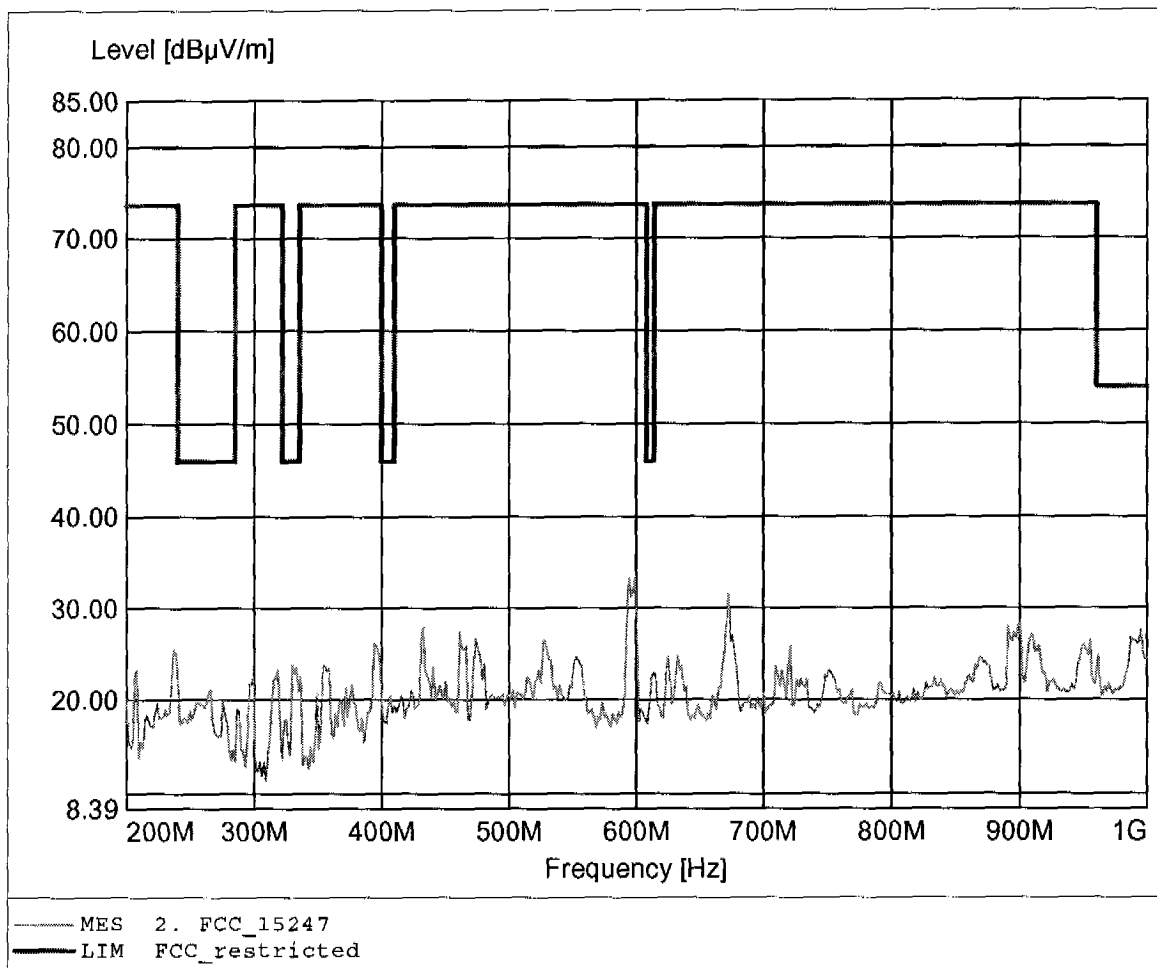
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 594.389MHz, Emax: 37.26dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

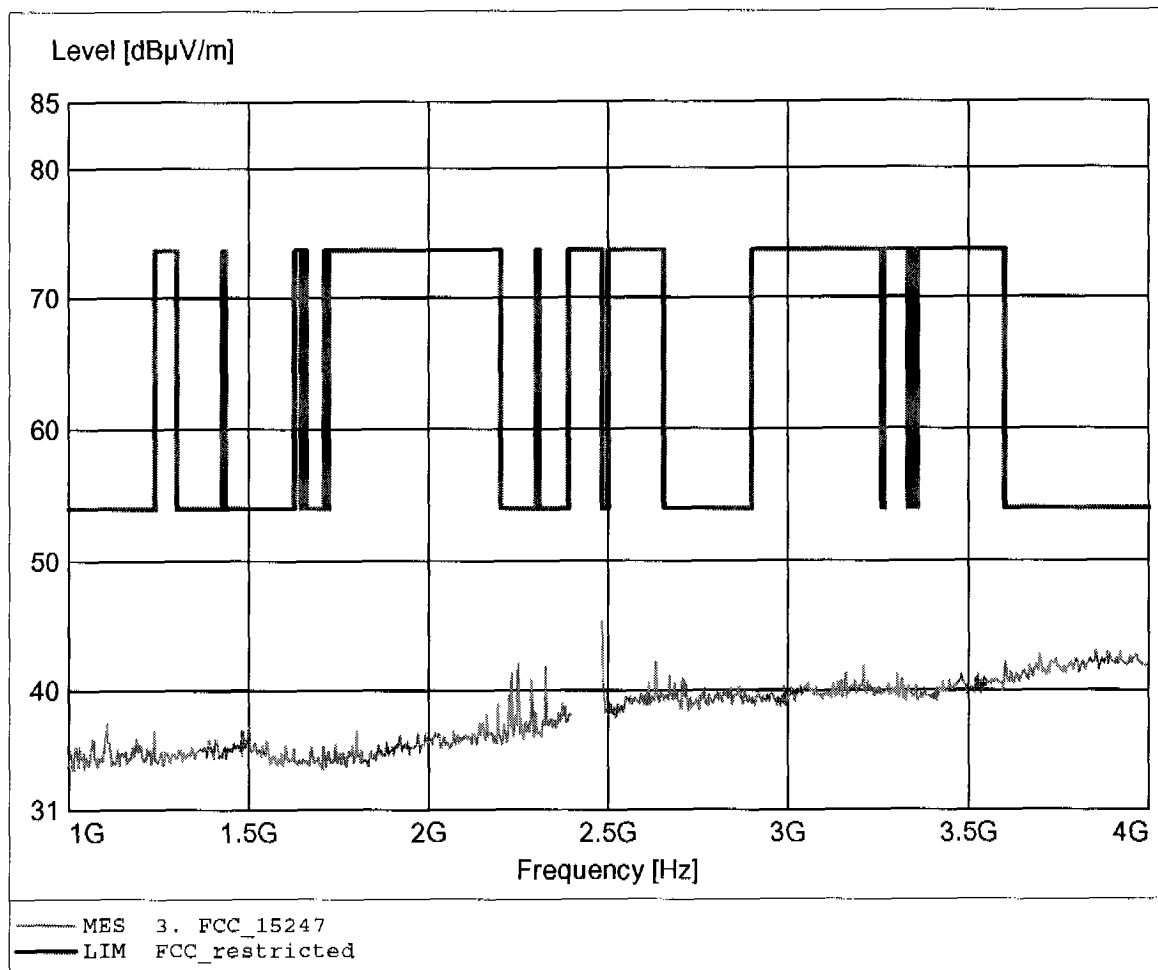
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 599.198MHz, Emax: 33.46dBμV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

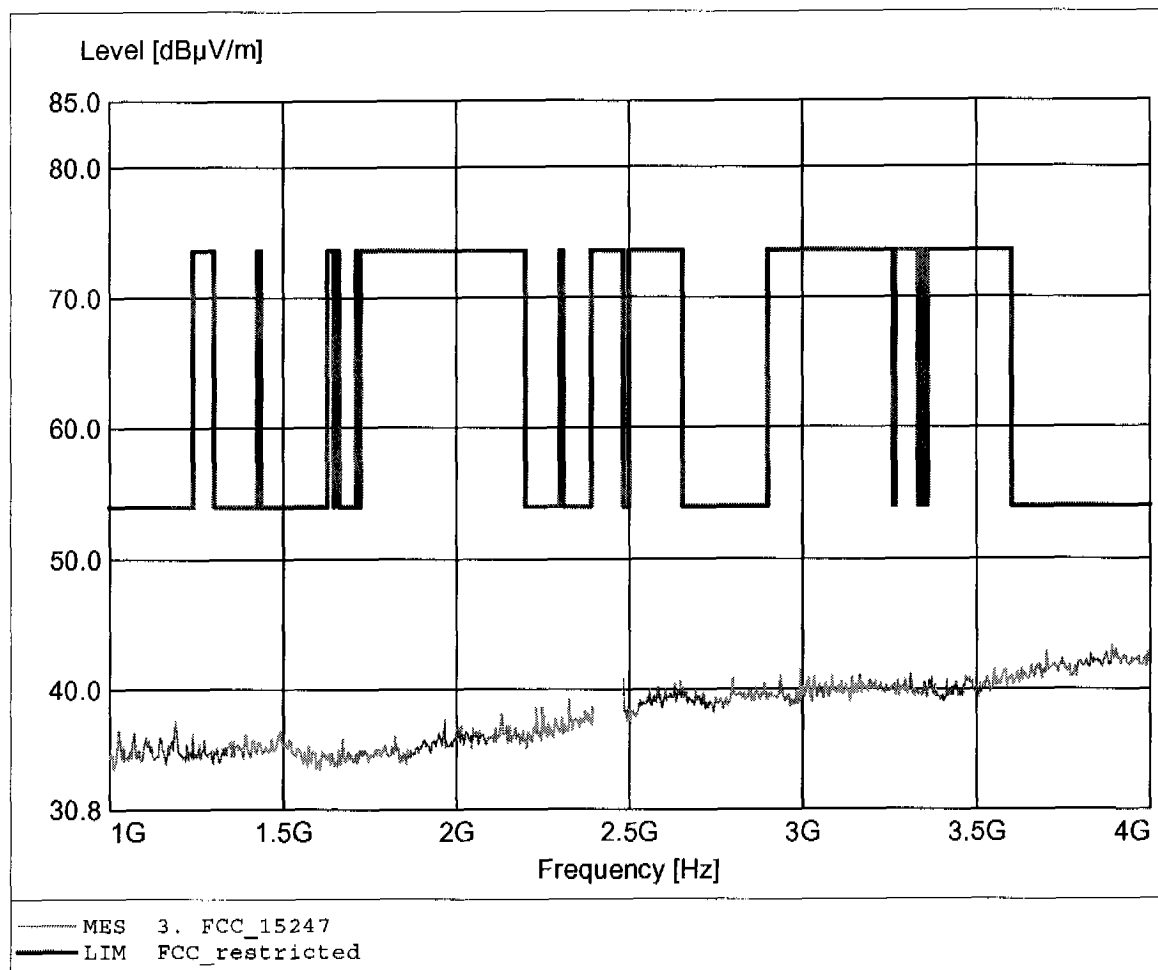
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.484GHz, Emax: 45.39dBuV/m, REW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

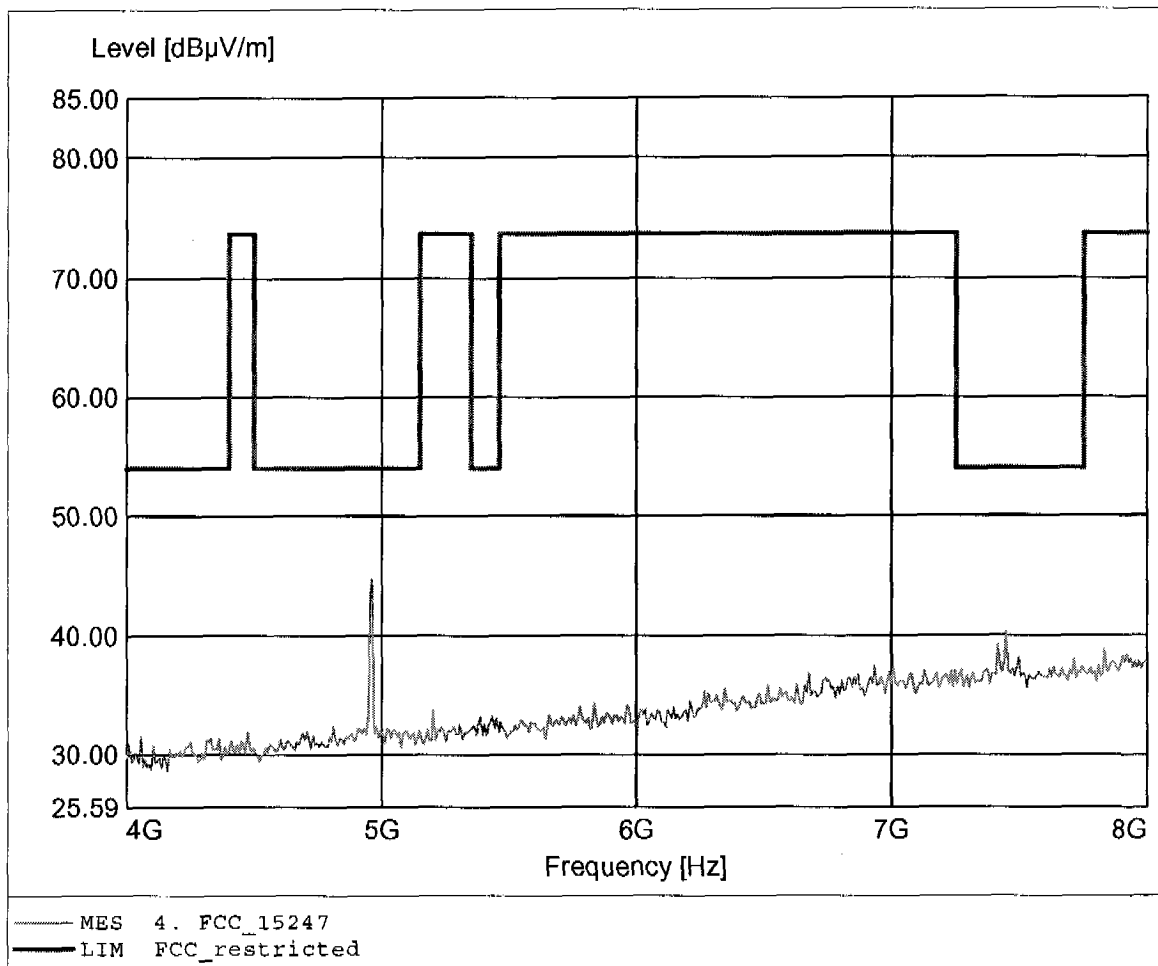
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 3.888GHz, Emax: 43.39dBuV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

