LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.922 | 3 | 6 | 15 | rVB | 568705 | 536699 | 4.75% | 0.516% |
| 2 | 3.240 | 56 | 60 | 64 | rVB2 | 30190 | 35946 | 0.32% | 0.035% |
| 3 | 3.693 | 134 | 137 | 141 | rVB | 10045 | 13206 | 0.12% | 0.013% |
| 4 | 5.934 | 514 | 518 | 525 | rVB6 | 6673 | 12902 | 0.11% | 0.012% |
| 5 | 7.416 | 761 | 770 | 779 | rBV | 610091 | 920686 | 8.15% | 0.885% |
| 6 | 7.616 | 800 | 804 | 812 | rVV7 | 6596 | 12309 | 0.11% | 0.012% |
| 7 | 10.175 | 1232 | 1239 | 1249 | rBV | 711750 | 1166202 | 10.32% | 1.121% |
| 8 | 14.069 | 1894 | 1901 | 1914 | rBV2 | 903769 | 1291542 | 11.43% | 1.241% |
| 9 | 14.204 | 1918 | 1924 | 1934 | rVV | 55032 | 81993 | 0.73% | 0.079% |
| 10 | 15.028 | 2059 | 2064 | 2070 | rVB2 | 13362 | 20346 | 0.18% | 0.020% |
| 11 | 15.339 | 2112 | 2117 | 2125 | rBV | 845942 | 1116282 | 9.88% | 1.073% |
| 12 | 15.786 | 2188 | 2193 | 2199 | rBV | 124549 | 156138 | 1.38% | 0.150% |
| 13 | 15.951 | 2215 | 2221 | 2227 | rBV | 331000 | 425670 | 3.77% | 0.409% |
| 14 | 16.069 | 2235 | 2241 | 2255 | rBV | 2082821 | 2626372 | 23.24% | 2.524% |
| 15 | 16.363 | 2286 | 2291 | 2297 | rBV | 397010 | 520513 | 4.61% | 0.500% |
| 16 | 16.716 | 2345 | 2351 | 2355 | rBV | 4953730 | 6627968 | 58.65% | 6.371% |
| 17 | 16.751 | 2355 | 2357 | 2363 | rVV | 1659187 | 1803563 | 15.96% | 1.734% |
| 18 | 16.822 | 2363 | 2369 | 2373 | rVV | 1451784 | 1952919 | 17.28% | 1.877% |
| 19 | 16.863 | 2373 | 2376 | 2384 | rVB | 240722 | 346332 | 3.06% | 0.333% |
| 20 | 17.010 | 2394 | 2401 | 2413 | rVB2 | 2347747 | 3598703 | 31.85% | 3.459% |
| 21 | 17.127 | 2417 | 2421 | 2428 | rBV4 | 12275 | 20016 | 0.18% | 0.019% |
| 22 | 17.204 | 2430 | 2434 | 2441 | rVB3 | 33793 | 45785 | 0.41% | 0.044% |
| 23 | 17.286 | 2443 | 2448 | 2452 | rBV | 640552 | 916589 | 8.11% | 0.881% |
| 24 | 17.322 | 2452 | 2454 | 2461 | rVV | 245080 | 244359 | 2.16% | 0.235% |
| 25 | 17.380 | 2461 | 2464 | 2466 | rVV3 | 11005 | 11656 | 0.10% | 0.011% |
| 26 | 17.433 | 2466 | 2473 | 2485 | rVV | 5882163 | 11300295 | 100.00% | 10.862% |
| 27 | 17.563 | 2487 | 2495 | 2501 | rVV2 | 3303262 | 4857360 | 42.98% | 4.669% |
| 28 | 17.627 | 2501 | 2506 | 2510 | rVV | 232995 | 298412 | 2.64% | 0.287% |
| 29 | 17.680 | 2510 | 2515 | 2520 | rVV | 1592793 | 2089448 | 18.49% | 2.008% |
| 30 | 17.733 | 2520 | 2524 | 2530 | rVB | 818031 | 1068094 | 9.45% | 1.027% |
| 31 | 17.845 | 2537 | 2543 | 2548 | rBV | 346211 | 444826 | 3.94% | 0.428% |
| 32 | 17.910 | 2548 | 2554 | 2560 | rVV | 4199014 | 5539154 | 49.02% | 5.324% |
| 33 | 17.969 | 2560 | 2564 | 2567 | rVV | 2720472 | 3356555 | 29.70% | 3.226% |
| 34 | 18.010 | 2567 | 2571 | 2577 | rVB | 2213529 | 2671753 | 23.64% | 2.568% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 18.192 | 2596 | 2602 | 2607 | rBV | 3819691 | 5123597 | 45.34% | 4.925% |
| 36 | 18.239 | 2607 | 2610 | 2615 | rVV | 1163552 | 1514843 | 13.41% | 1.456% |
| 37 | 18.298 | 2615 | 2620 | 2623 | rVV | 971252 | 1315453 | 11.64% | 1.264% |
| 38 | 18.333 | 2623 | 2626 | 2629 | rVV | 1091038 | 1411052 | 12.49% | 1.356% |
| 39 | 18.369 | 2629 | 2632 | 2638 | rVV | 2499334 | 3158613 | 27.95% | 3.036% |
| 40 | 18.433 | 2639 | 2643 | 2645 | rVV2 | 46565 | 59188 | 0.52% | 0.057% |
| 41 | 18.469 | 2645 | 2649 | 2656 | rVB | 770810 | 1009572 | 8.93% | 0.970% |
| 42 | 18.551 | 2656 | 2663 | 2671 | rBV | 120788 | 164249 | 1.45% | 0.158% |
| 43 | 18.627 | 2671 | 2676 | 2680 | rBV | 175277 | 227201 | 2.01% | 0.218% |
| 44 | 18.686 | 2680 | 2686 | 2690 | rBV | 2170183 | 2625561 | 23.23% | 2.524% |
| 45 | 18.739 | 2690 | 2695 | 2698 | rVV | 4027488 | 5824719 | 51.54% | 5.599% |
| 46 | 18.780 | 2698 | 2702 | 2707 | rVV2 | 4046155 | 5506270 | 48.73% | 5.293% |
| 47 | 18.851 | 2709 | 2714 | 2718 | rVV | 328764 | 405017 | 3.58% | 0.389% |
| 48 | 18.886 | 2718 | 2720 | 2725 | rVB | 61858 | 73566 | 0.65% | 0.071% |
| 49 | 18.992 | 2731 | 2738 | 2744 | rBV | 2064964 | 4226411 | 37.40% | 4.062% |
| 50 | 19.051 | 2744 | 2748 | 2755 | rVV | 1540648 | 2253393 | 19.94% | 2.166% |
| 51 | 19.116 | 2755 | 2759 | 2765 | rVB | 762825 | 902575 | 7.99% | 0.868% |
| 52 | 19.192 | 2768 | 2772 | 2776 | rBV5 | 32749 | 48361 | 0.43% | 0.046% |
| 53 | 19.245 | 2777 | 2781 | 2785 | rVB | 124574 | 146775 | 1.30% | 0.141% |
| 54 | 19.316 | 2788 | 2793 | 2799 | rBV | 636434 | 788066 | 6.97% | 0.757% |
| 55 | 19.392 | 2799 | 2806 | 2811 | rVV | 814031 | 1074794 | 9.51% | 1.033% |
| 56 | 19.445 | 2811 | 2815 | 2819 | rVV | 484382 | 573912 | 5.08% | 0.552% |
| 57 | 19.504 | 2819 | 2825 | 2829 | rVV | 1451345 | 1749787 | 15.48% | 1.682% |
| 58 | 19.545 | 2829 | 2832 | 2840 | rVB | 328785 | 417200 | 3.69% | 0.401% |
| 59 | 19.645 | 2842 | 2849 | 2859 | rBV | 401091 | 576796 | 5.10% | 0.554% |
| 60 | 19.721 | 2859 | 2862 | 2865 | rVV | 58967 | 68685 | 0.61% | 0.066% |
| 61 | 19.763 | 2865 | 2869 | 2874 | rVV3 | 205236 | 352495 | 3.12% | 0.339% |
| 62 | 19.821 | 2874 | 2879 | 2884 | rVB | 1230934 | 1421144 | 12.58% | 1.366% |
| 63 | 19.898 | 2889 | 2892 | 2895 | rVB4 | 20552 | 20227 | 0.18% | 0.019% |
| 64 | 19.951 | 2897 | 2901 | 2908 | rBV3 | 85458 | 167001 | 1.48% | 0.161% |
| 65 | 20.051 | 2913 | 2918 | 2922 | rBV | 173483 | 203889 | 1.80% | 0.196% |
| 66 | 20.098 | 2922 | 2926 | 2927 | rBV2 | 113615 | 112085 | 0.99% | 0.108% |
| 67 | 20.127 | 2927 | 2931 | 2936 | rVB | 836867 | 983849 | 8.71% | 0.946% |
| 68 | 20.204 | 2940 | 2944 | 2948 | rBV3 | 57237 | 71497 | 0.63% | 0.069% |
| 69 | 20.274 | 2952 | 2956 | 2958 | rBV5 | 23840 | 32988 | 0.29% | 0.032% |
| 70 | 20.298 | 2958 | 2960 | 2963 | rVB4 | 22447 | 20915 | 0.19% | 0.020% |
| 71 | 20.363 | 2964 | 2971 | 2979 | rBV | 220255 | 377498 | 3.34% | 0.363% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0.1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

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

Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Title : SVOA CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 20.451 | 2983 | 2986 | 2989 | rVV4 | 25199 | 28292 | 0.25% | 0.027% |
| 73 | 20.515 | 2994 | 2997 | 3002 | rVB6 | 29256 | 37434 | 0.33% | 0.036% |
| 74 | 20.668 | 3020 | 3023 | 3028 | rBV2 | 74588 | 87296 | 0.77% | 0.084% |
| 75 | 20.786 | 3040 | 3043 | 3047 | rVB5 | 35640 | 38173 | 0.34% | 0.037% |
| 76 | 20.921 | 3064 | 3066 | 3070 | rVB3 | 42450 | 38877 | 0.34% | 0.037% |
| 77 | 21.033 | 3080 | 3085 | 3089 | rBV | 1011634 | 1279029 | 11.32% | 1.229% |
| 78 | 21.068 | 3089 | 3091 | 3097 | rVB5 | 77378 | 94959 | 0.84% | 0.091% |
| 79 | 23.127 | 3436 | 3441 | 3449 | rVB | 765591 | 1293570 | 11.45% | 1.243% |

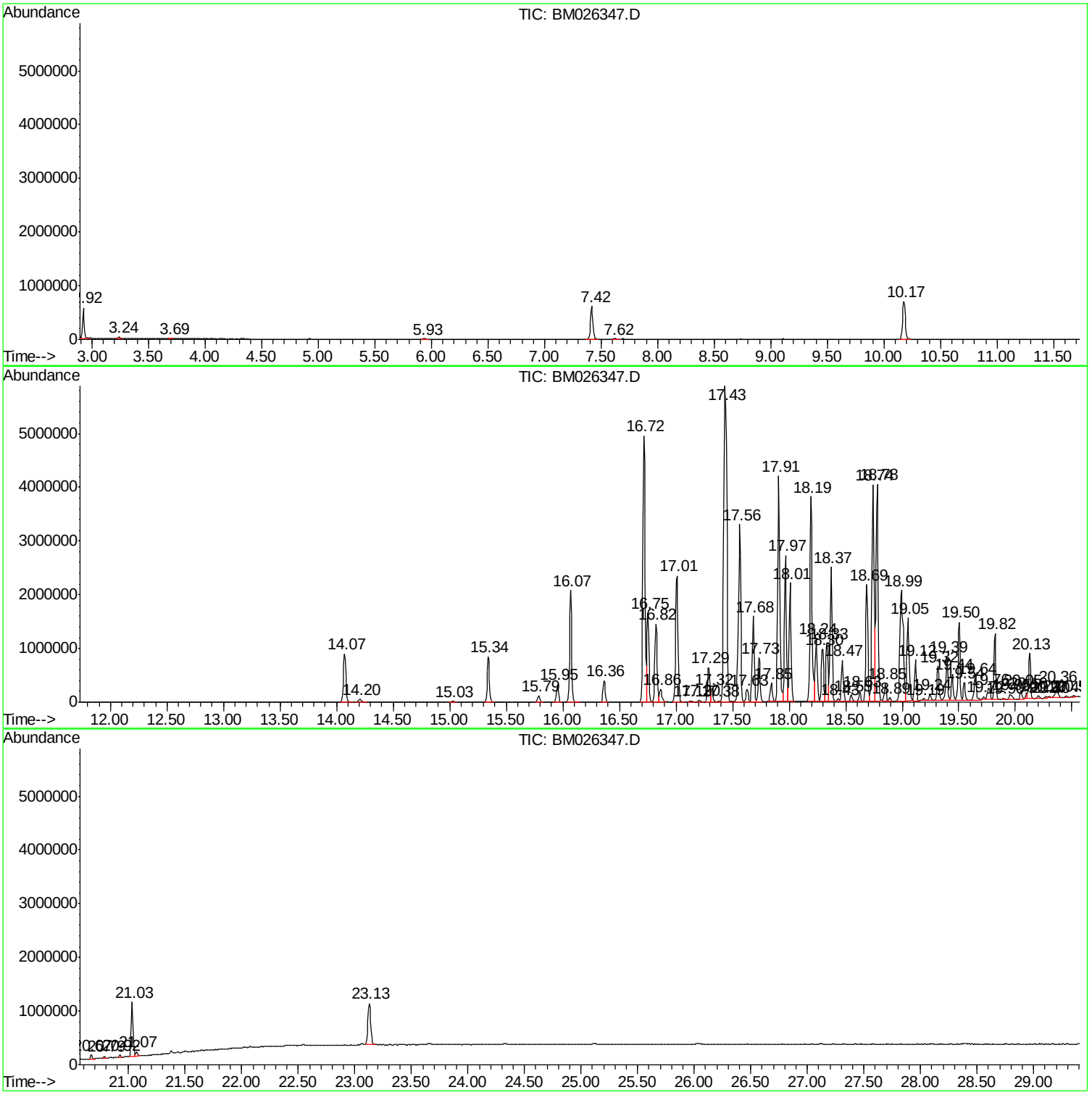
Sum of corrected areas: 104037467

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :**
BNA_M
**ClientSampleId :**
ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

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



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

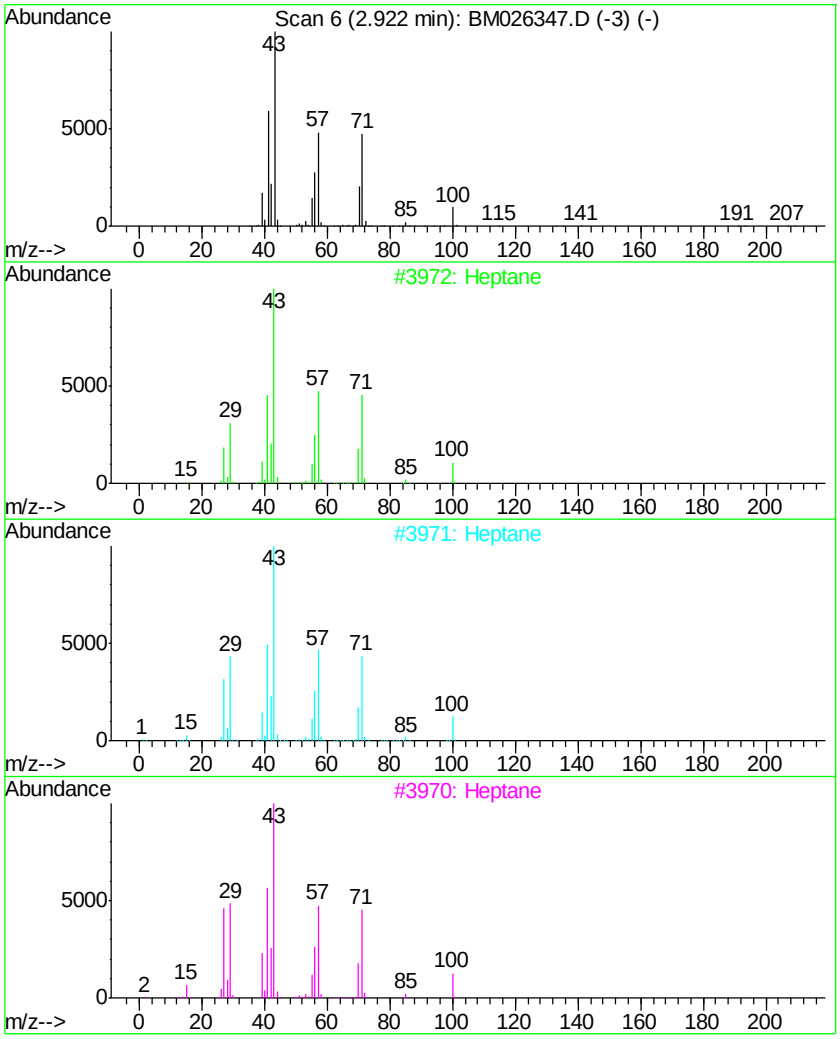
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

