

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111319\  
 Data File : BN008565.D  
 Acq On : 14 Nov 2019 20:19  
 Operator : JU  
 Sample : K5656-07  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A5455

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0.1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN111319MA.M  
 Title : SVOA CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 3.222       | 36            | 40          | 46           | rVB      | 104385         | 134870        | 1.53%           | 0.132%        |
| 2         | 3.846       | 143           | 146         | 151          | rVB3     | 17353          | 25600         | 0.29%           | 0.025%        |
| 3         | 3.934       | 156           | 161         | 166          | rBV2     | 26055          | 38473         | 0.44%           | 0.038%        |
| 4         | 6.340       | 565           | 570         | 572          | rVB5     | 5682           | 9124          | 0.10%           | 0.009%        |
| 5         | 6.816       | 643           | 651         | 662          | rBV2     | 374385         | 670584        | 7.63%           | 0.656%        |
| 6         | 6.975       | 671           | 678         | 690          | rBV      | 936116         | 1504031       | 17.10%          | 1.472%        |
| 7         | 7.175       | 705           | 712         | 723          | rVB      | 1162478        | 1826869       | 20.77%          | 1.788%        |
| 8         | 7.634       | 784           | 790         | 798          | rVB      | 2166781        | 3366474       | 38.28%          | 3.295%        |
| 9         | 7.716       | 798           | 804         | 810          | rBV4     | 12197          | 22570         | 0.26%           | 0.022%        |
| 10        | 8.334       | 903           | 909         | 918          | rBV      | 930600         | 1495929       | 17.01%          | 1.464%        |
| 11        | 8.769       | 976           | 983         | 992          | rBV      | 1334981        | 2168253       | 24.66%          | 2.122%        |
| 12        | 9.263       | 1063          | 1067        | 1075         | rVB2     | 16600          | 29381         | 0.33%           | 0.029%        |
| 13        | 9.487       | 1097          | 1105        | 1114         | rBV      | 1126959        | 1797841       | 20.44%          | 1.759%        |
| 14        | 10.022      | 1188          | 1196        | 1205         | rBV      | 1652022        | 2719128       | 30.92%          | 2.661%        |
| 15        | 10.399      | 1250          | 1260        | 1270         | rBV      | 3063092        | 4953128       | 56.33%          | 4.847%        |
| 16        | 10.528      | 1275          | 1282        | 1289         | rBV2     | 100749         | 179750        | 2.04%           | 0.176%        |
| 17        | 11.040      | 1364          | 1369        | 1375         | rVB5     | 11590          | 22008         | 0.25%           | 0.022%        |
| 18        | 11.110      | 1375          | 1381        | 1385         | rBV6     | 6342           | 12289         | 0.14%           | 0.012%        |
| 19        | 11.204      | 1394          | 1397        | 1401         | rBV4     | 6024           | 11443         | 0.13%           | 0.011%        |
| 20        | 11.993      | 1525          | 1531        | 1536         | rBV3     | 28943          | 46660         | 0.53%           | 0.046%        |
| 21        | 12.210      | 1563          | 1568        | 1572         | rBV5     | 5913           | 8941          | 0.10%           | 0.009%        |
| 22        | 12.622      | 1632          | 1638        | 1643         | rBV8     | 7159           | 13432         | 0.15%           | 0.013%        |
| 23        | 13.675      | 1811          | 1817        | 1822         | rBV      | 3102666        | 4222669       | 48.02%          | 4.132%        |
| 24        | 13.722      | 1822          | 1825        | 1833         | rVB      | 248397         | 330138        | 3.75%           | 0.323%        |
| 25        | 13.822      | 1837          | 1842        | 1846         | rVB2     | 49570          | 62824         | 0.71%           | 0.061%        |
| 26        | 13.945      | 1856          | 1863        | 1873         | rBV      | 3289847        | 4946753       | 56.25%          | 4.841%        |
| 27        | 14.198      | 1903          | 1906        | 1909         | rBV4     | 8238           | 10005         | 0.11%           | 0.010%        |
| 28        | 14.257      | 1909          | 1916        | 1923         | rVV      | 4586770        | 6736156       | 76.60%          | 6.592%        |
| 29        | 14.316      | 1923          | 1926        | 1933         | rVB2     | 23050          | 30529         | 0.35%           | 0.030%        |
| 30        | 14.451      | 1944          | 1949        | 1956         | rBV      | 404509         | 603046        | 6.86%           | 0.590%        |
| 31        | 14.687      | 1984          | 1989        | 1995         | rVB7     | 23398          | 40076         | 0.46%           | 0.039%        |
| 32        | 15.092      | 2053          | 2058        | 2062         | rBV6     | 11140          | 15623         | 0.18%           | 0.015%        |
| 33        | 15.157      | 2065          | 2069        | 2072         | rVV4     | 14266          | 15668         | 0.18%           | 0.015%        |
| 34        | 15.257      | 2079          | 2086        | 2093         | rVB      | 4248563        | 6143910       | 69.87%          | 6.013%        |

