LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA N\DATA\BN042318\
Data File : BN000824.D
Acq On : 23 Apr 2018 12:35
Operator : JU/SJ
Sample : J2467-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** A3XT8

Integration Parameters: events.e
Integrator: ChemStation
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Title : ??? S

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 6.799 | 642 | 648 | 657 | rVB | 127843 | 200462 | 8.24% | 0.787% |
| 2 | 6.969 | 670 | 677 | 689 | rBV | 470433 | 708328 | 29.11% | 2.781% |
| 3 | 7.157 | 703 | 709 | 717 | rBV | 463769 | 698035 | 28.68% | 2.741% |
| 4 | 7.622 | 781 | 788 | 795 | rVB | 464332 | 701647 | 28.83% | 2.755% |
| 5 | 8.322 | 900 | 907 | 917 | rVB | 358869 | 554280 | 22.78% | 2.177% |
| 6 | 8.763 | 975 | 982 | 993 | rVB | 513512 | 785095 | 32.26% | 3.083% |
| 7 | 9.210 | 1053 | 1058 | 1064 | rVB | 29911 | 41886 | 1.72% | 0.164% |
| 8 | 9.481 | 1097 | 1104 | 1112 | rVB | 393897 | 622842 | 25.59% | 2.446% |
| 9 | 10.010 | 1187 | 1194 | 1206 | rBV | 613270 | 958375 | 39.38% | 3.763% |
| 10 | 10.387 | 1251 | 1258 | 1265 | rBV | 632890 | 1014626 | 41.69% | 3.984% |
| 11 | 10.528 | 1275 | 1282 | 1289 | rBV | 18386 | 29311 | 1.20% | 0.115% |
| 12 | 13.669 | 1810 | 1816 | 1821 | rBV | 1055991 | 1361148 | 55.93% | 5.345% |
| 13 | 13.716 | 1821 | 1824 | 1829 | rVB | 99070 | 123259 | 5.07% | 0.484% |
| 14 | 13.939 | 1856 | 1862 | 1875 | rBV | 1212682 | 1755303 | 72.13% | 6.893% |
| 15 | 14.180 | 1898 | 1903 | 1909 | rVB | 31604 | 39840 | 1.64% | 0.156% |
| 16 | 14.251 | 1909 | 1915 | 1926 | rVB2 | 819704 | 1236643 | 50.82% | 4.856% |
| 17 | 14.451 | 1943 | 1949 | 1958 | rBV | 57220 | 88589 | 3.64% | 0.348% |
| 18 | 15.133 | 2060 | 2065 | 2070 | rVB | 40559 | 47970 | 1.97% | 0.188% |
| 19 | 15.251 | 2078 | 2085 | 2094 | rVB | 1472416 | 2096718 | 86.16% | 8.233% |
| 20 | 15.363 | 2099 | 2104 | 2112 | rBV | 404804 | 538833 | 22.14% | 2.116% |
| 21 | 15.998 | 2207 | 2212 | 2221 | rBV | 31040 | 52226 | 2.15% | 0.205% |
| 22 | 16.998 | 2376 | 2382 | 2389 | rBV2 | 997561 | 1370881 | 56.33% | 5.383% |
| 23 | 17.098 | 2392 | 2399 | 2412 | rVB2 | 1500819 | 2128670 | 87.47% | 8.359% |
| 24 | 17.916 | 2534 | 2538 | 2546 | rBV | 47858 | 63580 | 2.61% | 0.250% |
| 25 | 19.204 | 2753 | 2757 | 2767 | rBV | 26343 | 33025 | 1.36% | 0.130% |
| 26 | 19.398 | 2784 | 2790 | 2799 | rBV | 1787485 | 2392408 | 98.31% | 9.394% |
| 27 | 20.945 | 3050 | 3053 | 3057 | rBV3 | 20887 | 30246 | 1.24% | 0.119% |
| 28 | 21.204 | 3091 | 3097 | 3104 | rBV | 1247041 | 1520507 | 62.48% | 5.971% |
| 29 | 22.274 | 3276 | 3279 | 3285 | rVB4 | 21003 | 26341 | 1.08% | 0.103% |
| 30 | 22.768 | 3360 | 3363 | 3369 | rVB | 36737 | 48089 | 1.98% | 0.189% |
| 31 | 23.256 | 3438 | 3446 | 3453 | rBV2 | 1342725 | 2433474 | 100.00% | 9.556% |
| 32 | 23.315 | 3454 | 3456 | 3461 | rVV | 48283 | 71690 | 2.95% | 0.282% |
| 33 | 23.392 | 3462 | 3469 | 3479 | rVB2 | 844277 | 1545097 | 63.49% | 6.067% |
| 34 | 23.945 | 3560 | 3563 | 3569 | rVB3 | 41575 | 66492 | 2.73% | 0.261% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA N\DATA\BN042318\
Data File : BN000824.D
Acq On : 23 Apr 2018 12:35
Operator : JU/SJ
Sample : J2467-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** A3XT8

Integration Parameters: events.e
Integrator: ChemStation
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Title : ??? S

