

| Information about the Applicant | |
|--|---------------------------------|
| Company Name | Music Sciences |
| Grantee | Music Sciences |
| Address | 1590 Murphy Pkwy |
| City, State, Zip | Eagan, MN 55122 |
| Job Number | MUSI0002 |
| Model | 2600T |
| FCC ID | TFA2600T |
| Agent | Northwest EMC, Inc. |
| Approval Type | Original |
| Equipment Class | DTS Digital Transmission System |
| Rule Part | 15.247DSSS |

Overview

This application is for the certification of Medea Design Group's 2600T transmitter, FCC ID: TFA2600T. It operates in the 5725 - 5850 MHz band with a peak output power of 16.2 mW. It is a DSSS transmitter that utilizes 2 audio channels. The device is housed in a plastic enclosure. It operates from 12VDC, 500mA. It is connected to the AC mains indirectly through an AC Adapter. The end use of the radio will be mobile. Per FCC definition, the antenna will be 20cm or further from the head or torso of the user or nearby persons. The radio utilizes a 6dBi log periodic antenna, mounted on the printed circuit board. It is wired directly to the RF module; there are no connectors. This configuration satisfies the requirements of 47 CFR 15.203. The technical reports and exhibits demonstrate compliance with FCC rules 47 CFR 15.247 as a DTS transmitter.

Recommendation

All items have been resolved and completed to my satisfaction; therefore I recommend this application for approval.

Signature


8/19/2005

Dean Ghizzone, TCB Committee

Findings

| Opinions | |
|-----------------------------------|---|
| Specification Requirements | Description |
| 47 Cfr 2.1033(b)(3) | Installation guide, operating instructions, user manual |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | User Manual.pdf |

| Specification Requirements | Description |
|-----------------------------------|--|
| 47 Cfr 2.1033(b)(4) | Operational description |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Operational Description.pdf |

| Specification Requirements | Description |
|-----------------------------------|--|
| 47 Cfr 2.1033(b)(5) | Frequency block diagram and Schematic diagram |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Block Diagram.pdf, Schematics.pdf |

| Specification Requirements | Description |
|-----------------------------------|--|
| 47 cfr 2.1033(b)(6) | Test Report |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Report-MUSI0002.pdf |

| Specification Requirements | Description |
|-----------------------------------|--|
| 47 Cfr 2.1033(b)(6) | Conversions showing how the test results were achieved |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Report-MUSI0002.pdf |

| Specification Requirements | Description |
|-----------------------------------|--|
| 47 Cfr 2.1033(b)(7) | Internal and external photos |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Internal Photos.pdf, External Photos.pdf |

| Specification Requirements | Description |
|----------------------------|--|
| Required Exhibit | Test Setup Photo Exhibit |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Report-MUSI0002.pdf |

| Specification Requirements | Description |
|---------------------------------------|--|
| 47 Cfr 1.1307(b),2.1091,2.1093 | RF Exposure Hazard |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Report-MUSI0002.pdf |

| Specification Requirements | Description |
|----------------------------|--|
| 47 Cfr 15.19 | Labeling |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | User Manual.pdf, Label.pdf |

| Specification Requirements | Description |
|----------------------------|--|
| 47 Cfr 15.21 | Information for user |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | User Manual.pdf |

| Specification Requirements | Description |
|----------------------------|--|
| 47 Cfr 15.33 | Frequency range of tests |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Report-MUSI0002.pdf |

| Specification Requirements | Description |
|----------------------------|--|
| 47 Cfr 15.35 | Measurement detectors |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Report-MUSI0002.pdf |

| Specification Requirements | Description |
|-----------------------------|---|
| ANSI C63.4 EUT Ports | All EUT ports populated,emissions maximized,Antenna height adjusted |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Report-MUSI0002.pdf |

| Specification Requirements | Description |
|----------------------------|--|
| 47 Cfr 15.203 | Antenna Requirements |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Report-MUSI0002.pdf |

| Specification Requirements | Description |
|----------------------------|--|
| 47 Cfr 15.205 | Restricted bands |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Report-MUSI0002.pdf |

| Specification Requirements | Description |
|----------------------------|--|
| 47 Cfr 15.207 | Power line Conducted emissions |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Report-MUSI0002.pdf |

| Specification Requirements | Description |
|----------------------------|--|
| 47 Cfr 15.209 | Spurious Emissions |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Report-MUSI0002.pdf |

| Specification Requirements | Description |
|----------------------------|--|
| 47 cfr 15.247 | Operation within specified bands |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Report-MUSI0002.pdf |

| Specification Requirements | Description |
|----------------------------|--|
| 47 Cfr 15.247(a) | Occupied Bandwidth |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Report-MUSI0002.pdf |

| Specification Requirements | Description |
|----------------------------|--|
| 47 Cfr 15.247(b) | Output Power |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Report-MUSI0002.pdf |

| Specification Requirements | Description |
|----------------------------|--|
| 47 Cfr 15.247(d) | Band Edge Compliance |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Report-MUSI0002.pdf |

| Specification Requirements | Description |
|----------------------------|--|
| 47 Cfr 15.247(d) | Spurious Conducted Emissions |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Report-MUSI0002.pdf |

| Specification Requirements | Description |
|----------------------------|--|
| 47 Cfr 15.247(d) | Spurious Radiated Emissions |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Report-MUSI0002.pdf |

| Specification Requirements | Description |
|----------------------------|--|
| 47 Cfr 15.247(e) | Power Spectral Density |
| Opinion | The device meets the requirements of the rule. |
| Discussion | The client has provided the necessary exhibit. |
| Reference | Report-MUSI0002.pdf |