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111319\  
 Data File : BN008565.D  
 Acq On : 14 Nov 2019 20:19  
 Operator : JU  
 Sample : K5656-07  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 A5455

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0.1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN111319MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 15.369 | 2099 | 2105 | 2121 | rBV  | 1486514 | 2023609 | 23.01%  | 1.980% |
| 36 | 15.492 | 2121 | 2126 | 2132 | rVB  | 59230   | 93635   | 1.06%   | 0.092% |
| 37 | 15.828 | 2179 | 2183 | 2187 | rVB7 | 9573    | 17716   | 0.20%   | 0.017% |
| 38 | 15.951 | 2201 | 2204 | 2209 | rVB6 | 6385    | 13195   | 0.15%   | 0.013% |
| 39 | 16.016 | 2212 | 2215 | 2216 | rBV3 | 12659   | 12589   | 0.14%   | 0.012% |
| 40 | 16.034 | 2216 | 2218 | 2224 | rVB6 | 17676   | 29791   | 0.34%   | 0.029% |
| 41 | 16.110 | 2229 | 2231 | 2234 | rVV4 | 7454    | 9105    | 0.10%   | 0.009% |
| 42 | 16.181 | 2238 | 2243 | 2246 | rBV6 | 6938    | 12561   | 0.14%   | 0.012% |
| 43 | 16.281 | 2257 | 2260 | 2264 | rVB6 | 6745    | 10178   | 0.12%   | 0.010% |
| 44 | 16.404 | 2277 | 2281 | 2284 | rBV5 | 12792   | 16483   | 0.19%   | 0.016% |
| 45 | 16.681 | 2325 | 2328 | 2330 | rBV4 | 8672    | 11371   | 0.13%   | 0.011% |
| 46 | 16.792 | 2342 | 2347 | 2348 | rBV2 | 25051   | 36093   | 0.41%   | 0.035% |
| 47 | 17.004 | 2375 | 2383 | 2390 | rVV  | 5411035 | 7846723 | 89.23%  | 7.679% |
| 48 | 17.098 | 2393 | 2399 | 2411 | rVV2 | 5382928 | 7597215 | 86.39%  | 7.435% |
| 49 | 17.204 | 2412 | 2417 | 2419 | rVV5 | 27145   | 38939   | 0.44%   | 0.038% |
| 50 | 17.233 | 2419 | 2422 | 2427 | rVV6 | 31073   | 51304   | 0.58%   | 0.050% |
| 51 | 17.316 | 2431 | 2436 | 2440 | rVB  | 102605  | 134328  | 1.53%   | 0.131% |
| 52 | 17.539 | 2472 | 2474 | 2479 | rVB5 | 6482    | 8905    | 0.10%   | 0.009% |
| 53 | 17.928 | 2536 | 2540 | 2543 | rBV3 | 51179   | 68879   | 0.78%   | 0.067% |
| 54 | 18.228 | 2585 | 2591 | 2596 | rVB9 | 21717   | 42394   | 0.48%   | 0.041% |
| 55 | 18.345 | 2608 | 2611 | 2613 | rBV4 | 10064   | 10525   | 0.12%   | 0.010% |
| 56 | 18.445 | 2626 | 2628 | 2631 | rVB4 | 11191   | 10390   | 0.12%   | 0.010% |
| 57 | 18.539 | 2642 | 2644 | 2648 | rVB2 | 16878   | 18535   | 0.21%   | 0.018% |
| 58 | 18.633 | 2658 | 2660 | 2662 | rBV2 | 9719    | 10597   | 0.12%   | 0.010% |
| 59 | 18.798 | 2684 | 2688 | 2691 | rBV5 | 19474   | 26928   | 0.31%   | 0.026% |
| 60 | 19.033 | 2723 | 2728 | 2731 | rBV2 | 72565   | 115156  | 1.31%   | 0.113% |
| 61 | 19.280 | 2766 | 2770 | 2775 | rBV  | 58119   | 87835   | 1.00%   | 0.086% |
| 62 | 19.398 | 2783 | 2790 | 2798 | rBV  | 6600103 | 8793638 | 100.00% | 8.606% |
| 63 | 19.951 | 2882 | 2884 | 2889 | rVB6 | 34195   | 38674   | 0.44%   | 0.038% |
| 64 | 20.945 | 3049 | 3053 | 3058 | rBV  | 1211618 | 1448385 | 16.47%  | 1.417% |
| 65 | 21.198 | 3090 | 3096 | 3101 | rBV  | 6564960 | 8187831 | 93.11%  | 8.013% |
| 66 | 21.398 | 3127 | 3130 | 3133 | rVB  | 175873  | 196534  | 2.23%   | 0.192% |
| 67 | 21.827 | 3200 | 3203 | 3208 | rVB2 | 338148  | 393797  | 4.48%   | 0.385% |
| 68 | 22.280 | 3277 | 3280 | 3284 | rVB  | 491859  | 572552  | 6.51%   | 0.560% |
| 69 | 22.774 | 3360 | 3364 | 3373 | rBV  | 638542  | 974723  | 11.08%  | 0.954% |
| 70 | 23.239 | 3436 | 3443 | 3451 | rVB  | 4502633 | 7927435 | 90.15%  | 7.758% |
| 71 | 23.333 | 3455 | 3459 | 3461 | rVV  | 782159  | 1162337 | 13.22%  | 1.138% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111319\  
Data File : BN008565.D  
Acq On : 14 Nov 2019 20:19  
Operator : JU  
Sample : K5656-07  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A5455

