LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

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-BF122116.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 | 4.819 | 236 | 239 | 243 | rBV | 665224 | 938884 | 18.72% | 0.856% |
| 2 | 5.230 | 271 | 275 | 278 | rBV4 | 114071 | 324560 | 6.47% | 0.296% |
| 3 | 5.287 | 278 | 280 | 282 | rVV | 1991605 | 2771289 | 55.26% | 2.526% |
| 4 | 5.676 | 310 | 314 | 315 | rBV2 | 122867 | 206336 | 4.11% | 0.188% |
| 5 | 5.813 | 323 | 326 | 329 | rBV2 | 232179 | 325980 | 6.50% | 0.297% |
| 6 | 5.916 | 333 | 335 | 338 | rVB | 360961 | 437837 | 8.73% | 0.399% |
| 7 | 5.973 | 338 | 340 | 344 | rBV2 | 161710 | 319882 | 6.38% | 0.292% |
| 8 | 6.110 | 349 | 352 | 355 | rBV4 | 108829 | 206437 | 4.12% | 0.188% |
| 9 | 6.202 | 356 | 360 | 365 | rVB3 | 241888 | 765085 | 15.26% | 0.697% |
| 10 | 6.270 | 365 | 366 | 368 | rBV2 | 238259 | 298927 | 5.96% | 0.272% |
| 11 | 6.339 | 370 | 372 | 377 | rVB2 | 1612236 | 2088291 | 41.64% | 1.904% |
| 12 | 6.419 | 377 | 379 | 380 | rBV | 162191 | 226624 | 4.52% | 0.207% |
| 13 | 6.453 | 380 | 382 | 385 | rVB | 4068623 | 3952927 | 78.82% | 3.603% |
| 14 | 6.636 | 394 | 398 | 400 | rBV2 | 259946 | 527555 | 10.52% | 0.481% |
| 15 | 6.682 | 400 | 402 | 403 | rVV | 1241123 | 1200983 | 23.95% | 1.095% |
| 16 | 6.739 | 406 | 407 | 412 | rBV4 | 241074 | 437076 | 8.72% | 0.398% |
| 17 | 6.842 | 413 | 416 | 420 | rVB2 | 3421661 | 5014933 | 100.00% | 4.571% |
| 18 | 6.933 | 420 | 424 | 429 | rBV3 | 574817 | 1118676 | 22.31% | 1.020% |
| 19 | 7.002 | 429 | 430 | 431 | rBV | 447266 | 462351 | 9.22% | 0.421% |
| 20 | 7.082 | 435 | 437 | 438 | rBV2 | 580827 | 810138 | 16.15% | 0.738% |
| 21 | 7.127 | 438 | 441 | 442 | rVB3 | 163033 | 280730 | 5.60% | 0.256% |
| 22 | 7.162 | 442 | 444 | 446 | rVB2 | 159584 | 258964 | 5.16% | 0.236% |
| 23 | 7.230 | 446 | 450 | 451 | rBV2 | 1799331 | 3016917 | 60.16% | 2.750% |
| 24 | 7.253 | 451 | 452 | 455 | rVV2 | 3324477 | 2938729 | 58.60% | 2.679% |
| 25 | 7.333 | 457 | 459 | 461 | rBV3 | 553766 | 794846 | 15.85% | 0.725% |
| 26 | 7.379 | 461 | 463 | 464 | rBV | 527478 | 620570 | 12.37% | 0.566% |
| 27 | 7.413 | 464 | 466 | 468 | rBV2 | 247250 | 363150 | 7.24% | 0.331% |
| 28 | 7.459 | 468 | 470 | 471 | rBV2 | 1058377 | 1068411 | 21.30% | 0.974% |
| 29 | 7.493 | 471 | 473 | 474 | rVB | 732216 | 931089 | 18.57% | 0.849% |
| 30 | 7.550 | 474 | 478 | 479 | rBV3 | 213815 | 341941 | 6.82% | 0.312% |
| 31 | 7.607 | 479 | 483 | 484 | rBV3 | 531739 | 1151357 | 22.96% | 1.050% |
| 32 | 7.642 | 484 | 486 | 489 | rVB3 | 765231 | 1283146 | 25.59% | 1.170% |
| 33 | 7.710 | 489 | 492 | 494 | rBV | 2609200 | 3232016 | 64.45% | 2.946% |
| 34 | 7.813 | 497 | 501 | 502 | rVB4 | 971894 | 1617321 | 32.25% | 1.474% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

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-BF122116.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 7.847 | 502 | 504 | 506 | rBV2 | 378862 | 627260 | 12.51% | 0.572% |
| 36 | 7.927 | 508 | 511 | 512 | rBV2 | 470729 | 1112385 | 22.18% | 1.014% |
| 37 | 7.973 | 512 | 515 | 520 | rVB3 | 1618705 | 4648916 | 92.70% | 4.238% |
| 38 | 8.099 | 525 | 526 | 527 | rVB | 376792 | 258479 | 5.15% | 0.236% |
| 39 | 8.133 | 527 | 529 | 530 | rBV2 | 263259 | 388171 | 7.74% | 0.354% |
| 40 | 8.168 | 530 | 532 | 534 | rVV3 | 354468 | 512311 | 10.22% | 0.467% |
| 41 | 8.213 | 534 | 536 | 537 | rVV2 | 593305 | 762651 | 15.21% | 0.695% |
| 42 | 8.236 | 537 | 538 | 540 | rVV2 | 543895 | 1002046 | 19.98% | 0.913% |
| 43 | 8.305 | 542 | 544 | 545 | rVV2 | 134069 | 242976 | 4.85% | 0.221% |
| 44 | 8.362 | 546 | 549 | 550 | rVV3 | 339549 | 628178 | 12.53% | 0.573% |
| 45 | 8.408 | 550 | 553 | 555 | rVV | 1384454 | 1822193 | 36.34% | 1.661% |
| 46 | 8.442 | 555 | 556 | 557 | rVV | 635818 | 575533 | 11.48% | 0.525% |
| 47 | 8.476 | 557 | 559 | 561 | rVV3 | 745422 | 842417 | 16.80% | 0.768% |
| 48 | 8.568 | 565 | 567 | 570 | rVV3 | 382048 | 699589 | 13.95% | 0.638% |
| 49 | 8.636 | 570 | 573 | 574 | rVV2 | 602644 | 990273 | 19.75% | 0.903% |
| 50 | 8.682 | 574 | 577 | 579 | rVB2 | 2142054 | 2758863 | 55.01% | 2.515% |
| 51 | 8.739 | 579 | 582 | 584 | rBV2 | 837200 | 1750396 | 34.90% | 1.596% |
| 52 | 8.785 | 584 | 586 | 589 | rVB | 2612973 | 2747845 | 54.79% | 2.505% |
| 53 | 8.876 | 591 | 594 | 596 | rBV4 | 342420 | 944085 | 18.83% | 0.861% |
| 54 | 8.922 | 596 | 598 | 600 | rBV | 227991 | 249832 | 4.98% | 0.228% |
| 55 | 9.002 | 602 | 605 | 607 | rVB2 | 1245084 | 1687534 | 33.65% | 1.538% |
| 56 | 9.048 | 607 | 609 | 612 | rBV | 4441496 | 4387562 | 87.49% | 4.000% |
| 57 | 9.139 | 614 | 617 | 618 | rBV2 | 585201 | 890976 | 17.77% | 0.812% |
| 58 | 9.310 | 630 | 632 | 635 | rVB | 541497 | 692559 | 13.81% | 0.631% |
| 59 | 9.379 | 636 | 638 | 640 | rVV2 | 1048120 | 1603927 | 31.98% | 1.462% |
| 60 | 9.459 | 643 | 645 | 646 | rVV2 | 938216 | 1181935 | 23.57% | 1.077% |
| 61 | 9.493 | 646 | 648 | 651 | rVB4 | 277793 | 559329 | 11.15% | 0.510% |
| 62 | 9.585 | 653 | 656 | 659 | rBV5 | 388934 | 783148 | 15.62% | 0.714% |
| 63 | 9.665 | 661 | 663 | 665 | rBV2 | 612291 | 792186 | 15.80% | 0.722% |
| 64 | 9.722 | 665 | 668 | 670 | rBV | 1839417 | 2068747 | 41.25% | 1.886% |
| 65 | 9.916 | 681 | 685 | 687 | rVB3 | 590580 | 1058999 | 21.12% | 0.965% |
| 66 | 9.962 | 687 | 689 | 690 | rBV2 | 264153 | 374540 | 7.47% | 0.341% |
| 67 | 9.996 | 690 | 692 | 694 | rBV3 | 221655 | 468103 | 9.33% | 0.427% |
| 68 | 10.031 | 694 | 695 | 697 | rVB2 | 270278 | 306280 | 6.11% | 0.279% |
| 69 | 10.156 | 702 | 706 | 709 | rVB4 | 583615 | 1299590 | 25.91% | 1.185% |
| 70 | 10.293 | 716 | 718 | 720 | rVB2 | 250288 | 317238 | 6.33% | 0.289% |
| 71 | 10.385 | 724 | 726 | 727 | rVV | 458595 | 526364 | 10.50% | 0.480% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

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-BF122116.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 10.419 | 727 | 729 | 732 | rVV3 | 201074 | 383688 | 7.65% | 0.350% |
| 73 | 10.465 | 732 | 733 | 734 | rVV | 293093 | 292207 | 5.83% | 0.266% |
| 74 | 10.511 | 734 | 737 | 739 | rVV2 | 3128671 | 3304199 | 65.89% | 3.012% |
| 75 | 10.591 | 743 | 744 | 746 | rVV | 309449 | 323852 | 6.46% | 0.295% |
| 76 | 10.648 | 746 | 749 | 752 | rVV2 | 1457375 | 2761359 | 55.06% | 2.517% |
| 77 | 10.705 | 752 | 754 | 755 | rVV | 773633 | 837037 | 16.69% | 0.763% |
| 78 | 10.739 | 755 | 757 | 758 | rVV | 768647 | 953716 | 19.02% | 0.869% |
| 79 | 10.773 | 758 | 760 | 763 | rVV2 | 617834 | 1110626 | 22.15% | 1.012% |
| 80 | 10.831 | 763 | 765 | 768 | rVV2 | 389852 | 857644 | 17.10% | 0.782% |
| 81 | 10.876 | 768 | 769 | 771 | rVB2 | 499944 | 544764 | 10.86% | 0.497% |
| 82 | 10.922 | 771 | 773 | 775 | rBV | 587688 | 752072 | 15.00% | 0.686% |
| 83 | 10.968 | 775 | 777 | 780 | rVB2 | 992607 | 1441864 | 28.75% | 1.314% |
| 84 | 11.082 | 785 | 787 | 788 | rVV | 584912 | 639150 | 12.74% | 0.583% |
| 85 | 11.105 | 788 | 789 | 791 | rVB | 651247 | 664185 | 13.24% | 0.605% |
| 86 | 11.196 | 795 | 797 | 800 | rVB | 1323344 | 1298874 | 25.90% | 1.184% |
| 87 | 11.242 | 800 | 801 | 805 | rBV2 | 183700 | 302899 | 6.04% | 0.276% |
| 88 | 11.505 | 823 | 824 | 826 | rVB | 409381 | 316597 | 6.31% | 0.289% |
| 89 | 11.756 | 843 | 846 | 849 | rVB | 483687 | 705570 | 14.07% | 0.643% |
| 90 | 11.871 | 855 | 856 | 858 | rBV2 | 112569 | 198912 | 3.97% | 0.181% |
| 91 | 11.916 | 858 | 860 | 864 | rVB3 | 229719 | 556120 | 11.09% | 0.507% |
| 92 | 12.294 | 892 | 893 | 899 | rVB2 | 182772 | 323463 | 6.45% | 0.295% |
| 93 | 12.534 | 911 | 914 | 922 | rVB2 | 650255 | 978857 | 19.52% | 0.892% |
| 94 | 12.682 | 924 | 927 | 934 | rVB2 | 297873 | 535071 | 10.67% | 0.488% |
| 95 | 12.785 | 934 | 936 | 938 | rBV | 3689749 | 3520112 | 70.19% | 3.209% |
| 96 | 13.368 | 984 | 987 | 989 | rBV2 | 312679 | 354341 | 7.07% | 0.323% |
| 97 | 13.688 | 1013 | 1015 | 1021 | rVB2 | 179903 | 275625 | 5.50% | 0.251% |
| 98 | 13.825 | 1025 | 1027 | 1030 | rVB | 1192407 | 1134628 | 22.62% | 1.034% |
| 99 | 14.477 | 1081 | 1084 | 1093 | rVB | 135903 | 324511 | 6.47% | 0.296% |
| 100 | 15.208 | 1146 | 1148 | 1151 | rBV | 916858 | 1111499 | 22.16% | 1.013% |

