LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

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:\HPCHEM1\BNA_F\METHODS\8270-BF060716.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 | 1.655 | 5 | 6 | 14 | rVB | 124430 | 196765 | 9.41% | 0.833% |
| 2 | 1.770 | 14 | 16 | 53 | rVB | 1039265 | 2090143 | 100.00% | 8.852% |
| 3 | 4.821 | 281 | 283 | 287 | rBV | 62648 | 100994 | 4.83% | 0.428% |
| 4 | 5.267 | 320 | 322 | 331 | rBV | 1482932 | 1590281 | 76.08% | 6.735% |
| 5 | 5.656 | 350 | 356 | 358 | rBV2 | 23363 | 41365 | 1.98% | 0.175% |
| 6 | 5.793 | 366 | 368 | 371 | rVB | 24619 | 32316 | 1.55% | 0.137% |
| 7 | 5.861 | 371 | 374 | 376 | rBV2 | 25725 | 47732 | 2.28% | 0.202% |
| 8 | 5.907 | 376 | 378 | 381 | rVV2 | 86703 | 134103 | 6.42% | 0.568% |
| 9 | 5.964 | 381 | 383 | 384 | rVV | 48671 | 67829 | 3.25% | 0.287% |
| 10 | 5.987 | 384 | 385 | 391 | rVB4 | 26420 | 69502 | 3.33% | 0.294% |
| 11 | 6.101 | 391 | 395 | 398 | rBV | 46162 | 87891 | 4.21% | 0.372% |
| 12 | 6.181 | 400 | 402 | 403 | rBV | 52805 | 49402 | 2.36% | 0.209% |
| 13 | 6.216 | 403 | 405 | 407 | rVB2 | 32053 | 44939 | 2.15% | 0.190% |
| 14 | 6.273 | 407 | 410 | 412 | rBV2 | 25116 | 54019 | 2.58% | 0.229% |
| 15 | 6.330 | 412 | 415 | 417 | rVV | 1615033 | 1792278 | 85.75% | 7.590% |
| 16 | 6.410 | 419 | 422 | 423 | rVV | 55222 | 110861 | 5.30% | 0.469% |
| 17 | 6.444 | 423 | 425 | 427 | rVV | 1746084 | 1799443 | 86.09% | 7.621% |
| 18 | 6.524 | 429 | 432 | 433 | rVB2 | 42406 | 68404 | 3.27% | 0.290% |
| 19 | 6.604 | 433 | 439 | 440 | rBV3 | 44321 | 80661 | 3.86% | 0.342% |
| 20 | 6.639 | 440 | 442 | 443 | rVV2 | 41486 | 64067 | 3.07% | 0.271% |
| 21 | 6.673 | 443 | 445 | 448 | rVB | 341249 | 498074 | 23.83% | 2.109% |
| 22 | 6.730 | 448 | 450 | 451 | rBV | 48523 | 64108 | 3.07% | 0.271% |
| 23 | 6.764 | 451 | 453 | 454 | rVV2 | 48278 | 72634 | 3.48% | 0.308% |
| 24 | 6.787 | 454 | 455 | 456 | rVV | 72424 | 95253 | 4.56% | 0.403% |
| 25 | 6.822 | 456 | 458 | 462 | rVB | 1482067 | 1426713 | 68.26% | 6.042% |
| 26 | 6.902 | 462 | 465 | 467 | rBV3 | 43521 | 119075 | 5.70% | 0.504% |
| 27 | 6.936 | 467 | 468 | 471 | rVB2 | 60663 | 81769 | 3.91% | 0.346% |
| 28 | 7.016 | 474 | 475 | 477 | rBV2 | 33101 | 59290 | 2.84% | 0.251% |
| 29 | 7.062 | 477 | 479 | 480 | rVV | 53123 | 56762 | 2.72% | 0.240% |
| 30 | 7.084 | 480 | 481 | 486 | rVV5 | 33577 | 82839 | 3.96% | 0.351% |
| 31 | 7.210 | 488 | 492 | 493 | rVV2 | 67343 | 148433 | 7.10% | 0.629% |
| 32 | 7.233 | 493 | 494 | 497 | rVV | 813884 | 938396 | 44.90% | 3.974% |
| 33 | 7.313 | 499 | 501 | 504 | rBV3 | 56573 | 108616 | 5.20% | 0.460% |
| 34 | 7.393 | 504 | 508 | 510 | rVB4 | 23179 | 62201 | 2.98% | 0.263% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

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:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 7.439 | 510 | 512 | 514 | rBV3 | 14004 | 33362 | 1.60% | 0.141% |
| 36 | 7.473 | 514 | 515 | 517 | rVB | 94078 | 81178 | 3.88% | 0.344% |
| 37 | 7.519 | 517 | 519 | 521 | rBV3 | 23643 | 37547 | 1.80% | 0.159% |
| 38 | 7.587 | 521 | 525 | 528 | rVB4 | 73300 | 152921 | 7.32% | 0.648% |
| 39 | 7.667 | 530 | 532 | 534 | rVB3 | 19403 | 30827 | 1.47% | 0.131% |
| 40 | 7.713 | 534 | 536 | 540 | rBV2 | 32012 | 69420 | 3.32% | 0.294% |
| 41 | 7.782 | 540 | 542 | 544 | rVB | 41615 | 41273 | 1.97% | 0.175% |
| 42 | 7.850 | 544 | 548 | 550 | rBV4 | 25470 | 80741 | 3.86% | 0.342% |
| 43 | 7.907 | 550 | 553 | 554 | rBV3 | 34252 | 59710 | 2.86% | 0.253% |
| 44 | 7.953 | 555 | 557 | 559 | rVV | 751400 | 638385 | 30.54% | 2.704% |
| 45 | 8.022 | 562 | 563 | 565 | rVB | 22361 | 26600 | 1.27% | 0.113% |
| 46 | 8.124 | 570 | 572 | 573 | rBV | 24057 | 29064 | 1.39% | 0.123% |
| 47 | 8.159 | 573 | 575 | 577 | rBV | 41725 | 40766 | 1.95% | 0.173% |
| 48 | 8.250 | 579 | 583 | 584 | rBV2 | 55261 | 85348 | 4.08% | 0.361% |
| 49 | 8.387 | 593 | 595 | 599 | rVB | 279109 | 316793 | 15.16% | 1.342% |
| 50 | 8.456 | 599 | 601 | 603 | rVB2 | 27165 | 27486 | 1.32% | 0.116% |
| 51 | 8.490 | 603 | 604 | 608 | rBV4 | 34182 | 72346 | 3.46% | 0.306% |
| 52 | 8.547 | 608 | 609 | 612 | rBV2 | 34492 | 66562 | 3.18% | 0.282% |
| 53 | 8.650 | 616 | 618 | 620 | rVB | 60449 | 74713 | 3.57% | 0.316% |
| 54 | 8.696 | 620 | 622 | 623 | rBV | 26254 | 29150 | 1.39% | 0.123% |
| 55 | 8.753 | 626 | 627 | 631 | rVB3 | 31783 | 52060 | 2.49% | 0.220% |
| 56 | 8.833 | 631 | 634 | 635 | rBV2 | 47545 | 61796 | 2.96% | 0.262% |
| 57 | 8.867 | 635 | 637 | 639 | rVB2 | 64688 | 71546 | 3.42% | 0.303% |
| 58 | 8.959 | 644 | 645 | 646 | rVV | 47108 | 55468 | 2.65% | 0.235% |
| 59 | 8.982 | 646 | 647 | 649 | rVV | 243523 | 217355 | 10.40% | 0.920% |
| 60 | 9.027 | 649 | 651 | 653 | rVV | 1587242 | 1549960 | 74.16% | 6.564% |
| 61 | 9.130 | 655 | 660 | 661 | rVV2 | 81461 | 187084 | 8.95% | 0.792% |
| 62 | 9.165 | 661 | 663 | 665 | rVV2 | 48413 | 105431 | 5.04% | 0.446% |
| 63 | 9.233 | 667 | 669 | 670 | rVV2 | 34460 | 36942 | 1.77% | 0.156% |
| 64 | 9.279 | 670 | 673 | 674 | rVV | 20654 | 38999 | 1.87% | 0.165% |
| 65 | 9.302 | 674 | 675 | 676 | rVV | 40645 | 39221 | 1.88% | 0.166% |
| 66 | 9.370 | 679 | 681 | 682 | rVV | 51678 | 79733 | 3.81% | 0.338% |
| 67 | 9.405 | 682 | 684 | 685 | rVV2 | 83411 | 142713 | 6.83% | 0.604% |
| 68 | 9.427 | 685 | 686 | 688 | rVV2 | 672181 | 698624 | 33.42% | 2.959% |
| 69 | 9.496 | 690 | 692 | 693 | rVB2 | 35630 | 35027 | 1.68% | 0.148% |
| 70 | 9.610 | 701 | 702 | 704 | rVB | 73790 | 55406 | 2.65% | 0.235% |
| 71 | 9.645 | 704 | 705 | 707 | rVV | 75465 | 62546 | 2.99% | 0.265% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

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:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 9.702 | 707 | 710 | 712 | rVV | 714599 | 689993 | 33.01% | 2.922% |
| 73 | 9.748 | 712 | 714 | 716 | rVV2 | 22917 | 33371 | 1.60% | 0.141% |
| 74 | 9.816 | 718 | 720 | 722 | rVB | 38330 | 46051 | 2.20% | 0.195% |
| 75 | 9.908 | 722 | 728 | 729 | rBV3 | 57780 | 148299 | 7.10% | 0.628% |
| 76 | 9.965 | 732 | 733 | 735 | rVB | 85631 | 70962 | 3.40% | 0.301% |
| 77 | 10.102 | 743 | 745 | 747 | rBV3 | 21030 | 33797 | 1.62% | 0.143% |
| 78 | 10.136 | 747 | 748 | 750 | rVB | 46988 | 59158 | 2.83% | 0.251% |
| 79 | 10.365 | 765 | 768 | 770 | rBV | 115868 | 161608 | 7.73% | 0.684% |
| 80 | 10.490 | 776 | 779 | 781 | rBV | 667306 | 751087 | 35.93% | 3.181% |
| 81 | 10.570 | 784 | 786 | 788 | rVB2 | 26429 | 35058 | 1.68% | 0.148% |
| 82 | 10.628 | 788 | 791 | 793 | rBV | 217902 | 318074 | 15.22% | 1.347% |
| 83 | 10.810 | 805 | 807 | 811 | rVB4 | 25337 | 65840 | 3.15% | 0.279% |
| 84 | 10.936 | 816 | 818 | 820 | rBV2 | 24549 | 41589 | 1.99% | 0.176% |
| 85 | 11.062 | 827 | 829 | 830 | rBV | 40162 | 55461 | 2.65% | 0.235% |
| 86 | 11.085 | 830 | 831 | 834 | rVB | 96811 | 91282 | 4.37% | 0.387% |
| 87 | 11.176 | 837 | 839 | 843 | rBV | 580193 | 518814 | 24.82% | 2.197% |
| 88 | 11.771 | 890 | 891 | 897 | rVB5 | 25661 | 65533 | 3.14% | 0.278% |
| 89 | 12.113 | 919 | 921 | 923 | rVB2 | 26273 | 35622 | 1.70% | 0.151% |
| 90 | 12.171 | 923 | 926 | 928 | rBV4 | 21354 | 47038 | 2.25% | 0.199% |
| 91 | 12.228 | 929 | 931 | 933 | rBV2 | 22673 | 28663 | 1.37% | 0.121% |
| 92 | 12.388 | 943 | 945 | 946 | rBV2 | 42181 | 46206 | 2.21% | 0.196% |
| 93 | 12.422 | 946 | 948 | 951 | rVV4 | 29234 | 36416 | 1.74% | 0.154% |
| 94 | 12.616 | 963 | 965 | 966 | rBV | 33301 | 36379 | 1.74% | 0.154% |
| 95 | 12.754 | 975 | 977 | 980 | rBV | 886778 | 1022383 | 48.91% | 4.330% |
| 96 | 12.891 | 987 | 989 | 991 | rBV | 40015 | 37911 | 1.81% | 0.161% |
| 97 | 13.691 | 1057 | 1059 | 1067 | rVB4 | 49935 | 108268 | 5.18% | 0.459% |
| 98 | 13.805 | 1067 | 1069 | 1073 | rBV | 513639 | 530605 | 25.39% | 2.247% |
| 99 | 15.177 | 1187 | 1189 | 1197 | rBV | 347000 | 546213 | 26.13% | 2.313% |
| 100 | 16.468 | 1300 | 1302 | 1308 | rBV5 | 48162 | 129856 | 6.21% | 0.550% |

