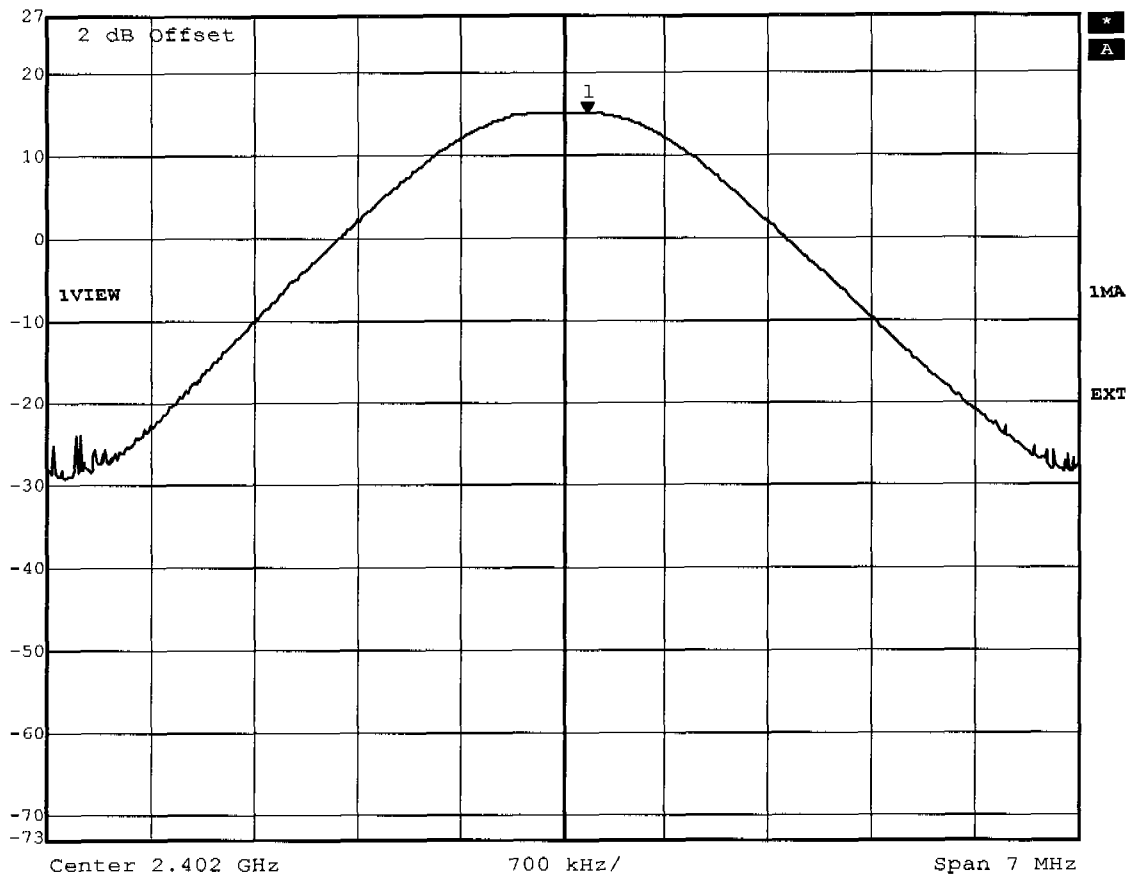


Appendix B

Peak Output Power



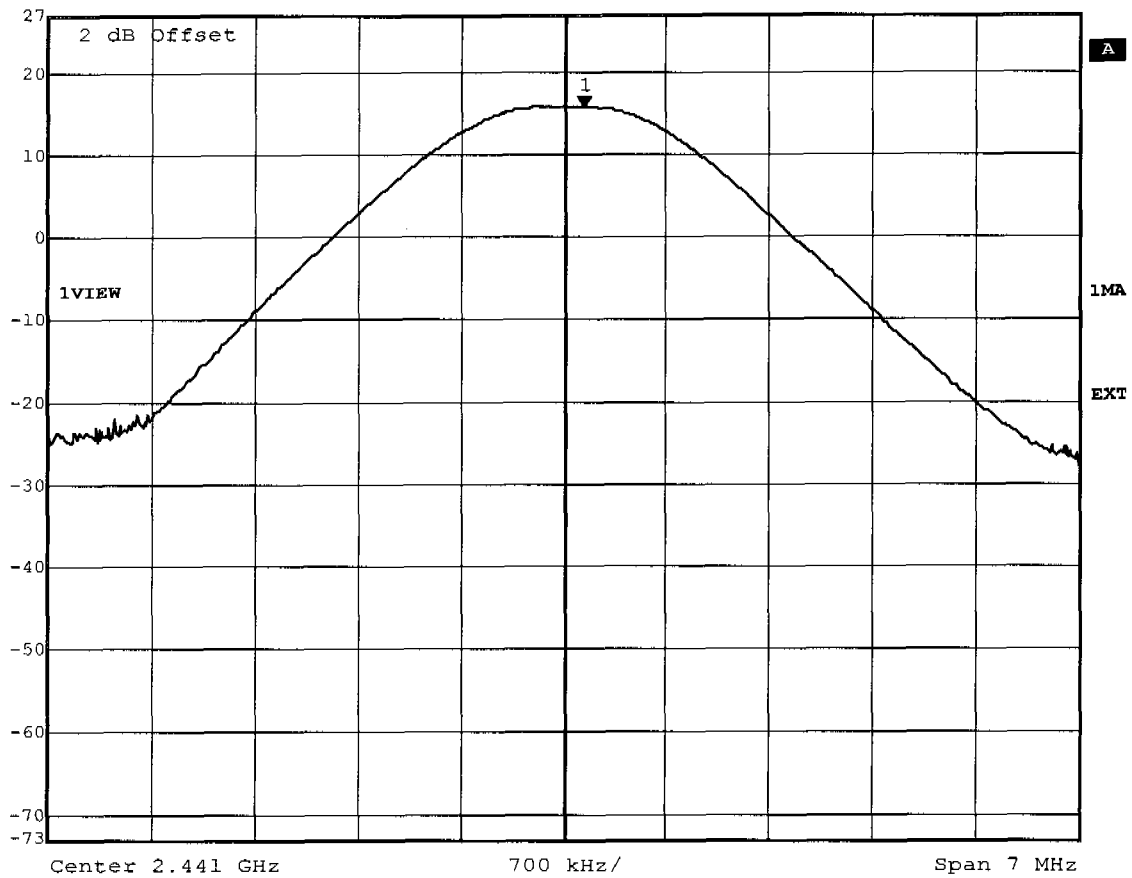
Marker 1 [T1] RBW 1 MHz RF Att 50 dB
Ref Lvl 14.87 dBm VBW 1 MHz
27 dBm 2.40217535 GHz SWT 5 ms Unit dBm



Title: Peak Output Power conducted Ch.: 0
Comment A: HPS-120
Date: 13.FEB.2004 13:52:52



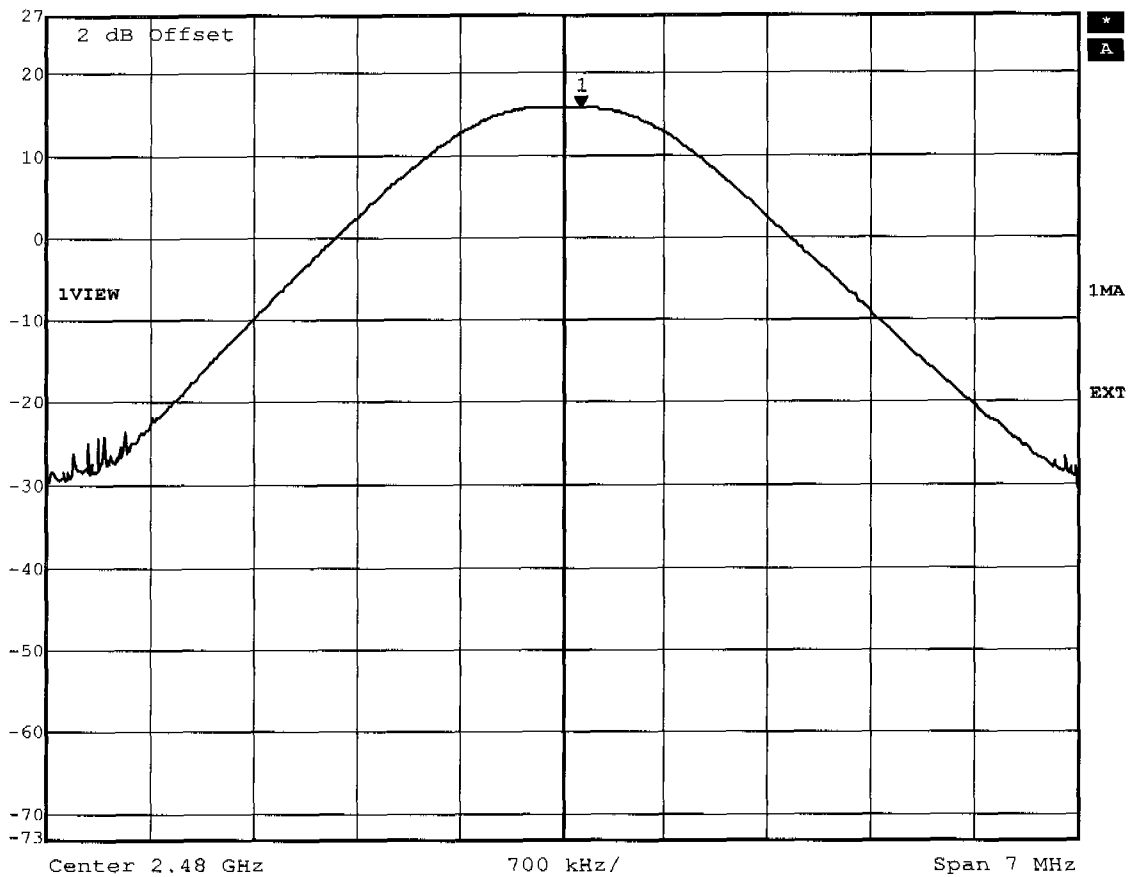
Marker 1 [T1] RBW 1 MHz RF Att 50 dB
Ref Lvl 15.58 dBm VBW 1 MHz
27 dBm 2.44114729 GHz SWT 5 ms Unit dBm



Title: Peak Output Power conducted Ch.: 39
Comment A: HPS-120
Date: 13.FEB.2004 13:51:36



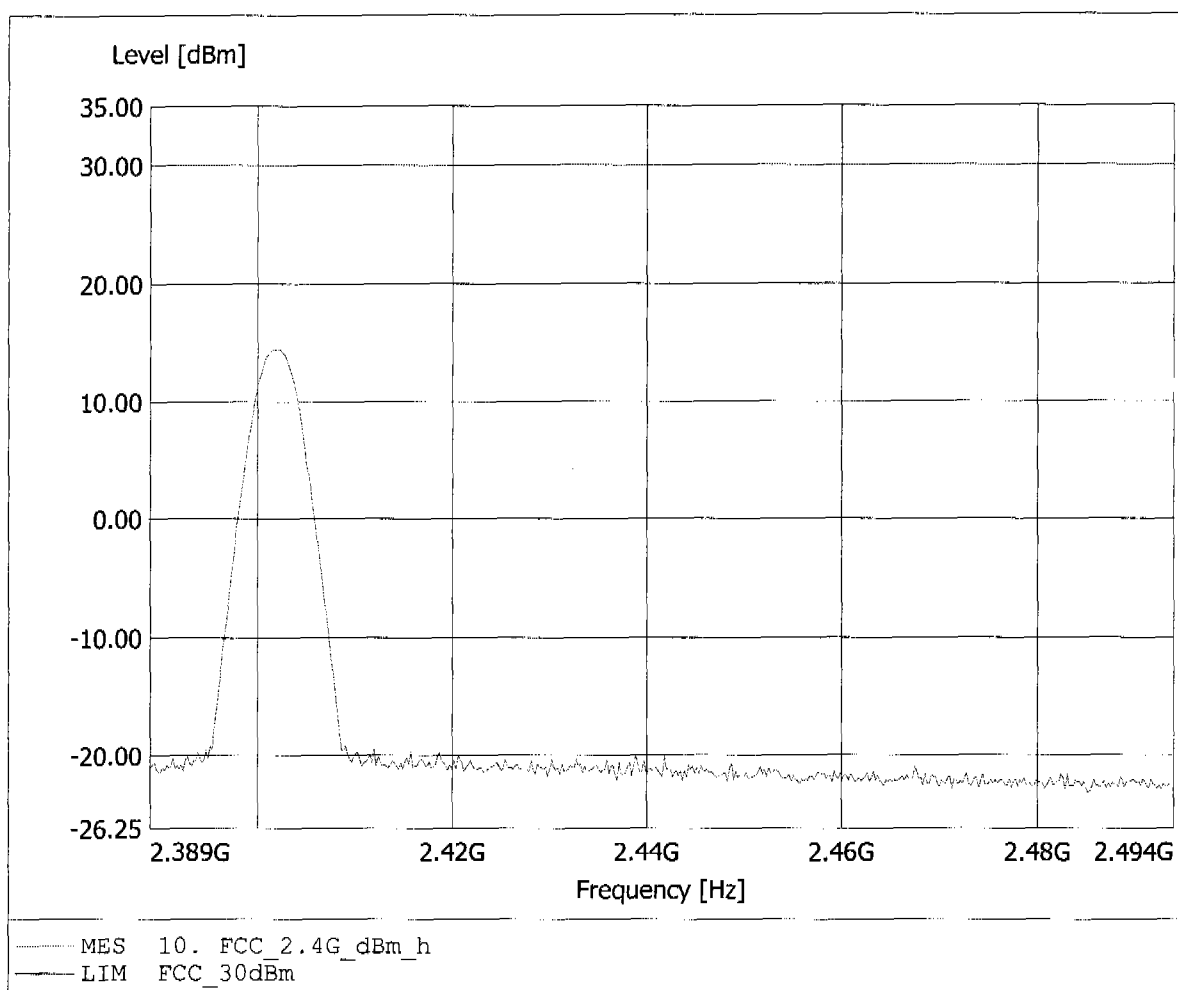
Marker 1 [T1] RBW 1 MHz RF Att 50 dB
Ref Lvl 15.61 dBm VBW 1 MHz
27 dBm 2.48013327 GHz SWT 5 ms Unit dBm



Title: Peak Output Power conducted Ch.: 78
Comment A: HPS-120
Date: 13.FEB.2004 13:53:38

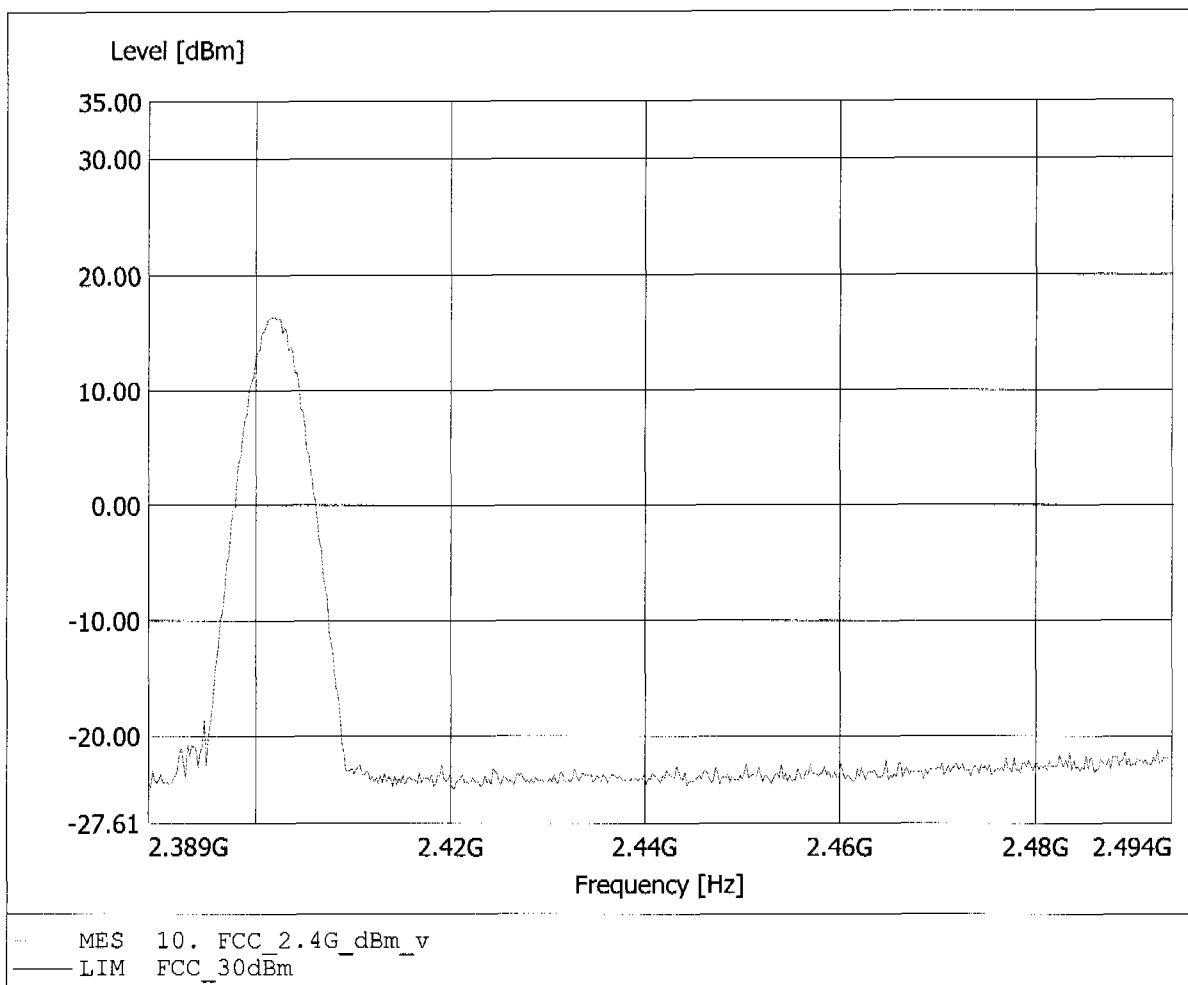
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: 14.47dBm, RBW: 5MHz



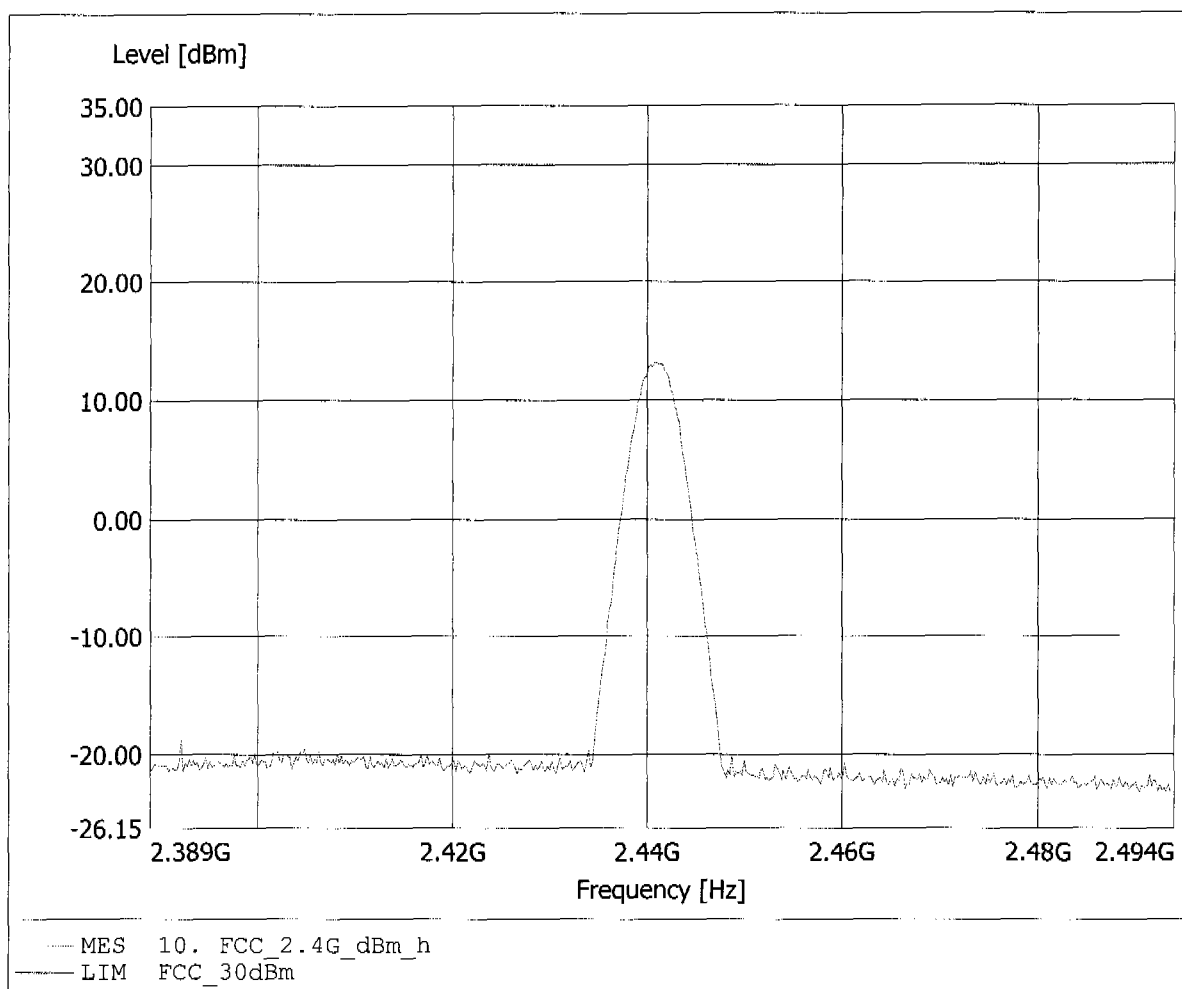
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: 16.43dBm, RBW: 5MHz



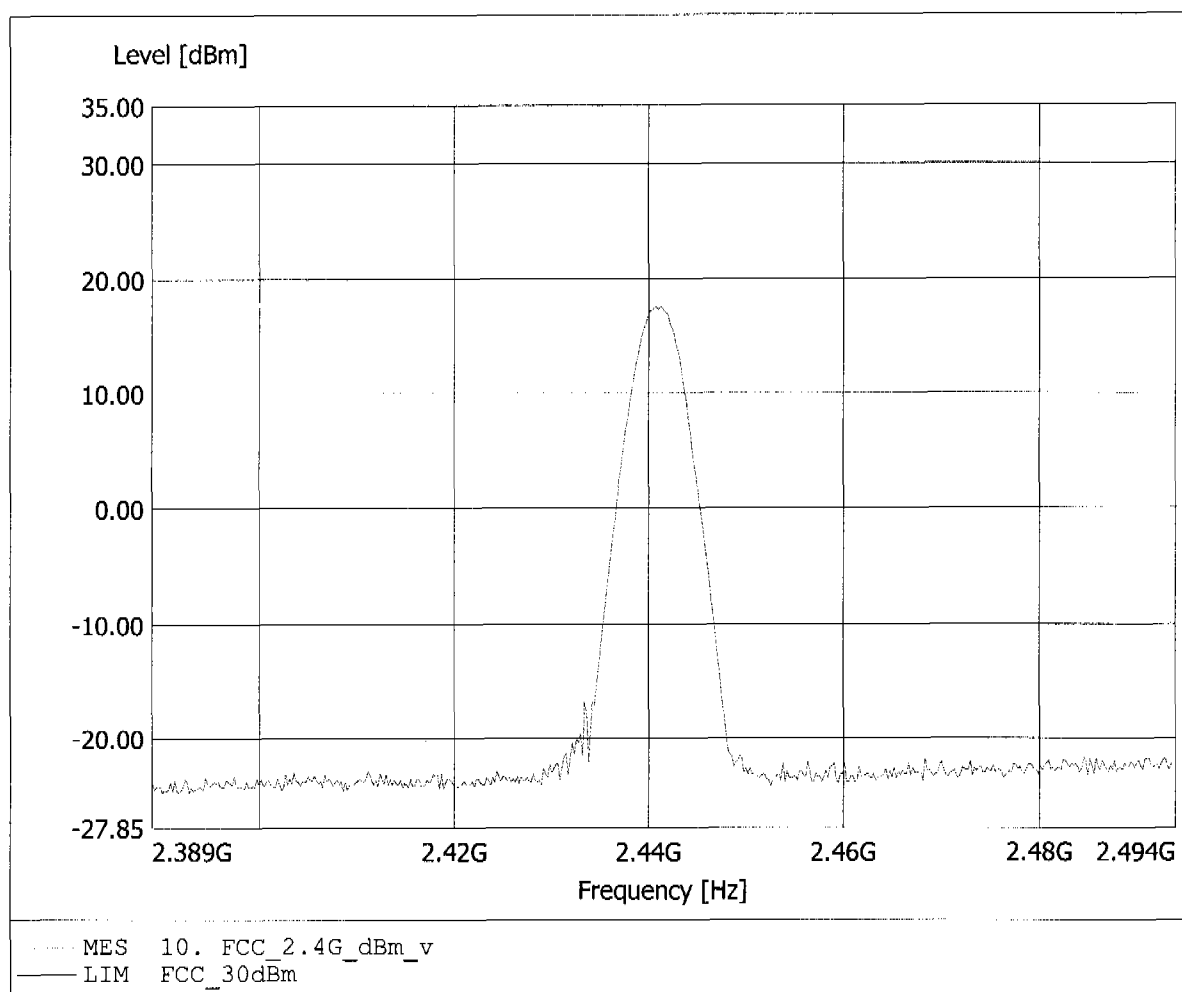
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Pmax: 13.13dBm, RBW: 5MHz



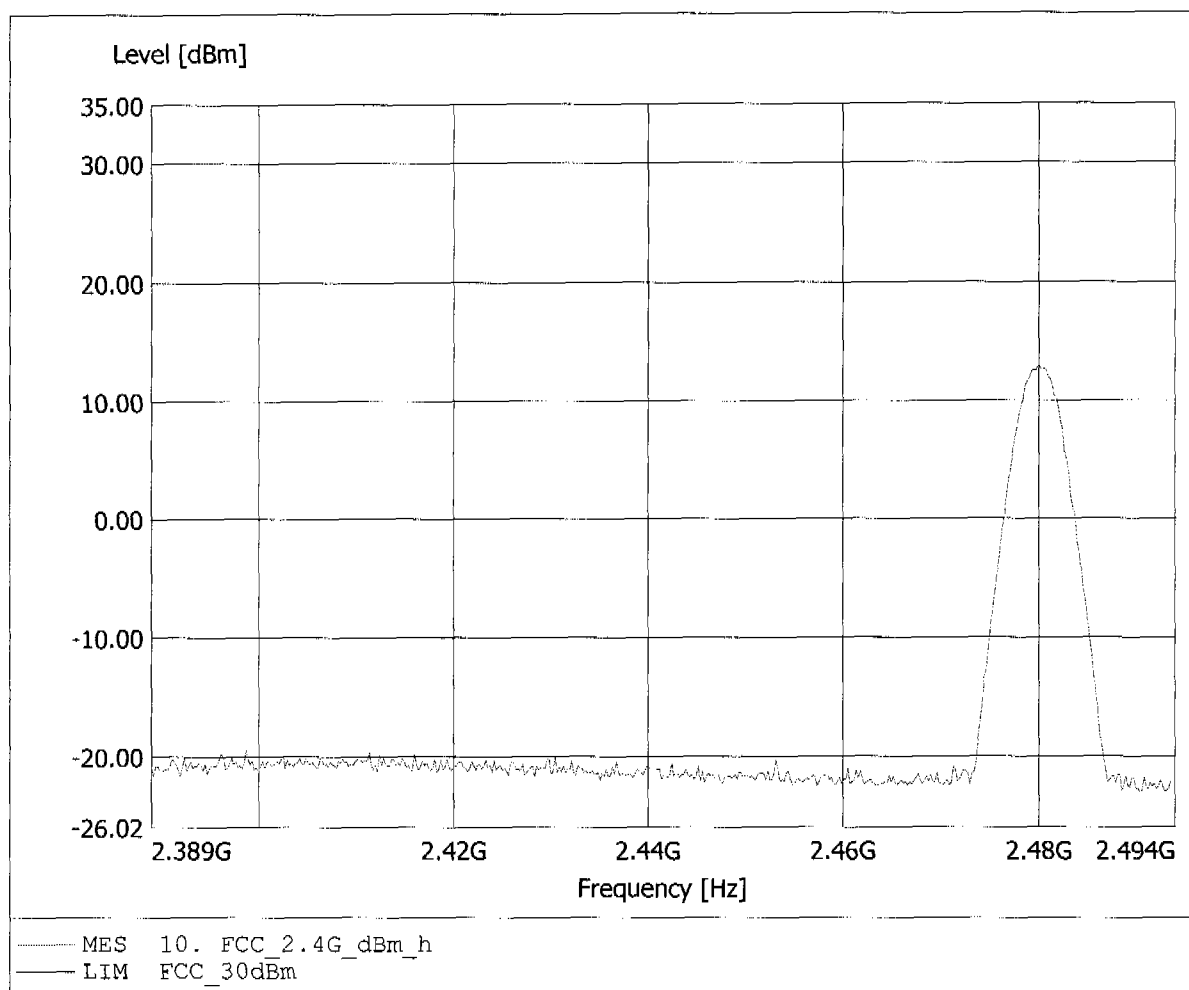
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Pmax: 17.56dBm, RBW: 5MHz



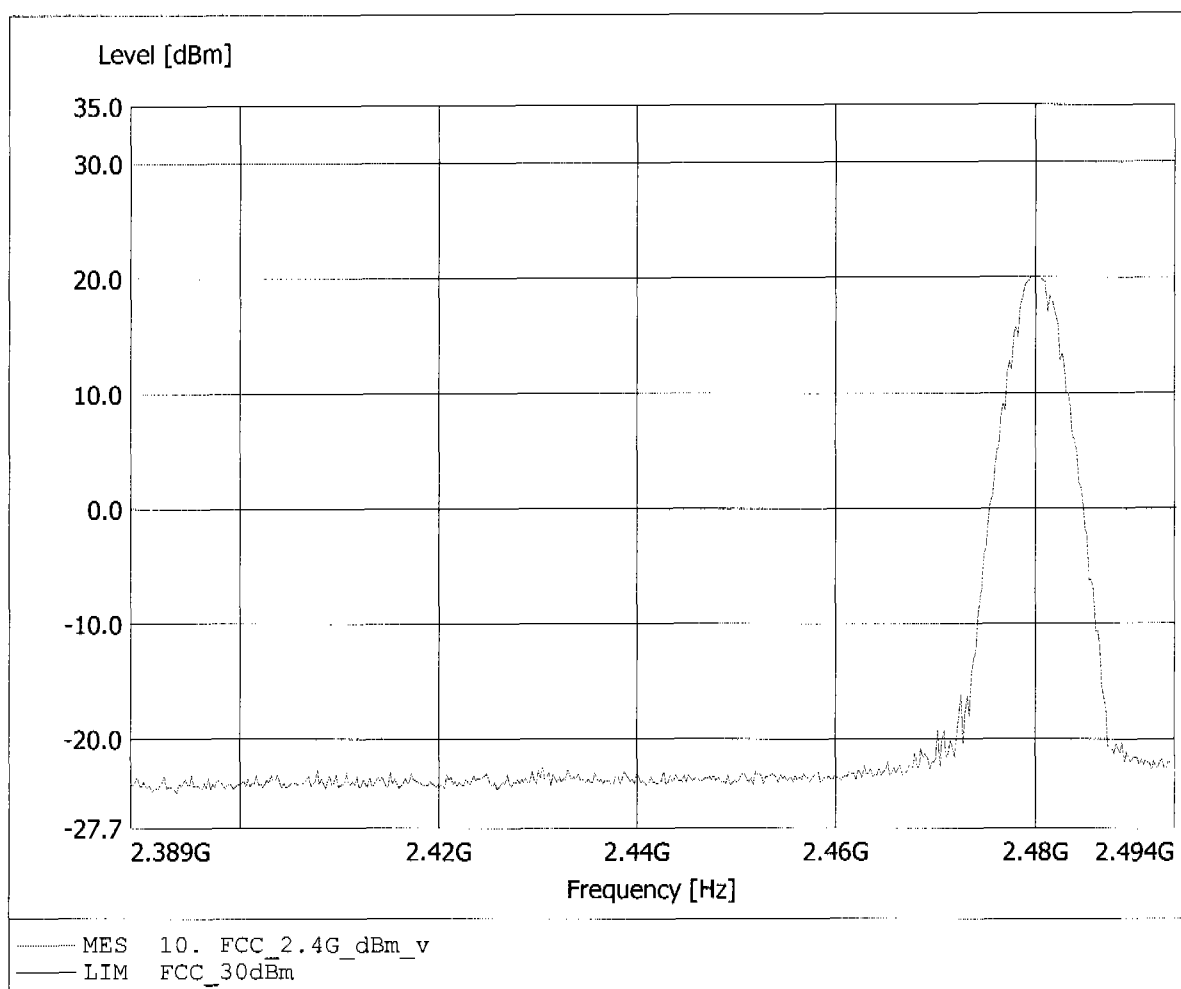
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Pmax: 12.84dBm, RBW: 5MHz



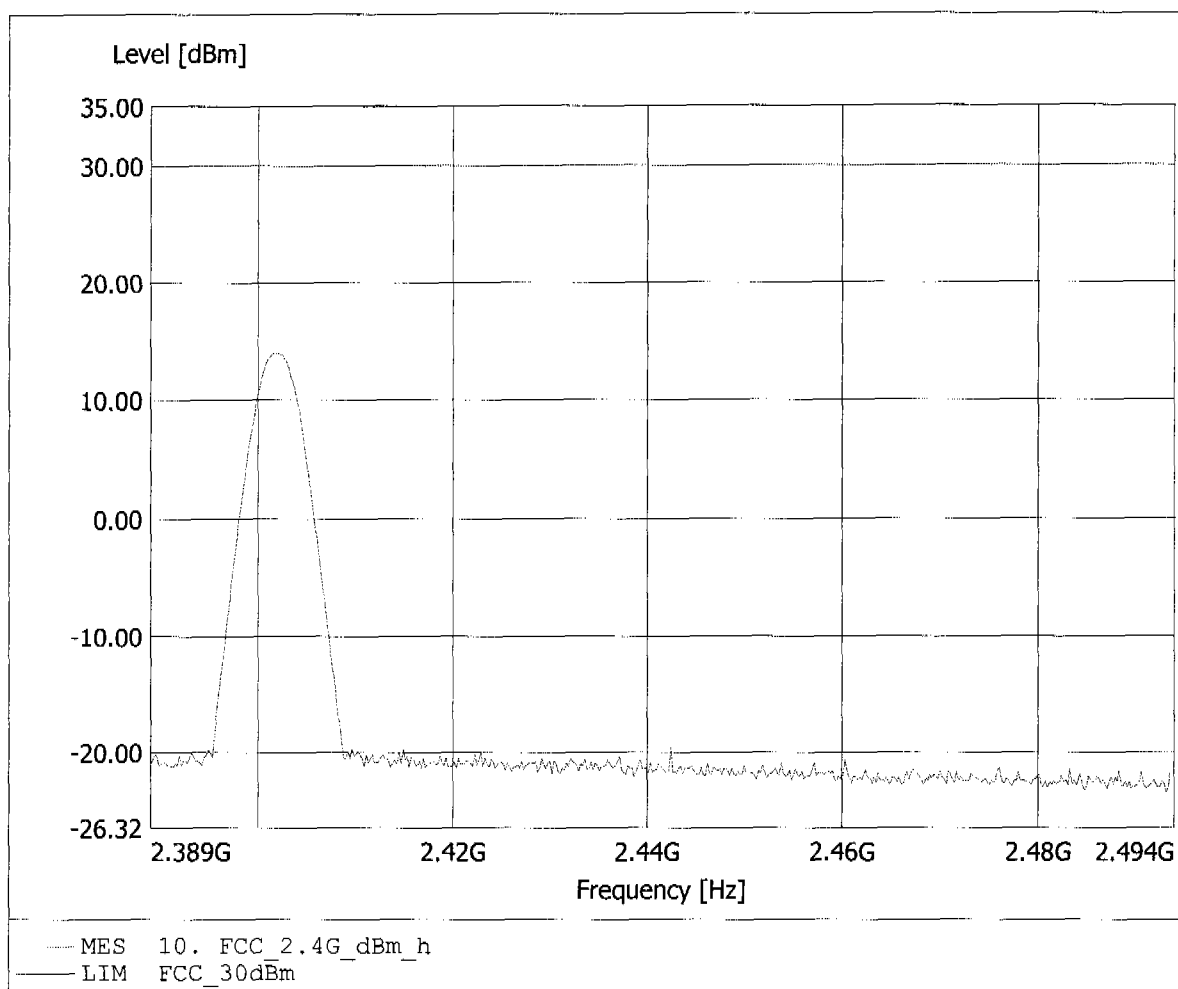
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Pmax: 20.08dBm, RBW: 5MHz



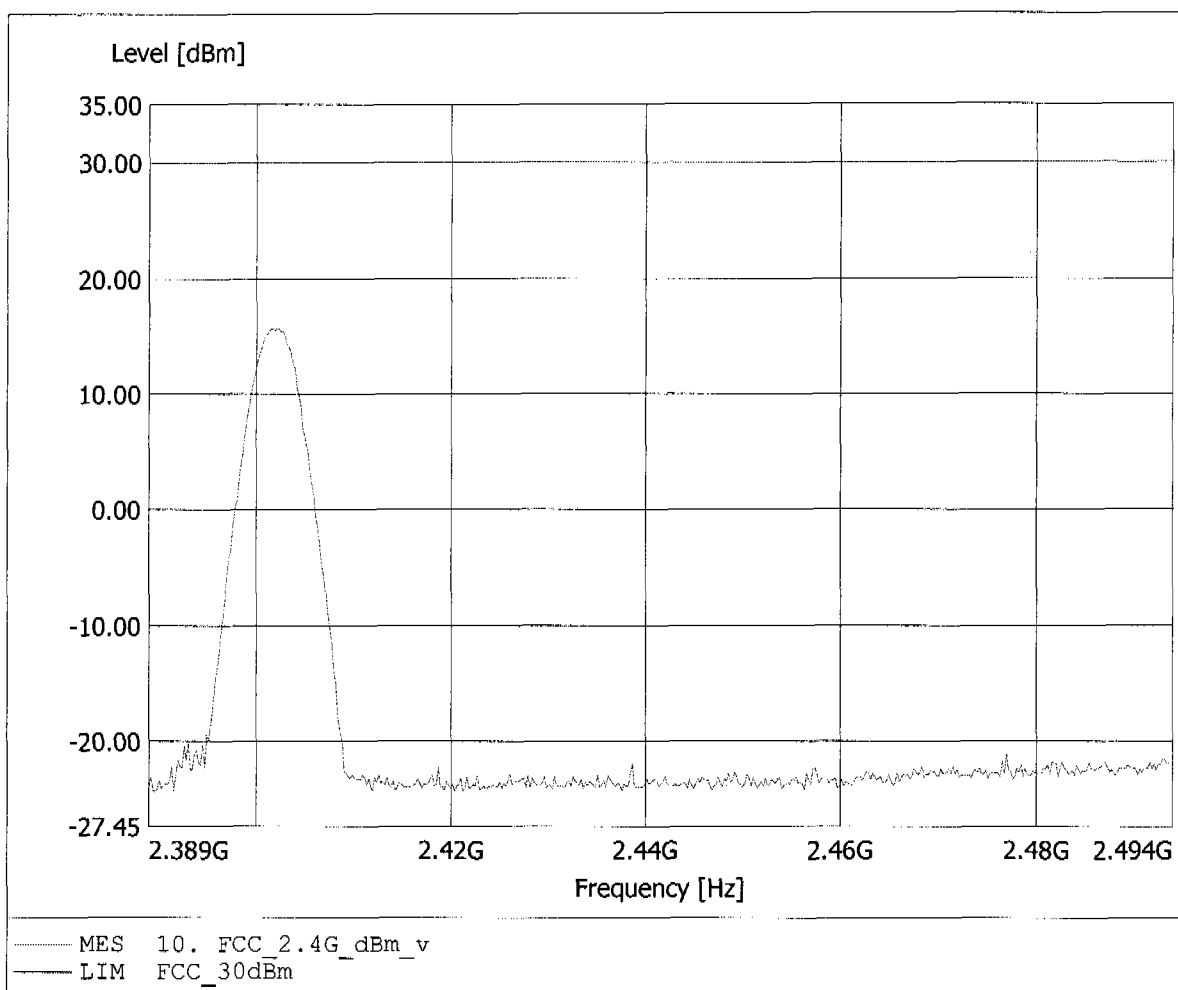
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (Host 120 V AC -15%)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: 13.92dBm, RBW: 5MHz



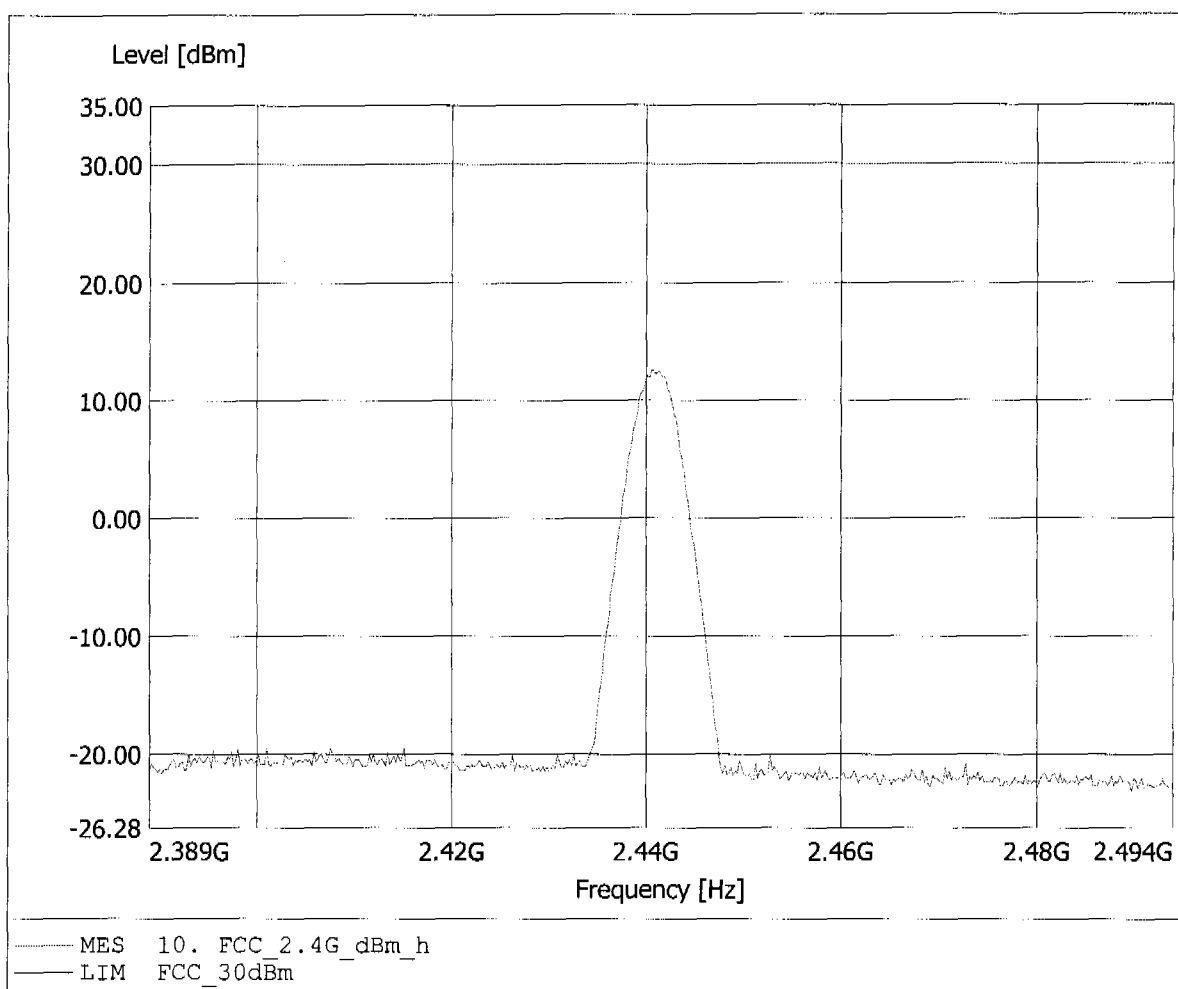
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (Host 120 V AC -15%)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: 15.69dBm, RBW: 5MHz



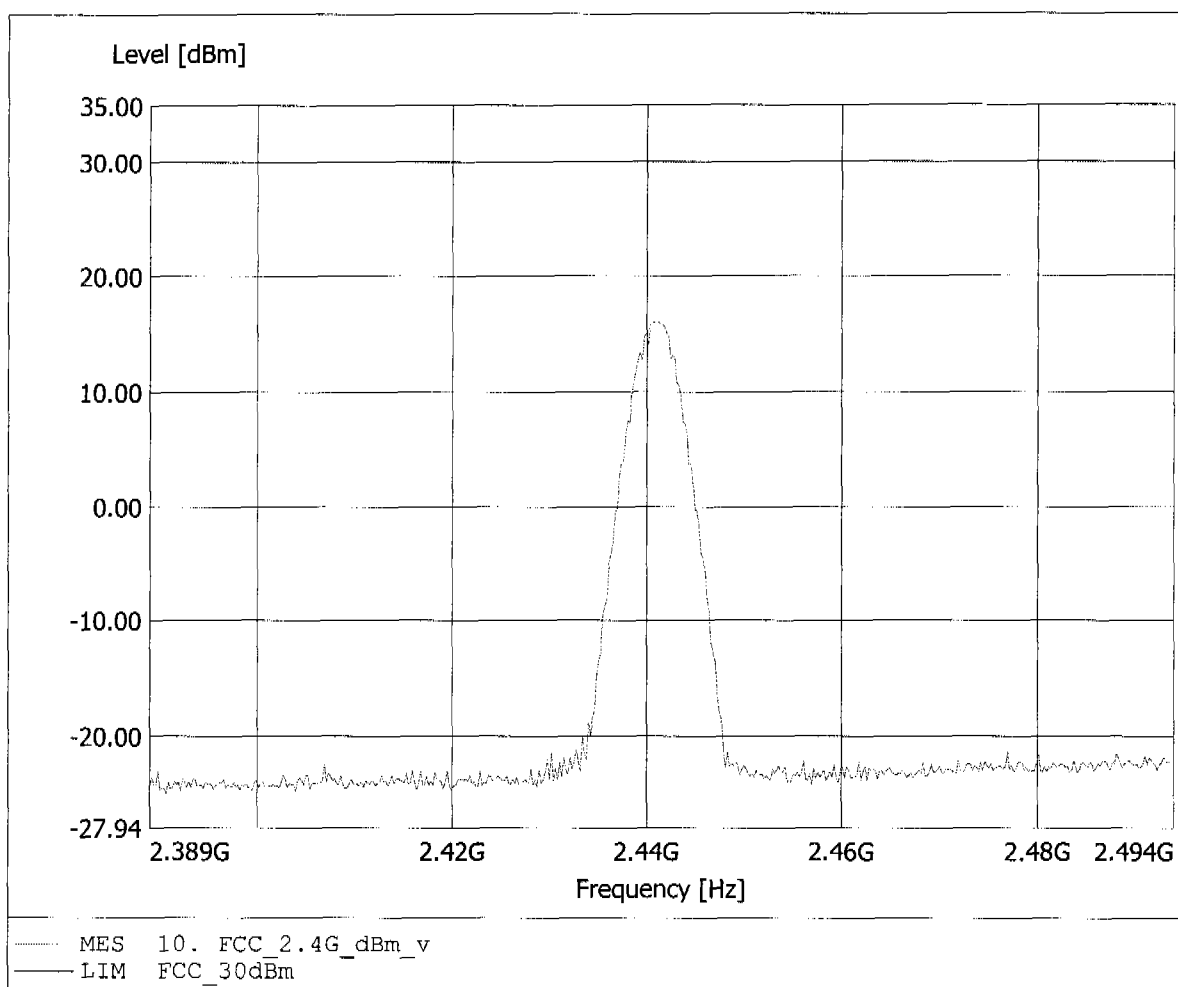
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (Host 120 V AC -15%)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Pmax: 12.56dBm, RBW: 5MHz



