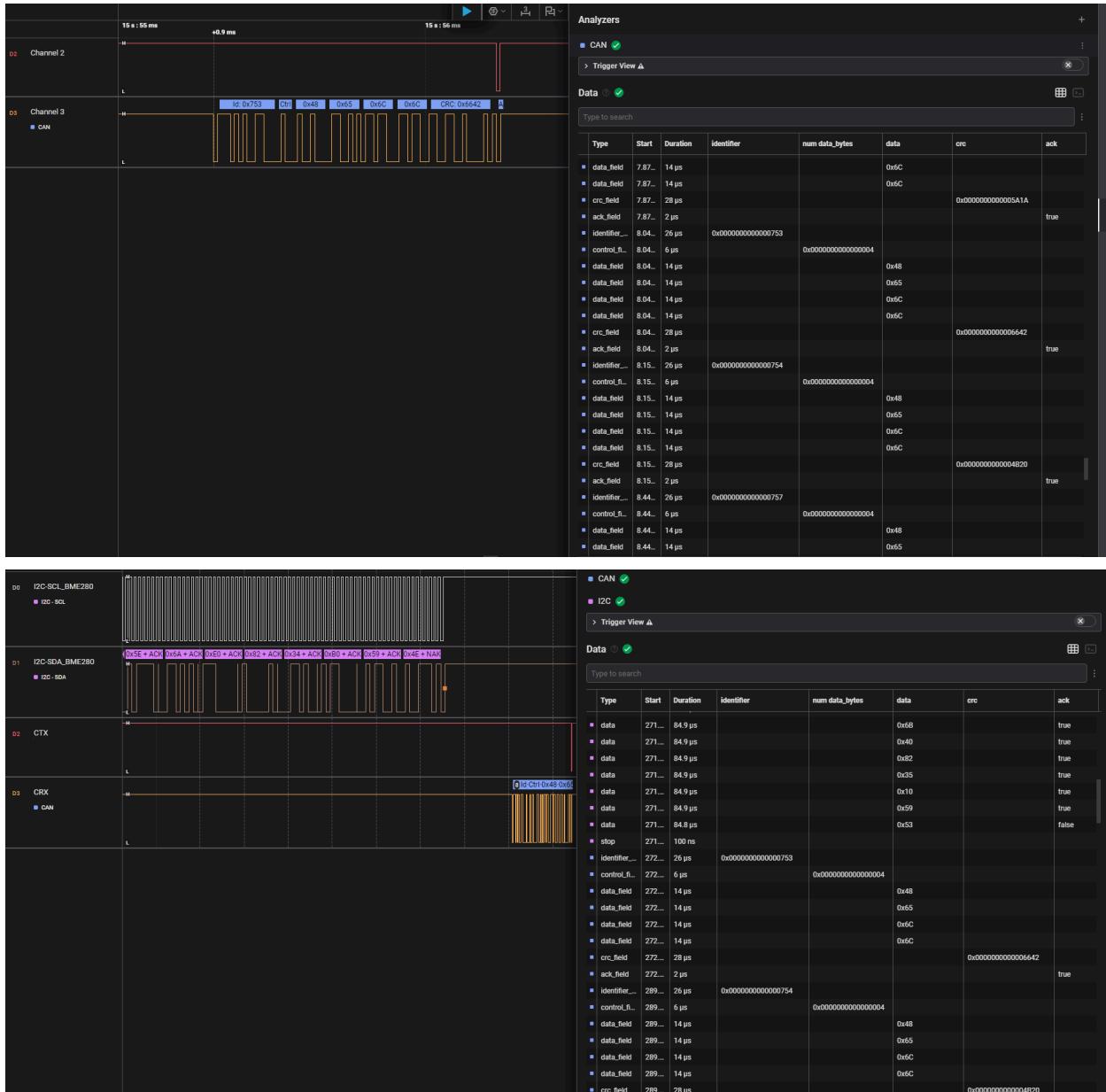
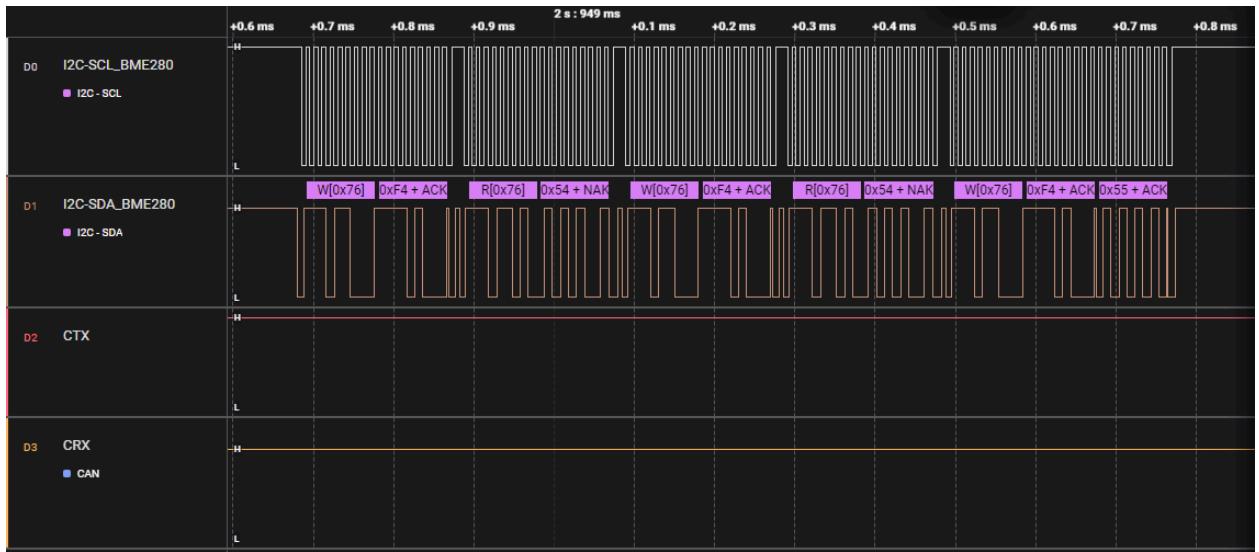
