

Report Number: 05-0141
Customer: Axonn Corporation
Model: GENSTXII

Issue Date: July 12, 2005

2.12 Emissions from Mobile Earth Stations for Protection of Aeronautical Radionavigation-Satellite Service. (FCC Section 25.216)

25.216c(1) Emissions from the EUT were evaluated from 1559 MHz – 1605 MHz and did not exceed the limit at -70dBW/MHz, averaged over 20 milliseconds.

25.216c(2) Emissions from the EUT were evaluated from 1559 MHz – 1605 MHz and did not exceed the limit at -80dBW/MHz, averaged over 20 milliseconds.

25.216g(1) Emissions from the EUT were evaluated from 1605 MHz – 1610 MHz and did not exceed the limits ranging from –70 dBW/MHz at 1605 MHz to –10dBW/MHz at 1610 MHz, averaged over 2 milliseconds.

25.216g(2) Emissions from the EUT were evaluated from 1605 MHz – 1610 MHz and did not exceed the limits ranging from -80 dBW/MHz at 1605 MHz to –20dBW/MHz at 1610 MHz, averaged over 2 milliseconds.

25.216(i) Emissions from the EUT were evaluated from 1559 MHz – 1605 MHz and did not exceed –80 dBW/MHz over any 2 millisecond active transmission interval. (carrier off)

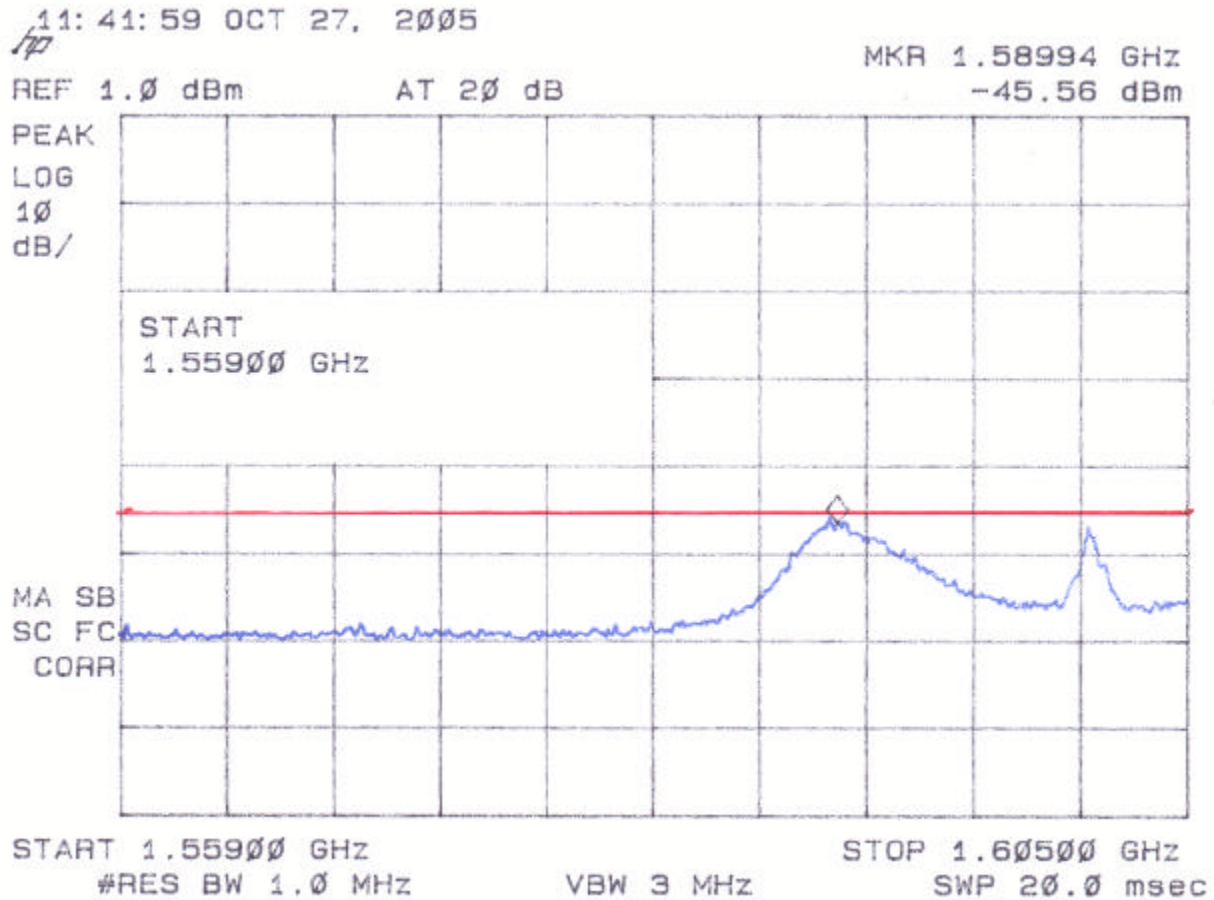
Emissions were measured with a spectrum analyzer by connecting the spectrum analyzer directly via a short cable to the antenna output terminal with the Resolution Bandwidth set to 1 MHz. Results are shown on Figures 8a -8c.

