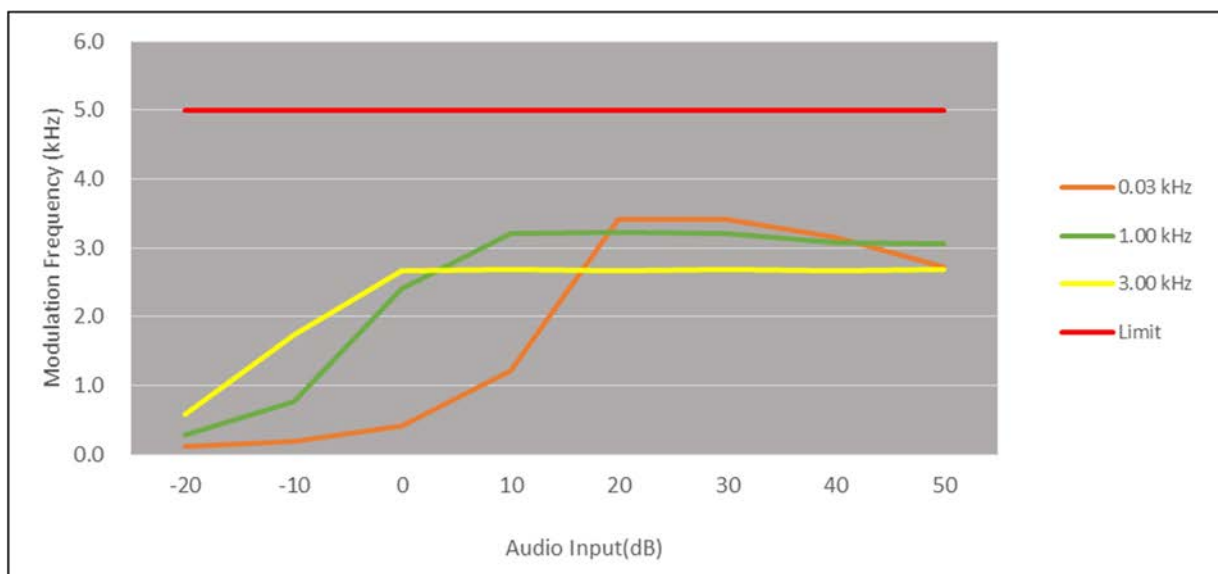
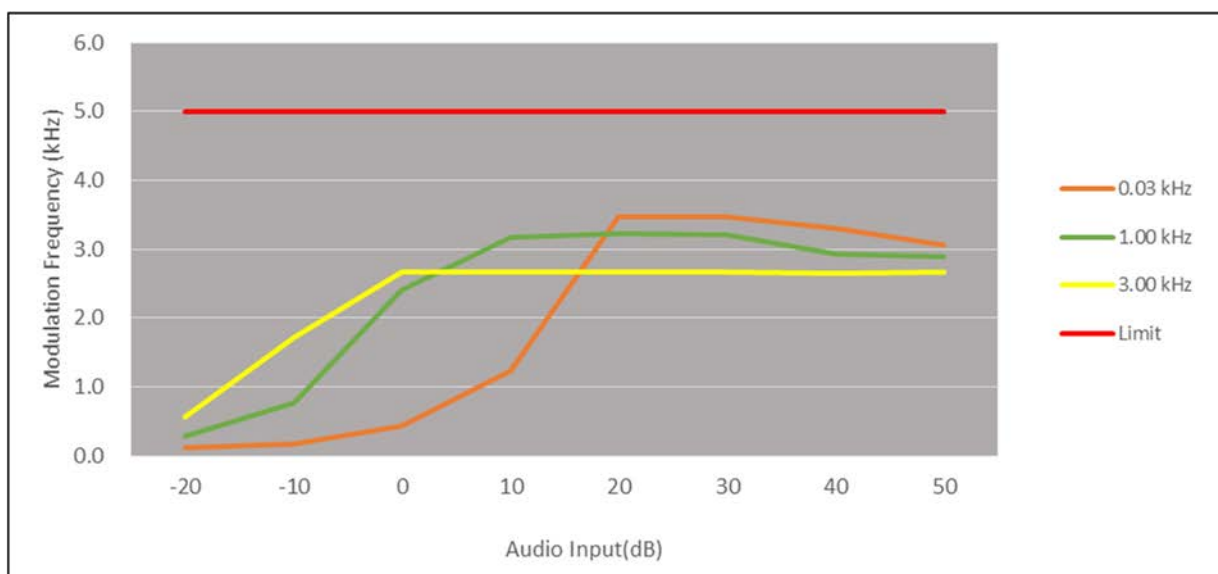


868.95 MHz

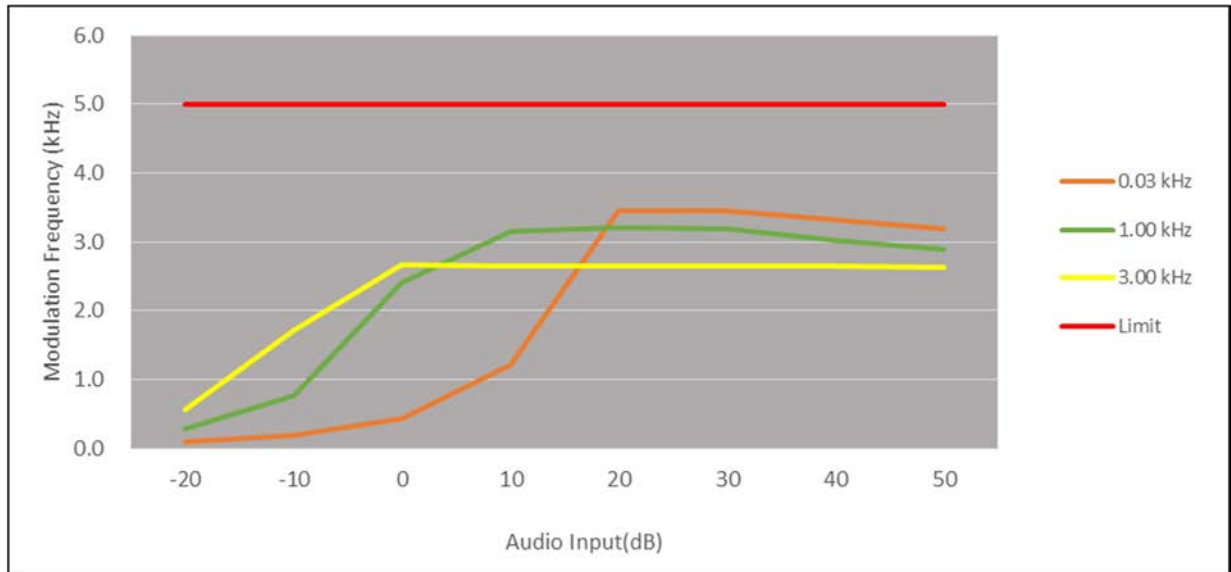


Negative Peaks

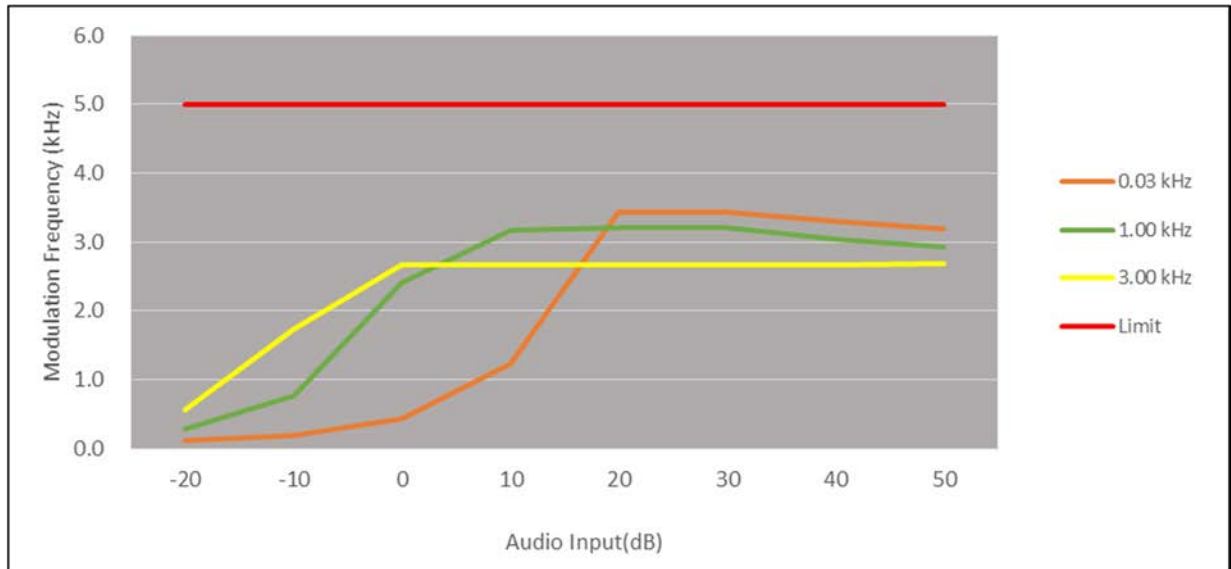
851.05 MHz



860.05 MHz



868.95 MHz

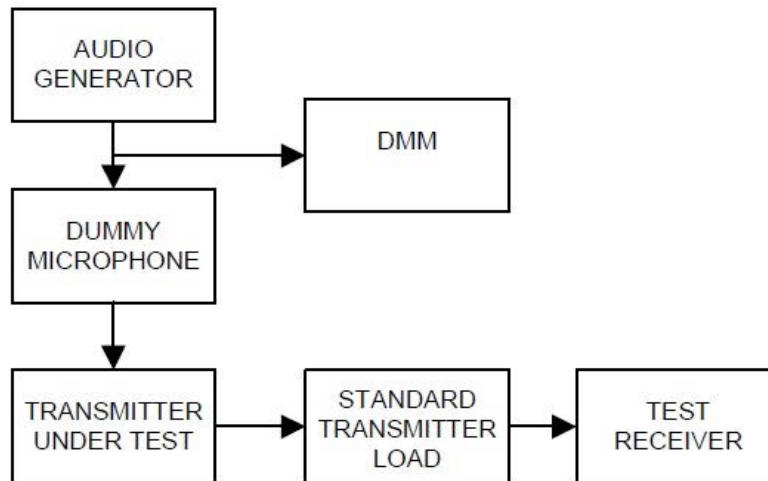


## 8.5 Audio Frequency Response / Audio Low Pass Filter Response

### Definition

The audio frequency response is the degree of closeness to which the frequency deviation of the transmitter follows a prescribed characteristic.

### TEST CONFIGURATION



### TEST PROCEDURE

According to 2.2.6 in TIA-603-E Standard.

- Connect the equipment as illustrated.
- Set the test receiver to measure peak positive deviation. Set the audio bandwidth for  $\leq 50$  Hz to  $\geq 15,000$  Hz. Turn the de-emphasis function off.
- Set the DMM to measure rms voltage.
- Adjust the transmitter per the manufacturer's procedure for full rated system deviation.
- Apply a 1000 Hz tone and adjust the audio frequency generator to produce 20% of the rated system deviation.
- Set the test receiver to measure rms deviation and record the deviation reading.
- Record the DMM reading as  $V_{REF}$ .
- Set the audio frequency generator to the desired test frequency between 300 Hz and 3000 Hz.
- Vary the audio frequency generator output level until the deviation reading that was recorded in step f) is obtained.
- Record the DMM reading as  $V_{FREQ}$ .
- Calculate the audio frequency response at the present frequency as:  

$$\text{audio frequency response} = 20 * \log_{10}(V_{FREQ}/V_{REF})$$
- Repeat steps h) through k) for all the desired test frequencies.

### Note

Audio Filter of the above result is substituted with the same structure as Audio Frequency Response.

On the transmission condition below 3kHz, Transceiver shows pre-emphasis condition of transmission function.

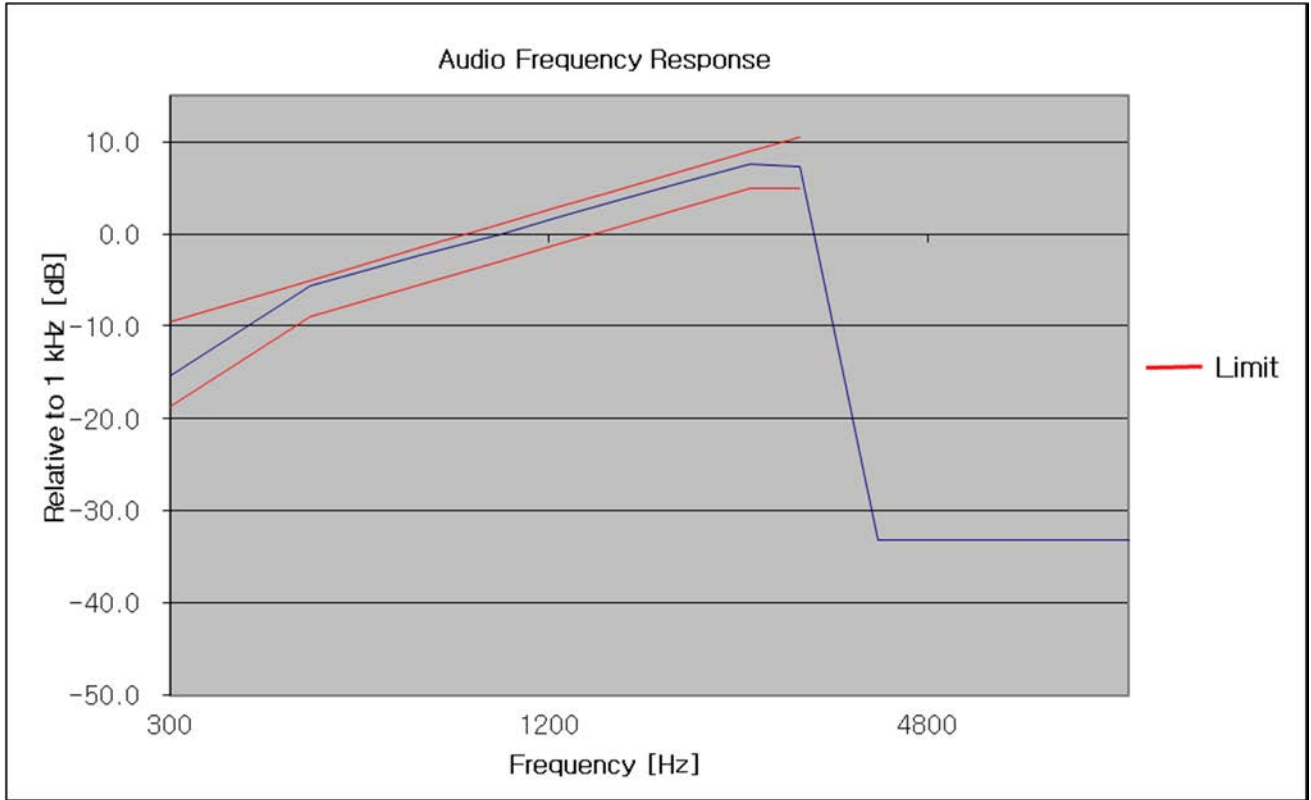
On the transmission condition above 3kHz, Transceiver shows Audio Low Pass Filter.

#### ■ TEST RESULTS

16K0F3E\_HIGH POWER

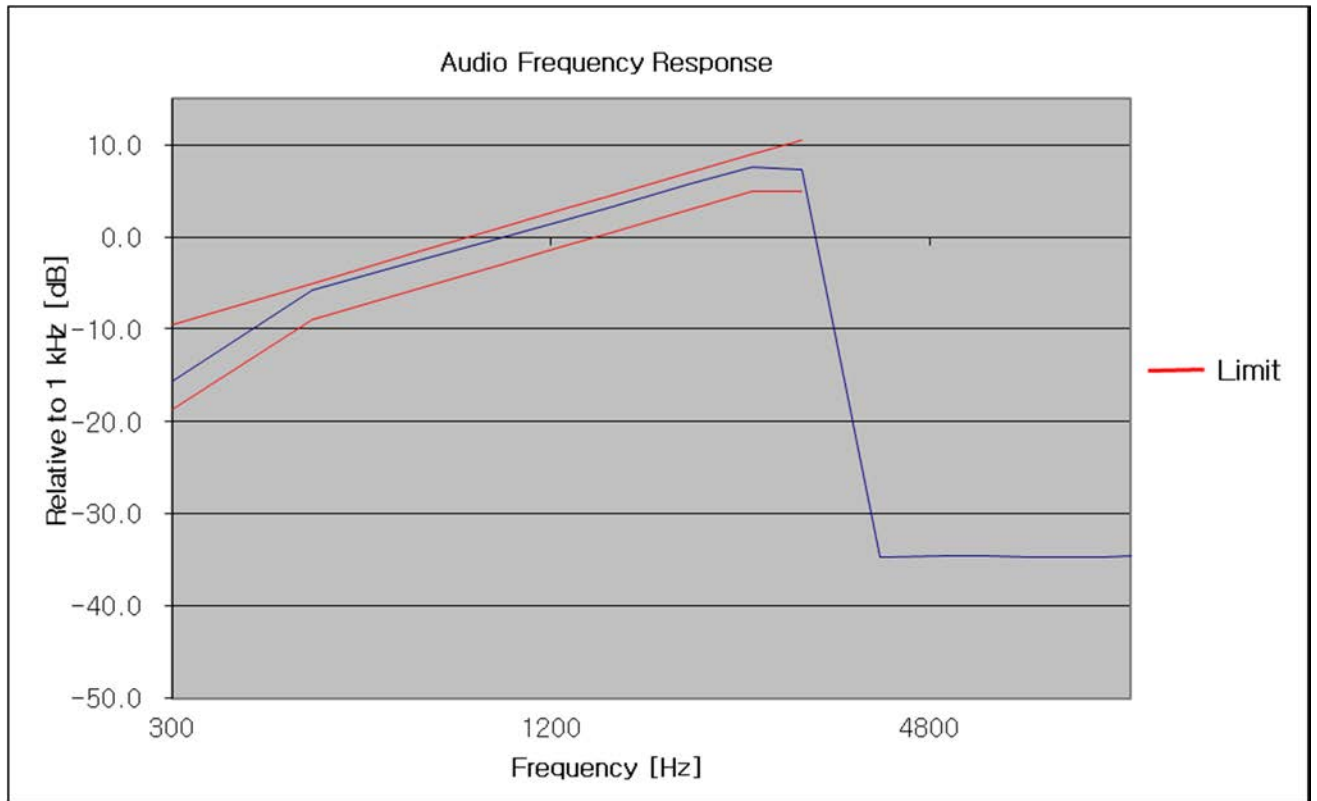
138.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.34                           | -9.46            | -18.69           |
| 500            | -5.63                            | -5.02            | -9.02            |
| 750            | -2.33                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.87                             | 2.94             | -1.06            |
| 1500           | 3.41                             | 4.52             | 0.52             |
| 2000           | 5.85                             | 7.02             | 3.02             |
| 2500           | 7.62                             | 8.96             | 4.96             |
| 3000           | 7.37                             | 10.54            | 4.96             |
| 4000           | -33.11                           | -                | -                |
| 5000           | -33.19                           | -                | -                |
| 6000           | -33.23                           | -                | -                |
| 7000           | -33.19                           | -                | -                |
| 8000           | -33.19                           | -                | -                |
| 9000           | -33.23                           | -                | -                |
| 10000          | -33.11                           | -                | -                |
| 20000          | -33.23                           | -                | -                |
| 30000          | -33.23                           | -                | -                |
| 40000          | -33.11                           | -                | -                |



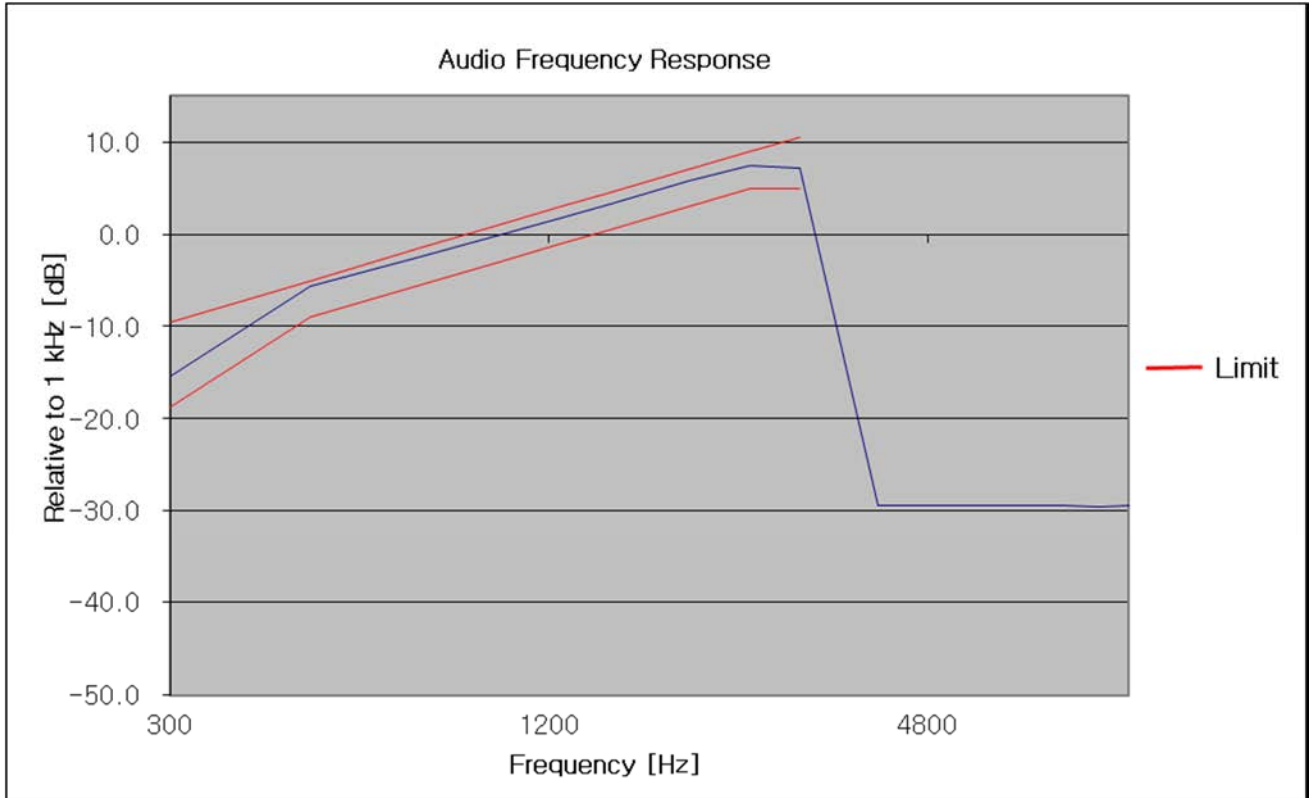
150.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.63                           | -9.46            | -18.69           |
| 500            | -5.73                            | -5.02            | -9.02            |
| 750            | -2.39                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.82                             | 2.94             | -1.06            |
| 1500           | 3.35                             | 4.52             | 0.52             |
| 2000           | 5.78                             | 7.02             | 3.02             |
| 2500           | 7.54                             | 8.96             | 4.96             |
| 3000           | 7.29                             | 10.54            | 4.96             |
| 4000           | -34.66                           | -                | -                |
| 5000           | -34.52                           | -                | -                |
| 6000           | -34.52                           | -                | -                |
| 7000           | -34.66                           | -                | -                |
| 8000           | -34.66                           | -                | -                |
| 9000           | -34.66                           | -                | -                |
| 10000          | -34.56                           | -                | -                |
| 20000          | -34.52                           | -                | -                |
| 30000          | -34.56                           | -                | -                |
| 40000          | -34.52                           | -                | -                |



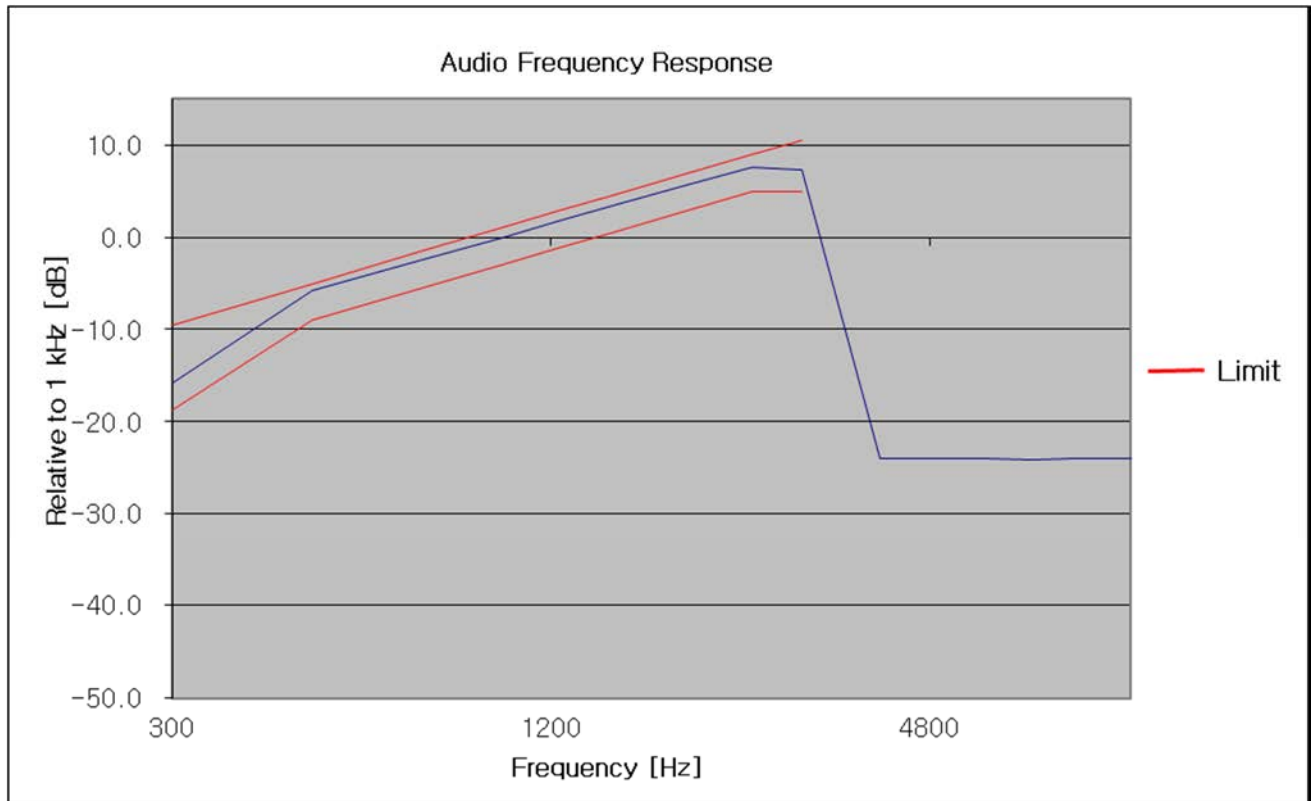
173.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.32                           | -9.46            | -18.69           |
| 500            | -5.60                            | -5.02            | -9.02            |
| 750            | -2.36                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.79                             | 2.94             | -1.06            |
| 1500           | 3.31                             | 4.52             | 0.52             |
| 2000           | 5.72                             | 7.02             | 3.02             |
| 2500           | 7.48                             | 8.96             | 4.96             |
| 3000           | 7.24                             | 10.54            | 4.96             |
| 4000           | -29.34                           | -                | -                |
| 5000           | -29.45                           | -                | -                |
| 6000           | -29.42                           | -                | -                |
| 7000           | -29.45                           | -                | -                |
| 8000           | -29.45                           | -                | -                |
| 9000           | -29.50                           | -                | -                |
| 10000          | -29.42                           | -                | -                |
| 20000          | -29.42                           | -                | -                |
| 30000          | -29.52                           | -                | -                |
| 40000          | -29.37                           | -                | -                |



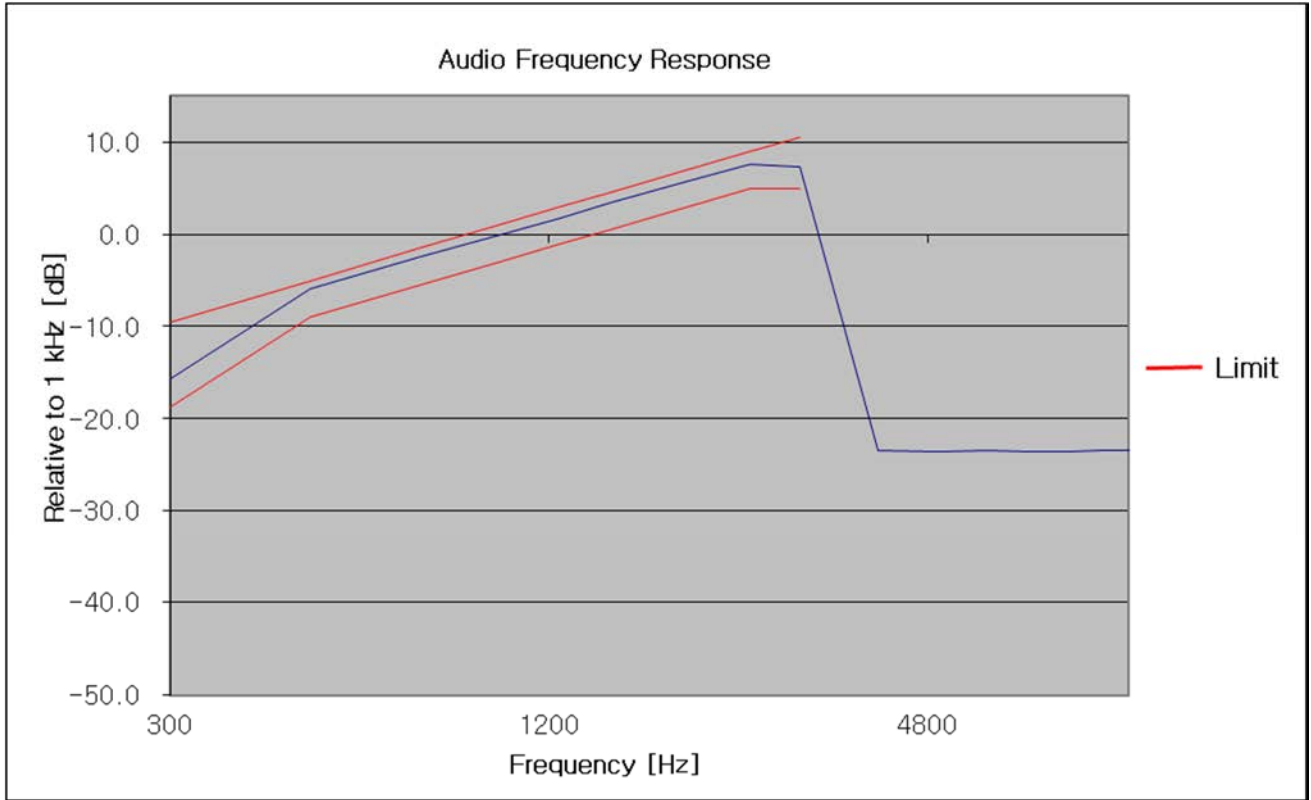
406.15 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.71                           | -9.46            | -18.69           |
| 500            | -5.73                            | -5.02            | -9.02            |
| 750            | -2.36                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.83                             | 2.94             | -1.06            |
| 1500           | 3.38                             | 4.52             | 0.52             |
| 2000           | 5.79                             | 7.02             | 3.02             |
| 2500           | 7.56                             | 8.96             | 4.96             |
| 3000           | 7.30                             | 10.54            | 4.96             |
| 4000           | -23.98                           | -                | -                |
| 5000           | -23.98                           | -                | -                |
| 6000           | -24.00                           | -                | -                |
| 7000           | -24.11                           | -                | -                |
| 8000           | -23.93                           | -                | -                |
| 9000           | -24.02                           | -                | -                |
| 10000          | -23.97                           | -                | -                |
| 20000          | -24.00                           | -                | -                |
| 30000          | -23.97                           | -                | -                |
| 40000          | -23.86                           | -                | -                |



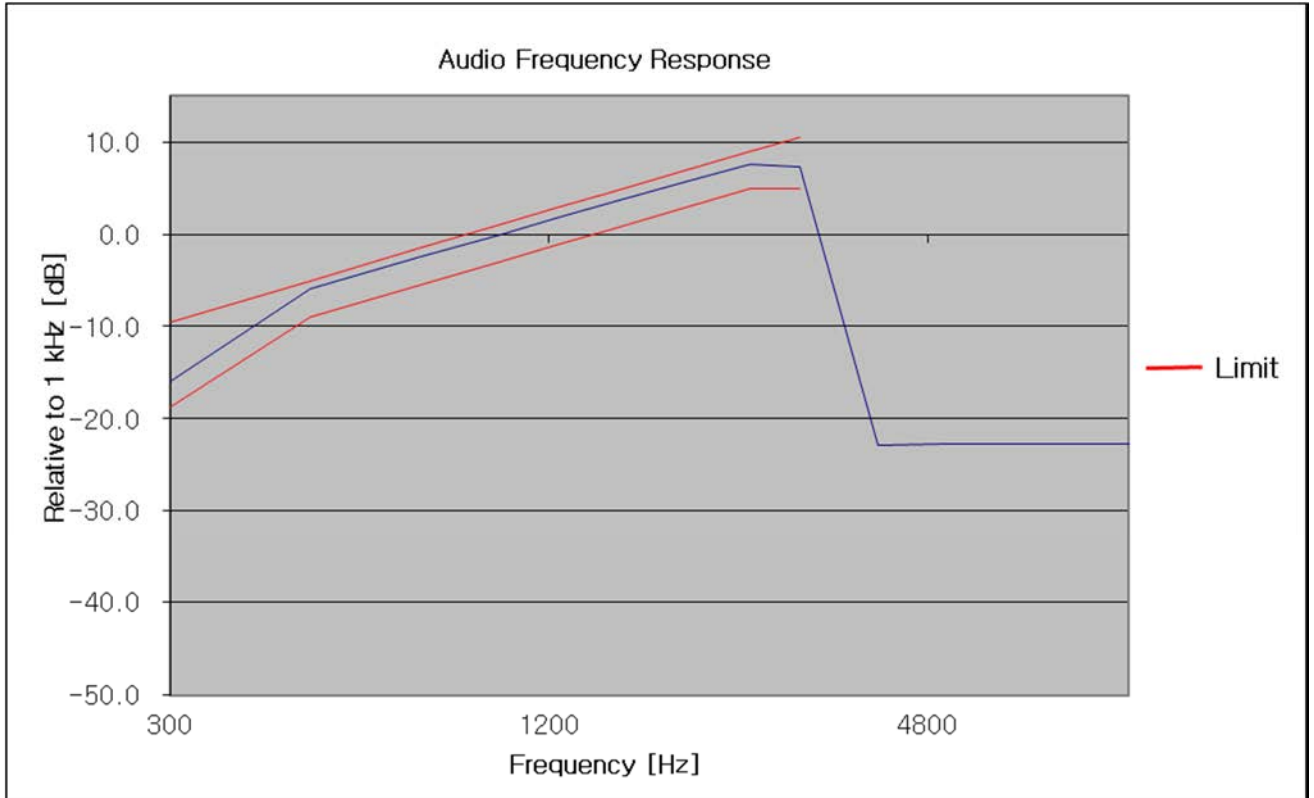
429.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.67                           | -9.46            | -18.69           |
| 500            | -5.83                            | -5.02            | -9.02            |
| 750            | -2.46                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.82                             | 2.94             | -1.06            |
| 1500           | 3.38                             | 4.52             | 0.52             |
| 2000           | 5.83                             | 7.02             | 3.02             |
| 2500           | 7.60                             | 8.96             | 4.96             |
| 3000           | 7.36                             | 10.54            | 4.96             |
| 4000           | -23.44                           | -                | -                |
| 5000           | -23.52                           | -                | -                |
| 6000           | -23.43                           | -                | -                |
| 7000           | -23.52                           | -                | -                |
| 8000           | -23.50                           | -                | -                |
| 9000           | -23.46                           | -                | -                |
| 10000          | -23.43                           | -                | -                |
| 20000          | -23.44                           | -                | -                |
| 30000          | -23.46                           | -                | -                |
| 40000          | -23.52                           | -                | -                |



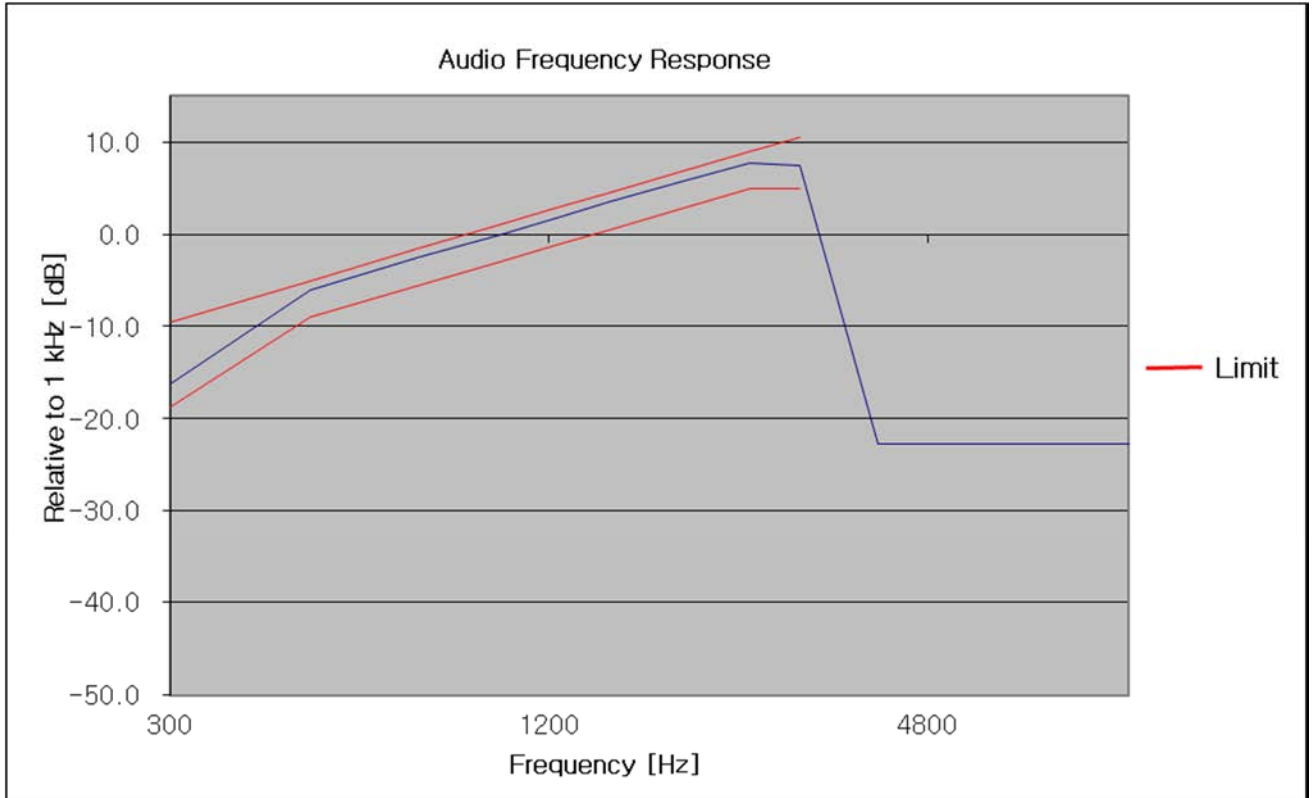
469.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.94                           | -9.46            | -18.69           |
| 500            | -5.92                            | -5.02            | -9.02            |
| 750            | -2.45                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.85                             | 2.94             | -1.06            |
| 1500           | 3.40                             | 4.52             | 0.52             |
| 2000           | 5.85                             | 7.02             | 3.02             |
| 2500           | 7.62                             | 8.96             | 4.96             |
| 3000           | 7.38                             | 10.54            | 4.96             |
| 4000           | -22.82                           | -                | -                |
| 5000           | -22.70                           | -                | -                |
| 6000           | -22.77                           | -                | -                |
| 7000           | -22.66                           | -                | -                |
| 8000           | -22.73                           | -                | -                |
| 9000           | -22.78                           | -                | -                |
| 10000          | -22.71                           | -                | -                |
| 20000          | -22.71                           | -                | -                |
| 30000          | -22.77                           | -                | -                |
| 40000          | -22.79                           | -                | -                |



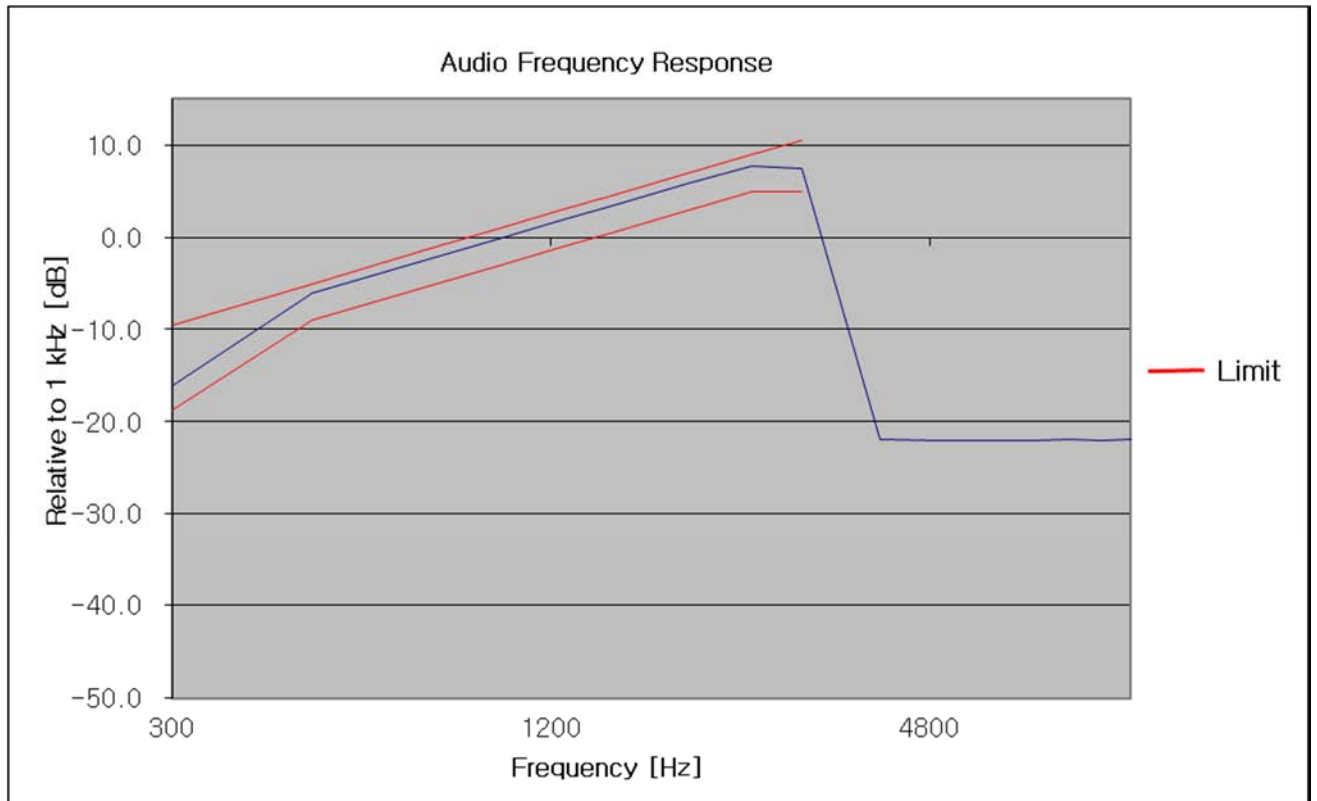
470.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -16.16                           | -9.46            | -18.69           |
| 500            | -6.00                            | -5.02            | -9.02            |
| 750            | -2.44                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.93                             | 2.94             | -1.06            |
| 1500           | 3.50                             | 4.52             | 0.52             |
| 2000           | 5.96                             | 7.02             | 3.02             |
| 2500           | 7.74                             | 8.96             | 4.96             |
| 3000           | 7.50                             | 10.54            | 4.96             |
| 4000           | -22.69                           | -                | -                |
| 5000           | -22.76                           | -                | -                |
| 6000           | -22.77                           | -                | -                |
| 7000           | -22.77                           | -                | -                |
| 8000           | -22.77                           | -                | -                |
| 9000           | -22.76                           | -                | -                |
| 10000          | -22.79                           | -                | -                |
| 20000          | -22.71                           | -                | -                |
| 30000          | -22.72                           | -                | -                |
| 40000          | -22.77                           | -                | -                |



