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**Appendix A. Volume Control Evaluation Results**

**<Evaluation results for KDB 285076 D05 2.a>**

**#1 LTE B71 EVS WB 24.4Kbps**

| SMD                                           | Status | Single Value Description        | Single Value |
|-----------------------------------------------|--------|---------------------------------|--------------|
| Overall Receive Delay WB                      | Done   | Delay (Cross) [ms]              | 200.2        |
| 5.1a Receive Volume Control Performance 8N WB | Ok     | Speech Level [dB[SPL]]          | 89.39        |
| 5.1b Receive Volume Control Performance 2N WB | Ok     | Speech Level [dB[SPL]]          | 88.62        |
| 5.2 RCV Distortion and Noise - 250 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 28.42        |
| 5.2 RCV Distortion and Noise - 315 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 28.93        |
| 5.2 RCV Distortion and Noise - 400 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 29.15        |
| 5.2 RCV Distortion and Noise - 500 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 31.62        |
| 5.2 RCV Distortion and Noise - 630 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 33.86        |
| 5.2 RCV Distortion and Noise - 800 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 36.36        |
| 5.2 RCV Distortion and Noise - 1000 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 43.05        |
| 5.2 RCV Distortion and Noise - 1250 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 31.92        |
| 5.2 RCV Distortion and Noise - 1600 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 44.95        |
| 5.2 RCV Distortion and Noise - 2000 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 43.70        |
| 5.2 RCV Distortion and Noise - 2500 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 44.01        |
| 5.2 RCV Distortion and Noise - 3150 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 41.95        |
| 5.2 RCV Distortion and Noise - 4000 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 43.92        |
| 5.2 RCV Distortion and Noise - 5000 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 42.73        |
| 5.2 RCV Distortion and Noise - 250 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 30.74        |
| 5.2 RCV Distortion and Noise - 315 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 30.06        |
| 5.2 RCV Distortion and Noise - 400 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 29.53        |
| 5.2 RCV Distortion and Noise - 500 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 31.34        |
| 5.2 RCV Distortion and Noise - 630 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 34.37        |
| 5.2 RCV Distortion and Noise - 800 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 35.68        |
| 5.2 RCV Distortion and Noise - 1000 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 38.96        |
| 5.2 RCV Distortion and Noise - 1250 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 32.11        |
| 5.2 RCV Distortion and Noise - 1600 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 42.26        |
| 5.2 RCV Distortion and Noise - 2000 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 41.93        |



## Volume Control Evaluation Report

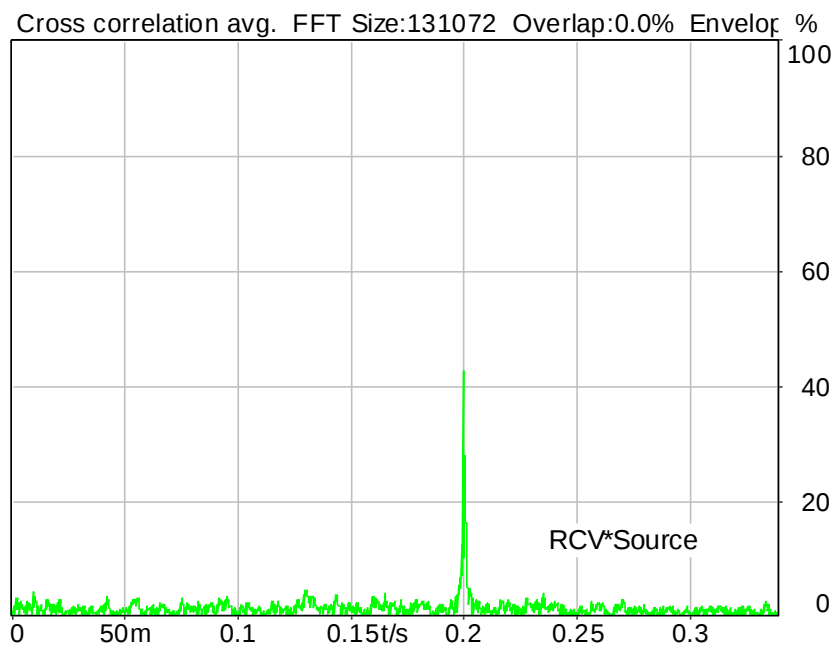
Report No. :HA3N2327-01

|                                           |    |                                               |       |
|-------------------------------------------|----|-----------------------------------------------|-------|
| 5.2 RCV Distortion and Noise - 2500 Hz WB | Ok | Distortion (Noise) [dB], 0.0 dB               | 43.41 |
| 5.2 RCV Distortion and Noise - 3150 Hz WB | Ok | Distortion (Noise) [dB], 0.0 dB               | 42.29 |
| 5.2 RCV Distortion and Noise - 4000 Hz WB | Ok | Distortion (Noise) [dB], 0.0 dB               | 44.29 |
| 5.2 RCV Distortion and Noise - 5000 Hz WB | Ok | Distortion (Noise) [dB], 0.0 dB               | 42.96 |
| 5.3 Frequency Response 8N DF              | Ok | Min. dist. to tolerance scheme [dB], 576.7 Hz | 2.08  |
| 5.3 Frequency Response 2N DF              | Ok | Min. dist. to tolerance scheme [dB], 205.7 Hz | 1.20  |



## Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

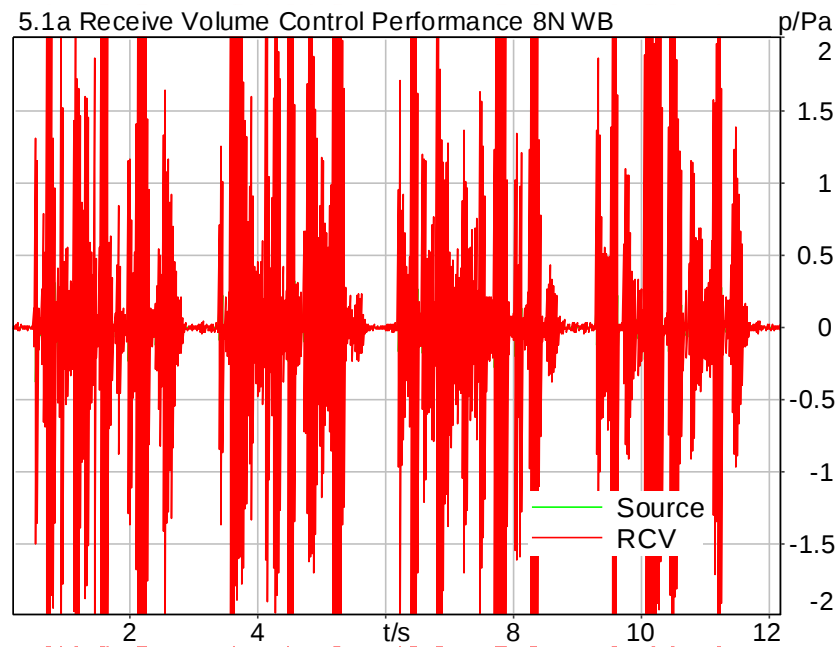


Delay (Cross): 200.2 ms

2024/1/31 下午 06:40 ACQUA 5.1.200

## 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.39 dB[SPL], Act.: 58.04% Ok

Ok

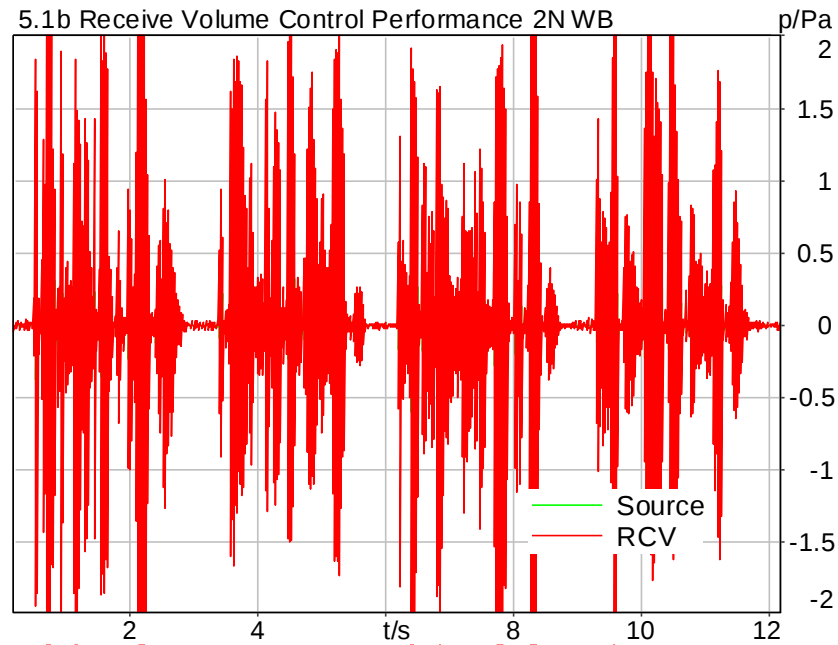
2024/1/31 下午 06:41 ACQUA 5.1.200

### Limits

|       |               |
|-------|---------------|
|       | lower         |
| Run 1 | 88.00 dB20uPa |

## 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 88.62 dB[SPL], Act.: 35.31% Ok

Ok

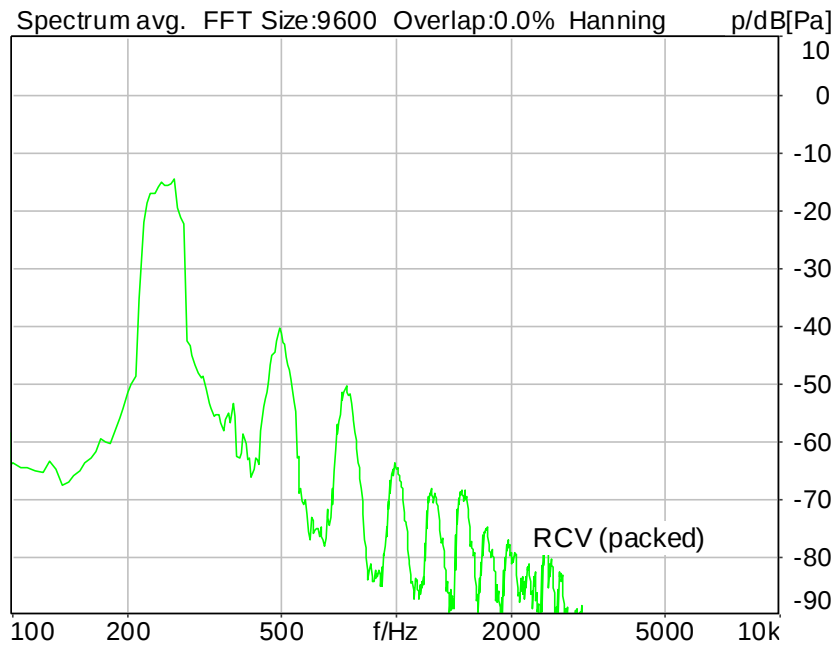
2024/1/31 下午 07:00 ACQUA 5.1.200

### Limits

|       |               |
|-------|---------------|
|       | lower         |
| Run 1 | 76.00 dB20uPa |

## 5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 28.42 dB (3.79%) Ok

Ok

2024/1/31 下午 06:41 ACQUA 5.1.200

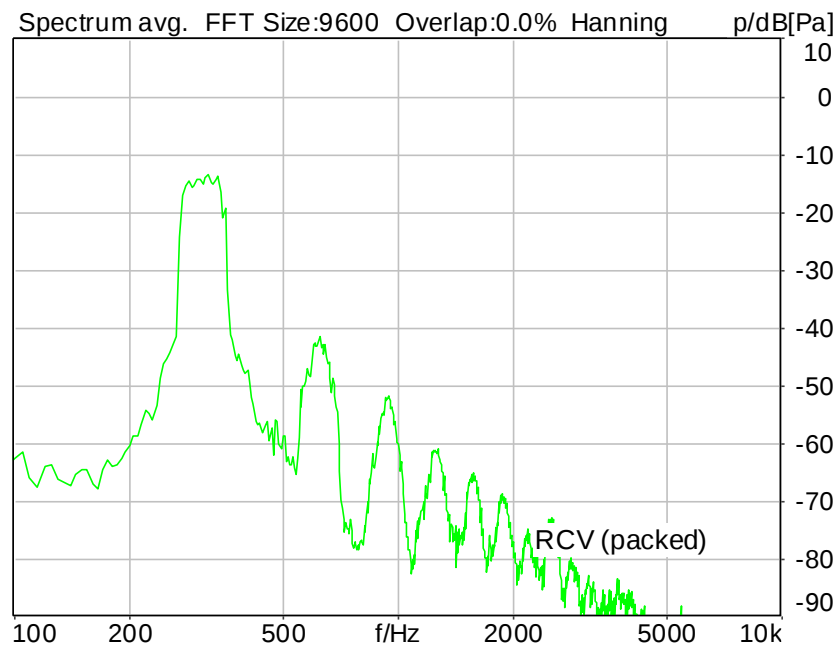
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 315 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 28.93 dB (3.58%) Ok

Ok

2024/1/31 下午 06:42 ACQUA 5.1.200

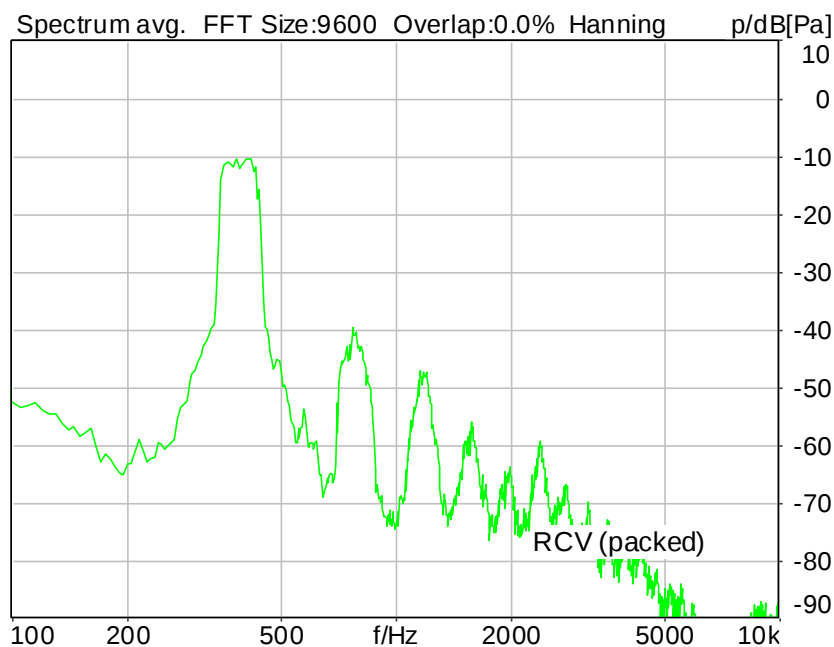
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 400 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 29.15 dB (3.49%) Ok

Ok

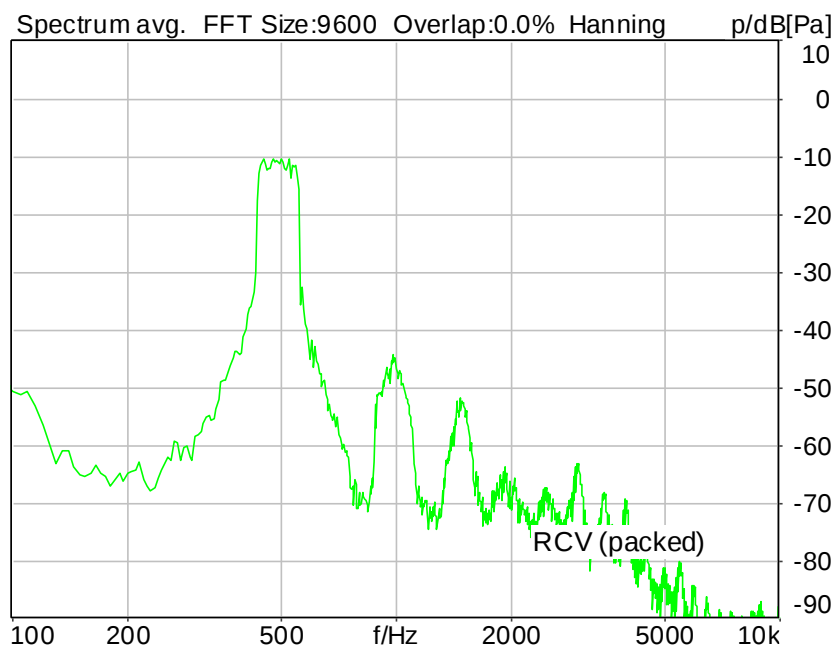
2024/1/31 下午 06:42 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 31.62 dB (2.62%) Ok

Ok

2024/1/31 下午 06:43 ACQUA 5.1.200

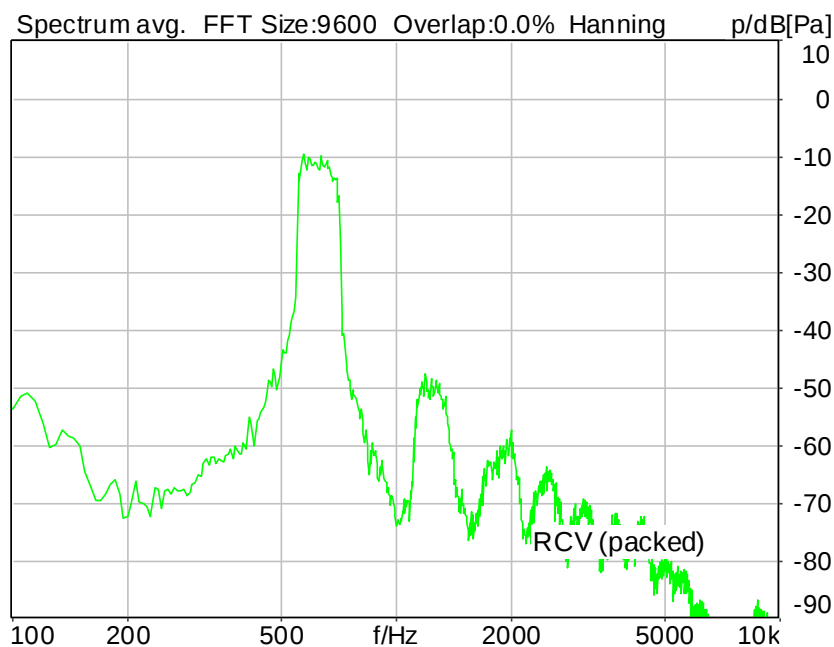
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 630 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 33.86 dB (2.03%) Ok

Ok

2024/1/31 下午 06:43 ACQUA 5.1.200

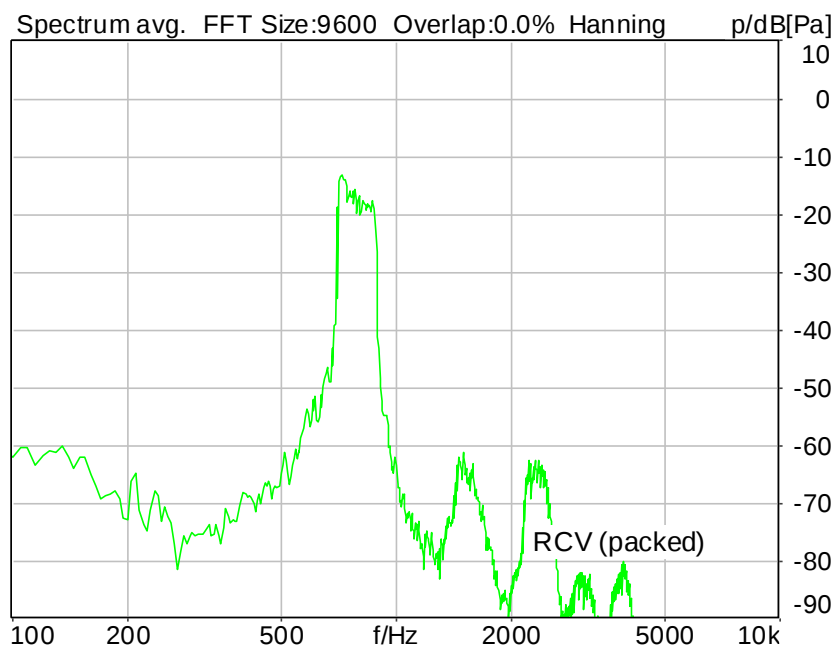
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 800 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 36.36 dB (1.52%) Ok

Ok

2024/1/31 下午 06:44 ACQUA 5.1.200

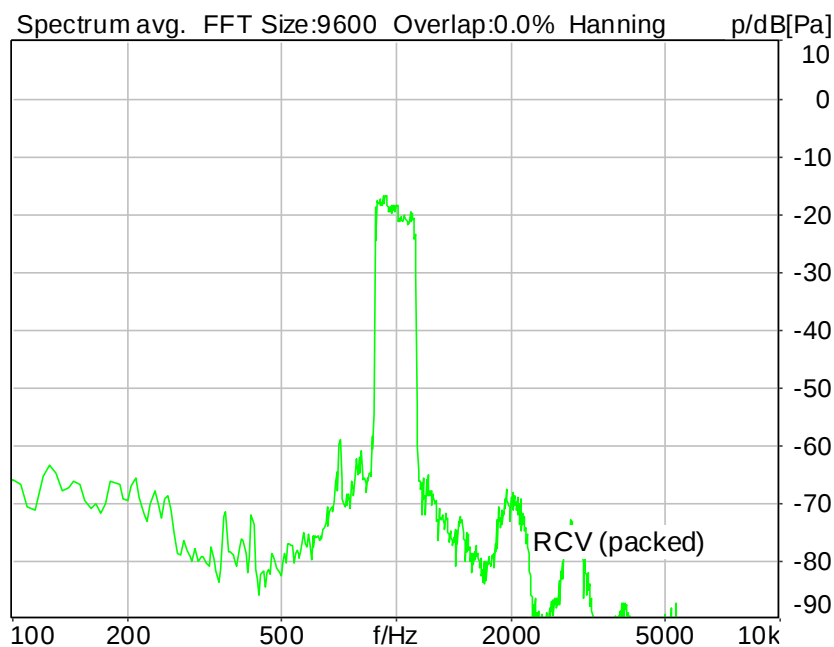
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 1000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 43.05 dB (0.70%) Ok

Ok

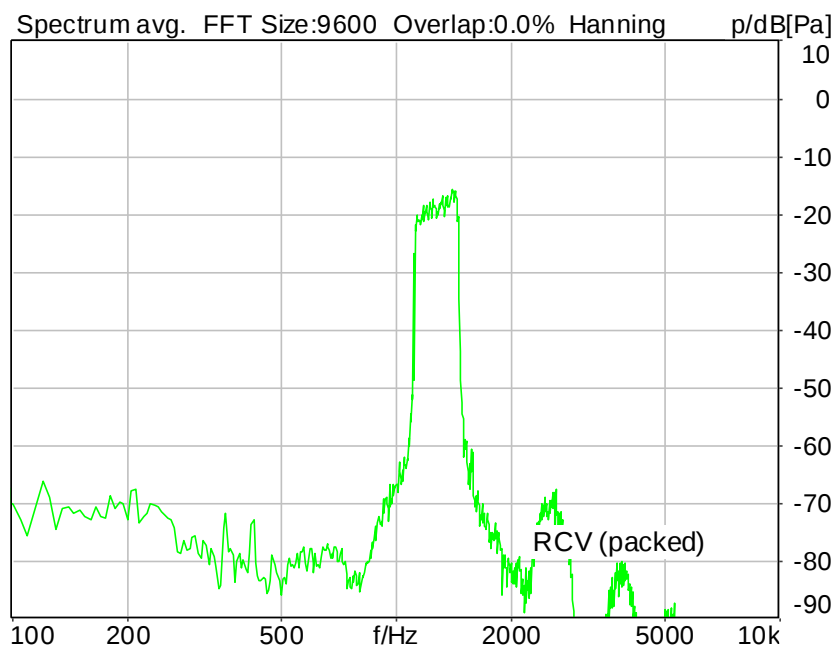
2024/1/31 下午 06:44 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 1250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 31.92 dB (2.54%) Ok

Ok

2024/1/31 下午 06:45 ACQUA 5.1.200

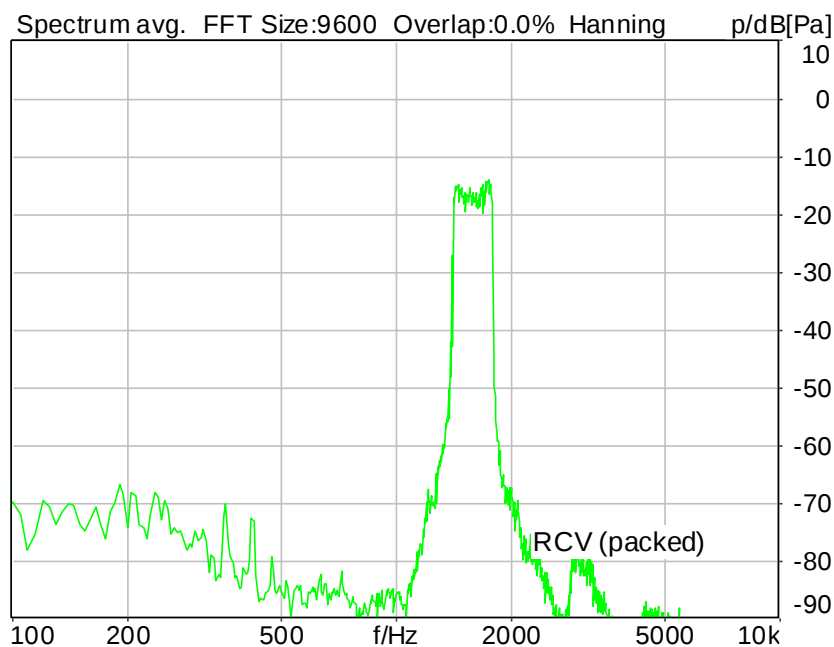
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 1600 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 44.95 dB (0.57%) Ok

