

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
 Data File : BN005579.D  
 Acq On : 09 May 2019 22:53  
 Operator : JU/SJ  
 Sample : K2604-20 20X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAJ91

## Integration Parameters: LSCINT.P

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

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

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

Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Title : SVOA CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 3.905       | 151           | 156         | 170          | rBV      | 1858254        | 2843566       | 2.49%           | 0.242%        |
| 2         | 5.293       | 385           | 392         | 407          | rVB      | 3917542        | 7932544       | 6.94%           | 0.676%        |
| 3         | 5.628       | 438           | 449         | 463          | rBV2     | 4572823        | 10499721      | 9.19%           | 0.894%        |
| 4         | 7.252       | 718           | 725         | 733          | rVV2     | 7259020        | 13326792      | 11.66%          | 1.135%        |
| 5         | 7.334       | 733           | 739         | 747          | rVB      | 1843845        | 2934151       | 2.57%           | 0.250%        |
| 6         | 7.705       | 792           | 802         | 808          | rVV      | 1308554        | 2112198       | 1.85%           | 0.180%        |
| 7         | 8.128       | 862           | 874         | 880          | rBV      | 16581565       | 28728855      | 25.14%          | 2.447%        |
| 8         | 8.846       | 992           | 996         | 1005         | rVV      | 1545054        | 2932140       | 2.57%           | 0.250%        |
| 9         | 9.340       | 1074          | 1080        | 1085         | rBV      | 1279535        | 1958955       | 1.71%           | 0.167%        |
| 10        | 9.793       | 1147          | 1157        | 1163         | rBV3     | 4666466        | 10863724      | 9.51%           | 0.925%        |
| 11        | 9.863       | 1163          | 1169        | 1173         | rBV      | 3753186        | 7230459       | 6.33%           | 0.616%        |
| 12        | 10.346      | 1246          | 1251        | 1255         | rBV      | 1492291        | 2684329       | 2.35%           | 0.229%        |
| 13        | 10.458      | 1255          | 1270        | 1274         | rVV2     | 36320525       | 114256389     | 100.00%         | 9.733%        |
| 14        | 10.534      | 1277          | 1283        | 1288         | rBV2     | 1752033        | 2735340       | 2.39%           | 0.233%        |
| 15        | 11.393      | 1417          | 1429        | 1433         | rBV2     | 1173344        | 2862983       | 2.51%           | 0.244%        |
| 16        | 11.810      | 1493          | 1500        | 1507         | rBV2     | 1930565        | 3312263       | 2.90%           | 0.282%        |
| 17        | 12.063      | 1529          | 1543        | 1547         | rBV2     | 34882703       | 86921418      | 76.08%          | 7.404%        |
| 18        | 12.275      | 1564          | 1579        | 1584         | rBV      | 27854683       | 56484309      | 49.44%          | 4.811%        |
| 19        | 13.057      | 1705          | 1712        | 1725         | rVB2     | 9200751        | 15176411      | 13.28%          | 1.293%        |
| 20        | 13.252      | 1739          | 1745        | 1757         | rVB      | 3188804        | 7474666       | 6.54%           | 0.637%        |
| 21        | 13.393      | 1761          | 1769        | 1771         | rBV      | 9090236        | 15809819      | 13.84%          | 1.347%        |
| 22        | 13.563      | 1787          | 1798        | 1802         | rBV      | 13614083       | 27963995      | 24.47%          | 2.382%        |
| 23        | 13.610      | 1802          | 1806        | 1814         | rVB      | 9931546        | 14353882      | 12.56%          | 1.223%        |
| 24        | 13.693      | 1814          | 1820        | 1824         | rBV      | 10793022       | 16231253      | 14.21%          | 1.383%        |
| 25        | 13.793      | 1830          | 1837        | 1841         | rBV      | 6851860        | 12104439      | 10.59%          | 1.031%        |
| 26        | 13.969      | 1857          | 1867        | 1878         | rVB      | 26902971       | 49844533      | 43.63%          | 4.246%        |
| 27        | 14.146      | 1893          | 1897        | 1901         | rBV      | 2748982        | 3464066       | 3.03%           | 0.295%        |
| 28        | 14.210      | 1901          | 1908        | 1916         | rBV2     | 5021943        | 8900569       | 7.79%           | 0.758%        |
| 29        | 14.299      | 1917          | 1923        | 1925         | rBV2     | 3747558        | 5970098       | 5.23%           | 0.509%        |
| 30        | 14.446      | 1942          | 1948        | 1957         | rVB      | 1420345        | 3404414       | 2.98%           | 0.290%        |
| 31        | 14.634      | 1970          | 1980        | 1988         | rBV2     | 5149997        | 10549756      | 9.23%           | 0.899%        |
| 32        | 14.716      | 1988          | 1994        | 2000         | rVB      | 3612263        | 4872742       | 4.26%           | 0.415%        |
| 33        | 14.846      | 2009          | 2016        | 2022         | rBV2     | 5306579        | 11341391      | 9.93%           | 0.966%        |
| 34        | 14.910      | 2024          | 2027        | 2030         | rVB      | 2276248        | 2670952       | 2.34%           | 0.228%        |

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 Peak separation: 5

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 Title : SVOA CALIBRATION

|    |        |      |      |      |      |          |          |        |        |
|----|--------|------|------|------|------|----------|----------|--------|--------|
| 35 | 15.010 | 2038 | 2044 | 2046 | rBV2 | 2091996  | 3403095  | 2.98%  | 0.290% |
| 36 | 15.110 | 2056 | 2061 | 2068 | rVB2 | 7750229  | 10832553 | 9.48%  | 0.923% |
| 37 | 15.234 | 2076 | 2082 | 2086 | rVB2 | 4540207  | 7757986  | 6.79%  | 0.661% |
| 38 | 15.298 | 2086 | 2093 | 2103 | rVB  | 18919655 | 35923109 | 31.44% | 3.060% |
| 39 | 15.410 | 2109 | 2112 | 2116 | rBV2 | 1700975  | 1947944  | 1.70%  | 0.166% |
| 40 | 15.493 | 2122 | 2126 | 2136 | rBV4 | 2382953  | 5625615  | 4.92%  | 0.479% |
| 41 | 15.581 | 2136 | 2141 | 2145 | rBV2 | 2267288  | 4027747  | 3.53%  | 0.343% |
| 42 | 15.628 | 2147 | 2149 | 2156 | rVB3 | 1891265  | 2387841  | 2.09%  | 0.203% |
| 43 | 15.704 | 2156 | 2162 | 2166 | rBV  | 6517834  | 10086623 | 8.83%  | 0.859% |
| 44 | 15.969 | 2201 | 2207 | 2210 | rBV2 | 3759556  | 5520744  | 4.83%  | 0.470% |
| 45 | 16.293 | 2255 | 2262 | 2267 | rVV2 | 4800341  | 11011399 | 9.64%  | 0.938% |
| 46 | 16.345 | 2267 | 2271 | 2276 | rVV  | 3635397  | 4971283  | 4.35%  | 0.423% |
| 47 | 16.445 | 2283 | 2288 | 2293 | rBV  | 2955171  | 4540944  | 3.97%  | 0.387% |
| 48 | 16.651 | 2319 | 2323 | 2330 | rVB2 | 2130545  | 3175633  | 2.78%  | 0.271% |
| 49 | 16.769 | 2339 | 2343 | 2345 | rVV  | 1902886  | 2476430  | 2.17%  | 0.211% |
| 50 | 16.804 | 2345 | 2349 | 2359 | rVB  | 6628139  | 11454284 | 10.03% | 0.976% |
| 51 | 17.063 | 2382 | 2393 | 2397 | rVV2 | 37907506 | 83924706 | 73.45% | 7.149% |
| 52 | 17.134 | 2399 | 2405 | 2410 | rVV  | 15747137 | 22868016 | 20.01% | 1.948% |
| 53 | 17.181 | 2410 | 2413 | 2419 | rVB2 | 1501828  | 2522889  | 2.21%  | 0.215% |
| 54 | 17.510 | 2464 | 2469 | 2473 | rVB2 | 3341941  | 4539551  | 3.97%  | 0.387% |
| 55 | 17.569 | 2475 | 2479 | 2486 | rVB2 | 3186671  | 4876812  | 4.27%  | 0.415% |
| 56 | 17.710 | 2499 | 2503 | 2510 | rVB  | 2123143  | 4061455  | 3.55%  | 0.346% |
| 57 | 17.875 | 2524 | 2531 | 2535 | rVV  | 12514237 | 19115304 | 16.73% | 1.628% |
| 58 | 17.922 | 2535 | 2539 | 2548 | rVV  | 13464692 | 19000179 | 16.63% | 1.618% |
| 59 | 18.004 | 2548 | 2553 | 2558 | rVV  | 5195907  | 7363696  | 6.44%  | 0.627% |
| 60 | 18.069 | 2558 | 2564 | 2568 | rVV2 | 15819768 | 29440652 | 25.77% | 2.508% |
| 61 | 18.104 | 2568 | 2570 | 2578 | rVB  | 8373983  | 10145329 | 8.88%  | 0.864% |
| 62 | 18.198 | 2580 | 2586 | 2594 | rVB3 | 1397654  | 2724122  | 2.38%  | 0.232% |
| 63 | 18.375 | 2611 | 2616 | 2620 | rVV  | 6398509  | 8634955  | 7.56%  | 0.736% |
| 64 | 18.622 | 2655 | 2658 | 2663 | rVV3 | 1485146  | 1884836  | 1.65%  | 0.161% |
| 65 | 18.675 | 2663 | 2667 | 2670 | rVV  | 1811966  | 2151857  | 1.88%  | 0.183% |
| 66 | 18.798 | 2682 | 2688 | 2692 | rBV2 | 5800817  | 9475873  | 8.29%  | 0.807% |
| 67 | 18.863 | 2692 | 2699 | 2702 | rBV4 | 2823557  | 6158875  | 5.39%  | 0.525% |
| 68 | 18.892 | 2702 | 2704 | 2708 | rVB  | 3008107  | 3254968  | 2.85%  | 0.277% |
| 69 | 18.939 | 2708 | 2712 | 2714 | rBV  | 1257822  | 1889747  | 1.65%  | 0.161% |
| 70 | 19.075 | 2727 | 2735 | 2741 | rBV  | 21024295 | 32044403 | 28.05% | 2.730% |
| 71 | 19.222 | 2755 | 2760 | 2765 | rVB  | 8967436  | 11786527 | 10.32% | 1.004% |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Title : SVOA CALIBRATION

|     |        |      |      |      |      |          |          |        |        |
|-----|--------|------|------|------|------|----------|----------|--------|--------|
| 72  | 19.339 | 2777 | 2780 | 2786 | rVB  | 1476344  | 2168067  | 1.90%  | 0.185% |
| 73  | 19.445 | 2787 | 2798 | 2805 | rBV  | 24552638 | 44792791 | 39.20% | 3.816% |
| 74  | 19.763 | 2847 | 2852 | 2861 | rVB2 | 2755875  | 5688430  | 4.98%  | 0.485% |
| 75  | 19.904 | 2870 | 2876 | 2878 | rBV3 | 2675653  | 5055650  | 4.42%  | 0.431% |
| 76  | 19.939 | 2878 | 2882 | 2885 | rVB  | 5938924  | 8280415  | 7.25%  | 0.705% |
| 77  | 20.039 | 2894 | 2899 | 2904 | rBV  | 5799501  | 7306261  | 6.39%  | 0.622% |
| 78  | 20.098 | 2904 | 2909 | 2913 | rBV  | 3845270  | 4861206  | 4.25%  | 0.414% |
| 79  | 20.192 | 2920 | 2925 | 2928 | rBV4 | 1193813  | 1946763  | 1.70%  | 0.166% |
| 80  | 20.233 | 2928 | 2932 | 2936 | rVV  | 2926627  | 4368371  | 3.82%  | 0.372% |
| 81  | 20.281 | 2936 | 2940 | 2949 | rVB  | 4426002  | 6929134  | 6.06%  | 0.590% |
| 82  | 20.651 | 2998 | 3003 | 3008 | rBV2 | 945383   | 2330187  | 2.04%  | 0.198% |
| 83  | 20.857 | 3035 | 3038 | 3041 | rVV  | 1855591  | 2199236  | 1.92%  | 0.187% |
| 84  | 20.898 | 3041 | 3045 | 3048 | rVB  | 2433918  | 2995167  | 2.62%  | 0.255% |
| 85  | 20.933 | 3048 | 3051 | 3055 | rBV  | 1422131  | 1911617  | 1.67%  | 0.163% |
| 86  | 21.204 | 3092 | 3097 | 3102 | rBV  | 12702303 | 20324356 | 17.79% | 1.731% |
| 87  | 21.257 | 3102 | 3106 | 3111 | rVB  | 9303805  | 12368063 | 10.82% | 1.054% |
| 88  | 21.422 | 3131 | 3134 | 3139 | rVV  | 1460711  | 1879818  | 1.65%  | 0.160% |
| 89  | 21.769 | 3189 | 3193 | 3198 | rVV2 | 2772204  | 4313648  | 3.78%  | 0.367% |
| 90  | 21.816 | 3198 | 3201 | 3205 | rVB  | 1534207  | 1962312  | 1.72%  | 0.167% |
| 91  | 21.916 | 3215 | 3218 | 3222 | rVV3 | 1319036  | 1918604  | 1.68%  | 0.163% |
| 92  | 21.963 | 3222 | 3226 | 3228 | rVV  | 1574830  | 2280660  | 2.00%  | 0.194% |
| 93  | 21.992 | 3228 | 3231 | 3237 | rVV2 | 2155027  | 3176603  | 2.78%  | 0.271% |
| 94  | 22.780 | 3358 | 3365 | 3369 | rBV  | 3832893  | 9553980  | 8.36%  | 0.814% |
| 95  | 22.933 | 3387 | 3391 | 3399 | rVB  | 1637084  | 2863738  | 2.51%  | 0.244% |
| 96  | 23.239 | 3436 | 3443 | 3451 | rBV  | 3117417  | 5834560  | 5.11%  | 0.497% |
| 97  | 23.333 | 3452 | 3459 | 3466 | rVV  | 6193040  | 11585560 | 10.14% | 0.987% |
| 98  | 23.469 | 3478 | 3482 | 3491 | rVB2 | 1042694  | 2217410  | 1.94%  | 0.189% |
| 99  | 25.616 | 3840 | 3847 | 3857 | rVB  | 1834216  | 4980588  | 4.36%  | 0.424% |
| 100 | 26.286 | 3955 | 3961 | 3972 | rVB  | 1466364  | 4094742  | 3.58%  | 0.349% |

