

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

Measurements Report

The measurement report shows compliance information against applicable standards. Each parameter is measured generally at the low end, middle, and at the high end of the applicable frequency band.

Each section of the report contains either verbiage or graphs which show compliance to applicable standards as required, explains testing method used, and indicates what the applicable specification is.

Test setup details and certification signoff page are included at the end of the measurement report.

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APPLICANT: MOTOROLA SOLUTIONS

EQUIPMENT TYPE: ABZ99FT4100B

109AB-99FT4100B

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47 CFR 90 and IC RSS-119.**

E1-1 Tested Unit Details

| | |
|--------------------|---|
| Model Under Test | SLR 1000 |
| Serial Number | 521IVE000Z (Radiated Emissions) 521IZE0001 (Remaining Tests) |
| Firmware Version | D20.22.03.09 |
| Codeplug Version | 226303 |
| Bootloader Version | R01.11.02 |
| Manufacturer | Motorola Solutions 2540 Galvin Drive, Elgin, IL 60124 |

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E1-2: Measurement Uncertainty

| Measurement | Frequency | Expanded Uncertainty |
|--|---------------|----------------------|
| RF Power Output | 50MHz-10GHz | +/-0.132dB |
| Carrier Frequency Stability | 9kHz-13GHz | +/-0.368Hz |
| Occupied Bandwidth | 9kHz-13GHz | +/-0.52dB |
| Transmitter Conducted Spurious Emissions | 9kHz-13GHz | +/-0.64dB |
| Transient Frequency Behavior | 9kHz-13GHz | +/-2.04dB |
| Modulation Characteristics | 100-5000Hz | +/-0.40dB |
| Radiated Emissions | 30MHz-1000MHz | 4.3dB |
| Radiated Emissions | 1GHz-6GHz | 3.1dB |

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E1.3: Test Results Summary

| Test | 47 CFR Reference | RSS-119 Reference | Results |
|------------------------------|------------------|-------------------|---------|
| RF Output Power | 2.1046 | 4.1,5.4 | Pass |
| Occupied Bandwidth | 2.1049 | 5.5 | Pass |
| Conducted Spurious Emissions | 2.1051 | 4.2,5.8 | Pass |
| Radiated Spurious Emissions | 2.1053 | 4.2,5.8 | Pass |
| Frequency Stability | 2.1055 | 5.3 | Pass |
| Frequency Transient Behavior | 90.214 | 5.9 | Pass |
| Modulation Characteristics | 2.1047 | | Pass |

Test Standards:

Title 47 Part 2 of Code of Federal Regulations

Title 47 Part 90 of Code of Federal Regulations

RSS-119 Land Mobile and Fixed Equipment Operating in the Frequency Range 27.41-960 MHz

ANSI C63.26-2015 American National Standard for Compliance Testing of Transmitters

Used in Licensed Radio Services

ANSI C63.4-2014 American National Standard for Methods of Measurement of Radio-Noise

Emissions from Low-Voltage Electrical and Electronic Equipment in the Range 9 kHz to 40 Ghz

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E1-4 RF Power Output Data per CFR 47 2.1046 and RSS-119 5.4

The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying device(s). The DC current indicated is the total for the final RF amplifier stage.

Analog Voice (FM) and Digital MOTOTRBO™ 4-Level Frequency Modulation (4FSK)

| | <u>406MHz</u> | <u>450MHz</u> | <u>470Hz</u> | |
|---|---------------|---------------|--------------|-------|
| Measured RF output | 11 | 11 | 11 | Watts |
| DC Voltage, final RF amplifier stage/stages | 16.2 | 16.2 | 16.2 | Volts |
| DC Current, final RF amplifier stage/stages | 1.28 | 1.36 | 1.30 | Amps |
| Input power for final RF amplifying device(s) | 0.75 | 0.75 | 0.75 | Watts |
| Primary Radio Input Supply Voltage | 13.6 | 13.6 | 13.6 | VDC |
| Minimum Measured RF output | 1 | 1 | 1 | Watts |
| DC Voltage, final RF amplifier stage/stages | 16.2 | 16.2 | 16.2 | Volts |
| Normal DC Current | 0.39 | 0.41 | 0.39 | Amps |
| Input power for final RF amplifying device(s) | 0.10 | 0.10 | 0.10 | Watts |
| Primary Radio Input Supply Voltage | 13.6 | 13.6 | 13.6 | VDC |

Analog Voice (FM) and Digital MOTOTRBO™ 4-Level Frequency Modulation (4FSK):

| | <u>482 MHz</u> | <u>512 MHz</u> | <u>527 MHz</u> | |
|---|----------------|----------------|----------------|-------|
| Measured RF output | 11 | 11 | 11 | Watts |
| DC Voltage, final RF amplifier stage/stages | 16.2 | 16.2 | 16.2 | Volts |
| DC Current, final RF amplifier stage/stages | 1.25 | 1.11 | 1.32 | Amps |
| Input power for final RF amplifying device(s) | 0.75 | 0.75 | 0.75 | Watts |
| Primary Radio Input Supply Voltage | 13.6 | 13.6 | 13.6 | VDC |
| Minimum Measured RF output | 1 | 1 | 1 | Watts |
| DC Voltage, final RF amplifier stage/stages | 16.2 | 16.2 | 16.2 | Volts |
| Normal DC Current | 0.39 | 0.34 | 0.40 | Amps |
| Input power for final RF amplifying device(s) | 0.10 | 0.10 | 0.10 | Watts |
| Primary Radio Input Supply Voltage | 13.6 | 13.6 | 13.6 | VDC |

**Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC
47 CFR 90 and IC RSS-119.**

E1-5 Occupied bandwidth per CFR 47 2.1051 and RSS-119 5.5

Occupied Bandwidth – MOTOTRBO™ Digital Modulation, 12.5 kHz Channel Spacing

MOTOTRBO™ Digital Modulation can be used in a system configuration based upon channel usage as described in Exhibit B. The 'F7E' and 'FXE' emission designators provide usage for telephony, the 'F7D' and 'FXD' designators provide usage for data / telecommand, and the 'F7W' designator provides for usage as a combination of telephony and telecommand. All are spectrally identical. The occupied bandwidth chart references the following setup and specification requirements.

Modulation Type: MOTOTRBO™ Digital Modulation

Emission Designator: 7K60F7W, 7K60F7D, 7K60F7E, 7K60FXD, 7K60FXE

Channelization: 12.5 kHz

Power Setting: 11 Watts

Specification Requirement 47 CFR §90.210(d) and IC RSS-119 section 5.8.3 - Emission Limits –
“D-Mask”:

Emission Mask D. For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

(1) On any frequency from the center of the authorized bandwidth (f_0) to 5.625 kHz removed from f_0 : *Zero dB*

(2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.625 kHz but no more than 12.5 kHz:
*At least $7.27 * (f_d - 2.88 \text{ kHz})$ dB*

(3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz:
At least 50 plus $10 \log_{10}(P)$ dB or 70 dB, whichever is the lesser attenuation.

(4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide to capture the true peak emission of the equipment under test. In order to show compliance with the emissions mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to ensure that the emission profile is developed.

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Necessary Bandwidth Calculation:

The necessary bandwidth of the modulation per the formulas defined in 47 CFR §2.202(g) / TRC-43 section 8 is as follows:

Four Level Frequency Modulation is used to modulate a carrier with a digital bit stream: Data Rate: R = 9600 bps; Bits per Symbol: S=2; Modulation rate in baud = B = 9600 / 2 = 4800; Max Modulation Frequency = M = 1/2 * B = 2400 Hz; Deviation at the outer symbols is 1.944 kHz; A square root raised cosine filter is implemented for the modulation low pass filter with the following magnitude response, |F(f)|:

|F(f)|: 1 for |f| ≤ 1920Hz

|F(f)|: |cos(πf/1920)| for 1920Hz ≤ f ≤ 2880Hz

|F(f)|: 0 for |f| > 2880Hz

where f = frequency in hertz.

| Max Mod Freq, M= 1/2B | Max Deviation, D | 2M+2DK (K=.72) | Nec BW |
|-----------------------|------------------|----------------|--------|
| 2.4 kHz | 1.944 kHz | 7.60 kHz | 7K60 |

Measurement Procedure and Instrument Settings:

| Emission Measurement Analyzer Settings | | Measured Occupied Bandwidth |
|--|-----------------------|-----------------------------|
| Horizontal: 12.5 kHz per Division | Resolution BW: 100 Hz | Resolution BW: 100 Hz |
| Vertical: 10 dB per Division | Video BW: 10 kHz | Span: 125 kHz |
| Sweep Time: 72 Seconds (<2 kHz/Sec) | Span: 125 kHz | Number of Points: 6401 |
| Detector: Peak | | Integration Time: 34.16 ms |

Test Procedure:

- 1) Adjust the spectrum analyzer per the values specified in the Emission Measurement Analyzer Settings.
- 2) Modulate the transmitter with the appropriate signaling pattern, (pseudorandom data) and key the transmitter at the full power rating. Use the analyzer controls to set this signal to the full-scale reference line. Allow the analyzer to sweep fully and store the sweep.
- 3) Use the band power marker function of the spectrum analyzer to measure the power of the carrier.
- 4) Use the carrier power value from the previous step to generate the emission mask limit.
- 5) Plot the resulting analyzer trace and the emission mask limit; add text and labeling as appropriate.
- 6) Adjust the signal analyzer resolution BW and span as indicated above, use the Occupied Bandwidth function to record the value.

APPLICANT: MOTOROLA SOLUTIONS

EQUIPMENT TYPE: ABZ99FT4100B

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| EXHIBIT | DESCRIPTION | Meas Occ BW |
|----------------|---|--------------------|
| E1-5.1 | Occupied Bandwidth – MOTOTRBO™ Digital Modulation, 406.1125 MHz | 7.21 kHz |
| E1-5.2 | Occupied Bandwidth – MOTOTRBO™ Digital Modulation, 450.6500 MHz | 7.38 kHz |
| E1-5.3 | Occupied Bandwidth – MOTOTRBO™ Digital Modulation, 459.1250 MHz | 7.50 kHz |
| E1-5.4 | Occupied Bandwidth – MOTOTRBO™ Digital Modulation, 467.7750 MHz | 7.60 kHz |
| E1-5.5 | Occupied Bandwidth – MOTOTRBO™ Digital Modulation, 482.0125 MHz | 7.47 kHz |
| E1-5.6 | Occupied Bandwidth – MOTOTRBO™ Digital Modulation, 511.9875 MHz | 7.51 kHz |
| E1-5.7 | Occupied Bandwidth – MOTOTRBO™ Digital Modulation, 526.9875 MHz | 7.58 kHz |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

Occupied Bandwidth – Analog Voice Frequency Modulation, 25 kHz Channel Spacing

The exhibits in this section show occupied bandwidth plots for analog voice modulation. Data is shown with the modulating audio tone itself, the tone plus Private Line (PL) sub-audible tone signaling, and tone plus Digital Private Line (DPL) sub-audible signaling. PL is a Continuous Tone Coded Squelch System (CTCSS), a method of using low frequency sub audible tones to share a single radio channel among multiple users. DPL is a digital version of Private Line.

The occupied bandwidth charts reference the following setup and specification requirements.

Modulation Type: Analog Voice
 Emission Designator: 16K0F3E
 Channelization: 25 kHz
 Deviation Limit: ±5.0 kHz Max
 Power Setting: 11 Watts

Specification Requirement 47 CFR §90.210(b) and IC RSS-119 section 5.8.1 - Emission Limits – “B-Mask”:

For transmitters equipped with an audio low pass filter and designed to operate with a 25 kHz channel spacing (authorized bandwidth 20 kHz), the power of any emission must be below the unmodulated carrier power (P) as follows:

On any frequency removed from the assigned frequency by a displacement frequency (Fd in Hz) of:

- a) >10 kHz up to and including 20 kHz At least 25 dB;
- b) >20 kHz up to and including 50 kHz At least 35 dB;
- c) >50 kHz at least $43 + 10 * \text{Log}_{10}(P)$ dB.

Necessary Bandwidth Calculation:

The necessary bandwidth of the modulation per the formulas defined in 47 CFR §2.202(g) / TRC-43 section 8 is as follows:

| | | | |
|-----------------|------------------|-----------|--------|
| Max Mod Freq, M | Max Deviation, D | $2*(M+D)$ | Nec BW |
| 3 kHz | 5 kHz | 16 kHz | 16K0 |

Measurement Procedure and Instrument Settings:

| <u>Emission Measurement Analyzer Settings</u> | | <u>Measured Occupied Bandwidth</u> |
|---|-----------------------|------------------------------------|
| Horizontal: 2.5 kHz per Division | Resolution BW: 300 Hz | Resolution BW: 300 Hz |
| Vertical: 0 dB per Division | Video BW: 10 kHz | Span: 30 kHz |
| Sweep Time: 72 Seconds (<2 kHz/Sec) | Span: 125 kHz | Number of Points: 1001 |
| Detector: Peak | | Integration Time: 7.4 ms |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

Test Procedure:

- 1) Key the station with no modulation to obtain the unmodulated carrier reference level on the analyzer. Use the analyzer controls to set this reference to a full-scale reference line. Store this analyzer trace in trace A.
- 2) Modulate the transmitter with a 2500 Hz sine wave at an input level 16 dB greater than that necessary to produce 50% of rated system deviation.
- 3) Allow the analyzer to sweep, and record the resultant emission levels in trace B.
- 4) Plot the resulting analyzer trace. The occupied bandwidth mask is then added along with additional labeling as appropriate.
- 5) Adjust the signal analyzer resolution BW and span as indicated above, use the Occupied Bandwidth function to record the value.

| <u>EXHIBIT</u> | <u>DESCRIPTION</u> | <u>Meas Occ BW: No PL</u> | <u>PL</u> | <u>DPL</u> |
|----------------|---|---------------------------|-----------|------------|
| E1-5.8,9,10 | Occupied Bandwidth, Analog, 25 kHz Channels, 406.1125 MHz | 15.03, 11.74, 11.79 kHz | | |
| E12.11,12,13 | Occupied Bandwidth, Analog, 25 kHz Channels, 450.6500 MHz | 15.03, 11.76, 11.80 kHz | | |
| E1-5.14,15,16 | Occupied Bandwidth, Analog, 25 kHz Channels, 459.1250 MHz | 15.03, 11.77, 11.78 kHz | | |
| E1-5.17,18,19 | Occupied Bandwidth, Analog, 25 kHz Channels, 467.7750 MHz | 15.04, 11.82, 11.83 kHz | | |
| E1-5.20,21,22 | Occupied Bandwidth, Analog, 25 kHz Channels, 482.0125 MHz | 15.03, 11.75, 11.79 kHz | | |
| E1-5.23,24,25 | Occupied Bandwidth, Analog, 25 kHz Channels, 511.9875 MHz | 15.03, 11.75, 11.80 kHz | | |
| E1-5.26,27,28 | Occupied Bandwidth, Analog, 25 kHz Channels, 526.9875 MHz | 15.05, 11.97, 11.88 kHz | | |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

Occupied Bandwidth – Analog Voice Frequency Modulation, 12.5 kHz Channel Spacing

The exhibits in this section show occupied bandwidth plots for analog voice modulation. Data is shown with the modulating audio tone itself, the tone plus Private Line (PL) sub-audible tone signaling, and tone plus Digital Private Line (DPL) sub-audible signaling. PL is a Continuous Tone Coded Squelch System (CTCSS), a method of using low frequency sub audible tones to share a single radio channel among multiple users. DPL is a digital version of Private Line.

The occupied bandwidth charts reference the following setup and specification requirements.

Modulation Type: Analog Voice
Emission Designator: 11K0F3E
Channelization: 12.5 kHz
Deviation Limit: ± 2.5 kHz Max
Power Setting: 11 Watts

Specification Requirement 47 CFR §90.210(d) and IC RSS-119 section 5.8.3 - Emission Limits – “D-Mask”:

Emission Mask D. For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

- (1) On any frequency from the center of the authorized bandwidth (f_0) to 5.625 kHz removed from f_0 : Zero dB
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 5.625 kHz but no more than 12.5 kHz: At least $7.27 * (f_d - 2.88)$ dB
- (3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 12.5 kHz: At least 50 plus $10 \log_{10}(P)$ dB or 70 dB,
whichever is the lesser attenuation.
- (4) The reference level for showing compliance with the emission mask shall be established using a resolution bandwidth sufficiently wide to capture the true peak emission of the equipment under test. In order to show compliance with the emissions mask up to and including 50 kHz removed from the edge of the authorized bandwidth, adjust the resolution bandwidth to 100 Hz with the measuring instrument in a peak hold mode. A sufficient number of sweeps must be measured to ensure that the emission profile is developed.

Necessary Bandwidth Calculation (Analog Emission):

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

The necessary bandwidth of the modulation signal per the formulas defined in 47 CFR 2.202 (b) is as follows:

| | | | |
|-----------------|------------------|---------|--------|
| Max Mod Freq, M | Max Deviation, D | 2*(M+D) | Nec BW |
| 3 kHz | 2.5 kHz | 11 kHz | 11K0 |

Measurement Procedure and Instrument Settings:

| | | |
|--|----------------------|-----------------------------|
| Emission Measurement Analyzer Settings | | Measured Occupied Bandwidth |
| Horizontal:12.5 kHz per Division | Resolution BW:100 Hz | Resolution BW:150 Hz |
| Vertical:10 dB per Division | Video BW:10 kHz | Span: 15 kHz |
| Sweep Time:72 Seconds (<2 kHz/Sec) | Span:125 kHz | Number of Points: 1601 |
| Detector:Peak | | Integration Time:14.8 ms |

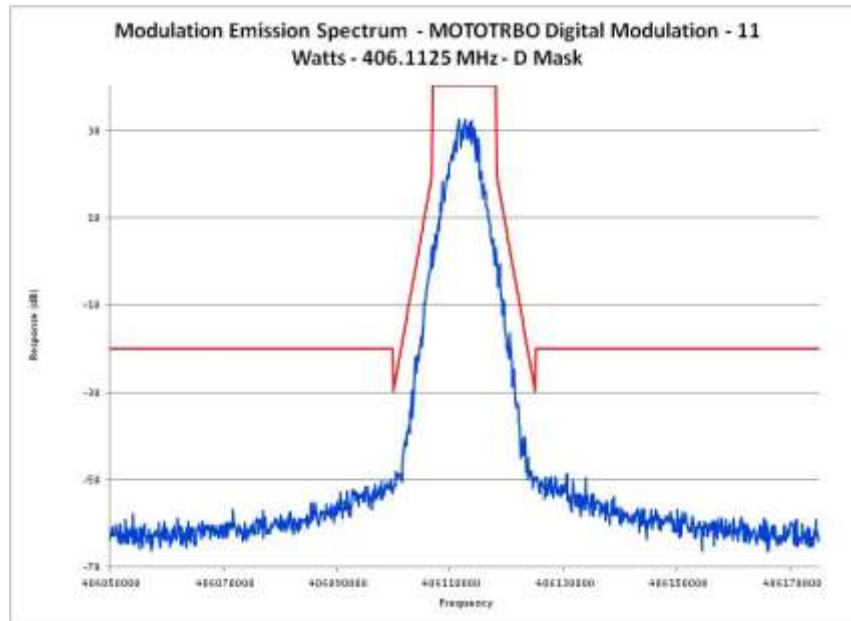
Test Procedure (Analog Voice):

- 1) Key the station with no modulation to obtain the unmodulated carrier reference level on the analyzer. Use the analyzer controls to set this reference to a full-scale reference line. Store this analyzer trace in trace A.
- 2) Modulate the transmitter with a 2500 Hz sine wave at an input level 16 dB greater than that necessary to produce 50% of rated system deviation.
- 3) Allow the analyzer to sweep, and record the resultant emission levels in trace B.
- 4) Plot the resulting analyzer trace. The occupied bandwidth mask is then added along with additional labeling as appropriate.
- 5) Adjust the signal analyzer resolution BW and span as indicated above, use the Occupied Bandwidth function to record the value.

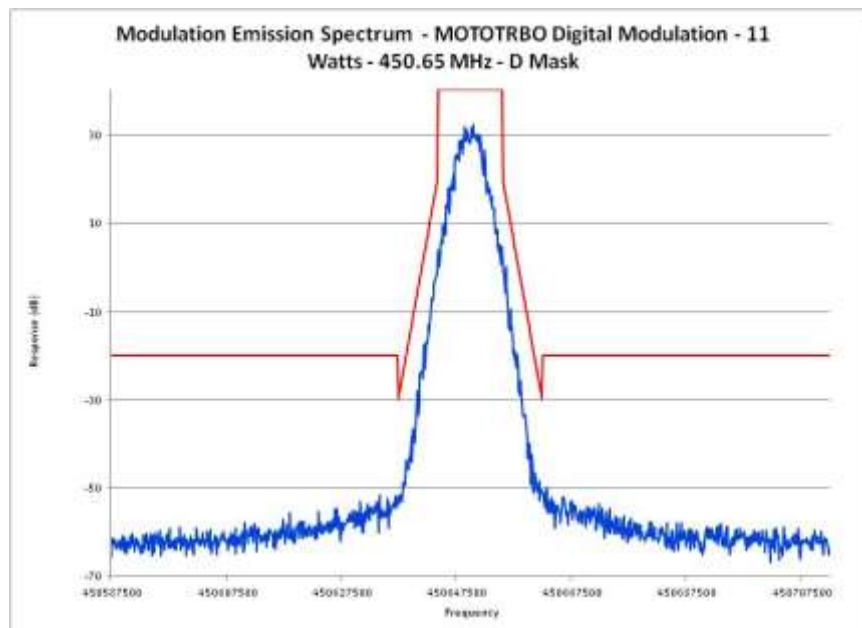
| <u>EXHIBIT</u> | <u>DESCRIPTION</u> | <u>Meas Occ BW: No PL</u> | <u>PL</u> | <u>DPL</u> |
|----------------|---|---------------------------|-----------------------|------------|
| E1-5.29,30,31 | Occupied Bandwidth, Analog, 12.5 kHz Channels, 406.1125 MHz | | 9.99, 9.13, 9.11 kHz | |
| E1-5.32,33,34 | Occupied Bandwidth, Analog, 12.5 kHz Channels, 450.6500 MHz | | 10.00, 9.18, 9.12 kHz | |
| E1-5.35,36,37 | Occupied Bandwidth, Analog, 12.5 kHz Channels, 459.1250 MHz | | 9.99, 9.17, 9.13 kHz | |
| E1-5.38,39,40 | Occupied Bandwidth, Analog, 12.5 kHz Channels, 467.7750 MHz | | 10.00, 9.22, 9.14 kHz | |
| E1-5.41,42,43 | Occupied Bandwidth, Analog, 12.5 kHz Channels, 482.0125 MHz | | 9.99, 9.15, 9.11 kHz | |
| E1-5.44,45,46 | Occupied Bandwidth, Analog, 12.5 kHz Channels, 511.9875 MHz | | 10.00, 9.16, 9.13 kHz | |
| E1-5.47,48,49 | Occupied Bandwidth, Analog, 12.5 kHz Channels, 526.9875 MHz | | 10.00, 9.25, 9.16 kHz | |

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E1-5.1 Occupied Bandwidth – MOTOTRBO™ Digital Modulation, 406.1125 MHz

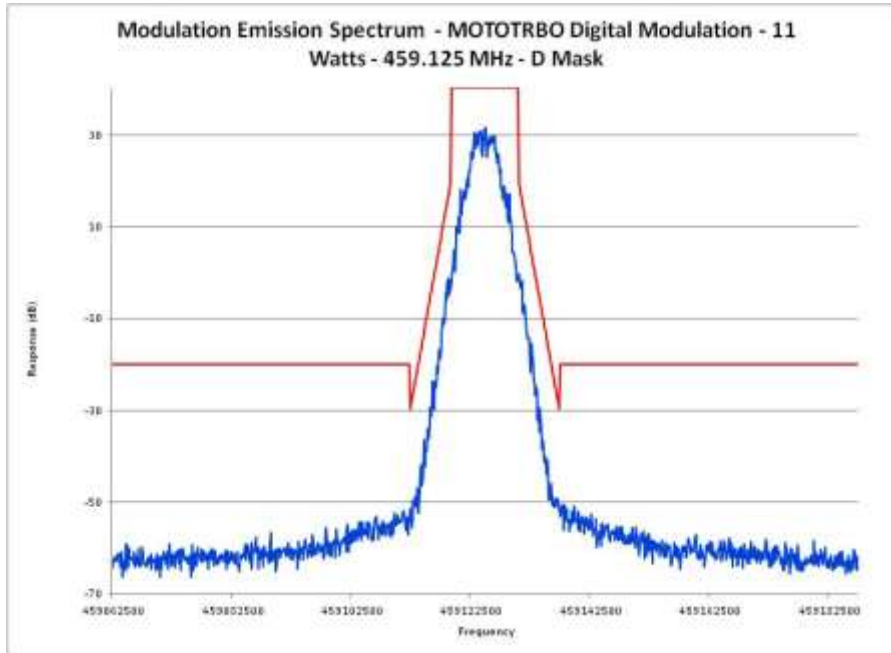


E1-5.2 Occupied Bandwidth – MOTOTRBO™ Digital Modulation, 450.6500 MHz

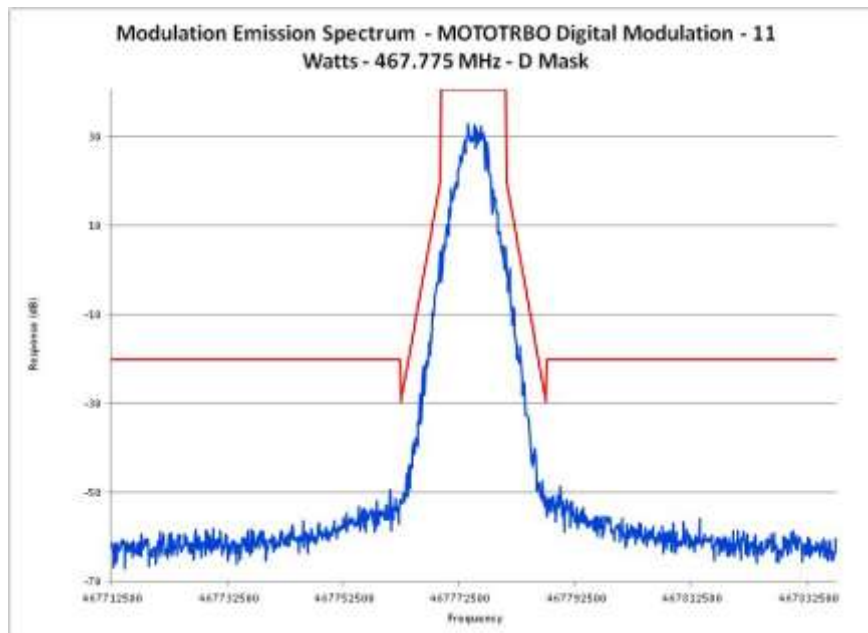


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E1-5.3 Occupied Bandwidth – MOTOTRBO™ Digital Modulation, 459.1250 MHz

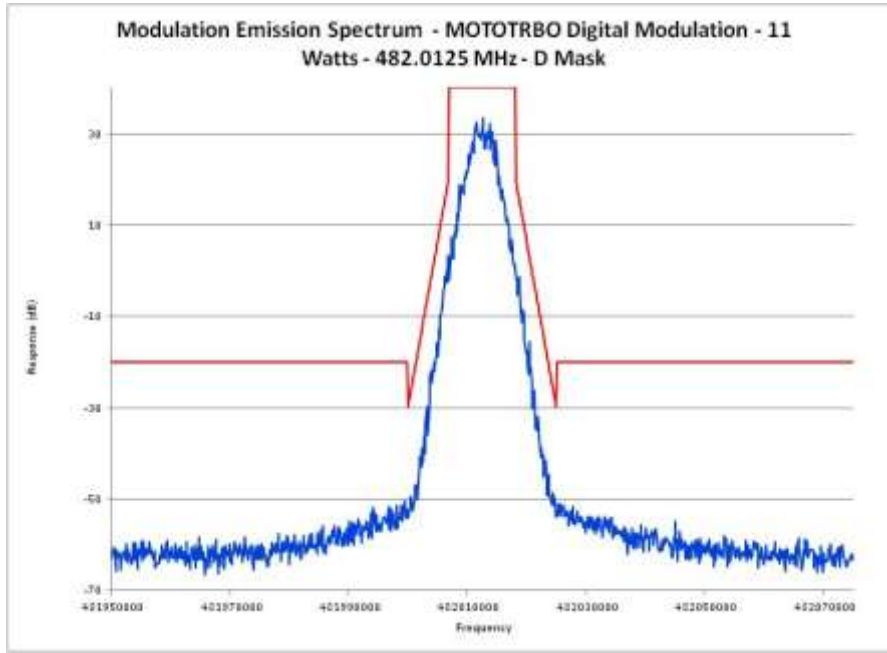


E1-5.4 Occupied Bandwidth – MOTOTRBO™ Digital Modulation, 467.7750 MHz

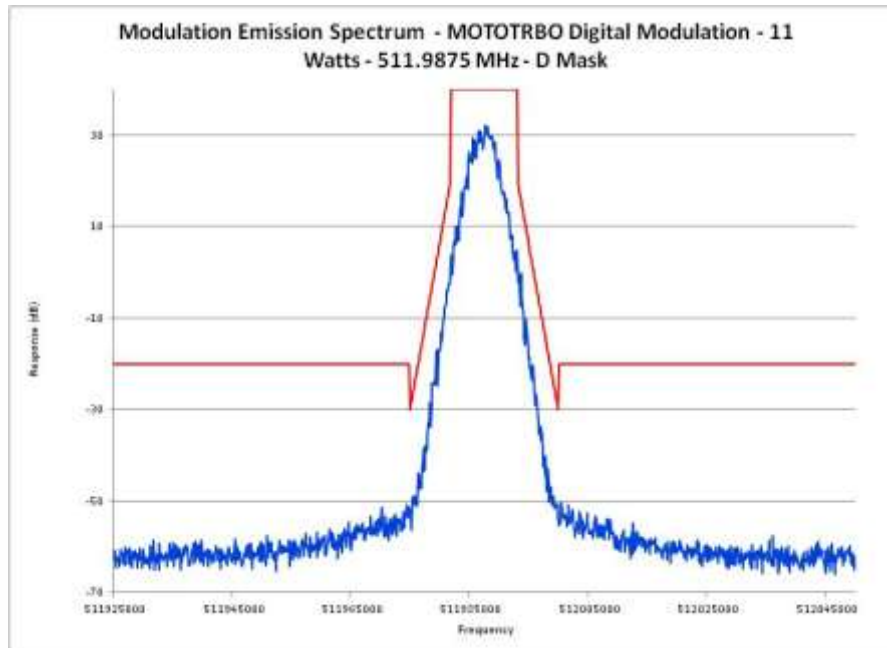


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E1-5.5 Occupied Bandwidth – MOTOTRBO™ Digital Modulation, 482.0125 MHz

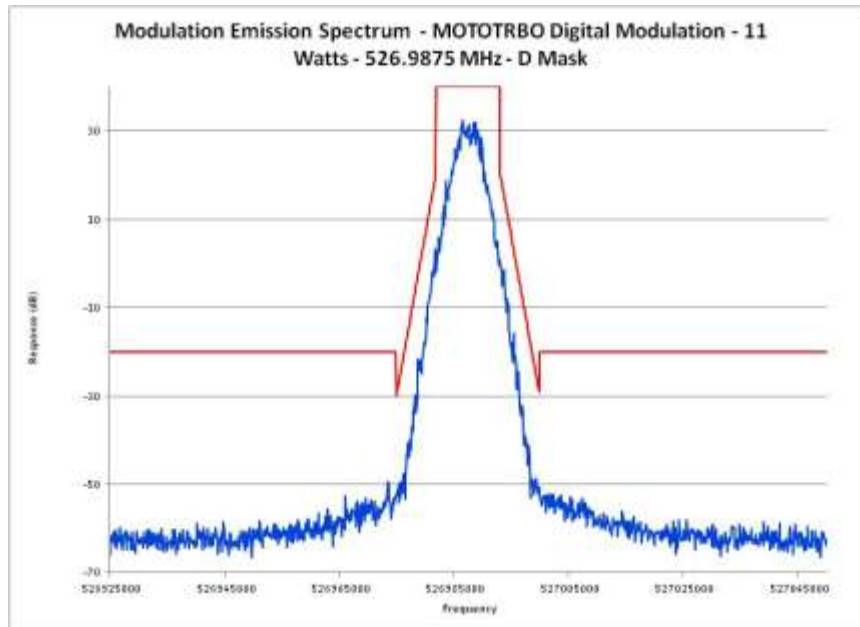


E1-5.6 Occupied Bandwidth – MOTOTRBO™ Digital Modulation, 511.9875 MHz

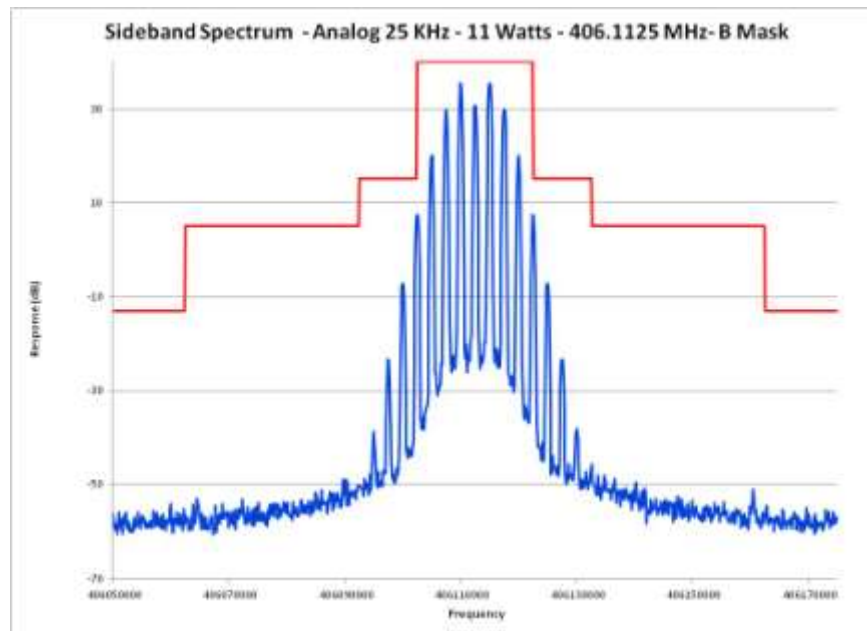


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E1-5.7 Occupied Bandwidth – MOTOTRBO™ Digital Modulation, 526.9875 MHz

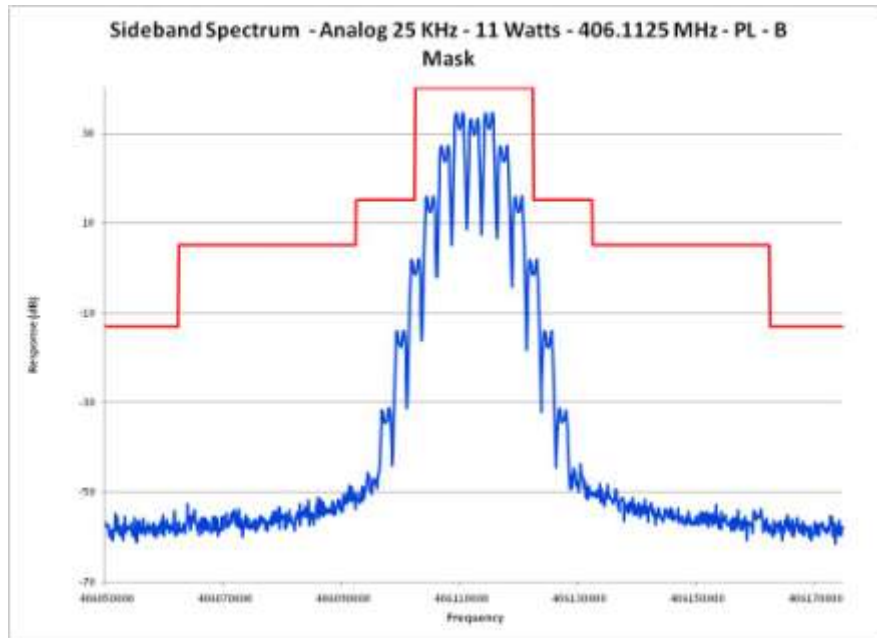


E1-5.8 Occupied Bandwidth, Analog, 25 kHz Channels, 406.1125 MHz

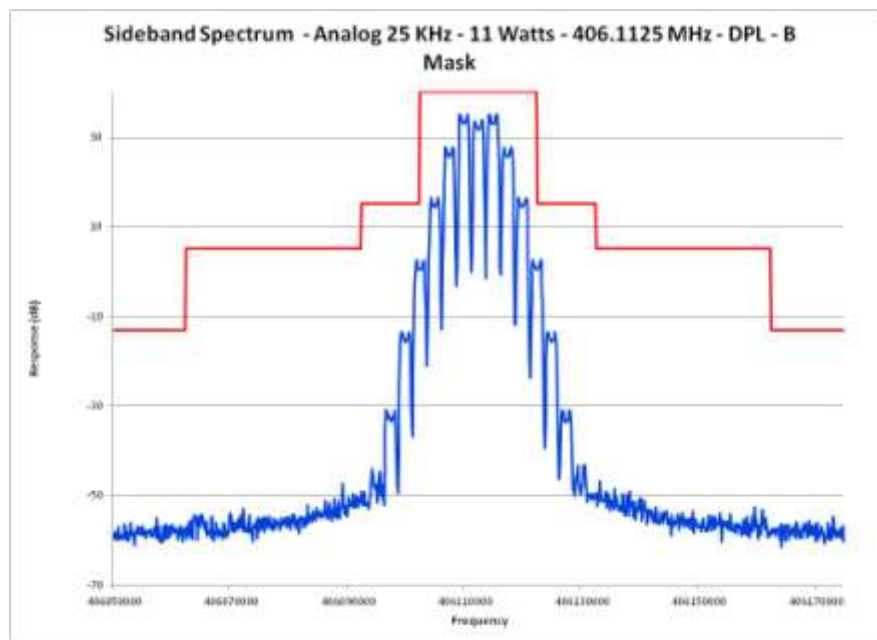


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E1-5.9 Occupied Bandwidth, Analog, 25 kHz Channels, 406.1125 MHz PL

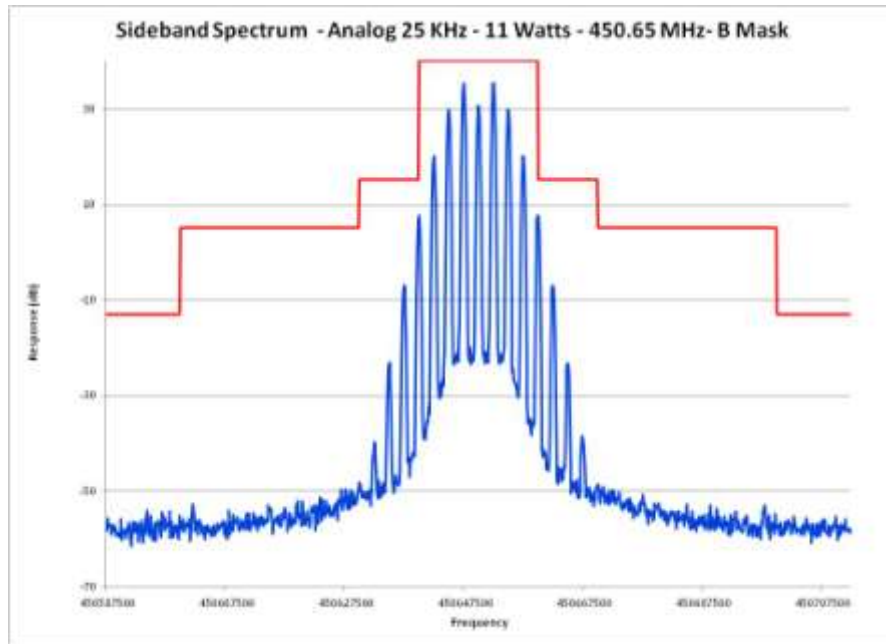


E1-5.10 Occupied Bandwidth, Analog, 25 kHz Channels, 406.1125 MHz DPL

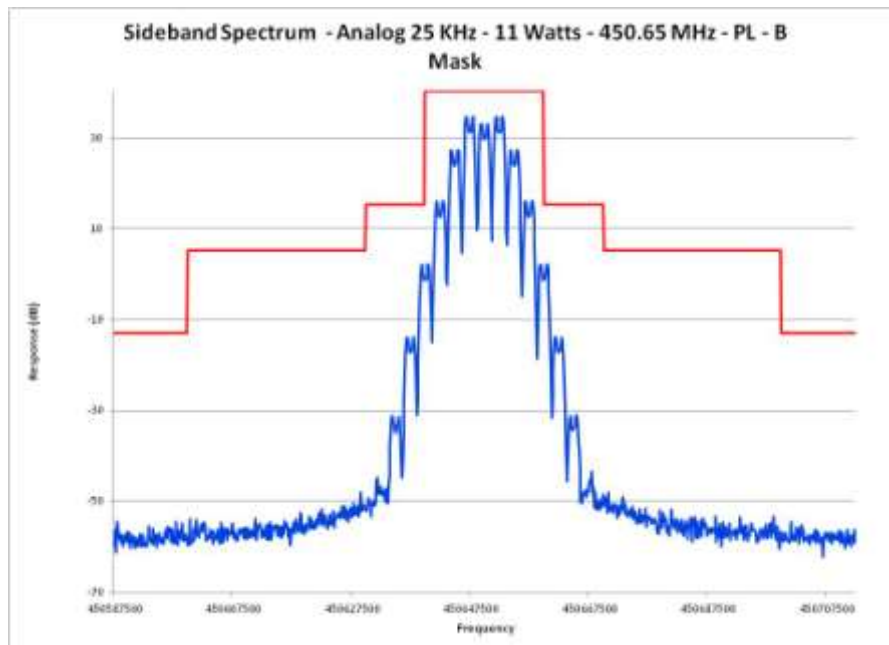


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E1-5.11 Occupied Bandwidth, Analog, 25 kHz Channels, 450.6500 MHz

