LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

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-BF123115.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 | 3.058 | 83 | 85 | 92 | rVB | 118322 | 231335 | 2.40% | 0.168% |
| 2 | 3.458 | 113 | 120 | 124 | rBV | 139215 | 353494 | 3.67% | 0.257% |
| 3 | 3.618 | 129 | 134 | 138 | rVV | 260831 | 493174 | 5.11% | 0.359% |
| 4 | 3.836 | 149 | 153 | 157 | rVB2 | 66982 | 178293 | 1.85% | 0.130% |
| 5 | 4.144 | 174 | 180 | 182 | rBV | 180045 | 318983 | 3.31% | 0.232% |
| 6 | 4.293 | 189 | 193 | 194 | rBV | 117945 | 178475 | 1.85% | 0.130% |
| 7 | 4.338 | 194 | 197 | 200 | rVV2 | 76165 | 208884 | 2.17% | 0.152% |
| 8 | 4.441 | 200 | 206 | 208 | rVV | 194199 | 295723 | 3.07% | 0.215% |
| 9 | 4.487 | 208 | 210 | 214 | rVB | 245343 | 337131 | 3.50% | 0.245% |
| 10 | 4.590 | 214 | 219 | 222 | rBV | 119102 | 177528 | 1.84% | 0.129% |
| 11 | 4.910 | 245 | 247 | 250 | rVB | 156363 | 198366 | 2.06% | 0.144% |
| 12 | 4.967 | 250 | 252 | 253 | rBV | 102098 | 169354 | 1.76% | 0.123% |
| 13 | 5.001 | 253 | 255 | 258 | rVB2 | 128627 | 242693 | 2.52% | 0.176% |
| 14 | 5.070 | 259 | 261 | 264 | rBV | 1540751 | 1793855 | 18.60% | 1.304% |
| 15 | 5.207 | 270 | 273 | 275 | rVB2 | 114760 | 176679 | 1.83% | 0.128% |
| 16 | 5.276 | 277 | 279 | 281 | rBV | 299117 | 316171 | 3.28% | 0.230% |
| 17 | 5.344 | 283 | 285 | 289 | rVB2 | 532383 | 608982 | 6.31% | 0.443% |
| 18 | 5.493 | 292 | 298 | 301 | rBV | 4560075 | 4885672 | 50.66% | 3.552% |
| 19 | 5.561 | 301 | 304 | 309 | rBV3 | 220354 | 445744 | 4.62% | 0.324% |
| 20 | 5.653 | 309 | 312 | 314 | rBV2 | 353501 | 541513 | 5.62% | 0.394% |
| 21 | 5.721 | 316 | 318 | 320 | rBV | 641187 | 640627 | 6.64% | 0.466% |
| 22 | 5.756 | 320 | 321 | 323 | rVB | 181671 | 150167 | 1.56% | 0.109% |
| 23 | 5.801 | 323 | 325 | 327 | rBV | 157493 | 149662 | 1.55% | 0.109% |
| 24 | 5.893 | 330 | 333 | 335 | rBV2 | 437385 | 785954 | 8.15% | 0.571% |
| 25 | 5.939 | 335 | 337 | 340 | rVB | 350425 | 432332 | 4.48% | 0.314% |
| 26 | 6.042 | 344 | 346 | 348 | rVB3 | 407439 | 621901 | 6.45% | 0.452% |
| 27 | 6.087 | 348 | 350 | 352 | rBV | 194138 | 304281 | 3.16% | 0.221% |
| 28 | 6.133 | 352 | 354 | 357 | rVB2 | 619828 | 718355 | 7.45% | 0.522% |
| 29 | 6.190 | 357 | 359 | 360 | rBV | 289688 | 235249 | 2.44% | 0.171% |
| 30 | 6.327 | 368 | 371 | 372 | rBV | 265407 | 521352 | 5.41% | 0.379% |
| 31 | 6.384 | 374 | 376 | 377 | rVB | 360876 | 287141 | 2.98% | 0.209% |
| 32 | 6.419 | 377 | 379 | 380 | rBV2 | 817863 | 807104 | 8.37% | 0.587% |
| 33 | 6.487 | 384 | 385 | 386 | rBV | 250904 | 220345 | 2.28% | 0.160% |
| 34 | 6.522 | 386 | 388 | 390 | rVB | 2403198 | 2757201 | 28.59% | 2.005% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

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-BF123115.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 6.567 | 390 | 392 | 397 | rVB2 | 533983 | 916815 | 9.51% | 0.667% |
| 36 | 6.659 | 397 | 400 | 402 | rVB | 6677012 | 7083588 | 73.45% | 5.150% |
| 37 | 6.716 | 402 | 405 | 409 | rVB | 1022609 | 1248000 | 12.94% | 0.907% |
| 38 | 6.842 | 412 | 416 | 418 | rBV4 | 243933 | 582060 | 6.04% | 0.423% |
| 39 | 6.887 | 418 | 420 | 424 | rVB2 | 2533038 | 2727724 | 28.29% | 1.983% |
| 40 | 6.944 | 424 | 425 | 428 | rBV | 662208 | 719256 | 7.46% | 0.523% |
| 41 | 7.047 | 432 | 434 | 436 | rBV | 7104806 | 6882999 | 71.37% | 5.004% |
| 42 | 7.082 | 436 | 437 | 439 | rVB | 336247 | 309858 | 3.21% | 0.225% |
| 43 | 7.139 | 439 | 442 | 443 | rBV3 | 654546 | 902256 | 9.36% | 0.656% |
| 44 | 7.162 | 443 | 444 | 447 | rVB3 | 380731 | 564485 | 5.85% | 0.410% |
| 45 | 7.230 | 447 | 450 | 452 | rVB4 | 389367 | 803186 | 8.33% | 0.584% |
| 46 | 7.287 | 452 | 455 | 456 | rBV | 564741 | 545265 | 5.65% | 0.396% |
| 47 | 7.333 | 456 | 459 | 460 | rVB2 | 235997 | 356070 | 3.69% | 0.259% |
| 48 | 7.379 | 460 | 463 | 465 | rBV2 | 185810 | 438587 | 4.55% | 0.319% |
| 49 | 7.459 | 465 | 470 | 472 | rBV | 6009694 | 8570620 | 88.87% | 6.231% |
| 50 | 7.527 | 472 | 476 | 479 | rVB5 | 964744 | 2510976 | 26.04% | 1.826% |
| 51 | 7.573 | 479 | 480 | 482 | rBV2 | 354255 | 452829 | 4.70% | 0.329% |
| 52 | 7.607 | 482 | 483 | 485 | rVB2 | 411641 | 368058 | 3.82% | 0.268% |
| 53 | 7.665 | 486 | 488 | 489 | rBV | 576443 | 632140 | 6.56% | 0.460% |
| 54 | 7.699 | 489 | 491 | 494 | rVB3 | 747566 | 1237113 | 12.83% | 0.899% |
| 55 | 7.767 | 495 | 497 | 500 | rVB3 | 759403 | 806065 | 8.36% | 0.586% |
| 56 | 7.813 | 500 | 501 | 502 | rBV | 208805 | 253335 | 2.63% | 0.184% |
| 57 | 7.847 | 502 | 504 | 507 | rVB4 | 563157 | 1010882 | 10.48% | 0.735% |
| 58 | 7.916 | 507 | 510 | 514 | rBV2 | 1863431 | 2784154 | 28.87% | 2.024% |
| 59 | 8.007 | 514 | 518 | 519 | rBV4 | 397715 | 1237185 | 12.83% | 0.899% |
| 60 | 8.087 | 524 | 525 | 526 | rBV | 385270 | 361515 | 3.75% | 0.263% |
| 61 | 8.122 | 526 | 528 | 530 | rBV | 733475 | 725068 | 7.52% | 0.527% |
| 62 | 8.179 | 530 | 533 | 536 | rBV | 3509723 | 3794429 | 39.35% | 2.759% |
| 63 | 8.225 | 536 | 537 | 540 | rVB2 | 522348 | 904716 | 9.38% | 0.658% |
| 64 | 8.270 | 540 | 541 | 542 | rBV | 274490 | 279444 | 2.90% | 0.203% |
| 65 | 8.305 | 542 | 544 | 546 | rBV2 | 354068 | 546026 | 5.66% | 0.397% |
| 66 | 8.350 | 546 | 548 | 550 | rBV3 | 561980 | 751101 | 7.79% | 0.546% |
| 67 | 8.430 | 552 | 555 | 557 | rBV3 | 933968 | 1503586 | 15.59% | 1.093% |
| 68 | 8.476 | 557 | 559 | 560 | rVB | 411685 | 511871 | 5.31% | 0.372% |
| 69 | 8.556 | 560 | 566 | 568 | rBV6 | 712538 | 2380975 | 24.69% | 1.731% |
| 70 | 8.590 | 568 | 569 | 571 | rBV2 | 201571 | 309382 | 3.21% | 0.225% |
| 71 | 8.659 | 573 | 575 | 579 | rVB5 | 834203 | 1384796 | 14.36% | 1.007% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

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-BF123115.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 8.773 | 581 | 585 | 587 | rVB3 | 660077 | 1657464 | 17.19% | 1.205% |
| 73 | 8.876 | 587 | 594 | 597 | rBV3 | 2155084 | 5191773 | 53.84% | 3.775% |
| 74 | 8.956 | 599 | 601 | 603 | rBV3 | 748700 | 1308372 | 13.57% | 0.951% |
| 75 | 8.990 | 603 | 604 | 606 | rVB | 1061770 | 857671 | 8.89% | 0.624% |
| 76 | 9.036 | 606 | 608 | 610 | rBV3 | 603577 | 1084132 | 11.24% | 0.788% |
| 77 | 9.070 | 610 | 611 | 613 | rBV2 | 841443 | 1004423 | 10.42% | 0.730% |
| 78 | 9.196 | 618 | 622 | 625 | rVB5 | 949314 | 2576500 | 26.72% | 1.873% |
| 79 | 9.265 | 625 | 628 | 629 | rBV | 7745144 | 9643575 | 100.00% | 7.011% |
| 80 | 9.288 | 629 | 630 | 632 | rBV2 | 1262113 | 1407878 | 14.60% | 1.024% |
| 81 | 9.356 | 632 | 636 | 637 | rVB3 | 626242 | 1272933 | 13.20% | 0.925% |
| 82 | 9.390 | 637 | 639 | 641 | rBV3 | 417160 | 747844 | 7.75% | 0.544% |
| 83 | 9.448 | 642 | 644 | 646 | rVB2 | 1379738 | 1646919 | 17.08% | 1.197% |
| 84 | 9.482 | 646 | 647 | 651 | rBV4 | 329944 | 650491 | 6.75% | 0.473% |
| 85 | 9.596 | 654 | 657 | 660 | rBV2 | 1144359 | 1810994 | 18.78% | 1.317% |
| 86 | 9.653 | 660 | 662 | 666 | rBV2 | 1157755 | 1941155 | 20.13% | 1.411% |
| 87 | 9.939 | 684 | 687 | 689 | rVB | 2472370 | 2855502 | 29.61% | 2.076% |
| 88 | 10.030 | 693 | 695 | 697 | rBV2 | 426492 | 831778 | 8.63% | 0.605% |
| 89 | 10.065 | 697 | 698 | 699 | rVB | 518872 | 381413 | 3.96% | 0.277% |
| 90 | 10.270 | 712 | 716 | 718 | rBV4 | 687385 | 2040061 | 21.15% | 1.483% |
| 91 | 10.591 | 742 | 744 | 747 | rVB3 | 572905 | 990249 | 10.27% | 0.720% |
| 92 | 10.728 | 753 | 756 | 759 | rVB | 4397057 | 4717090 | 48.91% | 3.429% |
| 93 | 10.785 | 759 | 761 | 764 | rVB4 | 516707 | 874718 | 9.07% | 0.636% |
| 94 | 10.842 | 764 | 766 | 771 | rBV3 | 772238 | 1772858 | 18.38% | 1.289% |
| 95 | 11.425 | 815 | 817 | 818 | rBV | 2160612 | 1949378 | 20.21% | 1.417% |
| 96 | 11.974 | 863 | 865 | 867 | rBV3 | 443348 | 586594 | 6.08% | 0.426% |
| 97 | 13.014 | 953 | 956 | 958 | rBV | 5508975 | 5501794 | 57.05% | 4.000% |
| 98 | 13.288 | 978 | 980 | 983 | rVB | 437208 | 440295 | 4.57% | 0.320% |
| 99 | 14.065 | 1045 | 1048 | 1050 | rVB | 1182472 | 1565251 | 16.23% | 1.138% |
| 100 | 15.505 | 1171 | 1174 | 1184 | rVB | 1352650 | 2055526 | 21.31% | 1.494% |

