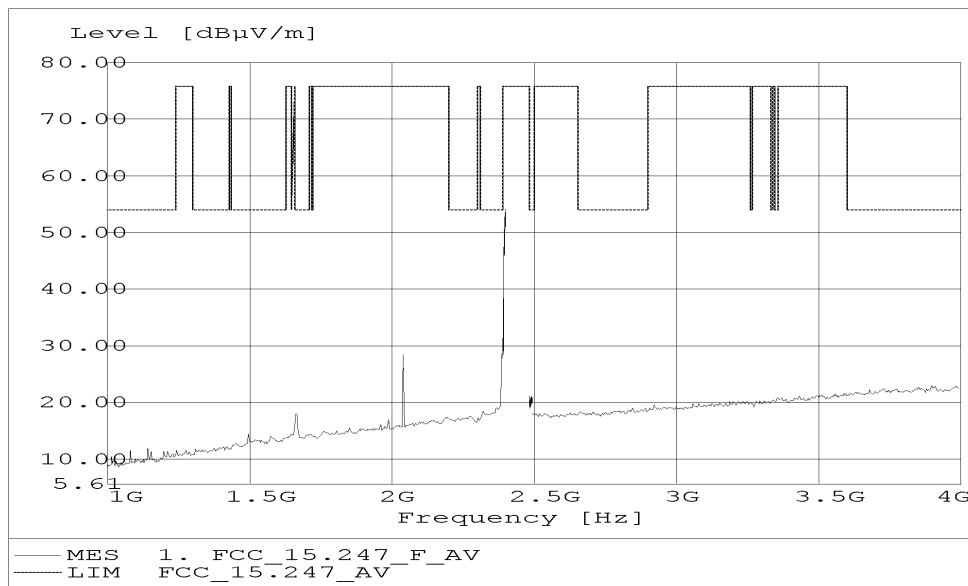


Annex C Diagrams Radiated Emissions Transceiver

Mode : DSSS CW, Channel 1 average measurements

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 2.400GHz, Emax: 54.15dBµV/m, RBW: 1MHz

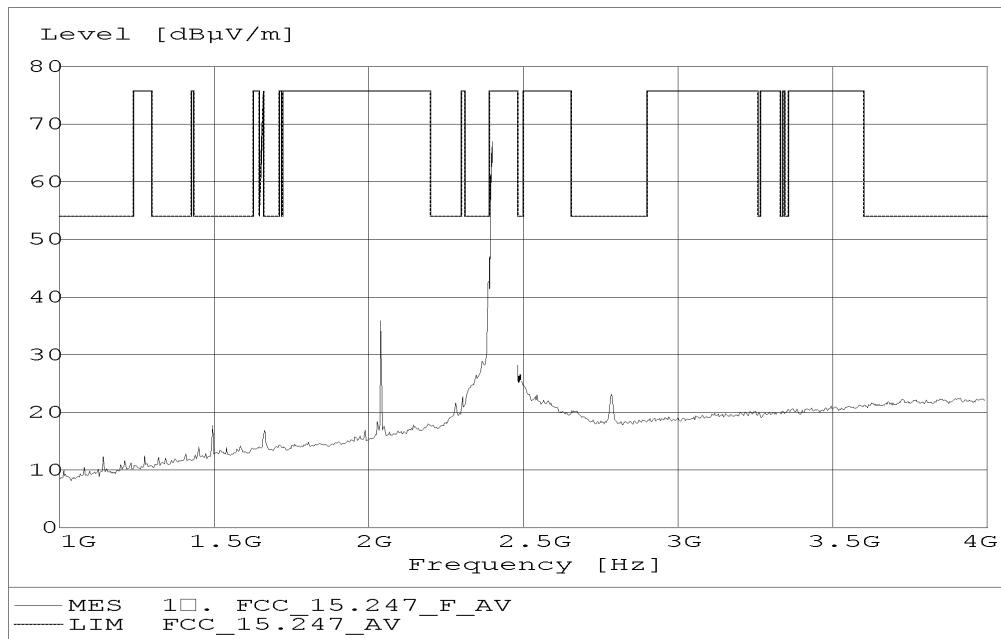


08.03.03 12:08 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 2.400GHz, Emax: 66.96dBuV/m, RBW: 1MHz

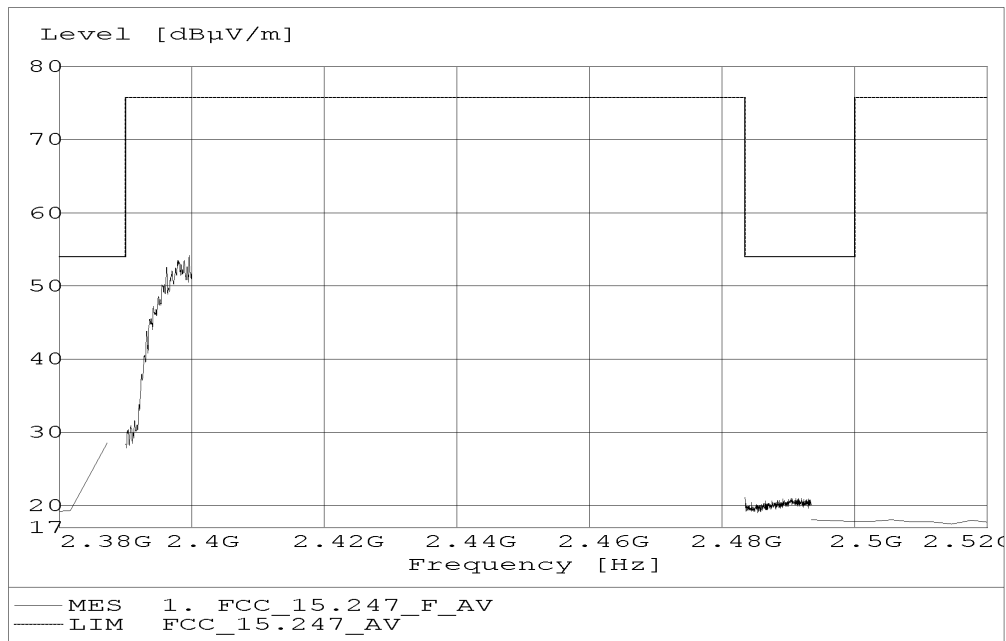


08.03.03 11:56 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 2.400GHz, Emax: 54.15dBµV/m, RBW: 1MHz

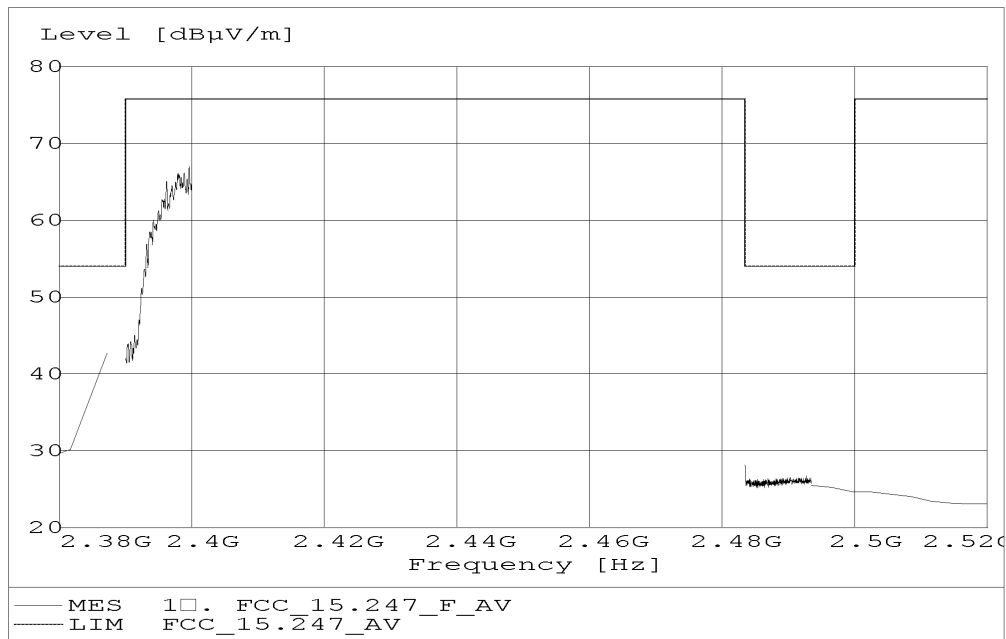


08.03.03 12:09 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 2.400GHz, Emax: 66.96dBµV/m, RBW: 1MHz

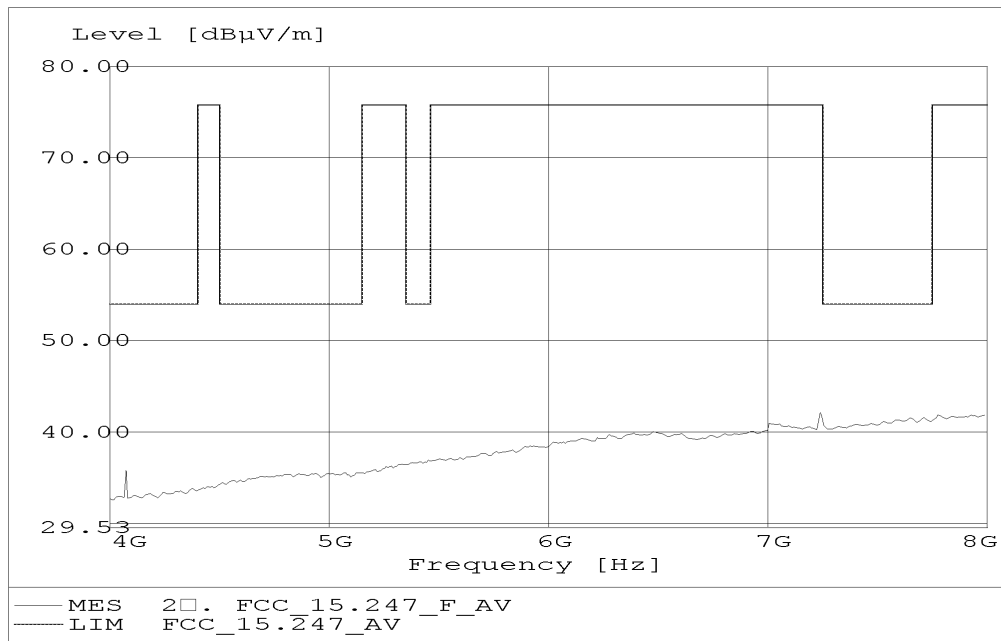


08.03.03 12:02 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 7.238GHz, Emax: 42.12dB μ V/m, RBW: 1MHz



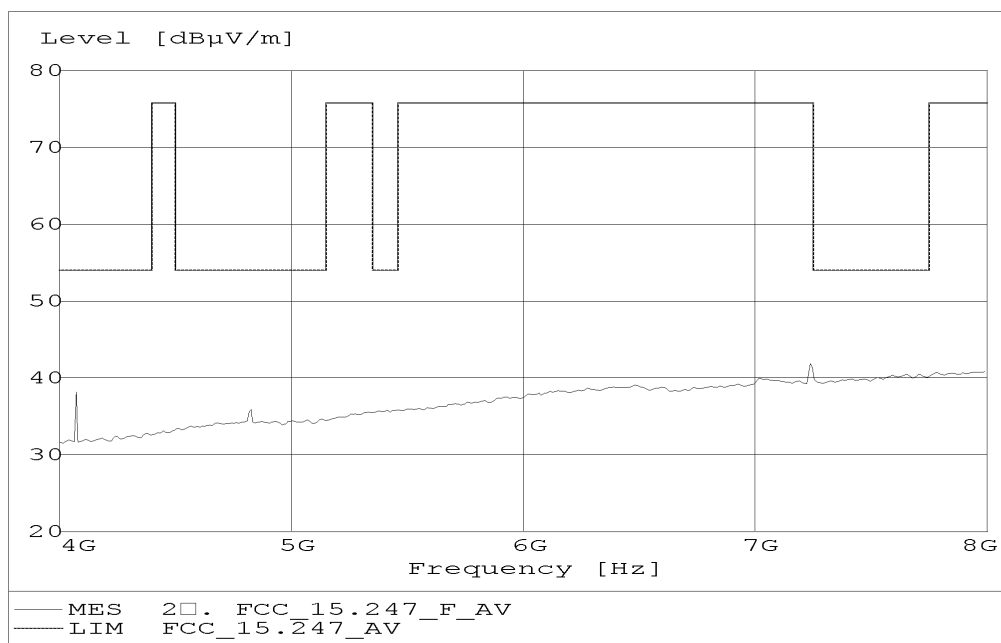
08.03.03 12:15 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

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EUT/ Model:      Firewall/Wireless LAN / Actiontec
Manufacturer :   Sonicwall
                  Ch. 1
Operating Condition:  t nom=23°C  V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification:  according to §15.247 / mode : TX
Comment 1:          Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test:      Freq: 7.238GHz, Emax: 41.89dBµV/m, REW: 1MHz

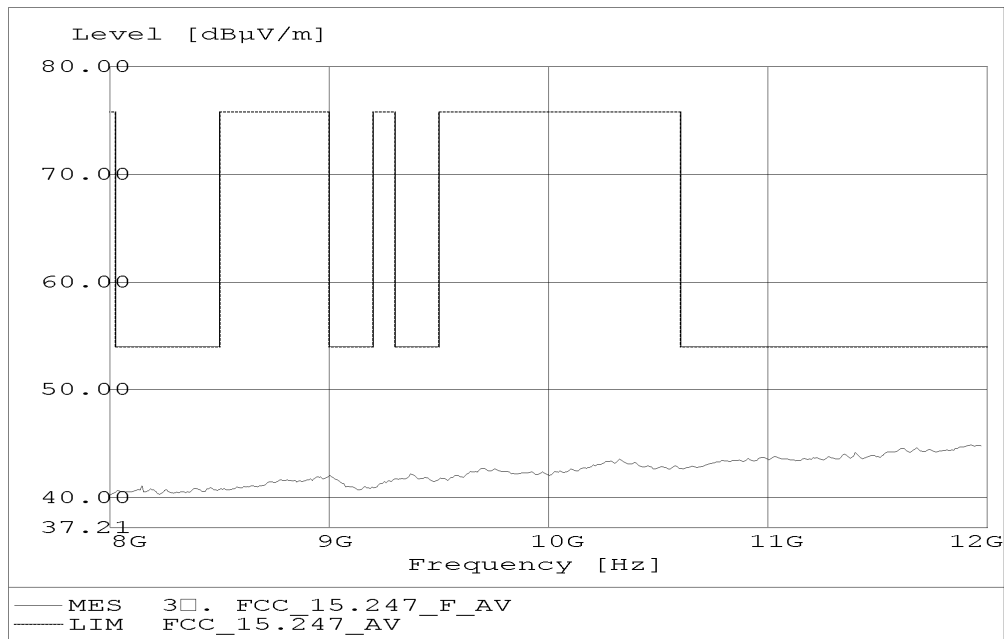
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Annex C page 6

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 11.928GHz, Emax: 44.87dB $\mu\text{V/m}$, RBW: 1MHz

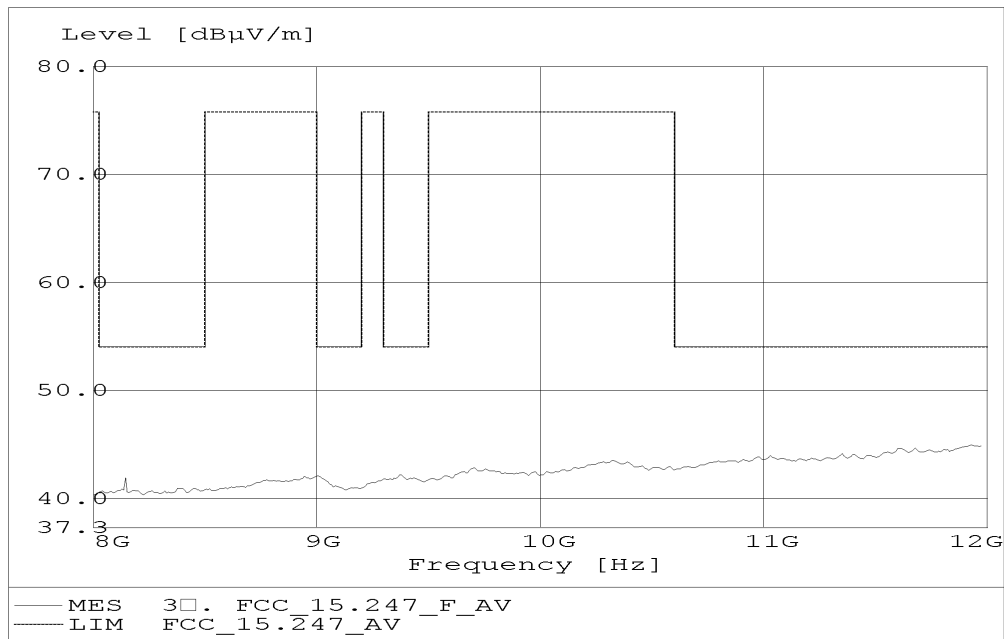


08.03.03 12:42 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 11.928GHz, Emax: 44.96dB $\mu\text{V/m}$, RBW: 1MHz

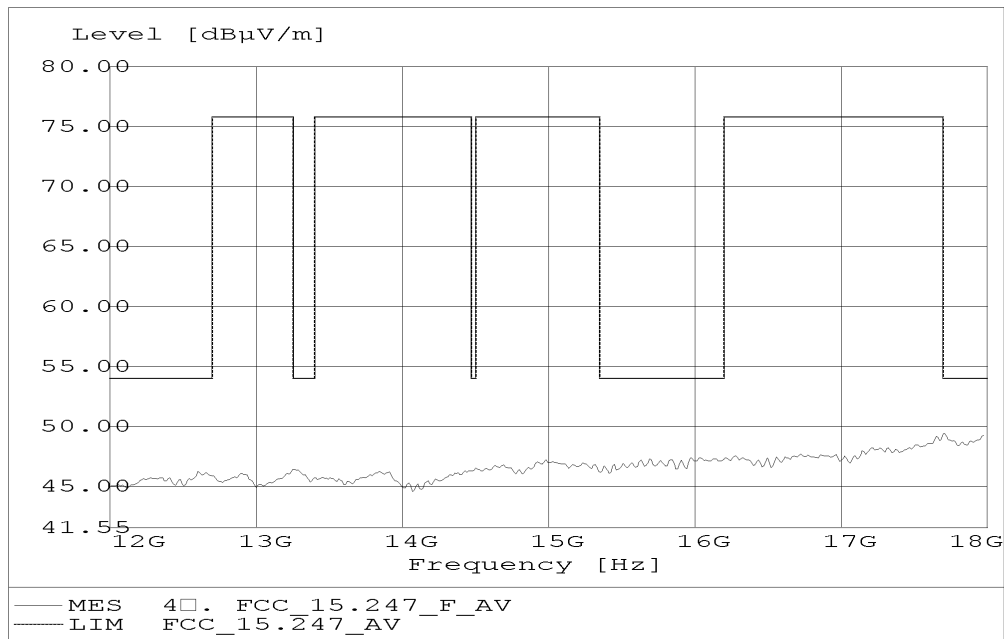


08.03.03 12:38 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 17.699GHz, E_{max} : 49.38dB $\mu\text{V/m}$, RBW: 1MHz

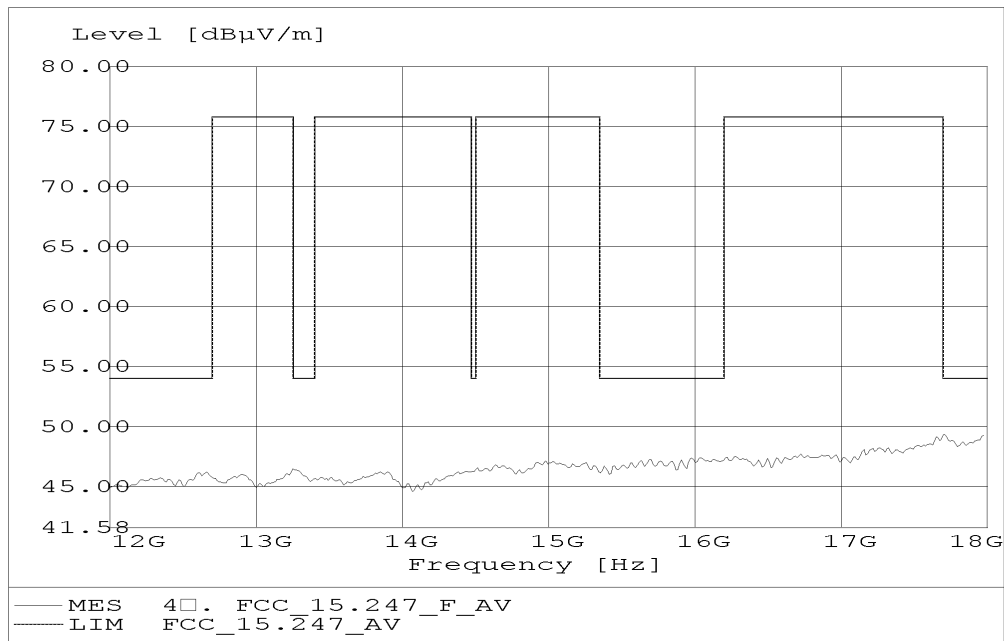


08.03.03 12:40 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 17.711GHz, Emax: 49.34dB μ V/m, RBW: 1MHz

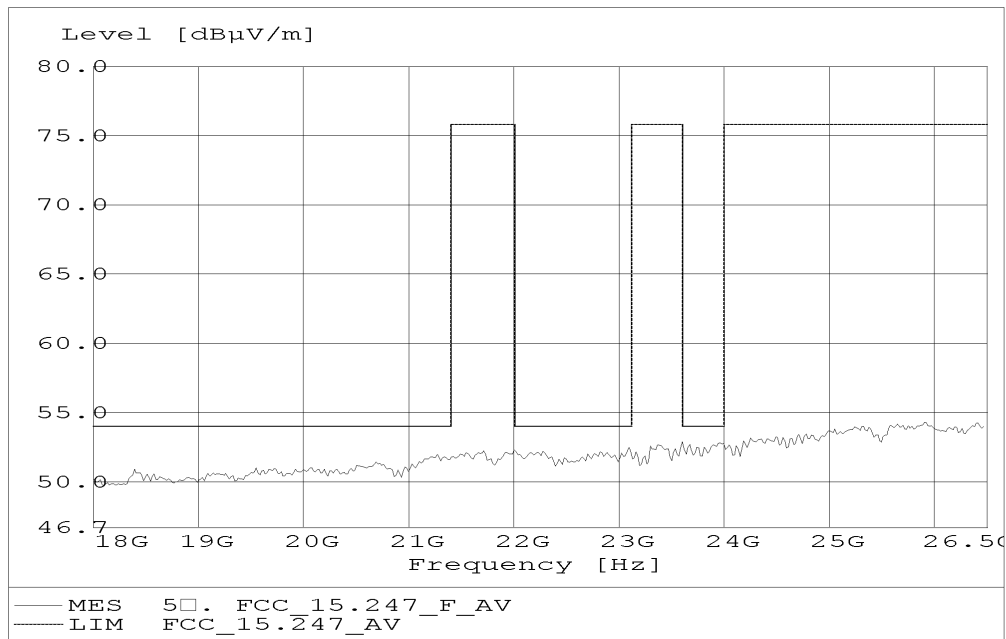


08.03.03 12:39 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 25.904GHz, E_{max} : 54.30dB $\mu\text{V/m}$, RBW: 1MHz

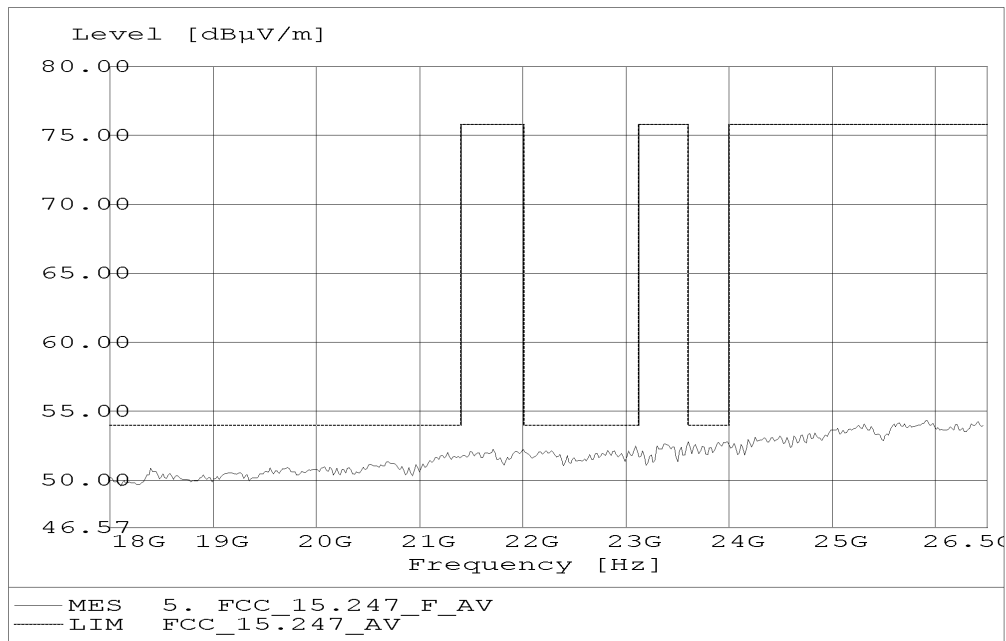


08.03.03 12:44 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 25.921GHz, E_{max} : 54.33dB $\mu\text{V/m}$, RBW: 1MHz

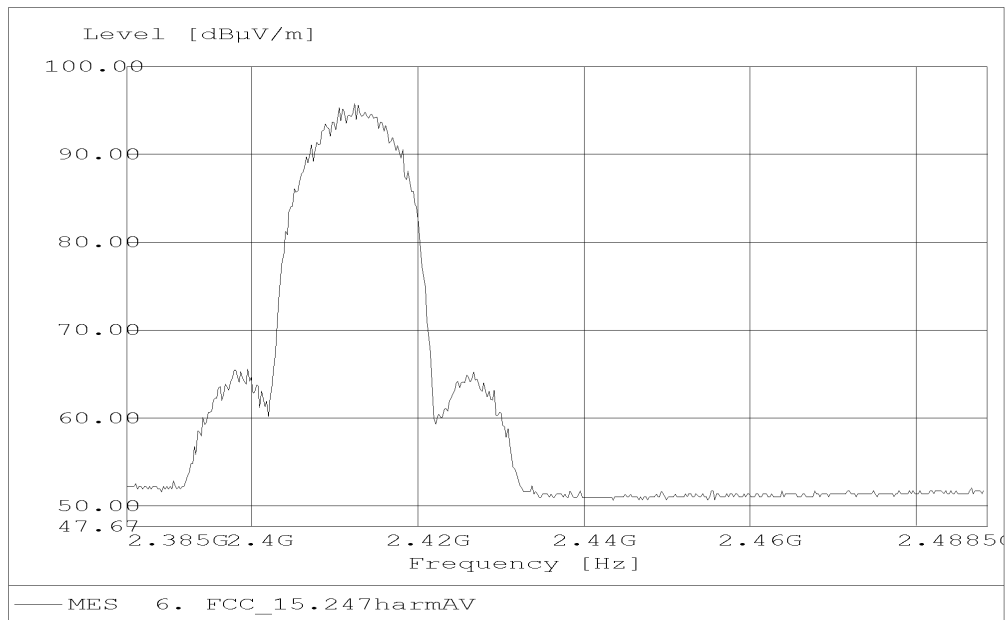


08.03.03 12:46 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Signal Fieldstrength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025
Start of Test: Freq: 2.412GHz, Emax: 95.80dBµV/m, RBW: 1MHz

