LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM090119\
Data File : BM022479.D
Acq On : 01 Sep 2019 16:21
Operator : HP/JU
Sample : K4619-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP4-COMP

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % 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:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.128 | 359 | 364 | 376 | rBV | 215086 | 334918 | 29.58% | 6.536% |
| 2 | 6.705 | 627 | 632 | 647 | rBV | 195032 | 358972 | 31.71% | 7.005% |
| 3 | 7.046 | 684 | 690 | 705 | rBB | 233778 | 388618 | 34.33% | 7.584% |
| 4 | 7.504 | 763 | 768 | 775 | rBB2 | 45357 | 66463 | 5.87% | 1.297% |
| 5 | 7.816 | 815 | 821 | 830 | rBB | 183973 | 294328 | 26.00% | 5.744% |
| 6 | 8.681 | 963 | 968 | 990 | rBV | 95069 | 209640 | 18.52% | 4.091% |
| 7 | 10.287 | 1235 | 1241 | 1258 | rBB | 35327 | 73154 | 6.46% | 1.428% |
| 8 | 12.775 | 1658 | 1664 | 1680 | rBV | 271141 | 445709 | 39.37% | 8.698% |
| 9 | 13.663 | 1810 | 1815 | 1824 | rBB | 16079 | 24354 | 2.15% | 0.475% |
| 10 | 14.175 | 1897 | 1902 | 1912 | rBB2 | 62435 | 99974 | 8.83% | 1.951% |
| 11 | 15.686 | 2154 | 2159 | 2175 | rBV | 298157 | 487916 | 43.10% | 9.522% |
| 12 | 16.945 | 2368 | 2373 | 2387 | rBV2 | 74686 | 130219 | 11.50% | 2.541% |
| 13 | 17.833 | 2519 | 2524 | 2535 | rBV3 | 45599 | 82467 | 7.28% | 1.609% |
| 14 | 19.021 | 2721 | 2726 | 2731 | rBV2 | 8906 | 14489 | 1.28% | 0.283% |
| 15 | 19.127 | 2739 | 2744 | 2752 | rBV3 | 43544 | 85144 | 7.52% | 1.662% |
| 16 | 19.392 | 2784 | 2789 | 2793 | rBV | 9270 | 14098 | 1.25% | 0.275% |
| 17 | 19.580 | 2816 | 2821 | 2831 | rBV | 928068 | 1132141 | 100.00% | 22.093% |
| 18 | 20.851 | 3033 | 3037 | 3046 | rVB4 | 41376 | 67589 | 5.97% | 1.319% |
| 19 | 20.945 | 3050 | 3053 | 3058 | rVV | 11297 | 15358 | 1.36% | 0.300% |
| 20 | 21.157 | 3085 | 3089 | 3102 | rBV2 | 177625 | 272012 | 24.03% | 5.308% |
| 21 | 21.280 | 3107 | 3110 | 3114 | rBV4 | 15923 | 16704 | 1.48% | 0.326% |
| 22 | 21.704 | 3179 | 3182 | 3186 | rBV2 | 22791 | 23187 | 2.05% | 0.452% |
| 23 | 22.145 | 3254 | 3257 | 3261 | rVB2 | 34420 | 40096 | 3.54% | 0.782% |
| 24 | 22.627 | 3336 | 3339 | 3344 | rVB2 | 42767 | 54063 | 4.78% | 1.055% |
| 25 | 23.162 | 3427 | 3430 | 3435 | rVB | 40509 | 55769 | 4.93% | 1.088% |
| 26 | 23.345 | 3455 | 3461 | 3470 | rBV2 | 140327 | 286351 | 25.29% | 5.588% |
| 27 | 23.768 | 3530 | 3533 | 3539 | rVB3 | 31215 | 50615 | 4.47% | 0.988% |