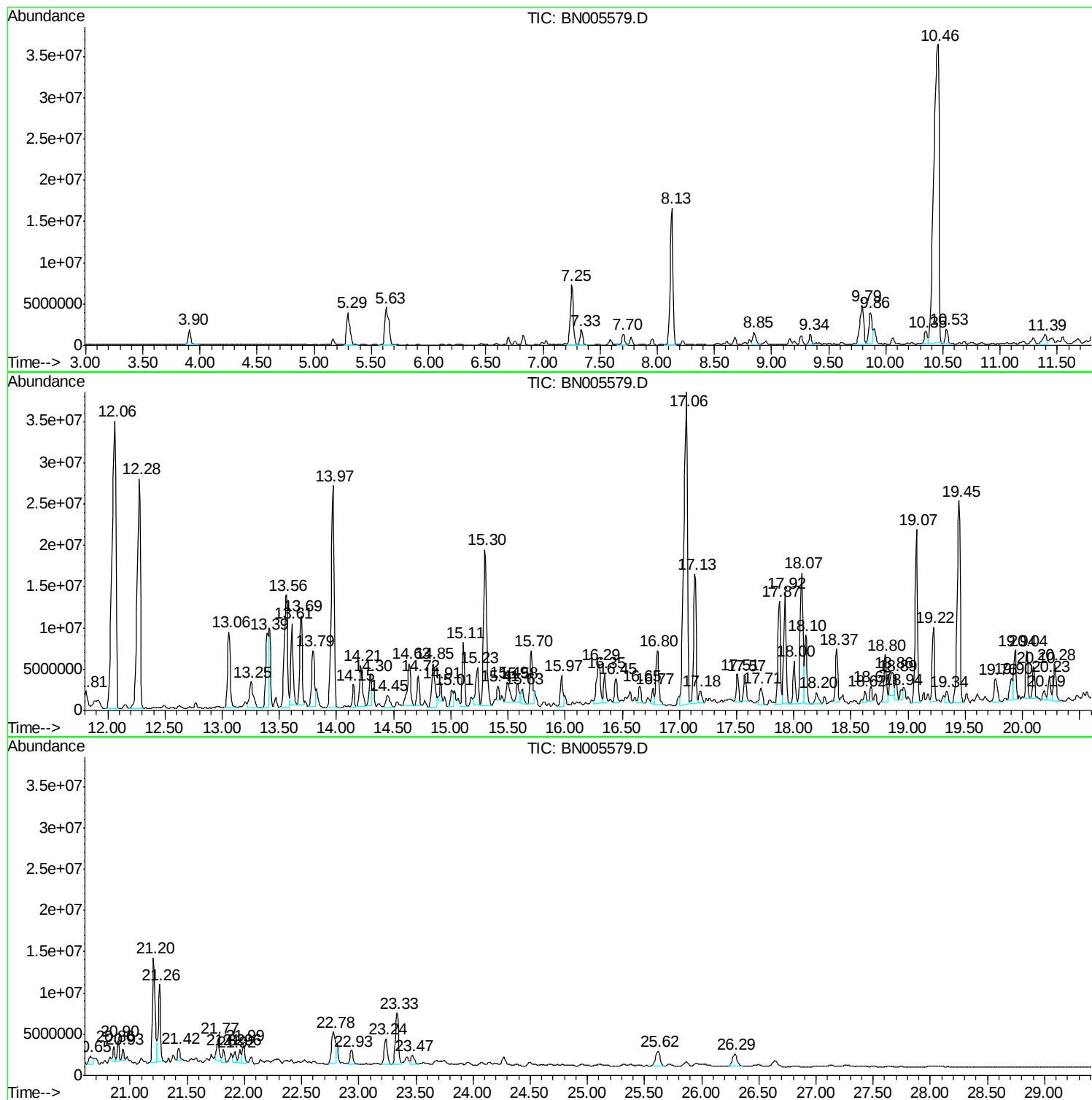
Sum of corrected areas: 1173949041

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

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



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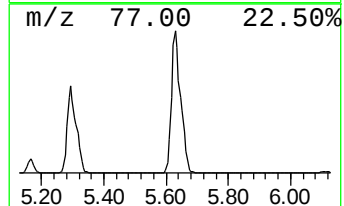
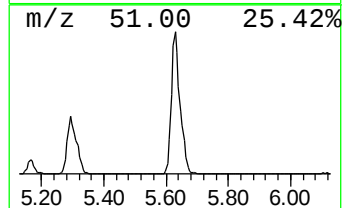
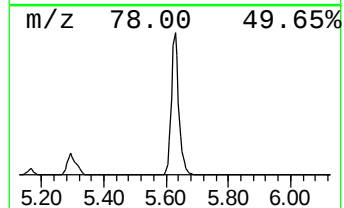
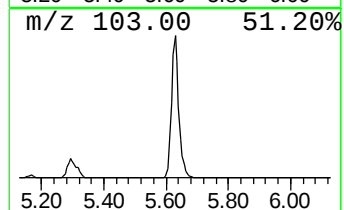
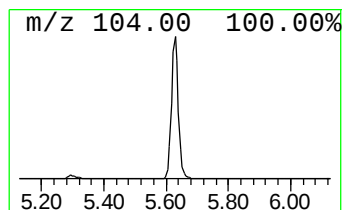
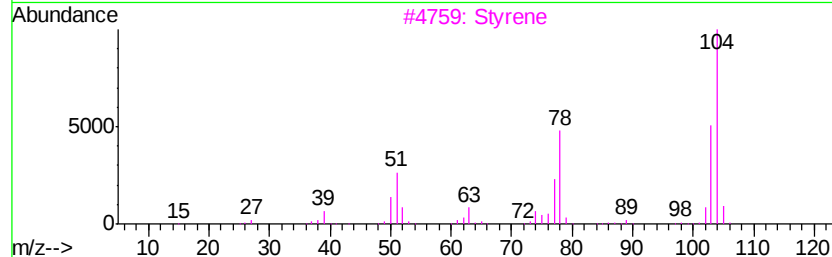
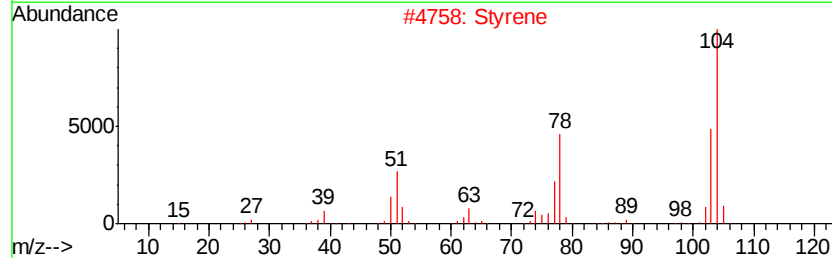
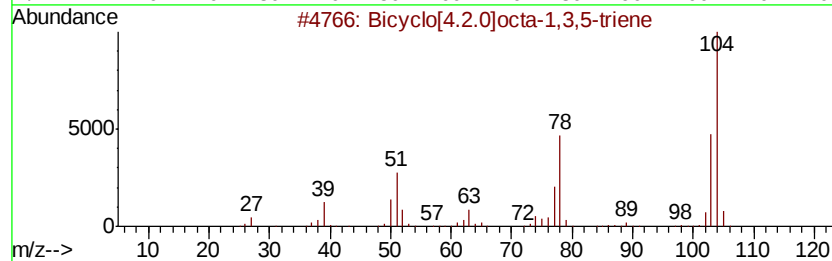
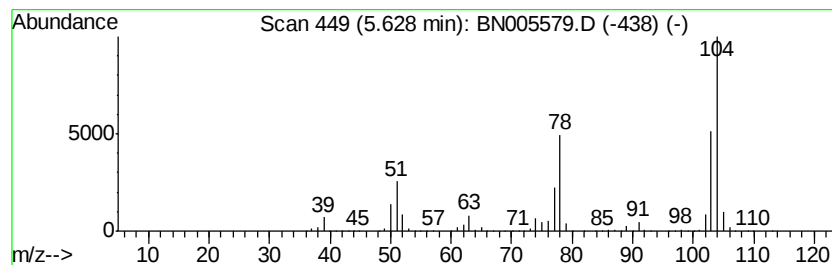
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Bicyclo[4.2.0]octa-1,3,5-tr... Concentration Rank 4

| R.T. | EstConc     | Area     | Relative to ISTD       | R.T. |
|------|-------------|----------|------------------------|------|
| 5.63 | 99.42 ng/ul | 10499700 | 1,4-Dichlorobenzene-d4 | 7.59 |

| Hit# | of | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------|-----|---------|-------------|------|
| 1    | 5  | Bicyclo[4.2.0]octa-1,3,5-triene | 104 | C8H8    | 000694-87-1 | 96   |
| 2    |    | Styrene                         | 104 | C8H8    | 000100-42-5 | 96   |
| 3    |    | Styrene                         | 104 | C8H8    | 000100-42-5 | 96   |
| 4    |    | 1,3,5,7-Cyclooctatetraene       | 104 | C8H8    | 000629-20-9 | 95   |
| 5    |    | Styrene                         | 104 | C8H8    | 000100-42-5 | 95   |



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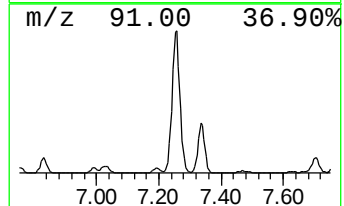
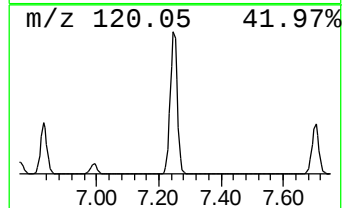
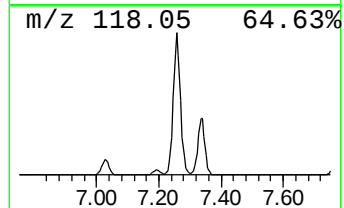
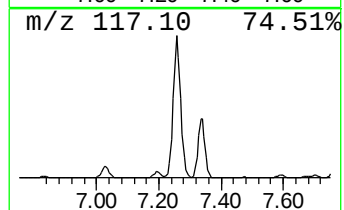
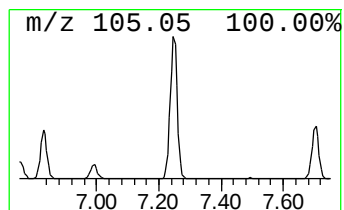
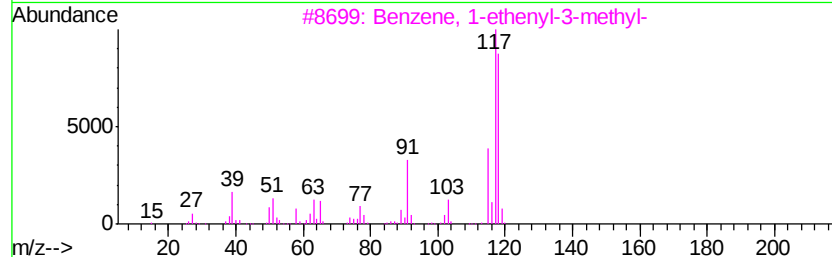
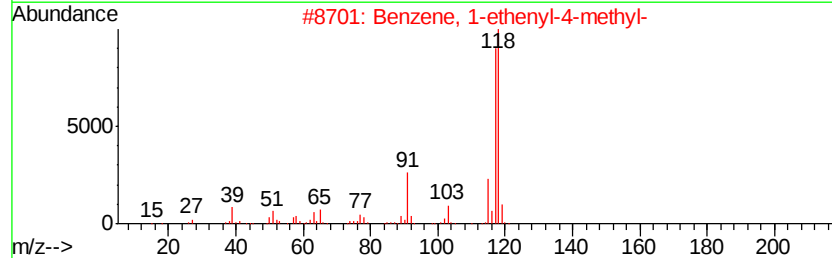
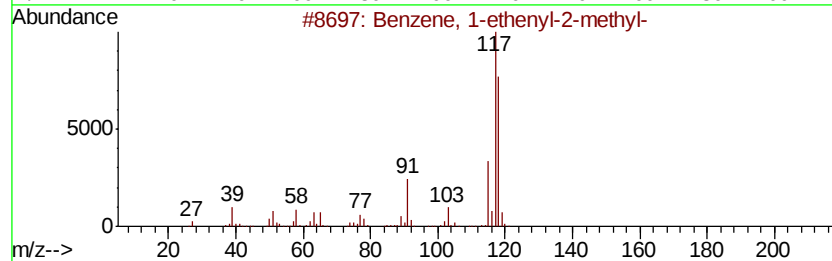
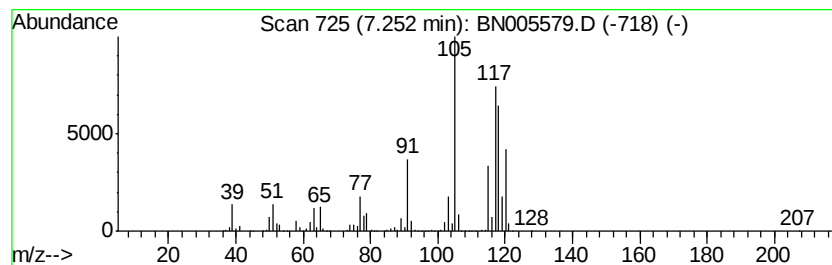
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Benzene, 1-ethenyl-2-methyl- Concentration Rank 3

| R.T. | EstConc      | Area     | Relative to ISTD       | R.T. |
|------|--------------|----------|------------------------|------|
| 7.25 | 126.19 ng/ul | 13326800 | 1,4-Dichlorobenzene-d4 | 7.59 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10   | 000611-15-4 | 91   |
| 2    |    | Benzene, 1-ethenyl-4-methyl- | 118 | C9H10   | 000622-97-9 | 60   |
| 3    |    | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10   | 000100-80-1 | 60   |
| 4    |    | Benzene, 2-propenyl-         | 118 | C9H10   | 000300-57-2 | 55   |
| 5    |    | Benzene, 2-propenyl-         | 118 | C9H10   | 000300-57-2 | 55   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

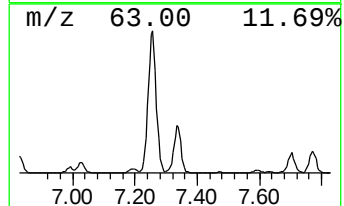
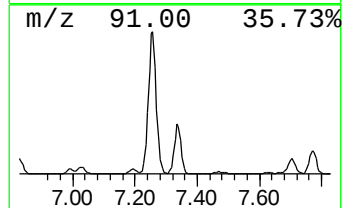
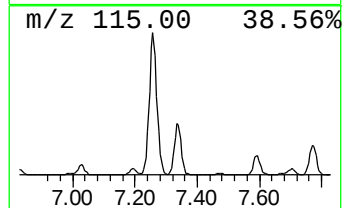
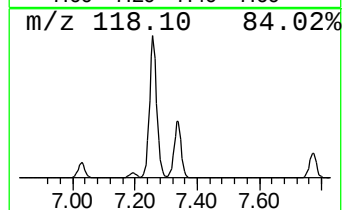
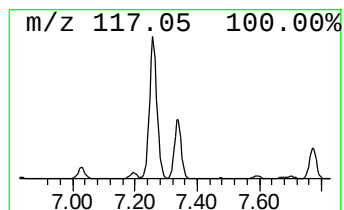
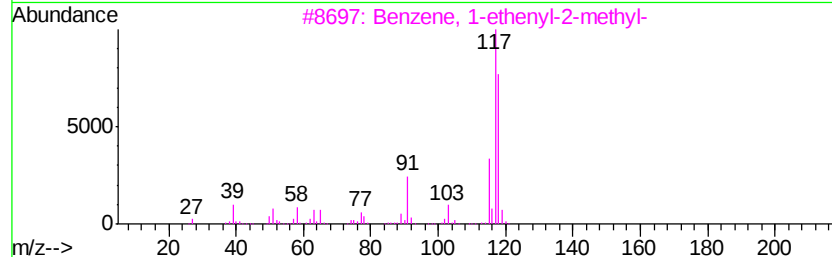
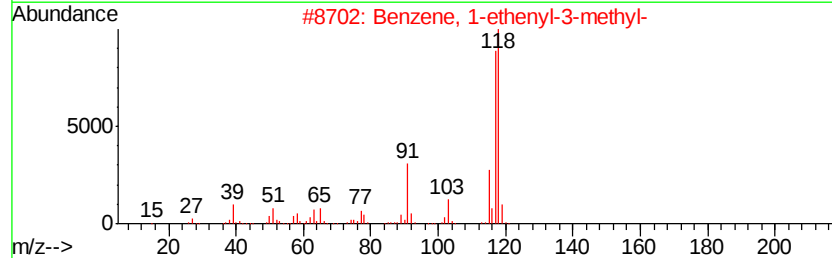
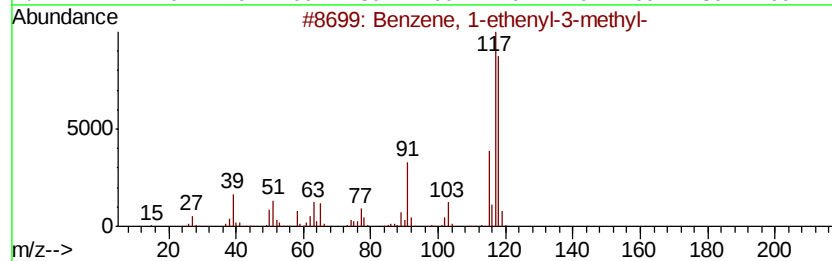
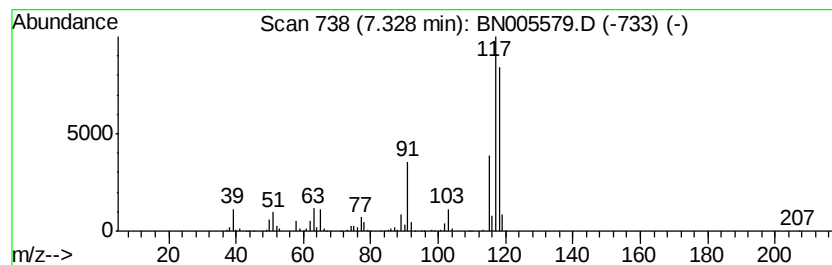
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Quant Title : SVOA CALIBRATION

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

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Peak Number 5 Benzene, 1-ethenyl-3-methyl- Concentration Rank 10

| R.T. | EstConc     | Area    | Relative to ISTD       | R.T. |
|------|-------------|---------|------------------------|------|
| 7.33 | 27.78 ng/ul | 2934150 | 1,4-Dichlorobenzene-d4 | 7.59 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10   | 000100-80-1 | 96   |
| 2    |    | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10   | 000100-80-1 | 95   |
| 3    |    | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10   | 000611-15-4 | 94   |
| 4    |    | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10   | 000100-80-1 | 94   |
| 5    |    | Benzene, cyclopropyl-        | 118 | C9H10   | 000873-49-4 | 94   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
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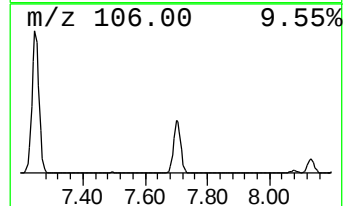
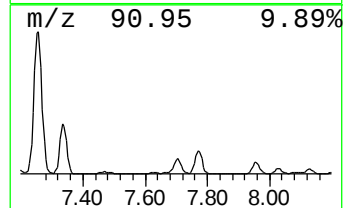
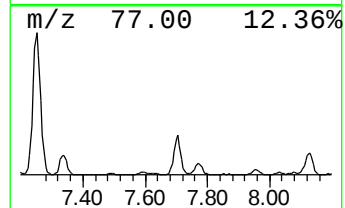
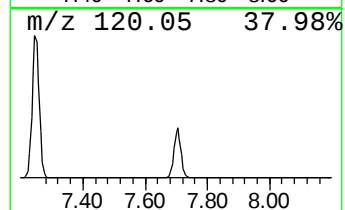
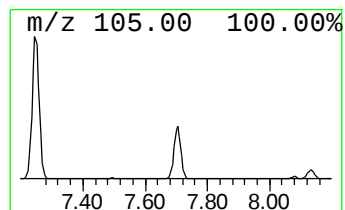
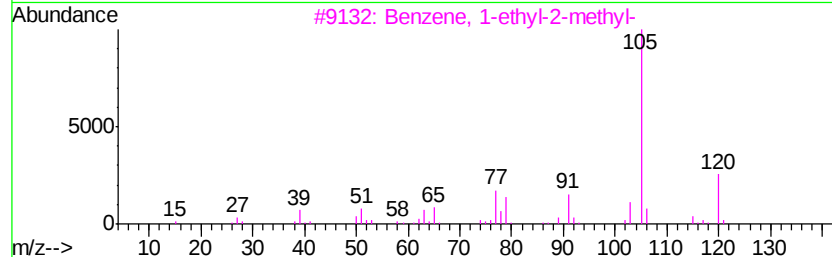
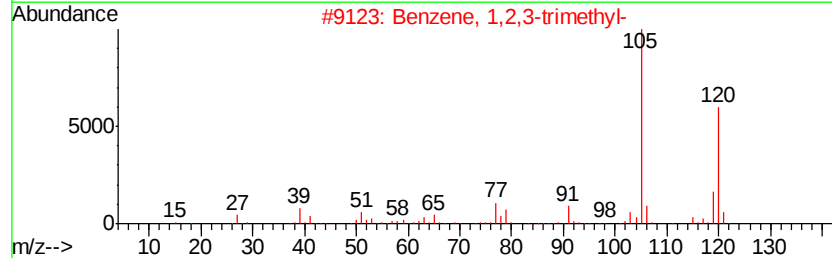
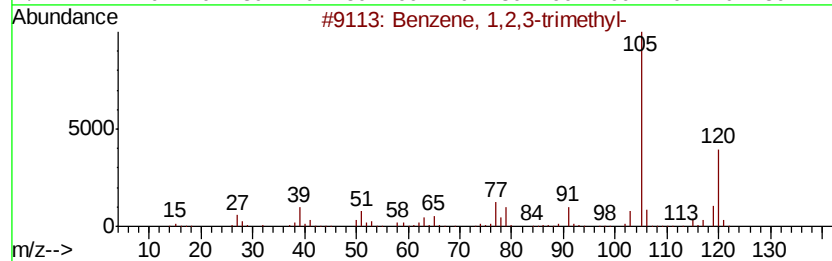
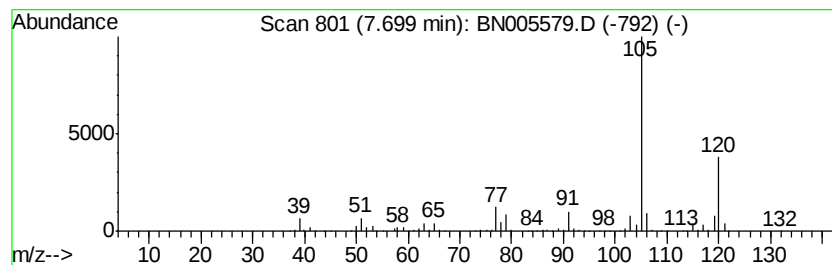
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 Benzene, 1,2,3-trimethyl- Concentration Rank 19

| R.T. | EstConc     | Area    | Relative to ISTD       | R.T. |
|------|-------------|---------|------------------------|------|
| 7.70 | 20.00 ng/ul | 2112200 | 1,4-Dichlorobenzene-d4 | 7.59 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 97   |
| 2    |    | Benzene, 1,2,3-trimethyl-  | 120 | C9H12   | 000526-73-8 | 95   |
| 3    |    | Benzene, 1-ethyl-2-methyl- | 120 | C9H12   | 000611-14-3 | 93   |
| 4    |    | Benzene, 1,2,4-trimethyl-  | 120 | C9H12   | 000095-63-6 | 91   |
| 5    |    | Benzene, 1-ethyl-3-methyl- | 120 | C9H12   | 000620-14-4 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

