

Data File : VR026626.D  
Acq On : 12 Sep 2019 18:36  
Operator : SY/MD  
Sample : VSTD00565  
Misc : 25mL/MSVOA\_R/WATER  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00565

Quant Time: Sep 13 04:59:25 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_R\METHODS\SOMRTR091219WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Sep 13 04:55:35 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 8.48  | 114  | 431219   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 11.30 | 117  | 326798   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 13.24 | 152  | 153994   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |       |     |        |       |      |      |
|--------------------------------|-------|-----|--------|-------|------|------|
| 4) Vinyl Chloride-d3           | 2.18  | 65  | 51567  | 4.00  | ug/L | 0.00 |
| 7) Chloroethane-d5             | 2.63  | 69  | 48461  | 4.38  | ug/L | 0.00 |
| 11) 1,1-Dichloroethene-d2      | 3.64  | 63  | 152187 | 4.85  | ug/L | 0.00 |
| 20) 2-Butanone-d5              | 6.62  | 46  | 126108 | 44.42 | ug/L | 0.00 |
| 24) Chloroform-d               | 7.23  | 84  | 215756 | 4.71  | ug/L | 0.00 |
| 26) 1,2-Dichloroethane-d4      | 7.91  | 65  | 66240  | 4.47  | ug/L | 0.00 |
| 32) Benzene-d6                 | 7.88  | 84  | 413693 | 4.54  | ug/L | 0.00 |
| 36) 1,2-Dichloropropane-d6     | 8.92  | 67  | 109326 | 4.44  | ug/L | 0.00 |
| 41) Toluene-d8                 | 9.99  | 98  | 320362 | 4.66  | ug/L | 0.00 |
| 43) trans-1,3-Dichloropropene- | 10.25 | 79  | 23824  | 4.08  | ug/L | 0.00 |
| 46) 2-Hexanone-d5              | 10.60 | 63  | 87561  | 48.91 | ug/L | 0.00 |
| 57) 1,1,2,2-Tetrachloroethane- | 12.38 | 84  | 56804  | 4.82  | ug/L | 0.00 |
| 64) 1,2-Dichlorobenzene-d4     | 13.53 | 152 | 90669  | 4.57  | ug/L | 0.00 |

#### Target Compounds

|                                |      |     |        |             | Qvalue |
|--------------------------------|------|-----|--------|-------------|--------|
| 2) Dichlorodifluoromethane     | 1.86 | 85  | 221425 | 5.101 ug/L  | 100    |
| 3) Chloromethane               | 2.06 | 50  | 112605 | 4.367 ug/L  | 100    |
| 5) Vinyl chloride              | 2.19 | 62  | 114826 | 4.697 ug/L  | 100    |
| 6) Bromomethane                | 2.53 | 94  | 70790  | 5.045 ug/L  | 100    |
| 8) Chloroethane                | 2.66 | 64  | 65561  | 4.746 ug/L  | 100    |
| 9) Trichlorofluoromethane      | 2.97 | 101 | 206395 | 5.451 ug/L  | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 3.69 | 101 | 89442  | 5.441 ug/L  | 100    |
| 12) 1,1-Dichloroethene         | 3.64 | 96  | 87634  | 5.155 ug/L  | 100    |
| 13) Acetone                    | 3.73 | 43  | 85749  | 48.074 ug/L | 100    |
| 14) Carbon disulfide           | 3.97 | 76  | 381368 | 5.836 ug/L  | 100    |
| 15) Methyl Acetate             | 4.22 | 43  | 36219  | 4.596 ug/L  | 100    |
| 16) Methylene chloride         | 4.43 | 84  | 170841 | 4.783 ug/L  | 100    |
| 17) Methyl tert-butyl Ether    | 4.93 | 73  | 210773 | 4.955 ug/L  | 100    |
| 18) trans-1,2-Dichloroethene   | 4.92 | 96  | 193155 | 5.261 ug/L  | 100    |
| 19) 1,1-Dichloroethane         | 5.72 | 63  | 351693 | 5.025 ug/L  | 100    |
| 21) 2-Butanone                 | 6.72 | 43  | 180423 | 49.276 ug/L | 100    |
| 22) cis-1,2-Dichloroethene     | 6.70 | 96  | 187959 | 5.188 ug/L  | 100    |
| 23) Bromochloromethane         | 7.08 | 128 | 51155  | 5.236 ug/L  | 100    |
| 25) Chloroform                 | 7.25 | 83  | 316339 | 4.927 ug/L  | 100    |
| 27) 1,2-Dichloroethane         | 8.02 | 62  | 116878 | 4.995 ug/L  | 100    |
| 29) 1,1,1-Trichloroethane      | 7.46 | 97  | 269169 | 5.367 ug/L  | 100    |
| 30) Cyclohexane                | 7.54 | 56  | 309532 | 5.305 ug/L  | 100    |
| 31) Carbon tetrachloride       | 7.66 | 117 | 223330 | 5.372 ug/L  | 100    |
| 33) Benzene                    | 7.93 | 78  | 738887 | 5.089 ug/L  | 100    |
| 34) Trichloroethene            | 8.73 | 95  | 184978 | 5.147 ug/L  | 100    |
| 35) Methylcyclohexane          | 8.97 | 83  | 301385 | 5.554 ug/L  | 100    |
| 37) 1,2-Dichloropropane        | 9.02 | 63  | 146515 | 5.054 ug/L  | 100    |
| 38) Bromodichloromethane       | 9.30 | 83  | 153339 | 5.113 ug/L  | 100    |
| 39) cis-1,3-Dichloropropene    | 9.74 | 75  | 162254 | 5.156 ug/L  | 100    |
| 40) 4-Methyl-2-pentanone       | 9.88 | 43  | 410608 | 50.452 ug/L | 100    |

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Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Sep 13 04:55:35 2019  
Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 42) Toluene                    | 10.05 | 91   | 694488   | 5.342  | ug/L  | 100      |
| 44) trans-1,3-Dichloropropene  | 10.28 | 75   | 100465   | 5.153  | ug/L  | 100      |
| 45) 1,1,2-Trichloroethane      | 10.46 | 97   | 62181    | 5.118  | ug/L  | 100      |
| 47) Tetrachloroethene          | 10.53 | 164  | 106697   | 5.266  | ug/L  | 100      |
| 48) 2-Hexanone                 | 10.65 | 43   | 255223   | 51.857 | ug/L  | 100      |
| 49) Dibromochloromethane       | 10.80 | 129  | 66693    | 5.219  | ug/L  | 100      |
| 50) 1,2-Dibromoethane          | 10.90 | 107  | 51927    | 5.092  | ug/L  | 100      |
| 51) Chlorobenzene              | 11.33 | 112  | 365353   | 5.197  | ug/L  | 100      |
| 52) Ethylbenzene               | 11.41 | 91   | 780780   | 5.460  | ug/L  | 100      |
| 53) m,p-Xylene                 | 11.52 | 106  | 280181   | 5.363  | ug/L  | 100      |
| 54) o-Xylene                   | 11.84 | 106  | 274926   | 5.385  | ug/L  | 100      |
| 55) Styrene                    | 11.86 | 104  | 396664   | 5.593  | ug/L  | 100      |
| 56) Isopropylbenzene           | 12.15 | 105  | 798125   | 5.627  | ug/L  | 100      |
| 58) 1,1,2,2-Tetrachloroethane  | 12.40 | 83   | 70318    | 5.096  | ug/L  | 100      |
| 59) 1,2,3-Trichloropropane     | 12.45 | 75   | 51182    | 5.065  | ug/L  | 100      |
| 61) Bromoform                  | 12.03 | 173  | 26817    | 4.776  | ug/L  | 100      |
| 62) 1,3-Dichlorobenzene        | 13.18 | 146  | 270758   | 5.162  | ug/L  | 100      |
| 63) 1,4-Dichlorobenzene        | 13.26 | 146  | 253630   | 5.028  | ug/L  | 100      |
| 65) 1,2-Dichlorobenzene        | 13.55 | 146  | 223914   | 5.146  | ug/L  | 100      |
| 66) 1,2-Dibromo-3-chloropropan | 14.16 | 75   | 9266     | 4.218  | ug/L  | 100      |
| 67) 1,3,5-Trichlorobenzene     | 14.31 | 180  | 217122   | 5.143  | ug/L  | 100      |
| 68) 1,2,4-trichlorobenzene     | 14.80 | 180  | 154875   | 5.026  | ug/L  | 100      |
| 69) Naphthalene                | 15.02 | 128  | 210260   | 4.925  | ug/L  | 100      |
| 70) 1,2,3-Trichlorobenzene     | 15.20 | 180  | 131303   | 5.097  | ug/L  | 100      |

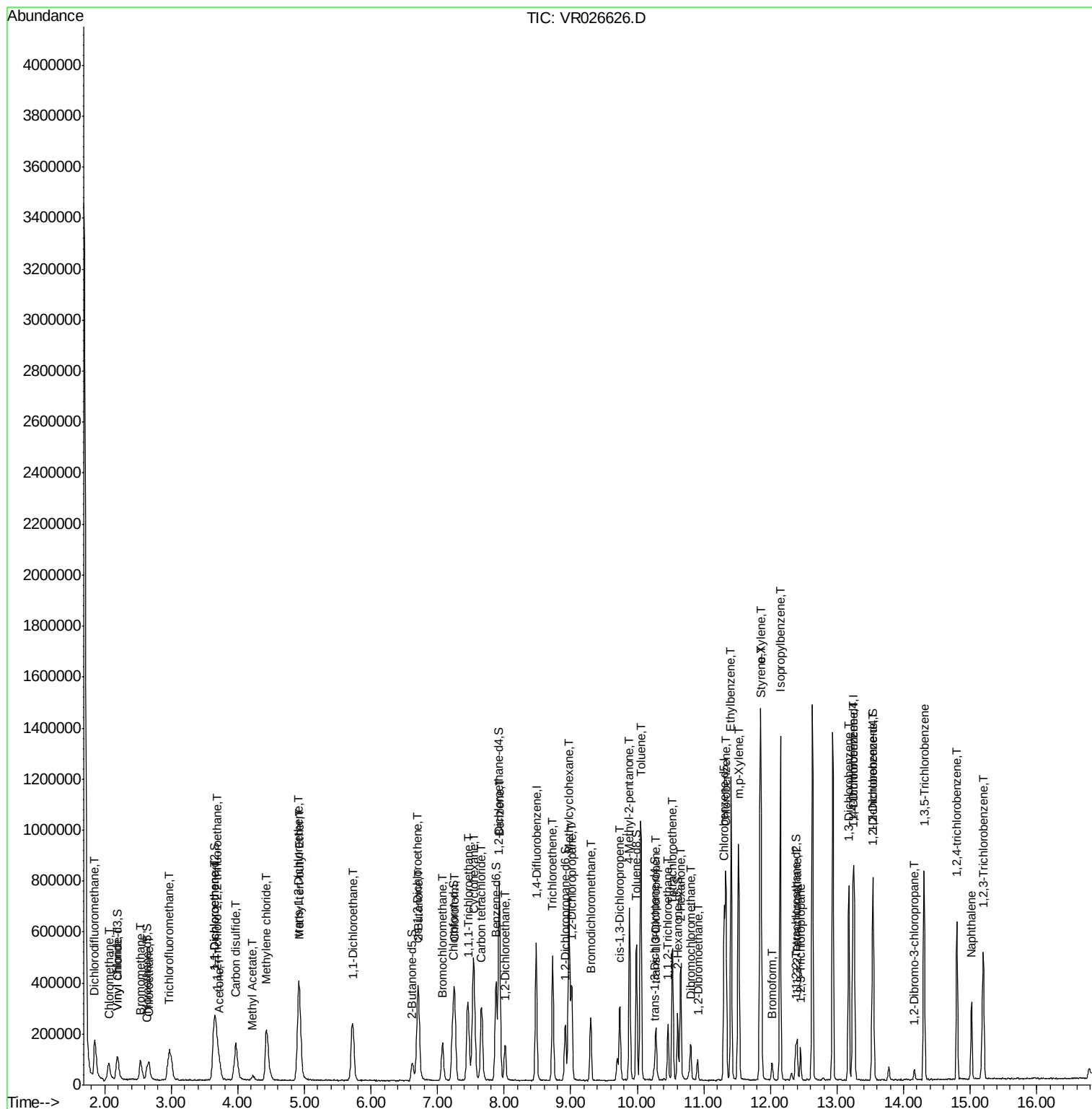
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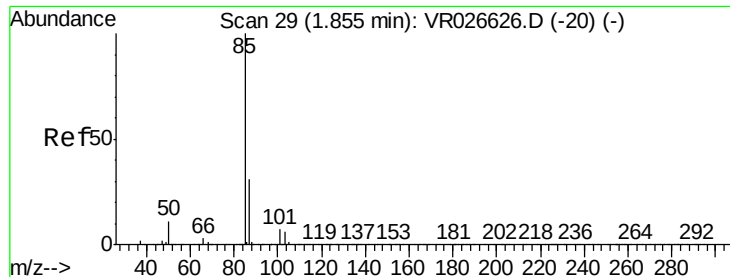
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#2

Dichlorodifluoromethane

Concen: 5.101 ug/L

RT: 1.86 min Scan# 29

Delta R.T. 0.00 min

Lab File: VR026626.D

Acq: 12 Sep 2019 18:36

Instrument :

MSVOA\_R

ClientSampleId :

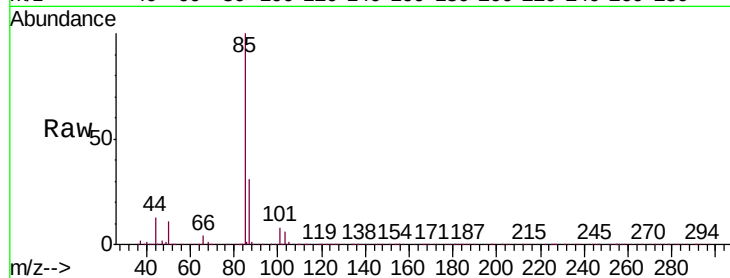
VSTD00565

Tgt Ion: 85 Resp: 221425

Ion Ratio Lower Upper

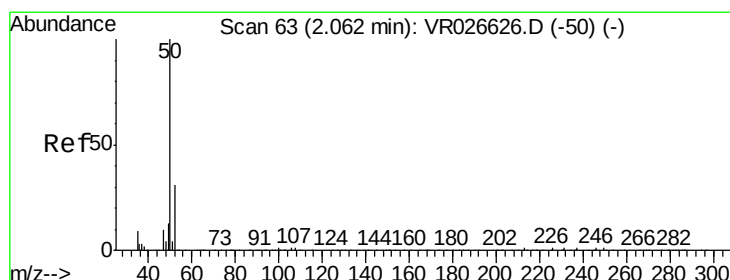
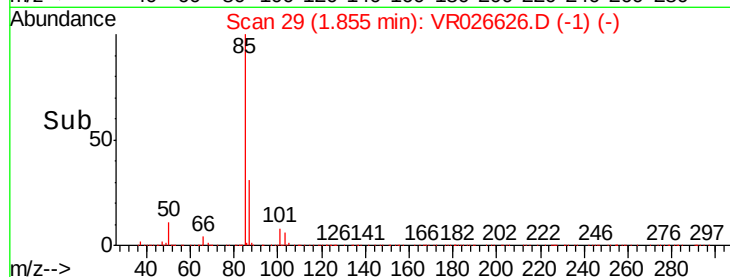
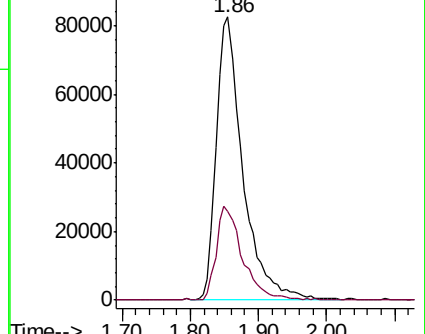
85 100

87 32.5 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VR0

Ion 87.00 (86.70 to 87.70): VR0



#3

Chloromethane

Concen: 4.367 ug/L

RT: 2.06 min Scan# 63

Delta R.T. 0.00 min

Lab File: VR026626.D

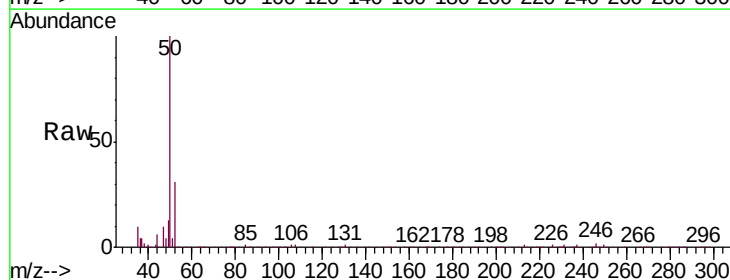
Acq: 12 Sep 2019 18:36

Tgt Ion: 50 Resp: 112605

Ion Ratio Lower Upper

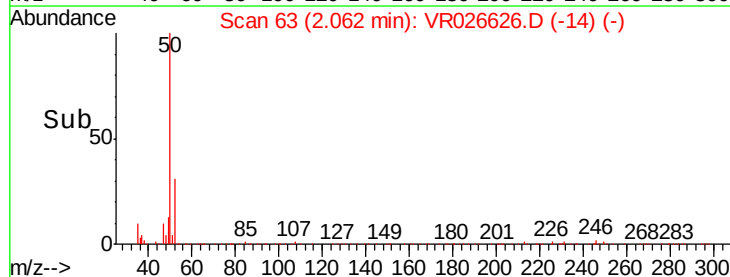
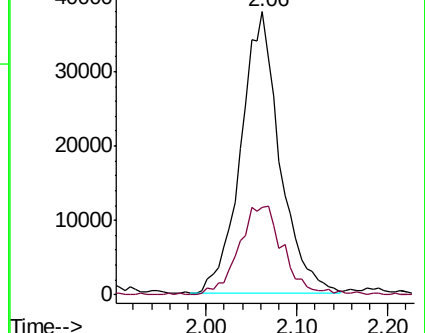
50 100

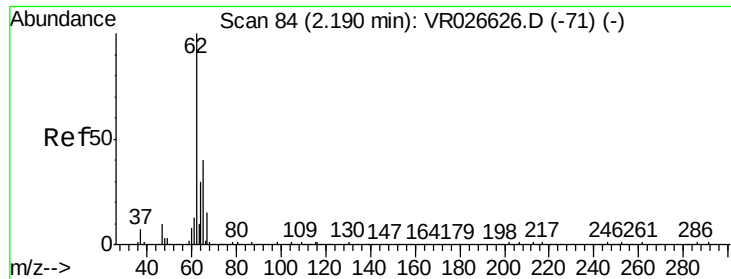
52 31.0 21.7 40.3



Abundance Ion 50.05 (49.75 to 50.75): VR0

Ion 52.05 (51.75 to 52.75): VR0





#5

Vinyl chloride

Concen: 4.697 ug/L

RT: 2.19 min Scan# 84

Delta R.T. 0.00 min

Lab File: VR026626.D

Acq: 12 Sep 2019 18:36

Instrument :

MSVOA\_R

ClientSampleId :