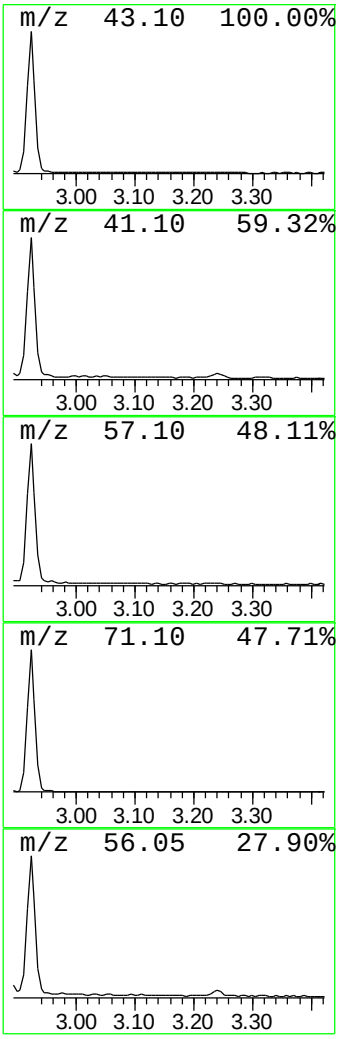
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.92 | 11.66 ng/ul | 536699 | 1,4-Dichlorobenzene-d4 | 7.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane | 100 | C7H16 | 000142-82-5 | 94 |
| 2 | Heptane | 100 | C7H16 | 000142-82-5 | 94 |
| 3 | Heptane | 100 | C7H16 | 000142-82-5 | 91 |
| 4 | Heptane | 100 | C7H16 | 000142-82-5 | 90 |
| 5 | Hexane, 3,3-dimethyl- | 114 | C8H18 | 000563-16-6 | 47 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

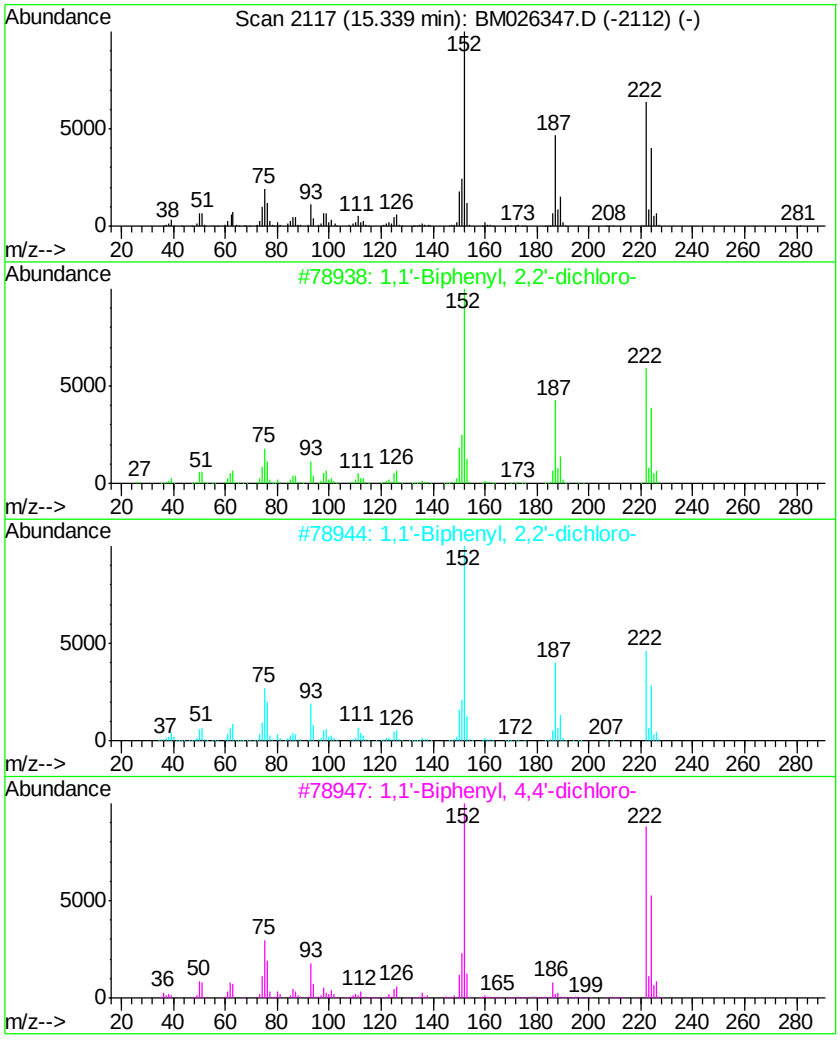
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

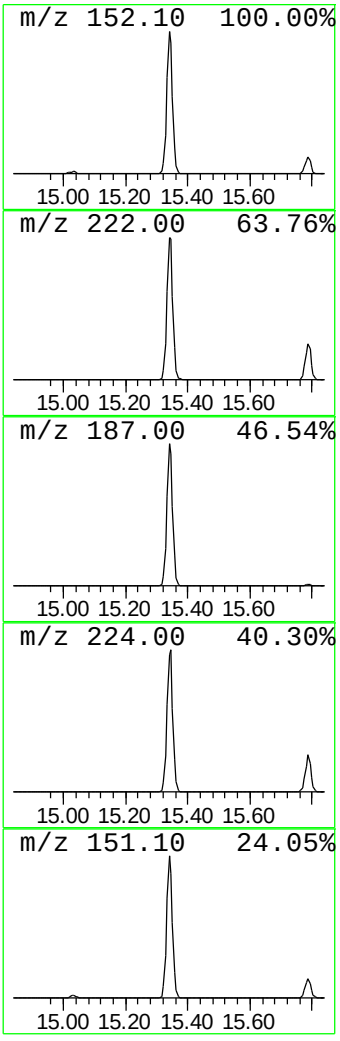
**********

Peak Number 2 1,1'-Biphenyl, 2,2'-dichloro- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.34 | 17.29 ng/ul | 1116280 | Acenaphthene-d10 | 14.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2'-dichloro- | 222 | C12H8Cl2 | 013029-08-8 | 99 |
| 2 | 1,1'-Biphenyl, 2,2'-dichloro- | 222 | C12H8Cl2 | 013029-08-8 | 99 |
| 3 | 1,1'-Biphenyl, 4,4'-dichloro- | 222 | C12H8Cl2 | 002050-68-2 | 98 |
| 4 | 1,1'-Biphenyl, 2,4'-dichloro- | 222 | C12H8Cl2 | 034883-43-7 | 98 |
| 5 | 1,1'-Biphenyl, 2,5-dichloro- | 222 | C12H8Cl2 | 034883-39-1 | 97 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

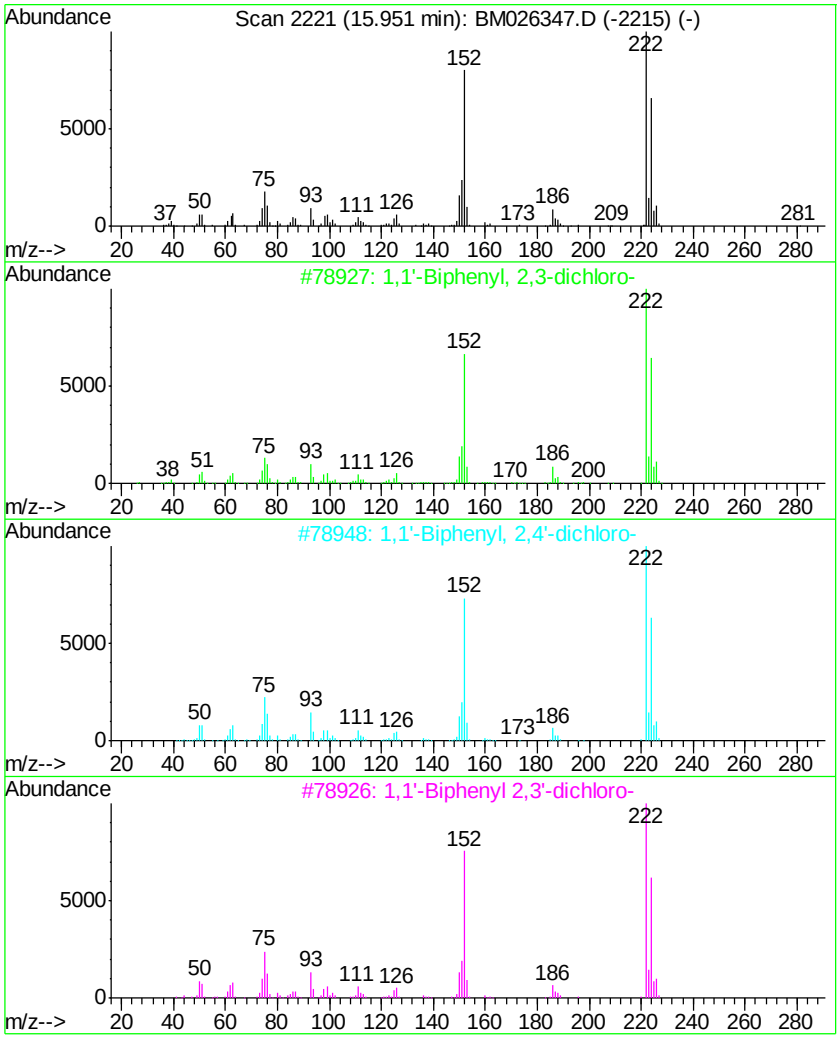
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

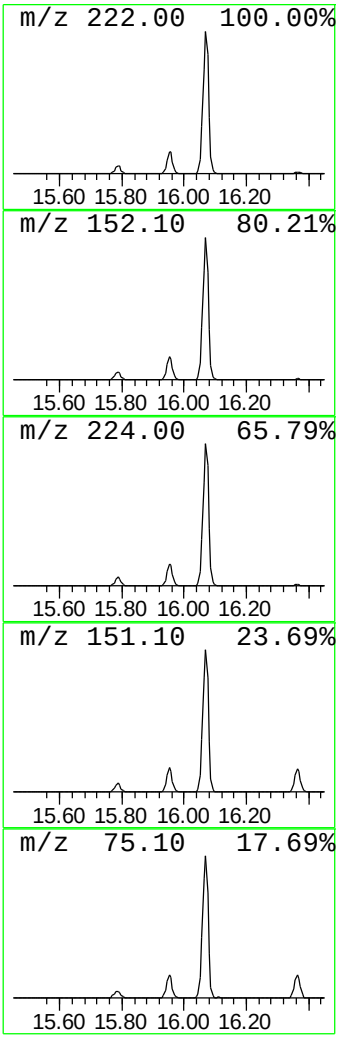
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 1,1'-Biphenyl, 2,3-dichloro- Concentration Rank 39

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.95 | 4.36 ng/ul | 425670 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,3-dichloro- | 222 | C12H8Cl2 | 016605-91-7 | 99 |
| 2 | 1,1'-Biphenyl, 2,4'-dichloro- | 222 | C12H8Cl2 | 034883-43-7 | 99 |
| 3 | 1,1'-Biphenyl 2,3'-dichloro- | 222 | C12H8Cl2 | 025569-80-6 | 99 |
| 4 | 1,1'-Biphenyl, 3,5-dichloro- | 222 | C12H8Cl2 | 034883-41-5 | 98 |
| 5 | 1,1'-Biphenyl, 2,5-dichloro- | 222 | C12H8Cl2 | 034883-39-1 | 98 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

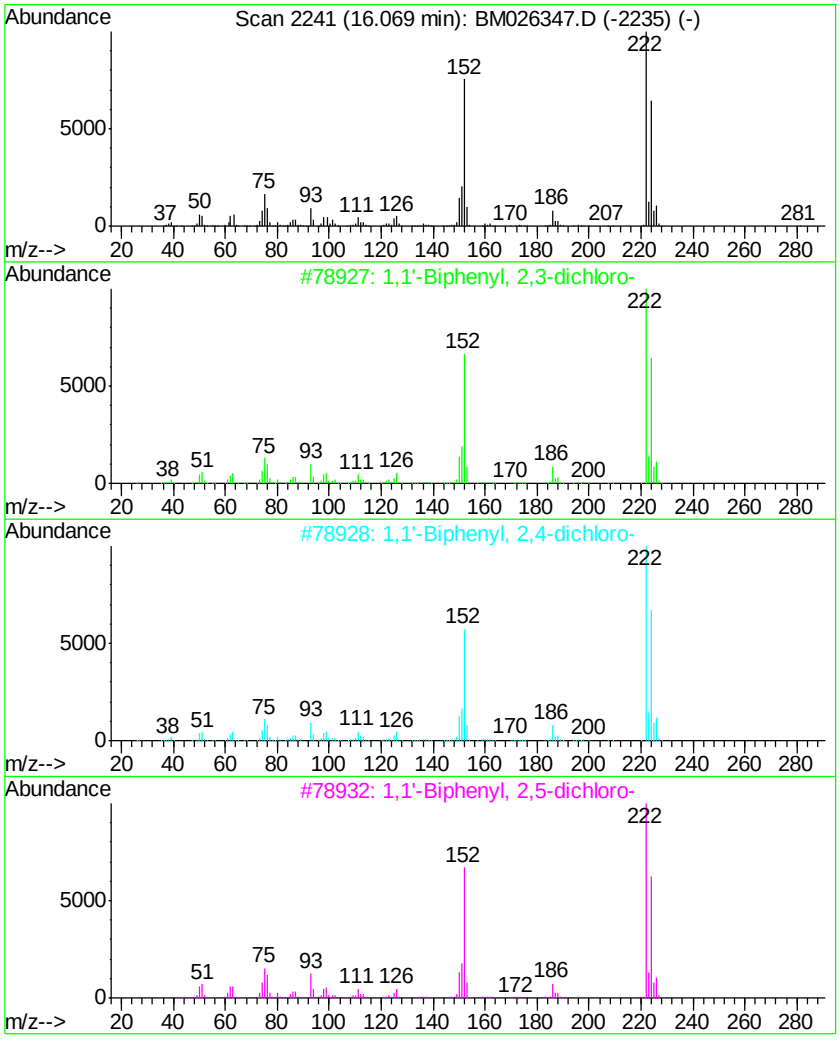
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

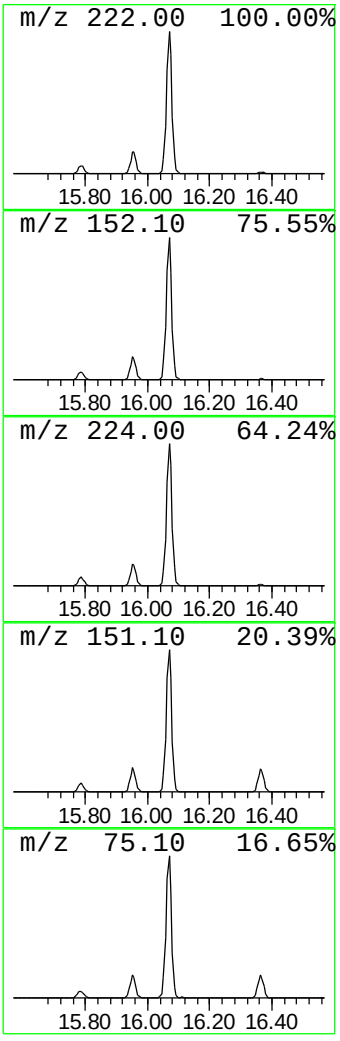
**********

Peak Number 4 1,1'-Biphenyl, 2,4-dichloro- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.07 | 26.90 ng/ul | 2626370 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,3-dichloro- | 222 | C12H8Cl2 | 016605-91-7 | 99 |
| 2 | 1,1'-Biphenyl, 2,4-dichloro- | 222 | C12H8Cl2 | 033284-50-3 | 99 |
| 3 | 1,1'-Biphenyl, 2,5-dichloro- | 222 | C12H8Cl2 | 034883-39-1 | 99 |
| 4 | 1,1'-Biphenyl, 3,3'-dichloro- | 222 | C12H8Cl2 | 002050-67-1 | 99 |
| 5 | 1,1'-Biphenyl, 2,4'-dichloro- | 222 | C12H8Cl2 | 034883-43-7 | 98 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

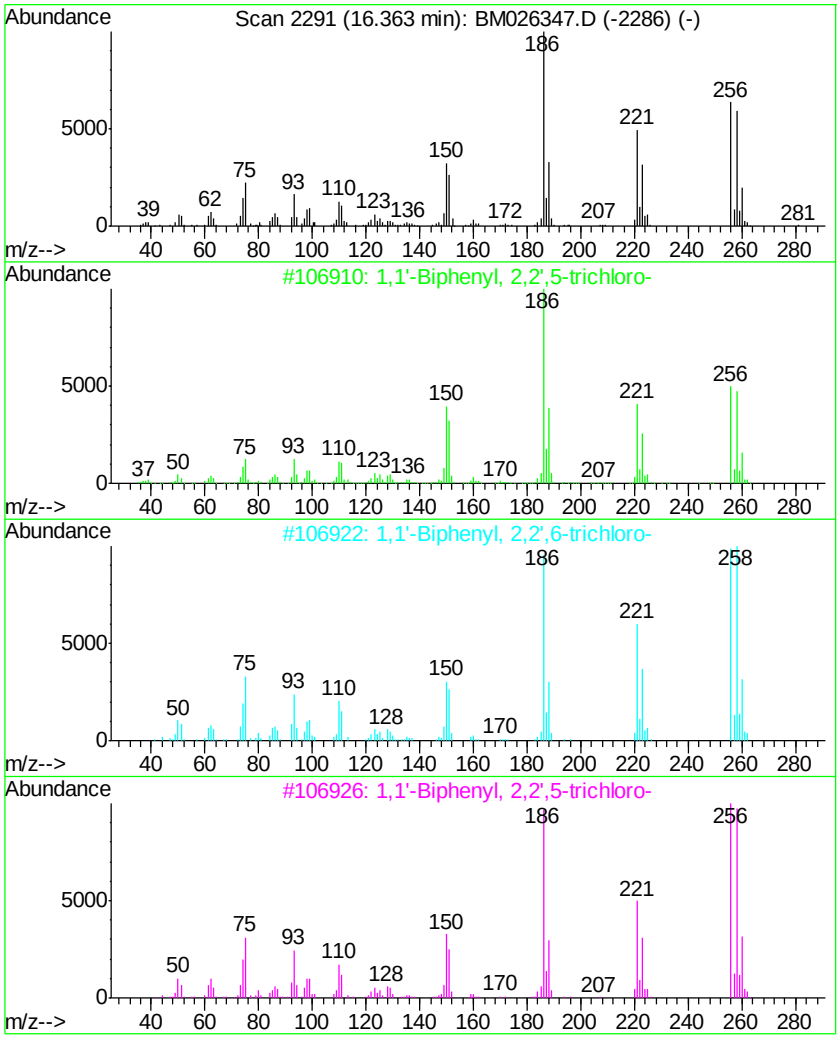
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