## Integration Parameters: LSCINT.P

Integrator: RTE  
Smoothing : OFF  
Sampling : 1  
Start Thrs: 0.2  
Stop Thrs : 0

Filtering: 5  
Min Area: 0.1 % of largest Peak  
Max Peaks: 100  
Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN111319MA.M  
Title : SVOA CALIBRATION

|    |        |      |      |      |     |         |         |        |        |
|----|--------|------|------|------|-----|---------|---------|--------|--------|
| 72 | 23.374 | 3461 | 3466 | 3473 | rVB | 4309378 | 7746384 | 88.09% | 7.581% |
| 73 | 23.963 | 3561 | 3566 | 3572 | rVB | 693528  | 1211832 | 13.78% | 1.186% |
| 74 | 24.686 | 3685 | 3689 | 3697 | rVB | 504493  | 959243  | 10.91% | 0.939% |

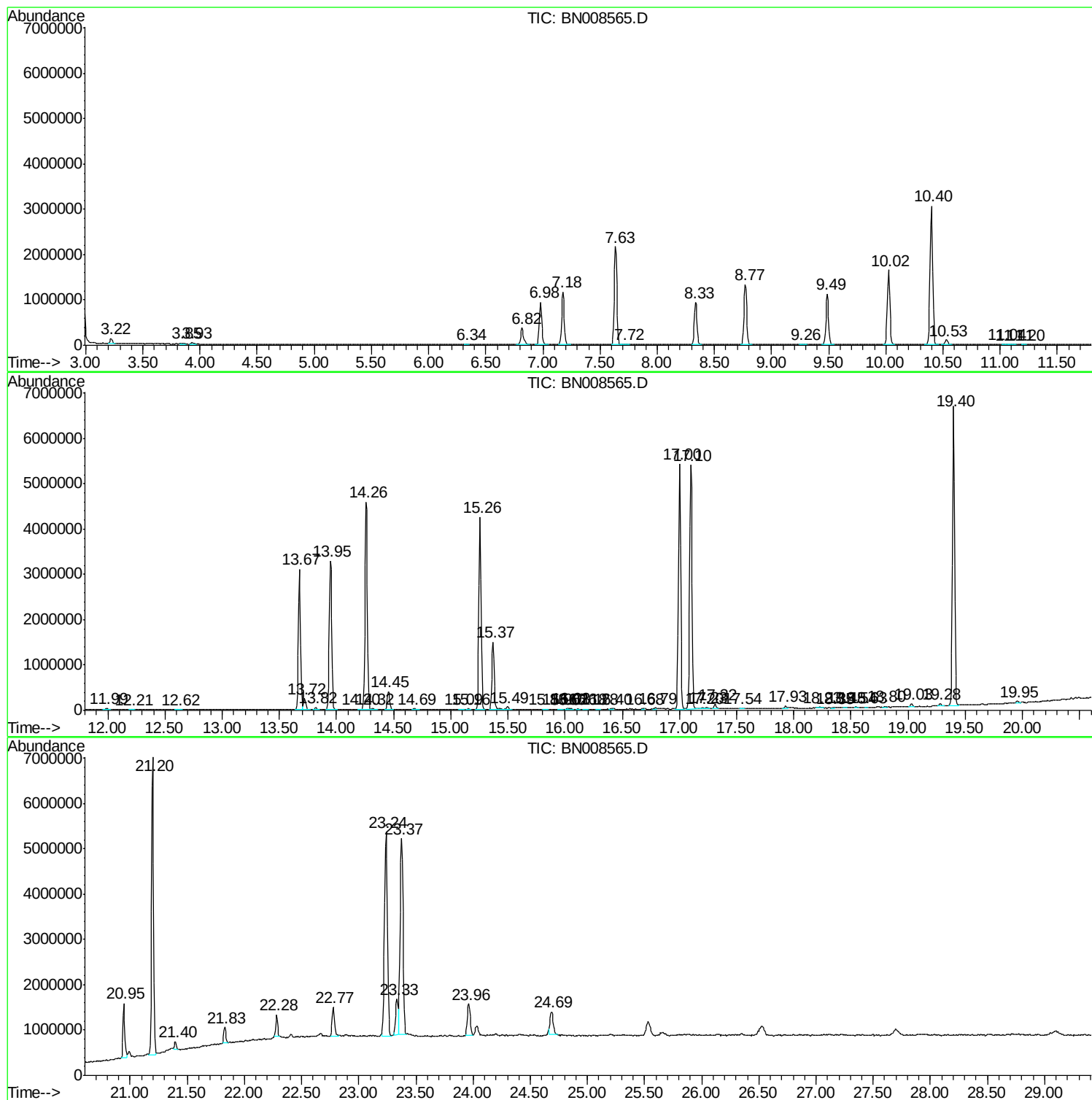
Sum of corrected areas: 102182519

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111319\  
Data File : BN008565.D  