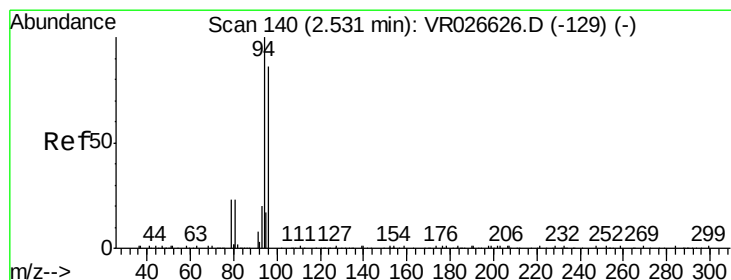
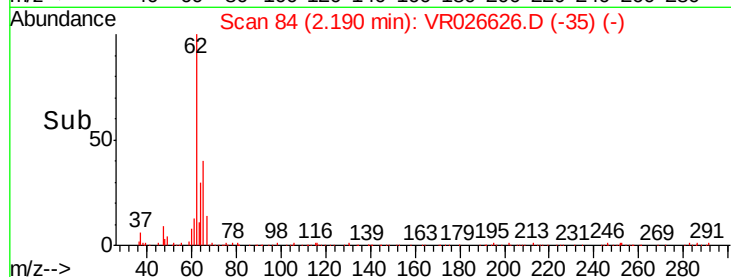
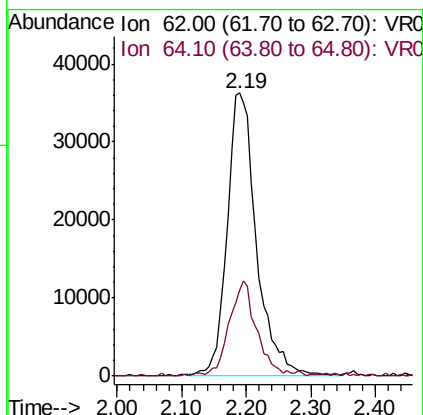
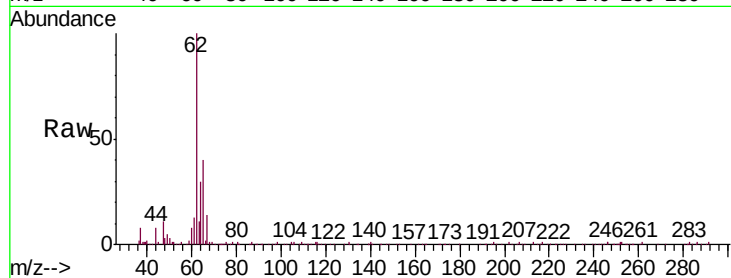
VSTD00565

Tgt Ion: 62 Resp: 114826

Ion Ratio Lower Upper

62 100

64 30.3 21.2 39.4



#6

Bromomethane

Concen: 5.045 ug/L

RT: 2.53 min Scan# 140

Delta R.T. 0.00 min

Lab File: VR026626.D

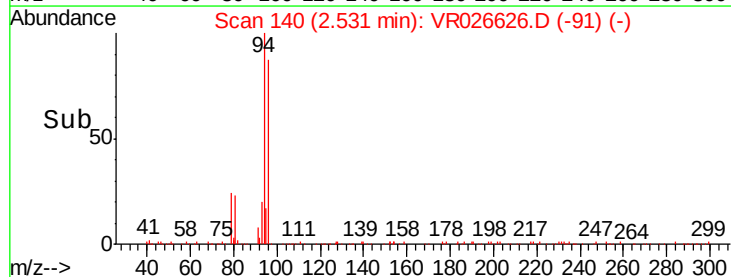
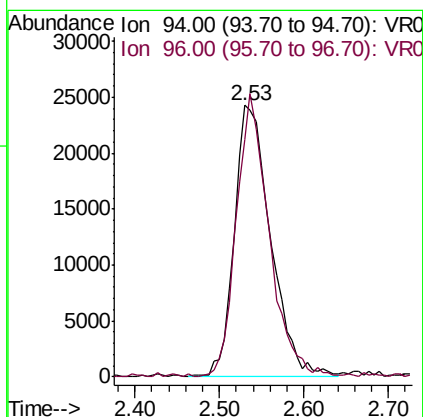
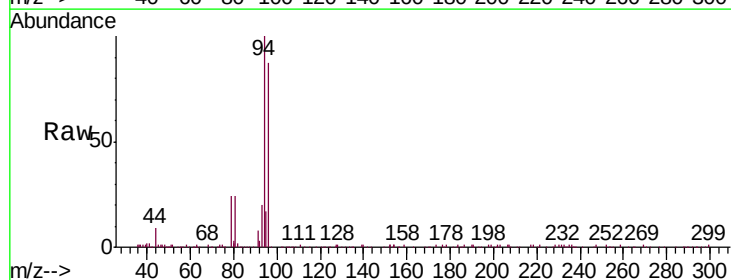
Acq: 12 Sep 2019 18:36

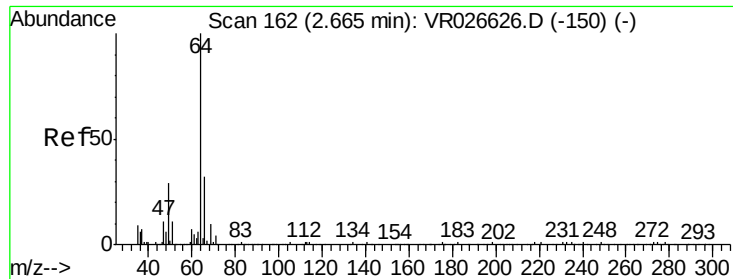
Tgt Ion: 94 Resp: 70790

Ion Ratio Lower Upper

94 100

96 87.2 61.0 113.4

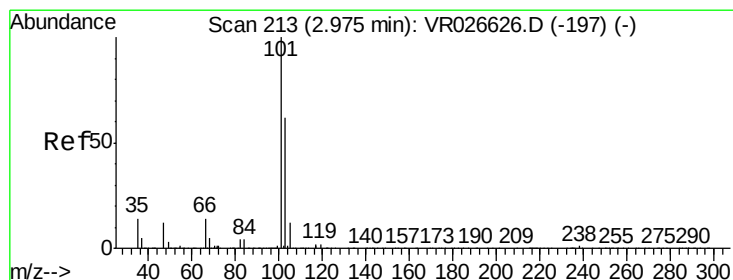
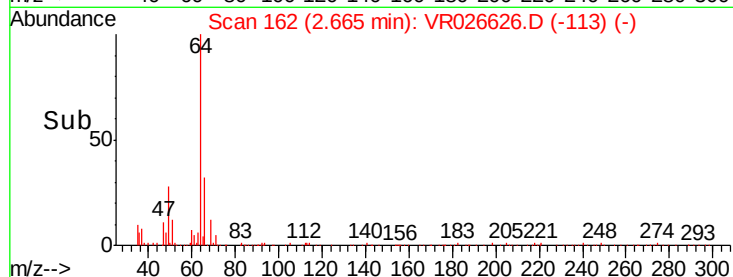
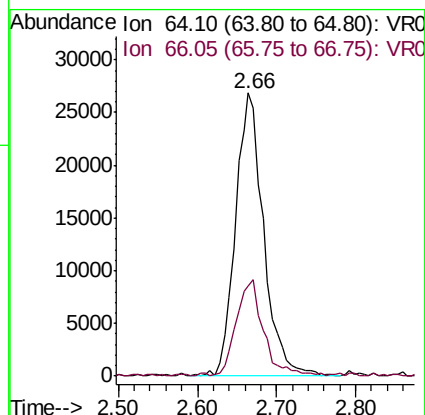
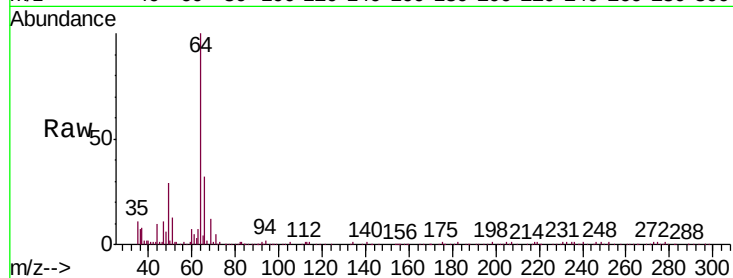




#8  
Chloroethane  
Concen: 4.746 ug/L  
RT: 2.66 min Scan# 162  
Delta R.T. 0.00 min  
Lab File: VR026626.D  
Acq: 12 Sep 2019 18:36

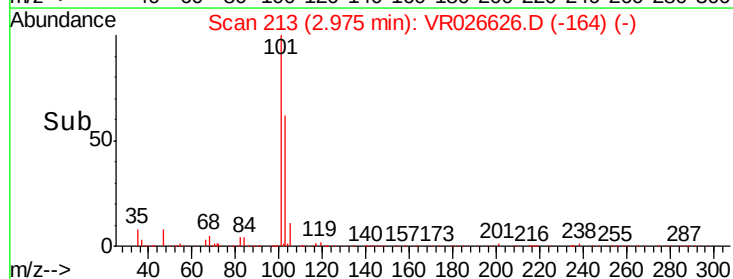
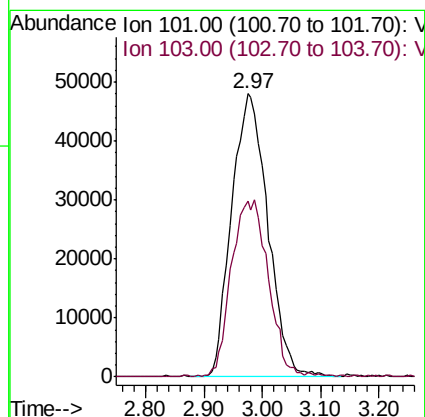
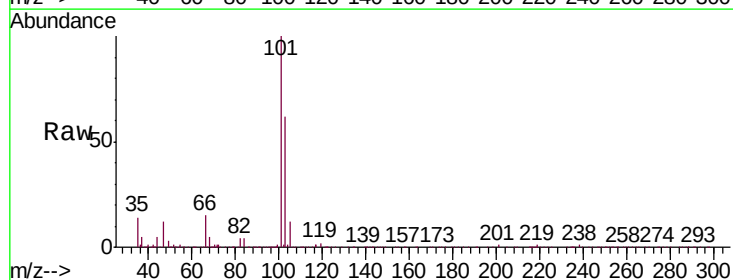
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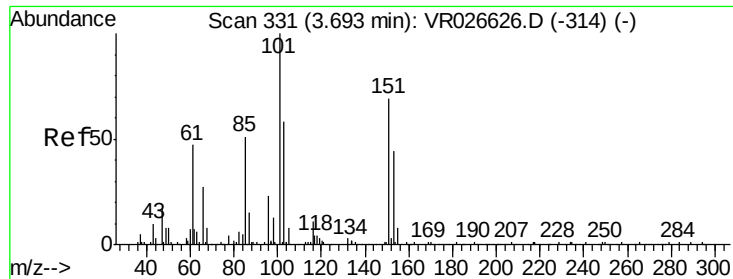
Tgt Ion: 64 Resp: 65561  
Ion Ratio Lower Upper  
64 100  
66 31.8 22.3 41.3



#9  
Trichlorofluoromethane  
Concen: 5.451 ug/L  
RT: 2.97 min Scan# 213  
Delta R.T. 0.00 min  
Lab File: VR026626.D  
Acq: 12 Sep 2019 18:36

Tgt Ion: 101 Resp: 206395  
Ion Ratio Lower Upper  
101 100  
103 63.6 50.9 76.3





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 5.441 ug/L

RT: 3.69 min Scan# 331

Delta R.T. 0.00 min

Lab File: VR026626.D

Acq: 12 Sep 2019 18:36

Instrument :

MSVOA\_R

ClientSampleId :

VSTD00565

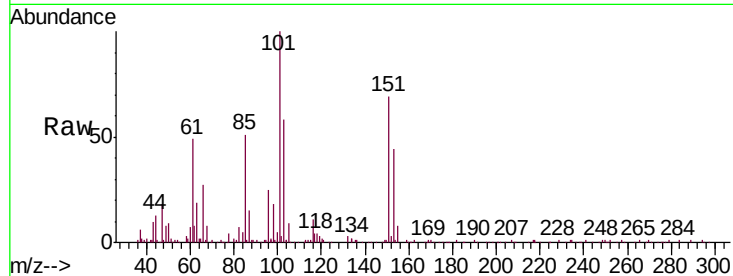
Tgt Ion: 101 Resp: 89442

Ion Ratio Lower Upper

101 100

85 49.6 39.7 59.5

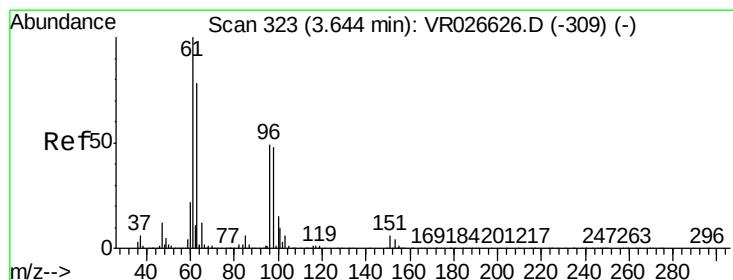
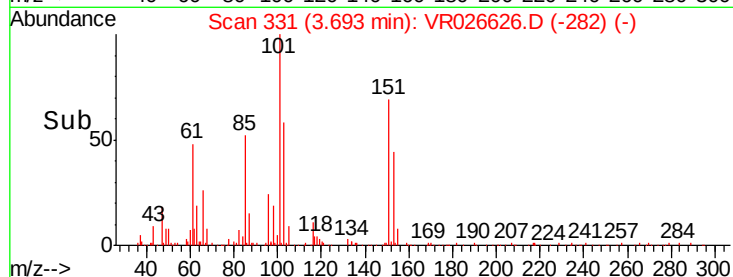
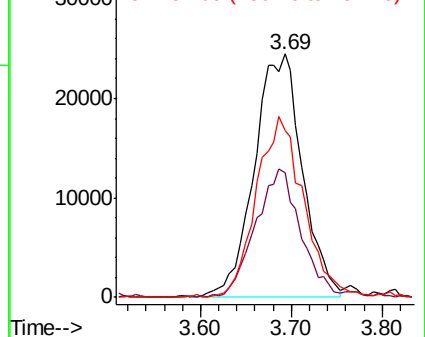
151 73.0 58.4 87.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VR0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.155 ug/L

RT: 3.64 min Scan# 323

Delta R.T. 0.00 min

Lab File: VR026626.D

Acq: 12 Sep 2019 18:36

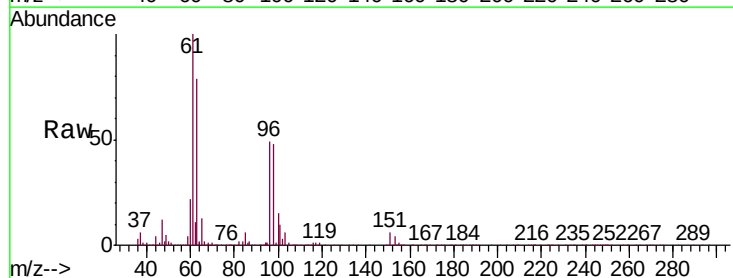
Tgt Ion: 96 Resp: 87634

Ion Ratio Lower Upper

96 100

61 204.7 143.3 266.1

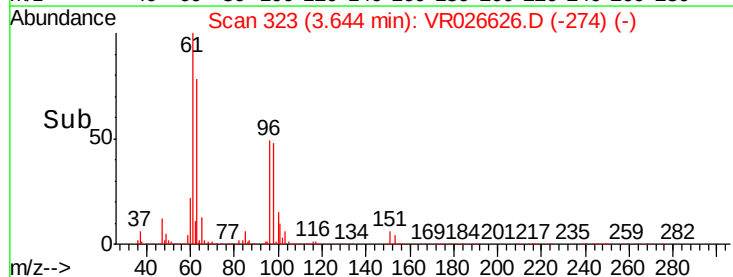
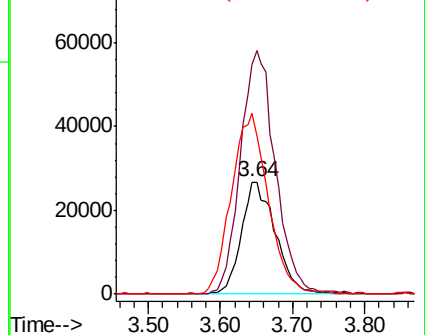
63 160.8 112.6 209.0

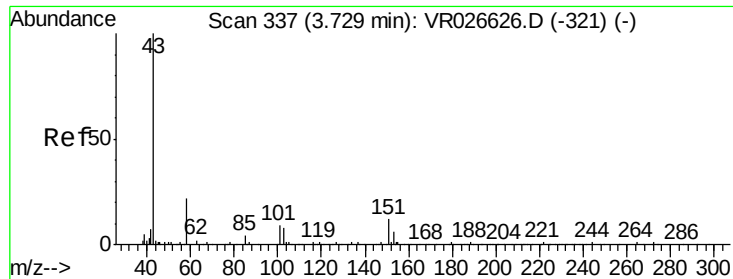


Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0

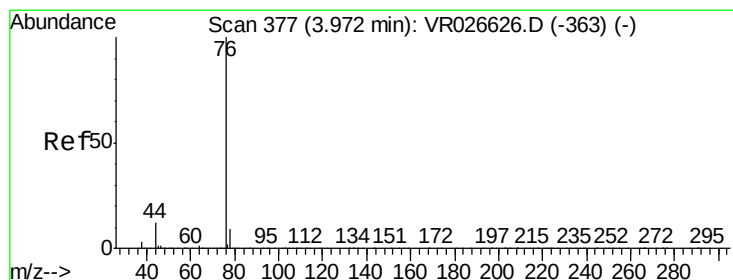
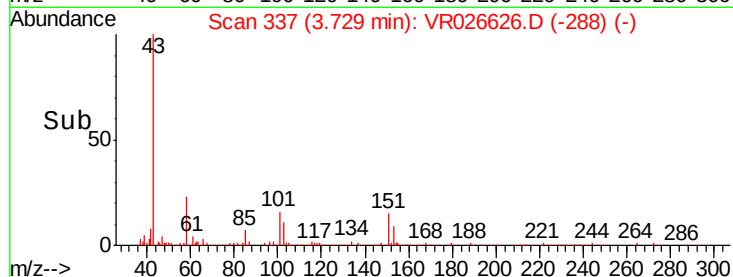
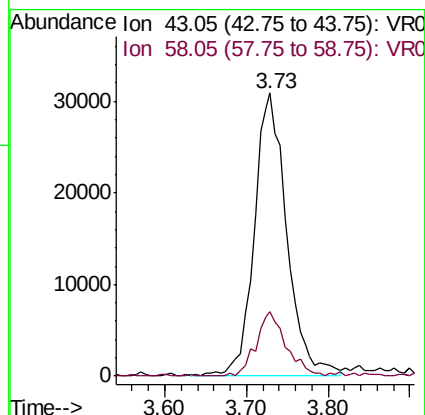
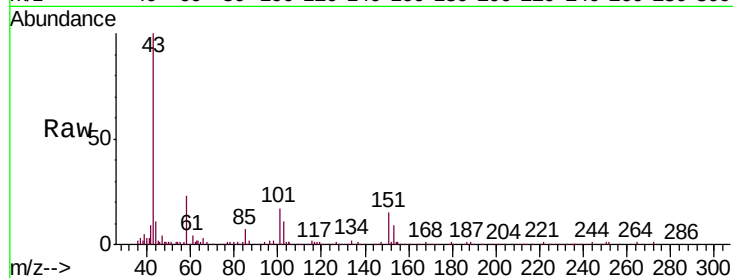




#13  
Acetone  
Concen: 48.074 ug/L  
RT: 3.73 min Scan# 337  
Delta R.T. 0.00 min  
Lab File: VR026626.D  
Acq: 12 Sep 2019 18:36