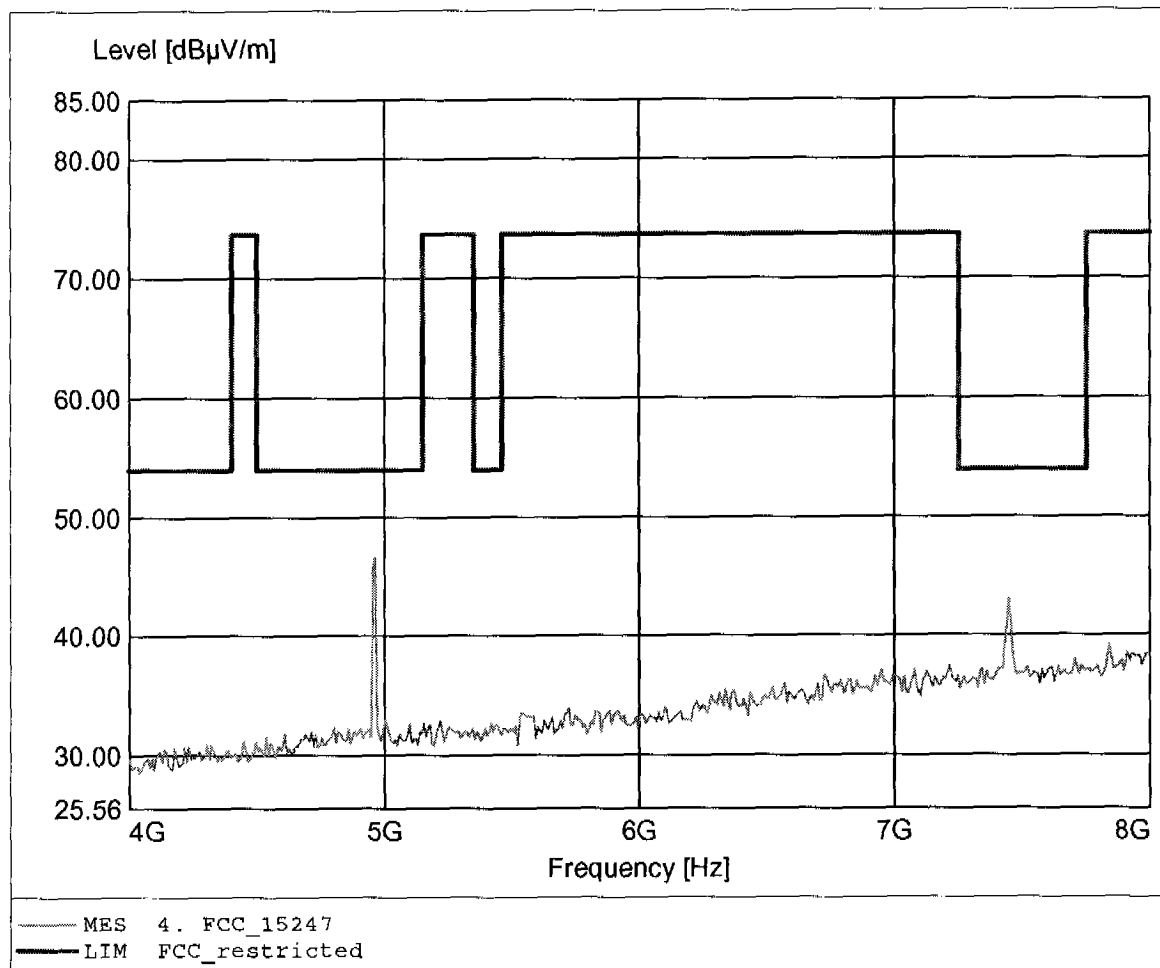
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.962GHz, Emax: 44.70dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

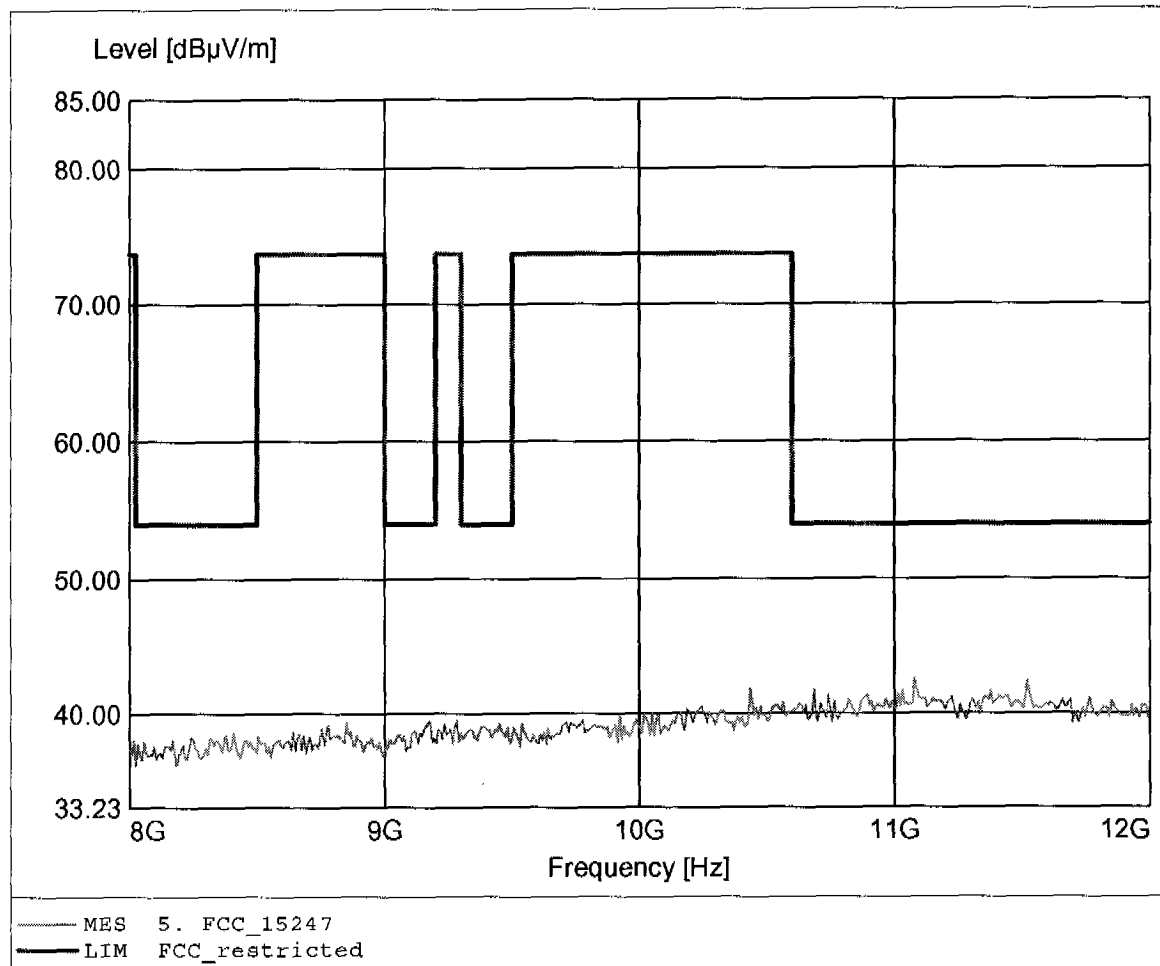
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.962GHz, Emax: 46.62dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

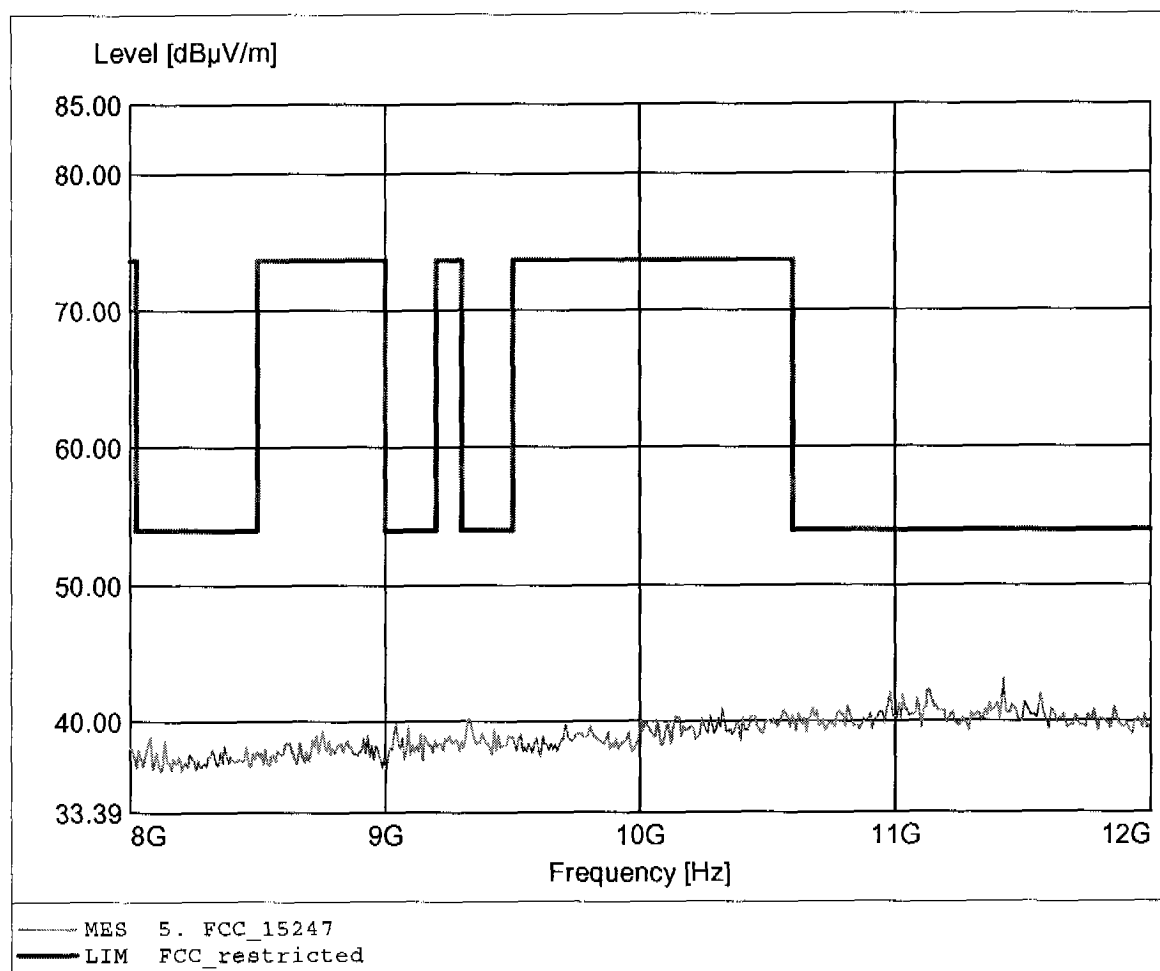
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.078GHz, Emax: 42.54dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

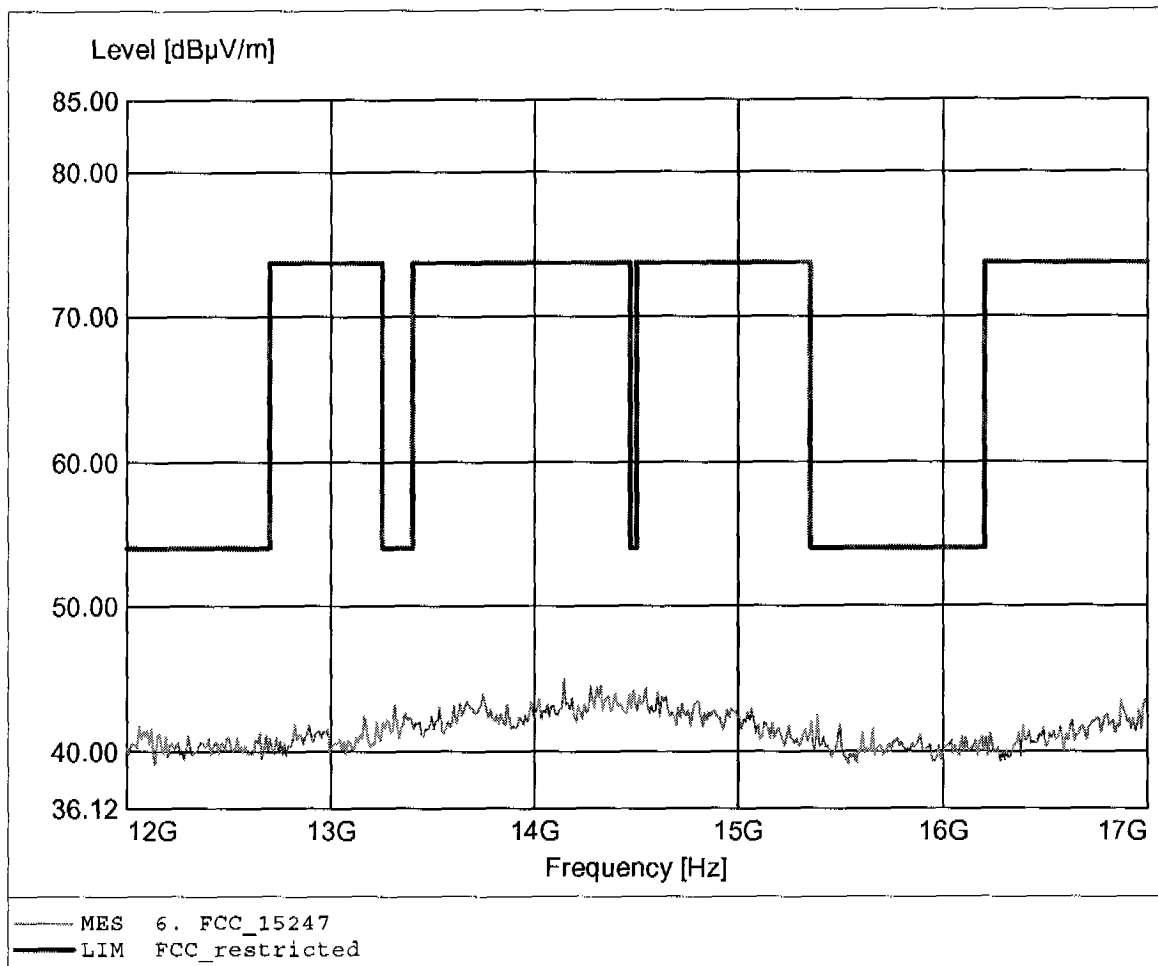
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.423GHz, Emax: 43.15dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