Ok

2024/1/31 下午 06:45 ACQUA 5.1.200

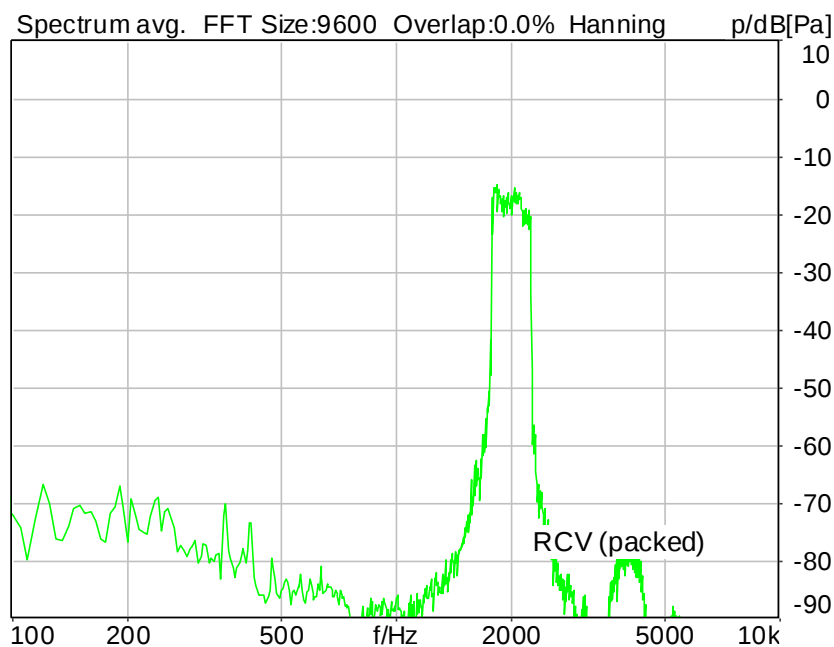
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 2000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 43.70 dB (0.65%) Ok

Ok

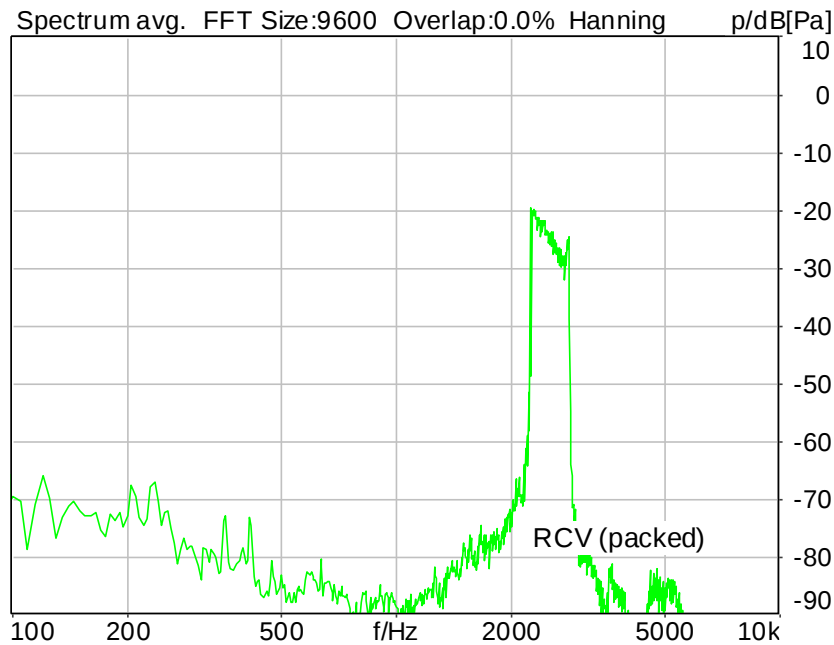
2024/1/31 下午 06:45 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 2500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 44.01 dB (0.63%) Ok

Ok

2024/1/31 下午 06:46 ACQUA 5.1.200

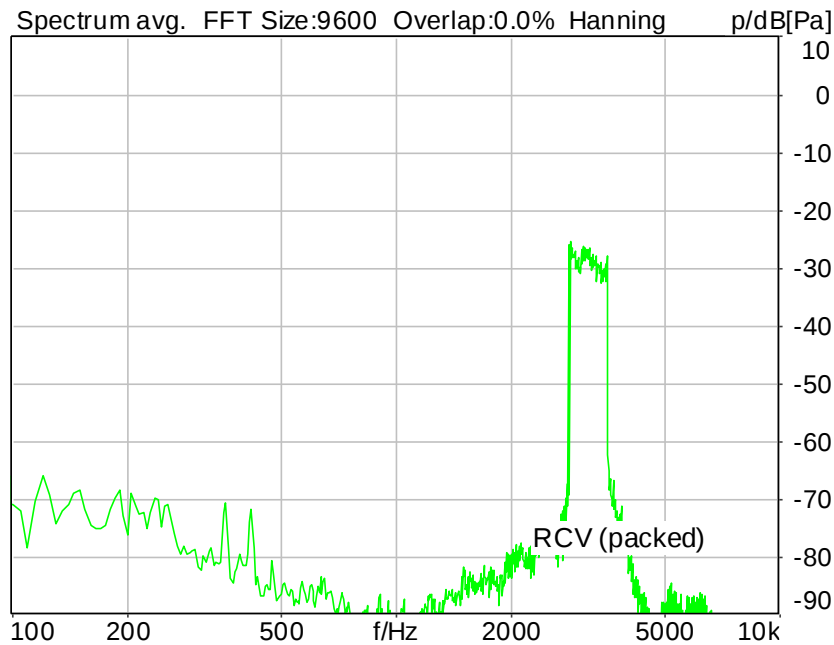
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 3150 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 41.95 dB (0.80%) Ok

Ok

2024/1/31 下午 06:46 ACQUA 5.1.200

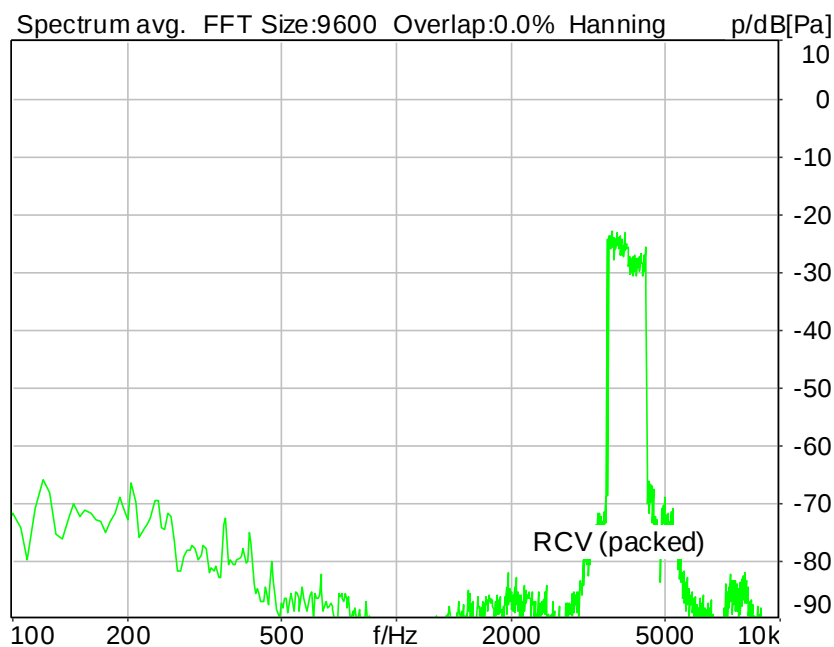
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 4000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 43.92 dB (0.64%) Ok

Ok

2024/1/31 下午 06:47 ACQUA 5.1.200

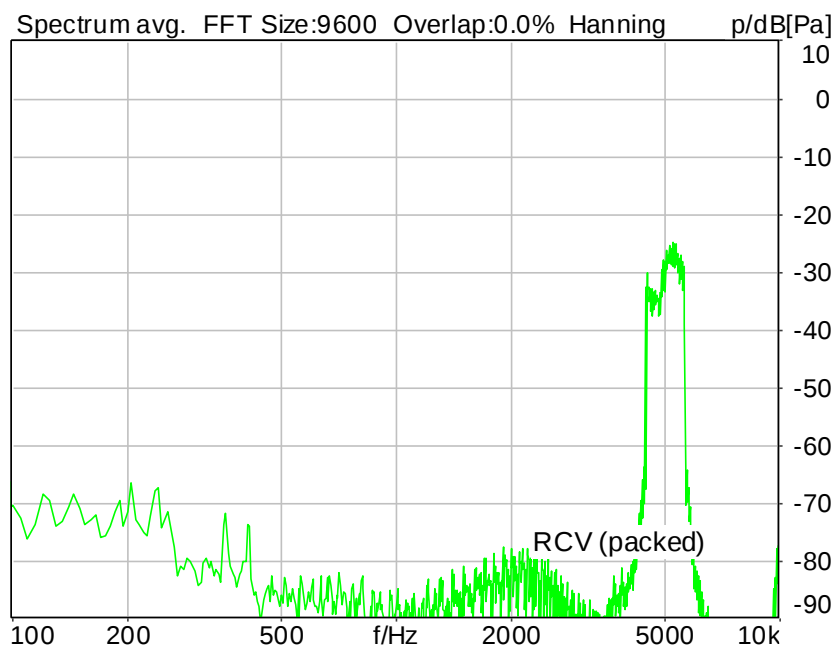
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 5000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 42.73 dB (0.73%) Ok

Ok

2024/1/31 下午 06:47 ACQUA 5.1.200

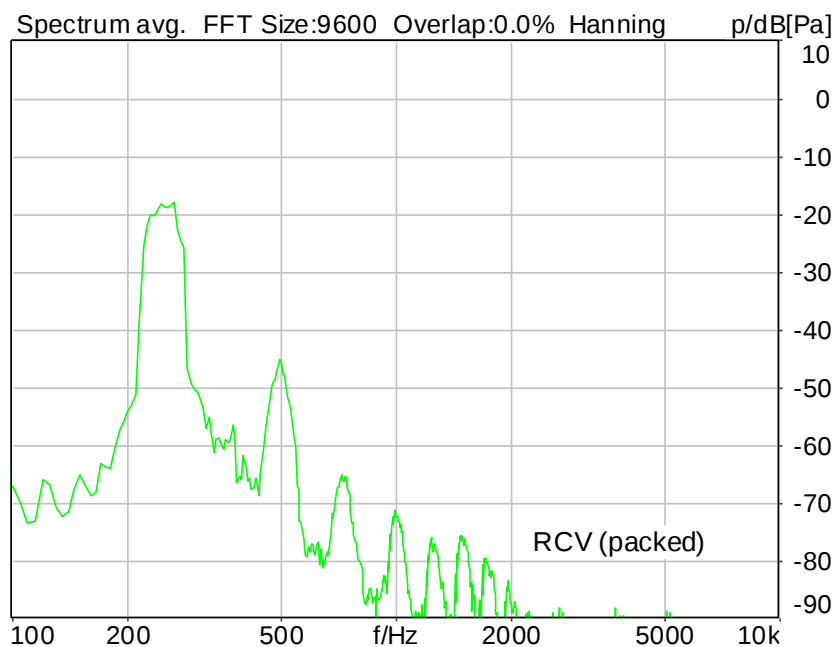
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 30.74 dB (2.90%) Ok

Ok

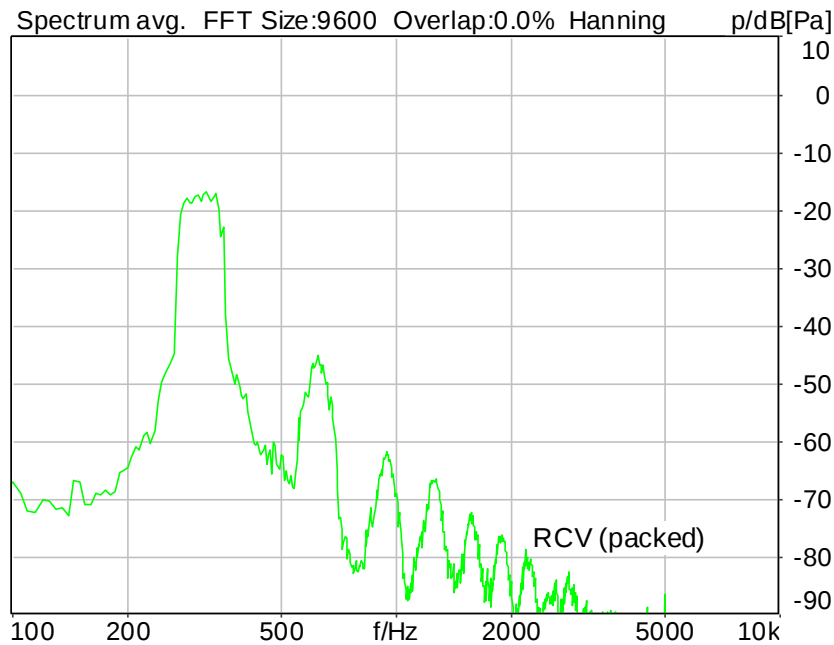
2024/1/31 下午 06:49 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 315 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 30.06 dB (3.14%) Ok

Ok

2024/1/31 下午 06:50 ACQUA 5.1.200

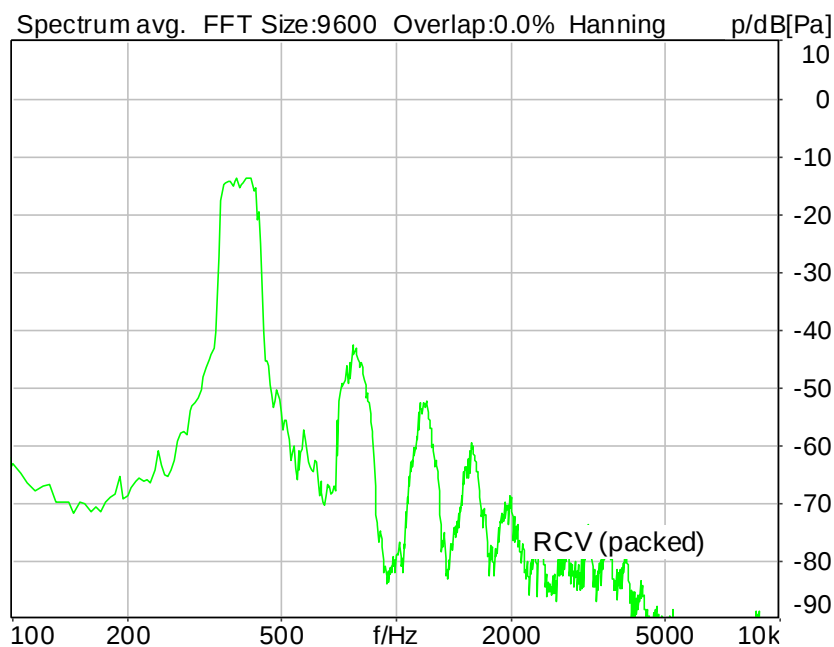
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 400 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 29.53 dB (3.34%) Ok

Ok

2024/1/31 下午 06:50 ACQUA 5.1.200

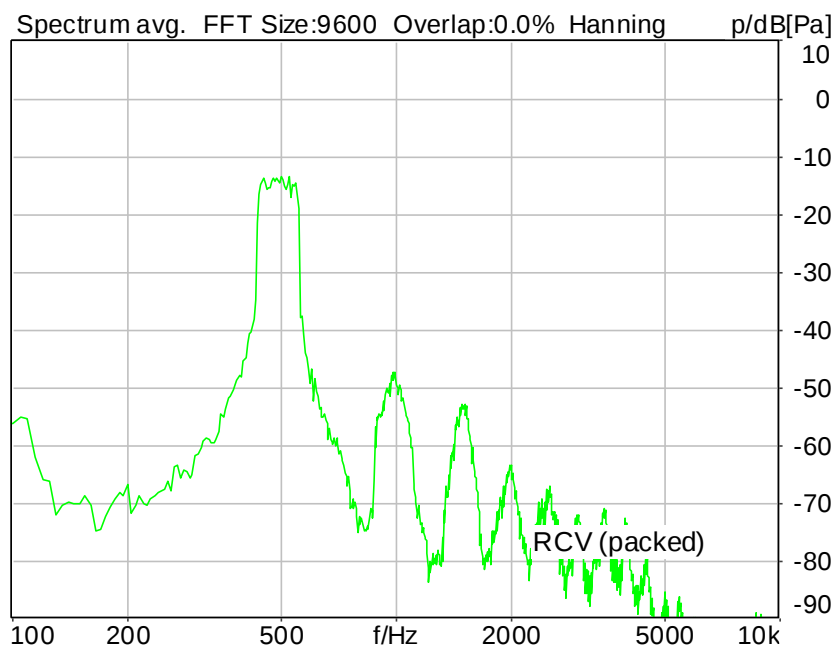
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 31.34 dB (2.71%) Ok

Ok

2024/1/31 下午 06:51 ACQUA 5.1.200

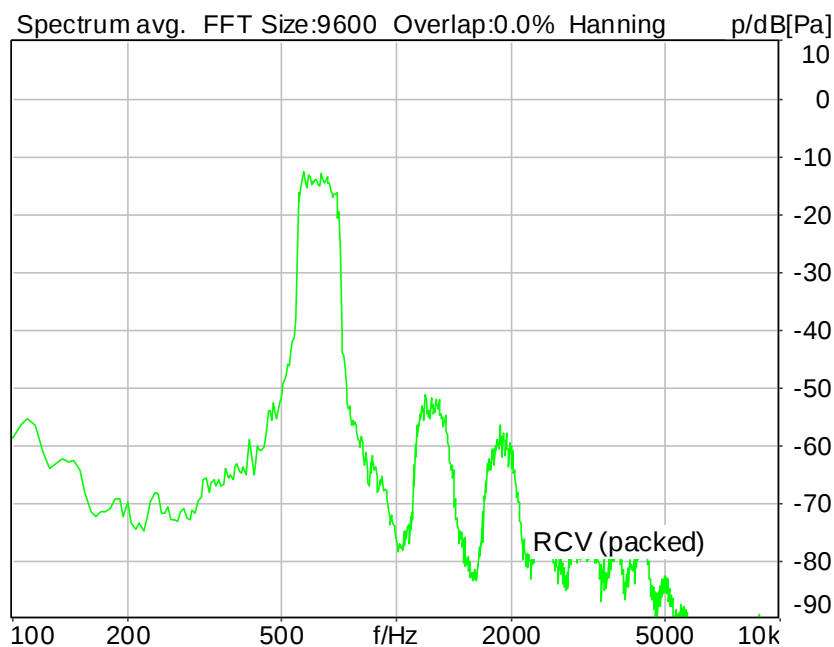
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 630 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 34.37 dB (1.91%) Ok

Ok

2024/1/31 下午 06:51 ACQUA 5.1.200

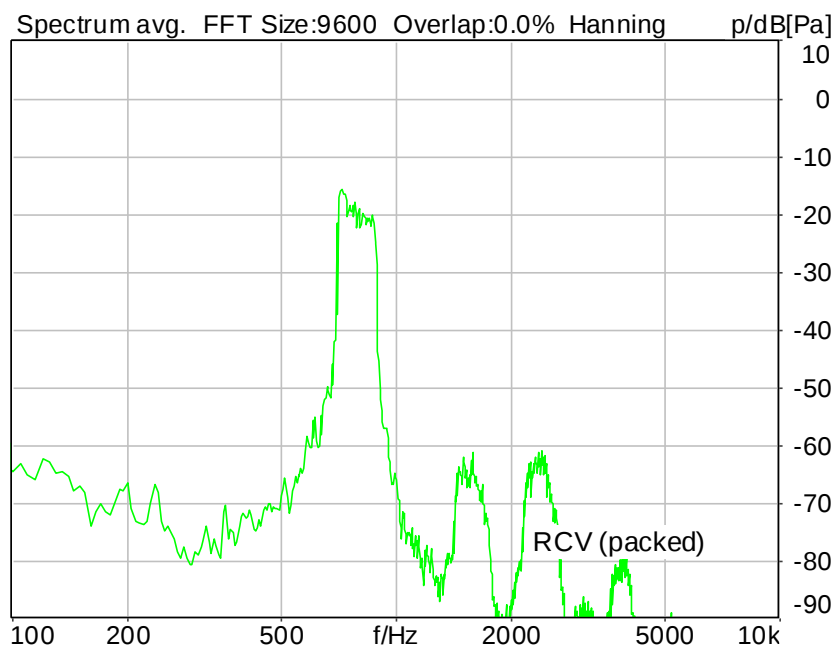
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 800 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 35.68 dB (1.64%) Ok

Ok

2024/1/31 下午 06:52 ACQUA 5.1.200

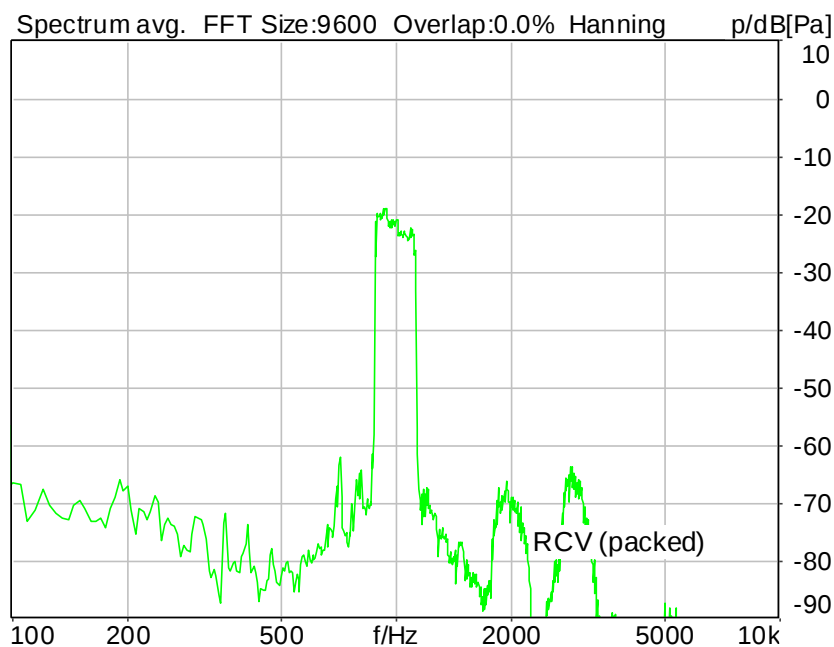
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 1000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 38.96 dB (1.13%) Ok

Ok

2024/1/31 下午 06:52 ACQUA 5.1.200

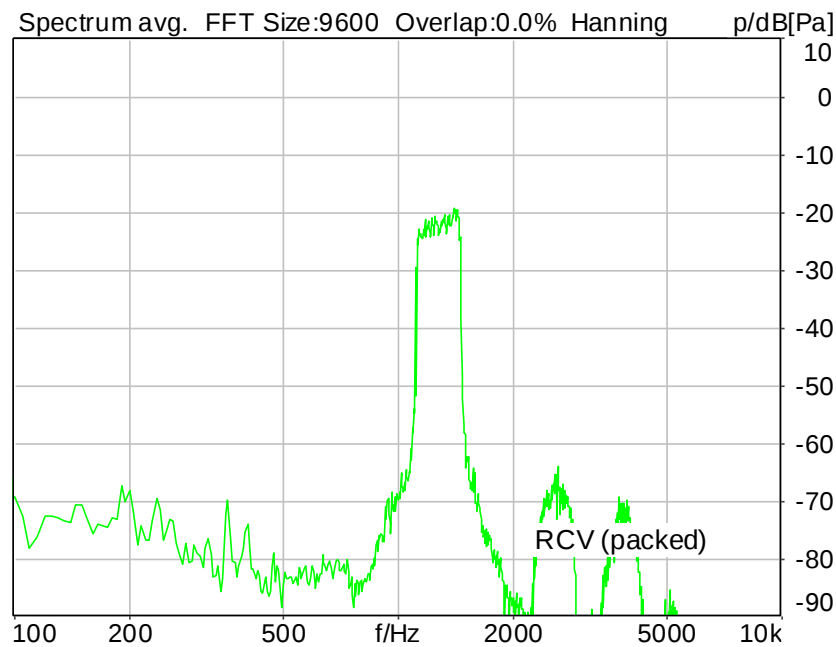
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 1250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 32.11 dB (2.48%) Ok

Ok

2024/1/31 下午 06:53 ACQUA 5.1.200

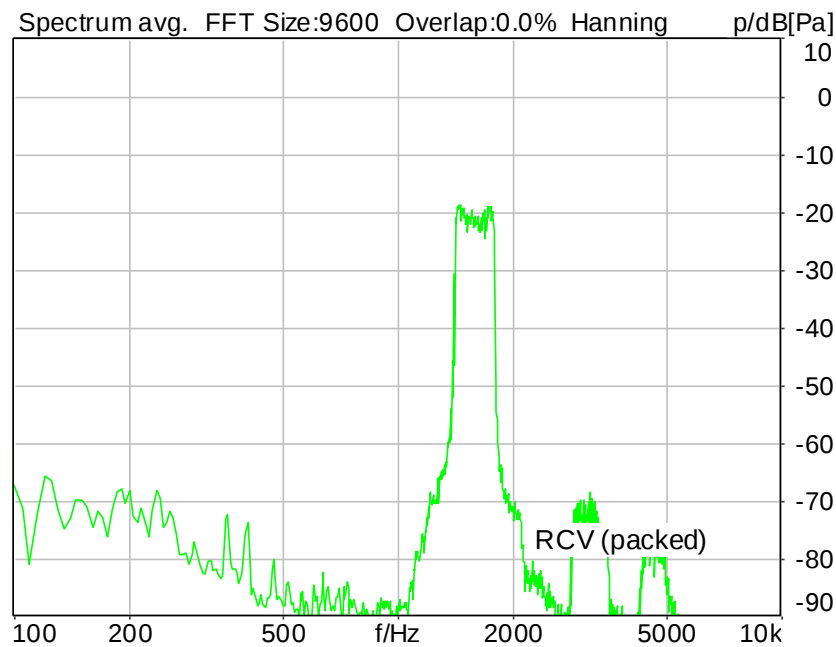
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 1600 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 42.26 dB (0.77%) Ok

Ok

2024/1/31 下午 06:53 ACQUA 5.1.200

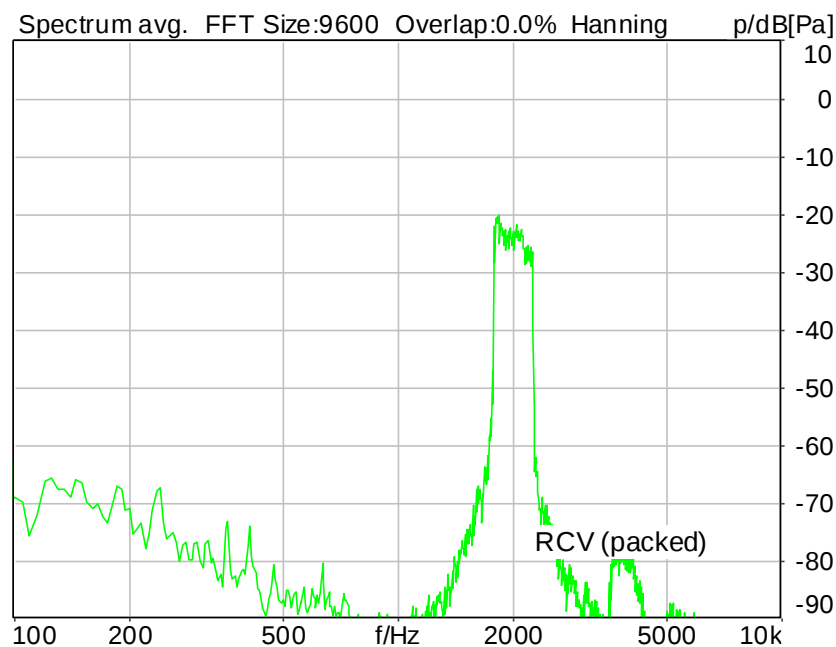
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 2000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 41.93 dB (0.80%) Ok