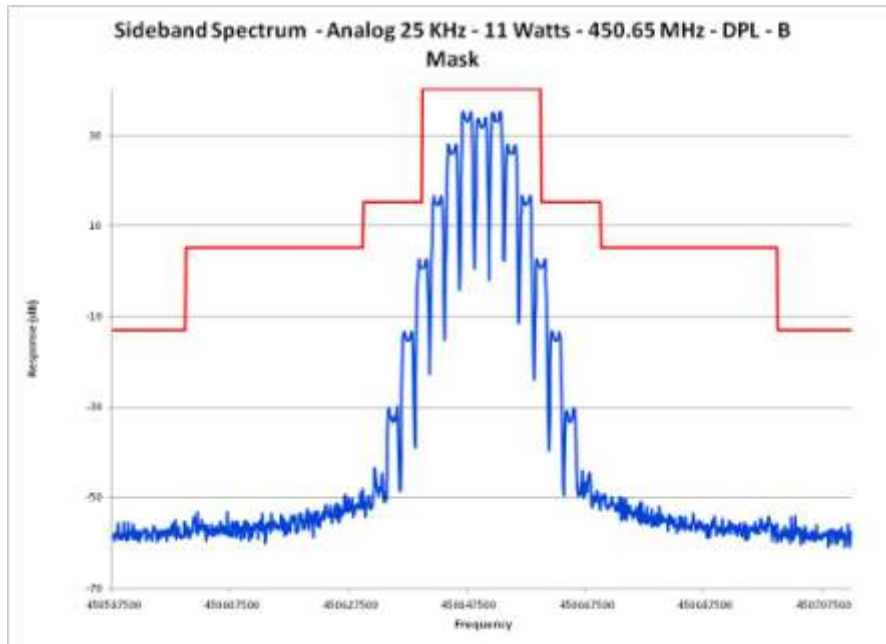


E1-5.12 Occupied Bandwidth, Analog, 25 kHz Channels, 450.6500 MHz PL

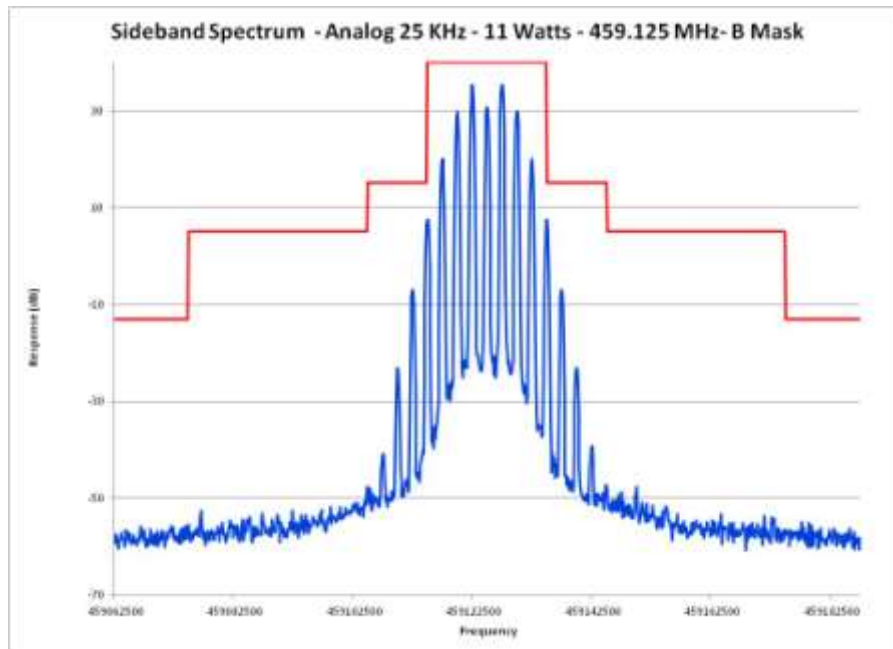


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E1-5.13 Occupied Bandwidth, Analog, 25 kHz Channels, 450.6500 MHz DPL

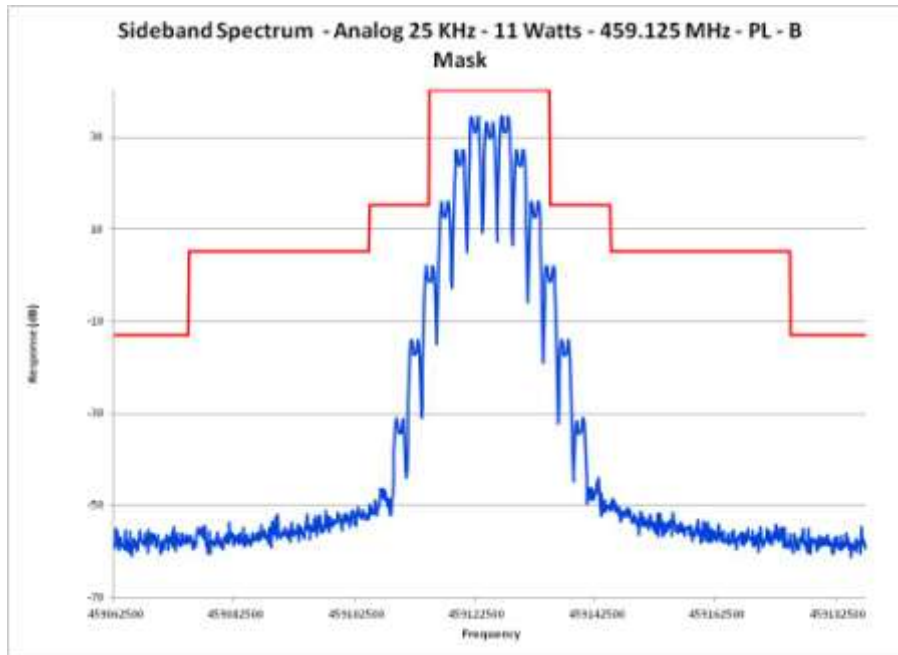


E1-5.14 Occupied Bandwidth, Analog, 25 kHz Channels, 459.1250 MHz

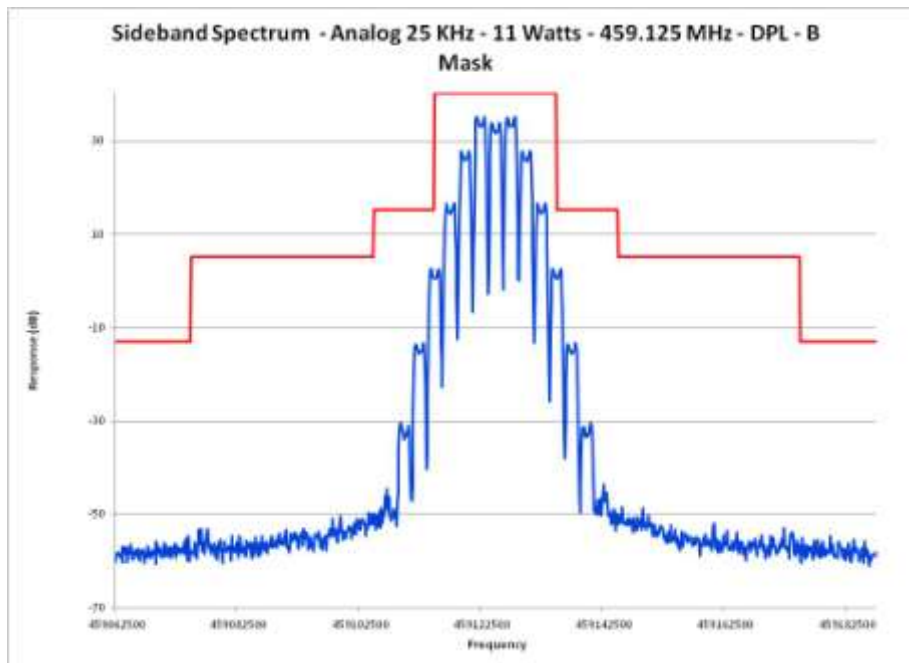


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-5.15 Occupied Bandwidth, Analog, 25 kHz Channels, 459.1250 MHz PL

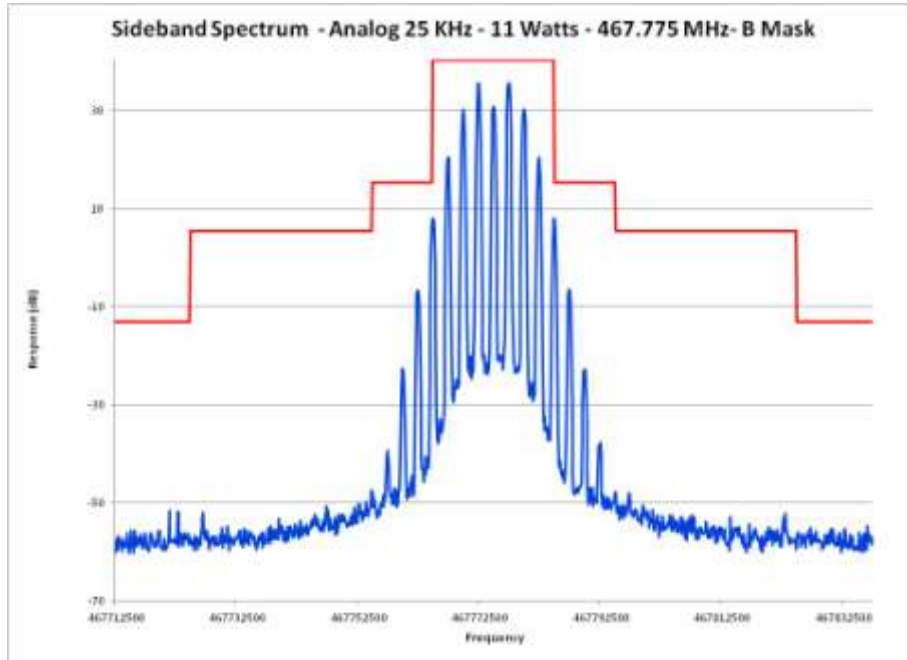


E1-5.16 Occupied Bandwidth, Analog, 25 kHz Channels, 459.1250 MHz DPL

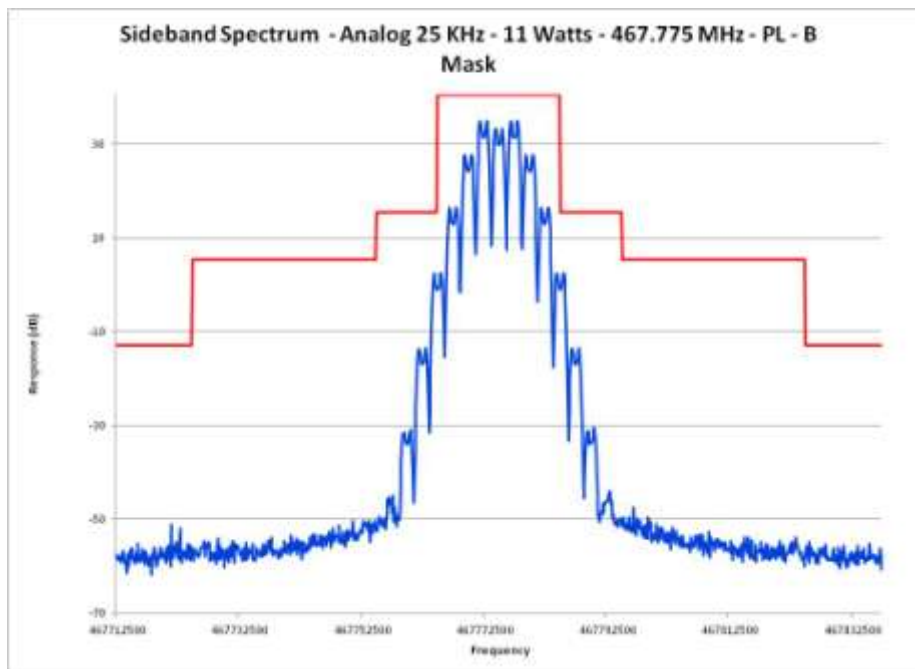


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-5.17 Occupied Bandwidth, Analog, 25 kHz Channels, 467.775 MHz

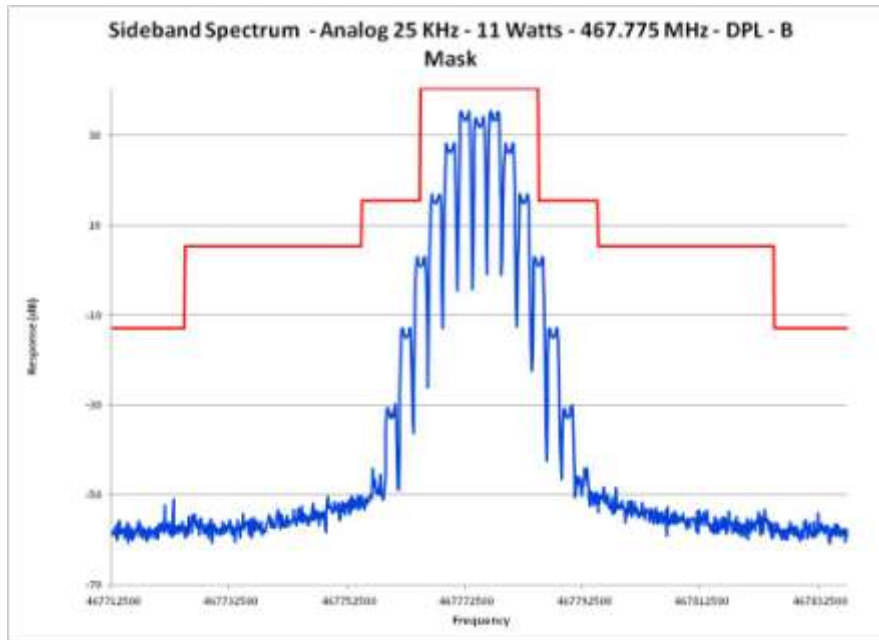


E1-5.18 Occupied Bandwidth, Analog, 25 kHz Channels, 467.775 MHz PL

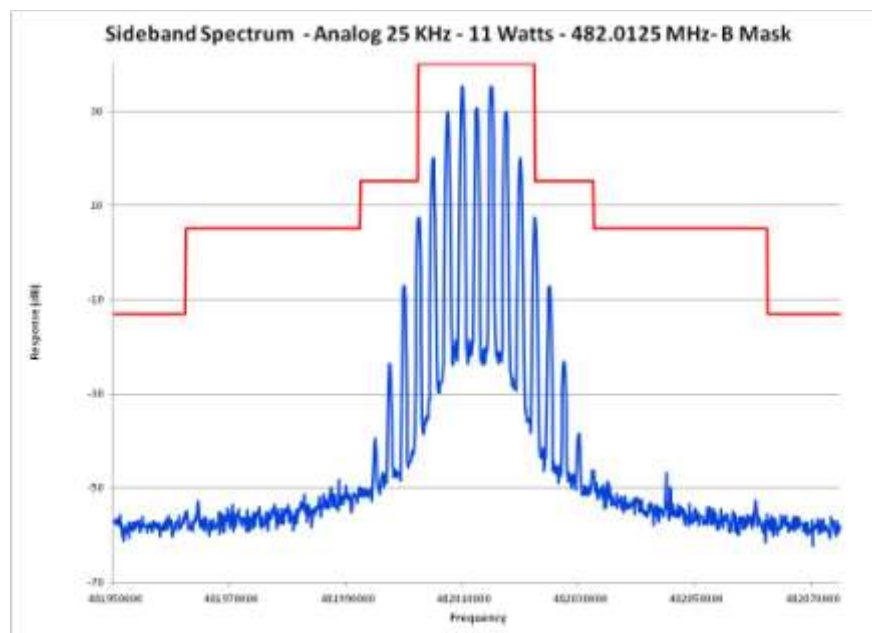


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-5.19 Occupied Bandwidth, Analog, 25 kHz Channels, 467.775 MHz DPL

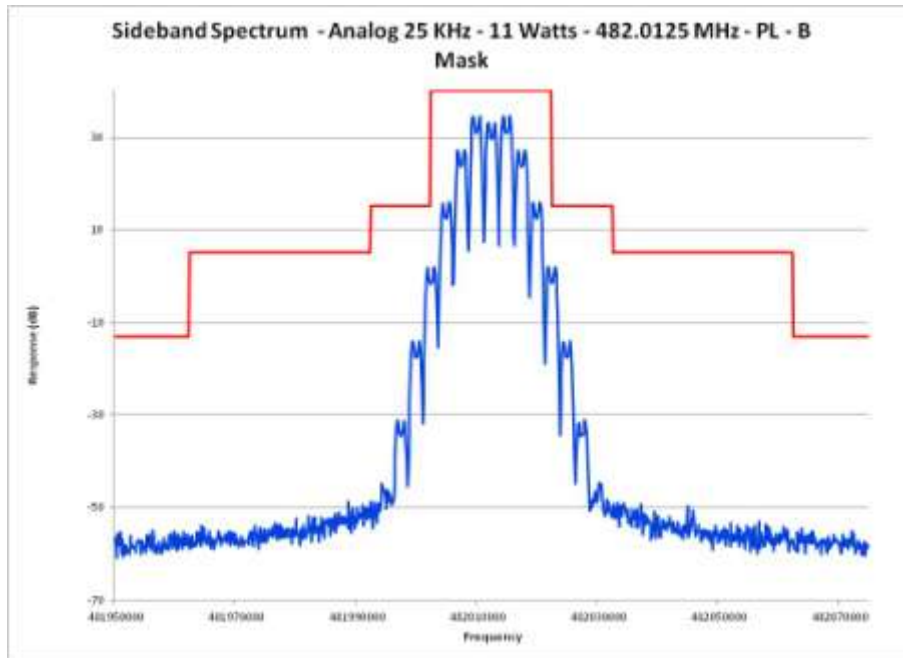


E1-5.20 Occupied Bandwidth, Analog, 25 kHz Channels, 482.0125 MHz

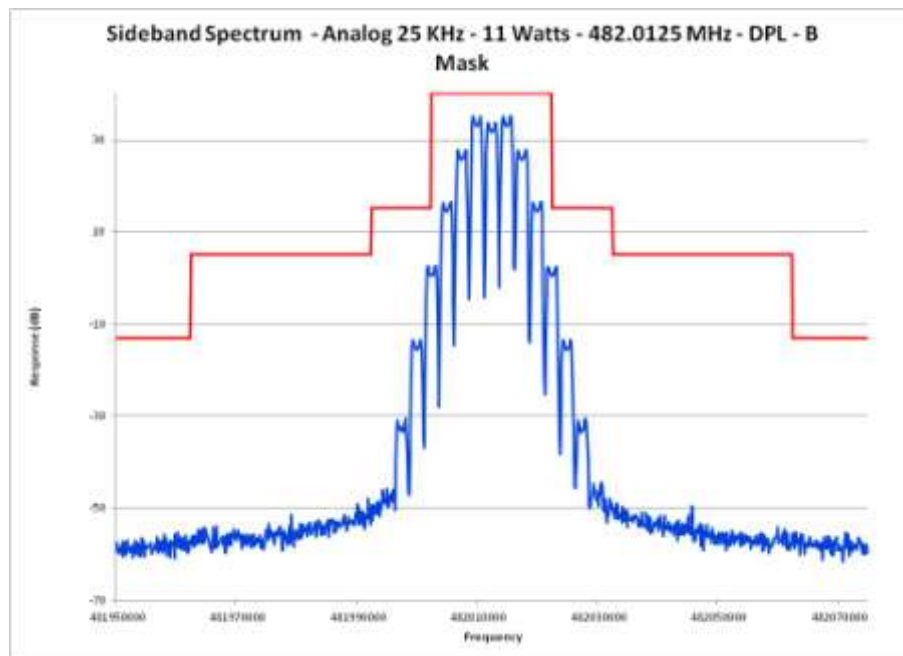


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-5.21 Occupied Bandwidth, Analog, 25 kHz Channels, 482.0125 MHz PL

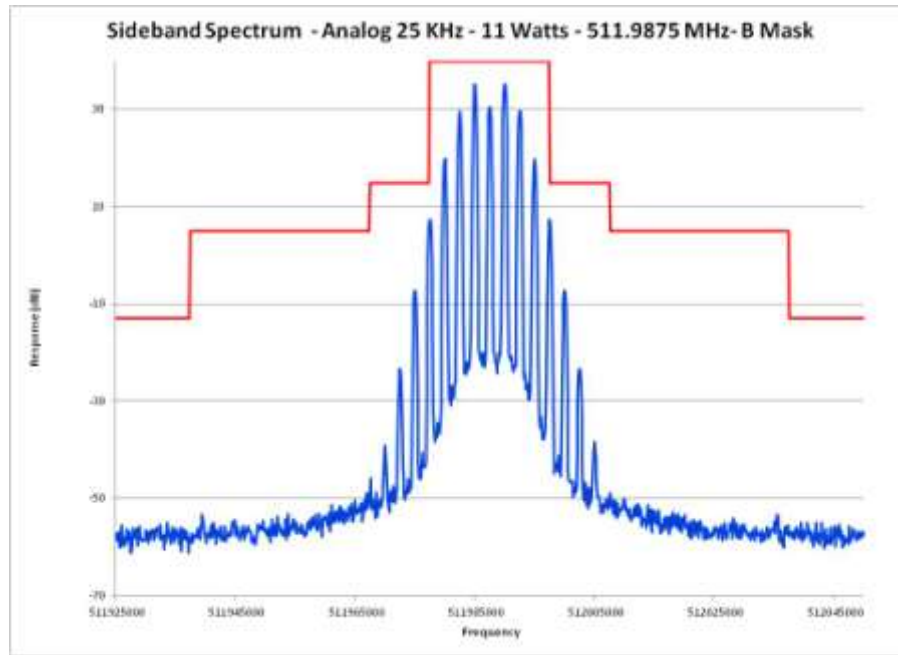


E1-5.22 Occupied Bandwidth, Analog, 25 kHz Channels, 482.0125 MHz DPL

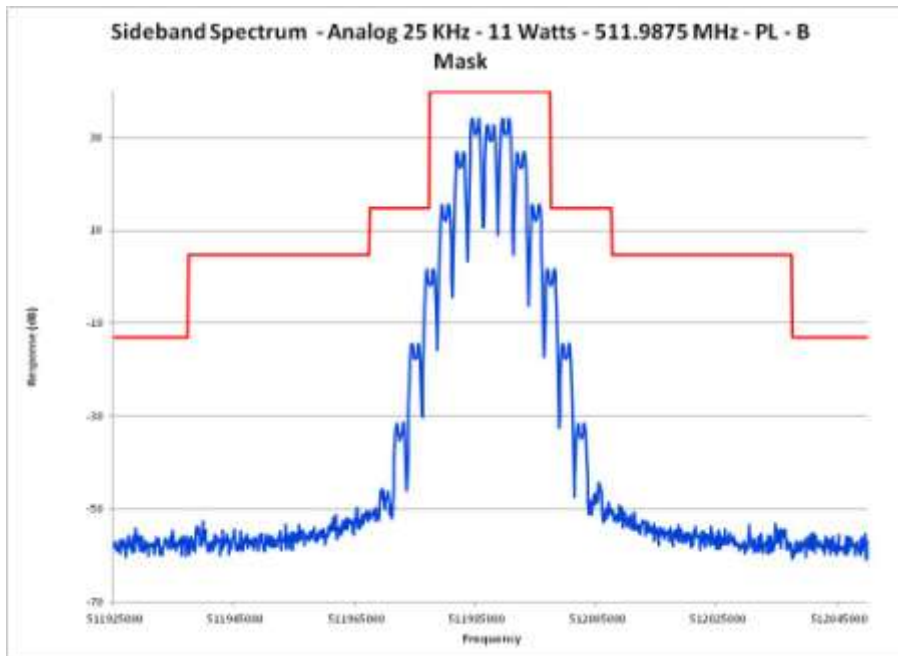


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-5.23 Occupied Bandwidth, Analog, 25 kHz Channels, 511.9875 MHz

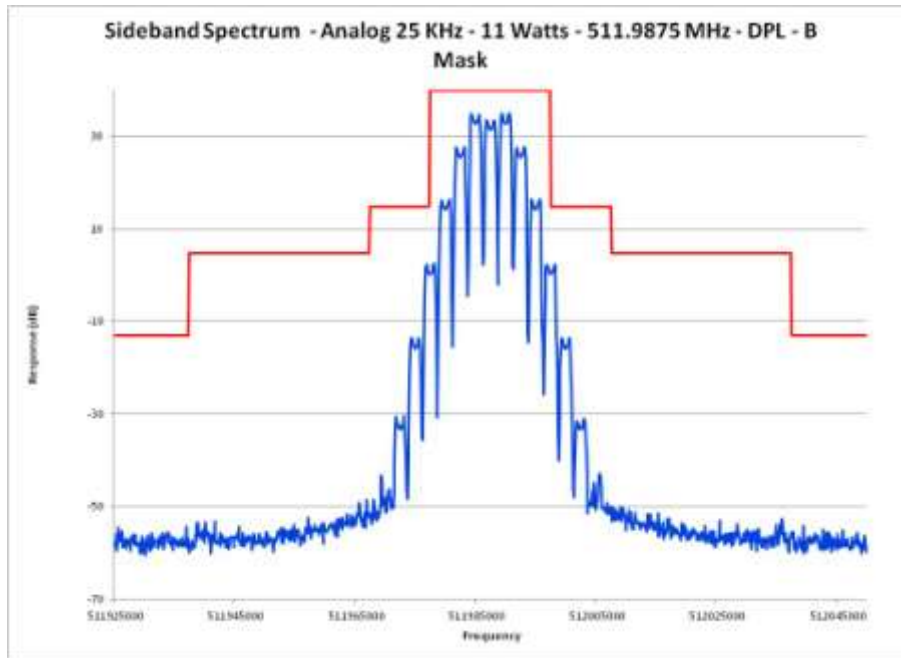


E1-5.24 Occupied Bandwidth, Analog, 25 kHz Channels, 511.9875 MHz PL

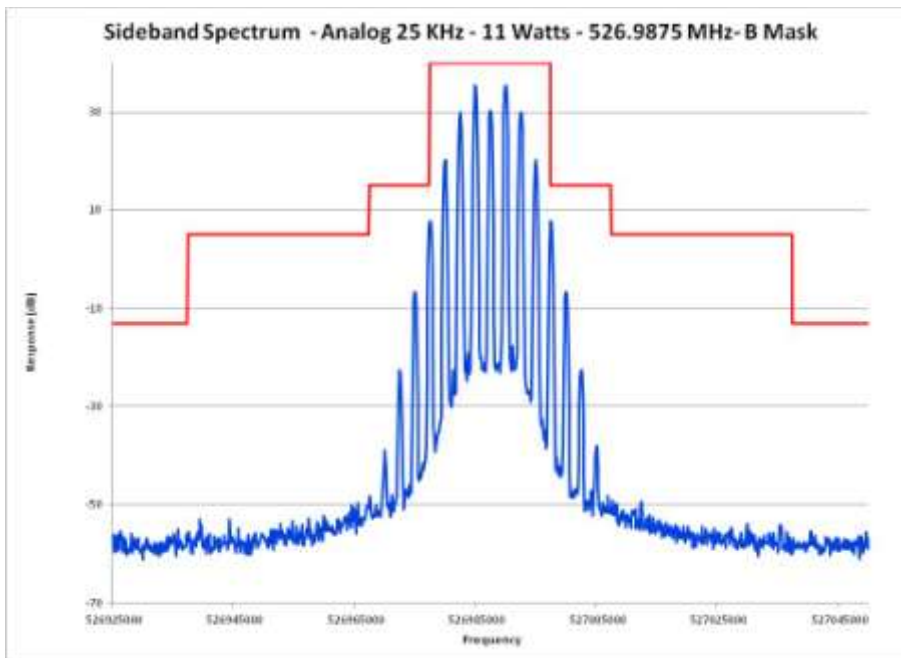


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-5.25 Occupied Bandwidth, Analog, 25 kHz Channels, 511.9875 MHz DPL

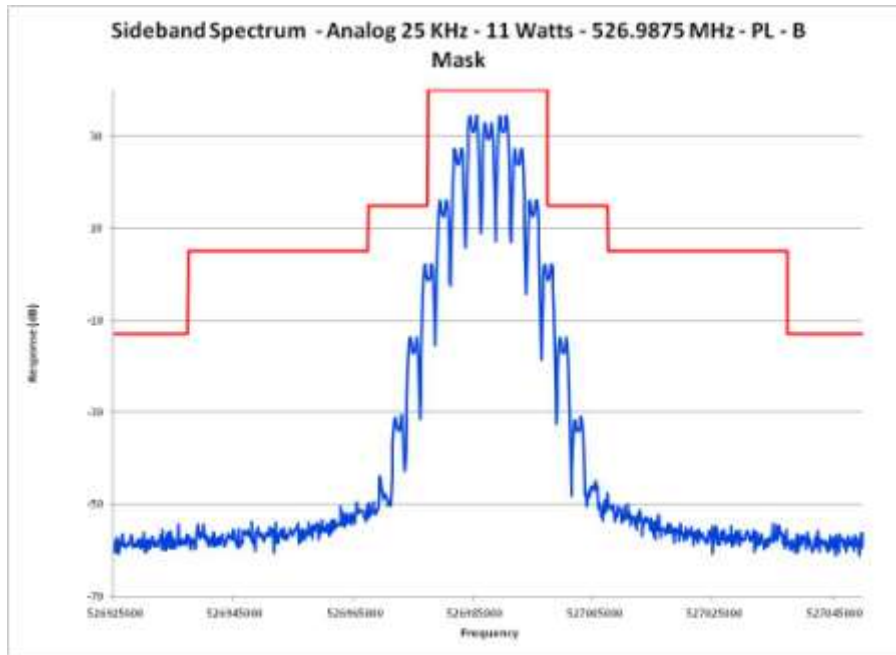


E1-5.26 Occupied Bandwidth, Analog, 25 kHz Channels, 526.9875 MHz

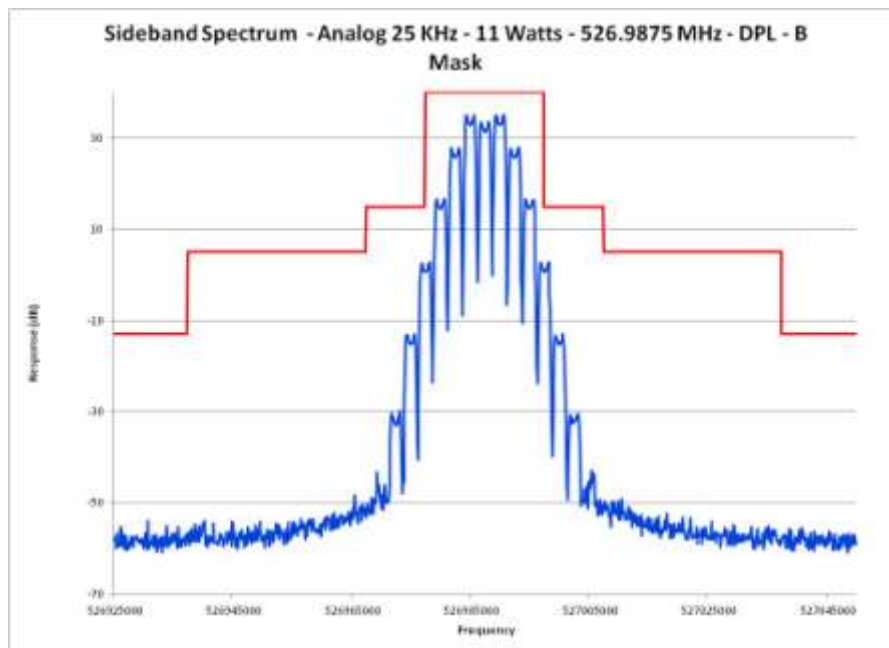


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-5.27 Occupied Bandwidth, Analog, 25 kHz Channels, 526.9875 MHz PL

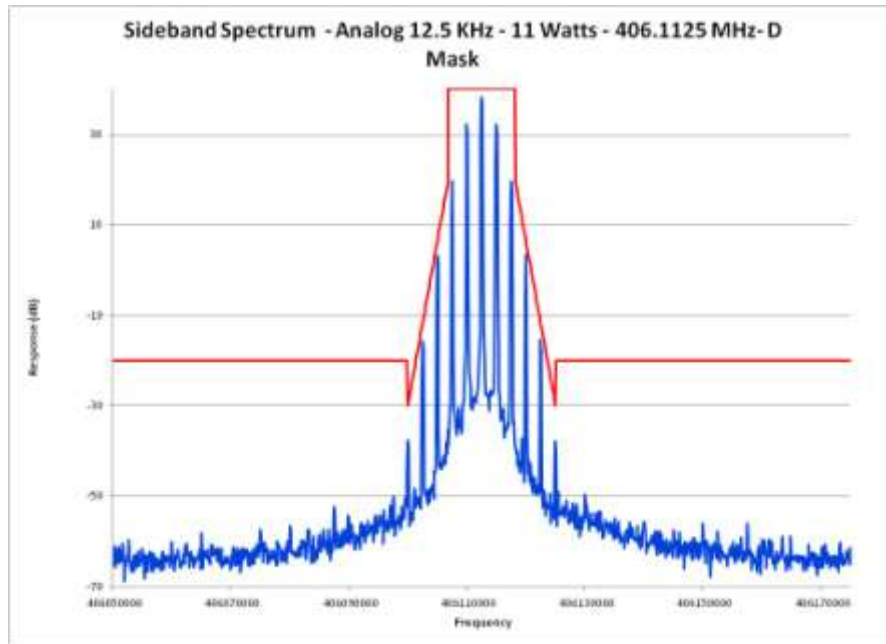


E1-5.28 Occupied Bandwidth, Analog, 25 kHz Channels, 526.9875 MHz DPL

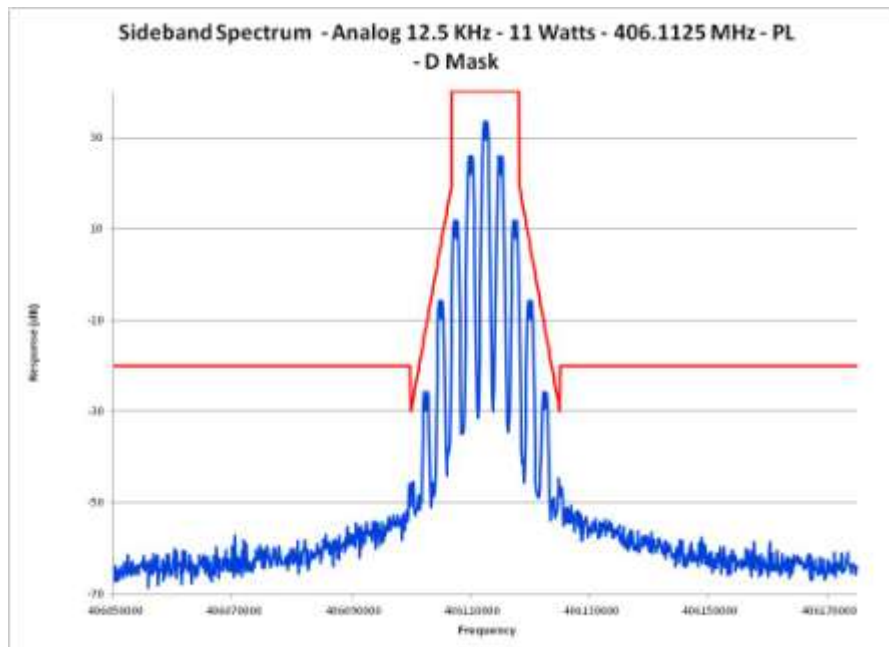


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-5.29 Occupied Bandwidth, Analog, 12.5 kHz Channels, 406.1125 MHz

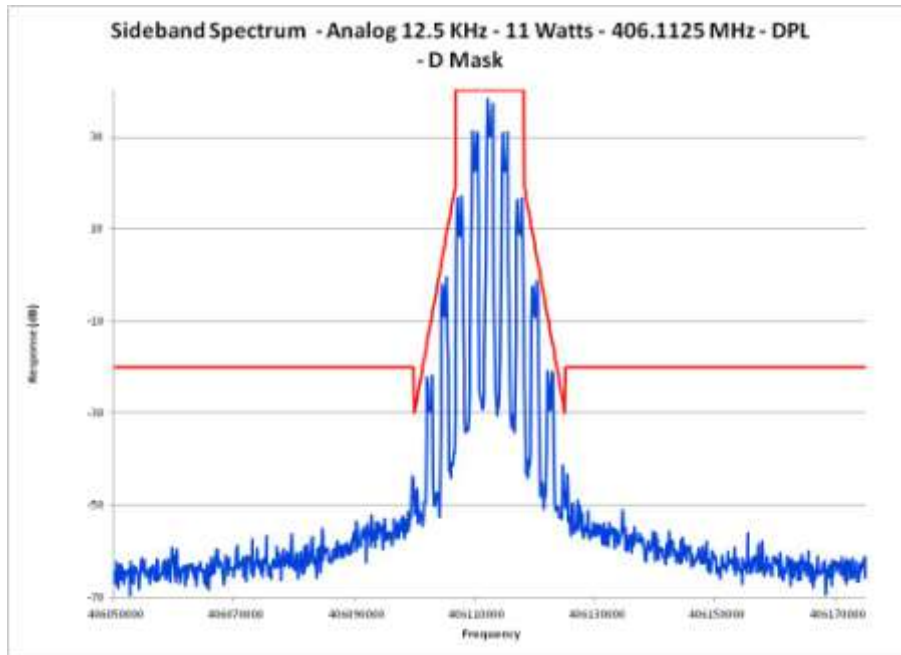


E1-5.30 Occupied Bandwidth, Analog, 12.5 kHz Channels, 406.1125 MHz PL

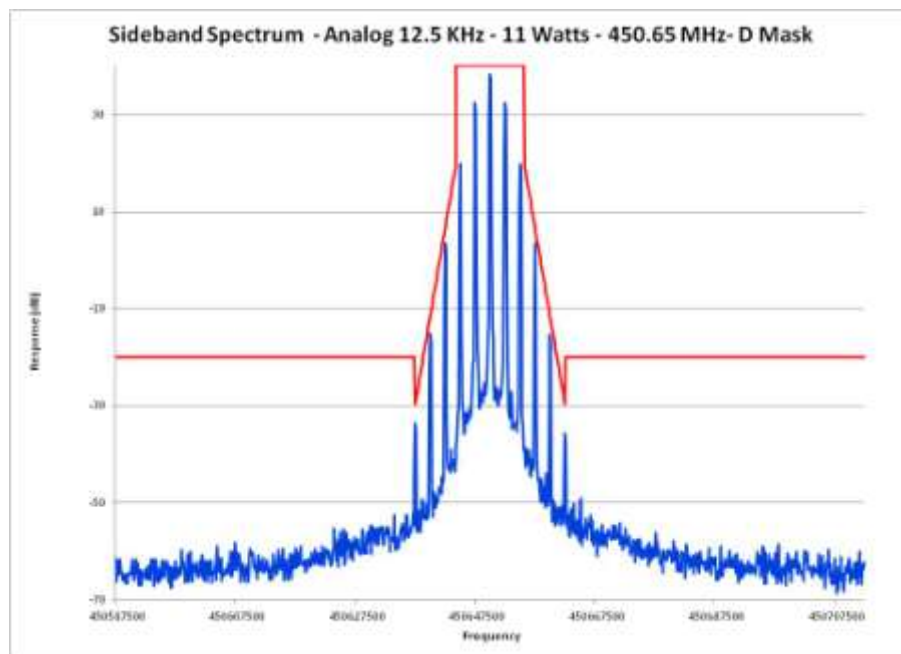


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-5.31 Occupied Bandwidth, Analog, 12.5 kHz Channels, 406.1125 MHz DPL

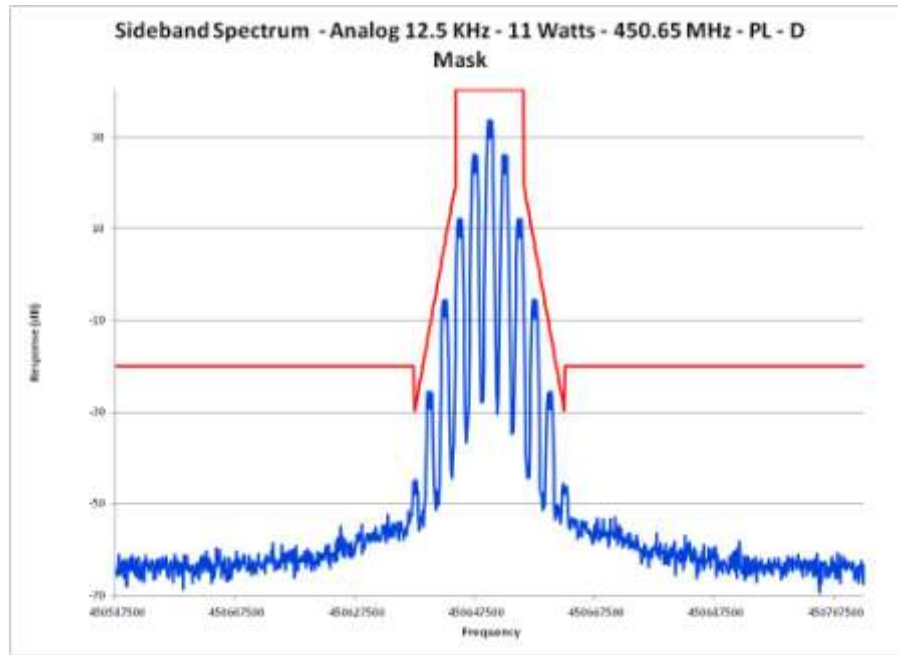


E1-5.32 Occupied Bandwidth, Analog, 12.5 kHz Channels, 450.6500 MHz

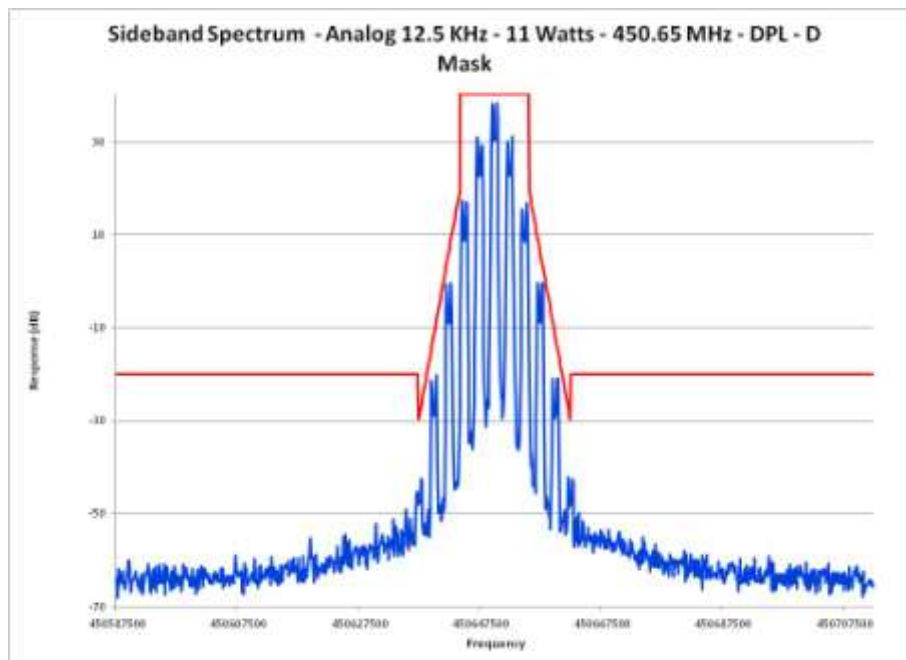


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-5.33 Occupied Bandwidth, Analog, 12.5 kHz Channels, 450.6500 MHz PL