Sum of corrected areas: 23612798

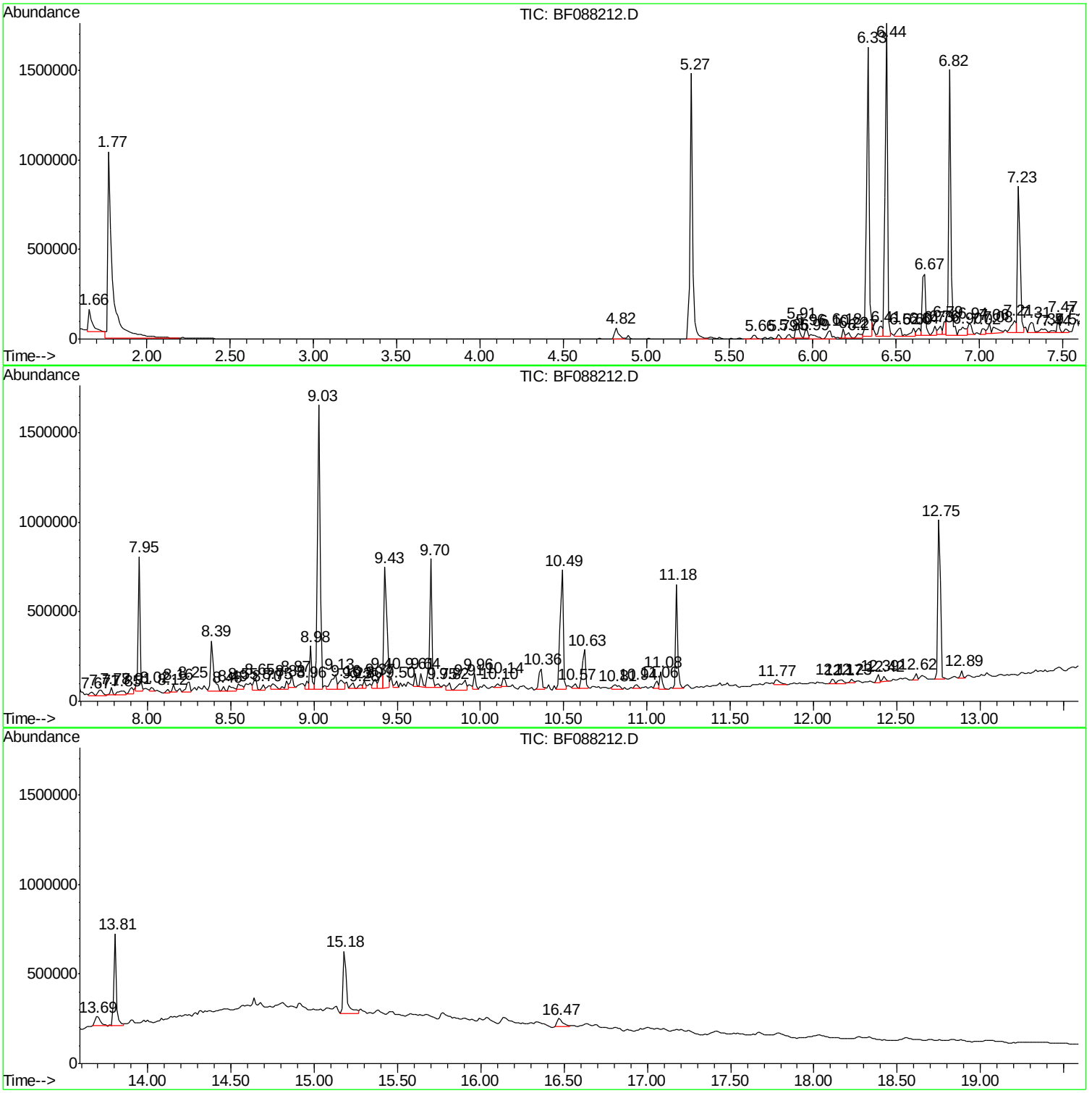
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
08-B6(8-16)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

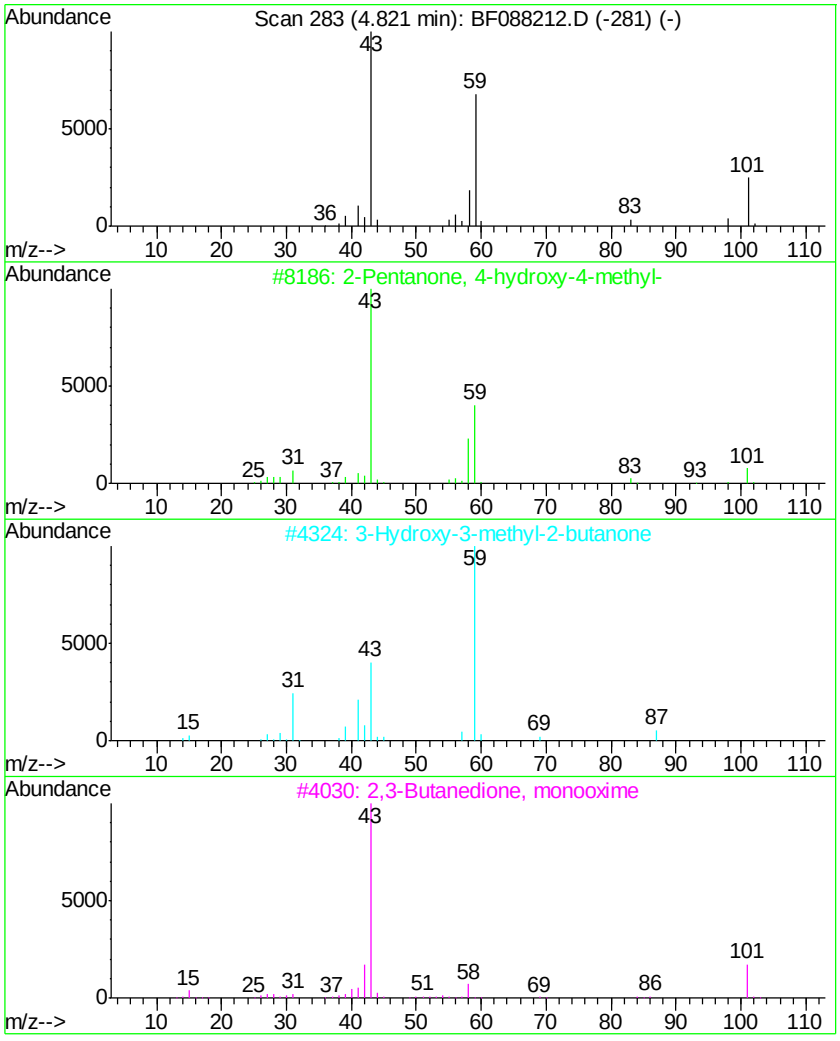
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

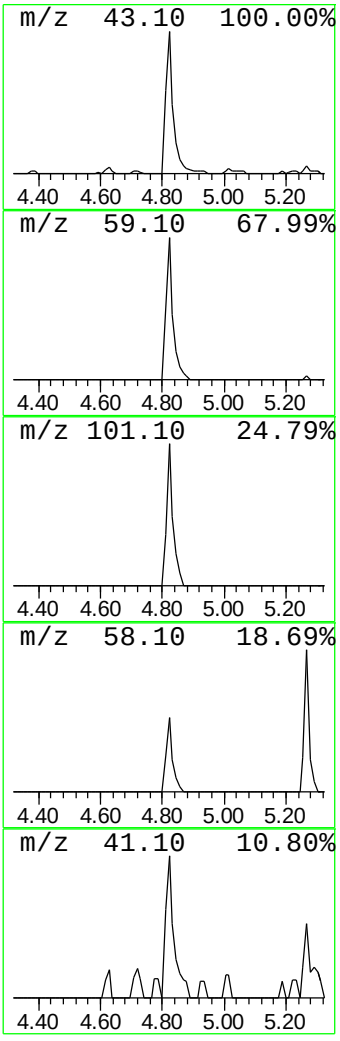
**********

Peak Number 3 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.82 | 4.06 ng | 100994 | 1,4-Dichlorobenzene-d4 | 6.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | 3-Hydroxy-3-methyl-2-butanone | 102 | C5H10O2 | 000115-22-0 | 17 |
| 3 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 12 |
| 4 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 10 |
| 5 | Guanidine | 59 | CH5N3 | 000113-00-8 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

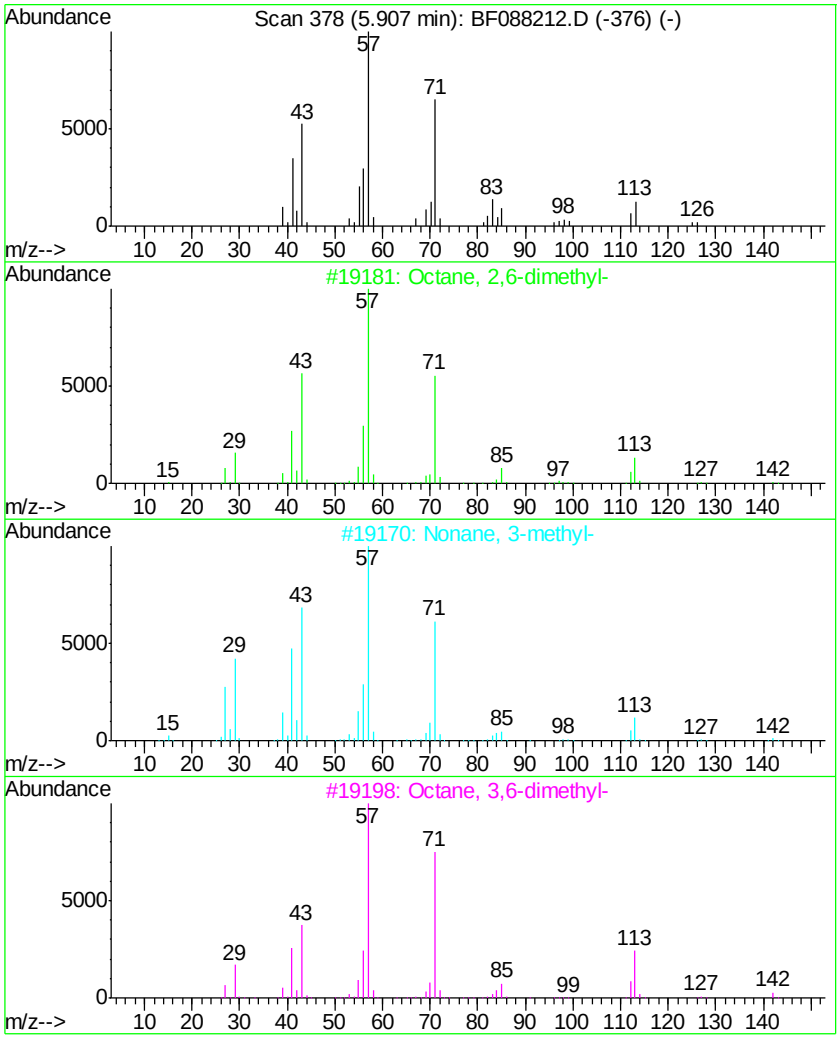
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

