

**METROLINK**

Integrated Transport. Integrated Life.

**A13.2**

**Baseline Noise  
Monitoring Report –  
Appendices**

## **APPENDIX A**

### **Calibration Certificate for Monitoring Equipment**

**Rion NL-52 S/N 1076328**



**CERTIFICATE  
OF CALIBRATION**



0653


**Date of Issue: 15 August 2018**

**Certificate Number: UCRT18/1836**

Issued by:  
ANV Measurement Systems  
Beaufort Court  
17 Roebuck Way  
Milton Keynes MK5 8HL  
Telephone 01908 642846 Fax 01908 642814  
E-Mail: info@noise-and-vibration.co.uk  
Web: www.noise-and-vibration.co.uk  
Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Page 1 of 2 Pages

Approved Signatory



J. Harriman

Customer                   AWN Consulting Limited  
The Tecpro Building  
IDA Business and Technology Park  
Dublin 17  
Ireland

Order No.                   1869  
Description                Sound Level Meter / Pre-amp / Microphone / Associated Calibrator  
Identification

Manufacturer	Instrument	Type	Serial No. / Version
Rion	Sound Level Meter	NL-52	01076328
Rion	Firmware		1.9
Rion	Pre Amplifier	NH-25	76545
Rion	Microphone	UC-59	12271
Rion	Calibrator	NC-74	34536109
	Calibrator adaptor type if applicable		NC-74-002

Performance Class        1  
Test Procedure            TP 2.SLM 61672-3 TPS-49  
*Procedures from IEC 61672-3:2006 were used to perform the periodic tests.*  
Type Approved to IEC 61672-1:2002    YES            Approval Number        21.21 / 13.02  
*If YES above there is public evidence that the SLM has successfully completed the applicable pattern evaluation tests of IEC 61672-2:2003*  
Date Received            13 August 2018                            ANV Job No.        UKAS18/08513  
Date Calibrated           15 August 2018

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2006, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2:2003, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2002.

Previous Certificate	Dated	Certificate No.	Laboratory
			Initial Calibration

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

<b>CERTIFICATE OF CALIBRATION</b>	<b>Certificate Number</b> <b>UCRT18/1836</b>
	Page 2 of 2 Pages
UKAS Accredited Calibration Laboratory No. 0653	

Sound Level Meter Instruction manual and data used to adjust the sound levels indicated.

SLM instruction manual title	Sound Level Meter	NL-42 / NL-52
SLM instruction manual ref / issue		11-03
SLM instruction manual source	Manufacturer	
Internet download date if applicable	N/A	
Case corrections available	Yes	
Uncertainties of case corrections	Yes	
Source of case data	Manufacturer	
Wind screen corrections available	Yes	
Uncertainties of wind screen corrections	Yes	
Source of wind screen data	Manufacturer	
Mic pressure to free field corrections	Yes	
Uncertainties of Mic to F.F. corrections	Yes	
Source of Mic to F.F. corrections	Manufacturer	
Total expanded uncertainties within the requirements of IEC 61672-1:2002	Yes	
Specified or equivalent Calibrator	Specified	
Customer or Lab Calibrator	Lab Calibrator	
Calibrator adaptor type if applicable	NC-74-002	
Calibrator cal. date	06 August 2018	
Calibrator cert. number	UCRT18/1784	
Calibrator cal cert issued by	0653	
Calibrator SPL @ STP	93.99	dB Calibration reference sound pressure level
Calibrator frequency	1001.97	Hz Calibration check frequency
Reference level range	25 - 130	dB

Accessories used or corrected for during calibration - Extension Cable & Wind Shield WS-15  
 Note - if a pre-amp extension cable is listed then it was used between the SLM and the pre-amp.

