

## Cover Page

**Order ID :** Q2147

**Project ID :** 98 Morse Ave Nutley

**Client :** Sciacca General Contractors, LLC

**Lab Sample Number**

Q2147-01  
Q2147-02  
Q2147-03  
Q2147-04  
Q2147-05  
Q2147-06  
Q2147-07

**Client Sample Number**

WASTE  
VOC  
1  
2  
3  
4  
5

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : \_\_\_\_\_

Date: 6/5/2025

## DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value | If the result is a value greater than or equal to the detection limit, report the value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| U     | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.                                                                                                                                                                                                                                                                                      |
| ND    | Indicates the analyte was analyzed for, but not detected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| J     | Indicates an estimated value. This flag is used:<br><ol style="list-style-type: none"><li>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li><li>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.</li></ol> |
| B     | Indicates the analyte was found in the blank as well as the sample report as "12 B".                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| E     | Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| D     | This flag identifies all compounds identified in an analysis at a secondary dilution factor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| P     | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".                                                                                                                                                                                                                                                                                                                                                                             |
| N     | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.                                                                                                                                                                                                                                                                       |
| A     | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Q     | Indicates the LCS did not meet the control limits requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q2147

Completed

For thorough review, the report must have the following:

#### GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

#### COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

#### CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

#### ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRADIP PRAJAPATI

Date: 06/05/2025

## LAB CHRONICLE

|                                                 |                                        |
|-------------------------------------------------|----------------------------------------|
| <b>OrderID:</b> Q2147                           | <b>OrderDate:</b> 5/28/2025 1:30:00 PM |
| <b>Client:</b> Sciacca General Contractors, LLC | <b>Project:</b> 98 Morse Ave Nutley    |
| <b>Contact:</b> Rosanne Scirica                 | <b>Location:</b> L41,VOA Ref. #2 Soil  |

| LabID    | ClientID | Matrix | Test   | Method | Sample Date | Prep Date | Anal Date | Received |
|----------|----------|--------|--------|--------|-------------|-----------|-----------|----------|
| Q2147-01 | WASTE    | SOIL   | TPH GC | 8015D  | 05/27/25    | 06/09/25  | 06/10/25  | 05/28/25 |
| Q2147-03 | 1        | Solid  | EPH_F2 | NJEPH  | 05/27/25    | 06/03/25  | 06/03/25  | 05/28/25 |
| Q2147-04 | 2        | Solid  | EPH_F2 | NJEPH  | 05/27/25    | 06/03/25  | 06/03/25  | 05/28/25 |
| Q2147-05 | 3        | Solid  | EPH_F2 | NJEPH  | 05/27/25    | 06/03/25  | 06/03/25  | 05/28/25 |
| Q2147-06 | 4        | Solid  | EPH_F2 | NJEPH  | 05/27/25    | 06/03/25  | 06/03/25  | 05/28/25 |
| Q2147-07 | 5        | Solid  | EPH_F2 | NJEPH  | 05/27/25    | 06/03/25  | 06/03/25  | 05/28/25 |



# QC SUMMARY

**SOIL TPH GC SURROGATE RECOVERY**

Lab Name: Chemtech Client: Sciacca General Contractors, LLC  
Lab Code: CHEM Case No.: Q2147 SAS No.: Q2147 SDG No.: Q2147

| EPA<br>SAMPLE NO. | S1<br>TETRACOSANE-d50 | S2 | S3 | S4 | TOT<br>OUT |
|-------------------|-----------------------|----|----|----|------------|
| PIBLK-FG016001.D  | 77                    |    |    |    | 0          |
| PIBLK-FG016009.D  | 78                    |    |    |    | 0          |
| PB168365BL        | 70                    |    |    |    | 0          |
| PB168365BS        | 73                    |    |    |    | 0          |
| WASTE             | 53                    |    |    |    | 0          |
| WASTEMS           | 48                    |    |    |    | 0          |
| WASTEMSD          | 51                    |    |    |    | 0          |

**QC LIMITS**

TETRACOSANE-d50

For Water : 29-130  
For Soil : 37-130

# Column to be used to flag recovery values  
\* Values outside of contract required QC limits  
D Surrogate Diluted Out

**SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY**

**Lab Name:** Chemtech **Client:** Sciacca General Contractors, LLC  
**Lab Code:** CHEM **Cas No:** Q2147 **SAS No :** Q2147 **SDG No:** Q2147  
**Client SampleID :** WASTEMS **Datafile:** FG016007.D

| COMPOUND               | SPIKE<br>ADDED<br>ug/kg | SAMPLE<br>CONCENTRATION<br>ug/kg | MS/MSD<br>CONCENTRATION<br>ug/kg | % REC | Qual | QC LIMITS |
|------------------------|-------------------------|----------------------------------|----------------------------------|-------|------|-----------|
| Petroleum Hydrocarbons | 13841                   | 5470                             | 18502                            | 94%   |      | 68-131    |

**SOIL TPH GC MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY**

**Lab Name:** Chemtech **Client:** Sciacca General Contractors, LLC  
**Lab Code:** CHEM **Cas No:** Q2147 **SAS No :** Q2147 **SDG No:** Q2147  
**Client SampleID :** WASTEMSD **Datafile:** FG016008.D

| COMPOUND               | SPIKE<br>ADDED<br>ug/kg | SAMPLE<br>CONCENTRATION<br>ug/kg | MS/MSD<br>CONCENTRATION<br>ug/kg | % REC | Qual | QC LIMITS |
|------------------------|-------------------------|----------------------------------|----------------------------------|-------|------|-----------|
| Petroleum Hydrocarbons | 13850                   | 5470                             | 19063                            | 98%   |      | 68-131    |

**MS/MSD % Recovery RPD : 4.2**

**SOIL TPH GC LABORATORY CONTROL SPIKE/LABORATORY CONTROL SPIKE DUPLICATE RECOVERY**

**Lab Name:** Chemtech **Client:** Sciacca General Contractors, LLC  
**Lab Code:** CHEM **Cas No:** Q2147 **SAS No :** Q2147 **SDG No:** Q2147  
**Matrix Spike - EPA Sample No :** PB168365BS **Datafile:** FG016005.D

| COMPOUND               | SPIKE<br>ADDED<br>ug/kg | CONCENTRATION<br>ug/kg | LCS/LCSD<br>CONCENTRATION<br>ug/kg | % REC | QC LIMITS |
|------------------------|-------------------------|------------------------|------------------------------------|-------|-----------|
| Petroleum Hydrocarbons | 11326                   | 0                      | 10769                              | 95    | 68-131    |

4B  
METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168365BL

Lab Name: CHEMTECH

Contract: SCIA01

Lab Code: CHEM Case No.: Q2147

SAS No.: Q2147 SDG NO.: Q2147

Lab File ID: FG016004.D

Lab Sample ID: PB168365BL

Instrument ID: FG

Date Extracted: 06/10/2025

Matrix: (soil/water) Soil

Date Analyzed: 06/10/25

Level: (low/med) low

Time Analyzed: 12:10

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|-------------------|------------------|----------------|------------------|
| PB168365BS        | PB168365BS       | FG016005.D     | 06/10/25         |
| WASTE             | Q2147-01         | FG016006.D     | 06/10/25         |
| WASTEMS           | Q2147-01MS       | FG016007.D     | 06/10/25         |
| WASTEMSD          | Q2147-01MSD      | FG016008.D     | 06/10/25         |

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_



# SAMPLE DATA

## Report of Analysis

|                    |                                  |          |                    |          |           |
|--------------------|----------------------------------|----------|--------------------|----------|-----------|
| Client:            | Sciacca General Contractors, LLC |          | Date Collected:    | 05/27/25 |           |
| Project:           | 98 Morse Ave Nutley              |          | Date Received:     | 05/28/25 |           |
| Client Sample ID:  | WASTE                            |          | SDG No.:           | Q2147    |           |
| Lab Sample ID:     | Q2147-01                         |          | Matrix:            | SOIL     |           |
| Analytical Method: | 8015D TPH                        |          | % Solid:           | 81.8     | Decanted: |
| Sample Wt/Vol:     | 30.05                            | Units: g | Final Vol:         | 1        | mL        |
| Soil Aliquot Vol:  |                                  | uL       | Test:              | TPH GC   |           |
| Extraction Type:   |                                  |          | Injection Volume : |          |           |
| GPC Factor :       |                                  | PH :     |                    |          |           |
| Prep Method :      | SW3541                           |          |                    |          |           |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| FG016006.D        | 1         | 06/09/25 10:35 | 06/10/25 13:08 | PB168365      |

| CAS Number        | Parameter              | Conc. | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-------------------|------------------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                        |       |           |          |            |                   |
| PHC               | Petroleum Hydrocarbons | 5470  |           | 469      | 3460       | ug/kg             |
| <b>SURROGATES</b> |                        |       |           |          |            |                   |
| 16416-32-3        | TETRACOSANE-d50        | 10.6  |           | 37 - 130 | 53%        | SPK: 20           |

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016006.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 13:08  
Operator : YP\AJ  
Sample : Q2147-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
FID\_G  
ClientSampleId :  
WASTE

Integration File: autoint1.e  
Quant Time: Jun 11 01:38:22 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Quant Title :  
QLast Update : Thu May 22 06:20:25 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units    |
|-------------------------------|--------|----------|---------------|
| -----                         |        |          |               |
| System Monitoring Compounds   |        |          |               |
| 9) S TETRACOSANE-d50 (SURR... | 14.973 | 1297229  | 10.584 ug/mlm |
| Target Compounds              |        |          |               |
| -----                         |        |          |               |

(f)=RT Delta > 1/2 Window

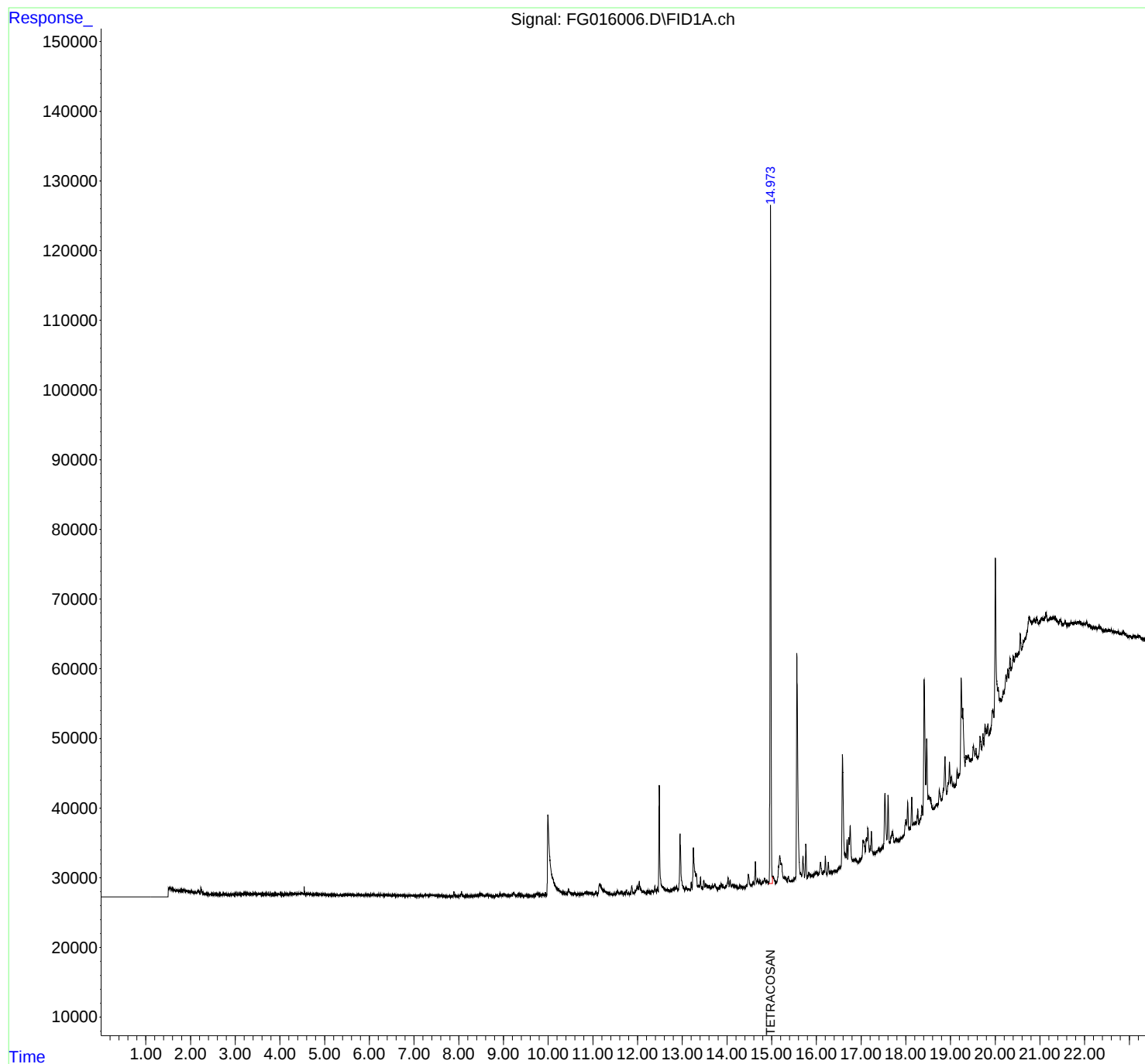
(m)=manual int.

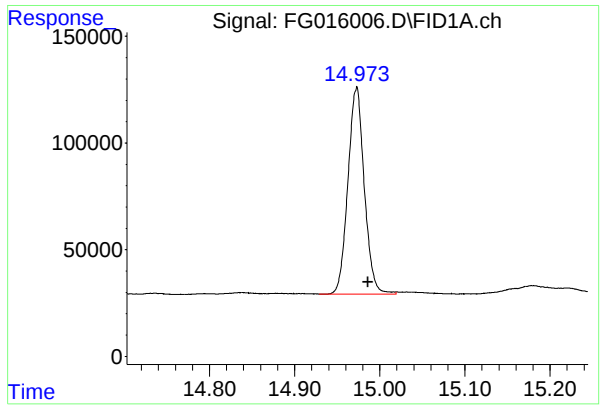
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016006.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 13:08  
Operator : YP\AJ  
Sample : Q2147-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
FID\_G  
ClientSampleId :  
WASTE

Integration File: autoint1.e  
Quant Time: Jun 11 01:38:22 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Quant Title :  
QLast Update : Thu May 22 06:20:25 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.973 min  
Delta R.T.: -0.013 min  
Response: 1297229  
Conc: 10.58 ug/ml

Instrument :  
FID\_G  
ClientSampleId :  
WASTE

rteres

## Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016006.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 13:08  
Sample : Q2147-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Title :

Signal : FID1A.ch

| peak<br># | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-----------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1         | 1.917       | 1.900        | 1.934      | BV       | 79             | 740          | 0.05%          | 0.004%        |
| 2         | 1.939       | 1.934        | 1.950      | VV       | 93             | 543          | 0.04%          | 0.003%        |
| 3         | 1.960       | 1.950        | 2.002      | PV       | 232            | 2628         | 0.19%          | 0.015%        |
| 4         | 2.006       | 2.002        | 2.015      | VV       | 102            | 593          | 0.04%          | 0.003%        |
| 5         | 2.024       | 2.015        | 2.047      | VV       | 155            | 1286         | 0.10%          | 0.007%        |
| 6         | 2.055       | 2.047        | 2.072      | VV       | 78             | 717          | 0.05%          | 0.004%        |
| 7         | 2.080       | 2.072        | 2.112      | VV       | 172            | 1922         | 0.14%          | 0.011%        |
| 8         | 2.114       | 2.112        | 2.135      | VV       | 139            | 1069         | 0.08%          | 0.006%        |
| 9         | 2.144       | 2.135        | 2.151      | VV       | 145            | 912          | 0.07%          | 0.005%        |
| 10        | 2.164       | 2.151        | 2.212      | VV       | 487            | 9146         | 0.68%          | 0.051%        |
| 11        | 2.233       | 2.212        | 2.295      | VV       | 921            | 16829        | 1.25%          | 0.093%        |
| 12        | 2.303       | 2.295        | 2.324      | VV       | 119            | 1501         | 0.11%          | 0.008%        |
| 13        | 2.328       | 2.324        | 2.348      | VV       | 100            | 874          | 0.06%          | 0.005%        |
| 14        | 2.362       | 2.348        | 2.405      | PV       | 129            | 2940         | 0.22%          | 0.016%        |
| 15        | 2.408       | 2.405        | 2.461      | PV       | 122            | 2284         | 0.17%          | 0.013%        |
| 16        | 2.479       | 2.461        | 2.496      | VV       | 140            | 1824         | 0.14%          | 0.010%        |
| 17        | 2.500       | 2.496        | 2.517      | VV       | 111            | 1032         | 0.08%          | 0.006%        |
| 18        | 2.521       | 2.517        | 2.530      | VV       | 108            | 573          | 0.04%          | 0.003%        |
| 19        | 2.538       | 2.530        | 2.555      | VV       | 147            | 1306         | 0.10%          | 0.007%        |
| 20        | 2.559       | 2.555        | 2.575      | VV       | 134            | 1149         | 0.09%          | 0.006%        |
| 21        | 2.577       | 2.575        | 2.581      | VV       | 59             | 258          | 0.02%          | 0.001%        |
| 22        | 2.608       | 2.581        | 2.629      | VV       | 157            | 2433         | 0.18%          | 0.013%        |
| 23        | 2.638       | 2.629        | 2.656      | VV       | 118            | 1268         | 0.09%          | 0.007%        |
| 24        | 2.664       | 2.656        | 2.684      | VV       | 138            | 1344         | 0.10%          | 0.007%        |
| 25        | 2.688       | 2.684        | 2.709      | VV       | 112            | 1244         | 0.09%          | 0.007%        |
| 26        | 2.717       | 2.709        | 2.744      | VV       | 153            | 2009         | 0.15%          | 0.011%        |
| 27        | 2.746       | 2.744        | 2.761      | VV       | 144            | 912          | 0.07%          | 0.005%        |
| 28        | 2.765       | 2.761        | 2.775      | VV       | 92             | 691          | 0.05%          | 0.004%        |
| 29        | 2.786       | 2.775        | 2.817      | VV       | 137            | 2621         | 0.19%          | 0.014%        |
| 30        | 2.824       | 2.817        | 2.829      | VV       | 162            | 639          | 0.05%          | 0.004%        |
| 31        | 2.840       | 2.829        | 2.852      | VV       | 153            | 1269         | 0.09%          | 0.007%        |
| 32        | 2.862       | 2.852        | 2.885      | VV       | 131            | 1723         | 0.13%          | 0.010%        |
| 33        | 2.889       | 2.885        | 2.919      | VV       | 137            | 1652         | 0.12%          | 0.009%        |
| 34        | 2.933       | 2.919        | 2.947      | VV       | 129            | 1300         | 0.10%          | 0.007%        |
| 35        | 2.958       | 2.947        | 2.962      | VV       | 98             | 750          | 0.06%          | 0.004%        |
| 36        | 2.966       | 2.962        | 2.972      | VV       | 137            | 477          | 0.04%          | 0.003%        |

|    |       |       |       |    | rteres |      |       |        |
|----|-------|-------|-------|----|--------|------|-------|--------|
| 37 | 3.003 | 2.972 | 3.022 | VV | 205    | 3964 | 0.29% | 0.022% |
| 38 | 3.029 | 3.022 | 3.035 | VV | 136    | 1004 | 0.07% | 0.006% |
| 39 | 3.041 | 3.035 | 3.052 | VV | 184    | 1327 | 0.10% | 0.007% |
| 40 | 3.058 | 3.052 | 3.067 | VV | 162    | 1084 | 0.08% | 0.006% |
| 41 | 3.074 | 3.067 | 3.078 | VV | 183    | 748  | 0.06% | 0.004% |
| 42 | 3.086 | 3.078 | 3.094 | VV | 197    | 1293 | 0.10% | 0.007% |
| 43 | 3.107 | 3.094 | 3.110 | VV | 141    | 1141 | 0.08% | 0.006% |
| 44 | 3.121 | 3.110 | 3.132 | VV | 166    | 1842 | 0.14% | 0.010% |
| 45 | 3.142 | 3.132 | 3.149 | VV | 204    | 1660 | 0.12% | 0.009% |
| 46 | 3.157 | 3.149 | 3.185 | VV | 241    | 3610 | 0.27% | 0.020% |
| 47 | 3.196 | 3.185 | 3.200 | VV | 214    | 1583 | 0.12% | 0.009% |
| 48 | 3.214 | 3.200 | 3.220 | VV | 258    | 2387 | 0.18% | 0.013% |
| 49 | 3.232 | 3.220 | 3.236 | VV | 238    | 2064 | 0.15% | 0.011% |
| 50 | 3.240 | 3.236 | 3.244 | VV | 215    | 880  | 0.07% | 0.005% |
| 51 | 3.251 | 3.244 | 3.261 | VV | 224    | 1766 | 0.13% | 0.010% |
| 52 | 3.270 | 3.261 | 3.277 | VV | 226    | 1607 | 0.12% | 0.009% |
| 53 | 3.285 | 3.277 | 3.291 | VV | 202    | 1173 | 0.09% | 0.006% |
| 54 | 3.296 | 3.291 | 3.314 | VV | 170    | 2114 | 0.16% | 0.012% |
| 55 | 3.322 | 3.314 | 3.342 | VV | 199    | 2803 | 0.21% | 0.015% |
| 56 | 3.344 | 3.342 | 3.355 | VV | 182    | 1222 | 0.09% | 0.007% |
| 57 | 3.359 | 3.355 | 3.364 | VV | 181    | 815  | 0.06% | 0.004% |
| 58 | 3.368 | 3.364 | 3.376 | VV | 191    | 1173 | 0.09% | 0.006% |
| 59 | 3.381 | 3.376 | 3.389 | VV | 227    | 1364 | 0.10% | 0.008% |
| 60 | 3.393 | 3.389 | 3.401 | VV | 222    | 1257 | 0.09% | 0.007% |
| 61 | 3.410 | 3.401 | 3.427 | VV | 202    | 2543 | 0.19% | 0.014% |
| 62 | 3.433 | 3.427 | 3.439 | VV | 178    | 1204 | 0.09% | 0.007% |
| 63 | 3.444 | 3.439 | 3.467 | VV | 223    | 3125 | 0.23% | 0.017% |
| 64 | 3.476 | 3.467 | 3.486 | VV | 220    | 2071 | 0.15% | 0.011% |
| 65 | 3.492 | 3.486 | 3.520 | VV | 233    | 3513 | 0.26% | 0.019% |
| 66 | 3.525 | 3.520 | 3.538 | VV | 208    | 1960 | 0.15% | 0.011% |
| 67 | 3.554 | 3.538 | 3.571 | VV | 212    | 3443 | 0.25% | 0.019% |
| 68 | 3.575 | 3.571 | 3.592 | VV | 194    | 2117 | 0.16% | 0.012% |
| 69 | 3.596 | 3.592 | 3.606 | VV | 206    | 1453 | 0.11% | 0.008% |
| 70 | 3.619 | 3.606 | 3.628 | VV | 218    | 2226 | 0.16% | 0.012% |
| 71 | 3.643 | 3.628 | 3.651 | VV | 221    | 2178 | 0.16% | 0.012% |
| 72 | 3.656 | 3.651 | 3.660 | VV | 181    | 847  | 0.06% | 0.005% |
| 73 | 3.666 | 3.660 | 3.677 | VV | 208    | 1769 | 0.13% | 0.010% |
| 74 | 3.681 | 3.677 | 3.726 | VV | 224    | 4660 | 0.35% | 0.026% |
| 75 | 3.732 | 3.726 | 3.743 | VV | 220    | 1801 | 0.13% | 0.010% |
| 76 | 3.749 | 3.743 | 3.764 | VV | 197    | 2064 | 0.15% | 0.011% |
| 77 | 3.771 | 3.764 | 3.776 | VV | 205    | 1105 | 0.08% | 0.006% |
| 78 | 3.779 | 3.776 | 3.801 | VV | 214    | 2456 | 0.18% | 0.014% |
| 79 | 3.806 | 3.801 | 3.829 | VV | 250    | 2688 | 0.20% | 0.015% |
| 80 | 3.842 | 3.829 | 3.850 | VV | 218    | 2014 | 0.15% | 0.011% |
| 81 | 3.857 | 3.850 | 3.899 | VV | 179    | 4369 | 0.32% | 0.024% |
| 82 | 3.905 | 3.899 | 3.916 | VV | 183    | 1509 | 0.11% | 0.008% |
| 83 | 3.925 | 3.916 | 3.937 | VV | 181    | 1981 | 0.15% | 0.011% |
| 84 | 3.948 | 3.937 | 3.984 | VV | 230    | 5203 | 0.39% | 0.029% |
| 85 | 3.989 | 3.984 | 4.009 | VV | 227    | 2715 | 0.20% | 0.015% |
| 86 | 4.013 | 4.009 | 4.036 | VV | 219    | 2816 | 0.21% | 0.016% |
| 87 | 4.041 | 4.036 | 4.062 | VV | 202    | 2610 | 0.19% | 0.014% |
| 88 | 4.066 | 4.062 | 4.074 | VV | 182    | 1126 | 0.08% | 0.006% |
| 89 | 4.085 | 4.074 | 4.091 | VV | 200    | 1644 | 0.12% | 0.009% |

|     |       |       |       |    |        |       |       |        |
|-----|-------|-------|-------|----|--------|-------|-------|--------|
|     |       |       |       |    | rteres |       |       |        |
| 90  | 4.099 | 4.091 | 4.119 | VV | 223    | 2910  | 0.22% | 0.016% |
| 91  | 4.125 | 4.119 | 4.129 | VV | 198    | 1126  | 0.08% | 0.006% |
| 92  | 4.131 | 4.129 | 4.150 | VV | 234    | 2450  | 0.18% | 0.014% |
| 93  | 4.159 | 4.150 | 4.171 | VV | 220    | 2344  | 0.17% | 0.013% |
| 94  | 4.176 | 4.171 | 4.189 | VV | 208    | 1947  | 0.14% | 0.011% |
| 95  | 4.209 | 4.189 | 4.219 | VV | 252    | 3691  | 0.27% | 0.020% |
| 96  | 4.226 | 4.219 | 4.232 | VV | 291    | 2077  | 0.15% | 0.011% |
| 97  | 4.243 | 4.232 | 4.260 | VV | 300    | 4291  | 0.32% | 0.024% |
| 98  | 4.279 | 4.260 | 4.291 | VV | 315    | 4728  | 0.35% | 0.026% |
| 99  | 4.324 | 4.291 | 4.330 | VV | 323    | 6236  | 0.46% | 0.034% |
| 100 | 4.335 | 4.330 | 4.341 | VV | 299    | 1666  | 0.12% | 0.009% |
| 101 | 4.343 | 4.341 | 4.350 | VV | 319    | 1562  | 0.12% | 0.009% |
| 102 | 4.357 | 4.350 | 4.368 | VV | 294    | 2884  | 0.21% | 0.016% |
| 103 | 4.374 | 4.368 | 4.396 | VV | 291    | 4227  | 0.31% | 0.023% |
| 104 | 4.399 | 4.396 | 4.404 | VV | 318    | 1362  | 0.10% | 0.008% |
| 105 | 4.421 | 4.404 | 4.448 | VV | 343    | 7094  | 0.53% | 0.039% |
| 106 | 4.454 | 4.448 | 4.471 | VV | 332    | 3992  | 0.30% | 0.022% |
| 107 | 4.478 | 4.471 | 4.537 | VV | 377    | 11306 | 0.84% | 0.062% |
| 108 | 4.542 | 4.537 | 4.548 | VV | 1033   | 2460  | 0.18% | 0.014% |
| 109 | 4.566 | 4.548 | 4.571 | VV | 313    | 3510  | 0.26% | 0.019% |
| 110 | 4.586 | 4.571 | 4.630 | VV | 326    | 7965  | 0.59% | 0.044% |
| 111 | 4.655 | 4.630 | 4.671 | VV | 303    | 5832  | 0.43% | 0.032% |
| 112 | 4.675 | 4.671 | 4.687 | VV | 269    | 2249  | 0.17% | 0.012% |
| 113 | 4.694 | 4.687 | 4.701 | VV | 225    | 1561  | 0.12% | 0.009% |
| 114 | 4.704 | 4.701 | 4.716 | VV | 233    | 1889  | 0.14% | 0.010% |
| 115 | 4.719 | 4.716 | 4.737 | VV | 246    | 2263  | 0.17% | 0.012% |
| 116 | 4.771 | 4.737 | 4.775 | VV | 261    | 4235  | 0.31% | 0.023% |
| 117 | 4.783 | 4.775 | 4.796 | VV | 257    | 2308  | 0.17% | 0.013% |
| 118 | 4.800 | 4.796 | 4.813 | VV | 236    | 1851  | 0.14% | 0.010% |
| 119 | 4.819 | 4.813 | 4.824 | VV | 196    | 1216  | 0.09% | 0.007% |
| 120 | 4.833 | 4.824 | 4.851 | VV | 241    | 2965  | 0.22% | 0.016% |
| 121 | 4.859 | 4.851 | 4.881 | VV | 206    | 3193  | 0.24% | 0.018% |
| 122 | 4.884 | 4.881 | 4.920 | VV | 187    | 4626  | 0.34% | 0.026% |
| 123 | 4.933 | 4.920 | 4.961 | VV | 241    | 4371  | 0.32% | 0.024% |
| 124 | 4.971 | 4.961 | 5.008 | VV | 199    | 4858  | 0.36% | 0.027% |
| 125 | 5.015 | 5.008 | 5.052 | VV | 158    | 3837  | 0.28% | 0.021% |
| 126 | 5.064 | 5.052 | 5.114 | VV | 204    | 4925  | 0.36% | 0.027% |
| 127 | 5.117 | 5.114 | 5.127 | VV | 170    | 1014  | 0.08% | 0.006% |
| 128 | 5.139 | 5.127 | 5.164 | VV | 184    | 3014  | 0.22% | 0.017% |
| 129 | 5.168 | 5.164 | 5.171 | VV | 163    | 552   | 0.04% | 0.003% |
| 130 | 5.175 | 5.171 | 5.190 | VV | 211    | 1483  | 0.11% | 0.008% |
| 131 | 5.196 | 5.190 | 5.249 | VV | 151    | 4127  | 0.31% | 0.023% |
| 132 | 5.251 | 5.249 | 5.255 | VV | 130    | 365   | 0.03% | 0.002% |
| 133 | 5.258 | 5.255 | 5.267 | VV | 125    | 719   | 0.05% | 0.004% |
| 134 | 5.272 | 5.267 | 5.309 | VV | 140    | 2875  | 0.21% | 0.016% |
| 135 | 5.316 | 5.309 | 5.321 | VV | 187    | 907   | 0.07% | 0.005% |
| 136 | 5.327 | 5.321 | 5.338 | VV | 133    | 1125  | 0.08% | 0.006% |
| 137 | 5.346 | 5.338 | 5.360 | VV | 145    | 1577  | 0.12% | 0.009% |
| 138 | 5.364 | 5.360 | 5.375 | VV | 160    | 1023  | 0.08% | 0.006% |
| 139 | 5.384 | 5.375 | 5.393 | VV | 144    | 1218  | 0.09% | 0.007% |
| 140 | 5.396 | 5.393 | 5.399 | VV | 145    | 529   | 0.04% | 0.003% |
| 141 | 5.403 | 5.399 | 5.423 | VV | 142    | 1758  | 0.13% | 0.010% |