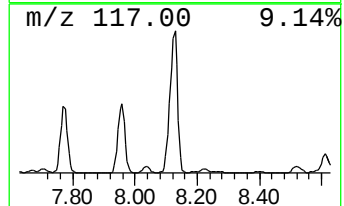
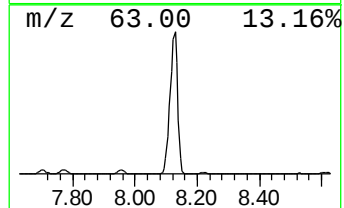
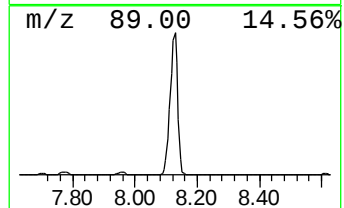
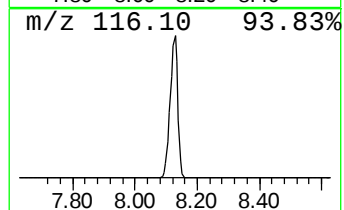
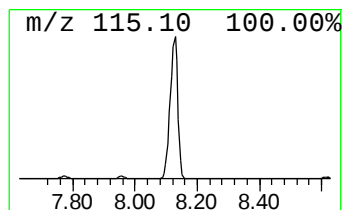
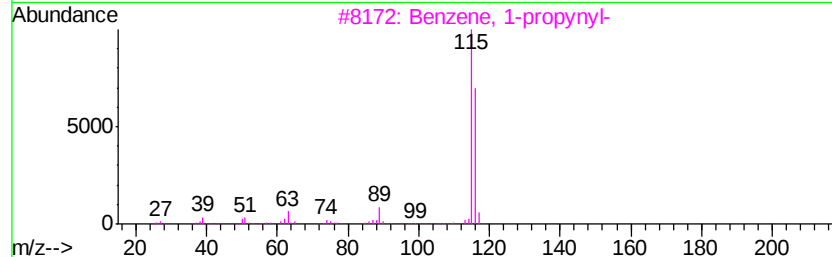
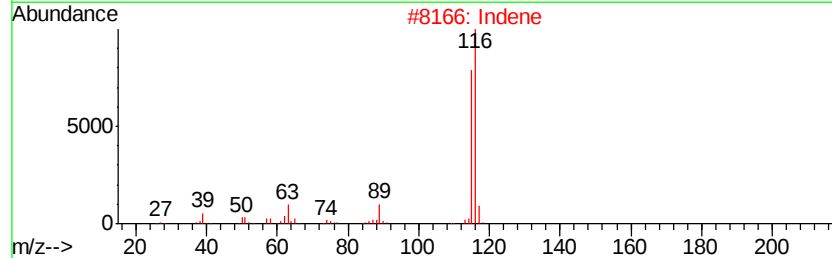
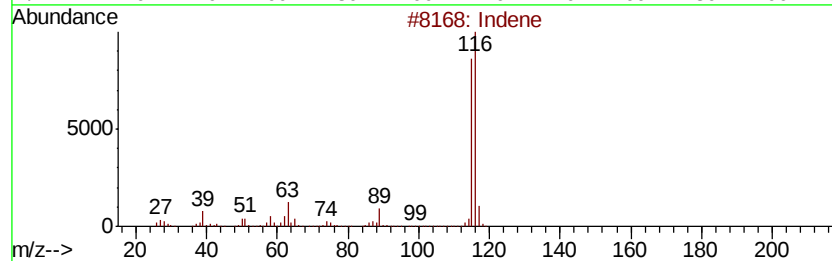
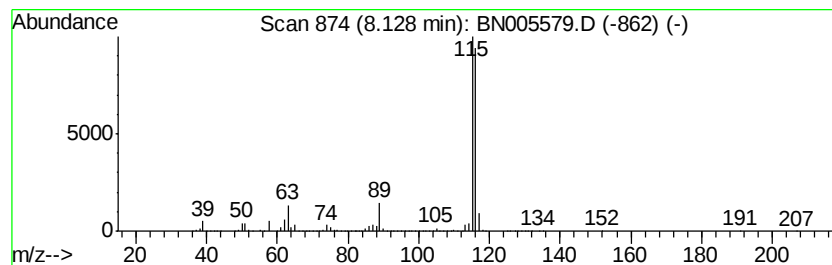
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Indene Concentration Rank 2

| R.T. | EstConc      | Area     | Relative to ISTD       | R.T. |
|------|--------------|----------|------------------------|------|
| 8.13 | 272.03 ng/ul | 28728900 | 1,4-Dichlorobenzene-d4 | 7.59 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Indene                       | 116 | C9H8    | 000095-13-6 | 97   |
| 2    |    | Indene                       | 116 | C9H8    | 000095-13-6 | 95   |
| 3    |    | Benzene, 1-propynyl-         | 116 | C9H8    | 000673-32-5 | 91   |
| 4    |    | Benzene, 1-ethynyl-4-methyl- | 116 | C9H8    | 000766-97-2 | 91   |
| 5    |    | Benzene, 1-propynyl-         | 116 | C9H8    | 000673-32-5 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

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Quant Title : SVOA CALIBRATION

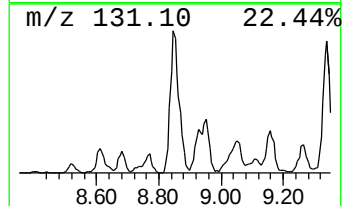
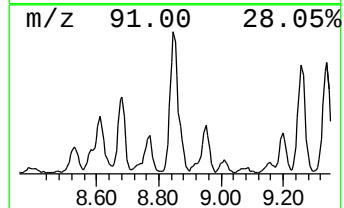
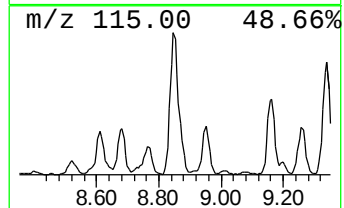
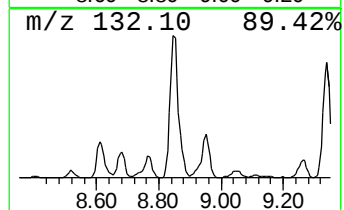
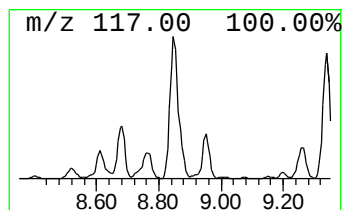
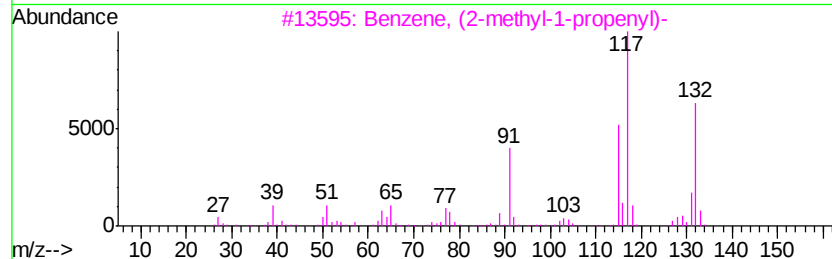
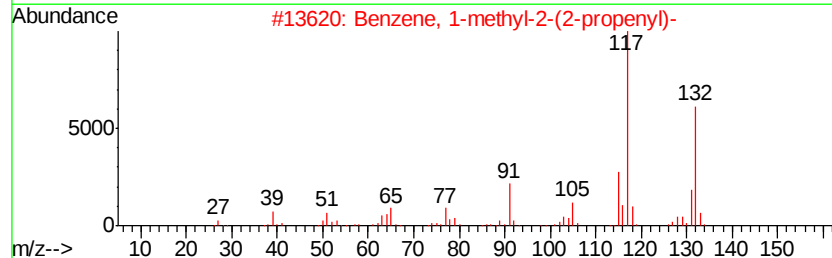
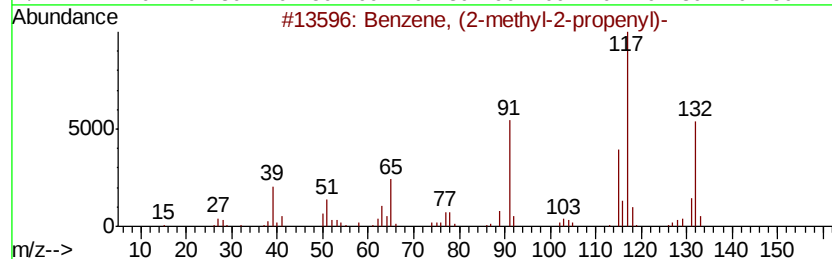
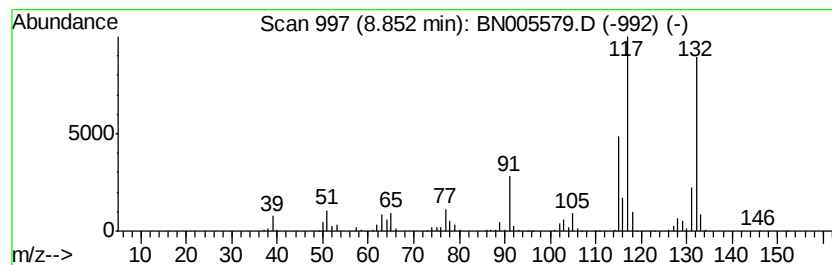
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Benzene, (2-methyl-2-propen... Concentration Rank 11

| R.T. | EstConc     | Area    | Relative to ISTD       | R.T. |
|------|-------------|---------|------------------------|------|
| 8.85 | 27.76 ng/ul | 2932140 | 1,4-Dichlorobenzene-d4 | 7.59 |

| Hit# | of | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, (2-methyl-2-propenyl)-   | 132 | C10H12  | 003290-53-7 | 95   |
| 2    |    | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12  | 001587-04-8 | 95   |
| 3    |    | Benzene, (2-methyl-1-propenyl)-   | 132 | C10H12  | 000768-49-0 | 95   |
| 4    |    | Benzene, 4-ethenyl-1,2-dimethyl-  | 132 | C10H12  | 027831-13-6 | 95   |
| 5    |    | Benzene, 2-ethenyl-1,3-dimethyl-  | 132 | C10H12  | 002039-90-9 | 94   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

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Quant Title : SVOA CALIBRATION

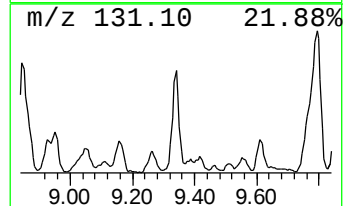
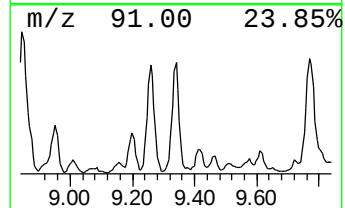
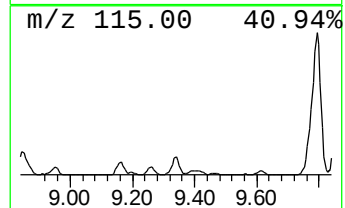
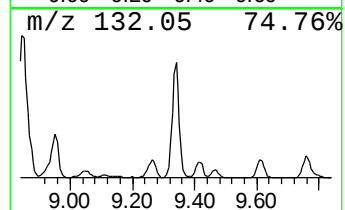
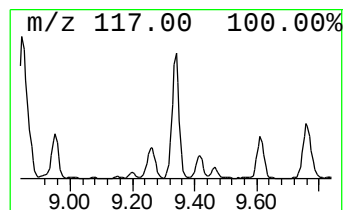
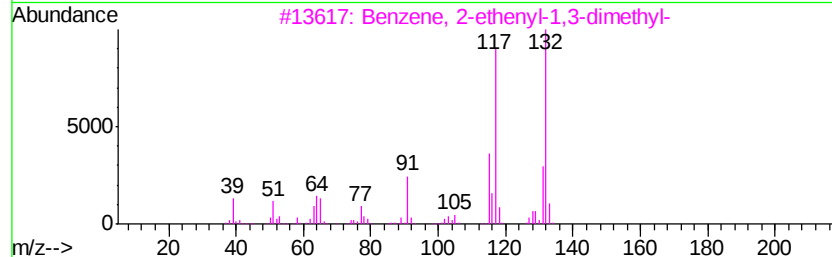
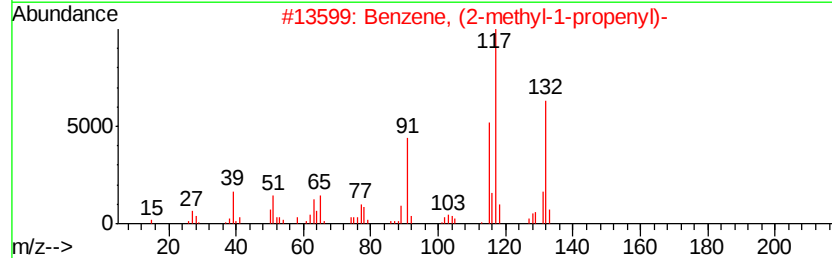
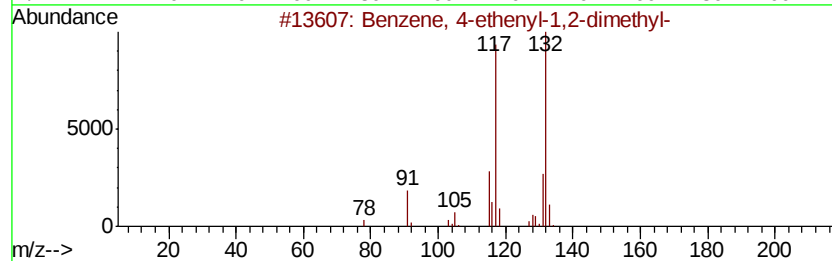
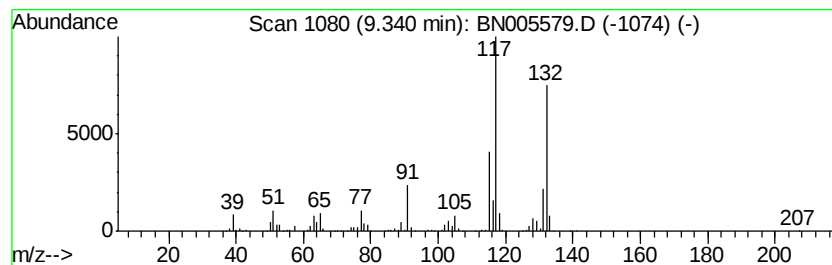
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 Benzene, 4-ethenyl-1,2-dime... Concentration Rank 21

| R.T. | EstConc     | Area    | Relative to ISTD | R.T.  |
|------|-------------|---------|------------------|-------|
| 9.34 | 14.60 ng/ul | 1958960 | Naphthalene-d8   | 10.37 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzene, 4-ethenyl-1,2-dimethyl-    | 132 | C10H12  | 027831-13-6 | 96   |
| 2    |    | Benzene, (2-methyl-1-propenyl)-     | 132 | C10H12  | 000768-49-0 | 95   |
| 3    |    | Benzene, 2-ethenyl-1,3-dimethyl-    | 132 | C10H12  | 002039-90-9 | 94   |
| 4    |    | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12  | 000768-00-3 | 94   |
| 5    |    | Benzene, 2-ethenyl-1,4-dimethyl-    | 132 | C10H12  | 002039-89-6 | 94   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

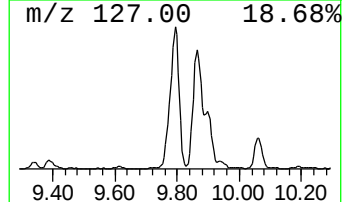
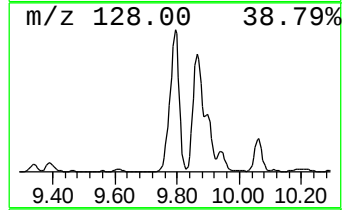
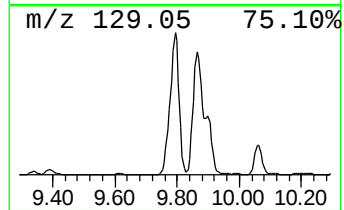
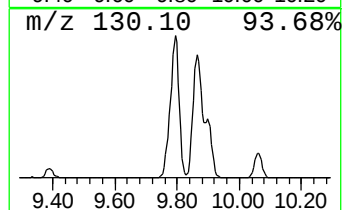
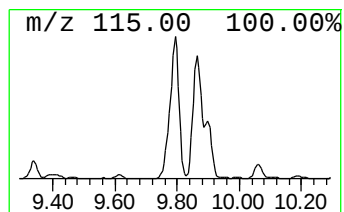
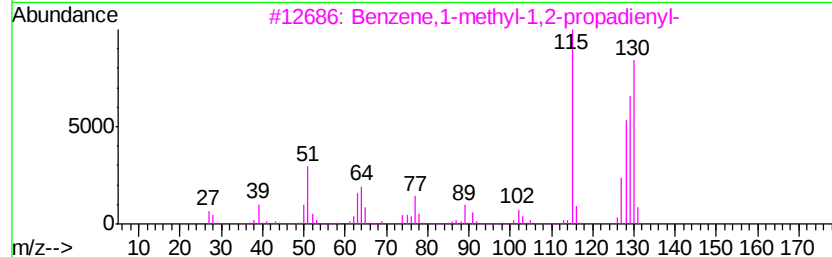
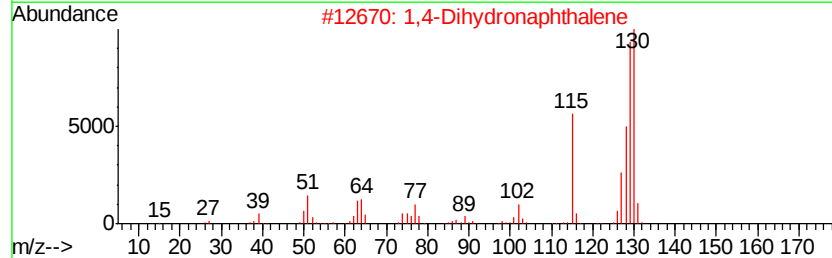
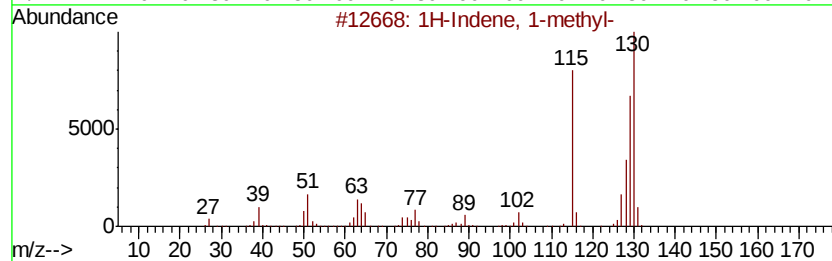
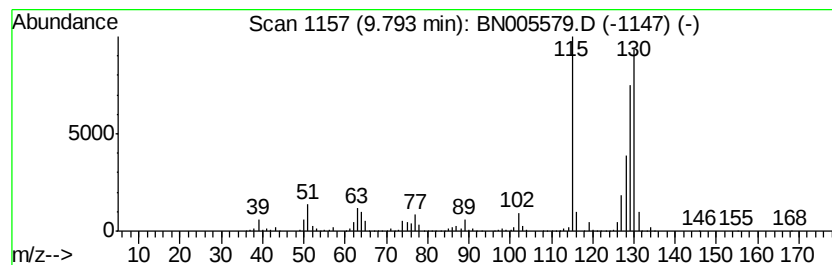
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Quant Title : SVOA CALIBRATION