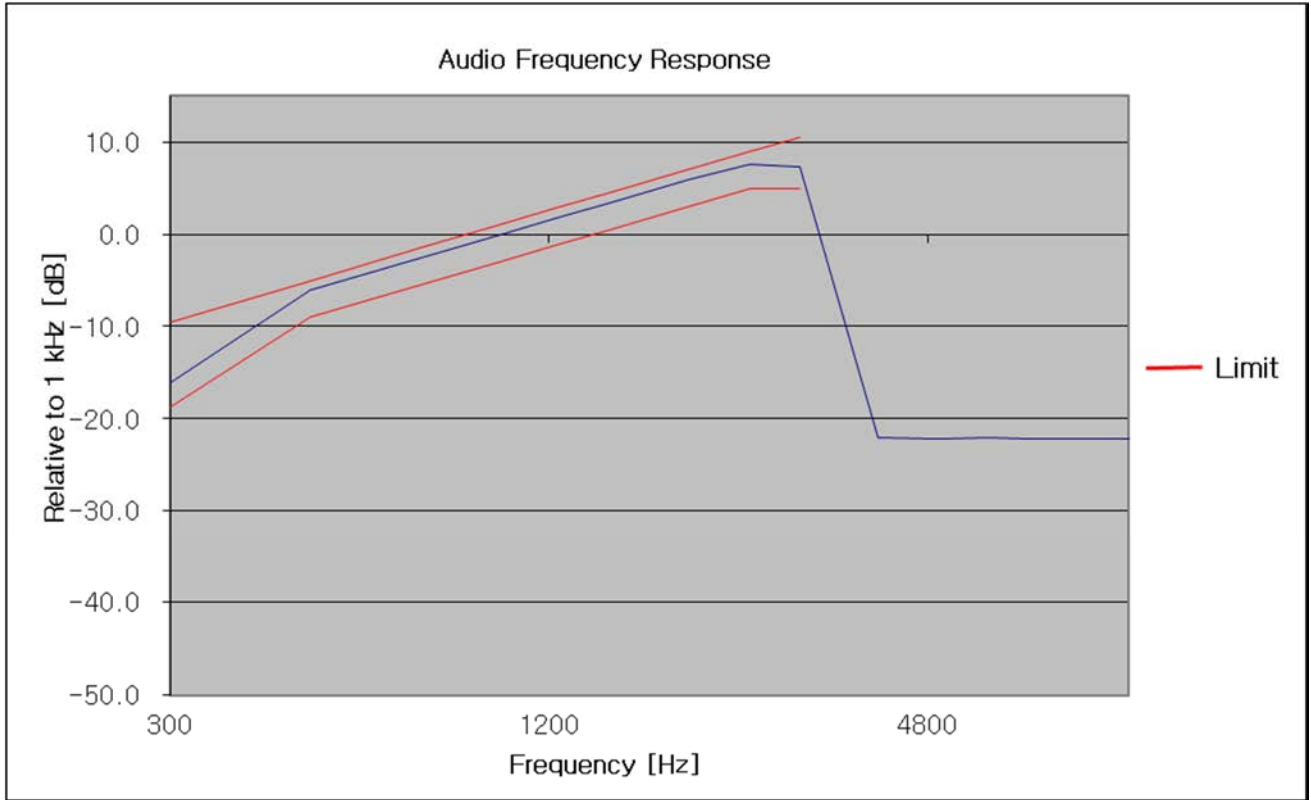
## 491.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -16.04                           | -9.46            | -18.69           |
| 500            | -6.05                            | -5.02            | -9.02            |
| 750            | -2.50                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.87                             | 2.94             | -1.06            |
| 1500           | 3.45                             | 4.52             | 0.52             |
| 2000           | 5.92                             | 7.02             | 3.02             |
| 2500           | 7.70                             | 8.96             | 4.96             |
| 3000           | 7.46                             | 10.54            | 4.96             |
| 4000           | -21.95                           | -                | -                |
| 5000           | -22.05                           | -                | -                |
| 6000           | -22.01                           | -                | -                |
| 7000           | -21.98                           | -                | -                |
| 8000           | -21.91                           | -                | -                |
| 9000           | -22.03                           | -                | -                |
| 10000          | -21.93                           | -                | -                |
| 20000          | -21.84                           | -                | -                |
| 30000          | -21.95                           | -                | -                |
| 40000          | -21.95                           | -                | -                |



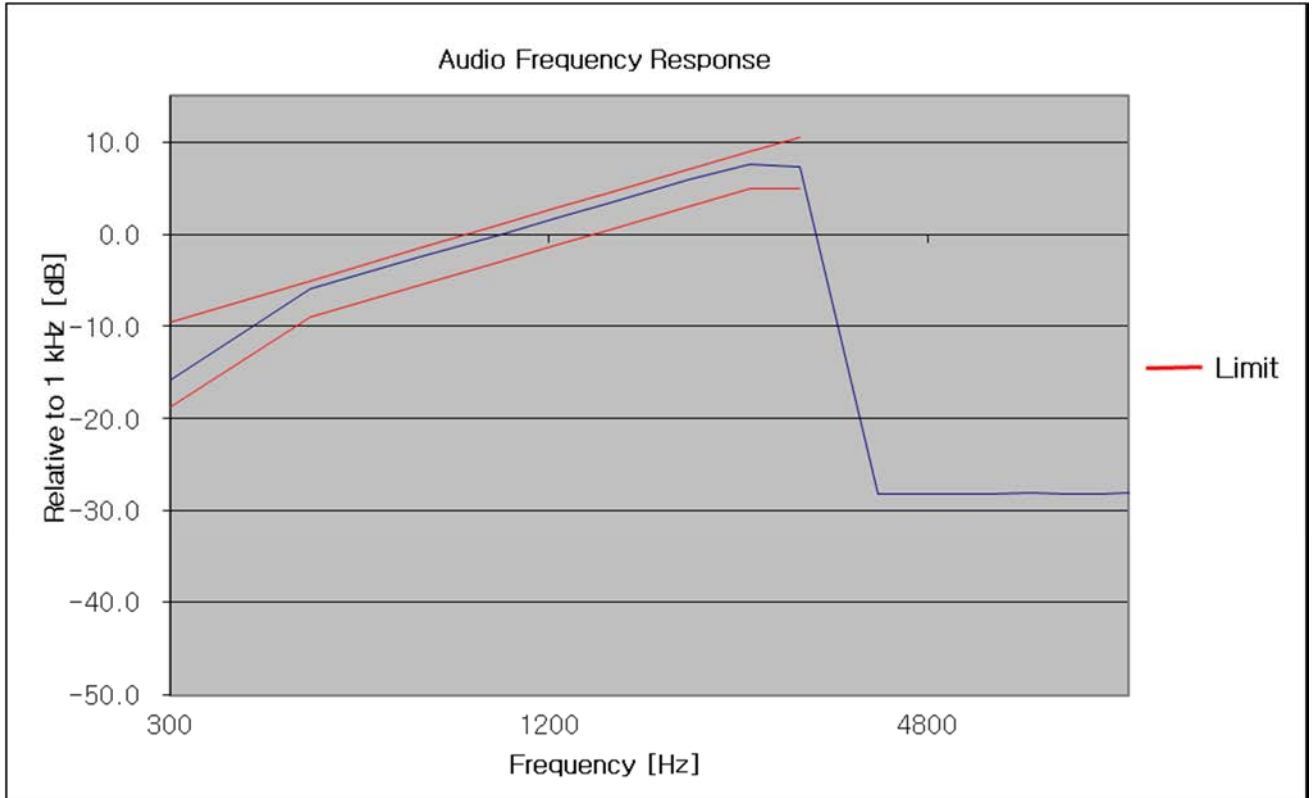
511.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -16.12                           | -9.46            | -18.69           |
| 500            | -6.02                            | -5.02            | -9.02            |
| 750            | -2.49                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.85                             | 2.94             | -1.06            |
| 1500           | 3.42                             | 4.52             | 0.52             |
| 2000           | 5.87                             | 7.02             | 3.02             |
| 2500           | 7.64                             | 8.96             | 4.96             |
| 3000           | 7.38                             | 10.54            | 4.96             |
| 4000           | -22.06                           | -                | -                |
| 5000           | -22.15                           | -                | -                |
| 6000           | -22.06                           | -                | -                |
| 7000           | -22.22                           | -                | -                |
| 8000           | -22.13                           | -                | -                |
| 9000           | -22.17                           | -                | -                |
| 10000          | -22.22                           | -                | -                |
| 20000          | -22.17                           | -                | -                |
| 30000          | -22.01                           | -                | -                |
| 40000          | -22.21                           | -                | -                |



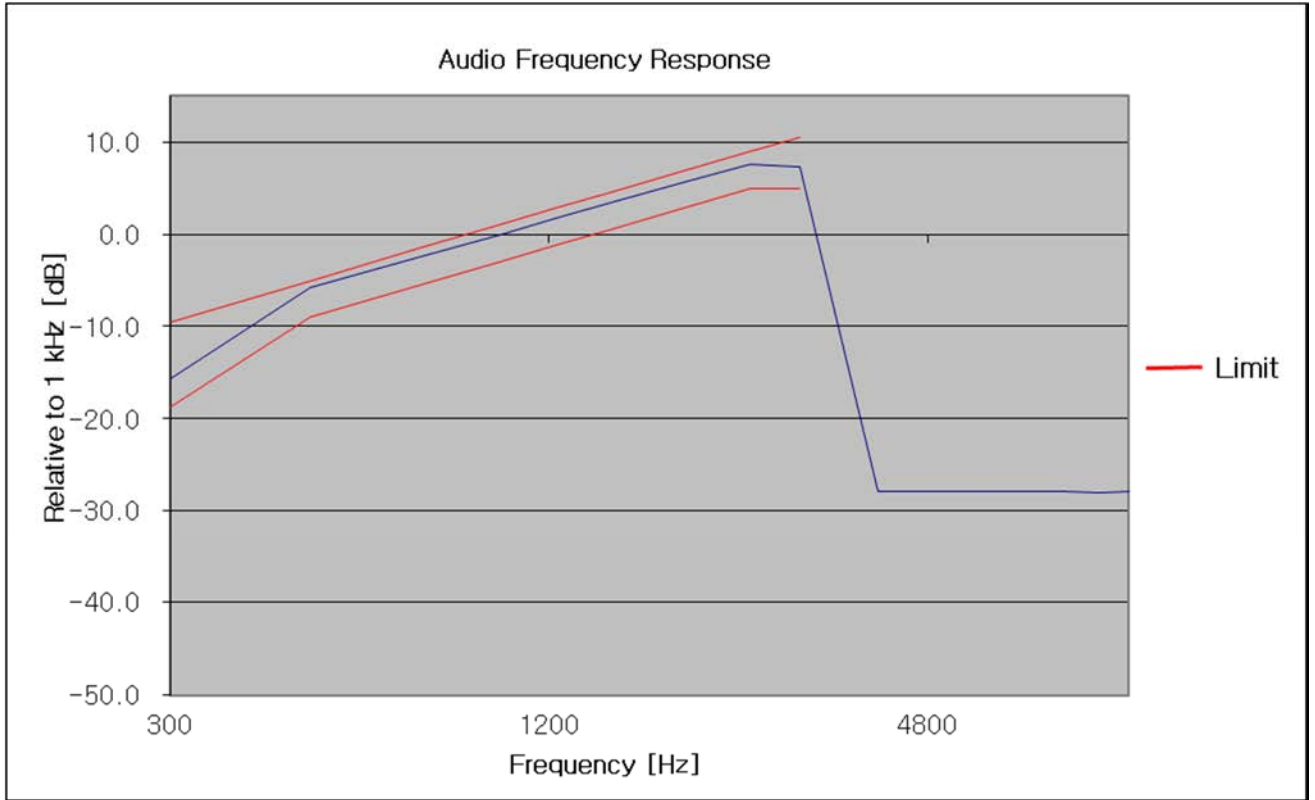
768.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.71                           | -9.46            | -18.69           |
| 500            | -5.86                            | -5.02            | -9.02            |
| 750            | -2.41                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.87                             | 2.94             | -1.06            |
| 1500           | 3.45                             | 4.52             | 0.52             |
| 2000           | 5.86                             | 7.02             | 3.02             |
| 2500           | 7.62                             | 8.96             | 4.96             |
| 3000           | 7.36                             | 10.54            | 4.96             |
| 4000           | -28.12                           | -                | -                |
| 5000           | -28.15                           | -                | -                |
| 6000           | -28.15                           | -                | -                |
| 7000           | -28.07                           | -                | -                |
| 8000           | -28.16                           | -                | -                |
| 9000           | -28.15                           | -                | -                |
| 10000          | -28.05                           | -                | -                |
| 20000          | -28.19                           | -                | -                |
| 30000          | -28.16                           | -                | -                |
| 40000          | -28.05                           | -                | -                |



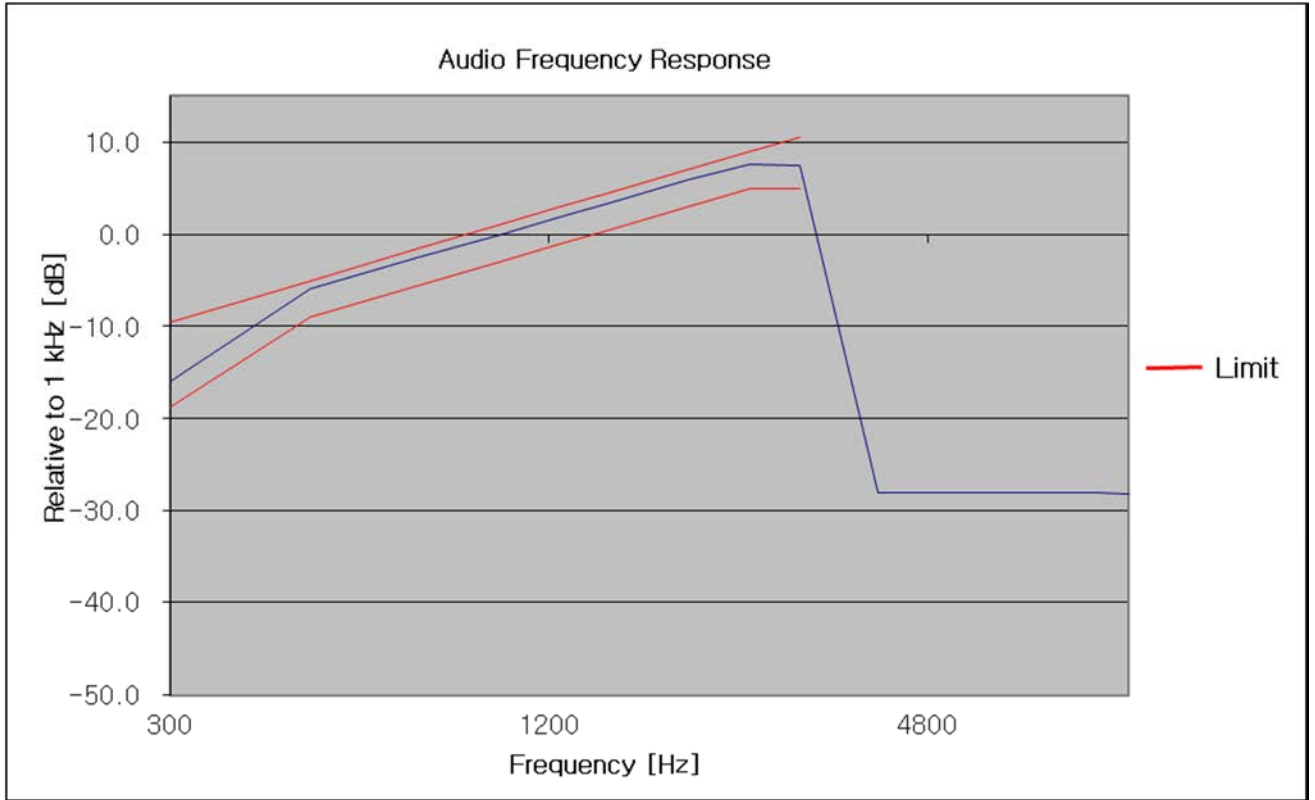
769.06 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.57                           | -9.46            | -18.69           |
| 500            | -5.76                            | -5.02            | -9.02            |
| 750            | -2.38                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.85                             | 2.94             | -1.06            |
| 1500           | 3.36                             | 4.52             | 0.52             |
| 2000           | 5.78                             | 7.02             | 3.02             |
| 2500           | 7.55                             | 8.96             | 4.96             |
| 3000           | 7.29                             | 10.54            | 4.96             |
| 4000           | -27.85                           | -                | -                |
| 5000           | -27.81                           | -                | -                |
| 6000           | -27.83                           | -                | -                |
| 7000           | -27.93                           | -                | -                |
| 8000           | -27.93                           | -                | -                |
| 9000           | -27.98                           | -                | -                |
| 10000          | -27.87                           | -                | -                |
| 20000          | -27.78                           | -                | -                |
| 30000          | -27.75                           | -                | -                |
| 40000          | -27.83                           | -                | -                |



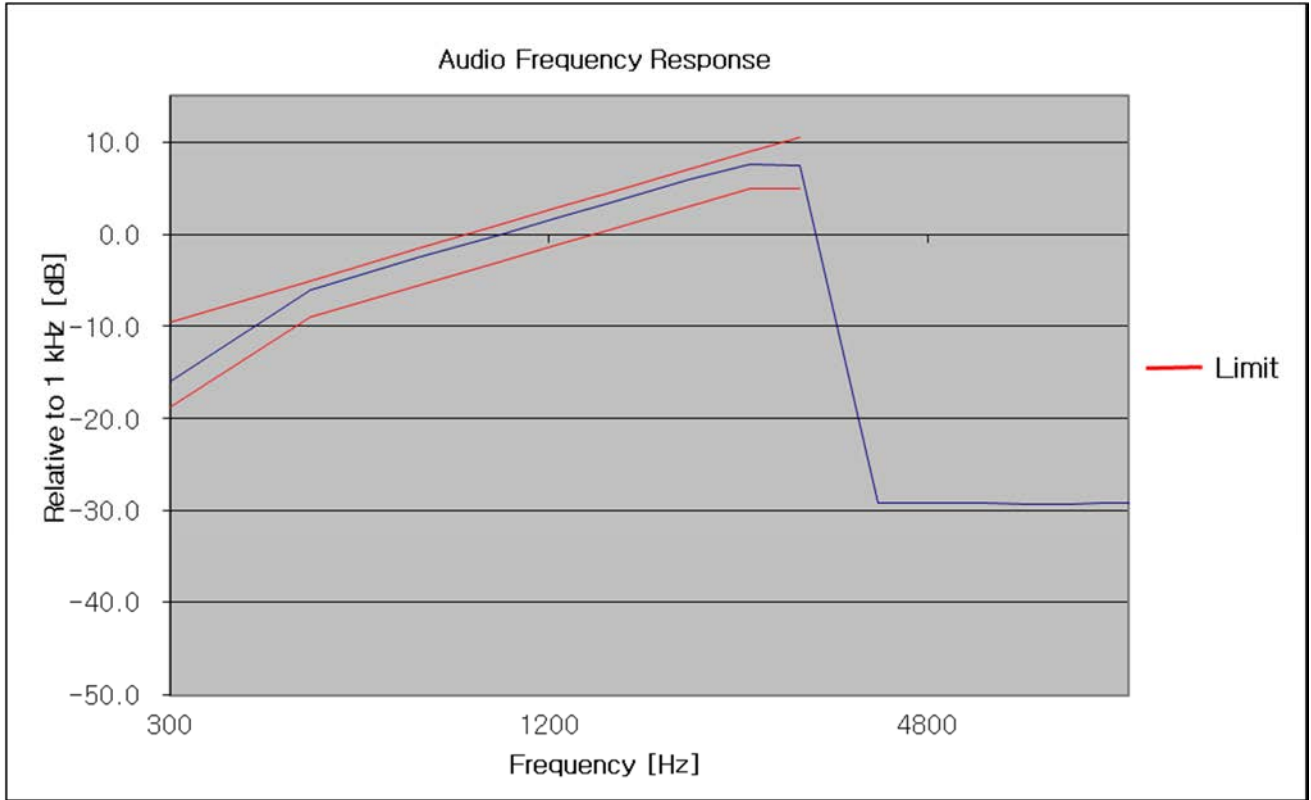
774.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.94                           | -9.46            | -18.69           |
| 500            | -5.93                            | -5.02            | -9.02            |
| 750            | -2.43                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.90                             | 2.94             | -1.06            |
| 1500           | 3.45                             | 4.52             | 0.52             |
| 2000           | 5.89                             | 7.02             | 3.02             |
| 2500           | 7.66                             | 8.96             | 4.96             |
| 3000           | 7.39                             | 10.54            | 4.96             |
| 4000           | -28.01                           | -                | -                |
| 5000           | -28.08                           | -                | -                |
| 6000           | -28.01                           | -                | -                |
| 7000           | -28.04                           | -                | -                |
| 8000           | -28.03                           | -                | -                |
| 9000           | -28.05                           | -                | -                |
| 10000          | -28.22                           | -                | -                |
| 20000          | -27.93                           | -                | -                |
| 30000          | -28.02                           | -                | -                |
| 40000          | -27.97                           | -                | -                |



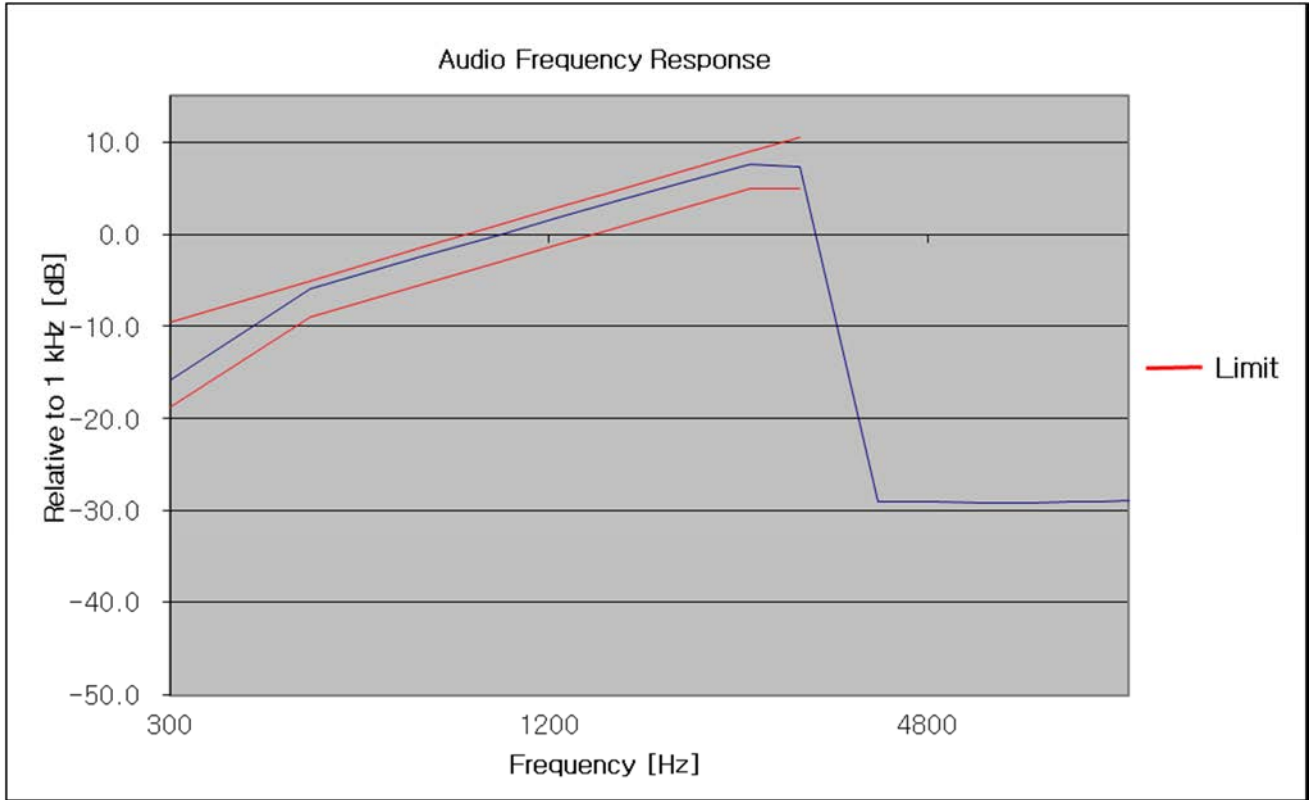
775.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.94                           | -9.46            | -18.69           |
| 500            | -5.97                            | -5.02            | -9.02            |
| 750            | -2.45                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.88                             | 2.94             | -1.06            |
| 1500           | 3.45                             | 4.52             | 0.52             |
| 2000           | 5.89                             | 7.02             | 3.02             |
| 2500           | 7.66                             | 8.96             | 4.96             |
| 3000           | 7.39                             | 10.54            | 4.96             |
| 4000           | -29.17                           | -                | -                |
| 5000           | -29.09                           | -                | -                |
| 6000           | -29.18                           | -                | -                |
| 7000           | -29.20                           | -                | -                |
| 8000           | -29.20                           | -                | -                |
| 9000           | -29.13                           | -                | -                |
| 10000          | -29.18                           | -                | -                |
| 20000          | -29.21                           | -                | -                |
| 30000          | -29.19                           | -                | -                |
| 40000          | -29.28                           | -                | -                |



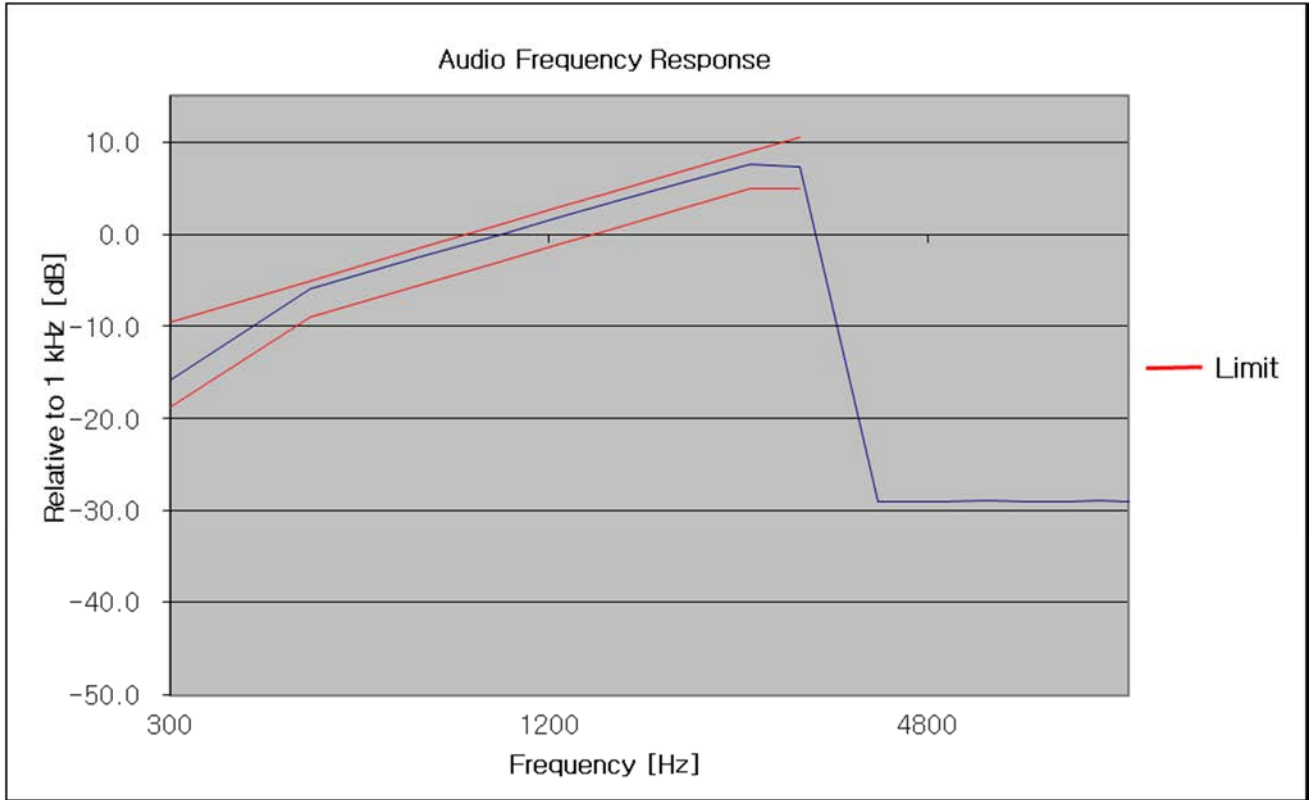
798.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.78                           | -9.46            | -18.69           |
| 500            | -5.85                            | -5.02            | -9.02            |
| 750            | -2.41                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.84                             | 2.94             | -1.06            |
| 1500           | 3.39                             | 4.52             | 0.52             |
| 2000           | 5.82                             | 7.02             | 3.02             |
| 2500           | 7.59                             | 8.96             | 4.96             |
| 3000           | 7.32                             | 10.54            | 4.96             |
| 4000           | -28.98                           | -                | -                |
| 5000           | -28.99                           | -                | -                |
| 6000           | -29.06                           | -                | -                |
| 7000           | -29.10                           | -                | -                |
| 8000           | -29.05                           | -                | -                |
| 9000           | -28.95                           | -                | -                |
| 10000          | -28.89                           | -                | -                |
| 20000          | -29.10                           | -                | -                |
| 30000          | -28.99                           | -                | -                |
| 40000          | -29.02                           | -                | -                |



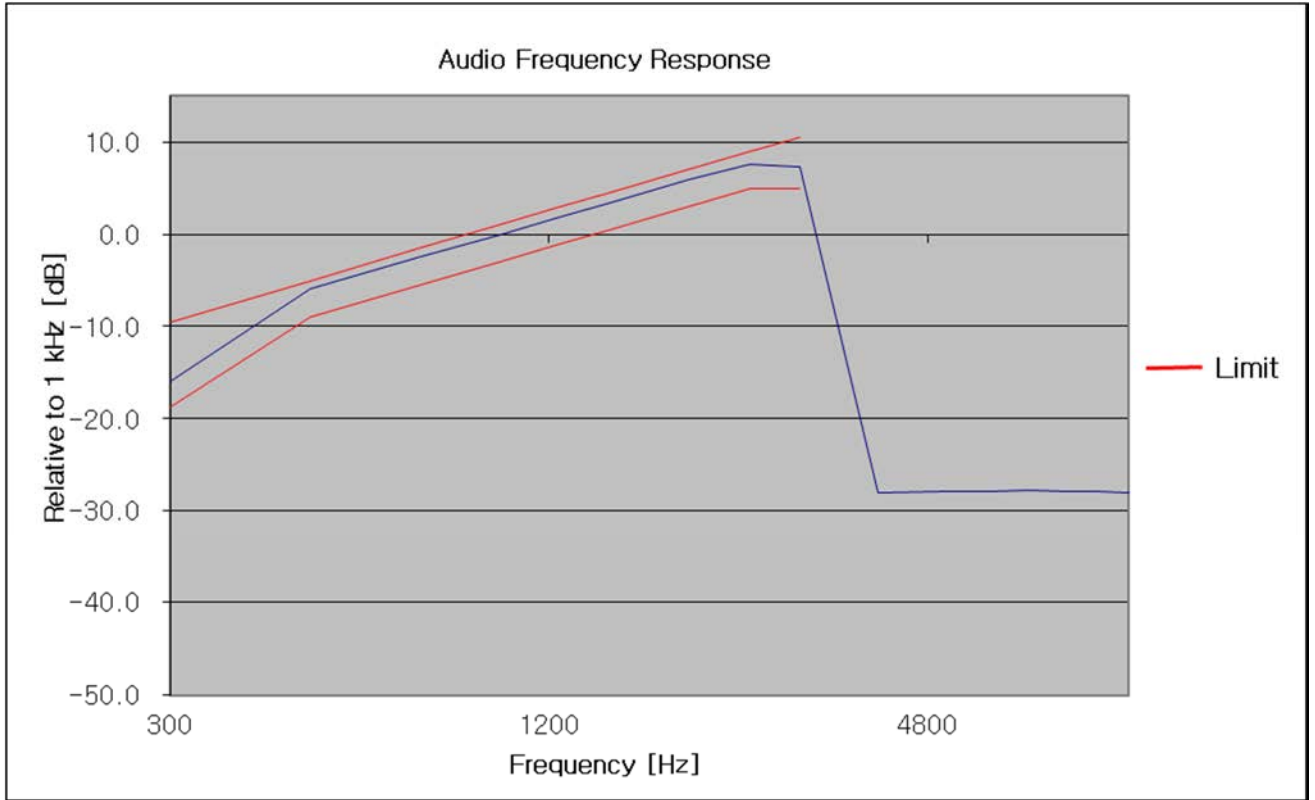
799.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.84                           | -9.46            | -18.69           |
| 500            | -5.85                            | -5.02            | -9.02            |
| 750            | -2.42                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.86                             | 2.94             | -1.06            |
| 1500           | 3.41                             | 4.52             | 0.52             |
| 2000           | 5.84                             | 7.02             | 3.02             |
| 2500           | 7.61                             | 8.96             | 4.96             |
| 3000           | 7.34                             | 10.54            | 4.96             |
| 4000           | -28.98                           | -                | -                |
| 5000           | -29.02                           | -                | -                |
| 6000           | -28.87                           | -                | -                |
| 7000           | -28.93                           | -                | -                |
| 8000           | -28.96                           | -                | -                |
| 9000           | -28.89                           | -                | -                |
| 10000          | -28.96                           | -                | -                |
| 20000          | -28.99                           | -                | -                |
| 30000          | -28.95                           | -                | -                |
| 40000          | -28.89                           | -                | -                |



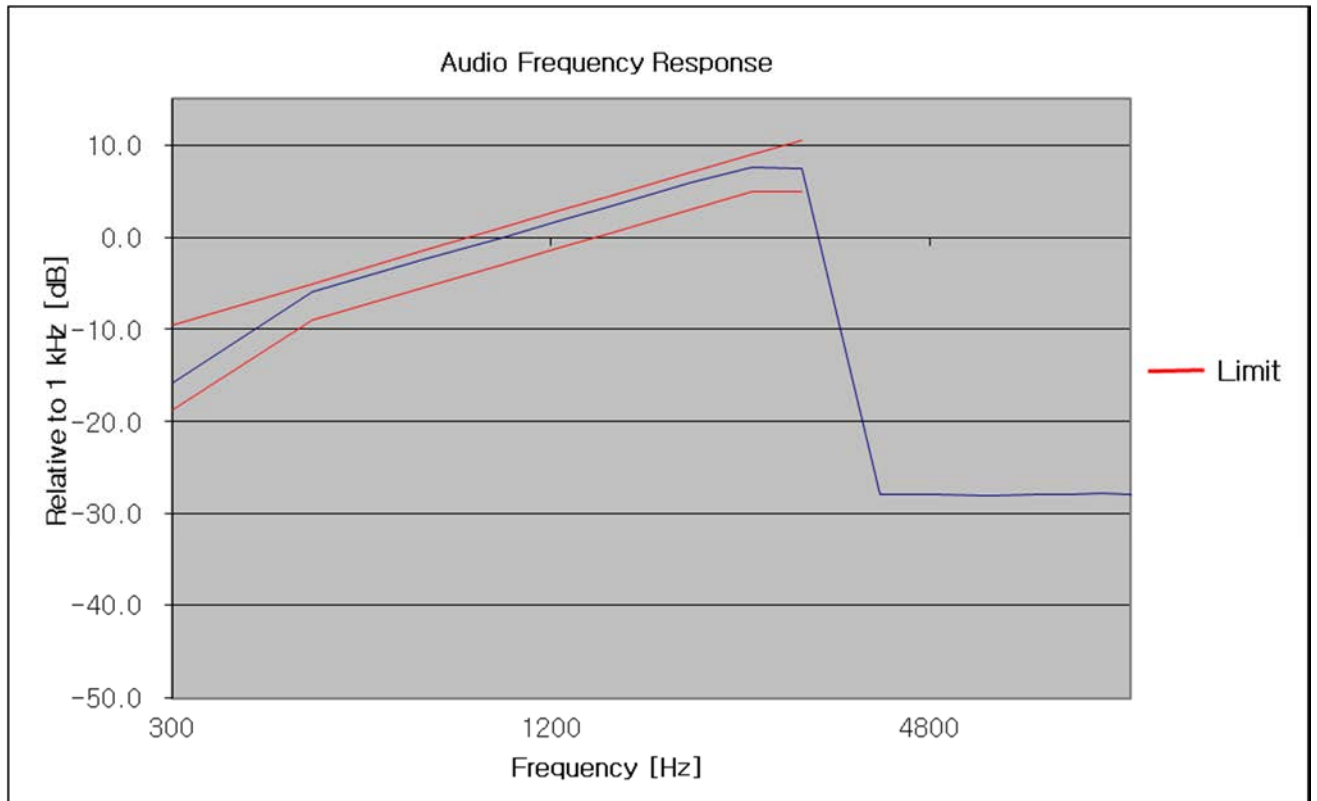
804.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.90                           | -9.46            | -18.69           |
| 500            | -5.90                            | -5.02            | -9.02            |
| 750            | -2.42                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.87                             | 2.94             | -1.06            |
| 1500           | 3.43                             | 4.52             | 0.52             |
| 2000           | 5.86                             | 7.02             | 3.02             |
| 2500           | 7.62                             | 8.96             | 4.96             |
| 3000           | 7.37                             | 10.54            | 4.96             |
| 4000           | -28.00                           | -                | -                |
| 5000           | -27.82                           | -                | -                |
| 6000           | -27.82                           | -                | -                |
| 7000           | -27.80                           | -                | -                |
| 8000           | -27.87                           | -                | -                |
| 9000           | -27.91                           | -                | -                |
| 10000          | -27.96                           | -                | -                |
| 20000          | -27.93                           | -                | -                |
| 30000          | -27.92                           | -                | -                |
| 40000          | -27.91                           | -                | -                |



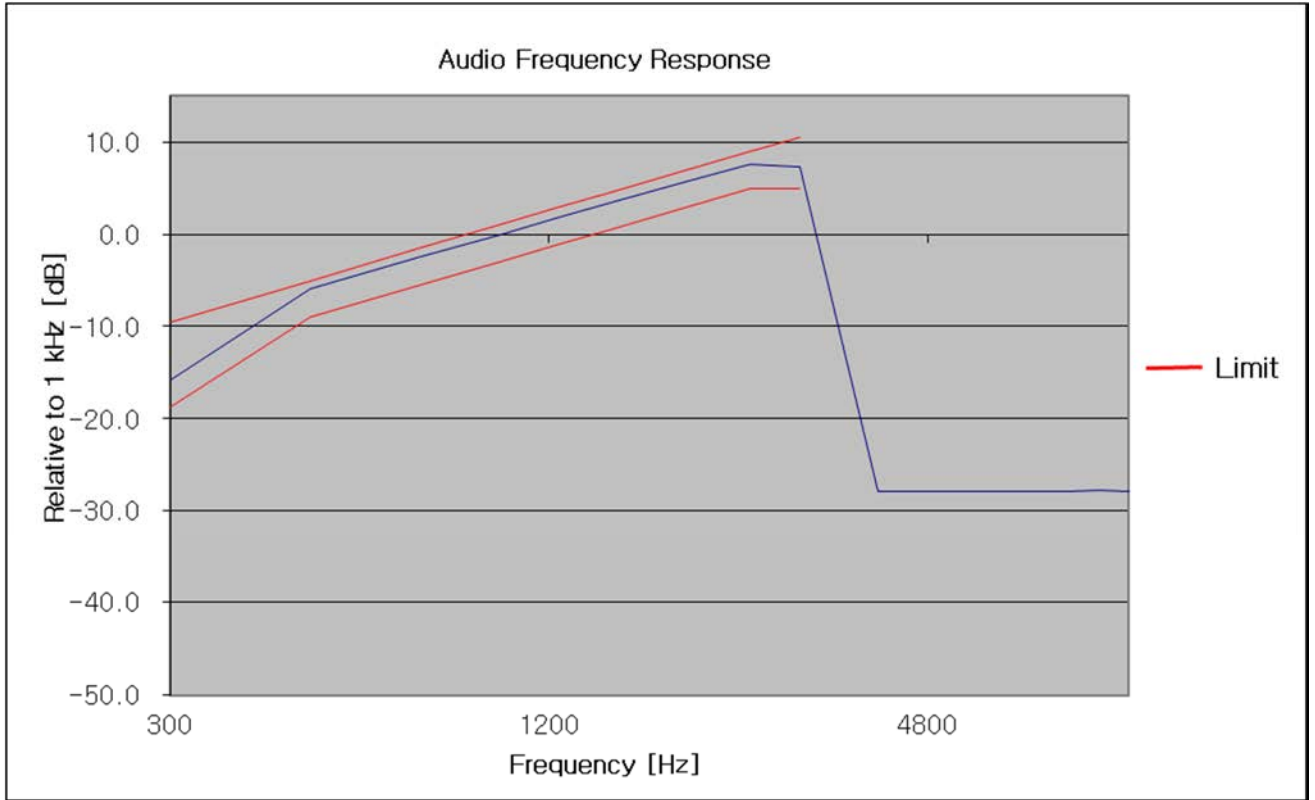
805.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.84                           | -9.46            | -18.69           |
| 500            | -5.90                            | -5.02            | -9.02            |
| 750            | -2.43                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.89                             | 2.94             | -1.06            |
| 1500           | 3.45                             | 4.52             | 0.52             |
| 2000           | 5.88                             | 7.02             | 3.02             |
| 2500           | 7.65                             | 8.96             | 4.96             |
| 3000           | 7.39                             | 10.54            | 4.96             |
| 4000           | -27.89                           | -                | -                |
| 5000           | -27.85                           | -                | -                |
| 6000           | -28.01                           | -                | -                |
| 7000           | -27.91                           | -                | -                |
| 8000           | -27.87                           | -                | -                |
| 9000           | -27.79                           | -                | -                |
| 10000          | -27.83                           | -                | -                |
| 20000          | -27.96                           | -                | -                |
| 30000          | -27.89                           | -                | -                |
| 40000          | -27.92                           | -                | -                |