|     |       |       |       |    |        |      |       |        |
|-----|-------|-------|-------|----|--------|------|-------|--------|
|     |       |       |       |    | rteres |      |       |        |
| 142 | 5.460 | 5.423 | 5.468 | VV | 252    | 3920 | 0.29% | 0.022% |
| 143 | 5.471 | 5.468 | 5.479 | VV | 183    | 1123 | 0.08% | 0.006% |
| 144 | 5.484 | 5.479 | 5.496 | VV | 204    | 1804 | 0.13% | 0.010% |
| 145 | 5.501 | 5.496 | 5.507 | VV | 187    | 1028 | 0.08% | 0.006% |
| 146 | 5.520 | 5.507 | 5.542 | VV | 210    | 3247 | 0.24% | 0.018% |
| 147 | 5.557 | 5.542 | 5.571 | VV | 225    | 2733 | 0.20% | 0.015% |
| 148 | 5.576 | 5.571 | 5.580 | VV | 211    | 865  | 0.06% | 0.005% |
| 149 | 5.583 | 5.580 | 5.596 | VV | 185    | 1568 | 0.12% | 0.009% |
| 150 | 5.605 | 5.596 | 5.639 | VV | 196    | 4120 | 0.31% | 0.023% |
| 151 | 5.641 | 5.639 | 5.677 | VV | 240    | 3530 | 0.26% | 0.019% |
| 152 | 5.689 | 5.677 | 5.714 | VV | 168    | 3024 | 0.22% | 0.017% |
| 153 | 5.729 | 5.714 | 5.738 | VV | 251    | 2900 | 0.21% | 0.016% |
| 154 | 5.745 | 5.738 | 5.781 | VV | 249    | 5065 | 0.38% | 0.028% |
| 155 | 5.782 | 5.781 | 5.793 | VV | 223    | 1311 | 0.10% | 0.007% |
| 156 | 5.797 | 5.793 | 5.801 | VV | 173    | 764  | 0.06% | 0.004% |
| 157 | 5.819 | 5.801 | 5.839 | VV | 281    | 4051 | 0.30% | 0.022% |
| 158 | 5.845 | 5.839 | 5.861 | VV | 207    | 2004 | 0.15% | 0.011% |
| 159 | 5.867 | 5.861 | 5.881 | VV | 140    | 1796 | 0.13% | 0.010% |
| 160 | 5.928 | 5.881 | 5.941 | VV | 252    | 6583 | 0.49% | 0.036% |
| 161 | 5.947 | 5.941 | 5.956 | VV | 180    | 1327 | 0.10% | 0.007% |
| 162 | 5.961 | 5.956 | 5.966 | VV | 178    | 908  | 0.07% | 0.005% |
| 163 | 5.992 | 5.966 | 6.009 | VV | 237    | 4888 | 0.36% | 0.027% |
| 164 | 6.022 | 6.009 | 6.058 | VV | 238    | 5387 | 0.40% | 0.030% |
| 165 | 6.063 | 6.058 | 6.082 | VV | 238    | 2698 | 0.20% | 0.015% |
| 166 | 6.088 | 6.082 | 6.092 | VV | 273    | 1192 | 0.09% | 0.007% |
| 167 | 6.098 | 6.092 | 6.122 | VV | 212    | 3285 | 0.24% | 0.018% |
| 168 | 6.130 | 6.122 | 6.138 | VV | 222    | 1608 | 0.12% | 0.009% |
| 169 | 6.143 | 6.138 | 6.149 | VV | 178    | 988  | 0.07% | 0.005% |
| 170 | 6.160 | 6.149 | 6.178 | VV | 216    | 2647 | 0.20% | 0.015% |
| 171 | 6.194 | 6.178 | 6.221 | VV | 248    | 4488 | 0.33% | 0.025% |
| 172 | 6.249 | 6.221 | 6.252 | VV | 256    | 3573 | 0.26% | 0.020% |
| 173 | 6.257 | 6.252 | 6.272 | VV | 280    | 2455 | 0.18% | 0.014% |
| 174 | 6.281 | 6.272 | 6.285 | VV | 197    | 1302 | 0.10% | 0.007% |
| 175 | 6.290 | 6.285 | 6.301 | VV | 206    | 1752 | 0.13% | 0.010% |
| 176 | 6.306 | 6.301 | 6.352 | VV | 187    | 4590 | 0.34% | 0.025% |
| 177 | 6.374 | 6.352 | 6.382 | VV | 301    | 3750 | 0.28% | 0.021% |
| 178 | 6.385 | 6.382 | 6.421 | VV | 175    | 3562 | 0.26% | 0.020% |
| 179 | 6.424 | 6.421 | 6.431 | VV | 159    | 887  | 0.07% | 0.005% |
| 180 | 6.442 | 6.431 | 6.448 | VV | 205    | 1697 | 0.13% | 0.009% |
| 181 | 6.484 | 6.448 | 6.493 | VV | 210    | 4246 | 0.31% | 0.023% |
| 182 | 6.549 | 6.493 | 6.581 | VV | 192    | 7748 | 0.57% | 0.043% |
| 183 | 6.605 | 6.581 | 6.629 | VV | 192    | 4038 | 0.30% | 0.022% |
| 184 | 6.657 | 6.629 | 6.687 | VV | 199    | 5050 | 0.37% | 0.028% |
| 185 | 6.697 | 6.687 | 6.708 | VV | 176    | 1799 | 0.13% | 0.010% |
| 186 | 6.725 | 6.708 | 6.802 | VV | 171    | 6669 | 0.49% | 0.037% |
| 187 | 6.808 | 6.802 | 6.871 | VV | 146    | 3844 | 0.28% | 0.021% |
| 188 | 6.889 | 6.871 | 6.906 | VV | 173    | 1981 | 0.15% | 0.011% |
| 189 | 6.950 | 6.906 | 6.968 | VV | 222    | 4860 | 0.36% | 0.027% |
| 190 | 6.979 | 6.968 | 7.003 | VV | 116    | 2192 | 0.16% | 0.012% |
| 191 | 7.015 | 7.003 | 7.026 | VV | 124    | 1383 | 0.10% | 0.008% |
| 192 | 7.044 | 7.026 | 7.056 | VV | 143    | 1590 | 0.12% | 0.009% |
| 193 | 7.070 | 7.056 | 7.100 | VV | 131    | 2576 | 0.19% | 0.014% |
| 194 | 7.107 | 7.100 | 7.129 | VV | 135    | 1765 | 0.13% | 0.010% |

|     |       |       |       |    |        |       |       |        |
|-----|-------|-------|-------|----|--------|-------|-------|--------|
|     |       |       |       |    | rteres |       |       |        |
| 195 | 7.141 | 7.129 | 7.178 | VV | 126    | 3498  | 0.26% | 0.019% |
| 196 | 7.188 | 7.178 | 7.212 | VV | 169    | 2499  | 0.19% | 0.014% |
| 197 | 7.235 | 7.212 | 7.264 | VV | 284    | 5720  | 0.42% | 0.032% |
| 198 | 7.297 | 7.264 | 7.330 | VV | 251    | 7262  | 0.54% | 0.040% |
| 199 | 7.336 | 7.330 | 7.362 | VV | 228    | 3434  | 0.25% | 0.019% |
| 200 | 7.380 | 7.362 | 7.418 | VV | 305    | 6957  | 0.52% | 0.038% |
| 201 | 7.439 | 7.418 | 7.461 | VV | 240    | 5076  | 0.38% | 0.028% |
| 202 | 7.469 | 7.461 | 7.499 | VV | 182    | 3453  | 0.26% | 0.019% |
| 203 | 7.505 | 7.499 | 7.523 | VV | 140    | 2072  | 0.15% | 0.011% |
| 204 | 7.543 | 7.523 | 7.577 | VV | 218    | 5057  | 0.37% | 0.028% |
| 205 | 7.584 | 7.577 | 7.598 | VV | 173    | 1752  | 0.13% | 0.010% |
| 206 | 7.615 | 7.598 | 7.672 | VV | 239    | 6356  | 0.47% | 0.035% |
| 207 | 7.689 | 7.672 | 7.697 | VV | 112    | 1348  | 0.10% | 0.007% |
| 208 | 7.705 | 7.697 | 7.714 | VV | 144    | 911   | 0.07% | 0.005% |
| 209 | 7.721 | 7.714 | 7.751 | VV | 90     | 1539  | 0.11% | 0.009% |
| 210 | 7.753 | 7.751 | 7.777 | VV | 115    | 1018  | 0.08% | 0.006% |
| 211 | 7.793 | 7.777 | 7.807 | VV | 85     | 984   | 0.07% | 0.005% |
| 212 | 7.829 | 7.807 | 7.838 | PV | 73     | 766   | 0.06% | 0.004% |
| 213 | 7.892 | 7.838 | 7.978 | VV | 727    | 12548 | 0.93% | 0.069% |
| 214 | 8.064 | 7.978 | 8.147 | VV | 774    | 16994 | 1.26% | 0.094% |
| 215 | 8.183 | 8.147 | 8.195 | VV | 149    | 2813  | 0.21% | 0.016% |
| 216 | 8.204 | 8.195 | 8.227 | VV | 130    | 1524  | 0.11% | 0.008% |
| 217 | 8.241 | 8.227 | 8.259 | VV | 123    | 1837  | 0.14% | 0.010% |
| 218 | 8.285 | 8.259 | 8.299 | VV | 110    | 1985  | 0.15% | 0.011% |
| 219 | 8.309 | 8.299 | 8.334 | VV | 159    | 2222  | 0.16% | 0.012% |
| 220 | 8.342 | 8.334 | 8.364 | VV | 160    | 1913  | 0.14% | 0.011% |
| 221 | 8.368 | 8.364 | 8.407 | VV | 160    | 3112  | 0.23% | 0.017% |
| 222 | 8.426 | 8.407 | 8.435 | VV | 192    | 2549  | 0.19% | 0.014% |
| 223 | 8.467 | 8.435 | 8.482 | VV | 419    | 7368  | 0.55% | 0.041% |
| 224 | 8.500 | 8.482 | 8.609 | VV | 401    | 16452 | 1.22% | 0.091% |
| 225 | 8.640 | 8.609 | 8.684 | VV | 302    | 8804  | 0.65% | 0.049% |
| 226 | 8.704 | 8.684 | 8.764 | VV | 209    | 4698  | 0.35% | 0.026% |
| 227 | 8.778 | 8.764 | 8.798 | VV | 109    | 1408  | 0.10% | 0.008% |
| 228 | 8.851 | 8.798 | 8.879 | PV | 215    | 6174  | 0.46% | 0.034% |
| 229 | 8.928 | 8.879 | 8.982 | VV | 380    | 12351 | 0.91% | 0.068% |
| 230 | 9.005 | 8.982 | 9.015 | VV | 342    | 5211  | 0.39% | 0.029% |
| 231 | 9.021 | 9.015 | 9.072 | VV | 319    | 7994  | 0.59% | 0.044% |
| 232 | 9.084 | 9.072 | 9.137 | VV | 196    | 5024  | 0.37% | 0.028% |
| 233 | 9.150 | 9.137 | 9.164 | VV | 311    | 2581  | 0.19% | 0.014% |
| 234 | 9.181 | 9.164 | 9.199 | VV | 210    | 3222  | 0.24% | 0.018% |
| 235 | 9.223 | 9.199 | 9.302 | VV | 606    | 18443 | 1.37% | 0.102% |
| 236 | 9.329 | 9.302 | 9.361 | VV | 397    | 8342  | 0.62% | 0.046% |
| 237 | 9.372 | 9.361 | 9.437 | VV | 189    | 6859  | 0.51% | 0.038% |
| 238 | 9.443 | 9.437 | 9.476 | VV | 131    | 1568  | 0.12% | 0.009% |
| 239 | 9.511 | 9.476 | 9.538 | VV | 185    | 4215  | 0.31% | 0.023% |
| 240 | 9.556 | 9.538 | 9.580 | VV | 132    | 2284  | 0.17% | 0.013% |
| 241 | 9.589 | 9.580 | 9.601 | VV | 45     | 441   | 0.03% | 0.002% |
| 242 | 9.617 | 9.601 | 9.646 | PV | 95     | 1351  | 0.10% | 0.007% |
| 243 | 9.744 | 9.646 | 9.766 | VV | 359    | 12390 | 0.92% | 0.068% |
| 244 | 9.775 | 9.766 | 9.812 | VV | 305    | 6362  | 0.47% | 0.035% |
| 245 | 9.831 | 9.812 | 9.857 | VV | 228    | 4427  | 0.33% | 0.024% |
| 246 | 9.880 | 9.857 | 9.910 | VV | 210    | 4318  | 0.32% | 0.024% |

|     |        |        |        |    |        |        |        |        |
|-----|--------|--------|--------|----|--------|--------|--------|--------|
|     |        |        |        |    | rteres |        |        |        |
| 247 | 9.938  | 9.910  | 9.962  | VV | 469    | 7057   | 0.52%  | 0.039% |
| 248 | 9.997  | 9.962  | 10.318 | VV | 11590  | 577944 | 42.79% | 3.192% |
| 249 | 10.324 | 10.318 | 10.371 | VV | 503    | 13025  | 0.96%  | 0.072% |
| 250 | 10.377 | 10.371 | 10.414 | VV | 365    | 7722   | 0.57%  | 0.043% |
| 251 | 10.456 | 10.414 | 10.522 | VV | 971    | 32257  | 2.39%  | 0.178% |
| 252 | 10.533 | 10.522 | 10.550 | VV | 361    | 4935   | 0.37%  | 0.027% |
| 253 | 10.590 | 10.550 | 10.619 | VV | 343    | 11257  | 0.83%  | 0.062% |
| 254 | 10.626 | 10.619 | 10.659 | VV | 207    | 4256   | 0.32%  | 0.024% |
| 255 | 10.672 | 10.659 | 10.701 | VV | 245    | 4360   | 0.32%  | 0.024% |
| 256 | 10.739 | 10.701 | 10.771 | VV | 229    | 7227   | 0.54%  | 0.040% |
| 257 | 10.779 | 10.771 | 10.794 | VV | 259    | 3014   | 0.22%  | 0.017% |
| 258 | 10.821 | 10.794 | 10.833 | VV | 402    | 7110   | 0.53%  | 0.039% |
| 259 | 10.851 | 10.833 | 10.901 | VV | 520    | 14724  | 1.09%  | 0.081% |
| 260 | 10.920 | 10.901 | 10.942 | VV | 453    | 8194   | 0.61%  | 0.045% |
| 261 | 10.959 | 10.942 | 11.019 | VV | 381    | 10278  | 0.76%  | 0.057% |
| 262 | 11.072 | 11.019 | 11.110 | VV | 593    | 12654  | 0.94%  | 0.070% |
| 263 | 11.149 | 11.110 | 11.338 | VV | 1537   | 102344 | 7.58%  | 0.565% |
| 264 | 11.346 | 11.338 | 11.447 | VV | 258    | 9344   | 0.69%  | 0.052% |
| 265 | 11.451 | 11.447 | 11.471 | VV | 108    | 908    | 0.07%  | 0.005% |
| 266 | 11.487 | 11.471 | 11.512 | VV | 207    | 3401   | 0.25%  | 0.019% |
| 267 | 11.555 | 11.512 | 11.591 | VV | 637    | 14967  | 1.11%  | 0.083% |
| 268 | 11.636 | 11.591 | 11.692 | VV | 529    | 15999  | 1.18%  | 0.088% |
| 269 | 11.713 | 11.692 | 11.728 | VV | 218    | 3504   | 0.26%  | 0.019% |
| 270 | 11.749 | 11.728 | 11.779 | VV | 639    | 9431   | 0.70%  | 0.052% |
| 271 | 11.798 | 11.779 | 11.822 | VV | 309    | 4015   | 0.30%  | 0.022% |
| 272 | 11.871 | 11.822 | 11.919 | PV | 1233   | 23740  | 1.76%  | 0.131% |
| 273 | 11.990 | 11.919 | 12.021 | VV | 1123   | 38373  | 2.84%  | 0.212% |
| 274 | 12.039 | 12.021 | 12.109 | VV | 1630   | 41223  | 3.05%  | 0.228% |
| 275 | 12.120 | 12.109 | 12.192 | VV | 386    | 12073  | 0.89%  | 0.067% |
| 276 | 12.224 | 12.192 | 12.259 | VV | 457    | 9625   | 0.71%  | 0.053% |
| 277 | 12.281 | 12.259 | 12.300 | VV | 298    | 4881   | 0.36%  | 0.027% |
| 278 | 12.324 | 12.300 | 12.356 | VV | 481    | 8721   | 0.65%  | 0.048% |
| 279 | 12.387 | 12.356 | 12.416 | VV | 1029   | 16814  | 1.24%  | 0.093% |
| 280 | 12.440 | 12.416 | 12.461 | VV | 645    | 11495  | 0.85%  | 0.063% |
| 281 | 12.485 | 12.461 | 12.564 | VV | 15424  | 228328 | 16.91% | 1.261% |
| 282 | 12.574 | 12.564 | 12.641 | VV | 915    | 26116  | 1.93%  | 0.144% |
| 283 | 12.645 | 12.641 | 12.726 | VV | 459    | 16227  | 1.20%  | 0.090% |
| 284 | 12.755 | 12.726 | 12.776 | VV | 386    | 8605   | 0.64%  | 0.048% |
| 285 | 12.790 | 12.776 | 12.809 | VV | 512    | 8583   | 0.64%  | 0.047% |
| 286 | 12.828 | 12.809 | 12.851 | VV | 693    | 13035  | 0.97%  | 0.072% |
| 287 | 12.871 | 12.851 | 12.911 | VV | 903    | 18862  | 1.40%  | 0.104% |
| 288 | 12.951 | 12.911 | 13.062 | VV | 8346   | 191984 | 14.21% | 1.060% |
| 289 | 13.082 | 13.062 | 13.113 | VV | 595    | 12475  | 0.92%  | 0.069% |
| 290 | 13.123 | 13.113 | 13.132 | VV | 365    | 3755   | 0.28%  | 0.021% |
| 291 | 13.152 | 13.132 | 13.174 | VV | 420    | 7476   | 0.55%  | 0.041% |
| 292 | 13.201 | 13.174 | 13.221 | VV | 1320   | 17888  | 1.32%  | 0.099% |
| 293 | 13.249 | 13.221 | 13.300 | VV | 6189   | 151668 | 11.23% | 0.838% |
| 294 | 13.312 | 13.300 | 13.349 | VV | 2519   | 45682  | 3.38%  | 0.252% |
| 295 | 13.365 | 13.349 | 13.387 | VV | 739    | 14896  | 1.10%  | 0.082% |
| 296 | 13.408 | 13.387 | 13.459 | VV | 1947   | 35472  | 2.63%  | 0.196% |
| 297 | 13.483 | 13.459 | 13.506 | VV | 1466   | 23416  | 1.73%  | 0.129% |
| 298 | 13.524 | 13.506 | 13.575 | VV | 915    | 27781  | 2.06%  | 0.153% |
| 299 | 13.611 | 13.575 | 13.635 | VV | 707    | 17546  | 1.30%  | 0.097% |

|     |        |        |        |    |        |         |        |        |
|-----|--------|--------|--------|----|--------|---------|--------|--------|
|     |        |        |        |    | rteres |         |        |        |
| 300 | 13.671 | 13.635 | 13.701 | VV | 608    | 17253   | 1.28%  | 0.095% |
| 301 | 13.727 | 13.701 | 13.804 | VV | 850    | 26401   | 1.95%  | 0.146% |
| 302 | 13.866 | 13.804 | 13.949 | VV | 810    | 35862   | 2.66%  | 0.198% |
| 303 | 14.024 | 13.949 | 14.049 | VV | 1665   | 43764   | 3.24%  | 0.242% |
| 304 | 14.070 | 14.049 | 14.091 | VV | 1228   | 19419   | 1.44%  | 0.107% |
| 305 | 14.130 | 14.091 | 14.158 | VV | 658    | 20730   | 1.53%  | 0.115% |
| 306 | 14.178 | 14.158 | 14.196 | VV | 441    | 7961    | 0.59%  | 0.044% |
| 307 | 14.213 | 14.196 | 14.259 | VV | 460    | 8534    | 0.63%  | 0.047% |
| 308 | 14.288 | 14.259 | 14.316 | PV | 486    | 8065    | 0.60%  | 0.045% |
| 309 | 14.328 | 14.316 | 14.404 | VV | 222    | 7078    | 0.52%  | 0.039% |
| 310 | 14.433 | 14.404 | 14.451 | PV | 465    | 7747    | 0.57%  | 0.043% |
| 311 | 14.480 | 14.451 | 14.534 | VV | 1867   | 46303   | 3.43%  | 0.256% |
| 312 | 14.589 | 14.534 | 14.611 | VV | 795    | 22238   | 1.65%  | 0.123% |
| 313 | 14.634 | 14.611 | 14.659 | VV | 3647   | 51464   | 3.81%  | 0.284% |
| 314 | 14.689 | 14.659 | 14.719 | VV | 911    | 25588   | 1.89%  | 0.141% |
| 315 | 14.735 | 14.719 | 14.764 | VV | 834    | 14503   | 1.07%  | 0.080% |
| 316 | 14.794 | 14.764 | 14.811 | VV | 606    | 11290   | 0.84%  | 0.062% |
| 317 | 14.838 | 14.811 | 14.867 | VV | 1086   | 24435   | 1.81%  | 0.135% |
| 318 | 14.879 | 14.867 | 14.937 | VV | 645    | 19050   | 1.41%  | 0.105% |
| 319 | 14.973 | 14.937 | 15.092 | VV | 96628  | 1334716 | 98.82% | 7.372% |
| 320 | 15.180 | 15.092 | 15.209 | VV | 3939   | 132988  | 9.85%  | 0.735% |
| 321 | 15.219 | 15.209 | 15.284 | VV | 2846   | 66469   | 4.92%  | 0.367% |
| 322 | 15.303 | 15.284 | 15.342 | VV | 843    | 18829   | 1.39%  | 0.104% |
| 323 | 15.370 | 15.342 | 15.436 | VV | 845    | 17223   | 1.28%  | 0.095% |
| 324 | 15.443 | 15.436 | 15.466 | VV | 144    | 1250    | 0.09%  | 0.007% |
| 325 | 15.510 | 15.466 | 15.531 | PV | 469    | 9726    | 0.72%  | 0.054% |
| 326 | 15.564 | 15.531 | 15.645 | VV | 32131  | 670123  | 49.62% | 3.701% |
| 327 | 15.652 | 15.645 | 15.672 | VV | 907    | 12164   | 0.90%  | 0.067% |
| 328 | 15.699 | 15.672 | 15.734 | VV | 3339   | 61680   | 4.57%  | 0.341% |
| 329 | 15.763 | 15.734 | 15.801 | VV | 4853   | 72903   | 5.40%  | 0.403% |
| 330 | 15.831 | 15.801 | 15.867 | VV | 767    | 18054   | 1.34%  | 0.100% |
| 331 | 15.877 | 15.867 | 15.896 | VV | 361    | 4845    | 0.36%  | 0.027% |
| 332 | 15.919 | 15.896 | 15.934 | VV | 323    | 5699    | 0.42%  | 0.031% |
| 333 | 15.996 | 15.934 | 16.044 | VV | 576    | 27069   | 2.00%  | 0.150% |
| 334 | 16.090 | 16.044 | 16.137 | VV | 1915   | 47021   | 3.48%  | 0.260% |
| 335 | 16.166 | 16.137 | 16.177 | VV | 536    | 8627    | 0.64%  | 0.048% |
| 336 | 16.200 | 16.177 | 16.241 | VV | 2599   | 35634   | 2.64%  | 0.197% |
| 337 | 16.265 | 16.241 | 16.299 | PV | 1687   | 24209   | 1.79%  | 0.134% |
| 338 | 16.328 | 16.299 | 16.356 | VV | 219    | 4919    | 0.36%  | 0.027% |
| 339 | 16.393 | 16.356 | 16.407 | PV | 318    | 3885    | 0.29%  | 0.021% |
| 340 | 16.431 | 16.407 | 16.456 | VV | 191    | 3452    | 0.26%  | 0.019% |
| 341 | 16.493 | 16.456 | 16.503 | PV | 415    | 5475    | 0.41%  | 0.030% |
| 342 | 16.583 | 16.503 | 16.636 | VV | 16185  | 362386  | 26.83% | 2.002% |
| 343 | 16.647 | 16.636 | 16.663 | VV | 2040   | 30331   | 2.25%  | 0.168% |
| 344 | 16.684 | 16.663 | 16.702 | VV | 3954   | 57074   | 4.23%  | 0.315% |
| 345 | 16.722 | 16.702 | 16.734 | VV | 4162   | 60246   | 4.46%  | 0.333% |
| 346 | 16.754 | 16.734 | 16.827 | VV | 5768   | 127786  | 9.46%  | 0.706% |
| 347 | 16.850 | 16.827 | 16.881 | VV | 683    | 17868   | 1.32%  | 0.099% |
| 348 | 16.887 | 16.881 | 16.941 | VV | 523    | 7874    | 0.58%  | 0.043% |
| 349 | 17.043 | 16.941 | 17.092 | PV | 2787   | 97459   | 7.22%  | 0.538% |
| 350 | 17.119 | 17.092 | 17.131 | VV | 2995   | 52869   | 3.91%  | 0.292% |
| 351 | 17.151 | 17.131 | 17.187 | VV | 4120   | 84894   | 6.29%  | 0.469% |

|     |        |        |        |    | rteres |        |        |        |
|-----|--------|--------|--------|----|--------|--------|--------|--------|
| 352 | 17.229 | 17.187 | 17.305 | VV | 3514   | 76542  | 5.67%  | 0.423% |
| 353 | 17.387 | 17.305 | 17.421 | PV | 579    | 17275  | 1.28%  | 0.095% |
| 354 | 17.429 | 17.421 | 17.440 | VV | 209    | 1924   | 0.14%  | 0.011% |
| 355 | 17.532 | 17.440 | 17.576 | VV | 7797   | 187698 | 13.90% | 1.037% |
| 356 | 17.603 | 17.576 | 17.648 | VV | 7445   | 123267 | 9.13%  | 0.681% |
| 357 | 17.698 | 17.648 | 17.747 | VV | 1904   | 66098  | 4.89%  | 0.365% |
| 358 | 17.771 | 17.747 | 17.798 | VV | 628    | 12999  | 0.96%  | 0.072% |
| 359 | 17.817 | 17.798 | 17.849 | VV | 385    | 7018   | 0.52%  | 0.039% |
| 360 | 17.938 | 17.849 | 17.949 | PV | 375    | 11875  | 0.88%  | 0.066% |
| 361 | 18.000 | 17.949 | 18.017 | VV | 2227   | 52679  | 3.90%  | 0.291% |
| 362 | 18.042 | 18.017 | 18.067 | VV | 4593   | 73997  | 5.48%  | 0.409% |
| 363 | 18.083 | 18.067 | 18.099 | VV | 758    | 11170  | 0.83%  | 0.062% |
| 364 | 18.132 | 18.099 | 18.161 | VV | 4802   | 77593  | 5.74%  | 0.429% |
| 365 | 18.178 | 18.161 | 18.194 | VV | 898    | 13947  | 1.03%  | 0.077% |
| 366 | 18.214 | 18.194 | 18.229 | VV | 851    | 12655  | 0.94%  | 0.070% |
| 367 | 18.266 | 18.229 | 18.297 | VV | 2364   | 39204  | 2.90%  | 0.217% |
| 368 | 18.361 | 18.297 | 18.381 | PV | 2127   | 47316  | 3.50%  | 0.261% |
| 369 | 18.411 | 18.381 | 18.447 | VV | 19873  | 412468 | 30.54% | 2.278% |
| 370 | 18.467 | 18.447 | 18.496 | VV | 11116  | 195794 | 14.50% | 1.081% |
| 371 | 18.518 | 18.496 | 18.535 | VV | 2618   | 58094  | 4.30%  | 0.321% |
| 372 | 18.553 | 18.535 | 18.601 | VV | 2226   | 53146  | 3.93%  | 0.294% |
| 373 | 18.689 | 18.601 | 18.710 | VV | 515    | 17205  | 1.27%  | 0.095% |
| 374 | 18.751 | 18.710 | 18.796 | PV | 2083   | 44453  | 3.29%  | 0.246% |
| 375 | 18.876 | 18.796 | 18.917 | VV | 5851   | 136902 | 10.14% | 0.756% |
| 376 | 18.945 | 18.917 | 18.954 | VV | 1707   | 24466  | 1.81%  | 0.135% |
| 377 | 18.976 | 18.954 | 19.005 | VV | 4483   | 79329  | 5.87%  | 0.438% |
| 378 | 19.023 | 19.005 | 19.046 | VV | 1913   | 35139  | 2.60%  | 0.194% |
| 379 | 19.064 | 19.046 | 19.088 | VV | 766    | 12225  | 0.91%  | 0.068% |
| 380 | 19.110 | 19.088 | 19.121 | PV | 259    | 2806   | 0.21%  | 0.016% |
| 381 | 19.147 | 19.121 | 19.168 | VV | 2077   | 32146  | 2.38%  | 0.178% |
| 382 | 19.239 | 19.168 | 19.262 | VV | 14358  | 310603 | 23.00% | 1.716% |
| 383 | 19.274 | 19.262 | 19.324 | VV | 9725   | 209759 | 15.53% | 1.159% |
| 384 | 19.345 | 19.324 | 19.376 | VV | 2536   | 64866  | 4.80%  | 0.358% |
| 385 | 19.400 | 19.376 | 19.432 | VV | 2218   | 62188  | 4.60%  | 0.343% |
| 386 | 19.439 | 19.432 | 19.457 | VV | 1419   | 16727  | 1.24%  | 0.092% |
| 387 | 19.514 | 19.457 | 19.547 | VV | 2715   | 84150  | 6.23%  | 0.465% |
| 388 | 19.569 | 19.547 | 19.604 | VV | 1865   | 36812  | 2.73%  | 0.203% |
| 389 | 19.662 | 19.604 | 19.697 | VV | 2905   | 68354  | 5.06%  | 0.378% |
| 390 | 19.724 | 19.697 | 19.744 | VV | 2805   | 46897  | 3.47%  | 0.259% |
| 391 | 19.772 | 19.744 | 19.794 | VV | 3642   | 77939  | 5.77%  | 0.430% |
| 392 | 19.803 | 19.794 | 19.816 | VV | 2750   | 32604  | 2.41%  | 0.180% |
| 393 | 19.836 | 19.816 | 19.865 | VV | 3223   | 71116  | 5.27%  | 0.393% |
| 394 | 19.947 | 19.865 | 19.970 | VV | 4649   | 187742 | 13.90% | 1.037% |
| 395 | 20.003 | 19.970 | 20.054 | VV | 25745  | 584707 | 43.29% | 3.230% |
| 396 | 20.067 | 20.054 | 20.096 | VV | 6736   | 147630 | 10.93% | 0.815% |
| 397 | 20.107 | 20.096 | 20.137 | VV | 4878   | 113499 | 8.40%  | 0.627% |
| 398 | 20.182 | 20.137 | 20.201 | VV | 5218   | 183886 | 13.61% | 1.016% |
| 399 | 20.240 | 20.201 | 20.259 | VV | 7067   | 214976 | 15.92% | 1.187% |
| 400 | 20.280 | 20.259 | 20.298 | VV | 7612   | 166141 | 12.30% | 0.918% |
| 401 | 20.330 | 20.298 | 20.356 | VV | 8916   | 262120 | 19.41% | 1.448% |
| 402 | 20.401 | 20.356 | 20.425 | VV | 8582   | 325902 | 24.13% | 1.800% |
| 403 | 20.456 | 20.425 | 20.488 | VV | 8434   | 307101 | 22.74% | 1.696% |
| 404 | 20.520 | 20.488 | 20.530 | VV | 8250   | 201712 | 14.93% | 1.114% |

|     |        |        |                         |     |       |         |          |        |
|-----|--------|--------|-------------------------|-----|-------|---------|----------|--------|
|     |        |        |                         |     |       | rters   |          |        |
| 405 | 20.561 | 20.530 | 20.589                  | VV  | 10604 | 324592  | 24.03%   | 1.793% |
| 406 | 20.758 | 20.589 | 20.821                  | VV  | 11678 | 1350628 | 100.00%  | 7.460% |
| 407 | 20.869 | 20.821 | 20.905                  | VV  | 10302 | 509042  | 37.69%   | 2.812% |
| 408 | 20.929 | 20.905 | 20.972                  | VV  | 10055 | 386964  | 28.65%   | 2.137% |
| 409 | 20.990 | 20.972 | 20.997                  | VV  | 9106  | 134340  | 9.95%    | 0.742% |
| 410 | 21.040 | 20.997 | 21.078                  | VV  | 9272  | 428659  | 31.74%   | 2.368% |
| 411 | 21.135 | 21.078 | 21.179                  | VV  | 9243  | 520212  | 38.52%   | 2.873% |
| 412 | 21.248 | 21.179 | 21.262                  | VV  | 7613  | 379845  | 28.12%   | 2.098% |
| 413 | 21.269 | 21.262 | 21.277                  | VV  | 7286  | 65752   | 4.87%    | 0.363% |
| 414 | 21.291 | 21.277 | 21.331                  | VV  | 7346  | 226522  | 16.77%   | 1.251% |
| 415 | 21.340 | 21.331 | 21.431                  | VV  | 6880  | 369225  | 27.34%   | 2.039% |
| 416 | 21.465 | 21.431 | 21.529                  | VV  | 5636  | 299704  | 22.19%   | 1.655% |
| 417 | 21.569 | 21.529 | 21.617                  | VV  | 4569  | 223798  | 16.57%   | 1.236% |
| 418 | 21.624 | 21.617 | 21.638                  | VV  | 3732  | 45275   | 3.35%    | 0.250% |
| 419 | 21.702 | 21.638 | 21.716                  | VV  | 3328  | 155861  | 11.54%   | 0.861% |
| 420 | 21.725 | 21.716 | 21.736                  | VV  | 3214  | 37986   | 2.81%    | 0.210% |
| 421 | 21.744 | 21.736 | 21.756                  | VV  | 3080  | 34474   | 2.55%    | 0.190% |
| 422 | 21.796 | 21.756 | 21.819                  | VV  | 2696  | 97771   | 7.24%    | 0.540% |
| 423 | 21.841 | 21.819 | 21.873                  | VV  | 2376  | 72005   | 5.33%    | 0.398% |
| 424 | 21.885 | 21.873 | 21.954                  | VV  | 2046  | 78656   | 5.82%    | 0.434% |
| 425 | 21.983 | 21.954 | 22.011                  | VV  | 1115  | 32450   | 2.40%    | 0.179% |
| 426 | 22.041 | 22.011 | 22.071                  | VBA | 764   | 38208   | 2.83%    | 0.211% |
|     |        |        | Sum of corrected areas: |     |       |         | 18104415 |        |

