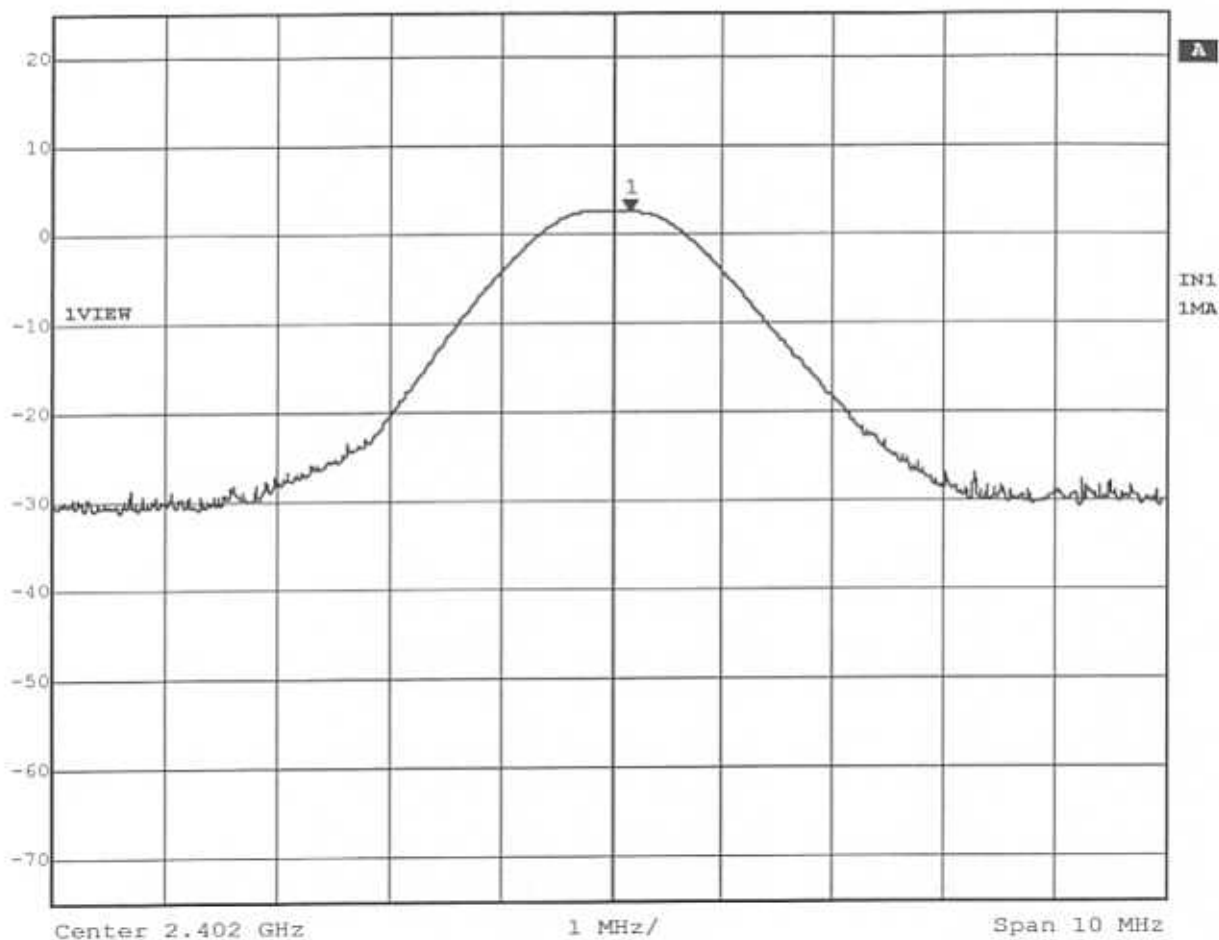


Appendix B

Peak Output Power



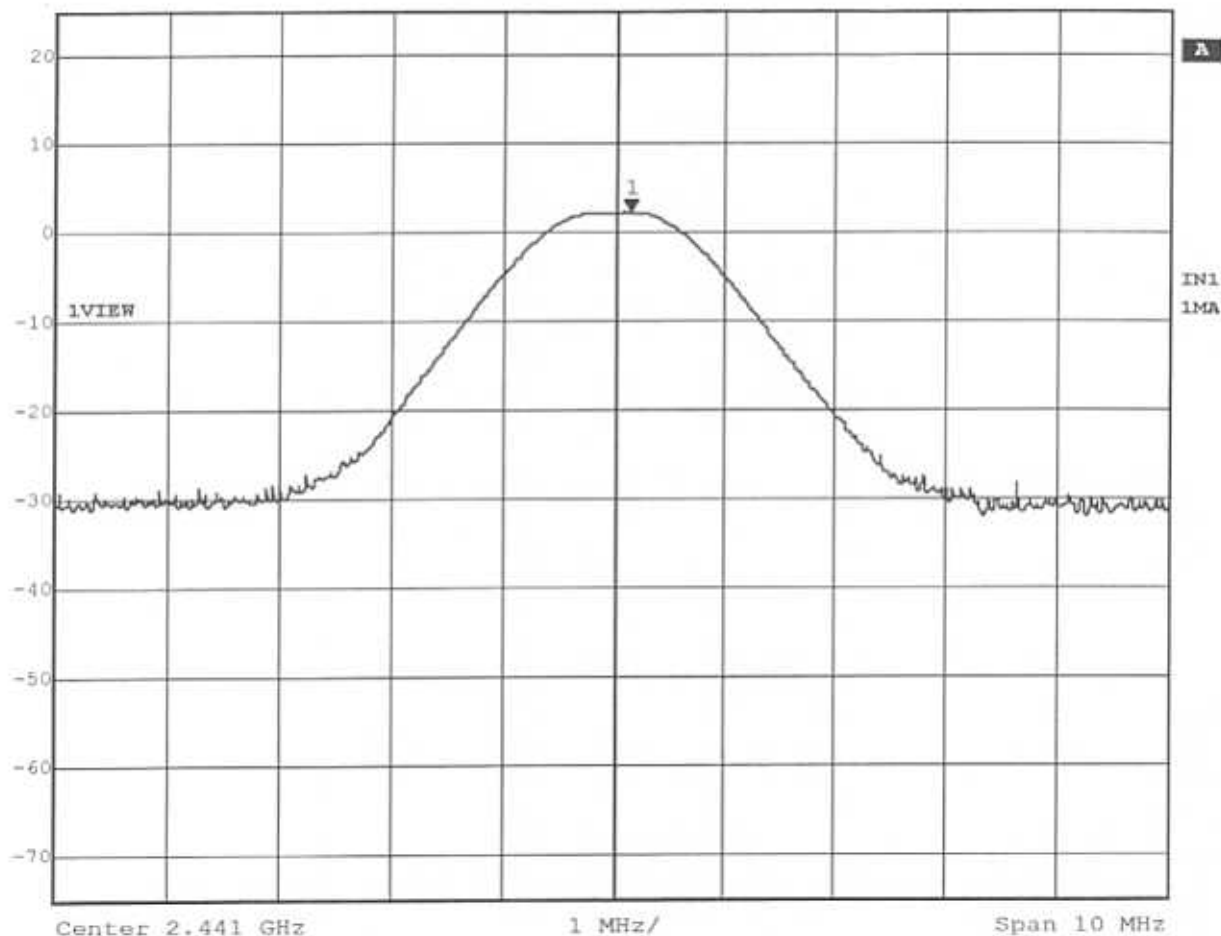
Ref Lvl	2.42 dBm	RBW	1 MHz	RF Att	50 dB
25 dBm	2.40217034 GHz	VBW	1 MHz	Unit	dBm
		SWT	5 ms		



Title: Peak Output Power Ch.: 0
Comment A: Brain Boxes Limited USB Bluetooth Adaptor BL-554
Date: 16.JUL.2002 08:48:25



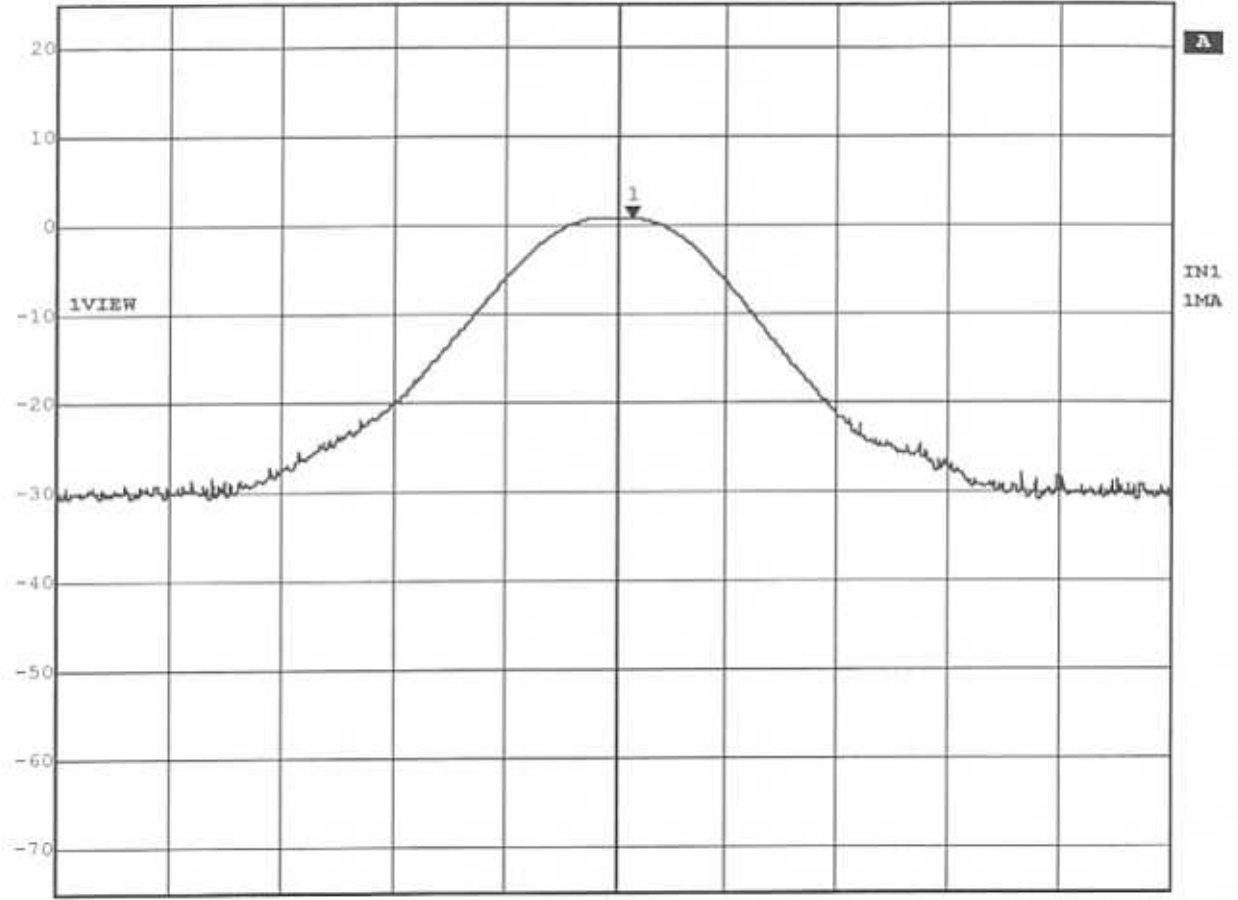
Marker 1 [T1] RBW 1 MHz RF Att 50 dB
Ref Lvl 2.02 dBm VBW 1 MHz
25 dBm 2.44115030 GHz SWT 5 ms Unit dBm



Title: Peak Output Power Ch.: 39
Comment A: Brain Boxes Limited USB Bluetooth Adaptor BL-554
Date: 16.JUL.2002 08:54:17



Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	50 dB
25 dBm	0.61 dBm	VBW	1 MHz		
	2.48015030 GHz	SWT	5 ms	Unit	dBm

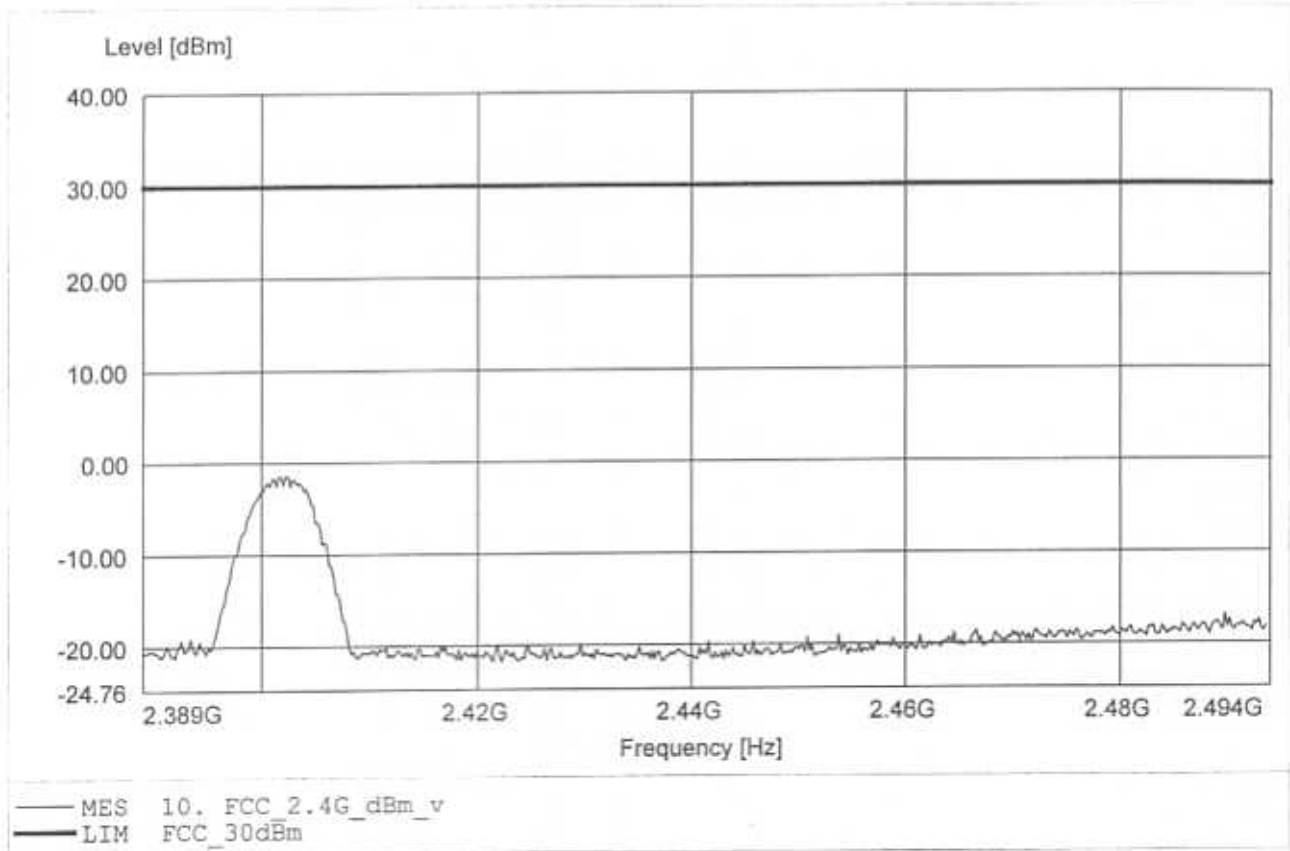


Center 2.48 GHz 1 MHz/ Span 10 MHz

Title: Peak Output Power Ch.: 78
Comment A: Brain Boxes Limited USB Bluetooth Adaptor BL-554
Date: 16.JUL.2002 08:56:14

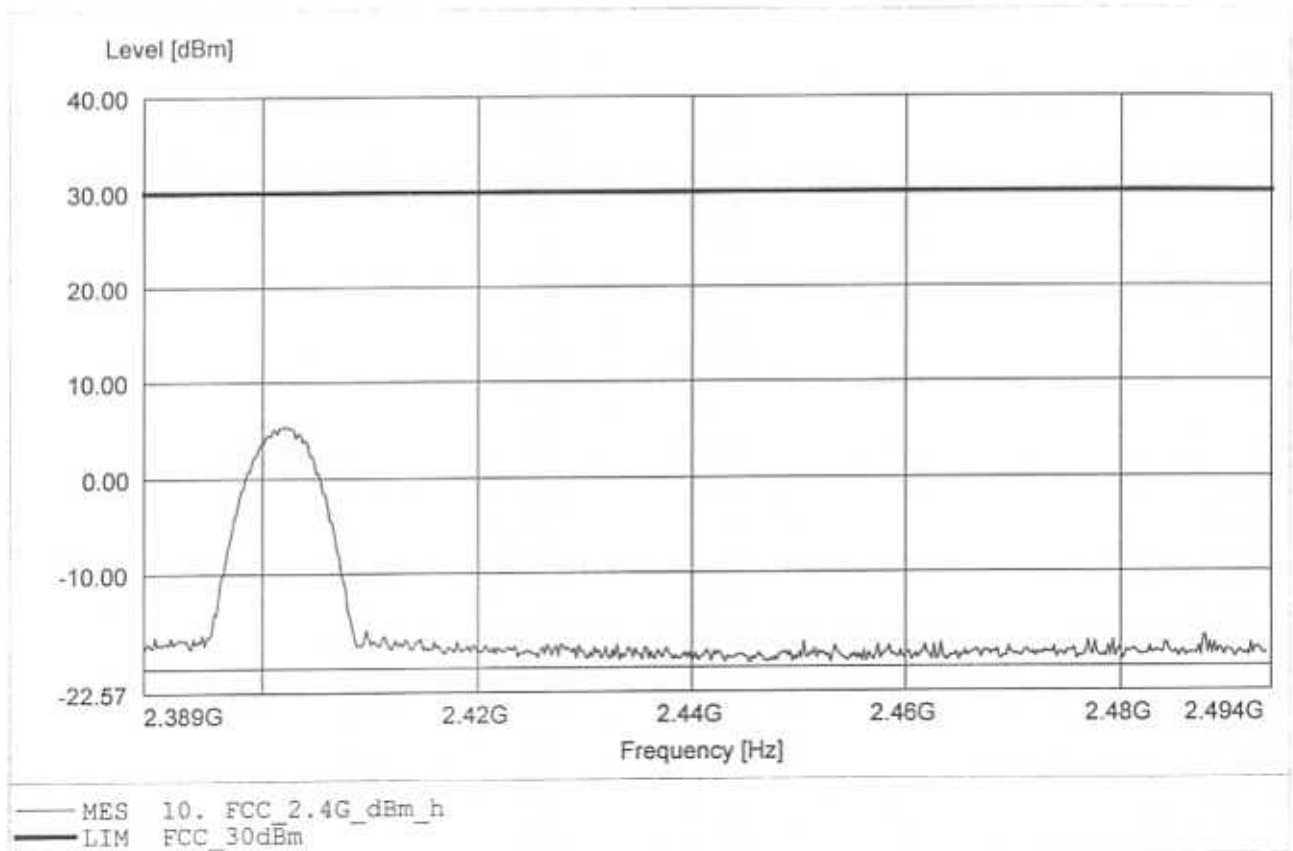
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: -1.41dBm, RBW: 5MHz



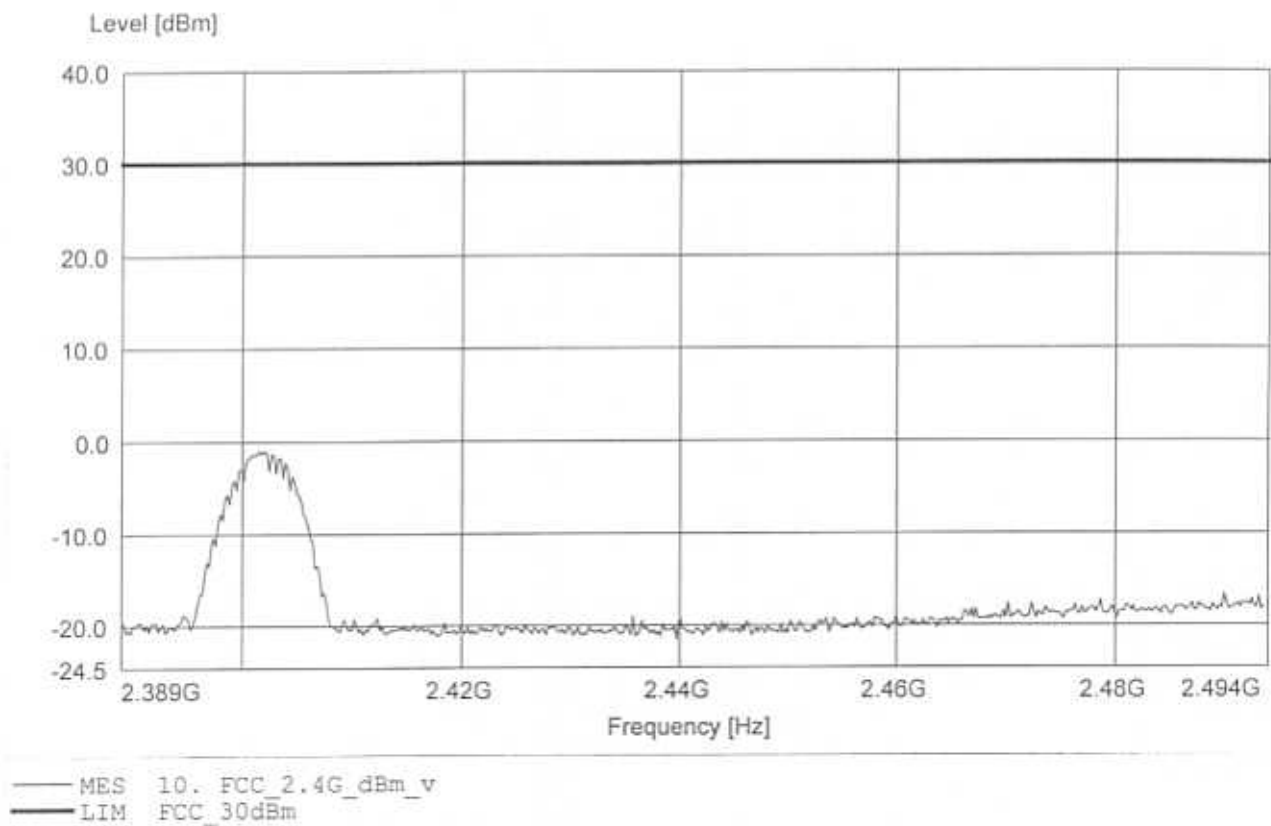
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: 5.37dBm, RBW: 5MHz



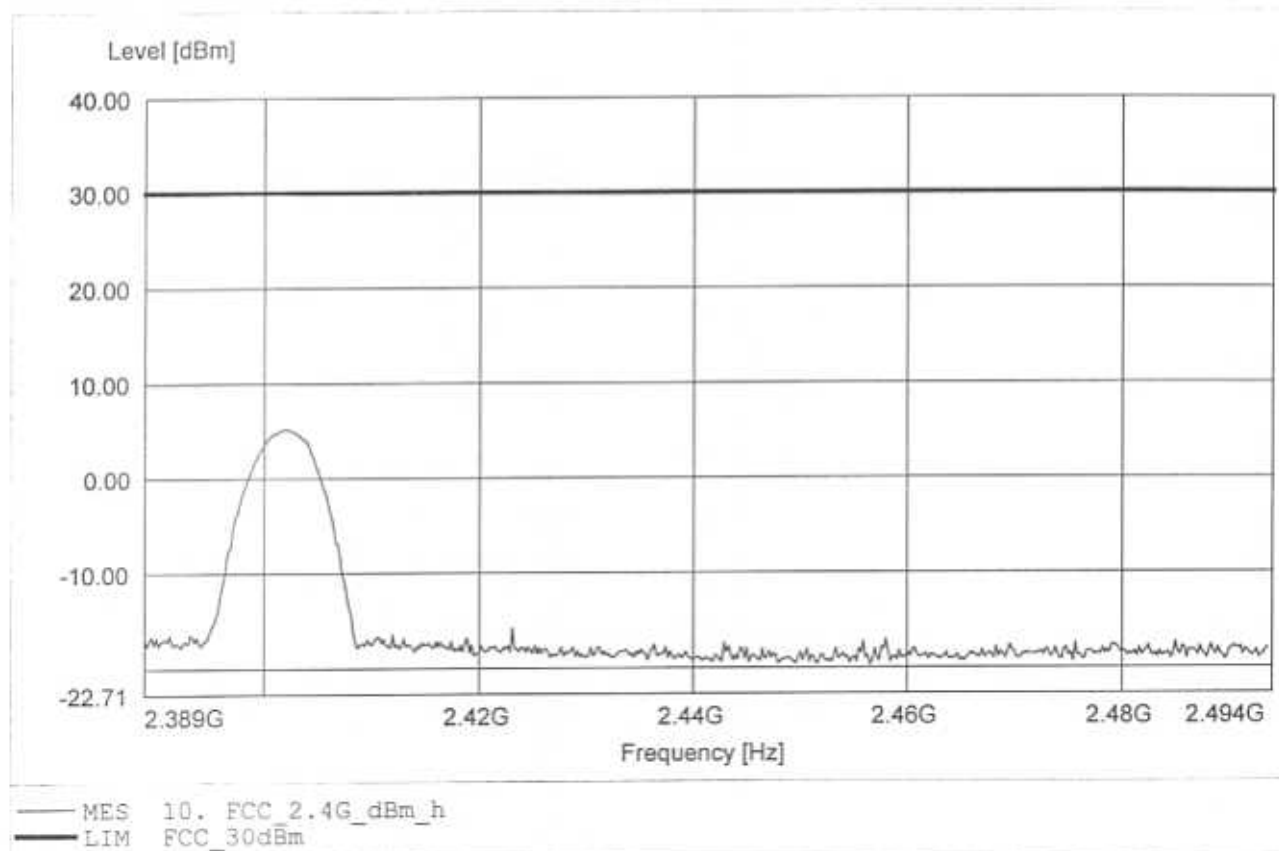
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V-15% AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: -0.92dBm, RBW: 5MHz



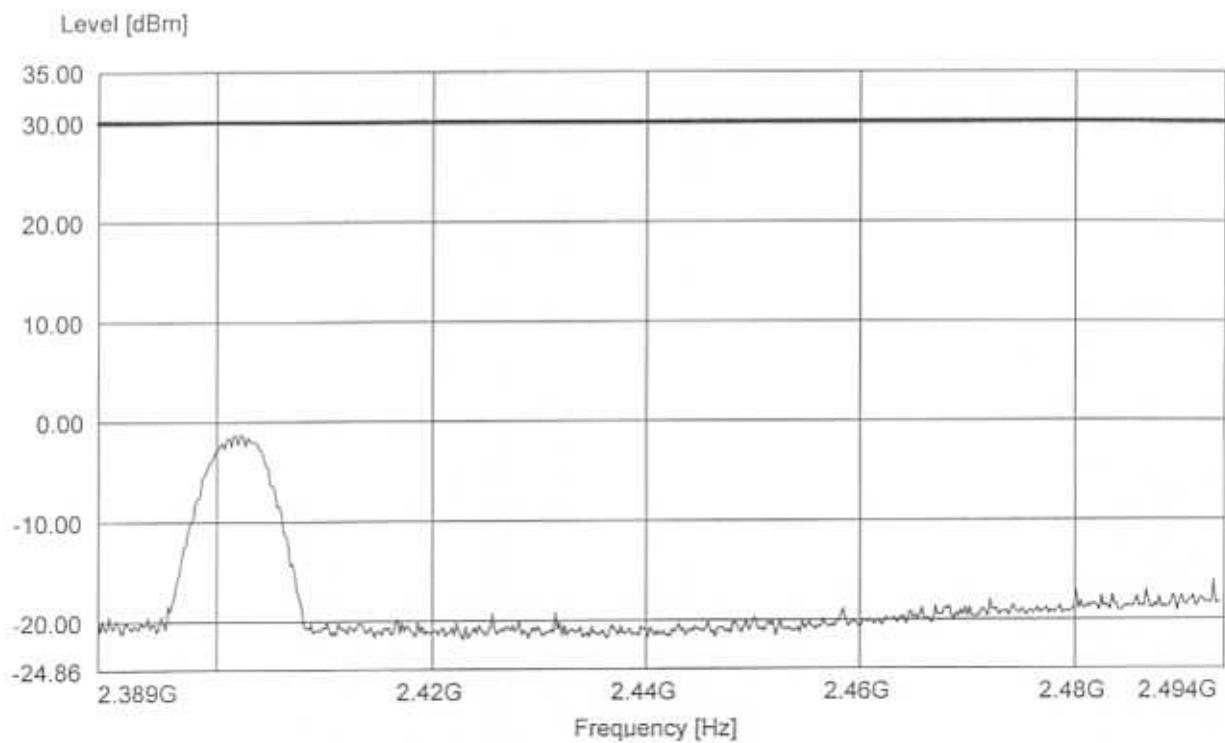
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V-15% AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: 5.13dBm, RBW: 5MHz



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

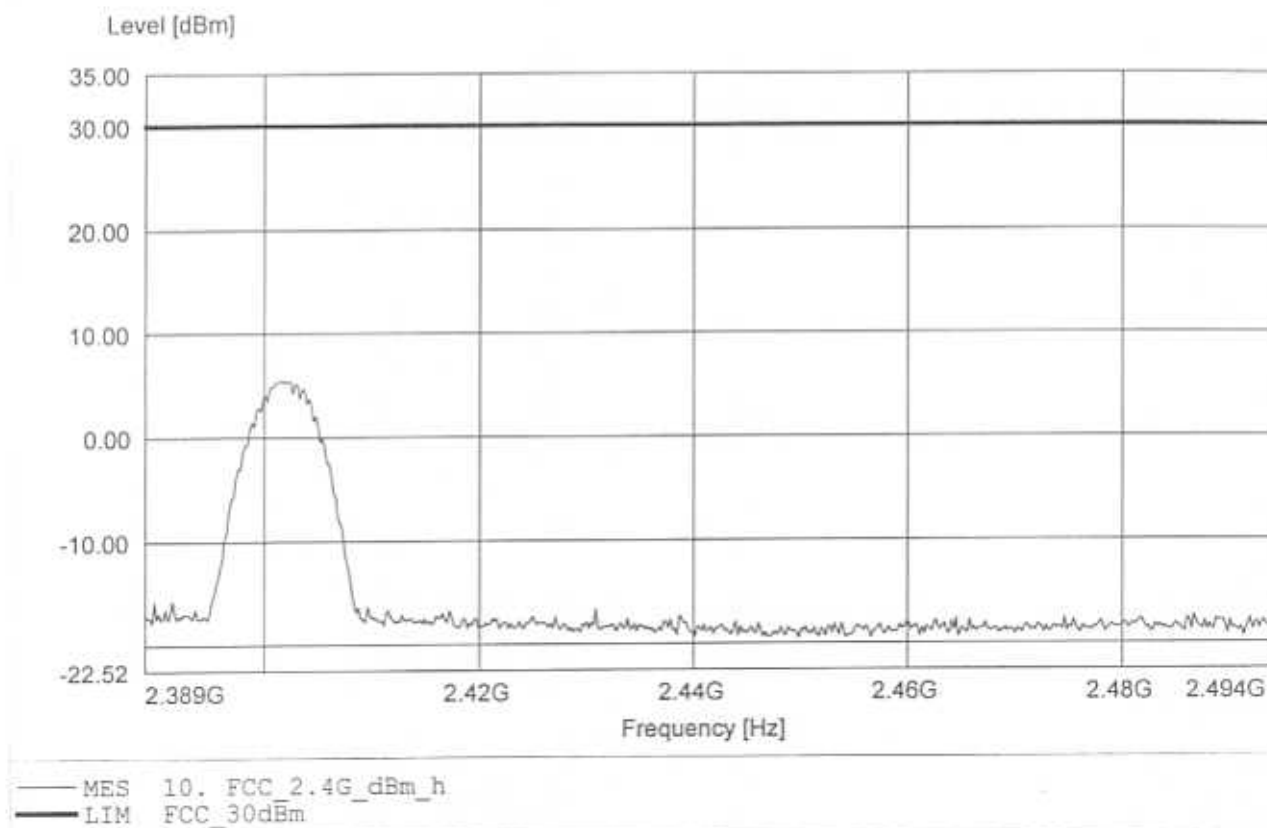
EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom: 23°C / Unom: 230 V+15% AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: -1.27dBm, RBW: 5MHz



— MES 10. FCC_2.4G_dBm_v
— LIM FCC_30dBm

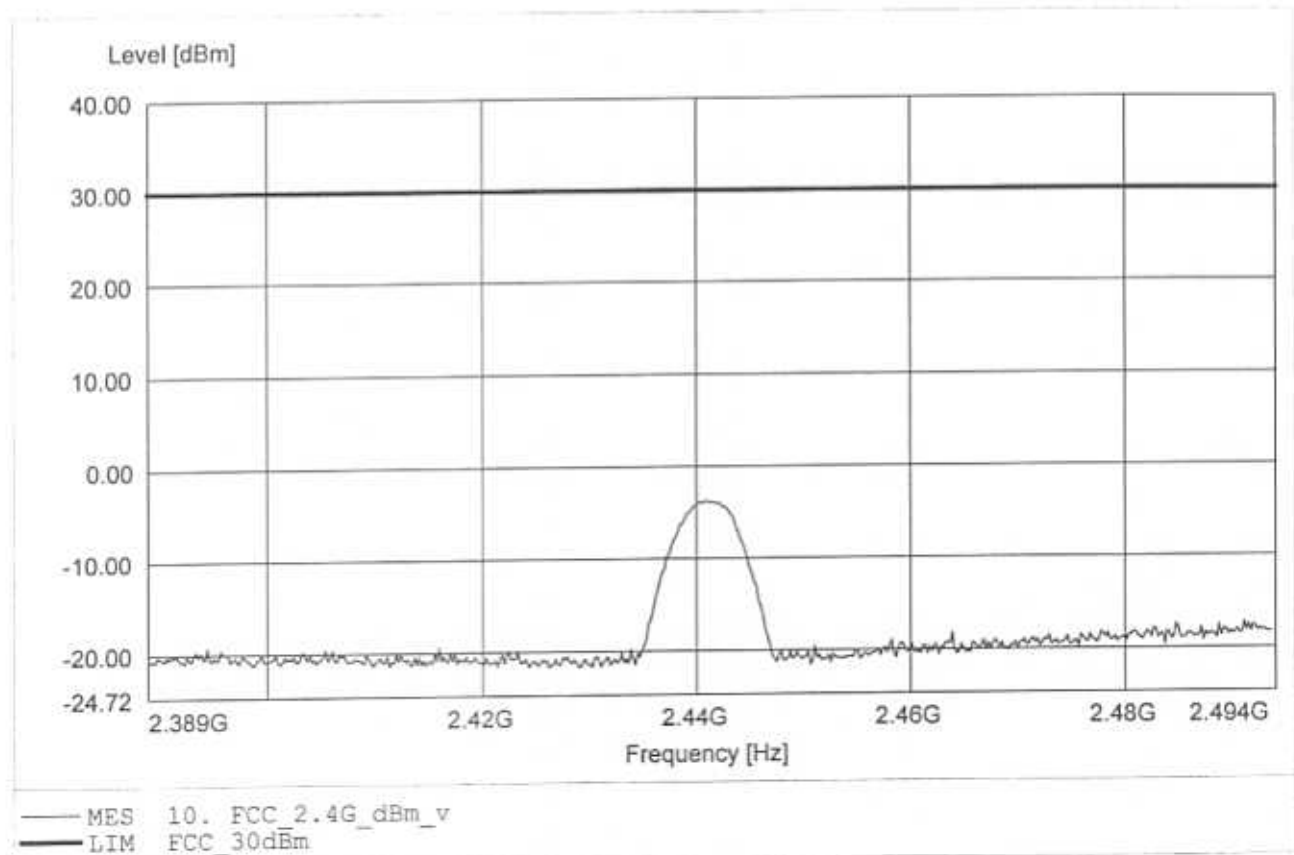
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V+15% AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.402GHz, Pmax: 5.44dBm, RBW: 5MHz