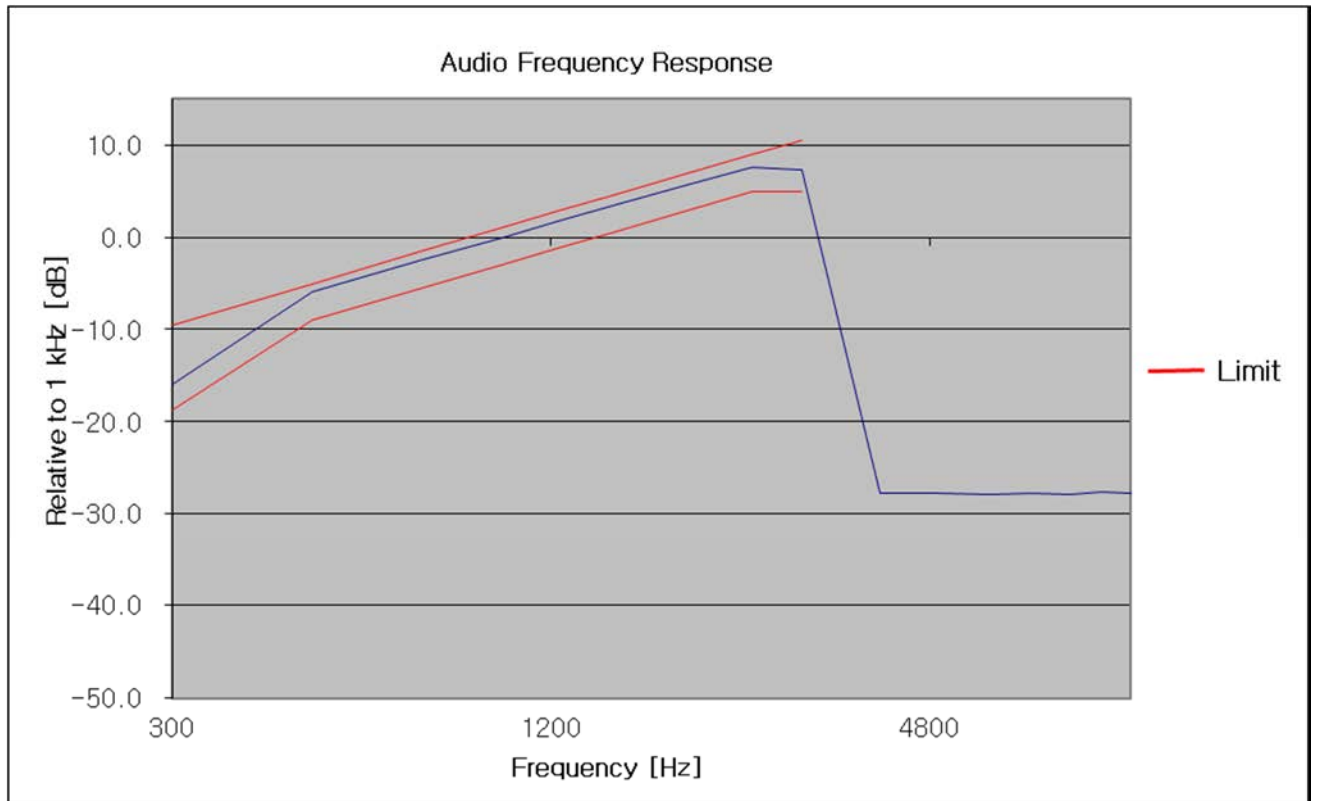
806.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.80                           | -9.46            | -18.69           |
| 500            | -5.88                            | -5.02            | -9.02            |
| 750            | -2.42                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.86                             | 2.94             | -1.06            |
| 1500           | 3.42                             | 4.52             | 0.52             |
| 2000           | 5.85                             | 7.02             | 3.02             |
| 2500           | 7.62                             | 8.96             | 4.96             |
| 3000           | 7.36                             | 10.54            | 4.96             |
| 4000           | -27.94                           | -                | -                |
| 5000           | -27.82                           | -                | -                |
| 6000           | -27.86                           | -                | -                |
| 7000           | -27.86                           | -                | -                |
| 8000           | -27.86                           | -                | -                |
| 9000           | -27.77                           | -                | -                |
| 10000          | -27.85                           | -                | -                |
| 20000          | -27.79                           | -                | -                |
| 30000          | -27.91                           | -                | -                |
| 40000          | -27.83                           | -                | -                |



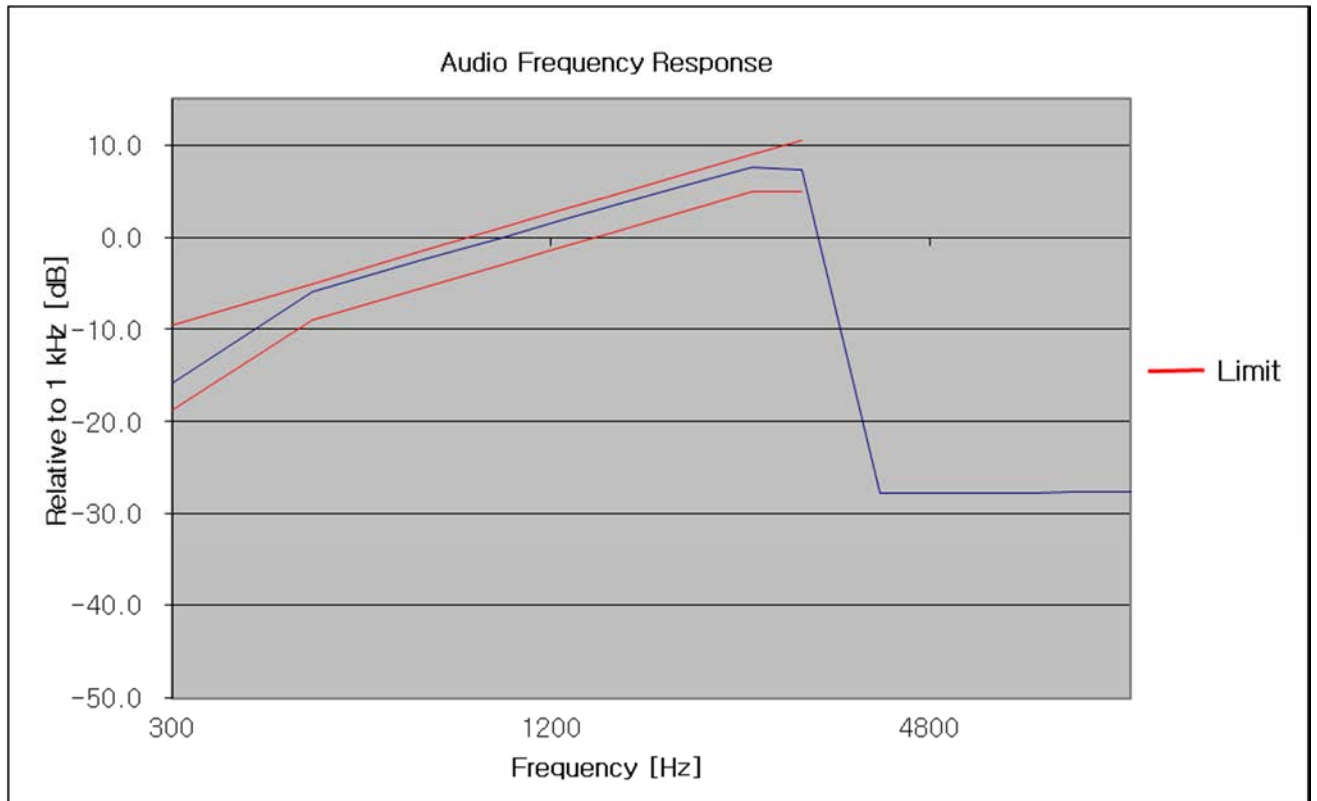
815.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.93                           | -9.46            | -18.69           |
| 500            | -5.92                            | -5.02            | -9.02            |
| 750            | -2.45                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.84                             | 2.94             | -1.06            |
| 1500           | 3.40                             | 4.52             | 0.52             |
| 2000           | 5.84                             | 7.02             | 3.02             |
| 2500           | 7.60                             | 8.96             | 4.96             |
| 3000           | 7.35                             | 10.54            | 4.96             |
| 4000           | -27.71                           | -                | -                |
| 5000           | -27.69                           | -                | -                |
| 6000           | -27.81                           | -                | -                |
| 7000           | -27.73                           | -                | -                |
| 8000           | -27.82                           | -                | -                |
| 9000           | -27.63                           | -                | -                |
| 10000          | -27.79                           | -                | -                |
| 20000          | -27.81                           | -                | -                |
| 30000          | -27.73                           | -                | -                |
| 40000          | -27.79                           | -                | -                |



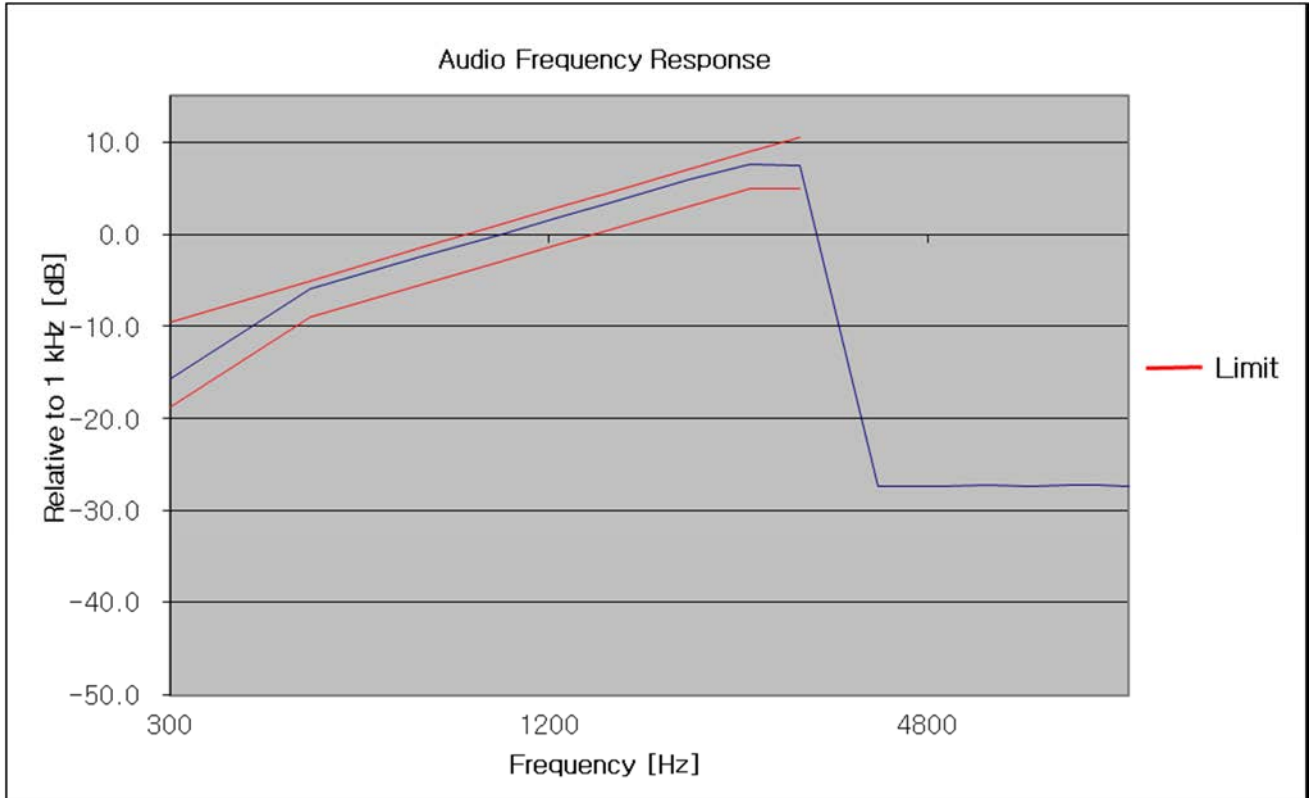
823.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.78                           | -9.46            | -18.69           |
| 500            | -5.88                            | -5.02            | -9.02            |
| 750            | -2.44                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.83                             | 2.94             | -1.06            |
| 1500           | 3.38                             | 4.52             | 0.52             |
| 2000           | 5.82                             | 7.02             | 3.02             |
| 2500           | 7.59                             | 8.96             | 4.96             |
| 3000           | 7.34                             | 10.54            | 4.96             |
| 4000           | -27.70                           | -                | -                |
| 5000           | -27.79                           | -                | -                |
| 6000           | -27.72                           | -                | -                |
| 7000           | -27.68                           | -                | -                |
| 8000           | -27.59                           | -                | -                |
| 9000           | -27.55                           | -                | -                |
| 10000          | -27.66                           | -                | -                |
| 20000          | -27.61                           | -                | -                |
| 30000          | -27.66                           | -                | -                |
| 40000          | -27.65                           | -                | -                |



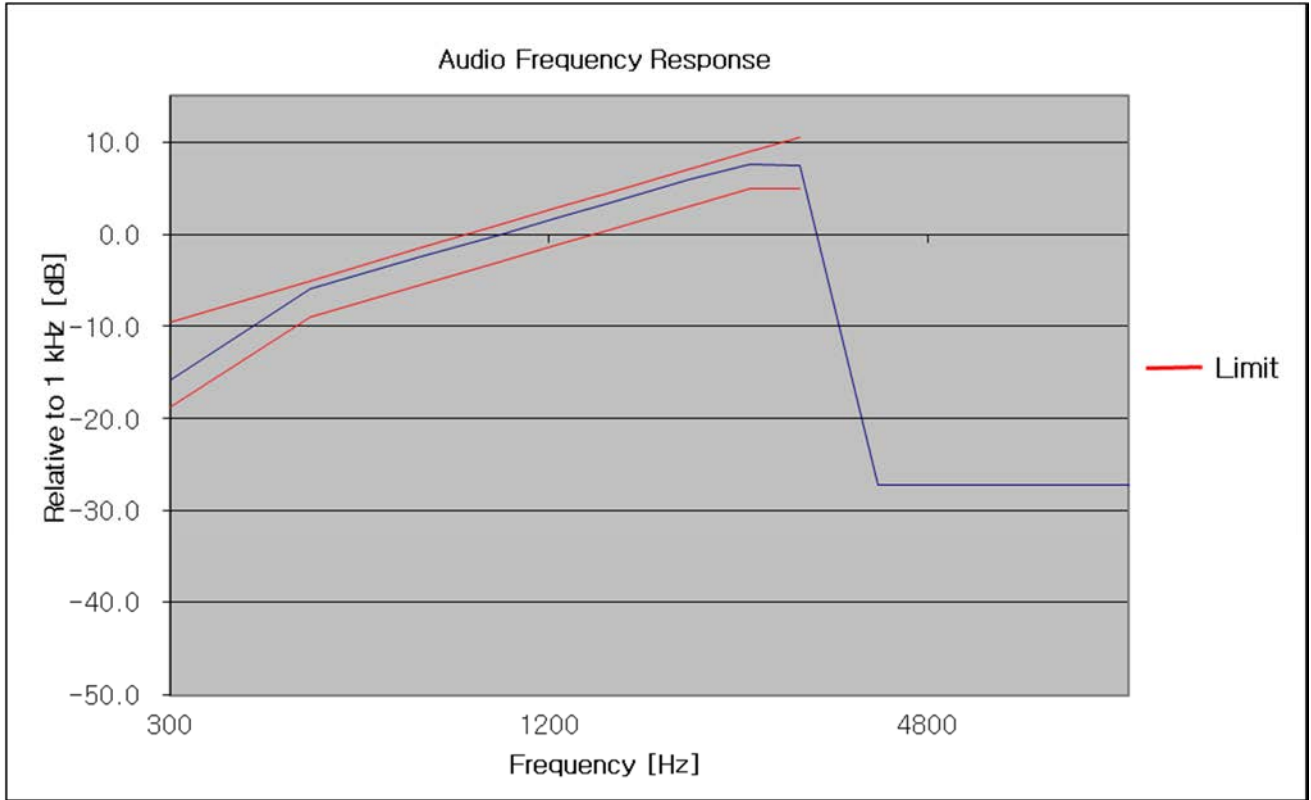
851.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.66                           | -9.46            | -18.69           |
| 500            | -5.83                            | -5.02            | -9.02            |
| 750            | -2.42                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.86                             | 2.94             | -1.06            |
| 1500           | 3.42                             | 4.52             | 0.52             |
| 2000           | 5.87                             | 7.02             | 3.02             |
| 2500           | 7.64                             | 8.96             | 4.96             |
| 3000           | 7.39                             | 10.54            | 4.96             |
| 4000           | -27.26                           | -                | -                |
| 5000           | -27.28                           | -                | -                |
| 6000           | -27.24                           | -                | -                |
| 7000           | -27.38                           | -                | -                |
| 8000           | -27.23                           | -                | -                |
| 9000           | -27.23                           | -                | -                |
| 10000          | -27.32                           | -                | -                |
| 20000          | -27.32                           | -                | -                |
| 30000          | -27.23                           | -                | -                |
| 40000          | -27.24                           | -                | -                |



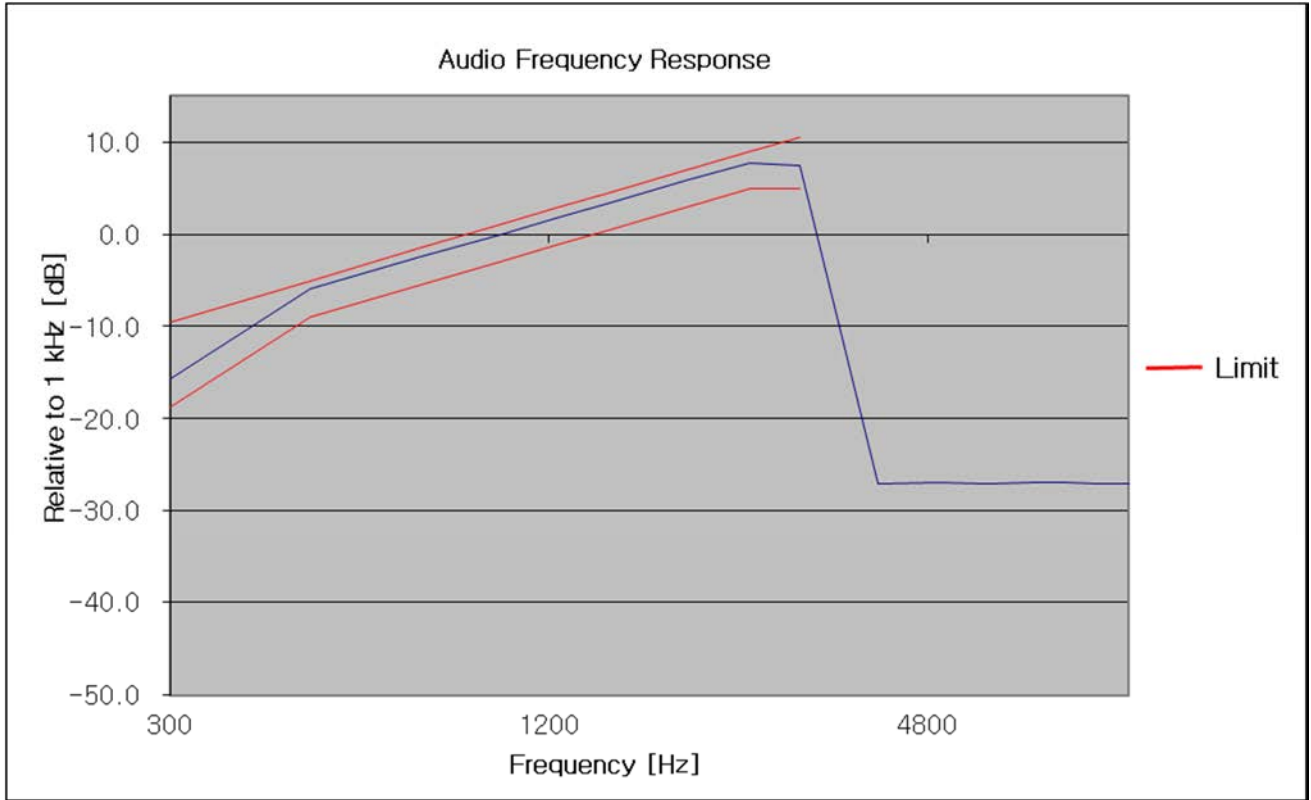
860.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.71                           | -9.46            | -18.69           |
| 500            | -5.88                            | -5.02            | -9.02            |
| 750            | -2.47                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.86                             | 2.94             | -1.06            |
| 1500           | 3.42                             | 4.52             | 0.52             |
| 2000           | 5.87                             | 7.02             | 3.02             |
| 2500           | 7.65                             | 8.96             | 4.96             |
| 3000           | 7.40                             | 10.54            | 4.96             |
| 4000           | -27.21                           | -                | -                |
| 5000           | -27.21                           | -                | -                |
| 6000           | -27.23                           | -                | -                |
| 7000           | -27.23                           | -                | -                |
| 8000           | -27.14                           | -                | -                |
| 9000           | -27.21                           | -                | -                |
| 10000          | -27.21                           | -                | -                |
| 20000          | -27.25                           | -                | -                |
| 30000          | -27.25                           | -                | -                |
| 40000          | -27.23                           | -                | -                |



868.95 MHz

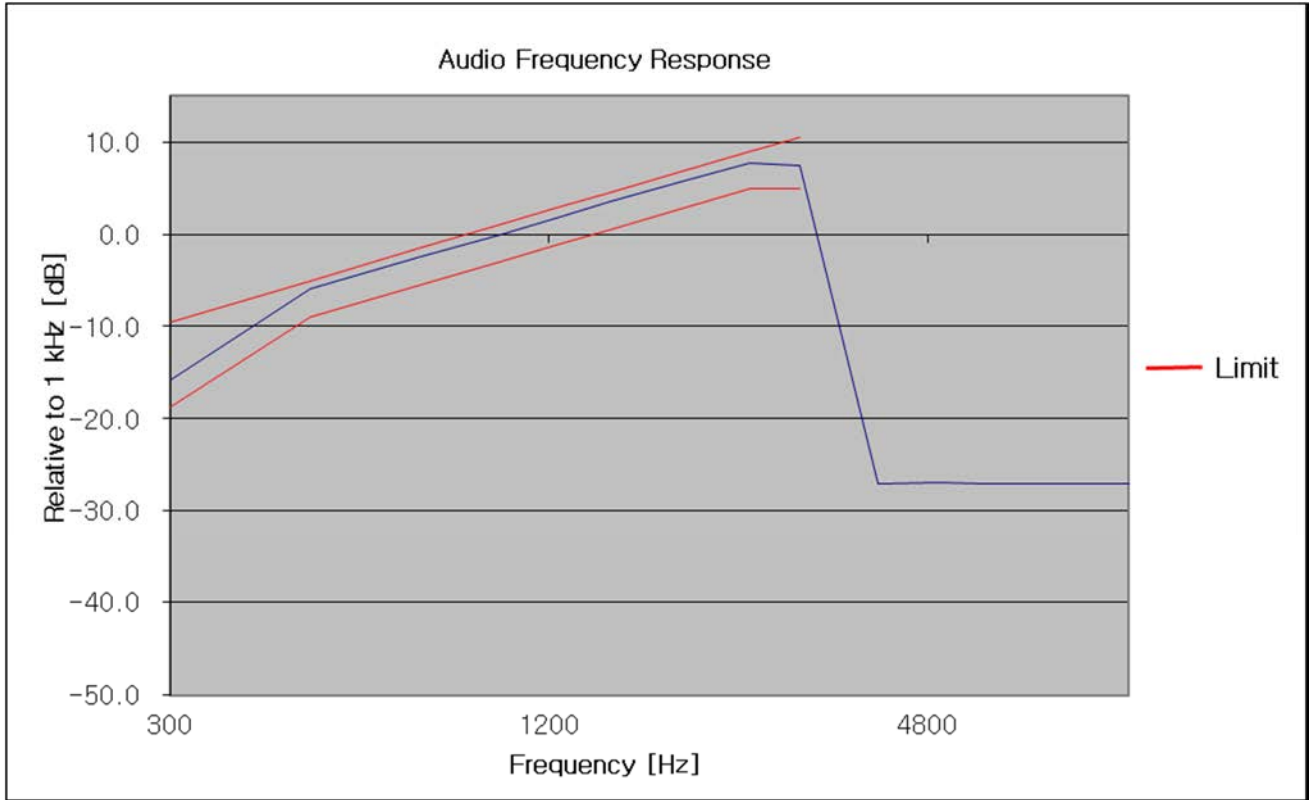
| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.68                           | -9.46            | -18.69           |
| 500            | -5.92                            | -5.02            | -9.02            |
| 750            | -2.47                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.88                             | 2.94             | -1.06            |
| 1500           | 3.41                             | 4.52             | 0.52             |
| 2000           | 5.88                             | 7.02             | 3.02             |
| 2500           | 7.67                             | 8.96             | 4.96             |
| 3000           | 7.42                             | 10.54            | 4.96             |
| 4000           | -26.98                           | -                | -                |
| 5000           | -26.88                           | -                | -                |
| 6000           | -26.99                           | -                | -                |
| 7000           | -26.97                           | -                | -                |
| 8000           | -26.92                           | -                | -                |
| 9000           | -27.04                           | -                | -                |
| 10000          | -27.05                           | -                | -                |
| 20000          | -26.94                           | -                | -                |
| 30000          | -26.98                           | -                | -                |
| 40000          | -26.87                           | -                | -                |



11K0F3E\_HIGH POWER

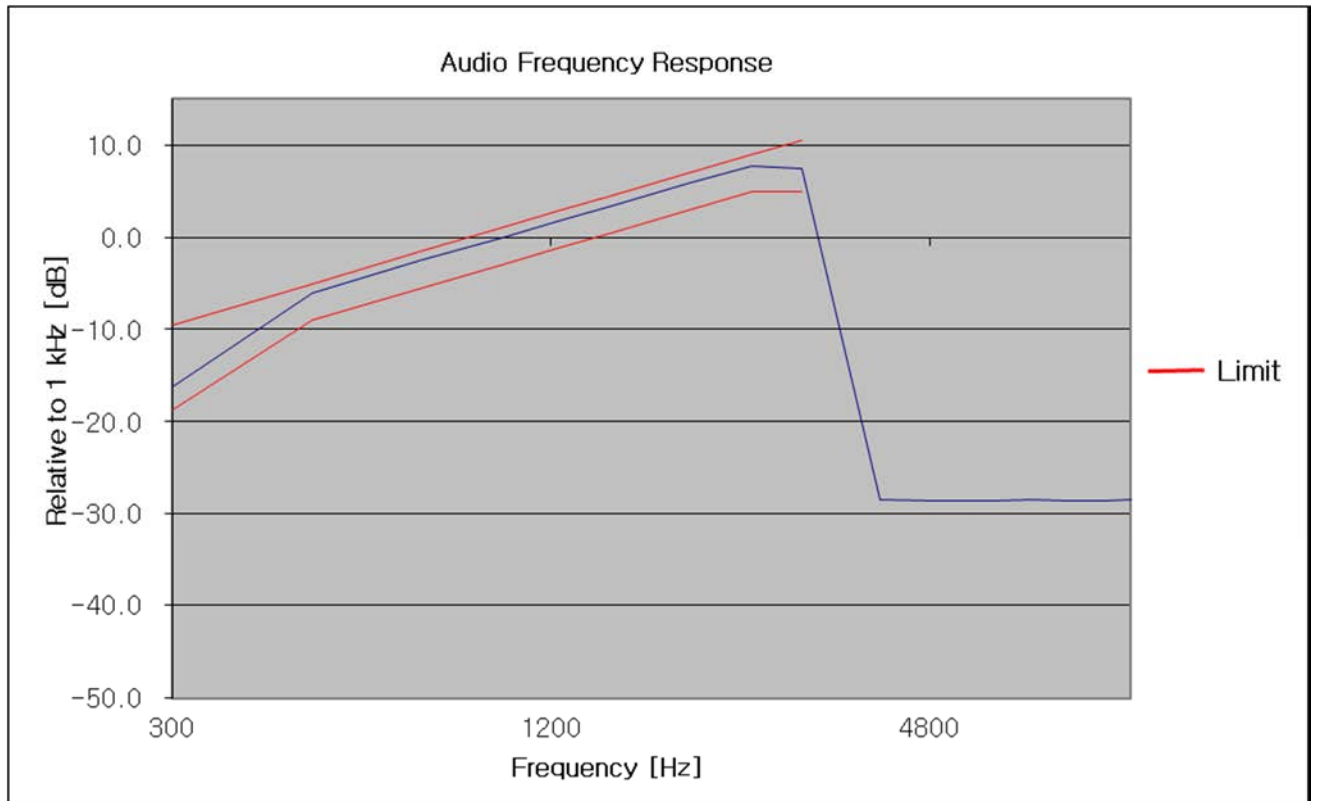
138.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.82                           | -9.46            | -18.69           |
| 500            | -5.89                            | -5.02            | -9.02            |
| 750            | -2.40                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.90                             | 2.94             | -1.06            |
| 1500           | 3.50                             | 4.52             | 0.52             |
| 2000           | 5.94                             | 7.02             | 3.02             |
| 2500           | 7.74                             | 8.96             | 4.96             |
| 3000           | 7.49                             | 10.54            | 4.96             |
| 4000           | -27.03                           | -                | -                |
| 5000           | -26.97                           | -                | -                |
| 6000           | -27.03                           | -                | -                |
| 7000           | -27.03                           | -                | -                |
| 8000           | -27.09                           | -                | -                |
| 9000           | -27.09                           | -                | -                |
| 10000          | -27.03                           | -                | -                |
| 20000          | -27.09                           | -                | -                |
| 30000          | -26.97                           | -                | -                |
| 40000          | -27.09                           | -                | -                |



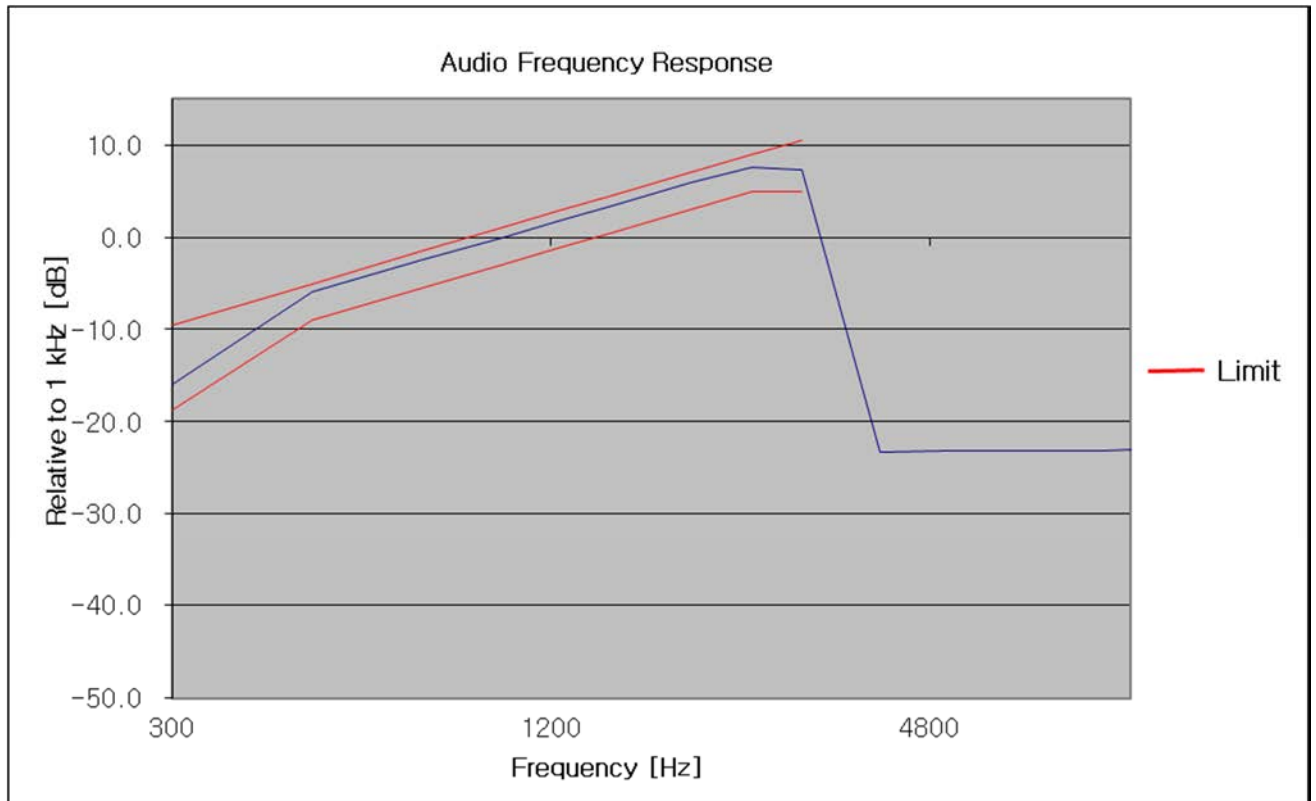
150.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -16.21                           | -9.46            | -18.69           |
| 500            | -6.00                            | -5.02            | -9.02            |
| 750            | -2.46                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.90                             | 2.94             | -1.06            |
| 1500           | 3.43                             | 4.52             | 0.52             |
| 2000           | 5.91                             | 7.02             | 3.02             |
| 2500           | 7.67                             | 8.96             | 4.96             |
| 3000           | 7.43                             | 10.54            | 4.96             |
| 4000           | -28.47                           | -                | -                |
| 5000           | -28.54                           | -                | -                |
| 6000           | -28.61                           | -                | -                |
| 7000           | -28.47                           | -                | -                |
| 8000           | -28.54                           | -                | -                |
| 9000           | -28.54                           | -                | -                |
| 10000          | -28.47                           | -                | -                |
| 20000          | -28.61                           | -                | -                |
| 30000          | -28.54                           | -                | -                |
| 40000          | -28.47                           | -                | -                |



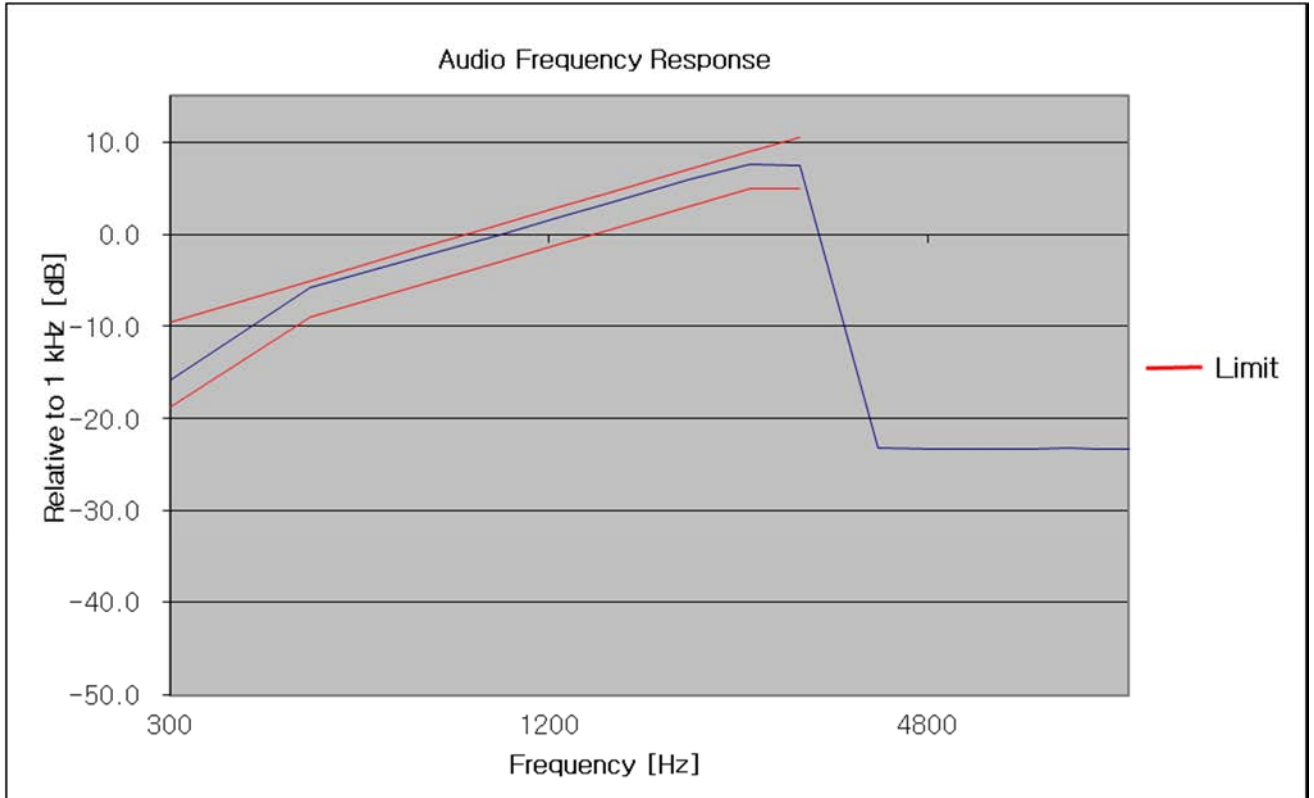
162.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.98                           | -9.46            | -18.69           |
| 500            | -5.89                            | -5.02            | -9.02            |
| 750            | -2.39                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.88                             | 2.94             | -1.06            |
| 1500           | 3.42                             | 4.52             | 0.52             |
| 2000           | 5.87                             | 7.02             | 3.02             |
| 2500           | 7.63                             | 8.96             | 4.96             |
| 3000           | 7.38                             | 10.54            | 4.96             |
| 4000           | -23.22                           | -                | -                |
| 5000           | -23.09                           | -                | -                |
| 6000           | -23.16                           | -                | -                |
| 7000           | -23.12                           | -                | -                |
| 8000           | -23.12                           | -                | -                |
| 9000           | -23.18                           | -                | -                |
| 10000          | -23.05                           | -                | -                |
| 20000          | -23.16                           | -                | -                |
| 30000          | -23.12                           | -                | -                |
| 40000          | -23.22                           | -                | -                |



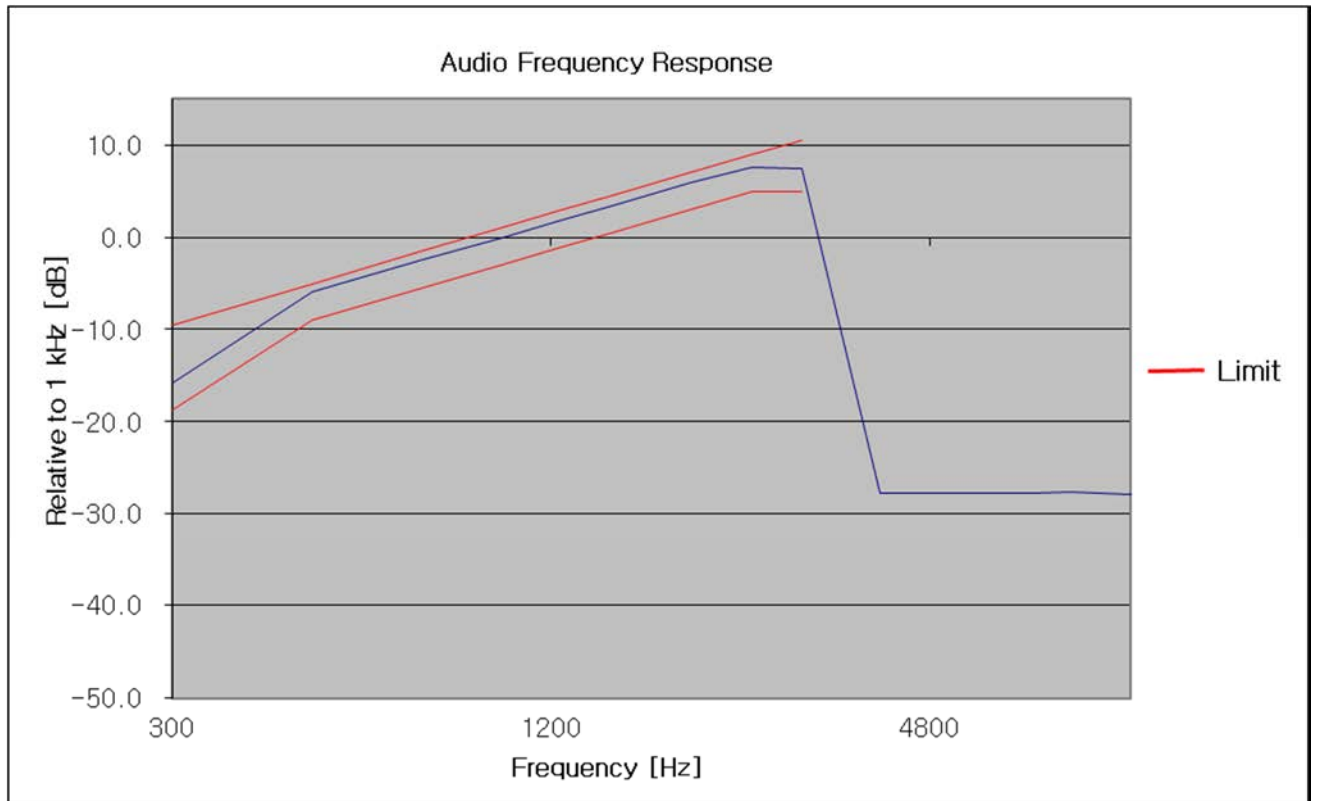
173.95MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.76                           | -9.46            | -18.69           |
| 500            | -5.82                            | -5.02            | -9.02            |
| 750            | -2.36                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.87                             | 2.94             | -1.06            |
| 1500           | 3.42                             | 4.52             | 0.52             |
| 2000           | 5.87                             | 7.02             | 3.02             |
| 2500           | 7.63                             | 8.96             | 4.96             |
| 3000           | 7.39                             | 10.54            | 4.96             |
| 4000           | -23.20                           | -                | -                |
| 5000           | -23.27                           | -                | -                |
| 6000           | -23.23                           | -                | -                |
| 7000           | -23.23                           | -                | -                |
| 8000           | -23.20                           | -                | -                |
| 9000           | -23.27                           | -                | -                |
| 10000          | -23.27                           | -                | -                |
| 20000          | -23.16                           | -                | -                |
| 30000          | -23.23                           | -                | -                |
| 40000          | -23.16                           | -                | -                |