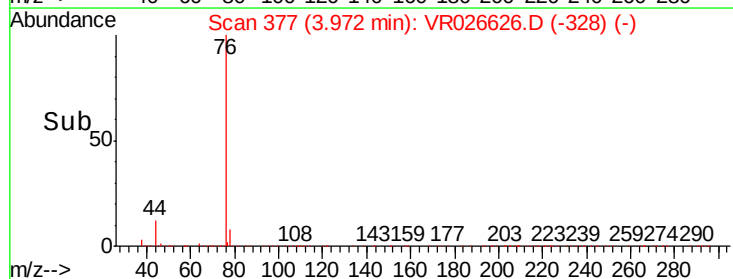
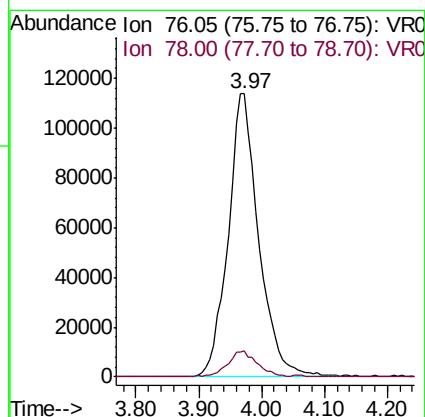
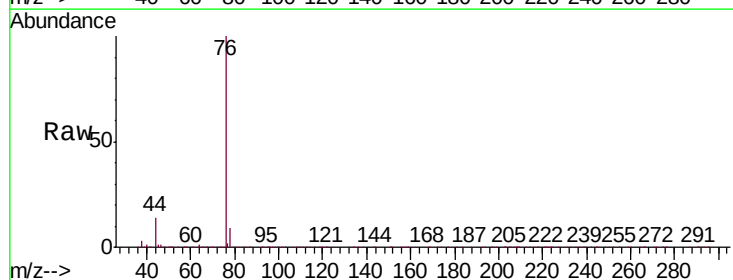
Instrument :  
MSVOA\_R  
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Tgt Ion: 43 Resp: 85749  
Ion Ratio Lower Upper  
43 100  
58 20.9 0.0 41.8

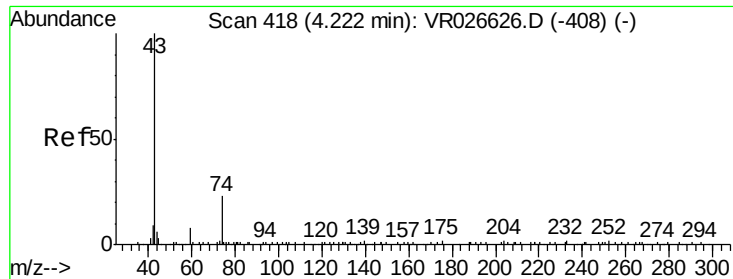


#14  
Carbon disulfide  
Concen: 5.836 ug/L  
RT: 3.97 min Scan# 377  
Delta R.T. 0.00 min  
Lab File: VR026626.D  
Acq: 12 Sep 2019 18:36

Tgt Ion: 76 Resp: 381368  
Ion Ratio Lower Upper  
76 100  
78 9.2 7.4 11.0



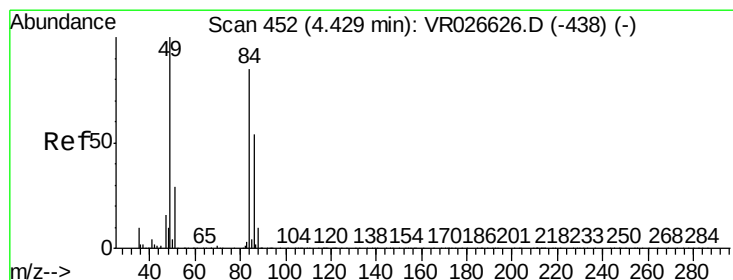
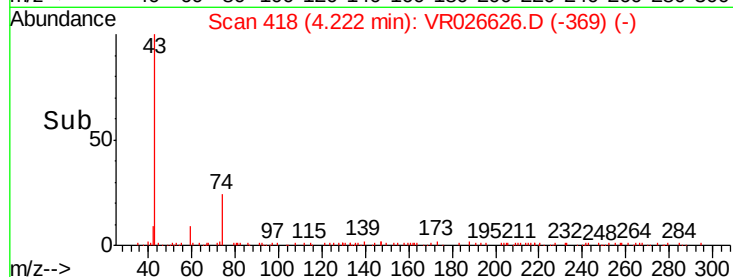
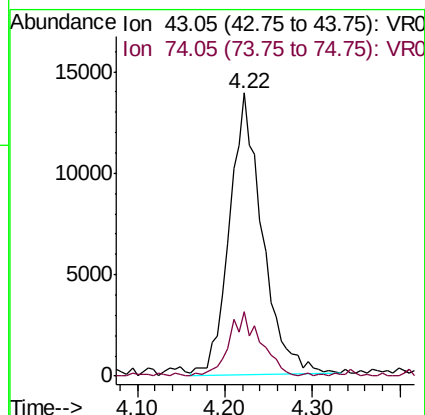
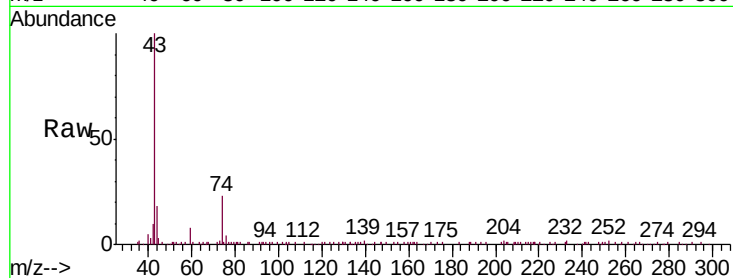




#15  
Methyl Acetate  
Concen: 4.596 ug/L  
RT: 4.22 min Scan# 418  
Delta R.T. 0.00 min  
Lab File: VR026626.D  
Acq: 12 Sep 2019 18:36

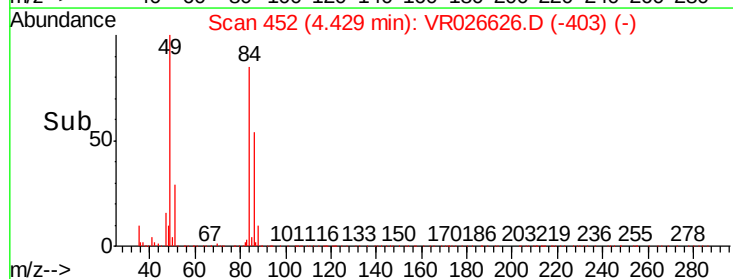
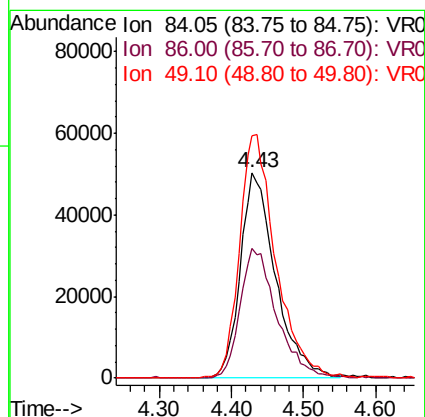
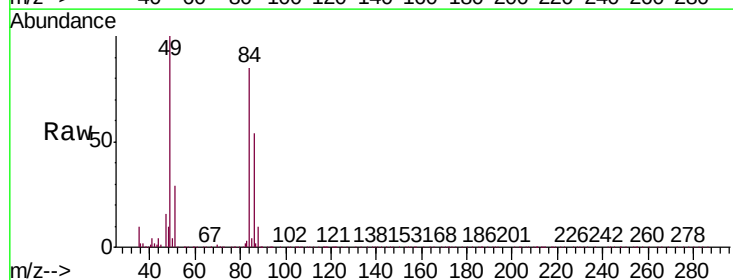
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00565

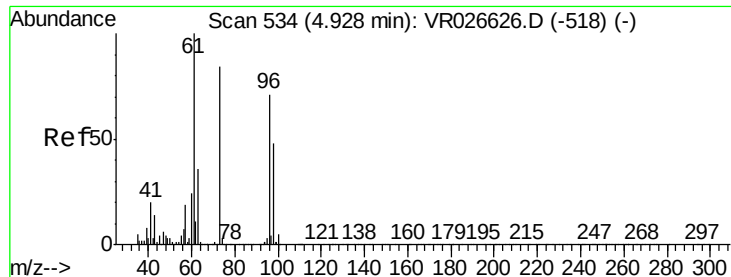
Tgt Ion: 43 Resp: 36219  
Ion Ratio Lower Upper  
43 100  
74 21.9 17.5 26.3



#16  
Methylene chloride  
Concen: 4.783 ug/L  
RT: 4.43 min Scan# 452  
Delta R.T. 0.00 min  
Lab File: VR026626.D  
Acq: 12 Sep 2019 18:36

Tgt Ion: 84 Resp: 170841  
Ion Ratio Lower Upper  
84 100  
86 63.1 44.2 82.0  
49 117.6 82.3 152.9

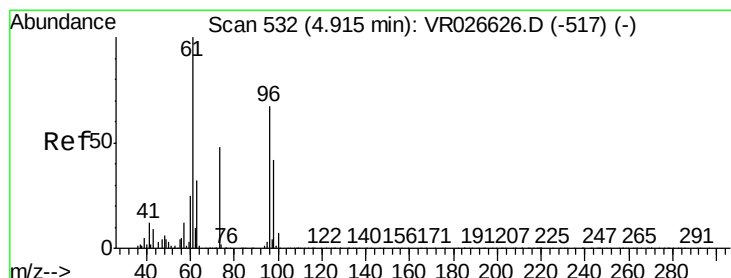
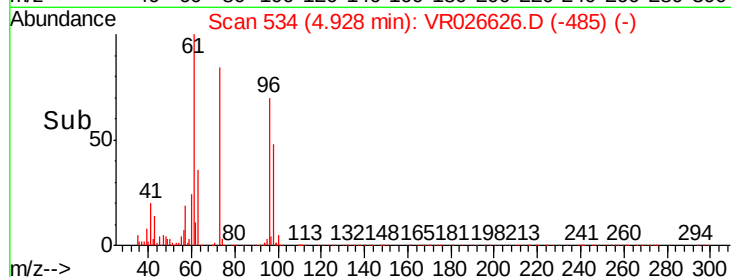
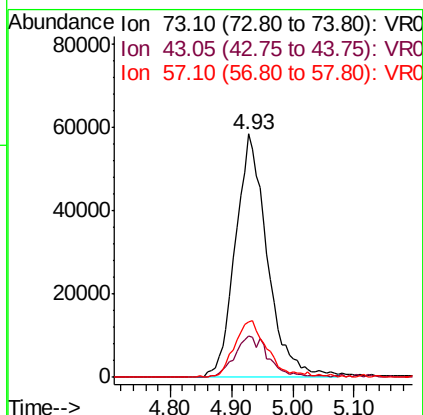
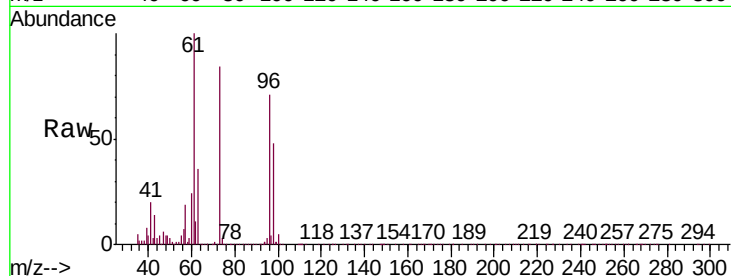




#17  
Methyl tert-butyl Ether  
Concen: 4.955 ug/L  
RT: 4.93 min Scan# 534  
Delta R.T. 0.00 min  
Lab File: VR026626.D  
Acq: 12 Sep 2019 18:36

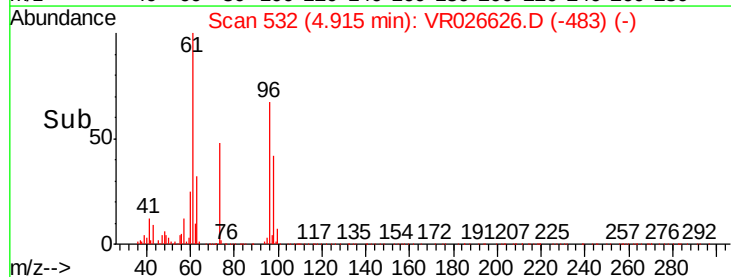
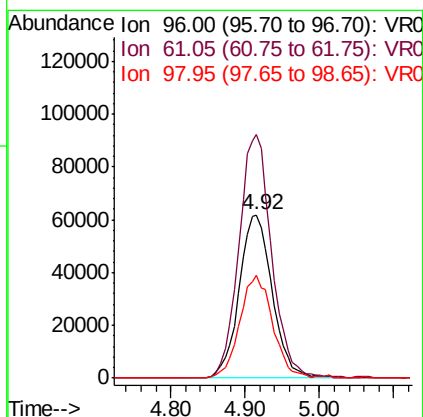
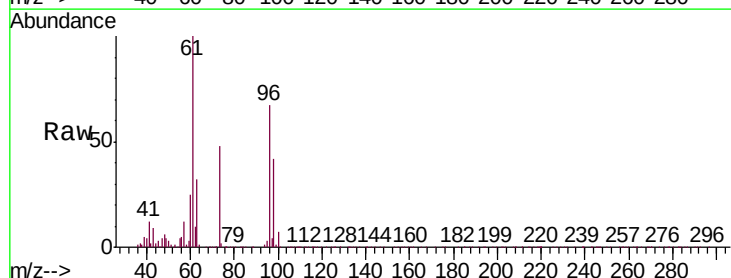
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00565

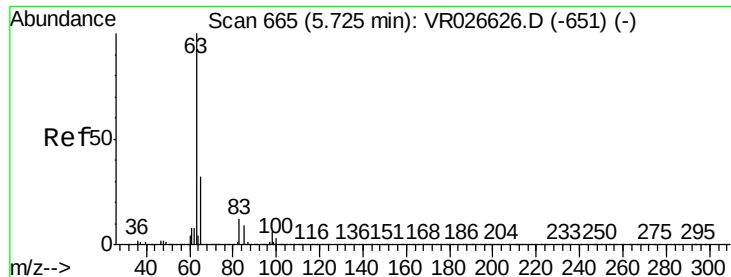
Tgt Ion: 73 Resp: 210773  
Ion Ratio Lower Upper  
73 100  
43 18.4 14.7 22.1  
57 23.6 18.9 28.3



#18  
trans-1,2-Dichloroethene  
Concen: 5.261 ug/L  
RT: 4.92 min Scan# 532  
Delta R.T. 0.00 min  
Lab File: VR026626.D  
Acq: 12 Sep 2019 18:36

Tgt Ion: 96 Resp: 193155  
Ion Ratio Lower Upper  
96 100  
61 149.2 104.4 194.0  
98 63.1 44.2 82.0





#19

1,1-Dichloroethane

Concen: 5.025 ug/L

RT: 5.72 min Scan# 665

Delta R.T. 0.00 min

Lab File: VR026626.D

Acq: 12 Sep 2019 18:36

Instrument :

MSVOA\_R

ClientSampleId :

VSTD00565

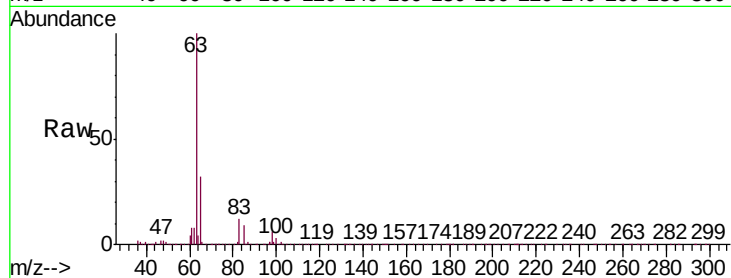
Tgt Ion: 63 Resp: 351693

Ion Ratio Lower Upper

63 100

65 32.2 22.5 41.9

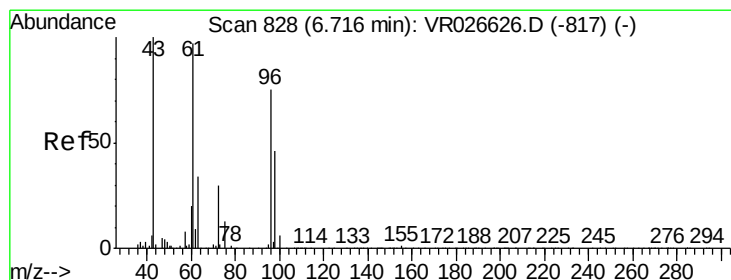
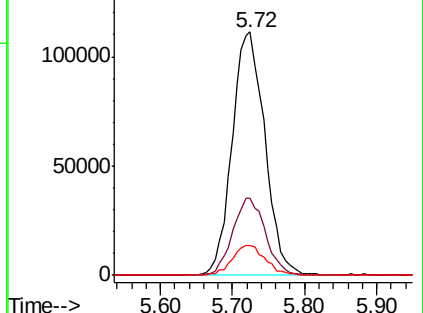
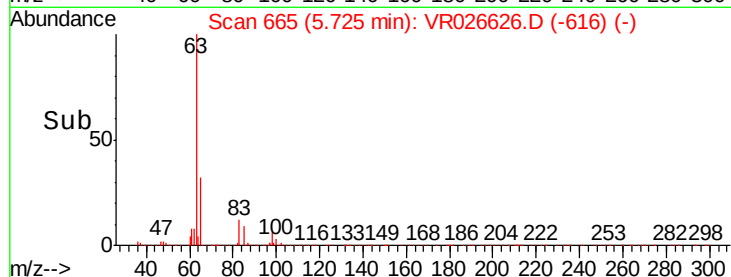
83 12.3 8.6 16.0



Abundance Ion 63.10 (62.80 to 63.80): VR0

Ion 65.10 (64.80 to 65.80): VR0

Ion 83.05 (82.75 to 83.75): VR0



#21

2-Butanone

Concen: 49.276 ug/L

RT: 6.72 min Scan# 828

Delta R.T. 0.00 min

Lab File: VR026626.D

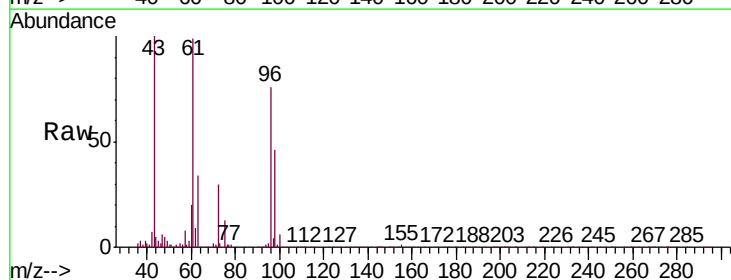
Acq: 12 Sep 2019 18:36

Tgt Ion: 43 Resp: 180423

Ion Ratio Lower Upper

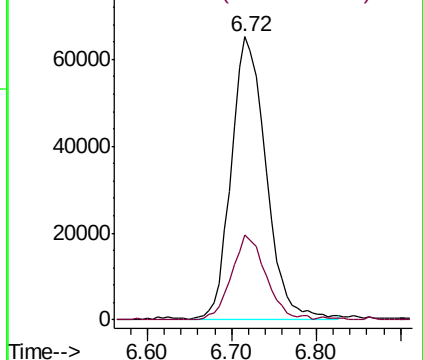
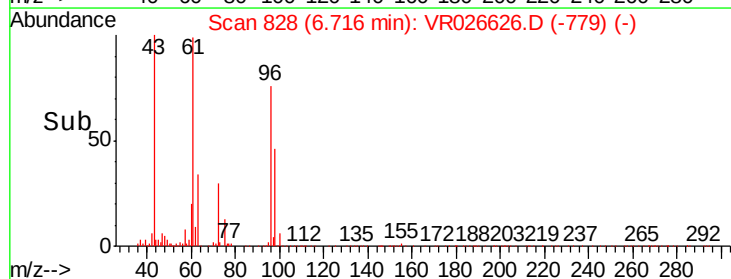
43 100