Environmental conditions during tests	Start	End	
Temperature	22.84	22.87	± 0.30 °C
Humidity	49.8	49.7	± 3.00 %RH
Ambient Pressure	100.67	100.63	± 0.03 kPa

Response to associated Calibrator at the environmental conditions above.			
Initial indicated level	93.9	dB	Adjusted indicated level
			94.0 dB
The uncertainty of the associated calibrator supplied with the sound level meter ±			0.10 dB

Self Generated Noise	This test is currently not performed by this Lab.		
Microphone installed (if requested by customer) = Less Than	N/A	dB	A Weighting
Uncertainty of the microphone installed self generated noise ±	N/A	dB	

Microphone replaced with electrical input device -	UR = Under Range indicated		
Weighting	A	C	Z
	11.5 dB UR	15.5 dB UR	21.4 dB UR
Uncertainty of the electrical self generated noise ±	0.12 dB		

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $k=2$ , providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

For the test of the frequency weightings as per paragraph 12. of IEC 61672-3:2006 the actual microphone free field response was used.

The acoustical frequency tests of a frequency weighting as per paragraph 11 of IEC 61672-3:2006 were carried out using an electrostatic actuator.

..... END .....

Calibrated by: A Patel R 1

Additional Comments

None

**Rion NL-52 S/N 586940**



**CERTIFICATE  
OF CALIBRATION**



**Date of Issue: 15 August 2018**

**Certificate Number: UCRT18/1831**

Issued by:  
ANV Measurement Systems  
Beaufort Court  
17 Roebuck Way  
Milton Keynes MK5 8HL  
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Web: www.noise-and-vibration.co.uk  
Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Page 1 of 2 Pages
Approved Signatory    J. Harriman

**Customer**                   AWN Consulting Limited  
The Tecpro Building  
IDA Business and Technology Park  
Dublin 17  
Ireland

<b>Order No.</b>	1869																												
<b>Description</b>	Sound Level Meter / Pre-amp / Microphone / Associated Calibrator																												
<b>Identification</b>	<table border="0"> <thead> <tr> <th><i>Manufacturer</i></th> <th><i>Instrument</i></th> <th><i>Type</i></th> <th><i>Serial No. / Version</i></th> </tr> </thead> <tbody> <tr> <td>Rion</td> <td>Sound Level Meter</td> <td>NL-52</td> <td>00586940</td> </tr> <tr> <td>Rion</td> <td>Firmware</td> <td></td> <td>1.9</td> </tr> <tr> <td>Rion</td> <td>Pre Amplifier</td> <td>NH-25</td> <td>87059</td> </tr> <tr> <td>Rion</td> <td>Microphone</td> <td>UC-59</td> <td>13402</td> </tr> <tr> <td>Rion</td> <td>Calibrator</td> <td>NC-74</td> <td>34536109</td> </tr> <tr> <td></td> <td>Calibrator adaptor type if applicable</td> <td></td> <td>NC-74-002</td> </tr> </tbody> </table>	<i>Manufacturer</i>	<i>Instrument</i>	<i>Type</i>	<i>Serial No. / Version</i>	Rion	Sound Level Meter	NL-52	00586940	Rion	Firmware		1.9	Rion	Pre Amplifier	NH-25	87059	Rion	Microphone	UC-59	13402	Rion	Calibrator	NC-74	34536109		Calibrator adaptor type if applicable		NC-74-002
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Rion	Sound Level Meter	NL-52	00586940																										
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Rion	Calibrator	NC-74	34536109																										
	Calibrator adaptor type if applicable		NC-74-002																										

**Performance Class**    1  
**Test Procedure**        TP 2.SLM 61672-3 TPS-49  
*Procedures from IEC 61672-3:2006 were used to perform the periodic tests.*

**Type Approved to IEC 61672-1:2002**    **YES**      **Approval Number**    21.21 / 13.02  
*If YES above there is public evidence that the SLM has successfully completed the applicable pattern evaluation tests of IEC 61672-2:2003*

**Date Received**        13 August 2018                            **ANV Job No.**      UKAS18/08513  
**Date Calibrated**      15 August 2018

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2006, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2:2003, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2002.

