



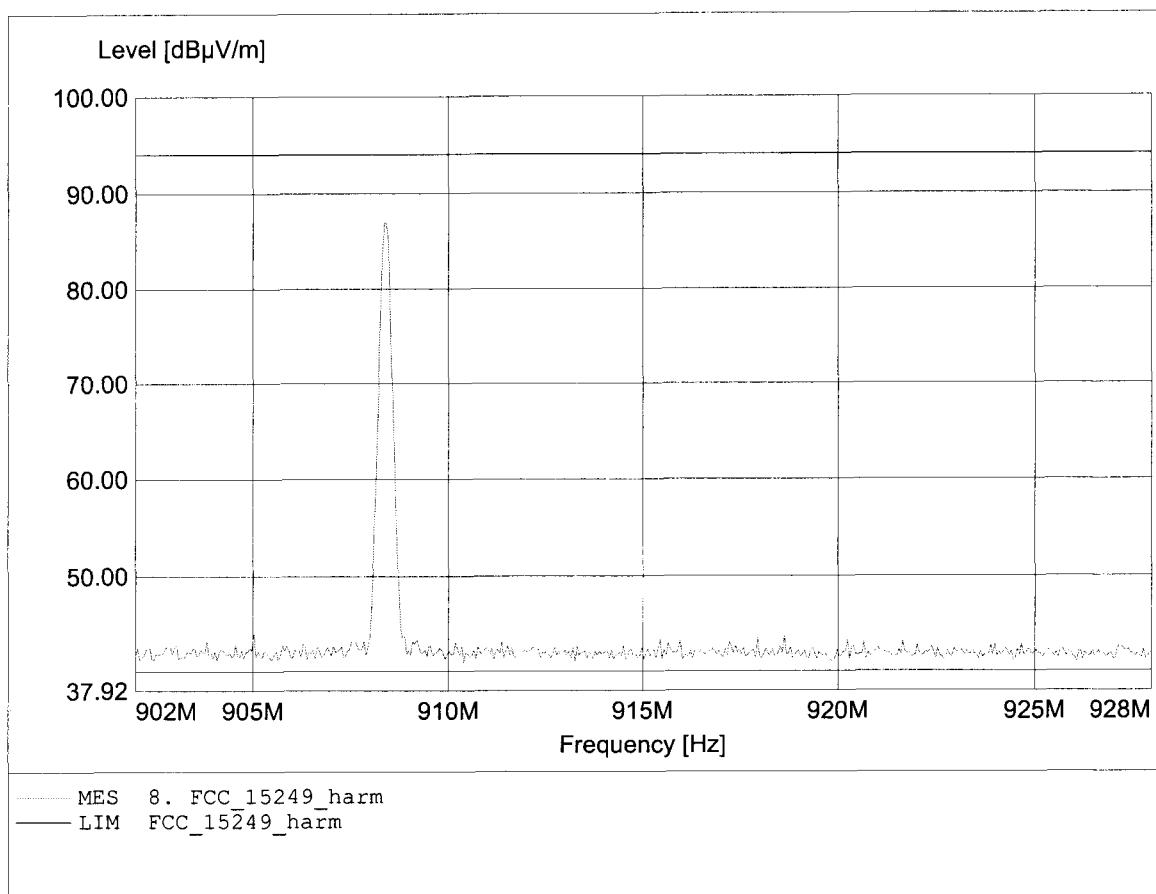
Appendix B

Fundamental Field Strength

Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C

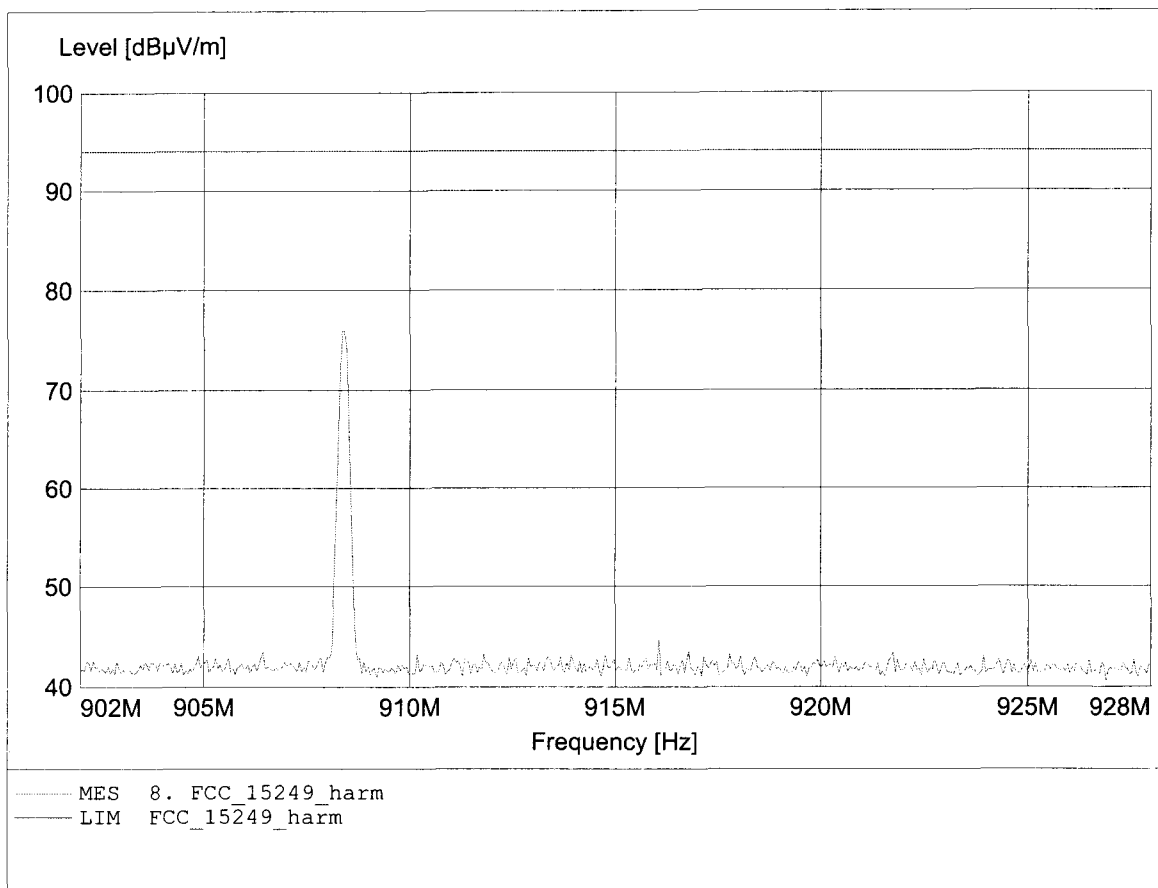
Approval Holder: Panasonic Electronic Devices Europe GmbH
EUT: Z-Wave Module / PAN8550
Model: ENW9xA01A3D
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 3 V DC
Test Specification: according to §15.249
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 908.409MHz, Emax: 86.97dBµV/m, RBW: 100kHz