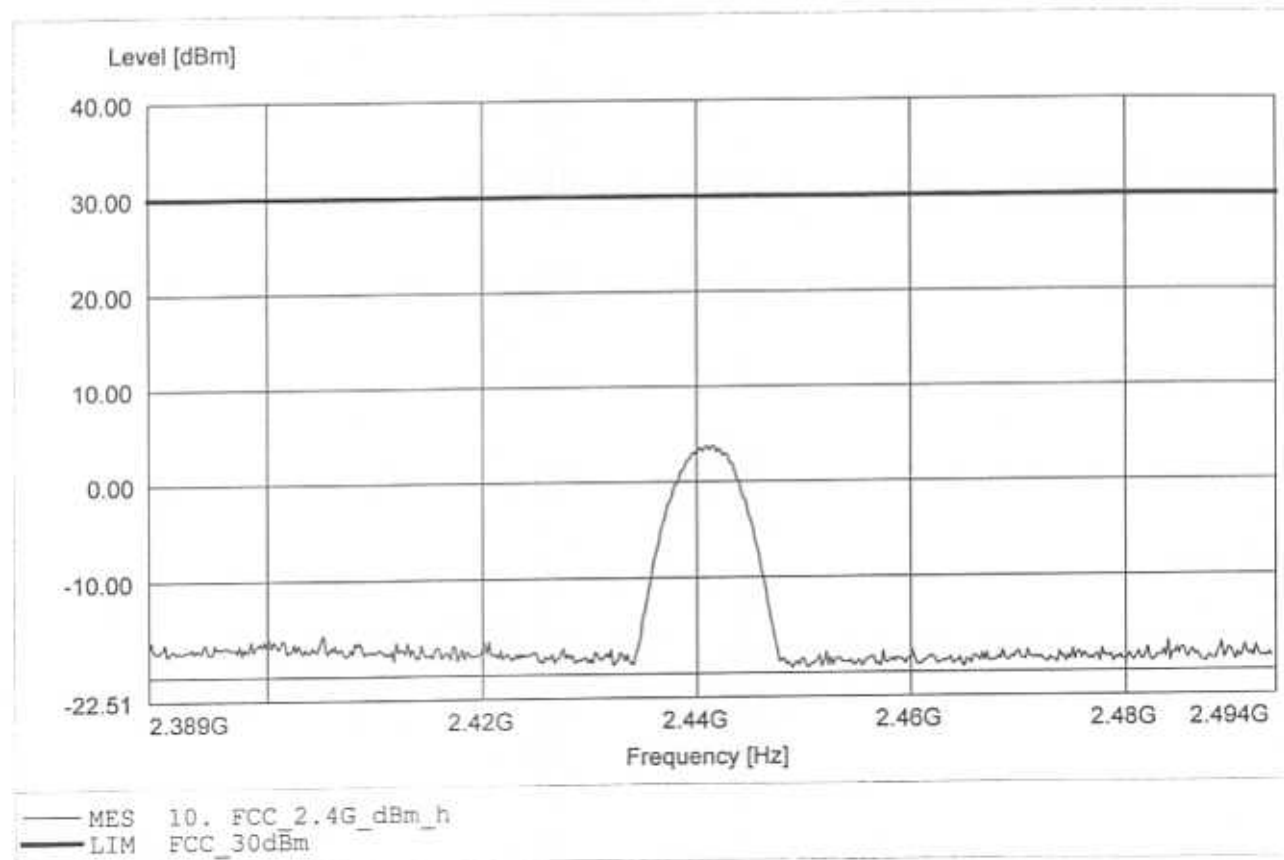
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Pmax: -3.75dBm, RBW: 5MHz



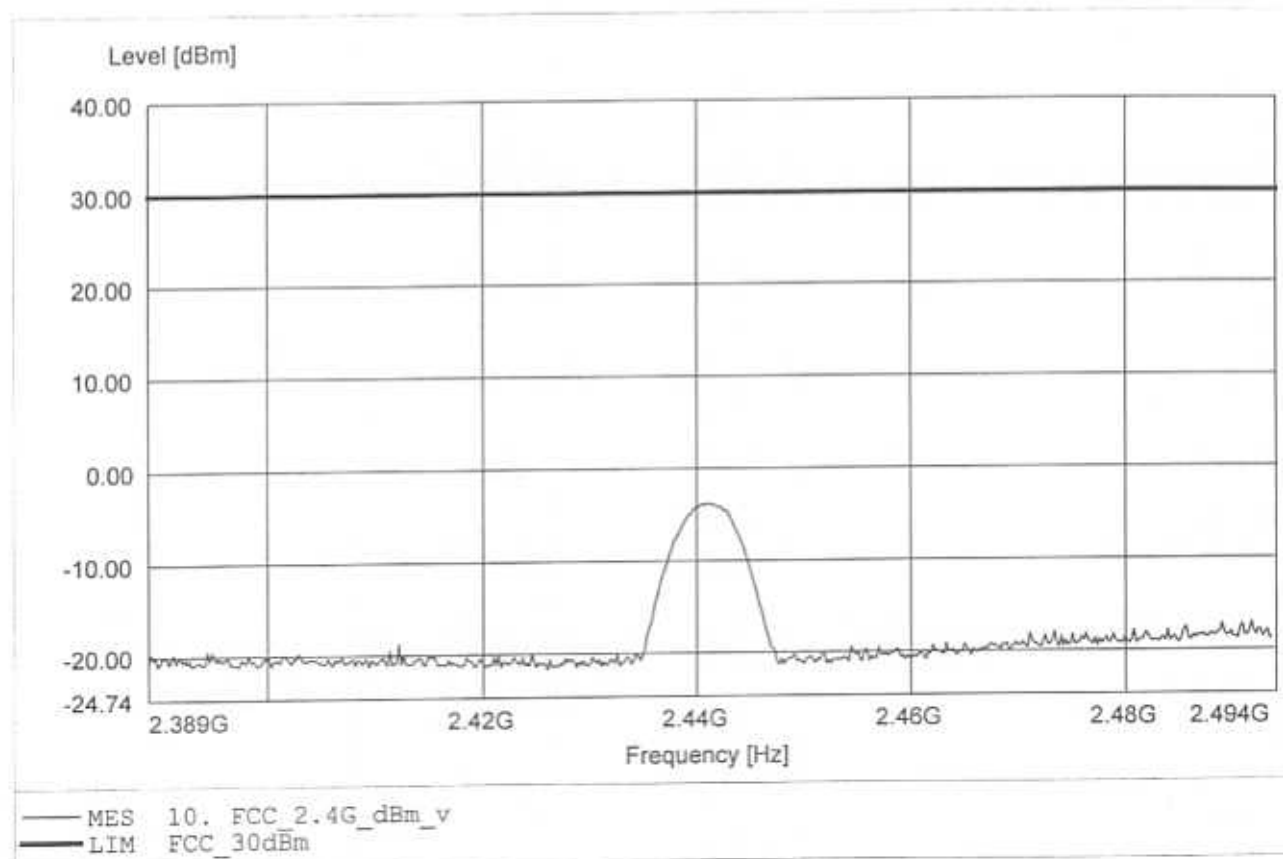
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.442GHz, Pmax: 3.77dBm, RBW: 5MHz



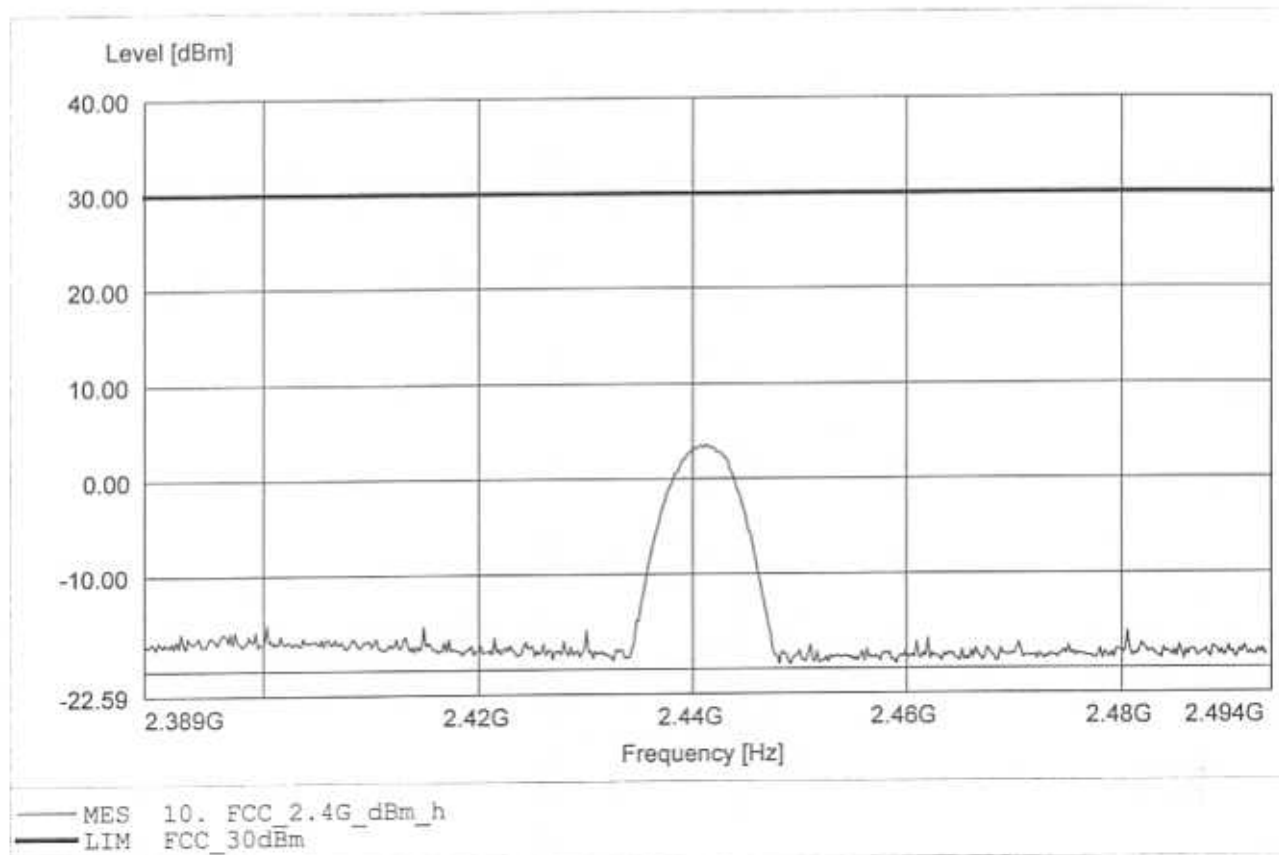
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V-15% AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Pmax: -3.75dBm, RBW: 5MHz



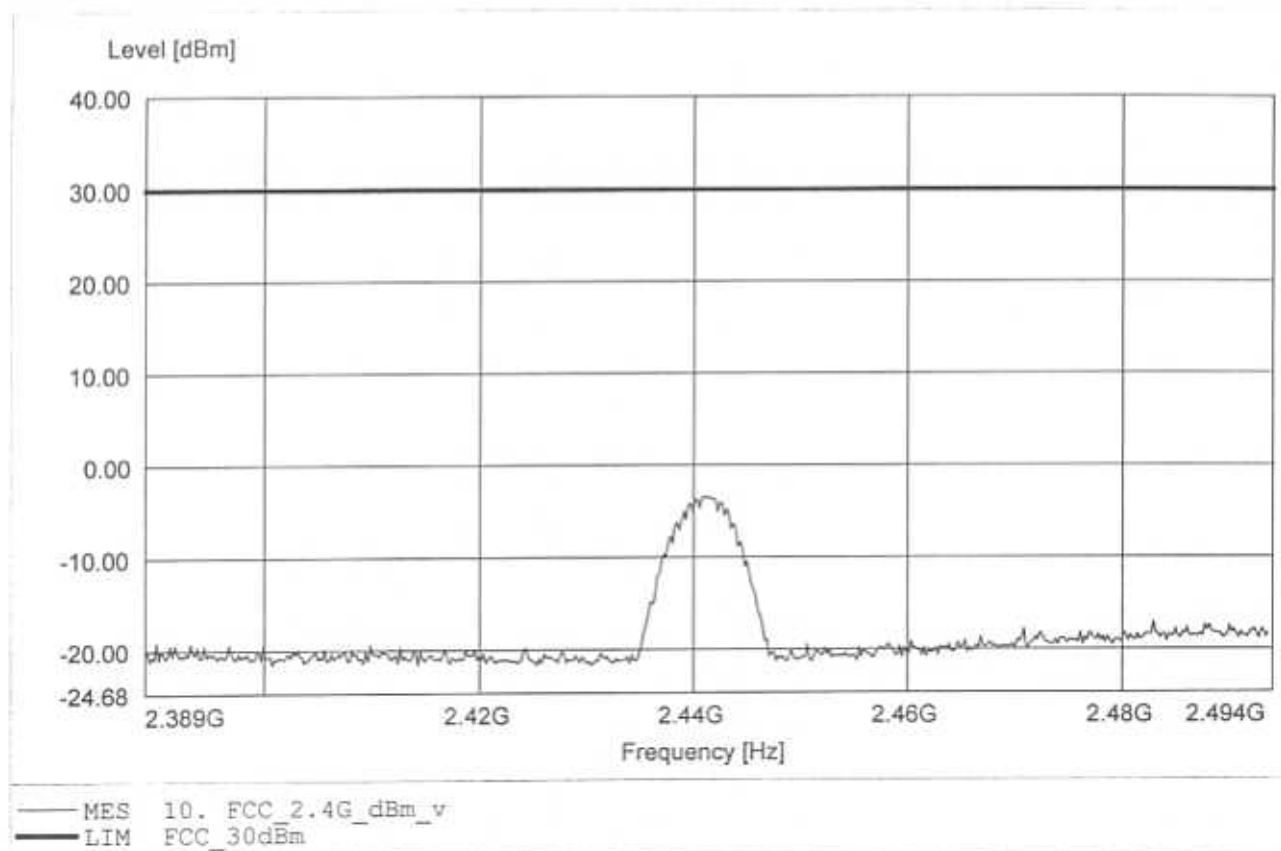
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V-15% AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Pmax: 3.54dBm, RBW: 5MHz



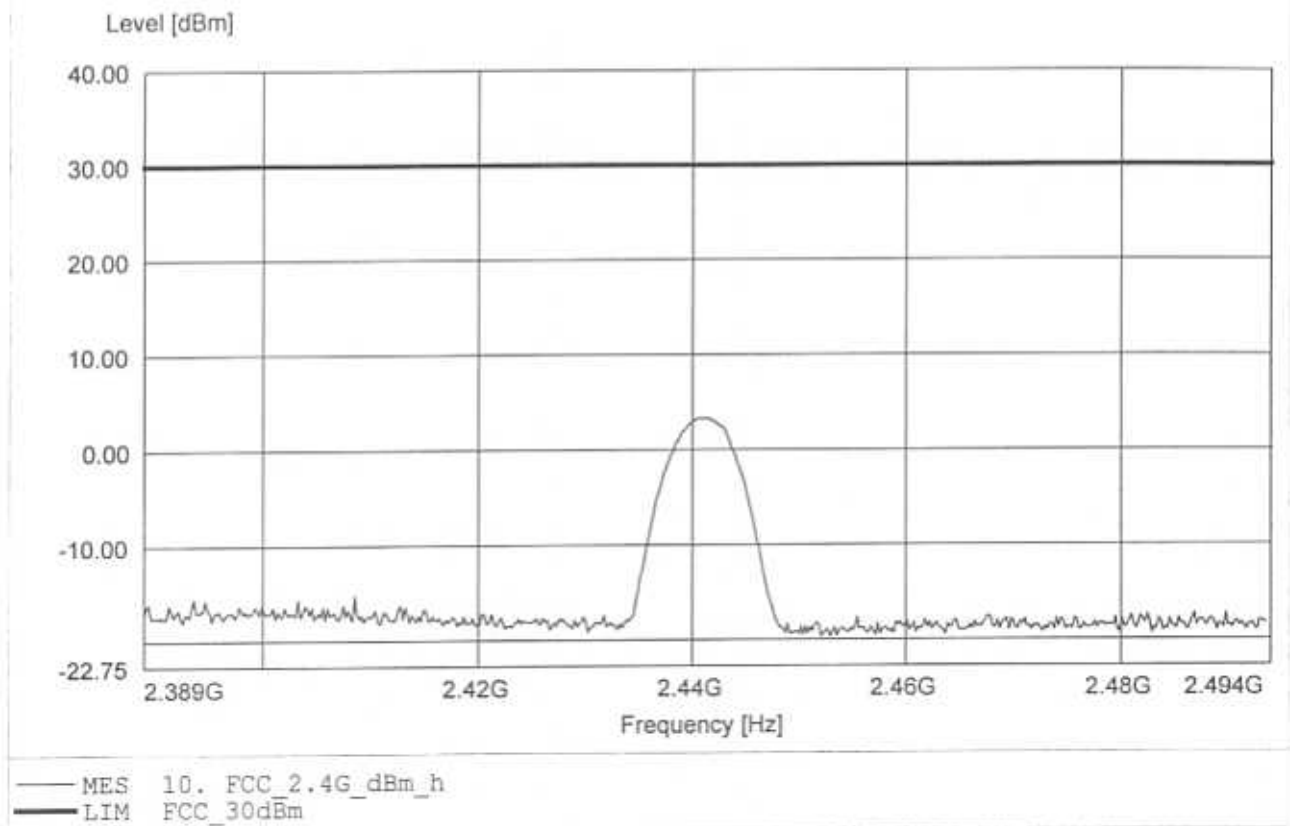
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V+15% AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA91200
Comment 2: Freq: 2.441GHz, Pmax: -3.43dBm, RBW: 5MHz



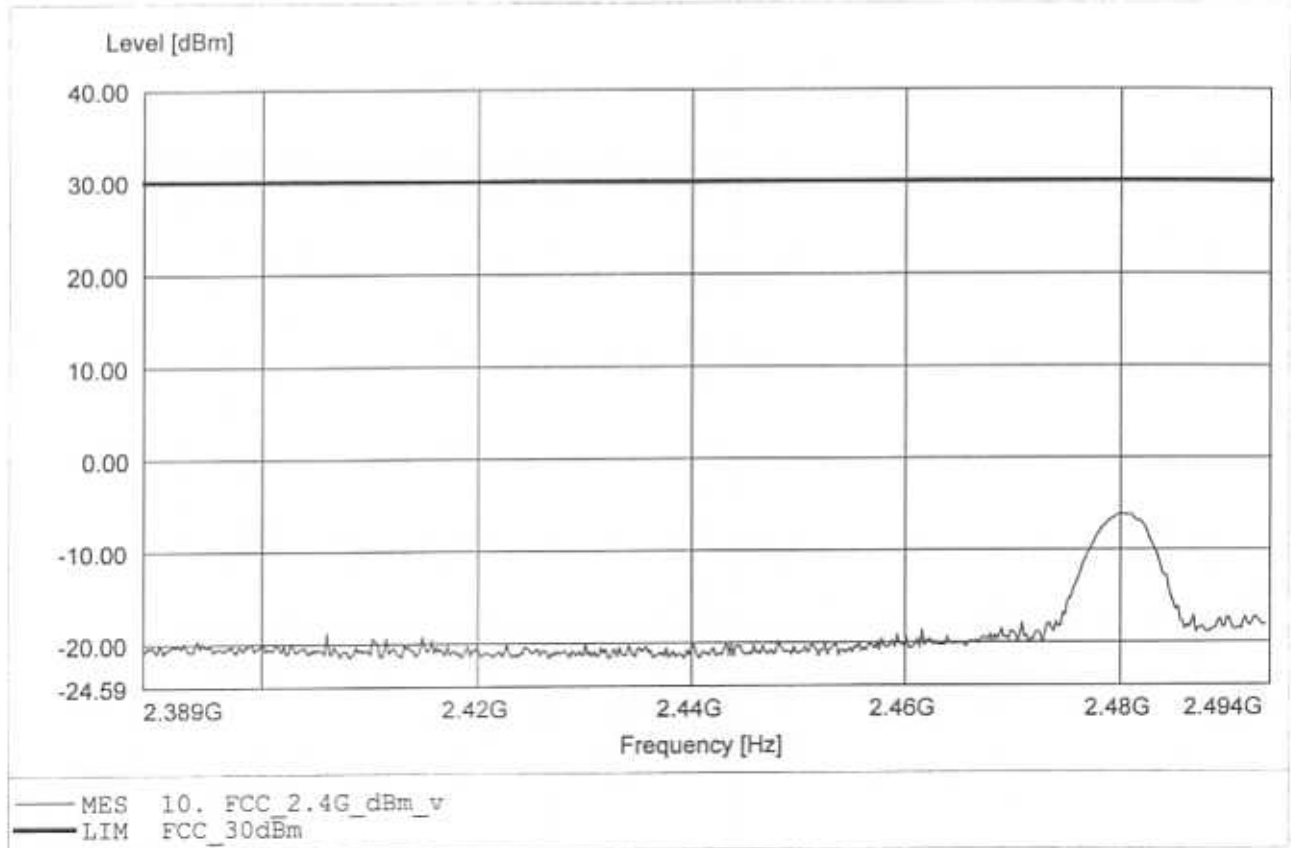
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V+15% AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.441GHz, Pmax: 3.29dBm, RBW: 5MHz



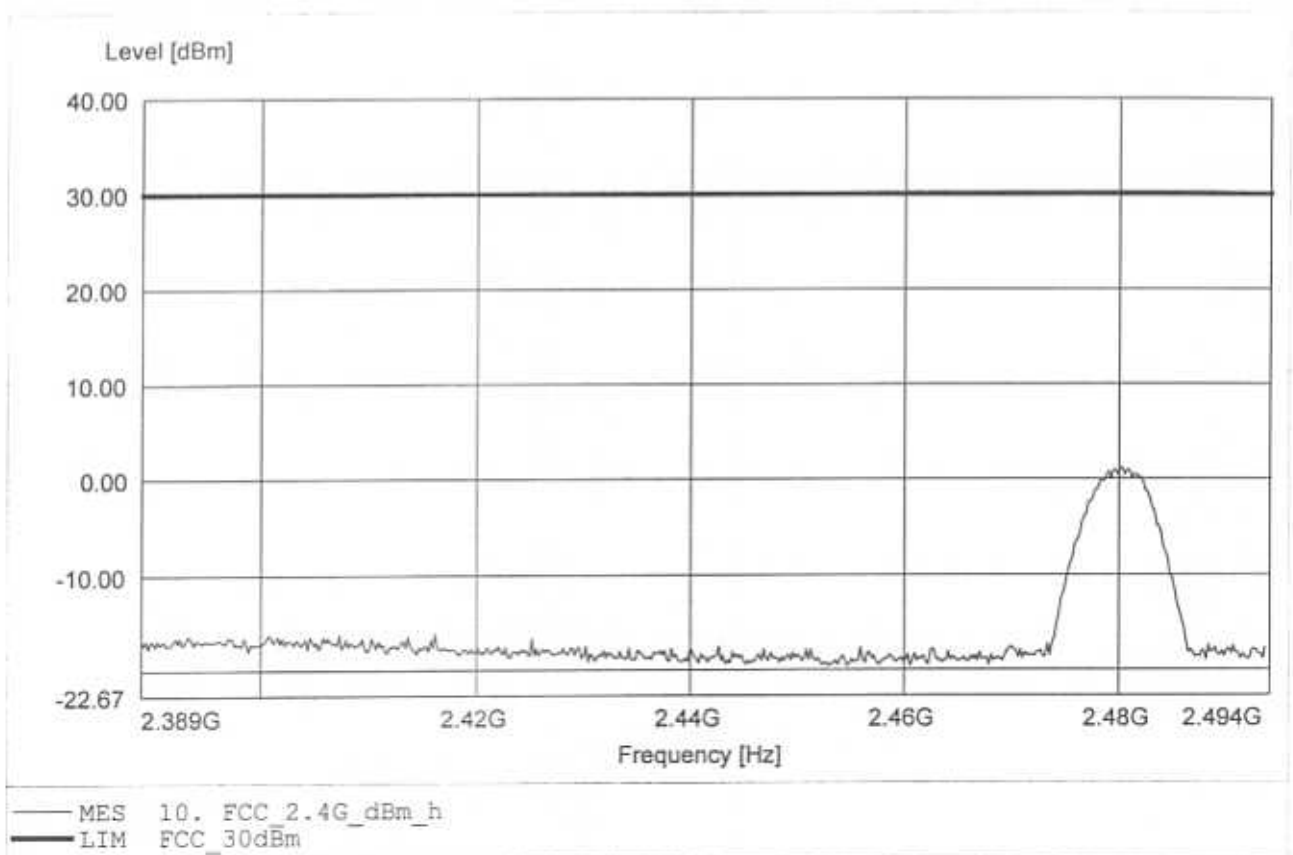
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom: 23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Pmax: -6.14dBm, RBW: 5MHz



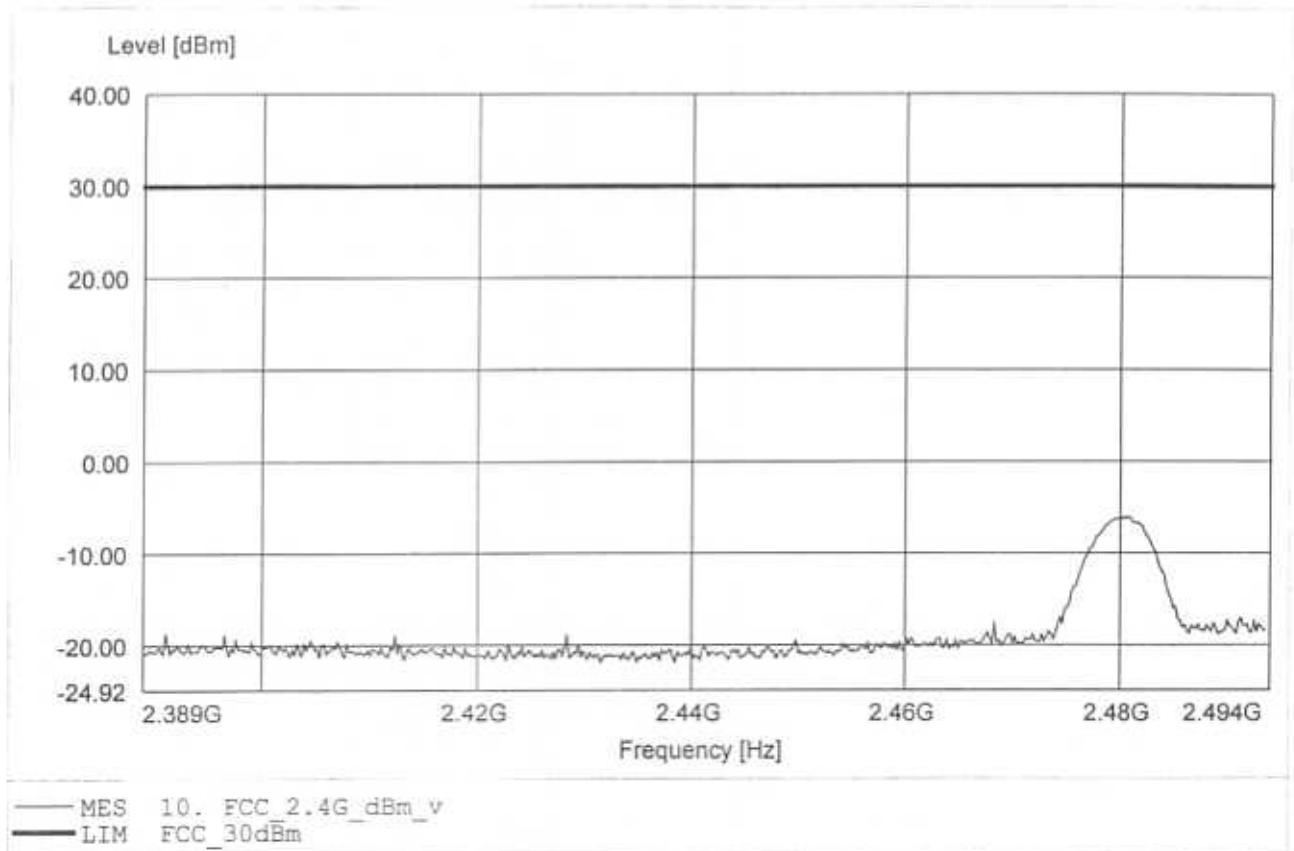
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Pmax: 1.21dBm, RBW: 5MHz



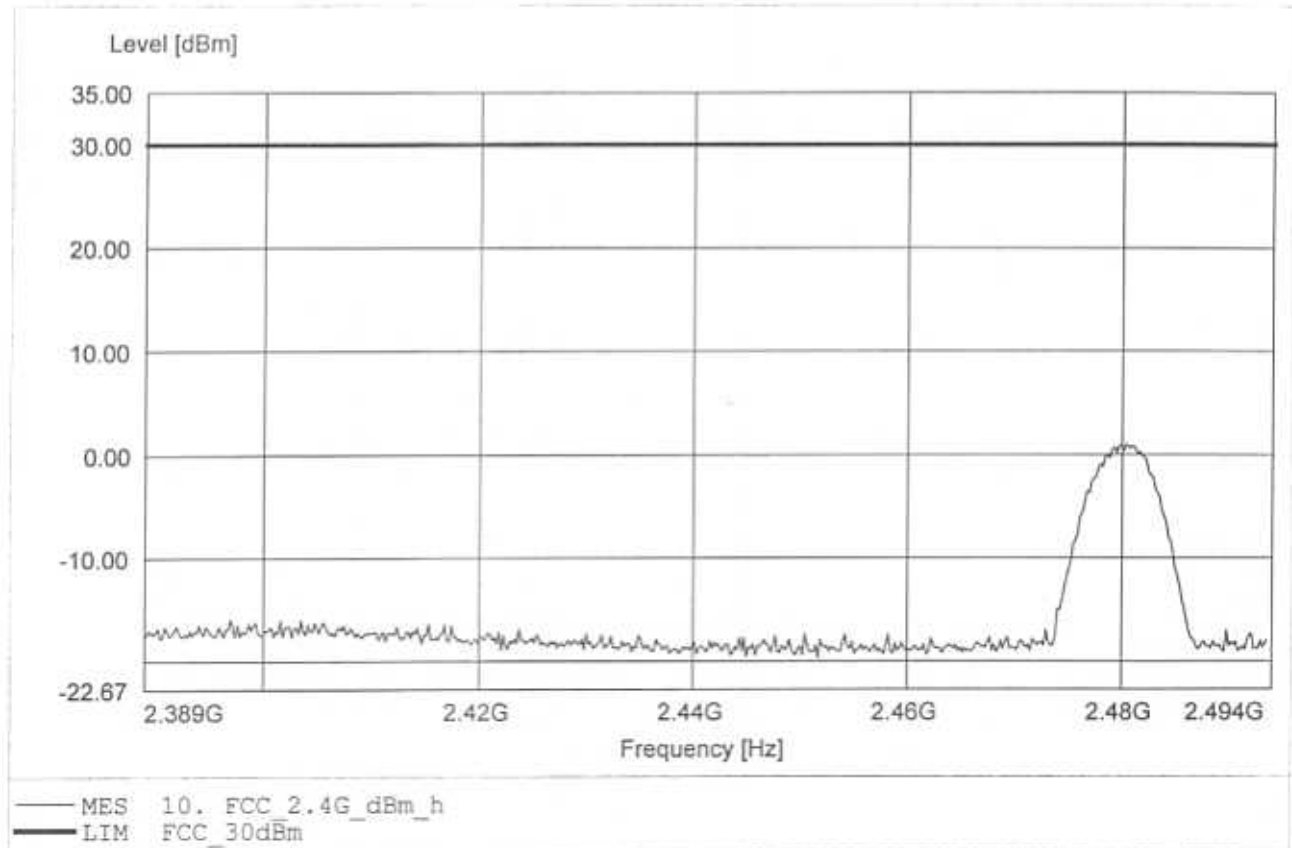
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V-15% AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.481GHz, Pmax: -6.06dBm, RBW: 5MHz



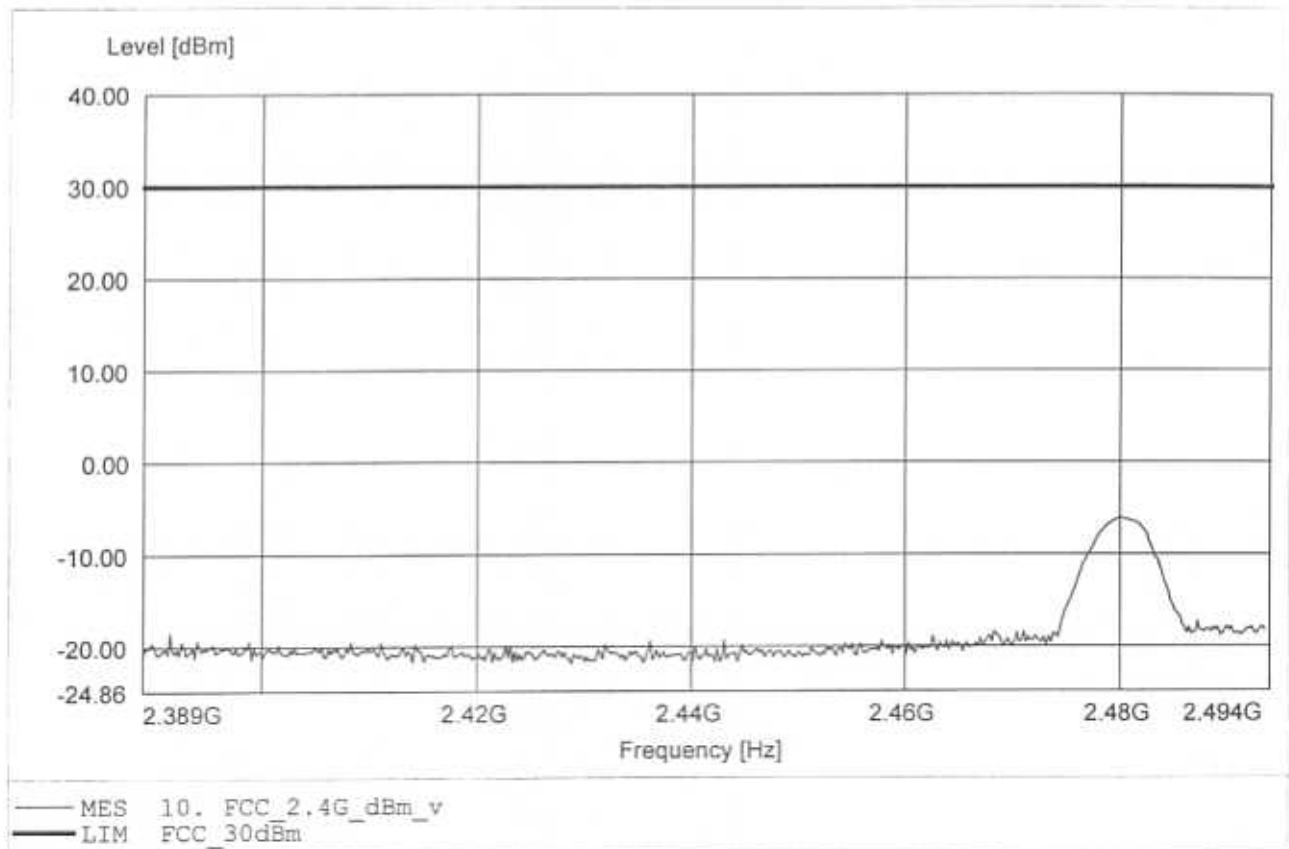
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V-15% AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Pmax: 0.93dBm, RBW: 5MHz



