

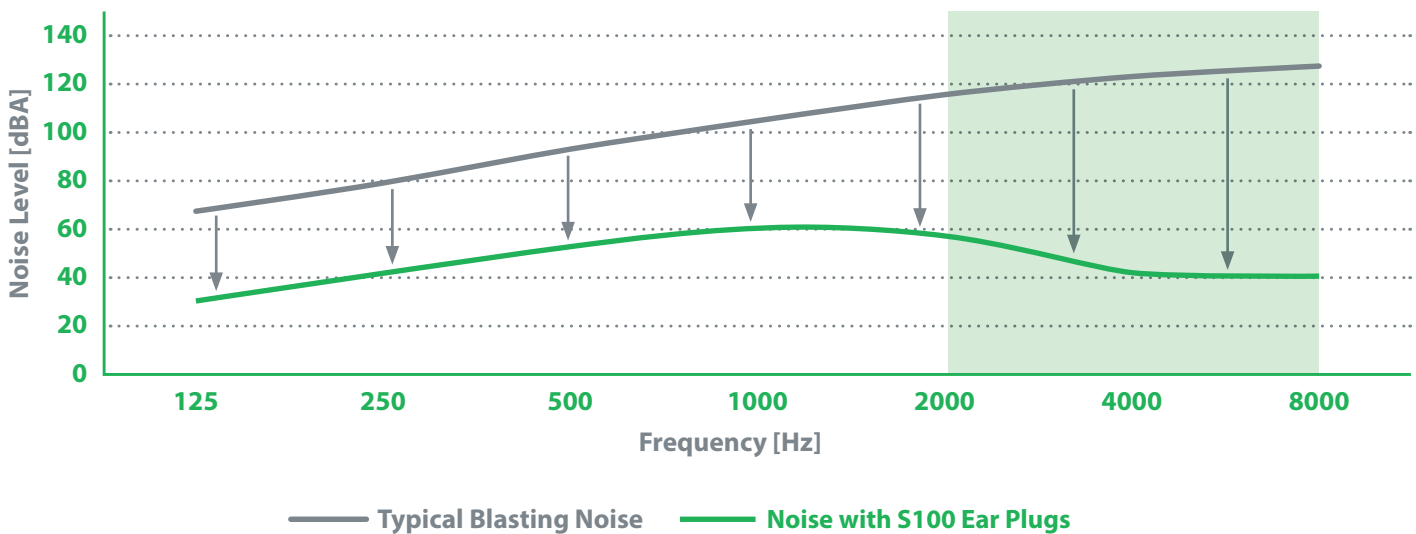
EXPLANATION OF NRR TESTING

ISO9001
CERTIFIED COMPANY

A Noise Reduction Rating (NRR) indicates the worst case performance of a hearing protection device. That is, the reduction of noise for any noise, whether high or low pitch. We at RPB are firm believers that one size does NOT suit all and NRR does not work for all products. The RPB Nova 3 with S100 ear plugs is the perfect combination for Abrasive Blasting.

WHY IS THE RPB NOVA 3 AND S100 EAR PLUGS THE PERFECT COMBINATION?

Abrasive Blasting noise is typically only problematic in the high pitch range (above 2000 Hz) coincidentally this is the range that the RPB Nova 3 and S100 can provide from 54 to 80 dBA of noise reduction. The graph below shows how the noise is reduced across a full range of frequencies.



Our studies have shown that abrasive blasting noise is normally around 120 dBA, as shown in the graph above. In many of these conditions, the noise the operator would actually experience when using the RPB Nova 3 and S100 Ear Plugs could be as low as 60 dBA.

EXPERIENCE THE QUIETNESS YOURSELF - ORDER YOUR RPB NOVA 3 AND S100 EAR PLUGS TODAY!



Test Report T8553-01-1 Issue 1
ANSI S3.19-1974
RPB Safety LLC
18-322 RPB Bell – Ear Plugs with
Nova 3-700-50 Blast Respirator
11 November 2013

Prepared by:

A handwritten signature in black ink that reads "Shelley Brady". The signature is written in a cursive style and is positioned above a horizontal line.

Shelley Brady
Laboratory Administrator

- a) Reports are issued pursuant to the ICS standard Terms and Conditions agreement.
- b) The contents of this test report are confidential. Reproduction of the report is prohibited except in full, unless approved in writing by ICS Laboratories, Inc.
- c) Unless otherwise indicated, test results contained in this report apply only to the samples tested and not to lots or batches from which they were taken.
- d) Where applicable, test data provided by subcontractor is uniquely identified in the test report.