Carrier power (Field Strength)

FCC RULES PART 15, SUBPART C

Approval Holder: Panasonic Electronic Devices Europe GmbH
EUT: Z-Wave Module / PAN8550
Model: ENW9xA01A3D
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 3 V DC
Test Specification: according to §15.249
Comment 1: Dist.: 3m, Ant.: HL 223
Comment 2: Freq: 908.409MHz, Emax: 75.97dBµV/m, RBW: 100kHz



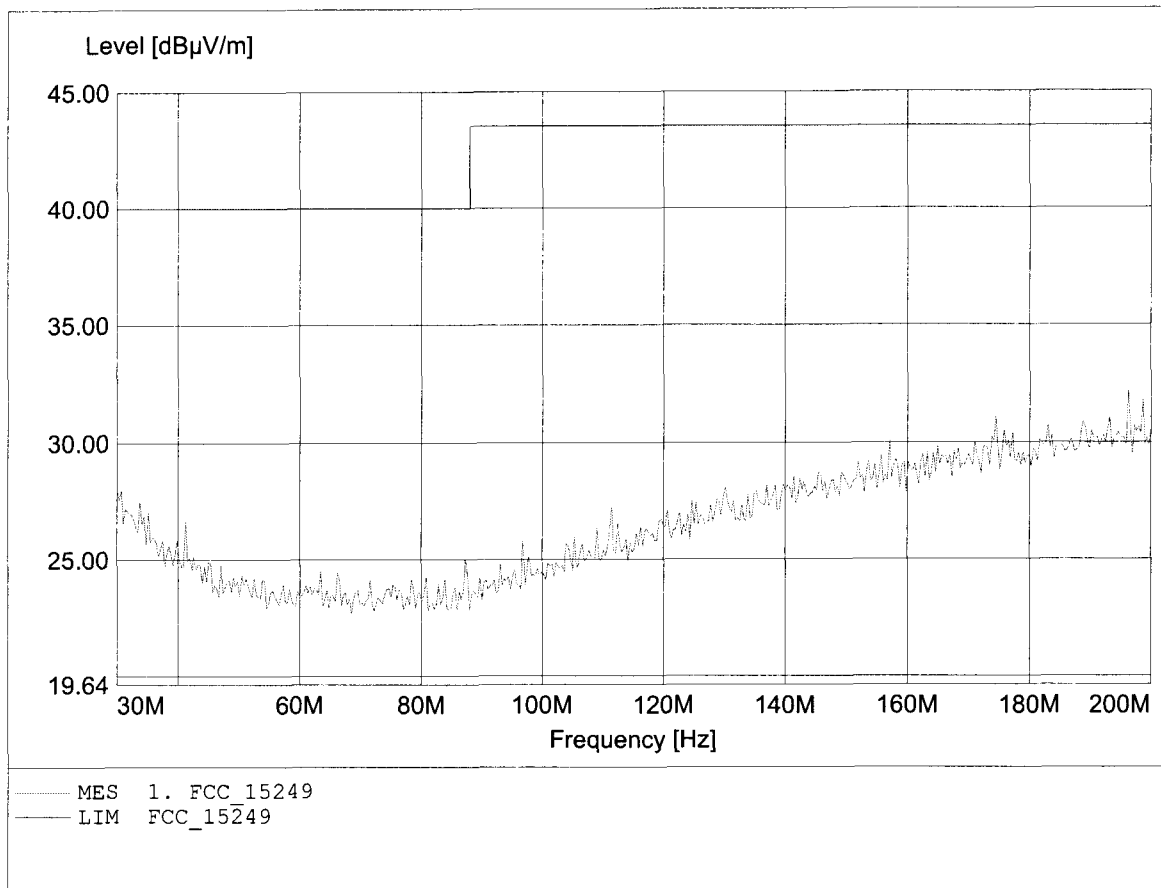
Appendix C

Spurious Emissions radiated - Transmitter operating

Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

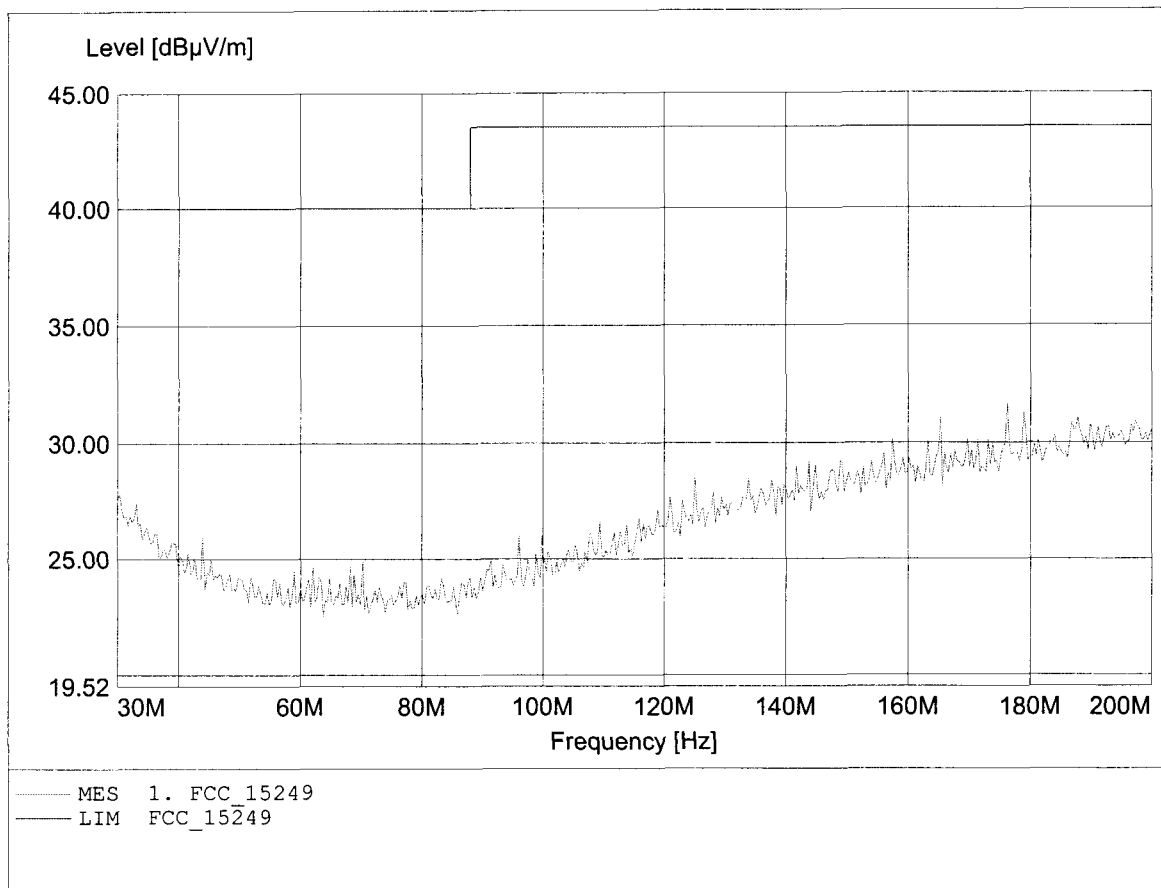
Approval Holder: Panasonic Electronic Devices Europe GmbH
EUT: Z-Wave Module / PAN8550
