TEST REPORT

No.24B01N002930-001-Audio

For

ShenZhen Eternity Technology Co.,Ltd.

LTE Smart phone

Model Name: ZEUSS68

With

Hardware Version: E81A_V2.0X

Software Version: s81_xx32-

android_userdebug_android13_20250109

FCC ID: 2AVYL-ZEUSS68

Issued Date: 2025-03-20

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

Test Laboratory:

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Revision Version

Report Number	Revision	Description	Issued Date
24B01N002930-001-Audio	Rev.0	1st edition	2025-03-20

NOTE: The previous version of the report is invalid for this revised edition.

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1. Summary of Test Report

1.1. Test Items

Description	LTE Smart phone
Model Name	ZEUSS68
Applicant's name	ShenZhen Eternity Technology Co.,Ltd.
Manufacturer's Name	ShenZhen Eternity Technology Co.,Ltd.

1.2. Test Standards

ANSI C63.19	2019
ANSI/TIA-5050	2018

1.3. Test Result

All test items are passed. Please refer to "5.2 Summary of Test Results" for detail.

1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China518000

1.5. Project Data

Project Leader	Liang Shuzhen
Testing Start Date:	2024-12-13
Testing End Date:	2025-03-12

1.6. Signature

Li Yuhui
(Prepared this test report)

Huang Qiuqin
(Reviewed this test report)

Zhang Hao
(Approved this test report)

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2. Client Information

2.1. Applicant Information

Company Name:	ShenZhen Eternity Technology Co.,Ltd.
Address/Post:	Building A2,YingZhan Industrial Park,LongTian Community,KengZi Street,PingShan District,ShenZhen P.R.C
Contact:	/
Email:	/
Telephone:	/
Fax:	/

2.2. Manufacturer Information

Company Name:	ShenZhen Eternity Technology Co.,Ltd.
Address/Post:	Building A2,YingZhan Industrial Park,LongTian Community,KengZi Street,PingShan District,ShenZhen P.R.C
Contact:	/
Email:	/
Telephone:	/
Fax:	/

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3. Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

Description	LTE Smart phone
Model Name	ZEUSS68
Brand Name	ZEUS
Frequency Bands:	GSM 850/900/1800/1900, WCDMA Band II/IV/V, LTE Band 2/4/5/12/17/41/66/71
Condition of EUT as received	No abnormality in appearance

Note: Photographs of EUT are shown in ANNEX D of this test report. Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version	Sample Arrival Date
UT06aa	867400020316612 867400020316620	E81A_V2.0X	s81_xx32-android_userdebug_android13_20250109	2024-12-13

*EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE Used During The Test

AE:

AEID*	/
Description	/
Type	/
Manufacturer	/

*AE ID: is used to identify the test sample in the lab internally.

3.4. General Description

Equipment undertest (EUT) is a LTE Smart phone with integrated antenna.
Manual and specifications of the EUT were provided to fulfil the test.
Samples undergoing test were selected by the Client.

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4. Reference Documents for Testing

The following documents listed in this section are referred for testing.

Reference	Title	Version
ANSI C63.19	American National Standard Methods of Measurement of Compatibility between Wireless Communications Devicesand Hearing Aids	2019
ANSI/TIA-5050	Telecommunications Communications Products Receve Volume Control Requirements for Wireless (Mobile) Devices	2018
KDB 285076 D05v01	HAC COMPLIANCE UNDER WAIVER DA 23-914	2023

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5. Test Results

Abbreviations used in this clause:

P Passed
F Failed
NA not applicable
NM not measured

5.1. Testing Environment

Normal Temperature: 15˚C-35˚C
Relative Humidity: 20%-75%
Local Bottom noise: 12.5dB

5.2. Summary of Test Results

See **ANNEX B** for detail

Summary of Test Results	VERDICT			
	NA	P	F	NM
Receive Volume Control Performance		P		
Receive Distrotion and Noise Performance		P		
Receive Acoustic Frequence Response Performance		P		

The lowest conversational gain is 6.07dB with a hearing aid, and 1.48dB without a hearing-aid.

5.3. Statement

Since the information of samples in this report is provided by the client, the laboratory is not responsible for the authenticity of sample information.

This report takes measured values as criterion of test conclusion. The test conlusion meets the limit requirements.

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6. Test Equipments Utilized

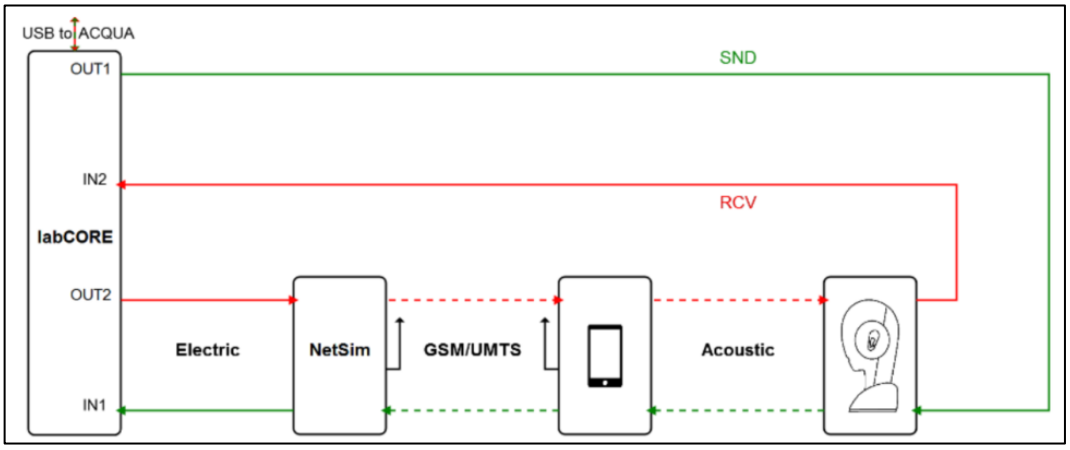
6.1. Test Equipments

Hardware			Acoustics Lab		
No.	**Name**	**Type**	**SN**	**Manufacturer**	**Cal.Due Date**
1	Measurement Frontend	IebCORE	77000455	HEAD acoustics	2026-07-23
2	Artificial Head	HMS II.3	12306254	HEAD acoustics	2025-05-18
3	Anechoic Chamber	5.10m×4.10m×2.50m	20170802	Landtop	2027-08-04
4	Universal Radio Communication Tester	CMW500	129146	R&S	2025-04-10

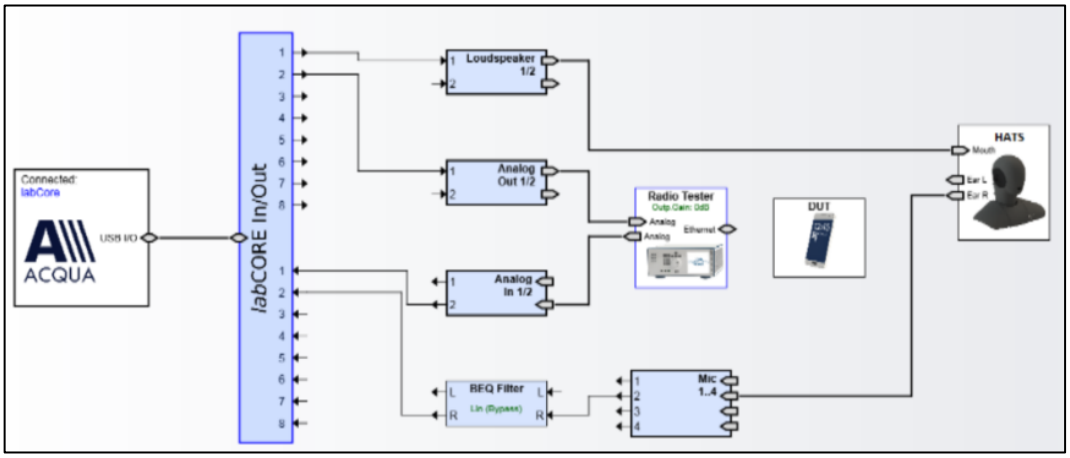
Software	
Name	**Version**
ACQUA	V6.0.200

6.2. GSM and WCDMA Test Connection Diagrams

Test signal connection:



Hardware Configuration connection:



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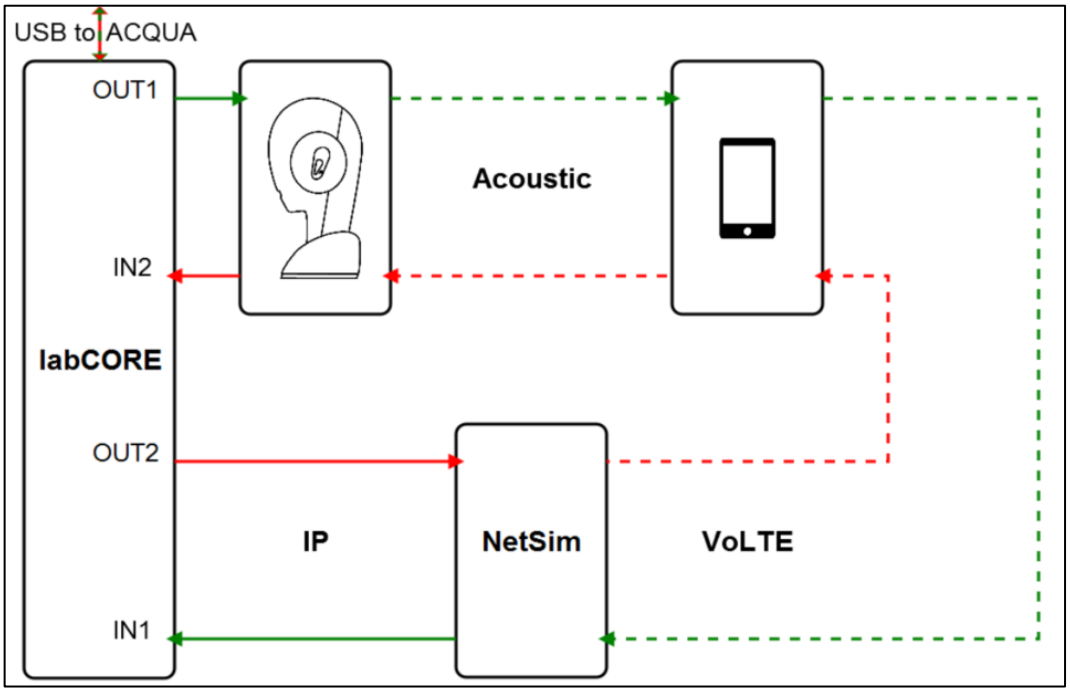
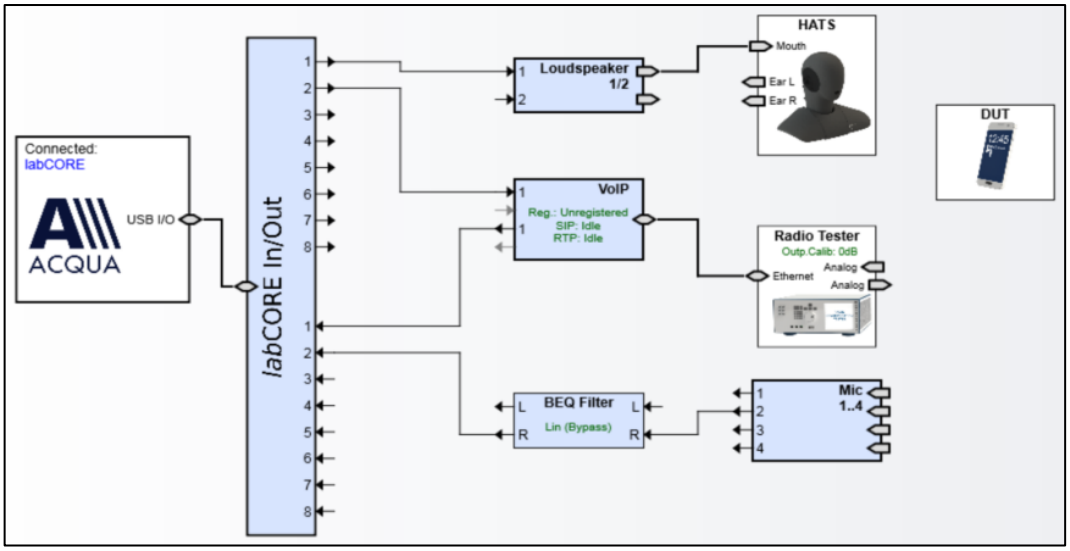
6.3. LTE Test Connection Diagrams

Test signal connection:



Hardware Configuration connection:



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ANNEX A Test Method and requirements

A.1 Receive Volume Control Performance

Test Method:

1. Configure the DUT with a mounting force of 8N and test equipment in anactive call state with the applicable codec for the transmission mode under test.
2. Set the DUT volume control to the maximum setting.
3. Apply the real speech test signal at a level of -20 dBm0 at the RETP and measure the acoustic output at the Drum Reference Point (DRP) over one complete sequence of the test signal.
4. Over the applicable frequency band, determine the ASL in dBSPL for the resulting sound pressurelevel in accordance with Method B of ITU-T Recommendation P.56:
   a. Narrowband 100 Hz through 4000 Hz.
   b. Wideband 100 Hz through 7720 Hz.
5. Calculate the Conversational Gain by subtracting 70 dB from the measured dBSPL
   [Conversational Gain=(Measured dBSPL Level -70 dBSPL) dB]
6. Repeat steps 2-5 with a mounting force of 2N.

Test requirement:

According to KDB 285076 D05v01, only CMRS narrowband and CMRS wideband voice codecs are required to comply with the volume control requirements of the TIA 5050-2018 Volume Control Standard as amended as follows:

1. For the 2N mounting force test, one narrowband and one wideband voice codec embedded with the handset must pass with at least one volume control setting with a conversational gain of ≥ 6 dB for all voice services, bands of operation and air interfaces over which it operates using one codec bit rate of the applicant's choosing.

2. For the 8N mounting force test, one narrowband and one wideband voice codec embedded with the handset must pass with at least one volume control setting with a conversational gain of ≥ 6 dB for all voice services, bands of operation and air interfaces over which they operate but is not required to meet or exceed the full 18 dB of conversational gain specified in section 5.1.1 of the TIA 5050 Volume Control Standard using one codec bit rate of the applicant's choosing.

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A.2 Receive Distrotion and Noise Performance

Test Method:

1. Configure the DUT with a mounting force of 8N and test equipment in anactive call state with the applicable codec for the transmission mode under test with the volumecontrol at the setting determined in A.1.
2. Receive distortion and noise is measured using the PN-SDNR procedure.
3. To ensure DUT activation, apply the real speech test signal at a level of -20 dBm0 followed immediately by the initial 1/3 octave center firequency PN test signal in TIA 5050 Table A.1 based on thenarrowband or wideband operating mode. Measure the acoustic output at the DRP over the completesequence of the PN test signal.
4.Translate the measurement made at the DRP to the FF using the translation data in TIA 5050 Annex B.
5. Calculate the acoustic output unweighted total signal power of the stimulus measurement band asdescribed in TIA 5050 A.2.
6. Calculate the notched A-weighting distortion and noise components as described in A.3.
7. Calculate the ratio of the signal power to the total A-weighted distortion and noise power using Eq TIA 5050 A-1.
8. Repeat for each of the remaining 1/3 octave center frequencies in TIA 5050 Table A.l based on the narrowband or wideband operating mode.
9. Repeat steps 2-8 with a mounting force of 2N.