Issued to: RPB Safety LLC
 2807 Samoset Road
 Royal Oak, MI 48073
 USA

Date: 11 November 2013
 Report: T8553-01-1
 Issue: 1
 Page: 1 of 1

Objective:

Contract testing according to ANSI S3.19-1974 “Method for the Measurement of Real-Ear Protection of Hearing Protectors & Physical Attenuation of Ear Muffs”

Sample(s):

Model No./Name:	RPB Bell (18-322)
Product Type:	Disposable Ear Plugs
Quantity:	50pr.
Date(s) Submitted:	25 October 2013
Model No./Name:	RPB Nova 3 (NV3-700-50)
Product Type:	Blasting Respirator
Quantity:	2
Date(s) Submitted:	25 October 2013

Summary:

Test Report:	*	Q3092A Revision 0 (3 pages)
Date of Report:		07 November 2013
Date(s) of Test:		01 November 2013 – 06 November 2013
Test Subjects Used:		10
Tested Position:		Dual
Rating Calculation (NRR):		33 dB

*The attached test report provided by Michael & Associates, Inc.
 Michael & Associates, Inc. is accredited by the National Institute of Standards and Technology (NIST) National Voluntary Laboratory Accreditation Program (NVLAP).

Hearing Protective Device Test Report Number Q3092A Revision 0

ICS
Attn: Shelley Brady
1072 Industrial Parkway North
Brunswick, OH 44212

Date of Report: 11/7/13
Sample Receipt: 10/29/13
Test Dates: 11/1/13-11/6/13



Lab Code 100427-0

Attenuation measurements have been performed according to the American National Standards Institute ANSI S3.19-1974, on the 18-322 w/ Nova 3-700-50 blast respirator as submitted by ICS Labs (test ID Q3092A). For the attenuation testing, the specified threshold measurement data were obtained using ten normally-hearing listeners, six male and four female.

The attenuation measurements were made in a room designed for this purpose. All acoustic characteristics of the room meet the requirements outlined in ANSI S3.19-1974. The ambient noise levels in this room are below the limits specified in ANSI S3.19-1974, and open ear thresholds are used on a continuing basis to monitor the background noise levels. An automatic recording attenuator was used to record both open and occluded ear thresholds.

Each subject was tested at each of nine test frequencies. The attached Tables show grand mean attenuation values in decibels (dB) for each test signal along with group attenuation values. Standard deviations (S.D.) for each of the seven test frequencies are also given. The results presented in this report pertain to the samples tested only.

Michael & Associates is accredited by the United States National Institute of Standards and Technology (NIST) National Voluntary Laboratory Accreditation Program (NVLAP) for tests performed according to American National Standards Institute (ANSI) S3.19-1974, ANSI S12.6-2008, AS/NZ S1270:2002 and EN352 parts 1-8. These accreditation criteria encompass the requirements of ISO 17025. This report may only be reproduced or transmitted electronically in its' entirety. This report shall not be used to claim product endorsement by NVLAP or by any agency of the U.S. Government. All measurement equipment are calibrated with instrumentation traceable to the NIST.

Use these laboratory-derived attenuation data for comparison purposes only. The amount of protection afforded in field use is often significantly lower depending on how the protectors are fitted and worn.

A handwritten signature in black ink, appearing to read 'Kevin Michael', is written over a horizontal line.

Kevin Michael, Ph.D.
President

A handwritten date '11/7/13' in black ink is written over a horizontal line.

Date

**Individual and Summary Attenuation Data for
Hearing Protective Devices**

Test Method: ANSI S3.19-1974

Position: Dual

Manufacturer: ICS Client

Date: 11/7/13

Model: 18-322 w/ Nova 3-700-50 Blast Resp.

Test ID # Q3092A

FREQUENCY IN HERTZ

SUBJECT	125	250	500	1000	2000	3150	4000	6300	8000
1	30	34	40	34	58	65	68	71	78
	28	38	35	37	50	62	73	70	73
	28	32	33	40	50	60	67	67	75
	33	32	36	41	60	70	80	88	86
2	32	31	38	44	58	67	80	90	86
	34	34	37	43	62	70	80	87	87
	38	36	35	42	55	69	73	83	81
3	36	35	35	40	57	68	72	82	79
	39	34	34	40	56	69	74	85	77
	31	31	38	43	48	75	78	82	93
4	36	36	37	48	51	71	80	90	86
	38	40	41	44	53	64	81	84	92
	39	37	47	47	57	75	81	84	80
5	40	36	41	39	57	75	83	83	84
	40	36	45	43	61	77	81	87	85
	40	40	42	48	58	75	78	84	84
6	39	39	43	50	56	74	76	88	85
	39	39	42	49	57	73	77	82	81
	33	33	40	42	53	72	72	74	75
7	33	36	40	40	51	69	71	74	74
	32	35	38	41	49	71	70	73	75
	33	41	39	42	55	70	75	80	77
8	30	30	30	35	51	68	74	77	78
	31	33	35	37	55	68	76	76	78
	35	29	33	39	54	65	72	76	79
9	31	34	33	45	53	68	72	77	81
	37	35	38	36	57	66	70	78	80
	32	34	33	37	47	70	73	80	78
10	28	29	32	36	49	74	77	78	77
	26	29	32	37	50	73	74	77	79
MEANS	34.0	34.6	37.4	41.3	54.2	69.7	75.3	80.2	80.6
STD. DEV.	4.2	3.3	4.1	4.3	4.0	4.1	4.3	6.0	5.1