Model: ENW9xA01A3D
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 3 V DC
Test Specification: according to §15.249
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 196.253MHz, Emax: 32.20dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

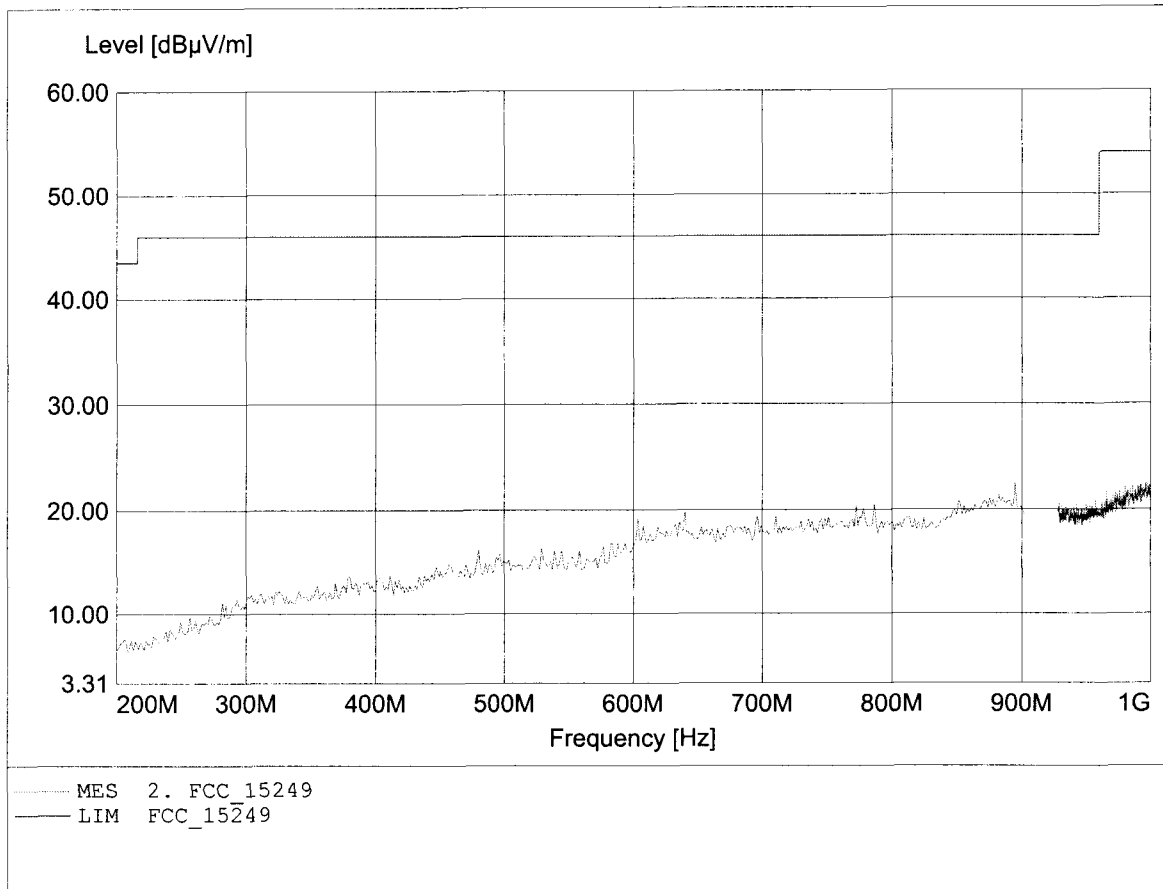
Approval Holder: Panasonic Electronic Devices Europe GmbH
EUT: Z-Wave Module / PAN8550
Model: ENW9xA01A3D
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 3 V DC
Test Specification: according to §15.249
Comment 1: Dist.: 3m, Ant.: HK 116
Comment 2: Freq: 176.152MHz, Emax: 31.65dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

