Billing codes and rates, effective July 2022; off-campus rates include 26% indirect costs plus 2% admin fee (aside from negotiated rates, e.g. Van Andel and Henry Ford) RTSF Mass Spectrometry and Metabolomics Core

|                |                 |                 |                  |                     |   | ]                             |
|----------------|-----------------|-----------------|------------------|---------------------|---|-------------------------------|
|                |                 | Off-campus      |                  |                     |   |                               |
|                |                 | nonprofit with  |                  |                     |   |                               |
|                |                 | negotiated      |                  |                     |   |                               |
|                |                 | agreement to    | Off-campus       |                     |   |                               |
|                |                 | receive on-     | nonprofit (incl. | For-profit          |   |                               |
|                |                 | campus pricing  | 26% markup plus  | institutions (incl. |   |                               |
|                |                 | (plus 2%        | 2%               | 26% markup plus     |   |                               |
|                | MSU             | administrative  | administrative   | 2% admin fee),      |   |                               |
| Billing code # | investigators   | fee), 2022      | fee); 2022 rate  | 2022 rate           | Description   |                               |
|                |                 |                 |                  |                     |   |                               |
| 05-03-0000     |                 |                 |                  |                     | GC/MS (all instruments)                                       |                               |
| 05-03-0110     | \$35.00         | \$35.70         | \$45.00          | \$90.00             | GC/MS, staff run, per hour, no data processing                |                               |
| 05-03-1160     | \$42.00         | \$42.84         | \$54.00          | \$108.00            | GC/MS, change of GC column or ion source                      |                               |
| 05-03-2110     | \$16.00         | \$16.32         | \$20.00          | \$40.00             | GC/MS trained user, per hour                                  |                               |
| 05-03-3010     | \$10.00         | \$10.20         | \$13.00          | \$26.00             | Use of thermal desorption accessory or subambient oven        |                               |
|                |                 |                 |                  |                     | control, additional charge per hour                           |                               |
|                |                 |                 |                  |                     |   |                               |
| 05-04-0000     |                 |                 |                  |                     | Atmospheric Pressure Ionization Mass Spectrometry (flow       |                               |
|                |                 |                 |                  |                     | injection analysis, infusion, and LC/MS)                      |                               |
| 05-04-0120     | \$60.00         | \$61.20         | \$77.00          | \$154.00            | Flow injection analysis or LC/MS, staff run, per sample       |                               |
| 05-04-0410     | \$127.00        | \$129.54        | \$163.00         | \$326.00            | HPLC (LC/MS or LC/MS/MS), staff run, per hour                 | minimum charge for 0.25 hours |
| 05-04-2170     | \$56.00         | \$57.12         | \$72.00          | \$144.00            | All LC/MS instruments, trained user, per hour                 | minimum charge for 0.25 hours |
|                |                 |                 |                  |                     |   |                               |
| 05-05-0000     |                 |                 |                  |                     | MALDI-TOF Analyses  |                               |
| 05-05-1010     | \$59.00         | \$60.18         | \$75.52          | \$151.04            | MALDI analysis, staff run, per hour                           | minimum charge for 0.25 hours |
| 05-05-1050     | \$42.00         | \$42.84         | \$53.76          | \$107.52            | MALDI: additional charge per hour, special techniques or      |                               |
|                | -               |                 | -                |                     | greater than three matrices                                   |                               |
| 05-05-2010     | \$37.00         | \$37.74         | \$47.36          | \$94.72             | MALDI analysis, trained user, per hour                        | minimum charge for 0.25 hours |
|                |                 |                 |                  |                     |   |                               |
| 05-07-0000     |                 |                 |                  |                     | Sample prep/Data processing/Special handling                  |                               |
| 05-07-1010     | \$83.00         | \$84.66         | \$106.24         | \$212.48            | Sample preparation, training, data processing, special sample |                               |
|                | -               |                 |                  |                     | handling, or analytical method development by staff, per      |                               |
|                |                 |                 |                  |                     | hour  |                               |
| 05-07-1020     | \$22.00         | \$22.44         | \$28.16          | \$56.32             | Sample derivatization by staff, per sample                    |                               |
| 05-07-3030     | \$24.00         | \$24.48         | \$31.00          | \$62.00             | Use of SpeedVac for sample preparation, per batch             |                               |
| 05-07-9000     | 2 x normal rate | 2 x normal rate | 2 x normal rate  | 2 x normal rate     | Rush sample analysis (emergency turnaround request)           |                               |
| 1              |                 |                 |                  |                     |   | 1                             |