



PROVINCIA  
DI ROMA



PROVINCIA  
DI LATINA







COMUNE DI  
NETTUNO





COMUNE DI  
LATINA



|            |                                                                                   |                                                                                                       |
|------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Proponente |  | <p><b>NET1 POWER S.r.l.</b><br/>Sede: Viale A. Volta, 101<br/>50131 Firenze<br/>P.IVA 07230420486</p> |
|------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|

|                                                              |                                                                                   |                                                                                                                                                                                                 |                                                                                   |                                                                                    |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Progettazione,<br>Coordinamento e<br>progettazione elettrica |  | <p><b>STUDIO INGEGNERIA ELETTRICA</b><br/>MEZZINA dott. ing. Antonio<br/>Via T. Solis 128   71016 San Severo (FG)<br/>Tel. 0882.228072   Fax 0882.243651<br/>e-mail: info@studiomezzina.net</p> |  |  |
|--------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|

|                                 |                                                                                                                                                                                                                                                      |                                                |                                                                                                                                                                                                                                                                                     |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Studio<br>di impatto ambientale | <br><br><b>VDP S.r.l.</b><br>Via Federico Rosazza n. 38 - 00153 Rome - Italy<br>Tel. +39 065800506-065883135-0658343877<br>Fax +39 065896686<br>mail: vdp@vdpsrl.it | Studio<br>archeologico                         | <p><b>Dott. Archeologo Antonio Mangia</b><br/>cell. 338 3362537<br/>E-Mail: amangia@yahoo.it<br/>Elenco Nazionale dei Professionisti dei Beni Culturali del Ministero della Cultura n.1516</p>                                                                                      |
|                                 |                                                                                                                                                                                                                                                      | Studio<br>litraulico geologico<br>e geotecnico | <p><b>Dott. Nazario Di Lella</b><br/>Tel./Fax 0882.991704   cell. 328 3250902<br/>E-Mail: geol.dilella@gmail.com<br/>Ordine regionale dei Geologi della Puglia matr. n. 345</p>                                                                                                     |
|                                 |                                                                                                                                                                                                                                                      | Studio<br>acustico                             | <p><b>STUDIO FALCONE</b><br/>Ingegneria<br/><b>Ing. Antonio Falcone</b><br/>Tel. 0884.534378   Fax. 0884.534378<br/>E-Mail: antonio.falcone@studiofalcone.eu<br/>Ordine degli Ingegneri di Foggia matr. n.2100</p>                                                                  |
|                                 |                                                                                                                                                                                                                                                      | Studio<br>strutturale                          | <p><br/><b>Ing. Tommaso Monaco</b><br/>Tel. 0885.429850   Fax 0885.090485<br/>E-Mail: ing.tommaso@studiotecnicomonaco.it<br/>Ordine degli Ingegneri della provincia di Foggia matr. n. 2906</p> |
|                                 |                                                                                                                                                                                                                                                      | Consulenza<br>topografica                      | <p><b>Geom. Matteo Occhiochiuso</b><br/>Tel. 328 5615292<br/>E-Mail: matteo.occhiochiuso@virgilio.it<br/>Collegio dei Circondariale Geometri e Geometri Laureati<br/>di Lucera matr. n. 1101</p>                                                                                    |

|       |                                                                                                                                                                                                                                                                                                                                                                        |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Opera | <p><b>Progetto definitivo per la realizzazione di un impianto Fotovoltaico denominato "NETTUNO" da realizzarsi su aree demaniali militari in località "Eschieto" nel territorio comunale di Nettuno (RM) per una potenza complessiva di 40,322 MWp nonchè delle opere connesse ed infrastrutture indispensabili alla costruzione e all'esercizio dell'impianto</b></p> |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|         |                                                                                     |
|---------|-------------------------------------------------------------------------------------|
| Oggetto | Folder:                                                                             |
|         | Nome Elaborato:<br><b>STUDIO DI IMPATTO AMBIENTALE - SCHEDE MISURE FONOMETRICHE</b> |
|         | Descrizione Elaborato:                                                              |

|      |             |                         |              |          |                 |                   |
|------|-------------|-------------------------|--------------|----------|-----------------|-------------------|
|      |             |                         |              |          |                 |                   |
| 00   | Luglio 2023 | Progetto definitivo     |              |          | Ing. A. Mezzina | NET1 POWER S.r.l. |
| Rev. | Data        | Oggetto della revisione | Elaborazione | Verifica | Approvazione    |                   |

|          |  |
|----------|--|
| Scala:   |  |
| Formato: |  |

RAPPORTO DI MISURA RILIEVI ACUSTICI – INDAGINI SPOT

CARATTERISTICHE PUNTO DI MISURA

|                  |                                   |                |                                                                     |
|------------------|-----------------------------------|----------------|---------------------------------------------------------------------|
| Punto di misura  | <b>RUM_01</b>                     | Coordinate     | Latitudine <b>41°27'31.10"N</b><br>Longitudine <b>12°41'19.23"E</b> |
| Regione          | <b>Lazio</b>                      | Provincia      | <b>Roma</b>                                                         |
| Comune           | <b>Nettuno</b>                    | Località       | <b>Nettuno</b>                                                      |
| Indirizzo        | <b>Via Tirso / Via Acciarella</b> | Operatore      | <b>S.de Fabritiis (Enteca n.7297)</b>                               |
| Data             | <b>30/05/2023</b>                 | Strumentazione | <b>L&amp;D LxT</b>                                                  |
| Sorgente preval. | <b>Traffico stradale, cicale</b>  | Altezza Mic.   | <b>1,5 m</b>                                                        |

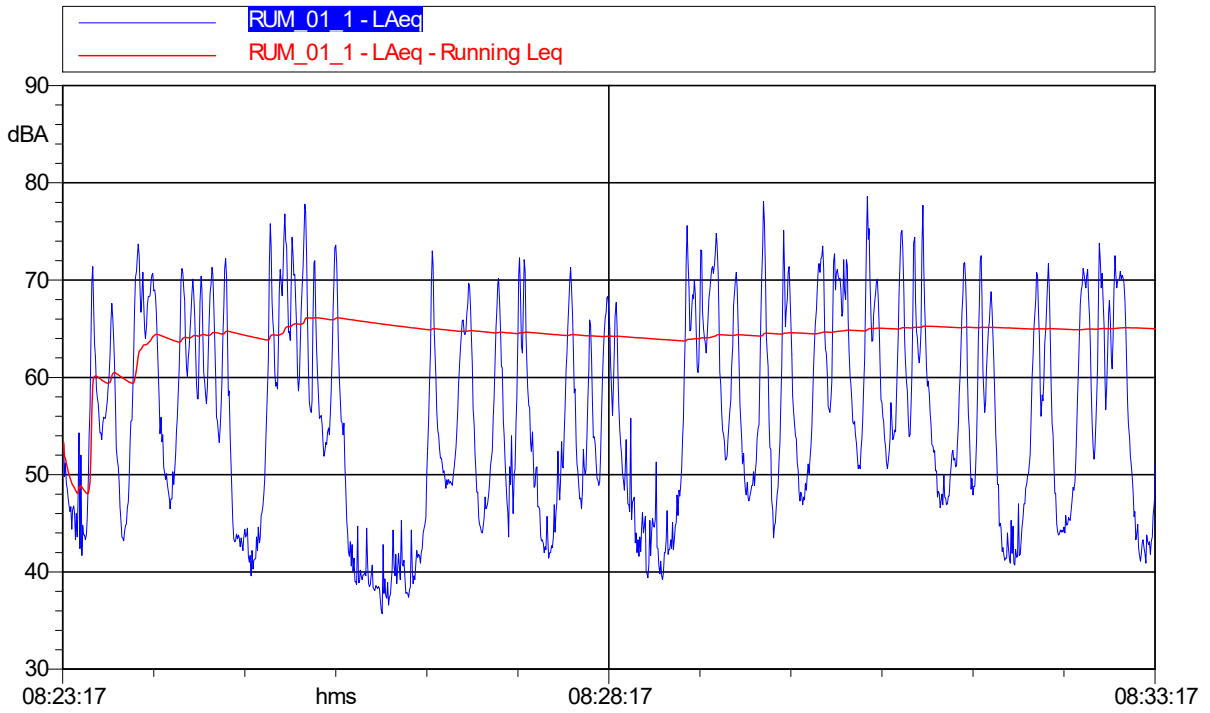


RISULTATI INDAGINE FONOMETRICA

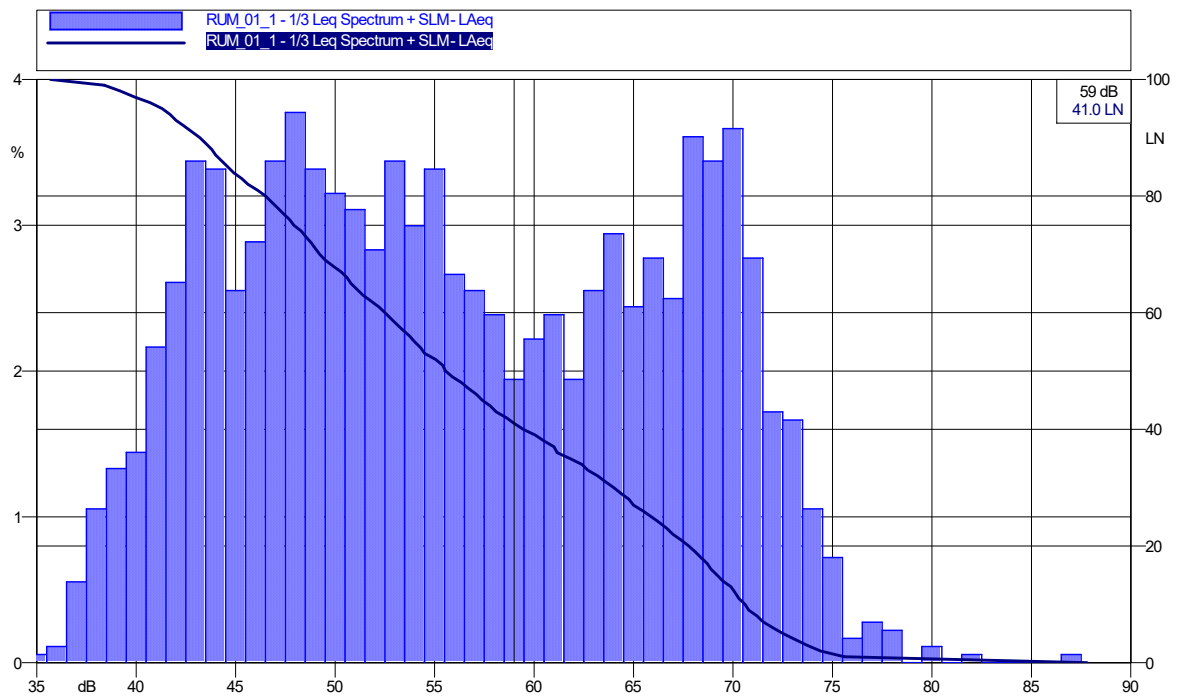
| Intervallo                     | Data       | Ora      | Leq [dBA]   | L max [dBA] | L min [dBA] | L1          | L5          | L10         | L50         | L90         | L99         |
|--------------------------------|------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1°-Diurno                      | 30/05/2023 | 08:23:17 | 66,2        | 87,8        | 35,7        | 75,6        | 72,5        | 70,6        | 55,5        | 43,2        | 38,4        |
| 2°-Diurno                      | 30/05/2023 | 17:22:54 | 67,5        | 79,8        | 37,3        | 76,9        | 74,2        | 72,4        | 59,2        | 45,8        | 40,1        |
| <b>Media dei valori diurni</b> |            |          | <b>66,9</b> | <b>85,4</b> | <b>36,6</b> | <b>76,3</b> | <b>73,4</b> | <b>71,6</b> | <b>57,7</b> | <b>44,7</b> | <b>39,3</b> |