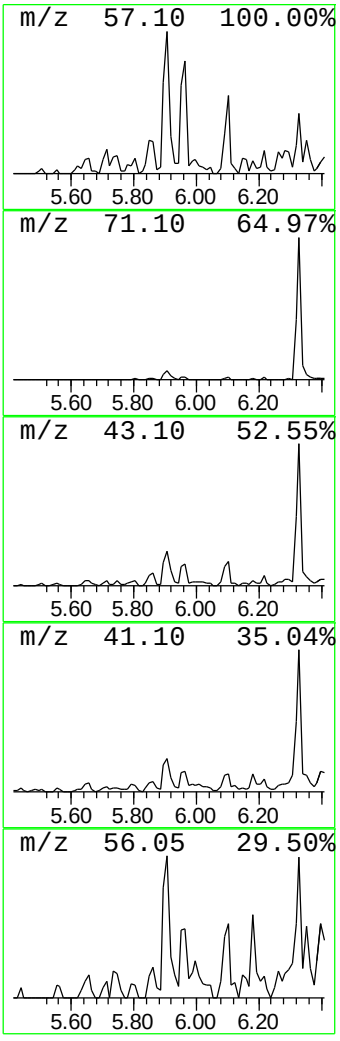
**********

Peak Number 4 Octane, 2,6-dimethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.91 | 5.38 ng | 134103 | 1,4-Dichlorobenzene-d4 | 6.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 72 |
| 2 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 72 |
| 3 | Octane, 3,6-dimethyl- | 142 | C10H22 | 015869-94-0 | 72 |
| 4 | Sulfurous acid, butyl octyl ester | 250 | C12H26O3S | 1000309-17-5 | 64 |
| 5 | Undecane, 4,5-dimethyl- | 184 | C13H28 | 017312-79-7 | 64 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

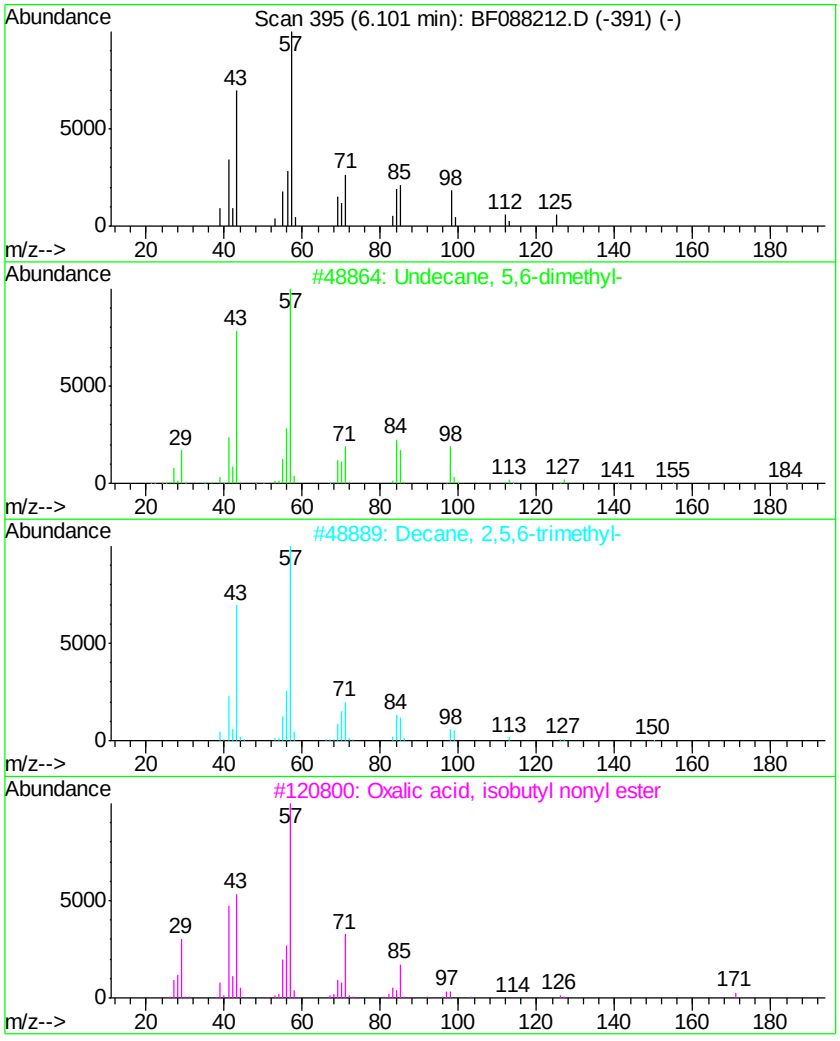
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

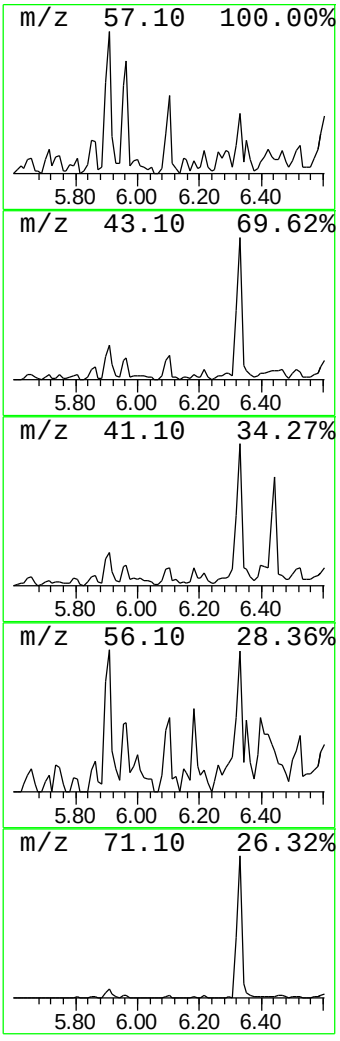
**********

Peak Number 5 Undecane, 5,6-dimethyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.10 | 3.53 ng | 87891 | 1,4-Dichlorobenzene-d4 | 6.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane, 5,6-dimethyl- | 184 | C13H28 | 017615-91-7 | 72 |
| 2 | Decane, 2,5,6-trimethyl- | 184 | C13H28 | 062108-23-0 | 50 |
| 3 | Oxalic acid, isobutyl nonyl ester | 272 | C15H28O4 | 1000309-37-4 | 50 |
| 4 | Heptane, 3-ethyl-2-methyl- | 142 | C10H22 | 014676-29-0 | 43 |
| 5 | Undecane | 156 | C11H24 | 001120-21-4 | 43 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

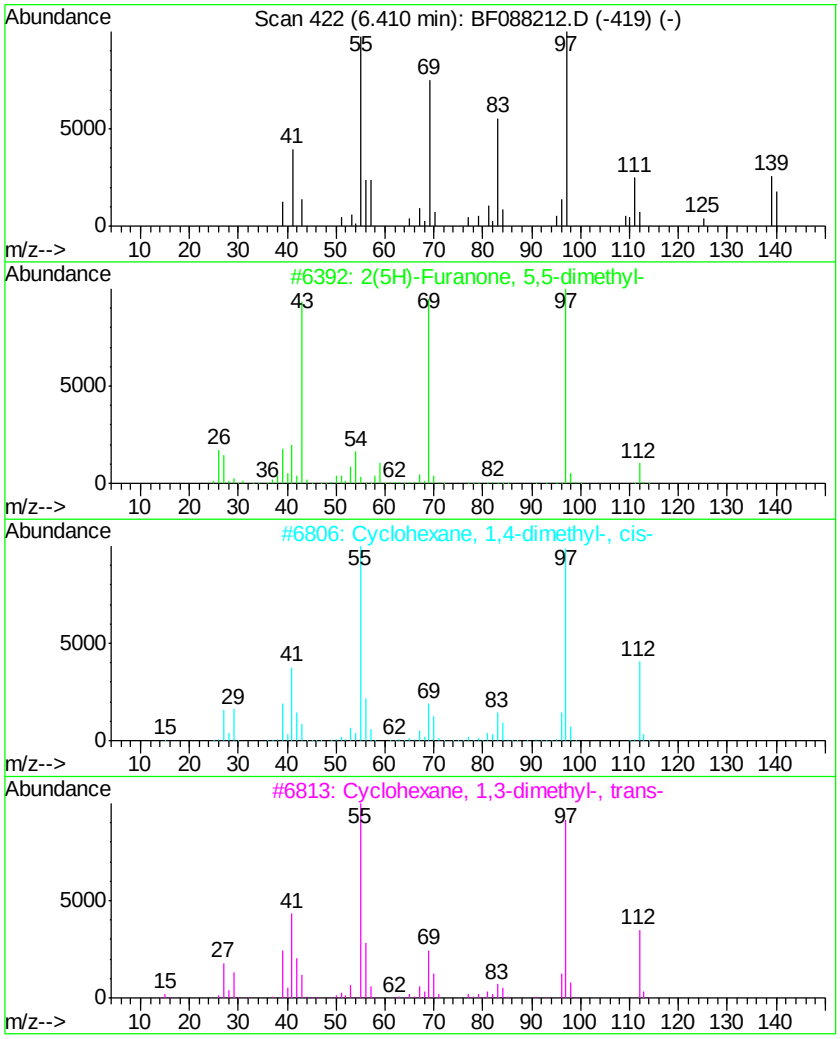
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

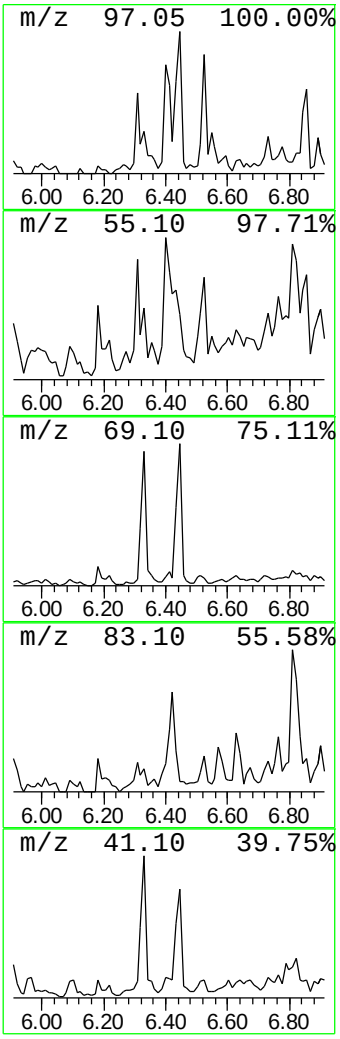
**********

Peak Number 6 unknown6.41 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.41 | 4.45 ng | 110861 | 1,4-Dichlorobenzene-d4 | 6.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2(5H)-Furanone, 5,5-dimethyl- | 112 | C6H8O2 | 020019-64-1 | 38 |
| 2 | Cyclohexane, 1,4-dimethyl-, cis- | 112 | C8H16 | 000624-29-3 | 38 |
| 3 | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16 | 002207-03-6 | 38 |
| 4 | Cyclohexane, 1,4-dimethyl- | 112 | C8H16 | 000589-90-2 | 38 |
| 5 | Sulfurous acid, cyclohexylmethyl... | 262 | C13H26O3S | 1000309-21-5 | 35 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