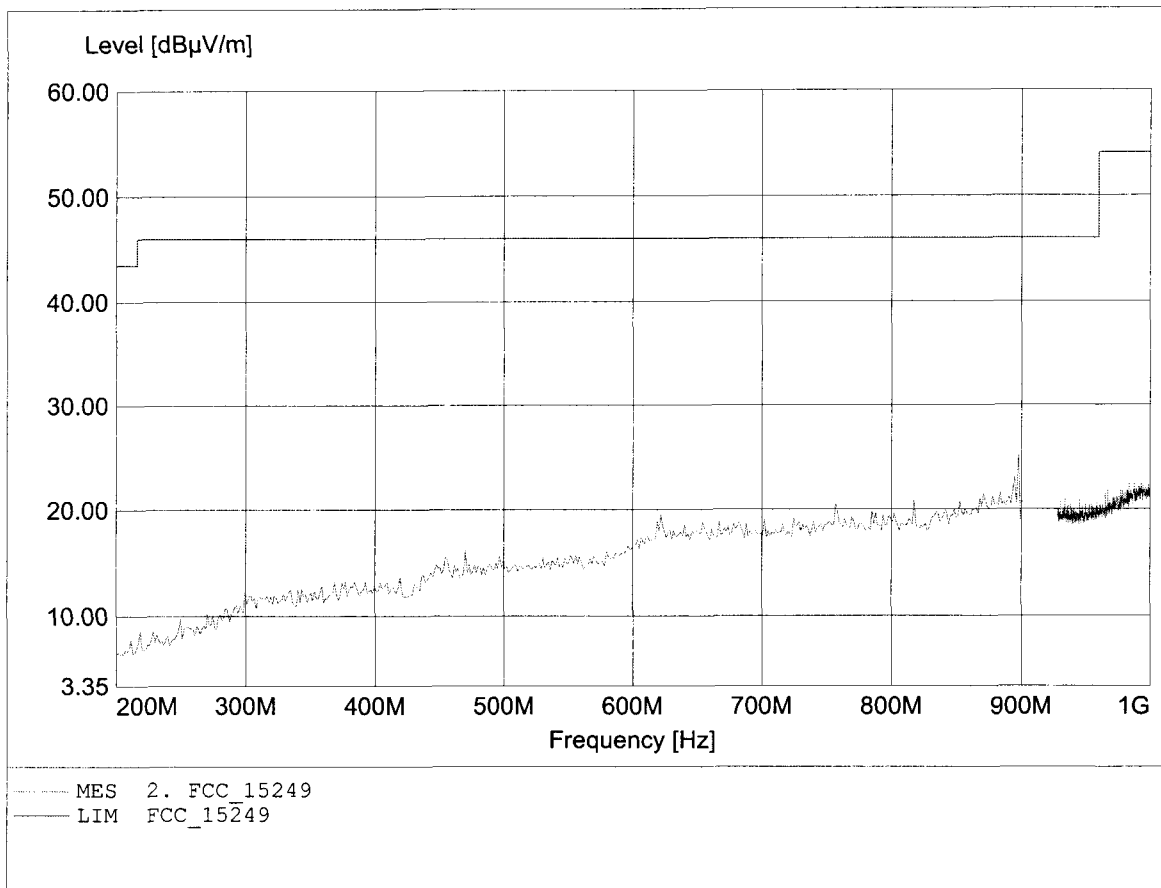
Approval Holder: Panasonic Electronic Devices Europe GmbH
EUT: Z-Wave Module / PAN8550
Model: ENW9xA01A3D
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 3 V DC
Test Specification: according to §15.249
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 996.537MHz, Emax: 22.59dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

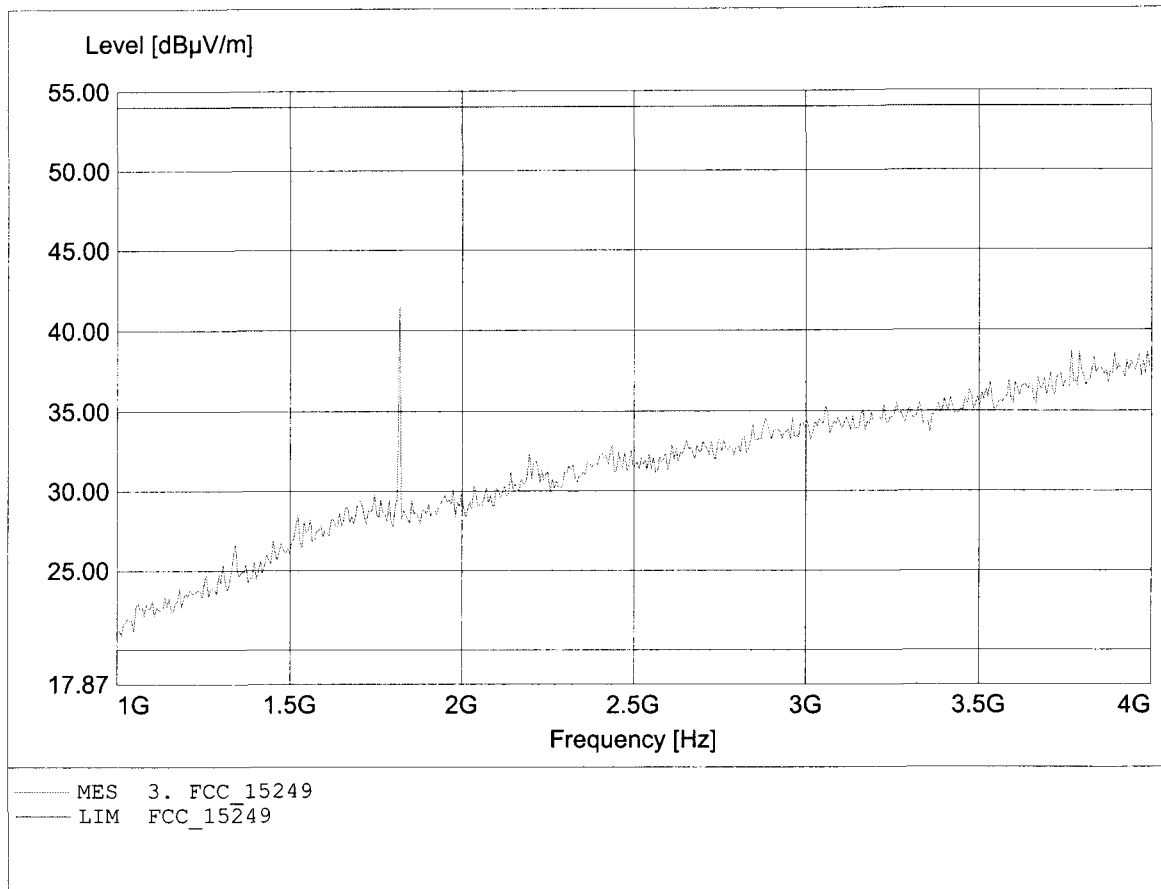
Approval Holder: Panasonic Electronic Devices Europe GmbH
EUT: Z-Wave Module / PAN8550
Model: ENW9xA01A3D
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 3 V DC
Test Specification: according to S15.249
Comment 1: Dist.: 3m, Ant.: HL 223, amplif.
Comment 2: Freq: 897.780MHz, Emax: 25.13dBµV/m, RBW: 100kHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