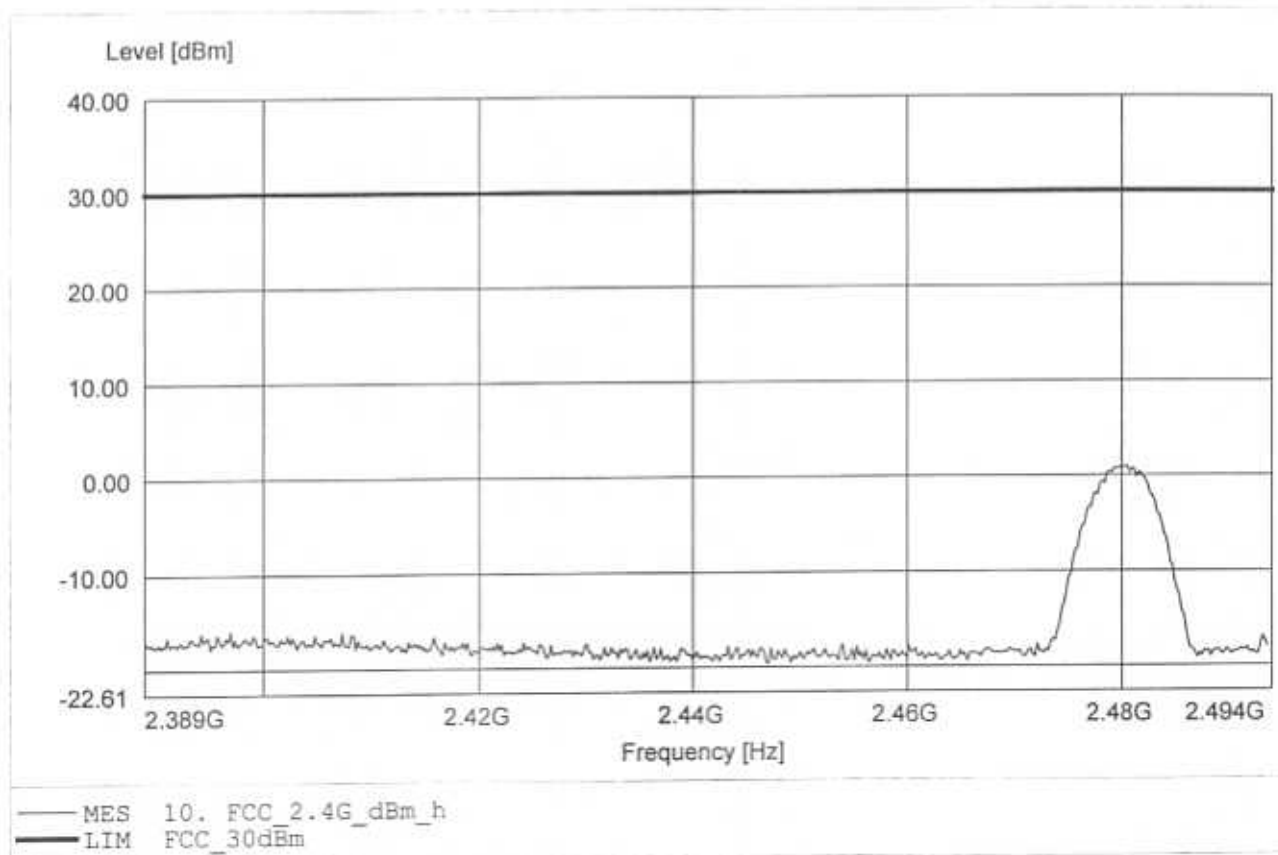
Carrier power (dBm)
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V+15% AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Pmax: -6.02dBm, RBW: 5MHz



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

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V+15% AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA9120D
Comment 2: Freq: 2.480GHz, Pmax: 0.93dBm, RBW: 5MHz

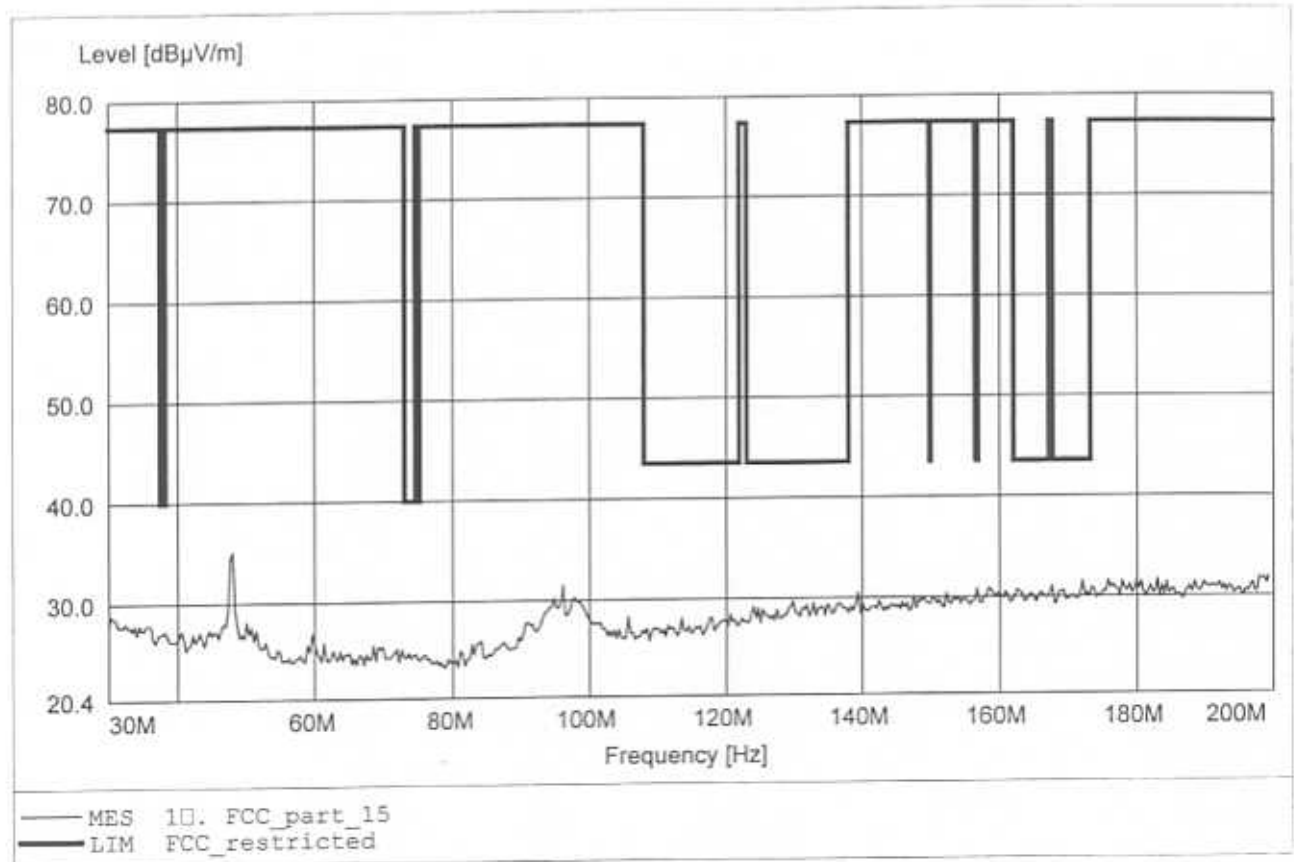


Appendix C

Spurious Emissions radiated - Transmitter operating

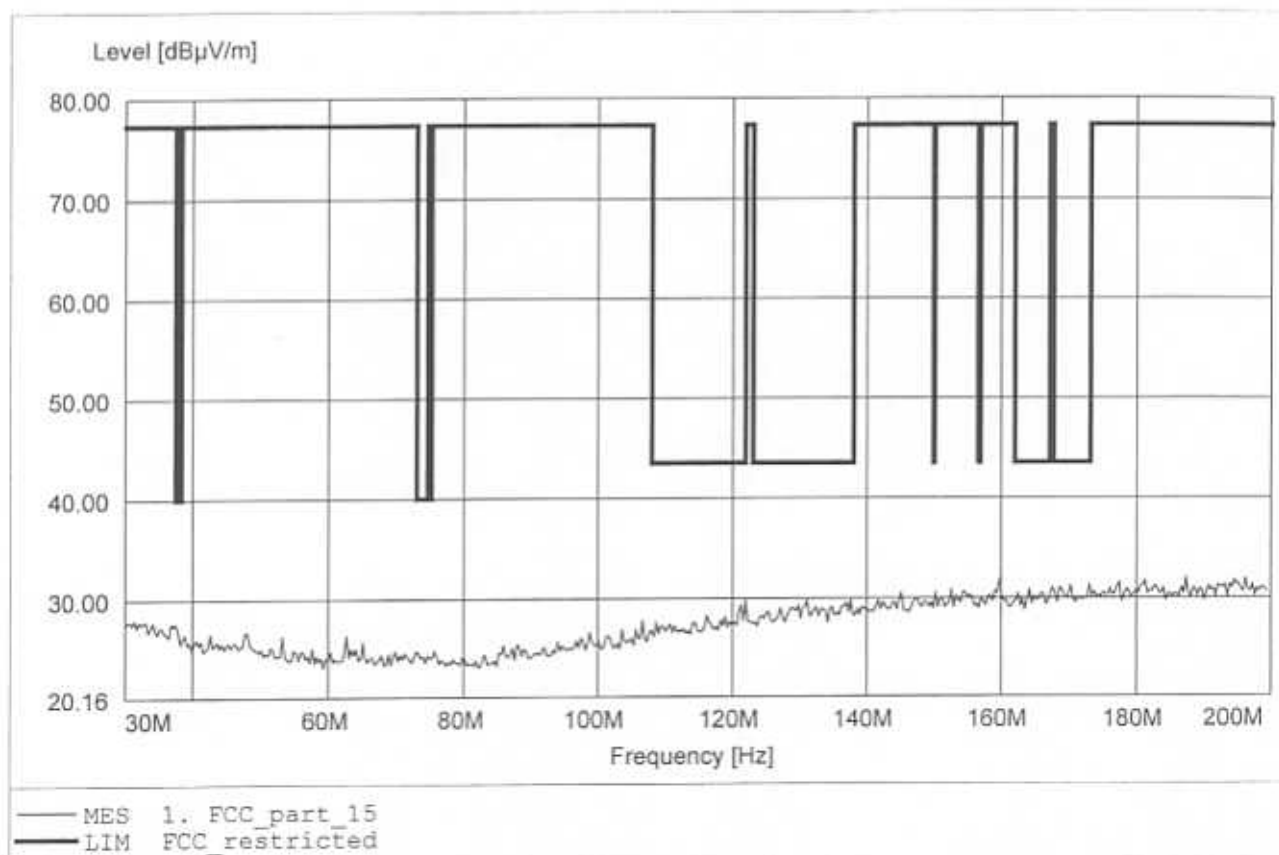
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 48.056MHz, Emax: 35.09dBµV/m, RBW: 100kHz



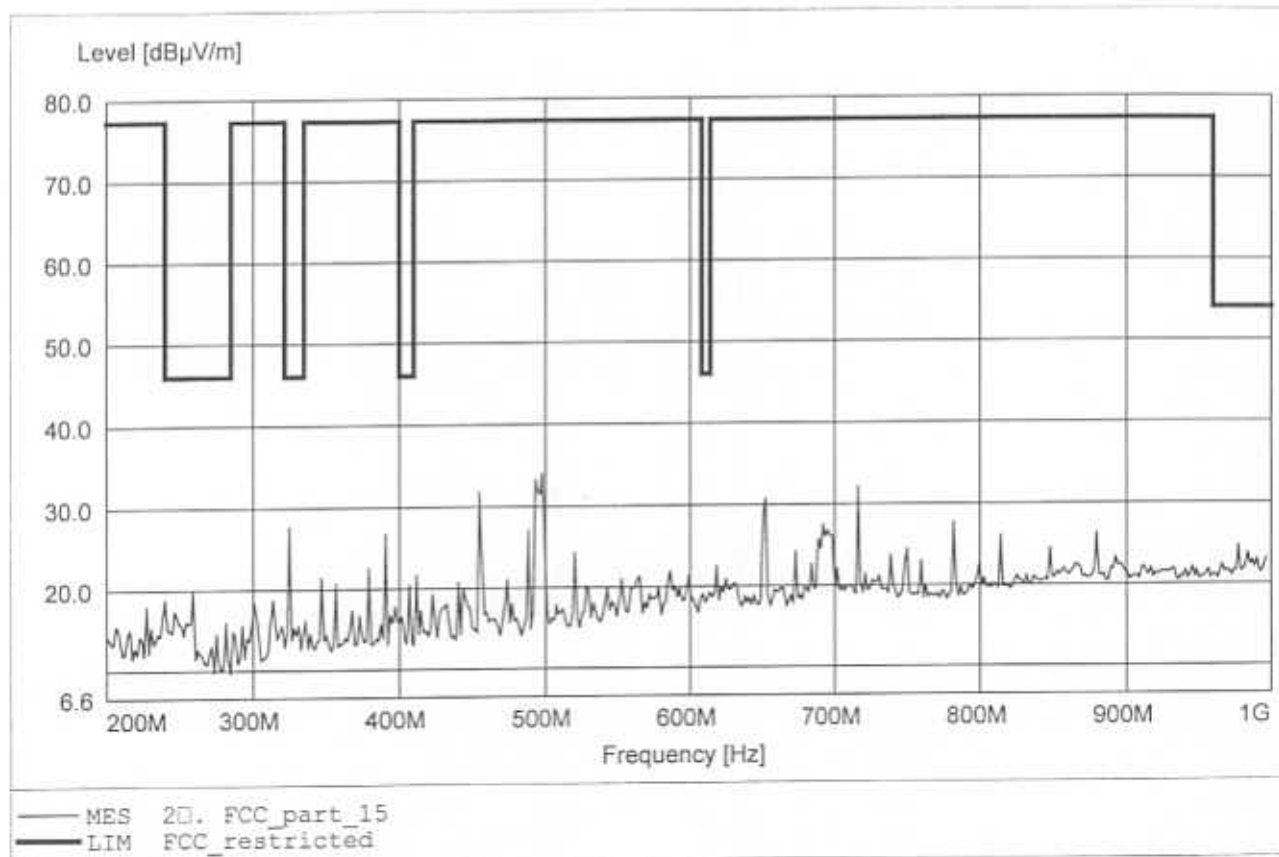
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 187.395MHz, Emax: 32.03dBμV/m, RBW: 100kHz



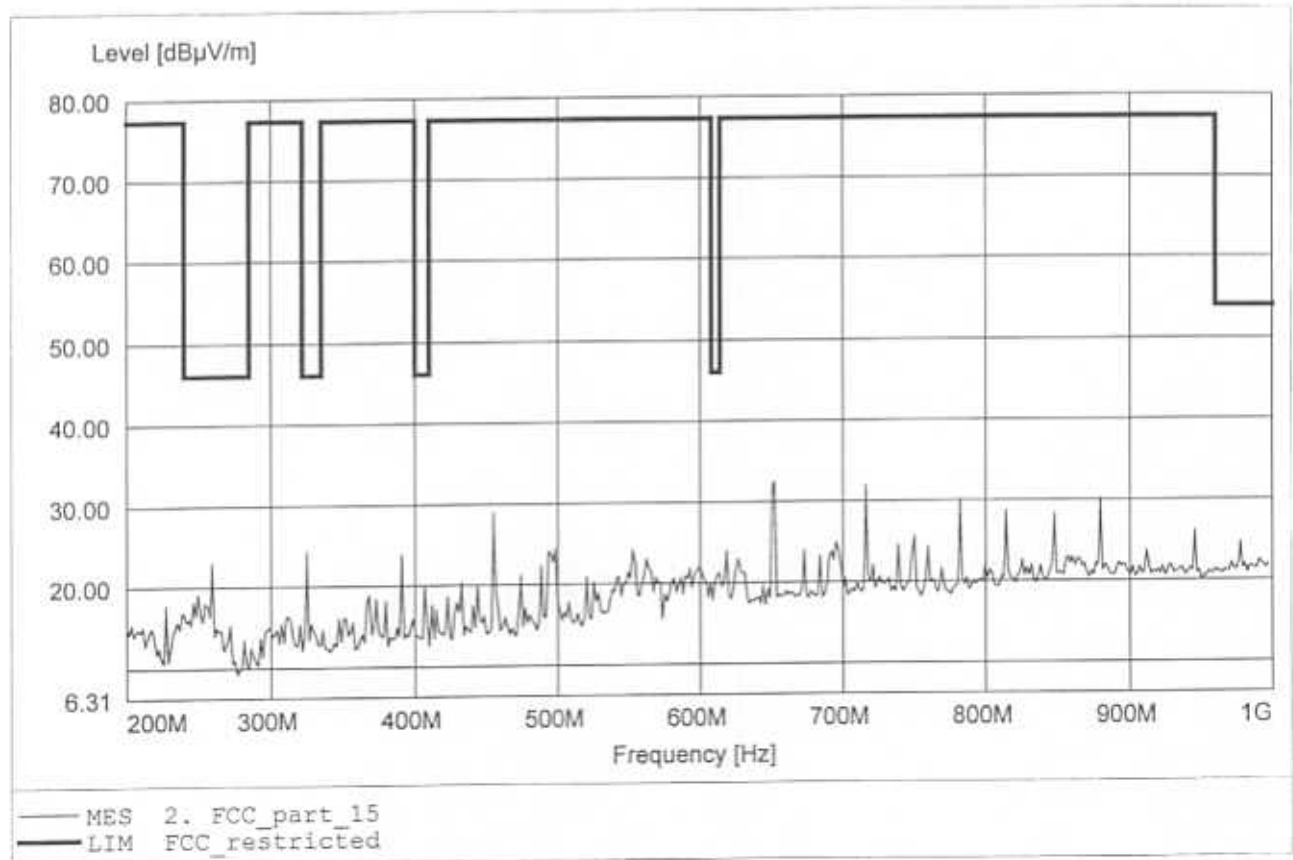
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 498.196MHz, Emax: 33.95dBµV/m, RBW: 100kHz



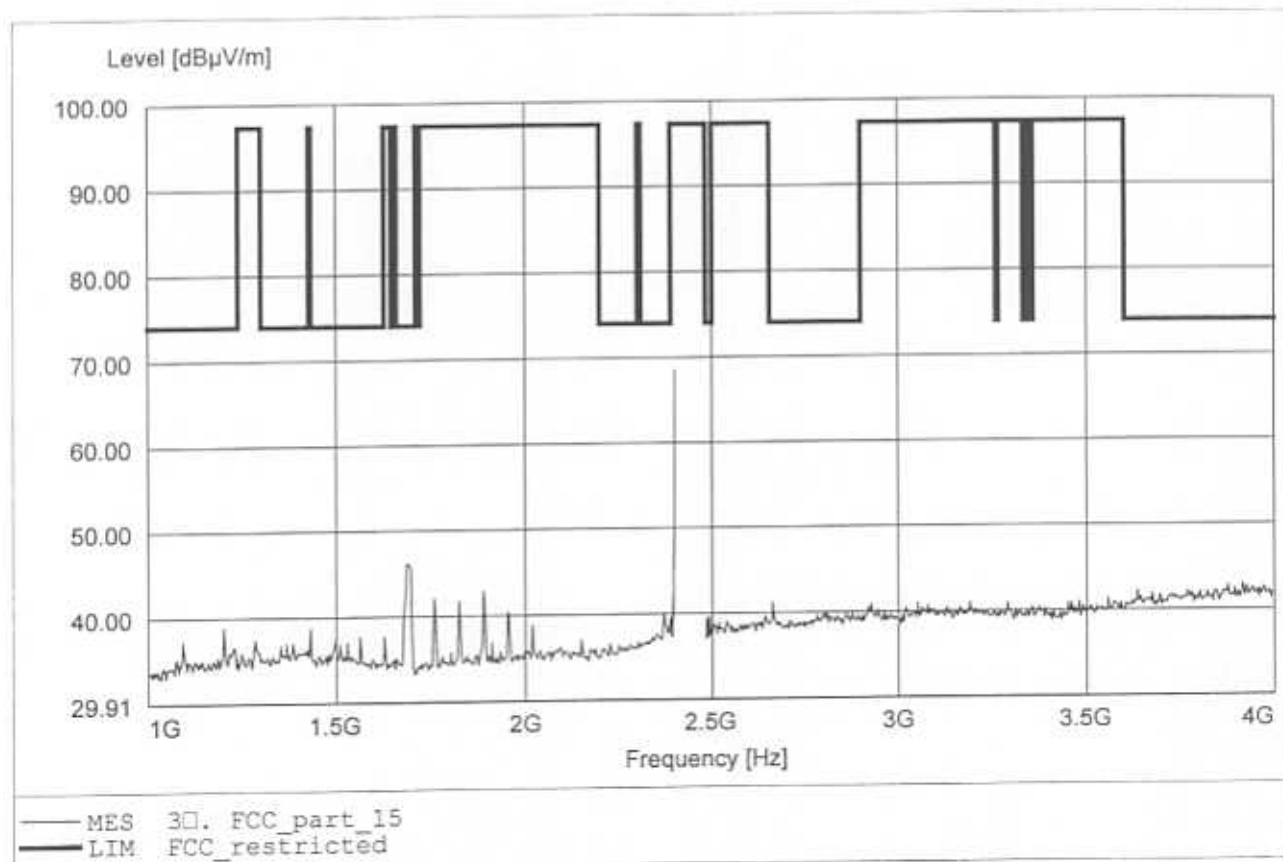
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 652.104MHz, Emax: 32.45dBµV/m, RBW: 100kHz



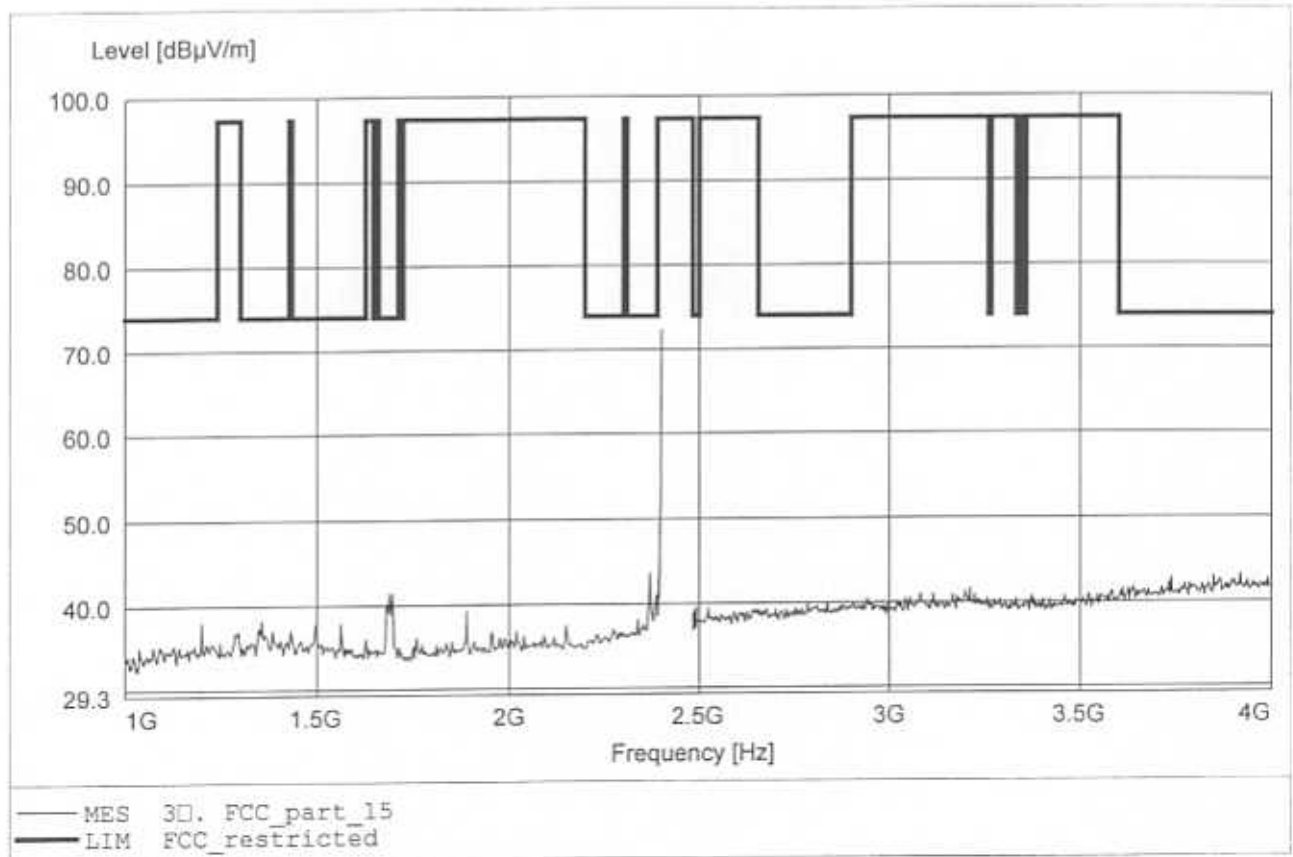
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 68.59dBµV/m, RBW: 1MHz



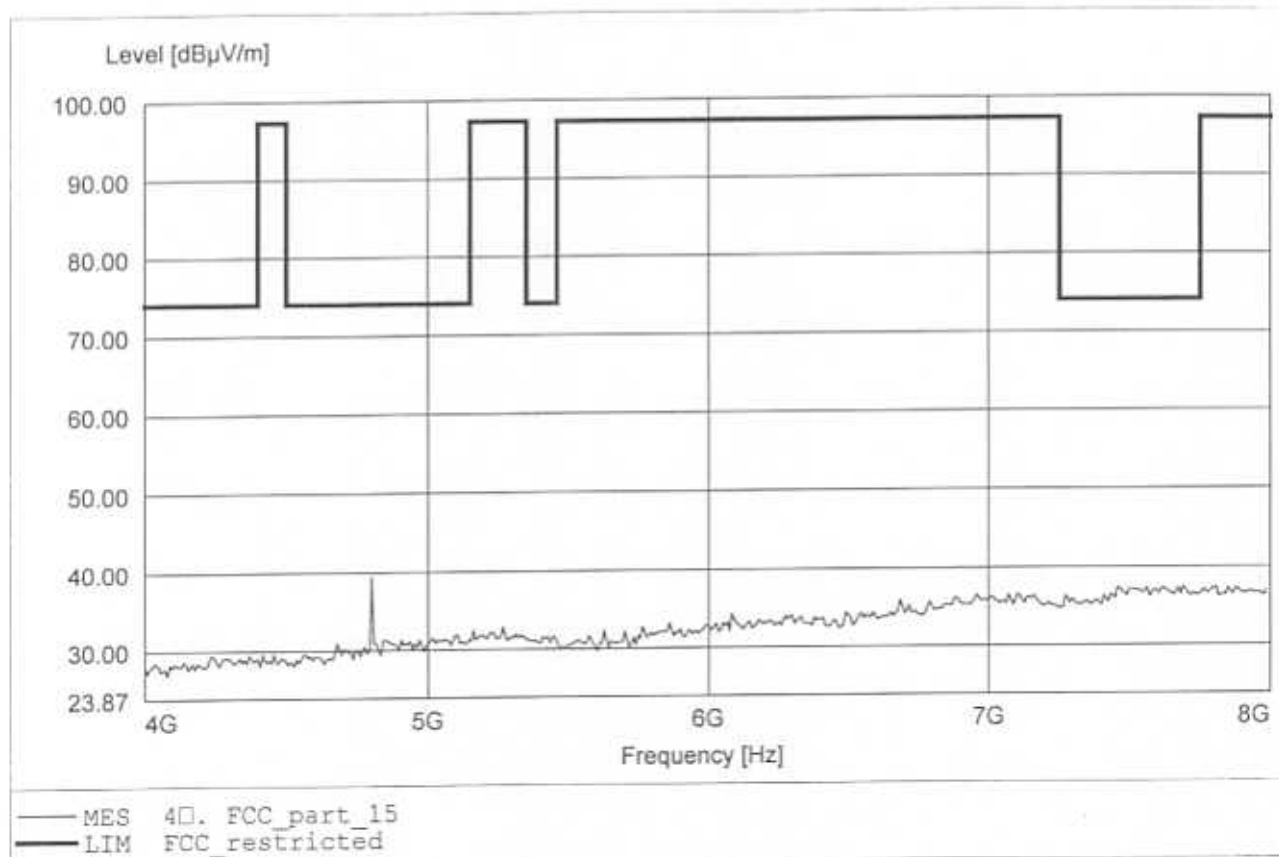
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq: 2.400GHz, Emax: 72.38dBμV/m, RBW: 1MHz



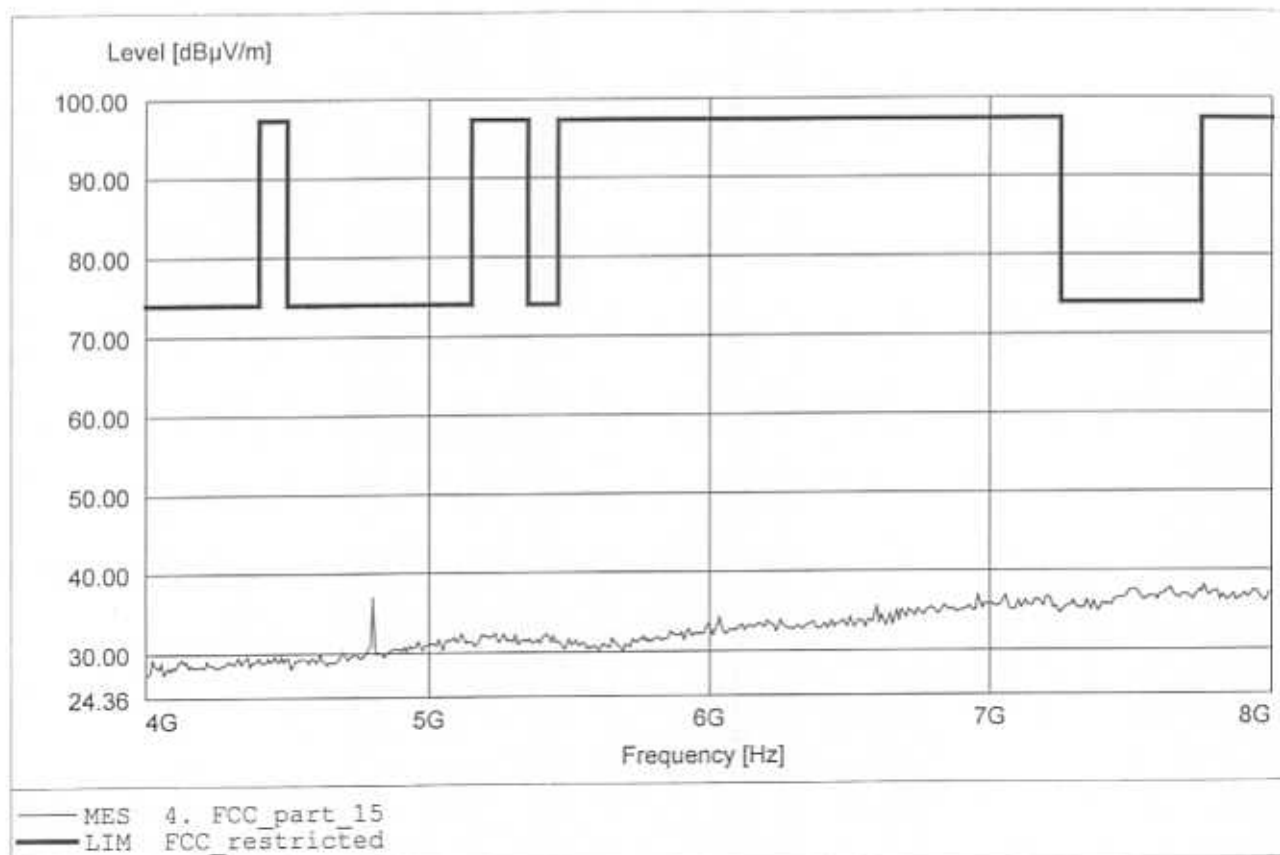
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, ampl.+HP.
Comment 2: Freq: 4.802GHz, Emax: 39.56dBµV/m, RBW: 1MHz



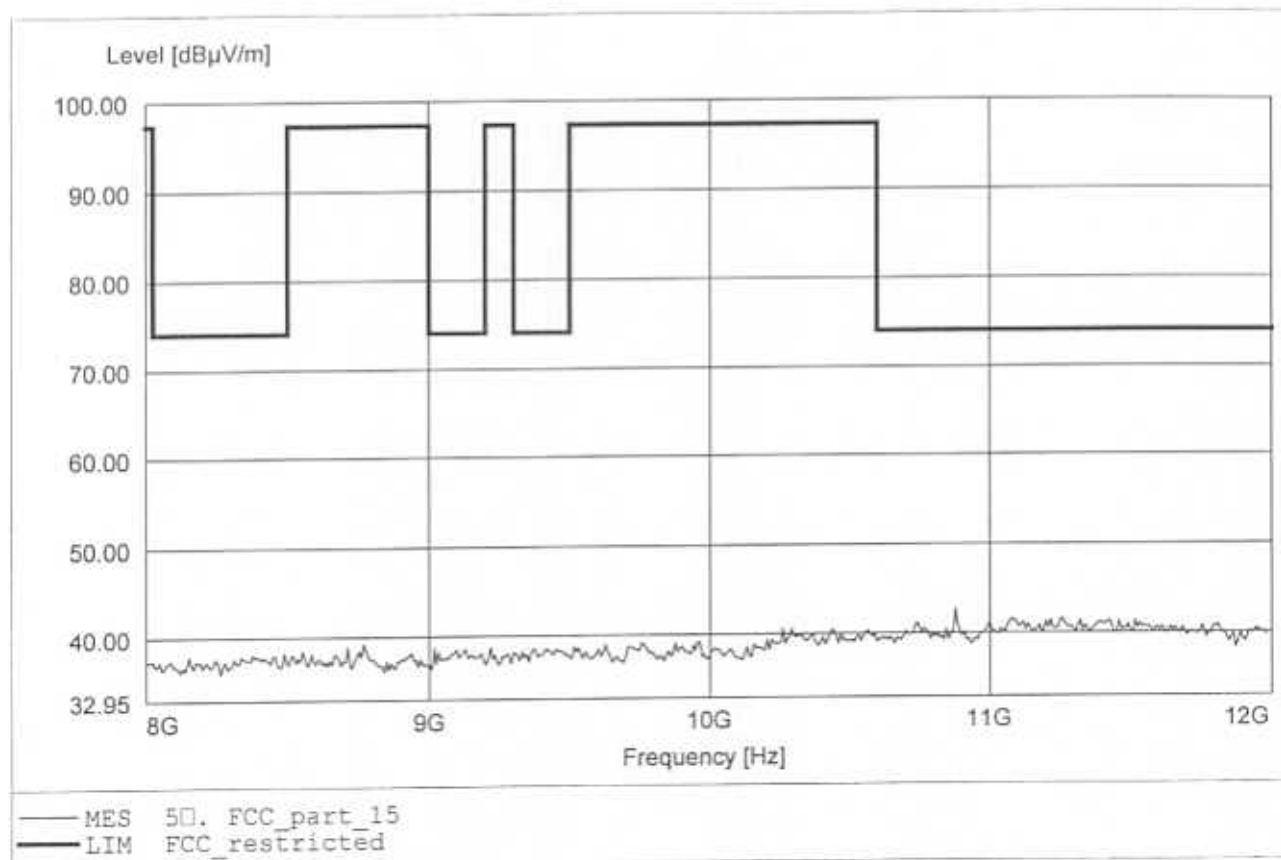
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, ampl.+HP.
Comment 2: Freq: 7.760GHz, Emax: 38.15dBµV/m, RBW: 1MHz



