

Client Details, Audiogram Data & Calculation Settings

Name	G.Cox [Example 1]
Gender	Male
Date of Birth	30/11/1958
Date of Audiogram	17/08/2017
Age at Date of Audiogram	58
Source of Audiogram	Graham Cox
Reason for Audiogram	Screening
TDH39 Headphones	No
Pass One Test	Logarithmic
Anchor Points	1 and 8
Bekesey Correction	No
Rinne Test - Left Ear	No
Rinne Test - Right Ear	No
Webber Test	No
Tinnitus	No
Ambient Noise Level > 35dB	No
Selected Percentile	R: [Pass 1 = 13th] [Pass 2 = 24th] L: [Pass 1 = 10th] [Pass 2 = 17th]
Date of Calculation	08/09/2017 - 00:21
Calculation Type	2017
Notes/Ref	Default

HTL Readings

	0.25 kHz	0.5 kHz	1 kHz	2 kHz	3 kHz	4 kHz	6 kHz	8 kHz
Right Ear (dB)	15	20	20	20	35	60	50	50
Left Ear (dB)	20	20	15	30	40	60	60	60



All calculations are performed using complete data to avoid rounding 'errors' and achieve accuracy.

The numbers displayed in the results that follow are rounded after the calculation for display purposes only.

Any numbers with a * indicate they have been modified for TDH39 Headphone usage.

Right Ear

	0.25 kHz	0.5 kHz	1 kHz	2 kHz	3 kHz	4 kHz	6 kHz	8 kHz
Pass One								
Hearing threshold levels (dB)	15	20	20	20	35	60	50	50
HTL at selected anchor points (dB)			20.0					50.0
Selected AAHL statistic [13th percentile Male 58 Years] (dB)	12.2	13.7	17.7	25.9	32.3	37.9	46.4	53.0
Misfit Values (dB)			2.3					-3.0
Interpolated misfit values (dB)			2.3	0.5	-0.4	-1.3	-2.1	-3.0
Adjusted AAHL values (dB)			20.0	26.4	31.9	36.6	44.3	50.0
Bulge (dB)			0	-6	3	23	6	0
Pass Two								
Modified HTL at anchor points (dB)			16.5					40.6
Selected AAHL statistic [24th percentile Male 58 Years] (dB)	9.4	10.6	13.7	20.3	25.7	30.5	37.7	43.3
Misfit Values (dB)			2.8					-2.7
Interpolated misfit values (dB)			2.8	1.0	0.1	-0.9	-1.7	-2.7
Modified AAHL values (dB)			16.5	21.3	25.8	29.6	36.0	40.6
Modified Bulge (dB)			4	0	9	30	14	9

Left Ear

	0.25 kHz	0.5 kHz	1 kHz	2 kHz	3 kHz	4 kHz	6 kHz	8 kHz
Pass One								
Hearing threshold levels (dB)	20	20	15	30	40	60	60	60
HTL at selected anchor points (dB)			15.0					60.0
Selected AAHL statistic [10th percentile Male 58 Years] (dB)	13.2	14.8	19.1	27.8	34.6	40.5	49.5	56.5
Misfit Values (dB)			-4.1					3.5
Interpolated misfit values (dB)			-4.1	-1.6	-0.3	1.0	2.2	3.5
Adjusted AAHL values (dB)			15.0	26.2	34.3	41.5	51.7	60.0
Bulge (dB)			0	4	6	18	8	0
Pass Two								
Modified HTL at anchor points (dB)			12.2					52.6
Selected AAHL statistic [17th percentile Male 58 Years] (dB)	11.1	12.4	16.0	23.6	29.6	34.8	42.8	49.0
Misfit Values (dB)			-3.8					3.6
Interpolated misfit values (dB)			-3.8	-1.4	-0.1	1.2	2.3	3.6
Modified AAHL values (dB)			12.2	22.2	29.5	36.0	45.2	52.6
Modified Bulge (dB)			3	8	11	24	15	7

Average of Readings

	1, 2, 3 kHz	1, 2, 4 kHz
Right Ear (dB)	25.0	33.3
Left Ear (dB)	28.3	35.0
Worse Ear	Left	Left

Binaural Calculation

	1, 2, 3 kHz	1, 2, 4 kHz
Better ear on average	Right	Right
Average in better ear (dB)	25.0	33.3
Better ear average x 4 (dB)	100.0	133.3
Better ear x4 + worse ear (dB)	128.3	168.3
Better ear x4 + worse ear /5 (dB)	25.7	33.7
Binaural Hearing Loss [BHL] (dB)	25.67	33.67

AAHL Calculation [10th percentile Male 58 Years]

	1, 2, 3 kHz	1, 2, 4 kHz
AAHL at 1kHz (dB)	19.1	19.1
AAHL at 2kHz (dB)	27.8	27.8
AAHL at 3 or 4kHz (dB)	34.6	40.5
Average for Age (dB)	27.2	29.2
Age Associated Hearing Loss [AAHL] (dB)	27.20	29.17

NIHL Calculation

	1, 2, 3 kHz	1, 2, 4 kHz
BHL (dB)	25.7	33.7
AAHL (dB)	27.2	29.2
BHL - AAHL (dB)	-1.5	4.5
Noise Induced Hearing Loss [NIHL] (dB)	-1.53	4.50

Quantum Method [LCB 2016]