<b>Previous Certificate</b>	<i>Dated</i>	<i>Certificate No.</i>	<i>Laboratory</i>
	Initial Calibration		

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<b>CERTIFICATE OF CALIBRATION</b>	<b>Certificate Number</b> <b>UCRT18/1831</b>
	Page 2 of 2 Pages

Sound Level Meter Instruction manual and data used to adjust the sound levels indicated.

SLM instruction manual title	Sound Level Meter	NL-42 / NL-52
SLM instruction manual ref / issue		11-03
SLM instruction manual source	Manufacturer	
Internet download date if applicable		N/A
Case corrections available		Yes
Uncertainties of case corrections		Yes
Source of case data	Manufacturer	
Wind screen corrections available		Yes
Uncertainties of wind screen corrections		Yes
Source of wind screen data	Manufacturer	
Mic pressure to free field corrections		Yes
Uncertainties of Mic to F.F. corrections		Yes
Source of Mic to F.F. corrections	Manufacturer	
Total expanded uncertainties within the requirements of IEC 61672-1:2002	Yes	
Specified or equivalent Calibrator		Specified
Customer or Lab Calibrator		Lab Calibrator
Calibrator adaptor type if applicable		NC-74-002
Calibrator cal. date		06 August 2018
Calibrator cert. number		UCRT18/1784
Calibrator cal cert issued by		0653
Calibrator SPL @ STP	93.99	dB Calibration reference sound pressure level
Calibrator frequency	1001.97	Hz Calibration check frequency
Reference level range	25 - 130	dB

Accessories used or corrected for during calibration - Extension Cable & Wind Shield WS-15  
 Note - if a pre-amp extension cable is listed then it was used between the SLM and the pre-amp.

Environmental conditions during tests	Start	End	
Temperature	21.89	22.52	± 0.30 °C
Humidity	61.4	53.7	± 3.00 %RH
Ambient Pressure	100.71	100.68	± 0.03 kPa

Response to associated Calibrator at the environmental conditions above.

Initial indicated level	94.0	dB	Adjusted indicated level	94.0	dB
The uncertainty of the associated calibrator supplied with the sound level meter ±				0.10	dB

Self Generated Noise This test is currently not performed by this Lab.

Microphone installed (if requested by customer) = Less Than	N/A	dB	A Weighting
Uncertainty of the microphone installed self generated noise ±	N/A	dB	

Microphone replaced with electrical input device - UR = Under Range indicated

Weighting	A	C	Z
	11.4	15.5	21.5
	dB	dB	dB
	UR	UR	UR

Uncertainty of the electrical self generated noise ± 0.12 dB

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $k=2$ , providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

For the test of the frequency weightings as per paragraph 12. of IEC 61672-3:2006 the actual microphone free field response was used.

The acoustical frequency tests of a frequency weighting as per paragraph 11 of IEC 61672-3:2006 were carried out using an electrostatic actuator.

END

Calibrated by: A Patel

R 1

Additional Comments

None

**Rion NL-52 S/N 586944**



**CERTIFICATE OF CALIBRATION**



**Date of Issue: 16 August 2018**

**Certificate Number: UCRT18/1839**

Issued by:  
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 Acoustic Noise and Vibration Ltd trading as ANV Measurement Systems

Page 1 of 2 Pages

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*J. Harriman*

J. Harriman

**Customer**                      AWN Consulting Limited  
 The Tecpro Building  
 IDA Business and Technology Park  
 Dublin 17  
 Ireland

<b>Order No.</b>	1869			
<b>Description</b>	Sound Level Meter / Pre-amp / Microphone / Associated Calibrator			
<b>Identification</b>	<i>Manufacturer</i>	<i>Instrument</i>	<i>Type</i>	<i>Serial No. / Version</i>
	Rion	Sound Level Meter	NL-52	00586944
	Rion	Firmware		1.9
	Rion	Pre Amplifier	NH-25	87063
	Rion	Microphone	UC-59	13407
	Rion	Calibrator	NC-74	34536109
		Calibrator adaptor type if applicable		NC-74-002

**Performance Class**            1

**Test Procedure**                TP 2.SLM 61672-3 TPS-49  
*Procedures from IEC 61672-3:2006 were used to perform the periodic tests.*

**Type Approved to IEC 61672-1:2002**    YES    Approval Number    21.21 / 13.02  
*If YES above there is public evidence that the SLM has successfully completed the applicable pattern evaluation tests of IEC 61672-2:2003*

**Date Received**                15 August 2018                      ANV Job No.    UKAS18/08525

**Date Calibrated**               16 August 2018

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2006, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2:2003, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2002.