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 24.668 | 3683 | 3686 | 3693 | rVB3 | 42205 | 80390 | 3.30% | 0.316% |

Sum of corrected areas: 25466306

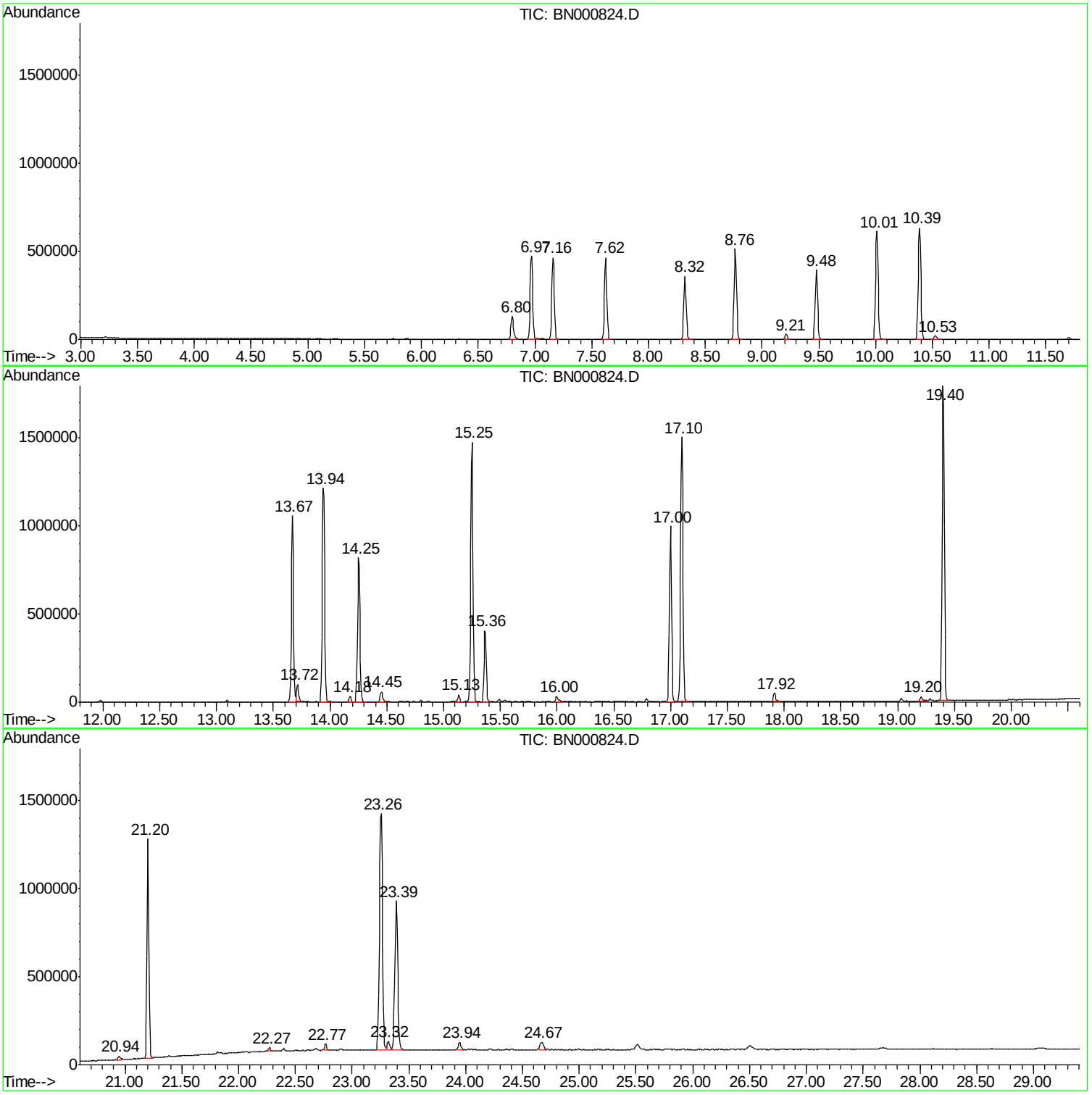
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA N\DATA\BN042318\
Data File : BN000824.D
Acq On : 23 Apr 2018 12:35
Operator : JU/SJ
Sample : J2467-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** A3XT8

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA N\DATA\BN042318\
Data File : BN000824.D
Acq On : 23 Apr 2018 12:35
Operator : JU/SJ
Sample : J2467-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** A3XT8