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

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Peak Number 10 1H-Indene, 1-methyl- Concentration Rank 5

| R.T. | EstConc     | Area     | Relative to ISTD | R.T.  |
|------|-------------|----------|------------------|-------|
| 9.79 | 80.94 ng/ul | 10863700 | Naphthalene-d8   | 10.37 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 1-methyl-                | 130 | C10H10  | 000767-59-9 | 95   |
| 2    |    | 1,4-Dihydronaphthalene              | 130 | C10H10  | 000612-17-9 | 95   |
| 3    |    | Benzene,1-methyl-1,2-propadienyl-   | 130 | C10H10  | 022433-39-2 | 94   |
| 4    |    | 2-Methylindene                      | 130 | C10H10  | 002177-47-1 | 94   |
| 5    |    | Benzene, (1-methyl-2-cyclopropen... | 130 | C10H10  | 065051-83-4 | 93   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

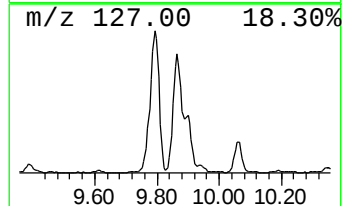
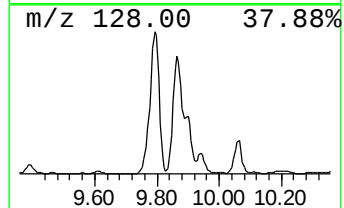
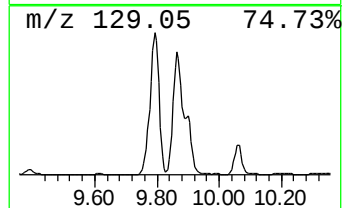
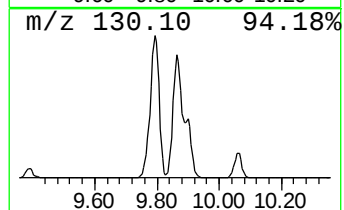
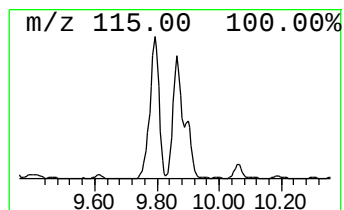
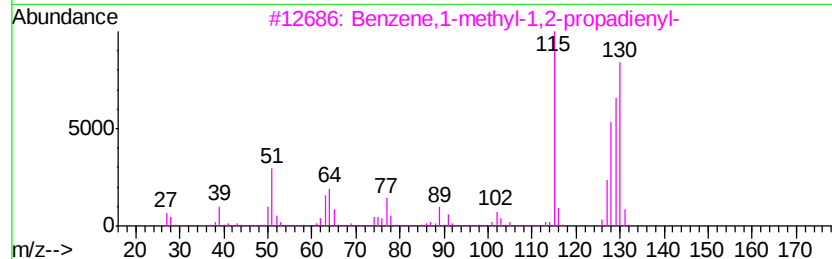
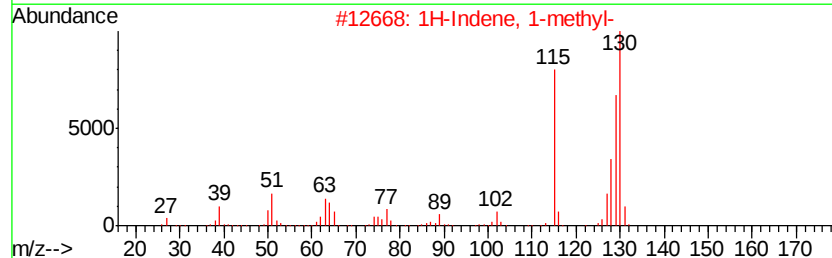
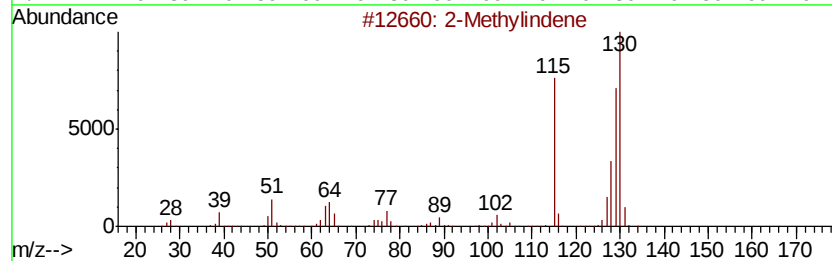
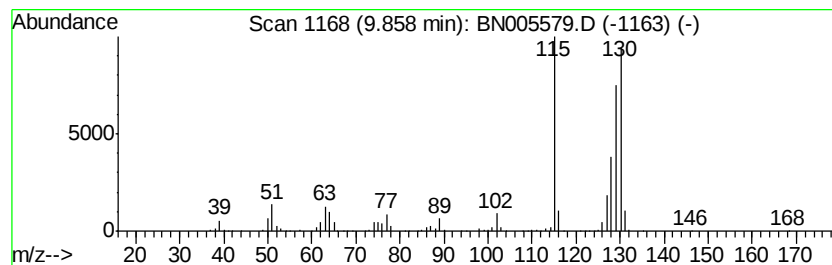
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Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 11 2-Methylindene Concentration Rank 8

| R.T. | EstConc     | Area    | Relative to ISTD | R.T.  |
|------|-------------|---------|------------------|-------|
| 9.86 | 53.87 ng/ul | 7230460 | Naphthalene-d8   | 10.37 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 2-Methylindene                     | 130 | C10H10  | 002177-47-1 | 96   |
| 2    |    |   | 1H-Indene, 1-methyl-               | 130 | C10H10  | 000767-59-9 | 95   |
| 3    |    |   | Benzene, 1-methyl-1,2-propadienyl- | 130 | C10H10  | 022433-39-2 | 94   |
| 4    |    |   | 1,4-Dihydronaphthalene             | 130 | C10H10  | 000612-17-9 | 94   |
| 5    |    |   | Benzene, 1-butyryl-                | 130 | C10H10  | 000622-76-4 | 94   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

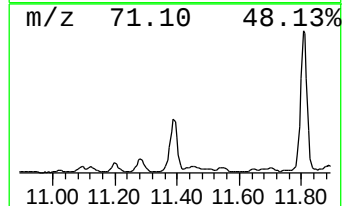
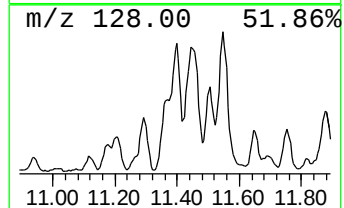
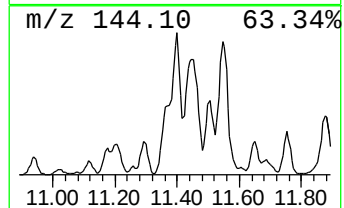
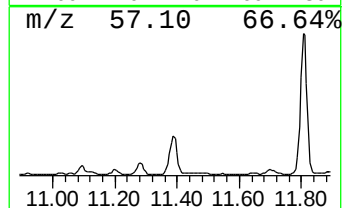
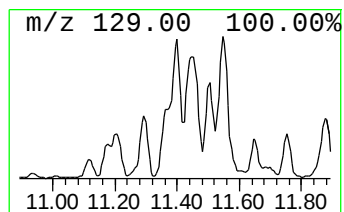
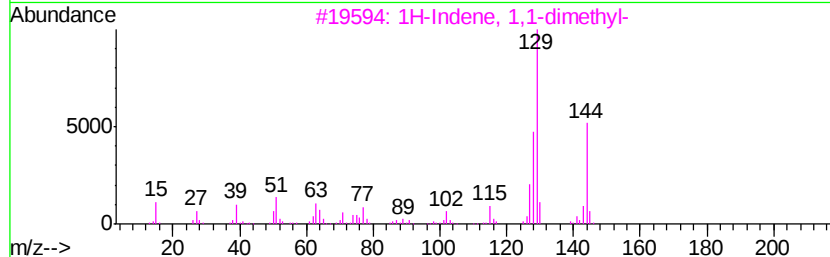
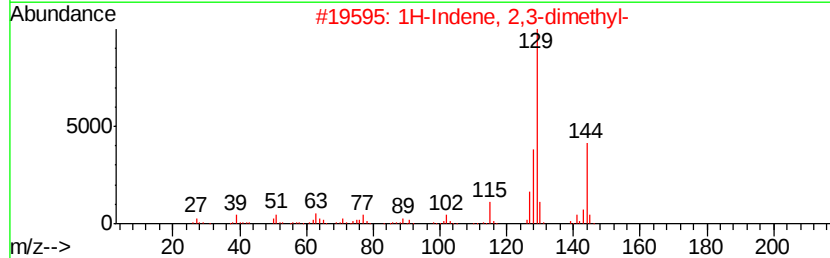
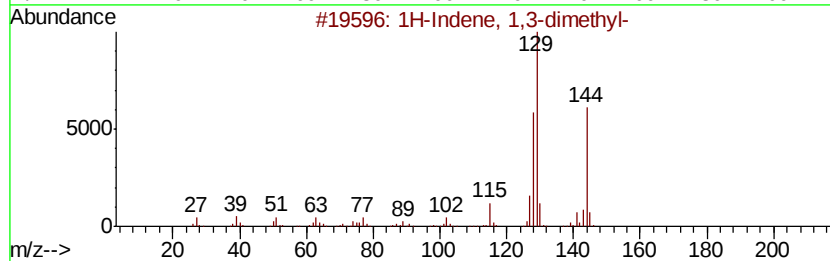
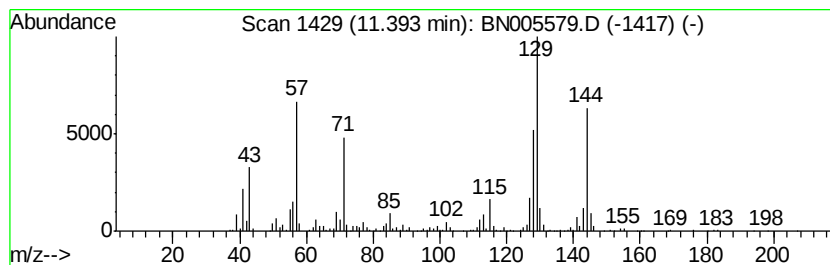
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 1H-Indene, 1,3-dimethyl- Concentration Rank 18

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 11.39 | 21.33 ng/ul | 2862980 | Napthalene-d8    | 10.37 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | 1H-Indene, 1,3-dimethyl- | 144 | C11H12  | 002177-48-2 | 95   |
| 2    |    | 1H-Indene, 2,3-dimethyl- | 144 | C11H12  | 004773-82-4 | 94   |
| 3    |    | 1H-Indene, 1,1-dimethyl- | 144 | C11H12  | 018636-55-0 | 93   |
| 4    |    | 1H-Indene, 4,7-dimethyl- | 144 | C11H12  | 006974-97-6 | 89   |
| 5    |    | 1H-Indene, 1,1-dimethyl- | 144 | C11H12  | 018636-55-0 | 76   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

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Quant Title : SVOA CALIBRATION

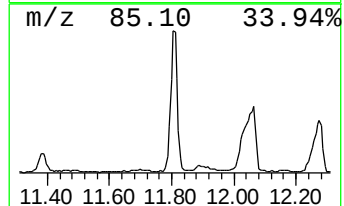
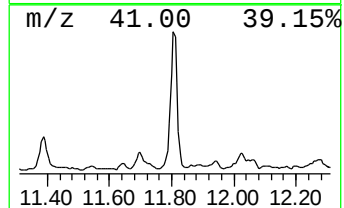
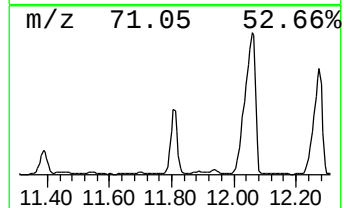
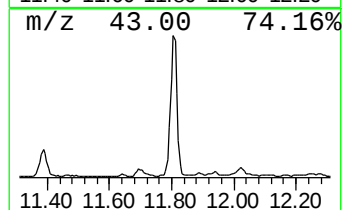
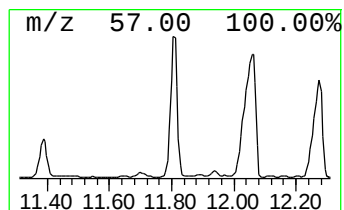
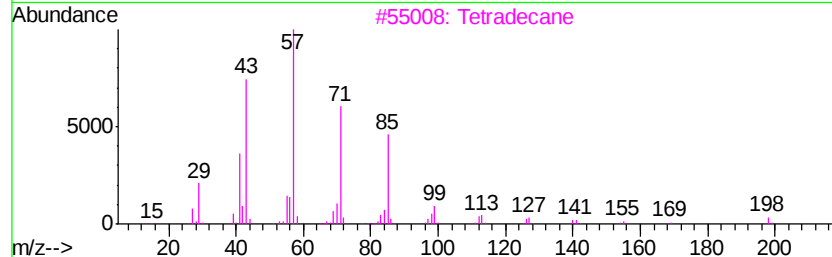
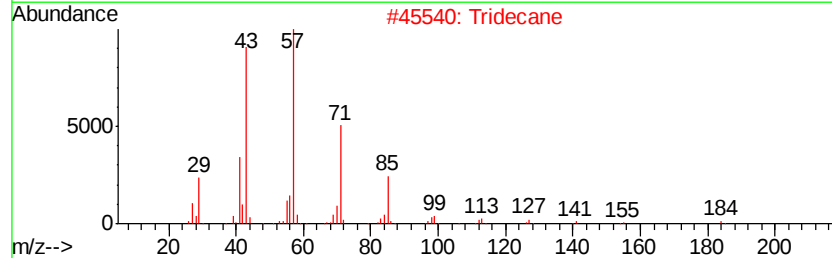
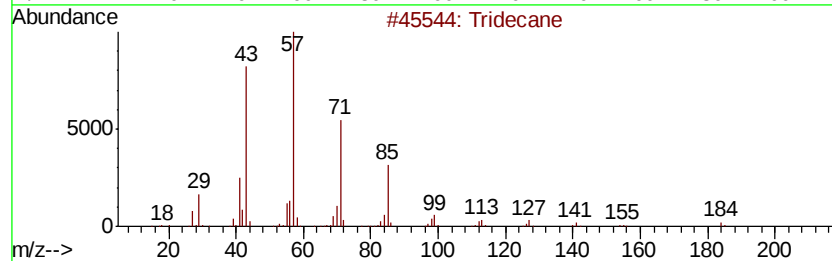
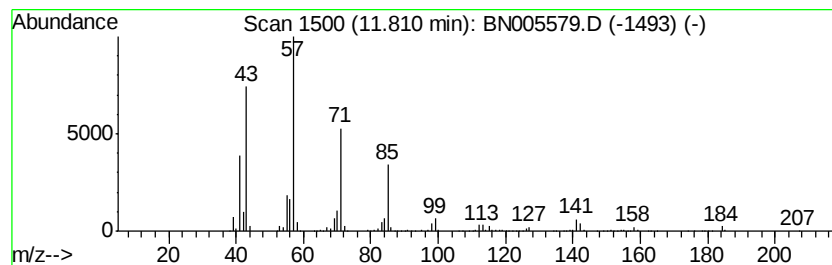
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 16

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 11.81 | 24.68 ng/ul | 3312260 | Naphthalene-d8   | 10.37 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Tridecane    | 184 | C13H28  | 000629-50-5 | 95   |
| 2    |    | Tridecane    | 184 | C13H28  | 000629-50-5 | 87   |
| 3    |    | Tetradecane  | 198 | C14H30  | 000629-59-4 | 86   |
| 4    |    | Hexadecane   | 226 | C16H34  | 000544-76-3 | 86   |
| 5    |    | Undecane     | 156 | C11H24  | 001120-21-4 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