<b>Previous Certificate</b>	<i>Dated</i>	<i>Certificate No.</i>	<i>Laboratory</i>
	Initial Calibration		

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<b>CERTIFICATE OF CALIBRATION</b>	<b>Certificate Number</b> UCRT18/1839
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UKAS Accredited Calibration Laboratory No. 0653	

Sound Level Meter Instruction manual and data used to adjust the sound levels indicated.

SLM instruction manual title	Sound Level Meter	NL-42 / NL-52
SLM instruction manual ref / issue		11-03
SLM instruction manual source	Manufacturer	
Internet download date if applicable		N/A
Case corrections available	Yes	
Uncertainties of case corrections	Yes	
Source of case data	Manufacturer	
Wind screen corrections available	Yes	
Uncertainties of wind screen corrections	Yes	
Source of wind screen data	Manufacturer	
Mic pressure to free field corrections	Yes	
Uncertainties of Mic to F.F. corrections	Yes	
Source of Mic to F.F. corrections	Manufacturer	
Total expanded uncertainties within the requirements of IEC 61672-1:2002	Yes	
Specified or equivalent Calibrator	Specified	
Customer or Lab Calibrator	Lab Calibrator	
Calibrator adaptor type if applicable	NC-74-002	
Calibrator cal. date	06 August 2018	
Calibrator cert. number	UCRT18/1784	
Calibrator cal cert issued by	0653	
Calibrator SPL @ STP	93.99	dB Calibration reference sound pressure level
Calibrator frequency	1001.97	Hz Calibration check frequency
Reference level range	25 - 130	dB

Accessories used or corrected for during calibration - Extension Cable & Wind Shield WS-15  
 Note - if a pre-amp extension cable is listed then it was used between the SLM and the pre-amp.

Environmental conditions during tests	Start	End	
Temperature	21.53	22.10	± 0.30 °C
Humidity	60.5	62.5	± 3.00 %RH
Ambient Pressure	100.16	100.15	± 0.03 kPa

Response to associated Calibrator at the environmental conditions above.

Initial indicated level	94.0	dB	Adjusted indicated level	94.0	dB	
The uncertainty of the associated calibrator supplied with the sound level meter ±			0.10			dB

Self Generated Noise This test is currently not performed by this Lab.

Microphone installed (if requested by customer) = Less Than	N/A	dB	A Weighting
Uncertainty of the microphone installed self generated noise ±	N/A	dB	

Microphone replaced with electrical input device -	UR = Under Range indicated					
Weighting	A		C		Z	
	11.3	dB UR	15.3	dB UR	21.4	dB UR

Uncertainty of the electrical self generated noise ±	0.12	dB
--	------	----

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $k=2$ , providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

For the test of the frequency weightings as per paragraph 12. of IEC 61672-3:2006 the actual microphone free field response was used.

The acoustical frequency tests of a frequency weighting as per paragraph 11 of IEC 61672-3:2006 were carried out using an electrostatic actuator.