Ok

2024/1/31 下午 06:54 ACQUA 5.1.200

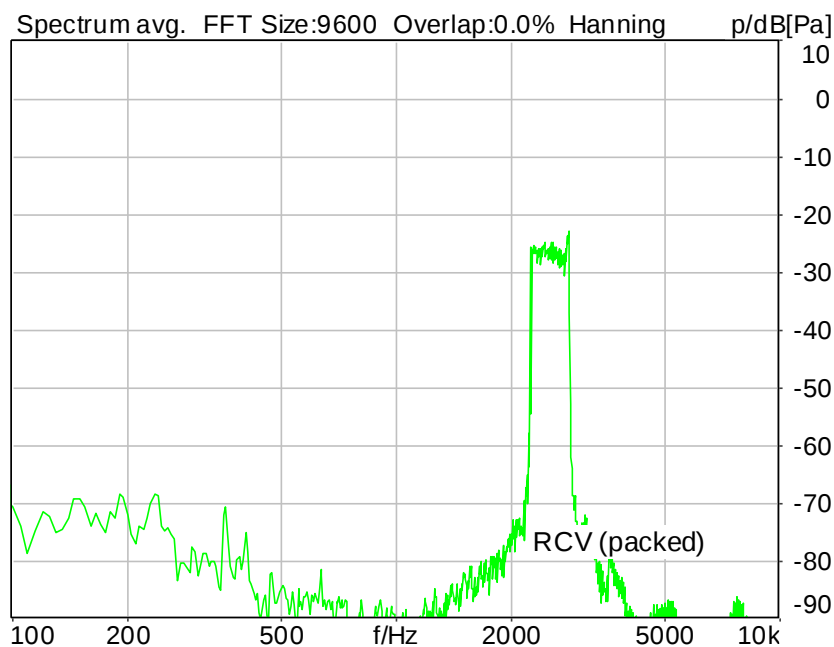
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 2500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 43.41 dB (0.68%) Ok

Ok

2024/1/31 下午 06:54 ACQUA 5.1.200

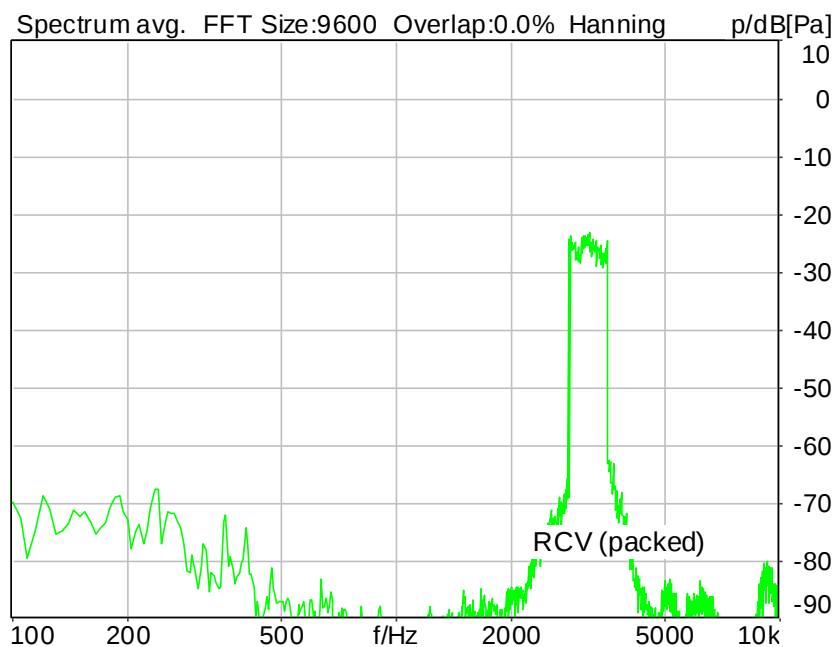
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 3150 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 42.29 dB (0.77%) Ok

Ok

2024/1/31 下午 06:55 ACQUA 5.1.200

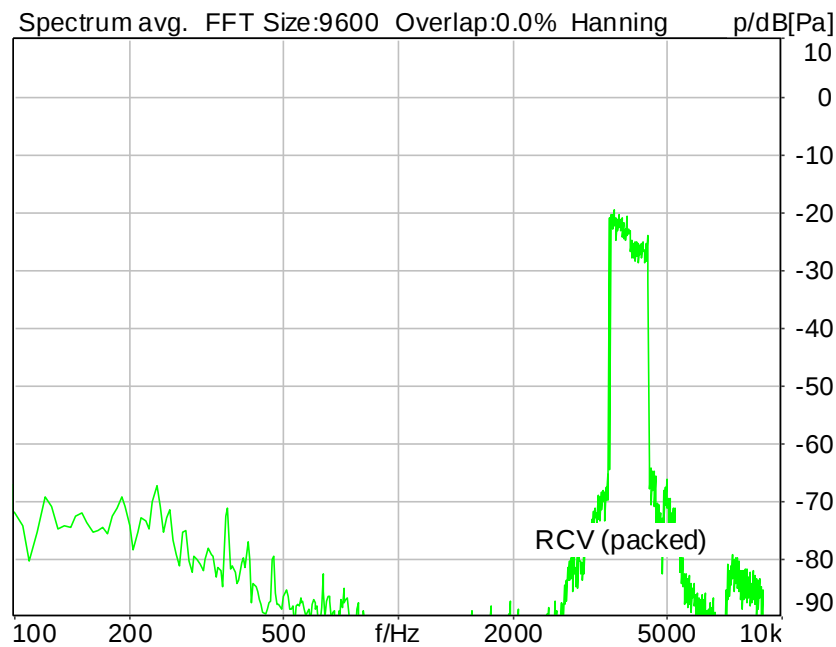
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 4000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 44.29 dB (0.61%) Ok

Ok

2024/1/31 下午 06:55 ACQUA 5.1.200

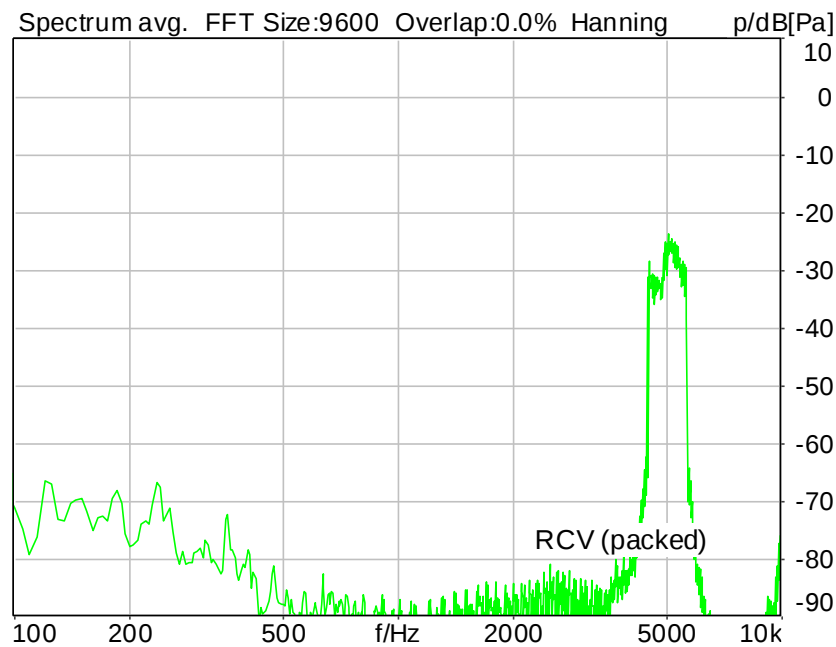
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 5000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 42.96 dB (0.71%) Ok

Ok

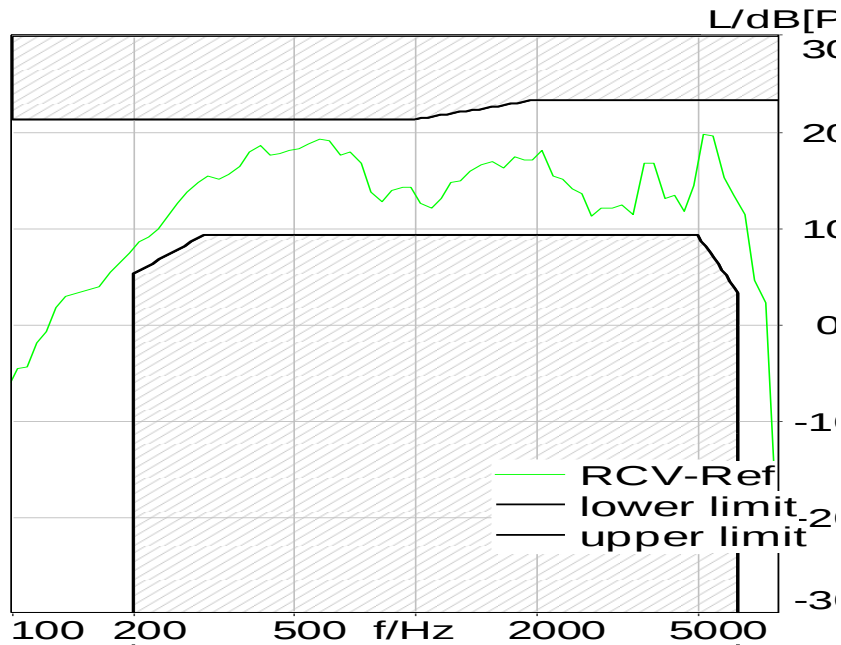
2024/1/31 下午 06:56 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

### 5.3 Frequency Response 8N DF

TIA-5050 (2018-01) \ Measurements \ Wideband



Absolute minimal distance

2.08 dB at 576.7 Hz Ok

Ok

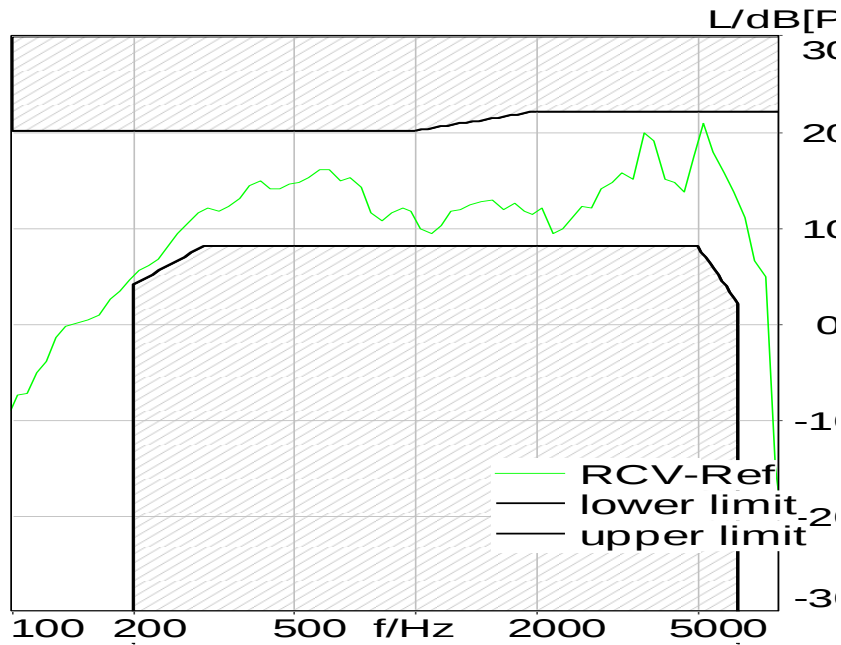
2024/1/31 下午 06:48 ACQUA 5.1.200

#### Limits

|       |                    |
|-------|--------------------|
|       | lower              |
| Run 1 | Fit into tolerance |

### 5.3 Frequency Response 2N DF

TIA-5050 (2018-01) \ Measurements \ Wideband



Absolute minimal distance

1.20 dB at 205.7 Hz Ok

Ok

2024/1/31 下午 06:56 ACQUA 5.1.200

#### Limits

|       |                    |
|-------|--------------------|
|       | lower              |
| Run 1 | Fit into tolerance |

## #2 NR n7 EVS WB 24.4Kbps

| SMD                                           | Status | Single Value Description        | Single Value |
|-----------------------------------------------|--------|---------------------------------|--------------|
| Overall Receive Delay WB                      | Done   | Delay (Cross) [ms]              | 194.0        |
| 5.1a Receive Volume Control Performance 8N WB | Ok     | Speech Level [dB[SPL]]          | 89.10        |
| 5.1b Receive Volume Control Performance 2N WB | Ok     | Speech Level [dB[SPL]]          | 88.69        |
| 5.2 RCV Distortion and Noise - 250 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 27.83        |
| 5.2 RCV Distortion and Noise - 315 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 28.33        |
| 5.2 RCV Distortion and Noise - 400 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 29.14        |
| 5.2 RCV Distortion and Noise - 500 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 31.94        |
| 5.2 RCV Distortion and Noise - 630 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 33.74        |
| 5.2 RCV Distortion and Noise - 800 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 35.81        |
| 5.2 RCV Distortion and Noise - 1000 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 42.62        |
| 5.2 RCV Distortion and Noise - 1250 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 31.94        |
| 5.2 RCV Distortion and Noise - 1600 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 44.80        |
| 5.2 RCV Distortion and Noise - 2000 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 43.66        |
| 5.2 RCV Distortion and Noise - 2500 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 44.03        |
| 5.2 RCV Distortion and Noise - 3150 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 41.68        |
| 5.2 RCV Distortion and Noise - 4000 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 43.99        |
| 5.2 RCV Distortion and Noise - 5000 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 42.90        |
| 5.2 RCV Distortion and Noise - 250 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 28.48        |
| 5.2 RCV Distortion and Noise - 315 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 28.44        |
| 5.2 RCV Distortion and Noise - 400 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 28.93        |
| 5.2 RCV Distortion and Noise - 500 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 31.40        |
| 5.2 RCV Distortion and Noise - 630 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 33.85        |
| 5.2 RCV Distortion and Noise - 800 Hz WB      | Ok     | Distortion (Noise) [dB], 0.0 dB | 35.59        |
| 5.2 RCV Distortion and Noise - 1000 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 40.37        |
| 5.2 RCV Distortion and Noise - 1250 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 32.07        |
| 5.2 RCV Distortion and Noise - 1600 Hz WB     | Ok     | Distortion (Noise) [dB], 0.0 dB | 43.06        |



## Volume Control Evaluation Report

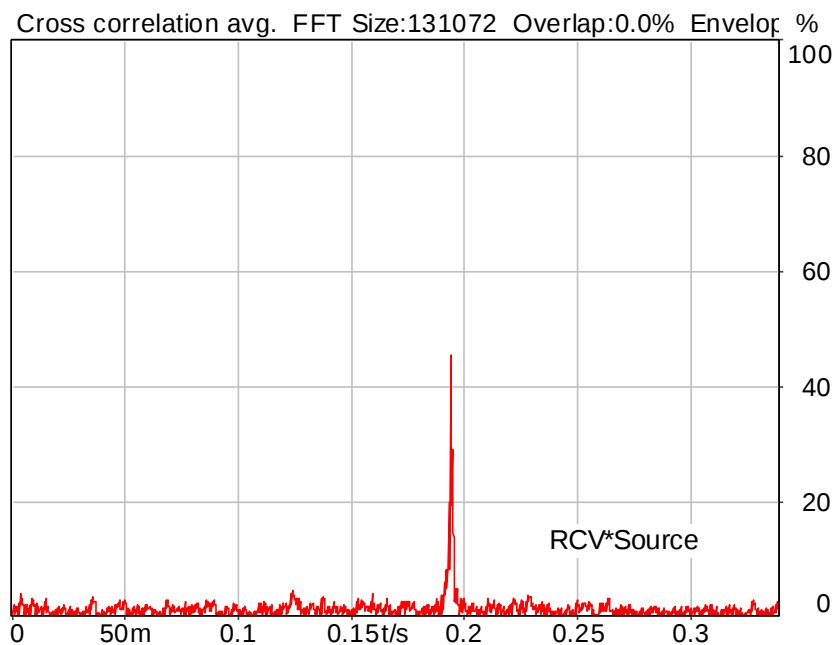
Report No. :HA3N2327-01

|                                           |    |                                               |       |
|-------------------------------------------|----|-----------------------------------------------|-------|
| 5.2 RCV Distortion and Noise - 2000 Hz WB | Ok | Distortion (Noise) [dB], 0.0 dB               | 42.01 |
| 5.2 RCV Distortion and Noise - 2500 Hz WB | Ok | Distortion (Noise) [dB], 0.0 dB               | 43.76 |
| 5.2 RCV Distortion and Noise - 3150 Hz WB | Ok | Distortion (Noise) [dB], 0.0 dB               | 42.43 |
| 5.2 RCV Distortion and Noise - 4000 Hz WB | Ok | Distortion (Noise) [dB], 0.0 dB               | 44.34 |
| 5.2 RCV Distortion and Noise - 5000 Hz WB | Ok | Distortion (Noise) [dB], 0.0 dB               | 43.18 |
| 5.3 Frequency Response 8N FF              | Ok | Min. dist. to tolerance scheme [dB], 576.7 Hz | 0.60  |
| 5.3 Frequency Response 2N FF              | Ok | Min. dist. to tolerance scheme [dB], 611.7 Hz | 2.00  |



## Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

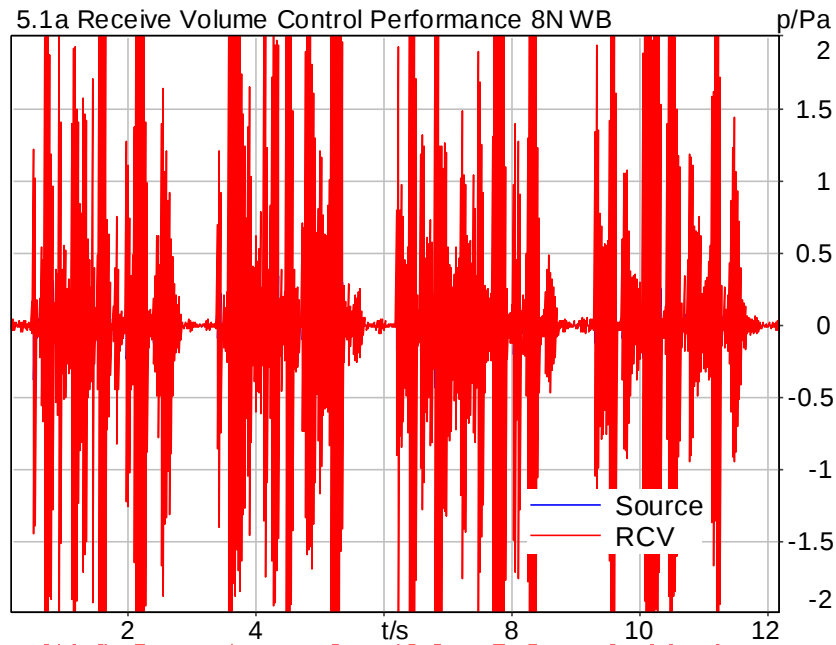


Delay (Cross): 194.0 ms

2024/1/24 下午 01:36 ACQUA 5.1.200

## 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.10 dB[SPL], Act.: 59.85% Ok

Ok

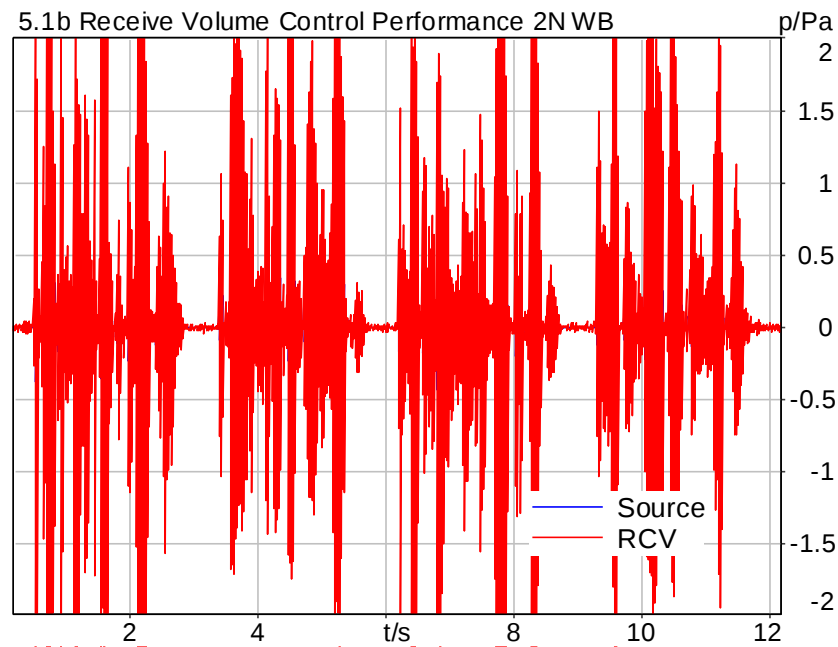
2024/1/24 下午 01:36 ACQUA 5.1.200

### Limits

|       |               |
|-------|---------------|
|       | lower         |
| Run 1 | 88.00 dB20uPa |

## 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 88.69 dB[SPL], Act.: 47.30% Ok

Ok

2024/1/24 下午 01:45 ACQUA 5.1.200

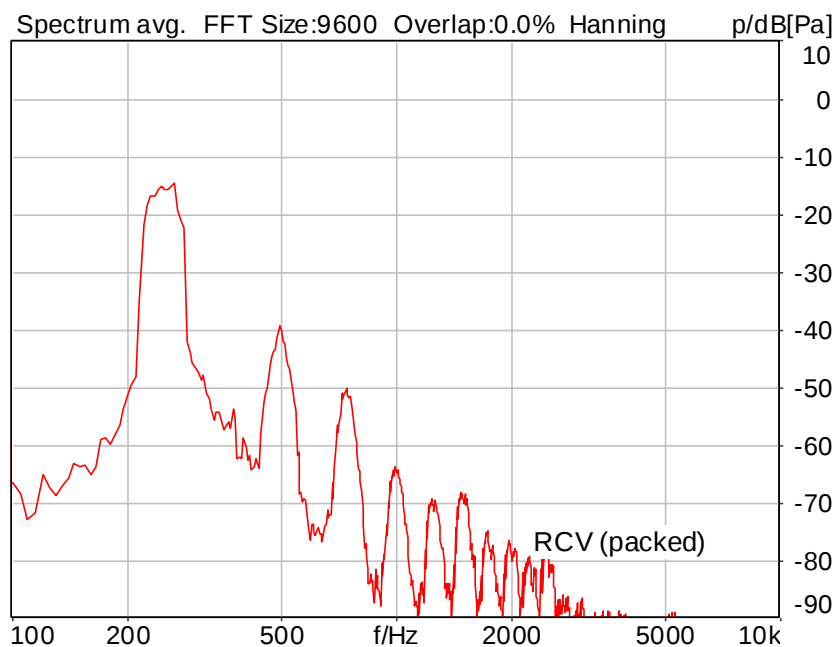
### Limits

|       |               |
|-------|---------------|
|       | lower         |
| Run 1 | 76.00 dB20uPa |



## 5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 27.83 dB (4.06%) Ok

Ok

2024/1/24 下午 01:36 ACQUA 5.1.200

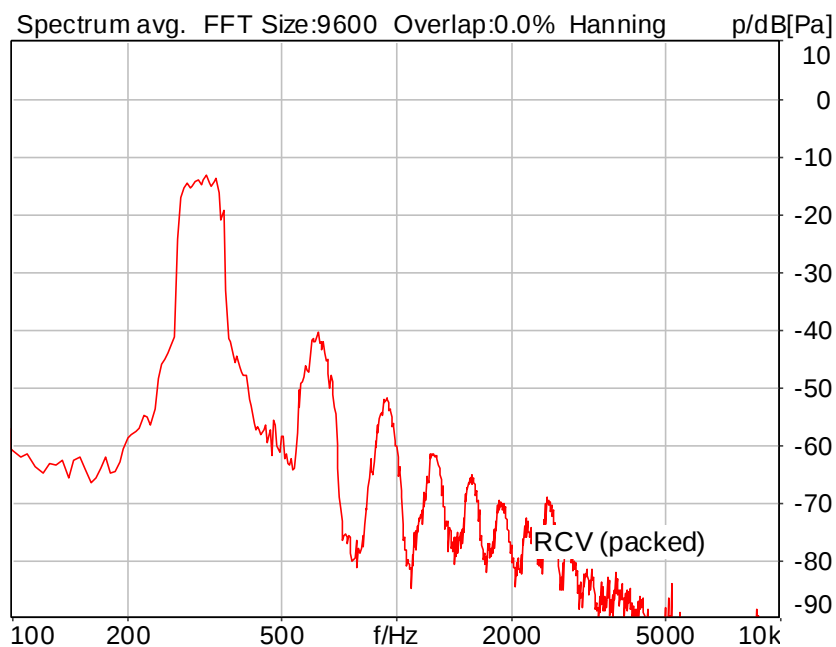
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 315 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 28.33 dB (3.83%) Ok

Ok

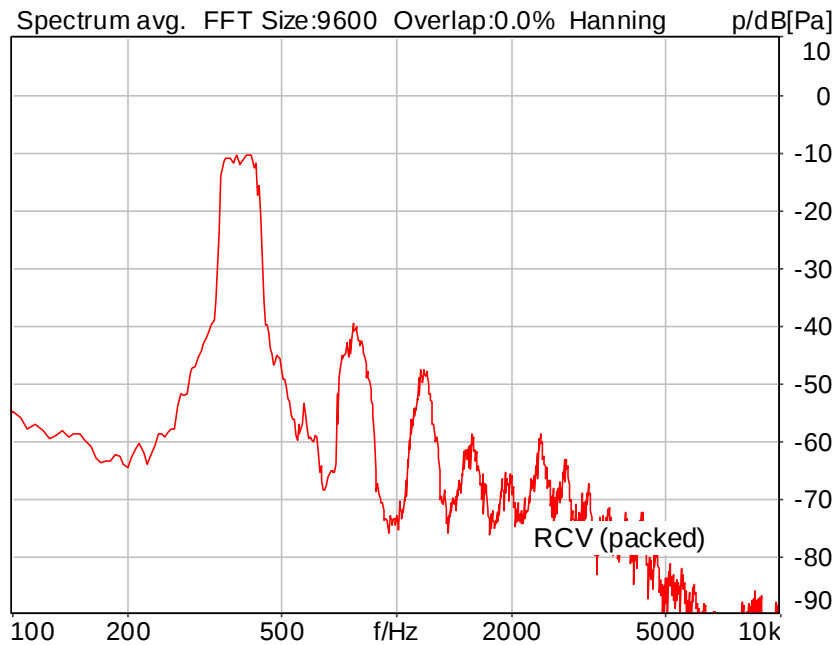
2024/1/24 下午 01:37 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 400 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 29.14 dB (3.49%) Ok