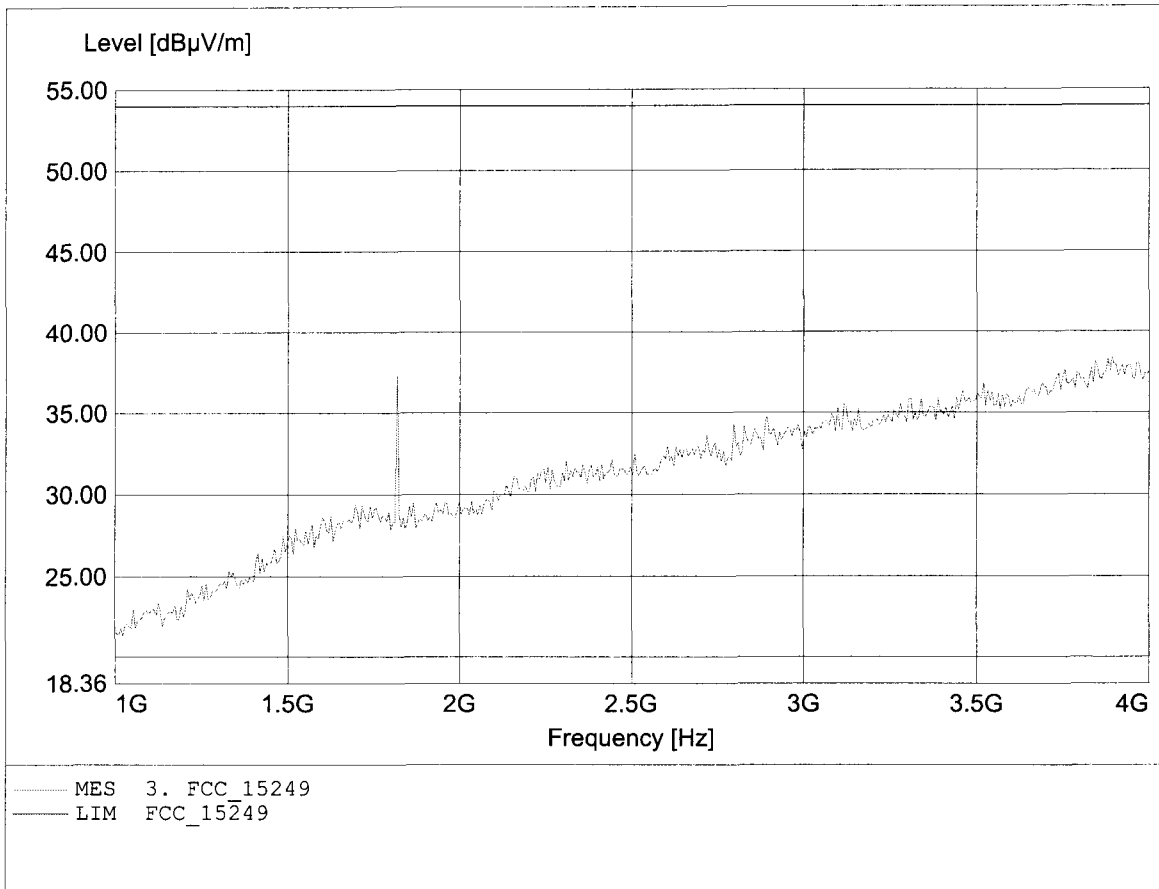
Approval Holder: Panasonic Electronic Devices Europe GmbH
EUT: Z-Wave Module / PAN8550
Model: ENW9xA01A3D
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 3 V DC
Test Specification: according to §15.249, peak detector
Comment 1: Dist.: 3m, Ant.: HL 025, amplif.
Comment 2: Freq: 1.818GHz, Emax: 41.42dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