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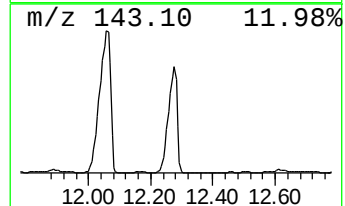
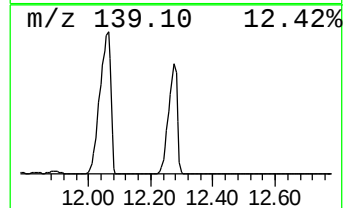
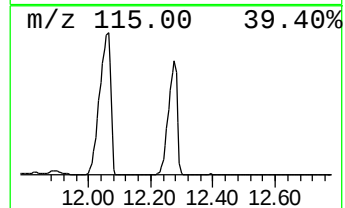
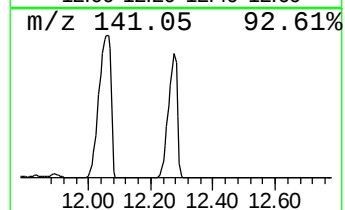
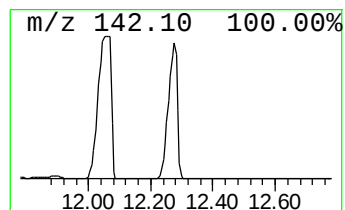
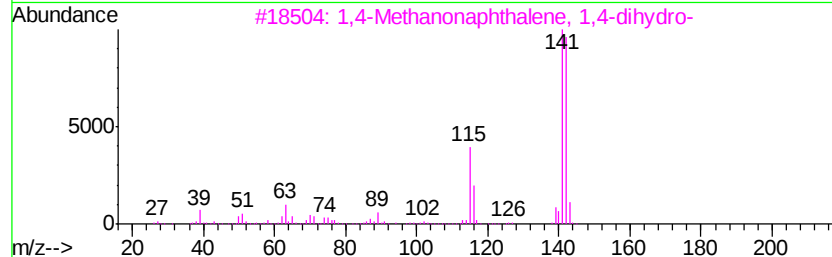
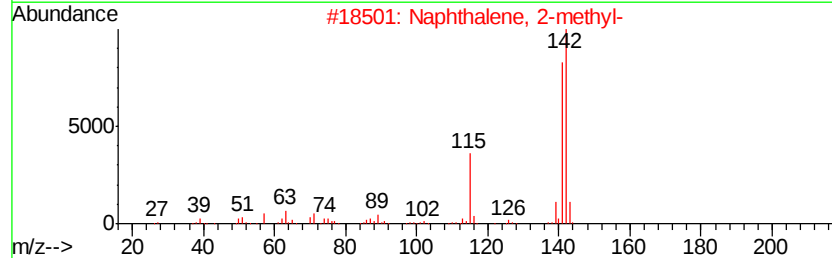
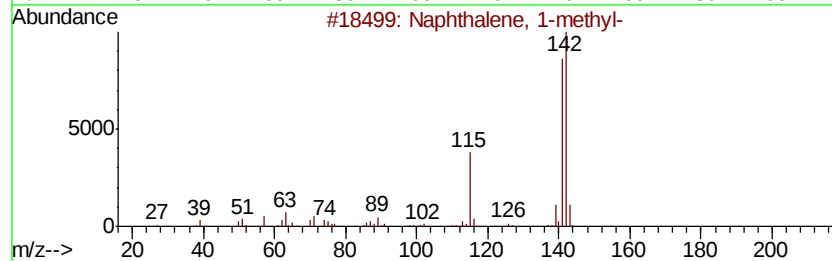
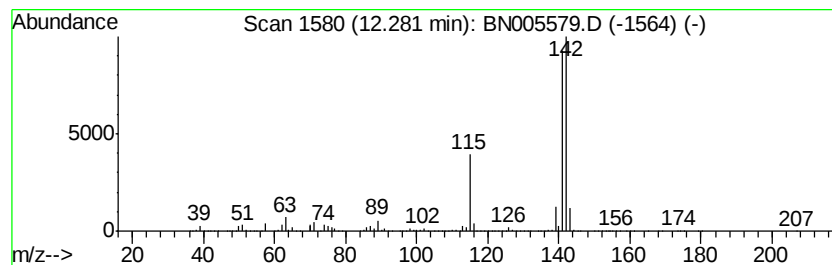
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Naphthalene, 1-methyl- Concentration Rank 1

| R.T.  | EstConc      | Area     | Relative to ISTD | R.T.  |
|-------|--------------|----------|------------------|-------|
| 12.28 | 420.85 ng/ul | 56484300 | Naphthalene-d8   | 10.37 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 96   |
| 2    |    | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 3    |    | 1,4-Methanonaphthalene, 1,4-dihv... | 142 | C11H10  | 004453-90-1 | 94   |
| 4    |    | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 94   |
| 5    |    | 1H-Indene, 1-ethylidene-            | 142 | C11H10  | 002471-83-2 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
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Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

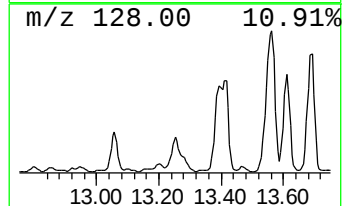
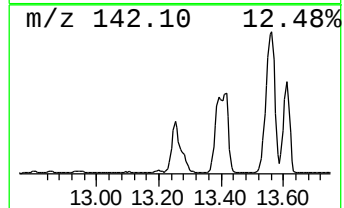
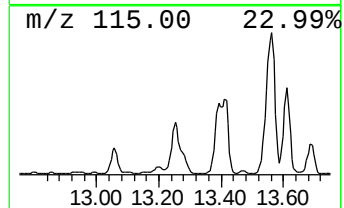
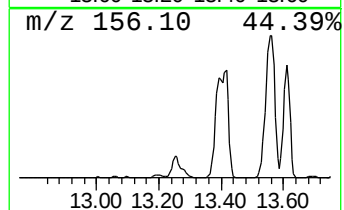
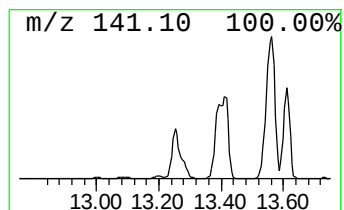
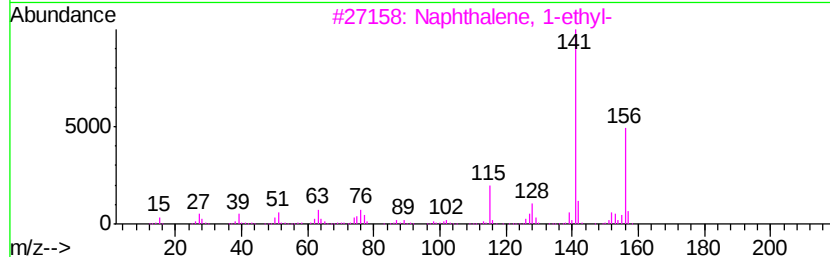
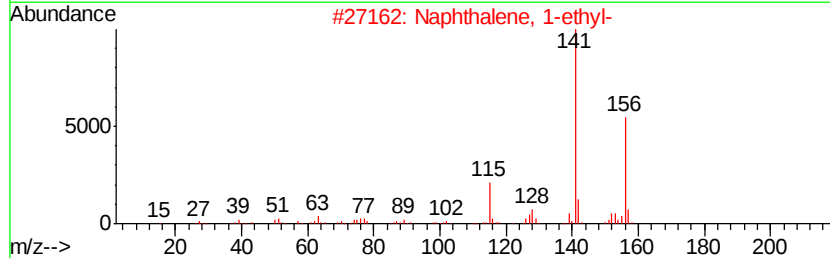
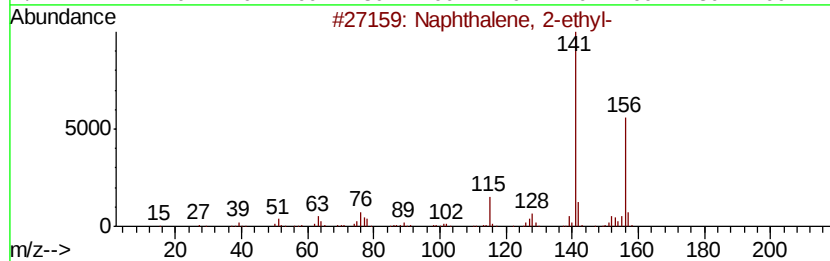
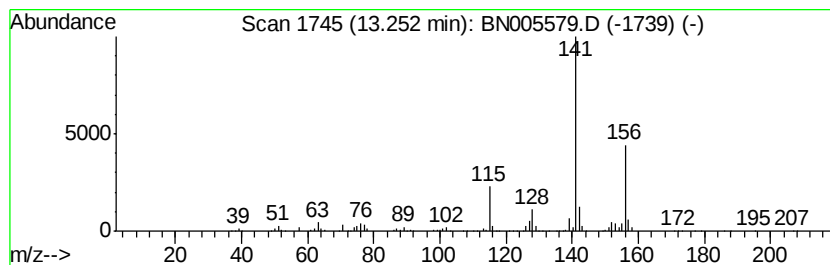
Instrument :  
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ClientSampleId :  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 15 Naphthalene, 2-ethyl- Concentration Rank 20

| R.T.    | EstConc     | Area                  | Relative to ISTD | R.T.           |
|---------|-------------|-----------------------|------------------|----------------|
| 13.25   | 16.80 ng/ul | 7474670               | Acenaphthene-d10 | 14.23          |
| Hit# of | 5           | Tentative ID          | MW MolForm       | CAS# Qual      |
| 1       |             | Naphthalene, 2-ethyl- | 156 C12H12       | 000939-27-5 96 |
| 2       |             | Naphthalene, 1-ethyl- | 156 C12H12       | 001127-76-0 96 |
| 3       |             | Naphthalene, 1-ethyl- | 156 C12H12       | 001127-76-0 95 |
| 4       |             | Naphthalene, 2-ethyl- | 156 C12H12       | 000939-27-5 94 |
| 5       |             | Naphthalene, 1-ethyl- | 156 C12H12       | 001127-76-0 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

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Quant Title : SVOA CALIBRATION

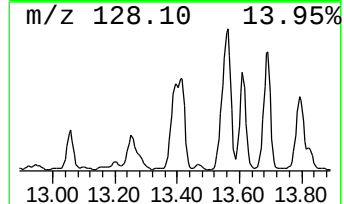
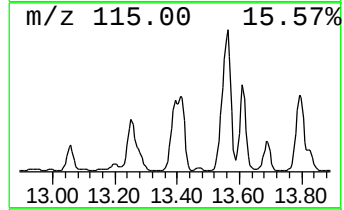
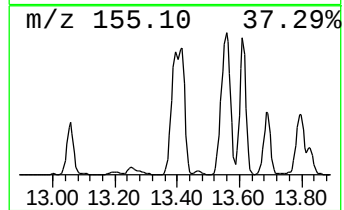
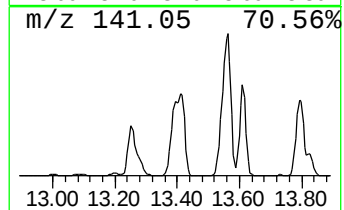
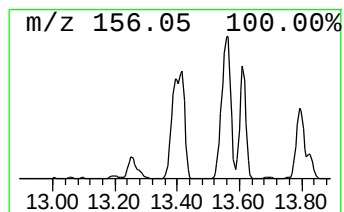
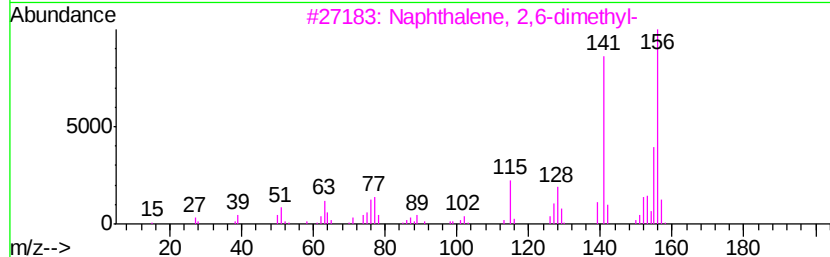
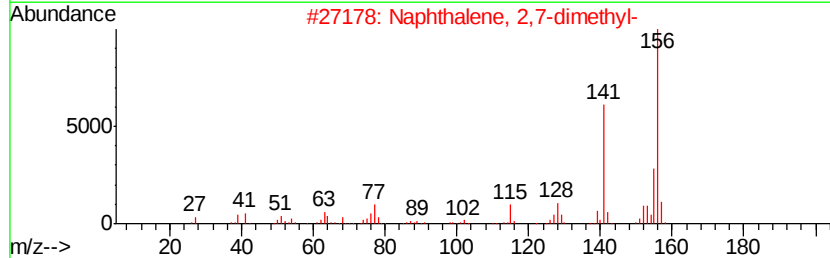
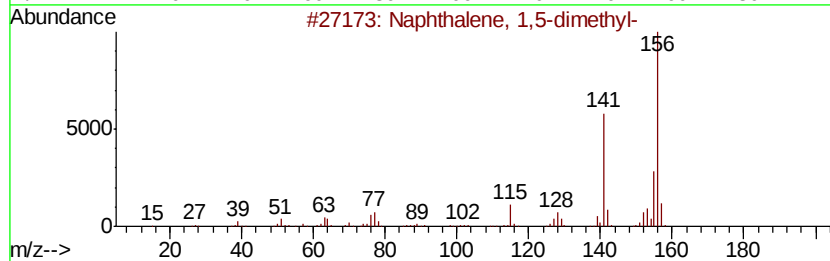
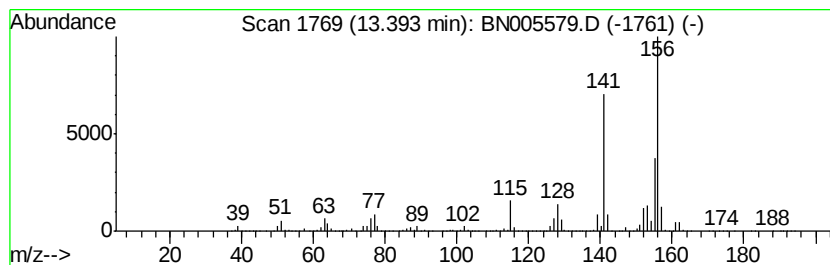
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TIC Integration Parameters: LSCINT.P

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Peak Number 16 Naphthalene, 1,5-dimethyl- Concentration Rank 9

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 13.39 | 35.53 ng/ul | 15809800 | Acenaphthene-d10 | 14.23 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 97   |
| 2    |    | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |
| 3    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 96   |
| 4    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 96   |
| 5    |    | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

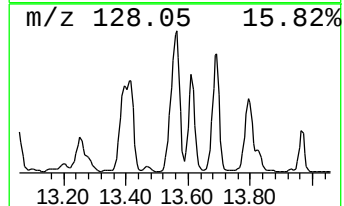
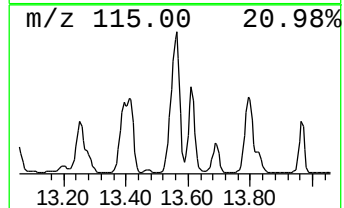
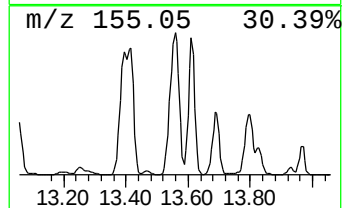
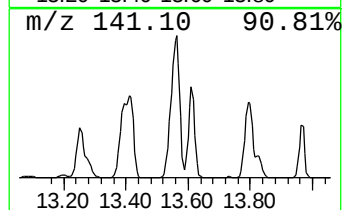
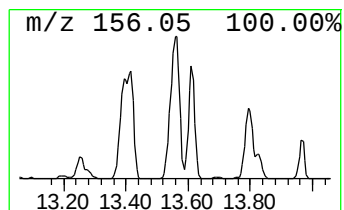
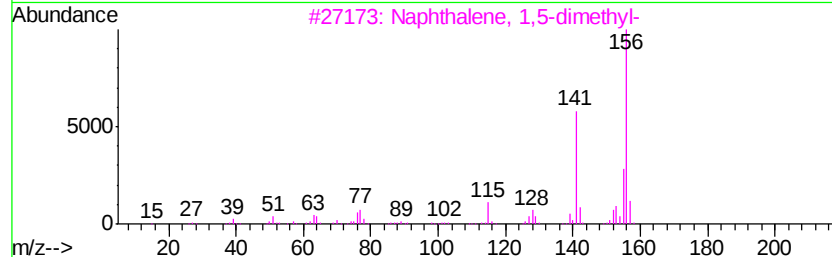
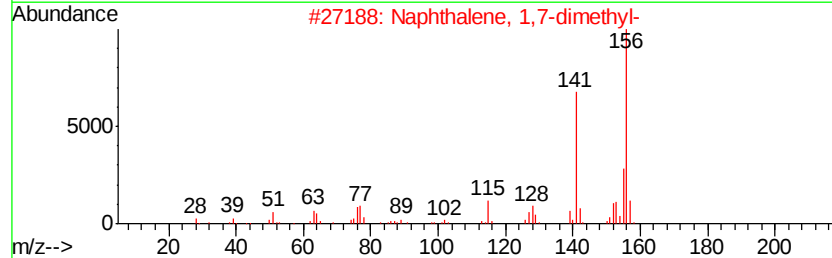
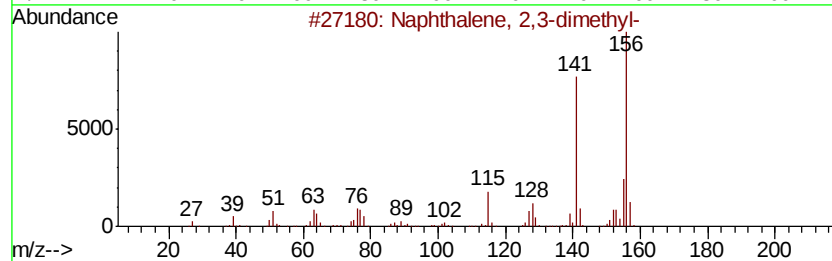
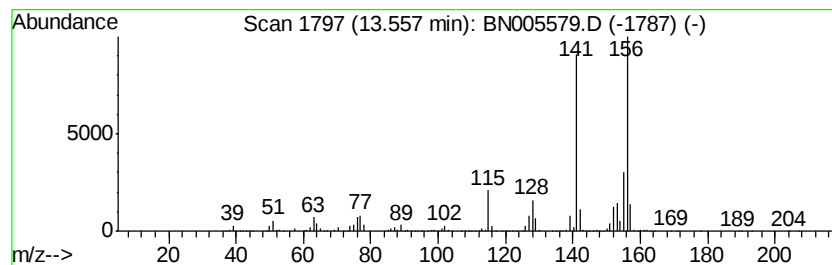
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 17 Naphthalene, 2,3-dimethyl- Concentration Rank 7

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 13.56 | 62.84 ng/ul | 27964000 | Acenaphthene-d10 | 14.23 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 2    |    | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |
| 3    |    | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 97   |
| 4    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 5    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

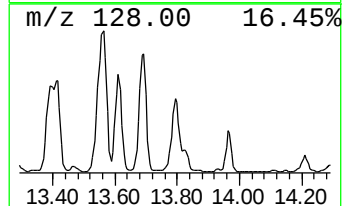
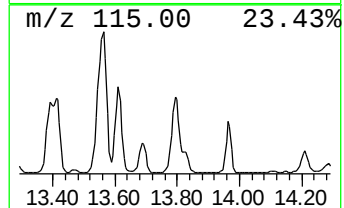
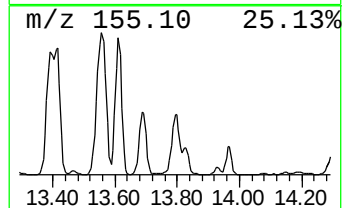
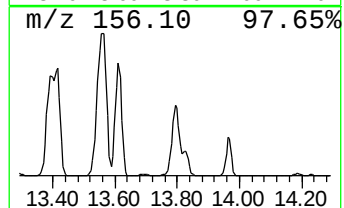
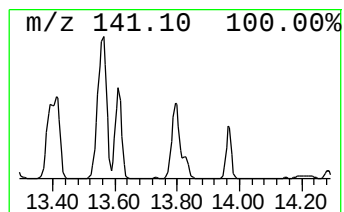
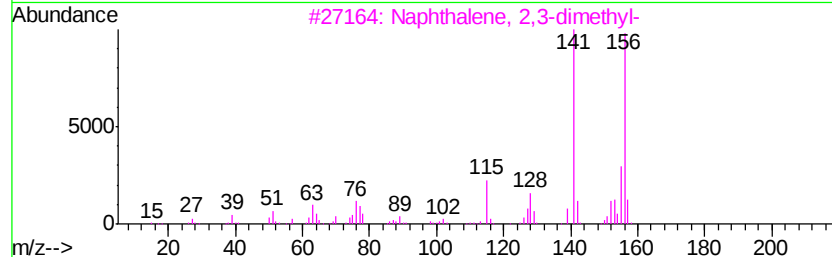
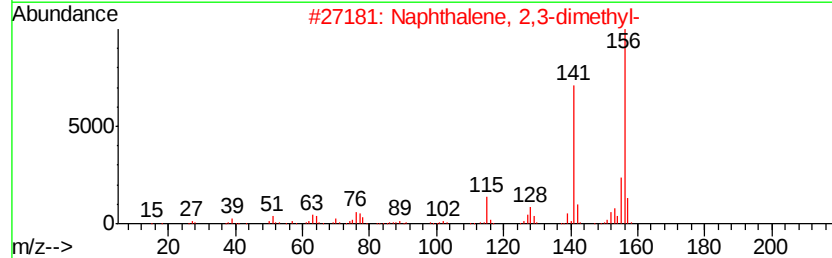
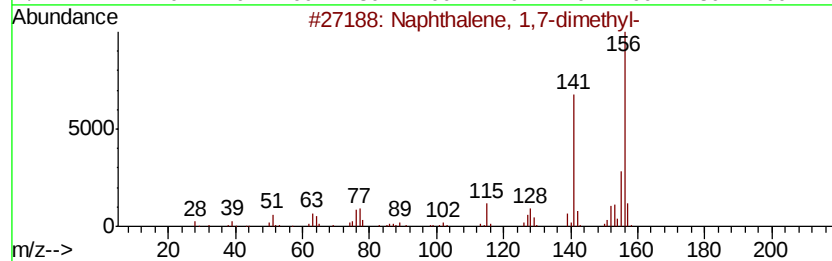
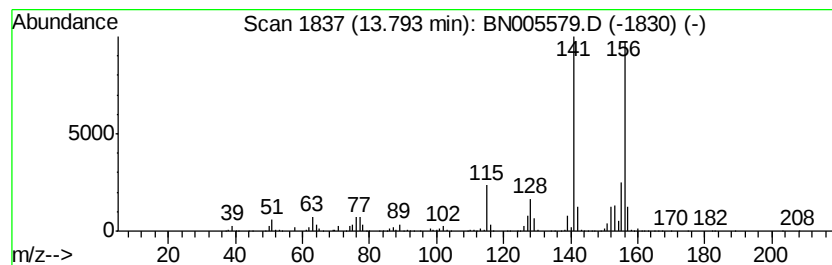
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 18 Naphthalene, 1,7-dimethyl- Concentration Rank 12