Ok

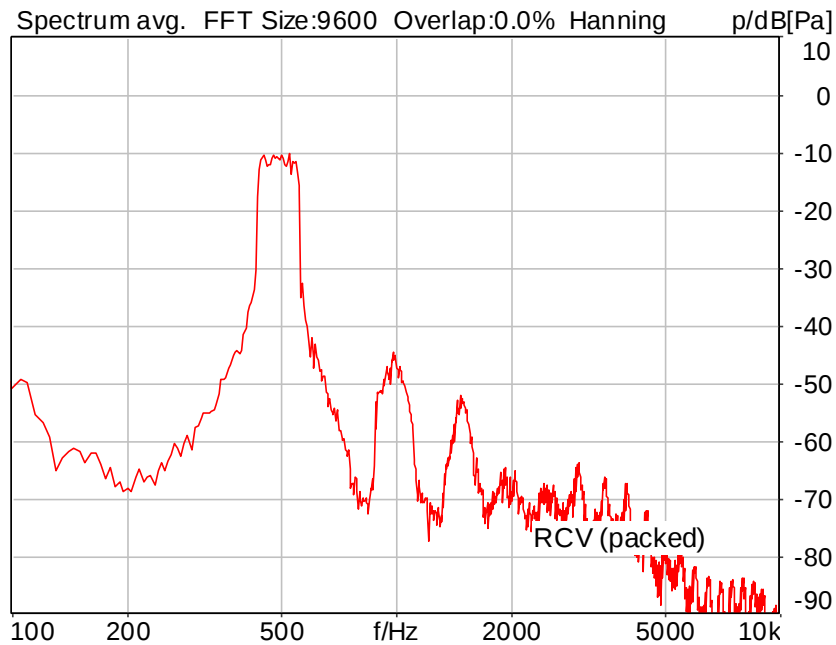
2024/1/24 下午 01:37 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 31.94 dB (2.53%) Ok

Ok

2024/1/24 下午 01:38 ACQUA 5.1.200

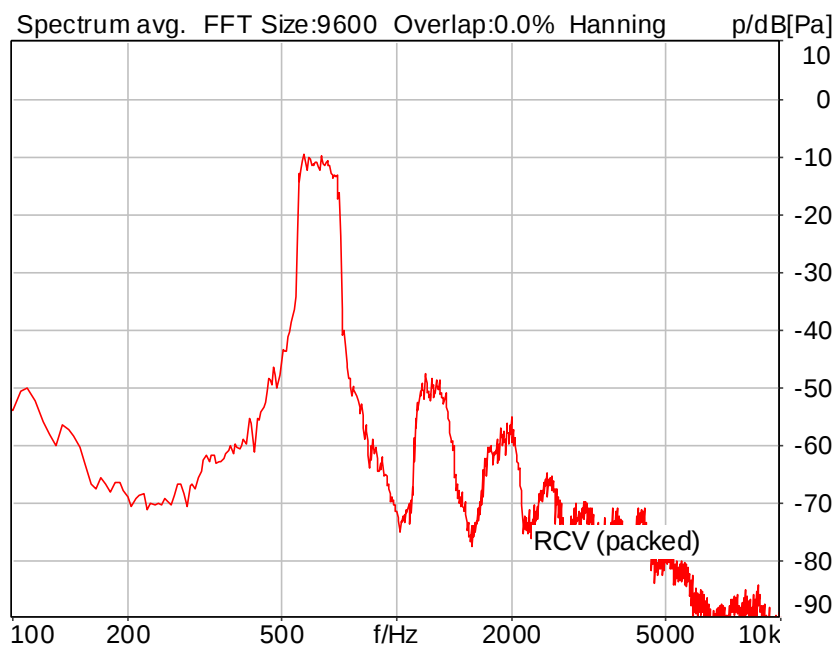
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 630 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 33.74 dB (2.06%) Ok

Ok

2024/1/24 下午 01:38 ACQUA 5.1.200

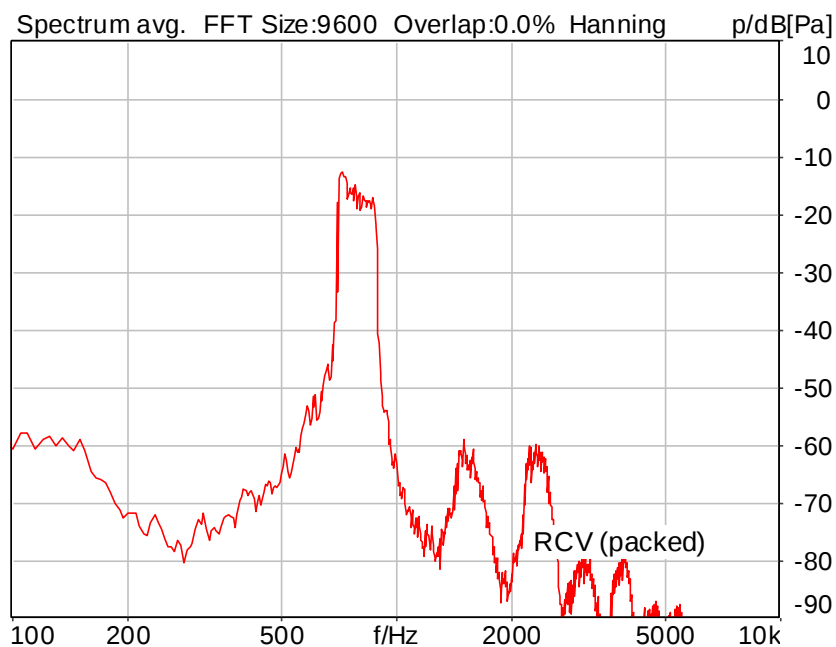
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 800 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 35.81 dB (1.62%) Ok

Ok

2024/1/24 下午 01:39 ACQUA 5.1.200

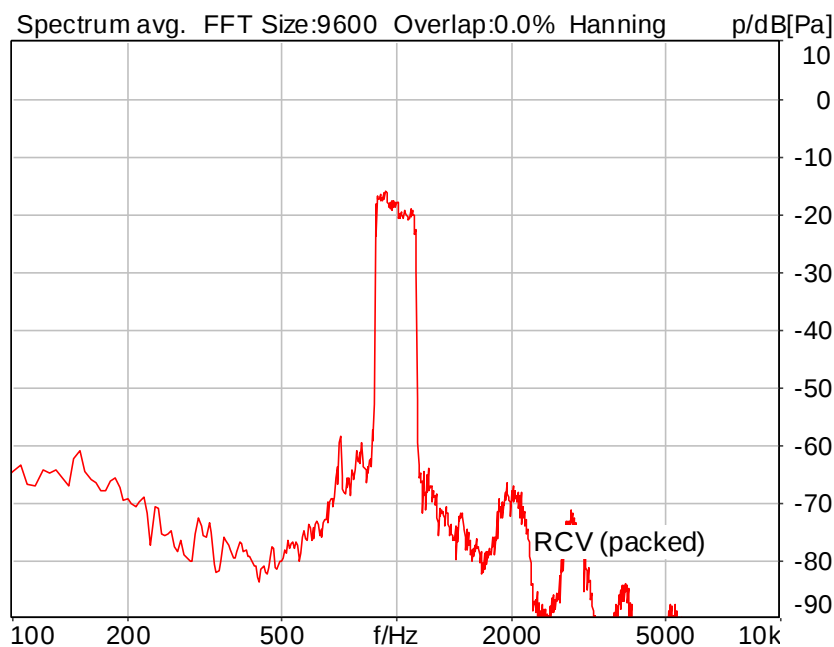
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 1000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 42.62 dB (0.74%) Ok

Ok

2024/1/24 下午 01:39 ACQUA 5.1.200

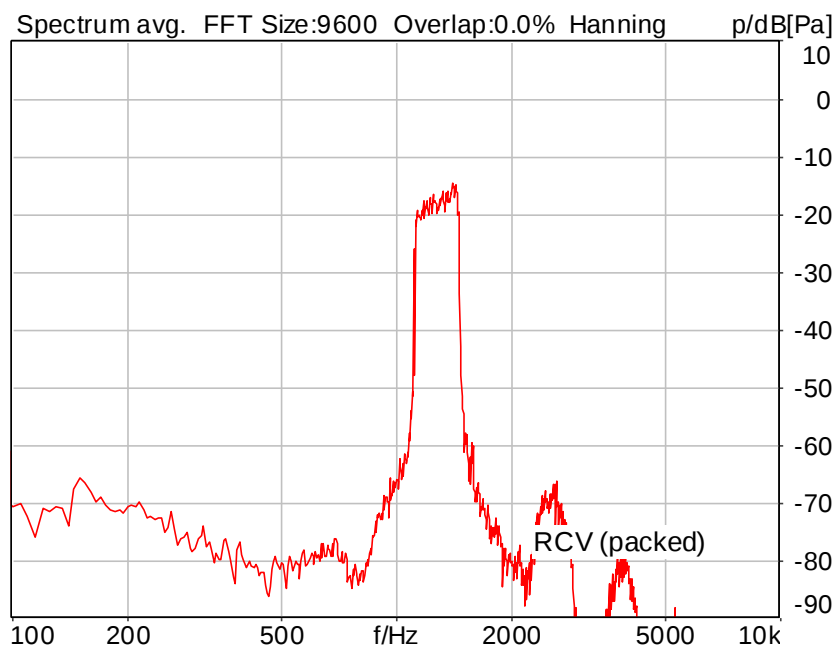
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 1250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 31.94 dB (2.53%) Ok

Ok

2024/1/24 下午 01:40 ACQUA 5.1.200

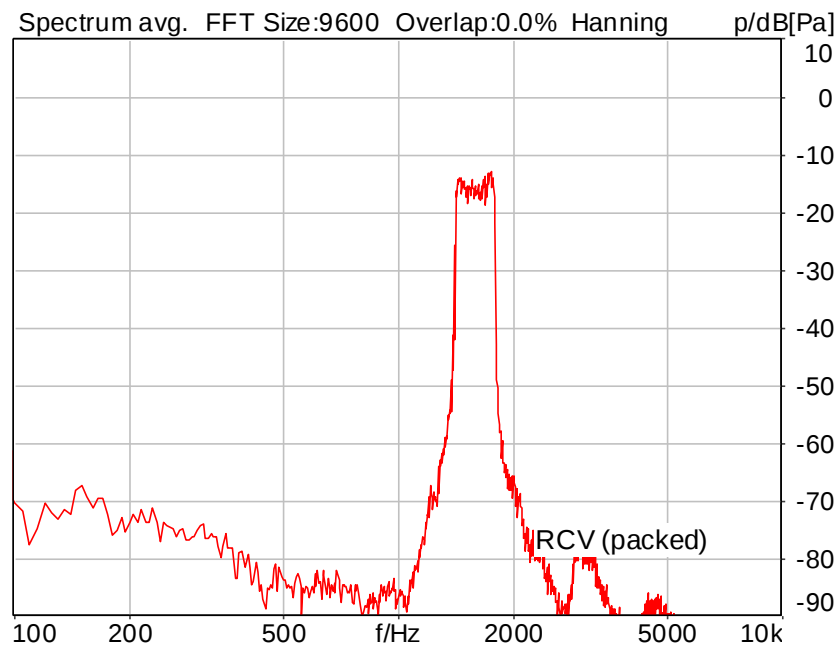
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 1600 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 44.80 dB (0.58%) Ok

Ok

2024/1/24 下午 01:40 ACQUA 5.1.200

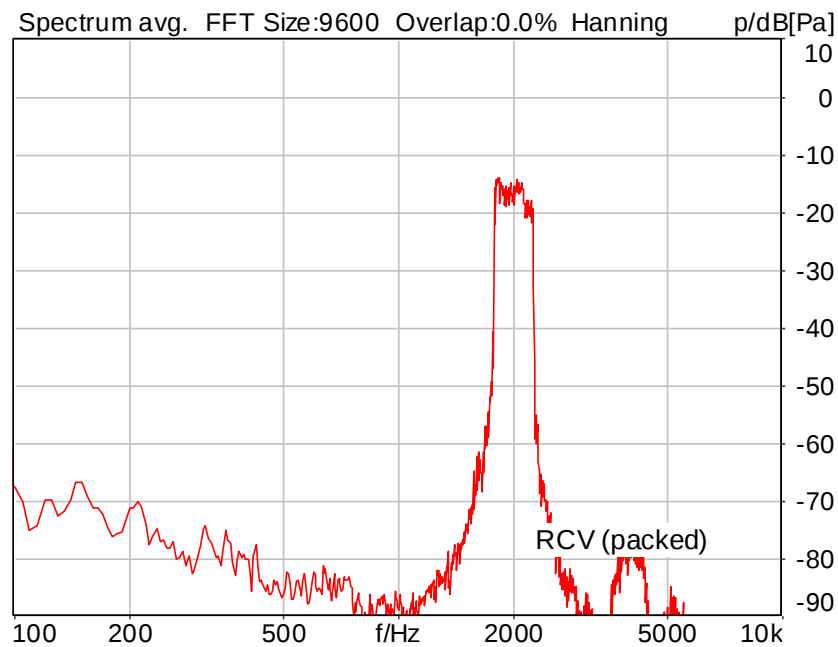
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 2000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 43.66 dB (0.66%) Ok

Ok

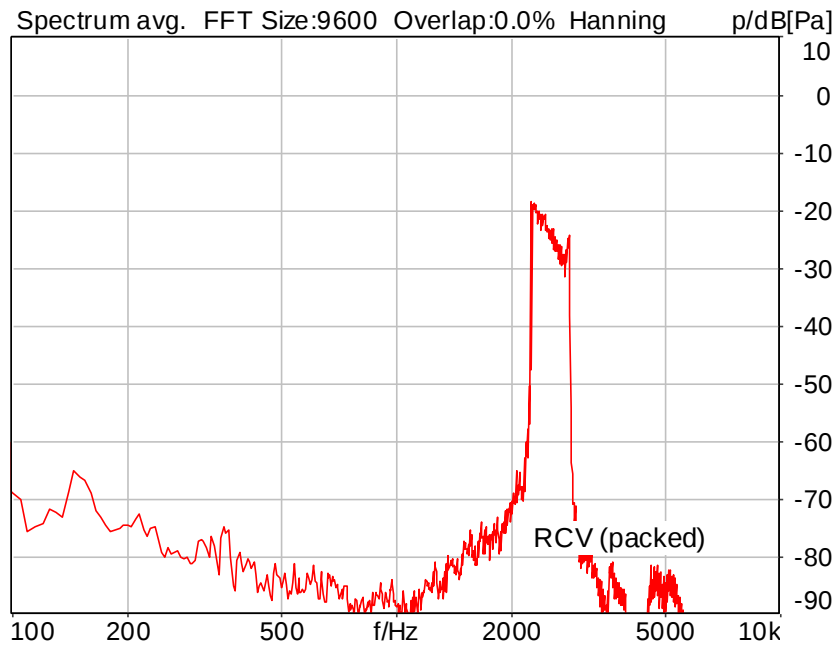
2024/1/24 下午 01:41 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 2500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 44.03 dB (0.63%) Ok

Ok

2024/1/24 下午 01:41 ACQUA 5.1.200

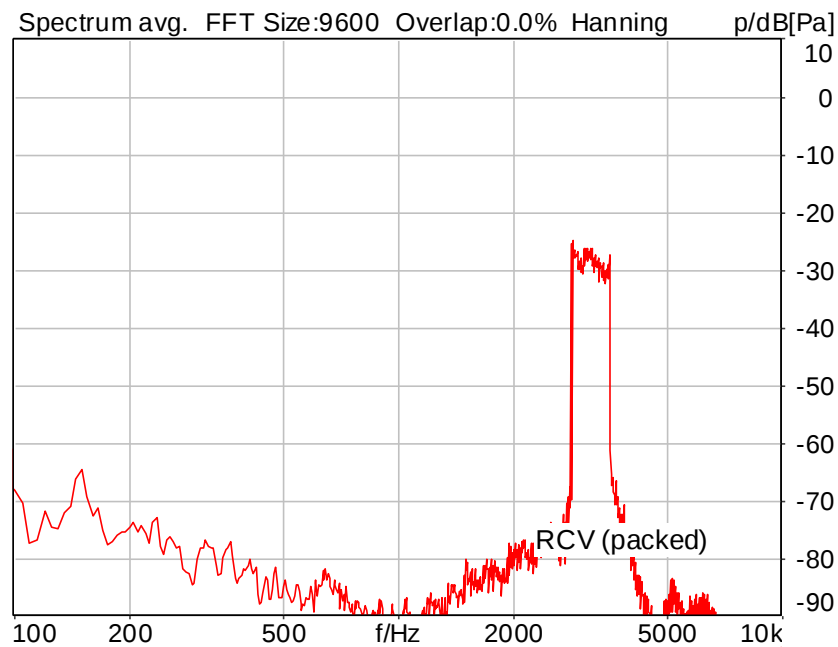
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 3150 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 41.68 dB (0.82%) Ok

Ok

2024/1/24 下午 01:42 ACQUA 5.1.200

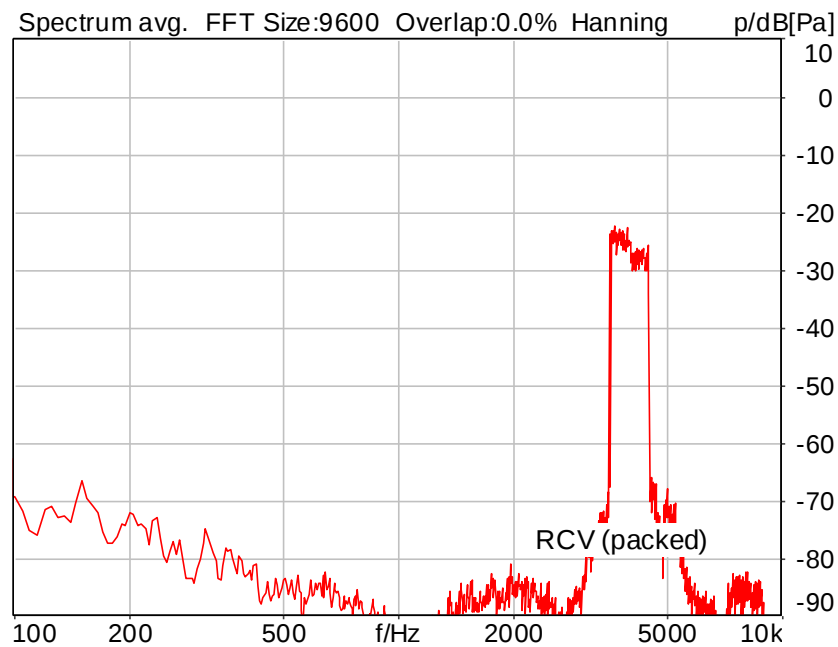
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 4000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 43.99 dB (0.63%) Ok

Ok

2024/1/24 下午 01:42 ACQUA 5.1.200

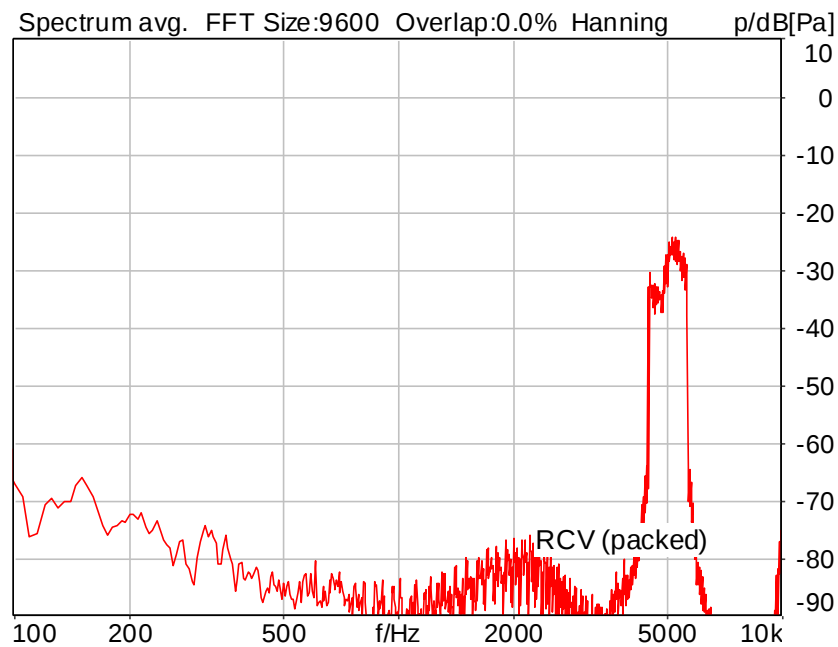
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 5000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 42.90 dB (0.72%) Ok

Ok

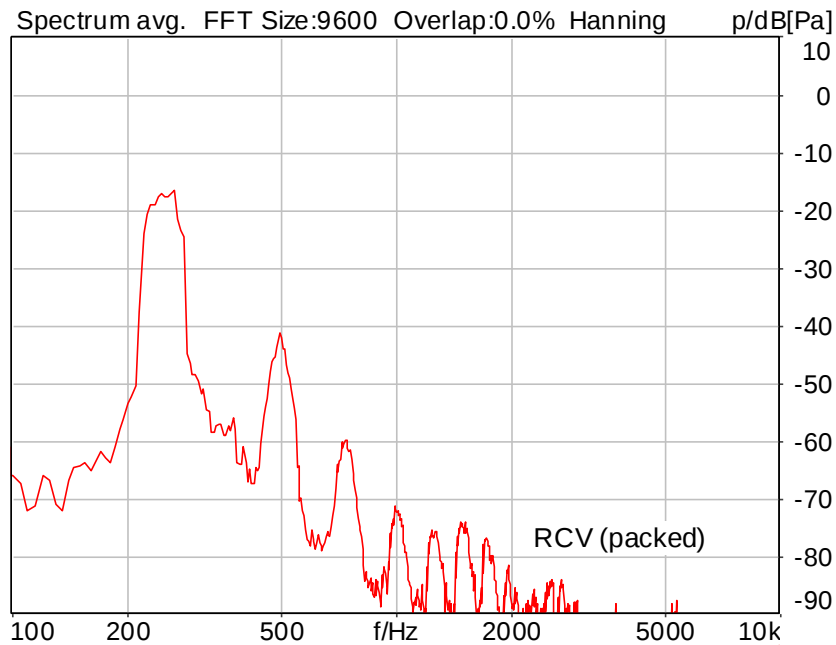
2024/1/24 下午 01:43 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 28.48 dB (3.77%) Ok

Ok

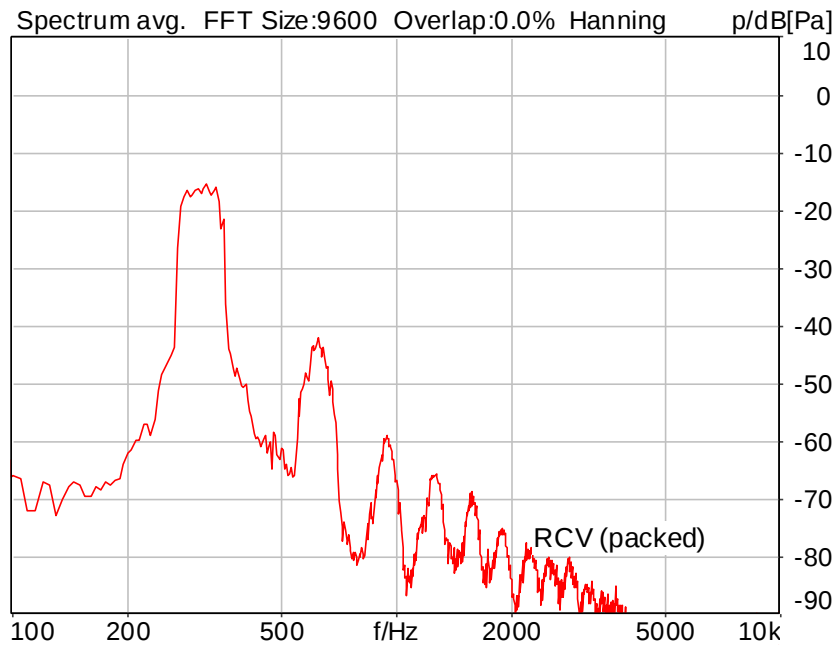
2024/1/24 下午 01:45 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 315 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 28.44 dB (3.79%) Ok

Ok

2024/1/24 下午 01:46 ACQUA 5.1.200

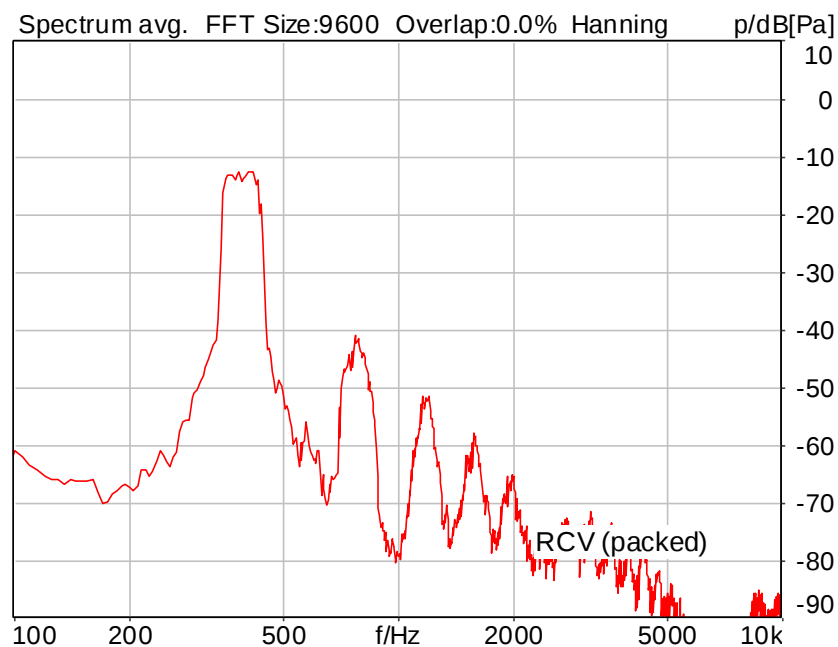
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 400 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 28.93 dB (3.58%) Ok