FG052225.M Wed Jun 11 01:56:23 2025



# CALIBRATION SUMMARY

**TPH GC INITIAL CALIBRATION SUMMARY**

Lab Name: Chemtech Contract: SCIA01  
 ProjectID: 98 Morse Ave Nutley  
 Lab Code: CHEM Case No.: Q2147 SAS No.: Q2147 SDG No.: Q2147

| Calibration Sequence : FG052225 |            | Test : TPH GC    |                  |
|---------------------------------|------------|------------------|------------------|
| Concentration (PPM)             | Area Count | Reference Factor | File ID          |
| 1700                            | 205023420  | 120602           | FG015886.D       |
| 850                             | 105950670  | 124648           | FG015887.D       |
| 340                             | 42697248   | 125580           | FG015888.D       |
| 170                             | 22436219   | 131978           | FG015889.D       |
| 85                              | 10374809   | 122057           | FG015890.D       |
| AVG RF : 124973                 |            | % RSD : 3.514    | AVG RT : 14.9848 |

**TPH GC CONTINUING CALIBRATION SUMMARY**

**50 PPM TRPH STD**

Lab Name: Chemtech Contract: SCIA01  
ProjectID: 98 Morse Ave Nutley  
Lab Code: CHEM Case No.: Q2147 SAS No.: Q2147 SDG No.: Q2147  
DataFile: FG016002.D Analyst Name: YP\AJ Analyst Date: 06-10-2025

| Conc. (PPM) | Area Count | RF     | Average RF | %D    |
|-------------|------------|--------|------------|-------|
| 850         | 98091291   | 115402 | 124973     | 7.658 |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
 Data File : FG016002.D  
 Signal(s) : FID1A.ch  
 Acq On : 10 Jun 2025 11:01  
 Operator : YP\AJ  
 Sample : 50 PPM TRPH STD  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 FID\_G  
 ClientSampleId :  
 50 PPM TRPH STD

Integration File: autoint1.e  
 Quant Time: Jun 11 01:36:45 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
 Quant Title :  
 QLast Update : Thu May 22 06:20:25 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal Phase : Rxi-1ms  
 Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 14.978 | 5600819  | 45.698 ug/ml |
| Target Compounds              |        |          |              |
| 1) N-OCTANE                   | 1.950  | 5758540  | 48.974 ug/ml |
| 2) N-DECANE                   | 4.477  | 5958115  | 50.708 ug/ml |
| 3) N-DODECANE                 | 6.661  | 6156190  | 50.722 ug/ml |
| 4) N-TETRADECANE              | 8.497  | 6323539  | 49.522 ug/ml |
| 5) N-HEXADECANE               | 10.111 | 6427747  | 48.246 ug/ml |
| 6) N-OCTADECANE               | 11.559 | 6575702  | 47.648 ug/ml |
| 7) N-EICOSANE                 | 12.874 | 6630212  | 46.931 ug/ml |
| 8) N-DOCOSANE                 | 14.076 | 6384507  | 46.478 ug/ml |
| 10) N-TETRACOSANE             | 15.182 | 6284637  | 45.716 ug/ml |
| 11) N-HEXACOSANE              | 16.206 | 6150037  | 45.265 ug/ml |
| 12) N-OCTACOSANE              | 17.159 | 6015389  | 44.616 ug/ml |
| 13) N-TRIACONTANE             | 18.048 | 6044276  | 44.297 ug/ml |
| 14) N-DOTRIACONTANE           | 18.883 | 5811965  | 43.394 ug/ml |
| 15) N-TETRATRIACONTANE        | 19.668 | 5271193  | 43.468 ug/ml |
| 16) N-HEXATRIACONTANE         | 20.409 | 4528744  | 42.409 ug/ml |
| 17) N-OCTATRIACONTANE         | 21.144 | 4011742  | 41.803 ug/ml |
| 18) N-TETRACONTANE            | 22.053 | 3758756  | 42.737 ug/ml |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

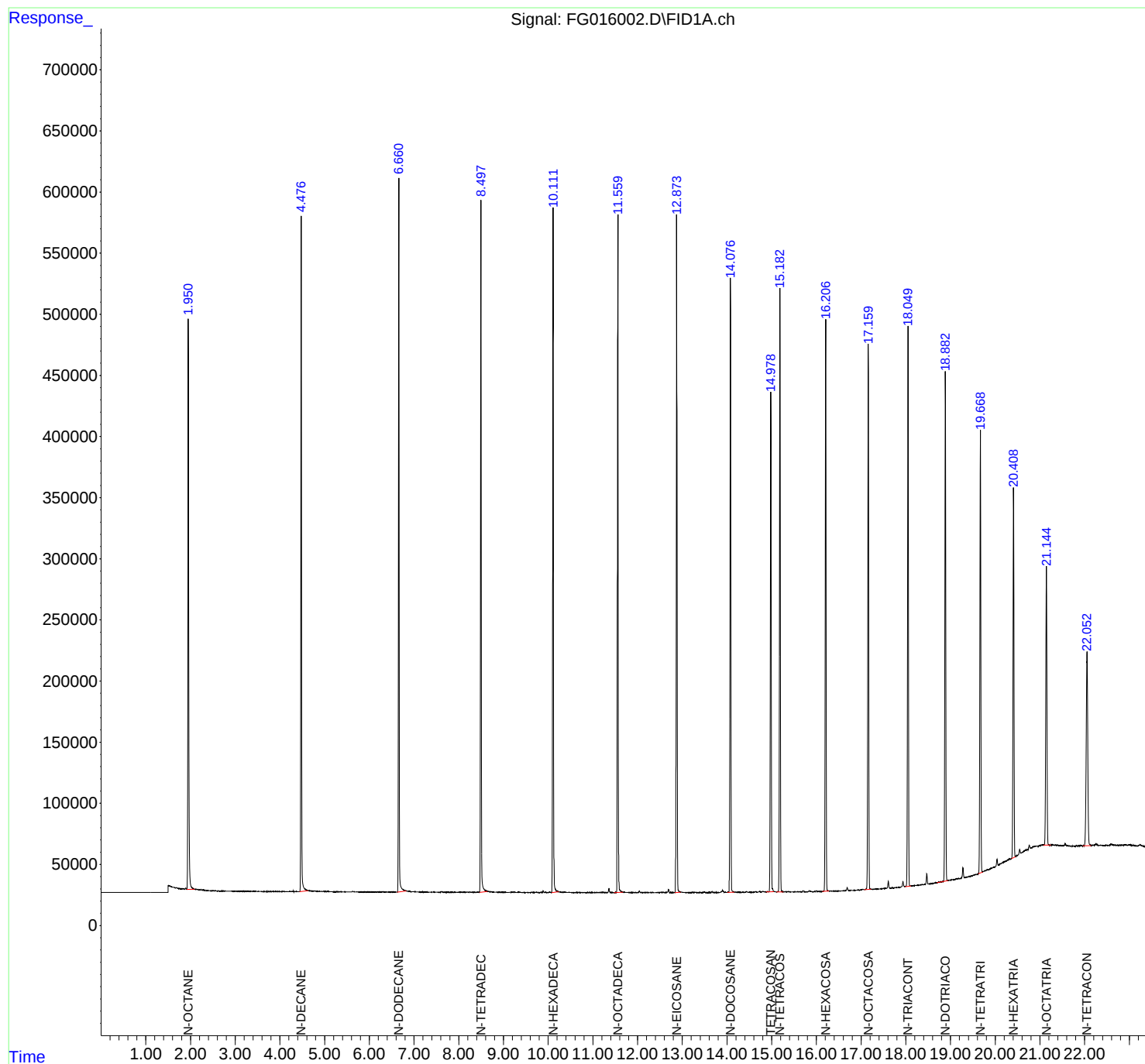
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016002.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 11:01  
Operator : YP\AJ  
Sample : 50 PPM TRPH STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
FID\_G  
ClientSampleId :  
50 PPM TRPH STD

Integration File: autoint1.e  
Quant Time: Jun 11 01:36:45 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Quant Title :  
QLast Update : Thu May 22 06:20:25 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016002.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 11:01  
Sample : 50 PPM TRPH STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Title :

Signal : FID1A.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 1.950       | 1.914        | 2.094      | PB       | 465281         | 5758540      | 86.85%         | 5.553%        |
| 2                       | 4.477       | 4.435        | 4.631      | BB       | 551753         | 5958115      | 89.86%         | 5.746%        |
| 3                       | 6.661       | 6.620        | 6.827      | BB       | 583828         | 6156190      | 92.85%         | 5.937%        |
| 4                       | 8.497       | 8.461        | 8.645      | BB       | 565127         | 6323539      | 95.37%         | 6.098%        |
| 5                       | 10.112      | 10.075       | 10.235     | BB       | 559599         | 6427747      | 96.95%         | 6.199%        |
| 6                       | 11.559      | 11.472       | 11.665     | BB       | 555055         | 6575702      | 99.18%         | 6.342%        |
| 7                       | 12.874      | 12.832       | 12.963     | BB       | 554812         | 6630212      | 100.00%        | 6.394%        |
| 8                       | 14.076      | 14.005       | 14.161     | BB       | 495973         | 6384507      | 96.29%         | 6.157%        |
| 9                       | 14.978      | 14.872       | 15.049     | BB       | 408123         | 5600819      | 84.47%         | 5.401%        |
| 10                      | 15.182      | 15.106       | 15.261     | BB       | 493086         | 6284637      | 94.79%         | 6.061%        |
| 11                      | 16.206      | 16.131       | 16.280     | BB       | 466869         | 6150037      | 92.76%         | 5.931%        |
| 12                      | 17.159      | 17.071       | 17.225     | BB       | 445754         | 6015389      | 90.73%         | 5.801%        |
| 13                      | 18.048      | 17.981       | 18.118     | BB       | 457719         | 6044276      | 91.16%         | 5.829%        |
| 14                      | 18.883      | 18.695       | 18.946     | BB       | 411967         | 5811965      | 87.66%         | 5.605%        |
| 15                      | 19.668      | 19.620       | 19.712     | BV       | 361337         | 5271193      | 79.50%         | 5.084%        |
| 16                      | 20.409      | 20.360       | 20.452     | BV       | 302614         | 4528744      | 68.30%         | 4.367%        |
| 17                      | 21.144      | 21.081       | 21.237     | BB       | 228435         | 4011742      | 60.51%         | 3.869%        |
| 18                      | 22.053      | 21.962       | 22.147     | BV       | 158374         | 3758756      | 56.69%         | 3.625%        |
| Sum of corrected areas: |             |              |            |          |                | 103692112    |                |               |

FG052225.M Wed Jun 11 01:52:47 2025

**TPH GC CONTINUING CALIBRATION SUMMARY**

**50 PPM TRPH STD**

Lab Name: Chemtech Contract: SCIA01  
ProjectID: 98 Morse Ave Nutley  
Lab Code: CHEM Case No.: Q2147 SAS No.: Q2147 SDG No.: Q2147  
DataFile: FG016010.D Analyst Name: YP\AJ Analyst Date: 06-10-2025

| Conc. (PPM) | Area Count | RF     | Average RF | %D    |
|-------------|------------|--------|------------|-------|
| 850         | 99554971   | 117123 | 124973     | 6.281 |

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
 Data File : FG016010.D  
 Signal(s) : FID1A.ch  
 Acq On : 10 Jun 2025 15:06  
 Operator : YP\AJ  
 Sample : 50 PPM TRPH STD  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 FID\_G  
 ClientSampleId :  
 50 PPM TRPH STD

Integration File: autoint1.e  
 Quant Time: Jun 11 01:39:40 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
 Quant Title :  
 QLast Update : Thu May 22 06:20:25 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal Phase : Rxi-1ms  
 Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 14.976 | 5628825  | 45.927 ug/ml |
| Target Compounds              |        |          |              |
| 1) N-OCTANE                   | 1.950  | 5859317  | 49.831 ug/ml |
| 2) N-DECANE                   | 4.476  | 6067037  | 51.635 ug/ml |
| 3) N-DODECANE                 | 6.660  | 6233451  | 51.358 ug/ml |
| 4) N-TETRADECANE              | 8.497  | 6418218  | 50.264 ug/ml |
| 5) N-HEXADECANE               | 10.110 | 6510938  | 48.870 ug/ml |
| 6) N-OCTADECANE               | 11.557 | 6662857  | 48.280 ug/ml |
| 7) N-EICOSANE                 | 12.873 | 6709400  | 47.491 ug/ml |
| 8) N-DOCOSANE                 | 14.074 | 6452989  | 46.977 ug/ml |
| 10) N-TETRACOSANE             | 15.181 | 6354713  | 46.226 ug/ml |
| 11) N-HEXACOSANE              | 16.204 | 6226365  | 45.826 ug/ml |
| 12) N-OCTACOSANE              | 17.157 | 6097879  | 45.228 ug/ml |
| 13) N-TRIACONTANE             | 18.045 | 6135285  | 44.964 ug/ml |
| 14) N-DOTRIACONTANE           | 18.880 | 5908072  | 44.112 ug/ml |
| 15) N-TETRATRIACONTANE        | 19.665 | 5363637  | 44.231 ug/ml |
| 16) N-HEXATRIACONTANE         | 20.407 | 4609188  | 43.163 ug/ml |
| 17) N-OCTATRIACONTANE         | 21.141 | 4102672  | 42.751 ug/ml |
| 18) N-TETRACONTANE            | 22.051 | 3842953  | 43.694 ug/ml |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

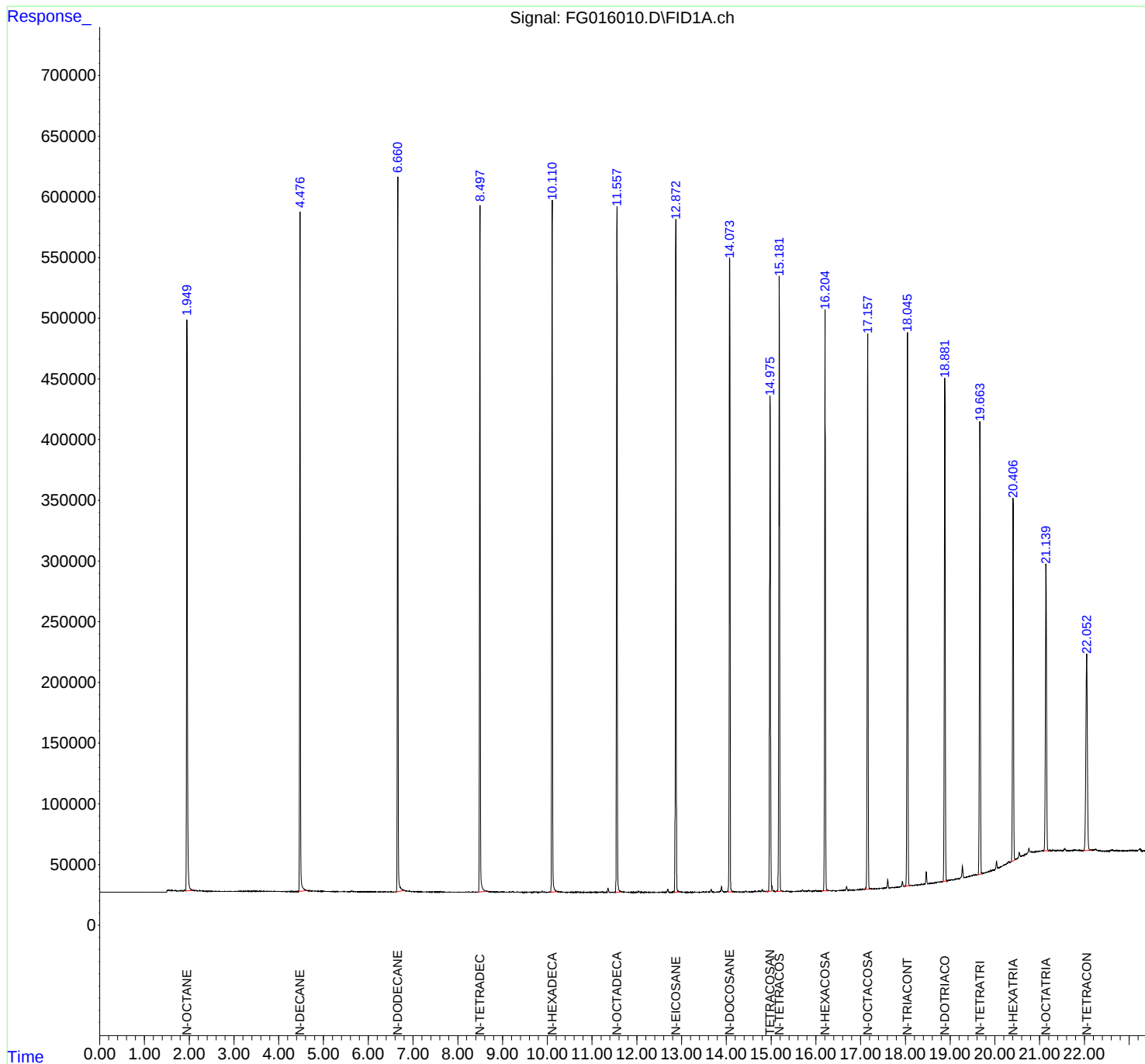
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016010.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 15:06  
Operator : YP\AJ  
Sample : 50 PPM TRPH STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
FID\_G  
ClientSampleId :  
50 PPM TRPH STD

Integration File: autoint1.e  
Quant Time: Jun 11 01:39:40 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Quant Title :  
QLast Update : Thu May 22 06:20:25 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um



rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016010.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 15:06  
Sample : 50 PPM TRPH STD  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Title :

Signal : FID1A.ch

| peak<br># | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-----------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1         | 1.950       | 1.919        | 2.091      | BB       | 471149         | 5859317      | 87.33%         | 5.571%        |
| 2         | 4.476       | 4.433        | 4.625      | BB       | 559047         | 6067037      | 90.43%         | 5.768%        |
| 3         | 6.660       | 6.618        | 6.805      | BB       | 589259         | 6233451      | 92.91%         | 5.926%        |
| 4         | 8.497       | 8.457        | 8.645      | BB       | 564209         | 6418218      | 95.66%         | 6.102%        |
| 5         | 10.110      | 10.072       | 10.233     | BB       | 570271         | 6510938      | 97.04%         | 6.190%        |
| 6         | 11.557      | 11.515       | 11.662     | BB       | 564489         | 6662857      | 99.31%         | 6.334%        |
| 7         | 12.873      | 12.832       | 12.962     | BB       | 553947         | 6709400      | 100.00%        | 6.379%        |
| 8         | 14.074      | 14.038       | 14.164     | VB       | 520379         | 6452989      | 96.18%         | 6.135%        |
| 9         | 14.976      | 14.877       | 15.009     | BV       | 406382         | 5628825      | 83.89%         | 5.351%        |
| 10        | 15.181      | 15.100       | 15.254     | BB       | 504975         | 6354713      | 94.71%         | 6.042%        |
| 11        | 16.204      | 16.133       | 16.278     | BB       | 475624         | 6226365      | 92.80%         | 5.920%        |
| 12        | 17.157      | 17.084       | 17.216     | BB       | 452550         | 6097879      | 90.89%         | 5.797%        |
| 13        | 18.045      | 17.975       | 18.105     | BB       | 454615         | 6135285      | 91.44%         | 5.833%        |
| 14        | 18.880      | 18.813       | 18.933     | BB       | 412839         | 5908072      | 88.06%         | 5.617%        |
| 15        | 19.665      | 19.620       | 19.718     | BV       | 366477         | 5363637      | 79.94%         | 5.099%        |
| 16        | 20.407      | 20.360       | 20.448     | BV       | 297452         | 4609188      | 68.70%         | 4.382%        |
| 17        | 21.141      | 21.080       | 21.213     | BV       | 234597         | 4102672      | 61.15%         | 3.900%        |
| 18        | 22.051      | 21.970       | 22.143     | BB       | 162217         | 3842953      | 57.28%         | 3.654%        |

Sum of corrected areas: 105183796

FG052225.M Wed Jun 11 01:55:36 2025

## Analytical Sequence

**Client:** Sciacca General Contractors, LLC

**SDG No.:** Q2147

**Project:** 98 Morse Ave Nutley

**Instrument ID:** FID\_G

**GC Column:** RXI-1MS      **ID:** 0.18      (mm)

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,  
AND STANDARDS IS GIVEN BELOW:

| MEAN SUROGATE RT FROM INITIAL CALIBRATION <b>14.9848</b> |                  |                           |            |        |   |
|----------------------------------------------------------|------------------|---------------------------|------------|--------|---|
| EPA<br>SAMPLE NO.                                        | LAB<br>SAMPLE ID | DATE AND TIME<br>ANALYZED | DATAFILE   | RT     | # |
| PIBLK01                                                  | LBLK01           | 10 Jun 2025 10:32         | FG016001.D | 14.975 |   |
| 50 PPM TRPH STD                                          | 50 PPM TRPH STD  | 10 Jun 2025 11:01         | FG016002.D | 14.978 |   |
| PB168365BL                                               | PB168365BL       | 10 Jun 2025 12:10         | FG016004.D | 14.975 |   |
| PB168365BS                                               | PB168365BS       | 10 Jun 2025 12:39         | FG016005.D | 14.974 |   |
| WASTE                                                    | Q2147-01         | 10 Jun 2025 13:08         | FG016006.D | 14.973 |   |
| WASTEMS                                                  | Q2147-01MS       | 10 Jun 2025 13:38         | FG016007.D | 14.972 |   |
| WASTEMSD                                                 | Q2147-01MSD      | 10 Jun 2025 14:07         | FG016008.D | 14.974 |   |
| PIBLK02                                                  | LBLK02           | 10 Jun 2025 14:37         | FG016009.D | 14.973 |   |
| 50 PPM TRPH STD                                          | 50 PPM TRPH STD  | 10 Jun 2025 15:06         | FG016010.D | 14.976 |   |



# QC SAMPLE DATA

## Report of Analysis

|                    |                                  |          |                    |        |           |
|--------------------|----------------------------------|----------|--------------------|--------|-----------|
| Client:            | Sciacca General Contractors, LLC |          | Date Collected:    |        |           |
| Project:           | 98 Morse Ave Nutley              |          | Date Received:     |        |           |
| Client Sample ID:  | PB168365BL                       |          | SDG No.:           | Q2147  |           |
| Lab Sample ID:     | PB168365BL                       |          | Matrix:            | SOIL   |           |
| Analytical Method: | 8015D TPH                        |          | % Solid:           | 100    | Decanted: |
| Sample Wt/Vol:     | 30.01                            | Units: g | Final Vol:         | 1      | mL        |
| Soil Aliquot Vol:  |                                  | uL       | Test:              | TPH GC |           |
| Extraction Type:   |                                  |          | Injection Volume : |        |           |
| GPC Factor :       |                                  | PH :     |                    |        |           |
| Prep Method :      | SW3541                           |          |                    |        |           |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| FG016004.D        | 1         | 06/09/25 10:35 | 06/10/25 12:10 | PB168365      |

| CAS Number        | Parameter              | Conc. | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-------------------|------------------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                        |       |           |          |            |                   |
| PHC               | Petroleum Hydrocarbons | 384   | U         | 384      | 2830       | ug/kg             |
| <b>SURROGATES</b> |                        |       |           |          |            |                   |
| 16416-32-3        | TETRACOSANE-d50        | 14.1  |           | 37 - 130 | 70%        | SPK: 20           |

### Comments:

U = Not Detected  
 LOQ = Limit of Quantitation  
 MDL = Method Detection Limit  
 LOD = Limit of Detection  
 E = Value Exceeds Calibration Range  
 P = Indicates >25% difference for detected concentrations between the two GC columns  
 Q = indicates LCS control criteria did not meet requirements  
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value  
 B = Analyte Found in Associated Method Blank  
 N = Presumptive Evidence of a Compound  
 \* = Values outside of QC limits  
 D = Dilution  
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.  
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016004.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 12:10  
Operator : YP\AJ  
Sample : PB168365BL  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
FID\_G  
ClientSampleId :  
PB168365BL

Integration File: autoint1.e  
Quant Time: Jun 11 01:37:23 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Quant Title :  
QLast Update : Thu May 22 06:20:25 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 14.975 | 1727555  | 14.095 ug/ml |

Target Compounds

-----

(f)=RT Delta > 1/2 Window

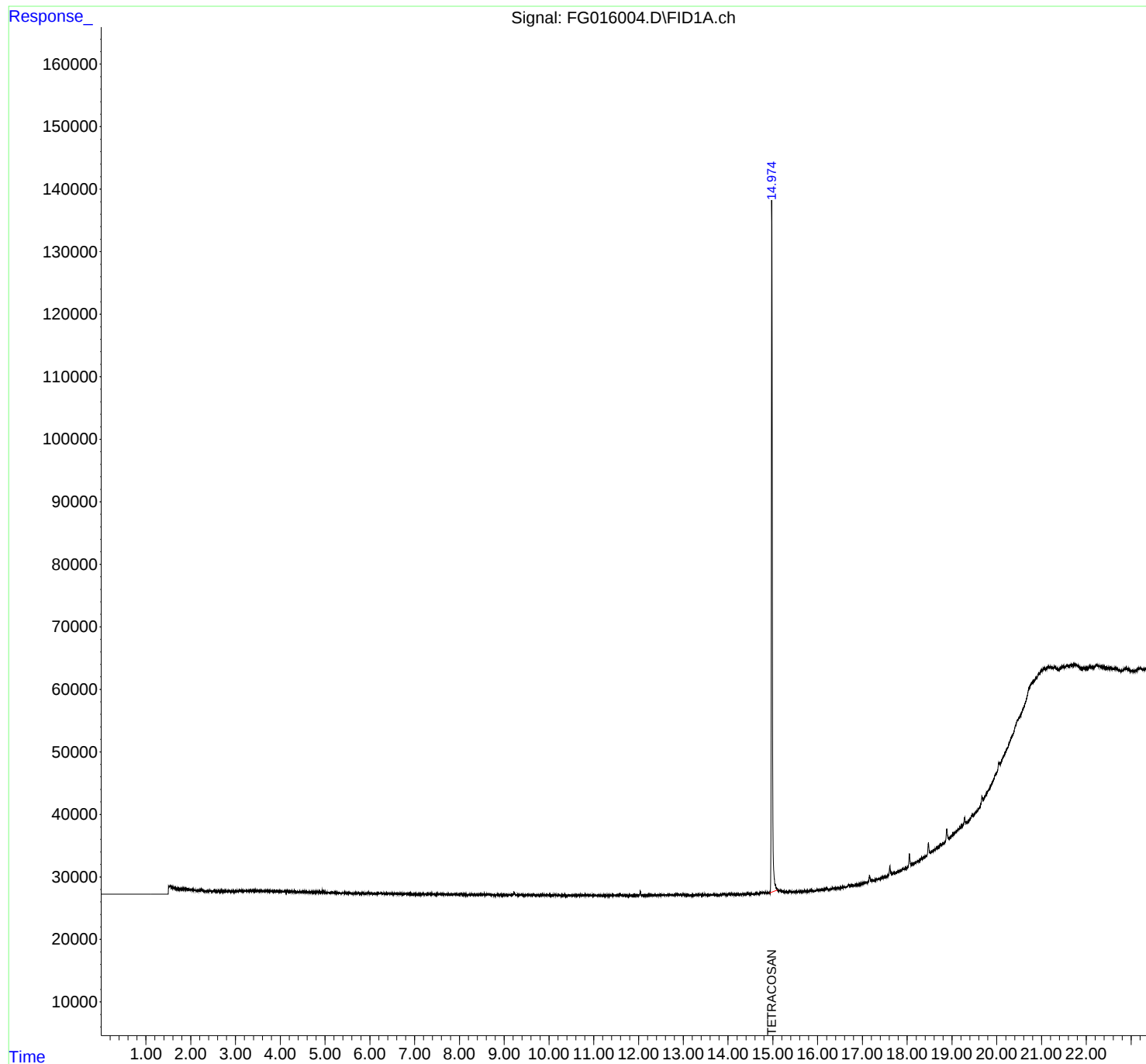
(m)=manual int.