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 13.79 | 27.20 ng/ul | 12104400 | Acenaphthene-d10 | 14.23 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |
| 2    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 3    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 4    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 5    |    | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 97   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

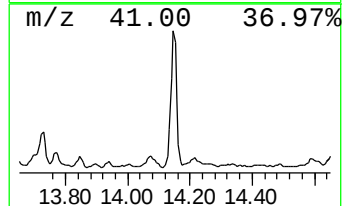
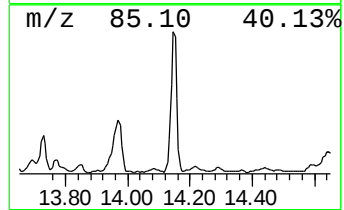
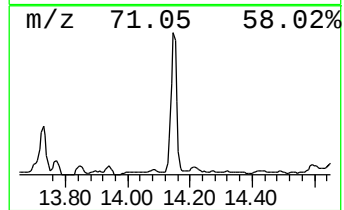
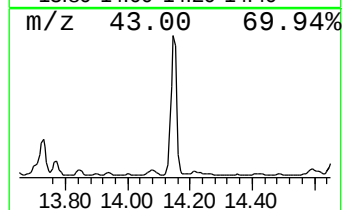
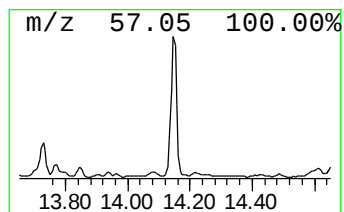
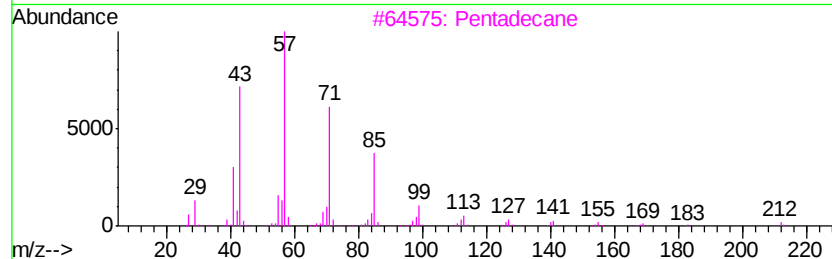
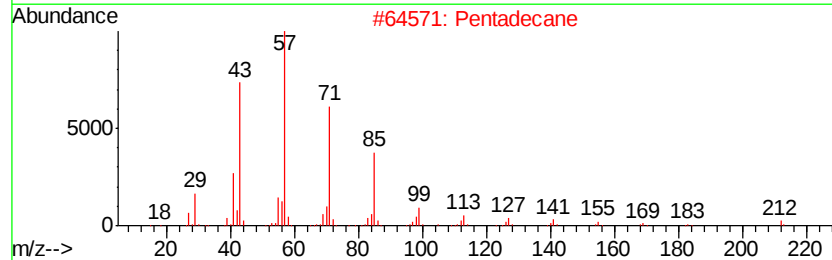
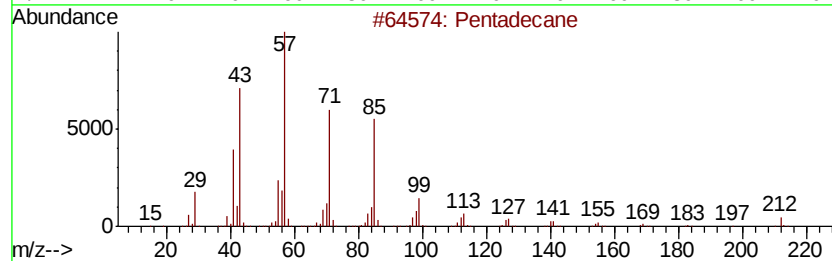
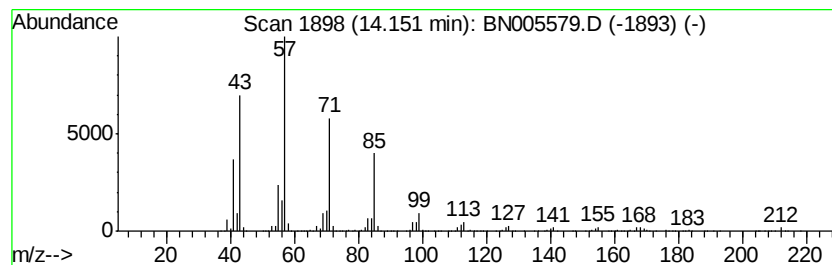
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 27

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 14.15 | 7.78 ng/ul | 3464070 | Acenaphthene-d10 | 14.23 |

| Hit# | of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------|-----|---------|-------------|------|
| 1    |    |   | Pentadecane  | 212 | C15H32  | 000629-62-9 | 95   |
| 2    |    |   | Pentadecane  | 212 | C15H32  | 000629-62-9 | 95   |
| 3    |    |   | Pentadecane  | 212 | C15H32  | 000629-62-9 | 94   |
| 4    |    |   | Tetradecane  | 198 | C14H30  | 000629-59-4 | 91   |
| 5    |    |   | Tridecane    | 184 | C13H28  | 000629-50-5 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

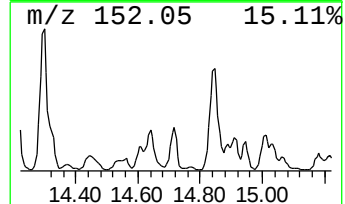
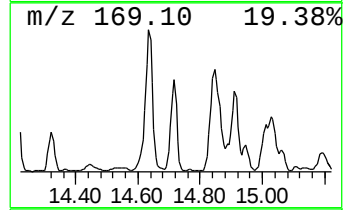
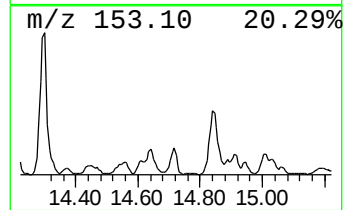
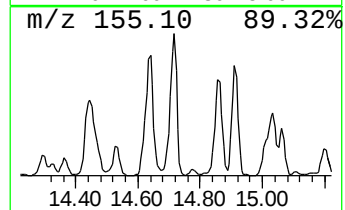
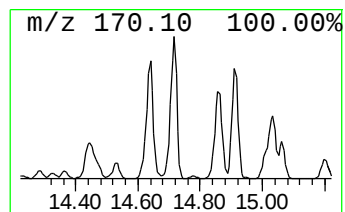
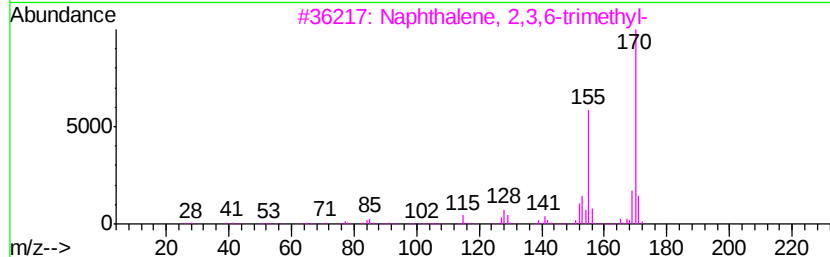
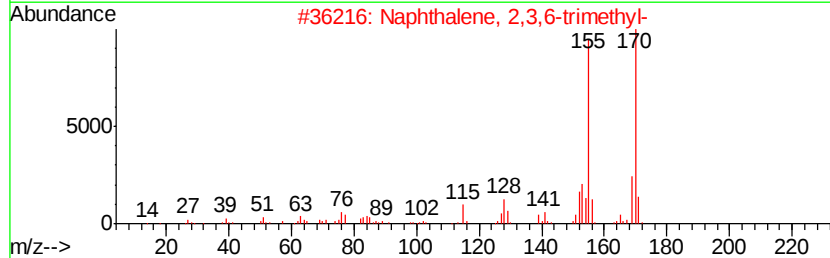
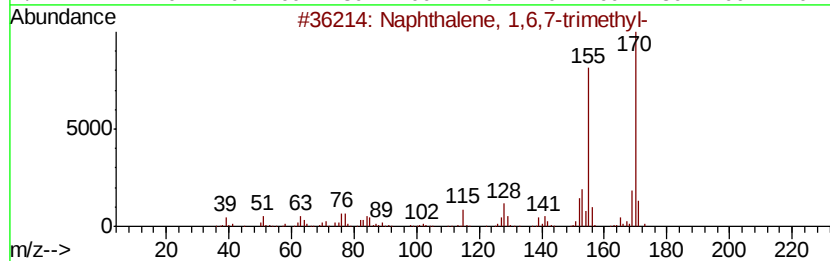
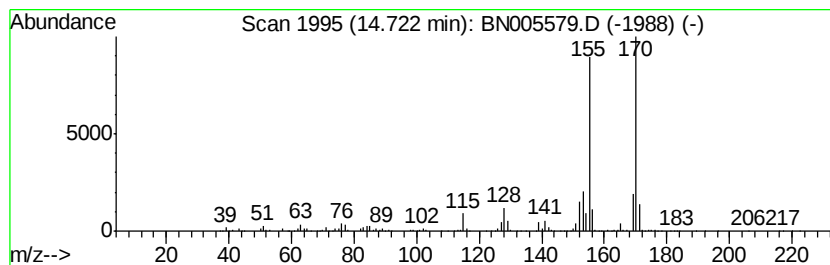
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 21 Naphthalene, 1,6,7-trimethyl- Concentration Rank 24

| R.T.  | EstConc     | Area    | Relative to ISTD | R.T.  |
|-------|-------------|---------|------------------|-------|
| 14.72 | 10.95 ng/ul | 4872740 | Acenaphthene-d10 | 14.23 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 97   |
| 2    |    | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 97   |
| 3    |    | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 97   |
| 4    |    | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 97   |
| 5    |    | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 96   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

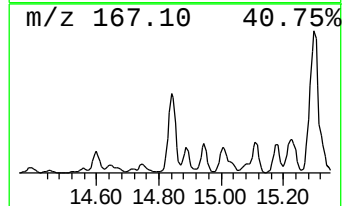
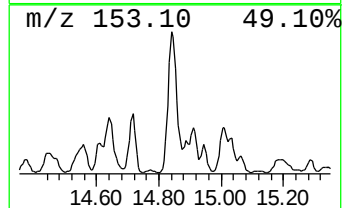
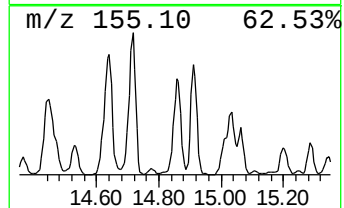
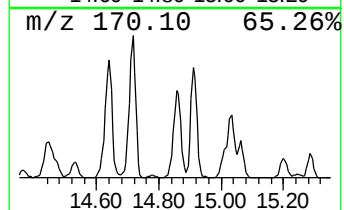
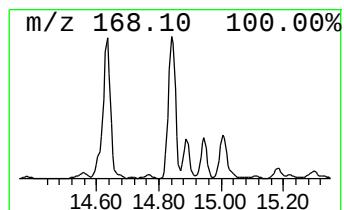
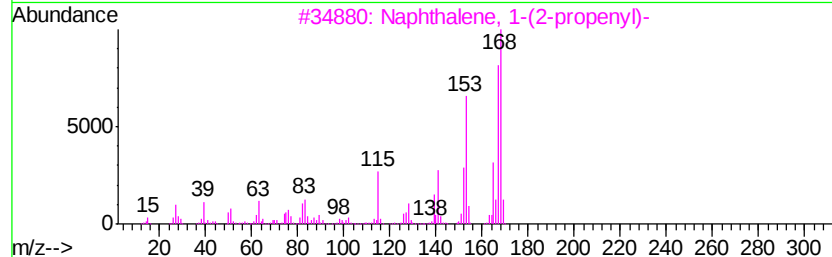
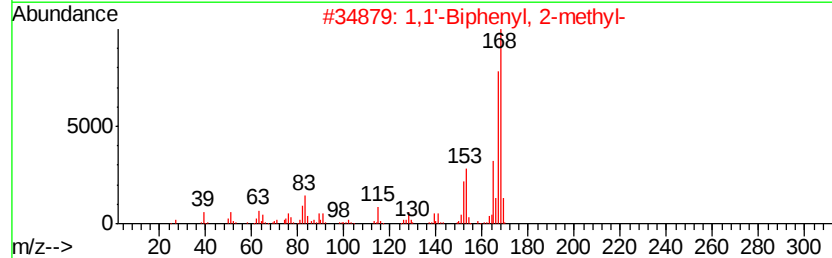
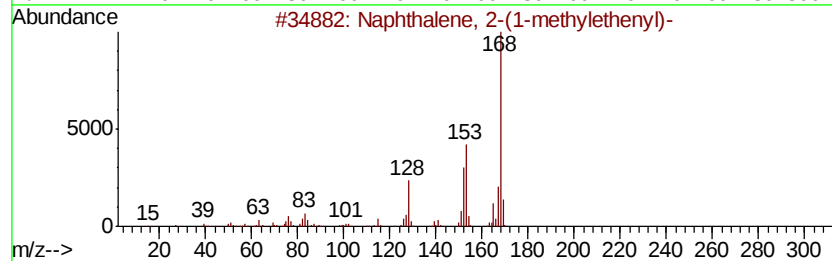
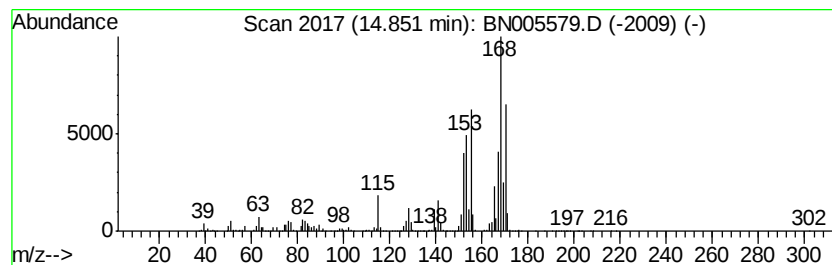
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 22 Naphthalene, 2-(1-methyleth... Concentration Rank 15

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 14.85 | 25.48 ng/ul | 11341400 | Acenaphthene-d10 | 14.23 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Naphthalene, 2-(1-methylethenyl)-   | 168 | C13H12   | 003710-23-4 | 52   |
| 2    |    | 1,1'-Biphenyl, 2-methyl-            | 168 | C13H12   | 000643-58-3 | 46   |
| 3    |    | Naphthalene, 1-(2-propenyl)-        | 168 | C13H12   | 002489-86-3 | 43   |
| 4    |    | 1,1'-Biphenyl, 3-methyl-            | 168 | C13H12   | 000643-93-6 | 43   |
| 5    |    | 2,4-Dimethoxy-5-pyrimidine carbo... | 168 | C7H8N2O3 | 052606-02-7 | 38   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