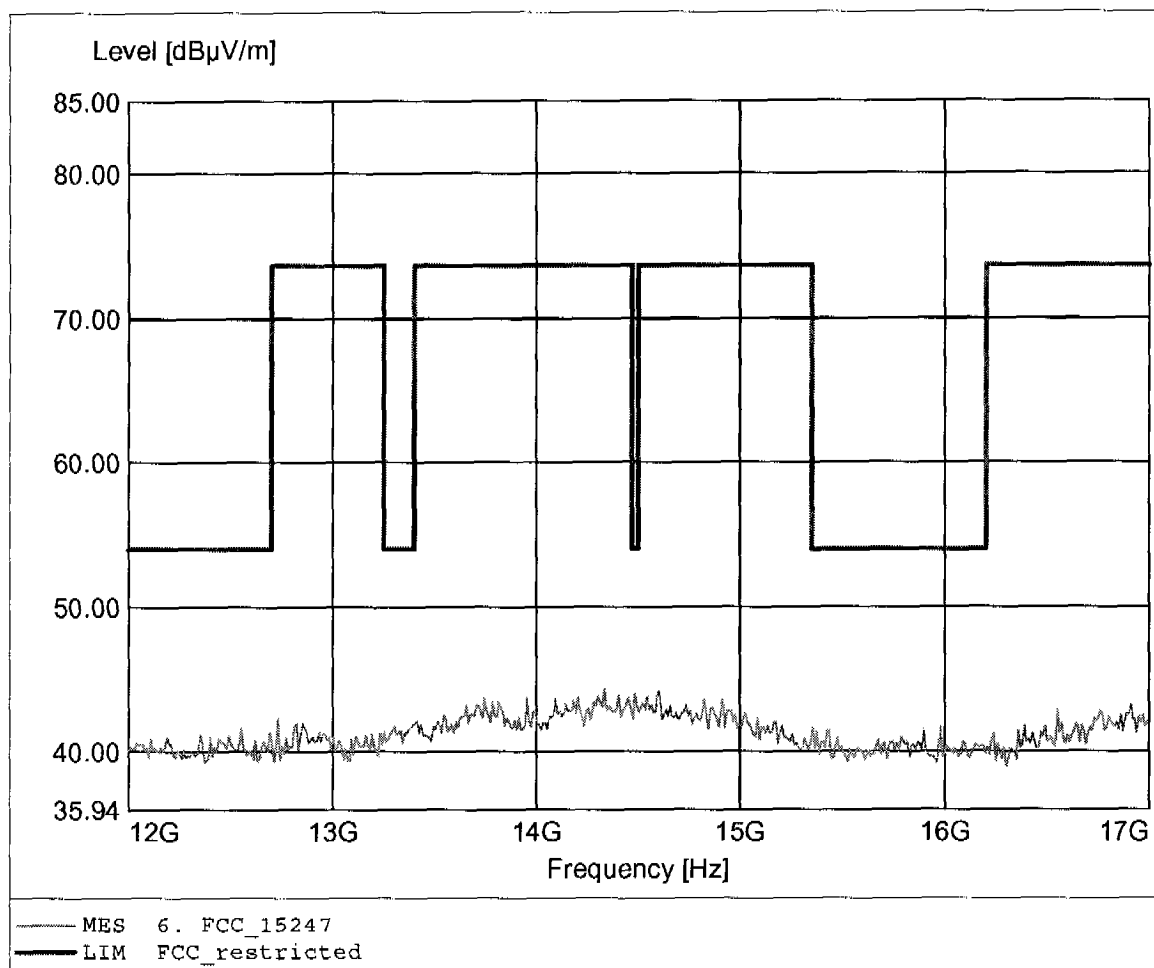
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.144GHz, Emax: 44.94dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

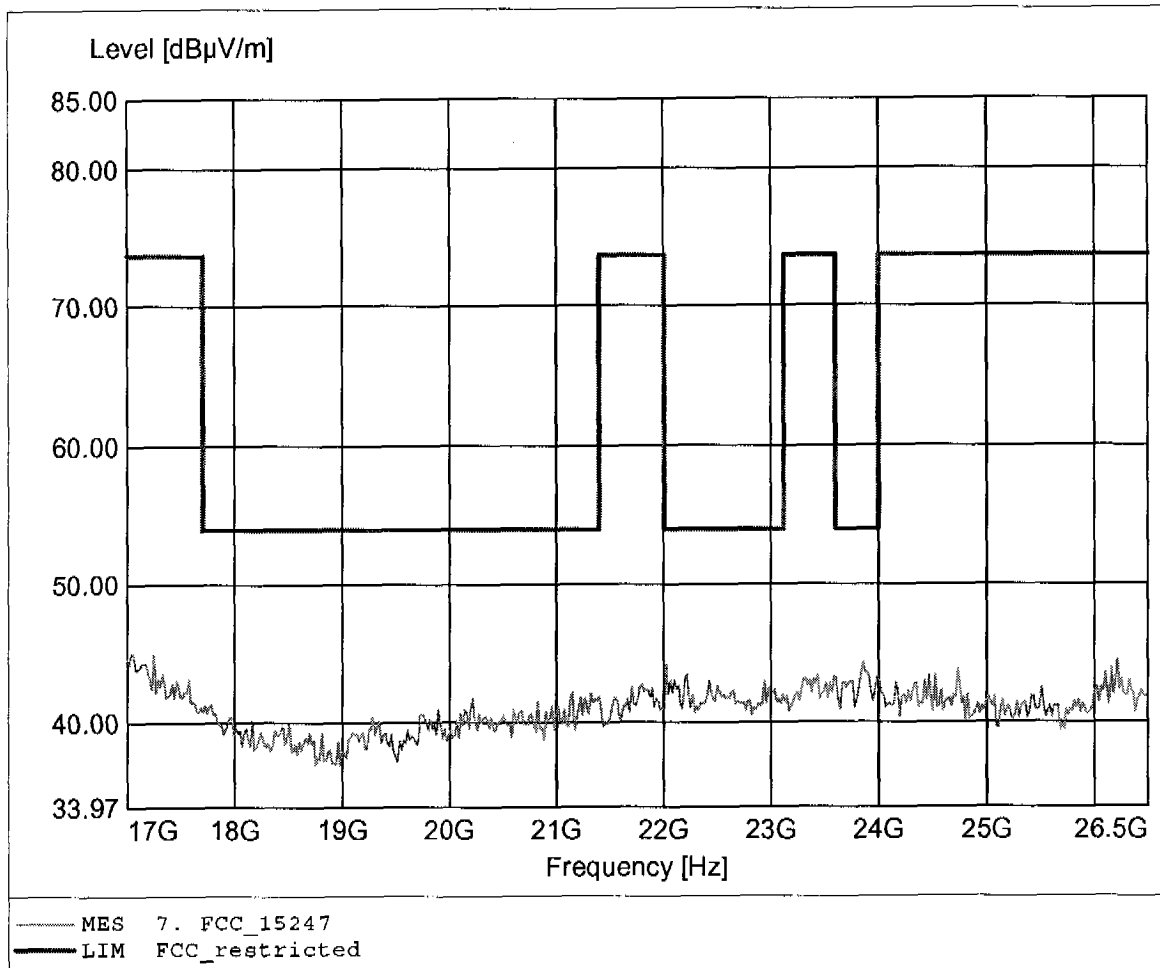
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.335GHz, Emax: 44.33dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

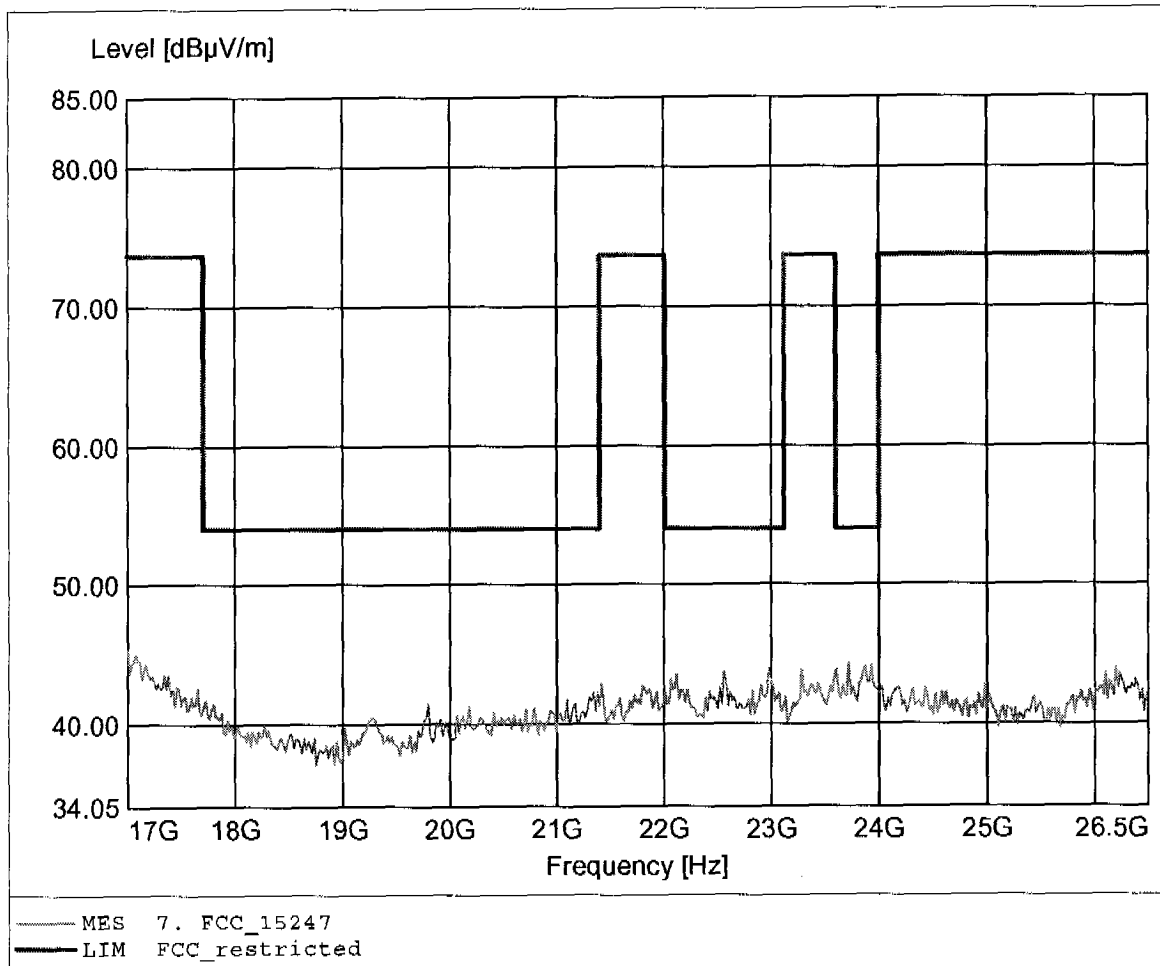
Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 17.057GHz, Emax: 44.97dBμV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

Approval Holder: Horizon Technical Consulting
EUT : Serial Port Wireless Adapter / 2480 MHz / Pmax
Model: Steno Cast X1
Test Site / Operator: ETS / Mr. Hoppe
Temperature/ Voltage: 25°C / Unom: 3.6 V DC (power supply 120 V AC)
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 17.000GHz, Emax: 45.43dBμV/m, RBW: 1MHz



Appendix D

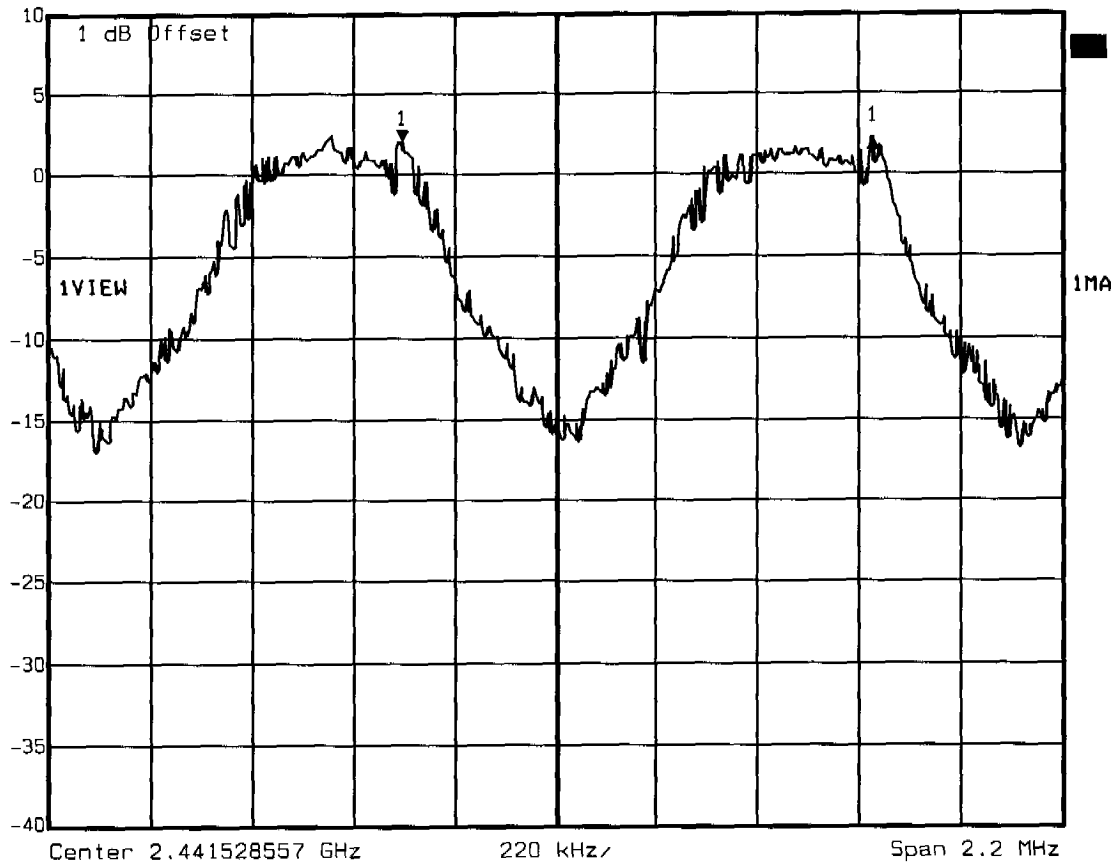
Spurious Emissions conducted - Transmitter operating