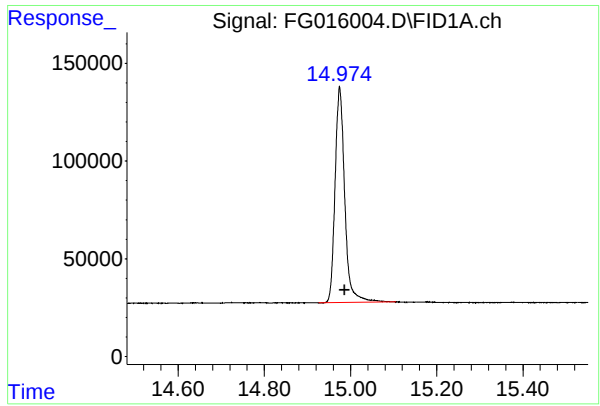
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016004.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 12:10  
Operator : YP\AJ  
Sample : PB168365BL  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
FID\_G  
ClientSampleId :  
PB168365BL

Integration File: autoint1.e  
Quant Time: Jun 11 01:37:23 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Quant Title :  
QLast Update : Thu May 22 06:20:25 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.975 min

Delta R.T.: -0.011 min

Response: 1727555

Conc: 14.10 ug/ml

Instrument :

FID\_G

ClientSampleId :

PB168365BL

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016004.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 12:10  
Sample : PB168365BL  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Title :

Signal : FID1A.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 14.975      | 14.927       | 15.105     | BB       | 110508         | 1727555      | 100.00%        | 100.000%      |
| Sum of corrected areas: |             |              |            |          |                | 1727555      |                |               |

FG052225.M Wed Jun 11 01:53:29 2025

## Report of Analysis

|                    |                                  |                    |          |
|--------------------|----------------------------------|--------------------|----------|
| Client:            | Sciacca General Contractors, LLC | Date Collected:    | 06/10/25 |
| Project:           | 98 Morse Ave Nutley              | Date Received:     | 06/10/25 |
| Client Sample ID:  | PIBLK-FG016001.D                 | SDG No.:           | Q2147    |
| Lab Sample ID:     | I.BLK-FG016001.D                 | Matrix:            | Water    |
| Analytical Method: | 8015D TPH                        | % Solid:           | 0        |
| Sample Wt/Vol:     | 1000                             | Units:             | mL       |
| Soil Aliquot Vol:  |                                  |                    | uL       |
| Extraction Type:   |                                  | Test:              | TPH GC   |
| GPC Factor :       |                                  | Injection Volume : |          |
| Prep Method :      | SW3510                           |                    |          |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| FG016001.D        | 1         |           | 06/10/25      | FG061025      |

| CAS Number        | Parameter              | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                        |       |           |          |            |         |
| PHC               | Petroleum Hydrocarbons | 12.0  | U         | 12.0     | 85.0       | ug/L    |
| <b>SURROGATES</b> |                        |       |           |          |            |         |
| 16416-32-3        | TETRACOSANE-d50        | 15.4  |           | 29 - 130 | 77%        | SPK: 20 |

### Comments:

U = Not Detected  
 LOQ = Limit of Quantitation  
 MDL = Method Detection Limit  
 LOD = Limit of Detection  
 E = Value Exceeds Calibration Range  
 P = Indicates >25% difference for detected concentrations between the two GC columns  
 Q = indicates LCS control criteria did not meet requirements  
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value  
 B = Analyte Found in Associated Method Blank  
 N = Presumptive Evidence of a Compound  
 \* = Values outside of QC limits  
 D = Dilution  
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.  
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016001.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 10:32  
Operator : YP\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
FID\_G  
ClientSampleId :  
I.BLK

Integration File: autoint1.e  
Quant Time: Jun 11 01:36:32 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Quant Title :  
QLast Update : Thu May 22 06:20:25 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 14.975 | 1885133  | 15.381 ug/ml |
| Target Compounds              |        |          |              |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

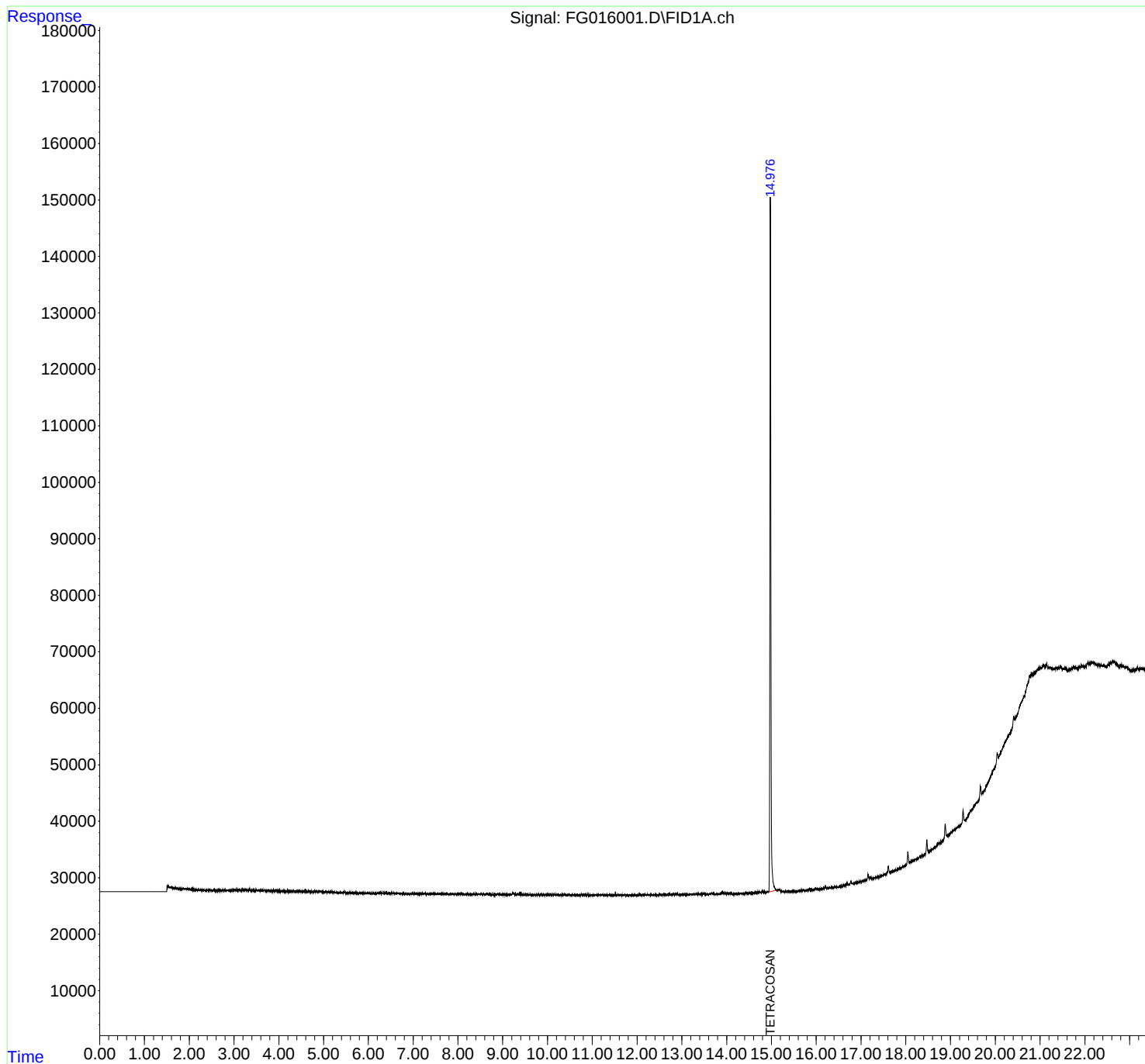
(m)=manual int.

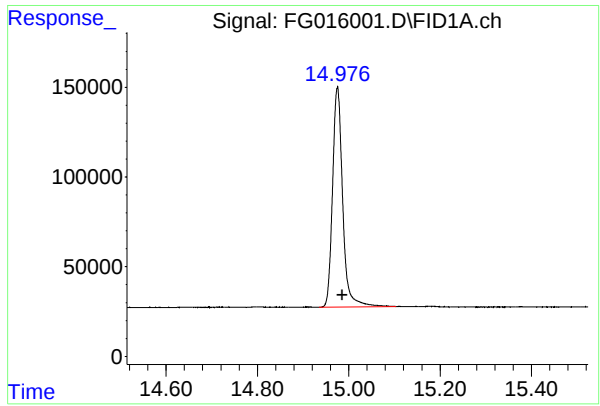
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016001.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 10:32  
Operator : YP\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
FID\_G  
ClientSampleId :  
I.BLK

Integration File: autoint1.e  
Quant Time: Jun 11 01:36:32 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Quant Title :  
QLast Update : Thu May 22 06:20:25 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.975 min  
Delta R.T.: -0.011 min  
Response: 1885133  
Conc: 15.38 ug/ml

Instrument :  
FID\_G  
ClientSampleId :  
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016001.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 10:32  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Title :

Signal : FID1A.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 14.975      | 14.935       | 15.103     | BB       | 122040         | 1885133      | 100.00%        | 100.000%      |
| Sum of corrected areas: |             |              |            |          |                | 1885133      |                |               |

FG052225.M Wed Jun 11 01:51:58 2025

## Report of Analysis

|                    |                                  |                    |          |
|--------------------|----------------------------------|--------------------|----------|
| Client:            | Sciacca General Contractors, LLC | Date Collected:    | 06/10/25 |
| Project:           | 98 Morse Ave Nutley              | Date Received:     | 06/10/25 |
| Client Sample ID:  | PIBLK-FG016009.D                 | SDG No.:           | Q2147    |
| Lab Sample ID:     | I.BLK-FG016009.D                 | Matrix:            | Water    |
| Analytical Method: | 8015D TPH                        | % Solid:           | 0        |
| Sample Wt/Vol:     | 1000 Units: mL                   | Decanted:          |          |
| Soil Aliquot Vol:  | uL                               | Final Vol:         | 1 mL     |
| Extraction Type:   |                                  | Test:              | TPH GC   |
| GPC Factor :       | PH :                             | Injection Volume : |          |
| Prep Method :      | SW3510                           |                    |          |

|                   |           |           |               |               |
|-------------------|-----------|-----------|---------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
| FG016009.D        | 1         |           | 06/10/25      | FG061025      |

| CAS Number        | Parameter              | Conc. | Qualifier | MDL      | LOQ / CRQL | Units   |
|-------------------|------------------------|-------|-----------|----------|------------|---------|
| <b>TARGETS</b>    |                        |       |           |          |            |         |
| PHC               | Petroleum Hydrocarbons | 12.0  | U         | 12.0     | 85.0       | ug/L    |
| <b>SURROGATES</b> |                        |       |           |          |            |         |
| 16416-32-3        | TETRACOSANE-d50        | 15.7  |           | 29 - 130 | 78%        | SPK: 20 |

### Comments:

U = Not Detected  
 LOQ = Limit of Quantitation  
 MDL = Method Detection Limit  
 LOD = Limit of Detection  
 E = Value Exceeds Calibration Range  
 P = Indicates >25% difference for detected concentrations between the two GC columns  
 Q = indicates LCS control criteria did not meet requirements  
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value  
 B = Analyte Found in Associated Method Blank  
 N = Presumptive Evidence of a Compound  
 \* = Values outside of QC limits  
 D = Dilution  
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.  
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016009.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 14:37  
Operator : YP\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
FID\_G  
ClientSampleId :  
I.BLK

Integration File: autoint1.e  
Quant Time: Jun 11 01:39:25 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Quant Title :  
QLast Update : Thu May 22 06:20:25 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 14.973 | 1920551  | 15.670 ug/ml |
| Target Compounds              |        |          |              |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

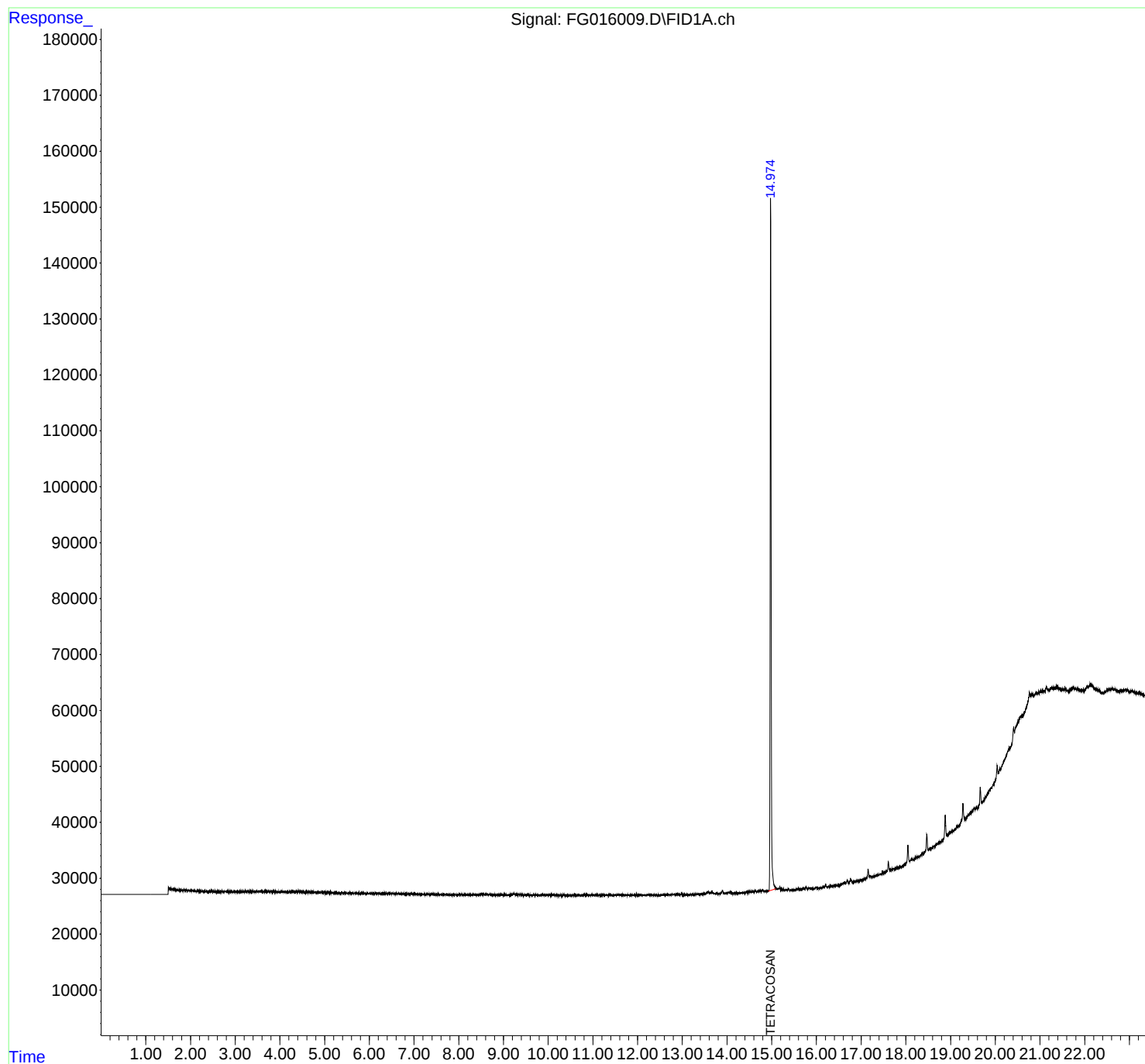
(m)=manual int.

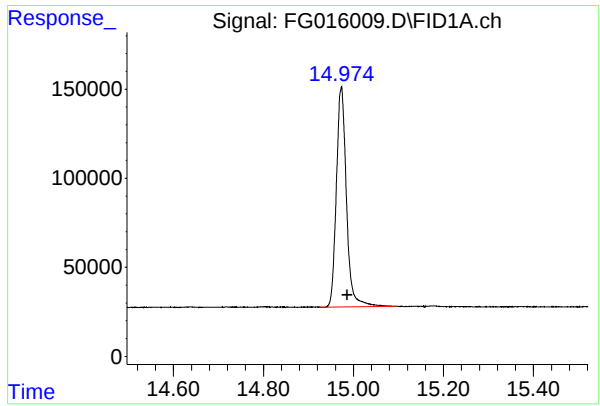
Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016009.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 14:37  
Operator : YP\AJ  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
FID\_G  
ClientSampleId :  
I.BLK

Integration File: autoint1.e  
Quant Time: Jun 11 01:39:25 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Quant Title :  
QLast Update : Thu May 22 06:20:25 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um





#9 TETRACOSANE-d50 (SURROGATE)

R.T.: 14.973 min  
Delta R.T.: -0.013 min  
Response: 1920551  
Conc: 15.67 ug/ml

Instrument :  
FID\_G  
ClientSampleId :  
I.BLK

rteres

Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016009.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 14:37  
Sample : I.BLK  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Title :

Signal : FID1A.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 14.973      | 14.924       | 15.095     | BB       | 123110         | 1920551      | 100.00%        | 100.000%      |
| Sum of corrected areas: |             |              |            |          |                | 1920551      |                |               |

FG052225.M Wed Jun 11 01:54:56 2025

## Report of Analysis

|                    |                                  |          |                    |        |           |
|--------------------|----------------------------------|----------|--------------------|--------|-----------|
| Client:            | Sciacca General Contractors, LLC |          | Date Collected:    |        |           |
| Project:           | 98 Morse Ave Nutley              |          | Date Received:     |        |           |
| Client Sample ID:  | PB168365BS                       |          | SDG No.:           | Q2147  |           |
| Lab Sample ID:     | PB168365BS                       |          | Matrix:            | SOIL   |           |
| Analytical Method: | 8015D TPH                        |          | % Solid:           | 100    | Decanted: |
| Sample Wt/Vol:     | 30.02                            | Units: g | Final Vol:         | 1      | mL        |
| Soil Aliquot Vol:  |                                  | uL       | Test:              | TPH GC |           |
| Extraction Type:   |                                  |          | Injection Volume : |        |           |
| GPC Factor :       |                                  | PH :     |                    |        |           |
| Prep Method :      | SW3541                           |          |                    |        |           |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| FG016005.D        | 1         | 06/09/25 10:35 | 06/10/25 12:39 | PB168365      |

| CAS Number        | Parameter              | Conc. | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-------------------|------------------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                        |       |           |          |            |                   |
| PHC               | Petroleum Hydrocarbons | 10800 |           | 384      | 2830       | ug/kg             |
| <b>SURROGATES</b> |                        |       |           |          |            |                   |
| 16416-32-3        | TETRACOSANE-d50        | 14.7  |           | 37 - 130 | 73%        | SPK: 20           |

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
 Data File : FG016005.D  
 Signal(s) : FID1A.ch  
 Acq On : 10 Jun 2025 12:39  
 Operator : YP\AJ  
 Sample : PB168365BS  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 FID\_G  
 ClientSampleId :  
 PB168365BS

Integration File: autoint1.e  
 Quant Time: Jun 11 01:37:47 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
 Quant Title :  
 QLast Update : Thu May 22 06:20:25 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal Phase : Rxi-1ms  
 Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 14.974 | 1797280  | 14.664 ug/ml |
| Target Compounds              |        |          |              |
| 1) N-OCTANE                   | 1.951  | 2069361  | 17.599 ug/ml |
| 2) N-DECANE                   | 4.476  | 2535622  | 21.580 ug/ml |
| 3) N-DODECANE                 | 6.658  | 2721600  | 22.424 ug/ml |
| 4) N-TETRADECANE              | 8.494  | 2771530  | 21.705 ug/ml |
| 5) N-HEXADECANE               | 10.108 | 2923748  | 21.945 ug/ml |
| 6) N-OCTADECANE               | 11.556 | 3081859  | 22.331 ug/ml |
| 7) N-EICOSANE                 | 12.871 | 3044005  | 21.546 ug/ml |
| 8) N-DOCOSANE                 | 14.073 | 3000749  | 21.845 ug/ml |
| 10) N-TETRACOSANE             | 15.178 | 2966276  | 21.578 ug/ml |
| 11) N-HEXACOSANE              | 16.203 | 2888326  | 21.258 ug/ml |
| 12) N-OCTACOSANE              | 17.154 | 2830569  | 20.994 ug/ml |
| 13) N-TRIACONTANE             | 18.043 | 2743711  | 20.108 ug/ml |
| 14) N-DOTRIACONTANE           | 18.877 | 2337909  | 17.456 ug/ml |
| 15) N-TETRATRIACONTANE        | 19.662 | 1514696  | 12.491 ug/ml |
| 16) N-HEXATRIACONTANE         | 20.403 | 1064190  | 9.966 ug/ml  |
| 17) N-OCTATRIACONTANE         | 21.139 | 954536   | 9.946 ug/ml  |
| 18) N-TETRACONTANE            | 22.048 | 951696   | 10.821 ug/ml |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

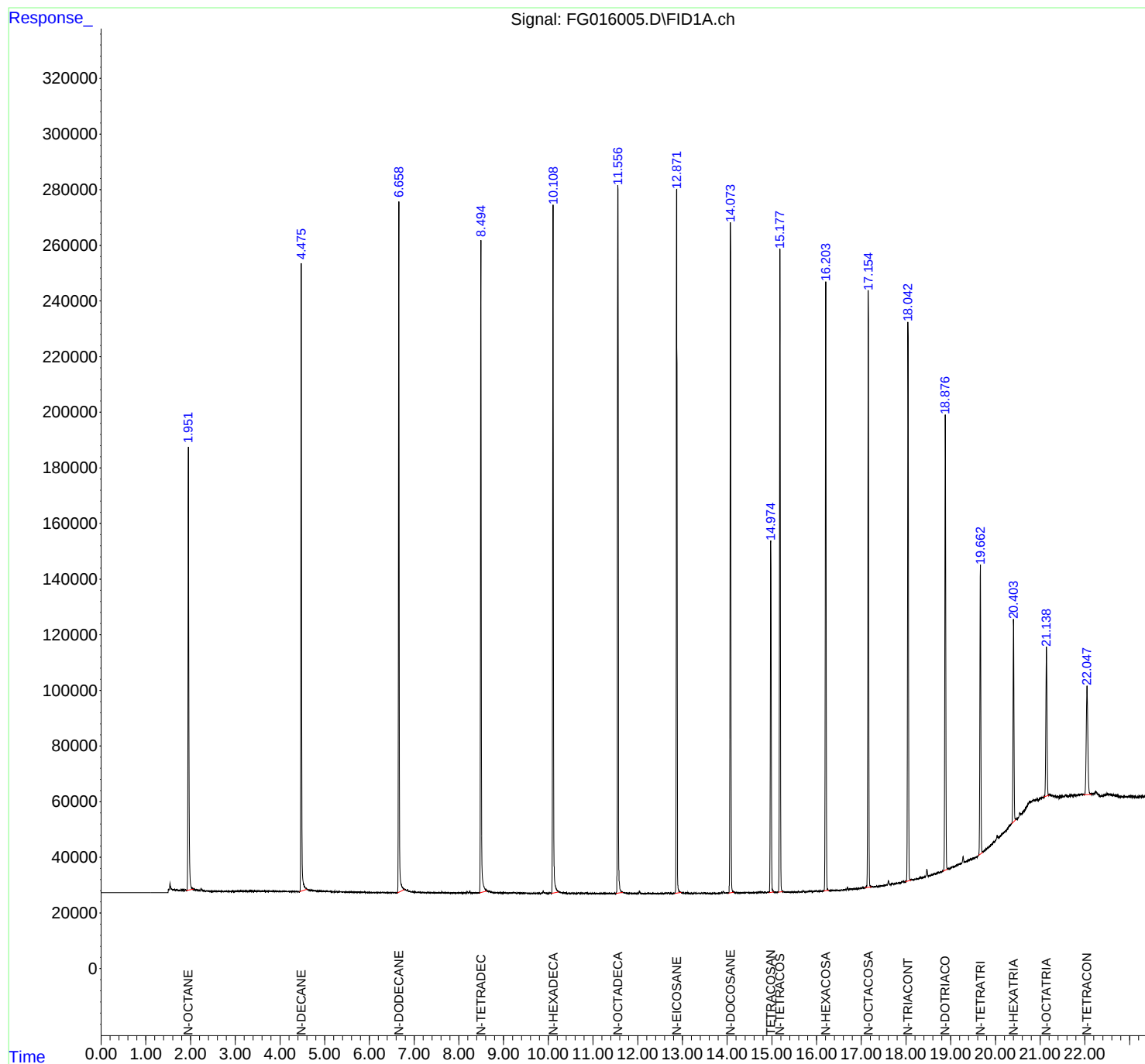
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016005.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 12:39  
Operator : YP\AJ  
Sample : PB168365BS  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
FID\_G  
ClientSampleId :  
PB168365BS

Integration File: autoint1.e  
Quant Time: Jun 11 01:37:47 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Quant Title :  
QLast Update : Thu May 22 06:20:25 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um



rteres

# Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
 Data File : FG016005.D  
 Signal(s) : FID1A.ch  
 Acq On : 10 Jun 2025 12:39  
 Sample : PB168365BS  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Integration File: autoint1.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
 Title :

Signal : FID1A.ch

| peak<br>#               | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-------------------------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1                       | 1.951       | 1.910        | 2.060      | BB       | 159101         | 2069361      | 67.15%         | 4.904%        |
| 2                       | 4.476       | 4.438        | 4.605      | BB       | 225481         | 2535622      | 82.28%         | 6.009%        |
| 3                       | 6.658       | 6.627        | 6.787      | BB       | 247797         | 2721600      | 88.31%         | 6.450%        |
| 4                       | 8.494       | 8.458        | 8.630      | BB       | 233479         | 2771530      | 89.93%         | 6.568%        |
| 5                       | 10.108      | 10.067       | 10.235     | BB       | 246942         | 2923748      | 94.87%         | 6.929%        |
| 6                       | 11.556      | 11.509       | 11.658     | BB       | 253980         | 3081859      | 100.00%        | 7.303%        |
| 7                       | 12.871      | 12.830       | 12.965     | BB       | 253006         | 3044005      | 98.77%         | 7.214%        |
| 8                       | 14.073      | 14.031       | 14.149     | BB       | 239411         | 3000749      | 97.37%         | 7.111%        |
| 9                       | 14.974      | 14.933       | 15.044     | BB       | 125255         | 1797280      | 58.32%         | 4.259%        |
| 10                      | 15.178      | 15.138       | 15.243     | BB       | 229932         | 2966276      | 96.25%         | 7.029%        |
| 11                      | 16.203      | 16.153       | 16.276     | BB       | 217599         | 2888326      | 93.72%         | 6.845%        |
| 12                      | 17.154      | 17.079       | 17.228     | BB       | 213242         | 2830569      | 91.85%         | 6.708%        |
| 13                      | 18.043      | 17.986       | 18.114     | BB       | 200655         | 2743711      | 89.03%         | 6.502%        |
| 14                      | 18.877      | 18.819       | 18.927     | BB       | 162371         | 2337909      | 75.86%         | 5.540%        |
| 15                      | 19.662      | 19.620       | 19.718     | BV       | 103844         | 1514696      | 49.15%         | 3.590%        |
| 16                      | 20.403      | 20.360       | 20.444     | BV       | 72591          | 1064190      | 34.53%         | 2.522%        |
| 17                      | 21.139      | 21.080       | 21.203     | BB       | 53587          | 954536       | 30.97%         | 2.262%        |
| 18                      | 22.048      | 21.972       | 22.152     | BB       | 38976          | 951696       | 30.88%         | 2.255%        |
| Sum of corrected areas: |             |              |            |          |                |              | 42197663       |               |

FG052225.M Wed Jun 11 01:54:23 2025

## Report of Analysis

|                    |                                  |                    |          |
|--------------------|----------------------------------|--------------------|----------|
| Client:            | Sciacca General Contractors, LLC | Date Collected:    | 05/27/25 |
| Project:           | 98 Morse Ave Nutley              | Date Received:     | 05/28/25 |
| Client Sample ID:  | WASTEMS                          | SDG No.:           | Q2147    |
| Lab Sample ID:     | Q2147-01MS                       | Matrix:            | SOIL     |
| Analytical Method: | 8015D TPH                        | % Solid:           | 81.8     |
| Sample Wt/Vol:     | 30.03                            | Units:             | g        |
| Soil Aliquot Vol:  |                                  |                    | uL       |
| Extraction Type:   |                                  | Test:              | TPH GC   |
| GPC Factor :       |                                  | Injection Volume : |          |
| Prep Method :      | SW3541                           |                    |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| FG016007.D        | 1         | 06/09/25 10:35 | 06/10/25 13:38 | PB168365      |

| CAS Number        | Parameter              | Conc. | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-------------------|------------------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                        |       |           |          |            |                   |
| PHC               | Petroleum Hydrocarbons | 18500 |           | 469      | 3460       | ug/kg             |
| <b>SURROGATES</b> |                        |       |           |          |            |                   |
| 16416-32-3        | TETRACOSANE-d50        | 9.52  |           | 37 - 130 | 48%        | SPK: 20           |

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
 Data File : FG016007.D  
 Signal(s) : FID1A.ch  
 Acq On : 10 Jun 2025 13:38  
 Operator : YP\AJ  
 Sample : Q2147-01MS  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 FID\_G  
 ClientSampleId :  
 WASTEMS

Integration File: autoint1.e  
 Quant Time: Jun 11 01:38:41 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
 Quant Title :  
 QLast Update : Thu May 22 06:20:25 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal Phase : Rxi-1ms  
 Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 14.972 | 1166267  | 9.516 ug/ml  |
| Target Compounds              |        |          |              |
| 1) N-OCTANE                   | 1.951  | 1946210  | 16.552 ug/ml |
| 2) N-DECANE                   | 4.475  | 2324647  | 19.784 ug/ml |
| 3) N-DODECANE                 | 6.658  | 2608897  | 21.495 ug/ml |
| 4) N-TETRADECANE              | 8.494  | 2776100  | 21.741 ug/ml |
| 5) N-HEXADECANE               | 10.108 | 3065726  | 23.011 ug/ml |
| 6) N-OCTADECANE               | 11.555 | 3189702  | 23.113 ug/ml |
| 7) N-EICOSANE                 | 12.869 | 3161128  | 22.376 ug/ml |
| 8) N-DOCOSANE                 | 14.072 | 3116614  | 22.688 ug/ml |
| 10) N-TETRACOSANE             | 15.178 | 3208600  | 23.340 ug/ml |
| 11) N-HEXACOSANE              | 16.202 | 3021431  | 22.238 ug/ml |
| 12) N-OCTACOSANE              | 17.155 | 3046350  | 22.595 ug/ml |
| 13) N-TRIACONTANE             | 18.044 | 2952999  | 21.642 ug/ml |
| 14) N-DOTRIACONTANE           | 18.878 | 2523191  | 18.839 ug/ml |
| 15) N-TETRATRIACONTANE        | 19.662 | 1616466  | 13.330 ug/ml |
| 16) N-HEXATRIACONTANE         | 20.404 | 1135005  | 10.629 ug/ml |
| 17) N-OCTATRIACONTANE         | 21.140 | 1010725  | 10.532 ug/ml |
| 18) N-TETRACONTANE            | 22.048 | 1022168  | 11.622 ug/ml |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

