

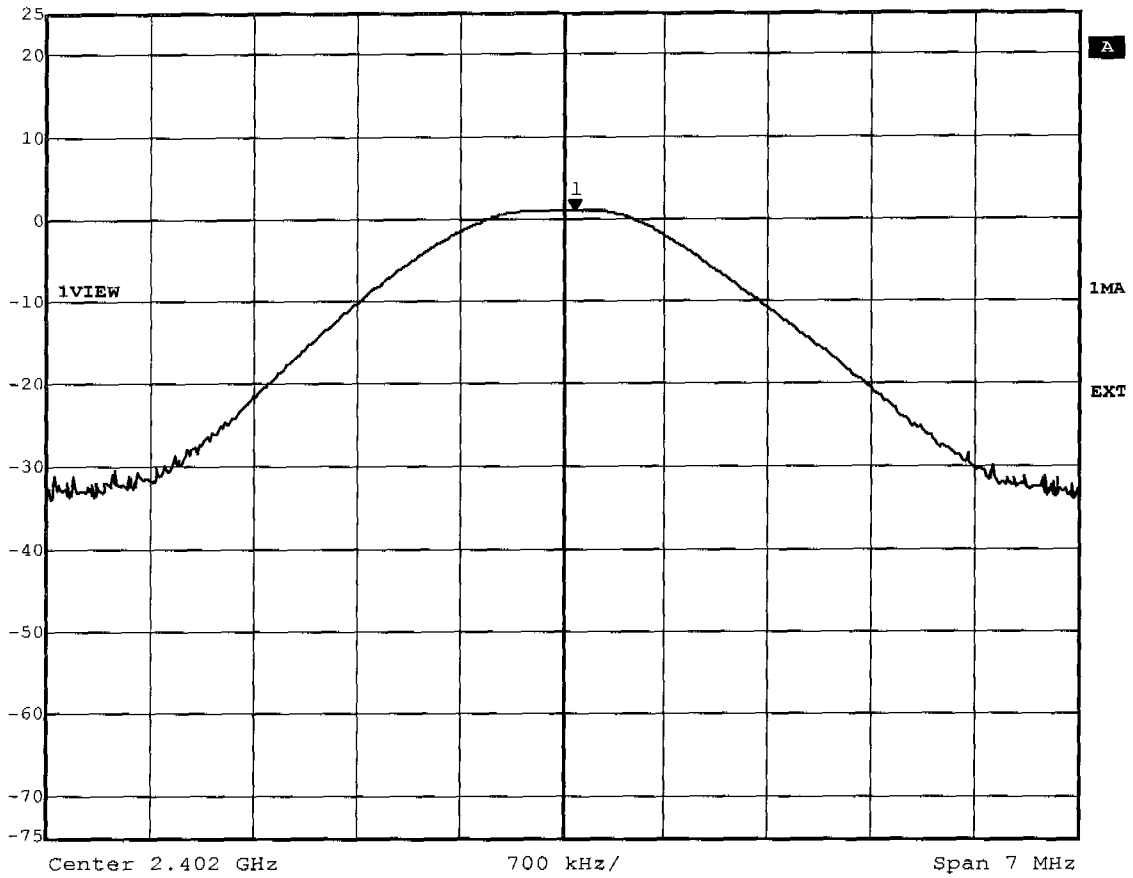


## Appendix B

Peak Output Power



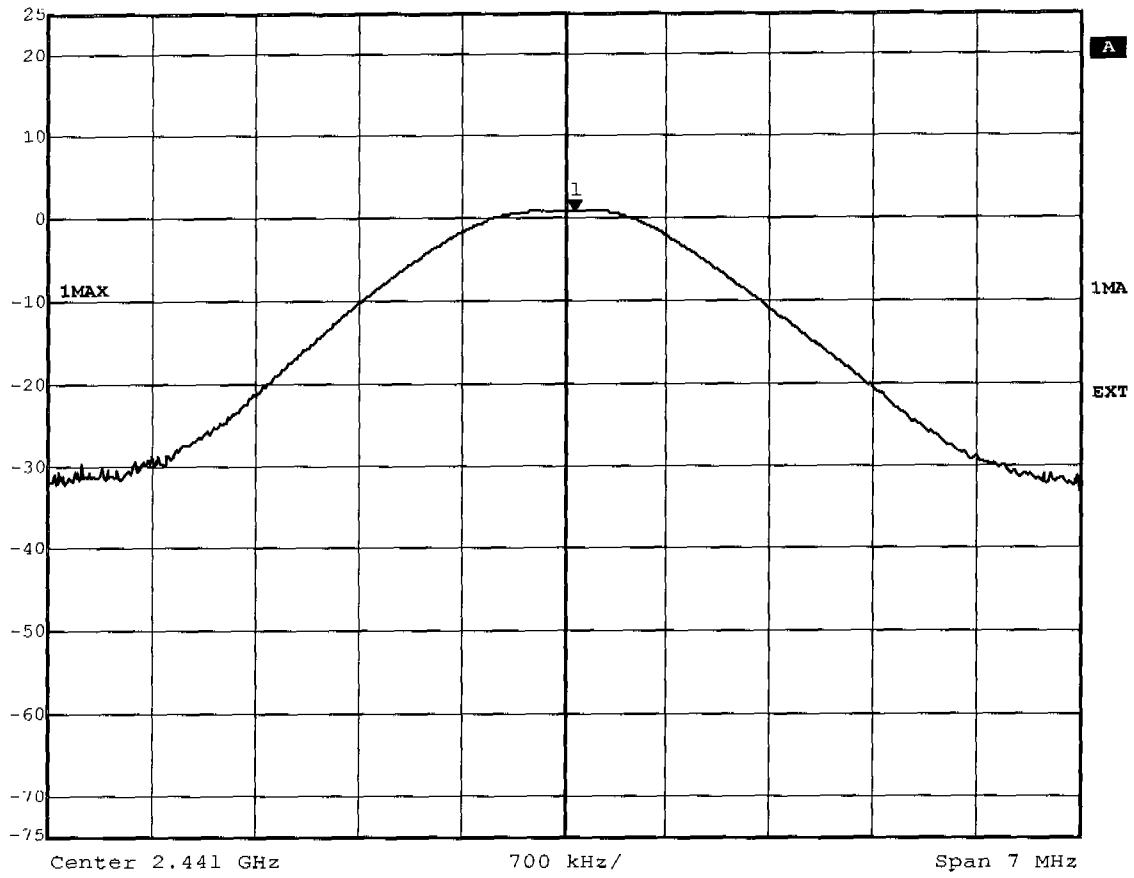
Marker 1 [T1]	RBW	1 MHz	RF Att	50 dB
Ref Lvl	0.99 dBm	VBW	1 MHz	
25 dBm	2.40209118 GHz	SWT	5 ms	Unit dBm



Title: Peak Output Power conducted Ch.: 0  
Comment A: HS820  
Date: 4.MAR.2004 09:29:38



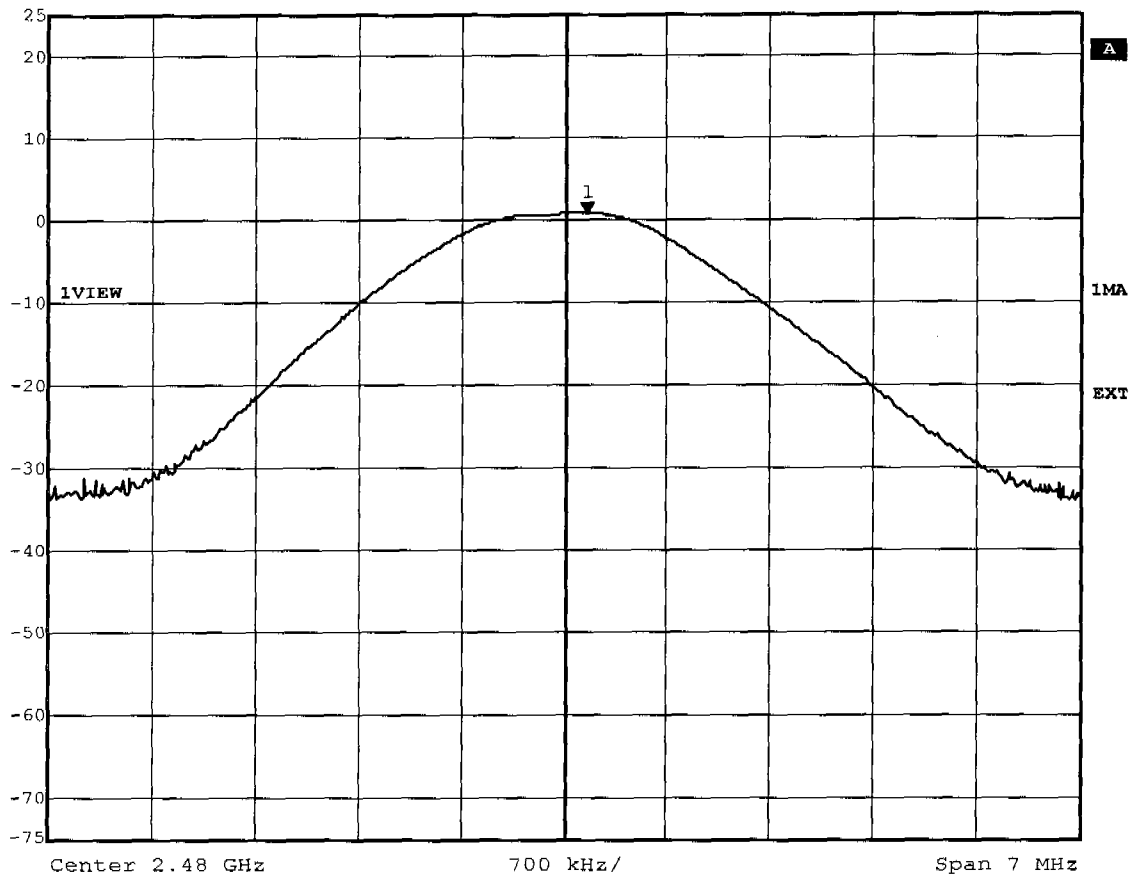
Marker 1 [T1]	RBW	1 MHz	RF Att	50 dB
Ref Lvl	0.69 dBm	VBW	1 MHz	
25 dBm	2.44107715 GHz	SWT	5 ms	Unit dBm



Title: Peak Output Power conducted Ch.: 39  
Comment A: HS820  
Date: 4.MAR.2004 09:28:29



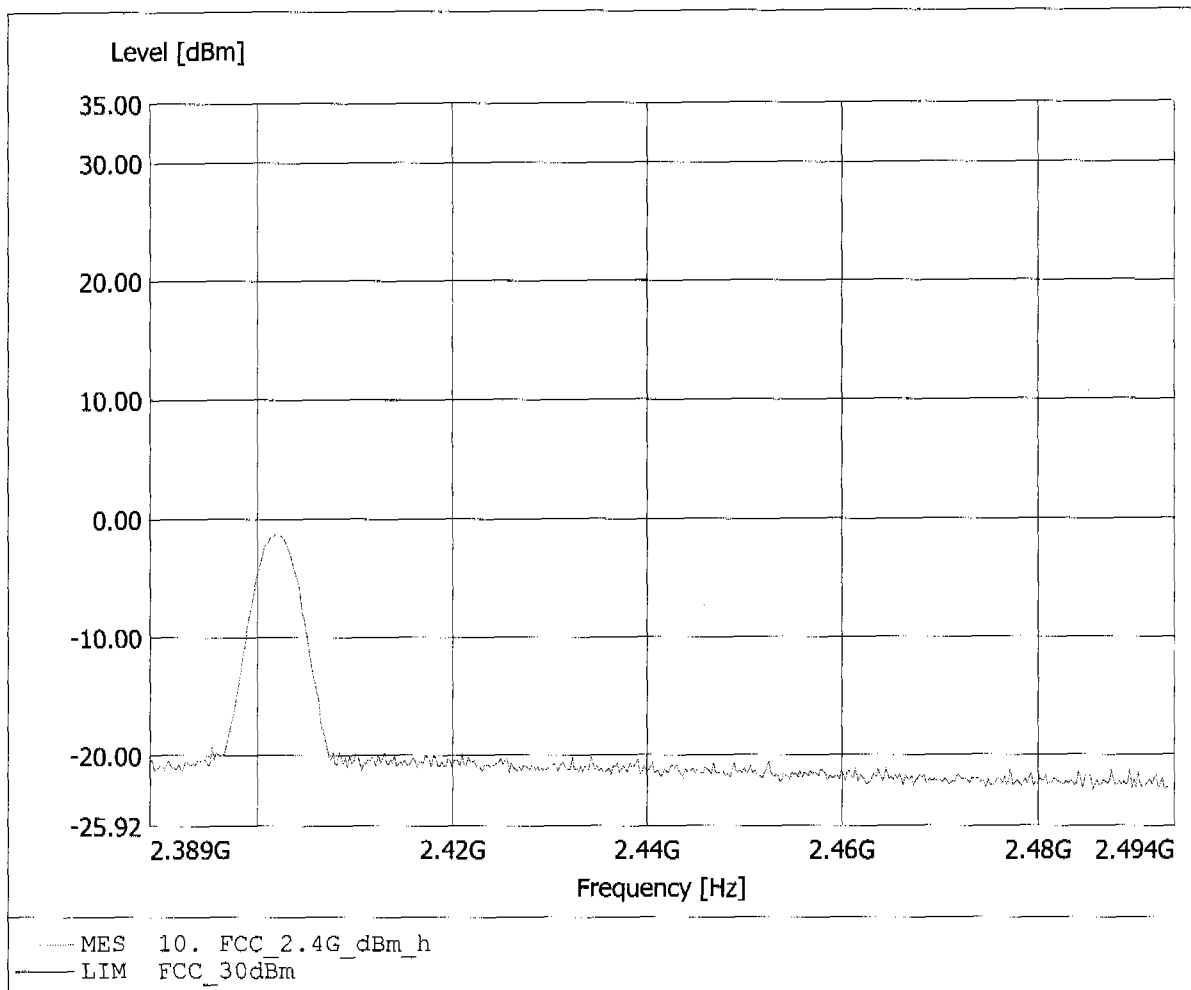
Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	50 dB
25 dBm	0.60 dBm	VBW	1 MHz		
	2.48016132 GHz	SWT	5 ms	Unit	dBm



Title: Peak Output Power conducted Ch.: 78  
Comment A: HS820  
Date: 4.MAR.2004 09:29:06

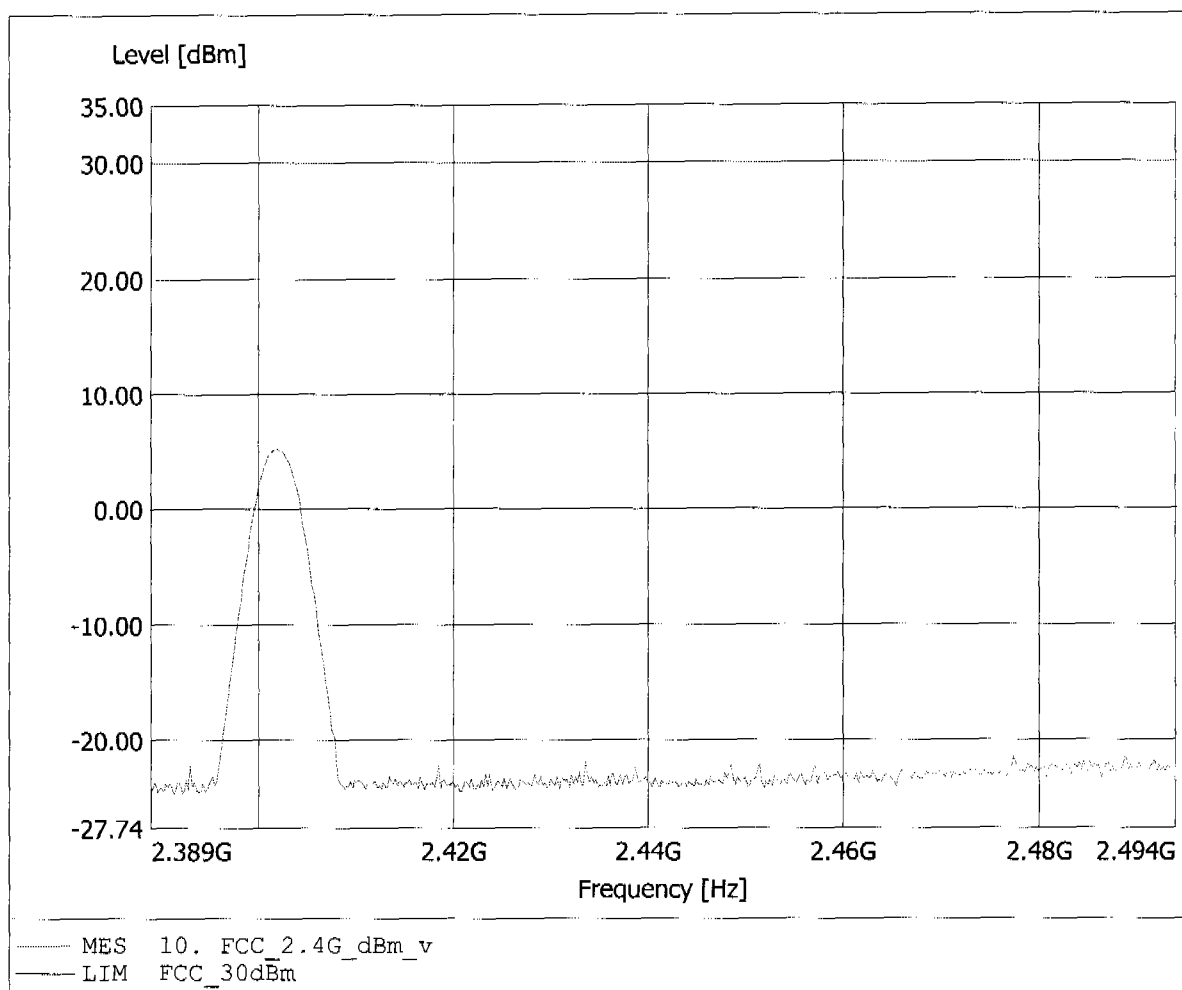
**Carrier power (dBm)**  
**FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2402MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.402GHz, Pmax: -1.31dBm, RBW: 5MHz



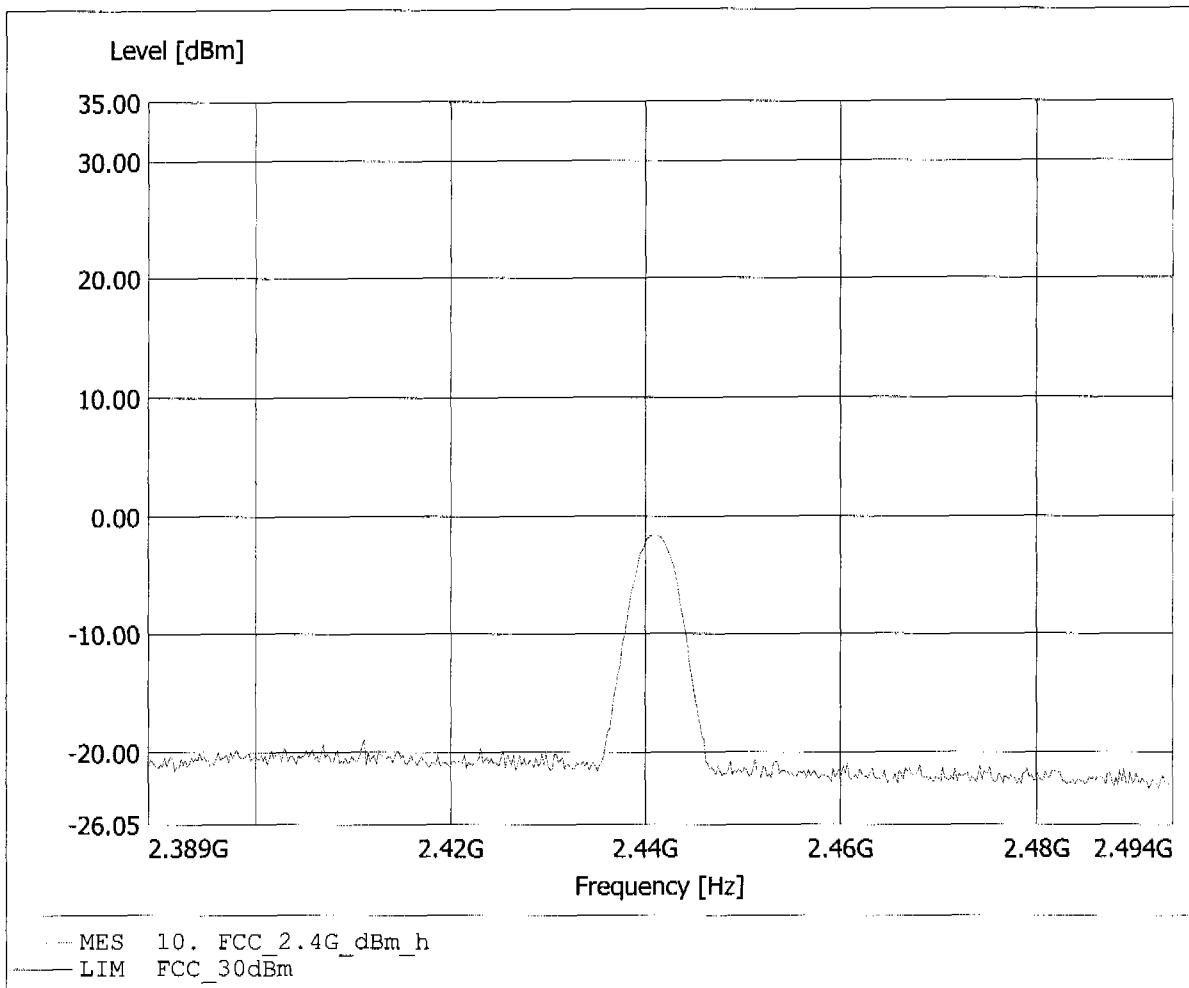
**Carrier power (dBm)**  
**FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2402MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.402GHz, Pmax: 5.17dBm, RBW: 5MHz



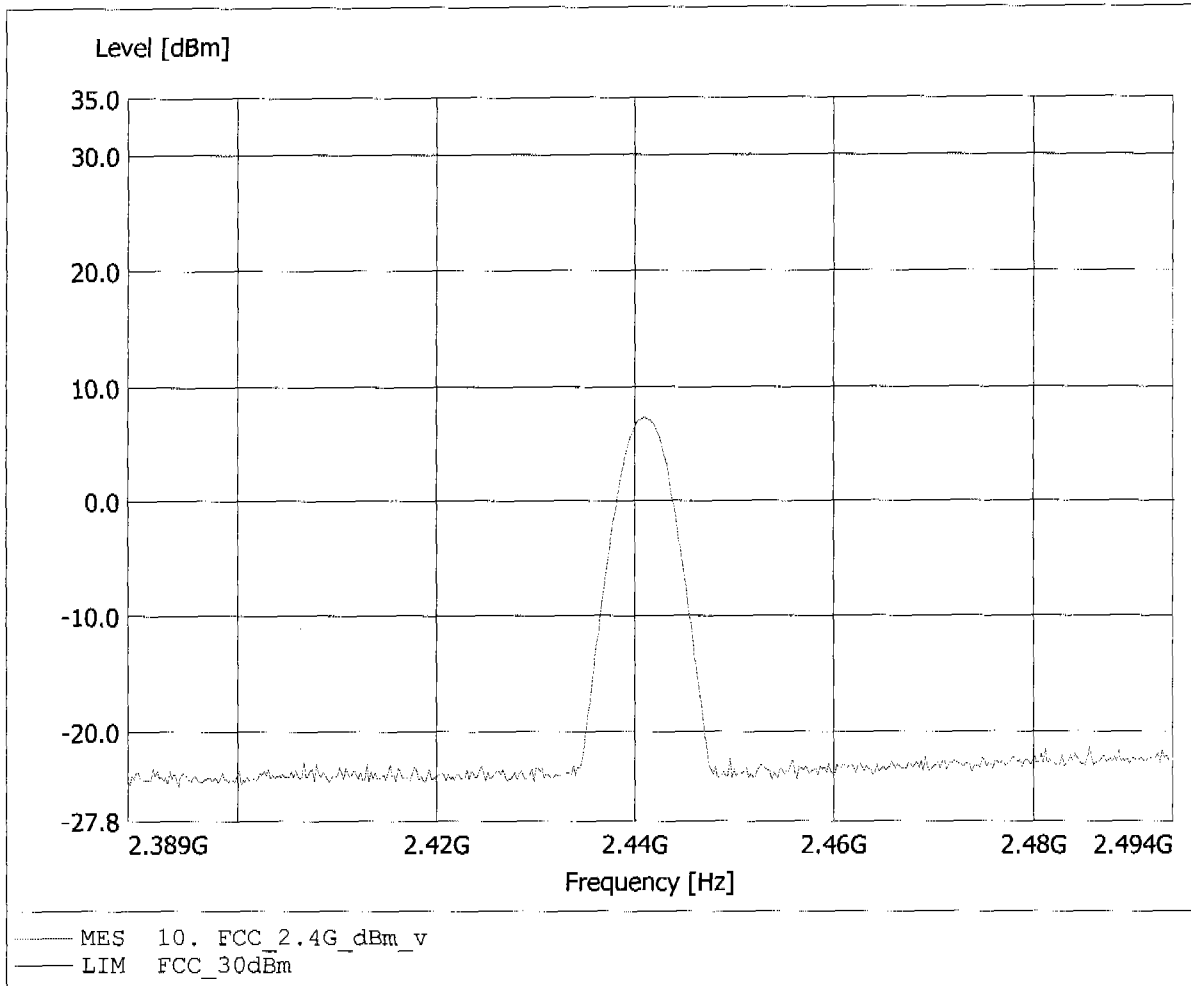
**Carrier power (dBm)**  
**FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2441 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.441GHz, Pmax: -1.48dBm, RBW: 5MHz



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

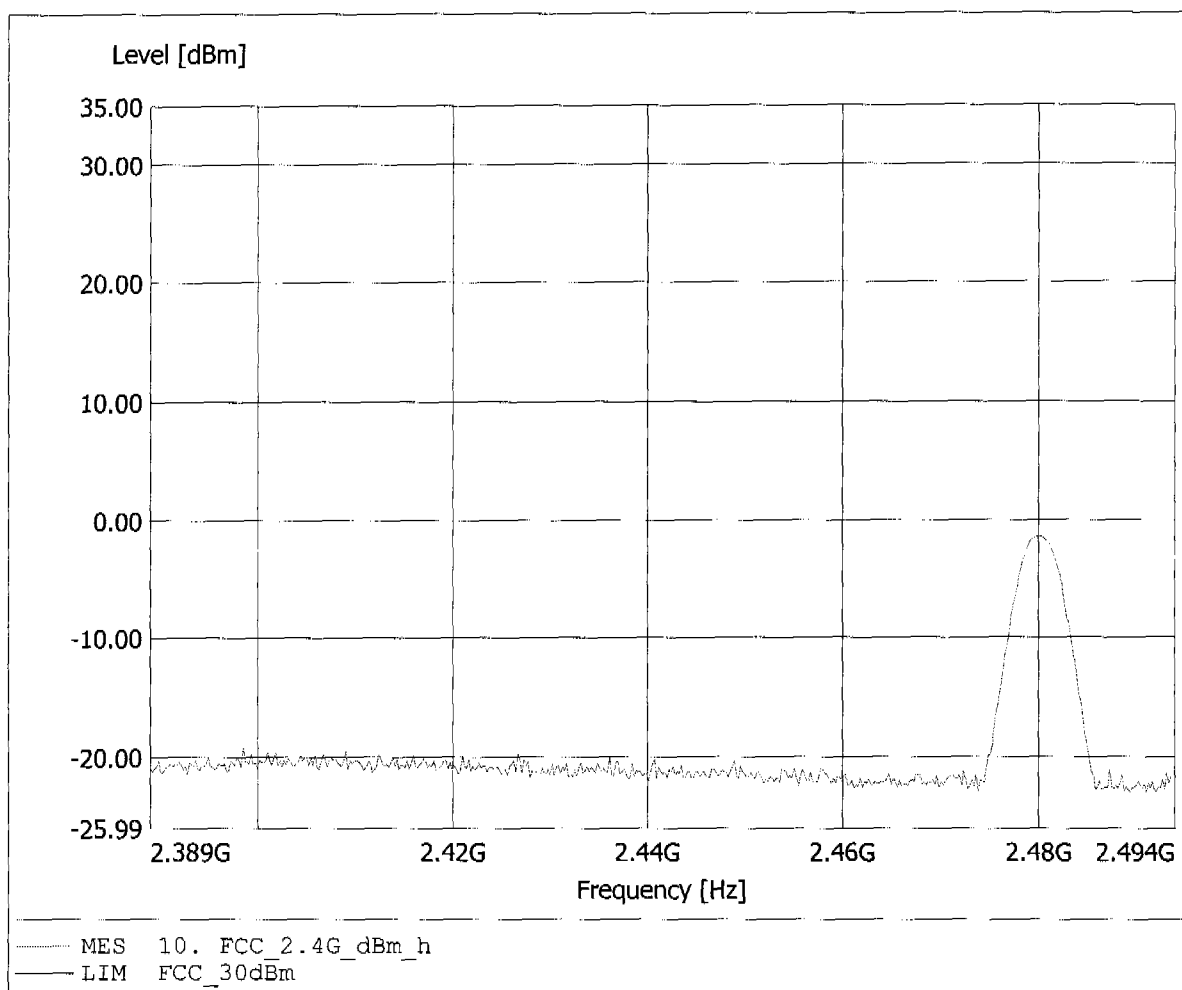
EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2441 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.441GHz, Pmax: 7.34dBm, RBW: 5MHz





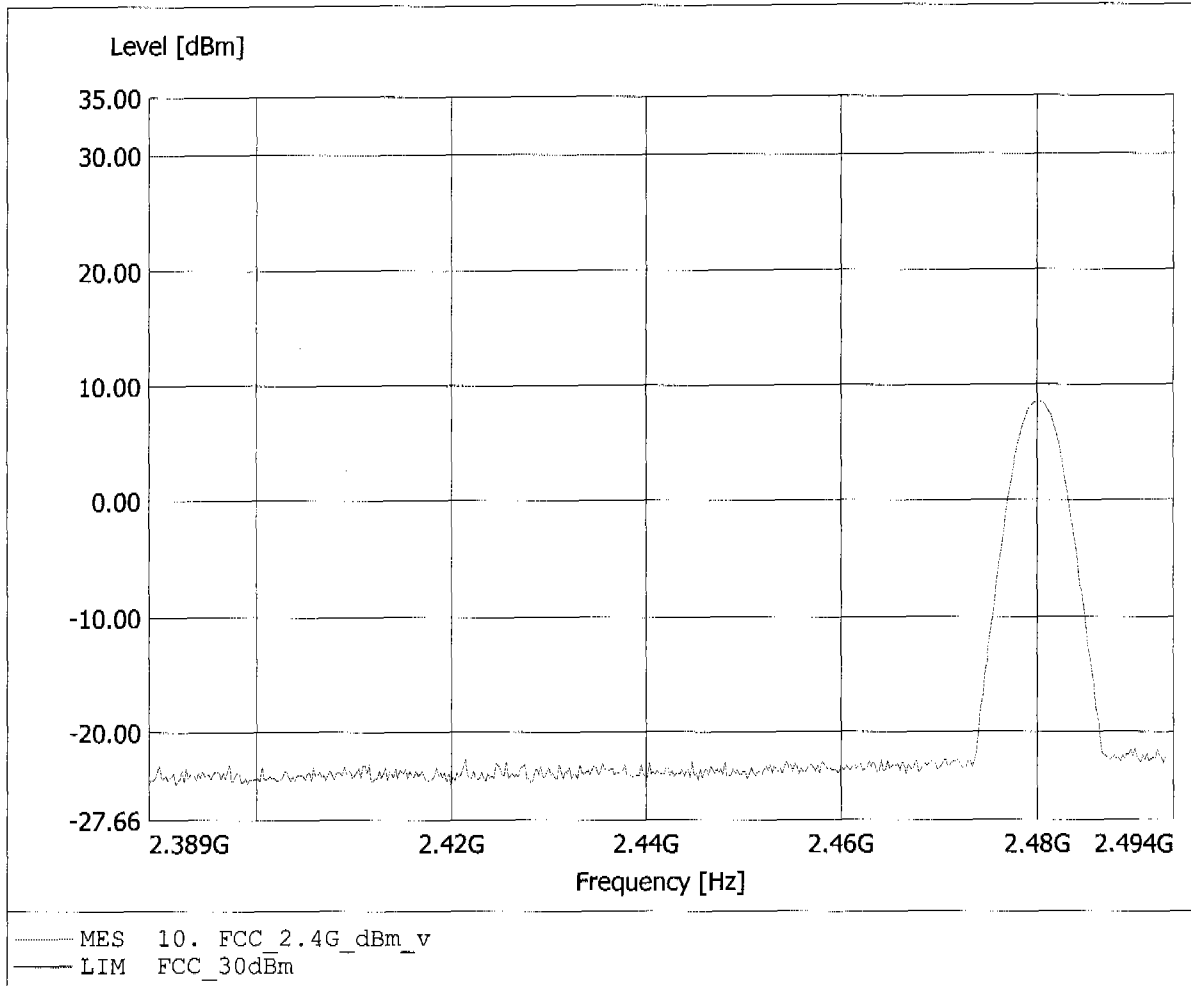
**Carrier power (dBm)**  
**FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2480 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.480GHz, Pmax: -1.38dBm, RBW: 5MHz