Appendix E

Carrier Frequency Separation



Delta 1 [T1] RBW 100 kHz RF Att 40 dB
Ref Lvl 0.05 dB VBW 100 kHz
10 dBm 1.02284569 MHz SWT 5 ms Unit dBm



Title: Carrier Frequency Separation
Comment A: Steno Cast X1
Date: 09.NOV.2004 10:55:02

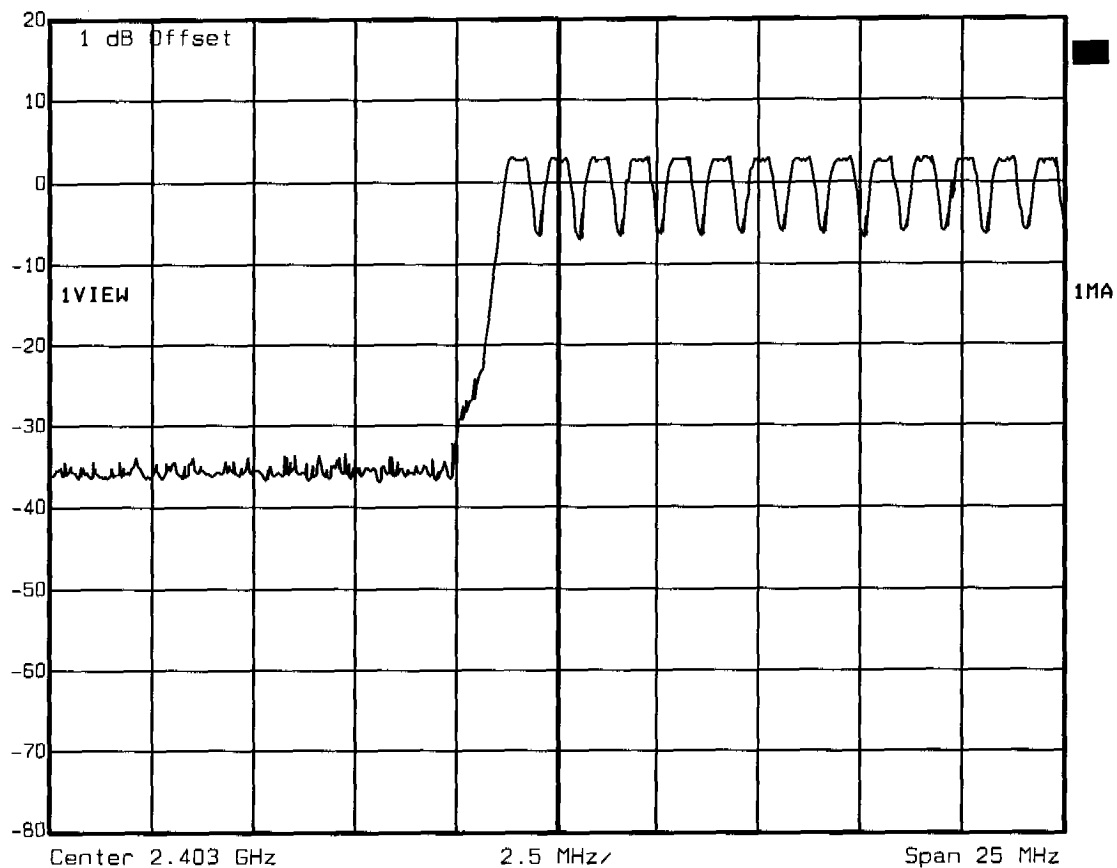
Appendix F

Number of Hopping Frequencies



Ref Lvl
20 dBm

RBW 300 kHz RF Att 40 dB
VBW 300 kHz
SWT 5 ms Unit dBm

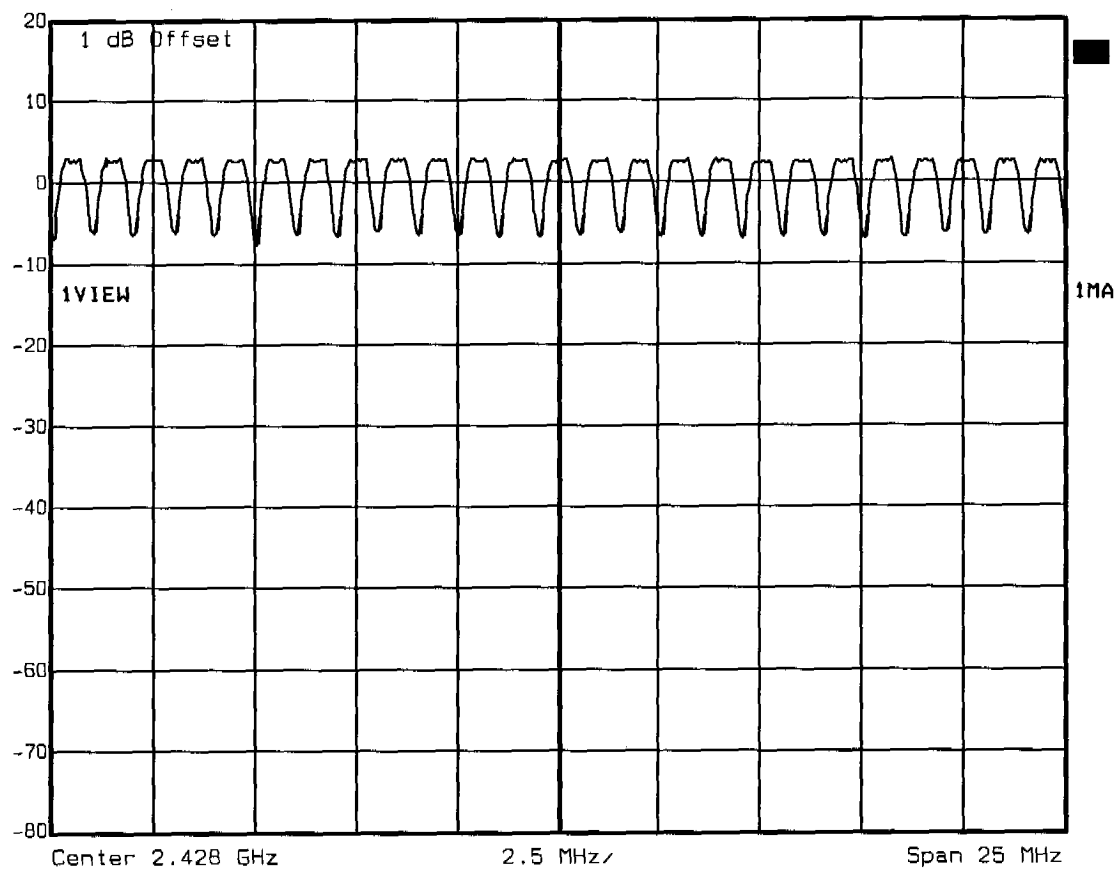


Title: Number of Hopping Frequencies Ch.: 0-13
Comment A: Steno Cast X1
Date: 09.NOV.2004 10:57:41



Ref Lvl
20 dBm

RBW 300 kHz RF Att 40 dB
VBW 300 kHz
SWT 5 ms Unit dBm

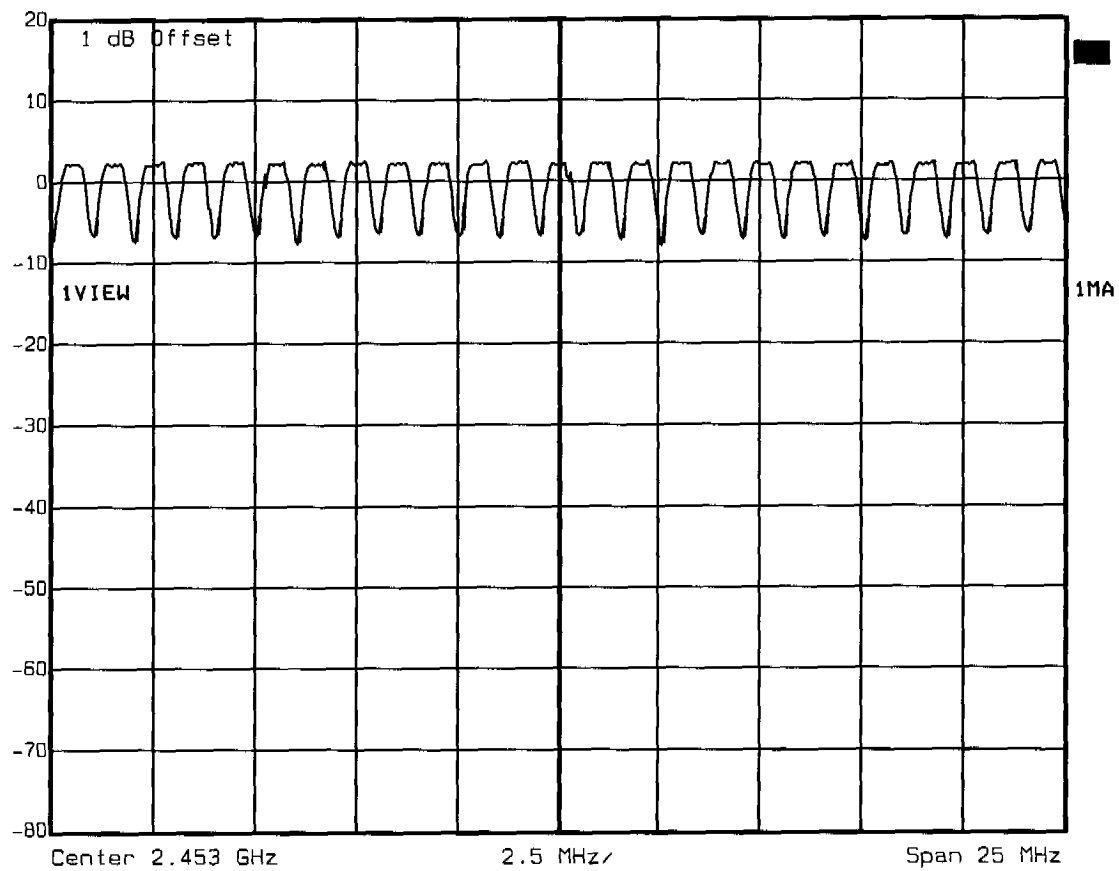


Title: Number of Hopping Frequencies Ch.: 14-3B
Comment A: Steno Cast X1
Date: 09.NOV.2004 10:59:40



Ref Lvl
20 dBm

RBW 300 kHz RF Att 40 dB
VBW 300 kHz
SWT 5 ms Unit dBm

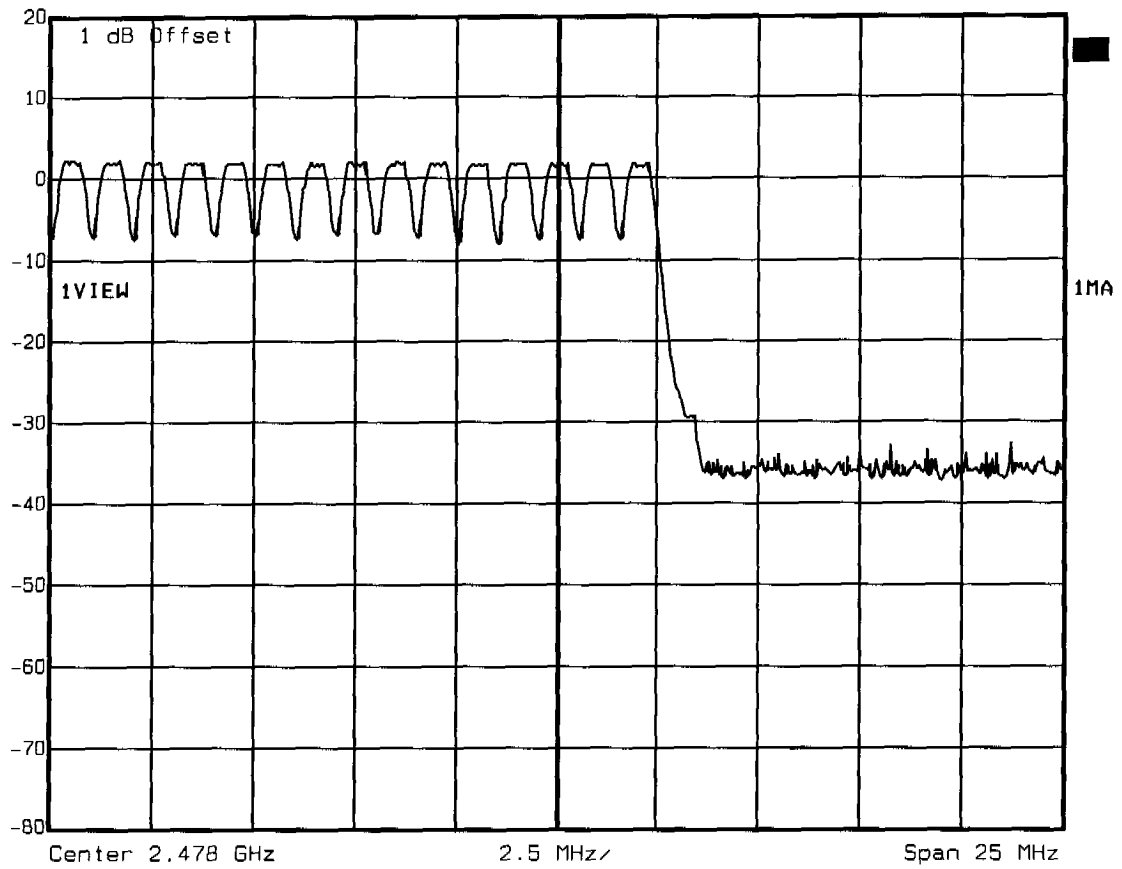


Title: Number of Hopping Frequencies Ch.: 39-63
Comment A: Steno Cast X1
Date: 09.NOV.2004 11:01:26