Sum of corrected areas: 5124348

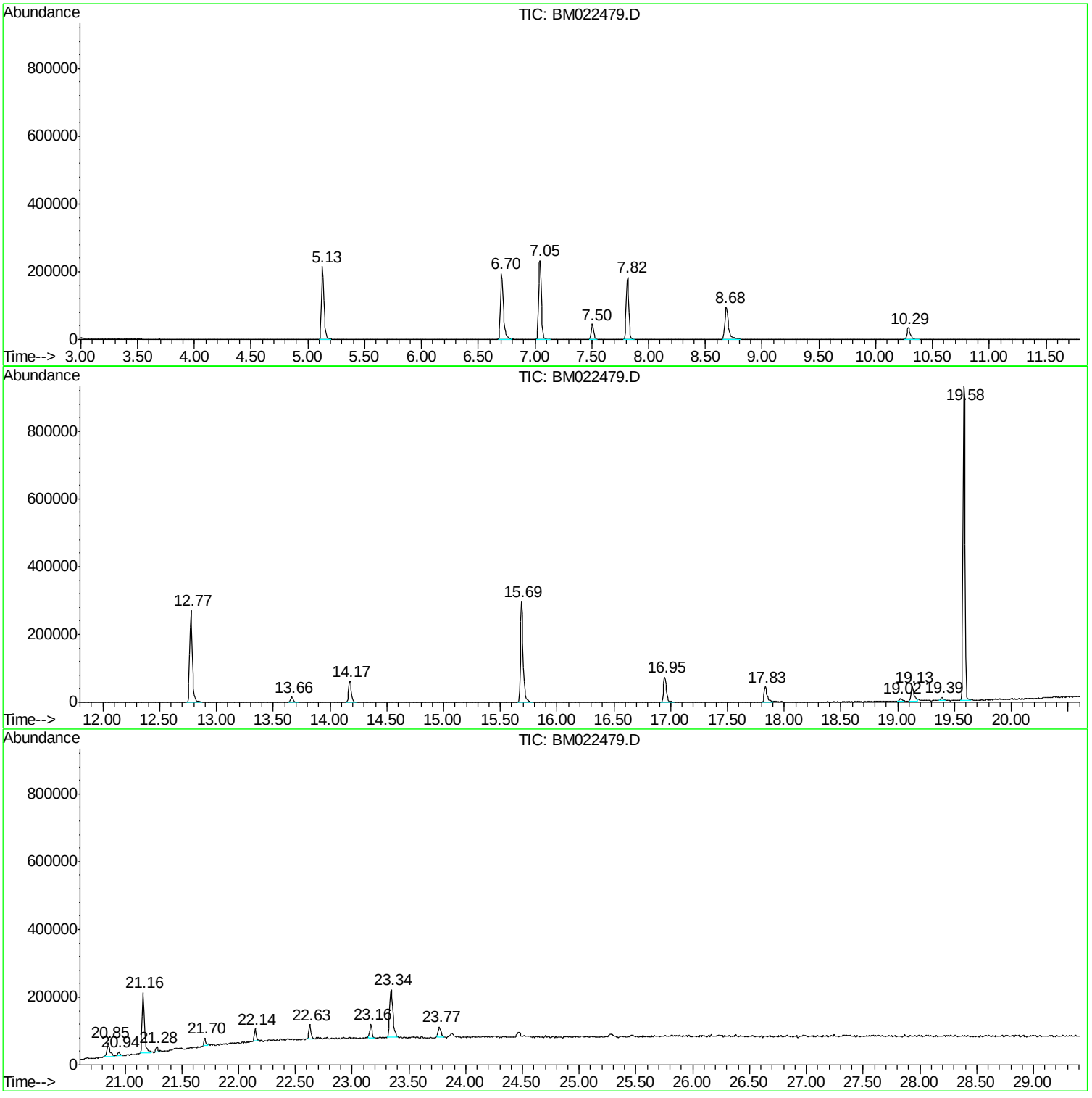
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM090119\
Data File : BM022479.D
Acq On : 01 Sep 2019 16:21
Operator : HP/JU
Sample : K4619-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP4-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM090119\
Data File : BM022479.D
Acq On : 01 Sep 2019 16:21
Operator : HP/JU
Sample : K4619-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP4-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

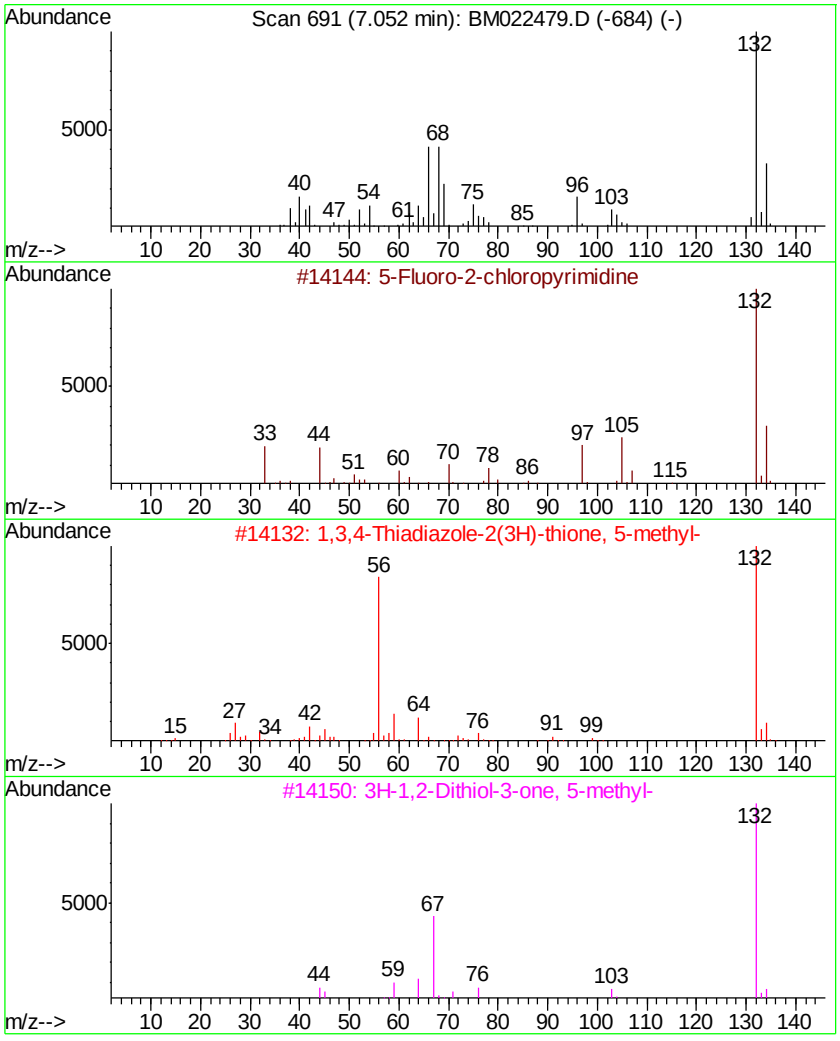
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