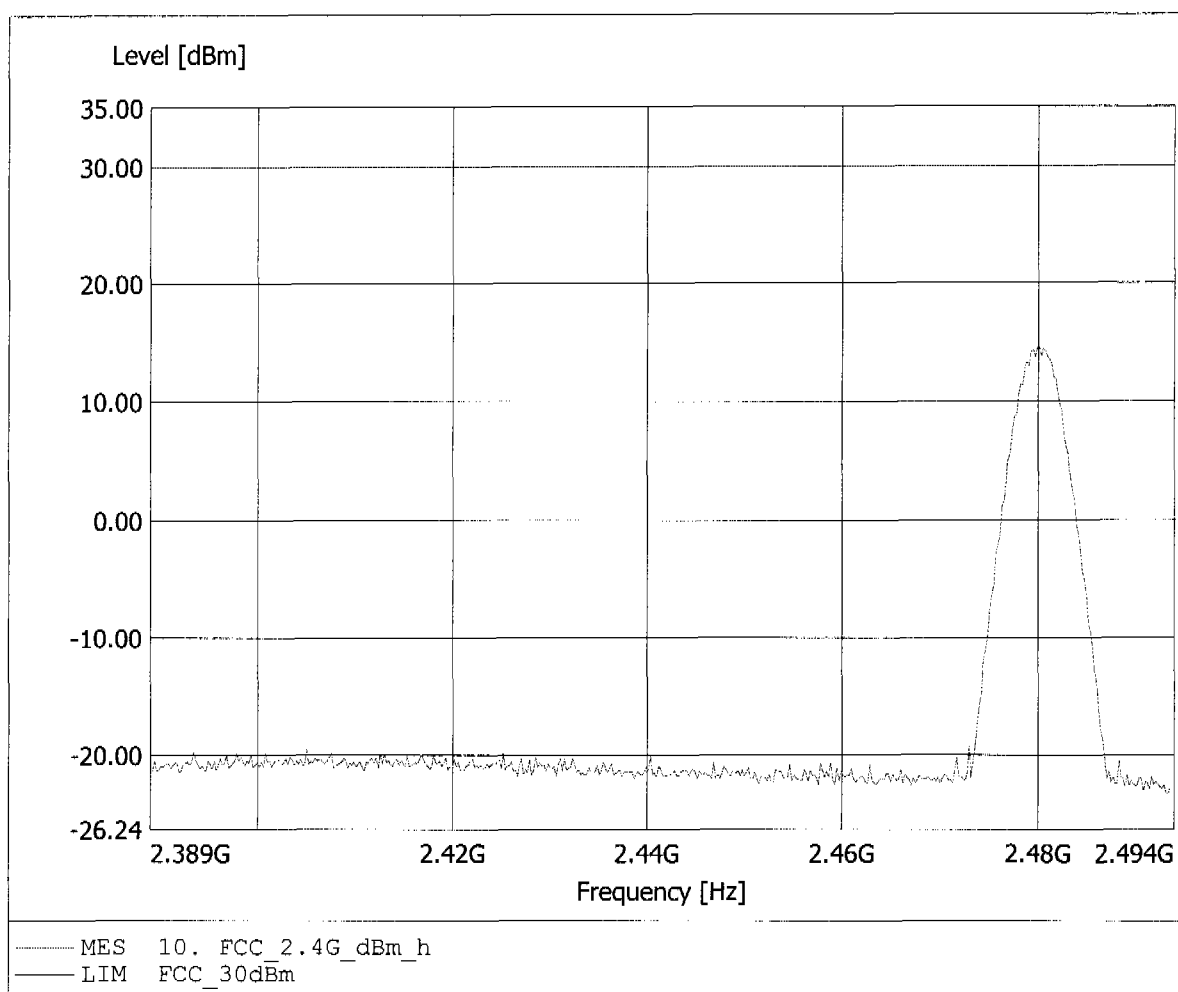
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2441 MHz
 Model: HPS-120
 Approval Holder: HandyWave Co., Ltd.
 Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (Host 120 V AC -15%)
 Test Site / Operator: ETS / Mr. Hoppe
 Test Specification: according to §15.247
 Comment 1: Dist.: 3m, Ant.: BBHA9120D
 Comment 2: Freq: 2.441GHz, Pmax: 16.09dBm, RBW: 5MHz



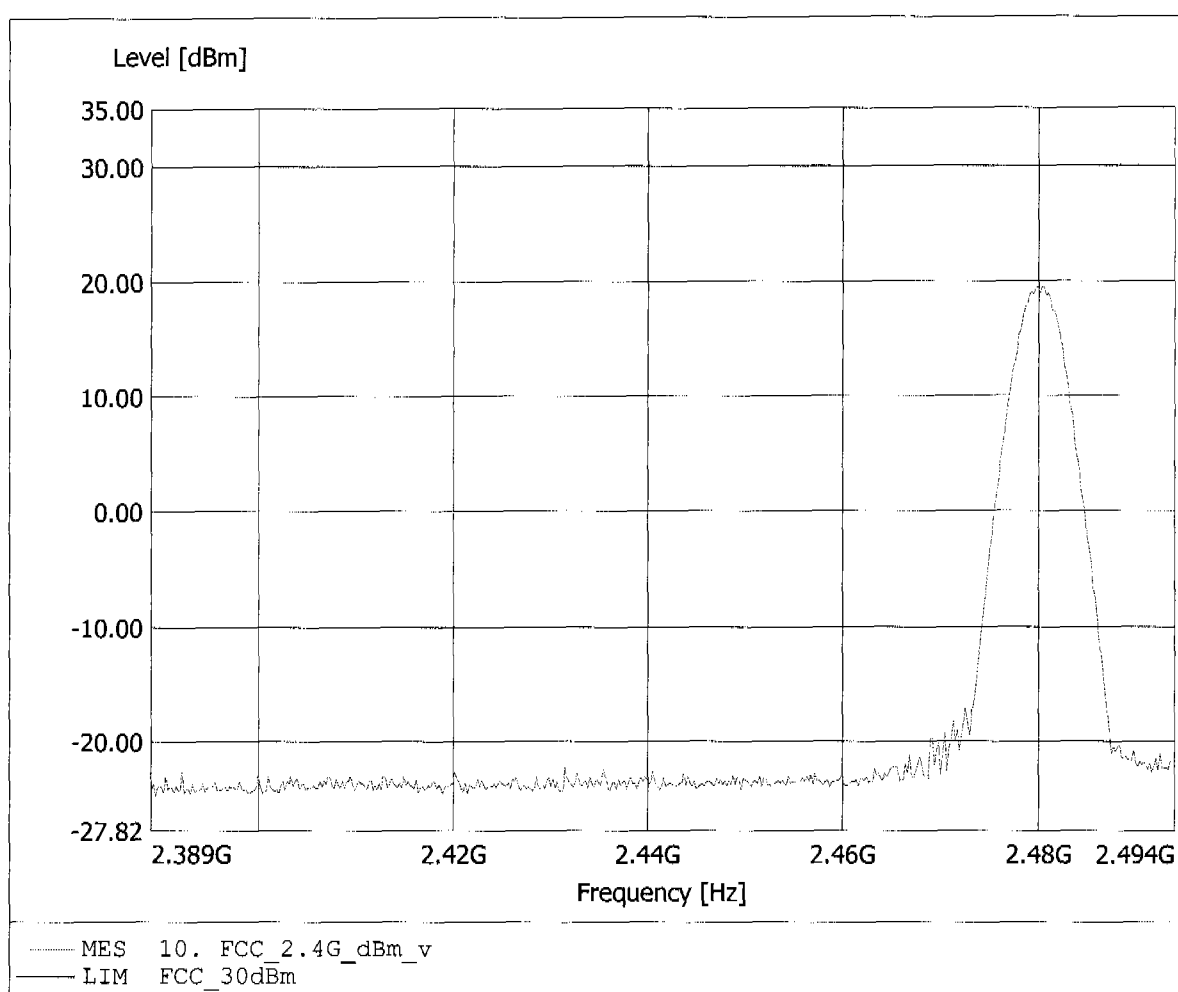
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (Host 120 V AC -15%)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Pmax: 14.54dBm, RBW: 5MHz



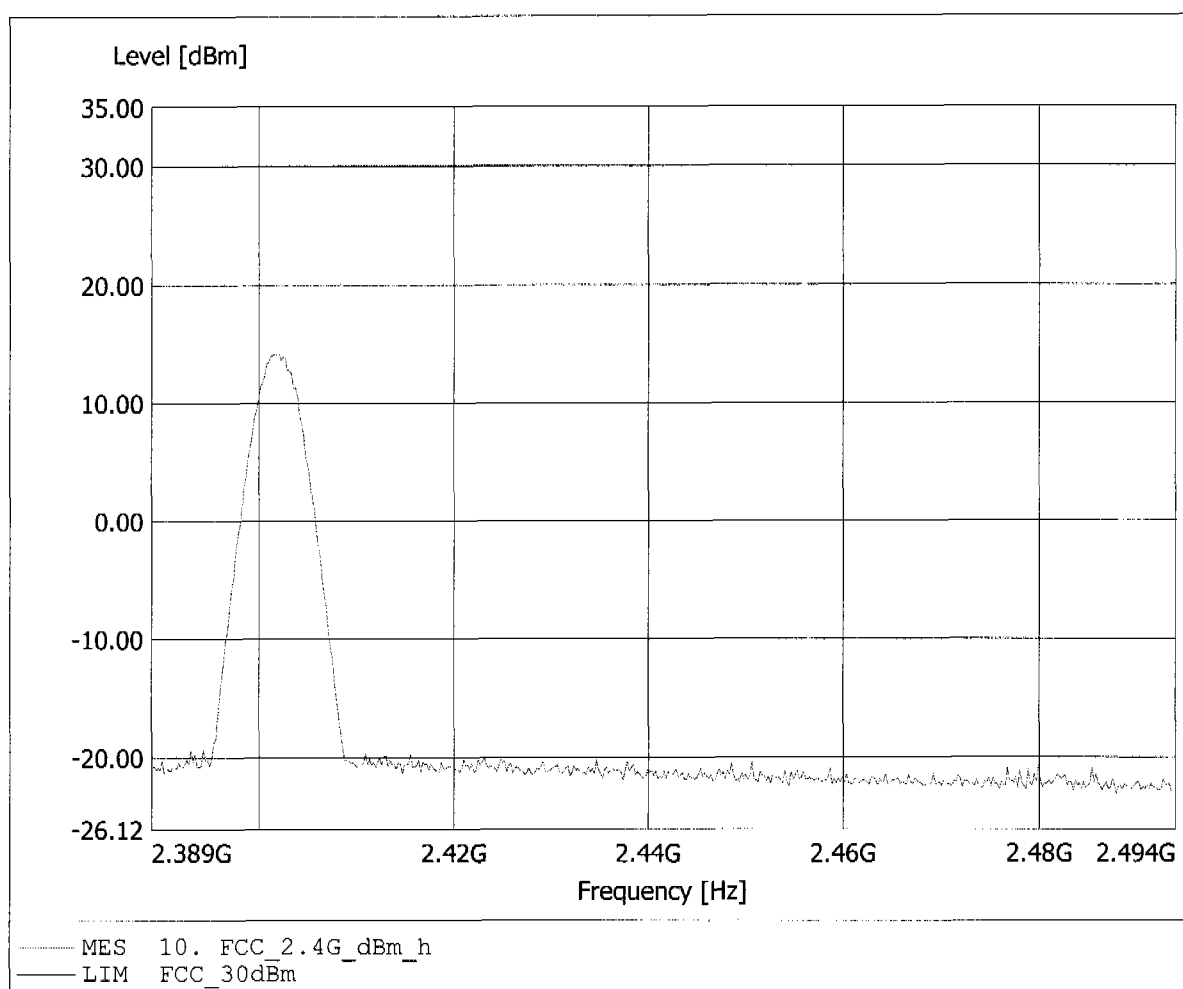
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (Host 120 V AC -15%)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Pmax: 19.49dBm, RBW: 5MHz



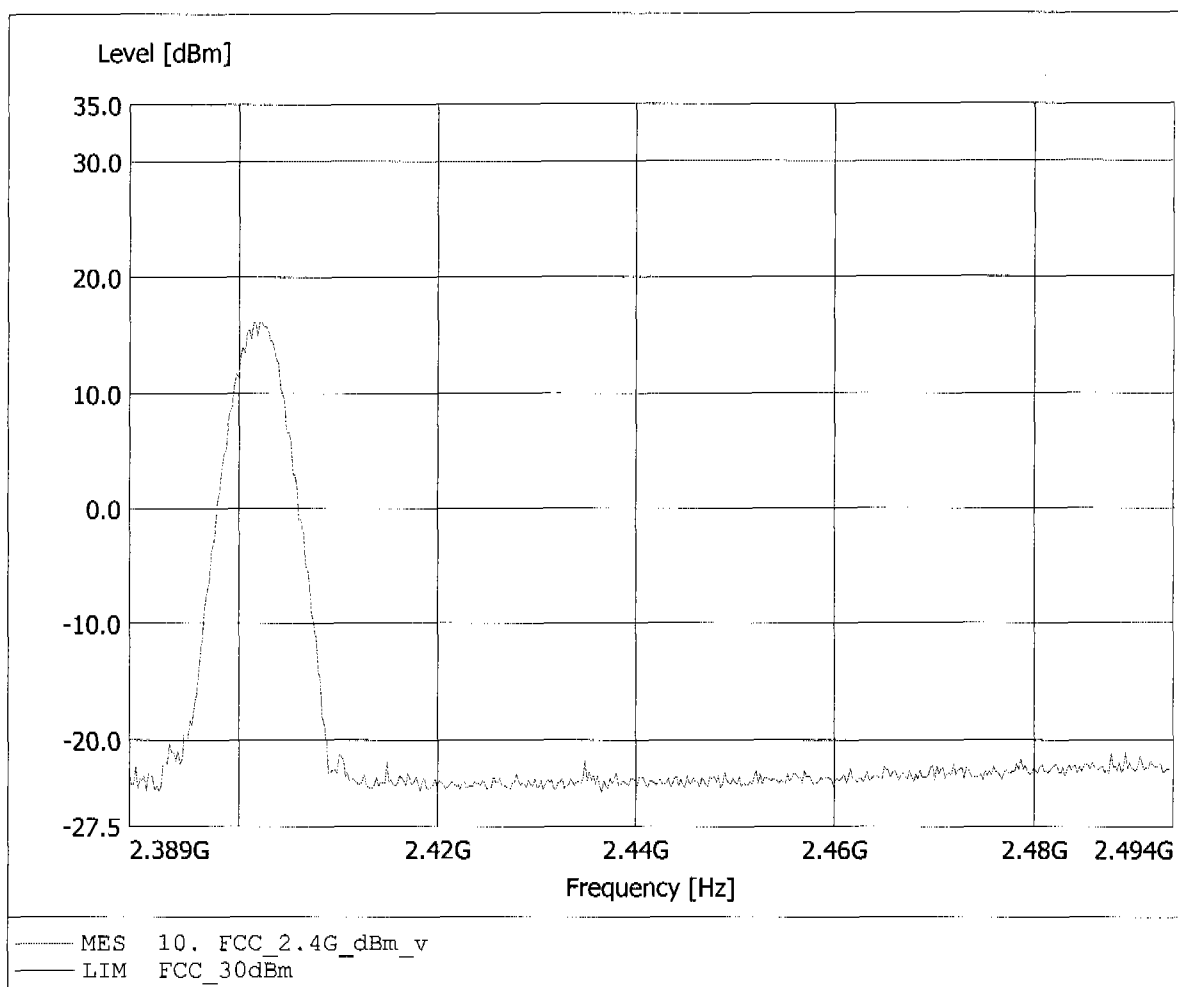
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2402 MHz
 Model: HPS-120
 Approval Holder: HandyWave Co., Ltd.
 Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (Host 120 V AC +15%)
 Test Site / Operator: ETS / Mr. Hoppe
 Test Specification: according to §15.247
 Comment 1: Dist.: 3m, Ant.: BBHA9120D
 Comment 2: Freq: 2.402GHz, Pmax: 14.16dBm, RBW: 5MHz



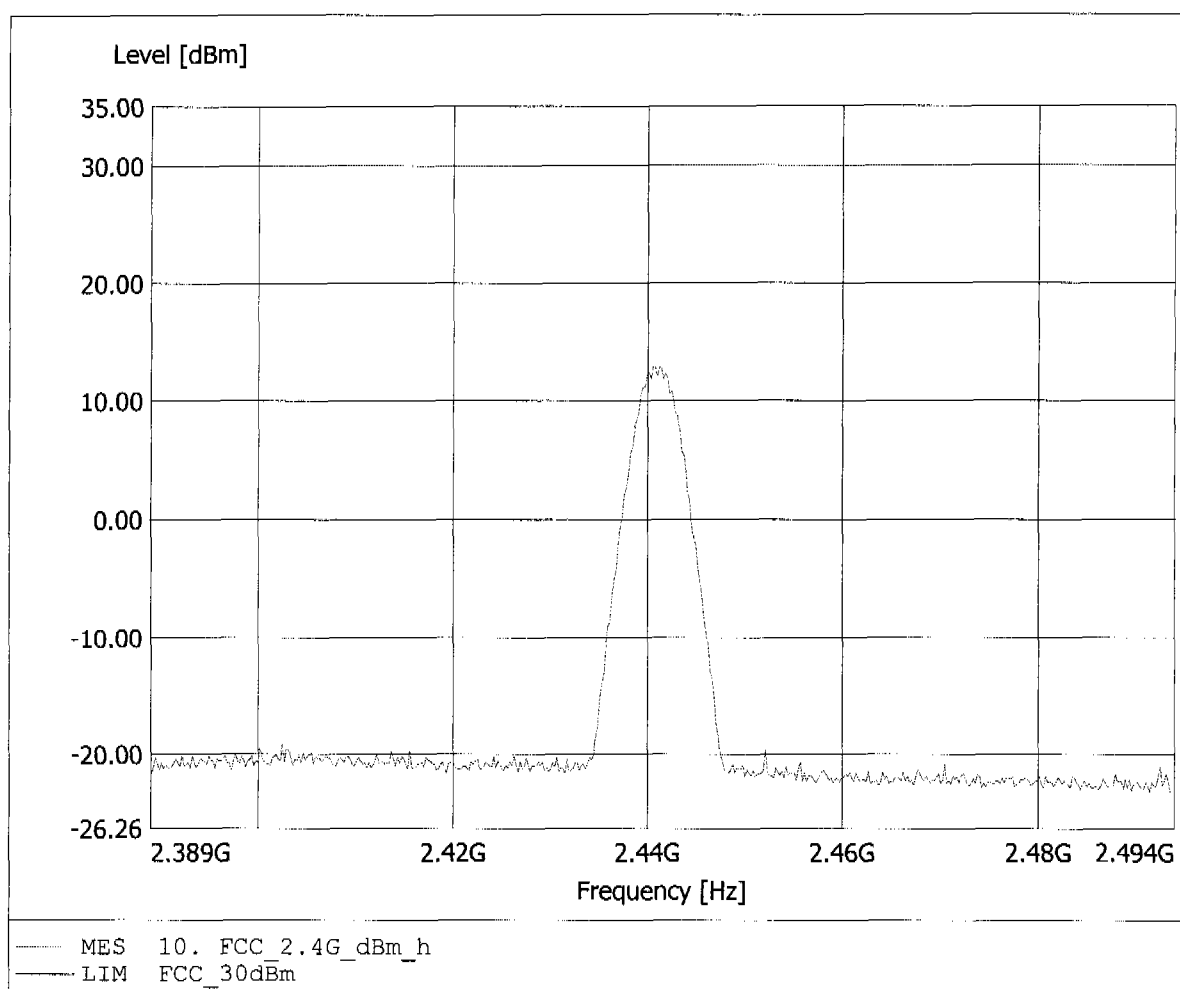
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (Host 120 V AC +15%)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: 16.20dBm, RBW: 5MHz



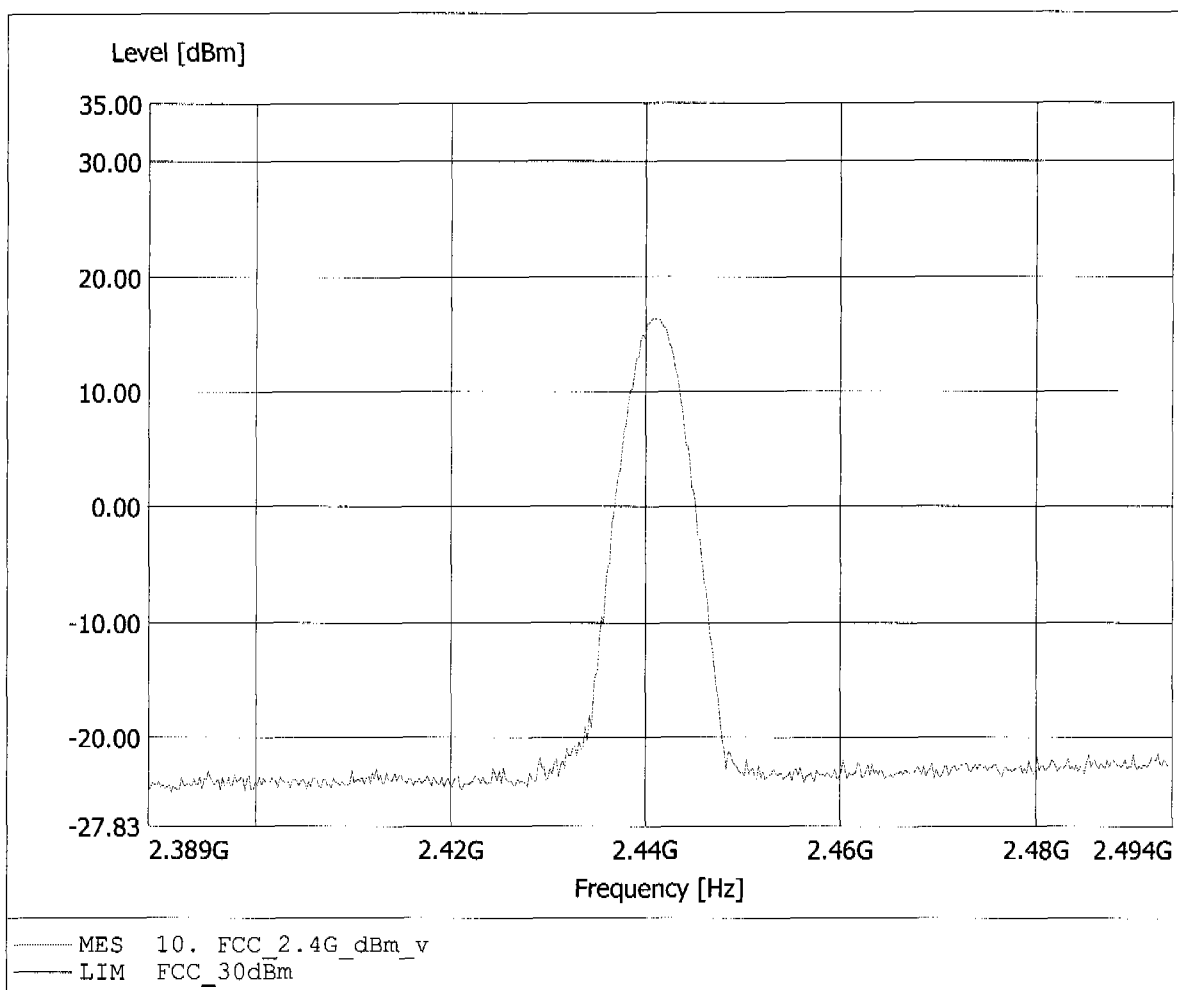
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (Host 120 V AC +15%)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Pmax: 12.87dBm, RBW: 5MHz



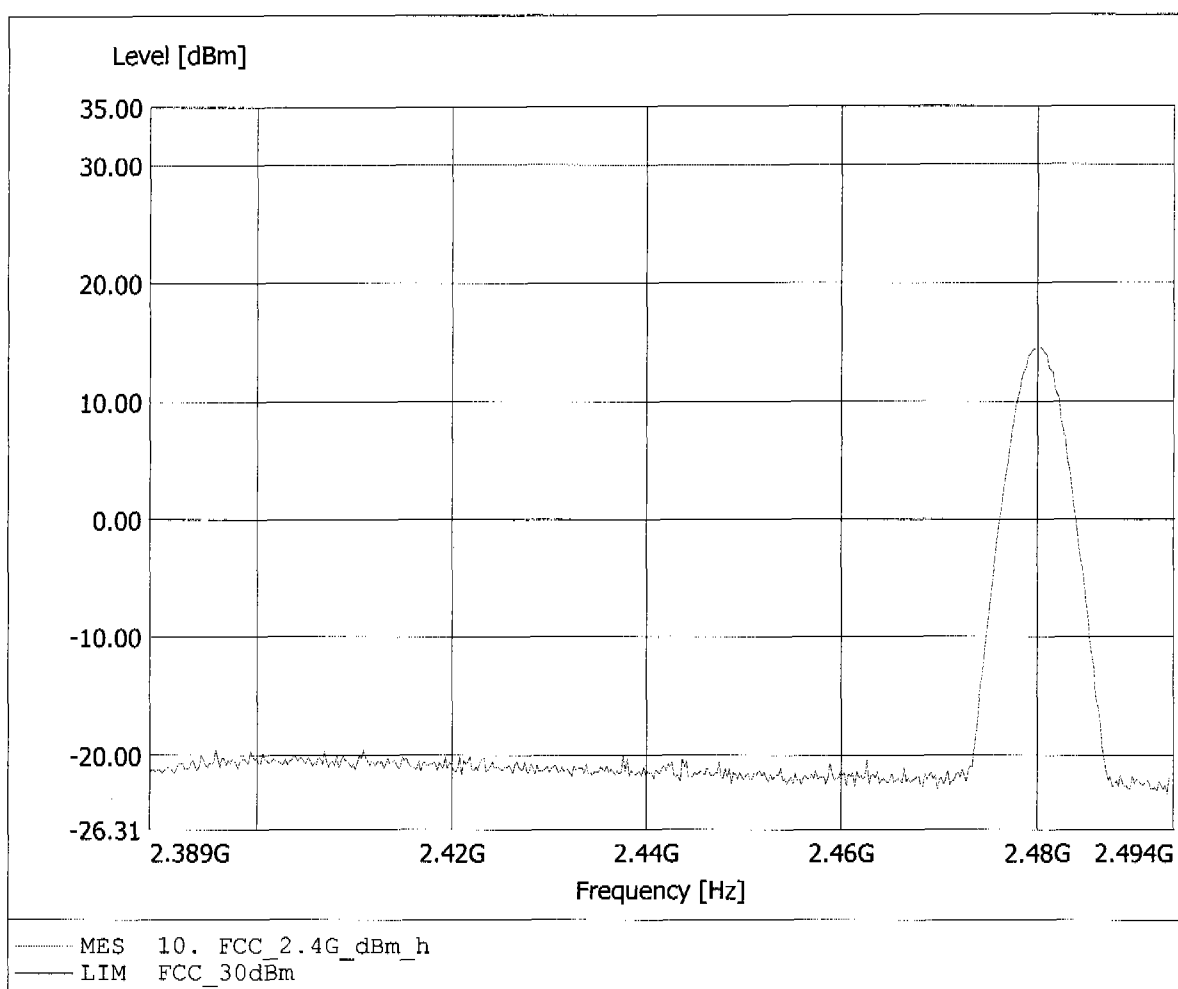
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (Host 120 V AC +15%)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Pmax: 16.37dBm, RBW: 5MHz



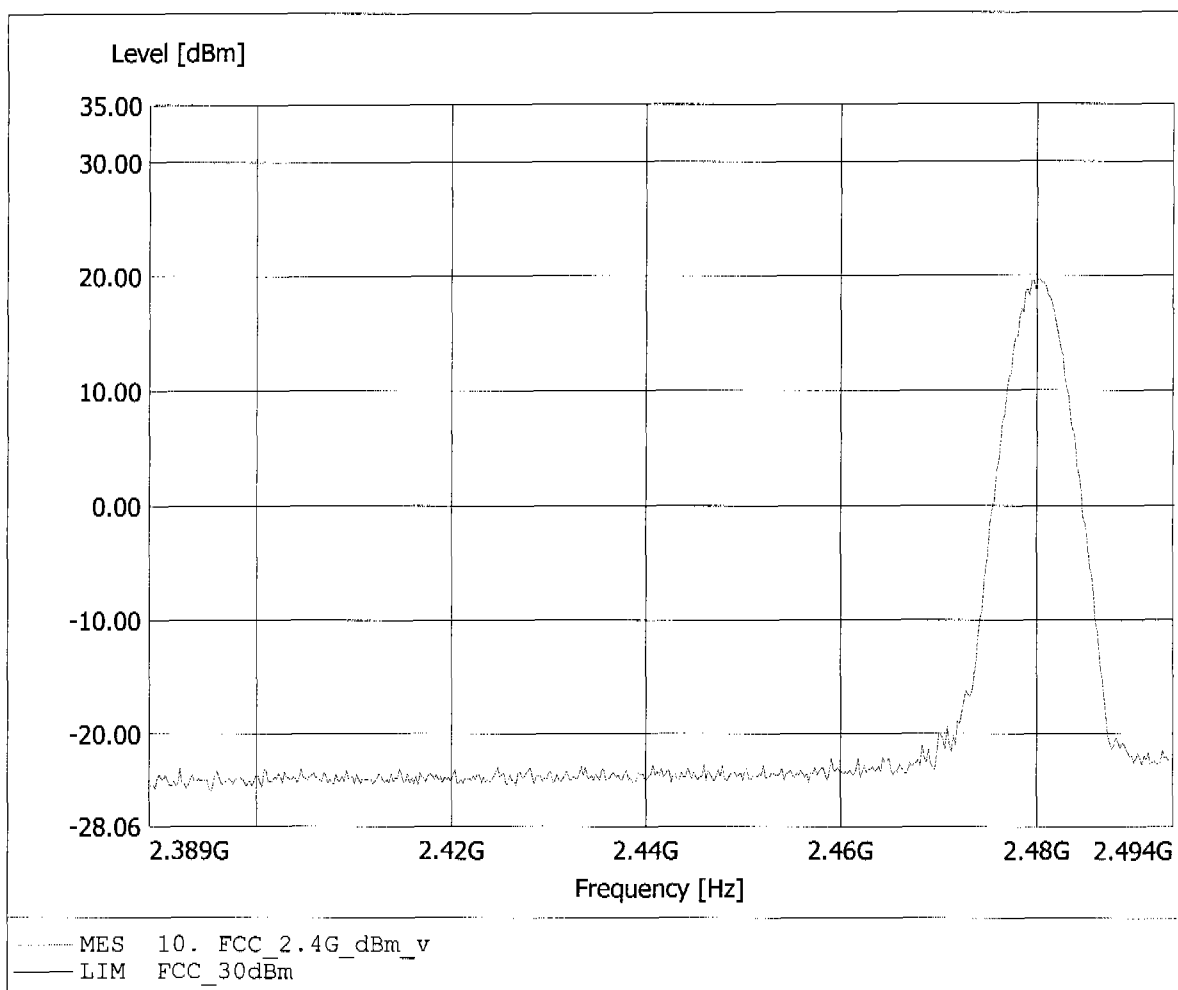
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2480 MHz
 Model: HPS-120
 Approval Holder: HandyWave Co., Ltd.
 Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (Host 120 V AC +15%)
 Test Site / Operator: ETS / Mr. Hoppe
 Test Specification: according to §15.247
 Comment 1: Dist.: 3m, Ant.: BBHA9120D
 Comment 2: Freq: 2.480GHz, Pmax: 14.52dBm, RBW: 5MHz



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

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (Host 120 V AC +15%)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Pmax: 19.59dBm, RBW: 5MHz

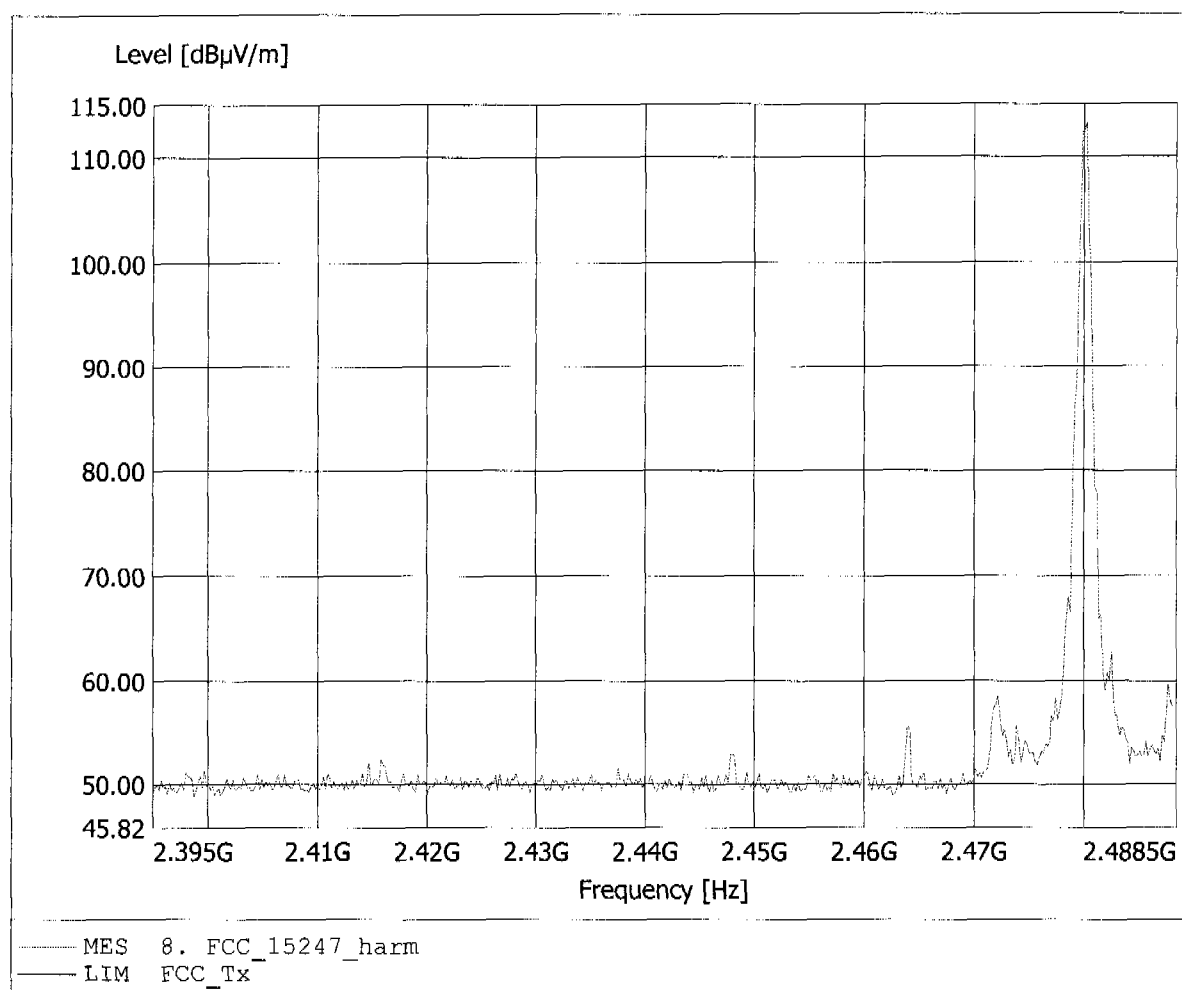


Appendix C

Spurious Emissions radiated - Transmitter operating

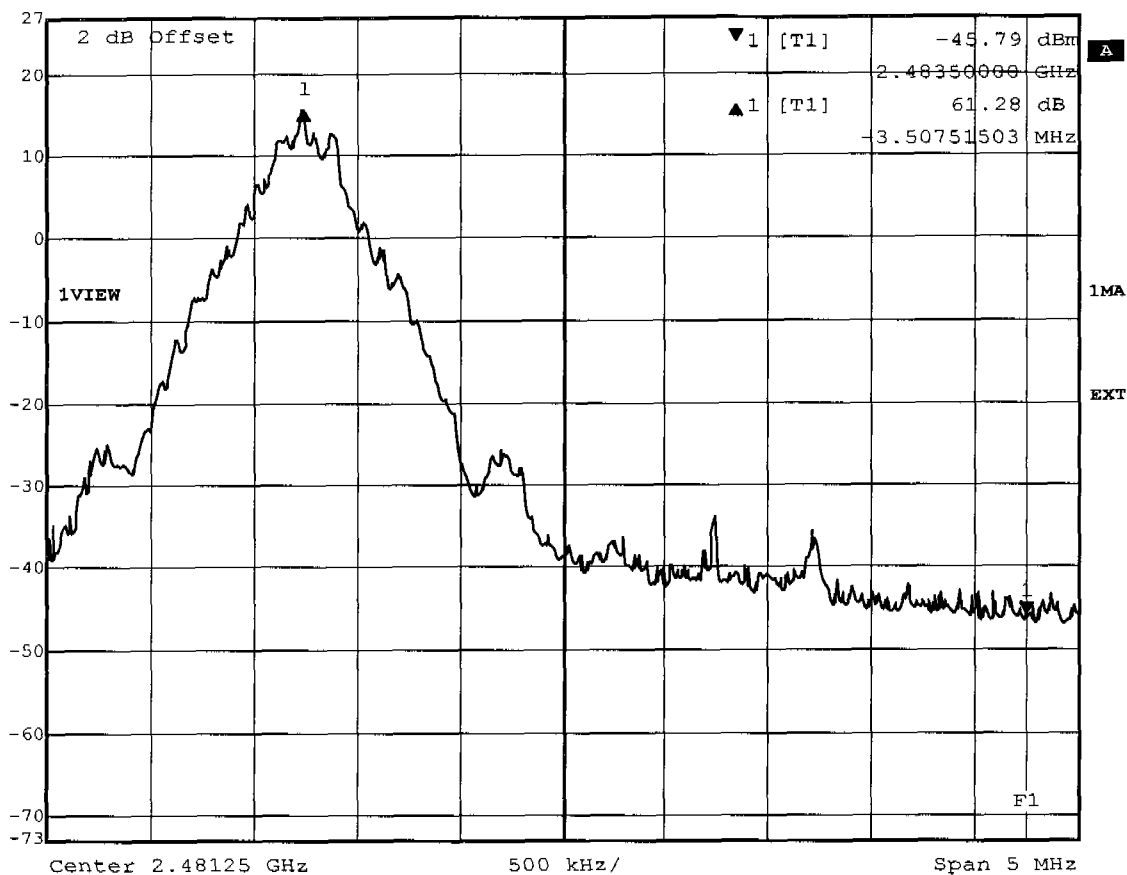
Carrier power (Field Strength)
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Emax: 113.20dBµV/m, RBW: 100kHz





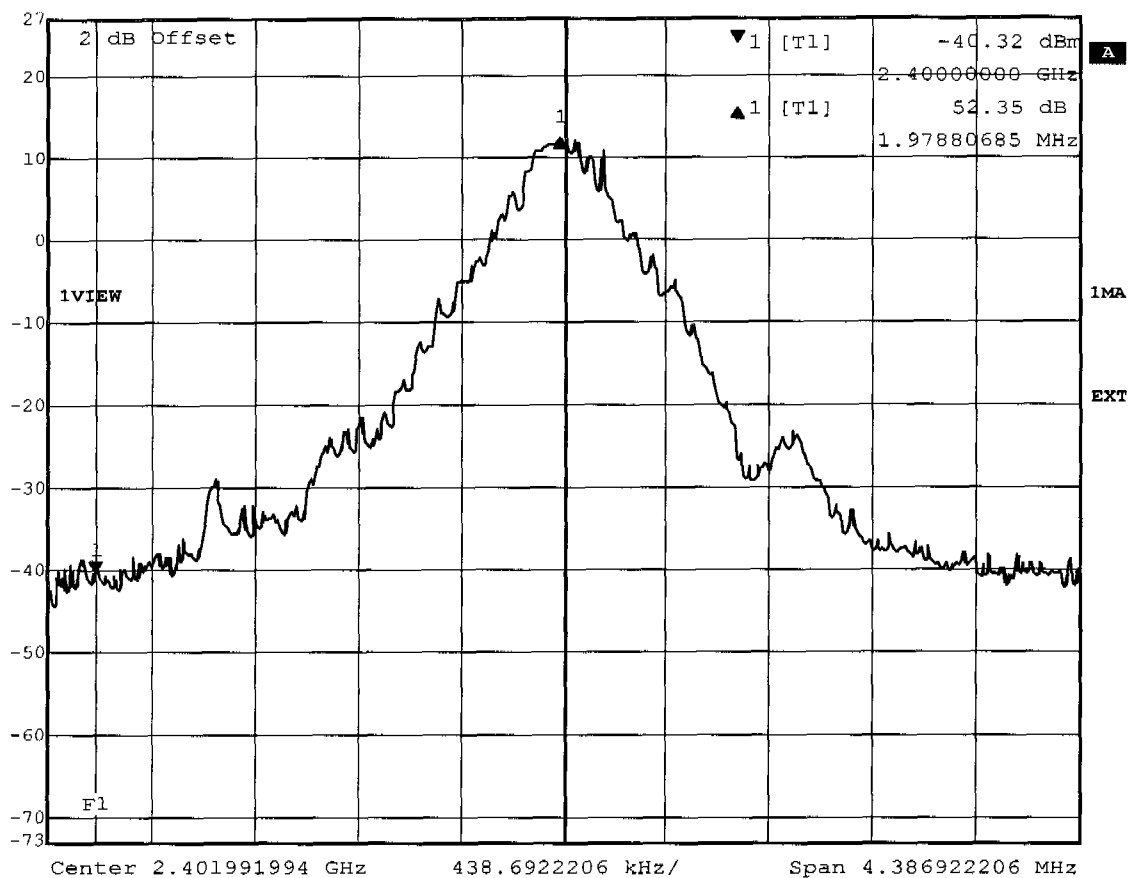
Delta 1 [T1] RBW 30 kHz RF Att 50 dB
Ref Lvl 61.28 dB VBW 30 kHz
27 dBm -3.50751503 MHz SWT 14 ms Unit dBm



Title: Marker-Delta Method
Comment A: HPS-120
Date: 13.FEB.2004 14:10:13



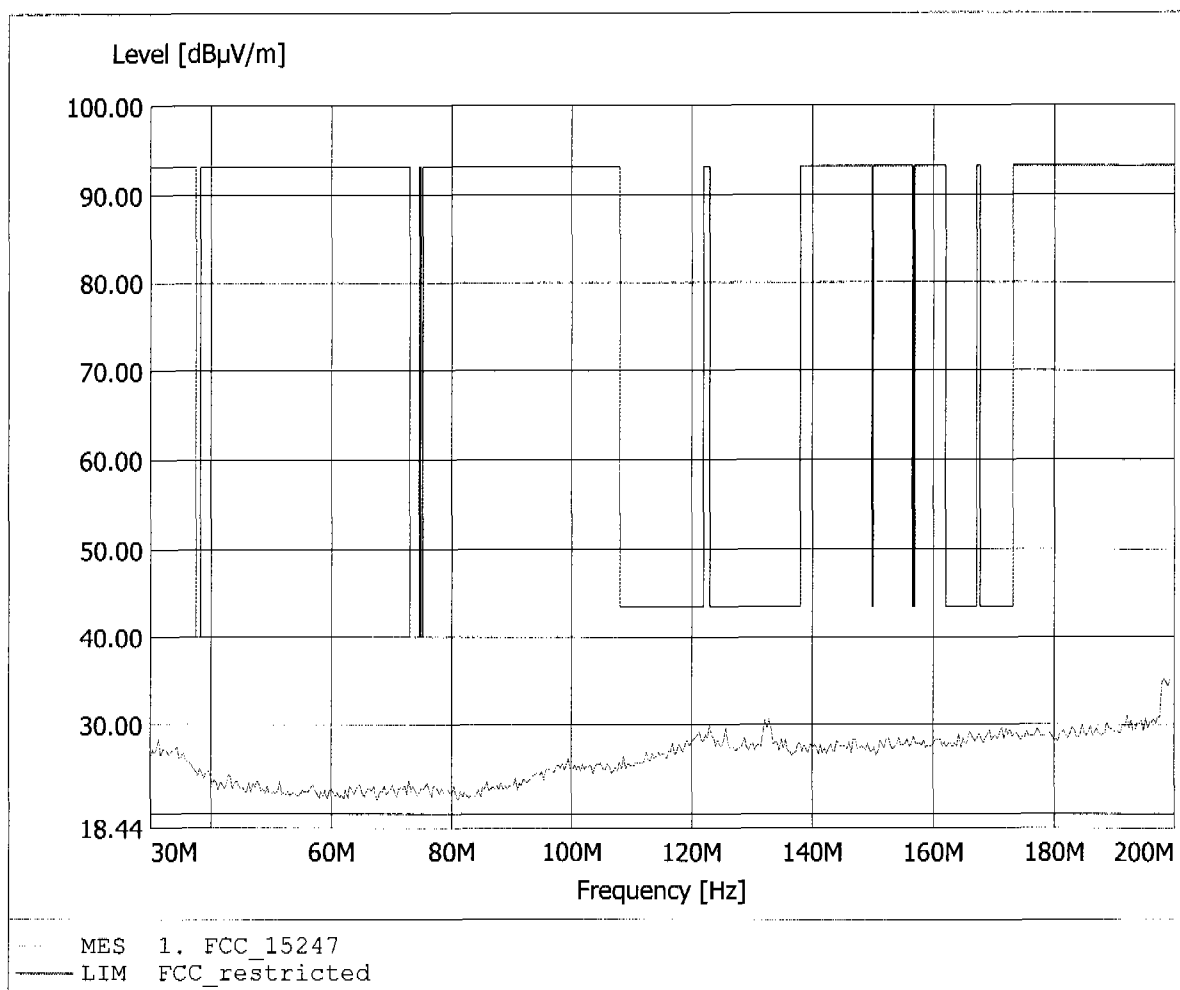
Delta 1 [T1] RBW 30 kHz RF Att 50 dB
Ref Lvl 52.35 dB VBW 30 kHz
27 dBm 1.97880685 MHz SWT 12.5 ms Unit dBm



Title: Marker-Delta Method
Comment A: HPS-120
Date: 13.FEB.2004 14:11:15

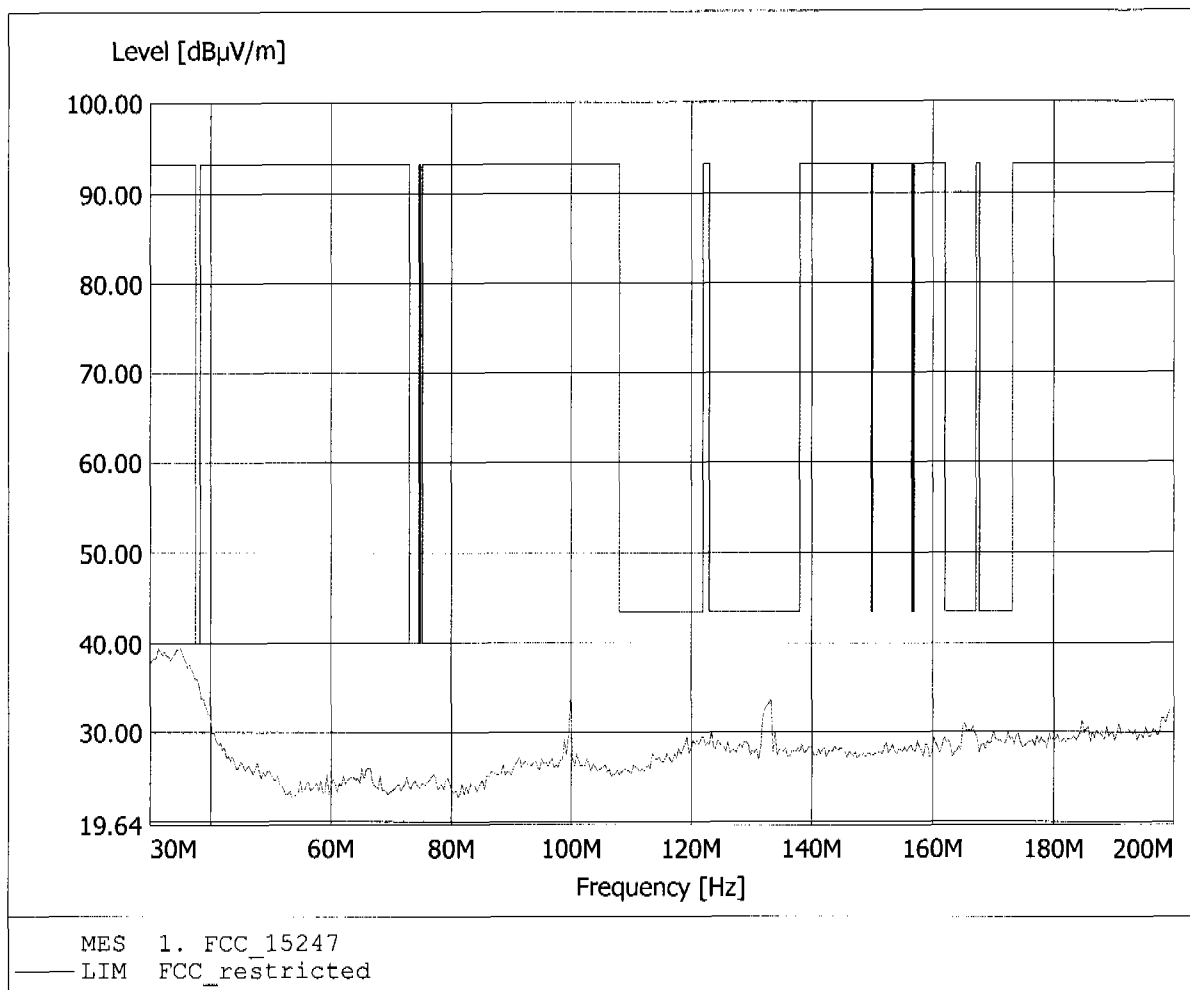
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 198.297MHz, Emax: 35.17dBµV/m, RBW: 100kHz