Ref Lvl
20 dBm

RBW 300 kHz RF Att 40 dB
VBW 300 kHz
SWT 5 ms Unit dBm

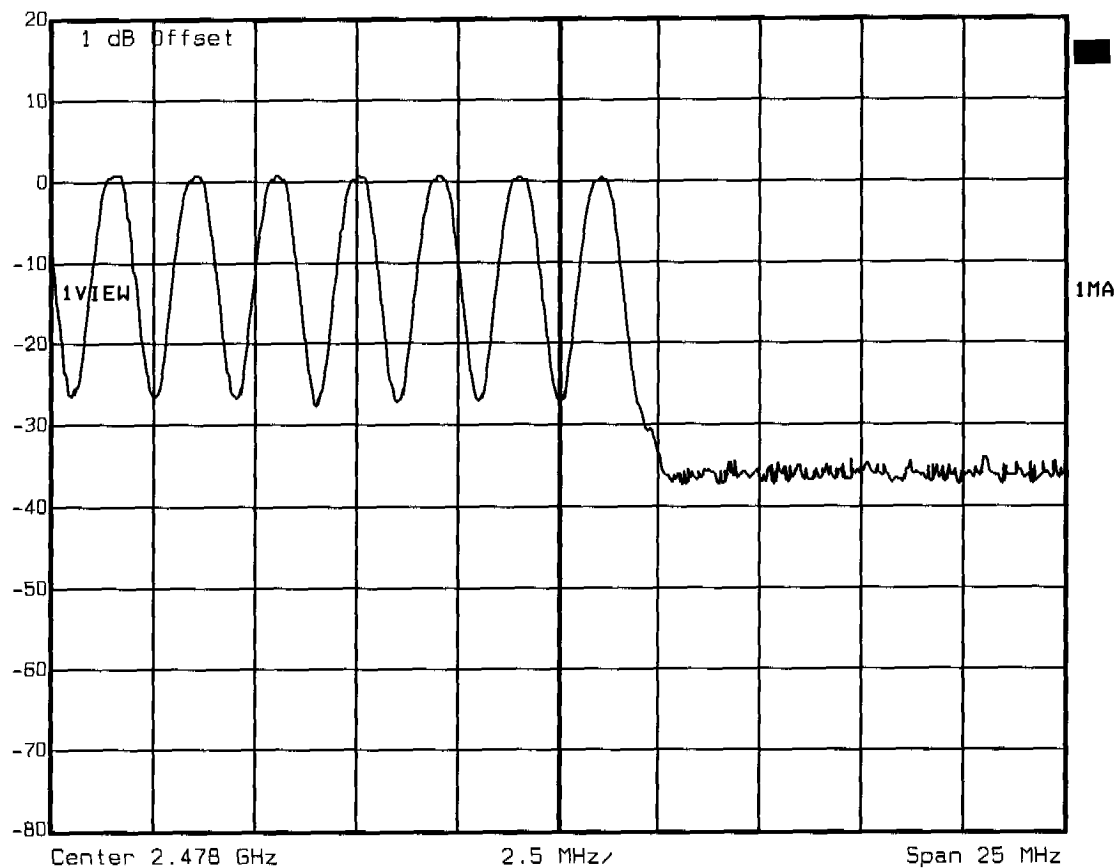


Title: Number of Hopping Frequencies Ch.: 64-78
Comment A: Steno Cast X1
Date: 09.NOV.2004 11:03:16



Ref Lvl
20 dBm

RBW 300 kHz RF Att 40 dB
VBW 300 kHz
SWT 5 ms Unit dBm

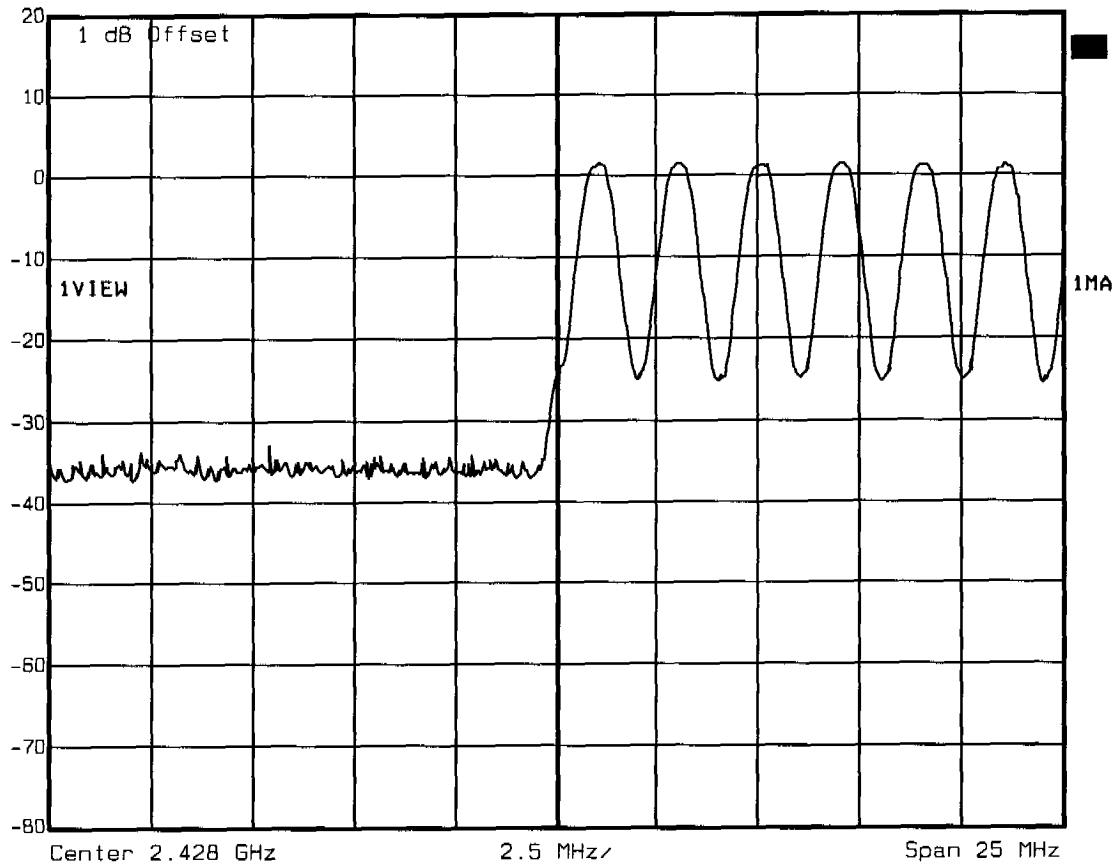


Title: Number of Hopping Frequencies (Master Inquiry Mode)
Comment A: Steno Cast X1
Date: 09.NOV.2004 14:10:48



Ref Lvl
20 dBm

RBW 300 kHz RF Att 40 dB
VBW 300 kHz
SWT 5 ms Unit dBm

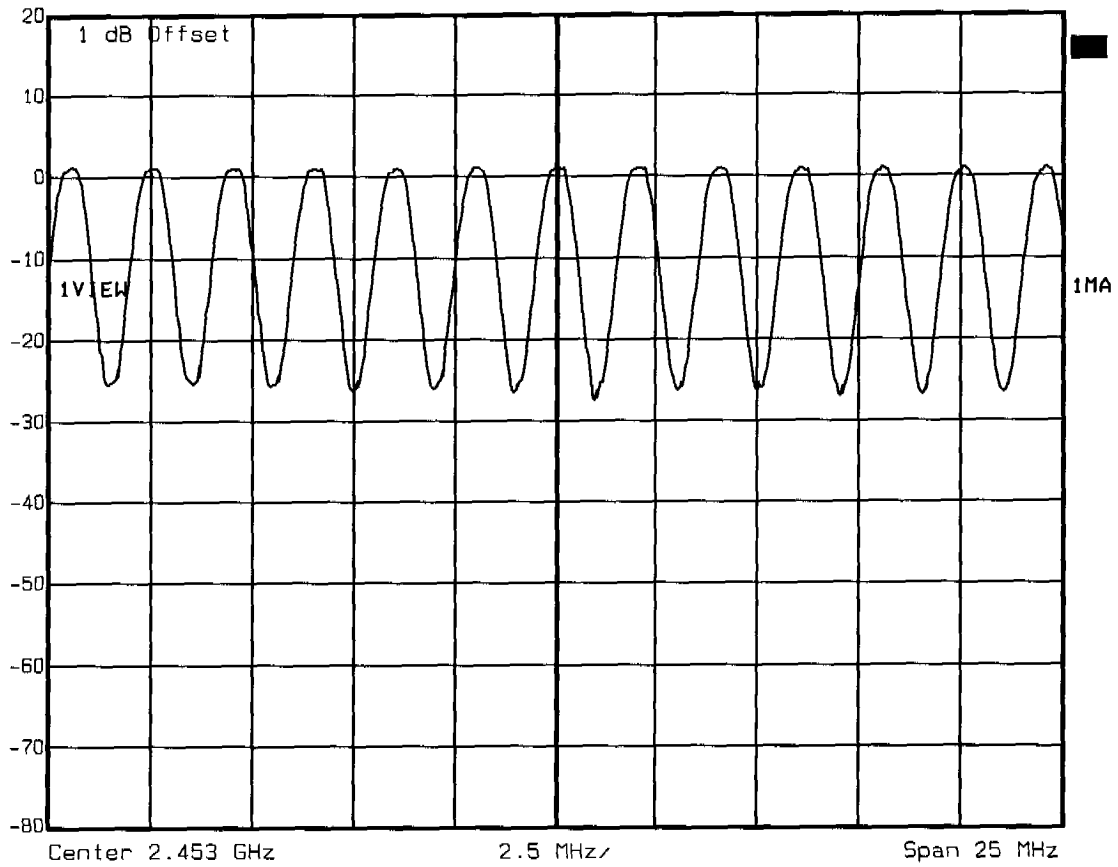


Title: Number of Hopping Frequencies (Master Inquiry Mode)
Comment A: Steno Cast X1
Date: 09.NOV.2004 13:58:57



Ref Lvl
20 dBm

RBW 300 kHz RF Att 40 dB
VBW 300 kHz
SWT 5 ms Unit dBm



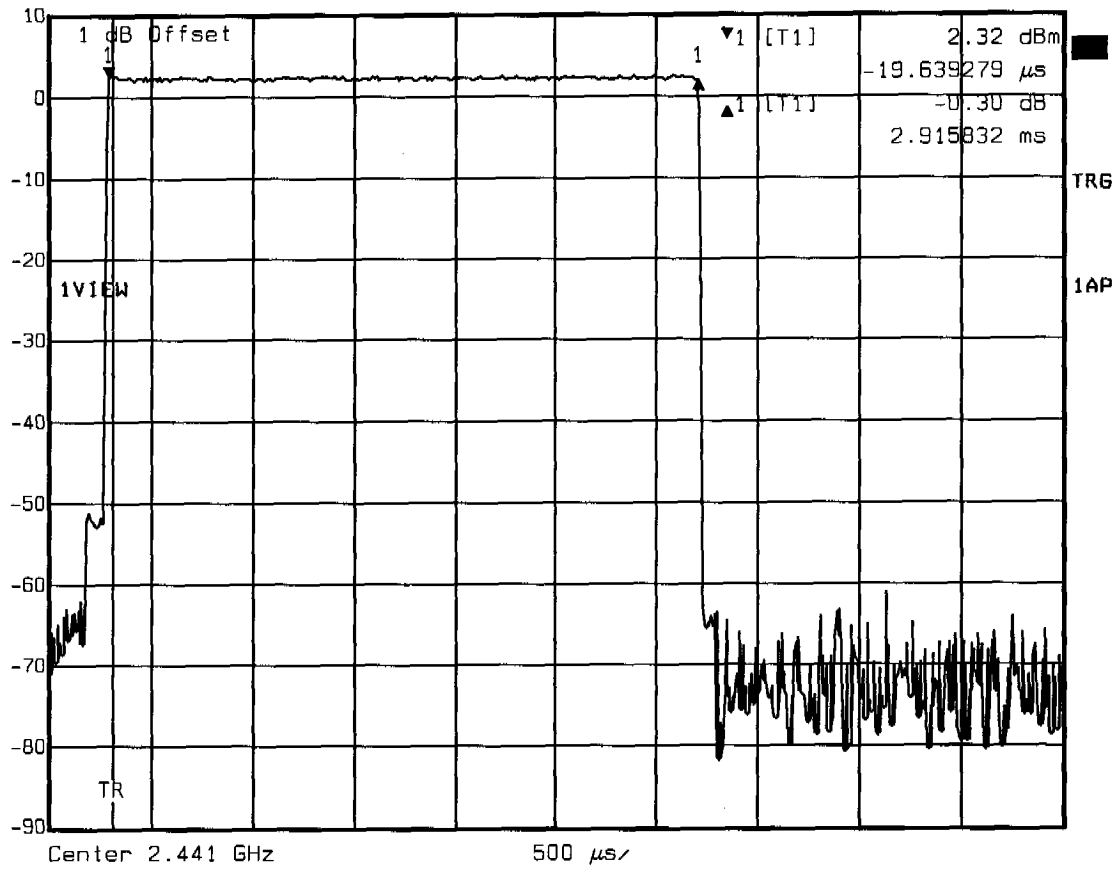
Title: Number of Hopping Frequencies (Master Inquiry Mode)
Comment A: Steno Cast X1
Date: 09.NOV.2004 14:13:57

Appendix G

Time of Occupancy (Dwell Time)