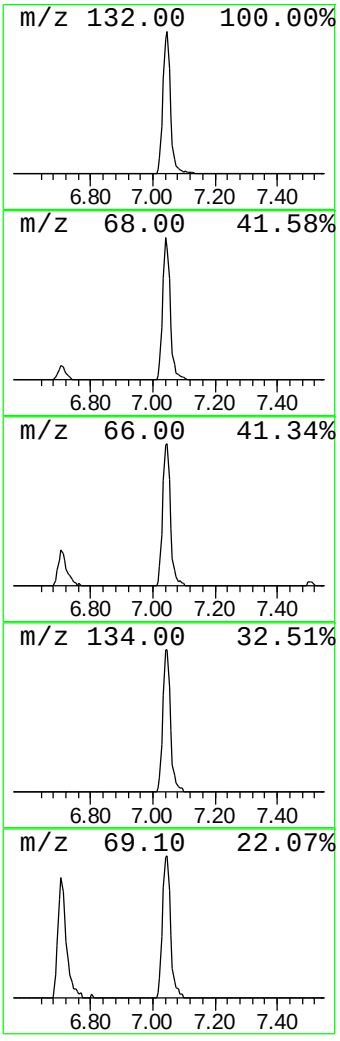
**********

Peak Number 1 unknown7.05 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.05 | 116.94 ng | 388618 | 1,4-Dichlorobenzene-d4 | 7.50 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 14 |
| 2 | 1,3,4-Thiadiazole-2(3H)-thione, ... | 132 | C3H4N2S2 | 029490-19-5 | 14 |
| 3 | 3H-1,2-Dithiol-3-one, 5-methyl- | 132 | C4H4OS2 | 003620-08-4 | 14 |
| 4 | 1,3-Cyclopentanedione, 2-chloro- | 132 | C5H5ClO2 | 014203-19-1 | 12 |
| 5 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 10 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM090119\
Data File : BM022479.D
Acq On : 01 Sep 2019 16:21
Operator : HP/JU
Sample : K4619-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP4-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

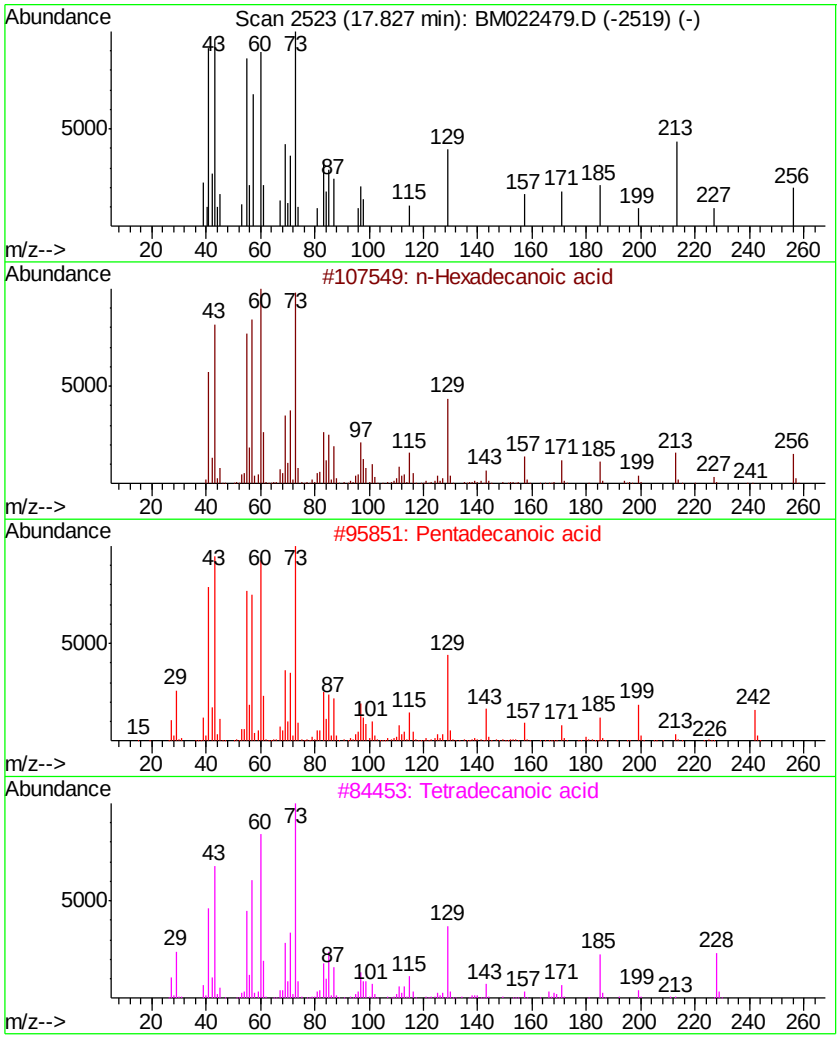
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

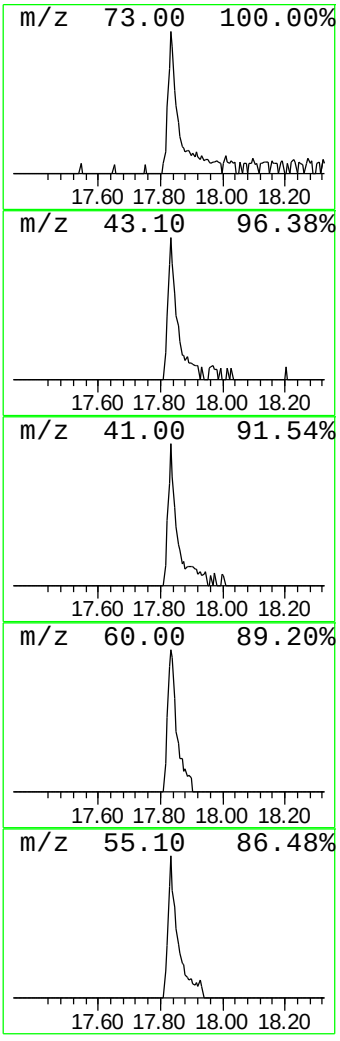
**********

Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.83 | 12.67 ng | 82467 | Phenanthrene-d10 | 16.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 95 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 70 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 58 |
| 4 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 50 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 47 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM090119\
Data File : BM022479.D
Acq On : 01 Sep 2019 16:21
Operator : HP/JU
Sample : K4619-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP4-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