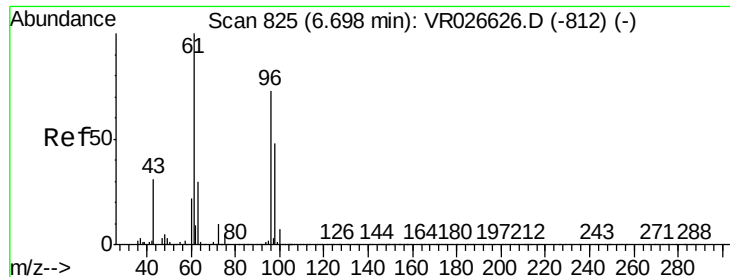
72 30.1 15.0 45.1



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 72.10 (71.80 to 72.80): VR0



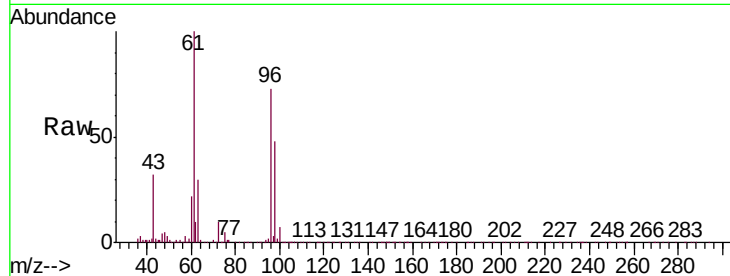


#22

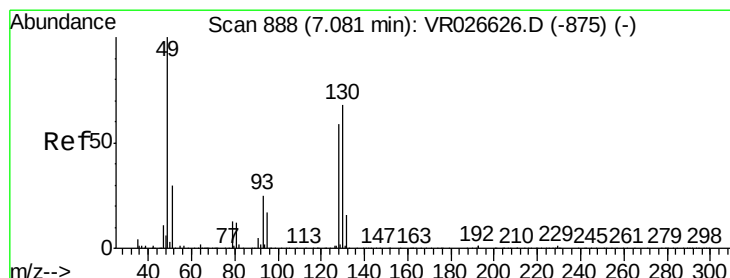
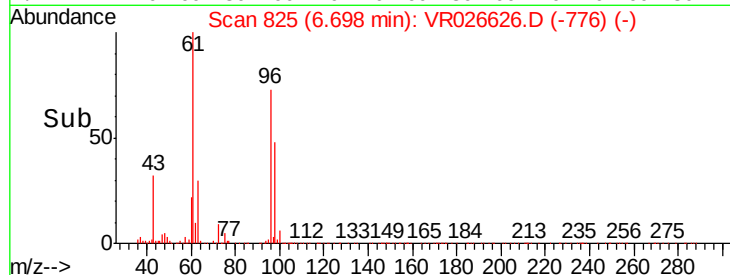
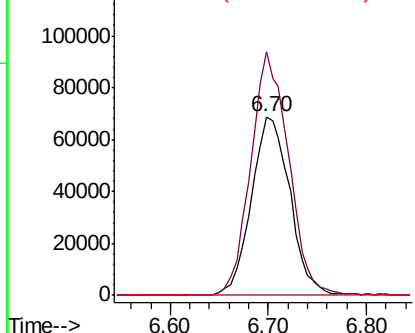
cis-1,2-Dichloroethene  
Concen: 5.188 ug/L  
RT: 6.70 min Scan# 825  
Delta R.T. 0.00 min  
Lab File: VR026626.D  
Acq: 12 Sep 2019 18:36

Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00565

Tgt Ion: 96 Resp: 187959  
Ion Ratio Lower Upper  
96 100  
61 136.3 95.4 177.2  
68 0.0 0.0 0.0



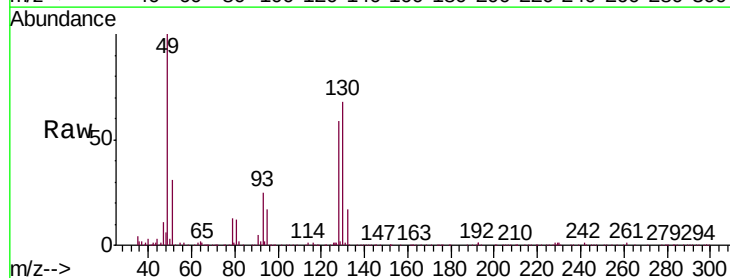
Abundance Ion 96.00 (95.70 to 96.70): VR0  
Ion 61.05 (60.75 to 61.75): VR0  
Ion 68.15 (67.85 to 68.85): VR0



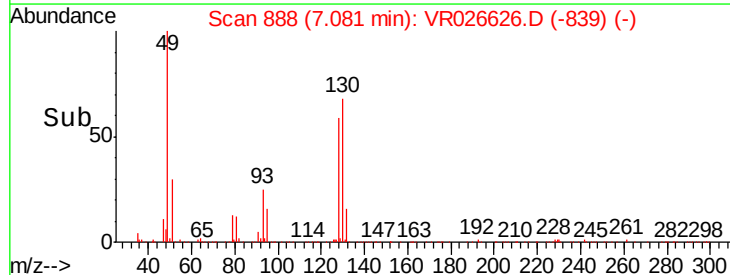
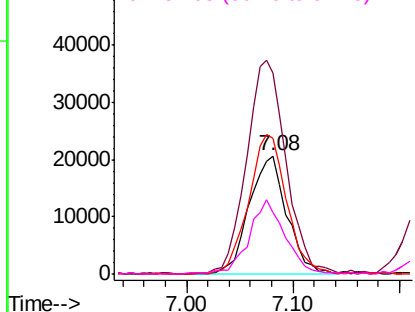
#23

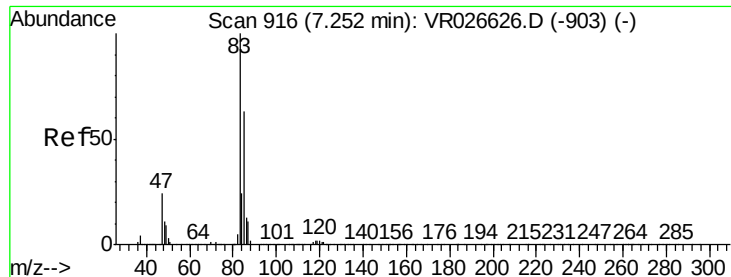
Bromochloromethane  
Concen: 5.236 ug/L  
RT: 7.08 min Scan# 888  
Delta R.T. 0.00 min  
Lab File: VR026626.D  
Acq: 12 Sep 2019 18:36

Tgt Ion: 128 Resp: 51155  
Ion Ratio Lower Upper  
128 100  
49 169.5 118.6 220.3  
130 115.1 80.6 149.6  
51 51.9 41.5 62.3



Abundance Ion 127.90 (127.60 to 128.60): V  
Ion 49.10 (48.80 to 49.80): VR0  
Ion 129.95 (129.65 to 130.65): V  
Ion 51.05 (50.75 to 51.75): VR0





#25

Chloroform

Concen: 4.927 ug/L

RT: 7.25 min Scan# 916

Delta R.T. 0.00 min

Lab File: VR026626.D

Acq: 12 Sep 2019 18:36

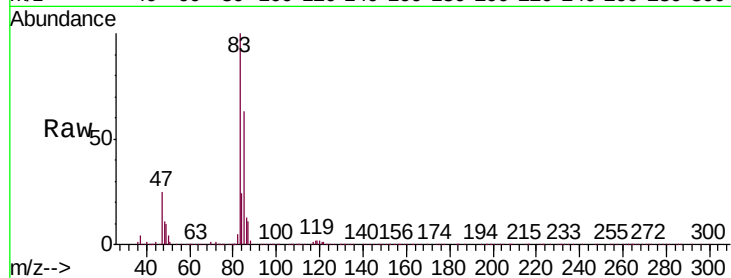
Instrument :  
MSVOA\_R  
ClientSampled :  
VSTD00565

Tgt Ion: 83 Resp: 316339

Ion Ratio Lower Upper

83 100

85 63.3 44.3 82.3



Abundance Ion 83.05 (82.75 to 83.75): VR0

Ion 85.00 (84.70 to 85.70): VR0

7.25

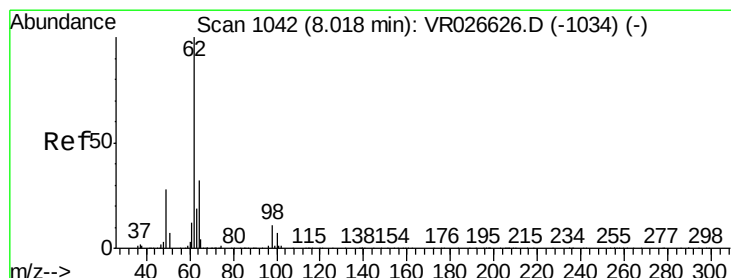
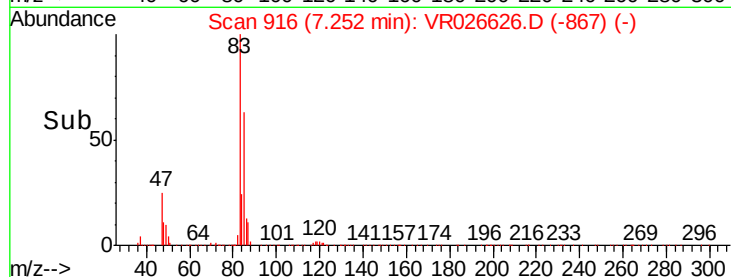
150000

100000

50000

0

Time--> 7.10 7.20 7.30 7.40



#27

1,2-Dichloroethane

Concen: 4.995 ug/L

RT: 8.02 min Scan# 1042

Delta R.T. 0.00 min

Lab File: VR026626.D

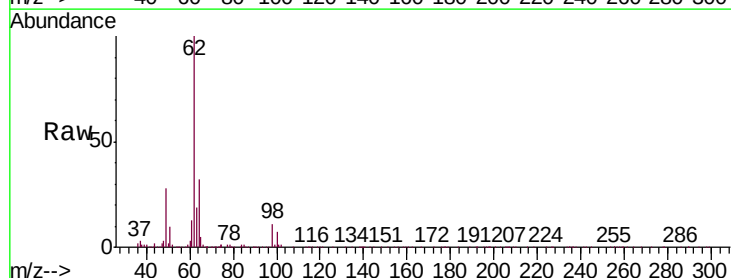
Acq: 12 Sep 2019 18:36

Tgt Ion: 62 Resp: 116878

Ion Ratio Lower Upper

62 100

98 11.2 9.0 13.4



Abundance Ion 62.00 (61.70 to 62.70): VR0

Ion 98.05 (97.75 to 98.75): VR0

8.02

60000

50000

40000

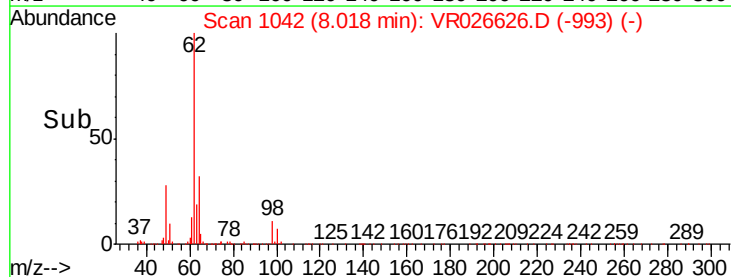
30000

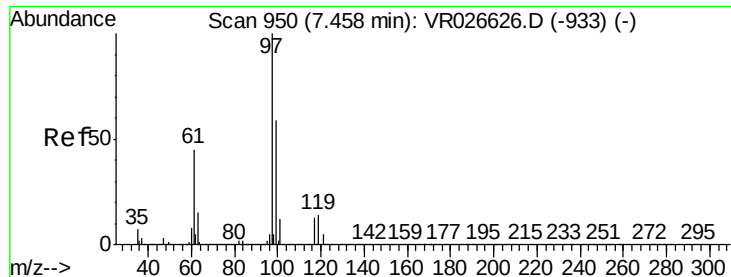
20000

10000

0

Time--> 7.95 8.00 8.05 8.10





#29

1,1,1-Trichloroethane

Concen: 5.367 ug/L

RT: 7.46 min Scan# 950

Delta R.T. 0.00 min

Lab File: VR026626.D

Acq: 12 Sep 2019 18:36

Instrument :

MSVOA\_R

ClientSampleId :

VSTD00565

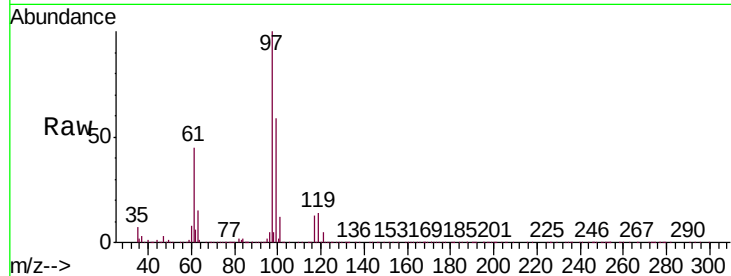
Tgt Ion: 97 Resp: 269169

Ion Ratio Lower Upper

97 100

99 62.6 50.1 75.1

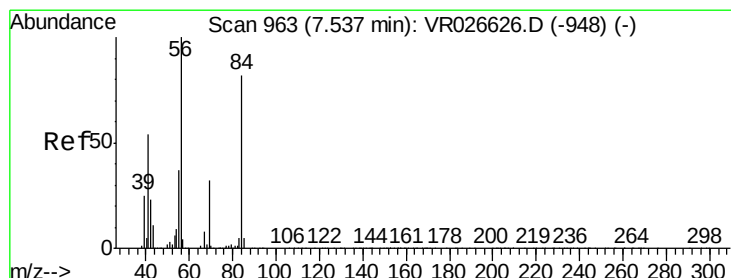
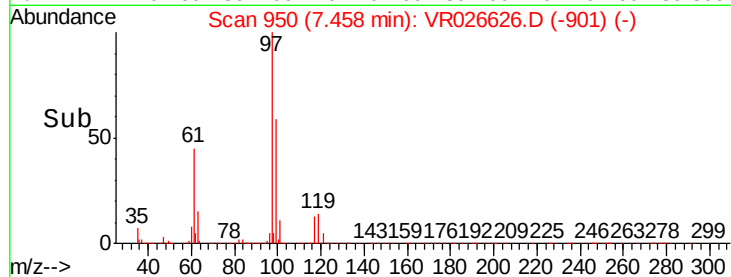
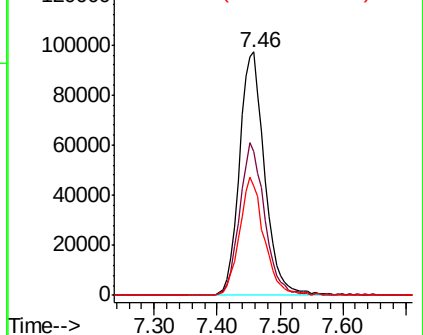
61 47.3 37.8 56.8



Abundance Ion 96.95 (96.65 to 97.65): VR0

Ion 99.05 (98.75 to 99.75): VR0

Ion 61.05 (60.75 to 61.75): VR0



#30

Cyclohexane

Concen: 5.305 ug/L

RT: 7.54 min Scan# 963

Delta R.T. 0.00 min

Lab File: VR026626.D

Acq: 12 Sep 2019 18:36

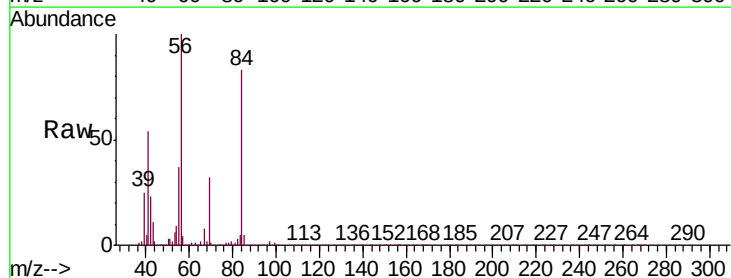
Tgt Ion: 56 Resp: 309532

Ion Ratio Lower Upper

56 100

69 32.4 25.9 38.9

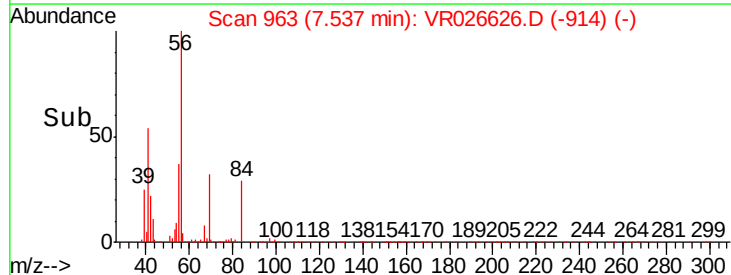
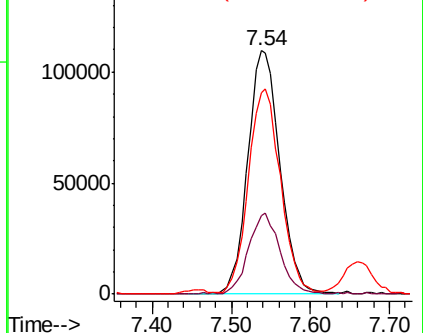
84 84.5 67.6 101.4

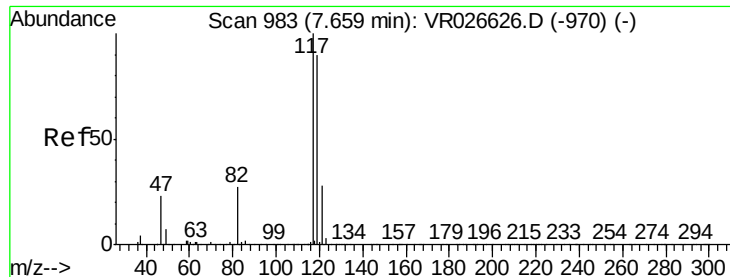


Abundance Ion 56.10 (55.80 to 56.80): VR0

Ion 69.15 (68.85 to 69.85): VR0

Ion 84.15 (83.85 to 84.85): VR0

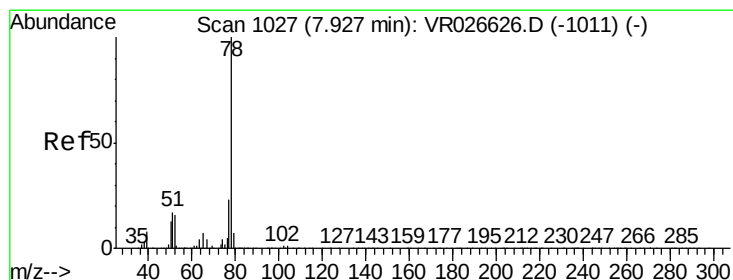
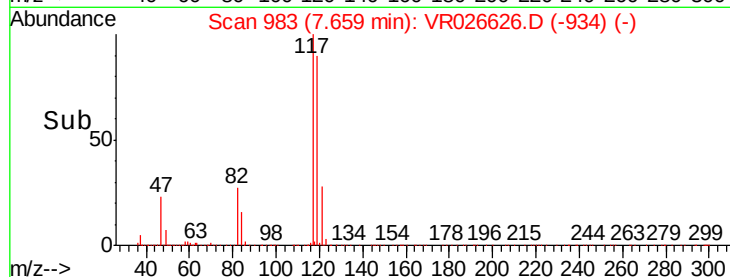
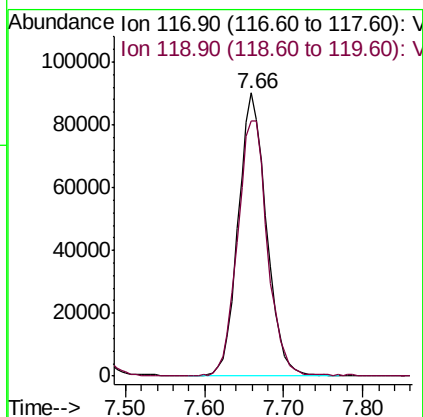
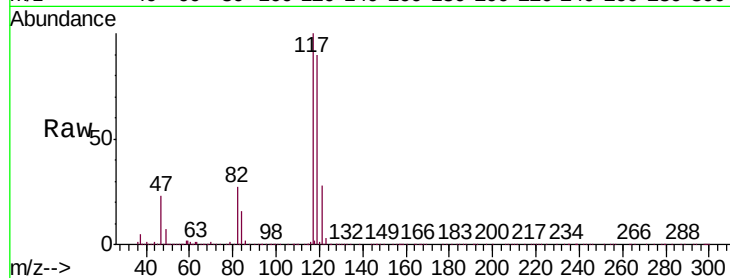