Sum of corrected areas: 109700816

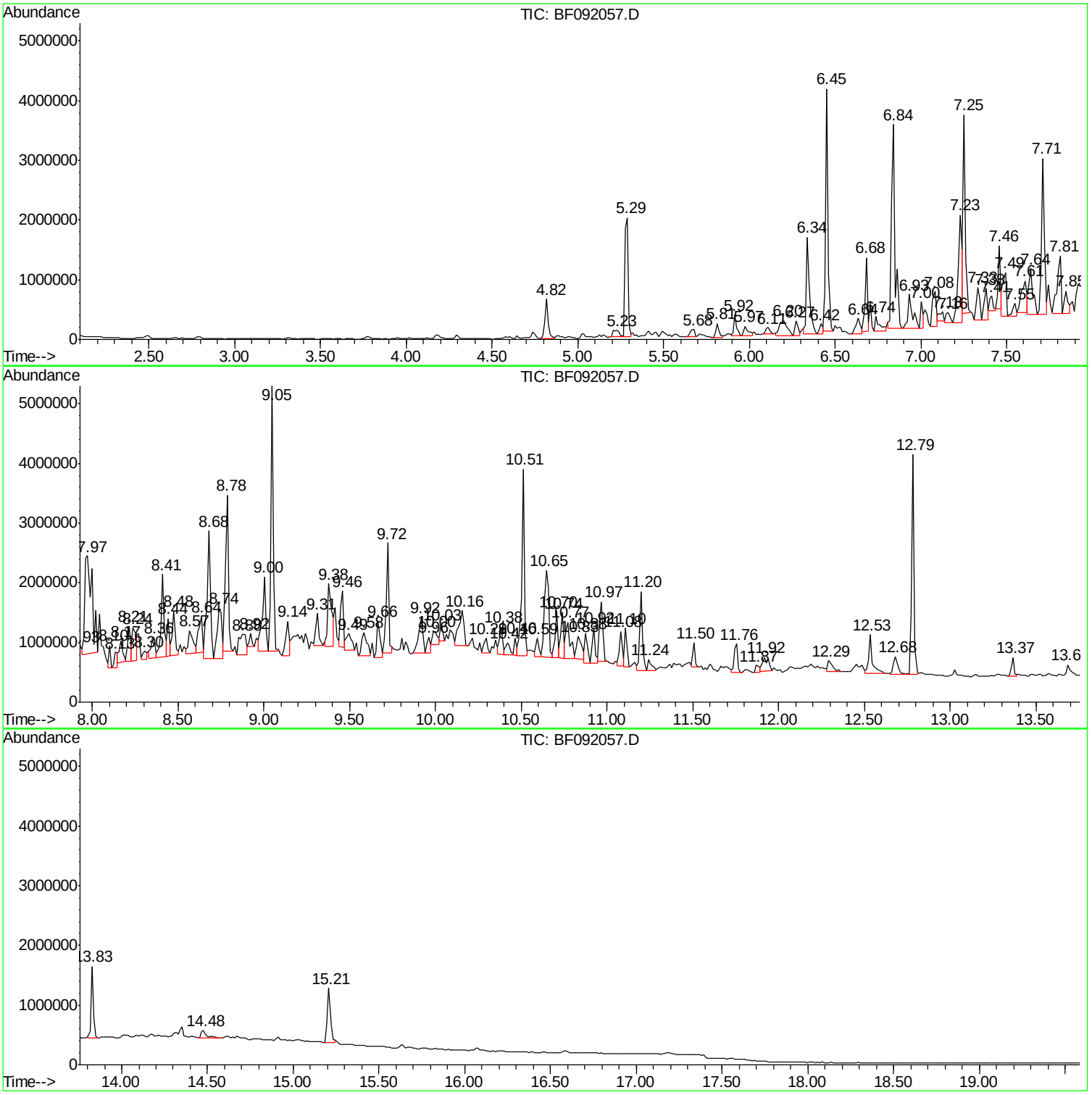
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

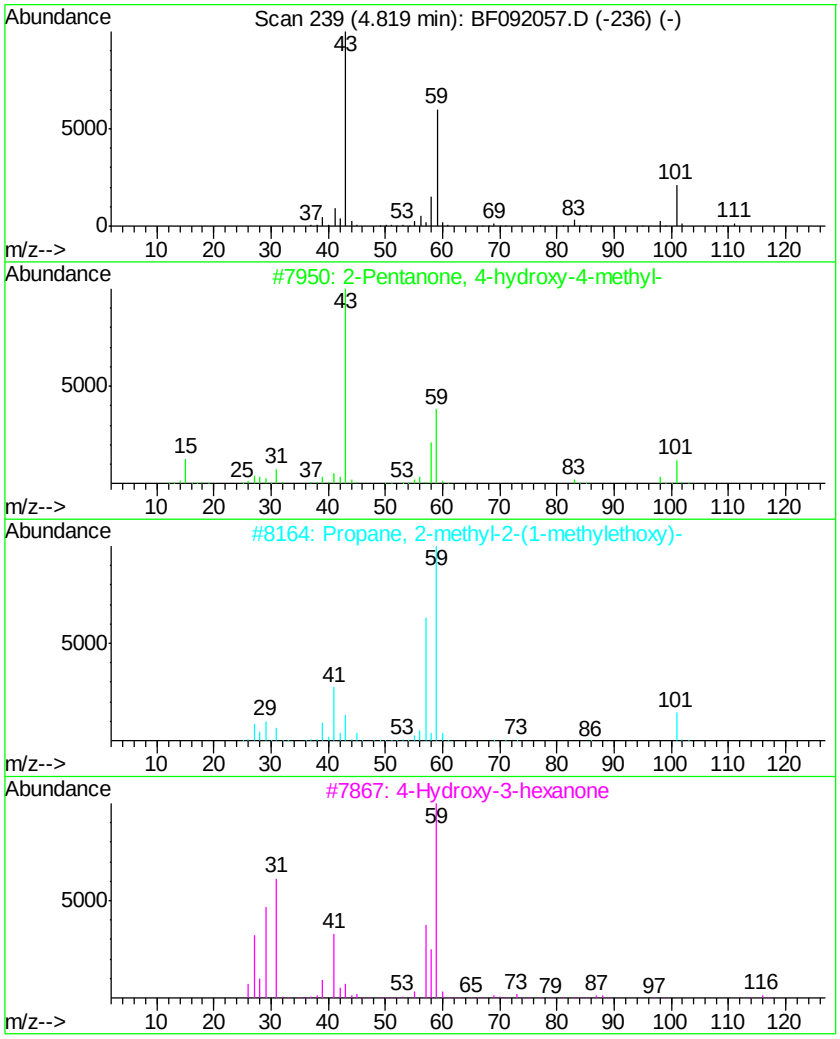
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

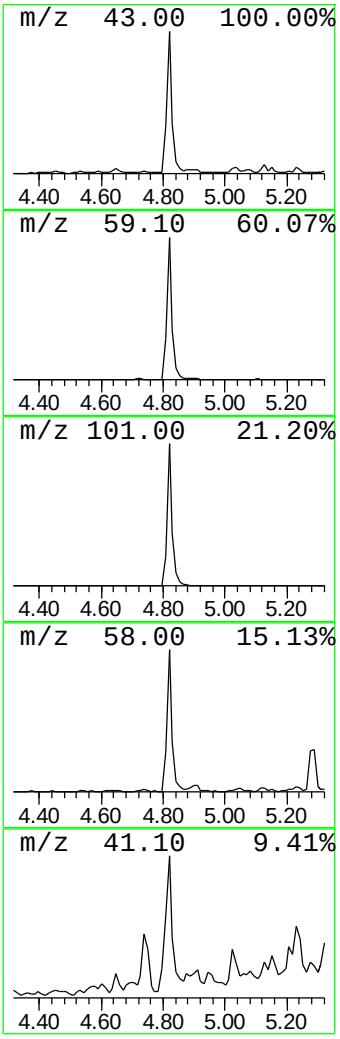
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.82 | 15.64 ng | 938884 | 1,4-Dichlorobenzene-d4 | 6.68 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O | 017348-59-3 | 53 |
| 3 | 4-Hydroxy-3-hexanone | 116 | C6H12O2 | 004984-85-4 | 23 |
| 4 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |
| 5 | 3-Hydroxy-3-methyl-2-butanone | 102 | C5H10O2 | 000115-22-0 | 17 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

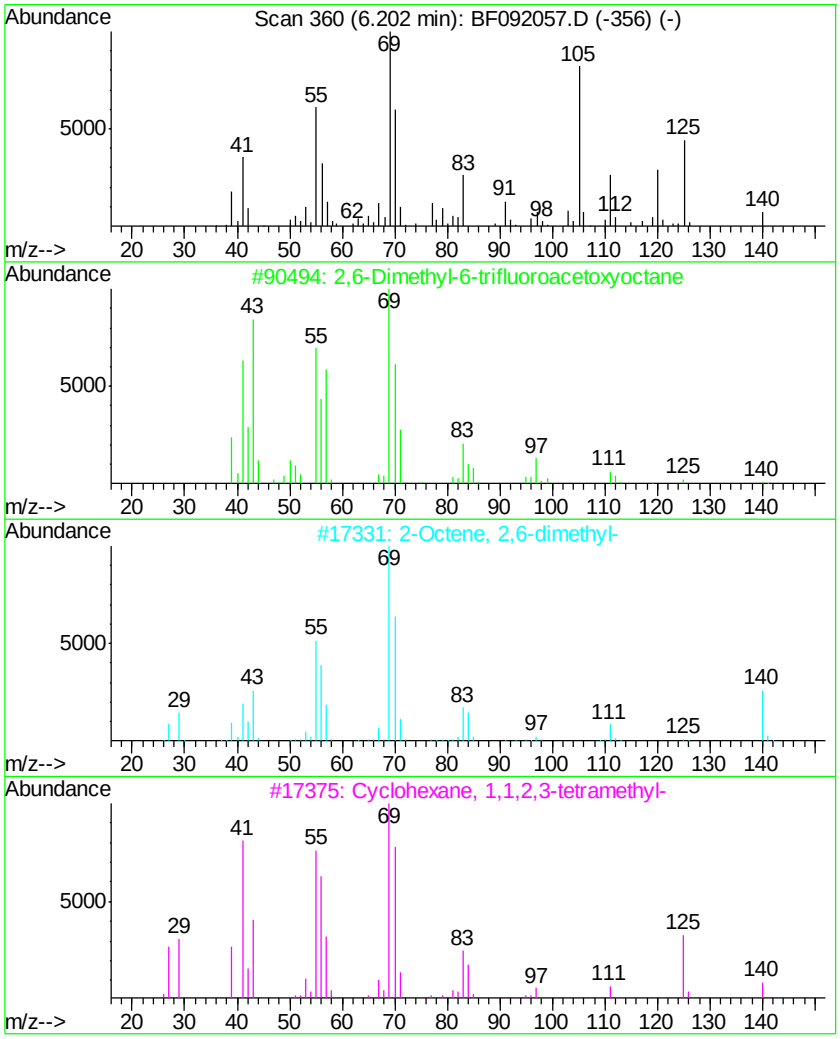
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