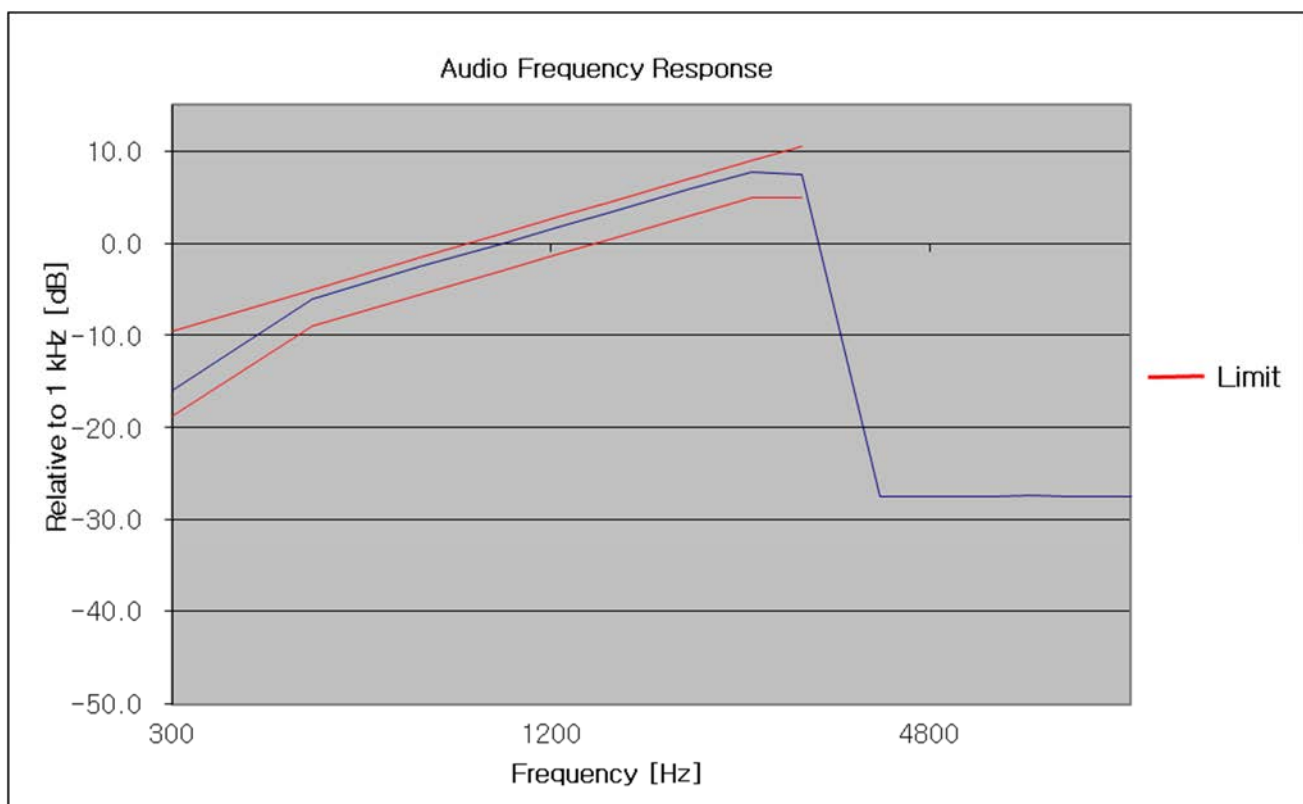
406.15 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.81                           | -9.46            | -18.69           |
| 500            | -5.88                            | -5.02            | -9.02            |
| 750            | -2.39                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.88                             | 2.94             | -1.06            |
| 1500           | 3.45                             | 4.52             | 0.52             |
| 2000           | 5.88                             | 7.02             | 3.02             |
| 2500           | 7.65                             | 8.96             | 4.96             |
| 3000           | 7.39                             | 10.54            | 4.96             |
| 4000           | -27.71                           | -                | -                |
| 5000           | -27.77                           | -                | -                |
| 6000           | -27.75                           | -                | -                |
| 7000           | -27.67                           | -                | -                |
| 8000           | -27.54                           | -                | -                |
| 9000           | -27.77                           | -                | -                |
| 10000          | -27.81                           | -                | -                |
| 20000          | -27.83                           | -                | -                |
| 30000          | -27.77                           | -                | -                |
| 40000          | -27.77                           | -                | -                |



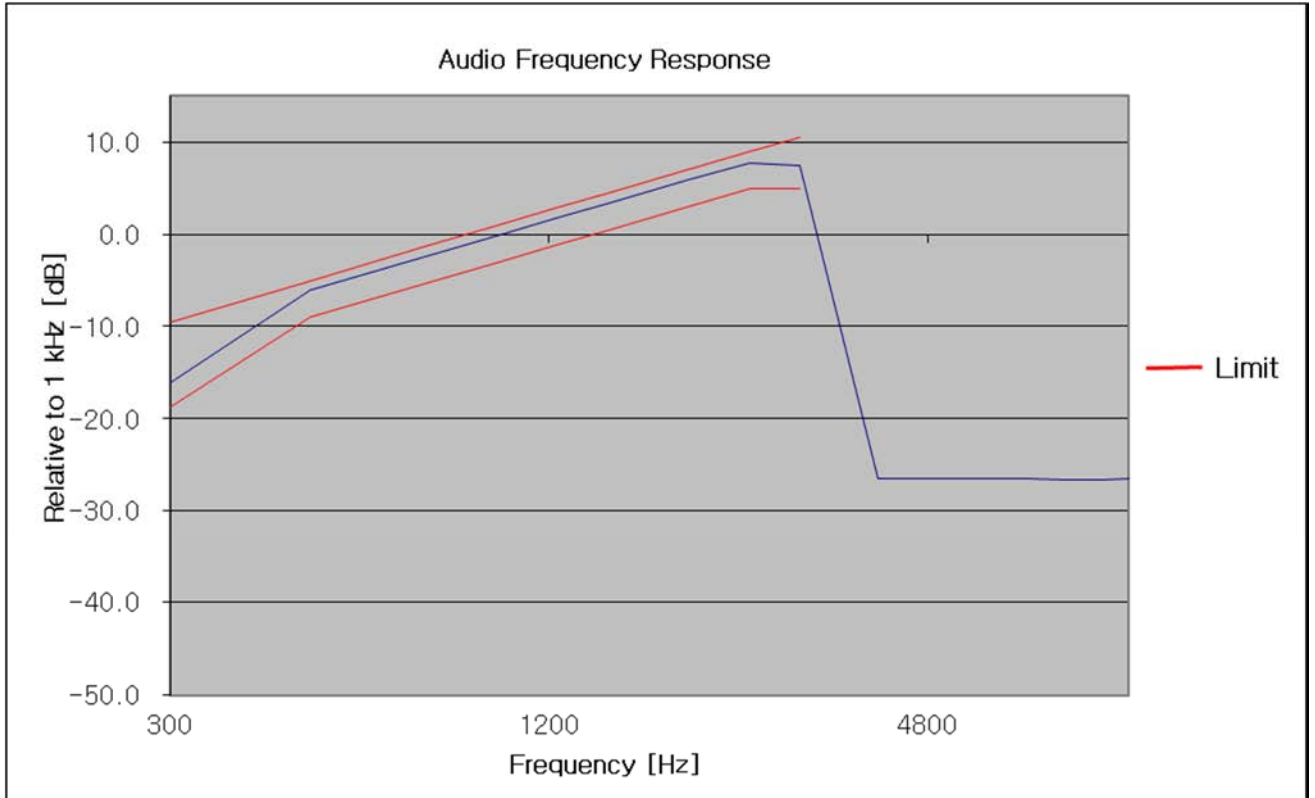
429.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.97                           | -9.46            | -18.69           |
| 500            | -5.98                            | -5.02            | -9.02            |
| 750            | -2.46                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.86                             | 2.94             | -1.06            |
| 1500           | 3.45                             | 4.52             | 0.52             |
| 2000           | 5.90                             | 7.02             | 3.02             |
| 2500           | 7.69                             | 8.96             | 4.96             |
| 3000           | 7.44                             | 10.54            | 4.96             |
| 4000           | -27.44                           | -                | -                |
| 5000           | -27.44                           | -                | -                |
| 6000           | -27.46                           | -                | -                |
| 7000           | -27.33                           | -                | -                |
| 8000           | -27.44                           | -                | -                |
| 9000           | -27.41                           | -                | -                |
| 10000          | -27.39                           | -                | -                |
| 20000          | -27.46                           | -                | -                |
| 30000          | -27.35                           | -                | -                |
| 40000          | -27.44                           | -                | -                |



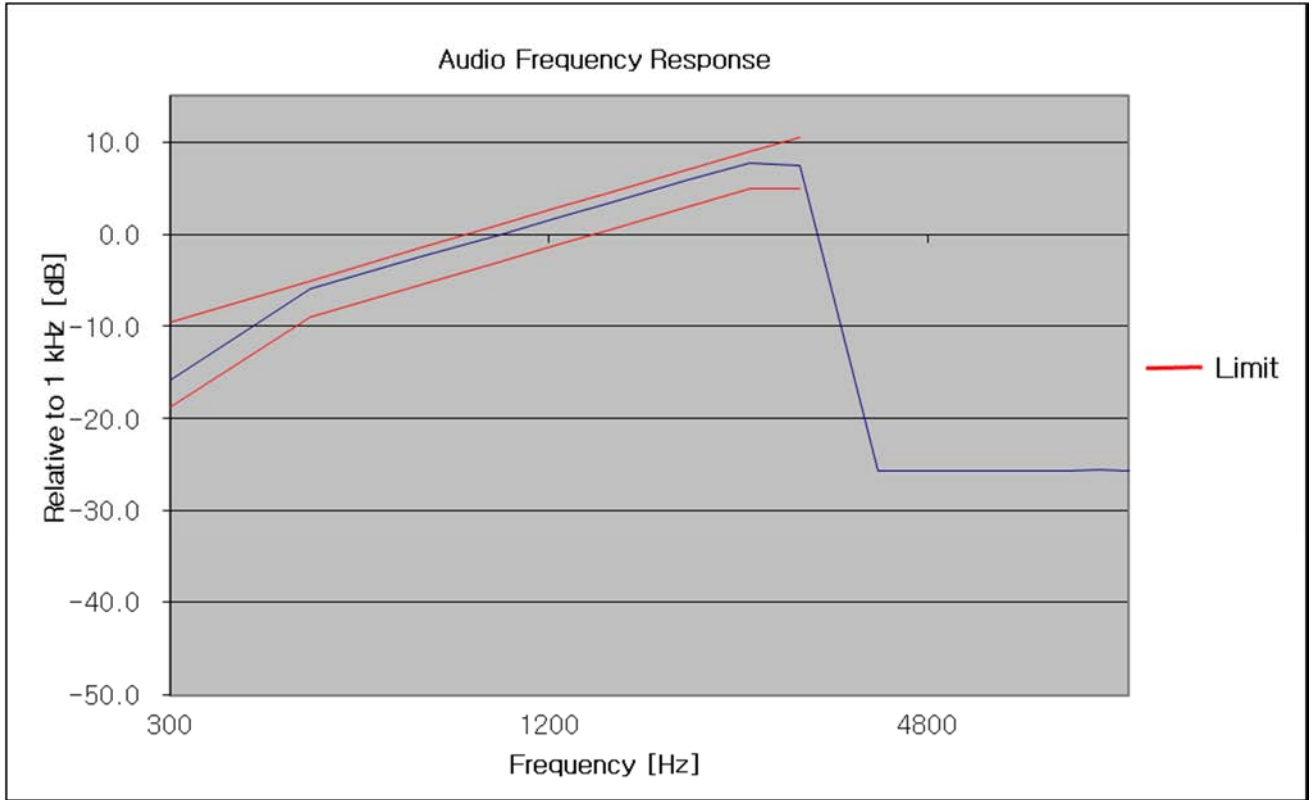
469.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -16.08                           | -9.46            | -18.69           |
| 500            | -6.04                            | -5.02            | -9.02            |
| 750            | -2.51                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.88                             | 2.94             | -1.06            |
| 1500           | 3.46                             | 4.52             | 0.52             |
| 2000           | 5.91                             | 7.02             | 3.02             |
| 2500           | 7.69                             | 8.96             | 4.96             |
| 3000           | 7.43                             | 10.54            | 4.96             |
| 4000           | -26.49                           | -                | -                |
| 5000           | -26.53                           | -                | -                |
| 6000           | -26.54                           | -                | -                |
| 7000           | -26.42                           | -                | -                |
| 8000           | -26.59                           | -                | -                |
| 9000           | -26.58                           | -                | -                |
| 10000          | -26.46                           | -                | -                |
| 20000          | -26.54                           | -                | -                |
| 30000          | -26.48                           | -                | -                |
| 40000          | -26.56                           | -                | -                |



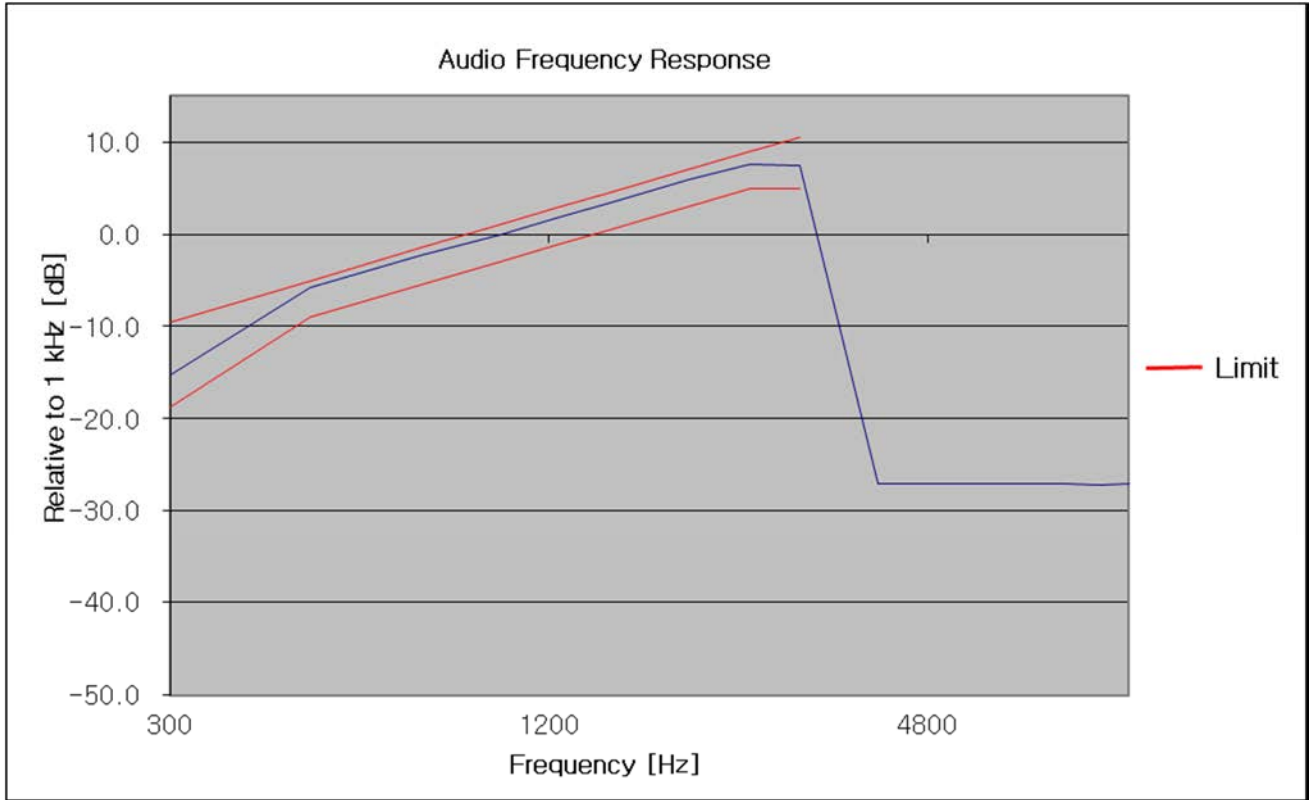
511.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.79                           | -9.46            | -18.69           |
| 500            | -5.87                            | -5.02            | -9.02            |
| 750            | -2.40                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.92                             | 2.94             | -1.06            |
| 1500           | 3.49                             | 4.52             | 0.52             |
| 2000           | 5.92                             | 7.02             | 3.02             |
| 2500           | 7.68                             | 8.96             | 4.96             |
| 3000           | 7.43                             | 10.54            | 4.96             |
| 4000           | -25.68                           | -                | -                |
| 5000           | -25.66                           | -                | -                |
| 6000           | -25.60                           | -                | -                |
| 7000           | -25.59                           | -                | -                |
| 8000           | -25.65                           | -                | -                |
| 9000           | -25.57                           | -                | -                |
| 10000          | -25.65                           | -                | -                |
| 20000          | -25.62                           | -                | -                |
| 30000          | -25.65                           | -                | -                |
| 40000          | -25.71                           | -                | -                |



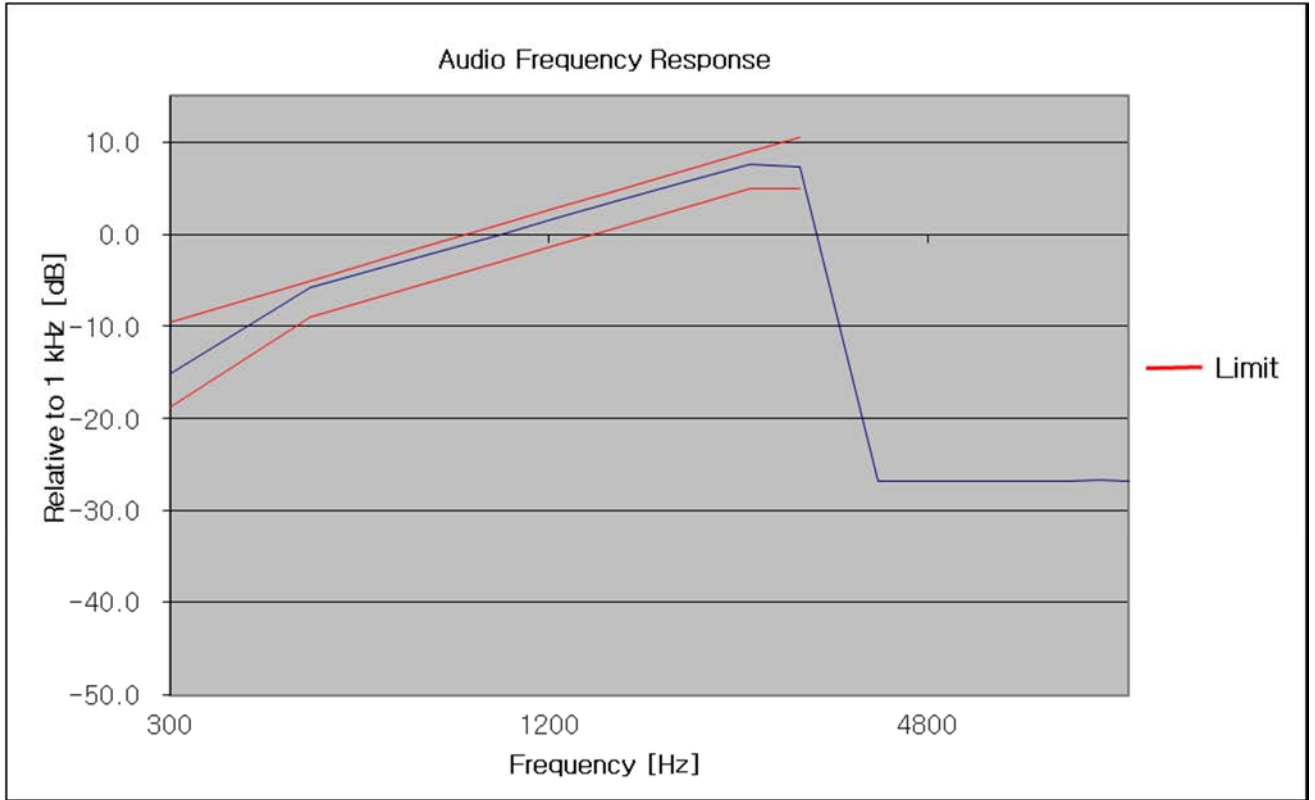
768.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.27                           | -9.46            | -18.69           |
| 500            | -5.80                            | -5.02            | -9.02            |
| 750            | -2.34                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.92                             | 2.94             | -1.06            |
| 1500           | 3.47                             | 4.52             | 0.52             |
| 2000           | 5.89                             | 7.02             | 3.02             |
| 2500           | 7.65                             | 8.96             | 4.96             |
| 3000           | 7.39                             | 10.54            | 4.96             |
| 4000           | -27.06                           | -                | -                |
| 5000           | -27.10                           | -                | -                |
| 6000           | -27.05                           | -                | -                |
| 7000           | -27.01                           | -                | -                |
| 8000           | -27.05                           | -                | -                |
| 9000           | -27.13                           | -                | -                |
| 10000          | -27.09                           | -                | -                |
| 20000          | -27.06                           | -                | -                |
| 30000          | -27.03                           | -                | -                |
| 40000          | -27.20                           | -                | -                |



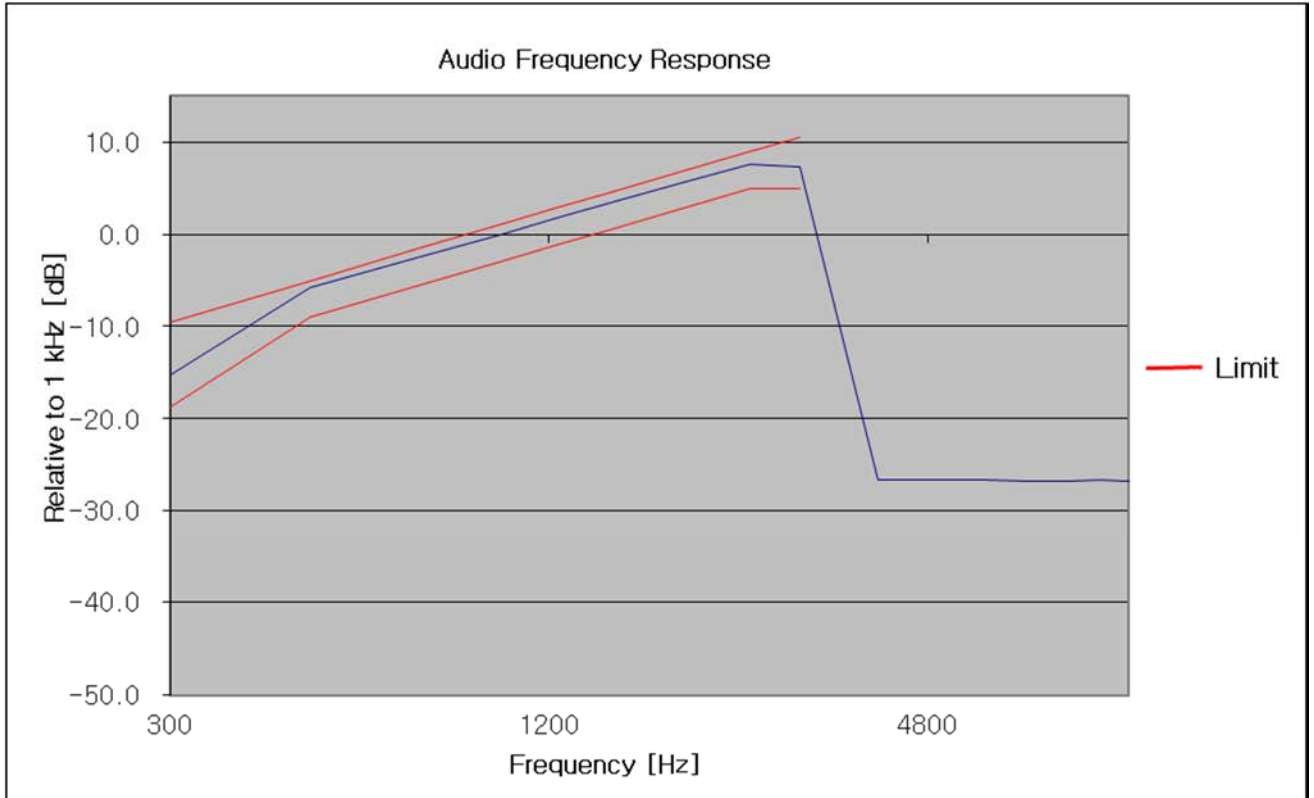
769.06 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.13                           | -9.46            | -18.69           |
| 500            | -5.70                            | -5.02            | -9.02            |
| 750            | -2.39                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.83                             | 2.94             | -1.06            |
| 1500           | 3.37                             | 4.52             | 0.52             |
| 2000           | 5.78                             | 7.02             | 3.02             |
| 2500           | 7.54                             | 8.96             | 4.96             |
| 3000           | 7.28                             | 10.54            | 4.96             |
| 4000           | -26.74                           | -                | -                |
| 5000           | -26.74                           | -                | -                |
| 6000           | -26.73                           | -                | -                |
| 7000           | -26.74                           | -                | -                |
| 8000           | -26.76                           | -                | -                |
| 9000           | -26.66                           | -                | -                |
| 10000          | -26.81                           | -                | -                |
| 20000          | -26.79                           | -                | -                |
| 30000          | -26.69                           | -                | -                |
| 40000          | -26.84                           | -                | -                |



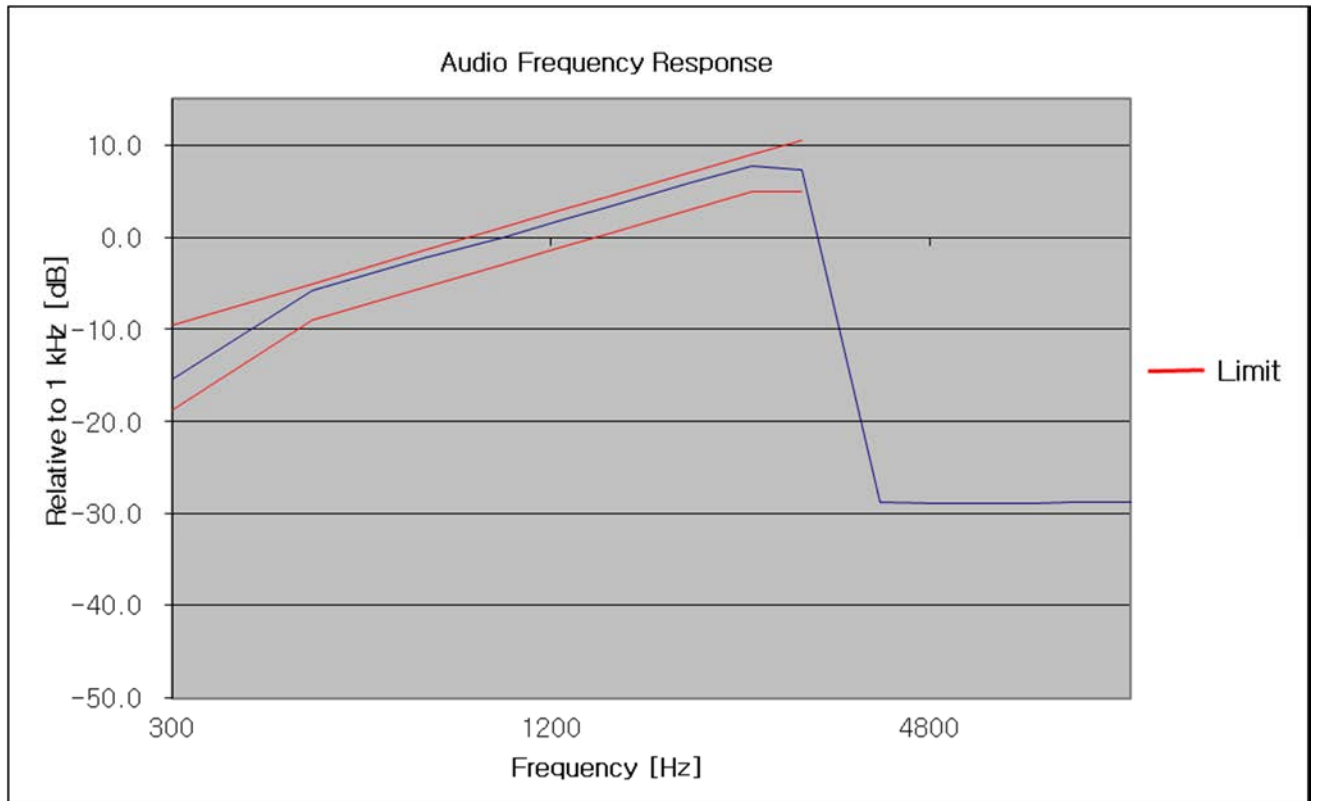
774.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.23                           | -9.46            | -18.69           |
| 500            | -5.74                            | -5.02            | -9.02            |
| 750            | -2.36                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.83                             | 2.94             | -1.06            |
| 1500           | 3.37                             | 4.52             | 0.52             |
| 2000           | 5.78                             | 7.02             | 3.02             |
| 2500           | 7.54                             | 8.96             | 4.96             |
| 3000           | 7.28                             | 10.54            | 4.96             |
| 4000           | -26.63                           | -                | -                |
| 5000           | -26.65                           | -                | -                |
| 6000           | -26.66                           | -                | -                |
| 7000           | -26.79                           | -                | -                |
| 8000           | -26.81                           | -                | -                |
| 9000           | -26.57                           | -                | -                |
| 10000          | -26.75                           | -                | -                |
| 20000          | -26.73                           | -                | -                |
| 30000          | -26.75                           | -                | -                |
| 40000          | -26.76                           | -                | -                |



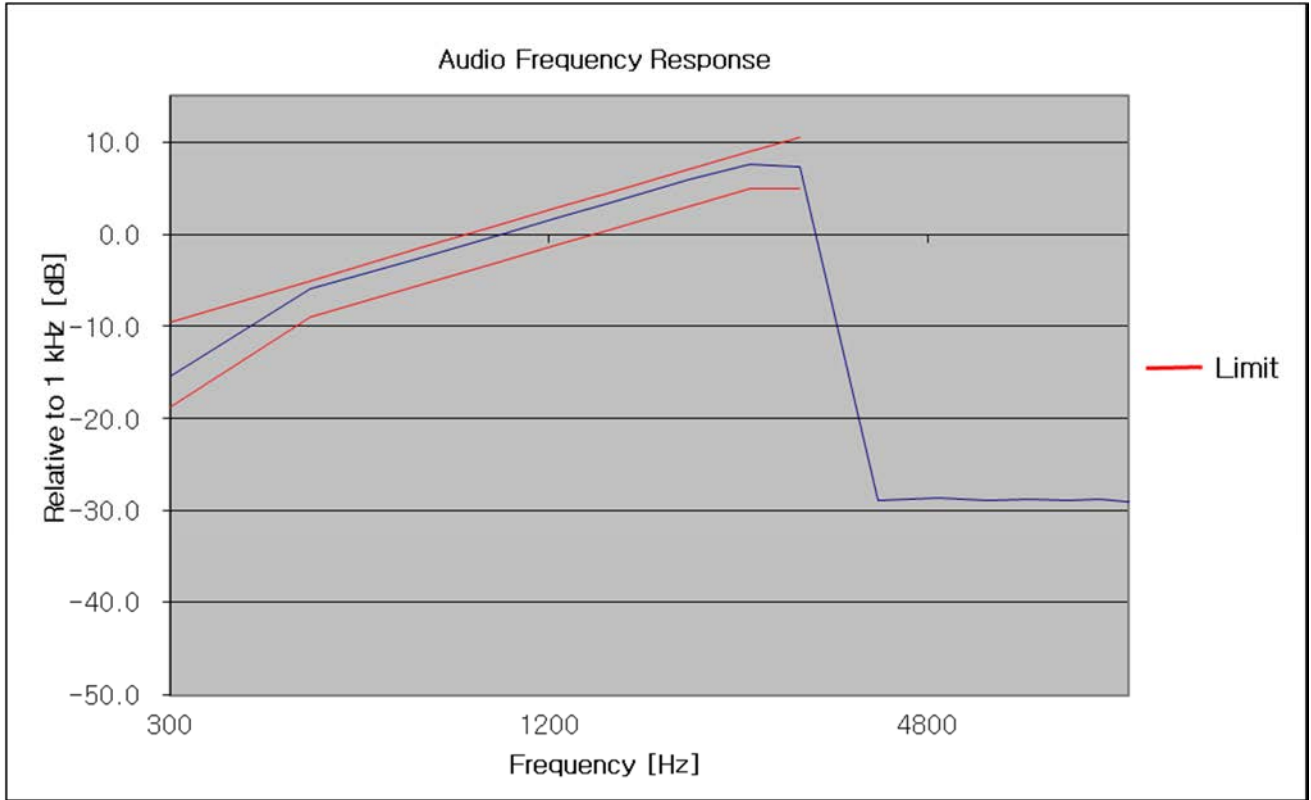
775.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.32                           | -9.46            | -18.69           |
| 500            | -5.76                            | -5.02            | -9.02            |
| 750            | -2.27                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.83                             | 2.94             | -1.06            |
| 1500           | 3.40                             | 4.52             | 0.52             |
| 2000           | 5.99                             | 7.02             | 3.02             |
| 2500           | 7.75                             | 8.96             | 4.96             |
| 3000           | 7.30                             | 10.54            | 4.96             |
| 4000           | -28.78                           | -                | -                |
| 5000           | -28.84                           | -                | -                |
| 6000           | -28.82                           | -                | -                |
| 7000           | -28.89                           | -                | -                |
| 8000           | -28.66                           | -                | -                |
| 9000           | -28.70                           | -                | -                |
| 10000          | -28.66                           | -                | -                |
| 20000          | -28.70                           | -                | -                |
| 30000          | -28.82                           | -                | -                |
| 40000          | -28.95                           | -                | -                |



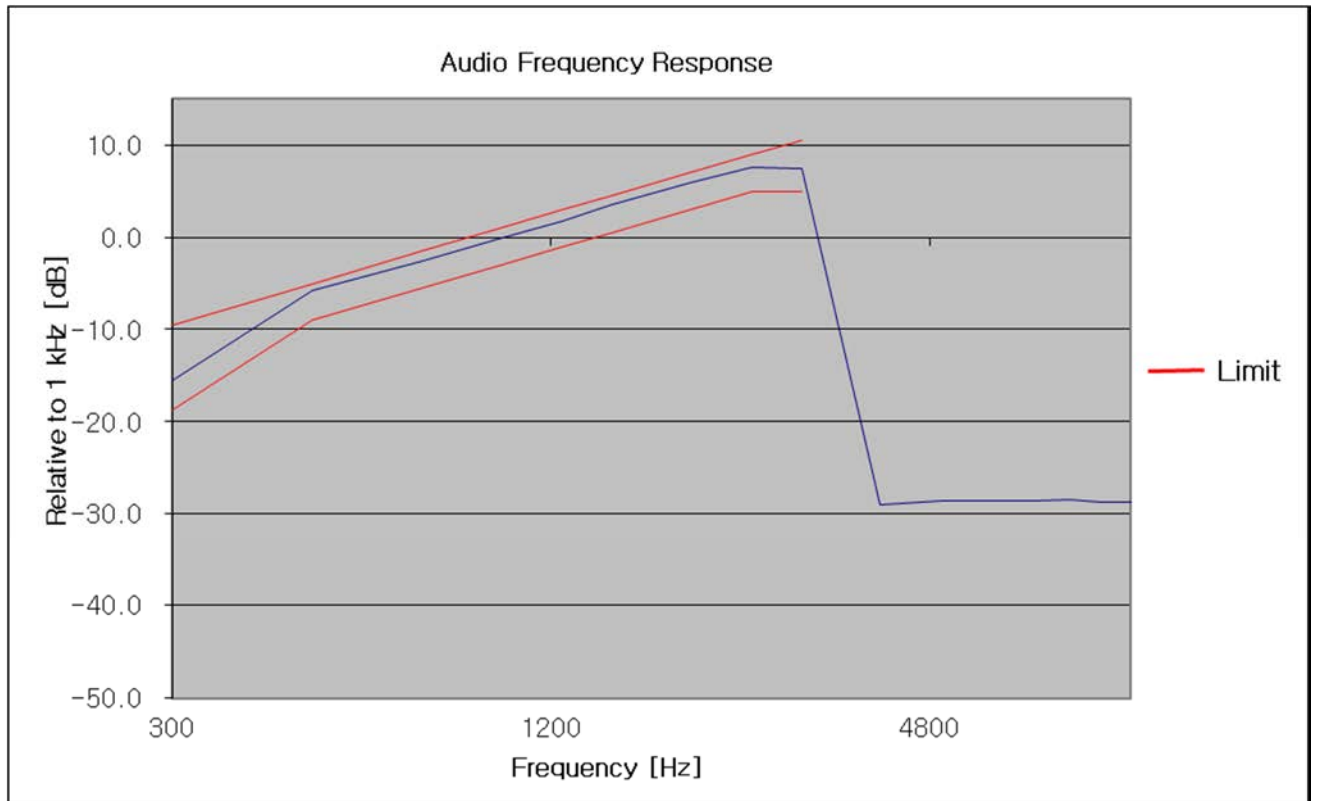
798.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.43                           | -9.46            | -18.69           |
| 500            | -5.93                            | -5.02            | -9.02            |
| 750            | -2.55                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.92                             | 2.94             | -1.06            |
| 1500           | 3.42                             | 4.52             | 0.52             |
| 2000           | 5.94                             | 7.02             | 3.02             |
| 2500           | 7.65                             | 8.96             | 4.96             |
| 3000           | 7.28                             | 10.54            | 4.96             |
| 4000           | -28.84                           | -                | -                |
| 5000           | -28.55                           | -                | -                |
| 6000           | -28.89                           | -                | -                |
| 7000           | -28.72                           | -                | -                |
| 8000           | -28.83                           | -                | -                |
| 9000           | -28.64                           | -                | -                |
| 10000          | -28.92                           | -                | -                |
| 20000          | -28.92                           | -                | -                |
| 30000          | -28.63                           | -                | -                |
| 40000          | -28.57                           | -                | -                |



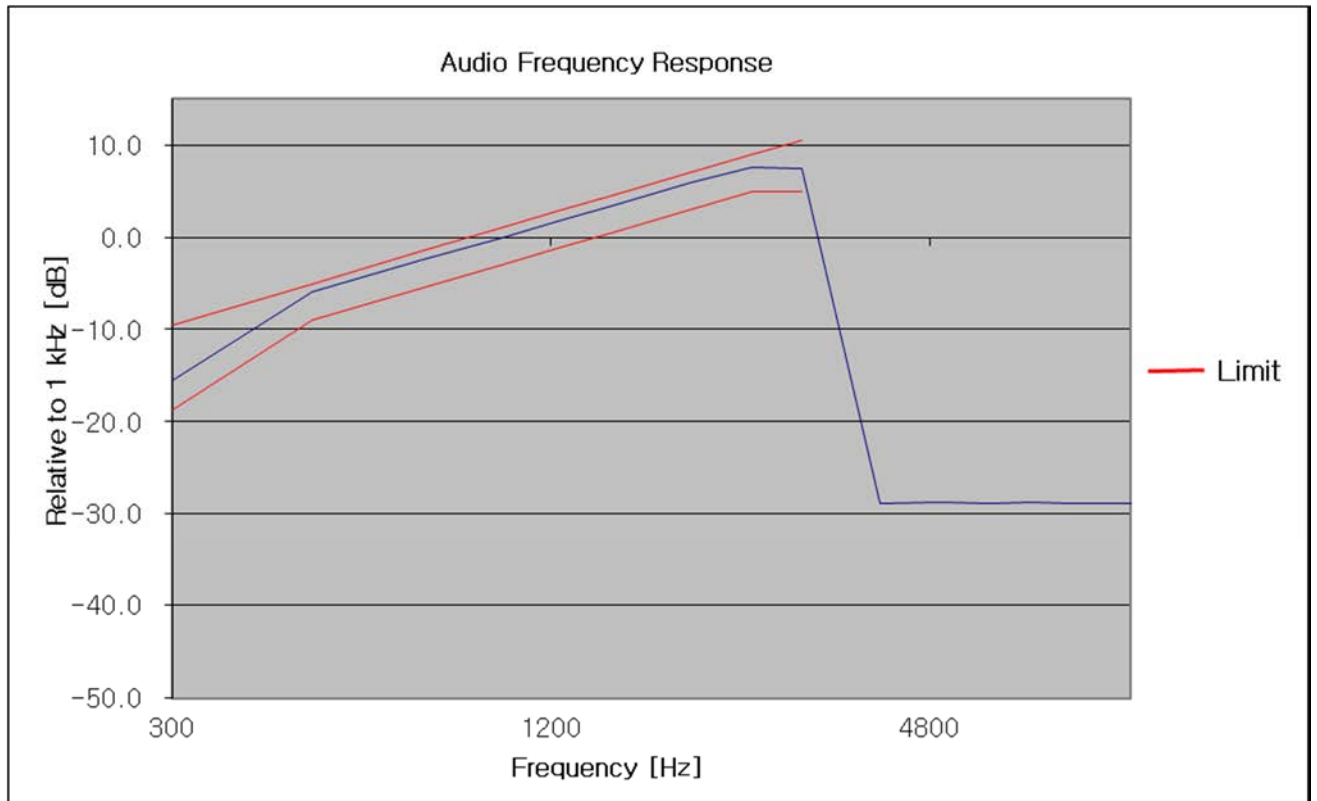
799.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.44                           | -9.46            | -18.69           |
| 500            | -5.77                            | -5.02            | -9.02            |
| 750            | -2.58                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.73                             | 2.94             | -1.06            |
| 1500           | 3.58                             | 4.52             | 0.52             |
| 2000           | 5.87                             | 7.02             | 3.02             |
| 2500           | 7.54                             | 8.96             | 4.96             |
| 3000           | 7.45                             | 10.54            | 4.96             |
| 4000           | -28.97                           | -                | -                |
| 5000           | -28.61                           | -                | -                |
| 6000           | -28.51                           | -                | -                |
| 7000           | -28.58                           | -                | -                |
| 8000           | -28.46                           | -                | -                |
| 9000           | -28.66                           | -                | -                |
| 10000          | -28.74                           | -                | -                |
| 20000          | -28.75                           | -                | -                |
| 30000          | -28.69                           | -                | -                |
| 40000          | -28.54                           | -                | -                |