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Figure 8a.
Emissions from Mobile Earth Stations for Protection
of Aeronautical Radionavigation-Satellite Service (25.216(c)(1))

Limit = - 70 dBW/MHz + 4 dBi (-44 dBm)



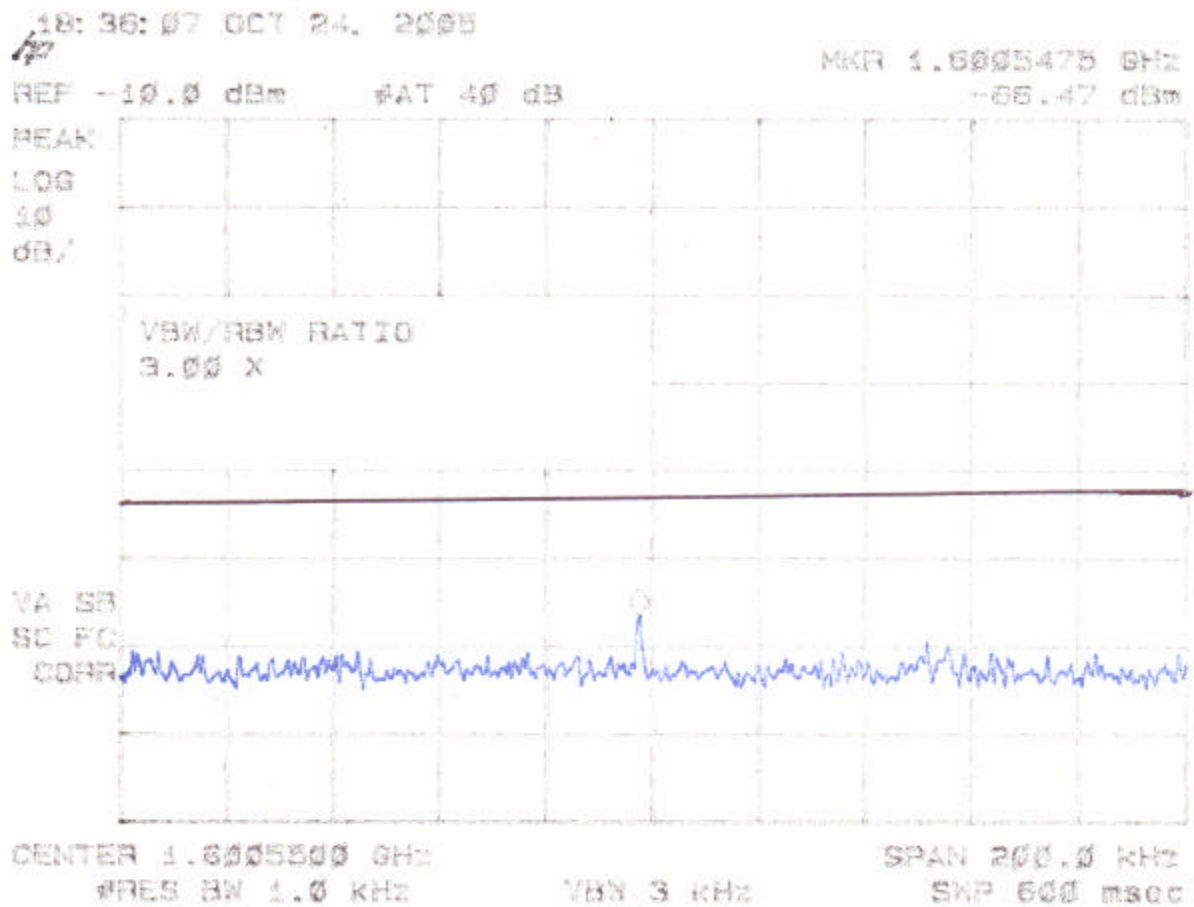
Measured Value = -45.56 + 0.25 = -45.31