Ok

2024/1/24 下午 01:46 ACQUA 5.1.200

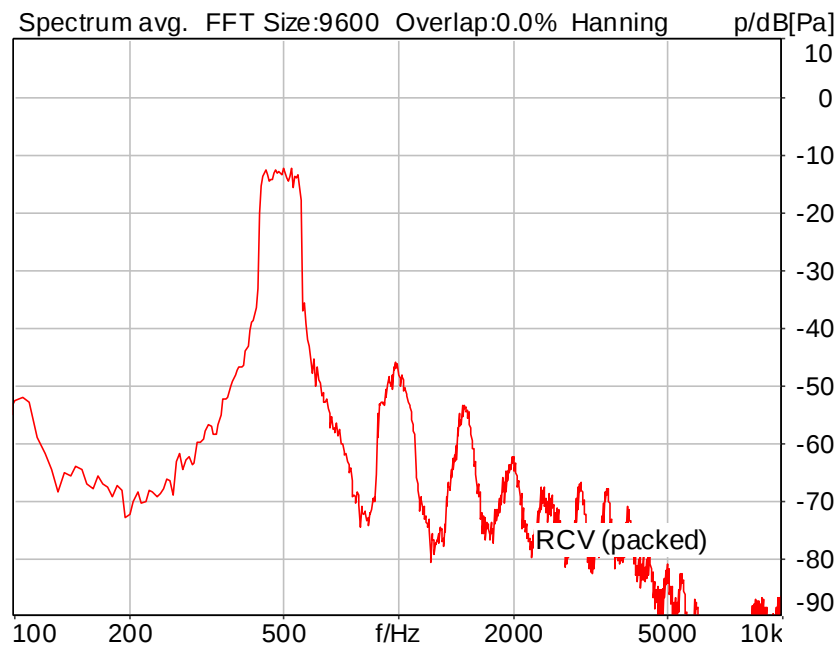
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 31.40 dB (2.69%) Ok

Ok

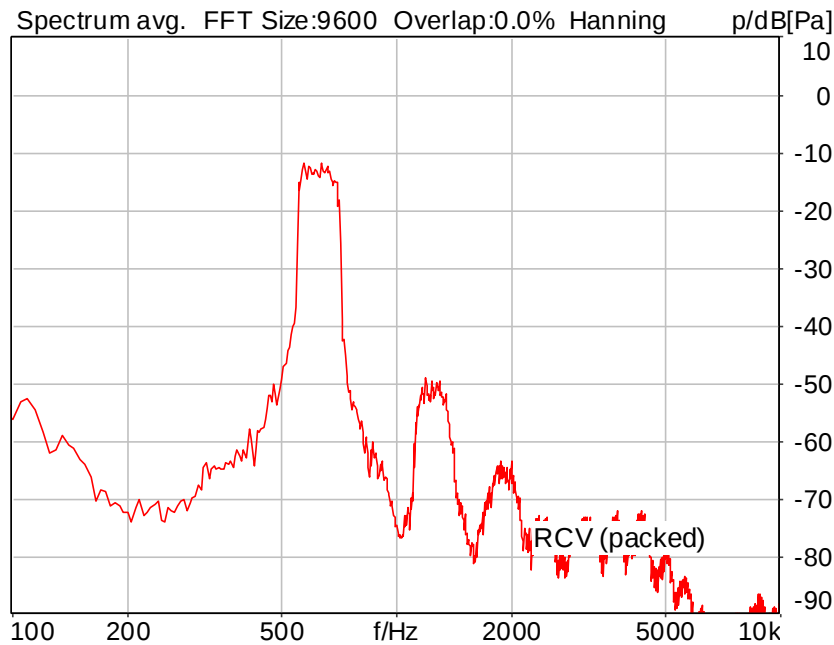
2024/1/24 下午 01:47 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 630 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 33.85 dB (2.03%) Ok

Ok

2024/1/24 下午 01:47 ACQUA 5.1.200

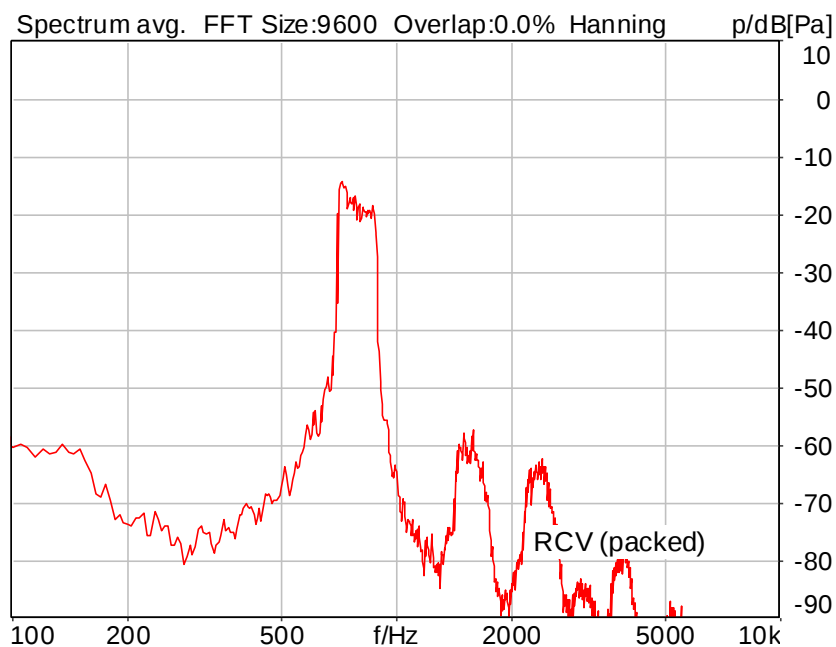
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 800 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 35.59 dB (1.66%) Ok

Ok

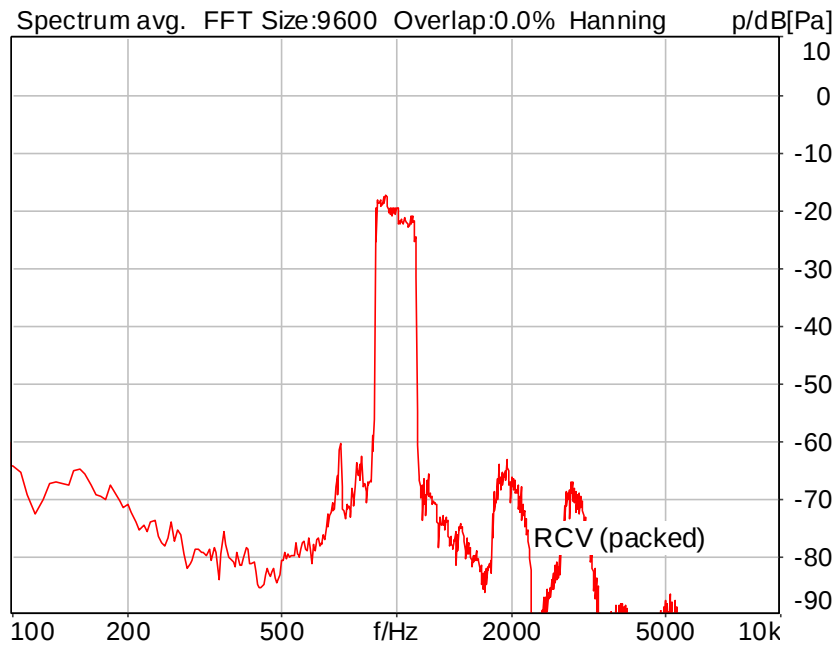
2024/1/24 下午 01:48 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 1000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 40.37 dB (0.96%) Ok

Ok

2024/1/24 下午 01:48 ACQUA 5.1.200

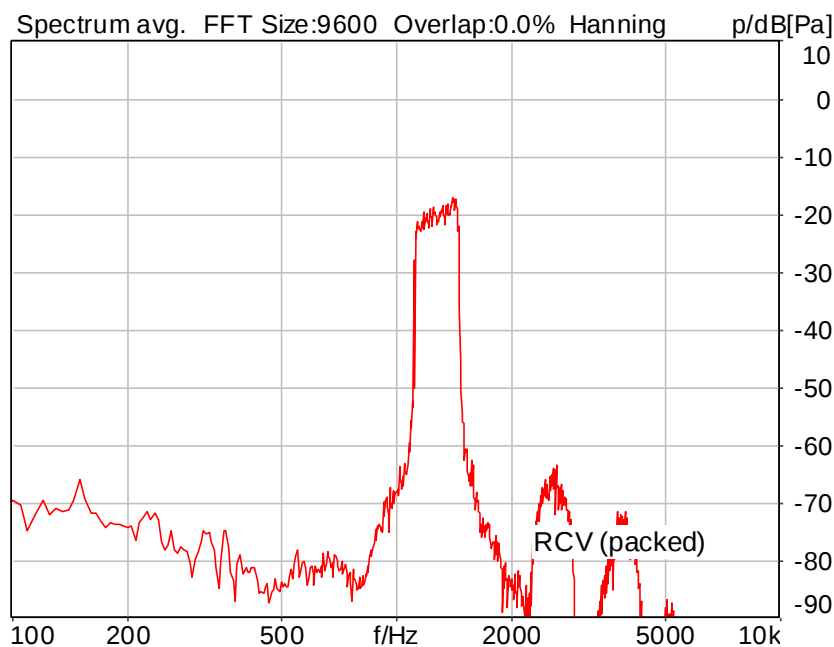
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 1250 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 32.07 dB (2.49%) Ok

Ok

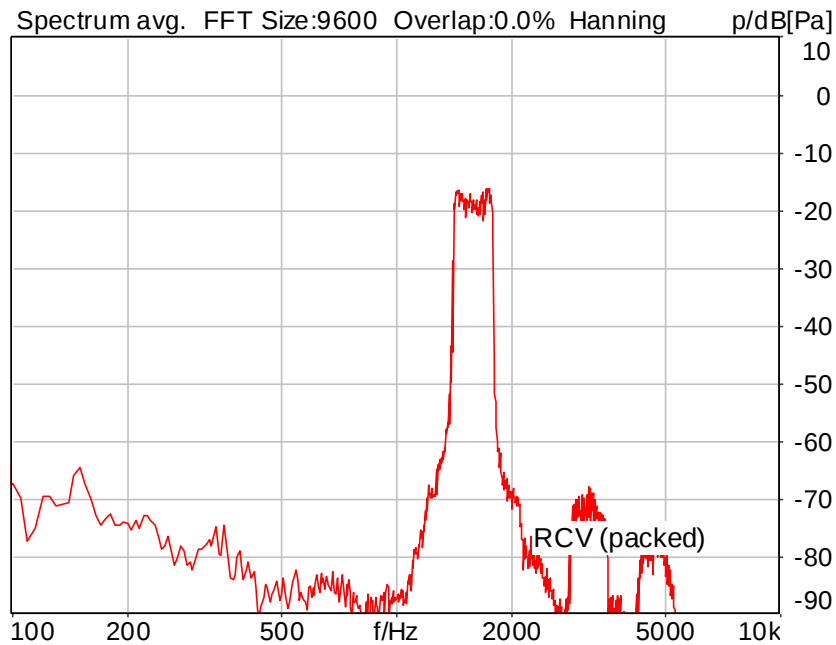
2024/1/24 下午 01:49 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 1600 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 43.06 dB (0.70%) Ok

Ok

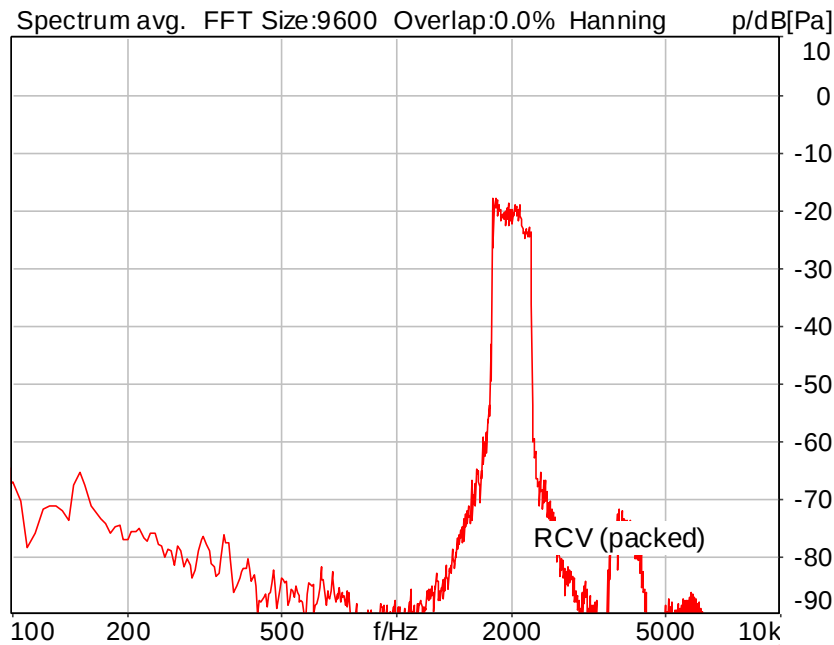
2024/1/24 下午 01:49 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 2000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 42.01 dB (0.79%) Ok

Ok

2024/1/24 下午 01:49 ACQUA 5.1.200

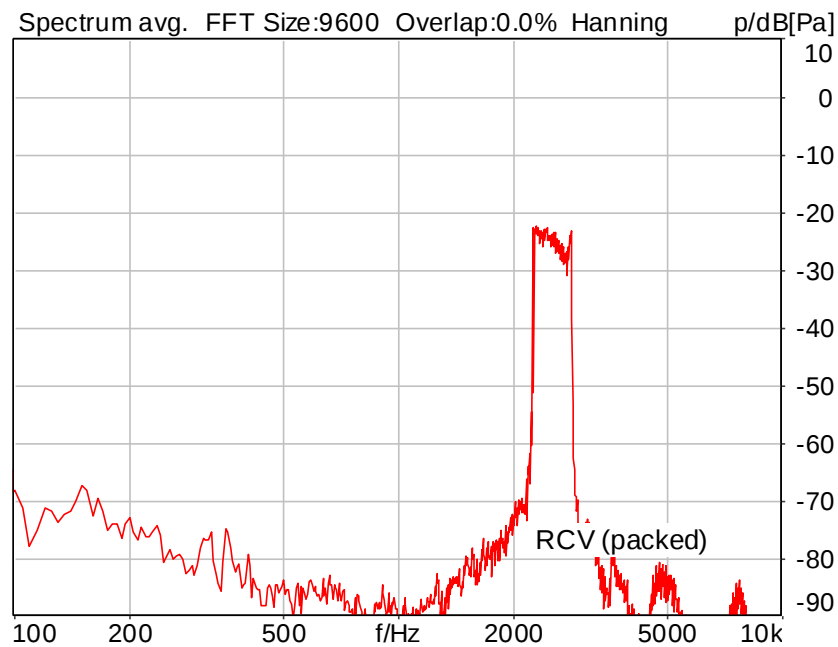
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 2500 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 43.76 dB (0.65%) Ok

Ok

2024/1/24 下午 01:50 ACQUA 5.1.200

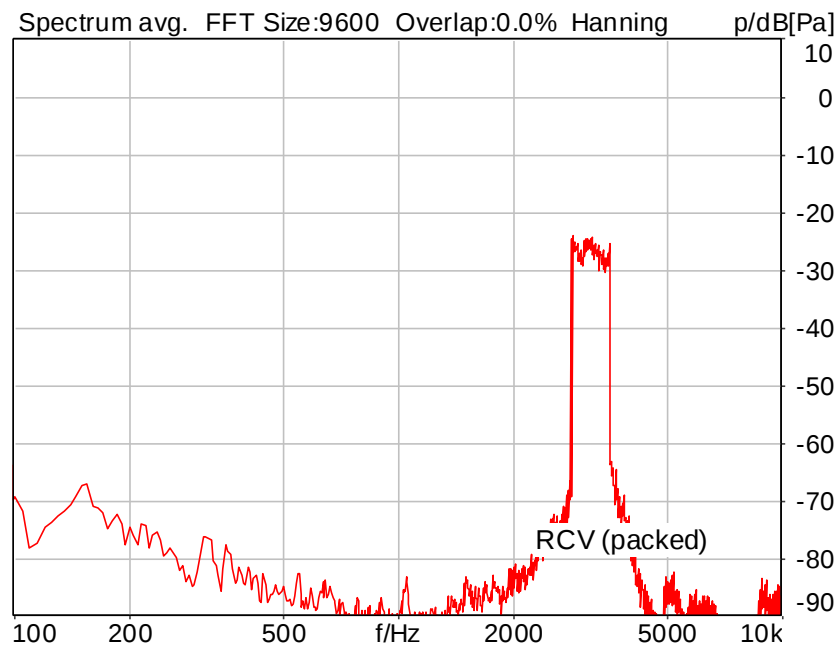
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 3150 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 42.43 dB (0.76%) Ok

Ok

2024/1/24 下午 01:50 ACQUA 5.1.200

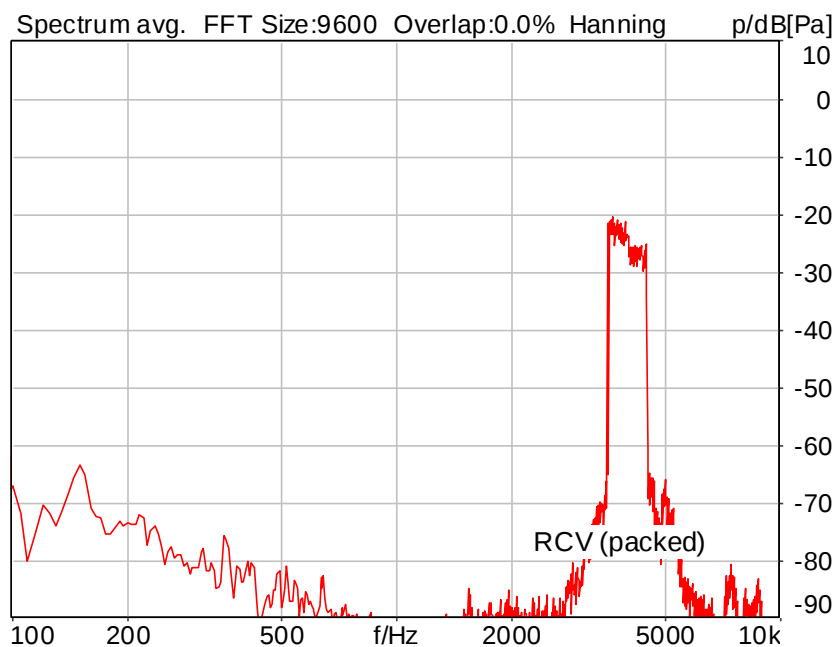
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 4000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 44.34 dB (0.61%) Ok

Ok

2024/1/24 下午 01:51 ACQUA 5.1.200

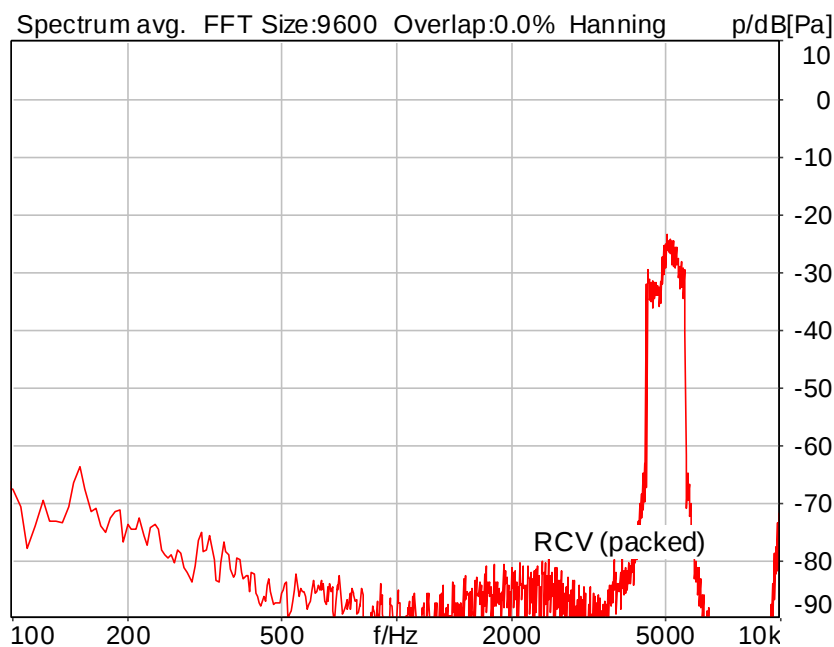
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 5000 Hz WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 43.18 dB (0.69%) Ok

Ok

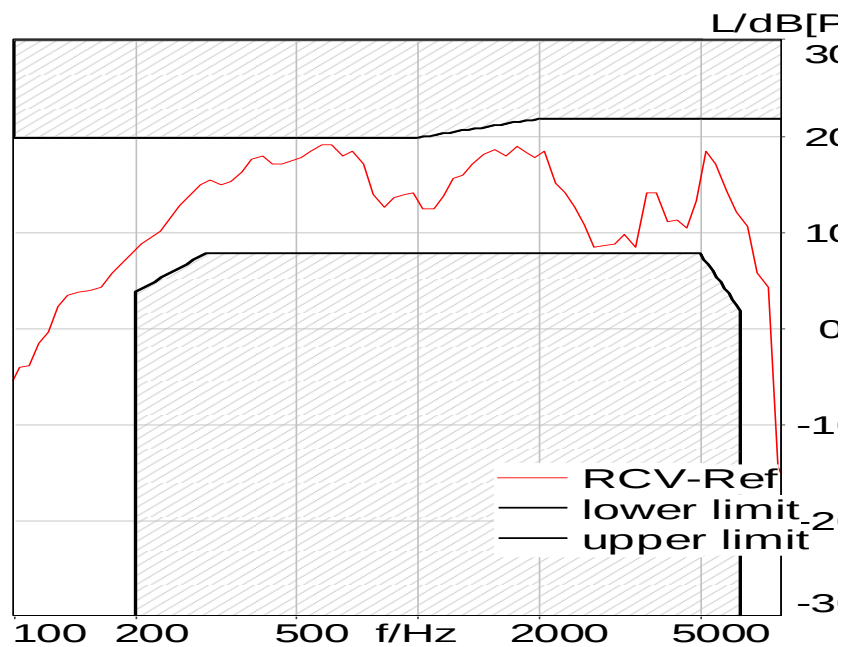
2024/1/24 下午 01:51 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.3 Frequency Response 8N FF

TIA-5050 (2018-01) \ Measurements \ Wideband



Absolute minimal distance

0.60 dB at 576.7 Hz Ok

Ok

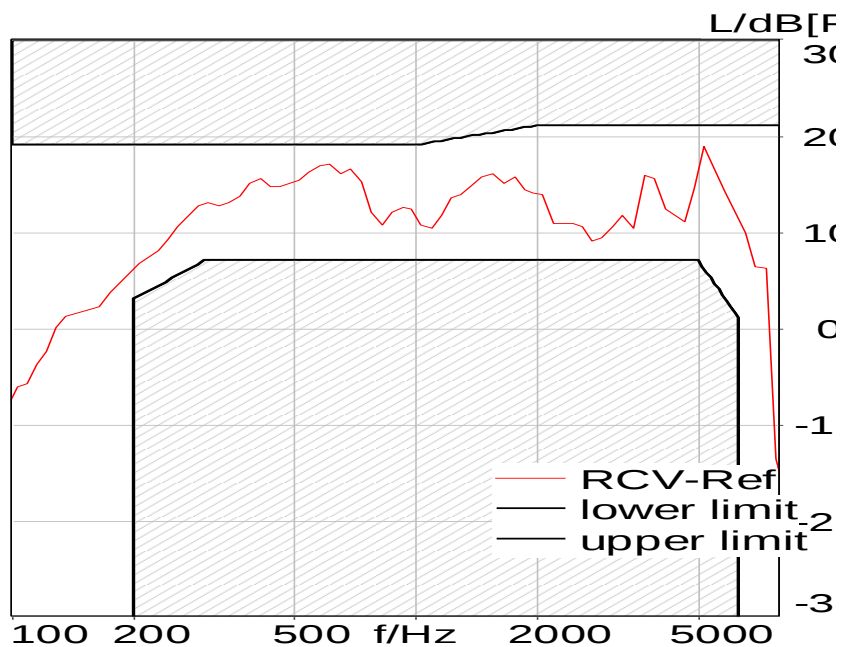
2024/1/24 下午 01:43 ACQUA 5.1.200

### Limits

|       | lower              |
|-------|--------------------|
| Run 1 | Fit into tolerance |

### 5.3 Frequency Response 2N FF

TIA-5050 (2018-01) \ Measurements \ Wideband



Absolute minimal distance

2.00 dB at 611.7 Hz Ok

Ok

2024/1/24 下午 01:52 ACQUA 5.1.200

#### Limits

|       |                    |
|-------|--------------------|
|       | lower              |
| Run 1 | Fit into tolerance |