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

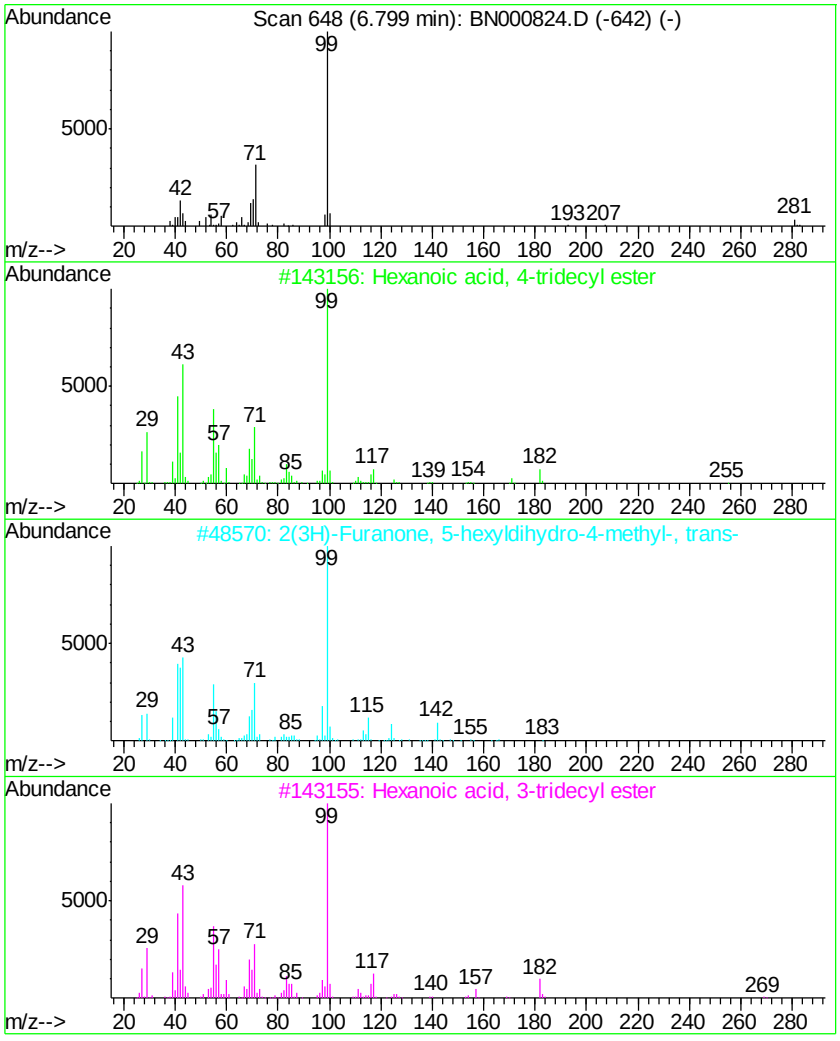
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

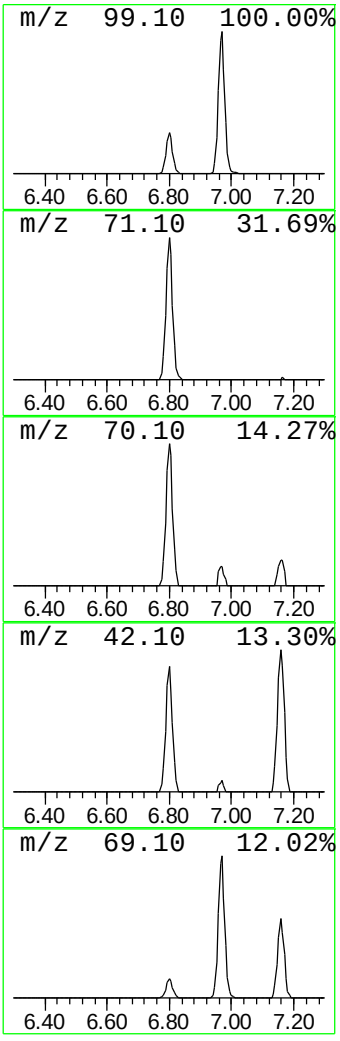
**********

Peak Number 1 Hexanoic acid, 4-tridecyl e... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.80 | 5.71 ng/ul | 200462 | 1,4-Dichlorobenzene-d4 | 7.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexanoic acid, 4-tridecyl ester | 298 | C19H38O2 | 1000279-29-3 | 64 |
| 2 | 2(3H)-Furanone, 5-hexyldihydro-4... | 184 | C11H20O2 | 147254-33-9 | 56 |
| 3 | Hexanoic acid, 3-tridecyl ester | 298 | C19H38O2 | 1000279-29-2 | 56 |
| 4 | Hexanoic acid, 5-tridecyl ester | 298 | C19H38O2 | 1000279-29-4 | 56 |
| 5 | Hexanoic acid, 4-tetradecyl ester | 312 | C20H40O2 | 1000279-29-8 | 56 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA N\DATA\BN042318\
Data File : BN000824.D
Acq On : 23 Apr 2018 12:35
Operator : JU/SJ
Sample : J2467-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** A3XT8