Test requirement:

With a mounting force of 8N and 2N, the ratio of the stimulus signal power to the 100 Hz to 8000 Hz total A-weighted distortion and noise power shall be ⩾ 20 dB when tested over the range of 1/3 octaveband center frequencies:

a. Narrowband transmission mode: Each 1/3 octave band center frequency from 400 Hz to 3150 Hz
b. Wideband transmission mode: Each 1/3 octave band center frequency from 250 Hz to 5000 Hz.

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A.3 Receive Acoustic Frequence Response Performance

Test Method:

1. Configure the DUT with a mounting force of 8N and test equipment in anactive call state with the applicable codec for the transmission mode under test with the volumecontrol at the setting determined in A.1.
2. Apply the real speech test signal with a level of -20 dBm0 at the RETP.
3. Capture the frequency spectrum at the DRP of the HATS using real-time analysis with 1/12 octave bands over the frequency range from 100 Hz to 4000 Hz for narrowband measurements, or over thefrequency range from 100 Hz to 8000 Hz for wideband measurements, averaged over the entireduration of the test signal.
4. Transform the DRP frequency spectrum measurement to the FF or DF (see TIA 5050 Annex B).
5. Divide the 1/12 octave measurement data by the 1/12 octave frequency spectrum of the test signal atthe RETP and present the measurement in terms of dB(Pa/V).
6. Apply the applicable frequency response limits to determine compliance.
7. Repeat with a mounting force of 2N.

Test requirement:

For the volume control settings determined in B.1 with a mounting force of 8N and 2N, the receive frequency response shall be measured at the DRP in 1/12 octave bands. After translation to the FF or DF, it shall fall between the applicable upper and lower limits.

a. Narrowband: The 1/12 octave band frequency response after translation to the FF or DF shall fall between the upper and lower limits given in Table B.3-1 and shown in Figure 1

Table A.3-1 – Narrowband Receive Frequency Response Limits

Lower Limit Frequency (Hz)	Lower Limit (dB)	Upper Limit Frequency (Hz)	Upper Limit (dB)
300	-6	100	+6
3400	-6	4000	+6

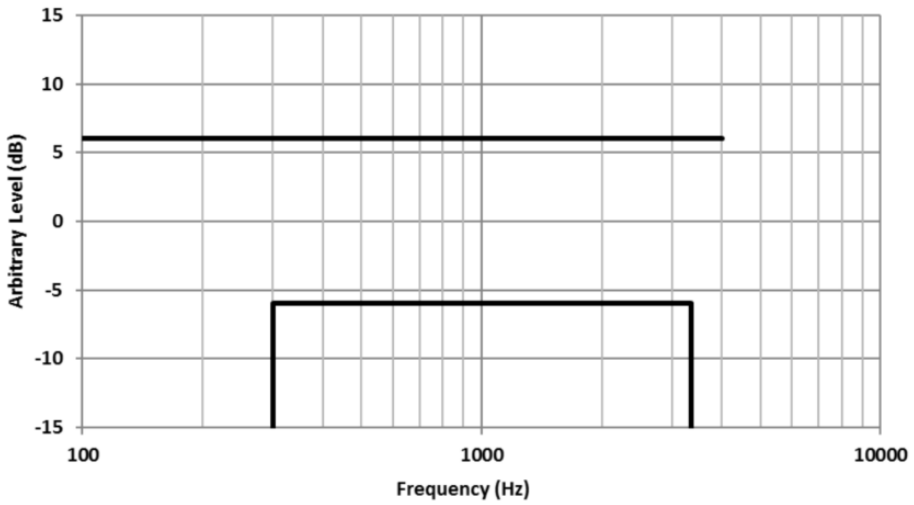

Figure A.3-1 – Narrowband Receive Frequency Response Limits

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b. Wideband: The 1/12 octave band frequency response after translation to the FF or DF shall fall between the upper and lower limits given in Table B.3-2 and shown in Figure 2.

Table A.3-2 – Wideband Receive Frequency Response Limits

Lower Limit Frequency (Hz)	Lower Limit (dB)	Upper Limit Frequency (Hz)	Upper Limit (dB)
300	-10	100	+6
300	-6	1000	+6
5000	-6	2000	+8
6300	-12	8000	+8

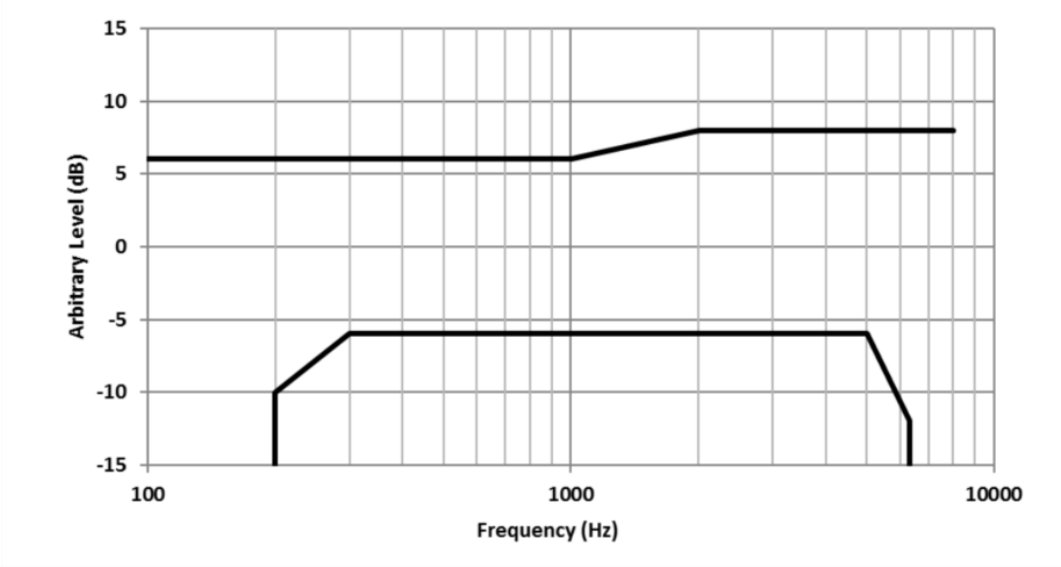

Figure A.3-2 – Wideband Receive Frequency Response Limits

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ANNEX B Detailed Test Results

B.1. GSM Test Results

< EUT Supported Codec >

	AMR-NB Bit Rate
GSM	4.75 Kbps
	5.15 Kbps
	5.90 Kbps
	6.60 Kbps
	7.40 Kbps
	7.95 Kbps
	10.20 Kbps
	12.20 Kbps

< Summary Tests Results >

GSM Band	Channel	Volune Level	Codec	Voice Bandwith	2N/8N	Receive Volume Control [dBSPL]	Conversational Gain [dB]	Minimum Receive Distrotion		Receive Acoustic Frequence Response
								[Hz]	[dB]	
GSM850	162	Max	AMR	NB	2N	76.7	6.7	1250	23.39	Pass
GSM850	162	Max	AMR	NB	8N	80.42	10.42	3150	23.07	Pass
GSM1900	600	Max	AMR	NB	2N	76.56	6.56	3150	23.69	Pass
GSM1900	600	Max	AMR	NB	8N	78.64	8.64	3150	23.34	Pass

Please refer to Annex C.1 for the Frequency Response.

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B.2. WCDMA Test Results

< EUT Supported Codec >

	AMR-NB Bit Rate	AMR-WB Bit Rate
WCDMA	4.75 Kbps	6.60 Kbps
	5.15 Kbps	8.85 Kbps
	5.90 Kbps	12.65 Kbps
	6.60 Kbps	14.25 Kbps
	7.40 Kbps	15.85 Kbps
	7.95 Kbps	18.25 Kbps
	10.20 Kbps	19.85 Kbps
	12.20 Kbps	23.05 Kbps
	/	23.85 Kbps

< Summary Tests Results >

WCDMA Band	Channel	Volune Level	Codec	Voice Bandwith	Bit Rate [kbps]	2N/8N	Receive Volume Control [dBSPL]	Conversational Gain [dB]	Minimum Receive Distrotion		Receive Acoustic Frequence Response
									[Hz]	[dB]	
Band II	9262	Max	AMR	NB	12.2	2N	77.70	7.70	3150	21.08	Pass
Band II	9262	Max	AMR	NB	12.2	8N	79.17	9.17	3150	20.32	Pass
Band II	9262	Max	AMR	WB	23.85	2N	78.37	8.37	5000	20.14	Pass
Band II	9262	Max	AMR	WB	23.85	8N	82.54	12.54	5000	20.84	Pass
Band IV	1312	Max	AMR	NB	12.2	2N	76.75	6.75	3150	20.65	Pass
Band IV	1312	Max	AMR	NB	12.2	8N	80.46	10.46	2500	20.22	Pass
Band IV	1312	Max	AMR	WB	23.85	2N	78.86	8.86	5000	20.41	Pass

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WCDMA Band	Channel	Volune Level	Codec	Voice Bandwith	Bit Rate [kbps]	2N/8N	Receive Volume Control [dBSPL]	Conversational Gain [dB]	Minimum Receive Distrotion		Receive Acoustic Frequence Response
									[Hz]	[dB]	
Band IV	1312	Max	AMR	WB	23.85	8N	82.37	12.37	5000	21.07	Pass
Band V	4132	Max	AMR	NB	12.2	2N	77.72	7.72	3150	21.20	Pass
Band V	4132	Max	AMR	NB	12.2	8N	80.44	10.44	3150	20.36	Pass
Band V	4132	Max	AMR	WB	23.85	2N	79.69	9.69	5000	20.04	Pass
Band V	4132	Max	AMR	WB	23.85	8N	82.30	12.30	5000	20.14	Pass

Please refer to Annex C.2 for the Frequency Response.

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B.3. LTE Test Results

< EUT Supported Codec >

	AMR-NB Bit Rate	AMR-WB Bit Rate	EVS-NB Bit Rate	EVS-WB Bit Rate
VoLTE	4.75 Kbps	6.60 Kbps	5.9 Kbps	5.9 Kbps
	5.15 Kbps	8.85 Kbps	7.2 Kbps	7.2 Kbps
	5.90 Kbps	12.65 Kbps	8.0 Kbps	8.0 Kbps
	6.60 Kbps	14.25 Kbps	9.6 Kbps	9.6 Kbps
	7.40 Kbps	15.85 Kbps	13.2 Kbps	13.2 Kbps
	7.95 Kbps	18.25 Kbps	16.4 Kbps	16.4 Kbps
	10.20 Kbps	19.85 Kbps	24.4 Kbps	24.4 Kbps
	12.20 Kbps	23.05 Kbps	/	/
	/	23.85 Kbps	/	/

An investigation was performed to determine the modulation, the bandwidth configuration and RB configuration to be used for testing. For LTE FDD bands, 20MHz BW, QPSK, 100RB, 0RB offset was used for the testing as the worst-case configuration for the handset. For TD-LTE bands, 20MHz BW, QPSK, 100RB, 0RB offset was used for the testing as the worst-case configuration for the handset. See below table for comparisons between different radios configurations:

< Radio Configuration Investigation >

LTE Band		Channel	Bandwidth [MHz]	Modulation	RB Size	RB Off Size	Volune Level	Codec	NB/WB	Bit Rate [kbps]	2N/8N	Minimum Distortion	
												[Hz]	[dB]
LTE FDD	Band 2	18900	20	QPSK	1	0	Max	AMR	WB	23.85	8N	5000	20.66
	Band 2	18900	20	QPSK	50	0	Max	AMR	WB	23.85	8N	5000	20.09
	Band 2	**18900**	**20**	**QPSK**	**100**	**0**	**Max**	**AMR**	**WB**	**23.85**	**8N**	**5000**	**20.08**
	Band 2	18900	20	16QAM	1	0	Max	AMR	WB	23.85	8N	5000	20.09
	Band 2	18900	15	QPSK	1	0	Max	AMR	WB	23.85	8N	5000	20.30

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LTE Band		Channel	Bandwidth [MHz]	Modulation	RB Size	RB Off Size	Volune Level	Codec	NB/WB	Bit Rate [kbps]	2N/8N	Minimum Distortion	
												[Hz]	[dB]
	Band 2	18900	10	QPSK	1	0	Max	AMR	WB	23.85	8N	5000	20.10
	Band 2	18900	5	QPSK	1	0	Max	AMR	WB	23.85	8N	5000	20.26
	Band 2	18900	3	QPSK	1	0	Max	AMR	WB	23.85	8N	5000	20.14
	Band 2	18900	1.4	QPSK	1	0	Max	AMR	WB	23.85	8N	5000	20.19
TD-LTE	Band 41	41140	20	QPSK	1	0	Max	AMR	WB	23.85	8N	5000	20.26
	Band 41	41140	20	QPSK	50	0	Max	AMR	WB	23.85	8N	5000	20.26
	Band 41	**41140**	**20**	**QPSK**	**100**	**0**	**Max**	**AMR**	**WB**	**23.85**	**8N**	**5000**	**20.08**
	Band 41	41140	20	16QAM	1	0	Max	AMR	WB	23.85	8N	5000	20.20
	Band 41	41140	20	64QAM	1	0	Max	AMR	WB	23.85	8N	5000	20.84
	Band 41	41140	10	QPSK	1	0	Max	AMR	WB	23.85	8N	5000	20.40
	Band 41	41140	5	QPSK	1	0	Max	AMR	WB	23.85	8N	5000	20.40

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< LTE FDD Summary Tests Results >

LTE Band	Channel	Volune Level	Codec	Voice Bandwith	Bit Rate [kbps]	2N/8N	Receive Volume Control [dBSPL]	Conversational Gain [dB]	Minimum Distortion		Receive Acoustic Frequence Response
									[Hz]	[dB]	
Band 2	18900	Max	AMR	NB	12.20	2N	77.01	7.01	3150	23.40	Pass
Band 2	18900	Max	AMR	NB	12.20	8N	79.64	9.64	3150	22.76	Pass
Band 2	18900	Max	AMR	WB	23.85	2N	78.16	8.16	5000	20.05	Pass
Band 2	18900	Max	AMR	WB	23.85	8N	80.98	10.98	5000	20.09	Pass
Band 2	18900	Max	EVS	NB	24.4	2N	79.55	9.55	/	/	/
Band 2	18900	Max	EVS	NB	24.4	8N	82.54	12.54	/	/	/
Band 2	18900	Max	EVS	WB	24.4	2N	79.93	9.93	/	/	/
Band 2	18900	Max	EVS	WB	24.4	8N	82.45	12.45	/	/	/
Band 4	20175	Max	AMR	NB	12.20	2N	76.97	6.97	3150	23.30	Pass
Band 4	20175	Max	AMR	NB	12.20	8N	79.50	9.50	3150	22.86	Pass
Band 4	20175	Max	AMR	WB	23.85	2N	78.20	8.20	5000	20.15	Pass
Band 4	20175	Max	AMR	WB	23.85	8N	81.33	11.33	5000	20.46	Pass
Band 4	20175	Max	EVS	NB	24.4	2N	79.75	9.75	/	/	/
Band 4	20175	Max	EVS	NB	24.4	8N	82.30	12.30	/	/	/
Band 4	20175	Max	EVS	WB	24.4	2N	80.25	10.25	/	/	/
Band 4	20175	Max	EVS	WB	24.4	8N	82.37	12.37	/	/	/
Band 5	20525	Max	AMR	NB	12.20	2N	76.76	6.76	1250	20.12	Pass
Band 5	20525	Max	AMR	NB	12.20	8N	79.60	9.60	1250	20.00	Pass
Band 5	20525	Max	AMR	WB	23.85	2N	78.41	8.41	5000	20.36	Pass
Band 5	20525	Max	AMR	WB	23.85	8N	81.83	11.83	5000	20.06	Pass
Band 5	20525	Max	EVS	NB	24.4	2N	79.88	9.88	/	/	/
Band 5	20525	Max	EVS	NB	24.4	8N	82.83	12.83	/	/	/