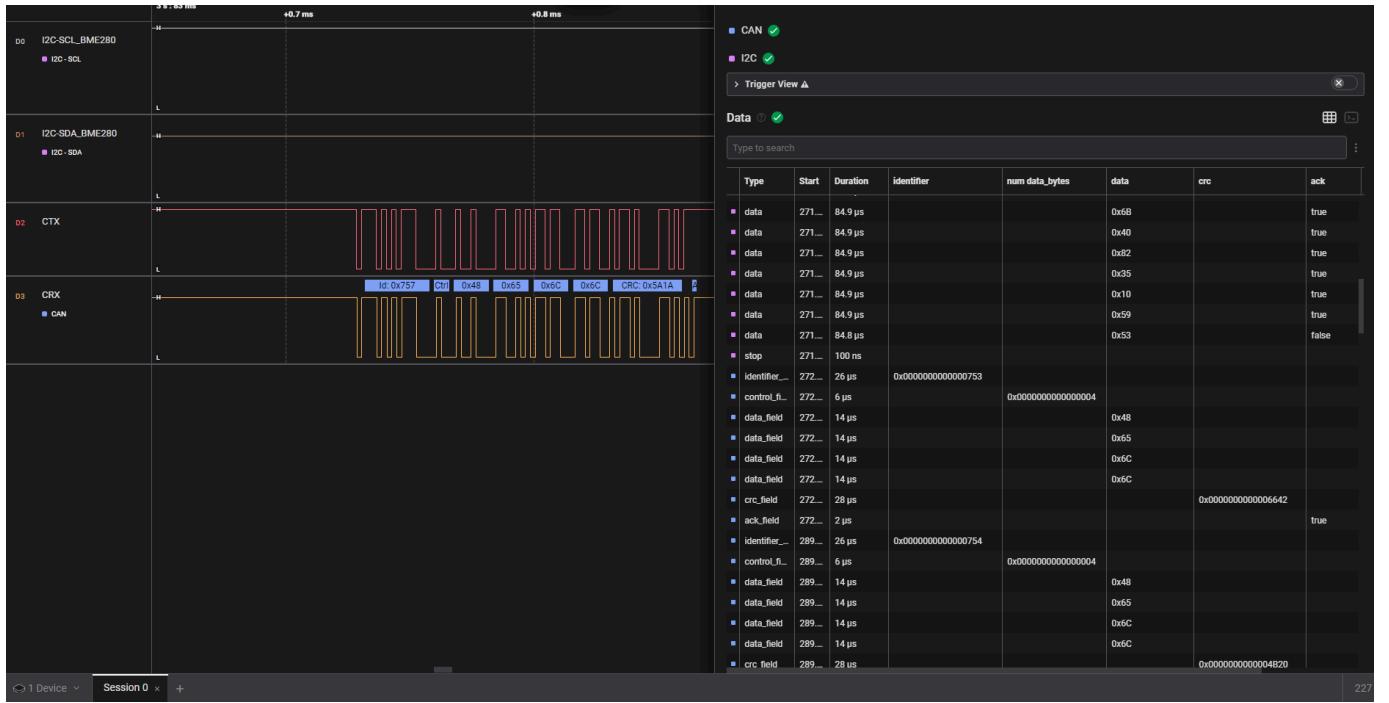