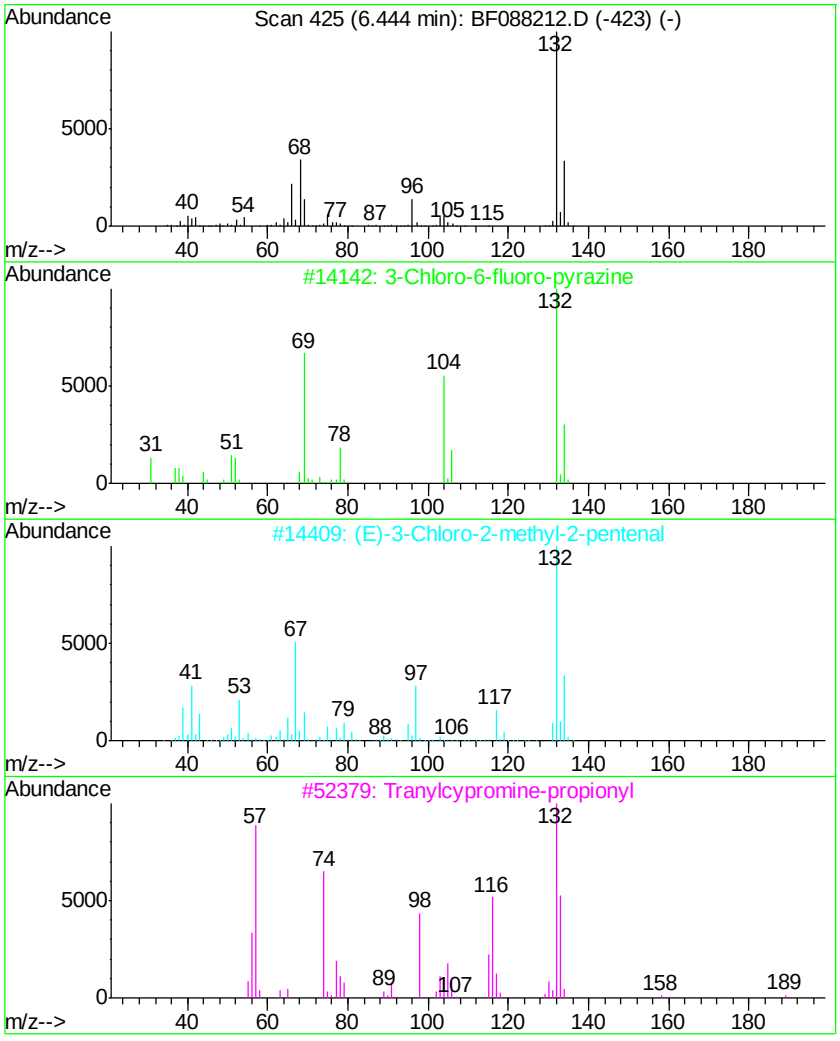
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

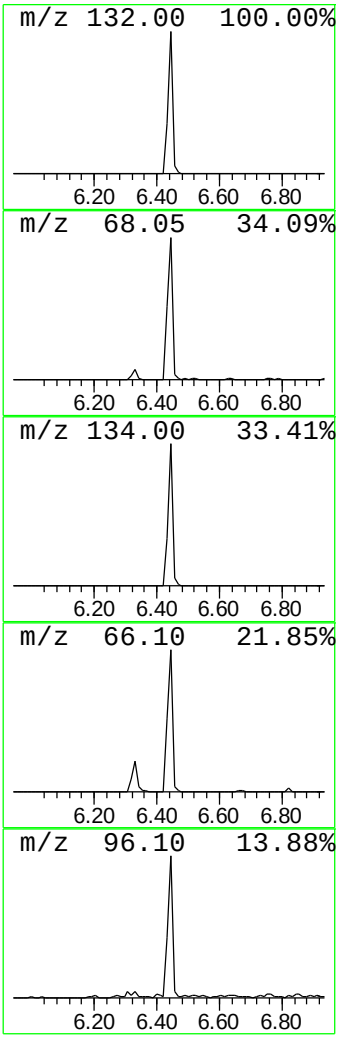
**********

Peak Number 7 unknown6.44 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.44 | 72.26 ng | 1799440 | 1,4-Dichlorobenzene-d4 | 6.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 38 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 25 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 12 |
| 4 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |
| 5 | Xenon | 132 | Xe | 007440-63-3 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

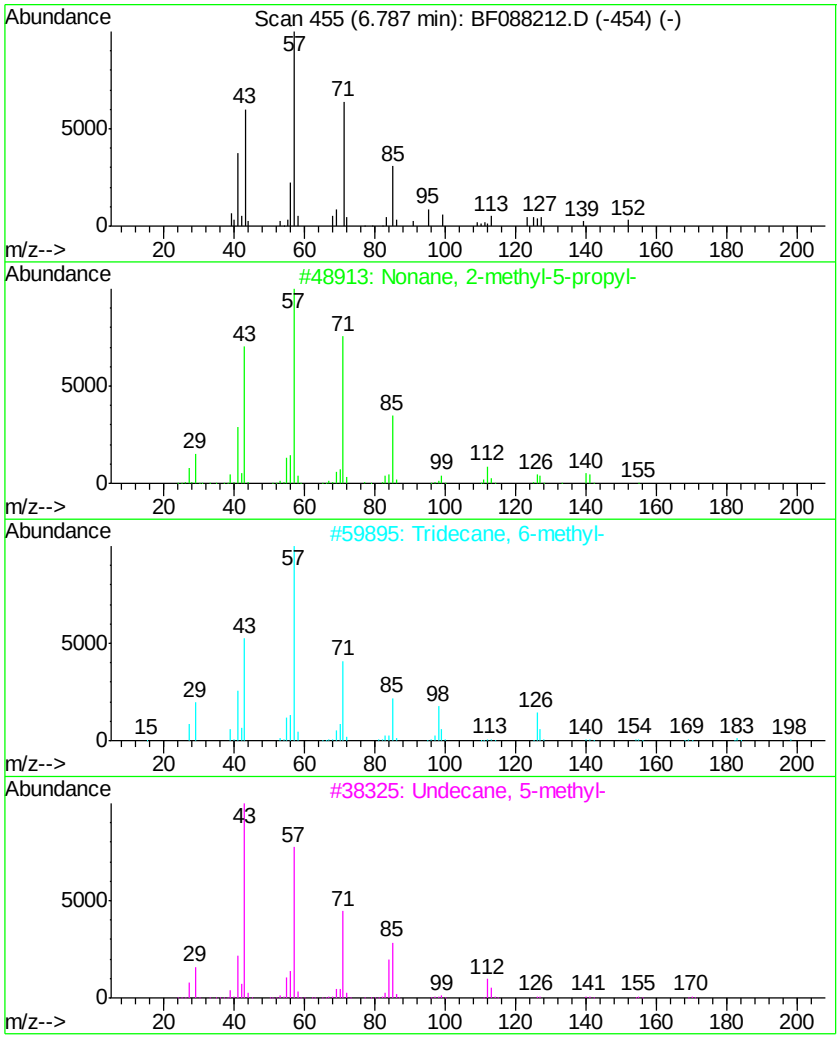
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

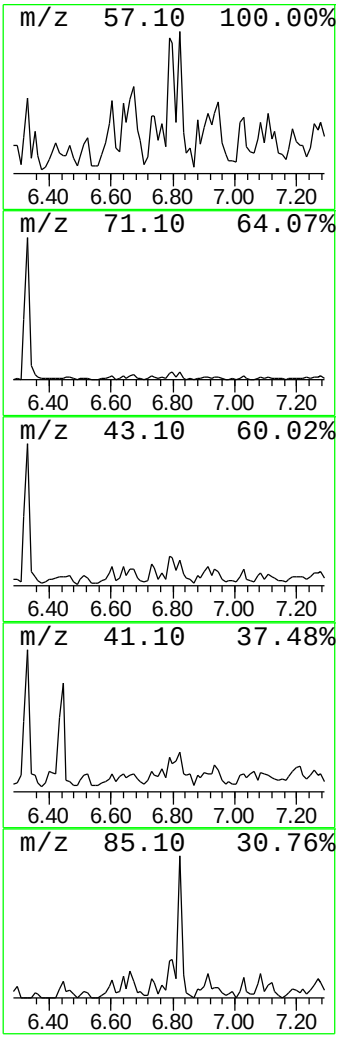
**********

Peak Number 8 Nonane, 2-methyl-5-propyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.79 | 3.82 ng | 95253 | 1,4-Dichlorobenzene-d4 | 6.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 2-methyl-5-propyl- | 184 | C13H28 | 031081-17-1 | 64 |
| 2 | Tridecane, 6-methyl- | 198 | C14H30 | 013287-21-3 | 59 |
| 3 | Undecane, 5-methyl- | 170 | C12H26 | 001632-70-8 | 59 |
| 4 | Pentadecane | 212 | C15H32 | 000629-62-9 | 59 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 59 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

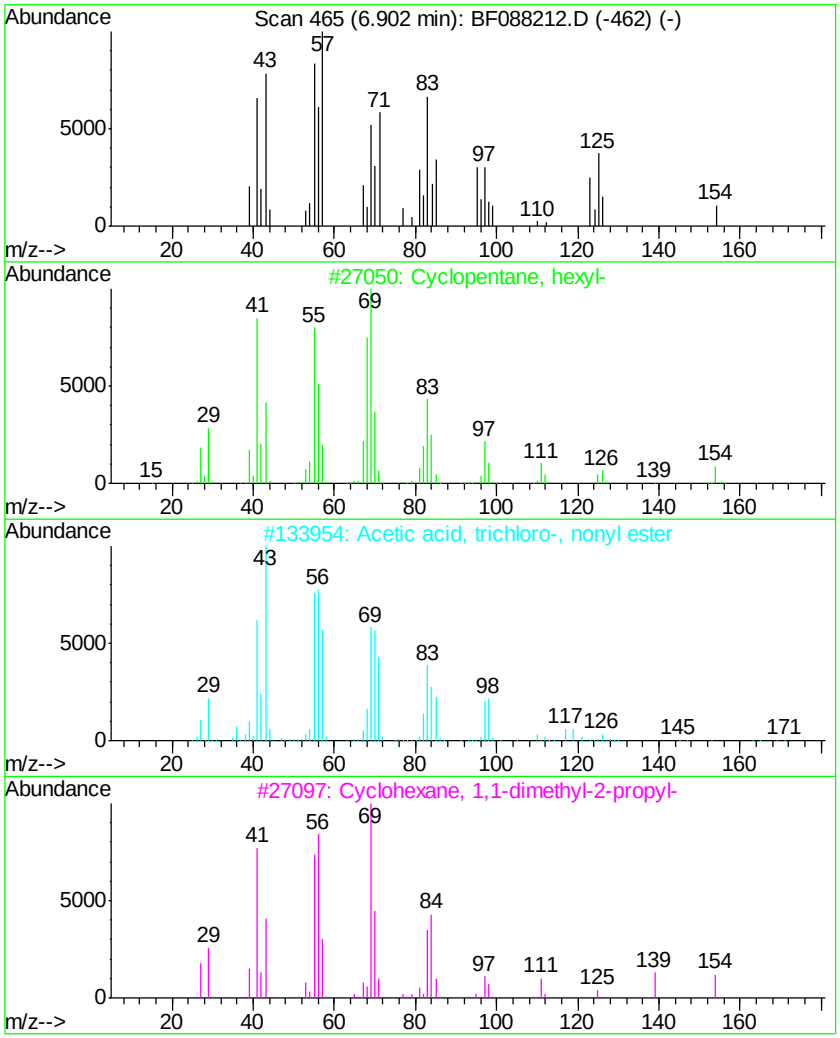
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