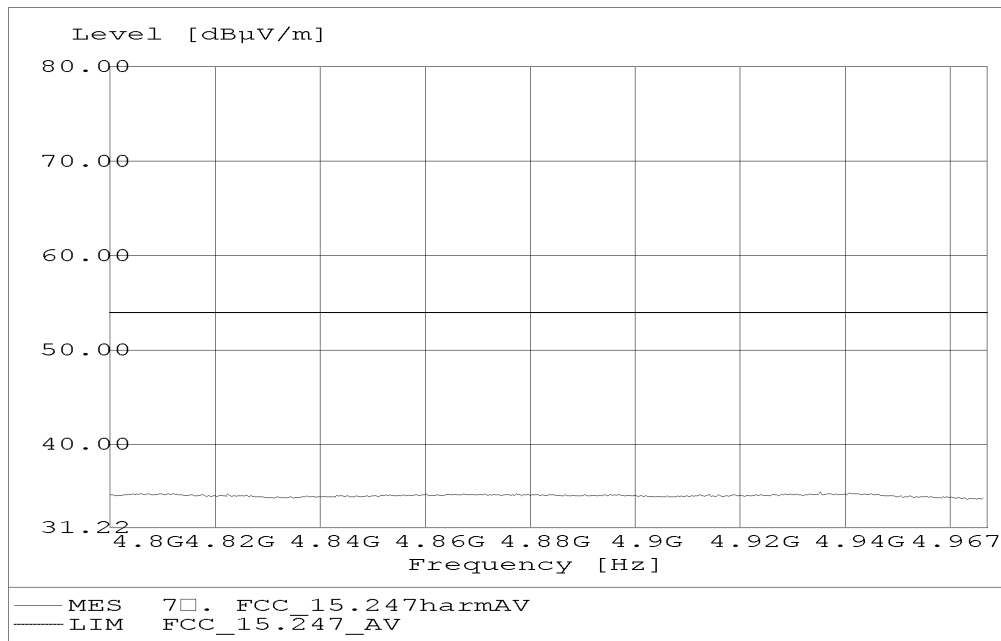


08.03.03 11:29 / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
 Manufacturer : Sonicwall
 Ch. 1
 Operating Condition: t nom=23°C V nom=110V AC
 Test Site / Operator: ETS / Mr. Schultze
 Test Specification: according to §15.247 / mode : TX
 Comment 1: Dist.: 3m, Ant.: HL025, amplif.
 Start of Test: Freq: 4.935GHz, Emax: 34.97dBuV/m, RBW: 1MHz

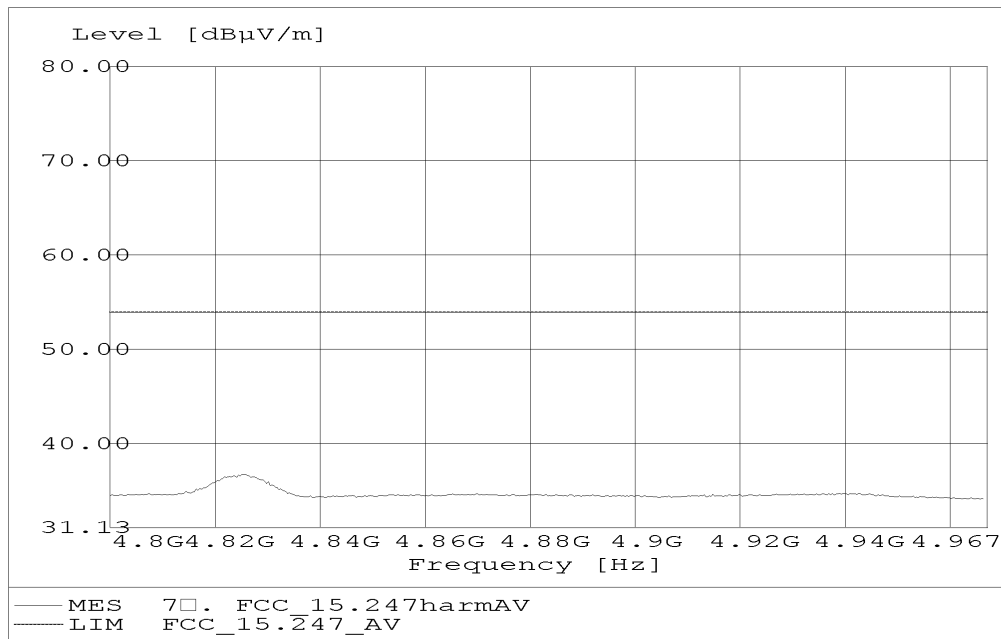


08.03.03 12:27 2nd Harmonic / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 4.826GHz, Emax: 36.80dBµV/m, RBW: 1MHz

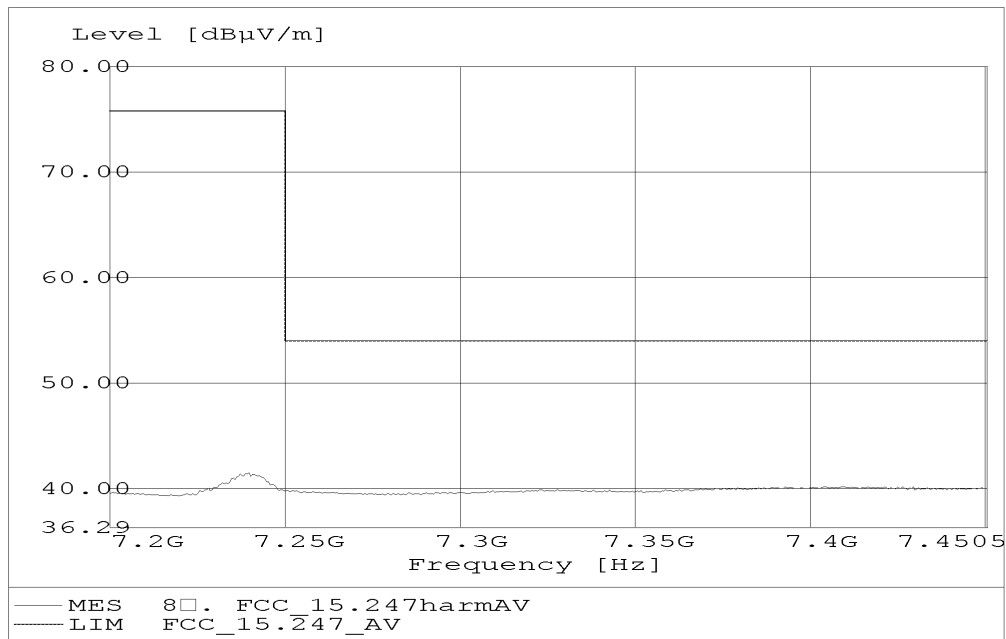


08.03.03 12:34 2nd Harmonic / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 7.240GHz, Emax: 41.50dBµV/m, RBW: 1MHz

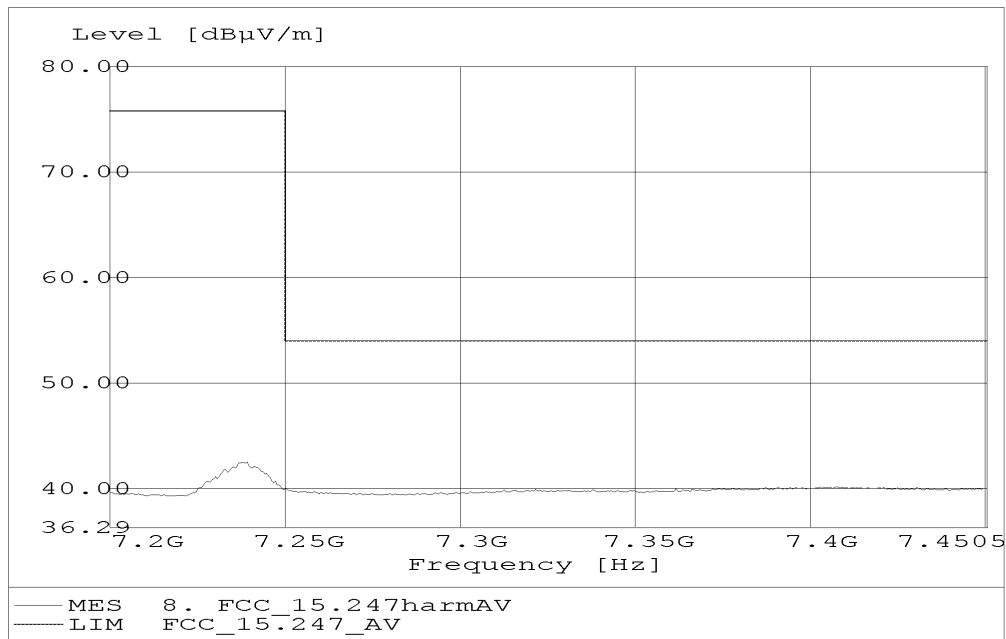


08.03.03 12:29 3rd Harmonic / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 7.239GHz, Emax: 42.51dBuV/m, RBW: 1MHz



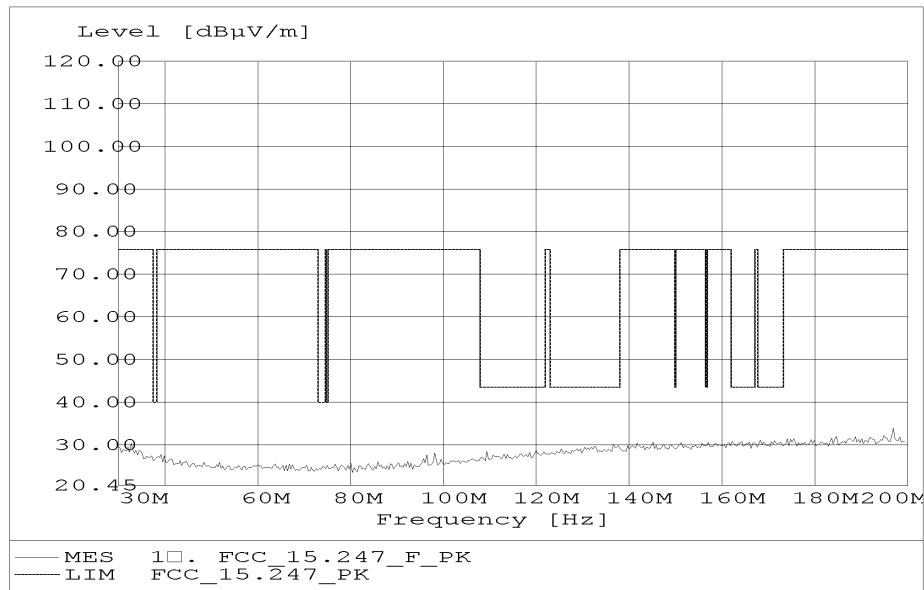
08.03.03 12:32 3rd Harmonic / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Mode : DSSS CW, Channel 1 peak measurements

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116
Start of Test: Freq: 196.934MHz, Emax: 33.98dB $\mu\text{V/m}$, RBW: 100kHz

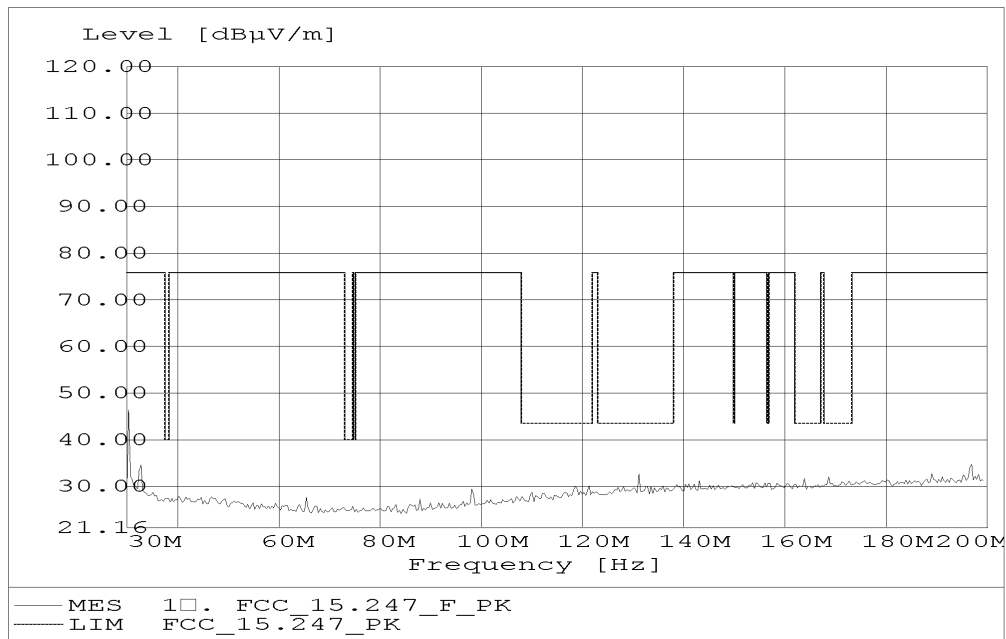


08.03.03 14:01 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116
Start of Test: Freq: 30.341MHz, Emax: 46.33dBµV/m, RBW: 100kHz



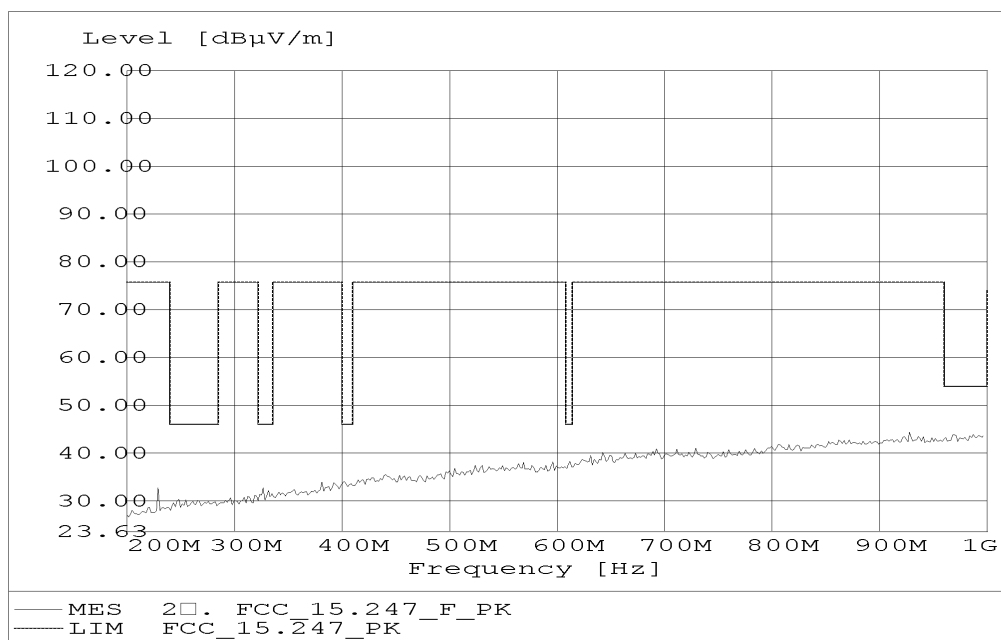
08.03.03 13:59 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

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EUT/ Model:      Firewall/Wireless LAN / Actiontec
Manufacturer :   Sonicwall
                  Ch. 1
Operating Condition:  t nom=23°C  V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification:  according to $15.247 / mode: Tx
Comment 1:          Dist.: 3m, Ant.: HL 223, amplif.
Start of Test:      Freq: 927.856MHz, Emax: 44.41dBµV/m, RBW: 100kHz

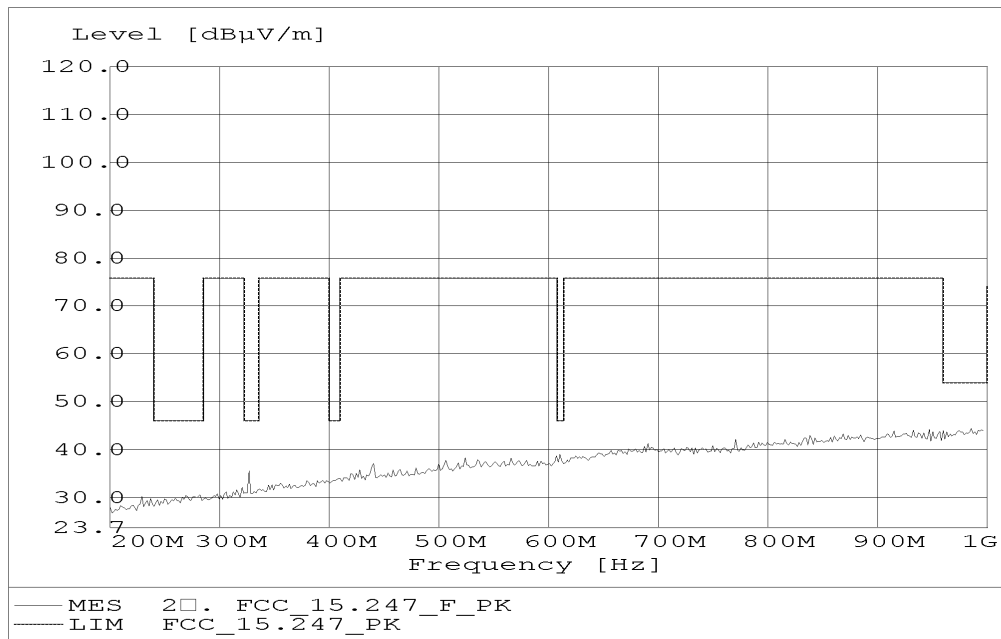
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ELECTRONIC TECHNOLOGY SYSTEMS DR. GENZ GMBH
STORKOWER STR.38c, D-15526 REICHENWALDE B. BERLIN

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Start of Test: Freq: 985.571MHz, E_{max} : 44.41dB $\mu\text{V/m}$, RBW: 100kHz

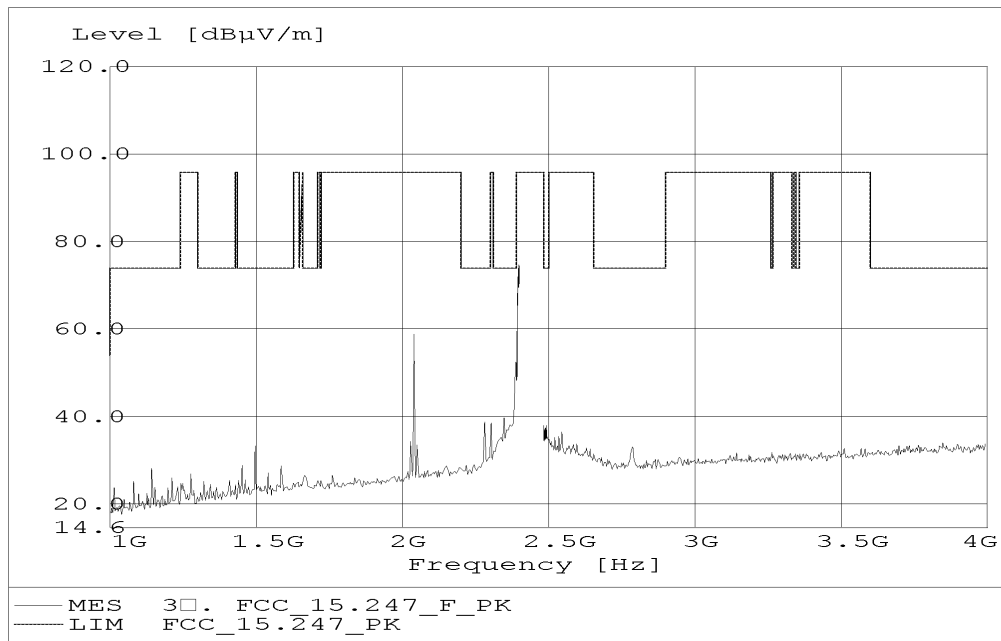


08.03.03 13:52 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 2.398GHz, Emax: 74.81dBµV/m, RBW: 1MHz

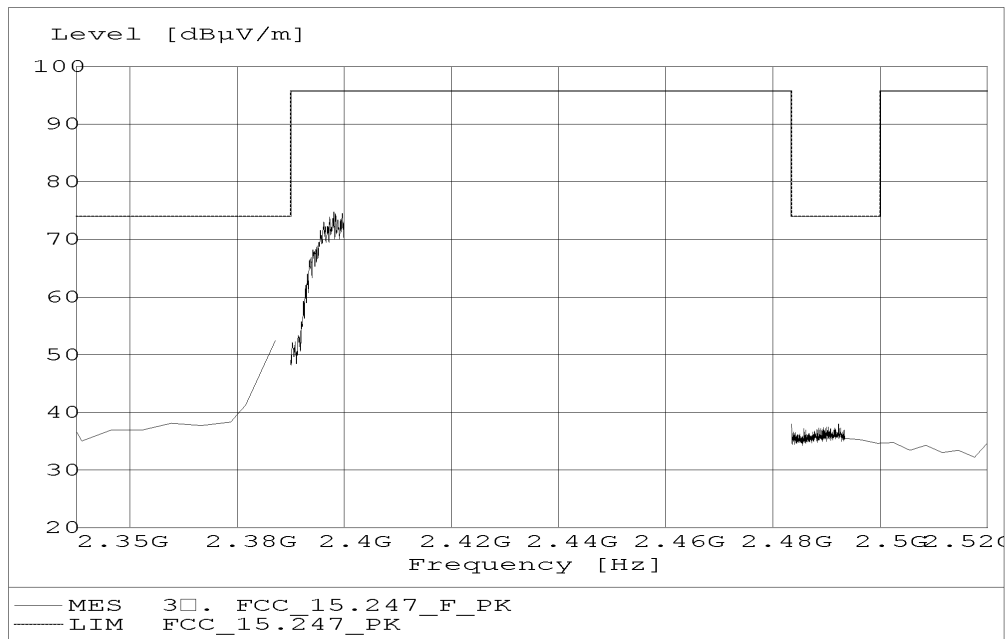


08.03.03 13:34 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 2.398GHz, Emax: 74.81dBuV/m, RBW: 1MHz

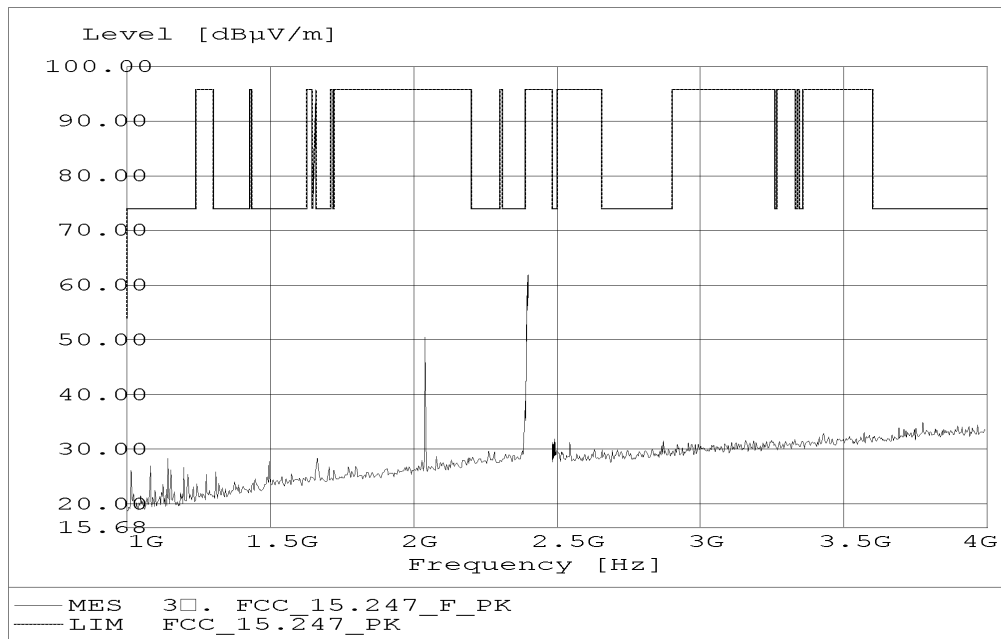


08.03.03 13:36 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 2.400GHz, Emax: 61.90dBµV/m, RBW: 1MHz

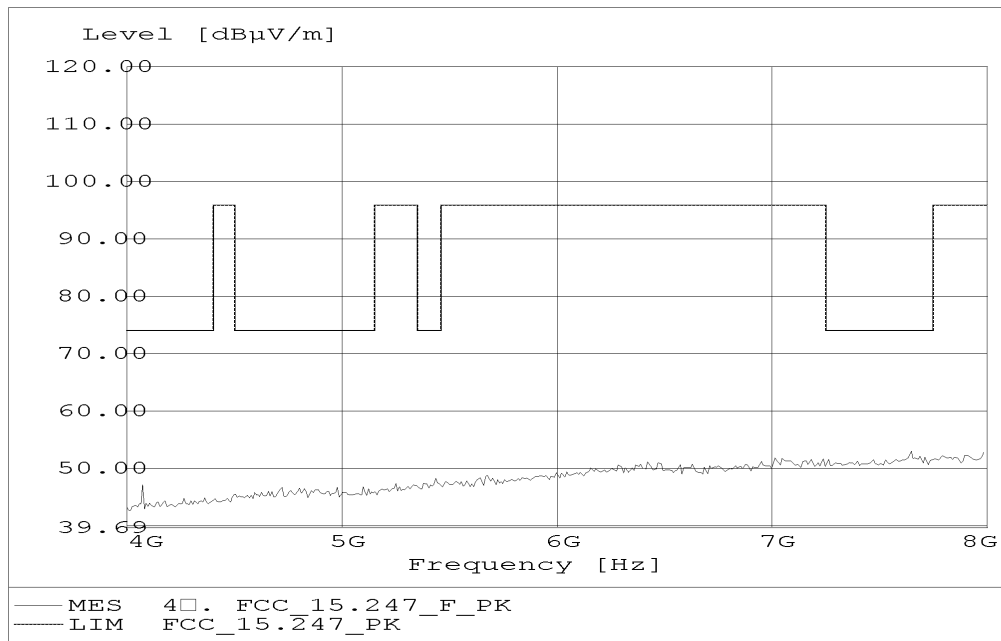


08.03.03 13:25 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 7.647GHz, Emax: 53.02dB $\mu\text{V/m}$, RBW: 1MHz

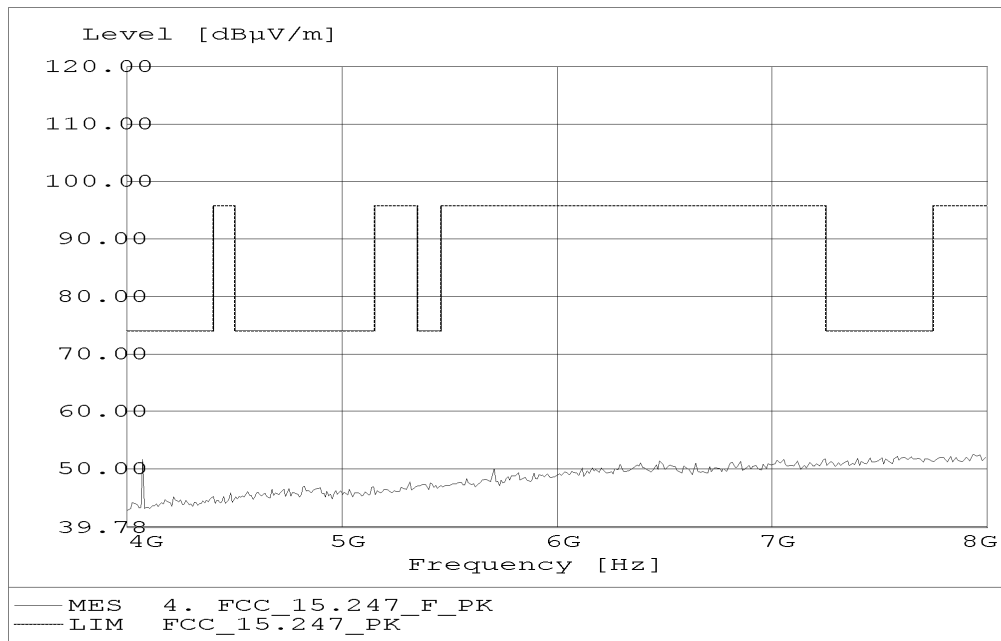


08.03.03 13:12 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 7.936GHz, Emax: 52.54dBµV/m, RBW: 1MHz

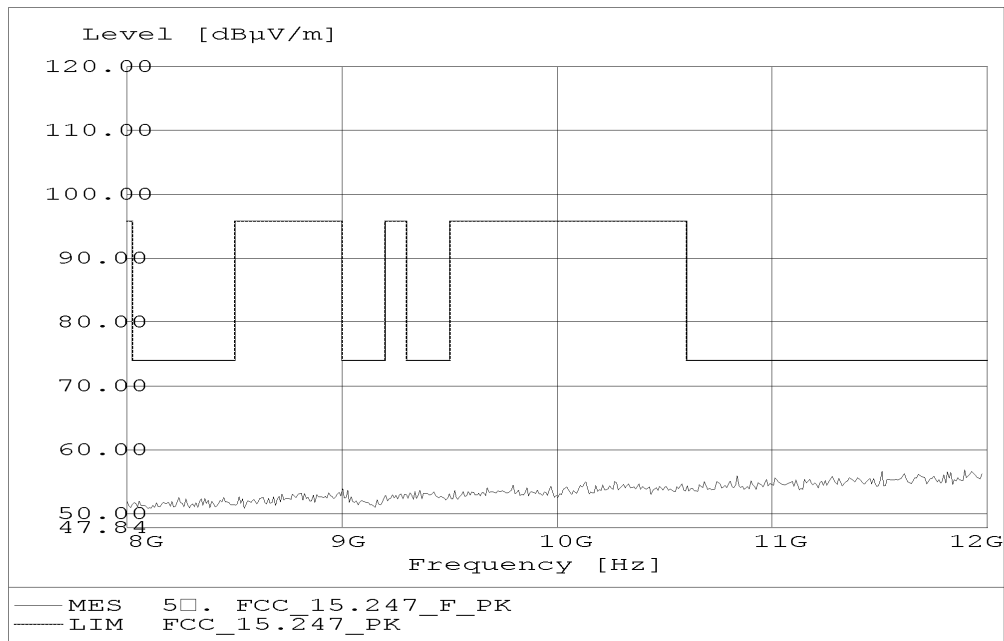


08.03.03 13:03 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 11.896GHz, E_{max} : 56.93dB $\mu\text{V/m}$, RBW: 1MHz