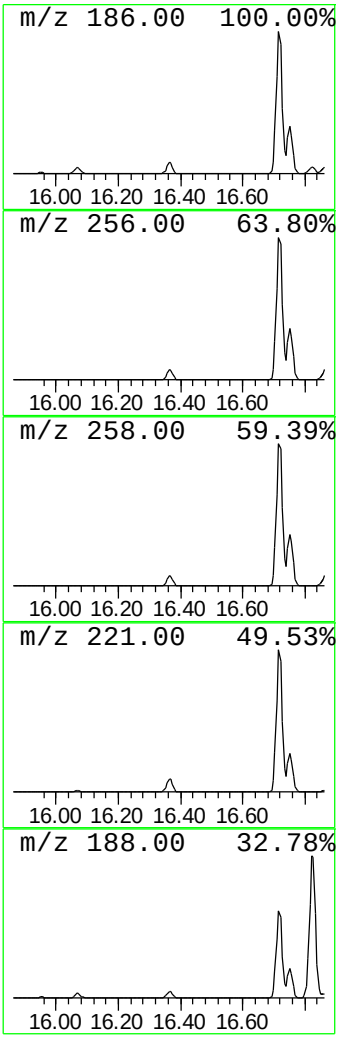
**********

Peak Number 5 1,1'-Biphenyl, 2,2',5-trich... Concentration Rank 37

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.36 | 5.33 ng/ul | 520513 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',5-trichloro- | 256 | C12H7Cl3 | 037680-65-2 | 99 |
| 2 | 1,1'-Biphenyl, 2,2',6-trichloro- | 256 | C12H7Cl3 | 038444-73-4 | 99 |
| 3 | 1,1'-Biphenyl, 2,2',5-trichloro- | 256 | C12H7Cl3 | 037680-65-2 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',5-trichloro- | 256 | C12H7Cl3 | 037680-65-2 | 98 |
| 5 | 2,2',4-Trichloro-1,1'-biphenyl | 256 | C12H7Cl3 | 037680-66-3 | 97 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

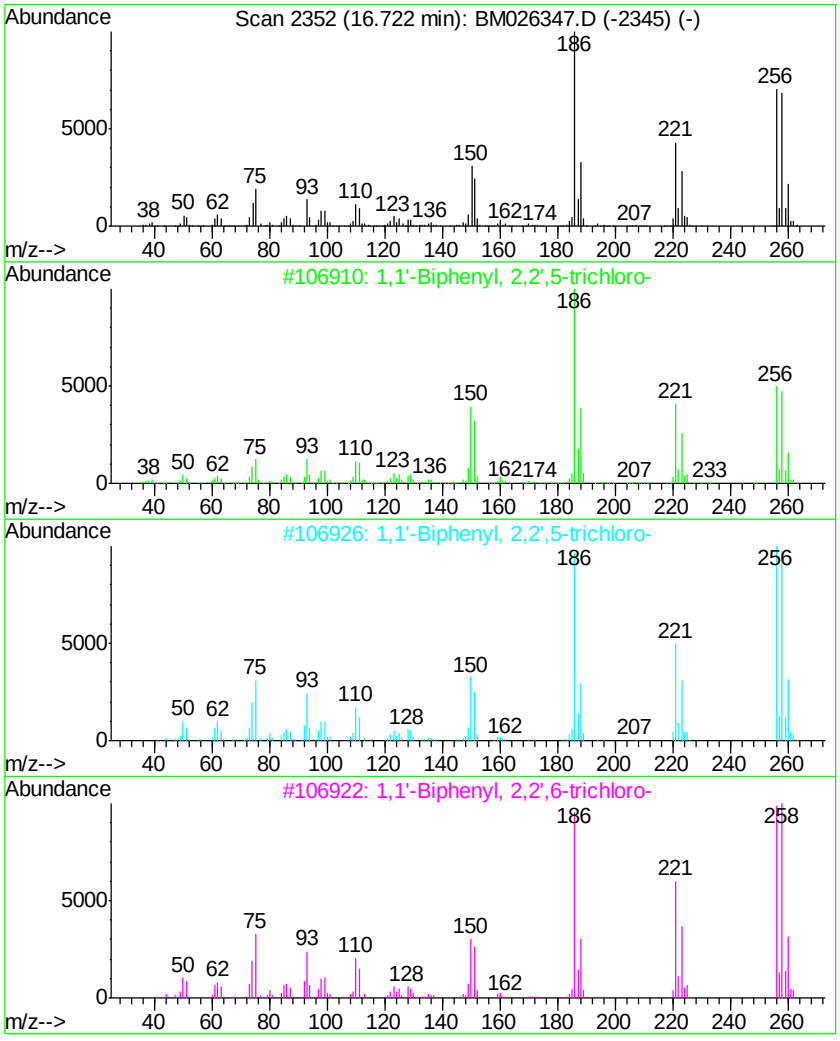
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

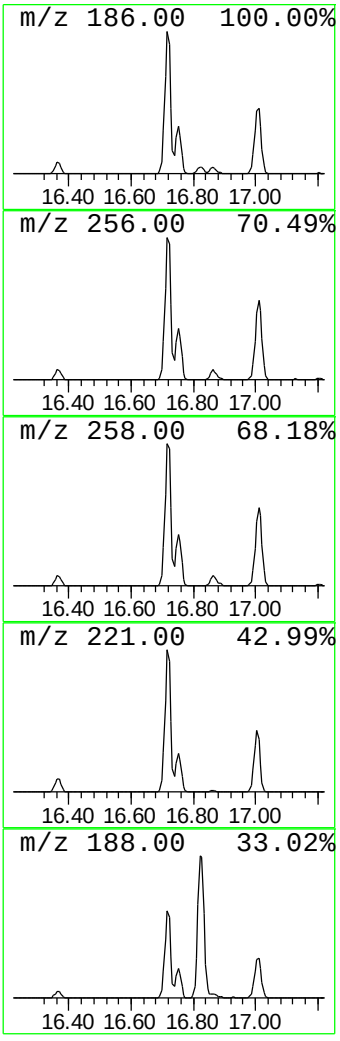
**********

Peak Number 6 1,1'-Biphenyl, 2,2',6-trich... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.72 | 67.88 ng/ul | 6627970 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',5-trichloro- | 256 | C12H7Cl3 | 037680-65-2 | 99 |
| 2 | 1,1'-Biphenyl, 2,2',5-trichloro- | 256 | C12H7Cl3 | 037680-65-2 | 99 |
| 3 | 1,1'-Biphenyl, 2,2',6-trichloro- | 256 | C12H7Cl3 | 038444-73-4 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',5-trichloro- | 256 | C12H7Cl3 | 037680-65-2 | 99 |
| 5 | 2,2',3-Trichloro-1,1'-biphenyl | 256 | C12H7Cl3 | 038444-78-9 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

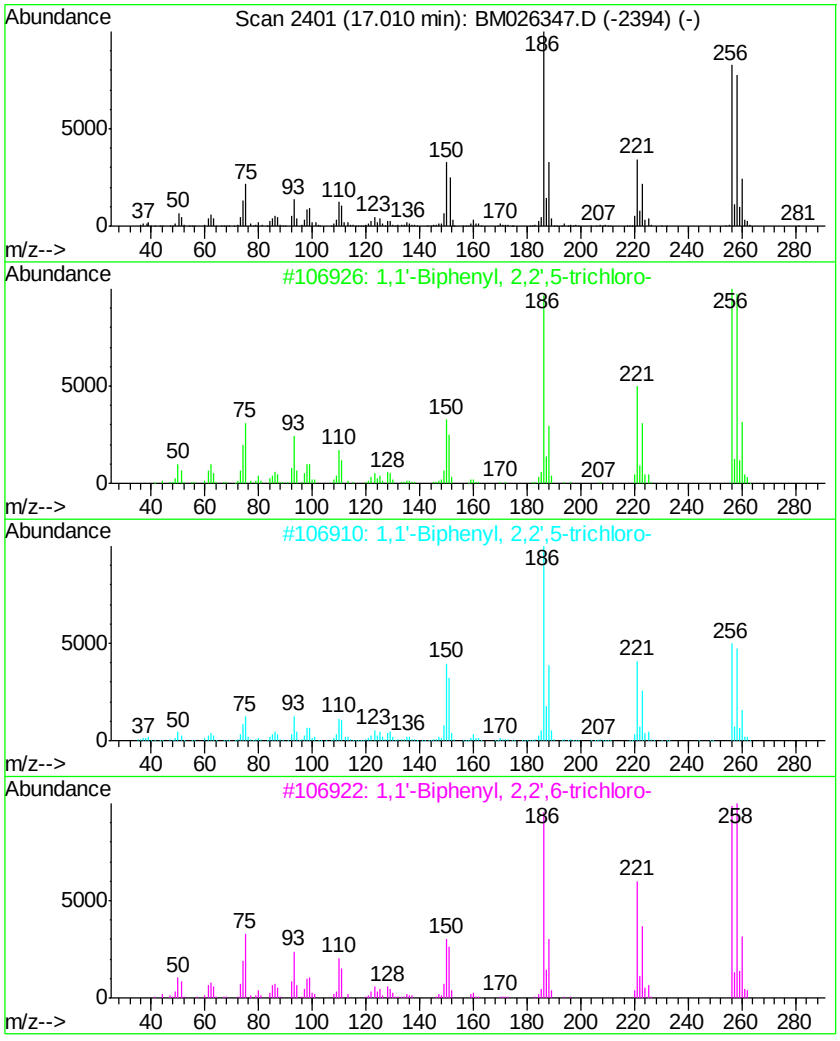
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

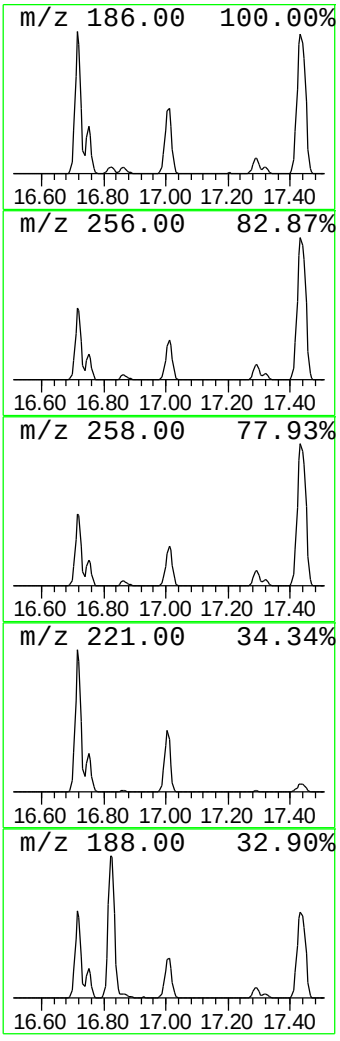
**********

Peak Number 8 2,2',4-Trichloro-1,1'-biphenyl Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.01 | 36.85 ng/ul | 3598700 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',5-trichloro- | 256 | C12H7Cl3 | 037680-65-2 | 99 |
| 2 | 1,1'-Biphenyl, 2,2',5-trichloro- | 256 | C12H7Cl3 | 037680-65-2 | 99 |
| 3 | 1,1'-Biphenyl, 2,2',6-trichloro- | 256 | C12H7Cl3 | 038444-73-4 | 99 |
| 4 | 2,2',4-Trichloro-1,1'-biphenyl | 256 | C12H7Cl3 | 037680-66-3 | 99 |
| 5 | 1,1'-Biphenyl, 2,4,5-trichloro- | 256 | C12H7Cl3 | 015862-07-4 | 98 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

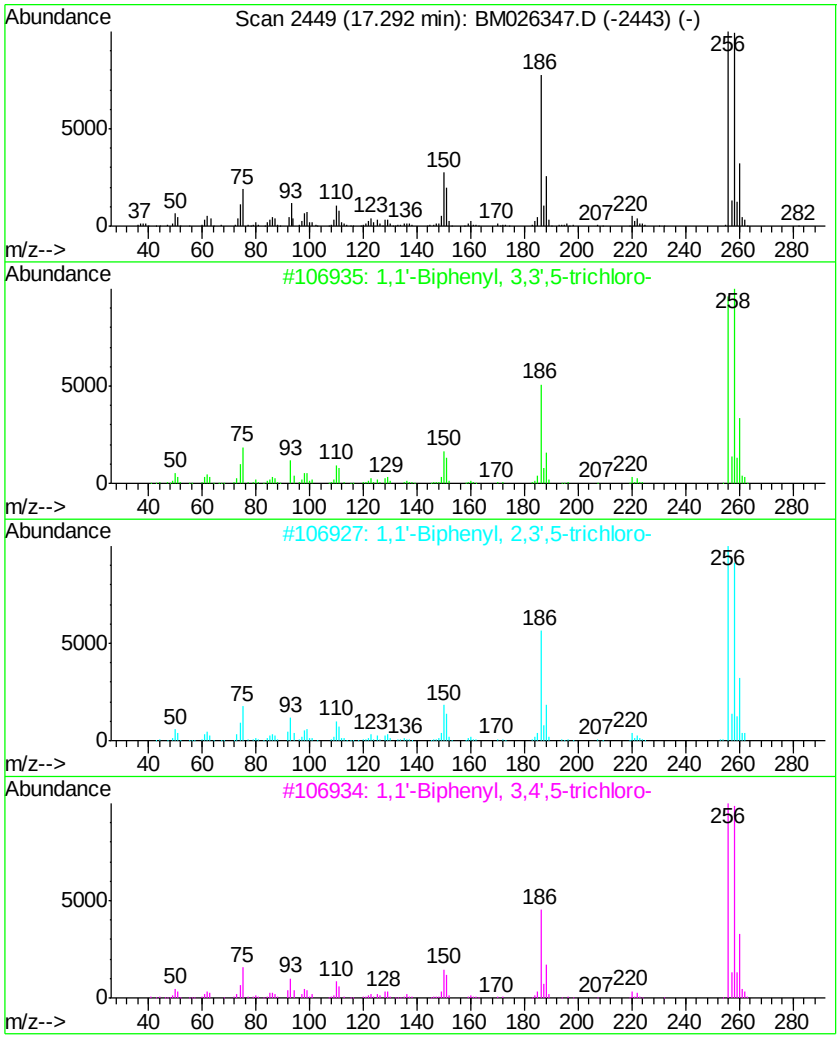
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

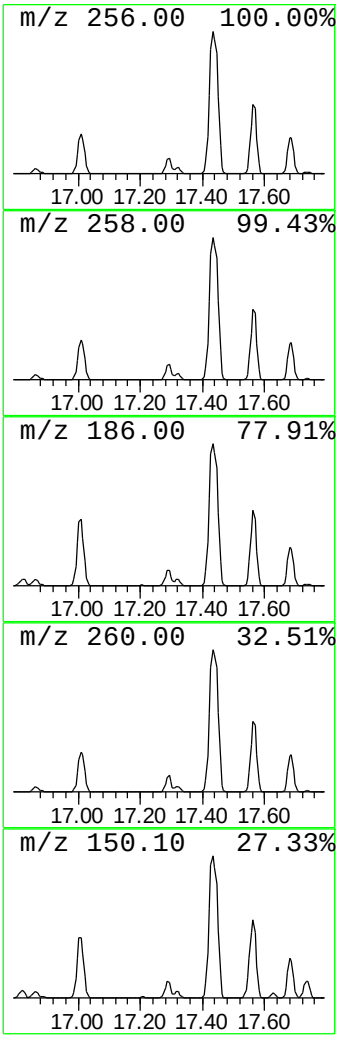
**********

Peak Number 9 1,1'-Biphenyl, 3,4',5-trich... Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.29 | 9.39 ng/ul | 916589 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 3,3',5-trichloro- | 256 | C12H7Cl3 | 038444-87-0 | 99 |
| 2 | 1,1'-Biphenyl, 2,3',5-trichloro- | 256 | C12H7Cl3 | 038444-81-4 | 99 |
| 3 | 1,1'-Biphenyl, 3,4',5-trichloro- | 256 | C12H7Cl3 | 038444-88-1 | 99 |
| 4 | 1,1'-Biphenyl, 2,4',5-trichloro- | 256 | C12H7Cl3 | 016606-02-3 | 99 |
| 5 | 1,1'-Biphenyl, 2',3,4-trichloro- | 256 | C12H7Cl3 | 038444-86-9 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