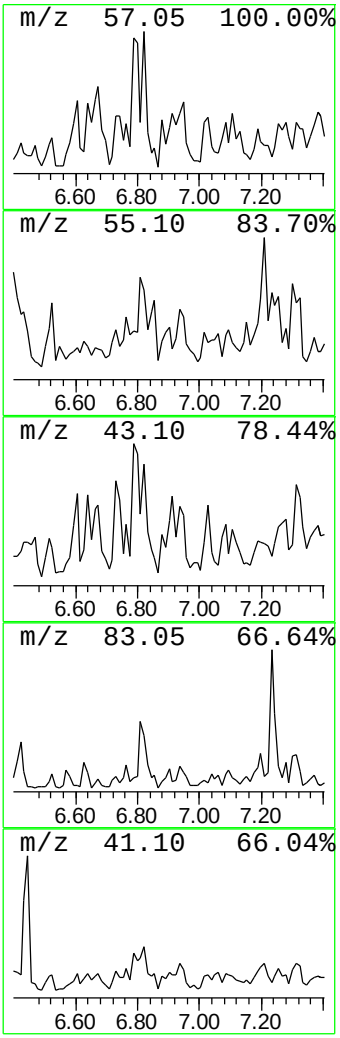
**********

Peak Number 10 unknown6.90 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.90 | 4.78 ng | 119075 | 1,4-Dichlorobenzene-d4 | 6.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, hexyl- | 154 | C11H22 | 004457-00-5 | 38 |
| 2 | Acetic acid, trichloro-, nonyl e... | 288 | C11H19Cl3O2 | 065611-32-7 | 35 |
| 3 | Cyclohexane, 1,1-dimethyl-2-propyl- | 154 | C11H22 | 081983-71-3 | 25 |
| 4 | (2-Methylbutyl)cyclohexane | 154 | C11H22 | 054105-77-0 | 25 |
| 5 | Ethanone, 1-(2,2-dimethylcyclope... | 140 | C9H16O | 003664-75-3 | 25 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

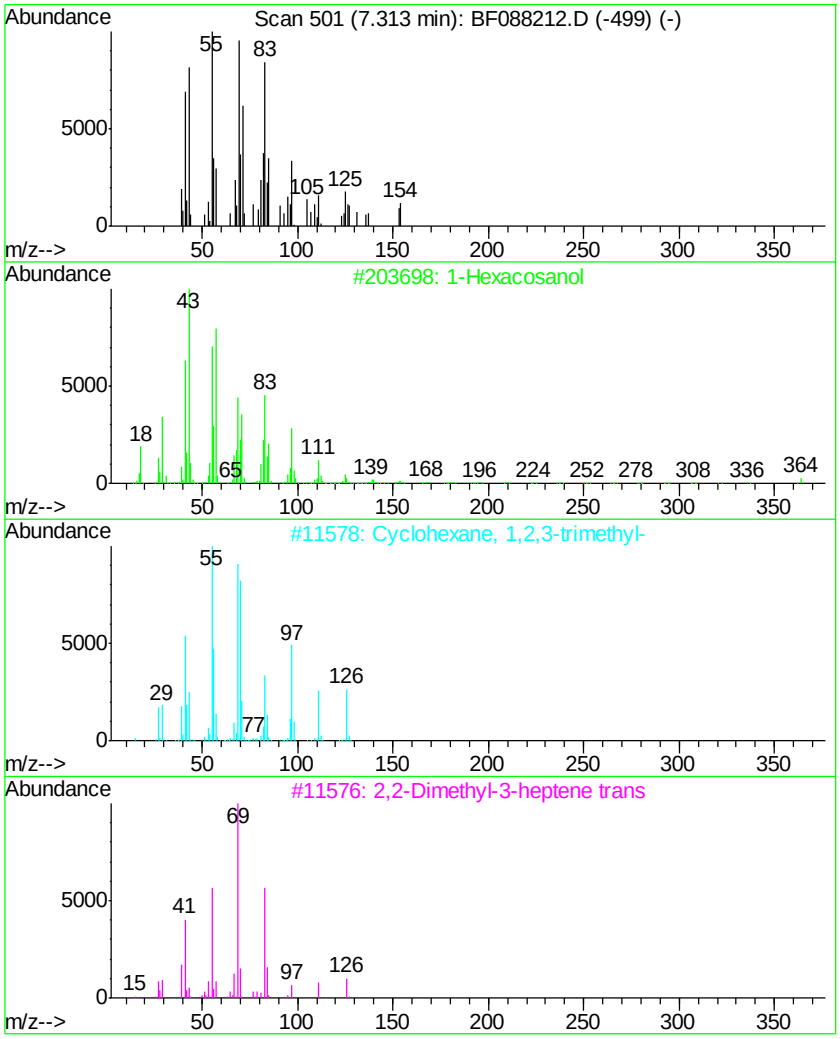
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

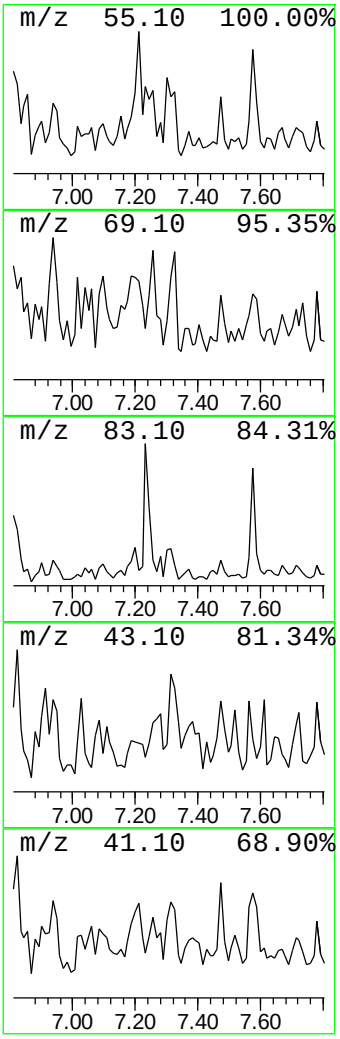
**********

Peak Number 11 unknown7.31 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.31 | 4.36 ng | 108616 | 1,4-Dichlorobenzene-d4 | 6.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexacosanol | 382 | C26H54O | 000506-52-5 | 43 |
| 2 | Cyclohexane, 1,2,3-trimethyl- | 126 | C9H18 | 001678-97-3 | 43 |
| 3 | 2,2-Dimethyl-3-heptene trans | 126 | C9H18 | 019550-75-5 | 38 |
| 4 | Cyclohexane, 1,2-diethyl-3-methyl- | 154 | C11H22 | 061141-80-8 | 30 |
| 5 | (2-Methylbutyl)cyclohexane | 154 | C11H22 | 054105-77-0 | 30 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

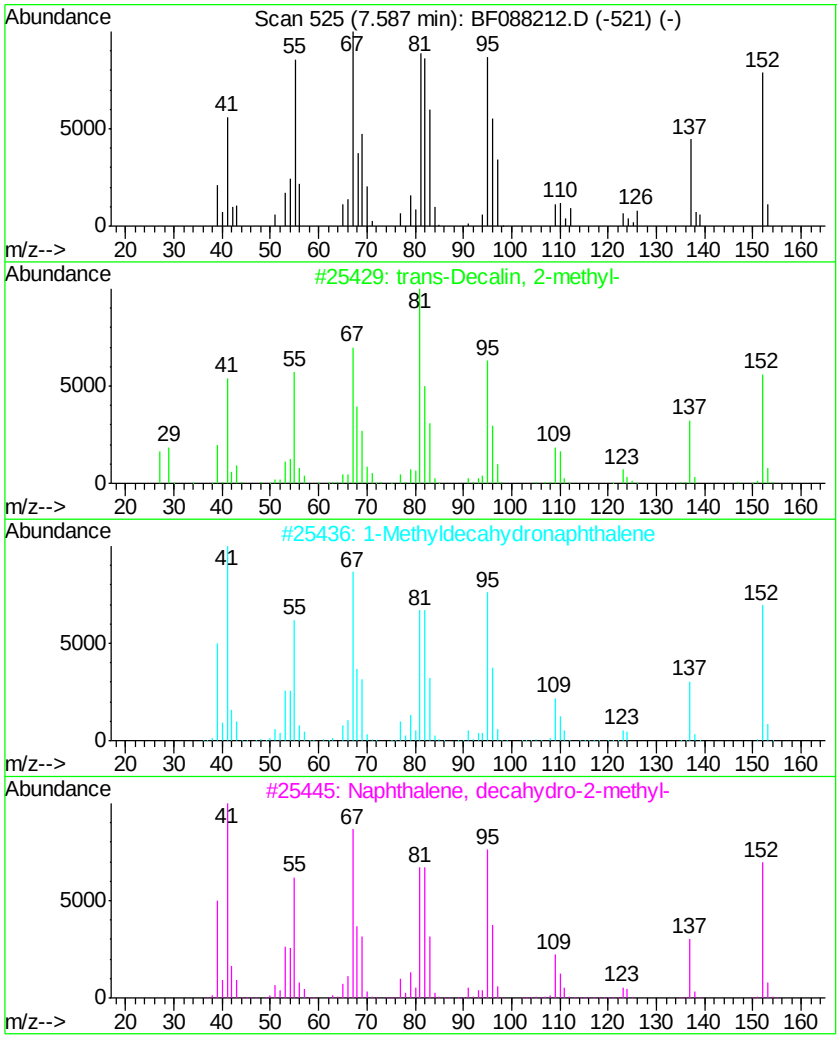
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

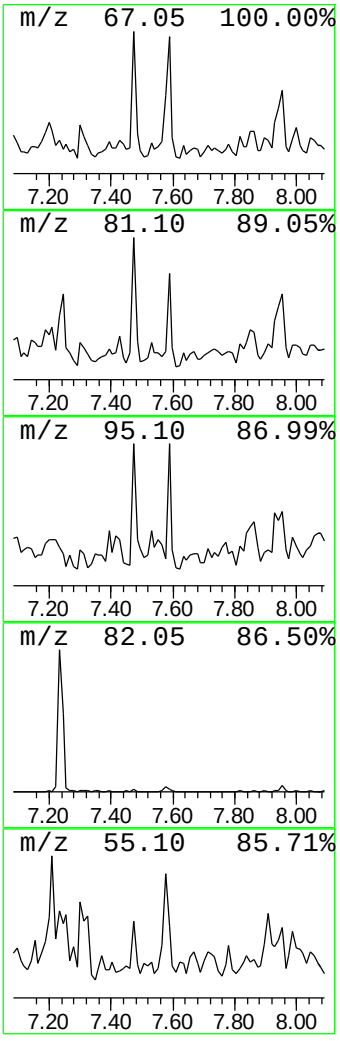
**********

Peak Number 12 trans-Decalin, 2-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.59 | 4.79 ng | 152921 | Naphthalene-d8 | 7.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | trans-Decalin, 2-methyl- | 152 | C11H20 | 1000152-47-3 | 72 |
| 2 | 1-Methyldecahydronaphthalene | 152 | C11H20 | 002958-75-0 | 70 |
| 3 | Naphthalene, decahydro-2-methyl- | 152 | C11H20 | 002958-76-1 | 70 |
| 4 | trans-4a-Methyl-decahydronaphtha... | 152 | C11H20 | 002547-27-5 | 64 |
| 5 | Bicyclo[4.3.1]decan-10-one | 152 | C10H16O | 020440-21-5 | 58 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