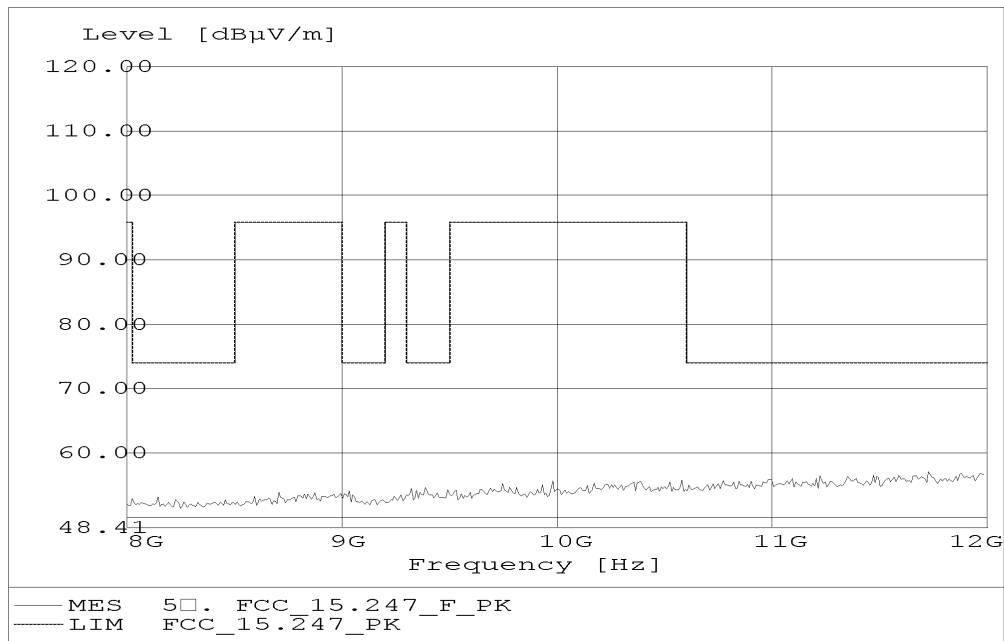


08.03.03 12:55 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 11.727GHz, E_{max} : 57.11dB $\mu\text{V/m}$, RBW: 1MHz

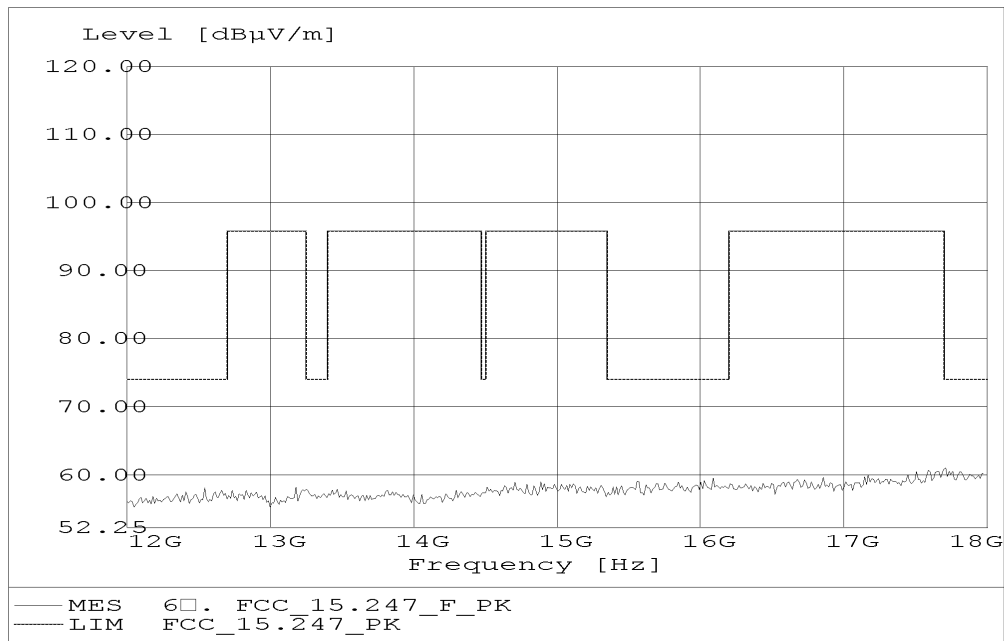


08.03.03 12:59 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 17.711GHz, E_{max} : 61.00dB $\mu\text{V/m}$, RBW: 1MHz

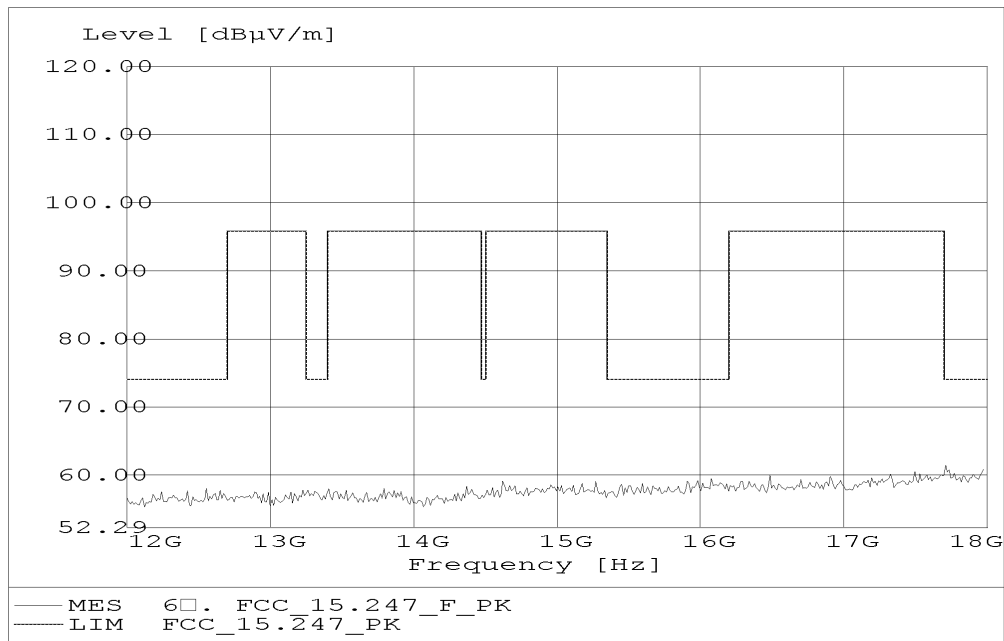


08.03.03 12:54 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 17.711GHz, E_{max} : 61.41dB $\mu\text{V/m}$, RBW: 1MHz

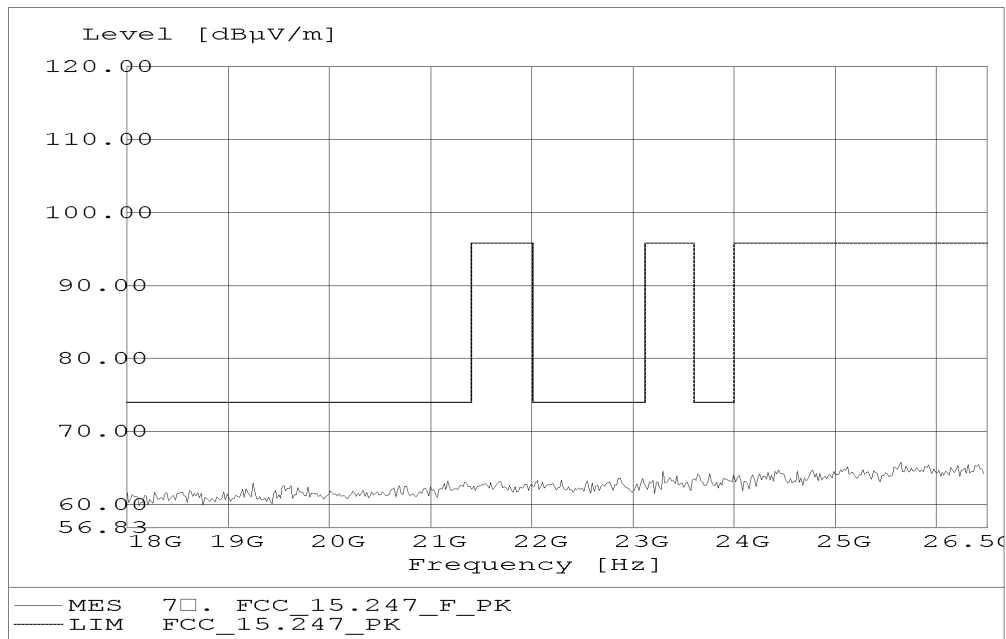


08.03.03 13:01 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 25.648GHz, E_{max} : 65.79dB $\mu\text{V/m}$, RBW: 1MHz

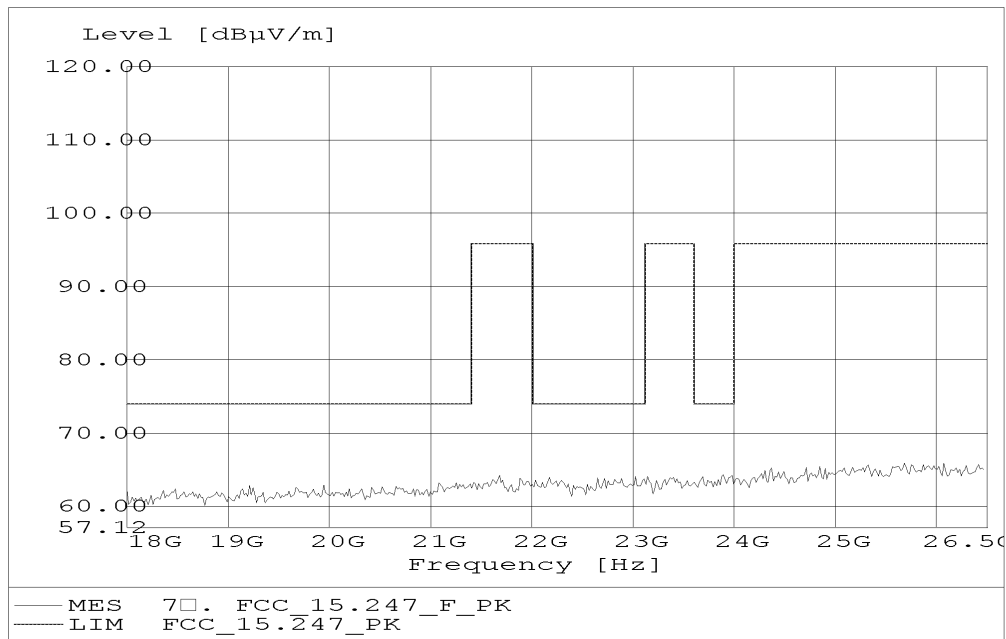


08.03.03 12:52 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 26.074GHz, E_{max} : 65.88dB $\mu\text{V/m}$, RBW: 1MHz

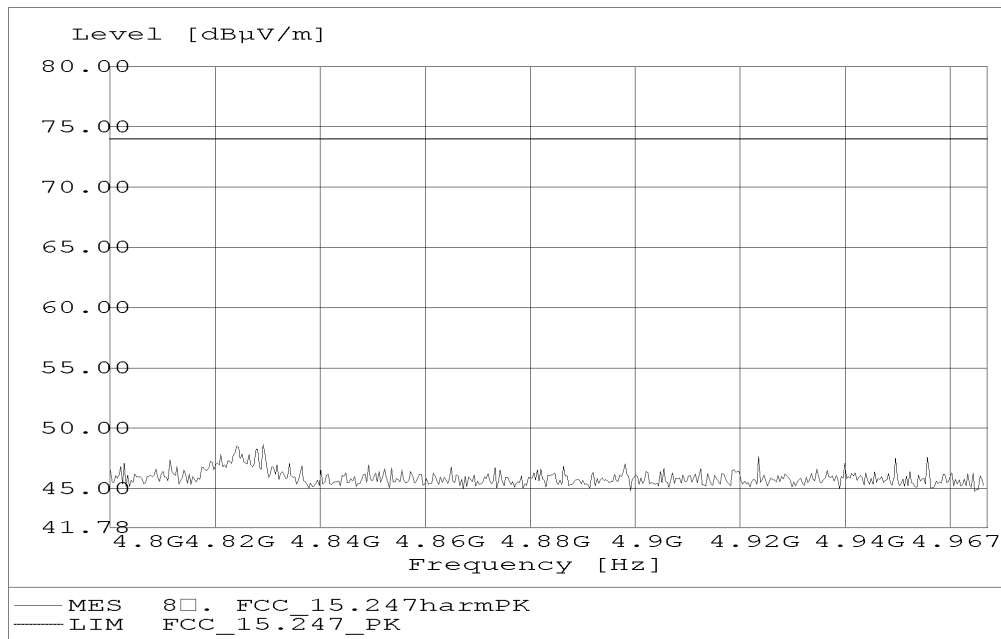


08.03.03 12:50 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
 Manufacturer : Sonicwall
 Ch. 1
 Operating Condition: t nom=23°C V nom=110V AC
 Test Site / Operator: ETS / Mr. Schultze
 Test Specification: according to §15.35, Limit 20 dB up (peak detector)
 Comment 1: Dist.: 3m, Ant.: HL025, amplif.
 Start of Test: Freq: 4.829GHz, Emax: 48.66dBuV/m, RBW: 1MHz

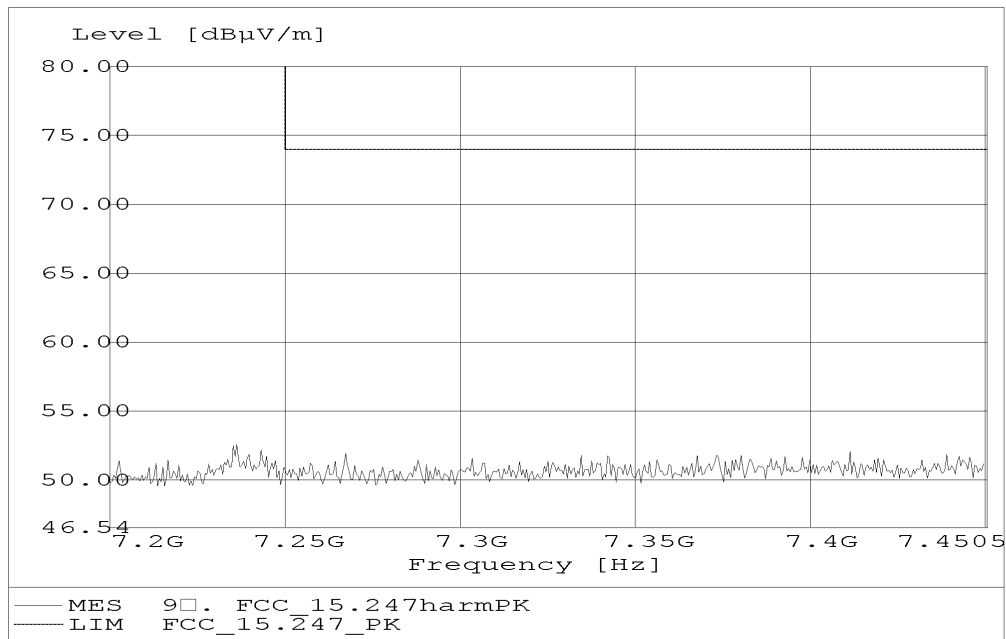


08.03.03 13:05 2nd Harmonic / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 7.236GHz, Emax: 52.56dBµV/m, RBW: 1MHz

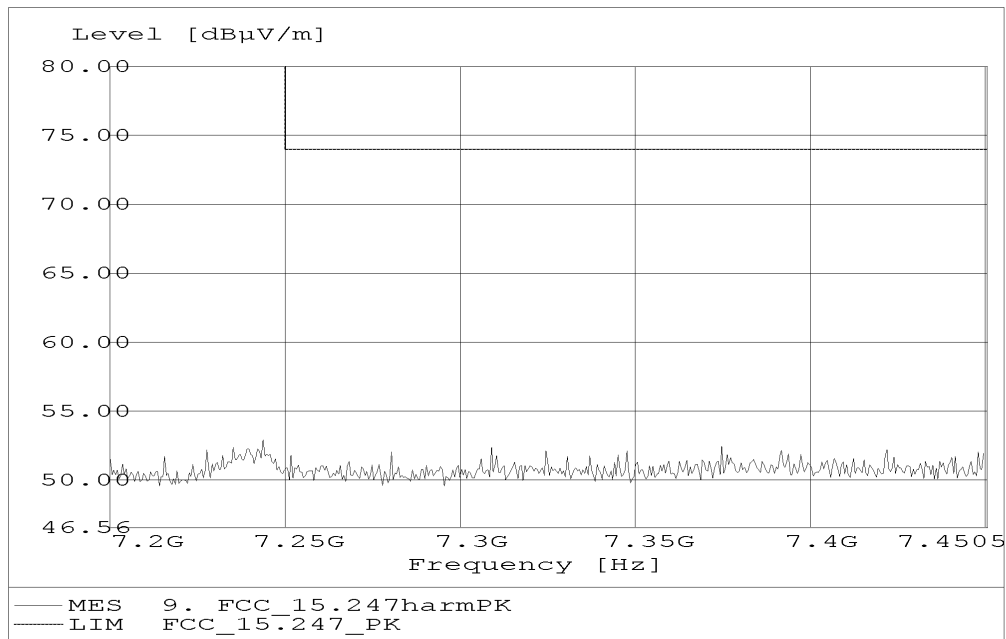


08.03.03 13:09 3rd Harmonic / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 7.244GHz, Emax: 52.93dBuV/m, RBW: 1MHz

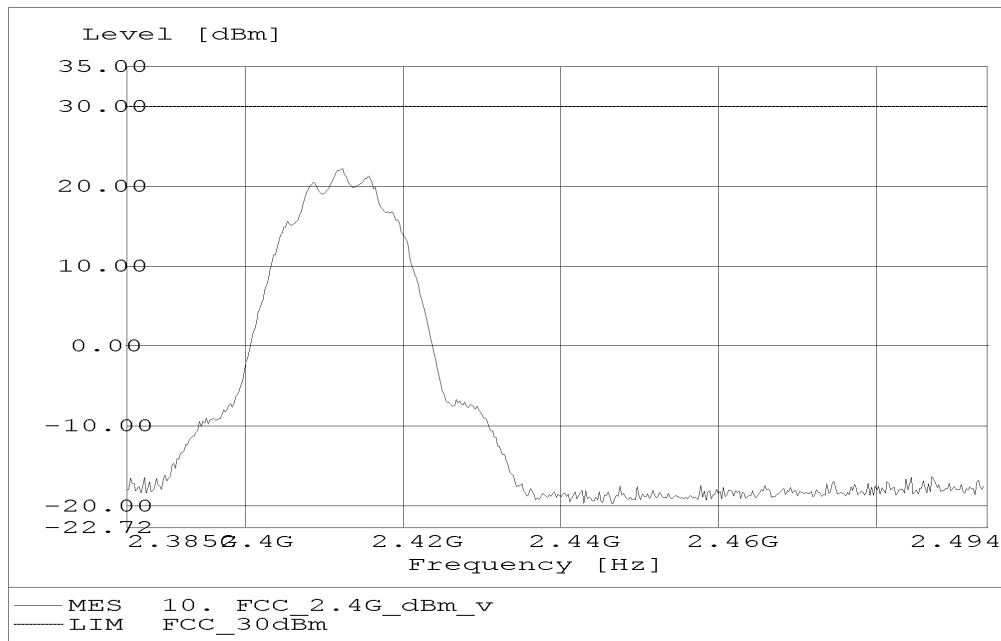


08.03.03 13:07 3rd Harmonic / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

*Radiated Maximum Peak Power
FCC RULES PART 15, SUBPART C*

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL025
Start of Test: Freq: 2.412GHz, Pmax: 22.22dBm, RBW: 5MHz

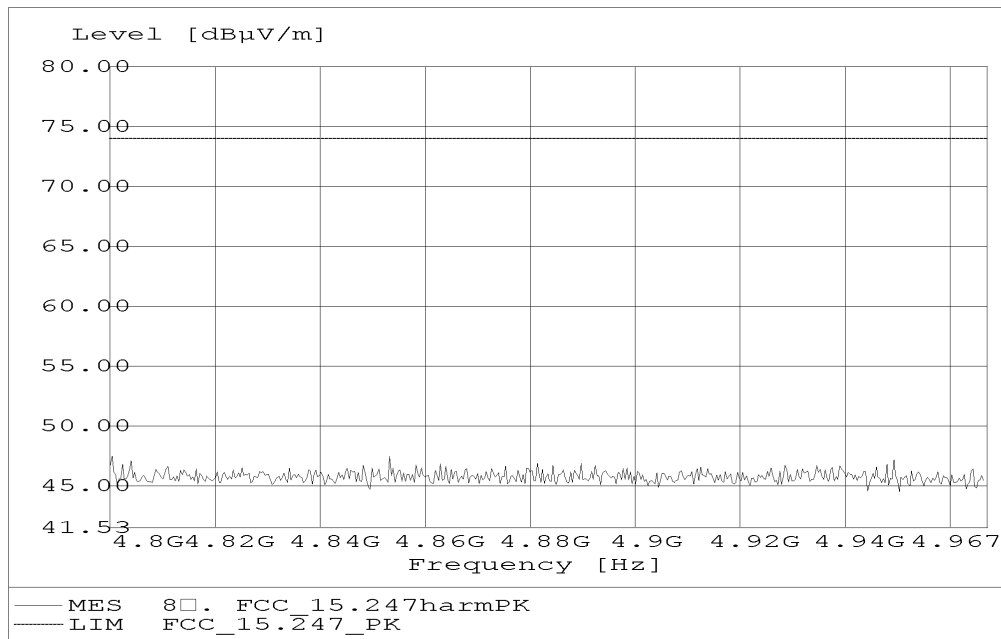


08.03.03 18:52 / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
 Manufacturer : Sonicwall
 Ch. 1
 Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
 Test Site / Operator: ETS / Mr. Schultze
 Test Specification: according to §15.35, Limit 20 dB up (peak detector)
 Comment 1: Dist.: 3m, Ant.: HL025, amplif.
 Start of Test: Freq: 4.800GHz, Emax: 47.49dBuV/m, RBW: 1MHz



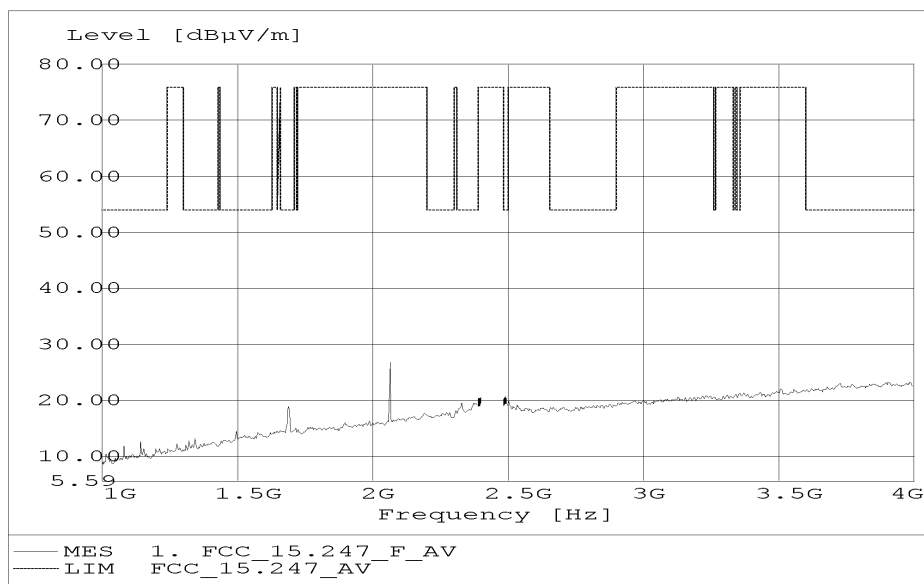
08.03.03 13:11 2nd Harmonic / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Mode : DSSS CW, Channel 6 average measurements

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 2.064GHz, Emax: 26.79dBµV/m, RBW: 1MHz

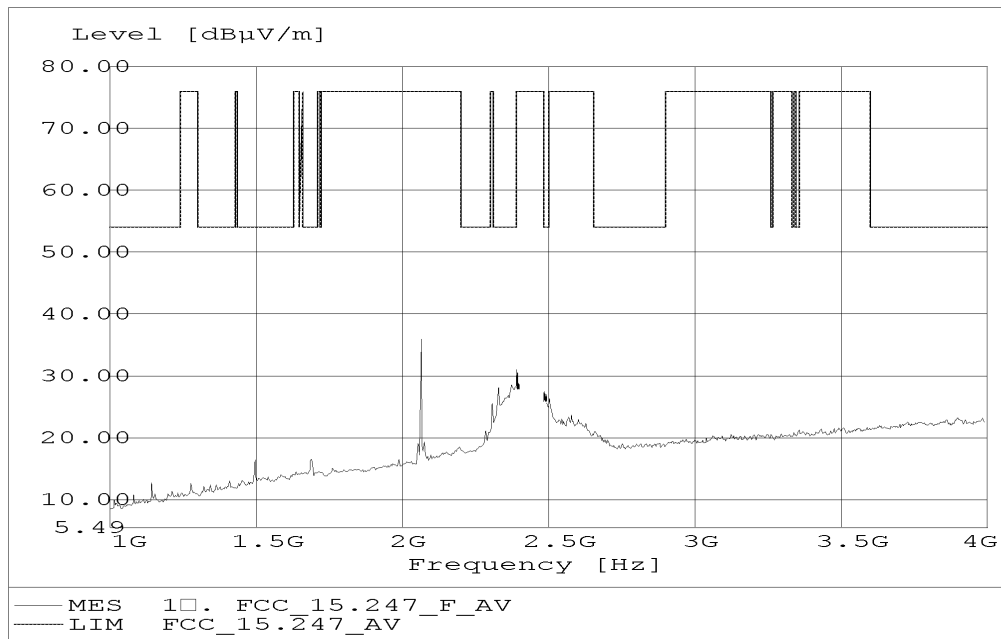


08.03.03 17:05 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 2.064GHz, Emax: 35.89dB $\mu\text{V/m}$, RBW: 1MHz

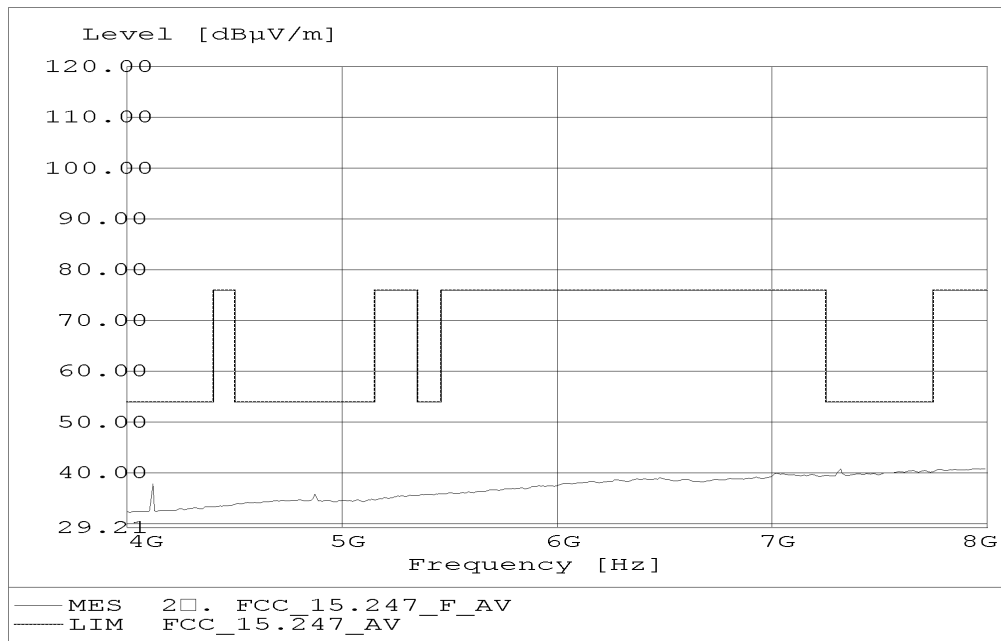


08.03.03 16:58 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 7.992GHz, Emax: 40.80dBµV/m, RBW: 1MHz