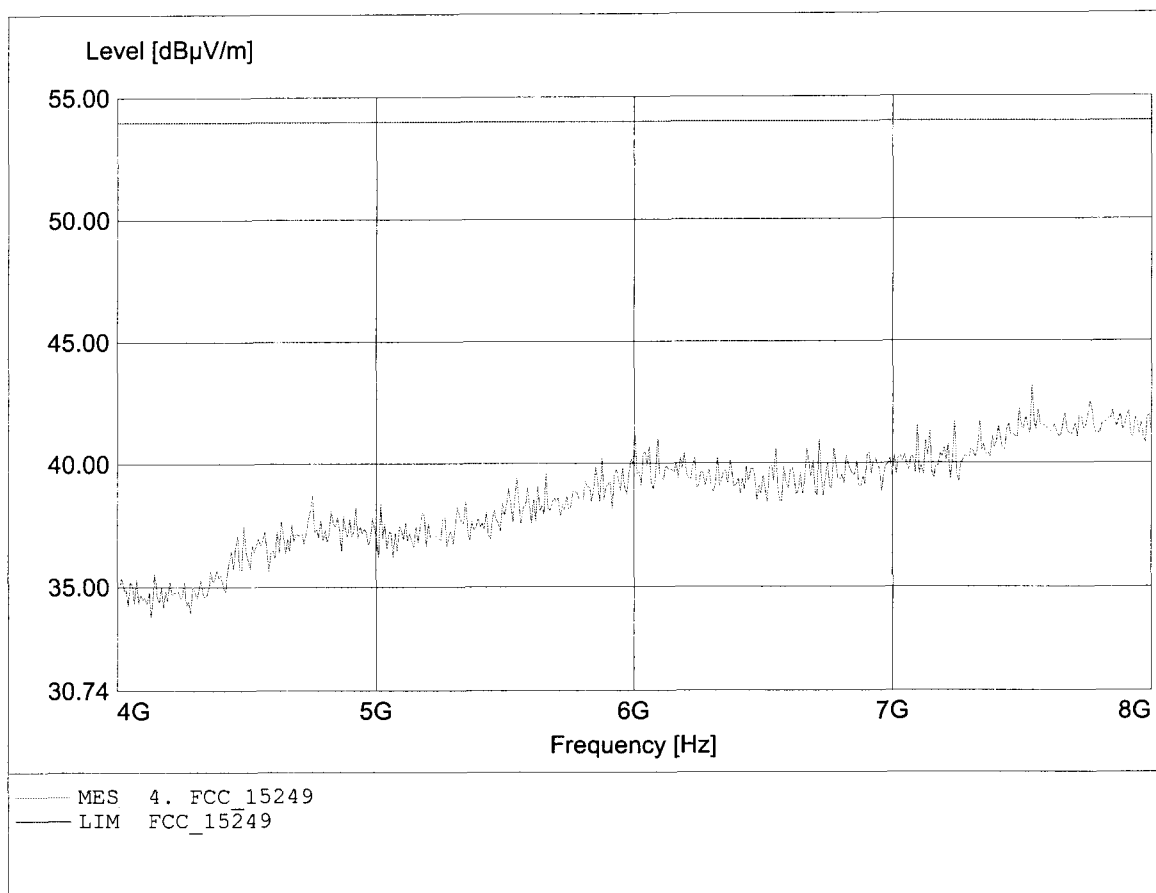
Approval Holder: Panasonic Electronic Devices Europe GmbH
EUT: Z-Wave Module / PAN8550
Model: ENW9xA01A3D
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 3 V DC
Test Specification: according to §15.249, peak detector
Comment 1: Dist.: 3m, Ant.: HL 025, amplif.
Comment 2: Freq: 3.892GHz, Emax: 38.42dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

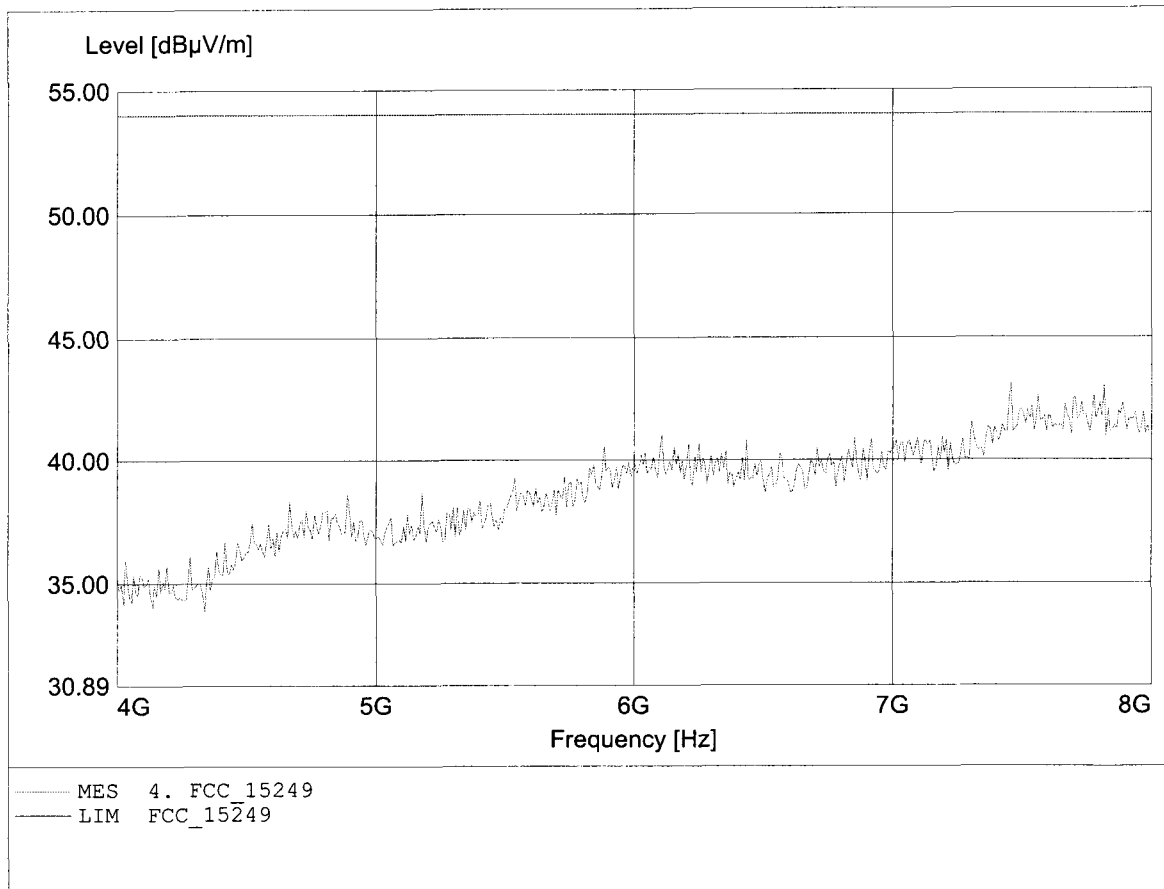
Approval Holder: Panasonic Electronic Devices Europe GmbH
EUT: Z-Wave Module / PAN8550
Model: ENW9xA01A3D
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 3 V DC
Test Specification: according to S15.249, peak detector
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 7.535GHz, Emax: 43.24dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