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

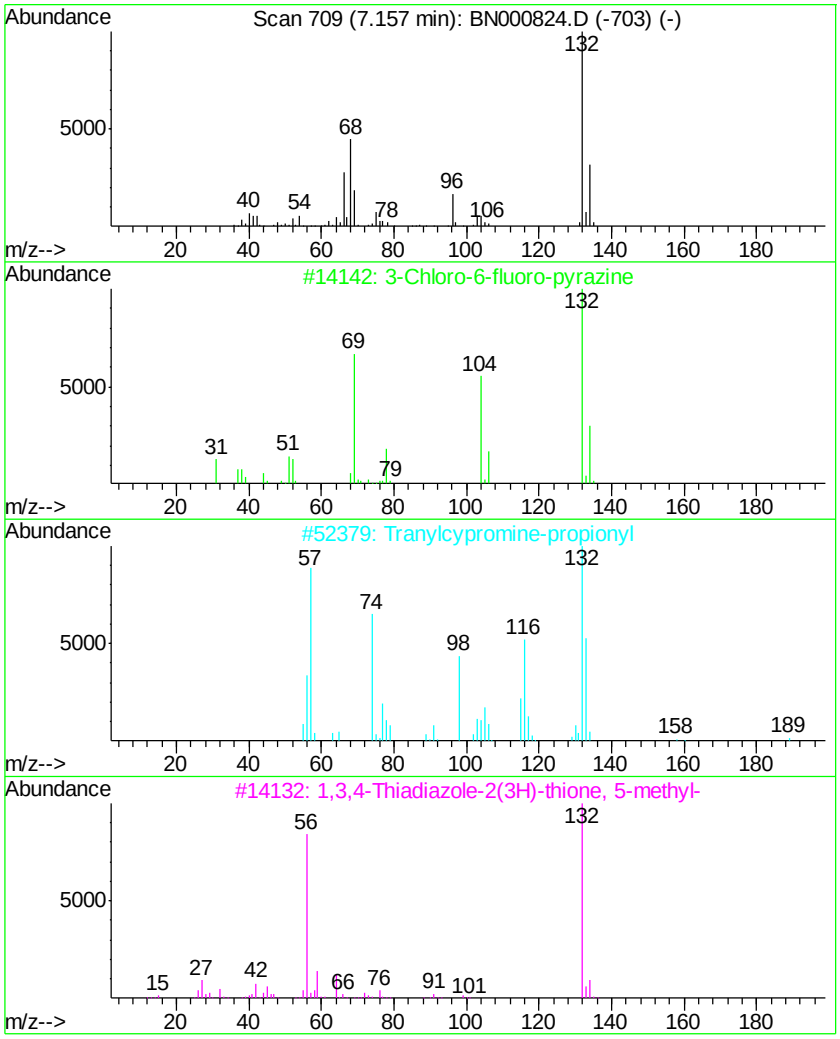
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

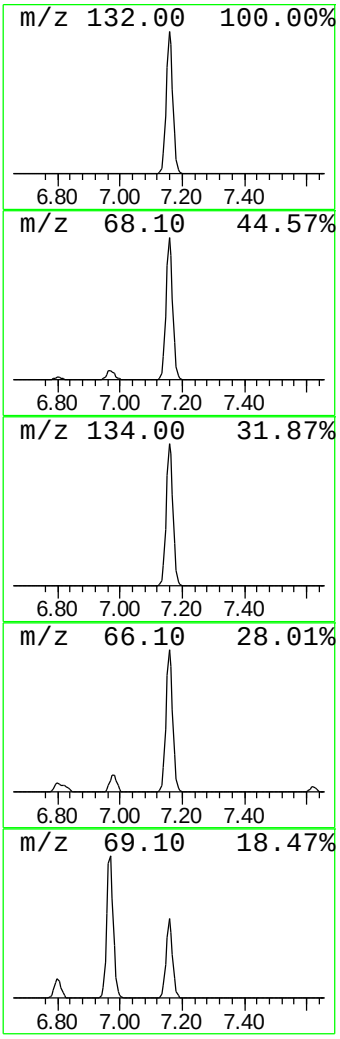
**********

Peak Number 3 unknown-01 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.16 | 19.90 ng/ul | 698035 | 1,4-Dichlorobenzene-d4 | 7.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 35 |
| 2 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 3 | 1,3,4-Thiadiazole-2(3H)-thione, ... | 132 | C3H4N2S2 | 029490-19-5 | 9 |
| 4 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |
| 5 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN042318\
Data File : BN000824.D
Acq On : 23 Apr 2018 12:35
Operator : JU/SJ
Sample : J2467-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** A3XT8