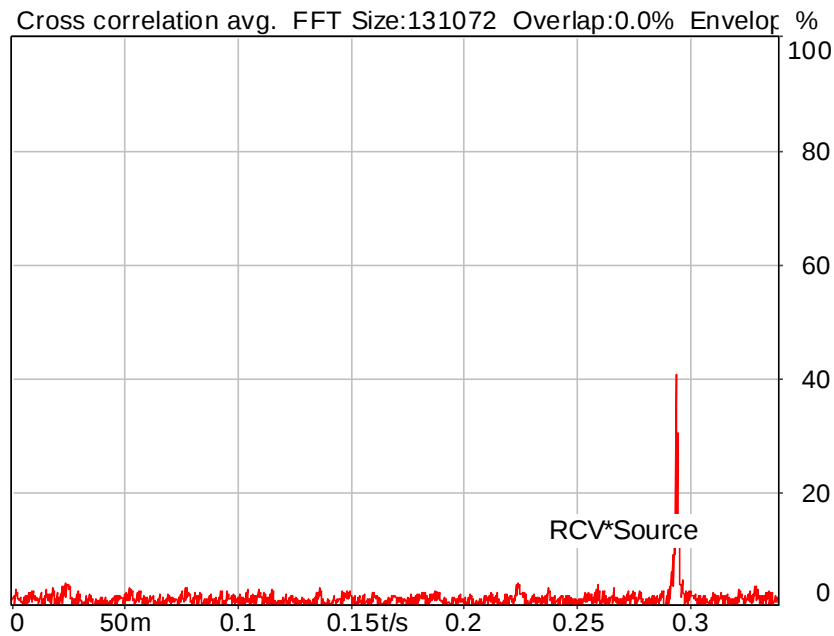
### #3 WiFi 5GHz EVS NB 24.4Kbps

| SMD                                           | Status | Single Value Description                       | Single Value |
|-----------------------------------------------|--------|------------------------------------------------|--------------|
| Overall Receive Delay NB                      | Done   | Delay (Cross) [ms]                             | 294.0        |
| 5.1a Receive Volume Control Performance 8N NB | Ok     | Speech Level [dB[SPL]]                         | 88.50        |
| 5.1b Receive Volume Control Performance 2N NB | Ok     | Speech Level [dB[SPL]]                         | 88.74        |
| 5.2 RCV Distortion and Noise - 400 Hz NB      | Ok     | Distortion (Noise) [dB], 0.0 dB                | 28.66        |
| 5.2 RCV Distortion and Noise - 500 Hz NB      | Ok     | Distortion (Noise) [dB], 0.0 dB                | 32.98        |
| 5.2 RCV Distortion and Noise - 630 Hz NB      | Ok     | Distortion (Noise) [dB], 0.0 dB                | 32.21        |
| 5.2 RCV Distortion and Noise - 800 Hz NB      | Ok     | Distortion (Noise) [dB], 0.0 dB                | 26.90        |
| 5.2 RCV Distortion and Noise - 1000 Hz NB     | Ok     | Distortion (Noise) [dB], 0.0 dB                | 30.00        |
| 5.2 RCV Distortion and Noise - 1250 Hz NB     | Ok     | Distortion (Noise) [dB], 0.0 dB                | 21.72        |
| 5.2 RCV Distortion and Noise - 1600 Hz NB     | Ok     | Distortion (Noise) [dB], 0.0 dB                | 30.24        |
| 5.2 RCV Distortion and Noise - 2000 Hz NB     | Ok     | Distortion (Noise) [dB], 0.0 dB                | 34.87        |
| 5.2 RCV Distortion and Noise - 2500 Hz NB     | Ok     | Distortion (Noise) [dB], 0.0 dB                | 36.08        |
| 5.2 RCV Distortion and Noise - 3150 Hz NB     | Ok     | Distortion (Noise) [dB], 0.0 dB                | 35.59        |
| 5.2 RCV Distortion and Noise - 400 Hz NB      | Ok     | Distortion (Noise) [dB], 0.0 dB                | 30.55        |
| 5.2 RCV Distortion and Noise - 500 Hz NB      | Ok     | Distortion (Noise) [dB], 0.0 dB                | 31.66        |
| 5.2 RCV Distortion and Noise - 630 Hz NB      | Ok     | Distortion (Noise) [dB], 0.0 dB                | 33.52        |
| 5.2 RCV Distortion and Noise - 800 Hz NB      | Ok     | Distortion (Noise) [dB], 0.0 dB                | 28.13        |
| 5.2 RCV Distortion and Noise - 1000 Hz NB     | Ok     | Distortion (Noise) [dB], 0.0 dB                | 31.30        |
| 5.2 RCV Distortion and Noise - 1250 Hz NB     | Ok     | Distortion (Noise) [dB], 0.0 dB                | 20.76        |
| 5.2 RCV Distortion and Noise - 1600 Hz NB     | Ok     | Distortion (Noise) [dB], 0.0 dB                | 33.92        |
| 5.2 RCV Distortion and Noise - 2000 Hz NB     | Ok     | Distortion (Noise) [dB], 0.0 dB                | 31.81        |
| 5.2 RCV Distortion and Noise - 2500 Hz NB     | Ok     | Distortion (Noise) [dB], 0.0 dB                | 39.22        |
| 5.2 RCV Distortion and Noise - 3150 Hz NB     | Ok     | Distortion (Noise) [dB], 0.0 dB                | 34.43        |
| 5.3 Frequency Response 8N DF HANB             | Ok     | Min. dist. to tolerance scheme [dB], 2057.5 Hz | 0.61         |
| 5.3 Frequency Response 2N DF HANB             | Ok     | Min. dist. to tolerance scheme [dB], 3245.6 Hz | 2.63         |



## Overall Receive Delay NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ Preparation - Delay measurement

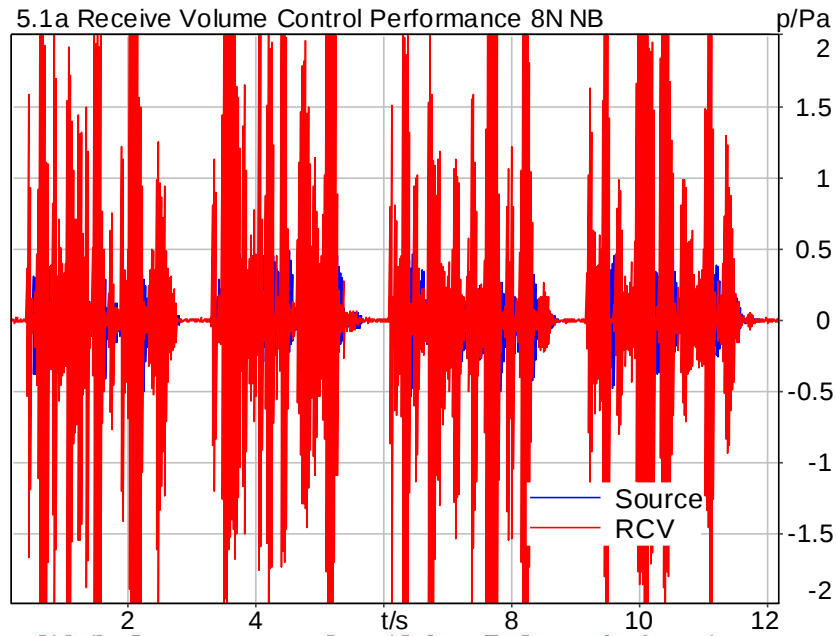


Delay (Cross): 294.0 ms

2024/2/5 下午 10:56 ACQUA 5.1.200

## 5.1a Receive Volume Control Performance 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 88.50 dB[SPL], Act.: 55.84% Ok

Ok

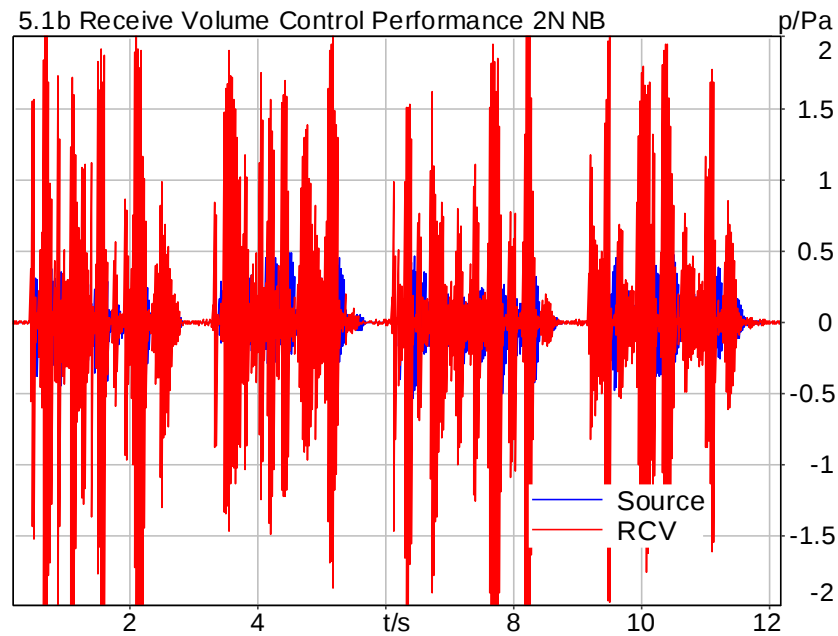
2024/1/24 上午 02:38 ACQUA 5.1.200

### Limits

|       |               |
|-------|---------------|
|       | lower         |
| Run 1 | 88.00 dB20uPa |

## 5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 88.74 dB[SPL], Act.: 27.18% Ok

Ok

2024/1/24 上午 02:46 ACQUA 5.1.200

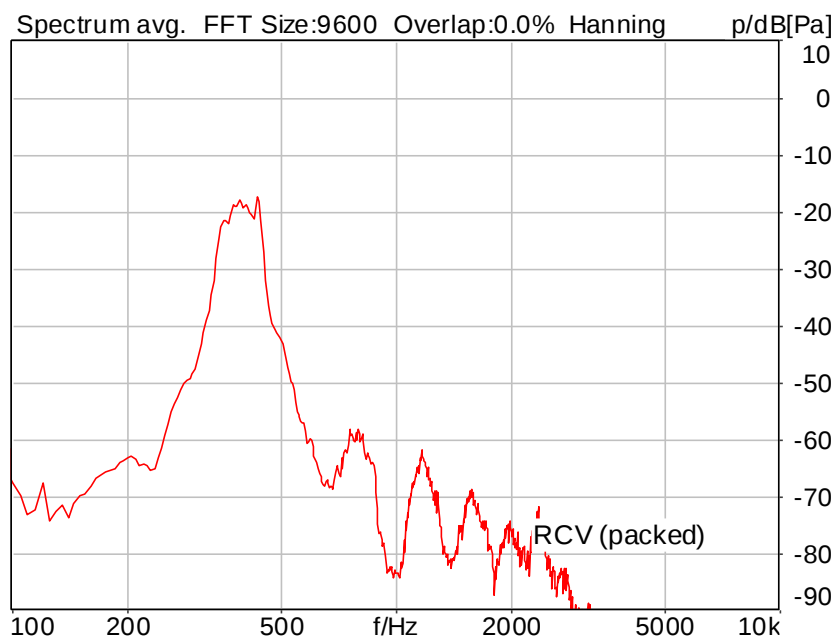
### Limits

|       |               |
|-------|---------------|
|       | lower         |
| Run 1 | 76.00 dB20uPa |



## 5.2 RCV Distortion and Noise - 400 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 28.66 dB (3.69%) Ok

Ok

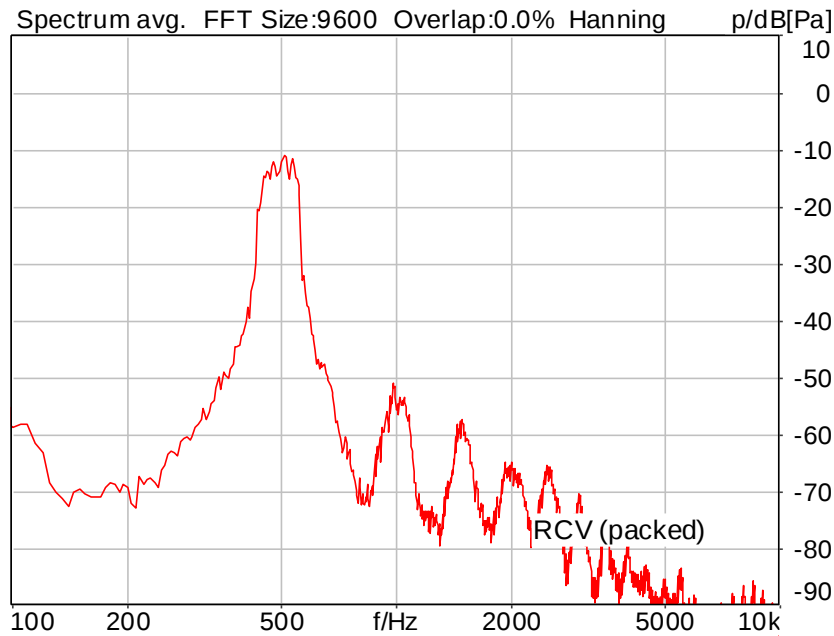
2024/1/24 上午 02:38 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 500 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 32.98 dB (2.25%) Ok

Ok

2024/1/24 上午 02:39 ACQUA 5.1.200

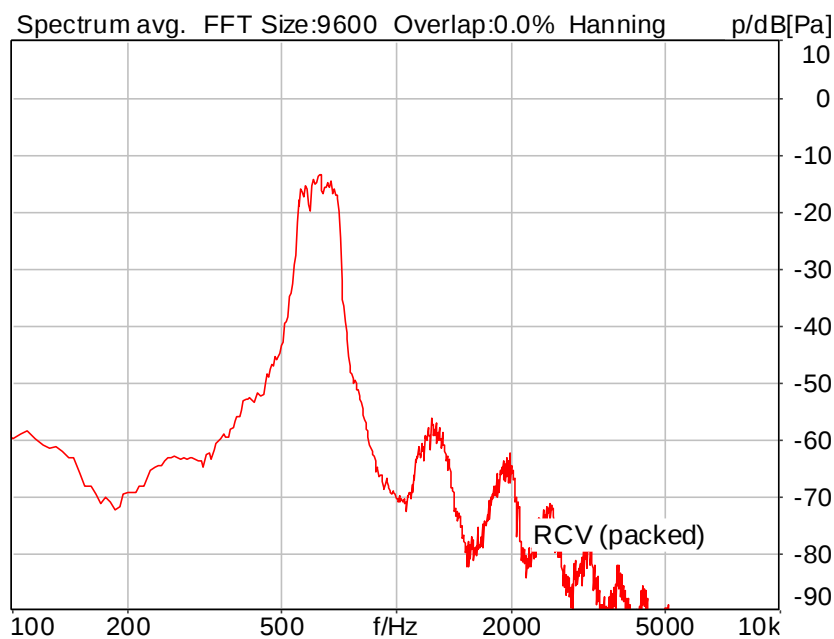
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 630 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 32.21 dB (2.45%) Ok

Ok

2024/1/24 上午 02:39 ACQUA 5.1.200

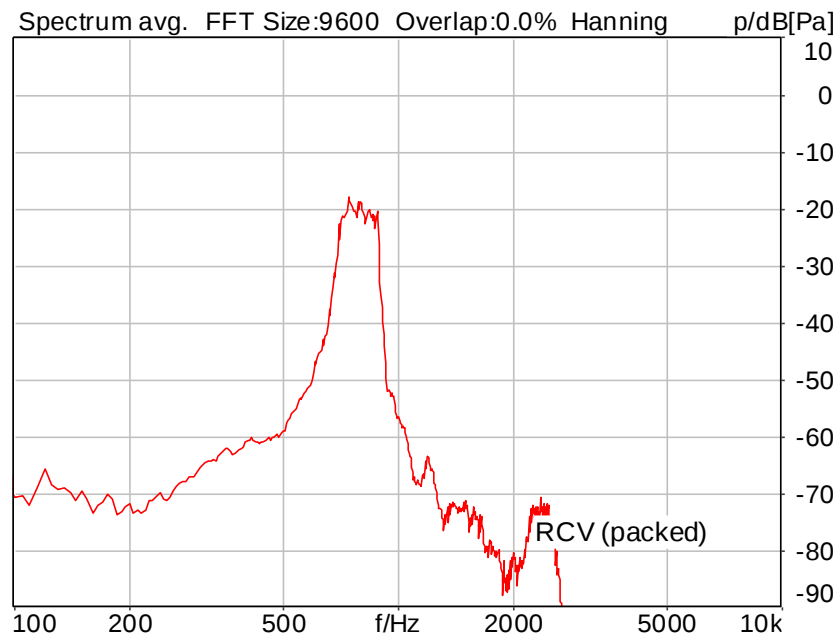
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 800 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 26.90 dB (4.52%) Ok

Ok

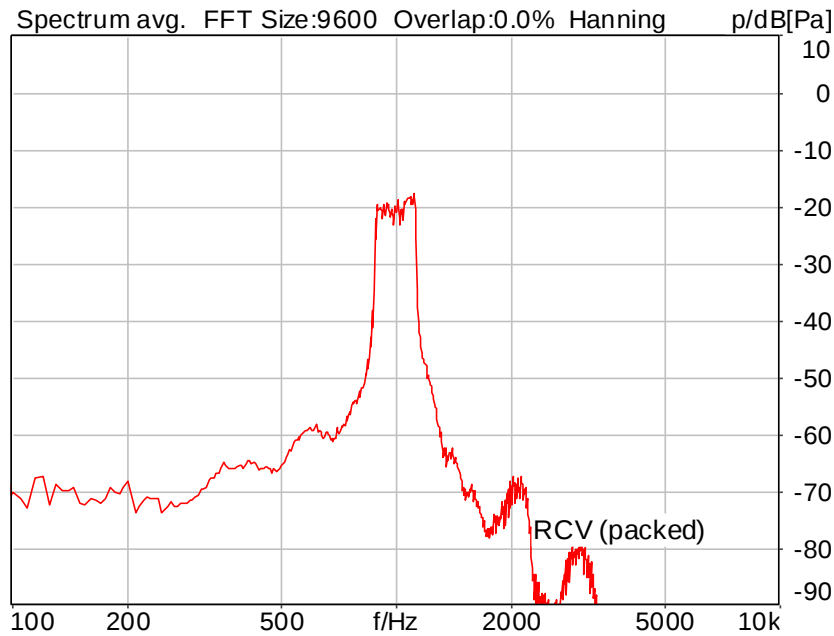
2024/1/24 上午 02:40 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 1000 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 30.00 dB (3.16%) Ok

Ok

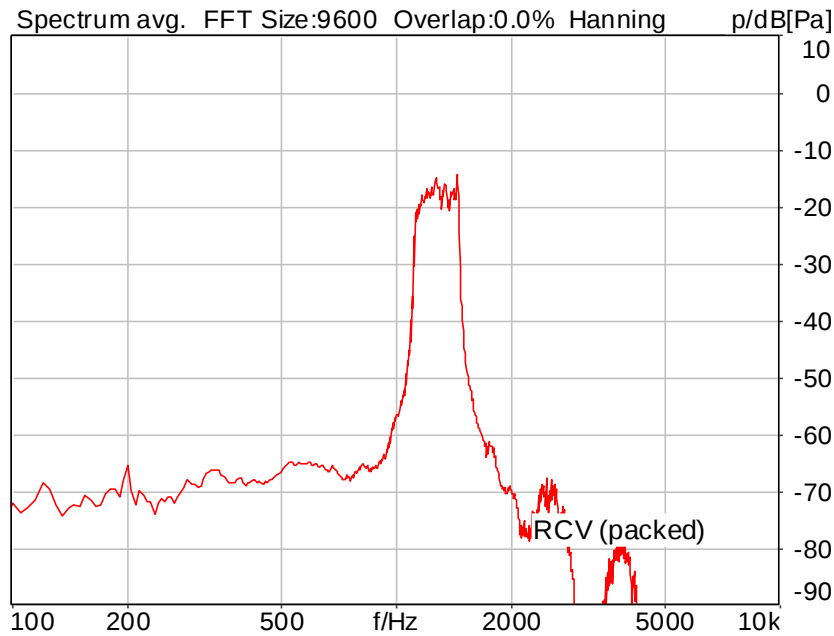
2024/1/24 上午 02:40 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 1250 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 21.72 dB (8.20%) Ok

Ok

2024/1/24 上午 02:41 ACQUA 5.1.200

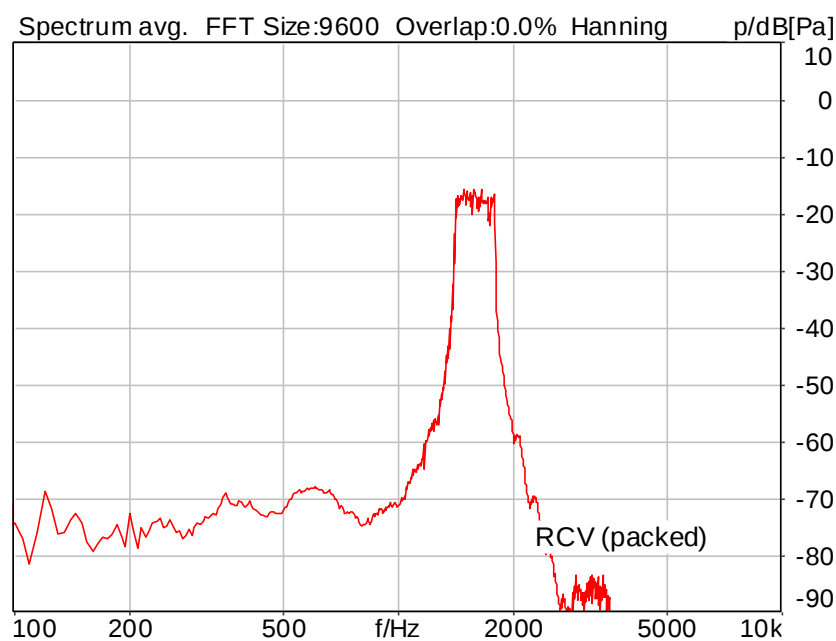
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 1600 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 30.24 dB (3.08%) Ok

Ok

2024/1/24 上午 02:41 ACQUA 5.1.200

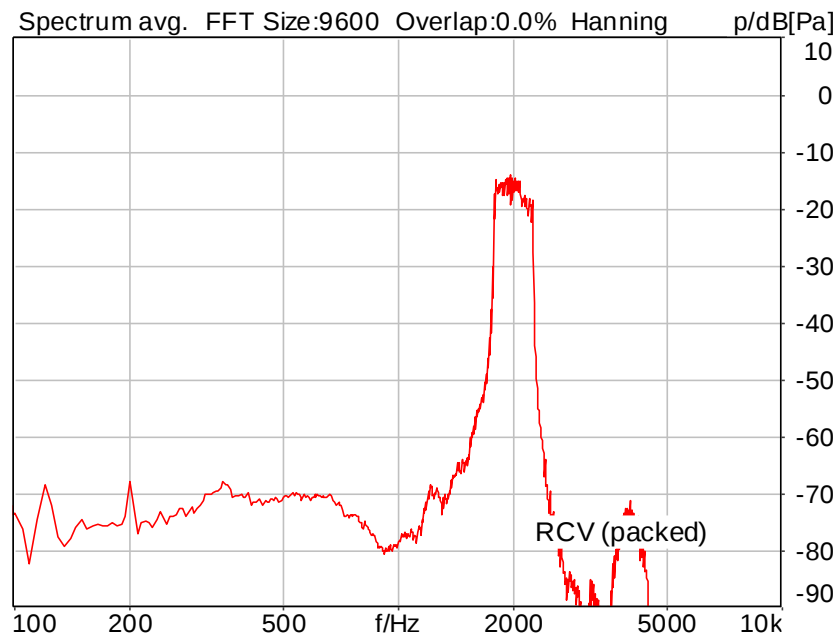
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 2000 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 34.87 dB (1.80%) Ok

Ok

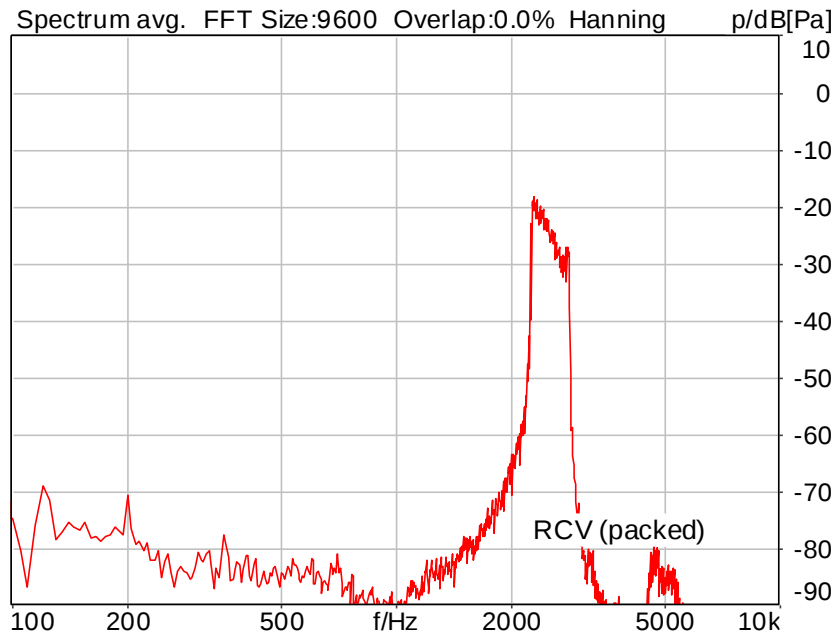
2024/1/24 上午 02:42 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 2500 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 36.08 dB (1.57%) Ok

Ok

2024/1/24 上午 02:42 ACQUA 5.1.200

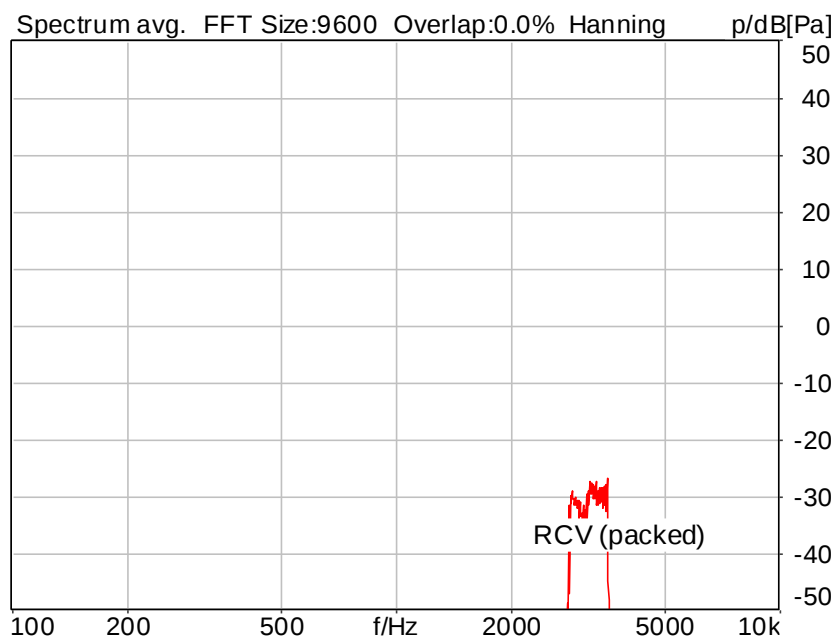
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 3150 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 8N change frequency range



Distortion (Noise) RCV (packed): 35.59 dB (1.66%) Ok

Ok

2024/1/24 上午 02:43 ACQUA 5.1.200

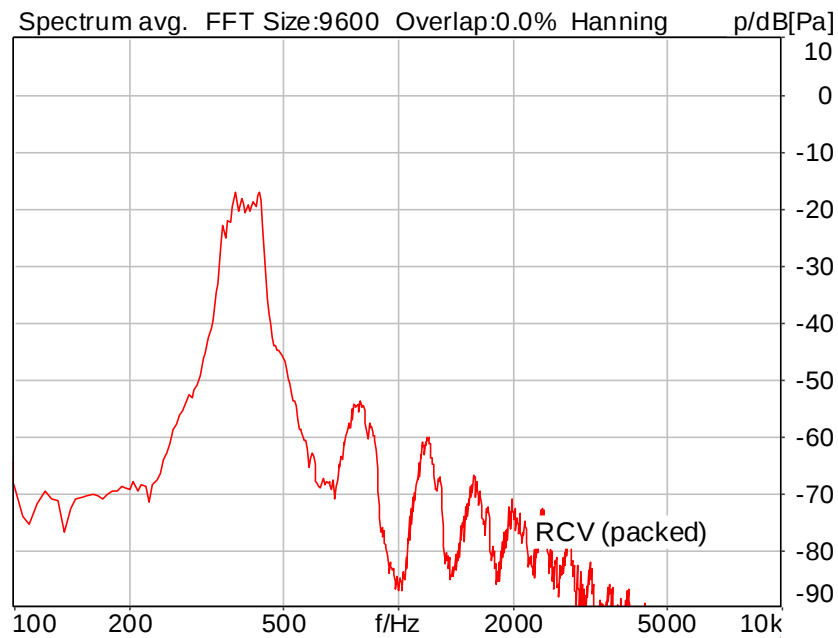
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 400 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 30.55 dB (2.97%) Ok