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Figure 8b.
Emissions from Mobile Earth Stations for Protection
of Aeronautical Radionavigation-Satellite Service(25.216(c)(2))

$$\text{Limit} = -80 \text{ dBW} + 4 \text{ dBi} = -54 \text{ dBm}$$



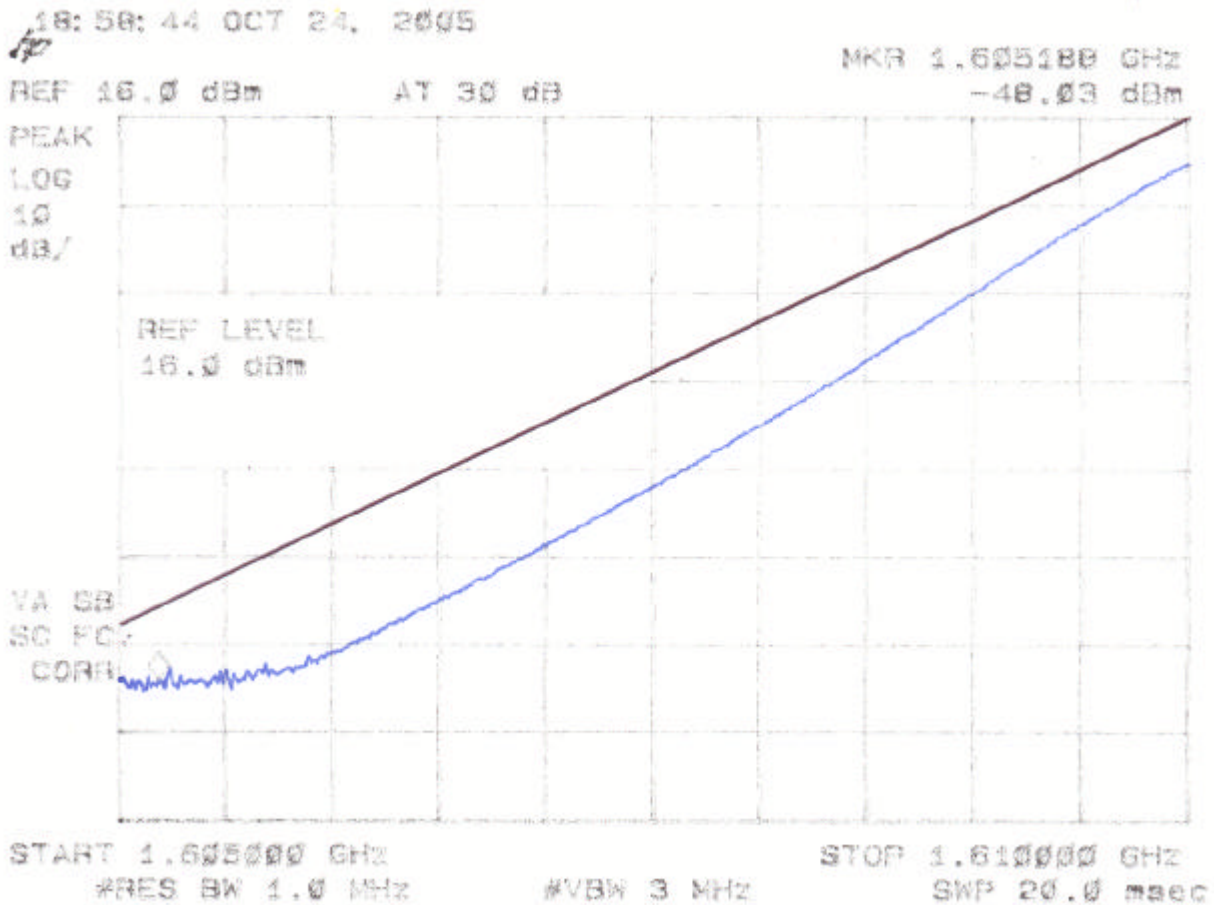
$$\text{Measured Value is } -66.47 + 0.25 \text{ (cable loss)} = -66.22$$