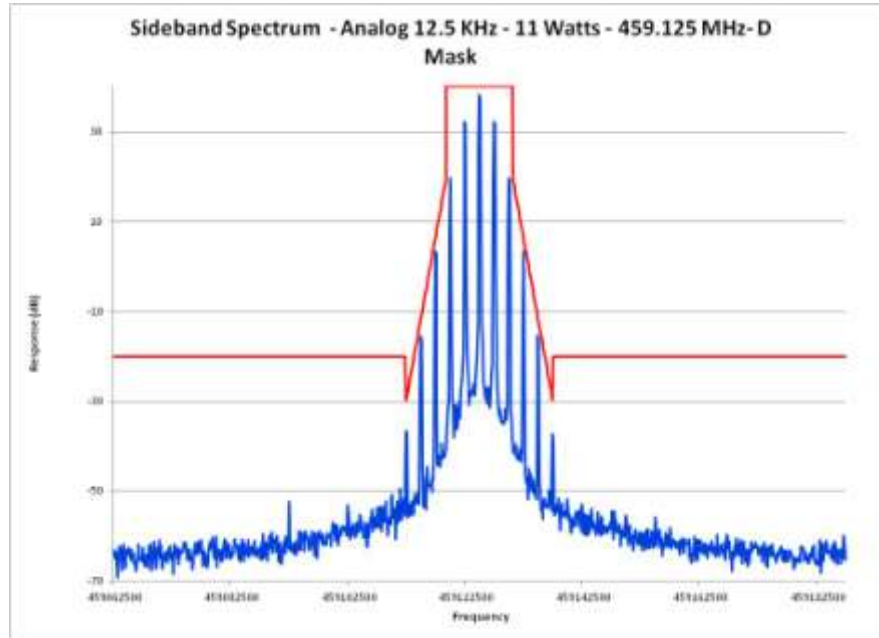


E1-5.34 Occupied Bandwidth, Analog, 12.5 kHz Channels, 450.6500 MHz DPL

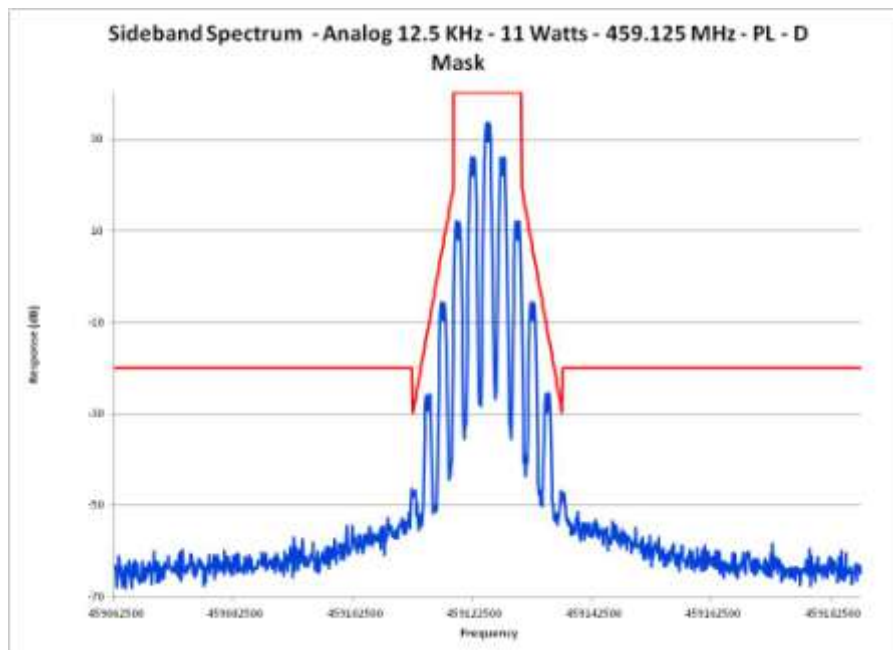


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-5.35 Occupied Bandwidth, Analog, 12.5 kHz Channels, 459.1250 MHz

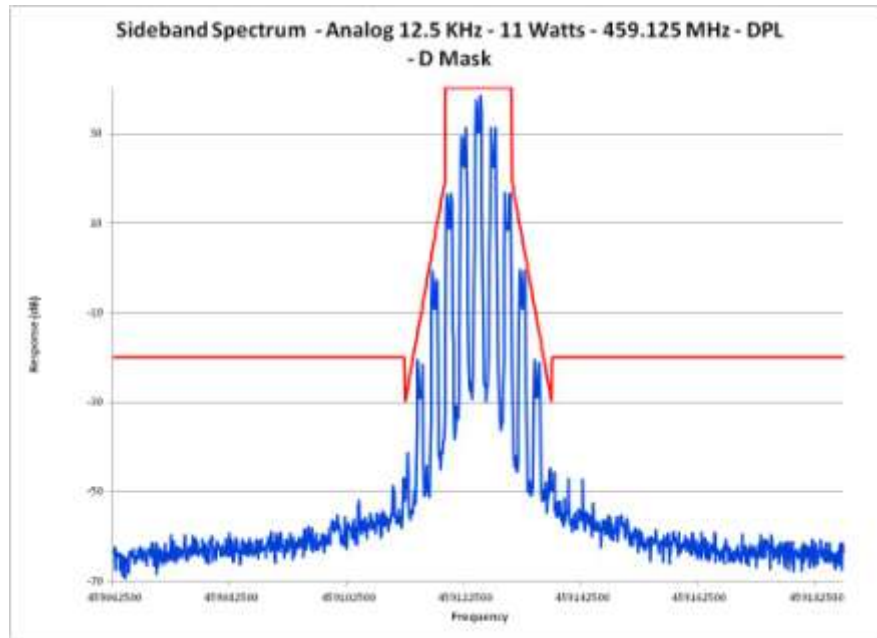


E1-5.36 Occupied Bandwidth, Analog, 12.5 kHz Channels, 459.1250 MHz PL

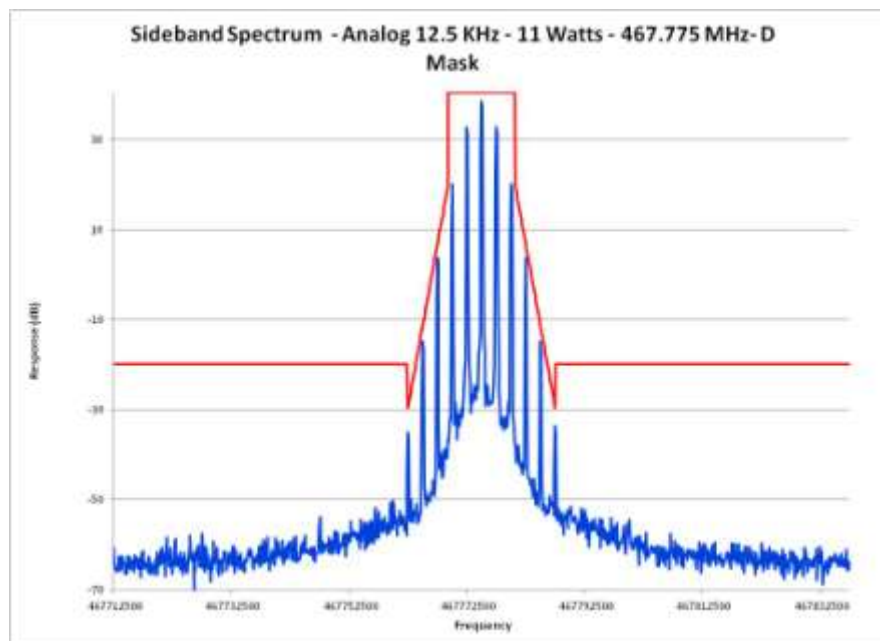


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-5.37 Occupied Bandwidth, Analog, 12.5 kHz Channels, 459.1250 MHz DPL

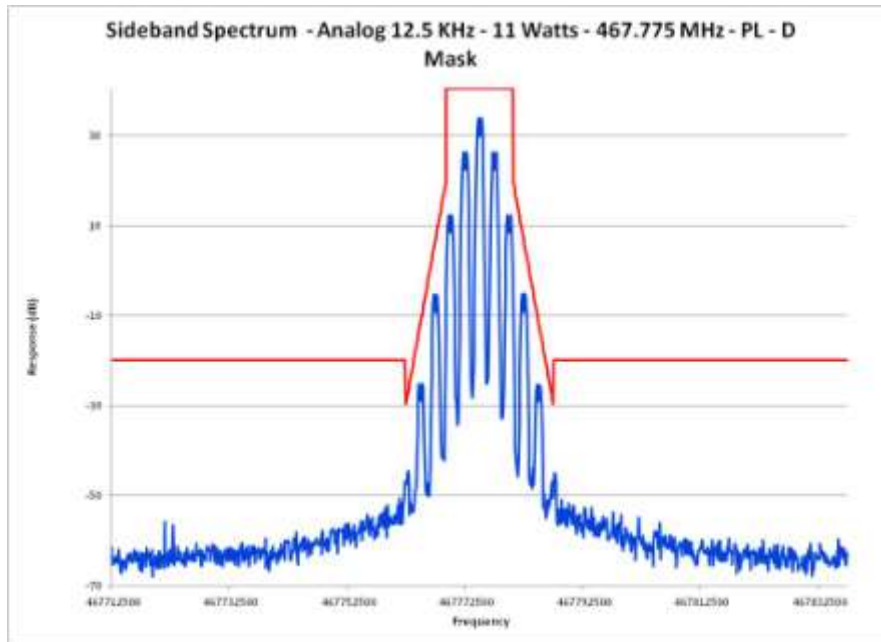


E1-5.38 Occupied Bandwidth, Analog, 12.5 kHz Channels, 467.7750 MHz

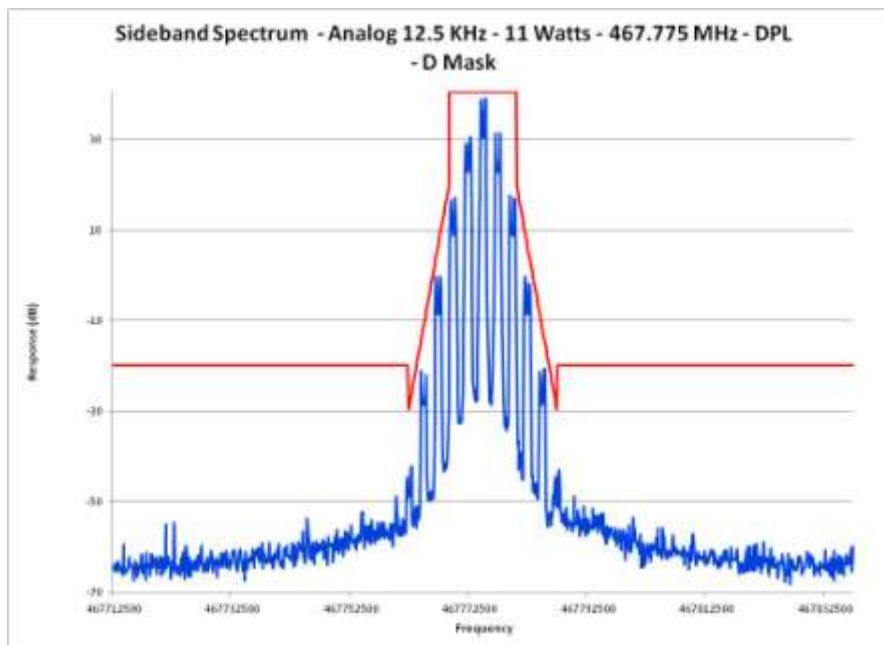


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-5.39 Occupied Bandwidth, Analog, 12.5 kHz Channels, 467.7750 MHz PL

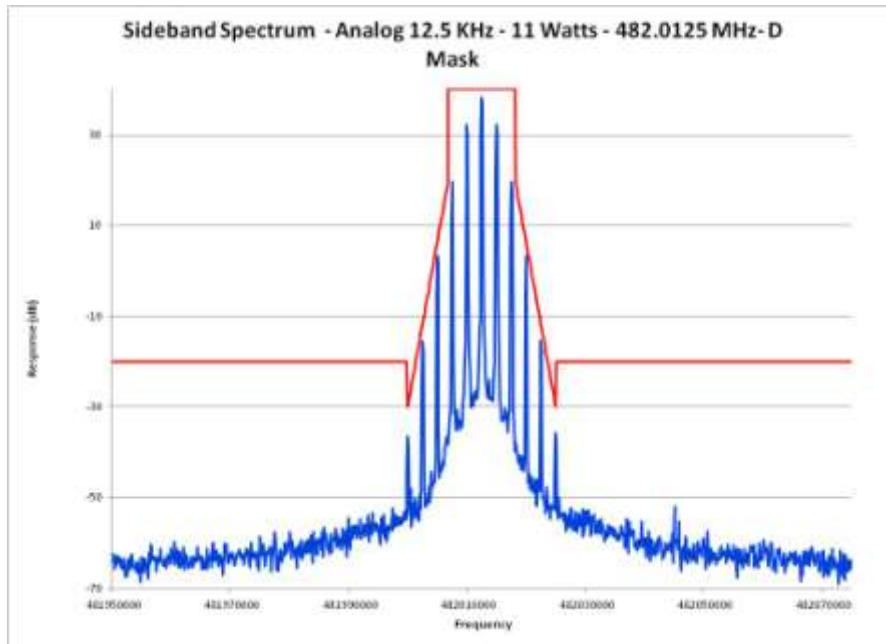


E1-5.40 Occupied Bandwidth, Analog, 12.5 kHz Channels, 467.7750 MHz DPL

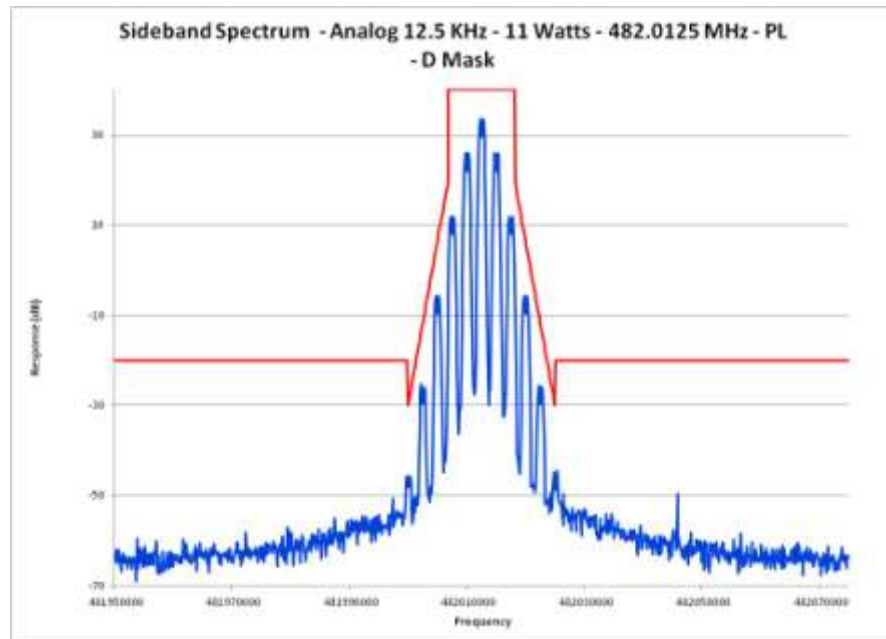


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-5.41 Occupied Bandwidth, Analog, 12.5 kHz Channels, 482.0125 MHz

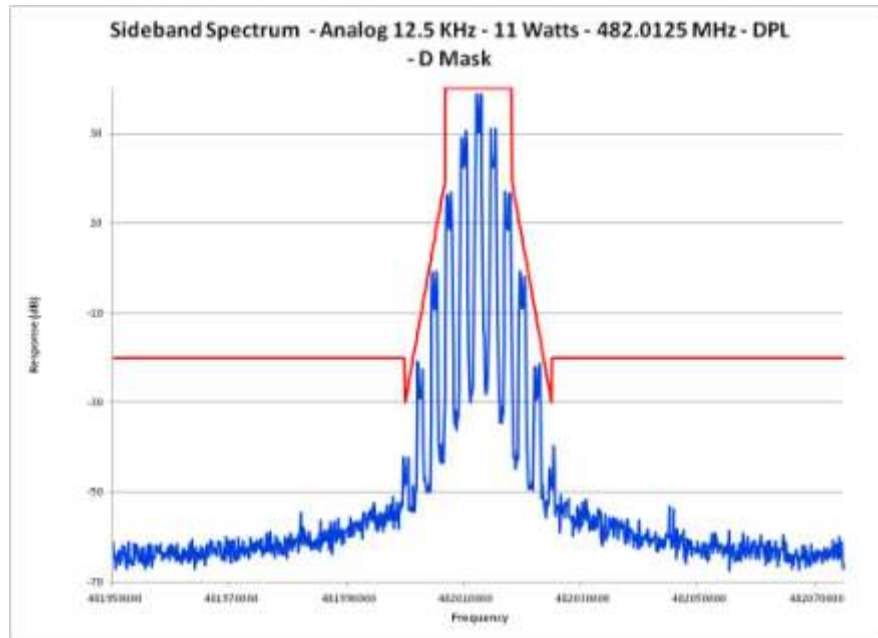


E1-5.42 Occupied Bandwidth, Analog, 12.5 kHz Channels, 482.0125 MHz PL

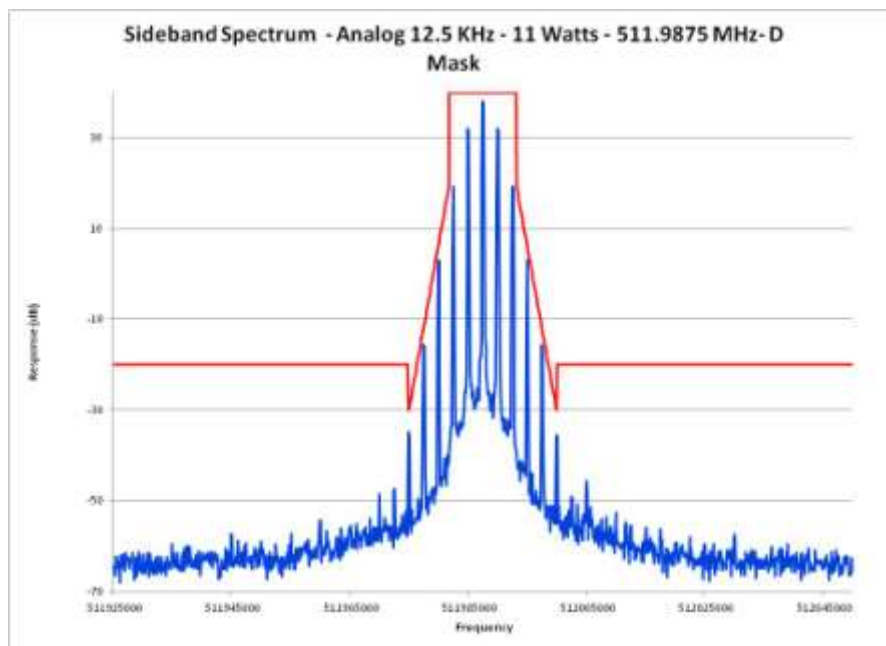


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-5.43 Occupied Bandwidth, Analog, 12.5 kHz Channels, 482.0125 MHz DPL

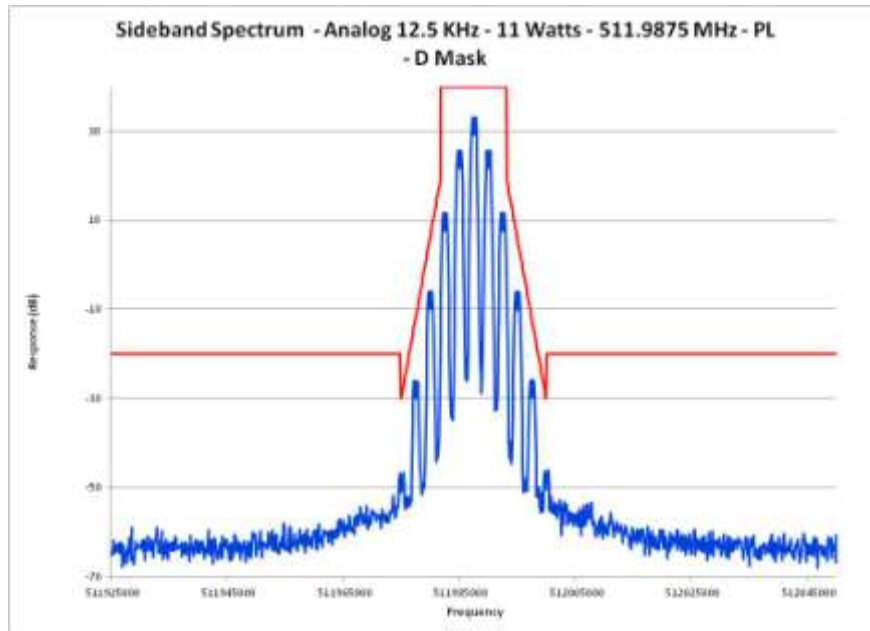


E1-5.44 Occupied Bandwidth, Analog, 12.5 kHz Channels, 511.9875 MHz

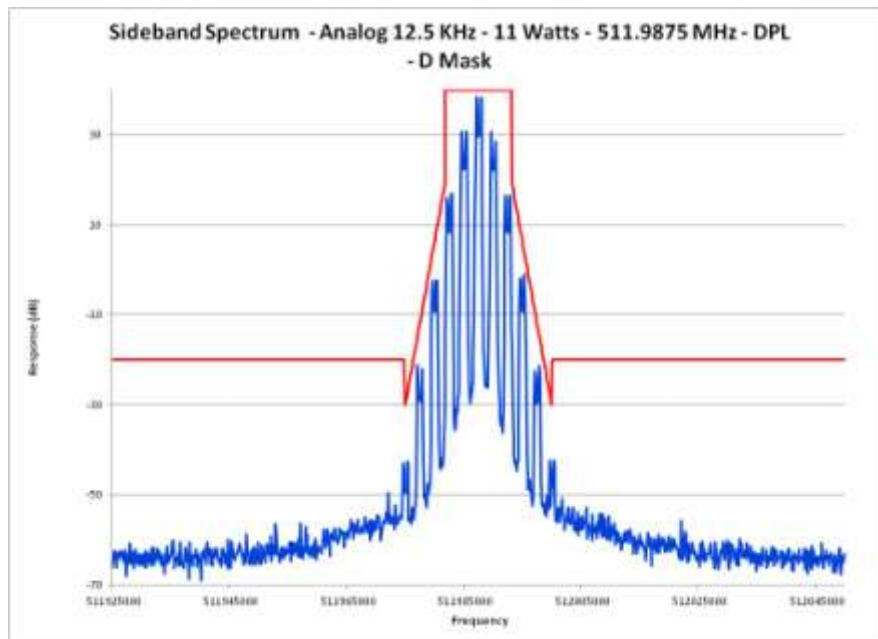


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-5.45 Occupied Bandwidth, Analog, 12.5 kHz Channels, 511.9875 MHz PL

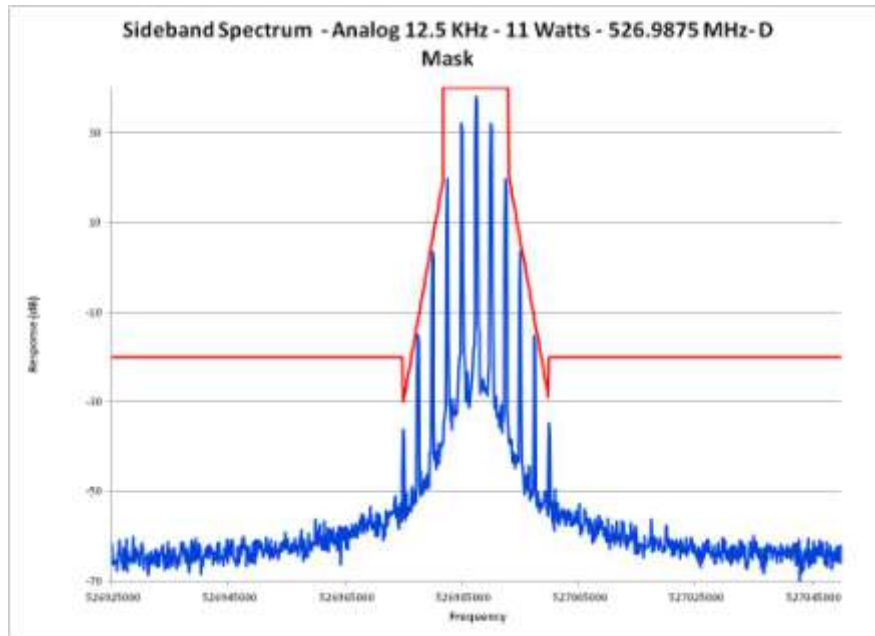


E1-5.46 Occupied Bandwidth, Analog, 12.5 kHz Channels, 511.9875 MHz DPL

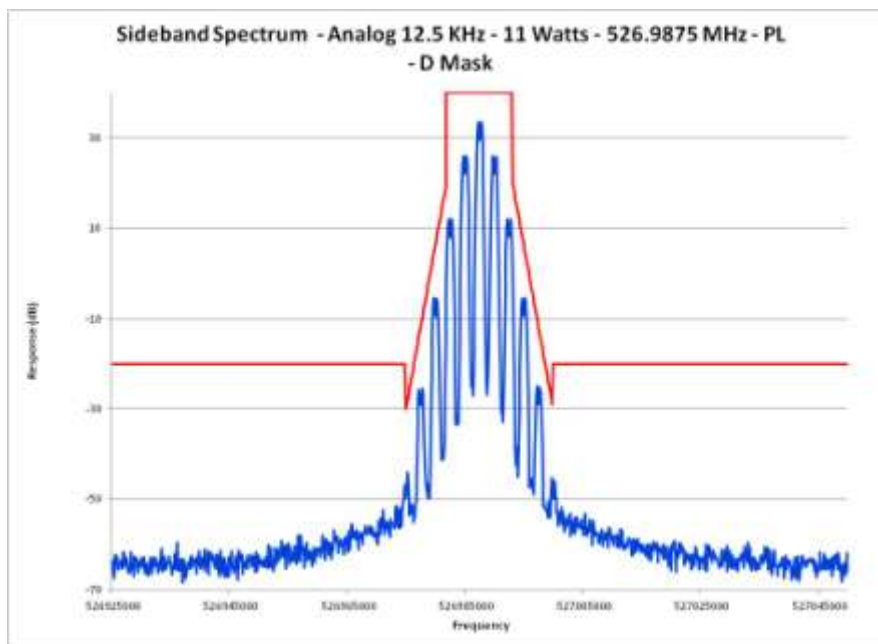


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-5.47 Occupied Bandwidth, Analog, 12.5 kHz Channels, 526.9875 MHz

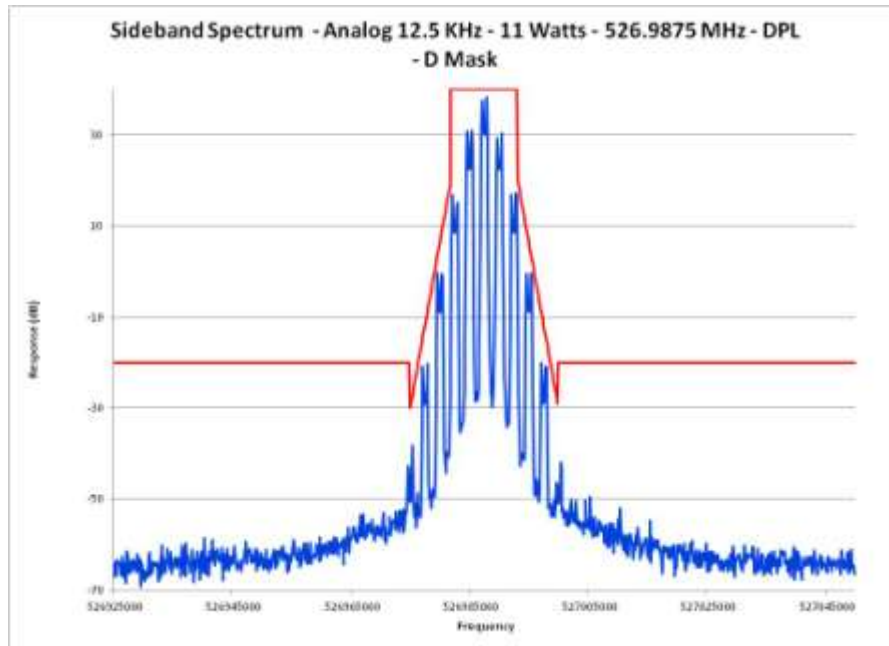


E1-5.48 Occupied Bandwidth, Analog, 12.5 kHz Channels, 526.9875 MHz PL



Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-5.49 Occupied Bandwidth, Analog, 12.5 kHz Channels, 526.9875 MHz DPL



Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-6 Conducted Spurious Emissions – Harmonics and Emission Spectrum

Specification Requirement 47 CFR §90.210(b) and IC RSS-119 section 5.8.1 - Emission Limits – “B-Mask”:

For transmitters equipped with an audio low pass filter and designed to operate with a 25 kHz channel spacing (authorized bandwidth 20 kHz), the power of any emission must be below the unmodulated carrier power (P) as follows:

On any frequency removed from the assigned frequency by a displacement frequency (Fd in kHz) of: c) >50 kHz
at least $43 + 10 * \text{Log}_{10}(P)$ dB.

Specification Requirement 47 CFR §90.210(d) and IC RSS-119 section 5.8.3 - Emission Limits – “D-Mask”:

Emission Mask D: For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

(3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 12.5 kHz:

At least 50 plus $10 \log_{10}(P)$ dB or 70 dB,
whichever is the lesser attenuation.

Modulation: Analog Frequency Modulation – this is also representative of the performance of MOTOTRBO™ Digital Modulation, which is 4-level frequency modulation of the carrier.

Carrier Frequencies: Carrier frequencies of 406.1125, 450.65, 459.125, 467.775, 482.0125, 511.9875 and 526.9875 MHz were measured for conducted carrier harmonics.

Carrier frequencies of 406.1125, 450.65, 459.125, 467.775, 482.0125, 511.9875 and 526.9875 MHz were measured for conducted spurious emission measurements

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

| <u>EXHIBIT</u> | <u>DESCRIPTION</u> |
|----------------|--|
| E1-6.1 | Conducted Spurious Harmonic Emissions, Power Output 11 Watts The specification limit is -70.0 dBc |
| E1-6.2 | Conducted Spurious Harmonic Emissions, Power Output 1 Watt The specification limit is -50.0 dBc |
| E1-6.3 | Conducted Spurious Emission Spectrum, 200 MHz Span, Power 11 Watts, 406.1125 MHz |
| E1-6.4 | Conducted Spurious Emission Spectrum, 200 MHz Span, Power 11 Watts, 450.6500 MHz |
| E1-6.5 | Conducted Spurious Emission Spectrum, 200 MHz Span, Power 11 Watts, 459.1250 MHz |
| E1-6.6 | Conducted Spurious Emission Spectrum, 200 MHz Span, Power 11 Watts, 467.7750 MHz |
| E1-6.7 | Conducted Spurious Emission Spectrum, 200 MHz Span, Power 11 Watts, 482.0125 MHz |
| E1-6.8 | Conducted Spurious Emission Spectrum, 200 MHz Span, Power 11 Watts, 511.9875 MHz |
| E1-6.9 | Conducted Spurious Emission Spectrum, 200 MHz Span, Power 11 Watts, 526.9875 MHz |

APPLICANT: MOTOROLA SOLUTIONS

EQUIPMENT TYPE: ABZ99FT4100B

109AB-99FT4100B

**Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC
47 CFR 90 and IC RSS-119.**

E1-6.1 Conducted Spurious Harmonic Emissions, Power Output 11 Watts

APPLICANT: MOTOROLA SOLUTIONS

EQUIPMENT TYPE: ABZ99FT4100B

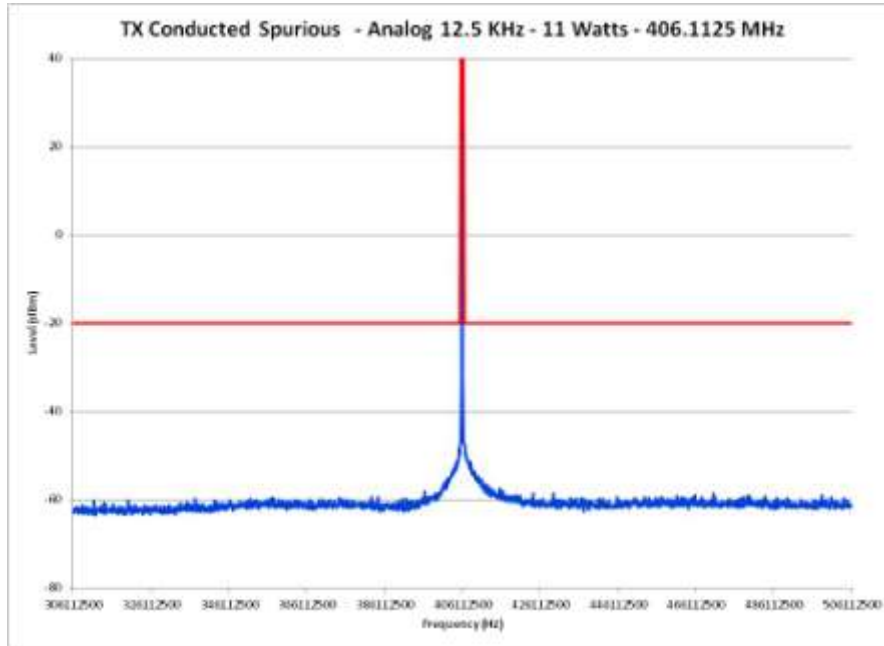
109AB-99FT4100B

**Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC
47 CFR 90 and IC RSS-119.**

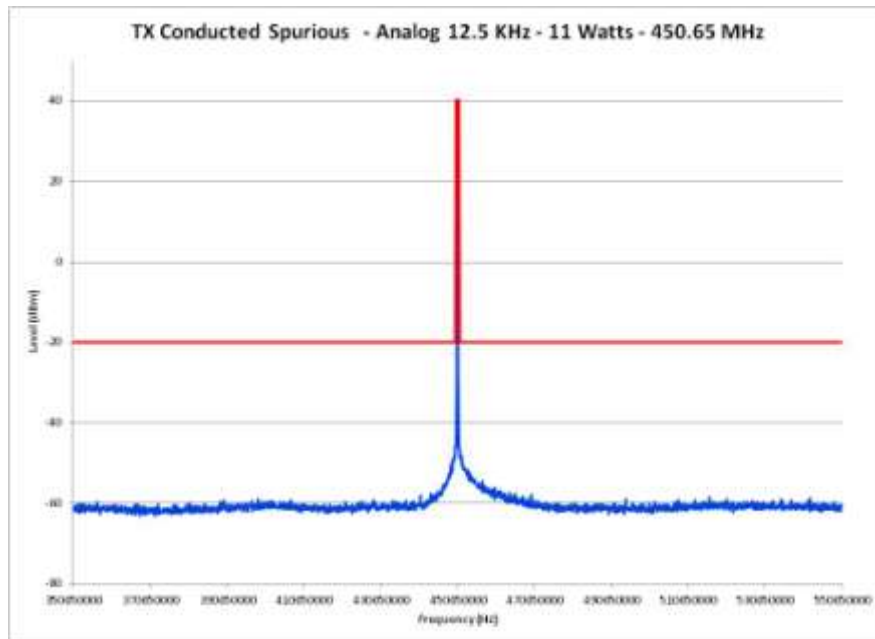
E1-6.2 Conducted Spurious Harmonic Emissions, Power Output 1 Watt

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-6.3 Conducted Spurious Emission Spectrum, 200 MHz Span, Power 11 Watts, 406.1125 MHz

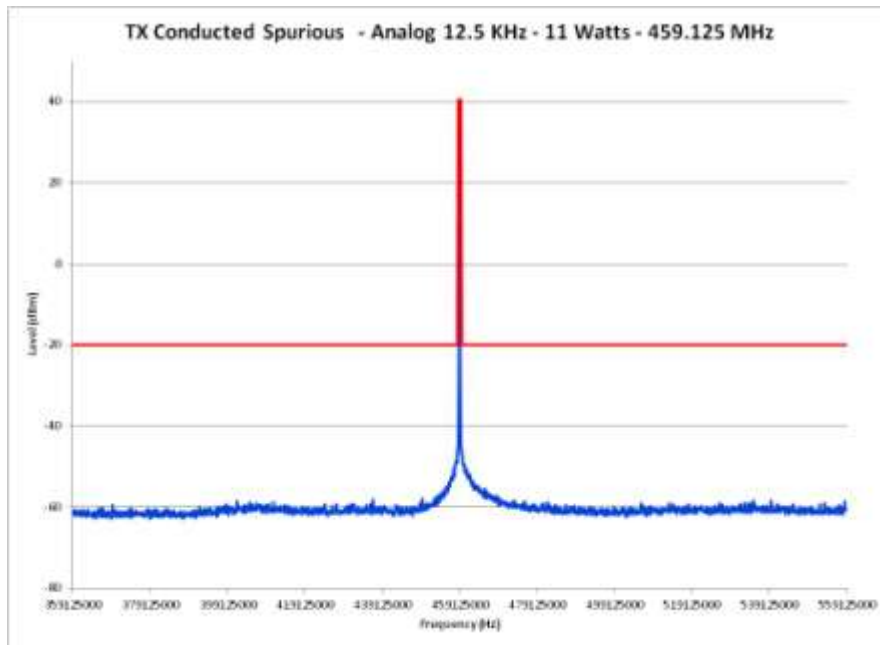


E1-6.4 Conducted Spurious Emission Spectrum, 200 MHz Span, Power 11 Watts, 450.6500 MHz

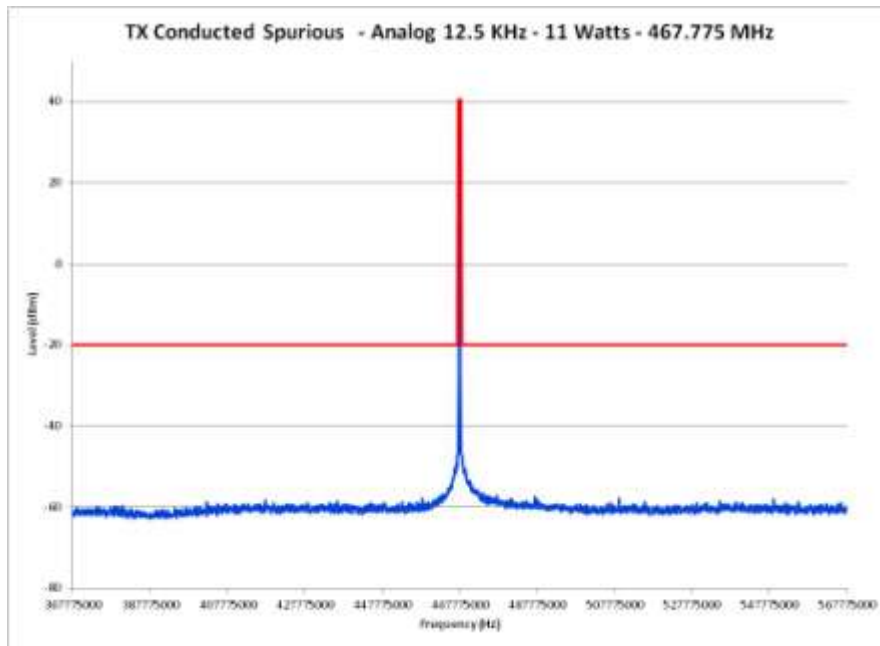


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-6.5 Conducted Spurious Emission Spectrum, 200 MHz Span, Power 11 Watts, 459.1250 MHz

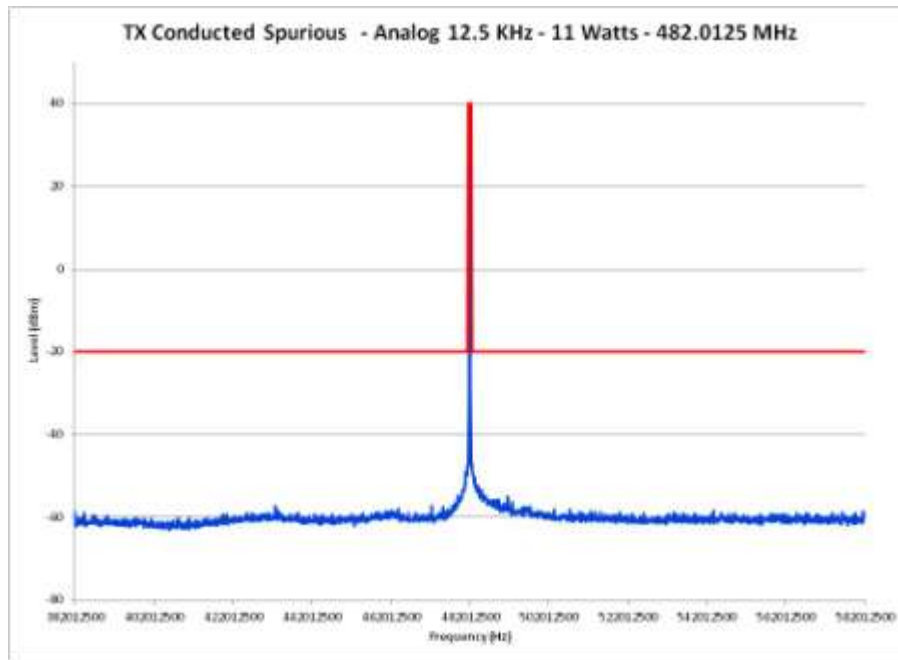


E1-6.6 Conducted Spurious Emission Spectrum, 200 MHz Span, Power 11 Watts, 467.7750 MHz

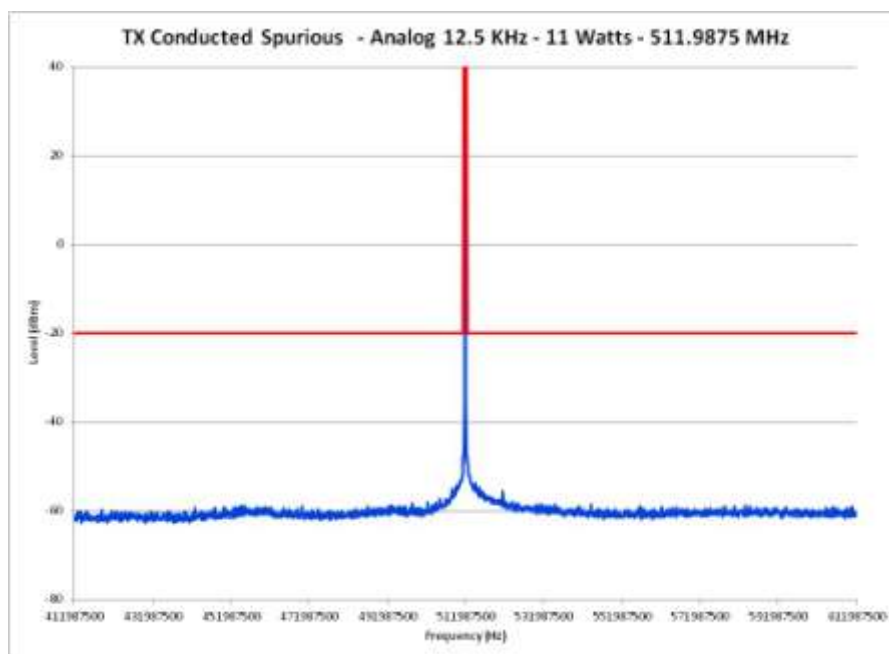


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-6.7 Conducted Spurious Emission Spectrum, 200 MHz Span, Power 11 Watts, 482.0125 MHz

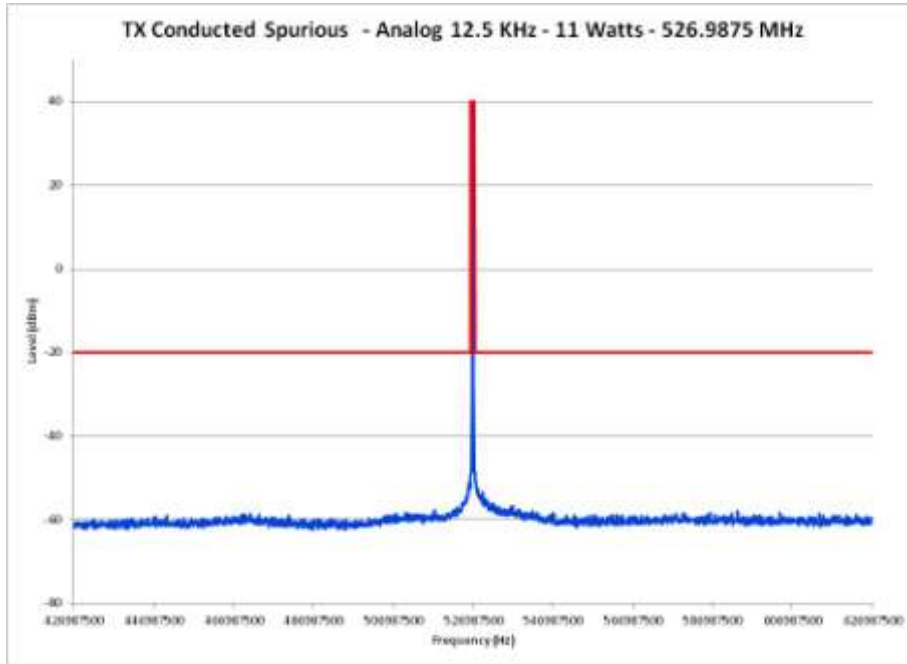


E1-6.8 Conducted Spurious Emission Spectrum, 200 MHz Span, Power 11 Watts, 511.9875 MHz



Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-6.9 Conducted Spurious Emission Spectrum, 200 MHz Span, Power 11 Watts, 526.9875 MHz



Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-7 Radiated Spurious Emissions, Harmonics

Specification Requirement 47 CFR §90.210(b) and IC RSS-119 section 5.8.1 - Emission Limits – “B-Mask”:

For transmitters equipped with an audio low pass filter and designed to operate with a 25 kHz channel spacing (authorized bandwidth 20 kHz), the power of any emission must be below the unmodulated carrier power (P) as follows:

On any frequency removed from the assigned frequency by a displacement frequency (Fd in kHz) of: c) >50 kHz *at least 43+10 * Log10 (P) dB.*

Specification Requirement 47 CFR §90.210(d) and IC RSS-119 section 5.8.3 - Emission Limits – “D-Mask”:

Emission *Mask D*: For transmitters designed to operate with a 12.5 kHz channel bandwidth, any emission must be attenuated below the power (P) of the highest emission contained within the authorized bandwidth as follows:

(3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fa in kHz) of more than 12.5 kHz:

At least 50 plus 10 log10(P) dB or 70 dB, whichever is the lesser attenuation.