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

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2480 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.480GHz, Pmax: 8.56dBm, RBW: 5MHz



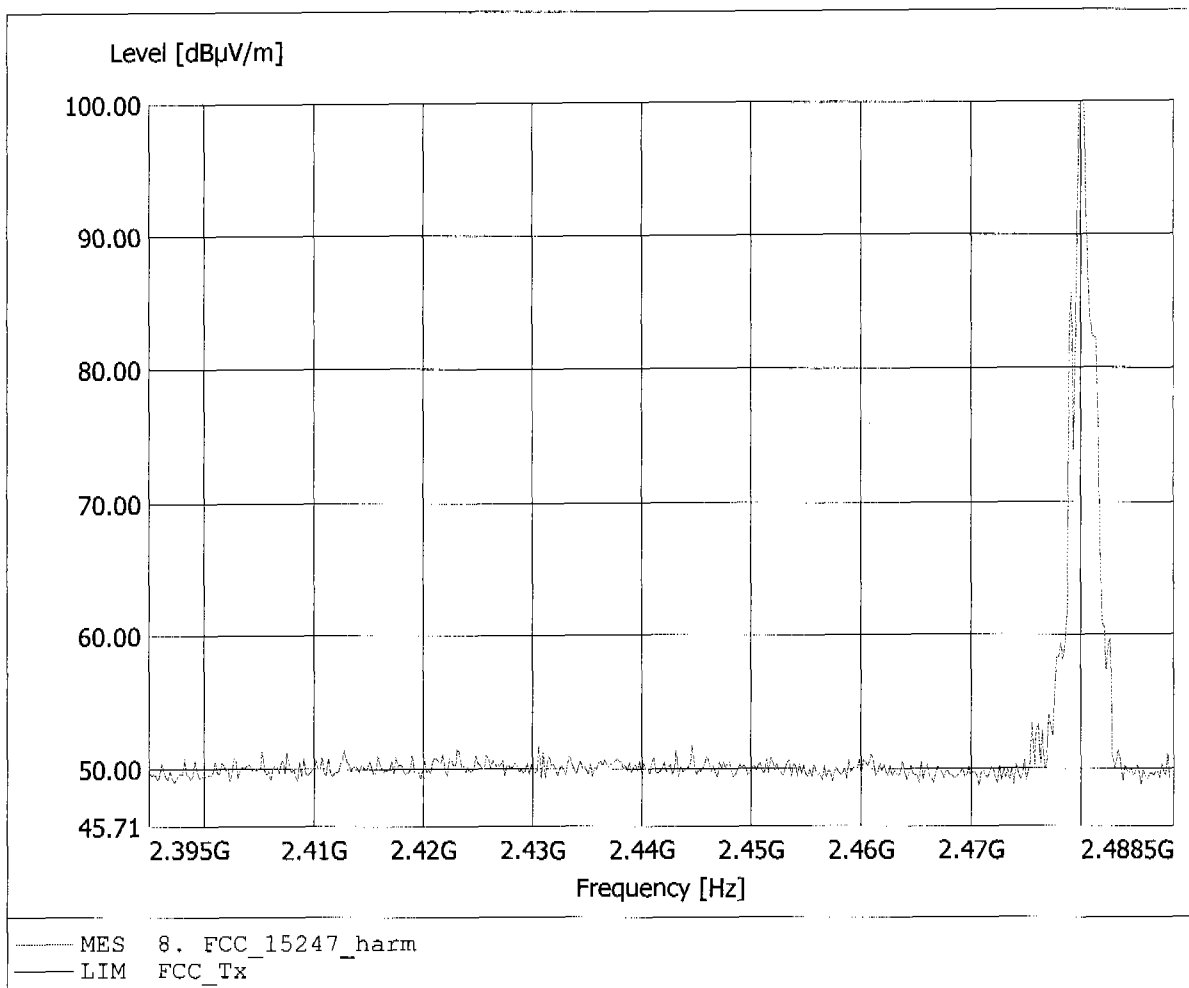


## Appendix C

Spurious Emissions radiated - Transmitter operating

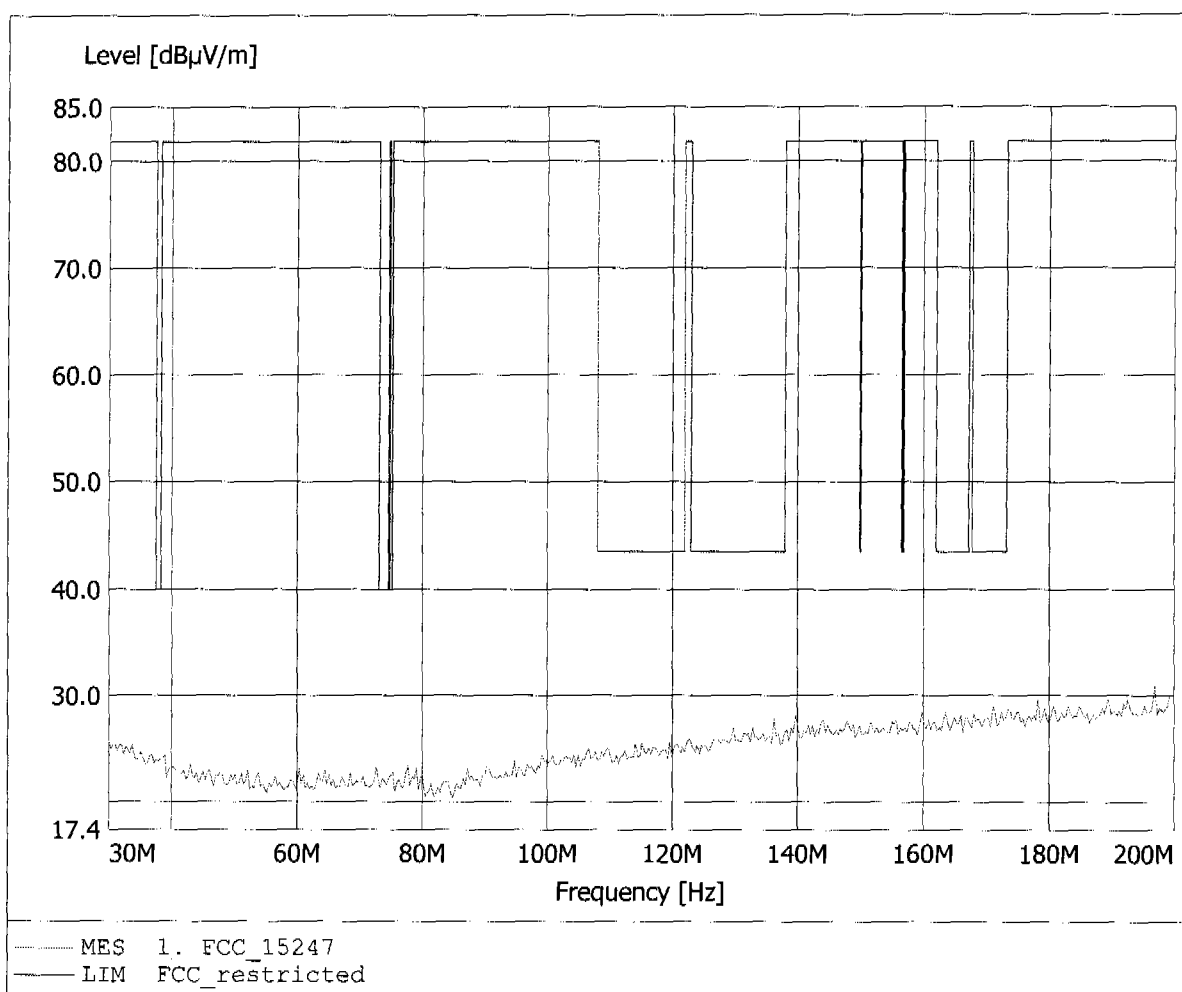
**Carrier power (Field Strength)**  
**FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2480 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: BBHA9120D  
Comment 2: Freq: 2.480GHz, Emax: 101.81dBµV/m, RBW: 100kHz



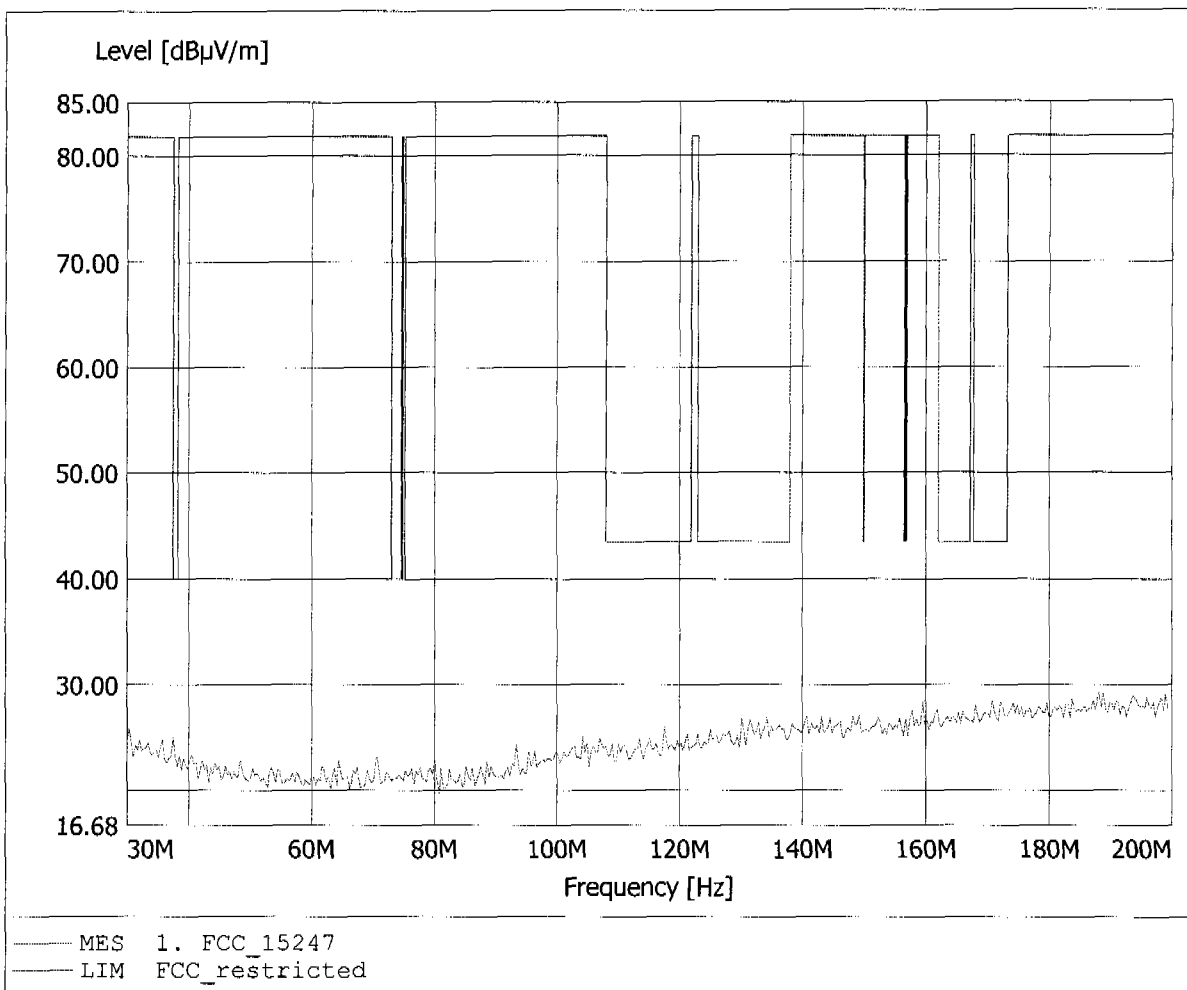
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Bluetooth Headset  
Model / Freq.: HS820 / 2402 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to S15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 196.934MHz, Emax: 30.92dBµV/m, RBW: 100kHz



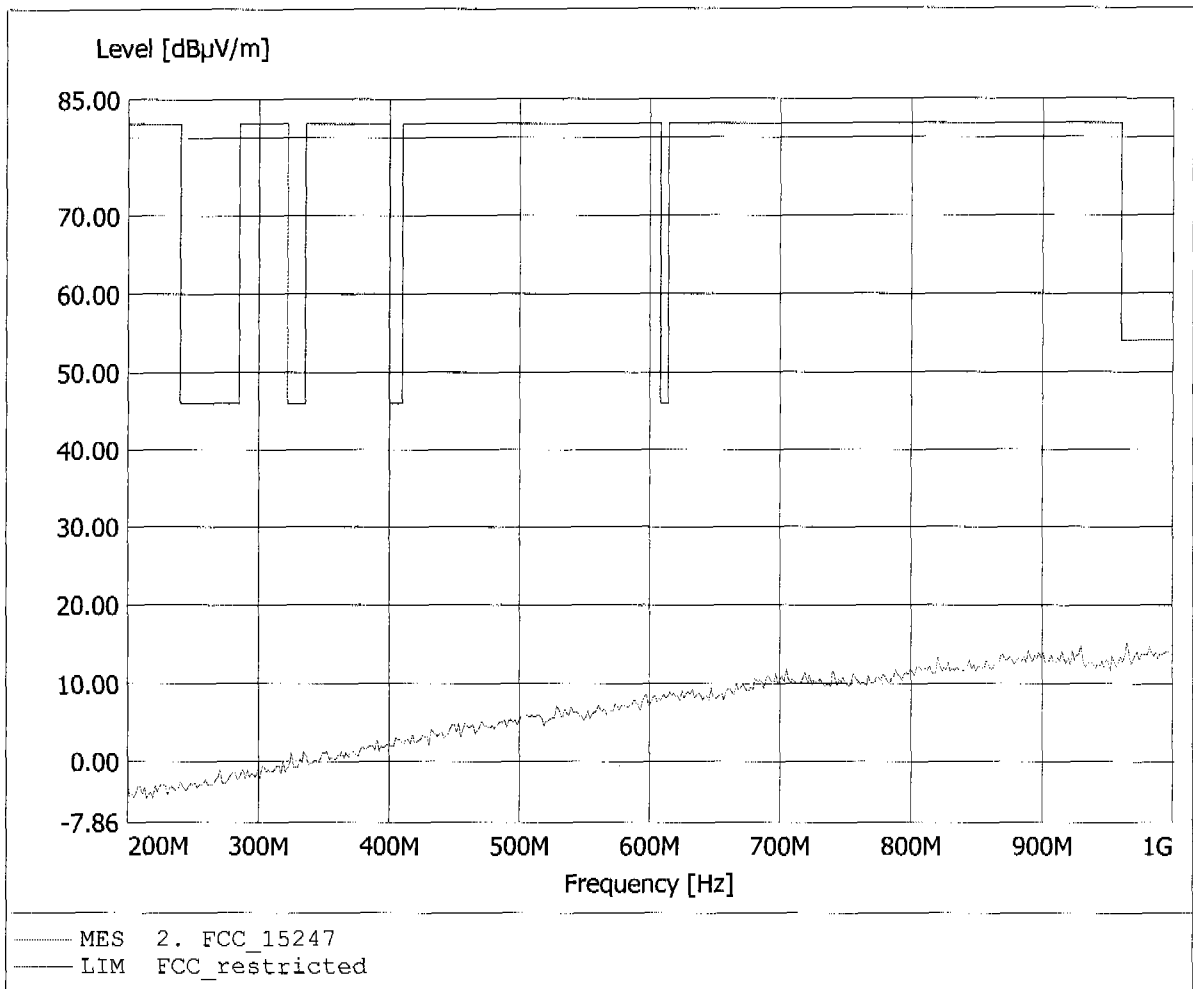
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2402 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 188.758MHz, Emax: 29.36dBµV/m, RBW: 100kHz



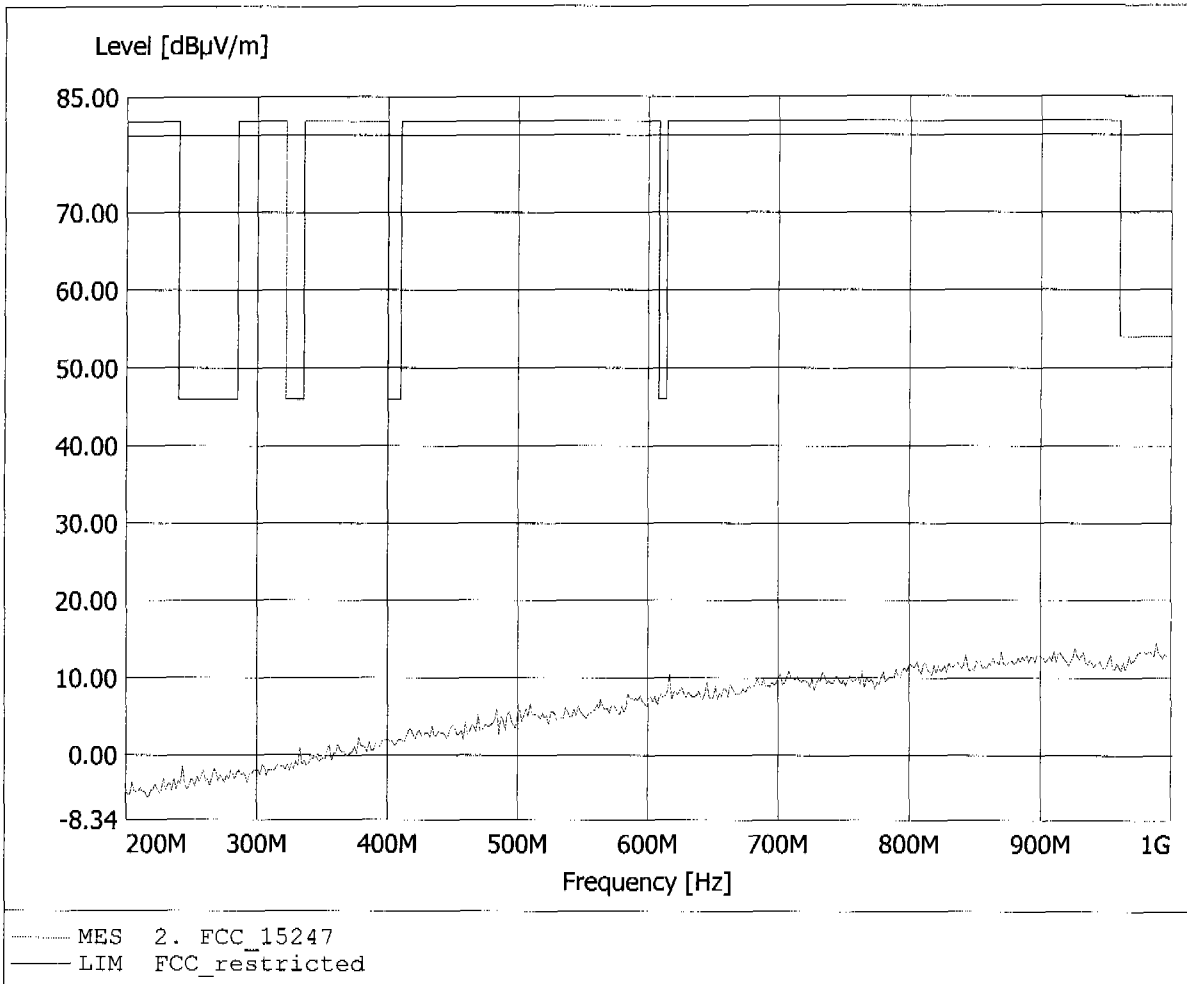
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2402 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC (Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.  
Comment 2: Freq: 964.729MHz, Emax: 15.34dBµV/m, RBW: 100kHz



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

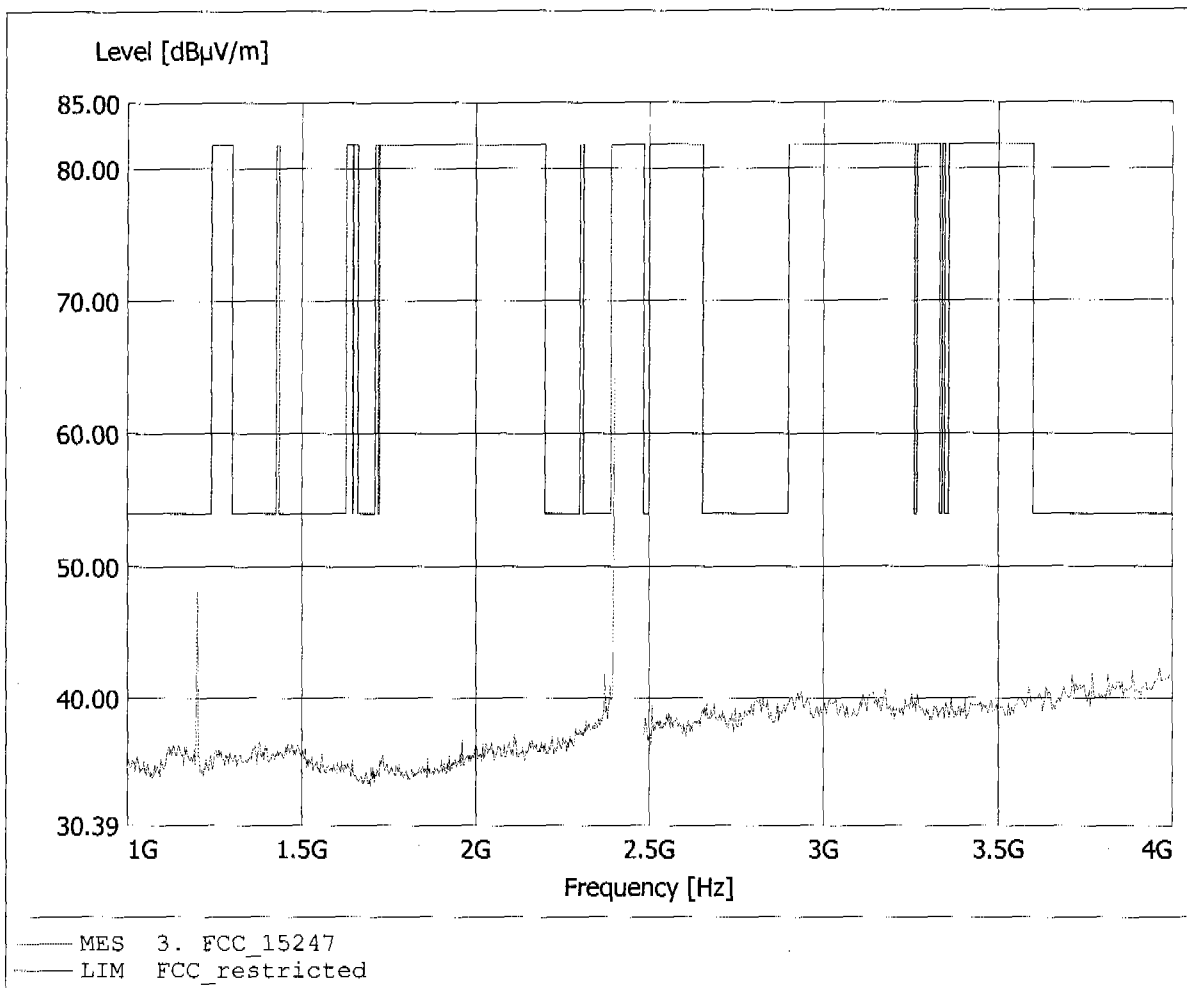
EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2402 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.  
Comment 2: Freq: 988.778MHz, Emax: 14.46dBµV/m, RBW: 100kHz





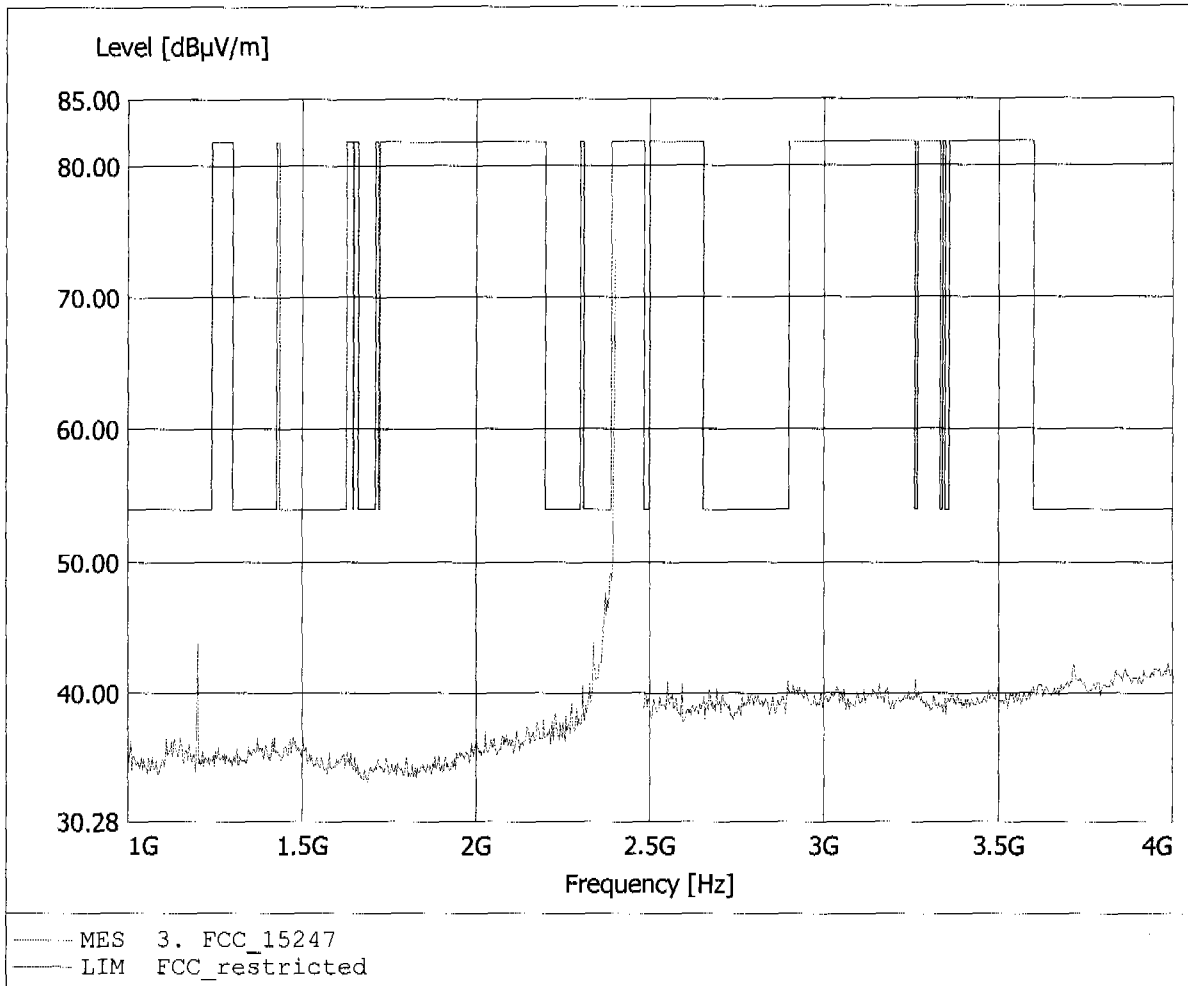
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2402 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 2.400GHz, Emax: 64.35dBµV/m, RBW: 1MHz



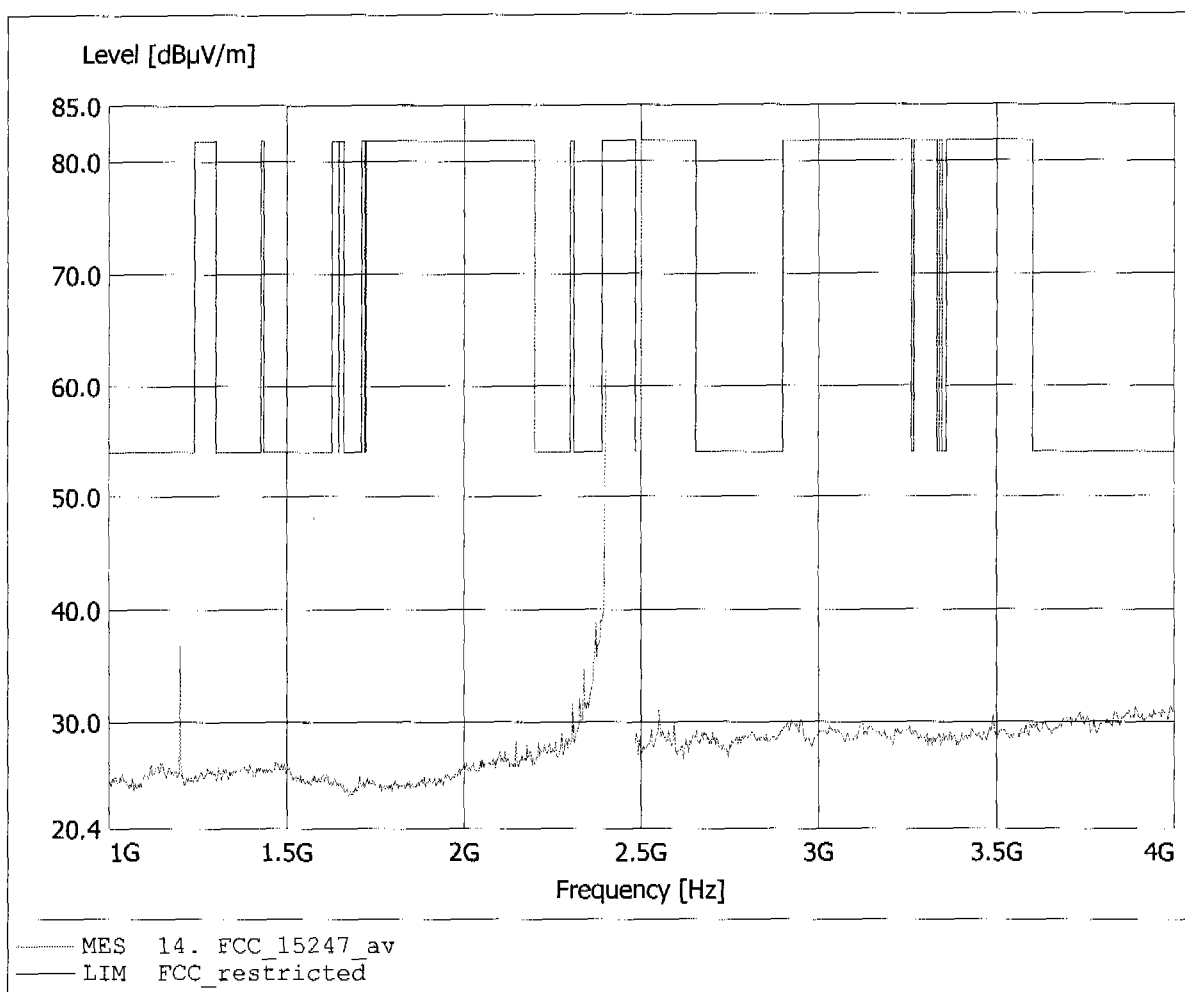
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2402 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 2.400GHz, Emax: 74.51dBµV/m, RBW: 1MHz