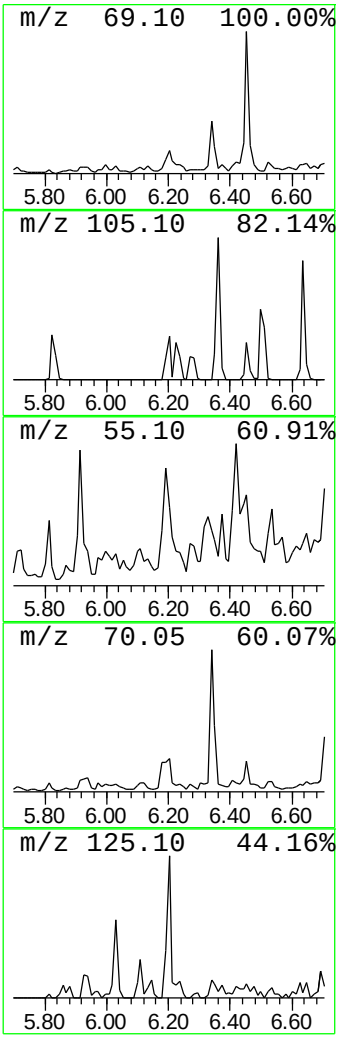
**********

Peak Number 2 unknown6.20 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.20 | 12.74 ng | 765085 | 1,4-Dichlorobenzene-d4 | 6.68 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,6-Dimethyl-6-trifluoroacetoxyo... | 254 | C12H21F3O2 | 061986-67-2 | 47 |
| 2 | 2-Octene, 2,6-dimethyl- | 140 | C10H20 | 004057-42-5 | 47 |
| 3 | Cyclohexane, 1,1,2,3-tetramethyl- | 140 | C10H20 | 006783-92-2 | 47 |
| 4 | 3-Nonene, 3-methyl-, (E)- | 140 | C10H20 | 069405-42-1 | 43 |
| 5 | Cyclohexane, 2-ethyl-1,3-dimethyl- | 140 | C10H20 | 007045-67-2 | 38 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

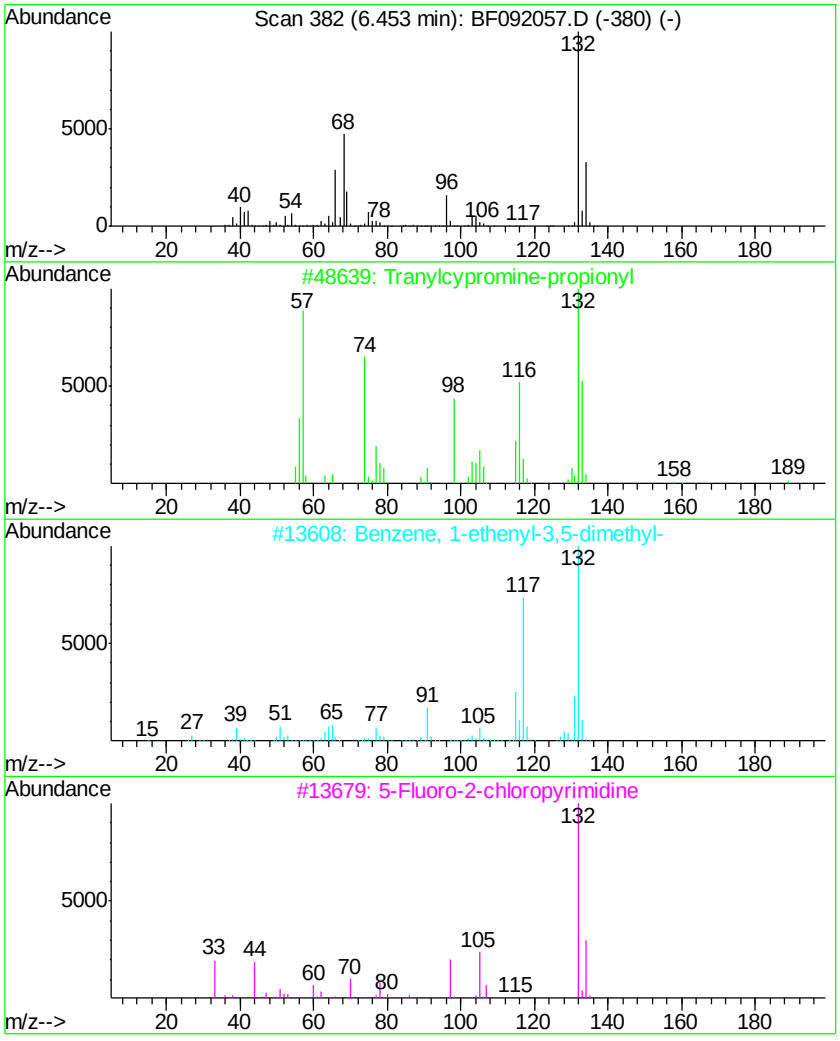
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

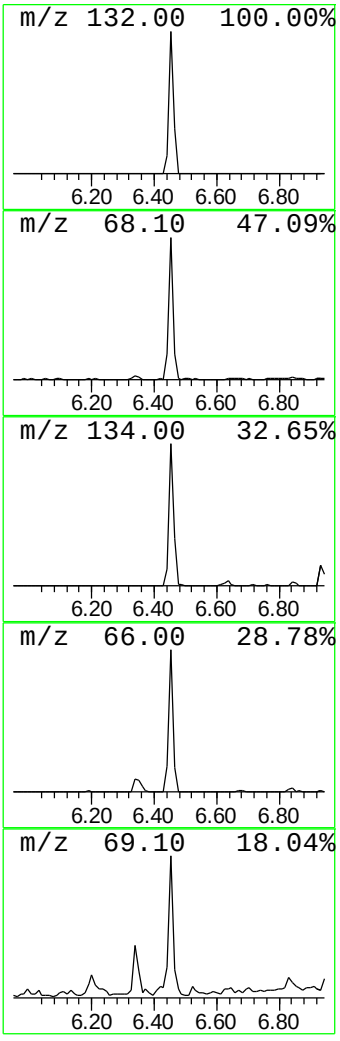
**********

Peak Number 3 unknown6.45 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.45 | 65.83 ng | 3952930 | 1,4-Dichlorobenzene-d4 | 6.68 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 2 | Benzene, 1-ethenyl-3,5-dimethyl- | 132 | C10H12 | 005379-20-4 | 9 |
| 3 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 9 |
| 4 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |
| 5 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

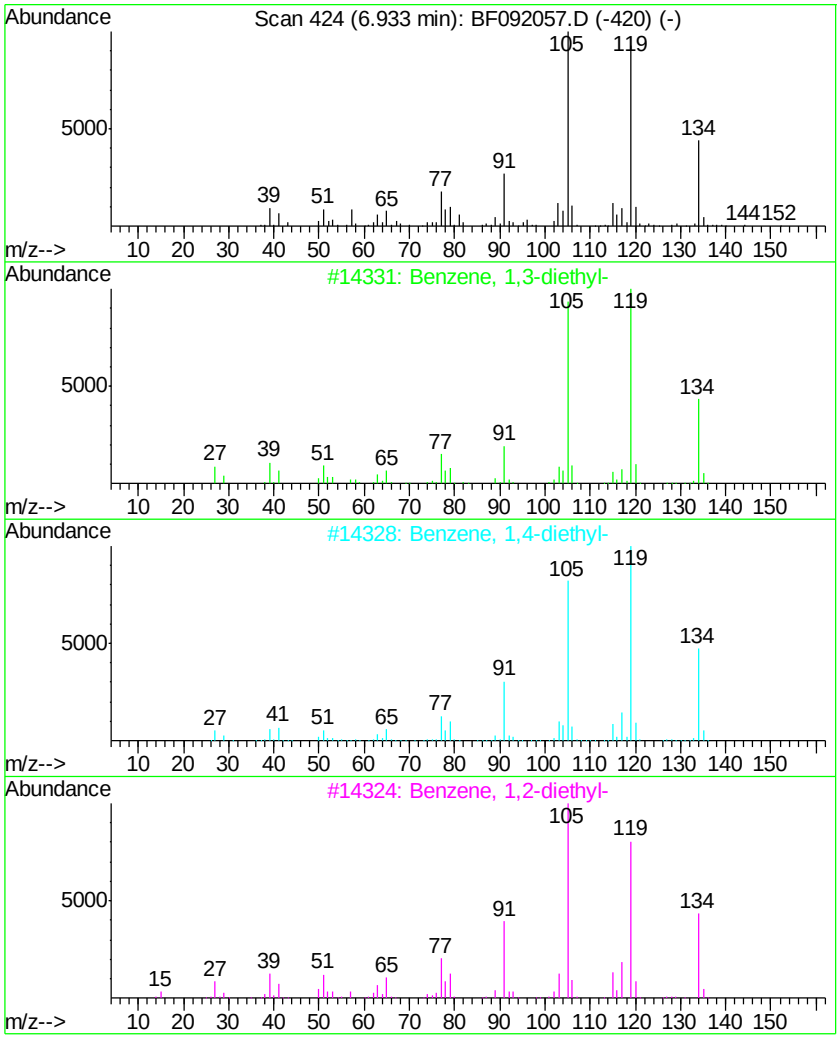
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

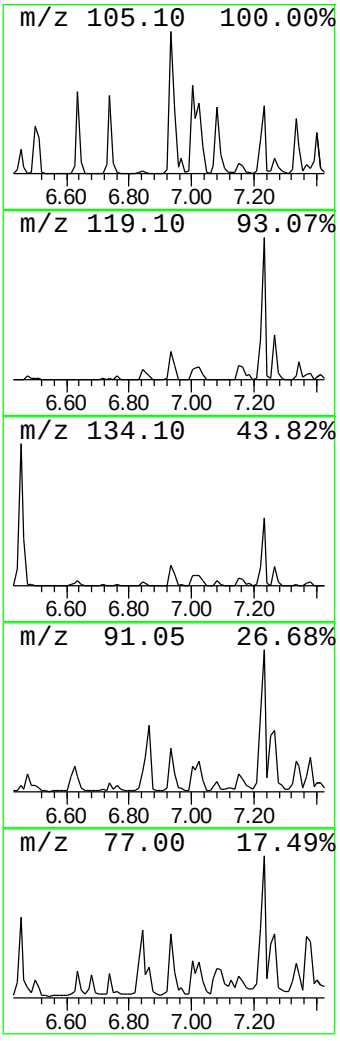
**********

Peak Number 5 Benzene, 1,3-diethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.93 | 18.63 ng | 1118680 | 1,4-Dichlorobenzene-d4 | 6.68 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 97 |
| 2 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 94 |
| 3 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 94 |
| 4 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 91 |
| 5 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 91 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