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LTE Band	Channel	Volune Level	Codec	Voice Bandwith	Bit Rate [kbps]	2N/8N	Receive Volume Control [dBSPL]	Conversational Gain [dB]	Minimum Distortion		Receive Acoustic Frequence Response
									[Hz]	[dB]	
Band 5	20525	Max	EVS	WB	24.4	2N	80.43	10.43	/	/	/
Band 5	20525	Max	EVS	WB	24.4	8N	83.14	13.14	/	/	/
Band 12	23095	Max	AMR	NB	12.20	2N	76.07	6.07	3150	23.13	Pass
Band 12	23095	Max	AMR	NB	12.20	8N	79.25	9.25	3150	22.56	Pass
Band 12	23095	Max	AMR	WB	23.85	2N	79.08	9.08	5000	20.16	Pass
Band 12	23095	Max	AMR	WB	23.85	8N	81.18	11.18	5000	20.11	Pass
Band 12	23095	Max	EVS	NB	24.4	2N	80.04	10.04	/	/	/
Band 12	23095	Max	EVS	NB	24.4	8N	82.67	12.67	/	/	/
Band 12	23095	Max	EVS	WB	24.4	2N	80.34	10.34	/	/	/
Band 12	23095	Max	EVS	WB	24.4	8N	83.06	13.06	/	/	/
Band 17	23790	Max	AMR	NB	12.20	2N	77.42	7.42	3150	23.19	Pass
Band 17	23790	Max	AMR	NB	12.20	8N	79.71	9.71	3150	23.50	Pass
Band 17	23790	Max	AMR	WB	23.85	2N	79.30	9.30	5000	20.07	Pass
Band 17	23790	Max	AMR	WB	23.85	8N	81.74	11.74	5000	20.10	Pass
Band 17	23790	Max	EVS	NB	24.4	2N	80.35	10.35	/	/	/
Band 17	23790	Max	EVS	NB	24.4	8N	82.71	12.71	/	/	/
Band 17	23790	Max	EVS	WB	24.4	2N	80.28	10.28	/	/	/
Band 17	23790	Max	EVS	WB	24.4	8N	83.03	13.03	/	/	/
Band 66	132322	Max	AMR	NB	12.20	2N	76.31	6.31	3150	23.58	Pass
Band 66	132322	Max	AMR	NB	12.20	8N	77.44	7.44	3150	23.40	Pass
Band 66	132322	Max	AMR	WB	23.85	2N	79.44	9.44	5000	20.00	Pass
Band 66	132322	Max	AMR	WB	23.85	8N	82.27	12.27	5000	20.11	Pass
Band 66	132322	Max	EVS	NB	24.4	2N	80.16	10.16	/	/	/

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LTE Band	Channel	Volune Level	Codec	Voice Bandwith	Bit Rate [kbps]	2N/8N	Receive Volume Control [dBSPL]	Conversational Gain [dB]	Minimum Distortion		Receive Acoustic Frequence Response
									[Hz]	[dB]	
Band 66	132322	Max	EVS	NB	24.4	8N	82.89	12.89	/	/	/
Band 66	132322	Max	EVS	WB	24.4	2N	80.29	10.29	/	/	/
Band 66	132322	Max	EVS	WB	24.4	8N	83.38	13.38	/	/	/
Band 71	133297	Max	AMR	NB	12.20	2N	76.37	6.37	3150	23.94	Pass
Band 71	133297	Max	AMR	NB	12.20	8N	79.70	9.70	5000	23.20	Pass
Band 71	133297	Max	AMR	WB	23.85	2N	79.21	9.21	5000	20.15	Pass
Band 71	133297	Max	AMR	WB	23.85	8N	82.06	12.06	5000	20.12	Pass
Band 71	133297	Max	EVS	NB	24.4	2N	80.33	10.33	/	/	/
Band 71	133297	Max	EVS	NB	24.4	8N	82.36	12.36	/	/	/
Band 71	133297	Max	EVS	WB	24.4	2N	80.19	10.19	/	/	/
Band 71	133297	Max	EVS	WB	24.4	8N	82.32	12.32	/	/	/

Please refer to Annex C.3 for the Frequency Response.

The lowest conversational gain is 6.07dB with a hearing aid.

Turn off the accessibility feature - hearing aid function in the phone, and test with the same configuration.

LTE Band	Channel	Volune Level	Codec	Voice Bandwith	Bit Rate[kbps]	2N/8N	Receive Volume Control [dBSPL]	Conversational Gain [dB]
Band 12	23095	Max	AMR	NB	12.20	2N	71.48	1.48

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< TD-LTE Summary Tests Results >

LTE Band	Channel	Volune Level	Codec	Voice Bandwith	Bit Rate [kbps]	2N/8N	Receive Volume Control [dBSPL]	Conversational Gain [dB]	Minimum Distortion		Receive Acoustic Frequence Response
									[Hz]	[dB]	
Band 41	40620	Max	AMR	NB	12.20	2N	77.41	7.41	1.26	1250	Pass
Band 41	40620	Max	AMR	NB	12.20	8N	79.45	9.45	2.39	3150	Pass
Band 41	40620	Max	AMR	WB	23.85	2N	78.25	8.25	0.80	5000	Pass
Band 41	40620	Max	AMR	WB	23.85	8N	81.67	11.67	1.30	5000	Pass
Band 41	40620	Max	EVS	NB	24.4	2N	80.33	10.33	/	/	/
Band 41	40620	Max	EVS	NB	24.4	8N	82.53	12.53	/	/	/
Band 41	40620	Max	EVS	WB	24.4	2N	80.52	10.52	/	/	/
Band 41	40620	Max	EVS	WB	24.4	8N	82.66	12.66	/	/	/

Please refer to Annex C.3 for the Frequency Response.

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ANNEX C Frequency Response Plots

C.1. GSM Frequency Response Plots

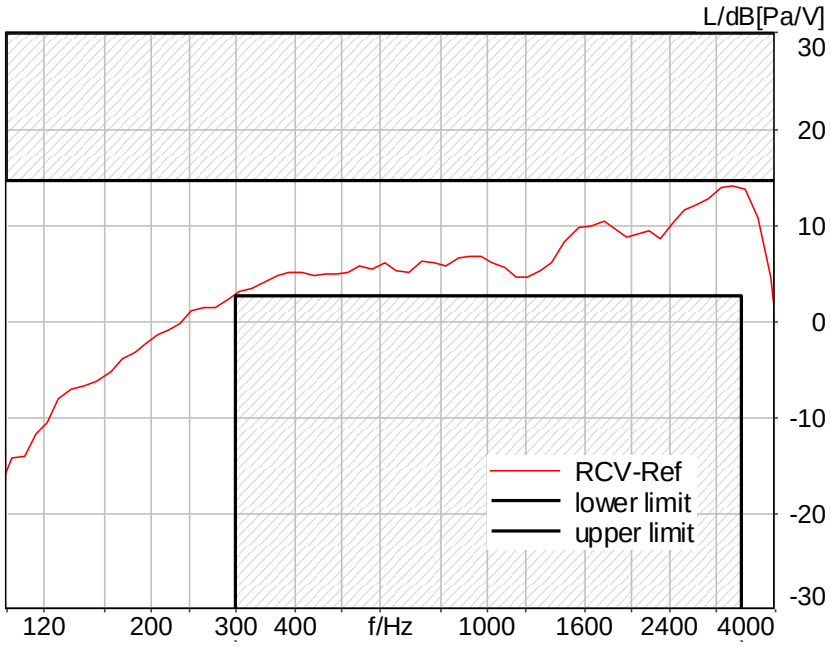

Figure C.1-1 – GSM850 2N FF Norrowband Frequency Response

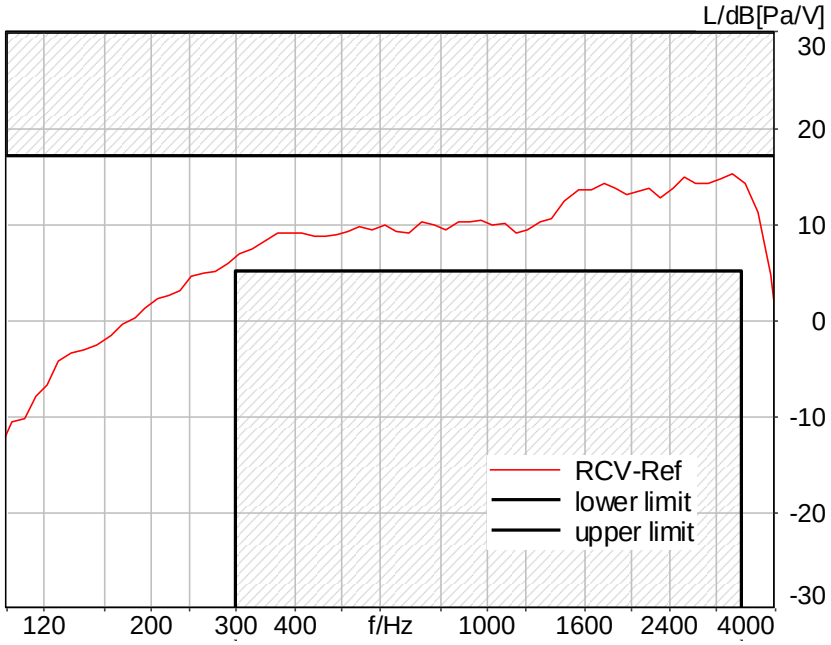

Figure C.1-2 – GSM850 8N FF Norrowband Frequency Response

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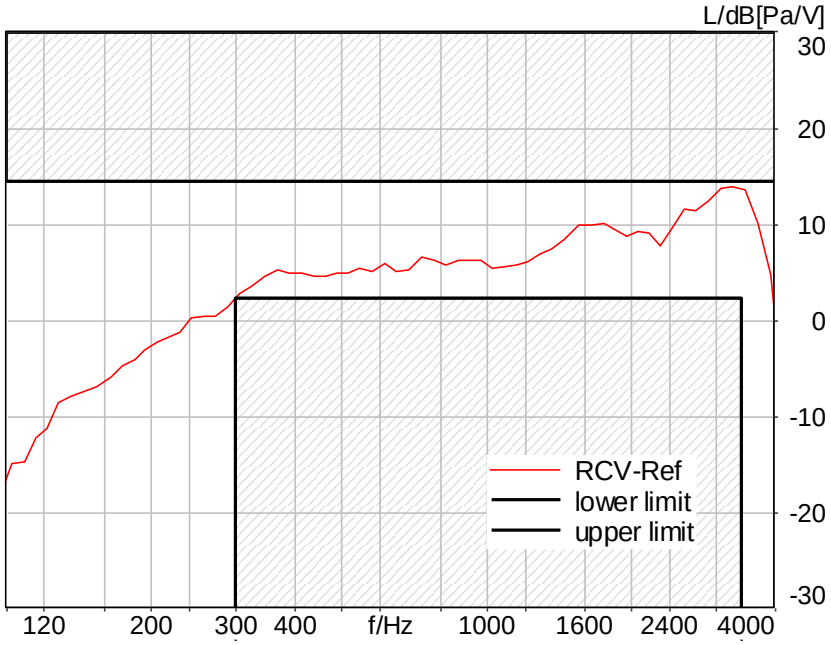

Figure C.1-3 – GSM1900 2N FF Norrowband Frequency Response

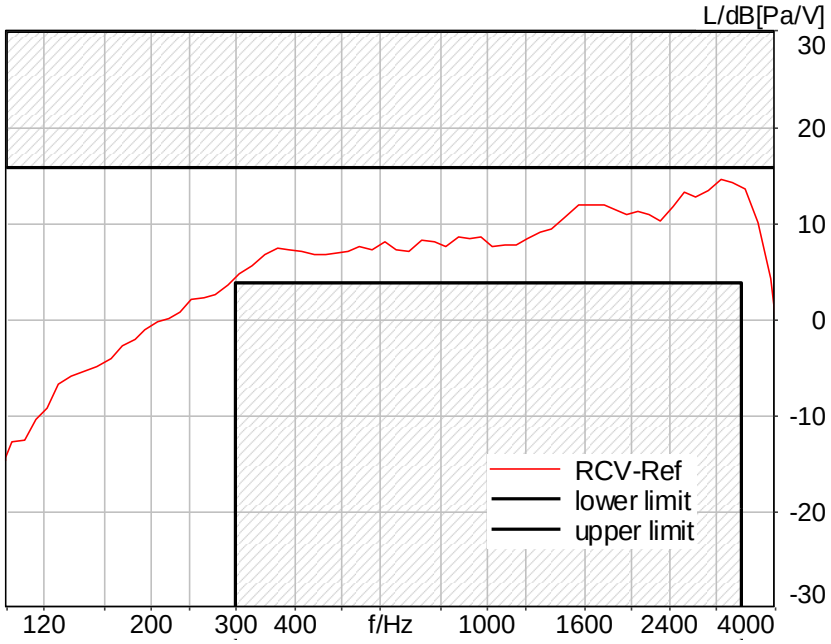

Figure C.1-4 – GSM1900 8N FF Norrowband Frequency Response

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C.2. WCDMA Frequency Response Plots