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

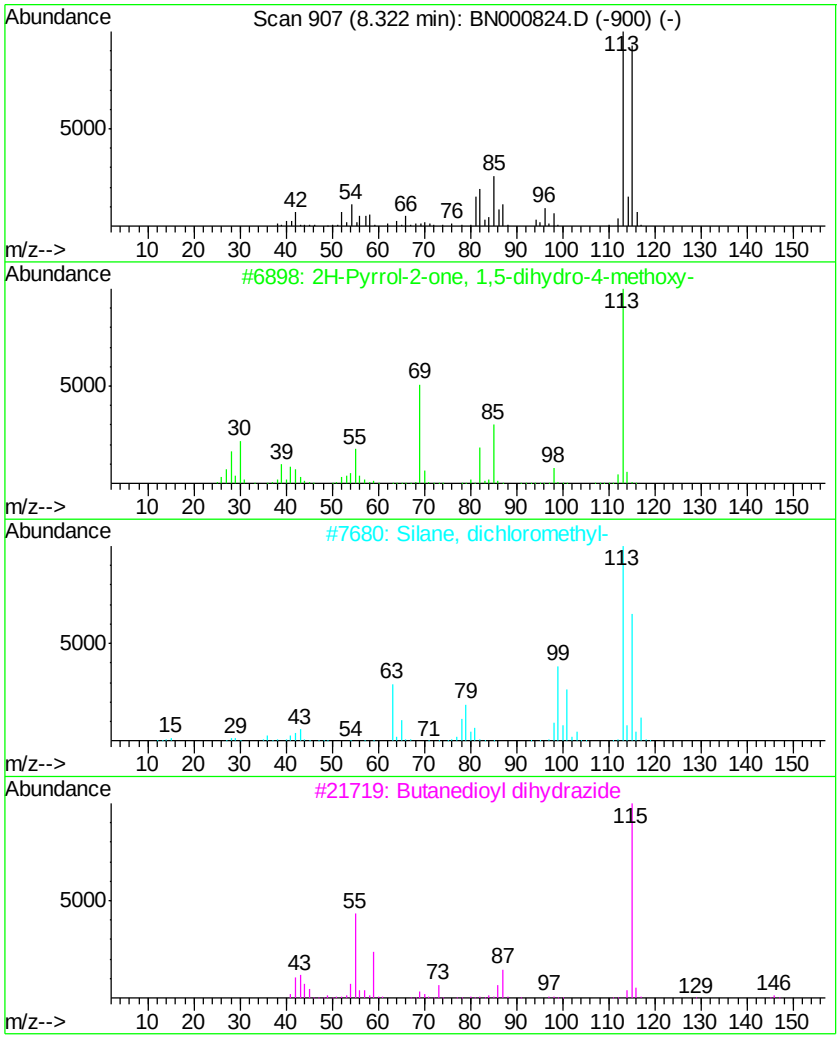
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

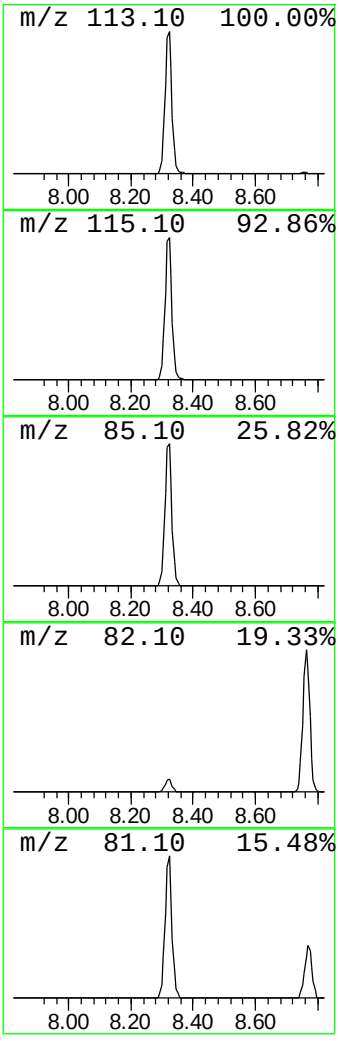
**********

Peak Number 4 unknown-02 Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.32 | 15.80 ng/ul | 554280 | 1,4-Dichlorobenzene-d4 | 7.62 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2H-Pyrrol-2-one, 1,5-dihydro-4-m... | 113 | C5H7NO2 | 069778-83-2 | 37 |
| 2 | Silane, dichloromethyl- | 114 | CH4Cl2Si | 000075-54-7 | 36 |
| 3 | Butanedioyl dihydrazide | 146 | C4H10N4O2 | 004146-43-4 | 27 |
| 4 | Heptanoic acid, anhydride | 242 | C14H26O3 | 000626-27-7 | 25 |
| 5 | 2(3H)-Oxazolethione, 4-methyl- | 115 | C4H5NOS | 013016-17-6 | 22 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA N\DATA\BN042318\
Data File : BN000824.D
Acq On : 23 Apr 2018 12:35
Operator : JU/SJ
Sample : J2467-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** A3XT8