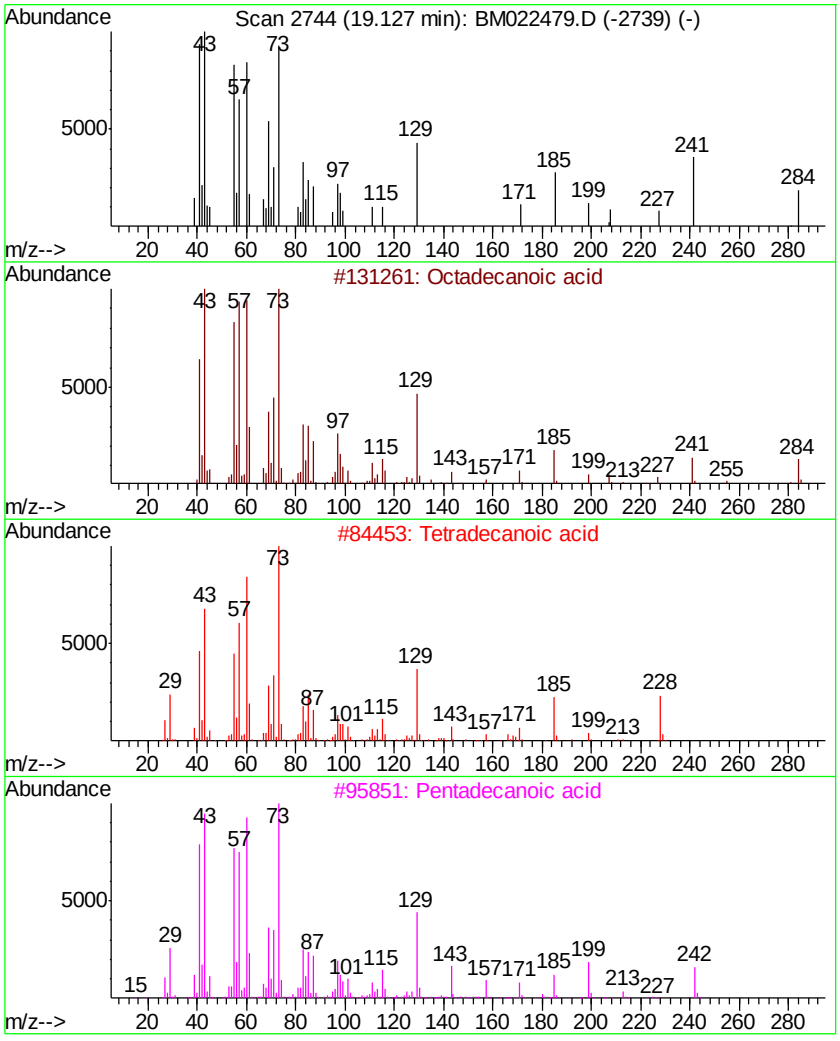
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

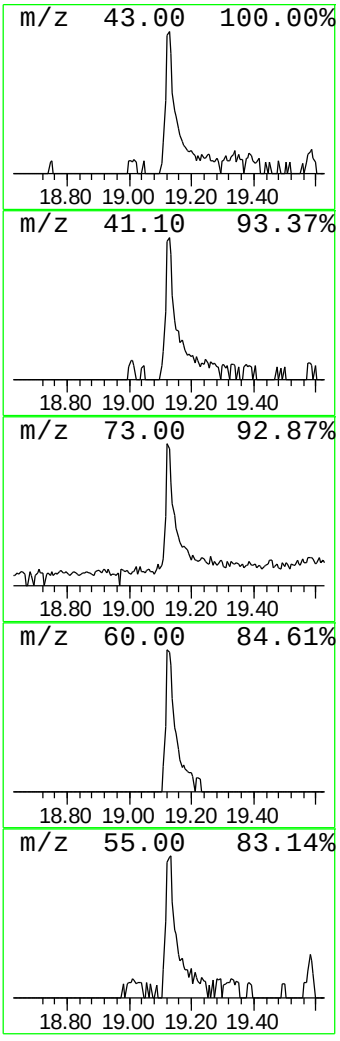
**********

Peak Number 4 Octadecanoic acid Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.13 | 6.26 ng | 85144 | Chrysene-d12 | 21.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 83 |
| 2 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 72 |
| 3 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 64 |
| 4 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 59 |
| 5 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 50 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM090119\
Data File : BM022479.D
Acq On : 01 Sep 2019 16:21
Operator : HP/JU
Sample : K4619-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP4-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

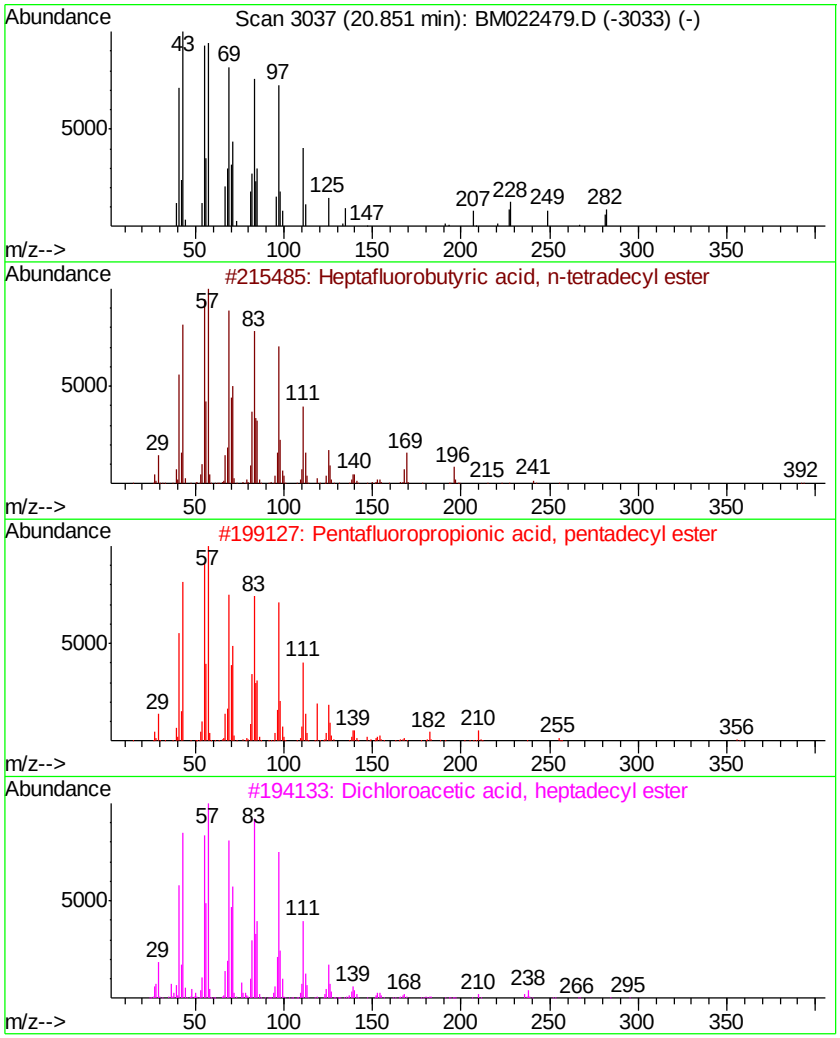
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