NOTE

OUTPUT GRAFICO DI MISURA – TIME HISTORY SPOT E CURVA DISTRIBUTIVA / CUMULATIVA – VALORI IN DB(A)

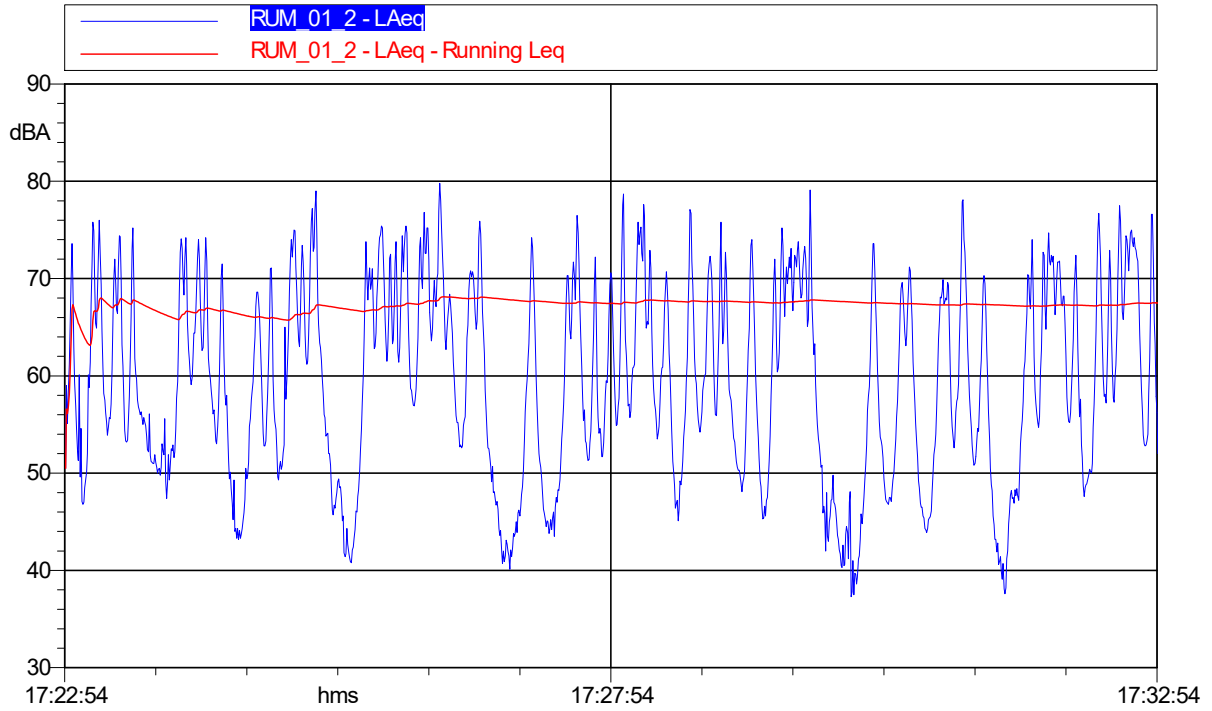


Rum 1 Time History spot \_1

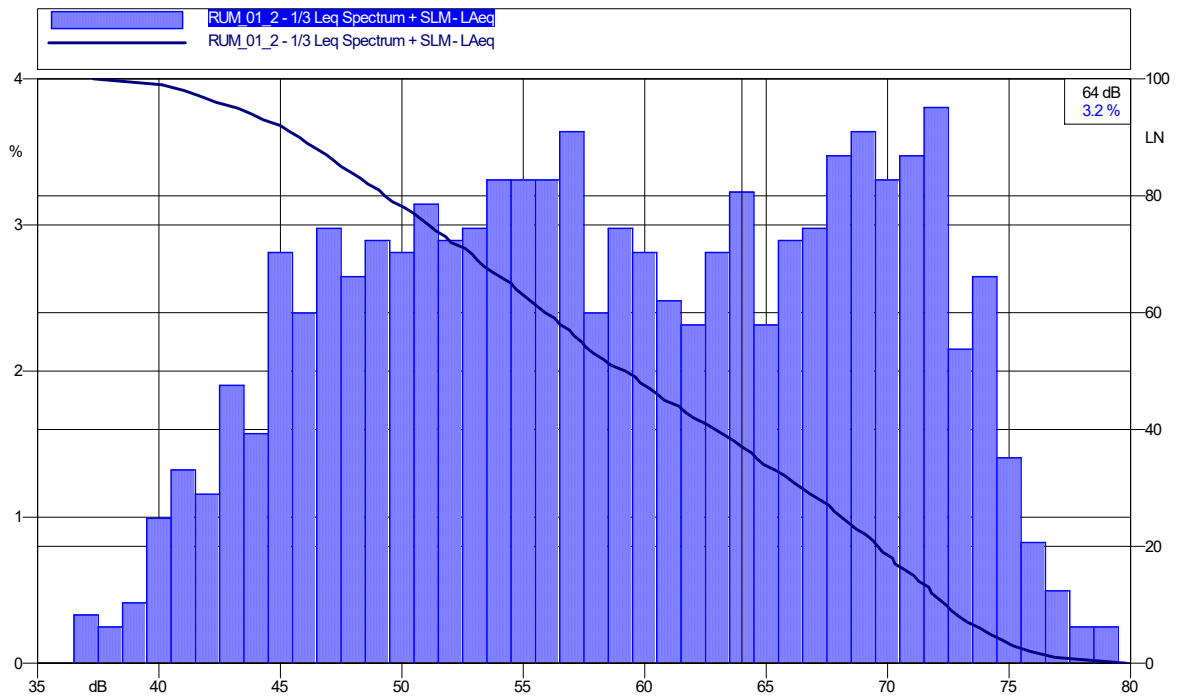


Punto A Curva cumulativa/distributiva

OUTPUT GRAFICO DI MISURA – TIME HISTORY SPOT E CURVA DISTRIBUTIVA / CUMULATIVA – VALORI IN DB(A)



Rum 1 Time History spot\_2

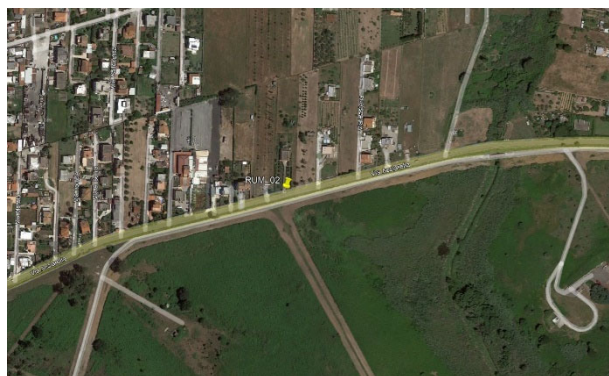


Curva cumulativa/distributiva

RAPPORTO DI MISURA RILIEVI ACUSTICI – INDAGINI SPOT

CARATTERISTICHE PUNTO DI MISURA

|                  |                                            |                |                                       |                      |
|------------------|--------------------------------------------|----------------|---------------------------------------|----------------------|
| Punto di misura  | <b>RUM_02</b>                              | Coordinate     | Latitudine                            | <b>41°27'38.96"N</b> |
|                  |                                            |                | Longitudine                           | <b>12°41'53.14"E</b> |
| Regione          | <b>Lazio</b>                               | Provincia      | <b>Roma</b>                           |                      |
| Comune           | <b>Nettuno</b>                             | Località       | <b>Nettuno</b>                        |                      |
| Indirizzo        | <b>Via Acciarella 123</b>                  | Operatore      | <b>S.de Fabritiis (Enteca n.7297)</b> |                      |
| Data             | <b>30/05/2023</b>                          | Strumentazione | <b>L&amp;D LxT</b>                    |                      |
| Sorgente preval. | <b>Traffico stradale, avifauna, cicale</b> | Altezza Mic.   | <b>1,5 m</b>                          |                      |