#31  
Carbon tetrachloride  
Concen: 5.372 ug/L  
RT: 7.66 min Scan# 983  
Delta R.T. 0.00 min  
Lab File: VR026626.D  
Acq: 12 Sep 2019 18:36

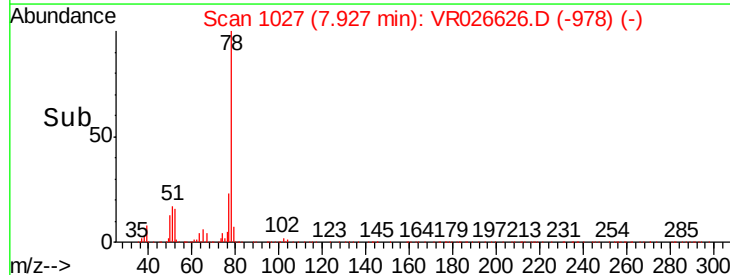
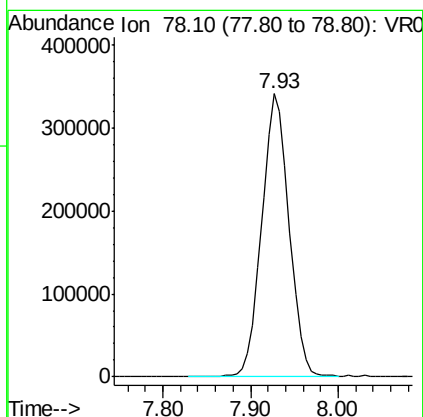
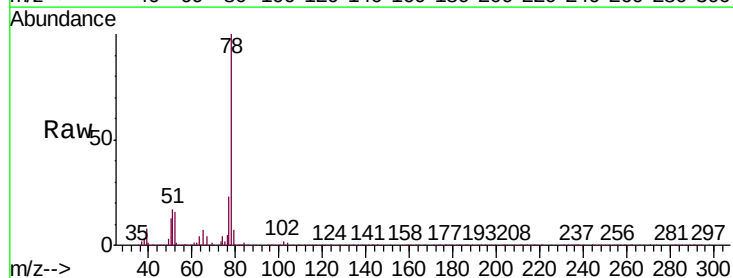
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00565

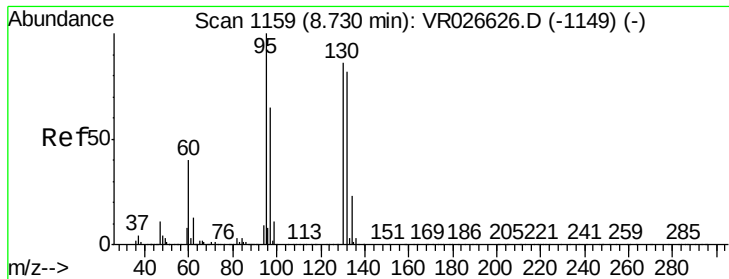
Tgt Ion:117 Resp: 223330  
Ion Ratio Lower Upper  
117 100  
119 95.8 76.6 115.0



#33  
Benzene  
Concen: 5.089 ug/L  
RT: 7.93 min Scan# 1027  
Delta R.T. 0.00 min  
Lab File: VR026626.D  
Acq: 12 Sep 2019 18:36

Tgt Ion: 78 Resp: 738887

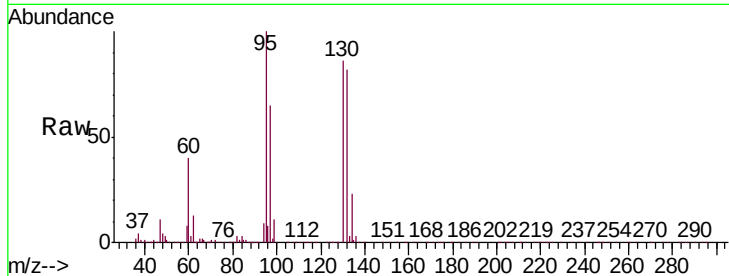




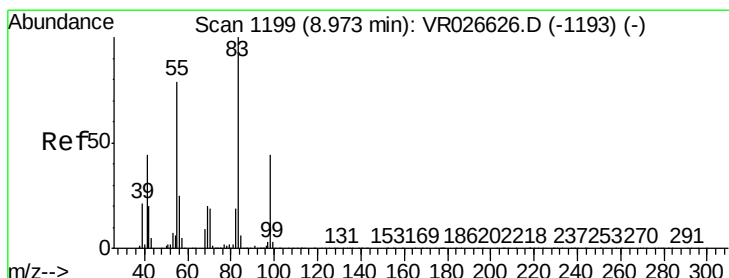
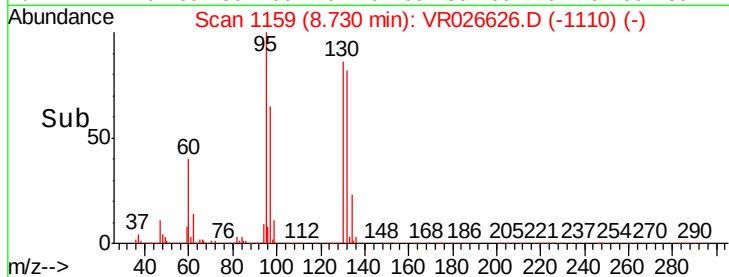
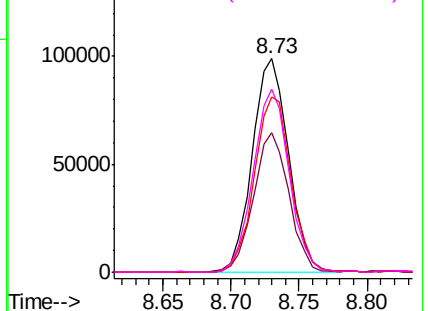
#34  
 Trichloroethene  
 Concen: 5.147 ug/L  
 RT: 8.73 min Scan# 1159  
 Delta R.T. 0.00 min  
 Lab File: VR026626.D  
 Acq: 12 Sep 2019 18:36

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00565

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 184978 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 97       | 65.1  | 45.6  | 84.6   |
| 132      | 81.9  | 57.3  | 106.5  |
| 130      | 85.8  | 60.1  | 111.5  |

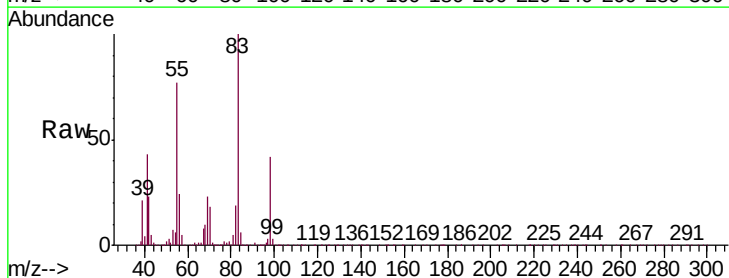


Abundance Ion 95.00 (94.70 to 95.70): VR0  
 Ion 96.95 (96.65 to 97.65): VR0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

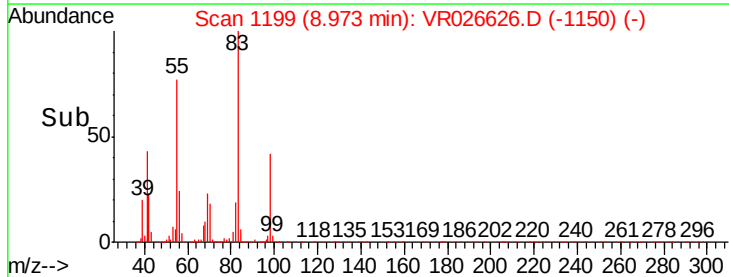
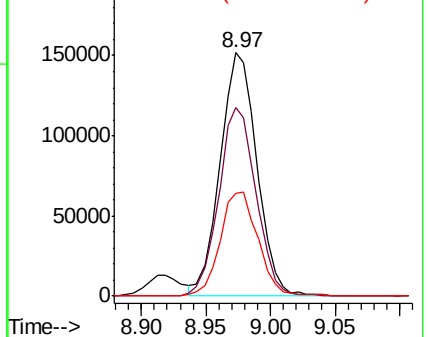


#35  
 Methylcyclohexane  
 Concen: 5.554 ug/L  
 RT: 8.97 min Scan# 1199  
 Delta R.T. 0.00 min  
 Lab File: VR026626.D  
 Acq: 12 Sep 2019 18:36

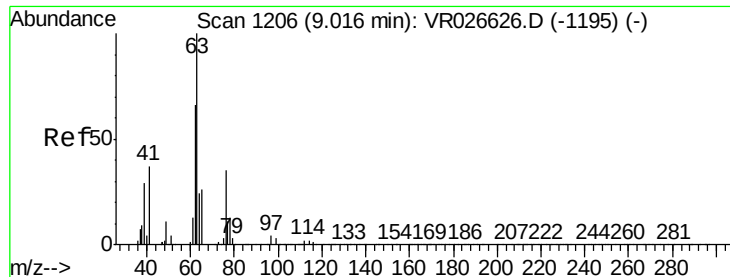
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 83    | Resp: | 301385 |
| Ion      | Ratio | Lower | Upper  |
| 83       | 100   |       |        |
| 55       | 79.4  | 63.5  | 95.3   |
| 98       | 44.2  | 35.4  | 53.0   |



Abundance Ion 83.15 (82.85 to 83.85): VR0  
 Ion 55.10 (54.80 to 55.80): VR0  
 Ion 98.15 (97.85 to 98.85): VR0



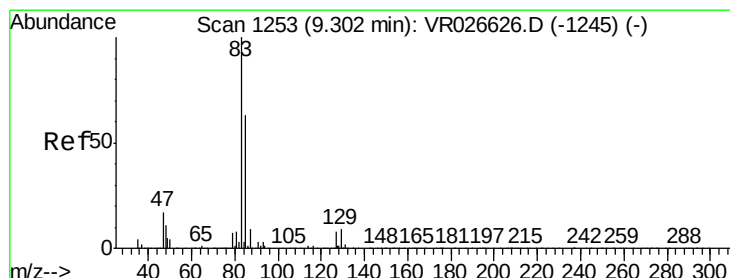
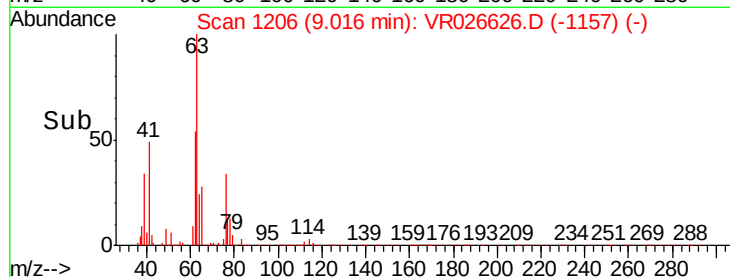
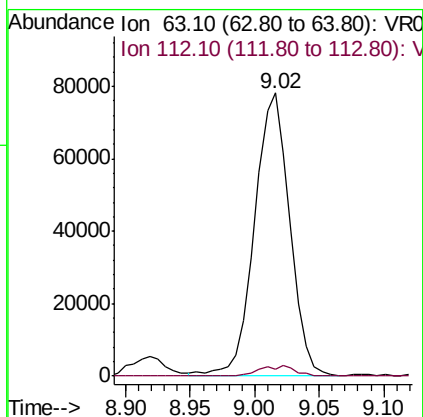
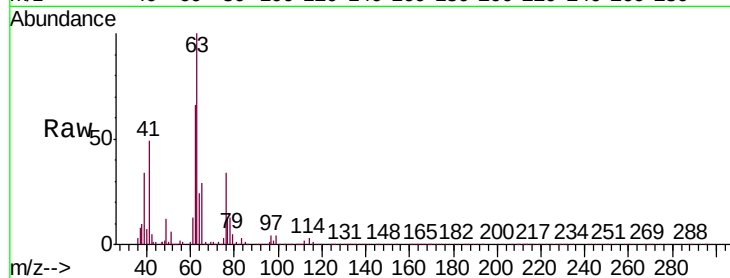




#37  
 1,2-Dichloropropane  
 Concen: 5.054 ug/L  
 RT: 9.02 min Scan# 1206  
 Delta R.T. 0.00 min  
 Lab File: VR026626.D  
 Acq: 12 Sep 2019 18:36

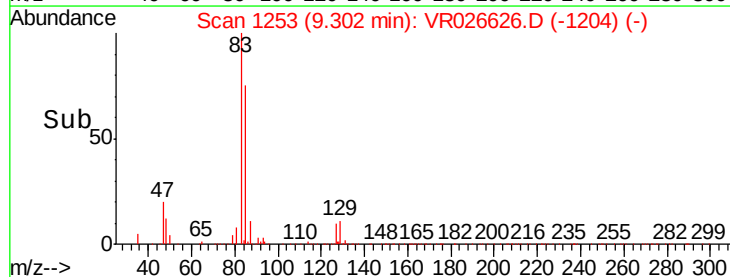
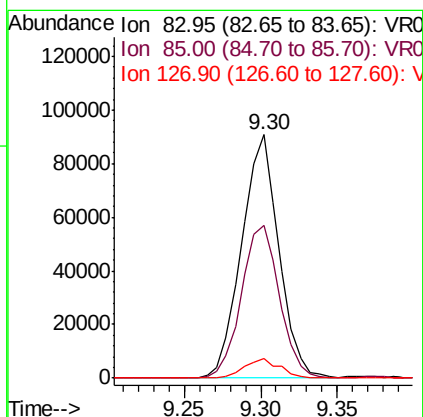
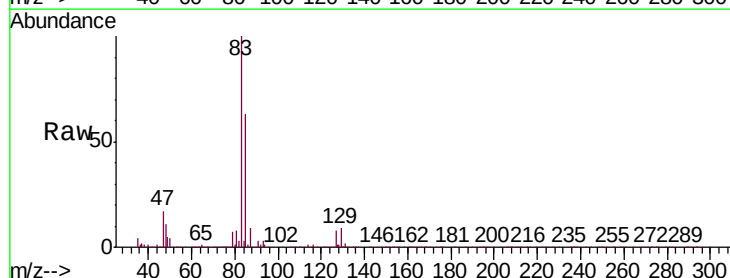
Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00565

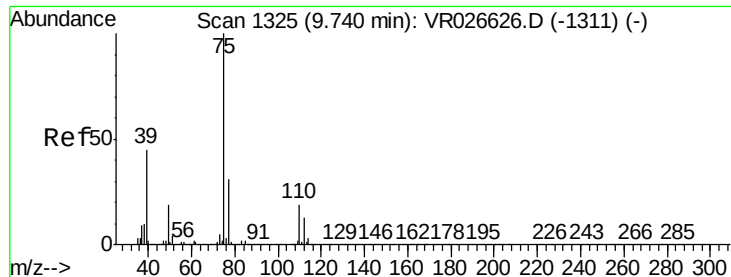
Tgt Ion: 63 Resp: 146515  
 Ion Ratio Lower Upper  
 63 100  
 112 3.9 3.1 4.7



#38  
 Bromodichloromethane  
 Concen: 5.113 ug/L  
 RT: 9.30 min Scan# 1253  
 Delta R.T. 0.00 min  
 Lab File: VR026626.D  
 Acq: 12 Sep 2019 18:36

Tgt Ion: 83 Resp: 153339  
 Ion Ratio Lower Upper  
 83 100  
 85 62.9 44.0 81.8  
 127 8.0 6.4 9.6

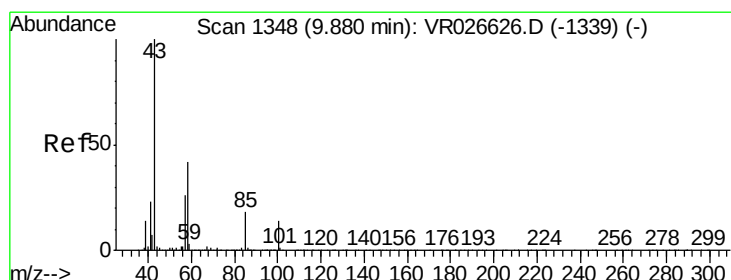
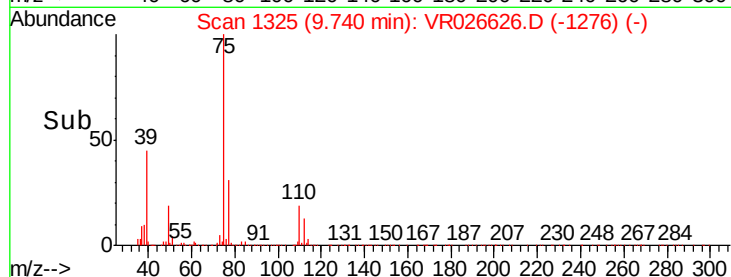
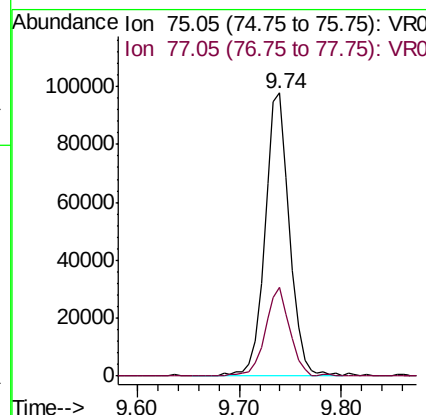
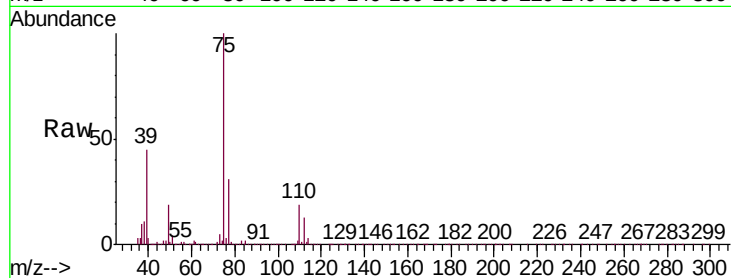




#39  
 cis-1,3-Dichloropropene  
 Concen: 5.156 ug/L  
 RT: 9.74 min Scan# 1325  
 Delta R.T. 0.00 min  
 Lab File: VR026626.D  
 Acq: 12 Sep 2019 18:36