Acq On : 14 Nov 2019 20:19  
Operator : JU  
Sample : K5656-07  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampled :  
A5455

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN111319MA.M  
Quant Title : SVOA CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111319\  
Data File : BN008565.D  
Acq On : 14 Nov 2019 20:19  
Operator : JU  
Sample : K5656-07  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

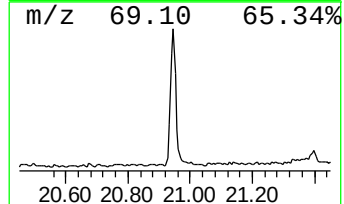
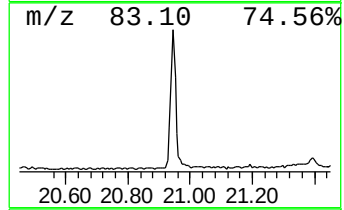
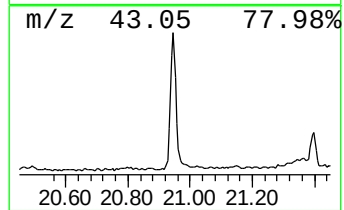
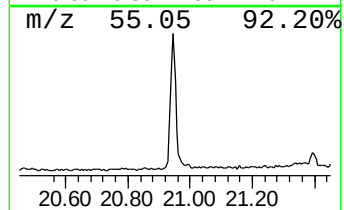
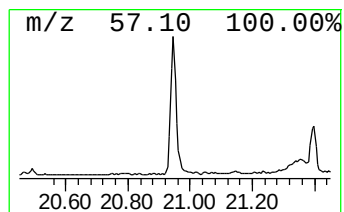
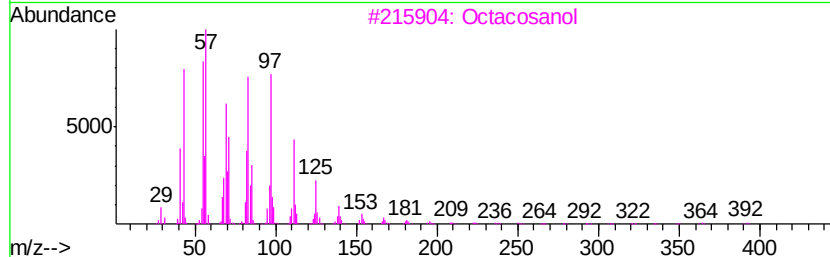
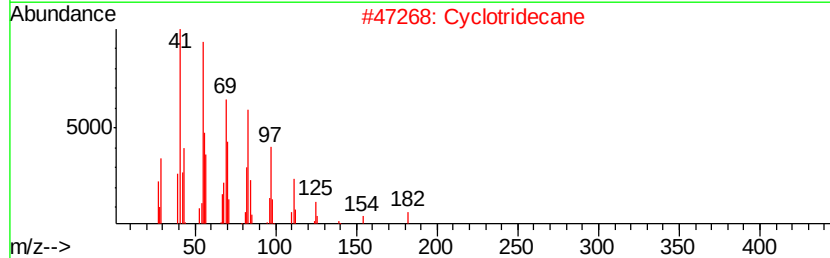
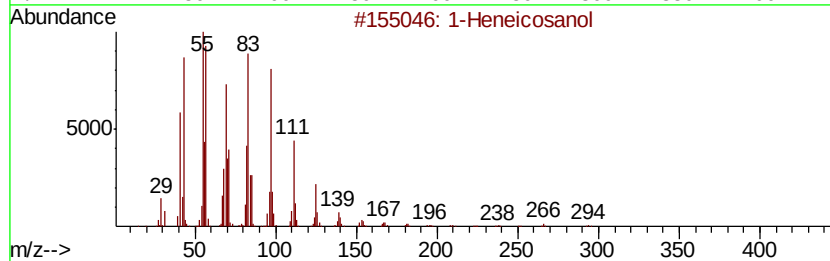
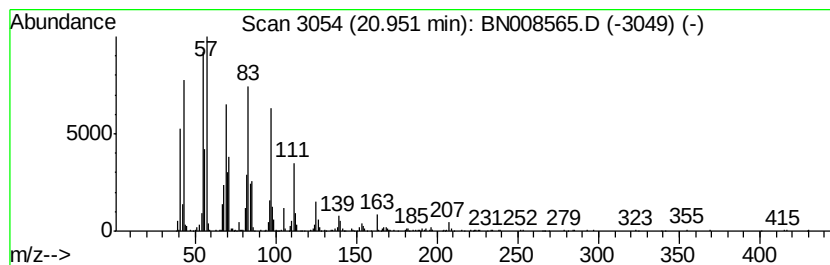
Instrument :  
BNA\_N  
ClientSampleId :  
A5455