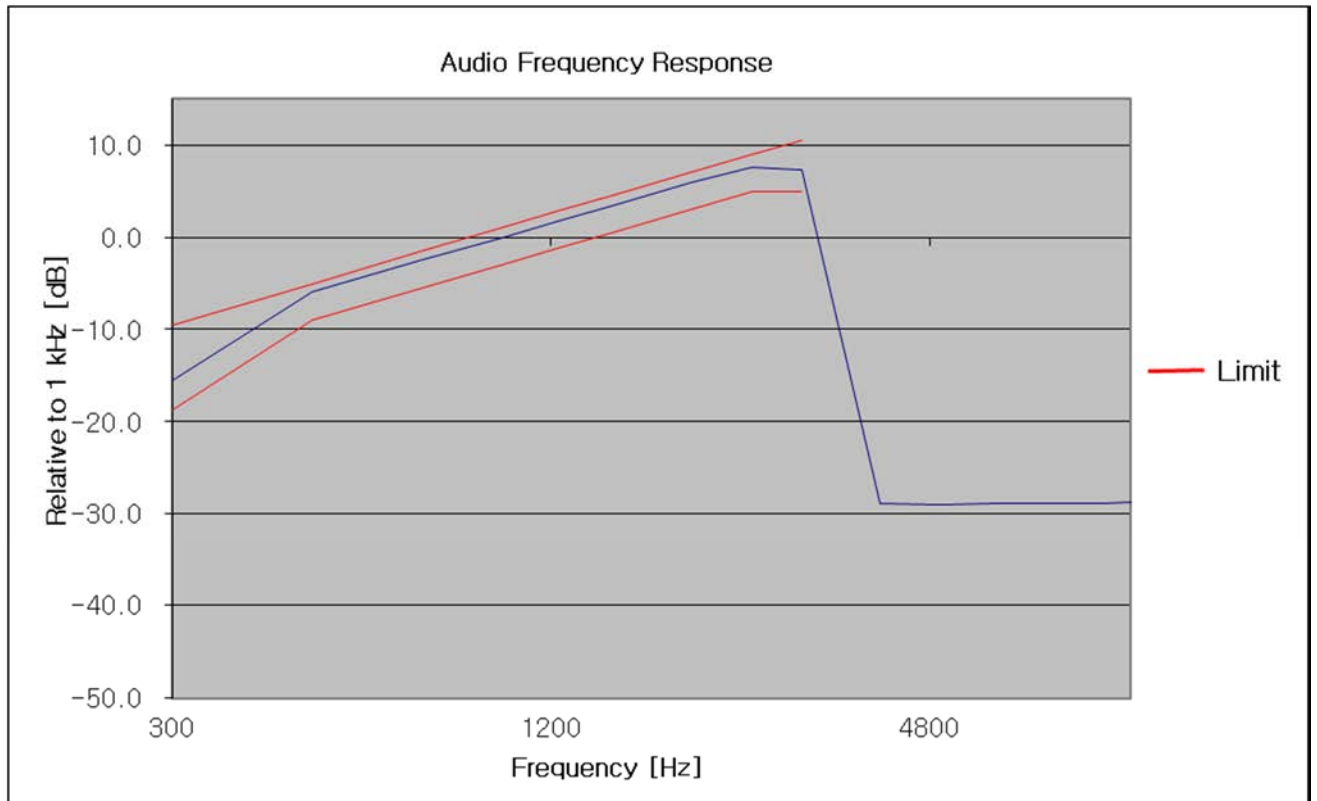
804.95MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.44                           | -9.46            | -18.69           |
| 500            | -5.83                            | -5.02            | -9.02            |
| 750            | -2.37                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.92                             | 2.94             | -1.06            |
| 1500           | 3.47                             | 4.52             | 0.52             |
| 2000           | 5.89                             | 7.02             | 3.02             |
| 2500           | 7.66                             | 8.96             | 4.96             |
| 3000           | 7.41                             | 10.54            | 4.96             |
| 4000           | -28.79                           | -                | -                |
| 5000           | -28.73                           | -                | -                |
| 6000           | -28.83                           | -                | -                |
| 7000           | -28.73                           | -                | -                |
| 8000           | -28.91                           | -                | -                |
| 9000           | -28.82                           | -                | -                |
| 10000          | -28.84                           | -                | -                |
| 20000          | -28.87                           | -                | -                |
| 30000          | -28.75                           | -                | -                |
| 40000          | -28.83                           | -                | -                |



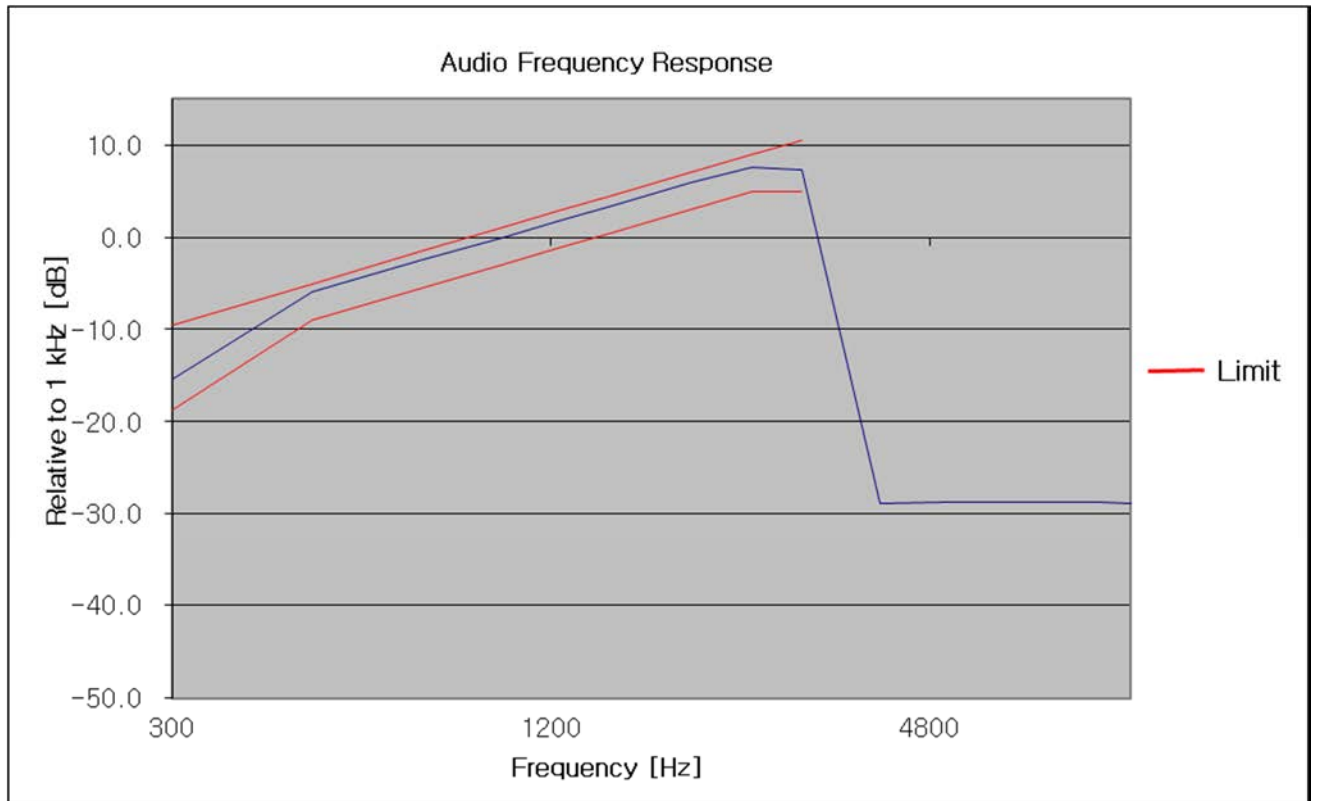
805.95MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.44                           | -9.46            | -18.69           |
| 500            | -5.87                            | -5.02            | -9.02            |
| 750            | -2.38                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.86                             | 2.94             | -1.06            |
| 1500           | 3.45                             | 4.52             | 0.52             |
| 2000           | 5.87                             | 7.02             | 3.02             |
| 2500           | 7.63                             | 8.96             | 4.96             |
| 3000           | 7.37                             | 10.54            | 4.96             |
| 4000           | -28.82                           | -                | -                |
| 5000           | -28.98                           | -                | -                |
| 6000           | -28.85                           | -                | -                |
| 7000           | -28.86                           | -                | -                |
| 8000           | -28.87                           | -                | -                |
| 9000           | -28.84                           | -                | -                |
| 10000          | -28.72                           | -                | -                |
| 20000          | -28.91                           | -                | -                |
| 30000          | -28.72                           | -                | -                |
| 40000          | -28.82                           | -                | -                |



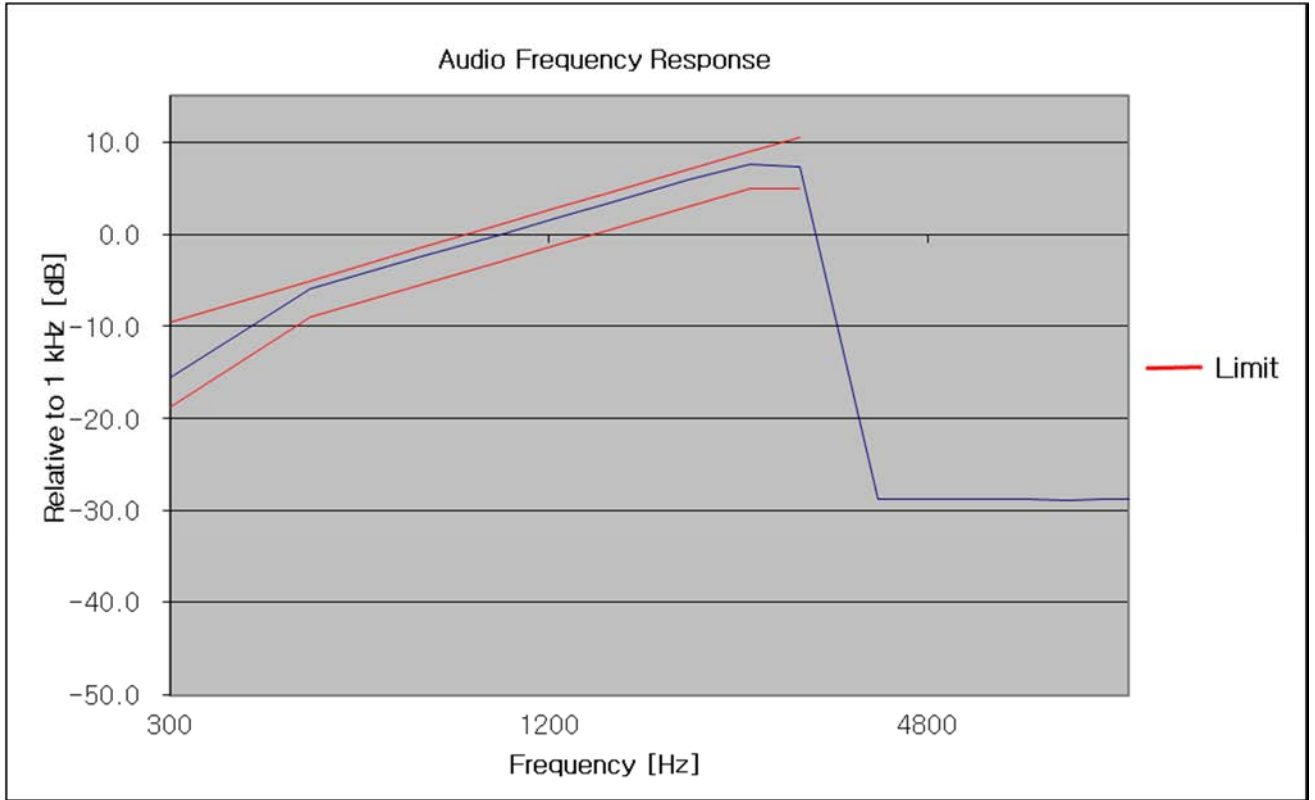
806.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.42                           | -9.46            | -18.69           |
| 500            | -5.86                            | -5.02            | -9.02            |
| 750            | -2.39                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.90                             | 2.94             | -1.06            |
| 1500           | 3.44                             | 4.52             | 0.52             |
| 2000           | 5.88                             | 7.02             | 3.02             |
| 2500           | 7.63                             | 8.96             | 4.96             |
| 3000           | 7.37                             | 10.54            | 4.96             |
| 4000           | -28.80                           | -                | -                |
| 5000           | -28.68                           | -                | -                |
| 6000           | -28.77                           | -                | -                |
| 7000           | -28.75                           | -                | -                |
| 8000           | -28.75                           | -                | -                |
| 9000           | -28.71                           | -                | -                |
| 10000          | -28.79                           | -                | -                |
| 20000          | -28.77                           | -                | -                |
| 30000          | -28.78                           | -                | -                |
| 40000          | -28.76                           | -                | -                |



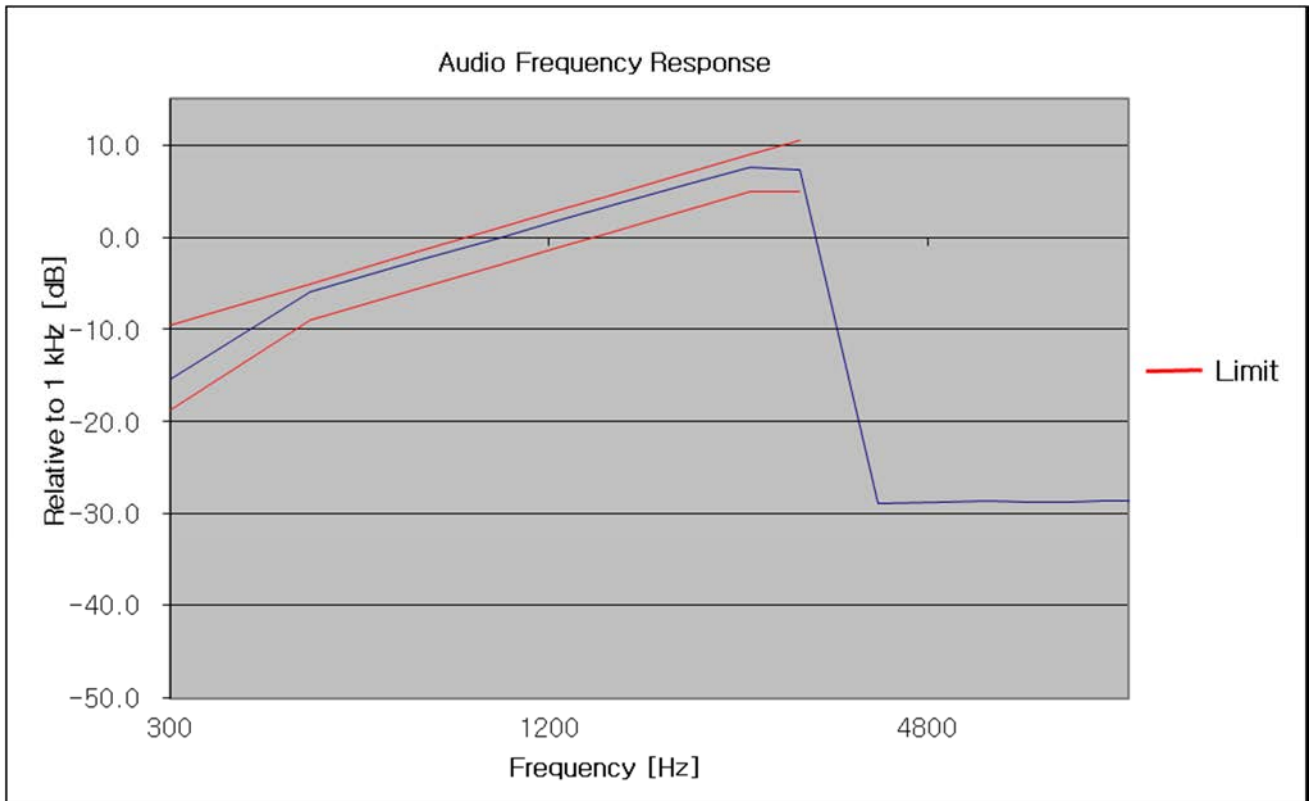
815.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.46                           | -9.46            | -18.69           |
| 500            | -5.89                            | -5.02            | -9.02            |
| 750            | -2.45                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.87                             | 2.94             | -1.06            |
| 1500           | 3.44                             | 4.52             | 0.52             |
| 2000           | 5.87                             | 7.02             | 3.02             |
| 2500           | 7.62                             | 8.96             | 4.96             |
| 3000           | 7.36                             | 10.54            | 4.96             |
| 4000           | -28.76                           | -                | -                |
| 5000           | -28.68                           | -                | -                |
| 6000           | -28.72                           | -                | -                |
| 7000           | -28.73                           | -                | -                |
| 8000           | -28.85                           | -                | -                |
| 9000           | -28.70                           | -                | -                |
| 10000          | -28.73                           | -                | -                |
| 20000          | -28.73                           | -                | -                |
| 30000          | -28.62                           | -                | -                |
| 40000          | -28.66                           | -                | -                |



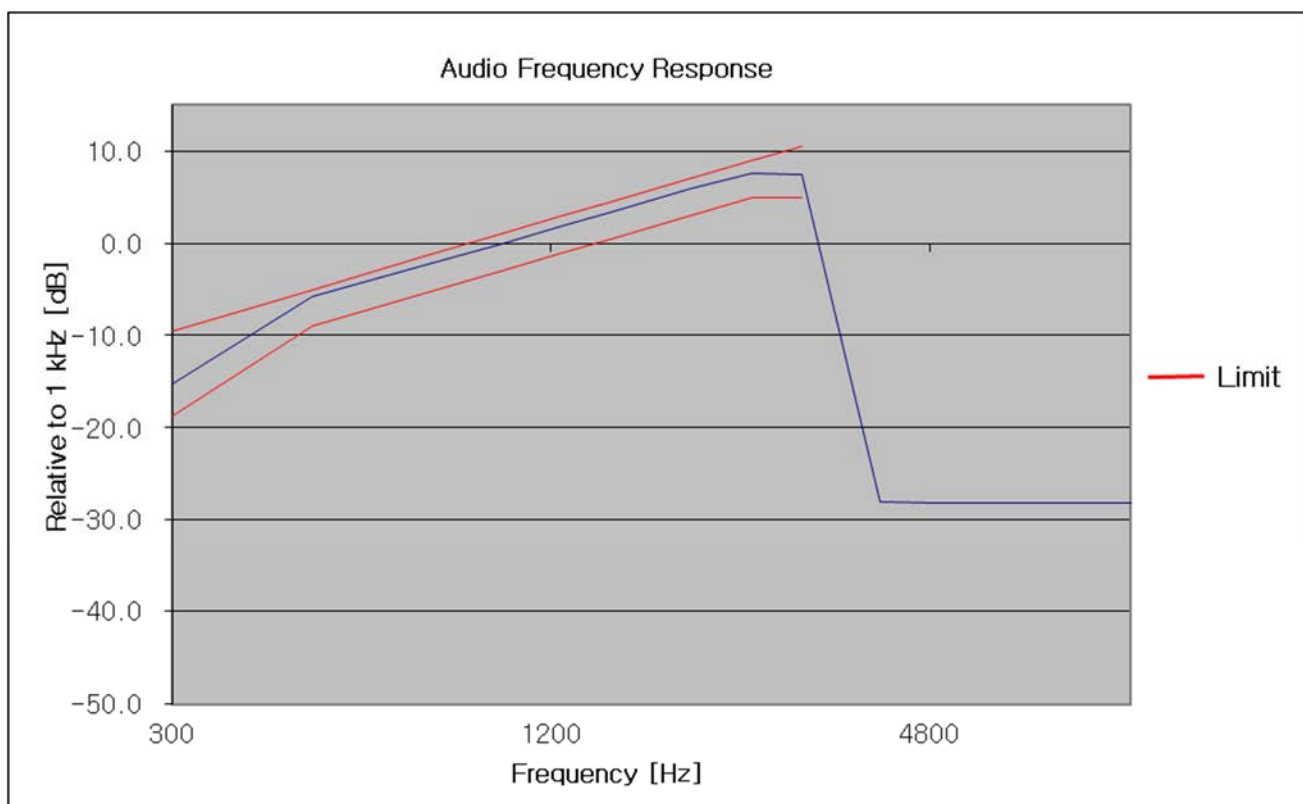
823.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.40                           | -9.46            | -18.69           |
| 500            | -5.93                            | -5.02            | -9.02            |
| 750            | -2.44                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.88                             | 2.94             | -1.06            |
| 1500           | 3.44                             | 4.52             | 0.52             |
| 2000           | 5.85                             | 7.02             | 3.02             |
| 2500           | 7.62                             | 8.96             | 4.96             |
| 3000           | 7.36                             | 10.54            | 4.96             |
| 4000           | -28.82                           | -                | -                |
| 5000           | -28.74                           | -                | -                |
| 6000           | -28.63                           | -                | -                |
| 7000           | -28.69                           | -                | -                |
| 8000           | -28.65                           | -                | -                |
| 9000           | -28.64                           | -                | -                |
| 10000          | -28.63                           | -                | -                |
| 20000          | -28.67                           | -                | -                |
| 30000          | -28.75                           | -                | -                |
| 40000          | -28.69                           | -                | -                |



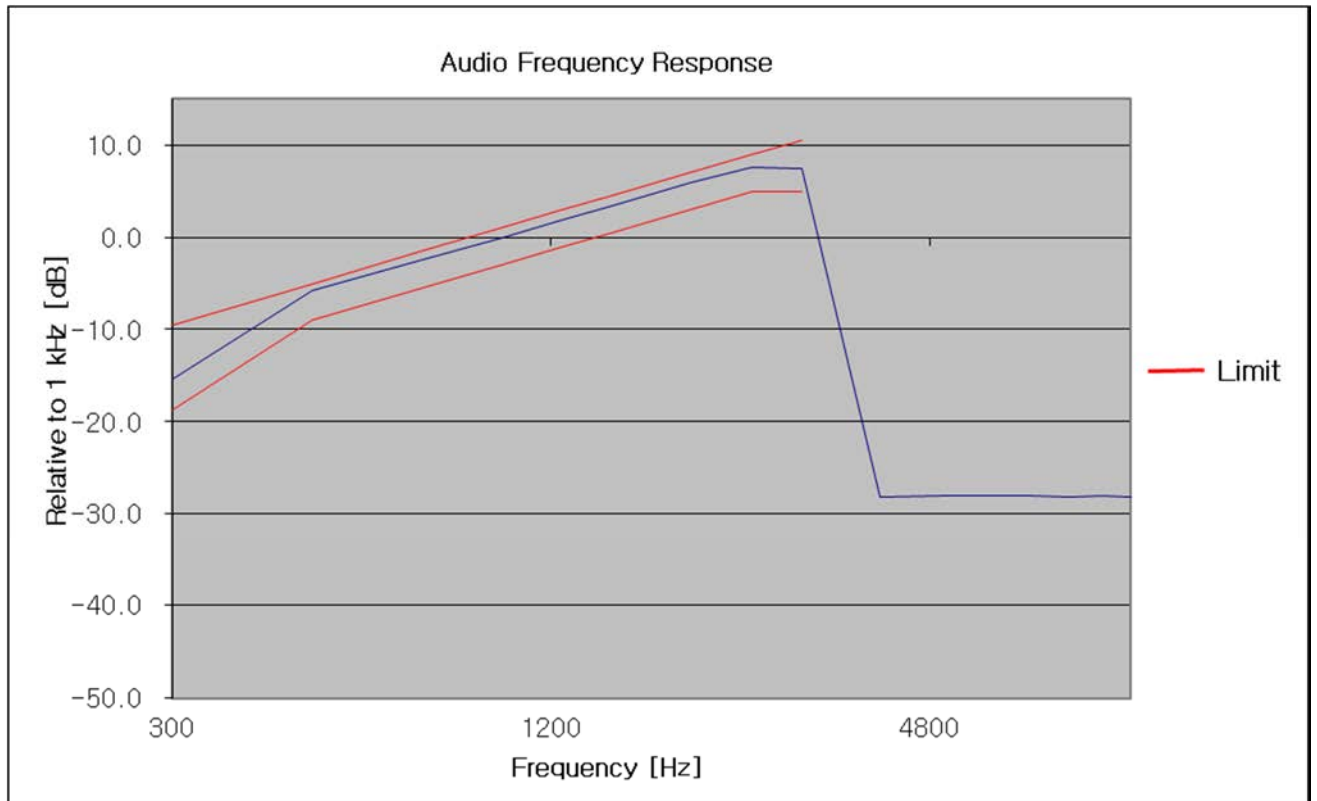
851.05MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.22                           | -9.46            | -18.69           |
| 500            | -5.82                            | -5.02            | -9.02            |
| 750            | -2.43                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.88                             | 2.94             | -1.06            |
| 1500           | 3.43                             | 4.52             | 0.52             |
| 2000           | 5.87                             | 7.02             | 3.02             |
| 2500           | 7.65                             | 8.96             | 4.96             |
| 3000           | 7.40                             | 10.54            | 4.96             |
| 4000           | -28.07                           | -                | -                |
| 5000           | -28.12                           | -                | -                |
| 6000           | -28.11                           | -                | -                |
| 7000           | -28.11                           | -                | -                |
| 8000           | -28.12                           | -                | -                |
| 9000           | -28.17                           | -                | -                |
| 10000          | -28.15                           | -                | -                |
| 20000          | -28.12                           | -                | -                |
| 30000          | -28.05                           | -                | -                |
| 40000          | -28.15                           | -                | -                |



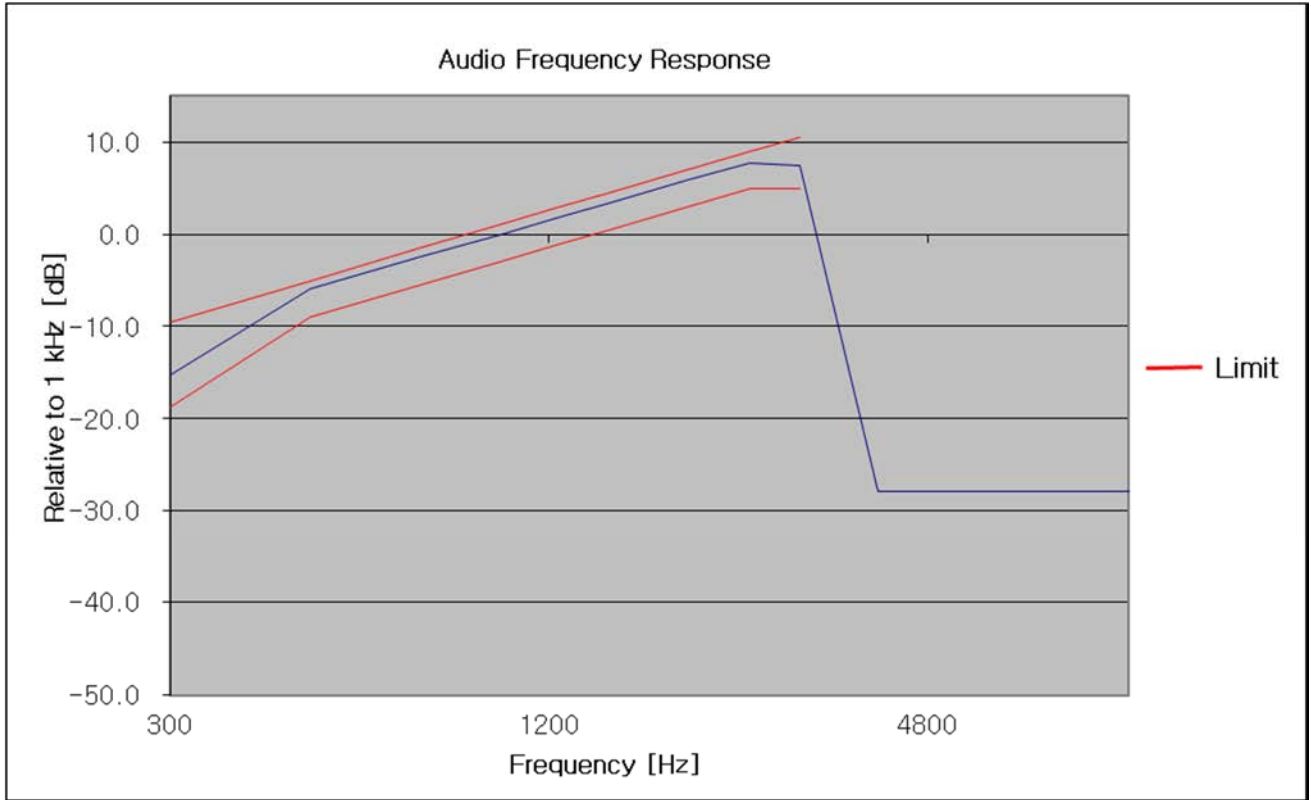
860.05MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.30                           | -9.46            | -18.69           |
| 500            | -5.80                            | -5.02            | -9.02            |
| 750            | -2.43                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.86                             | 2.94             | -1.06            |
| 1500           | 3.41                             | 4.52             | 0.52             |
| 2000           | 5.86                             | 7.02             | 3.02             |
| 2500           | 7.65                             | 8.96             | 4.96             |
| 3000           | 7.40                             | 10.54            | 4.96             |
| 4000           | -28.13                           | -                | -                |
| 5000           | -28.01                           | -                | -                |
| 6000           | -28.08                           | -                | -                |
| 7000           | -28.04                           | -                | -                |
| 8000           | -28.10                           | -                | -                |
| 9000           | -28.03                           | -                | -                |
| 10000          | -28.12                           | -                | -                |
| 20000          | -28.08                           | -                | -                |
| 30000          | -28.01                           | -                | -                |
| 40000          | -28.10                           | -                | -                |



868.95MHz

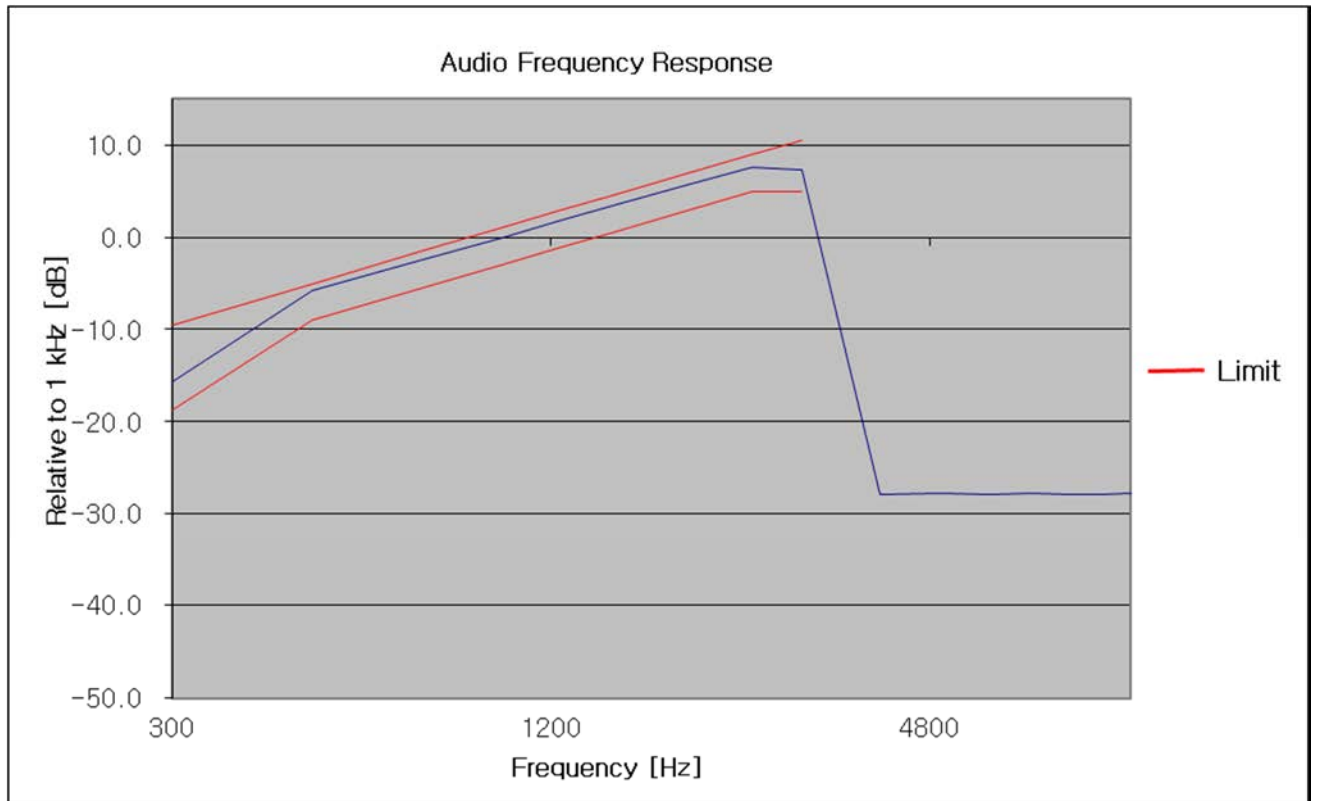
| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.19                           | -9.46            | -18.69           |
| 500            | -5.91                            | -5.02            | -9.02            |
| 750            | -2.39                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.86                             | 2.94             | -1.06            |
| 1500           | 3.46                             | 4.52             | 0.52             |
| 2000           | 5.94                             | 7.02             | 3.02             |
| 2500           | 7.72                             | 8.96             | 4.96             |
| 3000           | 7.50                             | 10.54            | 4.96             |
| 4000           | -27.86                           | -                | -                |
| 5000           | -27.85                           | -                | -                |
| 6000           | -27.87                           | -                | -                |
| 7000           | -27.86                           | -                | -                |
| 8000           | -27.86                           | -                | -                |
| 9000           | -27.86                           | -                | -                |
| 10000          | -27.83                           | -                | -                |
| 20000          | -27.84                           | -                | -                |
| 30000          | -27.68                           | -                | -                |
| 40000          | -26.95                           | -                | -                |



14K0F3E\_HIGH POWER

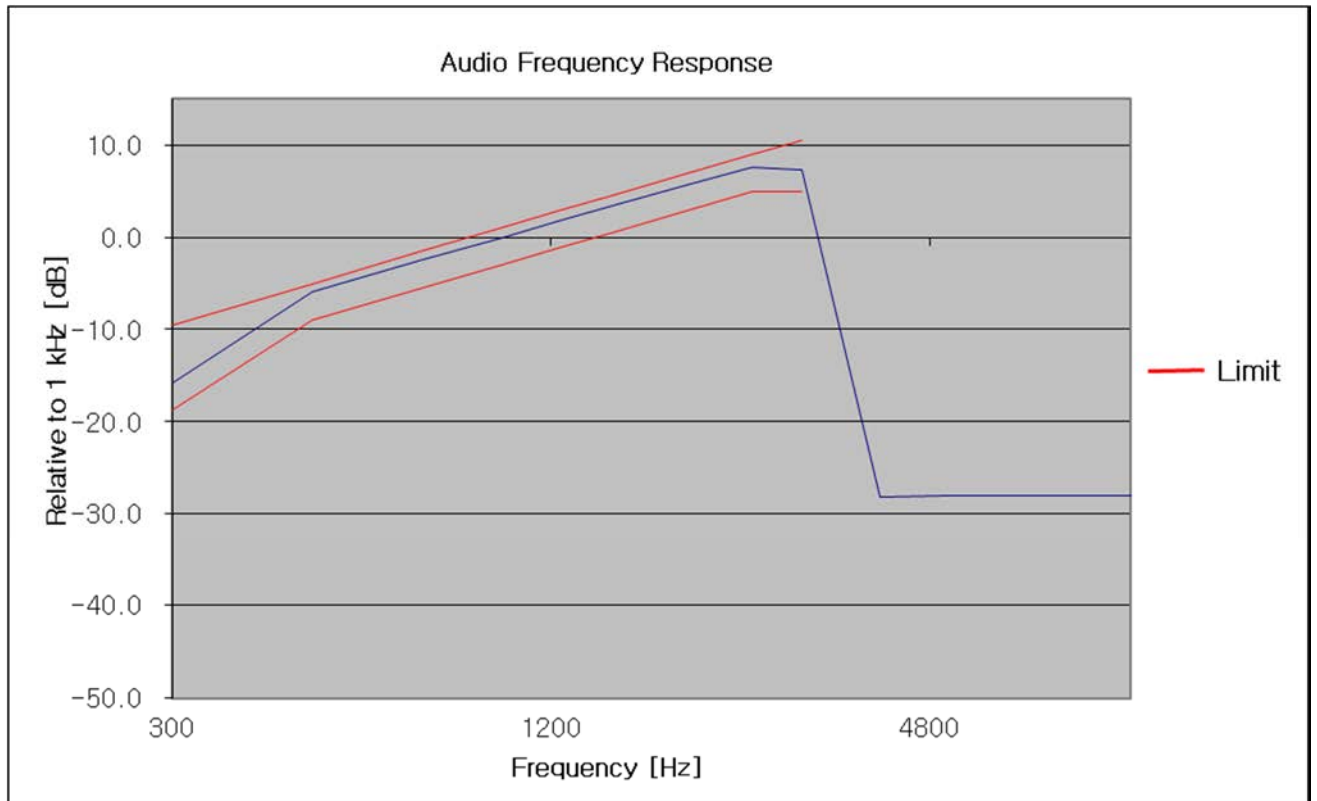
768.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.67                           | -9.46            | -18.69           |
| 500            | -5.76                            | -5.02            | -9.02            |
| 750            | -2.37                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.86                             | 2.94             | -1.06            |
| 1500           | 3.40                             | 4.52             | 0.52             |
| 2000           | 5.85                             | 7.02             | 3.02             |
| 2500           | 7.60                             | 8.96             | 4.96             |
| 3000           | 7.35                             | 10.54            | 4.96             |
| 4000           | -27.86                           | -                | -                |
| 5000           | -27.76                           | -                | -                |
| 6000           | -27.86                           | -                | -                |
| 7000           | -27.75                           | -                | -                |
| 8000           | -27.83                           | -                | -                |
| 9000           | -27.93                           | -                | -                |
| 10000          | -27.78                           | -                | -                |
| 20000          | -27.85                           | -                | -                |
| 30000          | -27.78                           | -                | -                |
| 40000          | -27.93                           | -                | -                |



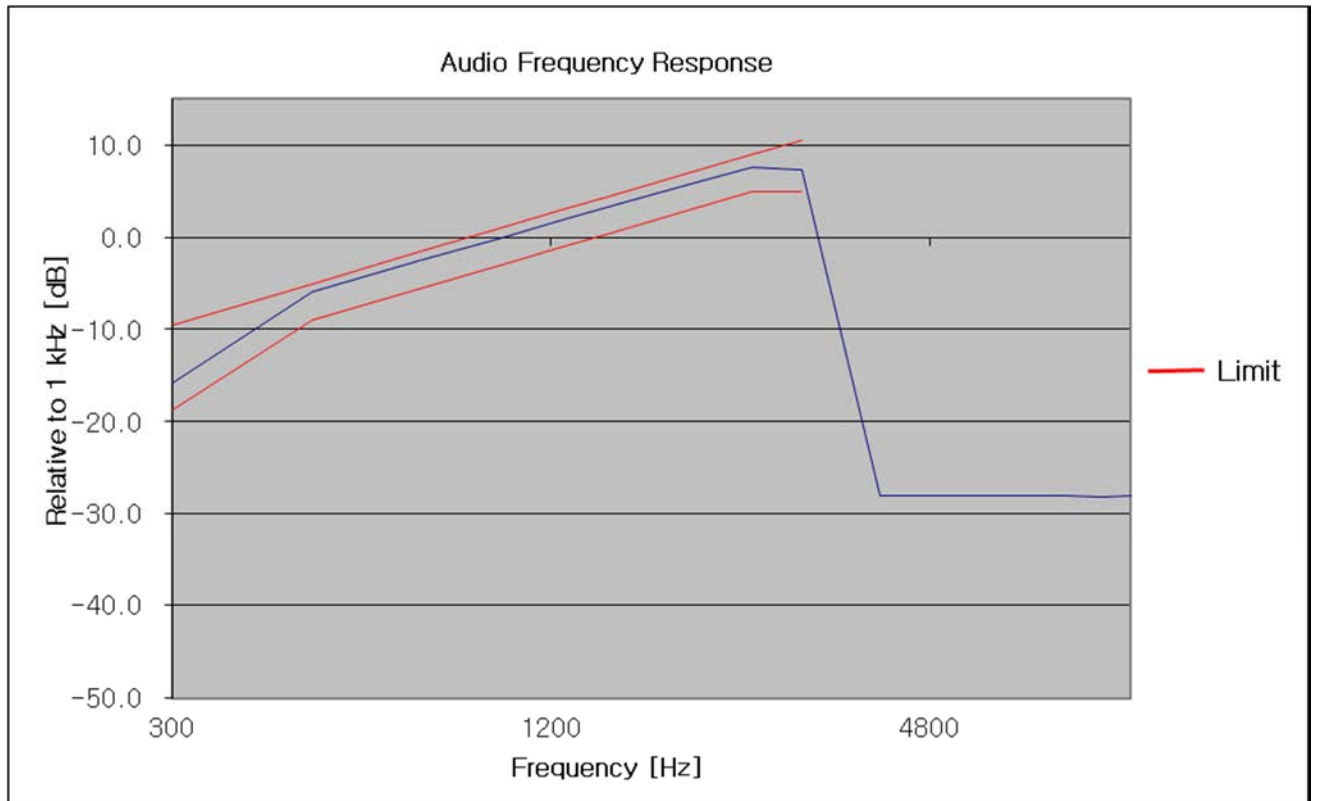
769.06 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.81                           | -9.46            | -18.69           |
| 500            | -5.83                            | -5.02            | -9.02            |
| 750            | -2.41                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.86                             | 2.94             | -1.06            |
| 1500           | 3.41                             | 4.52             | 0.52             |
| 2000           | 5.84                             | 7.02             | 3.02             |
| 2500           | 7.60                             | 8.96             | 4.96             |
| 3000           | 7.35                             | 10.54            | 4.96             |
| 4000           | -28.10                           | -                | -                |
| 5000           | -28.02                           | -                | -                |
| 6000           | -28.04                           | -                | -                |
| 7000           | -28.00                           | -                | -                |
| 8000           | -28.00                           | -                | -                |
| 9000           | -28.06                           | -                | -                |
| 10000          | -28.03                           | -                | -                |
| 20000          | -28.00                           | -                | -                |
| 30000          | -28.08                           | -                | -                |
| 40000          | -28.08                           | -                | -                |



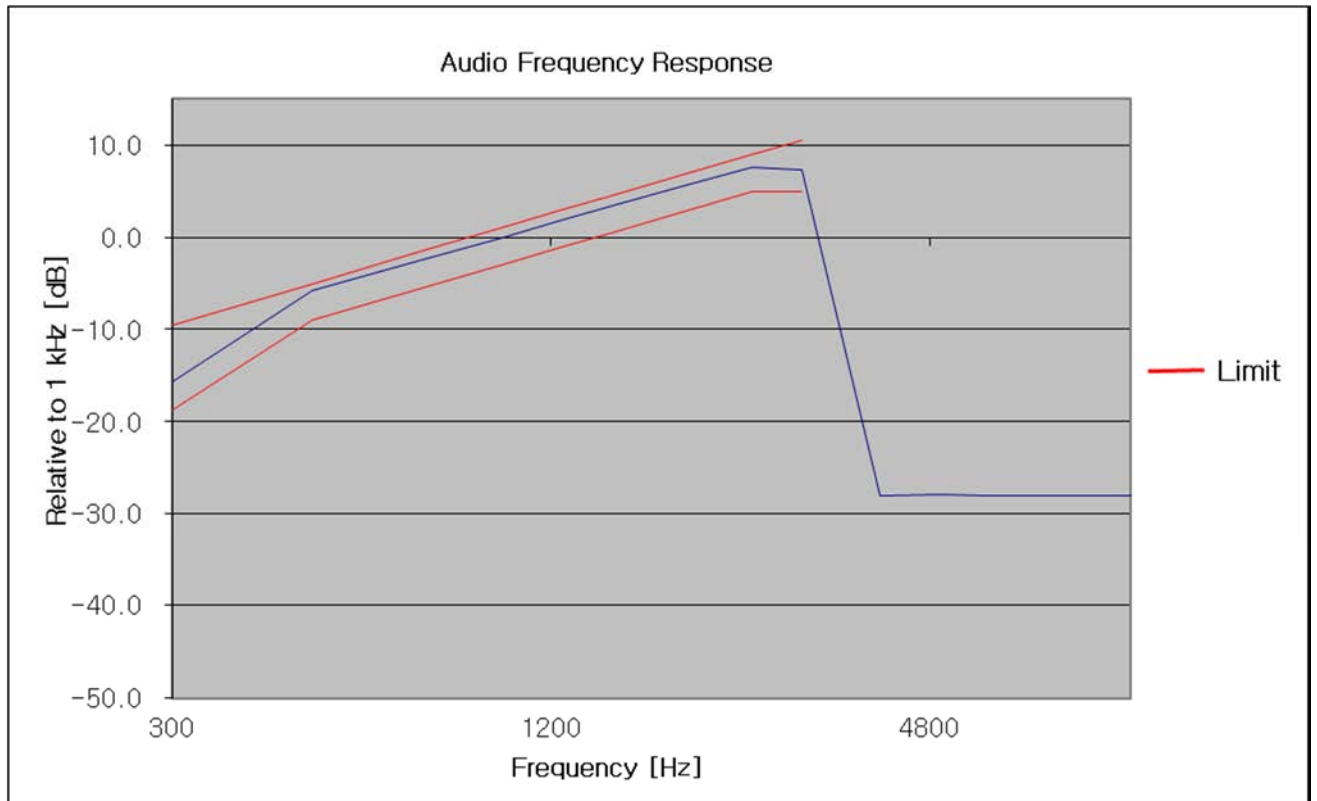
774.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.75                           | -9.46            | -18.69           |
| 500            | -5.91                            | -5.02            | -9.02            |
| 750            | -2.46                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.85                             | 2.94             | -1.06            |
| 1500           | 3.39                             | 4.52             | 0.52             |
| 2000           | 5.84                             | 7.02             | 3.02             |
| 2500           | 7.60                             | 8.96             | 4.96             |
| 3000           | 7.35                             | 10.54            | 4.96             |
| 4000           | -27.99                           | -                | -                |
| 5000           | -28.05                           | -                | -                |
| 6000           | -28.08                           | -                | -                |
| 7000           | -28.01                           | -                | -                |
| 8000           | -28.08                           | -                | -                |
| 9000           | -28.10                           | -                | -                |
| 10000          | -28.01                           | -                | -                |
| 20000          | -28.02                           | -                | -                |
| 30000          | -28.15                           | -                | -                |
| 40000          | -28.05                           | -                | -                |



