



82532
2012

2

I S O 8253-2:2009
Acoustics — Audiometric test methods —
Part 2: Sound field audiometry with pure-tone and narrow-band test signals
(IDT)



2014

1

-

(«8 »)

4.

-

-

» (« »)

« -

2 8

358 « »

3

29 2012 . 1386-

4

8253-2:2009

« . . 2.

» (ISO 8253-2:2009

«Acoustics — Audiometric test methods — Part 2: Sound field audiometry with pure-tone and narrow-band test signals»).

-

-

5 8

1.0—2012 (8).

1

)

«

(

».

».

()

—

«

«

».

,

(gost.ru)

©

, 2014

,

-

-

1	.....	1
2	.....	1
3	.....	2
4	.....	3
5	.....	5
6	.....	6
7	.....	6
	.....	6
9	.....	8
10	.....	8
11	.....	8
12	.....	9
( )	.....	11
()	45° 90*.....	13
( )	.....	14
	.....	15

()

8253-1.

Acoustic». Audiometric test methods. Part 2. Sound field audiometry with pure-tone and narrow-band test signals

— 2013—12—01

1

(—) -
 20 16000 125 8000

2

8

226 (ISO 226. Acoustics — Normal
 equal-loudness-level contours)
 266 (ISO 266. Acoustics — Preferred frequencies)
 389-7 7.
 (ISO 389-7. Acoustics — Reference zero for the calibration of audiometric equipment» Part 7:
 Reference threshold of hearing under free-field and diffuse-field listening conditions)
 8253-1:2010 1. -
 (ISO 8253-1:2010. Acoustics — Audiometric test
 methods — Part 1: Basic pure-tone air and bone conduction threshold audiometry)
 60581-7 7. (IEC 60581-7. High
 fidelity audio equipment and systems — Minimum performance requirements — Part 7: Loudspeakers)
 60645-1 1.
 (IEC 60645-1, Electroacoustics — Audiometric equipment — Part 1: Equipment for
 pure-tone audiometry)
 61672-1 1. (IEC 61672-1.
 Electroacoustics — Sound level meters — Part 1: Specifications)

3			
3.1	(air conduction):		-
3.2	(otologically normal person):		-
3.3	(reference point):		-
3.4	(reference axis):		-
	1 —		-
	2 —		-
3.5	(hearing threshold):		50 %
3.6	(threshold sound pressure level):		-
3.7	(reference threshold sound pressure level):		18
25			-
3.8	(hearing level):		
3.9	(hearing threshold level):		-
3.10	() (carrier frequency of frequency-modulated tone):		
3.11	(frequency deviation):		
3.12	(free sound field):		
3.13	(quasi-free sound field):		
		5.4	
3.14	(diffuse sound field):		-
3.15	(white noise):		
3.16	() (noise bandwidth):		-

3.17 () (centre frequency of a noise band):

3.18 () (functional gain of a hearing aid):

4

4.1

8

4.2

5.2.

266.

60645-1

$\pm 1.5\%$

1 2 60645-1.

4.3

a)

b)

c)

d)

60645-1

266.

$\pm 3\%$

4 20

$\pm 10\%$

5 %

5 %

10%.

4.4

60645-1.

1 —

2 —

4.5

125

3 %

250.500 1000

5 %

60581-7 (10).

1 %,

9

4.6

1

2

60645-1

4.7

4.7.1

5

4.7.2

3

4.7.3

60645-1.

500

6000

0 80

4.8

1

61672-1.

226.

4.3.

1 — 8

45°.

45° 90°.

2 —

),

5

5.1

61672-1.

(.53).

5.2

a)

b)

1 ;

0,15

4000

±2

±1

4000

3

4000

c)

0,15

±1

5.3

a)

0.15

12,5

3

b)

500

5

5

1.

1 —

	1	
	5	5
	4.5	4.5
	4	4
	4	
**		-
		-
>		-
		-

5.4

a)

b)

c)

0.10

±1

6

2.

2.

0

7

8253*1 (4.4. 4.6. 5.1 5.2).

8

8.1

()

1000 , 1000 , 1000

2 —

*1' \	°'. ()	
	<25	250
31.5	52	60
40	44	S3
50	38	46
63	32	41
60	27	36
100	22	32
125	17	25
160	14	18
200	12	12
250	10	10
315	8	6
400	6	6
500	5	5
630	5	5
800	4	4
1000	4	4
1250	4	4
1600	5	5
2000	5	5
2500	3	3
2150	1	1
4000	-1	-1
5000	1	1
6300	6	6
8000	12	12
10000	14	14
12500	15	15

*1 0 - 8 +2 5 82S3-1

> 5

— 8253*1 (6.2—6.4). 125 8000
20—16000 389-7.

8.2

), (-

1 —

2 —

()

8.3

9

7 8

10

8253-1 (9).

5.

11

11.1

- a) ;
 - b) ();
 - c) :
 - d) ();
 - e) ();
 - f) ()
-), 0 ; ()

11.2

8253-1 (10).

11.3

11.2.

12

12.1

- a) —
- b) —
- c) —

12.2

()

12

()

12.3

a)

b)

c)

d)

« »

e)

()

60

f)

)

12.4

a)

b)

c)

d)

)

1 61672-1.

12.5

(5)

()

.1 .2.

.1.

.1—

	X
	$\langle 3 \rangle$
	$\langle * \rangle$

()

45 90

125 12500

45° 90°. 8

45° 90° (

0 .

(3)).

.1 —

	*1	
	45*	90*
125	0.5	1
160	1	1.5
200	1	1.5
250	1	2
315	1.5	2.5
400	2.5	3.5
500	3	4.5
630	3.5	5
800	3.5	5
1000	4	5.5
1250	4	6
1500	3.5	5
1600	3.5	4.5
2000	3	2
2500	3.5	2
3000	5	2.5
3150	5	2
4000	4	-0.5
5000	6	4
6000	7.5	9.5
6300	7.5	10
8000	5.5	8.5
10000	4.5	6
12500	1.5	

➤

0.5

()

.1

226		226—2009 « . »	-
266		-1)	
389-7		389-7—2011 « . . 7. »	-
389-6		389-5—2011 « . . 5. 16 »	- 8
8253-1:2010		82S3-1—2012 . 1. »	-
60581-7		.	
60645-1:2001		.	
61672-1		53186.1—2008 (61672-1:2002) « . 1. »	-
12090—80 « . ».			
*		.	-
		— 8	-
• —		:	
• MOD —		:	

- (1) ARLINGER. S.D.. JERLVALL. L.8. Reliability In warble tone sound field audiometry. Scand. Audio!. 1987. 16. pp. 21—27
- (2) MORGAN. O.E.. DIRKS. D.D.. BOWER. O.R. Suggested threshold sound pressure levels for frequencymodulated (warble) tones in the sound field. J. Speech Hear. Disord. 1979. 44. pp. 37—54
- (3) SHAW. E.A.G.. VAILLANCOURT. M M. Transformation of sound pressure level from the free field to the eardrum presented in numerical form. J. Acoust. Soc. Am. 1985. 78. pp. 1120—23
- (4) WALKER. G.. DILLON. H.. BYRNE. D. Sound field audiometry: Recommended stimuli and procedures. Eer Hear. 1984. S.pp. 13—21

8253-2—2012

534.7:612.85:006.354

13.140

34

: , , , , -

*
*
.

02.07.2014.

30.07.2014.

60 * 84^.

. . . 2.32. .- . . t.80. 74 . « 2797.

«
www.goslinlo.tu

». 123395
info^gostinfo.iu

., 4.