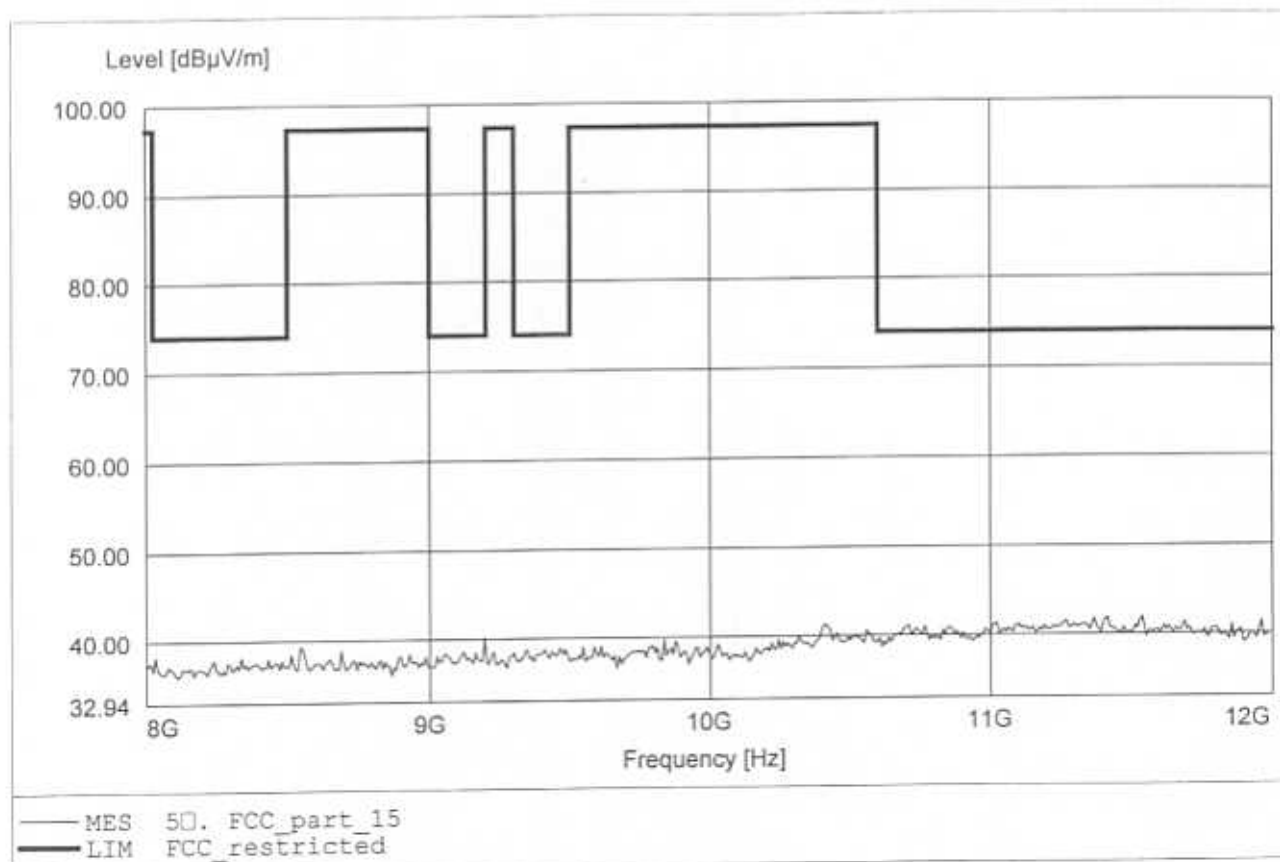
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, ampl.+HP.
Comment 2: Freq: 10.878GHz, Emax: 42.76dBµV/m, RBW: 1MHz



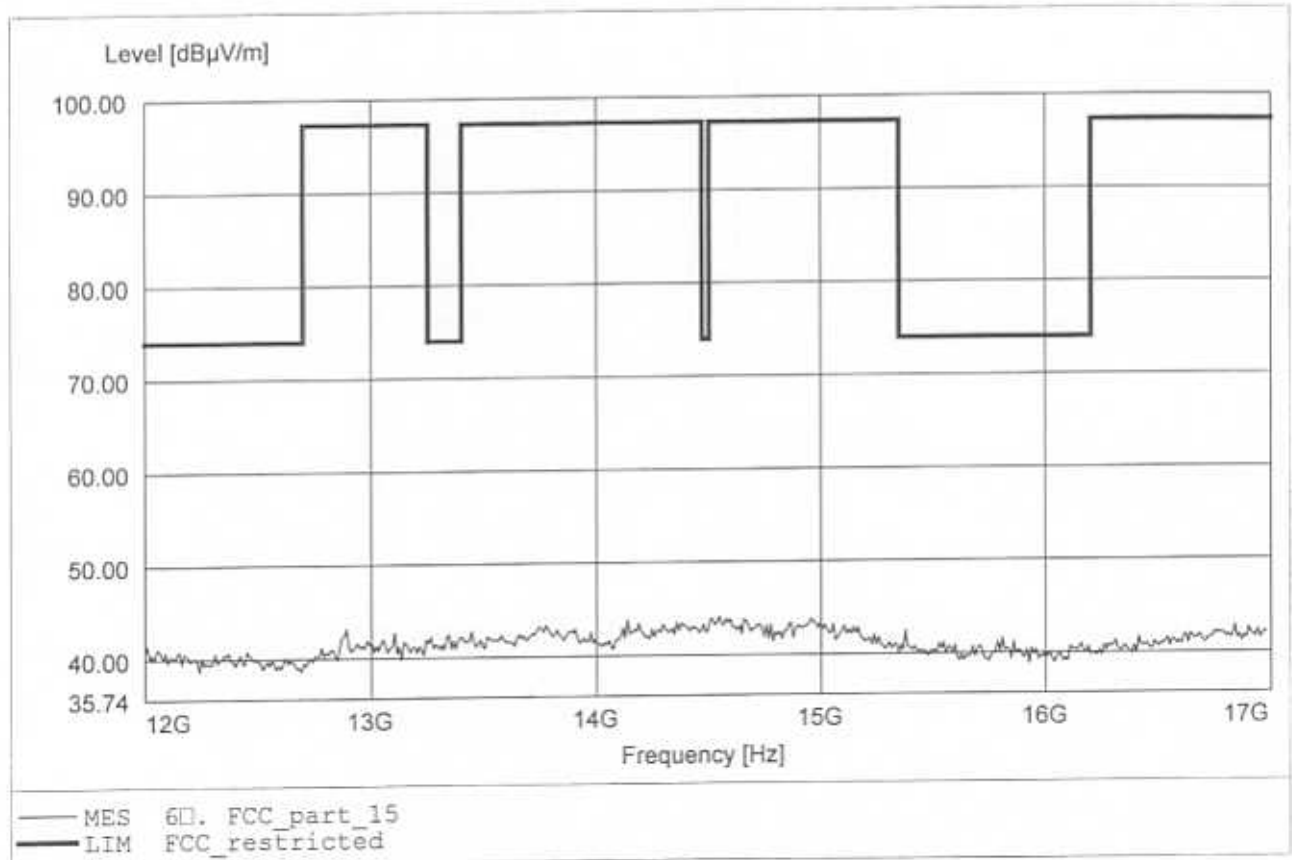
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, ampl.+HP.
Comment 2: Freq: 11.535GHz, Emax: 41.92dBµV/m, RBW: 1MHz



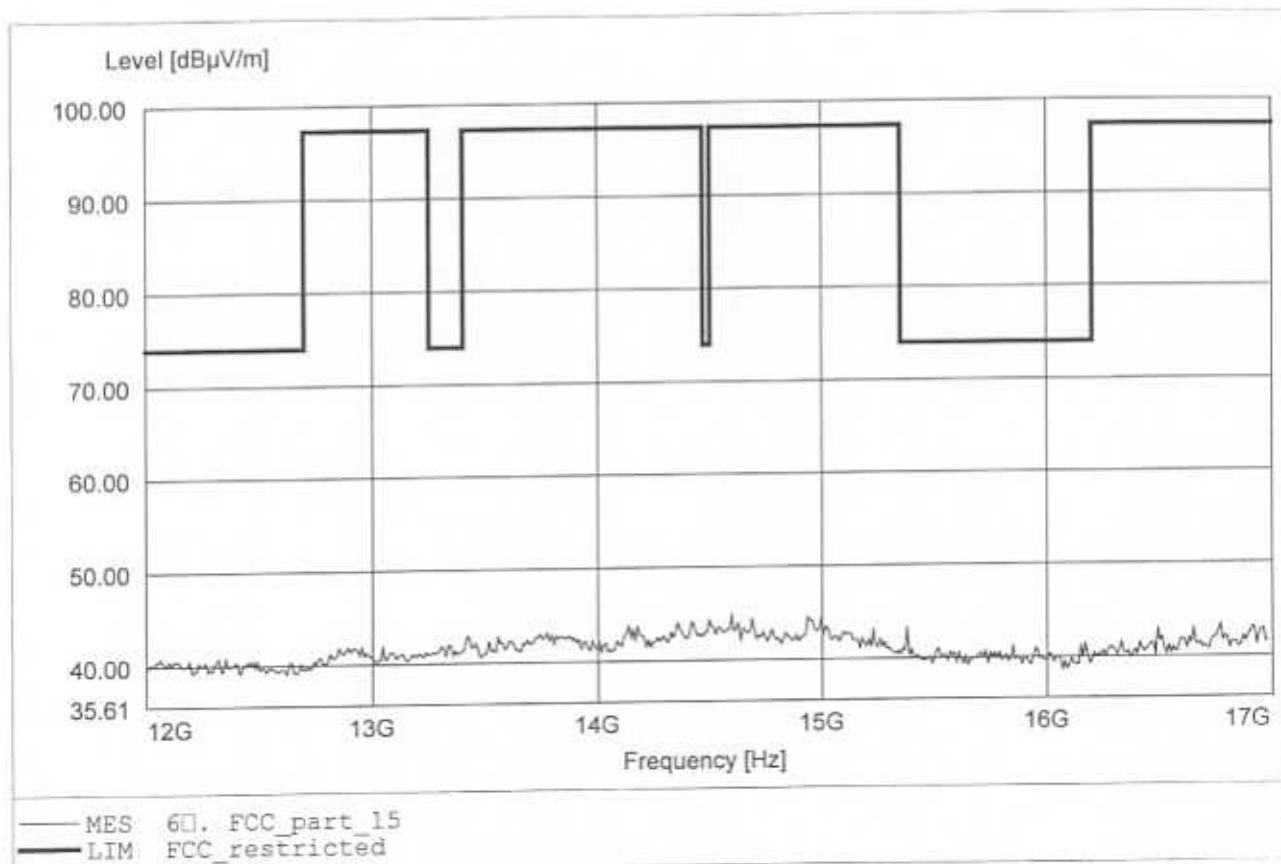
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, ampl.+HP.
Comment 2: Freq: 14.545GHz, Emax: 44.15dBµV/m, RBW: 1MHz



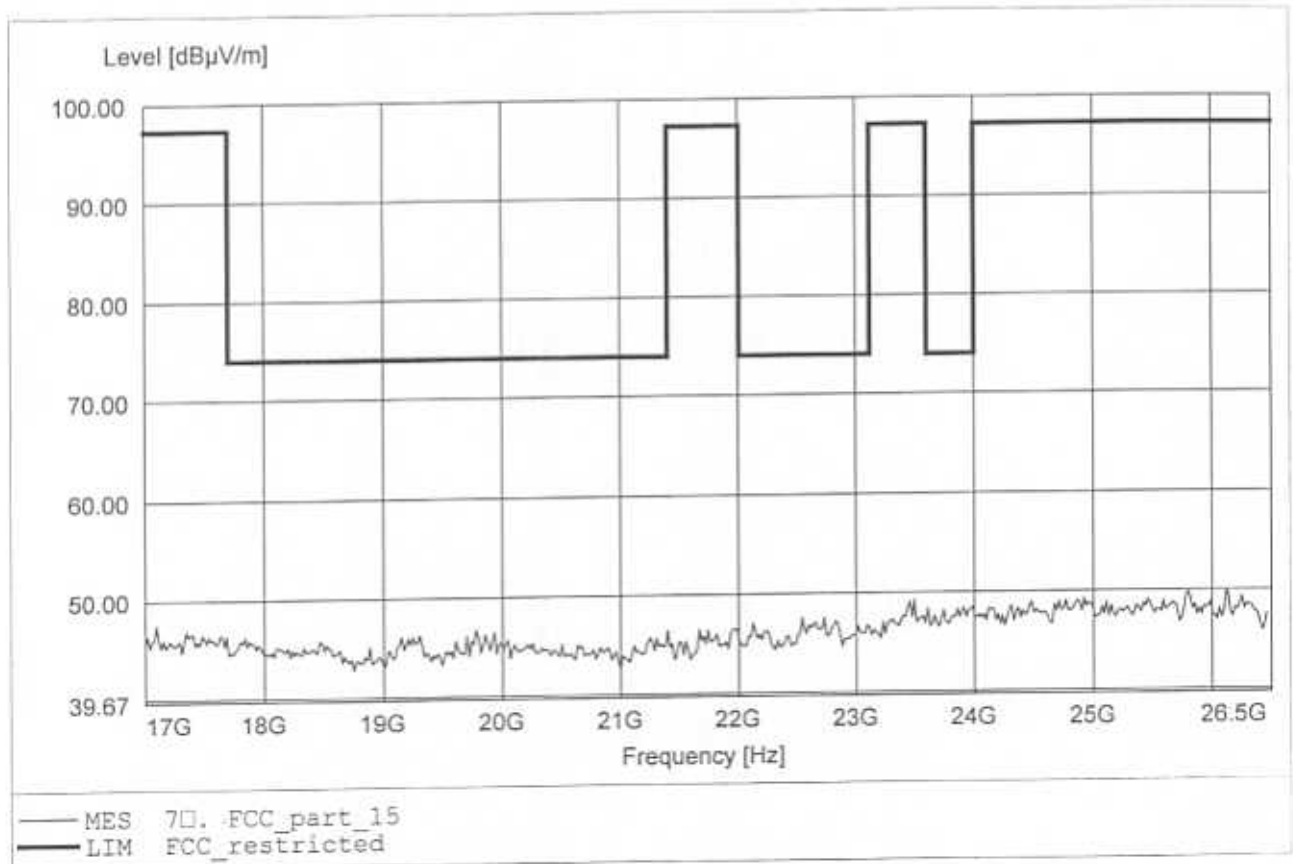
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, ampl.+HP.
Comment 2: Freq: 14.595GHz, Emax: 44.97dBµV/m, RBW: 1MHz



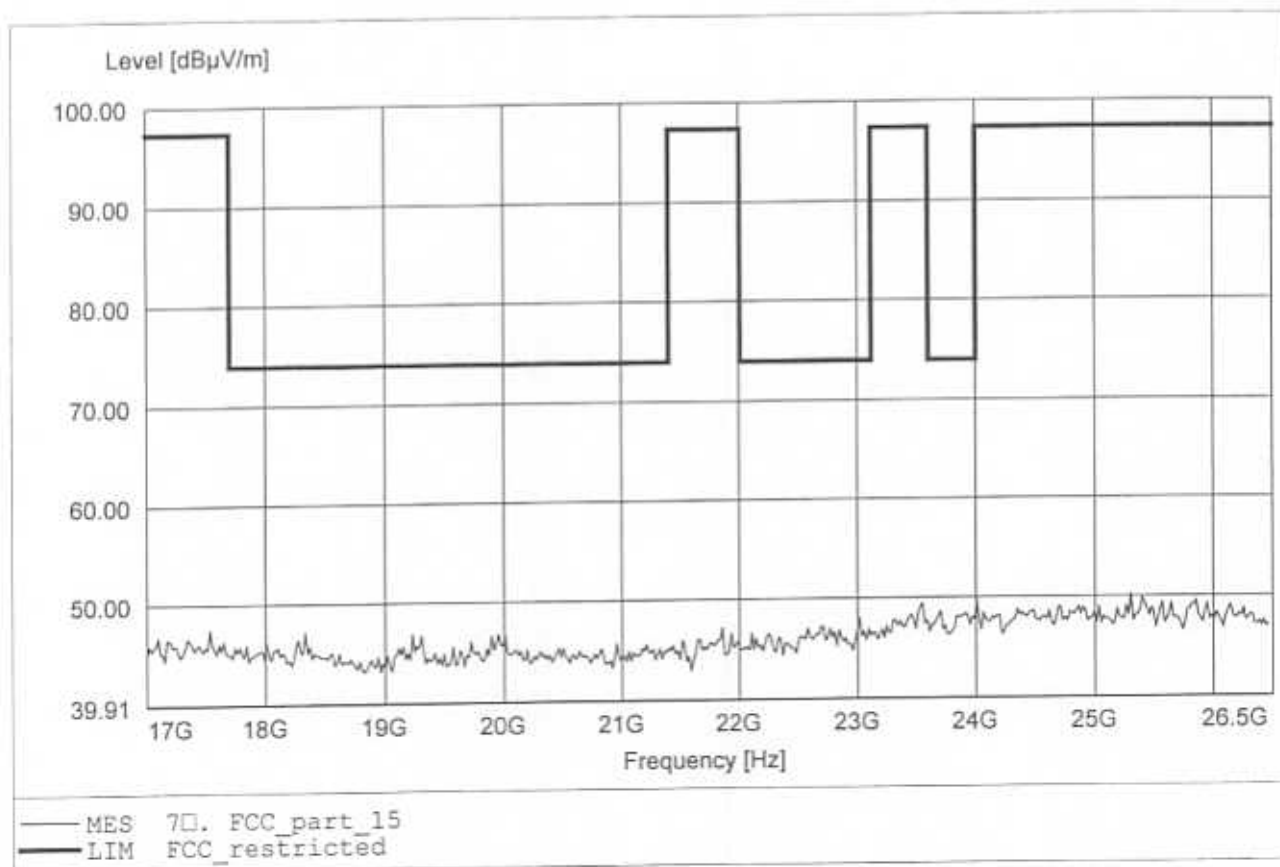
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom: 23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 26.119GHz, Emax: 49.95dBuV/m, RBW: 1MHz



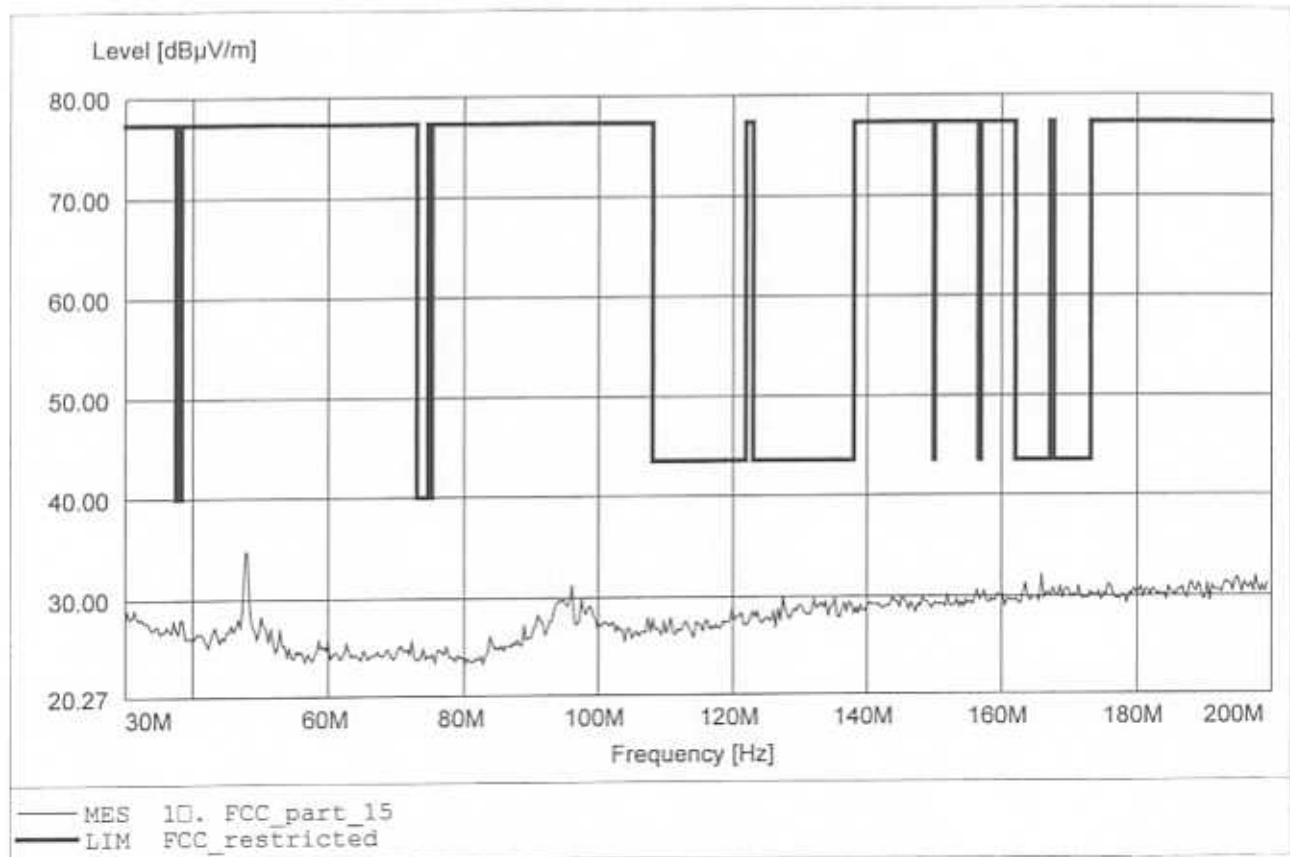
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2402 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 25.301GHz, Emax: 50.30dBuV/m, RBW: 1MHz



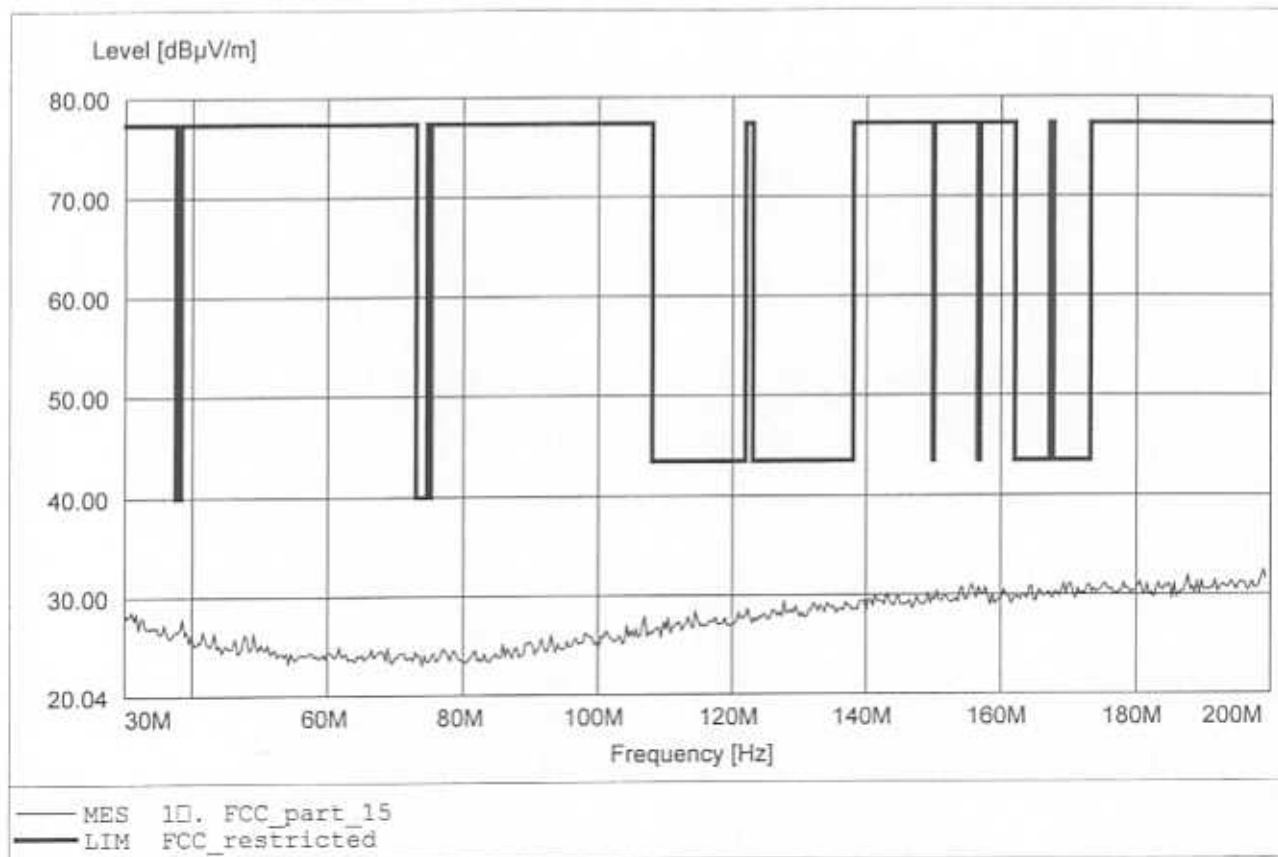
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 48.056MHz, Emax: 34.79dBµV/m, RBW: 100kHz



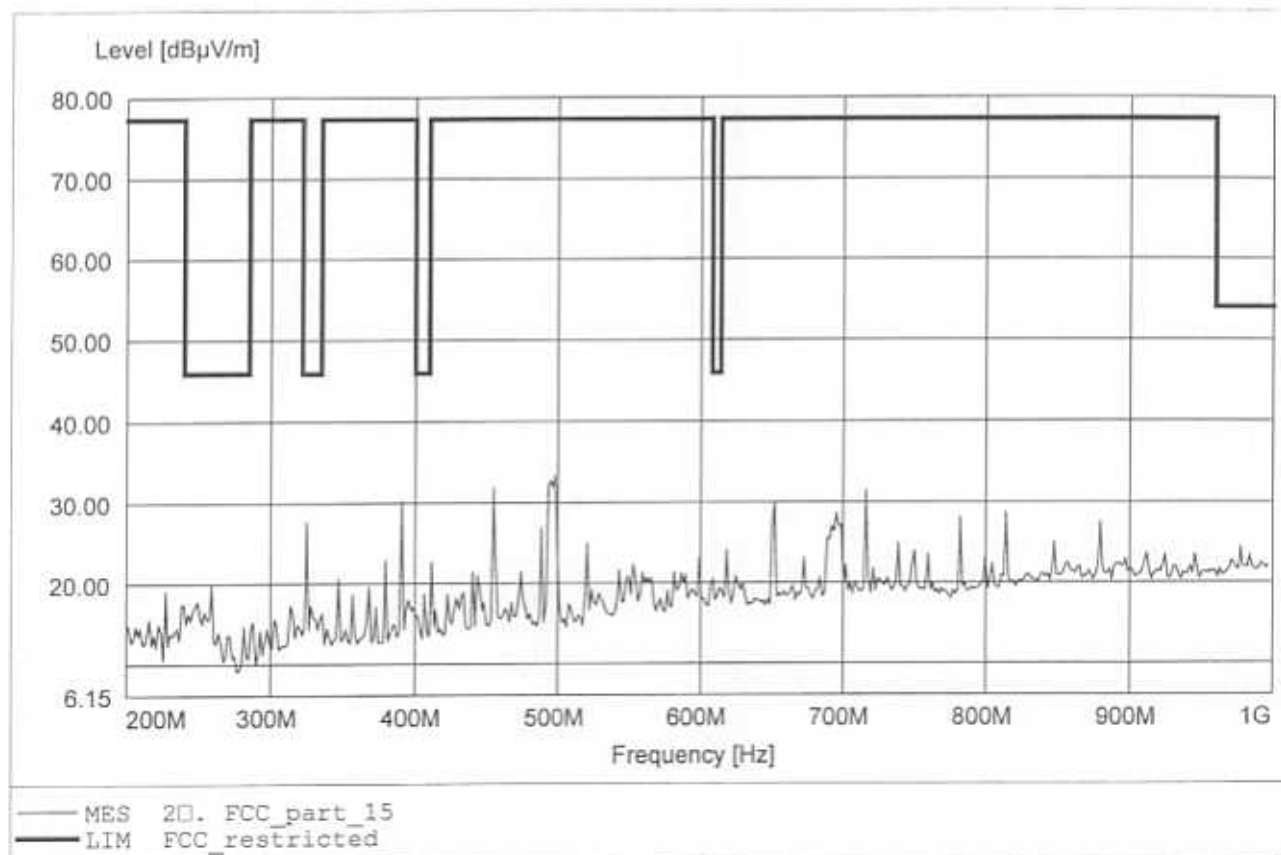
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 198.978MHz, Emax: 32.46dBµV/m, RBW: 100kHz



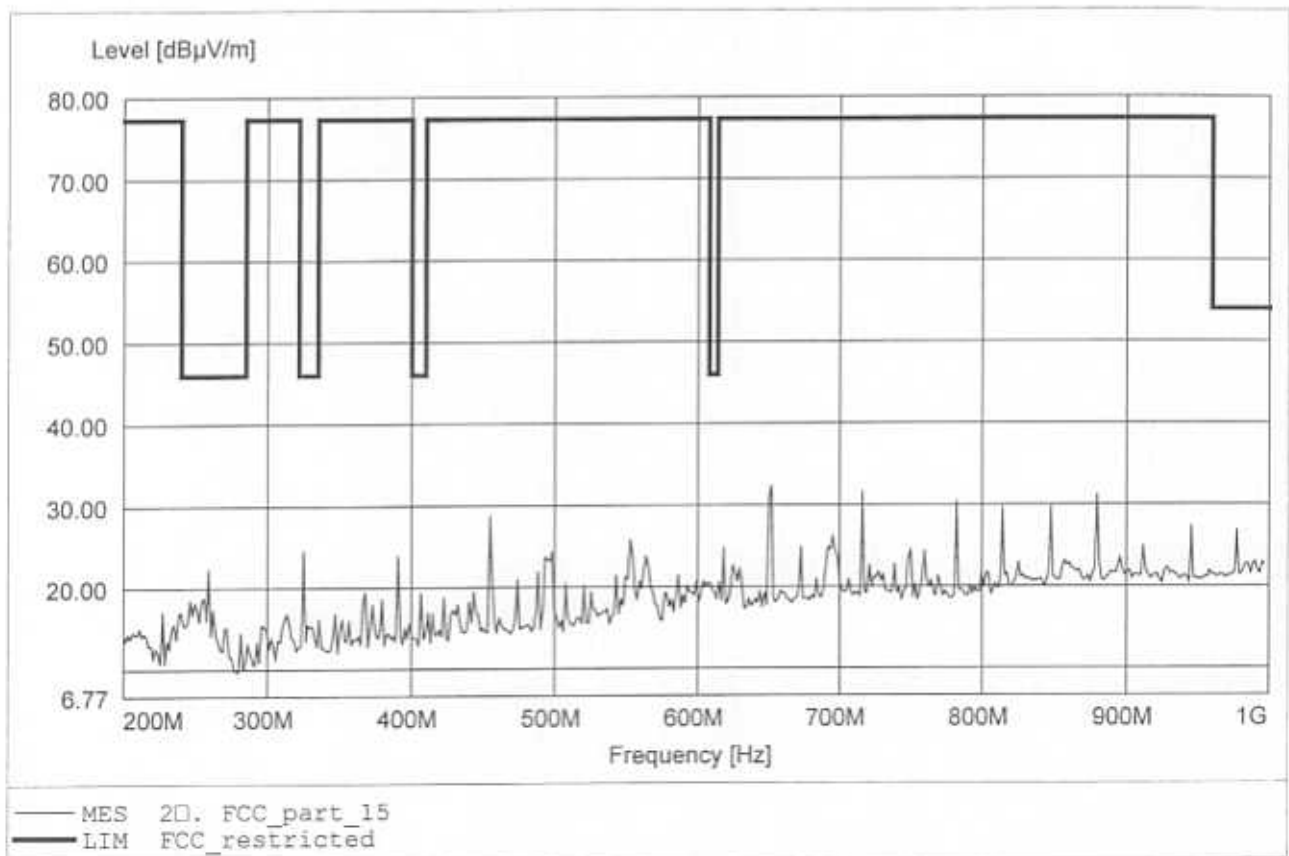
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 498.196MHz, Emax: 33.39dBµV/m, RBW: 100kHz



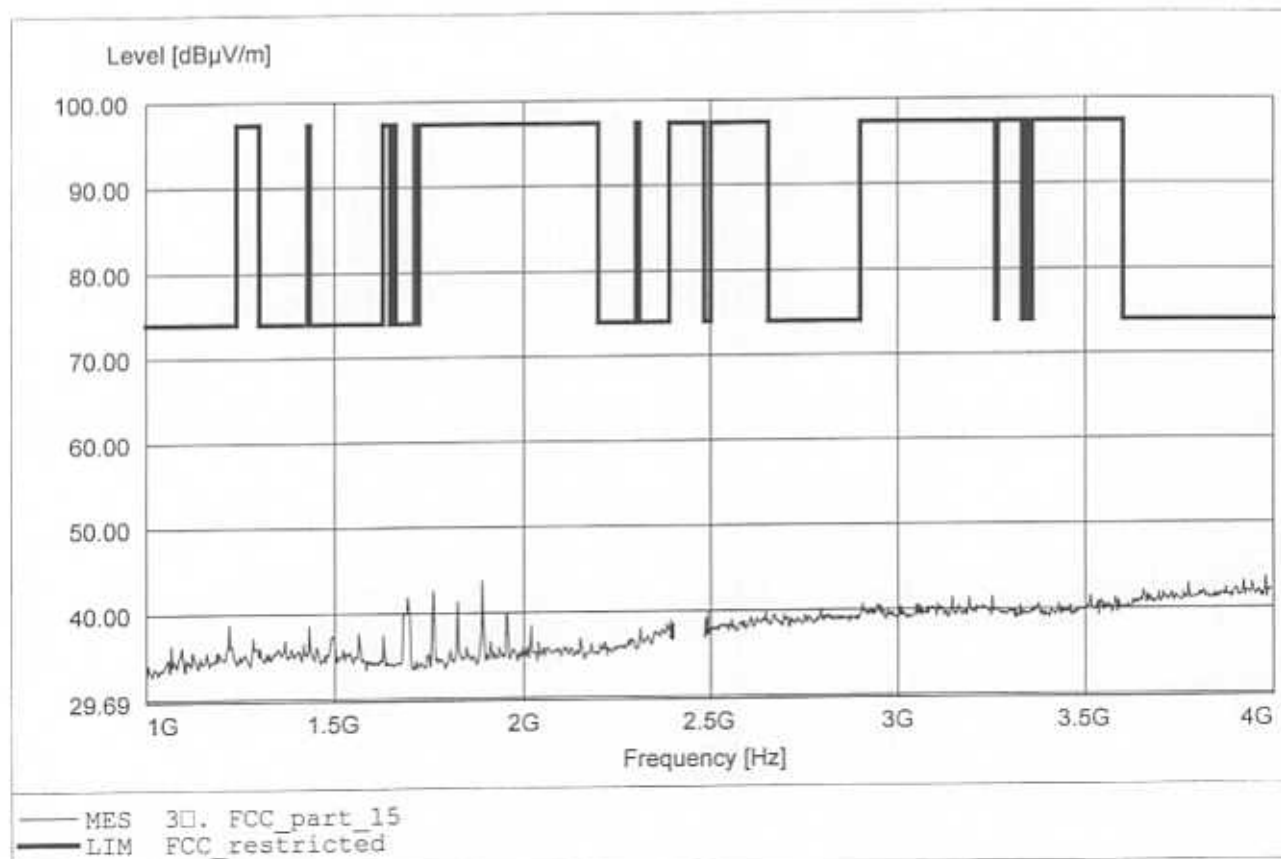
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 652.104MHz, Emax: 32.38dBµV/m, RBW: 100kHz