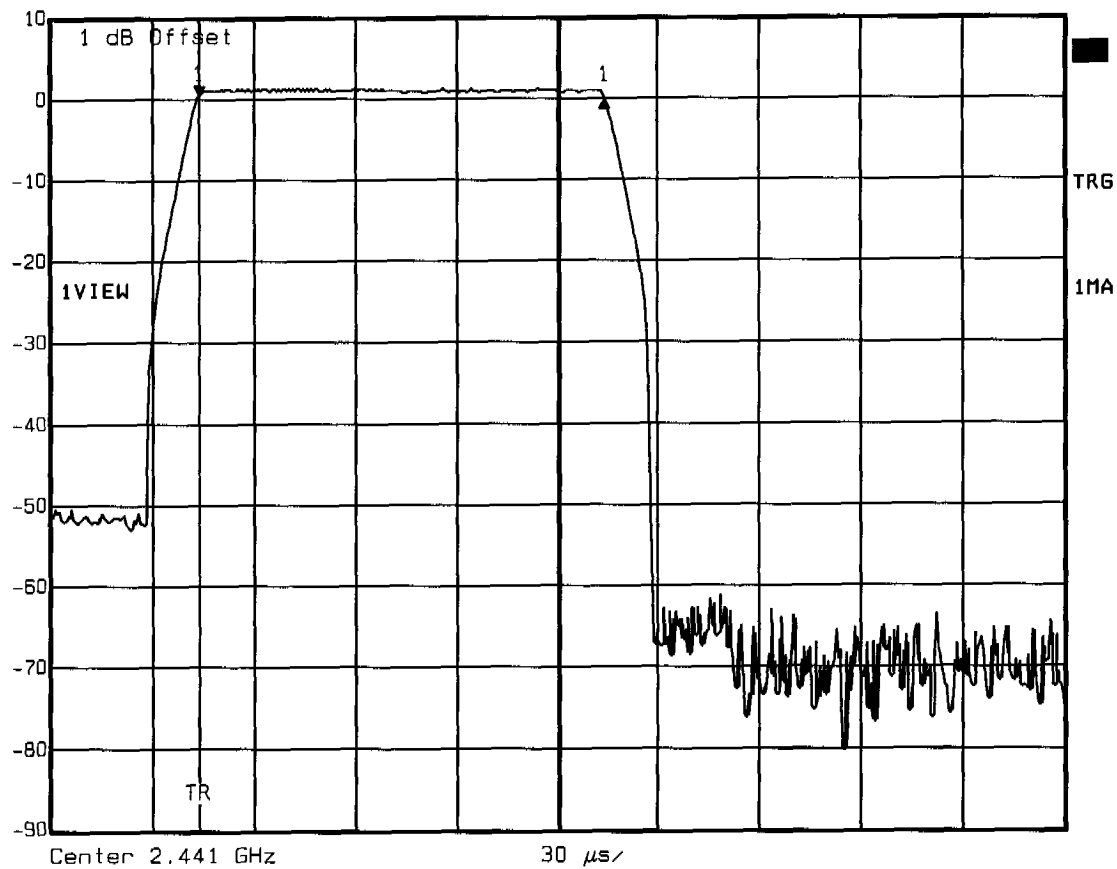
Delta 1 [T1] RBW 1 MHz RF Att 20 dB
Ref Lvl -0.30 dB VBW 1 MHz
10 dBm 2.915832 ms SWT 5 ms Unit dBm



Title: Time of occupancy (Hopping DH5) 64 events*2.916ms=186.62ms
Comment A: Steno Cast X1
Date: 09.NOV.2004 11:38:12



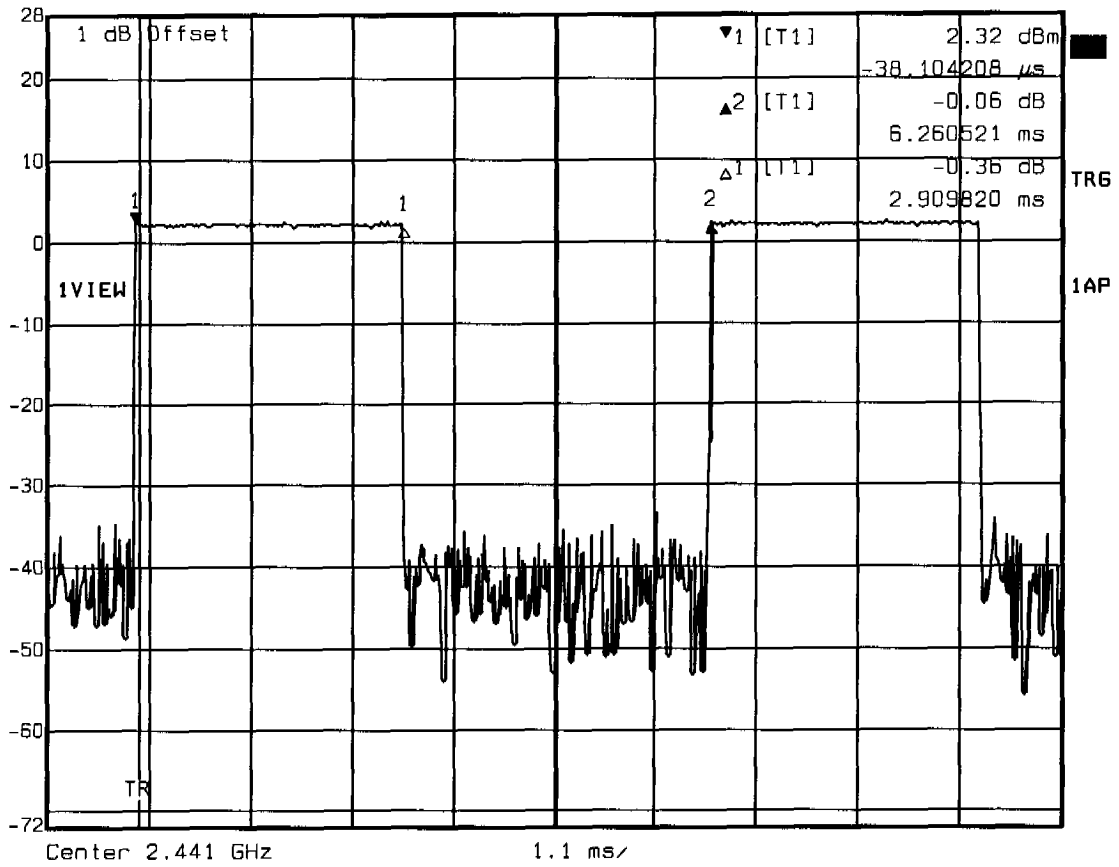
Delta 1 [T1] RBW 1 MHz RF Att 20 dB
Ref Lvl -0.24 dB VBW 1 MHz
10 dBm 120.440882 μ s SWT 300 μ s Unit dBm



Title: Time of occupancy (Inquiry) 177 events*0.120441ms=21.318ms
Comment A: Steno Cast X1
Date: 09.NOV.2004 15:08:55



Delta 2 [T1] RBW 1 MHz RF Att 50 dB
Ref Lvl -0.06 dB VBW 1 MHz
28 dBm 6.260521 ms SWT 11 ms Unit dBm



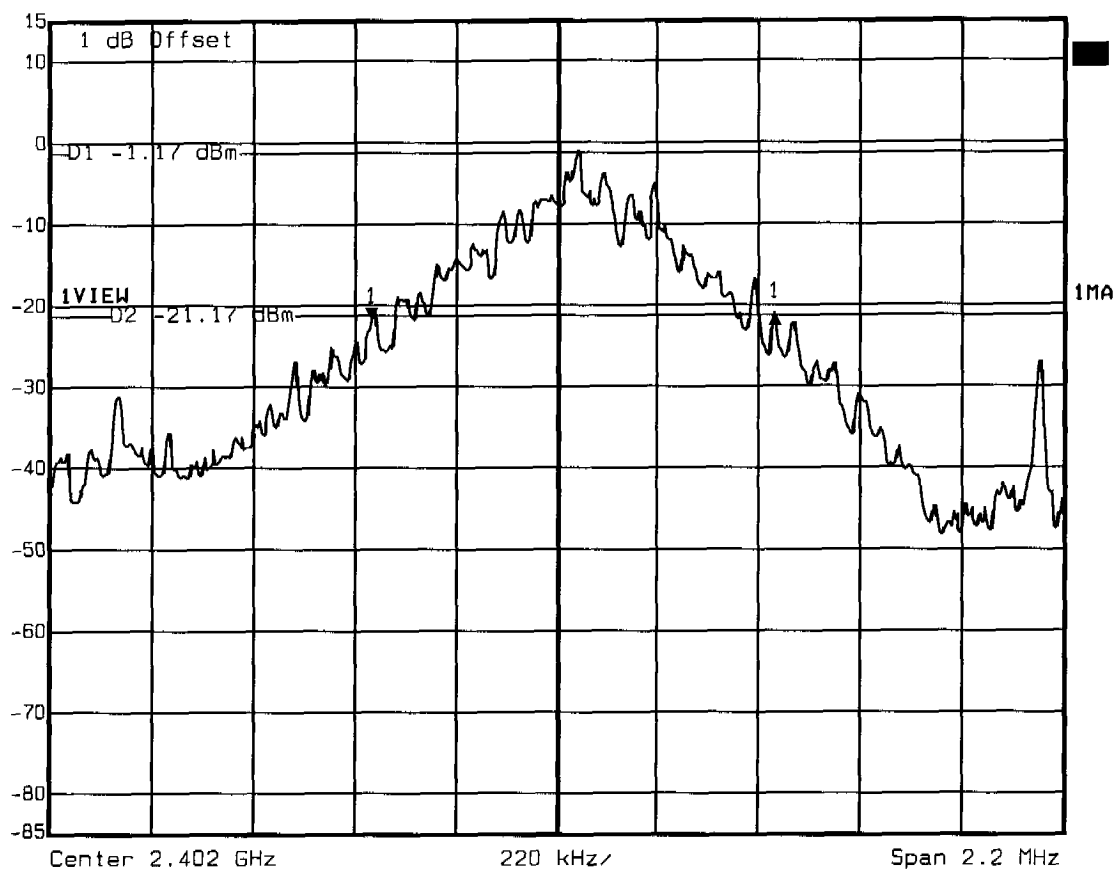
Title: Duty Cycle
Comment A: Steno Cast X1
Date: 09.NOV.2004 10:30:10

Appendix H

20dB Bandwidth



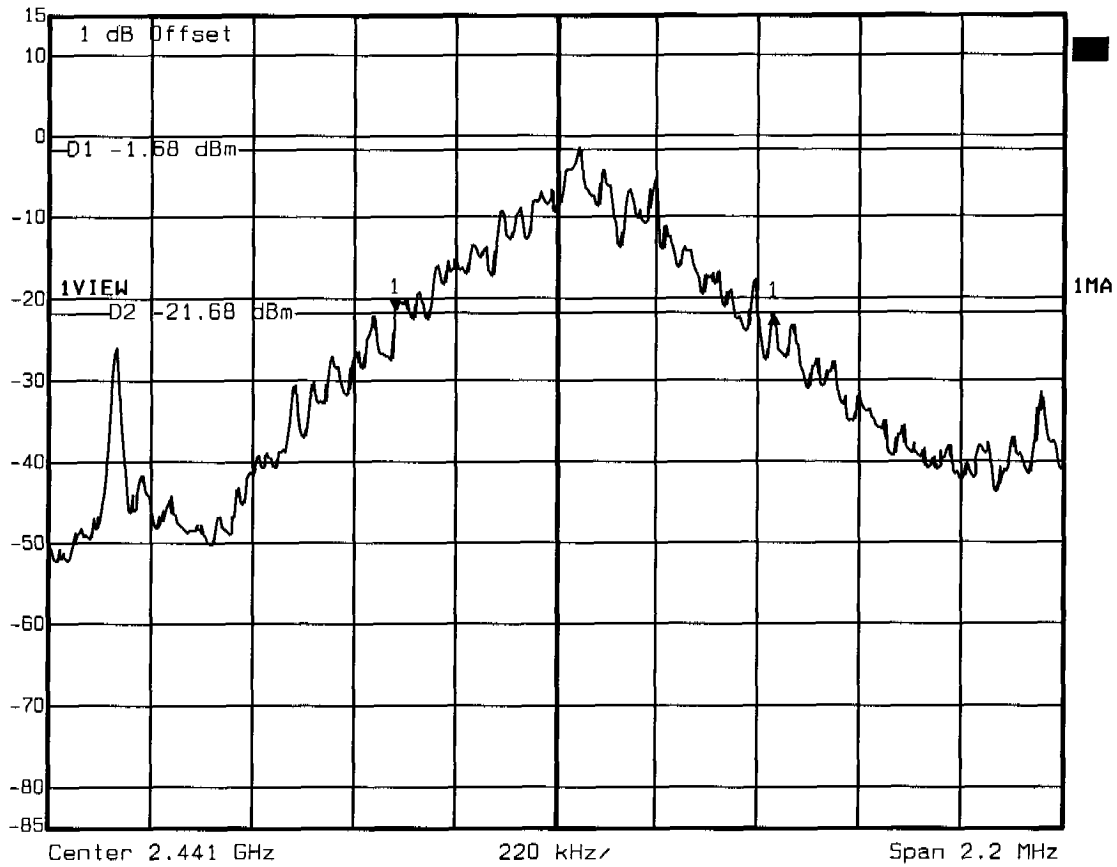
Delta 1 [T1] RBW 10 kHz RF Att 40 dB
Ref Lvl 0.40 dB VBW 10 kHz
15 dBm 877.35470942 kHz SWT 56 ms Unit dBm



Title: -20 dB Bandwidth Ch.: 0
Comment A: Steno Cast X1
Date: 09.NOV.2004 10:21:14



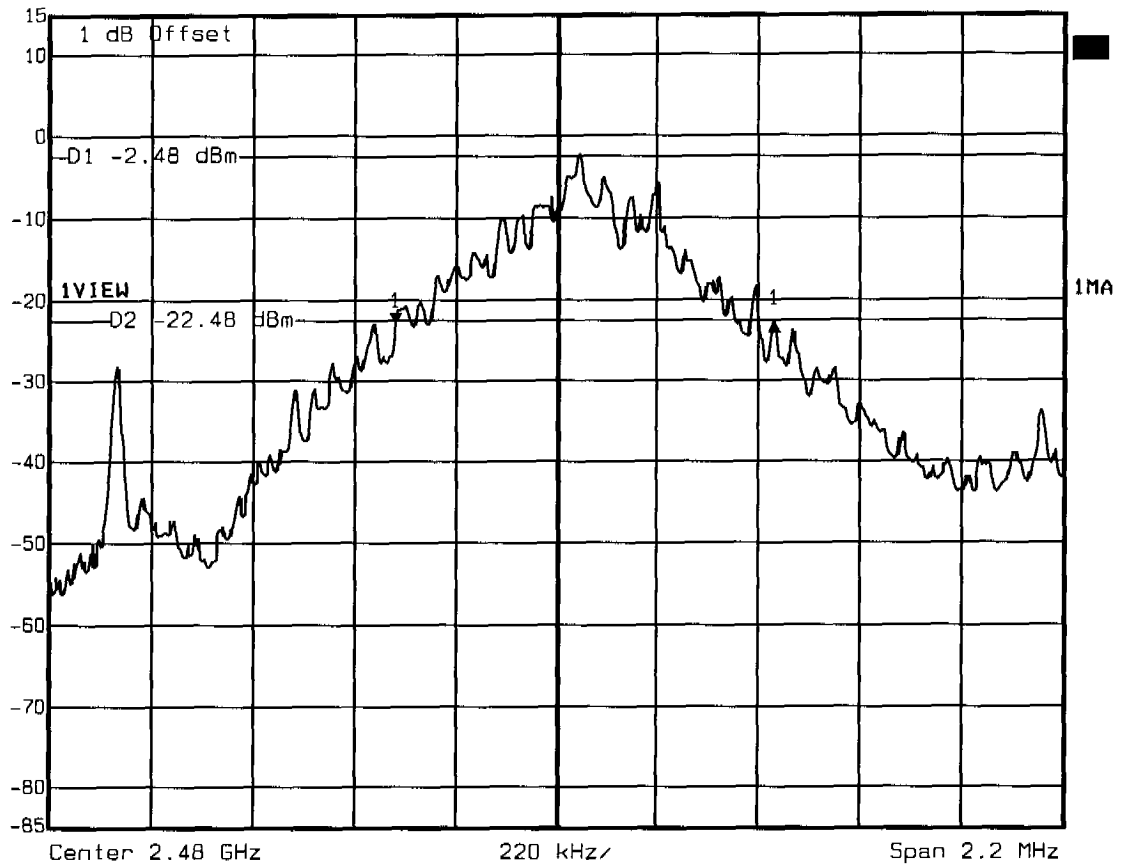
Delta 1 [T1] RBW 10 kHz RF Att 40 dB
Ref Lvl -0.50 dB VBW 10 kHz
15 dBm 824.44889780 kHz SWT 56 ms Unit dBm



