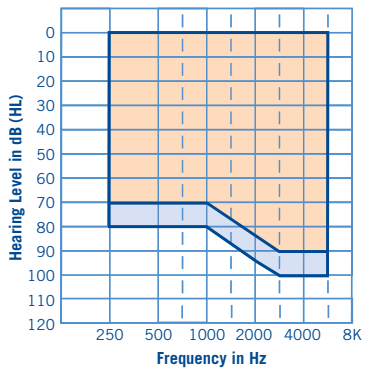


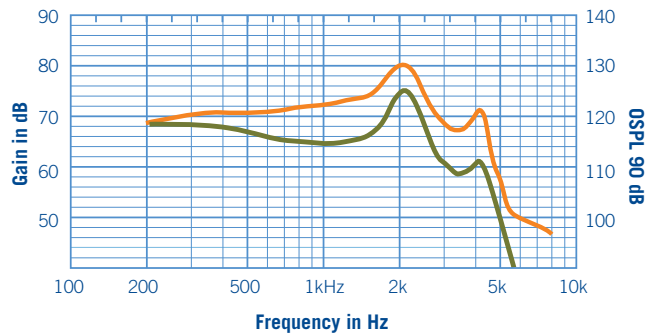
## Radius Custom ANSI/IEC Data and Fitting Ranges

Measurement	CIC (COMPLETELY- IN-THE-CANAL)		ITC (IN-THE-CANAL)		ITE (IN-THE-EAR)	
	ANSI	IEC	ANSI	IEC	ANSI	IEC
PEAK OSPL 90 (DB SPL)	110 - 113	119 - 122	110 - 115	119 - 124	113 - 120	123 - 130
HFA OSPL 90 (DB SPL)	101 - 105	NA	101 - 108	NA	104 - 110	NA
RTF OSPL 90 (DB SPL)	NA	109 - 113	NA	110 - 116	NA	113 - 121
PEAK GAIN (DB)	30 - 50	40 - 60	30 - 50	40 - 60	30 - 55	39 - 63
HFA FULL ON GAIN (DB)	22 - 42	NA	22 - 45	NA	24 - 48	NA
RTF FULL ON GAIN (DB)	NA	31 - 51	NA	31 - 55	NA	31 - 57
<b>Frequency Range (Hz)</b>	200 - 7000	NA	200 - 7000	NA	200 - 6000	NA
REFERENCE TEST FREQUENCY (KHZ)	1.0, 1.6, 2.5	1.6	1.0, 1.6, 2.5	1.6	1.0, 1.6, 2.5	1.6
REFERENCE TEST GAIN (DB)	22 - 28	24 - 38	22 - 31	24 - 41	24 - 33	24 - 46
<b>Harmonic Distortion</b>						
500 HZ	< 3	< 3	< 3	< 3	< 3	< 3
800 HZ	< 3	< 3	< 3	< 3	< 3	< 3
1600 HZ	< 3	< 3	< 3	< 3	< 3	< 3
<b>Equivalent Input Noise (dB SPL)</b>	< 28	< 28	< 28	< 28	< 28	< 28
<b>(55 – 90 ANSI)(55 – 80 IEC) –Test Mode</b>						
ATTACK TIME (MS)	5	5	5	5	5	5
RELEASE TIME 0.1 - S (MS)	5 - 150	5 - 250	5 - 150	5 - 250	5 - 150	5 - 250
RELEASE TIME 2.0 - S (MS)	5 - 150	5 - 250	5 - 150	5 - 250	5 - 150	5 - 250
<b>Induction Coil Sensitivity</b>						
HFA SPLITS (ANSI - 96) (DB SPL)	NA	NA	89 - 98	NA	90 - 99	NA
MASL (IEC 118 - 1) (DB SPL)	NA	NA	NA	63 - 85	NA	63 - 88
BATTERY CURRENT (MA)	1.1 - 1.5	1.1 - 1.5	1.1 - 1.5	1.1 - 1.5	1.1 - 1.5	1.1 - 1.5
IDLE (MA)	1.0 - 1.2	1.0 - 1.2	1.0 - 1.2	1.0 - 1.2	1.0 - 1.2	1.0 - 1.2
<b>Estimated Battery Life for 16-Hour Day</b>						
13 ZINC AIR (DAYS)	NA	NA	NA	NA	12 - 16	12 - 16
312 ZINC AIR (DAYS)	NA	NA	6 - 9	6 - 9	6 - 9	6 - 9
10A ZINC AIR (DAYS)	3 - 5	3 - 5	3 - 5	3 - 5	NA	NA

## Radius 16, 12, 8, 4, 2 Custom



Radius 16, 12, 8, 4 and 2 ITE (blue) and ITC, CIC (orange) fitting ranges.



OSPL90 (orange) and Full On Gain (green) curves for the Radius 12 ITE at the highest fitting matrix of 120/55.

### Measurement Conditions and Recommendations

The data for Radius are obtained and performance is expressed according to ANSI S3.22 (1996), *Specifications of Hearing Aid Characteristics* and IEC 118-0 (1983), *Hearing aids, Part 0: Measurement of electroacoustical characteristics and Amendment 1* (1994-01). The Micro-Tech proprietary Real Time Analyzer comprises the basic test equipment. Data may be subject to change with product refinement.

Radius hearing instruments may be set to Test Mode within Inspire OS by reading the hearing aid and choosing Test Mode, Set To Full On from the Tools drop down menu. Because of the adaptive signal processing capabilities of Radius hearing instruments, you must be in Test Mode to compare the actual performance of the hearing instrument with these specifications.

**RF IMMUNITY LEVEL.** Radius custom hearing aids have a cell phone immunity rating of M2 or M2/T2. A hearing aid compatible cell phone must carry a rating of M3/T3 or higher to work with these hearing instruments. Please consult your cell phone specification for the cell phone immunity rating.