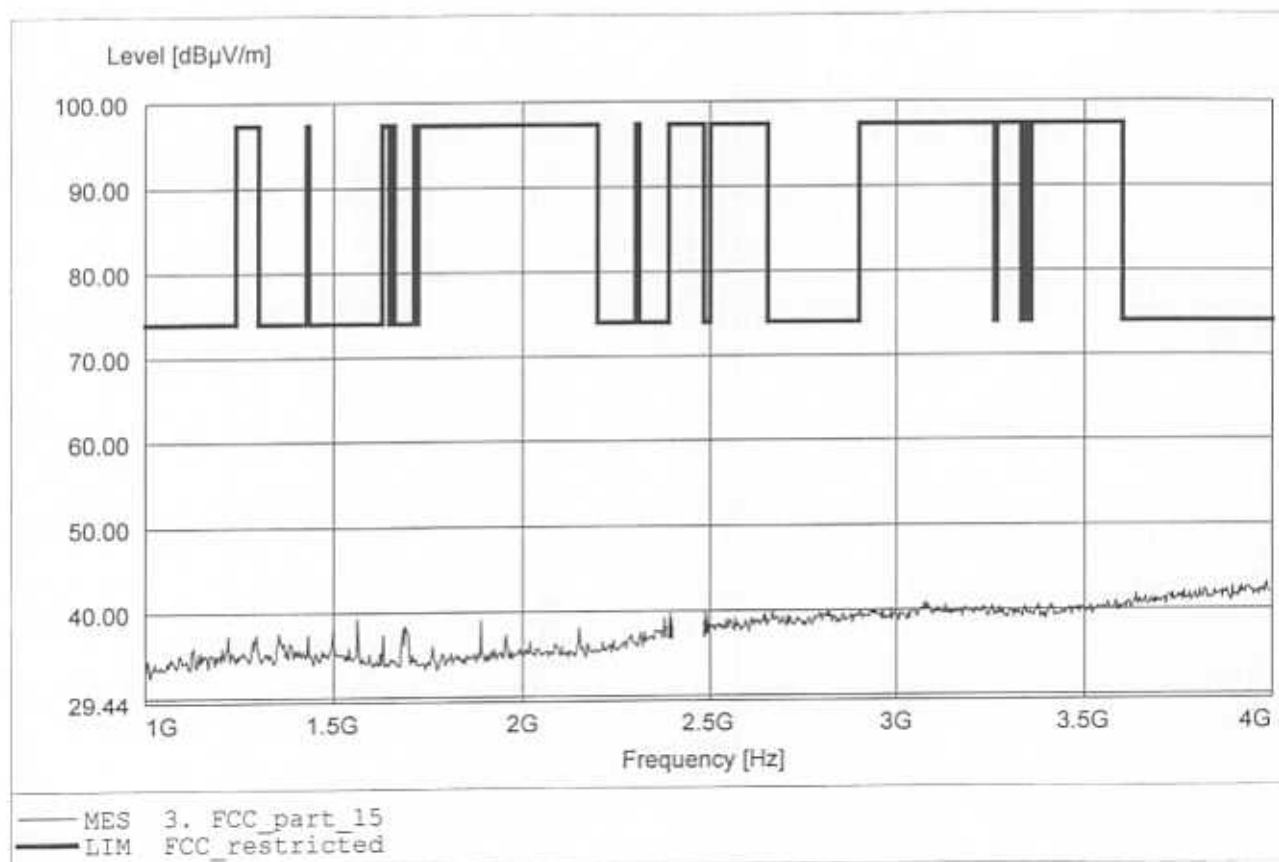
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq: 1.889GHz, Emax: 43.84dBµV/m, RBW: 1MHz



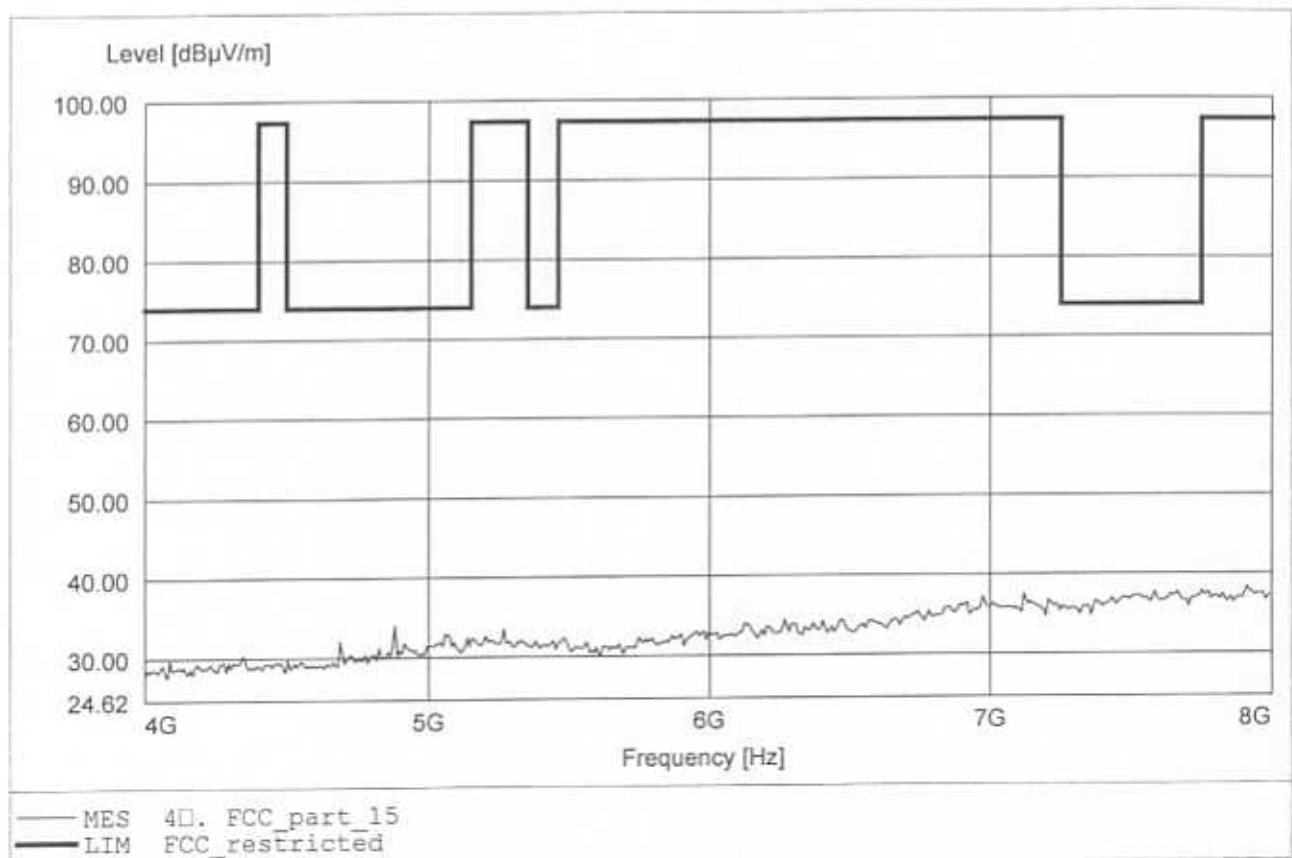
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq: 3.985GHz, Emax: 43.18dBµV/m, RBW: 1MHz



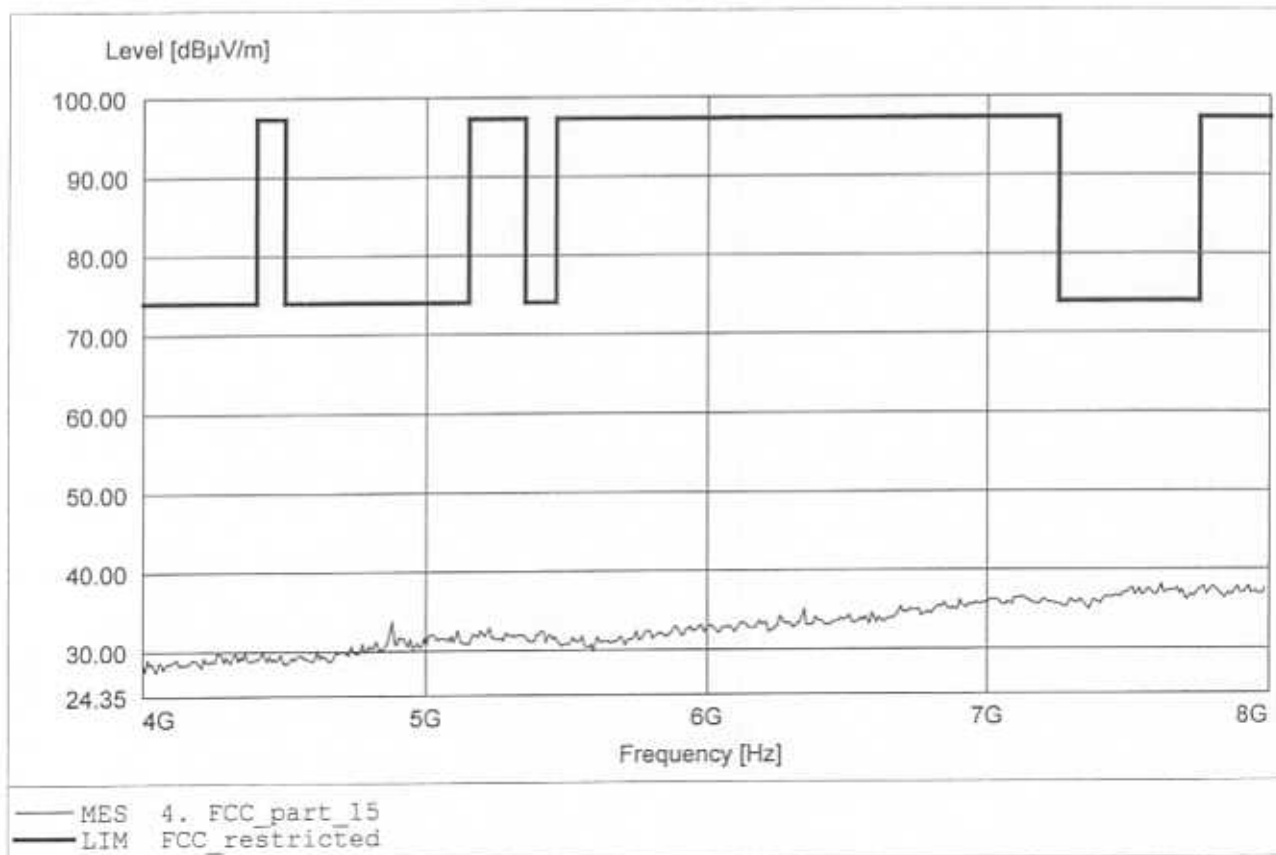
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, ampl.+HP.
Comment 2: Freq: 7.912GHz, Emax: 38.29dBµV/m, RBW: 1MHz



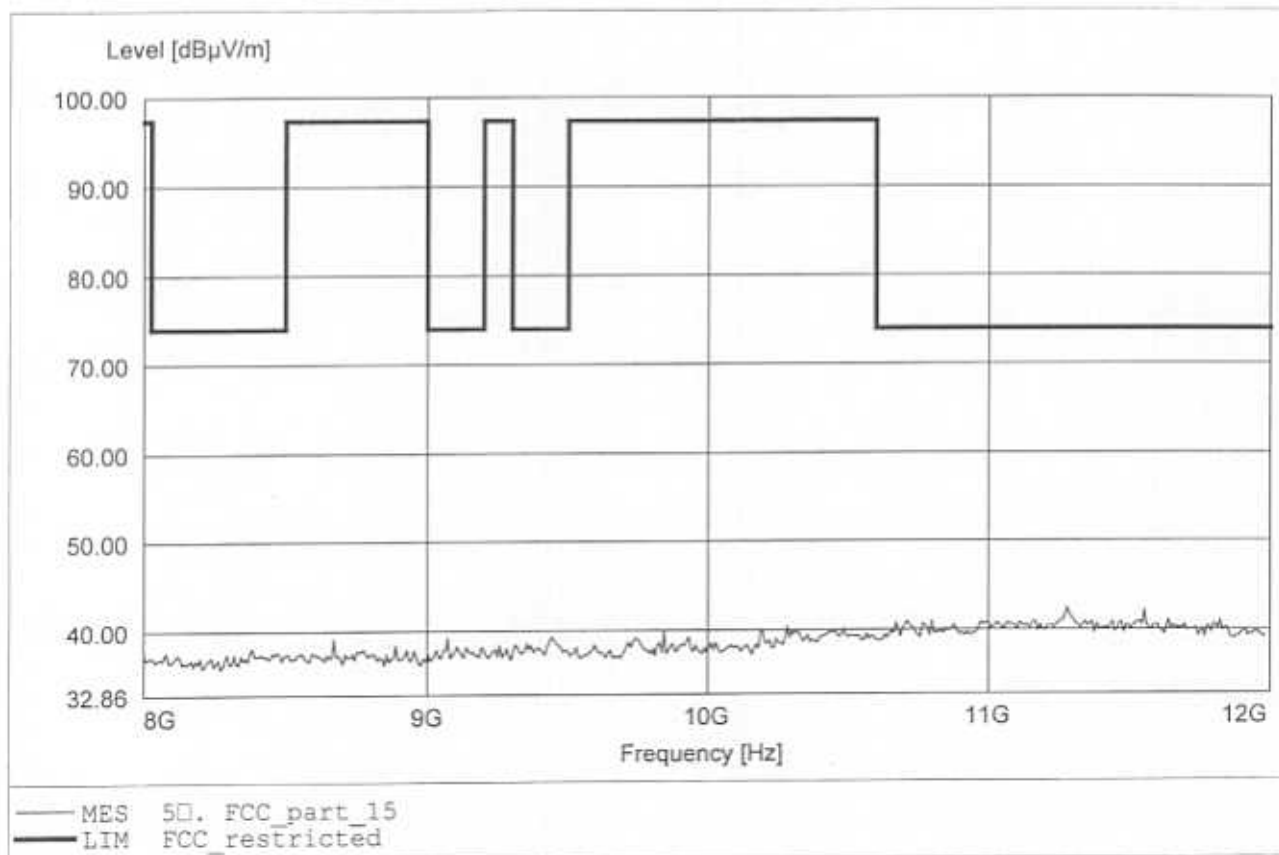
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, ampl.+HP.
Comment 2: Freq: 7.615GHz, Emax: 38.12dBµV/m, RBW: 1MHz



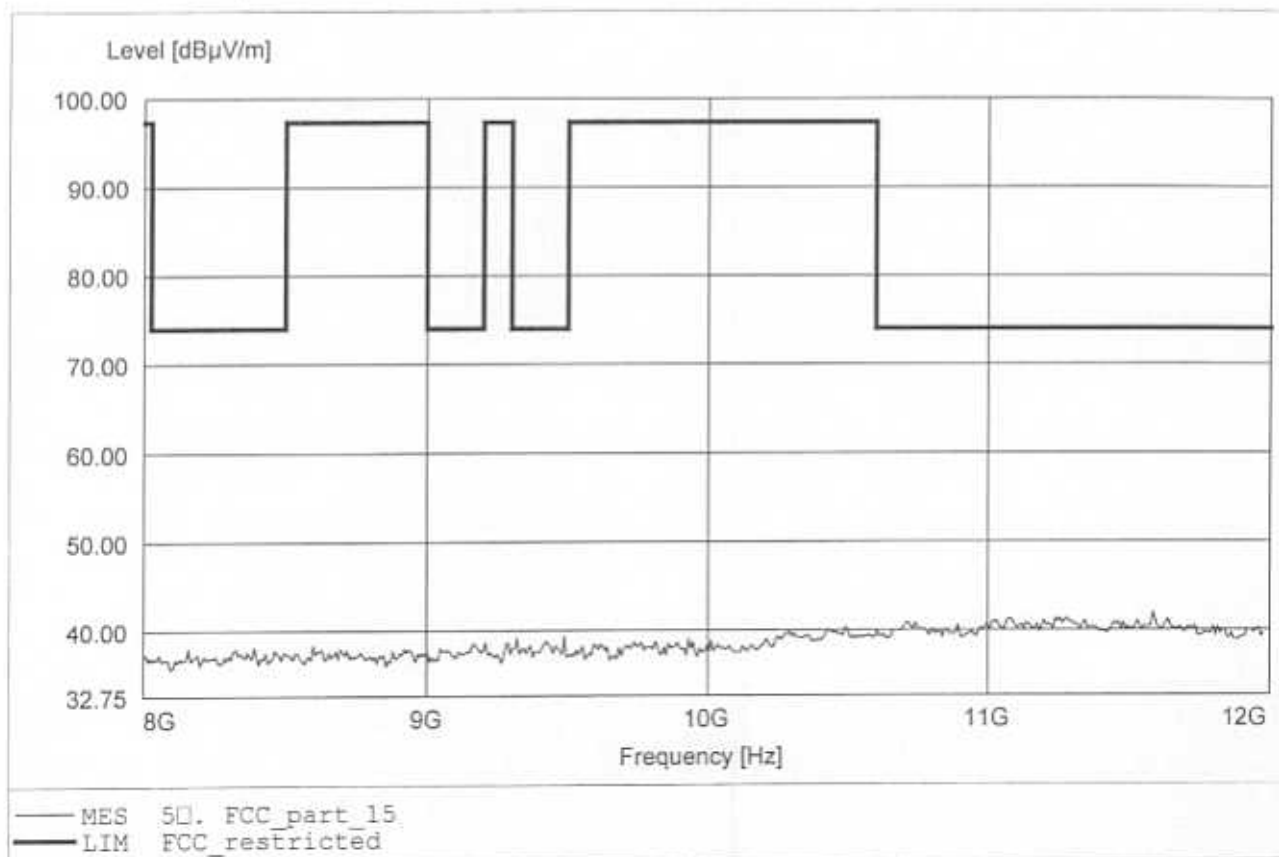
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, ampl.+HP.
Comment 2: Freq: 11.279GHz, Emax: 42.48dBuV/m, RBW: 1MHz



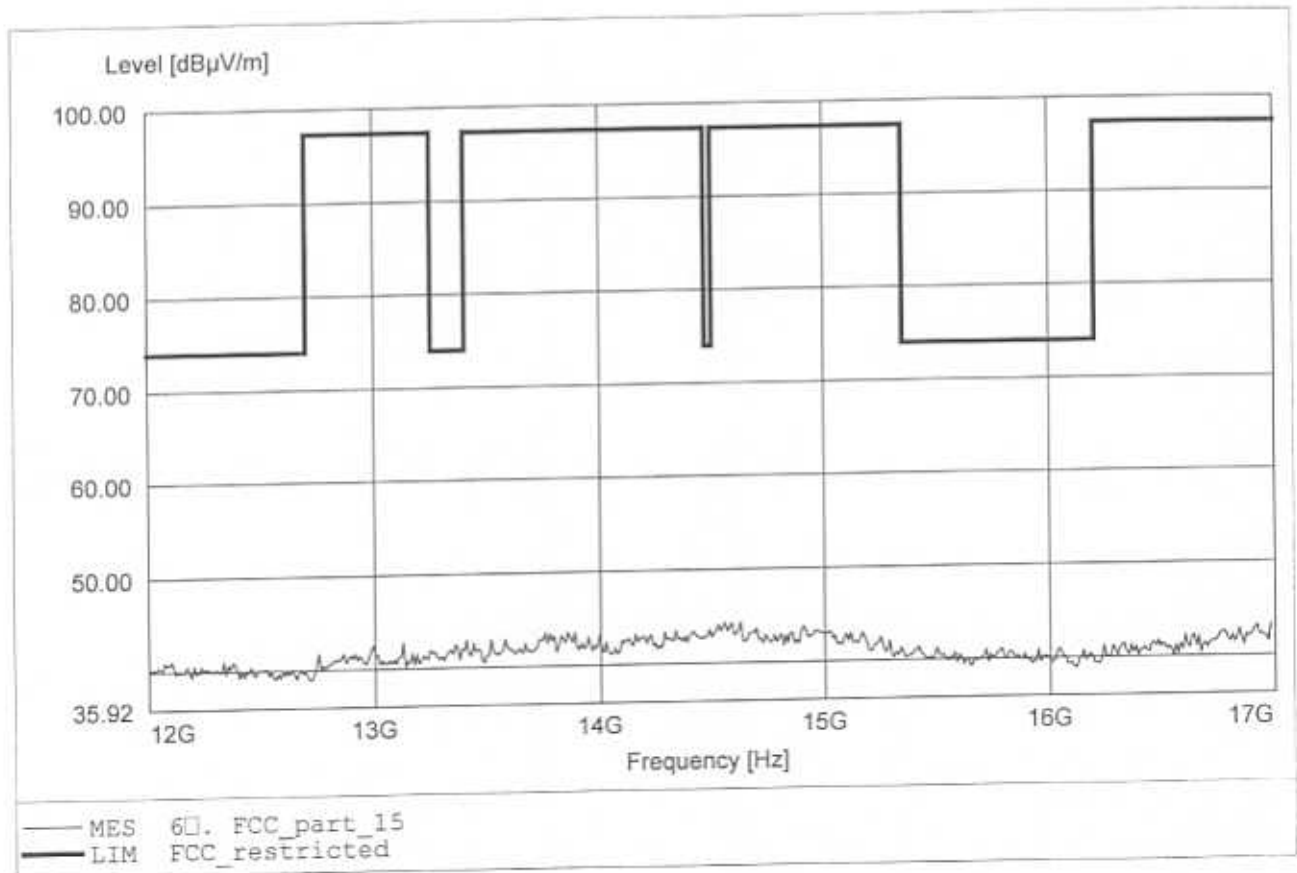
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, ampl.+HP.
Comment 2: Freq: 11.583GHz, Emax: 41.96dBuV/m, RBW: 1MHz



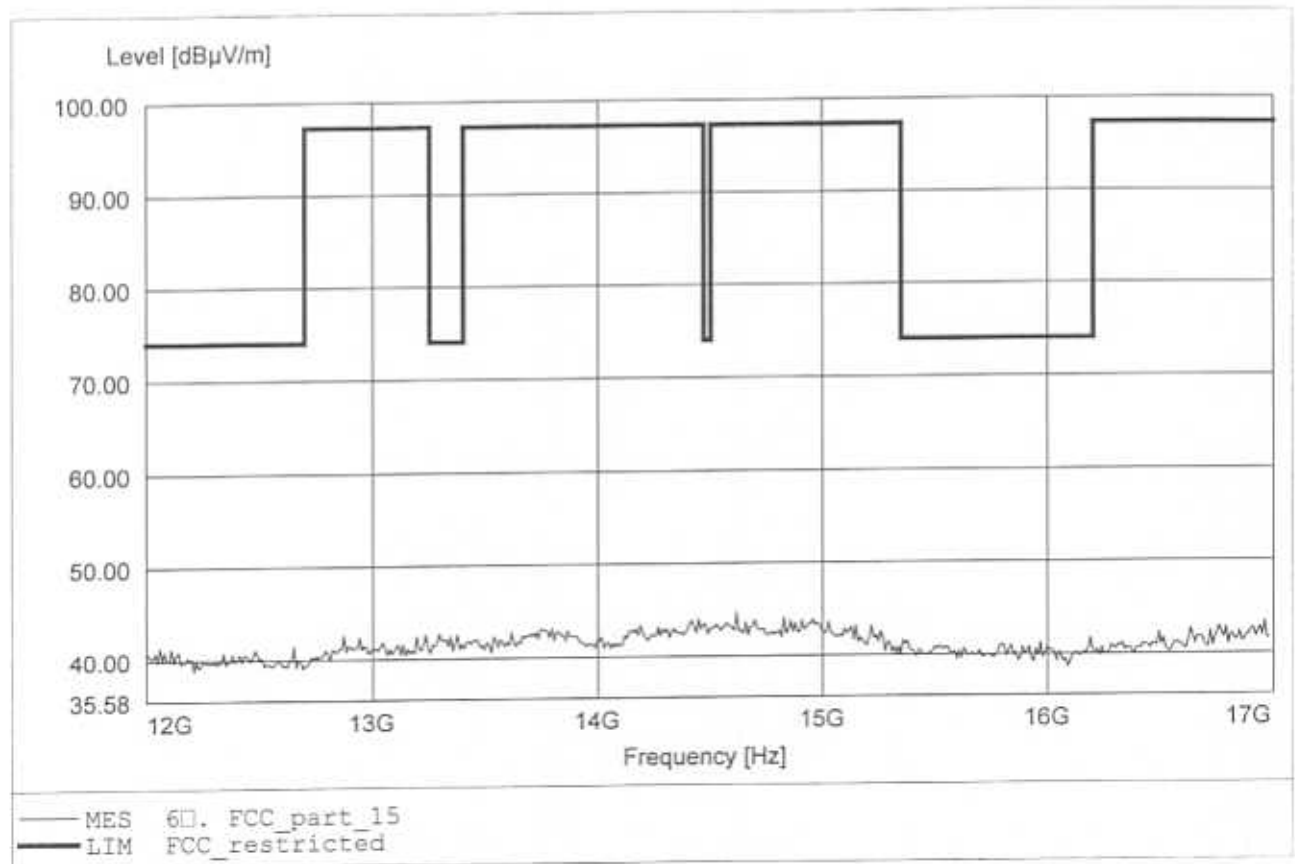
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, ampl.+HP.
Comment 2: Freq: 14.625GHz, Emax: 44.36dBµV/m, RBW: 1MHz



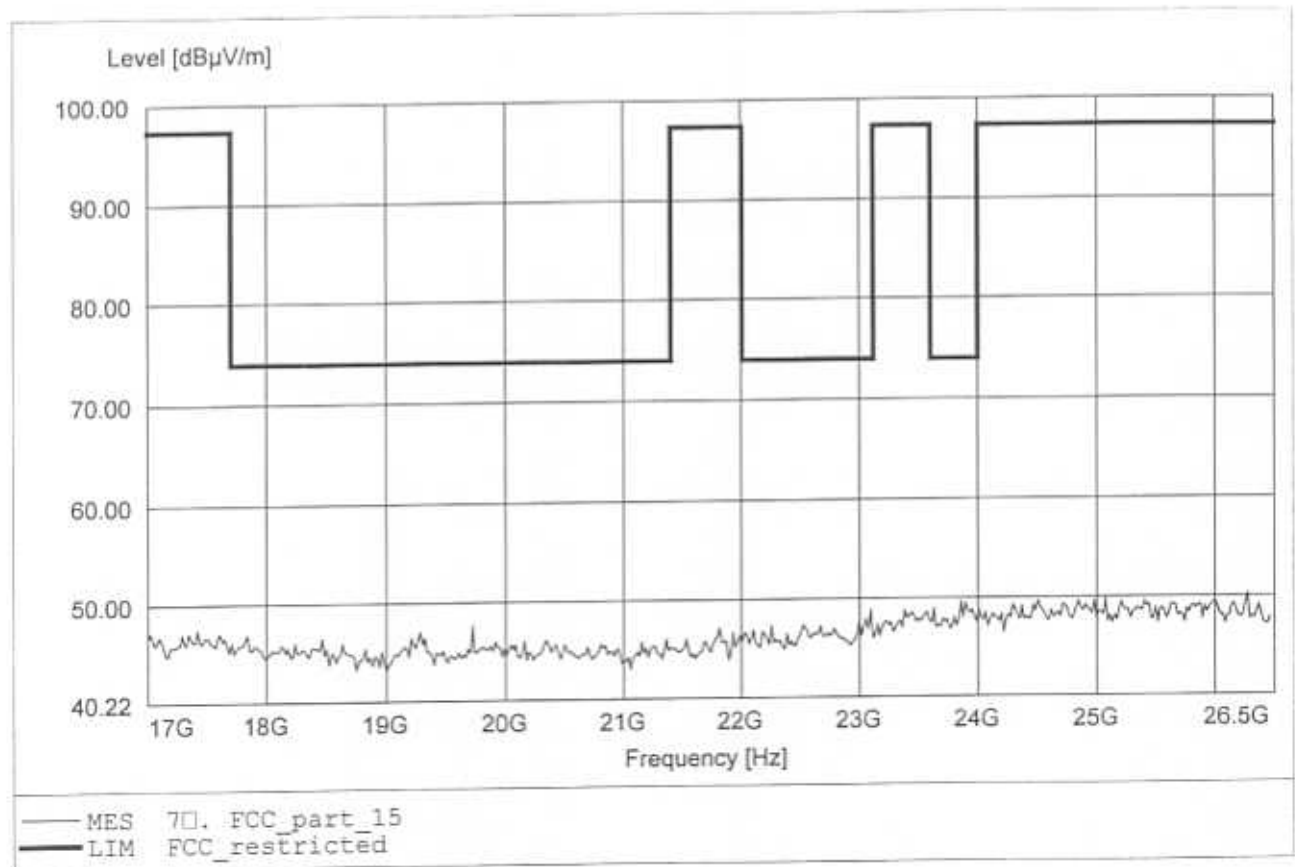
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, ampl.+HP.
Comment 2: Freq: 14.615GHz, Emax: 44.74dBµV/m, RBW: 1MHz



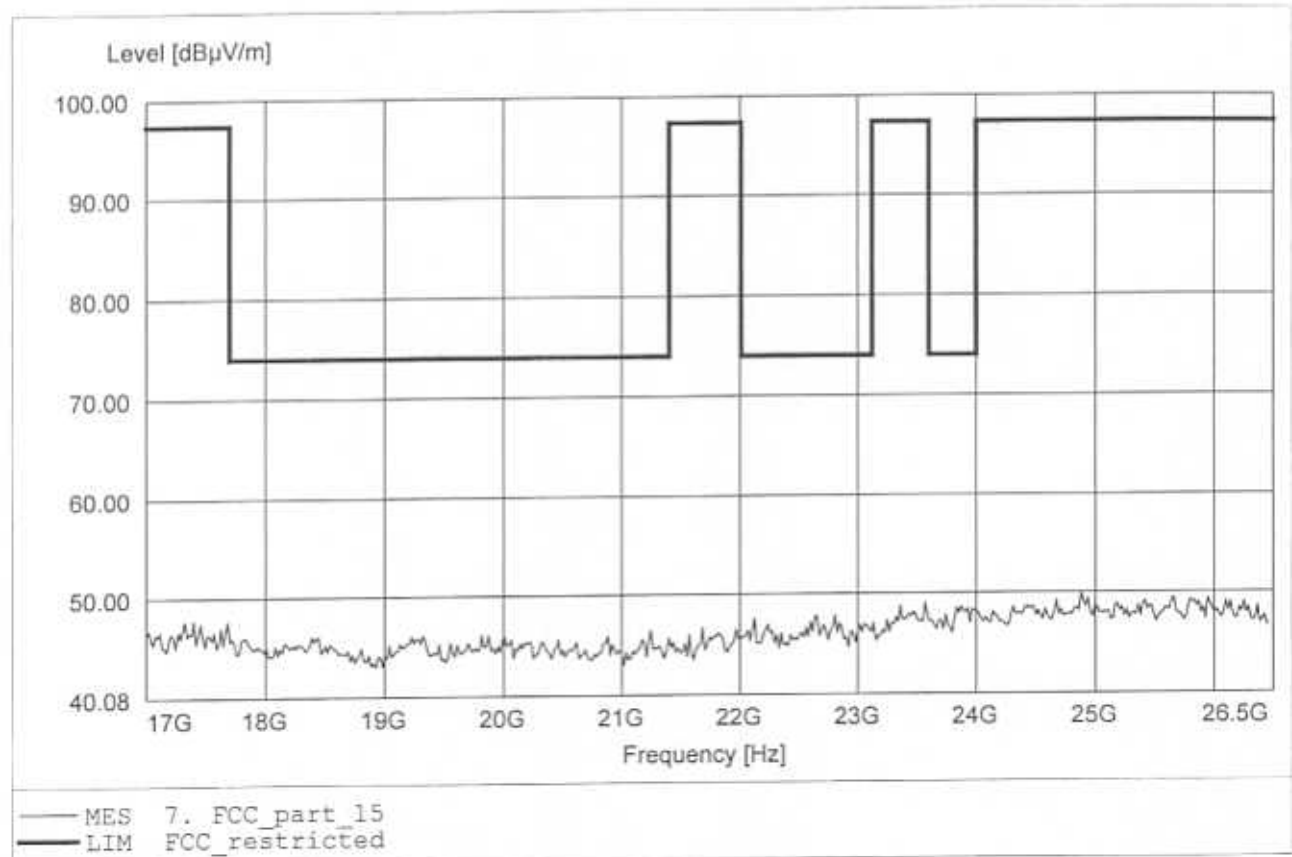
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 26.272GHz, Emax: 50.31dBµV/m, RBW: 1MHz



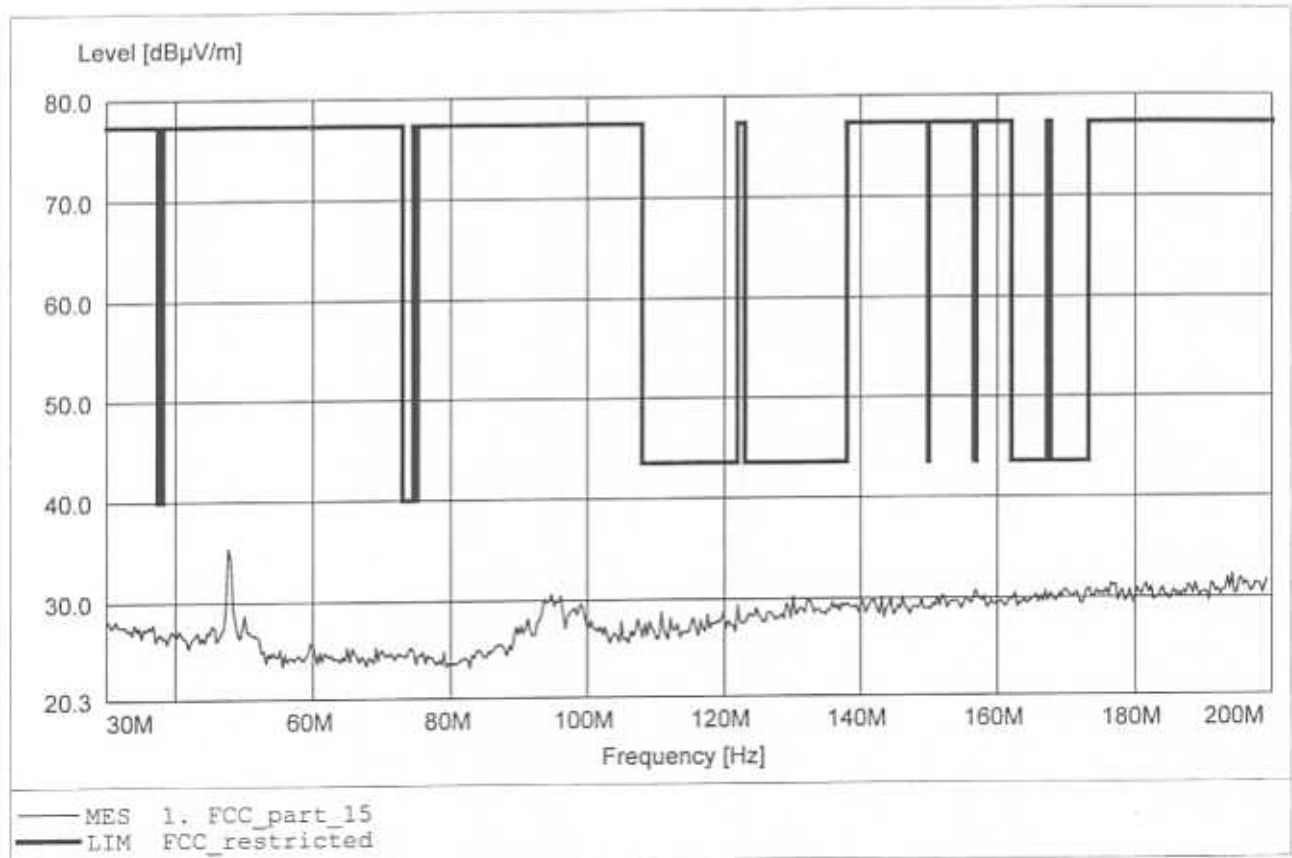
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2441 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 24.882GHz, Emax: 50.03dBuV/m, RBW: 1MHz