Carrier Frequencies: Carrier frequencies of 406.1125, 450.65, 459.125, 467.775, 482.0125, 511.9875, 526.9875 MHz were measured for radiated carrier harmonics at the high and low rated power. These frequencies are representative of the full 406.1-527 MHz operating band.

:

| EXHIBIT | DESCRIPTION |
|---------|--|
| E1-7.1 | Radiated Spurious Harmonic Emissions, Power Output 1 Watt, 406.1125MHz |
| E1-7.2 | Radiated Spurious Harmonic Emissions, Power Output 11 Watts, 406.1125MHz |
| E1-7.3 | Radiated Spurious Harmonic Emissions, Power Output 1 Watt, 450.6500MHz |
| E1-7.4 | Radiated Spurious Harmonic Emissions, Power Output 11 Watts, 450.6500MHz |
| E1-7.5 | Radiated Spurious Harmonic Emissions, Power Output 1 Watt, 459.1250MHz |
| E1-7.6 | Radiated Spurious Harmonic Emissions, Power Output 11 Watts, |

**Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC
47 CFR 90 and IC RSS-119.**

| | |
|---------|---|
| | 459.1250MHz |
| E1-7.7 | Radiated Spurious Harmonic Emissions, Power Output 1 Watt, 467.7750MHz |
| E1-7.8 | Radiated Spurious Harmonic Emissions, Power Output 11 Watts, 467.7750MHz |
| E1-7.9 | Radiated Spurious Harmonic Emissions, Power Output 1 Watt, 482.0125MHz |
| E1-7.10 | Radiated Spurious Harmonic Emissions, Power Output 11 Watts, 482.0125MHz |
| E1-7.11 | Radiated Spurious Harmonic Emissions, Power Output 1 Watt, 511.9875MHz |
| E1-7.12 | Radiated Spurious Harmonic Emissions, Power Output 11 Watts, 511.9875MHz |
| E1-7.13 | Radiated Spurious Harmonic Emissions, Power Output 1 Watt, 526.9875MHz |
| E1-7.14 | Radiated Spurious Harmonic Emissions, Power Output 11 Watts, 526.9875MHz |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-7.1 Radiated Spurious Harmonic Emissions, Power Output 1 Watt, 406.1125MHz

| Test Details | |
|------------------|-----------------------------------|
| Manufacturer | Motorola Solutions Inc. |
| EUT | UHF 10W Repeater |
| Model No. | SLR1000 |
| Serial No. | 521IVE000Z |
| Mode | Transmit |
| Frequency Tested | 406.1125MHz |
| Notes | 1W Power |
| Date Tested | April 13, 2023 and April 14, 2023 |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | Calculated Sig. Gen. Reading (dBm) | Equivalent Antenna Gain (dB) | Cable Loss (dB) | ERP (dBm) | Attenuation Below Output Power (dB) | Minimum Attenuation (dB) |
|-----------|---------|----------------------|---------|------------------------------------|------------------------------|-----------------|-----------|-------------------------------------|--------------------------|
| 812.23 | H | 5.2 | Ambient | -65.2 | 0.0 | 1.5 | -66.8 | 96.8 | 50.0 |
| 812.23 | V | 4.9 | Ambient | -62.9 | 0.0 | 1.5 | -64.5 | 94.5 | 50.0 |
| 1218.34 | H | 14.9 | Ambient | -50.5 | 0.2 | 1.9 | -52.2 | 82.2 | 50.0 |
| 1218.34 | V | 14.2 | Ambient | -50.2 | 0.2 | 1.9 | -51.9 | 81.9 | 50.0 |
| 1624.45 | H | 15.4 | Ambient | -52.1 | 4.3 | 2.2 | -50.0 | 80.0 | 50.0 |
| 1624.45 | V | 15.1 | Ambient | -51.6 | 4.3 | 2.2 | -49.5 | 79.5 | 50.0 |
| 2030.56 | H | 15.7 | Ambient | -47.7 | 3.5 | 2.5 | -46.7 | 76.7 | 50.0 |
| 2030.56 | V | 15.5 | Ambient | -45.9 | 3.5 | 2.5 | -44.9 | 74.9 | 50.0 |
| 2436.68 | H | 15.9 | Ambient | -46.0 | 3.1 | 2.8 | -45.7 | 75.7 | 50.0 |
| 2436.68 | V | 16.6 | Ambient | -45.1 | 3.1 | 2.8 | -44.8 | 74.8 | 50.0 |
| 2842.79 | H | 16.8 | Ambient | -44.6 | 4.3 | 3.0 | -43.3 | 73.3 | 50.0 |
| 2842.79 | V | 17.0 | Ambient | -44.1 | 4.3 | 3.0 | -42.9 | 72.9 | 50.0 |
| 3248.90 | H | 17.3 | Ambient | -43.6 | 5.2 | 3.2 | -41.6 | 71.6 | 50.0 |
| 3248.90 | V | 17.0 | Ambient | -43.8 | 5.2 | 3.2 | -41.8 | 71.8 | 50.0 |
| 3655.01 | H | 17.0 | Ambient | -45.2 | 6.1 | 3.4 | -42.5 | 72.5 | 50.0 |
| 3655.01 | V | 17.8 | Ambient | -42.8 | 6.1 | 3.4 | -40.1 | 70.1 | 50.0 |
| 4061.13 | H | 17.4 | Ambient | -42.8 | 6.7 | 3.6 | -39.8 | 69.8 | 50.0 |
| 4061.13 | V | 17.8 | Ambient | -42.3 | 6.7 | 3.6 | -39.3 | 69.3 | 50.0 |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-7.2 Radiated Spurious Harmonic Emissions, Power Output 11 Watts, 406.1125MHz

| Test Details | |
|------------------|-----------------------------------|
| Manufacturer | Motorola Solutions Inc. |
| EUT | UHF 10W Repeater |
| Model No. | SLR1000 |
| Serial No. | 521IVE000Z |
| Mode | Transmit |
| Frequency Tested | 406.1125MHz |
| Notes | 11W Power |
| Date Tested | April 13, 2023 and April 14, 2023 |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | Calculated Sig. Gen. Reading (dBm) | Equivalent Antenna Gain (dB) | Cable Loss (dB) | ERP (dBm) | Attenuation Below Output Power (dB) | Minimum Attenuation (dB) |
|-----------|---------|----------------------|---------|------------------------------------|------------------------------|-----------------|-----------|-------------------------------------|--------------------------|
| 812.23 | H | 4.9 | Ambient | -65.5 | 0.0 | 1.5 | -67.1 | 107.5 | 60.4 |
| 812.23 | V | 4.9 | Ambient | -62.9 | 0.0 | 1.5 | -64.5 | 104.9 | 60.4 |
| 1218.34 | H | 14.6 | Ambient | -50.8 | 0.2 | 1.9 | -52.5 | 92.9 | 60.4 |
| 1218.34 | V | 14.3 | Ambient | -50.1 | 0.2 | 1.9 | -51.8 | 92.3 | 60.4 |
| 1624.45 | H | 15.5 | Ambient | -52.0 | 4.3 | 2.2 | -49.9 | 90.3 | 60.4 |
| 1624.45 | V | 15.4 | Ambient | -51.3 | 4.3 | 2.2 | -49.2 | 89.6 | 60.4 |
| 2030.56 | H | 15.8 | Ambient | -47.6 | 3.5 | 2.5 | -46.6 | 87.0 | 60.4 |
| 2030.56 | V | 16.2 | Ambient | -45.2 | 3.5 | 2.5 | -44.2 | 84.6 | 60.4 |
| 2436.68 | H | 17.4 | Ambient | -44.5 | 3.1 | 2.8 | -44.2 | 84.6 | 60.4 |
| 2436.68 | V | 16.1 | Ambient | -45.6 | 3.1 | 2.8 | -45.3 | 85.7 | 60.4 |
| 2842.79 | H | 16.7 | Ambient | -44.7 | 4.3 | 3.0 | -43.4 | 83.8 | 60.4 |
| 2842.79 | V | 16.4 | Ambient | -44.7 | 4.3 | 3.0 | -43.5 | 83.9 | 60.4 |
| 3248.90 | H | 17.2 | Ambient | -43.7 | 5.2 | 3.2 | -41.7 | 82.1 | 60.4 |
| 3248.90 | V | 16.8 | Ambient | -44.0 | 5.2 | 3.2 | -42.0 | 82.4 | 60.4 |
| 3655.01 | H | 16.6 | Ambient | -45.6 | 6.1 | 3.4 | -42.9 | 83.3 | 60.4 |
| 3655.01 | V | 17.7 | Ambient | -42.9 | 6.1 | 3.4 | -40.2 | 80.6 | 60.4 |
| 4061.13 | H | 17.2 | Ambient | -43.0 | 6.7 | 3.6 | -40.0 | 80.4 | 60.4 |
| 4061.13 | V | 17.5 | Ambient | -42.6 | 6.7 | 3.6 | -39.6 | 80.0 | 60.4 |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-7.3 Radiated Spurious Harmonic Emissions, Power Output 1 Watt, 450.6500MHz

| Test Details | |
|------------------|-----------------------------------|
| Manufacturer | Motorola Solutions Inc. |
| EUT | UHF 10W Repeater |
| Model No. | SLR1000 |
| Serial No. | 521IVE000Z |
| Mode | Transmit |
| Frequency Tested | 450.65MHz |
| Notes | 1W |
| Date Tested | April 13, 2023 and April 14, 2023 |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | Calculated Sig. Gen. Reading (dBm) | Equivalent Antenna Gain (dB) | Cable Loss (dB) | ERP (dBm) | Attenuation Below Output Power (dB) | Minimum Attenuation (dB) |
|-----------|---------|----------------------|---------|------------------------------------|------------------------------|-----------------|-----------|-------------------------------------|--------------------------|
| 901.30 | H | 5.4 | Ambient | -64.3 | 0.0 | 1.6 | -65.9 | 95.9 | 50.0 |
| 901.30 | V | 4.8 | Ambient | -62.2 | 0.0 | 1.6 | -63.8 | 93.8 | 50.0 |
| 1351.95 | H | 14.5 | Ambient | -50.8 | 1.2 | 2.0 | -51.6 | 81.6 | 50.0 |
| 1351.95 | V | 14.5 | Ambient | -50.8 | 1.2 | 2.0 | -51.6 | 81.6 | 50.0 |
| 1802.60 | H | 16.2 | Ambient | -48.5 | 3.9 | 2.3 | -47.0 | 77.0 | 50.0 |
| 1802.60 | V | 15.9 | Ambient | -46.7 | 3.9 | 2.3 | -45.1 | 75.1 | 50.0 |
| 2253.25 | H | 15.8 | Ambient | -46.6 | 3.4 | 2.6 | -45.9 | 75.9 | 50.0 |
| 2253.25 | V | 16.4 | Ambient | -45.7 | 3.4 | 2.6 | -45.0 | 75.0 | 50.0 |
| 2703.90 | H | 16.9 | Ambient | -44.5 | 3.6 | 2.9 | -43.9 | 73.9 | 50.0 |
| 2703.90 | V | 16.4 | Ambient | -44.8 | 3.6 | 2.9 | -44.2 | 74.2 | 50.0 |
| 3154.55 | H | 17.0 | Ambient | -44.0 | 5.0 | 3.2 | -42.2 | 72.2 | 50.0 |
| 3154.55 | V | 17.1 | Ambient | -43.6 | 5.0 | 3.2 | -41.8 | 71.8 | 50.0 |
| 3605.20 | H | 17.2 | Ambient | -44.3 | 6.0 | 3.4 | -41.7 | 71.7 | 50.0 |
| 3605.20 | V | 16.8 | Ambient | -43.7 | 6.0 | 3.4 | -41.1 | 71.1 | 50.0 |
| 4055.85 | H | 17.6 | Ambient | -42.6 | 6.7 | 3.6 | -39.6 | 69.6 | 50.0 |
| 4055.85 | V | 17.8 | Ambient | -42.4 | 6.7 | 3.6 | -39.3 | 69.3 | 50.0 |
| 4506.50 | H | 18.3 | Ambient | -41.3 | 6.9 | 3.8 | -38.1 | 68.1 | 50.0 |
| 4506.50 | V | 18.3 | Ambient | -41.4 | 6.9 | 3.8 | -38.2 | 68.2 | 50.0 |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-7.4 Radiated Spurious Harmonic Emissions, Power Output 11 Watts, 450.6500MHz

| Test Details | |
|------------------|-----------------------------------|
| Manufacturer | Motorola Solutions Inc. |
| EUT | UHF 10W Repeater |
| Model No. | SLR1000 |
| Serial No. | 521IVE000Z |
| Mode | Transmit |
| Frequency Tested | 450.65MHz |
| Notes | 11W |
| Date Tested | April 13, 2023 and April 14, 2023 |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | Calculated Sig. Gen. Reading (dBm) | Equivalent Antenna Gain (dB) | Cable Loss (dB) | ERP (dBm) | Attenuation Below Output Power (dB) | Minimum Attenuation (dB) |
|-----------|---------|----------------------|---------|------------------------------------|------------------------------|-----------------|-----------|-------------------------------------|--------------------------|
| 901.30 | H | 5.2 | Ambient | -64.5 | 0.0 | 1.6 | -66.1 | 106.5 | 60.4 |
| 901.30 | V | 5.4 | Ambient | -61.6 | 0.0 | 1.6 | -63.2 | 103.6 | 60.4 |
| 1351.95 | H | 14.8 | Ambient | -50.5 | 1.2 | 2.0 | -51.3 | 91.7 | 60.4 |
| 1351.95 | V | 14.9 | Ambient | -50.4 | 1.2 | 2.0 | -51.2 | 91.6 | 60.4 |
| 1802.60 | H | 16.0 | Ambient | -48.7 | 3.9 | 2.3 | -47.2 | 87.6 | 60.4 |
| 1802.60 | V | 15.9 | Ambient | -46.7 | 3.9 | 2.3 | -45.1 | 85.6 | 60.4 |
| 2253.25 | H | 16.2 | Ambient | -46.2 | 3.4 | 2.6 | -45.5 | 85.9 | 60.4 |
| 2253.25 | V | 16.1 | Ambient | -46.0 | 3.4 | 2.6 | -45.3 | 85.7 | 60.4 |
| 2703.90 | H | 17.1 | Ambient | -44.3 | 3.6 | 2.9 | -43.7 | 84.1 | 60.4 |
| 2703.90 | V | 16.5 | Ambient | -44.7 | 3.6 | 2.9 | -44.1 | 84.5 | 60.4 |
| 3154.55 | H | 17.2 | Ambient | -43.8 | 5.0 | 3.2 | -42.0 | 82.4 | 60.4 |
| 3154.55 | V | 17.8 | Ambient | -42.9 | 5.0 | 3.2 | -41.1 | 81.6 | 60.4 |
| 3605.20 | H | 17.1 | Ambient | -44.4 | 6.0 | 3.4 | -41.8 | 82.2 | 60.4 |
| 3605.20 | V | 17.6 | Ambient | -42.9 | 6.0 | 3.4 | -40.3 | 80.7 | 60.4 |
| 4055.85 | H | 17.8 | Ambient | -42.4 | 6.7 | 3.6 | -39.4 | 79.8 | 60.4 |
| 4055.85 | V | 17.9 | Ambient | -42.3 | 6.7 | 3.6 | -39.2 | 79.6 | 60.4 |
| 4506.50 | H | 18.4 | Ambient | -41.2 | 6.9 | 3.8 | -38.0 | 78.4 | 60.4 |
| 4506.50 | V | 17.8 | Ambient | -41.9 | 6.9 | 3.8 | -38.7 | 79.1 | 60.4 |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-7.5 Radiated Spurious Harmonic Emissions, Power Output 1 Watt, 459.1250MHz

| Test Details | |
|------------------|-----------------------------------|
| Manufacturer | Motorola Solutions Inc. |
| EUT | UHF 10W Repeater |
| Model No. | SLR1000 |
| Serial No. | 521IVE000Z |
| Mode | Transmit |
| Frequency Tested | 459.125MHz |
| Notes | 1W |
| Date Tested | April 13, 2023 and April 14, 2023 |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | Calculated Sig. Gen. Reading (dBm) | Equivalent Antenna Gain (dB) | Cable Loss (dB) | ERP (dBm) | Attenuation Below Output Power (dB) | Minimum Attenuation (dB) |
|-----------|---------|----------------------|---------|------------------------------------|------------------------------|-----------------|-----------|-------------------------------------|--------------------------|
| 918.25 | H | 5.4 | Ambient | -64.0 | 0.0 | 1.6 | -65.7 | 95.7 | 50.0 |
| 918.25 | V | 5.4 | Ambient | -61.4 | 0.0 | 1.6 | -63.0 | 93.0 | 50.0 |
| 1377.38 | H | 15.1 | Ambient | -50.2 | 1.6 | 2.1 | -50.7 | 80.7 | 50.0 |
| 1377.38 | V | 14.8 | Ambient | -50.7 | 1.6 | 2.1 | -51.2 | 81.2 | 50.0 |
| 1836.50 | H | 15.6 | Ambient | -48.9 | 3.8 | 2.4 | -47.5 | 77.5 | 50.0 |
| 1836.50 | V | 15.5 | Ambient | -46.8 | 3.8 | 2.4 | -45.4 | 75.4 | 50.0 |
| 2295.63 | H | 15.7 | Ambient | -46.6 | 3.3 | 2.7 | -45.9 | 75.9 | 50.0 |
| 2295.63 | V | 16.1 | Ambient | -45.9 | 3.3 | 2.7 | -45.2 | 75.2 | 50.0 |
| 2754.75 | H | 16.7 | Ambient | -44.7 | 3.9 | 3.0 | -43.8 | 73.8 | 50.0 |
| 2754.75 | V | 17.2 | Ambient | -43.9 | 3.9 | 3.0 | -43.0 | 73.0 | 50.0 |
| 3213.88 | H | 17.0 | Ambient | -43.8 | 5.1 | 3.2 | -41.9 | 71.9 | 50.0 |
| 3213.88 | V | 17.4 | Ambient | -43.2 | 5.1 | 3.2 | -41.3 | 71.3 | 50.0 |
| 3673.00 | H | 17.1 | Ambient | -45.3 | 6.1 | 3.4 | -42.6 | 72.6 | 50.0 |
| 3673.00 | V | 17.2 | Ambient | -43.4 | 6.1 | 3.4 | -40.7 | 70.7 | 50.0 |
| 4132.13 | H | 17.5 | Ambient | -42.7 | 6.8 | 3.6 | -39.5 | 69.5 | 50.0 |
| 4132.13 | V | 17.9 | Ambient | -42.2 | 6.8 | 3.6 | -39.0 | 69.0 | 50.0 |
| 4591.25 | H | 18.5 | Ambient | -40.9 | 6.8 | 3.8 | -37.9 | 67.9 | 50.0 |
| 4591.25 | V | 17.7 | Ambient | -41.7 | 6.8 | 3.8 | -38.7 | 68.7 | 50.0 |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-7.6 Radiated Spurious Harmonic Emissions, Power Output 11 Watts, 459.1250MHz

| Test Details | |
|------------------|-----------------------------------|
| Manufacturer | Motorola Solutions Inc. |
| EUT | UHF 10W Repeater |
| Model No. | SLR1000 |
| Serial No. | 521IVE000Z |
| Mode | Transmit |
| Frequency Tested | 459.125MHz |
| Notes | 11W |
| Date Tested | April 13, 2023 and April 24, 2023 |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | Calculated Sig. Gen. Reading (dBm) | Equivalent Antenna Gain (dB) | Cable Loss (dB) | ERP (dBm) | Attenuation Below Output Power (dB) | Minimum Attenuation (dB) |
|-----------|---------|----------------------|---------|------------------------------------|------------------------------|-----------------|-----------|-------------------------------------|--------------------------|
| 918.25 | H | 5.2 | Ambient | -64.2 | 0.0 | 1.6 | -65.9 | 106.3 | 60.4 |
| 918.25 | V | 5.2 | Ambient | -61.6 | 0.0 | 1.6 | -63.2 | 103.6 | 60.4 |
| 1377.38 | H | 14.6 | Ambient | -50.7 | 1.6 | 2.1 | -51.2 | 91.6 | 60.4 |
| 1377.38 | V | 14.6 | Ambient | -50.9 | 1.6 | 2.1 | -51.4 | 91.8 | 60.4 |
| 1836.50 | H | 16.7 | Ambient | -47.8 | 3.8 | 2.4 | -46.4 | 86.8 | 60.4 |
| 1836.50 | V | 16.0 | Ambient | -46.3 | 3.8 | 2.4 | -44.9 | 85.3 | 60.4 |
| 2295.63 | H | 16.0 | Ambient | -46.3 | 3.3 | 2.7 | -45.6 | 86.1 | 60.4 |
| 2295.63 | V | 16.6 | Ambient | -45.4 | 3.3 | 2.7 | -44.7 | 85.2 | 60.4 |
| 2754.75 | H | 16.4 | Ambient | -45.0 | 3.9 | 3.0 | -44.1 | 84.5 | 60.4 |
| 2754.75 | V | 16.5 | Ambient | -44.6 | 3.9 | 3.0 | -43.7 | 84.1 | 60.4 |
| 3213.88 | H | 17.4 | Ambient | -43.4 | 5.1 | 3.2 | -41.5 | 81.9 | 60.4 |
| 3213.88 | V | 17.5 | Ambient | -43.1 | 5.1 | 3.2 | -41.2 | 81.6 | 60.4 |
| 3673.00 | H | 17.5 | Ambient | -44.9 | 6.1 | 3.4 | -42.2 | 82.6 | 60.4 |
| 3673.00 | V | 17.4 | Ambient | -43.2 | 6.1 | 3.4 | -40.5 | 80.9 | 60.4 |
| 4132.13 | H | 17.4 | Ambient | -42.8 | 6.8 | 3.6 | -39.6 | 80.0 | 60.4 |
| 4132.13 | V | 17.3 | Ambient | -42.8 | 6.8 | 3.6 | -39.6 | 80.0 | 60.4 |
| 4591.25 | H | 18.6 | Ambient | -40.8 | 6.8 | 3.8 | -37.8 | 78.2 | 60.4 |
| 4591.25 | V | 18.3 | Ambient | -41.1 | 6.8 | 3.8 | -38.1 | 78.5 | 60.4 |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-7.7 Radiated Spurious Harmonic Emissions, Power Output 1 Watt, 467.7750MHz

| Test Details | |
|------------------|-------------------------|
| Manufacturer | Motorola Solutions Inc. |
| EUT | UHF 10W Repeater |
| Model No. | SLR1000 |
| Serial No. | 521IVE000Z |
| Mode | Transmit |
| Frequency Tested | 467.775MHz |
| Notes | 1W |
| Date Tested | April 14, 2023 |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | Calculated Sig. Gen. Reading (dBm) | Equivalent Antenna Gain (dB) | Cable Loss (dB) | ERP (dBm) | Attenuation Below Output Power (dB) | Minimum Attenuation (dB) |
|-----------|---------|----------------------|---------|------------------------------------|------------------------------|-----------------|-----------|-------------------------------------|--------------------------|
| 935.55 | H | 5.8 | Ambient | -63.0 | 0.0 | 1.7 | -64.7 | 94.7 | 50.0 |
| 935.55 | V | 5.1 | Ambient | -61.5 | 0.0 | 1.7 | -63.2 | 93.2 | 50.0 |
| 1403.33 | H | 15.0 | Ambient | -50.3 | 1.9 | 2.1 | -50.5 | 80.5 | 50.0 |
| 1403.33 | V | 15.1 | Ambient | -50.5 | 1.9 | 2.1 | -50.7 | 80.7 | 50.0 |
| 1871.10 | H | 20.4 | Ambient | -43.9 | 3.7 | 2.4 | -42.6 | 72.6 | 50.0 |
| 1871.10 | V | 15.7 | Ambient | -46.4 | 3.7 | 2.4 | -45.1 | 75.1 | 50.0 |
| 2338.88 | H | 16.6 | Ambient | -45.6 | 3.2 | 2.7 | -45.0 | 75.0 | 50.0 |
| 2338.88 | V | 16.3 | Ambient | -45.6 | 3.2 | 2.7 | -45.0 | 75.0 | 50.0 |
| 2806.65 | H | 16.3 | Ambient | -45.0 | 4.2 | 3.0 | -43.9 | 73.9 | 50.0 |
| 2806.65 | V | 16.6 | Ambient | -44.4 | 4.2 | 3.0 | -43.3 | 73.3 | 50.0 |
| 3274.43 | H | 17.3 | Ambient | -43.7 | 5.3 | 3.3 | -41.6 | 71.6 | 50.0 |
| 3274.43 | V | 17.1 | Ambient | -43.8 | 5.3 | 3.3 | -41.8 | 71.8 | 50.0 |
| 3742.20 | H | 16.7 | Ambient | -46.6 | 6.2 | 3.5 | -43.9 | 73.9 | 50.0 |
| 3742.20 | V | 17.2 | Ambient | -43.5 | 6.2 | 3.5 | -40.7 | 70.7 | 50.0 |
| 4209.98 | H | 17.3 | Ambient | -42.8 | 6.9 | 3.7 | -39.5 | 69.5 | 50.0 |
| 4209.98 | V | 17.4 | Ambient | -42.6 | 6.9 | 3.7 | -39.3 | 69.3 | 50.0 |
| 4677.75 | H | 18.3 | Ambient | -40.9 | 6.8 | 3.8 | -38.0 | 68.0 | 50.0 |
| 4677.75 | V | 17.9 | Ambient | -41.2 | 6.8 | 3.8 | -38.3 | 68.3 | 50.0 |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-7.8 Radiated Spurious Harmonic Emissions, Power Output 11 Watts, 467.7750MHz

| Test Details | |
|------------------|-----------------------------------|
| Manufacturer | Motorola Solutions Inc. |
| EUT | UHF 10W Repeater |
| Model No. | SLR1000 |
| Serial No. | 521IVE000Z |
| Mode | Transmit |
| Frequency Tested | 467.775MHz |
| Notes | 11W |
| Date Tested | April 13, 2023 and April 14, 2023 |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | Calculated Sig. Gen. Reading (dBm) | Equivalent Antenna Gain (dB) | Cable Loss (dB) | ERP (dBm) | Attenuation Below Output Power (dB) | Minimum Attenuation (dB) |
|-----------|---------|----------------------|---------|------------------------------------|------------------------------|-----------------|-----------|-------------------------------------|--------------------------|
| 935.55 | H | 5.7 | Ambient | -63.1 | 0.0 | 1.7 | -64.8 | 105.2 | 60.4 |
| 935.55 | V | 5.8 | Ambient | -60.8 | 0.0 | 1.7 | -62.5 | 102.9 | 60.4 |
| 1403.33 | H | 15.1 | Ambient | -50.2 | 1.9 | 2.1 | -50.4 | 90.8 | 60.4 |
| 1403.33 | V | 15.0 | Ambient | -50.6 | 1.9 | 2.1 | -50.8 | 91.2 | 60.4 |
| 1871.10 | H | 15.4 | Ambient | -48.9 | 3.7 | 2.4 | -47.6 | 88.0 | 60.4 |
| 1871.10 | V | 15.9 | Ambient | -46.2 | 3.7 | 2.4 | -44.9 | 85.3 | 60.4 |
| 2338.88 | H | 16.4 | Ambient | -45.8 | 3.2 | 2.7 | -45.2 | 85.7 | 60.4 |
| 2338.88 | V | 16.1 | Ambient | -45.8 | 3.2 | 2.7 | -45.2 | 85.7 | 60.4 |
| 2806.65 | H | 16.9 | Ambient | -44.4 | 4.2 | 3.0 | -43.3 | 83.7 | 60.4 |
| 2806.65 | V | 17.0 | Ambient | -44.0 | 4.2 | 3.0 | -42.9 | 83.3 | 60.4 |
| 3274.43 | H | 17.7 | Ambient | -43.3 | 5.3 | 3.3 | -41.2 | 81.7 | 60.4 |
| 3274.43 | V | 17.0 | Ambient | -43.9 | 5.3 | 3.3 | -41.9 | 82.3 | 60.4 |
| 3742.20 | H | 17.1 | Ambient | -46.2 | 6.2 | 3.5 | -43.5 | 83.9 | 60.4 |
| 3742.20 | V | 17.1 | Ambient | -43.6 | 6.2 | 3.5 | -40.8 | 81.2 | 60.4 |
| 4209.98 | H | 18.1 | Ambient | -42.0 | 6.9 | 3.7 | -38.7 | 79.1 | 60.4 |
| 4209.98 | V | 17.5 | Ambient | -42.5 | 6.9 | 3.7 | -39.2 | 79.7 | 60.4 |
| 4677.75 | H | 18.7 | Ambient | -40.5 | 6.8 | 3.8 | -37.6 | 78.0 | 60.4 |
| 4677.75 | V | 18.0 | Ambient | -41.1 | 6.8 | 3.8 | -38.2 | 78.6 | 60.4 |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-7.9 Radiated Spurious Harmonic Emissions, Power Output 1 Watt, 482.0125MHz

| Test Details | |
|------------------|-------------------------|
| Manufacturer | Motorola Solutions Inc. |
| EUT | UHF 10W Repeater |
| Model No. | SLR1000 |
| Serial No. | 521IVE000Z |
| Mode | Transmit |
| Frequency Tested | 482.0125MHz |
| Notes | 1W |
| Date Tested | April 14, 2023 |

| Freq. MHz | Ant Pol | Meter Reading (dBUV) | Ambient | Calculated Sig. Gen. Reading (dBm) | Equivalent Antenna Gain (dB) | Cable Loss (dB) | ERP (dBm) | Attenuation Below Output Power (dB) | Minimum Attenuation (dB) |
|-----------|---------|----------------------|---------|------------------------------------|------------------------------|-----------------|-----------|-------------------------------------|--------------------------|
| 964.03 | H | 5.3 | Ambient | -62.6 | 0.0 | 1.7 | -64.3 | 94.3 | 50.0 |
| 964.03 | V | 5.1 | Ambient | -61.3 | 0.0 | 1.7 | -63.0 | 93.0 | 50.0 |
| 1446.04 | H | 15.1 | Ambient | -50.8 | 2.6 | 2.1 | -50.3 | 80.3 | 50.0 |
| 1446.04 | V | 14.9 | Ambient | -51.1 | 2.6 | 2.1 | -50.6 | 80.6 | 50.0 |
| 1928.05 | H | 15.5 | Ambient | -48.5 | 3.5 | 2.4 | -47.4 | 77.4 | 50.0 |
| 1928.05 | V | 16.0 | Ambient | -45.7 | 3.5 | 2.4 | -44.6 | 74.6 | 50.0 |
| 2410.06 | H | 19.3 | Ambient | -42.7 | 3.1 | 2.8 | -42.3 | 72.3 | 50.0 |
| 2410.06 | V | 19.1 | Ambient | -42.6 | 3.1 | 2.8 | -42.2 | 72.2 | 50.0 |
| 2892.08 | H | 17.0 | Ambient | -44.5 | 4.5 | 3.0 | -43.1 | 73.1 | 50.0 |
| 2892.08 | V | 16.7 | Ambient | -44.6 | 4.5 | 3.0 | -43.1 | 73.1 | 50.0 |
| 3374.09 | H | 17.0 | Ambient | -44.2 | 5.6 | 3.3 | -42.0 | 72.0 | 50.0 |
| 3374.09 | V | 17.3 | Ambient | -44.2 | 5.6 | 3.3 | -41.9 | 71.9 | 50.0 |
| 3856.10 | H | 17.2 | Ambient | -45.8 | 6.4 | 3.5 | -42.9 | 72.9 | 50.0 |
| 3856.10 | V | 17.2 | Ambient | -43.4 | 6.4 | 3.5 | -40.5 | 70.5 | 50.0 |
| 4338.11 | H | 17.6 | Ambient | -42.3 | 7.0 | 3.7 | -39.0 | 69.0 | 50.0 |
| 4338.11 | V | 17.2 | Ambient | -42.7 | 7.0 | 3.7 | -39.4 | 69.4 | 50.0 |
| 4820.13 | H | 18.4 | Ambient | -40.5 | 7.0 | 3.9 | -37.4 | 67.4 | 50.0 |
| 4820.13 | V | 18.3 | Ambient | -40.4 | 7.0 | 3.9 | -37.3 | 67.3 | 50.0 |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-7.10 Radiated Spurious Harmonic Emissions, Power Output 11 Watts, 482.0125MHz

| Test Details | |
|------------------|-----------------------------------|
| Manufacturer | Motorola Solutions Inc. |
| EUT | UHF 10W Repeater |
| Model No. | SLR1000 |
| Serial No. | 521IVE000Z |
| Mode | Transmit |
| Frequency Tested | 482.0125MHz |
| Notes | 11W |
| Date Tested | April 13, 2023 and April 14, 2023 |

| Freq. MHz | Ant Pol | Meter Reading (dBUV) | Ambient | Calculated Sig. Gen. Reading (dBm) | Equivalent Antenna Gain (dB) | Cable Loss (dB) | ERP (dBm) | Attenuation Below Output Power (dB) | Minimum Attenuation (dB) |
|-----------|---------|----------------------|---------|------------------------------------|------------------------------|-----------------|-----------|-------------------------------------|--------------------------|
| 964.03 | H | 5.2 | Ambient | -62.7 | 0.0 | 1.7 | -64.4 | 104.8 | 60.4 |
| 964.03 | V | 6.7 | Ambient | -59.7 | 0.0 | 1.7 | -61.4 | 101.8 | 60.4 |
| 1446.04 | H | 15.3 | Ambient | -50.6 | 2.6 | 2.1 | -50.1 | 90.5 | 60.4 |
| 1446.04 | V | 14.8 | Ambient | -51.2 | 2.6 | 2.1 | -50.7 | 91.1 | 60.4 |
| 1928.05 | H | 16.6 | Ambient | -47.4 | 3.5 | 2.4 | -46.3 | 86.7 | 60.4 |
| 1928.05 | V | 15.8 | Ambient | -45.9 | 3.5 | 2.4 | -44.8 | 85.2 | 60.4 |
| 2410.06 | H | 16.5 | Ambient | -45.5 | 3.1 | 2.8 | -45.1 | 85.6 | 60.4 |
| 2410.06 | V | 16.5 | Ambient | -45.2 | 3.1 | 2.8 | -44.8 | 85.3 | 60.4 |
| 2892.08 | H | 17.3 | Ambient | -44.2 | 4.5 | 3.0 | -42.8 | 83.2 | 60.4 |
| 2892.08 | V | 17.0 | Ambient | -44.3 | 4.5 | 3.0 | -42.8 | 83.2 | 60.4 |
| 3374.09 | H | 17.5 | Ambient | -43.7 | 5.6 | 3.3 | -41.5 | 81.9 | 60.4 |
| 3374.09 | V | 17.2 | Ambient | -44.3 | 5.6 | 3.3 | -42.0 | 82.4 | 60.4 |
| 3856.10 | H | 16.8 | Ambient | -46.2 | 6.4 | 3.5 | -43.3 | 83.7 | 60.4 |
| 3856.10 | V | 17.2 | Ambient | -43.4 | 6.4 | 3.5 | -40.5 | 81.0 | 60.4 |
| 4338.11 | H | 17.6 | Ambient | -42.3 | 7.0 | 3.7 | -39.0 | 79.4 | 60.4 |
| 4338.11 | V | 17.3 | Ambient | -42.6 | 7.0 | 3.7 | -39.3 | 79.7 | 60.4 |
| 4820.13 | H | 18.2 | Ambient | -40.7 | 7.0 | 3.9 | -37.6 | 78.0 | 60.4 |
| 4820.13 | V | 18.3 | Ambient | -40.4 | 7.0 | 3.9 | -37.3 | 77.7 | 60.4 |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-7.11 Radiated Spurious Harmonic Emissions, Power Output 1 Watt, 511.9875MHz

| Test Details | |
|------------------|-------------------------|
| Manufacturer | Motorola Solutions Inc. |
| EUT | UHF 10W Repeater |
| Model No. | SLR1000 |
| Serial No. | 521IVE000Z |
| Mode | Transmit |
| Frequency Tested | 511.9875MHz |
| Notes | 1W |
| Date Tested | April 14, 2023 |

| Freq. MHz | Ant Pol | Meter Reading (dBUV) | Ambient | Calculated Sig. Gen. Reading (dBm) | Equivalent Antenna Gain (dB) | Cable Loss (dB) | ERP (dBm) | Attenuation Below Output Power (dB) | Minimum Attenuation (dB) |
|-----------|---------|----------------------|---------|------------------------------------|------------------------------|-----------------|-----------|-------------------------------------|--------------------------|
| 1023.98 | H | 15.2 | Ambient | -51.9 | 0.5 | 1.7 | -53.2 | 83.2 | 50.0 |
| 1023.98 | V | 15.1 | Ambient | -51.7 | 0.5 | 1.7 | -53.0 | 83.0 | 50.0 |
| 1535.96 | H | 15.1 | Ambient | -52.0 | 3.8 | 2.2 | -50.4 | 80.4 | 50.0 |
| 1535.96 | V | 15.5 | Ambient | -51.3 | 3.8 | 2.2 | -49.7 | 79.7 | 50.0 |
| 2047.95 | H | 15.6 | Ambient | -47.8 | 3.5 | 2.5 | -46.7 | 76.7 | 50.0 |
| 2047.95 | V | 15.9 | Ambient | -45.6 | 3.5 | 2.5 | -44.6 | 74.6 | 50.0 |
| 2559.94 | H | 16.3 | Ambient | -45.4 | 3.1 | 2.9 | -45.1 | 75.1 | 50.0 |
| 2559.94 | V | 16.6 | Ambient | -44.9 | 3.1 | 2.9 | -44.7 | 74.7 | 50.0 |
| 3071.93 | H | 17.3 | Ambient | -44.1 | 4.8 | 3.1 | -42.4 | 72.4 | 50.0 |
| 3071.93 | V | 17.1 | Ambient | -44.1 | 4.8 | 3.1 | -42.4 | 72.4 | 50.0 |
| 3583.91 | H | 17.0 | Ambient | -44.4 | 6.0 | 3.4 | -41.8 | 71.8 | 50.0 |
| 3583.91 | V | 17.3 | Ambient | -43.3 | 6.0 | 3.4 | -40.7 | 70.7 | 50.0 |
| 4095.90 | H | 18.0 | Ambient | -42.2 | 6.7 | 3.6 | -39.1 | 69.1 | 50.0 |
| 4095.90 | V | 17.9 | Ambient | -42.2 | 6.7 | 3.6 | -39.1 | 69.1 | 50.0 |
| 4607.89 | H | 18.5 | Ambient | -40.9 | 6.8 | 3.8 | -37.9 | 67.9 | 50.0 |
| 4607.89 | V | 18.1 | Ambient | -41.2 | 6.8 | 3.8 | -38.3 | 68.3 | 50.0 |
| 5119.88 | H | 22.1 | Ambient | -36.3 | 7.8 | 4.0 | -32.5 | 62.5 | 50.0 |
| 5119.88 | V | 22.2 | Ambient | -36.0 | 7.8 | 4.0 | -32.2 | 62.2 | 50.0 |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-7.12 Radiated Spurious Harmonic Emissions, Power Output 11 Watts, 511.9875MHz