Sum of corrected areas: 137544766

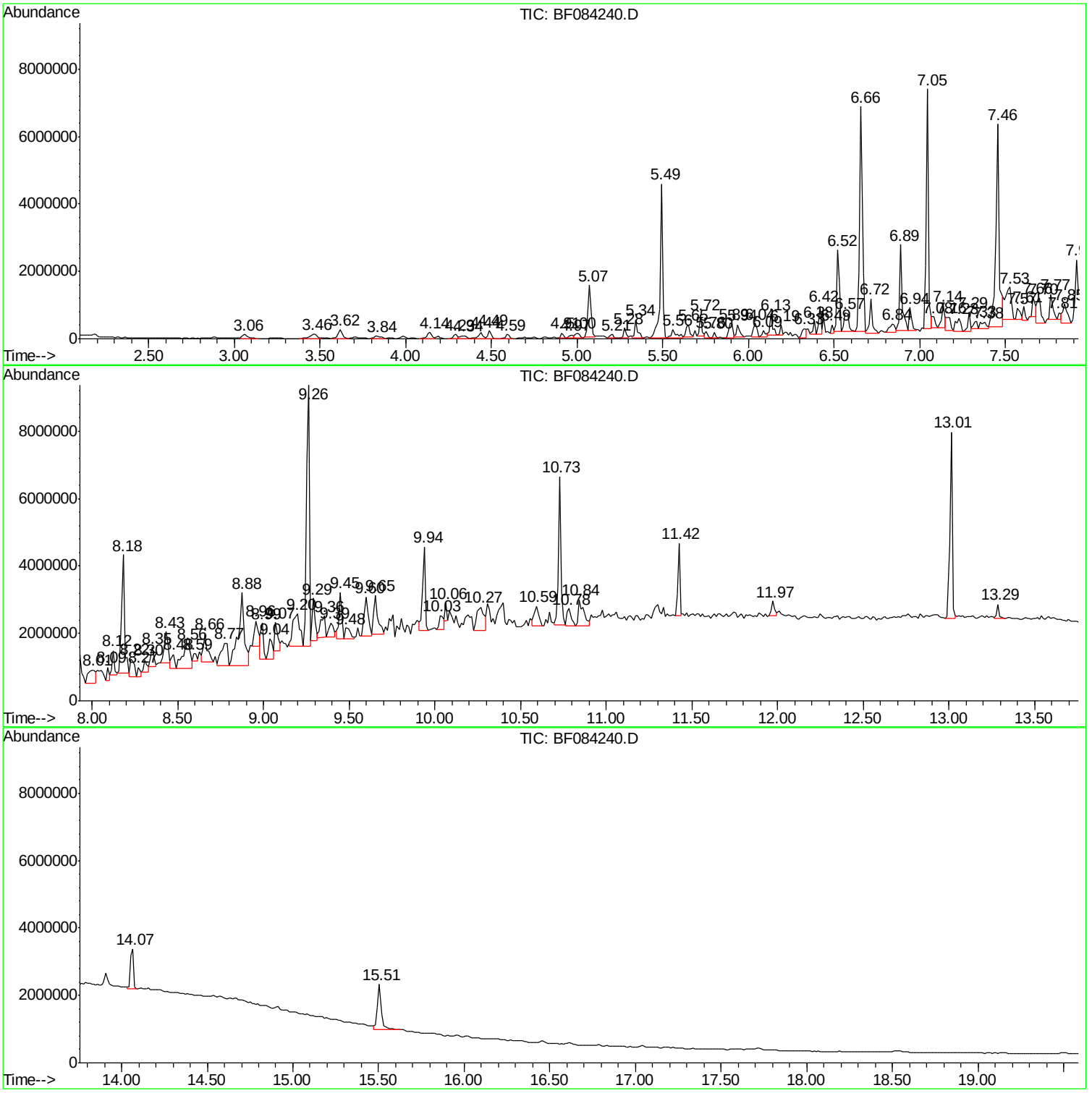
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.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\BF010416\
Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

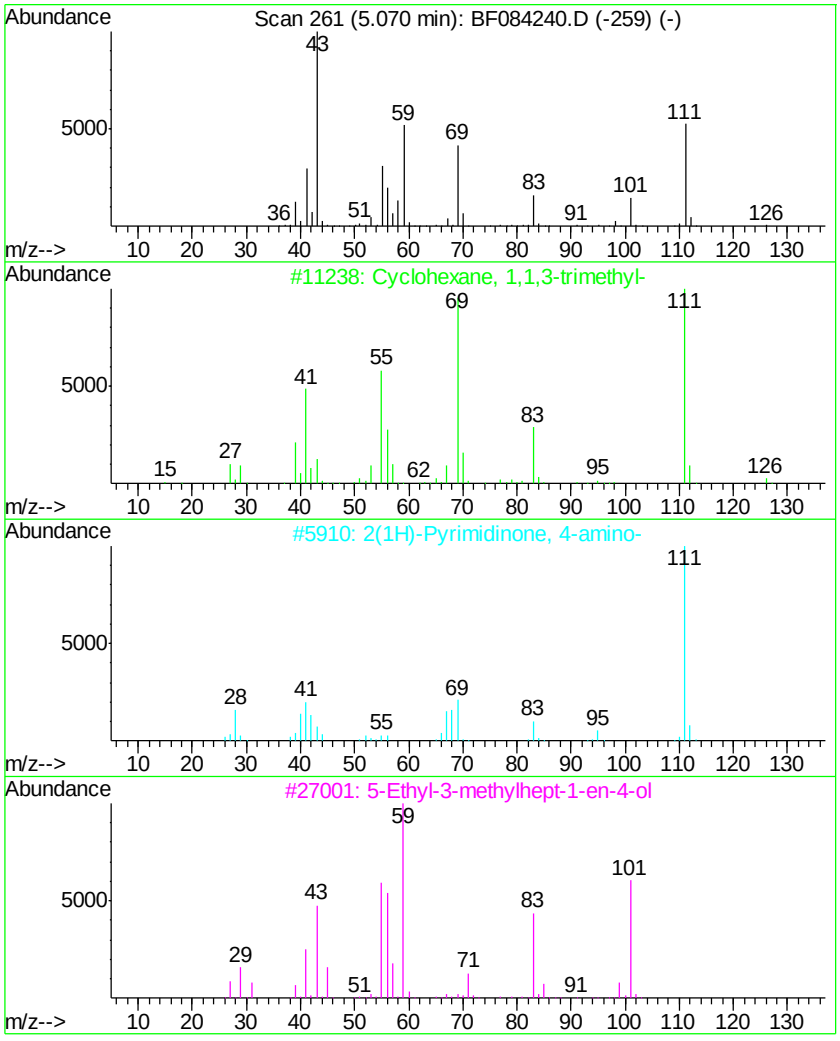
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

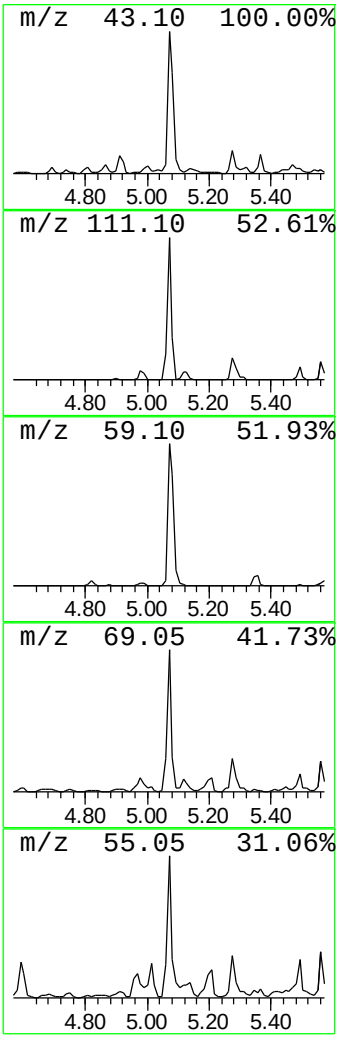
**********

Peak Number 1 unknown5.07 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.07 | 13.15 ng | 1793860 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 38 |
| 2 | 2(1H)-Pyrimidinone, 4-amino- | 111 | C4H5N3O | 000071-30-7 | 27 |
| 3 | 5-Ethyl-3-methylhept-1-en-4-ol | 156 | C10H20O | 286424-80-4 | 25 |
| 4 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-27-3 | 22 |
| 5 | 4(1H)-Pyridinone, 2,3-dihydro-1-... | 111 | C6H9NO | 035488-00-7 | 22 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

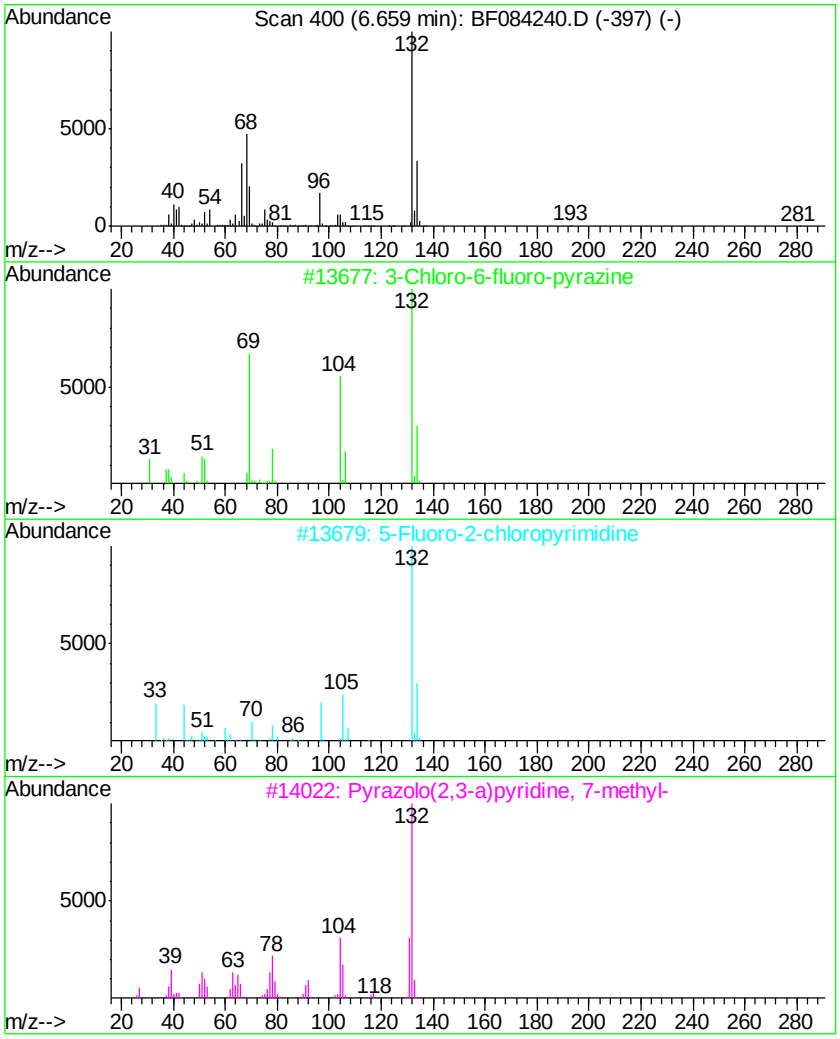
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

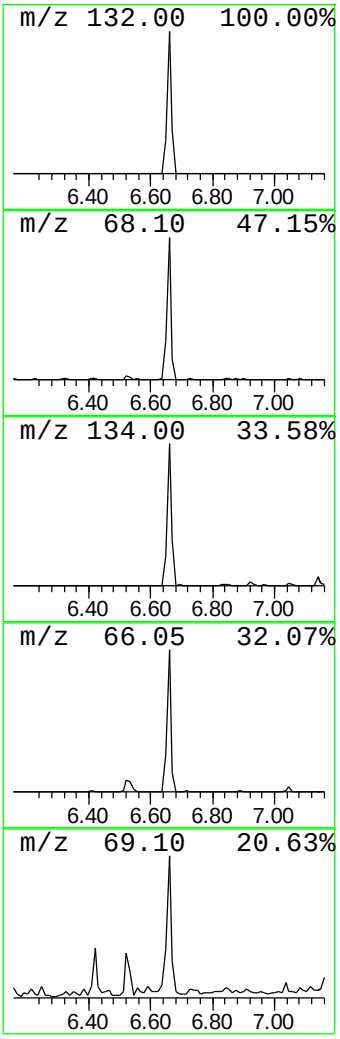
**********

Peak Number 2 unknown6.66 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.66 | 51.94 ng | 7083590 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 16 |
| 3 | Pyrazolo(2,3-a)pyridine, 7-methyl- | 132 | C8H8N2 | 034760-58-2 | 10 |
| 4 | (5-METHYL-2-PYRIDYL)ACETONITRILE | 132 | C8H8N2 | 1000241-93-9 | 10 |
| 5 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