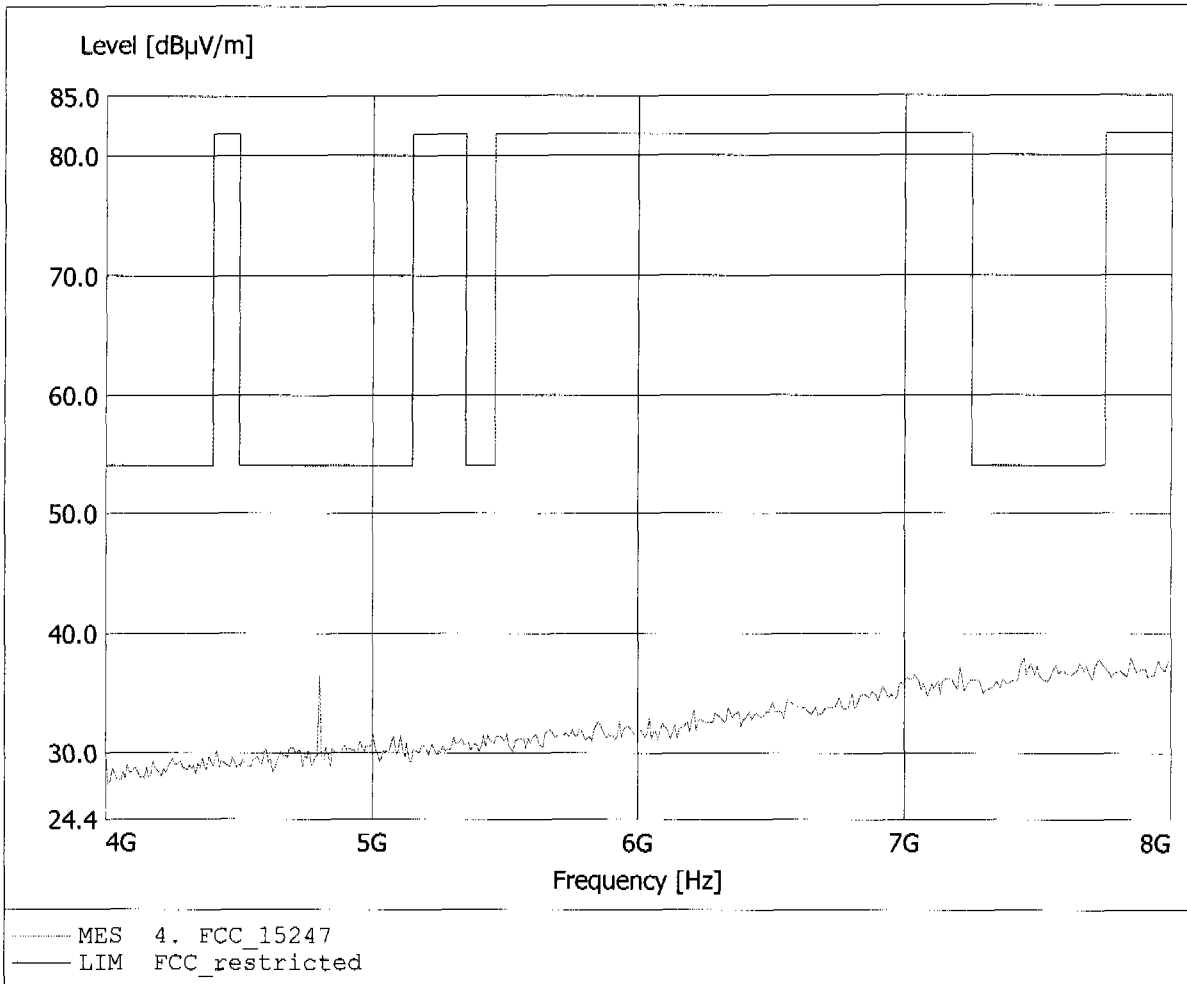
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2402 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, average detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 2.400GHz, Emax: 61.45dBµV/m, RBW: 1MHz



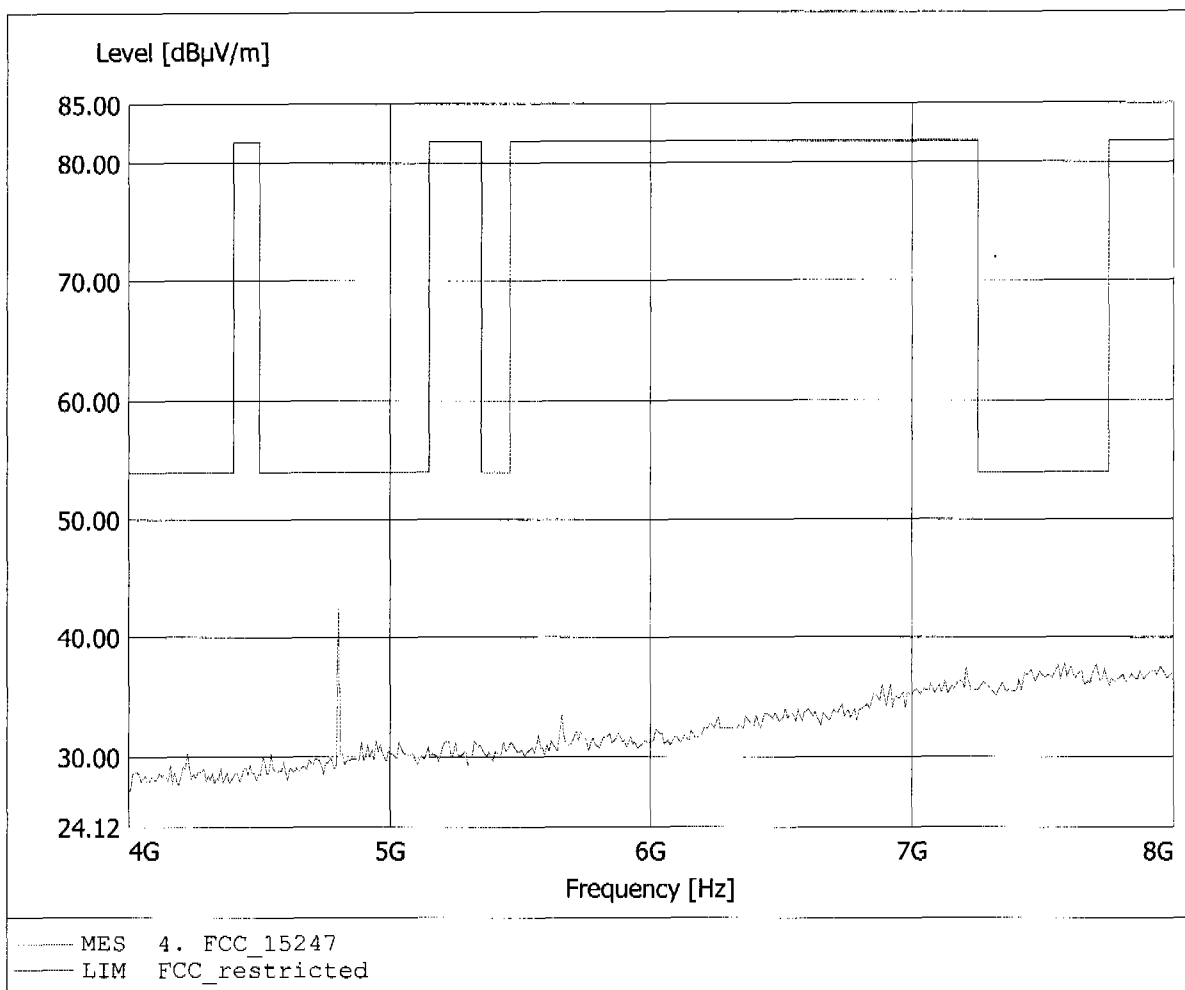
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2402 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 7.848GHz, Emax: 38.05dBµV/m, RBW: 1MHz



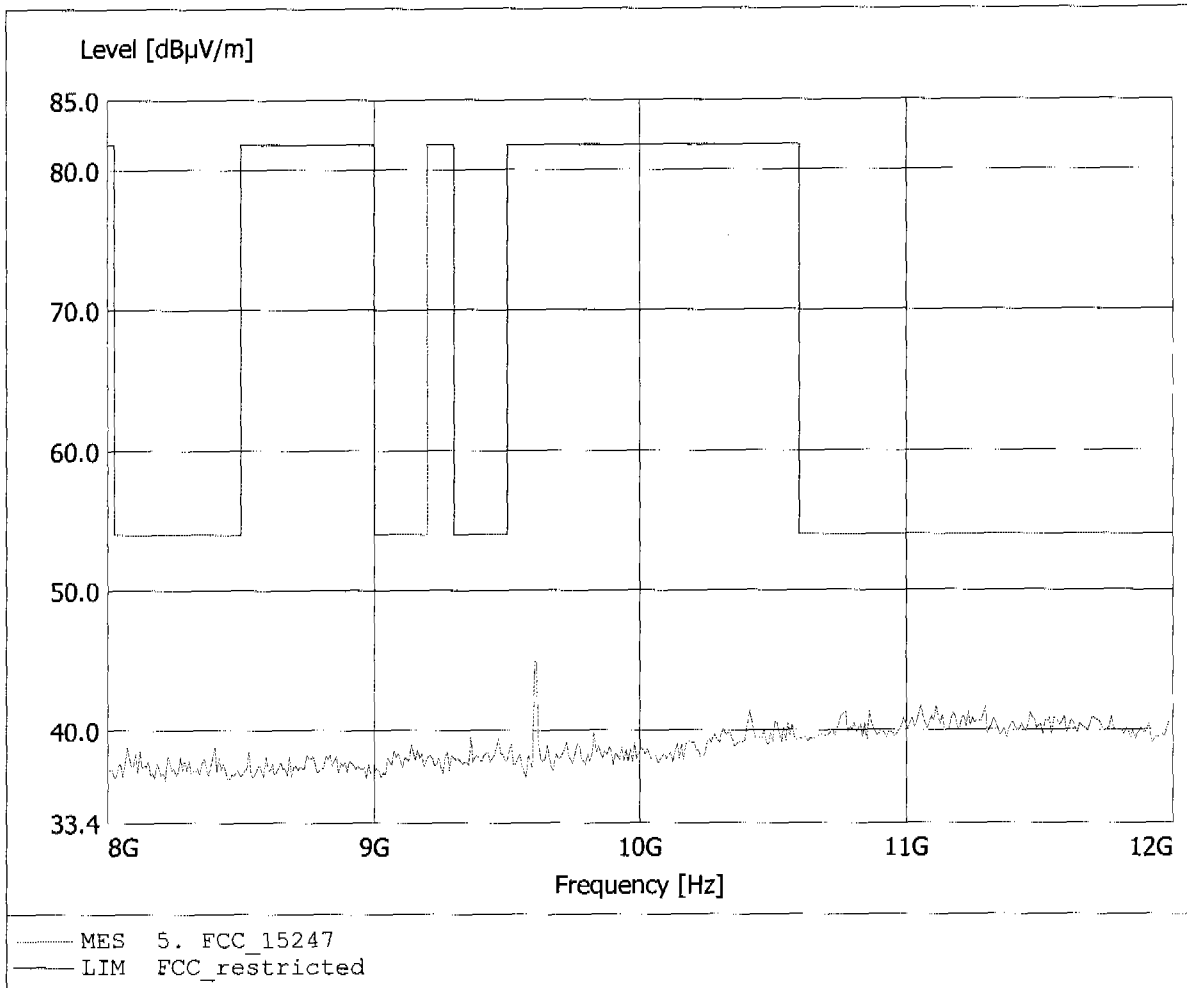
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2402 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 4.802GHz, Emax: 42.59dBµV/m, RBW: 1MHz



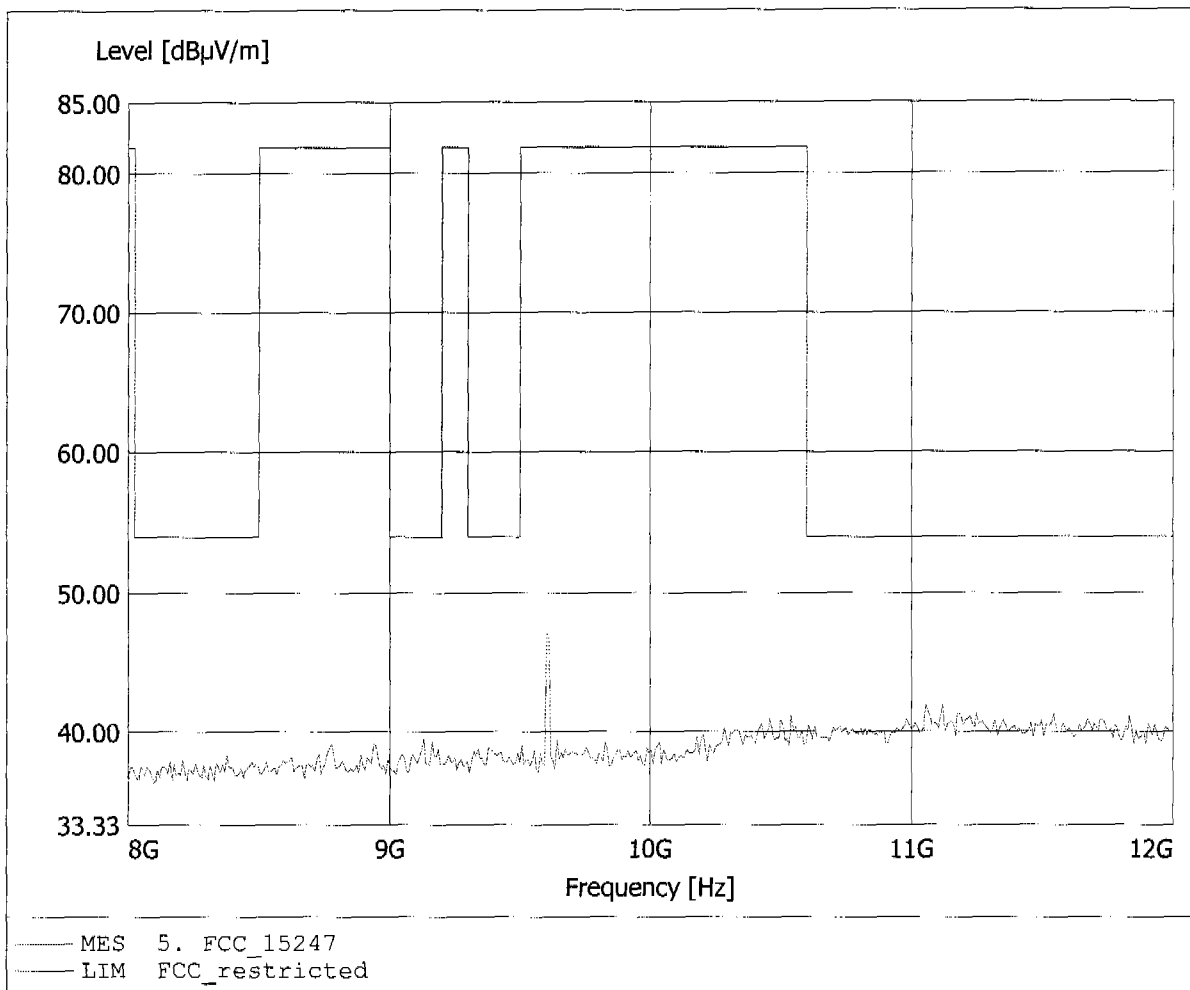
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2402 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 9.603GHz, Emax: 44.96dBµV/m, RBW: 1MHz



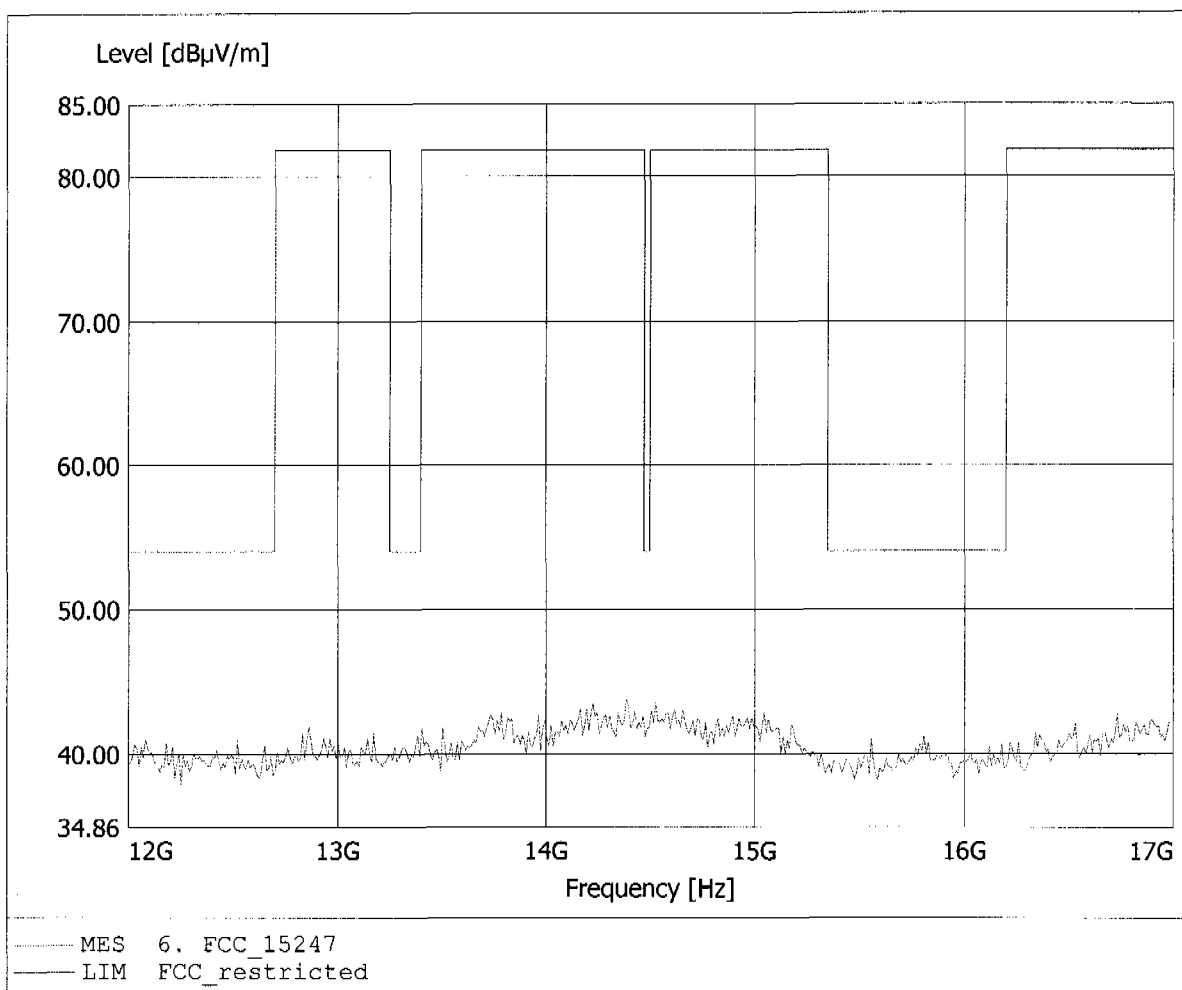
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2402 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 9.603GHz, Emax: 47.05dBuV/m, RBW: 1MHz



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

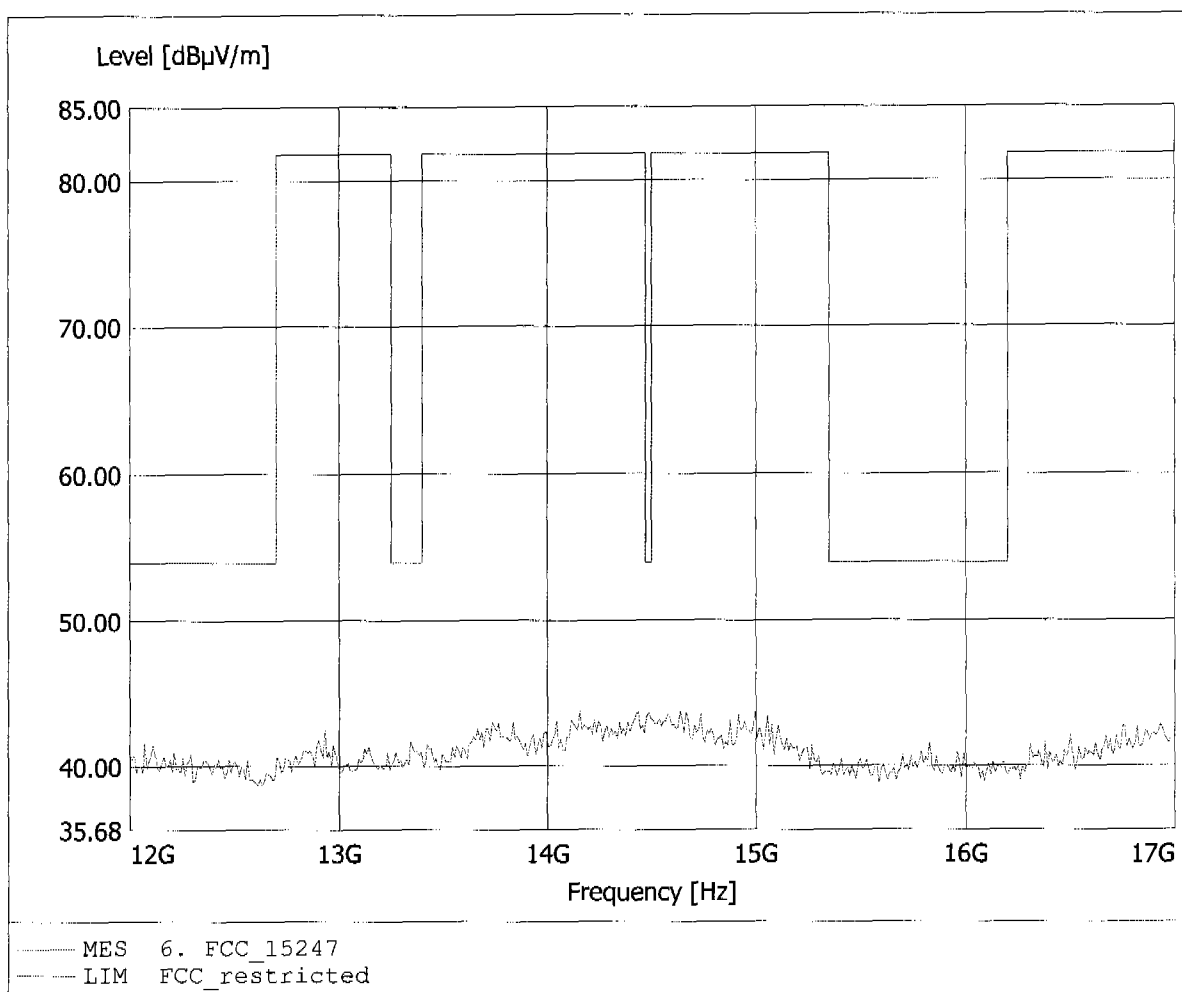
EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2402 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 14.385GHz, Emax: 43.84dBµV/m, RBW: 1MHz





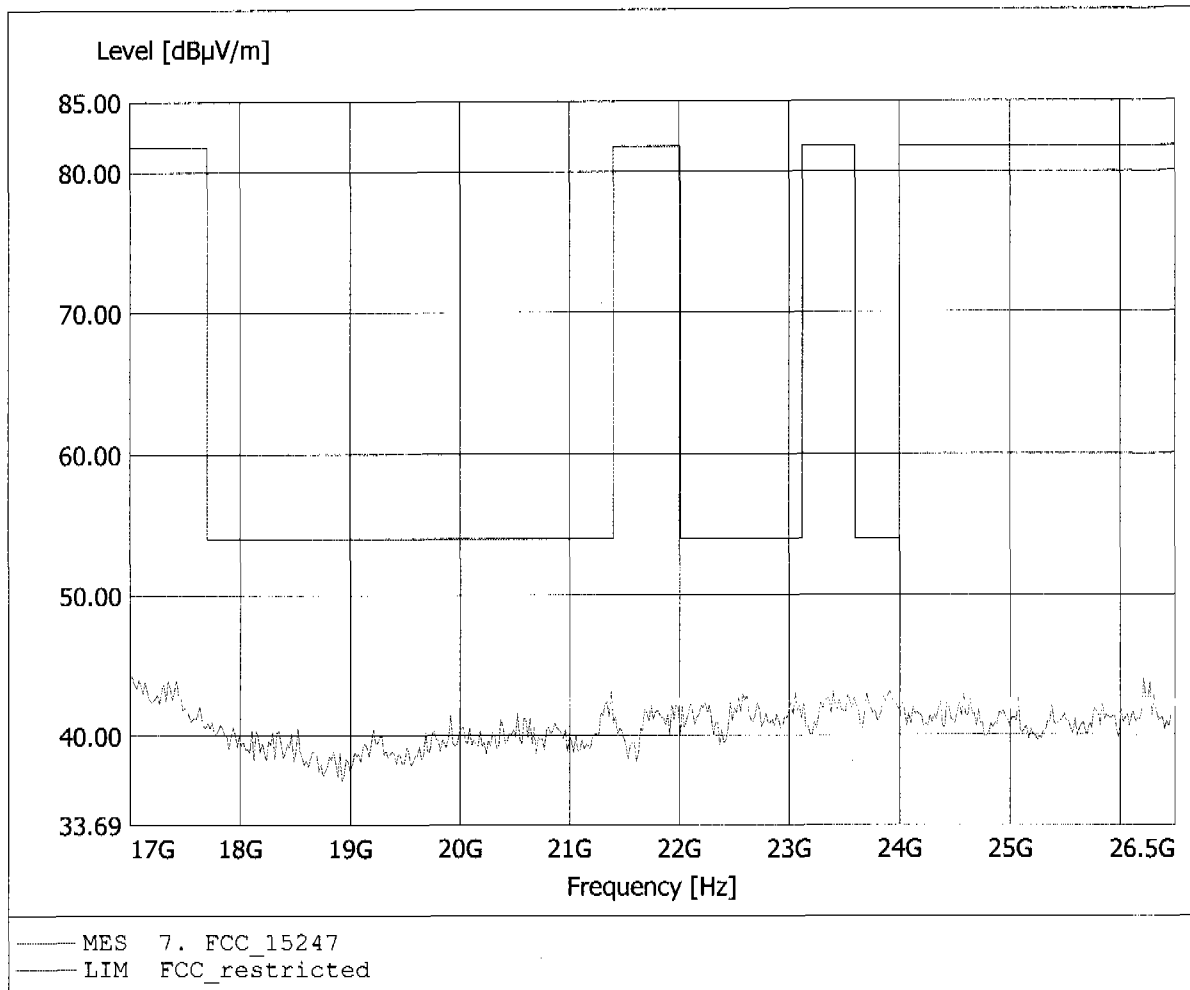
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2402 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 14.635GHz, Emax: 43.76dBuV/m, RBW: 1MHz



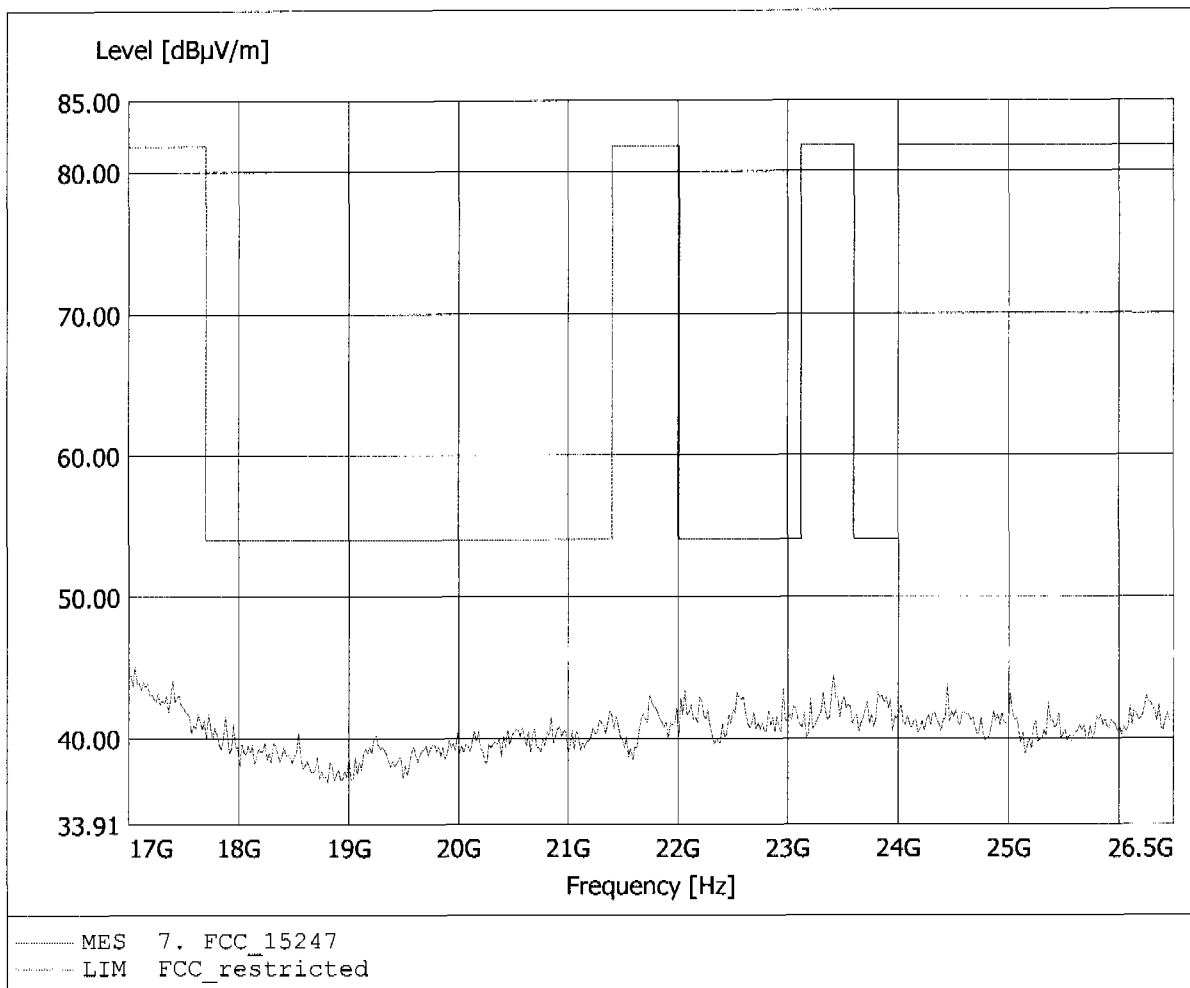
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2402 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Comment 2: Freq: 17.000GHz, Emax: 44.33dBµV/m, RBW: 1MHz



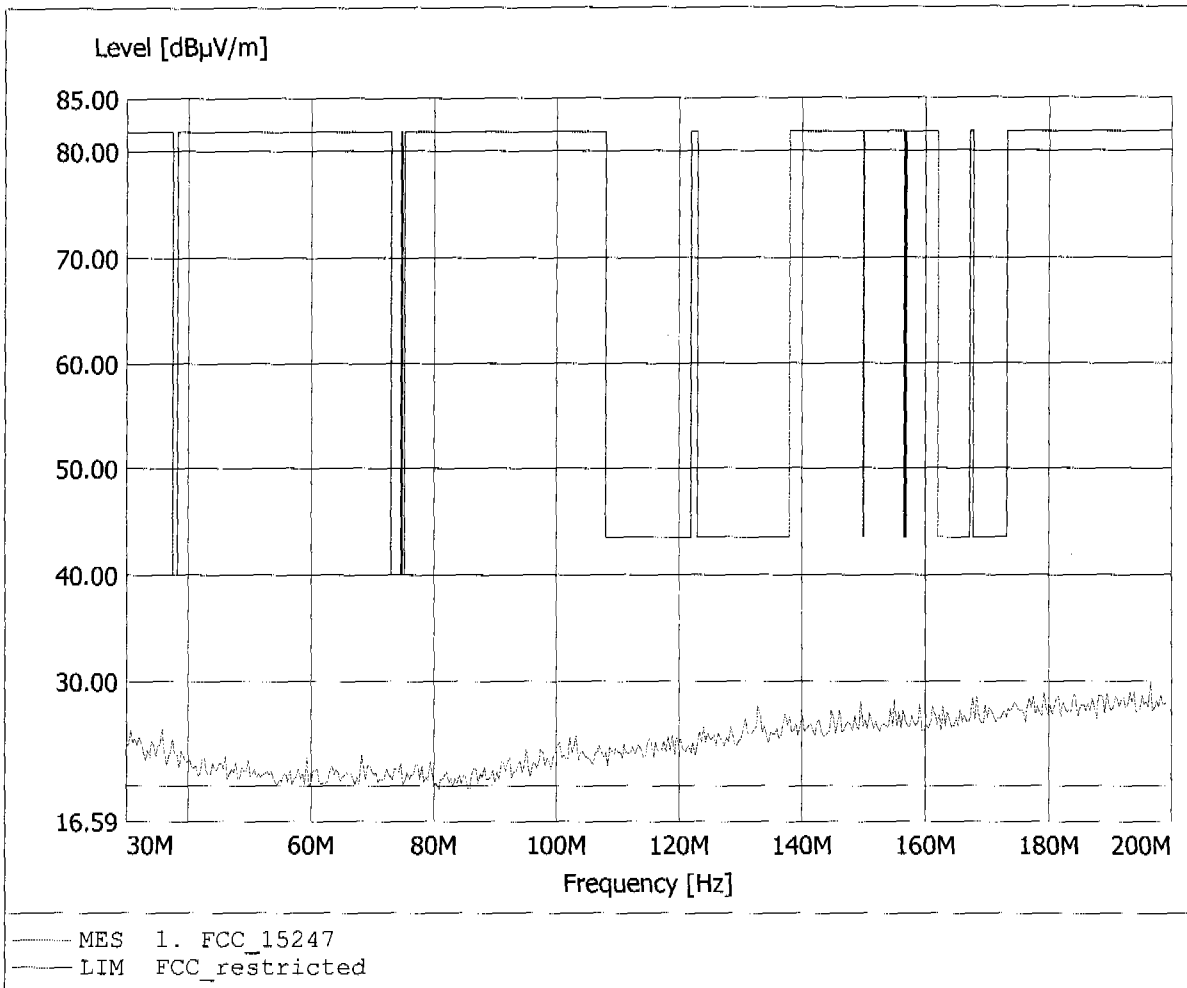
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2402 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Comment 2: Freq: 17.057GHz, Emax: 45.08dBµV/m, RBW: 1MHz