| Test Details | |
|------------------|-----------------------------------|
| Manufacturer | Motorola Solutions Inc. |
| EUT | UHF 10W Repeater |
| Model No. | SLR1000 |
| Serial No. | 521IVE000Z |
| Mode | Transmit |
| Frequency Tested | 511.9875MHz |
| Notes | 11W |
| Date Tested | April 13, 2023 and April 14, 2023 |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | Calculated Sig. Gen. Reading (dBm) | Equivalent Antenna Gain (dB) | Cable Loss (dB) | ERP (dBm) | Attenuation Below Output Power (dB) | Minimum Attenuation (dB) |
|-----------|---------|----------------------|---------|------------------------------------|------------------------------|-----------------|-----------|-------------------------------------|--------------------------|
| 1023.98 | H | 14.7 | Ambient | -52.4 | 0.5 | 1.7 | -53.7 | 94.1 | 60.4 |
| 1023.98 | V | 14.5 | Ambient | -52.3 | 0.5 | 1.7 | -53.6 | 94.0 | 60.4 |
| 1535.96 | H | 14.9 | Ambient | -52.2 | 3.8 | 2.2 | -50.6 | 91.0 | 60.4 |
| 1535.96 | V | 15.0 | Ambient | -51.8 | 3.8 | 2.2 | -50.2 | 90.6 | 60.4 |
| 2047.95 | H | 16.1 | Ambient | -47.3 | 3.5 | 2.5 | -46.2 | 86.7 | 60.4 |
| 2047.95 | V | 16.0 | Ambient | -45.5 | 3.5 | 2.5 | -44.5 | 84.9 | 60.4 |
| 2559.94 | H | 16.7 | Ambient | -45.0 | 3.1 | 2.9 | -44.7 | 85.1 | 60.4 |
| 2559.94 | V | 16.4 | Ambient | -45.1 | 3.1 | 2.9 | -44.9 | 85.3 | 60.4 |
| 3071.93 | H | 17.2 | Ambient | -44.2 | 4.8 | 3.1 | -42.5 | 82.9 | 60.4 |
| 3071.93 | V | 17.2 | Ambient | -44.0 | 4.8 | 3.1 | -42.3 | 82.7 | 60.4 |
| 3583.91 | H | 17.1 | Ambient | -44.3 | 6.0 | 3.4 | -41.7 | 82.1 | 60.4 |
| 3583.91 | V | 17.1 | Ambient | -43.5 | 6.0 | 3.4 | -40.9 | 81.3 | 60.4 |
| 4095.90 | H | 17.4 | Ambient | -42.8 | 6.7 | 3.6 | -39.7 | 80.1 | 60.4 |
| 4095.90 | V | 17.6 | Ambient | -42.5 | 6.7 | 3.6 | -39.4 | 79.8 | 60.4 |
| 4607.89 | H | 17.9 | Ambient | -41.5 | 6.8 | 3.8 | -38.5 | 78.9 | 60.4 |
| 4607.89 | V | 18.3 | Ambient | -41.0 | 6.8 | 3.8 | -38.1 | 78.5 | 60.4 |
| 5119.88 | H | 22.3 | Ambient | -36.1 | 7.8 | 4.0 | -32.3 | 72.7 | 60.4 |
| 5119.88 | V | 22.3 | Ambient | -35.9 | 7.8 | 4.0 | -32.1 | 72.6 | 60.4 |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-7.13 Radiated Spurious Harmonic Emissions, Power Output 1 Watt, 526.9875MHz

| Test Details | |
|------------------|-------------------------|
| Manufacturer | Motorola Solutions Inc. |
| EUT | UHF 10W Repeater |
| Model No. | SLR1000 |
| Serial No. | 521IVE000Z |
| Mode | Transmit |
| Frequency Tested | 526.9875MHz |
| Notes | 1W |
| Date Tested | April 14, 2023 |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | Calculated Sig. Gen. Reading (dBm) | Equivalent Antenna Gain (dB) | Cable Loss (dB) | ERP (dBm) | Attenuation Below Output Power (dB) | Minimum Attenuation (dB) |
|-----------|---------|----------------------|---------|------------------------------------|------------------------------|-----------------|-----------|-------------------------------------|--------------------------|
| 1053.98 | H | 14.5 | Ambient | -52.3 | 0.5 | 1.8 | -53.6 | 83.6 | 50.0 |
| 1053.98 | V | 14.7 | Ambient | -51.7 | 0.5 | 1.8 | -53.0 | 83.0 | 50.0 |
| 1580.96 | H | 15.2 | Ambient | -52.5 | 4.2 | 2.2 | -50.5 | 80.5 | 50.0 |
| 1580.96 | V | 14.9 | Ambient | -52.2 | 4.2 | 2.2 | -50.3 | 80.3 | 50.0 |
| 2107.95 | H | 16.1 | Ambient | -46.9 | 3.5 | 2.5 | -46.0 | 76.0 | 50.0 |
| 2107.95 | V | 15.8 | Ambient | -46.0 | 3.5 | 2.5 | -45.0 | 75.0 | 50.0 |
| 2634.94 | H | 16.3 | Ambient | -45.2 | 3.3 | 2.9 | -44.8 | 74.8 | 50.0 |
| 2634.94 | V | 16.6 | Ambient | -44.8 | 3.3 | 2.9 | -44.4 | 74.4 | 50.0 |
| 3161.93 | H | 17.1 | Ambient | -43.9 | 5.0 | 3.2 | -42.1 | 72.1 | 50.0 |
| 3161.93 | V | 17.9 | Ambient | -42.8 | 5.0 | 3.2 | -41.0 | 71.0 | 50.0 |
| 3688.91 | H | 17.3 | Ambient | -45.3 | 6.1 | 3.4 | -42.6 | 72.6 | 50.0 |
| 3688.91 | V | 16.9 | Ambient | -43.7 | 6.1 | 3.4 | -41.0 | 71.0 | 50.0 |
| 4215.90 | H | 17.6 | Ambient | -42.5 | 6.9 | 3.7 | -39.2 | 69.2 | 50.0 |
| 4215.90 | V | 17.7 | Ambient | -42.3 | 6.9 | 3.7 | -39.0 | 69.0 | 50.0 |
| 4742.89 | H | 18.6 | Ambient | -40.5 | 6.8 | 3.9 | -37.5 | 67.5 | 50.0 |
| 4742.89 | V | 18.7 | Ambient | -40.2 | 6.8 | 3.9 | -37.3 | 67.3 | 50.0 |
| 5269.88 | H | 22.1 | Ambient | -36.2 | 7.8 | 4.1 | -32.4 | 62.4 | 50.0 |
| 5269.88 | V | 22.1 | Ambient | -36.2 | 7.8 | 4.1 | -32.4 | 62.4 | 50.0 |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-7.14 Radiated Spurious Harmonic Emissions, Power Output 11 Watts, 526.9875MHz

| Test Details | |
|------------------|-----------------------------------|
| Manufacturer | Motorola Solutions Inc. |
| EUT | UHF 10W Repeater |
| Model No. | SLR1000 |
| Serial No. | 521IVE000Z |
| Mode | Transmit |
| Frequency Tested | 526.9875MHz |
| Notes | 11W |
| Date Tested | April 13, 2023 and April 14, 2023 |

| Freq. MHz | Ant Pol | Meter Reading (dBuV) | Ambient | Calculated Sig. Gen. Reading (dBm) | Equivalent Antenna Gain (dB) | Cable Loss (dB) | ERP (dBm) | Attenuation Below Output Power (dB) | Minimum Attenuation (dB) |
|-----------|---------|----------------------|---------|------------------------------------|------------------------------|-----------------|-----------|-------------------------------------|--------------------------|
| 1053.98 | H | 14.2 | Ambient | -52.6 | 0.5 | 1.8 | -53.9 | 94.4 | 60.4 |
| 1053.98 | V | 14.7 | Ambient | -51.7 | 0.5 | 1.8 | -53.0 | 93.4 | 60.4 |
| 1580.96 | H | 15.1 | Ambient | -52.6 | 4.2 | 2.2 | -50.6 | 91.0 | 60.4 |
| 1580.96 | V | 14.9 | Ambient | -52.2 | 4.2 | 2.2 | -50.3 | 90.7 | 60.4 |
| 2107.95 | H | 15.9 | Ambient | -47.1 | 3.5 | 2.5 | -46.2 | 86.6 | 60.4 |
| 2107.95 | V | 15.6 | Ambient | -46.2 | 3.5 | 2.5 | -45.2 | 85.6 | 60.4 |
| 2634.94 | H | 16.5 | Ambient | -45.0 | 3.3 | 2.9 | -44.6 | 85.0 | 60.4 |
| 2634.94 | V | 16.6 | Ambient | -44.8 | 3.3 | 2.9 | -44.4 | 84.8 | 60.4 |
| 3161.93 | H | 17.5 | Ambient | -43.5 | 5.0 | 3.2 | -41.7 | 82.1 | 60.4 |
| 3161.93 | V | 16.9 | Ambient | -43.8 | 5.0 | 3.2 | -42.0 | 82.4 | 60.4 |
| 3688.91 | H | 17.4 | Ambient | -45.2 | 6.1 | 3.4 | -42.5 | 82.9 | 60.4 |
| 3688.91 | V | 17.0 | Ambient | -43.6 | 6.1 | 3.4 | -40.9 | 81.3 | 60.4 |
| 4215.90 | H | 17.5 | Ambient | -42.6 | 6.9 | 3.7 | -39.3 | 79.7 | 60.4 |
| 4215.90 | V | 17.4 | Ambient | -42.6 | 6.9 | 3.7 | -39.3 | 79.8 | 60.4 |
| 4742.89 | H | 18.6 | Ambient | -40.5 | 6.8 | 3.9 | -37.5 | 78.0 | 60.4 |
| 4742.89 | V | 18.3 | Ambient | -40.6 | 6.8 | 3.9 | -37.7 | 78.1 | 60.4 |
| 5269.88 | H | 21.6 | Ambient | -36.7 | 7.8 | 4.1 | -32.9 | 73.3 | 60.4 |
| 5269.88 | V | 22.0 | Ambient | -36.3 | 7.8 | 4.1 | -32.5 | 72.9 | 60.4 |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-8 Oscillator Frequency Stability

Specification Requirement IC RSS-119 section 5.3:

Fixed and Base stations operating at 406.1-430 MHz and 450-470 MHz and 12.5 kHz channel bandwidth must have a frequency stability of better than +/- 1.5 PPM, and those operating at 25 kHz channel bandwidth must have a frequency stability of better than +/- 2.5 PPM.

Specification Requirement: Reference Part 90.213

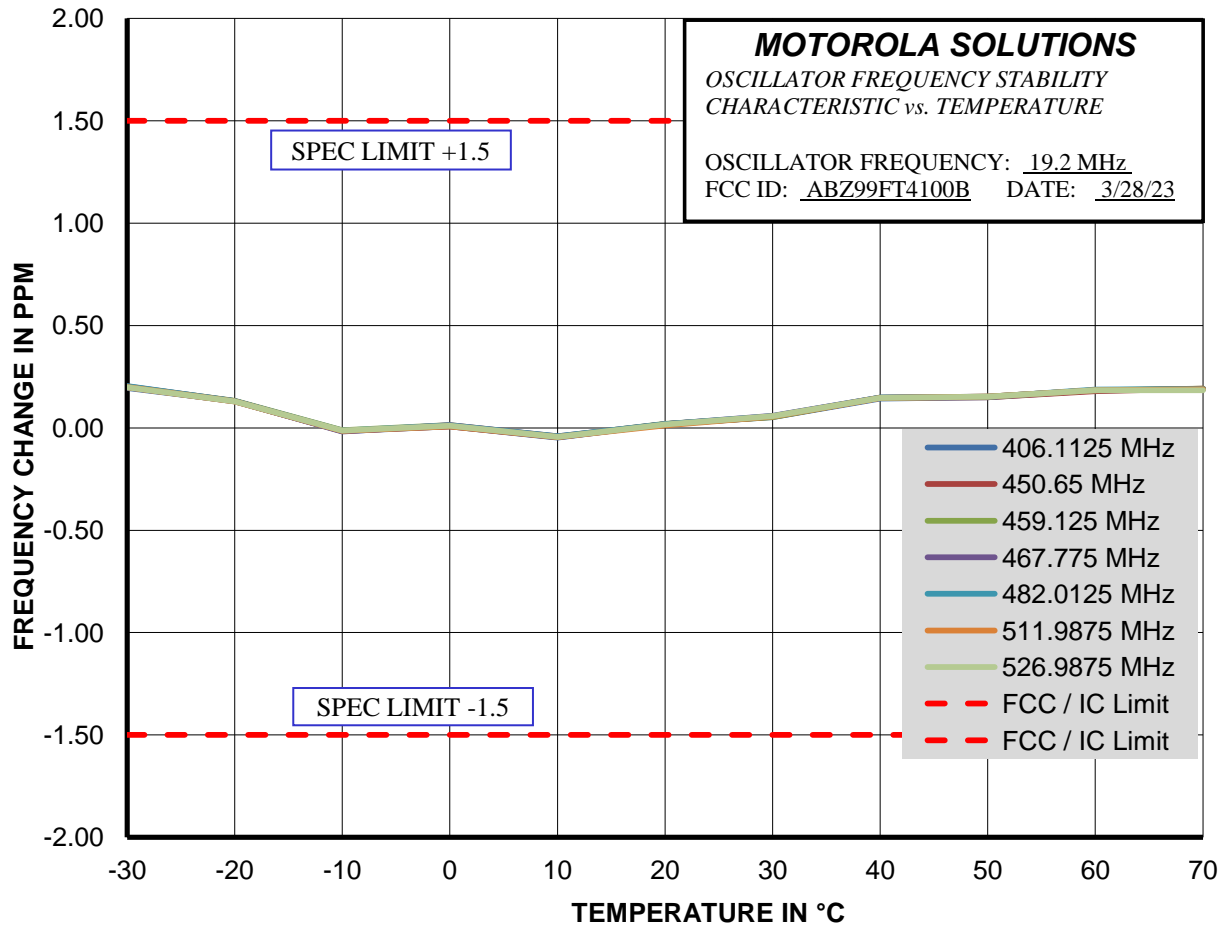
Fixed and Base stations operating at 421-512 MHz and 12.5 kHz channel bandwidth must have a frequency stability of better than +/- 1.5 PPM, and those operating at 25 kHz channel bandwidth must have a frequency stability of better than +/- 2.5 PPM.

Only the more stringent specification limit is shown on the frequency stability exhibits. Performance was measured at carrier frequencies across the operating band.

| <u>EXHIBIT</u> | <u>DESCRIPTION</u> |
|----------------|------------------------------------|
| E1-8.1 | Frequency Stability Vs Temperature |
| E1-8.2 | Frequency Stability Vs Voltage |

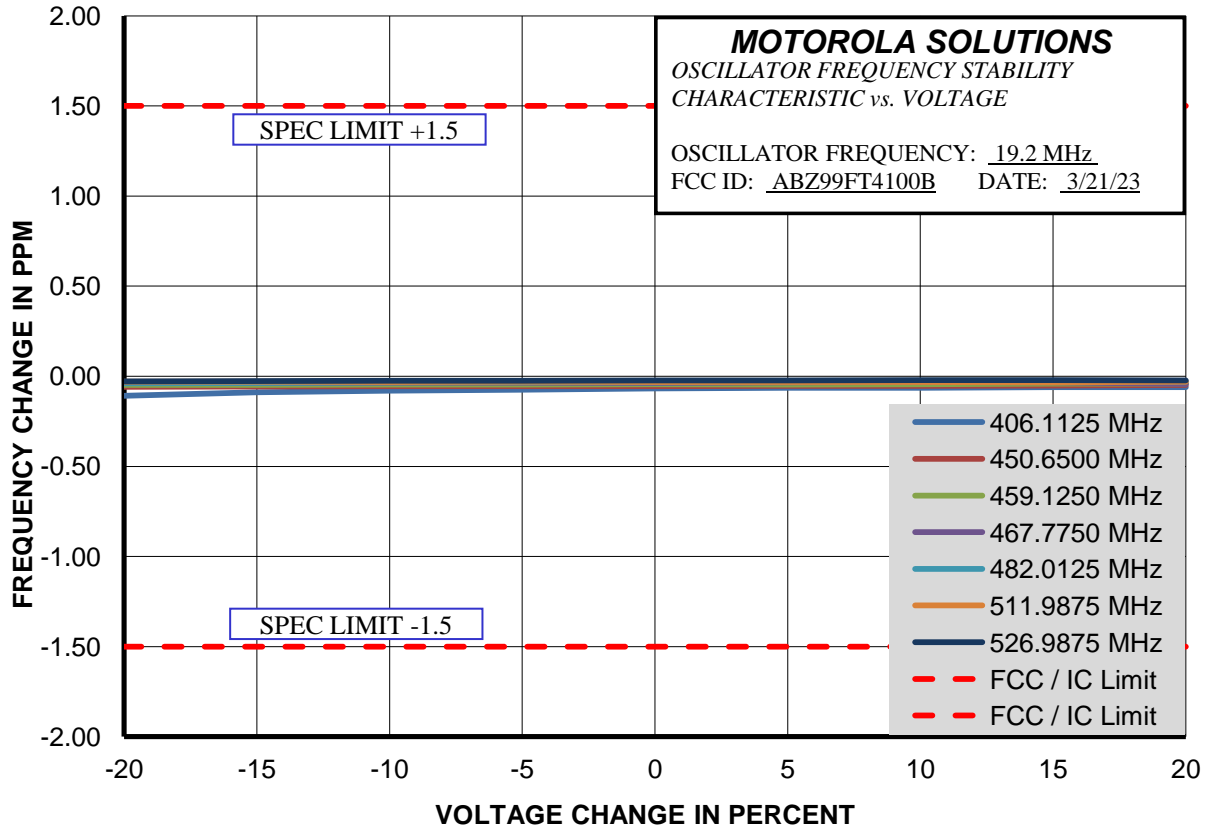
Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-8.1 Frequency Stability Vs Temperature



Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-8.2 Frequency Stability Vs Voltage



Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-9 Frequency Transient Behavior

Specification Requirement 47 CFR §90.214 and IC RSS-119 section 5.9:

Transmitters designed to operate in the 406.1-512 MHz (421-512 MHz for FCC) frequency band must maintain transient frequencies within the maximum frequency difference limits during the time intervals indicated below:

Transient Frequency Behavior 25 kHz Channels

For time intervals:

- a. t1 = 10 ms Maximum Frequency Difference ± 25 kHz
- b. t2 = 25 ms Maximum Frequency Difference ± 12.5 kHz
- c. t3 = 10 ms Maximum Frequency Difference ± 25 kHz

Transient Frequency Behavior 12.5 kHz Channels

For time intervals:

- a. t1 = 10 ms Maximum Frequency Difference ± 12.5 kHz
- b. t2 = 25 ms Maximum Frequency Difference ± 6.25 kHz
- c. t3 = 10 ms Maximum Frequency Difference ± 12.5 kHz

Where t1 and t2 are times immediately following when the transmitter is turned on, and t3 is the time from when the transmitter is turned off.

During the time from the end of t2 to the beginning of t3, the frequency difference must not exceed the limits specified in §90.213 / RSS-119 section 5.3.

Modulation: Analog Mode Frequency Modulation

Carrier Frequencies: Performance was measured at carrier frequencies at the low end, middle, and high end of the operating band.

| <u>EXHIBIT</u> | <u>DESCRIPTION</u> |
|---------------------|--|
| E1-9.1, 2, 3 | Frequency Transient Behavior, 25 kHz Channel Key-Up, 406.1, 450.65, 459.125 MHz |
| E1-9.4, 5, 6, 7 | Frequency Transient Behavior, 25 kHz Channel Key-Up, 467.775, 482.0125, 511.9875, 526.9875 MHz |
| E1-9.8, 9, 10 | Frequency Transient Behavior, 25 kHz Channel De-Key, 406.1, 450.65, 459.125 MHz |
| E1-9.11, 12, 13, 14 | Frequency Transient Behavior, 25 kHz Channel De-Key, 467.775, 482.0125, 511.9875, 526.9875 MHz |
| E1-9.15, 16, 17 | Frequency Transient Behavior, 12.5 kHz Channel Key-Up, 406.1, 450.65, 459.125 MHz |
| E1-9.18, 19, 20, 21 | Frequency Transient Behavior, 12.5 kHz Channel Key-Up, 467.775, 482.0125, 511.9875, 526.9875 MHz |

APPLICANT: MOTOROLA SOLUTIONS

EQUIPMENT TYPE: ABZ99FT4100B

109AB-99FT4100B

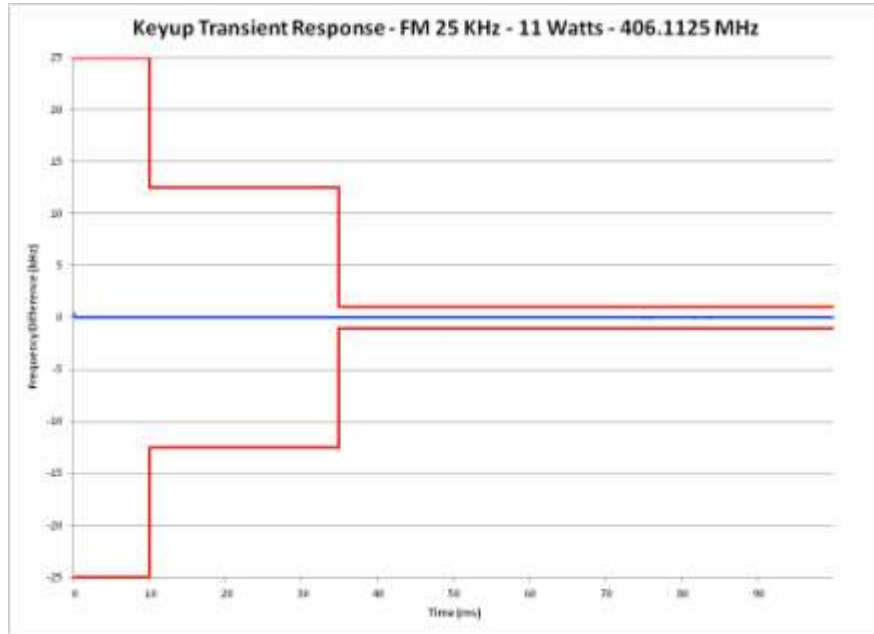
**Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC
47 CFR 90 and IC RSS-119.**

E1-9.22, 23, 24 Frequency Transient Behavior, 12.5 kHz Channel De-key, 406.1, 450.65,
459.125 MHz

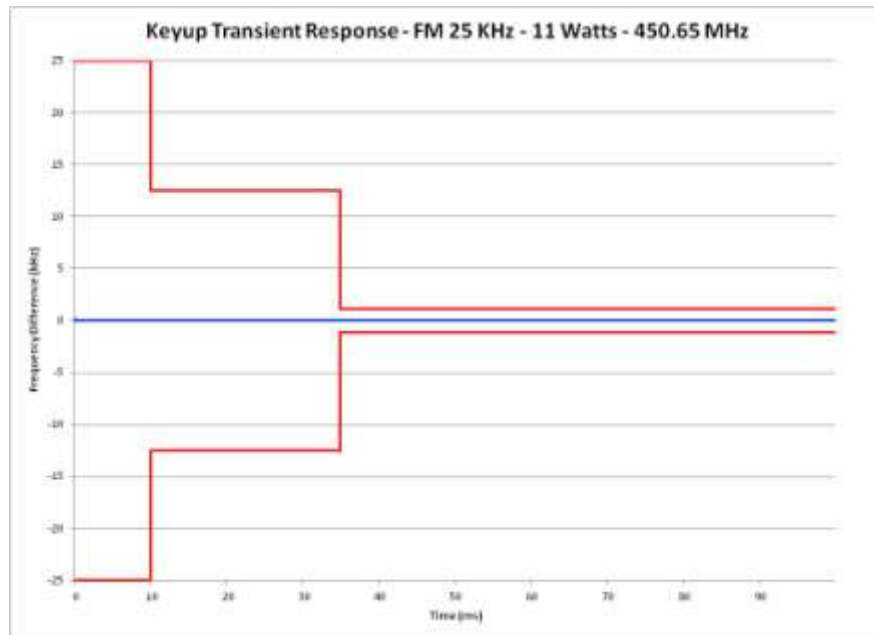
E1-9.25, 26, 27, 28 Frequency Transient Behavior, 12.5 kHz Channel De-key, 467.775,
482.0125, 511.9875, 526.9875 MHz

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-9.1 Frequency Transient Behavior, 25 kHz Channel Key-Up, 406.1125 MHz

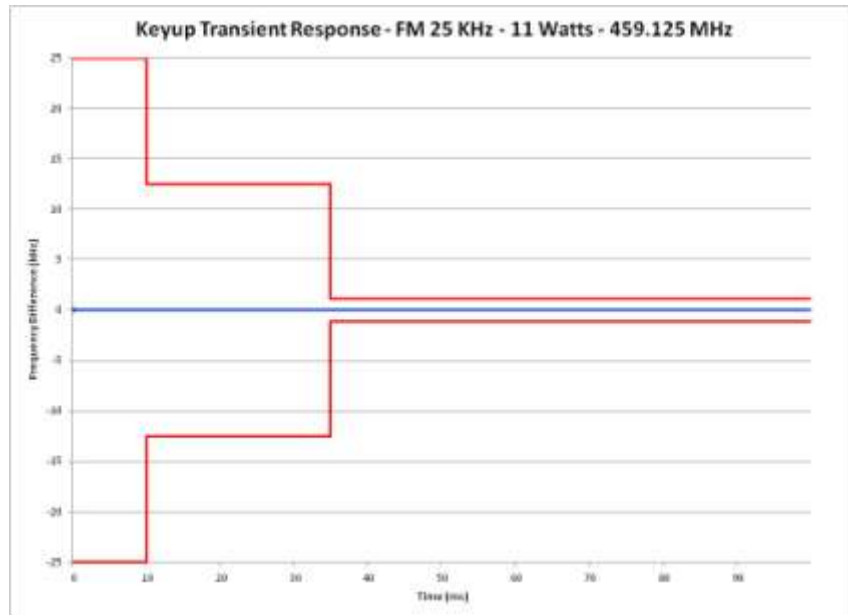


E1-9.2 Frequency Transient Behavior, 25 kHz Channel Key-Up, 450.6500 MHz

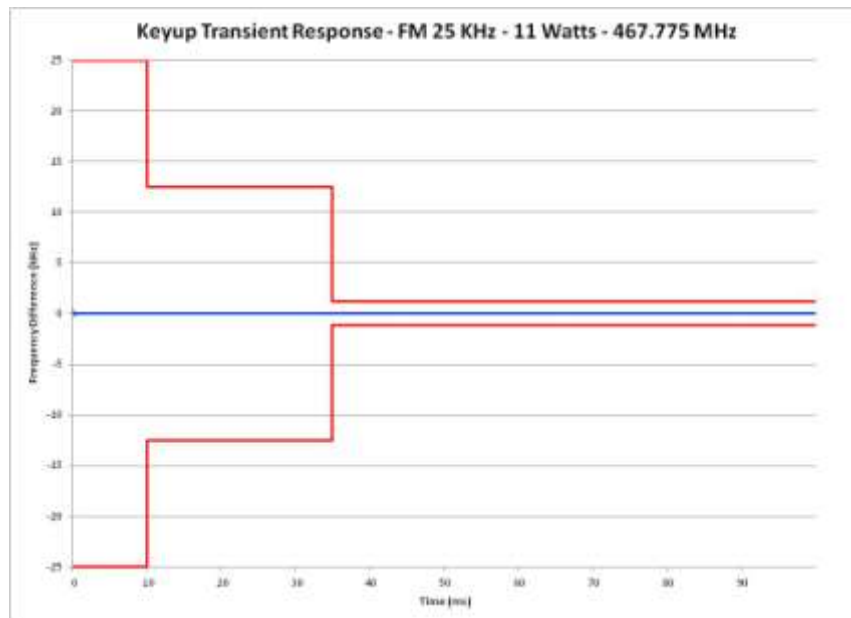


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-9.3 Frequency Transient Behavior, 25 kHz Channel Key-Up, 459.125 MHz

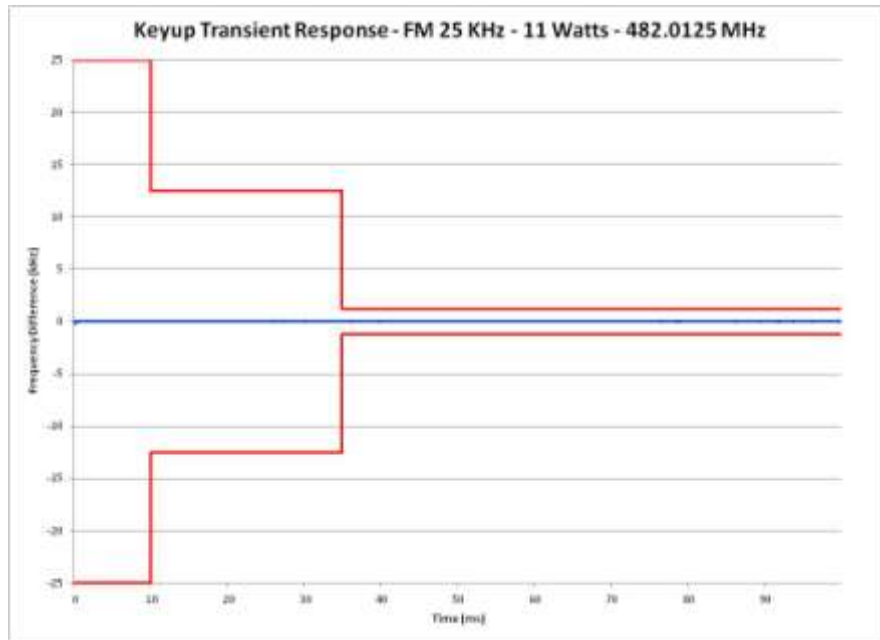


E1-9.4 Frequency Transient Behavior, 25 kHz Channel Key-Up, 467.775 MHz

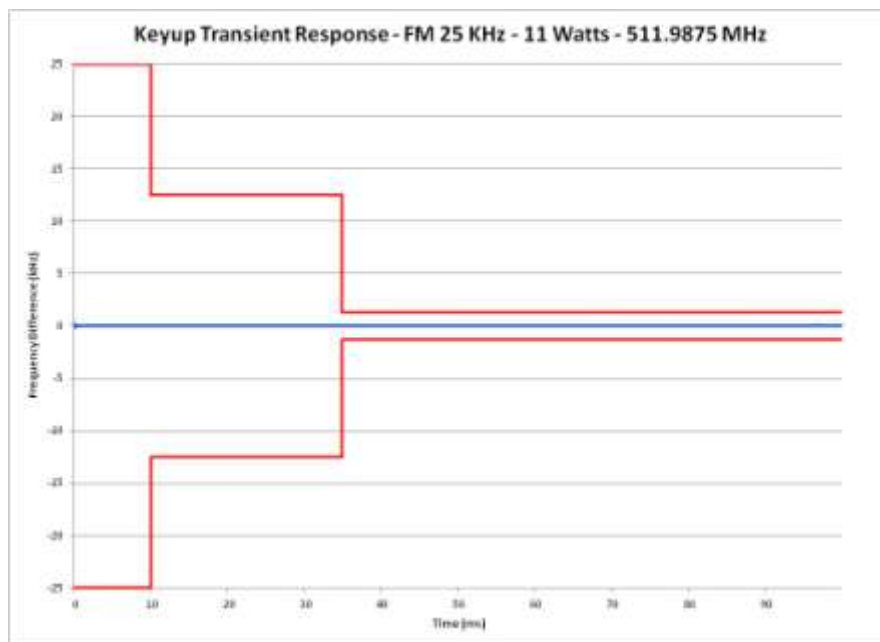


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-9.5 Frequency Transient Behavior, 25 kHz Channel Key-Up, 482.0125 MHz

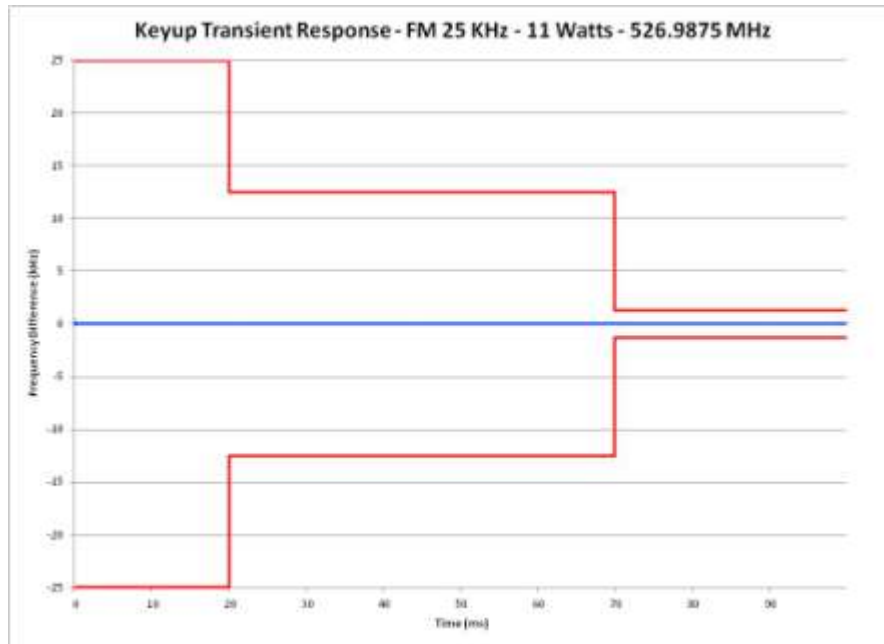


E1-9.6 Frequency Transient Behavior, 25 kHz Channel Key-Up, 511.9875 MHz

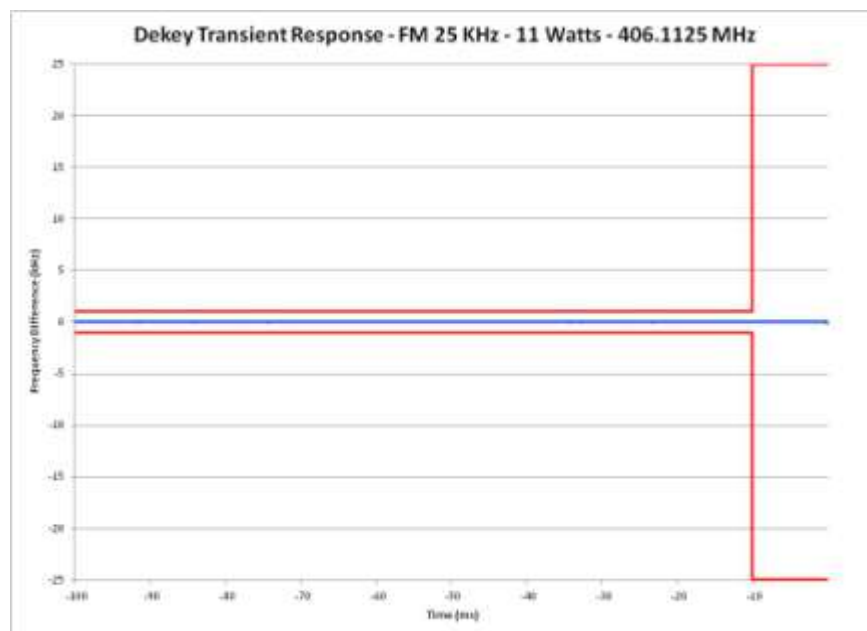


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-9.7 Frequency Transient Behavior, 25 kHz Channel Key-Up, 526.9875 MHz

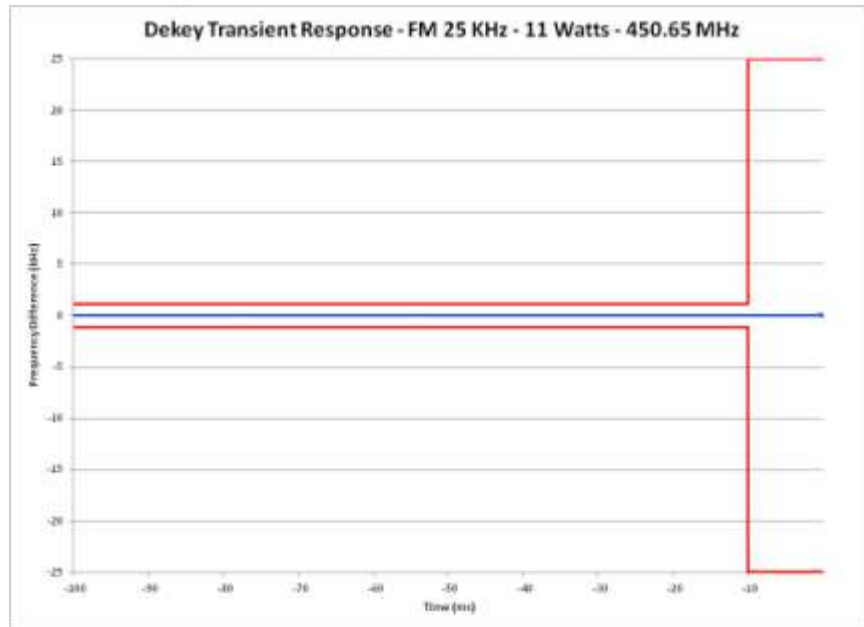


E1-9.8 Frequency Transient Behavior, 25 kHz Channel De-Key, 406.1125 MHz

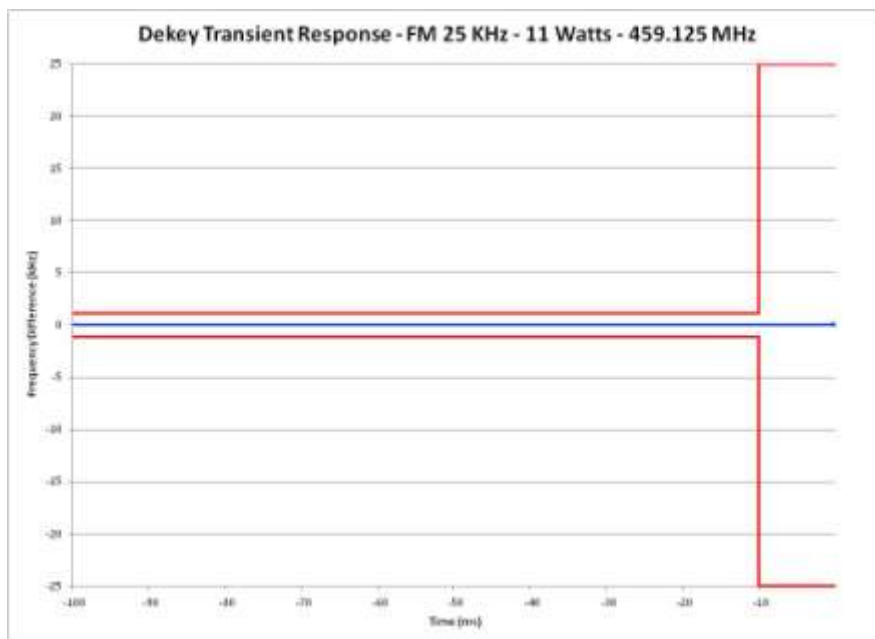


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-9.9 Frequency Transient Behavior, 25 kHz Channel De-Key, 450.6500 MHz

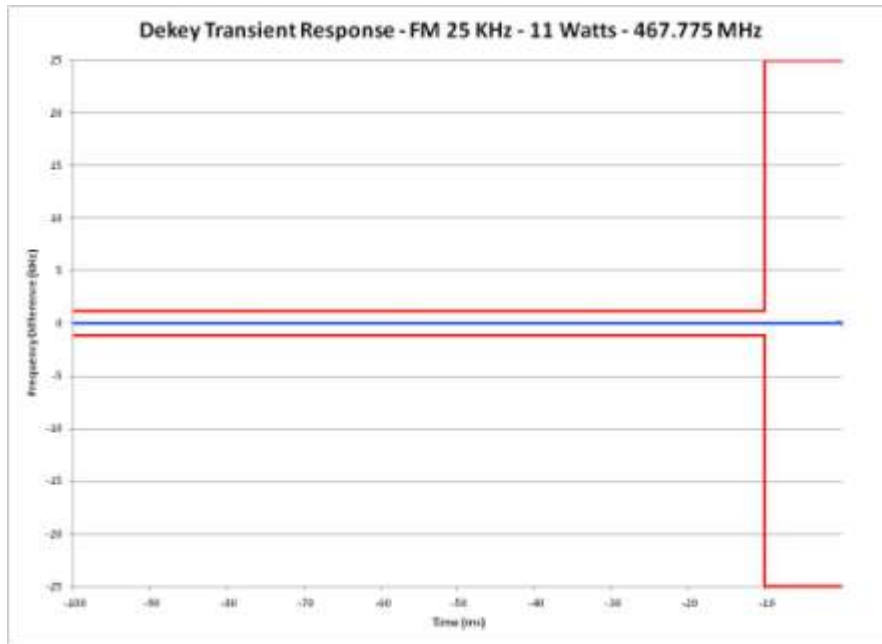


E1-9.10 Frequency Transient Behavior, 25 kHz Channel De-Key, 459.1250 MHz

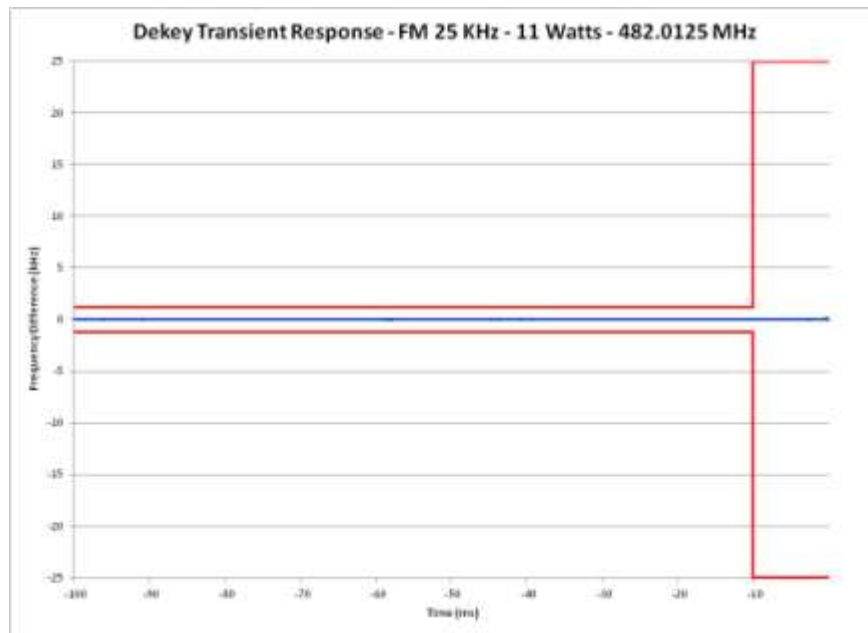


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-9.11 Frequency Transient Behavior, 25 kHz Channel De-Key, 467.775 MHz