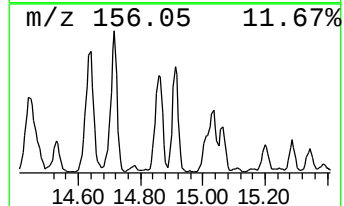
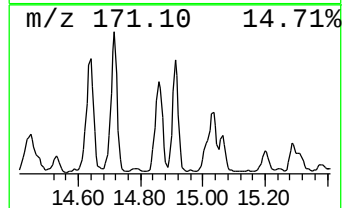
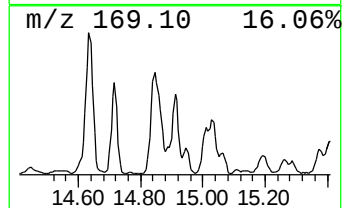
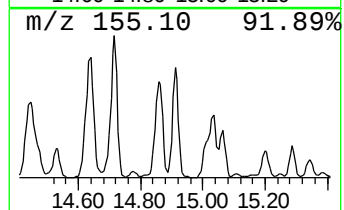
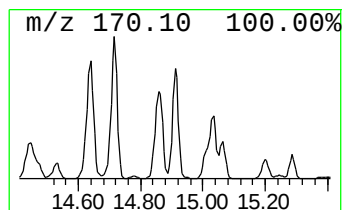
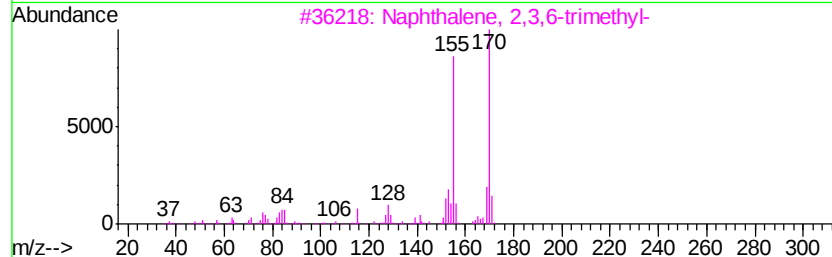
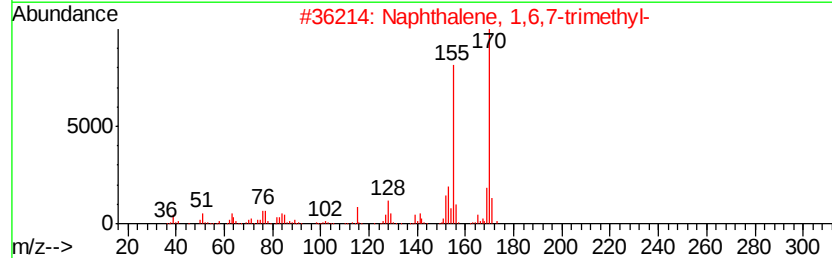
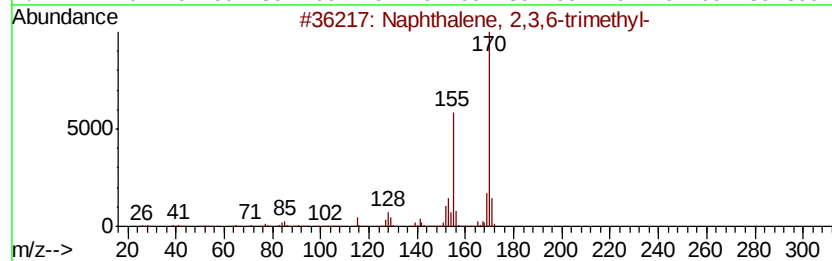
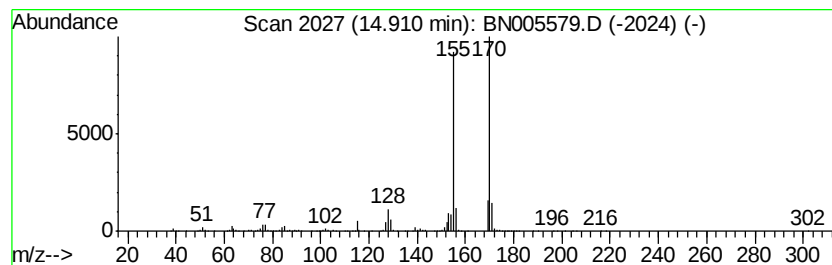
Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 23 Naphthalene, 2,3,6-trimethyl- Concentration Rank 33

| R.T.    | EstConc    | Area                          | Relative to ISTD | R.T.           |
|---------|------------|-------------------------------|------------------|----------------|
| 14.91   | 6.00 ng/ul | 2670950                       | Acenaphthene-d10 | 14.23          |
| Hit# of | 5          | Tentative ID                  | MW MolForm       | CAS# Qual      |
| 1       |            | Naphthalene, 2,3,6-trimethyl- | 170 C13H14       | 000829-26-5 91 |
| 2       |            | Naphthalene, 1,6,7-trimethyl- | 170 C13H14       | 002245-38-7 91 |
| 3       |            | Naphthalene, 2,3,6-trimethyl- | 170 C13H14       | 000829-26-5 91 |
| 4       |            | Naphthalene, 1,4,6-trimethyl- | 170 C13H14       | 002131-42-2 91 |
| 5       |            | Naphthalene, 2,3,6-trimethyl- | 170 C13H14       | 000829-26-5 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

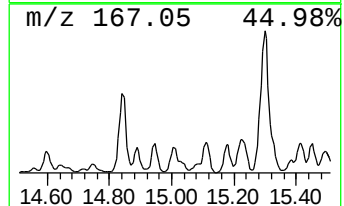
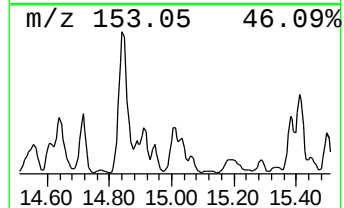
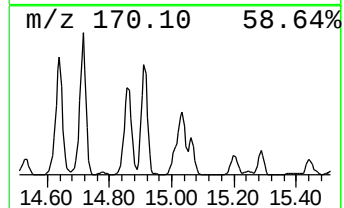
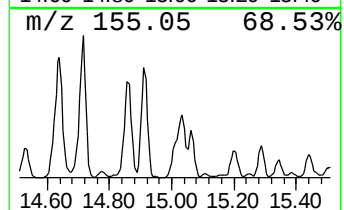
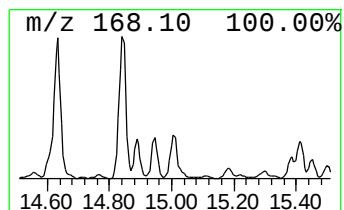
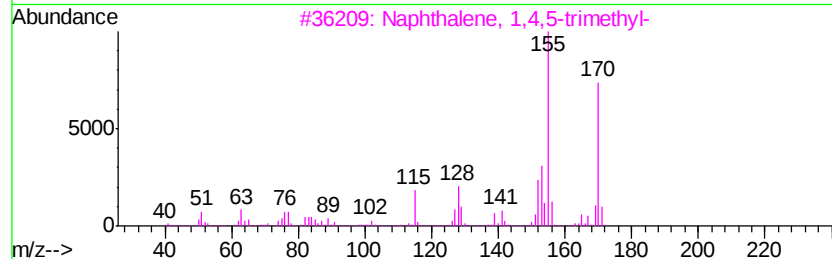
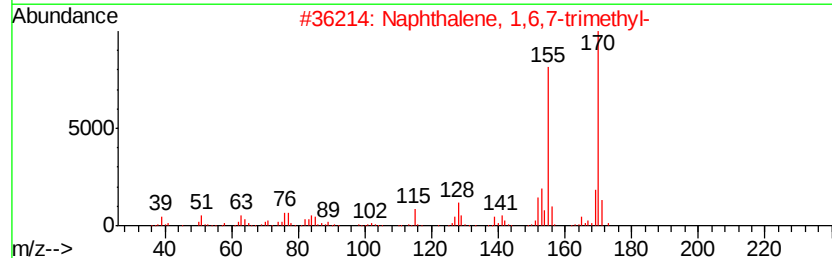
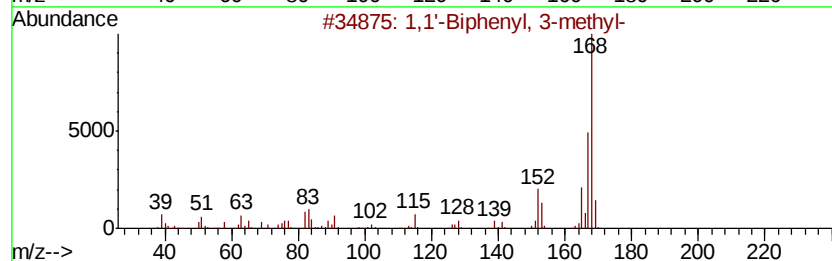
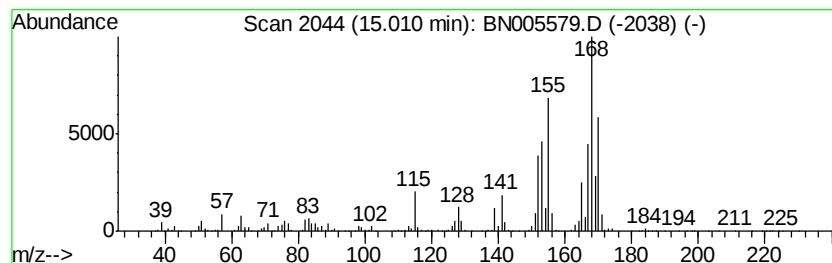
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 24 1,1'-Biphenyl, 3-methyl- Concentration Rank 29

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 15.01 | 7.65 ng/ul | 3403100 | Acenaphthene-d10 | 14.23 |

| Hit# | of | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------|-----|---------|-------------|------|
| 1    | 5  | 1,1'-Biphenyl, 3-methyl-      | 168 | C13H12  | 000643-93-6 | 50   |
| 2    |    | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 38   |
| 3    |    | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14  | 002131-41-1 | 38   |
| 4    |    | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 38   |
| 5    |    | 1,1'-Biphenyl, 2-methyl-      | 168 | C13H12  | 000643-58-3 | 38   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

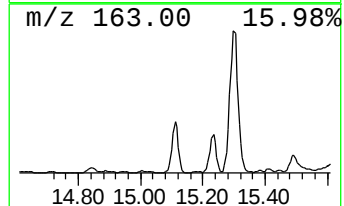
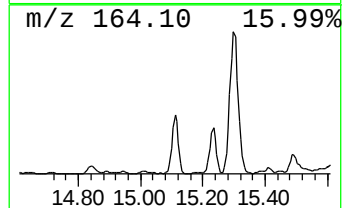
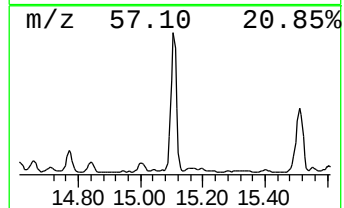
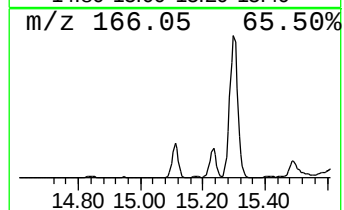
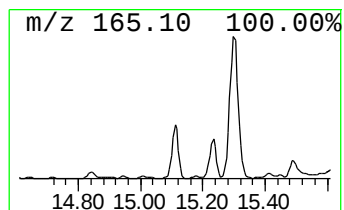
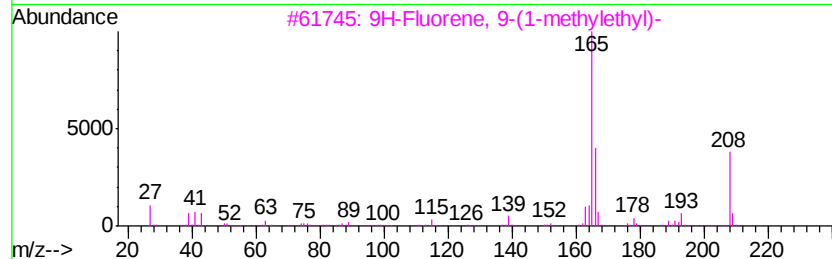
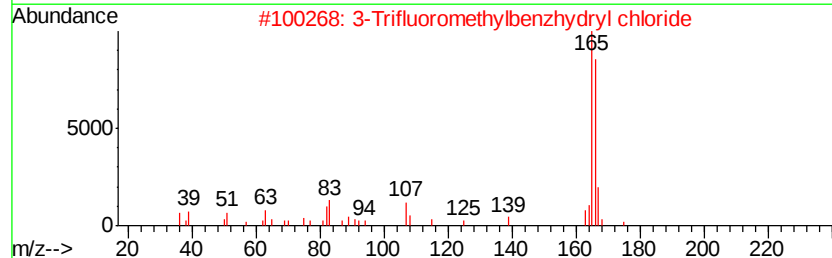
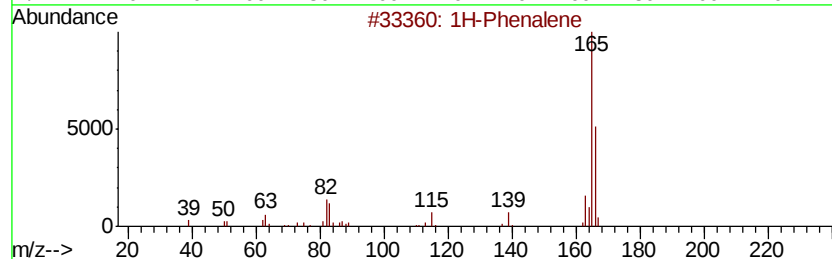
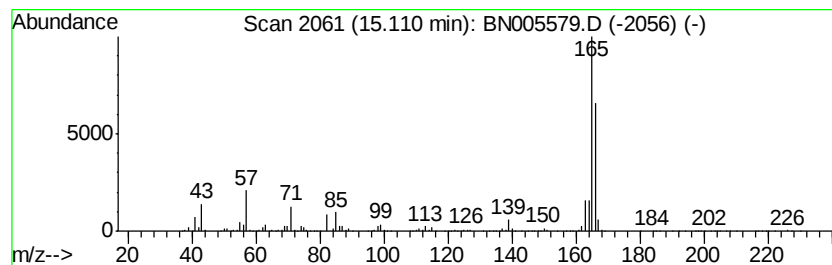
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 25 1H-Phenalene Concentration Rank 17

| R.T.  | EstConc     | Area     | Relative to ISTD | R.T.  |
|-------|-------------|----------|------------------|-------|
| 15.11 | 24.34 ng/ul | 10832600 | Acenaphthene-d10 | 14.23 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | 1H-Phenalene                        | 166 | C13H10     | 000203-80-5 | 64   |
| 2    |    | 3-Trifluoromethylbenzhvdrv1 chlo... | 270 | C14H10ClF3 | 067240-79-3 | 64   |
| 3    |    | 9H-Fluorene, 9-(1-methvlethvl)-     | 208 | C16H16     | 003299-99-8 | 59   |
| 4    |    | Fluorene-9-methanol                 | 196 | C14H12O    | 024324-17-2 | 50   |
| 5    |    | Benzaldehyde, 2,4-dihydroxy-3,6-... | 166 | C9H10O3    | 034883-14-2 | 50   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

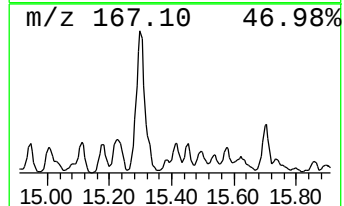
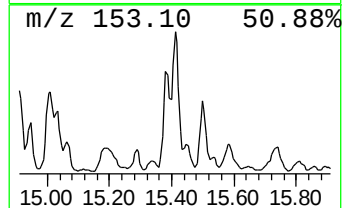
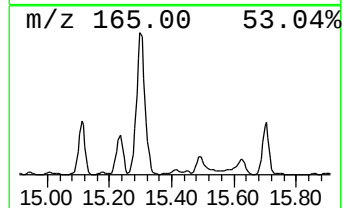
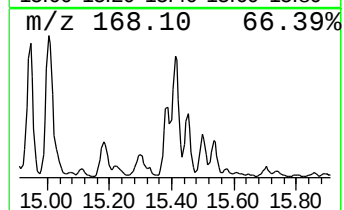
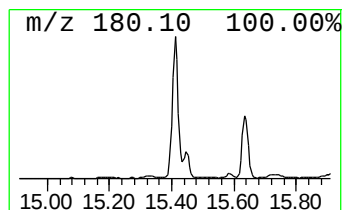
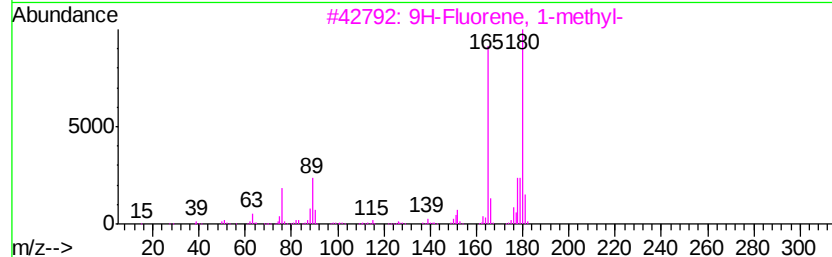
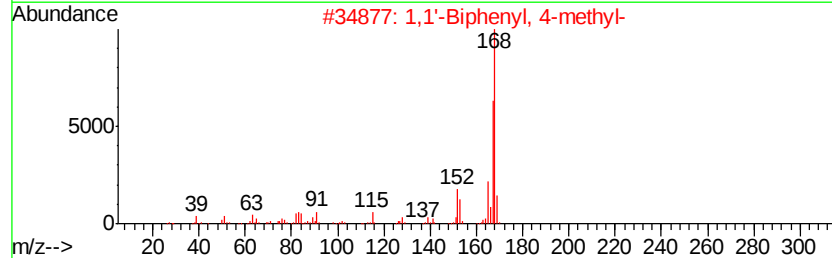
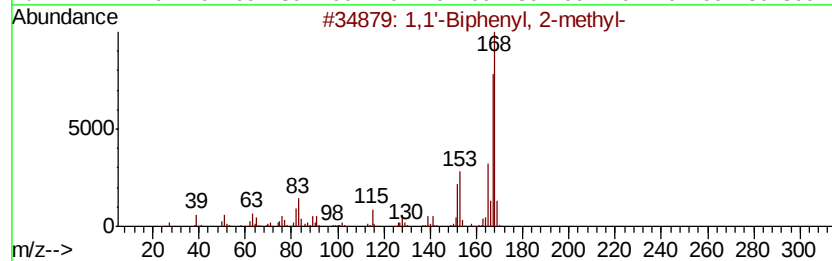
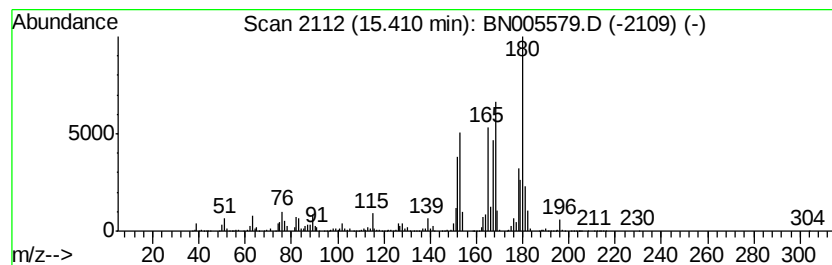
Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 26 1,1'-Biphenyl, 2-methyl- Concentration Rank 39

| R.T.      | EstConc                  | Area    | Relative to ISTD | R.T.        |      |
|-----------|--------------------------|---------|------------------|-------------|------|
| 15.41     | 4.38 ng/ul               | 1947940 | Acenaphthene-d10 | 14.23       |      |
| Hit# of 5 | Tentative ID             | MW      | MolForm          | CAS#        | Qual |
| 1         | 1,1'-Biphenyl, 2-methyl- | 168     | C13H12           | 000643-58-3 | 59   |
| 2         | 1,1'-Biphenyl, 4-methyl- | 168     | C13H12           | 000644-08-6 | 42   |
| 3         | 9H-Fluorene, 1-methyl-   | 180     | C14H12           | 001730-37-6 | 41   |
| 4         | 9H-Fluorene, 1-methyl-   | 180     | C14H12           | 001730-37-6 | 41   |
| 5         | 9H-Fluorene, 2-methyl-   | 180     | C14H12           | 001430-97-3 | 41   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