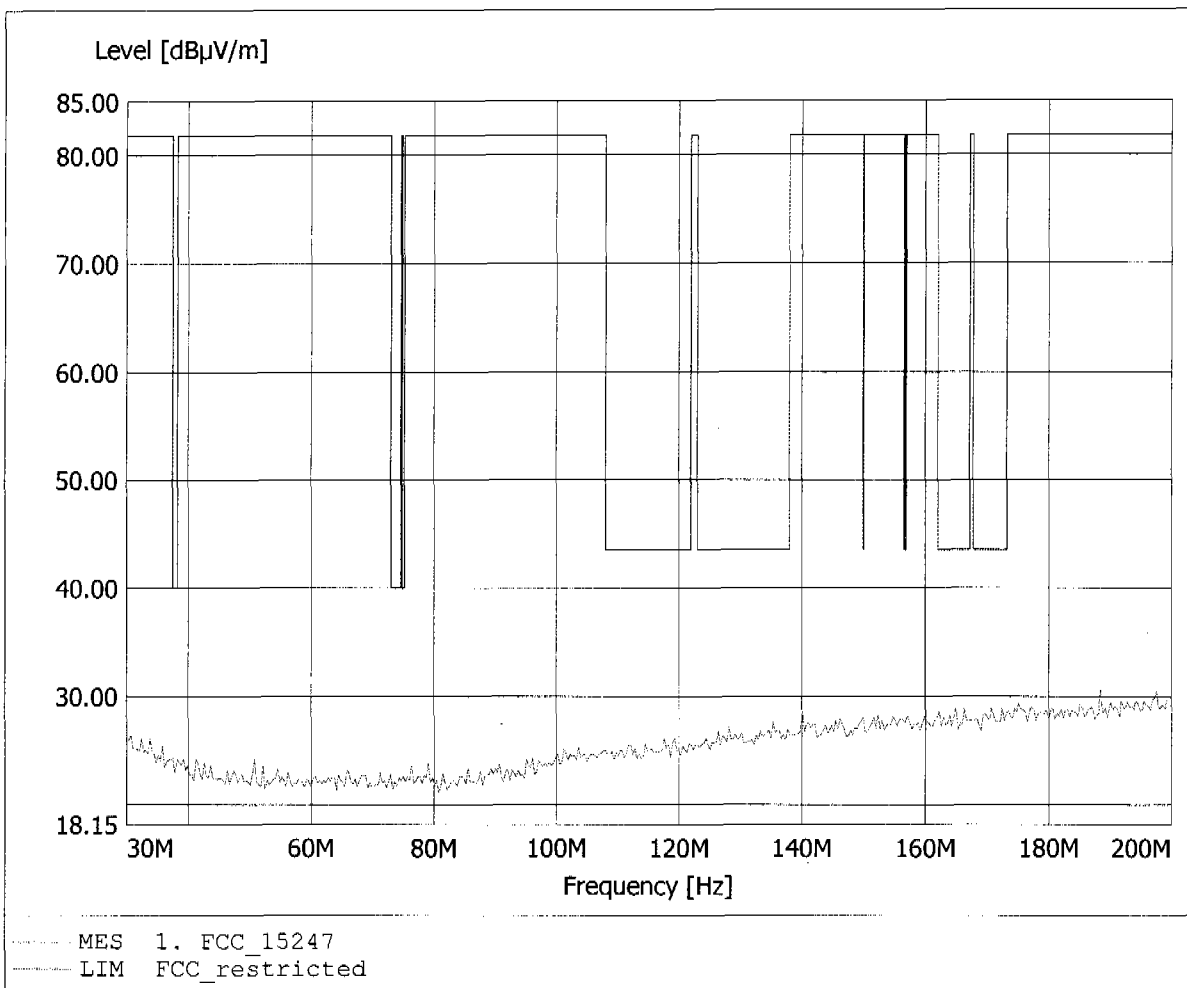
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2441 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 196.593MHz, Emax: 29.98dBµV/m, RBW: 100kHz



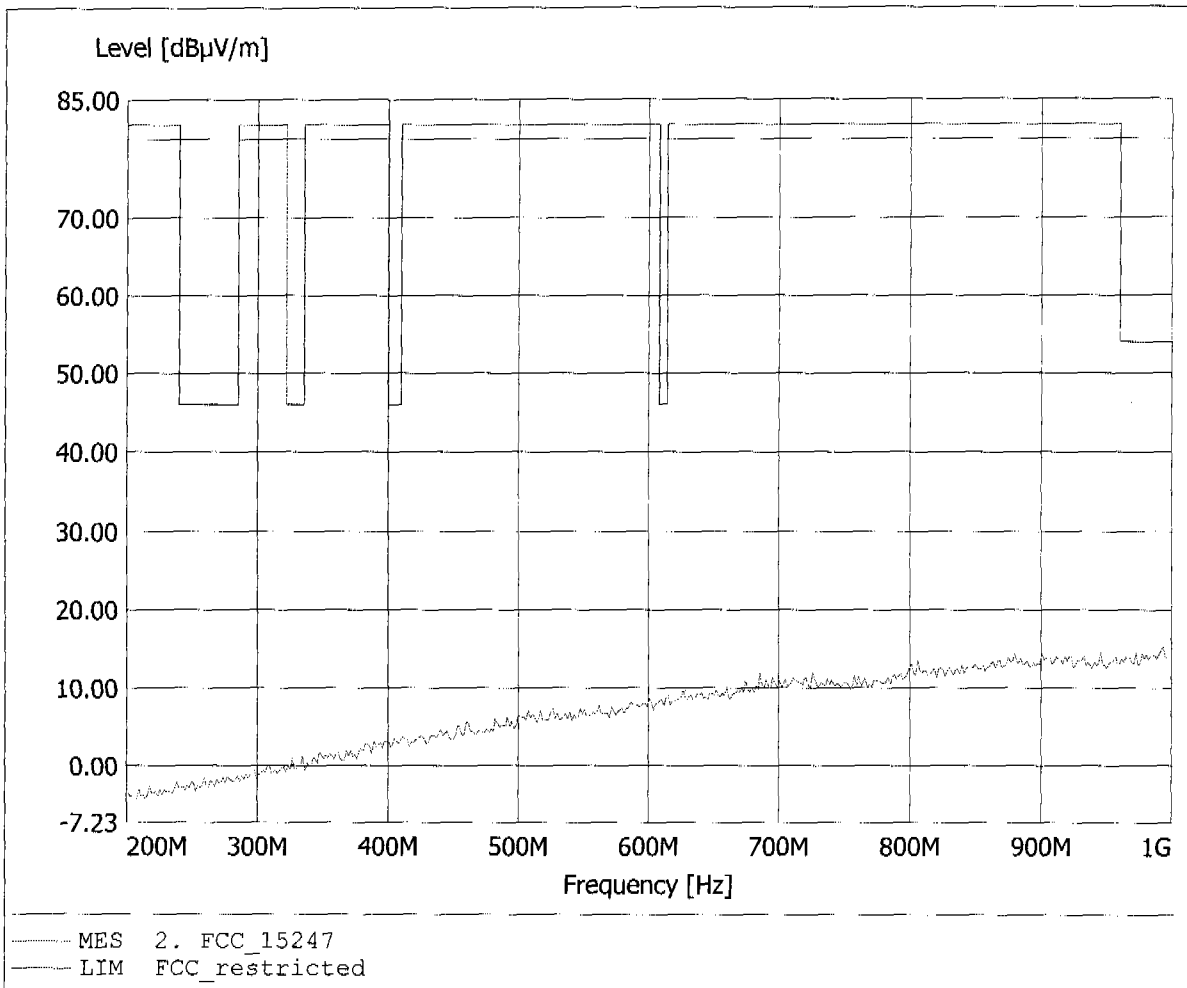
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2441 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC (Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 188.417MHz, Emax: 30.76dBµV/m, RBW: 100kHz



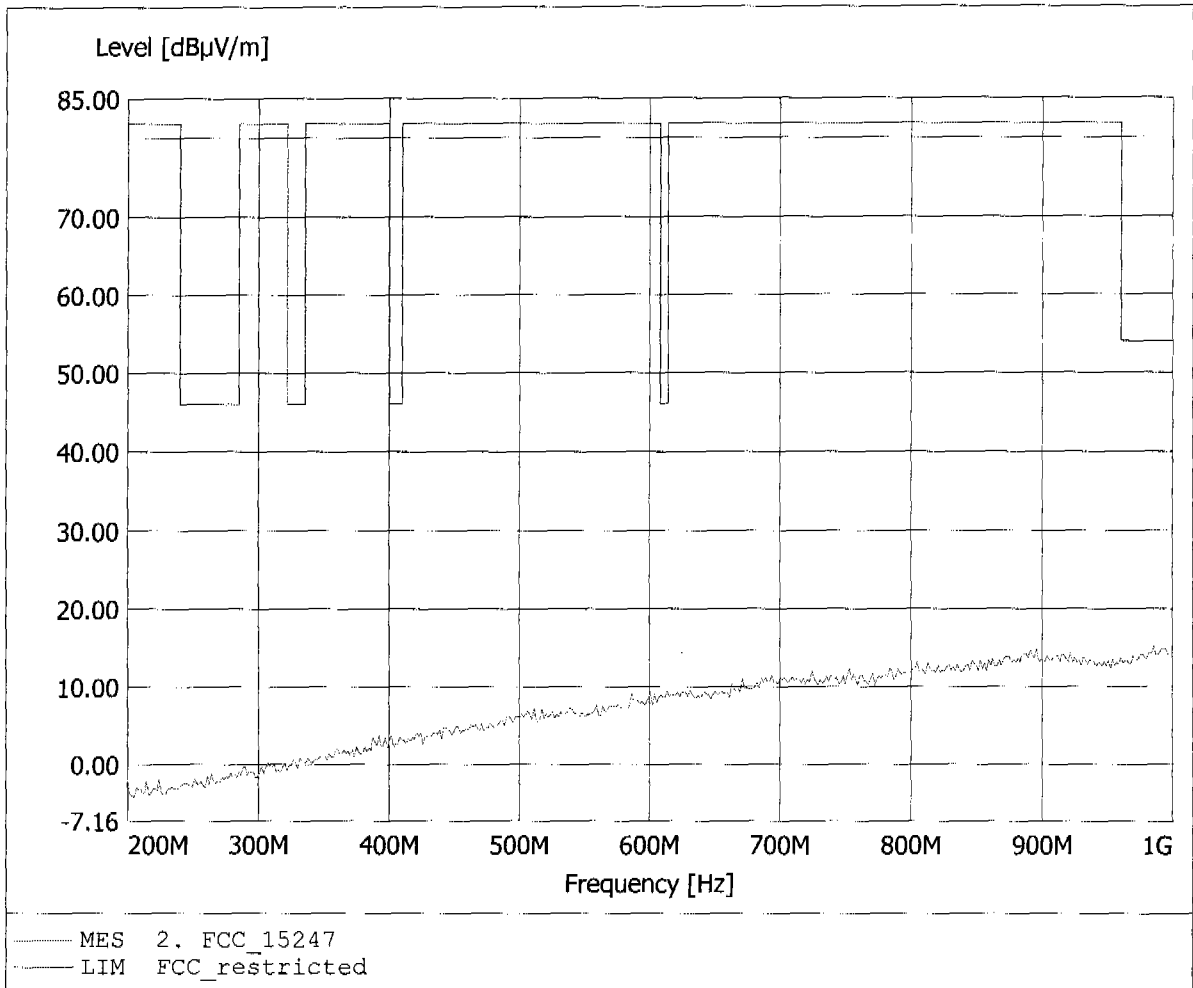
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2441 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.  
Comment 2: Freq: 993.587MHz, Emax: 15.29dBµV/m, RBW: 100kHz



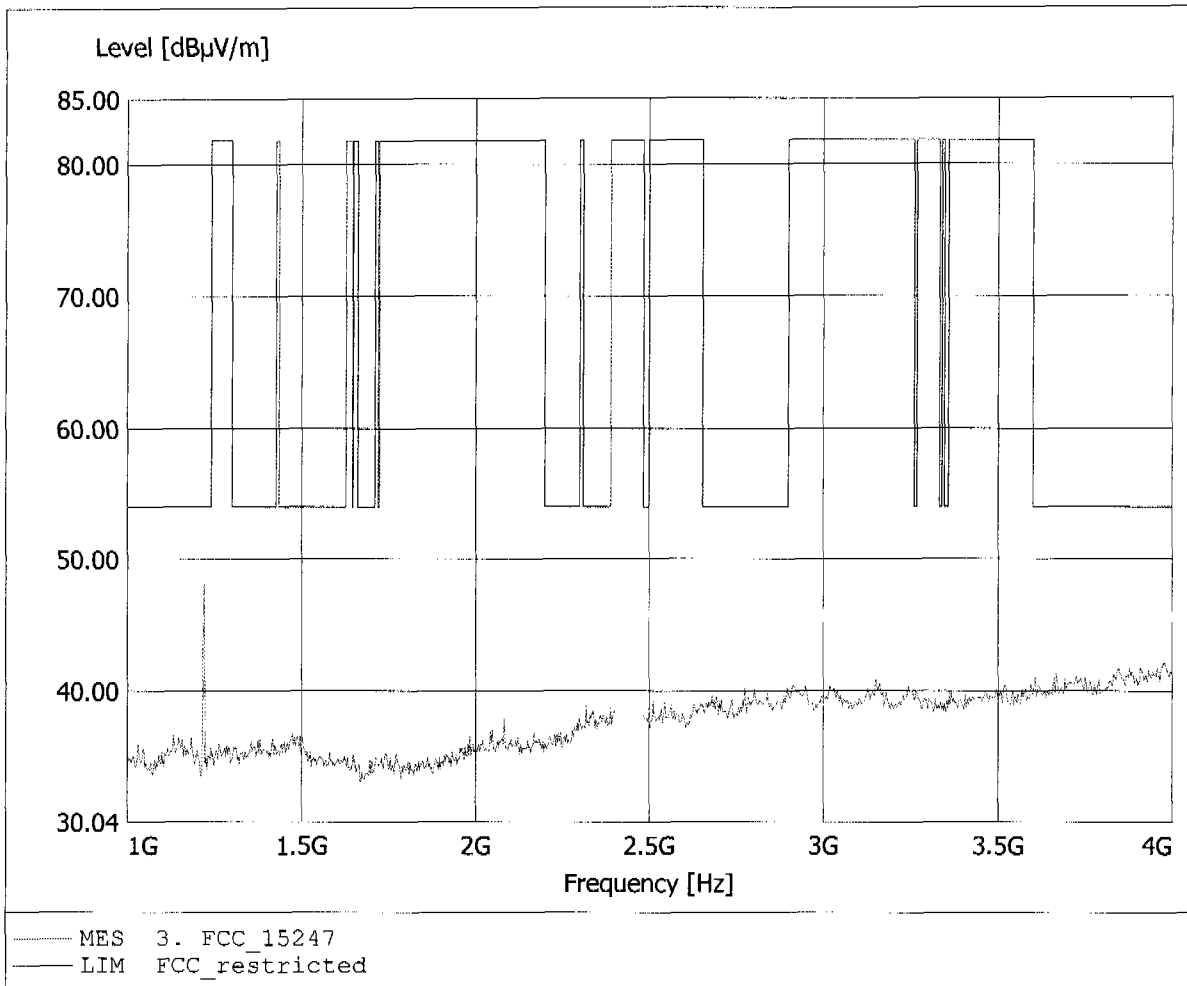
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2441 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.  
Comment 2: Freq: 985.571MHz, Emax: 15.14dBµV/m, RBW: 100kHz



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

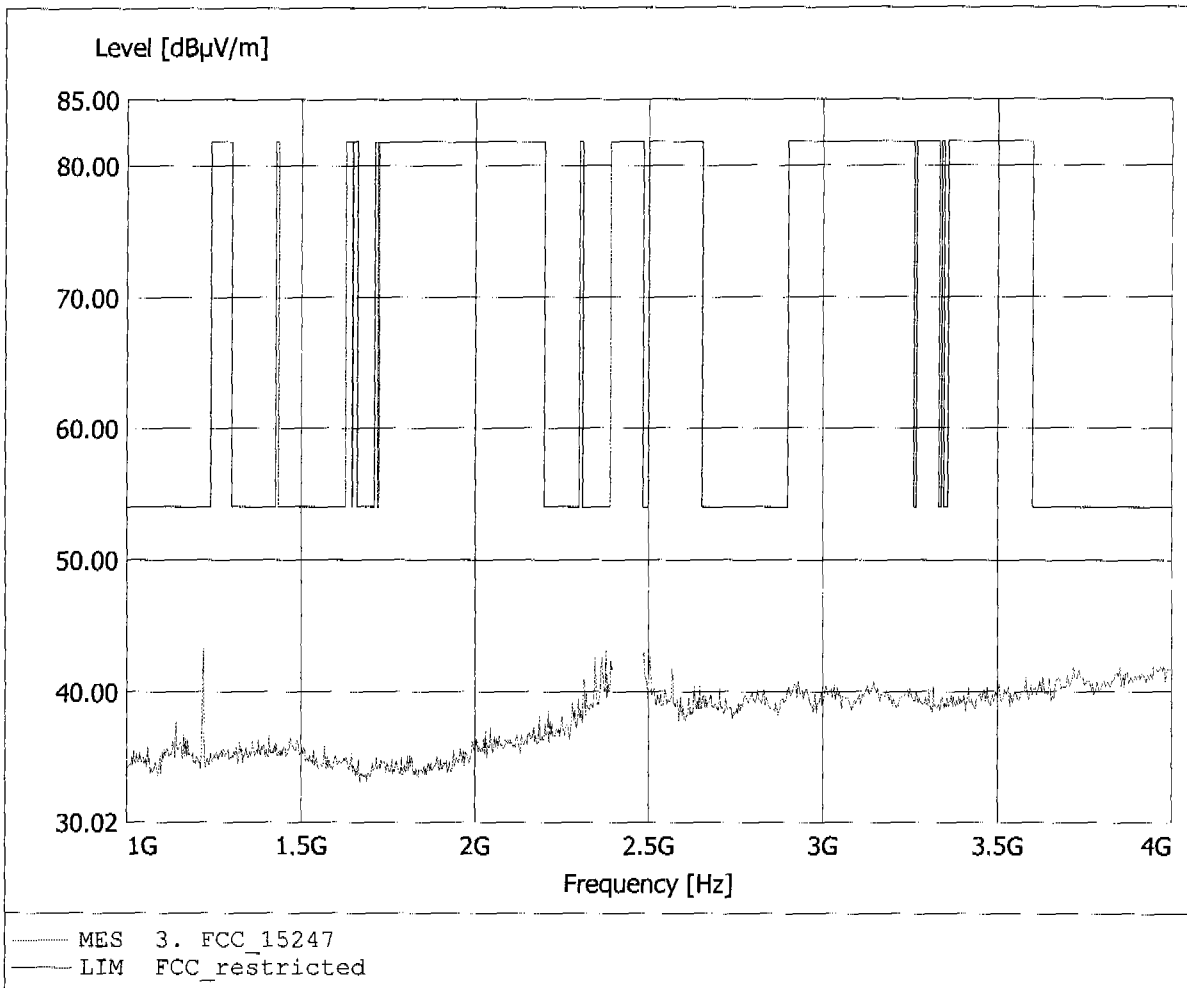
EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2441 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 1.220GHz, Emax: 48.16dBµV/m, RBW: 1MHz





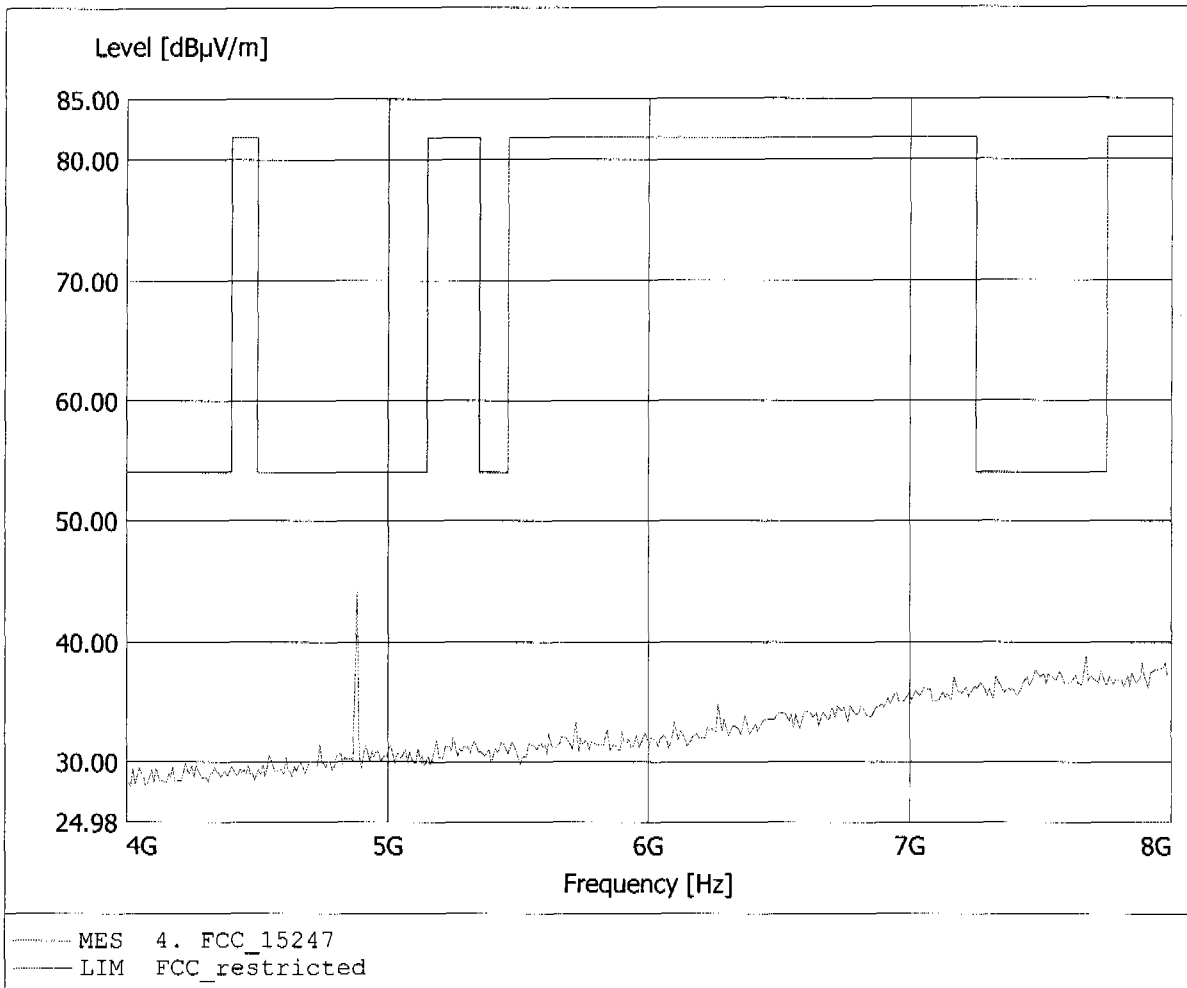
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2441 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 1.220GHz, Emax: 43.27dBµV/m, RBW: 1MHz



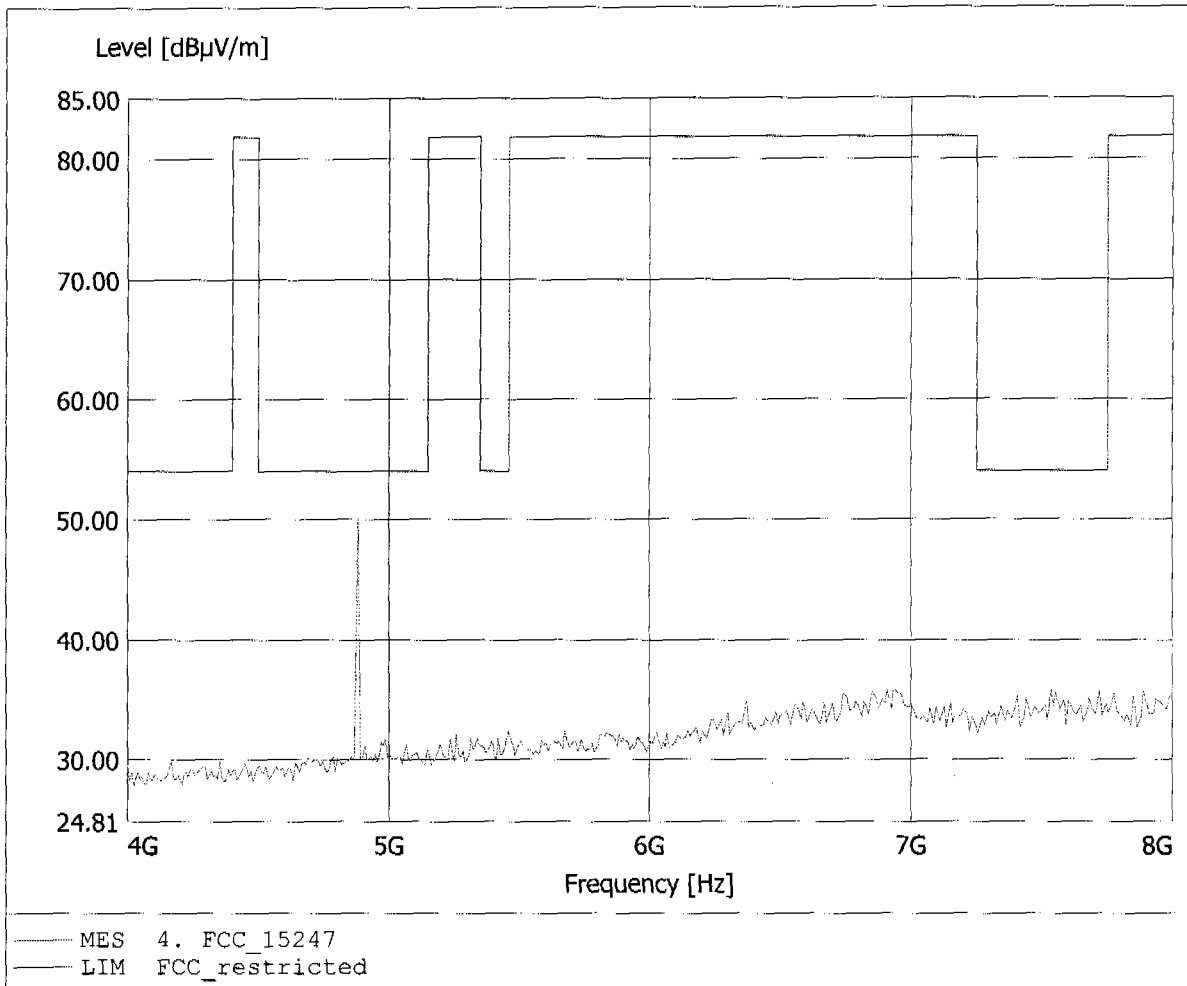
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2441 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 4.882GHz, Emax: 44.15dBµV/m, RBW: 1MHz



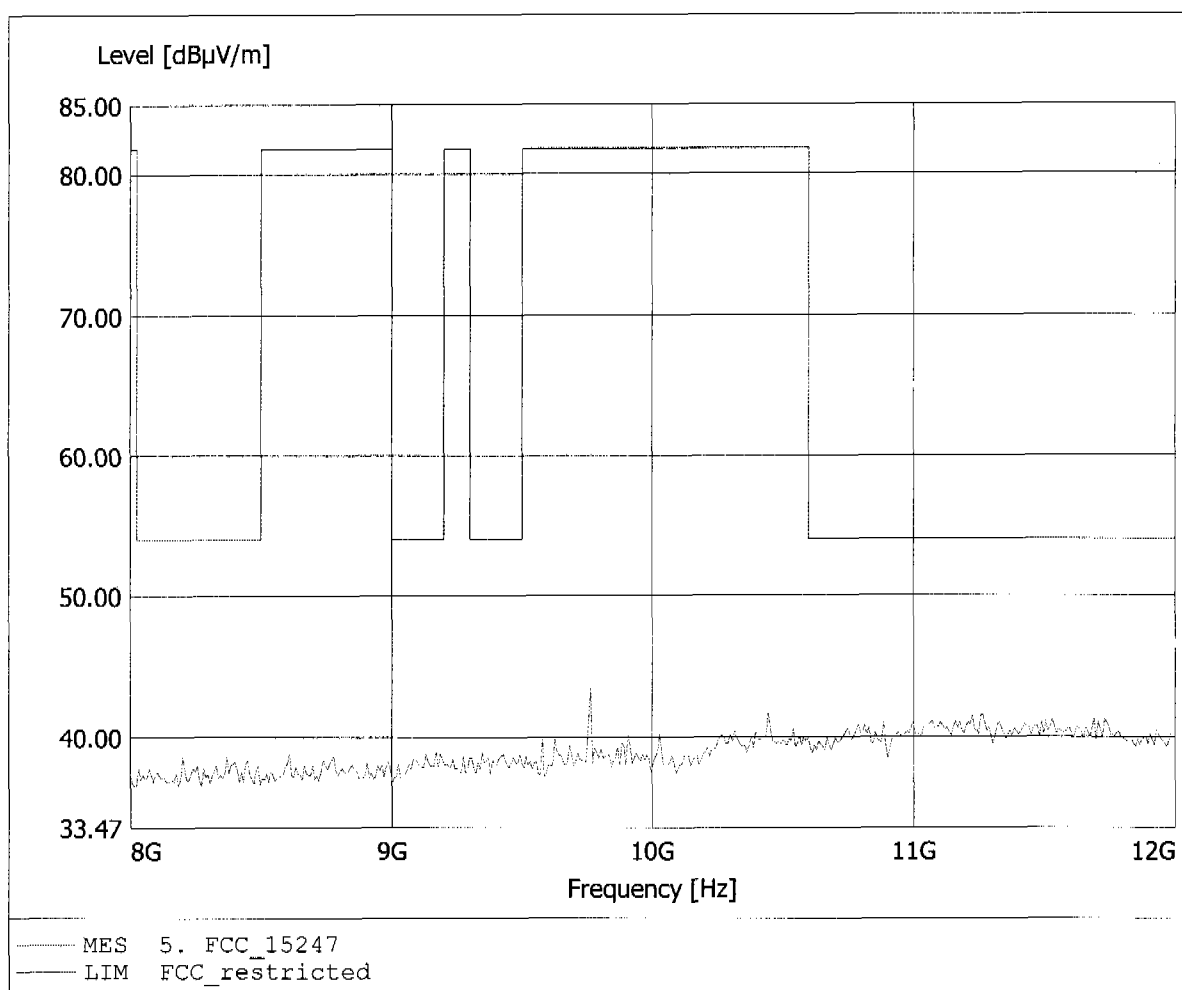
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2441 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 4.882GHz, Emax: 49.97dBµV/m, RBW: 1MHz