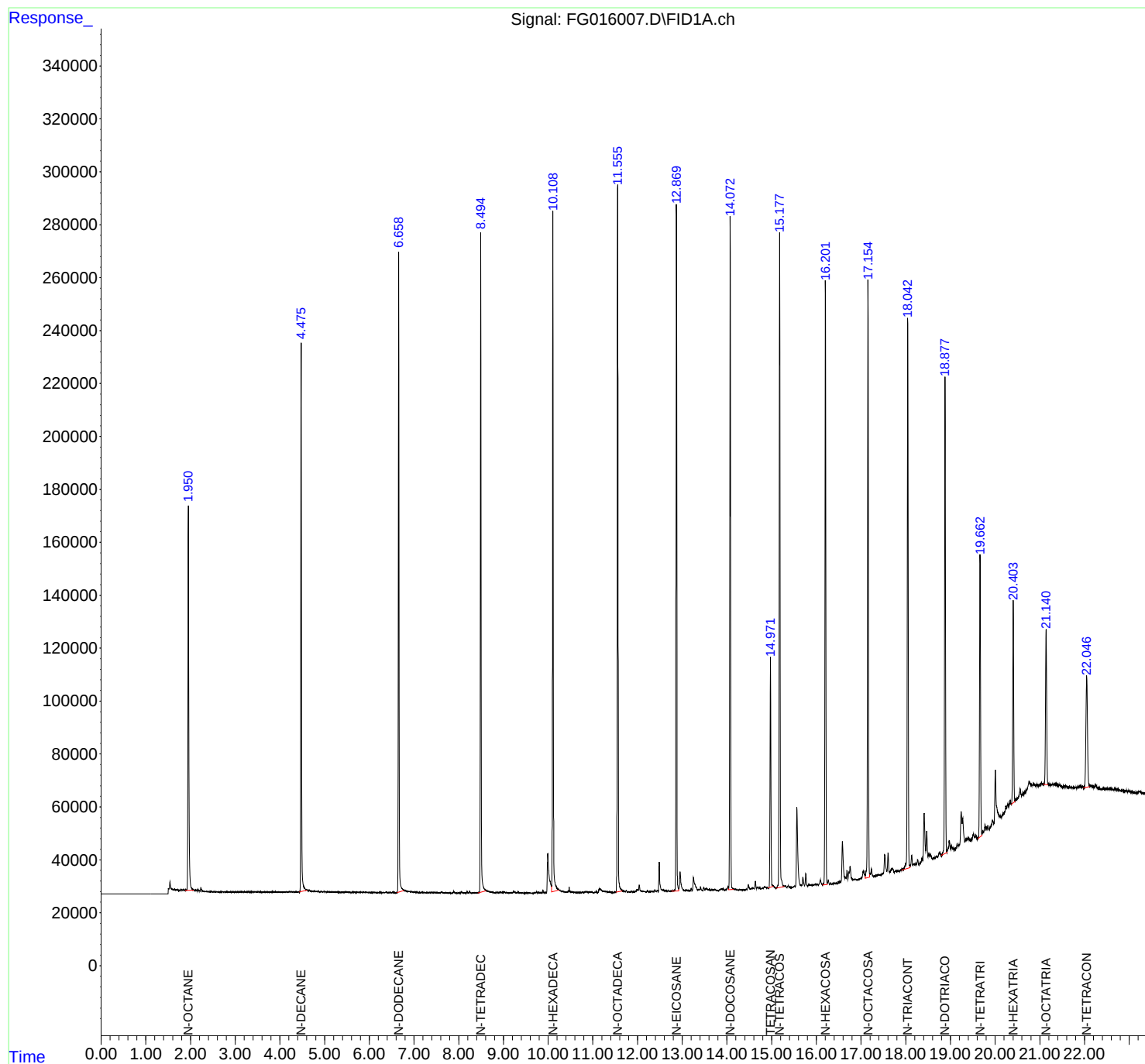
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016007.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 13:38  
Operator : YP\AJ  
Sample : Q2147-01MS  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Instrument :  
FID\_G  
ClientSampleId :  
WASTEMS

Integration File: autoint1.e  
Quant Time: Jun 11 01:38:41 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Quant Title :  
QLast Update : Thu May 22 06:20:25 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um



rteres

## Area Percent Report

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016007.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 13:38  
Sample : Q2147-01MS  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Title :

Signal : FID1A.ch

| peak<br># | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-----------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1         | 1.951       | 1.906        | 2.073      | BV       | 145189         | 1951848      | 60.03%         | 3.367%        |
| 2         | 2.078       | 2.073        | 2.120      | VV       | 333            | 6680         | 0.21%          | 0.012%        |
| 3         | 2.123       | 2.120        | 2.148      | VV       | 164            | 2350         | 0.07%          | 0.004%        |
| 4         | 2.163       | 2.148        | 2.209      | VV       | 569            | 10894        | 0.34%          | 0.019%        |
| 5         | 2.232       | 2.209        | 2.333      | VV       | 1359           | 25207        | 0.78%          | 0.043%        |
| 6         | 2.336       | 2.333        | 2.361      | VV       | 104            | 1329         | 0.04%          | 0.002%        |
| 7         | 2.370       | 2.361        | 2.380      | VV       | 155            | 993          | 0.03%          | 0.002%        |
| 8         | 2.395       | 2.380        | 2.407      | PV       | 196            | 1641         | 0.05%          | 0.003%        |
| 9         | 2.413       | 2.407        | 2.430      | VV       | 154            | 1262         | 0.04%          | 0.002%        |
| 10        | 2.437       | 2.430        | 2.454      | VV       | 138            | 1134         | 0.03%          | 0.002%        |
| 11        | 2.459       | 2.454        | 2.466      | VV       | 148            | 772          | 0.02%          | 0.001%        |
| 12        | 2.469       | 2.466        | 2.476      | VV       | 145            | 616          | 0.02%          | 0.001%        |
| 13        | 2.479       | 2.476        | 2.497      | VV       | 161            | 991          | 0.03%          | 0.002%        |
| 14        | 2.503       | 2.497        | 2.531      | VV       | 94             | 1534         | 0.05%          | 0.003%        |
| 15        | 2.535       | 2.531        | 2.540      | VV       | 121            | 411          | 0.01%          | 0.001%        |
| 16        | 2.543       | 2.540        | 2.565      | PV       | 144            | 1431         | 0.04%          | 0.002%        |
| 17        | 2.573       | 2.565        | 2.591      | VV       | 155            | 1469         | 0.05%          | 0.003%        |
| 18        | 2.599       | 2.591        | 2.614      | VV       | 132            | 1144         | 0.04%          | 0.002%        |
| 19        | 2.629       | 2.614        | 2.644      | VV       | 145            | 1246         | 0.04%          | 0.002%        |
| 20        | 2.648       | 2.644        | 2.663      | VV       | 108            | 662          | 0.02%          | 0.001%        |
| 21        | 2.670       | 2.663        | 2.683      | VV       | 173            | 946          | 0.03%          | 0.002%        |
| 22        | 2.693       | 2.683        | 2.728      | VV       | 135            | 2395         | 0.07%          | 0.004%        |
| 23        | 2.733       | 2.728        | 2.739      | VV       | 109            | 667          | 0.02%          | 0.001%        |
| 24        | 2.747       | 2.739        | 2.757      | VV       | 121            | 941          | 0.03%          | 0.002%        |
| 25        | 2.766       | 2.757        | 2.771      | VV       | 105            | 573          | 0.02%          | 0.001%        |
| 26        | 2.785       | 2.771        | 2.803      | VV       | 181            | 1912         | 0.06%          | 0.003%        |
| 27        | 2.807       | 2.803        | 2.813      | VV       | 126            | 493          | 0.02%          | 0.001%        |
| 28        | 2.830       | 2.813        | 2.842      | VV       | 156            | 1385         | 0.04%          | 0.002%        |
| 29        | 2.846       | 2.842        | 2.867      | VV       | 117            | 975          | 0.03%          | 0.002%        |
| 30        | 2.874       | 2.867        | 2.878      | VV       | 113            | 445          | 0.01%          | 0.001%        |
| 31        | 2.886       | 2.878        | 2.893      | VV       | 127            | 585          | 0.02%          | 0.001%        |
| 32        | 2.897       | 2.893        | 2.911      | VV       | 147            | 819          | 0.03%          | 0.001%        |
| 33        | 2.924       | 2.911        | 2.928      | VV       | 130            | 704          | 0.02%          | 0.001%        |
| 34        | 2.945       | 2.928        | 2.965      | VV       | 144            | 1674         | 0.05%          | 0.003%        |
| 35        | 2.967       | 2.965        | 2.976      | VV       | 108            | 324          | 0.01%          | 0.001%        |
| 36        | 2.979       | 2.976        | 2.984      | VV       | 113            | 316          | 0.01%          | 0.001%        |

|    |       |       |       |    | rters |      |       |        |
|----|-------|-------|-------|----|-------|------|-------|--------|
| 37 | 3.011 | 2.984 | 3.016 | VV | 210   | 2090 | 0.06% | 0.004% |
| 38 | 3.019 | 3.016 | 3.037 | VV | 150   | 1105 | 0.03% | 0.002% |
| 39 | 3.043 | 3.037 | 3.055 | VV | 152   | 1146 | 0.04% | 0.002% |
| 40 | 3.060 | 3.055 | 3.067 | VV | 146   | 770  | 0.02% | 0.001% |
| 41 | 3.096 | 3.067 | 3.101 | VV | 164   | 2074 | 0.06% | 0.004% |
| 42 | 3.106 | 3.101 | 3.120 | VV | 196   | 1207 | 0.04% | 0.002% |
| 43 | 3.124 | 3.120 | 3.129 | VV | 124   | 613  | 0.02% | 0.001% |
| 44 | 3.145 | 3.129 | 3.151 | VV | 193   | 1888 | 0.06% | 0.003% |
| 45 | 3.153 | 3.151 | 3.162 | VV | 164   | 951  | 0.03% | 0.002% |
| 46 | 3.167 | 3.162 | 3.191 | VV | 165   | 2090 | 0.06% | 0.004% |
| 47 | 3.211 | 3.191 | 3.227 | VV | 245   | 3564 | 0.11% | 0.006% |
| 48 | 3.232 | 3.227 | 3.251 | VV | 193   | 2137 | 0.07% | 0.004% |
| 49 | 3.254 | 3.251 | 3.259 | VV | 138   | 649  | 0.02% | 0.001% |
| 50 | 3.262 | 3.259 | 3.266 | VV | 160   | 550  | 0.02% | 0.001% |
| 51 | 3.275 | 3.266 | 3.278 | VV | 171   | 927  | 0.03% | 0.002% |
| 52 | 3.282 | 3.278 | 3.287 | VV | 216   | 683  | 0.02% | 0.001% |
| 53 | 3.292 | 3.287 | 3.298 | VV | 140   | 908  | 0.03% | 0.002% |
| 54 | 3.320 | 3.298 | 3.325 | VV | 179   | 1962 | 0.06% | 0.003% |
| 55 | 3.329 | 3.325 | 3.335 | VV | 124   | 666  | 0.02% | 0.001% |
| 56 | 3.342 | 3.335 | 3.398 | VV | 169   | 4923 | 0.15% | 0.008% |
| 57 | 3.406 | 3.398 | 3.413 | VV | 222   | 1309 | 0.04% | 0.002% |
| 58 | 3.425 | 3.413 | 3.440 | VV | 188   | 2404 | 0.07% | 0.004% |
| 59 | 3.450 | 3.440 | 3.473 | VV | 189   | 2894 | 0.09% | 0.005% |
| 60 | 3.482 | 3.473 | 3.488 | VV | 191   | 1331 | 0.04% | 0.002% |
| 61 | 3.498 | 3.488 | 3.514 | VV | 168   | 1886 | 0.06% | 0.003% |
| 62 | 3.532 | 3.514 | 3.544 | VV | 185   | 2473 | 0.08% | 0.004% |
| 63 | 3.563 | 3.544 | 3.581 | VV | 169   | 2908 | 0.09% | 0.005% |
| 64 | 3.586 | 3.581 | 3.603 | VV | 162   | 1624 | 0.05% | 0.003% |
| 65 | 3.611 | 3.603 | 3.618 | VV | 187   | 1294 | 0.04% | 0.002% |
| 66 | 3.624 | 3.618 | 3.637 | VV | 194   | 1499 | 0.05% | 0.003% |
| 67 | 3.642 | 3.637 | 3.647 | VV | 148   | 722  | 0.02% | 0.001% |
| 68 | 3.650 | 3.647 | 3.654 | VV | 167   | 646  | 0.02% | 0.001% |
| 69 | 3.658 | 3.654 | 3.667 | VV | 214   | 1138 | 0.04% | 0.002% |
| 70 | 3.671 | 3.667 | 3.680 | VV | 214   | 1244 | 0.04% | 0.002% |
| 71 | 3.685 | 3.680 | 3.689 | VV | 203   | 778  | 0.02% | 0.001% |
| 72 | 3.703 | 3.689 | 3.719 | VV | 205   | 2247 | 0.07% | 0.004% |
| 73 | 3.729 | 3.719 | 3.739 | VV | 170   | 1672 | 0.05% | 0.003% |
| 74 | 3.750 | 3.739 | 3.762 | VV | 181   | 1834 | 0.06% | 0.003% |
| 75 | 3.794 | 3.762 | 3.803 | VV | 185   | 3169 | 0.10% | 0.005% |
| 76 | 3.821 | 3.803 | 3.835 | VV | 205   | 2683 | 0.08% | 0.005% |
| 77 | 3.841 | 3.835 | 3.866 | VV | 237   | 2853 | 0.09% | 0.005% |
| 78 | 3.888 | 3.866 | 3.895 | VV | 204   | 2445 | 0.08% | 0.004% |
| 79 | 3.897 | 3.895 | 3.901 | VV | 196   | 459  | 0.01% | 0.001% |
| 80 | 3.907 | 3.901 | 3.919 | VV | 168   | 1592 | 0.05% | 0.003% |
| 81 | 3.922 | 3.919 | 3.935 | VV | 167   | 1472 | 0.05% | 0.003% |
| 82 | 3.937 | 3.935 | 3.941 | VV | 182   | 430  | 0.01% | 0.001% |
| 83 | 3.951 | 3.941 | 3.962 | VV | 174   | 1815 | 0.06% | 0.003% |
| 84 | 3.969 | 3.962 | 4.003 | VV | 187   | 3439 | 0.11% | 0.006% |
| 85 | 4.013 | 4.003 | 4.020 | VV | 223   | 1473 | 0.05% | 0.003% |
| 86 | 4.054 | 4.020 | 4.067 | VV | 213   | 3955 | 0.12% | 0.007% |
| 87 | 4.083 | 4.067 | 4.091 | VV | 181   | 2016 | 0.06% | 0.003% |
| 88 | 4.099 | 4.091 | 4.106 | VV | 159   | 1303 | 0.04% | 0.002% |
| 89 | 4.112 | 4.106 | 4.117 | VV | 208   | 1205 | 0.04% | 0.002% |

|     |       |       |       |    |        |         |        |        |
|-----|-------|-------|-------|----|--------|---------|--------|--------|
|     |       |       |       |    | rteres |         |        |        |
| 90  | 4.122 | 4.117 | 4.133 | VV | 241    | 1755    | 0.05%  | 0.003% |
| 91  | 4.146 | 4.133 | 4.177 | VV | 206    | 4523    | 0.14%  | 0.008% |
| 92  | 4.186 | 4.177 | 4.209 | VV | 241    | 3741    | 0.12%  | 0.006% |
| 93  | 4.229 | 4.209 | 4.237 | VV | 276    | 3902    | 0.12%  | 0.007% |
| 94  | 4.242 | 4.237 | 4.254 | VV | 315    | 2386    | 0.07%  | 0.004% |
| 95  | 4.279 | 4.254 | 4.311 | VV | 279    | 7790    | 0.24%  | 0.013% |
| 96  | 4.318 | 4.311 | 4.328 | VV | 245    | 2336    | 0.07%  | 0.004% |
| 97  | 4.338 | 4.328 | 4.387 | VV | 264    | 7669    | 0.24%  | 0.013% |
| 98  | 4.419 | 4.387 | 4.440 | VV | 292    | 6619    | 0.20%  | 0.011% |
| 99  | 4.475 | 4.440 | 4.639 | VV | 207101 | 2394424 | 73.65% | 4.131% |
| 100 | 4.651 | 4.639 | 4.745 | VV | 832    | 37348   | 1.15%  | 0.064% |
| 101 | 4.760 | 4.745 | 4.776 | VV | 490    | 8788    | 0.27%  | 0.015% |
| 102 | 4.788 | 4.776 | 4.905 | VV | 496    | 28720   | 0.88%  | 0.050% |
| 103 | 4.913 | 4.905 | 4.946 | VV | 399    | 8166    | 0.25%  | 0.014% |
| 104 | 4.969 | 4.946 | 5.010 | VV | 348    | 12060   | 0.37%  | 0.021% |
| 105 | 5.017 | 5.010 | 5.039 | VV | 346    | 4650    | 0.14%  | 0.008% |
| 106 | 5.057 | 5.039 | 5.069 | VV | 328    | 4905    | 0.15%  | 0.008% |
| 107 | 5.078 | 5.069 | 5.105 | VV | 320    | 5935    | 0.18%  | 0.010% |
| 108 | 5.115 | 5.105 | 5.147 | VV | 307    | 6731    | 0.21%  | 0.012% |
| 109 | 5.153 | 5.147 | 5.177 | VV | 307    | 4508    | 0.14%  | 0.008% |
| 110 | 5.185 | 5.177 | 5.214 | VV | 307    | 5069    | 0.16%  | 0.009% |
| 111 | 5.237 | 5.214 | 5.256 | VV | 295    | 5745    | 0.18%  | 0.010% |
| 112 | 5.263 | 5.256 | 5.289 | VV | 277    | 4179    | 0.13%  | 0.007% |
| 113 | 5.314 | 5.289 | 5.330 | VV | 267    | 5334    | 0.16%  | 0.009% |
| 114 | 5.333 | 5.330 | 5.347 | VV | 276    | 1999    | 0.06%  | 0.003% |
| 115 | 5.364 | 5.347 | 5.387 | VV | 249    | 4289    | 0.13%  | 0.007% |
| 116 | 5.394 | 5.387 | 5.424 | VV | 180    | 3531    | 0.11%  | 0.006% |
| 117 | 5.466 | 5.424 | 5.476 | VV | 287    | 6623    | 0.20%  | 0.011% |
| 118 | 5.484 | 5.476 | 5.493 | VV | 258    | 2303    | 0.07%  | 0.004% |
| 119 | 5.502 | 5.493 | 5.517 | VV | 275    | 2971    | 0.09%  | 0.005% |
| 120 | 5.521 | 5.517 | 5.535 | VV | 230    | 1931    | 0.06%  | 0.003% |
| 121 | 5.556 | 5.535 | 5.580 | VV | 223    | 4725    | 0.15%  | 0.008% |
| 122 | 5.586 | 5.580 | 5.599 | VV | 179    | 1586    | 0.05%  | 0.003% |
| 123 | 5.624 | 5.599 | 5.685 | VV | 291    | 9642    | 0.30%  | 0.017% |
| 124 | 5.722 | 5.685 | 5.791 | VV | 254    | 10857   | 0.33%  | 0.019% |
| 125 | 5.817 | 5.791 | 5.836 | VV | 226    | 4344    | 0.13%  | 0.007% |
| 126 | 5.843 | 5.836 | 5.850 | VV | 179    | 1391    | 0.04%  | 0.002% |
| 127 | 5.884 | 5.850 | 5.895 | VV | 201    | 4904    | 0.15%  | 0.008% |
| 128 | 5.911 | 5.895 | 5.967 | VV | 254    | 7892    | 0.24%  | 0.014% |
| 129 | 5.975 | 5.967 | 6.004 | VV | 179    | 3376    | 0.10%  | 0.006% |
| 130 | 6.008 | 6.004 | 6.017 | VV | 134    | 1102    | 0.03%  | 0.002% |
| 131 | 6.029 | 6.017 | 6.050 | VV | 146    | 2664    | 0.08%  | 0.005% |
| 132 | 6.099 | 6.050 | 6.155 | VV | 190    | 7917    | 0.24%  | 0.014% |
| 133 | 6.162 | 6.155 | 6.176 | VV | 179    | 1322    | 0.04%  | 0.002% |
| 134 | 6.195 | 6.176 | 6.215 | VV | 179    | 3231    | 0.10%  | 0.006% |
| 135 | 6.227 | 6.215 | 6.245 | VV | 191    | 2986    | 0.09%  | 0.005% |
| 136 | 6.251 | 6.245 | 6.289 | VV | 188    | 3848    | 0.12%  | 0.007% |
| 137 | 6.312 | 6.289 | 6.325 | VV | 180    | 2682    | 0.08%  | 0.005% |
| 138 | 6.368 | 6.325 | 6.412 | VV | 276    | 8306    | 0.26%  | 0.014% |
| 139 | 6.430 | 6.412 | 6.443 | VV | 200    | 2521    | 0.08%  | 0.004% |
| 140 | 6.454 | 6.443 | 6.463 | VV | 148    | 1622    | 0.05%  | 0.003% |
| 141 | 6.475 | 6.463 | 6.502 | VV | 141    | 3361    | 0.10%  | 0.006% |

|     |        |        |        |    | rteres |         |        |        |
|-----|--------|--------|--------|----|--------|---------|--------|--------|
| 142 | 6.541  | 6.502  | 6.582  | VV | 249    | 8142    | 0.25%  | 0.014% |
| 143 | 6.594  | 6.582  | 6.620  | VV | 157    | 2710    | 0.08%  | 0.005% |
| 144 | 6.658  | 6.620  | 6.933  | VV | 242620 | 2723693 | 83.77% | 4.699% |
| 145 | 6.943  | 6.933  | 7.055  | VV | 507    | 26710   | 0.82%  | 0.046% |
| 146 | 7.070  | 7.055  | 7.148  | VV | 359    | 14064   | 0.43%  | 0.024% |
| 147 | 7.155  | 7.148  | 7.172  | VV | 250    | 3343    | 0.10%  | 0.006% |
| 148 | 7.193  | 7.172  | 7.210  | VV | 305    | 5632    | 0.17%  | 0.010% |
| 149 | 7.237  | 7.210  | 7.279  | VV | 278    | 10055   | 0.31%  | 0.017% |
| 150 | 7.291  | 7.279  | 7.320  | VV | 280    | 6006    | 0.18%  | 0.010% |
| 151 | 7.344  | 7.320  | 7.362  | VV | 288    | 5866    | 0.18%  | 0.010% |
| 152 | 7.374  | 7.362  | 7.434  | VV | 350    | 11246   | 0.35%  | 0.019% |
| 153 | 7.445  | 7.434  | 7.496  | VV | 329    | 7976    | 0.25%  | 0.014% |
| 154 | 7.508  | 7.496  | 7.524  | VV | 236    | 2927    | 0.09%  | 0.005% |
| 155 | 7.549  | 7.524  | 7.569  | VV | 211    | 4596    | 0.14%  | 0.008% |
| 156 | 7.615  | 7.569  | 7.675  | VV | 526    | 14700   | 0.45%  | 0.025% |
| 157 | 7.682  | 7.675  | 7.692  | VV | 127    | 1142    | 0.04%  | 0.002% |
| 158 | 7.711  | 7.692  | 7.760  | VV | 160    | 4524    | 0.14%  | 0.008% |
| 159 | 7.769  | 7.760  | 7.826  | VV | 99     | 2826    | 0.09%  | 0.005% |
| 160 | 7.892  | 7.826  | 7.977  | PV | 682    | 13918   | 0.43%  | 0.024% |
| 161 | 8.064  | 7.977  | 8.124  | VV | 737    | 15718   | 0.48%  | 0.027% |
| 162 | 8.140  | 8.124  | 8.158  | VV | 178    | 2081    | 0.06%  | 0.004% |
| 163 | 8.186  | 8.158  | 8.217  | VV | 721    | 10811   | 0.33%  | 0.019% |
| 164 | 8.243  | 8.217  | 8.300  | VV | 880    | 13680   | 0.42%  | 0.024% |
| 165 | 8.317  | 8.300  | 8.339  | VV | 162    | 2576    | 0.08%  | 0.004% |
| 166 | 8.347  | 8.339  | 8.366  | VV | 173    | 2029    | 0.06%  | 0.004% |
| 167 | 8.400  | 8.366  | 8.425  | VV | 318    | 6323    | 0.19%  | 0.011% |
| 168 | 8.494  | 8.425  | 8.805  | VV | 249179 | 2901744 | 89.25% | 5.006% |
| 169 | 8.829  | 8.805  | 8.839  | VV | 329    | 5610    | 0.17%  | 0.010% |
| 170 | 8.852  | 8.839  | 8.893  | VV | 407    | 9248    | 0.28%  | 0.016% |
| 171 | 8.928  | 8.893  | 8.974  | VV | 498    | 14832   | 0.46%  | 0.026% |
| 172 | 9.012  | 8.974  | 9.073  | VV | 414    | 18777   | 0.58%  | 0.032% |
| 173 | 9.092  | 9.073  | 9.132  | VV | 244    | 6440    | 0.20%  | 0.011% |
| 174 | 9.159  | 9.132  | 9.172  | VV | 245    | 4918    | 0.15%  | 0.008% |
| 175 | 9.182  | 9.172  | 9.204  | VV | 237    | 4171    | 0.13%  | 0.007% |
| 176 | 9.227  | 9.204  | 9.297  | VV | 710    | 20204   | 0.62%  | 0.035% |
| 177 | 9.328  | 9.297  | 9.360  | VV | 636    | 12127   | 0.37%  | 0.021% |
| 178 | 9.369  | 9.360  | 9.395  | VV | 263    | 3862    | 0.12%  | 0.007% |
| 179 | 9.408  | 9.395  | 9.490  | VV | 188    | 5042    | 0.16%  | 0.009% |
| 180 | 9.517  | 9.490  | 9.543  | VV | 210    | 3731    | 0.11%  | 0.006% |
| 181 | 9.562  | 9.543  | 9.584  | VV | 175    | 2491    | 0.08%  | 0.004% |
| 182 | 9.609  | 9.584  | 9.625  | VV | 153    | 2041    | 0.06%  | 0.004% |
| 183 | 9.628  | 9.625  | 9.656  | VV | 139    | 1142    | 0.04%  | 0.002% |
| 184 | 9.745  | 9.656  | 9.819  | PV | 410    | 21946   | 0.67%  | 0.038% |
| 185 | 9.842  | 9.819  | 9.862  | VV | 292    | 5930    | 0.18%  | 0.010% |
| 186 | 9.885  | 9.862  | 9.915  | VV | 1126   | 15429   | 0.47%  | 0.027% |
| 187 | 9.938  | 9.915  | 9.965  | VV | 521    | 7419    | 0.23%  | 0.013% |
| 188 | 9.993  | 9.965  | 10.077 | VV | 14997  | 429008  | 13.20% | 0.740% |
| 189 | 10.108 | 10.077 | 10.384 | VV | 256789 | 3208399 | 98.68% | 5.535% |
| 190 | 10.390 | 10.384 | 10.412 | VV | 379    | 5768    | 0.18%  | 0.010% |
| 191 | 10.471 | 10.412 | 10.520 | VV | 1379   | 34519   | 1.06%  | 0.060% |
| 192 | 10.536 | 10.520 | 10.564 | VV | 392    | 8231    | 0.25%  | 0.014% |
| 193 | 10.581 | 10.564 | 10.622 | VV | 328    | 8400    | 0.26%  | 0.014% |
| 194 | 10.640 | 10.622 | 10.655 | VV | 249    | 3524    | 0.11%  | 0.006% |

|     |        |        |        |    |        |         |        |        |
|-----|--------|--------|--------|----|--------|---------|--------|--------|
|     |        |        |        |    | rteres |         |        |        |
| 195 | 10.670 | 10.655 | 10.695 | VV | 220    | 3850    | 0.12%  | 0.007% |
| 196 | 10.718 | 10.695 | 10.740 | VV | 202    | 4285    | 0.13%  | 0.007% |
| 197 | 10.748 | 10.740 | 10.757 | VV | 258    | 1889    | 0.06%  | 0.003% |
| 198 | 10.778 | 10.757 | 10.794 | VV | 246    | 4531    | 0.14%  | 0.008% |
| 199 | 10.822 | 10.794 | 10.835 | VV | 496    | 7919    | 0.24%  | 0.014% |
| 200 | 10.850 | 10.835 | 10.904 | VV | 587    | 14199   | 0.44%  | 0.024% |
| 201 | 10.920 | 10.904 | 10.944 | VV | 387    | 7265    | 0.22%  | 0.013% |
| 202 | 10.960 | 10.944 | 11.025 | VV | 321    | 9222    | 0.28%  | 0.016% |
| 203 | 11.072 | 11.025 | 11.108 | PV | 618    | 10298   | 0.32%  | 0.018% |
| 204 | 11.151 | 11.108 | 11.292 | VV | 1446   | 84578   | 2.60%  | 0.146% |
| 205 | 11.304 | 11.292 | 11.345 | VV | 431    | 9663    | 0.30%  | 0.017% |
| 206 | 11.358 | 11.345 | 11.398 | VV | 267    | 6083    | 0.19%  | 0.010% |
| 207 | 11.413 | 11.398 | 11.444 | VV | 208    | 2794    | 0.09%  | 0.005% |
| 208 | 11.454 | 11.444 | 11.467 | PV | 48     | 601     | 0.02%  | 0.001% |
| 209 | 11.489 | 11.467 | 11.509 | VV | 255    | 3478    | 0.11%  | 0.006% |
| 210 | 11.555 | 11.509 | 11.729 | VV | 267561 | 3240038 | 99.66% | 5.590% |
| 211 | 11.748 | 11.729 | 11.781 | VV | 582    | 11769   | 0.36%  | 0.020% |
| 212 | 11.801 | 11.781 | 11.822 | VV | 285    | 4704    | 0.14%  | 0.008% |
| 213 | 11.871 | 11.822 | 11.893 | VV | 405    | 8965    | 0.28%  | 0.015% |
| 214 | 11.900 | 11.893 | 11.922 | VV | 233    | 2047    | 0.06%  | 0.004% |
| 215 | 11.989 | 11.922 | 12.019 | VV | 1034   | 31903   | 0.98%  | 0.055% |
| 216 | 12.038 | 12.019 | 12.198 | VV | 2716   | 60061   | 1.85%  | 0.104% |
| 217 | 12.226 | 12.198 | 12.257 | VV | 544    | 7685    | 0.24%  | 0.013% |
| 218 | 12.277 | 12.257 | 12.304 | VV | 205    | 2818    | 0.09%  | 0.005% |
| 219 | 12.325 | 12.304 | 12.358 | VV | 286    | 5081    | 0.16%  | 0.009% |
| 220 | 12.388 | 12.358 | 12.411 | VV | 815    | 10660   | 0.33%  | 0.018% |
| 221 | 12.439 | 12.411 | 12.462 | VV | 463    | 7877    | 0.24%  | 0.014% |
| 222 | 12.486 | 12.462 | 12.562 | VV | 11079  | 166568  | 5.12%  | 0.287% |
| 223 | 12.576 | 12.562 | 12.625 | VV | 733    | 17793   | 0.55%  | 0.031% |
| 224 | 12.641 | 12.625 | 12.667 | VV | 354    | 7650    | 0.24%  | 0.013% |
| 225 | 12.688 | 12.667 | 12.720 | VV | 371    | 8013    | 0.25%  | 0.014% |
| 226 | 12.728 | 12.720 | 12.737 | VV | 165    | 1386    | 0.04%  | 0.002% |
| 227 | 12.755 | 12.737 | 12.772 | VV | 306    | 4156    | 0.13%  | 0.007% |
| 228 | 12.788 | 12.772 | 12.806 | VV | 351    | 5477    | 0.17%  | 0.009% |
| 229 | 12.869 | 12.806 | 12.920 | VV | 258970 | 3175516 | 97.67% | 5.478% |
| 230 | 12.951 | 12.920 | 13.062 | VV | 7442   | 181497  | 5.58%  | 0.313% |
| 231 | 13.084 | 13.062 | 13.114 | VV | 539    | 11325   | 0.35%  | 0.020% |
| 232 | 13.125 | 13.114 | 13.145 | VV | 307    | 4625    | 0.14%  | 0.008% |
| 233 | 13.152 | 13.145 | 13.176 | VV | 260    | 3599    | 0.11%  | 0.006% |
| 234 | 13.202 | 13.176 | 13.222 | VV | 1178   | 15065   | 0.46%  | 0.026% |
| 235 | 13.250 | 13.222 | 13.350 | VV | 5296   | 162929  | 5.01%  | 0.281% |
| 236 | 13.374 | 13.350 | 13.384 | VV | 587    | 10295   | 0.32%  | 0.018% |
| 237 | 13.408 | 13.384 | 13.459 | VV | 1620   | 29967   | 0.92%  | 0.052% |
| 238 | 13.483 | 13.459 | 13.505 | VV | 1422   | 21463   | 0.66%  | 0.037% |
| 239 | 13.532 | 13.505 | 13.592 | VV | 947    | 35183   | 1.08%  | 0.061% |
| 240 | 13.613 | 13.592 | 13.638 | VV | 661    | 12877   | 0.40%  | 0.022% |
| 241 | 13.673 | 13.638 | 13.704 | VV | 516    | 15569   | 0.48%  | 0.027% |
| 242 | 13.725 | 13.704 | 13.809 | VV | 526    | 15953   | 0.49%  | 0.028% |
| 243 | 13.838 | 13.809 | 13.845 | PV | 292    | 3828    | 0.12%  | 0.007% |
| 244 | 13.876 | 13.845 | 13.885 | VV | 657    | 12145   | 0.37%  | 0.021% |
| 245 | 13.911 | 13.885 | 13.954 | VV | 1026   | 22562   | 0.69%  | 0.039% |
| 246 | 14.024 | 13.954 | 14.037 | VV | 1516   | 34073   | 1.05%  | 0.059% |