END

Calibrated by: A Patel

R 1

Additional Comments

None



**Rion NL-52 S/N 1076330**



**CERTIFICATE  
OF CALIBRATION**




0653

**Date of Issue: 15 August 2018**

**Certificate Number: UCRT18/1834**

Issued by:  
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17 Roebuck Way  
Milton Keynes MK5 8HL  
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Web: www.noise-and-vibration.co.uk  
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Approved Signatory    J. Harriman

**Customer**                   AWN Consulting Limited  
The Tecpro Building  
IDA Business and Technology Park  
Dublin 17  
Ireland

**Order No.**                   1869  
**Description**               Sound Level Meter / Pre-amp / Microphone / Associated Calibrator  
**Identification**

<i>Manufacturer</i>	<i>Instrument</i>	<i>Type</i>	<i>Serial No. / Version</i>
Rion	Sound Level Meter	NL-52	01076330
Rion	Firmware		1.9
Rion	Pre Amplifier	NH-25	76547
Rion	Microphone	UC-59	12273
Rion	Calibrator	NC-74	34536109
	Calibrator adaptor type if applicable		NC-74-002

**Performance Class**       1  
**Test Procedure**           TP 2.SLM 61672-3 TPS-49  
*Procedures from IEC 61672-3:2006 were used to perform the periodic tests.*  
**Type Approved to IEC 61672-1:2002**   **YES**    **Approval Number**    21.21 / 13.02  
*If YES above there is public evidence that the SLM has successfully completed the applicable pattern evaluation tests of IEC 61672-2:2003*  
**Date Received**           13 August 2018                    **ANV Job No.**        UKAS18/08513  
**Date Calibrated**         15 August 2018

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2006, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2:2003, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2002.

<b>Previous Certificate</b>	<i>Dated</i>	<i>Certificate No.</i>	<i>Laboratory</i>
	Initial Calibration		

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<b>CERTIFICATE OF CALIBRATION</b>	<b>Certificate Number</b>
	<b>UCRT18/1834</b>
	Page 2 of 2 Pages

UKAS Accredited Calibration Laboratory No. 0653

Sound Level Meter Instruction manual and data used to adjust the sound levels indicated.

SLM instruction manual title	Sound Level Meter	NL-42 / NL-52
SLM instruction manual ref / issue		11-03
SLM instruction manual source	Manufacturer	
Internet download date if applicable	N/A	
Case corrections available	Yes	
Uncertainties of case corrections	Yes	
Source of case data	Manufacturer	
Wind screen corrections available	Yes	
Uncertainties of wind screen corrections	Yes	
Source of wind screen data	Manufacturer	
Mic pressure to free field corrections	Yes	
Uncertainties of Mic to F.F. corrections	Yes	
Source of Mic to F.F. corrections	Manufacturer	
Total expanded uncertainties within the requirements of IEC 61672-1:2002	Yes	
Specified or equivalent Calibrator	Specified	
Customer or Lab Calibrator	Lab Calibrator	
Calibrator adaptor type if applicable	NC-74-002	
Calibrator cal. date	06 August 2018	
Calibrator cert. number	UCRT18/1784	
Calibrator cal cert issued by	0653	
Calibrator SPL @ STP	93.99	dB Calibration reference sound pressure level
Calibrator frequency	1001.97	Hz Calibration check frequency
Reference level range	25 - 130	dB

Accessories used or corrected for during calibration - Extension Cable & Wind Shield WS-15  
 Note - if a pre-amp extension cable is listed then it was used between the SLM and the pre-amp.

Environmental conditions during tests	Start	End	
Temperature	22.73	22.92	± 0.30 °C
Humidity	52.2	50.8	± 3.00 %RH
Ambient Pressure	100.66	100.65	± 0.03 kPa

Response to associated Calibrator at the environmental conditions above.

Initial indicated level	94.0	dB	Adjusted indicated level	94.0	dB	
The uncertainty of the associated calibrator supplied with the sound level meter ±			0.10			dB

Self Generated Noise This test is currently not performed by this Lab.  
 Microphone installed (if requested by customer) = Less Than N/A dB A Weighting  
 Uncertainty of the microphone installed self generated noise ± N/A dB

Microphone replaced with electrical input device - UR = Under Range indicated

Weighting	A	C	Z
	11.5	15.4	21.6
	dB UR	dB UR	dB UR

Uncertainty of the electrical self generated noise ± 0.12 dB

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor  $k=2$ , providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

For the test of the frequency weightings as per paragraph 12. of IEC 61672-3:2006 the actual microphone free field response was used.