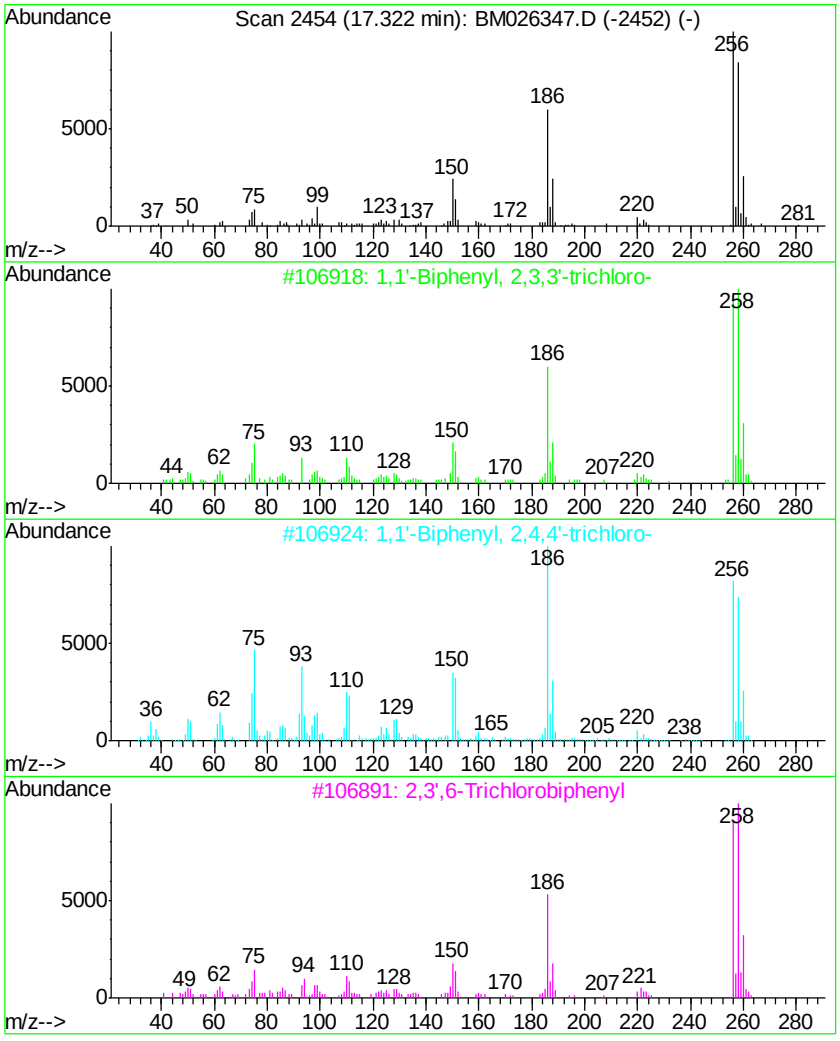
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

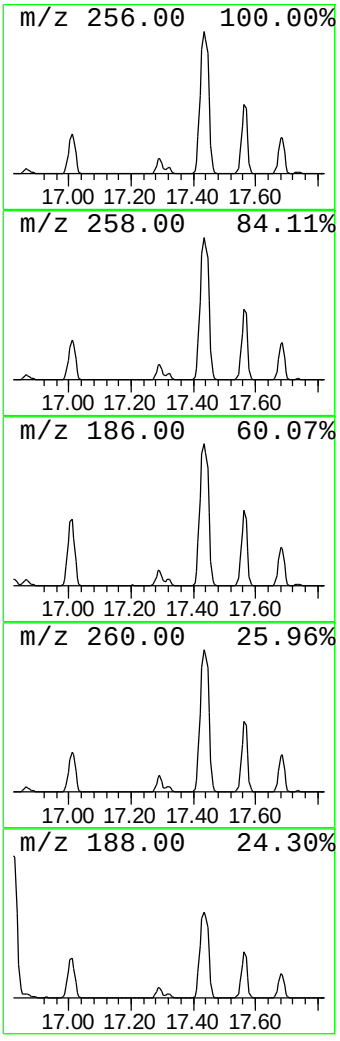
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 10 1,1'-Biphenyl, 2,3,3'-trich... Concentration Rank 44

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.32 | 2.50 ng/ul | 244359 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,3,3'-trichloro- | 256 | C12H7Cl3 | 038444-84-7 | 94 |
| 2 | 1,1'-Biphenyl, 2,4,4'-trichloro- | 256 | C12H7Cl3 | 007012-37-5 | 94 |
| 3 | 2,3',6-Trichlorobiphenyl | 256 | C12H7Cl3 | 038444-76-7 | 94 |
| 4 | 3,3',4-Trichloro-1,1'-biphenyl | 256 | C12H7Cl3 | 037680-69-6 | 94 |
| 5 | 2,4',6-Trichloro-1,1'-biphenyl | 256 | C12H7Cl3 | 038444-77-8 | 94 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

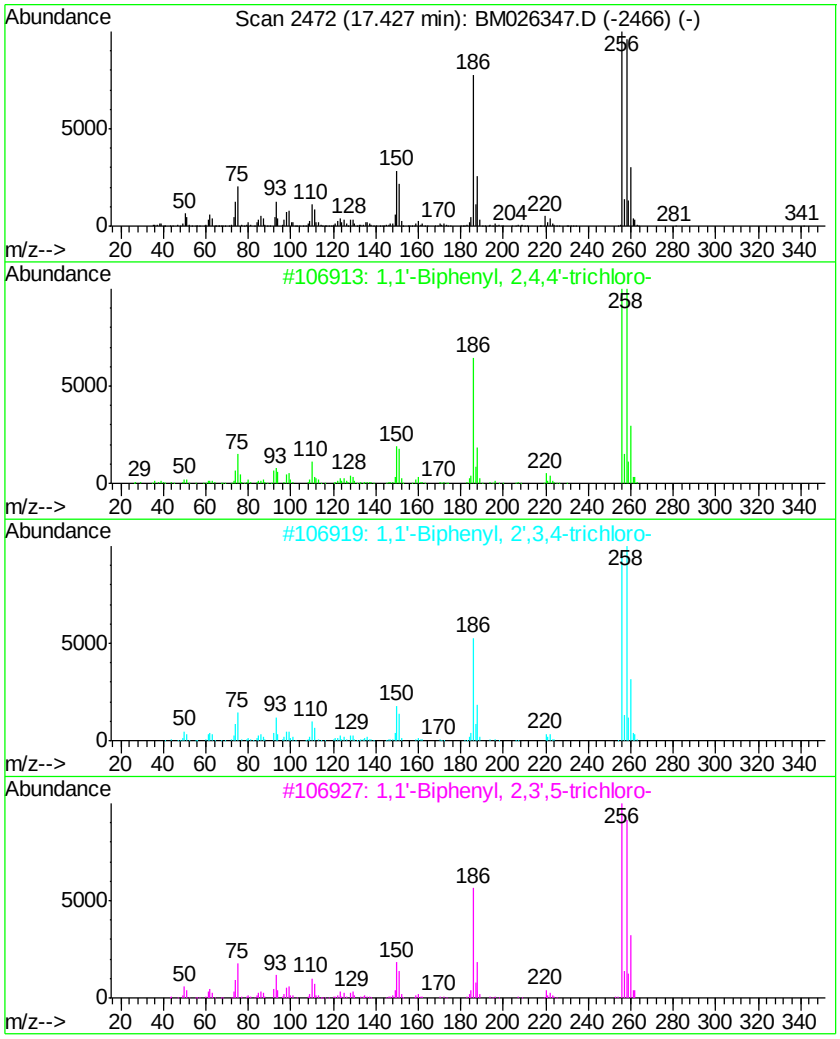
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

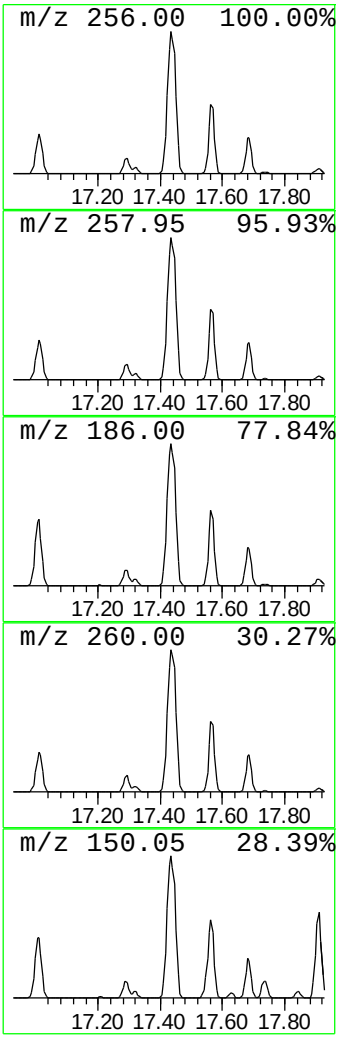
**********

Peak Number 11 1,1'-Biphenyl, 2,4,4'-trich... Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.43 | 115.73 ng/ul | 11300300 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,4,4'-trichloro- | 256 | C12H7Cl3 | 007012-37-5 | 99 |
| 2 | 1,1'-Biphenyl, 2',3,4-trichloro- | 256 | C12H7Cl3 | 038444-86-9 | 99 |
| 3 | 1,1'-Biphenyl, 2,3',5-trichloro- | 256 | C12H7Cl3 | 038444-81-4 | 99 |
| 4 | 1,1'-Biphenyl, 3,4',5-trichloro- | 256 | C12H7Cl3 | 038444-88-1 | 99 |
| 5 | 1,1'-Biphenyl, 2,4',5-trichloro- | 256 | C12H7Cl3 | 016606-02-3 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

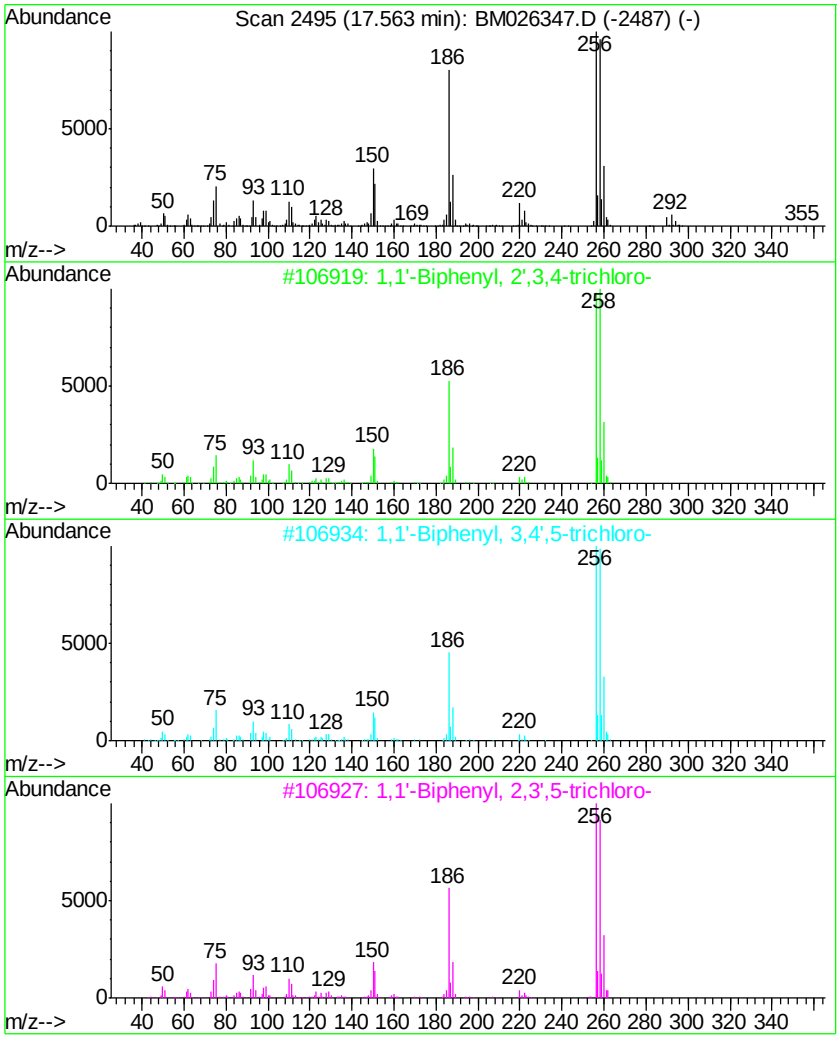
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

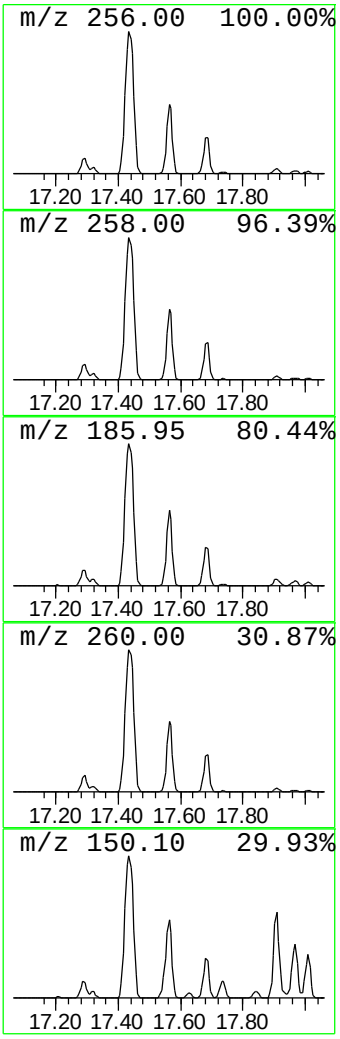
**********

Peak Number 12 1,1'-Biphenyl, 3,3',5-trich... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.56 | 49.74 ng/ul | 4857360 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2',3,4-trichloro- | 256 | C12H7Cl3 | 038444-86-9 | 99 |
| 2 | 1,1'-Biphenyl, 3,4',5-trichloro- | 256 | C12H7Cl3 | 038444-88-1 | 99 |
| 3 | 1,1'-Biphenyl, 2,3',5-trichloro- | 256 | C12H7Cl3 | 038444-81-4 | 99 |
| 4 | 1,1'-Biphenyl, 3,3',5-trichloro- | 256 | C12H7Cl3 | 038444-87-0 | 99 |
| 5 | 1,1'-Biphenyl, 2,3,6-trichloro- | 256 | C12H7Cl3 | 055702-45-9 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

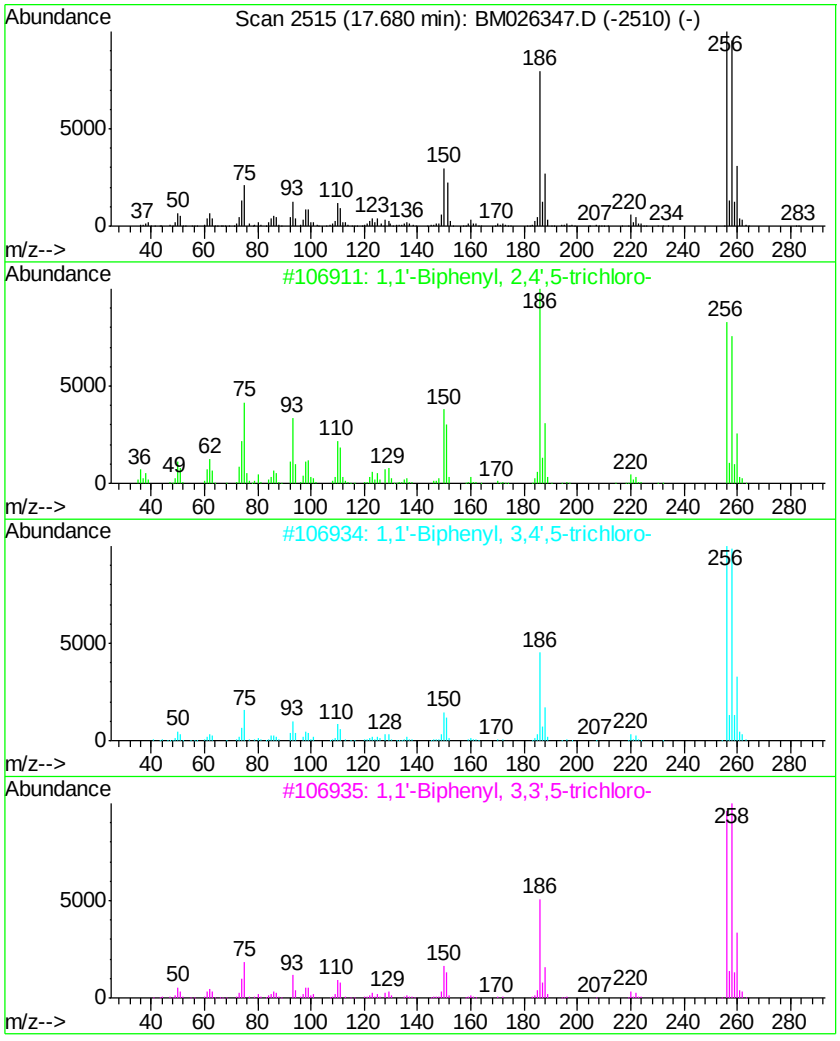
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