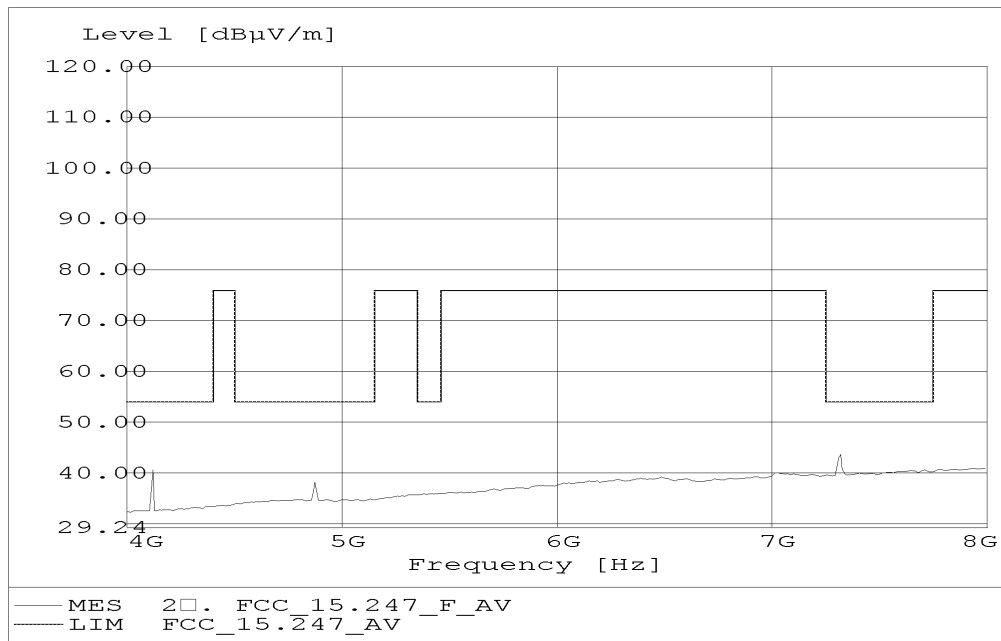


08.03.03 17:22 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 7.319GHz, Emax: 43.65dB $\mu\text{V/m}$, RBW: 1MHz

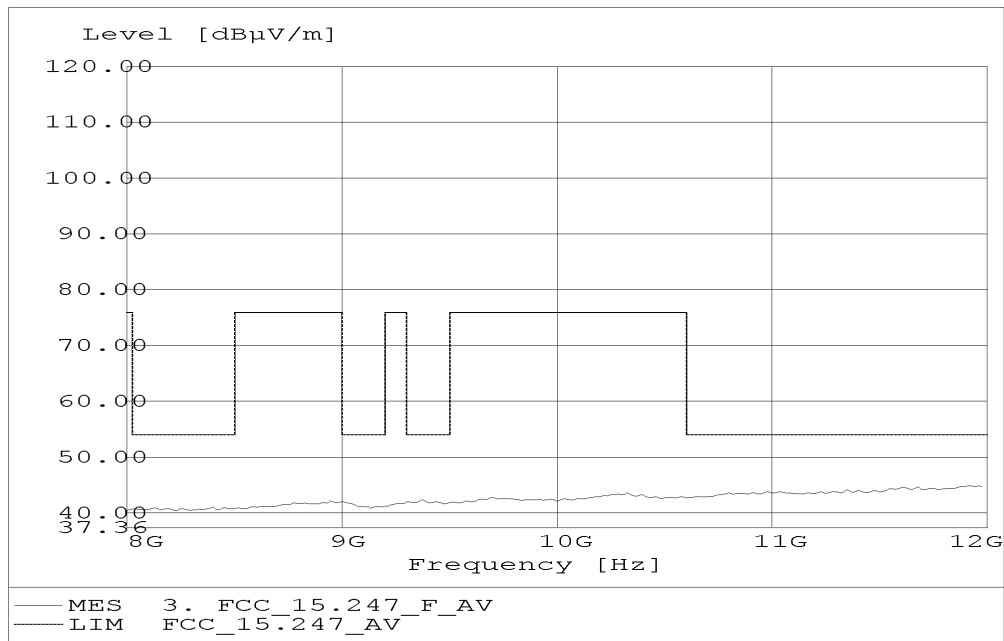


08.03.03 17:20 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 11.920GHz, Emax: 44.84dB $\mu\text{V/m}$, RBW: 1MHz

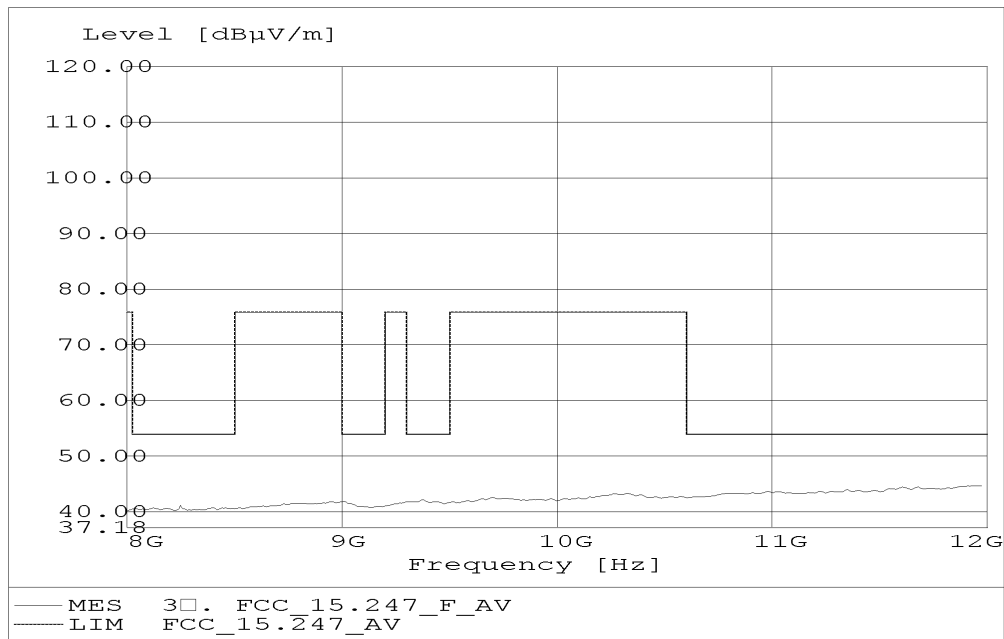


08.03.03 17:26 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 11.952GHz, Emax: 44.71dBµV/m, RBW: 1MHz

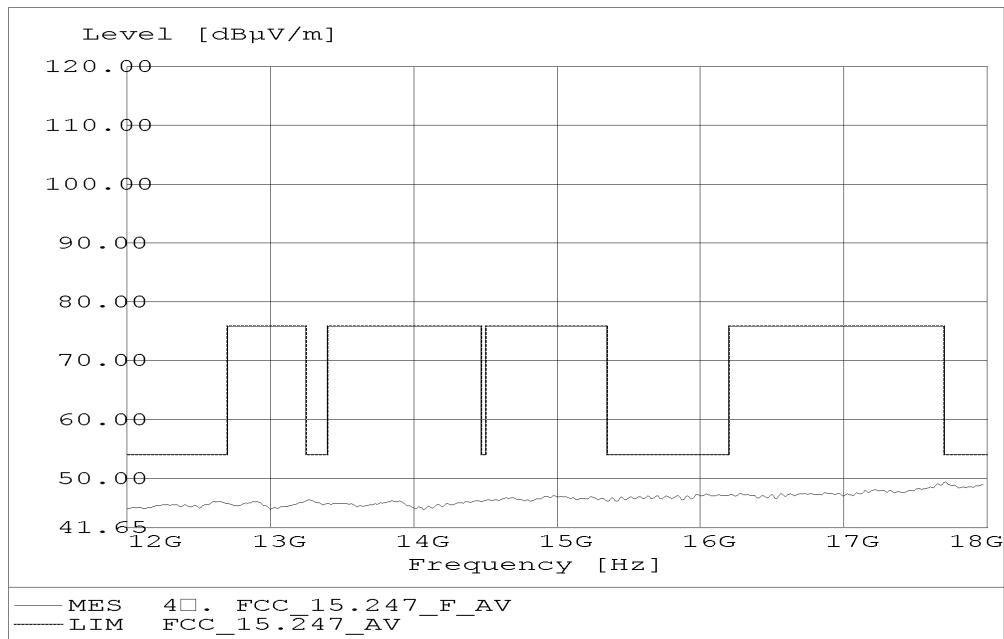


08.03.03 17:32 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 17.711GHz, Emax: 49.40dBµV/m, RBW: 1MHz

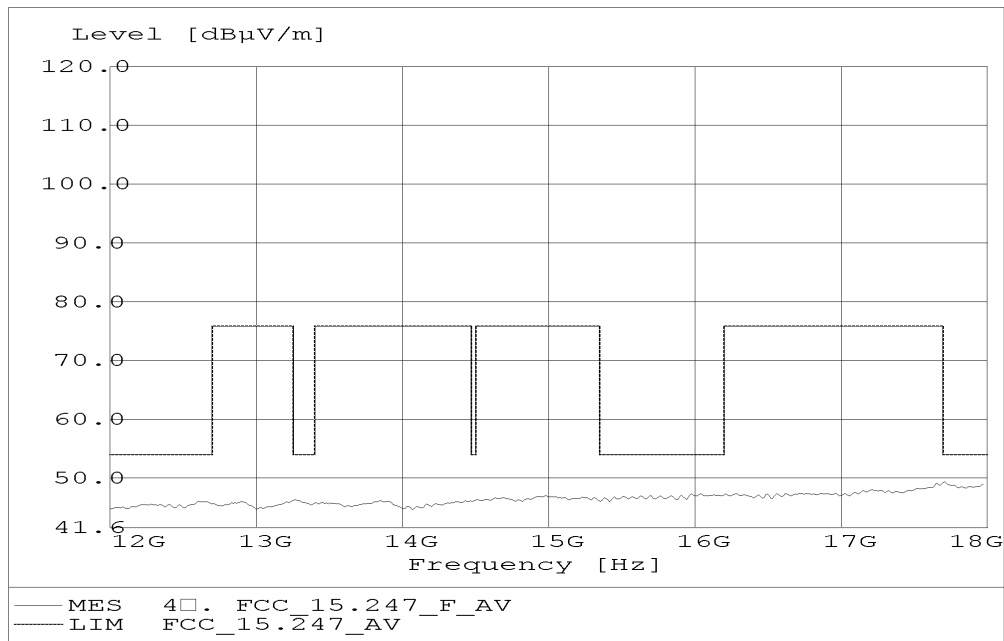


08.03.03 17:28 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 17.711GHz, Emax: 49.44dBμV/m, RBW: 1MHz

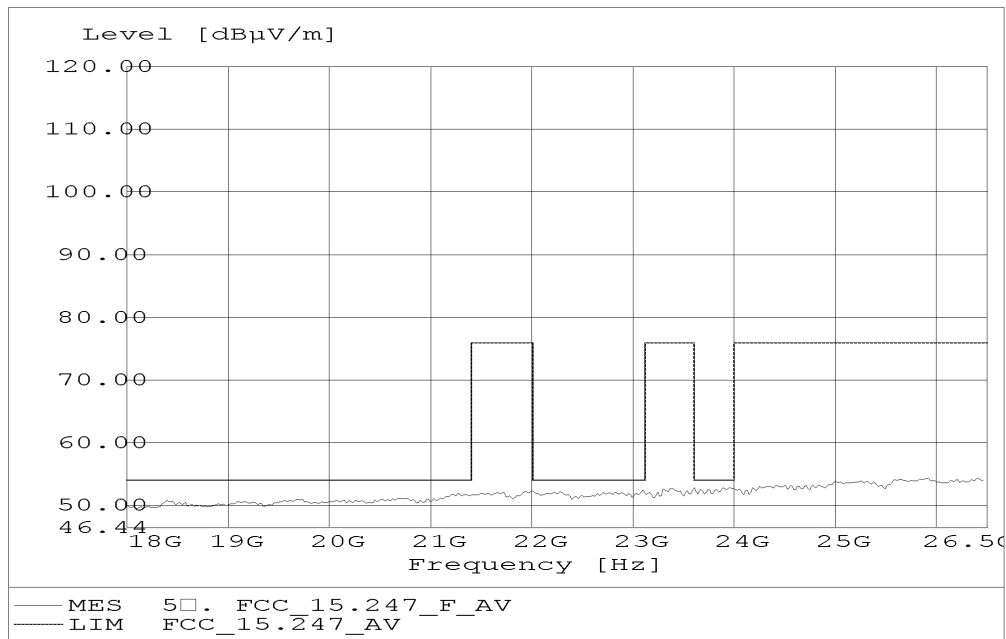


08.03.03 17:30 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 26.398GHz, Emax: 54.36dBµV/m, RBW: 1MHz

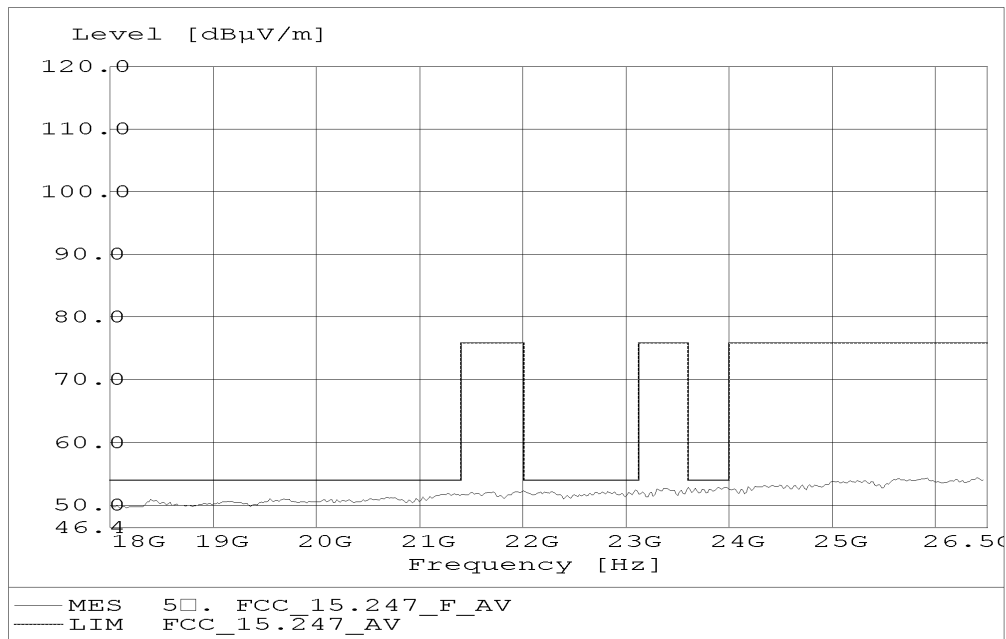


08.03.03 17:37 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 26.415GHz, E_{max} : 54.32dB $\mu\text{V/m}$, RBW: 1MHz

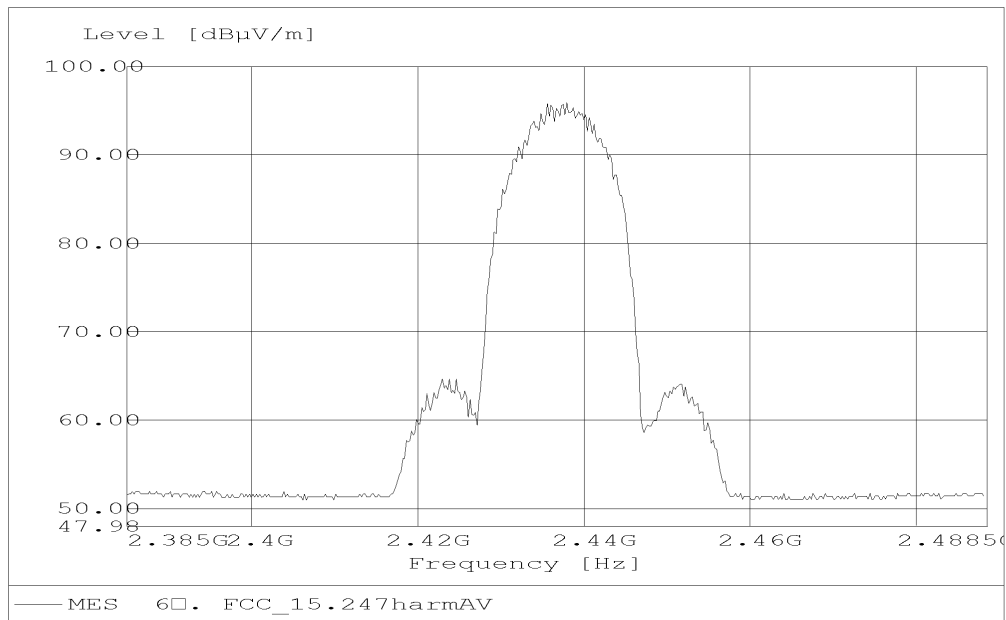


08.03.03 17:35 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Signal Fieldstrength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025
Start of Test: Freq: 2.438GHz, Emax: 95.91dB $\mu\text{V/m}$, RBW: 1MHz

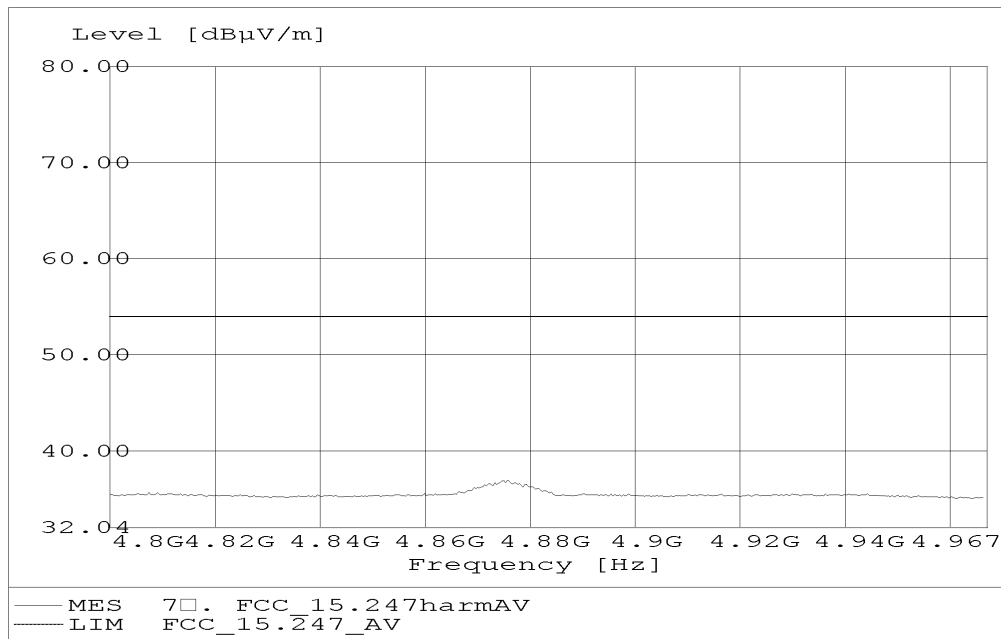


08.03.03 16:48 / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 4.876GHz, Emax: 36.97dBuV/m, RBW: 1MHz

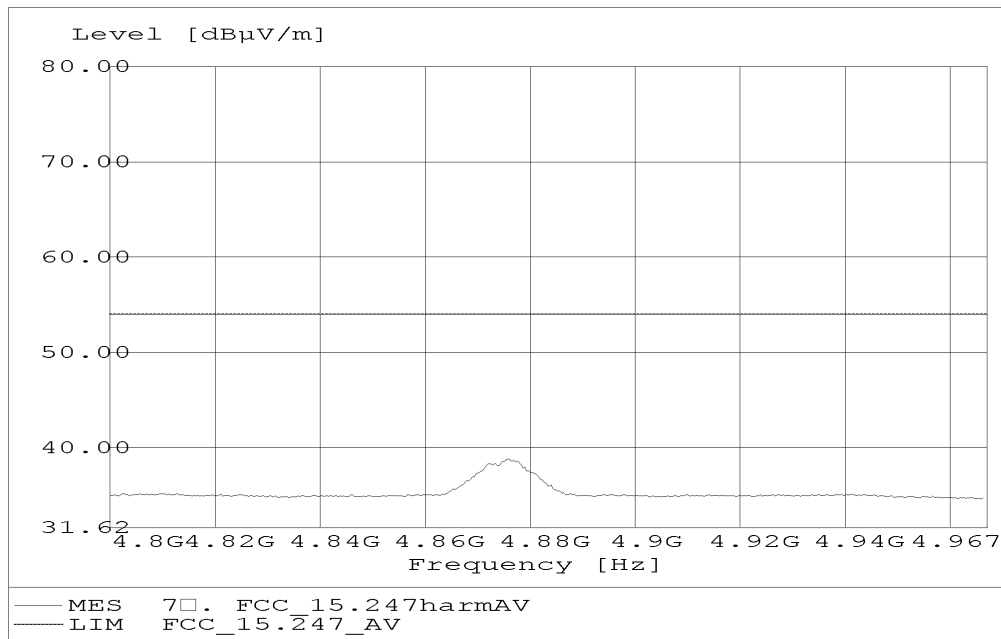


08.03.03 17:11 2nd Harmonic / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 4.876GHz, Emax: 38.82dBµV/m, RBW: 1MHz

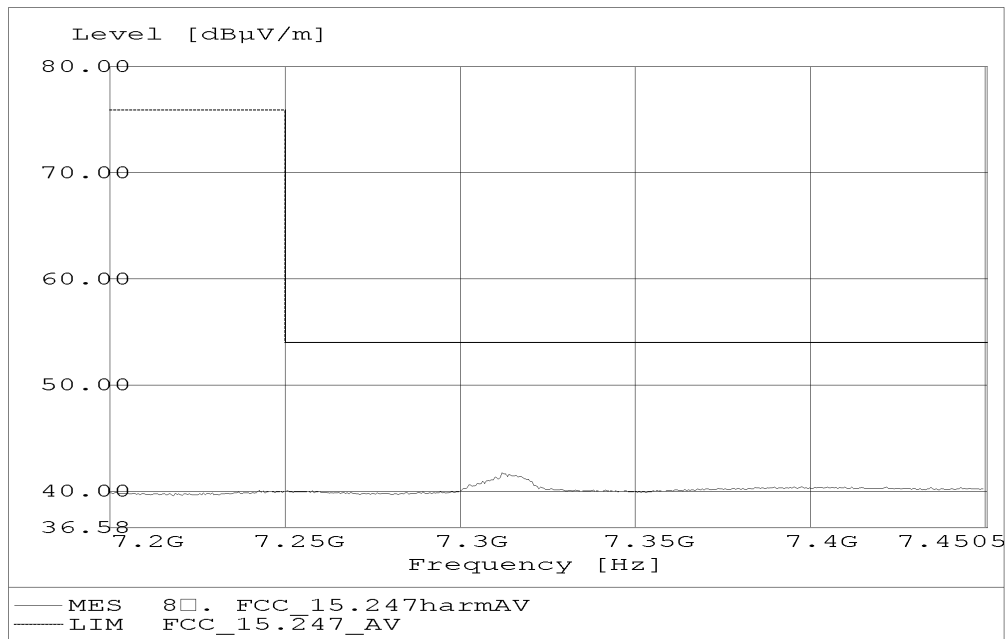


08.03.03 17:18 2nd Harmonic / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 7.312GHz, Emax: 41.74dBµV/m, RBW: 1MHz

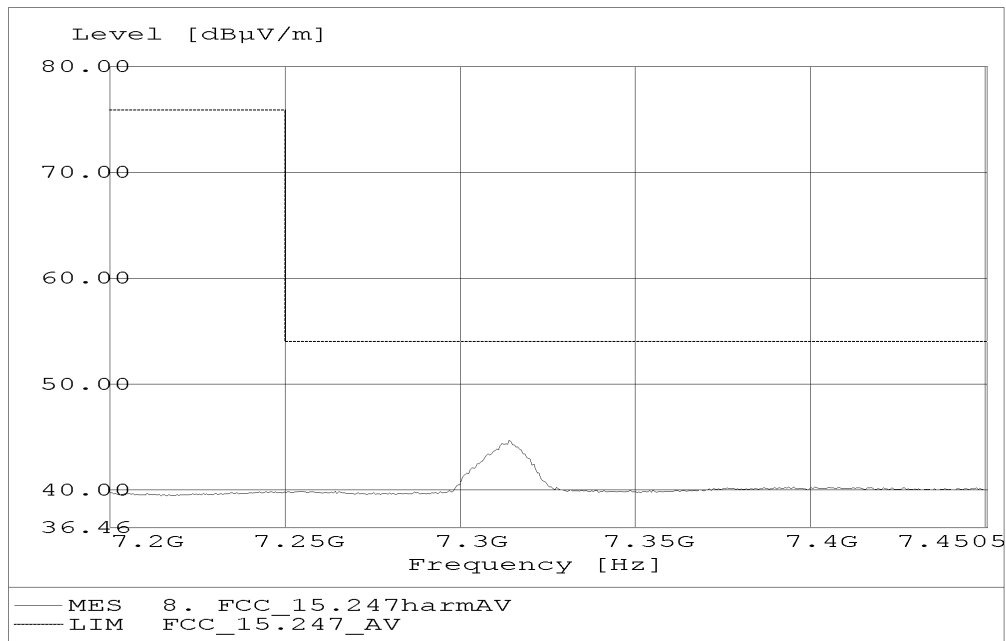


08.03.03 17:14 3rd Harmonic / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 7.314GHz, Emax: 44.71dB $\mu\text{V/m}$, RBW: 1MHz



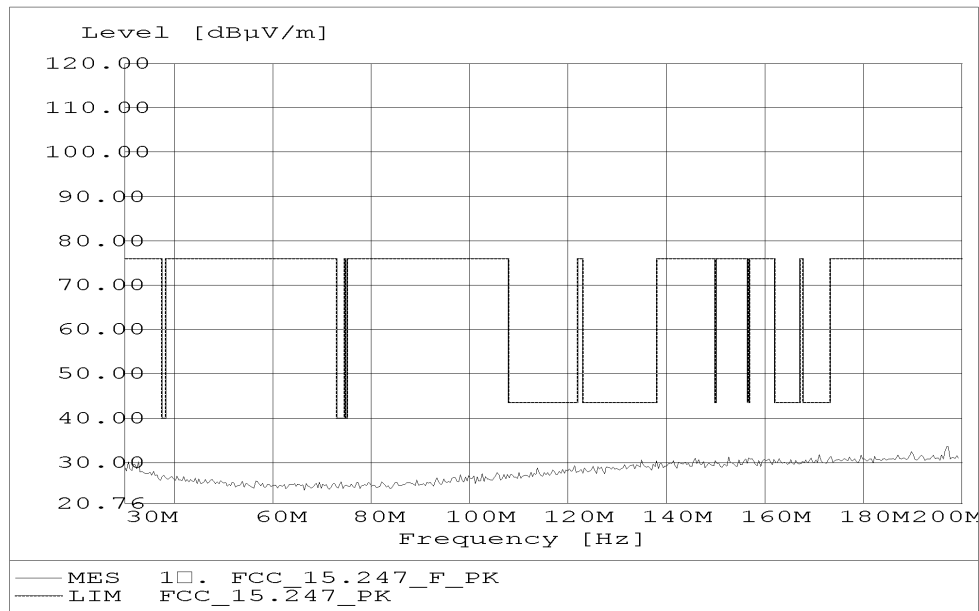
08.03.03 17:16 3rd Harmonic / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Mode : DSSS CW, Channel 6 peak measurement

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116
Start of Test: Freq: 196.934MHz, Emax: 33.61dBµV/m, RBW: 100kHz



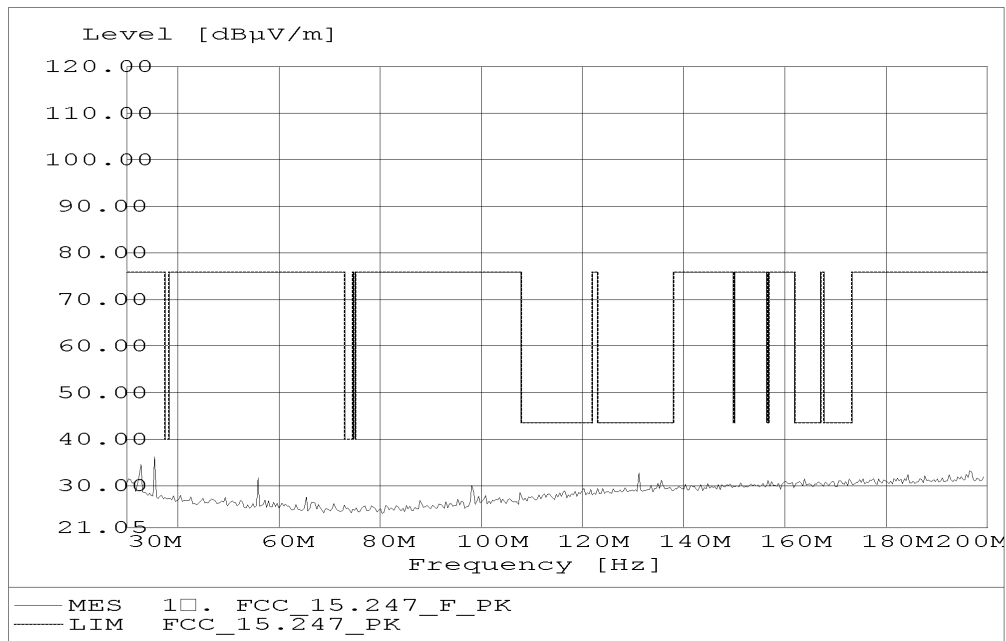
08.03.03 18:45 Overview / Antenna horizontal