Title: -20 dB Bandwidth Ch.: 39
Comment A: Steno Cast X1
Date: 09.NOV.2004 10:19:56



Delta 1 [T1] RBW 10 kHz RF Att 40 dB
Ref Lvl 0.13 dB VBW 10 kHz
15 dBm 824.44889780 kHz SWT 56 ms Unit dBm



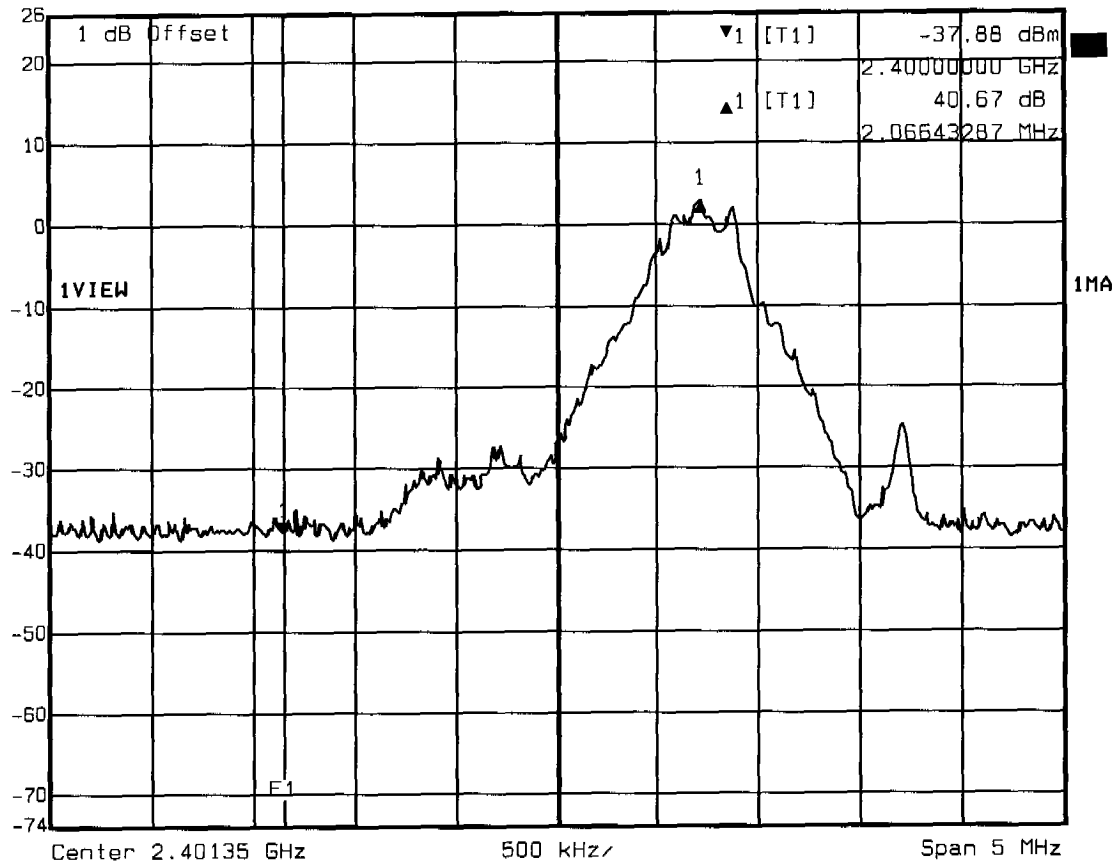
Title: -20 dB Bandwidth Ch.: 78
Comment A: Steno Cast X1
Date: 09.NOV.2004 10:18:16

Appendix I

Band-edge Compliance of RF Emissions



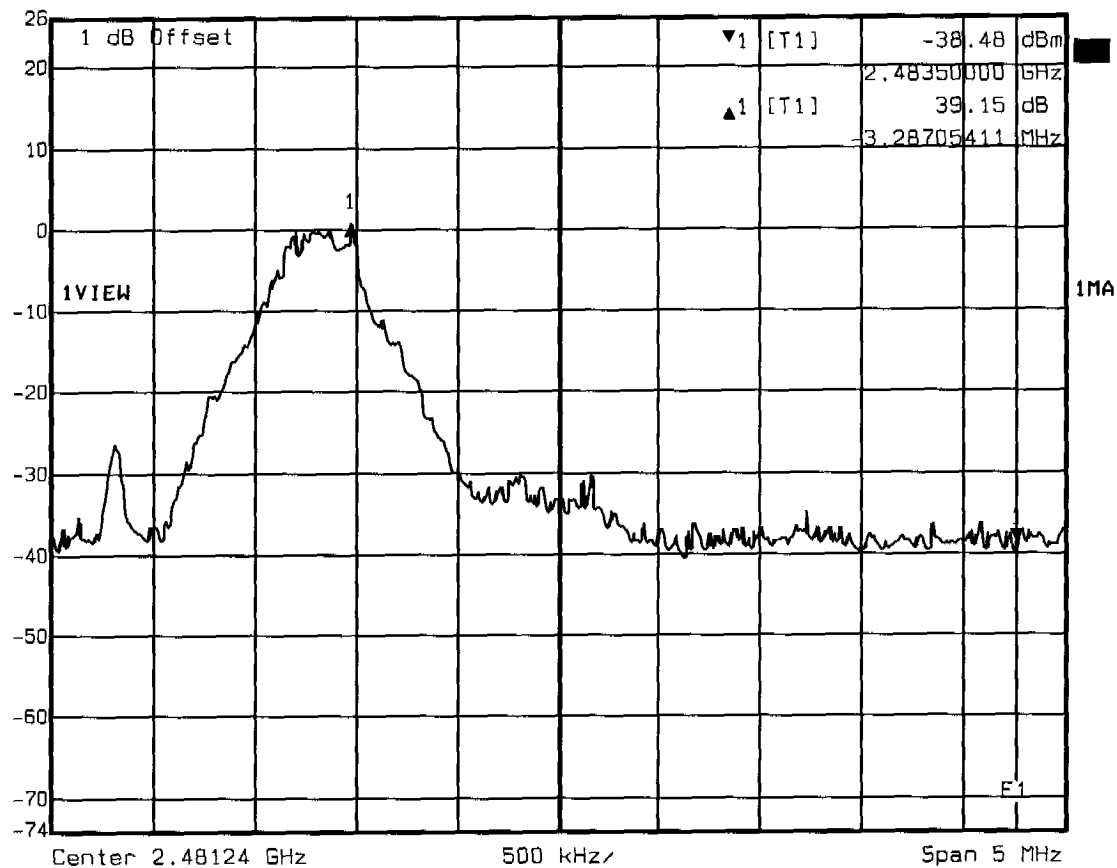
Delta 1 [T1] RBW 50 kHz RF Att 50 dB
Ref Lvl 40.67 dB VBW 50 kHz
26 dBm 2.06643287 MHz SWT 5 ms Unit dBm



Title: Band-edge Compliance (conducted, single frequency)
Comment A: Steno Cast X1
Date: 09.NOV.2004 10:33:25



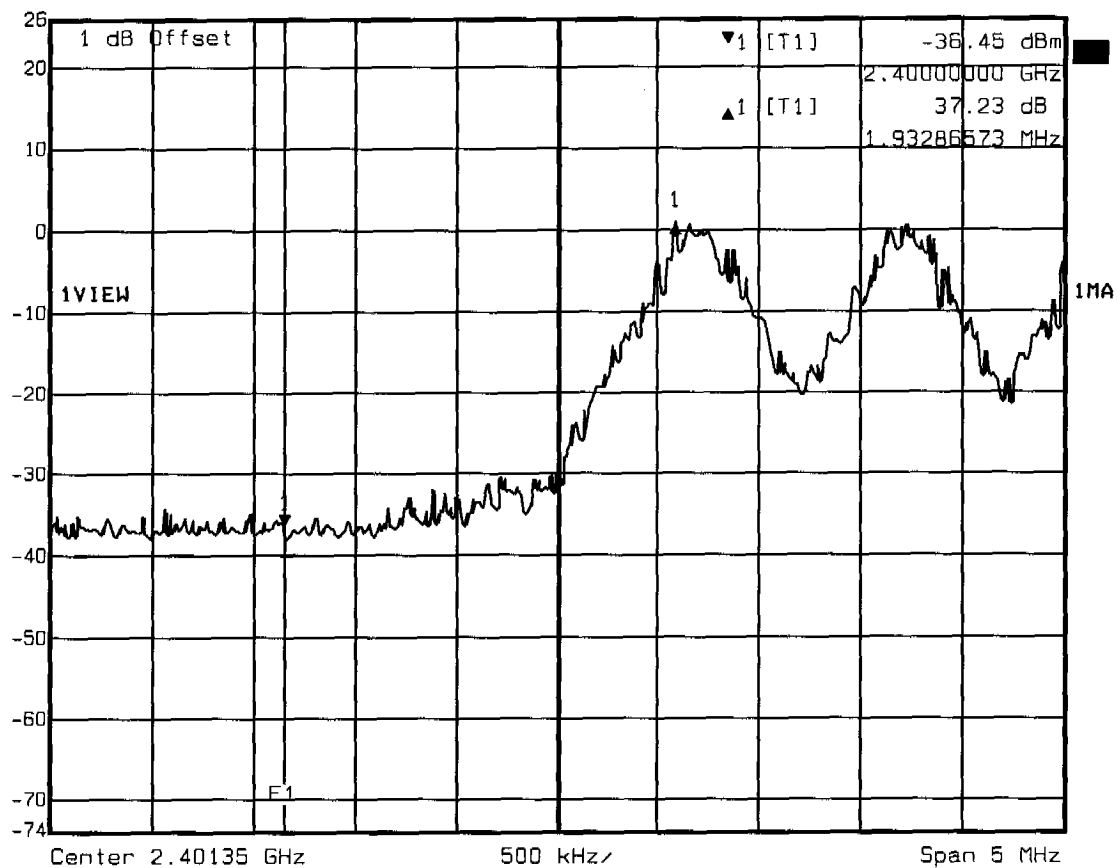
Delta 1 [T1] RBW 50 kHz RF Att 50 dB
Ref Lvl 39.15 dB VBW 50 kHz
26 dBm -3.28705411 MHz SWT 5 ms Unit dBm



Title: Band-edge Compliance (conducted, single frequency)
Comment A: Steno Cast X1
Date: 09.NOV.2004 10:34:43



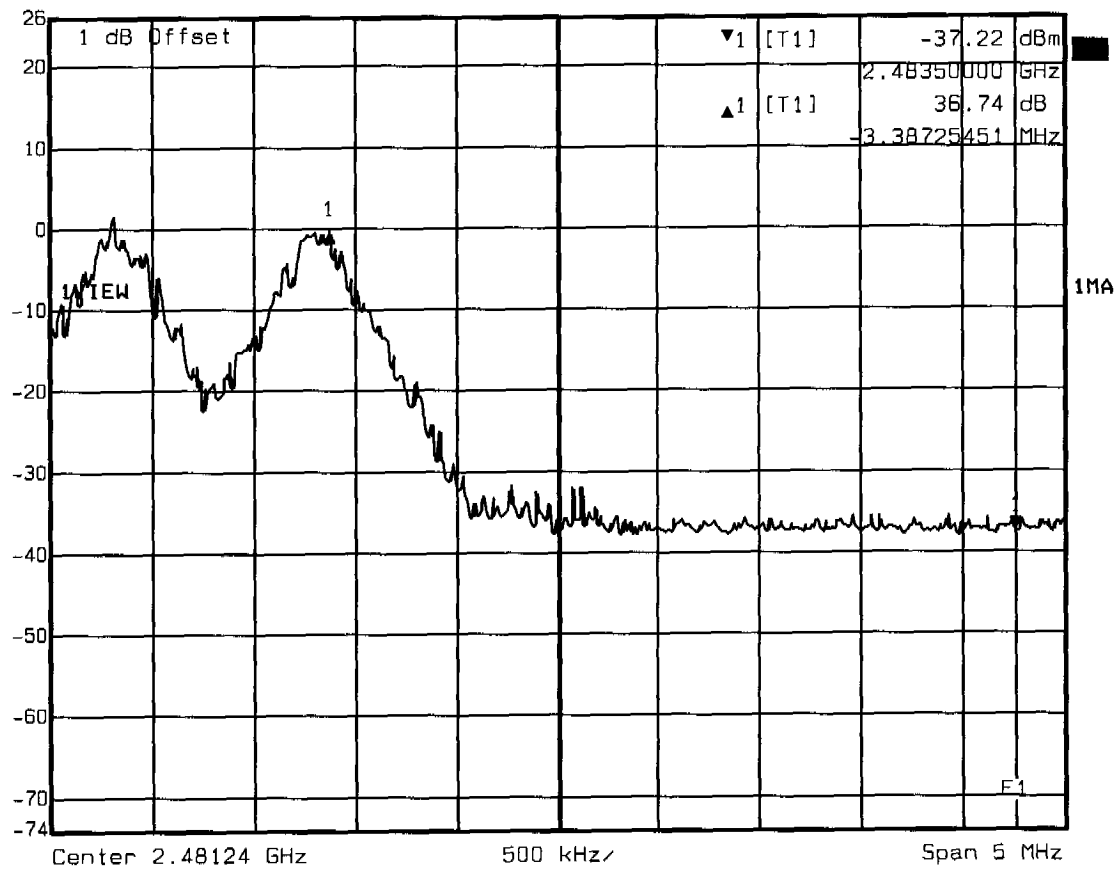
Delta 1 [T1] RBW 50 kHz RF Att 50 dB
Ref Lvl 37.23 dB VBW 50 kHz
26 dBm 1.93286573 MHz SWT 5 ms Unit dBm