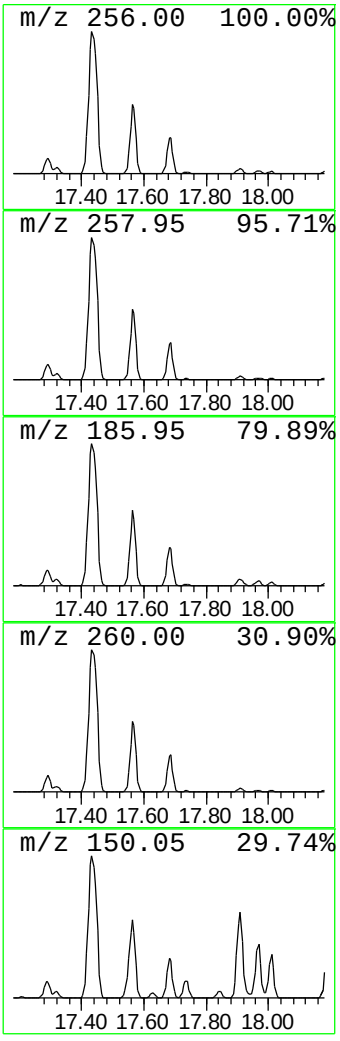
**********

Peak Number 14 1,1'-Biphenyl, 2,4',5-trich... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.68 | 21.40 ng/ul | 2089450 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,4',5-trichloro- | 256 | C12H7Cl3 | 016606-02-3 | 99 |
| 2 | 1,1'-Biphenyl, 3,4',5-trichloro- | 256 | C12H7Cl3 | 038444-88-1 | 99 |
| 3 | 1,1'-Biphenyl, 3,3',5-trichloro- | 256 | C12H7Cl3 | 038444-87-0 | 99 |
| 4 | 1,1'-Biphenyl, 2',3,4-trichloro- | 256 | C12H7Cl3 | 038444-86-9 | 99 |
| 5 | 1,1'-Biphenyl, 2,3',5-trichloro- | 256 | C12H7Cl3 | 038444-81-4 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

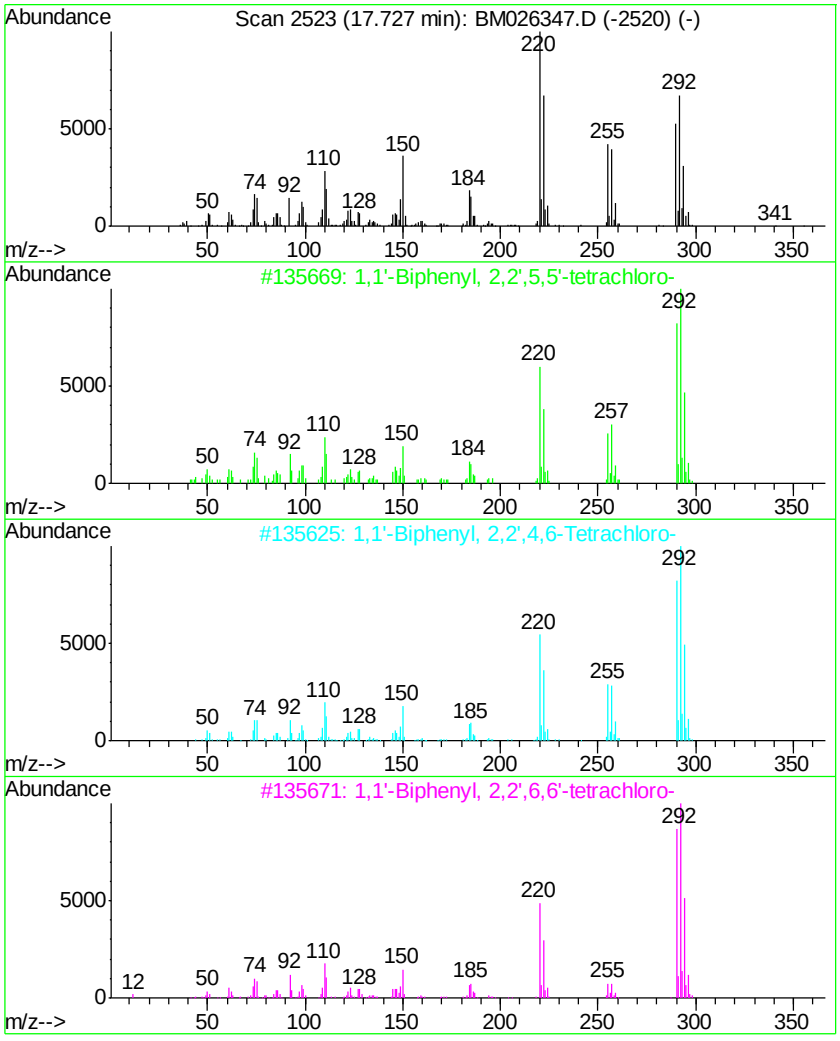
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

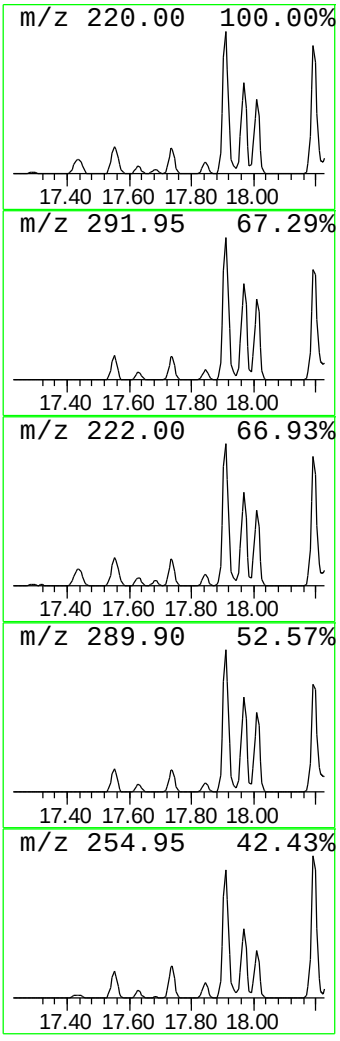
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 15 1,1'-Biphenyl, 2,2',5,5'-te... Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.73 | 10.94 ng/ul | 1068090 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',5,5'-tetrach... | 290 | C12H6Cl4 | 035693-99-3 | 99 |
| 2 | 1,1'-Biphenyl, 2,2',4,6-Tetrachl... | 290 | C12H6Cl4 | 062796-65-0 | 99 |
| 3 | 1,1'-Biphenyl, 2,2',6,6'-tetrach... | 290 | C12H6Cl4 | 015968-05-5 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',5,6'-Tetrach... | 290 | C12H6Cl4 | 041464-41-9 | 99 |
| 5 | 1,1'-Biphenyl, 2,2',4,4'-tetrach... | 290 | C12H6Cl4 | 002437-79-8 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

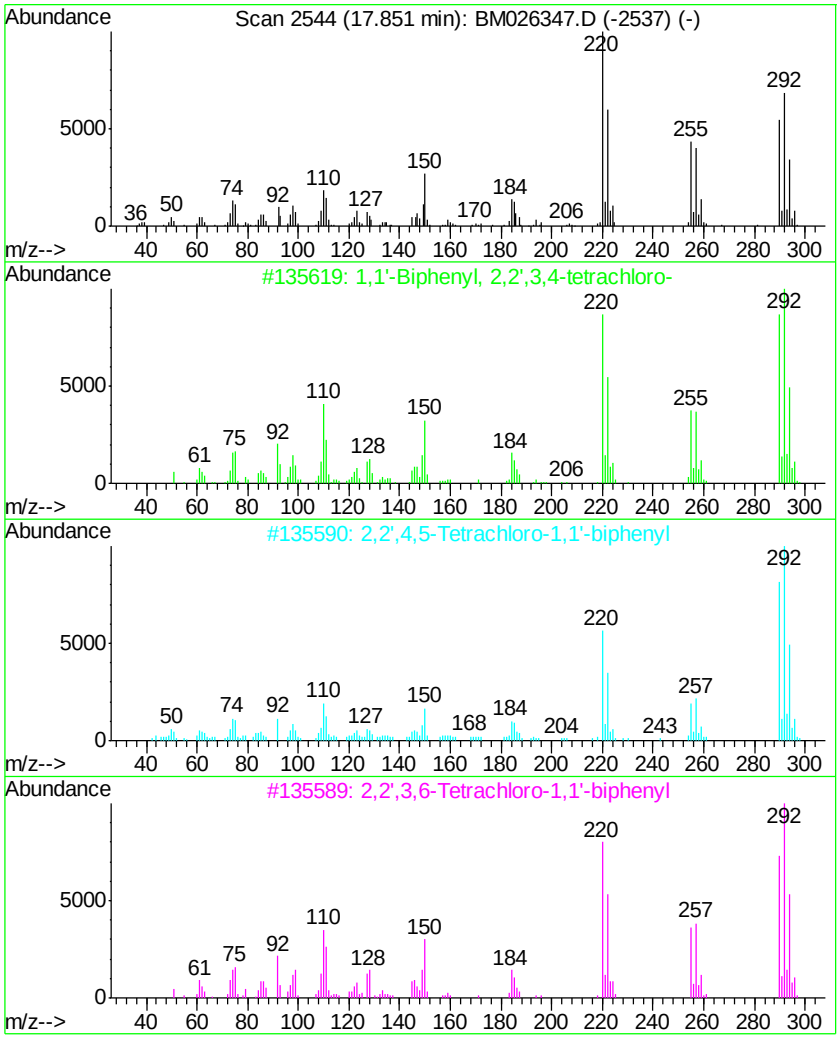
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

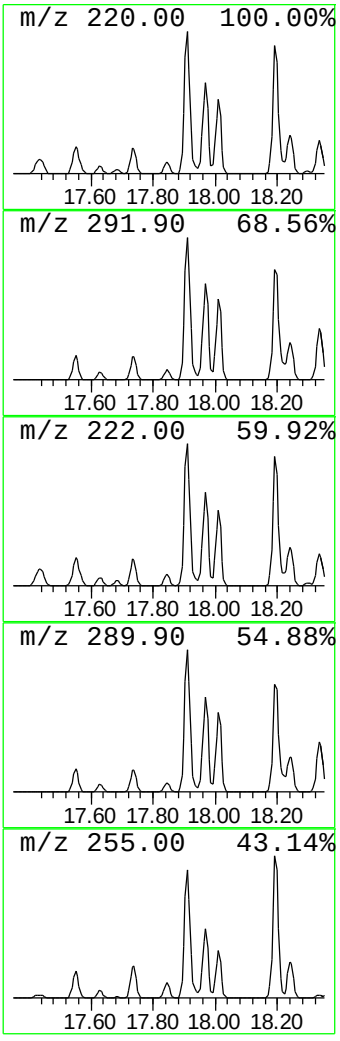
**********

Peak Number 16 1,1'-Biphenyl, 2,2',3,4-tet... Concentration Rank 38

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.85 | 4.56 ng/ul | 444826 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',3,4-tetrachl... | 290 | C12H6Cl4 | 052663-59-9 | 99 |
| 2 | 2,2',4,5-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 070362-47-9 | 99 |
| 3 | 2,2',3,6-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 070362-45-7 | 99 |
| 4 | 2,2',4,5-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 070362-47-9 | 99 |
| 5 | 1,1'-Biphenyl, 2,2',3,6'-tetrach... | 290 | C12H6Cl4 | 041464-47-5 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

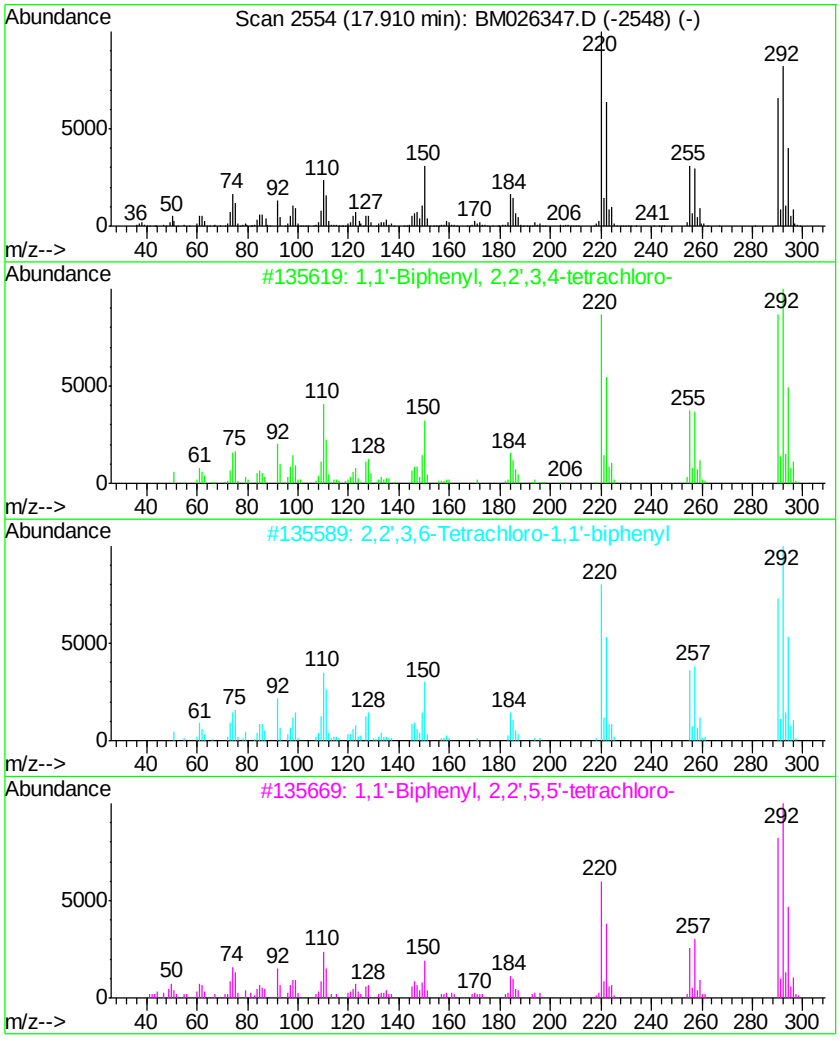
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

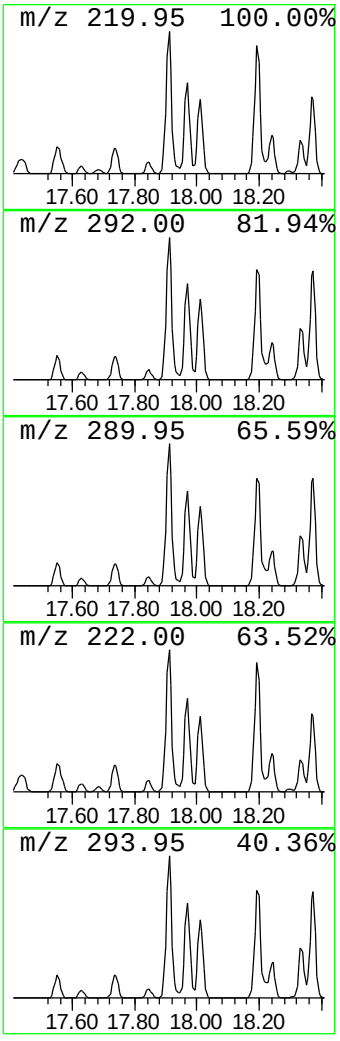
**********

Peak Number 17 2,2',3,6-Tetrachloro-1,1'-b... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.91 | 56.73 ng/ul | 5539150 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',3,4-tetrachl... | 290 | C12H6Cl4 | 052663-59-9 | 99 |
| 2 | 2,2',3,6-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 070362-45-7 | 99 |
| 3 | 1,1'-Biphenyl, 2,2',5,5'-tetrach... | 290 | C12H6Cl4 | 035693-99-3 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',4,4'-tetrach... | 290 | C12H6Cl4 | 002437-79-8 | 99 |
| 5 | 1,1'-Biphenyl, 2,2',6,6'-tetrach... | 290 | C12H6Cl4 | 015968-05-5 | 99 |



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Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

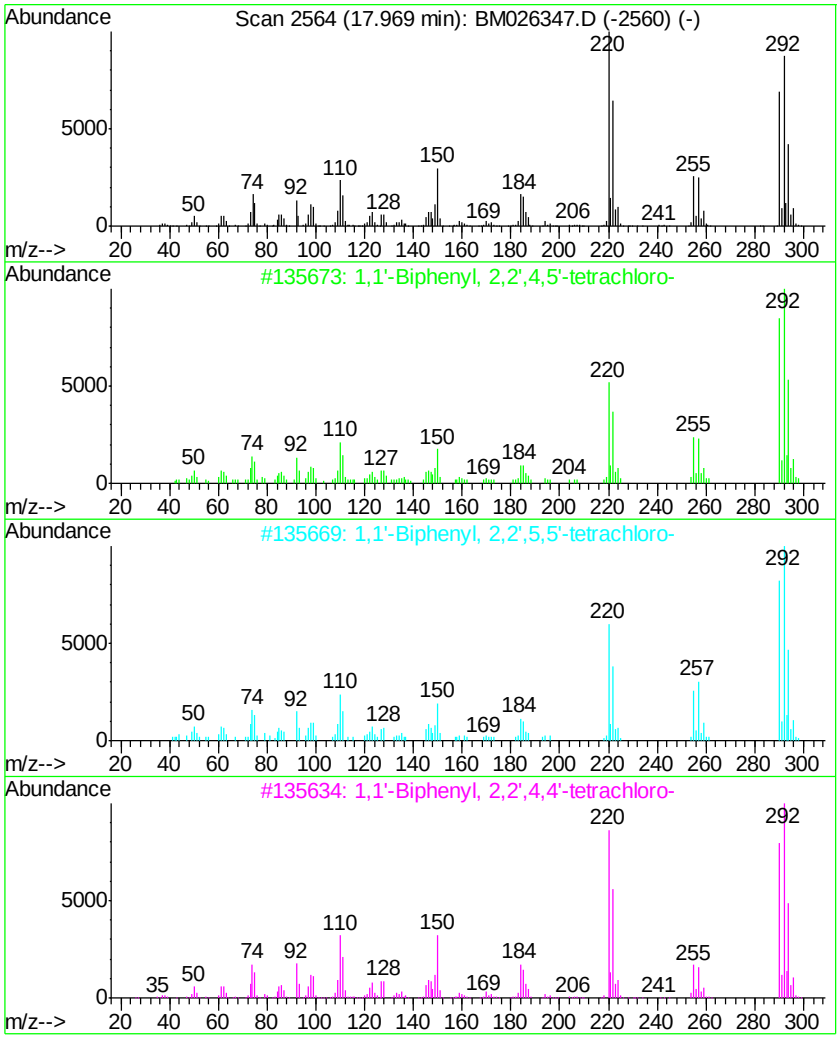
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