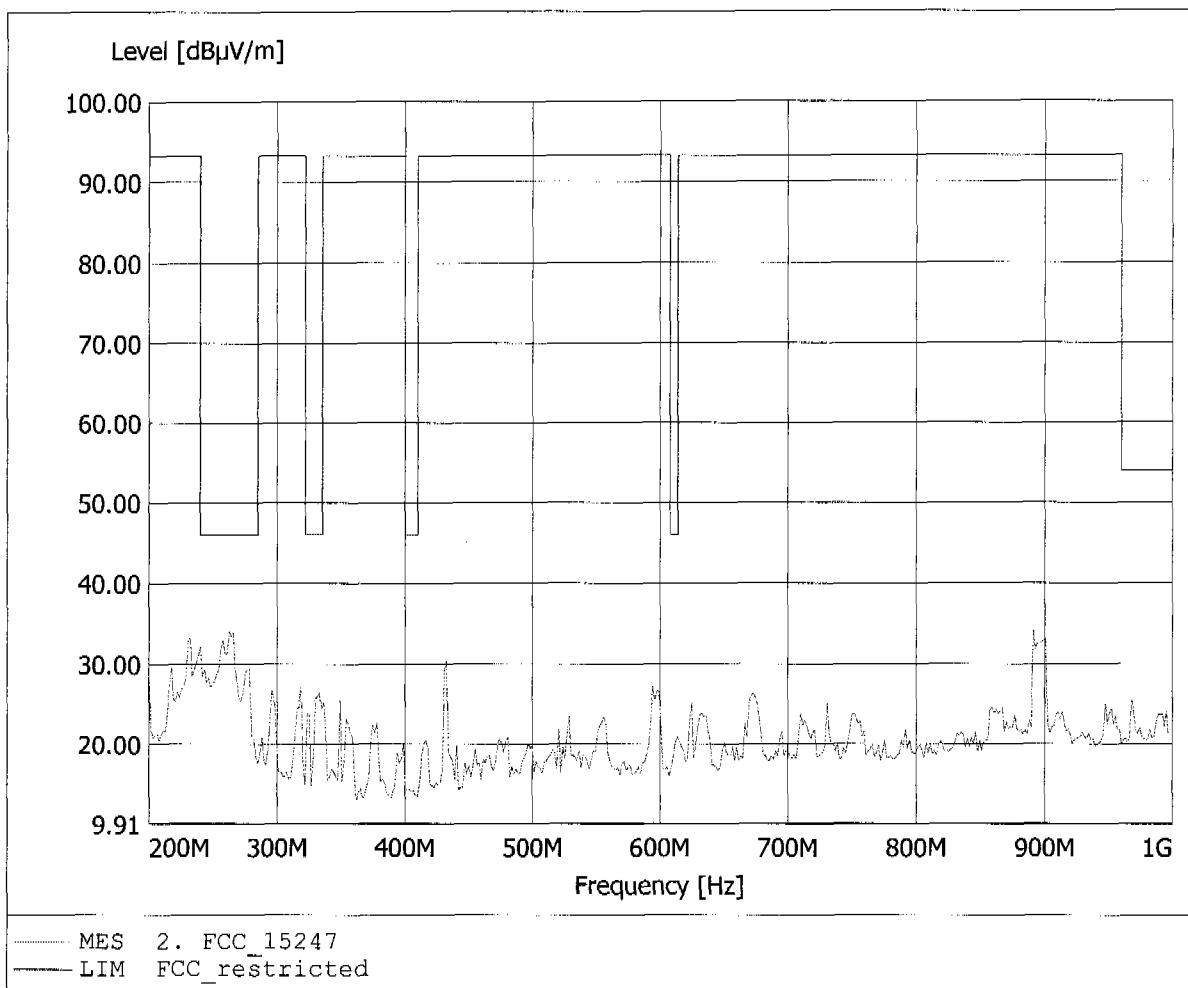
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 35.110MHz, Emax: 39.49dBuV/m, RBW: 100kHz



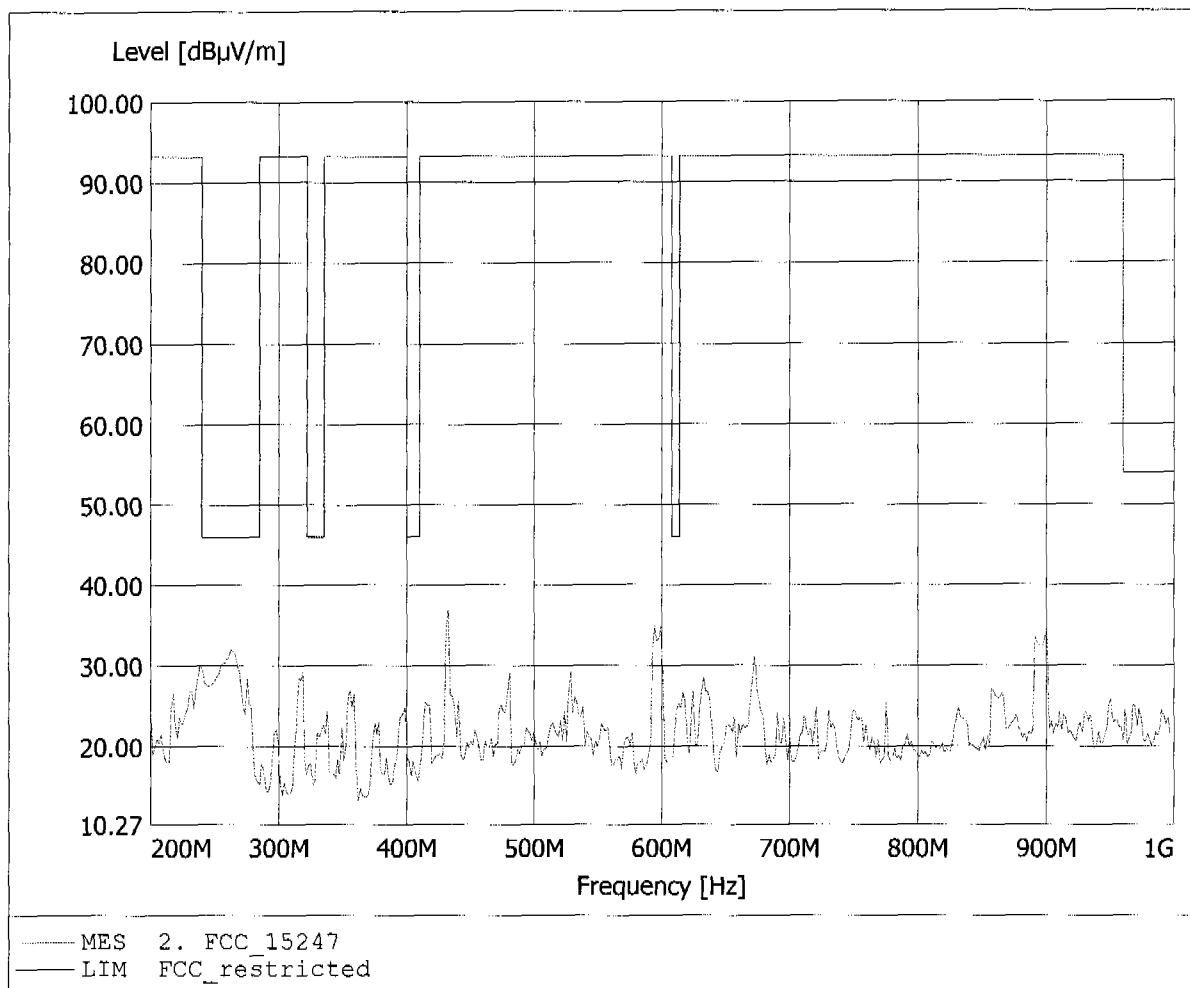
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 890.982MHz, Emax: 34.15dBµV/m, RBW: 100kHz



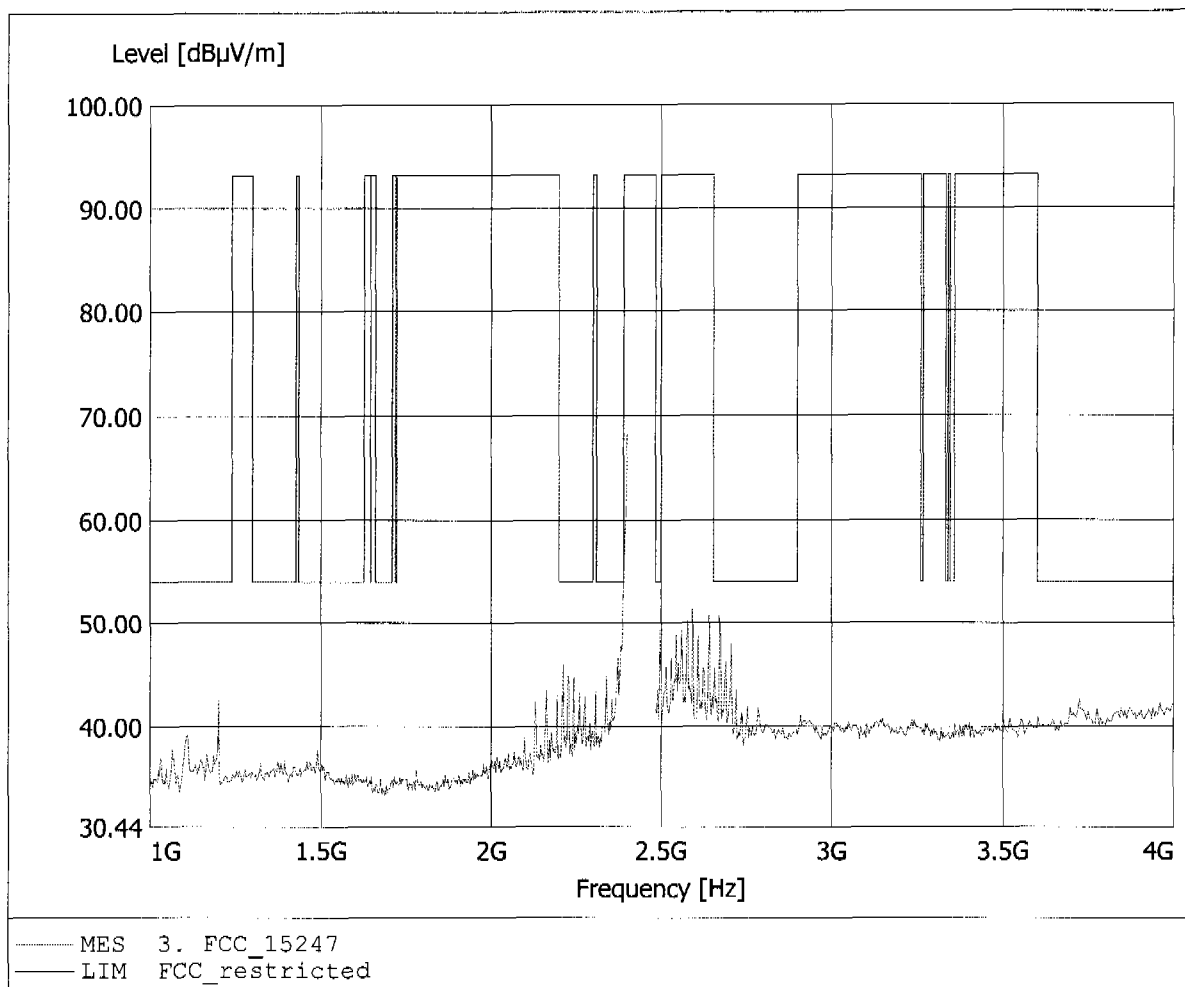
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 432.465MHz, Emax: 36.94dBµV/m, RBW: 100kHz



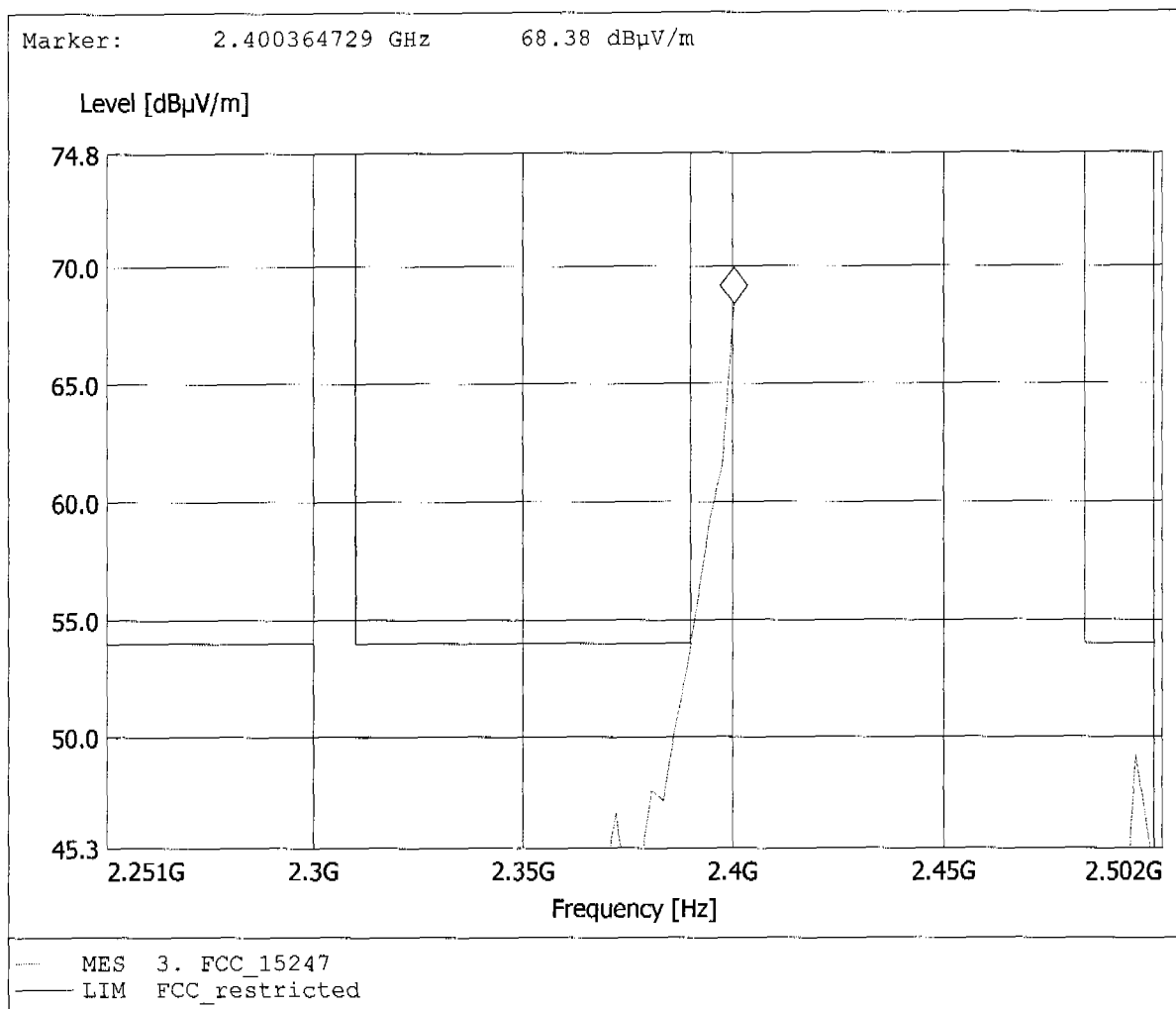
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 68.38dBµV/m, RBW: 1MHz



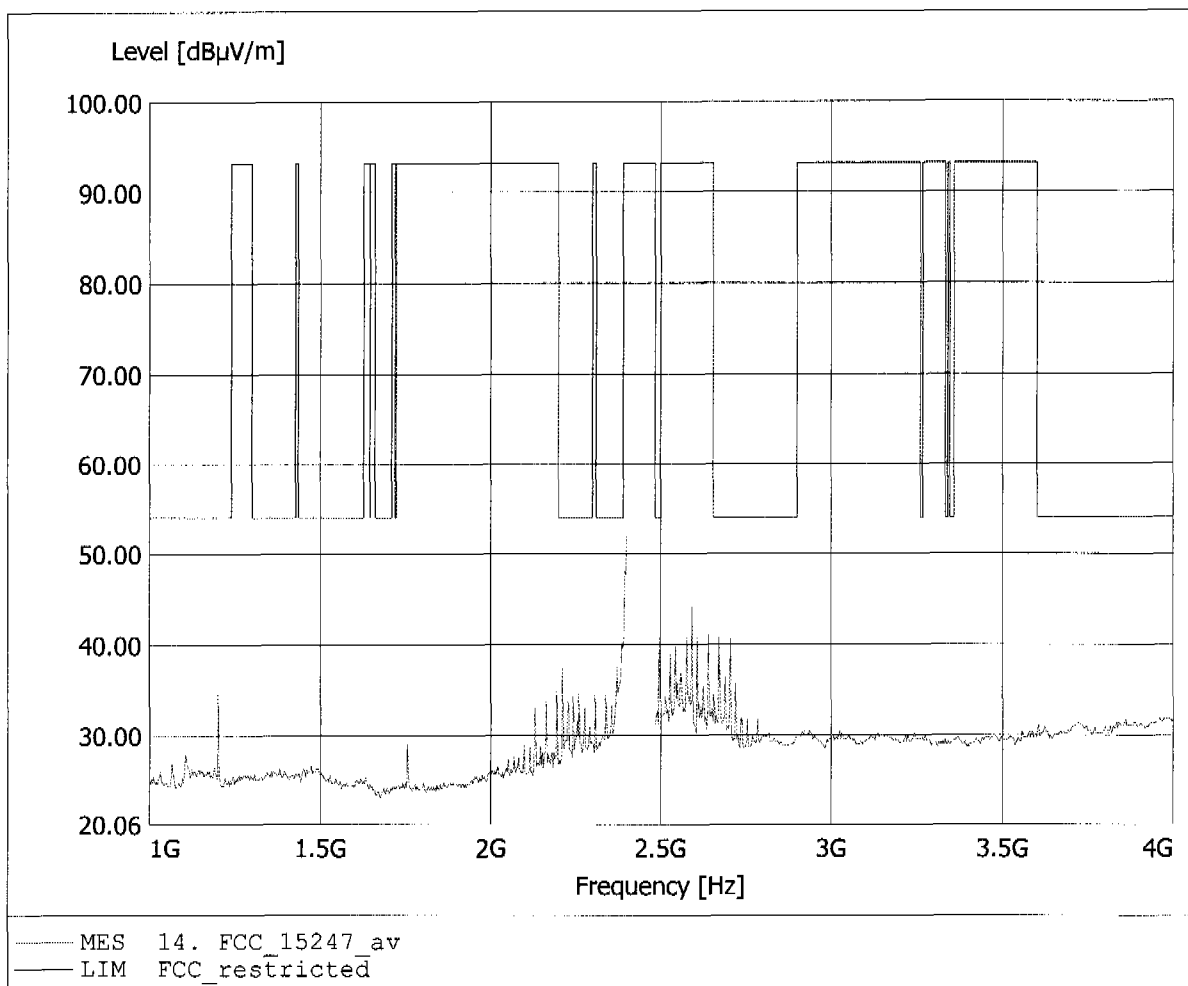
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 68.38dBμV/m, RBW: 1MHz



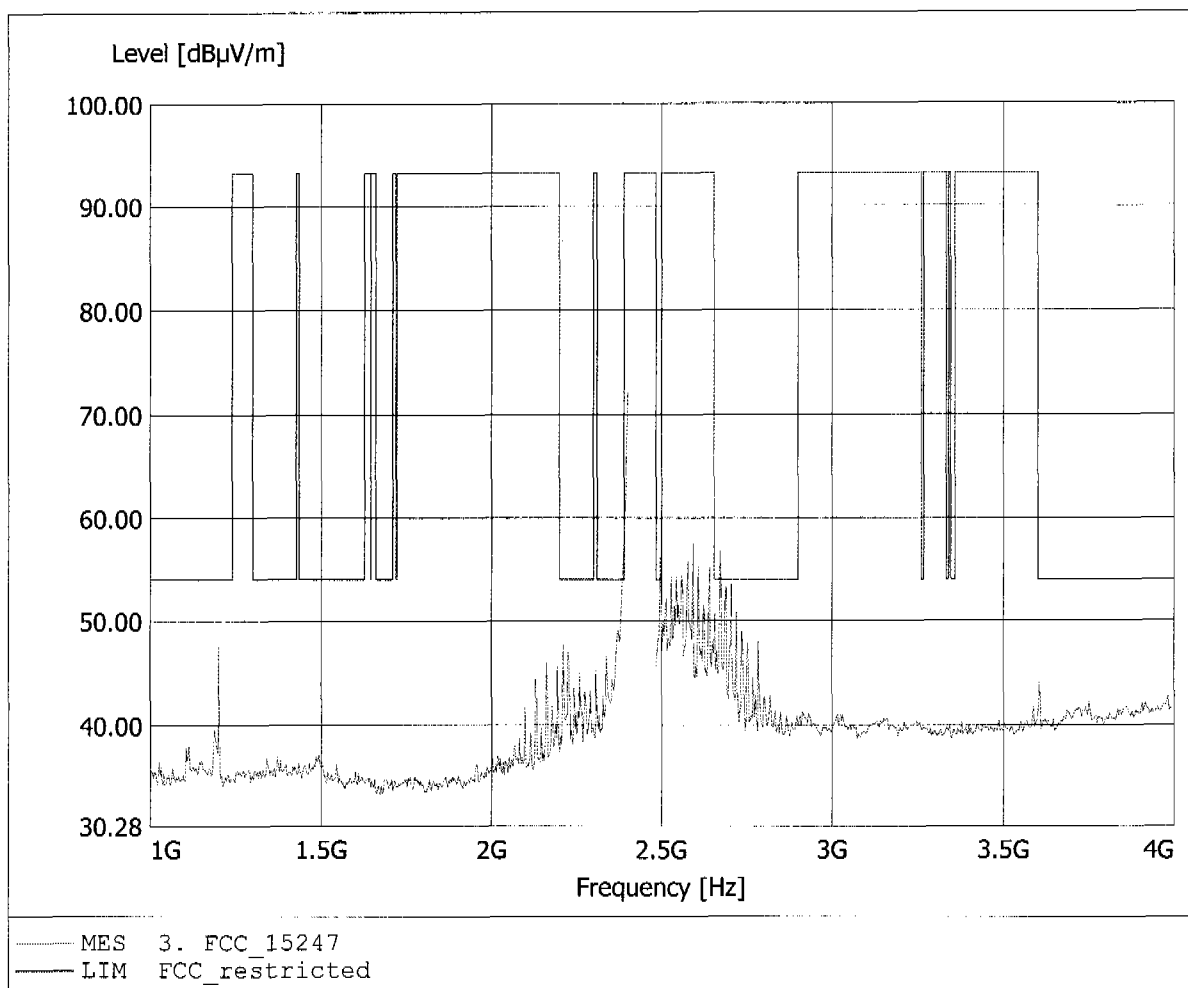
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 51.92dBμV/m, RBW: 1MHz



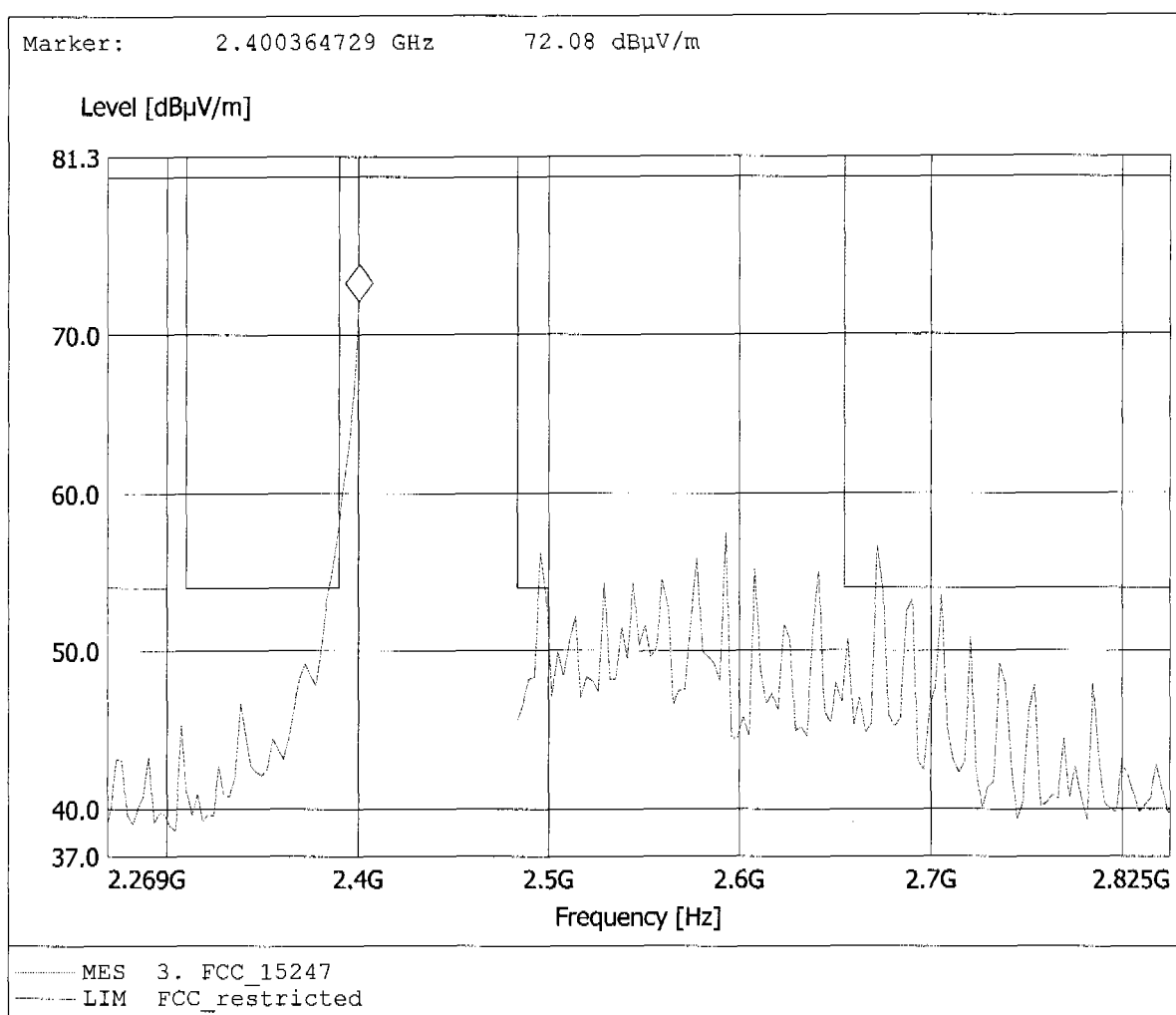
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 72.08dBμV/m, RBW: 1MHz



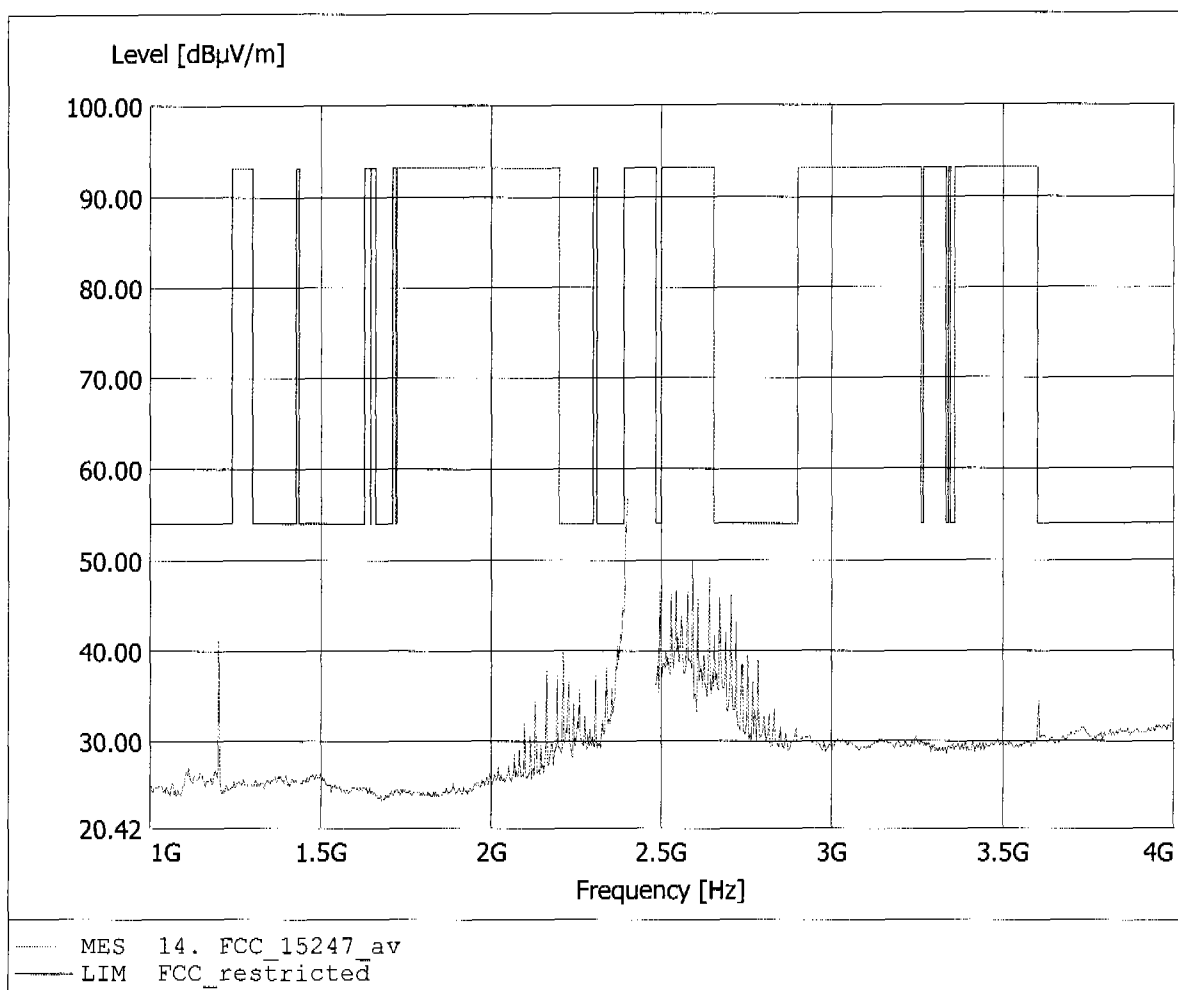
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 72.08dBμV/m, RBW: 1MHz



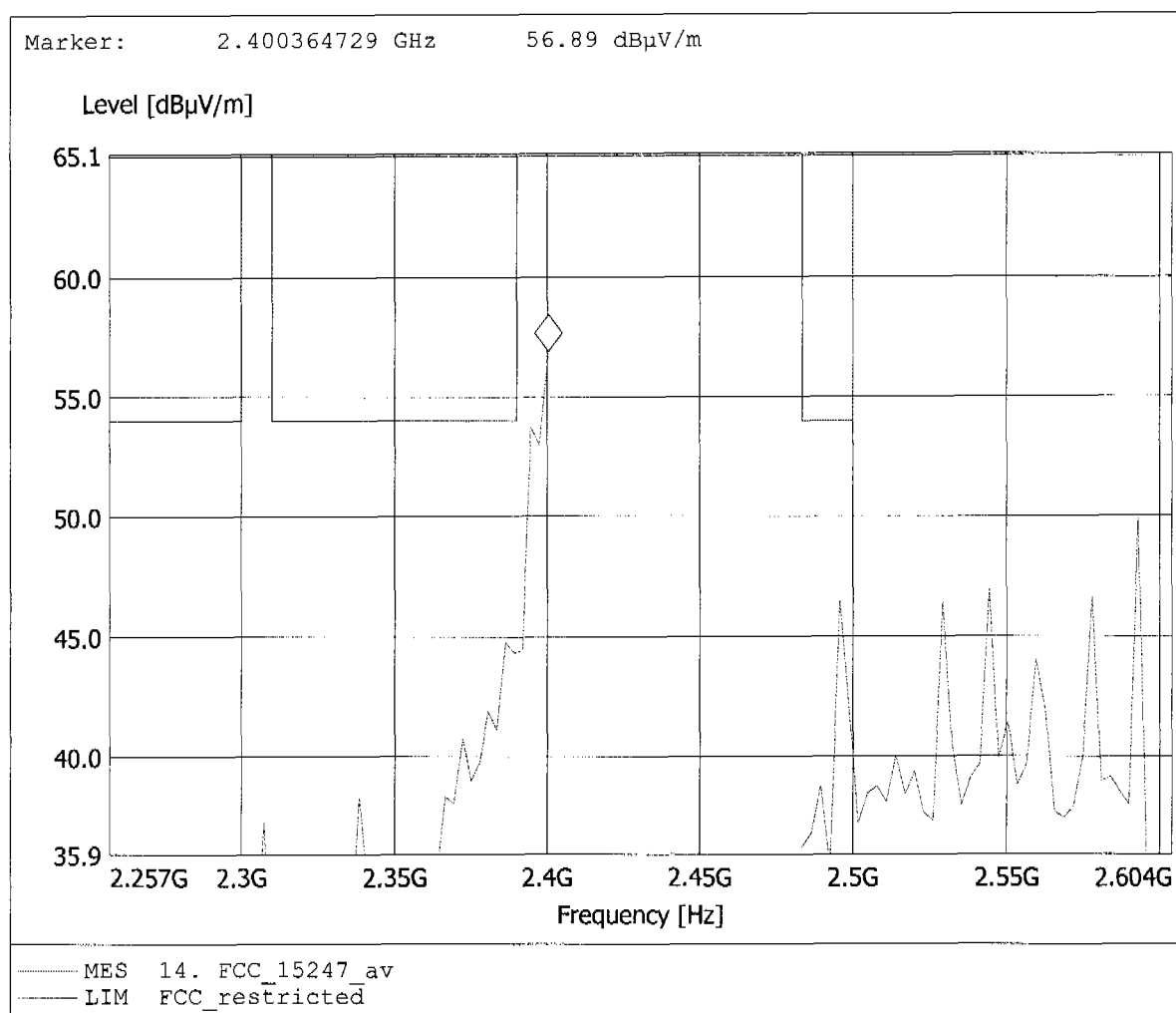
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 56.89dBµV/m, RBW: 1MHz



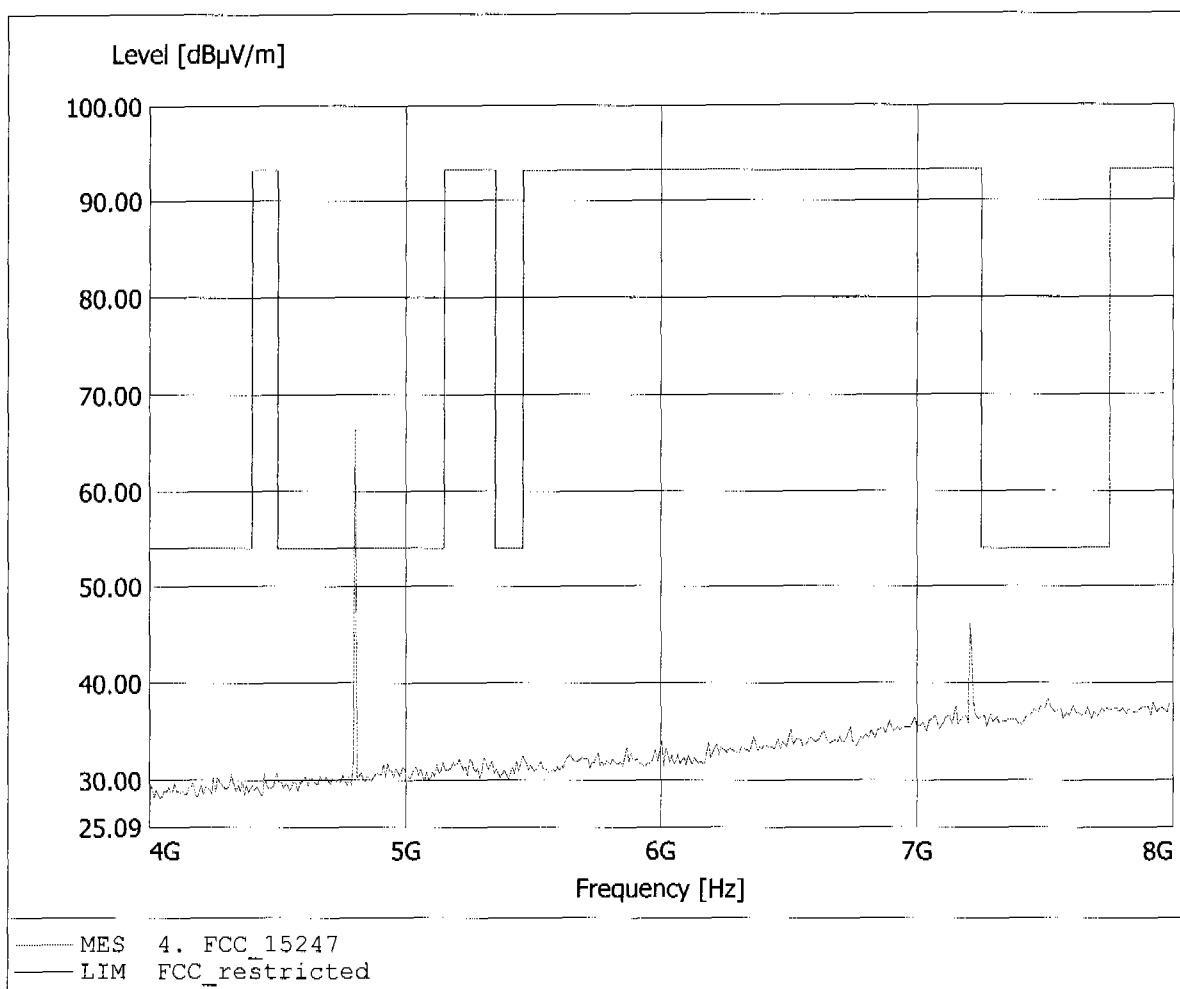
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 56.89dBµV/m, RBW: 1MHz



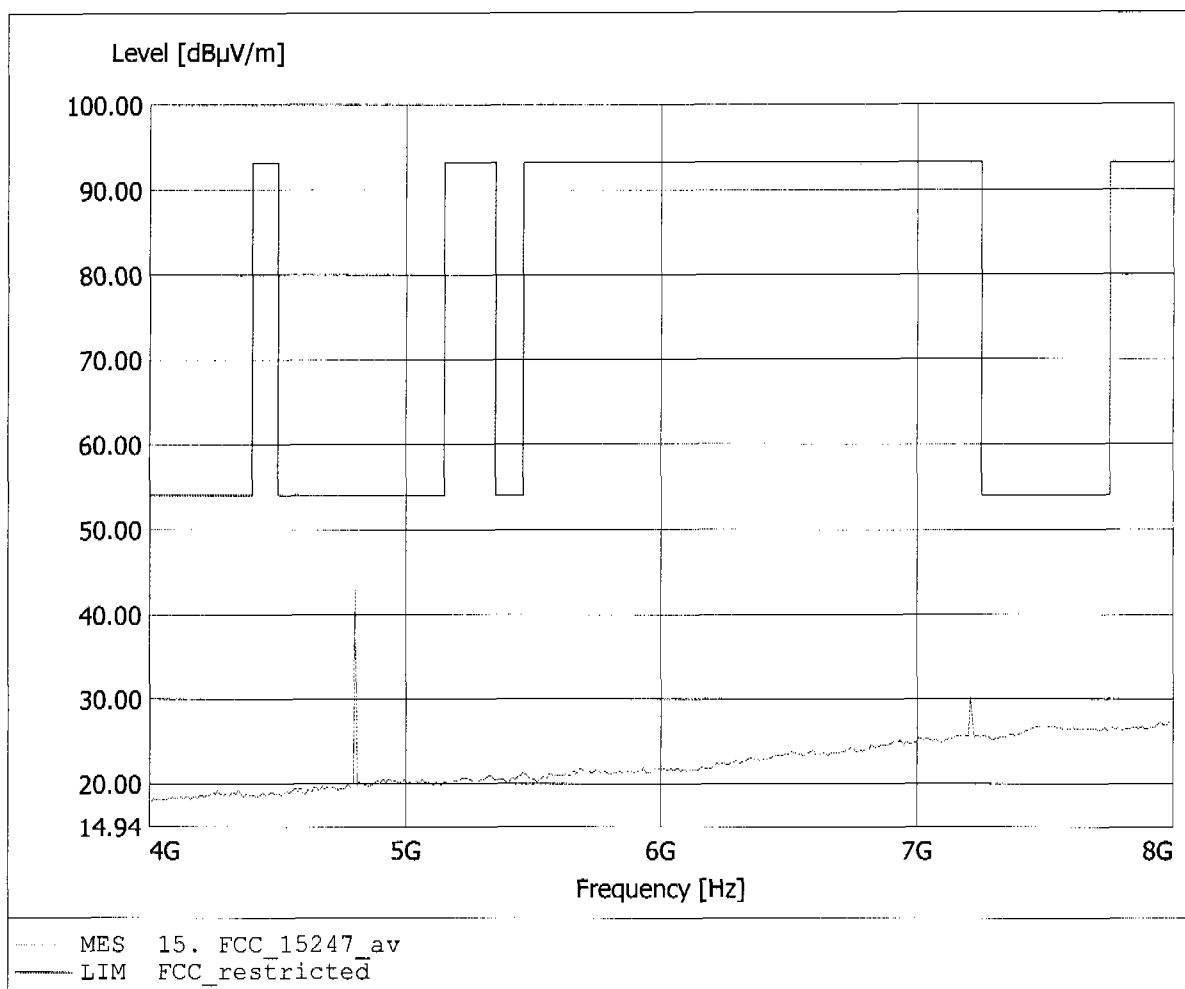
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.802GHz, Emax: 66.42dBμV/m, RBW: 1MHz



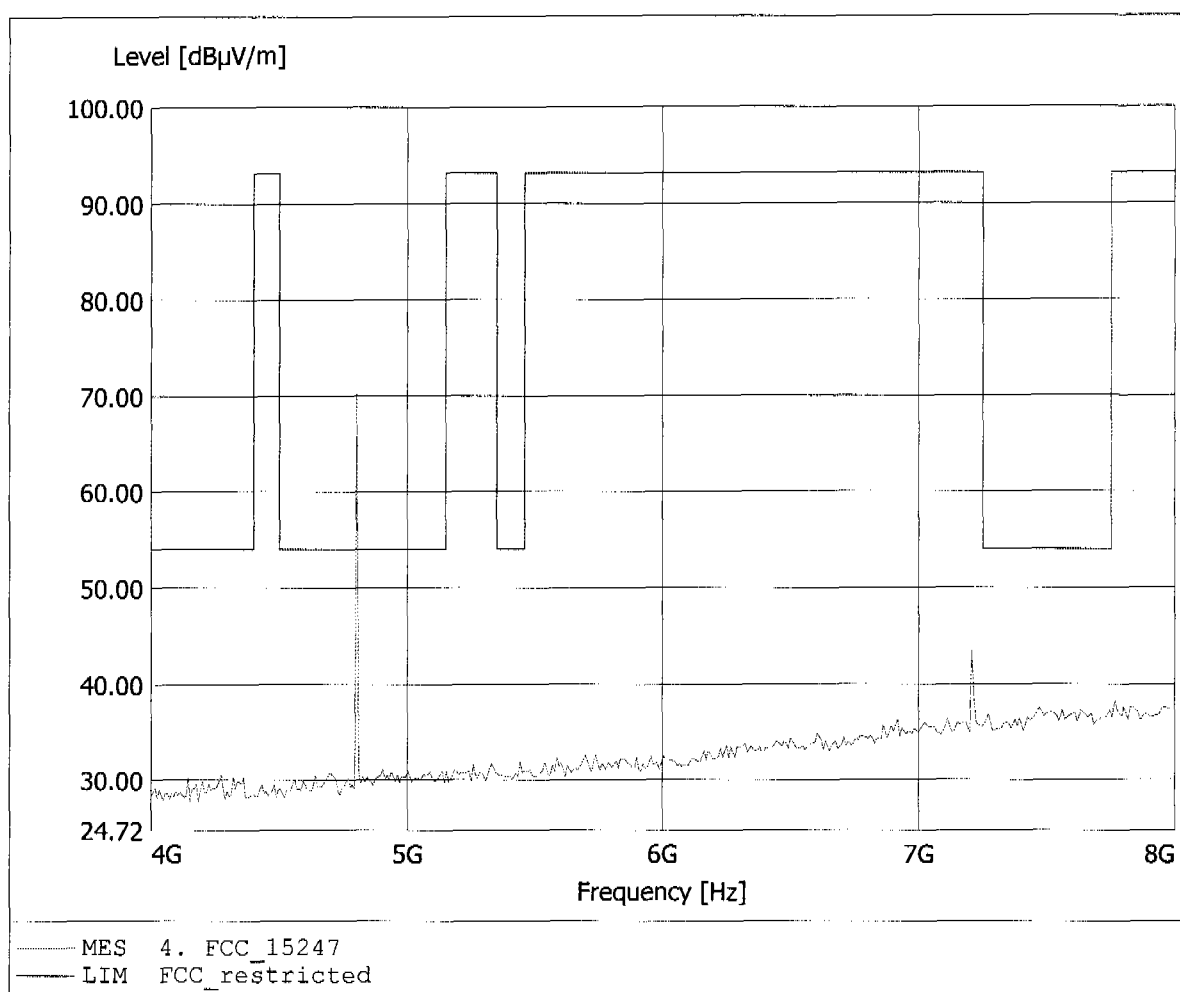
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.802GHz, Emax: 42.98dBμV/m, RBW: 1MHz



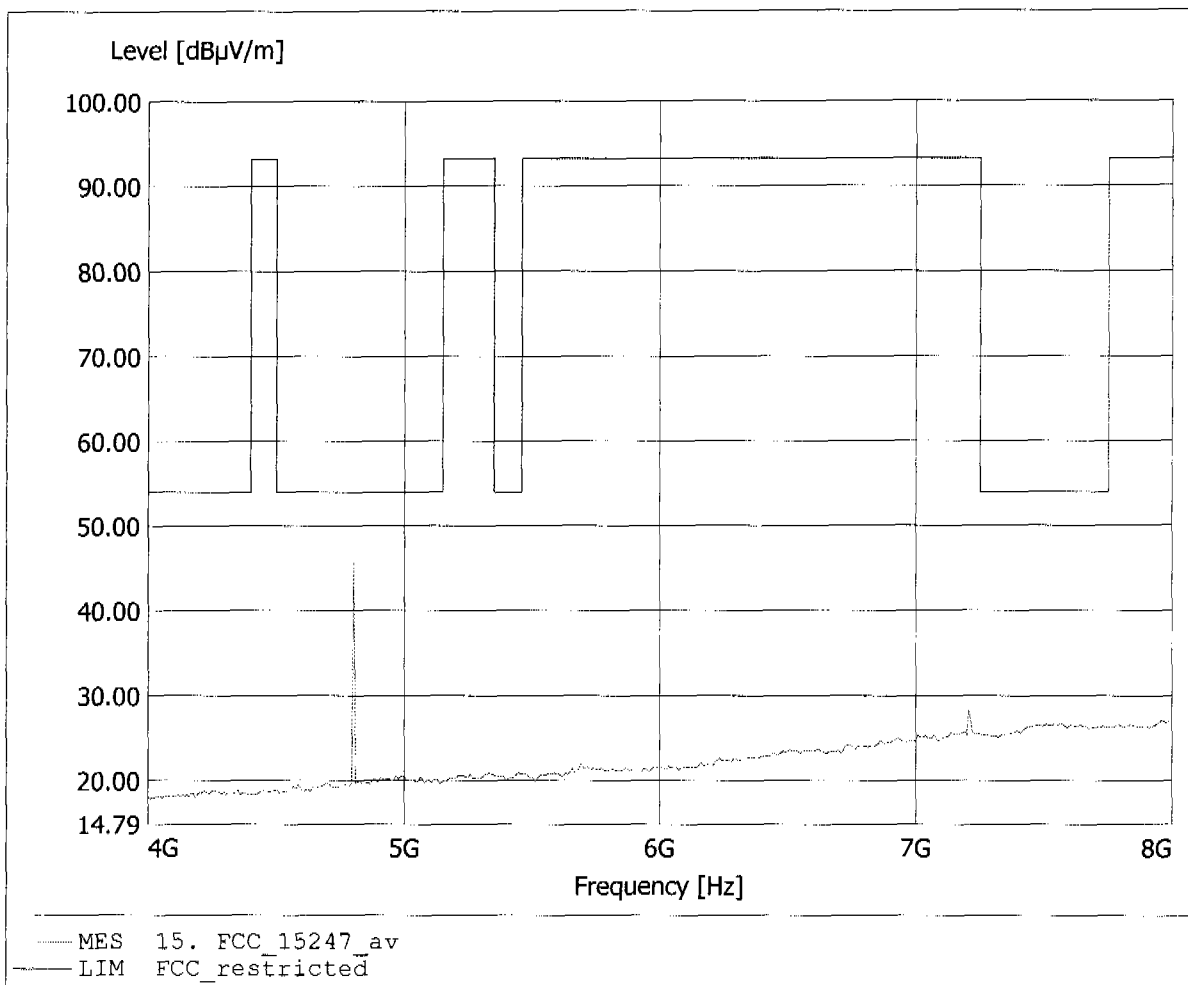
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.802GHz, Emax: 70.35dBμV/m, RBW: 1MHz