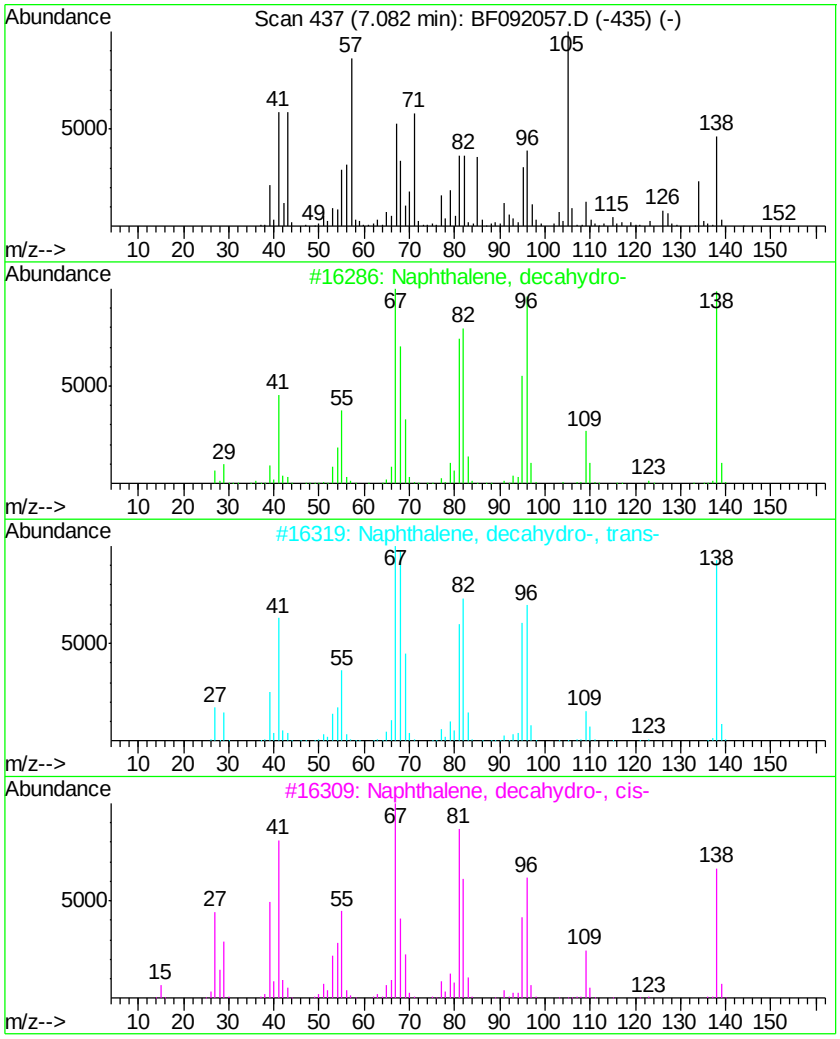
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

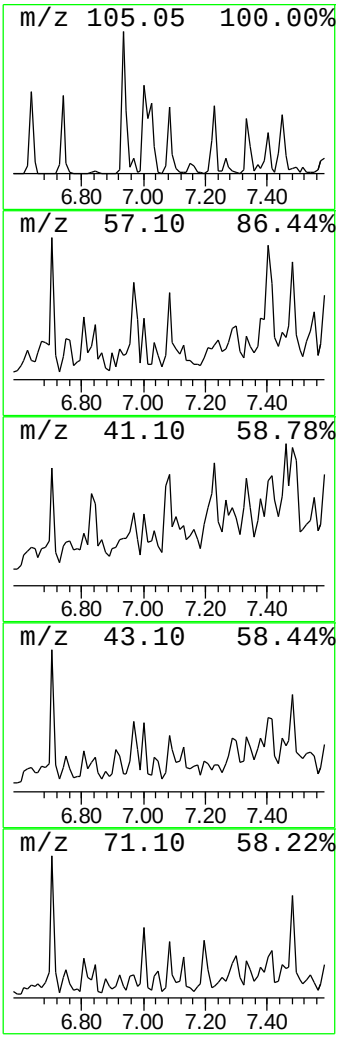
**********

Peak Number 6 unknown7.08 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.08 | 13.49 ng | 810138 | 1,4-Dichlorobenzene-d4 | 6.68 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, decahydro- | 138 | C10H18 | 000091-17-8 | 46 |
| 2 | Naphthalene, decahydro-, trans- | 138 | C10H18 | 000493-02-7 | 45 |
| 3 | Naphthalene, decahydro-, cis- | 138 | C10H18 | 000493-01-6 | 41 |
| 4 | Cyclopentanone, 2-(2-methylpropy... | 138 | C9H14O | 016856-72-7 | 38 |
| 5 | Cyclohexanol, 5-methyl-2-(1-meth... | 156 | C10H20O | 015356-70-4 | 27 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

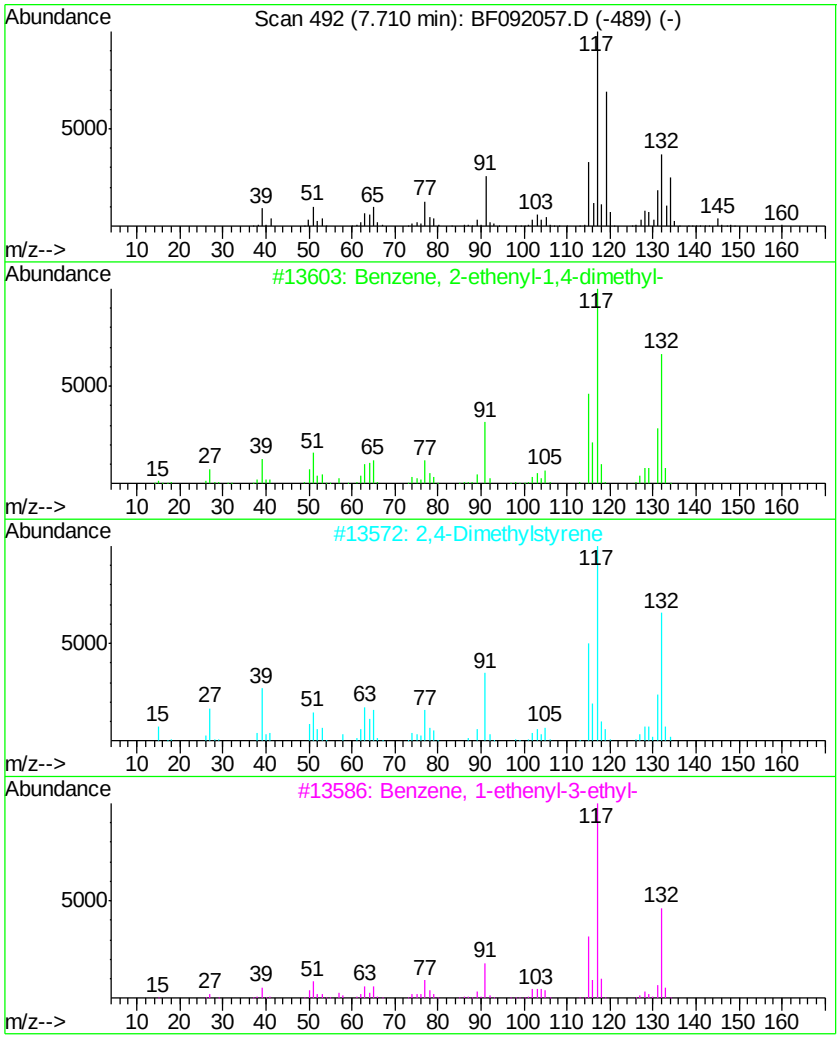
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

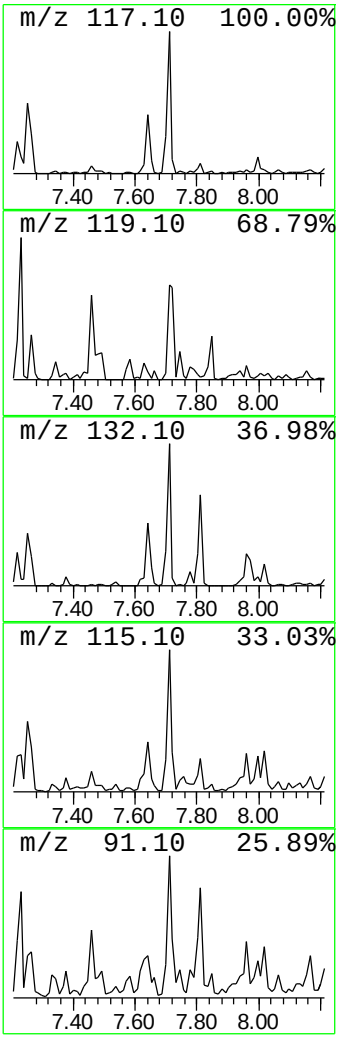
**********

Peak Number 7 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.71 | 13.90 ng | 3232020 | Naphthalene-d8 | 7.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 90 |
| 2 | 2,4-Dimethylstyrene | 132 | C10H12 | 002234-20-0 | 90 |
| 3 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 64 |
| 4 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 64 |
| 5 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 64 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

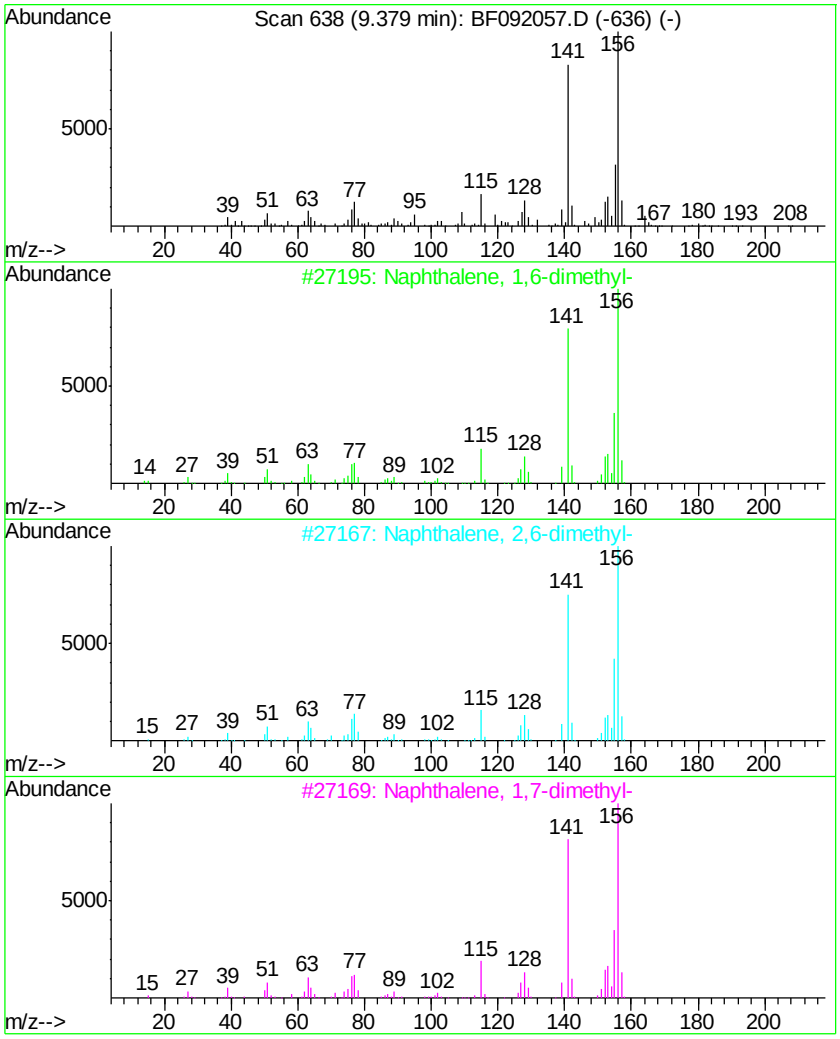
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

