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# Preparing your Laboratory for PATsmart™ ZipChip® and Autosampler Installation

This checklist should be completed by the customer to confirm that the on-site requirements for the successful installation of the PATsmart™ ZipChip® Interface and optional Autosampler, have been satisfied. Please return the completed form to your Repligen contact to avoid delays coordinating the installation of your ZipChip Interface. Feel free to email any questions related to this form to TechSupport@repligen.com

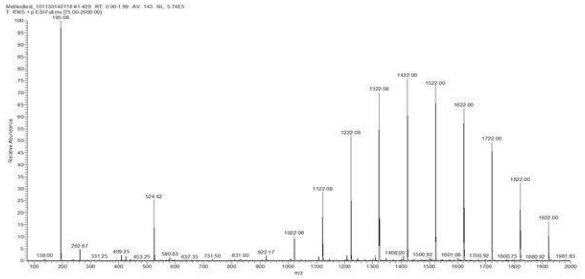
| IDENTIFICATION | |
|---|---|
| Name of company / site | |
| Address of site | |
| Name of primary contact | |
| Phone number of primary contact | |
| Date of installation | |
| Primary Application | |
| Secondary Application | |

| MASS SPECTROMETER MODEL | Available in Lab | Available for Day of Installation |
|---|---|---|
| **Orbitrap Mass Spectrometers** | | |
| Thermo Orbitrap Fusion | ☐ | ☐ |
| Thermo Orbitrap Fusion Lumos | ☐ | ☐ |
| Thermo Orbitrap ID-X | ☐ | ☐ |
| Thermo Orbitrap Eclipse | ☐ | ☐ |
| Thermo Orbitrap Exploris | ☐ | ☐ |
| Thermo Orbitrap IQ-X | ☐ | ☐ |
| Thermo Orbitrap Astral | ☐ | ☐ |
| **Triple Quadrupole Mass Spectrometers** | | |
| Thermo TSQ Quantis | ☐ | ☐ |
| Thermo TSQ Altis | ☐ | ☐ |
| Thermo TSQ Endura | ☐ | ☐ |
| Thermo TSQ Quantiva | ☐ | ☐ |
| Thermo TSQ Fortis | ☐ | ☐ |

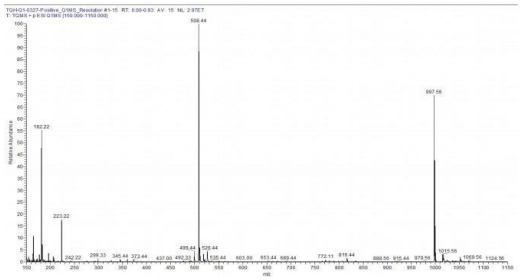
## CALIBRATION OF MASS SPEC

Routine calibration of mass spectrometers is required for optimal performance. Please confirm that the calibration of the system has been performed within 48 hours of the installation date. One of the following calibration solutions from Thermo Scientific should be run depending on the mass spectrometer model to be used:

Thermo Scientific Pierce™ LTQ Velos ESI Positive Ion Calibration Solution – Prod #88323 Thermo Scientific Pierce™ Triple Quadrupole Calibration Solution – Prod #88325 Please refer to the ThermoFisher Scientific website for more information on the calibration solutions. The following spectra should have been generated depending on mass spectrometer model used:



Mass Spectrum of LTQ Velos Calibration Solution



Mass Spectrum of Triple Quadrupole Calibration Solution

## GENERAL

| | | |
|---|---|---|
| **1** | The primary operator of the device will be on site and available during the installation of hardware, integration of ZipChip software with MS, and training. | ☐ |
| **2** | There is sufficient bench or cart space available (14 in (h) x 12 in (w) x 22 in (d)) to support the ZipChip Autosampler weighing 19 kg (42 lbs) within 1 m (3 ft) of the Mass Spec source mounting location. (Required for autosampler equipped ZCI units only) | ☐ |
| **3** | There is a waste collection container available for collection of ZipChip waste composed of water (~50%), methanol (<50%), isopropanol (<10%), acetonitrile (<50%), formic acid (<2%) and acetic acid (<1%) at a rate not to exceed 50 mL/hour. (Required for autosampler equipped units only) | ☐ |
| **4** | There are two (2) electrical power receptacles (110 V/240 V) available within 2 m (6 ft) of the MS source. | ☐ |
| **5** | The MS controlling computer is available within 4 m (13ft) of the MS source. MS controlling computer has **64-bit Windows** version of operating system. | ☐ |
| **6** | LC/MS-grade water and 2-propanol is available in the laboratory for setup and testing. | ☐ |
| **7** | The laboratory environmental temperature is maintained in the range of 15 – 25 C (59-77 F). | ☐ |
| **8** | The laboratory relative humidity is 20-80% non-condensing. | ☐ |
| **9** | The laboratory atmosphere is clean, free of smoke, excess dust and volatile background contamination. | ☐ |
| **10** | There is a dry nitrogen source (via MS inlet supply), capable of providing a continuous supply of approximately 1 LPM. | ☐ |
| **11** | There is a second clean, dry nitrogen source (regulated to 100 ±10 psi) with ¼" tubing available to dry the ZipChip cartridges. | ☐ |
| **12** | The inlet capillary on the MS is new or has recently been cleaned. | ☐ |
| **13** | The space and electrical specifications for the ZipChip Interface (ZCI) and ZipChip (ZC) Autosampler are acceptable, see instrument dimensions and specifications section. | ☐ |

## INSTRUMENT DIMENSIONS AND SPECIFICATIONS

**ZipChip Interface**

| | |
|---|---|
| **Mounting Configuration** | All Thermo Fisher Scientific MS instruments with the NG source configuration. |
| **Software** | ZipChip software for configuration of injection parameters. Integration with Thermo Fisher Scientific Xcalibur software for data collection, processing and reporting. |
| **Dimensions** | 8 in (h) x 8 in (w) x 11 in (d) |
| **Weight** | 11.8 lbs |
| **Power Requirements** | 110/240V/75W |

**Autosampler**

| | |
|---|---|
| **Software** | ZipChip software for configuration and set up of sequences and run parameters. Routines for automated chip priming and unattended operation. |
| **Dimensions** | 14 in (h) x 12 in (w) x 22 in (d) |
| **Weight** | 46.3 lbs |
| **Stackable weight** | 143 lbs |
| **Power Requirements** | 110/240V/200W |

## CONSUMABLES AND REAGENTS

**ZipChip Qualification Kit - Part Number 850-00043**
The kit should be ordered with the instrument, if this does not occur please order 2 weeks prior to install. The kit contains the following:
1 set of metabolite reagents
2 HS Chip
Checkout Standards

## CONTACTS

Please contact us if you need any help or support prior to the install:
TECH SUPPORT: TechSupport@repligen.com | 1-888-927-3035
SALES SUPPORT: analytics-sales@repligen.com | + 857-254-1500

**Customer Signature:** _____