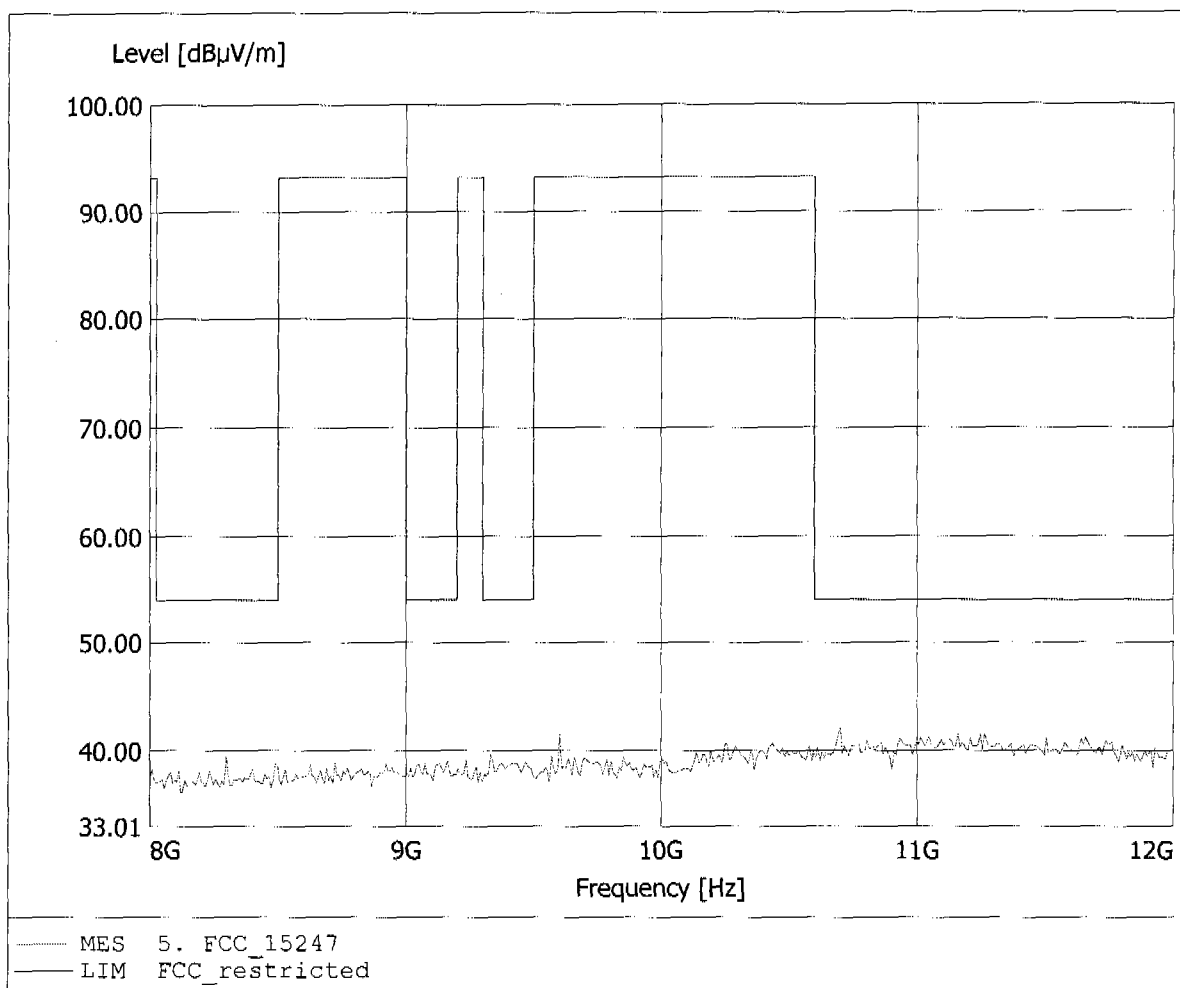
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.802GHz, Emax: 45.84dBμV/m, RBW: 1MHz



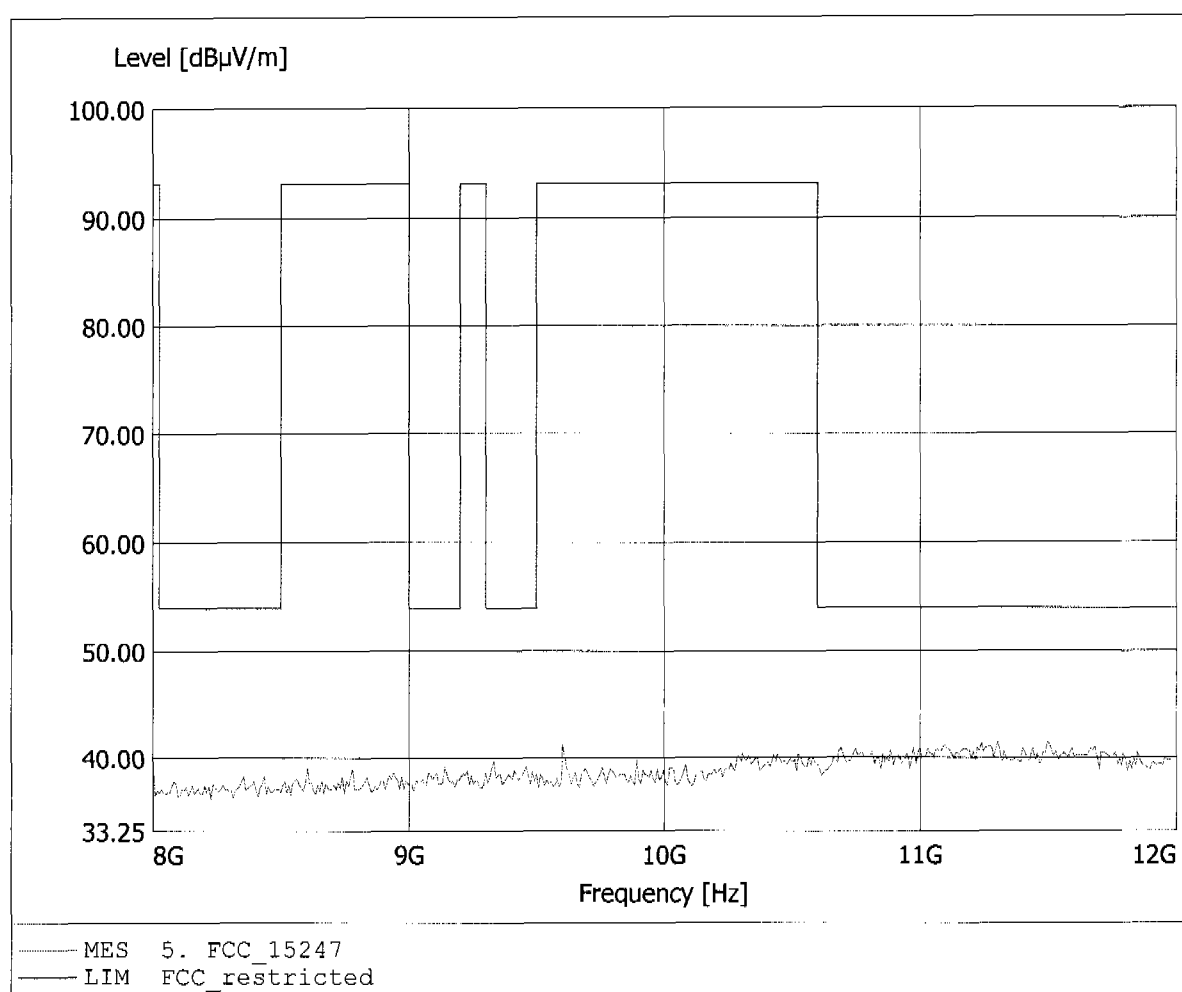
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 10.701GHz, Emax: 42.24dBμV/m, RBW: 1MHz



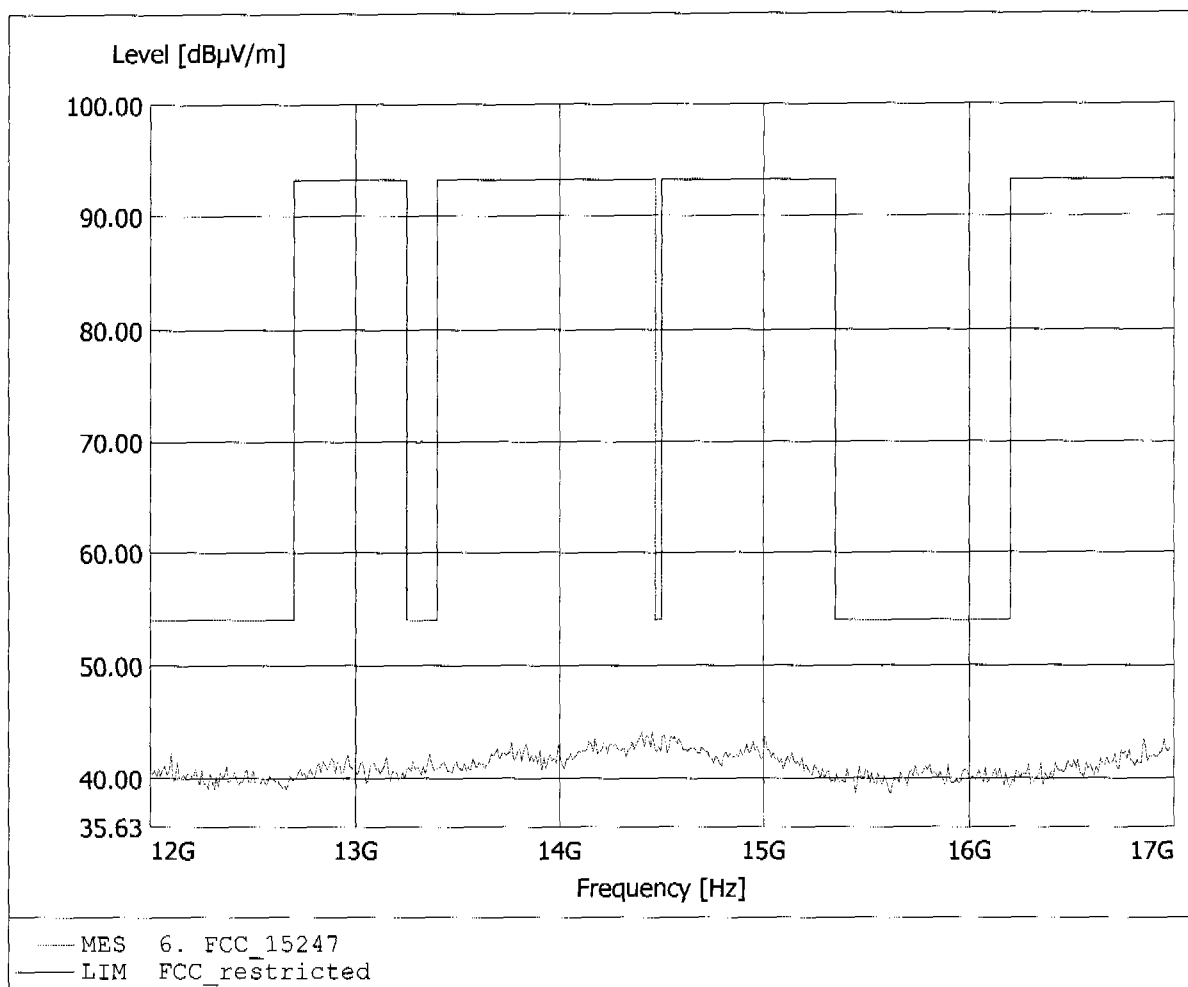
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.303GHz, Emax: 41.47dBμV/m, RBW: 1MHz



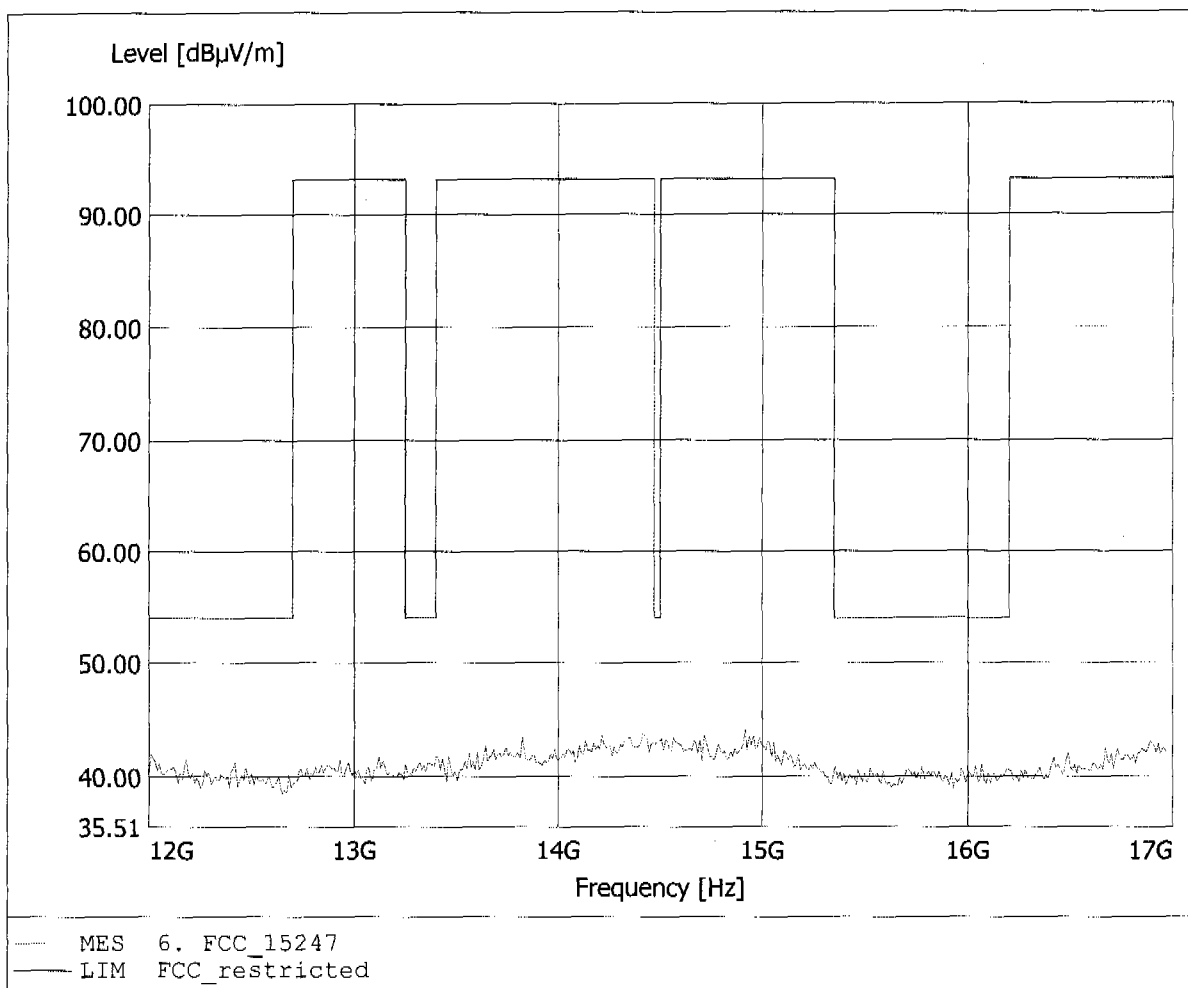
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.455GHz, Emax: 44.17dBµV/m, RBW: 1MHz



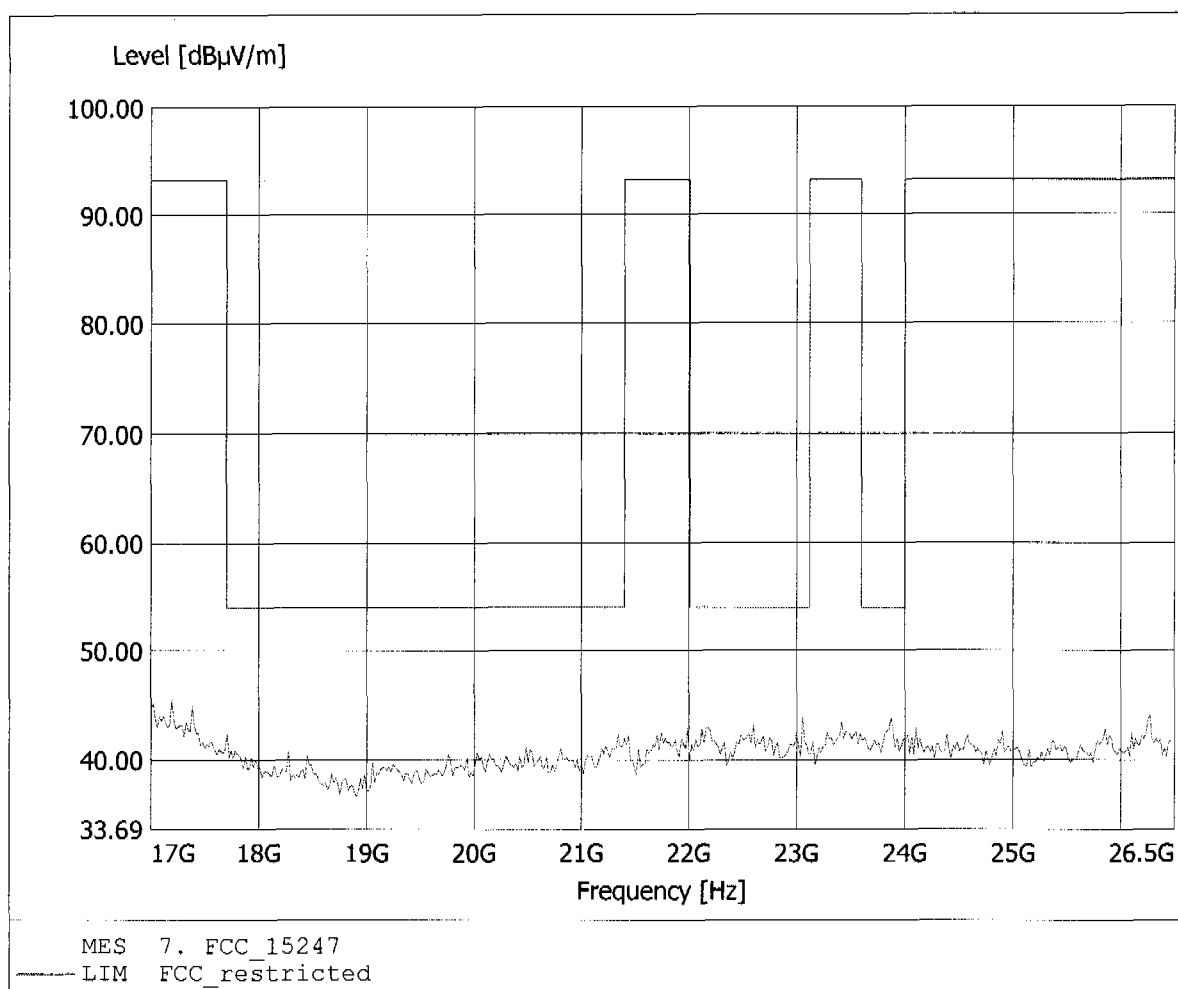
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.916GHz, Emax: 44.18dBμV/m, RBW: 1MHz



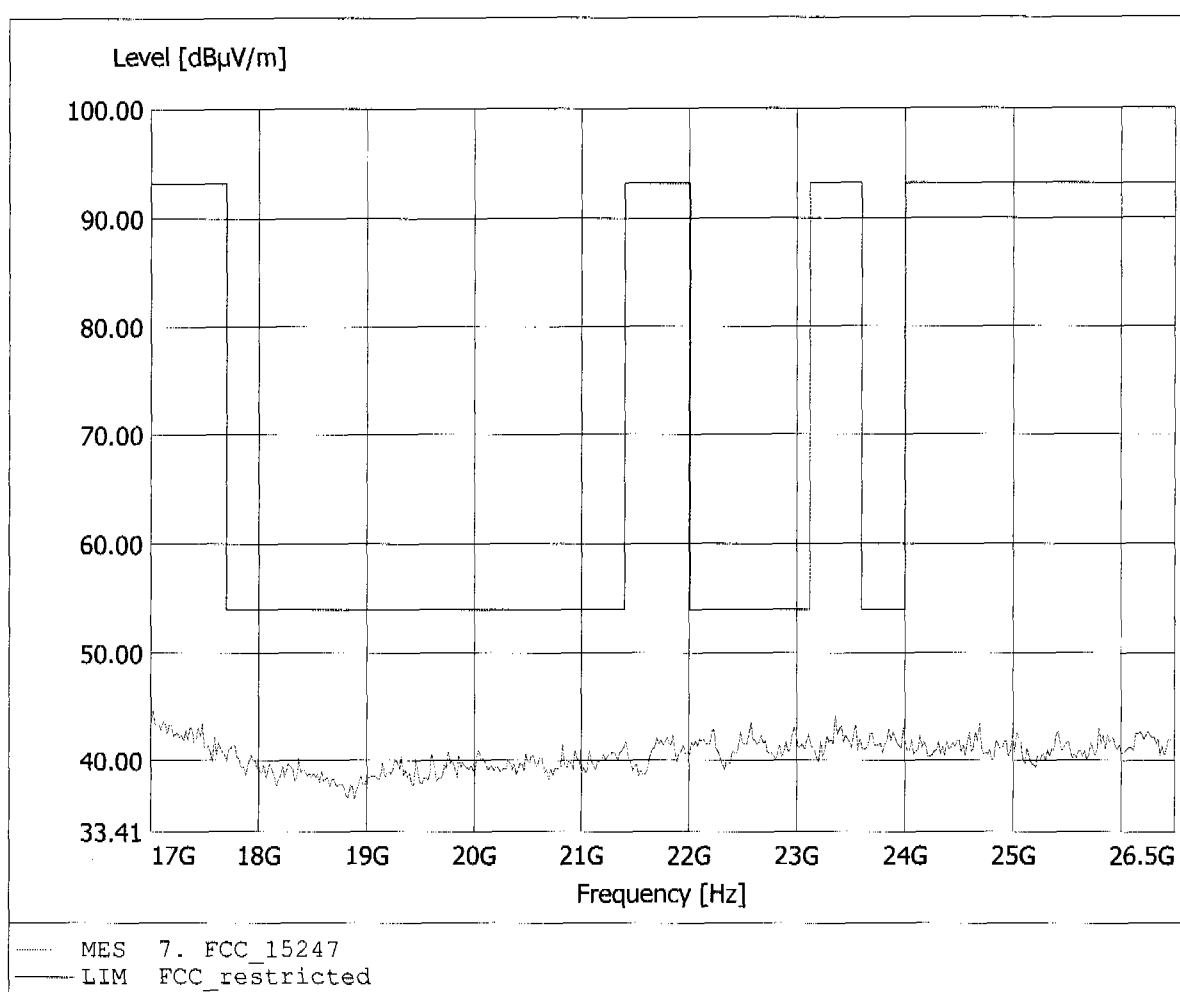
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 17.190GHz, Emax: 45.45dBµV/m, RBW: 1MHz



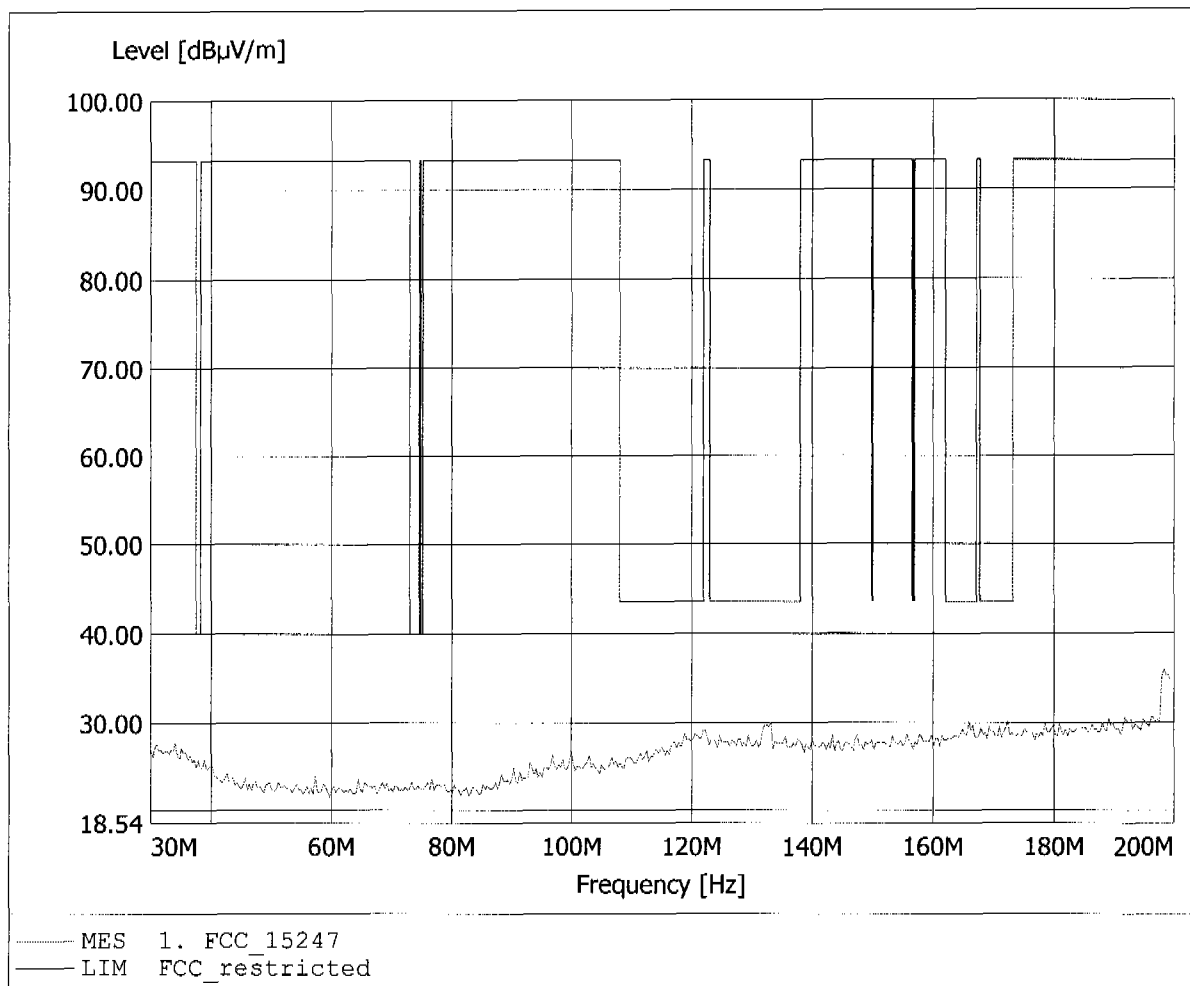
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2402 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 17.019GHz, Emax: 44.65dBμV/m, RBW: 1MHz



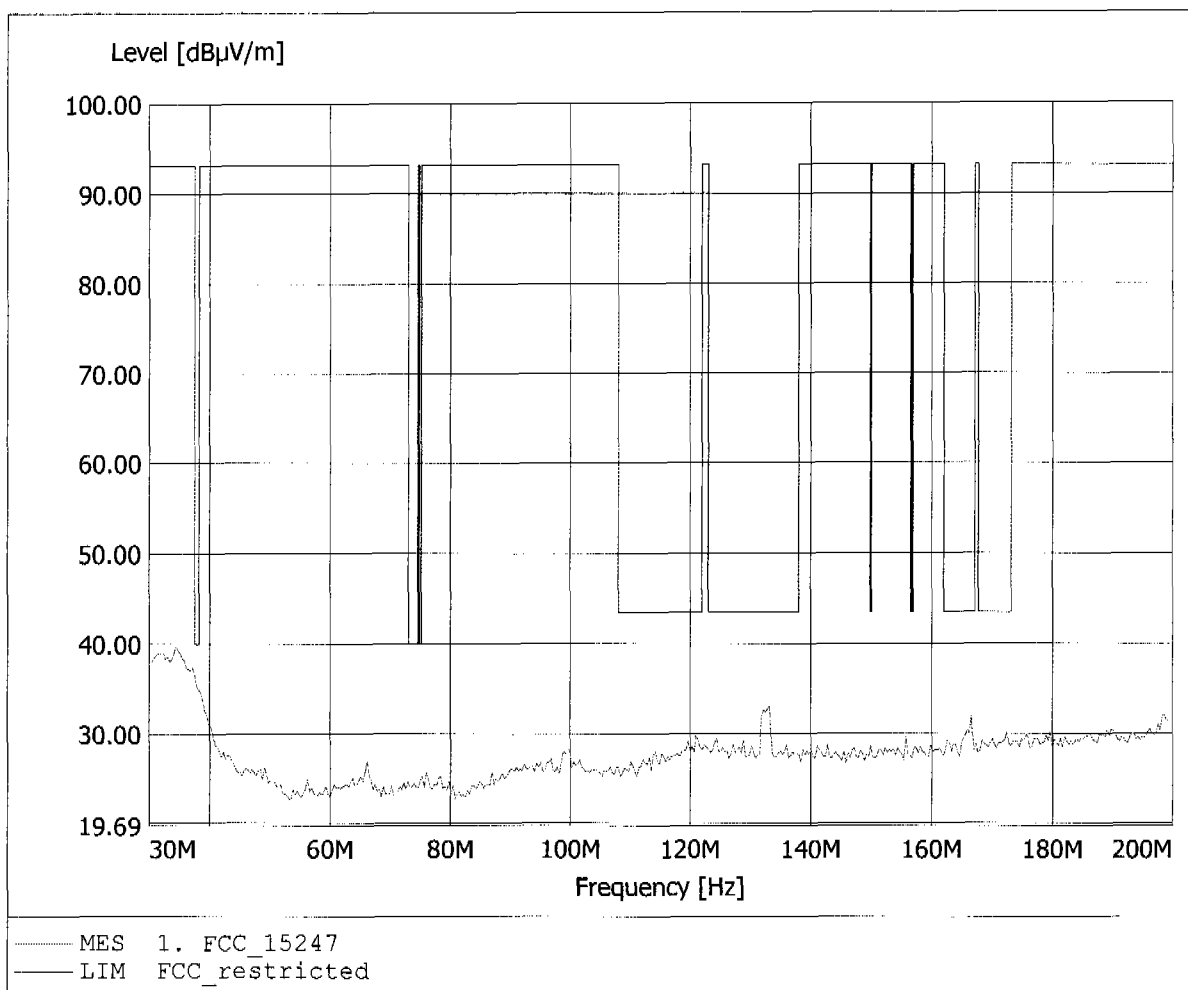
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 198.297MHz, Emax: 36.00dBµV/m, RBW: 100kHz



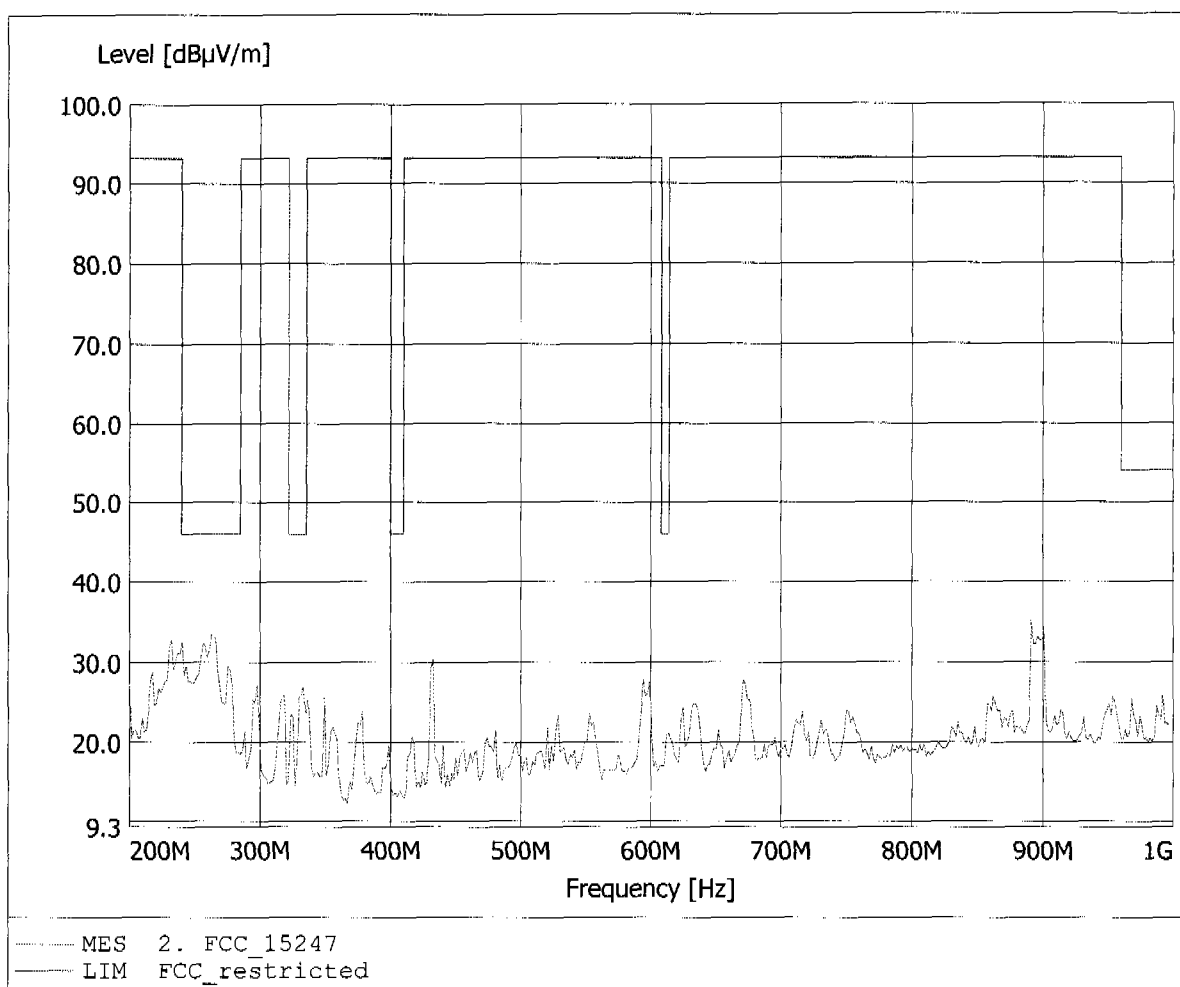
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 34.429MHz, Emax: 39.74dBµV/m, RBW: 100kHz



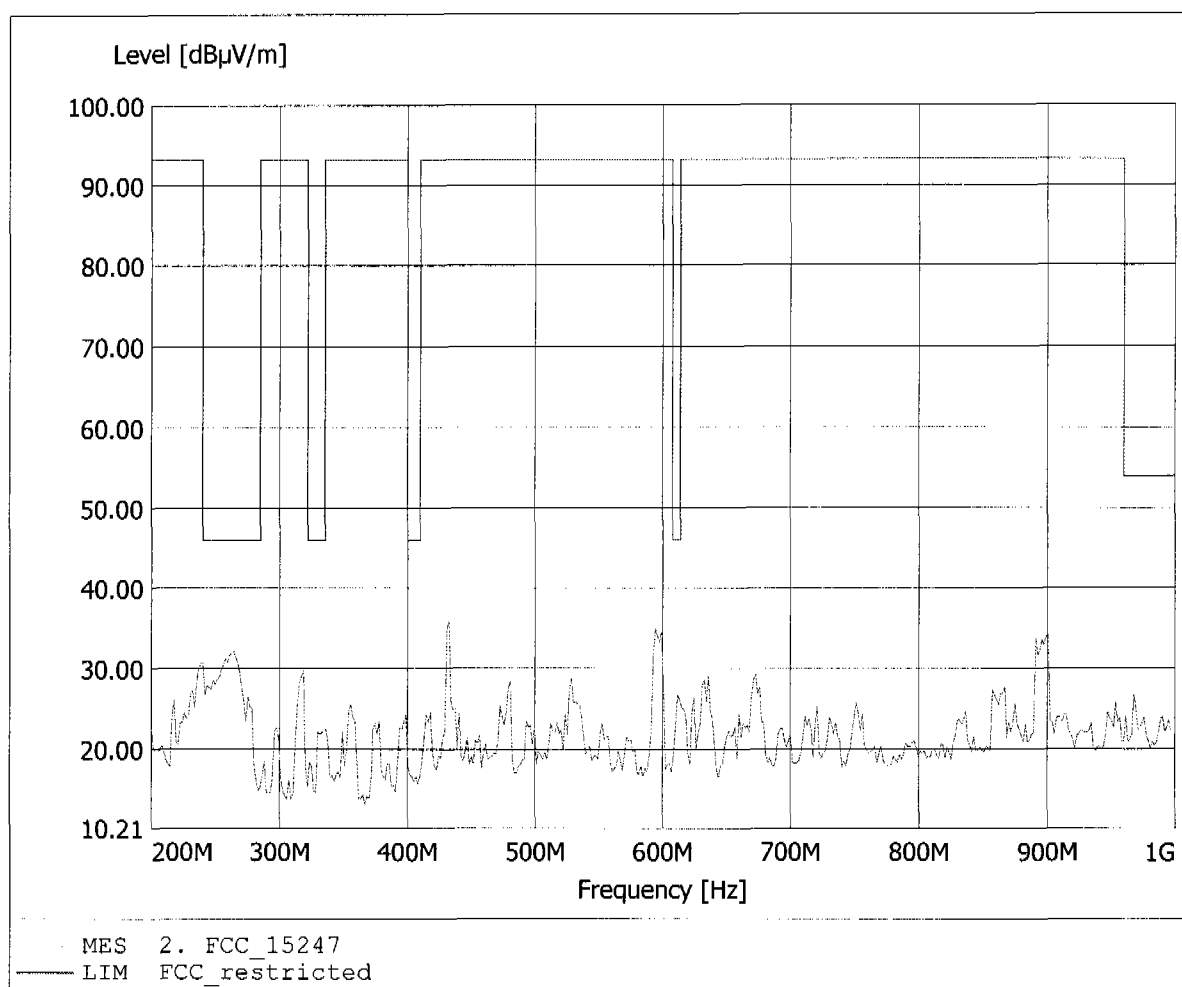
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 890.982MHz, Emax: 35.16dBµV/m, RBW: 100kHz



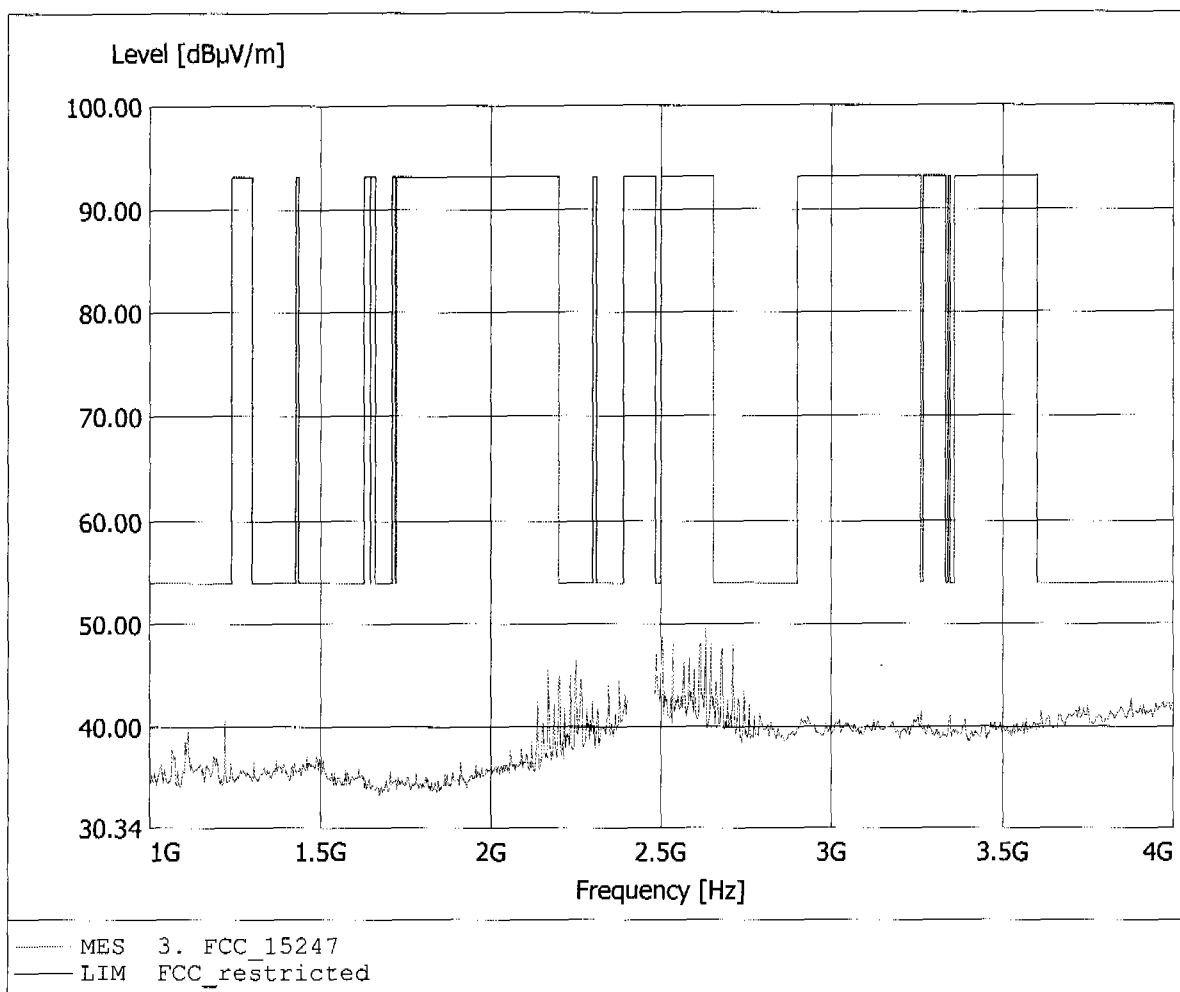
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 432.465MHz, Emax: 36.01dBµV/m, RBW: 100kHz



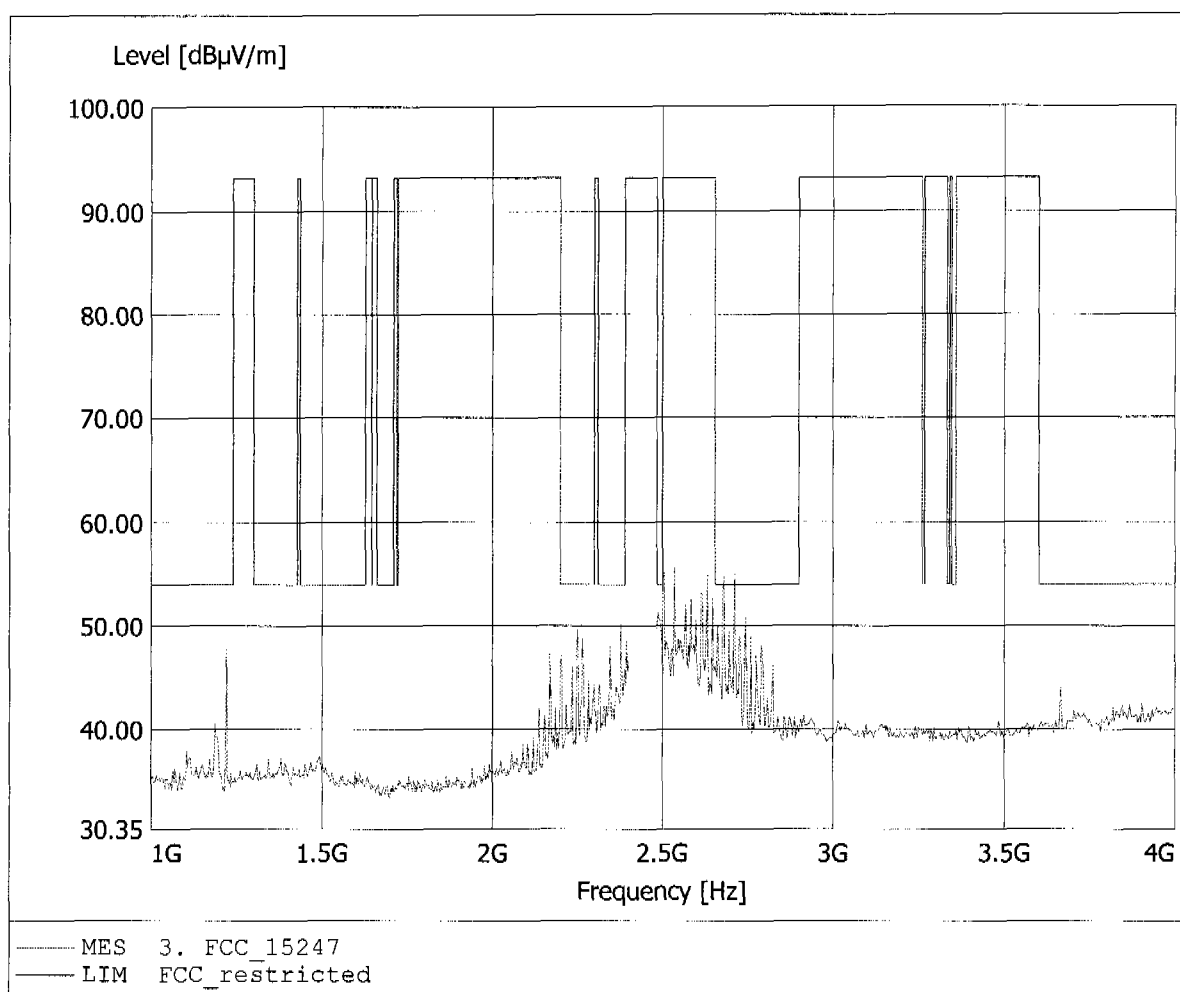
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.632GHz, Emax: 49.46dBμV/m, RBW: 1MHz