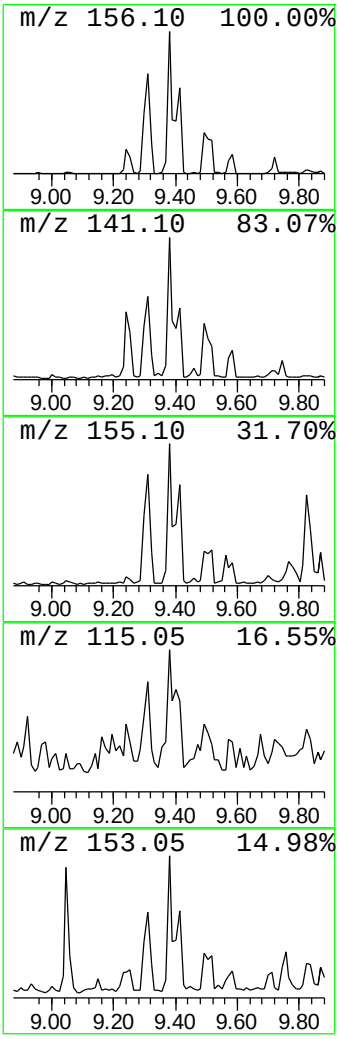
**********

Peak Number 9 Naphthalene, 1,6-dimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.38 | 15.51 ng | 1603930 | Acenaphthene-d10 | 9.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 98 |
| 2 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 98 |
| 3 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 98 |
| 4 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 97 |
| 5 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 97 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

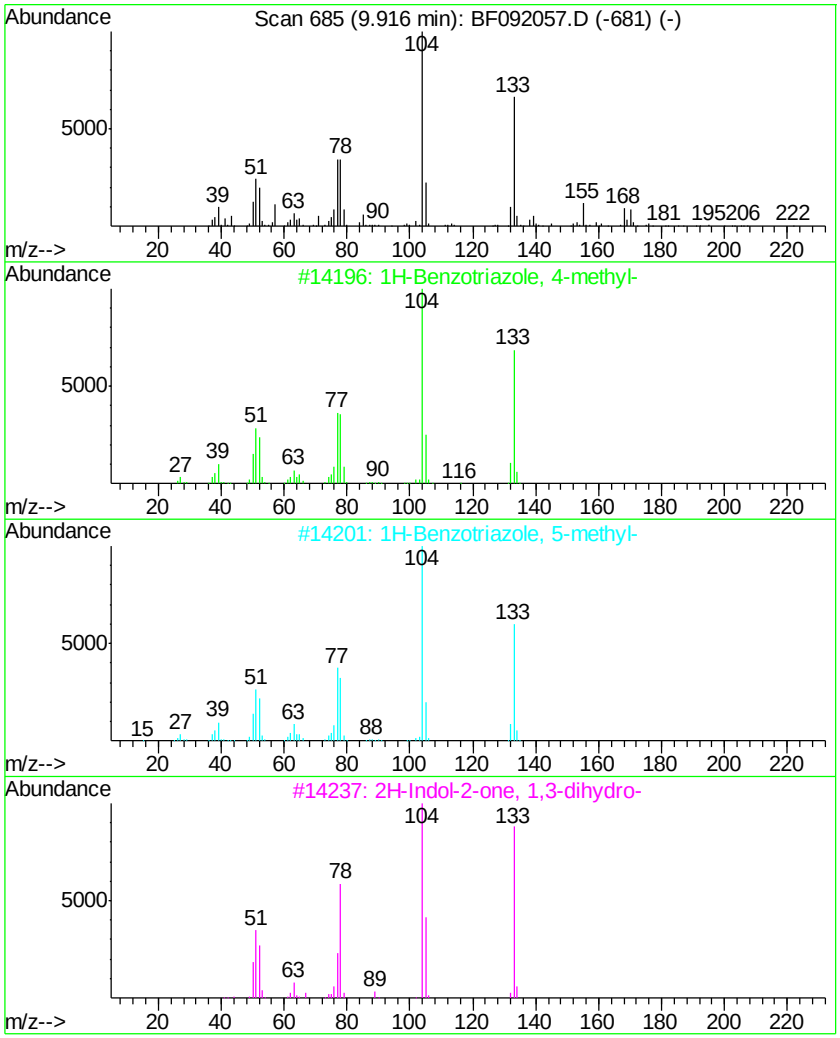
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

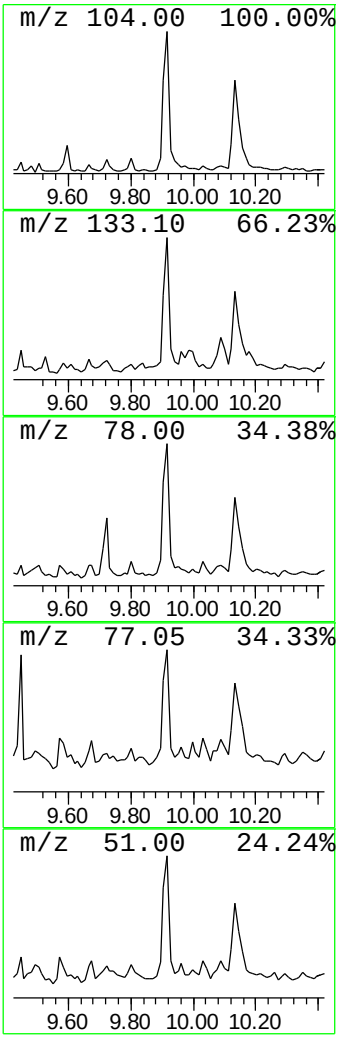
**********

Peak Number 10 1H-Benzotriazole, 4-methyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.92 | 10.24 ng | 1059000 | Acenaphthene-d10 | 9.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Benzotriazole, 4-methyl- | 133 | C7H7N3 | 029878-31-7 | 98 |
| 2 | 1H-Benzotriazole, 5-methyl- | 133 | C7H7N3 | 000136-85-6 | 96 |
| 3 | 2H-Indol-2-one, 1,3-dihydro- | 133 | C8H7NO | 000059-48-3 | 70 |
| 4 | Benzene, 1-azido-2-methyl- | 133 | C7H7N3 | 031656-92-5 | 64 |
| 5 | Benzene, 1-isocyanato-2-methyl- | 133 | C8H7NO | 000614-68-6 | 52 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

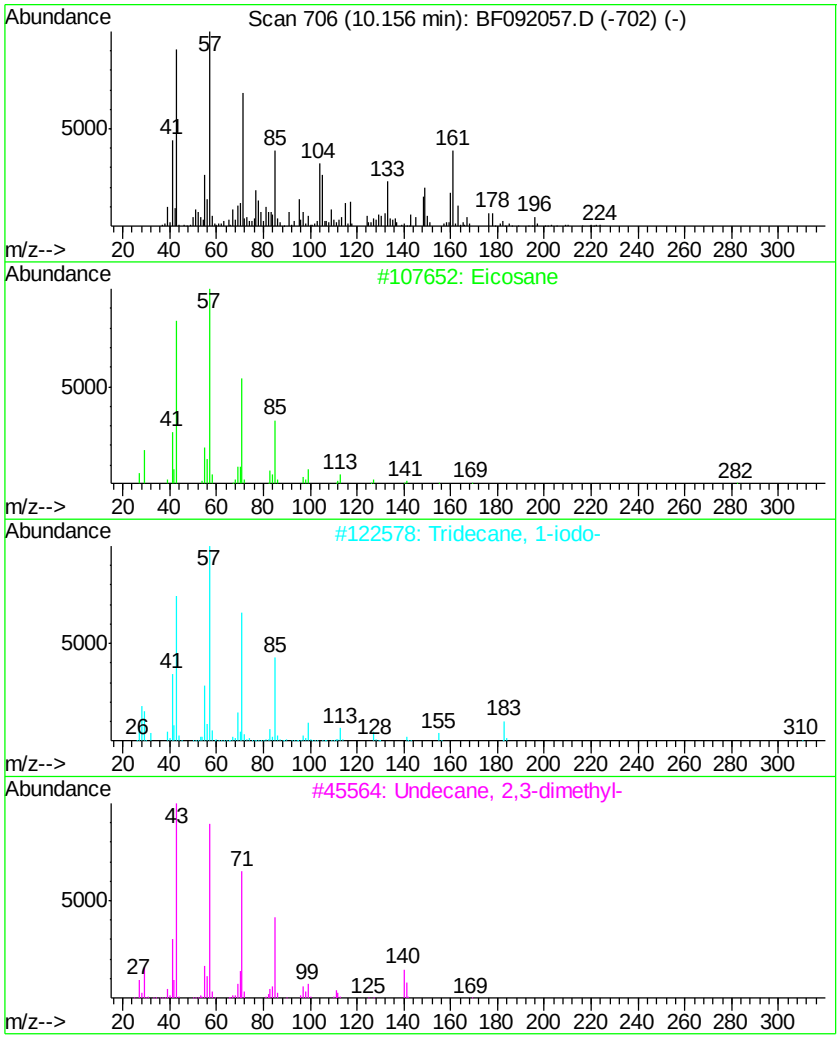
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

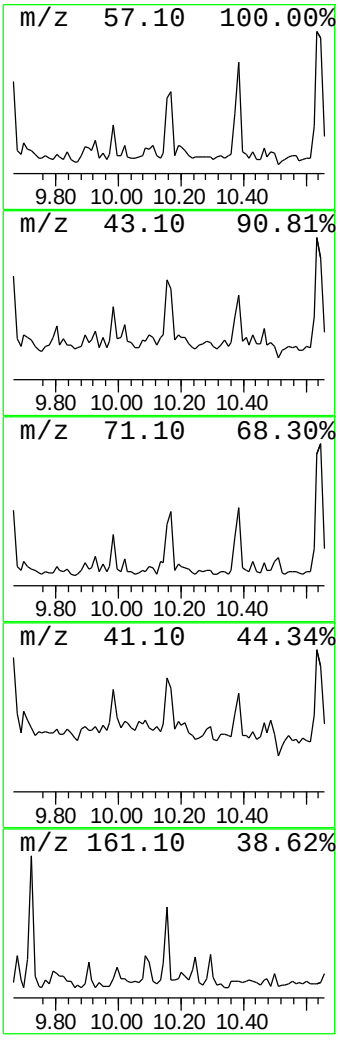
**********

Peak Number 11 unknown10.16 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.16 | 12.56 ng | 1299590 | Acenaphthene-d10 | 9.72 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eicosane | 282 | C20H42 | 000112-95-8 | 30 |
| 2 | Tridecane, 1-iodo- | 310 | C13H27I | 035599-77-0 | 25 |
| 3 | Undecane, 2,3-dimethyl- | 184 | C13H28 | 017312-77-5 | 22 |
| 4 | Tetradecane, 1-iodo- | 324 | C14H29I | 019218-94-1 | 22 |
| 5 | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 22 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