|     |        |        |        |    | rteres |         |         |        |
|-----|--------|--------|--------|----|--------|---------|---------|--------|
| 247 | 14.071 | 14.037 | 14.162 | VV | 255456 | 3144272 | 96.71%  | 5.424% |
| 248 | 14.177 | 14.162 | 14.195 | VV | 466    | 7874    | 0.24%   | 0.014% |
| 249 | 14.214 | 14.195 | 14.265 | VV | 477    | 8491    | 0.26%   | 0.015% |
| 250 | 14.287 | 14.265 | 14.317 | VV | 386    | 5458    | 0.17%   | 0.009% |
| 251 | 14.332 | 14.317 | 14.364 | VV | 167    | 2422    | 0.07%   | 0.004% |
| 252 | 14.379 | 14.364 | 14.394 | PV | 99     | 812     | 0.02%   | 0.001% |
| 253 | 14.436 | 14.394 | 14.447 | PV | 335    | 5099    | 0.16%   | 0.009% |
| 254 | 14.477 | 14.447 | 14.533 | VV | 1791   | 42140   | 1.30%   | 0.073% |
| 255 | 14.587 | 14.533 | 14.607 | VV | 646    | 20318   | 0.62%   | 0.035% |
| 256 | 14.635 | 14.607 | 14.659 | VV | 3200   | 46293   | 1.42%   | 0.080% |
| 257 | 14.690 | 14.659 | 14.713 | VV | 755    | 20556   | 0.63%   | 0.035% |
| 258 | 14.733 | 14.713 | 14.766 | VV | 685    | 13601   | 0.42%   | 0.023% |
| 259 | 14.793 | 14.766 | 14.815 | VV | 450    | 9712    | 0.30%   | 0.017% |
| 260 | 14.837 | 14.815 | 14.867 | VV | 927    | 20391   | 0.63%   | 0.035% |
| 261 | 14.876 | 14.867 | 14.899 | VV | 624    | 9905    | 0.30%   | 0.017% |
| 262 | 14.911 | 14.899 | 14.935 | VV | 411    | 6882    | 0.21%   | 0.012% |
| 263 | 14.972 | 14.935 | 15.107 | VV | 87300  | 1222527 | 37.60%  | 2.109% |
| 264 | 15.178 | 15.107 | 15.290 | VV | 247935 | 3251233 | 100.00% | 5.609% |
| 265 | 15.304 | 15.290 | 15.347 | VV | 826    | 17252   | 0.53%   | 0.030% |
| 266 | 15.370 | 15.347 | 15.409 | VV | 779    | 12791   | 0.39%   | 0.022% |
| 267 | 15.423 | 15.409 | 15.452 | PV | 109    | 1590    | 0.05%   | 0.003% |
| 268 | 15.515 | 15.452 | 15.527 | VV | 406    | 8437    | 0.26%   | 0.015% |
| 269 | 15.564 | 15.527 | 15.642 | VV | 30103  | 620812  | 19.09%  | 1.071% |
| 270 | 15.651 | 15.642 | 15.674 | VV | 797    | 12721   | 0.39%   | 0.022% |
| 271 | 15.698 | 15.674 | 15.734 | VV | 3506   | 59873   | 1.84%   | 0.103% |
| 272 | 15.763 | 15.734 | 15.805 | VV | 4743   | 69514   | 2.14%   | 0.120% |
| 273 | 15.831 | 15.805 | 15.862 | VV | 630    | 14245   | 0.44%   | 0.025% |
| 274 | 15.886 | 15.862 | 15.894 | VV | 317    | 5419    | 0.17%   | 0.009% |
| 275 | 15.917 | 15.894 | 15.935 | VV | 335    | 6390    | 0.20%   | 0.011% |
| 276 | 15.960 | 15.935 | 15.970 | VV | 502    | 6920    | 0.21%   | 0.012% |
| 277 | 15.988 | 15.970 | 16.037 | VV | 527    | 16817   | 0.52%   | 0.029% |
| 278 | 16.089 | 16.037 | 16.137 | VV | 1793   | 45664   | 1.40%   | 0.079% |
| 279 | 16.202 | 16.137 | 16.243 | VV | 223771 | 3025778 | 93.07%  | 5.220% |
| 280 | 16.265 | 16.243 | 16.309 | VV | 1721   | 27770   | 0.85%   | 0.048% |
| 281 | 16.321 | 16.309 | 16.354 | VV | 263    | 4166    | 0.13%   | 0.007% |
| 282 | 16.399 | 16.354 | 16.412 | PV | 267    | 5338    | 0.16%   | 0.009% |
| 283 | 16.433 | 16.412 | 16.461 | VV | 223    | 3567    | 0.11%   | 0.006% |
| 284 | 16.493 | 16.461 | 16.519 | PV | 425    | 9250    | 0.28%   | 0.016% |
| 285 | 16.582 | 16.519 | 16.635 | VV | 15476  | 339463  | 10.44%  | 0.586% |
| 286 | 16.647 | 16.635 | 16.665 | VV | 1975   | 30829   | 0.95%   | 0.053% |
| 287 | 16.686 | 16.665 | 16.705 | VV | 4221   | 59559   | 1.83%   | 0.103% |
| 288 | 16.726 | 16.705 | 16.737 | VV | 3550   | 52288   | 1.61%   | 0.090% |
| 289 | 16.755 | 16.737 | 16.825 | VV | 5676   | 116983  | 3.60%   | 0.202% |
| 290 | 16.856 | 16.825 | 16.873 | VV | 486    | 12229   | 0.38%   | 0.021% |
| 291 | 16.882 | 16.873 | 16.915 | VV | 370    | 5508    | 0.17%   | 0.010% |
| 292 | 17.054 | 16.915 | 17.090 | PV | 2612   | 86631   | 2.66%   | 0.149% |
| 293 | 17.155 | 17.090 | 17.214 | VV | 222637 | 3068500 | 94.38%  | 5.294% |
| 294 | 17.231 | 17.214 | 17.319 | VV | 3119   | 55127   | 1.70%   | 0.095% |
| 295 | 17.390 | 17.319 | 17.414 | PV | 422    | 11857   | 0.36%   | 0.020% |
| 296 | 17.530 | 17.414 | 17.580 | VV | 7412   | 179550  | 5.52%   | 0.310% |
| 297 | 17.604 | 17.580 | 17.644 | VV | 7853   | 122852  | 3.78%   | 0.212% |
| 298 | 17.705 | 17.644 | 17.744 | VV | 1665   | 61411   | 1.89%   | 0.106% |
| 299 | 17.775 | 17.744 | 17.795 | VV | 573    | 11912   | 0.37%   | 0.021% |

|     |        |        |        |    |        |         |        |        |
|-----|--------|--------|--------|----|--------|---------|--------|--------|
|     |        |        |        |    | rteres |         |        |        |
| 300 | 17.825 | 17.795 | 17.850 | VV | 349    | 8161    | 0.25%  | 0.014% |
| 301 | 17.897 | 17.850 | 17.909 | PV | 436    | 8442    | 0.26%  | 0.015% |
| 302 | 17.937 | 17.909 | 17.950 | VV | 524    | 9320    | 0.29%  | 0.016% |
| 303 | 18.044 | 17.950 | 18.098 | VV | 205698 | 2958574 | 91.00% | 5.104% |
| 304 | 18.133 | 18.098 | 18.164 | VV | 4388   | 79022   | 2.43%  | 0.136% |
| 305 | 18.178 | 18.164 | 18.191 | VV | 896    | 12687   | 0.39%  | 0.022% |
| 306 | 18.267 | 18.191 | 18.297 | VV | 1972   | 54330   | 1.67%  | 0.094% |
| 307 | 18.361 | 18.297 | 18.378 | PV | 2118   | 42376   | 1.30%  | 0.073% |
| 308 | 18.410 | 18.378 | 18.445 | VV | 18488  | 382102  | 11.75% | 0.659% |
| 309 | 18.468 | 18.445 | 18.494 | VV | 11450  | 197696  | 6.08%  | 0.341% |
| 310 | 18.512 | 18.494 | 18.532 | VV | 2248   | 48217   | 1.48%  | 0.083% |
| 311 | 18.545 | 18.532 | 18.599 | VV | 1992   | 48828   | 1.50%  | 0.084% |
| 312 | 18.611 | 18.599 | 18.629 | VV | 364    | 2955    | 0.09%  | 0.005% |
| 313 | 18.686 | 18.629 | 18.703 | VV | 322    | 6845    | 0.21%  | 0.012% |
| 314 | 18.755 | 18.703 | 18.792 | PV | 1458   | 30693   | 0.94%  | 0.053% |
| 315 | 18.879 | 18.792 | 18.922 | VV | 178873 | 2527295 | 77.73% | 4.360% |
| 316 | 18.977 | 18.922 | 19.005 | VV | 3857   | 90779   | 2.79%  | 0.157% |
| 317 | 19.024 | 19.005 | 19.060 | VV | 1823   | 36938   | 1.14%  | 0.064% |
| 318 | 19.070 | 19.060 | 19.085 | VV | 439    | 3789    | 0.12%  | 0.007% |
| 319 | 19.148 | 19.085 | 19.167 | PV | 1814   | 25350   | 0.78%  | 0.044% |
| 320 | 19.240 | 19.167 | 19.260 | VV | 12975  | 274194  | 8.43%  | 0.473% |
| 321 | 19.274 | 19.260 | 19.327 | VV | 10369  | 223756  | 6.88%  | 0.386% |
| 322 | 19.347 | 19.327 | 19.367 | VV | 2013   | 43256   | 1.33%  | 0.075% |
| 323 | 19.394 | 19.367 | 19.429 | VV | 1870   | 56906   | 1.75%  | 0.098% |
| 324 | 19.440 | 19.429 | 19.454 | VV | 1011   | 12562   | 0.39%  | 0.022% |
| 325 | 19.512 | 19.454 | 19.546 | VV | 2353   | 77366   | 2.38%  | 0.133% |
| 326 | 19.568 | 19.546 | 19.612 | VV | 1684   | 33137   | 1.02%  | 0.057% |
| 327 | 19.662 | 19.612 | 19.705 | PV | 106750 | 1631846 | 50.19% | 2.815% |
| 328 | 19.726 | 19.705 | 19.745 | VV | 2164   | 37389   | 1.15%  | 0.065% |
| 329 | 19.773 | 19.745 | 19.790 | VV | 3625   | 70370   | 2.16%  | 0.121% |
| 330 | 19.805 | 19.790 | 19.819 | VV | 2590   | 39078   | 1.20%  | 0.067% |
| 331 | 19.836 | 19.819 | 19.864 | VV | 3114   | 62225   | 1.91%  | 0.107% |
| 332 | 19.946 | 19.864 | 19.972 | VV | 4072   | 178057  | 5.48%  | 0.307% |
| 333 | 20.004 | 19.972 | 20.136 | VV | 22777  | 787129  | 24.21% | 1.358% |
| 334 | 20.187 | 20.136 | 20.202 | VV | 5113   | 180214  | 5.54%  | 0.311% |
| 335 | 20.239 | 20.202 | 20.258 | VV | 7068   | 201812  | 6.21%  | 0.348% |
| 336 | 20.280 | 20.258 | 20.304 | VV | 7765   | 190608  | 5.86%  | 0.329% |
| 337 | 20.334 | 20.304 | 20.361 | VV | 8402   | 261475  | 8.04%  | 0.451% |
| 338 | 20.404 | 20.361 | 20.440 | VV | 83252  | 1471344 | 45.25% | 2.538% |
| 339 | 20.472 | 20.440 | 20.490 | VV | 8023   | 233782  | 7.19%  | 0.403% |
| 340 | 20.560 | 20.490 | 20.594 | VV | 11141  | 558525  | 17.18% | 0.964% |
| 341 | 20.636 | 20.594 | 20.647 | VV | 9040   | 277980  | 8.55%  | 0.480% |
| 342 | 20.758 | 20.647 | 20.819 | VV | 12469  | 1060837 | 32.63% | 1.830% |
| 343 | 20.864 | 20.819 | 20.909 | VV | 10480  | 546549  | 16.81% | 0.943% |
| 344 | 20.924 | 20.909 | 20.937 | VV | 9742   | 161069  | 4.95%  | 0.278% |
| 345 | 20.943 | 20.937 | 20.967 | VV | 9440   | 162994  | 5.01%  | 0.281% |
| 346 | 21.040 | 20.967 | 21.068 | VV | 9245   | 551874  | 16.97% | 0.952% |
| 347 | 21.085 | 21.068 | 21.097 | VV | 8736   | 148230  | 4.56%  | 0.256% |
| 348 | 21.140 | 21.097 | 21.205 | VV | 65388  | 1524446 | 46.89% | 2.630% |
| 349 | 21.223 | 21.205 | 21.247 | VV | 7442   | 185160  | 5.70%  | 0.319% |
| 350 | 21.254 | 21.247 | 21.261 | VV | 7088   | 59248   | 1.82%  | 0.102% |
| 351 | 21.288 | 21.261 | 21.309 | VV | 6988   | 197371  | 6.07%  | 0.340% |

|     |        |        |        |     |       |        |        |        |
|-----|--------|--------|--------|-----|-------|--------|--------|--------|
|     |        |        |        |     |       | rteres |        |        |
| 352 | 21.316 | 21.309 | 21.327 | VV  | 6715  | 72364  | 2.23%  | 0.125% |
| 353 | 21.342 | 21.327 | 21.427 | VV  | 6739  | 361180 | 11.11% | 0.623% |
| 354 | 21.439 | 21.427 | 21.497 | VV  | 5479  | 209403 | 6.44%  | 0.361% |
| 355 | 21.515 | 21.497 | 21.539 | VV  | 4380  | 102293 | 3.15%  | 0.176% |
| 356 | 21.557 | 21.539 | 21.635 | VV  | 4154  | 211193 | 6.50%  | 0.364% |
| 357 | 21.660 | 21.635 | 21.671 | VV  | 2891  | 61646  | 1.90%  | 0.106% |
| 358 | 21.687 | 21.671 | 21.754 | VV  | 2768  | 114159 | 3.51%  | 0.197% |
| 359 | 21.775 | 21.754 | 21.784 | VV  | 1832  | 31938  | 0.98%  | 0.055% |
| 360 | 21.792 | 21.784 | 21.802 | VV  | 1542  | 16744  | 0.51%  | 0.029% |
| 361 | 21.811 | 21.802 | 21.824 | VV  | 1438  | 18265  | 0.56%  | 0.032% |
| 362 | 21.868 | 21.824 | 21.880 | VV  | 1301  | 43152  | 1.33%  | 0.074% |
| 363 | 21.906 | 21.880 | 21.939 | VV  | 1293  | 35912  | 1.10%  | 0.062% |
| 364 | 21.963 | 21.939 | 21.984 | VV  | 619   | 10359  | 0.32%  | 0.018% |
| 365 | 22.049 | 21.984 | 22.070 | PBA | 29248 | 532469 | 16.38% | 0.919% |

Sum of corrected areas: 57966370

FG052225.M Wed Jun 11 01:56:55 2025

## Report of Analysis

|                    |                                  |                    |          |
|--------------------|----------------------------------|--------------------|----------|
| Client:            | Sciacca General Contractors, LLC | Date Collected:    | 05/27/25 |
| Project:           | 98 Morse Ave Nutley              | Date Received:     | 05/28/25 |
| Client Sample ID:  | WASTEMSD                         | SDG No.:           | Q2147    |
| Lab Sample ID:     | Q2147-01MSD                      | Matrix:            | SOIL     |
| Analytical Method: | 8015D TPH                        | % Solid:           | 81.8     |
| Sample Wt/Vol:     | 30.01                            | Units:             | g        |
| Soil Aliquot Vol:  |                                  |                    | uL       |
| Extraction Type:   |                                  | Test:              | TPH GC   |
| GPC Factor :       |                                  | Injection Volume : |          |
| Prep Method :      | SW3541                           |                    |          |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| FG016008.D        | 1         | 06/09/25 10:35 | 06/10/25 14:07 | PB168365      |

| CAS Number        | Parameter              | Conc. | Qualifier | MDL      | LOQ / CRQL | Units(Dry Weight) |
|-------------------|------------------------|-------|-----------|----------|------------|-------------------|
| <b>TARGETS</b>    |                        |       |           |          |            |                   |
| PHC               | Petroleum Hydrocarbons | 19100 |           | 469      | 3460       | ug/kg             |
| <b>SURROGATES</b> |                        |       |           |          |            |                   |
| 16416-32-3        | TETRACOSANE-d50        | 10.1  |           | 37 - 130 | 51%        | SPK: 20           |

### Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
 Data File : FG016008.D  
 Signal(s) : FID1A.ch  
 Acq On : 10 Jun 2025 14:07  
 Operator : YP\AJ  
 Sample : Q2147-01MSD  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 FID\_G  
 ClientSampleId :  
 WASTEMSD

Integration File: autoint1.e  
 Quant Time: Jun 11 01:39:02 2025  
 Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
 Quant Title :  
 QLast Update : Thu May 22 06:20:25 2025  
 Response via : Initial Calibration  
 Integrator: ChemStation

Volume Inj. : 1uL  
 Signal Phase : Rxi-1ms  
 Signal Info : 20mx0.18mmx0.18um

| Compound                      | R.T.   | Response | Conc Units   |
|-------------------------------|--------|----------|--------------|
| -----                         |        |          |              |
| System Monitoring Compounds   |        |          |              |
| 9) S TETRACOSANE-d50 (SURR... | 14.974 | 1239721  | 10.115 ug/ml |
| Target Compounds              |        |          |              |
| 1) N-OCTANE                   | 1.950  | 2005997  | 17.060 ug/ml |
| 2) N-DECANE                   | 4.475  | 2388205  | 20.325 ug/ml |
| 3) N-DODECANE                 | 6.658  | 2682021  | 22.097 ug/ml |
| 4) N-TETRADECANE              | 8.494  | 2852346  | 22.338 ug/ml |
| 5) N-HEXADECANE               | 10.108 | 3152699  | 23.664 ug/ml |
| 6) N-OCTADECANE               | 11.556 | 3281224  | 23.776 ug/ml |
| 7) N-EICOSANE                 | 12.870 | 3245500  | 22.973 ug/ml |
| 8) N-DOCOSANE                 | 14.073 | 3196184  | 23.268 ug/ml |
| 10) N-TETRACOSANE             | 15.179 | 3311361  | 24.088 ug/ml |
| 11) N-HEXACOSANE              | 16.203 | 3103713  | 22.843 ug/ml |
| 12) N-OCTACOSANE              | 17.156 | 3118002  | 23.126 ug/ml |
| 13) N-TRIACONTANE             | 18.045 | 3007840  | 22.044 ug/ml |
| 14) N-DOTRIACONTANE           | 18.878 | 2585415  | 19.304 ug/ml |
| 15) N-TETRATRIACONTANE        | 19.663 | 1631913  | 13.457 ug/ml |
| 16) N-HEXATRIACONTANE         | 20.404 | 1160239  | 10.865 ug/ml |
| 17) N-OCTATRIACONTANE         | 21.139 | 1034532  | 10.780 ug/ml |
| 18) N-TETRACONTANE            | 22.048 | 1028760  | 11.697 ug/ml |
| -----                         |        |          |              |

(f)=RT Delta > 1/2 Window

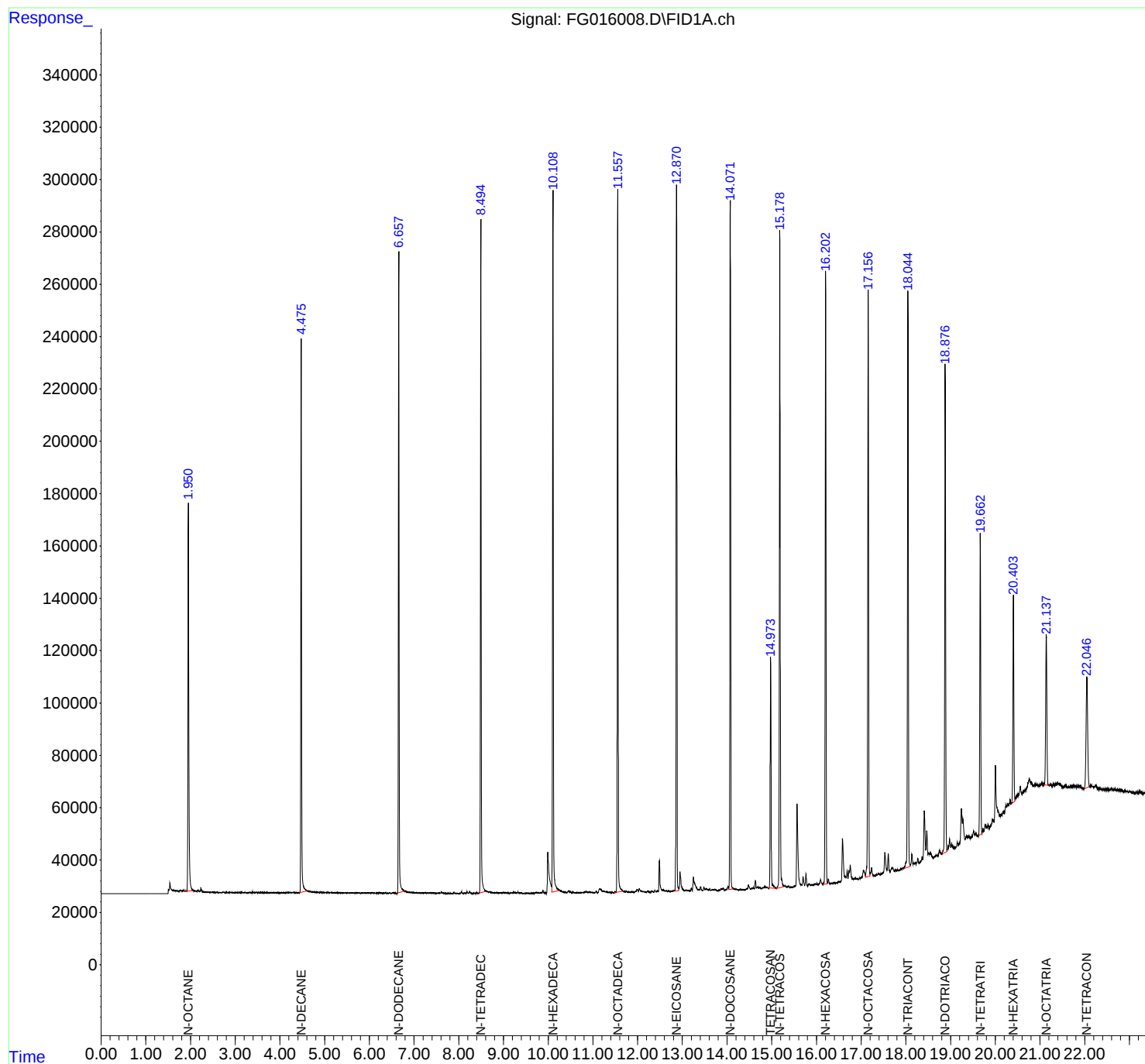
(m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
Data File : FG016008.D  
Signal(s) : FID1A.ch  
Acq On : 10 Jun 2025 14:07  
Operator : YP\AJ  
Sample : Q2147-01MSD  
Misc :  
ALS Vial : 25 Sample Multiplier: 1

Instrument :  
FID\_G  
ClientSampleId :  
WASTEMSD

Integration File: autoint1.e  
Quant Time: Jun 11 01:39:02 2025  
Quant Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
Quant Title :  
QLast Update : Thu May 22 06:20:25 2025  
Response via : Initial Calibration  
Integrator: ChemStation

Volume Inj. : 1uL  
Signal Phase : Rxi-1ms  
Signal Info : 20mx0.18mmx0.18um



Data Path : Z:\pestpcbsrv\HPCHEM1\FID\_G\Data\FG061025\  
 Data File : FG016008.D  
 Signal(s) : FID1A.ch  
 Acq On : 10 Jun 2025 14:07  
 Sample : Q2147-01MSD  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Integration File: Sample.e

Method : Z:\pestpcbsrv\HPCHEM1\FID\_G\Method\FG052225.M  
 Title :