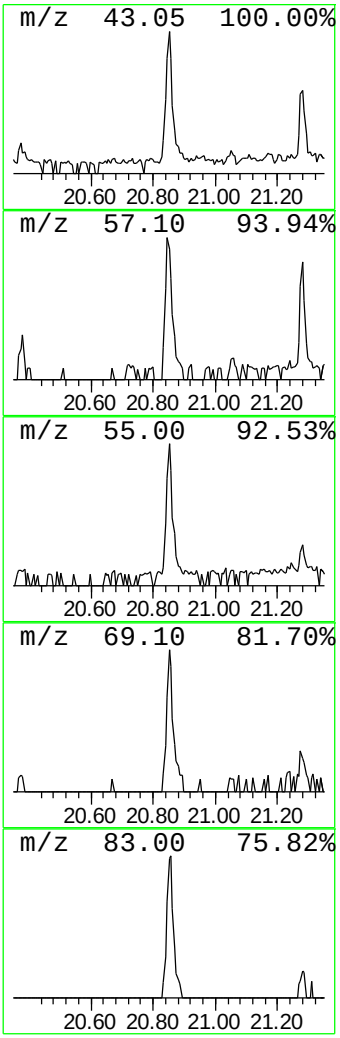
**********

Peak Number 5 Heptafluorobutyric acid, n-... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.85 | 4.97 ng | 67589 | Chrysene-d12 | 21.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptafluorobutyric acid, n-tetra... | 410 | C18H29F7O2 | 007365-36-8 | 94 |
| 2 | Pentafluoropropionic acid, penta... | 374 | C18H31F5O2 | 959092-08-1 | 94 |
| 3 | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 94 |
| 4 | Pentafluoropropionic acid, tetra... | 360 | C17H29F5O2 | 006222-06-6 | 94 |
| 5 | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM090119\
Data File : BM022479.D
Acq On : 01 Sep 2019 16:21
Operator : HP/JU
Sample : K4619-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP4-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

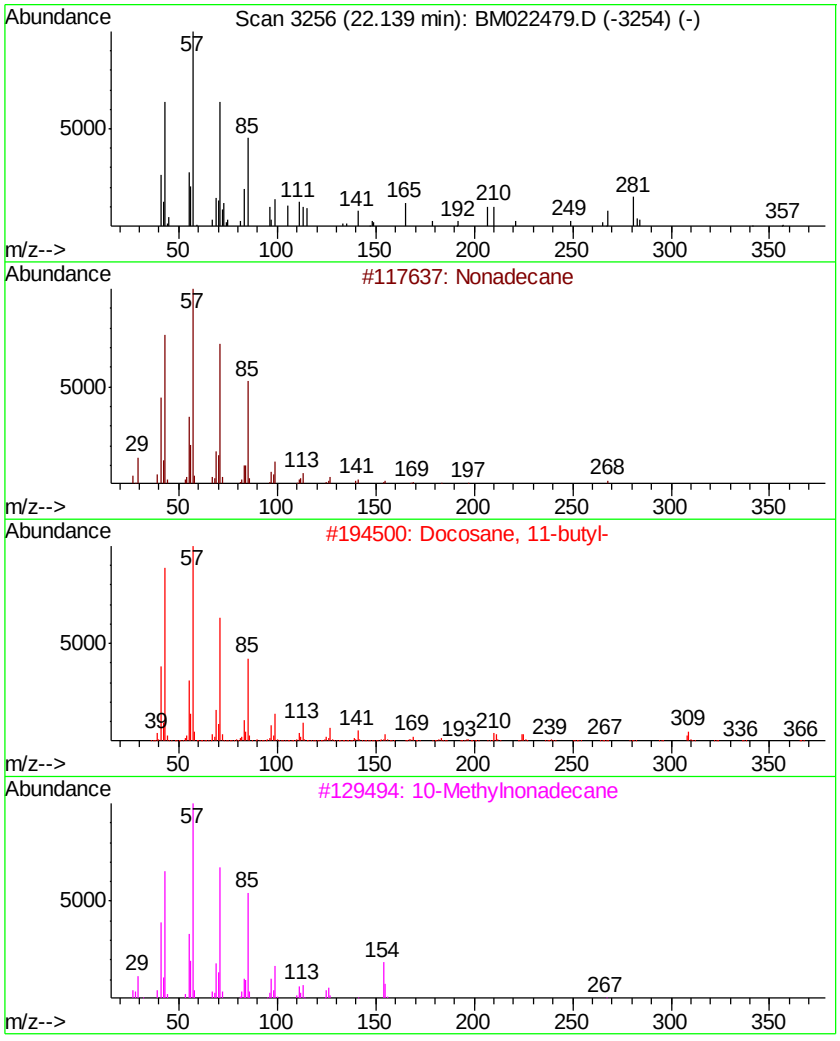
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