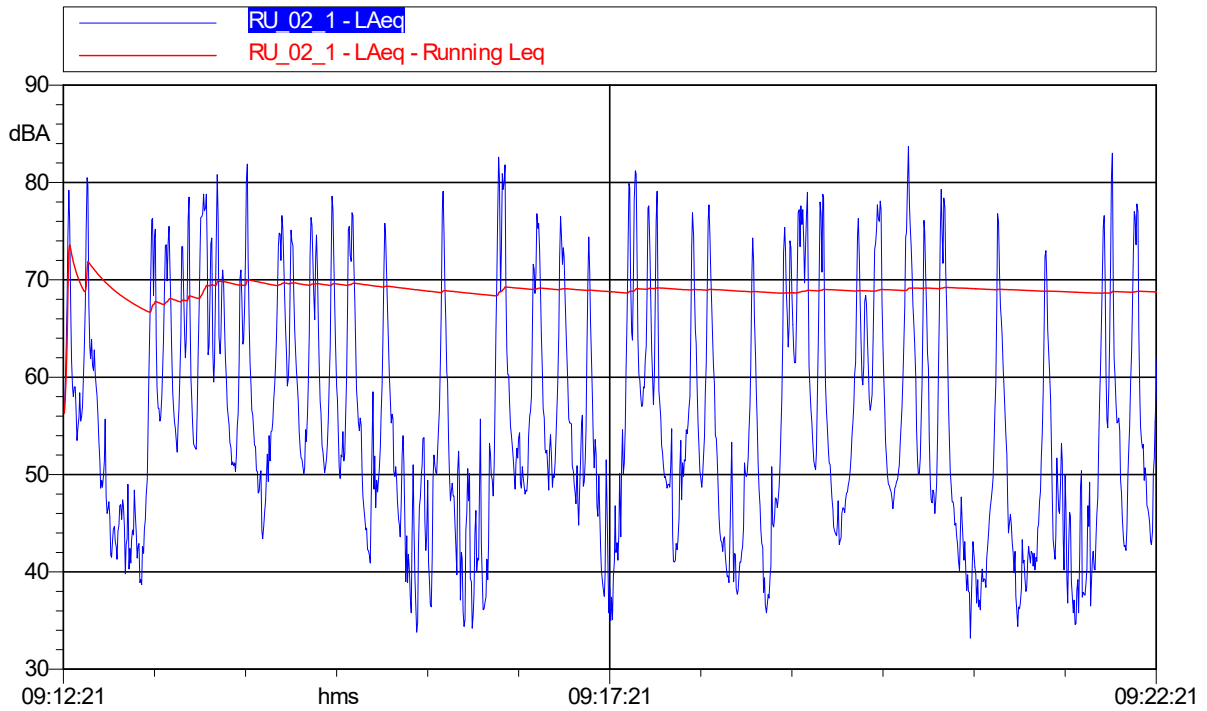


RISULTATI INDAGINE FONOMETRICA

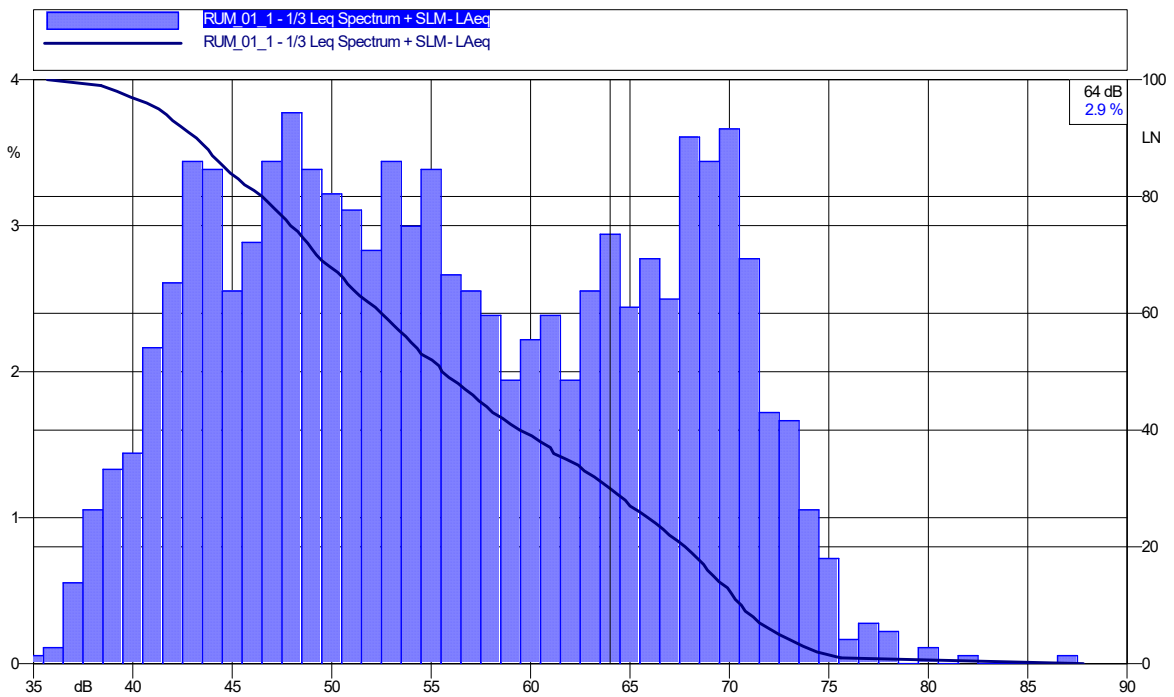
| Intervallo                     | Data       | Ora      | Leq [dBA]   | L max [dBA] | L min [dBA] | L1          | L5          | L10         | L50         | L90         | L99         |
|--------------------------------|------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1°-Diurno                      | 30/05/2023 | 09:12:21 | 68,7        | 83,7        | 33,2        | 80          | 76,6        | 73,7        | 53,3        | 40,9        | 35,8        |
| 2°-Diurno                      | 30/05/2023 | 15:31:22 | 69,5        | 86,7        | 34,1        | 80,9        | 77,3        | 74,1        | 55,3        | 40,8        | 35,5        |
| <b>Media dei valori diurni</b> |            |          | <b>69,1</b> | <b>85,5</b> | <b>33,7</b> | <b>80,5</b> | <b>77,0</b> | <b>73,9</b> | <b>54,4</b> | <b>40,9</b> | <b>35,7</b> |

NOTE

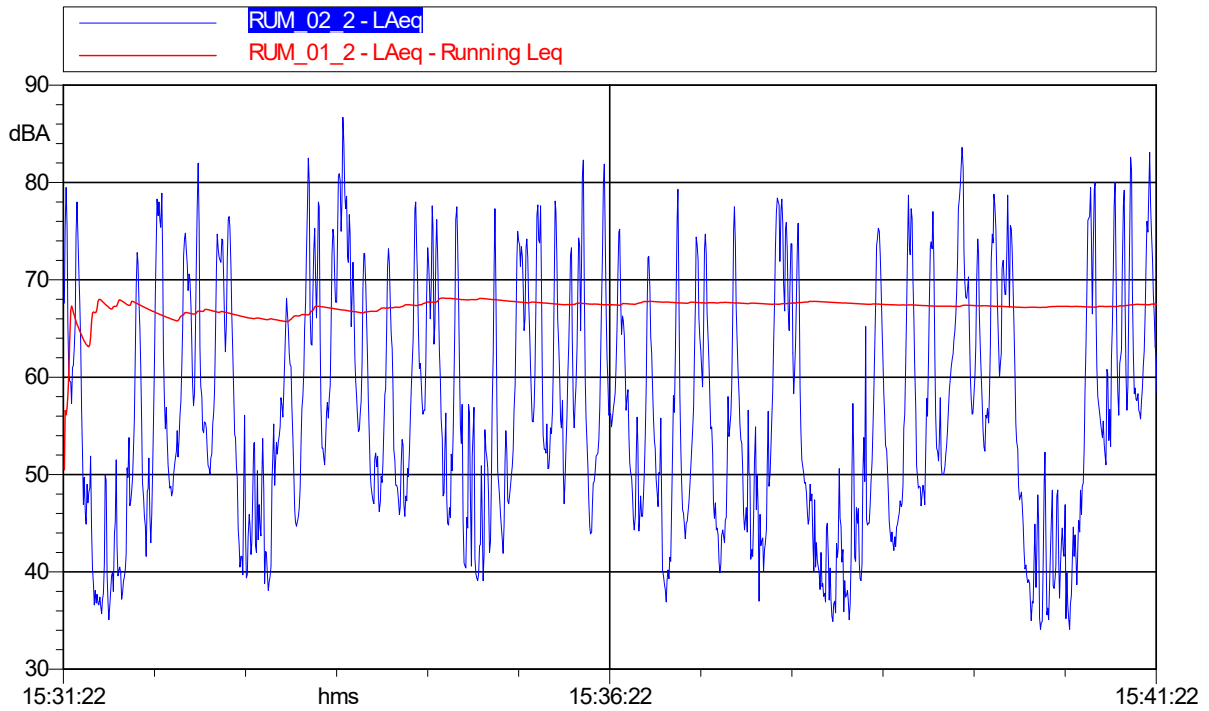
OUTPUT GRAFICO DI MISURA – TIME HISTORY SPOT E CURVA DISTRIBUTIVA / CUMULATIVA – VALORI IN DB(A)



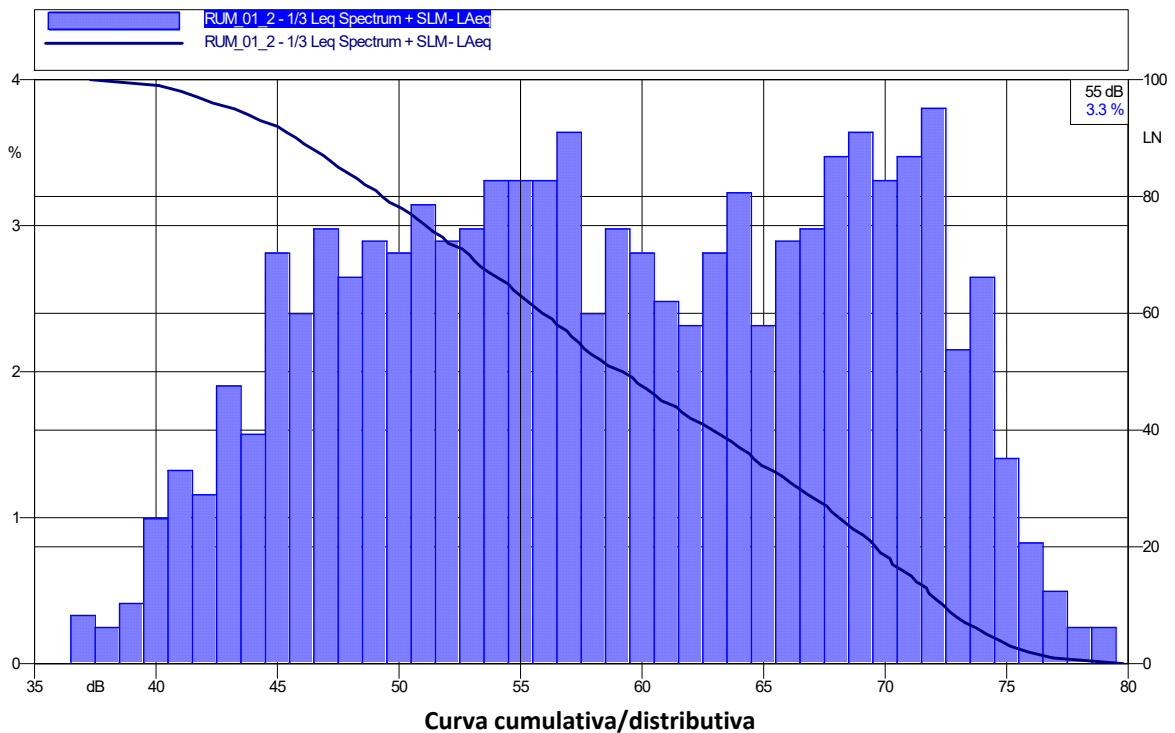
Rum 2 Time History spot\_1



OUTPUT GRAFICO DI MISURA – TIME HISTORY SPOT E CURVA DISTRIBUTIVA / CUMULATIVA – VALORI IN DB(A)



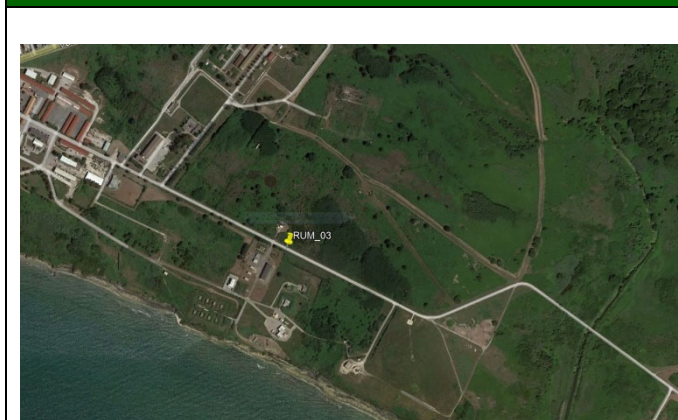
Punto 2 Time History spot\_2



**RAPPORTO DI MISURA RILIEVI ACUSTICI – INDAGINI SPOT**

**CARATTERISTICHE PUNTO DI MISURA**

|                  |                                                               |                |                                                                     |
|------------------|---------------------------------------------------------------|----------------|---------------------------------------------------------------------|
| Punto di misura  | <b>RUM_03</b>                                                 | Coordinate     | <b>Latitudine 41°27'11.54"N</b><br><b>Longitudine 12°41'35.95"E</b> |
| Regione          | <b>Lazio</b>                                                  | Provincia      | <b>Roma</b>                                                         |
| Comune           | <b>Nettuno</b>                                                | Località       | <b>Interno area militare Nettuno</b>                                |
| Indirizzo        | <b>Via Acciarella</b>                                         | Operatore      | <b>S.de Fabritiis (Enteca n.7297)</b>                               |
| Data             | <b>30/05/2023</b>                                             | Strumentazione | <b>L&amp;D LxT</b>                                                  |
| Sorgente preval. | <b>Traffico stradale, attività militari, avifauna, cicale</b> | Altezza Mic.   | <b>1,5 m</b>                                                        |