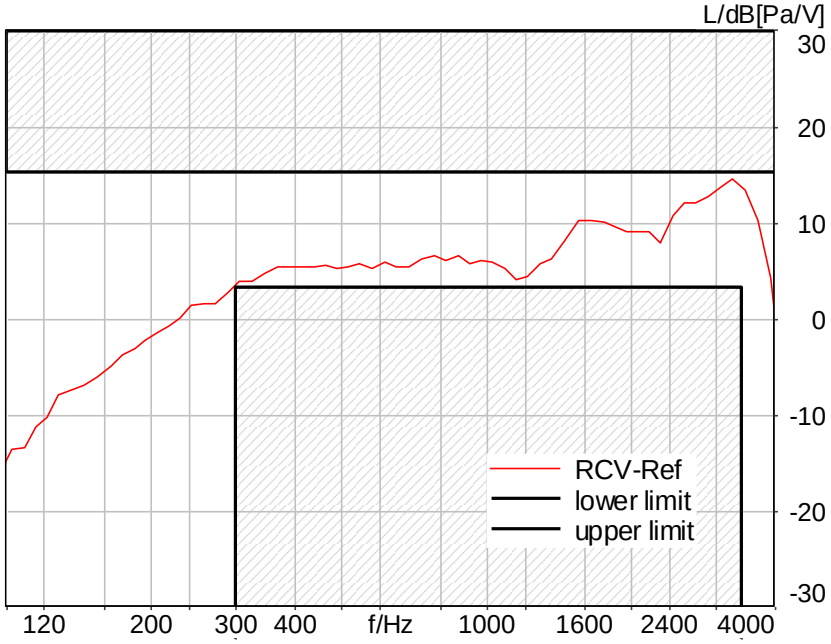

Figure C.2-1 – WCDMA Band II 2N FF Norrowband Frequency Response

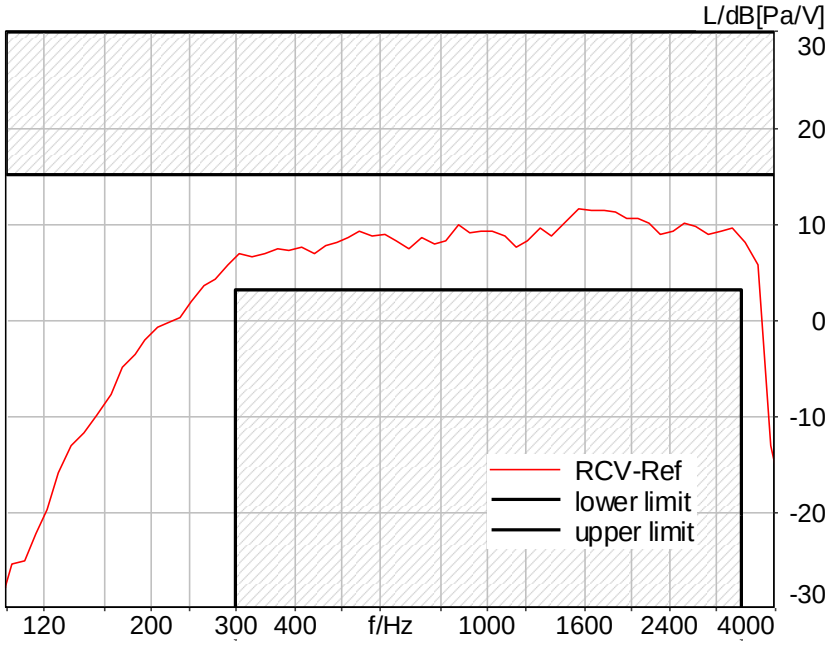

Figure C.2-2 – WCDMA Band II 8N FF Norrowband Frequency Response

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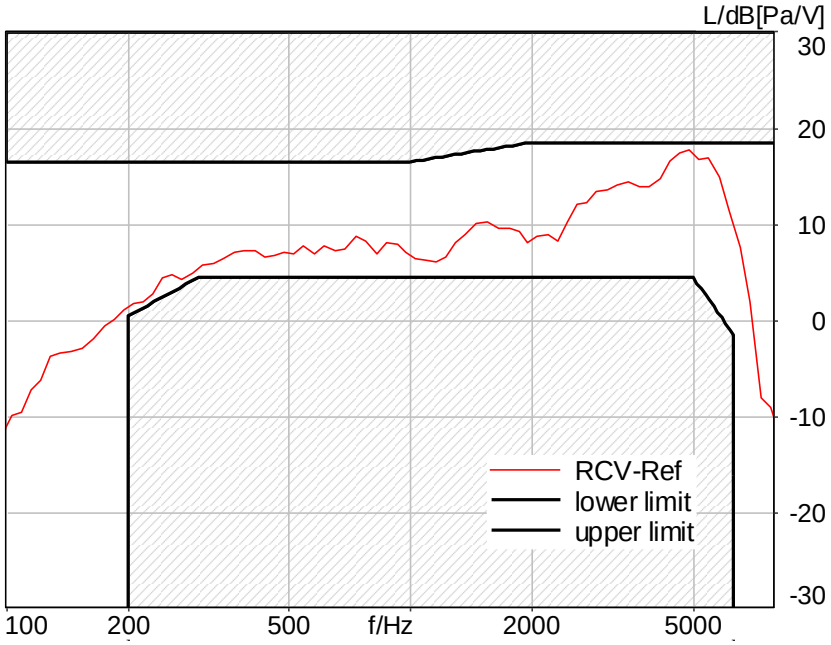

Figure C.2-3 – WCDMA Band II 2N FF Wideband Frequency Response

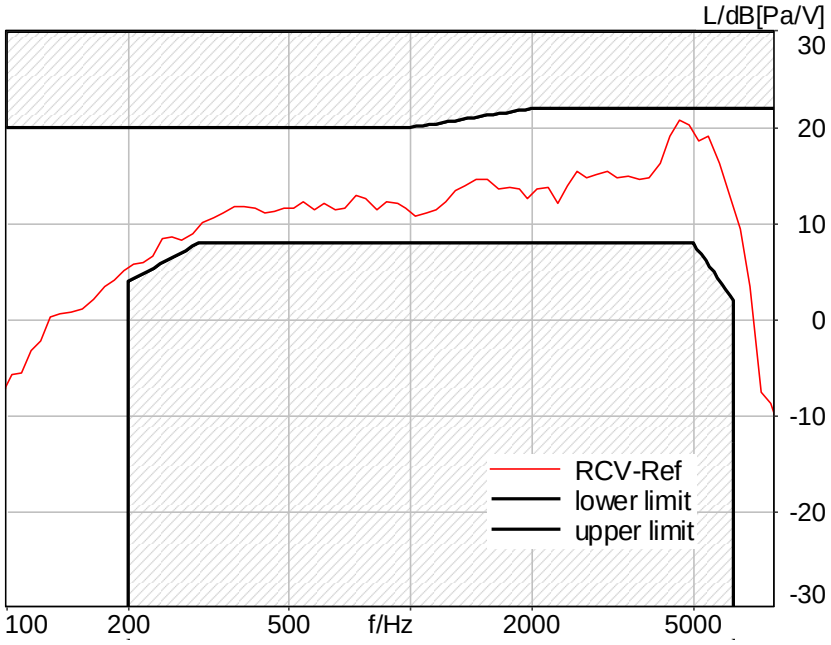

Figure C.2-4 – WCDMA Band II 8N FF Wideband Frequency Response

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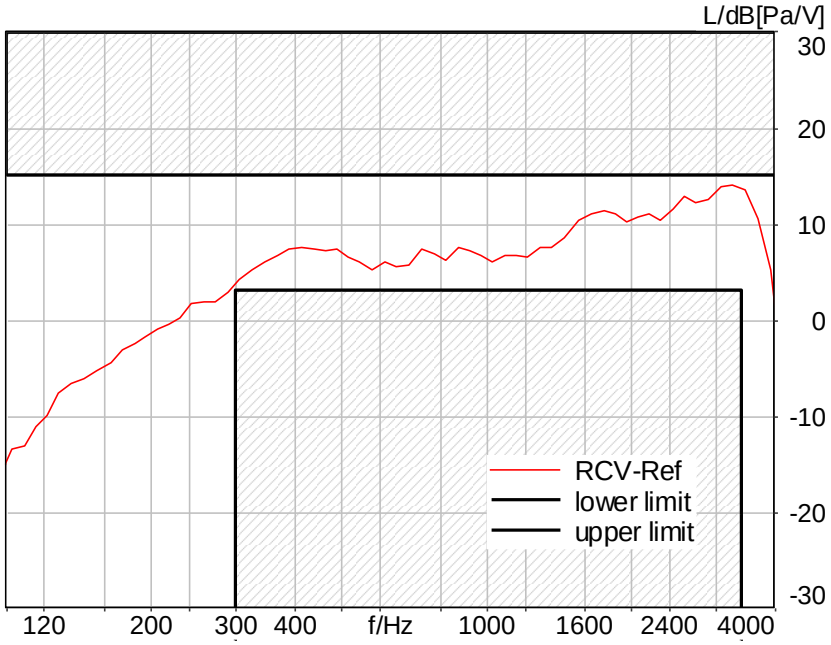

Figure C.2-5 – WCDMA Band IV 2N FF Norrowband Frequency Response

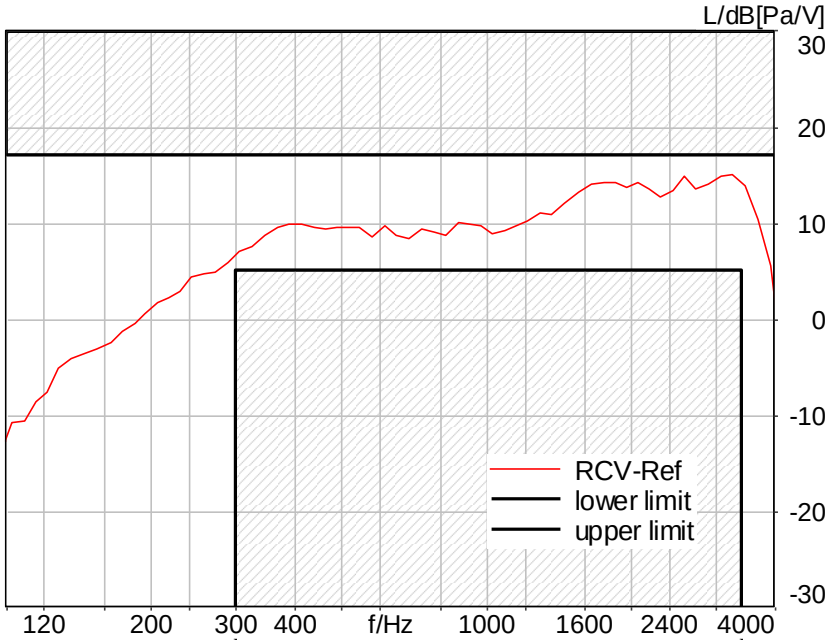

Figure C.2-6 – WCDMA Band IV 8N FF Norrowband Frequency Response

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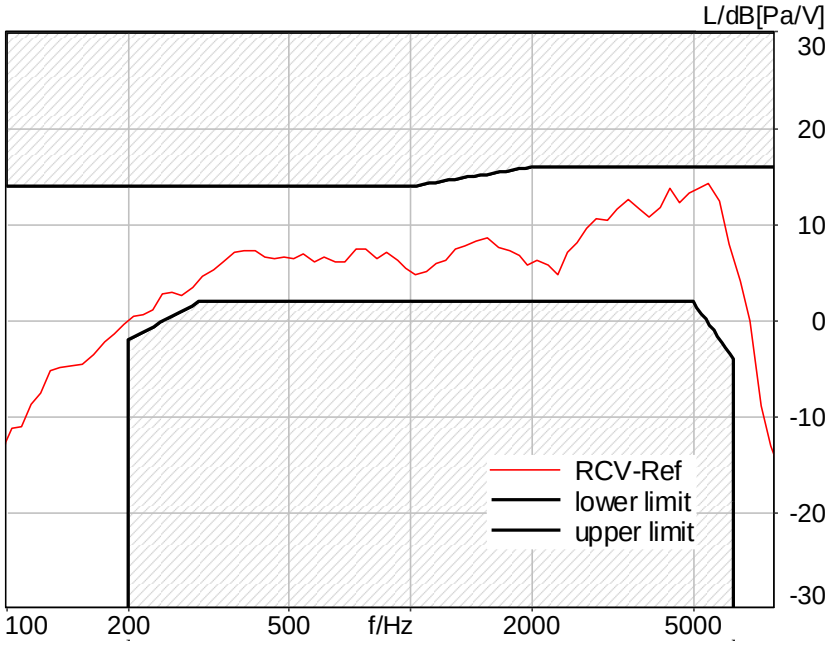

Figure C.2-7 – WCDMA Band IV 2N FF Wideband Frequency Response

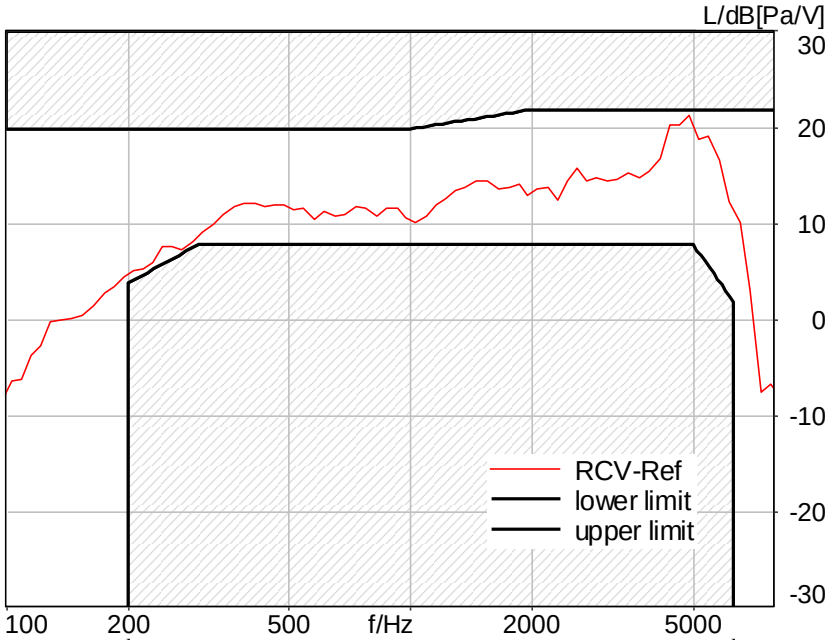

Figure C.2-8 – WCDMA Band IV 8N FF Wideband Frequency Response

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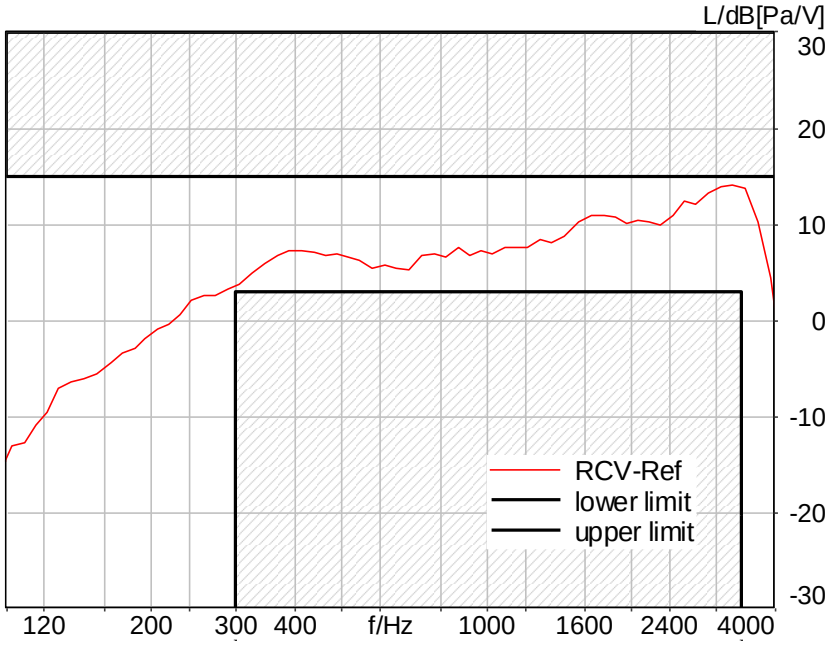