The acoustical frequency tests of a frequency weighting as per paragraph 11 of IEC 61672-3:2006 were carried out using an electrostatic actuator.




..... END .....




Calibrated by: A Patel R 1





Additional Comments  
None




## **APPENDIX B**





### **Unattended Monitoring Equipment Set Up**

Location	Equipment Set up
<p style="text-align: center;"><b>UT1</b></p> <p>Green area to front of residential and farm buildings in Lissenhall Great</p>	
<p style="text-align: center;"><b>UT2</b></p> <p>Green area within grounds of Emmaus Retreat Centre, Estuary</p>	
<p style="text-align: center;"><b>UT3</b></p> <p>Green area to rear of Tigín Montessori School, Estuary</p>	




Location	Equipment Set up
<p><b>UT4</b></p> <p>Rear Garden of residential building in Seatown Park, Swords</p>	
<p><b>UT5</b></p> <p>At side of residential building in Estuary Court, Swords</p>	
<p><b>UT6</b></p> <p>Rear Garden of residential building in Comyn Manor, Swords</p>	




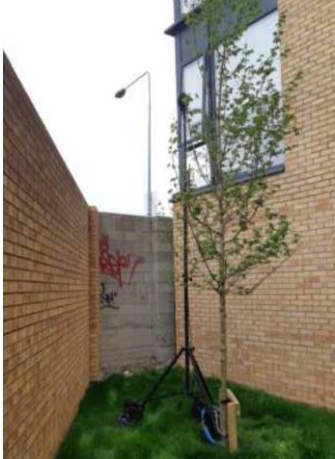
Location	Equipment Set up
<p><b>UT7</b></p> <p>Rear Garden of Kids Inc. Creche, Seatown Walk, Swords</p>	
<p><b>UT8</b></p> <p>Rear Garden of residential building on Chapel Lane, Swords</p>	
<p><b>UT9</b></p> <p>Rear Garden of residential building on Ashley Avenue, Swords</p>	
<p><b>UT10</b></p> <p>Rear Garden of residential building in Castle Grove, Swords</p>	


Location	Equipment Set up
<p><b>UT11</b></p> <p>Rear Garden of residential building in Foxwood, Swords</p>	
<p><b>UT12</b></p> <p>Green Area to rear of commercial building in Airside Business Park, Swords</p>	
<p><b>UT13</b></p> <p>Rear Garden of residential building in Carlton Court, Swords</p>	


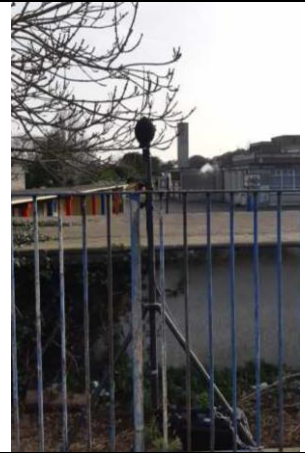


Location	Equipment Set up
<p><b>UT14</b></p> <p>Green area to side of Hotel at Pinnock Hill Roundabout, Swords</p>	
<p><b>UT15</b></p> <p>Green area to front of residential building at Cremona, Swords</p>	
<p><b>UT16</b></p> <p>Rear Garden of residential building in Boroimhe Willows, Airside</p>	
<p><b>UT17</b></p> <p>Carpark area to side of Private Clinic in Nevinstown West</p>	









Location	Equipment Set up
<p><b>UT18</b> Rear Garden of residential building in Boraimhe Hazel, Nevinstown West</p>	 <p>A photograph showing a tall, black antenna mounted on a tripod. The antenna is positioned in a garden area next to a grey stone wall. A small wooden doghouse is visible in the foreground to the left of the tripod. The sky is overcast.</p>
<p><b>UT19</b> Rear Garden of residential building in Nevinstown West off R132</p>	 <p>A photograph showing a tall, black antenna on a tripod. The antenna is located in a garden area with a green lawn and a wooden fence. In the background, there are trees and a residential building under a cloudy sky.</p>
<p><b>UT20</b> Rear Garden of residential building in Nevinstown West off R132</p>	 <p>A photograph showing a tall, black antenna mounted on a vertical pole. The antenna is situated in a garden area with a green lawn and a wooden fence. A street lamp is visible in the background, and the sky is overcast.</p>