**RISULTATI INDAGINE FONOMETRICA**

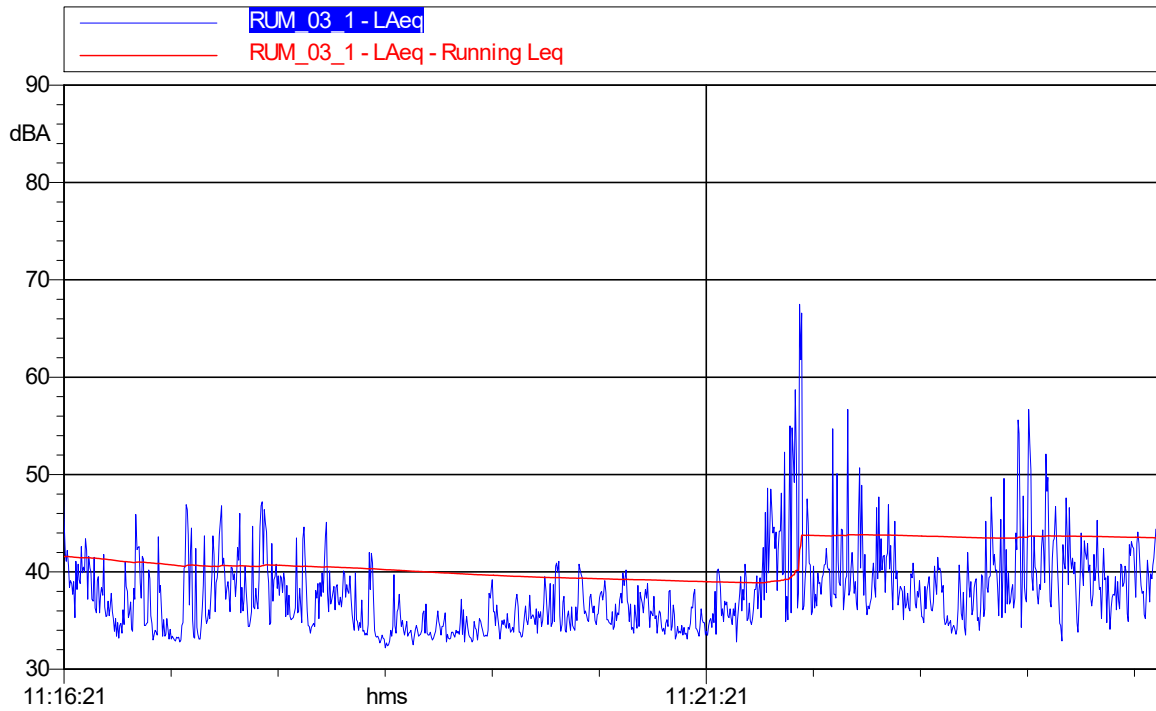
| Intervallo                     | Data       | Ora      | Leq [dBA]   | L max [dBA] | L min [dBA] | L1          | L5          | L10         | L50         | L90         | L99         |
|--------------------------------|------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1°-Diurno                      | 30/05/2023 | 11:14:52 | 45,3        | 67,5        | 32,2        | 52,6        | 45,7        | 43,5        | 37,7        | 33,9        | 32,9        |
| 2°-Diurno                      | 30/05/2023 | 14:48:58 | 47,8        | 70,9        | 33,4        | 59,4        | 50,5        | 43,7        | 36,3        | 34,4        | 33,7        |
| <b>Media dei valori diurni</b> |            |          | <b>46,7</b> | <b>69,5</b> | <b>32,8</b> | <b>57,2</b> | <b>48,7</b> | <b>43,6</b> | <b>37,1</b> | <b>34,2</b> | <b>33,3</b> |

**NOTE**

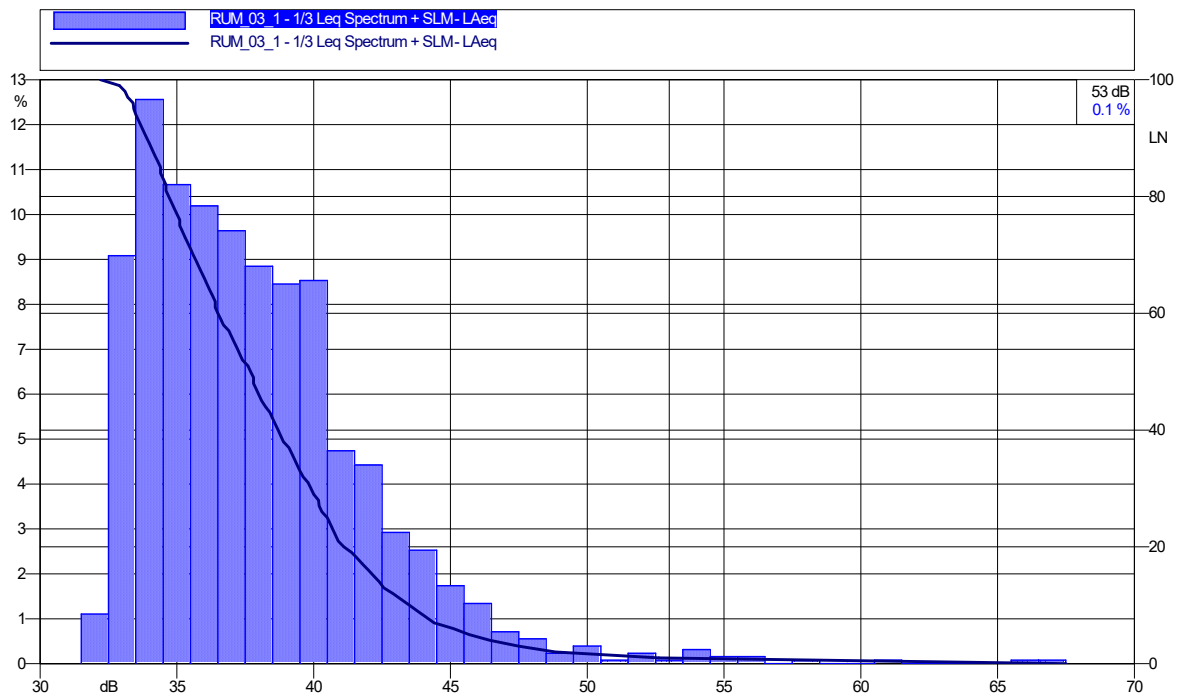
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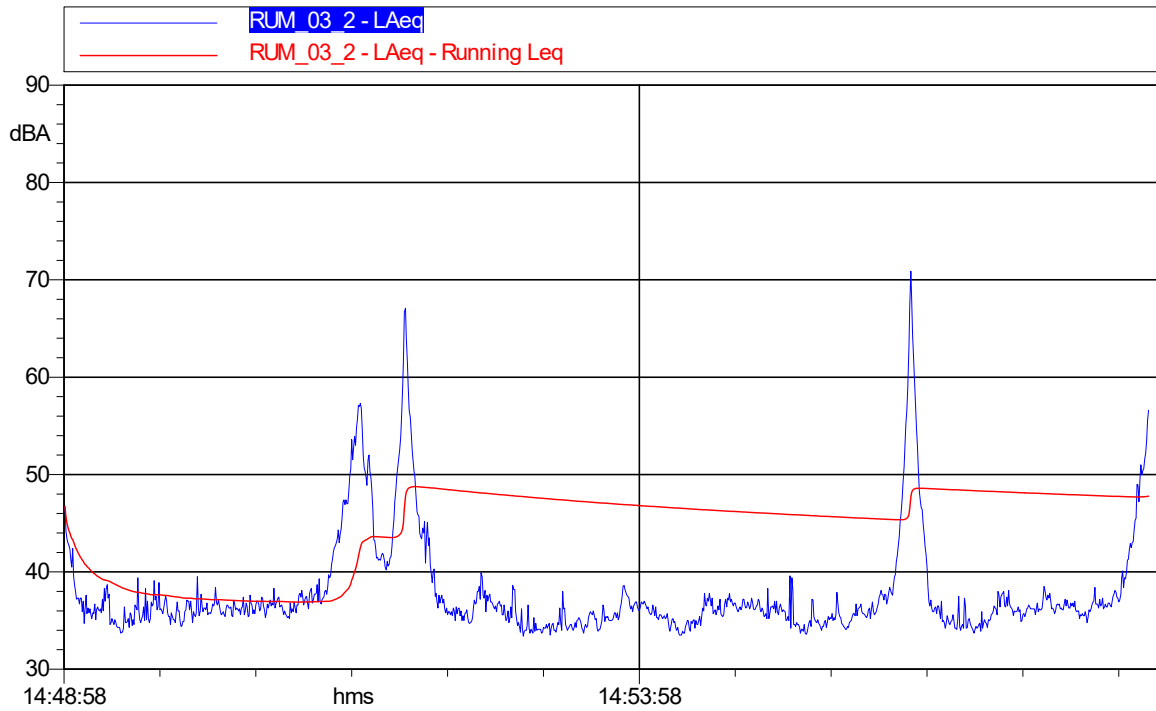
OUTPUT GRAFICO DI MISURA – TIME HISTORY SPOT E CURVA DISTRIBUTIVA / CUMULATIVA – VALORI IN DB(A)