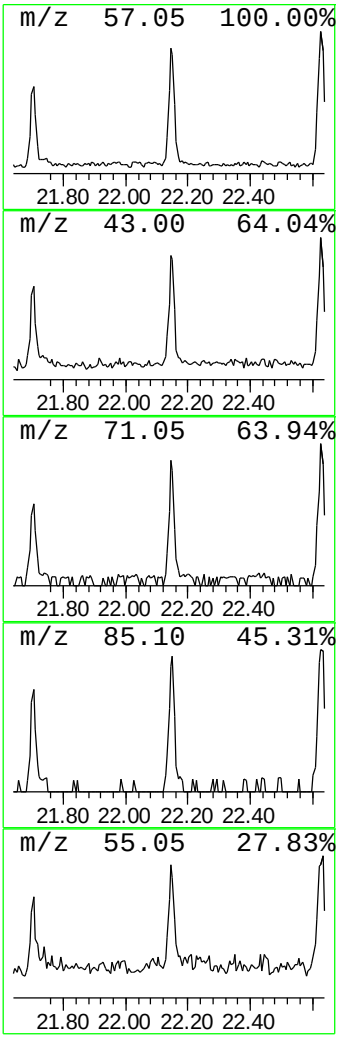
**********

Peak Number 6 Nonadecane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.14 | 2.95 ng | 40096 | Chrysene-d12 | 21.16 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonadecane | 268 | C19H40 | 000629-92-5 | 94 |
| 2 | Docosane, 11-butyl- | 366 | C26H54 | 013475-76-8 | 83 |
| 3 | 10-Methylnonadecane | 282 | C20H42 | 056862-62-5 | 83 |
| 4 | Heptacosane | 380 | C27H56 | 000593-49-7 | 83 |
| 5 | Hexacosane | 366 | C26H54 | 000630-01-3 | 83 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM090119\
Data File : BM022479.D
Acq On : 01 Sep 2019 16:21
Operator : HP/JU
Sample : K4619-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP4-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

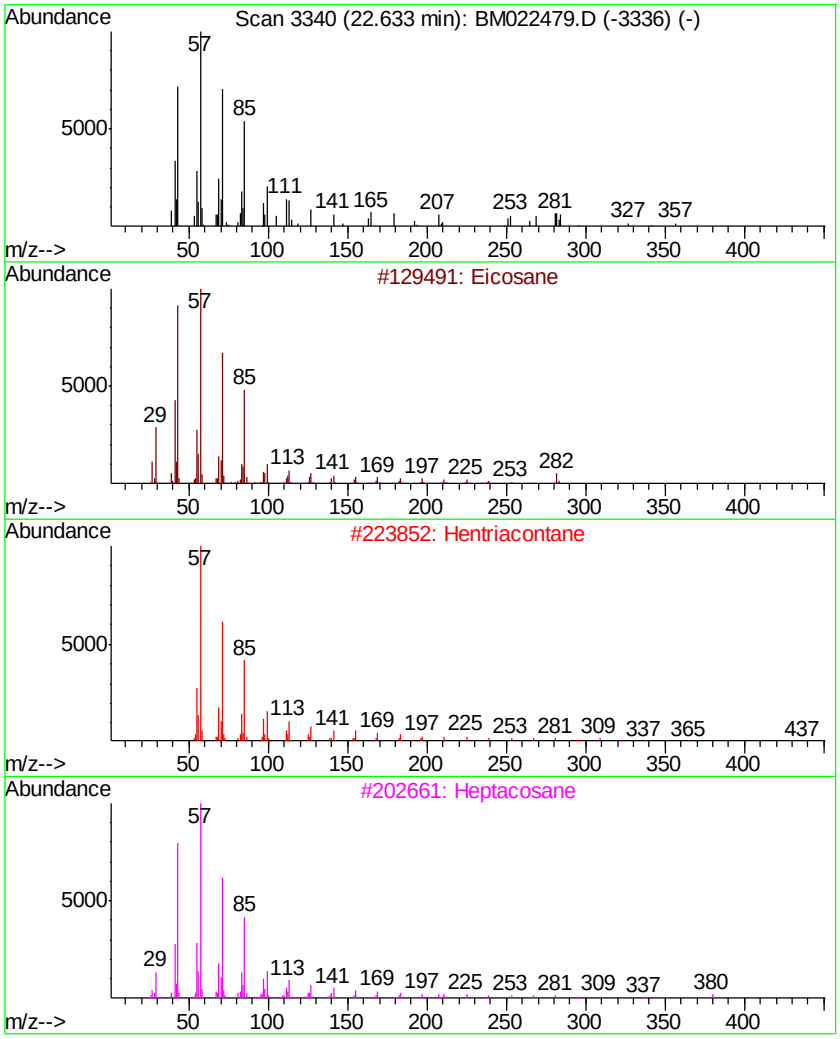
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