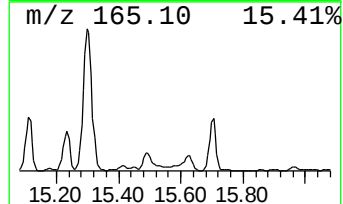
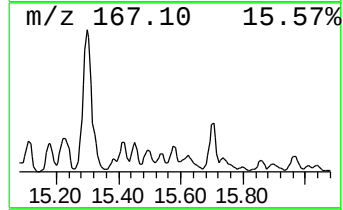
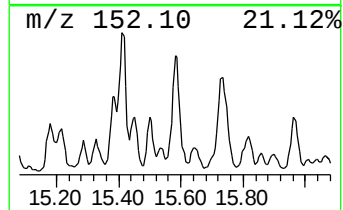
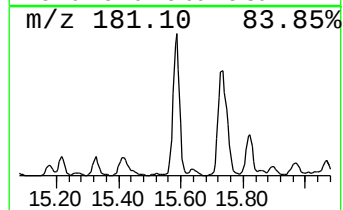
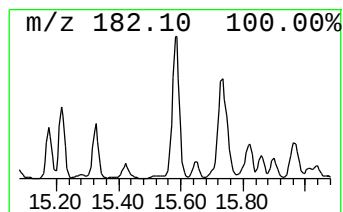
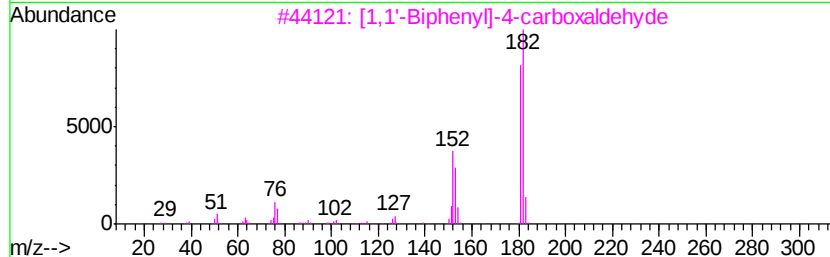
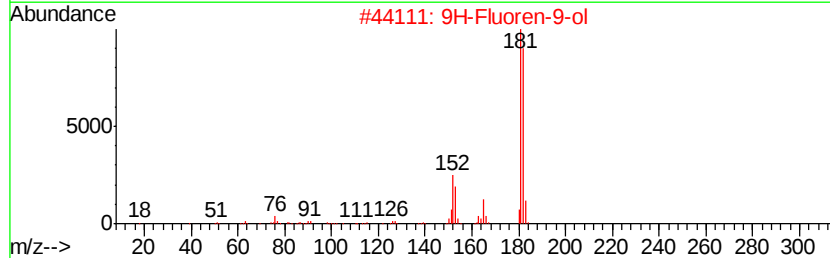
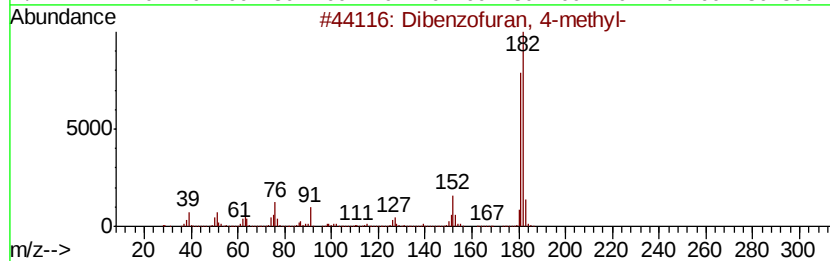
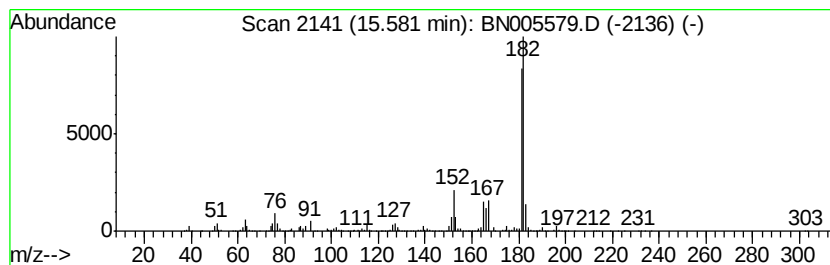
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 28 Dibenzofuran, 4-methyl- Concentration Rank 25

| R.T.  | EstConc    | Area    | Relative to ISTD | R.T.  |
|-------|------------|---------|------------------|-------|
| 15.58 | 9.05 ng/ul | 4027750 | Acenaphthene-d10 | 14.23 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Dibenzofuran, 4-methyl-             | 182 | C13H10O | 007320-53-8 | 87   |
| 2    |    |   | 9H-Fluoren-9-ol                     | 182 | C13H10O | 001689-64-1 | 80   |
| 3    |    |   | [1,1'-Biphenyl]-4-carboxaldehyde    | 182 | C13H10O | 003218-36-8 | 70   |
| 4    |    |   | Benzaldehyde, 4-hydroxy-3,5-dime... | 182 | C9H10O4 | 000134-96-3 | 64   |
| 5    |    |   | 2-Hydroxyfluorene                   | 182 | C13H10O | 002443-58-5 | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

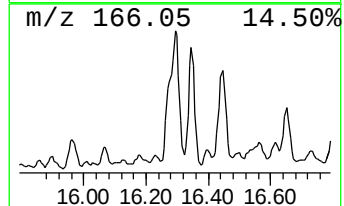
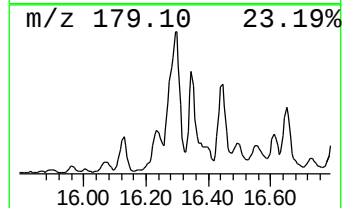
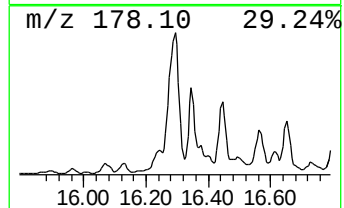
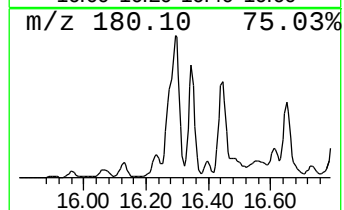
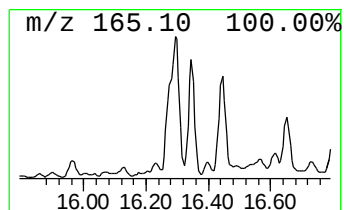
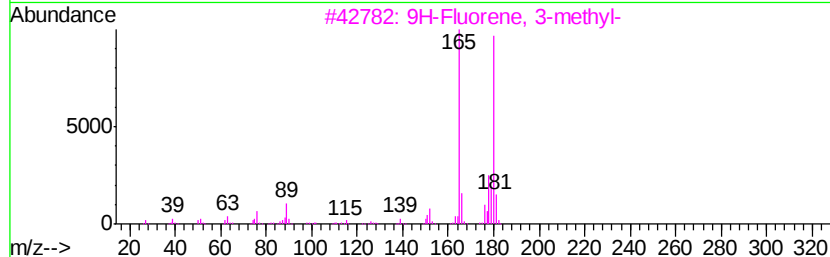
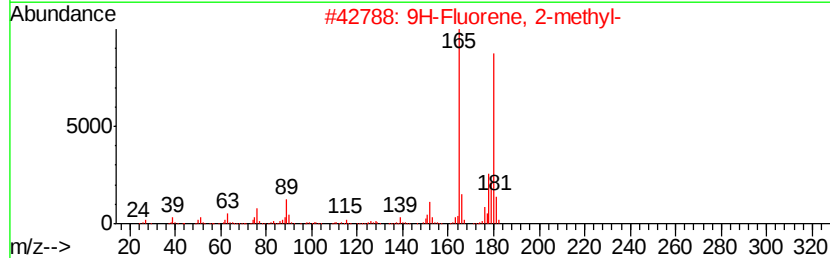
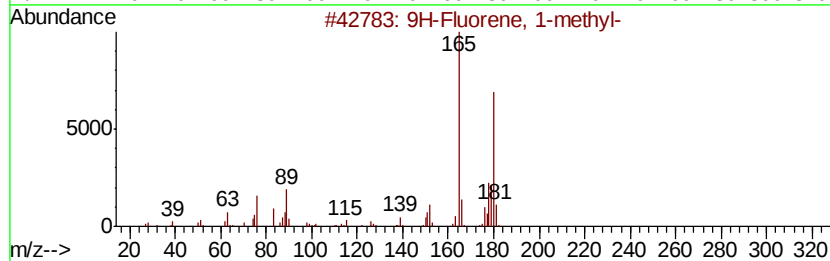
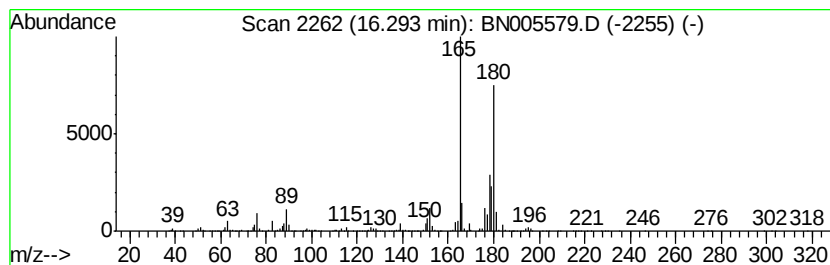
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 30 9H-Fluorene, 1-methyl- Concentration Rank 45

| R.T.  | EstConc    | Area     | Relative to ISTD | R.T.  |
|-------|------------|----------|------------------|-------|
| 16.29 | 2.62 ng/ul | 11011400 | Phenanthrene-d10 | 16.99 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | 9H-Fluorene, 1-methyl-    | 180 | C14H12  | 001730-37-6 | 96   |
| 2    |    | 9H-Fluorene, 2-methyl-    | 180 | C14H12  | 001430-97-3 | 96   |
| 3    |    | 9H-Fluorene, 3-methyl-    | 180 | C14H12  | 002523-39-9 | 93   |
| 4    |    | 4a,9a-Methano-9H-fluorene | 180 | C14H12  | 019540-84-2 | 93   |
| 5    |    | 9H-Fluorene, 1-methyl-    | 180 | C14H12  | 001730-37-6 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050919\  
Data File : BN005579.D  
Acq On : 09 May 2019 22:53  
Operator : JU/SJ  
Sample : K2604-20 20X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
GAJ91

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
Quant Title : SVOA CALIBRATION

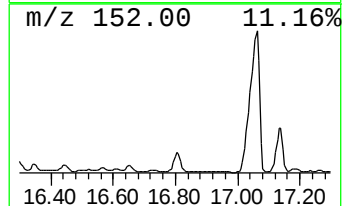
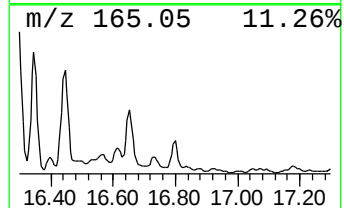
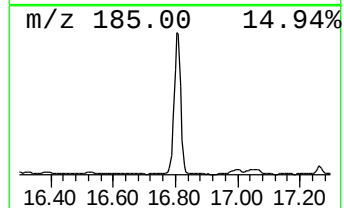
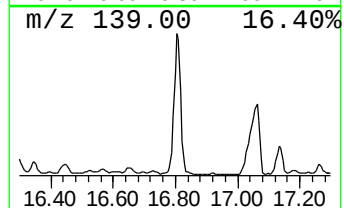
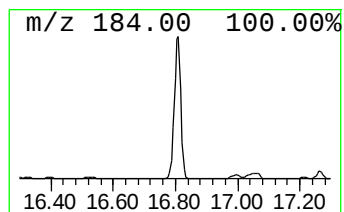
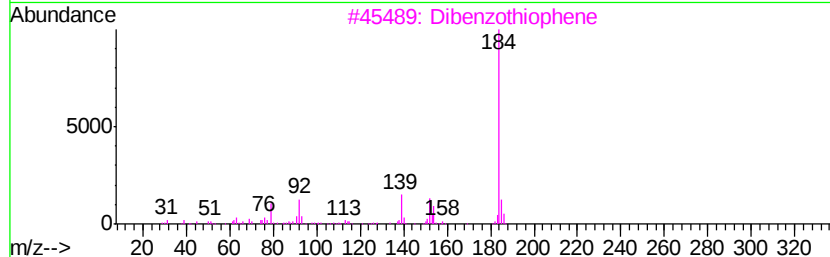
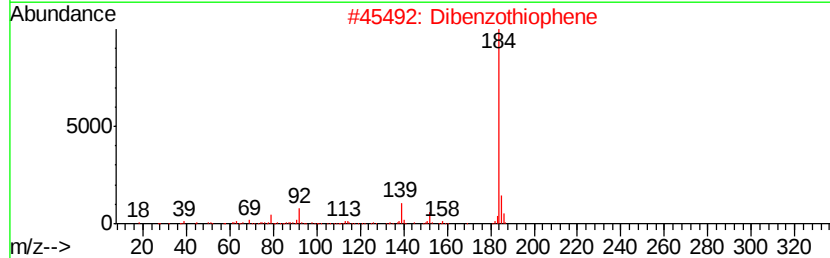
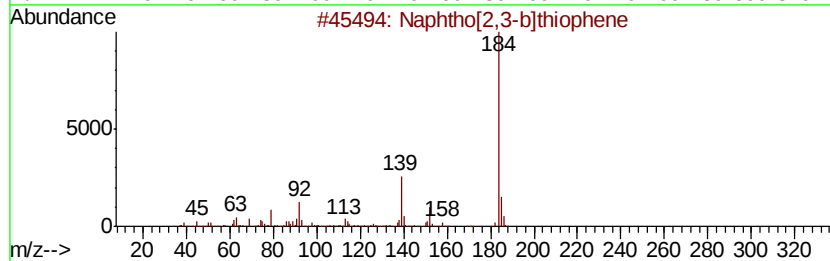
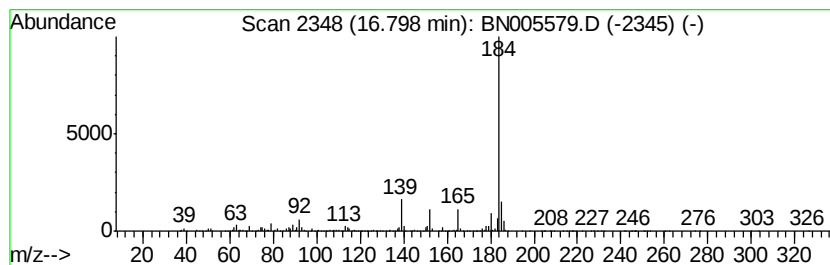
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 31 Naphtho[2,3-b]thiophene Concentration Rank 44

| R.T.  | EstConc    | Area     | Relative to ISTD | R.T.  |
|-------|------------|----------|------------------|-------|
| 16.80 | 2.73 ng/ul | 11454300 | Phenanthrene-d10 | 16.99 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphtho[2,3-b]thiophene | 184 | C12H8S  | 000268-77-9 | 95   |
| 2    |    | Dibenzothiophene        | 184 | C12H8S  | 000132-65-0 | 93   |
| 3    |    | Dibenzothiophene        | 184 | C12H8S  | 000132-65-0 | 93   |
| 4    |    | Dibenzothiophene        | 184 | C12H8S  | 000132-65-0 | 91   |
| 5    |    | Dibenzothiophene        | 184 | C12H8S  | 000132-65-0 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_N\DATA\BN050919\  
 Data File : BN005579.D  
 Acq On : 09 May 2019 22:53  
 Operator : JU/SJ  
 Sample : K2604-20 20X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 GAJ91

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_N\METHODS\SOM-EPA-BN041919MA.M  
 Quant Title : SVOA CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |          |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|----------|------|
|                      |       |         |       |          | #                     | RT    | Resp     | Conc |
| Bicyclo[4.2.0]oct... | 5.63  | 99.4    | ng/ul | 10499700 | 1                     | 7.59  | 2112200  | 20.0 |
| Benzene, 1-etheny... | 7.25  | 126.2   | ng/ul | 13326800 | 1                     | 7.59  | 2112200  | 20.0 |
| Benzene, 1-etheny... | 7.33  | 27.8    | ng/ul | 2934150  | 1                     | 7.59  | 2112200  | 20.0 |
| Benzene, 1,2,3-tr... | 7.70  | 20.0    | ng/ul | 2112200  | 1                     | 7.59  | 2112200  | 20.0 |
| Indene               | 8.13  | 272.0   | ng/ul | 28728900 | 1                     | 7.59  | 2112200  | 20.0 |
| Benzene, (2-methy... | 8.85  | 27.8    | ng/ul | 2932140  | 1                     | 7.59  | 2112200  | 20.0 |
| Benzene, 4-etheny... | 9.34  | 14.6    | ng/ul | 1958960  | 2                     | 10.37 | 2684330  | 20.0 |
| 1H-Indene, 1-methyl- | 9.79  | 80.9    | ng/ul | 10863700 | 2                     | 10.37 | 2684330  | 20.0 |
| 2-Methylindene       | 9.86  | 53.9    | ng/ul | 7230460  | 2                     | 10.37 | 2684330  | 20.0 |
| 1H-Indene, 1,3-di... | 11.39 | 21.3    | ng/ul | 2862980  | 2                     | 10.37 | 2684330  | 20.0 |
| (DEL) Alkane: Str... | 11.81 | 24.7    | ng/ul | 3312260  | 2                     | 10.37 | 2684330  | 20.0 |
| Naphthalene, 1-me... | 12.28 | 420.9   | ng/ul | 56484300 | 2                     | 10.37 | 2684330  | 20.0 |
| Naphthalene, 2-et... | 13.25 | 16.8    | ng/ul | 7474670  | 3                     | 14.23 | 8900570  | 20.0 |
| Naphthalene, 1,5-... | 13.39 | 35.5    | ng/ul | 15809800 | 3                     | 14.23 | 8900570  | 20.0 |
| Naphthalene, 2,3-... | 13.56 | 62.8    | ng/ul | 27964000 | 3                     | 14.23 | 8900570  | 20.0 |
| Naphthalene, 1,7-... | 13.79 | 27.2    | ng/ul | 12104400 | 3                     | 14.23 | 8900570  | 20.0 |
| (DEL) Alkane: Str... | 14.15 | 7.8     | ng/ul | 3464070  | 3                     | 14.23 | 8900570  | 20.0 |
| Naphthalene, 1,6,... | 14.72 | 10.9    | ng/ul | 4872740  | 3                     | 14.23 | 8900570  | 20.0 |
| Naphthalene, 2-(1... | 14.85 | 25.5    | ng/ul | 11341400 | 3                     | 14.23 | 8900570  | 20.0 |
| Naphthalene, 2,3,... | 14.91 | 6.0     | ng/ul | 2670950  | 3                     | 14.23 | 8900570  | 20.0 |
| 1,1'-Biphenyl, 3-... | 15.01 | 7.7     | ng/ul | 3403100  | 3                     | 14.23 | 8900570  | 20.0 |
| 1H-Phenalene         | 15.11 | 24.3    | ng/ul | 10832600 | 3                     | 14.23 | 8900570  | 20.0 |
| 1,1'-Biphenyl, 2-... | 15.41 | 4.4     | ng/ul | 1947940  | 3                     | 14.23 | 8900570  | 20.0 |
| Dibenzofuran, 4-m... | 15.58 | 9.1     | ng/ul | 4027750  | 3                     | 14.23 | 8900570  | 20.0 |
| 9H-Fluorene, 1-me... | 16.29 | 2.6     | ng/ul | 11011400 | 4                     | 16.99 | 83924700 | 20.0 |
| Naphtho[2,3-b]thi... | 16.80 | 2.7     | ng/ul | 11454300 | 4                     | 16.99 | 83924700 | 20.0 |