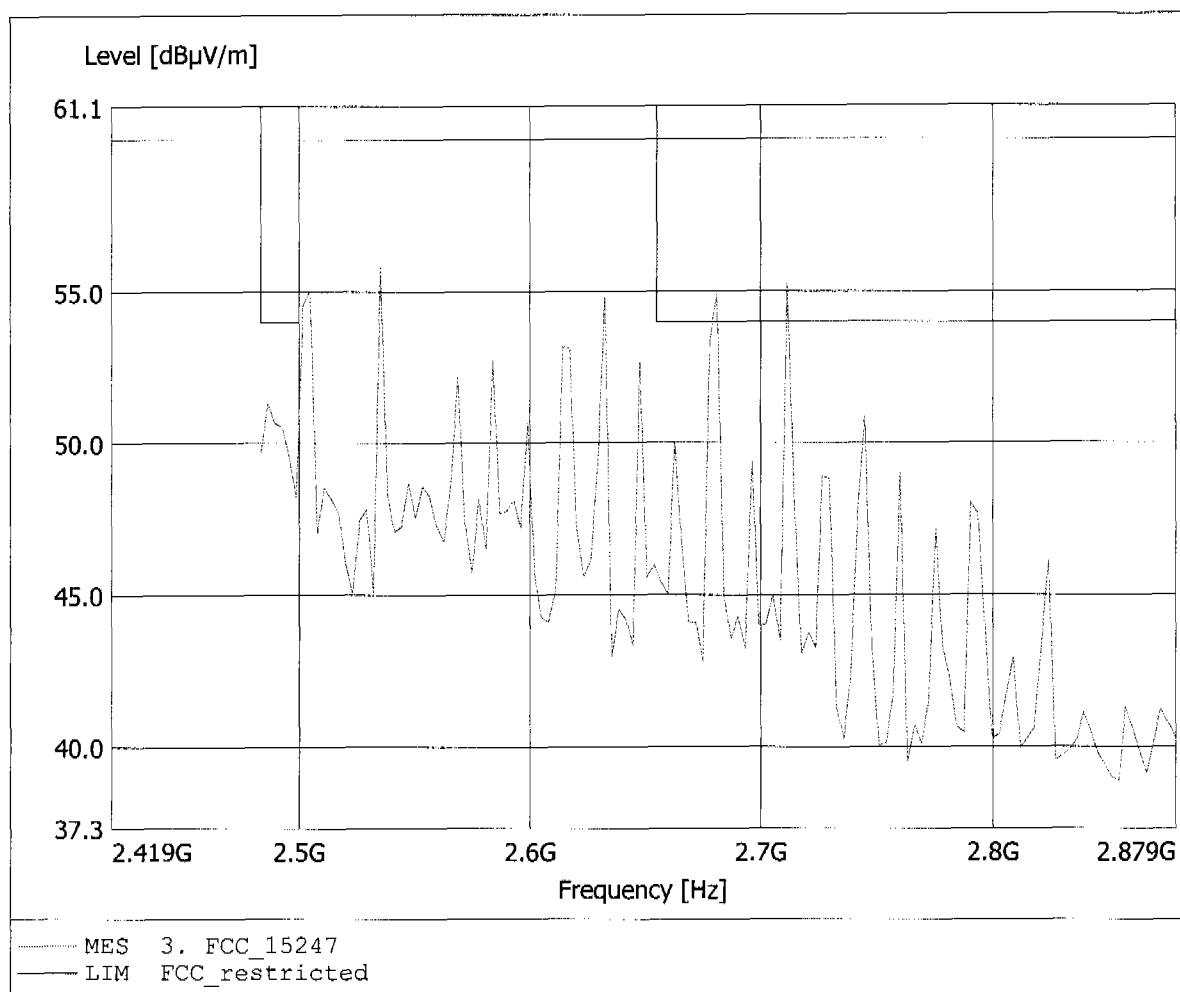
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.535GHz, Emax: 55.78dBμV/m, RBW: 1MHz



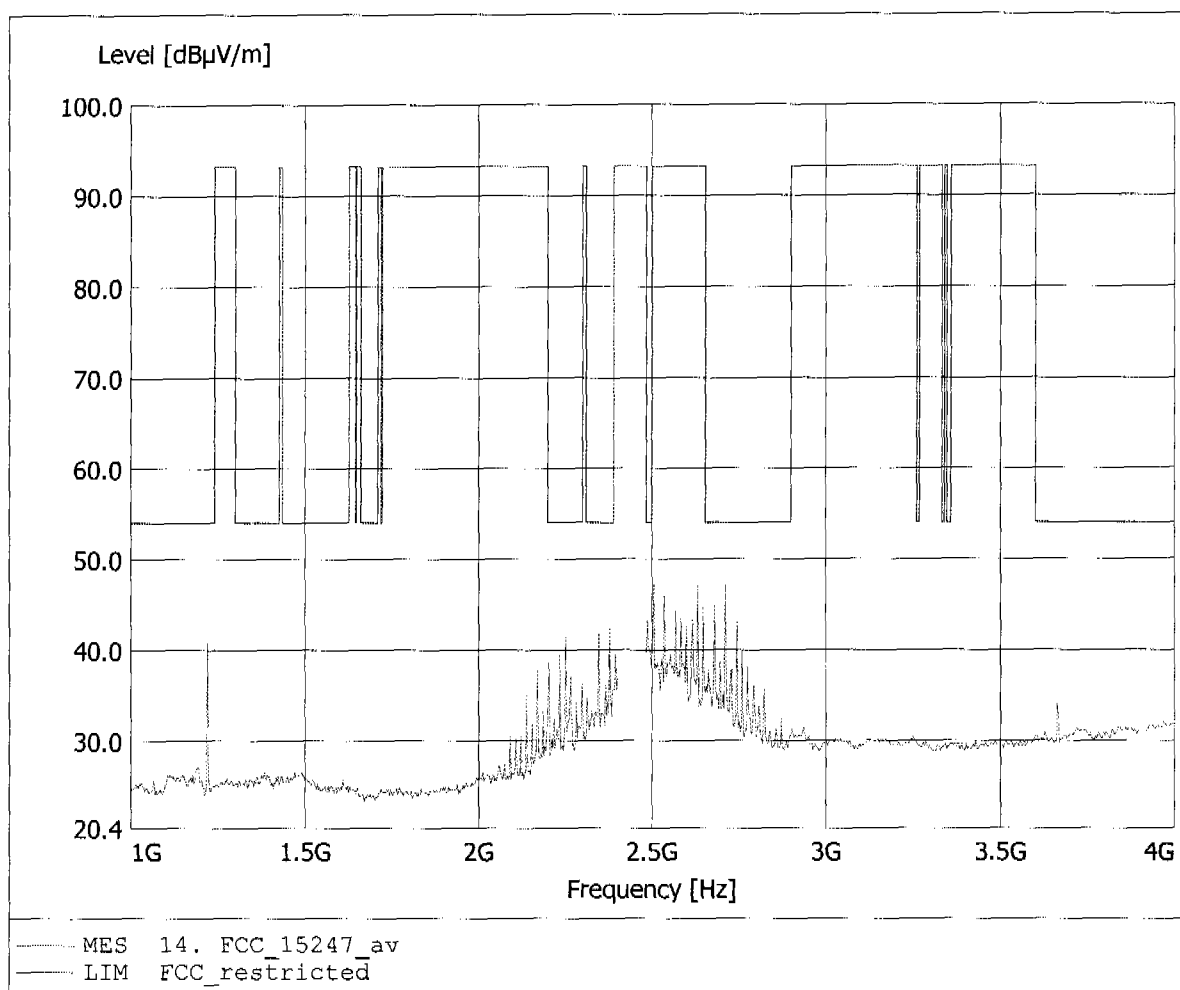
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.535GHz, Emax: 55.78dBμV/m, RBW: 1MHz



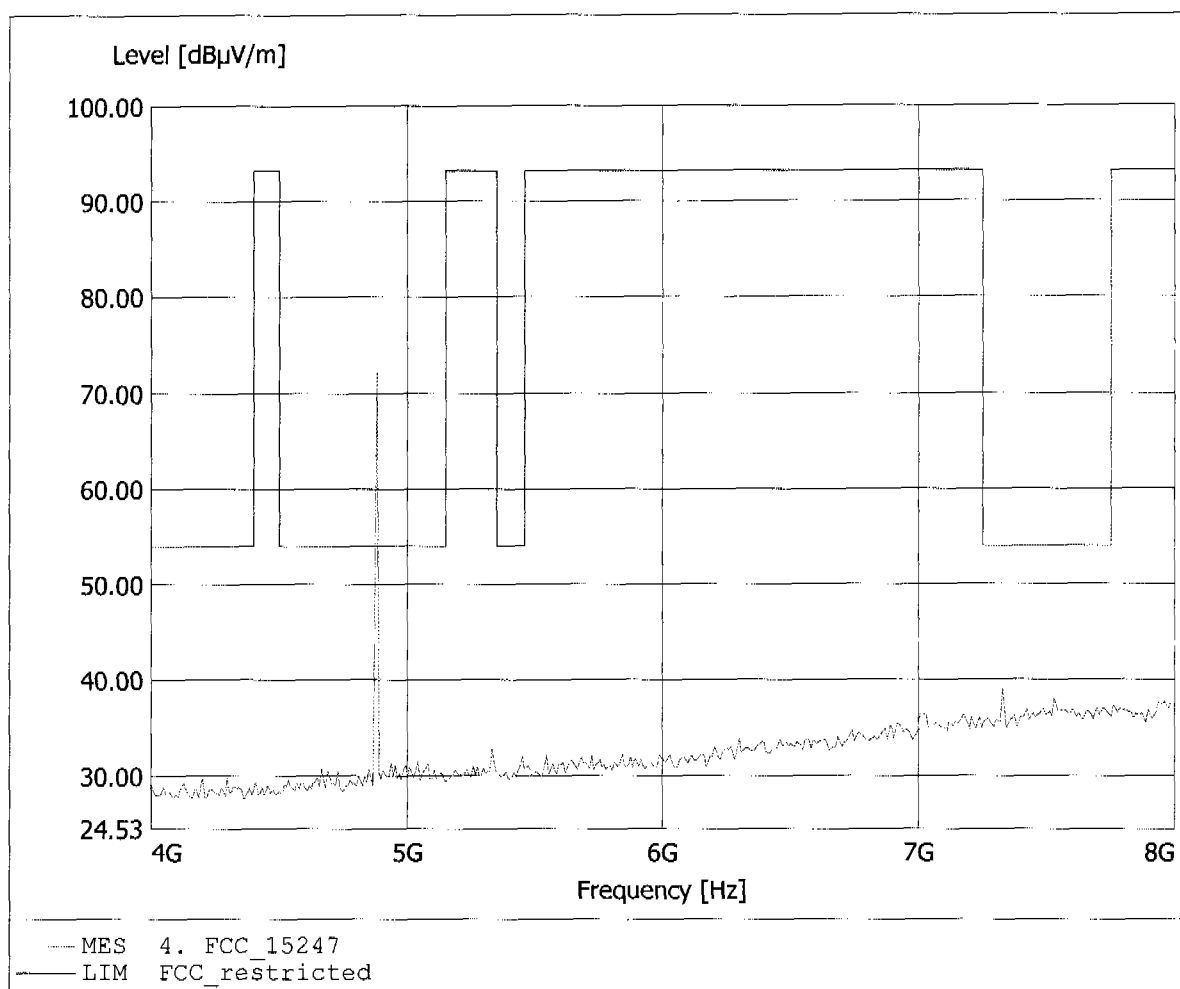
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.505GHz, Emax: 47.26dBμV/m, RBW: 1MHz



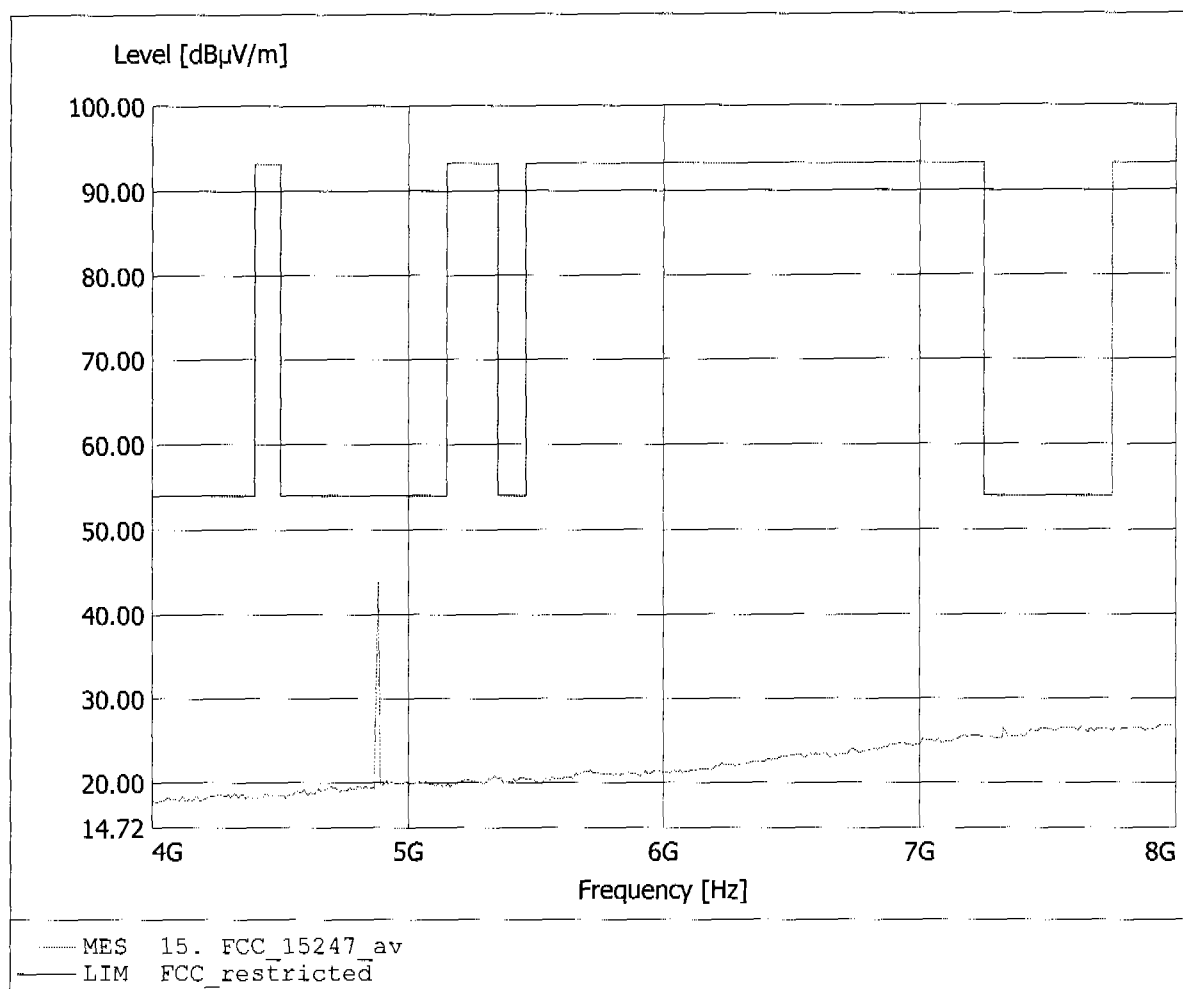
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.882GHz, Emax: 72.18dBμV/m, RBW: 1MHz



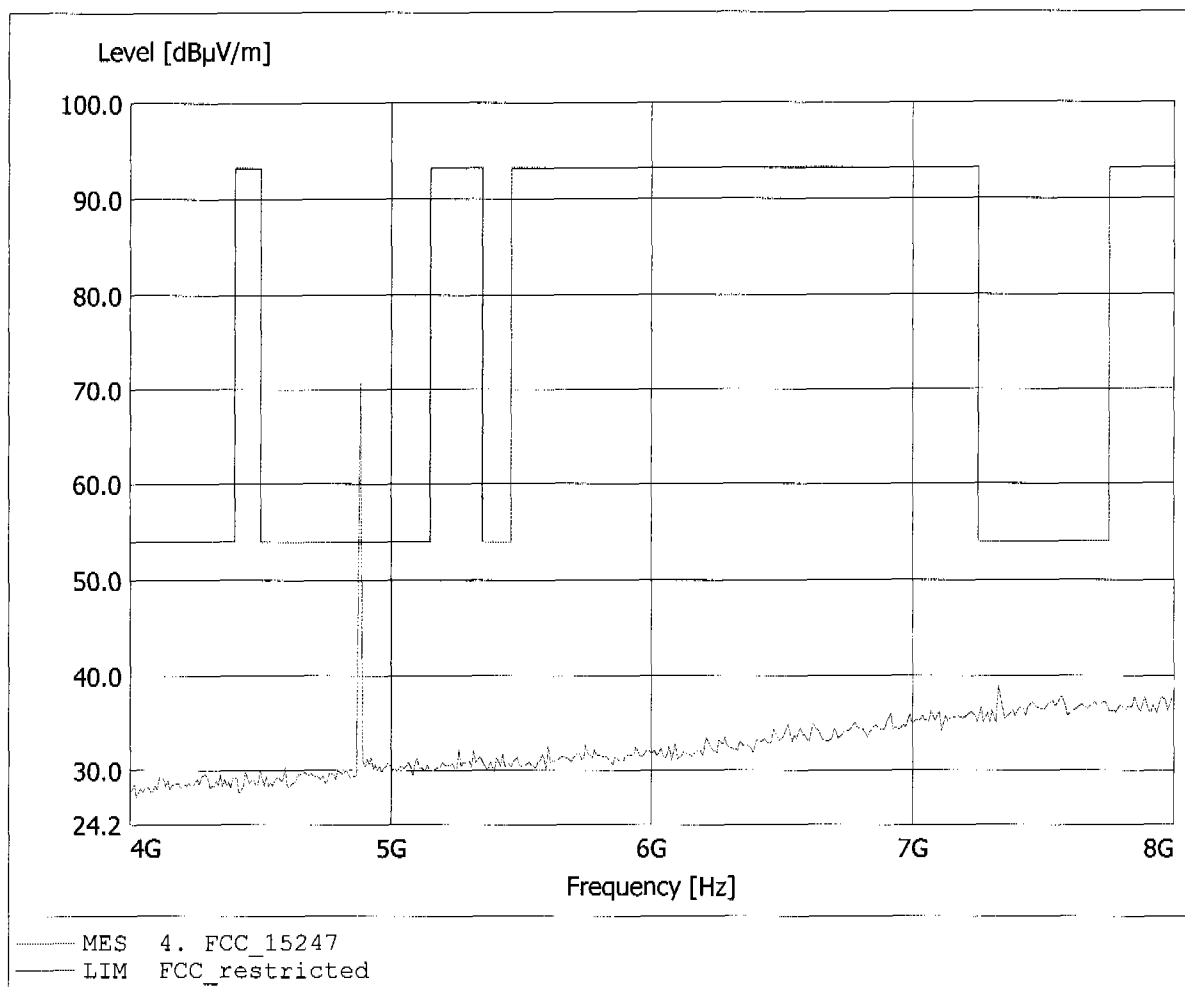
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.882GHz, Emax: 44.00dBμV/m, RBW: 1MHz



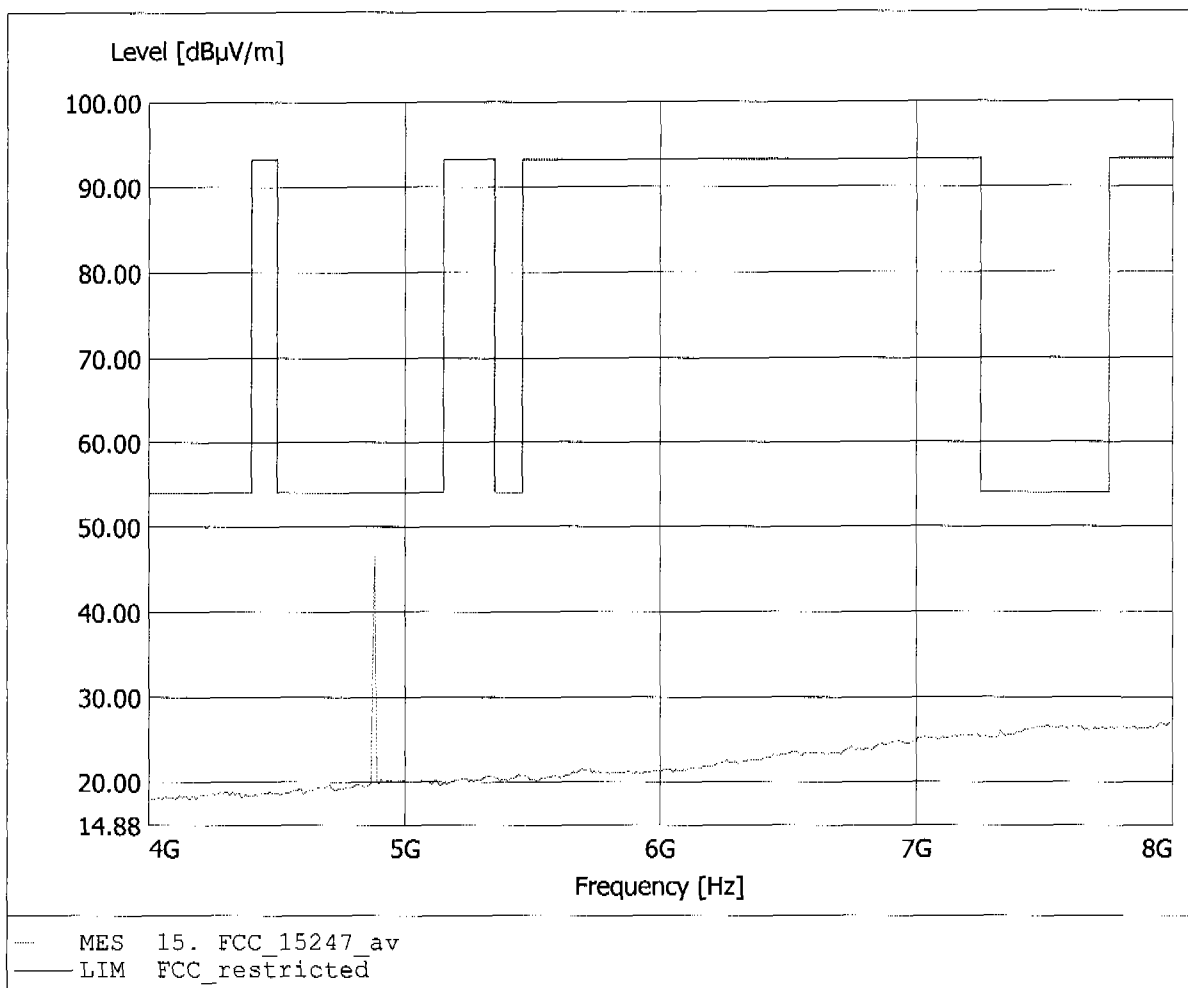
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.882GHz, Emax: 70.76dBμV/m, RBW: 1MHz



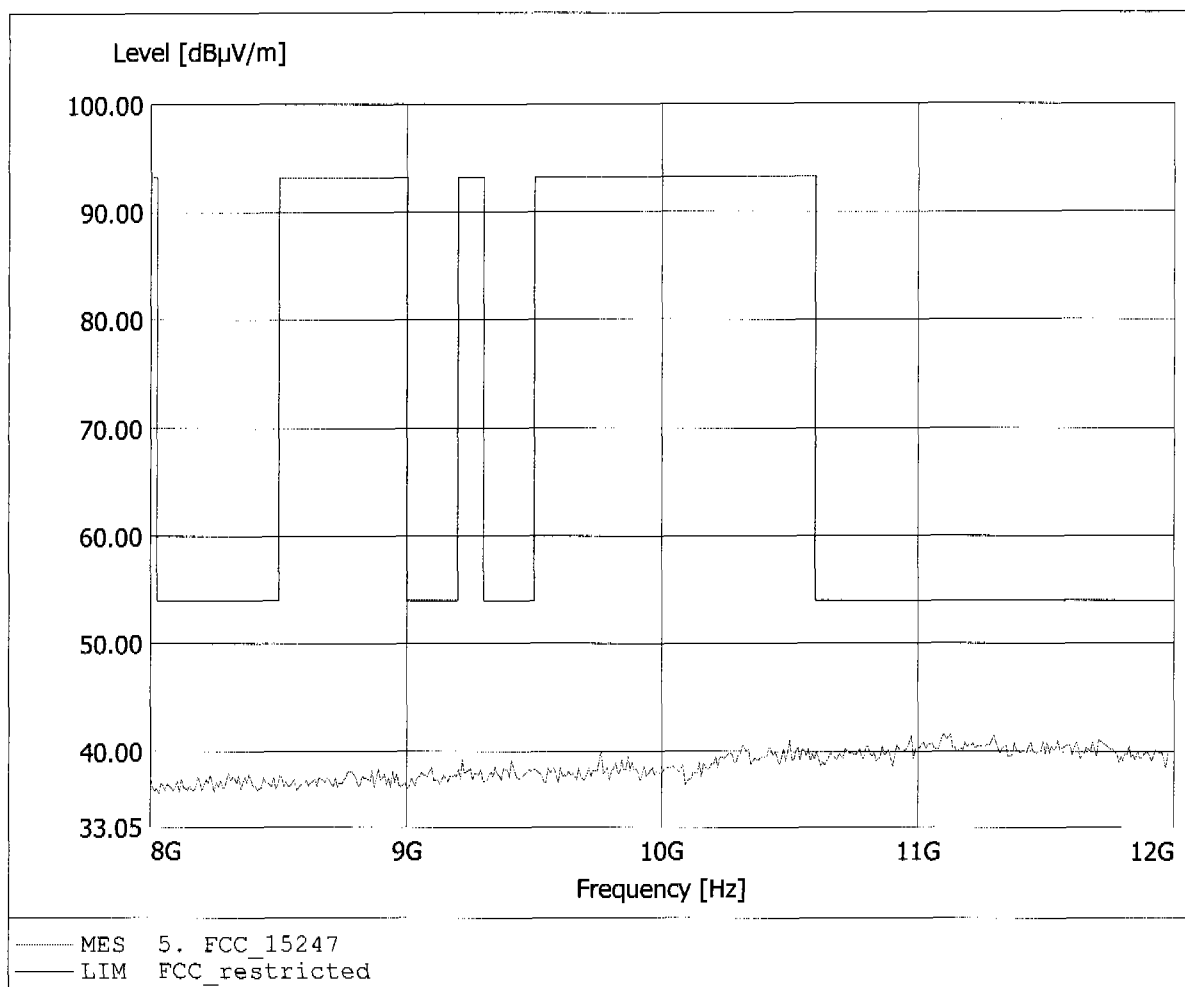
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.882GHz, Emax: 46.43dBμV/m, RBW: 1MHz



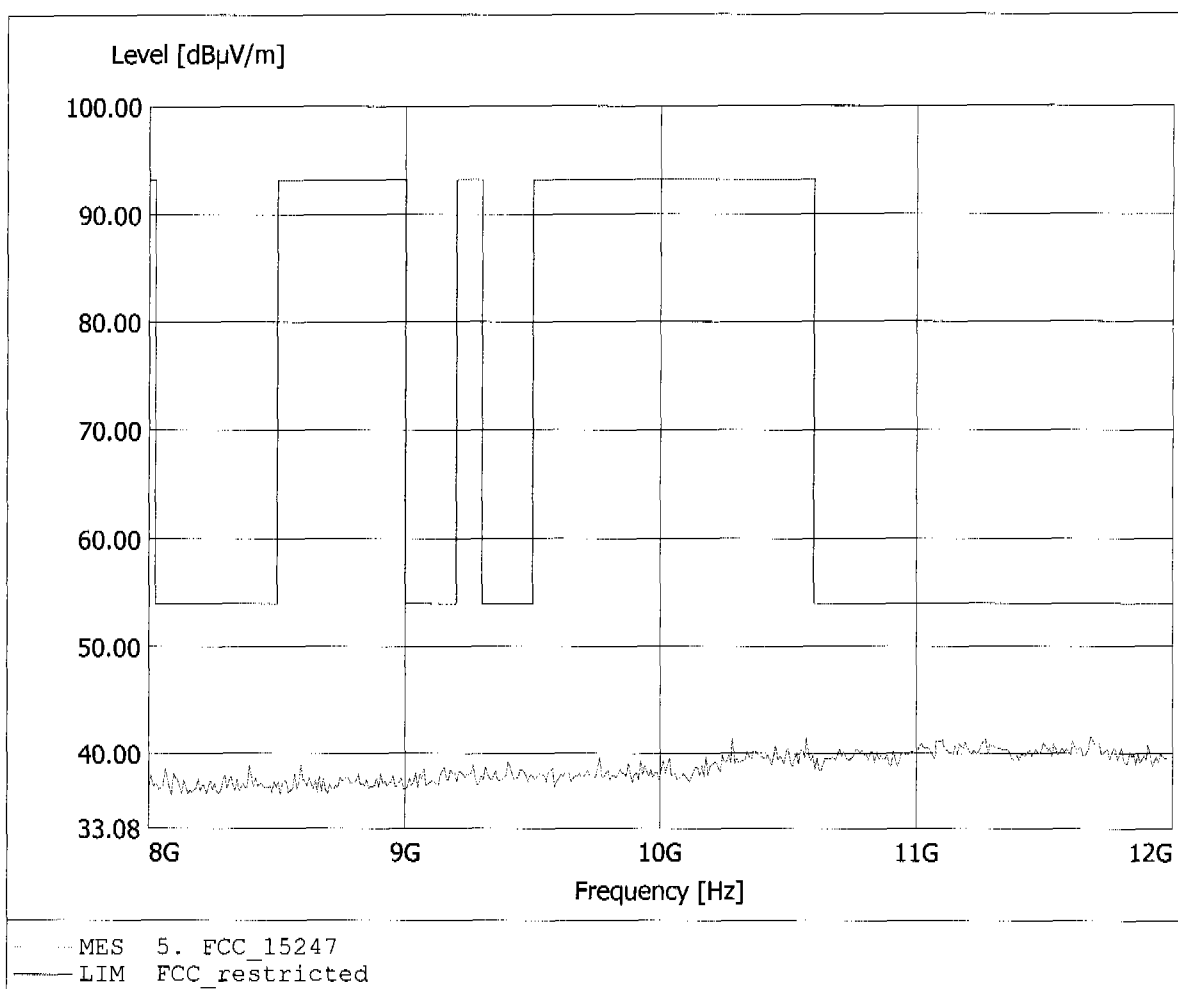
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port).
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.126GHz, Emax: 41.59dBuV/m, RBW: 1MHz



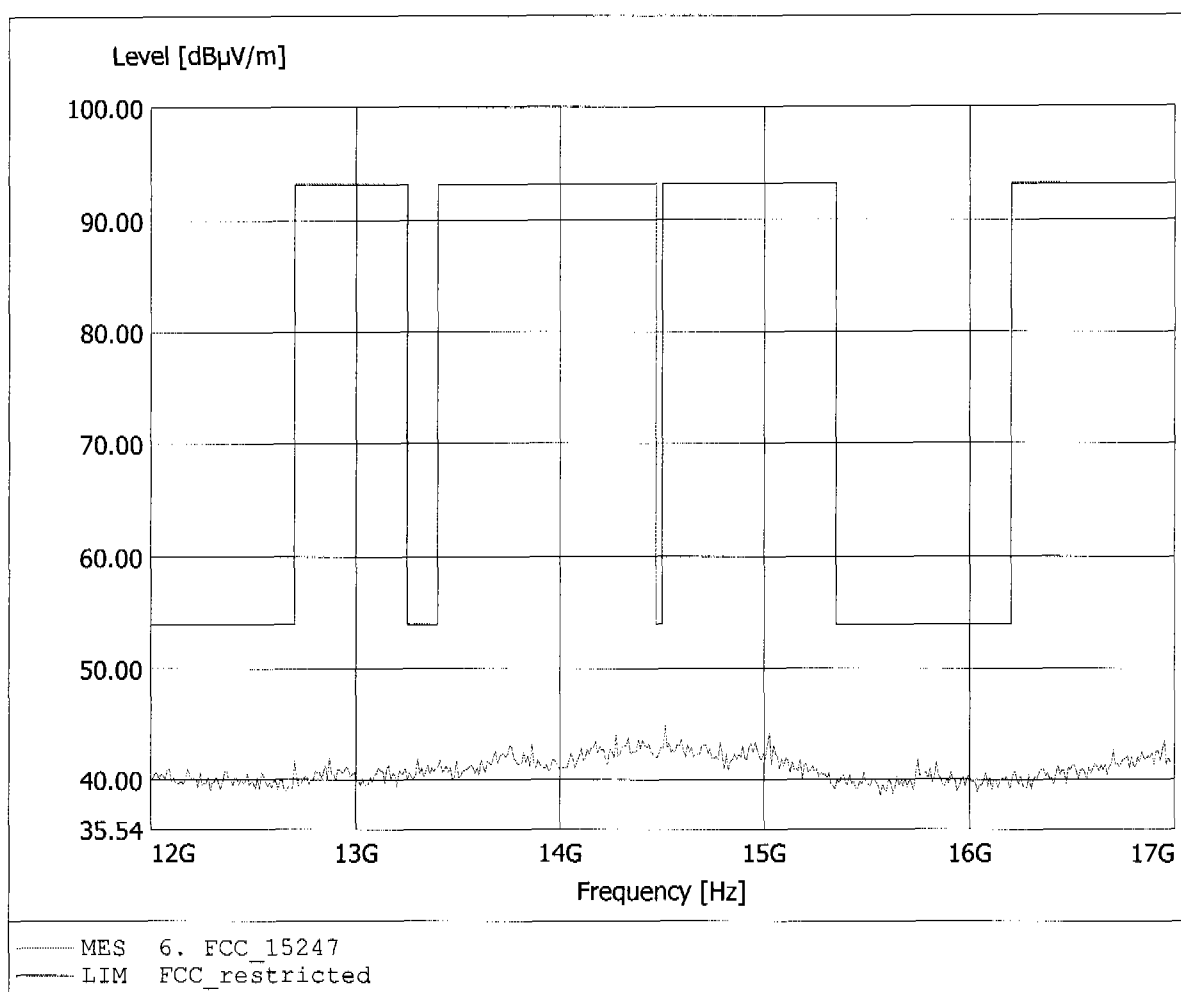
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.679GHz, Emax: 41.67dBμV/m, RBW: 1MHz



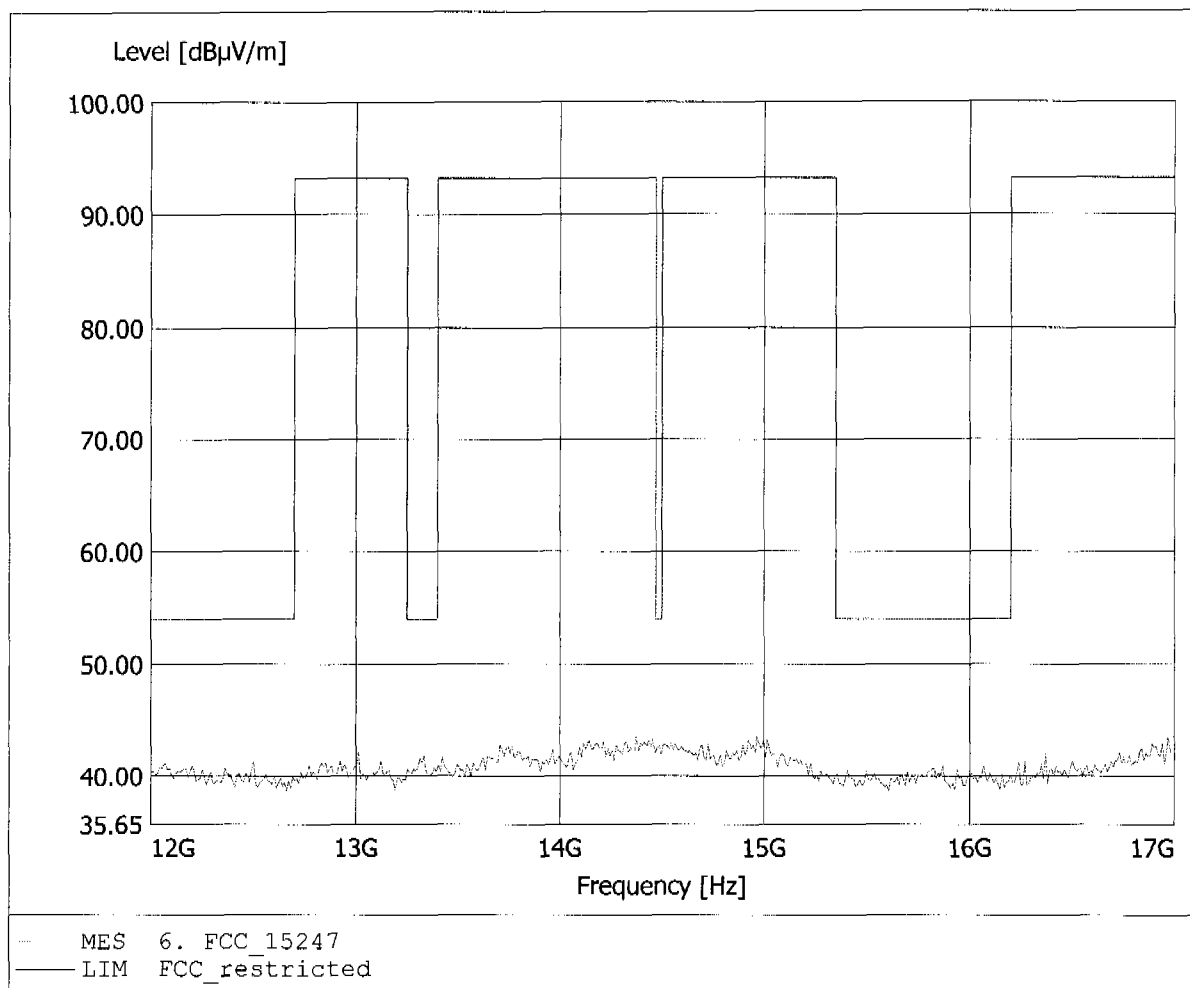
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.515GHz, Emax: 44.79dBμV/m, RBW: 1MHz



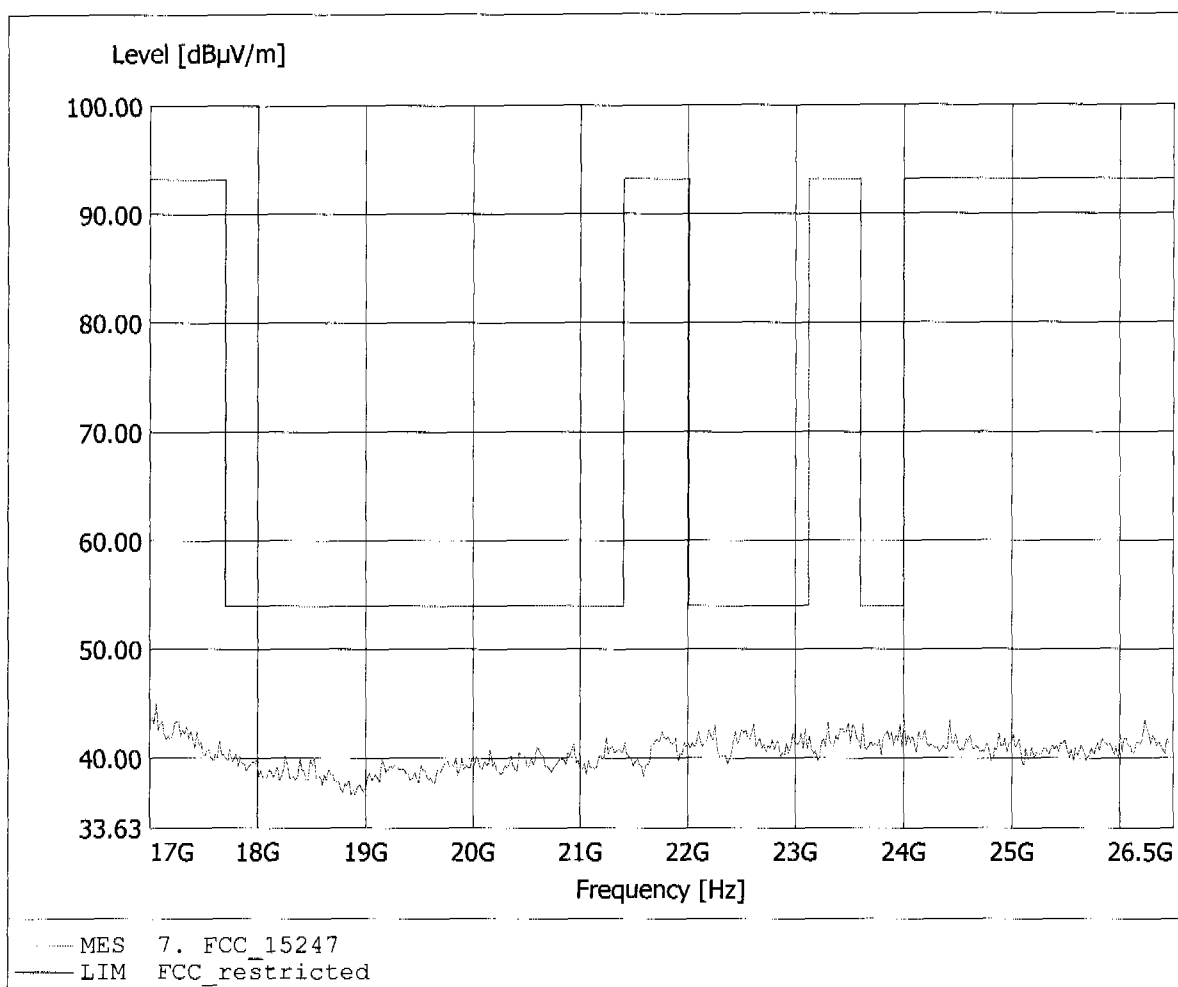
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.966GHz, Emax: 43.62dBuV/m, RBW: 1MHz



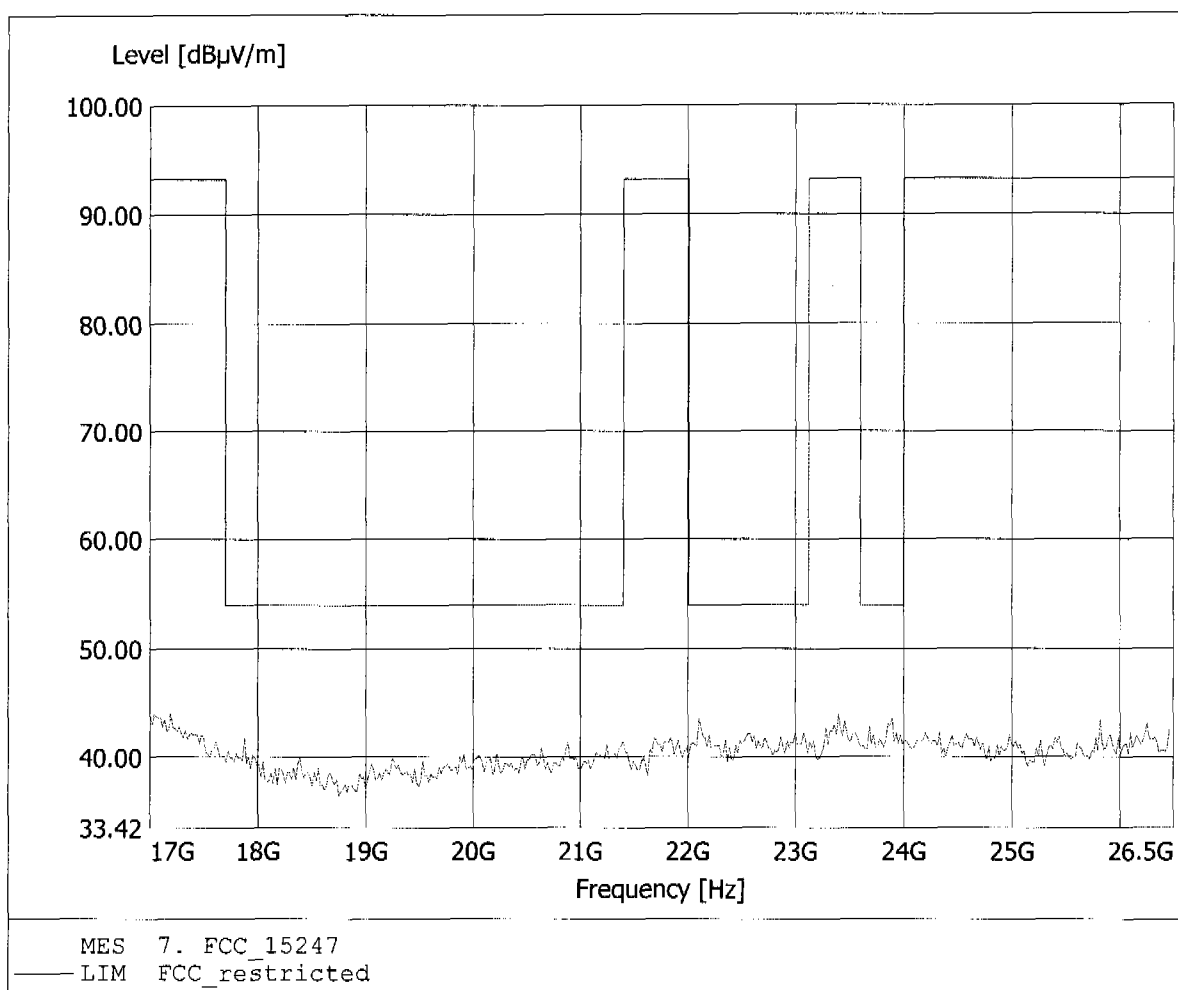
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 17.057GHz, Emax: 44.93dBμV/m, RBW: 1MHz



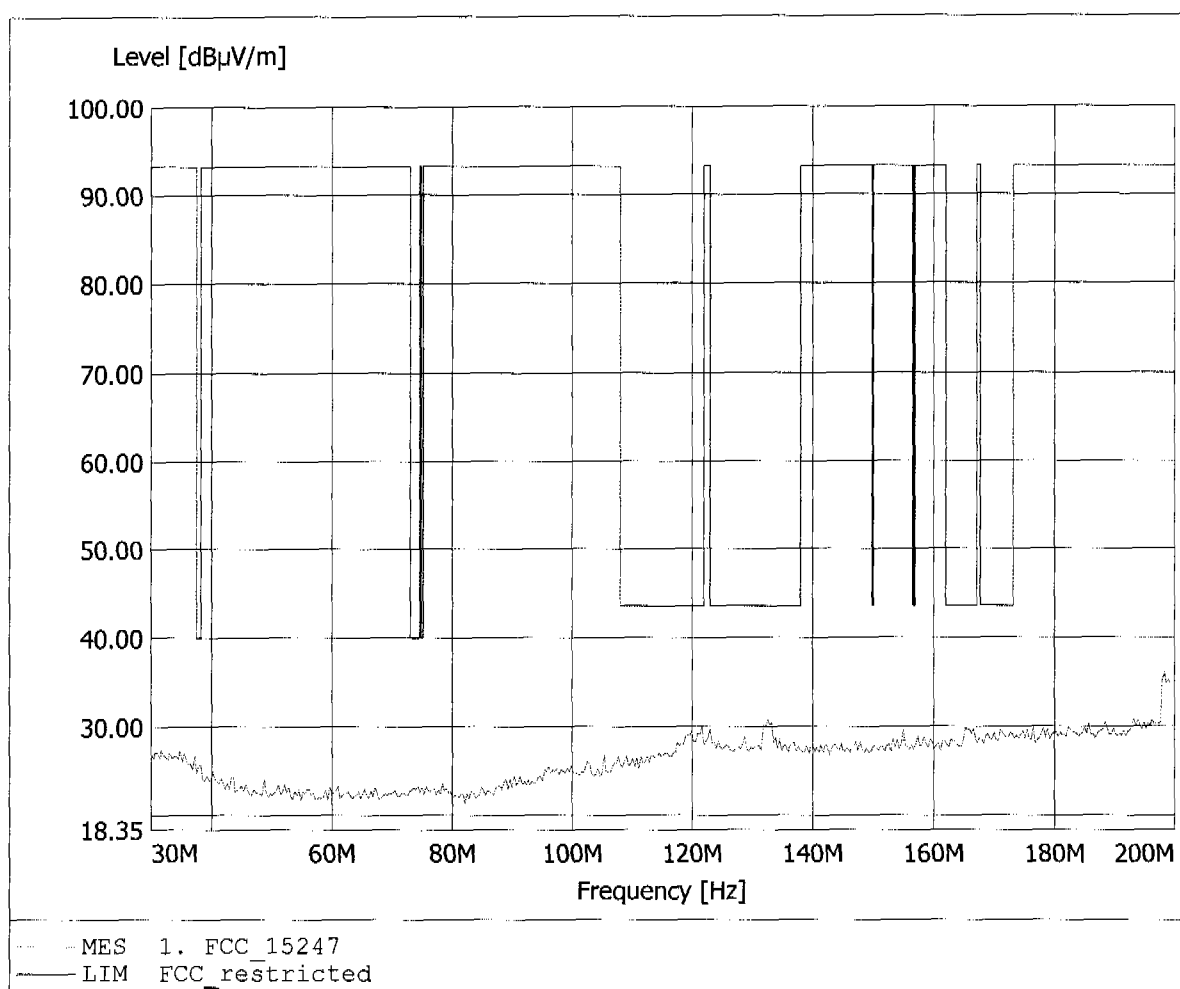
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2441 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 17.190GHz, Emax: 43.97dBμV/m, RBW: 1MHz