S

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116
Start of Test: Freq: 35.451MHz, Emax: 36.19dB $\mu\text{V/m}$, RBW: 100kHz

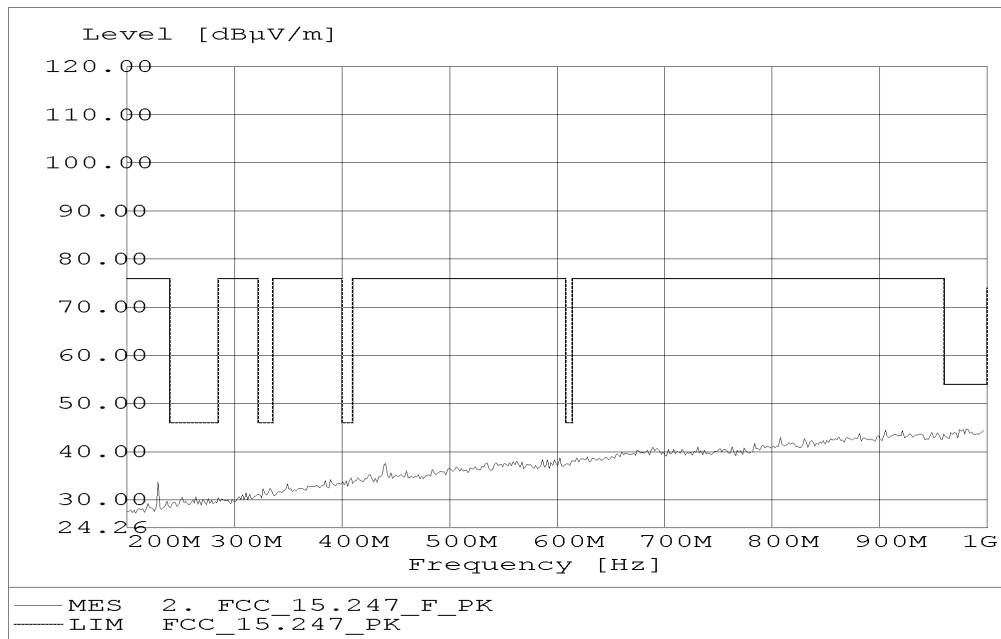


08.03.03 18:38 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Start of Test: Freq: 980.762MHz, E_{max} : 44.75dB $\mu\text{V/m}$, RBW: 100kHz

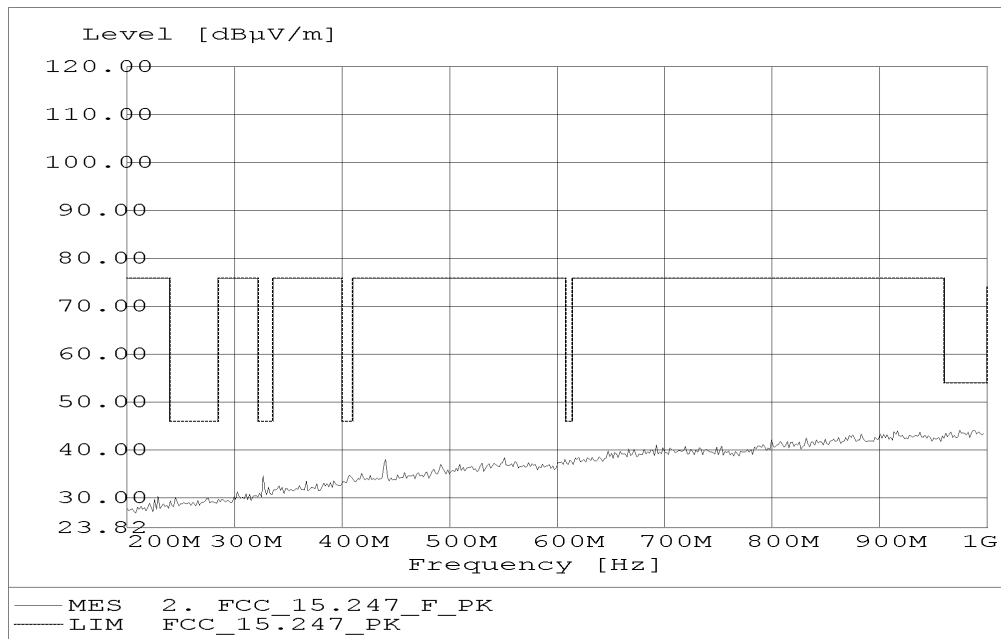


08.03.03 18:39 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Start of Test: Freq: 987.174MHz, E_{max} : 44.15dB $\mu\text{V/m}$, RBW: 100kHz

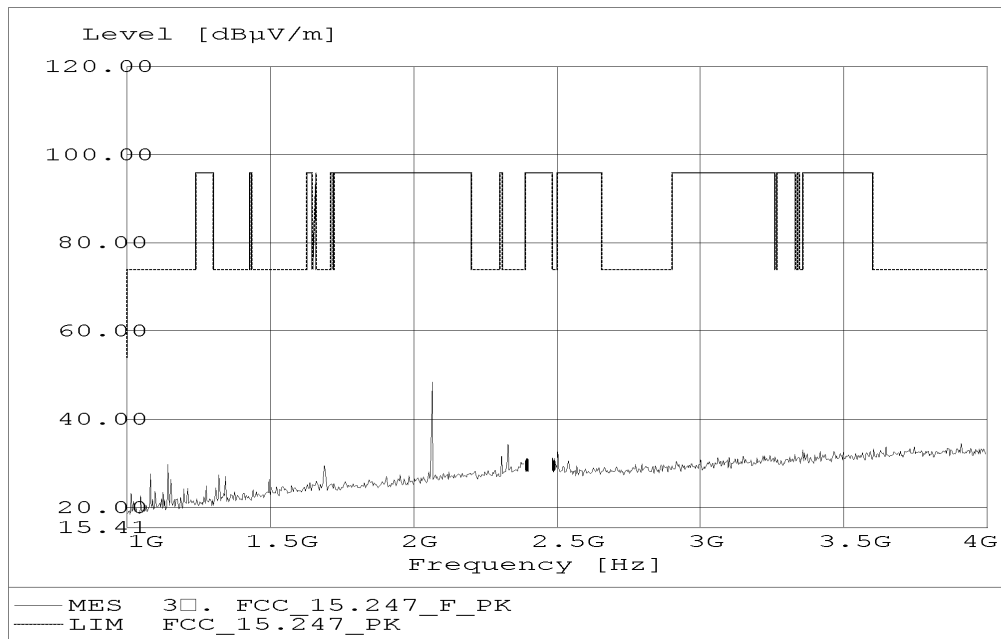


08.03.03 18:23 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 2.064GHz, Emax: 48.42dBuV/m, RBW: 1MHz

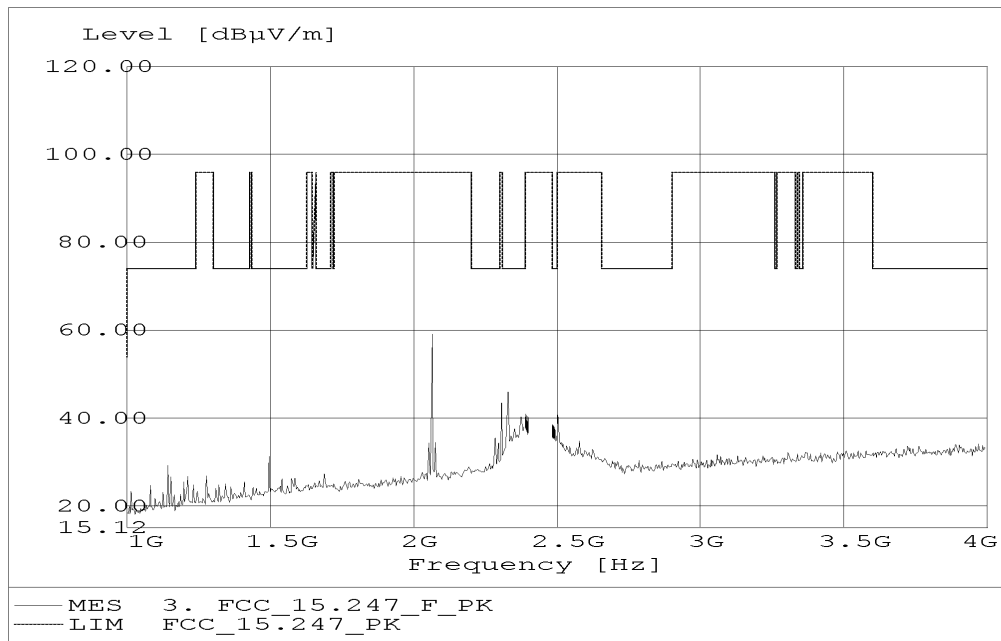


08.03.03 18:16 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 2.064GHz, Emax: 59.06dB $\mu\text{V/m}$, RBW: 1MHz

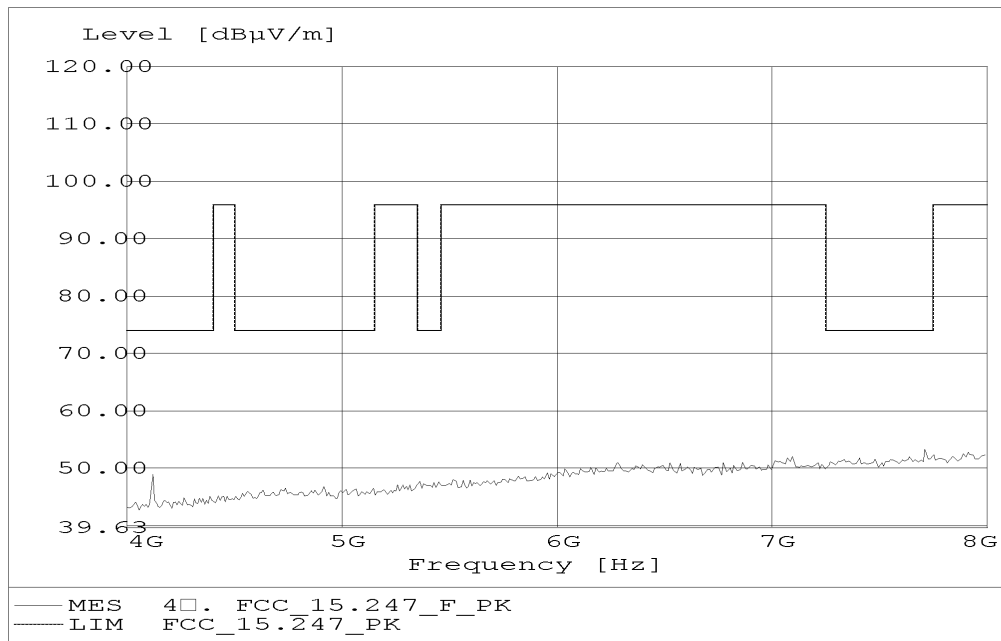


08.03.03 18:10 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 7.711GHz, Emax: 53.25dB $\mu\text{V/m}$, RBW: 1MHz

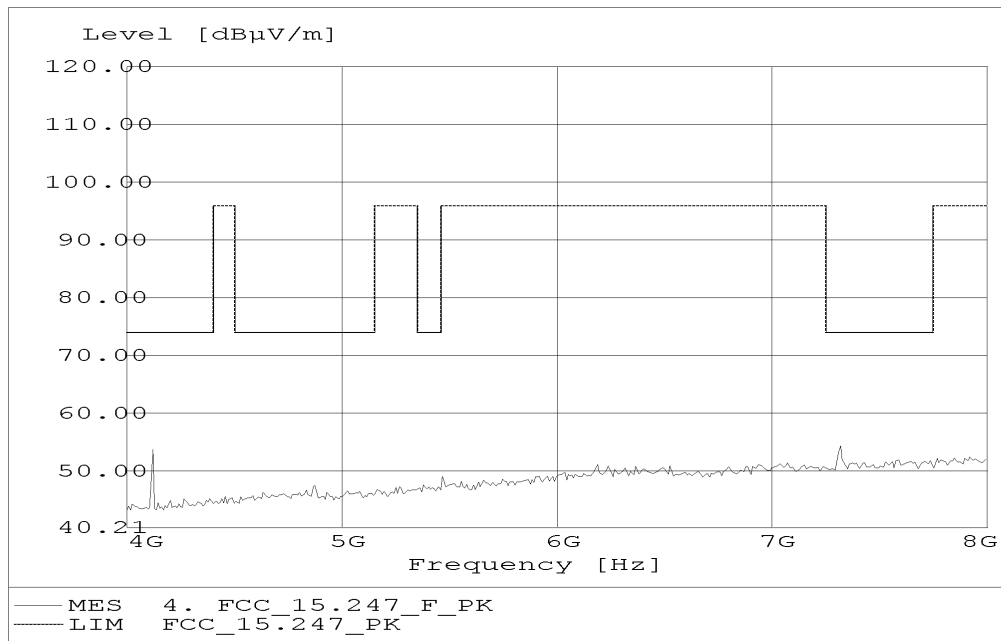


08.03.03 17:51 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 7.319GHz, Emax: 54.35dBµV/m, RBW: 1MHz

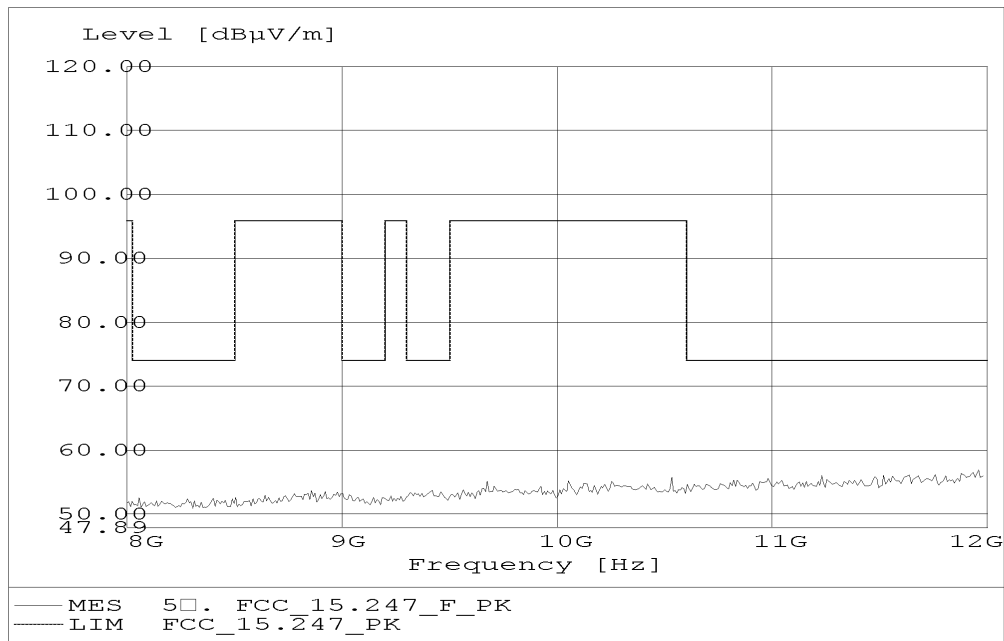


08.03.03 18:02 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 11.960GHz, E_{max} : 56.90dB $\mu\text{V/m}$, RBW: 1MHz

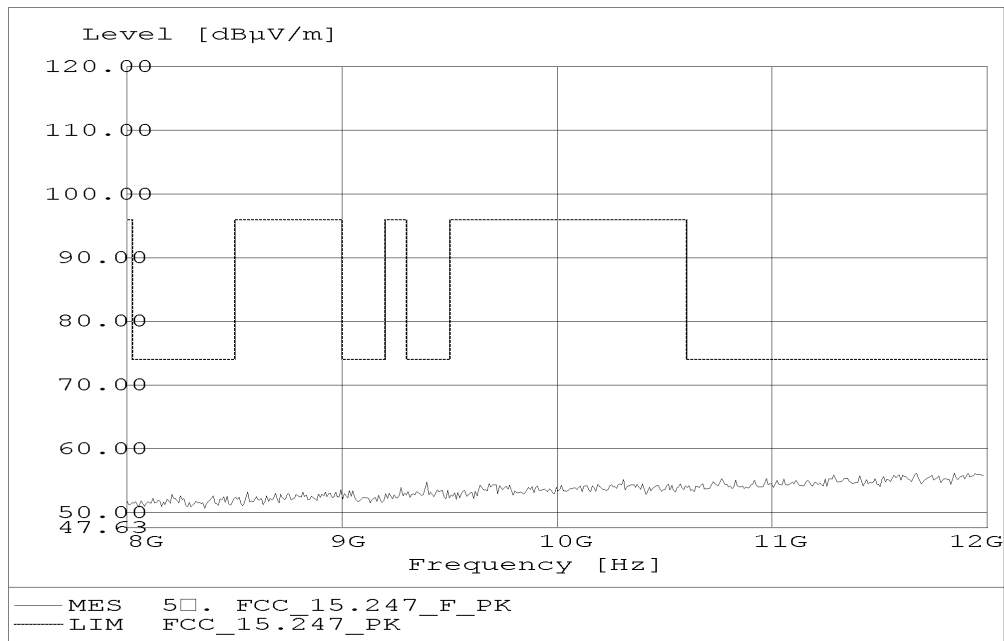


08.03.03 17:47 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 11.848GHz, E_{max} : 56.19dB $\mu\text{V/m}$, RBW: 1MHz

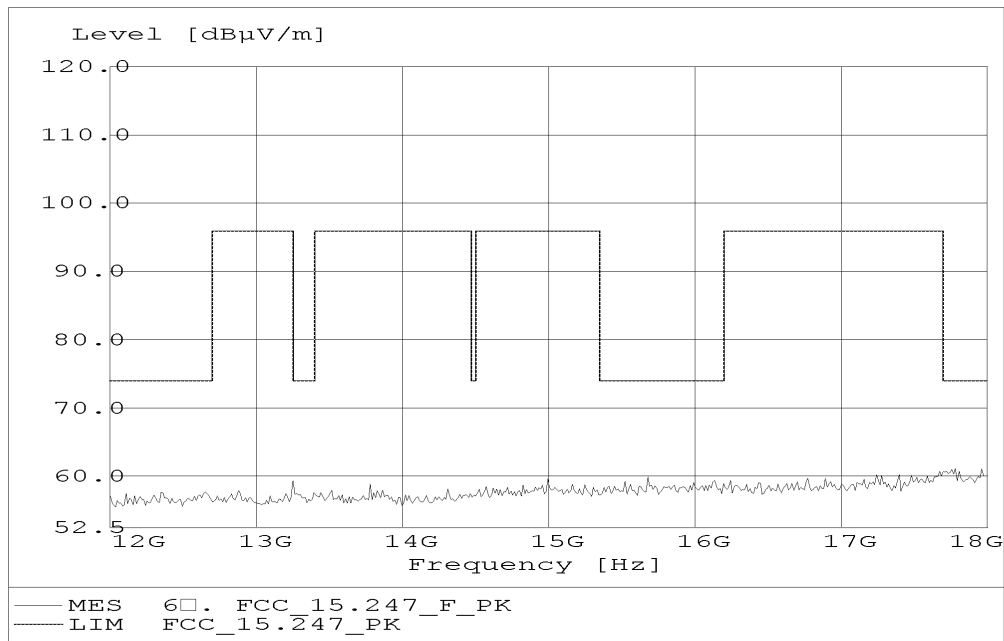


08.03.03 17:45 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 17.784GHz, E_{max} : 61.14dB $\mu\text{V/m}$, RBW: 1MHz

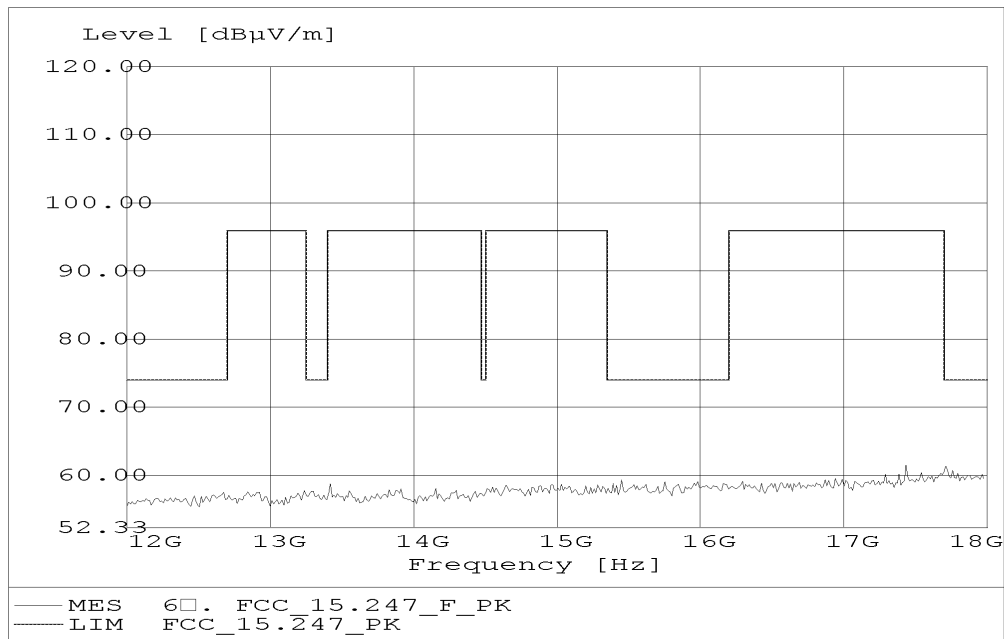


08.03.03 17:49 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 17.435GHz, E_{max} : 61.55dB $\mu\text{V/m}$, RBW: 1MHz

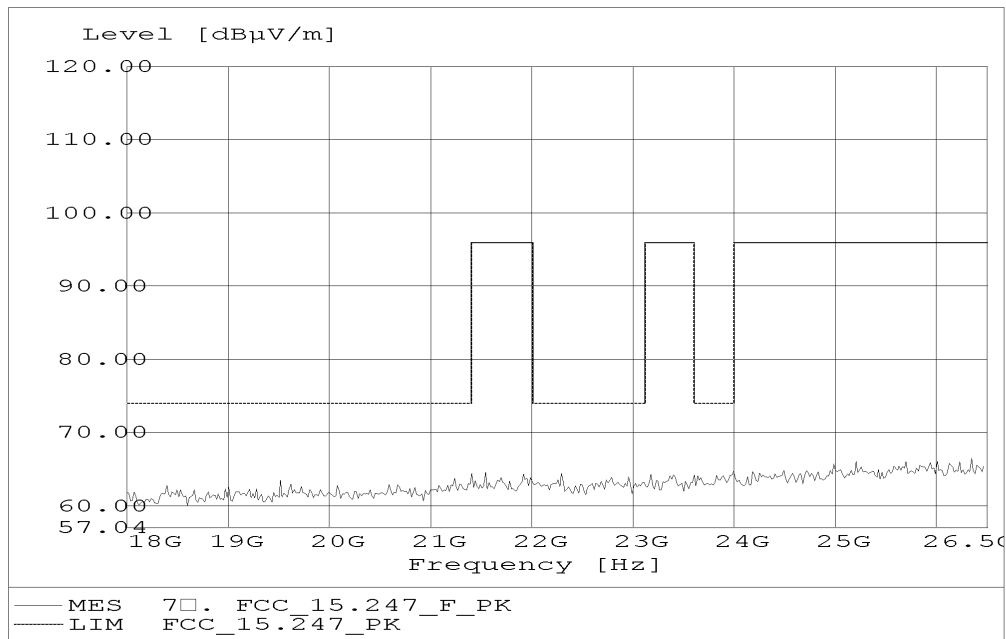


08.03.03 17:44 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 26.347GHz, E_{max} : 66.51dB $\mu\text{V/m}$, RBW: 1MHz

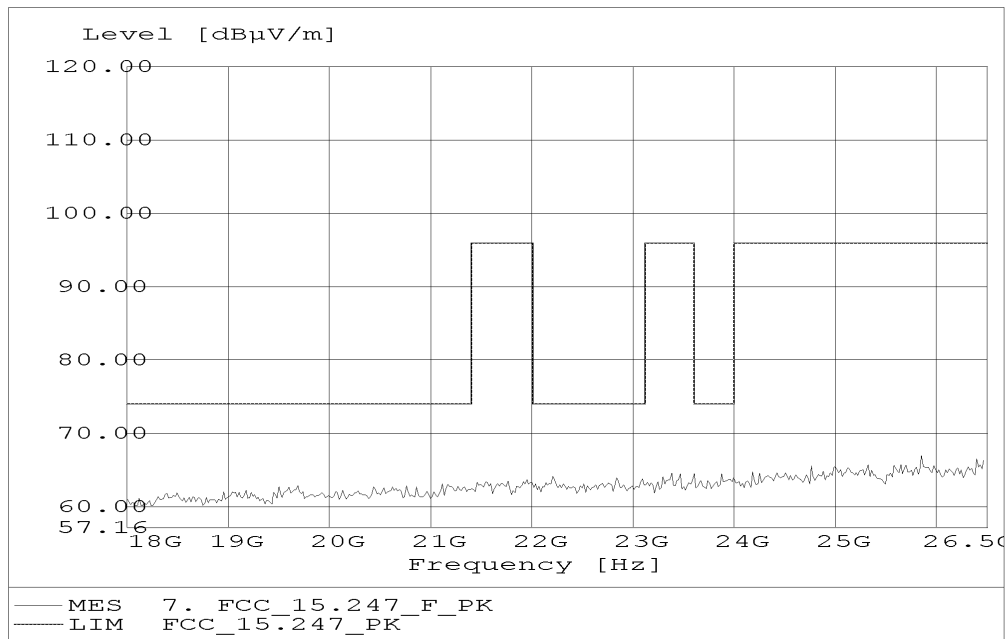


08.03.03 17:40 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 25.853GHz, E_{max} : 66.94dB $\mu\text{V/m}$, RBW: 1MHz

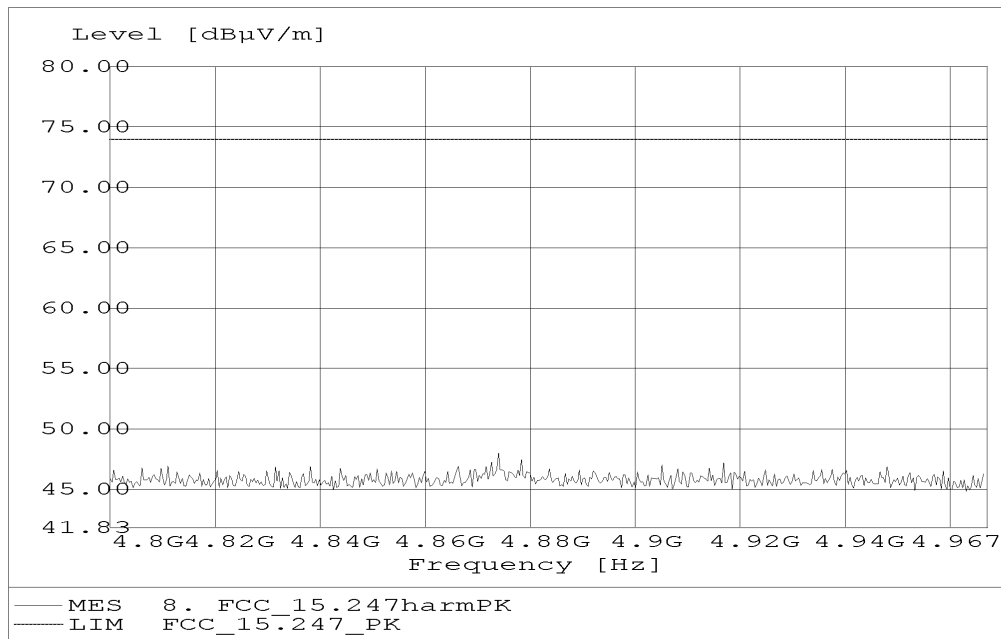


08.03.03 17:42 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 4.874GHz, Emax: 48.01dBuV/m, RBW: 1MHz