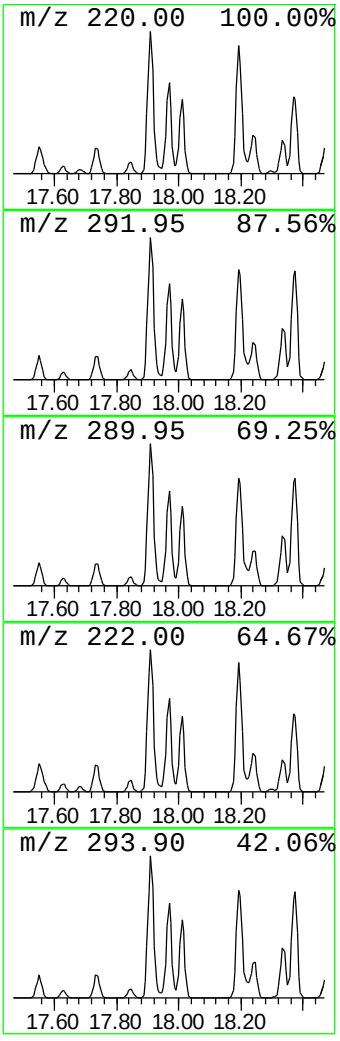
**********

Peak Number 18 1,1'-Biphenyl, 2,2',4,5'-te... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.97 | 34.37 ng/ul | 3356560 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',4,5'-tetrach... | 290 | C12H6Cl4 | 041464-40-8 | 99 |
| 2 | 1,1'-Biphenyl, 2,2',5,5'-tetrach... | 290 | C12H6Cl4 | 035693-99-3 | 99 |
| 3 | 1,1'-Biphenyl, 2,2',4,4'-tetrach... | 290 | C12H6Cl4 | 002437-79-8 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',6,6'-tetrach... | 290 | C12H6Cl4 | 015968-05-5 | 99 |
| 5 | 2,2',4,5-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 070362-47-9 | 99 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

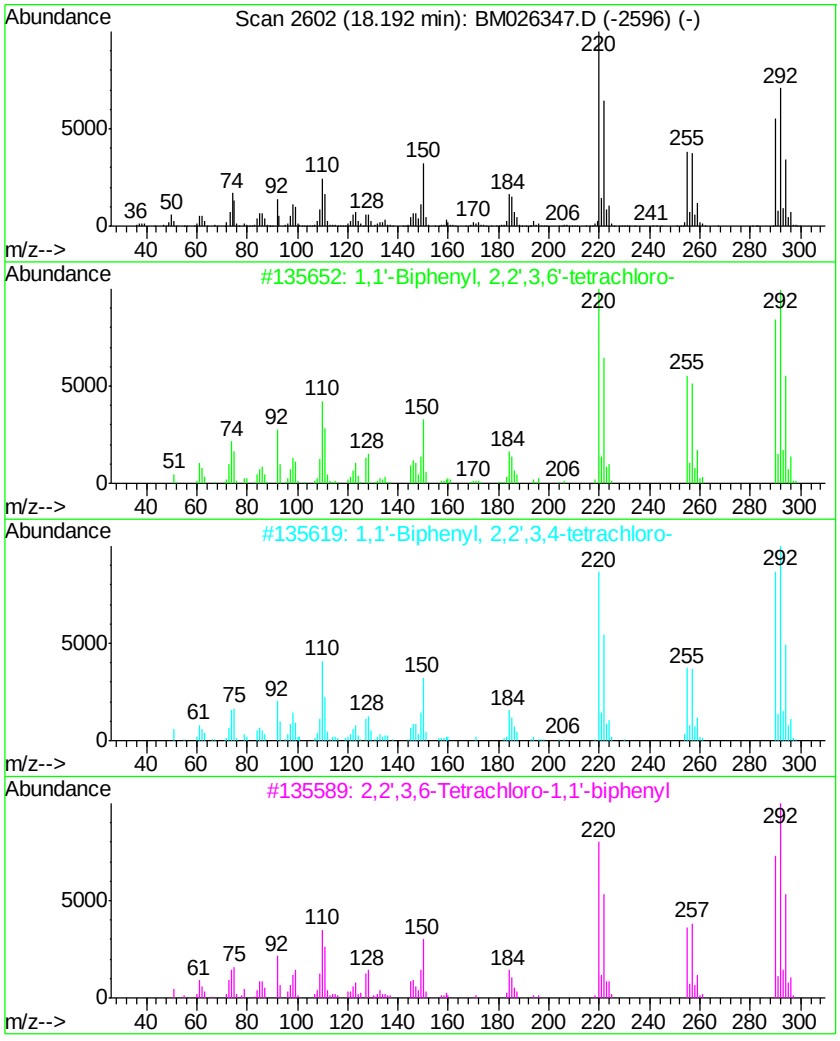
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

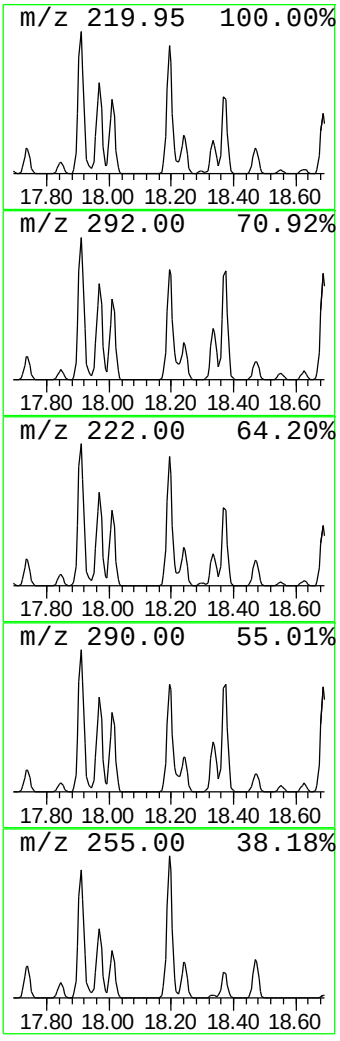
**********

Peak Number 20 1,1'-Biphenyl, 2,2',3,6'-te... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.19 | 52.47 ng/ul | 5123600 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',3,6'-tetrach... | 290 | C12H6Cl4 | 041464-47-5 | 99 |
| 2 | 1,1'-Biphenyl, 2,2',3,4-tetrachl... | 290 | C12H6Cl4 | 052663-59-9 | 99 |
| 3 | 2,2',3,6-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 070362-45-7 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',4,4'-tetrach... | 290 | C12H6Cl4 | 002437-79-8 | 99 |
| 5 | 1,1'-Biphenyl, 2,2',4,6-Tetrachl... | 290 | C12H6Cl4 | 062796-65-0 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

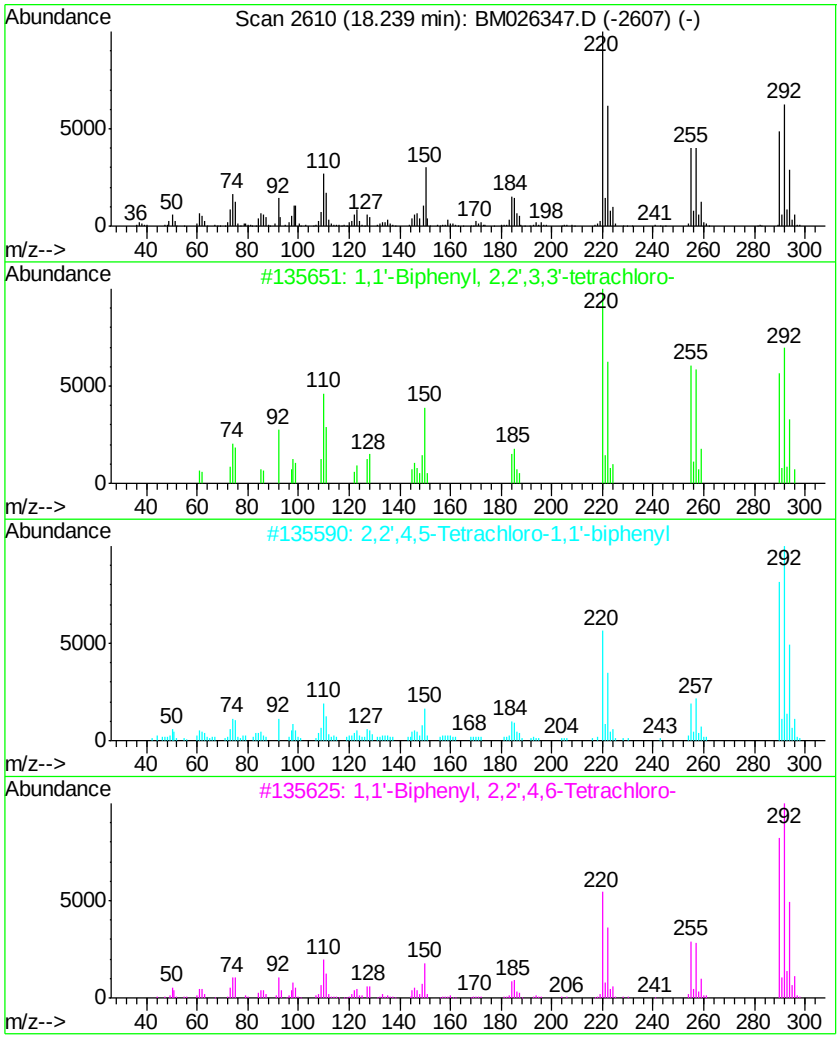
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

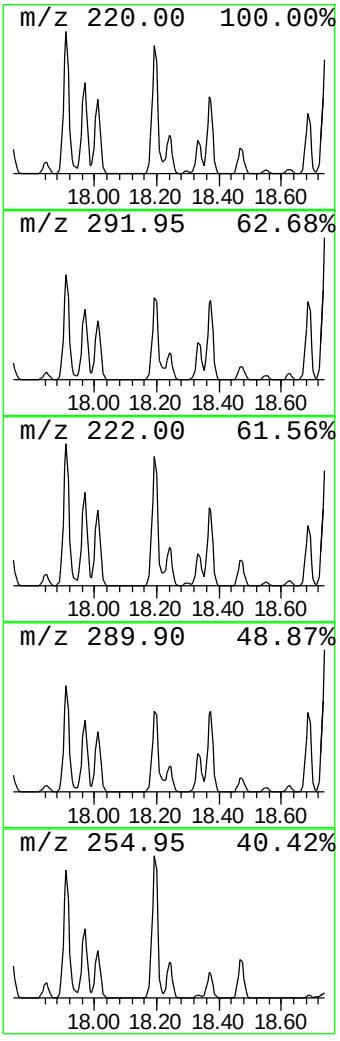
**********

Peak Number 21 1,1'-Biphenyl, 2,2',3,3'-te... Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.24 | 15.51 ng/ul | 1514840 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',3,3'-tetrach... | 290 | C12H6Cl4 | 038444-93-8 | 99 |
| 2 | 2,2',4,5-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 070362-47-9 | 99 |
| 3 | 1,1'-Biphenyl, 2,2',4,6-Tetrachl... | 290 | C12H6Cl4 | 062796-65-0 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',3,5'-tetrach... | 290 | C12H6Cl4 | 041464-39-5 | 99 |
| 5 | 2,2',4,5-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 070362-47-9 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

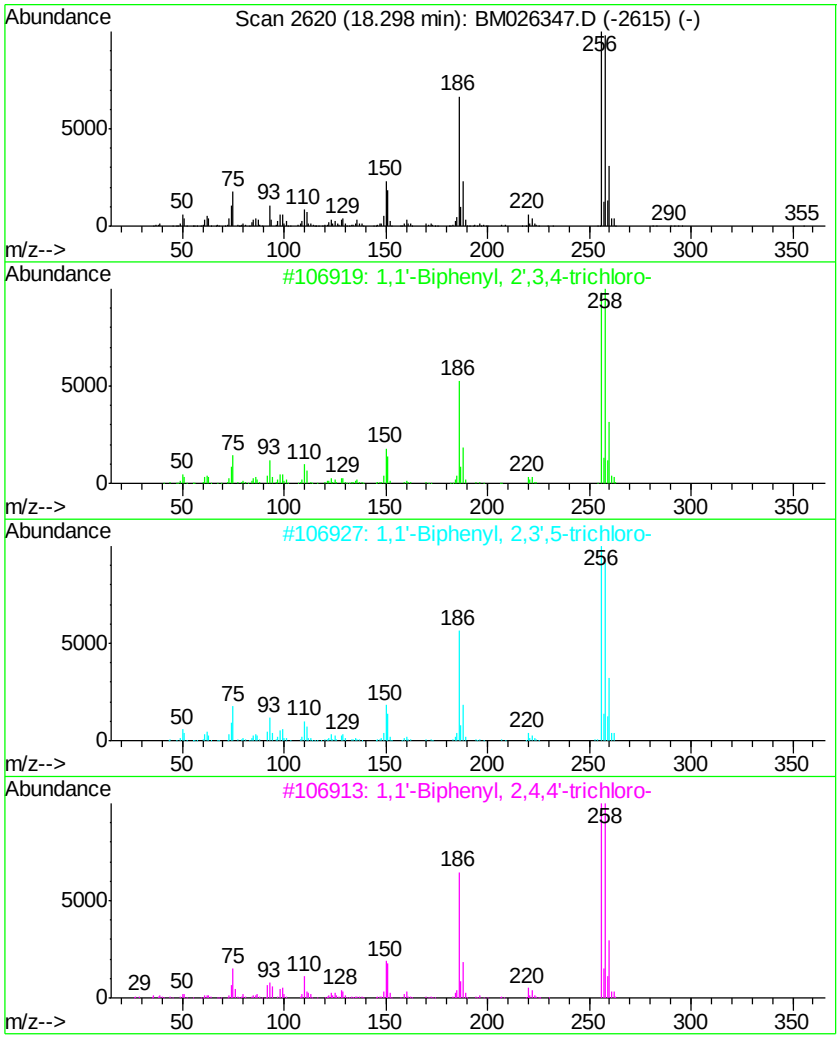
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

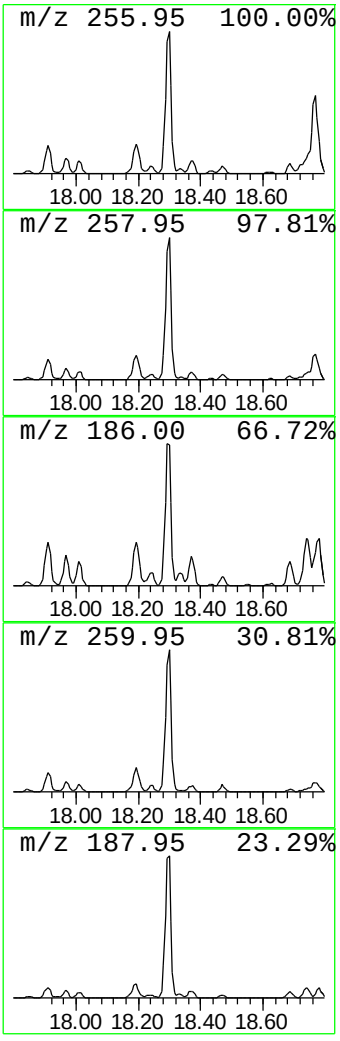
**********

Peak Number 22 1,1'-Biphenyl, 2',3,4-trich... Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.30 | 13.47 ng/ul | 1315450 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2',3,4-trichloro- | 256 | C12H7Cl3 | 038444-86-9 | 99 |
| 2 | 1,1'-Biphenyl, 2,3',5-trichloro- | 256 | C12H7Cl3 | 038444-81-4 | 99 |
| 3 | 1,1'-Biphenyl, 2,4,4'-trichloro- | 256 | C12H7Cl3 | 007012-37-5 | 99 |
| 4 | 1,1'-Biphenyl, 3,4',5-trichloro- | 256 | C12H7Cl3 | 038444-88-1 | 99 |
| 5 | 1,1'-Biphenyl, 3,3',5-trichloro- | 256 | C12H7Cl3 | 038444-87-0 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