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Figure 8c.
Emissions from Mobile Earth Stations for Protection
of Aeronautical Radionavigation-Satellite Service(25.216(g)(1))

Limit = -70 dBW/MHz at 1605 MHz to -10 dBW/MHz at 1610 (-44 dBm to 16 dBm)



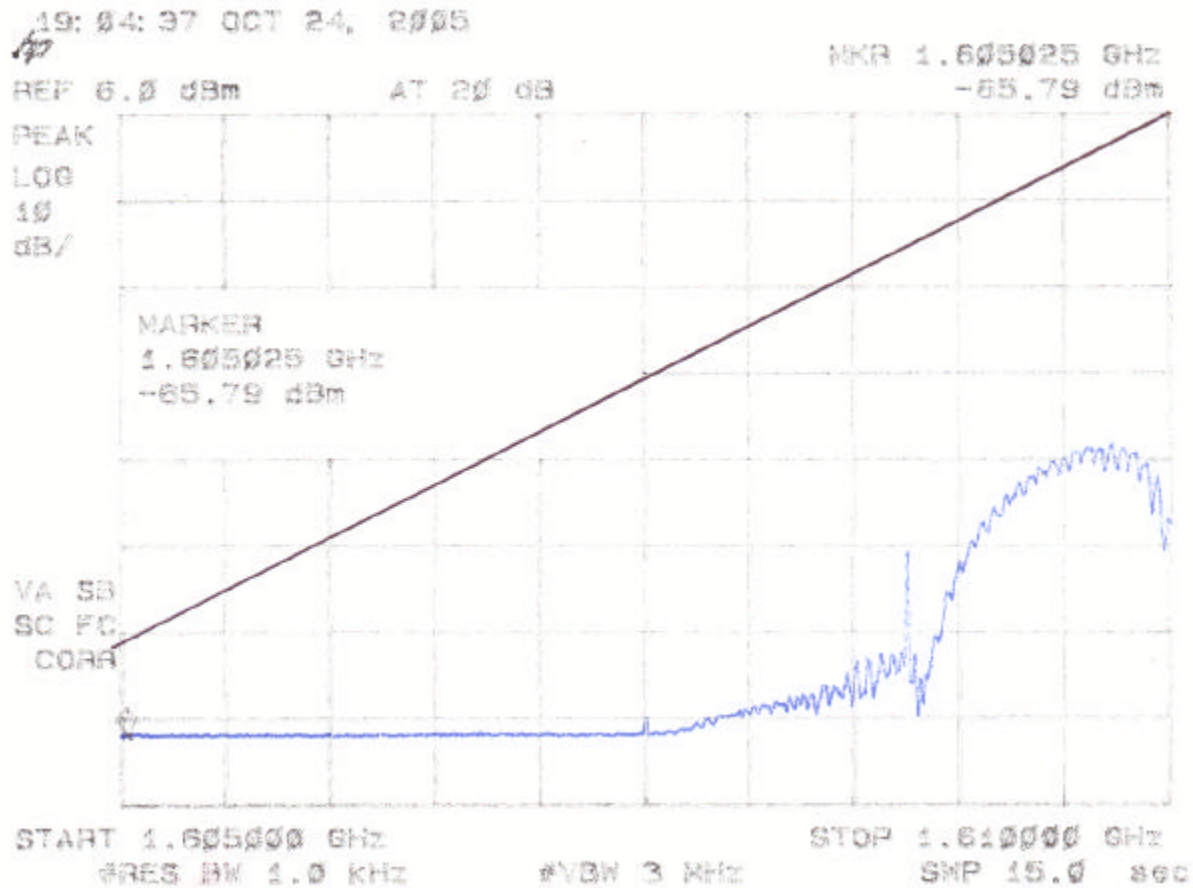
Measured Value is $-48.03 + 0.25$ (cable loss) = -47.78