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN111319MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 1-Heneicosanol Concentration Rank 1

| R.T.    | EstConc              | Area         | Relative to ISTD | R.T.      |
|---------|----------------------|--------------|------------------|-----------|
| 20.95   | 3.54 ng/ul           | 1448390      | Chrysene-d12     | 21.20     |
| Hit# of | 5                    | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | 1-Heneicosanol       | 312 C21H44O  | 015594-90-8      | 95        |
| 2       | Cyclotridecane       | 182 C13H26   | 000295-02-3      | 91        |
| 3       | Octacosanol          | 410 C28H58O  | 000557-61-9      | 91        |
| 4       | 10-Heneicosene (c,t) | 294 C21H42   | 095008-11-0      | 91        |
| 5       | 1-Tricosene          | 322 C23H46   | 018835-32-0      | 91        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111319\  
Data File : BN008565.D  
Acq On : 14 Nov 2019 20:19  
Operator : JU  
Sample : K5656-07  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A5455

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN111319MA.M  
Quant Title : SVOA CALIBRATION

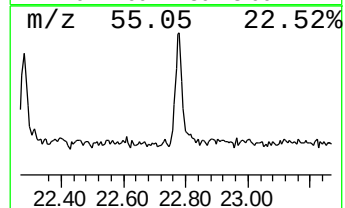
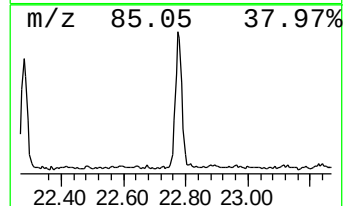
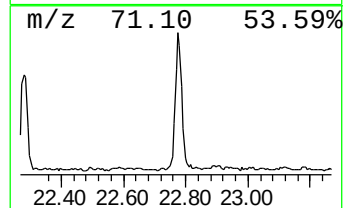
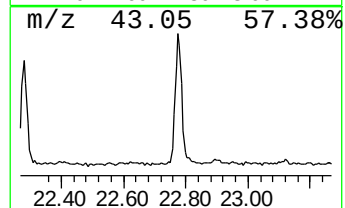
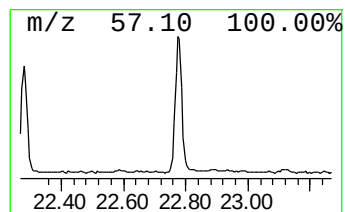
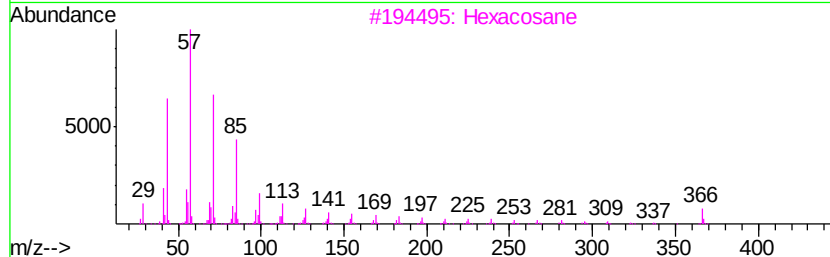
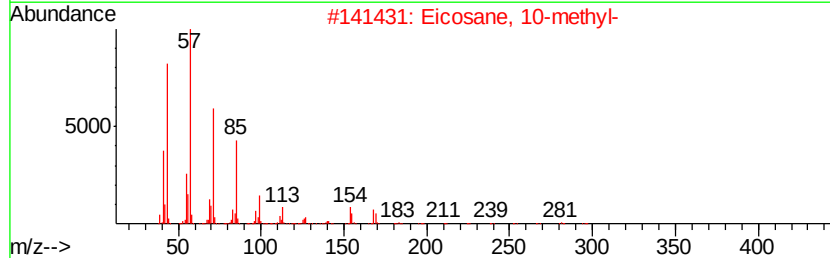
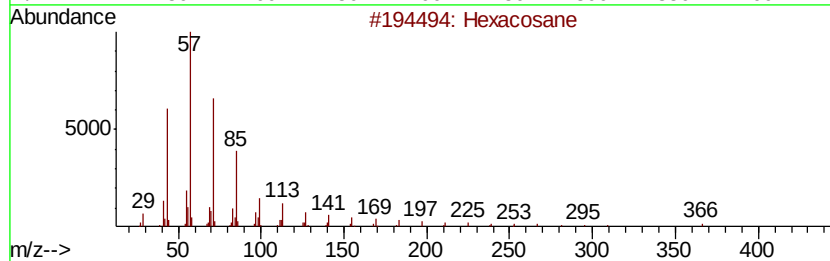
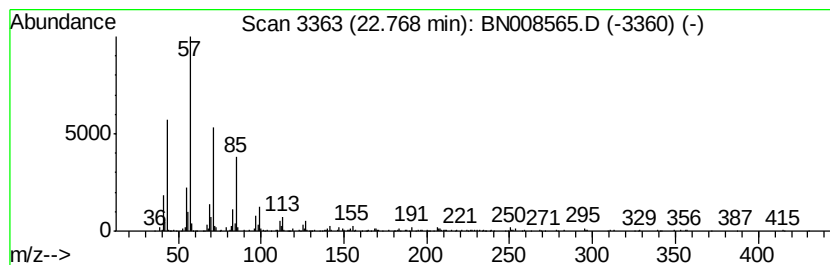
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.77 | 2.52 ng/ul | 974723 | Perylene-d12     | 23.37 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexacosane              | 366 | C26H54  | 000630-01-3 | 97   |
| 2    |    | Eicosane, 10-methyl-    | 296 | C21H44  | 054833-23-7 | 93   |
| 3    |    | Hexacosane              | 366 | C26H54  | 000630-01-3 | 90   |
| 4    |    | 1-Iodo-2-methylundecane | 296 | C12H25I | 073105-67-6 | 90   |
| 5    |    | Pentacosane             | 352 | C25H52  | 000629-99-2 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111319\  
Data File : BN008565.D  
Acq On : 14 Nov 2019 20:19  
Operator : JU  
Sample : K5656-07  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A5455

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN111319MA.M  
Quant Title : SVOA CALIBRATION