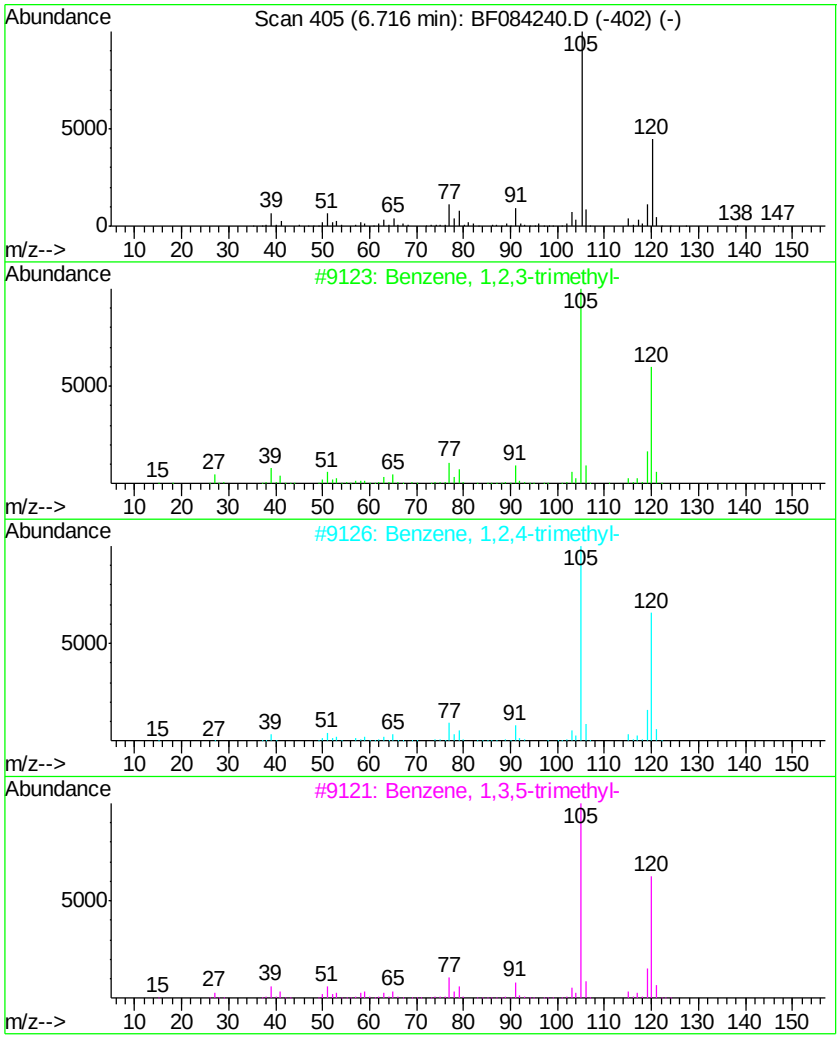
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

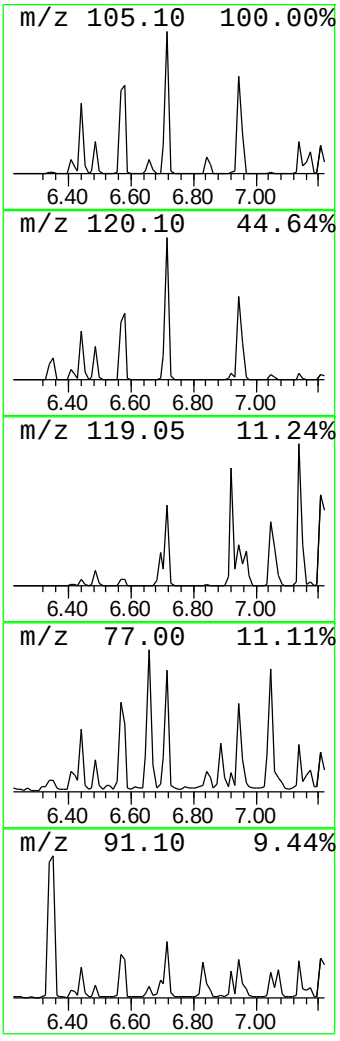
**********

Peak Number 3 Benzene, 1,2,3-trimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.72 | 9.15 ng | 1248000 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 97 |
| 2 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 95 |
| 3 | Benzene, 1,3,5-trimethyl- | 120 | C9H12 | 000108-67-8 | 91 |
| 4 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 90 |
| 5 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 90 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

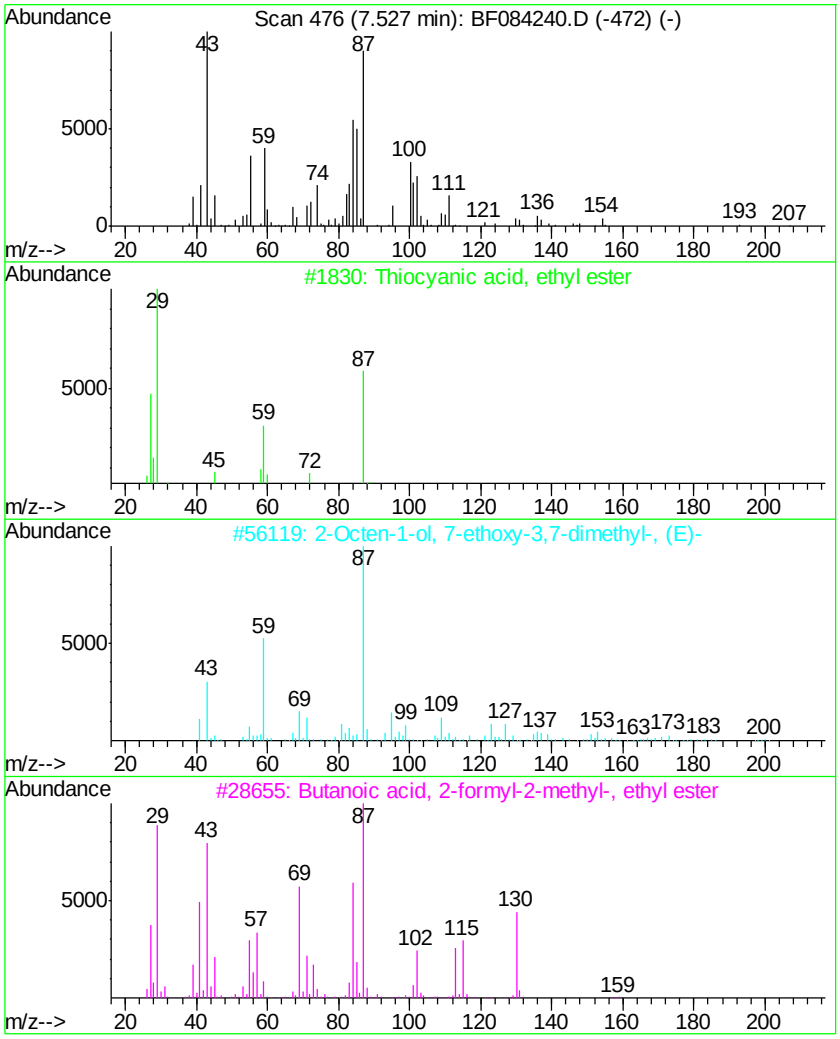
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

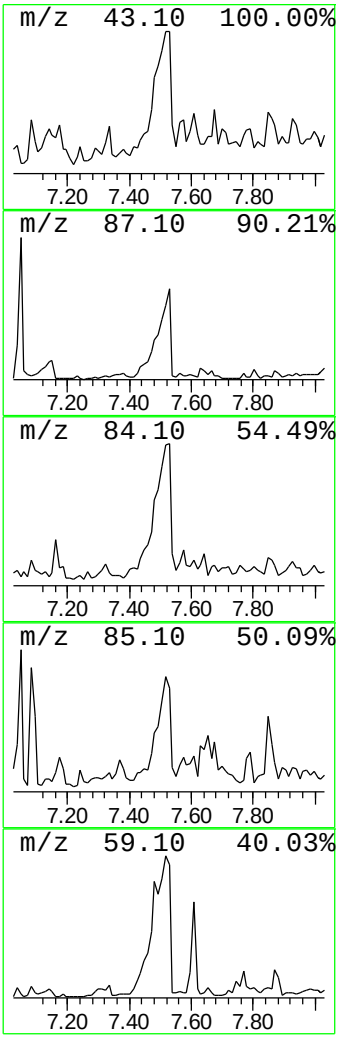
**********

Peak Number 5 unknown7.53 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.53 | 18.41 ng | 2510980 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Thiocyanic acid, ethyl ester | 87 | C3H5NS | 000542-90-5 | 30 |
| 2 | 2-Octen-1-ol, 7-ethoxy-3,7-dimet... | 200 | C12H24O2 | 1000132-19-5 | 25 |
| 3 | Butanoic acid, 2-formyl-2-methyl... | 158 | C8H14O3 | 1000197-63-2 | 23 |
| 4 | 1,3-Propanediol, 2,2-diethyl- | 132 | C7H16O2 | 000115-76-4 | 16 |
| 5 | Acetic acid, 1-methylcyclopentyl... | 142 | C8H14O2 | 026600-59-9 | 12 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

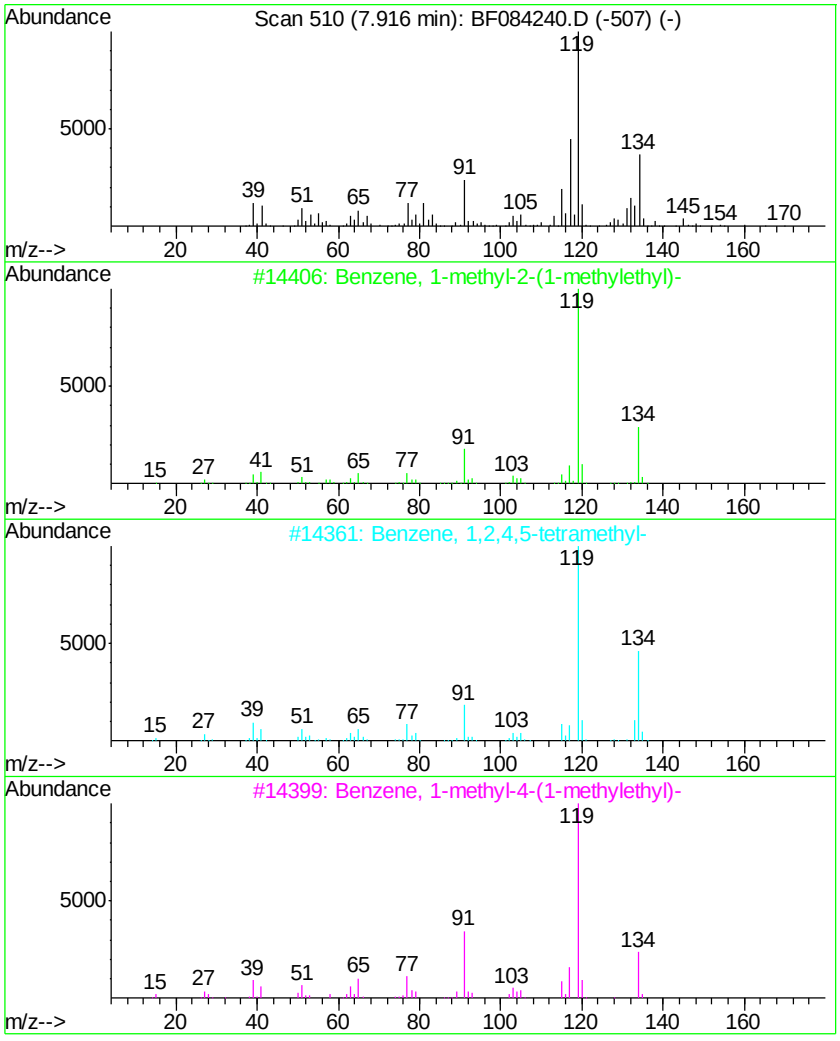
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

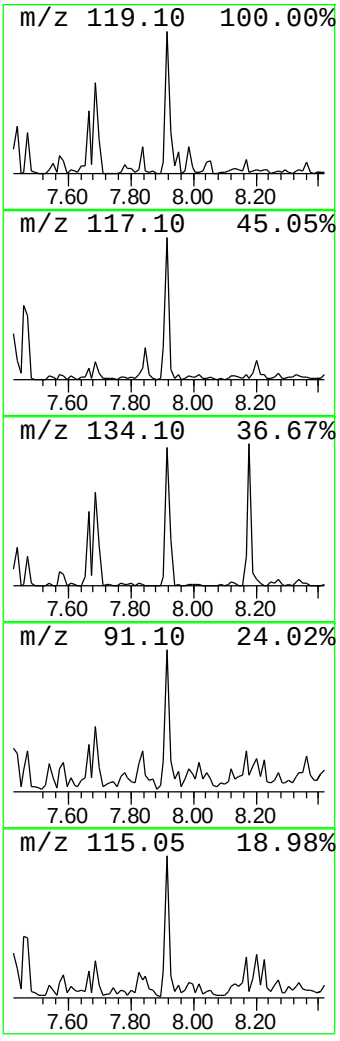
**********

Peak Number 6 Benzene, 1-methyl-2-(1-meth... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.92 | 14.68 ng | 2784150 | Naphthalene-d8 | 8.18 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-2-(1-methyleth... | 134 | C10H14 | 000527-84-4 | 64 |
| 2 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 64 |
| 3 | Benzene, 1-methyl-4-(1-methyleth... | 134 | C10H14 | 000099-87-6 | 64 |
| 4 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 64 |
| 5 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 60 |