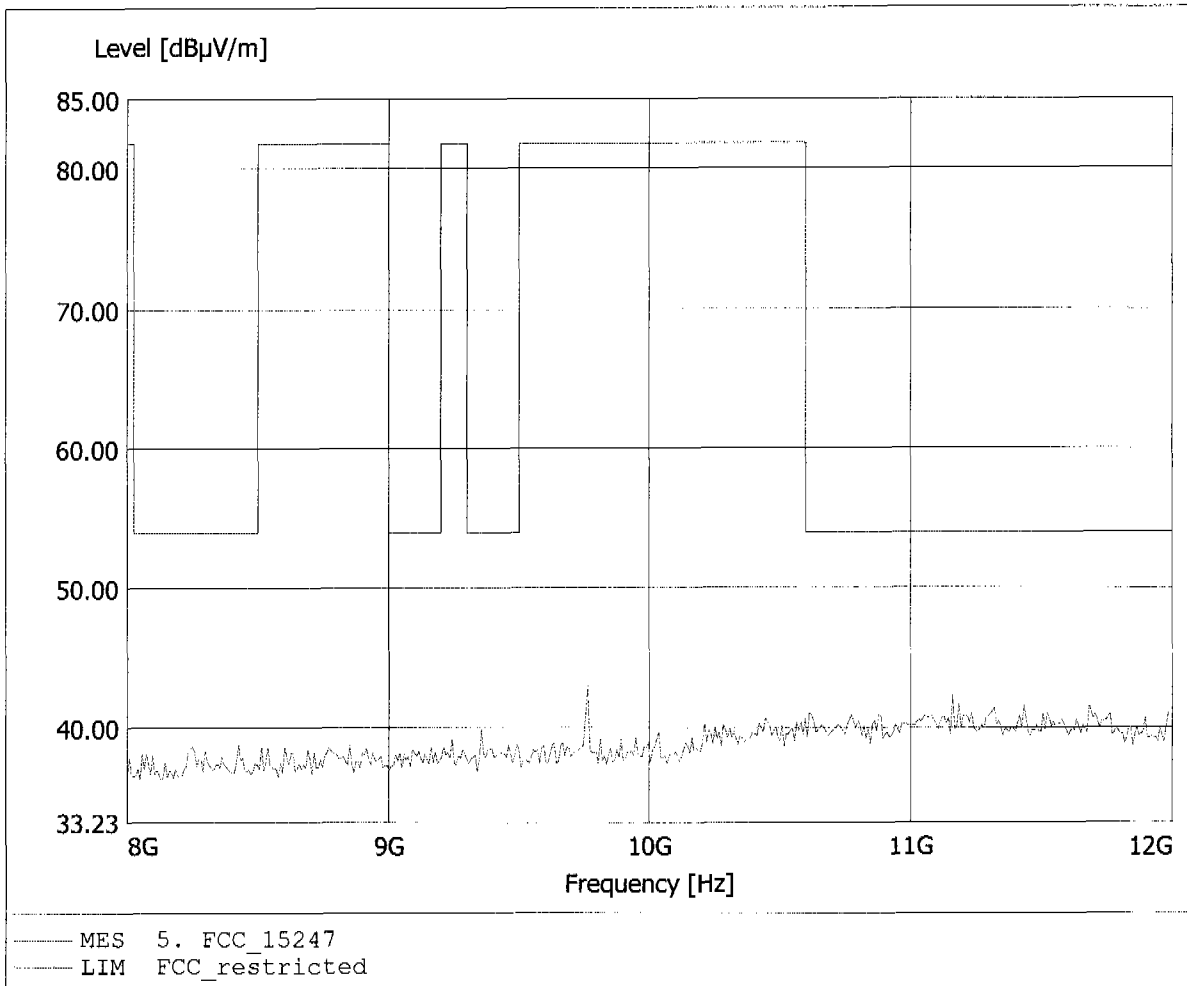
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2441 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 9.764GHz, Emax: 43.57dBµV/m, RBW: 1MHz



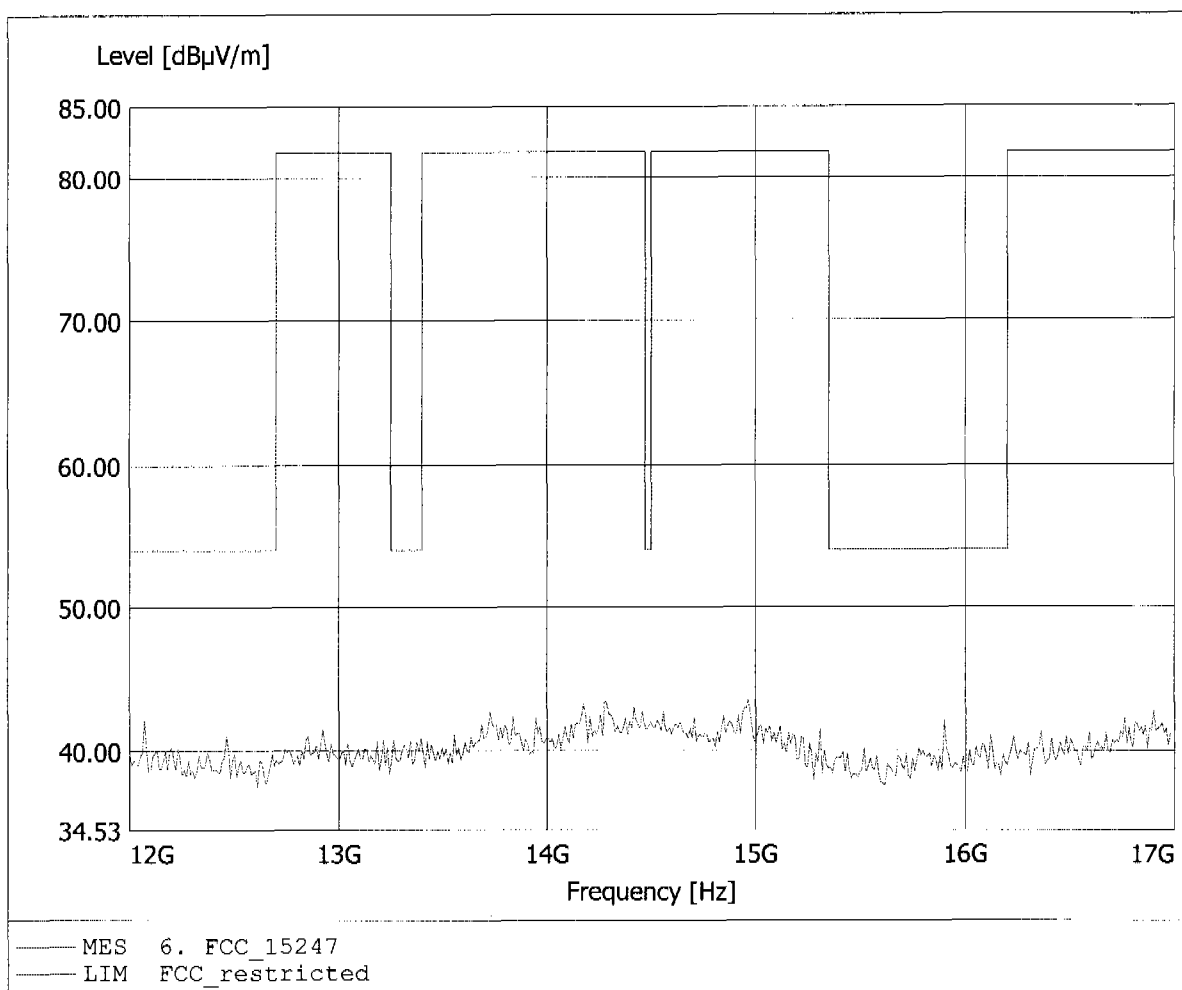
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: Bluetooth Headset  
Model / Freq.: HS820 / 2441 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 9.764GHz, Emax: 42.97dBµV/m, RBW: 1MHz



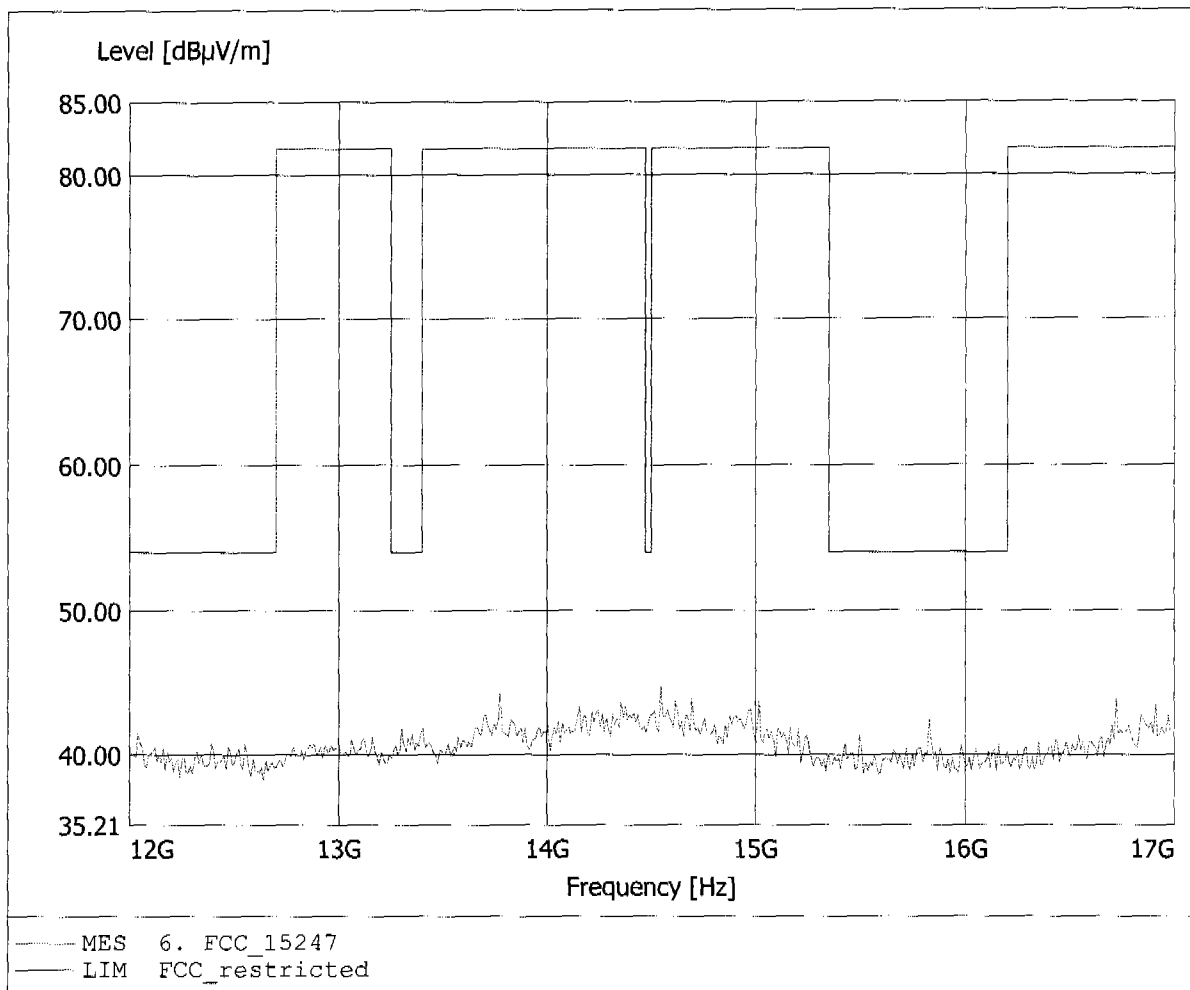
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2441 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 14.966GHz, Emax: 43.53dBµV/m, RBW: 1MHz



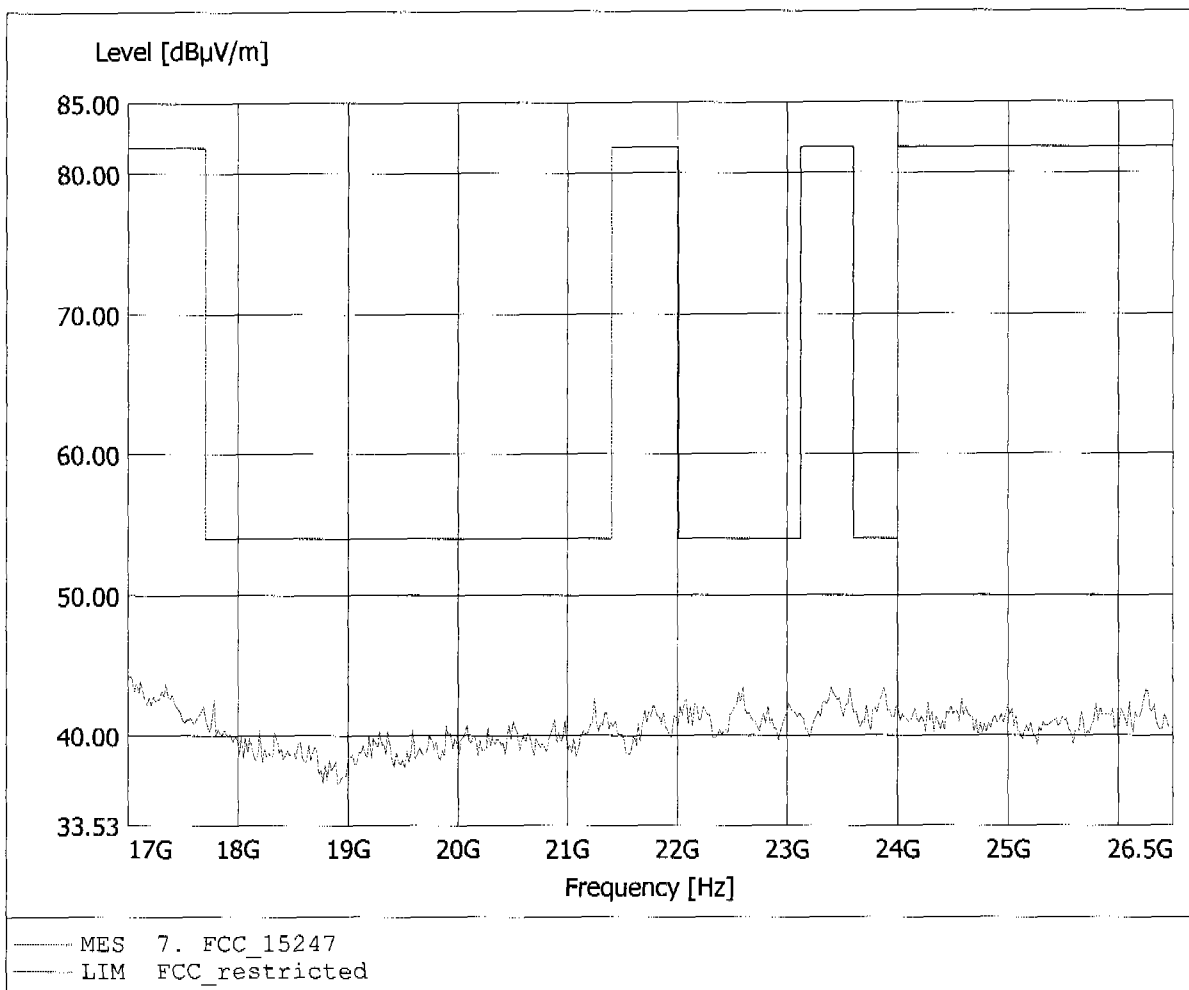
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2441 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 14.545GHz, Emax: 44.76dBµV/m, RBW: 1MHz



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

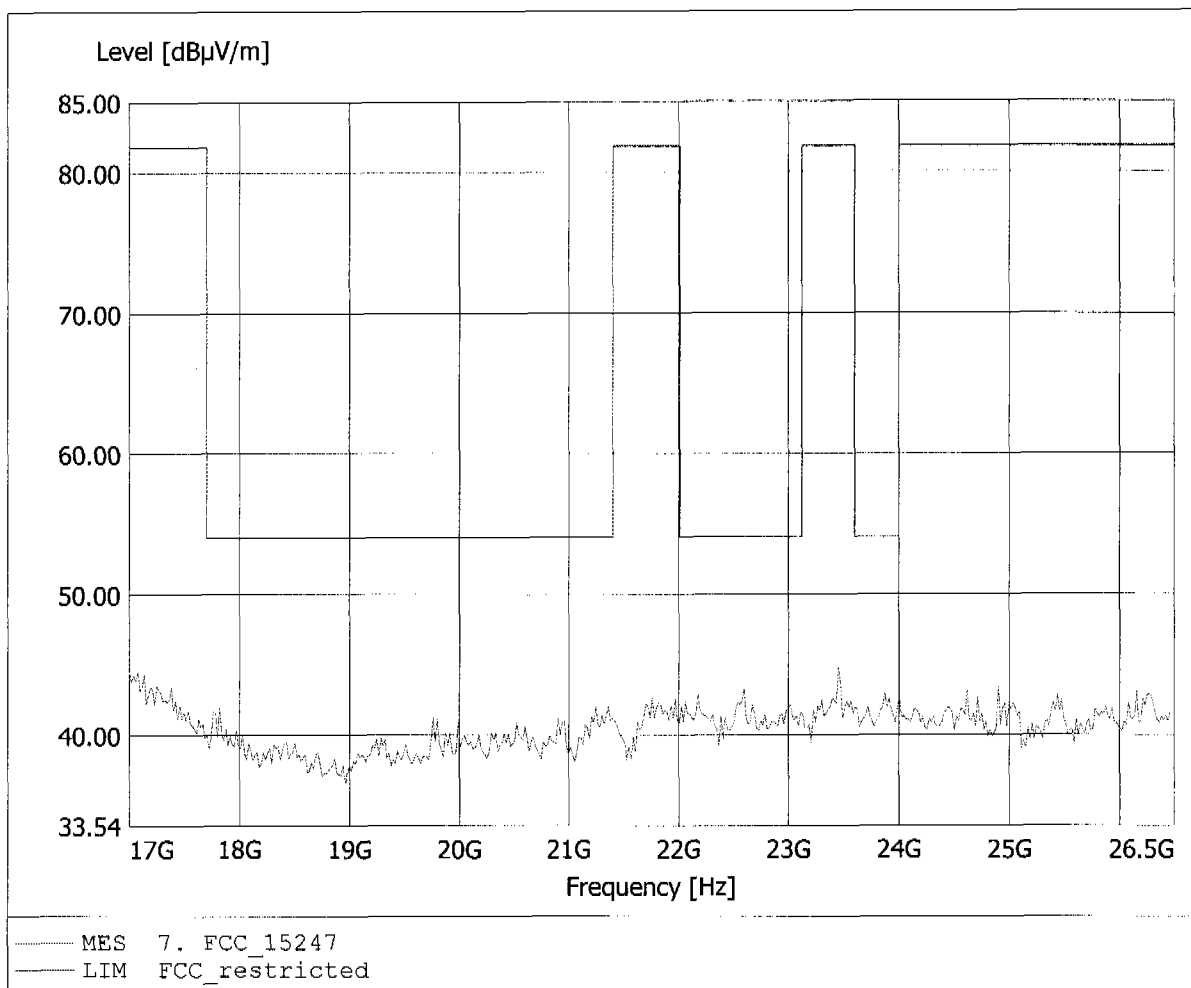
EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2441 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to S15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Comment 2: Freq: 17.019GHz, Emax: 44.31dBµV/m, RBW: 1MHz





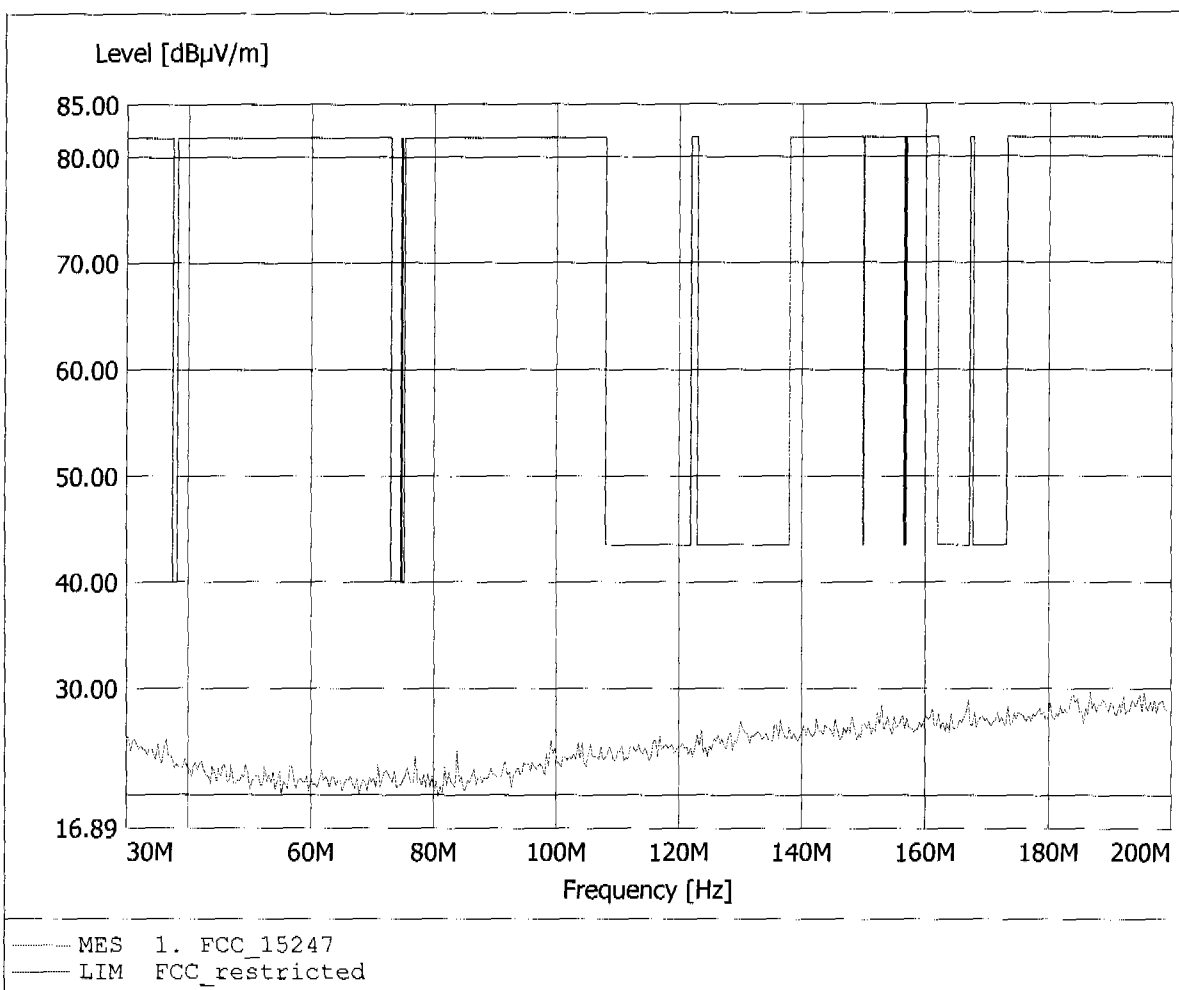
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2441 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Comment 2: Freq: 23.454GHz, Emax: 44.76dBµV/m, RBW: 1MHz



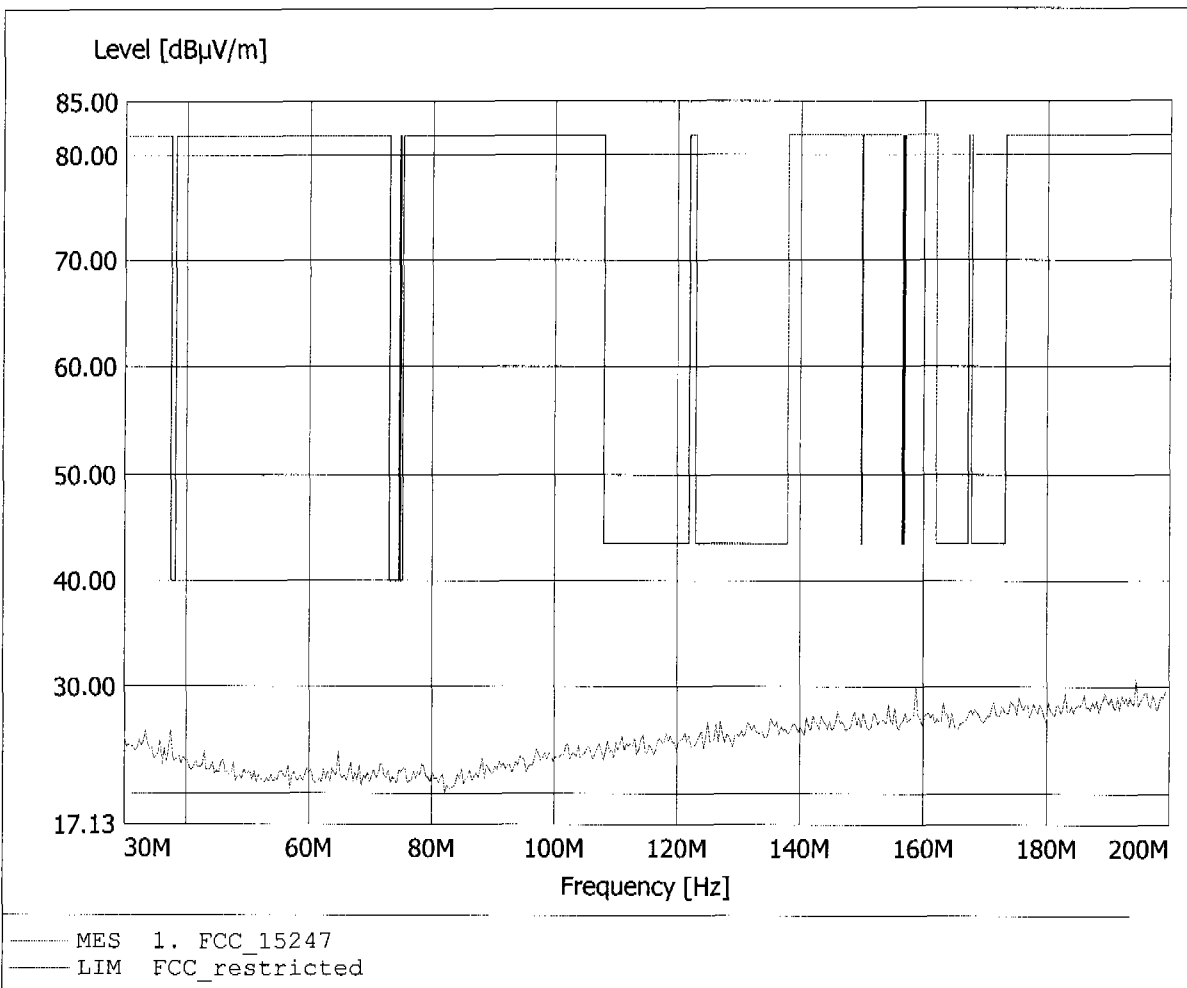
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2480 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 195.571MHz, Emax: 29.72dBµV/m, RBW: 100kHz



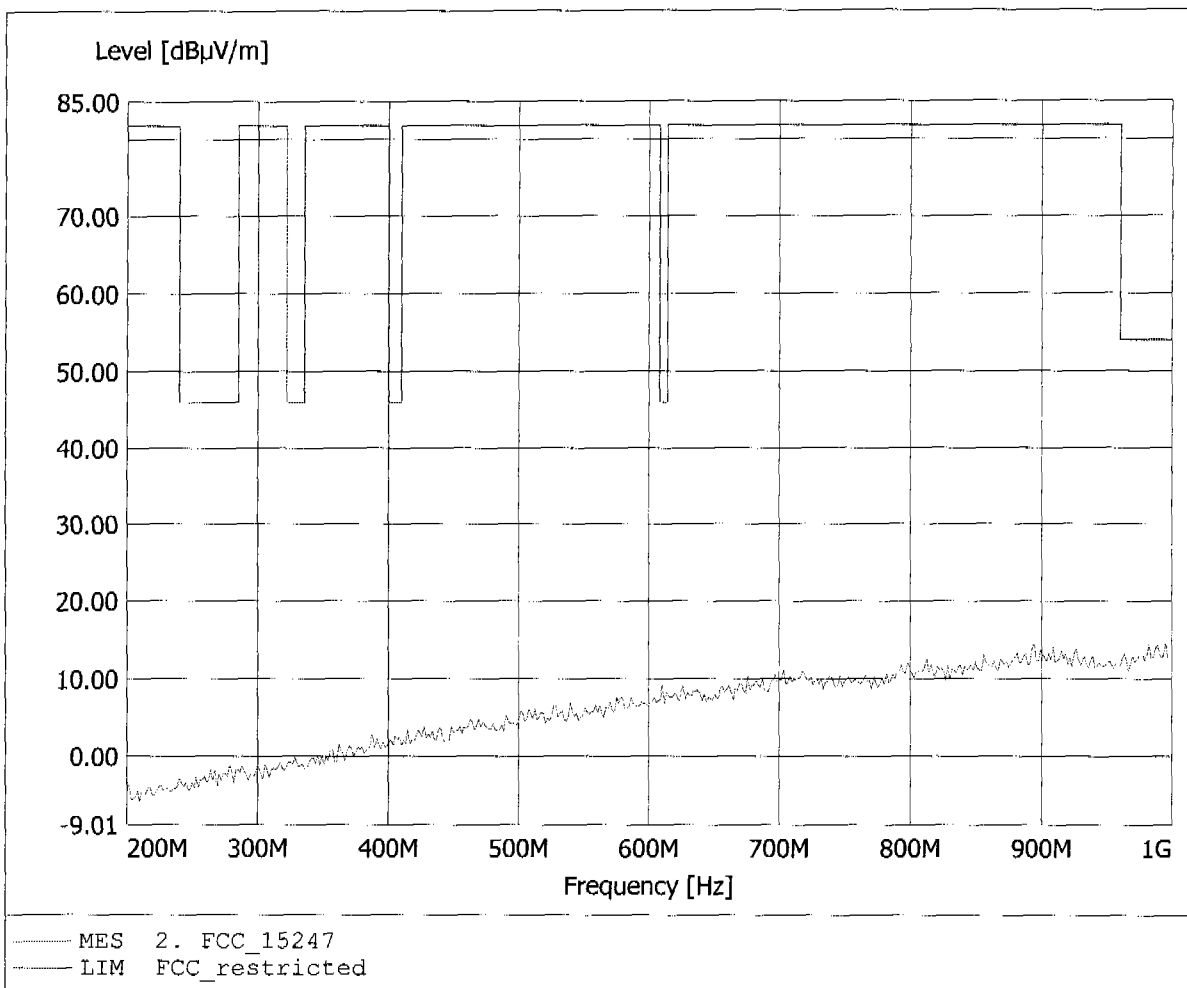
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2480 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HK 116  
Comment 2: Freq: 194.549MHz, Emax: 30.75dBµV/m, RBW: 100kHz



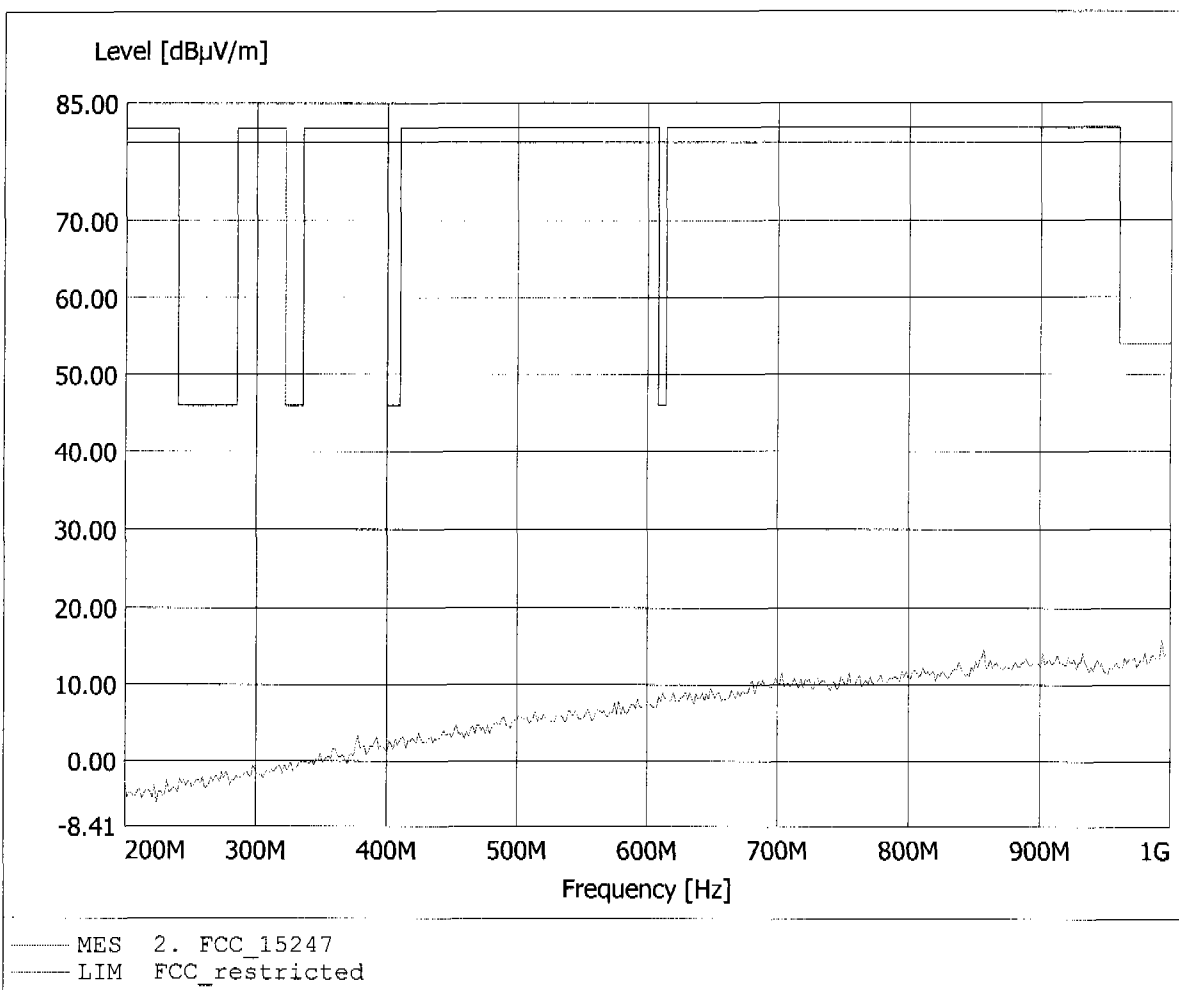
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2480 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.  
Comment 2: Freq: 995.190MHz, Emax: 14.56dBµV/m, RBW: 100kHz