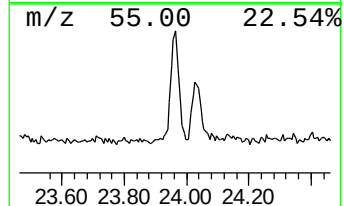
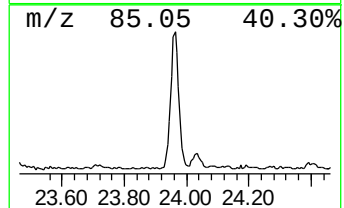
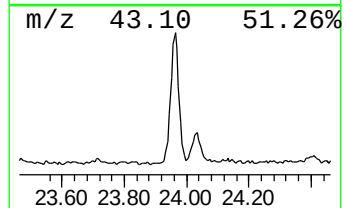
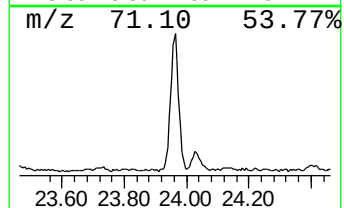
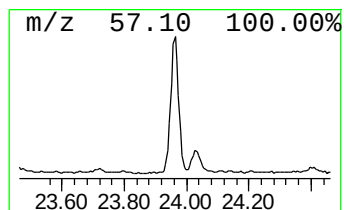
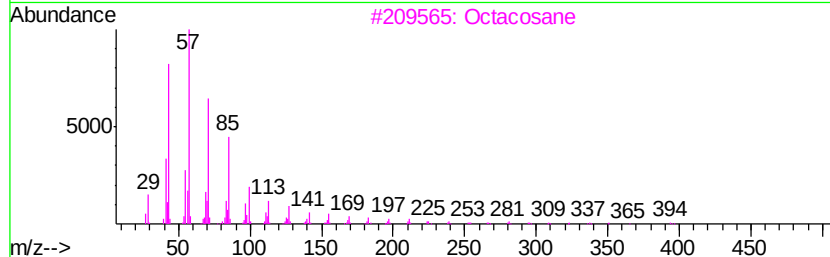
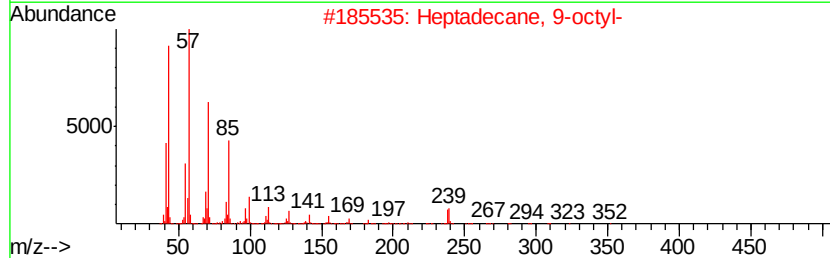
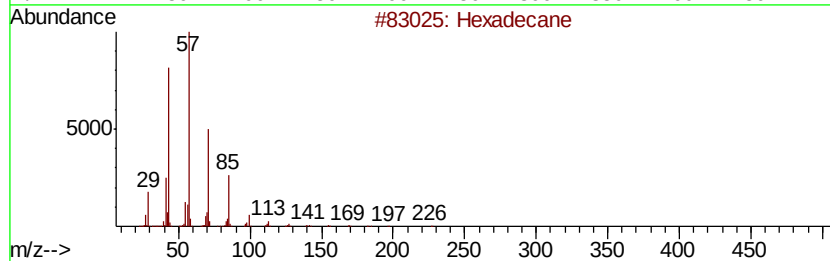
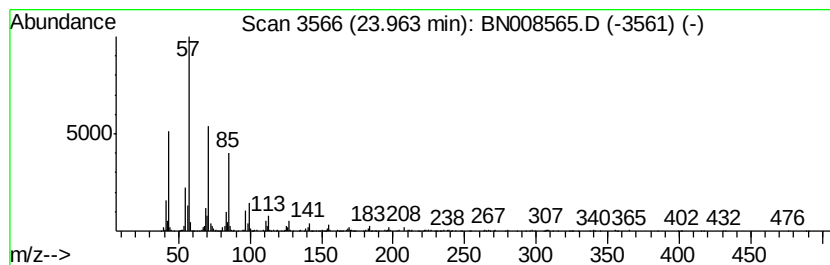
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 23.96 | 3.13 ng/ul | 1211830 | Perylene-d12     | 23.37 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane            | 226 | C16H34  | 000544-76-3 | 94   |
| 2    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 87   |
| 3    |    | Octacosane            | 394 | C28H58  | 000630-02-4 | 87   |
| 4    |    | Tetracosane           | 338 | C24H50  | 000646-31-1 | 87   |
| 5    |    | Hentriacontane        | 437 | C31H64  | 000630-04-6 | 87   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN111319\  
Data File : BN008565.D  
Acq On : 14 Nov 2019 20:19  
Operator : JU  
Sample : K5656-07  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A5455

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN111319MA.M  
Quant Title : SVOA CALIBRATION