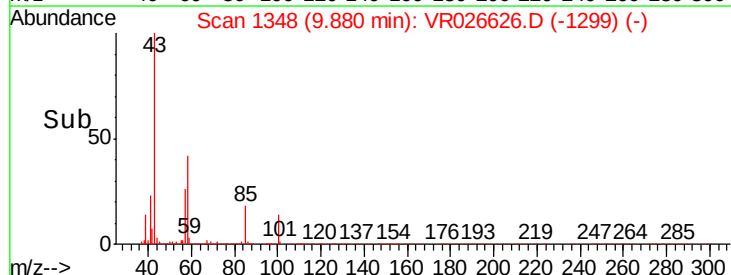
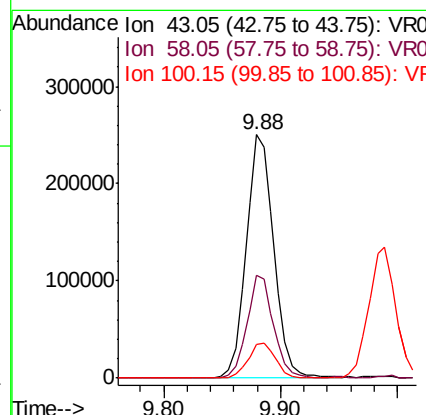
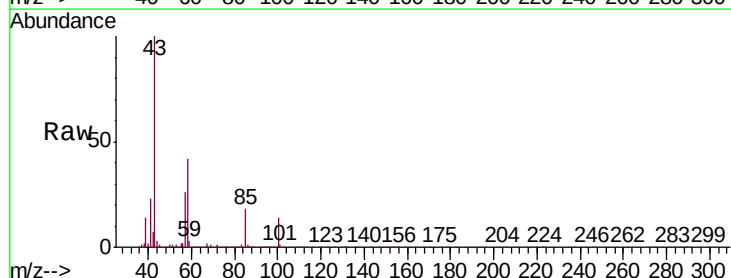
Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00565

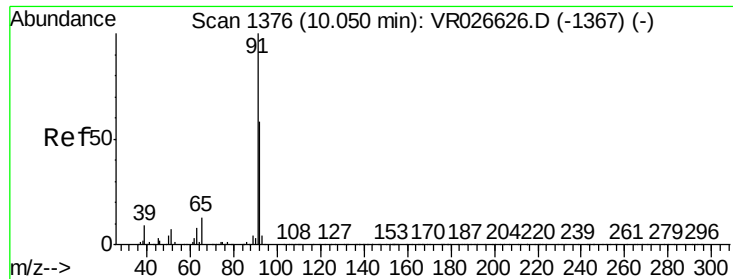
Tgt Ion: 75 Resp: 162254  
 Ion Ratio Lower Upper  
 75 100  
 77 31.2 21.8 40.6



#40  
 4-Methyl-2-pentanone  
 Concen: 50.452 ug/L  
 RT: 9.88 min Scan# 1348  
 Delta R.T. 0.00 min  
 Lab File: VR026626.D  
 Acq: 12 Sep 2019 18:36

Tgt Ion: 43 Resp: 410608  
 Ion Ratio Lower Upper  
 43 100  
 58 40.7 32.6 48.8  
 100 14.6 11.7 17.5





#42

Toluene

Concen: 5.342 ug/L

RT: 10.05 min Scan# 1376

Delta R.T. 0.00 min

Lab File: VR026626.D

Acq: 12 Sep 2019 18:36

Instrument :

MSVOA\_R

ClientSampleId :

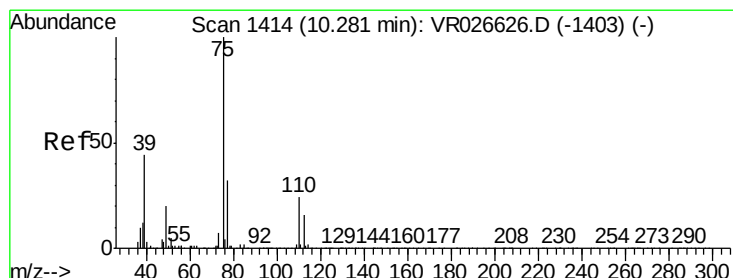
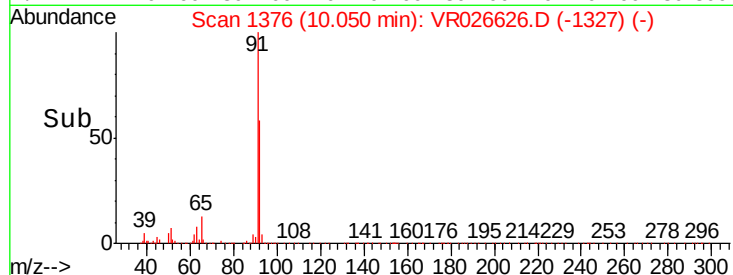
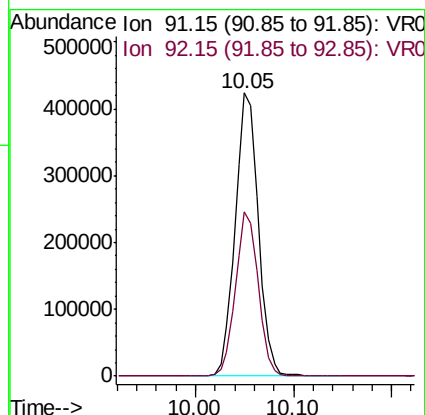
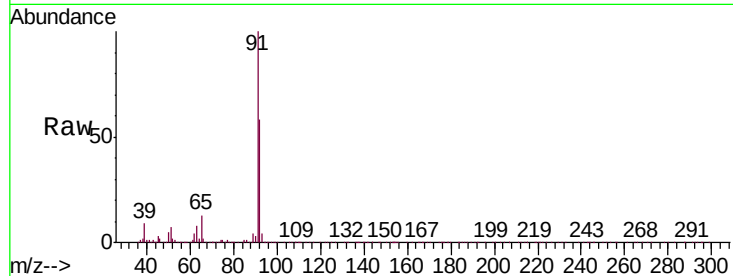
VSTD00565

Tgt Ion: 91 Resp: 694488

Ion Ratio Lower Upper

91 100

92 58.3 40.8 75.8



#44

trans-1,3-Dichloropropene

Concen: 5.153 ug/L

RT: 10.28 min Scan# 1414

Delta R.T. 0.00 min

Lab File: VR026626.D

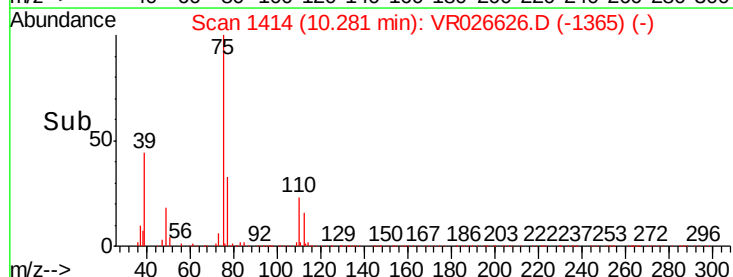
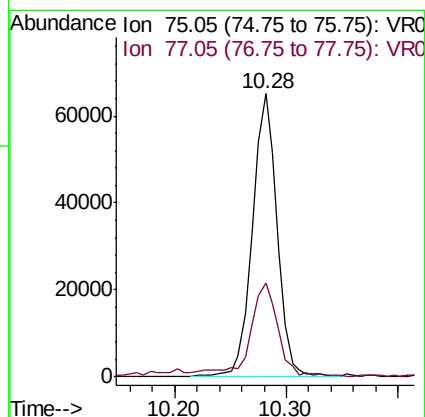
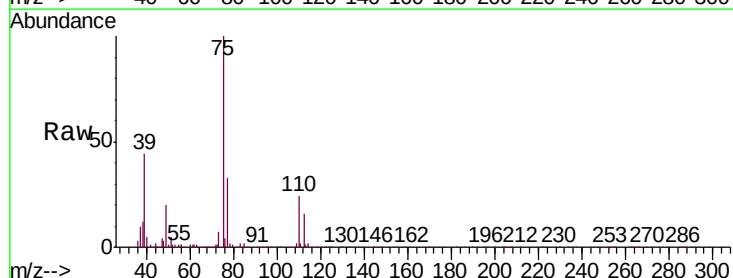
Acq: 12 Sep 2019 18:36

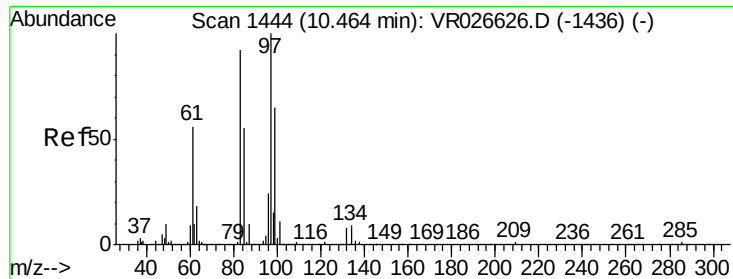
Tgt Ion: 75 Resp: 100465

Ion Ratio Lower Upper

75 100

77 33.0 23.1 42.9

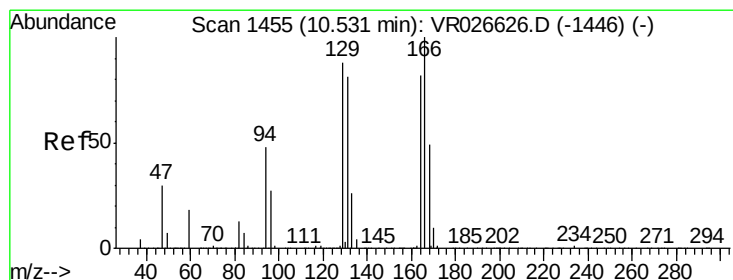
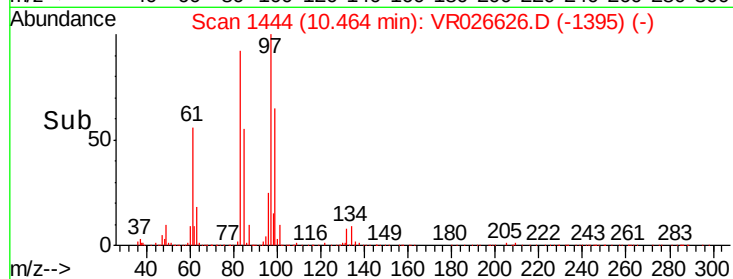
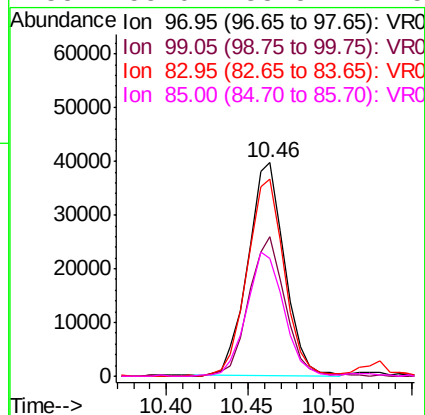
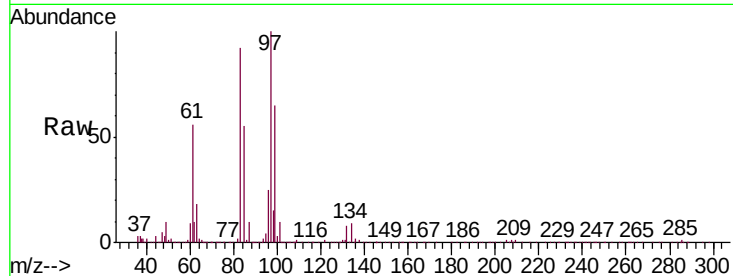




#45  
 1,1,2-Trichloroethane  
 Concen: 5.118 ug/L  
 RT: 10.46 min Scan# 1444  
 Delta R.T. 0.00 min  
 Lab File: VR026626.D  
 Acq: 12 Sep 2019 18:36

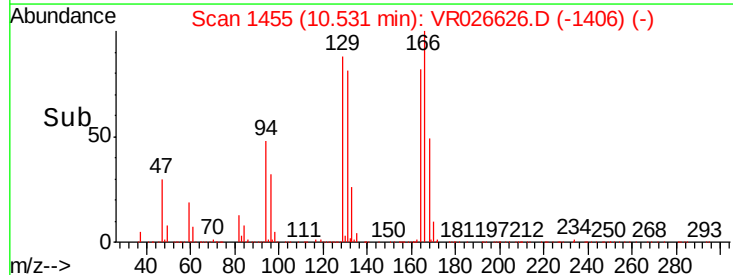
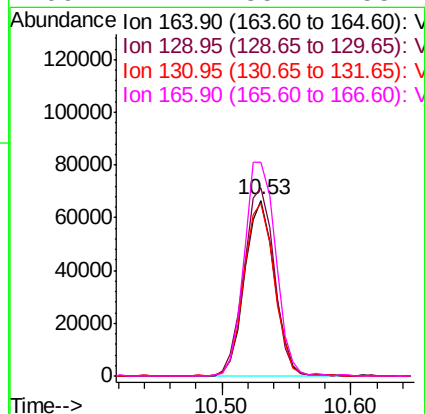
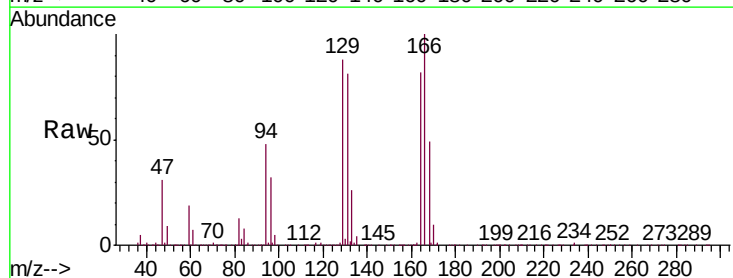
Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00565

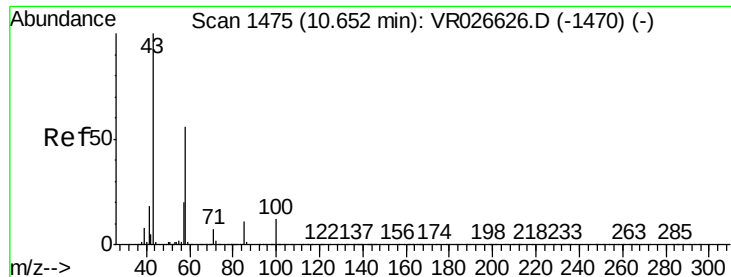
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 62181 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 65.1  | 45.6  | 84.6  |
| 83       | 92.2  | 64.5  | 119.9 |
| 85       | 55.0  | 38.5  | 71.5  |



#47  
 Tetrachloroethene  
 Concen: 5.266 ug/L  
 RT: 10.53 min Scan# 1455  
 Delta R.T. 0.00 min  
 Lab File: VR026626.D  
 Acq: 12 Sep 2019 18:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 164   | Resp: | 106697 |
| Ion      | Ratio | Lower | Upper  |
| 164      | 100   |       |        |
| 129      | 106.9 | 74.8  | 139.0  |
| 131      | 98.7  | 69.1  | 128.3  |
| 166      | 121.7 | 85.2  | 158.2  |

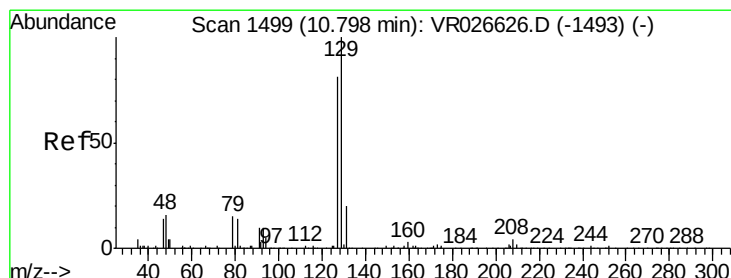
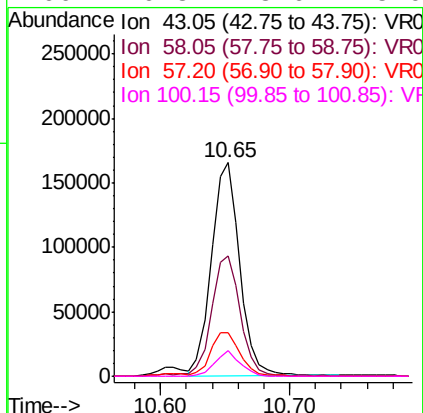
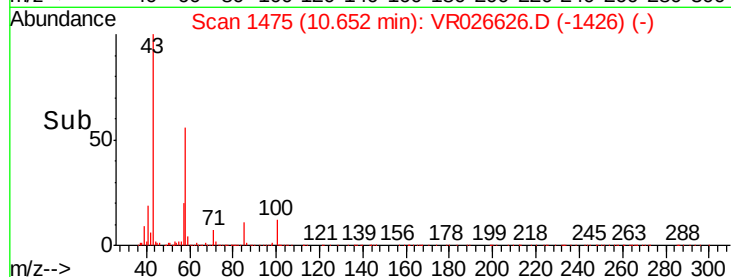
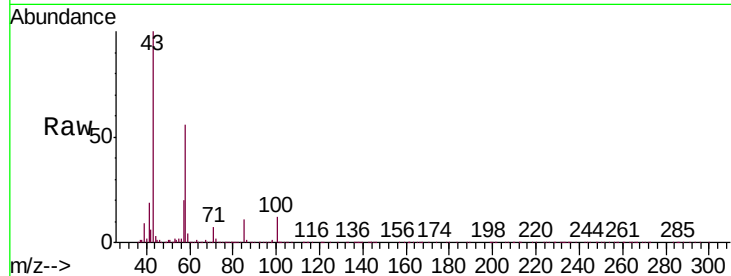




#48  
2-Hexanone  
Concen: 51.857 ug/L  
RT: 10.65 min Scan# 1475  
Delta R.T. 0.00 min  
Lab File: VR026626.D  
Acq: 12 Sep 2019 18:36

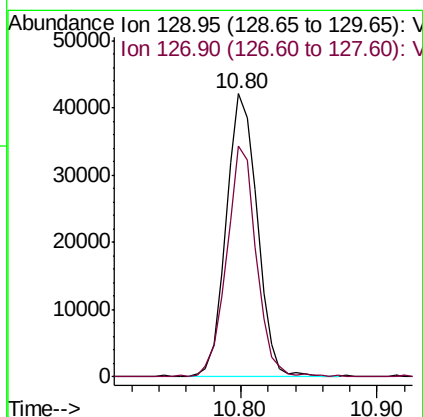
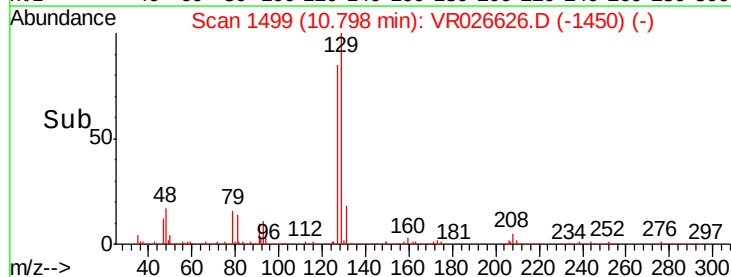
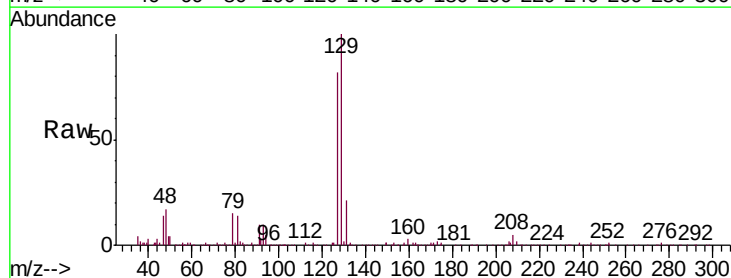
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00565