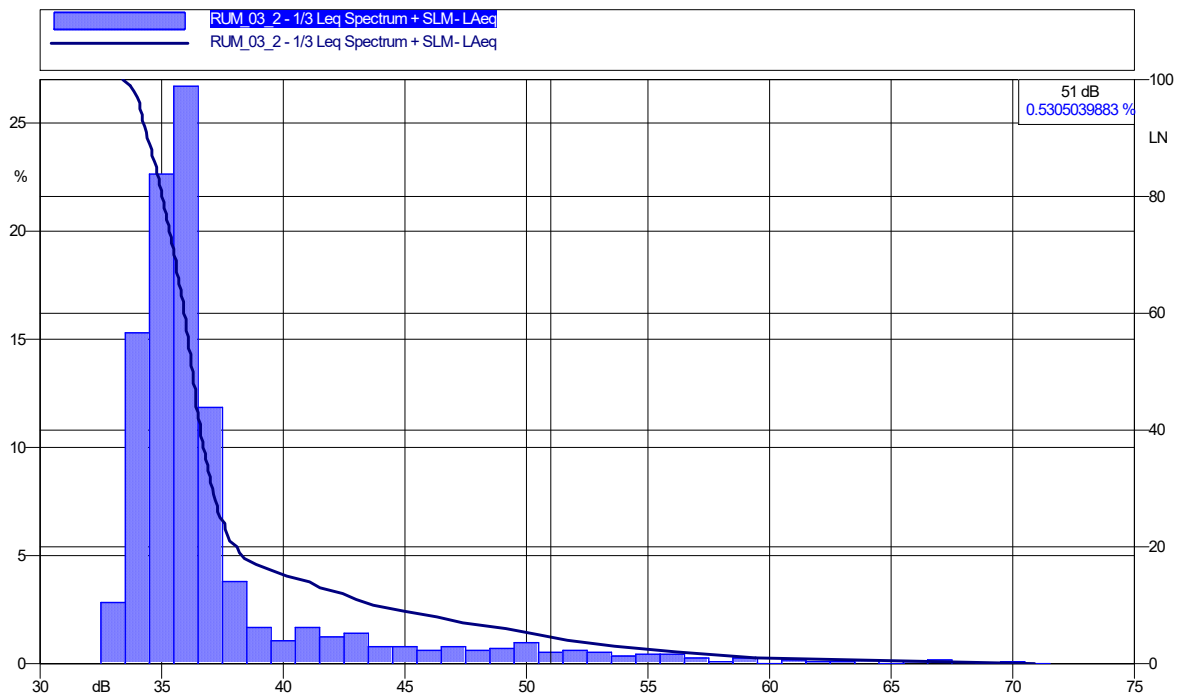
Rum 3 Time History spot\_1



Curva cumulativa/distributiva



Rum 3 Time History spot\_2

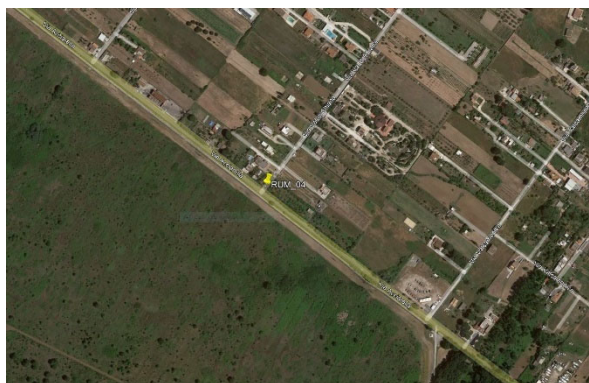


Curva cumulativa/distributiva

**RAPPORTO DI MISURA RILIEVI ACUSTICI – INDAGINI SPOT**

**CARATTERISTICHE PUNTO DI MISURA**

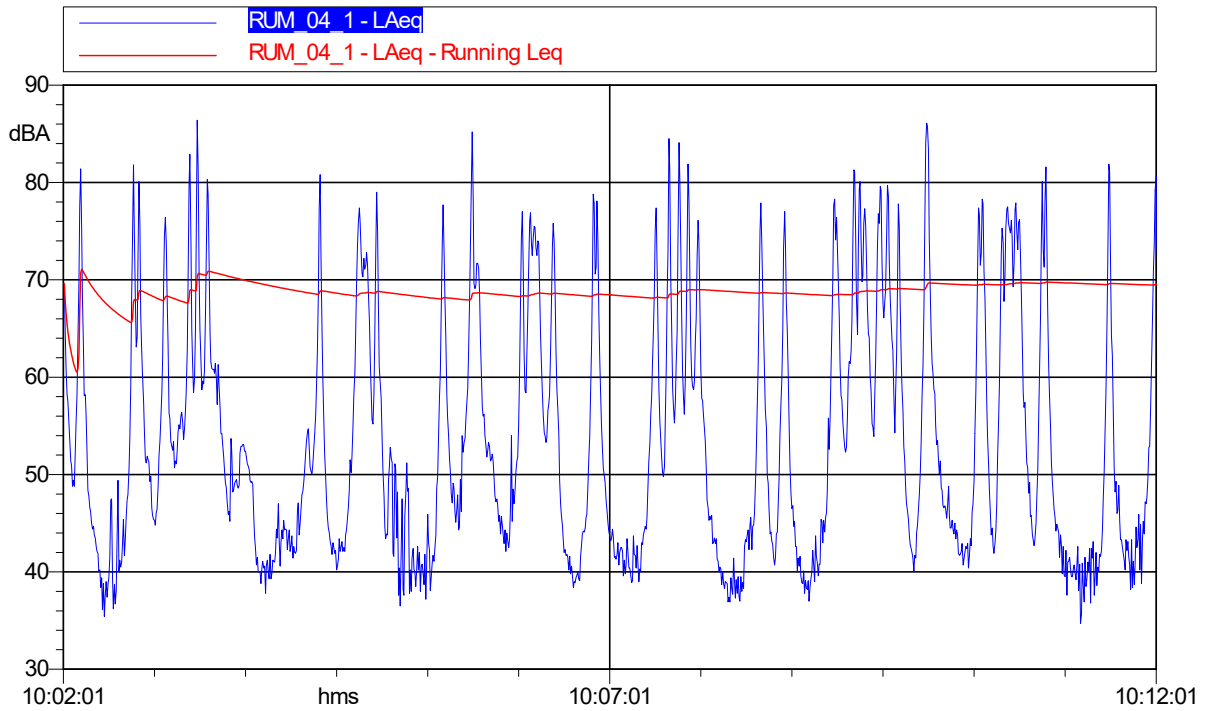
|                  |                                            |                |                                                                    |
|------------------|--------------------------------------------|----------------|--------------------------------------------------------------------|
| Punto di misura  | <b>RUM_04</b>                              | Coordinate     | <b>Latitudine 41°27'4.80"N</b><br><b>Longitudine 12°43'48.59"E</b> |
| Regione          | <b>Lazio</b>                               | Provincia      | <b>Roma</b>                                                        |
| Comune           | <b>Cerveteri</b>                           | Località       | <b>Nettuno</b>                                                     |
| Indirizzo        | <b>Via Val di Chiana/Via Acciarella</b>    | Operatore      | <b>S.de Fabritiis (Enteca n.7297)</b>                              |
| Data             | <b>30/05/2023</b>                          | Strumentazione | <b>L&amp;D LxT</b>                                                 |
| Sorgente preval. | <b>Traffico stradale, avifauna, cicale</b> | Altezza Mic.   | <b>1,5 m</b>                                                       |



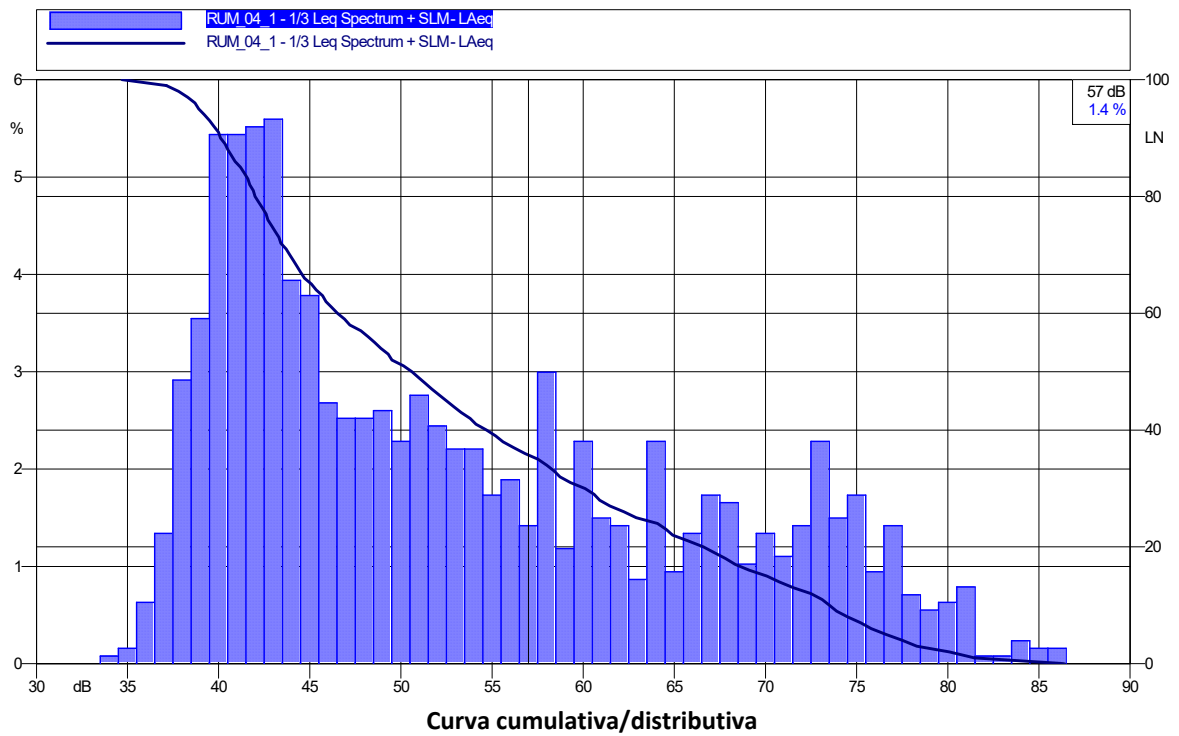
**RISULTATI INDAGINE FONOMETRICA**

| Intervallo                     | Data       | Ora      | Leq [dBA]   | L max [dBA] | L min [dBA] | L1          | L5          | L10         | L50         | L90         | L99         |
|--------------------------------|------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1°-Diurno                      | 30/05/2023 | 10:02:01 | 69,5        | 86,4        | 34,7        | 81,5        | 76,6        | 73,5        | 50,6        | 40,1        | 37,1        |
| 2°-Diurno                      | 30/05/2023 | 15:57:33 | 70,1        | 87,3        | 33,1        | 82,6        | 77,8        | 74,3        | 50,4        | 39,1        | 35,5        |
| <b>Media dei valori diurni</b> |            |          | <b>69,8</b> | <b>86,9</b> | <b>34,0</b> | <b>82,1</b> | <b>77,2</b> | <b>73,9</b> | <b>50,5</b> | <b>39,6</b> | <b>36,4</b> |