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Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

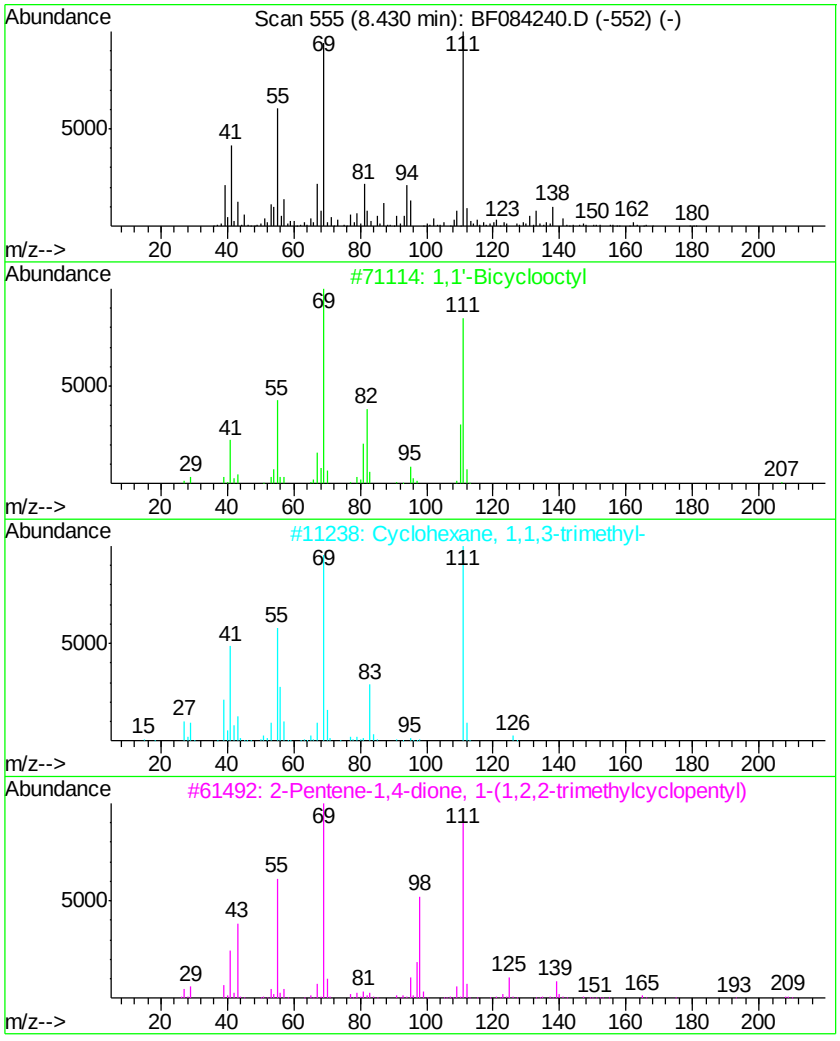
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

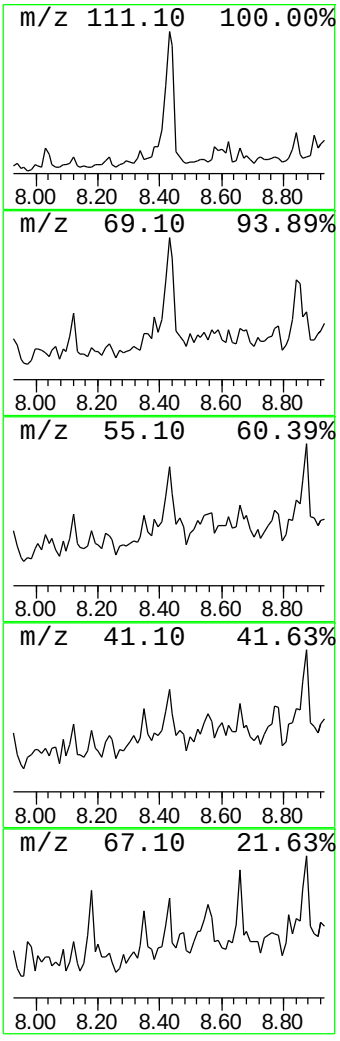
**********

Peak Number 7 1,1'-Bicyclooctyl Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.43 | 7.93 ng | 1503590 | Naphthalene-d8 | 8.18 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Bicyclooctyl | 222 | C16H30 | 006708-17-4 | 59 |
| 2 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 53 |
| 3 | 2-Pentene-1,4-dione, 1-(1,2,2-tr... | 208 | C13H20O2 | 1000196-77-9 | 53 |
| 4 | Cycloheptanecarboxylic acid, 1-m... | 170 | C10H18O2 | 007362-77-8 | 53 |
| 5 | 1,1,4-Trimethylcyclohexane | 126 | C9H18 | 007094-27-1 | 50 |



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Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

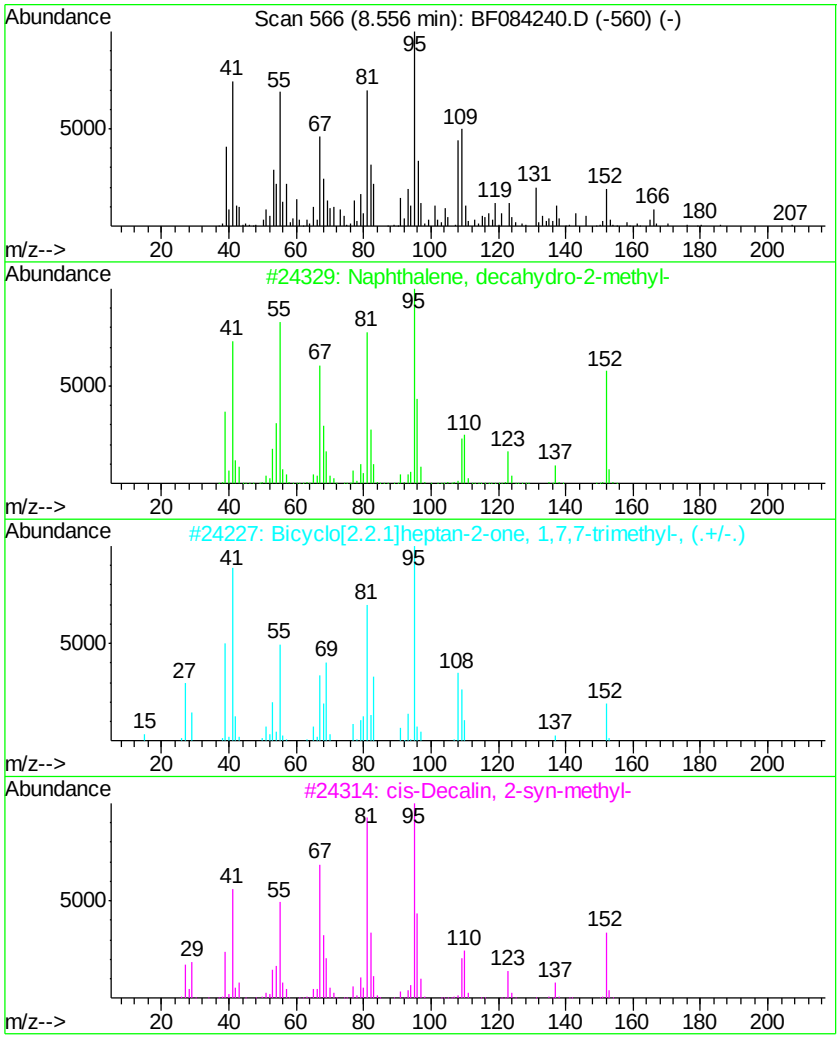
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

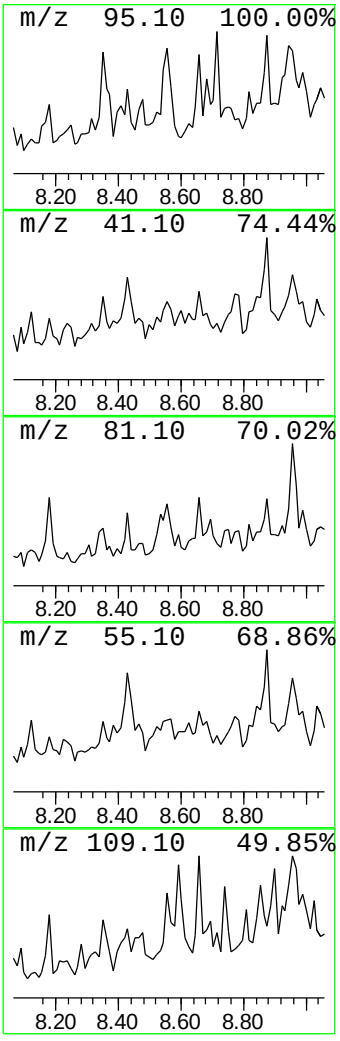
**********

Peak Number 8 Naphthalene, decahydro-2-me... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.56 | 12.55 ng | 2380980 | Naphthalene-d8 | 8.18 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, decahydro-2-methyl- | 152 | C11H20 | 002958-76-1 | 83 |
| 2 | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 021368-68-3 | 70 |
| 3 | cis-Decalin, 2-syn-methyl- | 152 | C11H20 | 1000155-85-6 | 64 |
| 4 | 2-Cyclohexen-1-one, 4-ethyl-3,4-... | 152 | C10H16O | 017622-46-7 | 52 |
| 5 | Bicyclo[4.1.0]heptane, 3,7,7-tri... | 138 | C10H18 | 018968-23-5 | 50 |



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Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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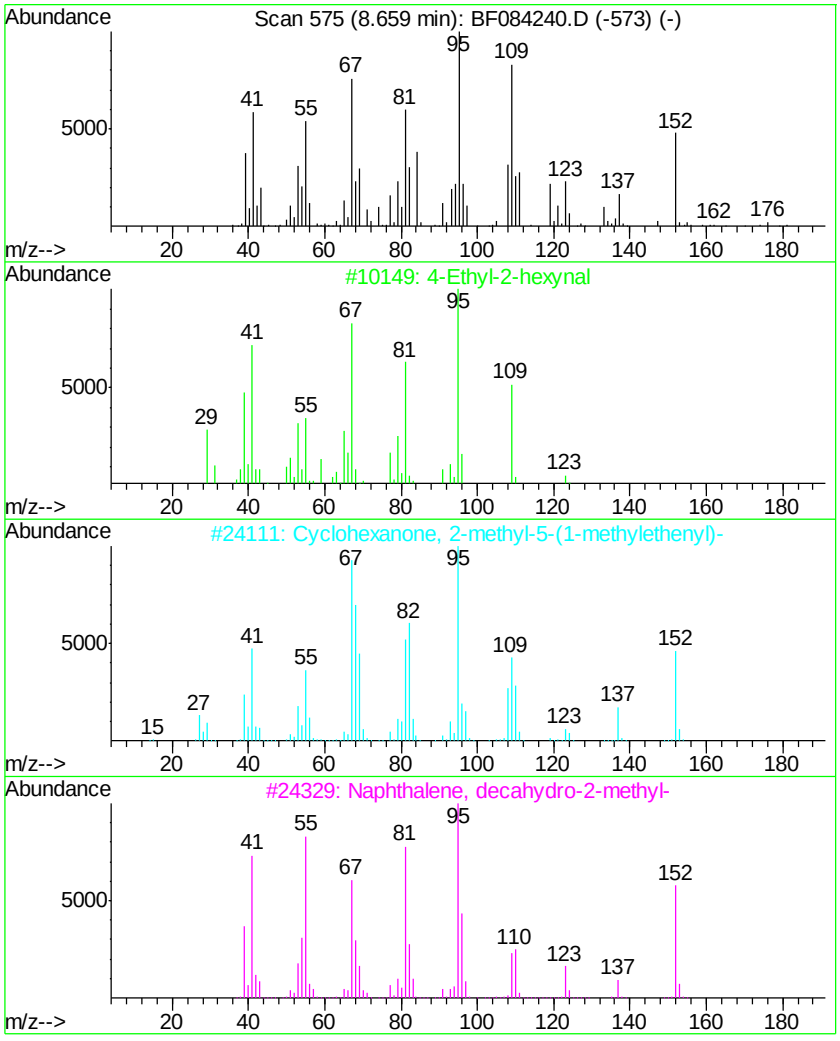
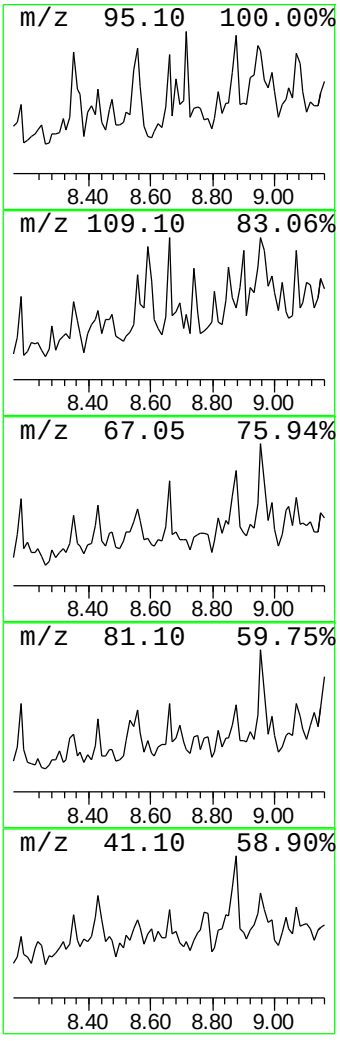
Peak Number 9 4-Ethyl-2-hexynal Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.66 | 7.30 ng | 1384800 | Naphthalene-d8 | 8.18 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Ethyl-2-hexynal | 124 | C8H12O | 071932-97-3 | 53 |
| 2 | Cyclohexanone, 2-methyl-5-(1-met... | 152 | C10H16O | 007764-50-3 | 53 |
| 3 | Naphthalene, decahydro-2-methyl- | 152 | C11H20 | 002958-76-1 | 50 |
| 4 | Cyclohexanone, 5-methyl-2-(1-met... | 152 | C10H16O | 029606-79-9 | 43 |
| 5 | 2,4-Hexadiene, 2,5-dimethyl- | 110 | C8H14 | 000764-13-6 | 42 |