	1, 2, 3 kHz	1, 2, 4 kHz
Bulge derived NIHL averaged Right Ear (dB)	4.2	11.3
Bulge derived NIHL averaged Left Ear (dB)	7.0	11.5
Binaural Hearing Loss (dB)	4.79	11.35

DHSS Method [10th percentile Male 58 Years]

	1,2,3 kHz	1,2,4 kHz
Sum of AAHL levels (dB)	81.6	87.5
Average of above (dB)	27.2	29.2
Average Hearing Level in Right Ear (dB)	25.0	33.3
Average Hearing Level in Left Ear (dB)	28.3	35.0
Binaural Hearing Level (dB)	25.7	33.7
Binaural Hearing Level Deficit (dB)	-1.53	4.50

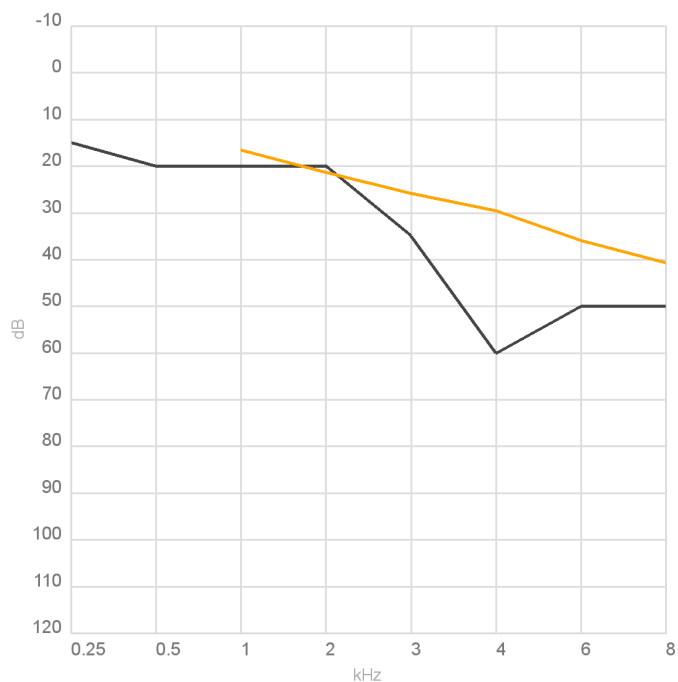
DHSS Method [24th percentile Male 58 Years]

	1,2,3 kHz	1,2,4 kHz
Sum of AAHL levels (dB)	59.7	64.4
Average of above (dB)	19.9	21.5
Average Hearing Level in Right Ear (dB)	25.0	33.3
Average Hearing Level in Left Ear (dB)	28.3	35.0
Binaural Hearing Level (dB)	25.7	33.7
Binaural Hearing Level Deficit (dB)	5.76	12.19

Summary of Methods [Comparison of LCB 2016 & DHSS]

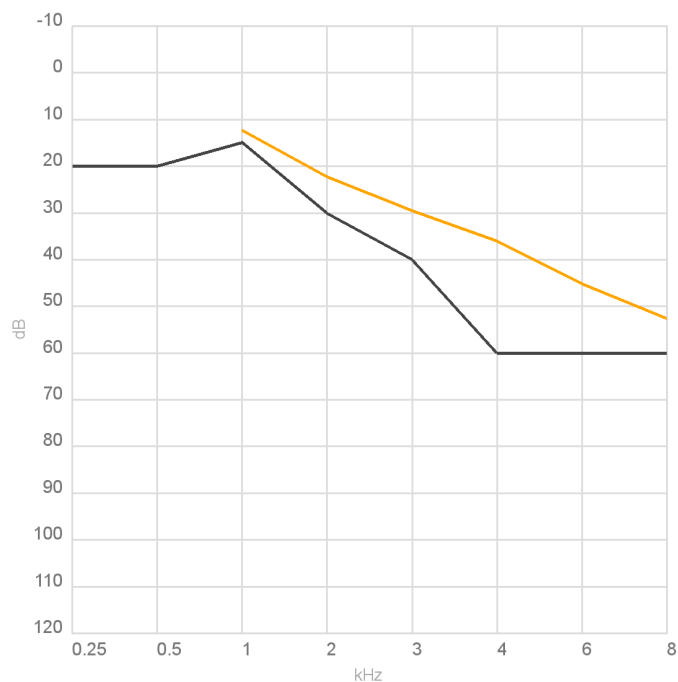
	1, 2, 3 kHz	1, 2, 4 kHz
Quantum (dB)	4.8	11.3
DHSS [10th percentile Male 58 Years] (dB)	-1.5	4.5
Average [10th percentile Male 58 Years] (dB)	1.63	7.92
DHSS [24th percentile Male 58 Years] (dB)	5.8	12.2
Average [24th percentile Male 58 Years] (dB)	5.28	11.77

Right Ear



0.25 kHz	0.5 kHz	1 kHz	2 kHz	3 kHz	4 kHz	6 kHz	8 kHz
• HTL Readings (dB)							
15	20	20	20	35	60	50	50
• Modified AAHL Value (dB)							
		16.5	21.3	25.8	29.6	36.0	40.6

Left Ear



0.25 kHz	0.5 kHz	1 kHz	2 kHz	3 kHz	4 kHz	6 kHz	8 kHz
• HTL Readings (dB)							
20	20	15	30	40	60	60	60
• Modified AAHL Value (dB)							
		12.2	22.2	29.5	36.0	45.2	52.6

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