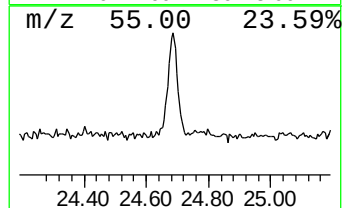
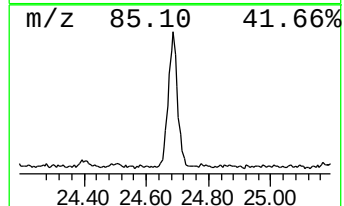
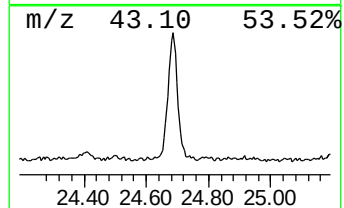
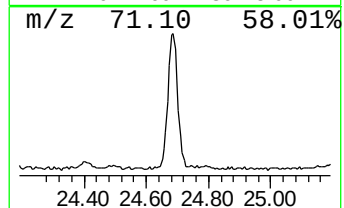
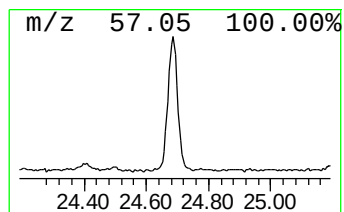
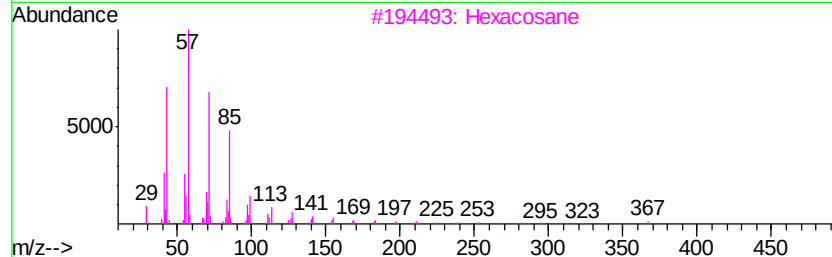
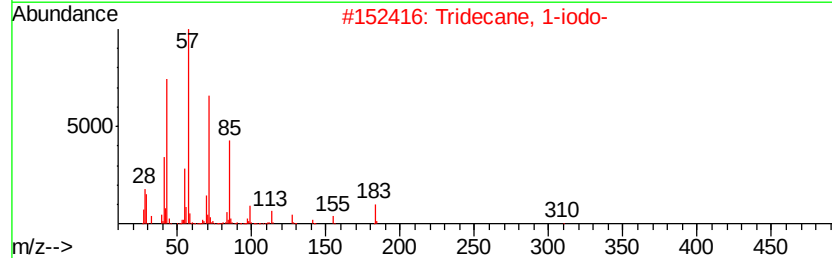
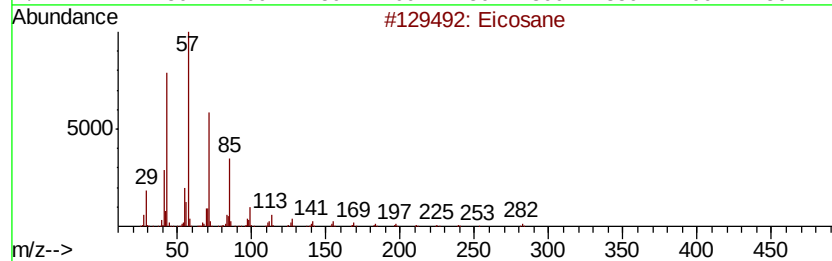
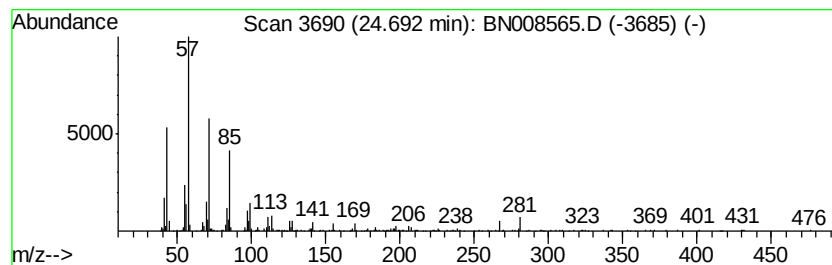
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 24.69 | 2.48 ng/ul | 959243 | Perylene-d12     | 23.37 |

| Hit# | of | Tentative ID       | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane           | 282 | C20H42  | 000112-95-8 | 95   |
| 2    |    | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 91   |
| 3    |    | Hexacosane         | 366 | C26H54  | 000630-01-3 | 90   |
| 4    |    | Octacosane         | 394 | C28H58  | 000630-02-4 | 87   |
| 5    |    | Tetracosane        | 338 | C24H50  | 000646-31-1 | 86   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN111319\  
Data File : BN008565.D  
Acq On : 14 Nov 2019 20:19  
Operator : JU  
Sample : K5656-07  
Misc :  
ALS Vial : 42 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
A5455

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN111319MA.M  
Quant Title : SVOA CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| 1-Heneicosanol       | 20.95 | 3.5     | ng/ul | 1448390  | 5                     | 21.20 | 8187830 | 20.0 |
| (DEL) Alkane: Str... | 22.77 | 2.5     | ng/ul | 974723   | 6                     | 23.37 | 7746380 | 20.0 |
| (DEL) Alkane: Str... | 23.96 | 3.1     | ng/ul | 1211830  | 6                     | 23.37 | 7746380 | 20.0 |
| (DEL) Alkane: Str... | 24.69 | 2.5     | ng/ul | 959243   | 6                     | 23.37 | 7746380 | 20.0 |