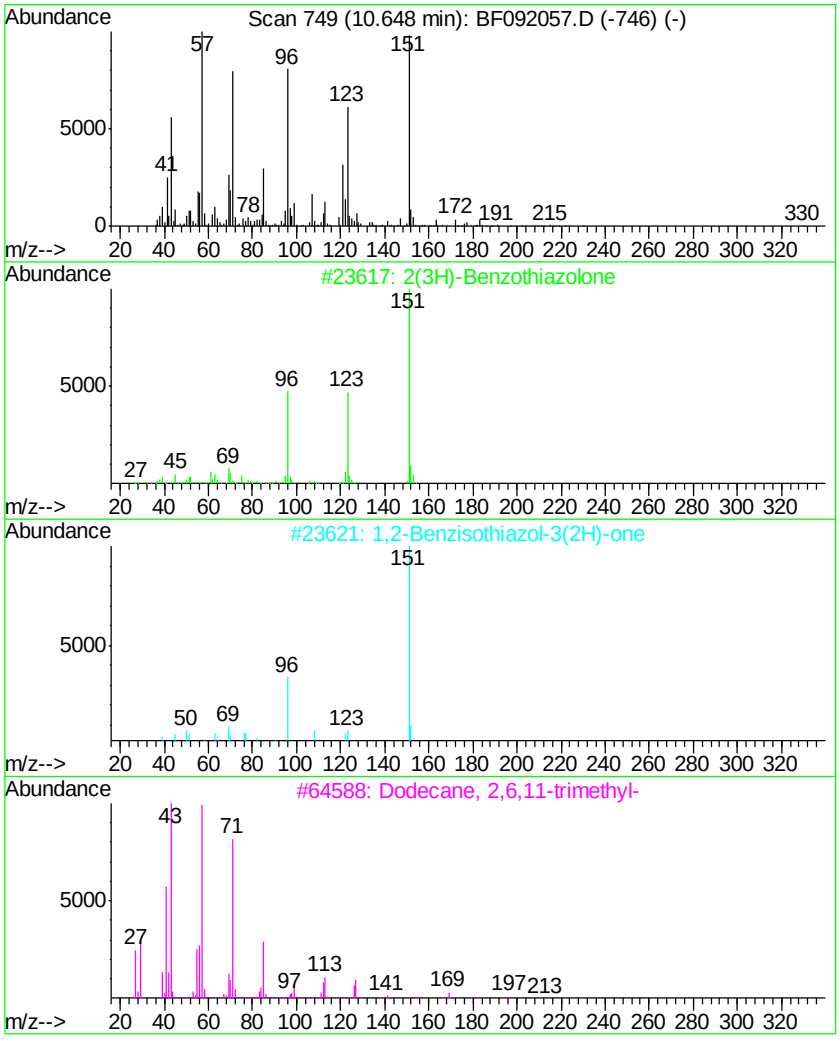
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

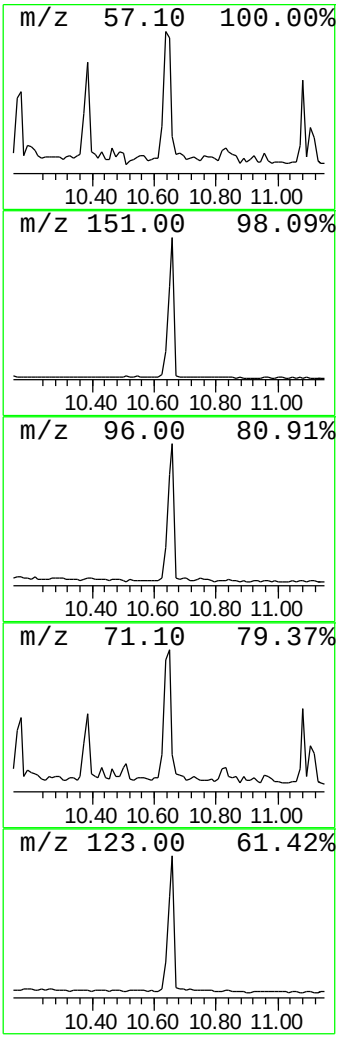
**********

Peak Number 12 2(3H)-Benzothiazolone Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.65 | 42.52 ng | 2761360 | Phenanthrene-d10 | 11.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2(3H)-Benzothiazolone | 151 | C7H5NOS | 000934-34-9 | 90 |
| 2 | 1,2-Benzisothiazol-3(2H)-one | 151 | C7H5NOS | 002634-33-5 | 43 |
| 3 | Dodecane, 2,6,11-trimethyl- | 212 | C15H32 | 031295-56-4 | 35 |
| 4 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 18 |
| 5 | Undecane, 4,6-dimethyl- | 184 | C13H28 | 017312-82-2 | 18 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

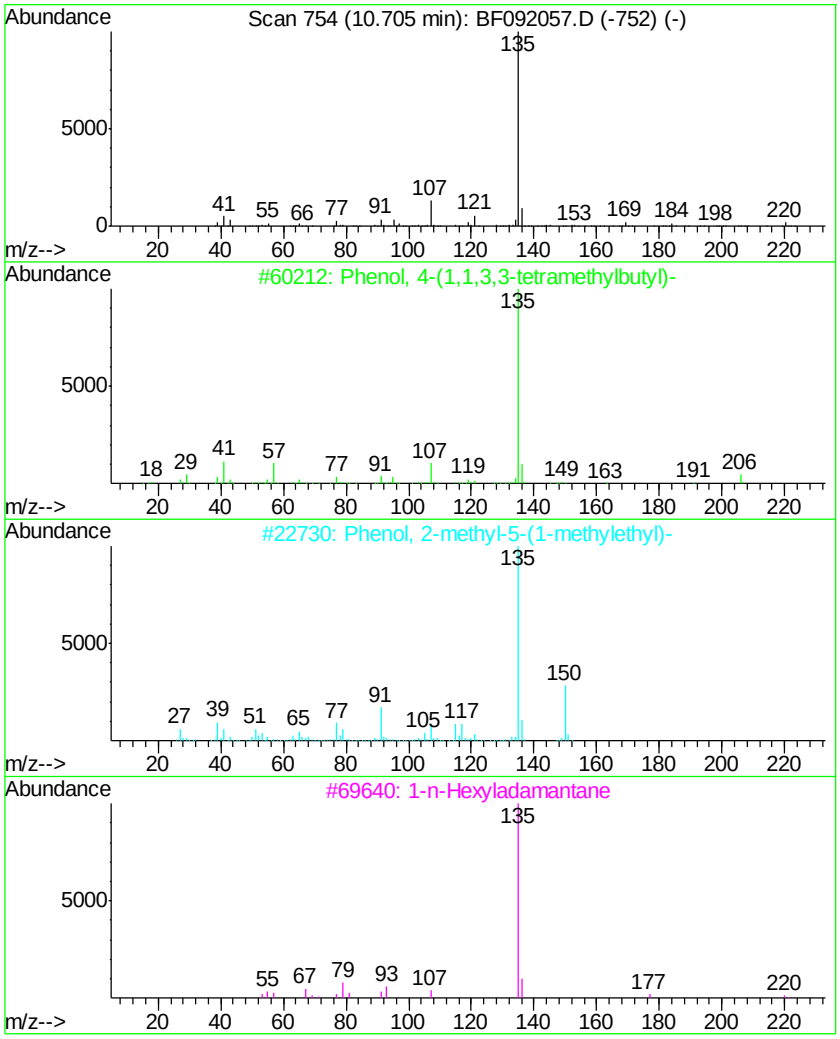
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

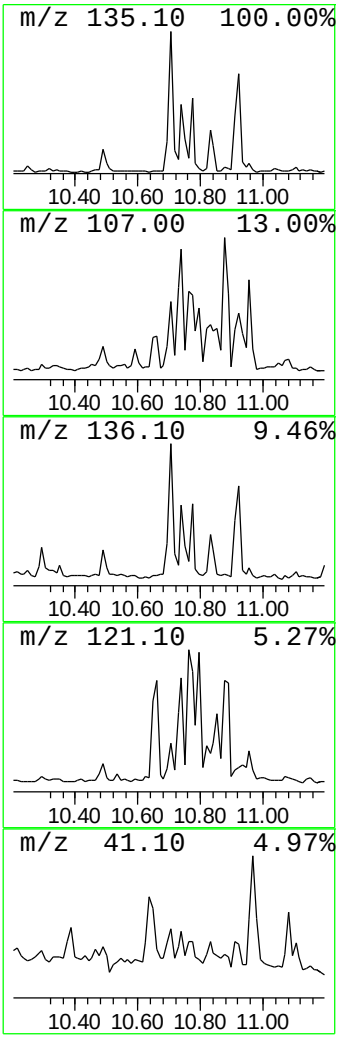
**********

Peak Number 13 Phenol, 4-(1,1,3,3-tetramet... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.70 | 12.89 ng | 837037 | Phenanthrene-d10 | 11.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 4-(1,1,3,3-tetramethylbu... | 206 | C14H22O | 000140-66-9 | 72 |
| 2 | Phenol, 2-methyl-5-(1-methylethyl)- | 150 | C10H14O | 000499-75-2 | 64 |
| 3 | 1-n-Hexyladamantane | 220 | C16H28 | 022458-75-9 | 64 |
| 4 | Phenol, 4-(1,1-dimethylpropyl)- | 164 | C11H16O | 000080-46-6 | 56 |
| 5 | Carbamic acid, N-[1,1-bis(triflu... | 413 | C19H25F6NO2 | 296242-69-8 | 50 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

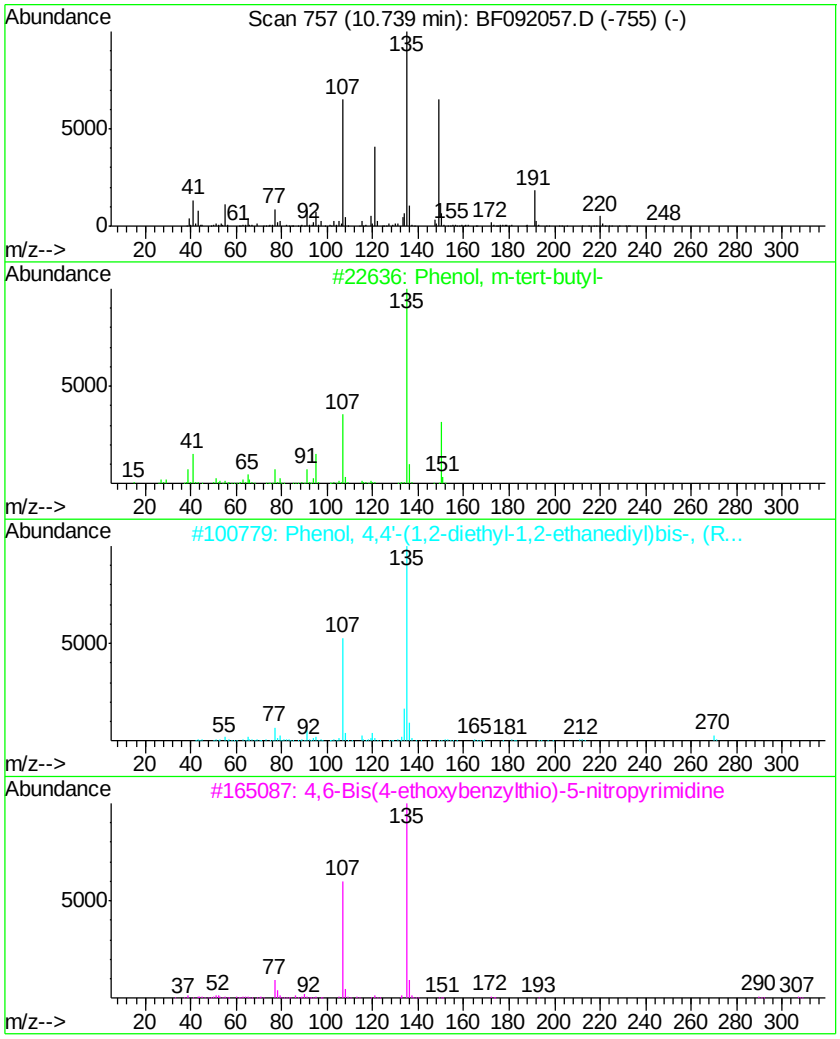
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