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

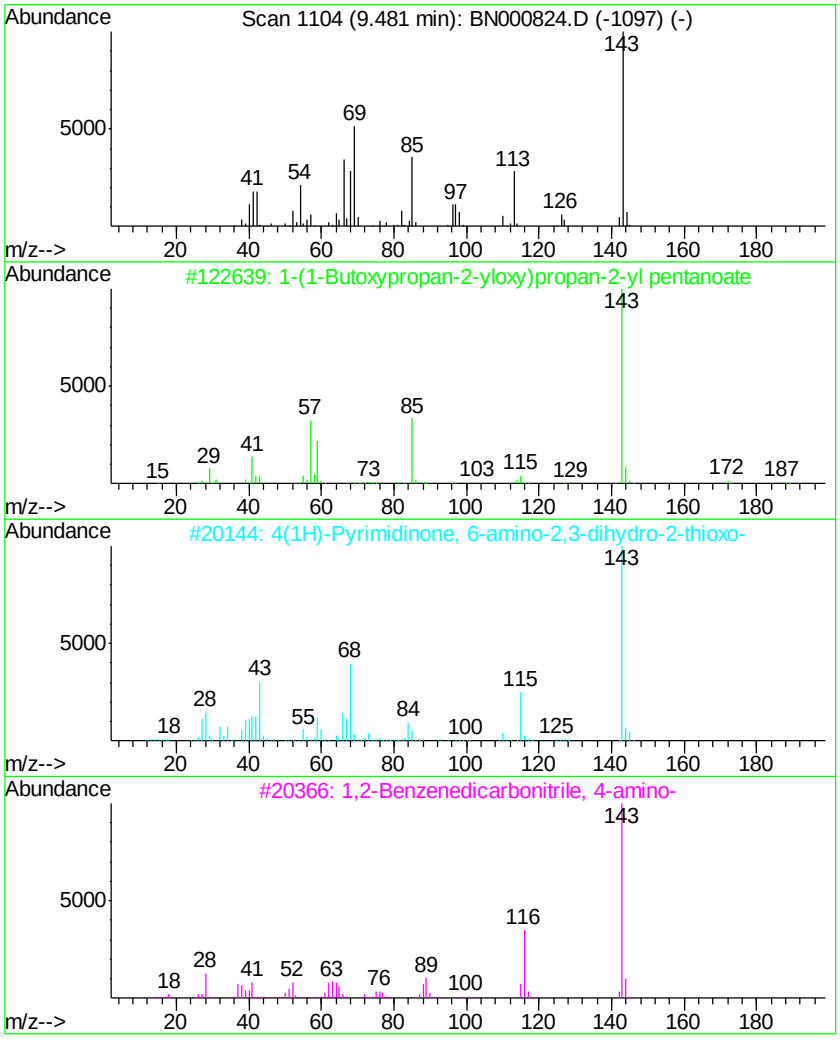
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

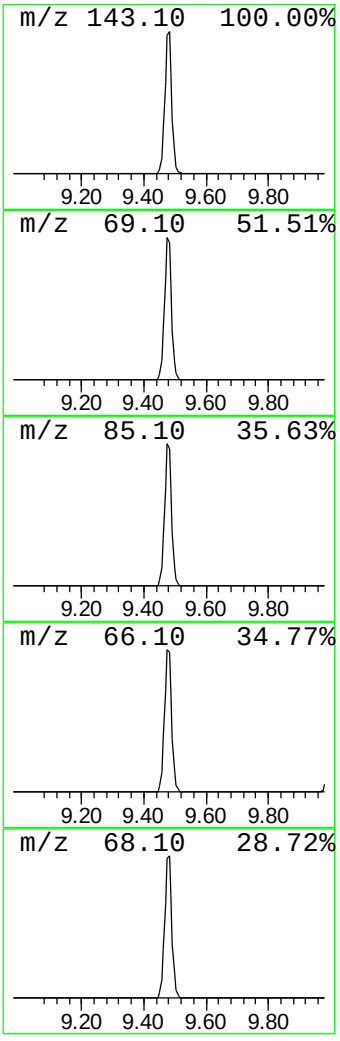
**********

Peak Number 6 unknown-03 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.48 | 12.28 ng/ul | 622842 | Naphthalene-d8 | 10.39 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-(1-Butoxypropan-2-yloxy)propan... | 274 | C15H30O4 | 1000367-13-0 | 22 |
| 2 | 4(1H)-Pyrimidinone, 6-amino-2,3-... | 143 | C4H5N3OS | 001004-40-6 | 17 |
| 3 | 1,2-Benzenedicarbonitrile, 4-amino- | 143 | C8H5N3 | 056765-79-8 | 14 |
| 4 | 1-(1-Butoxypropan-2-yloxy)propan... | 274 | C15H30O4 | 1000367-12-9 | 12 |
| 5 | 6-Chloro-N-methyl-3-pyridazinamine | 143 | C5H6ClN3 | 014959-32-1 | 12 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN042318\
Data File : BN000824.D
Acq On : 23 Apr 2018 12:35
Operator : JU/SJ
Sample : J2467-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** A3XT8