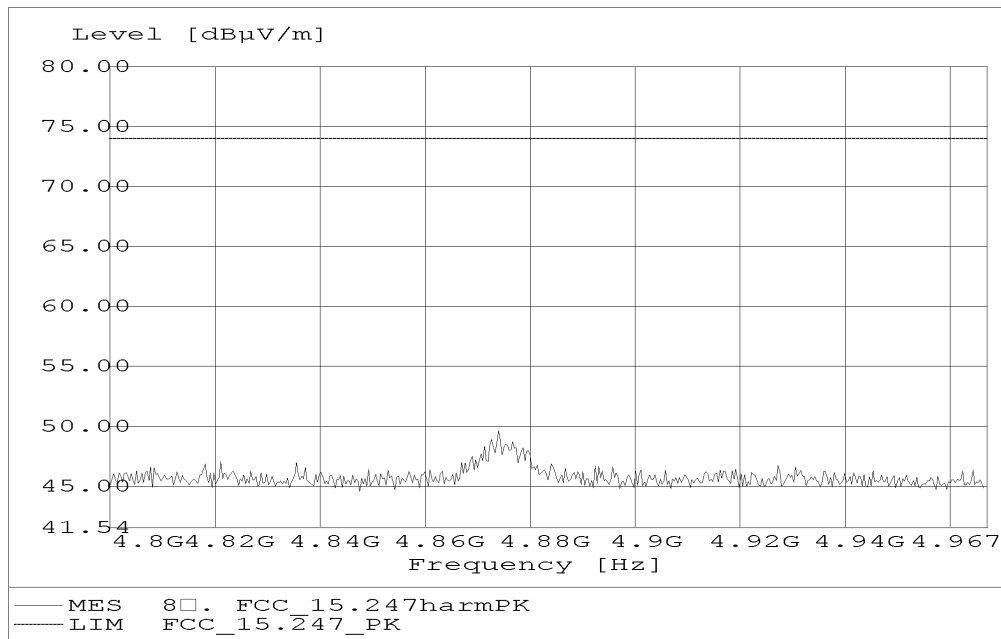


08.03.03 17:54 2nd Harmonic / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 4.874GHz, Emax: 49.59dBuV/m, RBW: 1MHz

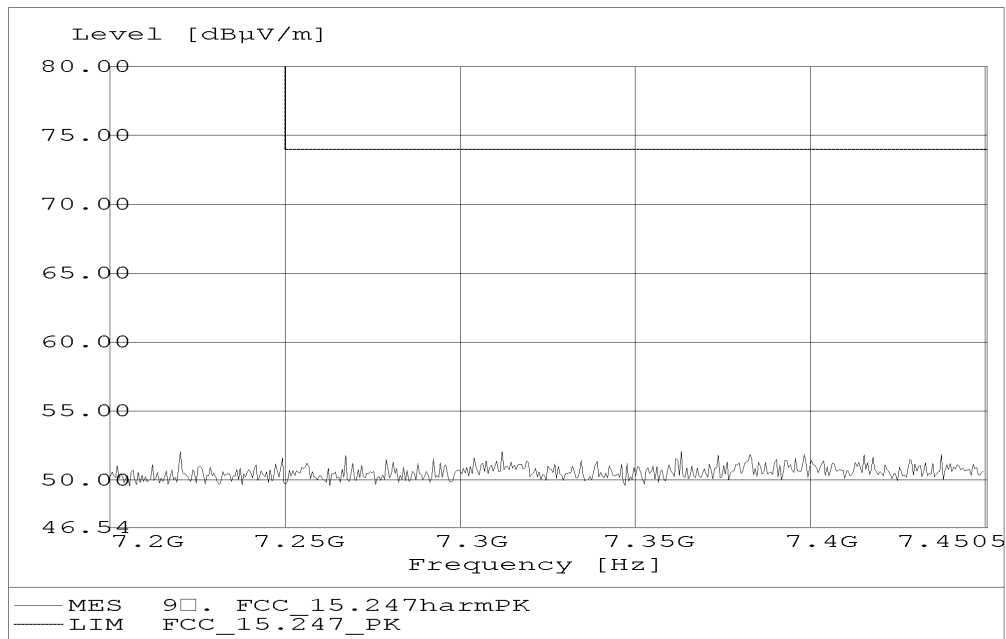


08.03.03 18:00 2nd Harmonic / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 7.363GHz, Emax: 52.07dBµV/m, RBW: 1MHz

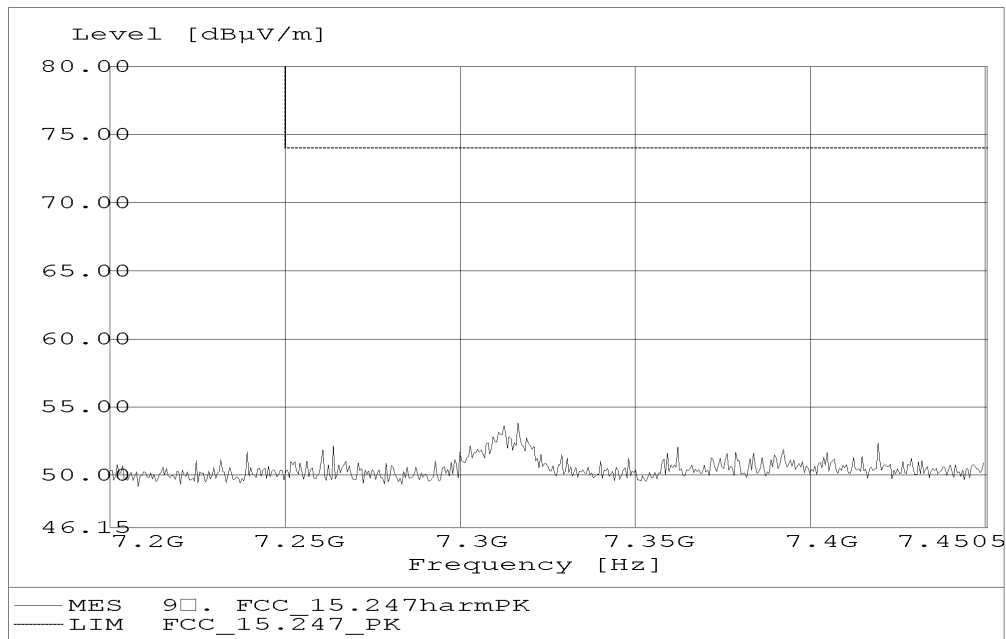


08.03.03 17:56 3rd Harmonic / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 7.316GHz, Emax: 53.84dBuV/m, RBW: 1MHz

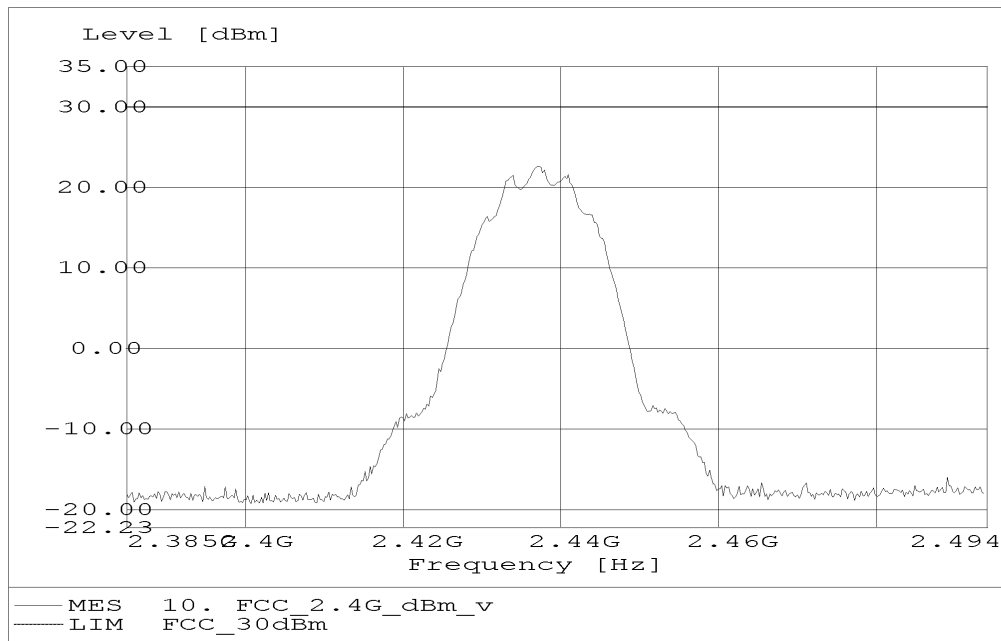


08.03.03 17:58 3rd Harmonic / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Radiated Maximum Peak Power
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 6
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL025
Start of Test: Freq: 2.437GHz, Pmax: 22.59dBm, RBW: 5MHz



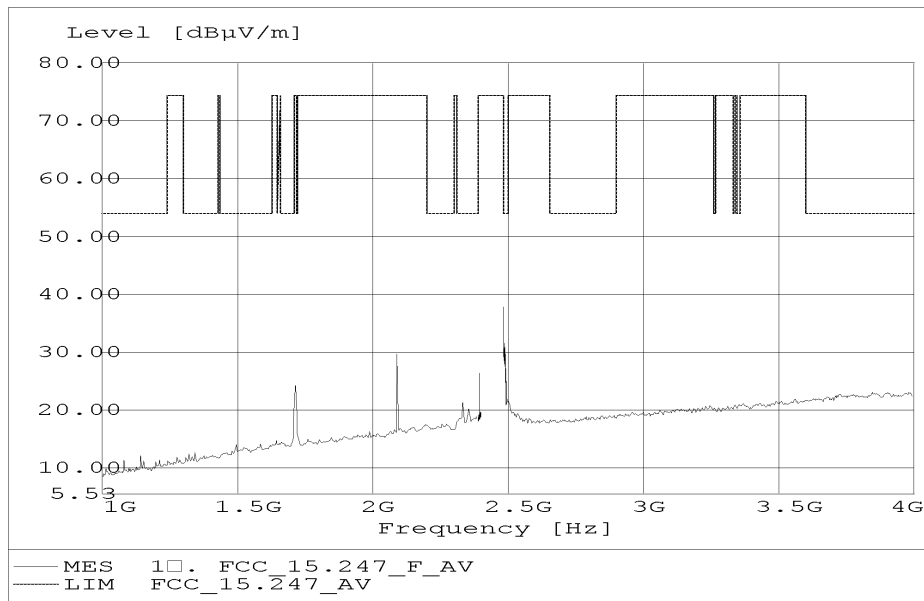
08.03.03 16:44 / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Mode : DSSS CW, Channel 11 average measurements

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 2.484GHz, Emax: 37.89dBµV/m, RBW: 1MHz

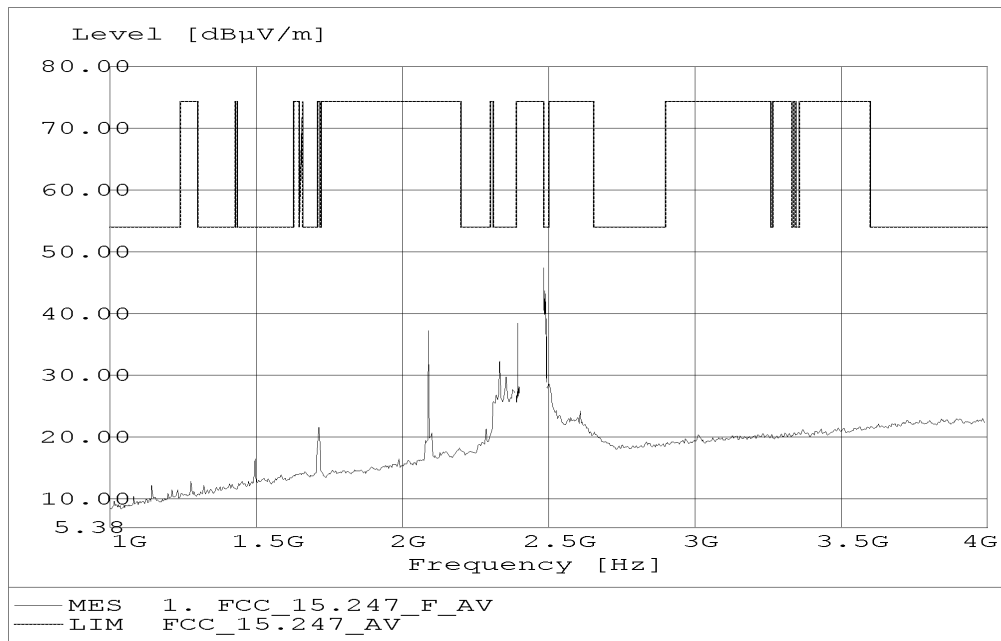


08.03.03 14:26 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 2.484GHz, Emax: 47.44dBuV/m, RBW: 1MHz

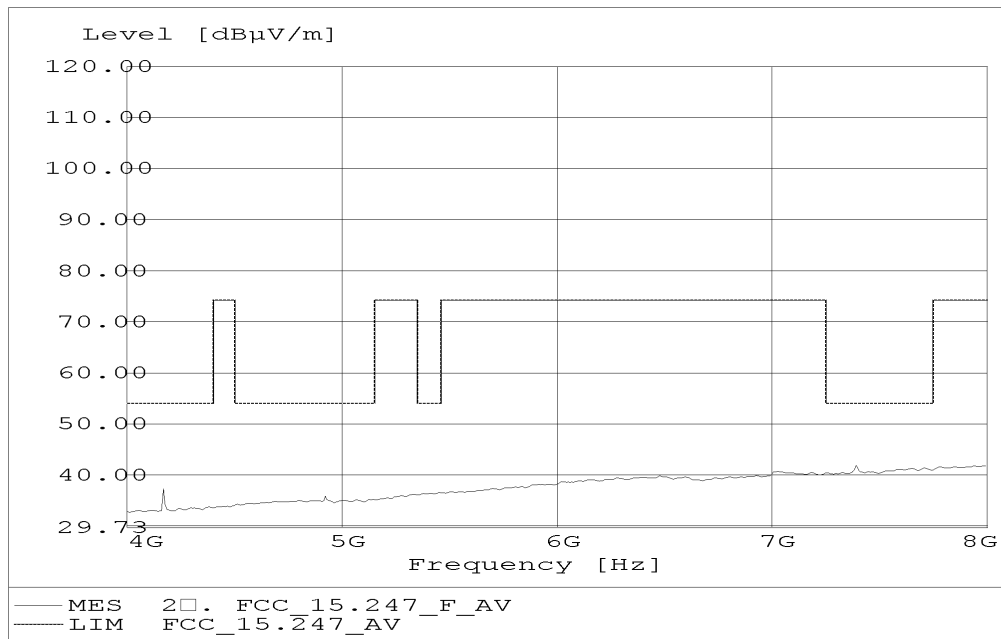


08.03.03 14:19 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 7.391GHz, Emax: 41.91dB $\mu\text{V/m}$, RBW: 1MHz

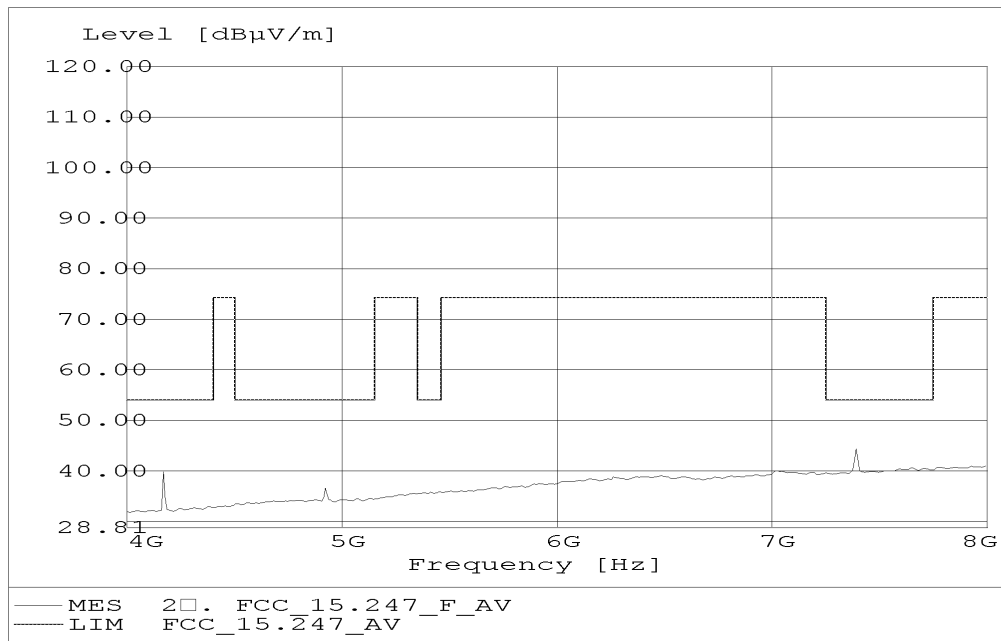


08.03.03 14:31 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 7.391GHz, Emax: 44.42dB $\mu\text{V/m}$, RBW: 1MHz

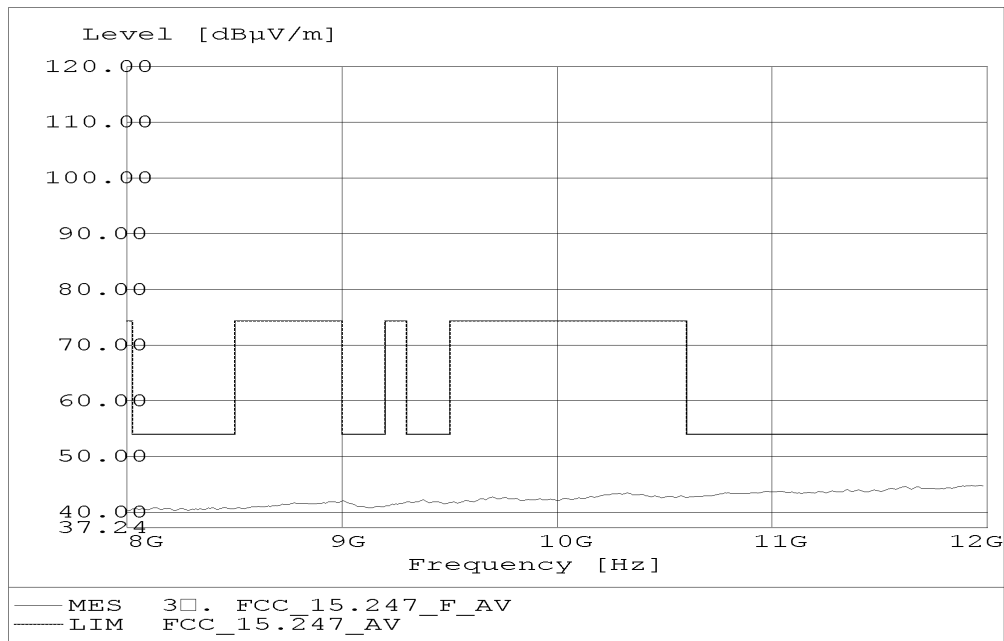


08.03.03 14:43 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 11.928GHz, Emax: 44.83dB $\mu\text{V/m}$, RBW: 1MHz

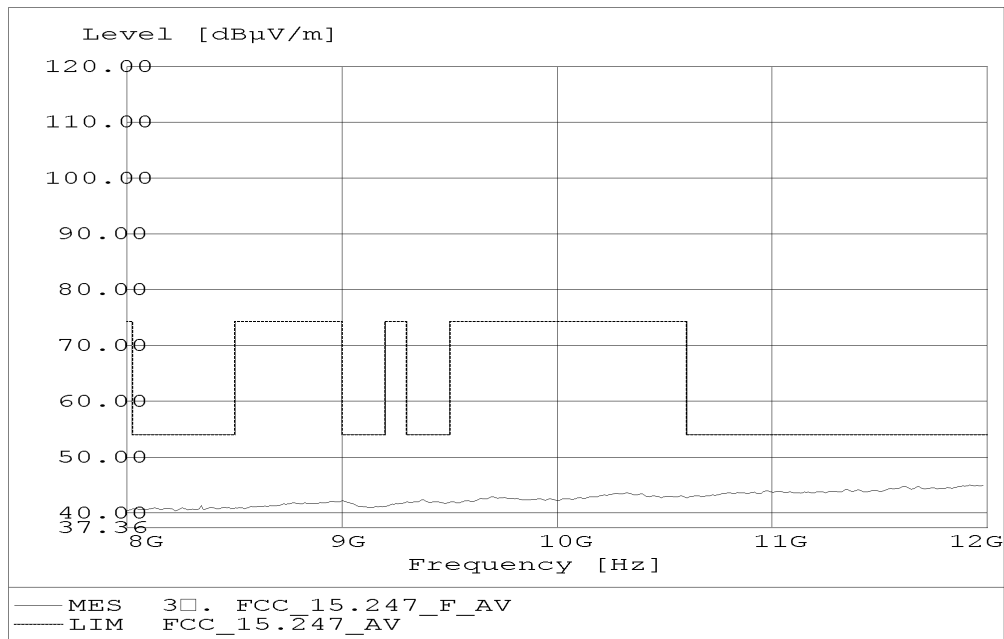


08.03.03 14:57 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 11.920GHz, Emax: 44.96dBµV/m, RBW: 1MHz

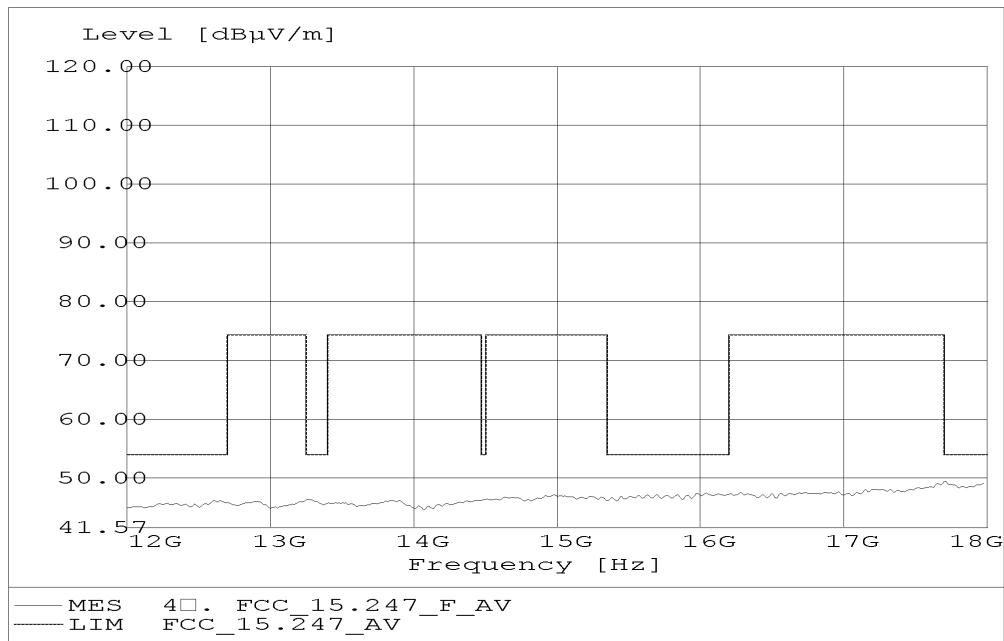


08.03.03 14:53 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 17.711GHz, Emax: 49.43dB μ V/m, RBW: 1MHz

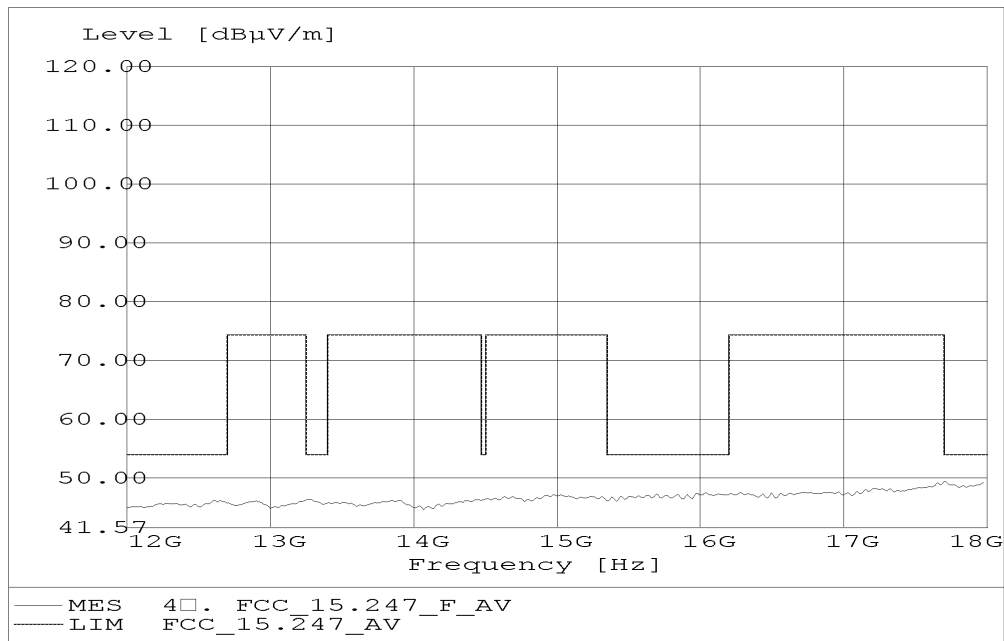


08.03.03 14:55 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 17.711GHz, Emax: 49.41dB μ V/m, RBW: 1MHz

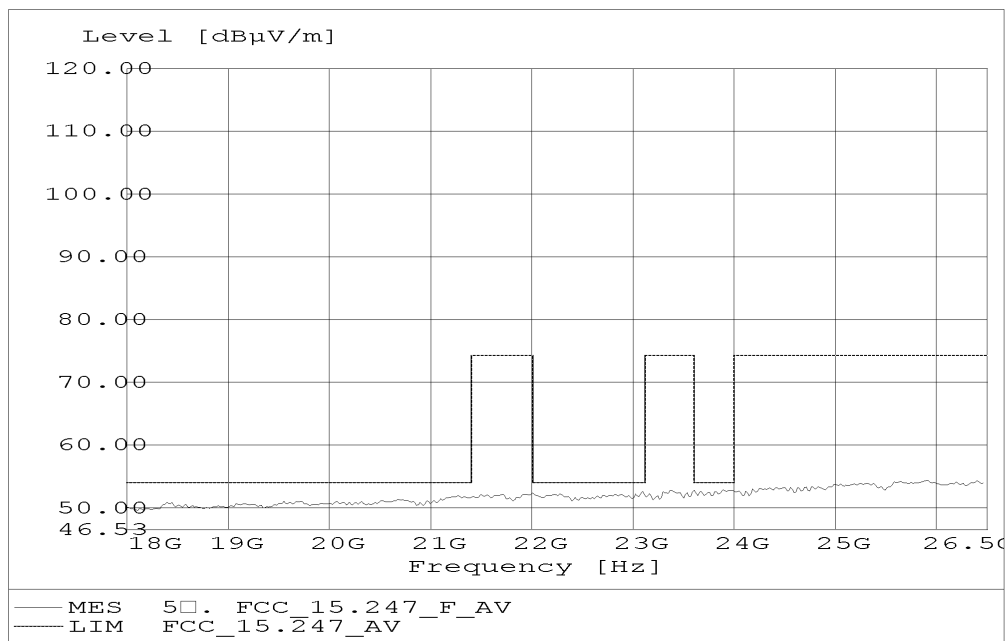


08.03.03 14:53 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 25.904GHz, Emax: 54.34dBµV/m, RBW: 1MHz

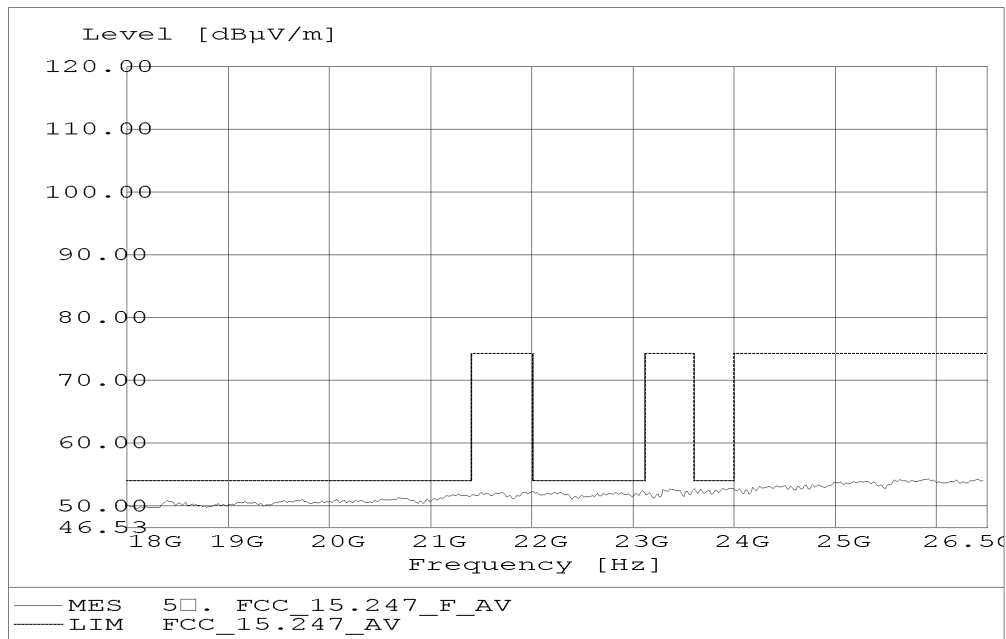


08.03.03 14:59 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 25.921GHz, E_{max} : 54.29dB $\mu\text{V/m}$, RBW: 1MHz