Title: Band-edge Compliance (conducted, hopping mode)
Comment A: Steno Cast X1
Date: 09.NOV.2004 10:42:00



Delta 1 [T1] RBW 50 kHz RF Att 50 dB
Ref Lvl 36.74 dB VBW 50 kHz
26 dBm -3.38725451 MHz SWT 5 ms Unit dBm



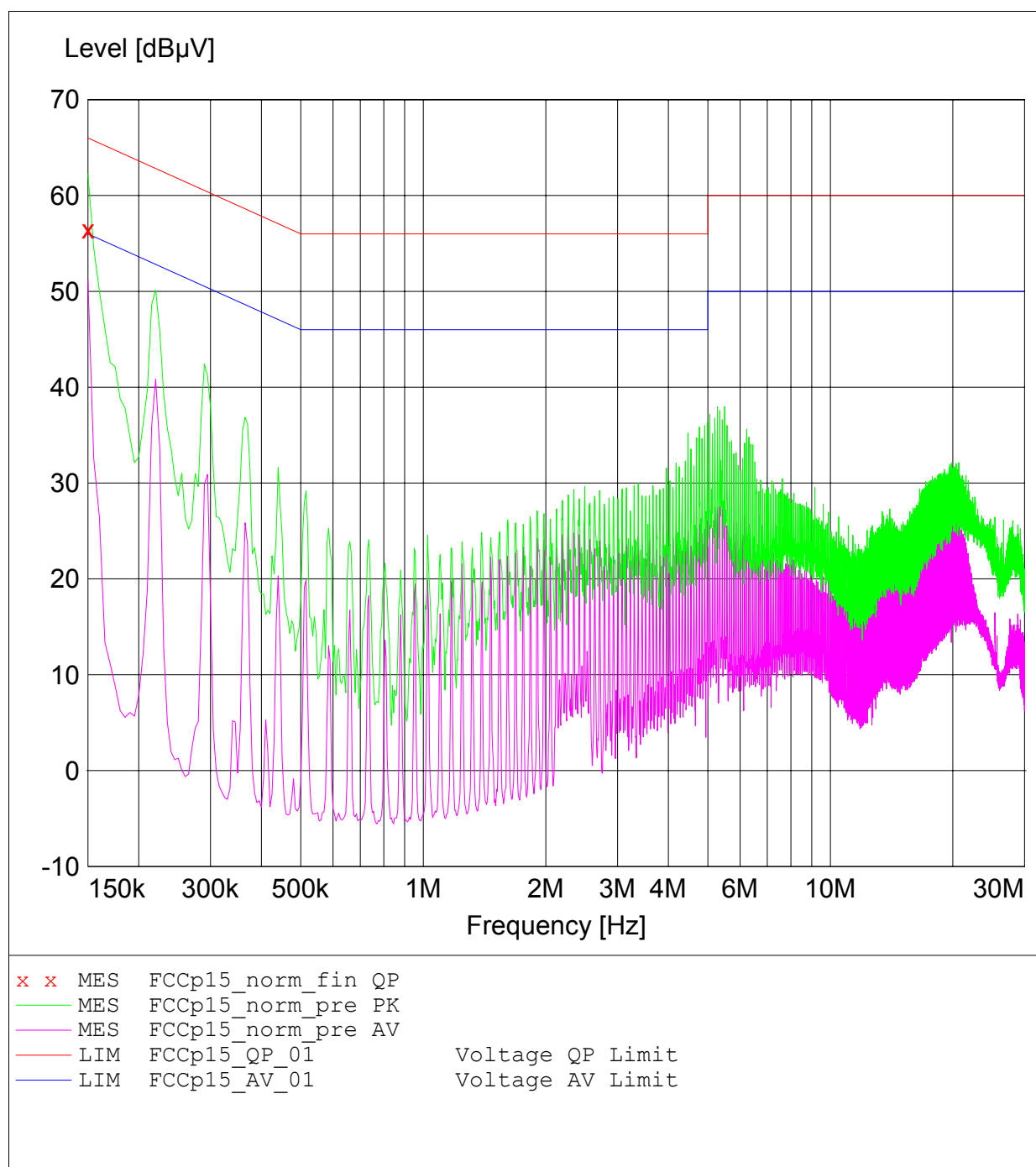
Title: Band-edge Compliance (conducted, hopping mode)
Comment A: Steno Cast X1
Date: 09.NOV.2004 10:38:51

Appendix J

Conducted Measurement at (AC) Power Line

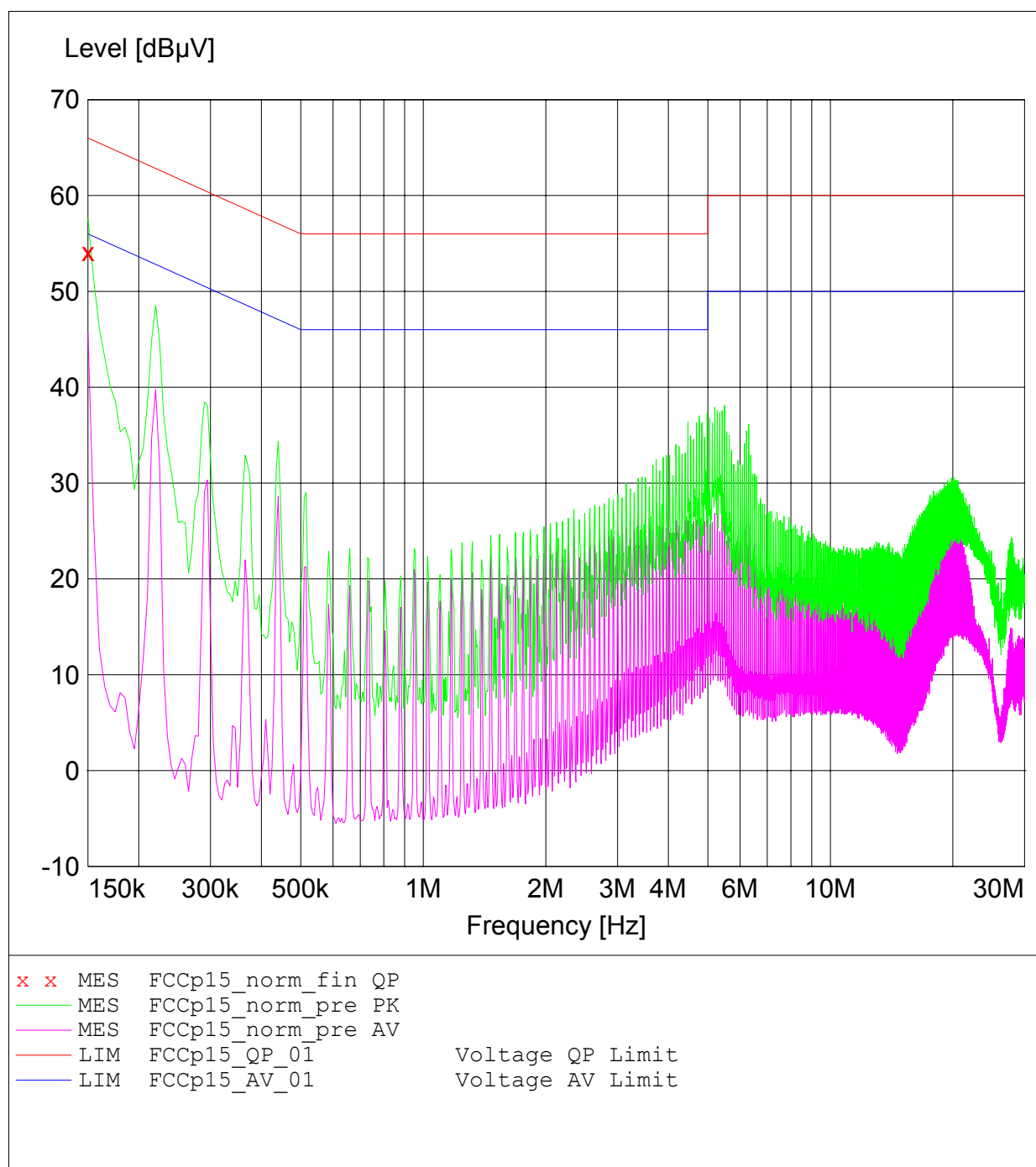
EMI voltage test in the ac-mains according to FCC part 15

EUT: SERIAL PORT WIRELESS ADAPTOR
Manufacturer: HORIZON TECHNICAL CONSULTING
Operating Condition: Unom: 120 V AC , Tnom: 23°C
Test Site: ETS
Operator: Mr. Marquardt
Test Specification: V-Network: ESH2-Z5 (N)
Comment: model: STENO CAST X1
measure on power supply: Laptop: "Panasonic CF - 27"



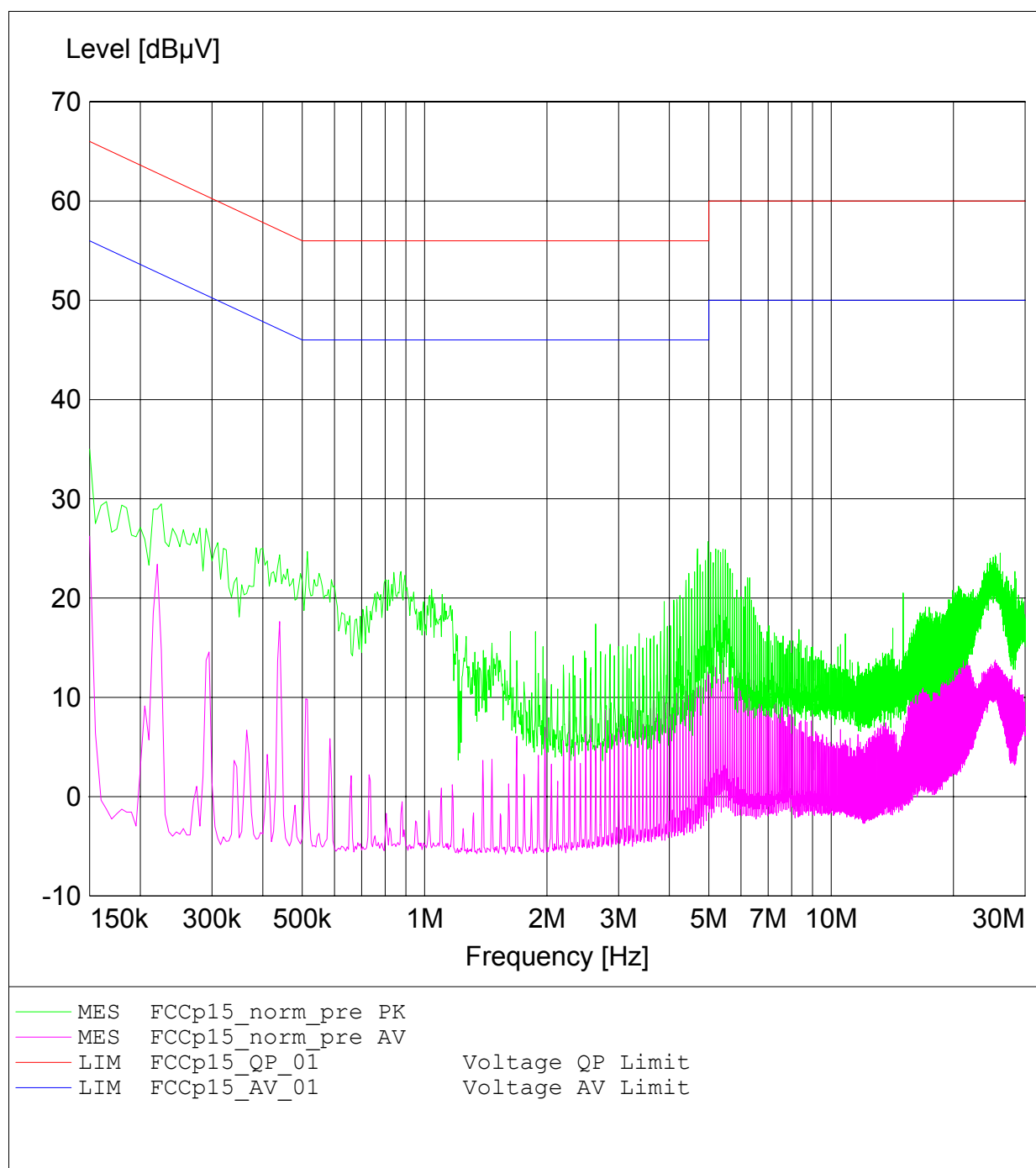
EMI voltage test in the ac-mains according to FCC part 15

EUT: SERIAL PORT WIRELESS ADAPTOR
Manufacturer: HORIZON TECHNICAL CONSULTING
Operating Condition: Unom: 120 V AC , Tnom: 23°C
Test Site: ETS
Operator: Mr. Marquardt
Test Specification: V-Network: ESH2-Z5 (L1)
Comment: model: STENO CAST X1
measure on power supply: Laptop: "Panasonic CF - 27"



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

EUT: SERIAL PORT WIRELESS ADAPTOR
Manufacturer: HORIZON TECHNICAL CONSULTING
Operating Condition: Unom: 120 V AC , Tnom: 23°C
Test Site: ETS
Operator: Mr. Marquardt
Test Specification: V-Network: ESH2-Z5 (L1)
Comment: model: STENO CAST X1 measure on power supply EUT
with Laptop: "Panasonic CF - 27"



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

EUT: SERIAL PORT WIRELESS ADAPTOR
Manufacturer: HORIZON TECHNICAL CONSULTING
Operating Condition: Unom: 120 V AC , Tnom: 23°C
Test Site: ETS
Operator: Mr. Marquardt
Test Specification: V-Network: ESH2-Z5 (N)
Comment: model: STENO CAST X1 measure on power supply EUT
with Laptop: "Panasonic CF - 27"