Location	Equipment Set up
<p><b>UT21</b></p> <p>Rear garden of the Dublin Airport Church grounds</p>	
<p><b>UT22</b></p> <p>Rear Garden of residential building off Old Airport Road</p>	
<p><b>UT23</b></p> <p>Green area within grounds of residential building in Charter School Hill, Ballymun Cross</p>	
<p><b>UT24</b></p> <p>Garden to rear of residential apartment building at junction of Ballymun Road and Santry Avenue</p>	


Location	Equipment Set up
<p><b>UT25</b></p> <p>Garden to rear of Primary Education building in Ballymun</p>	
<p><b>UT26</b></p> <p>On roof of Civic Centre building in Ballymun</p>	
<p><b>UT27</b></p> <p>Garden to side of Secondary Education building off Ballymun Road</p>	

Location	Equipment Set up
<p><b>UT28</b></p> <p>Paved area to side of CDETB Building off Ballymun Road</p>	
<p><b>UT29</b></p> <p>Carpark area to front of Primary Education building off Ballymun Road</p>	
<p><b>UT30</b></p> <p>Carpark area to side of Church in Whitehall</p>	
<p><b>UT31</b></p> <p>Paved area to front of residential building off R108 in Whitehall</p>	





Location	Equipment Set up	
<p><b>UT32</b></p> <p>Green area within grounds of Special Education building off Ballymun Road in Ballygall</p>		
<p><b>UT33</b></p> <p>Green area to side of Scoil Chaitríona Secondary School building off St. Mobhi Road in Glasnevin</p>		
<p><b>UT34</b></p> <p>Paved area to front of residential building off St. Mobhi Road in Glasnevin</p>		



Location	Equipment Set up
<p><b>UT35</b></p> <p>Green area to side of Scoil mobhí Primary Education building off St. Mobhi Road in Glasnevin</p>	
<p><b>UT36</b></p> <p>Garden to rear of residential building in Claremont Crescent</p>	
<p><b>UT37</b></p> <p>Garden to rear of house on St. Teresa's Rd</p>	
<p><b>UT38</b></p> <p>Garden to rear of residential building in Claremont Lawns</p>	

Location	Equipment Set up
<p><b>UT39</b></p> <p>Garden to rear of residential building in Coke Oven Cottages</p>	
<p><b>UT41</b></p> <p>Garden to rear of residential building off Whitworth Road</p>	
<p><b>UT42</b></p> <p>Green area to front of Mater Hospital on Eccles St</p>	

Location	Equipment Set up
<p><b>UT43</b></p> <p>Green area to front of Mater Hospital on Eccles St</p>	
<p><b>UT44</b></p> <p>Green area to side of St Joseph's Church, Berkeley Road</p>	
<p><b>UT45</b></p> <p>To front of construction site off O'Connell Street Upper</p>	



Location	Equipment Set up	
<p><b>UT46</b></p> <p>To rear of construction site off O'Connell Street Upper</p>		
<p><b>UT47</b></p> <p>To front of construction site/commercial carpark off O'Connell Street Upper</p>		
<p><b>UT48</b></p> <p>On roof of Fire Station building on Townsend Street</p>		
<p><b>UT49</b></p> <p>On roof of residential apartment building at Tara and Townsend Street junction</p>		

Location	Equipment Set up	
<p><b>UT50</b></p> <p>Green area within St. Stephen's Green maintenance compound</p>		
<p><b>UT51</b></p> <p>Paved area withing compound of disused commercial building off Grand Parade in Charlemont</p>		
<p><b>UT52</b></p> <p>Paved area withing compound of disused commercial building off Grand Parade in Charlemont</p>		