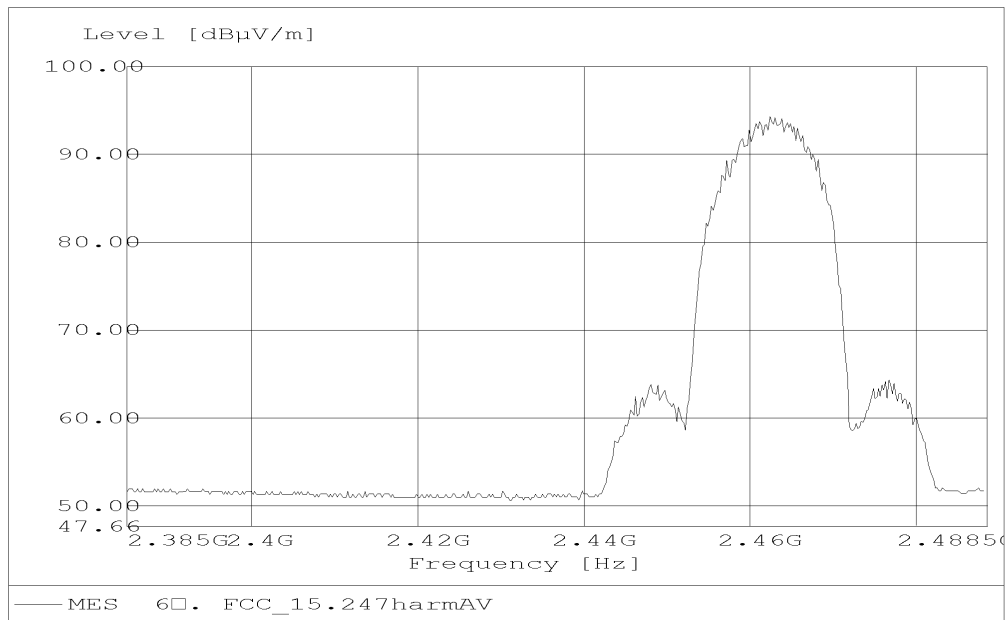


08.03.03 15:00 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Signal Fieldstrength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025
Start of Test: Freq: 2.462GHz, Emax: 94.31dBµV/m, RBW: 1MHz

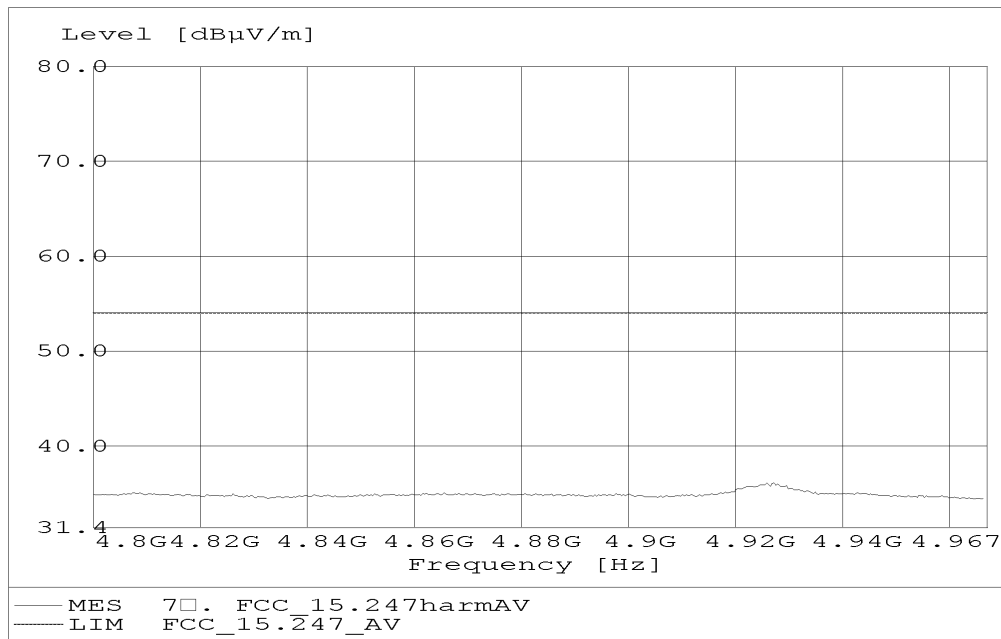


08.03.03 14:08 / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 4.927GHz, Emax: 36.11dBµV/m, RBW: 1MHz

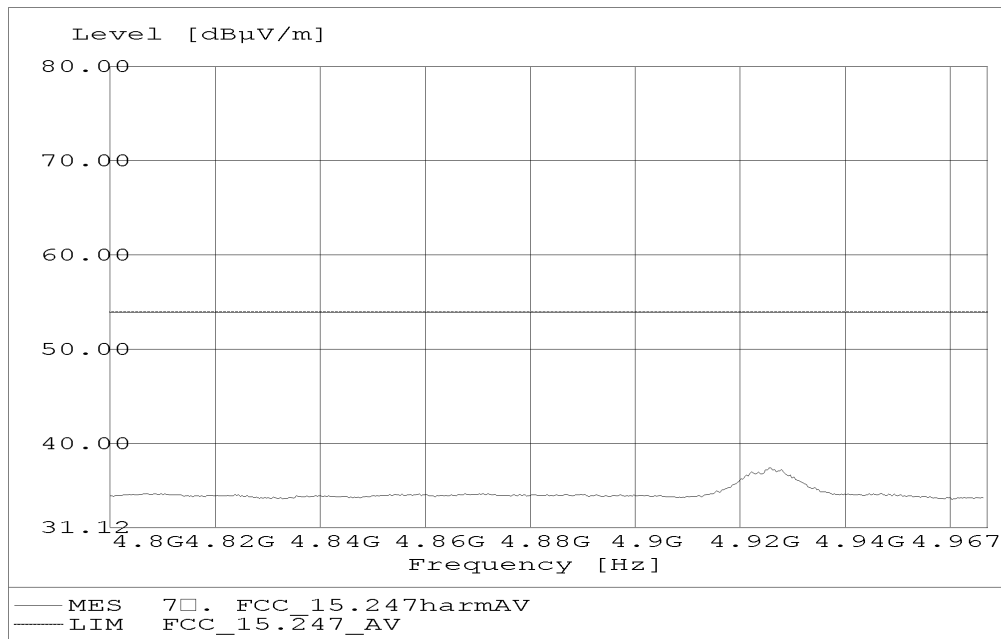


08.03.03 14:33 2nd Harmonic / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
 Manufacturer : Sonicwall
 Ch. 11
 Operating Condition: t nom=23°C V nom=110V AC
 Test Site / Operator: ETS / Mr. Schultze
 Test Specification: according to §15.247 / mode : TX
 Comment 1: Dist.: 3m, Ant.: HL025, amplif.
 Start of Test: Freq: 4.926GHz, Emax: 37.44dBuV/m, RBW: 1MHz

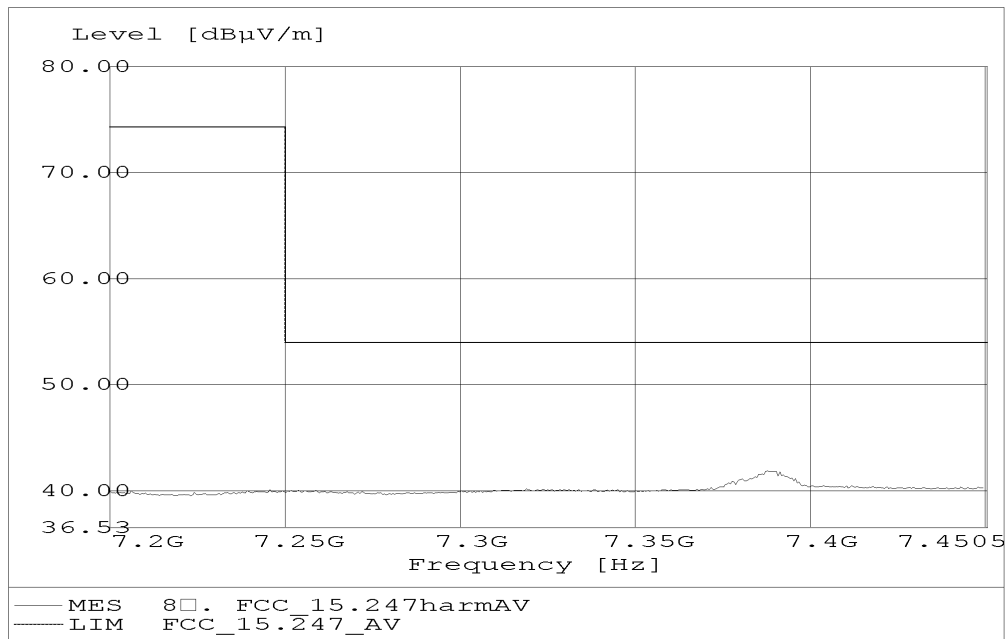


08.03.03 14:41 2nd Harmonic / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 7.388GHz, Emax: 41.89dBµV/m, RBW: 1MHz

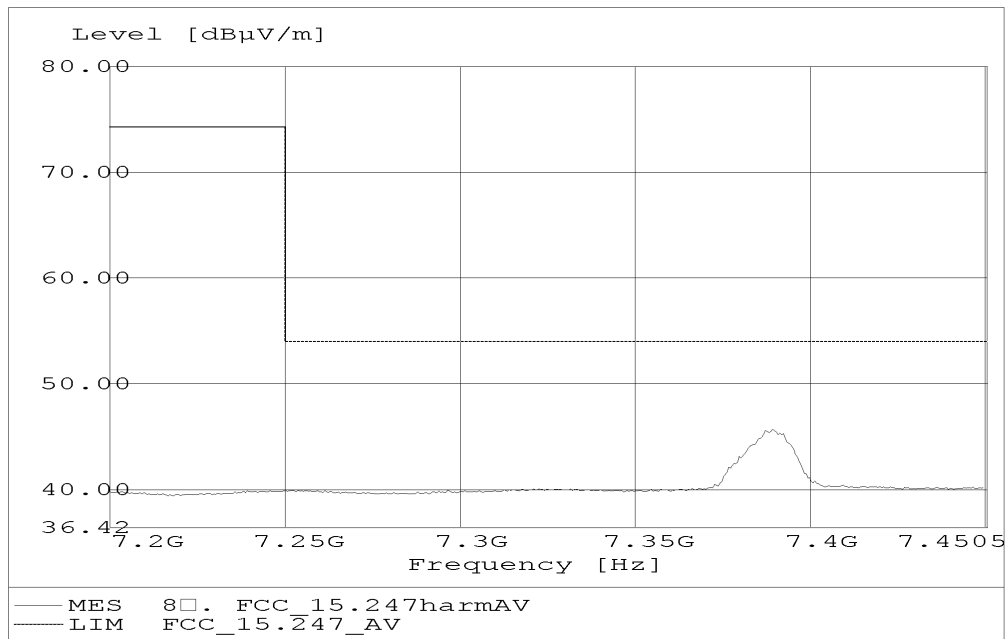


08.03.03 14:35 3rd Harmonic / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode : TX
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 7.389GHz, Emax: 45.71dBµV/m, RBW: 1MHz



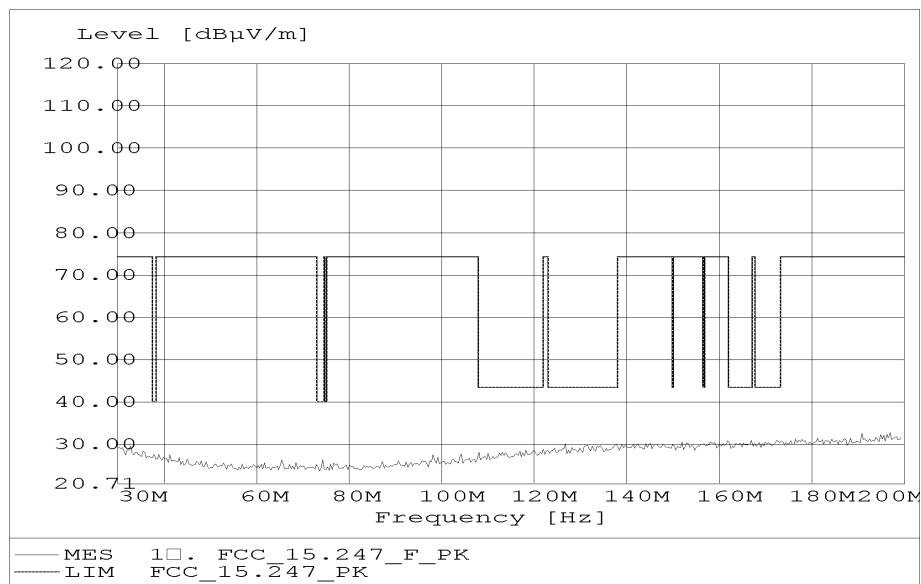
08.03.03 14:39 3rd Harmonic / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Mode : DSSS CW, Channel 11 peak measurements

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116
Start of Test: Freq: 196.934MHz, Emax: 32.82dBµV/m, RBW: 100kHz

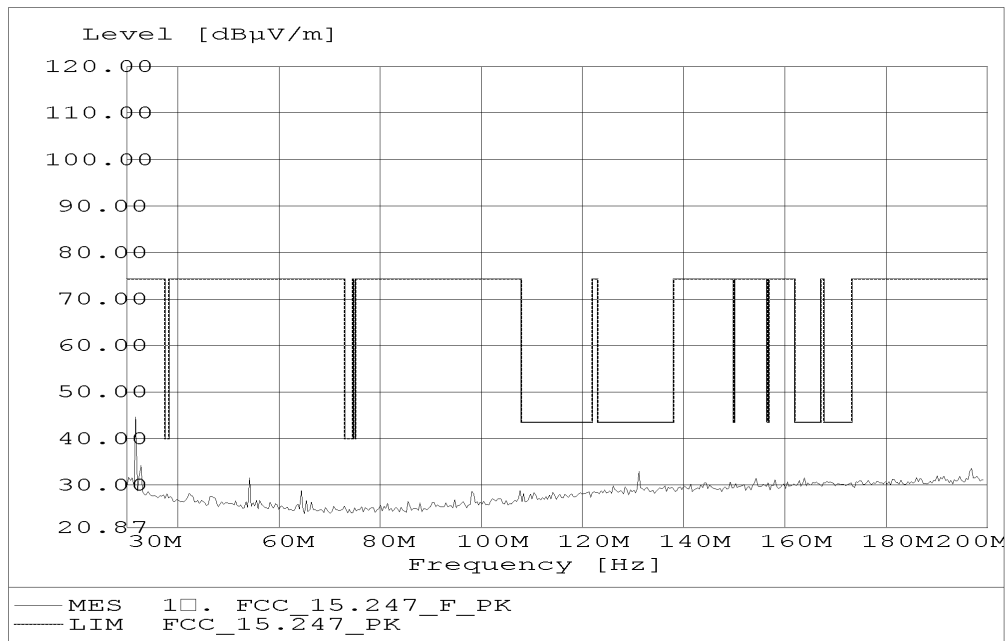


08.03.03 16:33 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116
Start of Test: Freq: 31.703MHz, Emax: 44.60dB $\mu\text{V/m}$, RBW: 100kHz

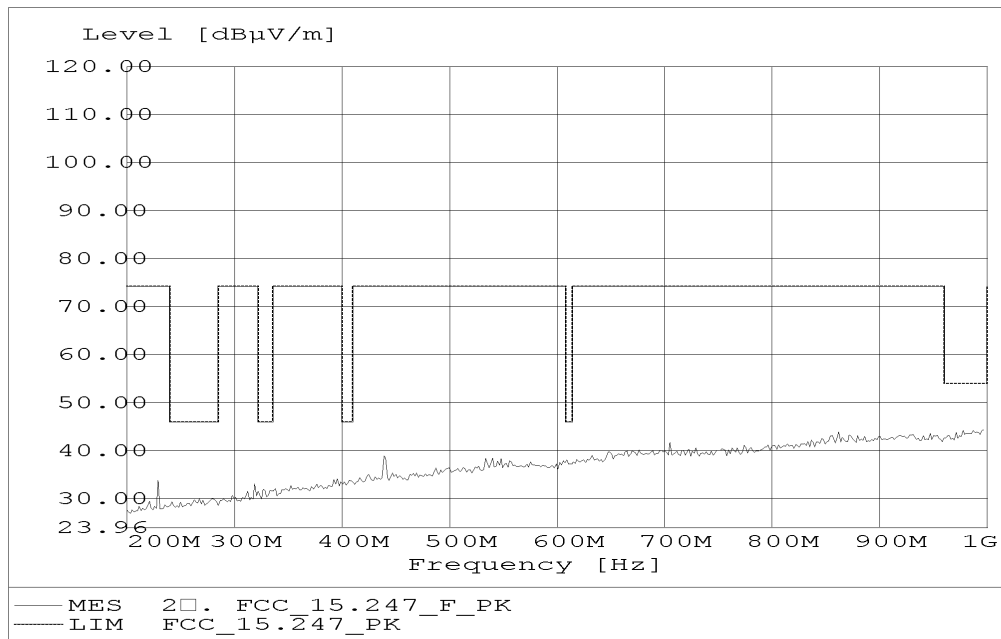


08.03.03 16:30 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Start of Test: Freq: 977.555MHz, Emax: 44.28dBµV/m, RBW: 100kHz

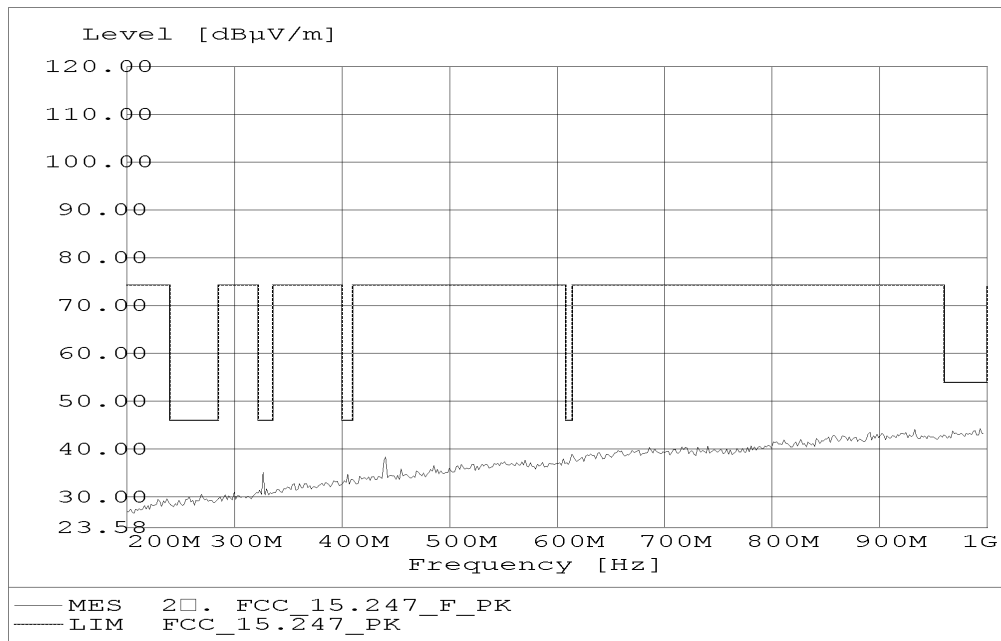


08.03.03 16:22 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Start of Test: Freq: 993.587MHz, E_{max} : 44.29dB $\mu\text{V/m}$, RBW: 100kHz

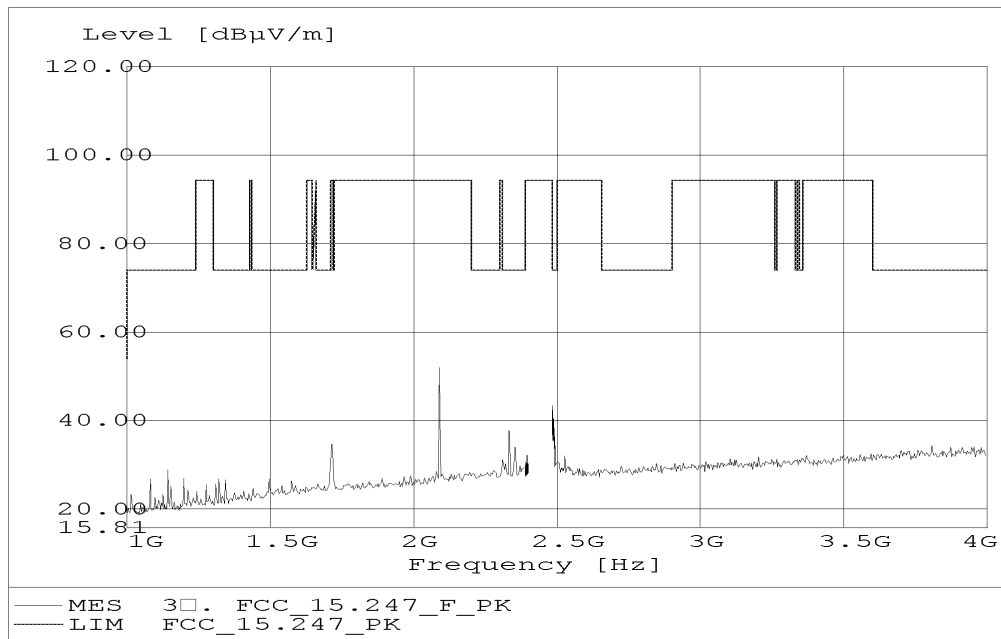


08.03.03 16:20 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 2.089GHz, Emax: 52.00dB $\mu\text{V/m}$, RBW: 1MHz

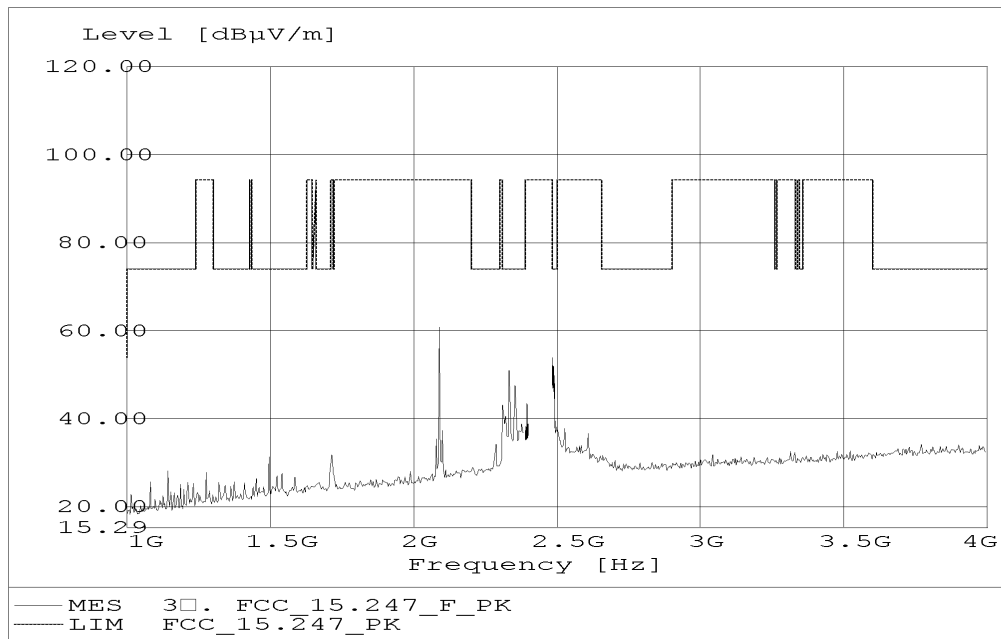


08.03.03 16:14 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 2.089GHz, Emax: 60.88dBuV/m, RBW: 1MHz

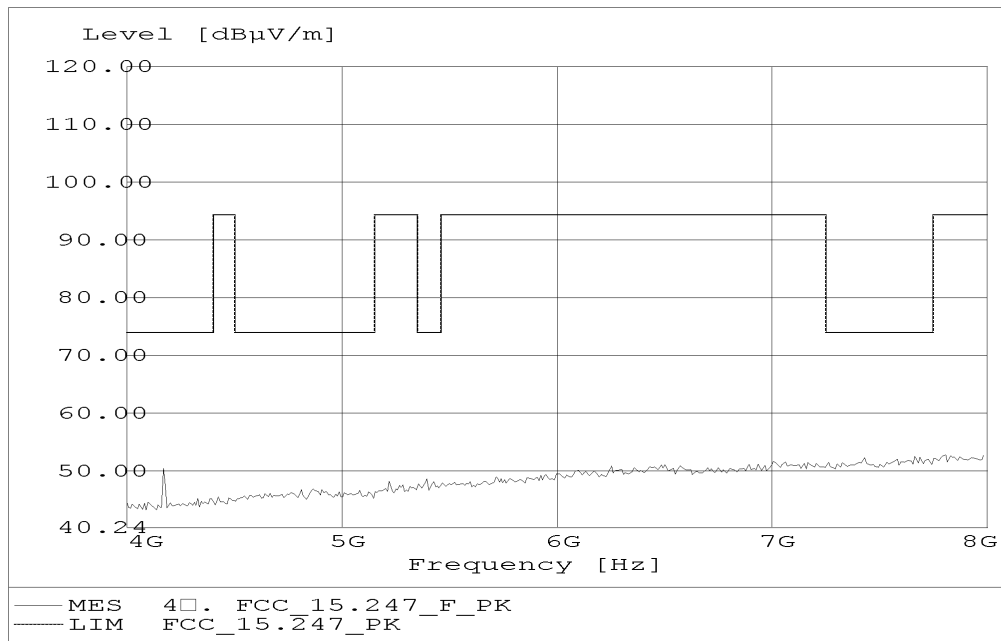


08.03.03 16:03 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 7.984GHz, Emax: 52.84dBµV/m, RBW: 1MHz

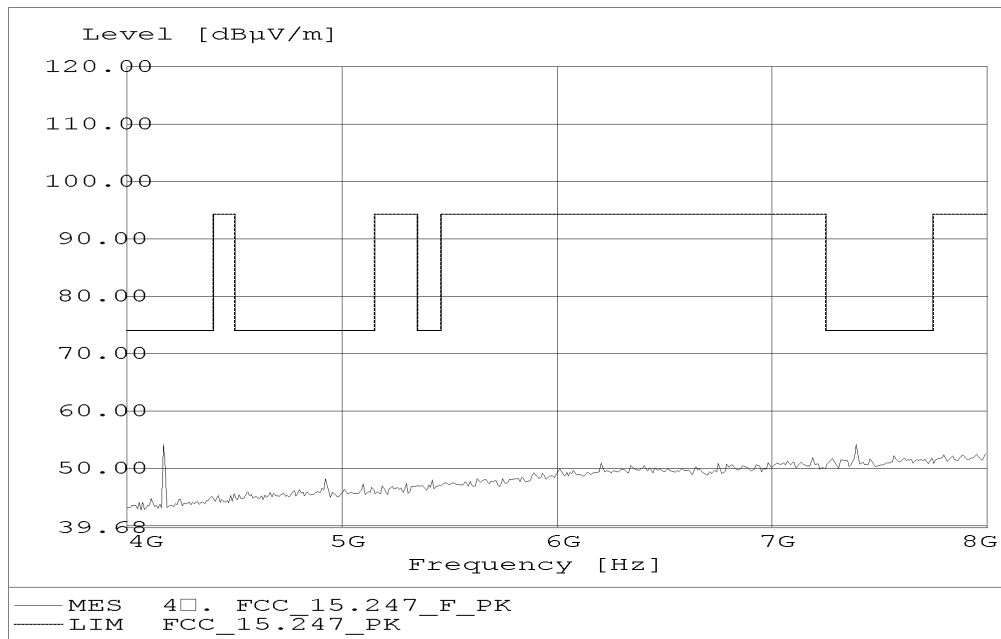


08.03.03 15:37 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 4.168GHz, Emax: 54.19dB $\mu\text{V/m}$, RBW: 1MHz

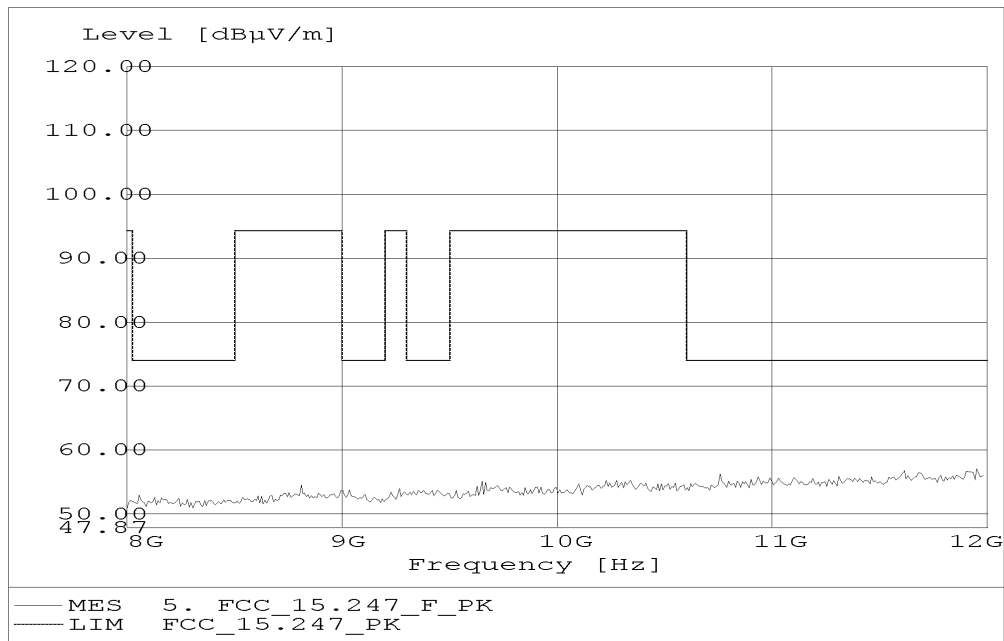


08.03.03 15:16 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 11.952GHz, E_{max} : 57.05dB $\mu\text{V/m}$, RBW: 1MHz