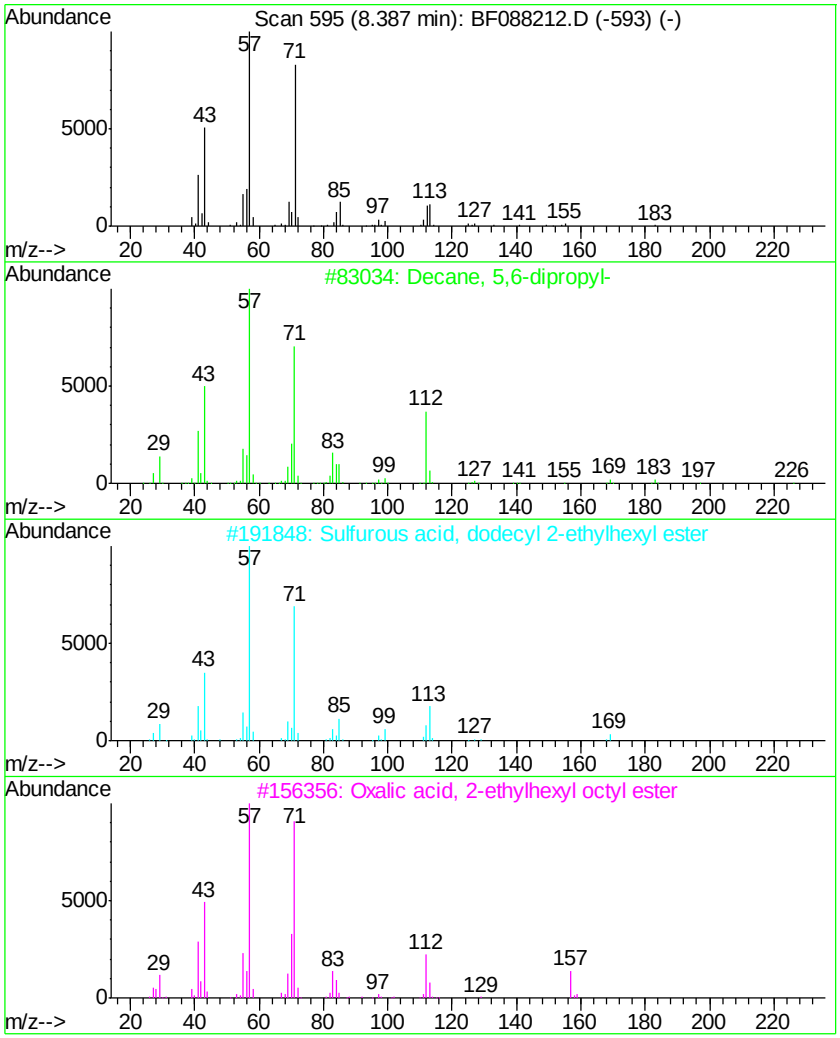
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

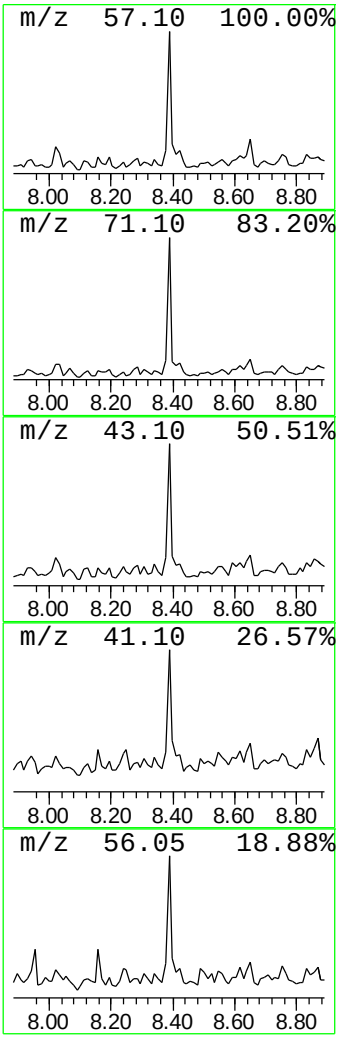
**********

Peak Number 13 Decane, 5,6-dipropyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.39 | 9.92 ng | 316793 | Naphthalene-d8 | 7.95 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 5,6-dipropyl- | 226 | C16H34 | 119209-20-0 | 78 |
| 2 | Sulfurous acid, dodecyl 2-ethylh... | 362 | C20H42O3S | 1000309-19-5 | 78 |
| 3 | Oxalic acid, 2-ethylhexyl octyl ... | 314 | C18H34O4 | 1000309-39-1 | 78 |
| 4 | Heptadecane, 7-methyl- | 254 | C18H38 | 020959-33-5 | 78 |
| 5 | Decane, 4-methyl- | 156 | C11H24 | 002847-72-5 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

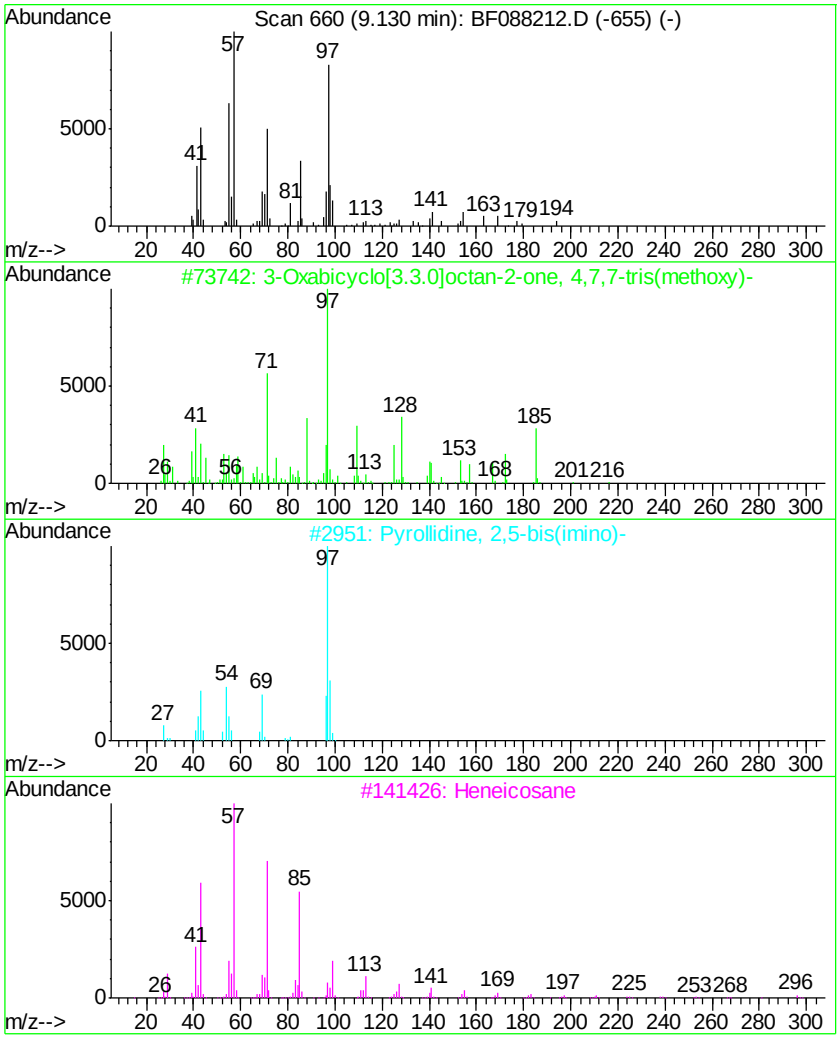
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

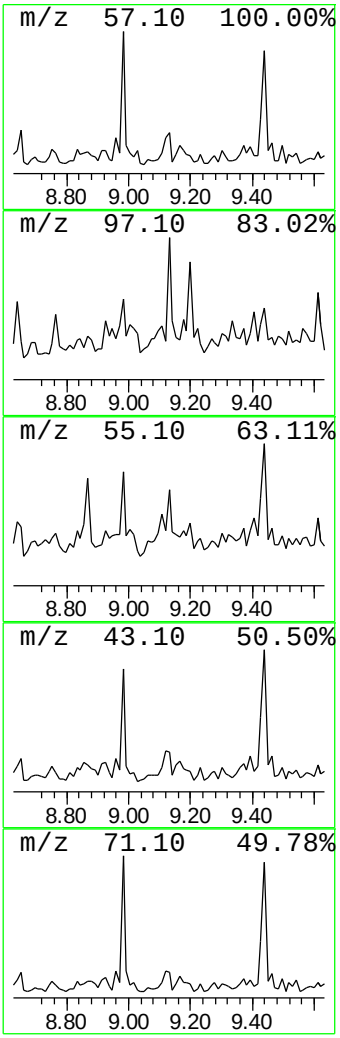
**********

Peak Number 14 unknown9.13 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.13 | 5.42 ng | 187084 | Acenaphthene-d10 | 9.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Oxabicyclo[3.3.0]octan-2-one, ... | 216 | C10H16O5 | 1000155-61-8 | 47 |
| 2 | Pyrollidine, 2,5-bis(imino)- | 97 | C4H7N3 | 000503-84-4 | 43 |
| 3 | Heneicosane | 296 | C21H44 | 000629-94-7 | 35 |
| 4 | 3,5-Dimethyldodecane | 198 | C14H30 | 107770-99-0 | 35 |
| 5 | Cyclohexane, 1-methyl-2-pentyl- | 168 | C12H24 | 054411-01-7 | 35 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

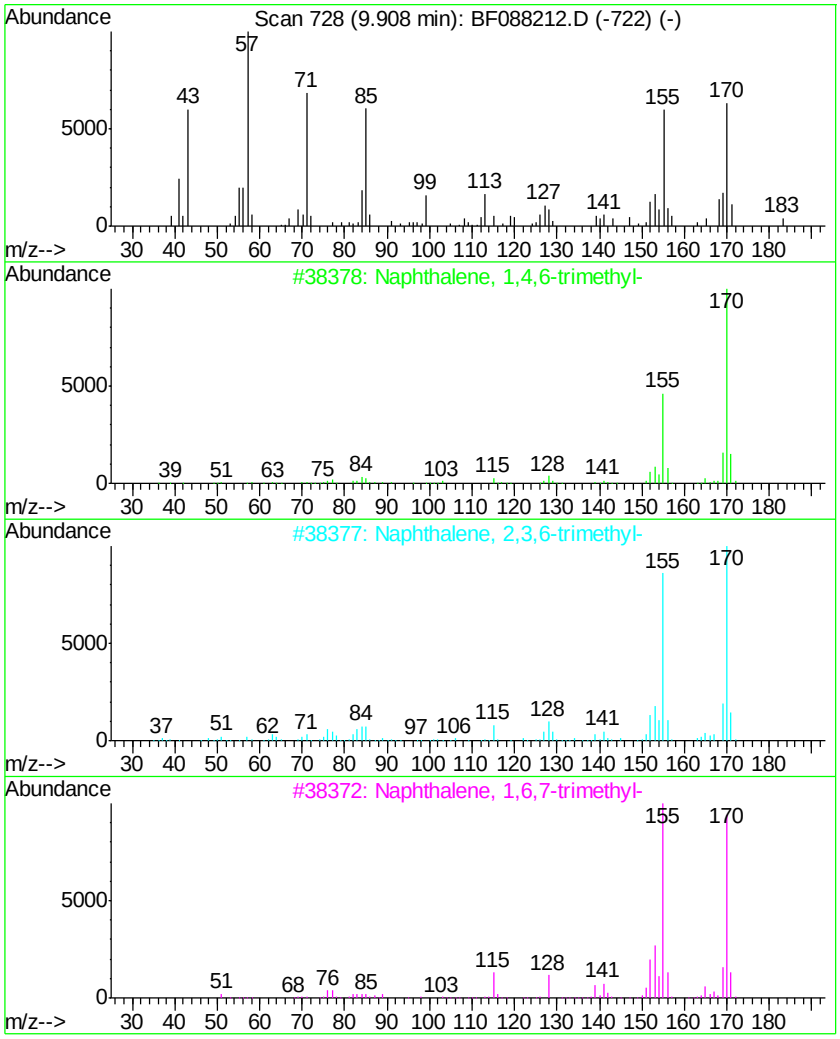
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