Signal : FID1A.ch

| peak<br># | R.T.<br>min | Start<br>min | End<br>min | PK<br>TY | peak<br>height | peak<br>area | peak<br>% max. | % of<br>total |
|-----------|-------------|--------------|------------|----------|----------------|--------------|----------------|---------------|
| 1         | 1.950       | 1.906        | 2.070      | BV       | 148179         | 2015212      | 60.41%         | 3.374%        |
| 2         | 2.073       | 2.070        | 2.135      | VV       | 386            | 8402         | 0.25%          | 0.014%        |
| 3         | 2.139       | 2.135        | 2.148      | VV       | 229            | 1375         | 0.04%          | 0.002%        |
| 4         | 2.164       | 2.148        | 2.207      | VV       | 570            | 10865        | 0.33%          | 0.018%        |
| 5         | 2.232       | 2.207        | 2.297      | VV       | 1455           | 23424        | 0.70%          | 0.039%        |
| 6         | 2.301       | 2.297        | 2.349      | VV       | 173            | 2284         | 0.07%          | 0.004%        |
| 7         | 2.353       | 2.349        | 2.376      | PV       | 98             | 778          | 0.02%          | 0.001%        |
| 8         | 2.381       | 2.376        | 2.403      | VV       | 99             | 1009         | 0.03%          | 0.002%        |
| 9         | 2.412       | 2.403        | 2.436      | VV       | 131            | 1314         | 0.04%          | 0.002%        |
| 10        | 2.439       | 2.436        | 2.456      | VV       | 162            | 802          | 0.02%          | 0.001%        |
| 11        | 2.463       | 2.456        | 2.481      | PV       | 155            | 1165         | 0.03%          | 0.002%        |
| 12        | 2.488       | 2.481        | 2.499      | PV       | 143            | 815          | 0.02%          | 0.001%        |
| 13        | 2.506       | 2.499        | 2.510      | VV       | 122            | 517          | 0.02%          | 0.001%        |
| 14        | 2.518       | 2.510        | 2.531      | VV       | 135            | 915          | 0.03%          | 0.002%        |
| 15        | 2.535       | 2.531        | 2.539      | VV       | 71             | 240          | 0.01%          | 0.000%        |
| 16        | 2.546       | 2.539        | 2.552      | PV       | 146            | 520          | 0.02%          | 0.001%        |
| 17        | 2.555       | 2.552        | 2.590      | VV       | 102            | 1505         | 0.05%          | 0.003%        |
| 18        | 2.602       | 2.590        | 2.619      | VV       | 118            | 1190         | 0.04%          | 0.002%        |
| 19        | 2.625       | 2.619        | 2.649      | VV       | 118            | 1352         | 0.04%          | 0.002%        |
| 20        | 2.653       | 2.649        | 2.672      | VV       | 134            | 1078         | 0.03%          | 0.002%        |
| 21        | 2.685       | 2.672        | 2.693      | VV       | 122            | 959          | 0.03%          | 0.002%        |
| 22        | 2.698       | 2.693        | 2.707      | VV       | 132            | 785          | 0.02%          | 0.001%        |
| 23        | 2.711       | 2.707        | 2.716      | VV       | 93             | 485          | 0.01%          | 0.001%        |
| 24        | 2.722       | 2.716        | 2.751      | VV       | 159            | 2222         | 0.07%          | 0.004%        |
| 25        | 2.757       | 2.751        | 2.769      | VV       | 149            | 1129         | 0.03%          | 0.002%        |
| 26        | 2.775       | 2.769        | 2.783      | VV       | 118            | 823          | 0.02%          | 0.001%        |
| 27        | 2.793       | 2.783        | 2.822      | VV       | 184            | 2269         | 0.07%          | 0.004%        |
| 28        | 2.829       | 2.822        | 2.833      | VV       | 165            | 662          | 0.02%          | 0.001%        |
| 29        | 2.840       | 2.833        | 2.846      | VV       | 149            | 759          | 0.02%          | 0.001%        |
| 30        | 2.850       | 2.846        | 2.858      | VV       | 103            | 749          | 0.02%          | 0.001%        |
| 31        | 2.863       | 2.858        | 2.886      | VV       | 108            | 1621         | 0.05%          | 0.003%        |
| 32        | 2.893       | 2.886        | 2.908      | VV       | 119            | 1300         | 0.04%          | 0.002%        |
| 33        | 2.913       | 2.908        | 2.922      | VV       | 154            | 977          | 0.03%          | 0.002%        |
| 34        | 2.929       | 2.922        | 2.953      | VV       | 191            | 1790         | 0.05%          | 0.003%        |
| 35        | 2.957       | 2.953        | 2.965      | PV       | 100            | 582          | 0.02%          | 0.001%        |
| 36        | 3.000       | 2.965        | 3.027      | VV       | 207            | 4673         | 0.14%          | 0.008%        |

|    |       |       |       |    |        |      |       |        |
|----|-------|-------|-------|----|--------|------|-------|--------|
|    |       |       |       |    | rteres |      |       |        |
| 37 | 3.038 | 3.027 | 3.053 | VV | 184    | 2114 | 0.06% | 0.004% |
| 38 | 3.061 | 3.053 | 3.068 | VV | 169    | 1197 | 0.04% | 0.002% |
| 39 | 3.078 | 3.068 | 3.102 | VV | 182    | 2382 | 0.07% | 0.004% |
| 40 | 3.105 | 3.102 | 3.121 | VV | 153    | 1149 | 0.03% | 0.002% |
| 41 | 3.125 | 3.121 | 3.160 | VV | 202    | 3409 | 0.10% | 0.006% |
| 42 | 3.181 | 3.160 | 3.207 | VV | 168    | 3662 | 0.11% | 0.006% |
| 43 | 3.211 | 3.207 | 3.228 | VV | 194    | 2001 | 0.06% | 0.003% |
| 44 | 3.232 | 3.228 | 3.240 | VV | 163    | 971  | 0.03% | 0.002% |
| 45 | 3.246 | 3.240 | 3.250 | VV | 186    | 700  | 0.02% | 0.001% |
| 46 | 3.266 | 3.250 | 3.275 | VV | 162    | 1658 | 0.05% | 0.003% |
| 47 | 3.279 | 3.275 | 3.295 | VV | 139    | 1355 | 0.04% | 0.002% |
| 48 | 3.300 | 3.295 | 3.327 | VV | 132    | 2227 | 0.07% | 0.004% |
| 49 | 3.332 | 3.327 | 3.343 | VV | 144    | 921  | 0.03% | 0.002% |
| 50 | 3.369 | 3.343 | 3.374 | VV | 154    | 2022 | 0.06% | 0.003% |
| 51 | 3.381 | 3.374 | 3.413 | VV | 260    | 3279 | 0.10% | 0.005% |
| 52 | 3.424 | 3.413 | 3.442 | VV | 143    | 1894 | 0.06% | 0.003% |
| 53 | 3.468 | 3.442 | 3.487 | VV | 198    | 3460 | 0.10% | 0.006% |
| 54 | 3.493 | 3.487 | 3.504 | VV | 165    | 1200 | 0.04% | 0.002% |
| 55 | 3.507 | 3.504 | 3.512 | VV | 129    | 467  | 0.01% | 0.001% |
| 56 | 3.519 | 3.512 | 3.528 | VV | 141    | 1066 | 0.03% | 0.002% |
| 57 | 3.541 | 3.528 | 3.570 | VV | 176    | 2923 | 0.09% | 0.005% |
| 58 | 3.575 | 3.570 | 3.582 | VV | 146    | 716  | 0.02% | 0.001% |
| 59 | 3.587 | 3.582 | 3.599 | VV | 123    | 1021 | 0.03% | 0.002% |
| 60 | 3.610 | 3.599 | 3.639 | VV | 124    | 2226 | 0.07% | 0.004% |
| 61 | 3.642 | 3.639 | 3.664 | VV | 117    | 1329 | 0.04% | 0.002% |
| 62 | 3.668 | 3.664 | 3.690 | VV | 149    | 1543 | 0.05% | 0.003% |
| 63 | 3.712 | 3.690 | 3.750 | VV | 175    | 3642 | 0.11% | 0.006% |
| 64 | 3.755 | 3.750 | 3.776 | VV | 134    | 1398 | 0.04% | 0.002% |
| 65 | 3.785 | 3.776 | 3.803 | VV | 134    | 1453 | 0.04% | 0.002% |
| 66 | 3.808 | 3.803 | 3.815 | VV | 96     | 528  | 0.02% | 0.001% |
| 67 | 3.838 | 3.815 | 3.849 | VV | 114    | 1543 | 0.05% | 0.003% |
| 68 | 3.854 | 3.849 | 3.860 | VV | 123    | 472  | 0.01% | 0.001% |
| 69 | 3.869 | 3.860 | 3.895 | VV | 126    | 1563 | 0.05% | 0.003% |
| 70 | 3.904 | 3.895 | 3.915 | VV | 79     | 777  | 0.02% | 0.001% |
| 71 | 3.919 | 3.915 | 3.924 | VV | 87     | 310  | 0.01% | 0.001% |
| 72 | 3.929 | 3.924 | 3.935 | VV | 79     | 372  | 0.01% | 0.001% |
| 73 | 3.950 | 3.935 | 3.979 | VV | 156    | 1603 | 0.05% | 0.003% |
| 74 | 3.987 | 3.979 | 4.010 | VV | 139    | 1366 | 0.04% | 0.002% |
| 75 | 4.021 | 4.010 | 4.035 | VV | 118    | 1361 | 0.04% | 0.002% |
| 76 | 4.042 | 4.035 | 4.065 | VV | 174    | 1701 | 0.05% | 0.003% |
| 77 | 4.076 | 4.065 | 4.092 | VV | 143    | 1566 | 0.05% | 0.003% |
| 78 | 4.101 | 4.092 | 4.112 | VV | 133    | 1178 | 0.04% | 0.002% |
| 79 | 4.117 | 4.112 | 4.127 | VV | 156    | 1057 | 0.03% | 0.002% |
| 80 | 4.131 | 4.127 | 4.145 | VV | 165    | 1464 | 0.04% | 0.002% |
| 81 | 4.148 | 4.145 | 4.191 | VV | 182    | 3880 | 0.12% | 0.006% |
| 82 | 4.205 | 4.191 | 4.221 | VV | 182    | 2954 | 0.09% | 0.005% |
| 83 | 4.226 | 4.221 | 4.234 | VV | 205    | 1478 | 0.04% | 0.002% |
| 84 | 4.242 | 4.234 | 4.250 | VV | 298    | 2074 | 0.06% | 0.003% |
| 85 | 4.256 | 4.250 | 4.290 | VV | 230    | 4046 | 0.12% | 0.007% |
| 86 | 4.300 | 4.290 | 4.314 | VV | 210    | 2254 | 0.07% | 0.004% |
| 87 | 4.317 | 4.314 | 4.348 | VV | 203    | 2880 | 0.09% | 0.005% |
| 88 | 4.355 | 4.348 | 4.364 | VV | 124    | 1060 | 0.03% | 0.002% |
| 89 | 4.377 | 4.364 | 4.385 | VV | 175    | 1550 | 0.05% | 0.003% |

|     |       |       |       |    |        |         |        |        |
|-----|-------|-------|-------|----|--------|---------|--------|--------|
|     |       |       |       |    | rteres |         |        |        |
| 90  | 4.395 | 4.385 | 4.413 | VV | 160    | 1943    | 0.06%  | 0.003% |
| 91  | 4.417 | 4.413 | 4.434 | VV | 218    | 1779    | 0.05%  | 0.003% |
| 92  | 4.475 | 4.434 | 4.637 | VV | 211887 | 2450753 | 73.47% | 4.104% |
| 93  | 4.653 | 4.637 | 4.713 | VV | 756    | 26216   | 0.79%  | 0.044% |
| 94  | 4.719 | 4.713 | 4.738 | VV | 458    | 6023    | 0.18%  | 0.010% |
| 95  | 4.742 | 4.738 | 4.746 | VV | 411    | 1950    | 0.06%  | 0.003% |
| 96  | 4.758 | 4.746 | 4.762 | VV | 436    | 3844    | 0.12%  | 0.006% |
| 97  | 4.765 | 4.762 | 4.780 | VV | 466    | 4248    | 0.13%  | 0.007% |
| 98  | 4.783 | 4.780 | 4.789 | VV | 447    | 1968    | 0.06%  | 0.003% |
| 99  | 4.794 | 4.789 | 4.833 | VV | 421    | 8905    | 0.27%  | 0.015% |
| 100 | 4.839 | 4.833 | 4.862 | VV | 352    | 5351    | 0.16%  | 0.009% |
| 101 | 4.874 | 4.862 | 4.897 | VV | 337    | 5716    | 0.17%  | 0.010% |
| 102 | 4.907 | 4.897 | 4.920 | VV | 301    | 3763    | 0.11%  | 0.006% |
| 103 | 4.926 | 4.920 | 4.966 | VV | 313    | 7032    | 0.21%  | 0.012% |
| 104 | 4.975 | 4.966 | 4.982 | VV | 366    | 2622    | 0.08%  | 0.004% |
| 105 | 4.987 | 4.982 | 5.014 | VV | 320    | 4809    | 0.14%  | 0.008% |
| 106 | 5.018 | 5.014 | 5.023 | VV | 242    | 1257    | 0.04%  | 0.002% |
| 107 | 5.028 | 5.023 | 5.047 | VV | 230    | 2956    | 0.09%  | 0.005% |
| 108 | 5.051 | 5.047 | 5.057 | VV | 284    | 1360    | 0.04%  | 0.002% |
| 109 | 5.060 | 5.057 | 5.071 | VV | 291    | 2007    | 0.06%  | 0.003% |
| 110 | 5.090 | 5.071 | 5.120 | VV | 254    | 5601    | 0.17%  | 0.009% |
| 111 | 5.132 | 5.120 | 5.155 | VV | 242    | 4124    | 0.12%  | 0.007% |
| 112 | 5.160 | 5.155 | 5.197 | VV | 212    | 3868    | 0.12%  | 0.006% |
| 113 | 5.207 | 5.197 | 5.237 | VV | 189    | 3244    | 0.10%  | 0.005% |
| 114 | 5.241 | 5.237 | 5.295 | VV | 242    | 4176    | 0.13%  | 0.007% |
| 115 | 5.303 | 5.295 | 5.315 | VV | 154    | 1492    | 0.04%  | 0.002% |
| 116 | 5.322 | 5.315 | 5.400 | VV | 118    | 5722    | 0.17%  | 0.010% |
| 117 | 5.409 | 5.400 | 5.440 | VV | 121    | 1975    | 0.06%  | 0.003% |
| 118 | 5.460 | 5.440 | 5.524 | VV | 248    | 7049    | 0.21%  | 0.012% |
| 119 | 5.529 | 5.524 | 5.549 | VV | 126    | 1608    | 0.05%  | 0.003% |
| 120 | 5.555 | 5.549 | 5.605 | VV | 137    | 3279    | 0.10%  | 0.005% |
| 121 | 5.625 | 5.605 | 5.710 | VV | 218    | 6248    | 0.19%  | 0.010% |
| 122 | 5.729 | 5.710 | 5.738 | VV | 159    | 1779    | 0.05%  | 0.003% |
| 123 | 5.747 | 5.738 | 5.758 | VV | 142    | 1313    | 0.04%  | 0.002% |
| 124 | 5.769 | 5.758 | 5.777 | VV | 135    | 962     | 0.03%  | 0.002% |
| 125 | 5.786 | 5.777 | 5.802 | VV | 89     | 1101    | 0.03%  | 0.002% |
| 126 | 5.809 | 5.802 | 5.842 | VV | 120    | 2410    | 0.07%  | 0.004% |
| 127 | 5.910 | 5.842 | 5.947 | VV | 223    | 7215    | 0.22%  | 0.012% |
| 128 | 5.953 | 5.947 | 5.971 | VV | 64     | 1274    | 0.04%  | 0.002% |
| 129 | 5.999 | 5.971 | 6.071 | VV | 147    | 5412    | 0.16%  | 0.009% |
| 130 | 6.088 | 6.071 | 6.155 | VV | 139    | 4311    | 0.13%  | 0.007% |
| 131 | 6.189 | 6.155 | 6.211 | VV | 110    | 2643    | 0.08%  | 0.004% |
| 132 | 6.252 | 6.211 | 6.328 | VV | 151    | 7281    | 0.22%  | 0.012% |
| 133 | 6.372 | 6.328 | 6.421 | VV | 191    | 5154    | 0.15%  | 0.009% |
| 134 | 6.454 | 6.421 | 6.482 | VV | 136    | 2418    | 0.07%  | 0.004% |
| 135 | 6.548 | 6.482 | 6.605 | VV | 206    | 8601    | 0.26%  | 0.014% |
| 136 | 6.658 | 6.605 | 6.931 | VV | 243747 | 2780816 | 83.36% | 4.656% |
| 137 | 6.944 | 6.931 | 7.165 | VV | 447    | 35885   | 1.08%  | 0.060% |
| 138 | 7.190 | 7.165 | 7.211 | VV | 197    | 4946    | 0.15%  | 0.008% |
| 139 | 7.259 | 7.211 | 7.288 | VV | 245    | 8997    | 0.27%  | 0.015% |
| 140 | 7.301 | 7.288 | 7.319 | VV | 224    | 3542    | 0.11%  | 0.006% |
| 141 | 7.341 | 7.319 | 7.357 | VV | 222    | 4447    | 0.13%  | 0.007% |

|     |        |        |        |    | rteres |         |        |        |
|-----|--------|--------|--------|----|--------|---------|--------|--------|
| 142 | 7.378  | 7.357  | 7.431  | VV | 277    | 10235   | 0.31%  | 0.017% |
| 143 | 7.441  | 7.431  | 7.481  | VV | 290    | 5514    | 0.17%  | 0.009% |
| 144 | 7.550  | 7.481  | 7.588  | VV | 204    | 9945    | 0.30%  | 0.017% |
| 145 | 7.613  | 7.588  | 7.714  | VV | 534    | 14504   | 0.43%  | 0.024% |
| 146 | 7.724  | 7.714  | 7.742  | VV | 113    | 1351    | 0.04%  | 0.002% |
| 147 | 7.770  | 7.742  | 7.805  | VV | 105    | 2519    | 0.08%  | 0.004% |
| 148 | 7.892  | 7.805  | 7.978  | PV | 657    | 12481   | 0.37%  | 0.021% |
| 149 | 7.991  | 7.978  | 8.008  | VV | 38     | 551     | 0.02%  | 0.001% |
| 150 | 8.064  | 8.008  | 8.120  | VV | 701    | 13616   | 0.41%  | 0.023% |
| 151 | 8.139  | 8.120  | 8.156  | VV | 133    | 2212    | 0.07%  | 0.004% |
| 152 | 8.186  | 8.156  | 8.218  | VV | 775    | 11151   | 0.33%  | 0.019% |
| 153 | 8.242  | 8.218  | 8.301  | VV | 860    | 13426   | 0.40%  | 0.022% |
| 154 | 8.348  | 8.301  | 8.369  | VV | 179    | 4085    | 0.12%  | 0.007% |
| 155 | 8.401  | 8.369  | 8.429  | VV | 304    | 5973    | 0.18%  | 0.010% |
| 156 | 8.494  | 8.429  | 8.811  | VV | 257059 | 2966766 | 88.94% | 4.968% |
| 157 | 8.854  | 8.811  | 8.901  | VV | 342    | 13563   | 0.41%  | 0.023% |
| 158 | 8.926  | 8.901  | 8.975  | VV | 359    | 12018   | 0.36%  | 0.020% |
| 159 | 9.034  | 8.975  | 9.120  | VV | 405    | 21260   | 0.64%  | 0.036% |
| 160 | 9.149  | 9.120  | 9.169  | VV | 214    | 4261    | 0.13%  | 0.007% |
| 161 | 9.227  | 9.169  | 9.294  | VV | 521    | 20196   | 0.61%  | 0.034% |
| 162 | 9.328  | 9.294  | 9.478  | VV | 587    | 17181   | 0.52%  | 0.029% |
| 163 | 9.514  | 9.478  | 9.595  | VV | 168    | 5160    | 0.15%  | 0.009% |
| 164 | 9.632  | 9.595  | 9.675  | PV | 93     | 2228    | 0.07%  | 0.004% |
| 165 | 9.743  | 9.675  | 9.821  | VV | 365    | 20029   | 0.60%  | 0.034% |
| 166 | 9.842  | 9.821  | 9.865  | VV | 232    | 5473    | 0.16%  | 0.009% |
| 167 | 9.885  | 9.865  | 9.914  | VV | 1200   | 14966   | 0.45%  | 0.025% |
| 168 | 9.939  | 9.914  | 9.961  | VV | 478    | 6279    | 0.19%  | 0.011% |
| 169 | 9.994  | 9.961  | 10.078 | VV | 15162  | 443062  | 13.28% | 0.742% |
| 170 | 10.108 | 10.078 | 10.408 | VV | 267414 | 3284522 | 98.46% | 5.500% |
| 171 | 10.459 | 10.408 | 10.519 | VV | 860    | 31740   | 0.95%  | 0.053% |
| 172 | 10.538 | 10.519 | 10.562 | VV | 315    | 7388    | 0.22%  | 0.012% |
| 173 | 10.587 | 10.562 | 10.650 | VV | 321    | 11130   | 0.33%  | 0.019% |
| 174 | 10.665 | 10.650 | 10.702 | VV | 215    | 4547    | 0.14%  | 0.008% |
| 175 | 10.736 | 10.702 | 10.751 | VV | 209    | 3999    | 0.12%  | 0.007% |
| 176 | 10.774 | 10.751 | 10.794 | VV | 222    | 4728    | 0.14%  | 0.008% |
| 177 | 10.850 | 10.794 | 10.889 | VV | 602    | 20128   | 0.60%  | 0.034% |
| 178 | 10.919 | 10.889 | 10.940 | VV | 342    | 9113    | 0.27%  | 0.015% |
| 179 | 10.960 | 10.940 | 11.021 | VV | 330    | 9998    | 0.30%  | 0.017% |
| 180 | 11.073 | 11.021 | 11.106 | VV | 678    | 11880   | 0.36%  | 0.020% |
| 181 | 11.150 | 11.106 | 11.343 | VV | 1525   | 98390   | 2.95%  | 0.165% |
| 182 | 11.366 | 11.343 | 11.401 | VV | 265    | 6815    | 0.20%  | 0.011% |
| 183 | 11.414 | 11.401 | 11.455 | VV | 170    | 3502    | 0.10%  | 0.006% |
| 184 | 11.489 | 11.455 | 11.511 | PV | 272    | 4737    | 0.14%  | 0.008% |
| 185 | 11.556 | 11.511 | 11.727 | VV | 268699 | 3328407 | 99.78% | 5.573% |
| 186 | 11.749 | 11.727 | 11.779 | VV | 694    | 12000   | 0.36%  | 0.020% |
| 187 | 11.799 | 11.779 | 11.822 | VV | 286    | 4345    | 0.13%  | 0.007% |
| 188 | 11.872 | 11.822 | 11.922 | VV | 365    | 11152   | 0.33%  | 0.019% |
| 189 | 11.991 | 11.922 | 12.018 | VV | 1091   | 32779   | 0.98%  | 0.055% |
| 190 | 12.039 | 12.018 | 12.201 | VV | 1340   | 46592   | 1.40%  | 0.078% |
| 191 | 12.226 | 12.201 | 12.257 | PV | 530    | 8103    | 0.24%  | 0.014% |
| 192 | 12.280 | 12.257 | 12.305 | VV | 182    | 2970    | 0.09%  | 0.005% |
| 193 | 12.326 | 12.305 | 12.358 | VV | 339    | 5514    | 0.17%  | 0.009% |
| 194 | 12.388 | 12.358 | 12.414 | VV | 823    | 11701   | 0.35%  | 0.020% |

|     |        |        |        |    |        |         |         |        |
|-----|--------|--------|--------|----|--------|---------|---------|--------|
|     |        |        |        |    | rteres |         |         |        |
| 195 | 12.440 | 12.414 | 12.461 | VV | 492    | 8810    | 0.26%   | 0.015% |
| 196 | 12.487 | 12.461 | 12.619 | VV | 11626  | 193736  | 5.81%   | 0.324% |
| 197 | 12.640 | 12.619 | 12.668 | VV | 409    | 9386    | 0.28%   | 0.016% |
| 198 | 12.690 | 12.668 | 12.738 | VV | 405    | 9546    | 0.29%   | 0.016% |
| 199 | 12.791 | 12.738 | 12.811 | VV | 411    | 11070   | 0.33%   | 0.019% |
| 200 | 12.870 | 12.811 | 12.921 | VV | 270338 | 3262419 | 97.80%  | 5.463% |
| 201 | 12.952 | 12.921 | 13.065 | VV | 7482   | 186970  | 5.60%   | 0.313% |
| 202 | 13.084 | 13.065 | 13.181 | VV | 529    | 21511   | 0.64%   | 0.036% |
| 203 | 13.202 | 13.181 | 13.225 | VV | 1166   | 15228   | 0.46%   | 0.025% |
| 204 | 13.251 | 13.225 | 13.355 | VV | 5218   | 170828  | 5.12%   | 0.286% |
| 205 | 13.367 | 13.355 | 13.388 | VV | 656    | 11101   | 0.33%   | 0.019% |
| 206 | 13.409 | 13.388 | 13.455 | VV | 1665   | 30396   | 0.91%   | 0.051% |
| 207 | 13.483 | 13.455 | 13.506 | VV | 1451   | 22718   | 0.68%   | 0.038% |
| 208 | 13.532 | 13.506 | 13.601 | VV | 923    | 37624   | 1.13%   | 0.063% |
| 209 | 13.611 | 13.601 | 13.645 | VV | 603    | 10108   | 0.30%   | 0.017% |
| 210 | 13.668 | 13.645 | 13.705 | VV | 493    | 14048   | 0.42%   | 0.024% |
| 211 | 13.727 | 13.705 | 13.798 | VV | 527    | 15549   | 0.47%   | 0.026% |
| 212 | 13.911 | 13.798 | 13.958 | PV | 1136   | 39991   | 1.20%   | 0.067% |
| 213 | 14.072 | 13.958 | 14.256 | VV | 265639 | 3282775 | 98.41%  | 5.497% |
| 214 | 14.289 | 14.256 | 14.358 | VV | 346    | 8820    | 0.26%   | 0.015% |
| 215 | 14.375 | 14.358 | 14.405 | VV | 107    | 2031    | 0.06%   | 0.003% |
| 216 | 14.478 | 14.405 | 14.530 | PV | 1879   | 49986   | 1.50%   | 0.084% |
| 217 | 14.587 | 14.530 | 14.607 | VV | 770    | 22398   | 0.67%   | 0.038% |
| 218 | 14.635 | 14.607 | 14.661 | VV | 3395   | 48316   | 1.45%   | 0.081% |
| 219 | 14.684 | 14.661 | 14.714 | VV | 774    | 21884   | 0.66%   | 0.037% |
| 220 | 14.736 | 14.714 | 14.772 | VV | 676    | 14913   | 0.45%   | 0.025% |
| 221 | 14.840 | 14.772 | 14.935 | VV | 857    | 46886   | 1.41%   | 0.079% |
| 222 | 14.974 | 14.935 | 15.098 | VV | 87786  | 1254272 | 37.60%  | 2.100% |
| 223 | 15.179 | 15.098 | 15.286 | PV | 250510 | 3335819 | 100.00% | 5.586% |
| 224 | 15.302 | 15.286 | 15.343 | VV | 722    | 16436   | 0.49%   | 0.028% |
| 225 | 15.371 | 15.343 | 15.408 | VV | 658    | 11929   | 0.36%   | 0.020% |
| 226 | 15.434 | 15.408 | 15.458 | VV | 58     | 1744    | 0.05%   | 0.003% |
| 227 | 15.565 | 15.458 | 15.670 | PV | 31082  | 661604  | 19.83%  | 1.108% |
| 228 | 15.700 | 15.670 | 15.738 | VV | 3560   | 62585   | 1.88%   | 0.105% |
| 229 | 15.764 | 15.738 | 15.802 | VV | 4738   | 69035   | 2.07%   | 0.116% |
| 230 | 15.833 | 15.802 | 15.865 | VV | 682    | 15189   | 0.46%   | 0.025% |
| 231 | 15.884 | 15.865 | 15.901 | VV | 301    | 5746    | 0.17%   | 0.010% |
| 232 | 16.005 | 15.901 | 16.048 | VV | 447    | 25636   | 0.77%   | 0.043% |
| 233 | 16.090 | 16.048 | 16.138 | VV | 1820   | 44255   | 1.33%   | 0.074% |
| 234 | 16.203 | 16.138 | 16.245 | VV | 234034 | 3108963 | 93.20%  | 5.206% |
| 235 | 16.266 | 16.245 | 16.301 | VV | 1835   | 26628   | 0.80%   | 0.045% |
| 236 | 16.326 | 16.301 | 16.358 | VV | 234    | 5217    | 0.16%   | 0.009% |
| 237 | 16.436 | 16.358 | 16.461 | PV | 234    | 8852    | 0.27%   | 0.015% |
| 238 | 16.494 | 16.461 | 16.521 | PV | 594    | 11810   | 0.35%   | 0.020% |
| 239 | 16.583 | 16.521 | 16.665 | VV | 16373  | 385774  | 11.56%  | 0.646% |
| 240 | 16.685 | 16.665 | 16.704 | VV | 4076   | 60577   | 1.82%   | 0.101% |
| 241 | 16.755 | 16.704 | 16.825 | VV | 5698   | 179474  | 5.38%   | 0.301% |
| 242 | 16.854 | 16.825 | 16.944 | VV | 665    | 26540   | 0.80%   | 0.044% |
| 243 | 17.053 | 16.944 | 17.091 | PV | 2774   | 100166  | 3.00%   | 0.168% |
| 244 | 17.155 | 17.091 | 17.208 | VV | 223757 | 3145829 | 94.30%  | 5.267% |
| 245 | 17.232 | 17.208 | 17.300 | VV | 3347   | 64706   | 1.94%   | 0.108% |
| 246 | 17.387 | 17.300 | 17.425 | PV | 520    | 18992   | 0.57%   | 0.032% |

|     |        |        |        |     |                         |          |        |        |
|-----|--------|--------|--------|-----|-------------------------|----------|--------|--------|
|     |        |        |        |     |                         | rters    |        |        |
| 247 | 17.530 | 17.425 | 17.578 | VV  | 7787                    | 186263   | 5.58%  | 0.312% |
| 248 | 17.604 | 17.578 | 17.648 | VV  | 7268                    | 120015   | 3.60%  | 0.201% |
| 249 | 17.701 | 17.648 | 17.748 | VV  | 1697                    | 58961    | 1.77%  | 0.099% |
| 250 | 17.771 | 17.748 | 17.795 | VV  | 527                     | 9883     | 0.30%  | 0.017% |
| 251 | 17.824 | 17.795 | 17.848 | VV  | 391                     | 6995     | 0.21%  | 0.012% |
| 252 | 17.936 | 17.848 | 17.951 | PV  | 544                     | 14833    | 0.44%  | 0.025% |
| 253 | 18.044 | 17.951 | 18.098 | VV  | 218110                  | 3015215  | 90.39% | 5.049% |
| 254 | 18.133 | 18.098 | 18.161 | VV  | 4451                    | 76984    | 2.31%  | 0.129% |
| 255 | 18.178 | 18.161 | 18.198 | VV  | 823                     | 14359    | 0.43%  | 0.024% |
| 256 | 18.268 | 18.198 | 18.298 | VV  | 2072                    | 43849    | 1.31%  | 0.073% |
| 257 | 18.412 | 18.298 | 18.445 | PV  | 19146                   | 428150   | 12.83% | 0.717% |
| 258 | 18.467 | 18.445 | 18.498 | VV  | 10927                   | 190692   | 5.72%  | 0.319% |
| 259 | 18.518 | 18.498 | 18.599 | VV  | 2298                    | 95482    | 2.86%  | 0.160% |
| 260 | 18.755 | 18.599 | 18.797 | PV  | 1663                    | 42533    | 1.28%  | 0.071% |
| 261 | 18.878 | 18.797 | 18.921 | PV  | 184094                  | 2583881  | 77.46% | 4.327% |
| 262 | 18.977 | 18.921 | 19.003 | VV  | 4330                    | 97483    | 2.92%  | 0.163% |
| 263 | 19.022 | 19.003 | 19.092 | VV  | 1905                    | 50373    | 1.51%  | 0.084% |
| 264 | 19.149 | 19.092 | 19.172 | PV  | 1620                    | 30105    | 0.90%  | 0.050% |
| 265 | 19.241 | 19.172 | 19.322 | VV  | 13661                   | 498630   | 14.95% | 0.835% |
| 266 | 19.350 | 19.322 | 19.371 | VV  | 2446                    | 59916    | 1.80%  | 0.100% |
| 267 | 19.398 | 19.371 | 19.448 | VV  | 2181                    | 80177    | 2.40%  | 0.134% |
| 268 | 19.513 | 19.448 | 19.545 | VV  | 3117                    | 106931   | 3.21%  | 0.179% |
| 269 | 19.567 | 19.545 | 19.610 | VV  | 2340                    | 49728    | 1.49%  | 0.083% |
| 270 | 19.663 | 19.610 | 19.704 | VV  | 114994                  | 1670008  | 50.06% | 2.796% |
| 271 | 19.727 | 19.704 | 19.748 | VV  | 2428                    | 46347    | 1.39%  | 0.078% |
| 272 | 19.773 | 19.748 | 19.815 | VV  | 3787                    | 108979   | 3.27%  | 0.182% |
| 273 | 19.838 | 19.815 | 19.868 | VV  | 2975                    | 74279    | 2.23%  | 0.124% |
| 274 | 19.943 | 19.868 | 19.968 | VV  | 4233                    | 176186   | 5.28%  | 0.295% |
| 275 | 20.003 | 19.968 | 20.135 | VV  | 24531                   | 820757   | 24.60% | 1.374% |
| 276 | 20.279 | 20.135 | 20.301 | VV  | 7642                    | 601911   | 18.04% | 1.008% |
| 277 | 20.332 | 20.301 | 20.355 | VV  | 8787                    | 247937   | 7.43%  | 0.415% |
| 278 | 20.403 | 20.355 | 20.448 | VV  | 85322                   | 1568664  | 47.02% | 2.627% |
| 279 | 20.558 | 20.448 | 20.601 | VV  | 12093                   | 881287   | 26.42% | 1.476% |
| 280 | 20.758 | 20.601 | 20.866 | VV  | 13524                   | 1712049  | 51.32% | 2.867% |
| 281 | 20.885 | 20.866 | 20.909 | VV  | 10129                   | 259372   | 7.78%  | 0.434% |
| 282 | 20.934 | 20.909 | 20.968 | VV  | 9755                    | 338040   | 10.13% | 0.566% |
| 283 | 21.048 | 20.968 | 21.079 | VV  | 9330                    | 605209   | 18.14% | 1.013% |
| 284 | 21.140 | 21.079 | 21.215 | VV  | 65796                   | 1691312  | 50.70% | 2.832% |
| 285 | 21.237 | 21.215 | 21.285 | VV  | 7469                    | 300531   | 9.01%  | 0.503% |
| 286 | 21.342 | 21.285 | 21.365 | VV  | 6892                    | 325773   | 9.77%  | 0.545% |
| 287 | 21.420 | 21.365 | 21.525 | VV  | 6479                    | 549510   | 16.47% | 0.920% |
| 288 | 21.565 | 21.525 | 21.615 | VV  | 4445                    | 223030   | 6.69%  | 0.373% |
| 289 | 21.695 | 21.615 | 21.718 | VV  | 3315                    | 202956   | 6.08%  | 0.340% |
| 290 | 21.741 | 21.718 | 21.827 | VV  | 3017                    | 168289   | 5.04%  | 0.282% |
| 291 | 21.887 | 21.827 | 21.988 | VV  | 1608                    | 115750   | 3.47%  | 0.194% |
| 292 | 22.048 | 21.988 | 22.071 | PBA | 31596                   | 646934   | 19.39% | 1.083% |
|     |        |        |        |     | Sum of corrected areas: | 59721916 |        |        |