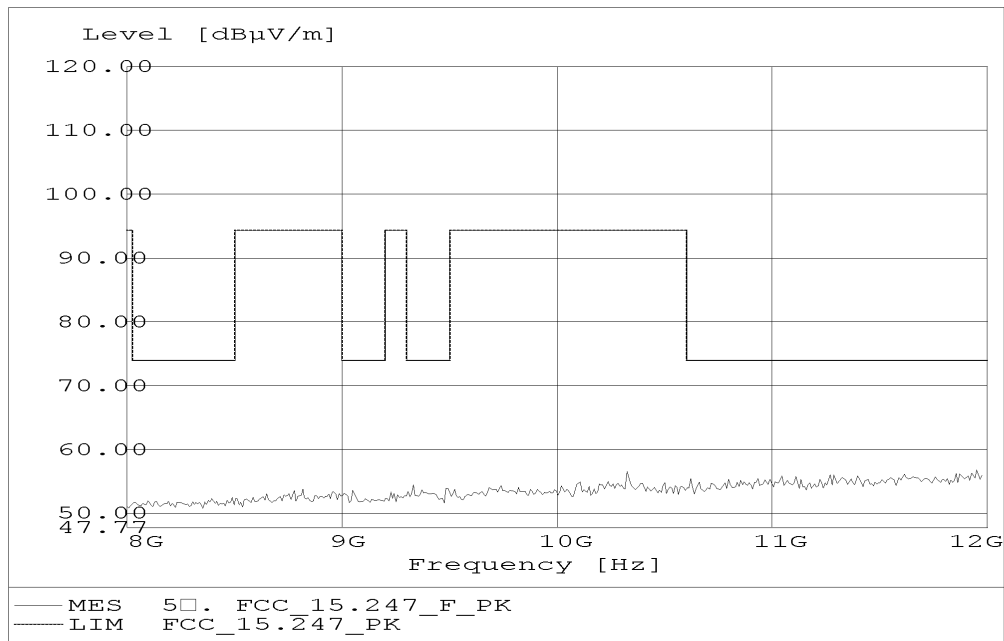


08.03.03 15:10 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 11.952GHz, E_{max} : 56.80dB $\mu\text{V/m}$, RBW: 1MHz

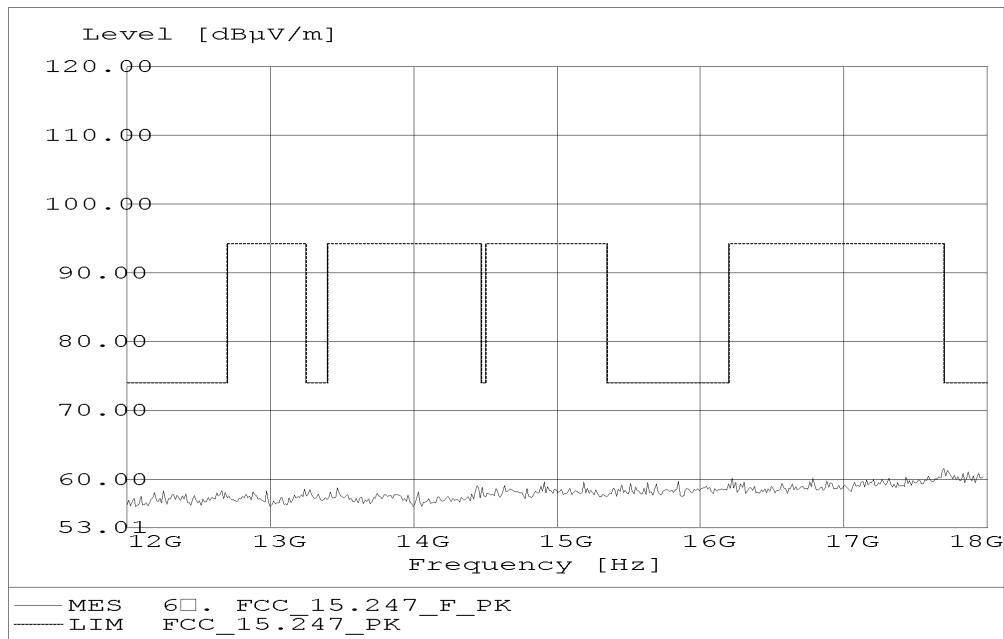


08.03.03 15:12 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 17.699GHz, E_{max} : 61.58dB $\mu\text{V/m}$, RBW: 1MHz

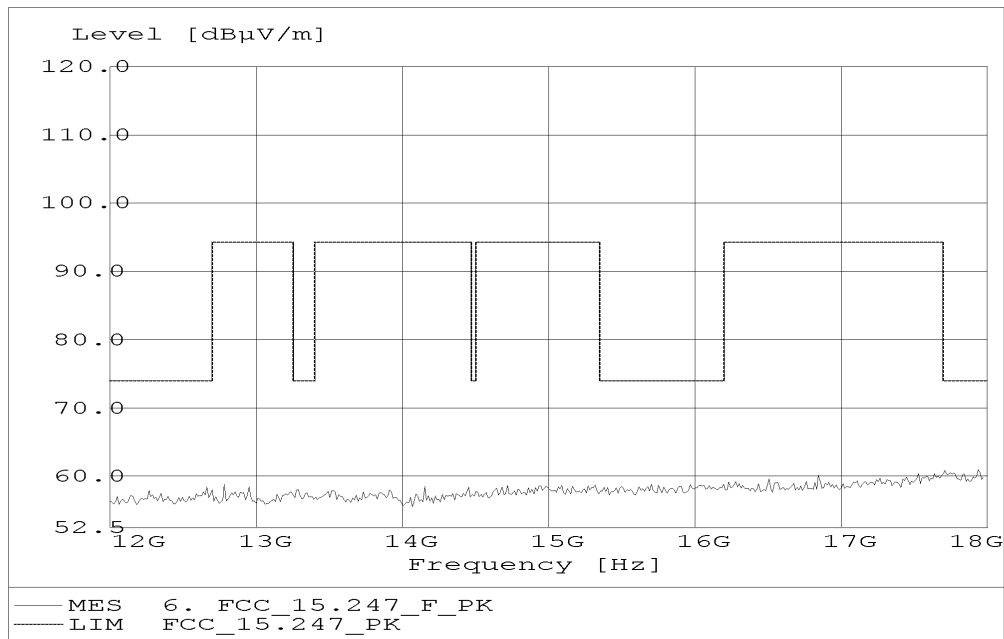


08.03.03 15:09 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, ampl.+HP.
Start of Test: Freq: 17.940GHz, E_{max} : 60.98dB $\mu\text{V/m}$, RBW: 1MHz

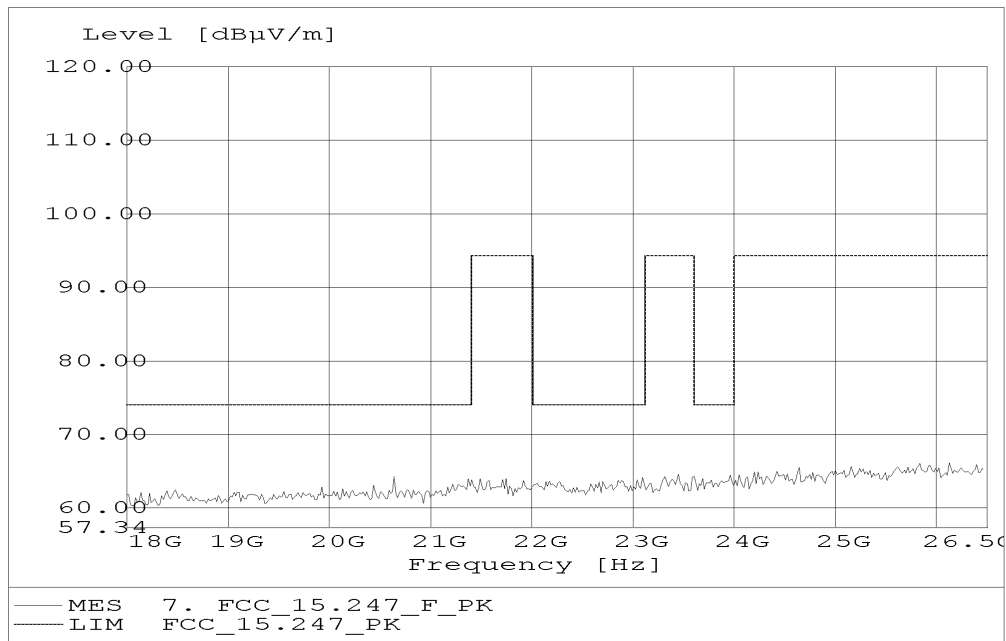


08.03.03 15:14 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 26.125GHz, E_{max} : 66.16dB $\mu\text{V/m}$, RBW: 1MHz

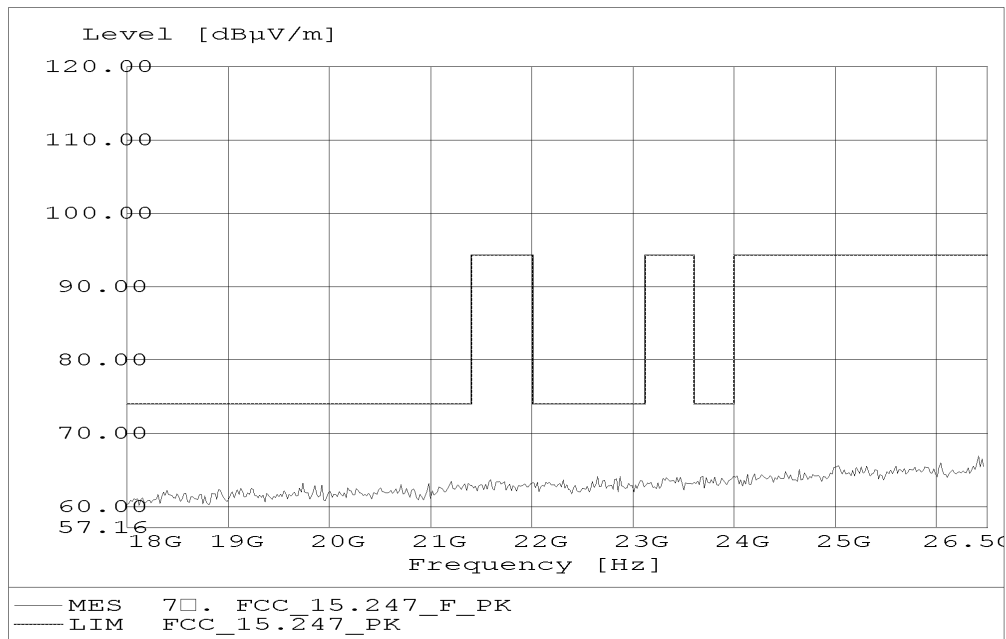


08.03.03 15:05 Overview / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 26.415GHz, E_{max} : 66.92dB $\mu\text{V/m}$, RBW: 1MHz

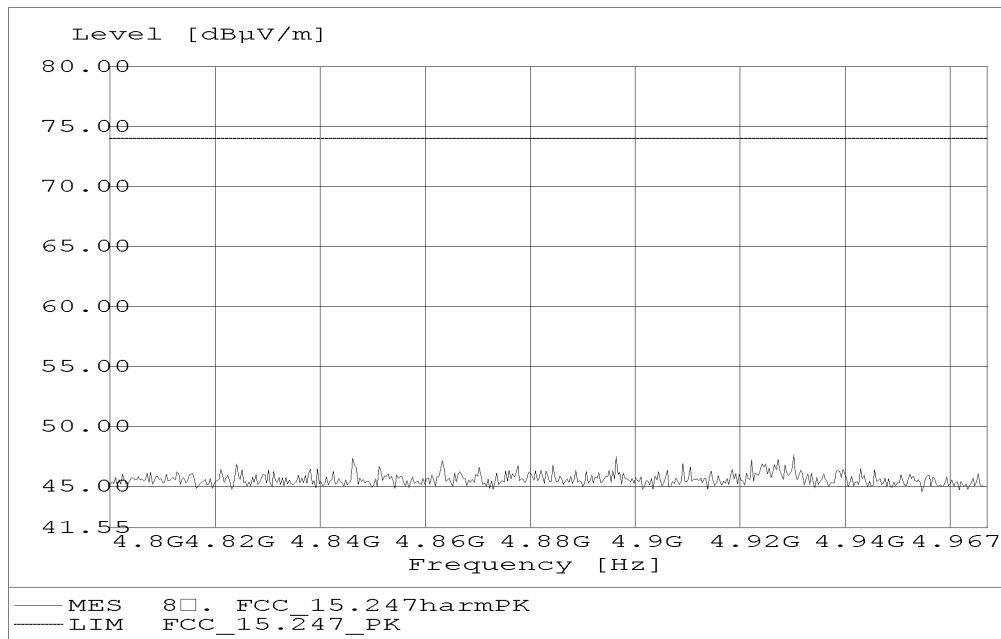


08.03.03 15:03 Overview / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 4.930GHz, Emax: 47.60dBuV/m, RBW: 1MHz

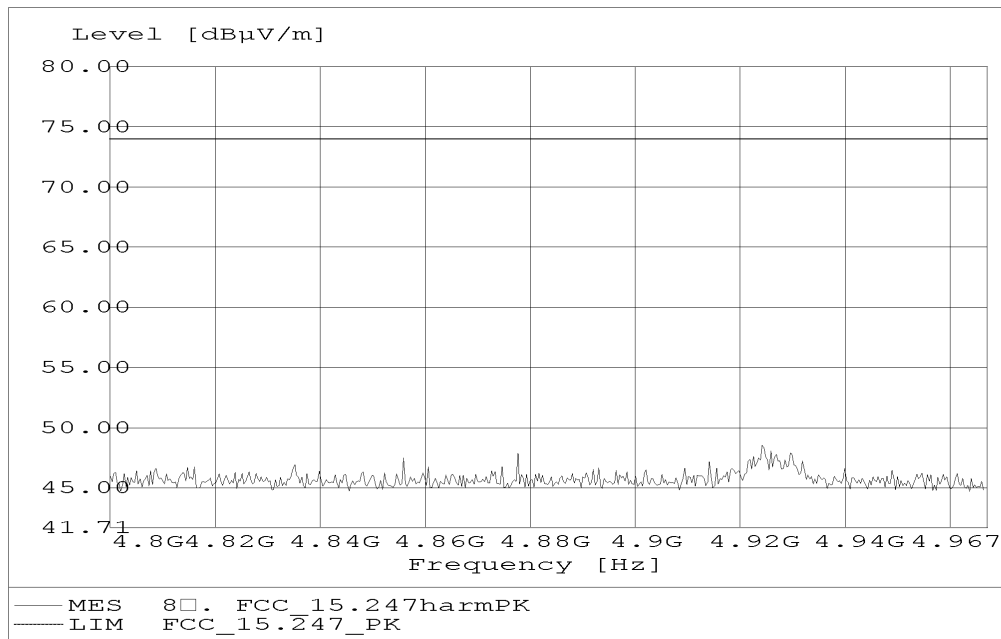


08.03.03 15:25 2nd Harmonic / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 4.924GHz, Emax: 48.56dBuV/m, RBW: 1MHz

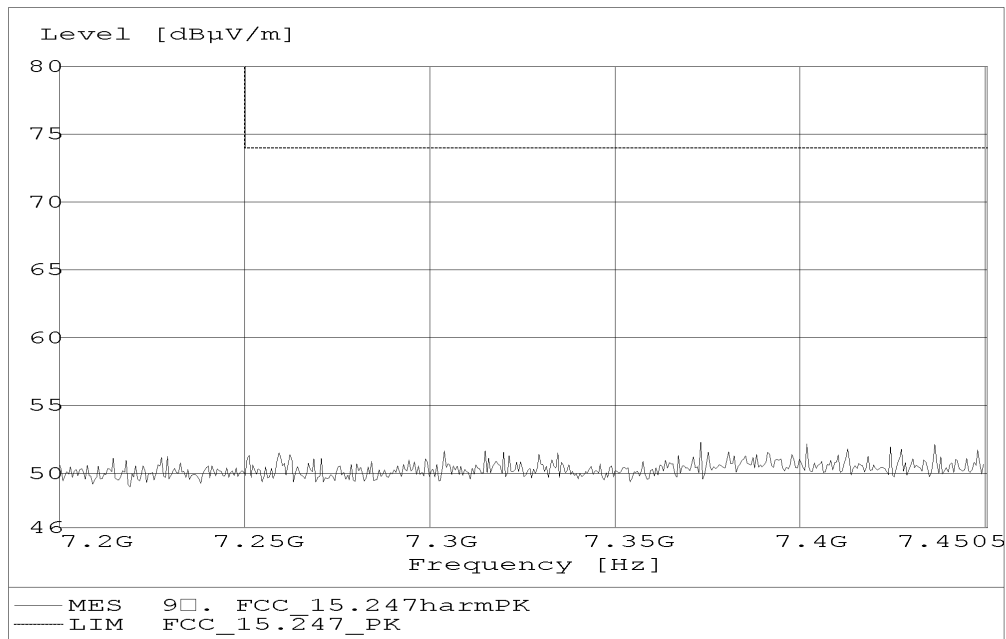


08.03.03 15:18 2nd Harmonic / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 7.373GHz, E_{max} : 52.29dB $\mu\text{V/m}$, RBW: 1MHz

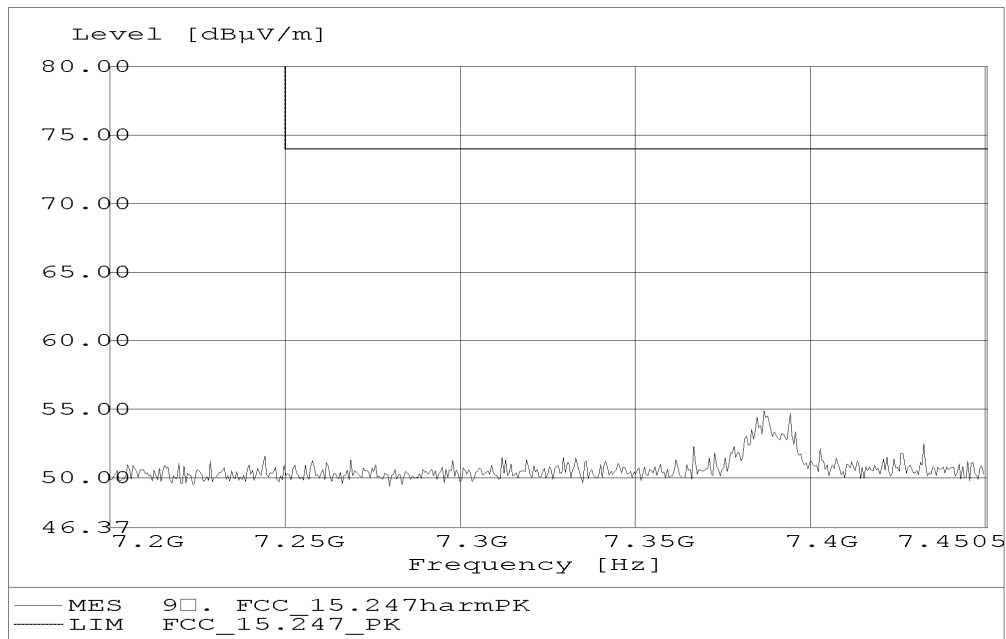


08.03.03 15:23 3rd Harmonic / Antenna horizontal

Registrationnumber : U0M20303-4887-E-16

Spurious Emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.35, Limit 20 dB up (peak detector)
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Start of Test: Freq: 7.387GHz, Emax: 54.87dBuV/m, RBW: 1MHz

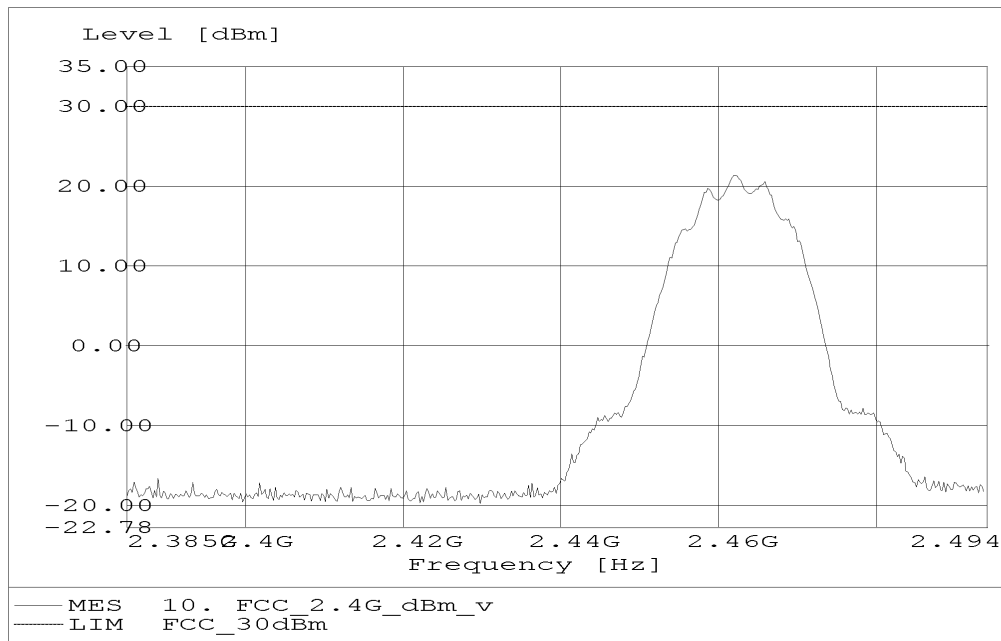


08.03.03 15:21 3rd Harmonic / Antenna vertical

Registrationnumber : U0M20303-4887-E-16

Radiated Maximum Peak Power
FCC RULES PART 15, SUBPART C

EUT/ Model: Firewall/Wireless LAN / Actiontec
Manufacturer : Sonicwall
Ch. 11
Operating Condition: t nom=23°C V nom=110V AC
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL025
Start of Test: Freq: 2.462GHz, Pmax: 21.34dBm, RBW: 5MHz



08.03.03 16:37 / Antenna vertical

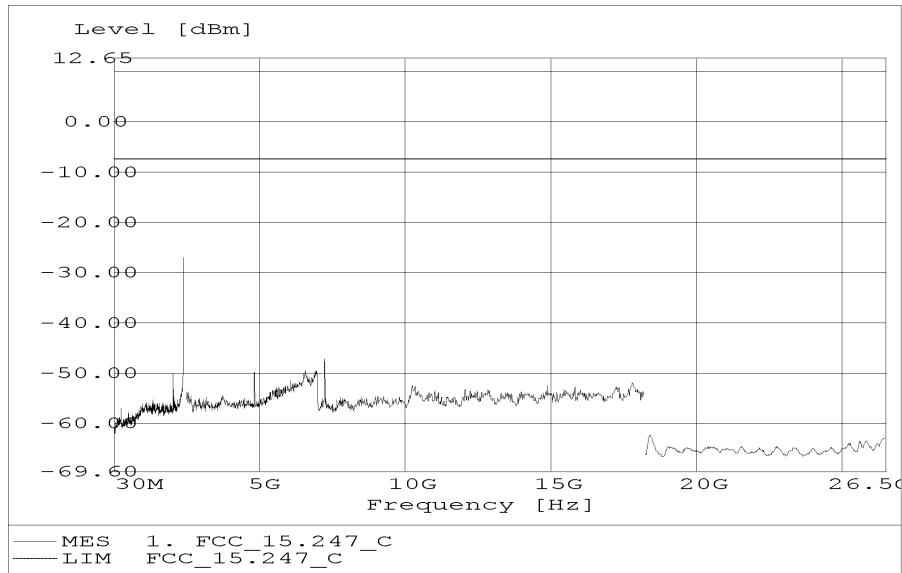
Registrationnumber : U0M20303-4887-E-16

Out of Band Radiated Emissions

FCC Rule: 15.247(c) conducted, worst case channel 1

Out-of-Band Conducted Spurious Emissions
FCC RULES PART 15 SUBPART C

EUT/ Model: Wireless LAN Radio / Actiontec
Manufacturer : Sonicwall
Ch. 1
Operating Condition: $t_{nom}=23^{\circ}\text{C}$ $V_{nom}=110\text{V AC}$
Test Site / Operator: ETS / Mr. Schultze
Test Specification: according to §15.247
Comment 1: power controlled, maximum power
Freq: 2.395GHz, Pmax: -26.95dBm, RBW: 100KHz

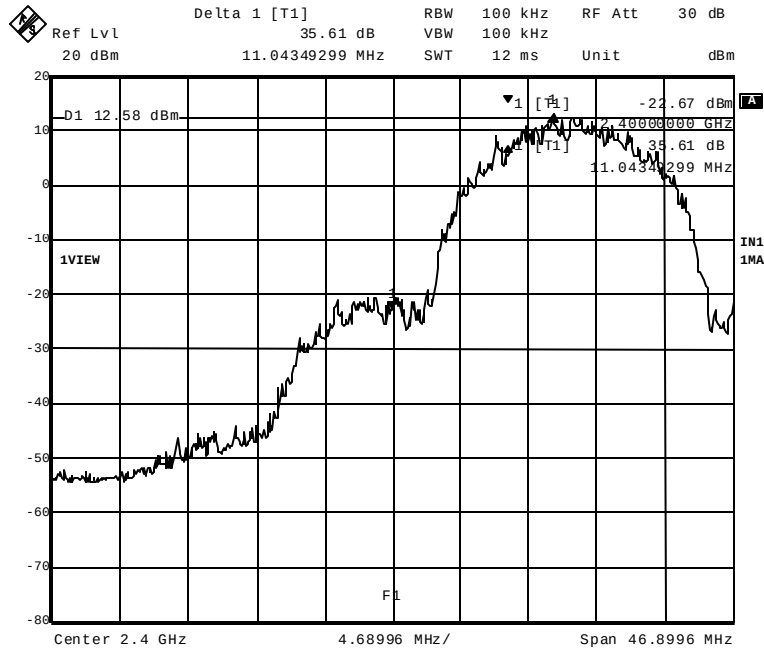


08.03.03 18:55 Overview

Registrationnumber : U0M20303-4887-E-16

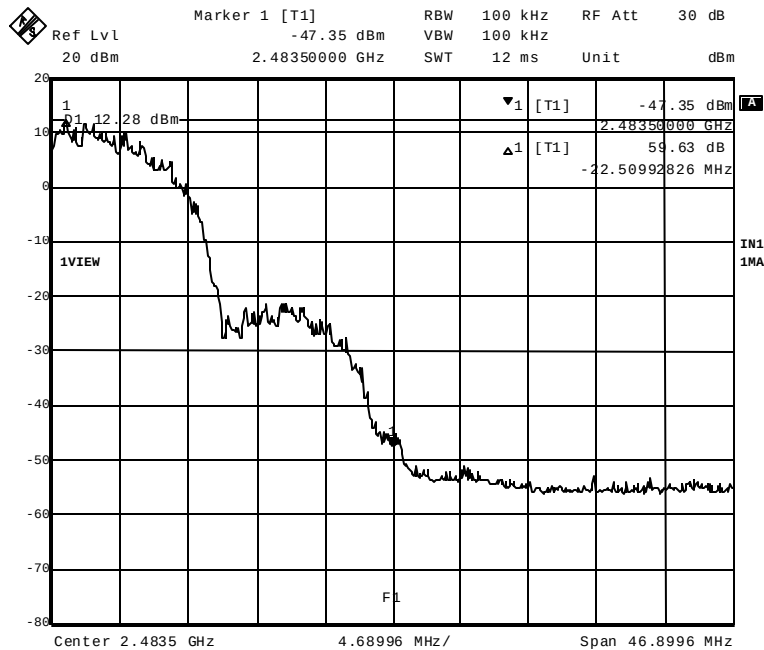
Band edges Mode DSSS CW

Channel 1



Date: 27.FEB.2003 19:32:14

Channel 11



Date: 27.FEB.2003 19:27:53

Registrationnumber : U0M20303-4887-E-16