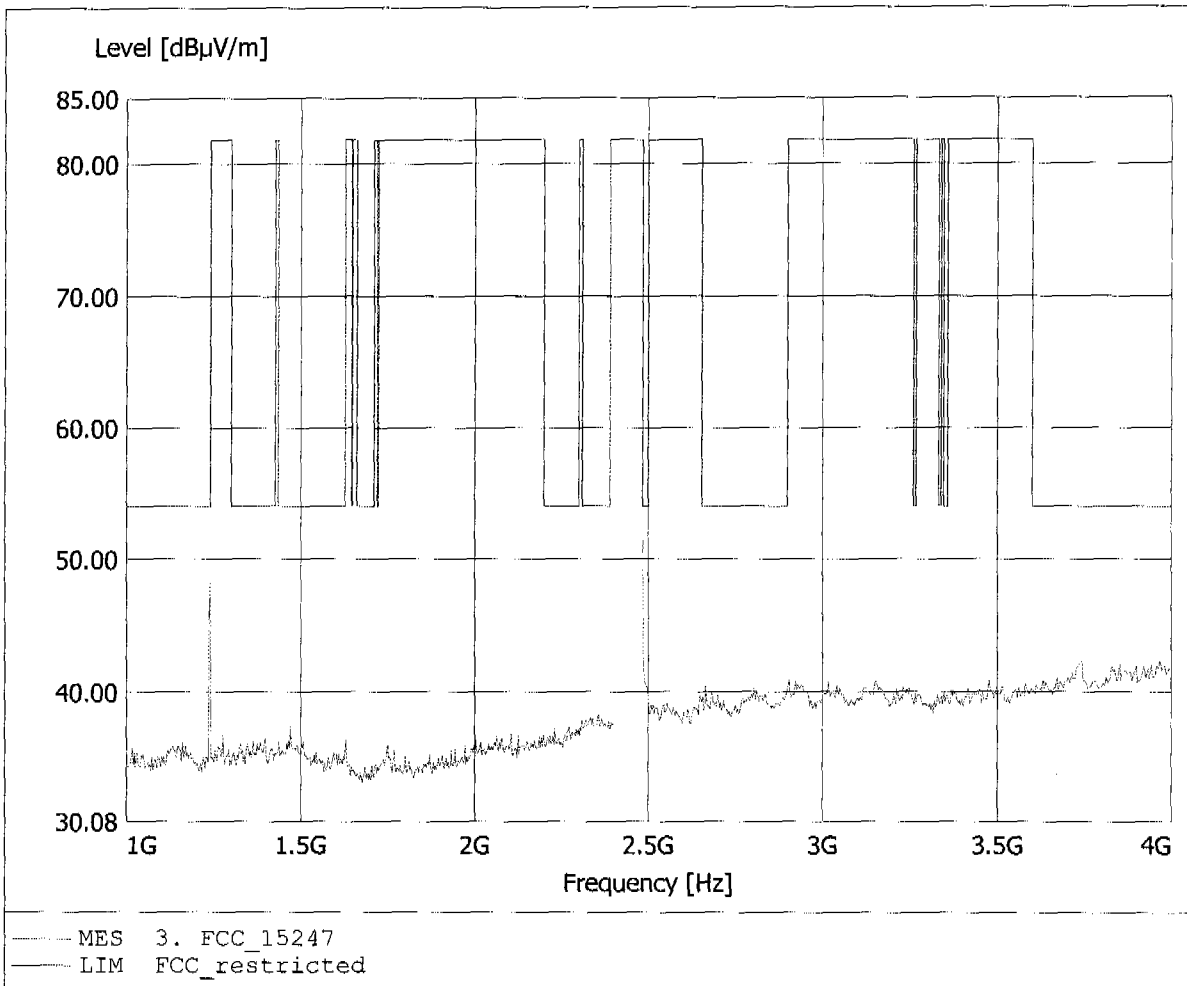
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2480 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247  
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.  
Comment 2: Freq: 993.587MHz, Emax: 16.01dBµV/m, RBW: 100kHz



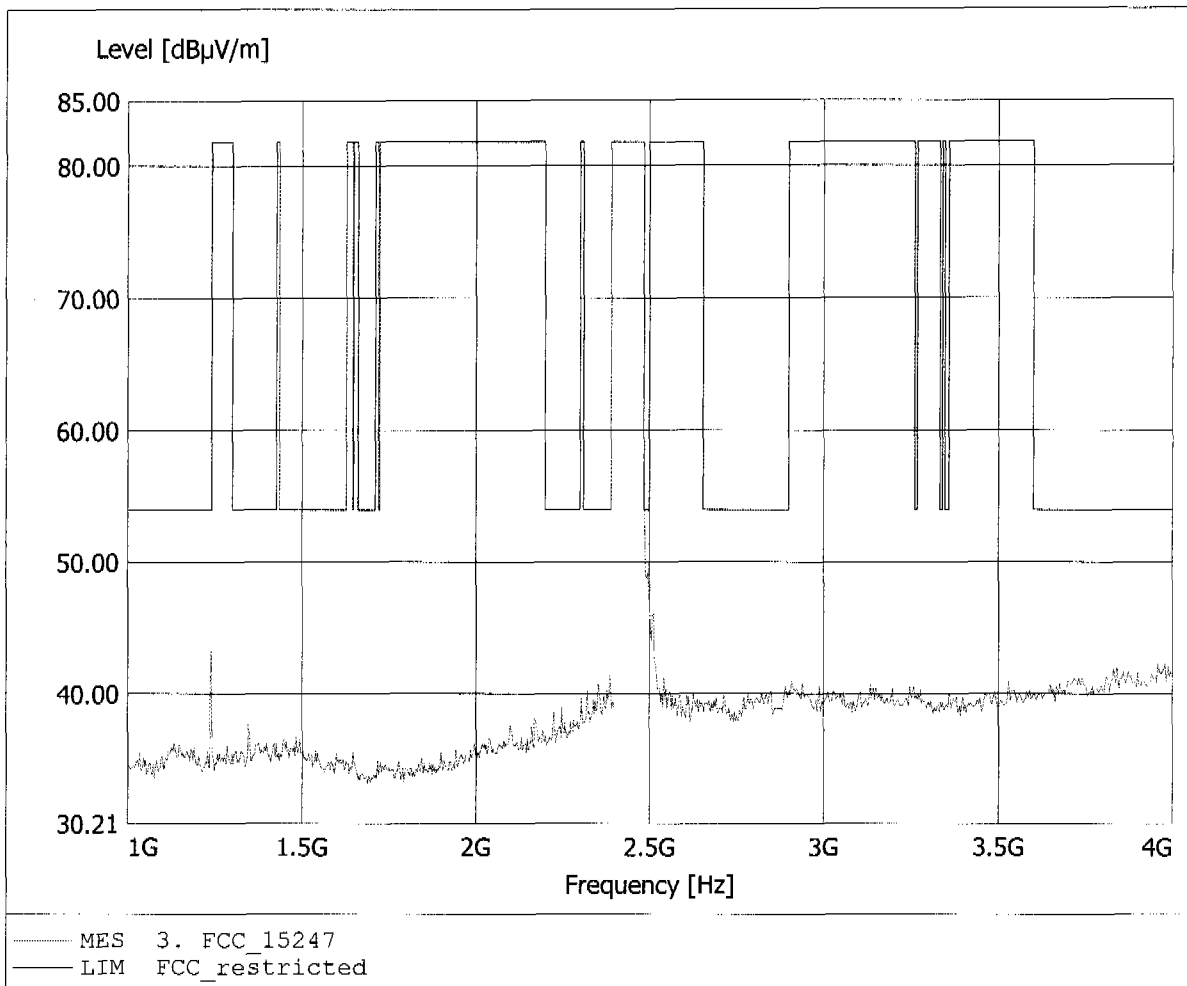
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2480 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 2.484GHz, Emax: 51.46dBµV/m, RBW: 1MHz



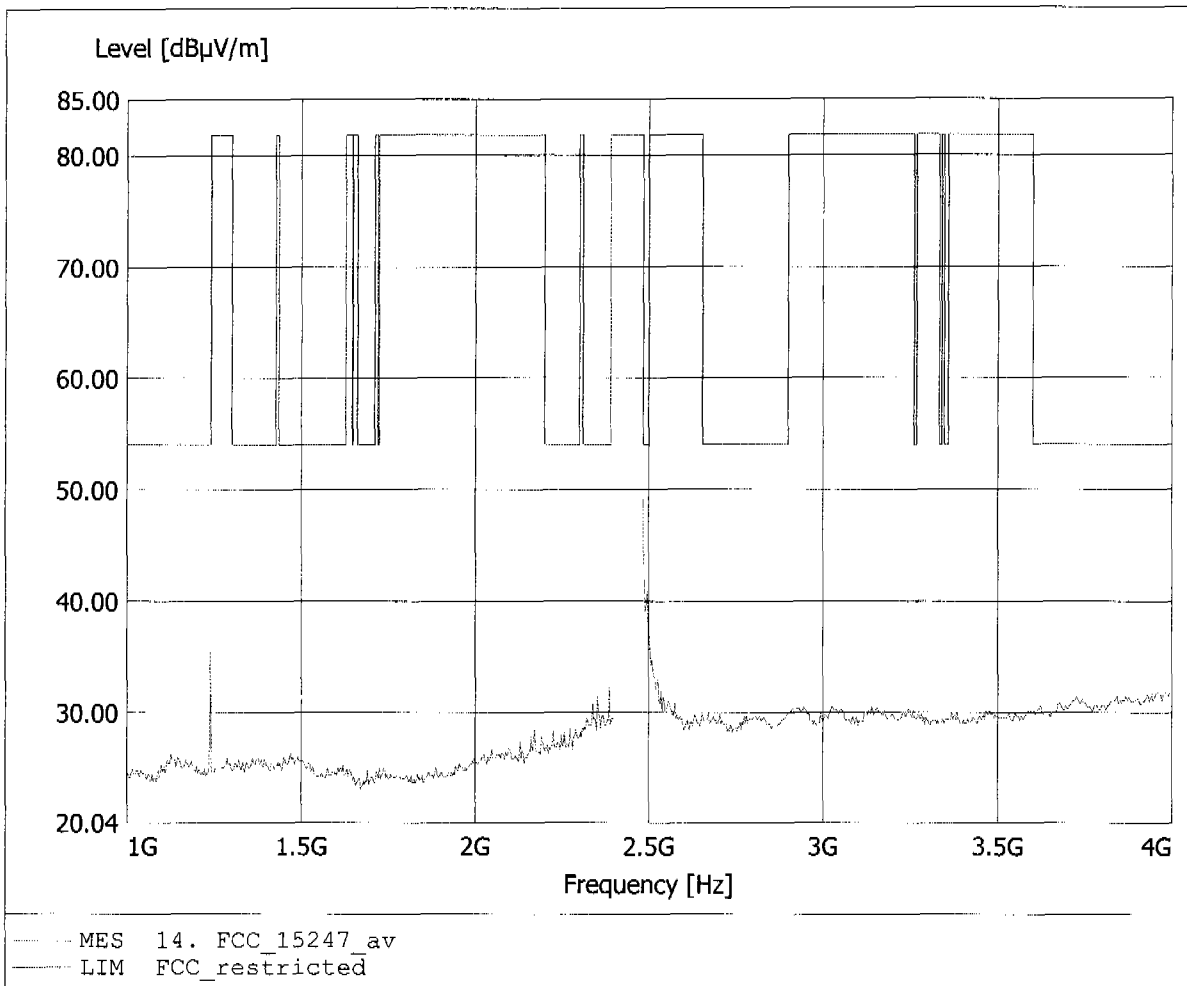
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2480 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to S15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 2.484GHz, Emax: 62.48dBµV/m, RBW: 1MHz



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

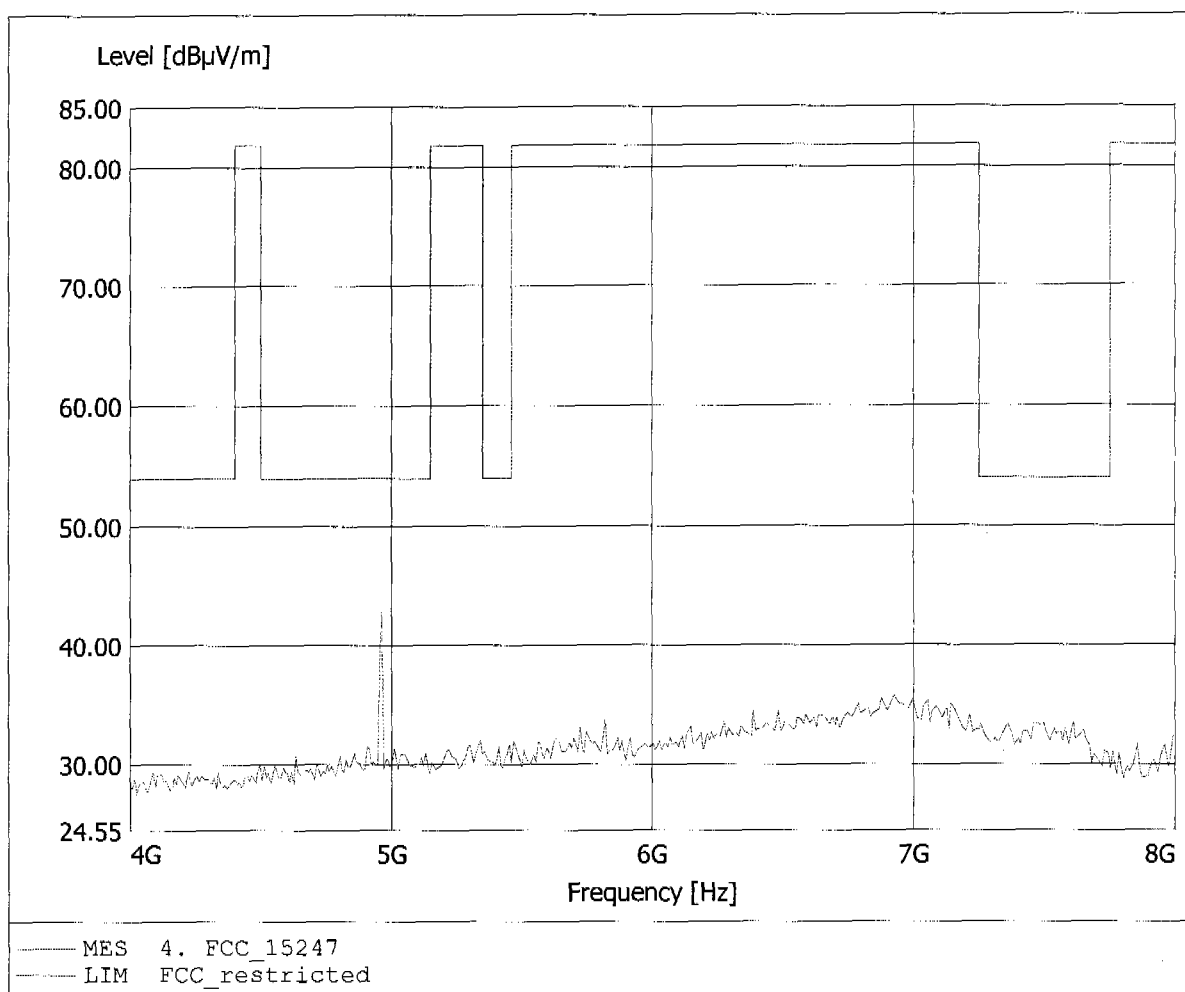
EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2480 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cerovsky  
Test Specification: according to §15.247, average detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, amplif.  
Comment 2: Freq: 2.484GHz, Emax: 49.11dBµV/m, RBW: 1MHz





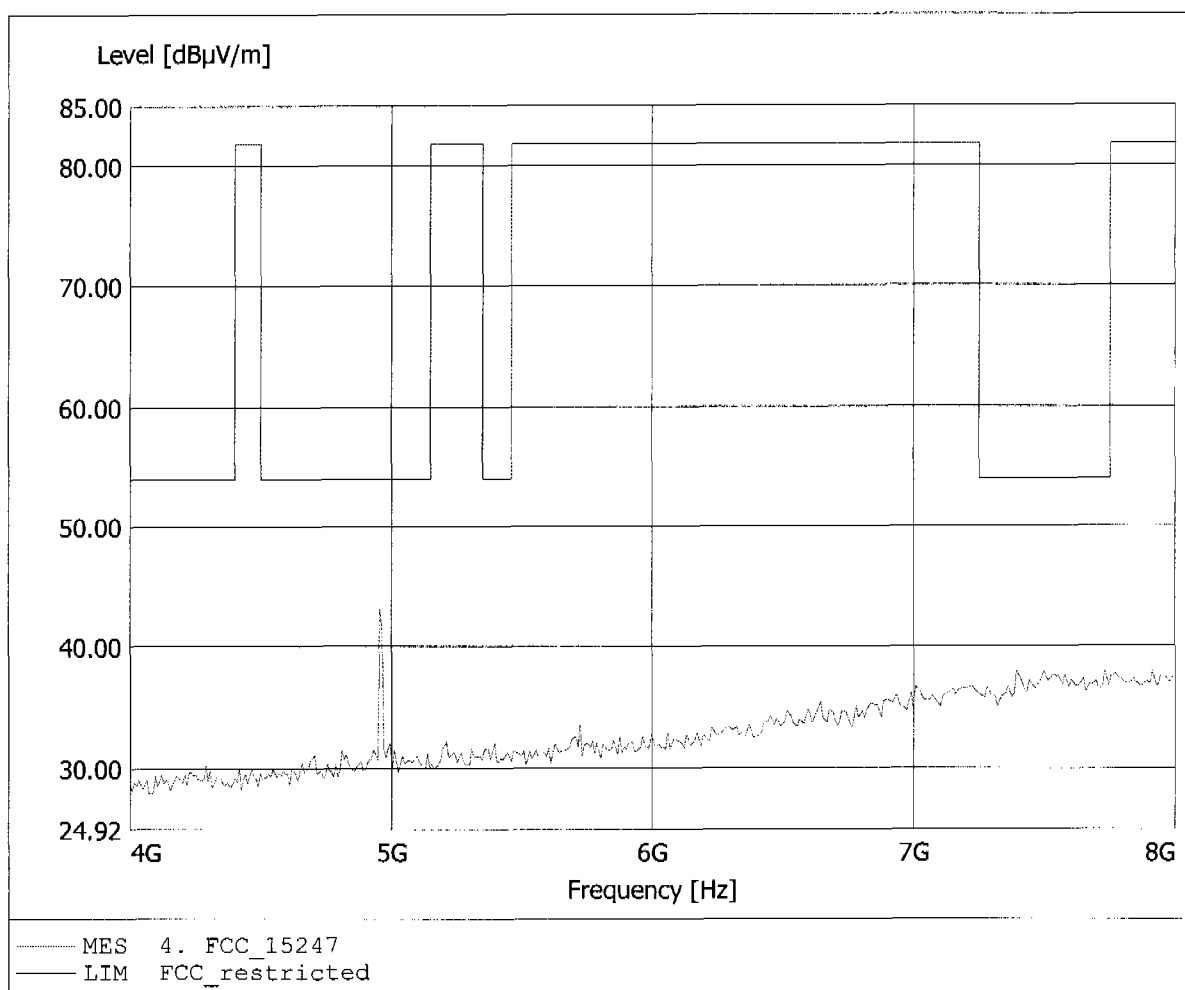
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2480 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 4.962GHz, Emax: 42.82dBµV/m, RBW: 1MHz



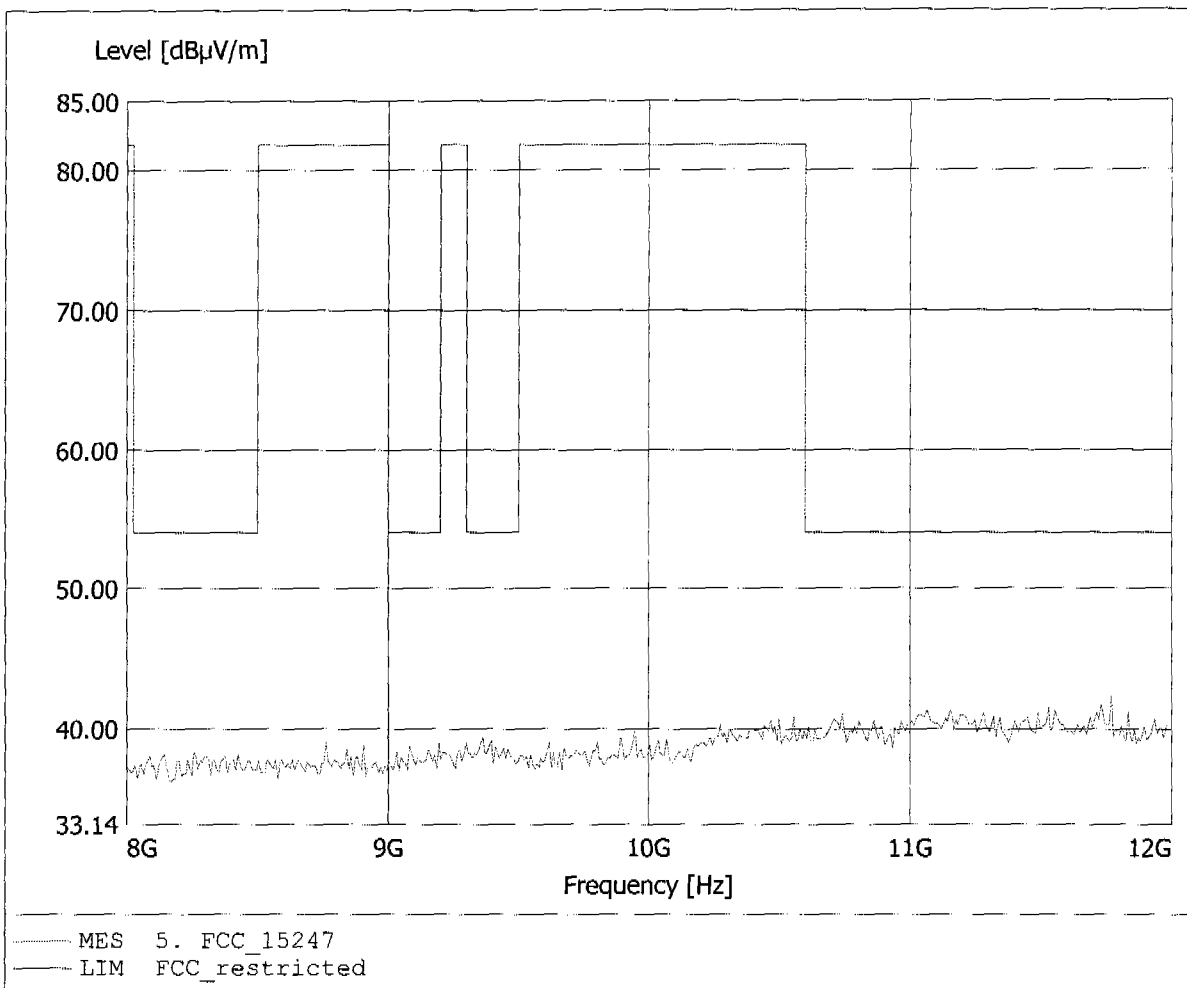
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2480 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 4.954GHz, Emax: 43.36dBuV/m, RBW: 1MHz



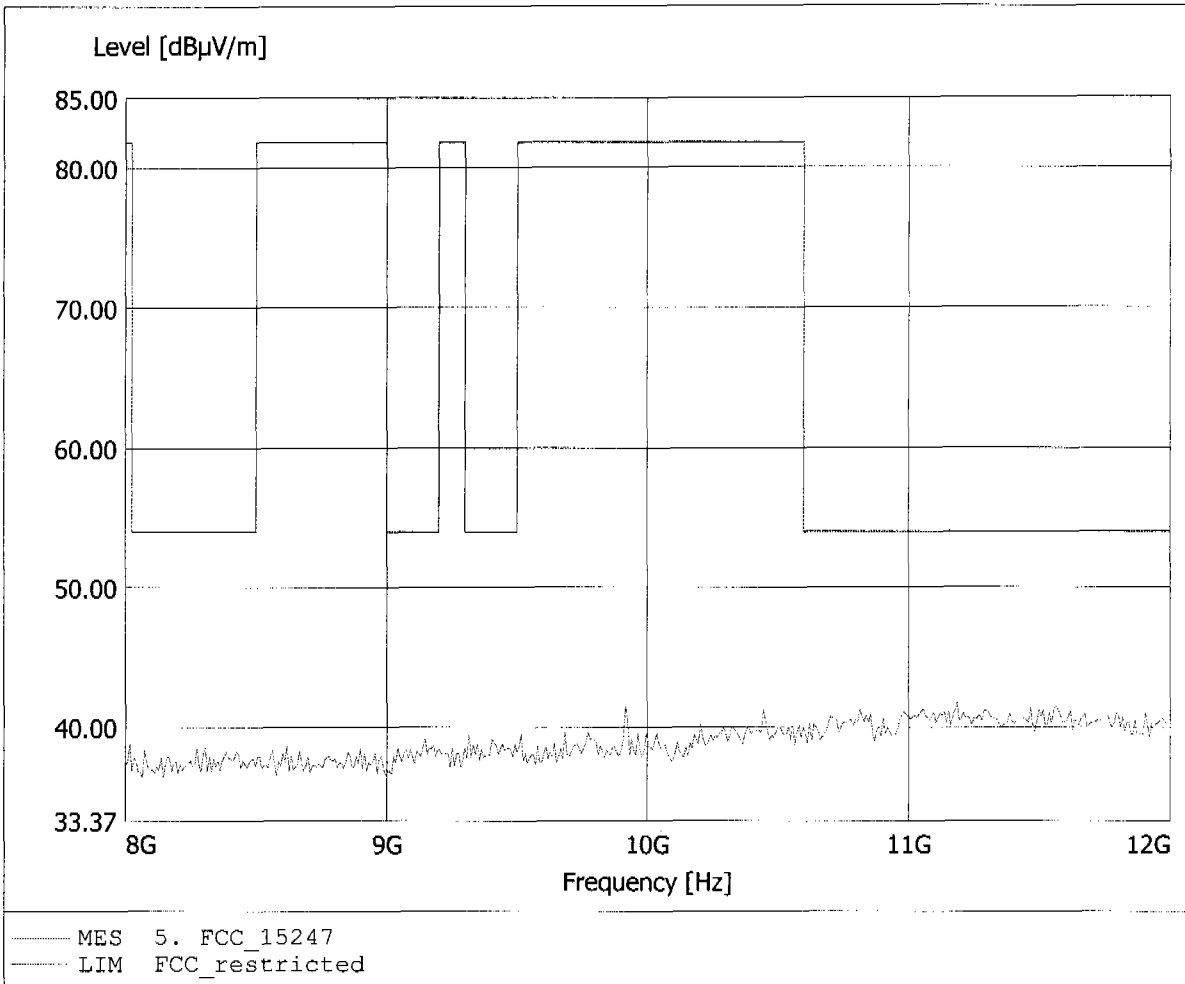
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2480 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 11.768GHz, Emax: 42.39dBµV/m, RBW: 1MHz



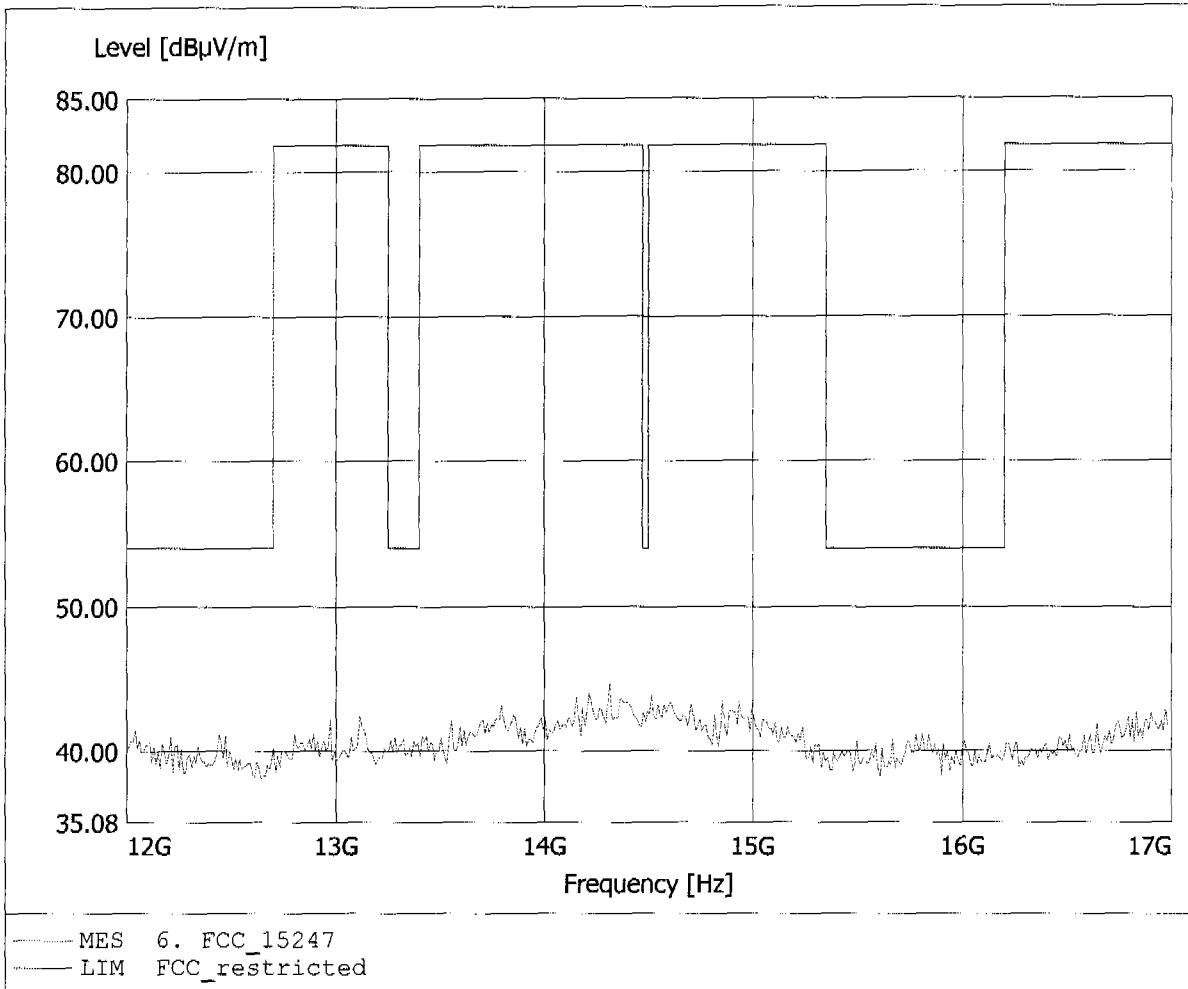
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2480 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 11.182GHz, Emax: 41.69dBµV/m, RBW: 1MHz