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Figure 8d.
Emissions from Mobile Earth Stations for Protection
of Aeronautical Radionavigation-Satellite Service(25.216(g)(2))

Limit = -80 dBW/MHz at 1605 MHz to -20 dBW/MHz at 1610 (-54 dBm to 6 dBm)



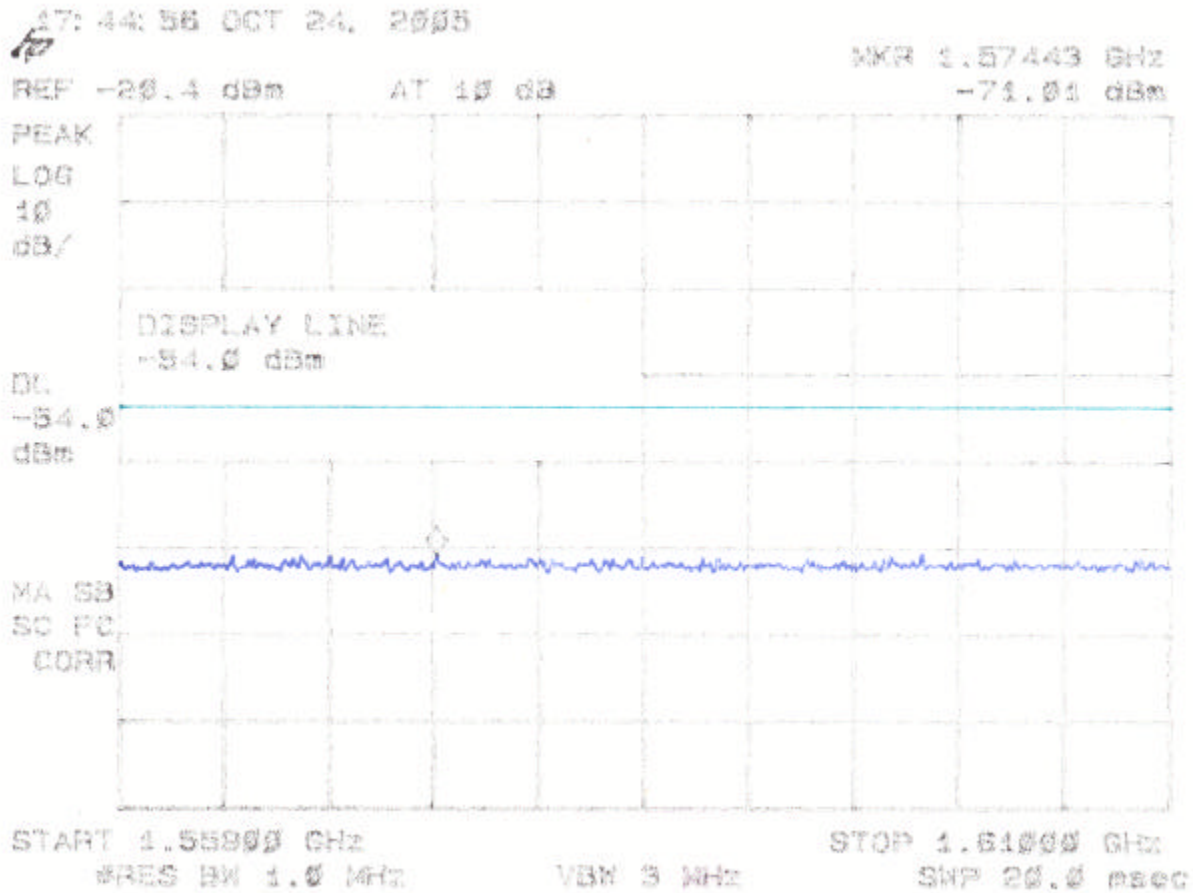
Measured Value is $-65.79 + 0.25$ (cable loss) = -65.54 dBm

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Figure 8e.
Emissions from Mobile Earth Stations for Protection
of Aeronautical Radionavigation-Satellite Service(25.216(i)
(carrier off)

Limit = -80 dBW/MHz + 4 dBi (-54 dBm)



Measured Value is -71.01 + 0.25 (cable loss) = -70.76 dBm