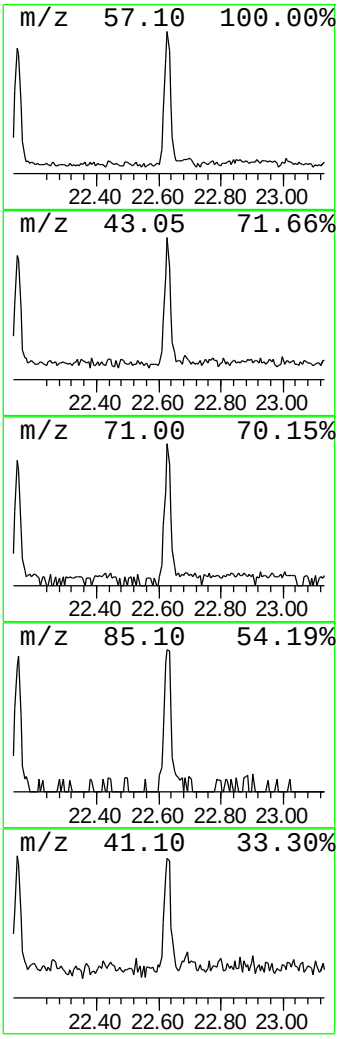
**********

Peak Number 7 Eicosane Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 22.63 | 3.78 ng | 54063 | Perylene-d12 | 23.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 93 |
| 2 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 90 |
| 3 | Heptacosane | 380 | C27H56 | 000593-49-7 | 90 |
| 4 | Nonadecane | 268 | C19H40 | 000629-92-5 | 87 |
| 5 | Hexatriacontane | 507 | C36H74 | 000630-06-8 | 87 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM090119\
Data File : BM022479.D
Acq On : 01 Sep 2019 16:21
Operator : HP/JU
Sample : K4619-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP4-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

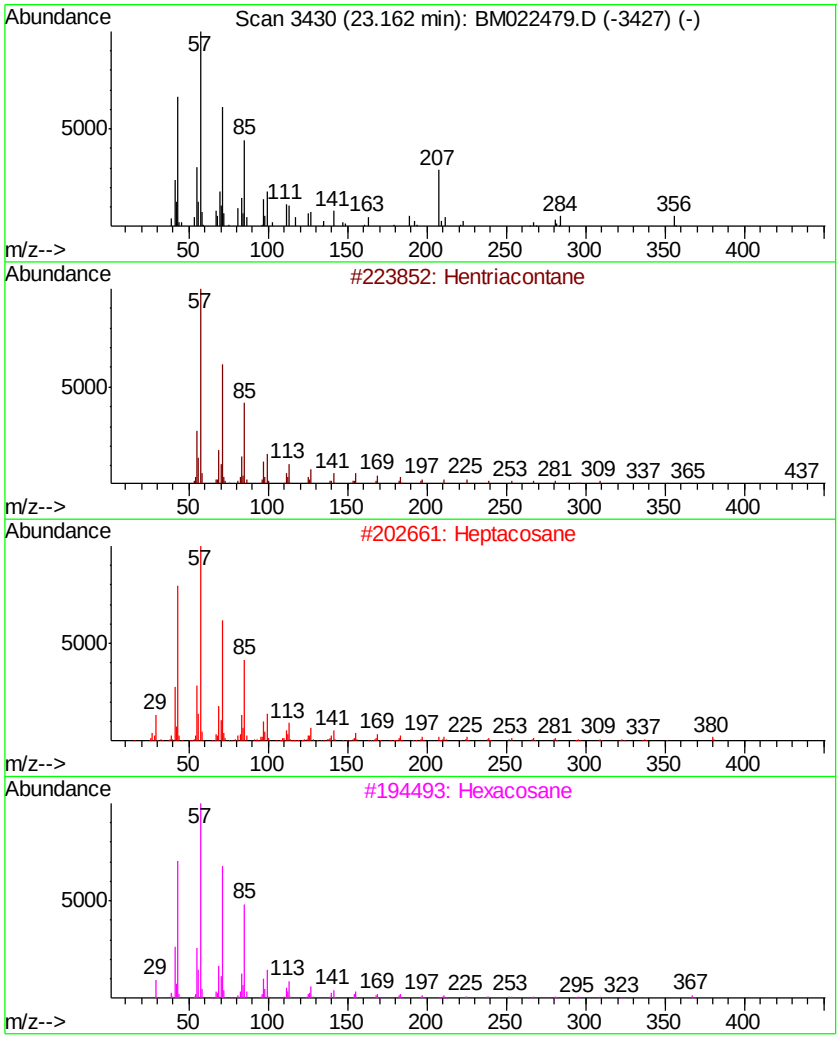
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

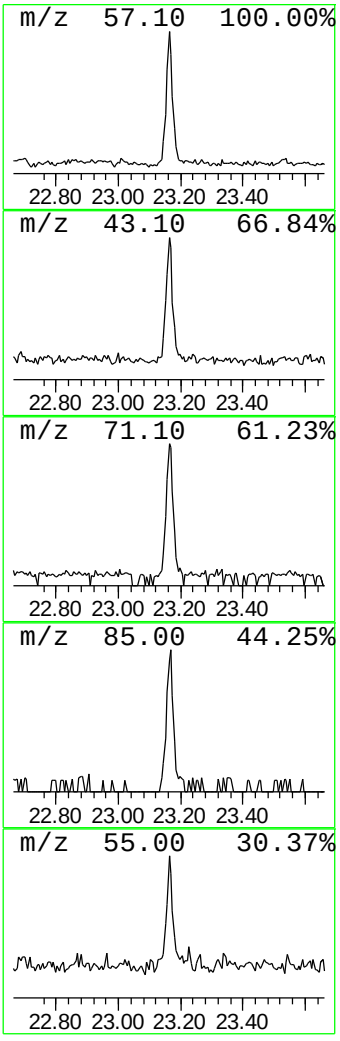
**********

Peak Number 8 Hentriacontane Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.16 | 3.90 ng | 55769 | Perylene-d12 | 23.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 81 |
| 2 | Heptacosane | 380 | C27H56 | 000593-49-7 | 68 |
| 3 | Hexacosane | 366 | C26H54 | 000630-01-3 | 68 |
| 4 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 68 |
| 5 | Tetracosane | 338 | C24H50 | 000646-31-1 | 68 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM090119\
Data File : BM022479.D
Acq On : 01 Sep 2019 16:21
Operator : HP/JU
Sample : K4619-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP4-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