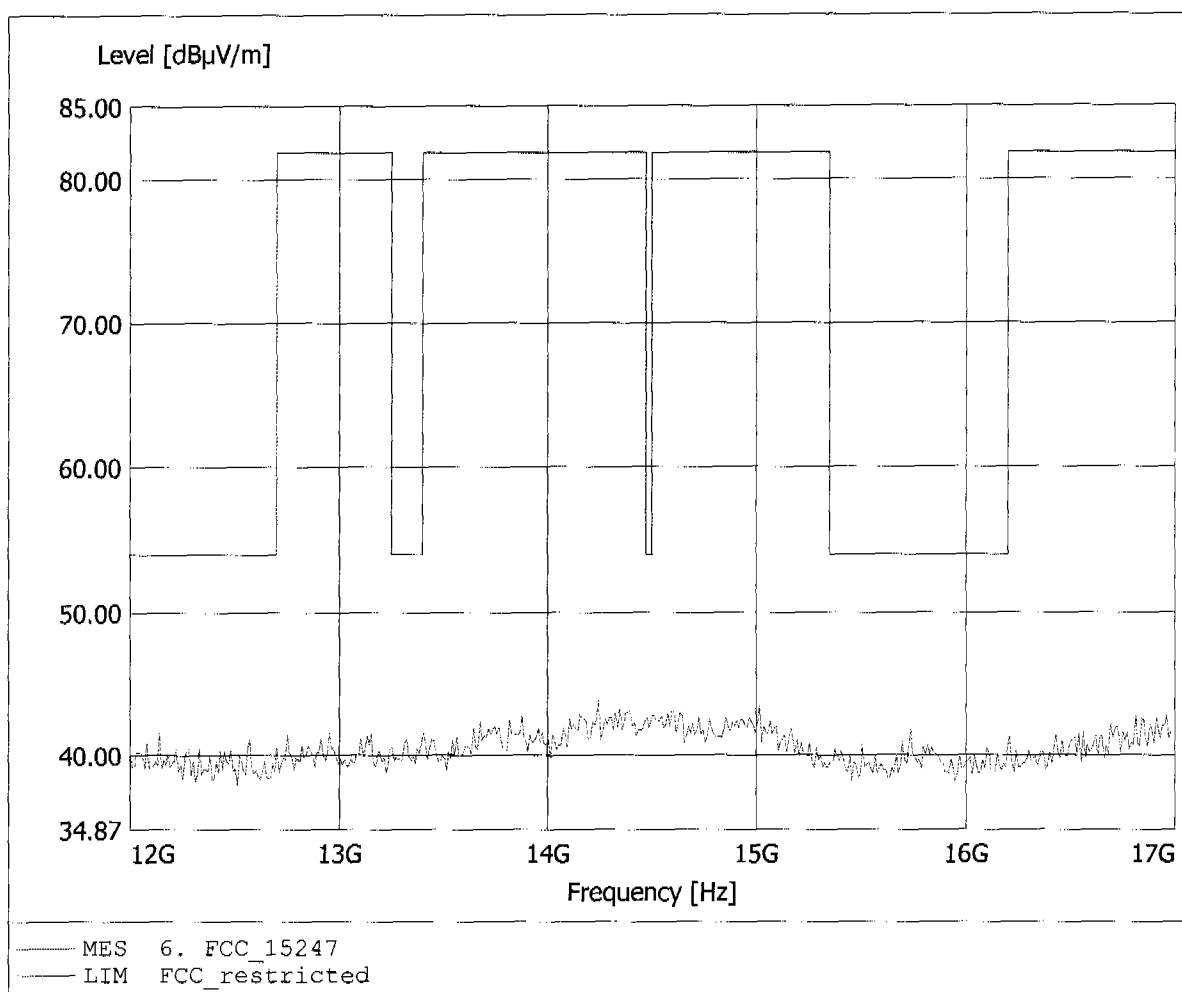
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2480 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cerovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 14.315GHz, Emax: 44.70dBuV/m, RBW: 1MHz



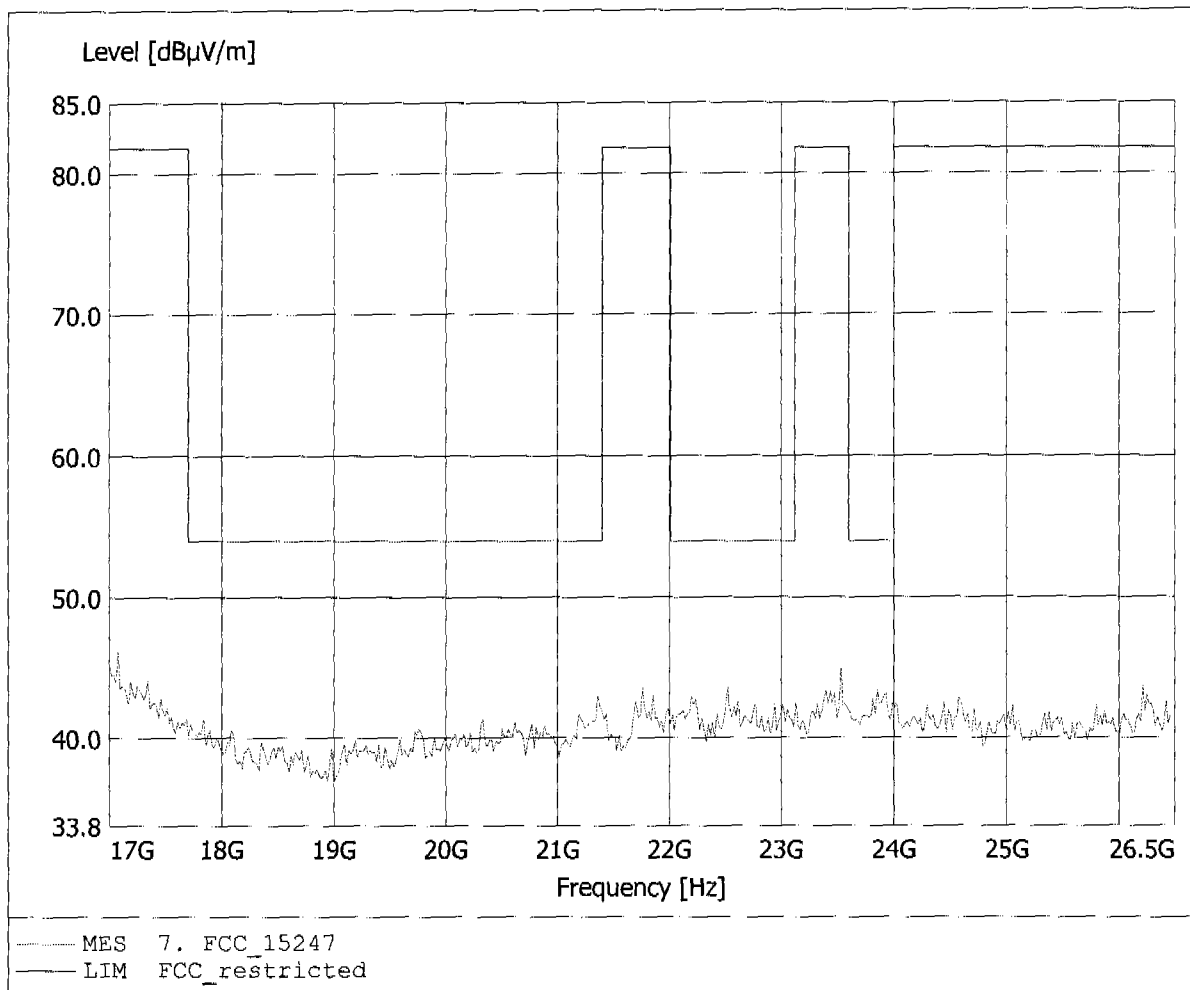
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2480 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: BBHA9120D, ampl.+HP.  
Comment 2: Freq: 14.244GHz, Emax: 43.84dBµV/m, RBW: 1MHz



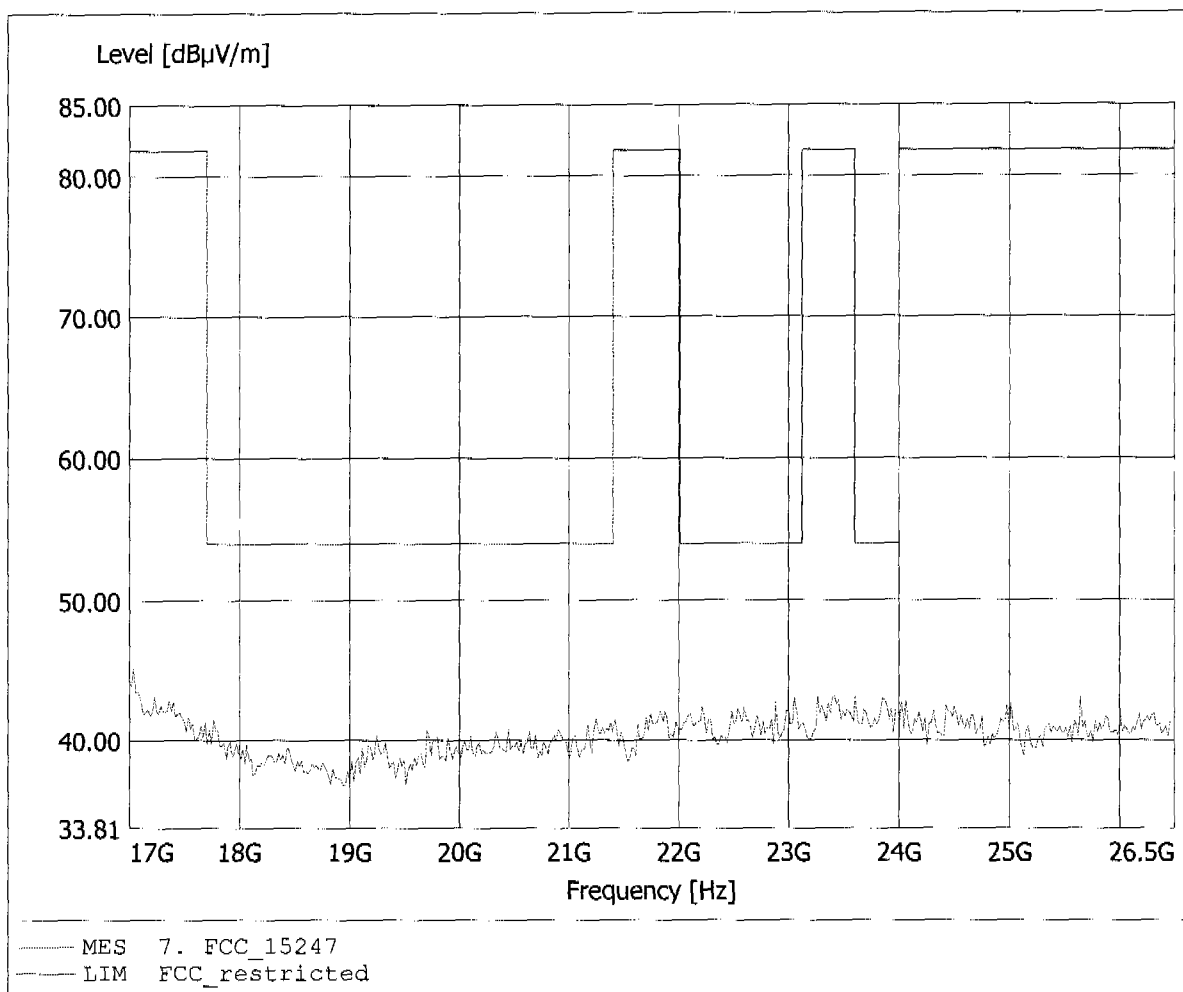
**Spurious emissions Field Strength  
FCC RULES PART 15, SUBPART C**

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2480 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Comment 2: Freq: 17.076GHz, Emax: 46.20dBµV/m, RBW: 1MHz



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

EUT: BlueTooth Headset  
Model / Freq.: HS820 / 2480 MHz  
Approval Holder: GN Netcom  
Operating Condition: Tnom: 23°C / Unom: 3.7 V DC ( Lit-Polymer battery)  
Test Site / Operator: ETS / Mr. Cersovsky  
Test Specification: according to §15.247, peak detector  
Comment 1: Dist.: 3m, Ant.: HL025, amplif.  
Comment 2: Freq: 17.038GHz, Emax: 45.14dBµV/m, RBW: 1MHz







## Appendix D

Spurious Emissions conducted - Transmitter operating

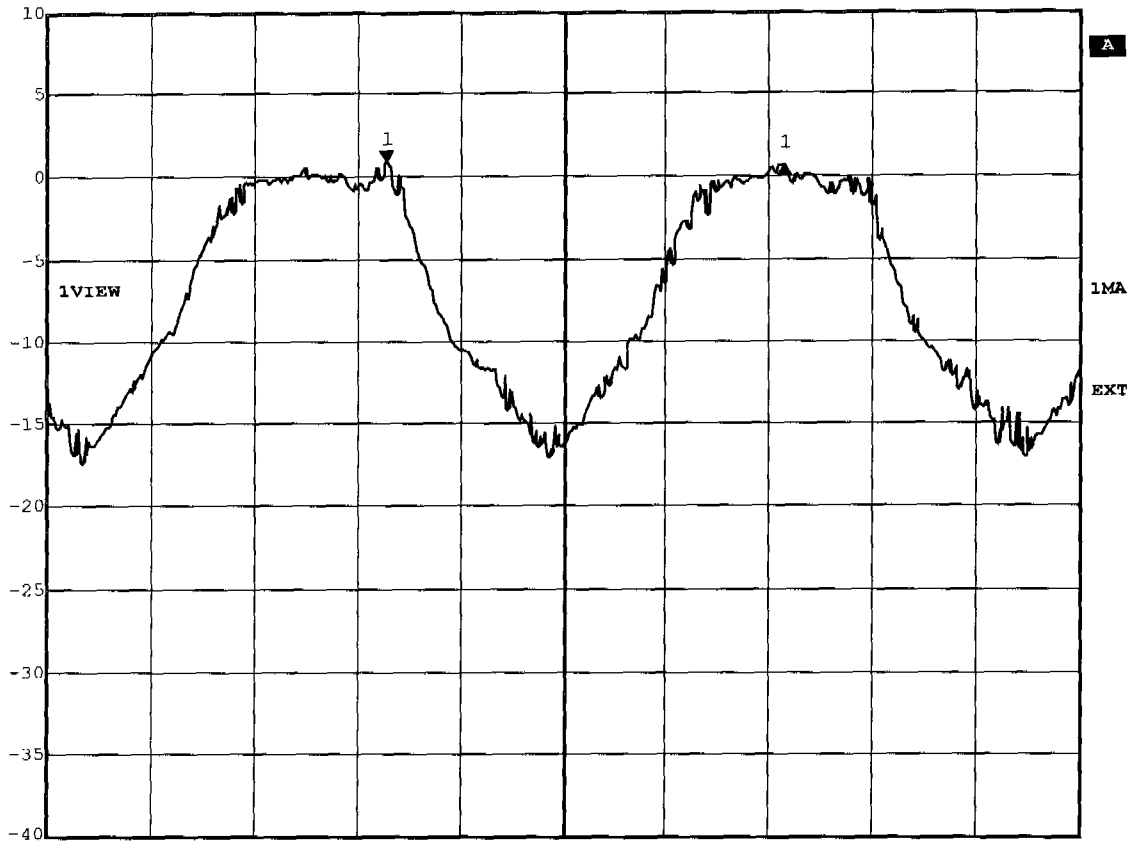


## Appendix E

### Carrier Frequency Separation



Delta 1 [T1]	RBW	100 kHz	RF Att	40 dB
-0.24 dB	VBW	100 kHz		
850.90180361 kHz	SWT	5 ms	Unit	dBm
Ref Lvl				
10 dBm				



Center 2.441528556 GHz      220 kHz/      Span 2.2 MHz

Title: Carrier Frequency Separation  
Comment A: HS820  
Date: 4.MAR.2004 10:10:51



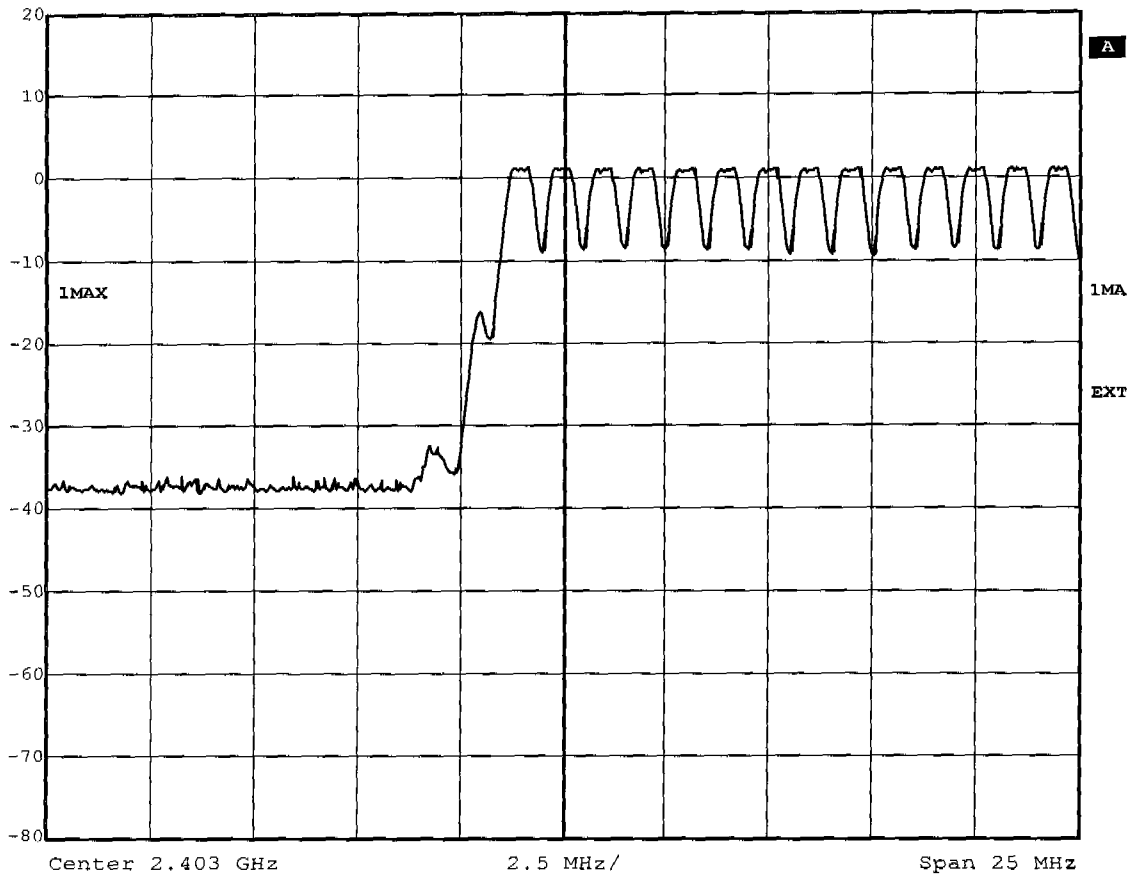
## Appendix F

Number of Hopping Frequencies



Ref Lvl  
20 dBm

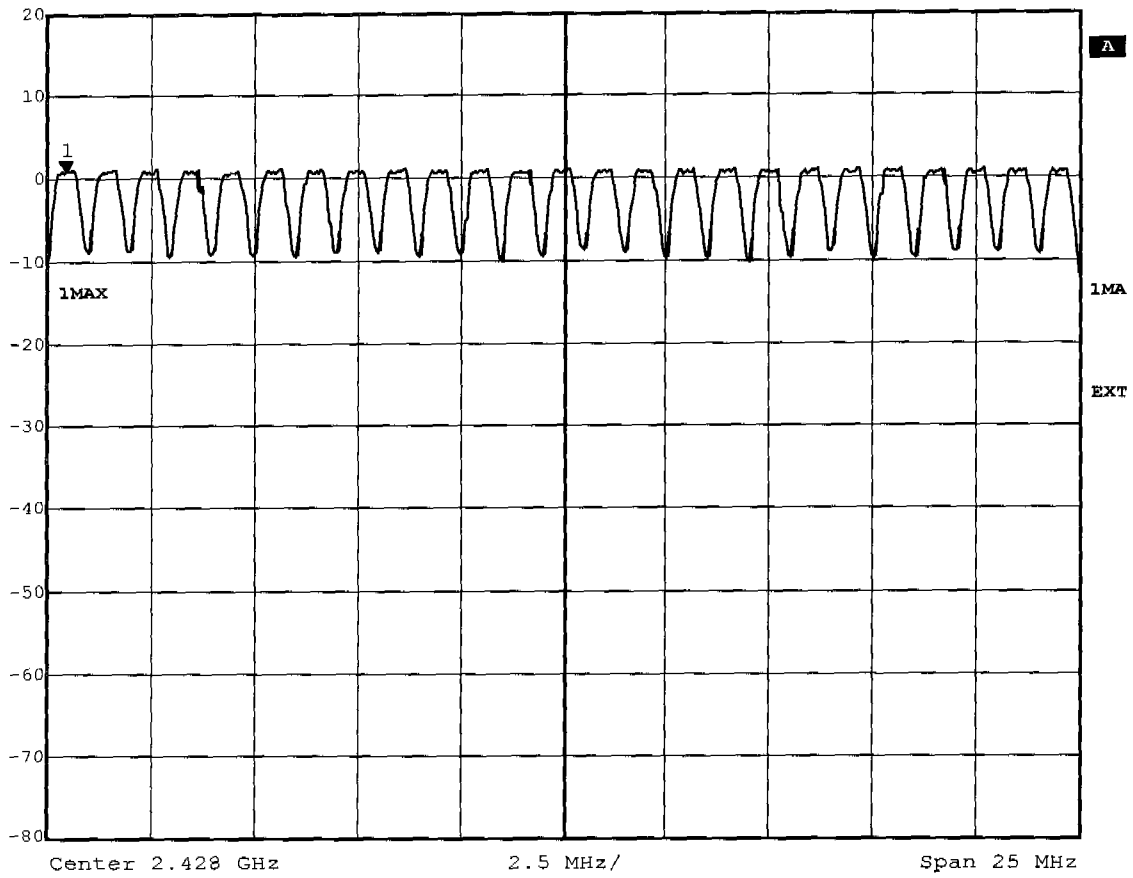
RBW 300 kHz RF Att 50 dB  
VBW 300 kHz  
SWT 5 ms Unit dBm



Title: Number of Hopping Frequencies Ch.: 0-13  
Comment A: HS820  
Date: 4.MAR.2004 10:20:26



Marker 1 [T1] RBW 300 kHz RF Att 50 dB  
Ref Lvl 0.59 dBm VBW 300 kHz  
20 dBm 2.41595090 GHz SWT 5 ms Unit dBm

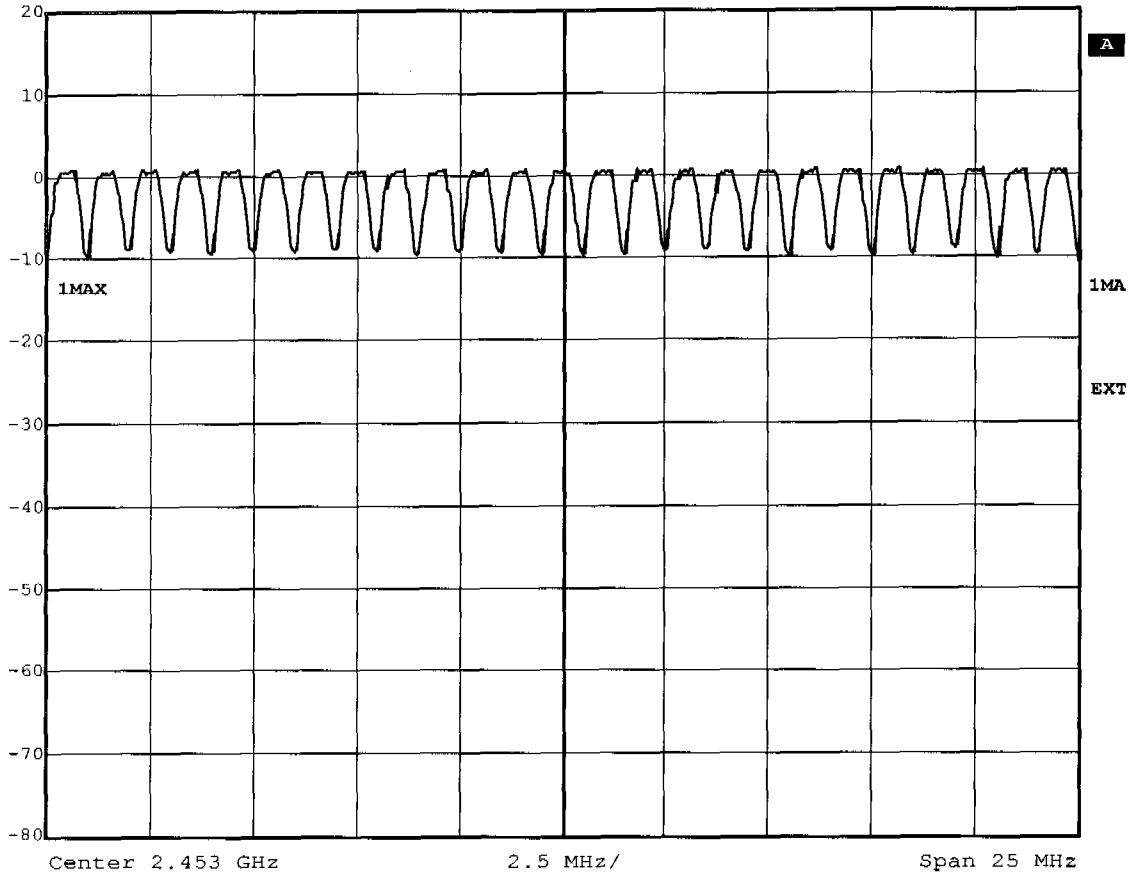


Title: Number of Hopping Frequencies Ch.: 14-38  
Comment A: HS820  
Date: 4.MAR.2004 10:21:51



Ref Lvl  
20 dBm

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

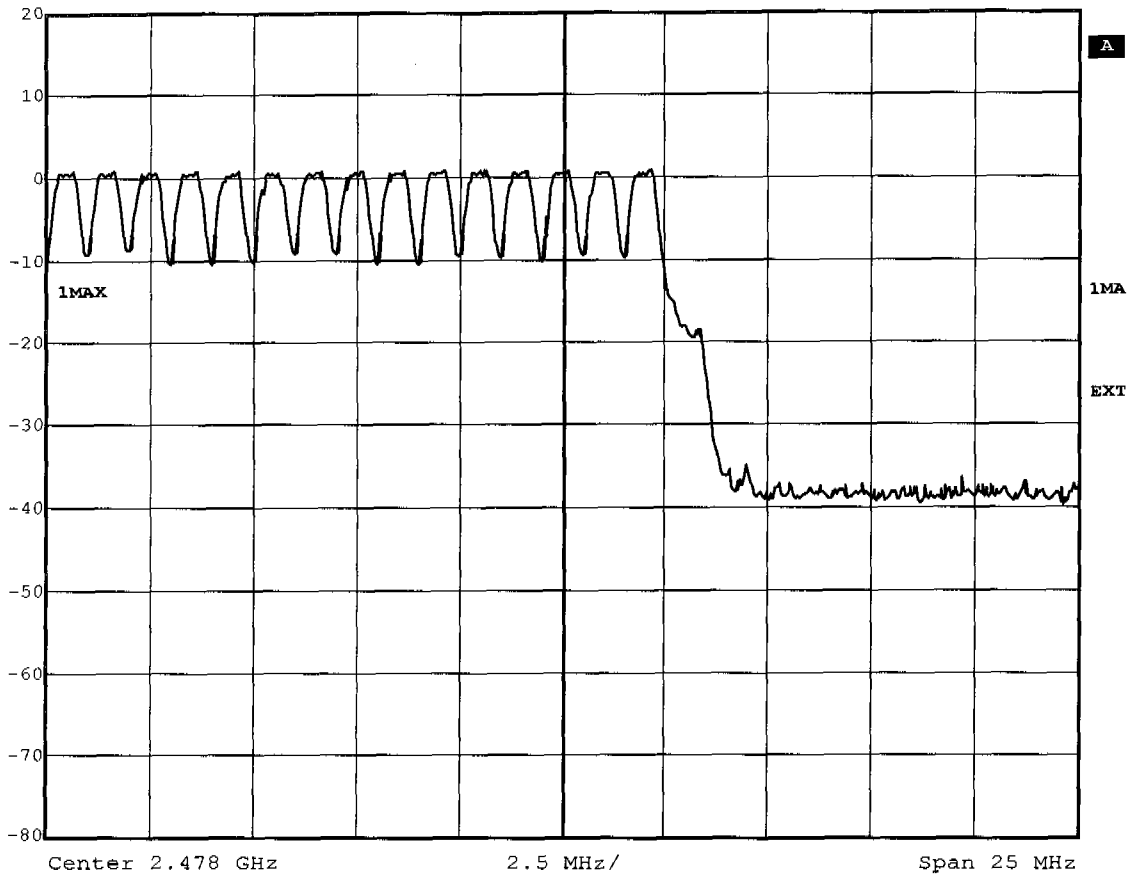


Title: Number of Hopping Frequencies Ch.: 39-63  
Comment A: HS820  
Date: 4.MAR.2004 10:23:13



Ref Lvl  
20 dBm

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



Title: Number of Hopping Frequencies Ch.: 64-78  
Comment A: HS820  
Date: 4.MAR.2004 10:24:24



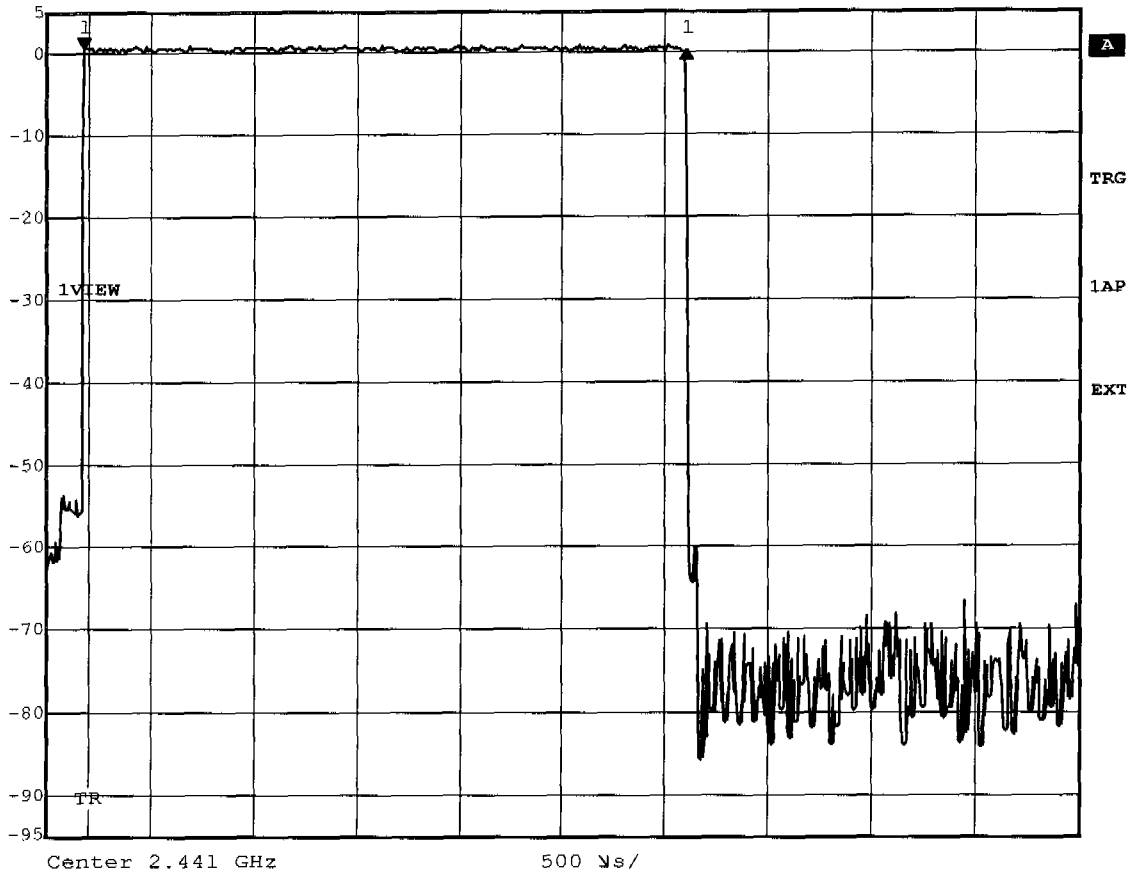


## Appendix G

Time of Occupancy (Dwell Time)