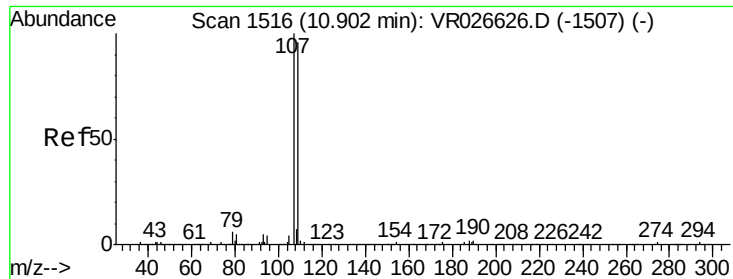
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 255223 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 58.0  | 46.4  | 69.6   |
| 57       | 20.9  | 16.7  | 25.1   |
| 100      | 10.8  | 8.6   | 13.0   |



#49  
Dibromochloromethane  
Concen: 5.219 ug/L  
RT: 10.80 min Scan# 1499  
Delta R.T. 0.00 min  
Lab File: VR026626.D  
Acq: 12 Sep 2019 18:36

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 66693 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 81.5  | 57.0  | 105.9 |

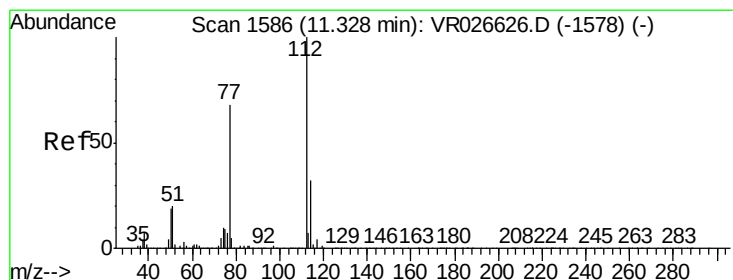
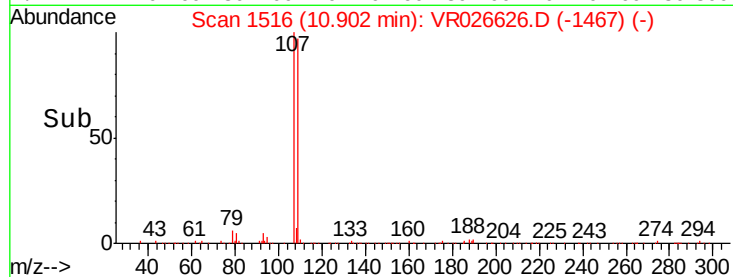
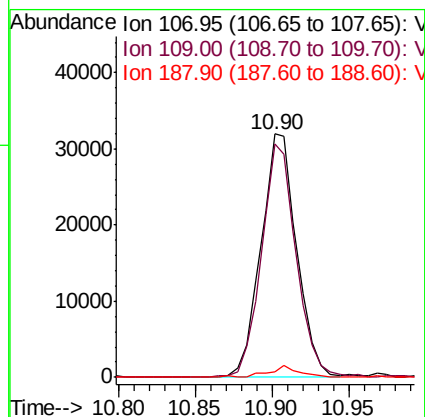
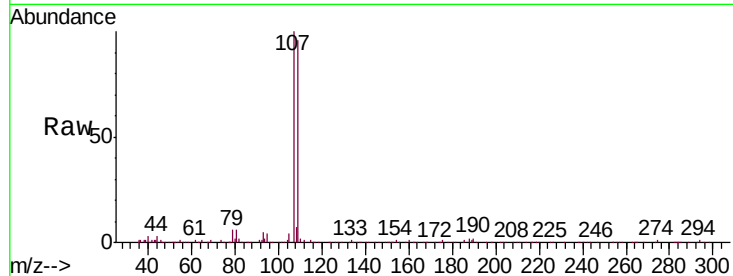




#50  
1,2-Dibromoethane  
Concen: 5.092 ug/L  
RT: 10.90 min Scan# 1516  
Delta R.T. 0.00 min  
Lab File: VR026626.D  
Acq: 12 Sep 2019 18:36

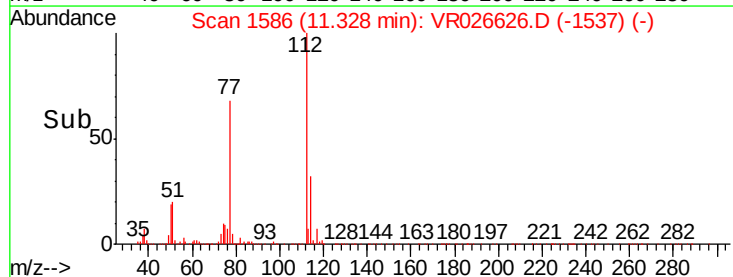
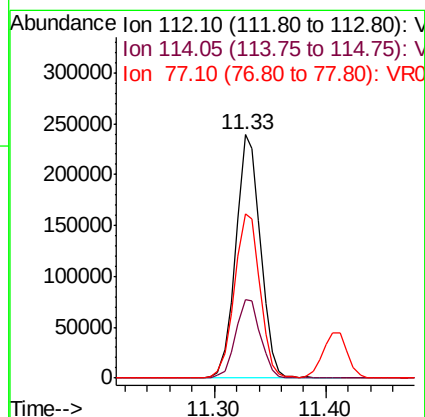
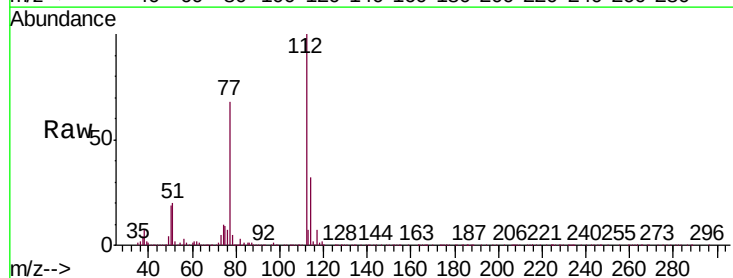
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00565

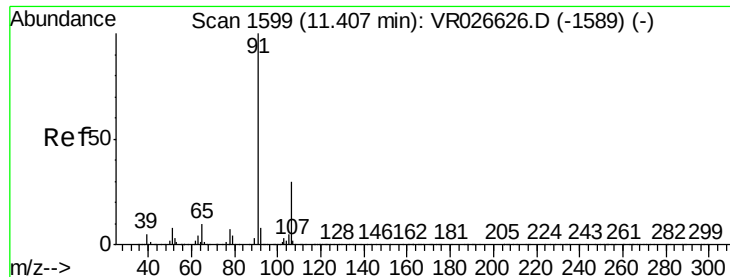
Tgt Ion:107 Resp: 51927  
Ion Ratio Lower Upper  
107 100  
109 96.0 67.2 124.8  
188 2.3 1.8 2.8



#51  
Chlorobenzene  
Concen: 5.197 ug/L  
RT: 11.33 min Scan# 1586  
Delta R.T. 0.00 min  
Lab File: VR026626.D  
Acq: 12 Sep 2019 18:36

Tgt Ion:112 Resp: 365353  
Ion Ratio Lower Upper  
112 100  
114 32.4 22.7 42.1  
77 67.5 54.0 81.0





#52

Ethylbenzene

Concen: 5.460 ug/L

RT: 11.41 min Scan# 1599

Delta R.T. 0.00 min

Lab File: VR026626.D

Acq: 12 Sep 2019 18:36

Instrument :

MSVOA\_R

ClientSampleId :

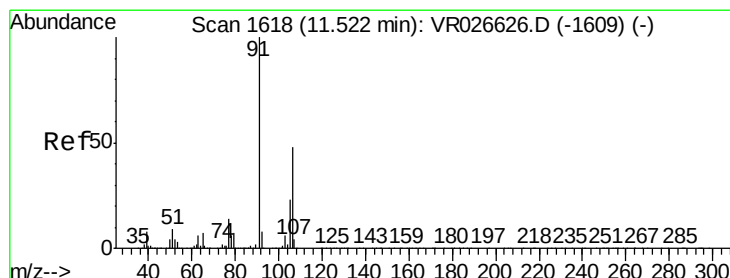
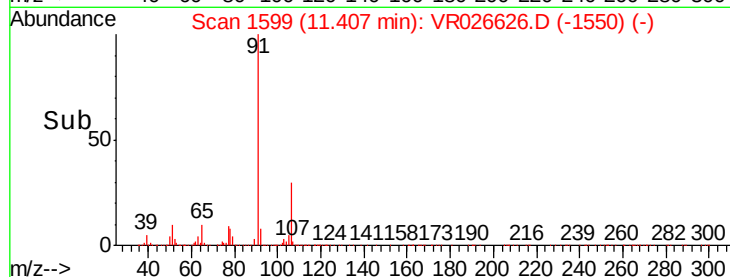
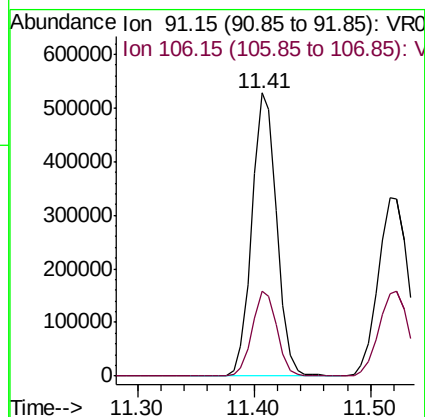
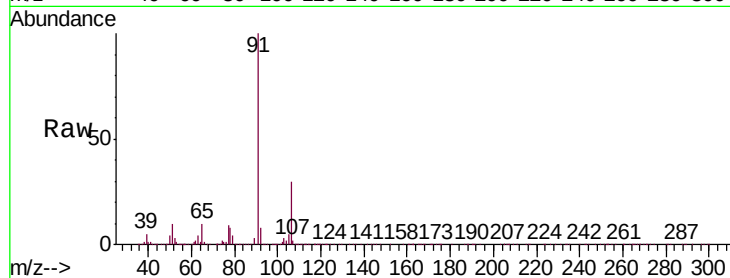
VSTD00565

Tgt Ion: 91 Resp: 780780

Ion Ratio Lower Upper

91 100

106 30.0 21.0 39.0



#53

m,p-Xylene

Concen: 5.363 ug/L

RT: 11.52 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VR026626.D

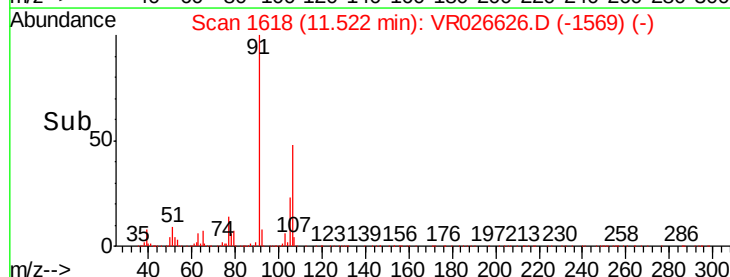
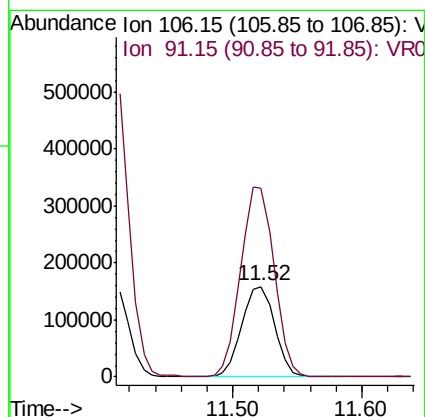
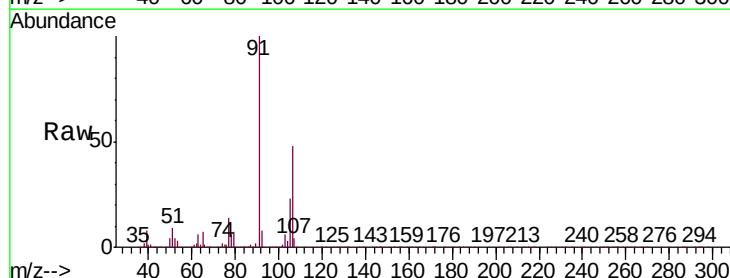
Acq: 12 Sep 2019 18:36

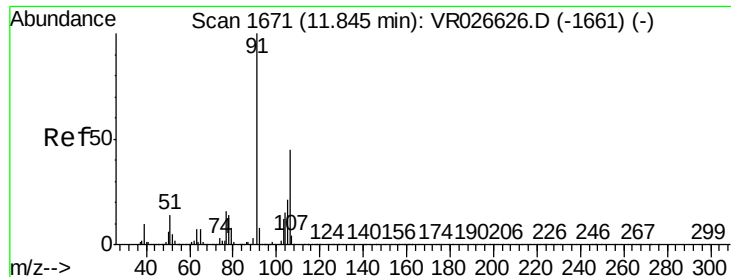
Tgt Ion: 106 Resp: 280181

Ion Ratio Lower Upper

106 100

91 209.3 146.5 272.1

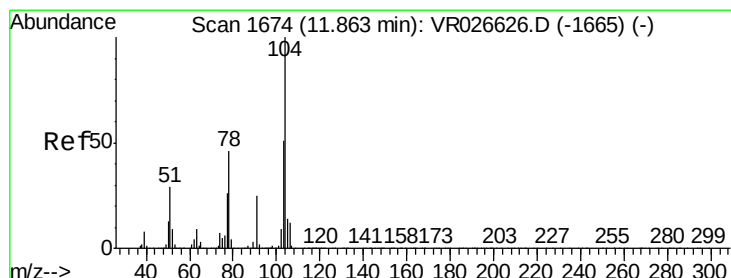
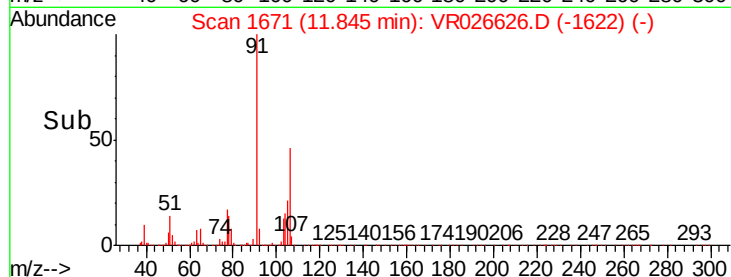
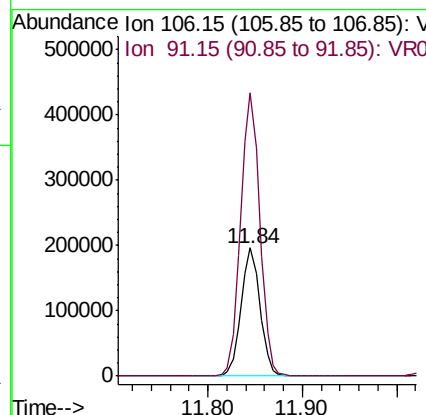
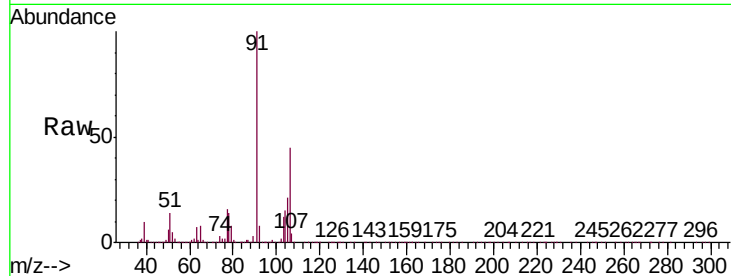




#54  
o-Xylene  
Concen: 5.385 ug/L  
RT: 11.84 min Scan# 1671  
Delta R.T. 0.00 min  
Lab File: VR026626.D  
Acq: 12 Sep 2019 18:36

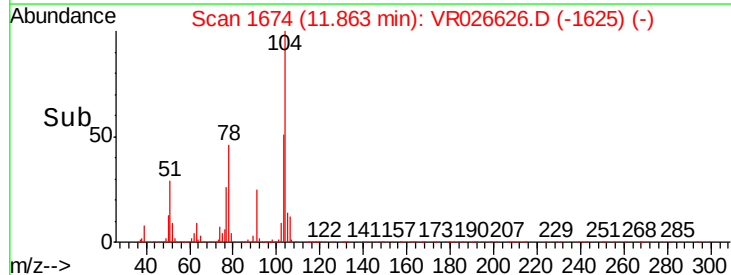
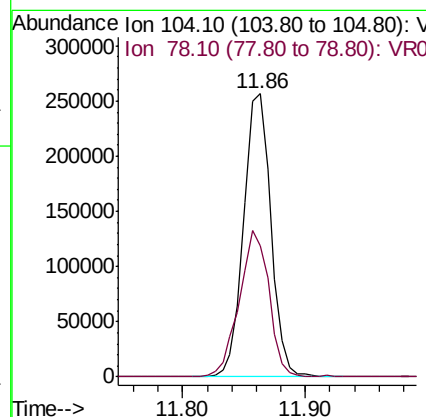
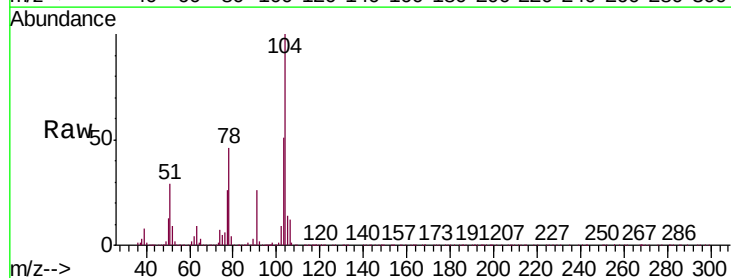
Instrument :  
MSVOA\_R  
ClientSampleId :  
VSTD00565

Tgt Ion:106 Resp: 274926  
Ion Ratio Lower Upper  
106 100  
91 220.4 154.3 286.5

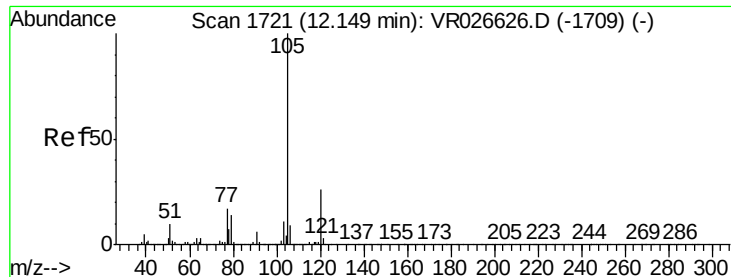


#55  
Styrene  
Concen: 5.593 ug/L  
RT: 11.86 min Scan# 1674  
Delta R.T. 0.00 min  
Lab File: VR026626.D  
Acq: 12 Sep 2019 18:36

Tgt Ion:104 Resp: 396664  
Ion Ratio Lower Upper  
104 100  
78 46.4 32.5 60.3







#56

Isopropylbenzene

Concen: 5.627 ug/L

RT: 12.15 min Scan# 1721

Delta R.T. 0.00 min

Lab File: VR026626.D

Acq: 12 Sep 2019 18:36

Instrument :

MSVOA\_R

ClientSampleId :