Ok

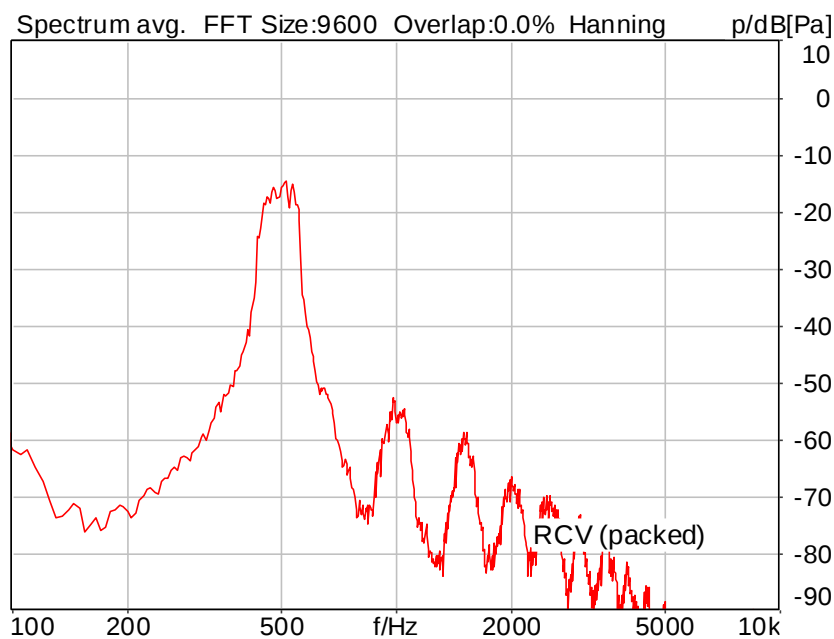
2024/1/24 上午 02:46 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 500 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 31.66 dB (2.61%) Ok

Ok

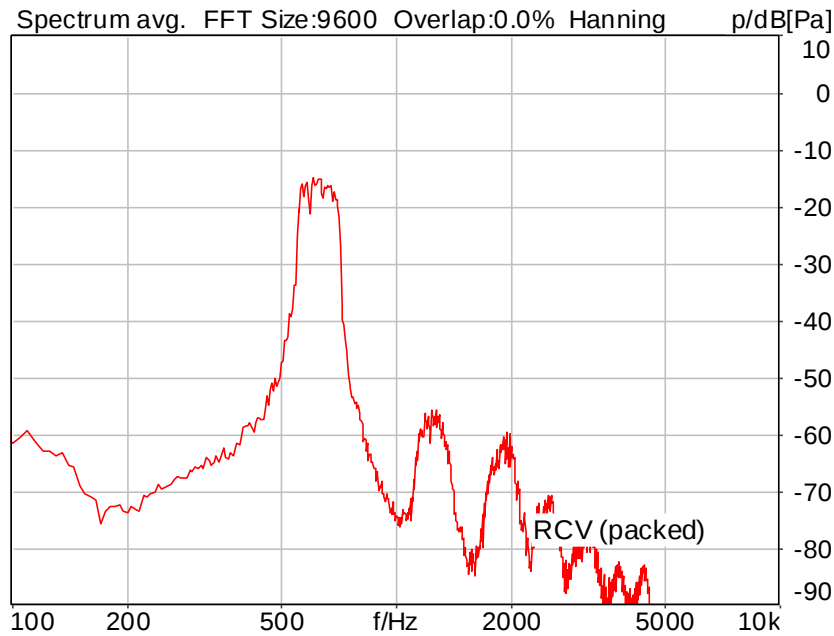
2024/1/24 上午 02:47 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 630 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 33.52 dB (2.11%) Ok

Ok

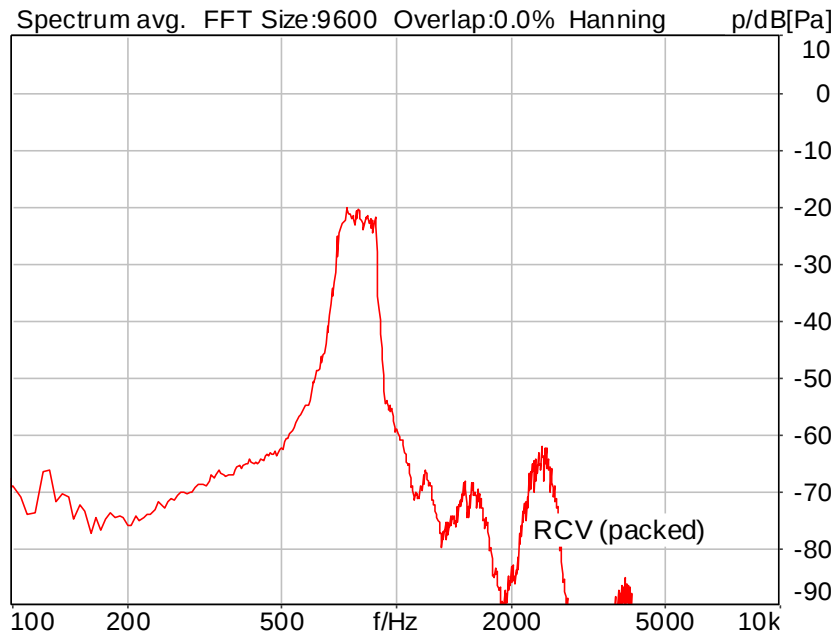
2024/1/24 上午 02:47 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 800 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 28.13 dB (3.92%) Ok

Ok

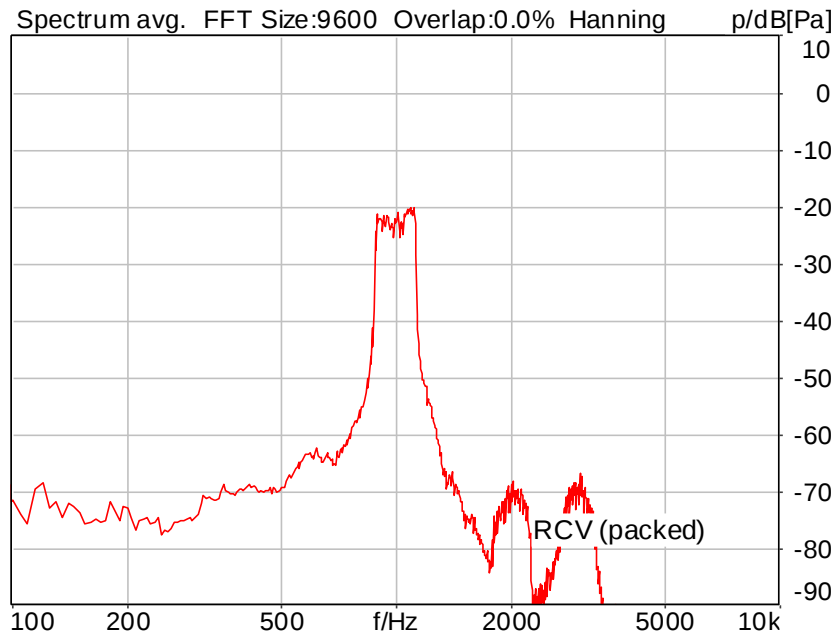
2024/1/24 上午 02:48 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 1000 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 31.30 dB (2.72%) Ok

Ok

2024/1/24 上午 02:48 ACQUA 5.1.200

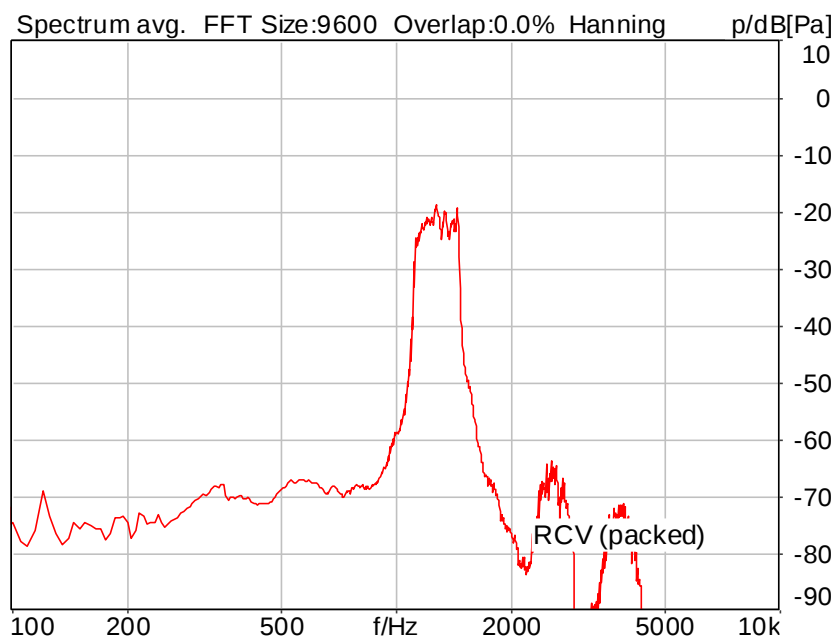
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 1250 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 20.76 dB (9.17%) Ok

Ok

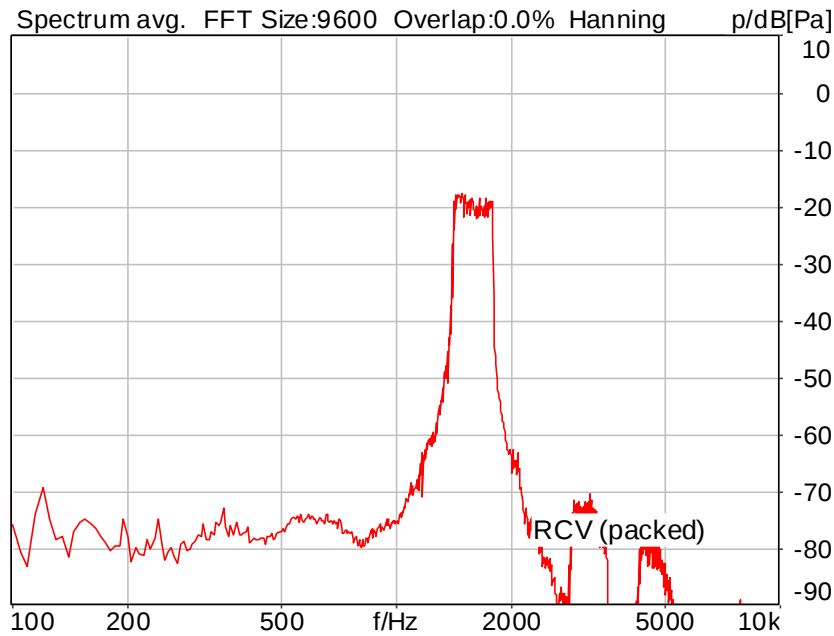
2024/1/24 上午 02:49 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 1600 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 33.92 dB (2.01%) Ok

Ok

2024/1/24 上午 02:49 ACQUA 5.1.200

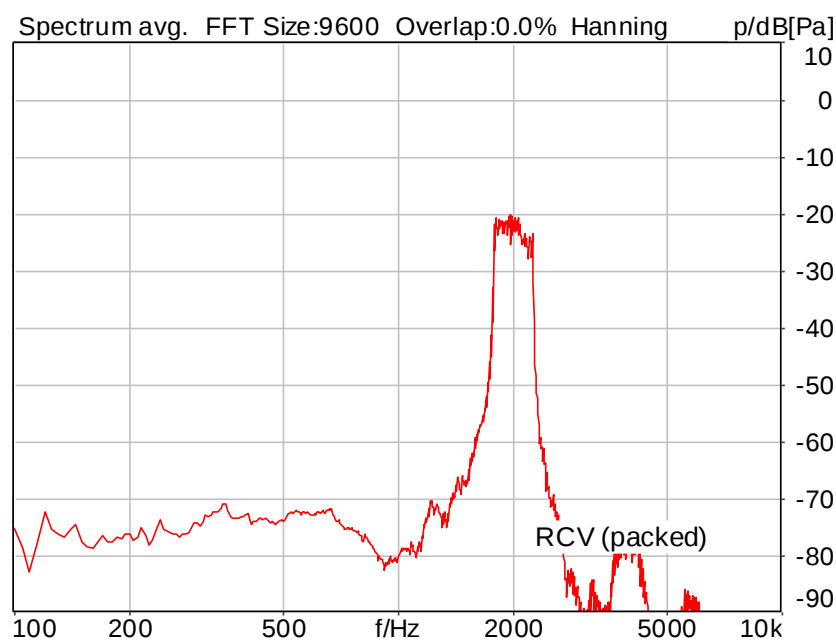
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 2000 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 31.81 dB (2.57%) Ok

Ok

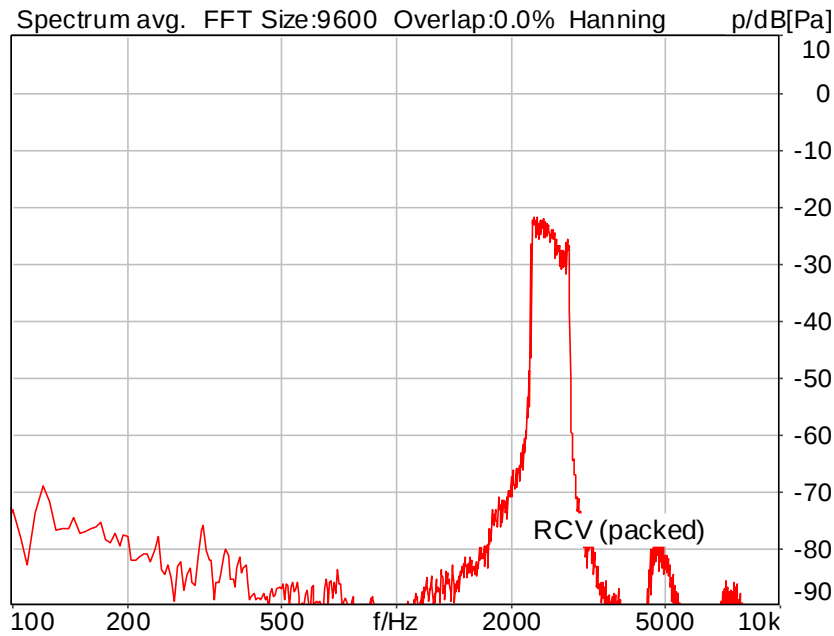
2024/1/24 上午 02:50 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

## 5.2 RCV Distortion and Noise - 2500 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 39.22 dB (1.09%) Ok

Ok

2024/1/24 上午 02:50 ACQUA 5.1.200

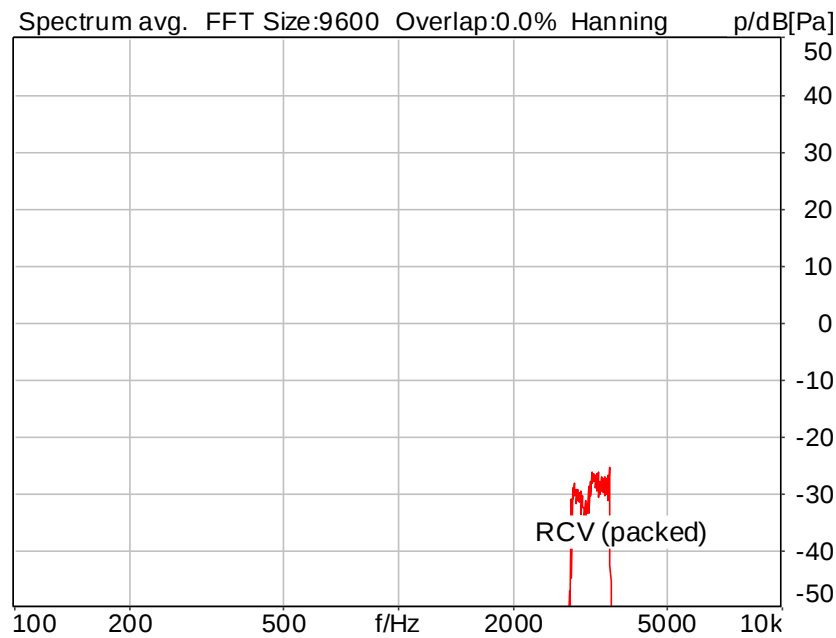
### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |



## 5.2 RCV Distortion and Noise - 3150 Hz NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ 5.2 Receive Distortion and Noise 2N change frequency range



Distortion (Noise) RCV (packed): 34.43 dB (1.90%) Ok

Ok

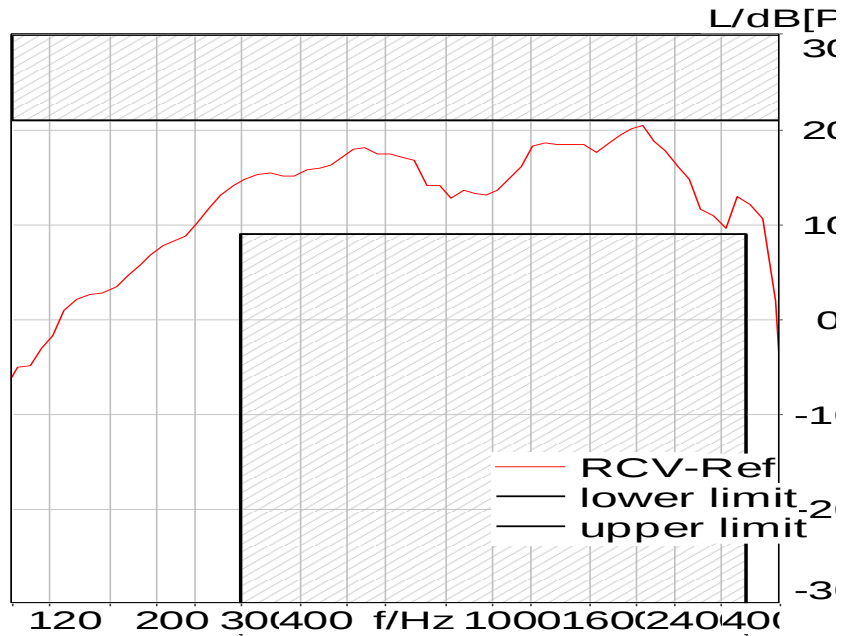
2024/1/24 上午 02:51 ACQUA 5.1.200

### Limits

|       |          |
|-------|----------|
|       | lower    |
| Run 1 | 20.00 dB |

### 5.3 Frequency Response 8N DF HANB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Absolute minimal distance

0.61 dB at 2057.5 Hz Ok

Ok

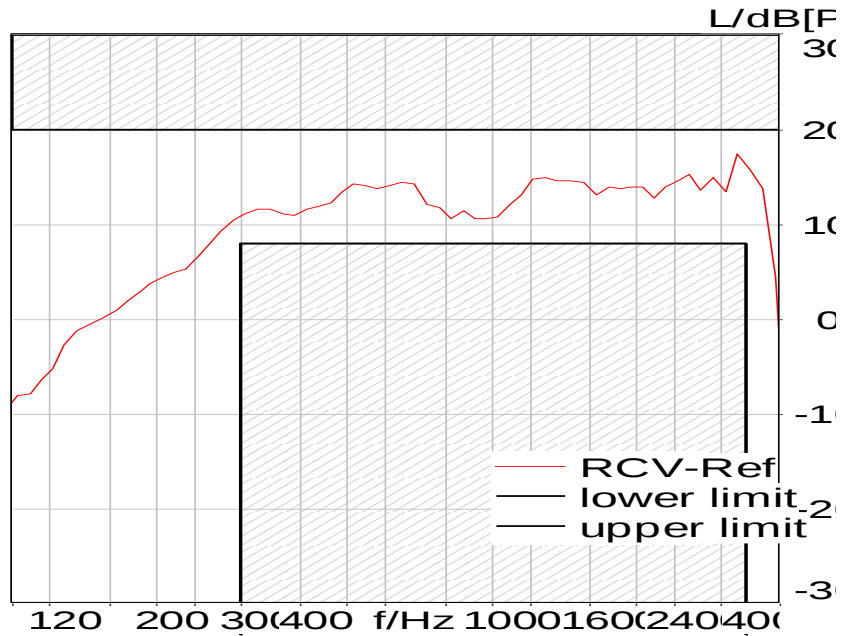
2024/2/5 下午 10:56 ACQUA 5.1.200

#### Limits

|       |                    |
|-------|--------------------|
|       | lower              |
| Run 1 | Fit into tolerance |

### 5.3 Frequency Response 2N DF HANB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Absolute minimal distance

2.63 dB at 3245.6 Hz Ok

Ok

2024/2/5 下午 10:57 ACQUA 5.1.200

#### Limits

|       |                    |
|-------|--------------------|
|       | lower              |
| Run 1 | Fit into tolerance |



***Appendix A. Volume Control Evaluation Results***

***<Evaluation results for KDB 285076 D05 2.b>***



**#4 GSM 850 AMR NB 12.2Kbps**

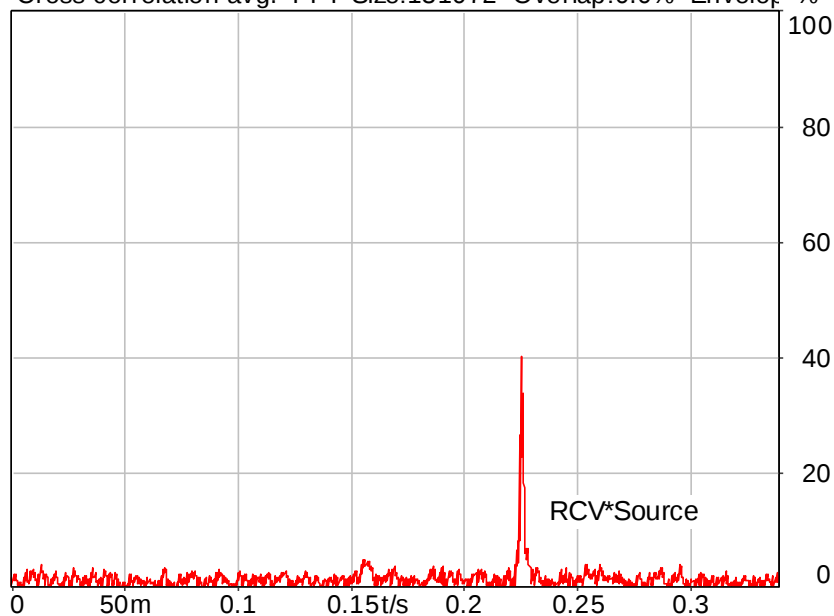
| SMD                                           | Status | Single Value Description | Single Value |
|-----------------------------------------------|--------|--------------------------|--------------|
| Overall Receive Delay NB                      | Done   | Delay (Cross) [ms]       | 225.5        |
| 5.1a Receive Volume Control Performance 8N NB | Ok     | Speech Level [dB[SPL]]   | 88.23        |
| 5.1b Receive Volume Control Performance 2N NB | Ok     | Speech Level [dB[SPL]]   | 89.21        |



## Overall Receive Delay NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ Preparation - Delay measurement

Cross correlation avg. FFT Size:131072 Overlap:0.0% Envelope %

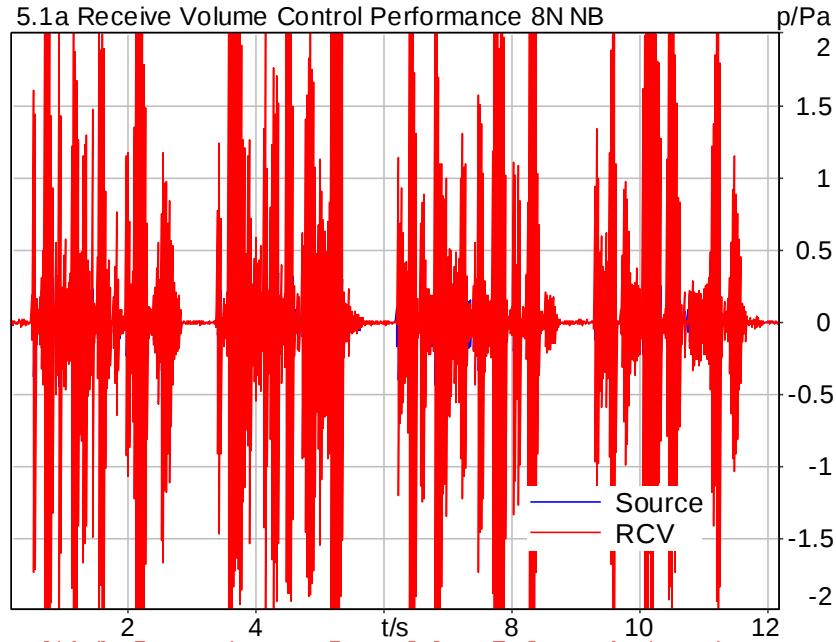


Delay (Cross): 225.5 ms

2024/1/21 上午 04:00 ACQUA 5.1.200

## 5.1a Receive Volume Control Performance 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 88.23 dB[SPL], Act.: 57.28% Ok

Ok

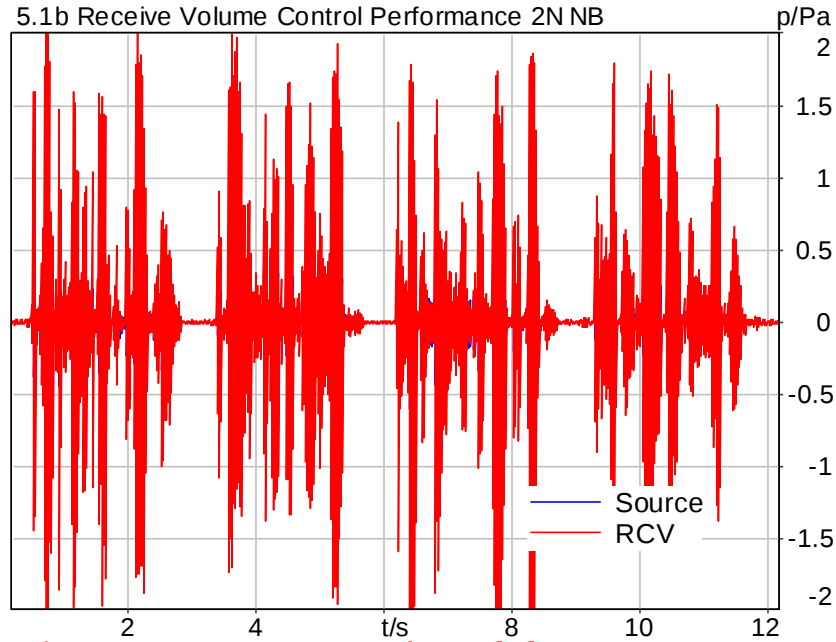
2024/1/21 上午 04:00 ACQUA 5.1.200

### Limits

|       |               |
|-------|---------------|
|       | lower         |
| Run 1 | 88.00 dB20uPa |