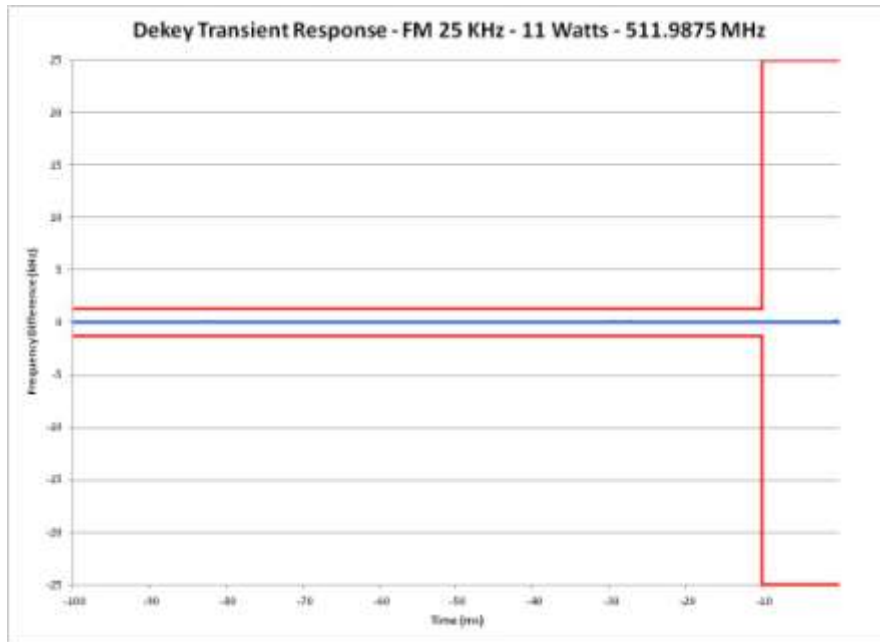


E1-9.12 Frequency Transient Behavior, 25 kHz Channel De-Key, 482.0125 MHz

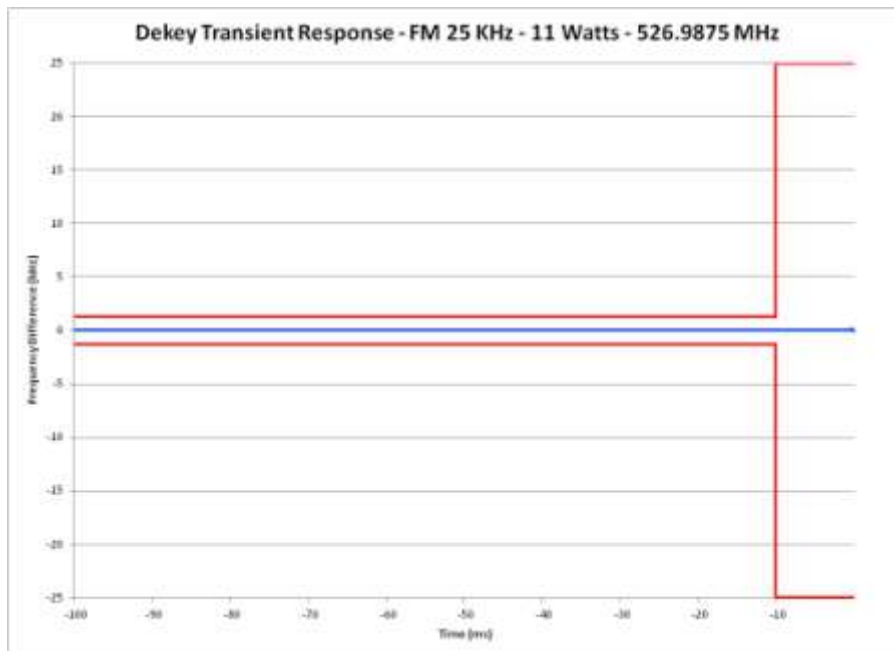


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-9.13 Frequency Transient Behavior, 25 kHz Channel De-Key, 511.9875 MHz

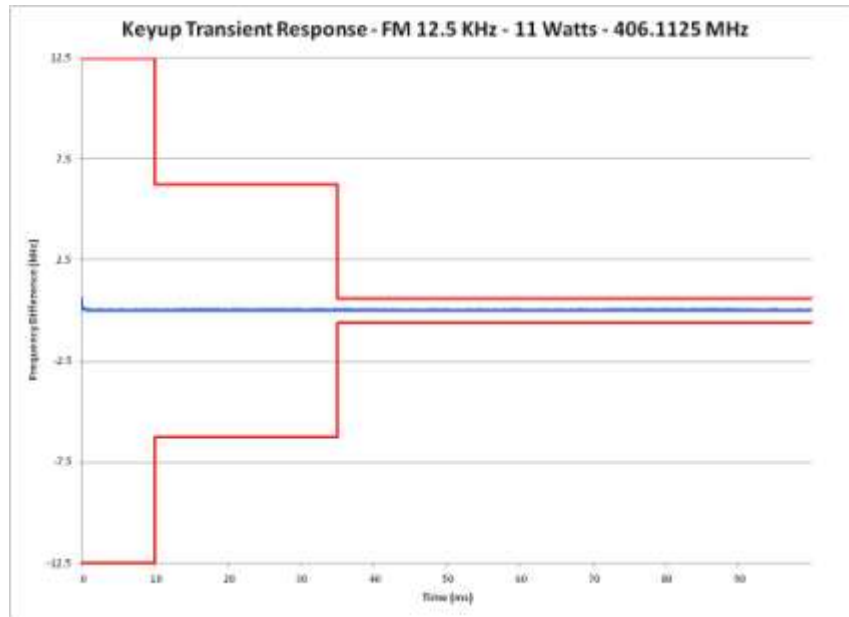


E1-9.14 Frequency Transient Behavior, 25 kHz Channel De-Key, 526.9875 MHz

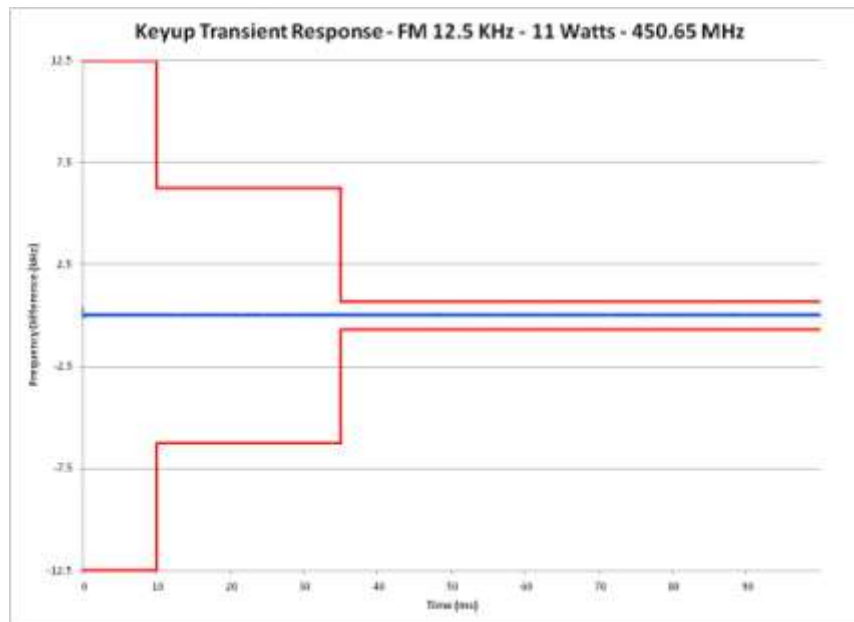


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-9.15 Frequency Transient Behavior, 12.5 kHz Channel Key-Up, 406.1125 MHz

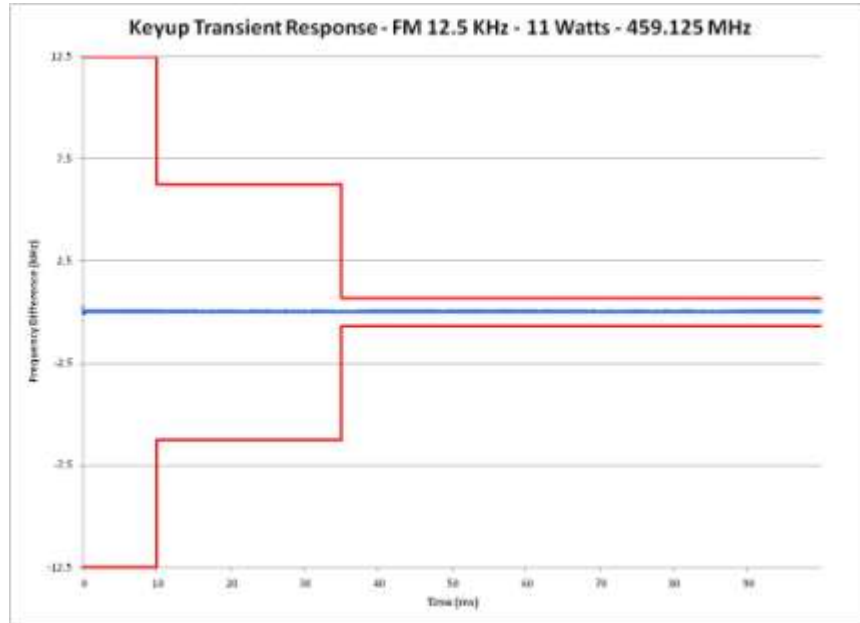


E1-9.16 Frequency Transient Behavior, 12.5 kHz Channel Key-Up, 450.6500 MHz

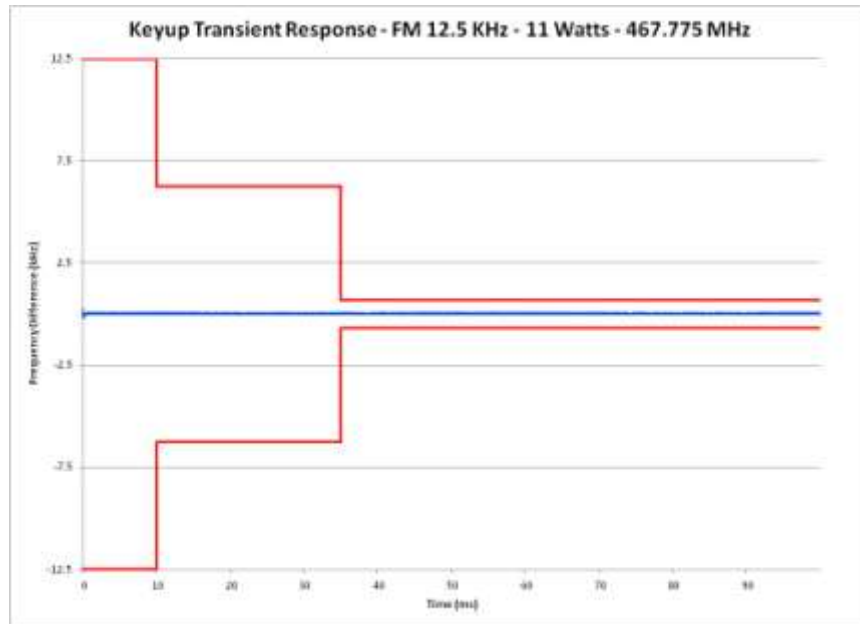


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-9.17 Frequency Transient Behavior, 12.5 kHz Channel Key-Up, 459.1250 MHz

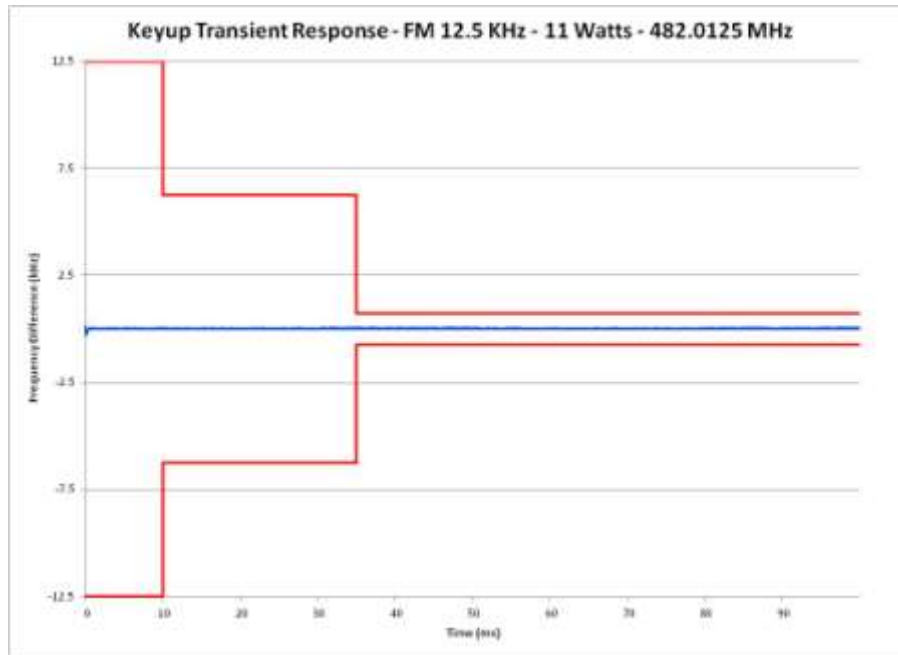


E1-9.18 Frequency Transient Behavior, 12.5 kHz Channel Key-Up, 467.7750 MHz

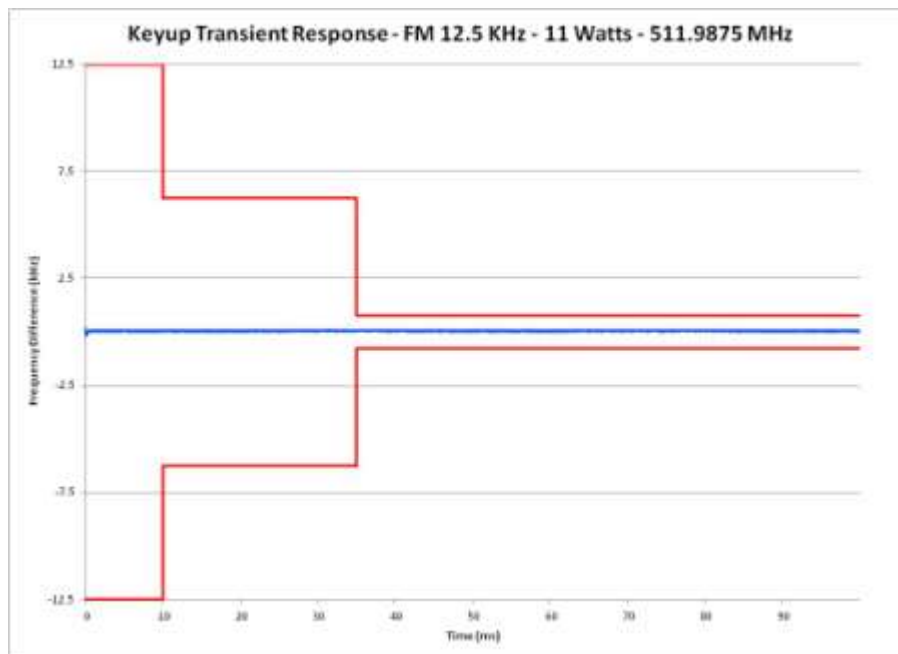


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-9.19 Frequency Transient Behavior, 12.5 kHz Channel Key-Up, 482.0125 MHz

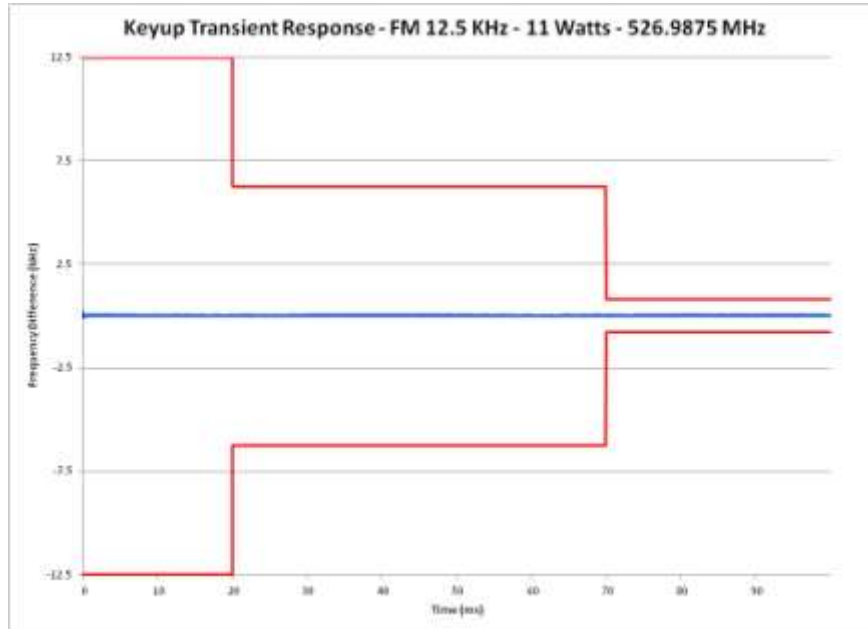


E1-9.20 Frequency Transient Behavior, 12.5 kHz Channel Key-Up, 511.9875 MHz

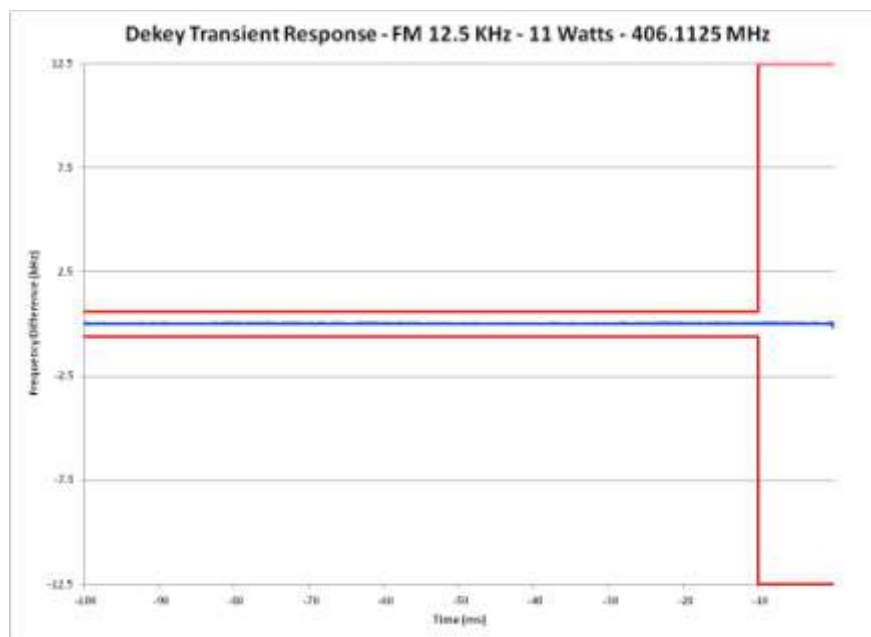


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-9.21 Frequency Transient Behavior, 12.5 kHz Channel Key-Up, 526.9875 MHz

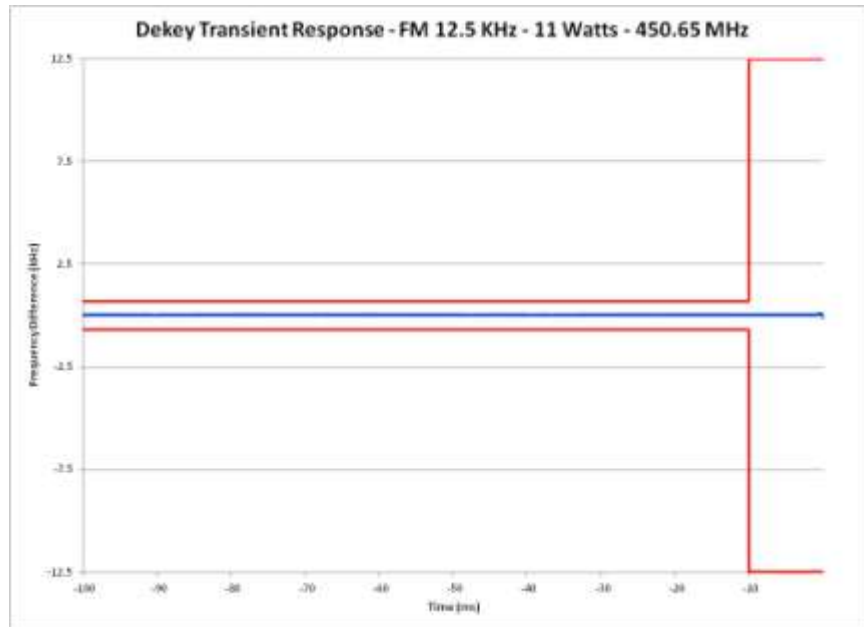


E1-9.22 Frequency Transient Behavior, 12.5 kHz Channel De-key, 406.1125 MHz

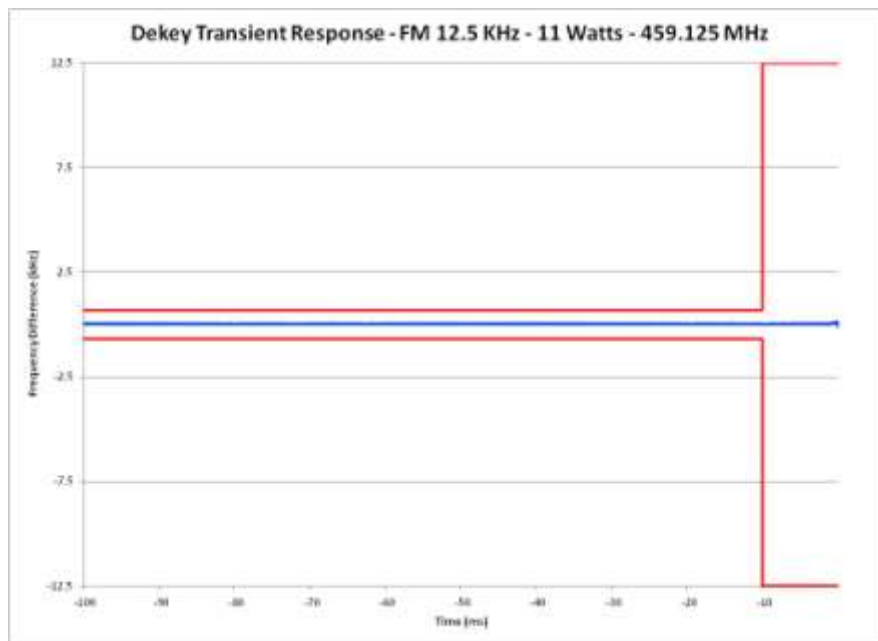


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-9.23 Frequency Transient Behavior, 12.5 kHz Channel De-key, 450.6500 MHz

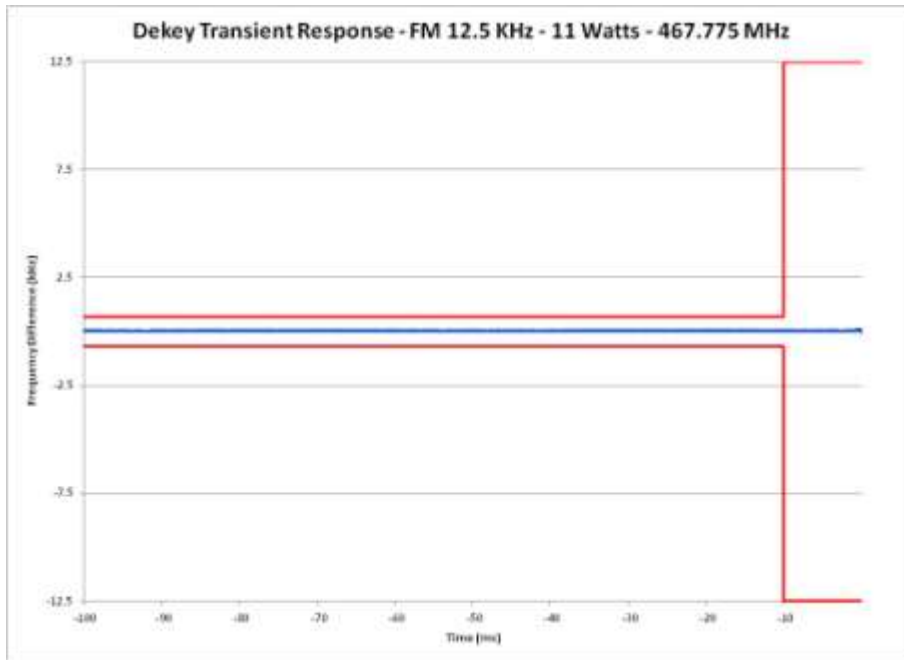


E1-9.24 Frequency Transient Behavior, 12.5 kHz Channel De-key, 459.1250 MHz

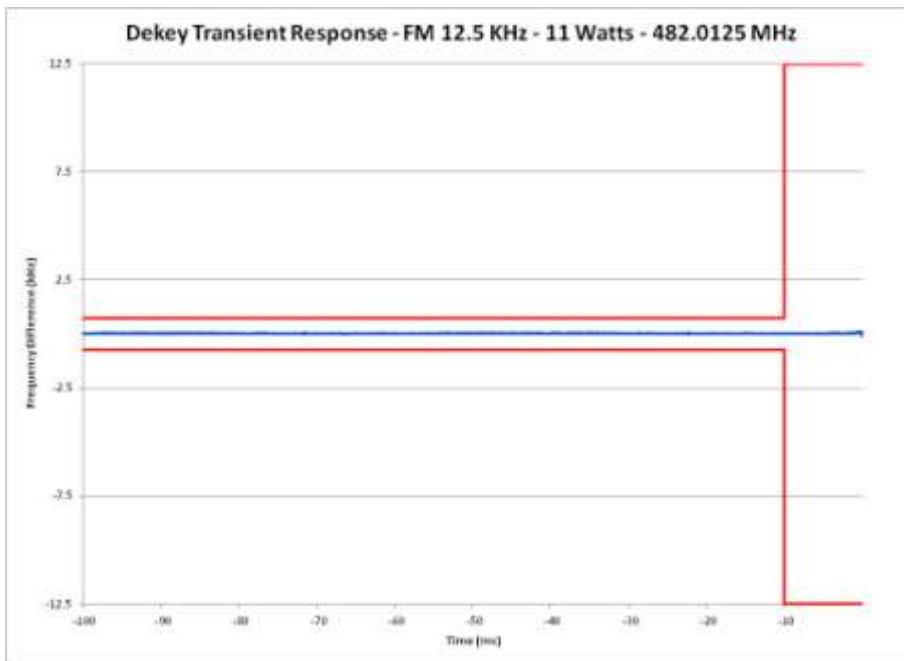


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-9.25 Frequency Transient Behavior, 12.5 kHz Channel De-key, 467.7750 MHz

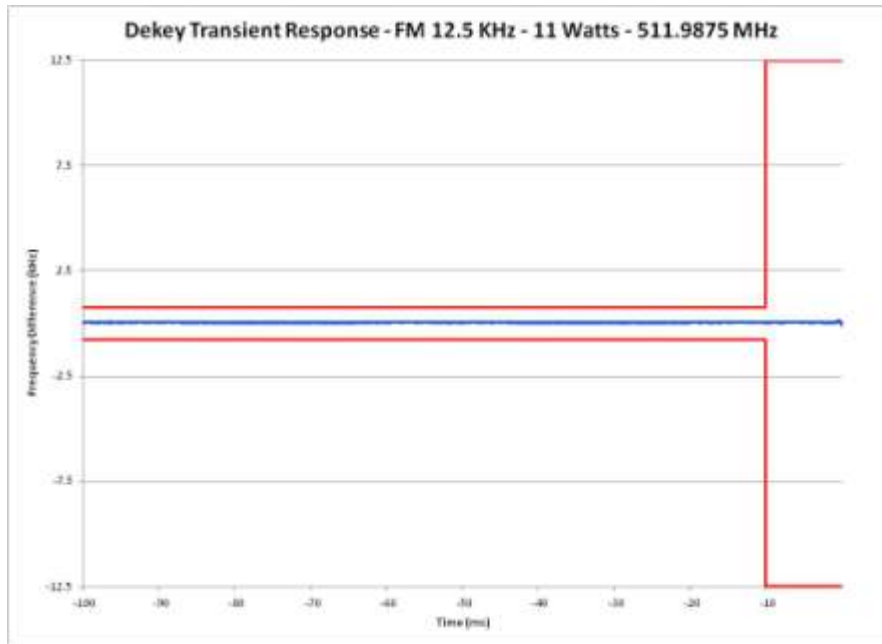


E1-9.26 Frequency Transient Behavior, 12.5 kHz Channel De-key, 482.0125 MHz

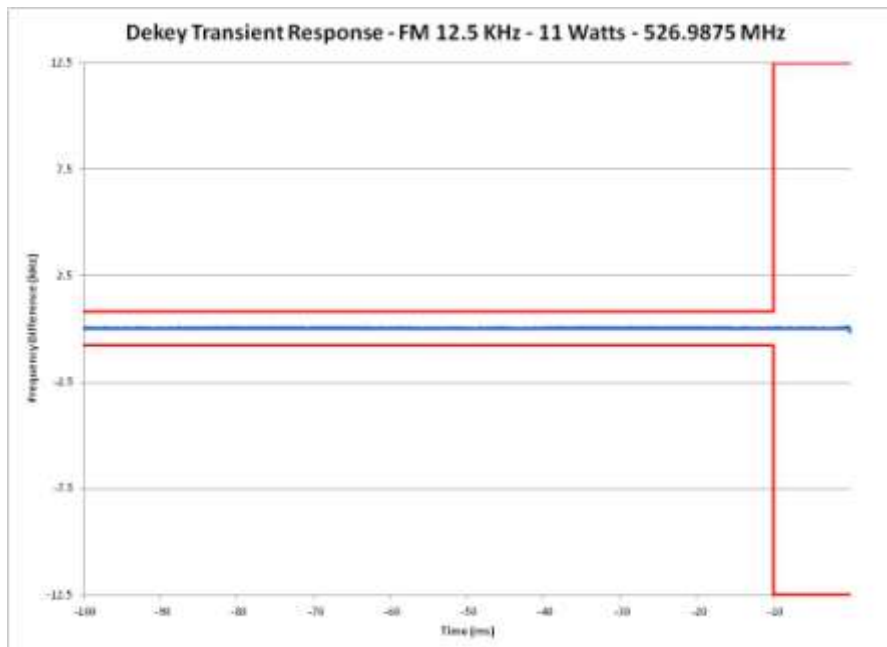


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-9.27 Frequency Transient Behavior, 12.5 kHz Channel De-key, 511.9875 MHz



E1-9.28 Frequency Transient Behavior, 12.5 kHz Channel De-key, 526.9875 MHz



Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-10 Audio Frequency Response

Specification Requirement per TIA 603:

Audio Frequency Response, 25 kHz Channels: The audio frequency response from 300 Hz to 3000 Hz shall not vary more than +1 dB or -3 dB from a true 6 dB per octave pre-emphasis characteristic as referenced to the 1000 Hz level, with an additional 6 dB per octave attenuation allowed from 500 Hz to 300 Hz, and an additional 6 dB per octave attenuation is allowed from 2500 Hz to 3000 Hz in equipment operating in the 25 MHz to 869 MHz range.

Audio Frequency Response, 12.5 kHz Channels: The audio frequency response from 300 Hz to 3000 Hz shall not vary more than +1 dB or -3 dB from a true 6 dB per octave pre-emphasis characteristic as referenced to the 1000 Hz level, with an additional 6 dB per octave attenuation allowed from 500 Hz to 300 Hz. An additional 6 dB per octave rolloff is allowed from 2300 Hz to 2700 Hz, and an additional 12 dB per octave is allowed from 2700 Hz to 3000 Hz in equipment operating in the 896 MHz to 940 MHz range or for 12.5 kHz channel operation.

Modulation: Audio Test Tone

Carrier Frequency: Performance was measured at carrier frequencies at the low end, middle, and high end of the operating band.

Specification: The specification limit is shown on the response plots

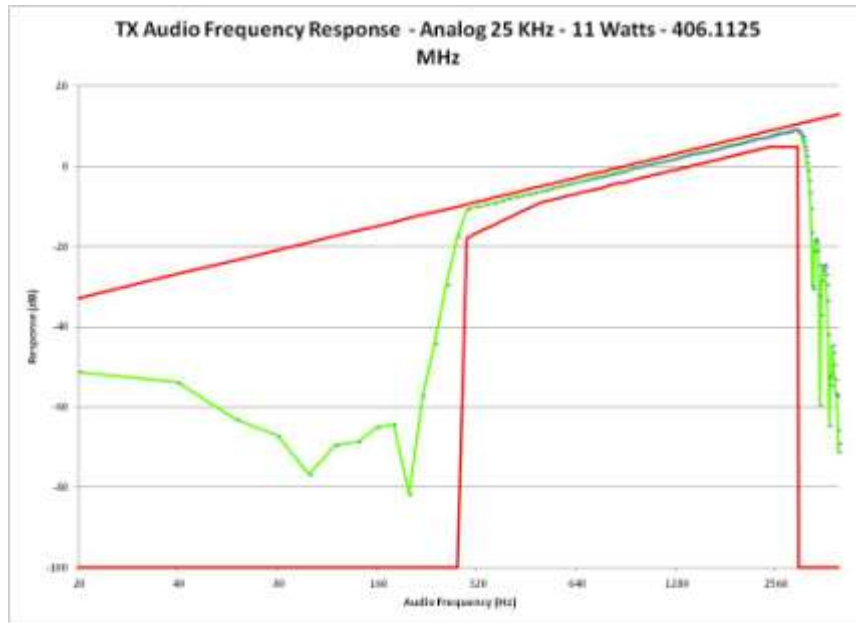
| <u>EXHIBIT</u> | <u>DESCRIPTION</u> |
|----------------|---|
| E1-10.1 | Audio Frequency Response – Modulation Characteristics, 25 kHz Channels – 406.1125 MHz |
| E1-10.2 | Audio Frequency Response – Modulation Characteristics, 25 kHz Channels – 450.6500 MHz |
| E1-10.3 | Audio Frequency Response – Modulation Characteristics, 25 kHz Channels – 459.1250 MHz |
| E1-10.4 | Audio Frequency Response – Modulation Characteristics, 25 kHz Channels – 467.7750 MHz |
| E1-10.5 | Audio Frequency Response – Modulation Characteristics, 25 kHz Channels – 482.0125 MHz |
| E1-10.6 | Audio Frequency Response – Modulation Characteristics, 25 kHz Channels – 511.9875 MHz |
| E1-10.7 | Audio Frequency Response – Modulation Characteristics, 25 kHz Channels – 526.9875 MHz |

**Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC
47 CFR 90 and IC RSS-119.**

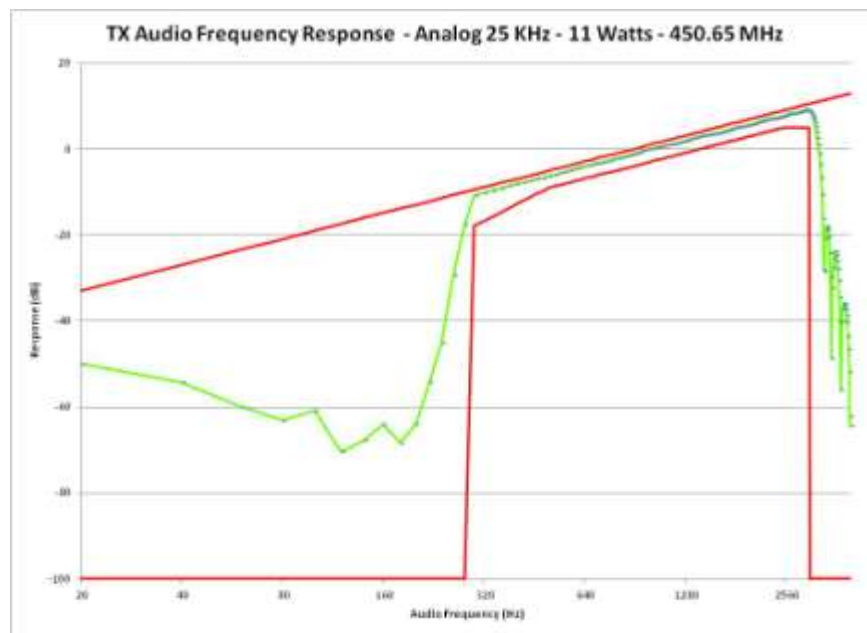
| | |
|----------|--|
| E1-10.8 | Audio Frequency Response – Modulation Characteristics, 12.5 kHz Channels – 406.1125 MHz |
| E1-10.9 | Audio Frequency Response – Modulation Characteristics, 12.5 kHz Channels – 450.6500 MHz |
| E1-10.10 | Audio Frequency Response – Modulation Characteristics, 12.5 kHz Channels – 459.1250 MHz |
| E1-10.11 | Audio Frequency Response – Modulation Characteristics, 12.5 kHz Channels – 467.7750 MHz |
| E1-10.12 | Audio Frequency Response – Modulation Characteristics, 12.5 kHz Channels – 482.0125 MHz |
| E1-10.13 | Audio Frequency Response – Modulation Characteristics, 12.5 kHz Channels – 511.9875 MHz |
| E1-10.14 | Audio Frequency Response – Modulation Characteristics, 12.5 kHz Channels – 526.9875 MHz |

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-10.1 Audio Frequency Response – Modulation Characteristics, 25 kHz Channels – 406.1125 MHz

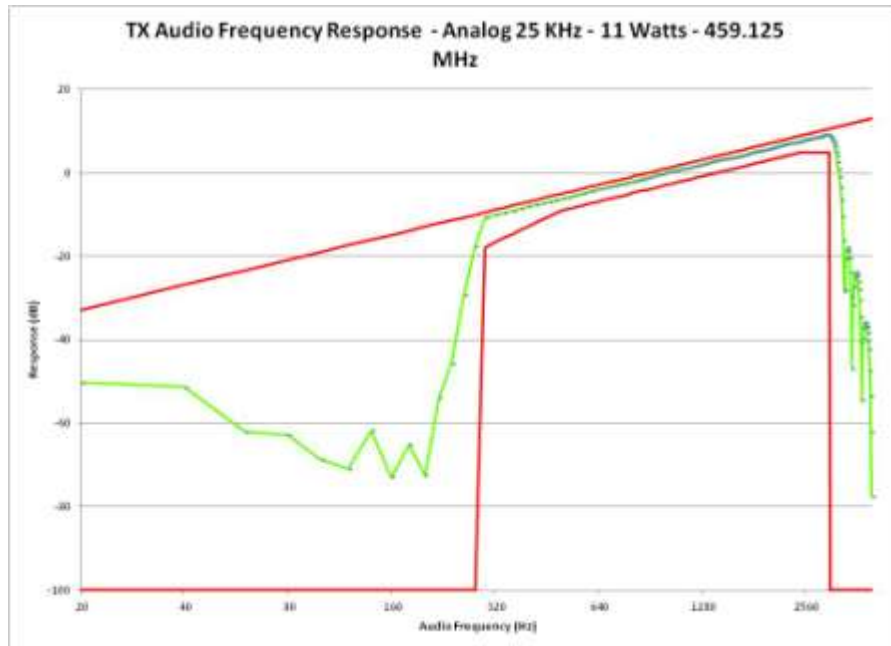


E1-10.2 Audio Frequency Response – Modulation Characteristics, 25 kHz Channels – 450.6500 MHz

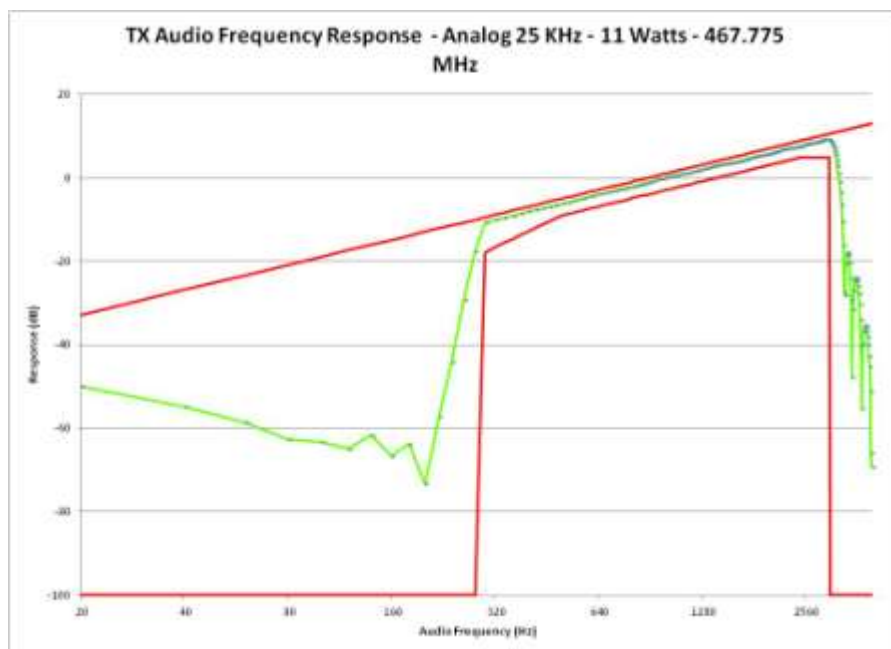


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-10.3 Audio Frequency Response – Modulation Characteristics, 25 kHz Channels – 459.1250 MHz