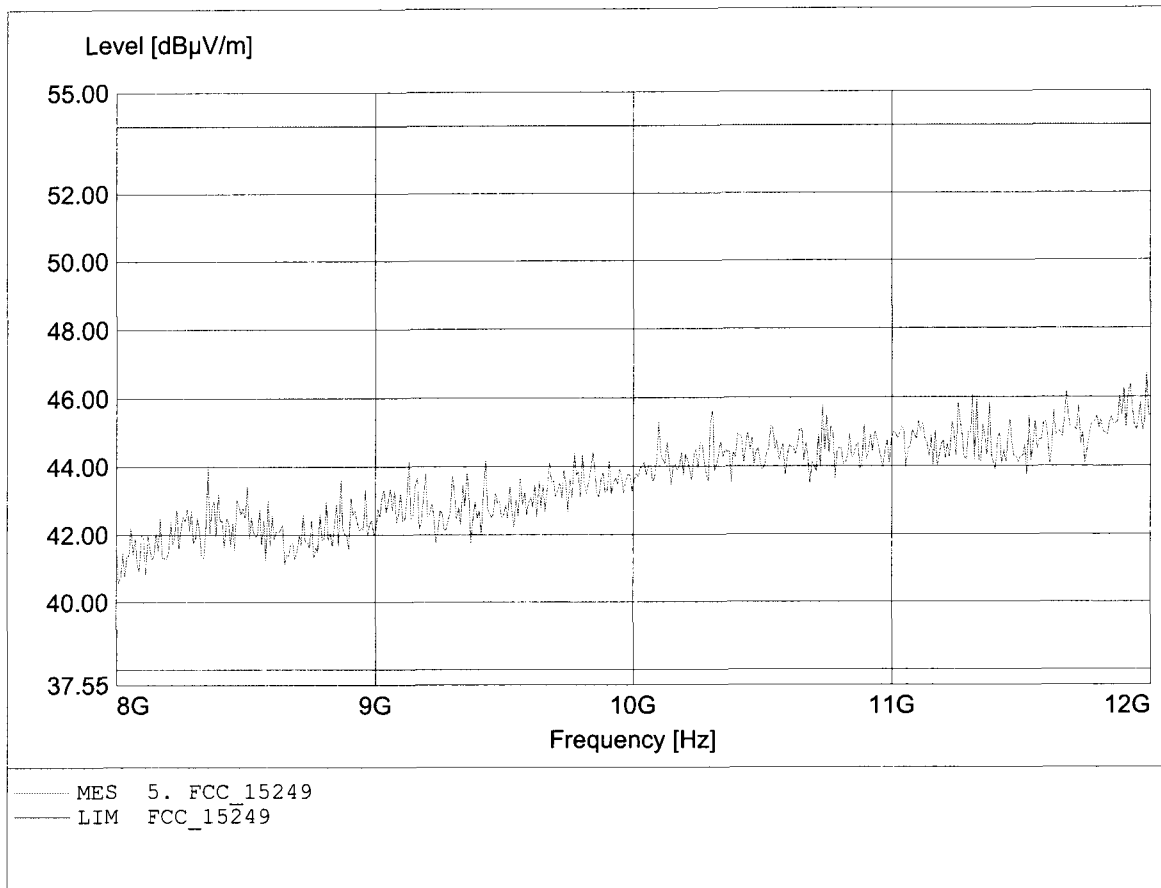
Approval Holder: Panasonic Electronic Devices Europe GmbH
EUT: Z-Wave Module / PAN8550
Model: ENW9xA01A3D
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 3 V DC
Test Specification: according to §15.249, peak detector
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 7.455GHz, Emax: 43.11dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

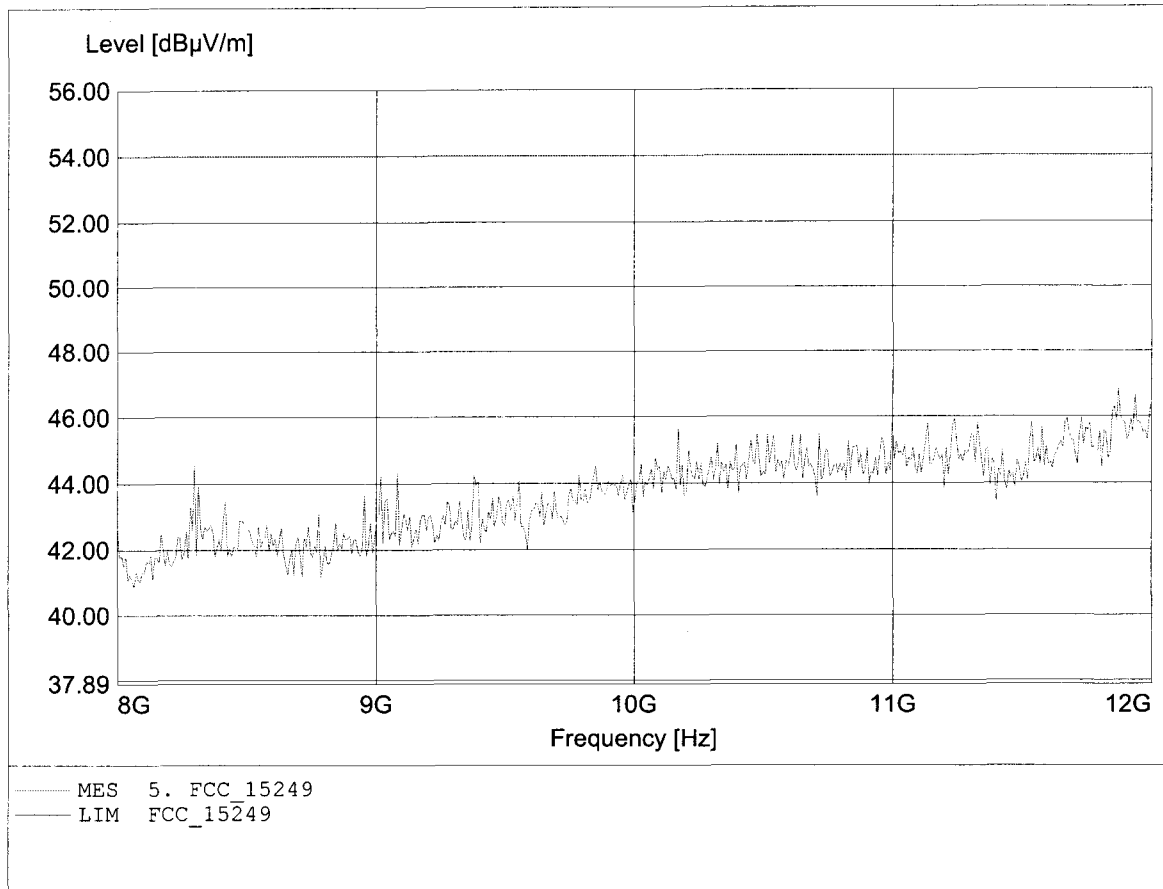
Approval Holder: Panasonic Electronic Devices Europe GmbH
EUT: Z-Wave Module / PAN8550
Model: ENW9xA01A3D
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 3 V DC
Test Specification: according to S15.249, peak detector
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 11.984GHz, Emax: 46.74dBµV/m, RBW: 1MHz