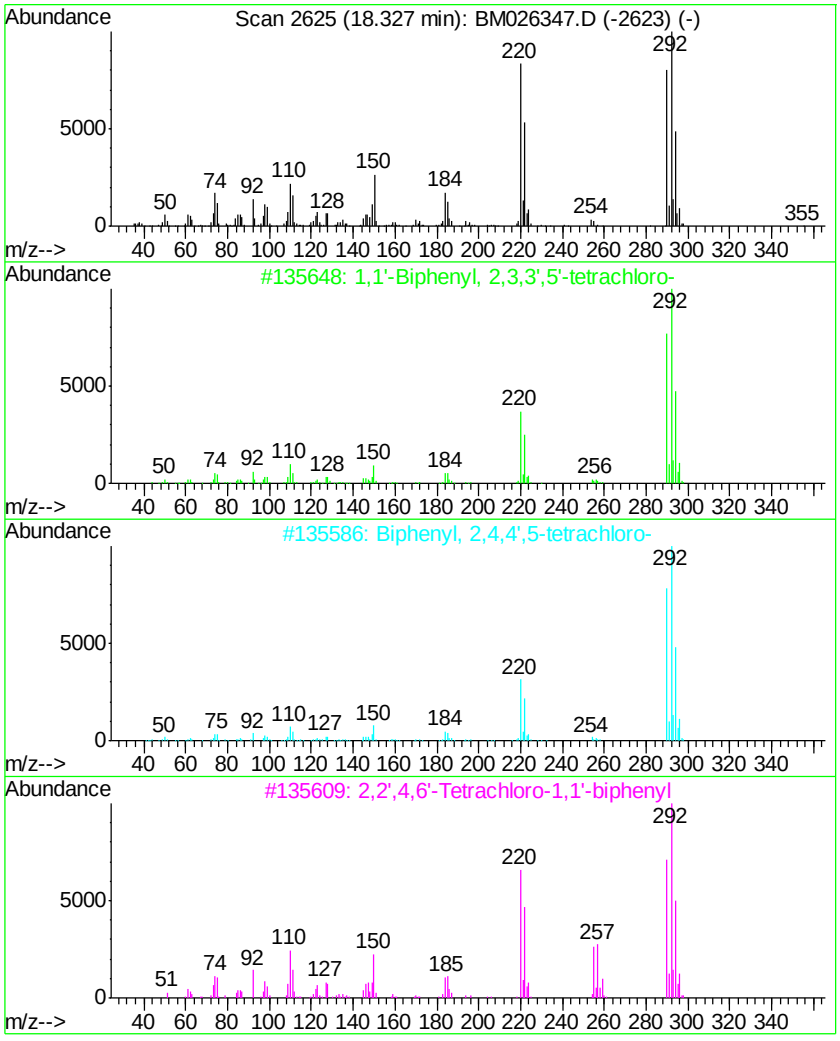
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

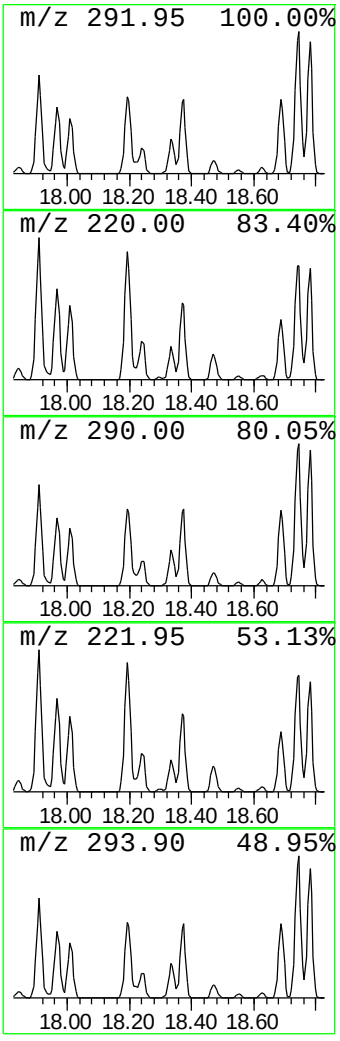
**********

Peak Number 23 1,1'-Biphenyl, 2,3,3',5'-te... Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.33 | 14.45 ng/ul | 1411050 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,3,3',5'-tetrach... | 290 | C12H6Cl4 | 041464-49-7 | 99 |
| 2 | Biphenyl, 2,4,4',5-tetrachloro- | 290 | C12H6Cl4 | 032690-93-0 | 99 |
| 3 | 2,2',4,6'-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 068194-04-7 | 99 |
| 4 | 1,1'-Biphenyl, 3,3',5,5'-tetrach... | 290 | C12H6Cl4 | 033284-52-5 | 99 |
| 5 | 1,1'-Biphenyl, 2,2',5,6'-Tetrach... | 290 | C12H6Cl4 | 041464-41-9 | 99 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

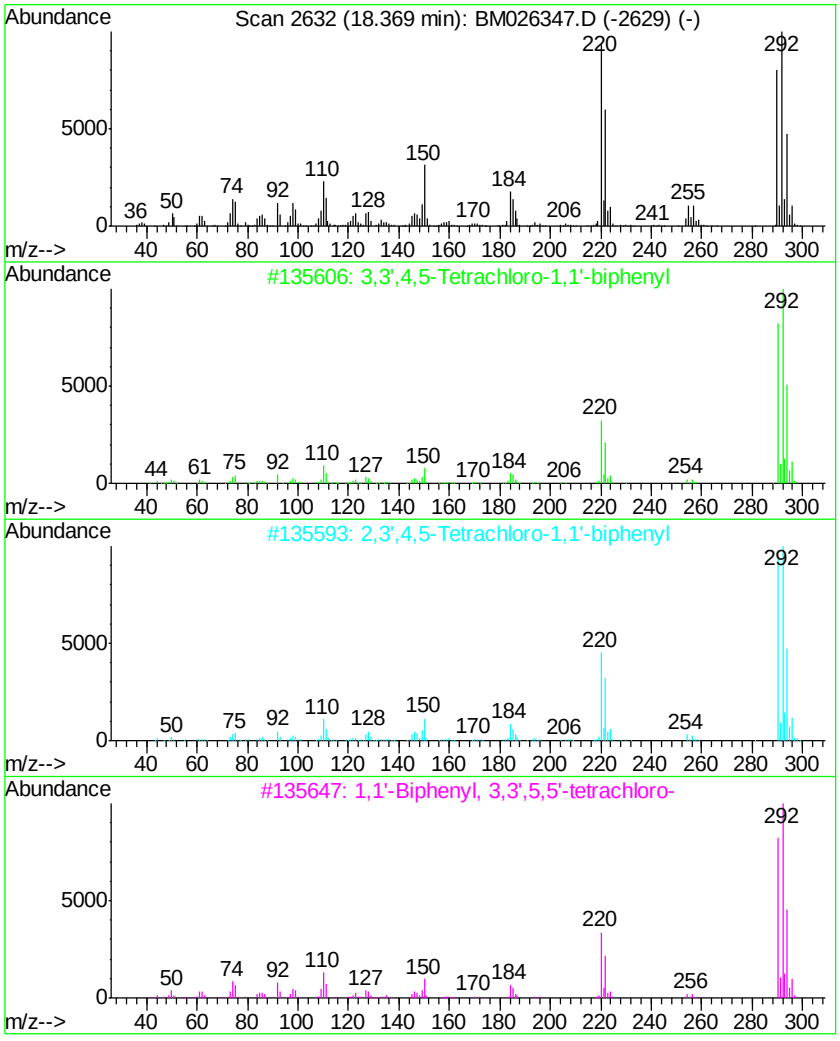
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

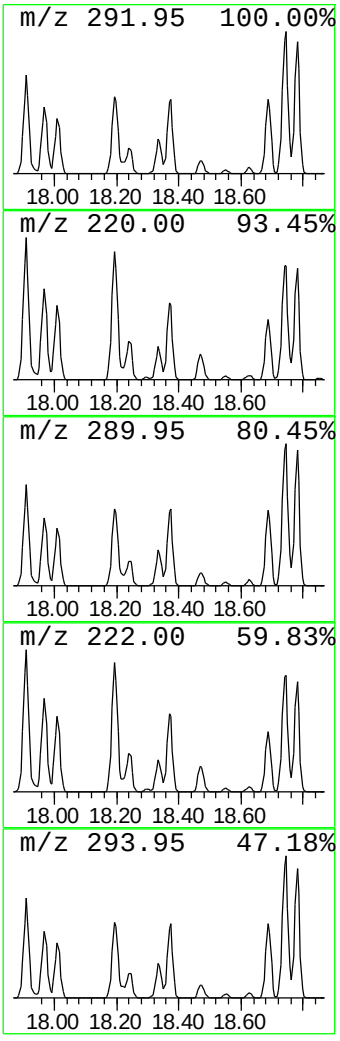
**********

Peak Number 24 3,3',4,5-Tetrachloro-1,1'-b... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.37 | 32.35 ng/ul | 3158610 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,3',4,5-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 070362-49-1 | 99 |
| 2 | 2,3',4,5-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 073575-53-8 | 99 |
| 3 | 1,1'-Biphenyl, 3,3',5,5'-tetrach... | 290 | C12H6Cl4 | 033284-52-5 | 99 |
| 4 | 2,3,3',6-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 074472-33-6 | 99 |
| 5 | 2,3',4,5'-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 073575-52-7 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

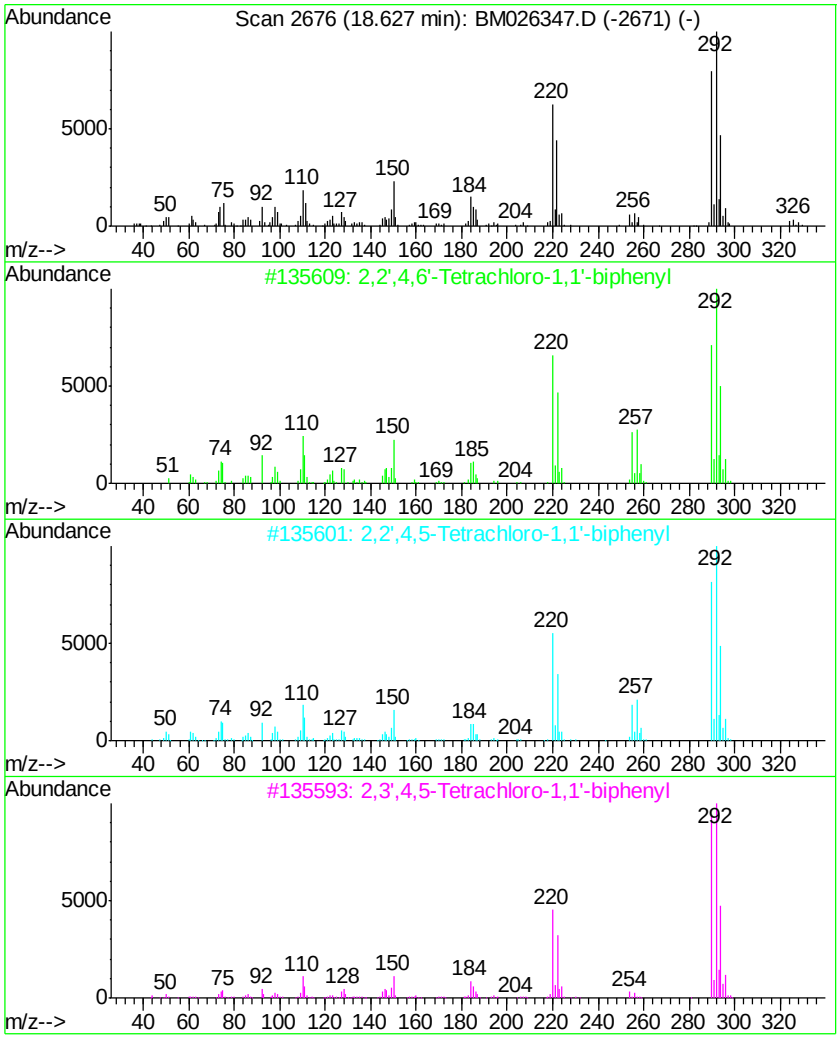
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

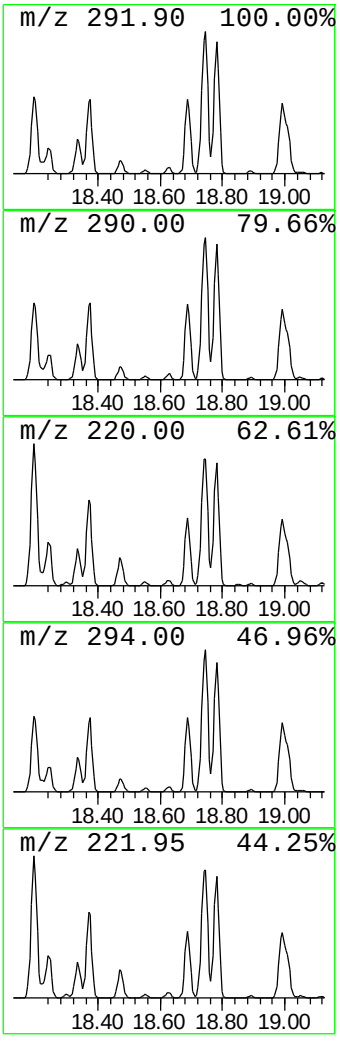
**********

Peak Number 26 2,2',4,6'-Tetrachloro-1,1'-... Concentration Rank 45

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.63 | 2.33 ng/ul | 227201 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,2',4,6'-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 068194-04-7 | 99 |
| 2 | 2,2',4,5-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 070362-47-9 | 99 |
| 3 | 2,3',4,5-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 073575-53-8 | 99 |
| 4 | 1,1'-Biphenyl, 2,2',5,5'-tetrach... | 290 | C12H6Cl4 | 035693-99-3 | 99 |
| 5 | 1,1'-Biphenyl, 2,2',4,6-Tetrachl... | 290 | C12H6Cl4 | 062796-65-0 | 99 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

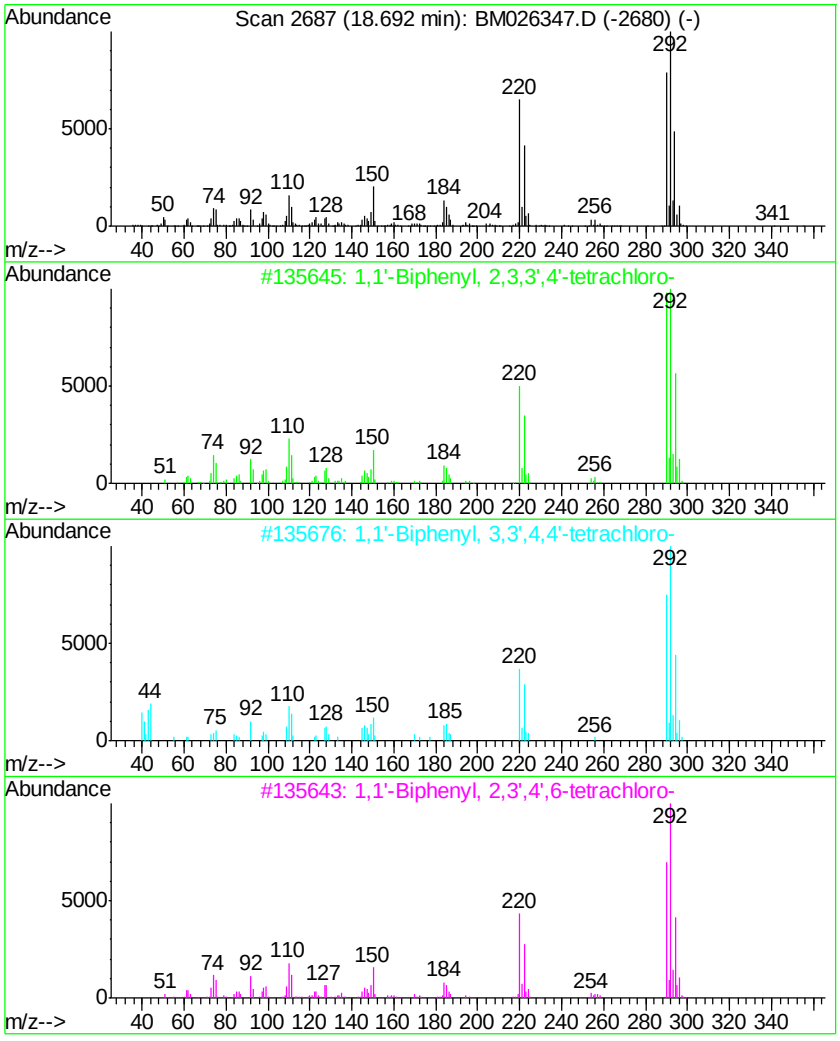
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

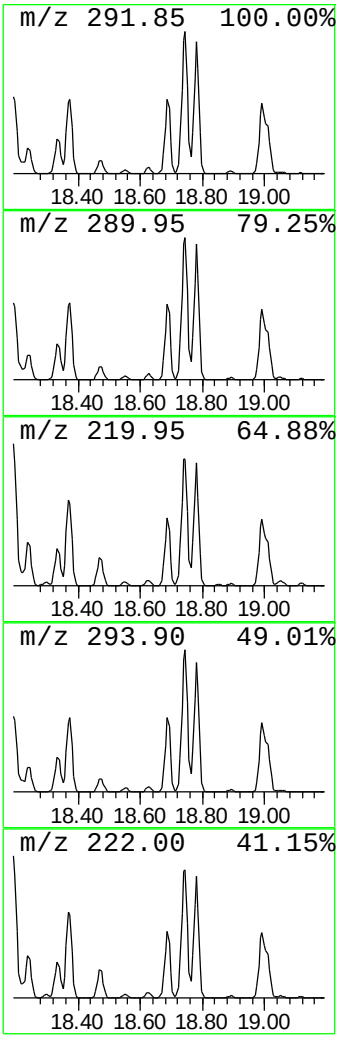
**********

Peak Number 27 1,1'-Biphenyl, 2,3,3',4'-te... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.69 | 26.89 ng/ul | 2625560 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,3,3',4'-tetrach... | 290 | C12H6Cl4 | 041464-43-1 | 99 |
| 2 | 1,1'-Biphenyl, 3,3',4,4'-tetrach... | 290 | C12H6Cl4 | 032598-13-3 | 99 |
| 3 | 1,1'-Biphenyl, 2,3',4',6-tetrach... | 290 | C12H6Cl4 | 041464-46-4 | 99 |
| 4 | 2,3',5',6-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 074338-23-1 | 99 |
| 5 | 2,3',4,5-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 073575-53-8 | 99 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