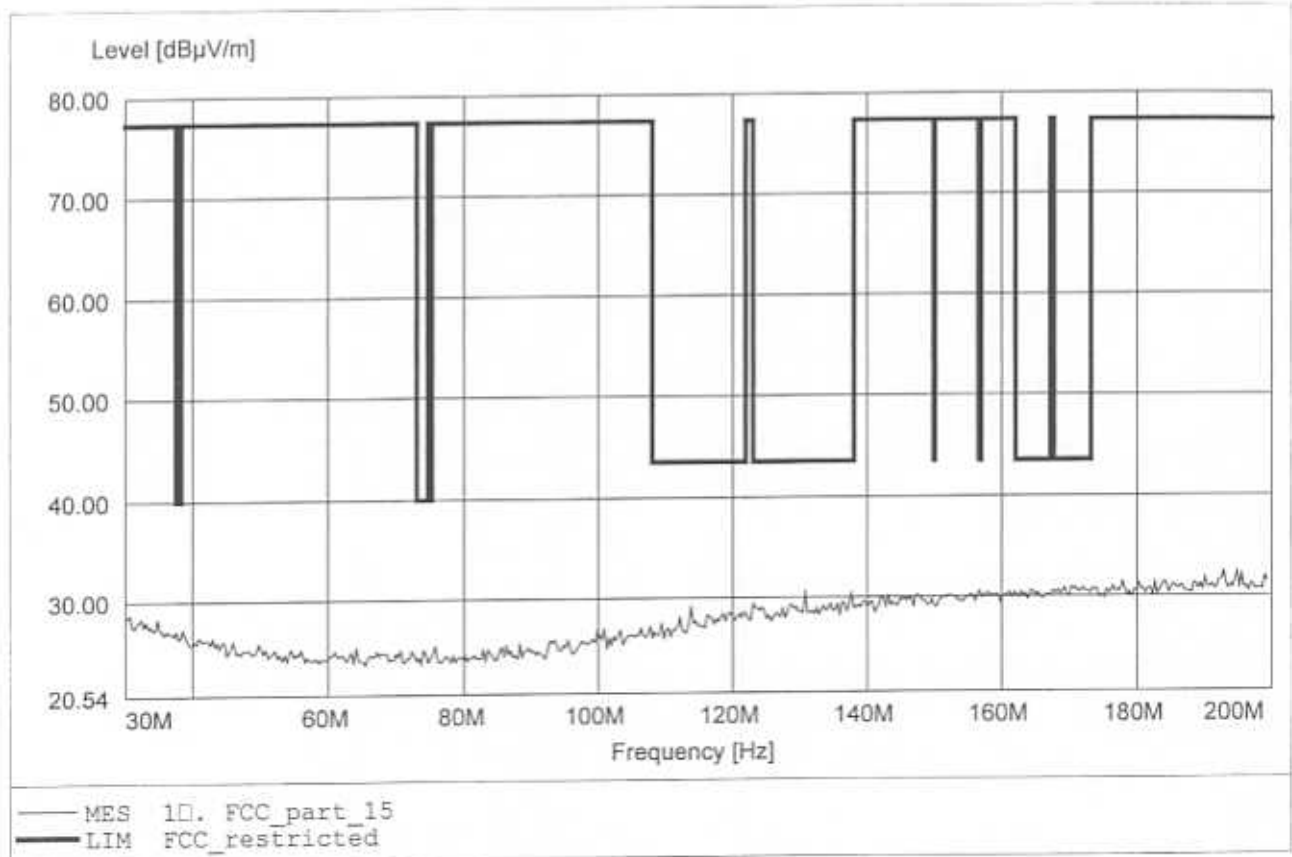
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 47.715MHz, Emax: 35.44dBµV/m, RBW: 100kHz



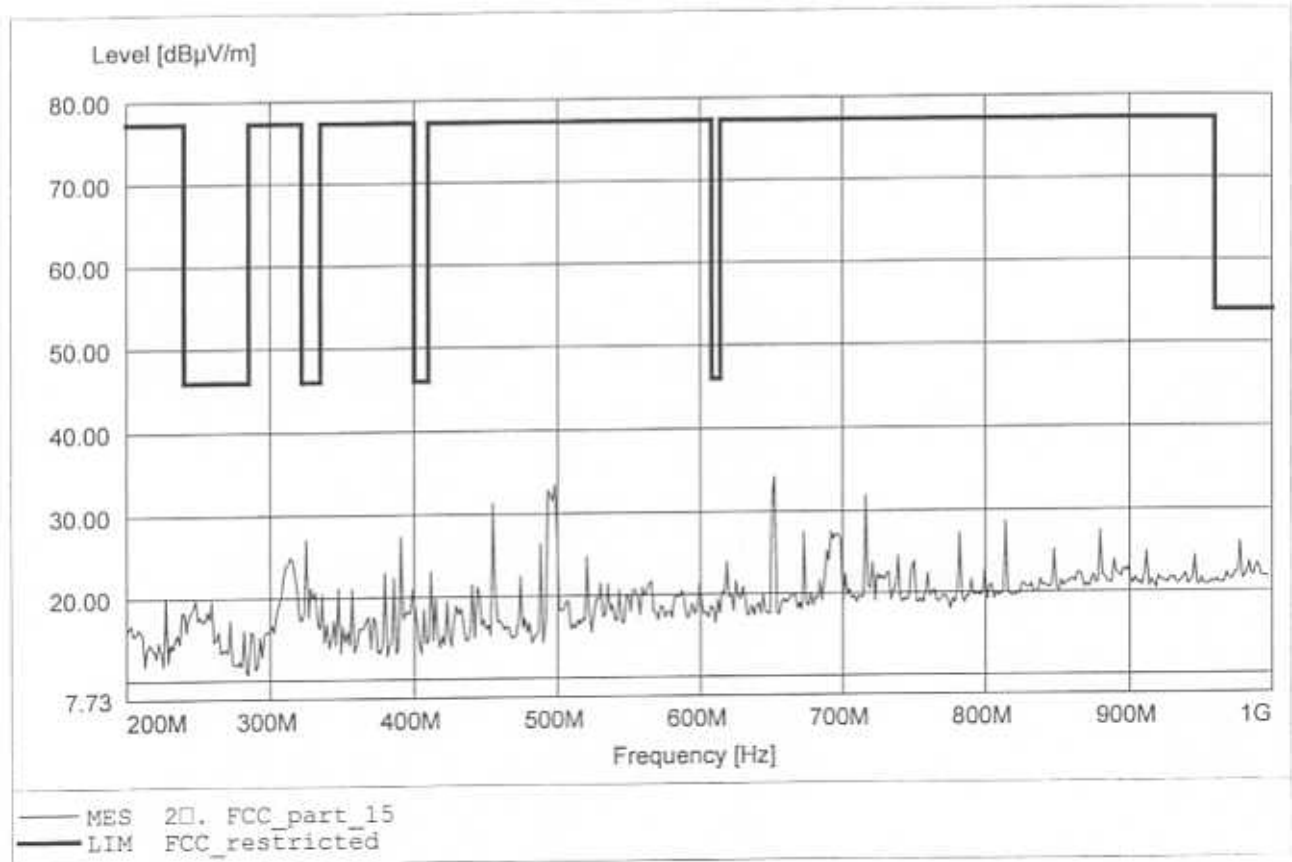
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 192.846MHz, Emax: 32.45dBµV/m, RBW: 100kHz



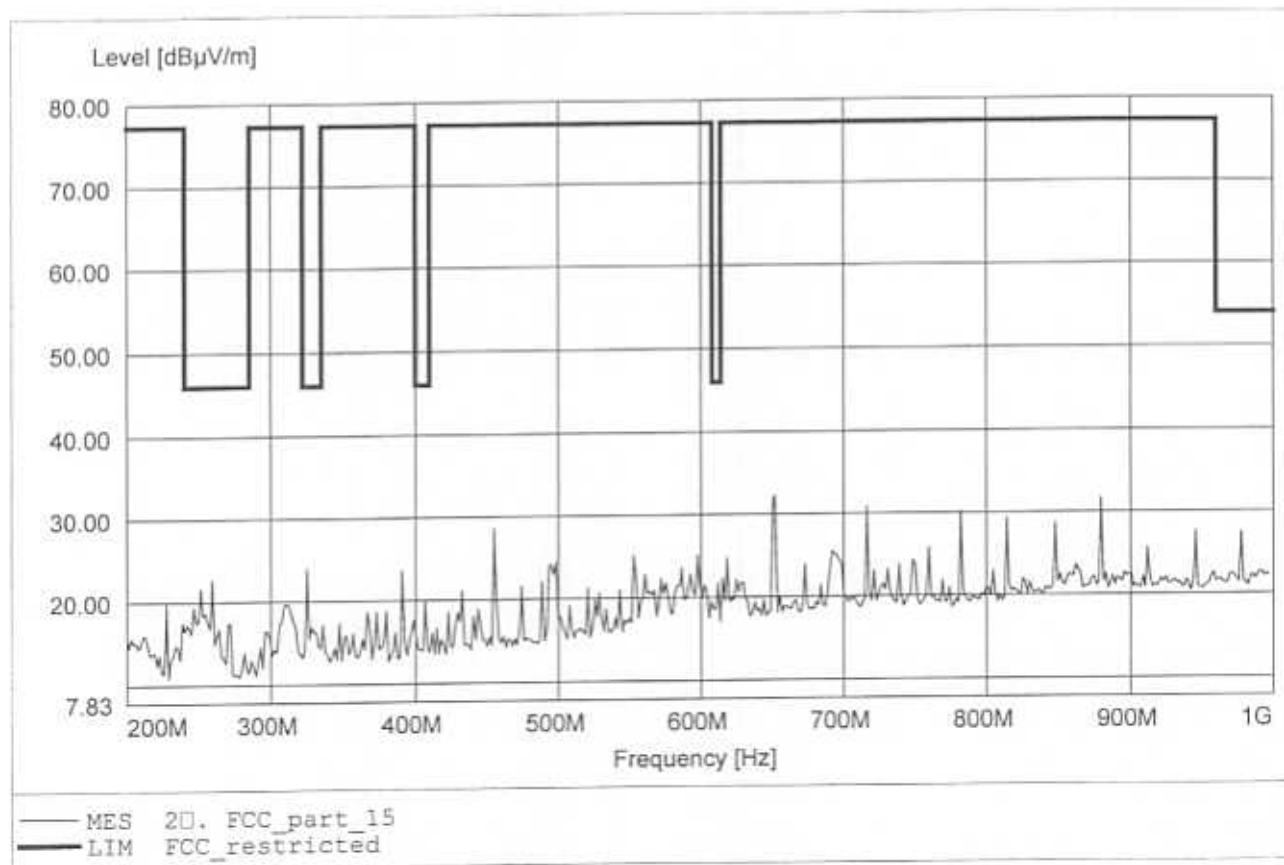
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 652.104MHz, Emax: 34.16dBµV/m, RBW: 100kHz



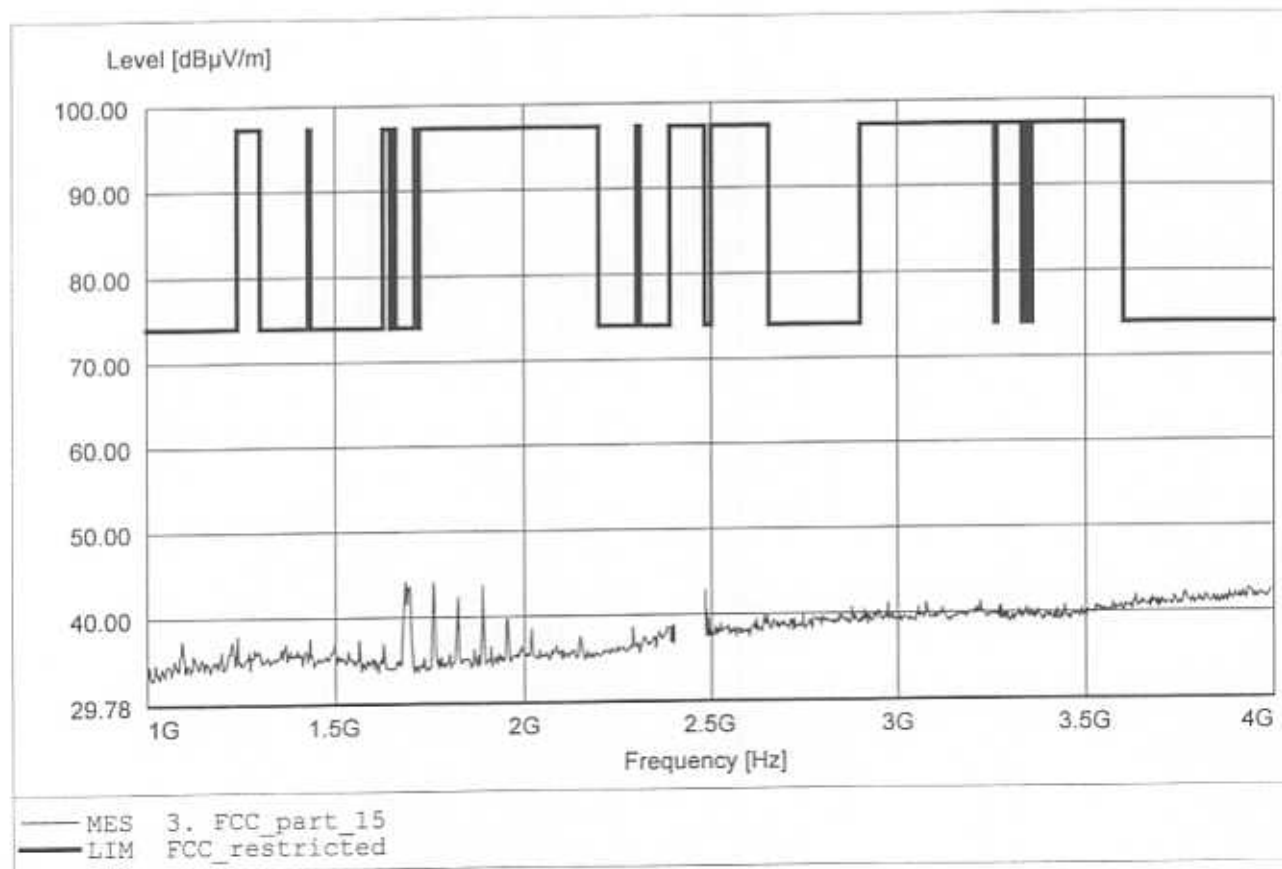
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247 / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 652.104MHz, Emax: 32.28dBµV/m, RBW: 100kHz



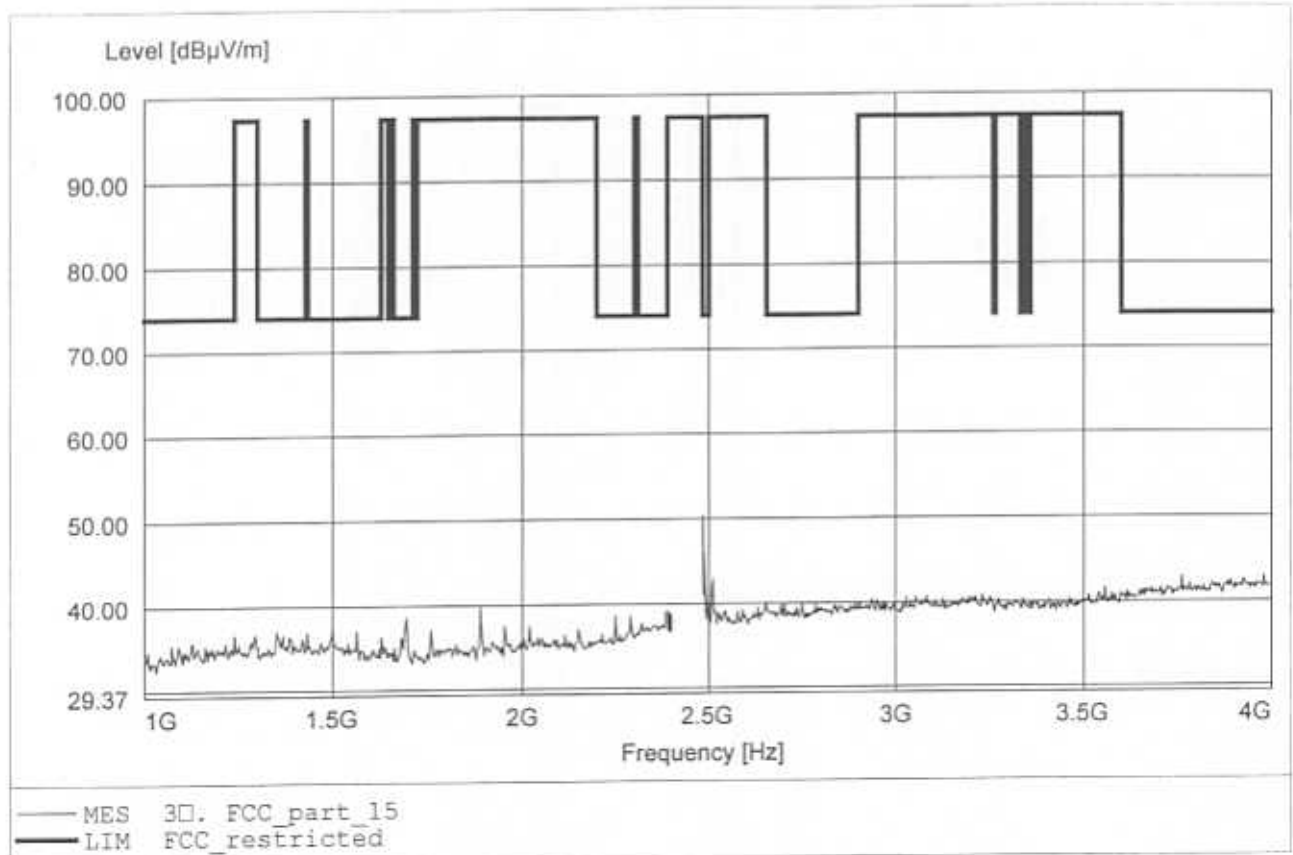
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq: 1.685GHz, Emax: 44.13dBµV/m, RBW: 1MHz



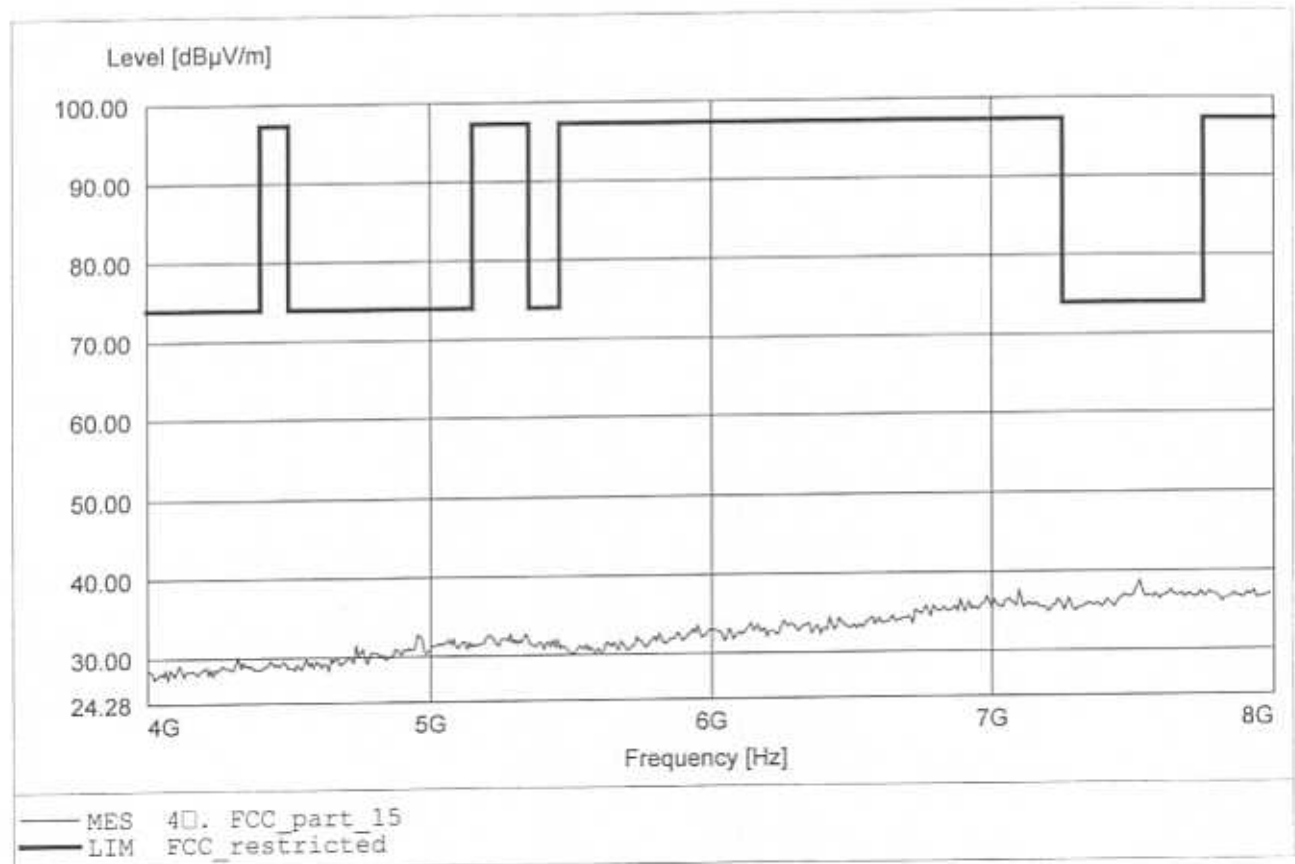
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, amplif.
Comment 2: Freq: 2.484GHz, Emax: 50.39dBμV/m, RBW: 1MHz



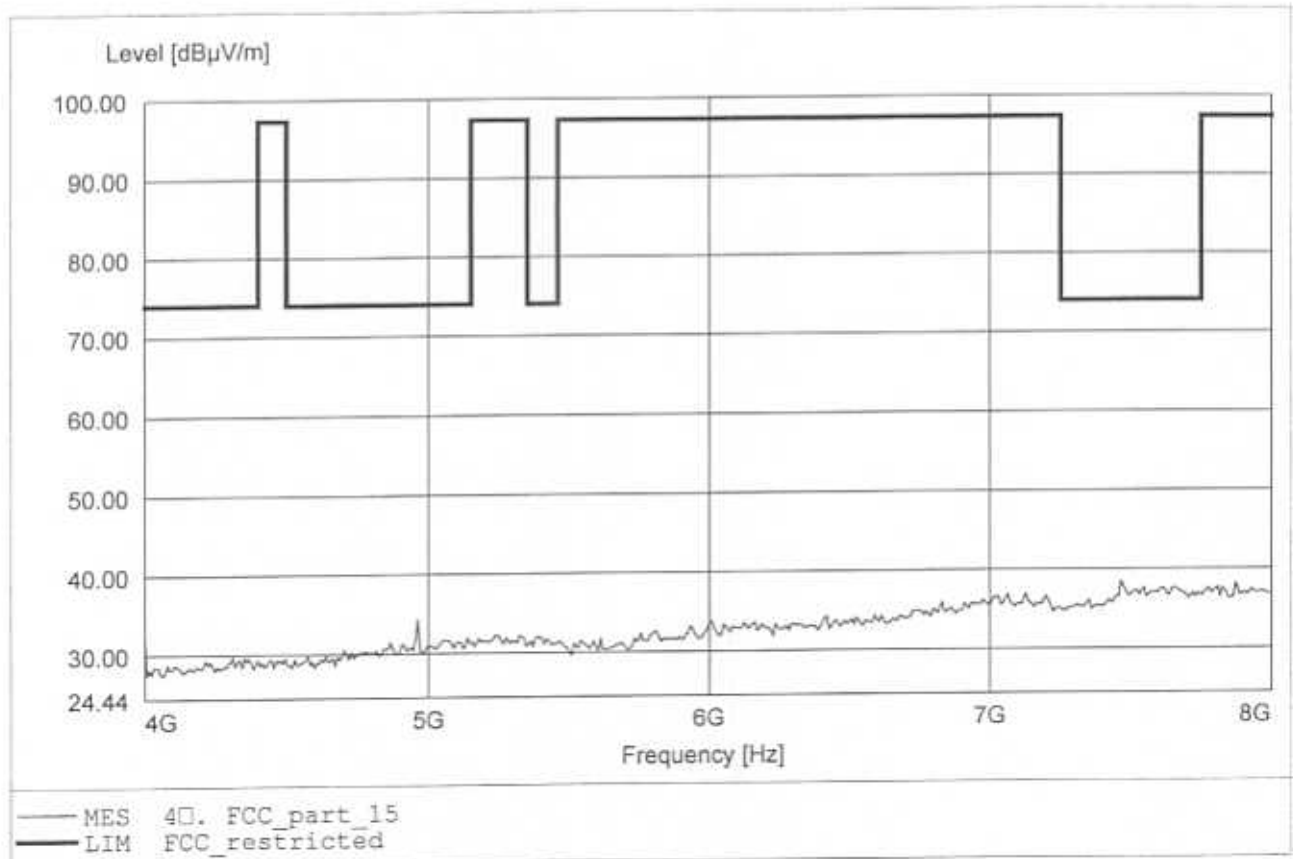
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, ampl.+HP.
Comment 2: Freq: 7.519GHz, Emax: 38.80dBµV/m, RBW: 1MHz



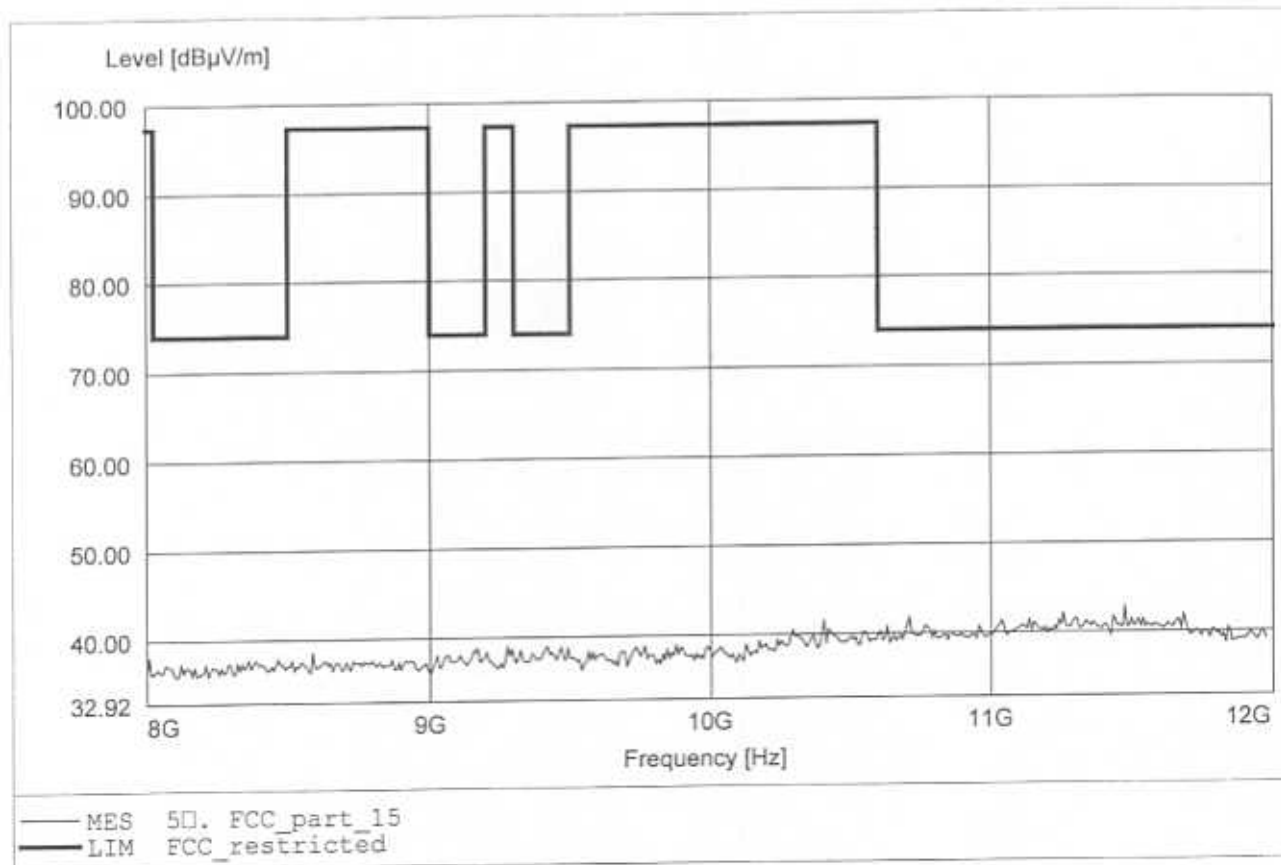
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, ampl.+HP.
Comment 2: Freq: 7.463GHz, Emax: 38.51dBuV/m, RSW: 1MHz



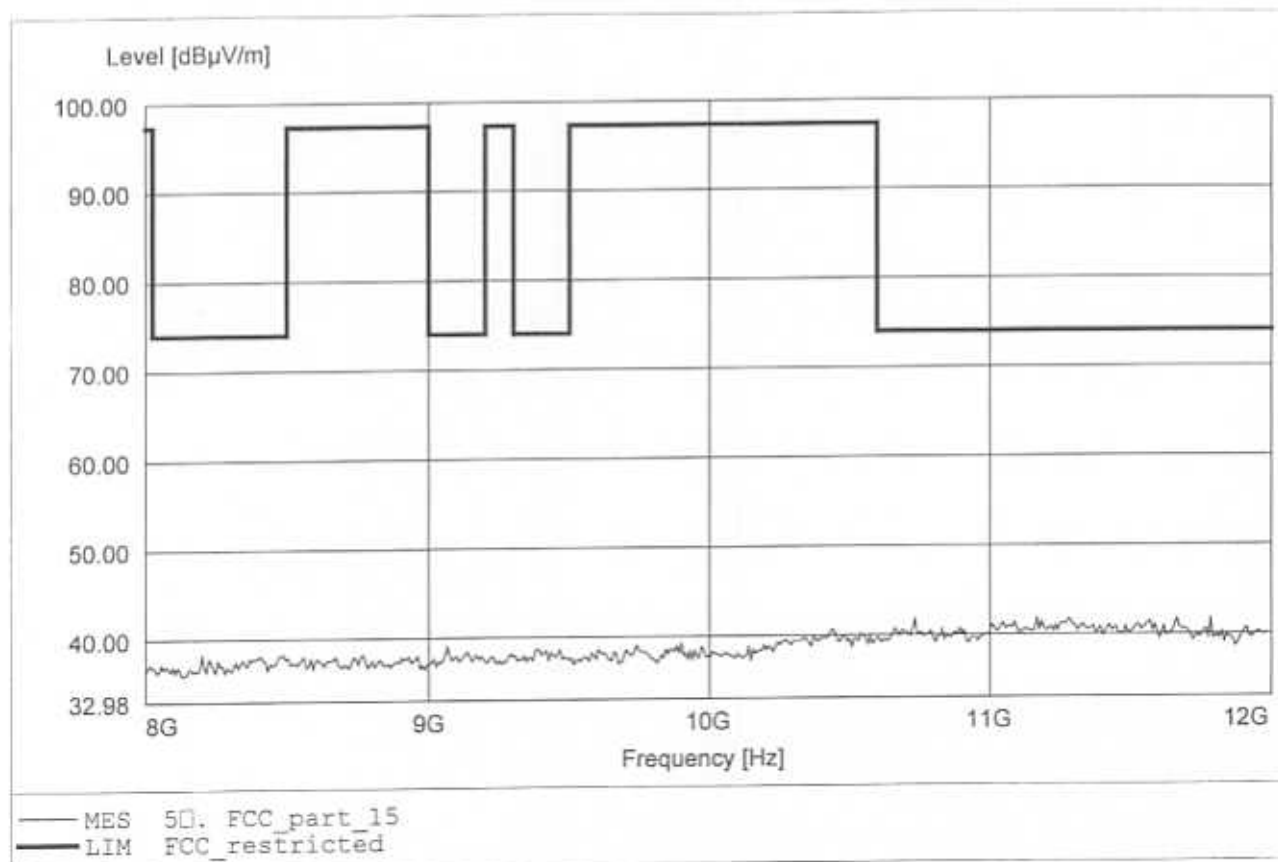
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, ampl.+HP.
Comment 2: Freq: 11.471GHz, Emax: 42.90dBµV/m, RBW: 1MHz



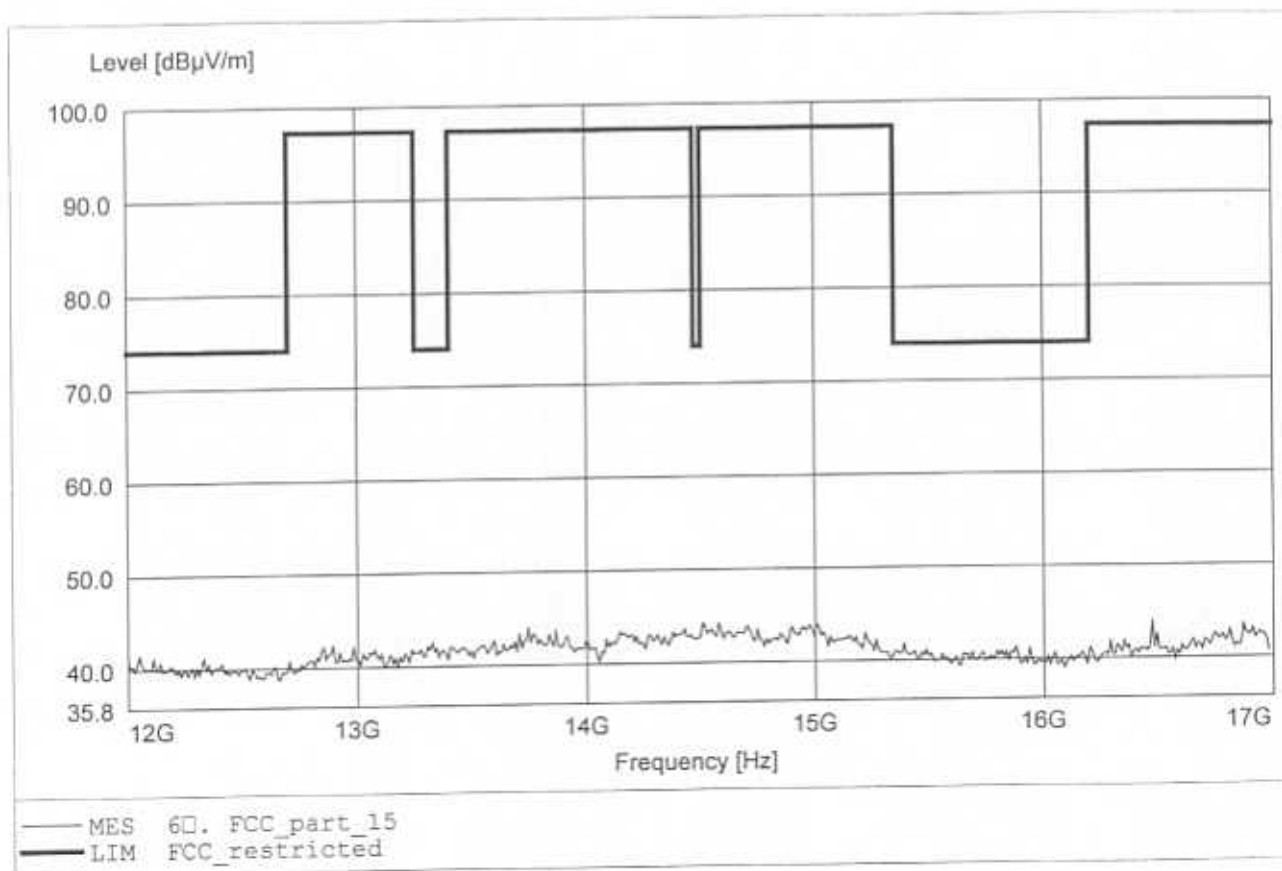
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to §15.247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, ampl.+HP.
Comment 2: Freq: 11.166GHz, Emax: 41.88dBuV/m, RBW: 1MHz