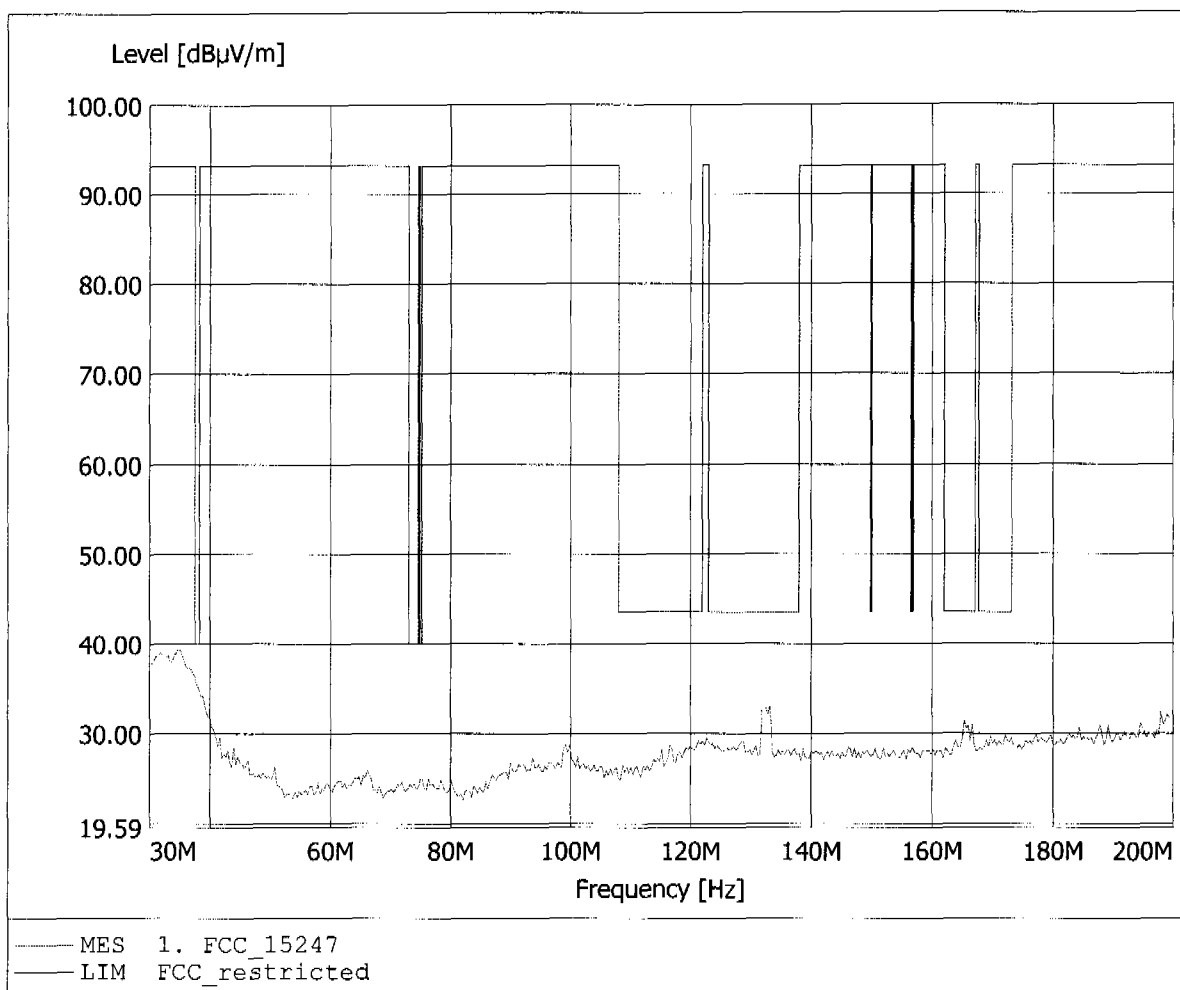
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 198.297MHz, Emax: 36.03dBµV/m, RBW: 100kHz



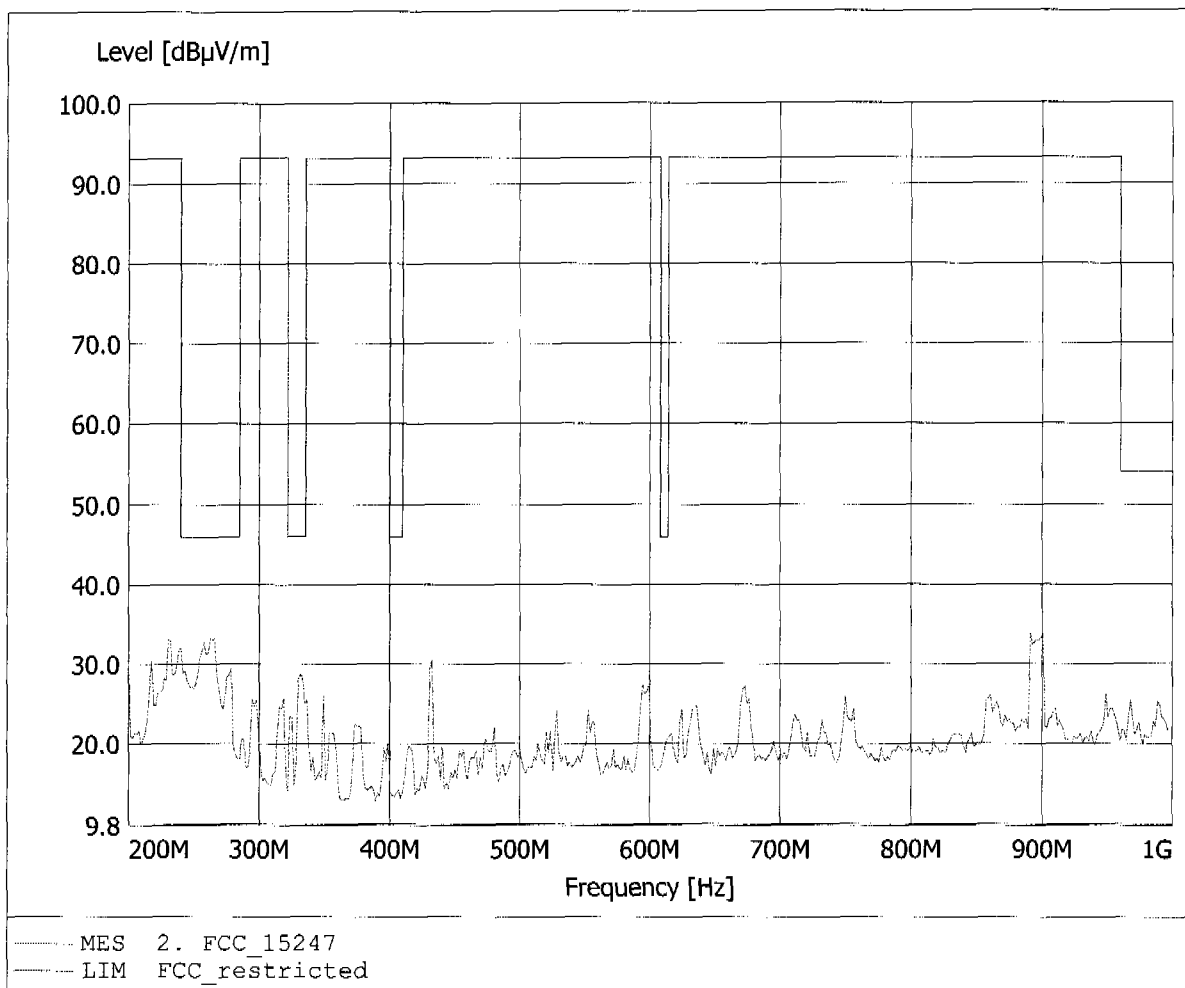
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 34.770MHz, Emax: 39.44dBµV/m, RBW: 100kHz



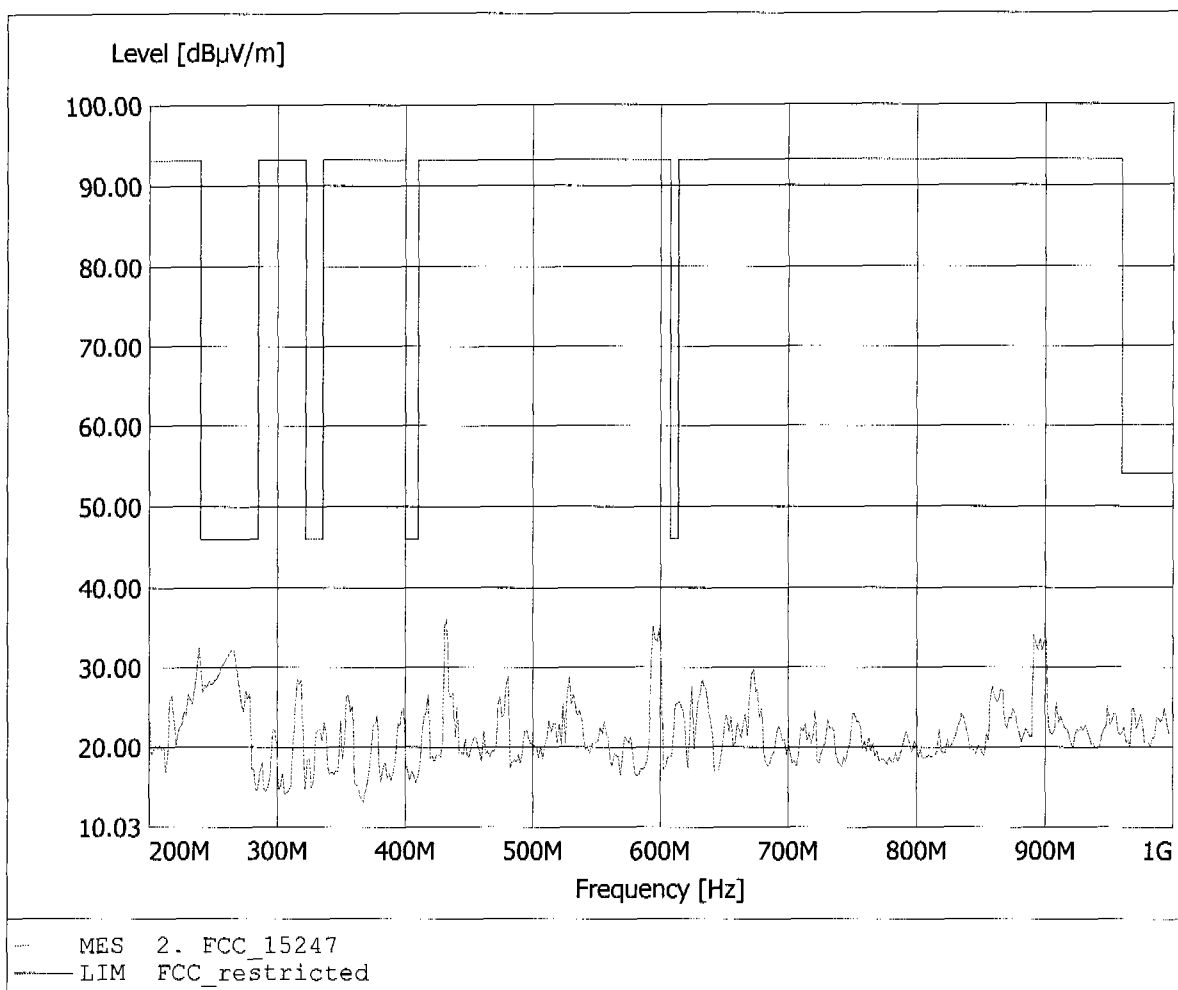
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 890.982MHz, Emax: 33.87dBµV/m, RBW: 100kHz



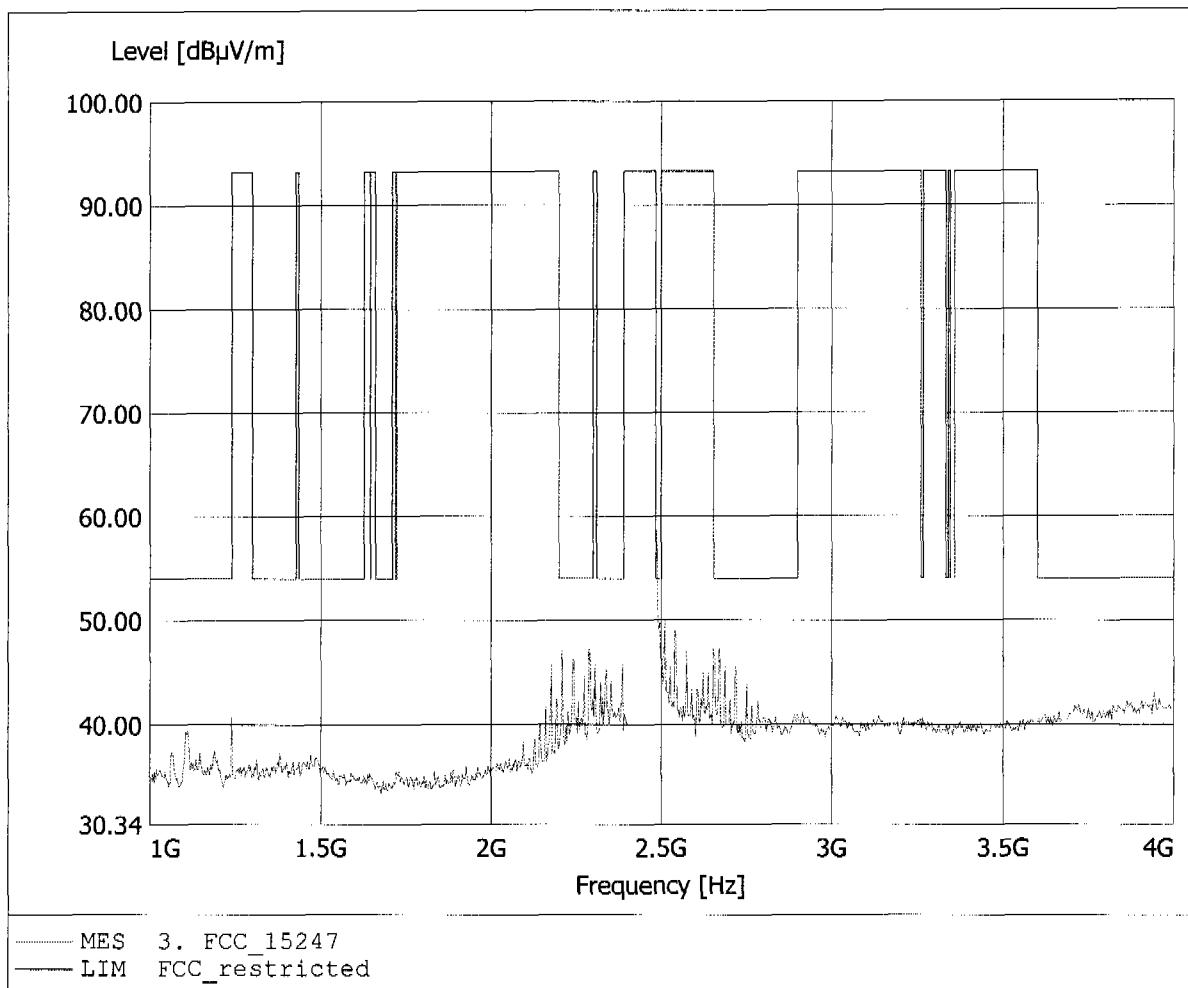
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 432.465MHz, Emax: 35.99dBμV/m, RBW: 100kHz



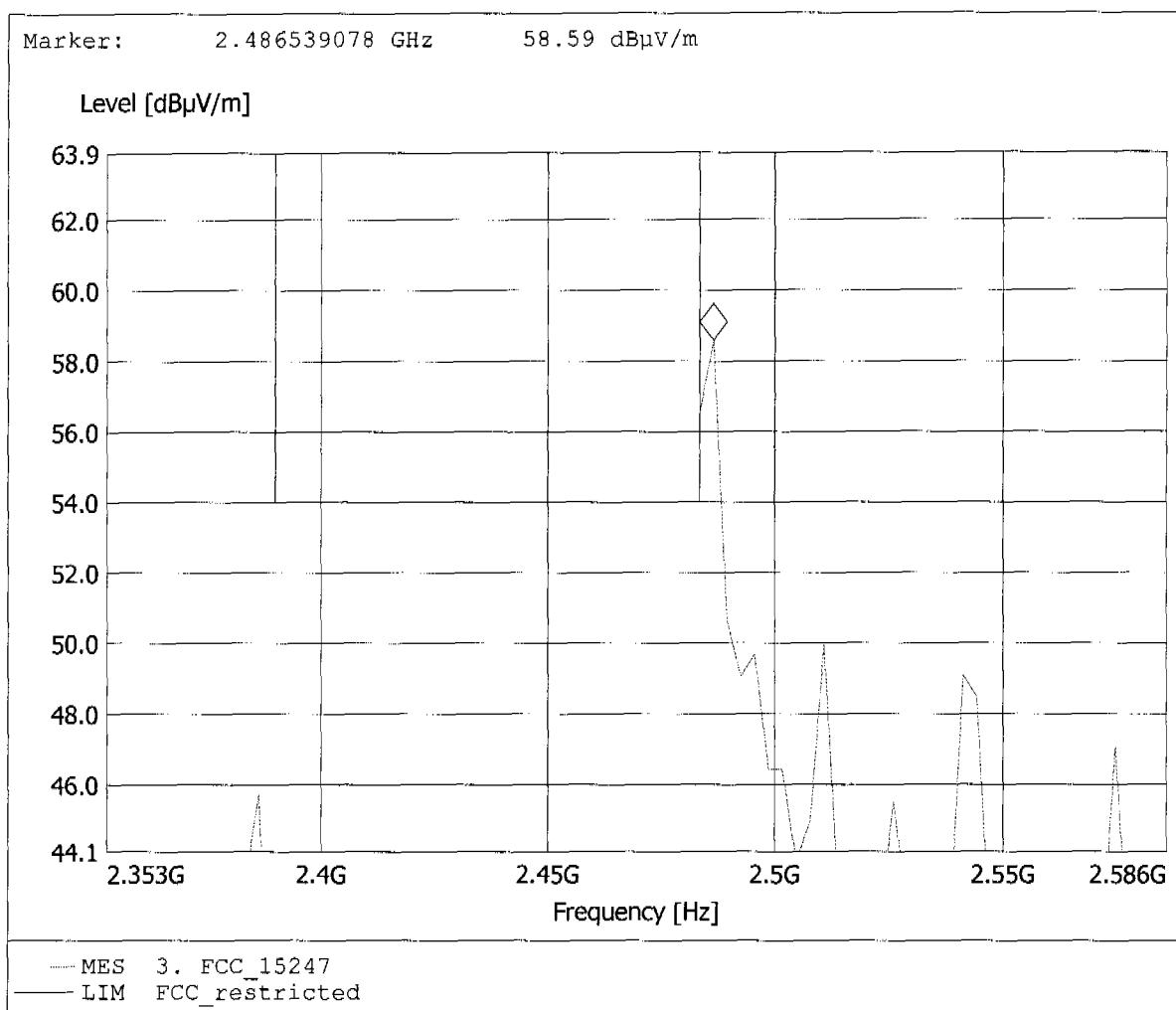
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.487GHz, Emax: 58.59dBμV/m, RBW: 1MHz



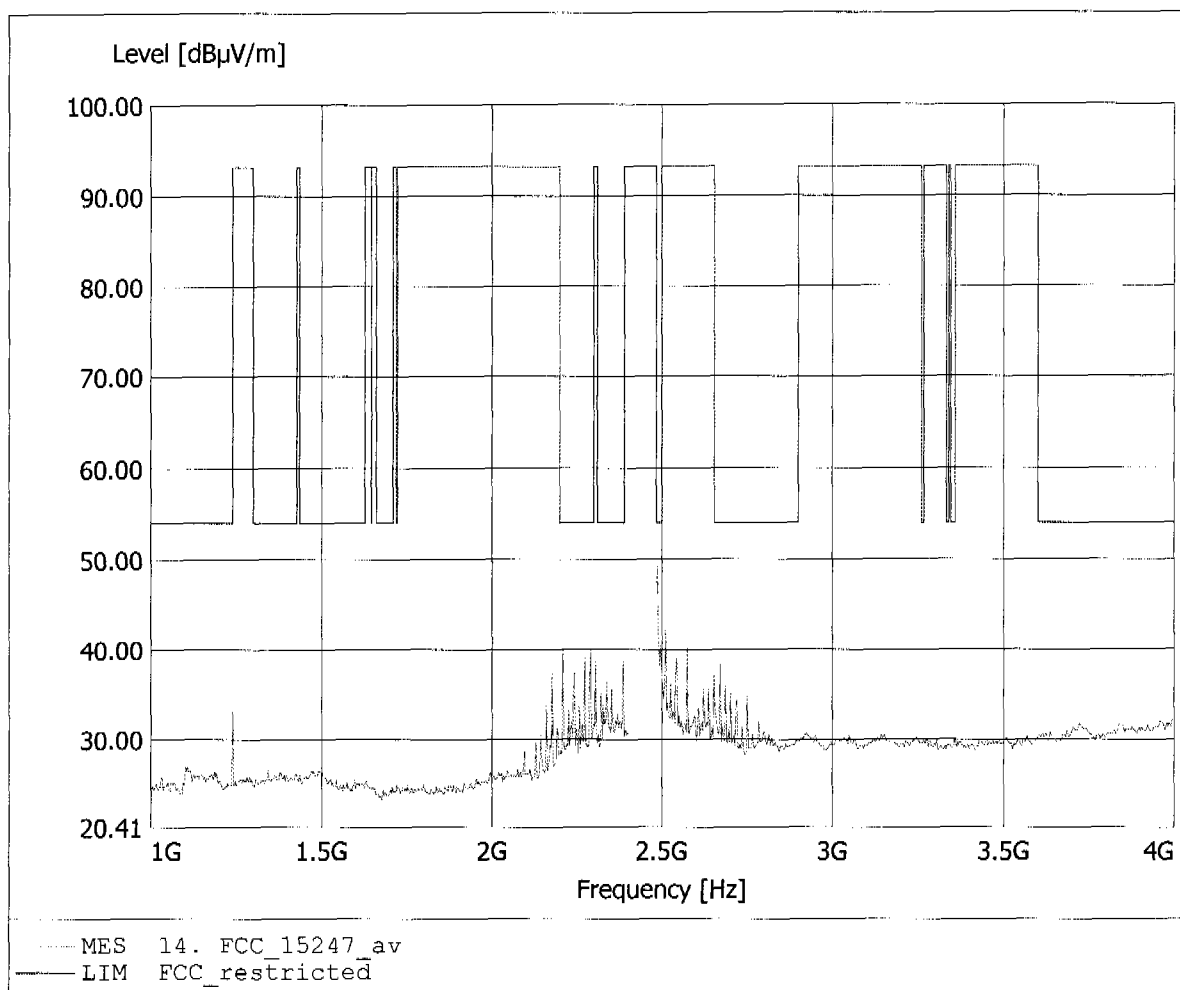
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.487GHz, Emax: 58.59dBµV/m, RBW: 1MHz



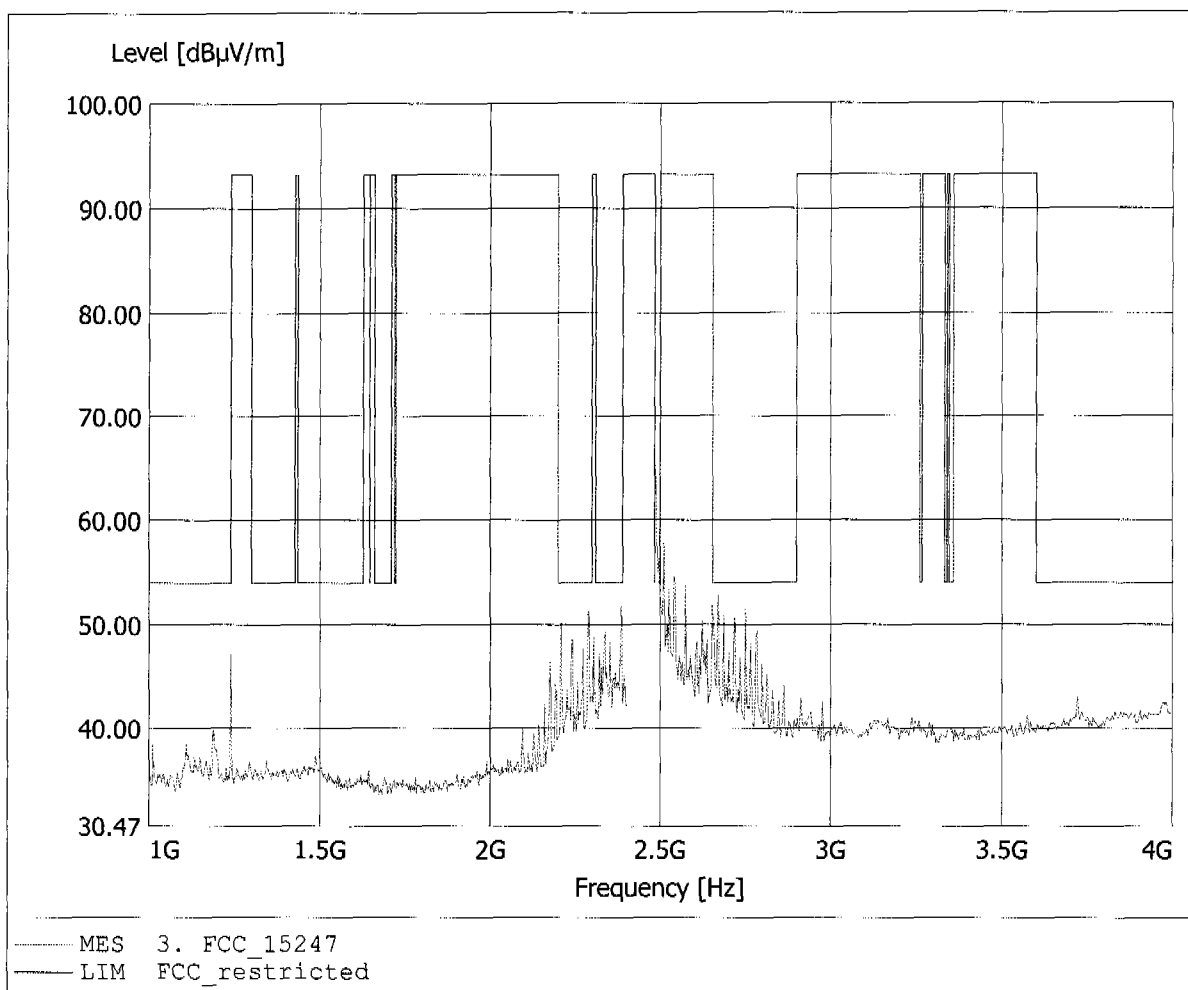
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.487GHz, Emax: 49.15dBμV/m, RBW: 1MHz



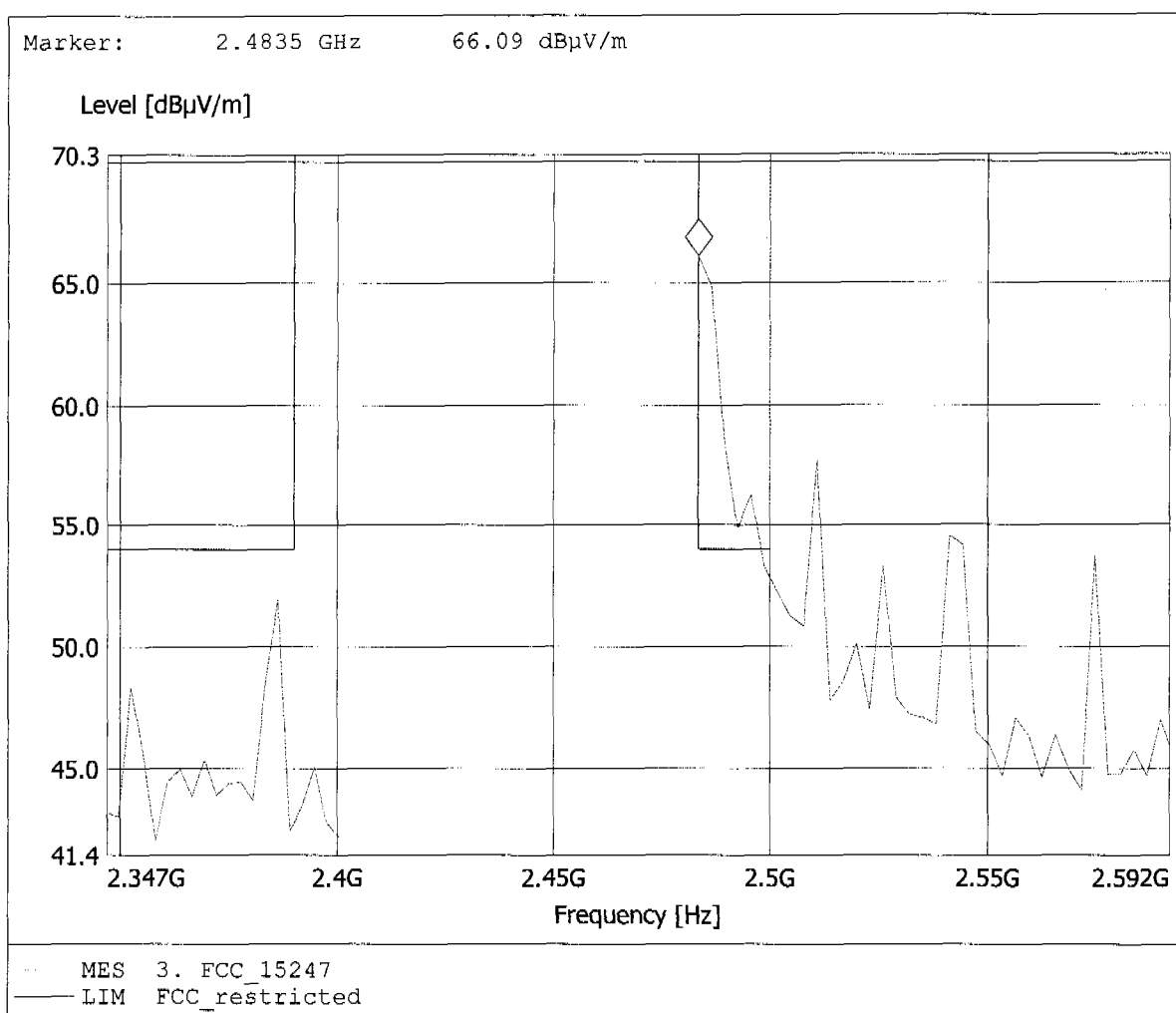
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.484GHz, Emax: 66.09dBμV/m, RBW: 1MHz



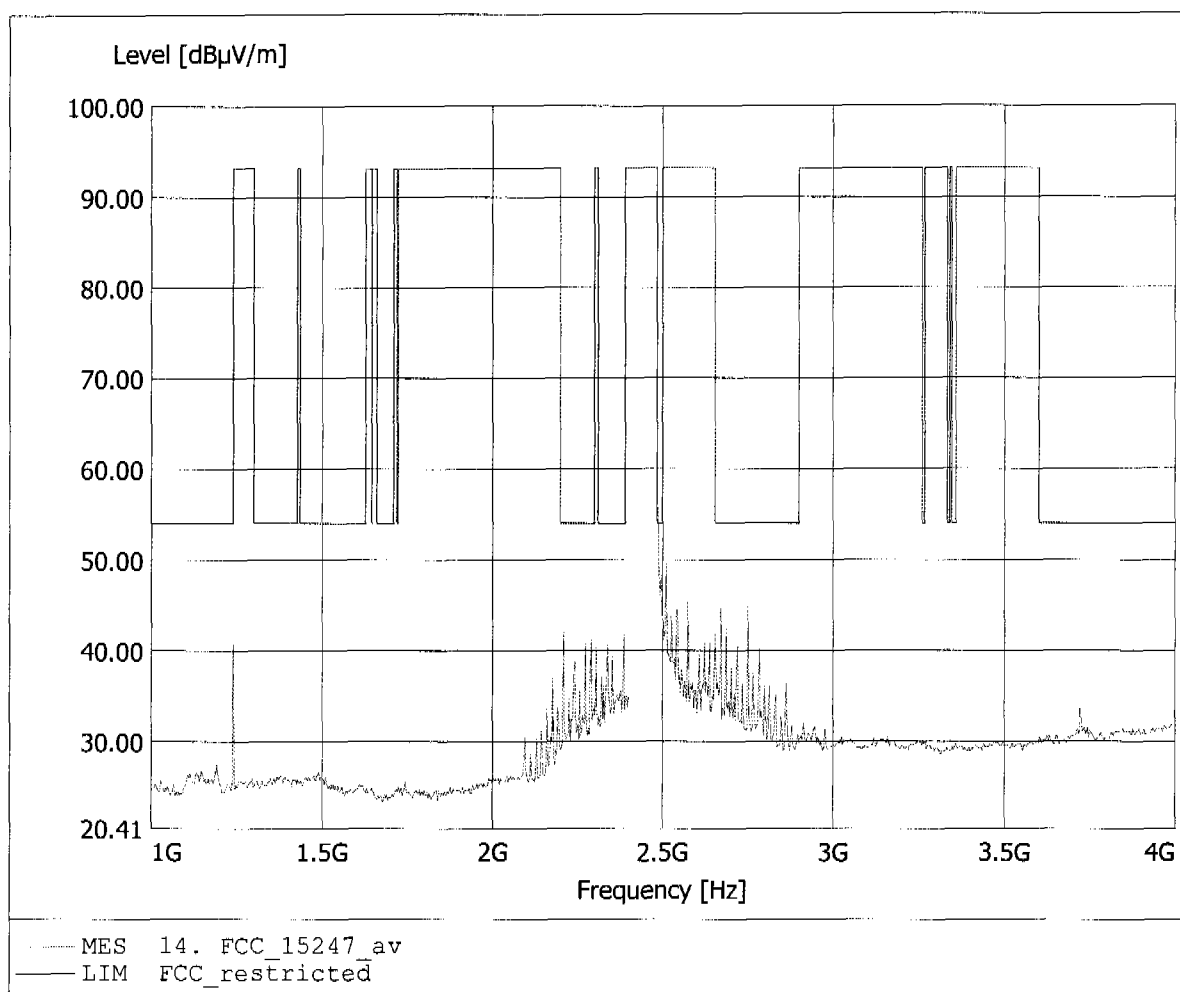
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.484GHz, Emax: 66.09dBμV/m, RBW: 1MHz



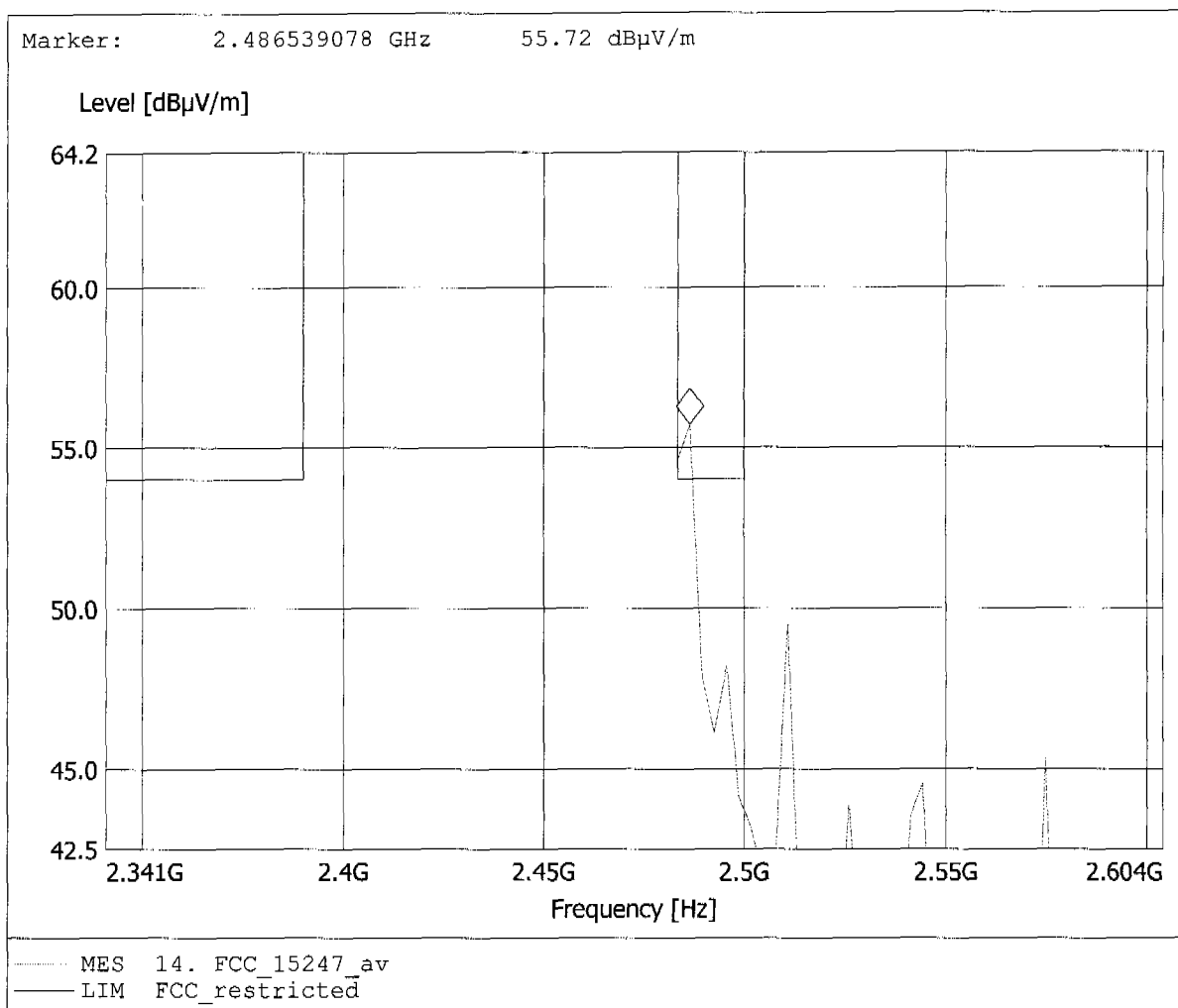
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.487GHz, Emax: 55.72dBμV/m, RBW: 1MHz



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

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.
Comment 2: Freq: 2.487GHz, Emax: 55.72dBuV/m, RBW: 1MHz



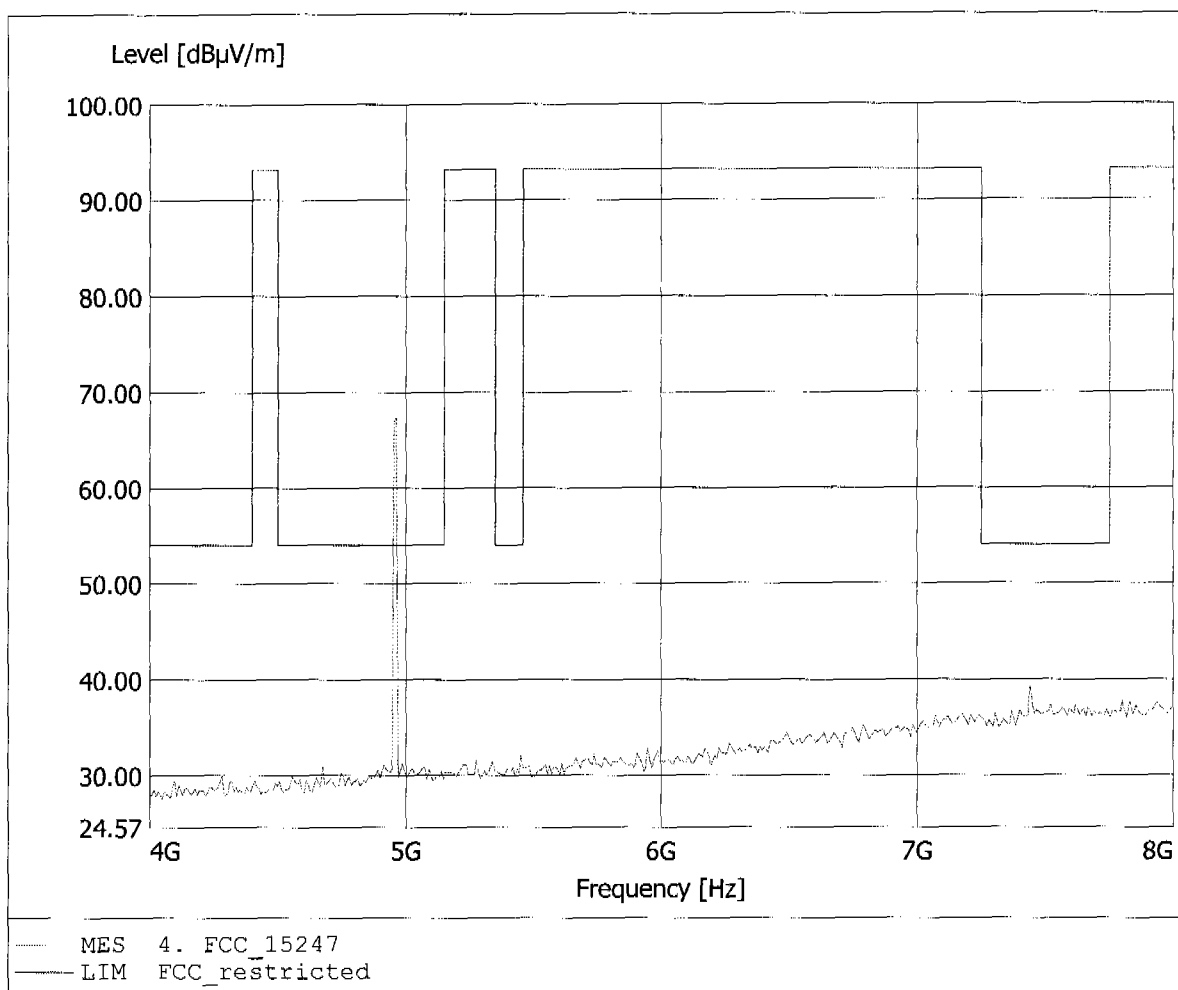
DA 00-705 / Marker Delta Method:

The value measured with average detector may be reduced by the "delta" value according to Marker-Delta Method plot.

Please see page 2 of appendix and pages 20-22 of TestRpt_1.

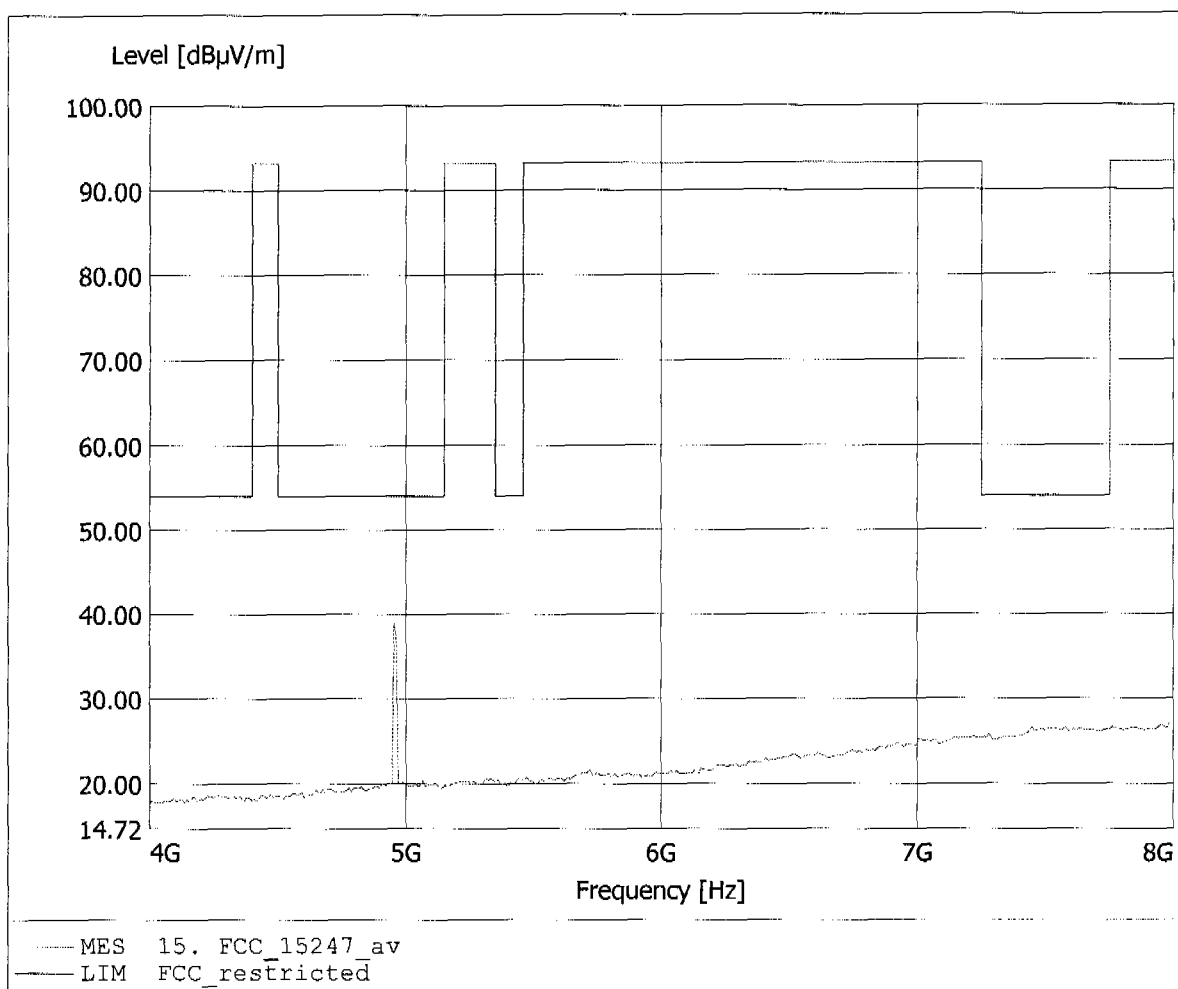
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.962GHz, Emax: 67.42dBμV/m, RBW: 1MHz



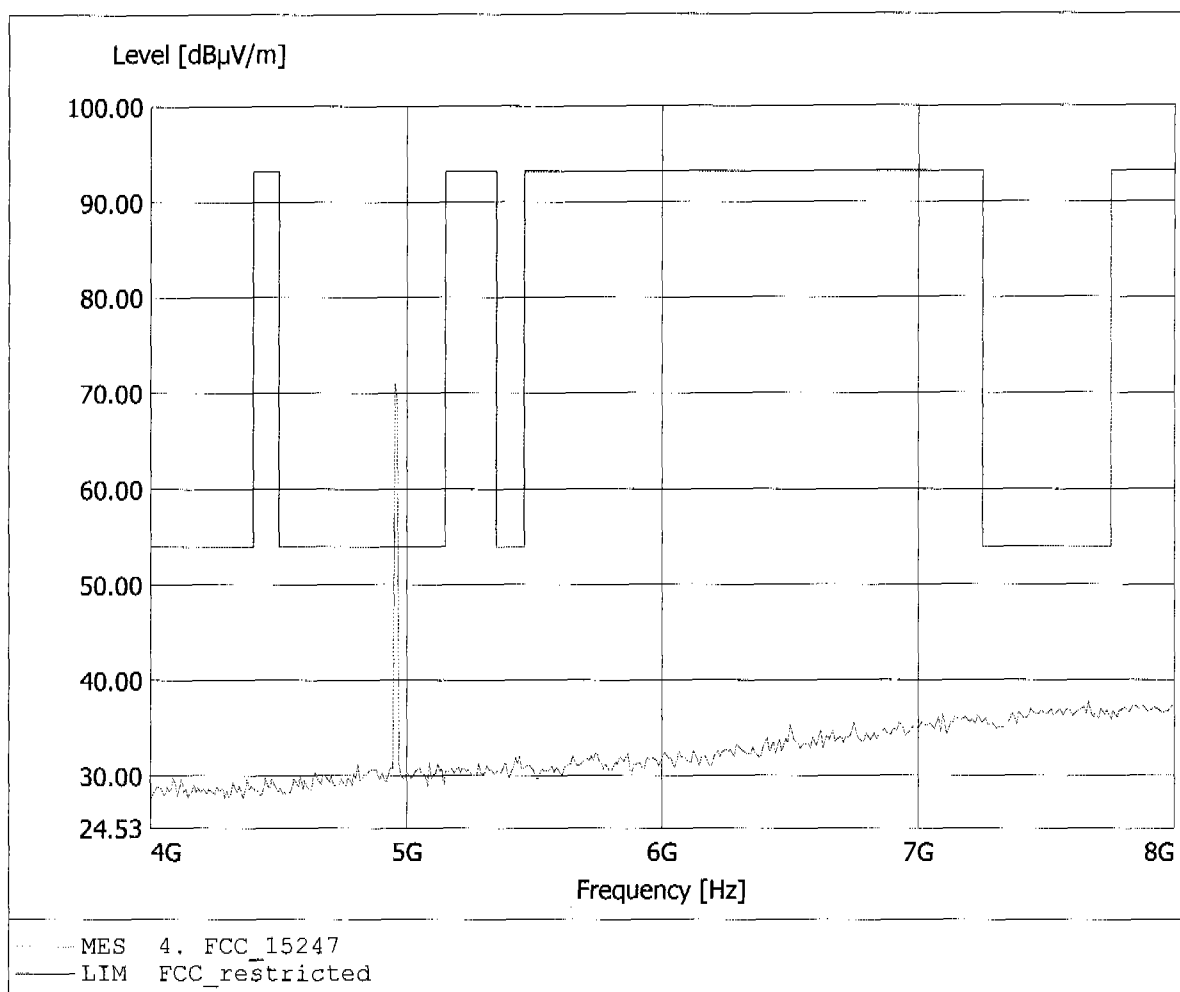
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.954GHz, Emax: 39.03dBμV/m, RBW: 1MHz