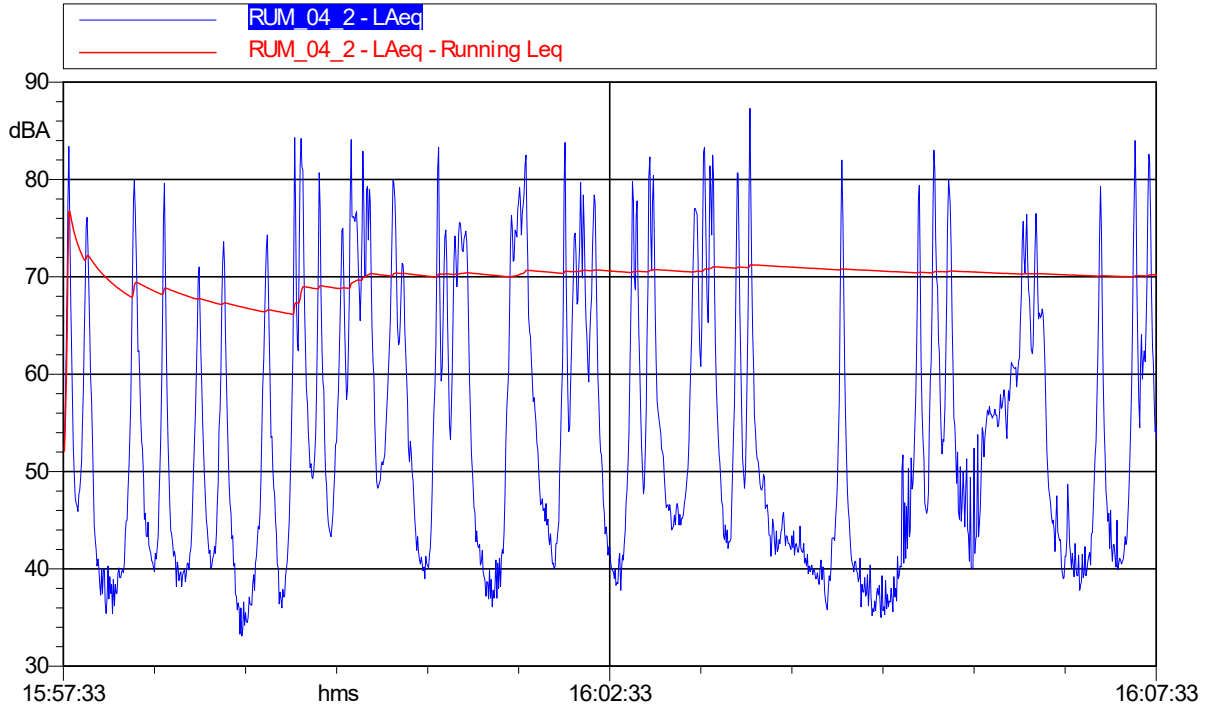
**NOTE**



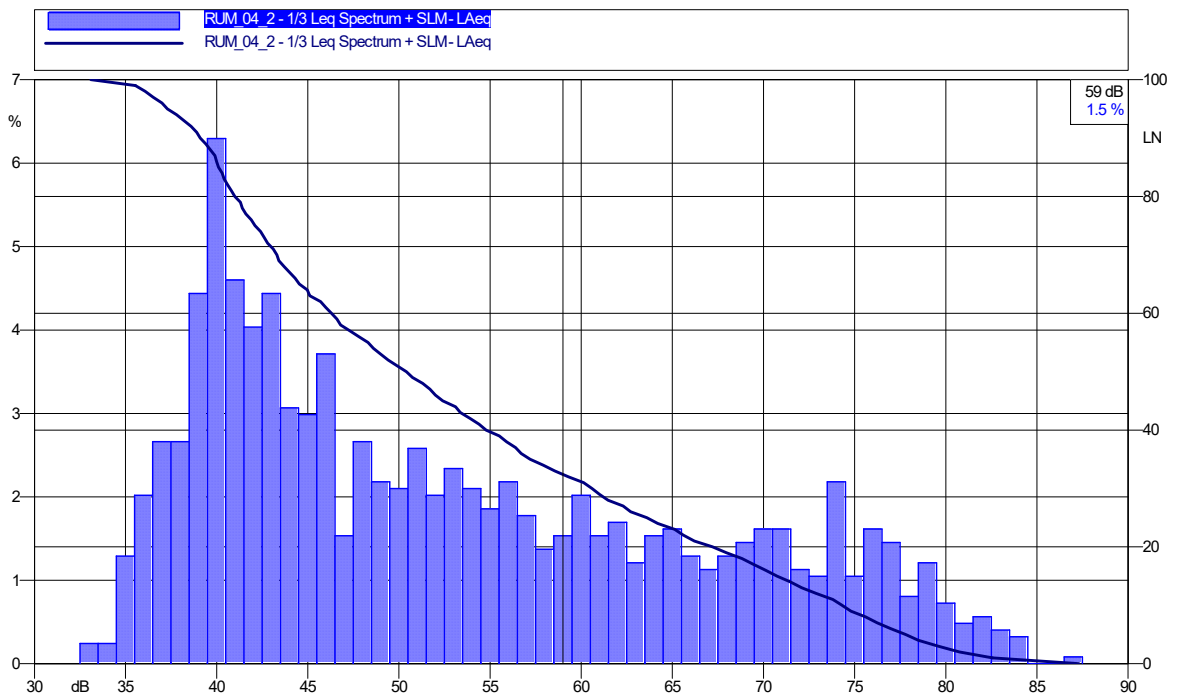
Rum 4 Time History spot\_1



Curva cumulativa/distributiva



Rum 4 Time History spot\_2



Curva cumulativa/distributiva

**RAPPORTO DI MISURA RILIEVI ACUSTICI – INDAGINI SPOT**

**CARATTERISTICHE PUNTO DI MISURA**

|                  |                                            |                |                                                              |
|------------------|--------------------------------------------|----------------|--------------------------------------------------------------|
| Punto di misura  | <b>Rum_5</b>                               | Coordinate     | <b>Latitudine 41°26'1.04"N<br/>Longitudine 12°47'15.13"E</b> |
| Regione          | <b>Lazio</b>                               | Provincia      | <b>Latina</b>                                                |
| Comune           | <b>Latina</b>                              | Località       | <b>Astura</b>                                                |
| Indirizzo        | <b>Strada Astura /strada alta</b>          | Operatore      | <b>S.de Fabritiis (Enteca n.7297)</b>                        |
| Data             | <b>30/05/2023</b>                          | Strumentazione | <b>L&amp;D LxT</b>                                           |
| Sorgente preval. | <b>Traffico stradale, avifauna, cicale</b> | Altezza Mic.   | <b>1,5 m</b>                                                 |



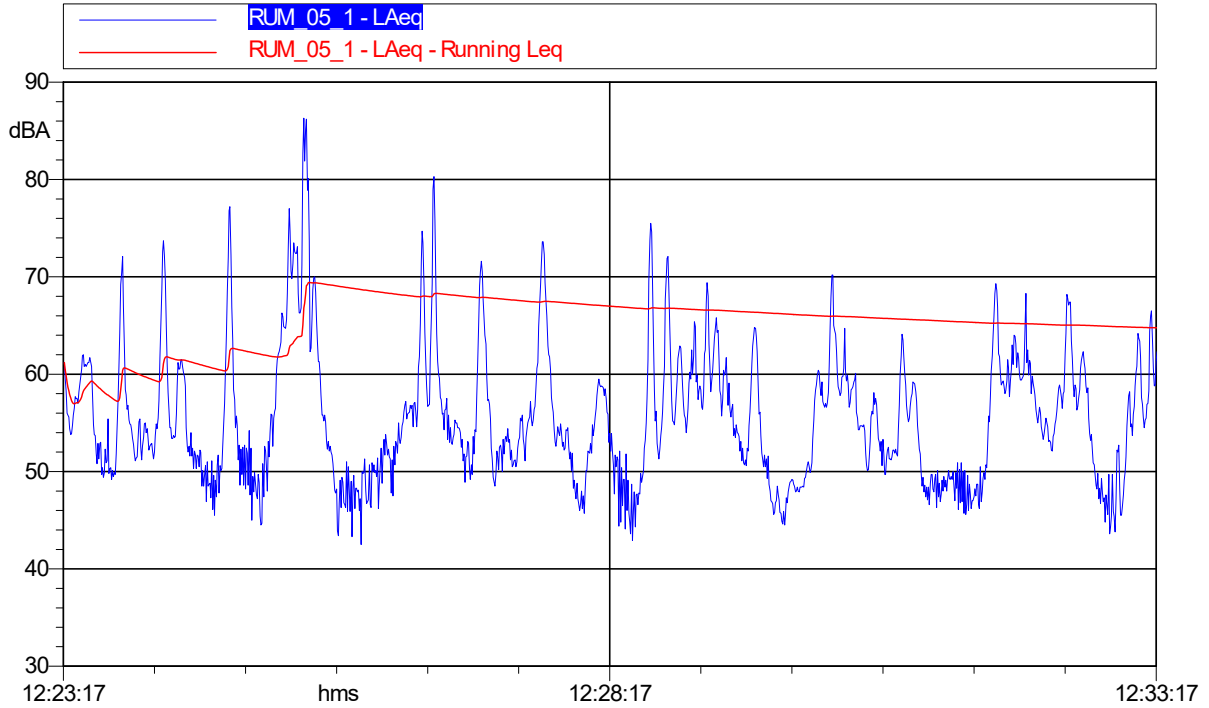
**RISULTATI INDAGINE FONOMETRICA**

| Intervallo                     | Data       | Ora      | Leq [dBA]   | L max [dBA] | L min [dBA] | L1          | L5          | L10         | L50         | L90         | L99         |
|--------------------------------|------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1°-Diurno                      | 30/05/2023 | 12:23:17 | 64,6        | 86,3        | 42,5        | 75,0        | 69,5        | 65,8        | 54,2        | 47,1        | 43,6        |
| 2°-Diurno                      | 30/05/2023 | 18:13:02 | 60,0        | 75,8        | 41,0        | 69,9        | 66,8        | 63,8        | 54,6        | 48,7        | 42,8        |
| <b>Media dei valori diurni</b> |            |          | <b>62,9</b> | <b>83,7</b> | <b>41,8</b> | <b>73,2</b> | <b>68,4</b> | <b>64,9</b> | <b>54,4</b> | <b>48,0</b> | <b>43,2</b> |

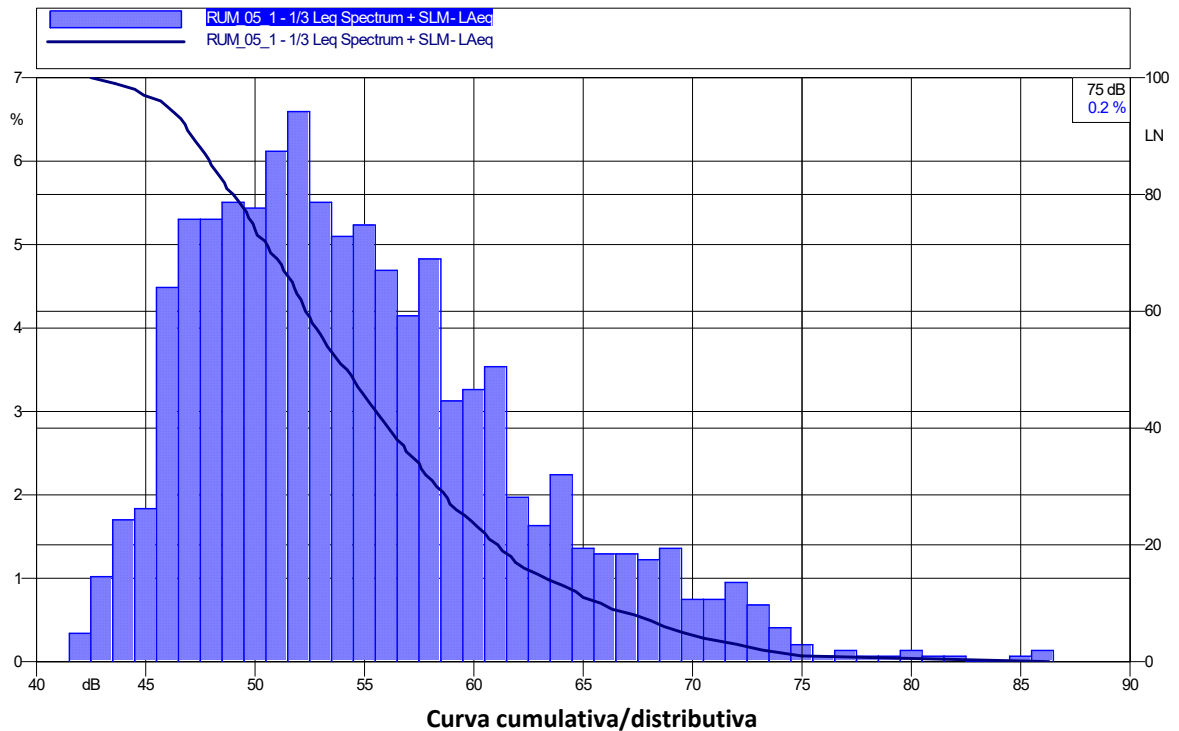
**NOTE**

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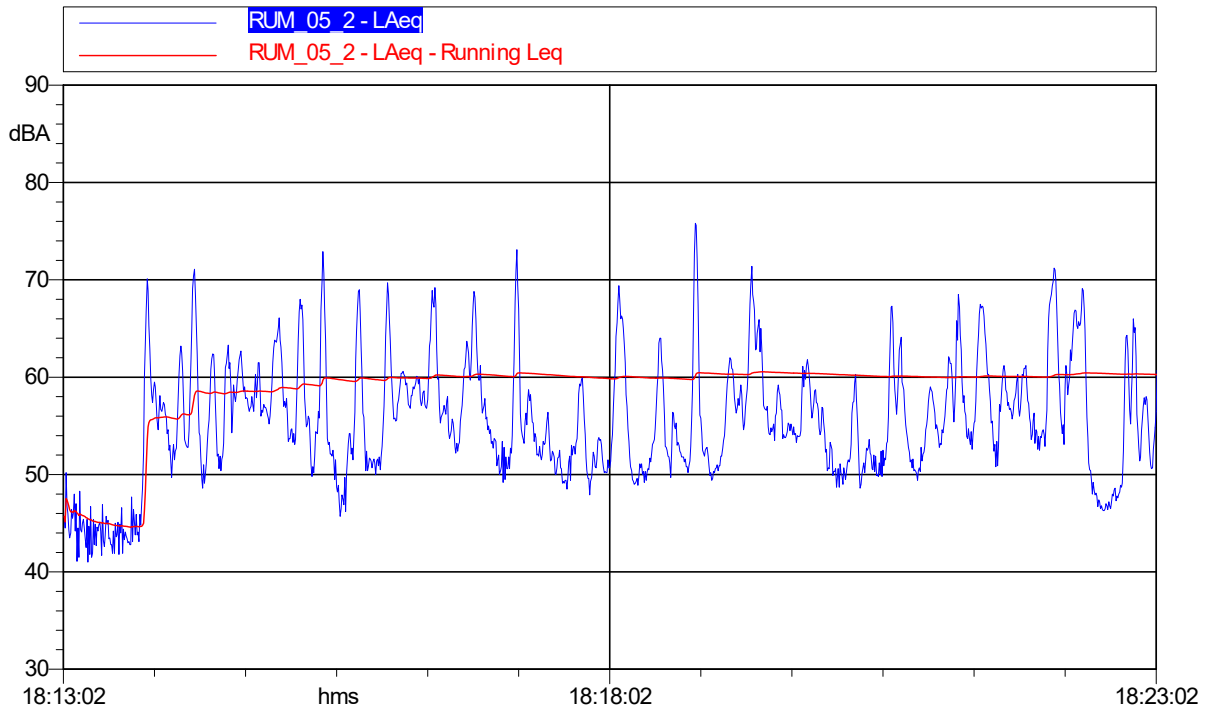
OUTPUT GRAFICO DI MISURA – TIME HISTORY SPOT E CURVA DISTRIBUTIVA / CUMULATIVA – VALORI IN DB(A)