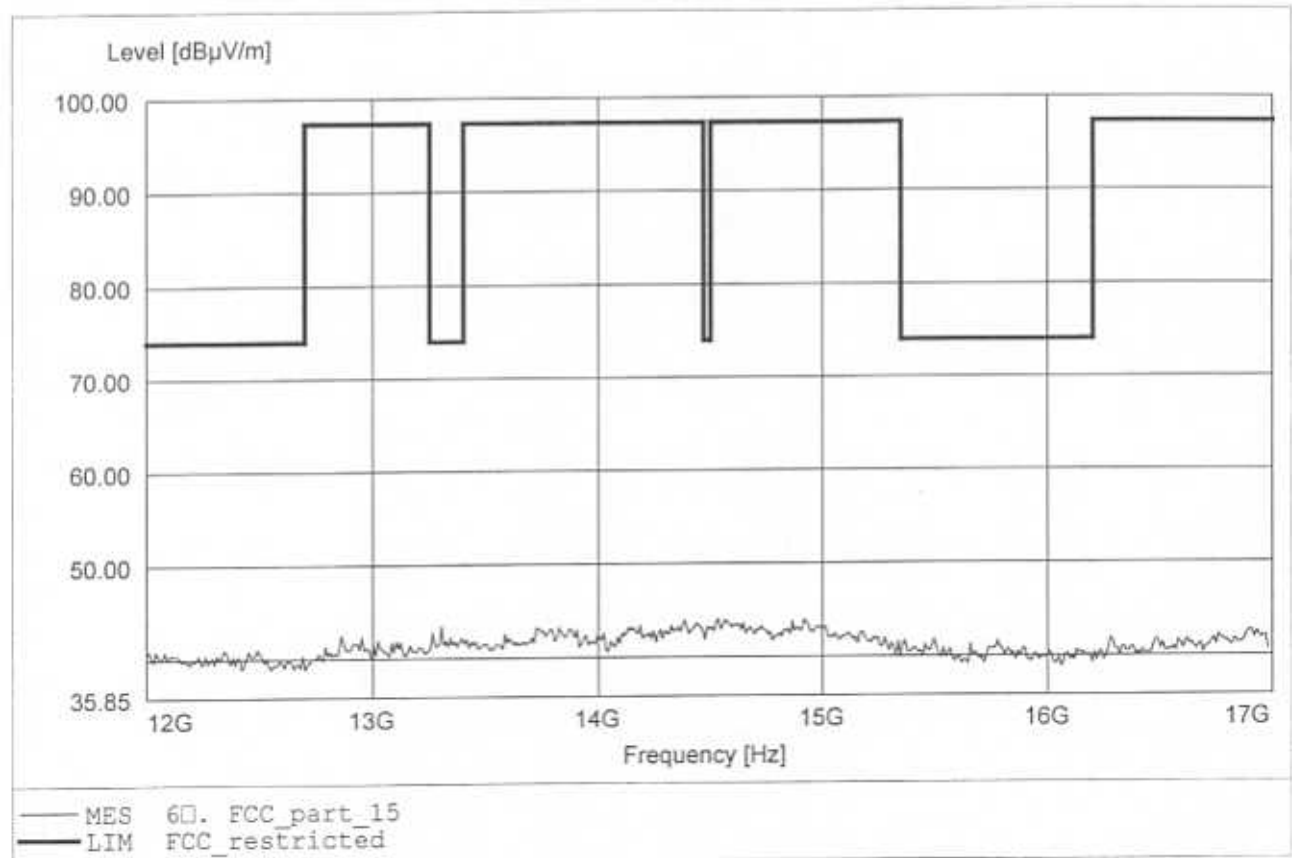
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom: 23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, ampl.+HP.
Comment 2: Freq: 14.505GHz, Emax: 44.31dBuV/m, RBW: 1MHz



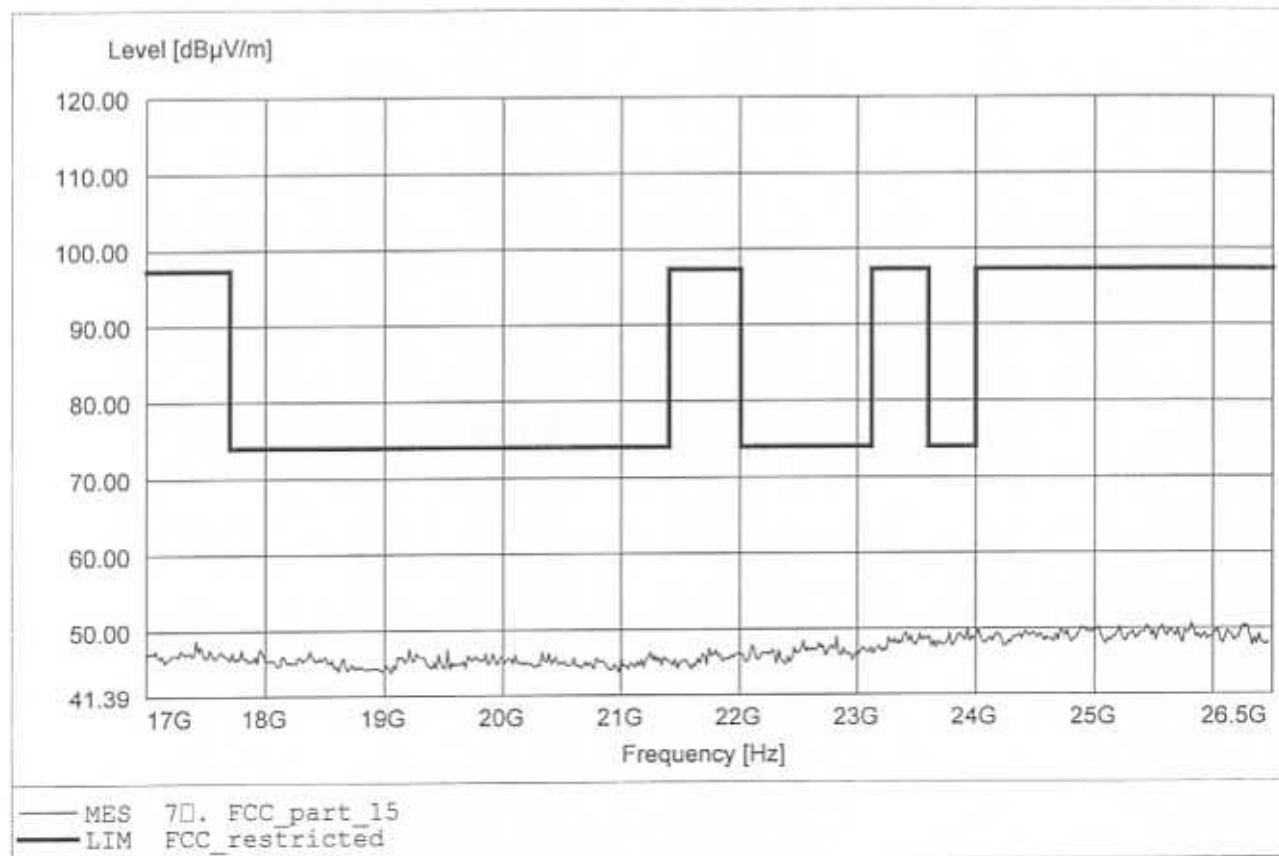
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: BBHA2190D, ampl.+HP.
Comment 2: Freq: 14.535GHz, Emax: 44.05dBµV/m, RBW: 1MHz



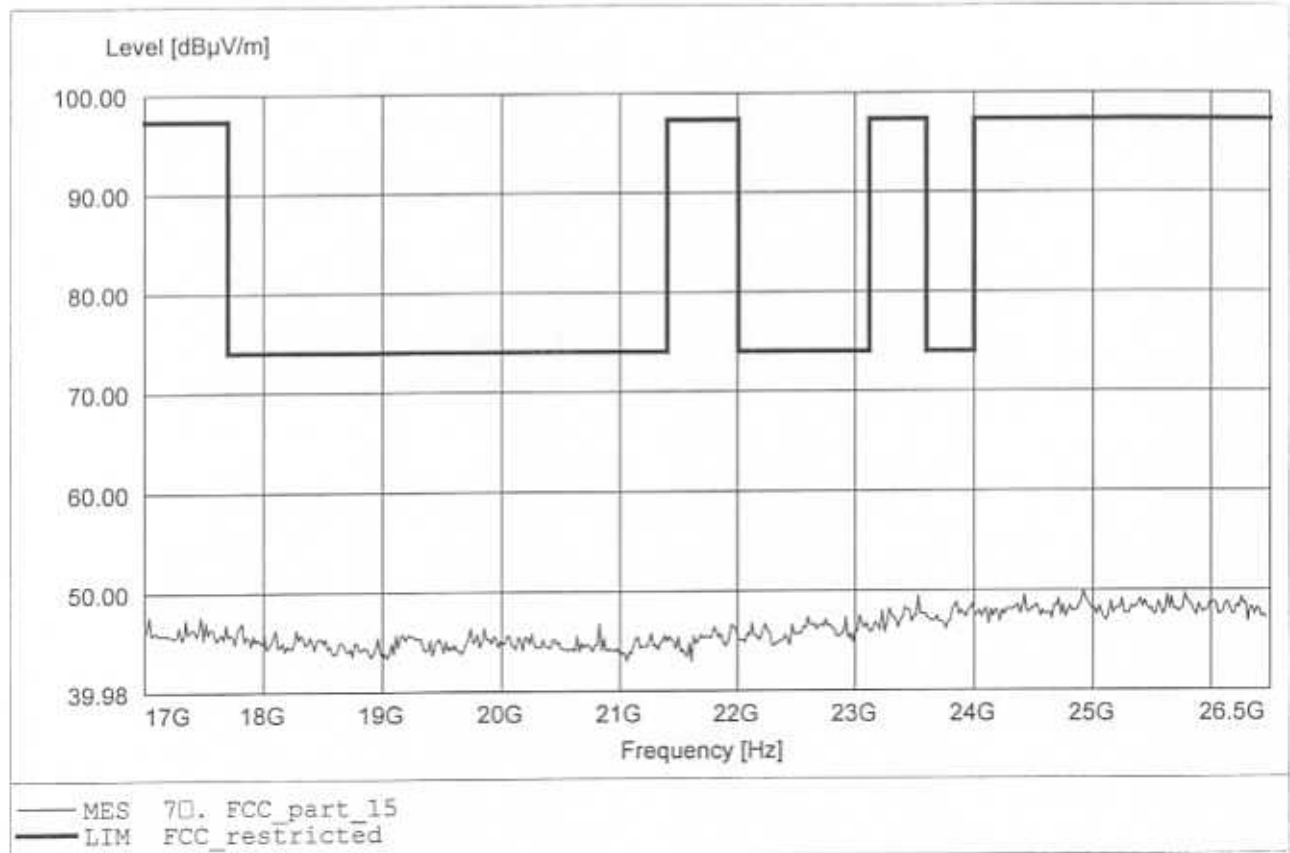
Spurious emissions Field Strength Tx
FCC RULES PART 15, SUBPART C

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 25.815GHz, Emax: 50.69dBuV/m, RBW: 1MHz



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

EUT : USB Bluetooth Adaptor / 2480 MHz
Model: BL-554
Approval Holder: Brain Boxes Limited
Operating Condition: Tnom:23°C / Unom: 230 V AC (powered by USB port)
Test Site / Operator: ETS / Mr. Hoppe
Test Specification: according to S15247, Limit 20 dB up peak detector / mode: Tx
Comment 1: Dist.: 3m, Ant.: HL025, amplif.
Comment 2: Freq: 24.920GHz, Emax: 49.99dBµV/m, RBW: 1MHz



Appendix D

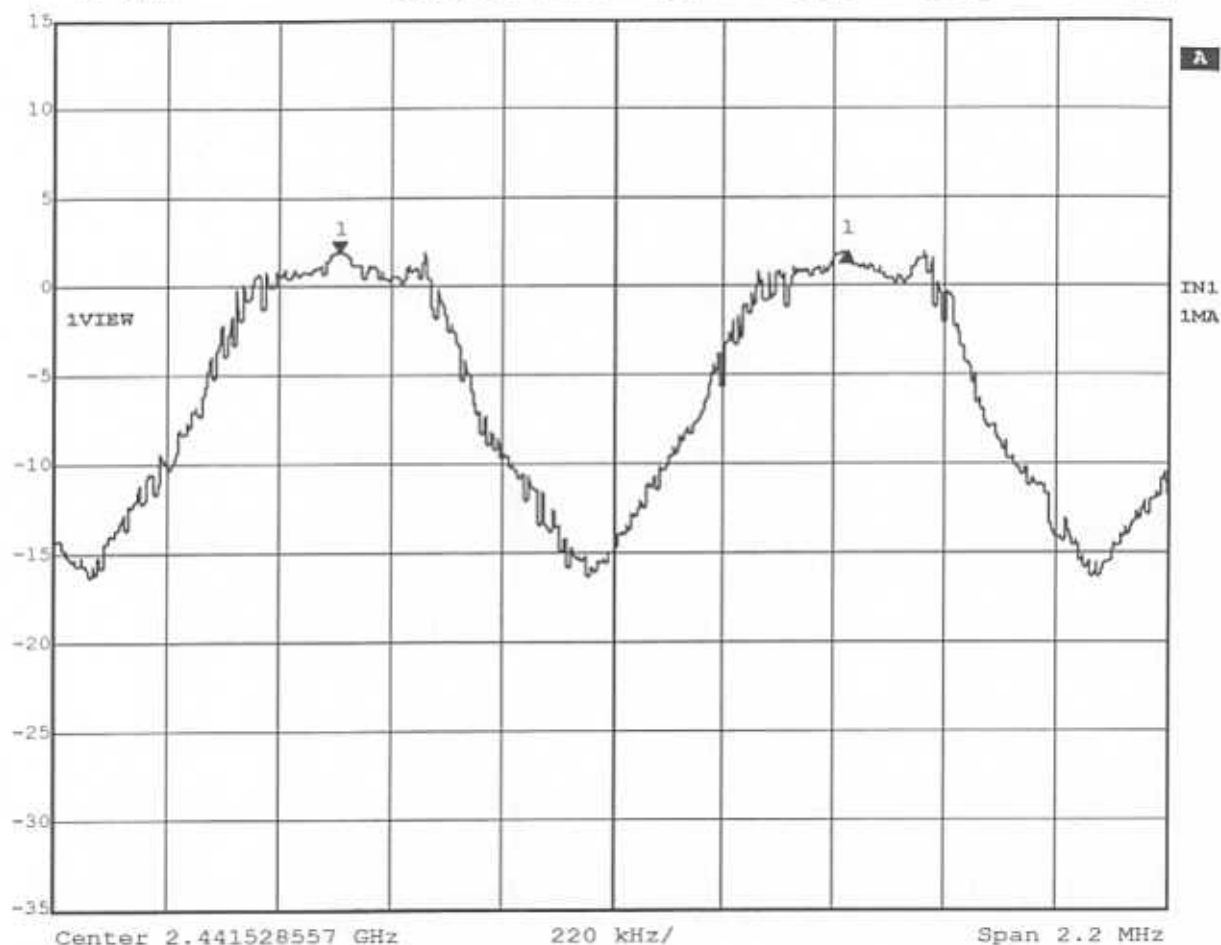
Spurious Emissions conducted - Transmitter operating

Appendix E

Carrier Frequency Separation



Delta 1 [T1] RBW 100 kHz RF Att 40 dB
Ref Lvl -0.01 dB VBW 100 kHz
15 dBm 1.00521042 MHz SWT 5 ms Unit dBm



Title: Carrier Frequency Separation
Comment A: Brain Boxes Limited USB Bluetooth Adaptor BL-554
Date: 16.JUL.2002 09:55:27

Appendix F

Number of Hopping Frequencies



Ref Lvl
25 dBm

Marker 1 [T1]

2.02 dBm

2.41504910 GHz

RBW

50 kHz

VBW

50 kHz

SWT

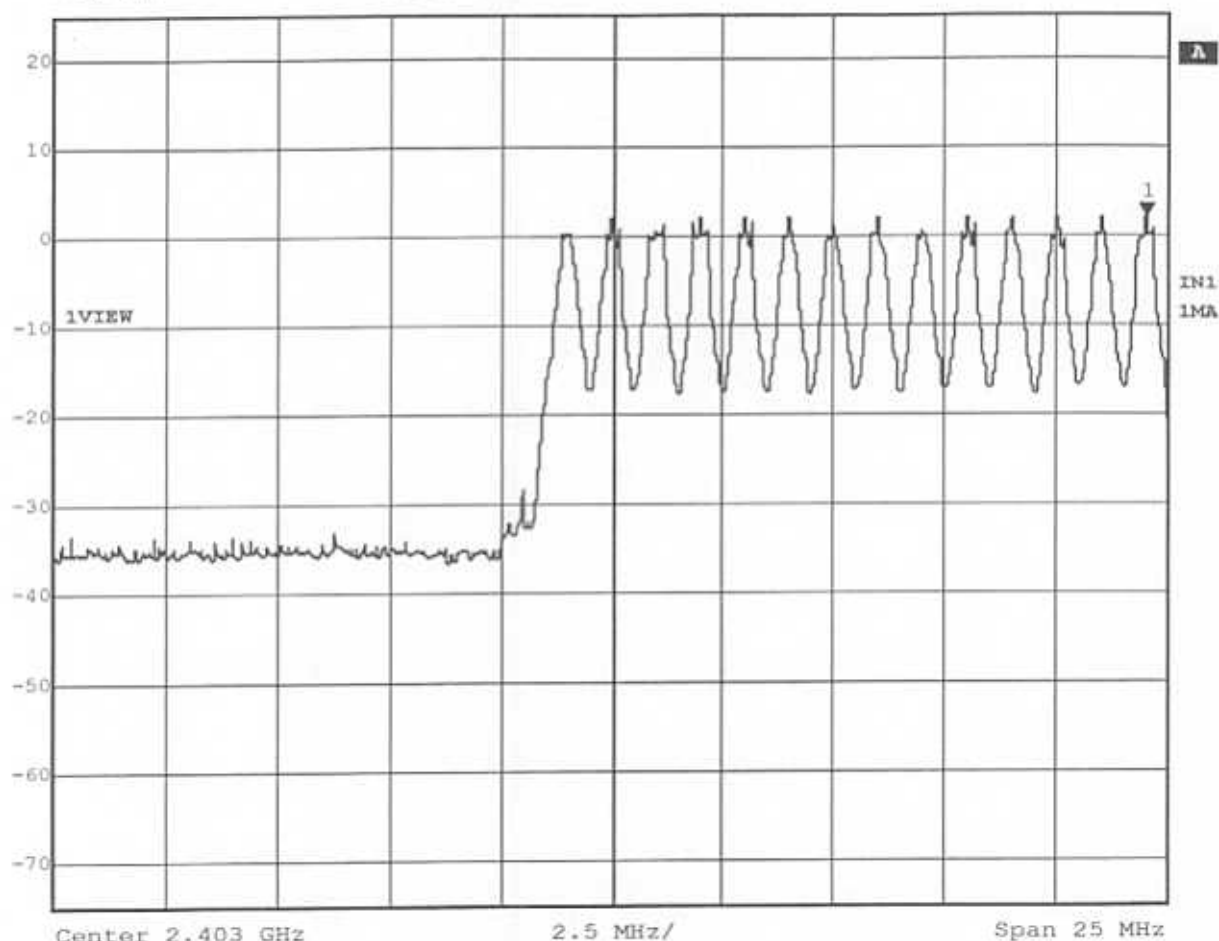
25 ms

RF Att

50 dB

Unit

dBm



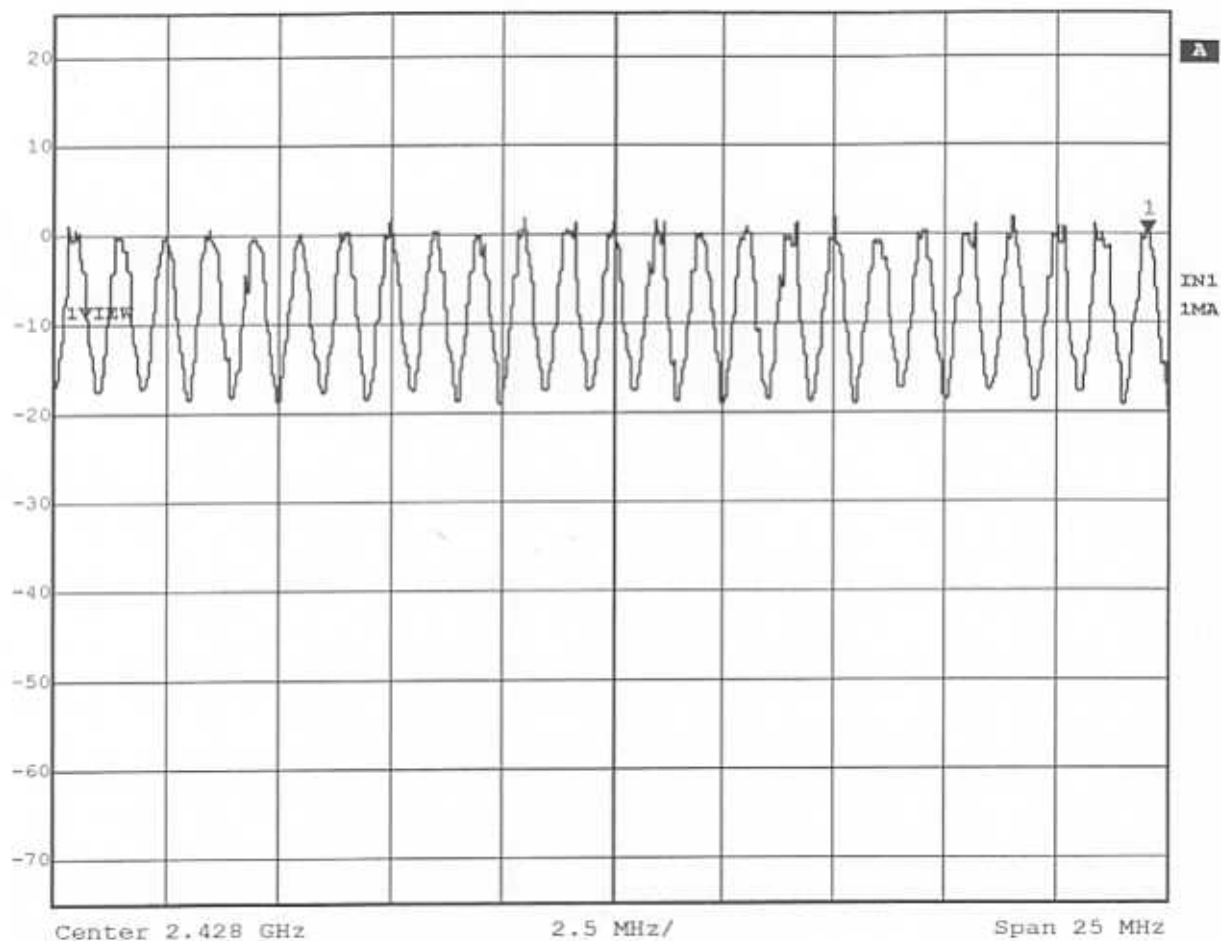
Title: Number of Hopping Frequencies Ch.: 0-13

Comment A: Brain Boxes Limited USB Bluetooth Adaptor B1-554

Date: 16.JUL.2002 10:04:55



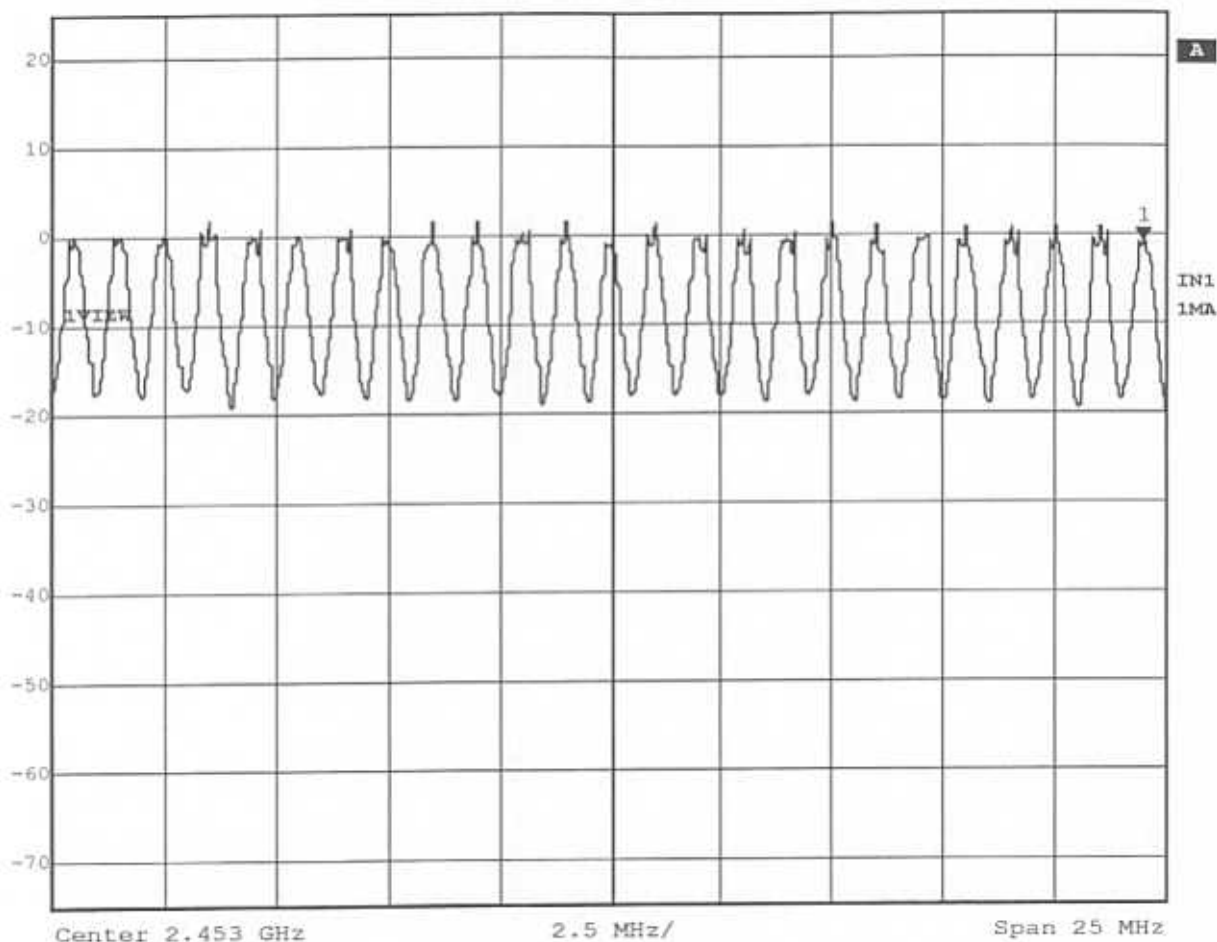
Ref Lvl	Marker 1 [T1]	RBW	50 kHz	RF Att	50 dB
25 dBm	-0.19 dBm	VBW	50 kHz		
	2.44004910 GHz	SWT	25 ms	Unit	dBm



Title: Number of Hopping Frequencies Ch.: 14-38
Comment A: Brain Boxes Limited USB Bluetooth Adaptor BL-554
Date: 16.JUL.2002 10:08:48



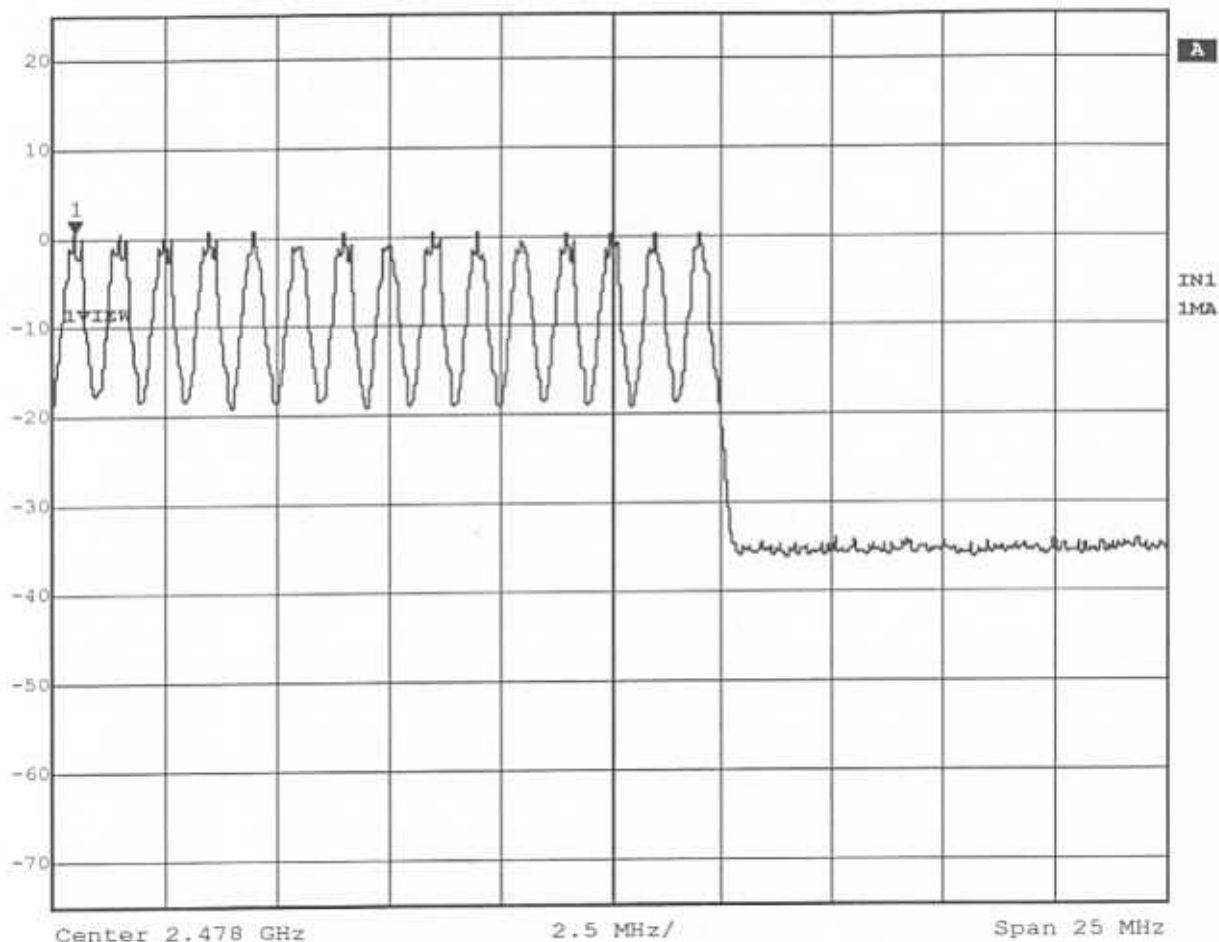
Marker 1 [T1] RBW 50 kHz RF Att 50 dB
Ref Lvl -0.95 dBm VBW 50 kHz
25 dBm 2.46499900 GHz SWT 25 ms Unit dBm



Title: Number of Hopping Frequencies Ch.: 39-63
Comment A: Brain Boxes Limited USB Bluetooth Adaptor BL-554
Date: 16.JUL.2002 10:15:23



Marker 1 [T1] RBW 50 kHz RF Att 50 dB
Ref Lvl 0.60 dBm VEW 50 kHz
25 dBm 2.46600100 GHz SWT 25 ms Unit dBm



Title: Number of Hopping Frequencies Ch.: 64-78
Comment A: Brain Boxes Limited USB Bluetooth Adaptor BL-554
Date: 16.JUL.2002 10:25:49

Appendix G

Time of Occupancy (Dwell Time)



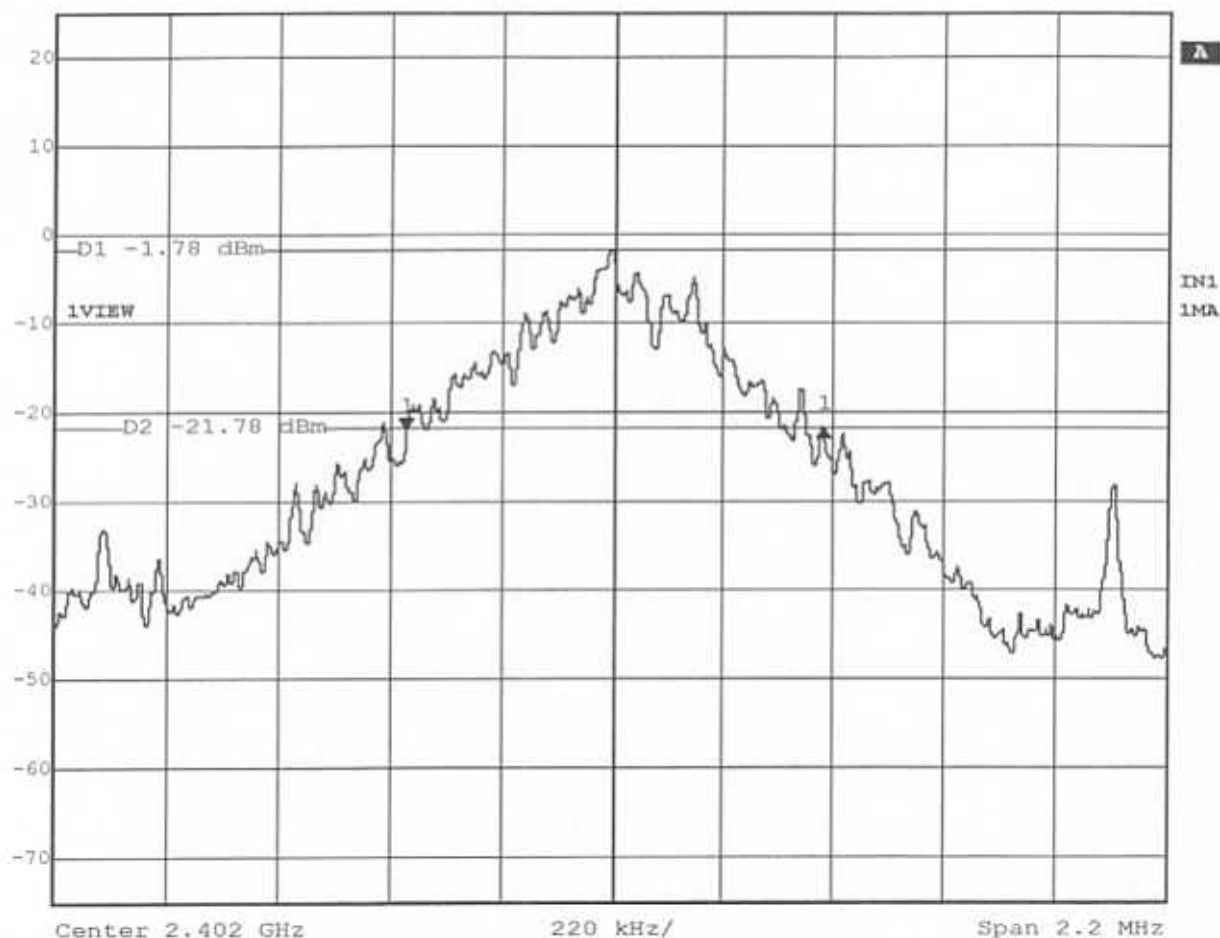
Title: Dwell Time
Comment A: Brain Boxes Limited USB Bluetooth Adaptor BL-554
Date: 16.JUL.2002 09:47:35