FG052225.M Wed Jun 11 01:57:22 2025

### Manual Integration Report

| Sample ID  | ClientId ID | File ID    | Sequence ID | Parameter      | Supervised By | Supervised On        | Reason                                  |
|------------|-------------|------------|-------------|----------------|---------------|----------------------|-----------------------------------------|
| 5 TRPH STD |             | FG015890.D | FG052225    | N-TETRACONTANE | mohammad      | 5/23/2025 5:16:45 AM | Peak Integrated by Software incorrectly |
|            |             |            |             |                |               |                      |                                         |

Manual Integration Report

| Sample ID | ClientId ID | File ID | Sequence ID | Parameter | Supervised By | Supervised On | Reason |
|-----------|-------------|---------|-------------|-----------|---------------|---------------|--------|
|           |             |         |             |           |               |               |        |
|           |             |         |             |           |               |               |        |

Instrument ID: FID\_G

**Daily Analysis Runlog For Sequence/QC Batch ID # FG052225**

|                                                                                                    |                                         |                   |                               |
|----------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------|-------------------------------|
| Review By                                                                                          | yogesh                                  | Review On         | 5/21/2025 1:58:58 PM          |
| Supervise By                                                                                       | mohammad                                | Supervise On      | 5/23/2025 5:16:45 AM          |
| SubDirectory                                                                                       | FG052225                                | HP Acquire Method | HP Processing Method FG052225 |
| <b>STD. NAME</b>                                                                                   | <b>STD REF.#</b>                        |                   |                               |
| Tune/Reschk<br>Initial Calibration Stds                                                            | PP24467,PP24469,PP24470,PP24471,PP24472 |                   |                               |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24468,PP24473                         |                   |                               |

| Sr# | SampleId     | Data File Name | Date-Time         | Operator | Status |
|-----|--------------|----------------|-------------------|----------|--------|
| 1   | MECL2        | FG015884.D     | 21 May 2025 20:34 | YP\AJ    | Ok     |
| 2   | I.BLK        | FG015885.D     | 21 May 2025 21:03 | YP\AJ    | Ok     |
| 3   | 100 TRPH STD | FG015886.D     | 21 May 2025 21:33 | YP\AJ    | Ok     |
| 4   | 50 TRPH STD  | FG015887.D     | 21 May 2025 22:02 | YP\AJ    | Ok     |
| 5   | 20 TRPH STD  | FG015888.D     | 21 May 2025 22:31 | YP\AJ    | Ok     |
| 6   | 10 TRPH STD  | FG015889.D     | 21 May 2025 23:00 | YP\AJ    | Ok     |
| 7   | 5 TRPH STD   | FG015890.D     | 21 May 2025 23:30 | YP\AJ    | Ok,M   |
| 8   | FG052225ICV  | FG015891.D     | 21 May 2025 23:59 | YP\AJ    | Ok     |
| 9   | PP24596      | FG015892.D     | 22 May 2025 00:58 | YP\AJ    | Ok     |

M : Manual Integration

Instrument ID: FID\_G

**Daily Analysis Runlog For Sequence/QC Batch ID # FG061025**

|                                                                    |                                         |                   |                               |
|--------------------------------------------------------------------|-----------------------------------------|-------------------|-------------------------------|
| Review By                                                          | yogesh                                  | Review On         | 6/10/2025 12:14:20 PM         |
| Supervise By                                                       |                                         | Supervise On      |                               |
| SubDirectory                                                       | FG061025                                | HP Acquire Method | HP Processing Method FG052225 |
| <b>STD. NAME</b>                                                   | <b>STD REF.#</b>                        |                   |                               |
| Tune/Reschk<br>Initial Calibration Stds                            | PP24467,PP24469,PP24470,PP24471,PP24472 |                   |                               |
| CCC<br>Internal Standard/PEM                                       | PP24469                                 |                   |                               |
| ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24468,PP24473                         |                   |                               |

| Sr# | SampleId        | Data File Name | Date-Time         | Operator | Status |
|-----|-----------------|----------------|-------------------|----------|--------|
| 1   | MECL2           | FG016000.D     | 10 Jun 2025 10:02 | YP\AJ    | Ok     |
| 2   | I.BLK           | FG016001.D     | 10 Jun 2025 10:32 | YP\AJ    | Ok     |
| 3   | 50 PPM TRPH STD | FG016002.D     | 10 Jun 2025 11:01 | YP\AJ    | Ok     |
| 4   | RT MARKER       | FG016003.D     | 10 Jun 2025 11:40 | YP\AJ    | Ok     |
| 5   | PB168365BL      | FG016004.D     | 10 Jun 2025 12:10 | YP\AJ    | Ok     |
| 6   | PB168365BS      | FG016005.D     | 10 Jun 2025 12:39 | YP\AJ    | Ok     |
| 7   | Q2147-01        | FG016006.D     | 10 Jun 2025 13:08 | YP\AJ    | Ok,NR  |
| 8   | Q2147-01MS      | FG016007.D     | 10 Jun 2025 13:38 | YP\AJ    | Ok     |
| 9   | Q2147-01MSD     | FG016008.D     | 10 Jun 2025 14:07 | YP\AJ    | Ok     |
| 10  | I.BLK           | FG016009.D     | 10 Jun 2025 14:37 | YP\AJ    | Ok     |
| 11  | 50 PPM TRPH STD | FG016010.D     | 10 Jun 2025 15:06 | YP\AJ    | Ok     |

M : Manual Integration

Instrument ID: FID\_G

**Daily Analysis Runlog For Sequence/QC Batch ID # FG052225**

|              |          |                   |                               |
|--------------|----------|-------------------|-------------------------------|
| Review By    | yogesh   | Review On         | 5/21/2025 1:58:58 PM          |
| Supervise By | mohammad | Supervise On      | 5/23/2025 5:16:45 AM          |
| SubDirectory | FG052225 | HP Acquire Method | HP Processing Method FG052225 |

| STD. NAME                                                                                          | STD REF.#                               |
|----------------------------------------------------------------------------------------------------|-----------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds                                                            | PP24467,PP24469,PP24470,PP24471,PP24472 |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | PP24468,PP24473                         |

| Sr# | SampleID     | ClientID | Data File Name | Date-Time         | Comment | Operator | Status |
|-----|--------------|----------|----------------|-------------------|---------|----------|--------|
| 1   | MECL2        |          | FG015884.D     | 21 May 2025 20:34 |         | YP\AJ    | Ok     |
| 2   | I.BLK        |          | FG015885.D     | 21 May 2025 21:03 |         | YP\AJ    | Ok     |
| 3   | 100 TRPH STD |          | FG015886.D     | 21 May 2025 21:33 |         | YP\AJ    | Ok     |
| 4   | 50 TRPH STD  |          | FG015887.D     | 21 May 2025 22:02 |         | YP\AJ    | Ok     |
| 5   | 20 TRPH STD  |          | FG015888.D     | 21 May 2025 22:31 |         | YP\AJ    | Ok     |
| 6   | 10 TRPH STD  |          | FG015889.D     | 21 May 2025 23:00 |         | YP\AJ    | Ok     |
| 7   | 5 TRPH STD   |          | FG015890.D     | 21 May 2025 23:30 |         | YP\AJ    | Ok,M   |
| 8   | FG052225ICV  |          | FG015891.D     | 21 May 2025 23:59 |         | YP\AJ    | Ok     |
| 9   | PP24596      |          | FG015892.D     | 22 May 2025 00:58 |         | YP\AJ    | Ok     |

M : Manual Integration

Instrument ID: FID\_G

**Daily Analysis Runlog For Sequence/QC Batch ID # FG061025**

|                                         |                                         |                   |                               |
|-----------------------------------------|-----------------------------------------|-------------------|-------------------------------|
| Review By                               | yogesh                                  | Review On         | 6/10/2025 12:14:20 PM         |
| Supervise By                            |                                         | Supervise On      |                               |
| SubDirectory                            | FG061025                                | HP Acquire Method | HP Processing Method FG052225 |
| <b>STD. NAME</b>                        | <b>STD REF.#</b>                        |                   |                               |
| Tune/Reschk<br>Initial Calibration Stds | PP24467,PP24469,PP24470,PP24471,PP24472 |                   |                               |
| CCC                                     | PP24469                                 |                   |                               |
| Internal Standard/PEM                   |                                         |                   |                               |
| ICV/I.BLK                               | PP24468,PP24473                         |                   |                               |
| Surrogate Standard                      |                                         |                   |                               |
| MS/MSD Standard                         |                                         |                   |                               |
| LCS Standard                            |                                         |                   |                               |

| Sr# | SampleID        | ClientID | Data File Name | Date-Time         | Comment | Operator | Status |
|-----|-----------------|----------|----------------|-------------------|---------|----------|--------|
| 1   | MECL2           |          | FG016000.D     | 10 Jun 2025 10:02 |         | YP\AJ    | Ok     |
| 2   | I.BLK           |          | FG016001.D     | 10 Jun 2025 10:32 |         | YP\AJ    | Ok     |
| 3   | 50 PPM TRPH STD |          | FG016002.D     | 10 Jun 2025 11:01 |         | YP\AJ    | Ok     |
| 4   | RT MARKER       |          | FG016003.D     | 10 Jun 2025 11:40 |         | YP\AJ    | Ok     |
| 5   | PB168365BL      |          | FG016004.D     | 10 Jun 2025 12:10 |         | YP\AJ    | Ok     |
| 6   | PB168365BS      |          | FG016005.D     | 10 Jun 2025 12:39 |         | YP\AJ    | Ok     |
| 7   | Q2147-01        |          | FG016006.D     | 10 Jun 2025 13:08 |         | YP\AJ    | Ok,NR  |
| 8   | Q2147-01MS      |          | FG016007.D     | 10 Jun 2025 13:38 |         | YP\AJ    | Ok     |
| 9   | Q2147-01MSD     |          | FG016008.D     | 10 Jun 2025 14:07 |         | YP\AJ    | Ok     |
| 10  | I.BLK           |          | FG016009.D     | 10 Jun 2025 14:37 |         | YP\AJ    | Ok     |
| 11  | 50 PPM TRPH STD |          | FG016010.D     | 10 Jun 2025 15:06 |         | YP\AJ    | Ok     |

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona  
Analyst: jignesh  
Date: 5/29/2025

OVENTEMP IN Celsius(°C): 107  
Time IN: 17:00  
In Date: 05/28/2025  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103  
Time OUT: 08:11  
Out Date: 05/29/2025  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
BalanceID: M SC-4  
Thermometer ID: % SOLID- OVEN

QC:LB135934

| Lab ID   | Client SampleID    | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments        |
|----------|--------------------|--------|----------------|--------------|-------------------------|---------------------------|---------|-----------------|
| Q2135-01 | 1977               | 1      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | caluk           |
| Q2136-01 | OR-646-COMP-52     | 2      | 1.18           | 10.37        | 11.55                   | 10.04                     | 85.4    |                 |
| Q2136-02 | OR-646-VOC-52      | 3      | 1.15           | 10.30        | 11.45                   | 9.45                      | 80.6    |                 |
| Q2136-03 | OR-646-154         | 4      | 1.19           | 10.53        | 11.72                   | 9.58                      | 79.7    |                 |
| Q2136-04 | OR-646-155         | 5      | 1.19           | 10.00        | 11.19                   | 8.97                      | 77.8    |                 |
| Q2137-01 | MOO-25-0149        | 6      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | debris          |
| Q2137-02 | MOO-25-0149        | 7      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | debris          |
| Q2138-01 | SMALL-CONCRETE-PAD | 8      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | CONCRETE sample |
| Q2139-01 | BELL-25-0010       | 9      | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | debris          |
| Q2139-02 | BELL-25-0010       | 10     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | debris          |
| Q2140-01 | KMH5090-1-1        | 11     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | wipe sample     |
| Q2140-02 | KMH5090-1-2        | 12     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | wipe sample     |
| Q2141-01 | VNJ-215            | 13     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | CONCRETE sample |
| Q2142-01 | Y2309-0029-1-1     | 14     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | wipe sample     |
| Q2142-02 | Y2309-0029-1-2     | 15     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | wipe sample     |
| Q2143-01 | ELI-46-36-25-58-53 | 16     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | debris          |
| Q2143-02 | ELI-57-43-35-26    | 17     | 1.14           | 10.32        | 11.46                   | 11.03                     | 95.8    |                 |
| Q2144-01 | OILY-DEBRIS-COMP-A | 18     | 1.00           | 1.00         | 2.00                    | 2.00                      | 100.0   | debris          |
| Q2144-02 | OILY-DEBRIS-COMP-B | 19     | 1.18           | 10.04        | 11.22                   | 10.55                     | 93.3    |                 |
| Q2146-01 | TP04-MHN-WC        | 20     | 1.15           | 9.93         | 11.08                   | 9.08                      | 79.9    |                 |
| Q2146-02 | TP04-MHN-VOC       | 21     | 1.19           | 10.53        | 11.72                   | 10.27                     | 86.2    |                 |
| Q2146-03 | TP04-MHN-EPH       | 22     | 1.12           | 10.87        | 11.99                   | 8.21                      | 65.2    |                 |
| Q2147-01 | WASTE              | 23     | 1.18           | 10.78        | 11.96                   | 10.00                     | 81.8    |                 |
| Q2147-02 | VOC                | 24     | 1.14           | 10.53        | 11.67                   | 9.82                      | 82.4    |                 |
| Q2147-03 | 1                  | 25     | 1.18           | 10.71        | 11.89                   | 10.41                     | 86.2    |                 |
| Q2147-04 | 2                  | 26     | 1.17           | 10.64        | 11.81                   | 10.23                     | 85.2    |                 |
| Q2147-05 | 3                  | 27     | 1.13           | 10.66        | 11.79                   | 10.33                     | 86.3    |                 |
| Q2147-06 | 4                  | 28     | 1.16           | 10.68        | 11.84                   | 10.26                     | 85.2    |                 |



PERCENT SOLID

Supervisor: Iwona  
Analyst: jignesh  
Date: 5/29/2025

OVENTEMP IN Celsius(°C): 107  
Time IN: 17:00  
In Date: 05/28/2025  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103  
Time OUT: 08:11  
Out Date: 05/29/2025  
Weight Check 1.0g: 1.00  
Weight Check 10g: 10.00  
BalanceID: M SC-4  
Thermometer ID: % SOLID- OVEN

QC:LB135934

| Lab ID   | Client SampleID | Dish # | Dish Wt (g) (A) | Sample Wt (g) | Dish + Sample Wt (g) (B) | Dish+Dry Sample Wt (g) (C) | % Solid | Comments |
|----------|-----------------|--------|-----------------|---------------|--------------------------|----------------------------|---------|----------|
| Q2147-07 | 5               | 29     | 1.18            | 9.87          | 11.05                    | 9.58                       | 85.1    |          |
| Q2149-01 | FILTER-CAKE     | 30     | 1.15            | 10.37         | 11.52                    | 7.32                       | 59.5    |          |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

# WORKLIST(Hardcopy Internal Chain)

87133934

WorkList Name : %1-052825

WorkList ID : 199773

Department : Wet-Chemistry

Date : 05-28-2025 08:19:19

| Sample   | Customer Sample    | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method       |
|----------|--------------------|--------|----------------|--------------|----------|-----------------------------|--------------|--------------|
| Q2135-01 | 1977               | Solid  | Percent Solids | Cool 4 deg C | ATCE02   | L31                         | 05/28/2025   | Chemtech -SO |
| Q2136-01 | OR-646-COMP-52     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L41                         | 05/27/2025   | Chemtech -SO |
| Q2136-02 | OR-646-VOC-52      | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L41                         | 05/27/2025   | Chemtech -SO |
| Q2136-03 | OR-646-154         | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L41                         | 05/27/2025   | Chemtech -SO |
| Q2136-04 | OR-646-155         | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L41                         | 05/27/2025   | Chemtech -SO |
| Q2137-01 | MOO-25-0149        | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L31                         | 05/27/2025   | Chemtech -SO |
| Q2137-02 | MOO-25-0149        | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L31                         | 05/28/2025   | Chemtech -SO |
| Q2138-01 | SMALL-CONCRETE-PAD | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L41                         | 05/28/2025   | Chemtech -SO |
| Q2139-01 | BELL-25-0010       | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L41                         | 05/28/2025   | Chemtech -SO |
| Q2139-02 | BELL-25-0010       | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L41                         | 05/28/2025   | Chemtech -SO |
| Q2140-01 | KMH5090-1-1        | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L41                         | 05/28/2025   | Chemtech -SO |
| Q2140-02 | KMH5090-1-2        | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L41                         | 05/28/2025   | Chemtech -SO |
| Q2141-01 | VNJ-215            | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L41                         | 05/28/2025   | Chemtech -SO |
| Q2142-01 | Y2309-0029-1-1     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L41                         | 05/28/2025   | Chemtech -SO |
| Q2142-02 | Y2309-0029-1-2     | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L41                         | 05/28/2025   | Chemtech -SO |
| Q2143-01 | ELI-46-36-25-58-53 | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L41                         | 05/28/2025   | Chemtech -SO |
| Q2143-02 | ELI-57-43-35-26    | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L31                         | 05/28/2025   | Chemtech -SO |
| Q2144-01 | OILY-DEBRIS-COMP-A | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L31                         | 05/28/2025   | Chemtech -SO |
| Q2144-02 | OILY-DEBRIS-COMP-B | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L31                         | 05/28/2025   | Chemtech -SO |
| Q2146-01 | TP04-MHN-WC        | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L31                         | 05/28/2025   | Chemtech -SO |
| Q2146-02 | TP04-MHN-VOC       | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L31                         | 05/28/2025   | Chemtech -SO |

Date/Time 05/28/25 13:30

Raw Sample Received by: SQ WC

Raw Sample Relinquished by: WSM

Date/Time 05/28/25 17:15

Raw Sample Received by: JG Son

Raw Sample Relinquished by: JG Son

# WORKLIST(Hardcopy Internal Chain)

17 135934

WorkList Name : %1-052825

WorkList ID : 189773

Department : Wet-Chemistry

Date : 05-28-2025 08:19:19

| Sample   | Customer Sample | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method       |
|----------|-----------------|--------|----------------|--------------|----------|-----------------------------|--------------|--------------|
| Q2146-03 | TP04-MHN-EPH    | Solid  | Percent Solids | Cool 4 deg C | PSEG03   | L31                         | 05/28/2025   | Chemtech -SO |
| Q2147-01 | WASTE           | Solid  | Percent Solids | Cool 4 deg C | SCIA01   | L41                         | 05/27/2025   | Chemtech -SO |
| Q2147-02 | VOC             | Solid  | Percent Solids | Cool 4 deg C | SCIA01   | L41                         | 05/27/2025   | Chemtech -SO |
| Q2147-03 | 1               | Solid  | Percent Solids | Cool 4 deg C | SCIA01   | L41                         | 05/27/2025   | Chemtech -SO |
| Q2147-04 | 2               | Solid  | Percent Solids | Cool 4 deg C | SCIA01   | L41                         | 05/27/2025   | Chemtech -SO |
| Q2147-05 | 3               | Solid  | Percent Solids | Cool 4 deg C | SCIA01   | L41                         | 05/27/2025   | Chemtech -SO |
| Q2147-06 | 4               | Solid  | Percent Solids | Cool 4 deg C | SCIA01   | L41                         | 05/27/2025   | Chemtech -SO |
| Q2147-07 | 5               | Solid  | Percent Solids | Cool 4 deg C | SCIA01   | L41                         | 05/27/2025   | Chemtech -SO |
| Q2149-01 | FILTER-CAKE     | Solid  | Percent Solids | Cool 4 deg C | ARAM01   | L31                         | 05/28/2025   | Chemtech -SO |

Date/Time 05/28/25 13:30

Raw Sample Received by: SA 6001

Raw Sample Relinquished by: cfsn

Date/Time 05/28/25 17:15

Raw Sample Received by: cfsn

Raw Sample Relinquished by: cfsn

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Extraction Start Date : 06/09/2025

Matrix : Solid

Extraction Start Time : 10:35

Weigh By: EH

Extraction By: RJ

Extraction End Date : 06/09/2025

Balance check: RJ

Filter By: RJ

Extraction End Time : 13:40

Balance ID: EX-SC-2

pH Meter ID: N/A

Concentration By: EH

pH Strip Lot#: N/A

Hood ID: 3,7

Supervisor By : rajesh

Extraction Method: ☐ Separatory Funnel ☐ Continous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

| Standard Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---------------|----------|---------------------|---------------------|
| Spike Sol 1   | 1.0ML    | 20 PPM              | PP24162             |
| Surrogate     | 1.0ML    | 20 PPM              | PP24596             |
| N/A           | N/A      | N/A                 | N/A                 |
| N/A           | N/A      | N/A                 | N/A                 |
| N/A           | N/A      | N/A                 | N/A                 |

| Chemical Used      | ML/SAMPLE USED | Lot Number |
|--------------------|----------------|------------|
| MeCl2/Acetone/1:1  | N/A            | EP2612     |
| Baked Na2SO4       | N/A            | EP2620     |
| Sand               | N/A            | E2865      |
| Methylene Chloride | N/A            | E3939      |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID: N/A

Envap ID: NEVAP-02

KD Bath Temperature: N/A

Envap Temperature: 40 °C

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|-------------|-----------------------------------------|----------------------|
| 06/09/25    | RP (Ext. Lab)                           | Y.P. Parth / 18/13   |
| 13:45       | Preparation Group                       | Analysis Group       |

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 06/09/2025

| Sample ID       | Client Sample ID | Test   | g/mL  | PH  | Surr/Spike By: |            | Final Vol.<br>(mL) | JarID | Comments | Prep<br>Pos |
|-----------------|------------------|--------|-------|-----|----------------|------------|--------------------|-------|----------|-------------|
|                 |                  |        |       |     | AddedBy        | VerifiedBy |                    |       |          |             |
| PB168365BL      | PB168365BL       | TPH GC | 30.01 | N/A | ritesh         | Evelyn     | 1                  |       |          | U6-1        |
| PB168365BS      | PB168365BS       | TPH GC | 30.02 | N/A | ritesh         | Evelyn     | 1                  |       |          | 2           |
| Q2147-01        | WASTE            | TPH GC | 30.05 | N/A | ritesh         | Evelyn     | 1                  | E     |          | 3           |
| Q2147-01MS      | WASTEMS          | TPH GC | 30.03 | N/A | ritesh         | Evelyn     | 1                  | E     |          | 4           |
| Q2147-01MS<br>D | WASTEMSD         | TPH GC | 30.01 | N/A | ritesh         | Evelyn     | 1                  | E     |          | 5           |

\* Extracts relinquished on the same date as received.

*P*  
6/9/25

16836  
10:35

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2147T      WorkList ID : 190050      Department : Extraction      Date : 06-09-2025 10:29:12

| Sample   | Customer Sample | Matrix | Test   | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|----------|-----------------|--------|--------|--------------|----------|-----------------------------|--------------|--------|
| Q2147-01 | WASTE           | Solid  | TPH GC | Cool 4 deg C | SCIA01   | L41                         | 05/27/2025   | 8015D  |

Date/Time 06/09/25 15:30  
Raw Sample Received by: RJ (Get bag)  
Raw Sample Relinquished by: JP

Date/Time 06/09/25 10:45  
Raw Sample Received by: JP  
Raw Sample Relinquished by: JP (Get bag)



# SHIPPING DOCUMENTS

Q2147

98 Morse Ave

# CHEMTECH

## CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092  
(908) 789-8900 Fax (908) 789-8922  
www.chemtech.net

Chemtech Project Number Noted  
COC Number

| CLIENT INFORMATION    |  | PROJECT INFORMATION |                  | BILLING INFORMATION |             |
|-----------------------|--|---------------------|------------------|---------------------|-------------|
| Report to be sent to: |  | PROJECT NAME:       | LOCATION:        | BILL TO:            | PO#         |
| COMPANY:              |  | PROJECT #:          | PROJECT MANAGER: | ADDRESS:            |             |
| ADDRESS:              |  | E-MAIL:             | PHONE:           | CITY:               | STATE: ZIP: |
| CITY: STATE: ZIP:     |  | PHONE:              | FAX:             | ATTENTION:          |             |
| ATTENTION:            |  |                     |                  | PHONE:              |             |
| PHONE: FAX:           |  |                     |                  |                     |             |

| DATA TURNAROUND INFORMATION                           |       | DATA DELIVERABLE INFORMATION                               |                                                                         | ANALYSIS |  |
|-------------------------------------------------------|-------|------------------------------------------------------------|-------------------------------------------------------------------------|----------|--|
| FAX (RUSH):                                           | DAYS* | <input type="checkbox"/> Level 1 (Results Only)            | <input type="checkbox"/> Level 4 (QC + Full Raw Data)                   |          |  |
| HARDCOPY (DATA PACKAGE):                              | DAYS* | <input type="checkbox"/> Level 2 (Results + QC)            | <input type="checkbox"/> NJ Reduced <input type="checkbox"/> US EPA CLP |          |  |
| EDD:                                                  | DAYS* | <input type="checkbox"/> Level 3 (Results + QC + Raw Data) | <input type="checkbox"/> NYS ASP A <input type="checkbox"/> NYS ASP B   |          |  |
| *TO BE APPROVED BY CHEMTECH                           |       | <input type="checkbox"/> EDD FORMAT                        | <input type="checkbox"/> Other                                          |          |  |
| STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS |       |                                                            |                                                                         |          |  |

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE |      | SAMPLE COLLECTION |       | # of Bottles | PRESERVATIVES |   |   |   |   |   |   |   |   | COMMENTS |  |
|--------------------|-------------------------------|---------------|-------------|------|-------------------|-------|--------------|---------------|---|---|---|---|---|---|---|---|----------|--|
|                    |                               |               | CONP        | GRAS | DATE              | TIME  |              | 1             | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |          |  |
| 1.                 | WASTE                         |               |             |      | 5/27              | 12:45 | 1            | X             |   |   |   |   |   |   |   |   |          |  |
| 2.                 | VOC                           |               |             |      | 5/27              | 12:45 | 1            |               | X |   |   |   |   |   |   |   |          |  |
| 3.                 | 1                             |               |             |      | 5/27              | 12:45 | 1            |               |   | X |   |   |   |   |   |   |          |  |
| 4.                 | 2                             |               |             |      | 5/27              | 12:45 | 1            |               |   | X |   |   |   |   |   |   |          |  |
| 5.                 | 3                             |               |             |      | 5/27              | 12:45 | 1            |               |   | X |   |   |   |   |   |   |          |  |
| 6.                 | 4                             |               |             |      | 5/27              | 12:45 | 1            |               |   | X |   |   |   |   |   |   |          |  |
| 7.                 | 5                             |               |             |      | 5/27              | 12:45 | 1            |               |   | X |   |   |   |   |   |   |          |  |
| 8.                 |                               |               |             |      |                   |       |              |               |   |   |   |   |   |   |   |   |          |  |
| 9.                 |                               |               |             |      |                   |       |              |               |   |   |   |   |   |   |   |   |          |  |
| 10.                |                               |               |             |      |                   |       |              |               |   |   |   |   |   |   |   |   |          |  |

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER | DATE/TIME | RECEIVED BY                   | Conditions of bottles or collars at receipt: | COMPLIANT                | NON COMPLIANT            | COOLER TEMP | Comments: |
|-------------------------|-----------|-------------------------------|----------------------------------------------|--------------------------|--------------------------|-------------|-----------|
| 1.                      |           | 1. <u>[Signature]</u> 5-28-27 |                                              | <input type="checkbox"/> | <input type="checkbox"/> | 4-5         |           |
| RELINQUISHED BY         | DATE/TIME | RECEIVED BY                   |                                              |                          |                          |             |           |
| 2.                      |           | 2. <u>[Signature]</u>         |                                              |                          |                          |             |           |
| RELINQUISHED BY         | DATE/TIME | RECEIVED FOR LAB BY           |                                              |                          |                          |             |           |
| 3.                      | 5-28-27   | 3. <u>[Signature]</u>         |                                              |                          |                          |             |           |

Page \_\_\_\_\_ of \_\_\_\_\_

CLIENT: ☐ Hand Delivered ☐ Other: \_\_\_\_\_

CHEMTECH: ☐ Picked Up

Shipment Complete ☐ YES ☐ NO

10/2018 WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

### Laboratory Certification

| Certified By         | License No.      |
|----------------------|------------------|
|                      |                  |
| CAS EPA CLP Contract | 68HERH20D0011    |
|                      |                  |
| Connecticut          | PH-0830          |
|                      |                  |
| DOD ELAP (ANAB)      | L2219            |
|                      |                  |
| Maine                | 2024021          |
|                      |                  |
| Maryland             | 296              |
|                      |                  |
| New Hampshire        | 255424 Rev 1     |
|                      |                  |
| New Jersey           | 20012            |
|                      |                  |
| New York             | 11376            |
|                      |                  |
| Pennsylvania         | 68-00548         |
|                      |                  |
| Soil Permit          | 525-24-234-08441 |
|                      |                  |
| Texas                | T104704488       |

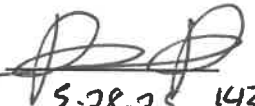


284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

## LOGIN REPORT/SAMPLE TRANSFER

|                                                  |        |                                                |                                   |
|--------------------------------------------------|--------|------------------------------------------------|-----------------------------------|
| <b>Order ID :</b> Q2147                          | SCIA01 | <b>Order Date :</b> 5/28/2025 1:30:00 PM       | <b>Project Mgr :</b>              |
| <b>Client Name :</b> Sciacca General Contractor  |        | <b>Project Name :</b> 98 Morse Ave Nutley      | <b>Report Type :</b> Results Only |
| <b>Client Contact :</b> Rosanne Scirica          |        | <b>Receive DateTime :</b> 5/28/2025 1:37:00 PM | <b>EDD Type :</b> EXCEL NJCLEANUP |
| <b>Invoice Name :</b> Sciacca General Contractor |        | <b>Purchase Order :</b>                        | <b>Hard Copy Date :</b>           |
| <b>Invoice Contact :</b> Rosanne Scirica         |        |                                                | <b>Date Signoff :</b>             |

| LAB ID   | CLIENT ID | MATRIX | SAMPLE<br>DATE | SAMPLE<br>TIME | TEST          | TEST GROUP | METHOD | FAX DATE | DUE<br>DATES |
|----------|-----------|--------|----------------|----------------|---------------|------------|--------|----------|--------------|
| Q2147-02 | VOC       | Solid  | 05/27/2025     | 08:00          | VOC-TCLVOA-10 |            | 8260D  |          | 10 Bus. Days |

Relinquished By : 

Date / Time : 5-28-25 1435

Received By : 

Date / Time : 5/28/25 1435

Storage Area : VOA Refridgerator Room