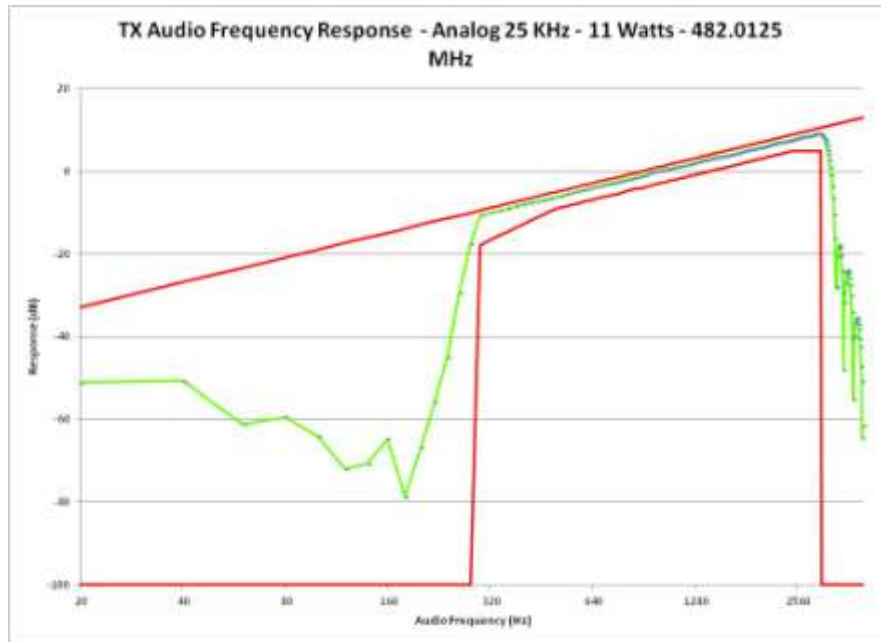


E1-10.4 Audio Frequency Response – Modulation Characteristics, 25 kHz Channels – 467.7750 MHz

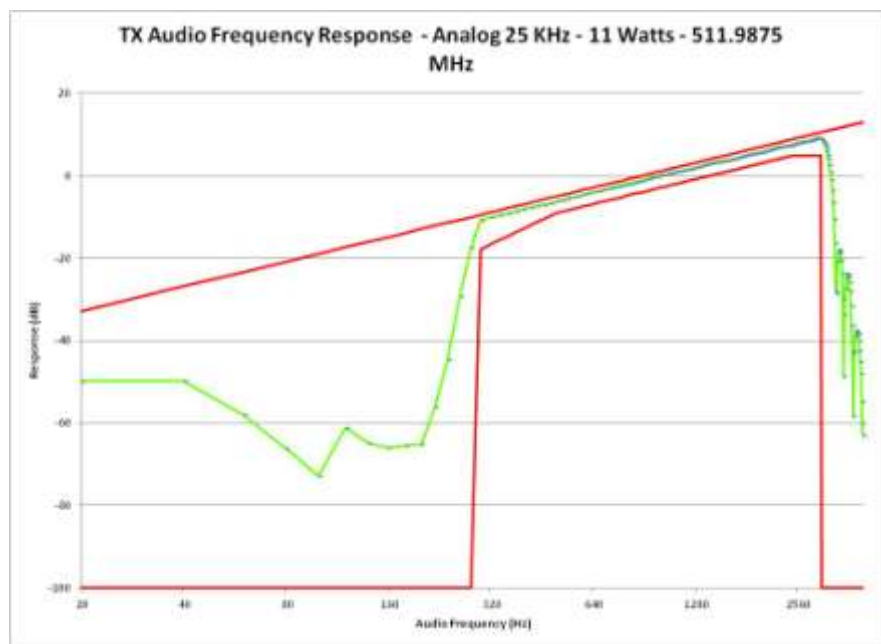


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-10.5 Audio Frequency Response – Modulation Characteristics, 25 kHz Channels – 482.0125 MHz

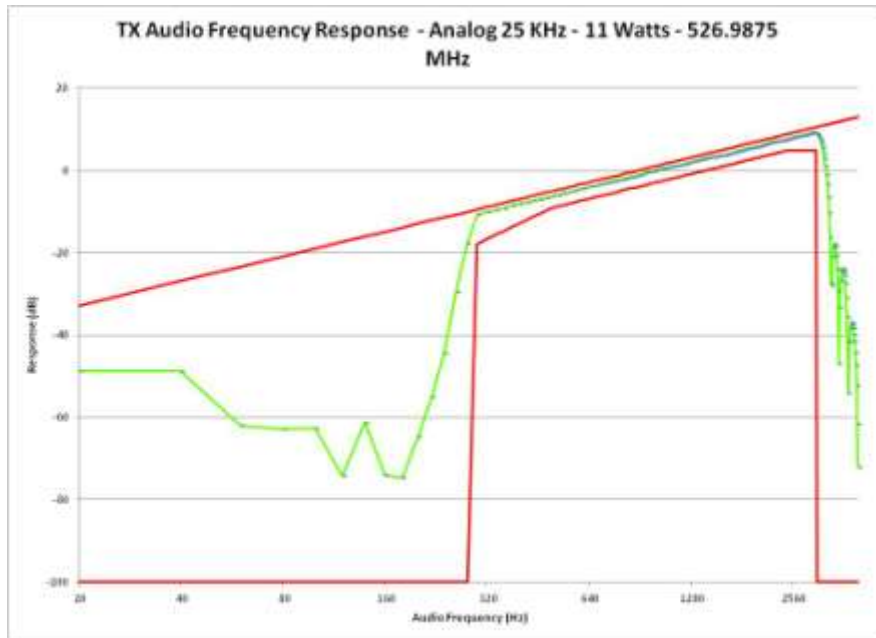


E1-10.6 Audio Frequency Response – Modulation Characteristics, 25 kHz Channels – 511.9875 MHz

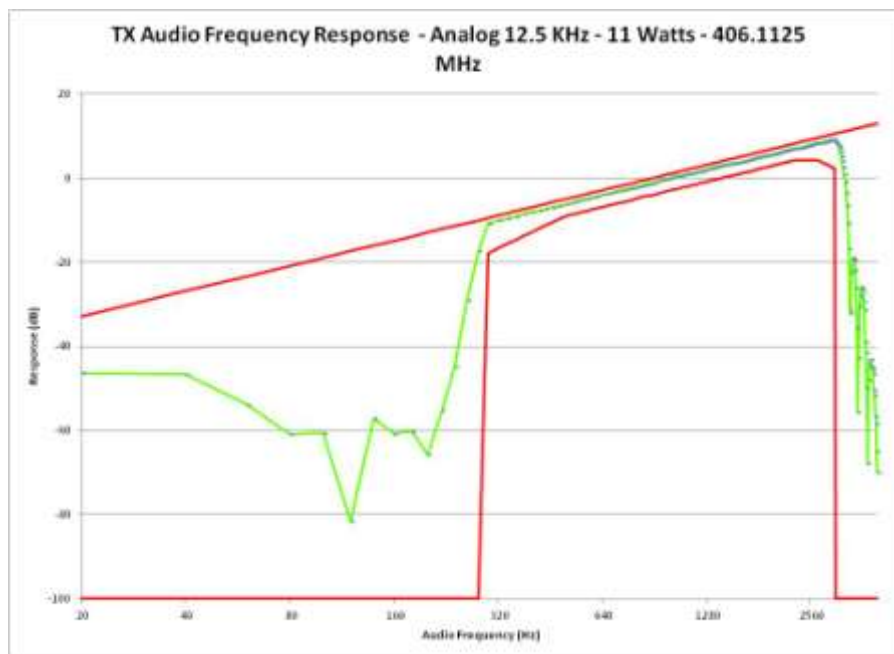


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-10.7 Audio Frequency Response – Modulation Characteristics, 25 kHz Channels – 526.9875 MHz

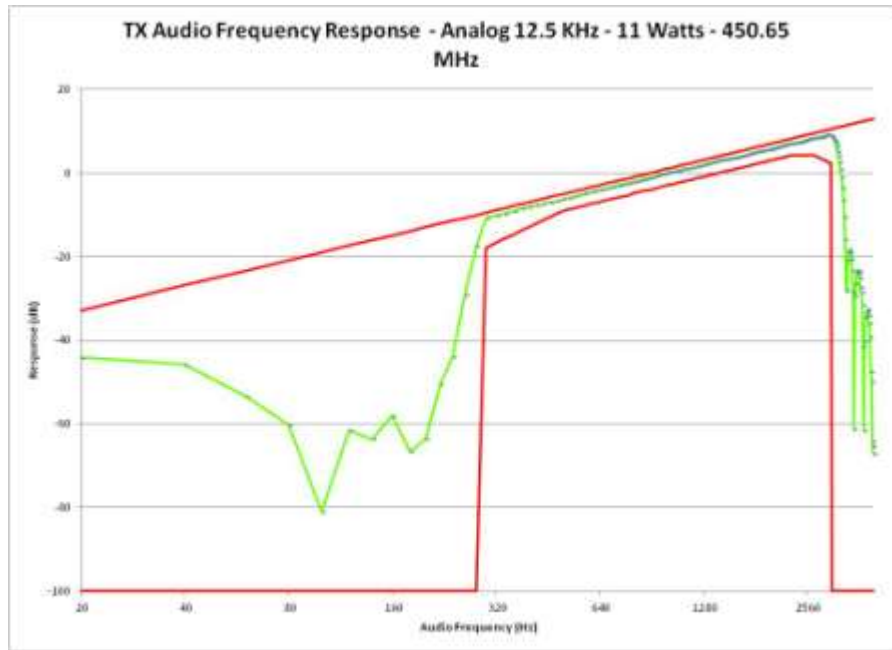


E1-10.8 Audio Frequency Response – Modulation Characteristics, 12.5 kHz Channels – 406.1125 MHz

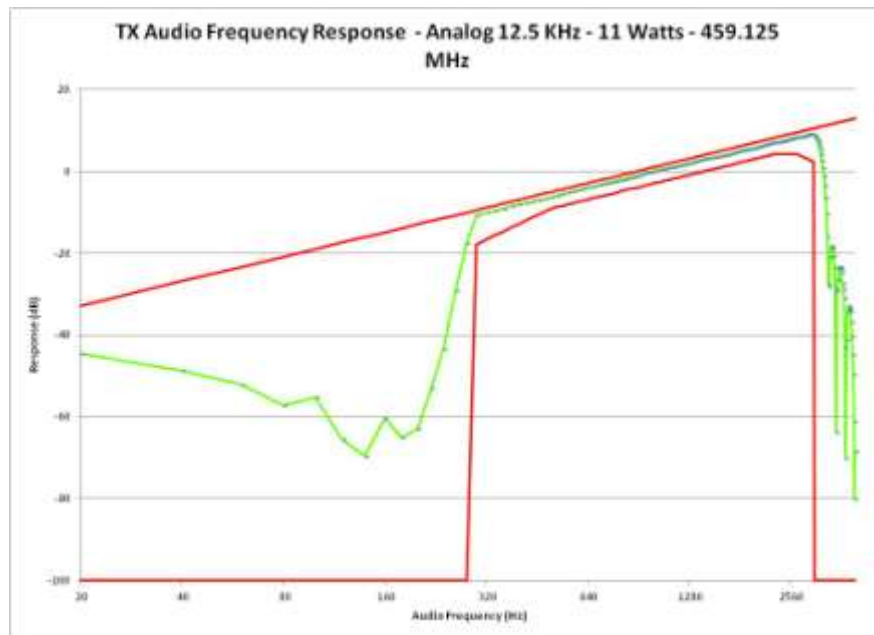


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-10.9 Audio Frequency Response – Modulation Characteristics, 12.5 kHz Channels – 450.1250 MHz

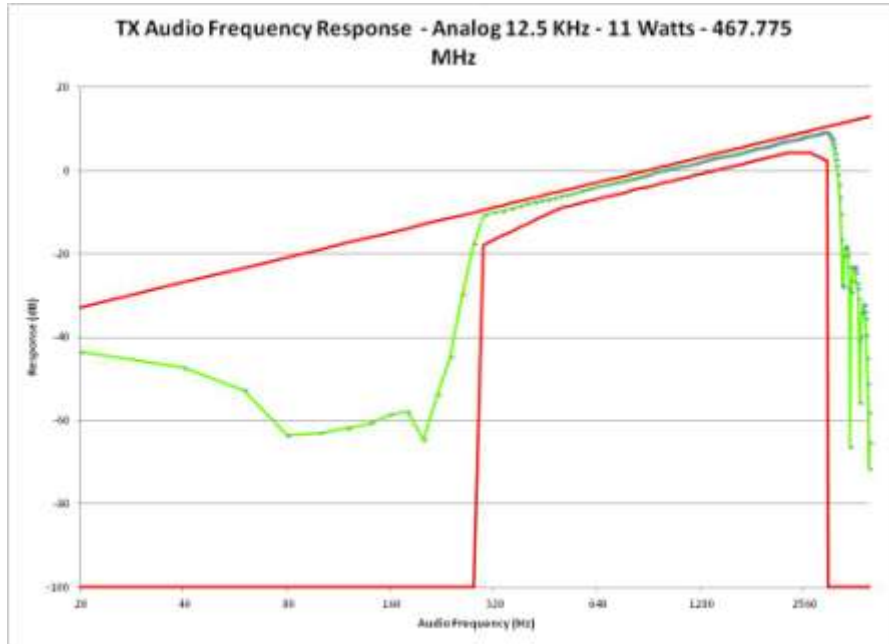


E1-10.10 Audio Frequency Response – Modulation Characteristics, 12.5 kHz Channels – 459.1250 MHz

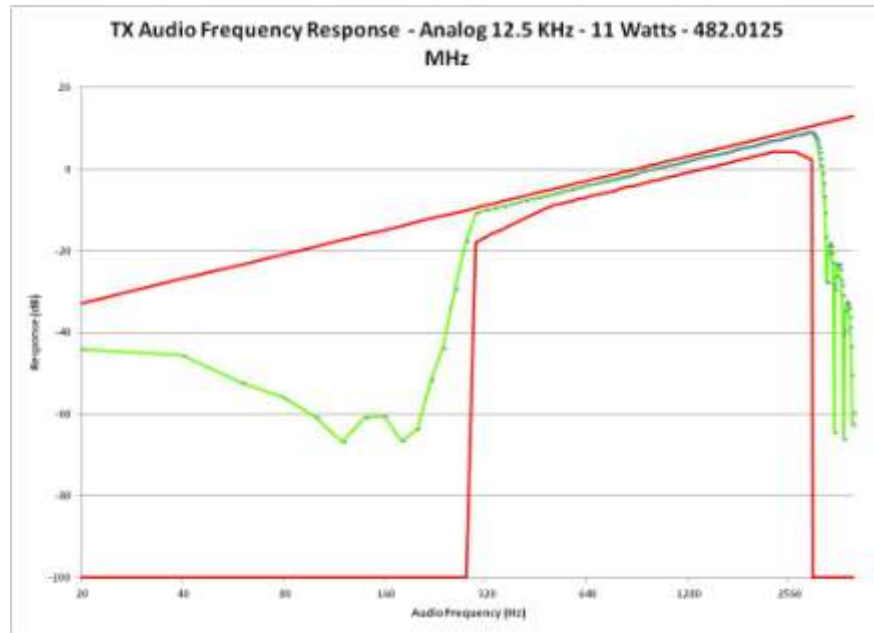


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-10.11 Audio Frequency Response – Modulation Characteristics, 12.5 kHz Channels – 467.7750 MHz

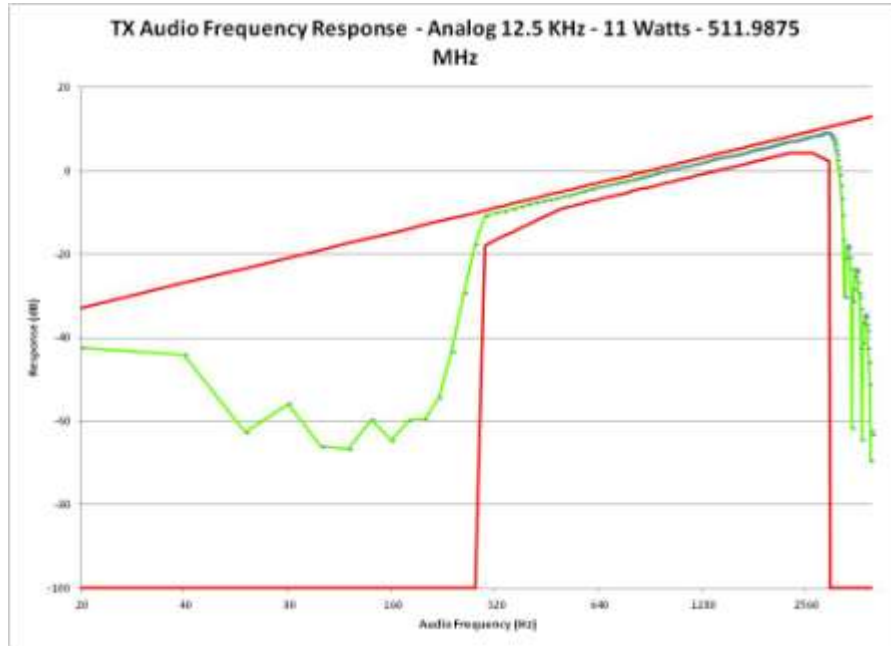


E1-10.12 Audio Frequency Response – Modulation Characteristics, 12.5 kHz Channels – 482.0125 MHz

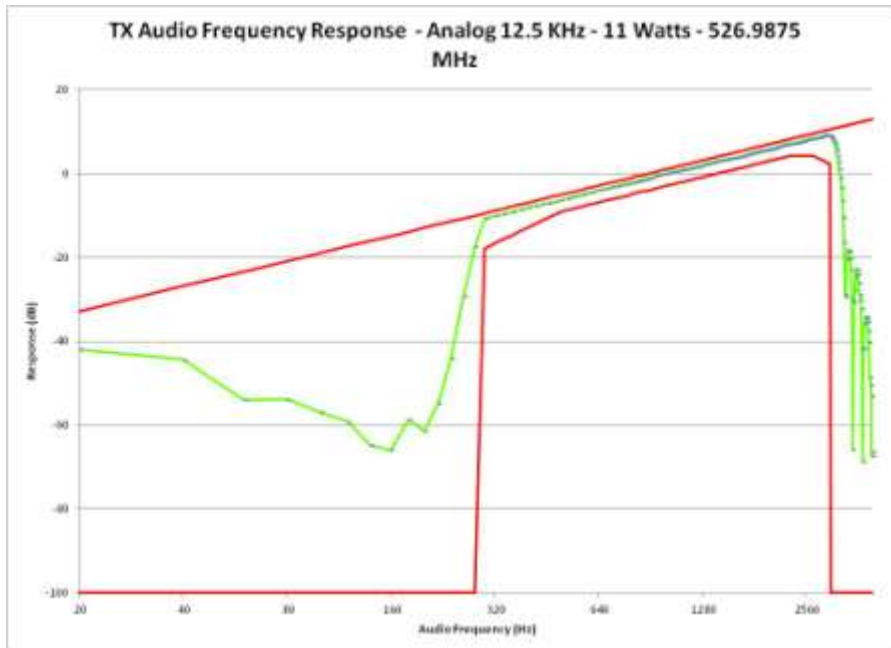


Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-10.13 Audio Frequency Response – Modulation Characteristics, 12.5 kHz Channels – 511.9875 MHz



E1-10.14 Audio Frequency Response – Modulation Characteristics, 12.5 kHz Channels – 526.9875 MHz



Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-11 Modulation Limiting

Specification Requirement per TIA 603:

Modulation Limiting, 25 kHz Channels: The maximum instantaneous peak and steady state deviations shall not exceed the rated system deviation of +/- 5 kHz at any audio frequency or change in level as specified in the method of measurement.

The minimum value of modulation limiting shall be at least 60% of the rated system deviation, or 3 kHz.

Modulation Limiting, 12.5 kHz Channels: The maximum instantaneous peak and steady state deviations shall not exceed the rated system deviation of +/- 2.5 kHz at any audio frequency or change in level as specified in the method of measurement.

The minimum value of modulation limiting shall be at least 60% of the rated system deviation, or 1.5 kHz.

Modulation: Audio Test Tone, Varying Frequency between 300 Hz and 3000 Hz
 Carrier Frequency: Performance was measured at carrier frequencies at the low end, middle, and high end of the operating band .Performance was measured at carrier frequencies at the low end, middle,

Modulation Limiting Response Plots:

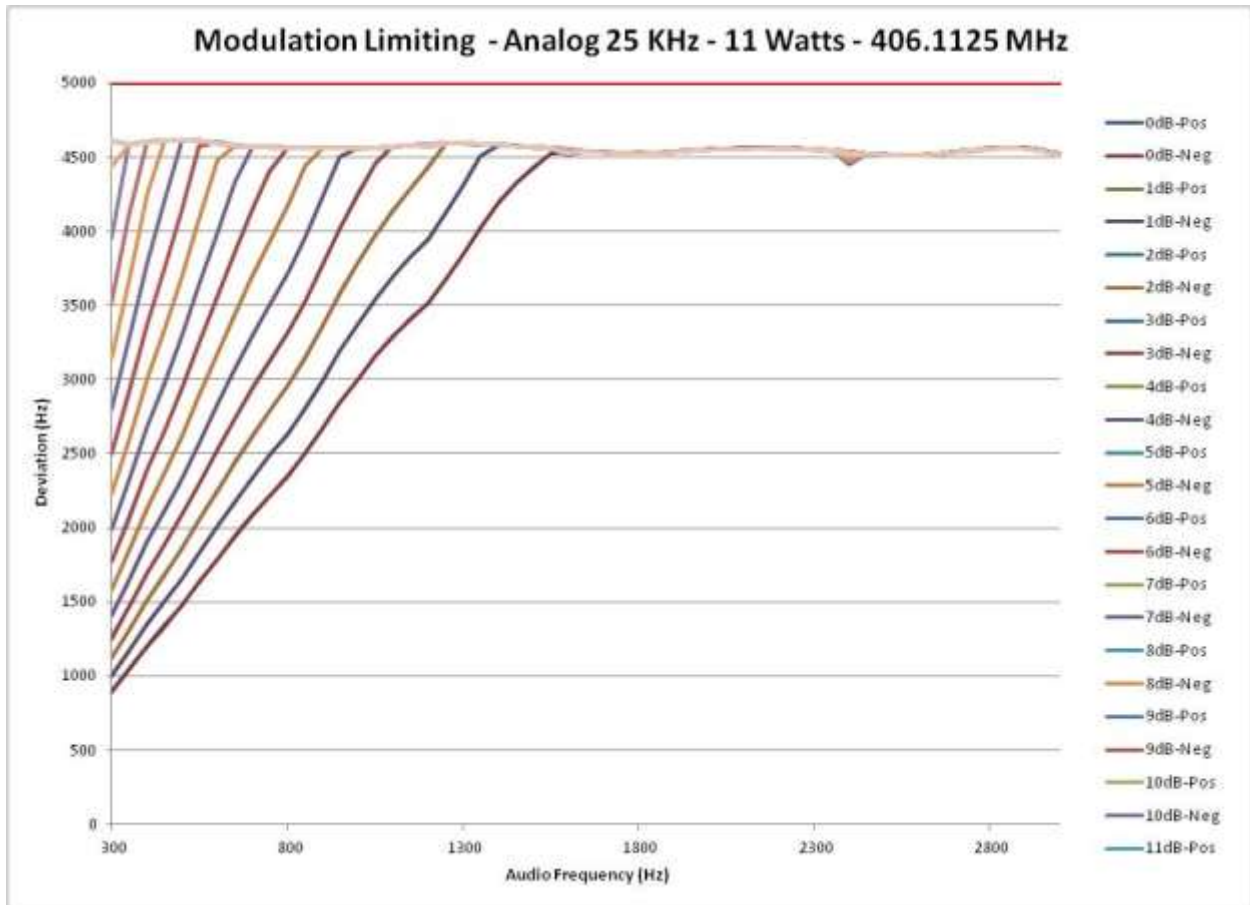
| EXHIBIT | DESCRIPTION |
|----------------|--|
| E1-11.1 | Audio Modulation Limiting – Modulation Characteristics, 25 kHz Channels – 406.1125 MHz |
| E1-11.2 | Audio Modulation Limiting – Modulation Characteristics, 25 kHz Channels – 450.6500 MHz |
| E1-11.3 | Audio Modulation Limiting – Modulation Characteristics, 25 kHz Channels – 459.1250 MHz |
| E1-11.4 | Audio Modulation Limiting – Modulation Characteristics, 25 kHz Channels – 467.7750 MHz |
| E1-11.5 | Audio Modulation Limiting – Modulation Characteristics, 25 kHz Channels – 482.0125 MHz |
| E1-11.6 | Audio Modulation Limiting – Modulation Characteristics, 25 kHz Channels – 511.9875 MHz |
| E1-11.7 | Audio Modulation Limiting – Modulation Characteristics, 25 kHz Channels – 526.9875 MHz |

**Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC
47 CFR 90 and IC RSS-119.**

| | |
|----------|---|
| E1-11.8 | Audio Modulation Limiting – Modulation Characteristics, 12.5 kHz Channels – 406.1125 MHz |
| E1-11.9 | Audio Modulation Limiting – Modulation Characteristics, 12.5 kHz Channels – 450.6500 MHz |
| E1-11.10 | Audio Modulation Limiting – Modulation Characteristics, 12.5 kHz Channels – 459.1250 MHz |
| E1-11.11 | Audio Modulation Limiting – Modulation Characteristics, 12.5 kHz Channels – 467.7750 MHz |
| E1-11.12 | Audio Modulation Limiting – Modulation Characteristics, 12.5 kHz Channels – 482.0125 MHz |
| E1-11.13 | Audio Modulation Limiting – Modulation Characteristics, 12.5 kHz Channels – 511.9875 MHz |
| E1-11.14 | Audio Modulation Limiting – Modulation Characteristics, 12.5 kHz Channels – 526.9875 MHz |

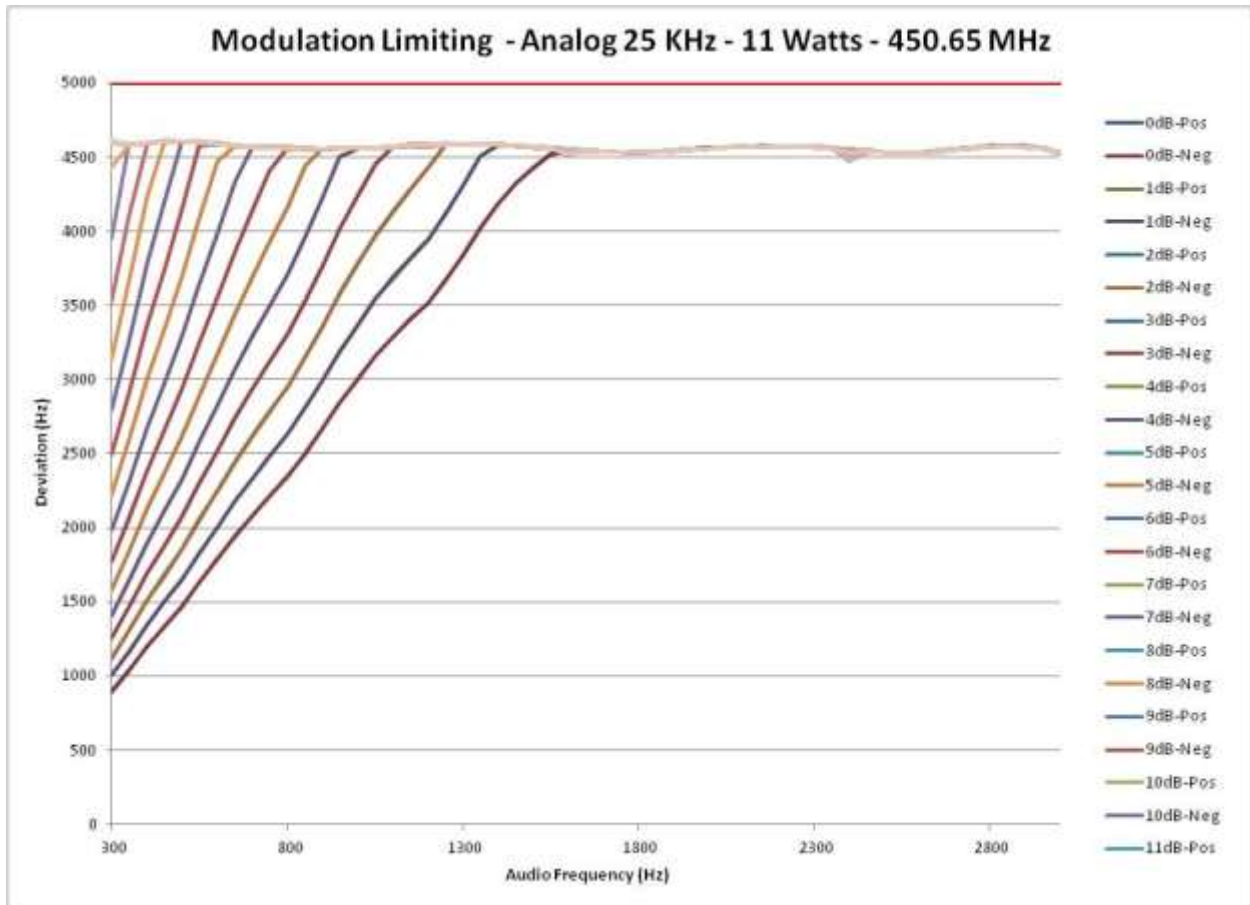
Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-11.1 Audio Modulation Limiting – Modulation Characteristics, 25 kHz Channels – 406.1125 MHz



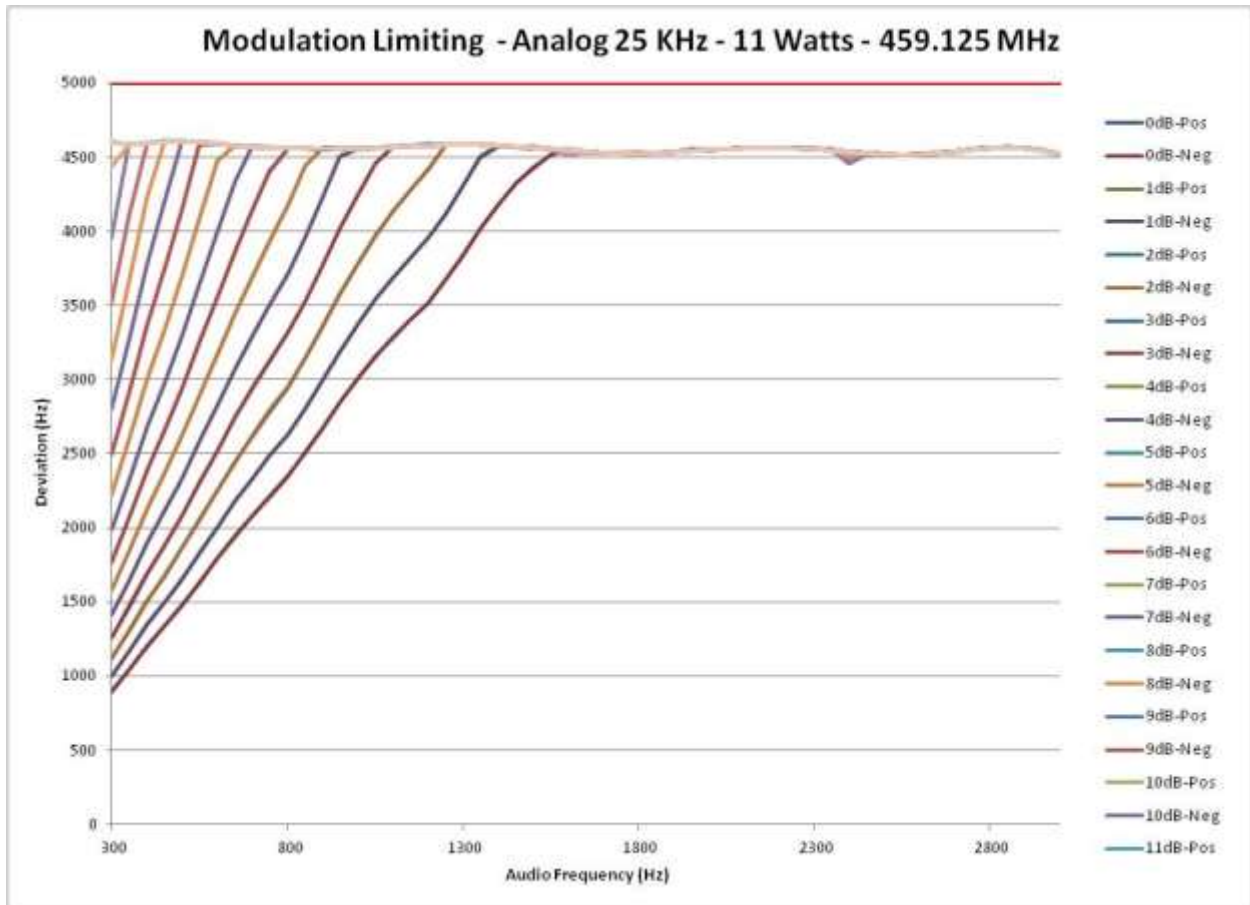
Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-11.2 Audio Modulation Limiting – Modulation Characteristics, 25 kHz Channels – 450.6500 MHz



Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-11.3 Audio Modulation Limiting – Modulation Characteristics, 25 kHz Channels – 459.1250 MHz



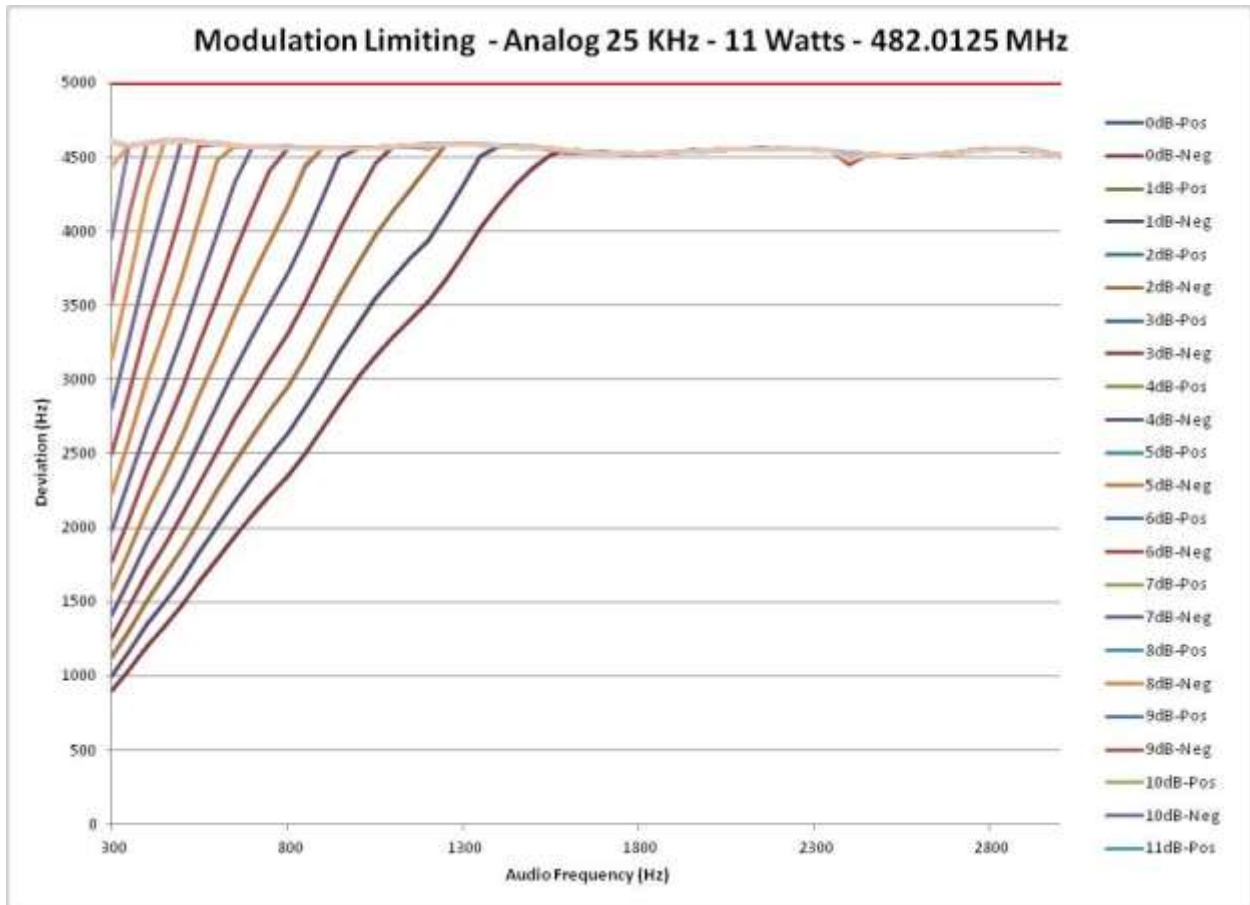
Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-11.4 Audio Modulation Limiting – Modulation Characteristics, 25 kHz Channels – 467.7750 MHz



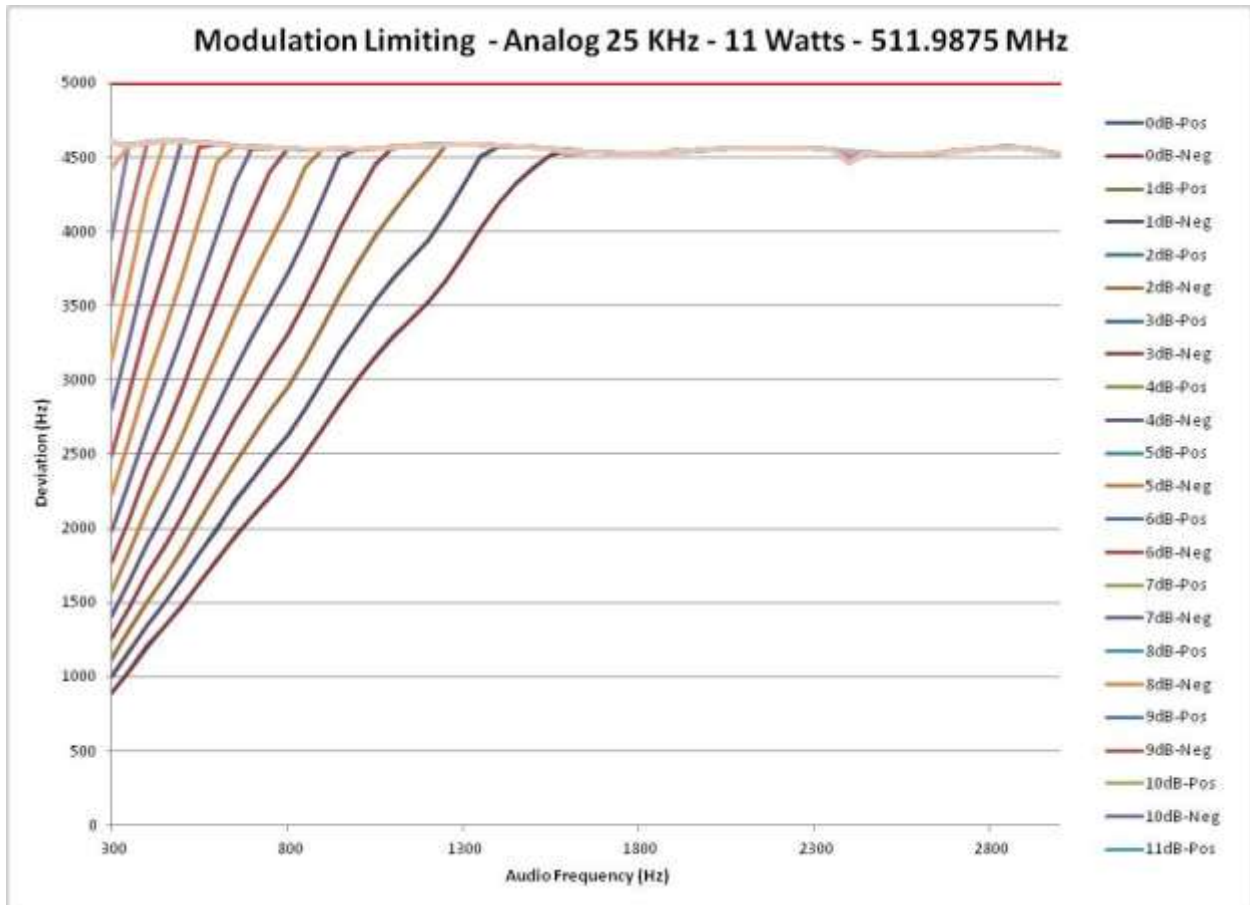
Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-11.5 Audio Modulation Limiting – Modulation Characteristics, 25 kHz Channels – 482.0125 MHz



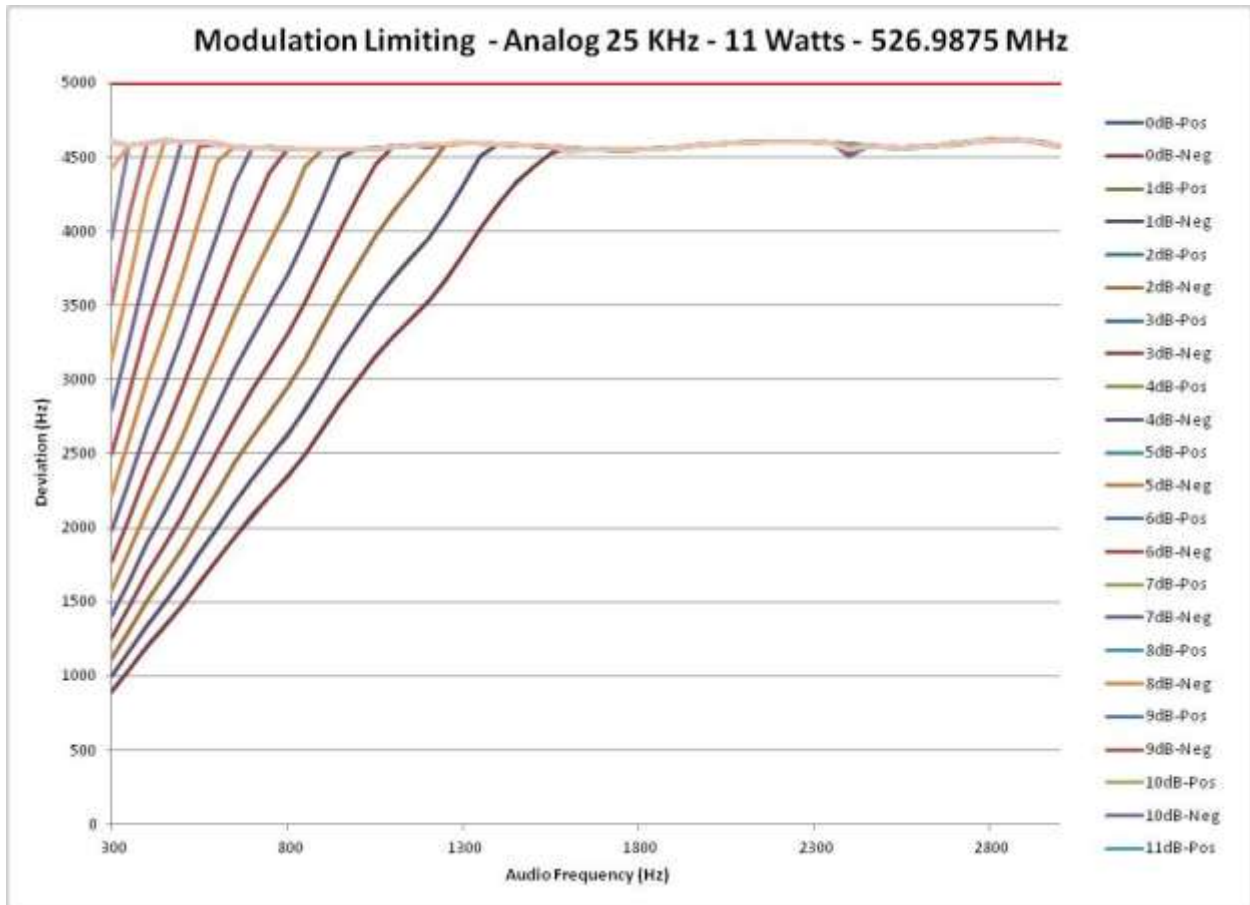
Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-11.6 Audio Modulation Limiting – Modulation Characteristics, 25 kHz Channels – 511.9875 MHz



