Протокол измерений

Лабораторная работа №10

**Определение скорости звука в воздухе**

|  |  |  |  |
| --- | --- | --- | --- |
| Студент группы № |  |  |  |
|  | № группы |  | Фамилия, инициалы |
| Преподаватель каф. № | 3 |  |  |
|  | № кафедры |  | Фамилия, инициалы |

**Параметры приборов**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Прибор | Тип | Предел измерений | Цена деления | Класс точности | Систематическая погрешность |
| Звуковой генератор | ГЗ-118 | 9990Гц | 1 Гц | - | 0,5 Гц |
| Измерительная штанга (линейка) | - | 77,6 см | 1 см | - | 0,5 см |
| Осциллограф | С1-67 | - | - | - | - |
| Термометр | - | 50° | 1° | - | 0,5° |

**Результаты измерений**

*T*=\_\_\_\_\_\_°C

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | *n* | 1 | 2 | 3 | 4 | 5 |
| ν1= \_\_\_\_\_ Гц | *l*1, см |  |  |  |  |  |
| Изображение на осциллографе |  | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |
| ν2=\_\_\_\_ Гц | *l*2, см |  |  |  |  |  |
| Изображение на осциллографе |  | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |
| ν3=\_\_\_\_ Гц | *l*3, см |  |  |  |  |  |
| Изображение на осциллографе |  | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |
| ν4=\_\_\_\_ Гц | *l*4, см |  |  |  |  |  |
| Изображение на осциллографе |  | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | |  |  |  |  | |  |  |  |  | |  |  |  |  | |

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| --- | --- | --- |
|  |  |  |
| Дата | «\_\_\_\_» мая 2020 г. | Подпись студента |
|  |  |  |
|  |  | Подпись преподавателя |