NRR = 33 dB

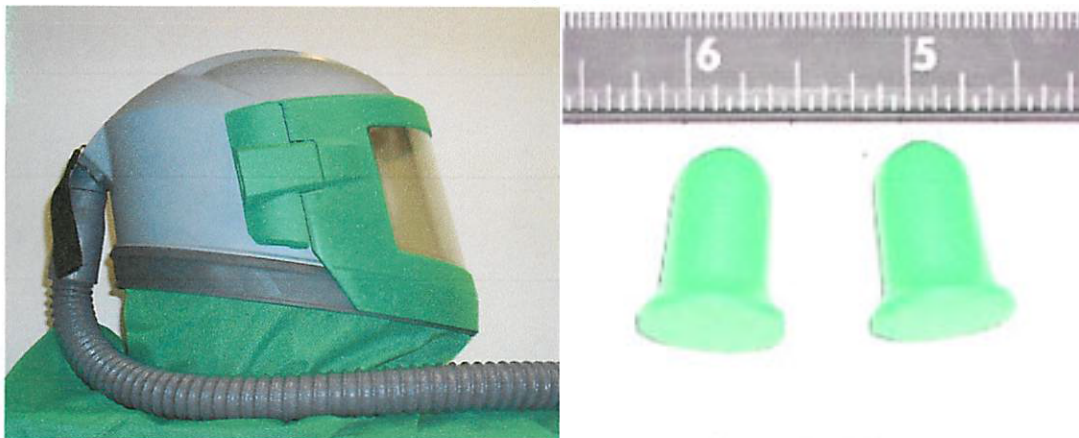
Use these laboratory-derived data for comparison purposes only. The amount of protection afforded in field use is often significantly lower depending on how the protectors are fitted and worn.

Manufacturer: ICS Client Date: 11/7/13
 Model: 18-322 w/ Nova 3-700-50 Blast Resp. Test ID: Q3092A
 Position: Dual

Measurements were made according to American National Standards Institute Specifications ANSI S3.19-1974.

Center Frequency in Hz	Mean Attenuation in dB	Group Attenuation in dB	Standard Deviation in dB
125	34.0	68.5	4.2
250	34.6		3.3
500	37.4		4.1
1000	41.3		4.3
2000	54.2	277.9	4.0
3150	69.7		4.1
4000	75.3		4.3
6300	80.2	160.8	6.0
8000	80.6		5.1

Test Item: Q3092A



These data were obtained through measurements made at the laboratories of Michael & Associates, Inc., State College, PA , USA. Michael & Associates, Inc., is accredited to test to ANSI S3.19-1974, ANSI S12.6-2008, ANSI S12.42-2010, EN352 parts 1-8 and AS/NZ S1270:2002 by the National Institute of Standards and Technology (NIST) National Voluntary Laboratory Accreditation Program (NVLAP).