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

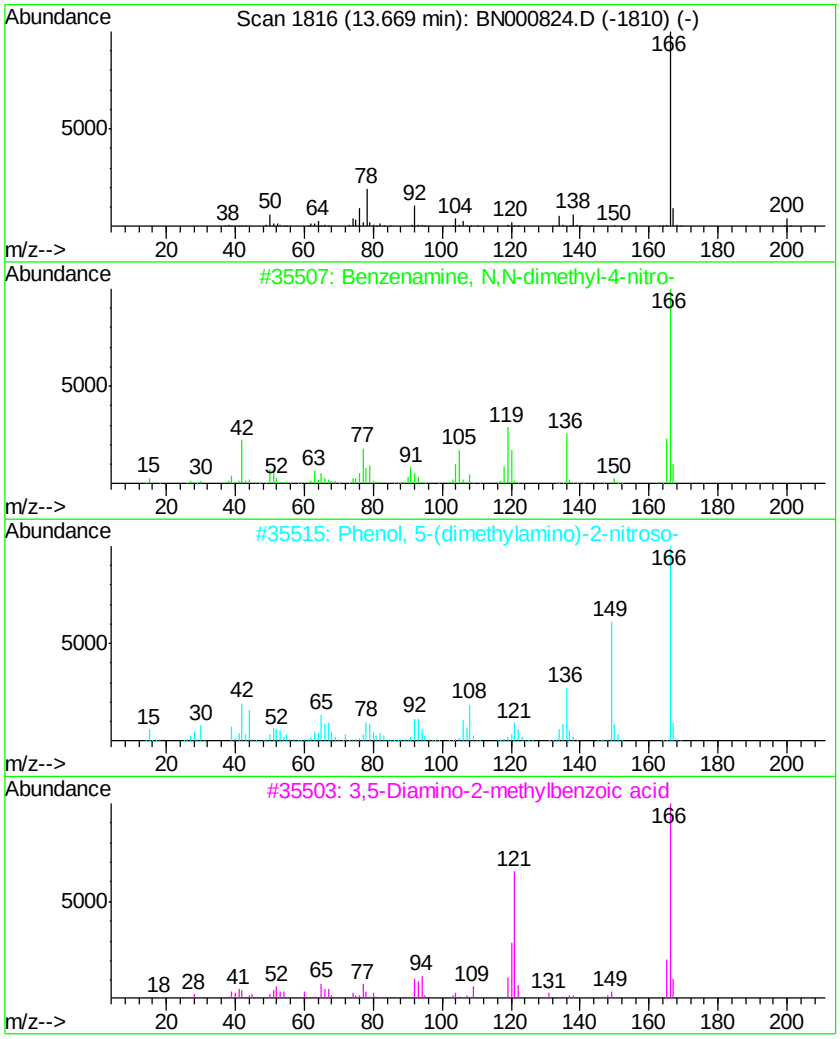
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

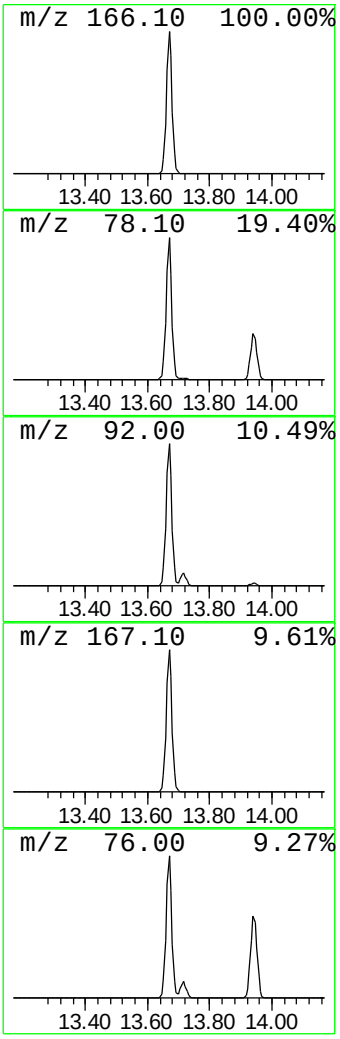
**********

Peak Number 7 unknown-04 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.67 | 22.01 ng/ul | 1361150 | Acenaphthene-d10 | 14.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenamine, N,N-dimethyl-4-nitro- | 166 | C8H10N2O2 | 000100-23-2 | 36 |
| 2 | Phenol, 5-(dimethylamino)-2-nitr... | 166 | C8H10N2O2 | 016761-04-9 | 33 |
| 3 | 3,5-Diamino-2-methylbenzoic acid | 166 | C8H10N2O2 | 090007-30-0 | 33 |
| 4 | 1H-Purine-2,6-dione, 3,7-dihydro... | 166 | C6H6N4O2 | 006136-37-4 | 9 |
| 5 | p-Anisamidoxime | 166 | C8H10N2O2 | 005373-87-5 | 9 |



Data Path : Z:\HPCHEM1\BNA N\DATA\BN042318\
Data File : BN000824.D
Acq On : 23 Apr 2018 12:35
Operator : JU/SJ
Sample : J2467-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** A3XT8