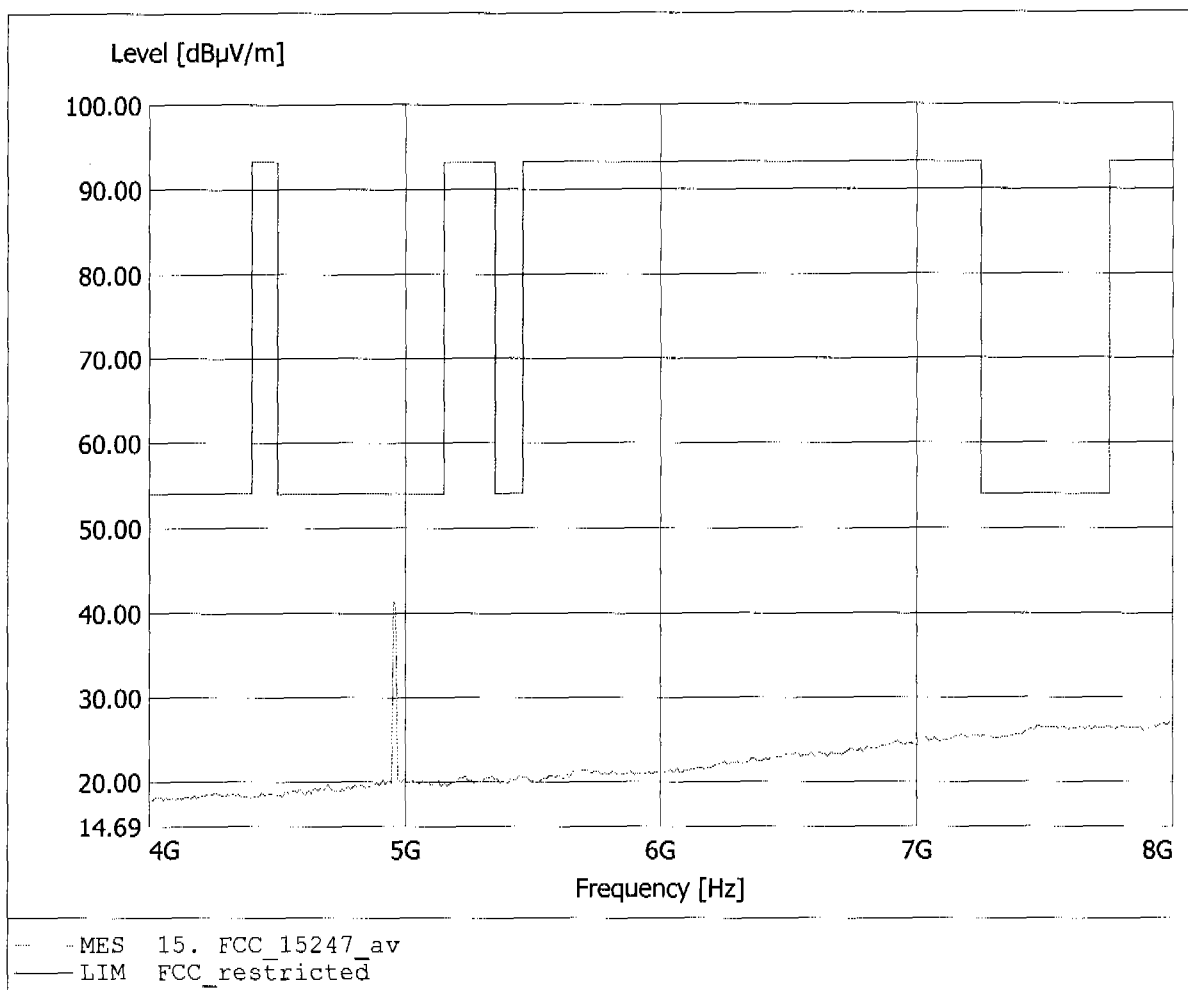
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.954GHz, Emax: 71.04dBμV/m, RBW: 1MHz



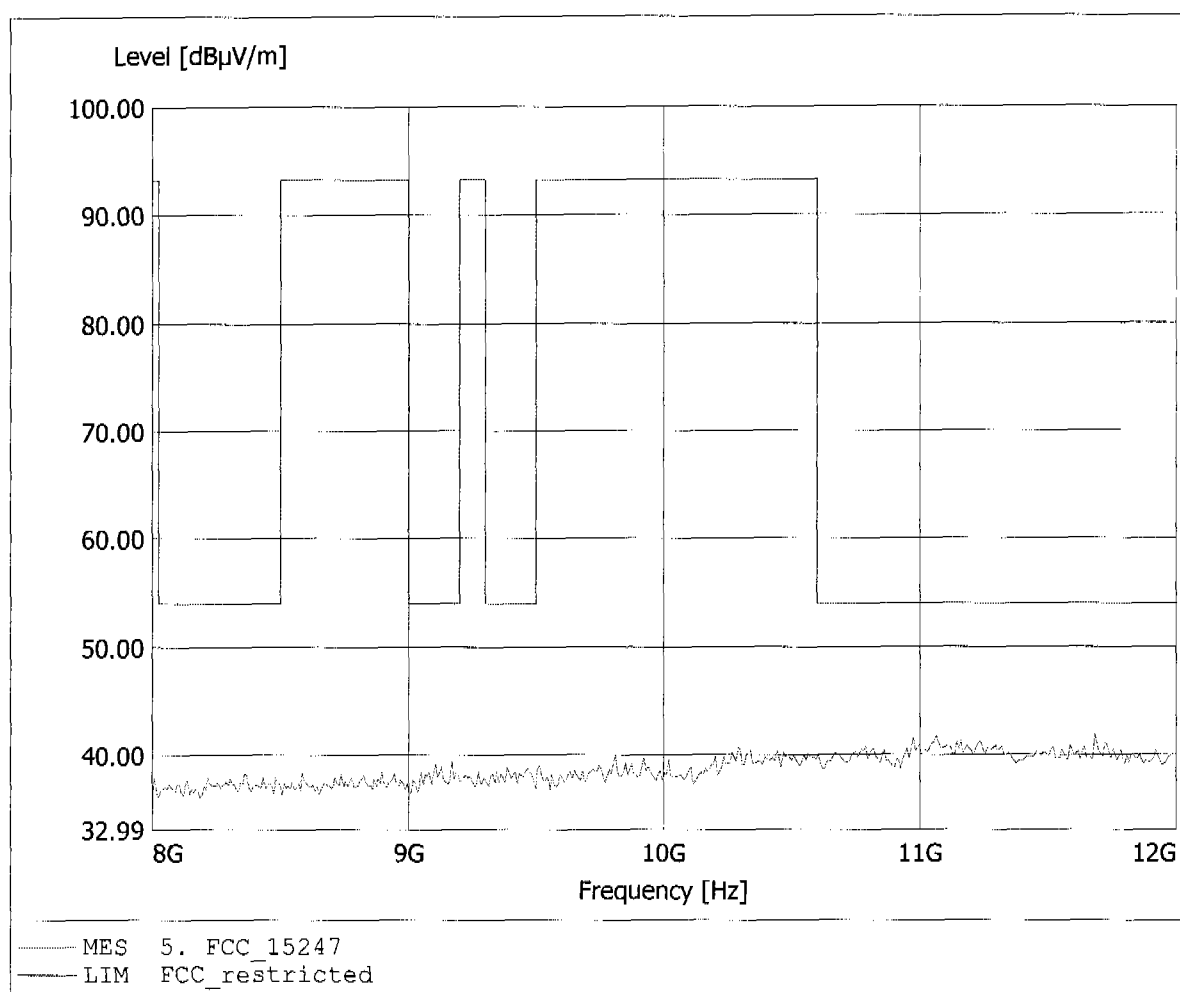
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, average detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 4.954GHz, Emax: 41.46dBμV/m, RBW: 1MHz



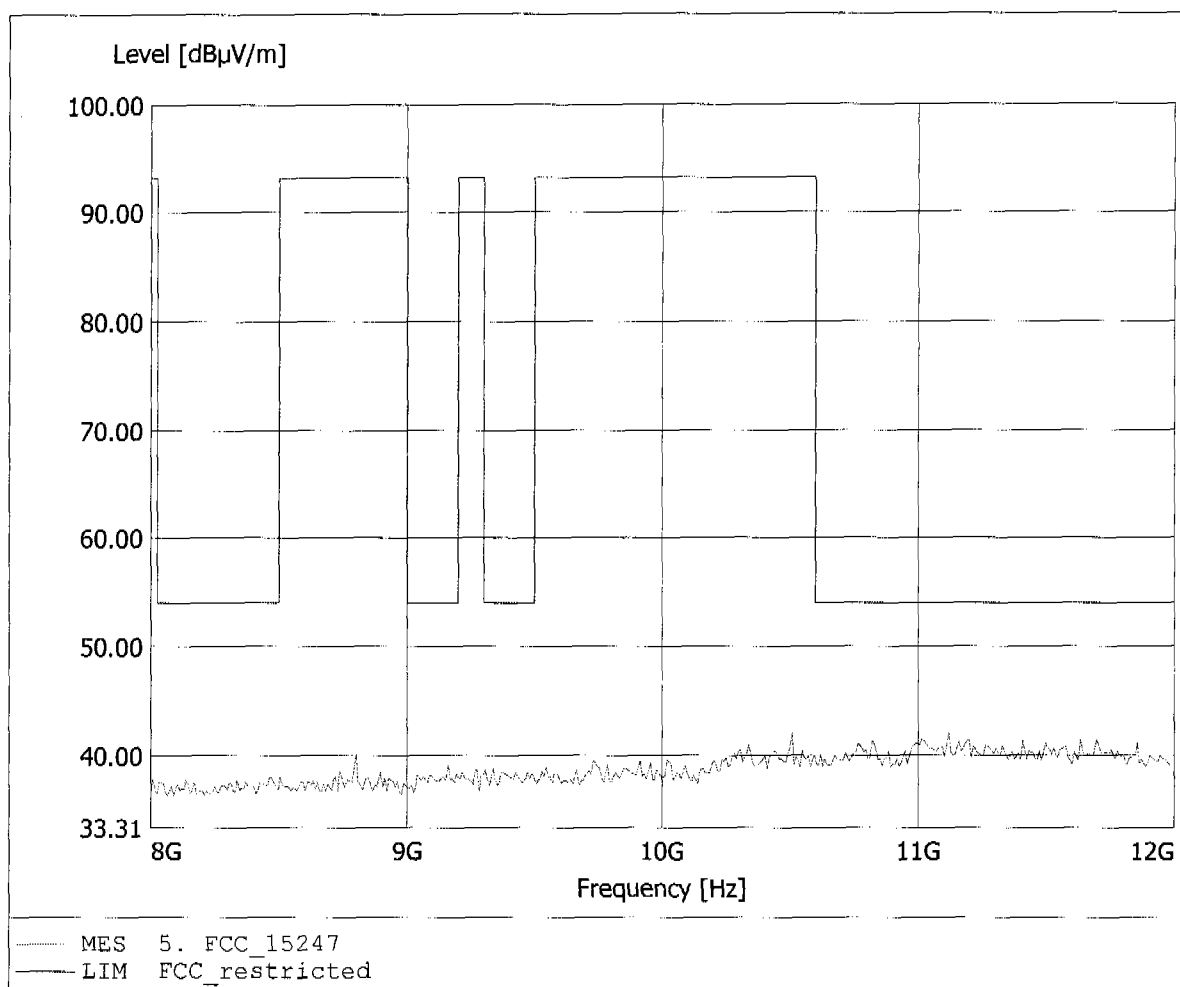
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.679GHz, Emax: 41.94dBμV/m, RBW: 1MHz



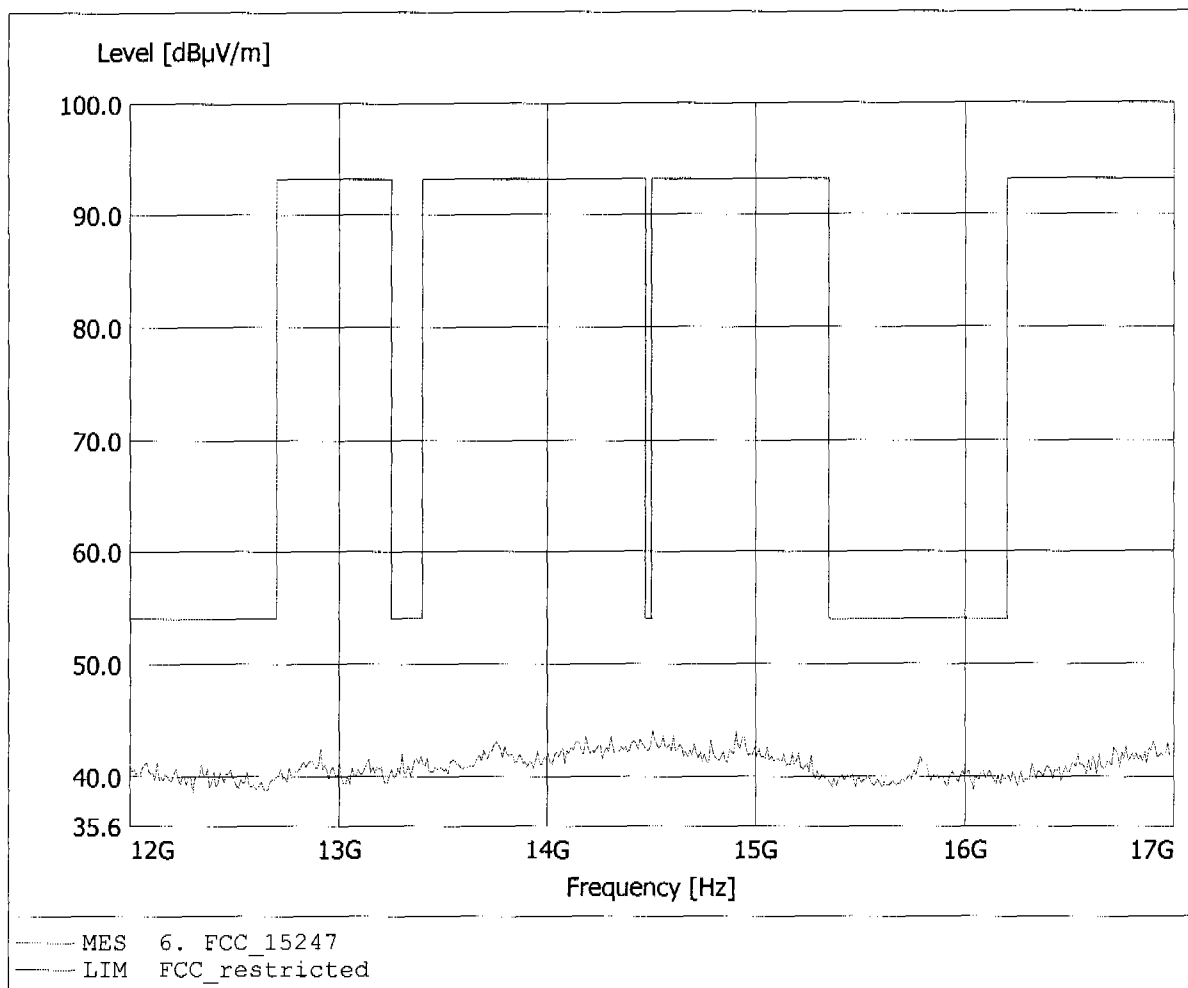
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 11.118GHz, Emax: 42.14dBμV/m, RBW: 1MHz



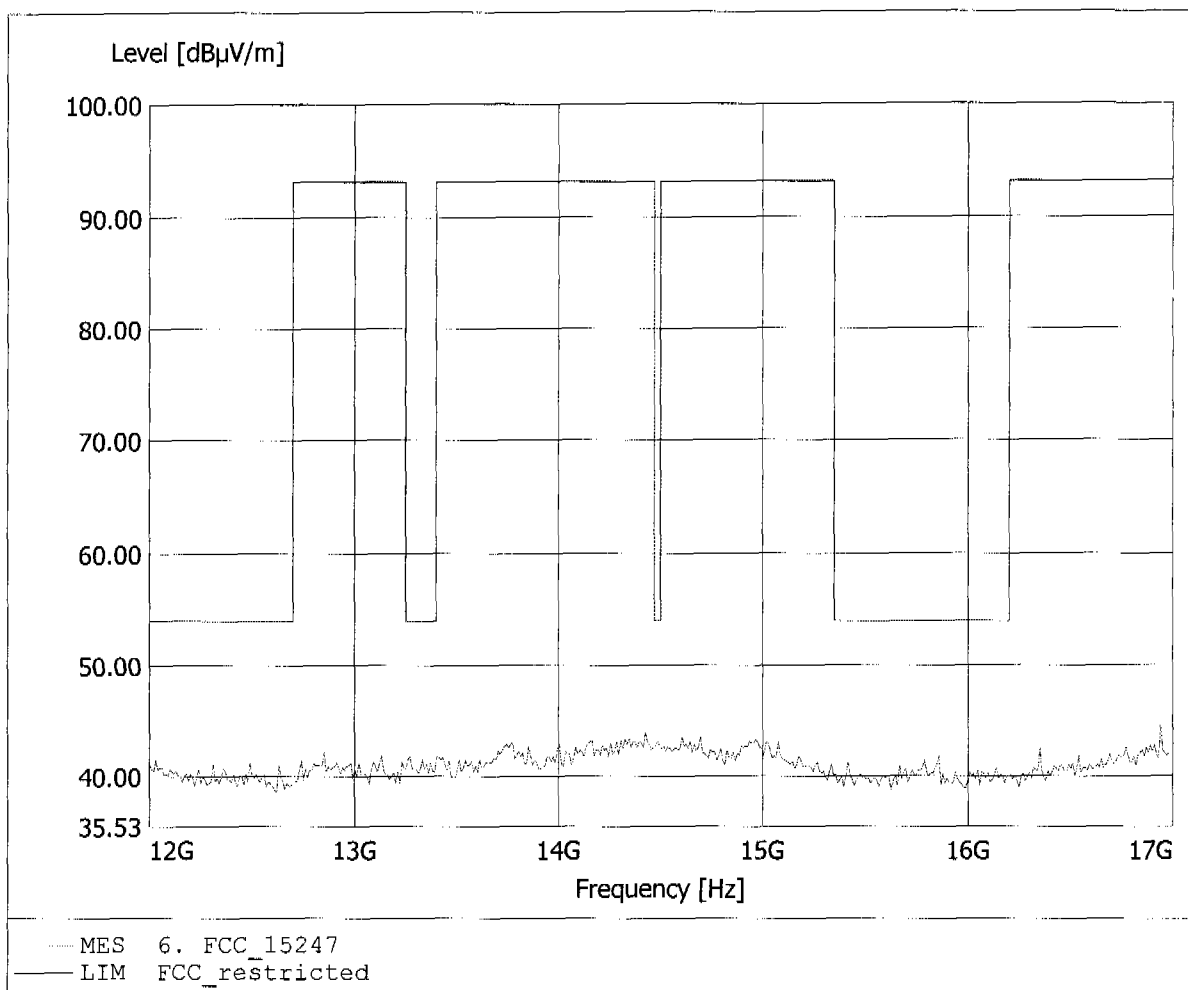
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 14.505GHz, Emax: 44.14dBμV/m, RBW: 1MHz



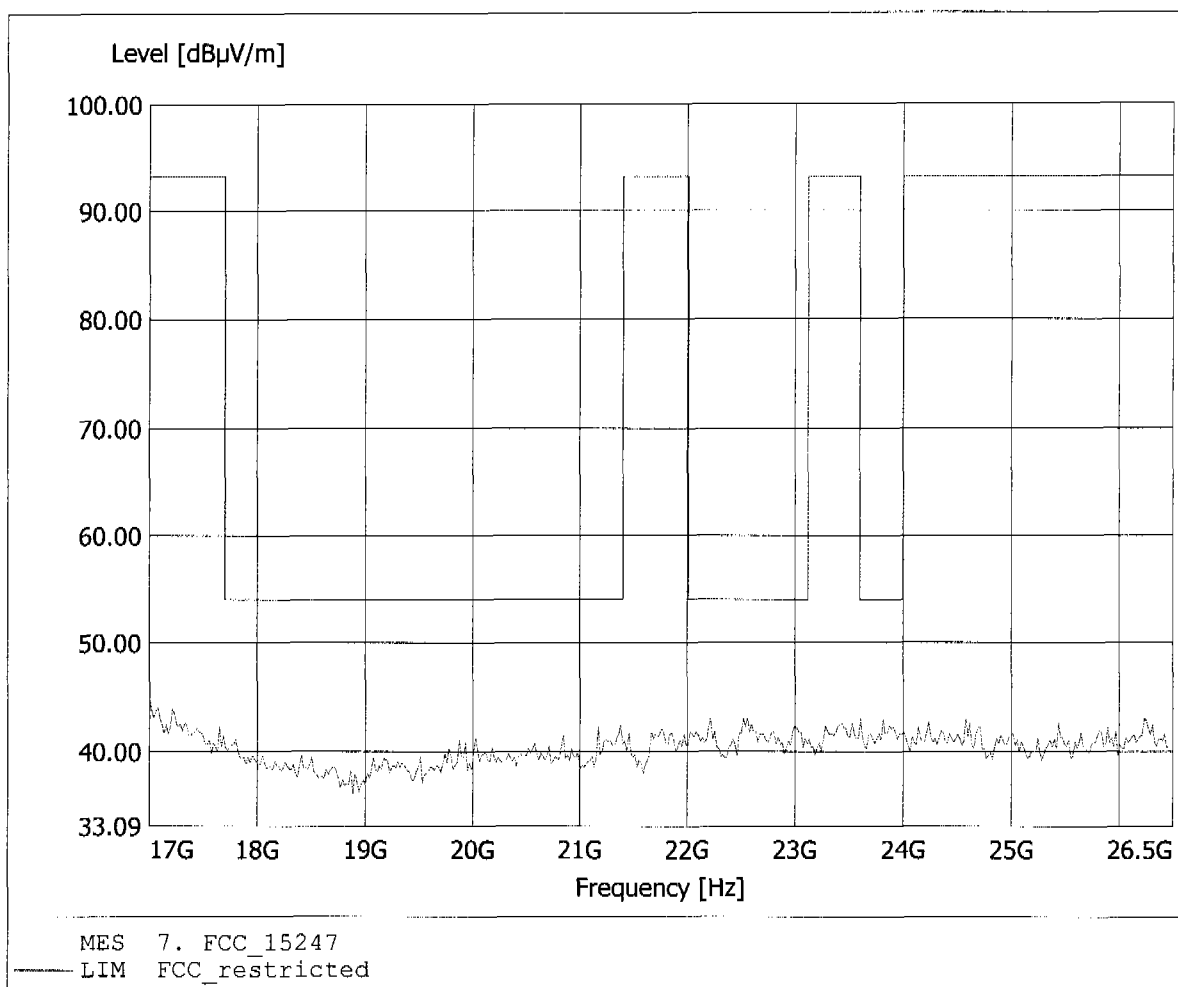
Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.
Comment 2: Freq: 16.940GHz, Emax: 44.57dBµV/m, RBW: 1MHz



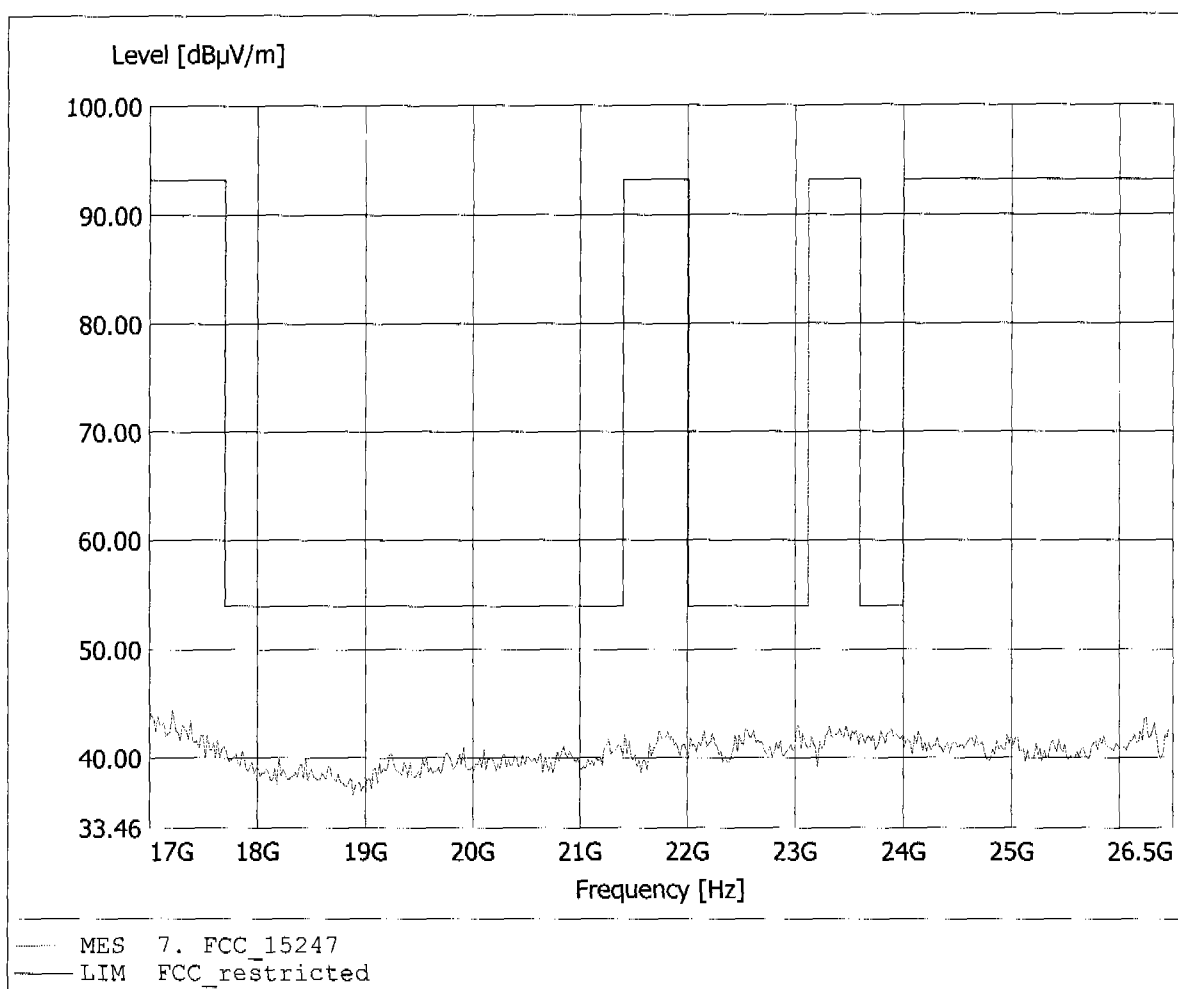
**Spurious emissions Field Strength
FCC RULES PART 15, SUBPART C**

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 17.000GHz, Emax: 44.93dBµV/m, RBW: 1MHz



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

EUT: Wireless serial adapter / Pmax / 2480 MHz
Model: HPS-120
Approval Holder: HandyWave Co., Ltd.
Operating Condition: Tnom: 23°C / Unom: 5.0 V DC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, peak detector
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 17.209GHz, Emax: 44.47dBμV/m, RBW: 1MHz



Appendix D

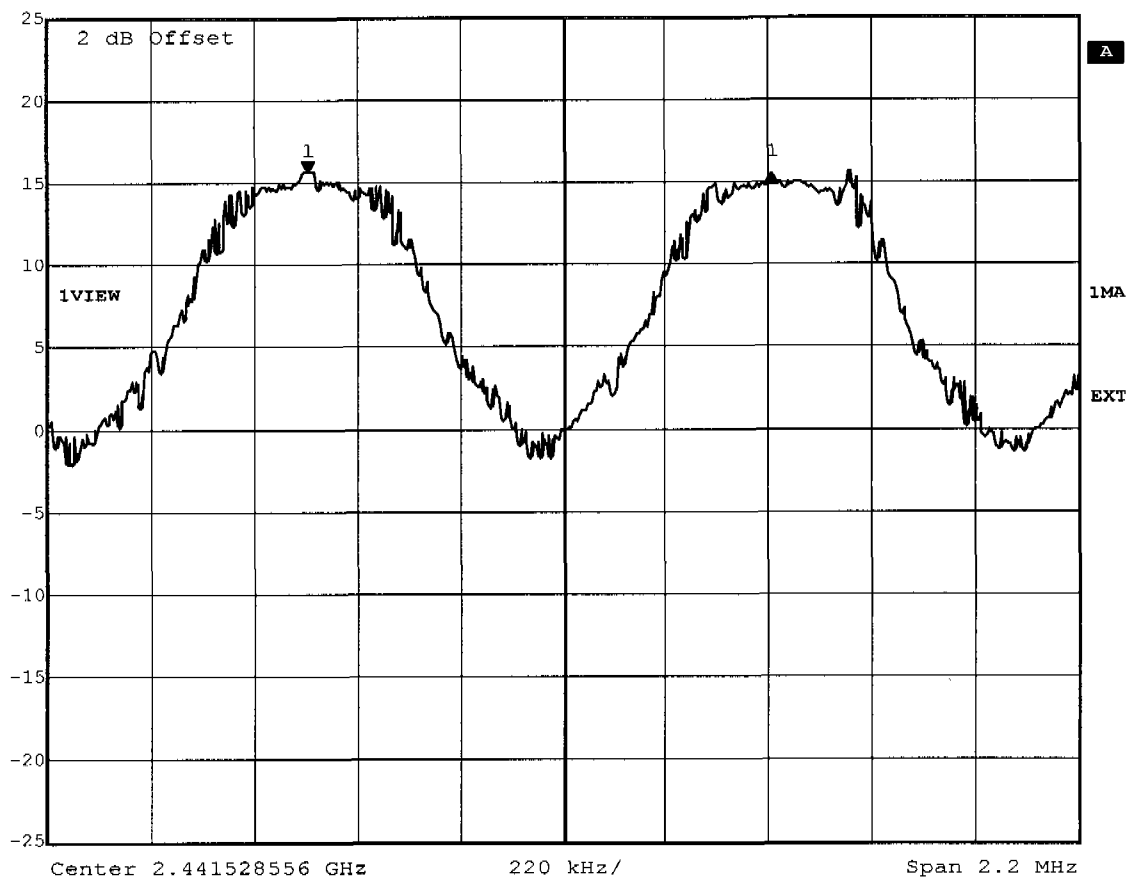
Spurious Emissions conducted - Transmitter operating

Appendix E

Carrier Frequency Separation



Delta 1 [T1] RBW 100 kHz RF Att 40 dB
Ref Lvl -0.14 dB VBW 100 kHz
25 dBm 991.98396794 kHz SWT 5 ms Unit dBm



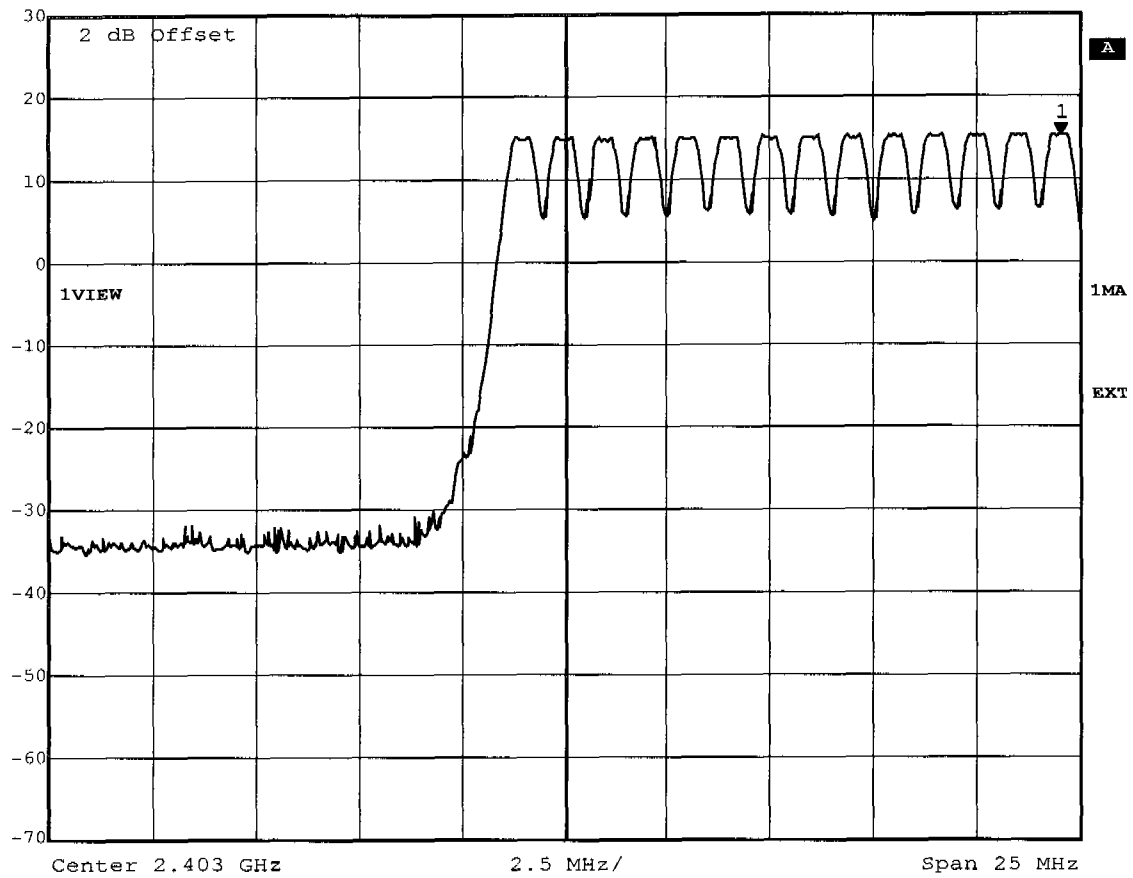
Title: Carrier Frequency Separation
Comment A: HPS-120
Date: 13.FEB.2004 14:46:34

Appendix F

Number of Hopping Frequencies



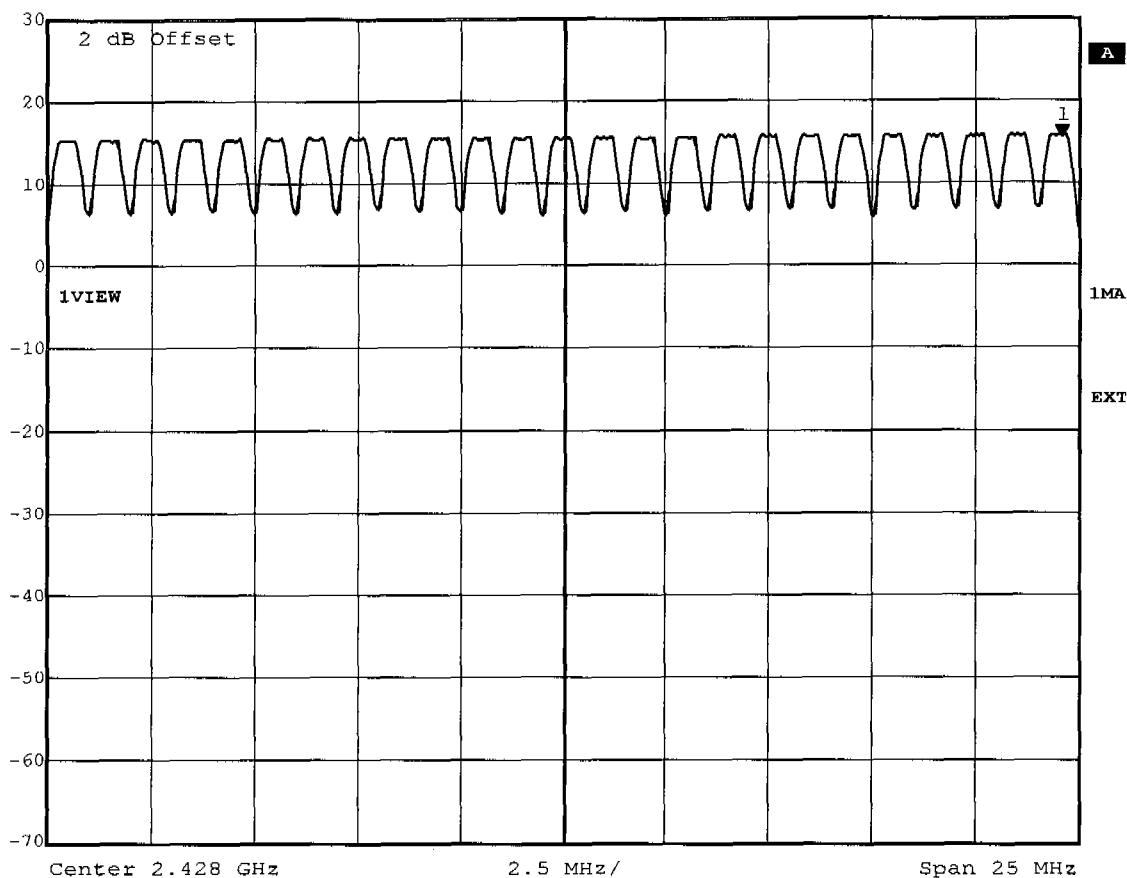
Marker 1 [T1] RBW 300 kHz RF Att 50 dB
Ref Lvl 15.07 dBm VBW 300 kHz
30 dBm 2.41504910 GHz SWT 5 ms Unit dBm



Title: Number of Hopping Frequencies Ch.: 0-13
Comment A: HPS-120
Date: 13.FEB.2004 14:57:43



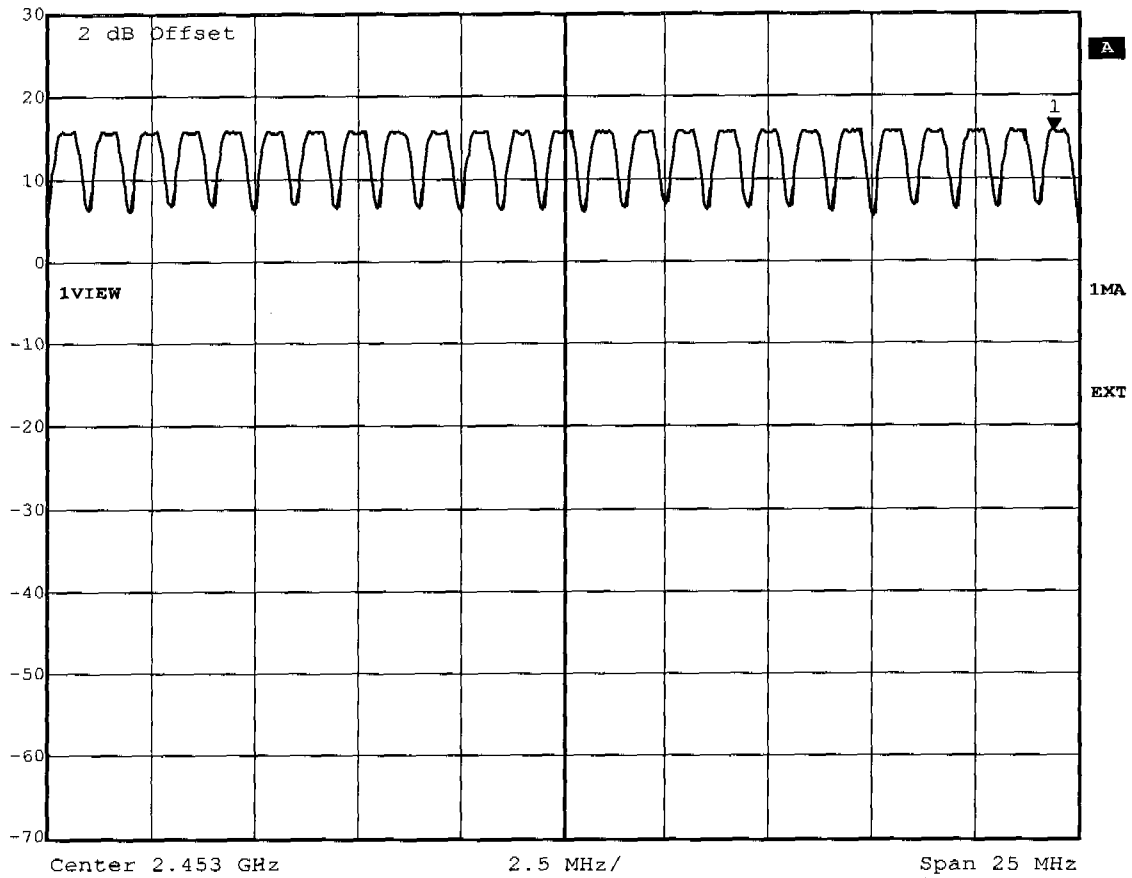
Marker 1 [T1] RBW 300 kHz RF Att 50 dB
Ref Lvl 15.28 dBm VBW 300 kHz
30 dBm 2.44009920 GHz SWT 5 ms Unit dBm



Title: Number of Hopping Frequencies Ch.: 14-38
Comment A: HPS-120
Date: 13.FEB.2004 15:02:01



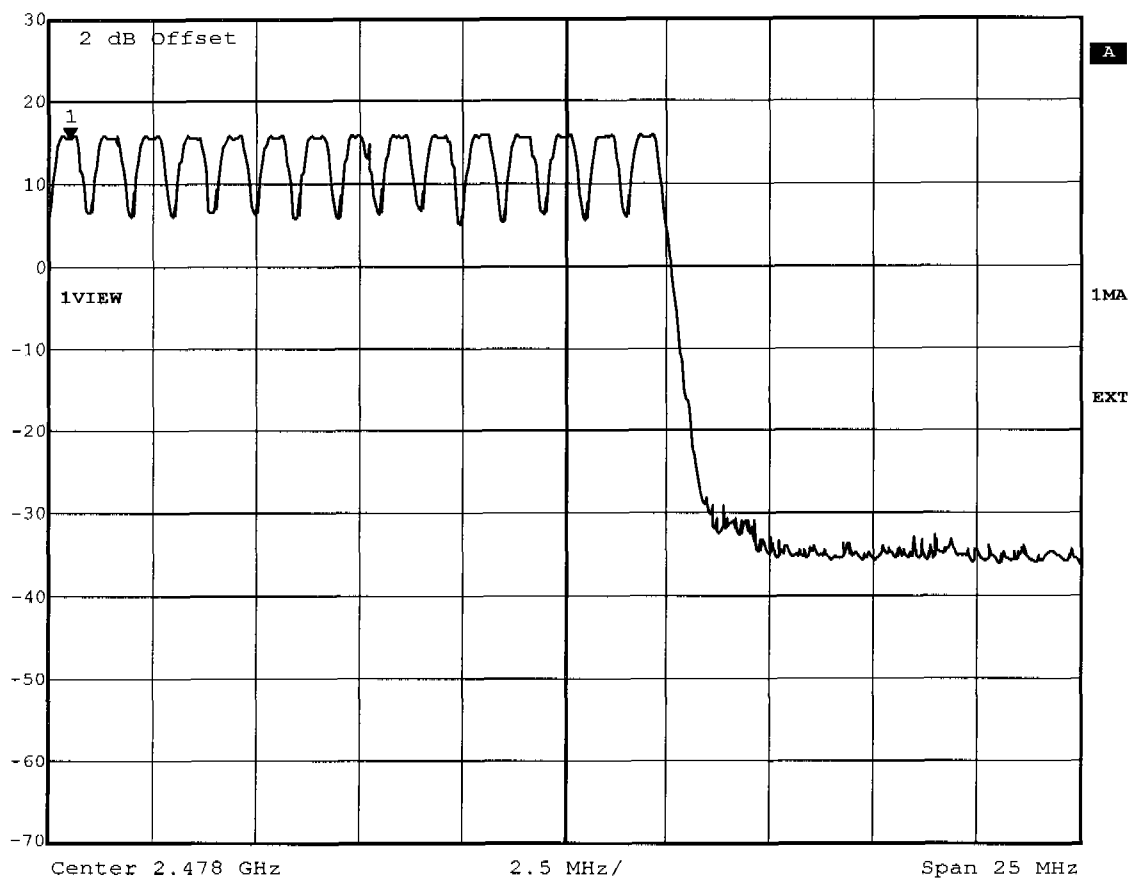
Marker 1 [T1] RBW 300 kHz RF Att 50 dB
Ref Lvl 15.71 dBm VBW 300 kHz
30 dBm 2.46489880 GHz SWT 5 ms Unit dBm



Title: Number of Hopping Frequencies Ch.: 39-63
Comment A: HPS-120
Date: 13.FEB.2004 15:04:35



Marker 1 [T1] RBW 300 kHz RF Att 50 dB
Ref Lvl 15.43 dBm VBW 300 kHz
30 dBm 2.46600100 GHz SWT 5 ms Unit dBm

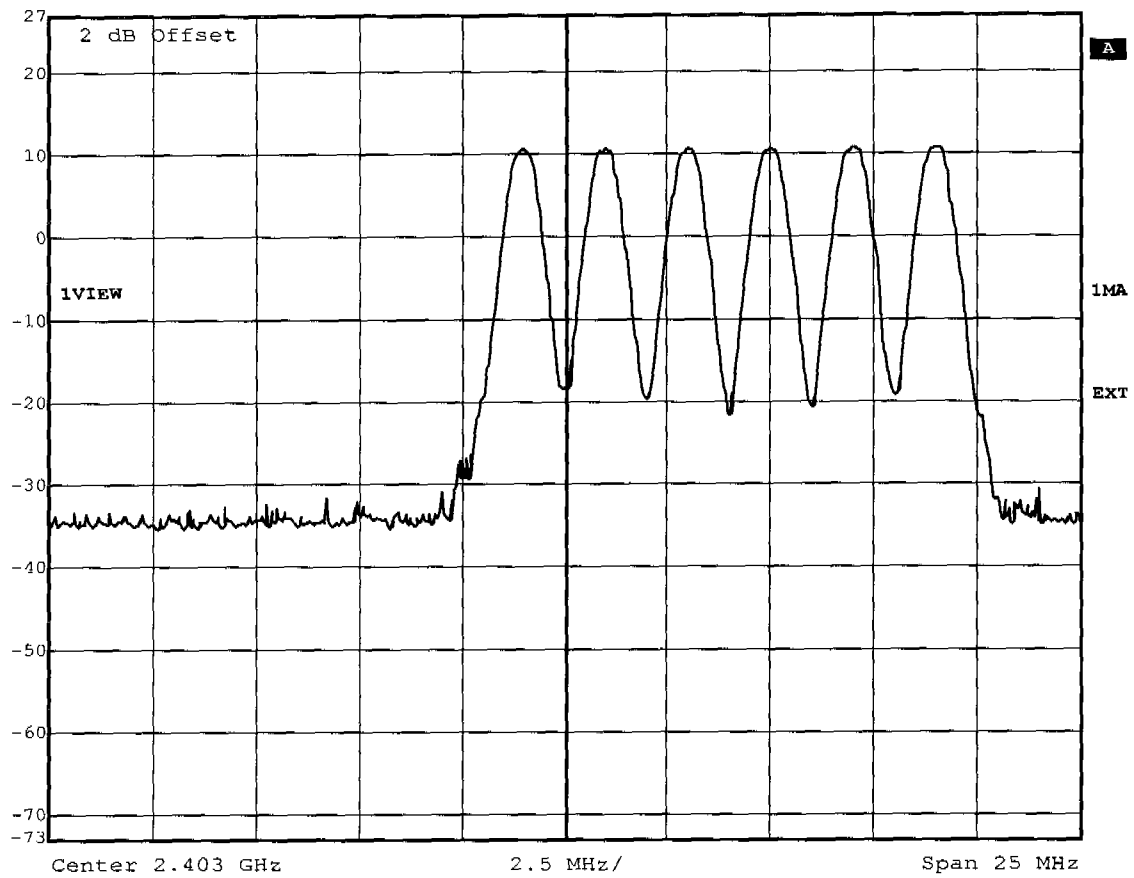


Title: Number of Hopping Frequencies Ch.: 64-78
Comment A: HPS-120
Date: 13.FEB.2004 15:06:00