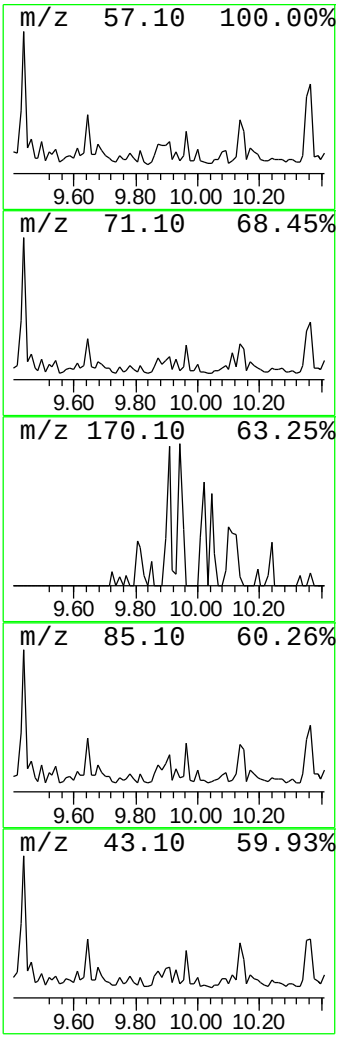
**********

Peak Number 15 Naphthalene, 1,4,6-trimethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.91 | 4.30 ng | 148299 | Acenaphthene-d10 | 9.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 90 |
| 2 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 89 |
| 3 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 78 |
| 4 | 4,6,8-Trimethylazulene | 170 | C13H14 | 000941-81-1 | 60 |
| 5 | 3-(2-Methyl-propenyl)-1H-indene | 170 | C13H14 | 1000187-78-5 | 49 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

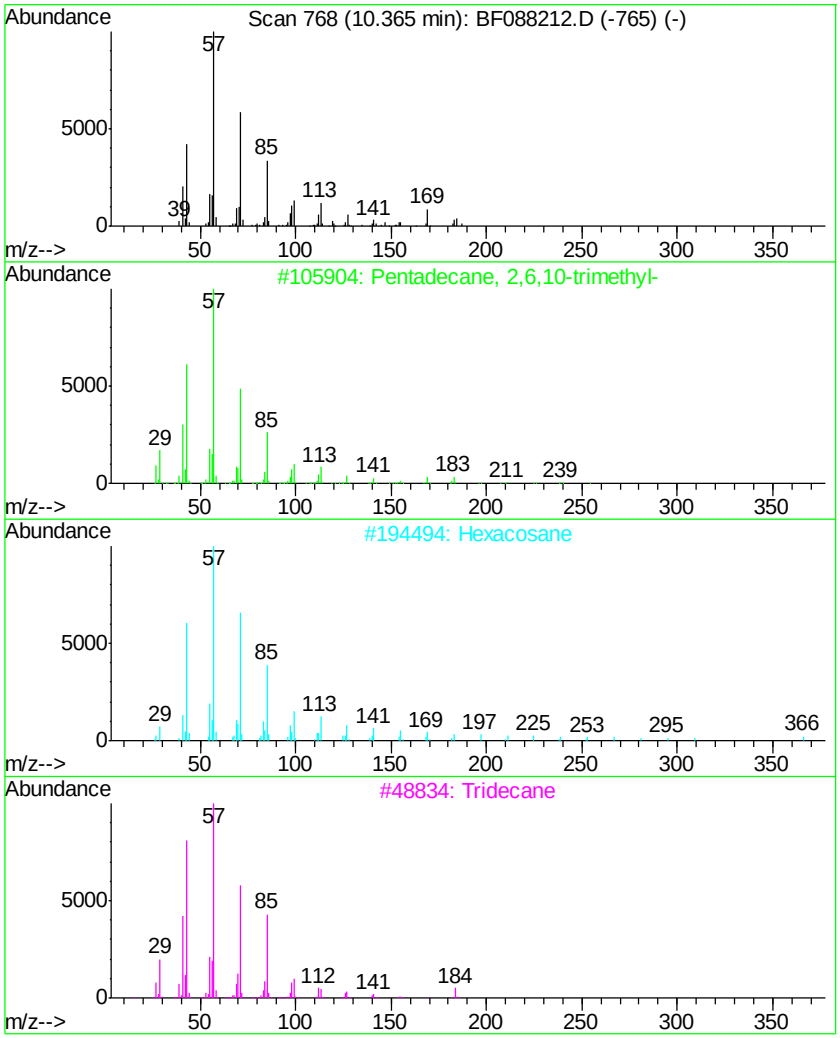
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

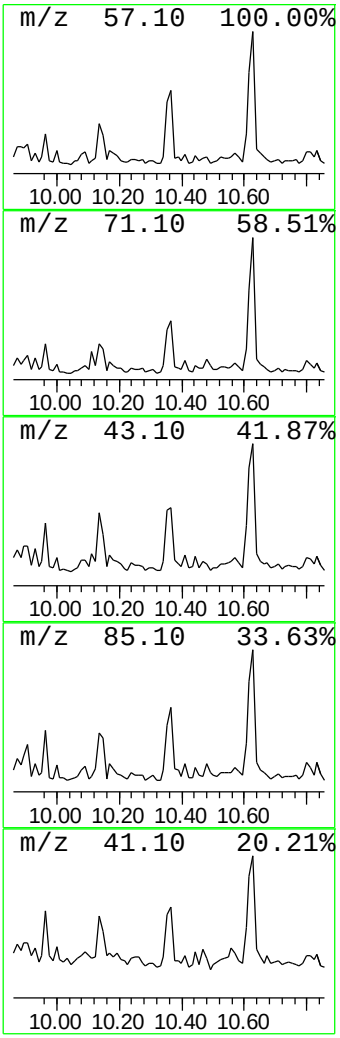
**********

Peak Number 16 Pentadecane, 2,6,10-trimethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.36 | 4.68 ng | 161608 | Acenaphthene-d10 | 9.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane, 2,6,10-trimethyl- | 254 | C18H38 | 003892-00-0 | 87 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 86 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 83 |
| 4 | Octadecane | 254 | C18H38 | 000593-45-3 | 80 |
| 5 | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 80 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

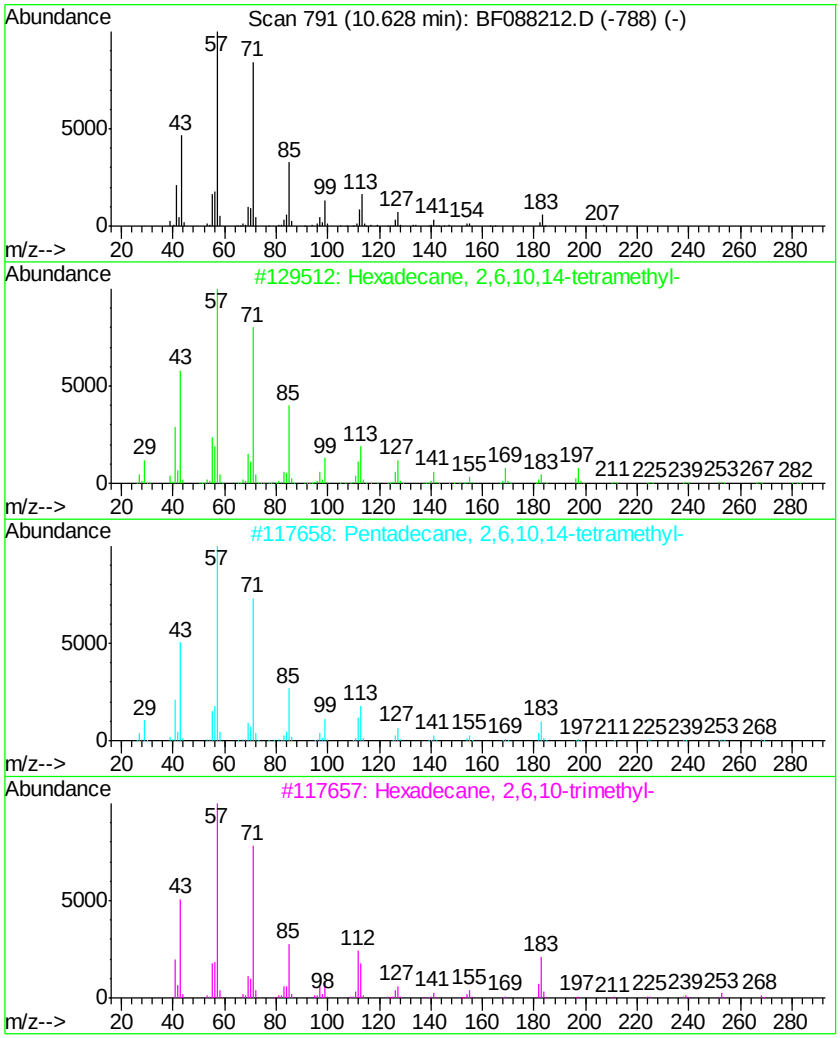
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

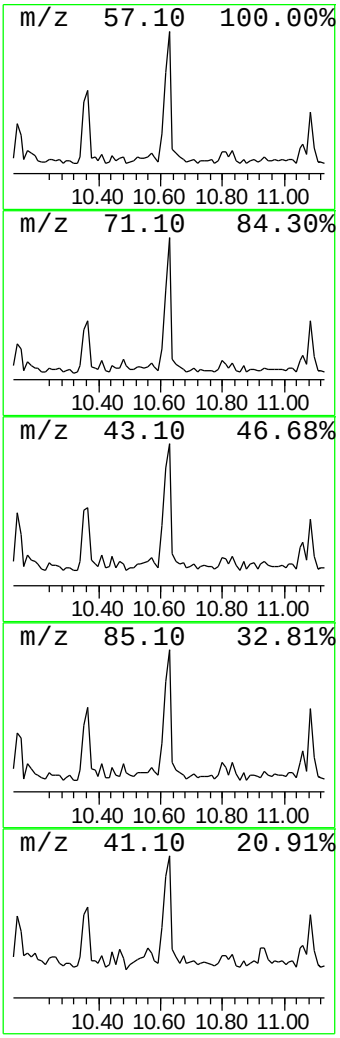
**********

Peak Number 17 Hexadecane, 2,6,10,14-tetra... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.63 | 12.26 ng | 318074 | Phenanthrene-d10 | 11.18 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane, 2,6,10,14-tetramethyl- | 282 | C20H42 | 000638-36-8 | 90 |
| 2 | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40 | 001921-70-6 | 86 |
| 3 | Hexadecane, 2,6,10-trimethyl- | 268 | C19H40 | 055000-52-7 | 86 |
| 4 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 80 |
| 5 | Heptacosane | 380 | C27H56 | 000593-49-7 | 78 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