## 5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 89.21 dB[SPL], Act.: 21.52% Ok

Ok

2024/1/21 上午 04:01 ACQUA 5.1.200

### Limits

|       |               |
|-------|---------------|
|       | lower         |
| Run 1 | 76.00 dB20uPa |



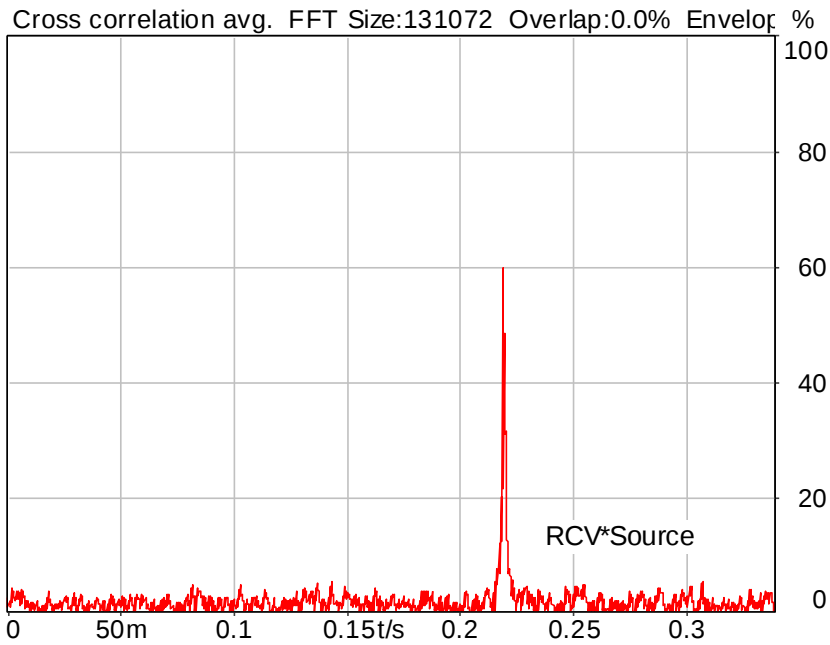
**#5 WCDMA II AMR NB 12.2Kbps**

| SMD                                           | Status | Single Value Description | Single Value |
|-----------------------------------------------|--------|--------------------------|--------------|
| Overall Receive Delay NB                      | Done   | Delay (Cross) [ms]       | 218.9        |
| 5.1a Receive Volume Control Performance 8N NB | Ok     | Speech Level [dB[SPL]]   | 88.79        |
| 5.1b Receive Volume Control Performance 2N NB | Ok     | Speech Level [dB[SPL]]   | 88.50        |



## Overall Receive Delay NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ Preparation - Delay measurement

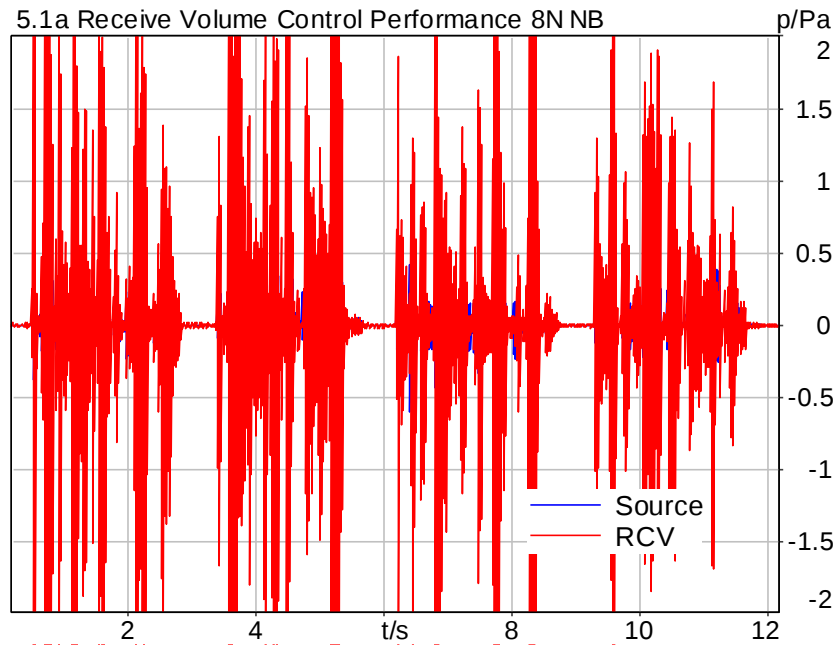


Delay (Cross): 218.9 ms

2024/1/21 上午 05:04 ACQUA 5.1.200

## 5.1a Receive Volume Control Performance 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 88.79 dB[SPL], Act.: 45.11% Ok

Ok

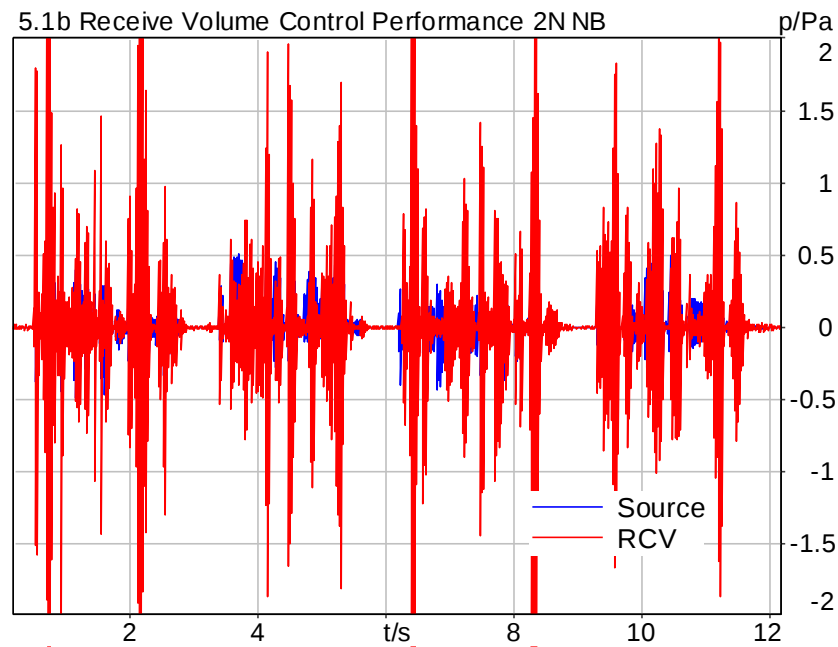
2024/1/21 上午 05:05 ACQUA 5.1.200

### Limits

|       |               |
|-------|---------------|
|       | lower         |
| Run 1 | 88.00 dB20uPa |

## 5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 88.50 dB[SPL], Act.: 19.01% Ok

Ok

2024/1/21 上午 05:08 ACQUA 5.1.200

### Limits

|       |               |
|-------|---------------|
|       | lower         |
| Run 1 | 76.00 dB20uPa |



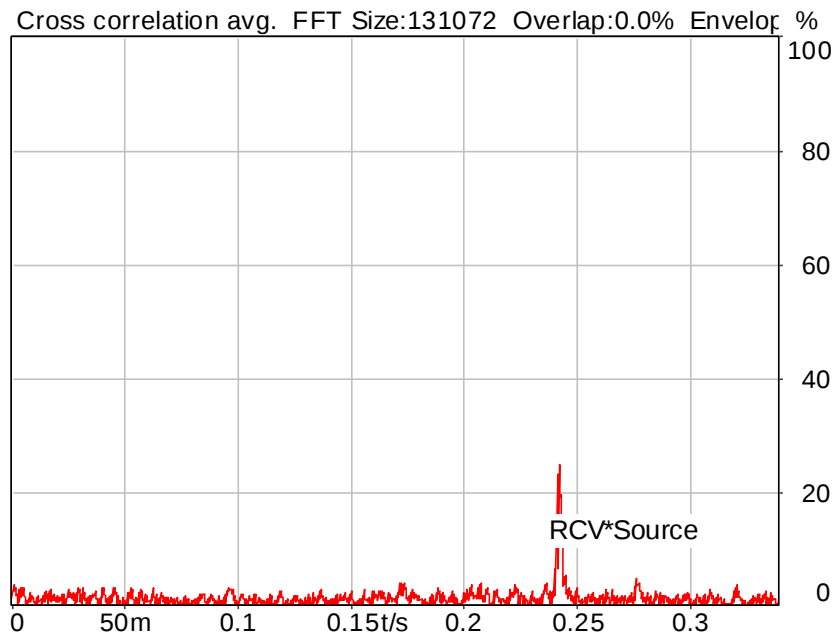
**#6 LTE B7 AMR NB 4.75Kbps**

| SMD                                           | Status | Single Value Description | Single Value |
|-----------------------------------------------|--------|--------------------------|--------------|
| Overall Receive Delay NB                      | Done   | Delay (Cross) [ms]       | 241.9        |
| 5.1a Receive Volume Control Performance 8N NB | Ok     | Speech Level [dB[SPL]]   | 88.29        |
| 5.1b Receive Volume Control Performance 2N NB | Ok     | Speech Level [dB[SPL]]   | 87.31        |



## Overall Receive Delay NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ Preparation - Delay measurement

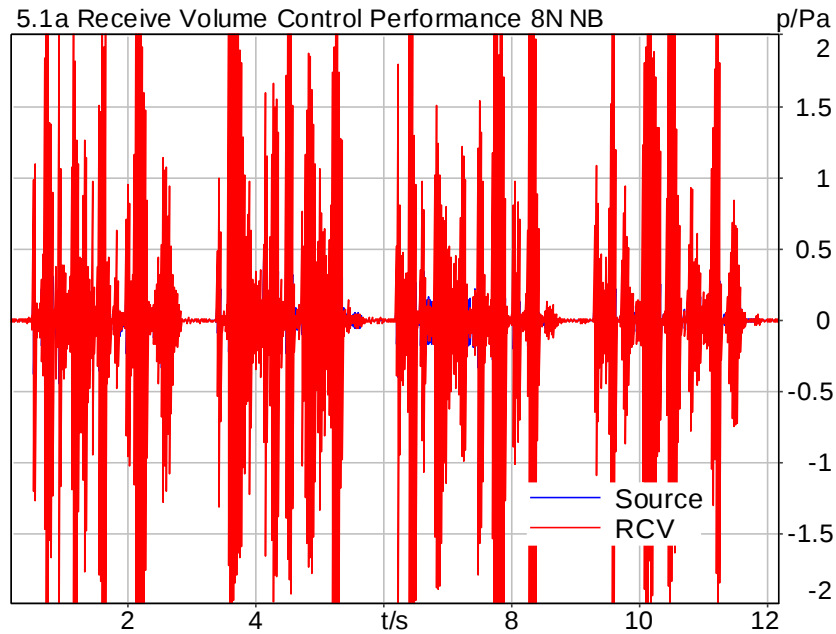


Delay (Cross): 241.9 ms

2024/1/21 下午 04:51 ACQUA 5.1.200

## 5.1a Receive Volume Control Performance 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 88.29 dB[SPL], Act.: 46.80% Ok

Ok

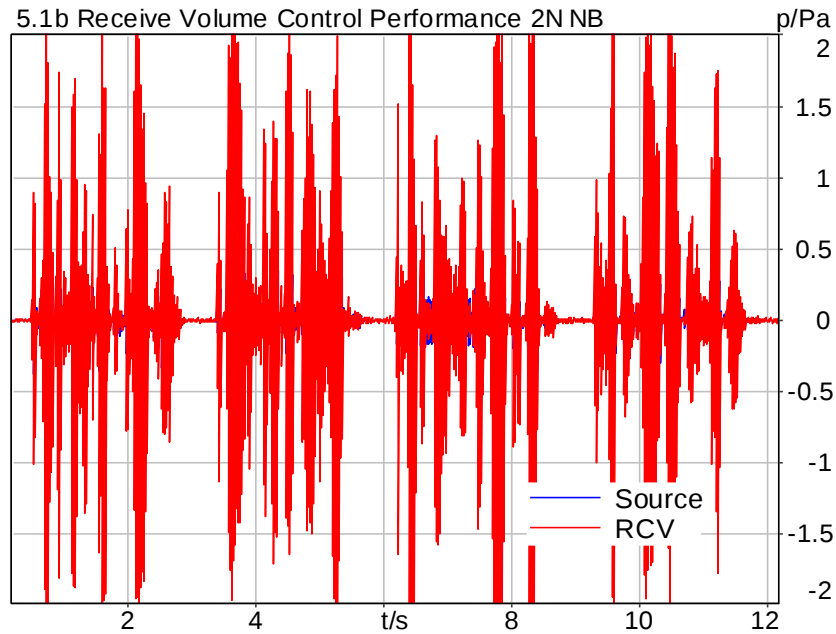
2024/1/21 下午 04:51 ACQUA 5.1.200

### Limits

|       |               |
|-------|---------------|
|       | lower         |
| Run 1 | 88.00 dB20uPa |

## 5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 87.31 dB[SPL], Act.: 42.06% Ok

Ok

2024/1/21 下午 06:29 ACQUA 5.1.200

### Limits

|       |               |
|-------|---------------|
|       | lower         |
| Run 1 | 76.00 dB20uPa |



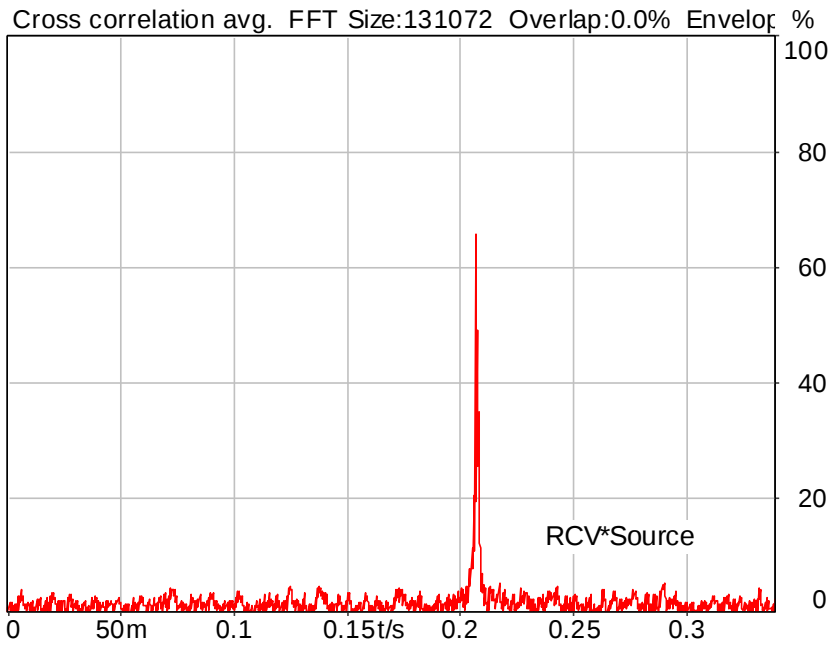
**#7 NR n26 AMR NB 4.75Kbps**

| SMD                                           | Status | Single Value Description | Single Value |
|-----------------------------------------------|--------|--------------------------|--------------|
| Overall Receive Delay NB                      | Done   | Delay (Cross) [ms]       | 207.1        |
| 5.1a Receive Volume Control Performance 8N NB | Ok     | Speech Level [dB[SPL]]   | 88.64        |
| 5.1b Receive Volume Control Performance 2N NB | Ok     | Speech Level [dB[SPL]]   | 87.73        |



## Overall Receive Delay NB

TIA-5050 (2018-01) \ Measurements \ Narrowband \ Preparation - Delay measurement

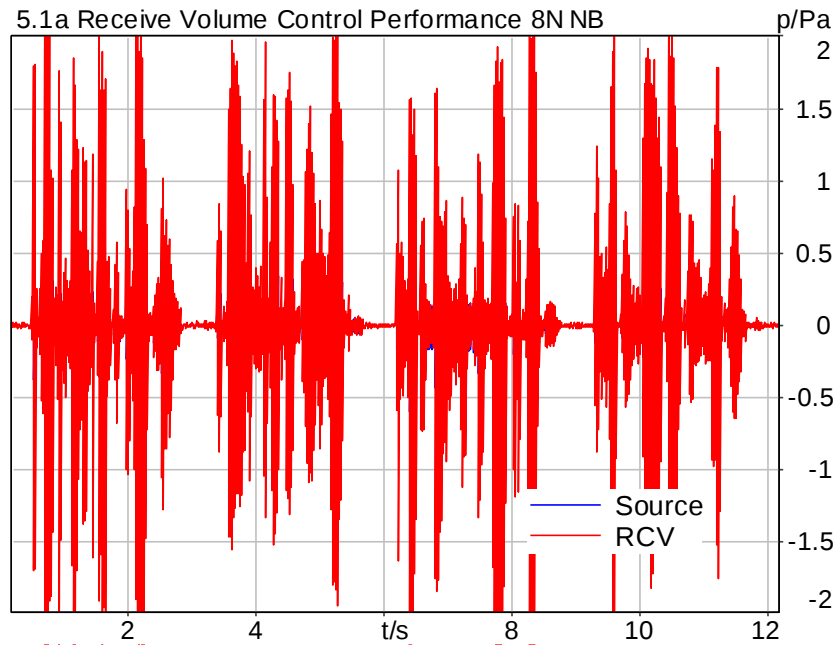


Delay (Cross): 207.1 ms

2024/1/31 下午 01:02 ACQUA 5.1.200

## 5.1a Receive Volume Control Performance 8N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 88.64 dB[SPL], Act.: 32.00% Ok

Ok

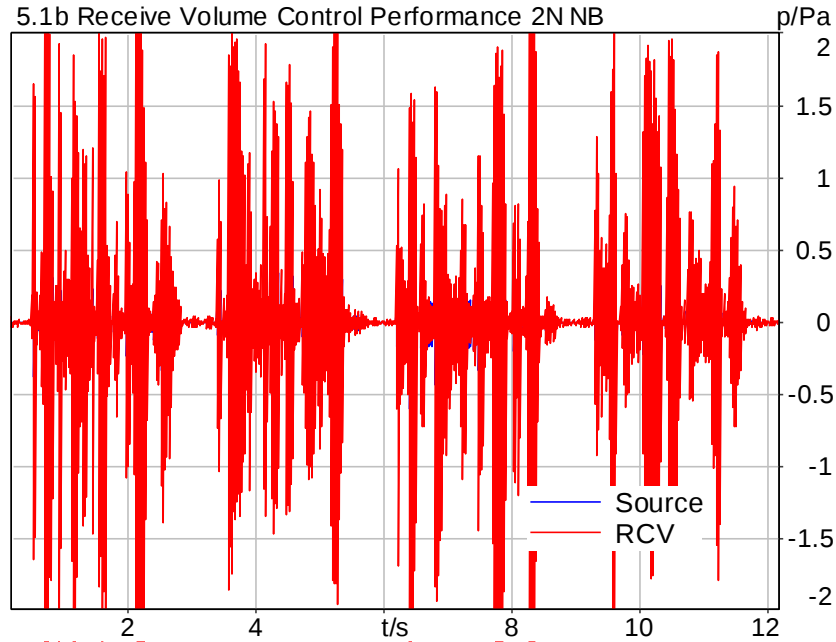
2024/1/31 下午 01:03 ACQUA 5.1.200

### Limits

|       |               |
|-------|---------------|
|       | lower         |
| Run 1 | 88.00 dB20uPa |

## 5.1b Receive Volume Control Performance 2N NB

TIA-5050 (2018-01) \ Measurements \ Narrowband



Speech Level RCV: 87.73 dB[SPL], Act.: 39.73% Ok

Ok

2024/1/31 下午 01:03 ACQUA 5.1.200

### Limits

|       |               |
|-------|---------------|
|       | lower         |
| Run 1 | 76.00 dB20uPa |



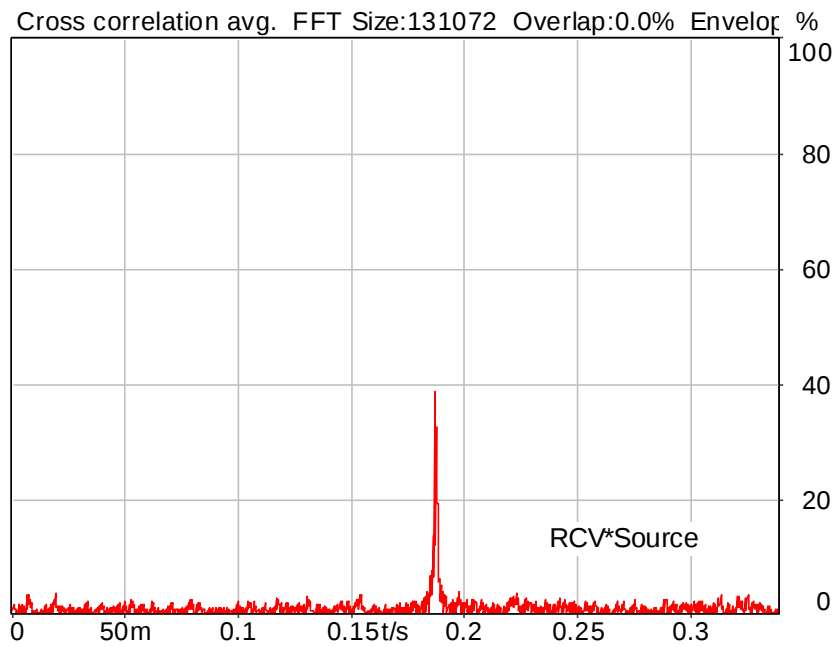
**#8 WiFi 6GHz AMR WB 23.85kbps**

| SMD                                           | Status | Single Value Description | Single Value |
|-----------------------------------------------|--------|--------------------------|--------------|
| Overall Receive Delay WB                      | Done   | Delay (Cross) [ms]       | 187.6        |
| 5.1a Receive Volume Control Performance 8N WB | Ok     | Speech Level [dB[SPL]]   | 88.03        |
| 5.1b Receive Volume Control Performance 2N WB | Ok     | Speech Level [dB[SPL]]   | 89.33        |



## Overall Receive Delay WB

TIA-5050 (2018-01) \ Measurements \ Wideband \ Preparation - Delay measurement

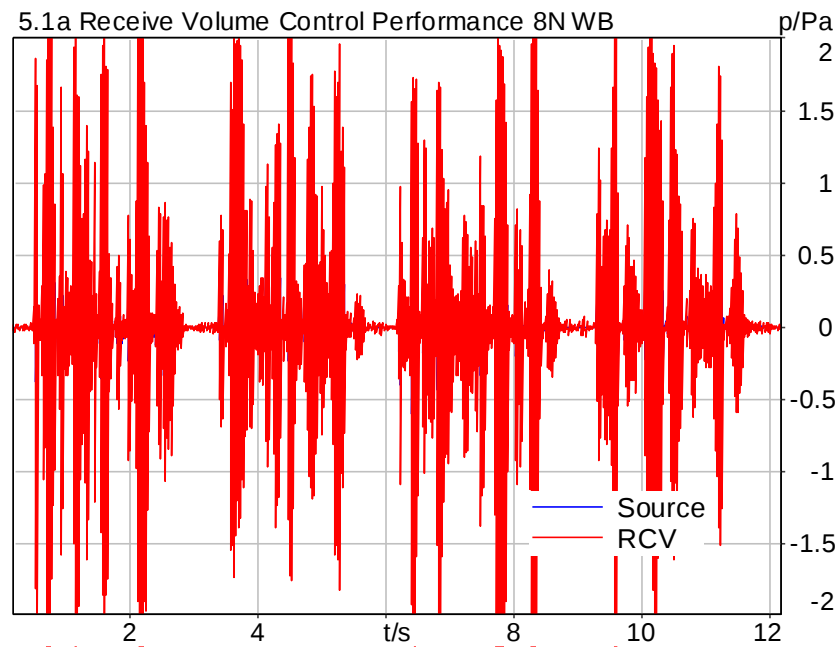


Delay (Cross): 187.6 ms

2024/2/1 上午 07:02 ACQUA 5.1.200

## 5.1a Receive Volume Control Performance 8N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 88.03 dB[SPL], Act.: 38.00% Ok

Ok

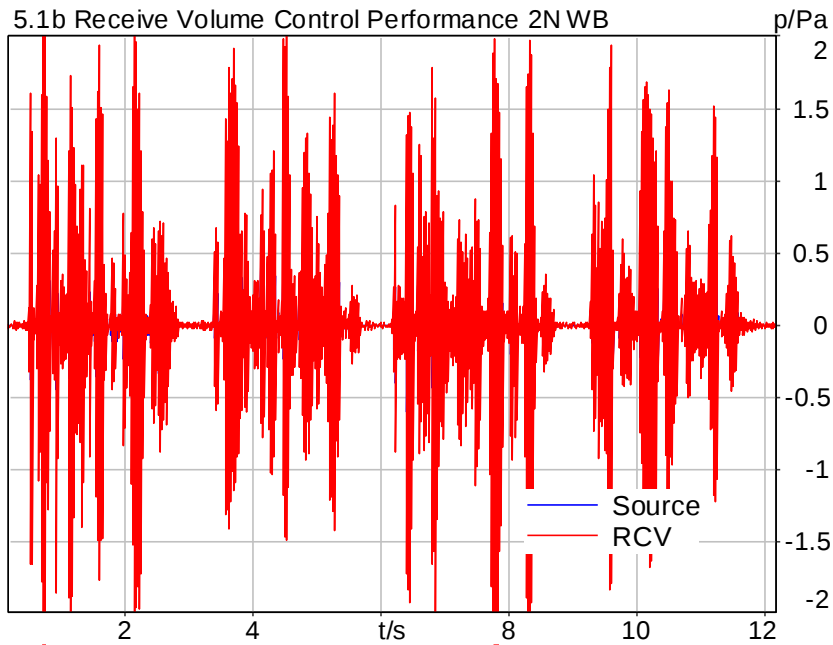
2024/2/1 上午 07:02 ACQUA 5.1.200

### Limits

|       |               |
|-------|---------------|
|       | lower         |
| Run 1 | 88.00 dB20uPa |

## 5.1b Receive Volume Control Performance 2N WB

TIA-5050 (2018-01) \ Measurements \ Wideband



Speech Level RCV: 89.33 dB[SPL], Act.: 18.56% Ok

Ok

2024/2/1 上午 07:03 ACQUA 5.1.200

### Limits

|       |               |
|-------|---------------|
|       | lower         |
| Run 1 | 76.00 dB20uPa |