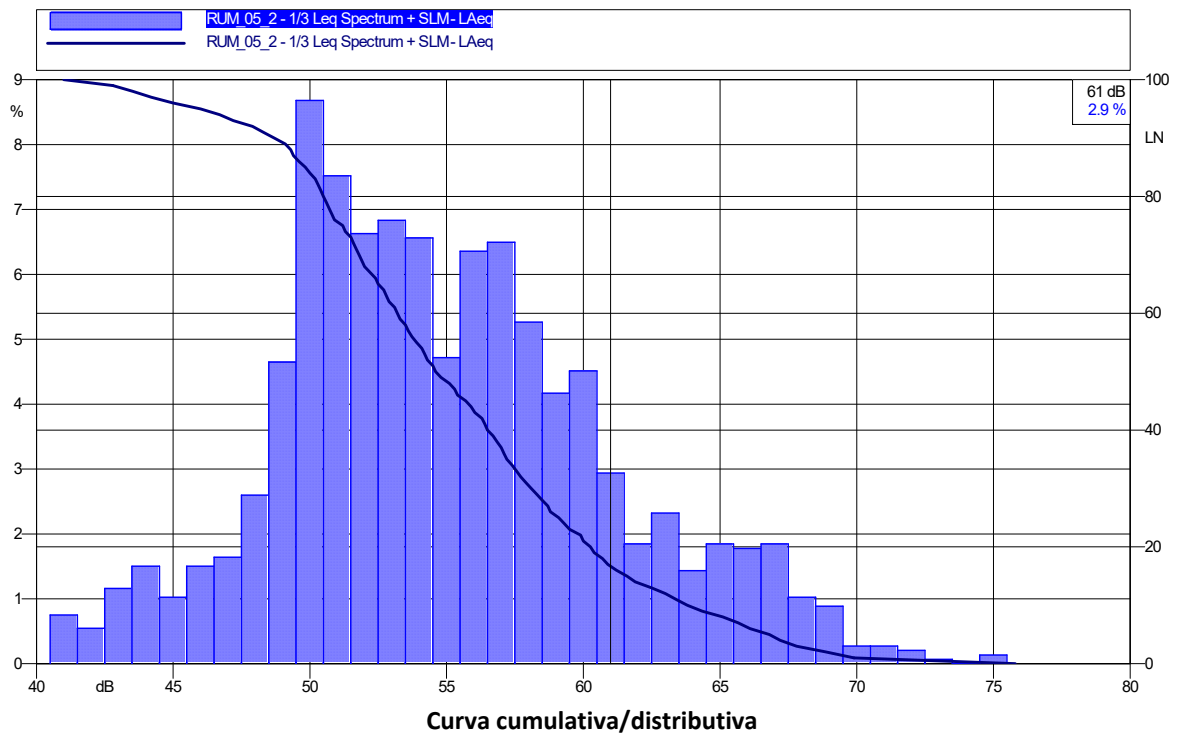
Punto 5 Time History spot\_1



OUTPUT GRAFICO DI MISURA – TIME HISTORY SPOT E CURVA DISTRIBUTIVA / CUMULATIVA – VALORI IN DB(A)



Punto 5 Time History spot\_2

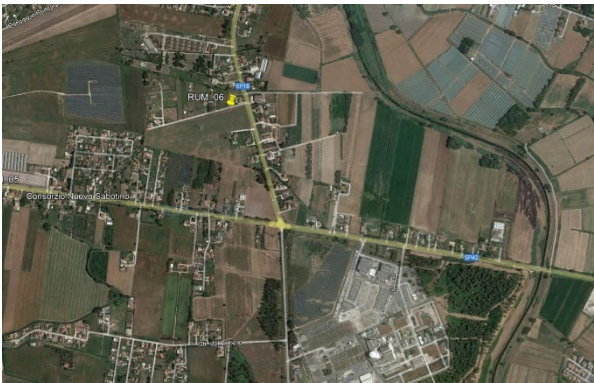




**RAPPORTO DI MISURA RILIEVI ACUSTICI – INDAGINI SPOT**

**CARATTERISTICHE PUNTO DI MISURA**

|                  |                                            |                |                                                              |
|------------------|--------------------------------------------|----------------|--------------------------------------------------------------|
| Punto di misura  | <b>RUM_06</b>                              | Coordinate     | <b>Latitudine 41°26'10.79"N<br/>Longitudine 12°48'0.12"E</b> |
| Regione          | <b>Lazio</b>                               | Provincia      | <b>Latina</b>                                                |
| Comune           | <b>Latina</b>                              | Località       | <b>Strada Macchia Grande</b>                                 |
| Indirizzo        | <b>Strada Macchia Grande 7 bis</b>         | Operatore      | <b>S.de Fabritiis (Enteca n.7297)</b>                        |
| Data             | <b>30/05/2023</b>                          | Strumentazione | <b>L&amp;D LxT</b>                                           |
| Sorgente preval. | <b>Traffico stradale, avifauna, cicale</b> | Altezza Mic.   | <b>1,5 m</b>                                                 |

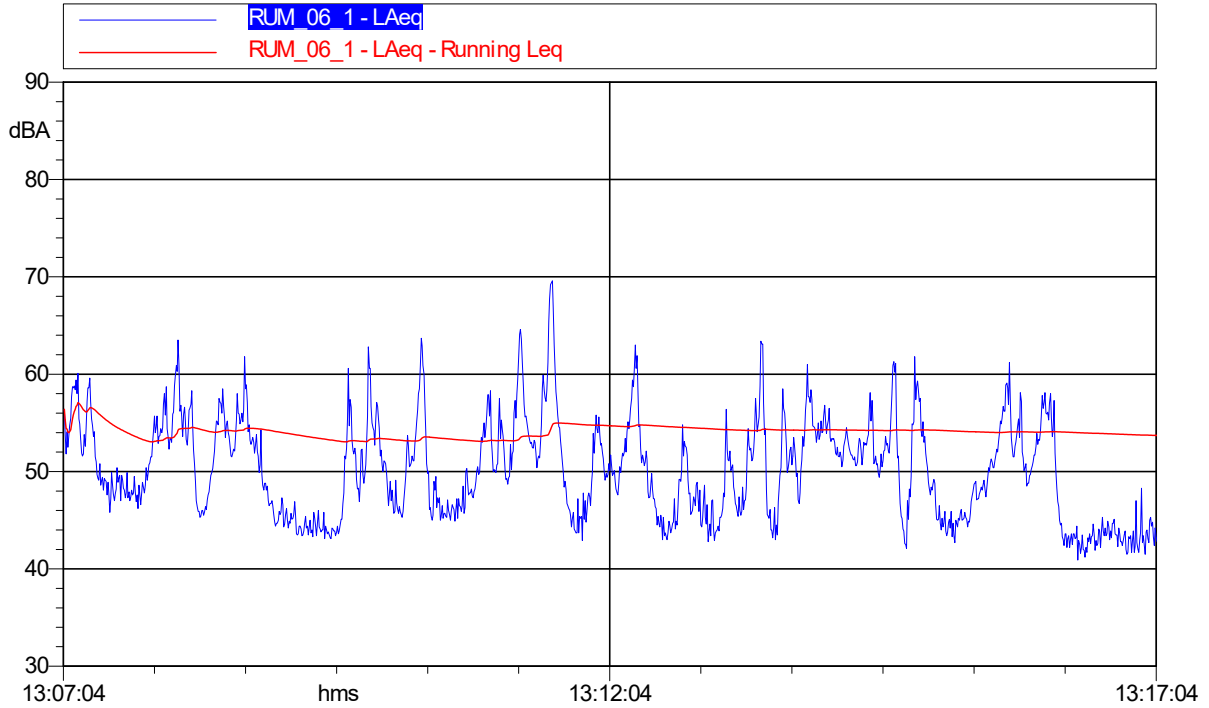


**RISULTATI INDAGINE FONOMETRICA**

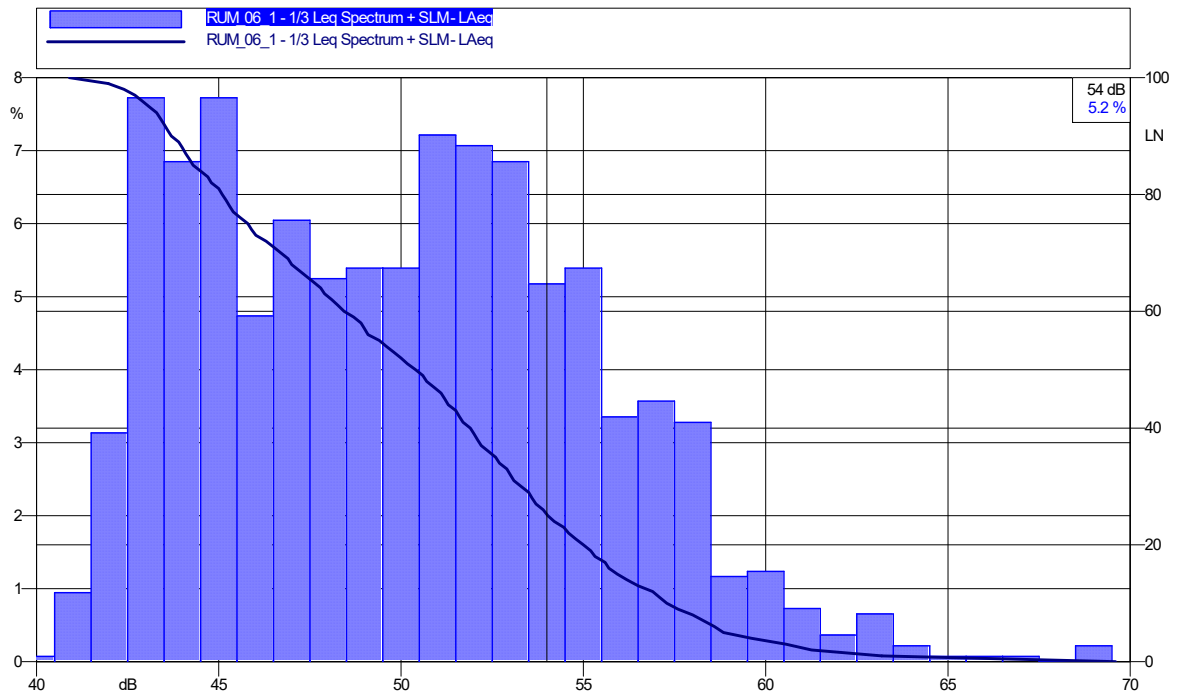
| Intervallo                     | Data       | Ora      | Leq [dBA]   | L max [dBA] | L min [dBA] | L1          | L5          | L10         | L50         | L90         | L99         |
|--------------------------------|------------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| 1°-Diurno                      | 30/05/2023 | 13:07:04 | 53,9        | 69,6        | 40,9        | 63,2        | 58,8        | 57,3        | 50,4        | 43,7        | 42,0        |
| 2°-Diurno                      | 30/05/2023 | 18:36:28 | 55,1        | 72,8        | 42,0        | 65,6        | 59,8        | 57,8        | 51,1        | 46,3        | 43,9        |
| <b>Media dei valori diurni</b> |            |          | <b>54,5</b> | <b>71,5</b> | <b>41,5</b> | <b>64,6</b> | <b>59,3</b> | <b>57,6</b> | <b>50,8</b> | <b>45,2</b> | <b>43,1</b> |