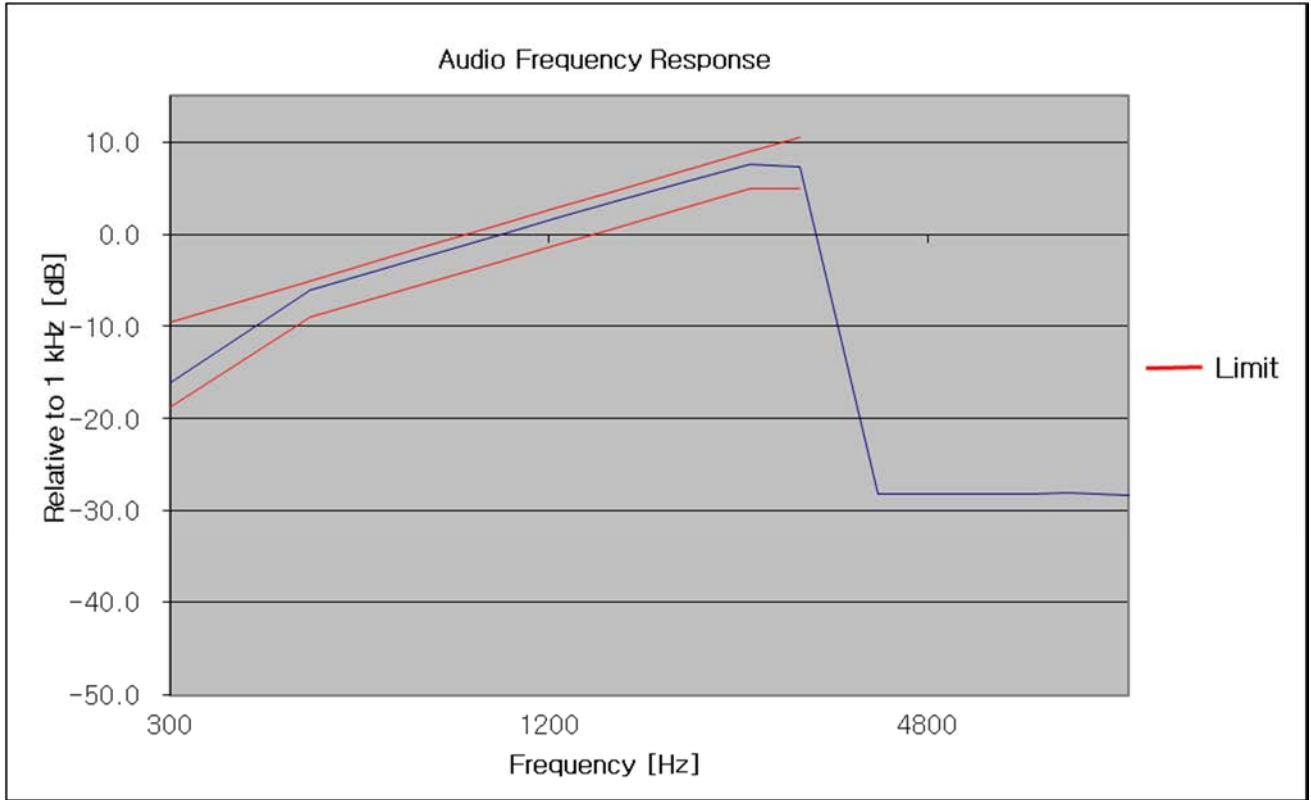
775.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.68                           | -9.46            | -18.69           |
| 500            | -5.80                            | -5.02            | -9.02            |
| 750            | -2.41                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.86                             | 2.94             | -1.06            |
| 1500           | 3.38                             | 4.52             | 0.52             |
| 2000           | 5.82                             | 7.02             | 3.02             |
| 2500           | 7.58                             | 8.96             | 4.96             |
| 3000           | 7.32                             | 10.54            | 4.96             |
| 4000           | -28.04                           | -                | -                |
| 5000           | -27.90                           | -                | -                |
| 6000           | -28.00                           | -                | -                |
| 7000           | -28.03                           | -                | -                |
| 8000           | -27.96                           | -                | -                |
| 9000           | -27.96                           | -                | -                |
| 10000          | -27.99                           | -                | -                |
| 20000          | -28.01                           | -                | -                |
| 30000          | -27.96                           | -                | -                |
| 40000          | -27.99                           | -                | -                |



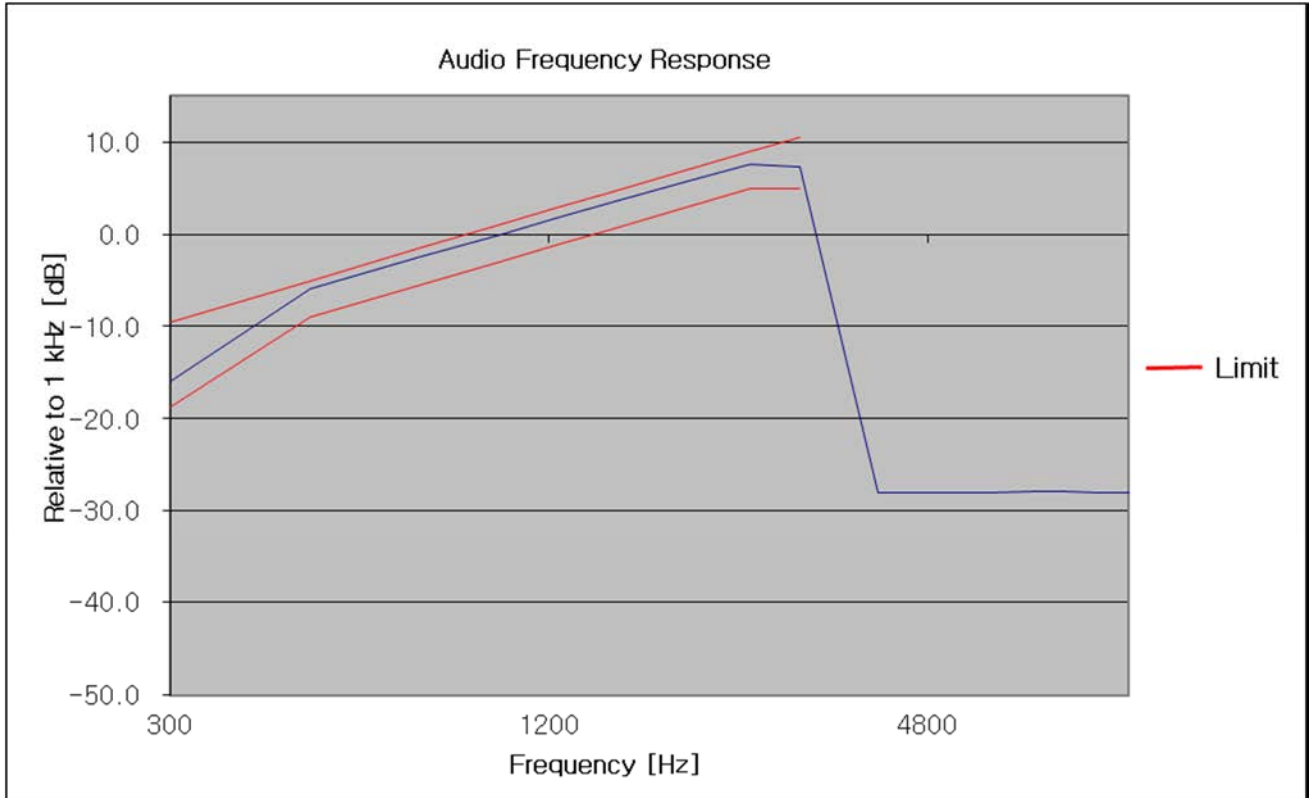
798.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -16.02                           | -9.46            | -18.69           |
| 500            | -5.97                            | -5.02            | -9.02            |
| 750            | -2.50                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.83                             | 2.94             | -1.06            |
| 1500           | 3.39                             | 4.52             | 0.52             |
| 2000           | 5.84                             | 7.02             | 3.02             |
| 2500           | 7.60                             | 8.96             | 4.96             |
| 3000           | 7.35                             | 10.54            | 4.96             |
| 4000           | -28.22                           | -                | -                |
| 5000           | -28.17                           | -                | -                |
| 6000           | -28.11                           | -                | -                |
| 7000           | -28.15                           | -                | -                |
| 8000           | -28.02                           | -                | -                |
| 9000           | -28.10                           | -                | -                |
| 10000          | -28.28                           | -                | -                |
| 20000          | -28.08                           | -                | -                |
| 30000          | -28.14                           | -                | -                |
| 40000          | -28.06                           | -                | -                |



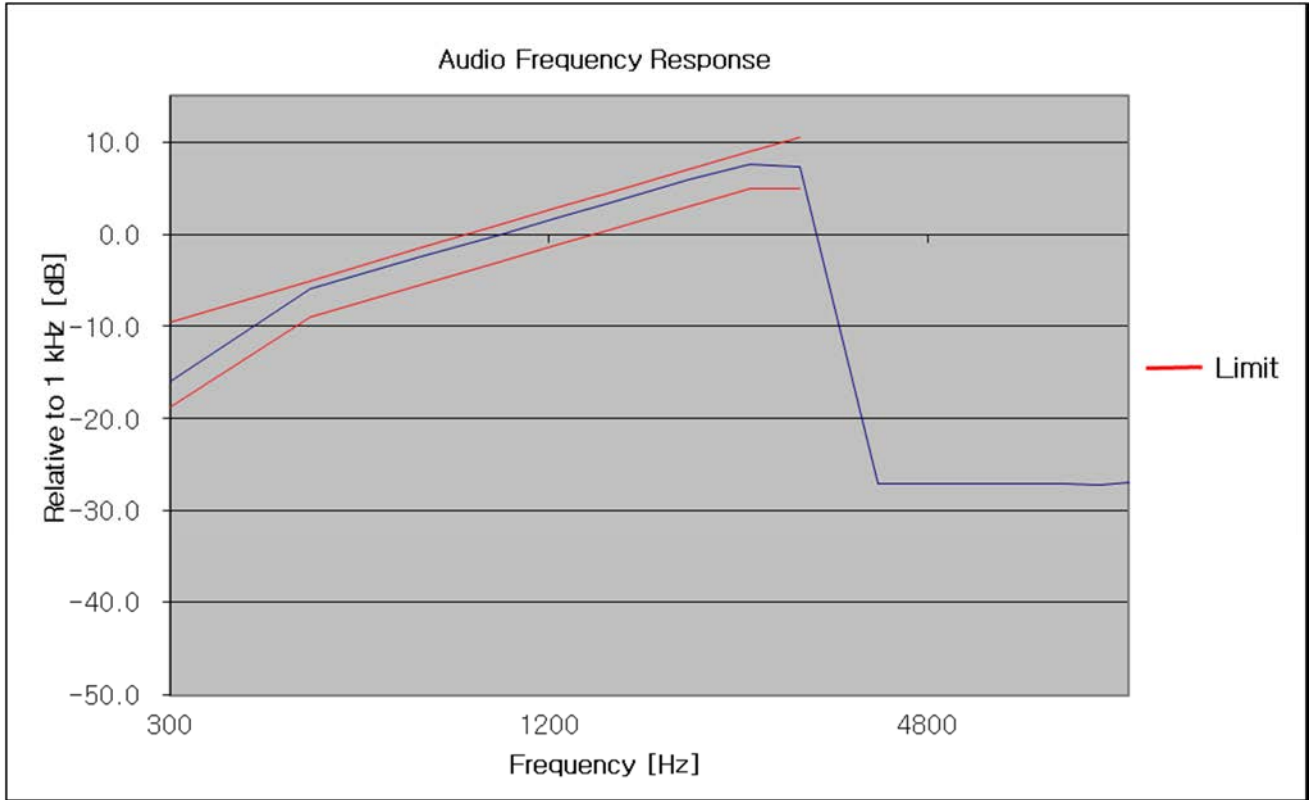
799.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.89                           | -9.46            | -18.69           |
| 500            | -5.90                            | -5.02            | -9.02            |
| 750            | -2.44                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.86                             | 2.94             | -1.06            |
| 1500           | 3.40                             | 4.52             | 0.52             |
| 2000           | 5.84                             | 7.02             | 3.02             |
| 2500           | 7.61                             | 8.96             | 4.96             |
| 3000           | 7.35                             | 10.54            | 4.96             |
| 4000           | -28.02                           | -                | -                |
| 5000           | -28.05                           | -                | -                |
| 6000           | -27.99                           | -                | -                |
| 7000           | -27.93                           | -                | -                |
| 8000           | -27.91                           | -                | -                |
| 9000           | -27.99                           | -                | -                |
| 10000          | -28.03                           | -                | -                |
| 20000          | -28.04                           | -                | -                |
| 30000          | -27.98                           | -                | -                |
| 40000          | -27.83                           | -                | -                |



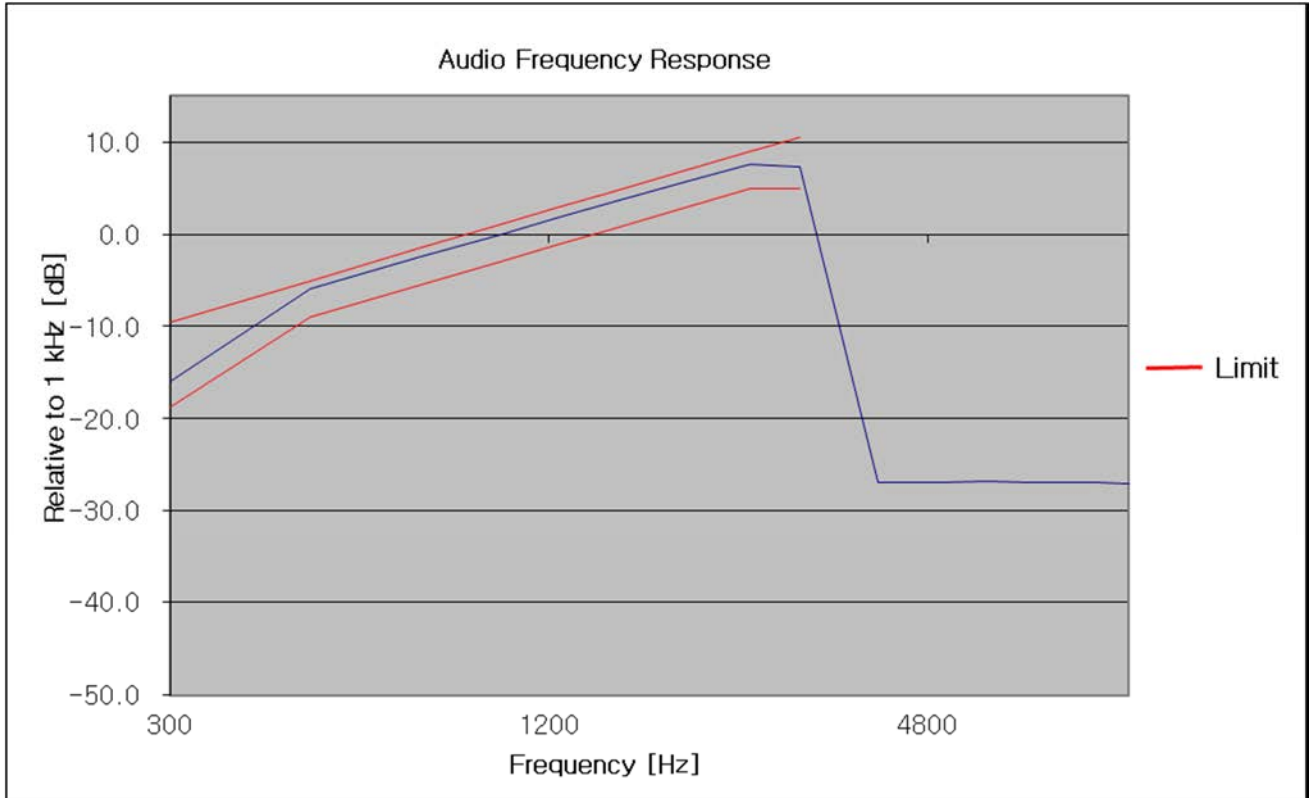
804.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.89                           | -9.46            | -18.69           |
| 500            | -5.91                            | -5.02            | -9.02            |
| 750            | -2.45                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.86                             | 2.94             | -1.06            |
| 1500           | 3.40                             | 4.52             | 0.52             |
| 2000           | 5.86                             | 7.02             | 3.02             |
| 2500           | 7.62                             | 8.96             | 4.96             |
| 3000           | 7.36                             | 10.54            | 4.96             |
| 4000           | -27.05                           | -                | -                |
| 5000           | -27.08                           | -                | -                |
| 6000           | -26.98                           | -                | -                |
| 7000           | -27.02                           | -                | -                |
| 8000           | -26.99                           | -                | -                |
| 9000           | -27.14                           | -                | -                |
| 10000          | -26.93                           | -                | -                |
| 20000          | -27.11                           | -                | -                |
| 30000          | -26.99                           | -                | -                |
| 40000          | -26.95                           | -                | -                |



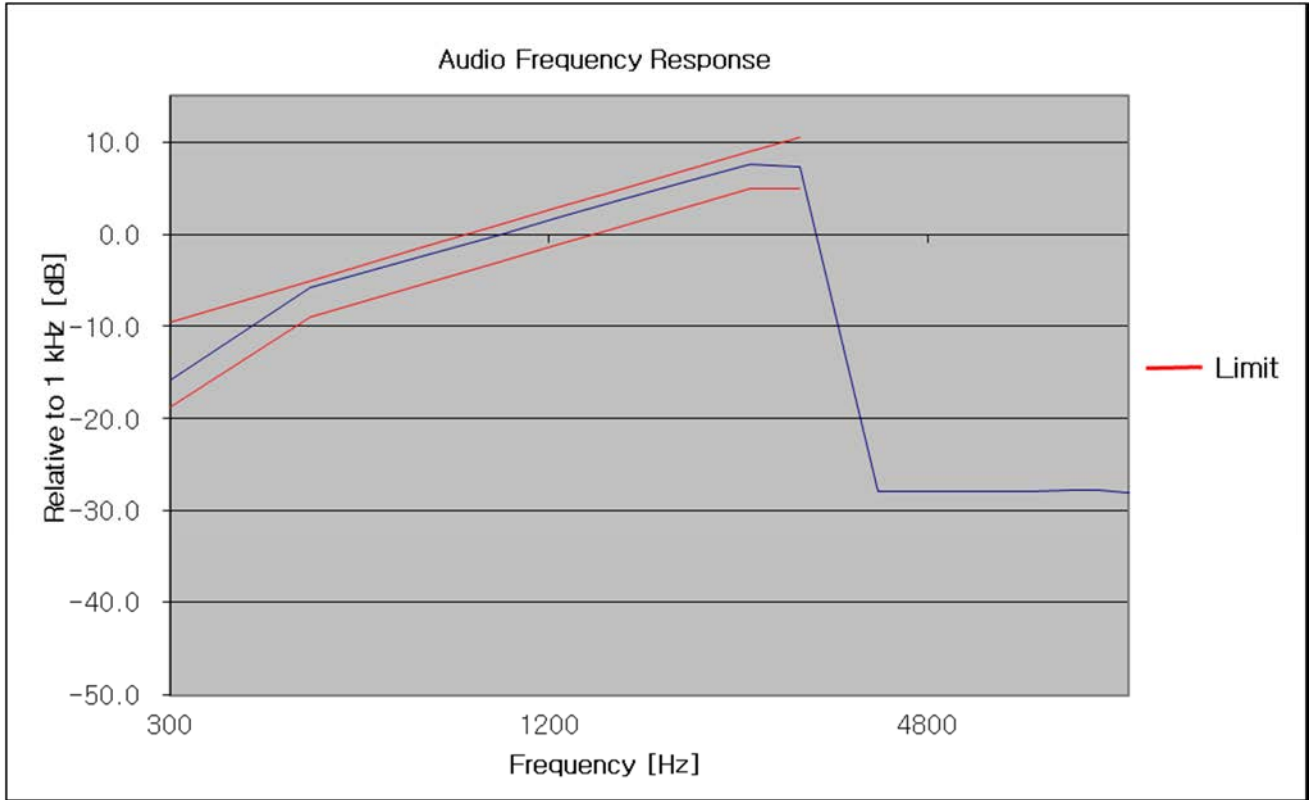
805.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.88                           | -9.46            | -18.69           |
| 500            | -5.96                            | -5.02            | -9.02            |
| 750            | -2.46                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.83                             | 2.94             | -1.06            |
| 1500           | 3.39                             | 4.52             | 0.52             |
| 2000           | 5.84                             | 7.02             | 3.02             |
| 2500           | 7.60                             | 8.96             | 4.96             |
| 3000           | 7.35                             | 10.54            | 4.96             |
| 4000           | -26.87                           | -                | -                |
| 5000           | -26.92                           | -                | -                |
| 6000           | -26.77                           | -                | -                |
| 7000           | -26.89                           | -                | -                |
| 8000           | -26.89                           | -                | -                |
| 9000           | -26.94                           | -                | -                |
| 10000          | -27.06                           | -                | -                |
| 20000          | -26.98                           | -                | -                |
| 30000          | -26.89                           | -                | -                |
| 40000          | -26.88                           | -                | -                |



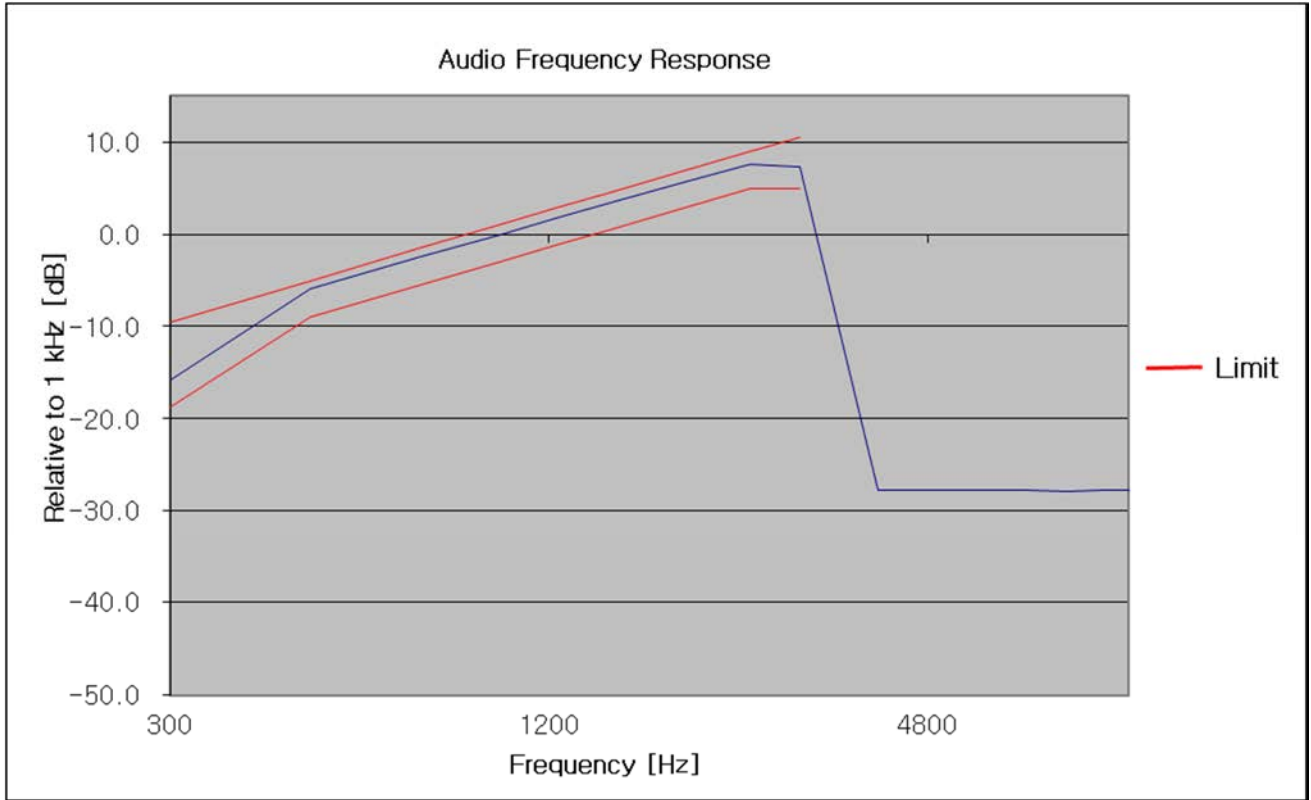
806.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.81                           | -9.46            | -18.69           |
| 500            | -5.82                            | -5.02            | -9.02            |
| 750            | -2.41                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.87                             | 2.94             | -1.06            |
| 1500           | 3.41                             | 4.52             | 0.52             |
| 2000           | 5.85                             | 7.02             | 3.02             |
| 2500           | 7.61                             | 8.96             | 4.96             |
| 3000           | 7.36                             | 10.54            | 4.96             |
| 4000           | -27.86                           | -                | -                |
| 5000           | -27.84                           | -                | -                |
| 6000           | -27.83                           | -                | -                |
| 7000           | -27.89                           | -                | -                |
| 8000           | -27.80                           | -                | -                |
| 9000           | -27.78                           | -                | -                |
| 10000          | -27.97                           | -                | -                |
| 20000          | -27.87                           | -                | -                |
| 30000          | -27.81                           | -                | -                |
| 40000          | -27.76                           | -                | -                |



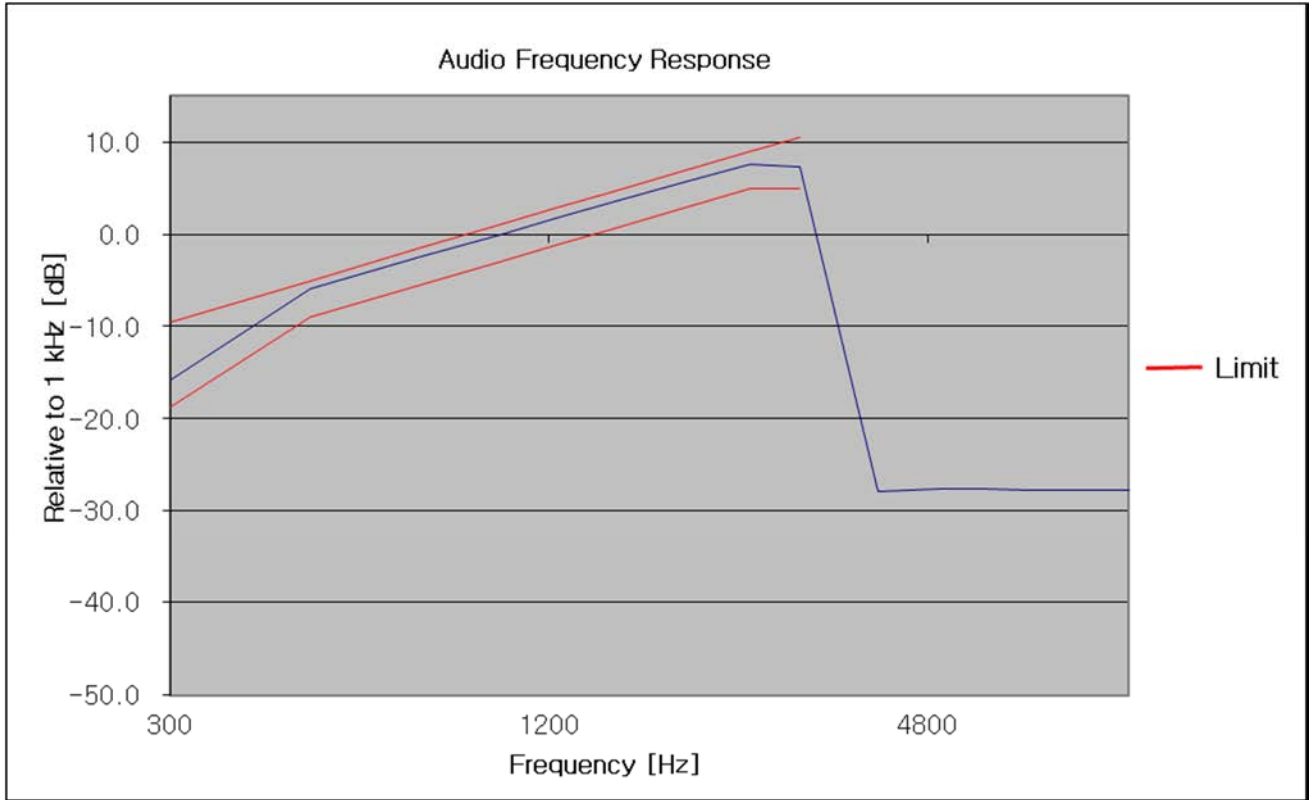
815.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.71                           | -9.46            | -18.69           |
| 500            | -5.87                            | -5.02            | -9.02            |
| 750            | -2.44                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.85                             | 2.94             | -1.06            |
| 1500           | 3.38                             | 4.52             | 0.52             |
| 2000           | 5.83                             | 7.02             | 3.02             |
| 2500           | 7.60                             | 8.96             | 4.96             |
| 3000           | 7.34                             | 10.54            | 4.96             |
| 4000           | -27.73                           | -                | -                |
| 5000           | -27.69                           | -                | -                |
| 6000           | -27.71                           | -                | -                |
| 7000           | -27.73                           | -                | -                |
| 8000           | -27.89                           | -                | -                |
| 9000           | -27.73                           | -                | -                |
| 10000          | -27.78                           | -                | -                |
| 20000          | -27.83                           | -                | -                |
| 30000          | -27.86                           | -                | -                |
| 40000          | -27.72                           | -                | -                |



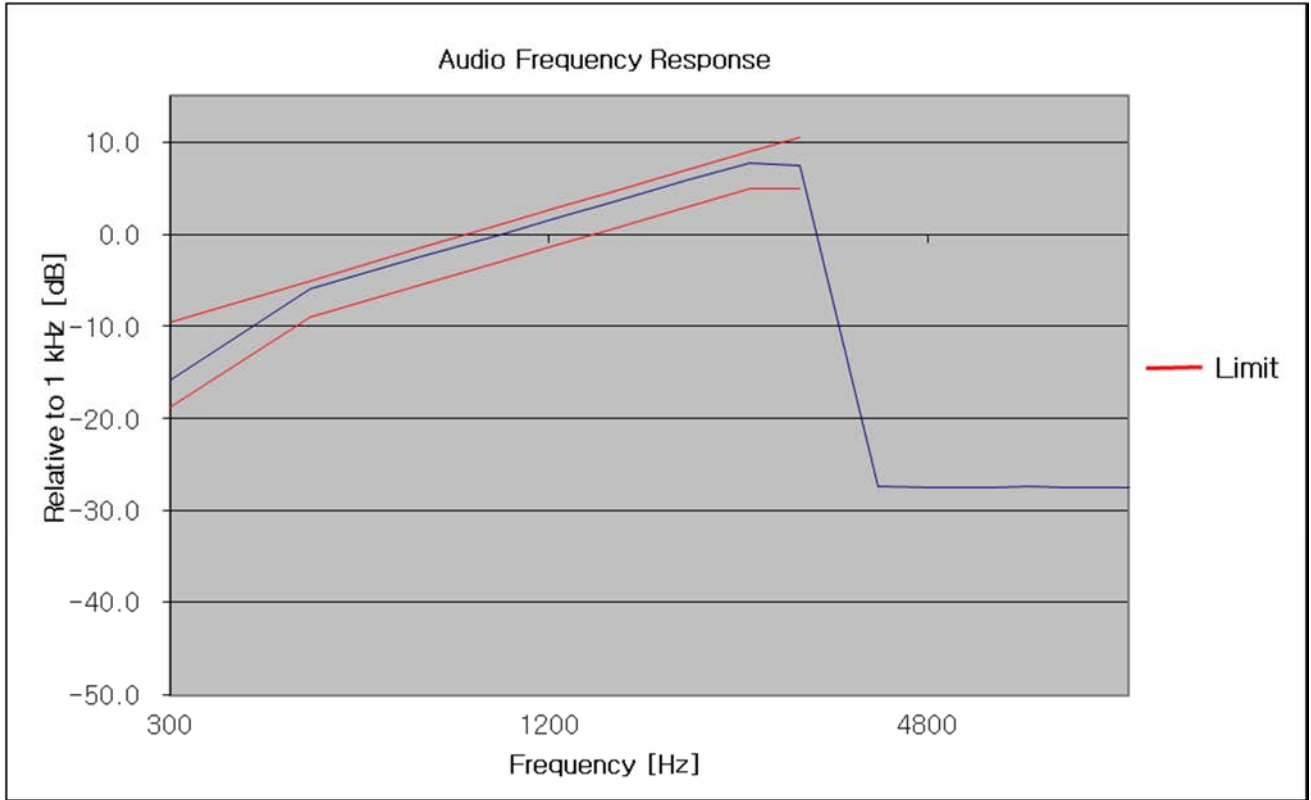
823.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.81                           | -9.46            | -18.69           |
| 500            | -5.85                            | -5.02            | -9.02            |
| 750            | -2.45                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.83                             | 2.94             | -1.06            |
| 1500           | 3.38                             | 4.52             | 0.52             |
| 2000           | 5.82                             | 7.02             | 3.02             |
| 2500           | 7.58                             | 8.96             | 4.96             |
| 3000           | 7.33                             | 10.54            | 4.96             |
| 4000           | -27.83                           | -                | -                |
| 5000           | -27.65                           | -                | -                |
| 6000           | -27.63                           | -                | -                |
| 7000           | -27.72                           | -                | -                |
| 8000           | -27.73                           | -                | -                |
| 9000           | -27.74                           | -                | -                |
| 10000          | -27.71                           | -                | -                |
| 20000          | -27.63                           | -                | -                |
| 30000          | -27.80                           | -                | -                |
| 40000          | -27.78                           | -                | -                |



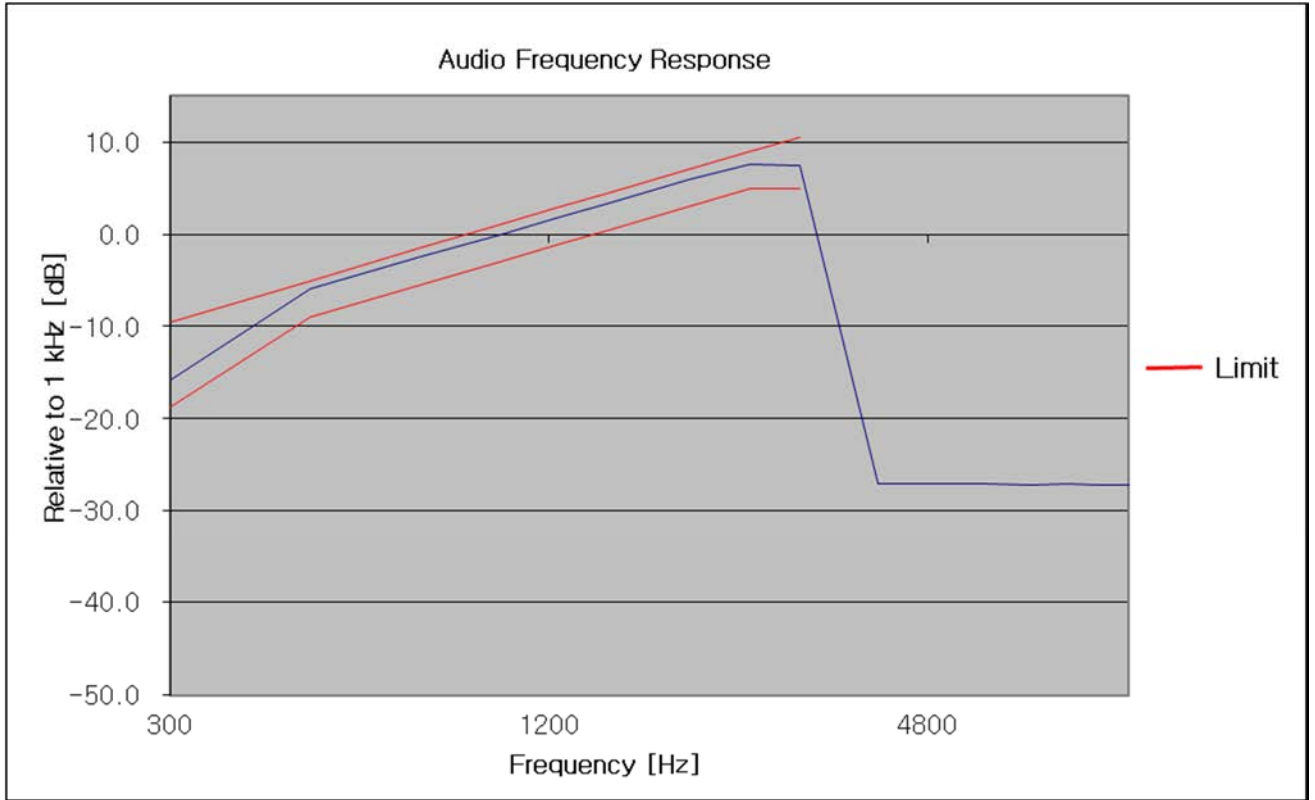
851.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.74                           | -9.46            | -18.69           |
| 500            | -5.86                            | -5.02            | -9.02            |
| 750            | -2.46                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.89                             | 2.94             | -1.06            |
| 1500           | 3.45                             | 4.52             | 0.52             |
| 2000           | 5.91                             | 7.02             | 3.02             |
| 2500           | 7.69                             | 8.96             | 4.96             |
| 3000           | 7.45                             | 10.54            | 4.96             |
| 4000           | -27.37                           | -                | -                |
| 5000           | -27.39                           | -                | -                |
| 6000           | -27.41                           | -                | -                |
| 7000           | -27.34                           | -                | -                |
| 8000           | -27.40                           | -                | -                |
| 9000           | -27.46                           | -                | -                |
| 10000          | -27.51                           | -                | -                |
| 20000          | -27.49                           | -                | -                |
| 30000          | -27.38                           | -                | -                |
| 40000          | -27.43                           | -                | -                |



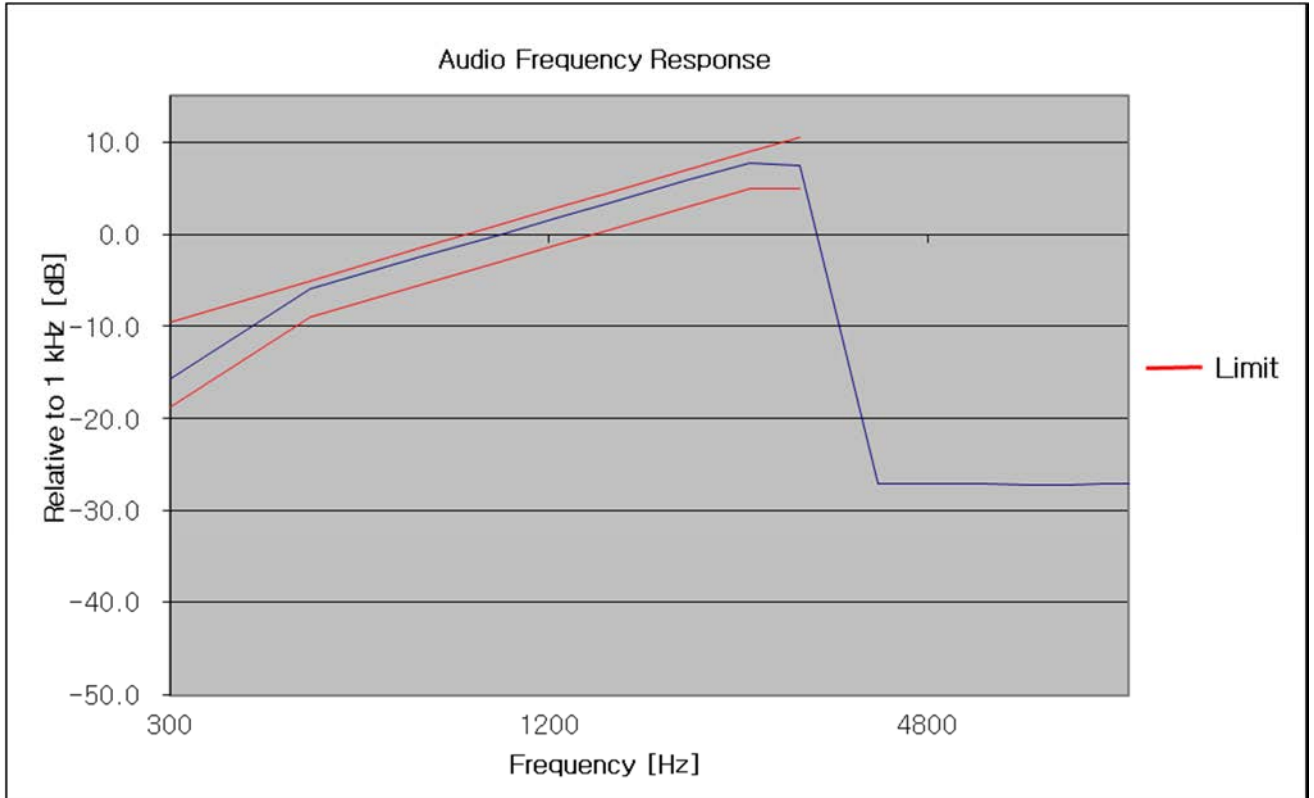
860.05 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.82                           | -9.46            | -18.69           |
| 500            | -5.93                            | -5.02            | -9.02            |
| 750            | -2.45                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.84                             | 2.94             | -1.06            |
| 1500           | 3.42                             | 4.52             | 0.52             |
| 2000           | 5.89                             | 7.02             | 3.02             |
| 2500           | 7.66                             | 8.96             | 4.96             |
| 3000           | 7.41                             | 10.54            | 4.96             |
| 4000           | -27.11                           | -                | -                |
| 5000           | -27.11                           | -                | -                |
| 6000           | -27.09                           | -                | -                |
| 7000           | -27.14                           | -                | -                |
| 8000           | -27.03                           | -                | -                |
| 9000           | -27.14                           | -                | -                |
| 10000          | -27.19                           | -                | -                |
| 20000          | -27.16                           | -                | -                |
| 30000          | -27.16                           | -                | -                |
| 40000          | -27.19                           | -                | -                |



868.95 MHz

| Frequency (Hz) | Attenuation<br>Rel. to 1kHz (dB) | Upper limit (dB) | Lower limit (dB) |
|----------------|----------------------------------|------------------|------------------|
| 300            | -15.58                           | -9.46            | -18.69           |
| 500            | -5.89                            | -5.02            | -9.02            |
| 750            | -2.46                            | -1.50            | -5.50            |
| 1000           | 0.00                             | 1.00             | -3.00            |
| 1250           | 1.88                             | 2.94             | -1.06            |
| 1500           | 3.44                             | 4.52             | 0.52             |
| 2000           | 5.89                             | 7.02             | 3.02             |
| 2500           | 7.67                             | 8.96             | 4.96             |
| 3000           | 7.43                             | 10.54            | 4.96             |
| 4000           | -27.03                           | -                | -                |
| 5000           | -27.02                           | -                | -                |
| 6000           | -27.08                           | -                | -                |
| 7000           | -27.15                           | -                | -                |
| 8000           | -27.12                           | -                | -                |
| 9000           | -27.09                           | -                | -                |
| 10000          | -27.04                           | -                | -                |
| 20000          | -27.08                           | -                | -                |
| 30000          | -27.11                           | -                | -                |
| 40000          | -27.08                           | -                | -                |

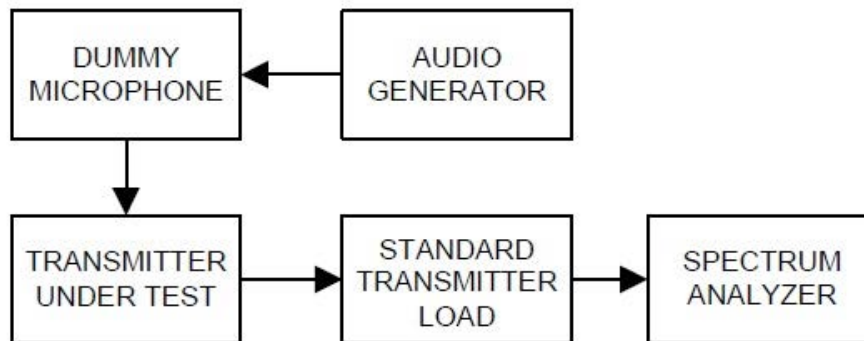


## 8.6 Emission Mask

### Definition

The transmitter sideband spectrum denotes the sideband power produced at a discrete frequency separation from the carrier up to the test bandwidth (see 1.3.4.4) due to all sources of unwanted noise within the transmitter in a modulated condition.