Figure C.2-9 – WCDMA Band V 2N FF Norrowband Frequency Response

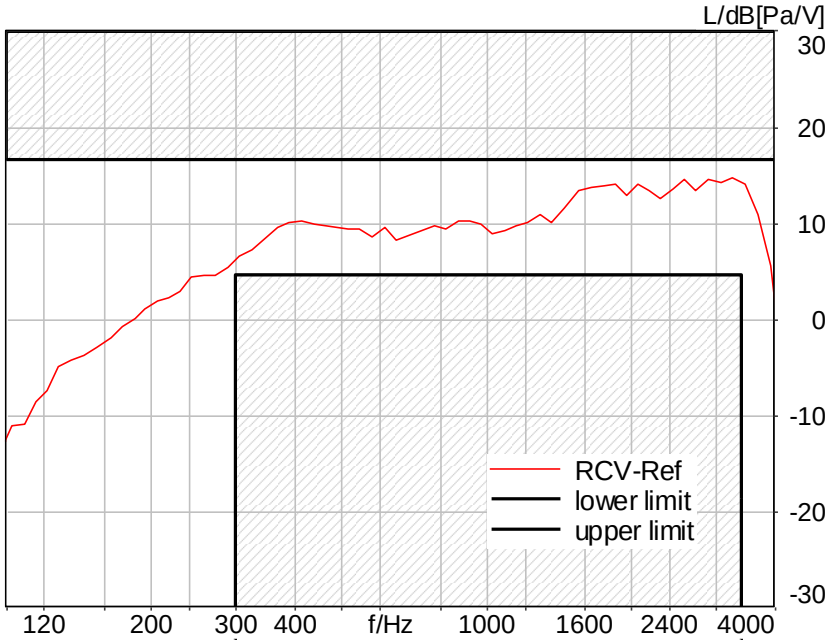

Figure C.2-10 – WCDMA Band V 8N FF Norrowband Frequency Response

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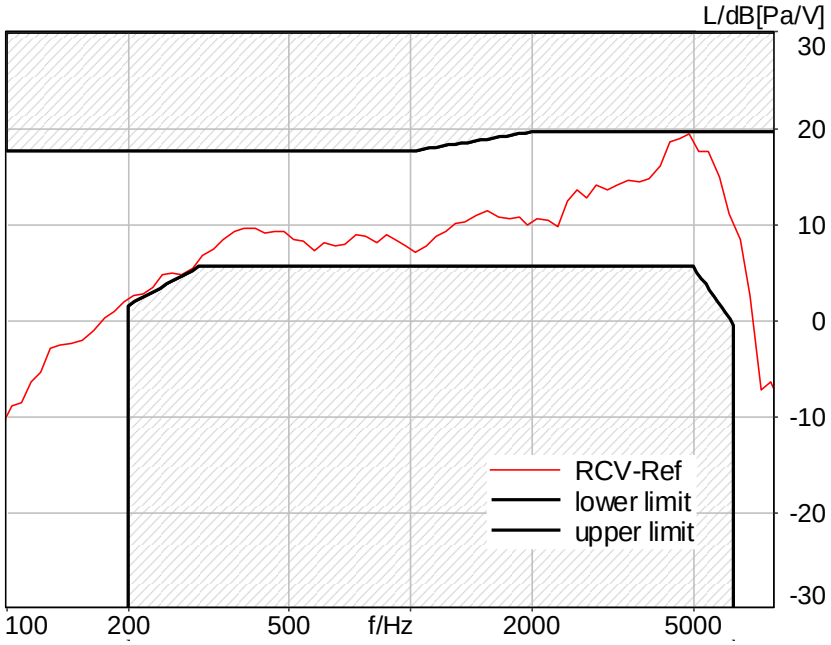

Figure C.2-11 – WCDMA Band V 2N FF Wideband Frequency Response

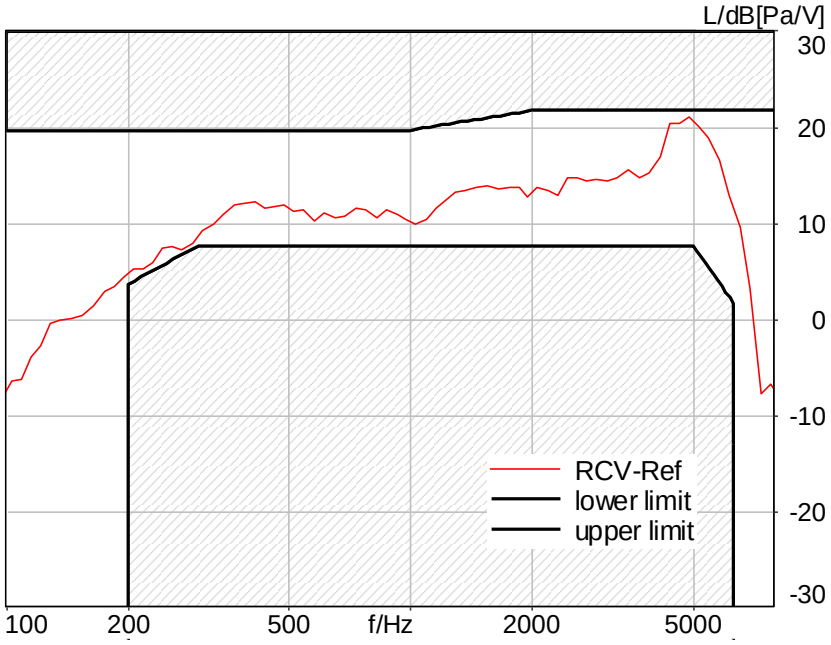

Figure C.2-12 – WCDMA Band V 8N FF Wideband Frequency Response

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C.3. LTE Frequency Response Plots

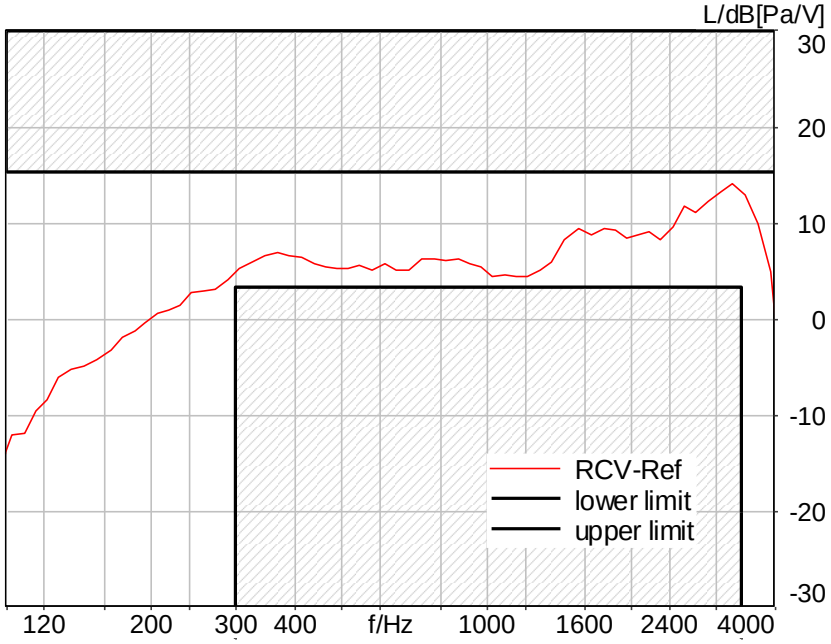

Figure C.3-1 – LTE Band 2 2N FF Norrowband Frequency Response

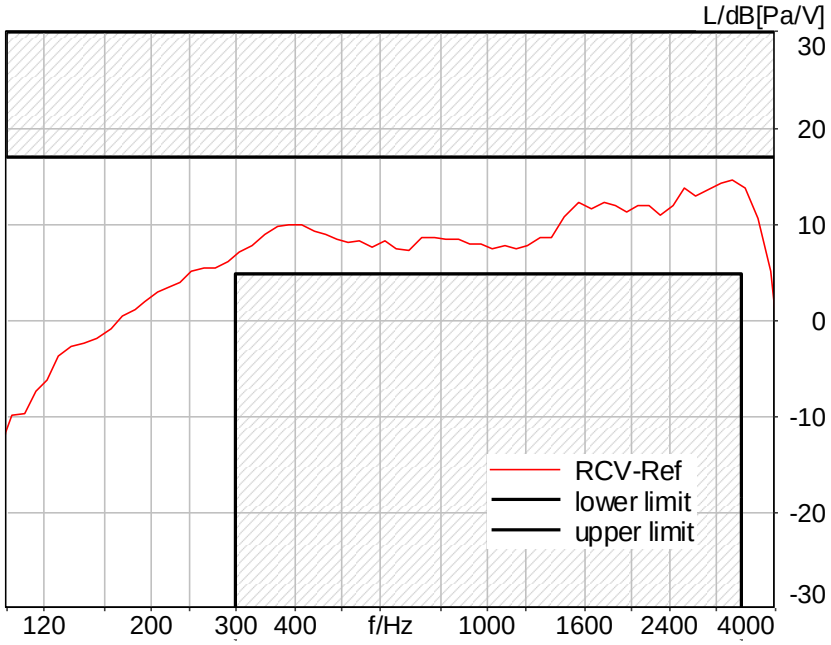

Figure C.3-2 – LTE Band 2 8N FF Norrowband Frequency Response

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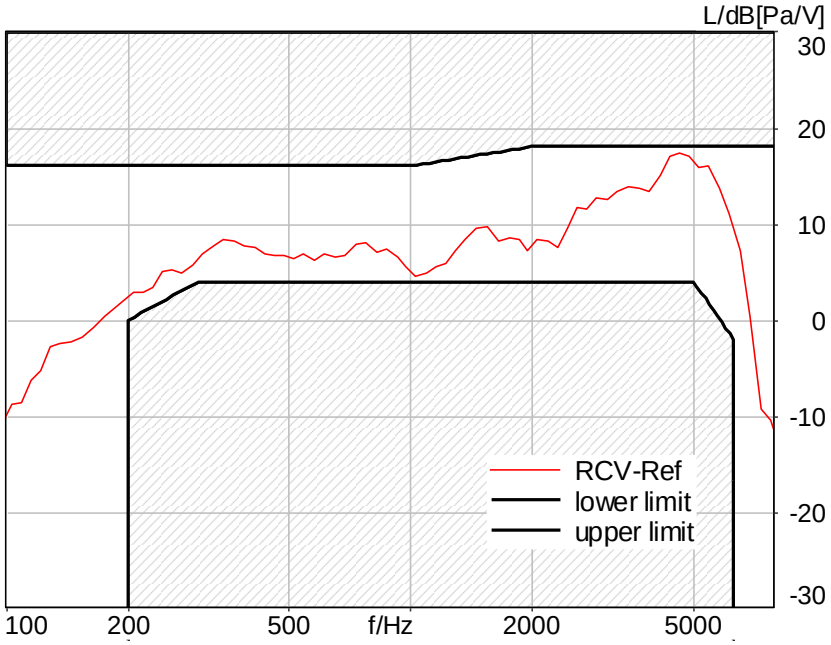

Figure C.3-3 – LTE Band 2 2N FF Wideband Frequency Response

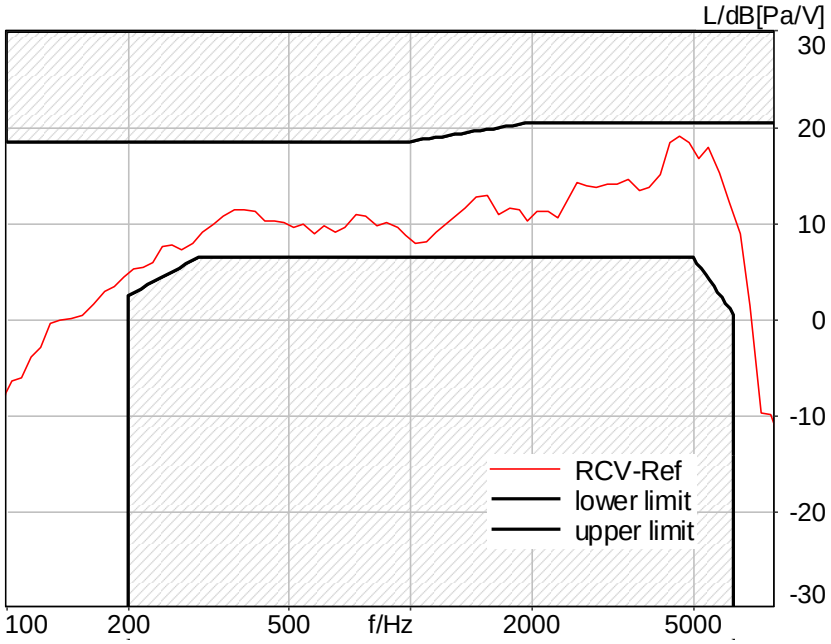

Figure C.3-4 – LTE Band 2 8N FF Wideband Frequency Response

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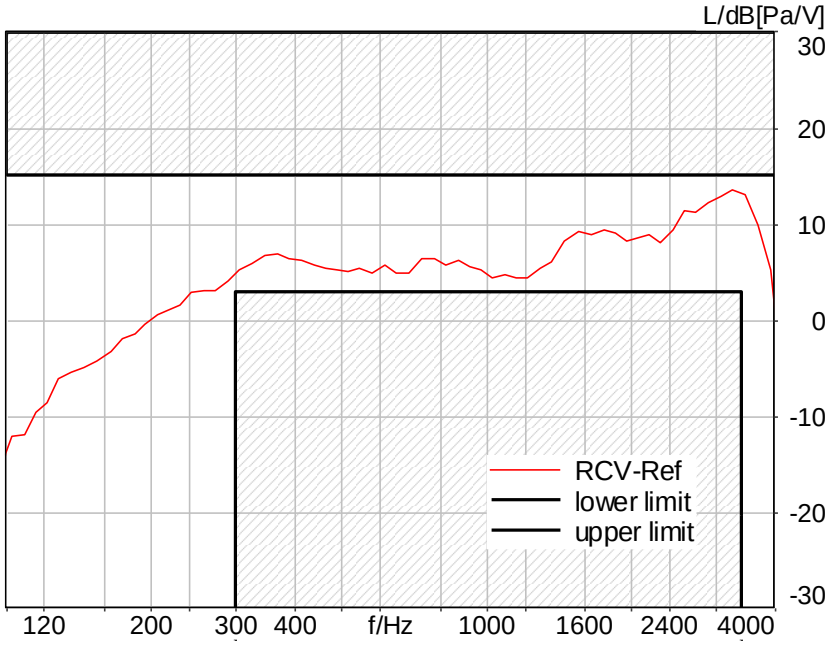

Figure C.3-5 – LTE Band 4 2N FF Norrowband Frequency Response

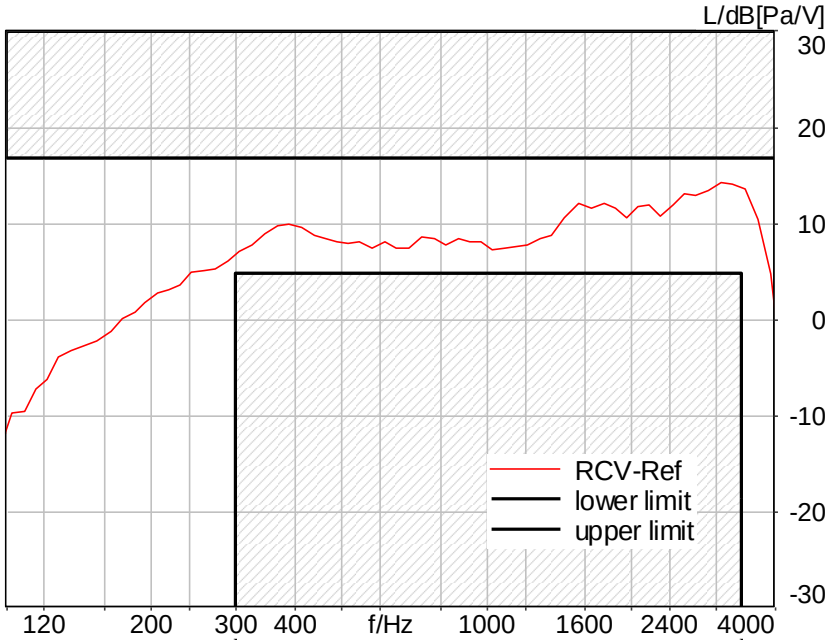

Figure C.3-6 – LTE Band 4 8N FF Norrowband Frequency Response

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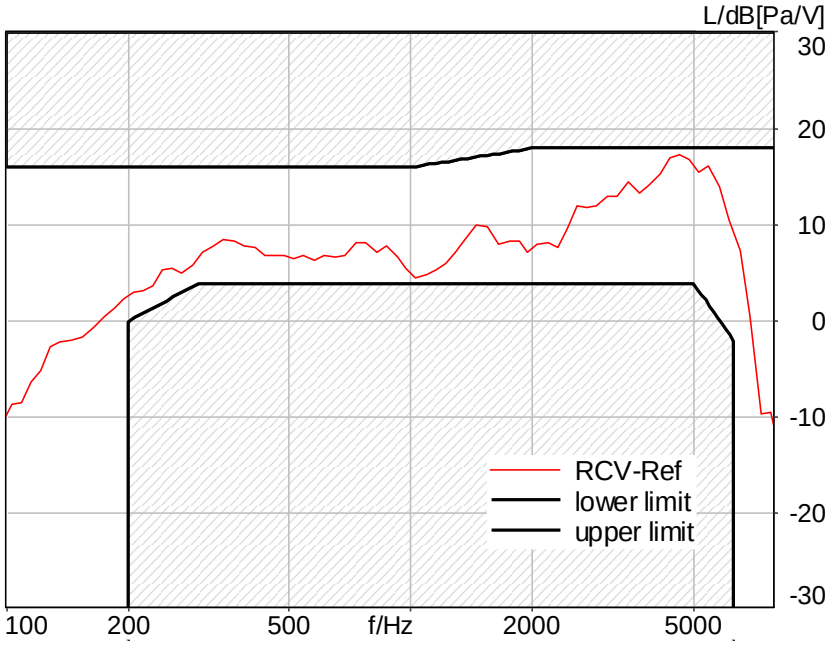