**NOTE**

OUTPUT GRAFICO DI MISURA – TIME HISTORY SPOT E CURVA DISTRIBUTIVA / CUMULATIVA – VALORI IN DB(A)

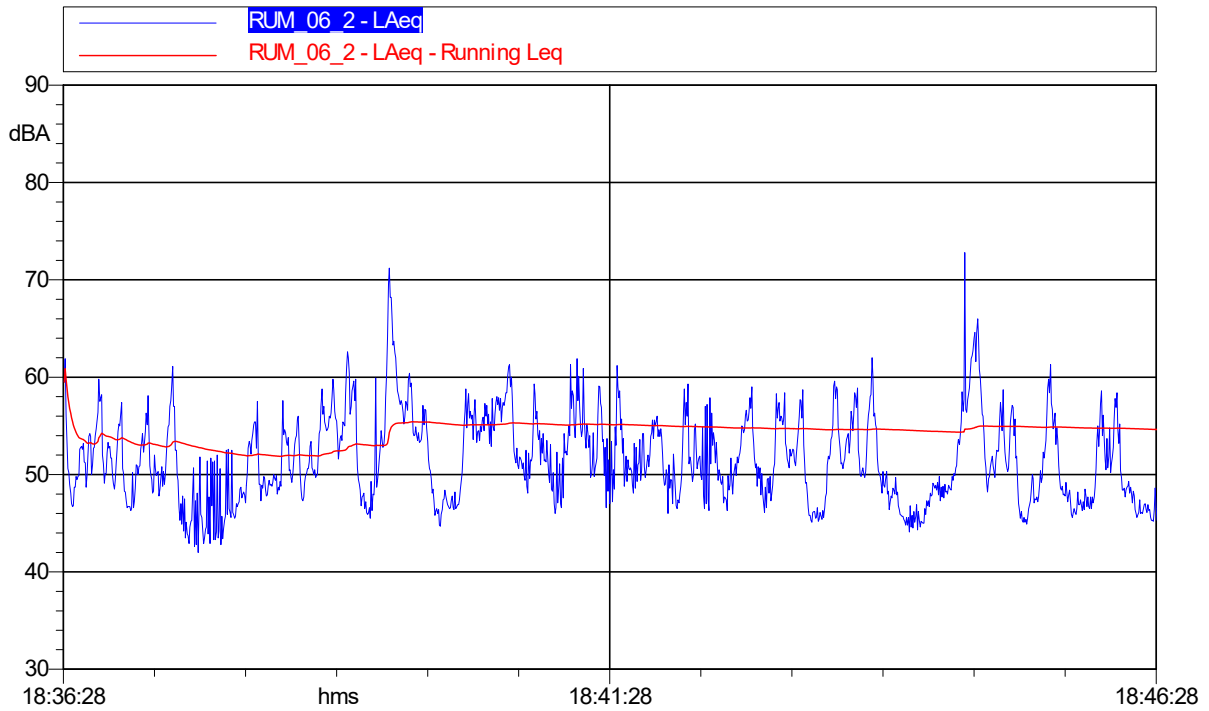


Punto 6 Time History spot\_1

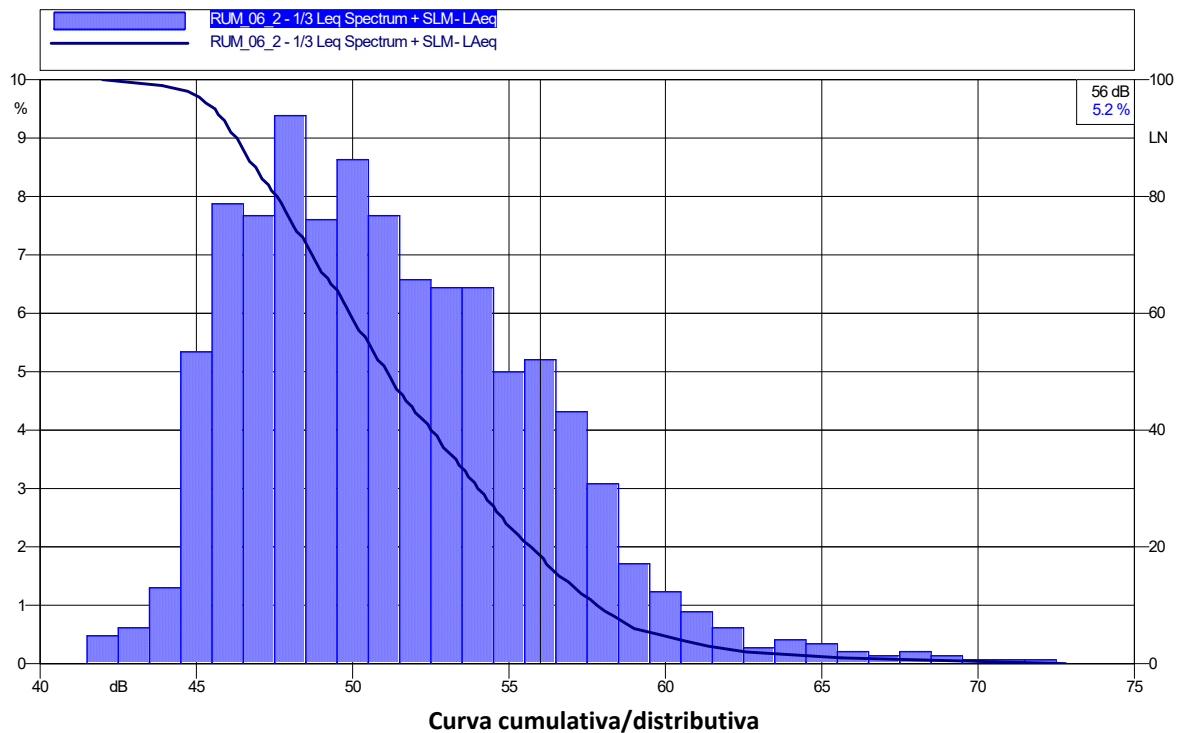


Curva cumulativa/distributiva

OUTPUT GRAFICO DI MISURA – TIME HISTORY SPOT E CURVA DISTRIBUTIVA / CUMULATIVA – VALORI IN DB(A)



Punto 6 Time History spot\_2



## CERTIFICATO DI TARATURA DELLA STRUMENTAZIONE

# Calibration Certificate

Certificate Number 2022015834

**Customer:**

Spectra  
Via J.F. Kennedy, 19  
Vimercate, MB 20871, Italy

|                          |                                                                                 |                         |                      |
|--------------------------|---------------------------------------------------------------------------------|-------------------------|----------------------|
| <b>Model Number</b>      | LxT1                                                                            | <b>Procedure Number</b> | D0001.8384           |
| <b>Serial Number</b>     | 0007232                                                                         | <b>Technician</b>       | Jacob Cannon         |
| <b>Test Results</b>      | Pass                                                                            | <b>Calibration Date</b> | 14 Dec 2022          |
| <b>Initial Condition</b> | As Manufactured                                                                 | <b>Calibration Due</b>  |                      |
| <b>Description</b>       | SoundTrack LxT Class 1<br>Class 1 Sound Level Meter<br>Firmware Revision: 2.404 | <b>Temperature</b>      | 23.49 °C ± 0.25 °C   |
|                          |                                                                                 | <b>Humidity</b>         | 50.6 %RH ± 2.0 %RH   |
|                          |                                                                                 | <b>Static Pressure</b>  | 86.35 kPa ± 0.13 kPa |

**Evaluation Method**      **Tested with:**      **Data reported in dB re 20 µPa.**

Larson Davis PRMLxT1L. S/N 077681  
Larson Davis CAL200. S/N 9079  
Larson Davis CAL291. S/N 0108  
PCB 377B02. S/N 342971

**Compliance Standards**      Compliant to Manufacturer Specifications and the following standards when combined with Calibration Certificate from procedure D0001.8378:

|                        |                            |
|------------------------|----------------------------|
| IEC 60651:2001 Type 1  | ANSI S1.4-2014 Class 1     |
| IEC 60804:2000 Type 1  | ANSI S1.4 (R2006) Type 1   |
| IEC 61252:2002         | ANSI S1.11 (R2009) Class 1 |
| IEC 61260:2001 Class 1 | ANSI S1.25 (R2007)         |
| IEC 61672:2013 Class 1 | ANSI S1.43 (R2007) Type 1  |

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the International System of Units (SI) through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2017.

**Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.**

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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Correction data from Larson Davis LxT Manual for SoundTrack LxT & SoundExpert LxT, I770.01 Rev O Supporting Firmware Version 4.0.5, 2019-09-10

For 1/4" microphones, the Larson Davis ADP024 1/4" to 1/2" adaptor is used with the calibrators and the Larson Davis ADP043 1/4" to

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716-684-0001



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D0001.8406 Rev G

## CERTIFICATO DI TARATURA DELLA STRUMENTAZIONE

# Calibration Certificate

Certificate Number 2022014525

Customer:

Spectra

Via J.F. Kennedy, 19  
Vimercate, MB 20871, Italy

**Model Number** CAL200

**Serial Number** 20730

**Test Results** Pass

**Initial Condition** As Manufactured

**Description** Larson Davis CAL200 Acoustic Calibrator

**Procedure Number** D0001.8386

**Technician** Scott Montgomery

**Calibration Date** 10 Nov 2022

**Calibration Due**

**Temperature** 22 °C ± 0.3 °C

**Humidity** 37 %RH ± 3 %RH

**Static Pressure** 101.2 kPa ± 1 kPa

**Evaluation Method** The data is acquired by the insert voltage calibration method using the reference microphone's open circuit sensitivity. Data reported in dB re 20 µPa.

**Compliance Standards** Compliant to Manufacturer Specifications per D0001.8190 and the following standards:  
IEC 60942:2017 ANSI S1.40-2006

Issuing lab certifies that the instrument described above meets or exceeds all specifications as stated in the referenced procedure (unless otherwise noted). It has been calibrated using measurement standards traceable to the SI through the National Institute of Standards and Technology (NIST), or other national measurement institutes, and meets the requirements of ISO/IEC 17025:2017. **Test points marked with a ‡ in the uncertainties column do not fall within this laboratory's scope of accreditation.**

The quality system is registered to ISO 9001:2015.

This calibration is a direct comparison of the unit under test to the listed reference standards and did not involve any sampling plans to complete. No allowance has been made for the instability of the test device due to use, time, etc. Such allowances would be made by the customer as needed.

The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level.

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| Description                                        | Standards Used |            |              |
|----------------------------------------------------|----------------|------------|--------------|
|                                                    | Cal Date       | Cal Due    | Cal Standard |
| Agilent 34401A DMM                                 | 07/07/2022     | 07/07/2023 | 001021       |
| Larson Davis Model 2900 Real Time Analyzer         | 03/31/2022     | 03/31/2023 | 001051       |
| Microphone Calibration System                      | 02/23/2022     | 02/23/2023 | 005446       |
| 1/2" Preamplifier                                  | 08/23/2022     | 08/23/2023 | 006506       |
| Larson Davis 1/2" Preamplifier 7-pin LEMO          | 08/08/2022     | 08/08/2023 | 006507       |
| 1/2 inch Microphone - RI - 200V                    | 03/24/2022     | 03/24/2023 | 006511       |
| Hart Scientific 2626-S Humidity/Temperature Sensor | 07/29/2021     | 01/29/2023 | 006946       |
| Pressure Sensor                                    | 03/15/2022     | 12/14/2022 | PCB0087008   |

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D0001.8410 Rev E