Spurious emissions Field Strength

FCC RULES PART 15, SUBPART C

Approval Holder: Panasonic Electronic Devices Europe GmbH
EUT: Z-Wave Module / PAN8550
Model: ENW9xA01A3D
Test Site / Operator: ETS / Mr. Handrik
Temperature/ Voltage: 23°C / Unom.: 3 V DC
Test Specification: according to §15.249, peak detector
Comment 1: Dist.: 3m, Ant.: HL 025, ampl.+HP.
Comment 2: Freq: 11.872GHz, Emax: 46.82dBµV/m, RBW: 1MHz



Appendix D

Out of band Spurious Emissions, Bandedge - Transmitter operating

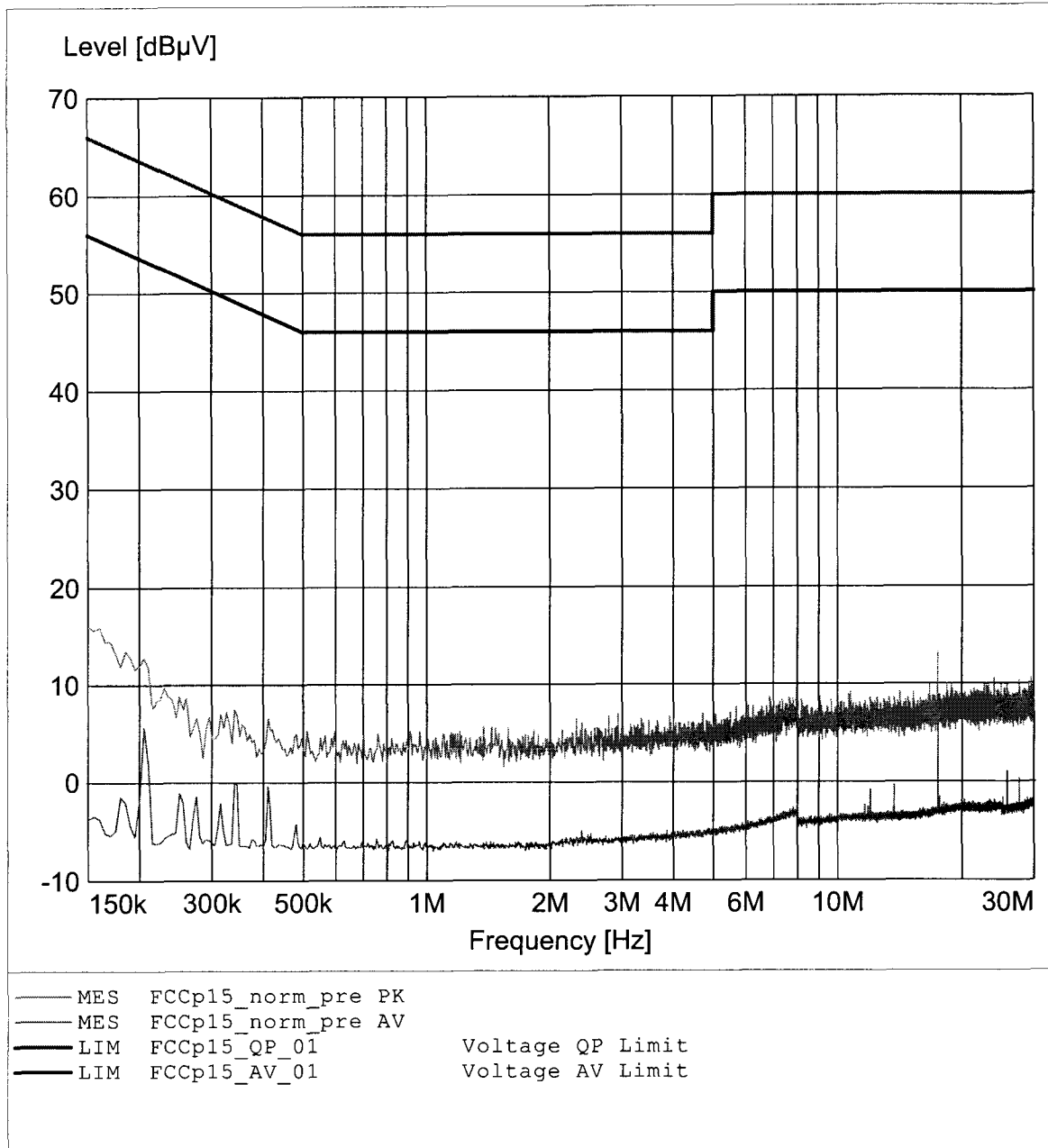


Appendix E

Conducted Measurement at (AC) Power Line

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

EUT: Z-Wave Module
Manufacturer: Panasonic Electronic Devices Europa GmbH
Operating Condition: Unom: 120 V AC (AC/DC-ADAPTOR) , Tnom: 23°C
Test Site: ETS
Operator: Mr. Marquardt
Test Specification: V-Network: ESH2-Z5 (L1)
Comment: model: ENW9xA01A3D PAN8550



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

EUT: Z-Wave Module
Manufacturer: Panasonic Electronic Devices Europa GmbH
Operating Condition: Unom: 120 V AC (AC/DC-ADAPTOR) , Tnom: 23°C
Test Site: ETS
Operator: Mr. Marquardt
Test Specification: V-Network: ESH2-Z5 (N)
Comment: model: ENW9xA01A3D PAN8550