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Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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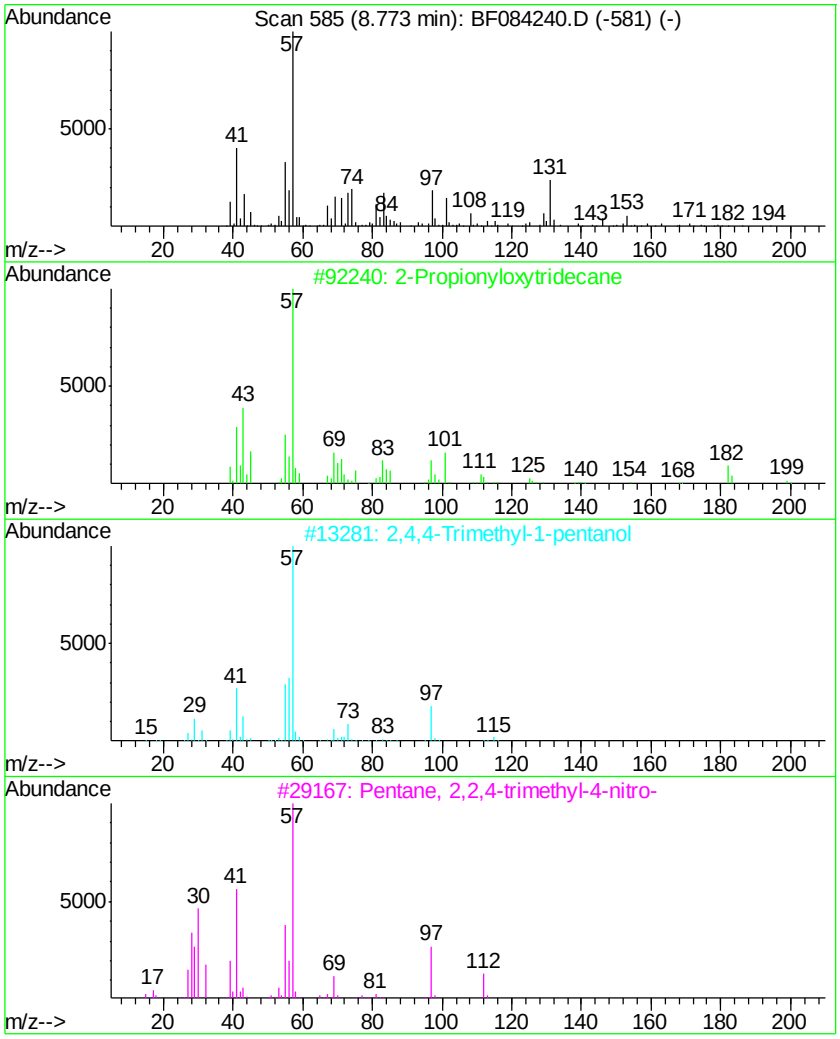
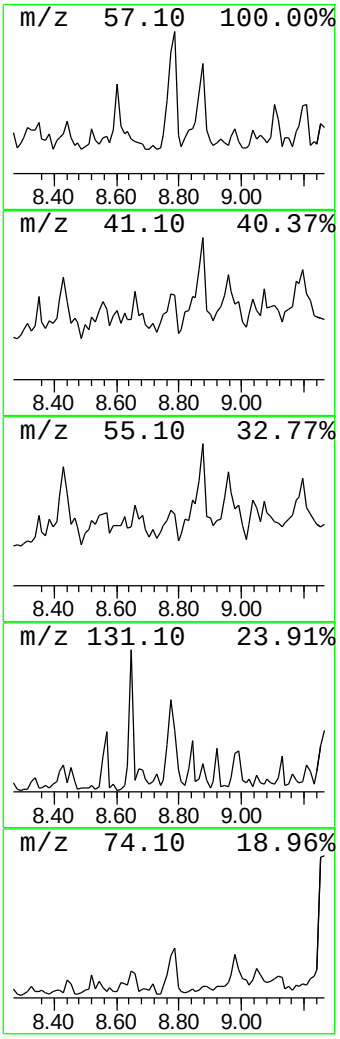
Peak Number 10 unknown8.77 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.77 | 8.74 ng | 1657460 | Naphthalene-d8 | 8.18 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Propionyloxytridecane | 256 | C16H32O2 | 1000245-62-4 | 25 |
| 2 | 2,4,4-Trimethyl-1-pentanol | 130 | C8H18O | 016325-63-6 | 25 |
| 3 | Pentane, 2,2,4-trimethyl-4-nitro- | 159 | C8H17NO2 | 005342-78-9 | 22 |
| 4 | 2-tert-Butyl-3,4,5,6-tetrahydrop... | 139 | C9H17N | 090949-17-0 | 14 |
| 5 | Propanoic acid, 1-methylpropyl e... | 130 | C7H14O2 | 000591-34-4 | 12 |