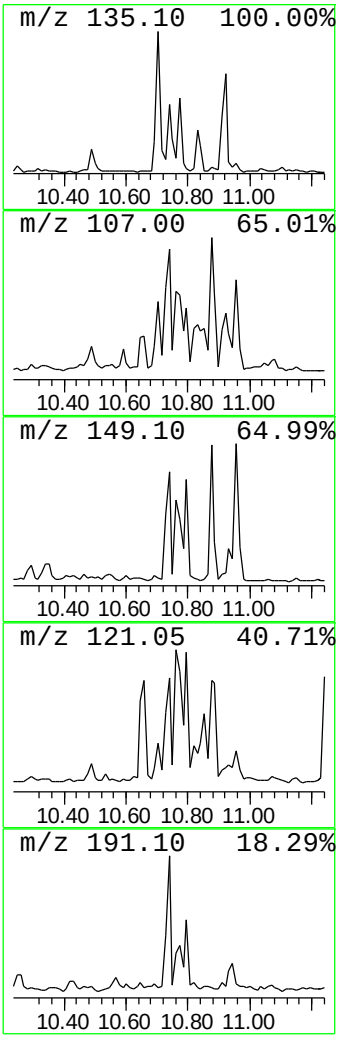
**********

Peak Number 14 Phenol, m-tert-butyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.74 | 14.69 ng | 953716 | Phenanthrene-d10 | 11.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, m-tert-butyl- | 150 | C10H14O | 000585-34-2 | 52 |
| 2 | Phenol, 4,4'-(1,2-diethyl-1,2-et... | 270 | C18H22O2 | 000084-16-2 | 50 |
| 3 | 4,6-Bis(4-ethoxybenzylthio)-5-ni... | 457 | C22H23N3O4S2 | 325957-76-4 | 50 |
| 4 | Benzene, 1-methoxy-4-(1-methylet... | 150 | C10H14O | 004132-48-3 | 43 |
| 5 | 1-Adamantanecarboxylic acid, 2-p... | 220 | C14H20O2 | 107144-95-6 | 38 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

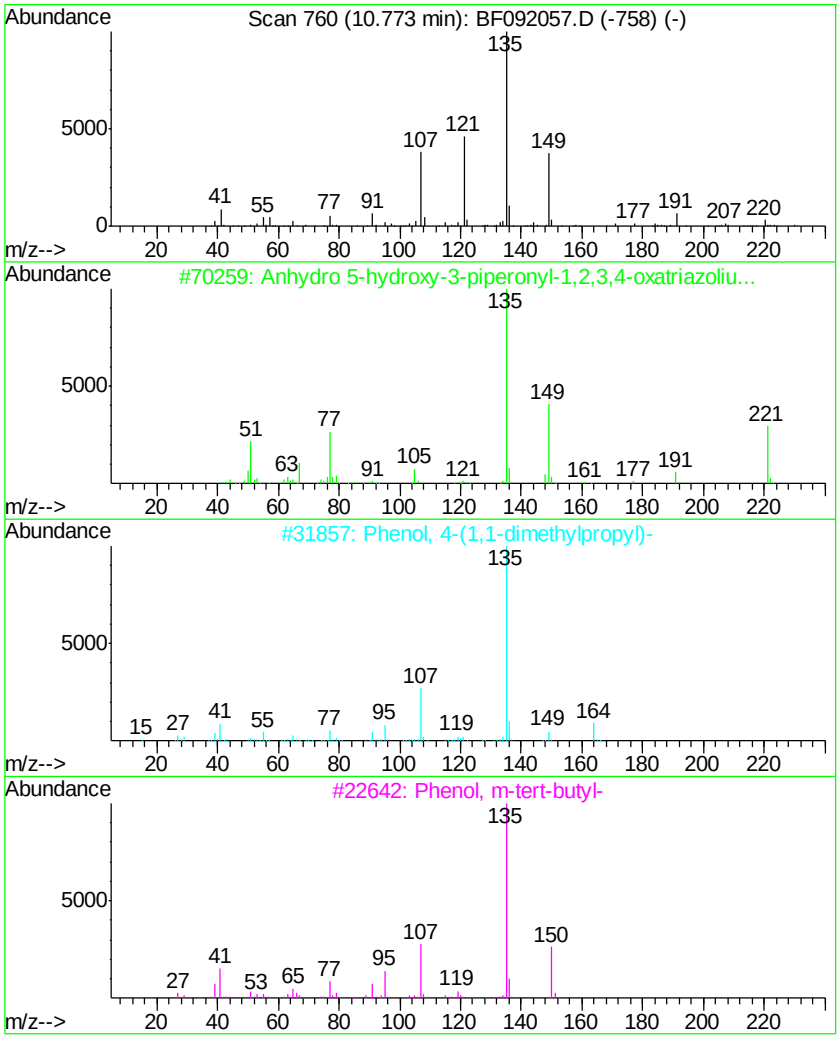
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

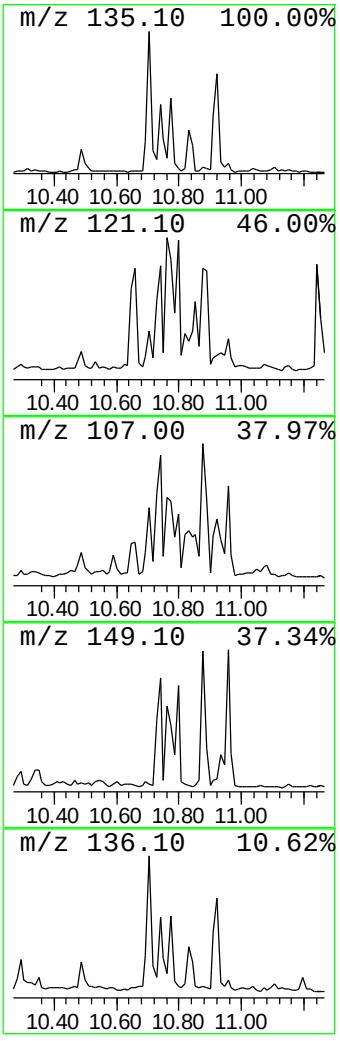
**********

Peak Number 15 Anhydro 5-hydroxy-3-piperon... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.77 | 17.10 ng | 1110630 | Phenanthrene-d10 | 11.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anhydro 5-hydroxy-3-piperonyl-1,... | 221 | C9H7N3O4 | 1000256-56-5 | 59 |
| 2 | Phenol, 4-(1,1-dimethylpropyl)- | 164 | C11H16O | 000080-46-6 | 59 |
| 3 | Phenol, m-tert-butyl- | 150 | C10H14O | 000585-34-2 | 58 |
| 4 | Benzoic acid, 4-(bromomethyl)- | 214 | C8H7BrO2 | 006232-88-8 | 53 |
| 5 | Hexestrol | 270 | C18H22O2 | 005635-50-7 | 53 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

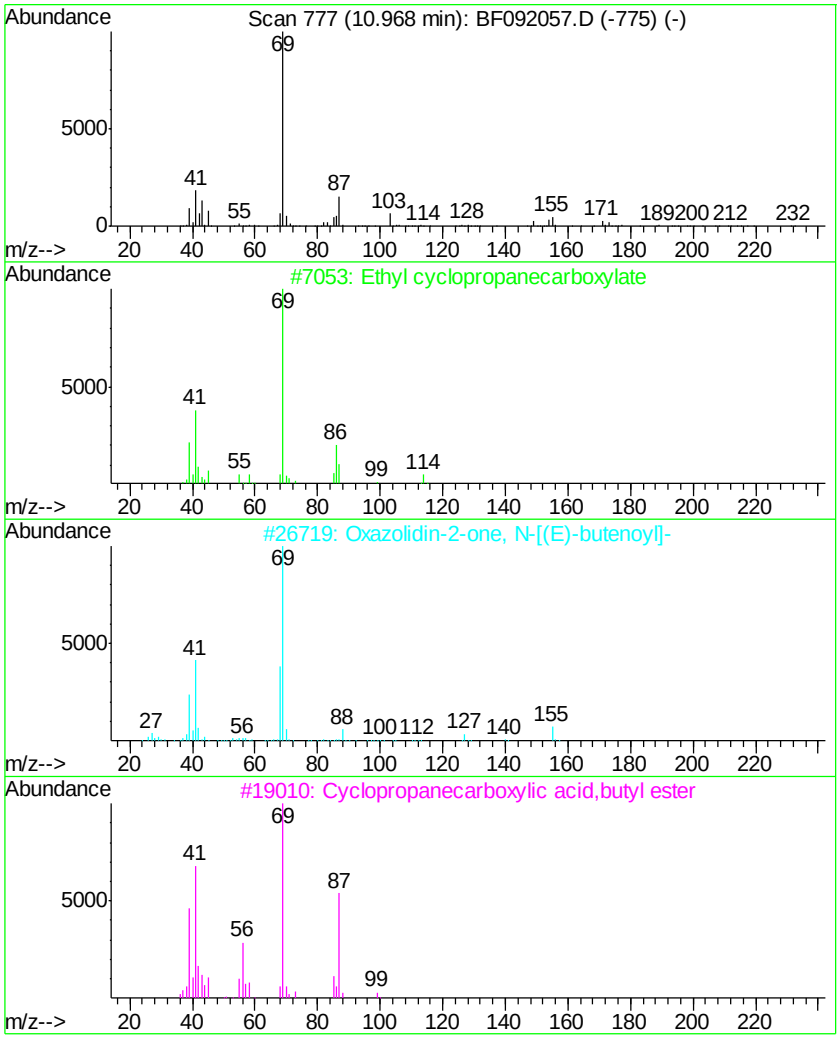
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

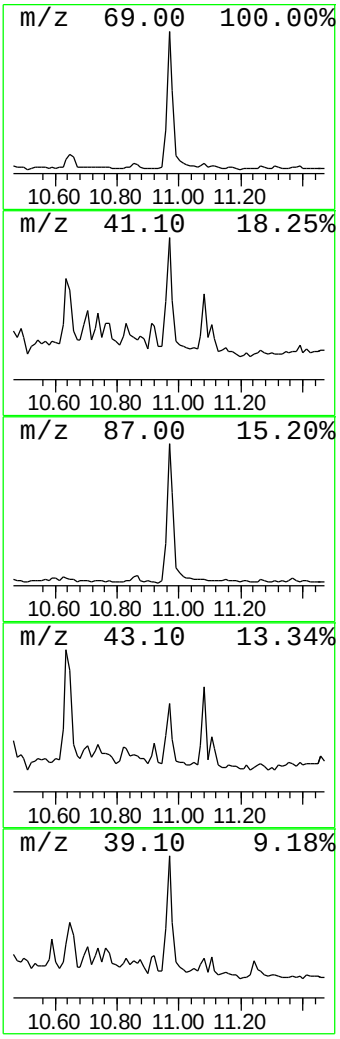
**********

Peak Number 18 Ethyl cyclopropanecarboxylate Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.97 | 22.20 ng | 1441860 | Phenanthrene-d10 | 11.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethyl cyclopropanecarboxylate | 114 | C6H10O2 | 004606-07-9 | 50 |
| 2 | Oxazolidin-2-one, N-[(E)-butenoyl]- | 155 | C7H9NO3 | 1000156-45-5 | 42 |
| 3 | Cyclopropanecarboxylic acid,butyl... | 142 | C8H14O2 | 054947-39-6 | 9 |
| 4 | Cyclopropanecarboxylic acid,isob... | 142 | C8H14O2 | 064969-79-5 | 9 |
| 5 | 3-Butyn-2-ol, 2-methyl- | 84 | C5H8O | 000115-19-5 | 7 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