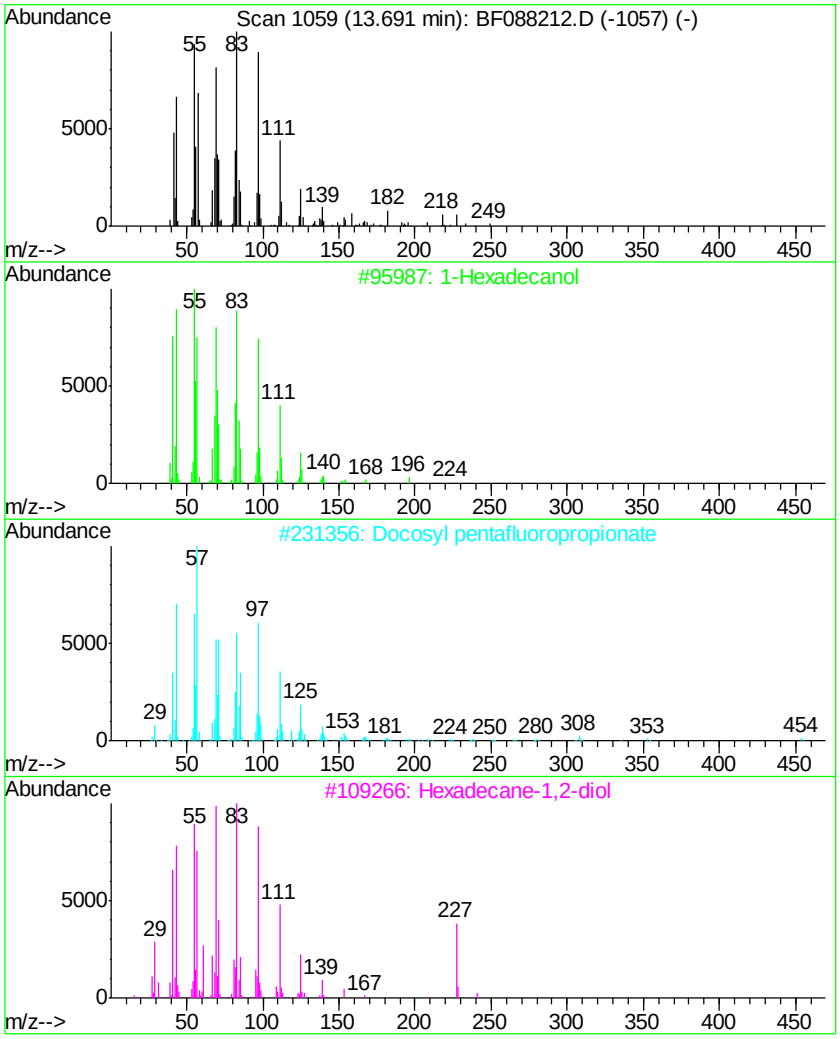
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

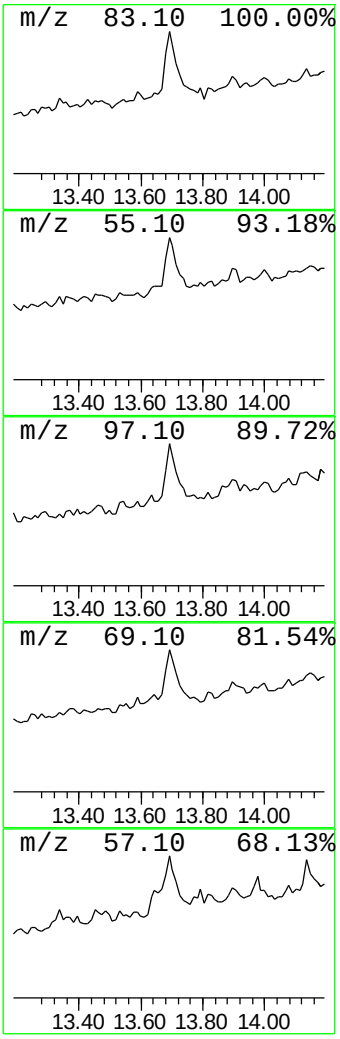
**********

Peak Number 19 1-Hexadecanol Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.69 | 4.08 ng | 108268 | Chrysene-d12 | 13.81 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexadecanol | 242 | C16H34O | 036653-82-4 | 76 |
| 2 | Docosyl pentafluoropropionate | 472 | C25H45F5O2 | 1000351-80-9 | 68 |
| 3 | Hexadecane-1,2-diol | 258 | C16H34O2 | 006920-24-7 | 68 |
| 4 | Trifluoroacetic acid,n-tridecyl ... | 296 | C15H27F3O2 | 053800-02-5 | 62 |
| 5 | Cyclopentane, 1-pentyl-2-propyl- | 182 | C13H26 | 062199-51-3 | 60 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

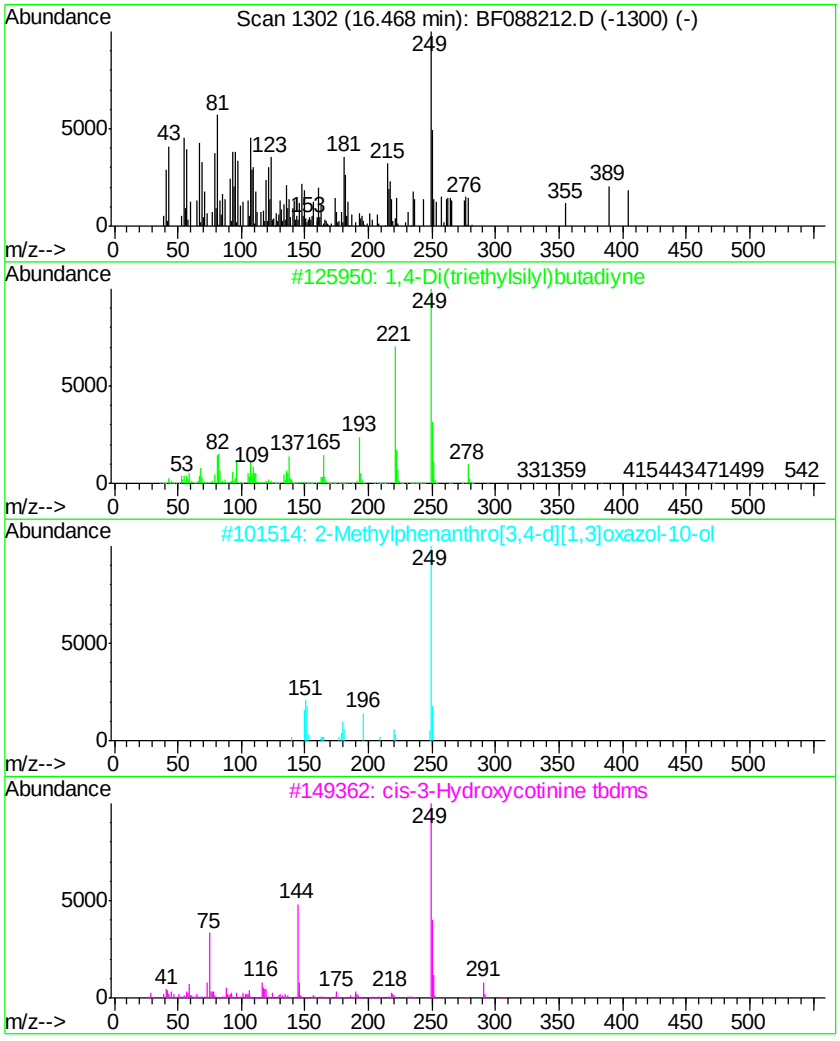
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

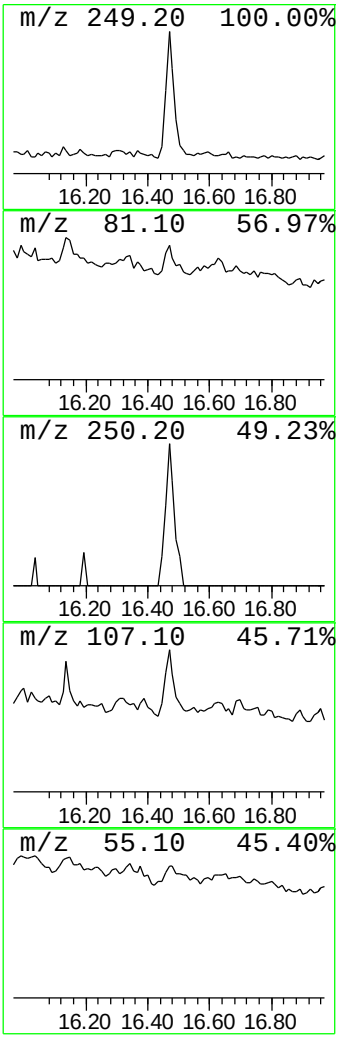
**********

Peak Number 20 unknown16.47 Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.47 | 4.75 ng | 129856 | Perylene-d12 | 15.18 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,4-Di(triethylsilyl)butadiyne | 278 | C16H30Si2 | 1000334-26-4 | 38 |
| 2 | 2-Methylphenanthro[3,4-d][1,3]ox... | 249 | C16H11NO2 | 098033-24-0 | 25 |
| 3 | cis-3-Hydroxycotinine tbdms | 306 | C16H26N2O2Si | 1000331-70-7 | 25 |
| 4 | Benzene, 1-nitro-2-hydroxy-4-(p-... | 249 | C12H8FNO4 | 189214-56-0 | 25 |
| 5 | 4H-1-Benzopyran-2-carboxylic aci... | 249 | C12H11NO5 | 030192-11-1 | 25 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF062016\
Data File : BF088212.D
Acq On : 21 Jun 2016 11:23
Operator : UM/SJ
Sample : H3580-21
Misc :
ALS Vial : 40 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 08-B6(8-16)C

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060716.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 |
| 2-Pentanone, 4-hy... | 4.82 | 4.1 | ng | 100994 | 1 | 6.67 | 498074 | 20.0 |
| Octane, 2,6-dimet... | 5.91 | 5.4 | ng | 134103 | 1 | 6.67 | 498074 | 20.0 |
| Undecane, 5,6-dim... | 6.10 | 3.5 | ng | 87891 | 1 | 6.67 | 498074 | 20.0 |
| unknown6.41 | 6.41 | 4.5 | ng | 110861 | 1 | 6.67 | 498074 | 20.0 |
| unknown6.44 | 6.44 | 72.3 | ng | 1799440 | 1 | 6.67 | 498074 | 20.0 |
| Nonane, 2-methyl-... | 6.79 | 3.8 | ng | 95253 | 1 | 6.67 | 498074 | 20.0 |
| unknown6.90 | 6.90 | 4.8 | ng | 119075 | 1 | 6.67 | 498074 | 20.0 |
| unknown7.31 | 7.31 | 4.4 | ng | 108616 | 1 | 6.67 | 498074 | 20.0 |
| trans-Decalin, 2-... | 7.59 | 4.8 | ng | 152921 | 2 | 7.95 | 638385 | 20.0 |
| Decane, 5,6-dipro... | 8.39 | 9.9 | ng | 316793 | 2 | 7.95 | 638385 | 20.0 |
| unknown9.13 | 9.13 | 5.4 | ng | 187084 | 3 | 9.70 | 689993 | 20.0 |
| Naphthalene, 1,4,... | 9.91 | 4.3 | ng | 148299 | 3 | 9.70 | 689993 | 20.0 |
| Pentadecane, 2,6,... | 10.36 | 4.7 | ng | 161608 | 3 | 9.70 | 689993 | 20.0 |
| Hexadecane, 2,6,1... | 10.63 | 12.3 | ng | 318074 | 4 | 11.18 | 518814 | 20.0 |
| 1-Hexadecanol | 13.69 | 4.1 | ng | 108268 | 5 | 13.81 | 530605 | 20.0 |
| unknown16.47 | 16.47 | 4.8 | ng | 129856 | 6 | 15.18 | 546213 | 20.0 |