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Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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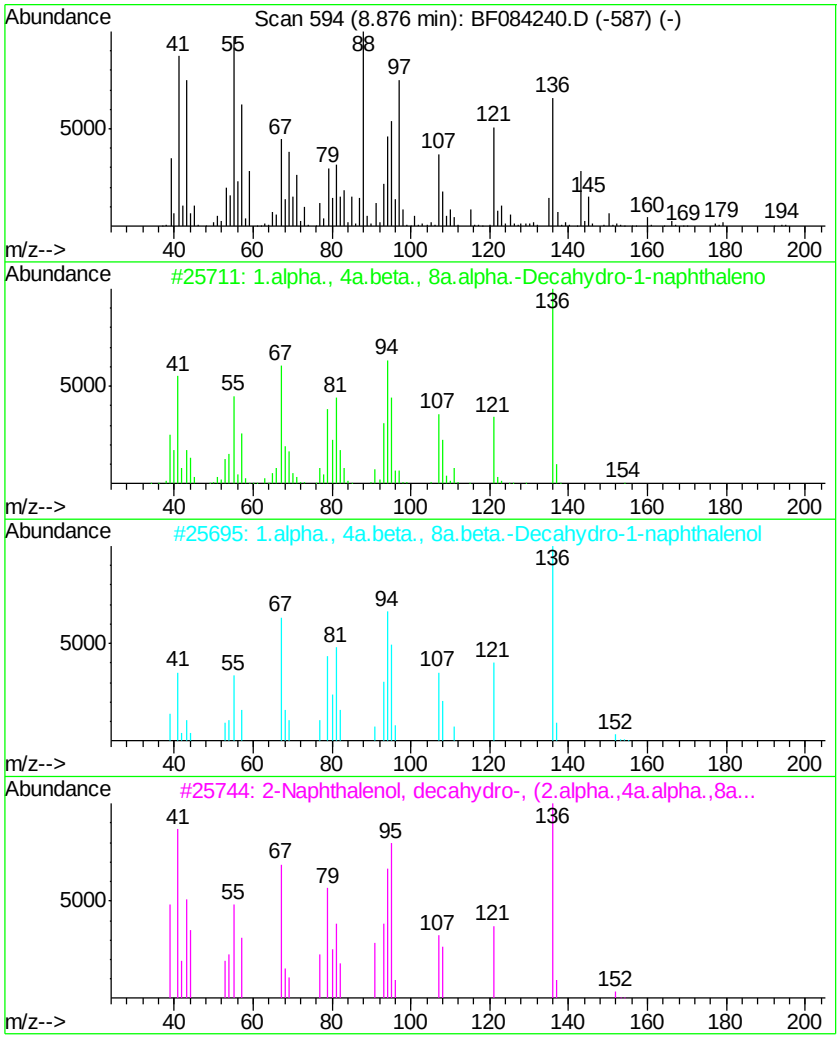
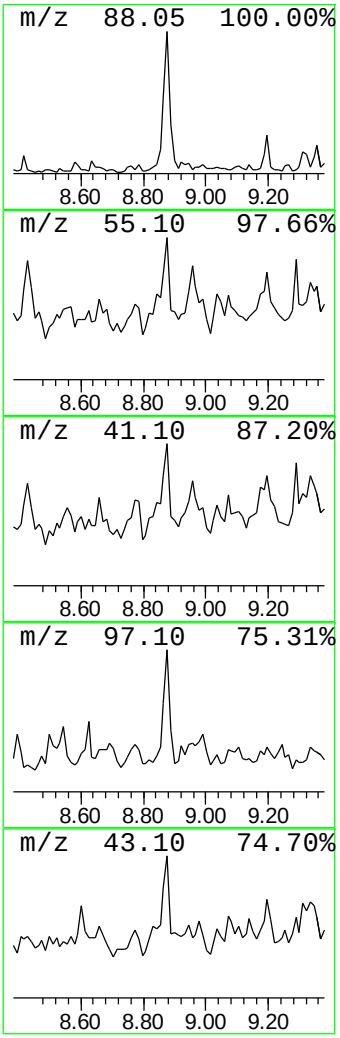
Peak Number 11 unknown8.88 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.88 | 27.37 ng | 5191770 | Naphthalene-d8 | 8.18 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1.alpha., 4a.beta., 8a.alpha.-De... | 154 | C10H18O | 036159-47-4 | 42 |
| 2 | 1.alpha., 4a.beta., 8a.beta.-Dec... | 154 | C10H18O | 002529-05-7 | 30 |
| 3 | 2-Naphthalenol, decahydro-, (2.a... | 154 | C10H18O | 002529-06-8 | 30 |
| 4 | 2.alpha., 4a.alpha., 8a.alpha.-D... | 154 | C10H18O | 001424-36-8 | 30 |
| 5 | 1.alpha., 4a.alpha., 8a.beta.-De... | 154 | C10H18O | 002529-03-5 | 30 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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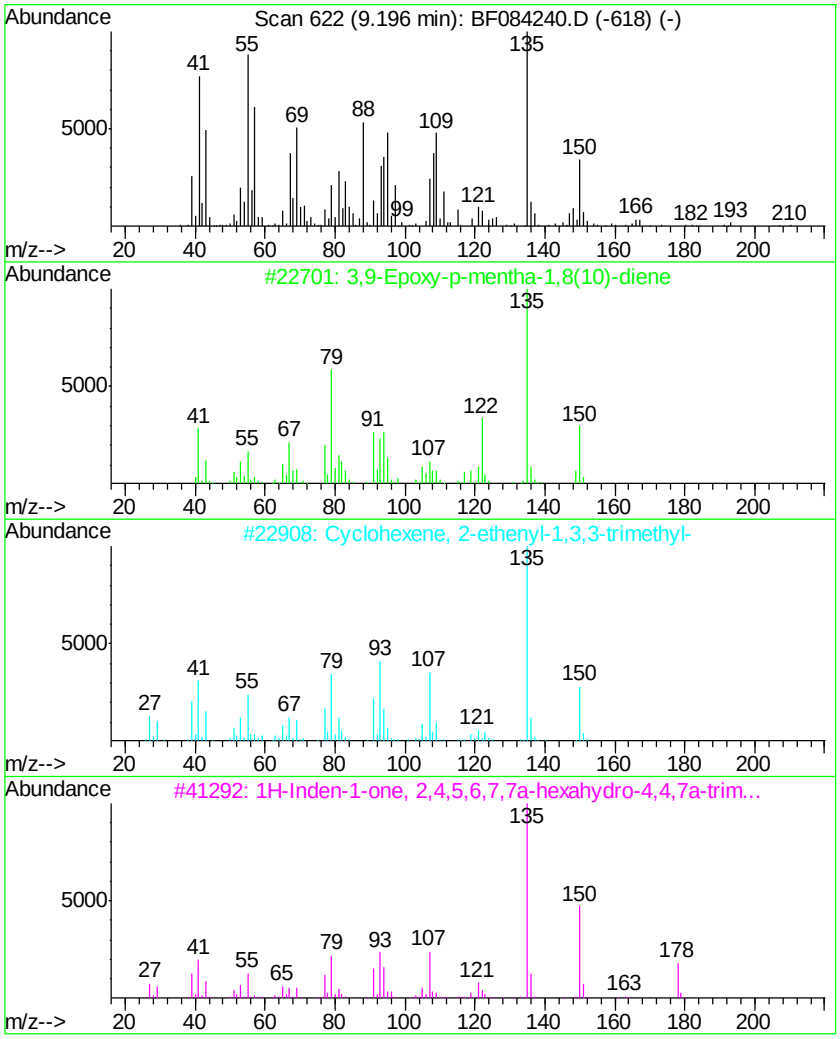
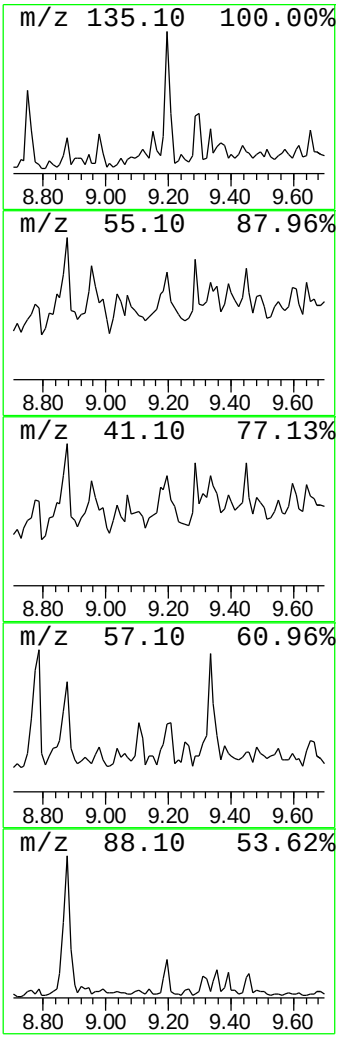
Peak Number 13 unknown9.20 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.20 | 18.05 ng | 2576500 | Acenaphthene-d10 | 9.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,9-Epoxy-p-mentha-1,8(10)-diene | 150 | C10H14O | 1000111-14-8 | 38 |
| 2 | Cyclohexene, 2-ethenyl-1,3,3-tri... | 150 | C11H18 | 005293-90-3 | 35 |
| 3 | 1H-Inden-1-one, 2,4,5,6,7,7a-hex... | 178 | C12H18O | 060713-96-4 | 30 |
| 4 | Benzeneacetonitrile, 4-fluoro- | 135 | C8H6FN | 000459-22-3 | 30 |
| 5 | Phenol, m-tert-butyl- | 150 | C10H14O | 000585-34-2 | 30 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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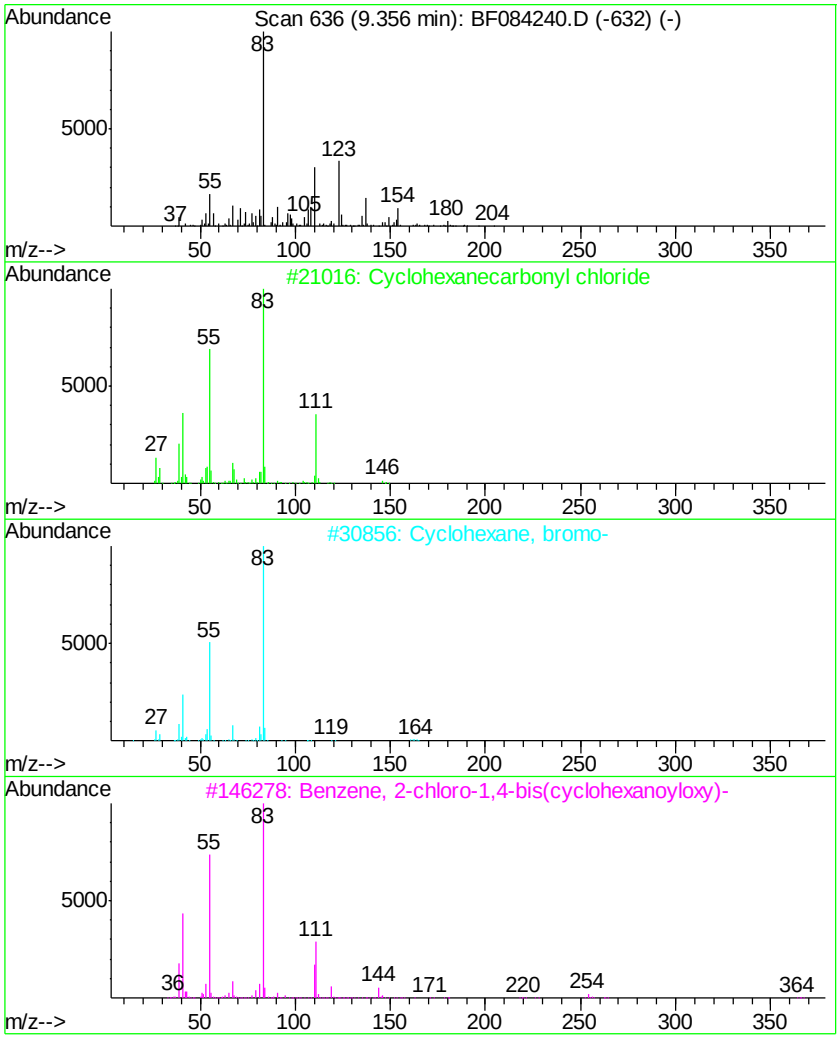
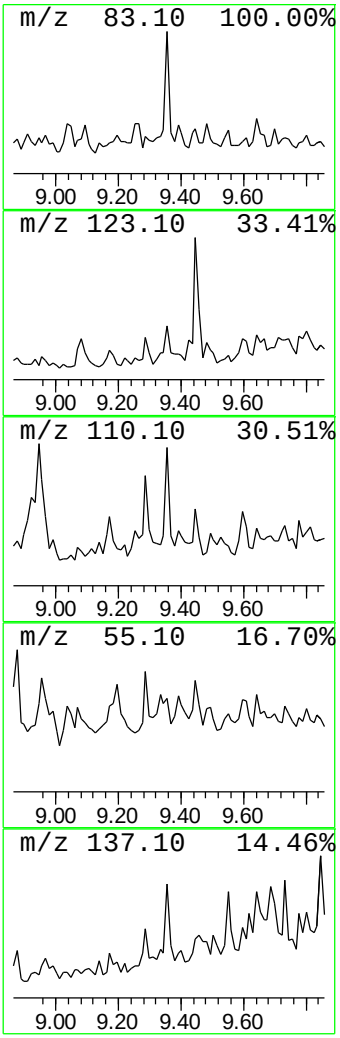
Peak Number 14 unknown9.36 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.36 | 8.92 ng | 1272930 | Acenaphthene-d10 | 9.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexanecarbonyl chloride | 146 | C7H11ClO | 002719-27-9 | 35 |
| 2 | Cyclohexane, bromo- | 162 | C6H11Br | 000108-85-0 | 25 |
| 3 | Benzene, 2-chloro-1,4-bis(cycloh... | 364 | C20H25ClO4 | 294874-04-7 | 23 |
| 4 | Cyclopropane, 2-bromo-1,1,3-trim... | 162 | C6H11Br | 036617-00-2 | 17 |
| 5 | Cyclohexane, hexyl- | 168 | C12H24 | 004292-75-5 | 17 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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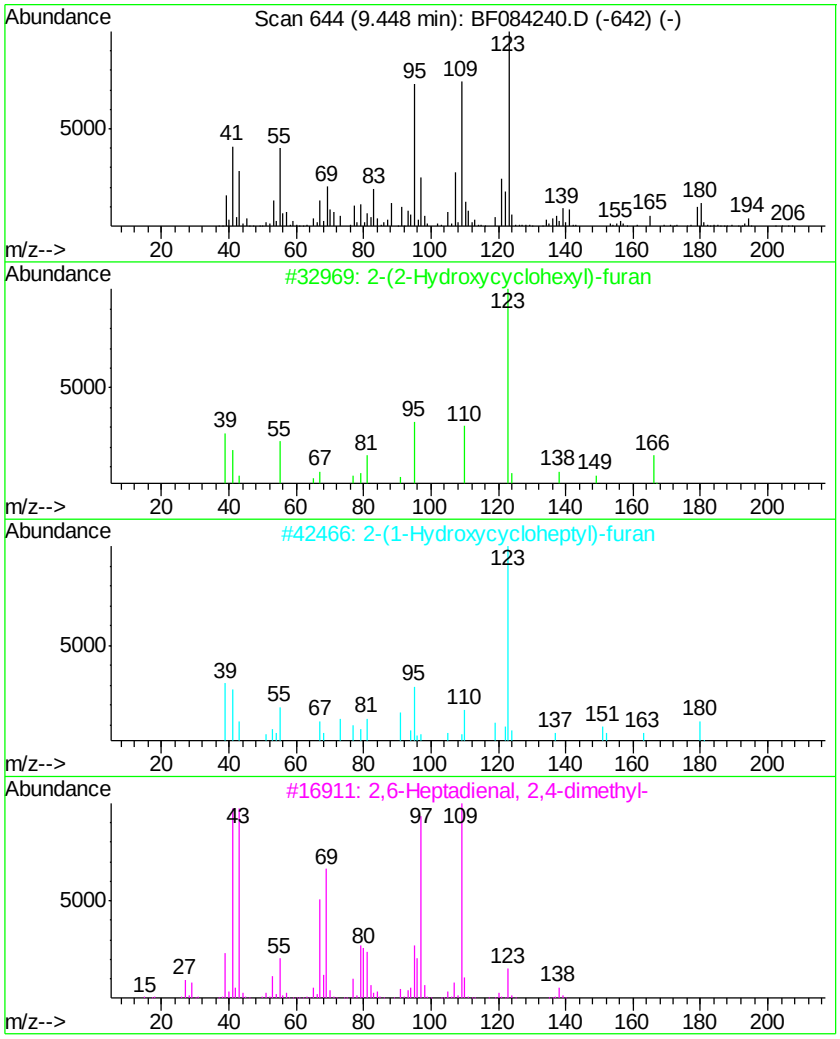
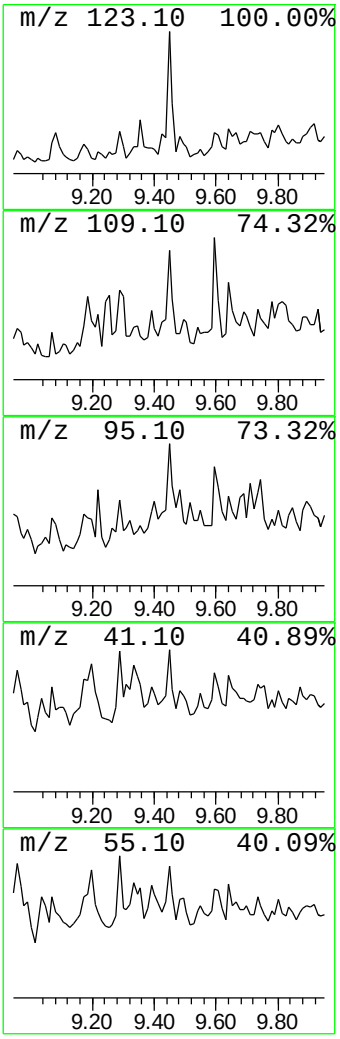
Peak Number 15 unknown9.45 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.45 | 11.54 ng | 1646920 | Acenaphthene-d10 | 9.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-(2-Hydroxycyclohexyl)-furan | 166 | C10H14O2 | 1000145-92-8 | 22 |
| 2 | 2-(1-Hydroxycycloheptyl)-furan | 180 | C11H16O2 | 115754-89-7 | 22 |
| 3 | 2,6-Heptadienal, 2,4-dimethyl- | 138 | C9H14O | 085136-08-9 | 22 |
| 4 | Bicyclo[2.2.1]heptan-2-ol, 1,7,7... | 154 | C10H18O | 000464-45-9 | 18 |
| 5 | Borneol | 154 | C10H18O | 010385-78-1 | 18 |