Ref Lvl
27 dBm

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

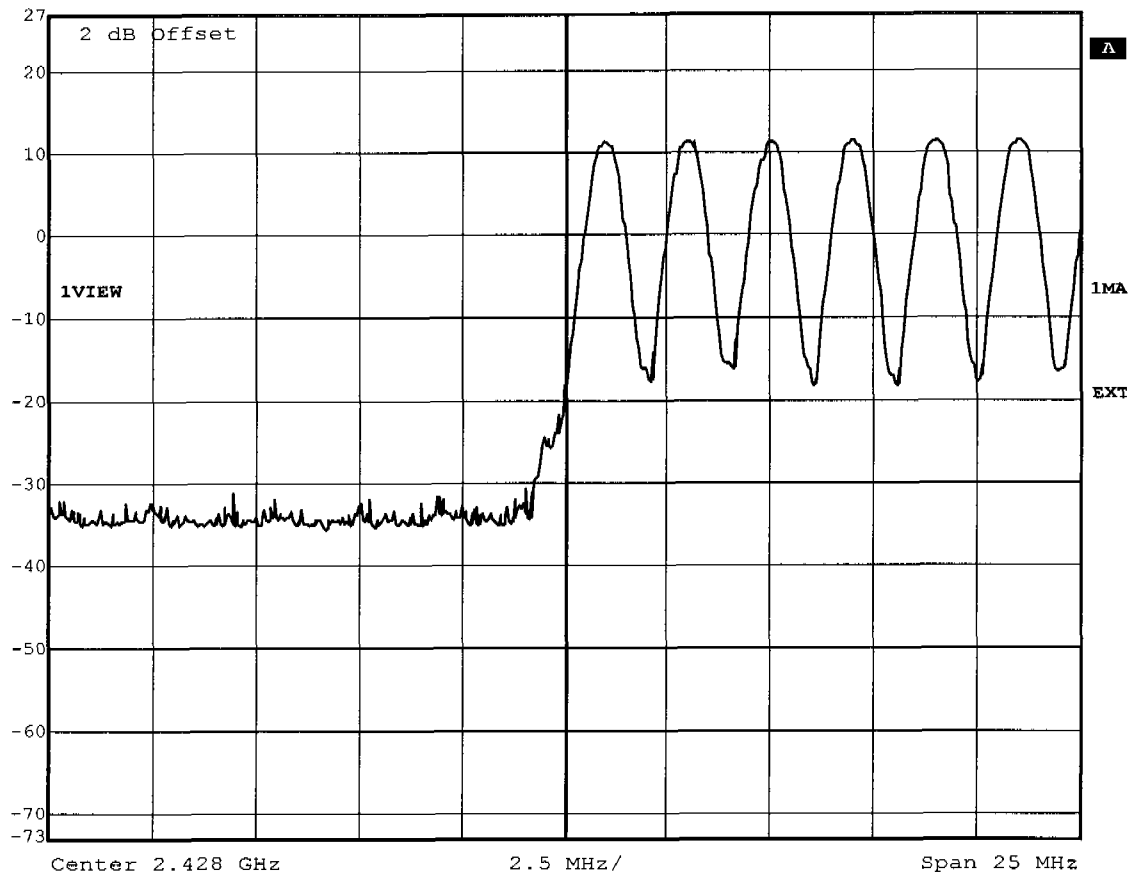


Title: Number of Hopping Frequencies (Master Inquiry Mode)
Comment A: HPS-120
Date: 13.FEB.2004 15:17:47



Ref Lvl
27 dBm

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



Title: Number of Hopping Frequencies (Master Inquiry Mode)

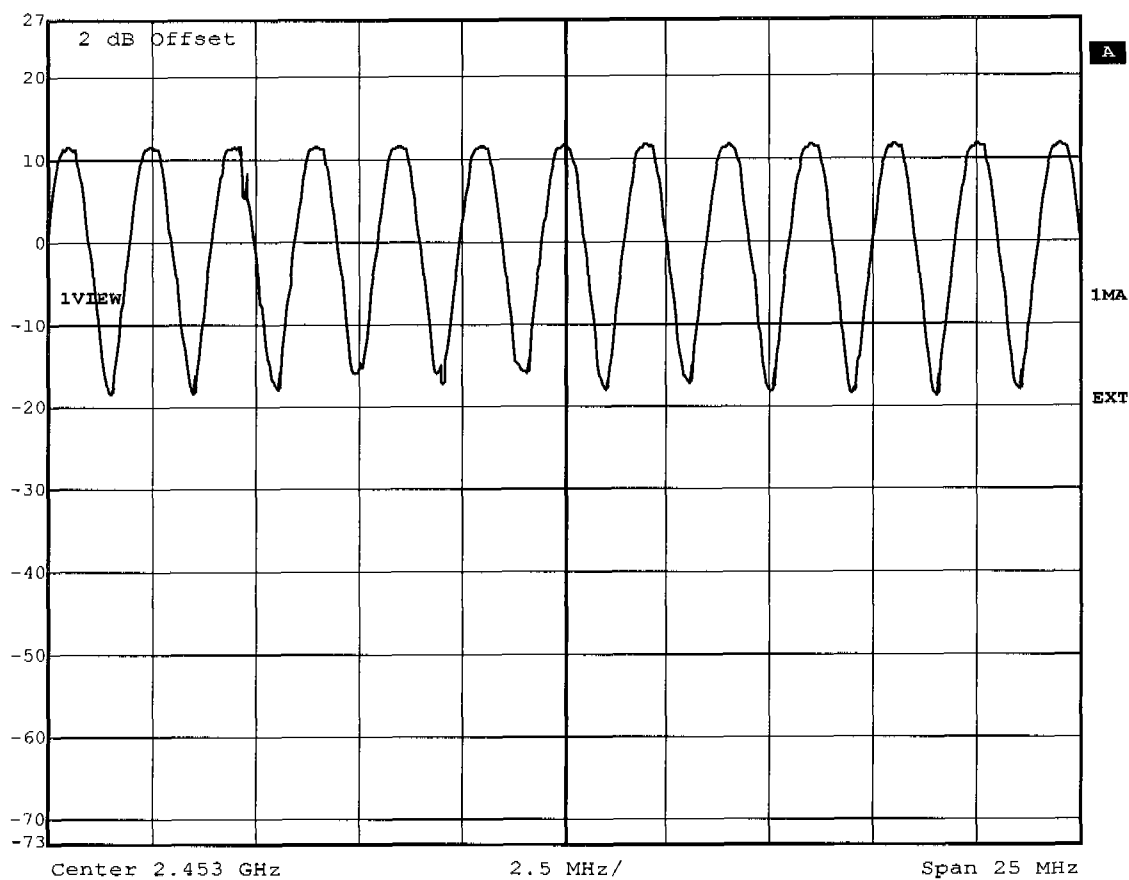
Comment A: HPS-120

Date: 13.FEB.2004 15:19:17



Ref Lvl
27 dBm

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



Title: Number of Hopping Frequencies (Master Inquiry Mode)

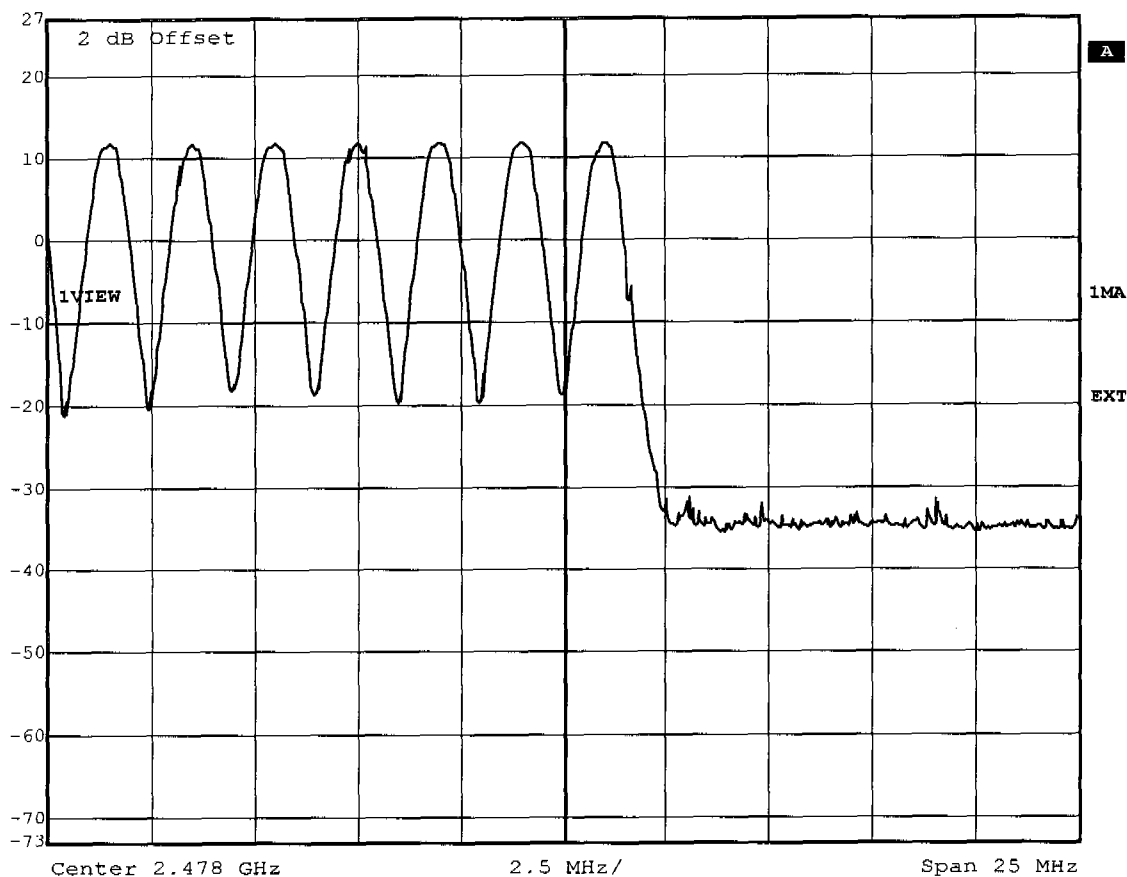
Comment A: HPS-120

Date: 13.FEB.2004 15:21:56



Ref Lvl
27 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: HPS-120

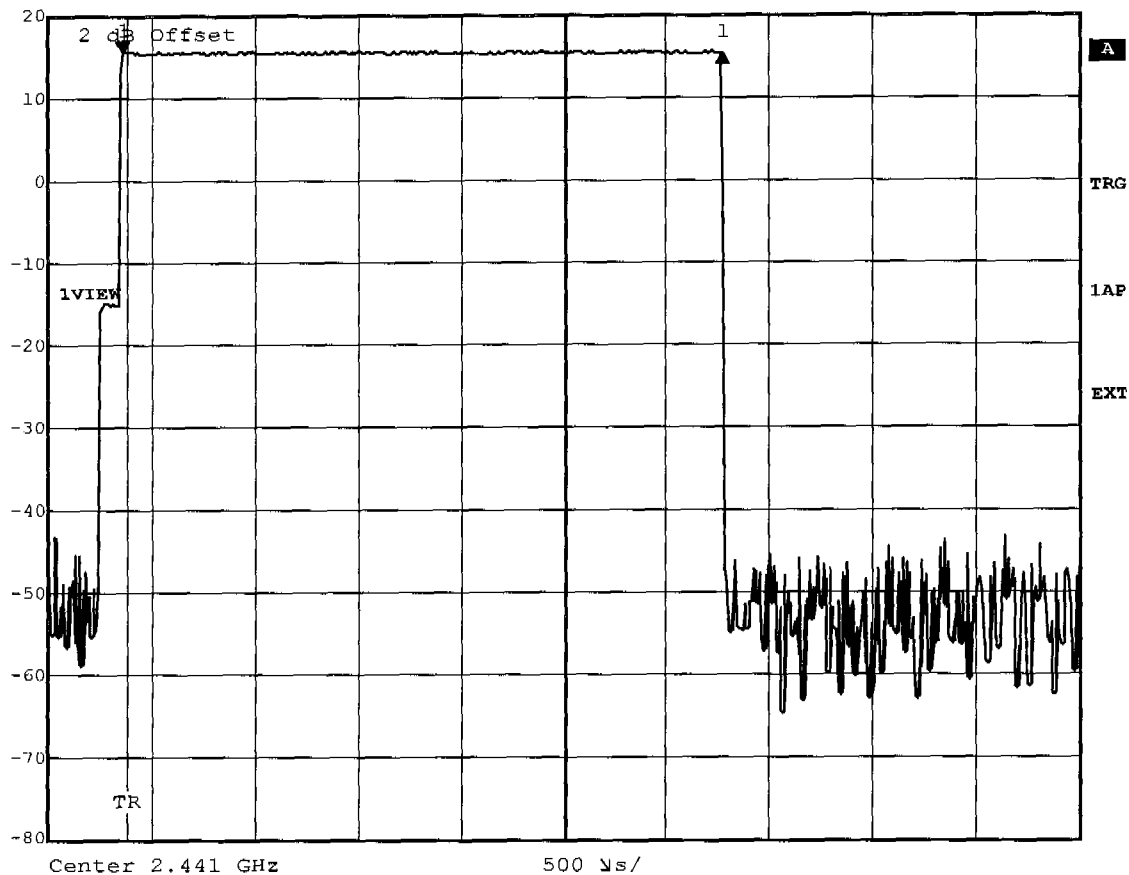
Date: 13.FEB.2004 15:28:07

Appendix G

Time of Occupancy (Dwell Time)



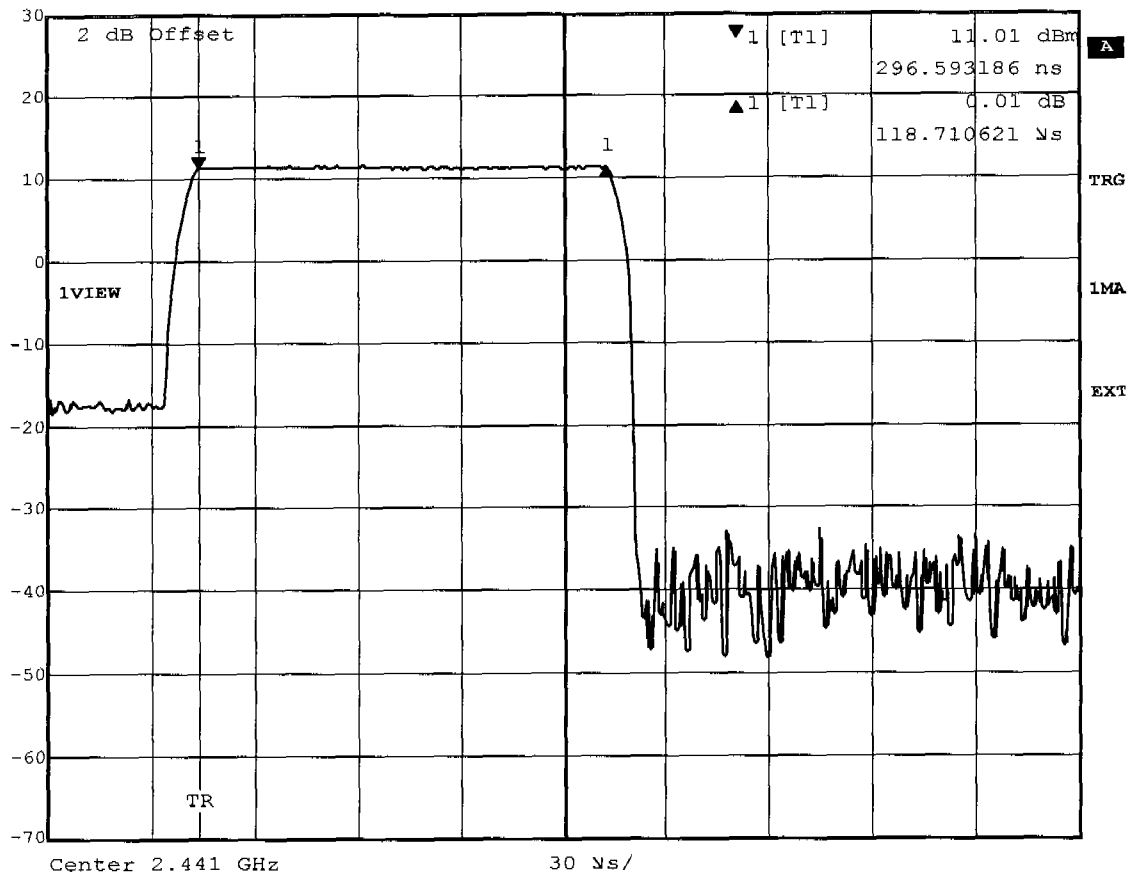
Delta 1 [T1] RBW 1 MHz RF Att 40 dB
Ref Lvl -0.14 dB VBW 1 MHz
20 dBm 2.922709 ms SWT 5 ms Unit dBm



Title: Time of occupancy (Hopping DH5) 64 events * 2.923ms=187.07ms
Comment A: HPS-120
Date: 13.FEB.2004 15:10:51



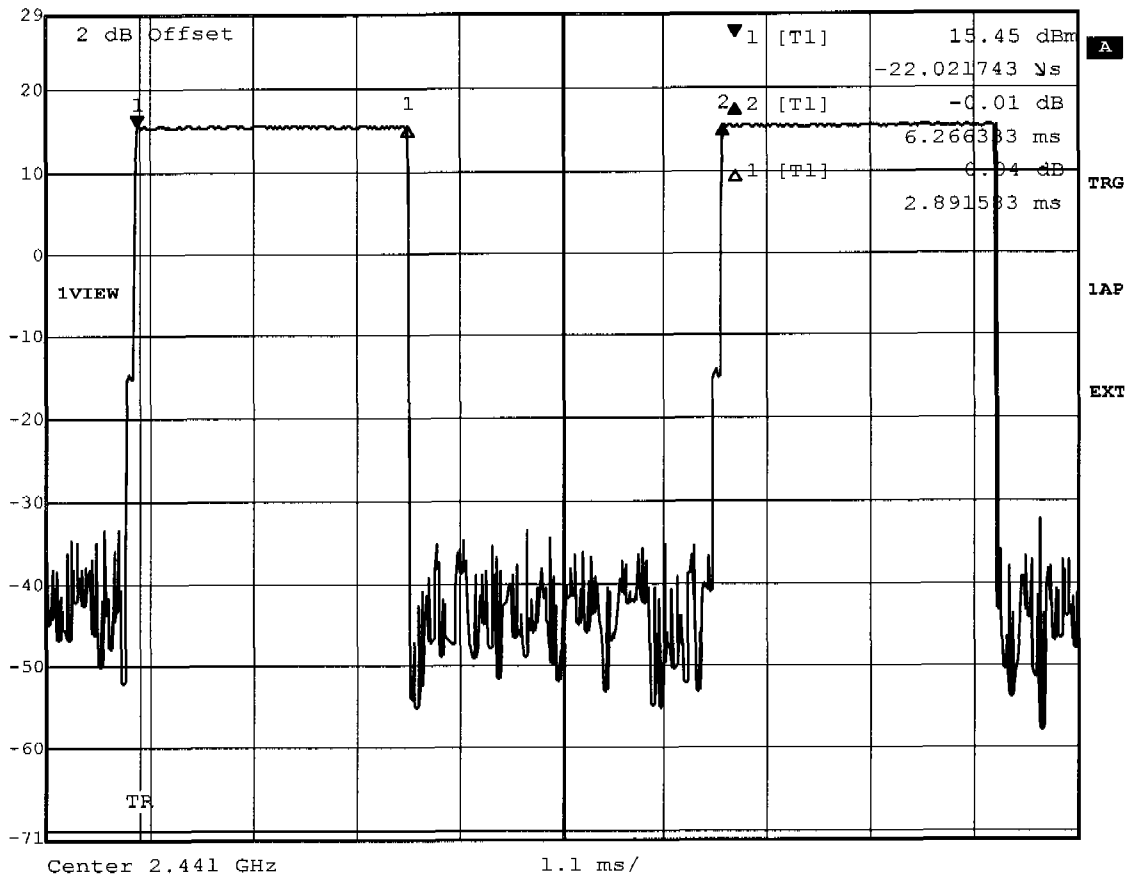
Delta 1 [T1] RBW 1 MHz RF Att 50 dB
Ref Lvl 0.01 dB VBW 1 MHz
30 dBm 118.710621 μ s SWT 300 μ s Unit dBm



Title: Time of occupancy (Inquiry mode) 643 events * 0.119ms=76.5ms
Comment A: HPS-120
Date: 13.FEB.2004 15:14:37



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



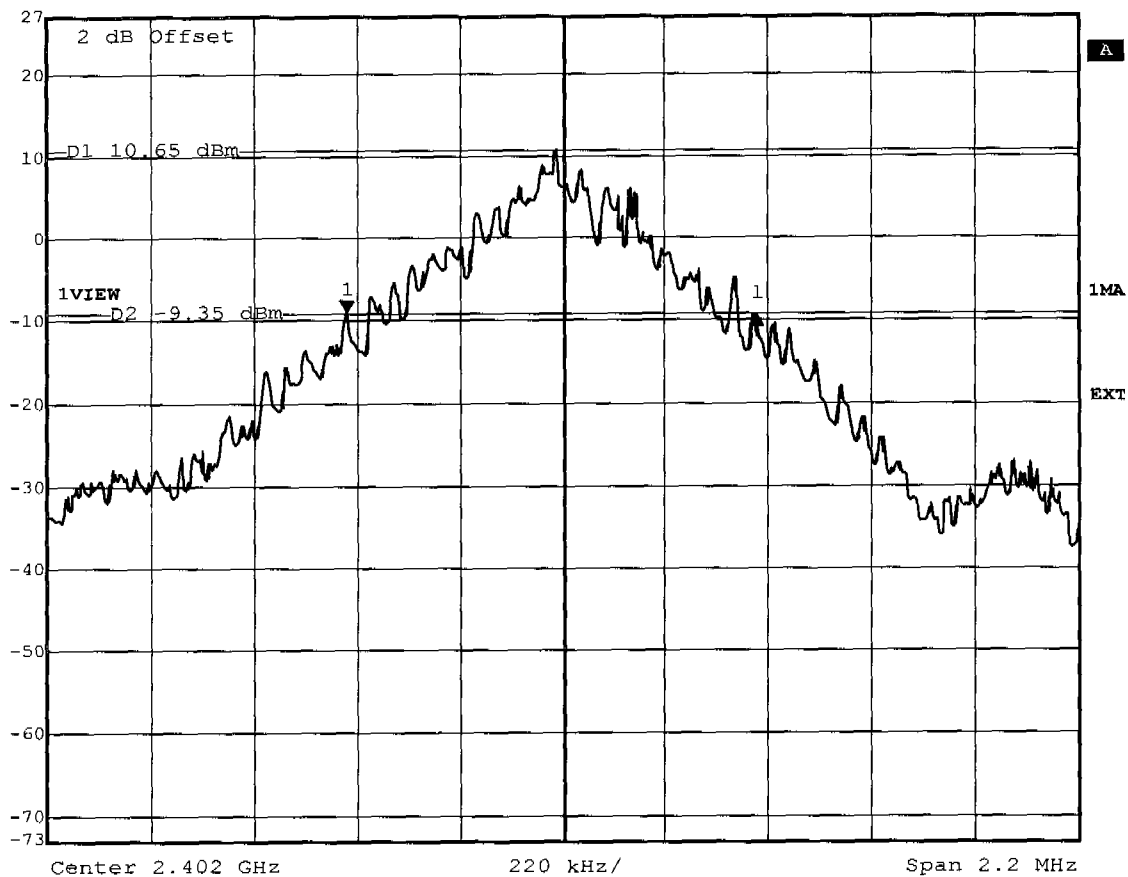
Title: Duty Cycle
Comment A: HPS-120
Date: 13.FEB.2004 14:08:55

Appendix H

20dB Bandwidth



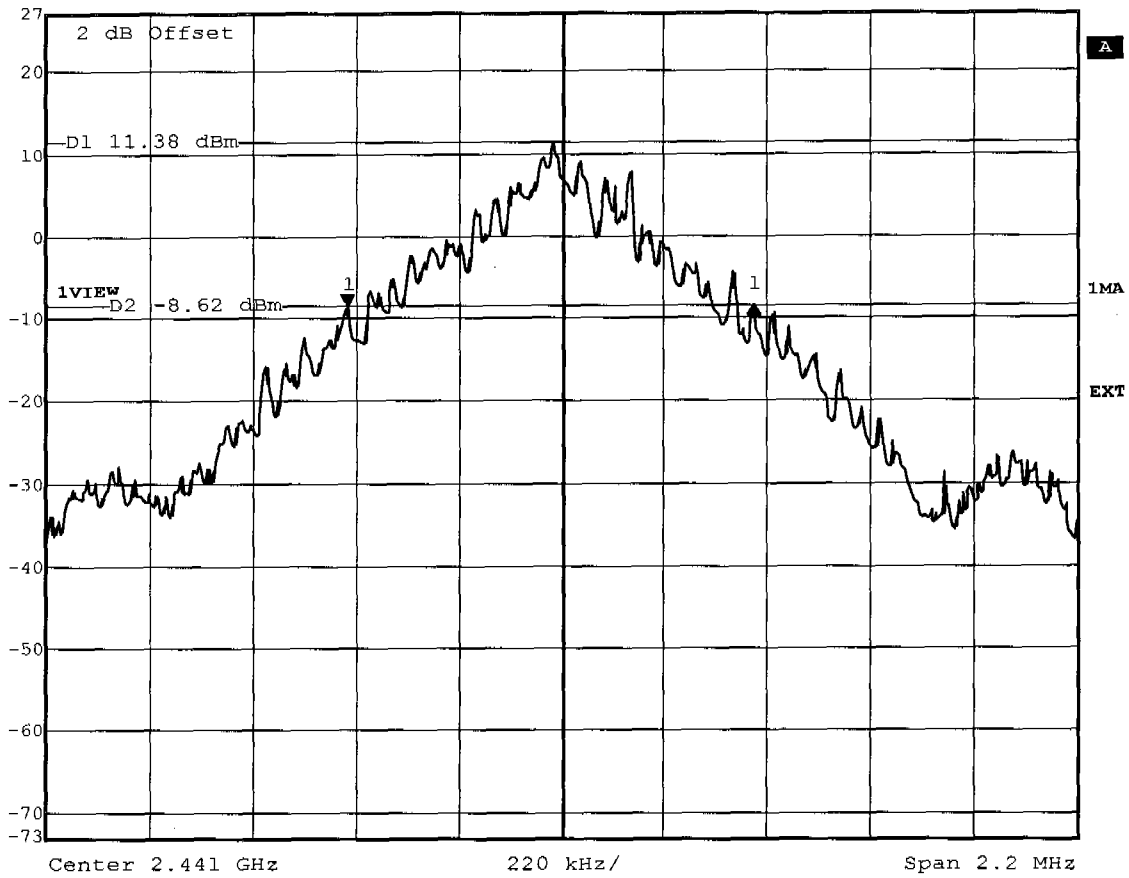
Delta 1 [T1] RBW 10 kHz RF Att 50 dB
Ref Lvl -0.31 dB VBW 10 kHz
27 dBm 877.35470942 kHz SWT 56 ms Unit dBm



Title: -20dB Bandwidth Ch.: 0
Comment A: HPS-120
Date: 13.FEB.2004 14:02:07



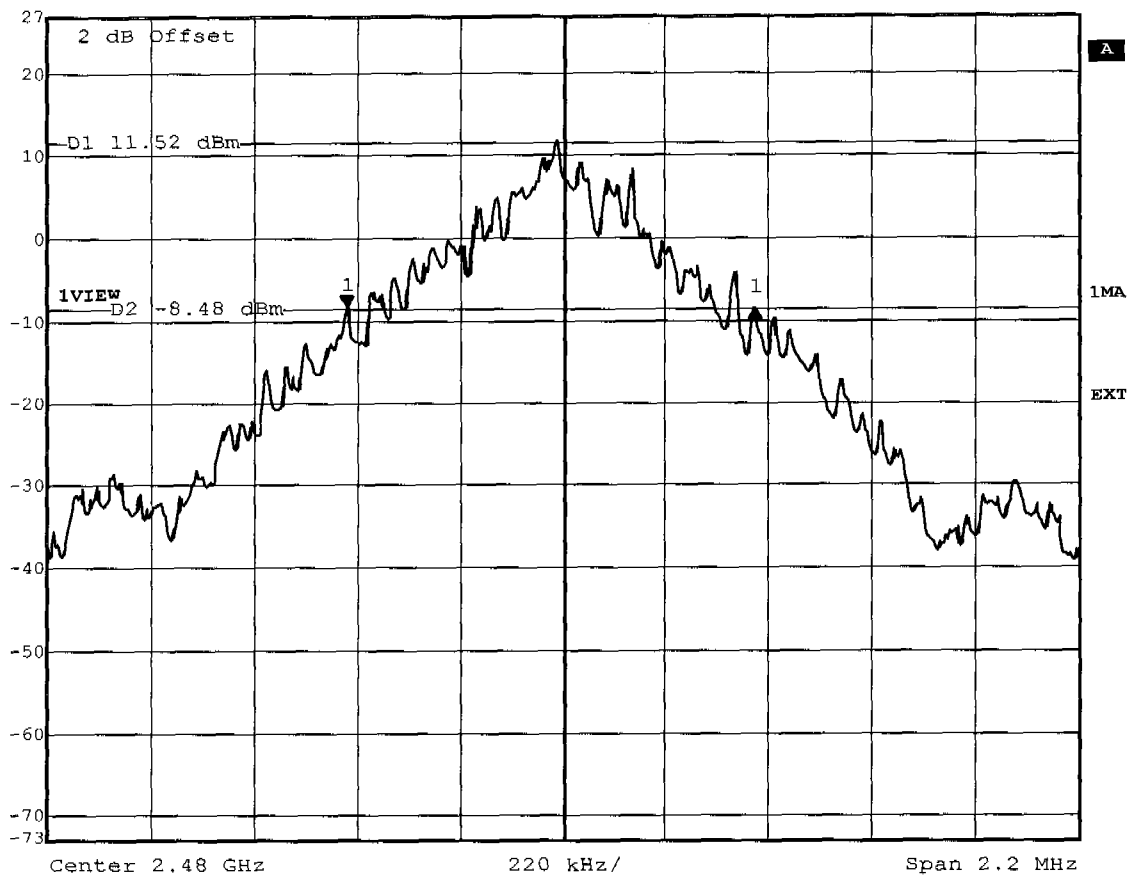
Delta 1 [T1] RBW 10 kHz RF Att 50 dB
Ref Lvl 0.04 dB VBW 10 kHz
27 dBm 868.53707415 kHz SWT 56 ms Unit dBm



Title: -20dB Bandwidth Ch.: 39
Comment A: HPS-120
Date: 13.FEB.2004 14:00:56



Delta 1 [T1] RBW 10 kHz RF Att 50 dB
Ref Lvl -0.19 dB VBW 10 kHz
27 dBm 872.94589178 kHz SWT 56 ms Unit dBm



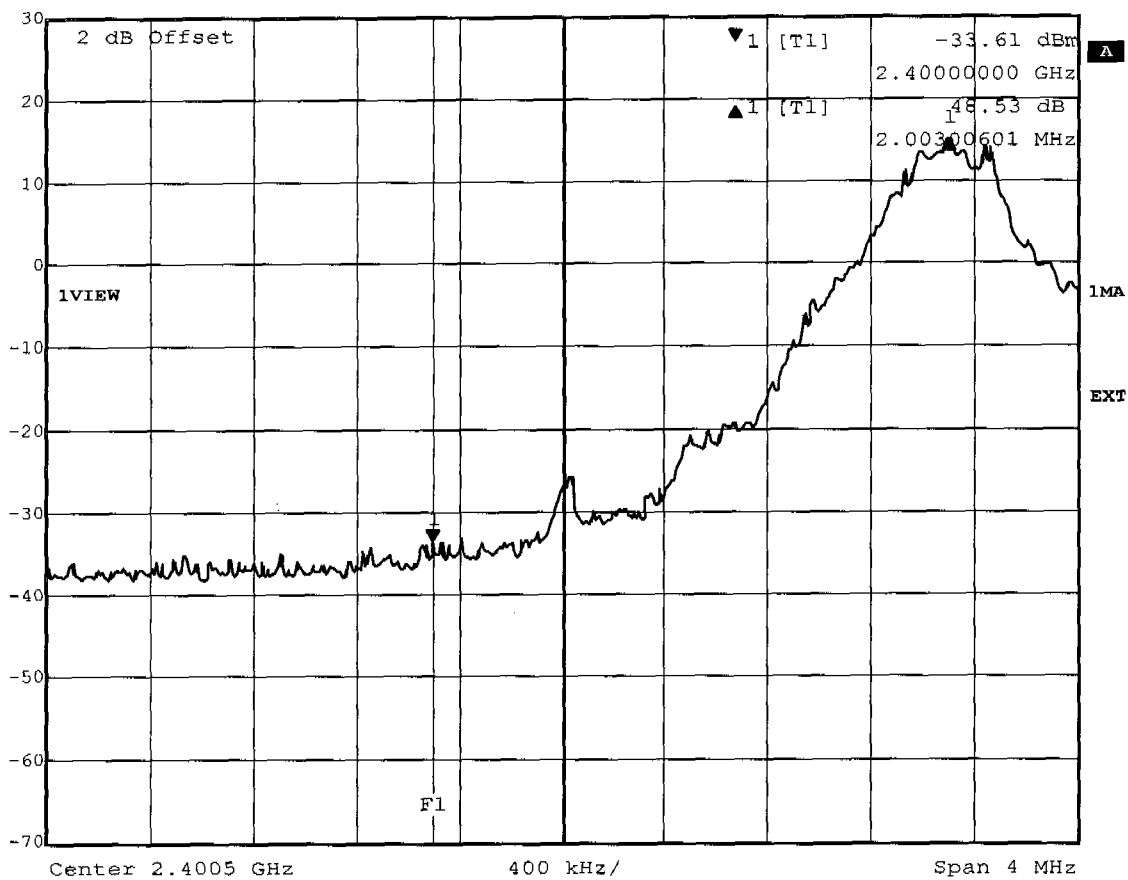
Title: -20dB Bandwidth Ch.: 78
Comment A: HPS-120
Date: 13.FEB.2004 13:59:51

Appendix I

Band-edge Compliance of RF Emissions



Delta 1 [T1] RBW 50 kHz RF Att 50 dB
Ref Lvl 48.53 dB VBW 50 kHz
30 dBm 2.00300601 MHz SWT 5 ms Unit dBm



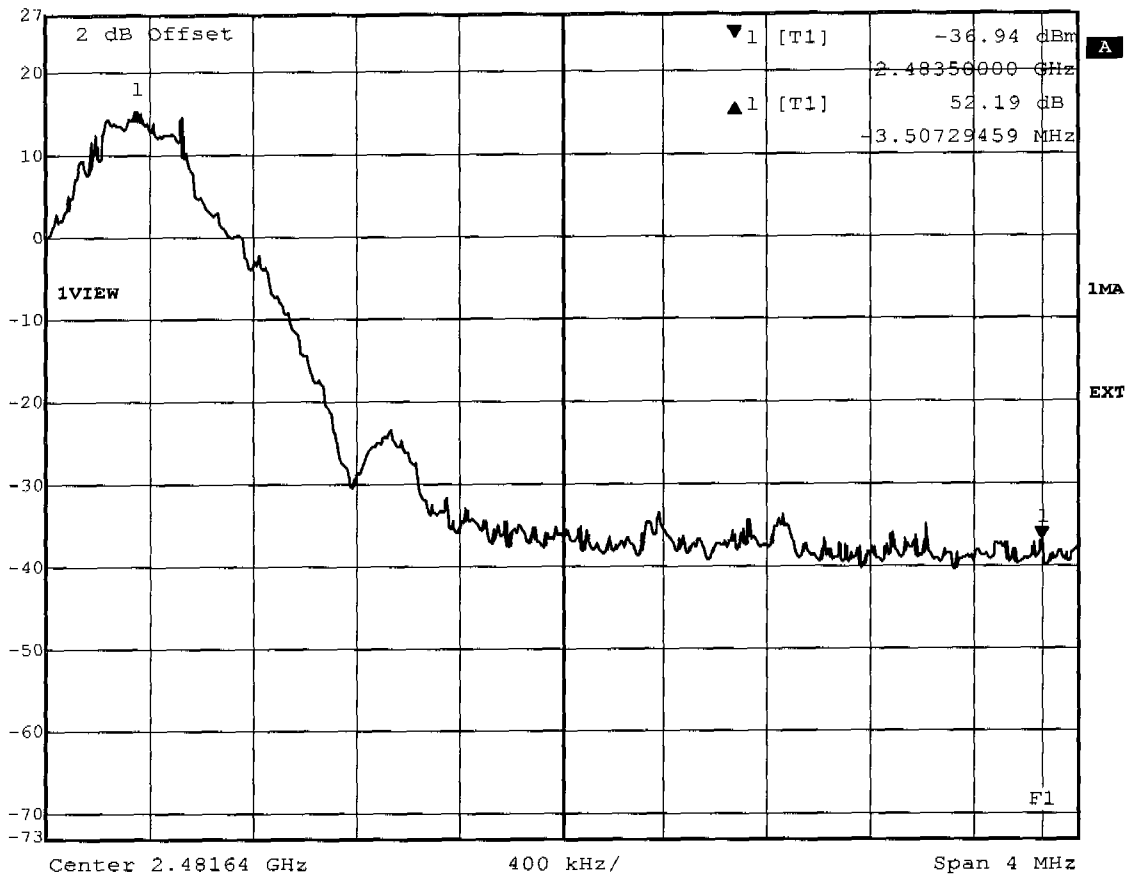
Title: Band-edge Compliance (conducted, single frequency)

Comment A: HPS-120

Date: 13.FEB.2004 14:05:04



Delta 1 [T1] RBW 50 kHz RF Att 50 dB
Ref Lvl 52.19 dB VBW 50 kHz
27 dBm -3.50729459 MHz SWT 5 ms Unit dBm



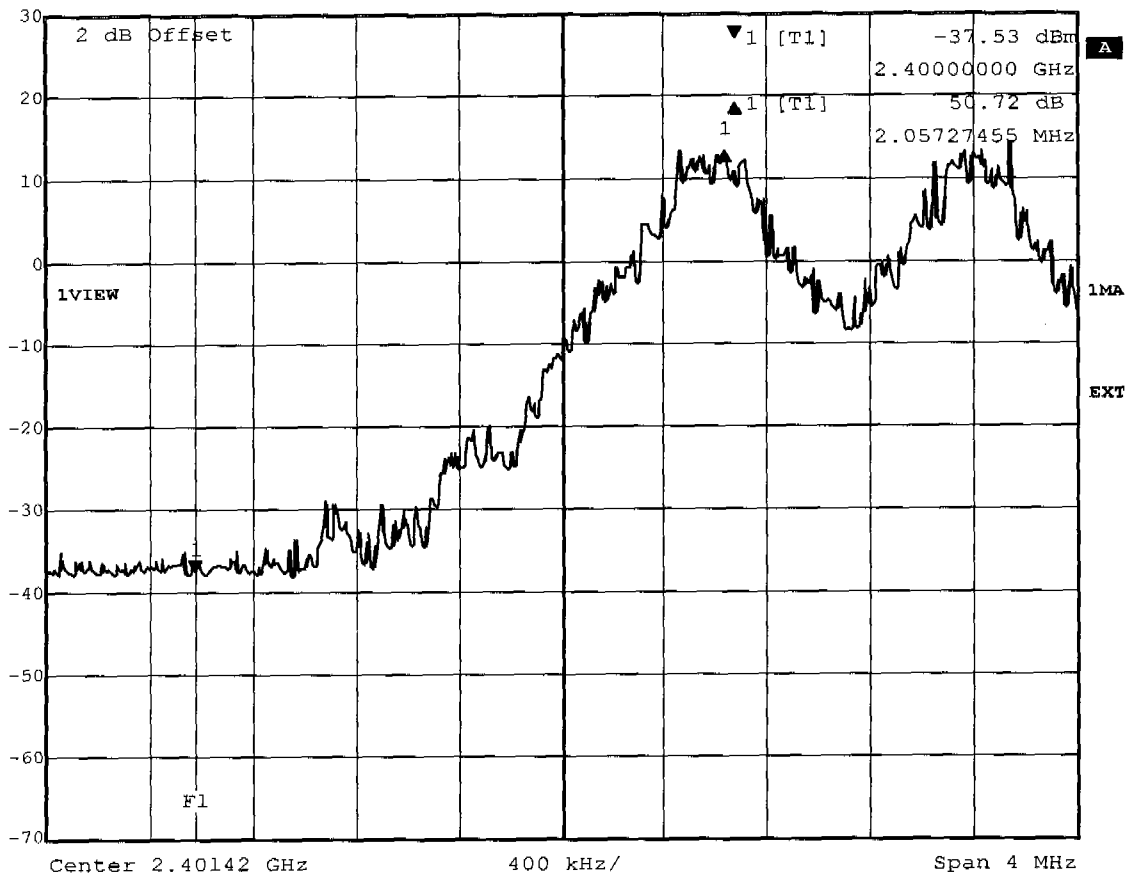
Title: Band-edge Compliance (conducted, single frequency)

Comment A: HPS-120

Date: 13.FEB.2004 14:06:16



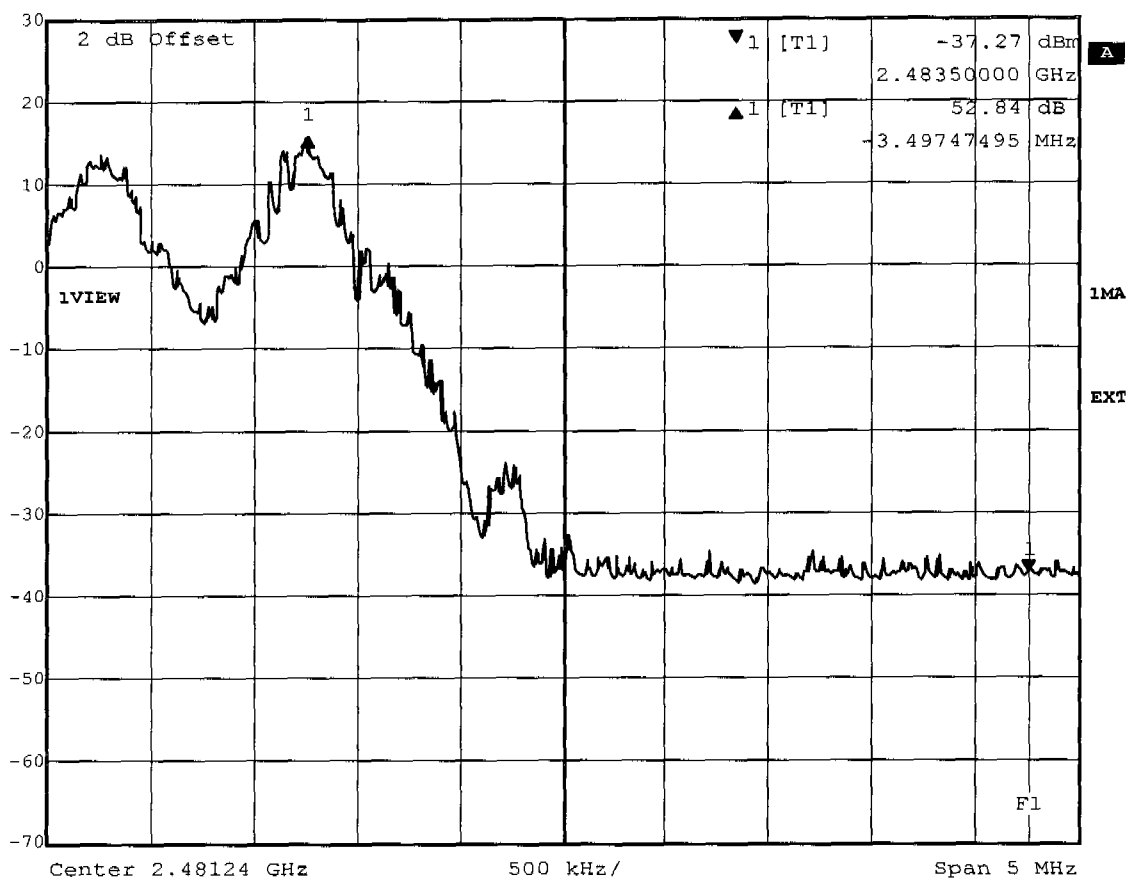
Delta 1 [T1] RBW 50 kHz RF Att 50 dB
Ref Lvl 50.72 dB VBW 50 kHz
30 dBm 2.05727455 MHz SWT 5 ms Unit dBm



Title: Band-edge Compliance (conducted, hopping mode)
Comment A: HPS-120
Date: 13.FEB.2004 14:16:12



Delta 1 [T1] RBW 50 kHz RF Att 50 dB
Ref Lvl 52.84 dB VBW 50 kHz
30 dBm -3.49747495 MHz SWT 5 ms Unit dBm



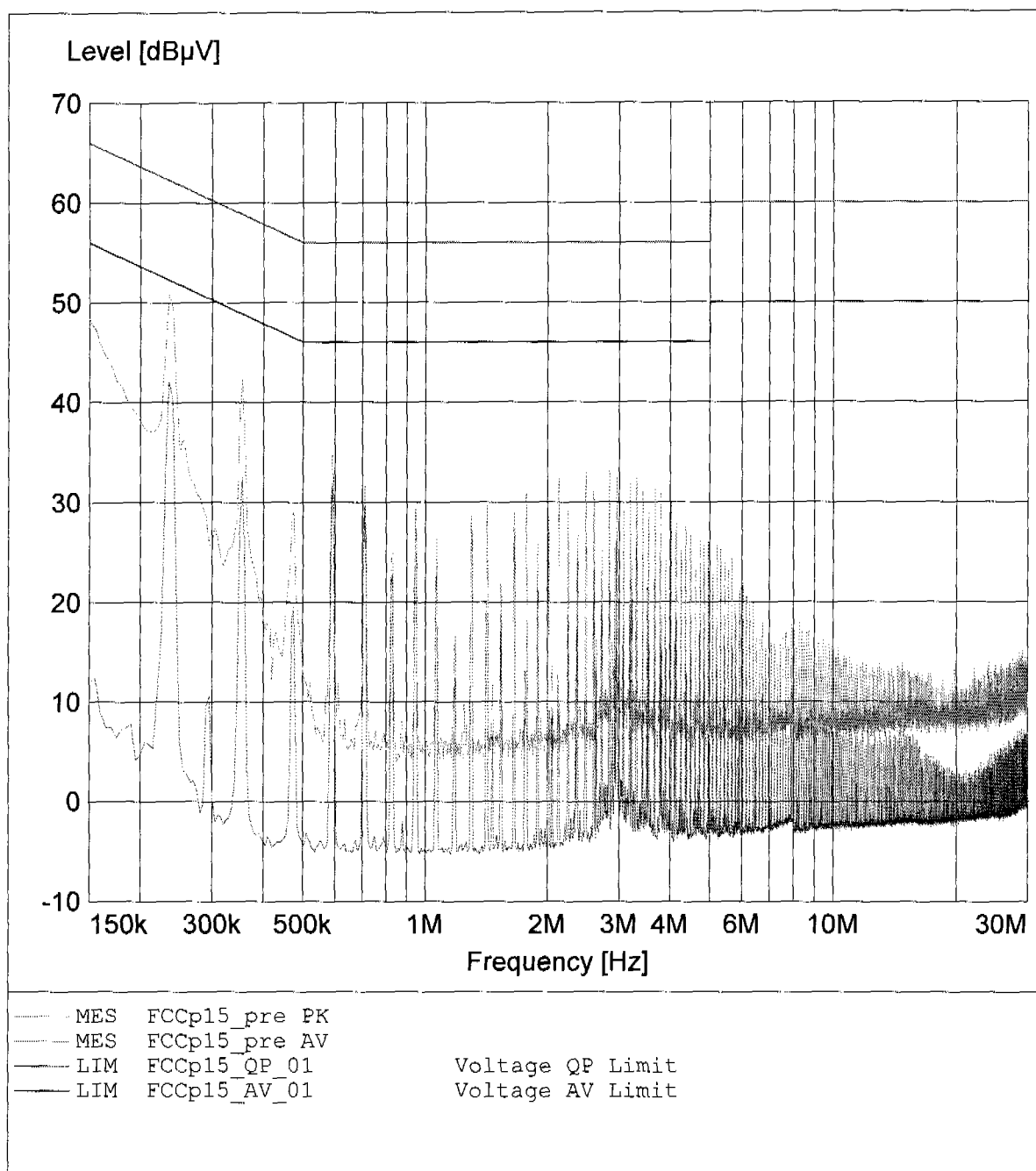
Title: Band-edge Compliance (conducted, hopping mode)
Comment A: HPS-120
Date: 13.FEB.2004 14:18:43

Appendix J

Conducted Measurement at (AC) Power Line

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

EUT: Wireless serial adaptor
Manufacturer: HandyWave Co., Ltd
Operating Condition: Unom: 120 VAC (AC/DC-adaptor), Tnom: 23°C
Test Site: ETS
Operator: Mr. Marquardt
Test Specification: V-Network: ESH2-Z5 (L1)
Comment: model: HPS-120
Notebook model: Panasonic CF-27



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

EUT: Wireless serial adaptor
Manufacturer: HandyWave Co., Ltd
Operating Condition: Unom: 120 VAC (AC/DC-adaptor), Thom: 23°C
Test Site: ETS
Operator: Mr. Marquardt
Test Specification: V-Network: ESH2-Z5 (N)
Comment: model: HPS-120
Notebook model: Panasonic CF-27