Appendix H

20dB Bandwidth



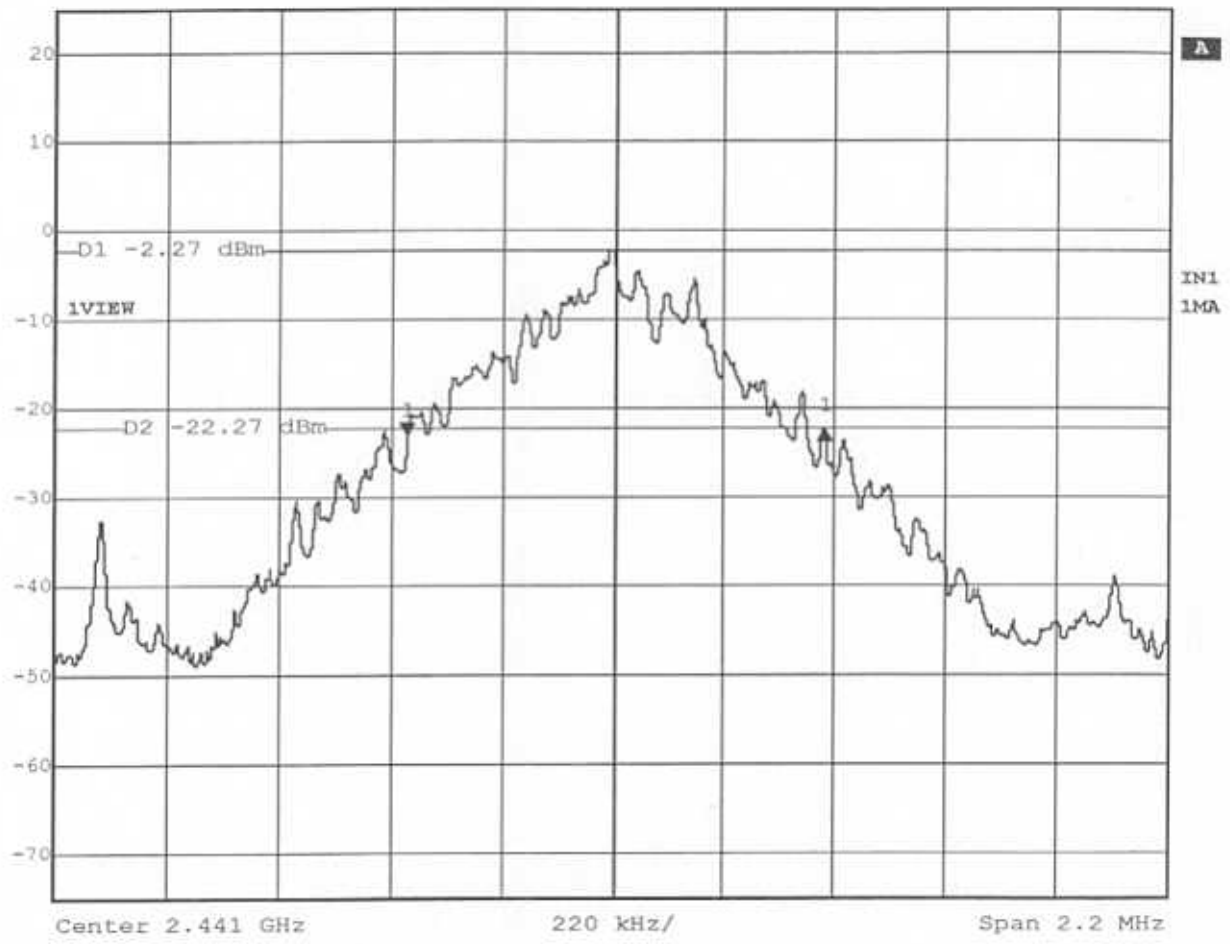
Ref Lvl	Delta 1 [T1]	RBW	10 kHz	RF Att	50 dB
25 dBm	0.20 dB	VBW	10 kHz		
	828.85771543 kHz	SWT	56 ms	Unit	dBm



Title: -20 dB Bandwidth Ch.: 0
Comment A: Brain Boxes Limited USB Bluetooth Adaptor BL-554
Date: 16.JUL.2002 09:29:42



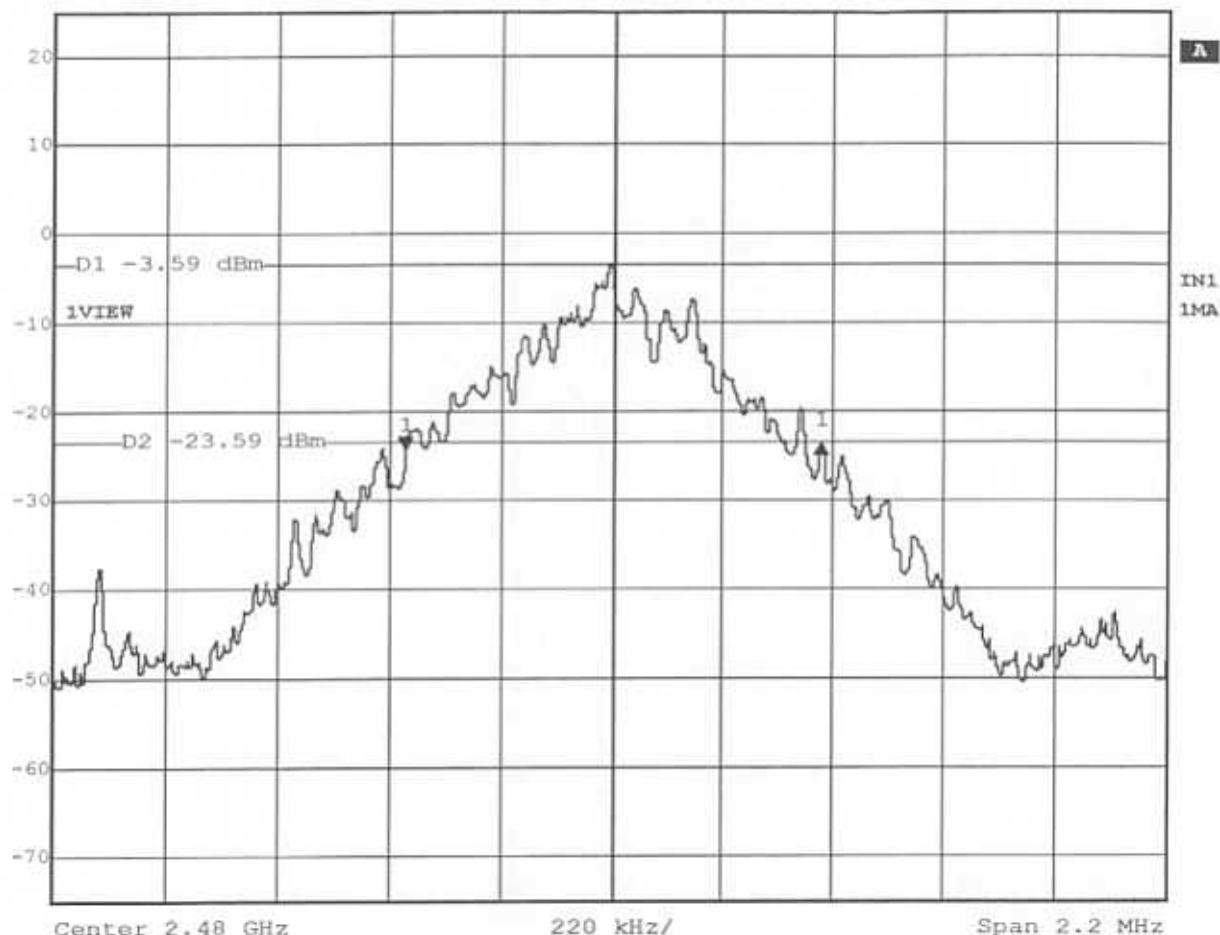
Ref Lvl	Delta 1 [T1]	RBW	10 kHz	RF Att	50 dB
25 dBm	0.47 dB	VBW	10 kHz		
	828.85771543 kHz	SWT	56 ms	Unit	dBm



Title: -20 dB Bandwidth Ch.: 39
Comment A: Brain Boxes Limited USB Bluetooth Adaptor BL-554
Date: 16.JUL.2002 09:41:17



Delta 1 [T1]	RBW	10 kHz	RF Att	50 dB
Ref Lvl	0.49 dB	VSW	10 kHz	
25 dBm	824.44889779 kHz	SWT	56 ms	Unit dBm



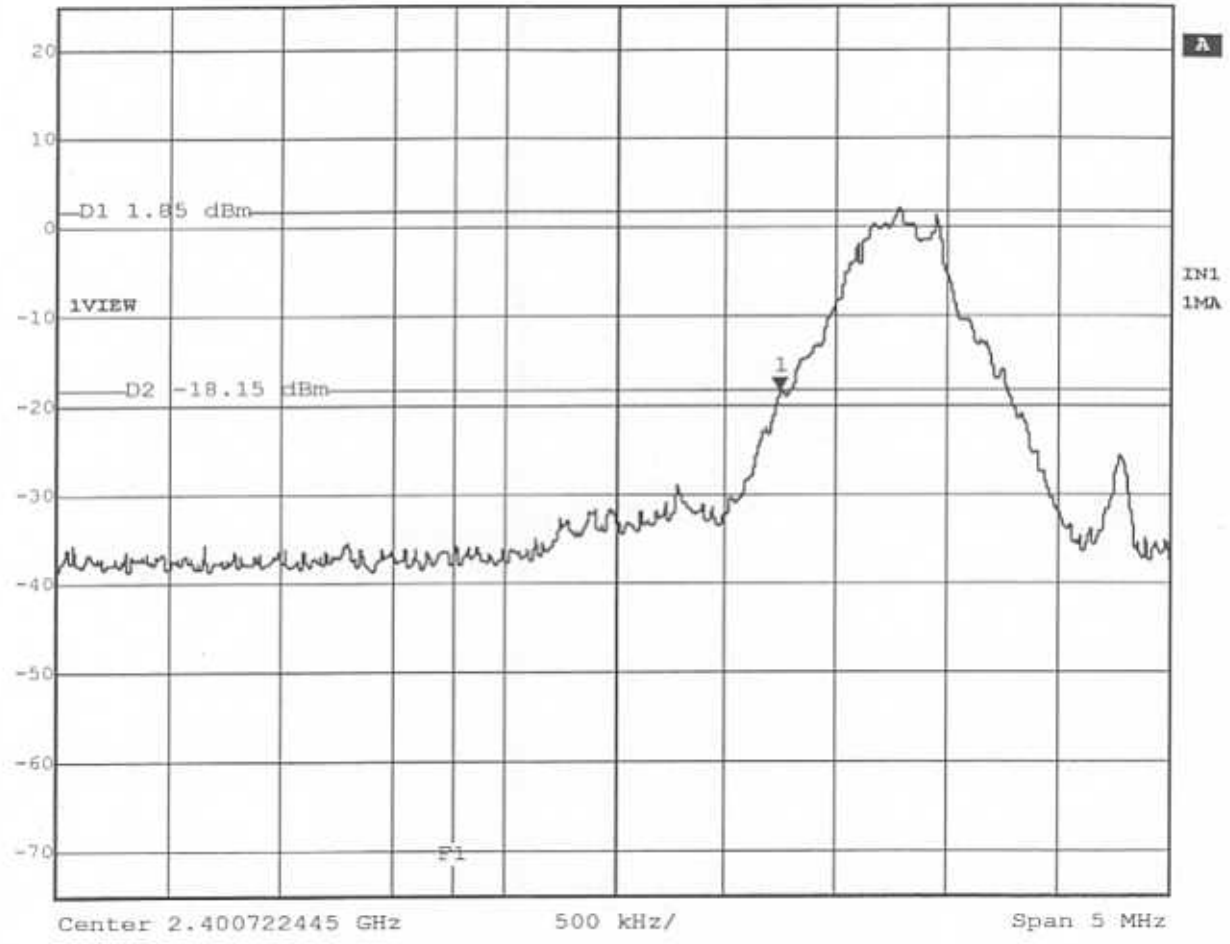
Title: -20 dB Bandwidth Ch.: 78
Comment A: Brain Boxes Limited USB Bluetooth Adaptor BL-554
Date: 16.JUL.2002 09:44:20

Appendix I

Band-edge Compliance of RF Emissions



Ref Lvl	Marker 1 [T1]	RBW	50 kHz	RF Att	50 dB
25 dBm	-18.45 dBm	VBW	50 kHz		
	2.40146894 GHz	SWT	5 ms	Unit	dBm

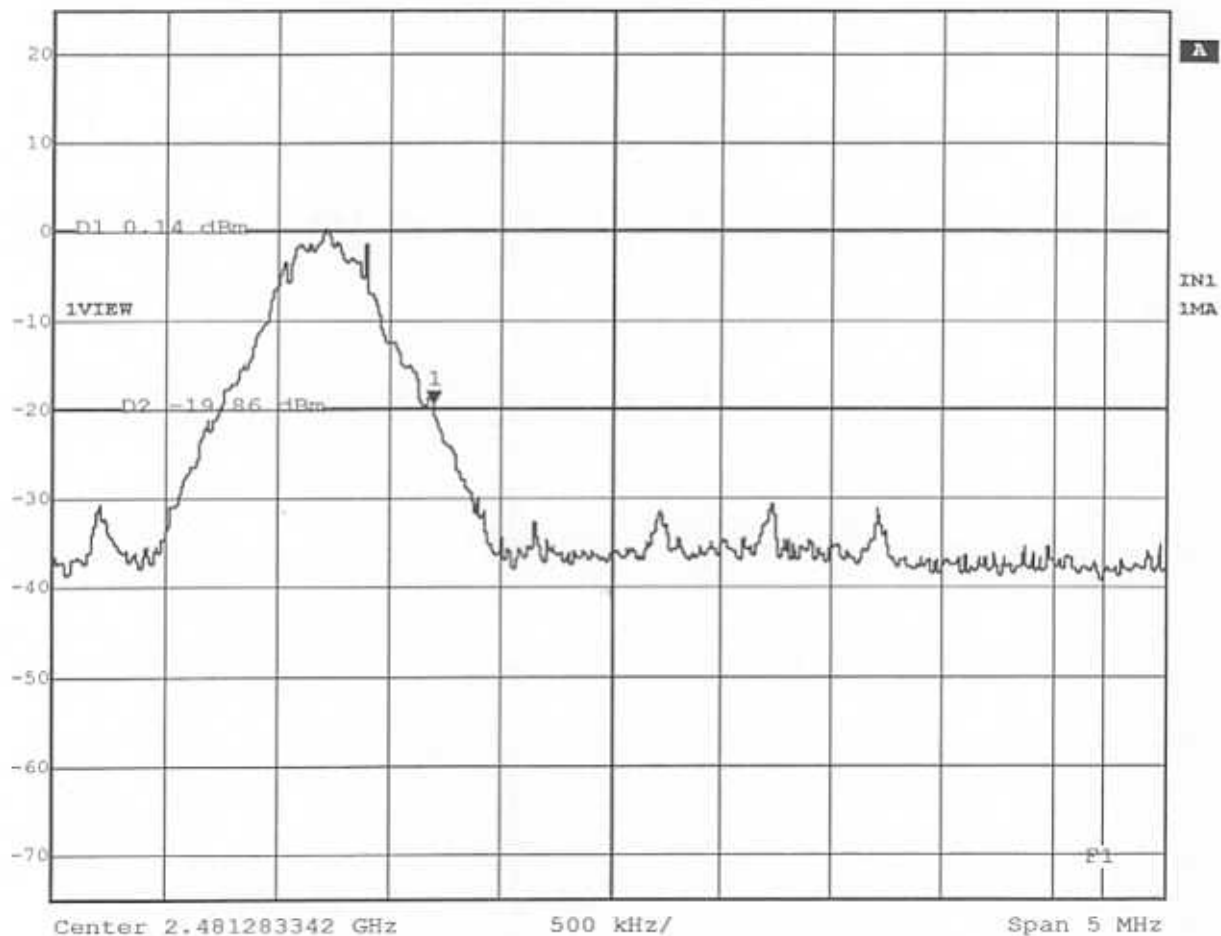


Center 2.400722445 GHz 500 kHz/ Span 5 MHz

Title: Band-edge Compliance of RF Conducted Emissions Ch.: 0
Comment A: Brain Boxes Limited USB Bluetooth Adaptor BL-554
Date: 16.JUL.2002 09:21:13



Ref Lvl	Marker 1 [T1]	RBW	50 kHz	RF Att	50 dB
25 dBm	-19.49 dBm	VBW	50 kHz		
	2.48048675 GHz	SWT	5 ms	Unit	dBm



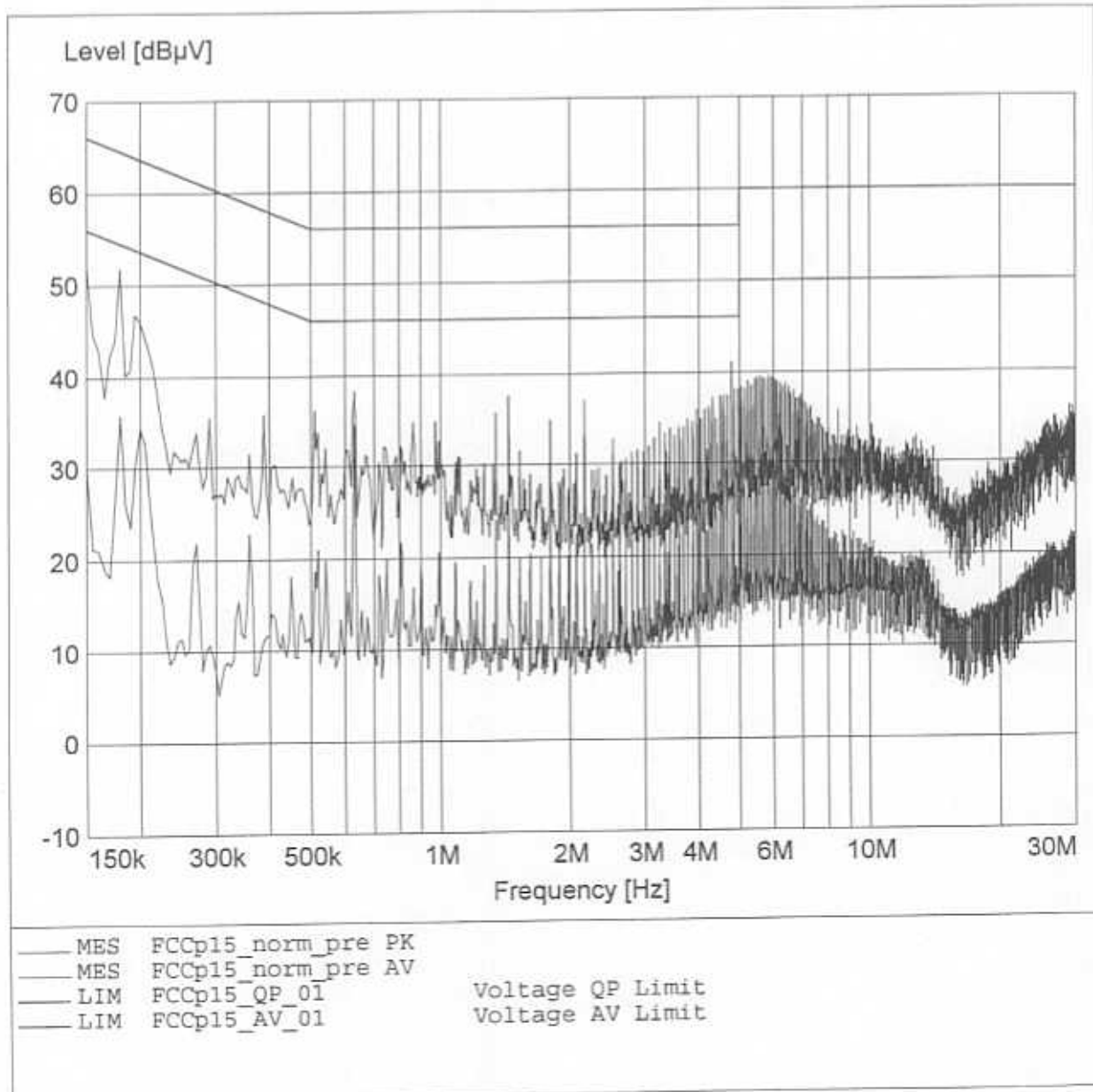
Title: Band-edge Compliance of RF Conducted Emissions Ch.: 78
Comment A: Brain Boxes Limited USB Bluetooth Adaptor BL-554
Date: 16.JUL.2002 09:17:44

Appendix J

Conducted Measurement at (AC) Power Line

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

EUT: USB BLUETOOTH ADAPTOR
Manufacturer: BRAIN BOXES LIMITED
Operating Condition: Unom: 120VAC, Tnom: 23°C
Test Site: ETS
Operator: Mr. Pflug
Test Specification: V-Network: ESH2-Z5
Comment: model: BL-554 mode: link
(connected on the DELL Inspiron 7000, power supply ADP-70BB)

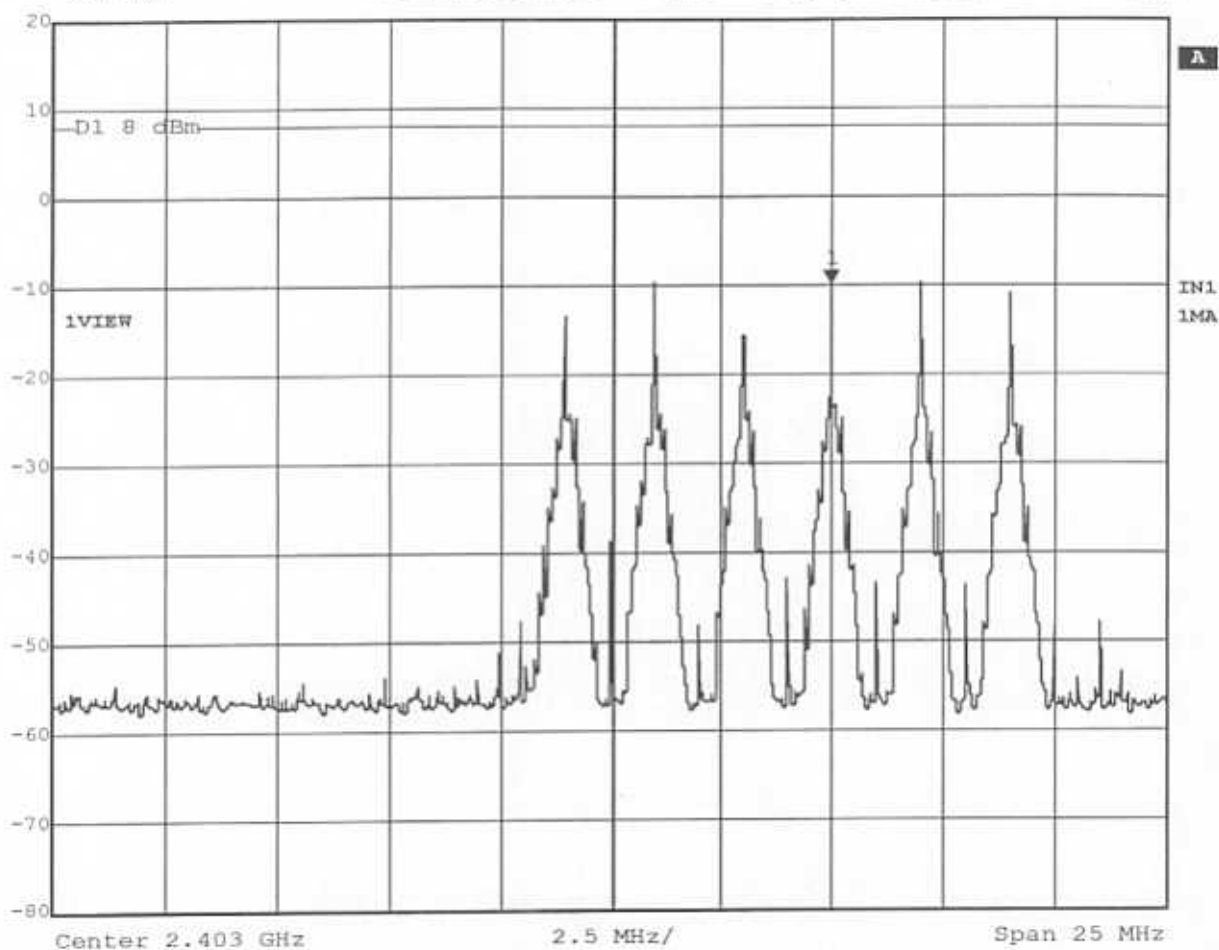


Appendix K

Peak Power Spectral Density (Master Inquiry Mode)



Marker 1 [T1] RBW 3 kHz RF Att 50 dB
Ref Lvl -9.77 dBm VSW 3 kHz
20 dBm 2.40798497 GHz SWT 10 s Unit dBm



Title: Peak Power Spectral Density (Master Inquiry Mode)
Comment A: Brain Boxes Limited USB Bluetooth Adaptor BL-554
Date: 16.JUL.2002 10:30:35



Ref Lvl
20 dBm

Marker 1 [T1]

-9.99 dBm

2.43298497 GHz

RBW

3 kHz

VBW

3 kHz

SWT

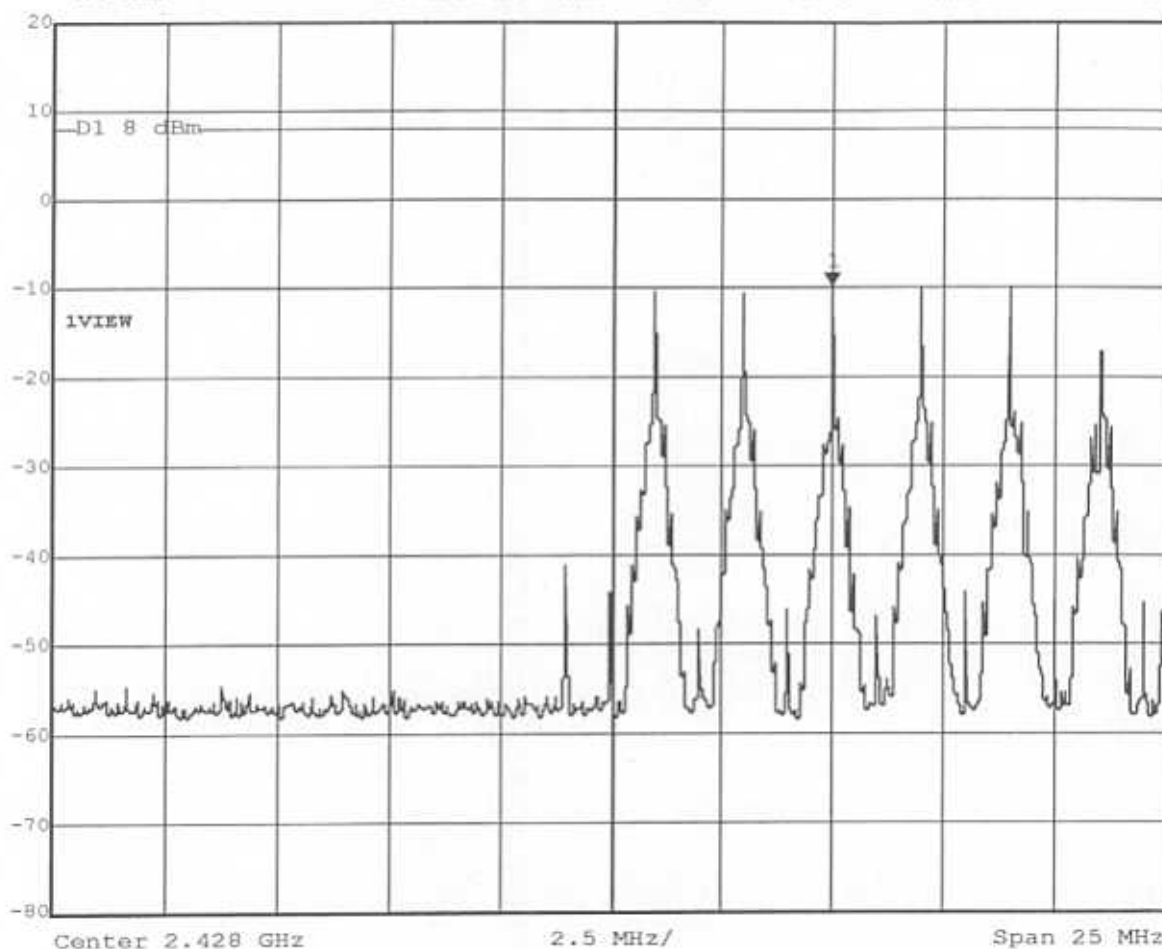
10 s

RF Att

50 dB

Unit

dBm



Center 2.428 GHz

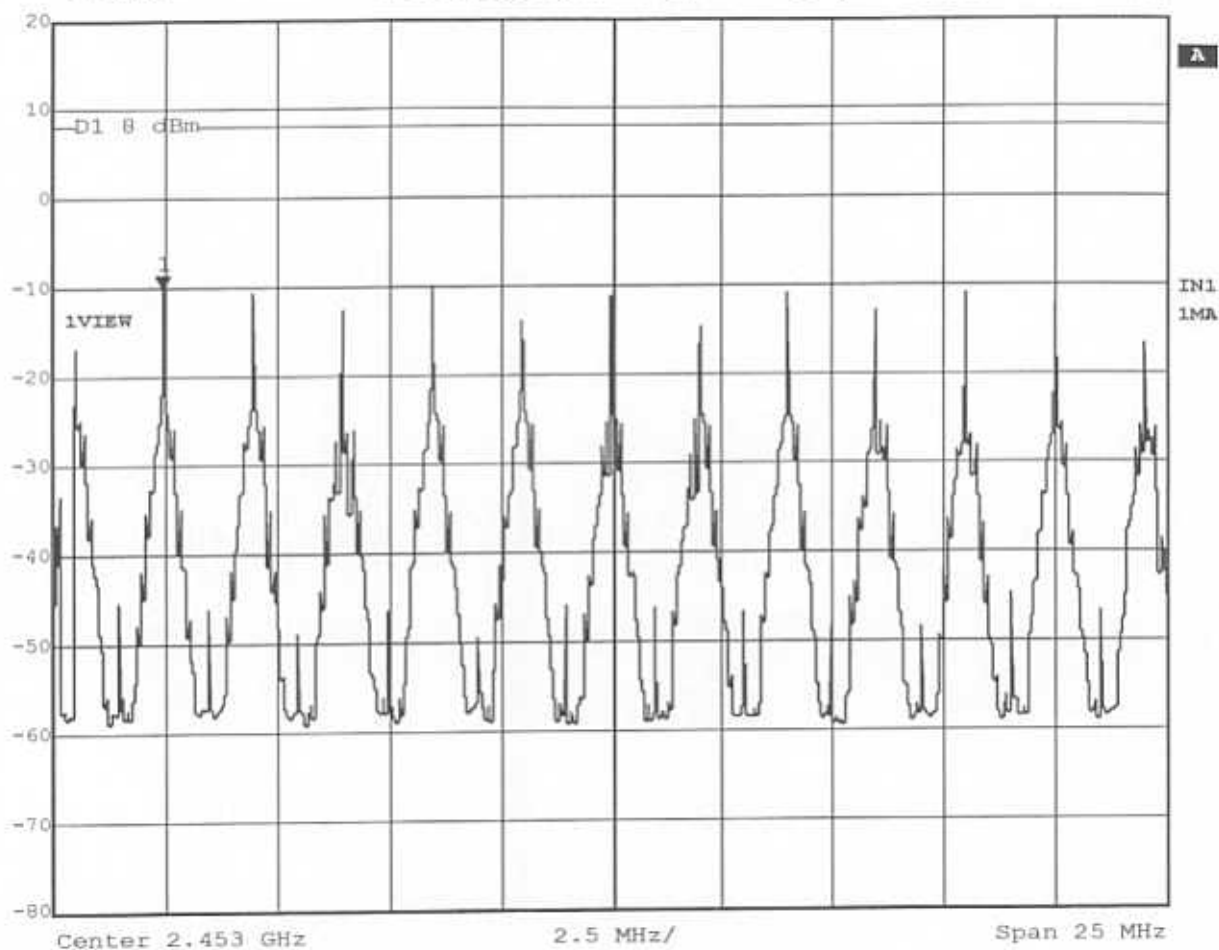
2.5 MHz/

Span 25 MHz

Title: Peak Power Spectral Density (Master Inquiry Mode)
Comment A: Brain Boxes Limited USB Bluetooth Adaptor BL-554
Date: 16.JUL.2002 10:34:30



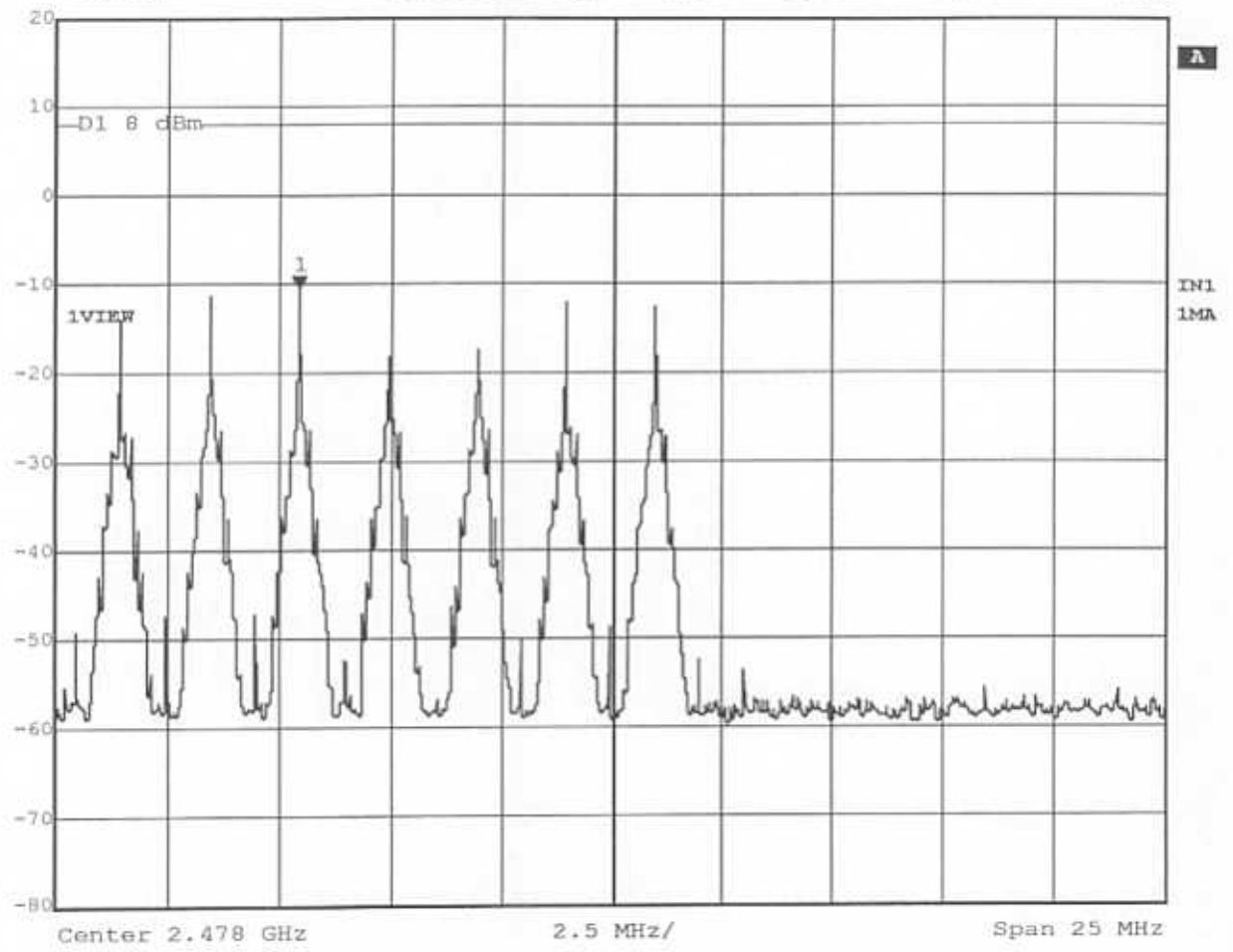
Marker 1 [T1] RBW 3 kHz RF Att 50 dB
Ref Lvl -10.03 dBm VBW 3 kHz
20 dBm 2.44295491 GHz SWT 10 s Unit dBm



Title: Peak Power Spectral Density (Master Inquiry Mode)
Comment A: Brain Boxes Limited USB Bluetooth Adaptor BL-554
Date: 16.JUL.2002 10:37:32



Ref Lvl 20 dBm
Marker 1 [T1] -10.65 dBm
2.47096092 GHz
RBW 3 kHz
VBW 3 kHz
SWT 10 s
RF Att 50 dB
Unit dBm



Title: Peak Power Spectral Density (Master Inquiry Mode)
Comment A: Brain Boxes Limited USB Bluetooth Adaptor BL-554
Date: 16.JUL.2002 10:40:31