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Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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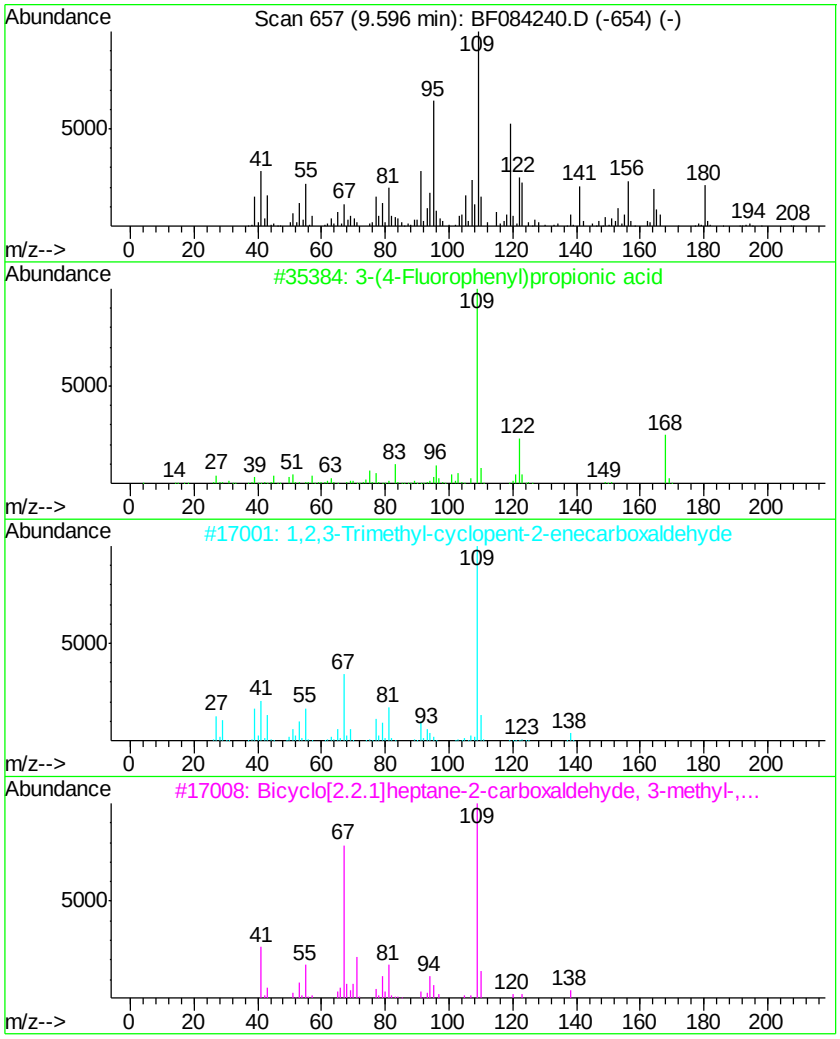
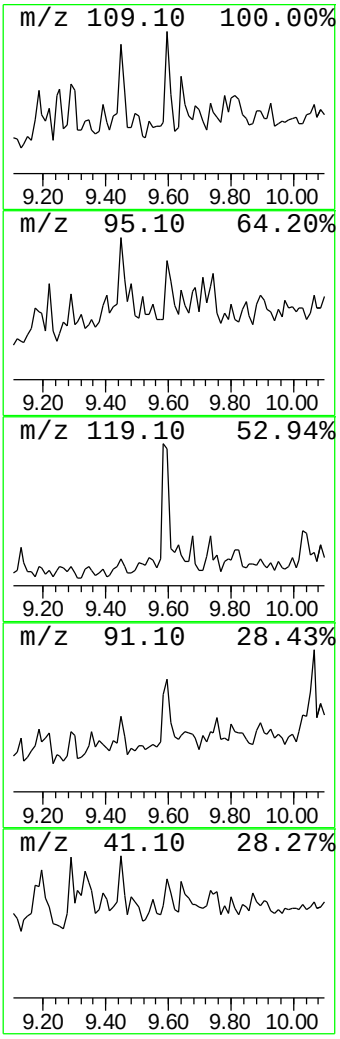
Peak Number 16 unknown9.60 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.60 | 12.68 ng | 1810990 | Acenaphthene-d10 | 9.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-(4-Fluorophenyl)propionic acid | 168 | C9H9FO2 | 000459-31-4 | 22 |
| 2 | 1,2,3-Trimethyl-cyclopent-2-enec... | 138 | C9H14O | 1000190-18-1 | 18 |
| 3 | Bicyclo[2.2.1]heptane-2-carboxal... | 138 | C9H14O | 015780-36-6 | 18 |
| 4 | 2-(5-Methyl-furan-2-yl)-propiona... | 138 | C8H10O2 | 1000193-72-3 | 14 |
| 5 | 1,2,4,4-Tetramethylcyclopentene | 124 | C9H16 | 065378-76-9 | 14 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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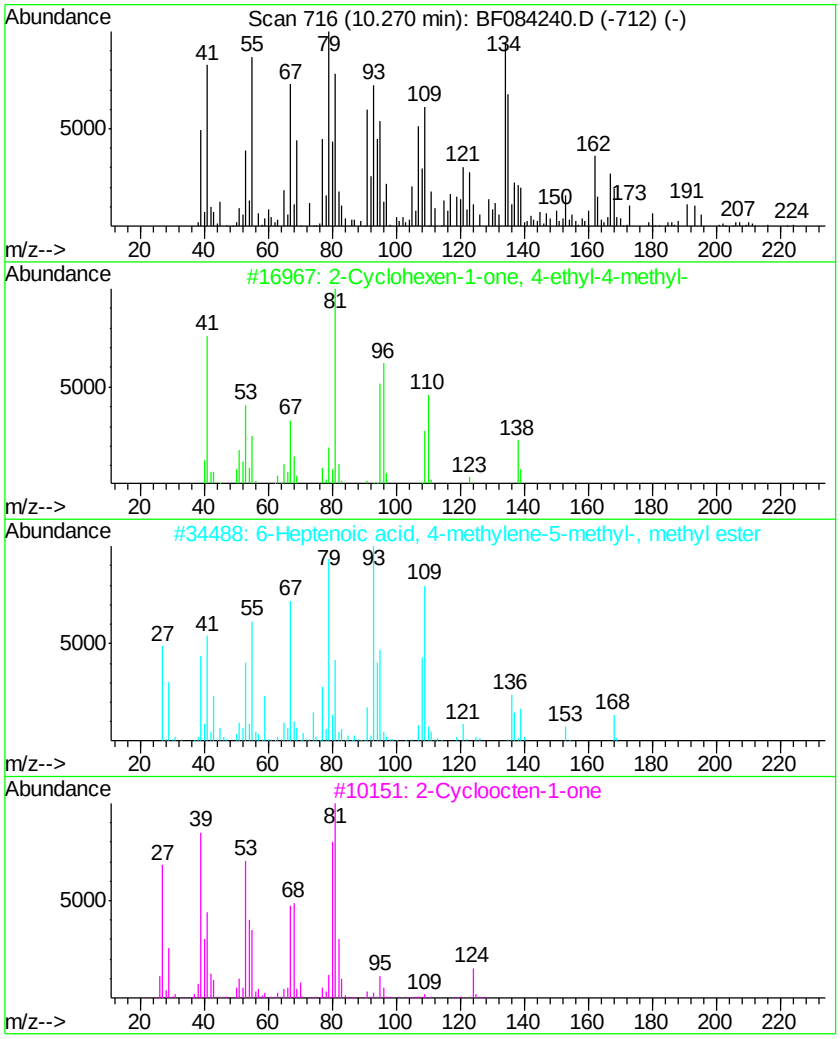
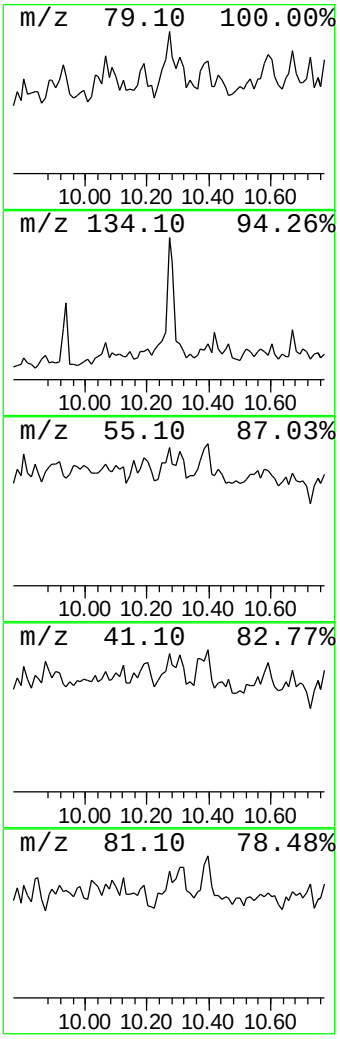
Peak Number 17 unknown10.27 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.27 | 14.29 ng | 2040060 | Acenaphthene-d10 | 9.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Cyclohexen-1-one, 4-ethyl-4-me... | 138 | C9H14O | 017429-32-2 | 43 |
| 2 | 6-Heptenoic acid, 4-methylene-5-... | 168 | C10H16O2 | 1000159-42-9 | 43 |
| 3 | 2-Cycloocten-1-one | 124 | C8H12O | 001728-25-2 | 38 |
| 4 | 1(3H)-Isobenzofuranone, 3a,4,5,7... | 182 | C10H14O3 | 054346-06-4 | 35 |
| 5 | (E)-2-Butenylcyclopropane | 96 | C7H12 | 076588-98-2 | 30 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

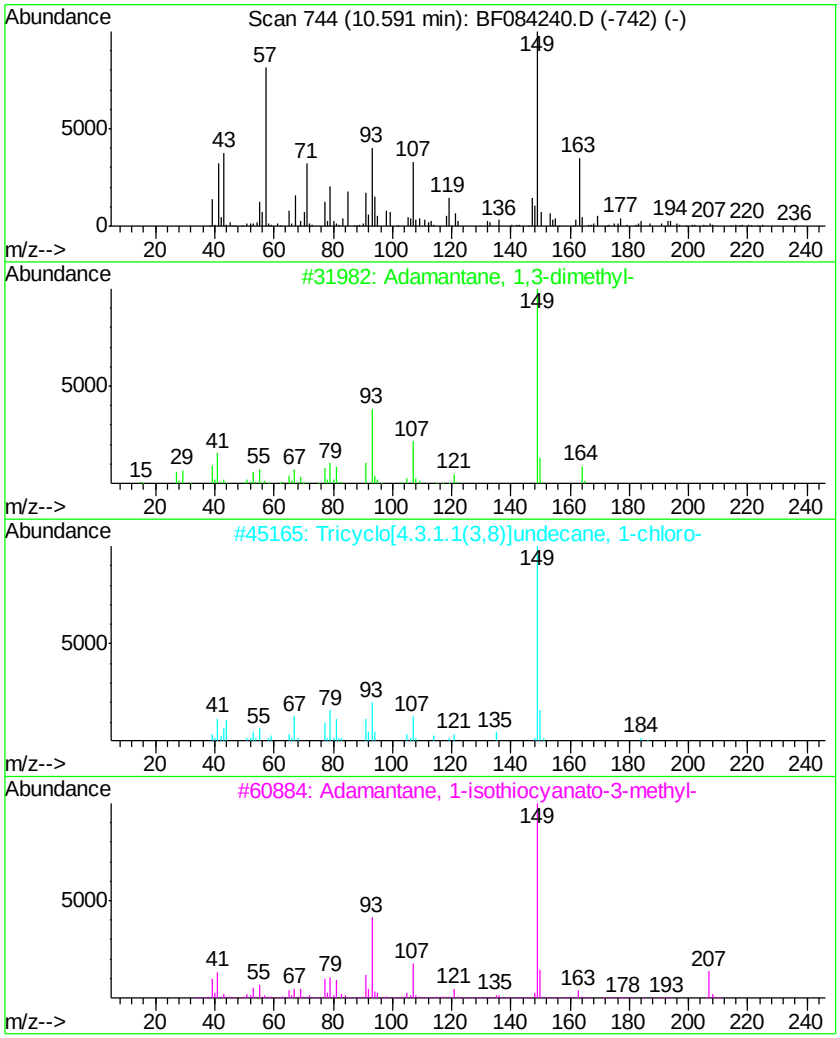
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

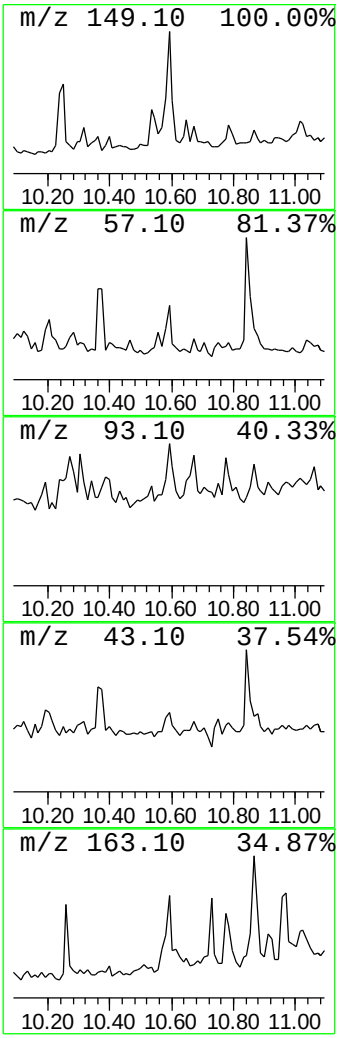
**********

Peak Number 18 Adamantane, 1,3-dimethyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.59 | 6.94 ng | 990249 | Acenaphthene-d10 | 9.94 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Adamantane, 1,3-dimethyl- | 164 | C12H20 | 000702-79-4 | 50 |
| 2 | Tricyclo[4.3.1.1(3,8)]undecane, ... | 184 | C11H17Cl | 027011-46-7 | 46 |
| 3 | Adamantane, 1-isothiocyanato-3-m... | 207 | C12H17NS | 136860-48-5 | 40 |
| 4 | Tricyclo[4.3.1.1(3,8)]undecane, ... | 228 | C11H17Br | 021898-96-4 | 38 |
| 5 | 1-Methyl-3-ethyladamantane | 178 | C13H22 | 001687-34-9 | 38 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