### TEST CONFIGURATION



### TEST PROCEDURE

According to 2.2.11 in TIA-603-E Standard.

- a) Connect the equipment as illustrated. Use the table to determine the spectrum analyzer resolution bandwidth:

| Spectrum Analyzer Resolution Bandwidth |                                               |                                            |                                             |
|----------------------------------------|-----------------------------------------------|--------------------------------------------|---------------------------------------------|
| Frequency Band (MHz)                   | Mask for Equipment with Audio Low Pass Filter | Mask for Equipment without Low Pass Filter | Spectrum Analyzer Resolution Bandwidth (Hz) |
| 25-50                                  | B                                             | C                                          | 300                                         |
| 72-76                                  | B                                             | C                                          | 300                                         |
| 138-174                                | NTIA                                          | NTIA                                       | 300                                         |
| 150-174                                | B                                             | C                                          | 300                                         |
| 150-174                                | D or E                                        | D or E                                     | 100                                         |
| 406-420                                | NTIA                                          | NTIA                                       | 300                                         |
| 421-512                                | B                                             | C                                          | 300                                         |
| 421-512                                | D or E                                        | D or E                                     | 100                                         |
| 806-821/851-866                        | B or EA                                       | G or EA                                    | 300                                         |
| 821-824/866-869                        | B                                             | H                                          | 300                                         |
| 896-901/935-940                        | I                                             | J                                          | 300                                         |

- b) Adjust the spectrum analyzer for the following settings:
  - 1) Resolution Bandwidth per the above table
  - 2) Video Bandwidth at least 10 times the resolution bandwidth.
  - 3) Sweep Speed slow enough to maintain measurement calibration.
  - 4) Detector Mode = Positive Peak.

- 5) Span that will allow proper viewing of the test bandwidth (see 1.3.4.4).
- c) Set the center frequency of the spectrum analyzer to the assigned transmitter frequency. Key the transmitter, and set the level of the unmodulated carrier to a full scale reference line. This is the 0 dB reference for the measurement.
  - d) 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. The input level shall be established at the frequency of maximum response of the audio modulating circuit. Transmitters employing digital modulation techniques that bypass the limiter and the audio low-pass filter shall be modulated as specified by the manufacturer.
  - e) Record the resulting spectrum analyzer presentation of the emission level with an on-line recording device or in a photograph. It is recommended that the emission limit (as given in 3.2.11) be drawn on the plotted graph or photograph. The spectrum analyzer presentation is the sideband spectrum.

■ WORST CASE

Peak detector and RMS detector were investigated and the worst case results are reported.

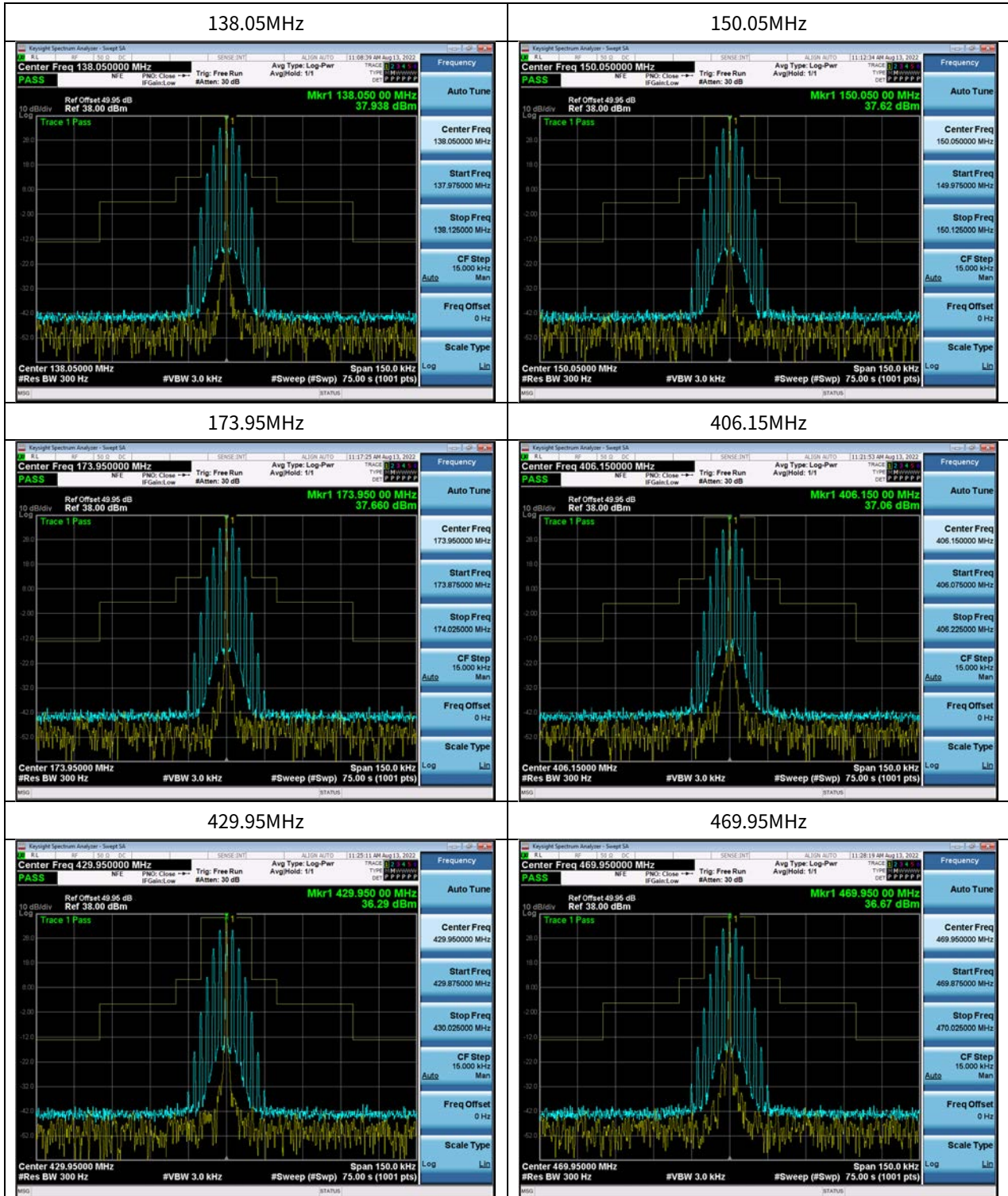
- Detector : Peak/ RMS
- Worstcase : Peak