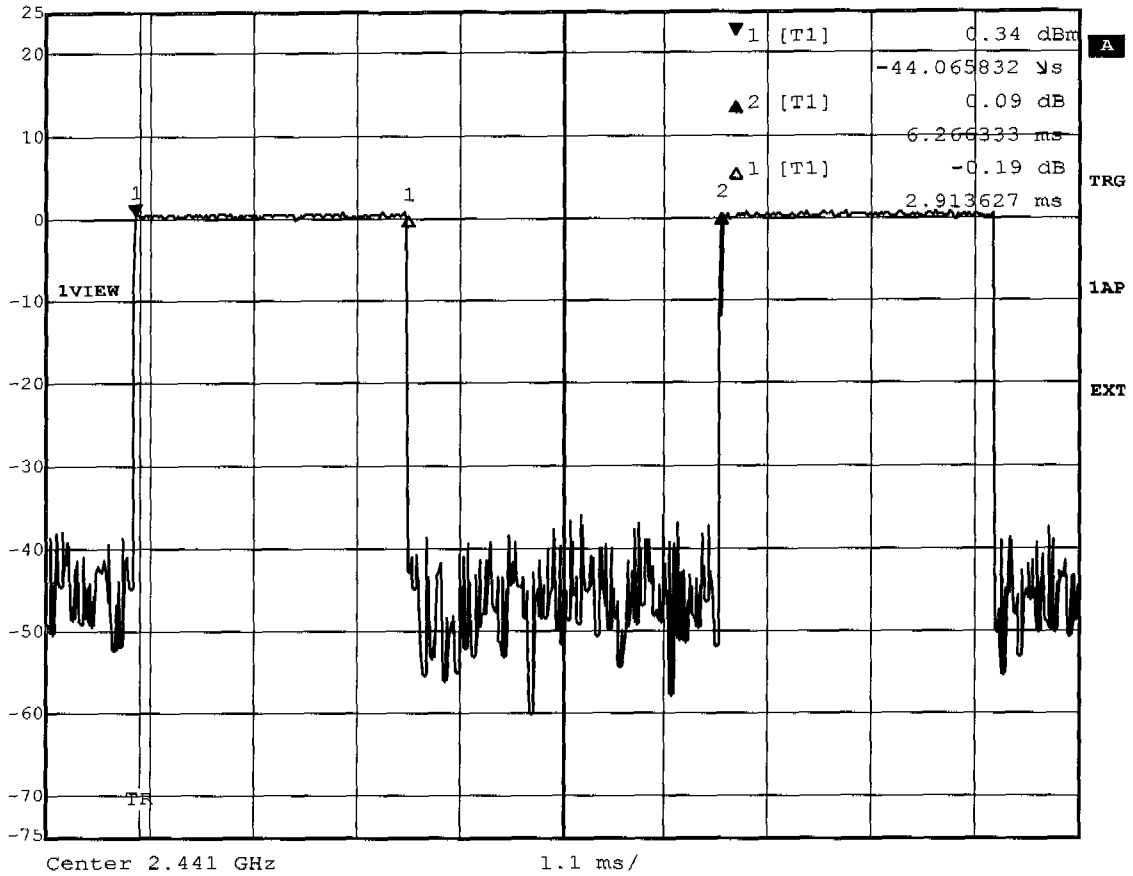
Delta 1 [T1]	RBW	1 MHz	RF Att	20 dB
-0.28 dB	VBW	1 MHz		
2.922709 ms	SWT	5 ms	Unit	dBm
Ref Lvl				
5 dBm				



Title: Time of occupancy (Hopping DH5) 64 events \* 2.923ms=187.07ms  
Comment A: HS820  
Date: 4.MAR.2004 10:14:38



Delta 2 [T1] RBW 1 MHz RF Att 50 dB  
Ref Lvl 0.09 dB VBW 1 MHz  
25 dBm 6.266333 ms SWT 11 ms Unit dBm



Title: Duty Cycle  
Comment A: HS820  
Date: 4.MAR.2004 09:52:32



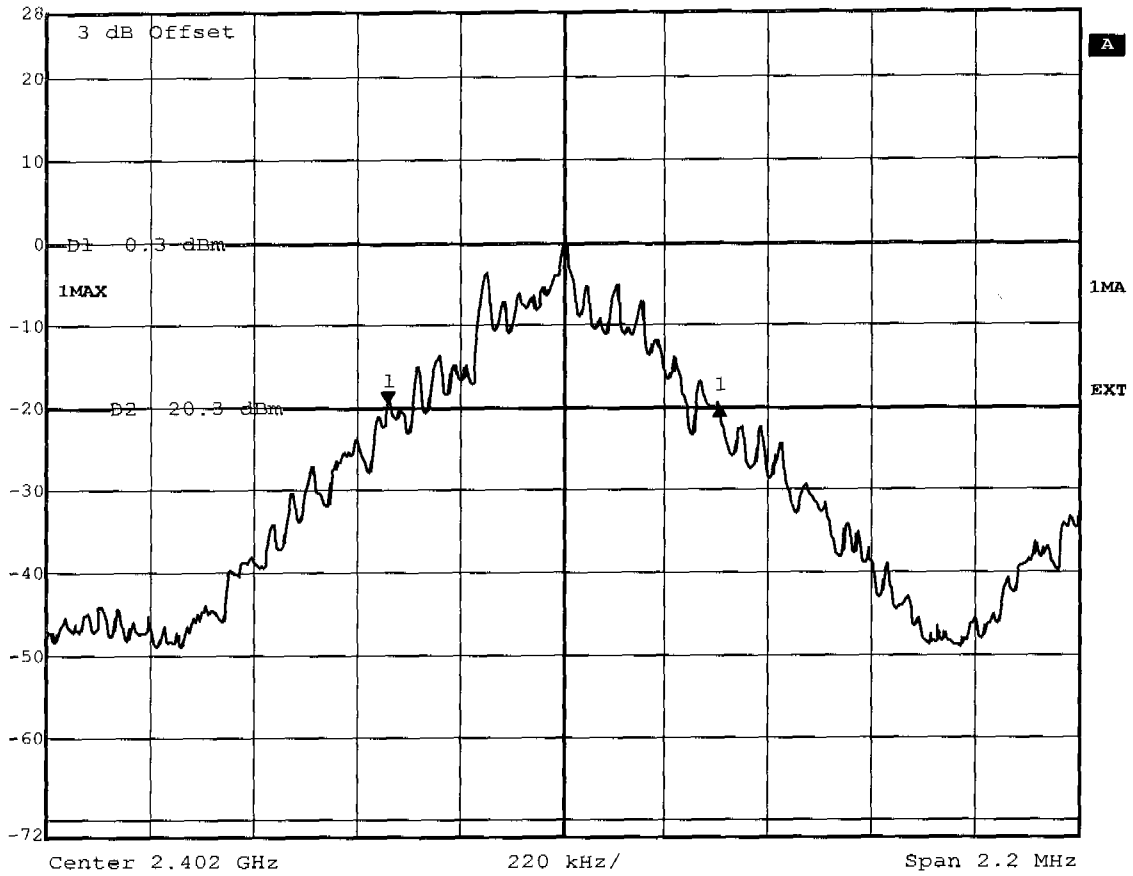
## Appendix H

20dB Bandwidth



Delta 1 [T1]	RBW	10 kHz	RF Att	50 dB
-0.37 dB	VBW	10 kHz		
709.81963928 kHz	SWT	56 ms	Unit	dBm

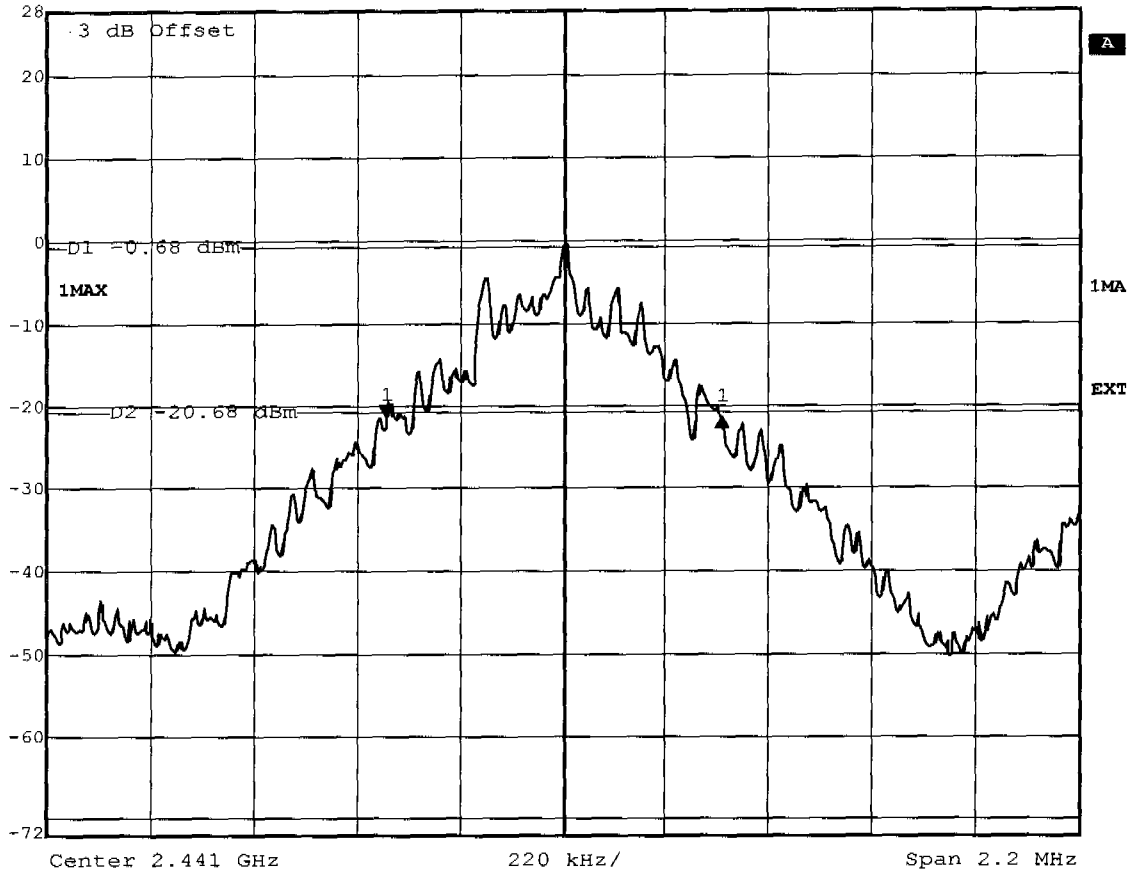
Ref Lvl  
28 dBm



Title: -20dB Bandwidth Ch.: 0  
Comment A: HS820  
Date: 4.MAR.2004 21:08:28



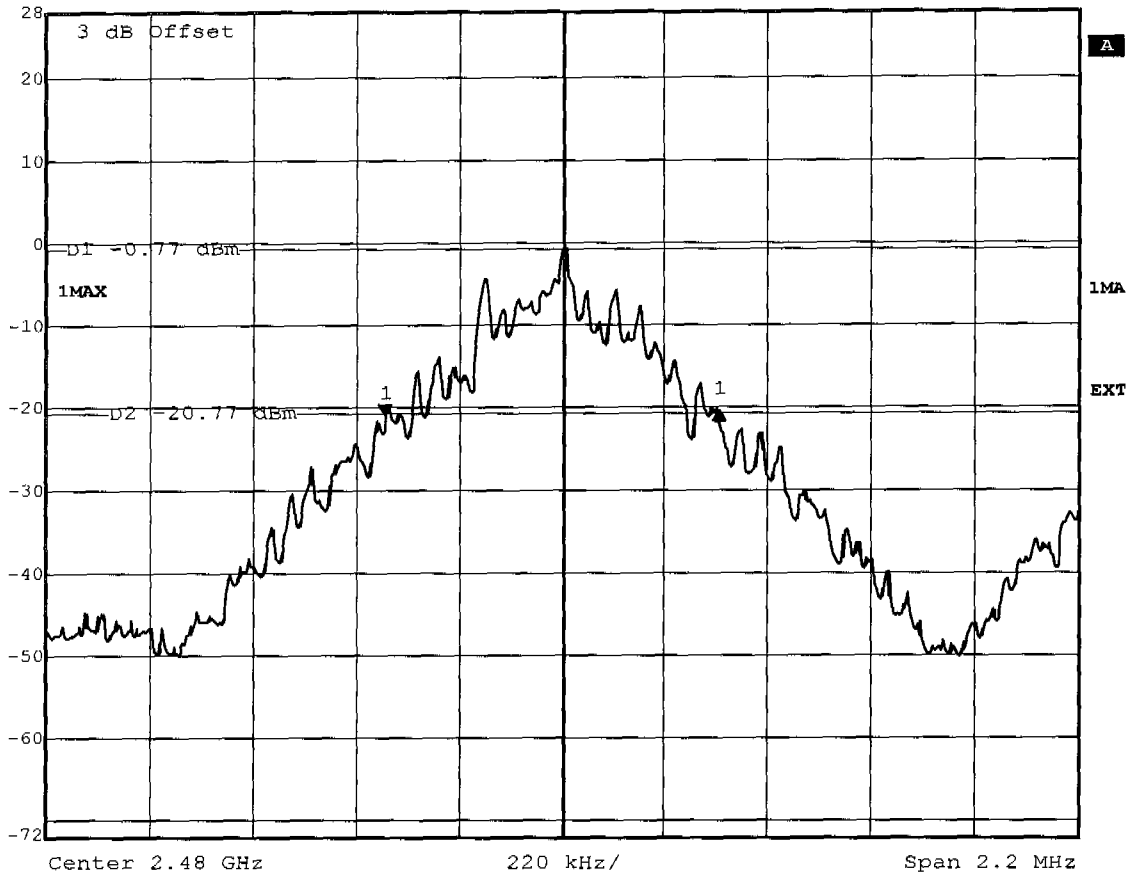
Delta 1 [T1]	RBW	10 kHz	RF Att	50 dB
Ref Lvl	-0.09 dB	VBW	10 kHz	
28 dBm	718.63727455 kHz	SWT	56 ms	Unit dBm



Title: -20dB Bandwidth Ch.: 39  
Comment A: HS820  
Date: 4.MAR.2004 21:14:58



Delta 1 [T1] RBW 10 kHz RF Att 50 dB  
Ref Lvl 0.53 dB VBW 10 kHz  
28 dBm 714.22845691 kHz SWT 56 ms Unit dBm



Title: -20dB Bandwidth Ch.: 78  
Comment A: HS820  
Date: 4.MAR.2004 21:10:56



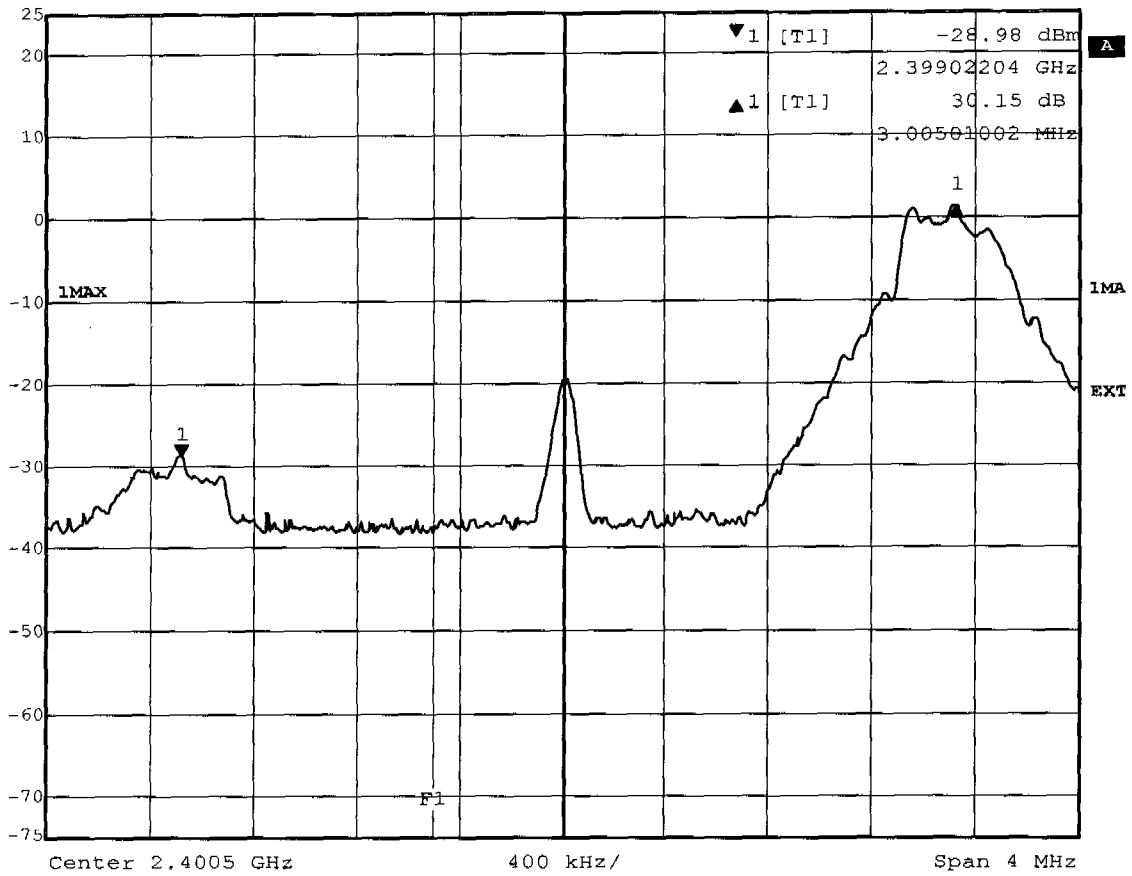
## Appendix I

Band-edge Compliance of RF Emissions





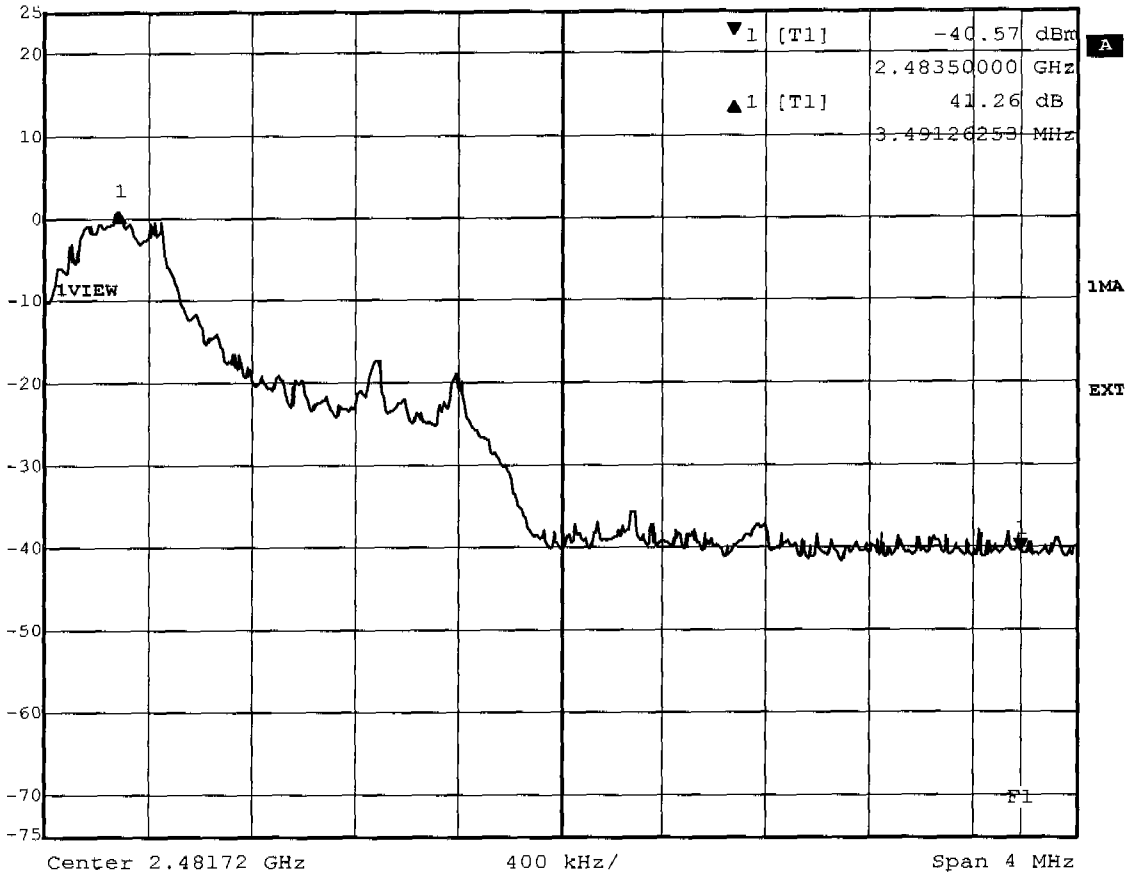
Delta 1 [T1] RBW 50 kHz RF Att 50 dB  
Ref Lvl 30.15 dB VBW 50 kHz  
25 dBm 3.00501002 MHz SWT 5 ms Unit dBm



Title: Band-edge Compliance (conducted, single frequency)  
Comment A: HS820  
Date: 5.MAR.2004 07:51:33



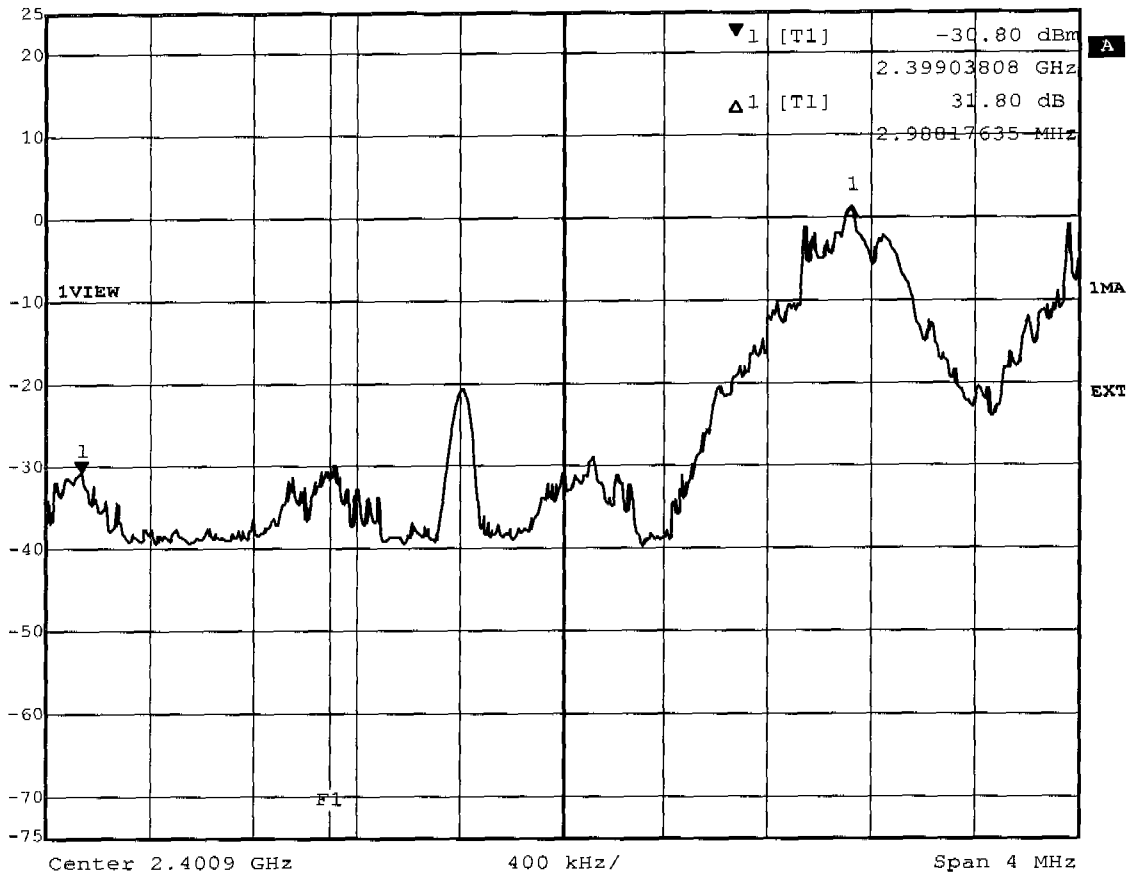
Delta 1 [T1] RBW 50 kHz RF Att 50 dB  
Ref Lvl 41.26 dB VBW 50 kHz  
25 dBm -3.49126253 MHz SWT 5 ms Unit dBm



Title: Band-edge Compliance (conducted, single frequency)  
Comment A: HS820  
Date: 4.MAR.2004 09:50:13



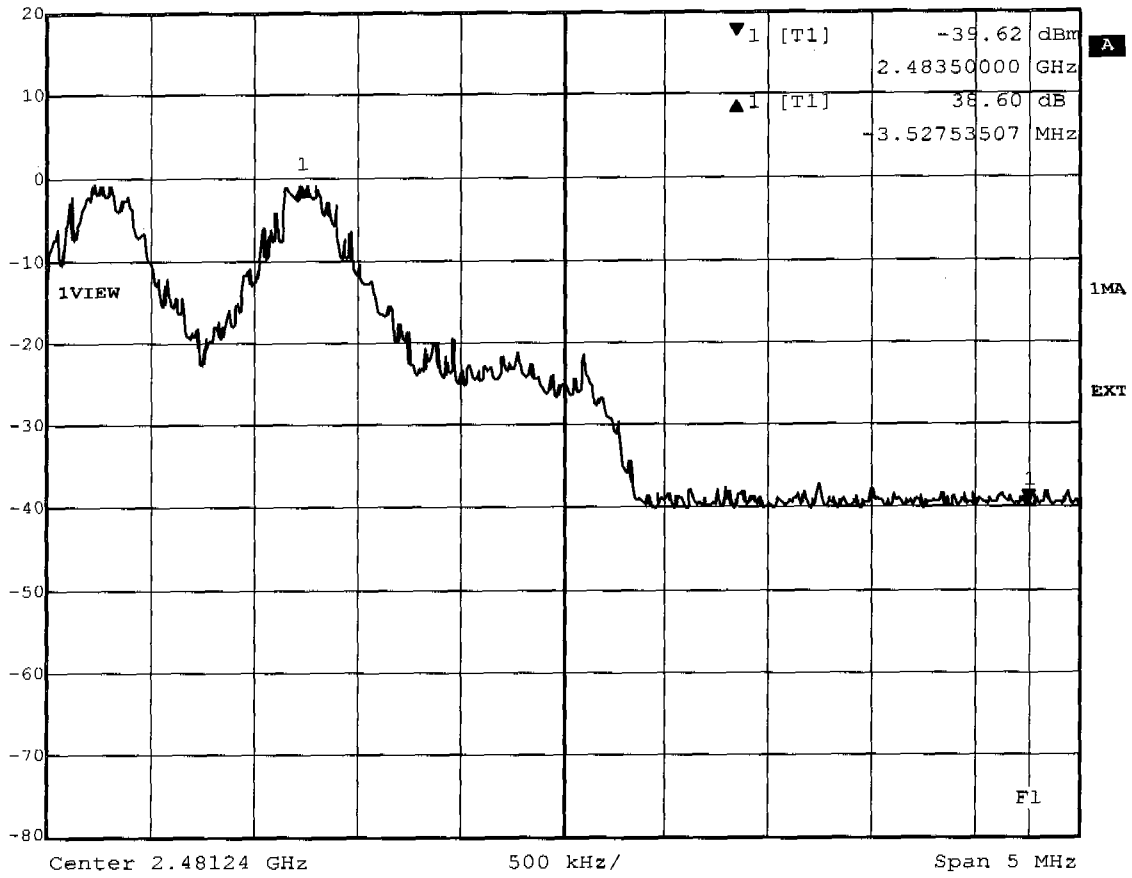
Marker 1 [T1] RBW 50 kHz RF Att 50 dB  
Ref Lvl -30.80 dBm VBW 50 kHz  
25 dBm 2.39903808 GHz SWT 5 ms Unit dBm



Title: Band-edge Compliance (conducted, hopping mode)  
Comment A: HS820  
Date: 5.MAR.2004 08:18:43



Delta 1 [T1] RBW 50 kHz RF Att 50 dB  
Ref Lvl 38.60 dB VBW 50 kHz  
20 dBm -3.52753507 MHz SWT 5 ms Unit dBm



Title: Band-edge Compliance (conducted, hopping mode)  
Comment A: HS820  
Date: 4.MAR.2004 09:59:16

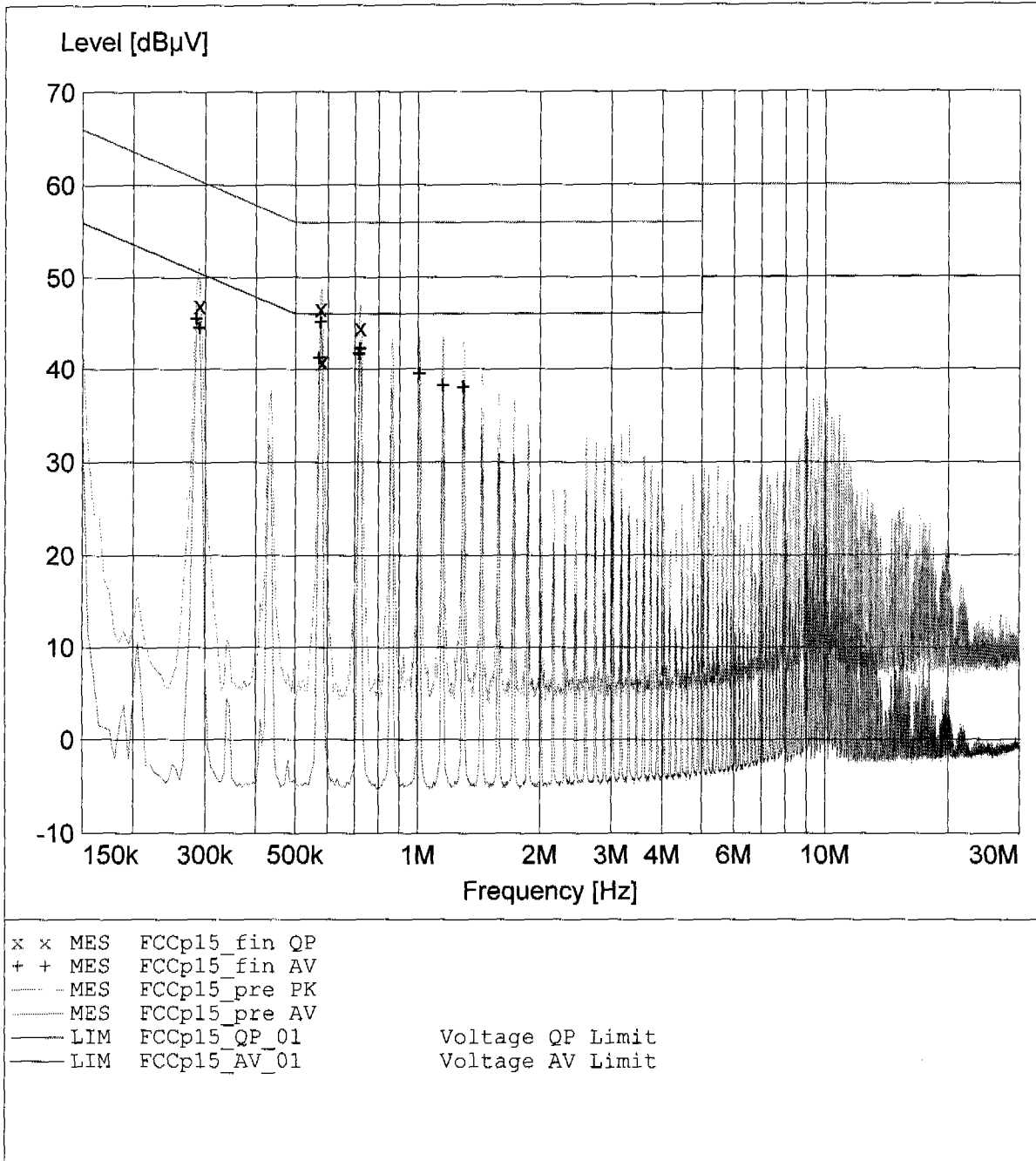


## Appendix J

Conducted Measurement at (AC) Power Line

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

EUT: BLUETOOTH HEADSET HS820  
 Manufacturer: GN NETCOM  
 Operating Condition: Unom: 120 V AC ( AC / DC -adaptor ), Tnom: 23°C  
 Test Site: ETS  
 Operator: Mr. Marquardt  
 Test Specification: V-Network: ESH2-Z5 (L1)  
 Comment: model: HS820 mode: CHARGING  
 charger: PSM5037B



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

EUT: BLUETOOTH HEADSET HS820  
 Manufacturer: GN NETCOM  
 Operating Condition: Unom: 120 V AC ( AC / DC -adaptor ), Tnom: 23°C  
 Test Site: ETS  
 Operator: Mr. Marquardt  
 Test Specification: V-Network: ESH2-Z5 (N)  
 Comment: model: HS820 mode: CHARGING  
 charger: PSM5037B