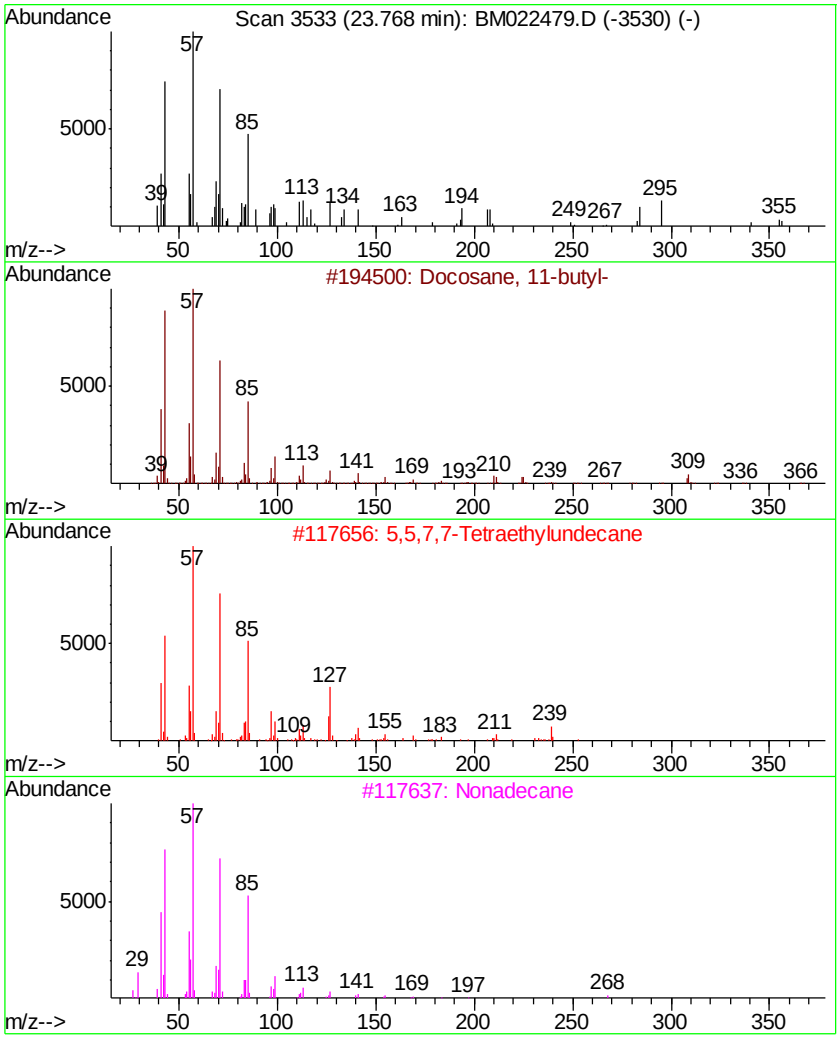
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

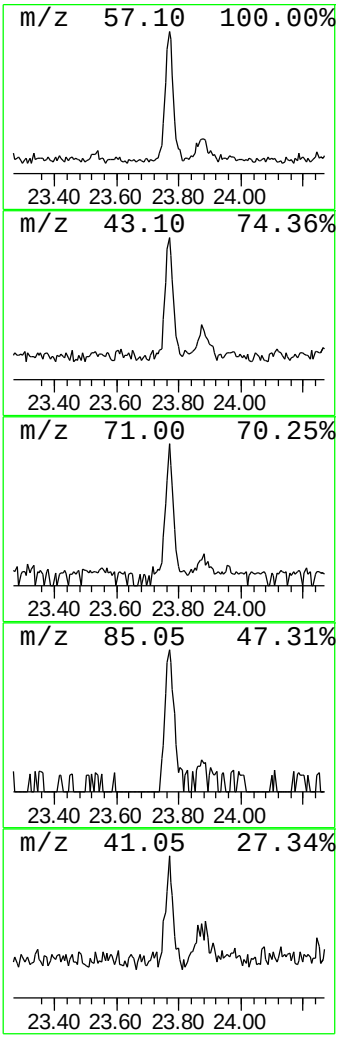
**********

Peak Number 9 Docosane, 11-butyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.77 | 3.54 ng | 50615 | Perylene-d12 | 23.34 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Docosane, 11-butyl- | 366 | C26H54 | 013475-76-8 | 53 |
| 2 | 5,5,7,7-Tetraethylundecane | 268 | C19H40 | 1000360-42-0 | 50 |
| 3 | Nonadecane | 268 | C19H40 | 000629-92-5 | 49 |
| 4 | Dodecane | 170 | C12H26 | 000112-40-3 | 47 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 47 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM090119\
Data File : BM022479.D
Acq On : 01 Sep 2019 16:21
Operator : HP/JU
Sample : K4619-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** TP4-COMP

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\8270-BM082919.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT 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 |
| unknown7.05 | 7.05 | 116.9 | ng | 388618 | 1 | 7.50 | 66463 | 20.0 |
| n-Hexadecanoic acid | 17.83 | 12.7 | ng | 82467 | 4 | 16.95 | 130219 | 20.0 |
| Octadecanoic acid | 19.13 | 6.3 | ng | 85144 | 5 | 21.16 | 272012 | 20.0 |
| Heptafluorobutyri... | 20.85 | 5.0 | ng | 67589 | 5 | 21.16 | 272012 | 20.0 |
| Nonadecane | 22.14 | 3.0 | ng | 40096 | 5 | 21.16 | 272012 | 20.0 |
| Eicosane | 22.63 | 3.8 | ng | 54063 | 6 | 23.34 | 286351 | 20.0 |
| Hentriacontane | 23.16 | 3.9 | ng | 55769 | 6 | 23.34 | 286351 | 20.0 |
| Docosane, 11-butyl- | 23.77 | 3.5 | ng | 50615 | 6 | 23.34 | 286351 | 20.0 |