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

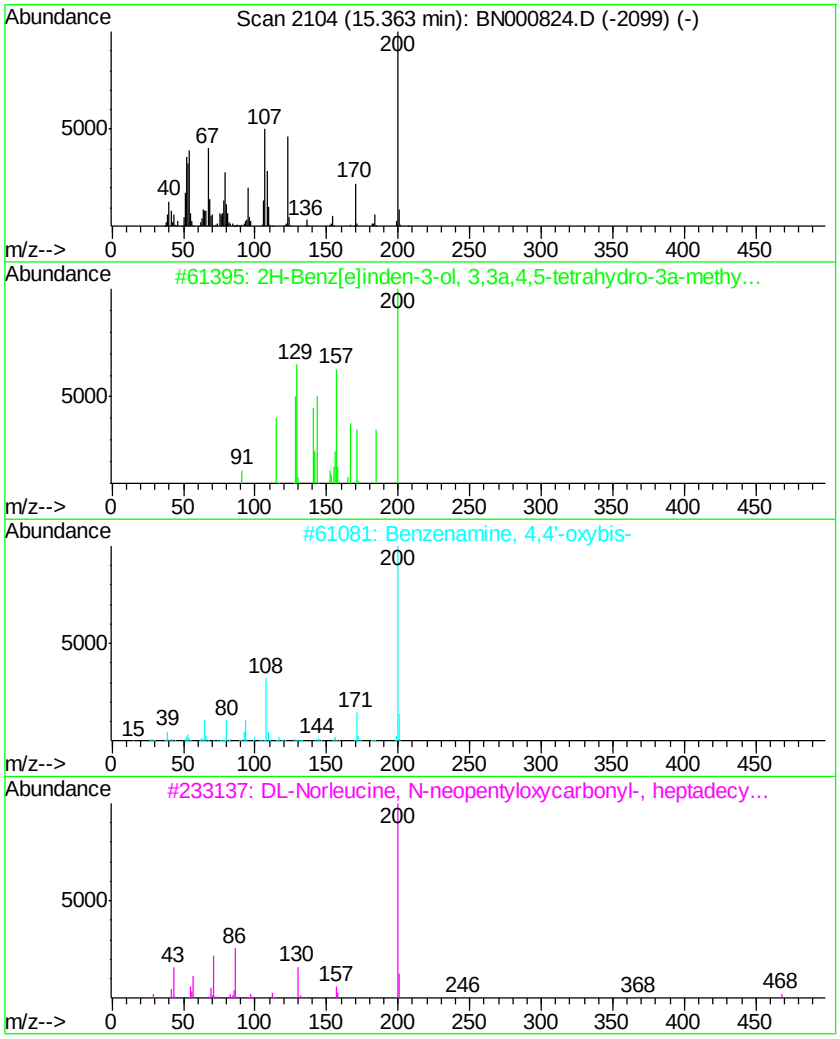
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

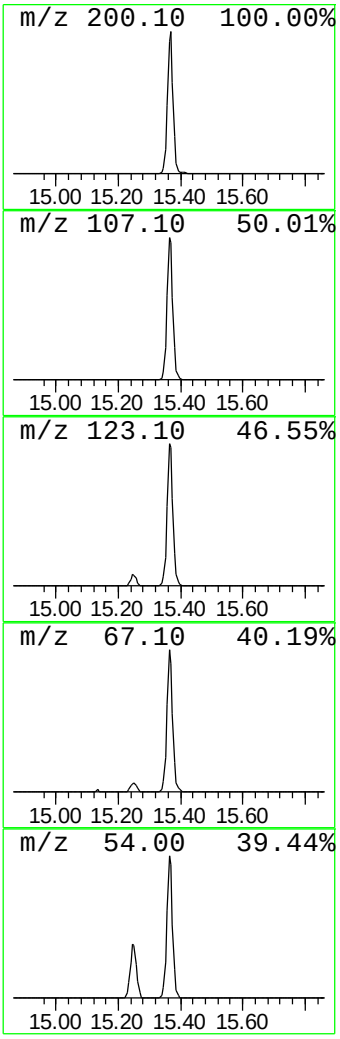
**********

Peak Number 8 unknown-05 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.36 | 8.71 ng/ul | 538833 | Acenaphthene-d10 | 14.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2H-Benz[e]inden-3-ol, 3,3a,4,5-t... | 200 | C14H16O | 071805-91-9 | 22 |
| 2 | Benzenamine, 4,4'-oxybis- | 200 | C12H12N2O | 000101-80-4 | 10 |
| 3 | DL-Norleucine, N-neopentyloxycar... | 483 | C29H57NO4 | 1000339-05-9 | 9 |
| 4 | 2,3-Dihydro-6-isopropyl-1,2,4-tr... | 200 | C6H8N4S2 | 014778-89-3 | 9 |
| 5 | Benzene, 1-methoxy-4-phenoxy- | 200 | C13H12O2 | 001655-69-2 | 9 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_N\DATA\BN042318\
Data File : BN000824.D
Acq On : 23 Apr 2018 12:35
Operator : JU/SJ
Sample : J2467-02
Misc :
ALS Vial : 5 Sample Multiplier: 1

**Instrument :** BNA_N
**ClientSampleId :** A3XT8

Quant Method : Z:\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041918-PAH.M
Quant Title : SVOA CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Hexanoic acid, 4-... | 6.80 | 5.7 | ng/ul | 200462 | 1 | 7.62 | 701647 | 20.0 |
| unknown-01 | 7.16 | 19.9 | ng/ul | 698035 | 1 | 7.62 | 701647 | 20.0 |
| unknown-02 | 8.32 | 15.8 | ng/ul | 554280 | 1 | 7.62 | 701647 | 20.0 |
| unknown-03 | 9.48 | 12.3 | ng/ul | 622842 | 2 | 10.39 | 1014630 | 20.0 |
| unknown-04 | 13.67 | 22.0 | ng/ul | 1361150 | 3 | 14.25 | 1236640 | 20.0 |
| unknown-05 | 15.36 | 8.7 | ng/ul | 538833 | 3 | 14.25 | 1236640 | 20.0 |