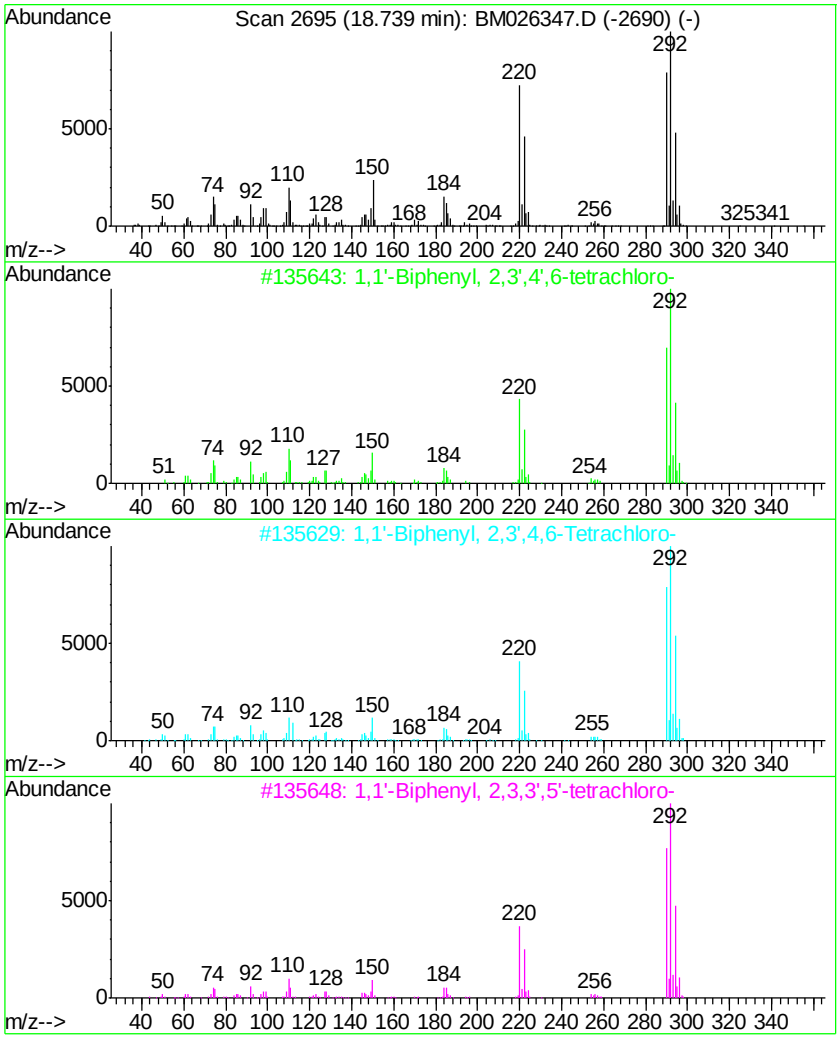
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

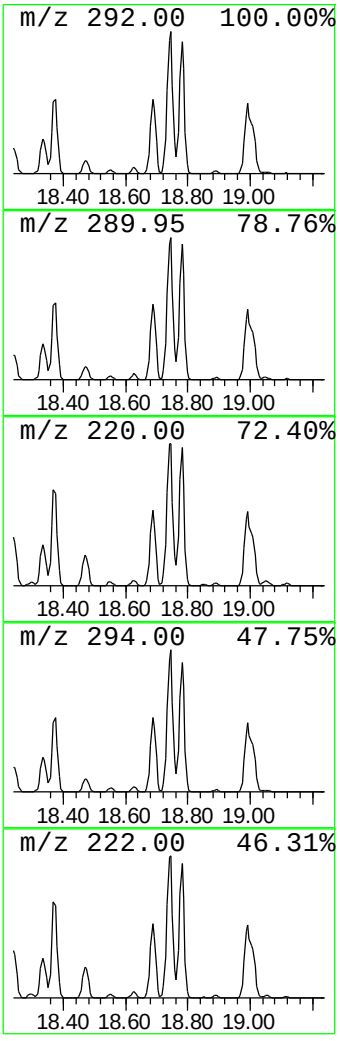
**********

Peak Number 28 1,1'-Biphenyl, 2,3',4',6-te... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.74 | 59.65 ng/ul | 5824720 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,3',4',6-tetrach... | 290 | C12H6Cl4 | 041464-46-4 | 99 |
| 2 | 1,1'-Biphenyl, 2,3',4,6-Tetrachl... | 290 | C12H6Cl4 | 060233-24-1 | 99 |
| 3 | 1,1'-Biphenyl, 2,3,3',5'-tetrach... | 290 | C12H6Cl4 | 041464-49-7 | 99 |
| 4 | 1,1'-Biphenyl, 3,3',4,5'-tetrach... | 290 | C12H6Cl4 | 041464-48-6 | 99 |
| 5 | 1,1'-Biphenyl, 3,3',4,4'-tetrach... | 290 | C12H6Cl4 | 032598-13-3 | 99 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

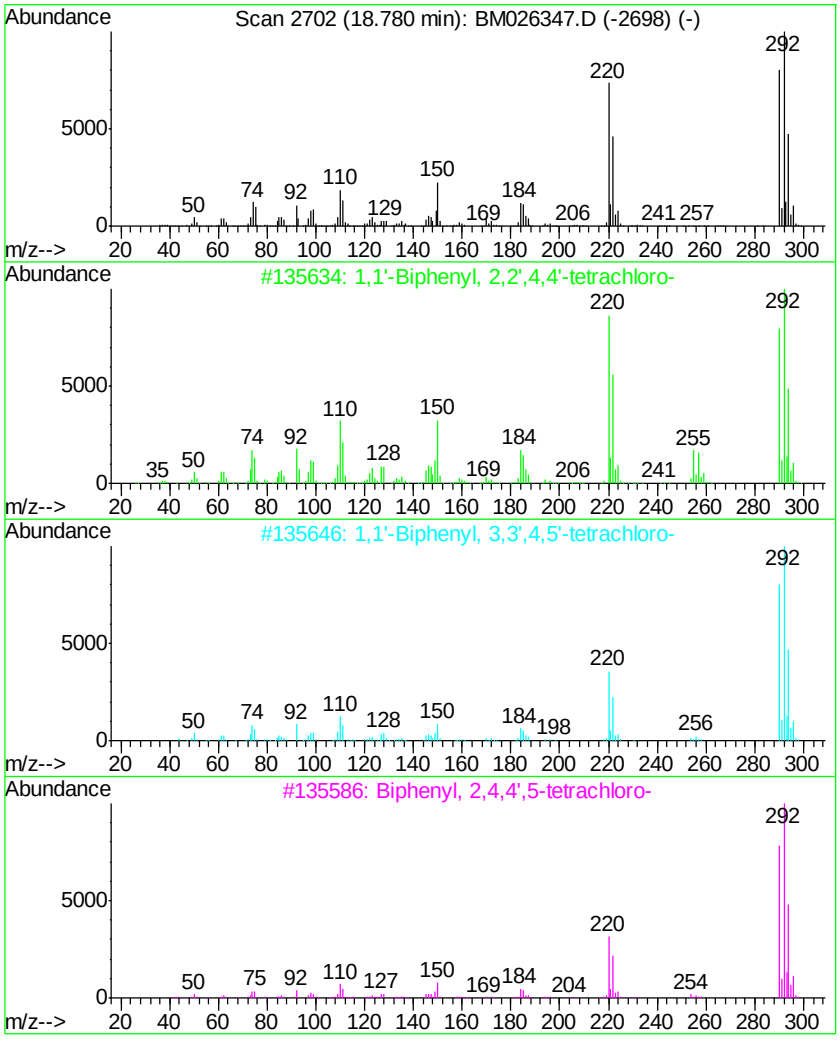
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

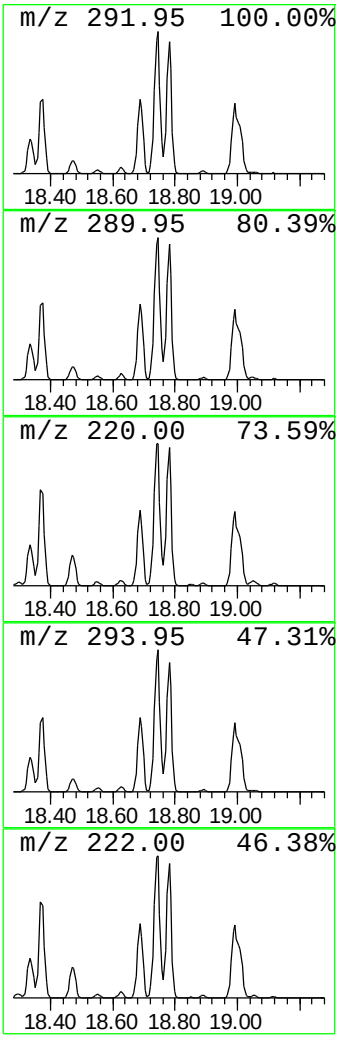
**********

Peak Number 29 1,1'-Biphenyl, 2,2',4,4'-te... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.78 | 56.39 ng/ul | 5506270 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',4,4'-tetrach... | 290 | C12H6Cl4 | 002437-79-8 | 99 |
| 2 | 1,1'-Biphenyl, 3,3',4,5'-tetrach... | 290 | C12H6Cl4 | 041464-48-6 | 99 |
| 3 | Biphenyl, 2,4,4',5-tetrachloro- | 290 | C12H6Cl4 | 032690-93-0 | 99 |
| 4 | 2,3',4,5-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 073575-53-8 | 99 |
| 5 | 2,2',4,5-Tetrachloro-1,1'-biphenyl | 290 | C12H6Cl4 | 070362-47-9 | 99 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

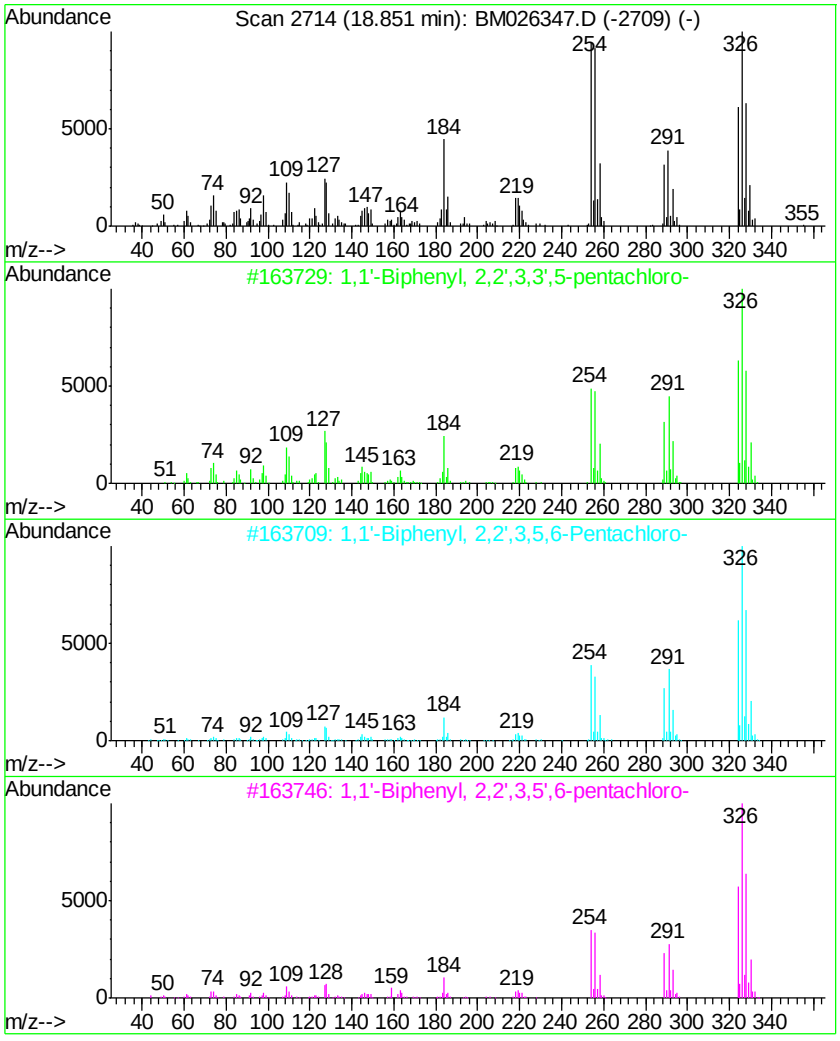
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA CALIBRATION

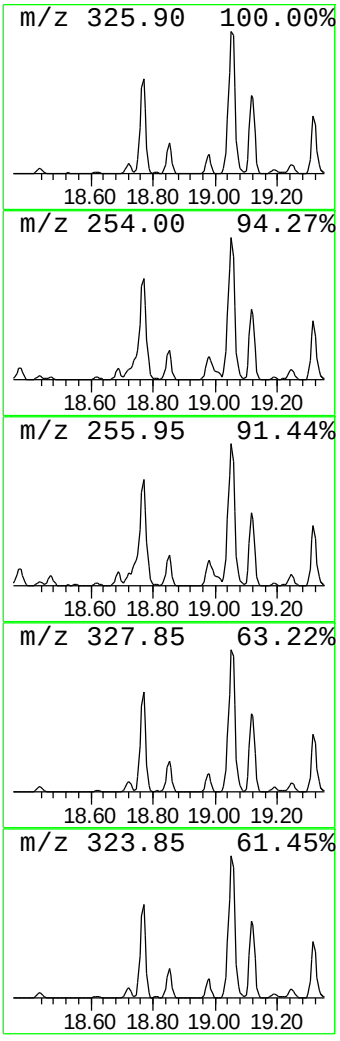
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 30 1,1'-Biphenyl, 2,2',3,3',5-... Concentration Rank 40

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.85 | 4.15 ng/ul | 405017 | Phenanthrene-d10 | 16.82 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2,2',3,3',5-penta... | 324 | C12H5Cl5 | 060145-20-2 | 99 |
| 2 | 1,1'-Biphenyl, 2,2',3,5,6-Pentac... | 324 | C12H5Cl5 | 073575-56-1 | 99 |
| 3 | 1,1'-Biphenyl, 2,2',3,5',6-penta... | 324 | C12H5Cl5 | 038379-99-6 | 99 |
| 4 | 2,3,3',5,5'-Pentachloro-1,1'-bip... | 324 | C12H5Cl5 | 039635-32-0 | 99 |
| 5 | 3,3',4,4',5-Pentachloro-1,1'-bi... | 324 | C12H5Cl5 | 057465-28-8 | 99 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM061020\
Data File : BM026347.D
Acq On : 11 Jun 2020 01:35
Operator : JU/CG
Sample : L2850-06
Misc :
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** BNA_M
**ClientSampleId :** ETTX9

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051320MA.M
Quant Title : SVOA 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 |
| (DEL) Alkane: Str... | 2.92 | 11.7 | ng/ul | 536699 | 1 | 7.42 | 920686 | 20.0 |
| 1,1'-Biphenyl, 2,... | 15.34 | 17.3 | ng/ul | 1116280 | 3 | 14.07 | 1291540 | 20.0 |
| 1,1'-Biphenyl, 2,... | 15.95 | 4.4 | ng/ul | 425670 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 2,... | 16.07 | 26.9 | ng/ul | 2626370 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 2,... | 16.36 | 5.3 | ng/ul | 520513 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 2,... | 16.72 | 67.9 | ng/ul | 6627970 | 4 | 16.82 | 1952920 | 20.0 |
| 2,2',4-Trichloro-... | 17.01 | 36.9 | ng/ul | 3598700 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 3,... | 17.29 | 9.4 | ng/ul | 916589 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 2,... | 17.32 | 2.5 | ng/ul | 244359 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 2,... | 17.43 | 115.7 | ng/ul | 11300300 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 3,... | 17.56 | 49.7 | ng/ul | 4857360 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 2,... | 17.68 | 21.4 | ng/ul | 2089450 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 2,... | 17.73 | 10.9 | ng/ul | 1068090 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 2,... | 17.85 | 4.6 | ng/ul | 444826 | 4 | 16.82 | 1952920 | 20.0 |
| 2,2',3,6-Tetrachl... | 17.91 | 56.7 | ng/ul | 5539150 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 2,... | 17.97 | 34.4 | ng/ul | 3356560 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.19 | 52.5 | ng/ul | 5123600 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.24 | 15.5 | ng/ul | 1514840 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 2'... | 18.30 | 13.5 | ng/ul | 1315450 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.33 | 14.4 | ng/ul | 1411050 | 4 | 16.82 | 1952920 | 20.0 |
| 3,3',4,5-Tetrachl... | 18.37 | 32.4 | ng/ul | 3158610 | 4 | 16.82 | 1952920 | 20.0 |
| 2,2',4,6'-Tetrach... | 18.63 | 2.3 | ng/ul | 227201 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.69 | 26.9 | ng/ul | 2625560 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.74 | 59.6 | ng/ul | 5824720 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.78 | 56.4 | ng/ul | 5506270 | 4 | 16.82 | 1952920 | 20.0 |
| 1,1'-Biphenyl, 2,... | 18.85 | 4.2 | ng/ul | 405017 | 4 | 16.82 | 1952920 | 20.0 |