Лабораторна Робота CAN

Скріні з LA, які показують, що ми бачимо три девайси і вони між собою комунікують





Скріни з STM32CubeIDE, як свідоцтво того, що дані з сенсора валідно читаються, "в кан заходимо":

```

rslt = bme280_get_sensor_data(BME280_ALL, &comp_data, &dev);

if (rslt == BME280_OK) {
    temperature = comp_data.temperature / 100.0;
    humidity = comp_data.humidity / 1024.0;
    pressure = comp_data.pressure / 10000.0;

    sprintf(temp_string, "Temperature: %03.1f C", temperature);
    sprintf(hum_string, "Humidity: %03.1f %", humidity);
    sprintf(press_string, "Pressure: %03.1f hPa", pressure);
}

if (s_data_received) {
    sprintf(s_usb_buf, "Received: %s\r\n", s_rx_data);
    HAL_CAN_AddTxMessage(&can, &s_tx_header, (uint8_t*)s_rx_data, &s_tx_mailbox);
    s_data_received = 0;
    HAL_GPIO_TogglePin(LED_PIN_GPIO_Port, LED_PIN_Pin);
}

```

Expression	Type	Value
s_rx_data	char [128]	0x20000250 <s_rx_data>
[0..99]	char [100]	0x20000250 <s_rx_data>
[100..127]	char [28]	0x20000264 <s_rx_data+100>

Elapsed during verifying operation: 00:00:00.664
Upload verified successfully


```

rslt = bme280_set_sensor_mode(BME280_FORCED_MODE, &dev);
HAL_Delay(40);
rslt = bme280_get_sensor_data(BME280_ALL, &comp_data, &dev);

if (rslt == BME280_OK) {
    temperature = comp_data.temperature / 100.0;
    humidity = comp_data.humidity / 1024.0;
    pressure = comp_data.pressure / 10000.0;

    sprintf(temp_string, "Temperature: %03.1f C", temperature);
    sprintf(hum_string, "Humidity: %03.1f %", humidity);
    sprintf(press_string, "Pressure: %03.1f hPa", pressure);
}

if (s_data_received) {
    sprintf(s_usb_buf, "Received: %s\r\n", s_rx_data);
    HAL_CAN_AddTxMessage(&can, &s_tx_header, (uint8_t*)s_rx_data, &s_tx_mailbox);
    s_data_received = 0;
    HAL_GPIO_TogglePin(LED_PIN_GPIO_Port, LED_PIN_Pin);
}

```

Expression	Type	Value
temp_string	char [50]	[50]
temp_string[0]	char	84 'T'
temp_string[1]	char	101 'e'
temp_string[2]	char	109 'm'
temp_string[3]	char	112 'p'
temp_string[4]	char	101 'e'
temp_string[5]	char	114 'r'
temp_string[6]	char	97 'a'
temp_string[7]	char	116 't'
temp_string[8]	char	117 'u'
temp_string[9]	char	114 'r'
temp_string[10]	char	101 'e'
temp_string[11]	char	58 '.'
temp_string[12]	char	32 ''
temp_string[13]	char	32 ''
temp_string[14]	char	67 'C'
temp_string[15]	char	0 '\0'
temp_string[16]	char	0 '\000'