Figure C.3-7 – LTE Band 4 2N FF Wideband Frequency Response

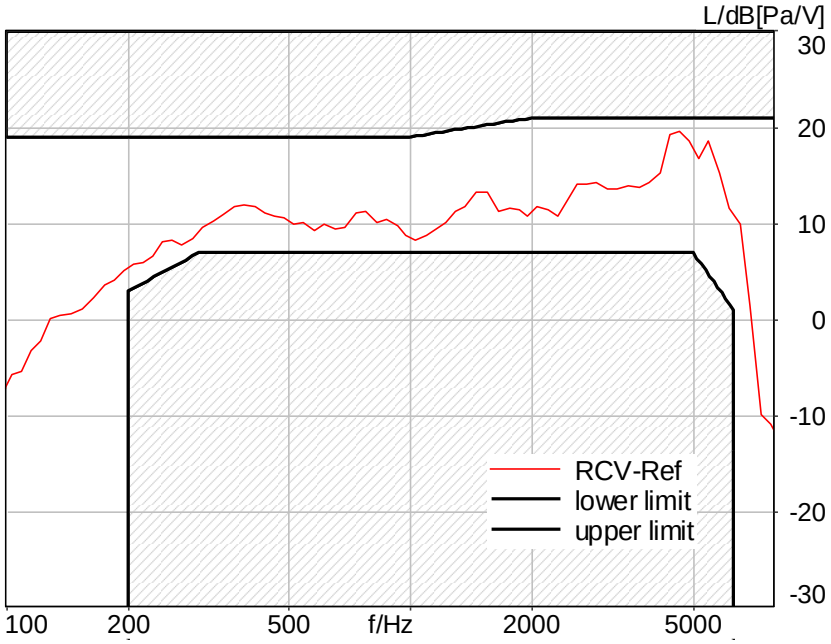

Figure C.3-8 – LTE Band 4 8N FF Wideband Frequency Response

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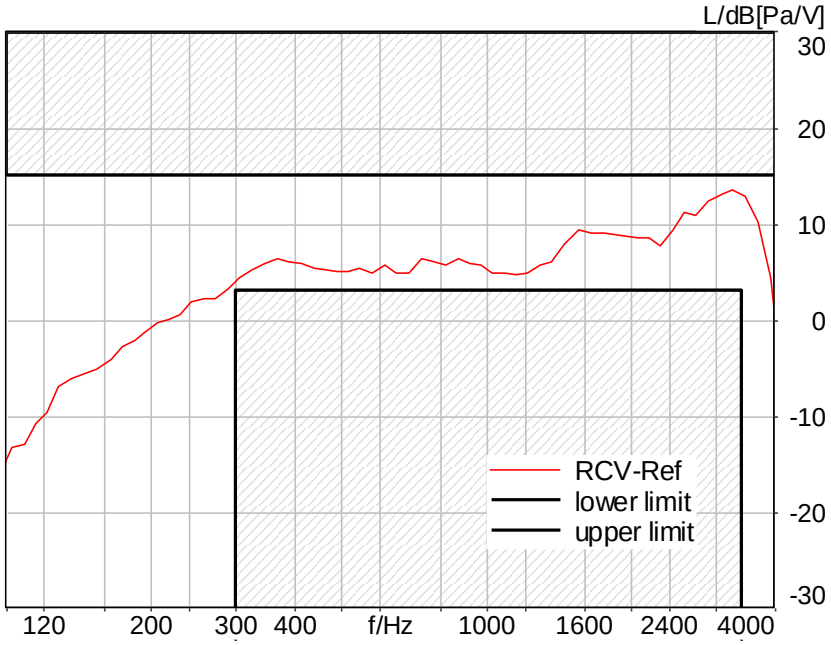

Figure C.3-9 – LTE Band 5 2N FF Norrowband Frequency Response

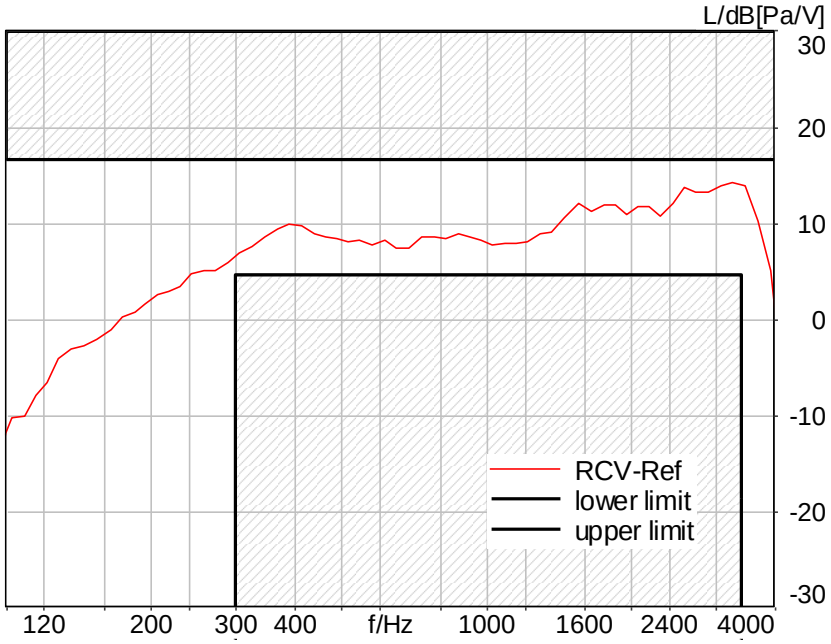

Figure C.3-10 – LTE Band 5 8N FF Norrowband Frequency Response

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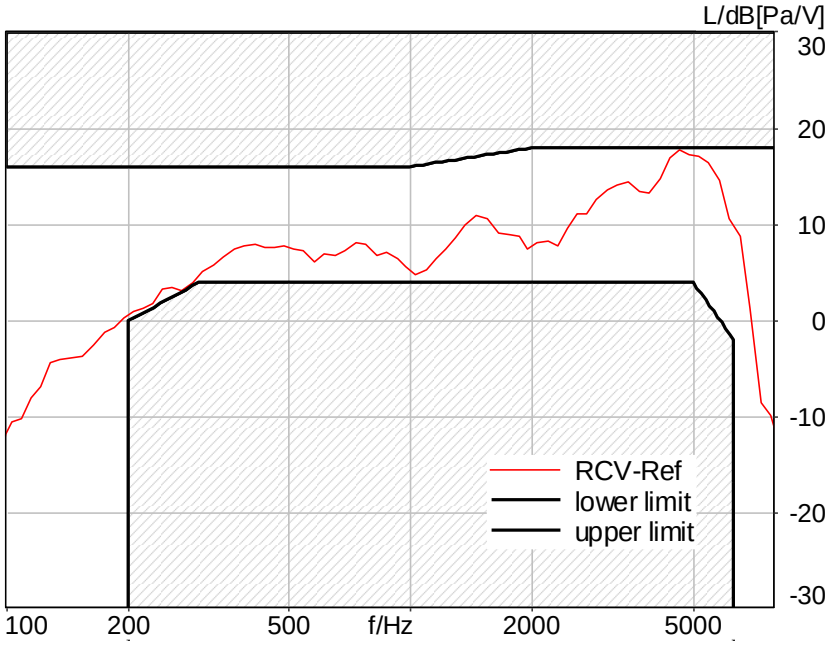

Figure C.3-11 – LTE Band 5 2N FF Wideband Frequency Response

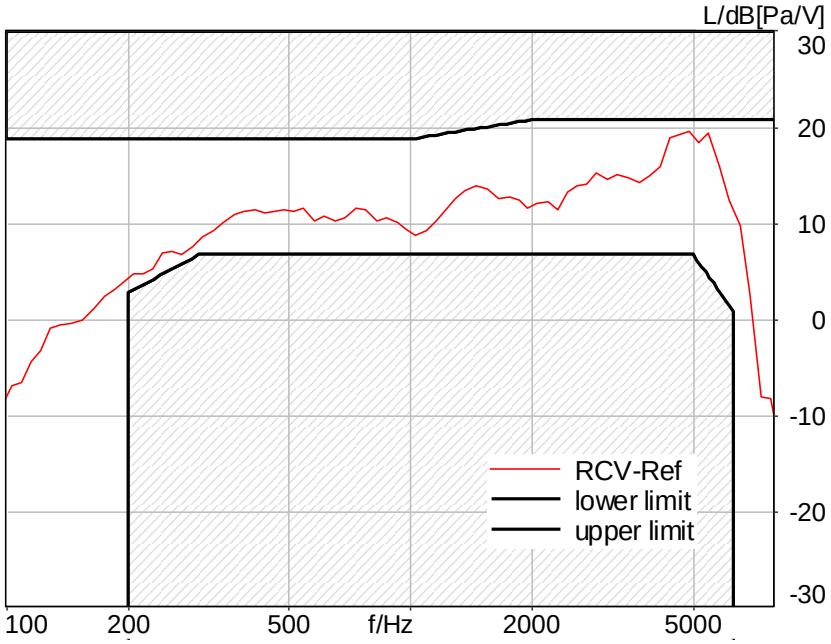

Figure C.3-12 – LTE Band 5 8N FF Wideband Frequency Response

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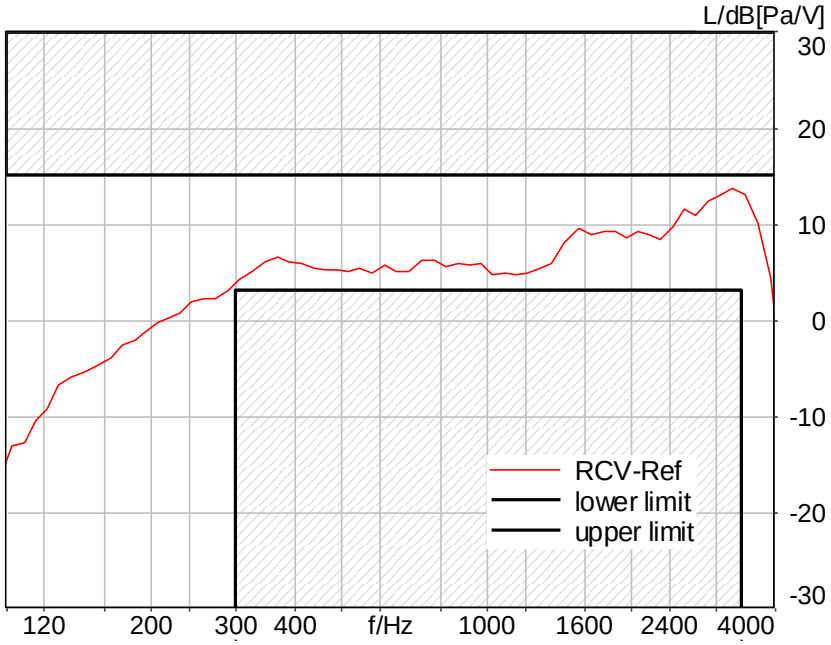

Figure C.3-13 – LTE Band 12 2N FF Norrowband Frequency Response

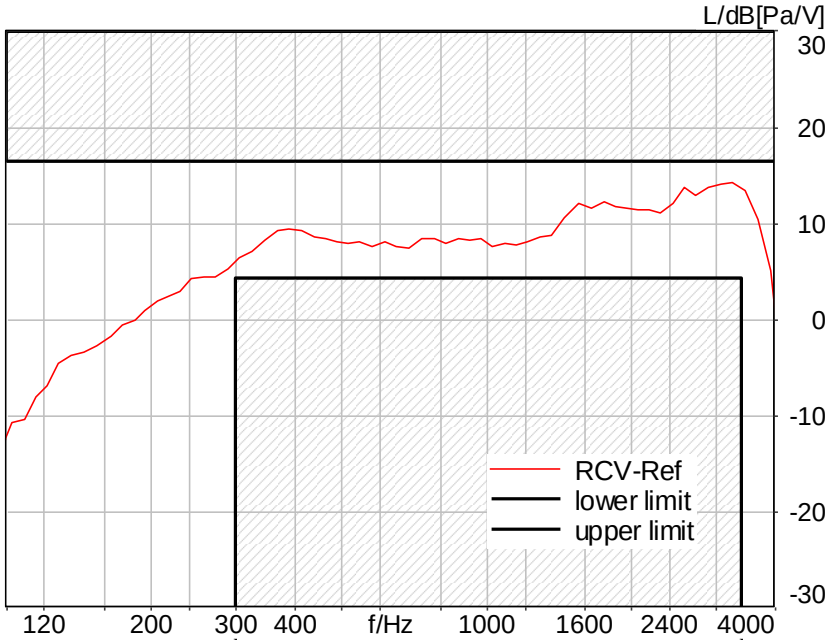

Figure C.3-14 – LTE Band 12 8N FF Norrowband Frequency Response

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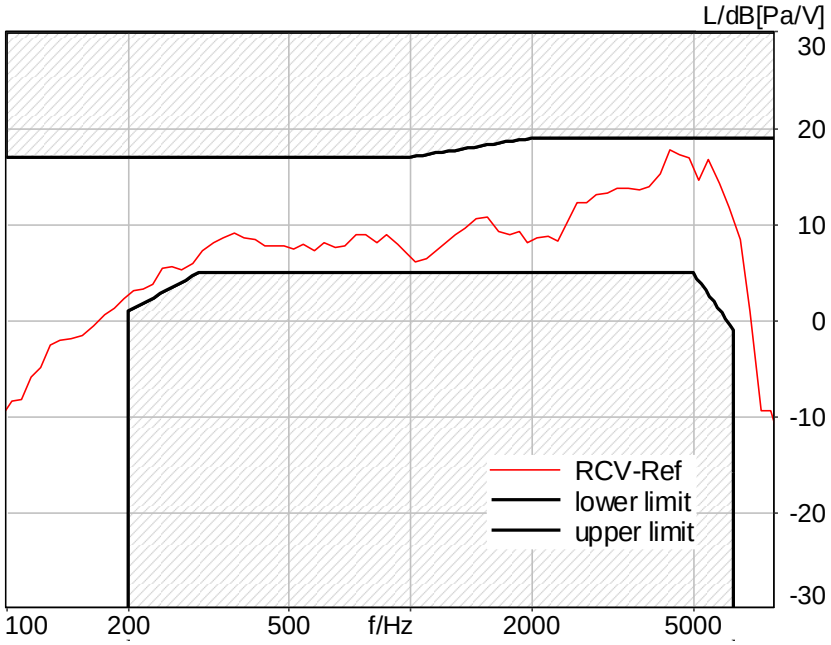