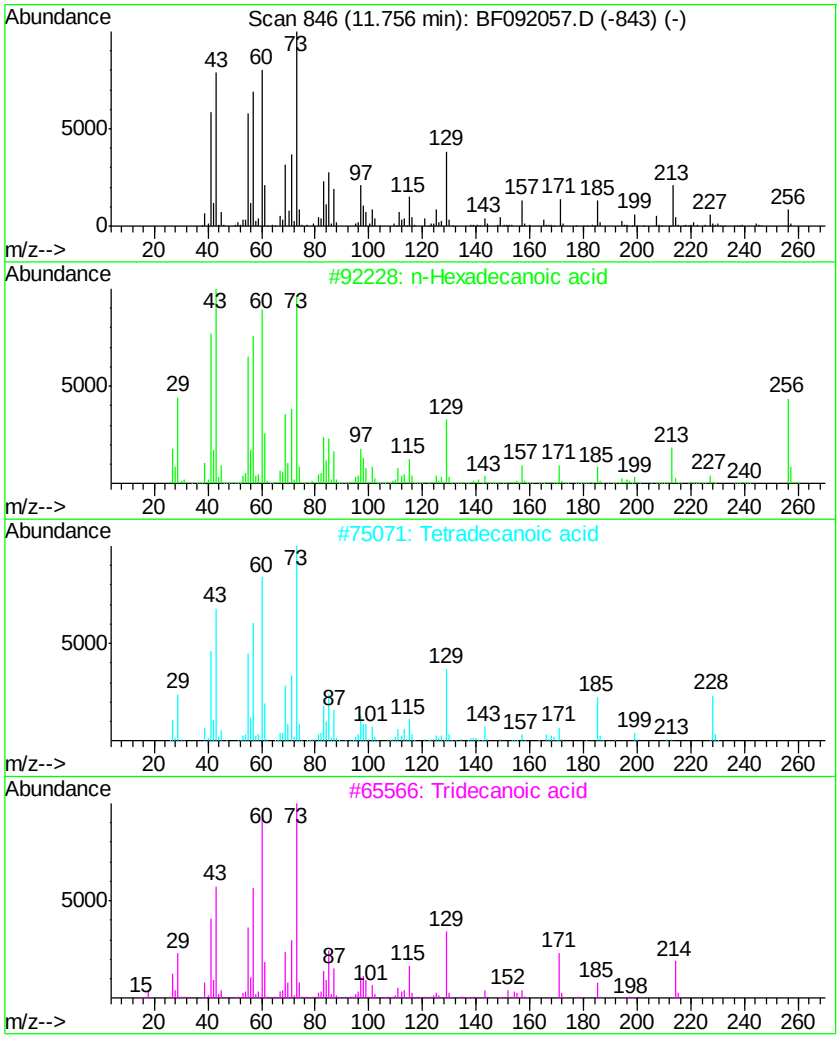
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

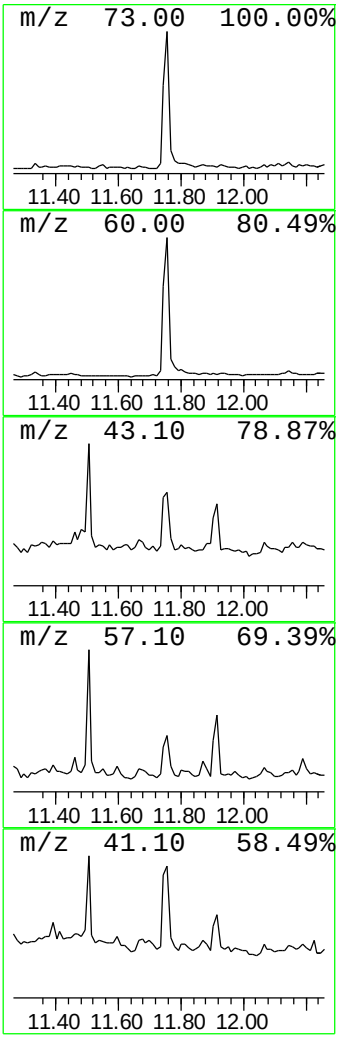
**********

Peak Number 19 n-Hexadecanoic acid Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.76 | 10.86 ng | 705570 | Phenanthrene-d10 | 11.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 96 |
| 2 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 91 |
| 3 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 83 |
| 4 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 64 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 64 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

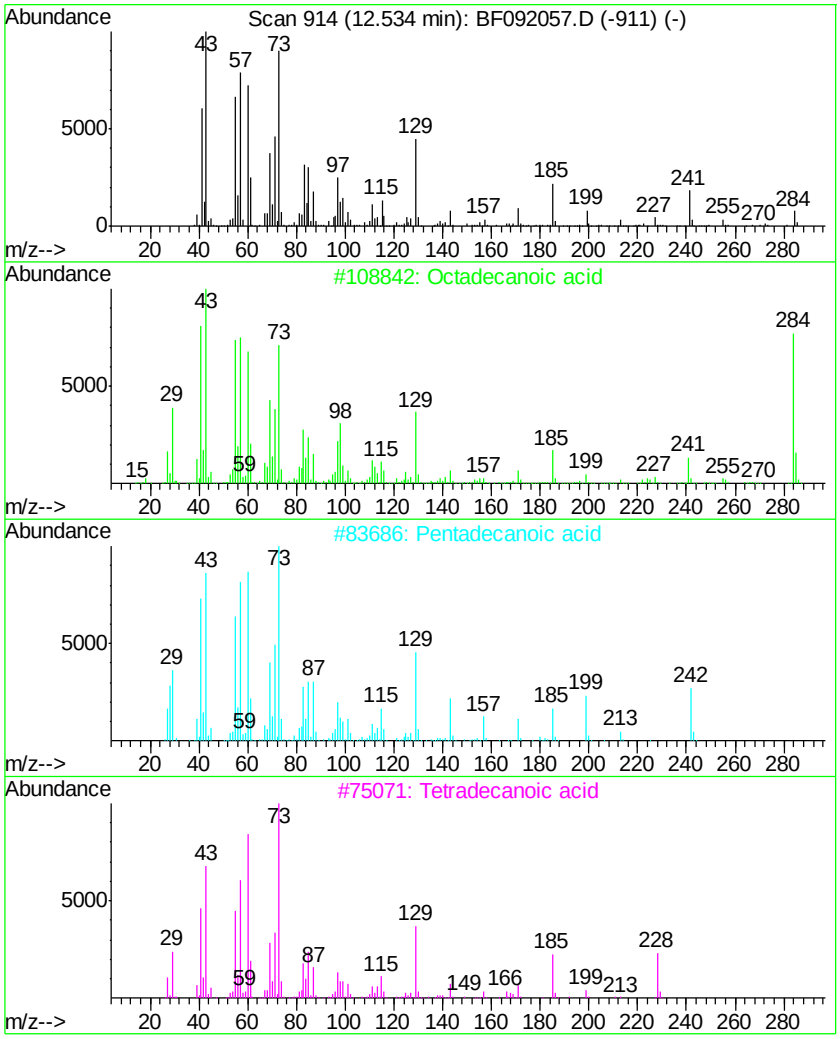
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

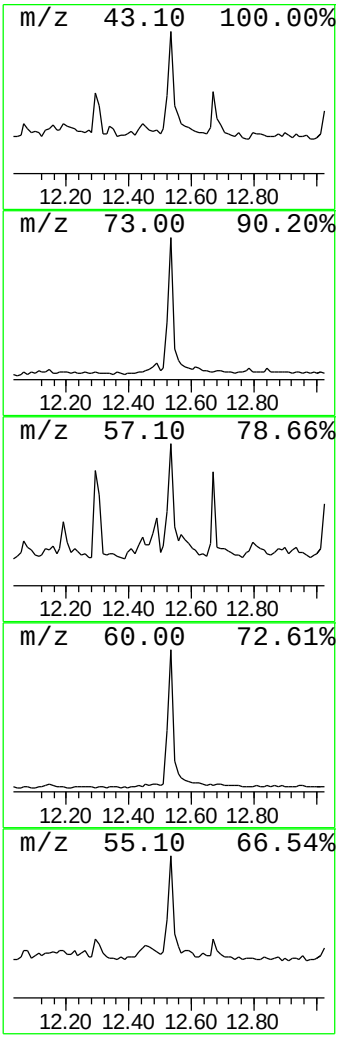
**********

Peak Number 20 Octadecanoic acid Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.53 | 17.25 ng | 978857 | Chrysene-d12 | 13.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 94 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 90 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 64 |
| 4 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 49 |
| 5 | Ethanone, 1-(4,5-dihydro-2-thiaz... | 129 | C5H7NOS | 029926-41-8 | 25 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF123016\
Data File : BF092057.D
Acq On : 30 Dec 2016 20:40
Operator : UM/SJ
Sample : H6318-10
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MW-08

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF122116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.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 | 15.6 | ng | 938884 | 1 | 6.68 | 1200980 | 20.0 |
| unknown6.20 | 6.20 | 12.7 | ng | 765085 | 1 | 6.68 | 1200980 | 20.0 |
| unknown6.45 | 6.45 | 65.8 | ng | 3952930 | 1 | 6.68 | 1200980 | 20.0 |
| Benzene, 1,3-diet... | 6.93 | 18.6 | ng | 1118680 | 1 | 6.68 | 1200980 | 20.0 |
| unknown7.08 | 7.08 | 13.5 | ng | 810138 | 1 | 6.68 | 1200980 | 20.0 |
| Benzene, 2-etheny... | 7.71 | 13.9 | ng | 3232020 | 2 | 7.97 | 4648920 | 20.0 |
| Naphthalene, 1,6-... | 9.38 | 15.5 | ng | 1603930 | 3 | 9.72 | 2068750 | 20.0 |
| 1H-Benzotriazole,... | 9.92 | 10.2 | ng | 1059000 | 3 | 9.72 | 2068750 | 20.0 |
| unknown10.16 | 10.16 | 12.6 | ng | 1299590 | 3 | 9.72 | 2068750 | 20.0 |
| 2(3H)-Benzothiazo... | 10.65 | 42.5 | ng | 2761360 | 4 | 11.20 | 1298870 | 20.0 |
| Phenol, 4-(1,1,3,... | 10.70 | 12.9 | ng | 837037 | 4 | 11.20 | 1298870 | 20.0 |
| Phenol, m-tert-bu... | 10.74 | 14.7 | ng | 953716 | 4 | 11.20 | 1298870 | 20.0 |
| Anhydro 5-hydroxy... | 10.77 | 17.1 | ng | 1110630 | 4 | 11.20 | 1298870 | 20.0 |
| Ethyl cyclopropan... | 10.97 | 22.2 | ng | 1441860 | 4 | 11.20 | 1298870 | 20.0 |
| n-Hexadecanoic acid | 11.76 | 10.9 | ng | 705570 | 4 | 11.20 | 1298870 | 20.0 |
| Octadecanoic acid | 12.53 | 17.3 | ng | 978857 | 5 | 13.83 | 1134630 | 20.0 |