KLM
 Kevin L. Michael, Ph.D.
 President

11/7/13
 Date

TERMS AND CONDITIONS

1. Client acknowledges that ICS Laboratories (ICS) performs testing services only as specified by Client. ICS does not design, warrant, supervise or monitor compliance of products or services except as specifically agreed to in writing. By their very nature, testing, analysis, and other ICS services are limited in scope and subject to expected measurement variability.
2. Client or Client's authorized representative shall be afforded the opportunity to clarify test requests and reasonable access to monitor test work, provisional to protecting the confidentiality of other clients.
3. ICS shall keep documents and information related to Client confidential and will not disclose any such information to third parties without client permission. ICS will, however, disclose any such information in response to compulsory legal process after providing Client with a copy of such process.
4. ICS Reports apply only to the standards or procedures identified therein and to the sample (s) tested and or inspection (s) made. Test and/or inspection results are not indicative or representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products.
5. ICS Reports are for the exclusive use of the Client. They and the name ICS Laboratories, Inc., or its seals or insignia, are not to be used by or on behalf of Clients under any circumstances for any purpose whatsoever, including but not limited to use in advertising, publicity material or in any other manner without ICS's prior written approval.
6. Any use by Client of ICS's Reports or the information contained therein is conditional upon timely payment of all fees.
7. The name (s) listed as the "Issued to" party on test reports may not reflect the actual entity submitting and/or contracting the assessment.
8. ICS shall retain copies of reports for a period of at least three years and when applicable and appropriate, evidentiary test samples for the length of time as deemed appropriate after which time they may be disposed of at management's discretion. If Client requests additional copies of Reports during this period, an additional charge will apply for the preparation and delivery of such reports.
9. Test reports are valid for certification purposes for one year from date of issue, inclusive of retest or variant additions which must be performed within one year of date of issue to avoid full retest.
10. Client is responsible for procuring, at its cost, insurance protecting the value of its property and samples.
11. For the safety of our personnel, Client must advise if samples are known or suspected to contain hazardous substances. Material Safety Data Sheets must be provided upon request if available.
12. ICS represents that Services shall be performed within the limits agreed with Client, and in a manner consistent with good laboratory practice. **NO OTHER REPRESENTATIONS TO CLIENT, EXPRESS OR IMPLIED, AND NO WARRANTY OR GUARANTEE IS INCLUDED OR INTENDED IN THIS AGREEMENT, OR IN ANY OTHER REPORT, OPINION OR DOCUMENT RELATED TO THE SERVICES. ICS DOES NOT GUARANTEE PRODUCT COMPLIANCE OR CERTIFICATION.**
13. ICS hereby objects to any conflicting terms contained in any order or acceptance submitted by Client.
14. Schedules confirmed upon acceptance of quotation. All reasonable efforts will be made to comply with conferred schedule. Guarantees are neither implied nor promised.
15. Certain work may be subcontracted to ICS authorized affiliate laboratories as required or applicable.
16. Client agrees to pay any and all additional costs associated with unexpected or above standard communications and/or consultations with client or third parties as designated by client.
17. Client agrees to pay any and all additional costs for work additional to the original scope of work as agreed to by client.
18. Client understands and agrees that ICS, in entering into this Contract and by performing services hereunder, does not assume, abridge, abrogate or undertake to discharge any duty or responsibility of Client to any other party or parties. No one other than Client shall have any right to rely on any Report or other representation of conduct of ICS and ICS disclaims any obligations of any nature whatsoever with respect to such person. **CLIENT AGREES, IN CONSIDERATION OF ICS UNDERTAKING TO PERFORM THE TEST(S) HEREUNDER, TO PROTECT, DEFEND, INDEMNIFY, SAVE HARMLESS AND EXONERATE ICS FROM ANY AND ALL CLAIMS, DAMAGES, EXPENSES EITHER DIRECT OR CONSEQUENTIAL FOR INJURIES TO PERSONS OR PROPERTY ARISING OUT OF OR IN CONSEQUENCE OF THE PERFORMANCE OF THE TESTING, INSPECTIONS AND REPORTS HEREUNDER AND/OR THE PERFORMANCE OF THE PRODUCTS TESTED OR INSPECTED HEREUNDER, UNLESS CAUSED BY THE NEGLIGENCE OF ICS.**
19. **IT IS AGREED THAT IF ICS SHOULD BE FOUND LIABLE FOR ANY LOSSES OR DAMAGES ATTRIBUTABLE TO THE SERVICES HEREUNDER IN ANY RESPECT, ITS LIABILITY SHALL IN NO EVENT EXCEED THE AMOUNT OF THE FEE PAID BY CLIENT FOR SUCH SERVICES AND CLIENT'S SOLE REMEDY AT LAW OR IN EQUITY SHALL BE THE RIGHT TO RECOVER UP TO SUCH AMOUNT.**
20. Quotations are valid for 30 days from date of issue. Terms: 30% Laboratory/Testing fees invoiced and payable upon acceptance of quotation. Remaining Laboratory/Testing fees invoiced and payable upon completion of services, 15 days net. Cancelled jobs will be invoiced for work performed and/or set-up costs incurred. Cancelled Purchase Orders are subject to 10% service charge. Shipping costs incurred by ICS will be invoiced at cost +10% handling fee. A minimum USD \$25.00 handling fee will be invoiced. Shipping costs incurred by the client will be invoiced a USD \$25.00 handling fee.
21. In the event that payment is not received within 15 days of invoice date, Client agrees to pay a late payment charge on the unpaid balance equal to 1-1/2% per month or the maximum charge allowed by law, whichever is less, and all costs and expenses, including attorney's fees where recovery of the same is not prohibited by law, incurred by ICS in collecting such invoices.
22. All costs associated with compliance with any subpoena (s) for documents, testimony in a court of law, or for any other purpose relating to work performed by ICS in connection with work performed for that Client, shall be paid by Client. Client shall also pay ICS's then existing standard fee for consulting, deposition and trial testimony and all expenses related thereto.
23. Cancelled/discontinued orders: Client responsible for all administrative and testing charges up to point of cancellation.