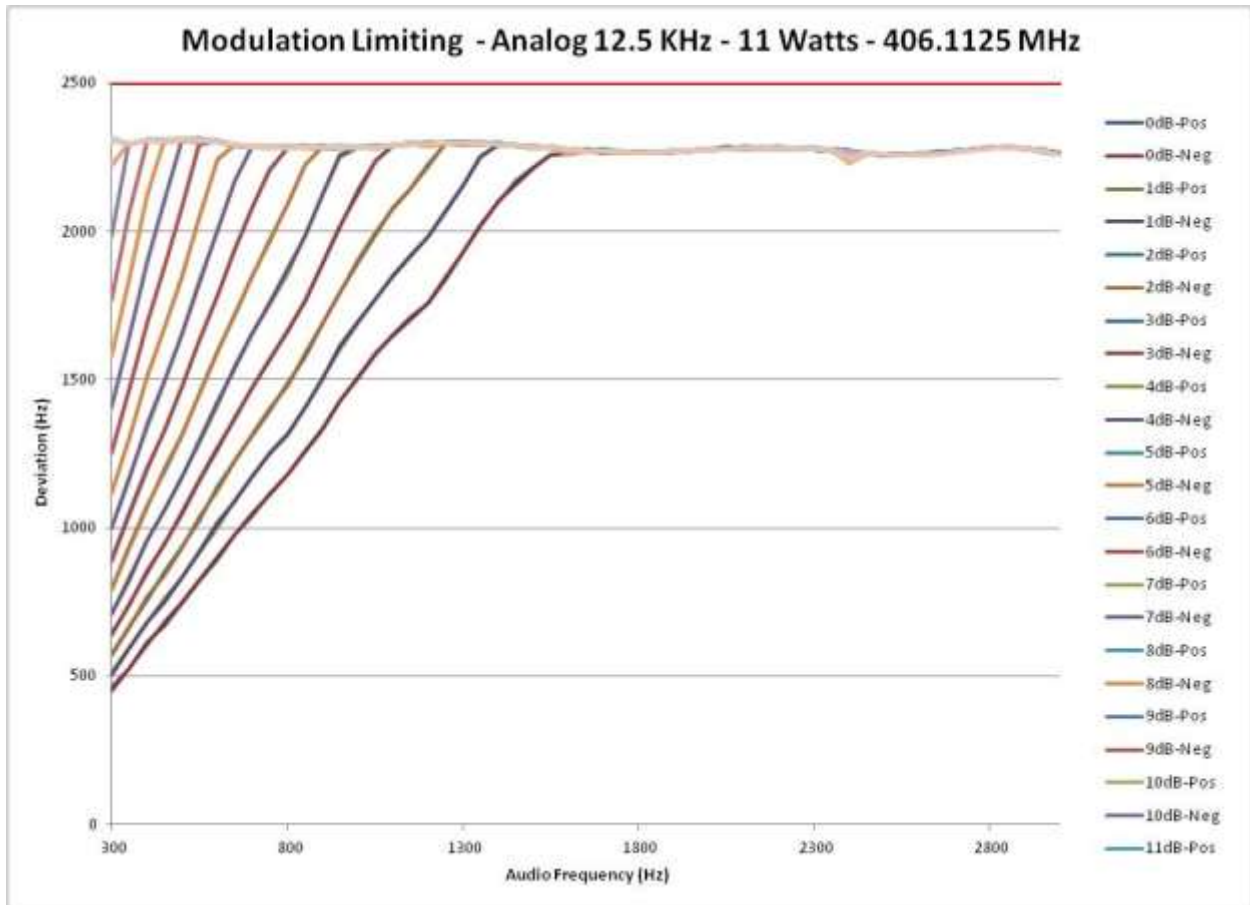
Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-11.7 Audio Modulation Limiting – Modulation Characteristics, 25 kHz Channels – 526.9875 MHz



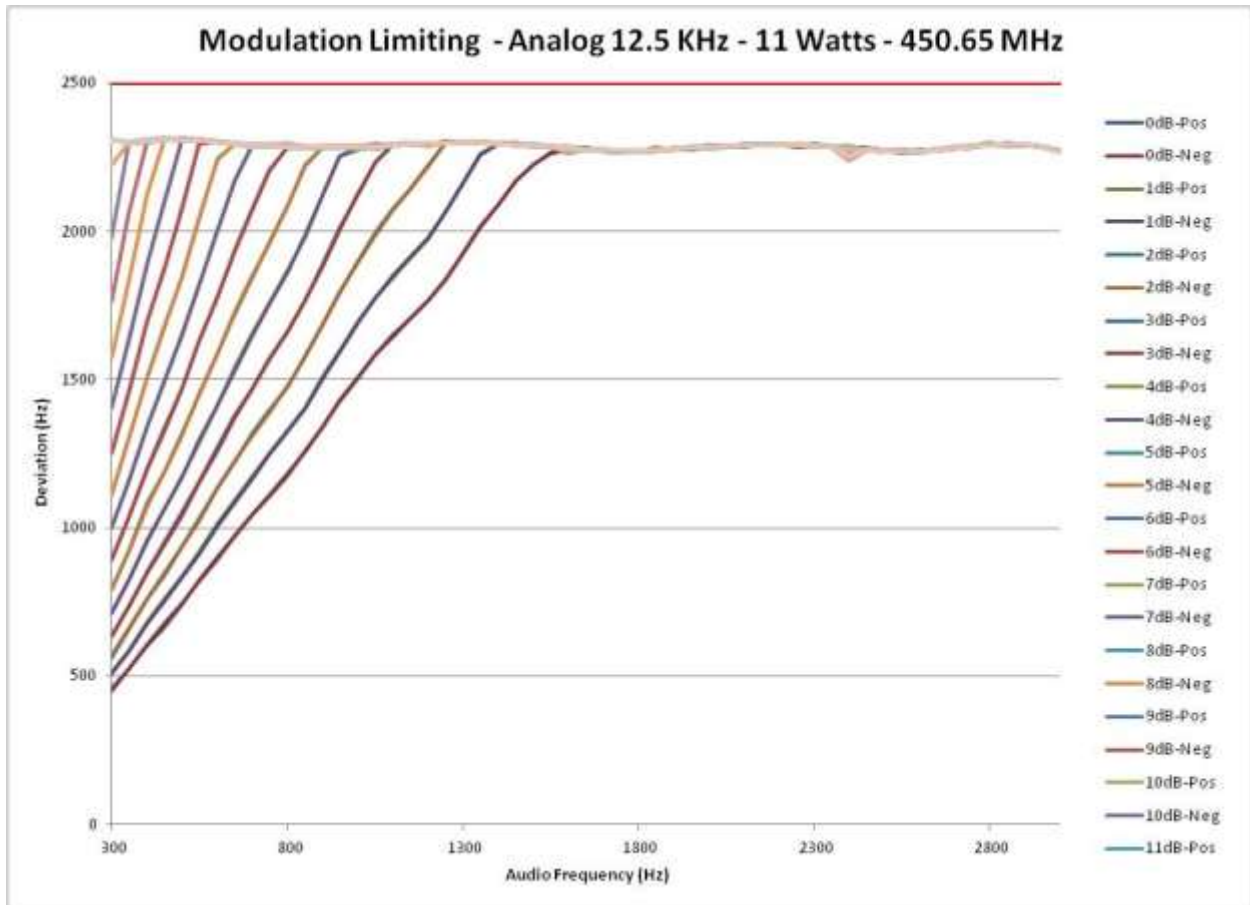
Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-11.8 Audio Modulation Limiting – Modulation Characteristics, 12.5 kHz Channels – 406.1125 MHz



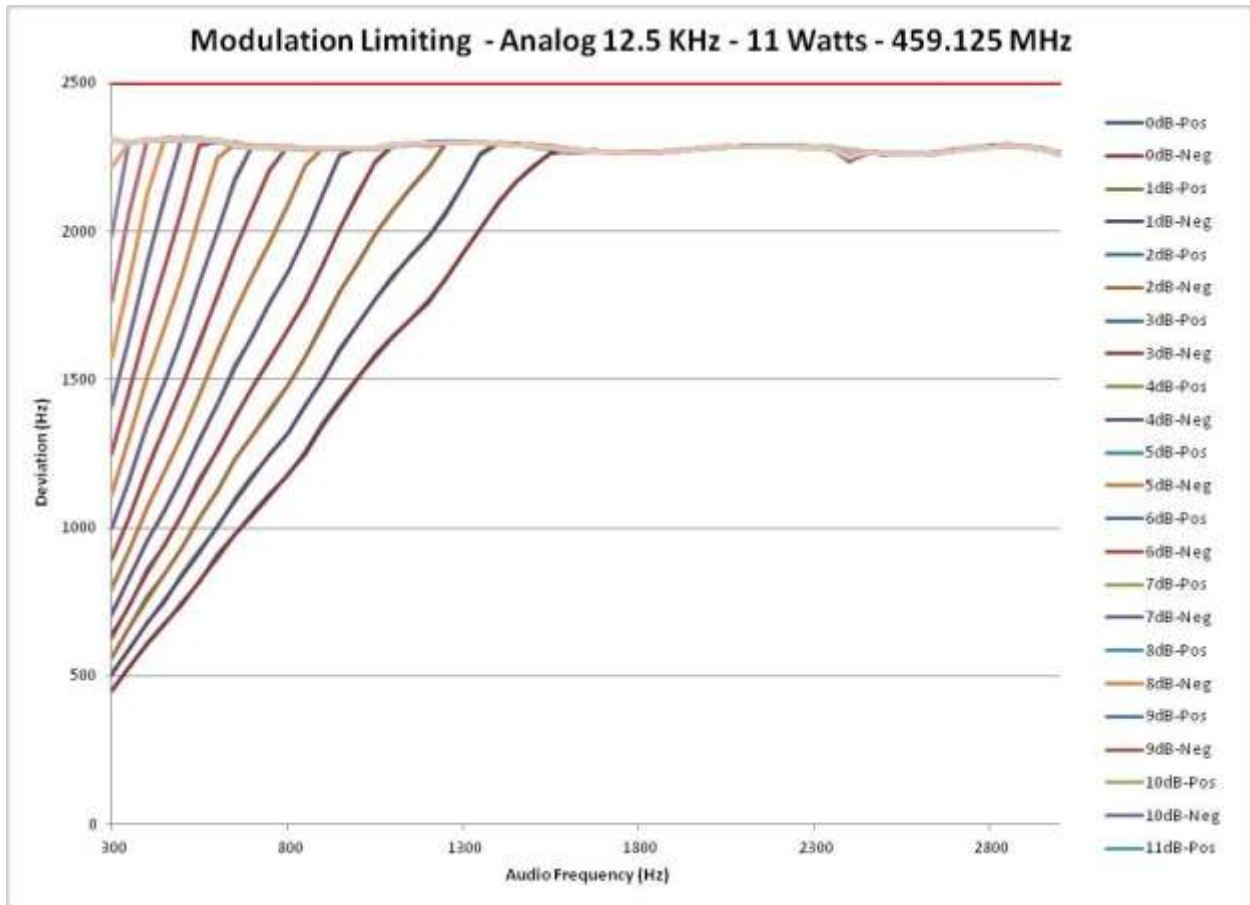
Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-11.9 Audio Modulation Limiting – Modulation Characteristics, 12.5 kHz Channels – 450.6550 MHz



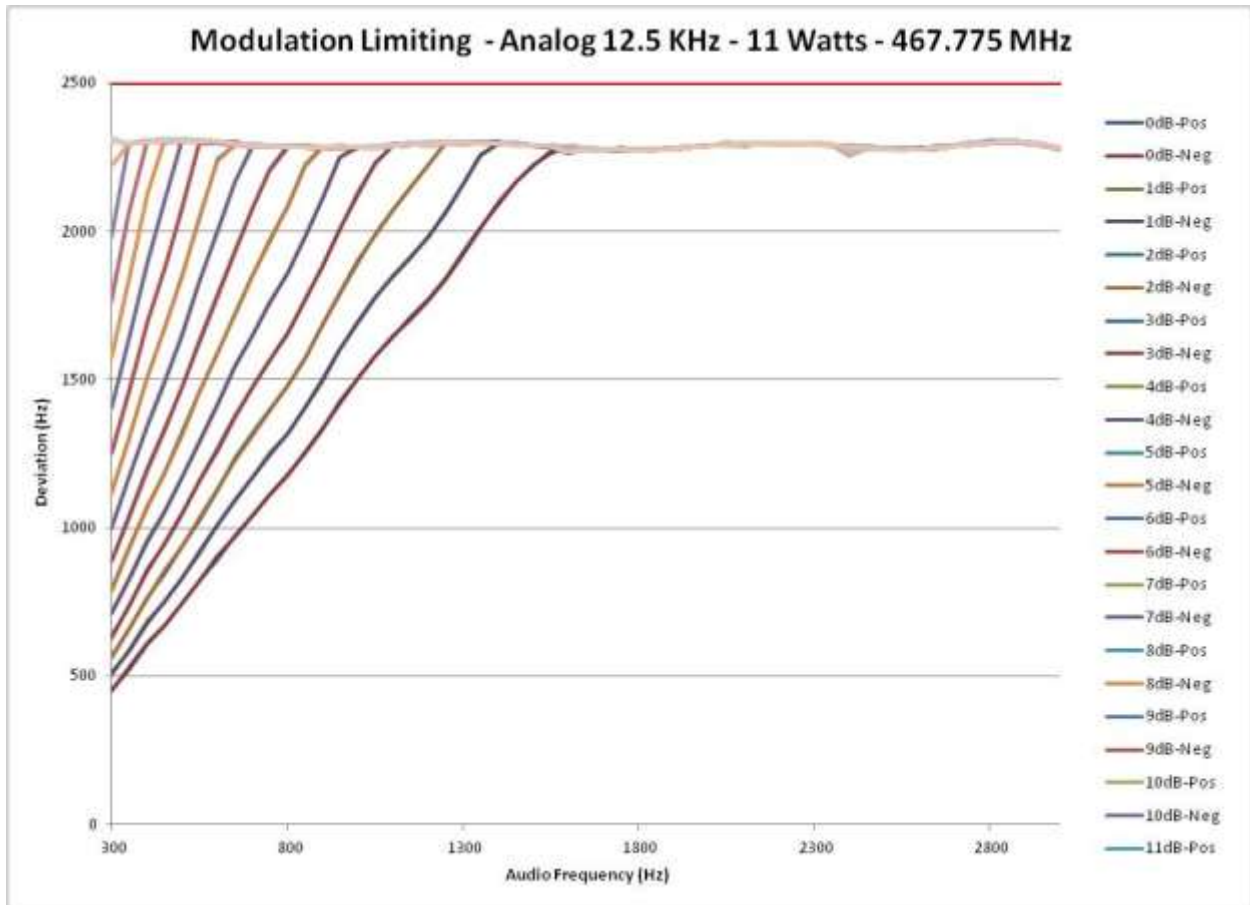
Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-11.10 Audio Modulation Limiting – Modulation Characteristics, 12.5 kHz Channels – 459.125 MHz



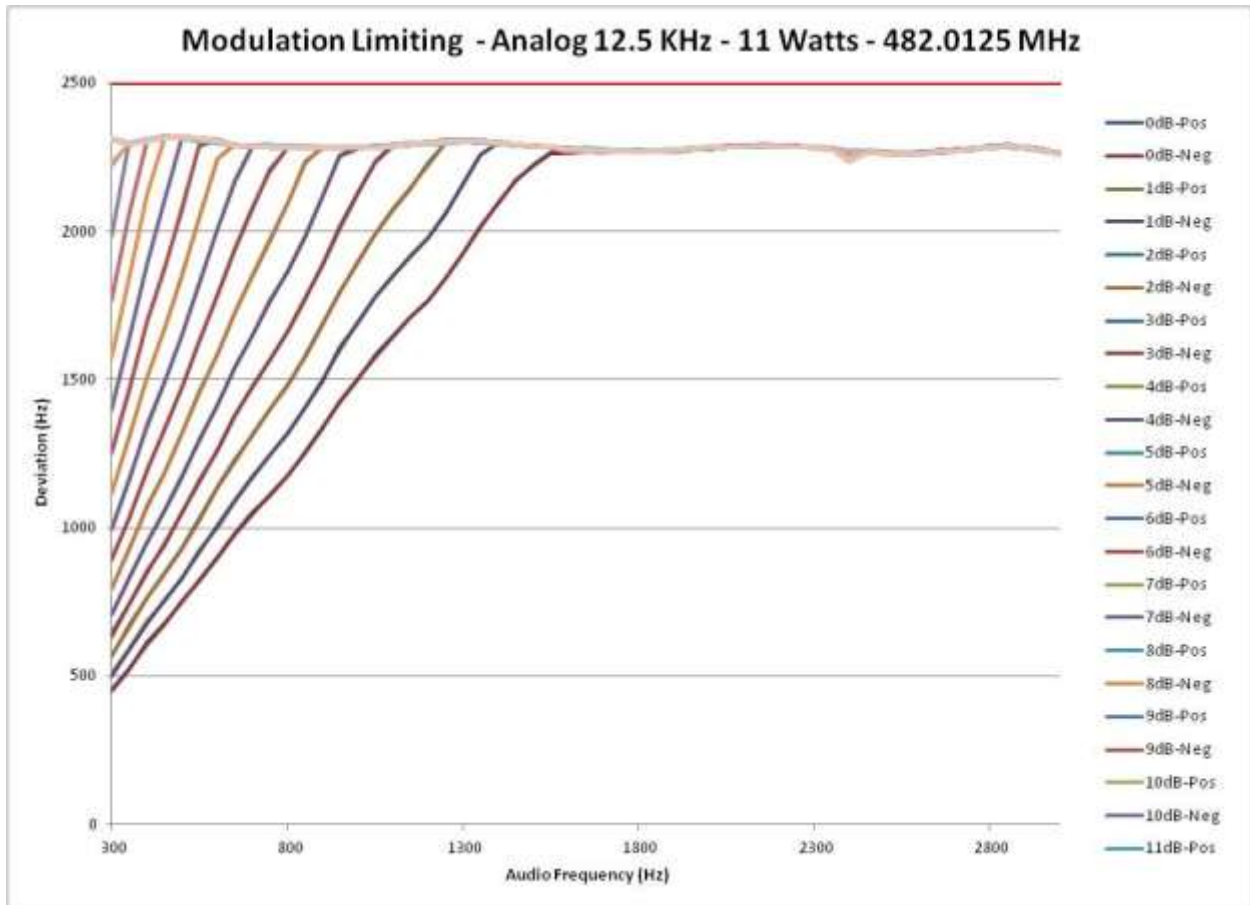
Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-11.11 Audio Modulation Limiting – Modulation Characteristics, 12.5 kHz Channels – 467.775 MHz



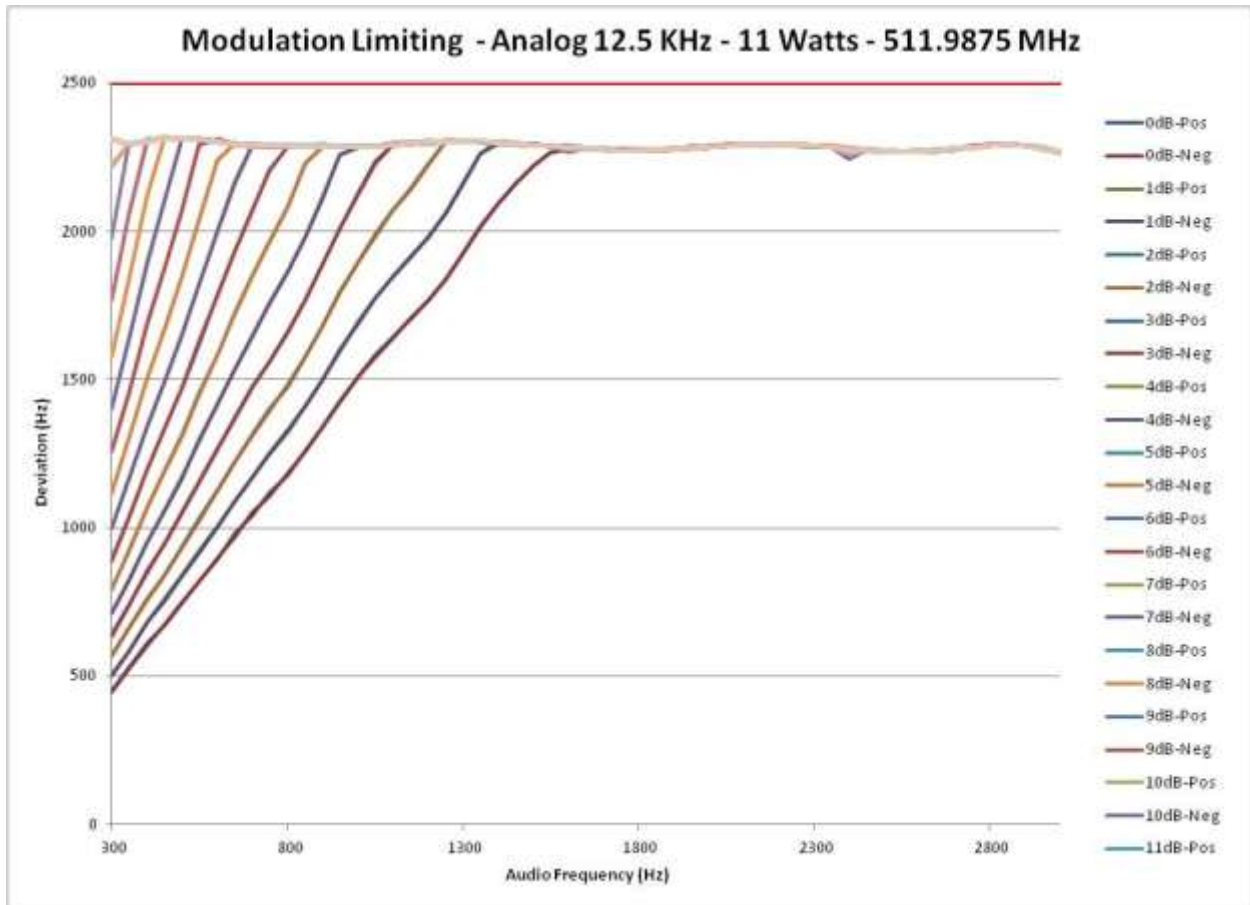
Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-11.12 Audio Modulation Limiting – Modulation Characteristics, 12.5 kHz Channels – 482.0125 MHz



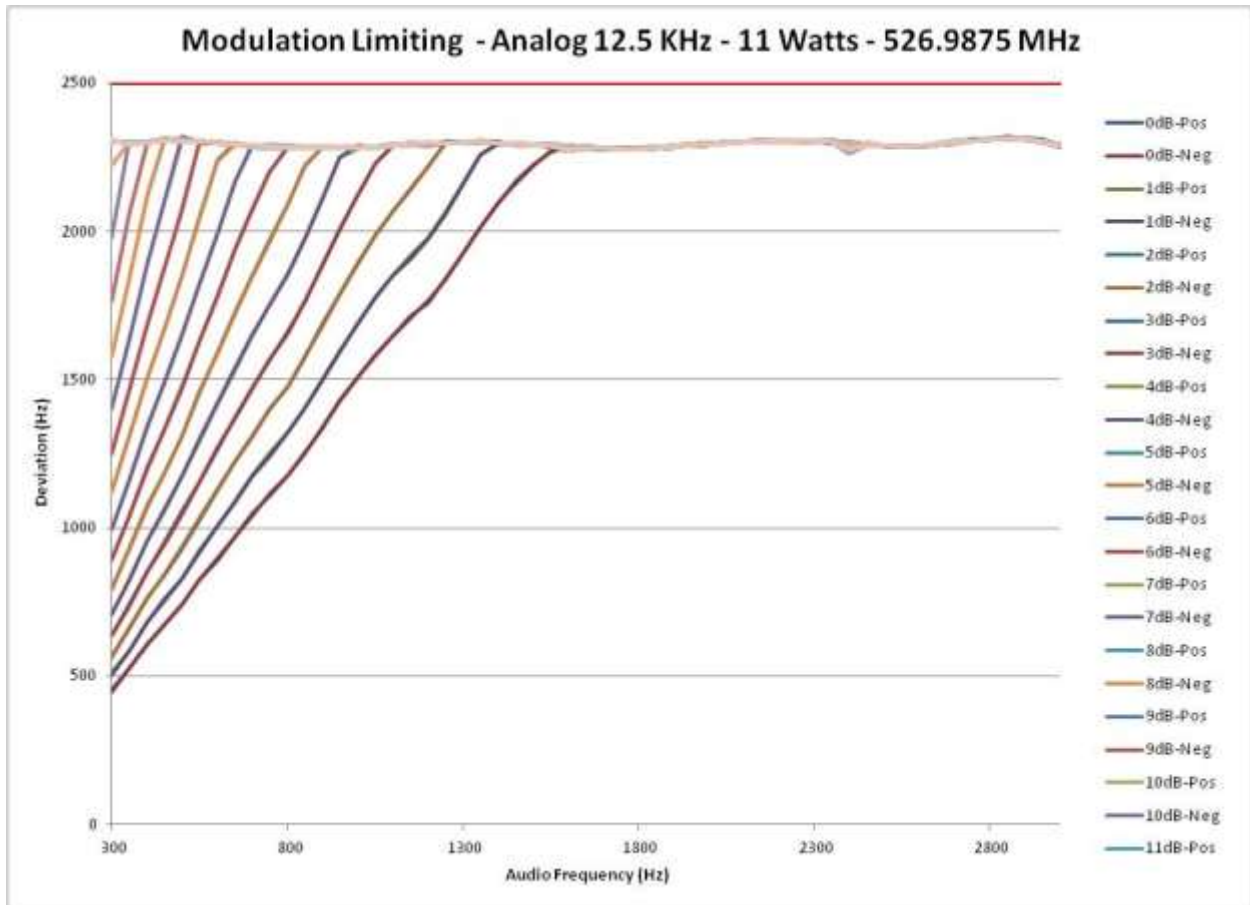
Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-11.13 Audio Modulation Limiting – Modulation Characteristics, 12.5 kHz Channels – 511.9875 MHz



Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

E1-11.14 Audio Modulation Limiting – Modulation Characteristics, 12.5 kHz Channels – 526.9875 MHz



APPLICANT: MOTOROLA SOLUTIONS

EQUIPMENT TYPE: ABZ99FT4100B

109AB-99FT4100B

**Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC
47 CFR 90 and IC RSS-119.**

E1-12 Test Setup Details

Test Location:

(for all tests except radiated emissions)

Motorola Solutions, Inc., Schaumburg Lab

2000 Progress Parkway, Schaumburg, IL 60196

FCC Registration Number 786245

IC CAB Identifier US0220

Test Engineer Matt Nawrocki

(for radiated emissions)

Elite Electronic Engineering Inc.

1516 Centre Circle Dr., Downers Grove, IL 60515

FCC Registration Number 269750

IC Registration Number 2987A

IC CAB Identifier US0107

Test Engineer Mark E. Longinotti

APPLICANT: MOTOROLA SOLUTIONS

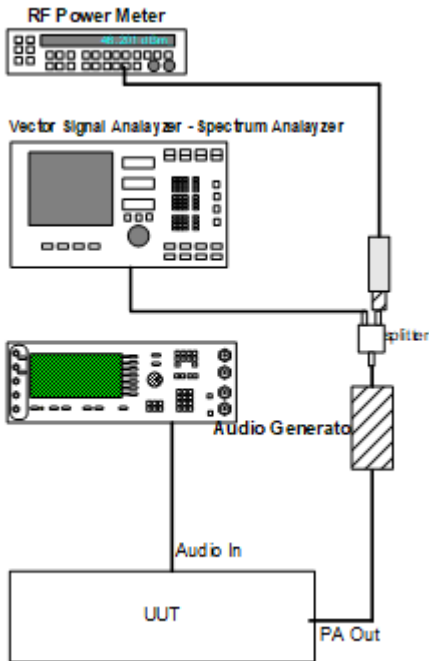
EQUIPMENT TYPE: ABZ99FT4100B

109AB-99FT4100B

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

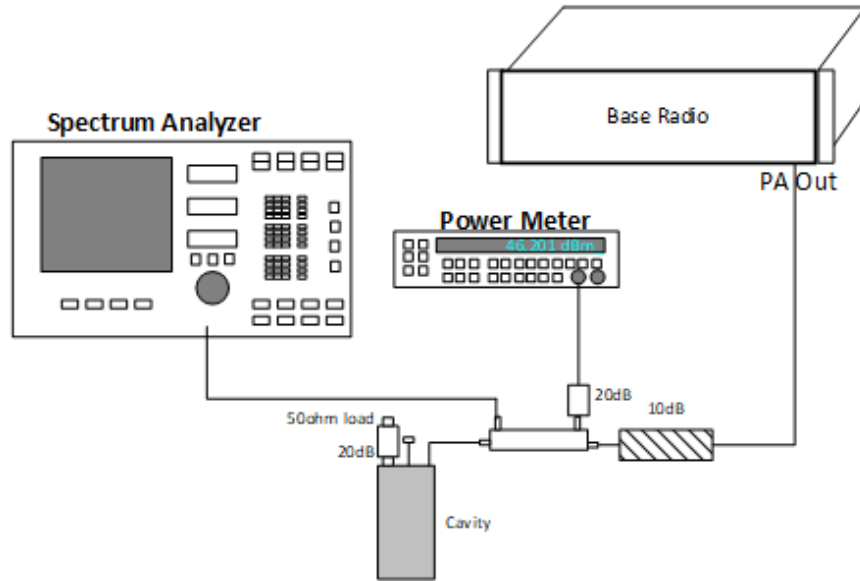
Test Setup: Motorola Solutions

RF Output Power, Occupied Bandwidth, Frequency Stability, Frequency Transient Behavior, Modulation Characteristics



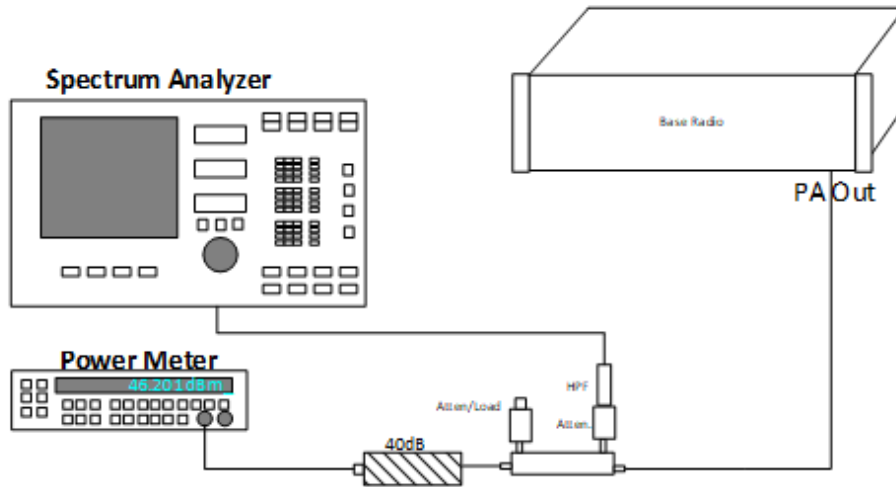
Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

Conducted Spurious Emissions Close-in



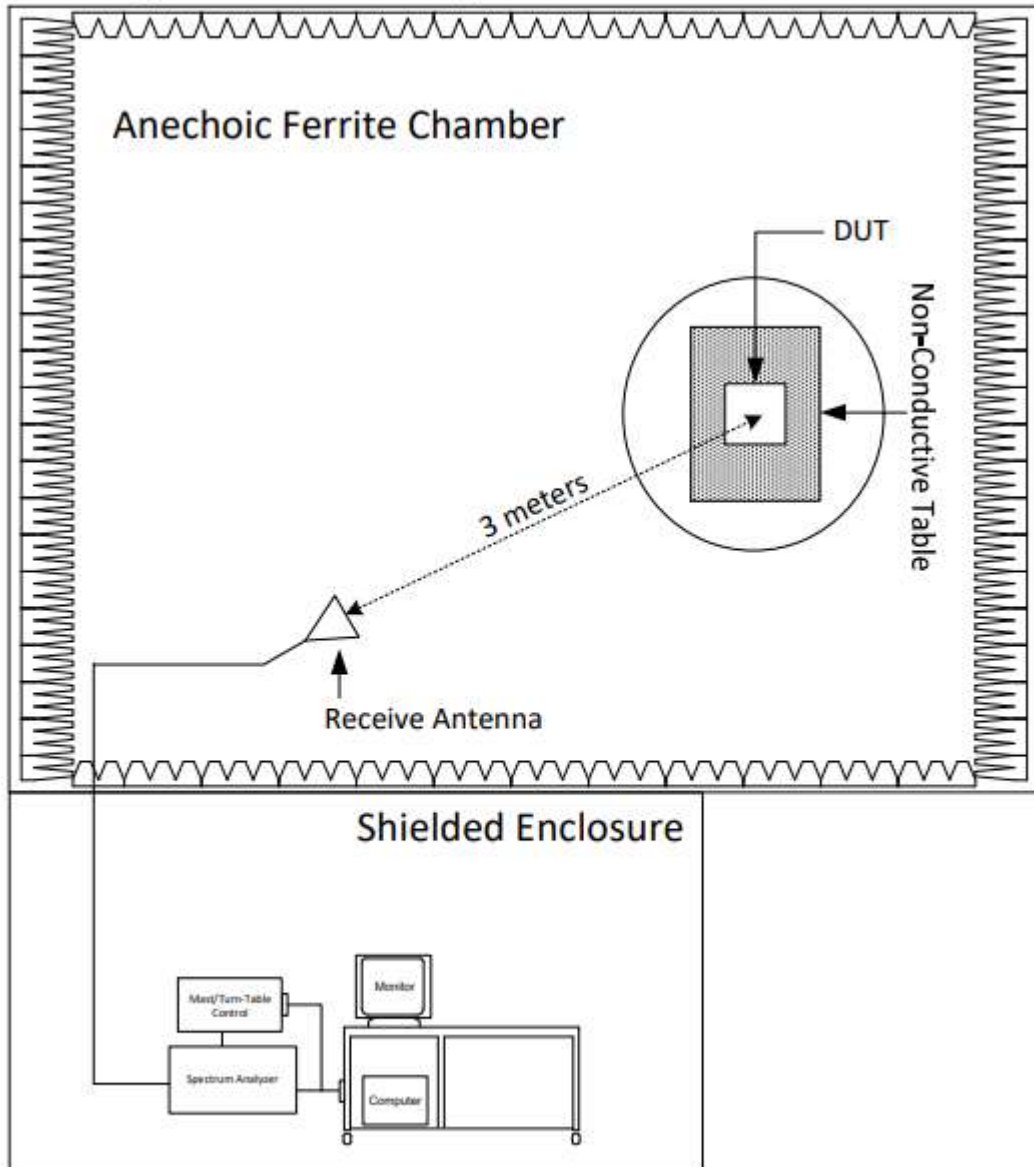
Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

Conducted Harmonic Emissions



Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

Test Setup: Elite Engineering



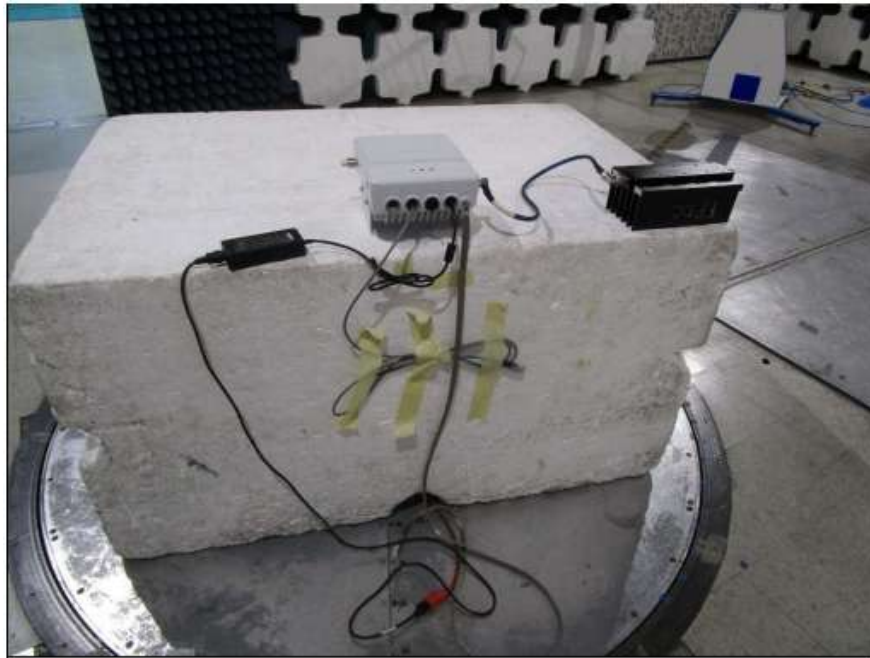
Radiated Measurements Test Setup

APPLICANT: MOTOROLA SOLUTIONS

EQUIPMENT TYPE: ABZ99FT4100B

109AB-99FT4100B

**Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC
47 CFR 90 and IC RSS-119.**



Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.



Test Setup for Spurious Radiated Emissions, 30MHz – 1GHz – Antenna Polarization Horizontal



Test Setup for Spurious Radiated Emissions, 30MHz – 1GHz – Antenna Polarization Vertical

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.



Test Setup for Spurious Radiated Emissions, Above 1GHz – Antenna Polarization Horizontal



Test Setup for Spurious Radiated Emissions, Above 1GHz – Antenna Polarization Vertical

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

Test Equipment List – Motorola Solutions

| Manufacturer | Model | Serial Number | Description | Last Cal | Next Cal |
|---------------------|------------------|---------------|---------------------------------------|------------|------------|
| Keysight/Agilent/HP | N9030A | MY53310751 | PXA Signal Analyzer, 3 Hz to 50 GHz | 09-07-2022 | 09-07-2024 |
| Keysight/Agilent/HP | U8903A | my50500002 | Audio Analyzer, 10 Hz to 100 kHz | 09-04-2022 | 09-04-2023 |
| Rohde & Schwarz | NRP-Z11 | 101590 | Power Sensor | 08-31-2022 | 8-31-2024 |
| Rohde & Schwarz | SMU200A | 101350 | Signal Generator / Power Meter | 12-30-2021 | 12-29-2024 |
| Keysight/Agilent/HP | 34401A | 3146A59752 | Digital Multimeter | 08-29-2022 | 08-29-2026 |
| Keysight/Agilent/HP | 8482a | gg00004032 | Power Sensor | 08-30-2022 | 08-30-2023 |
| Keysight/Agilent/HP | E5071C | MY46316134 | ENA Series Network analyzer | 08-31-2022 | 09-31-2023 |
| Thermotron | WS-120-CHM-15-15 | 52516 | Temperature Chamber | 03-07-2022 | 03-07-2024 |
| Keysight/Agilent/HP | E4440A | my46185813 | PSA Spectrum Analyzer 3 Hz - 26.5 GHz | 09-06-2022 | 09-06-2024 |

APPLICANT: MOTOROLA SOLUTIONS

EQUIPMENT TYPE: ABZ99FT4100B

109AB-99FT4100B

Report on Test Measurements for FCC ID ABZ99FT4100B, HVIN SLR 1000-UHFB per FCC 47 CFR 90 and IC RSS-119.

Test Equipment List – Elite Engineering

| Eq ID | Equipment Description | Manufacturer | Model No. | Serial No. | Frequency Range | Cal Date | Due Date |
|-------|---------------------------------|-----------------|--------------------------|------------|-----------------|------------|------------|
| CDZ4 | LAB WORKSTATION | ELITE | LWS-10 | | WINDOWS 10 | CNR | |
| GSE3 | SIGNAL GENERATOR (40GHZ) | ROHDE & SCHWARZ | SMB100A | 183294 | 100KHZ-40GHZ | 1/30/2023 | 1/30/2024 |
| NDQ1 | TUNED DIPOLE ANTENNA | EMCO | 3121C-DB4 | 313 | 400-1000MHZ | 9/14/2022 | 9/14/2024 |
| NTA4 | BILOG ANTENNA | TESEQ | 6112D | 46660 | 20-2000GHZ | 10/26/2022 | 10/26/2024 |
| NWQ0 | DOUBLE RIDGED WAVEGUIDE ANTENNA | ETS LINDGREN | 3117 | 66657 | 1GHZ-18GHZ | 6/13/2022 | 6/13/2023 |
| NWQ1 | DOUBLE RIDGED WAVEGUIDE ANTENNA | ETS-LINDGREN | 3117 | 66655 | 1GHZ-18GHZ | 5/26/2022 | 5/26/2024 |
| RBG3 | EMI ANALYZER | ROHDE & SCHWARZ | ESW44 | 101592 | 2HZ-44GHZ | 4/7/2022 | 5/7/2023 |
| VBV2 | CISPR EN FCC ICES RE.EXE | ELITE | CISPR EN FCC ICES RE.EXE | --- | --- | N/A | |
| WKA1 | SOFTWARE, UNIVERSAL RCV EMI | ELITE | UNIV_RCV_EMI | 1 | --- | I/O | |

N/A: Not Applicable

I/O: Initial Only

CNR: Calibration Not Required

NOTE 1: For the purpose of this test, the equipment was calibrated over the specified frequency range, pulse rate, or modulation prior to the test or monitored by a calibrated instrument.

APPLICANT: MOTOROLA SOLUTIONS

EQUIPMENT TYPE: ABZ99FT4100B

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47 CFR 90 and IC RSS-119.**

E1-13 Statement of Certification

The technical data supplied with this application, having been taken under my supervision is hereby duly certified. The following is a statement of my qualifications:

College Degree: BSEE, Northern Illinois University, Illinois, USA

23 years of Development and Test experience in the field of two-way radio communication.

NAME: Matt Nawrocki



SIGNATURE: _____

DATE: 5/01/23

POSITION: Principal Staff Engineer

I hereby certify that the above application was prepared under my direction and that to the best of my knowledge and belief, the facts set forth in the application and accompanying technical data are true and correct:

NAME: Robert Sarocka



SIGNATURE: _____

DATE: 5/01/23

POSITION: Technical Manager

REPORT END