Figure C.3-15 – LTE Band 12 2N FF Wideband Frequency Response

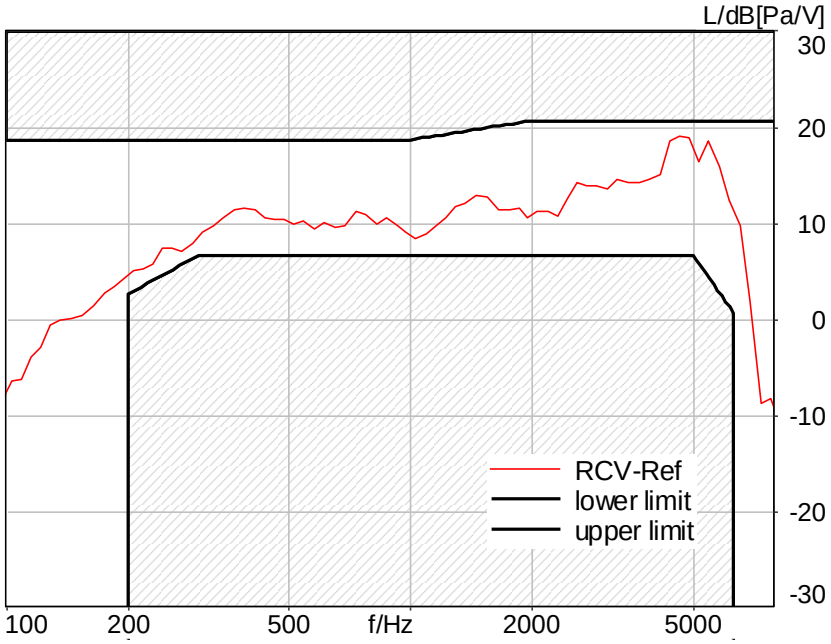

Figure C.3-16 – LTE Band 12 8N FF Wideband Frequency Response

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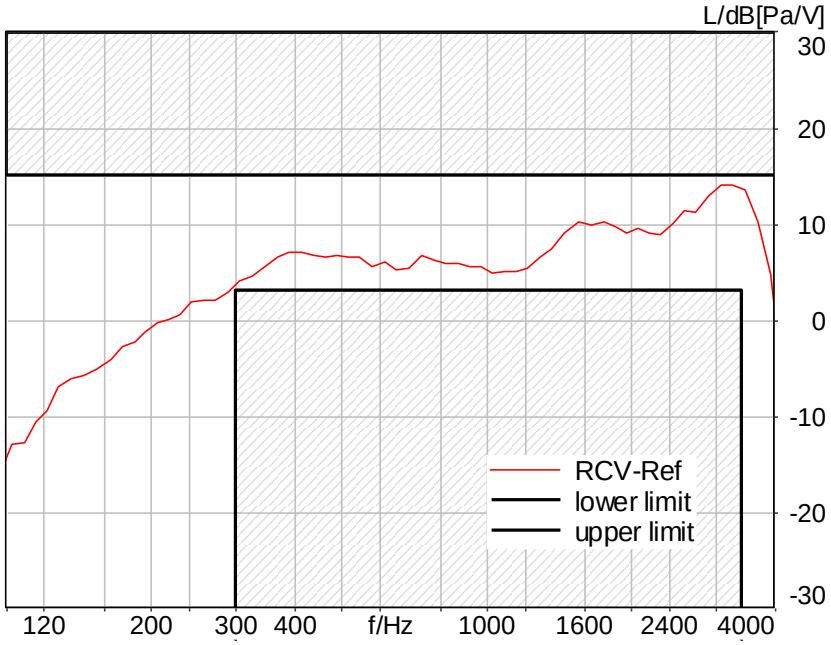

Figure C.3-17 – LTE Band 17 2N FF Norrowband Frequency Response

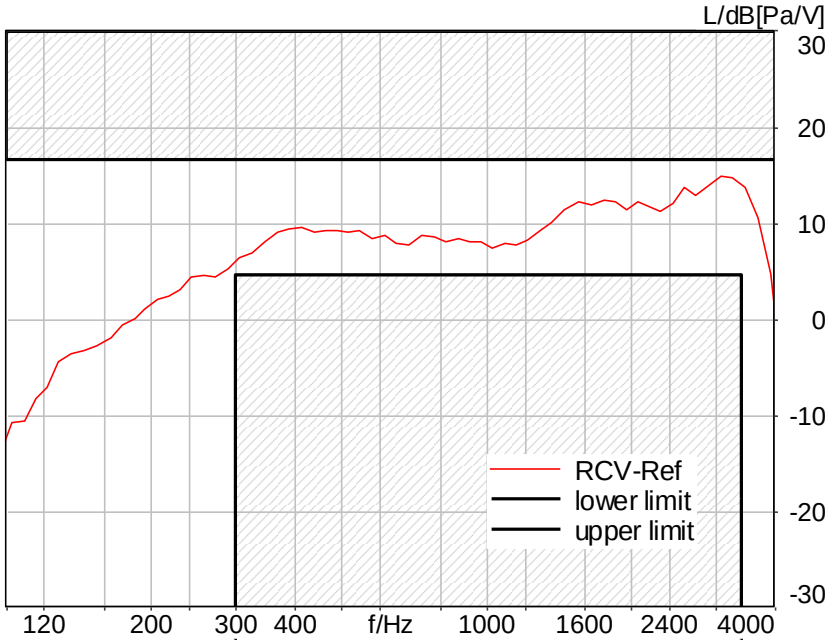

Figure C.3-18 – LTE Band 17 8N FF Norrowband Frequency Response

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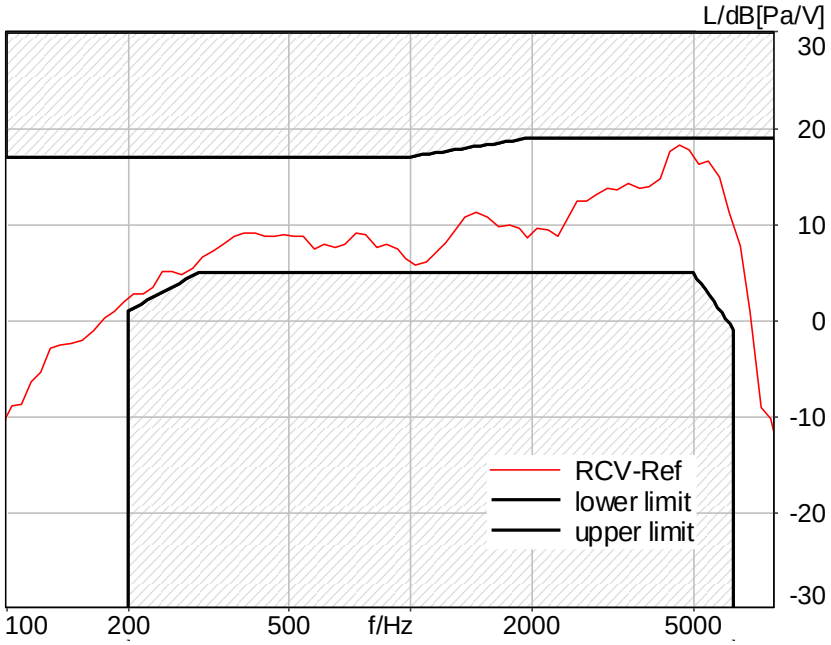

Figure C.3-19 – LTE Band 17 2N FF Wideband Frequency Response

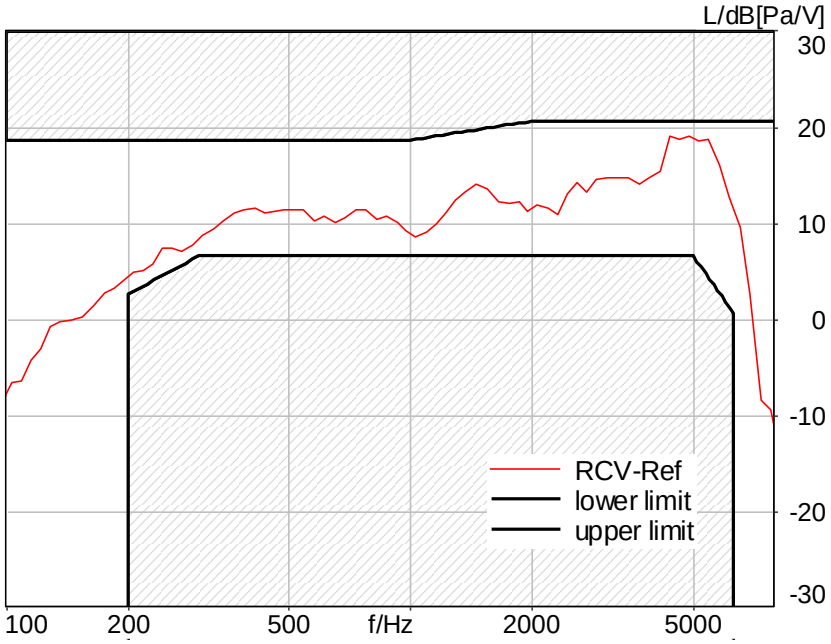

Figure C.3-20 – LTE Band 17 8N FF Wideband Frequency Response

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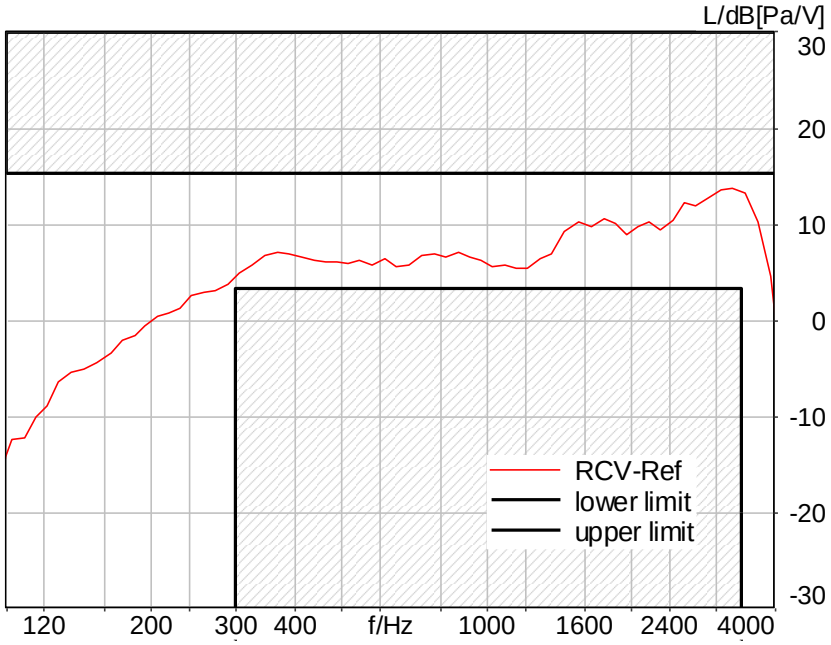

Figure C.3-21 – LTE Band 41 2N FF Norrowband Frequency Response

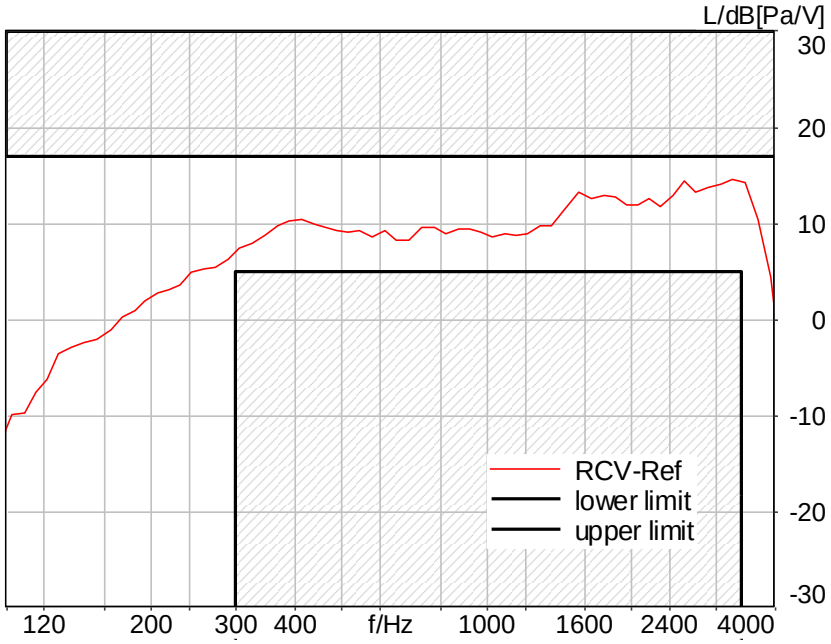

Figure C.3-22 – LTE Band 41 8N FF Norrowband Frequency Response

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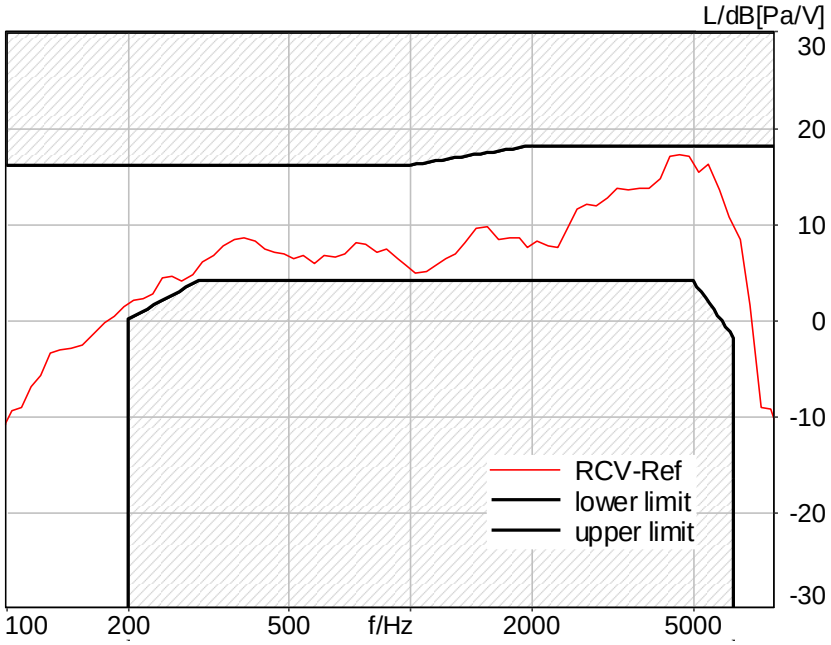