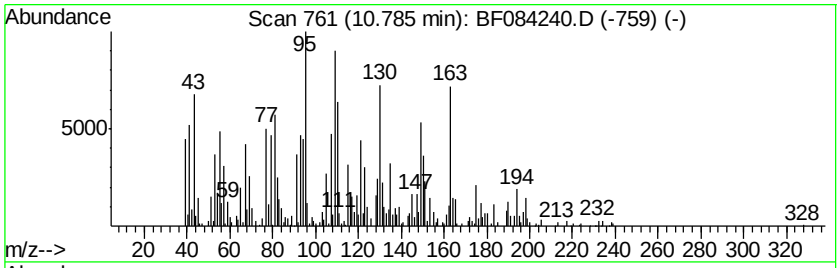
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

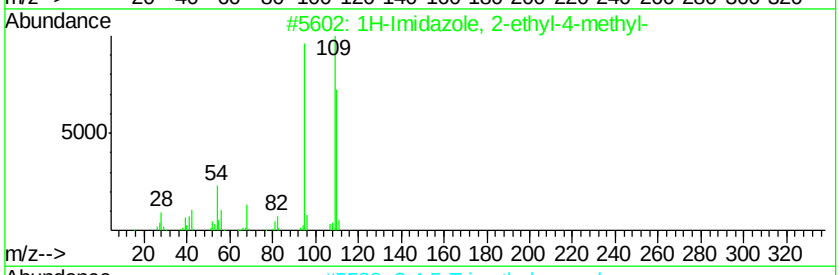
**********

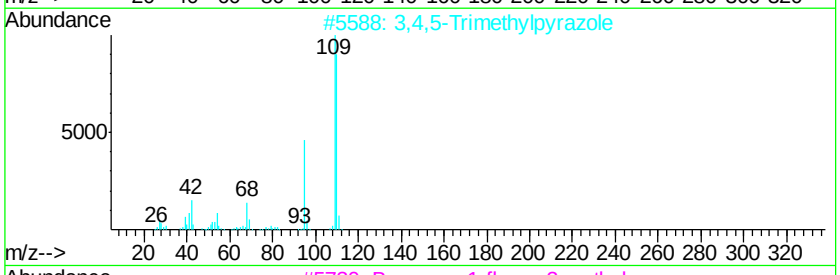
Peak Number 19 unknown10.78 Concentration Rank 14

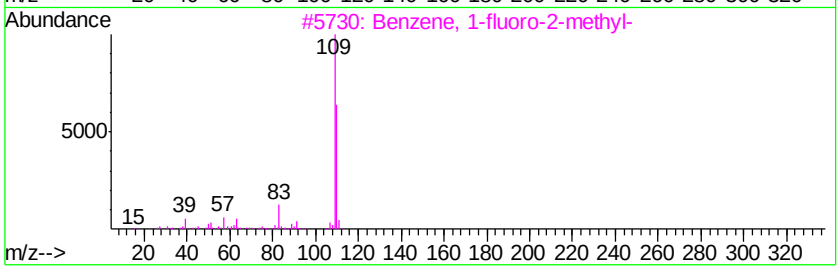
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.78 | 8.97 ng | 874718 | Phenanthrene-d10 | 11.42 |

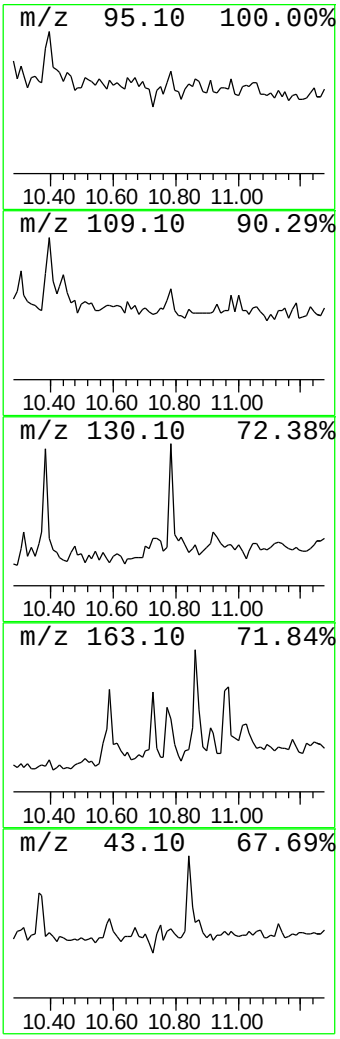
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Imidazole, 2-ethyl-4-methyl- | 110 | C6H10N2 | 000931-36-2 | 42 |
| 2 | 3,4,5-Trimethylpyrazole | 110 | C6H10N2 | 005519-42-6 | 38 |
| 3 | Benzene, 1-fluoro-2-methyl- | 110 | C7H7F | 000095-52-3 | 18 |
| 4 | Benzene, (fluoromethyl)- | 110 | C7H7F | 000350-50-5 | 18 |
| 5 | Cyclohexene, 1,2-dimethyl- | 110 | C8H14 | 001674-10-8 | 18 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF010416\
Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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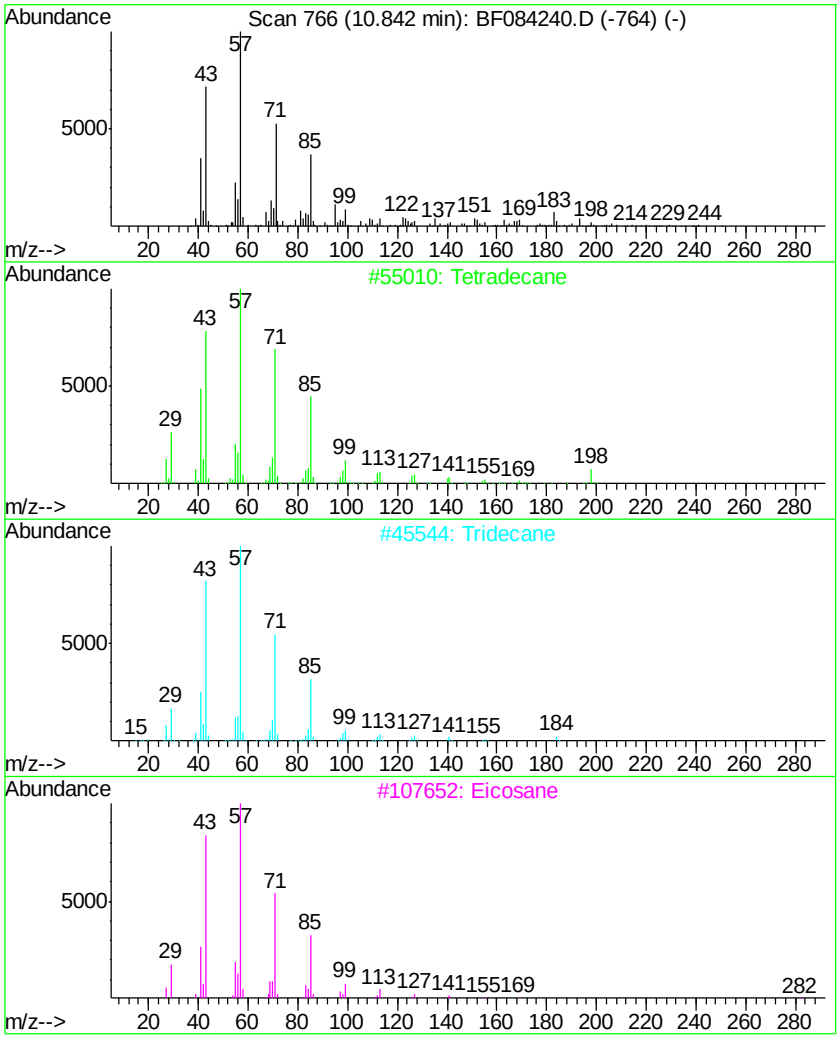
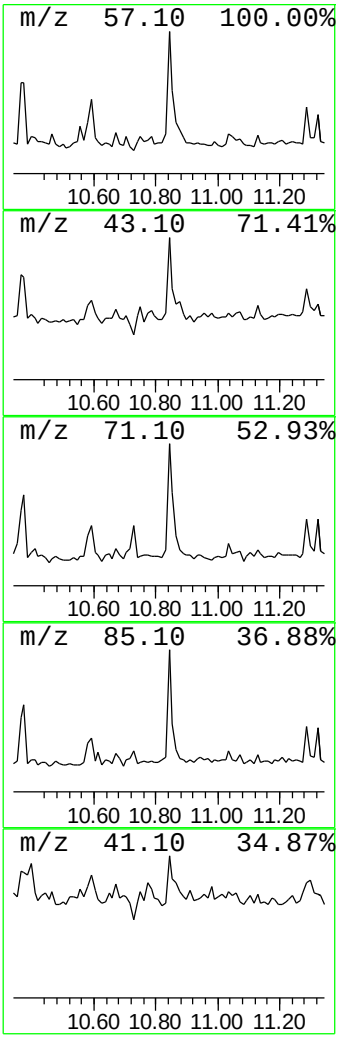
Peak Number 20 Tetradecane Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.84 | 18.19 ng | 1772860 | Phenanthrene-d10 | 11.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 86 |
| 2 | Tridecane | 184 | C13H28 | 000629-50-5 | 70 |
| 3 | Eicosane | 282 | C20H42 | 000112-95-8 | 62 |
| 4 | Decane, 1-bromo-2-methyl- | 234 | C11H23Br | 127839-47-8 | 62 |
| 5 | Octacosane | 394 | C28H58 | 000630-02-4 | 58 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF010416\
Data File : BF084240.D
Acq On : 4 Jan 2016 15:50
Operator : UM/SJ
Sample : G4981-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** S8-0529

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF123115.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 |
| unknown5.07 | 5.07 | 13.2 | ng | 1793860 | 1 | 6.89 | 2727720 | 20.0 |
| unknown6.66 | 6.66 | 51.9 | ng | 7083590 | 1 | 6.89 | 2727720 | 20.0 |
| Benzene, 1,2,3-tr... | 6.72 | 9.2 | ng | 1248000 | 1 | 6.89 | 2727720 | 20.0 |
| unknown7.53 | 7.53 | 18.4 | ng | 2510980 | 1 | 6.89 | 2727720 | 20.0 |
| Benzene, 1-methyl... | 7.92 | 14.7 | ng | 2784150 | 2 | 8.18 | 3794430 | 20.0 |
| 1,1'-Bicyclooctyl | 8.43 | 7.9 | ng | 1503590 | 2 | 8.18 | 3794430 | 20.0 |
| Naphthalene, deca... | 8.56 | 12.6 | ng | 2380980 | 2 | 8.18 | 3794430 | 20.0 |
| 4-Ethyl-2-hexynal | 8.66 | 7.3 | ng | 1384800 | 2 | 8.18 | 3794430 | 20.0 |
| unknown8.77 | 8.77 | 8.7 | ng | 1657460 | 2 | 8.18 | 3794430 | 20.0 |
| unknown8.88 | 8.88 | 27.4 | ng | 5191770 | 2 | 8.18 | 3794430 | 20.0 |
| unknown9.20 | 9.20 | 18.1 | ng | 2576500 | 3 | 9.94 | 2855500 | 20.0 |
| unknown9.36 | 9.36 | 8.9 | ng | 1272930 | 3 | 9.94 | 2855500 | 20.0 |
| unknown9.45 | 9.45 | 11.5 | ng | 1646920 | 3 | 9.94 | 2855500 | 20.0 |
| unknown9.60 | 9.60 | 12.7 | ng | 1810990 | 3 | 9.94 | 2855500 | 20.0 |
| unknown10.27 | 10.27 | 14.3 | ng | 2040060 | 3 | 9.94 | 2855500 | 20.0 |
| Adamantane, 1,3-d... | 10.59 | 6.9 | ng | 990249 | 3 | 9.94 | 2855500 | 20.0 |
| unknown10.78 | 10.78 | 9.0 | ng | 874718 | 4 | 11.42 | 1949380 | 20.0 |
| Tetradecane | 10.84 | 18.2 | ng | 1772860 | 4 | 11.42 | 1949380 | 20.0 |