## Plots of Emission Mask

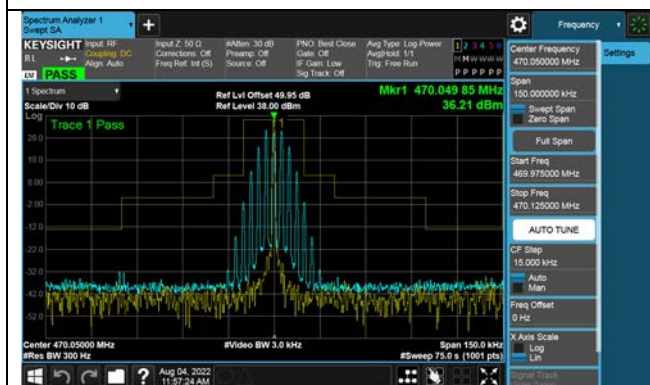
High Power

16K0F3E

Emission Mask B



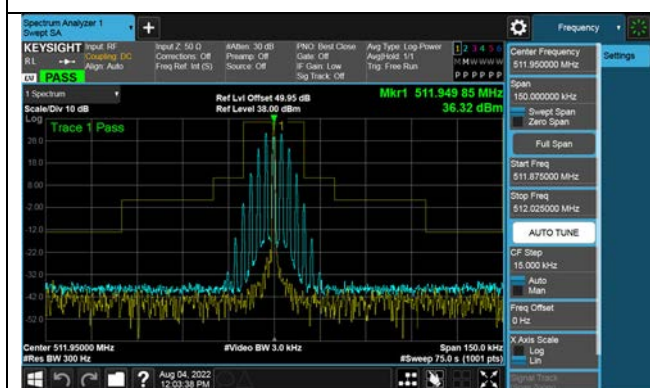
470.05MHz



491.05MHz



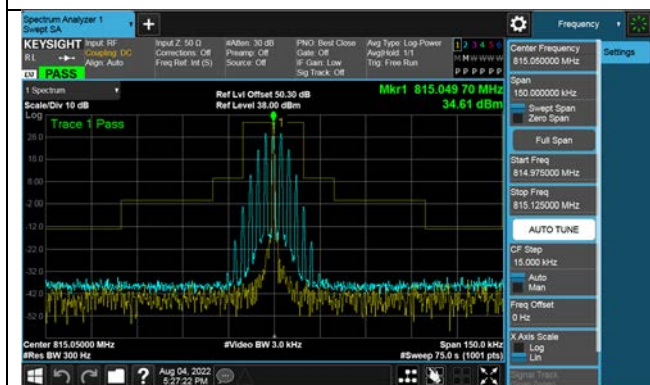
511.95MHz



806.05MHz



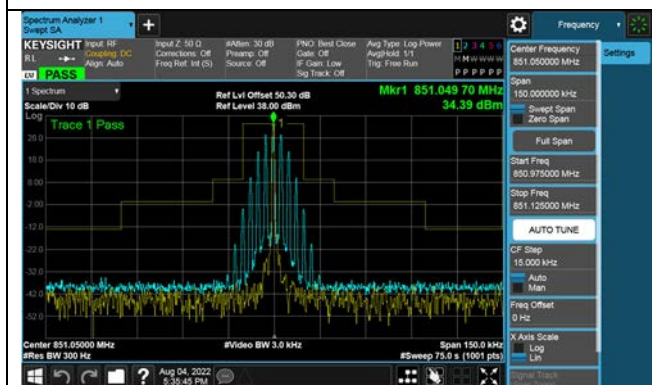
815.05MHz



823.95MHz



851.05MHz



860.05MHz

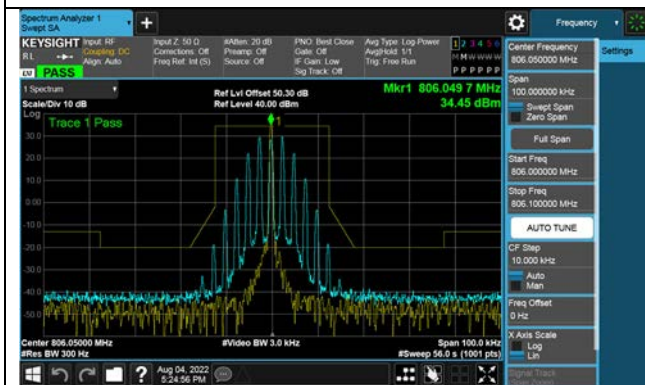


868.95MHz

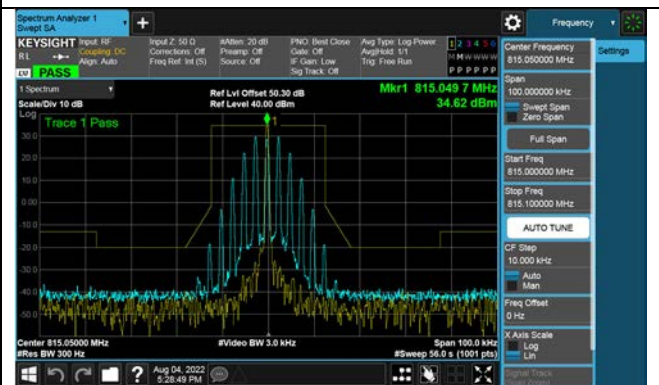


## Emission Mask EA

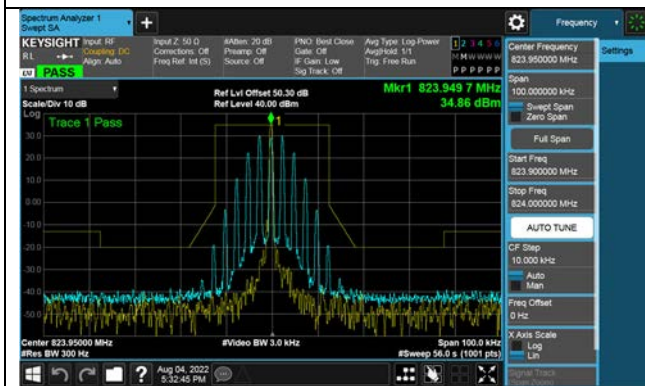
806.05MHz



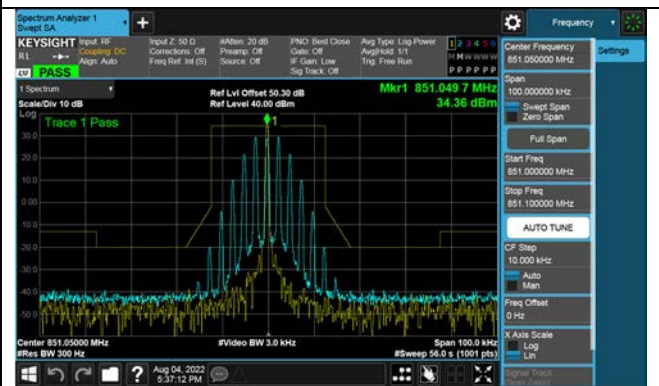
815.05MHz



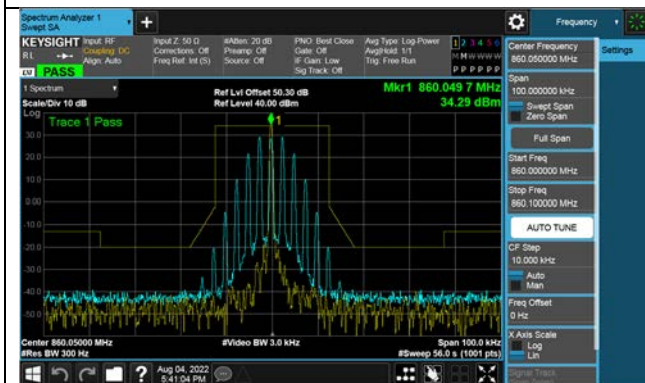
823.95MHz



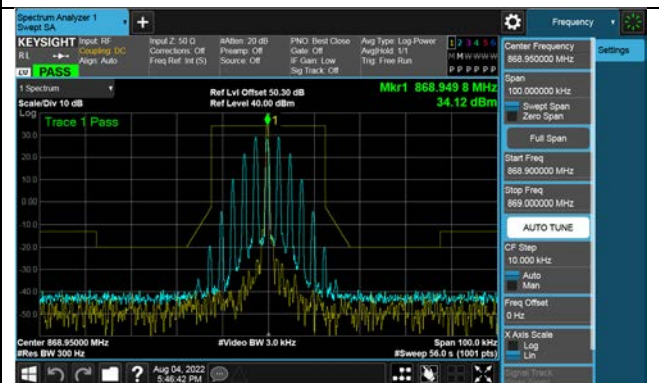
851.05MHz



860.05MHz



868.95MHz

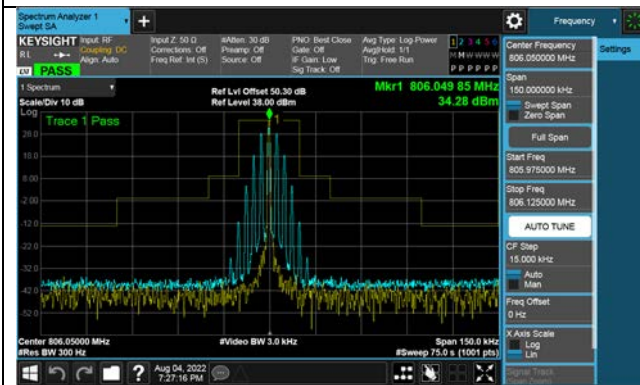


14K0F3E

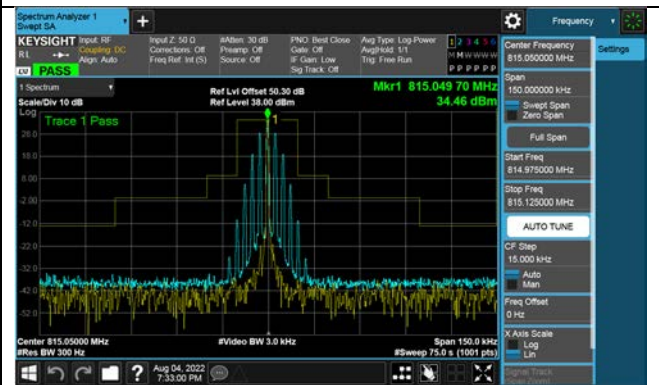
High Power

Emission Mask B

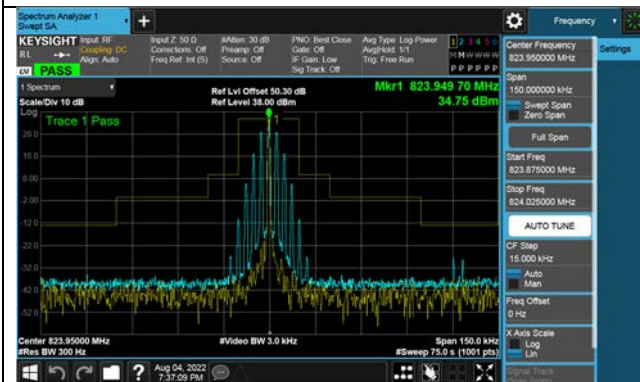
806.05MHz



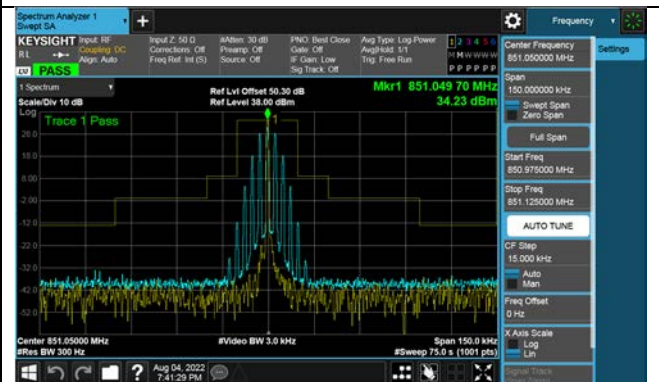
815.05MHz



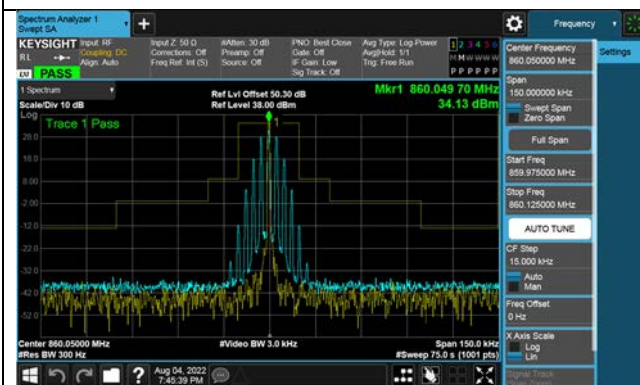
823.95MHz



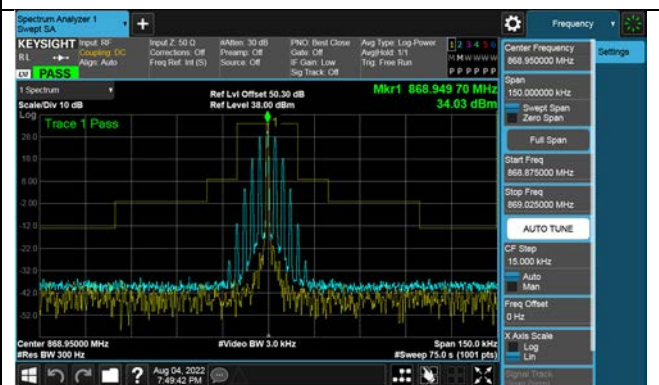
851.05MHz



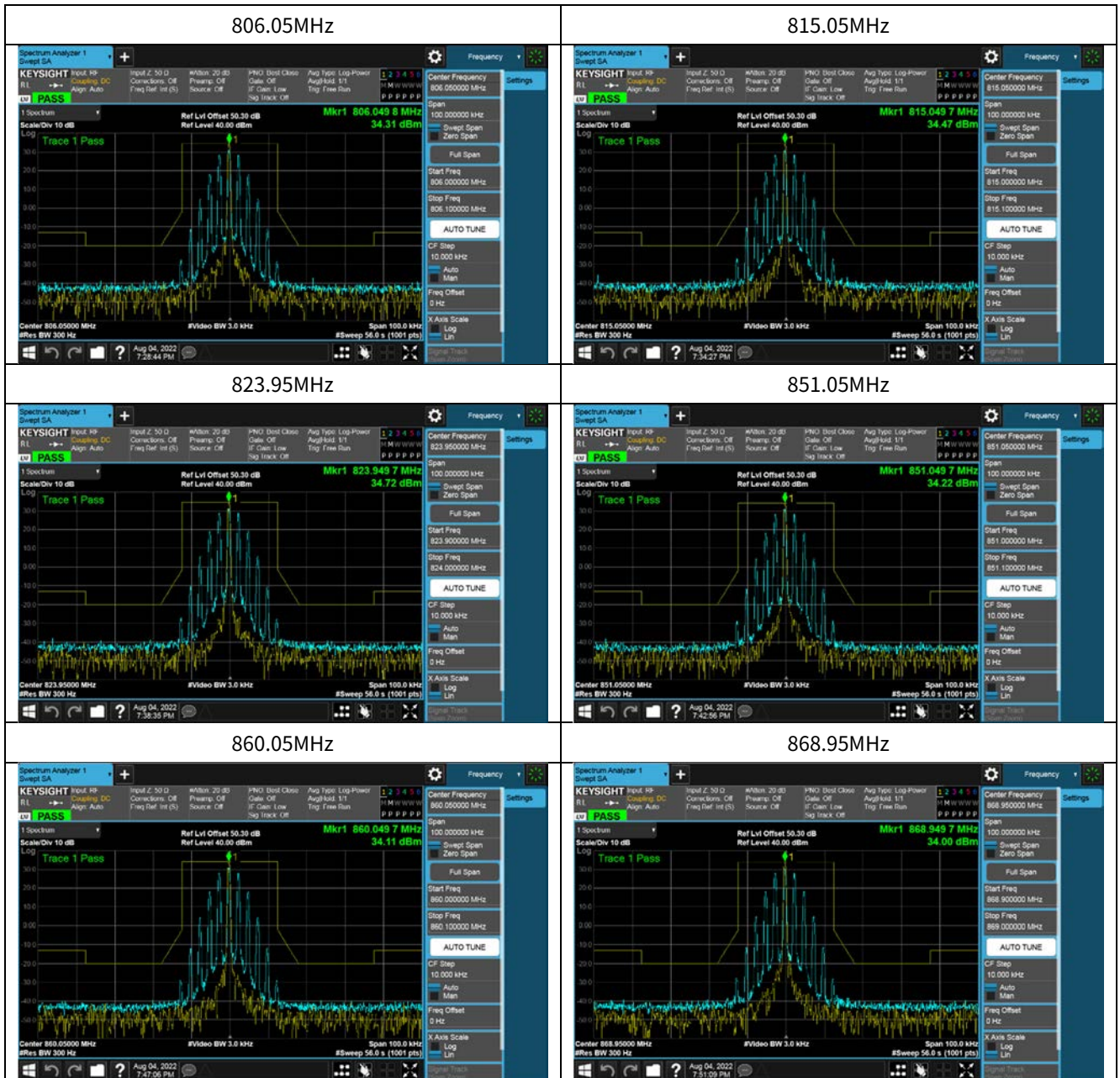
860.05MHz



868.95MHz



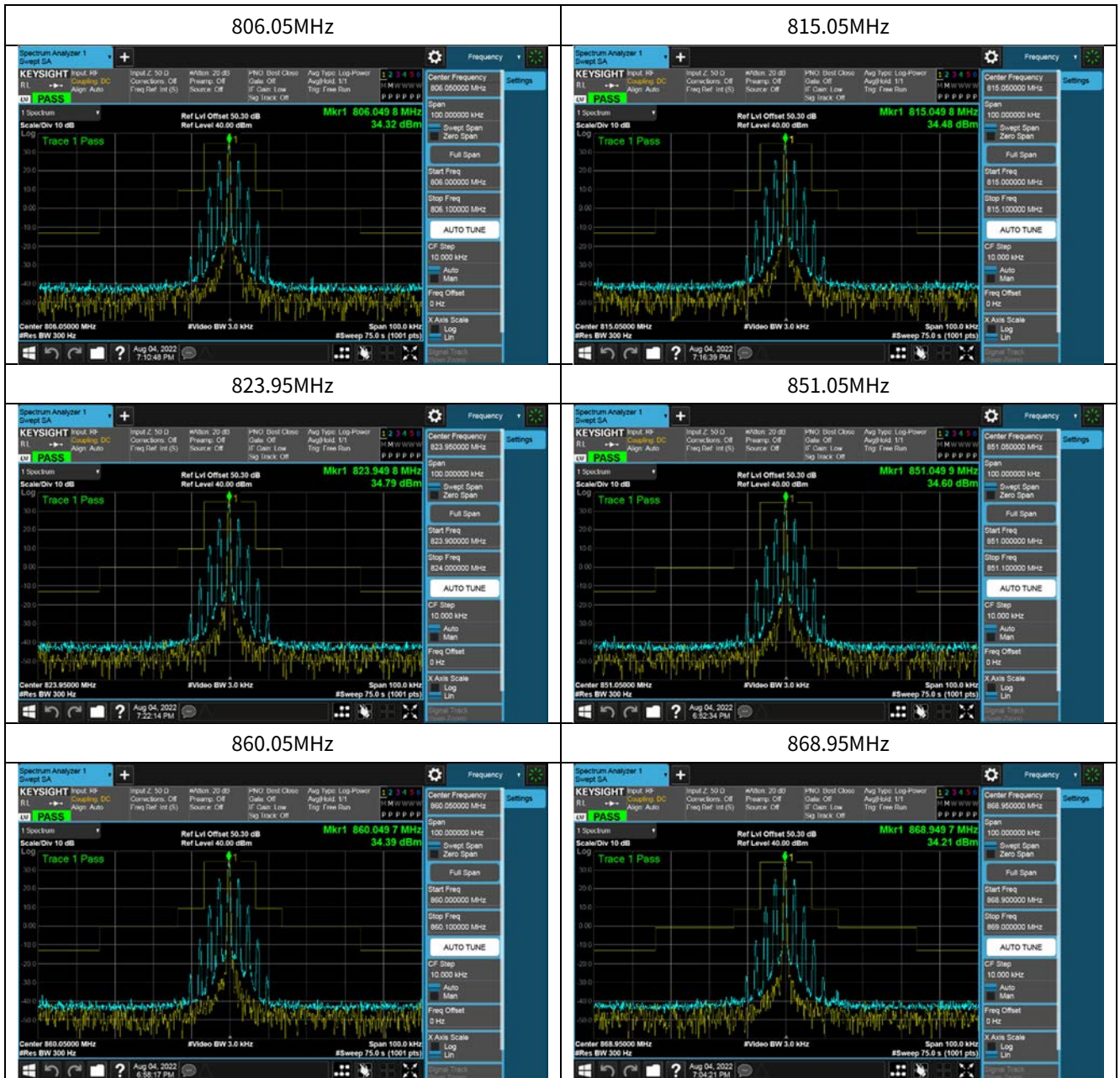
## Emission Mask EA



11K0F3E

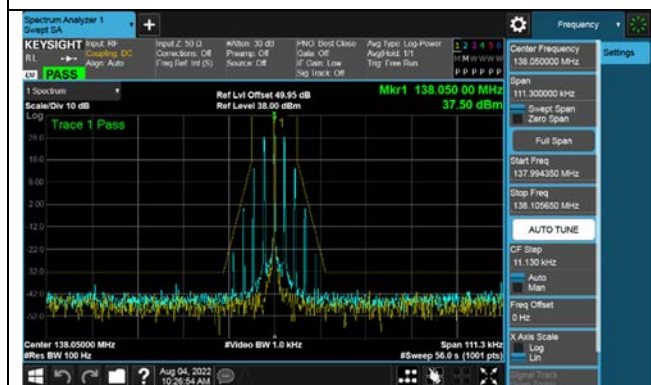
High Power

Emission Mask B

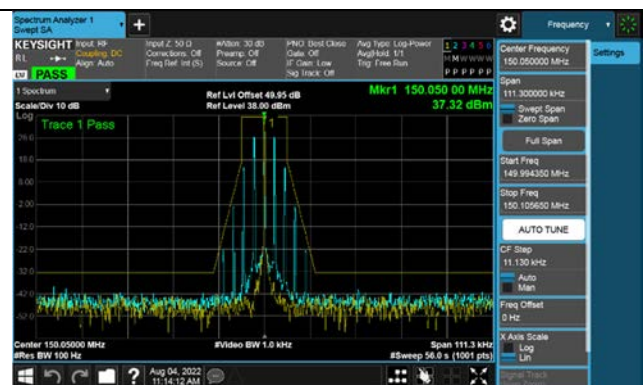


## Emission Mask D

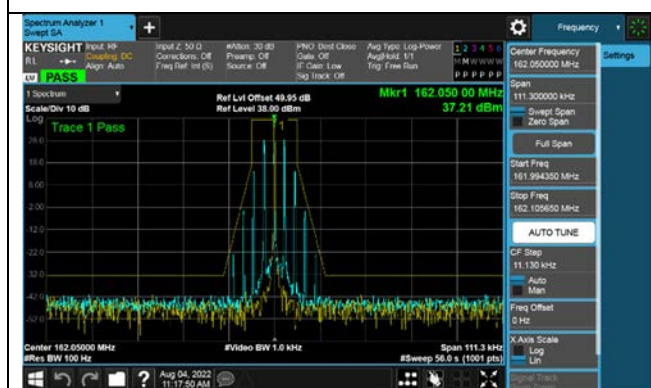
138.05MHz



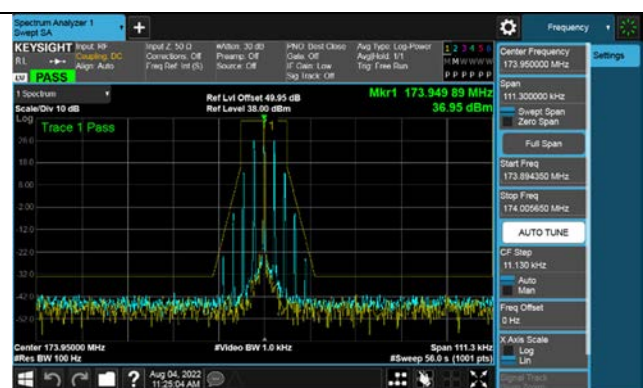
150.05MHz



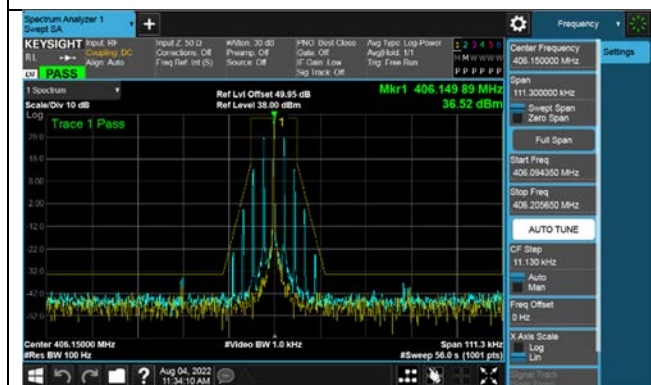
162.05MHz



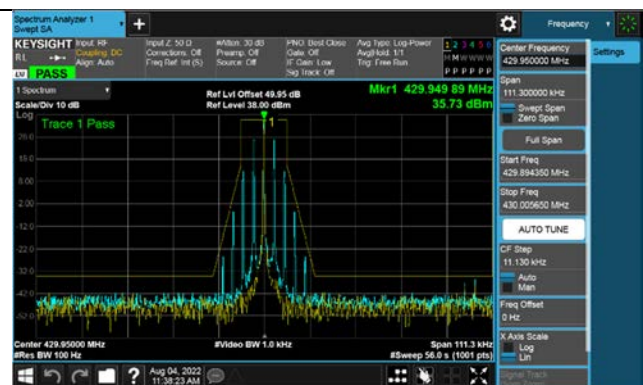
173.95MHz

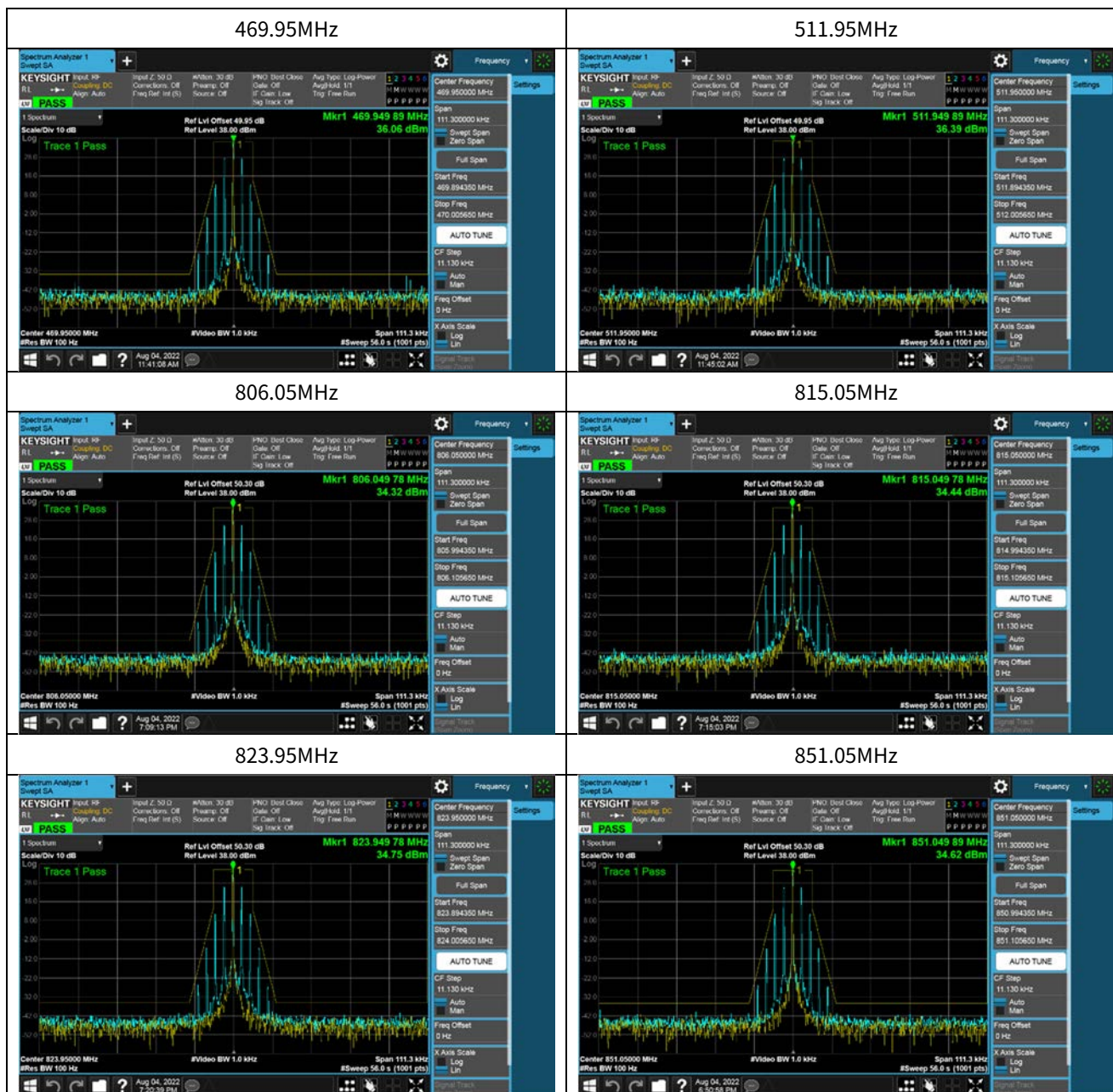


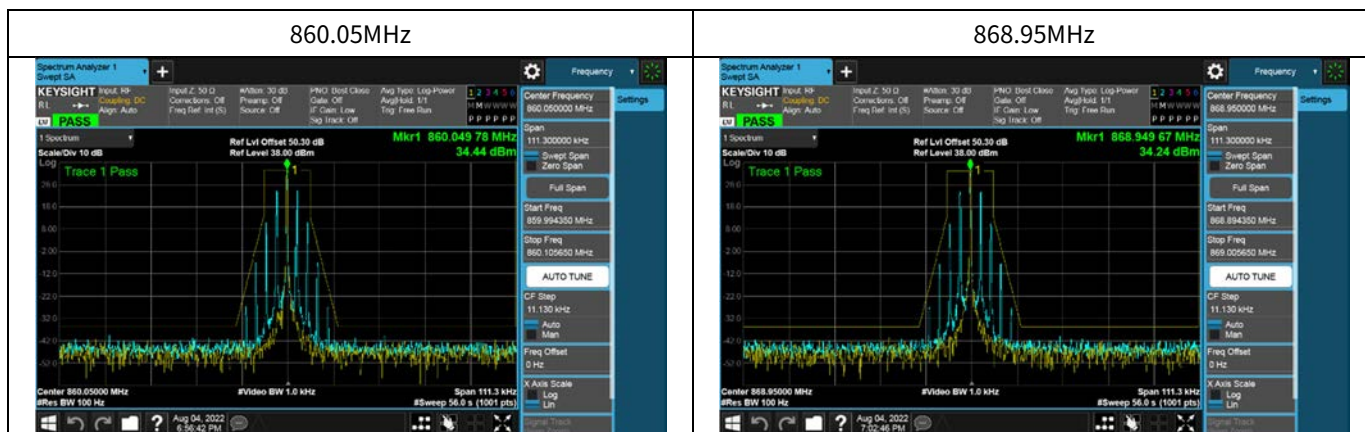
406.15MHz



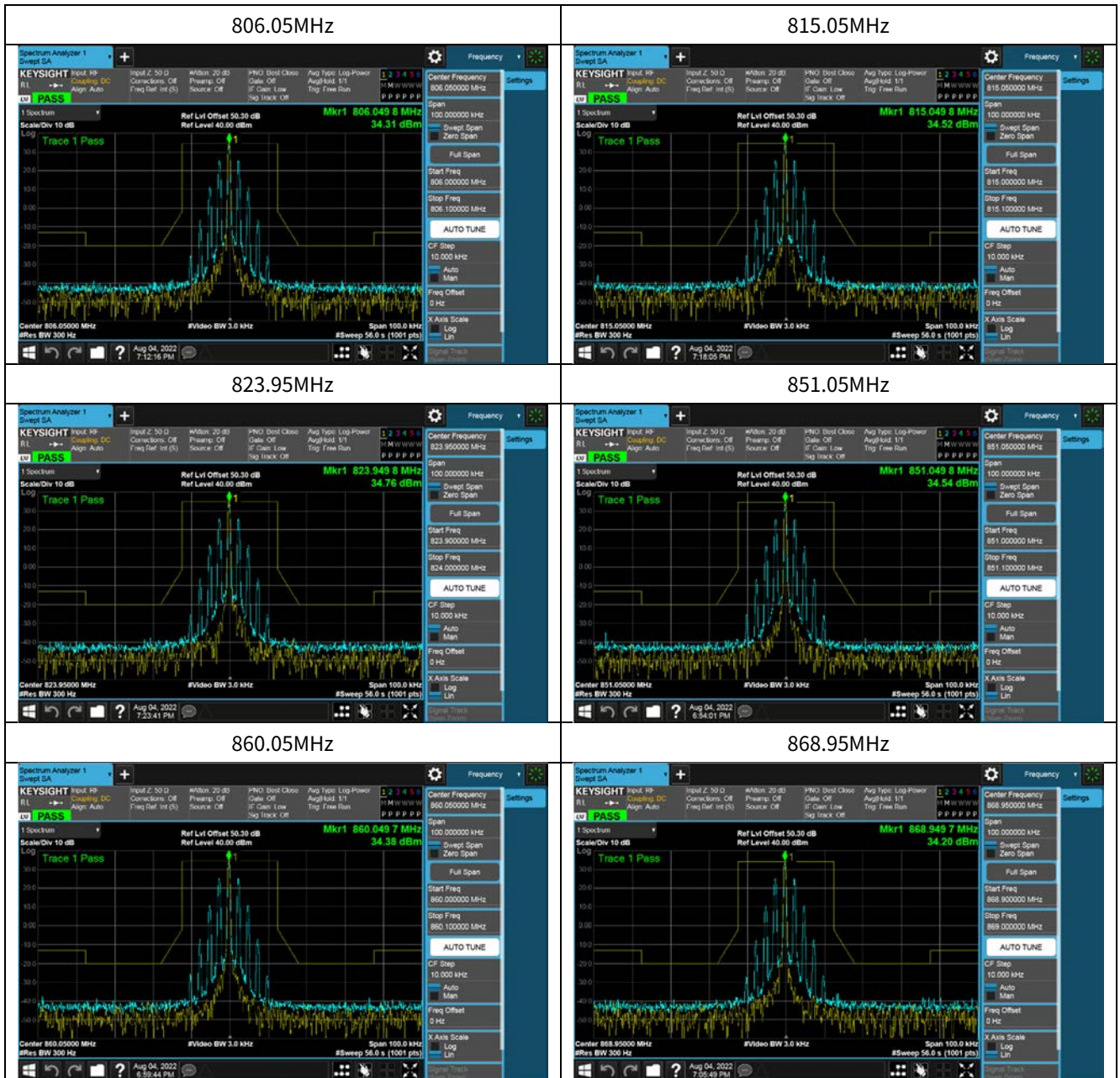
429.95MHz







## Emission Mask EA

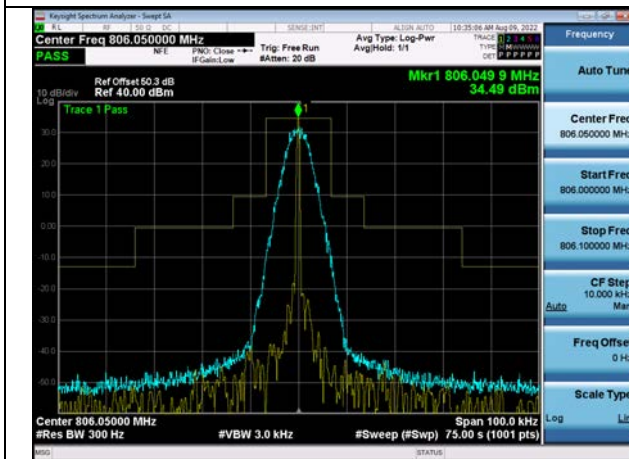


8K10F1E, 8K10F1D

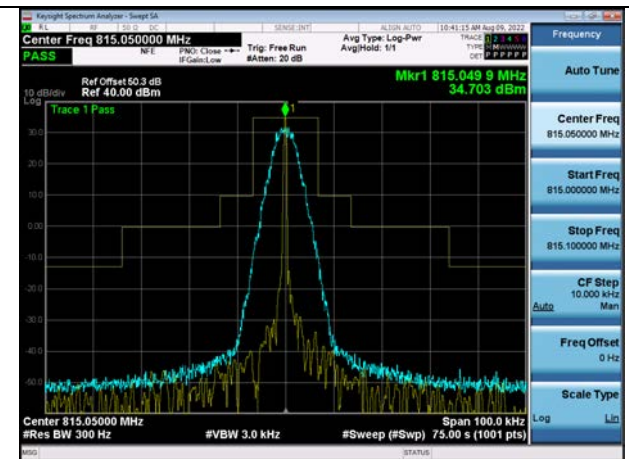
High Power

Emission Mask B

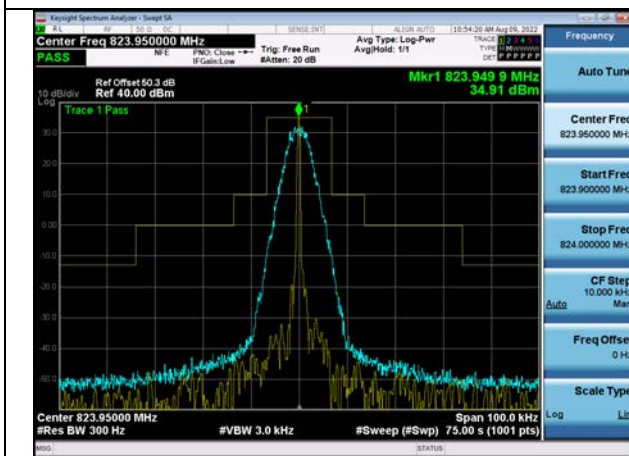
806.05MHz



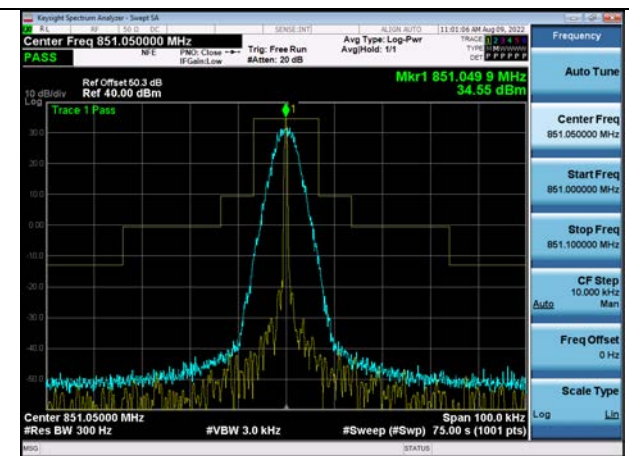
815.05MHz



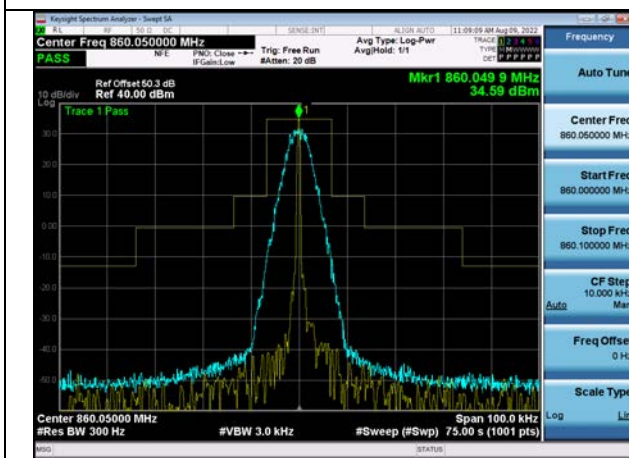
823.95MHz



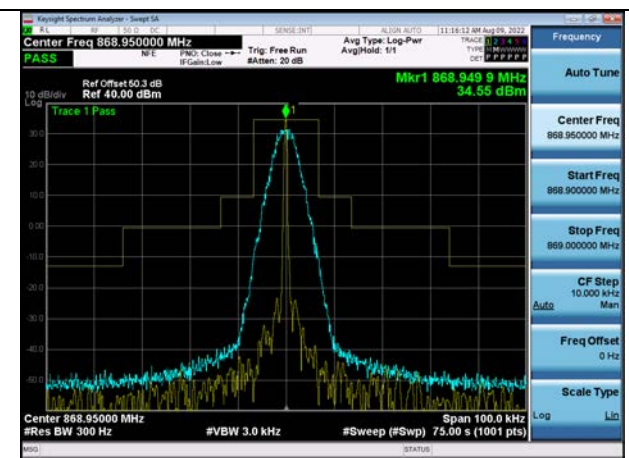
851.05MHz



860.05MHz

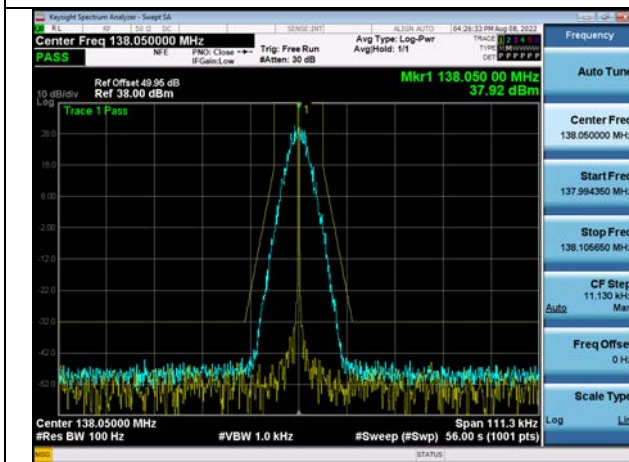


868.95MHz

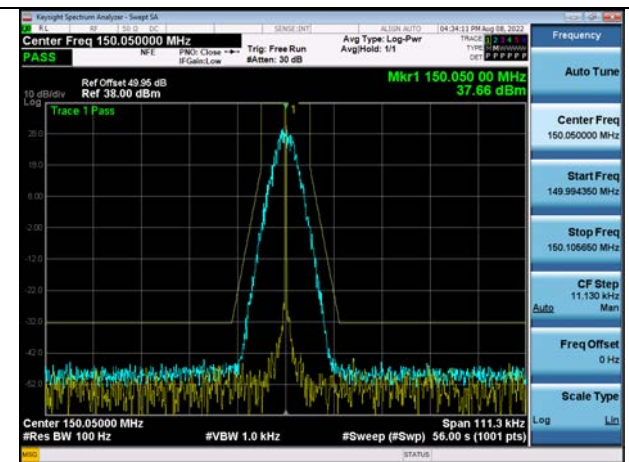


## Emission Mask D

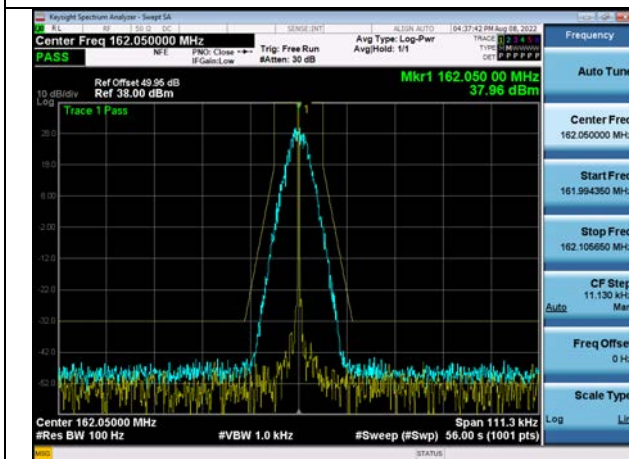
138.05MHz



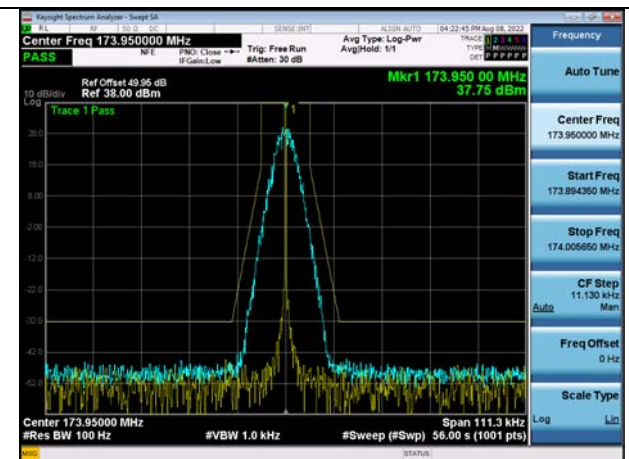
150.05MHz



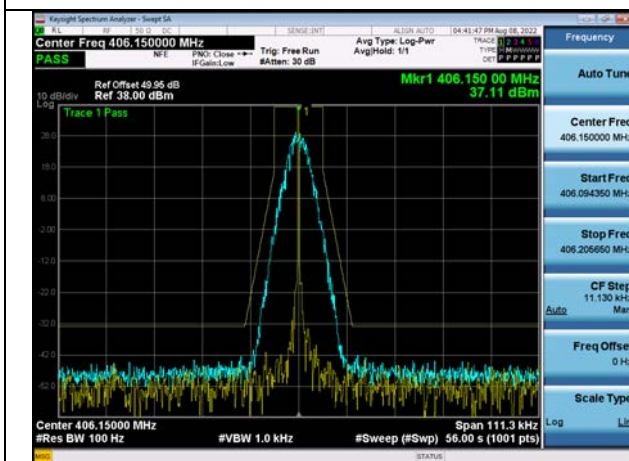
162.05MHz



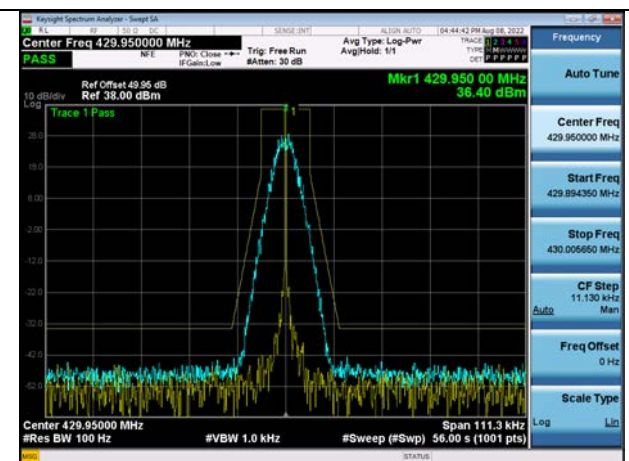
173.95MHz



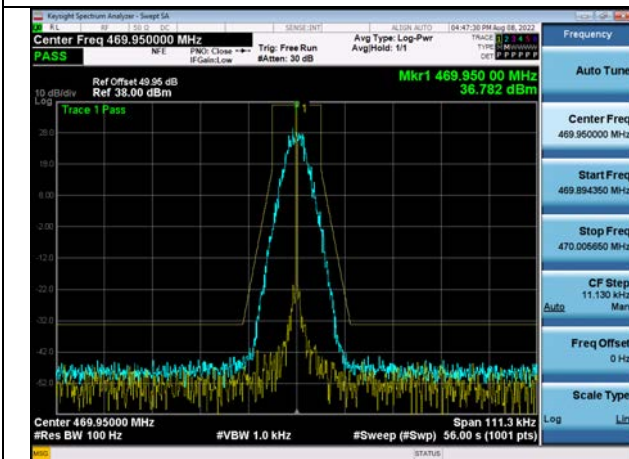
406.15MHz



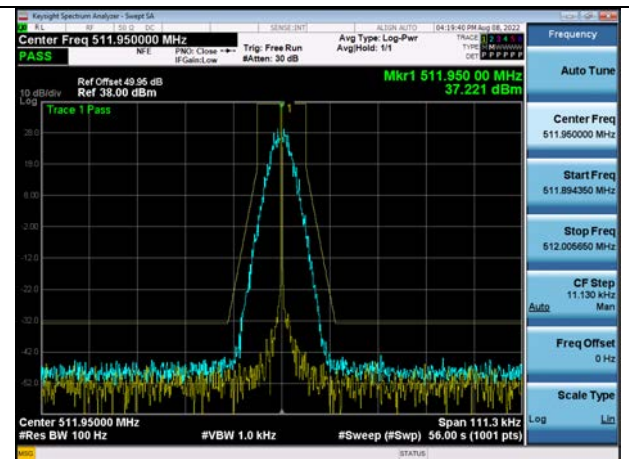
429.95MHz



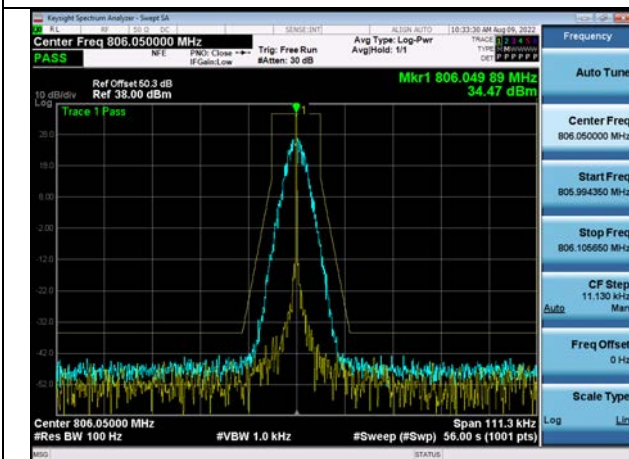
469.95MHz



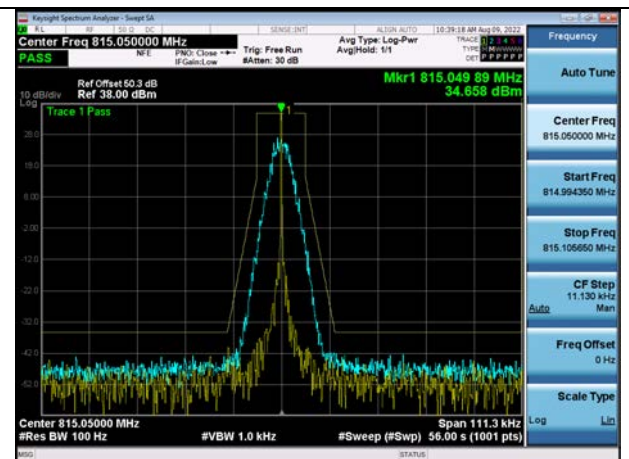
511.95MHz



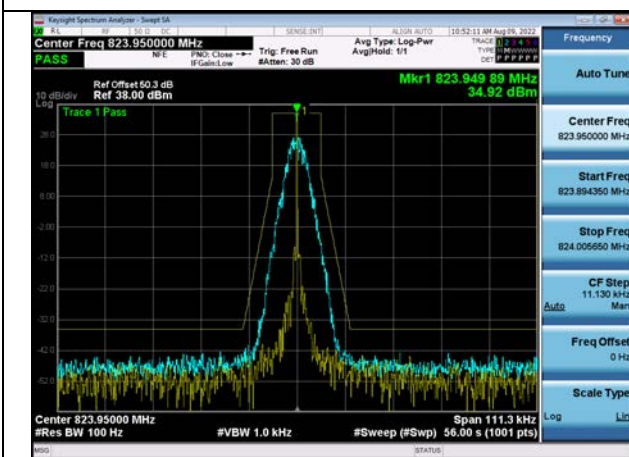
806.05MHz



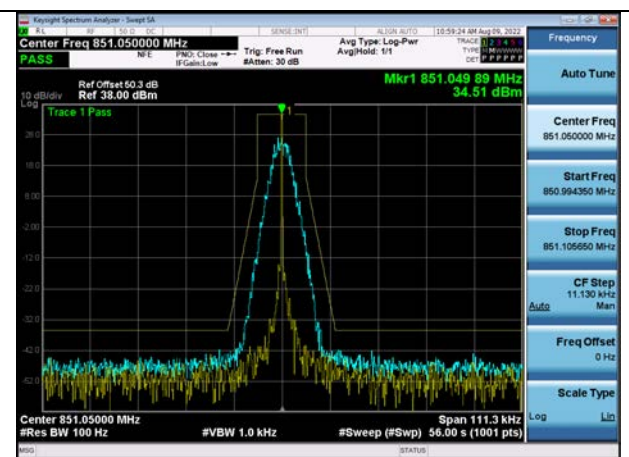
815.05MHz



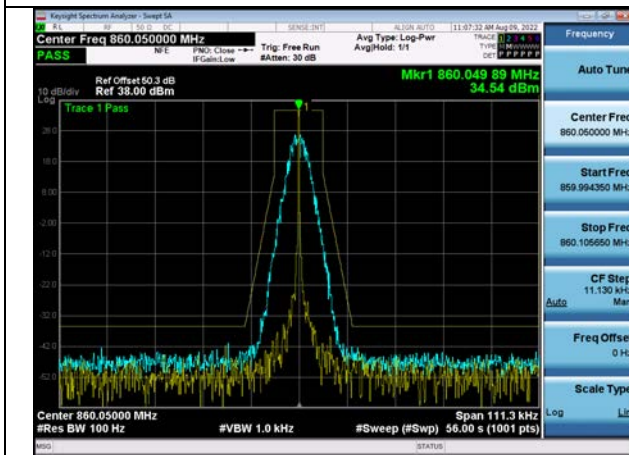
823.95MHz



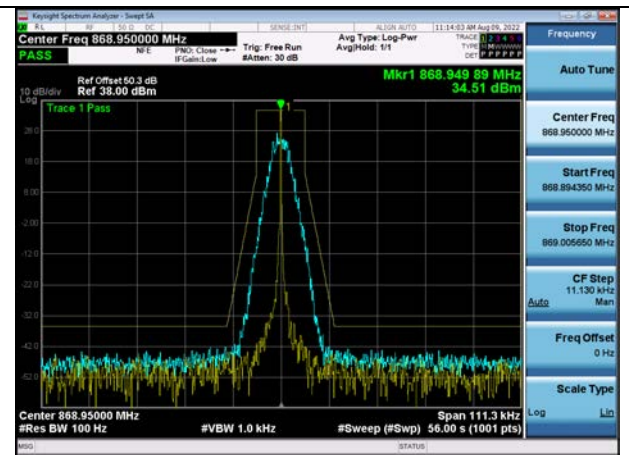
851.05MHz



860.05MHz

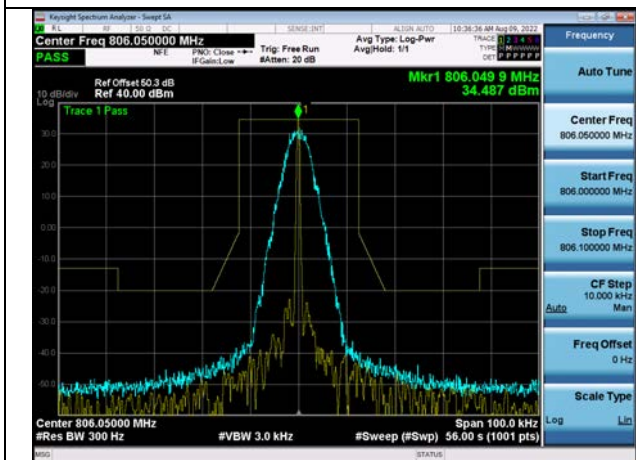


868.95MHz

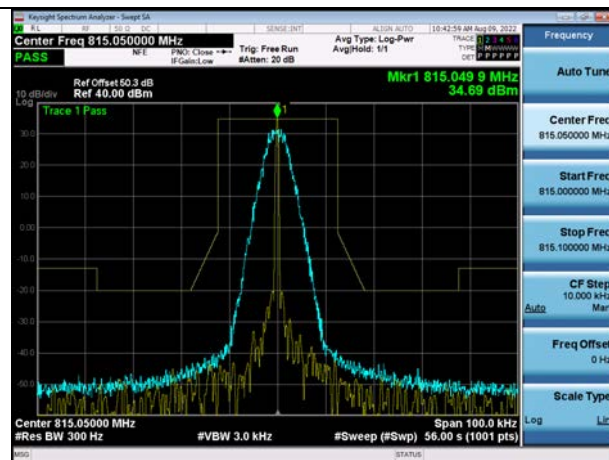


## Emission Mask EA

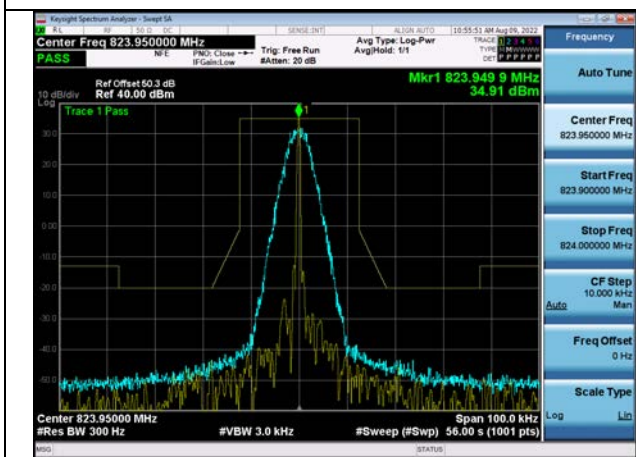
806.05MHz



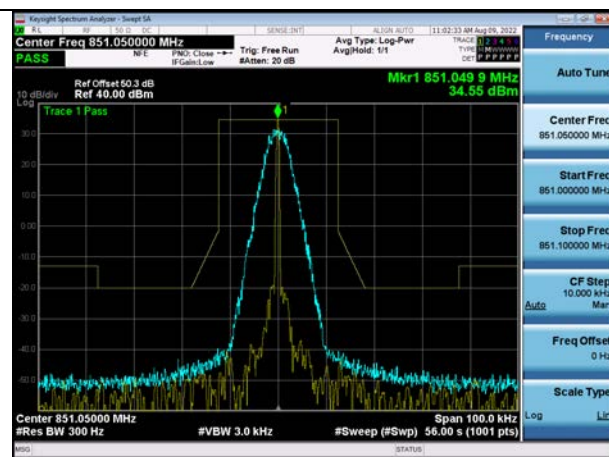
815.05MHz



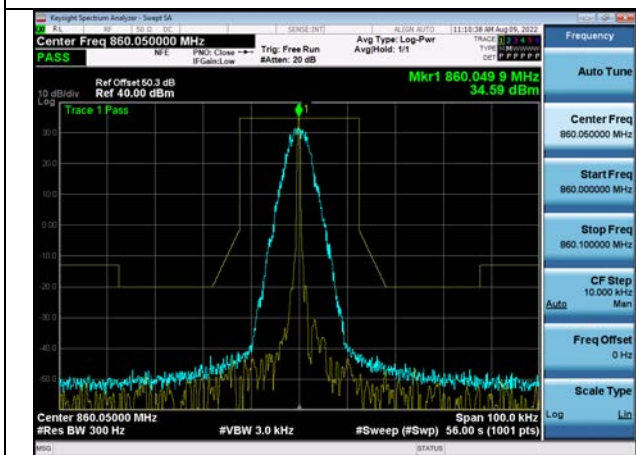
823.95MHz



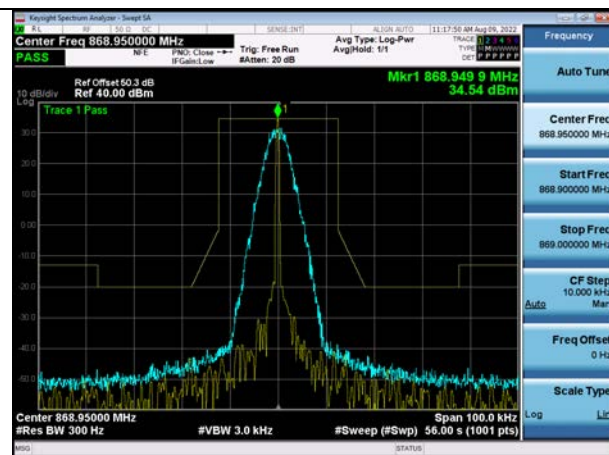
851.05MHz



860.05MHz



868.95MHz

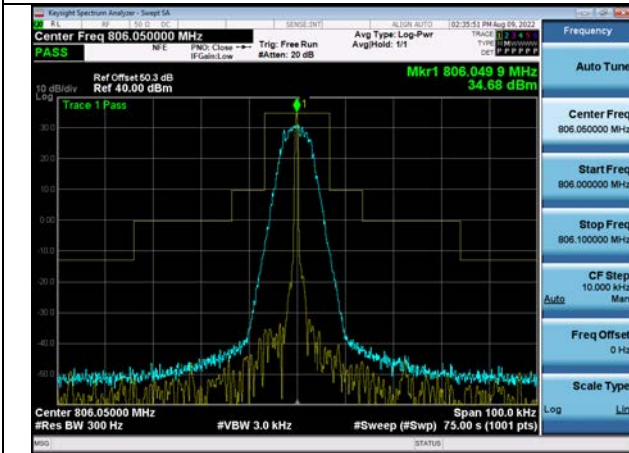


8K10F1W

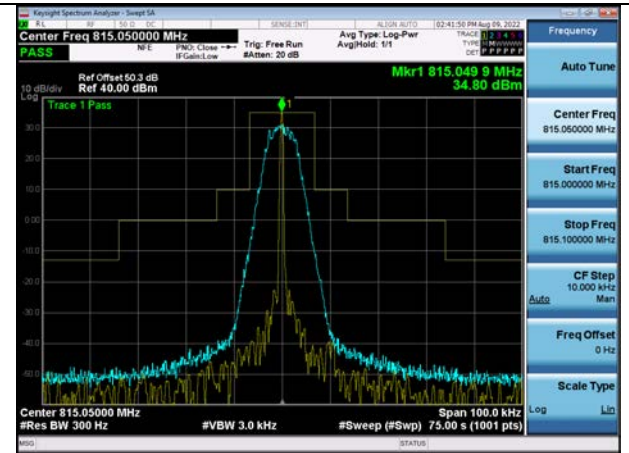
High Power

Emission Mask B

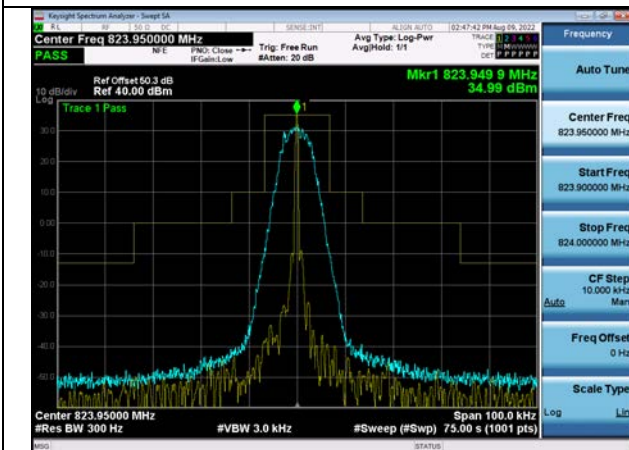
806.05MHz



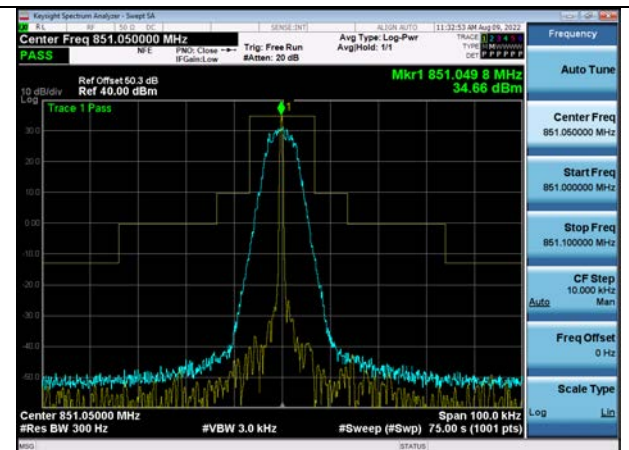
815.05MHz



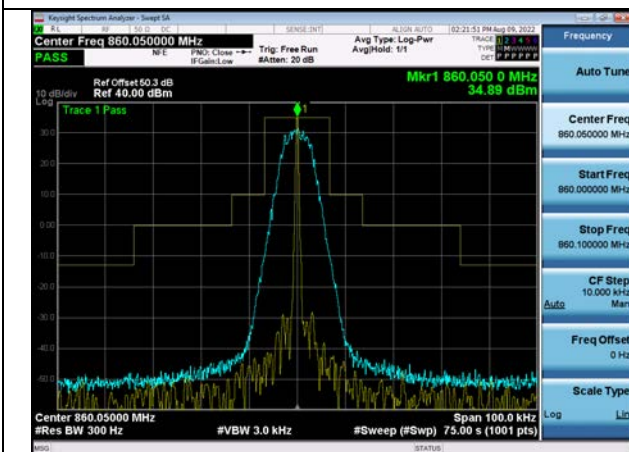
823.95MHz



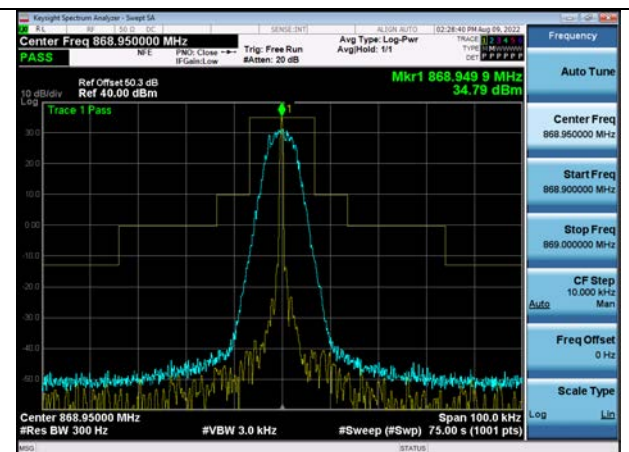
851.05MHz



860.05MHz

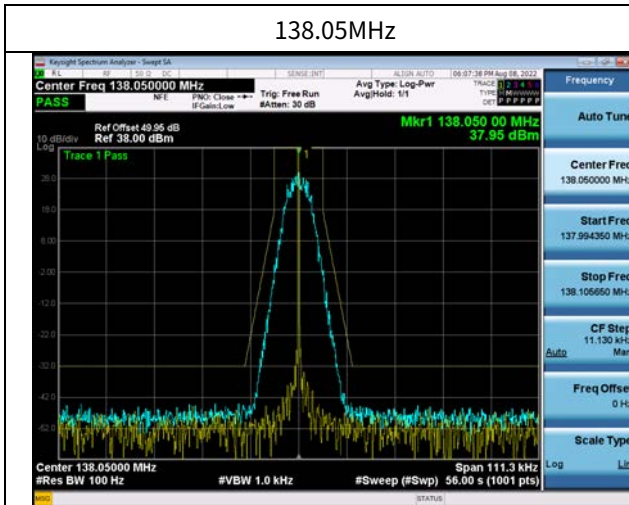


868.95MHz

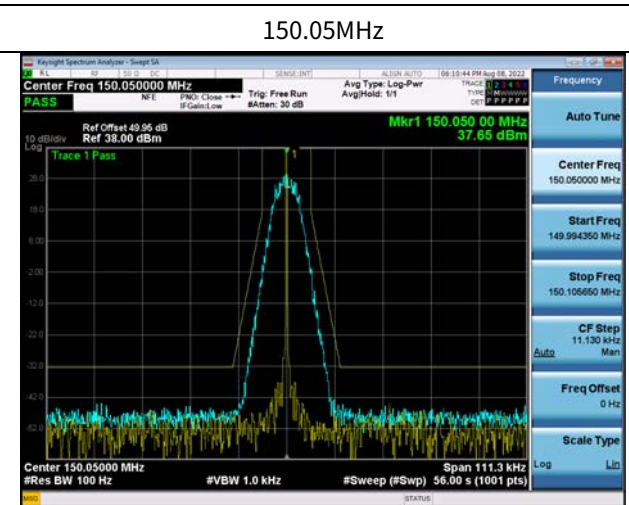


## Emission Mask D

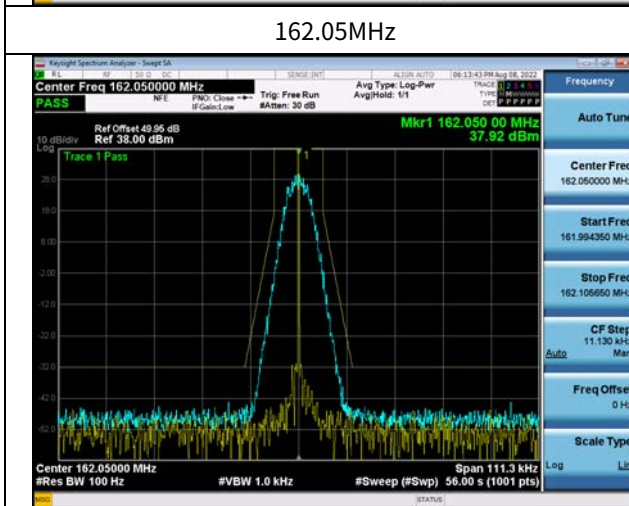
138.05MHz



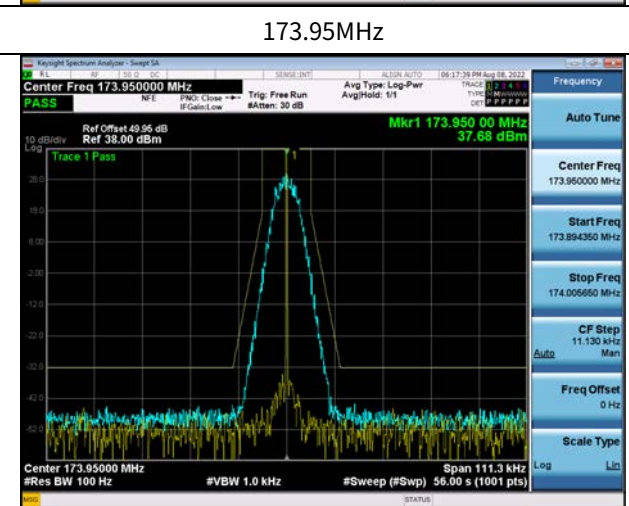
150.05MHz



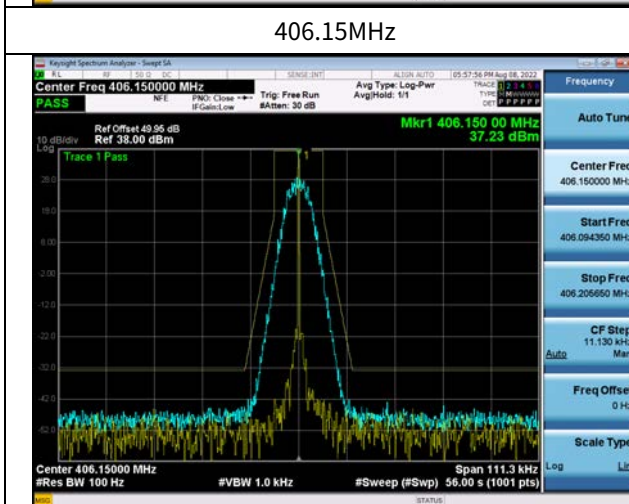
162.05MHz



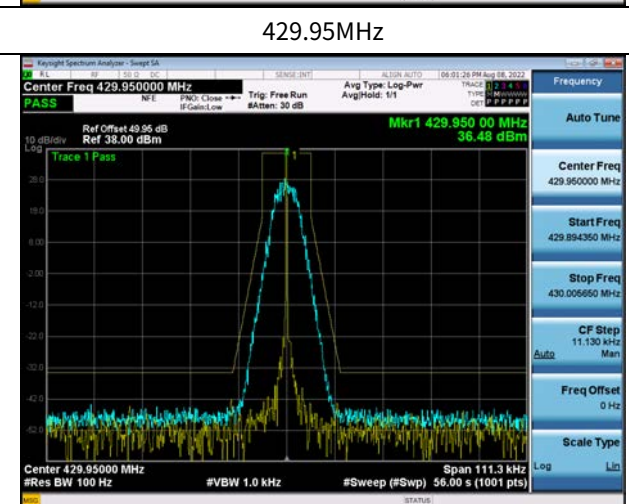
173.95MHz



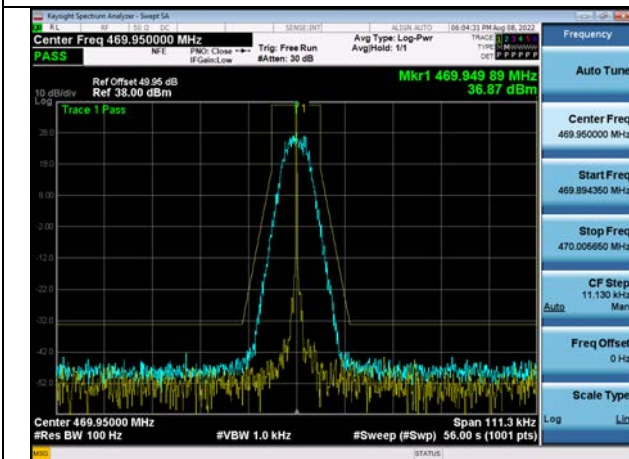
406.15MHz



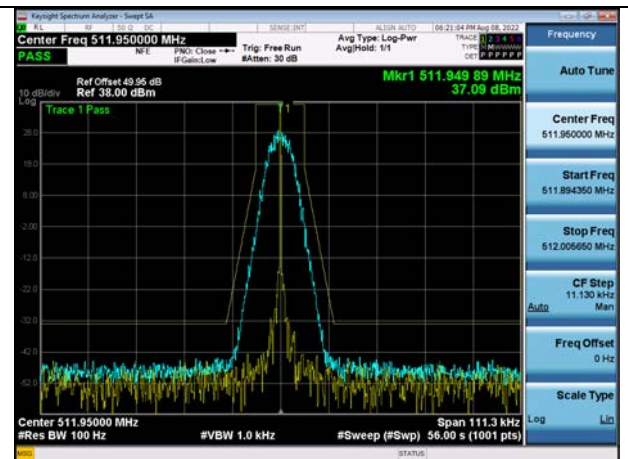
429.95MHz



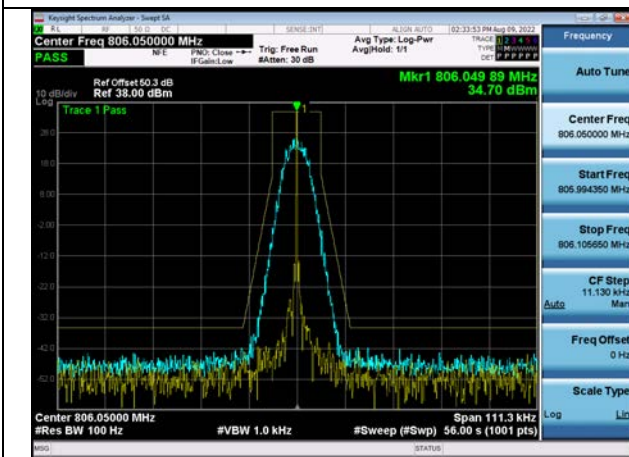
469.95MHz



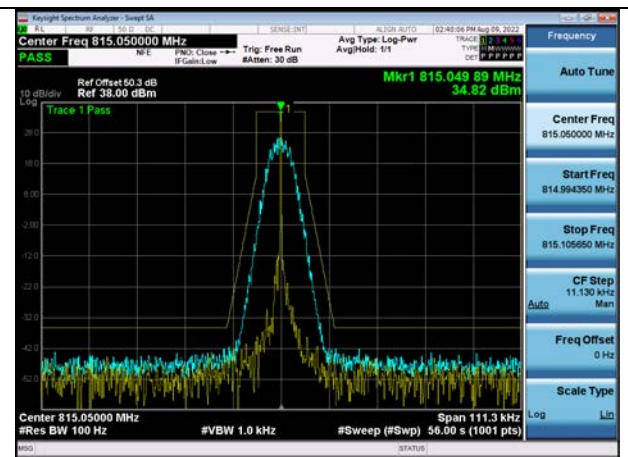
511.95MHz



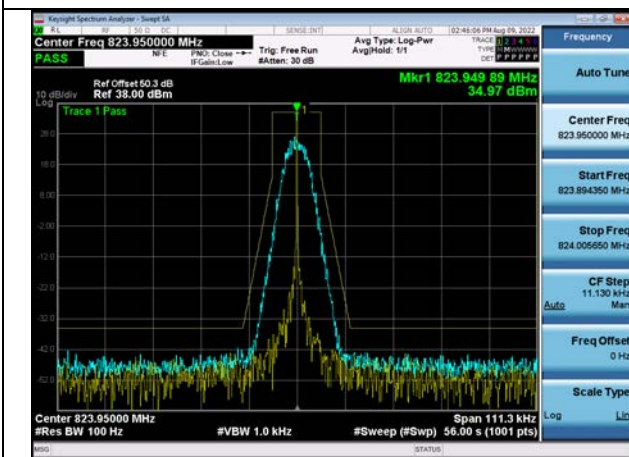
806.05MHz



815.05MHz



823.95MHz



851.05MHz