Figure C.3-23 – LTE Band 41 2N FF Wideband Frequency Response

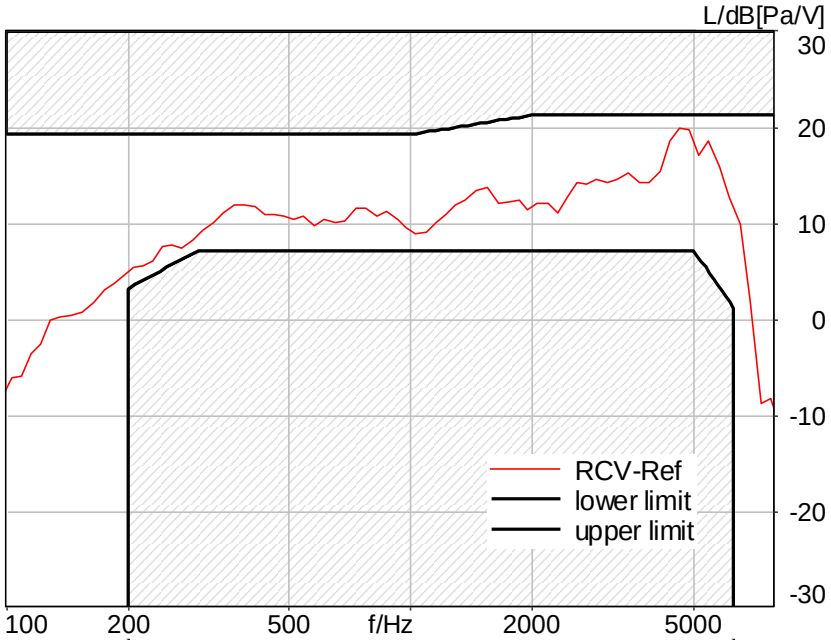

Figure C.3-24 – LTE Band 41 8N FF Wideband Frequency Response

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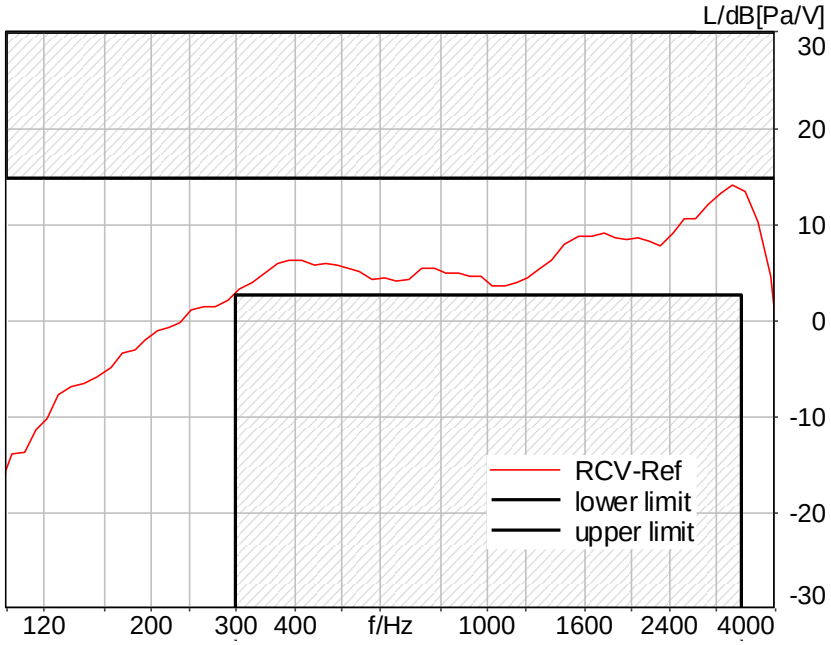

Figure C.3-25 – LTE Band 66 2N FF Norrowband Frequency Response

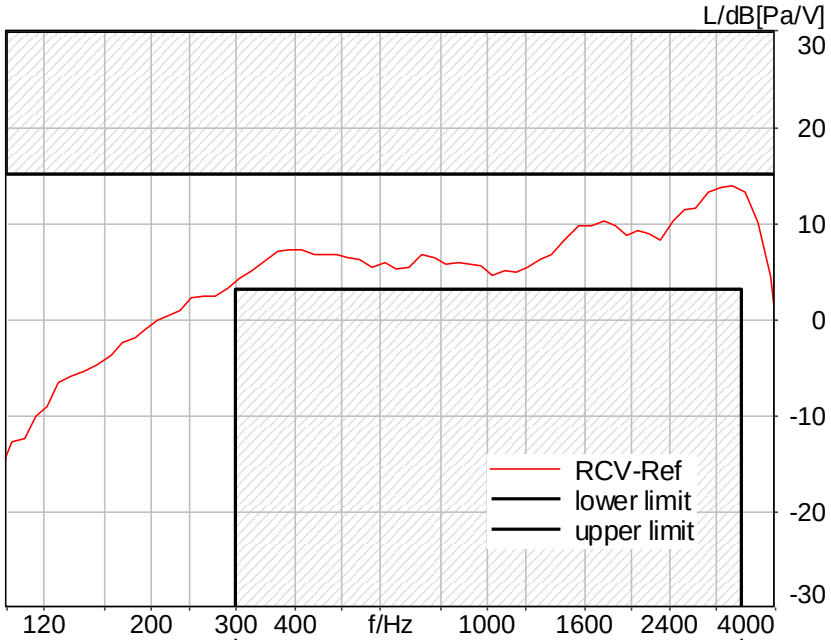

Figure C.3-26 – LTE Band 66 8N FF Norrowband Frequency Response

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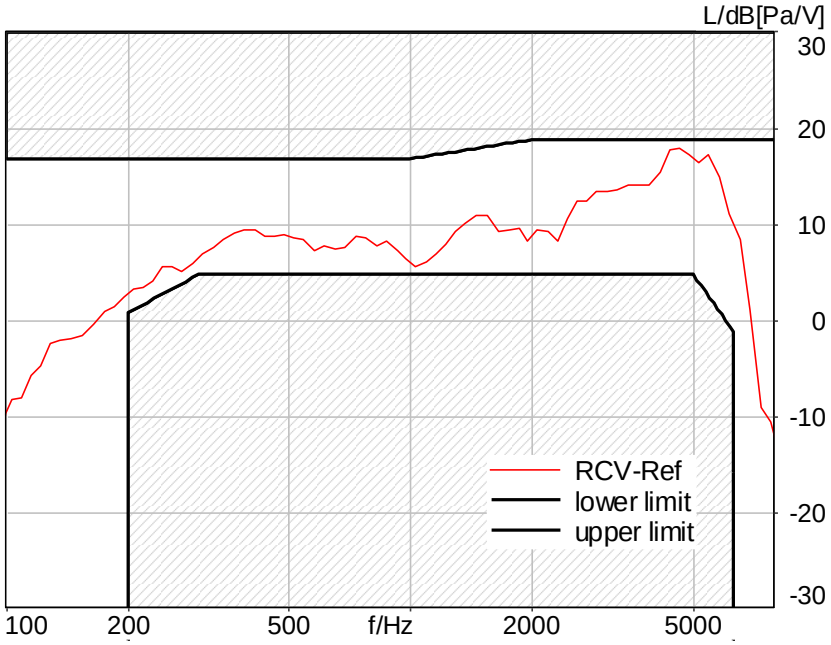

Figure C.3-27 – LTE Band 66 2N FF Wideband Frequency Response

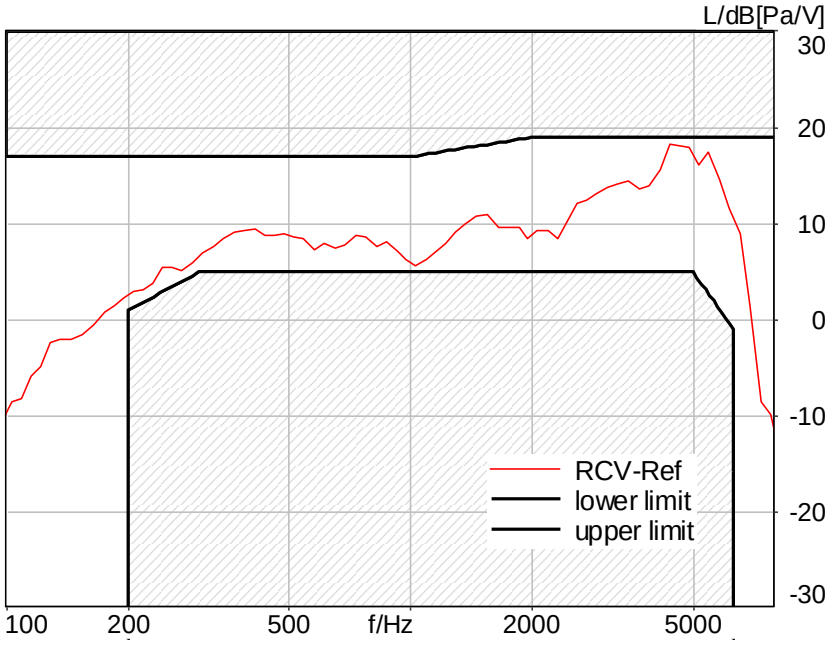

Figure C.3-28 – LTE Band 66 8N FF Wideband Frequency Response

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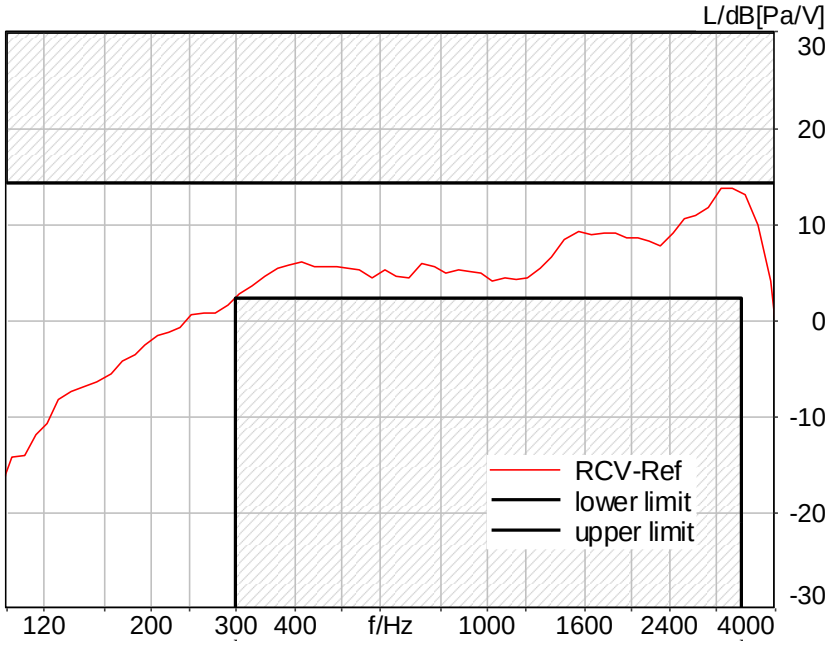

Figure C.3-29 – LTE Band 71 2N FF Norrowband Frequency Response

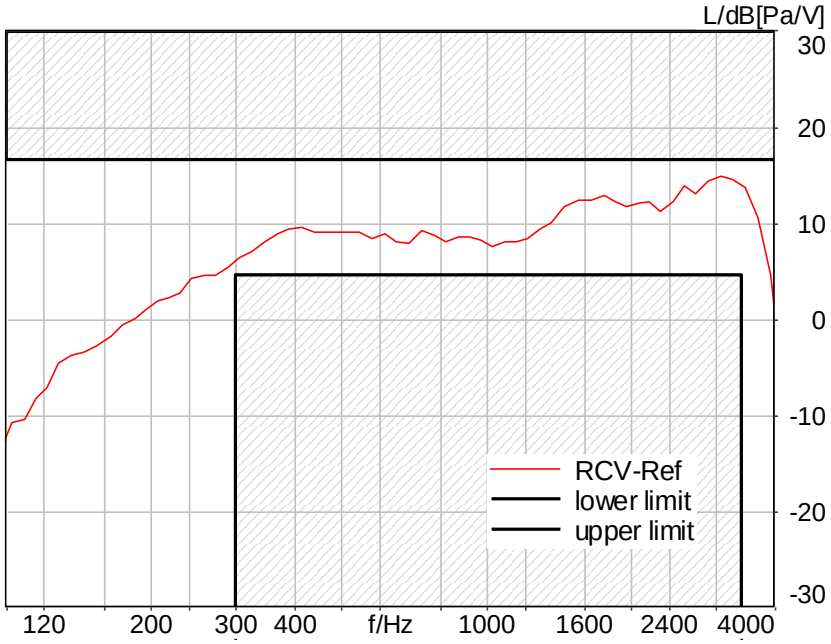

Figure C.3-30 – LTE Band 71 8N FF Norrowband Frequency Response

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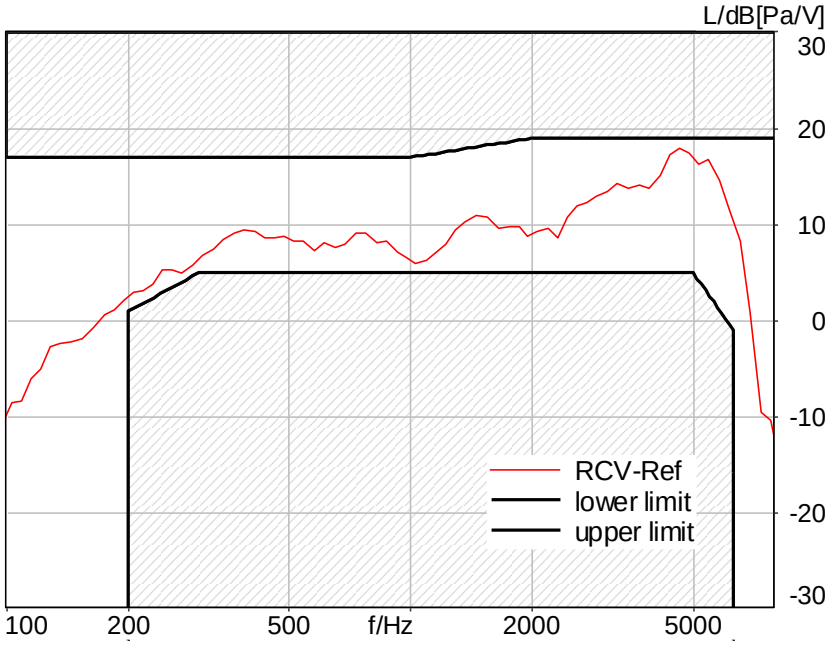

Figure C.3-31 – LTE Band 71 2N FF Wideband Frequency Response

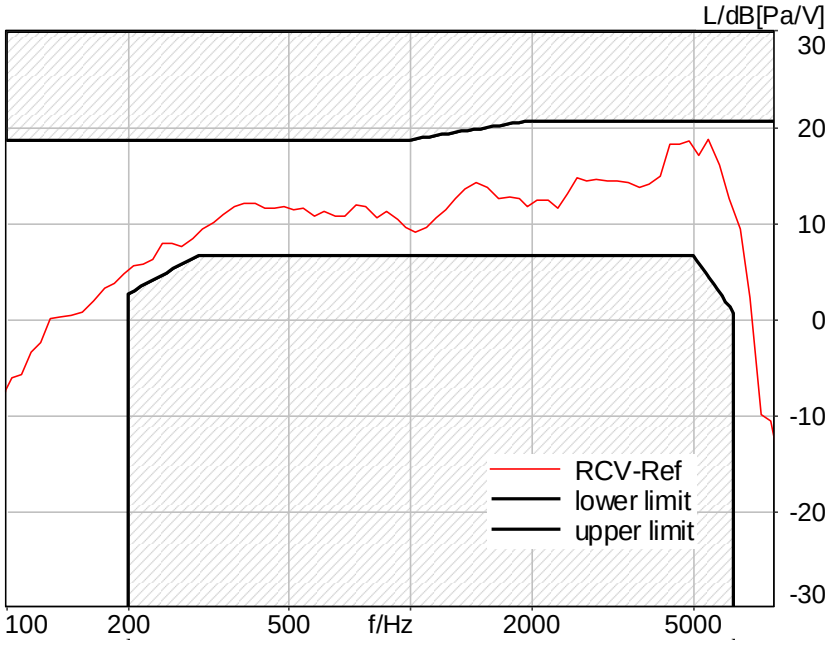

Figure C.3-32 – LTE Band 71 8N FF Wideband Frequency Response

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