VSTD00565

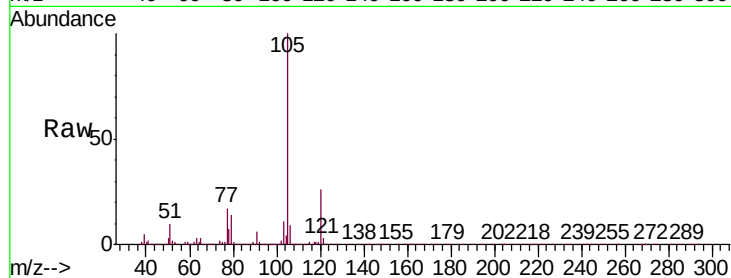
Tgt Ion: 105 Resp: 798125

Ion Ratio Lower Upper

105 100

120 25.9 20.7 31.1

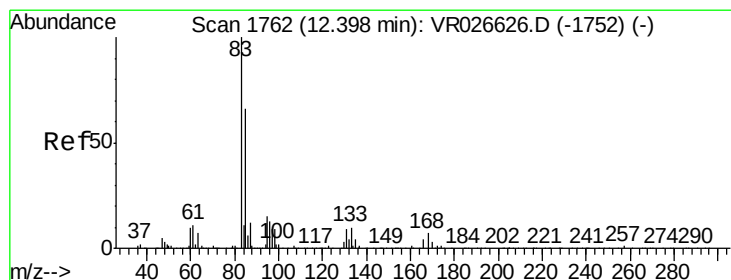
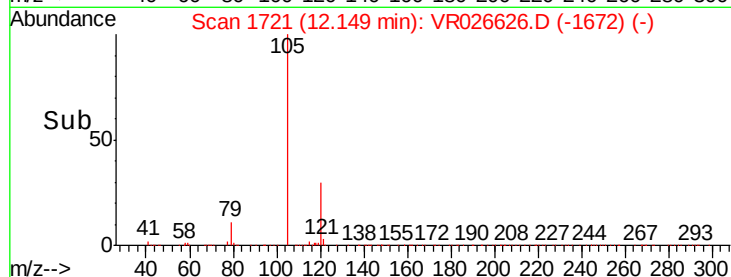
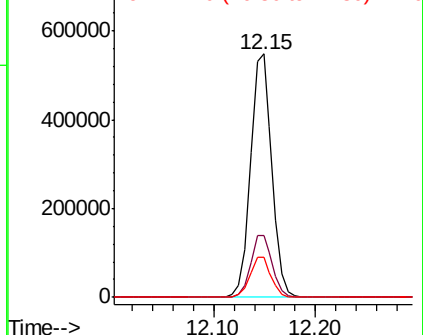
77 16.6 13.3 19.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VR0



#58

1,1,2,2-Tetrachloroethane

Concen: 5.096 ug/L

RT: 12.40 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VR026626.D

Acq: 12 Sep 2019 18:36

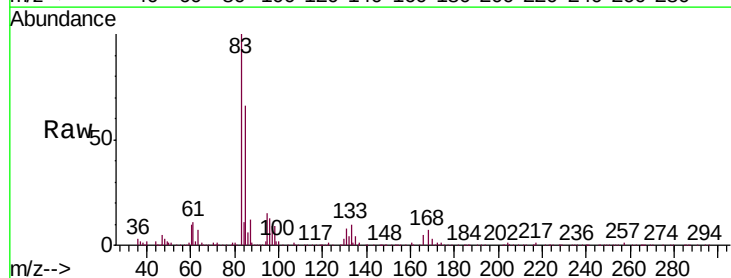
Tgt Ion: 83 Resp: 70318

Ion Ratio Lower Upper

83 100

85 65.9 46.1 85.7

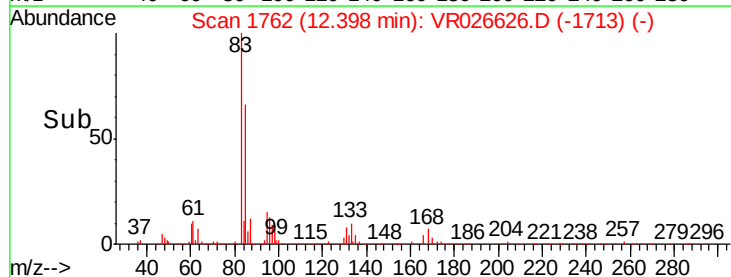
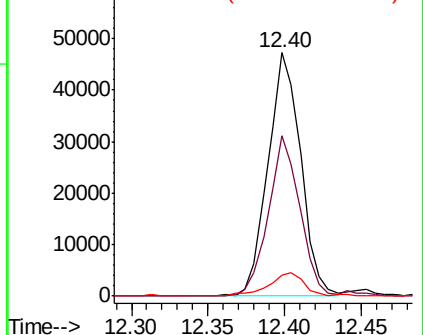
131 8.5 6.8 10.2

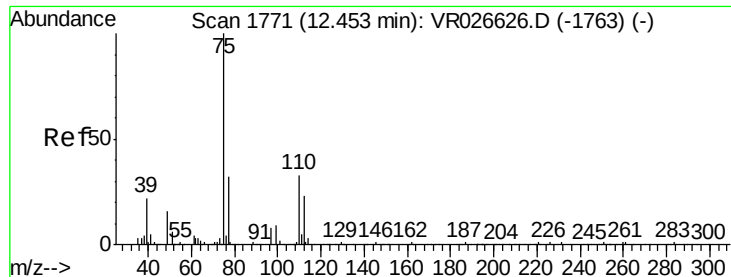


Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 130.95 (130.65 to 131.65): V

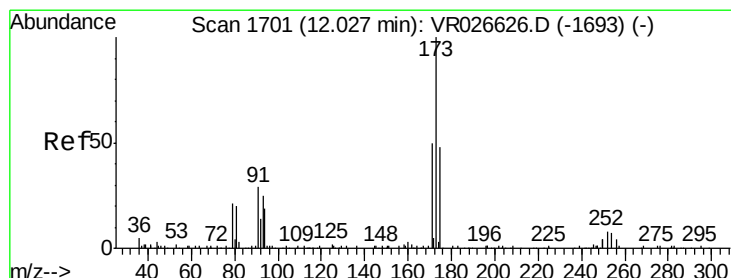
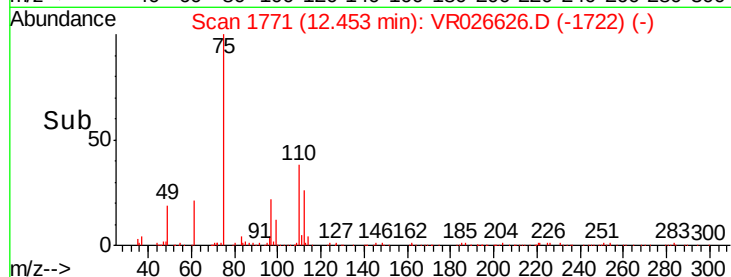
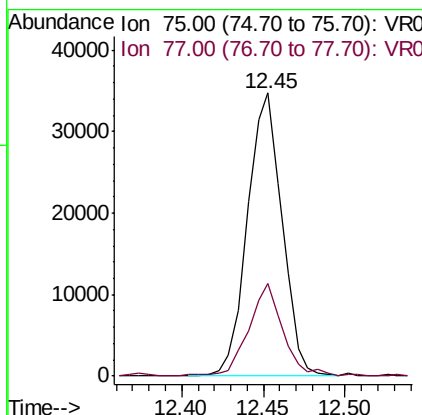
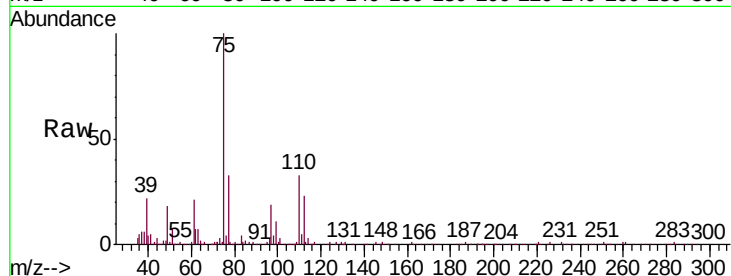




#59  
 1,2,3-Trichloropropane  
 Concen: 5.065 ug/L  
 RT: 12.45 min Scan# 1771  
 Delta R.T. 0.00 min  
 Lab File: VR026626.D  
 Acq: 12 Sep 2019 18:36

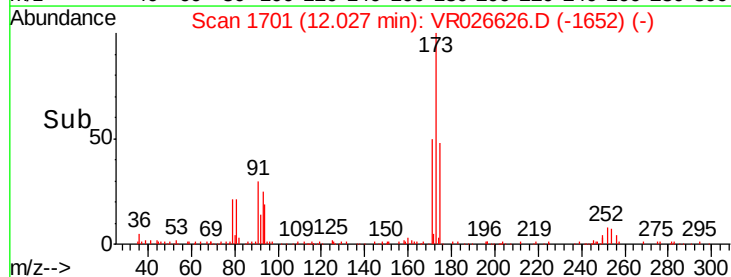
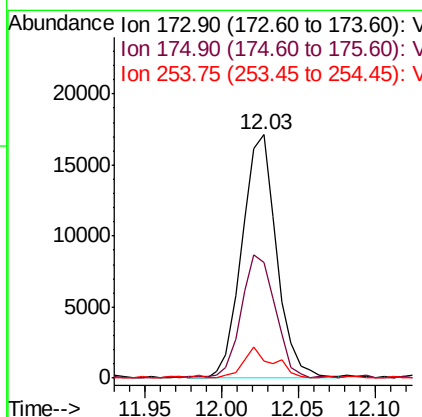
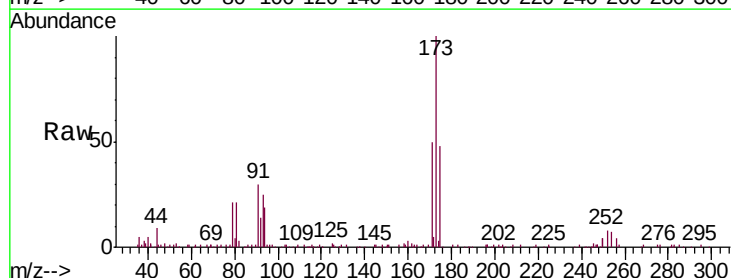
Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00565

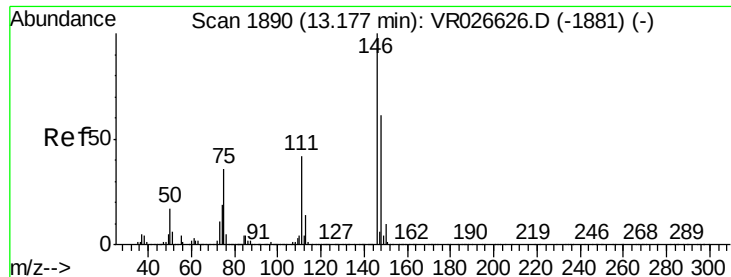
Tgt Ion: 75 Resp: 51182  
 Ion Ratio Lower Upper  
 75 100  
 77 32.2 25.8 38.6



#61  
 Bromoform  
 Concen: 4.776 ug/L  
 RT: 12.03 min Scan# 1701  
 Delta R.T. 0.00 min  
 Lab File: VR026626.D  
 Acq: 12 Sep 2019 18:36

Tgt Ion: 173 Resp: 26817  
 Ion Ratio Lower Upper  
 173 100  
 175 50.2 40.2 60.2  
 254 10.9 8.7 13.1





#62

1,3-Dichlorobenzene

Concen: 5.162 ug/L

RT: 13.18 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VR026626.D

Acq: 12 Sep 2019 18:36

Instrument :

MSVOA\_R

ClientSampleId :

VSTD00565

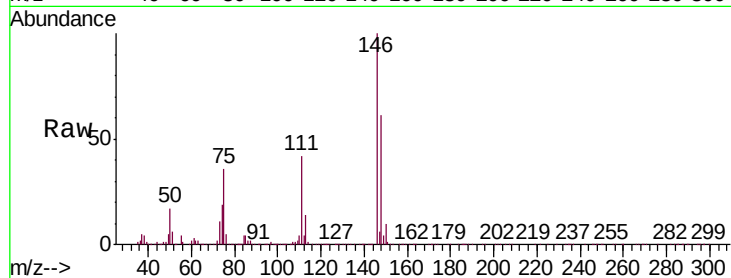
Tgt Ion:146 Resp: 270758

Ion Ratio Lower Upper

146 100

111 42.2 29.5 54.9

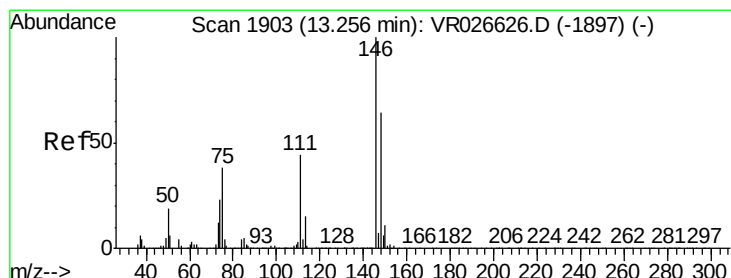
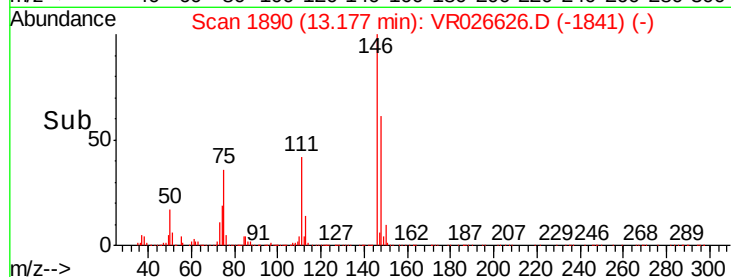
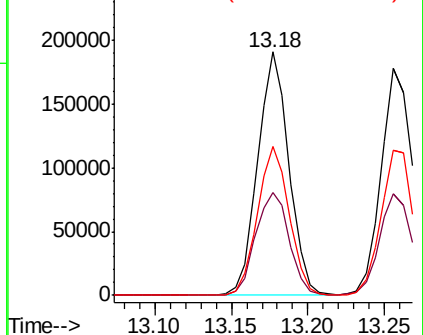
148 61.1 42.8 79.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 5.028 ug/L

RT: 13.26 min Scan# 1903

Delta R.T. 0.00 min

Lab File: VR026626.D

Acq: 12 Sep 2019 18:36

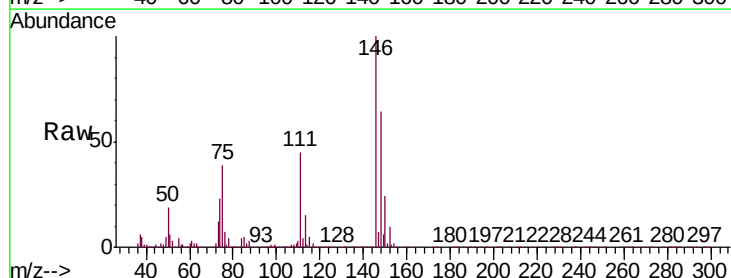
Tgt Ion:146 Resp: 253630

Ion Ratio Lower Upper

146 100

111 44.5 31.1 57.9

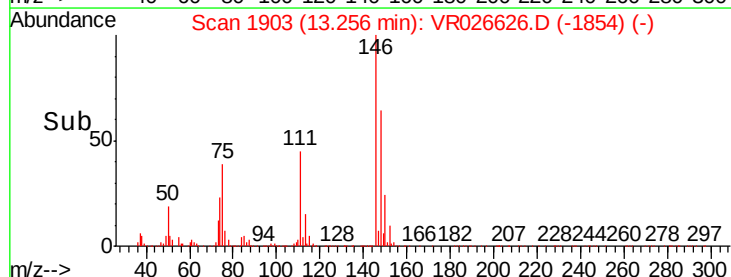
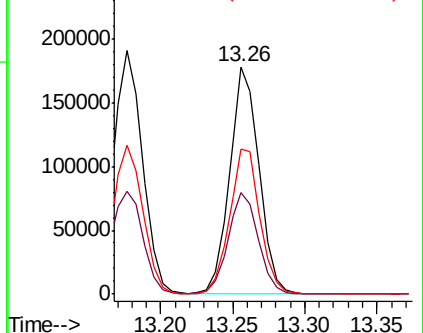
148 63.7 44.6 82.8

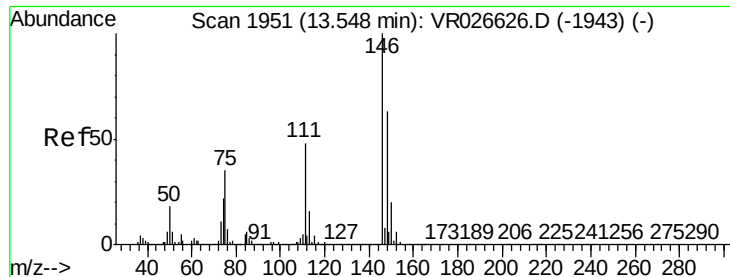


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

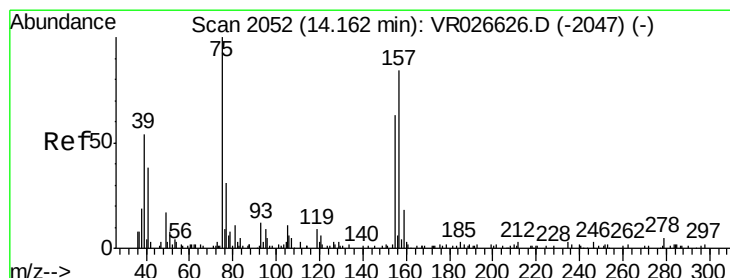
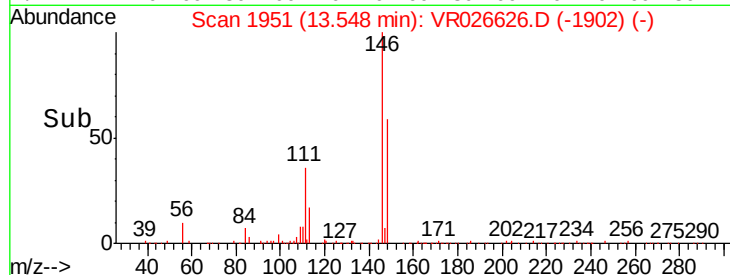
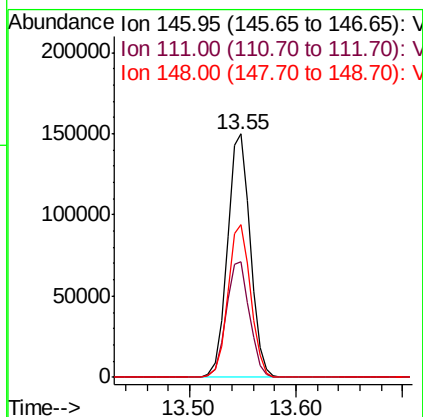
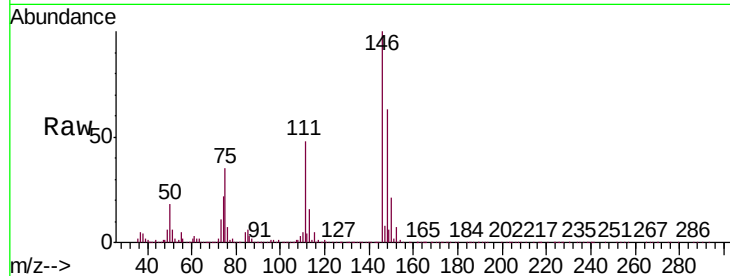




#65  
 1,2-Dichlorobenzene  
 Concen: 5.146 ug/L  
 RT: 13.55 min Scan# 1951  
 Delta R.T. 0.00 min  
 Lab File: VR026626.D  
 Acq: 12 Sep 2019 18:36

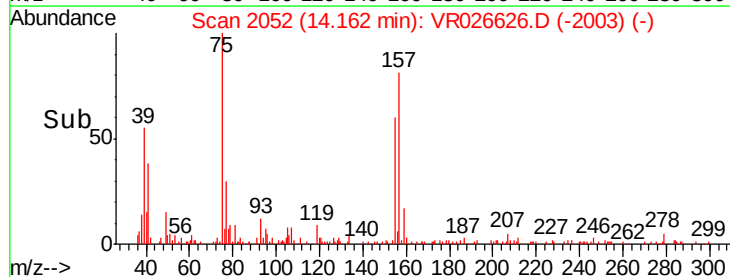
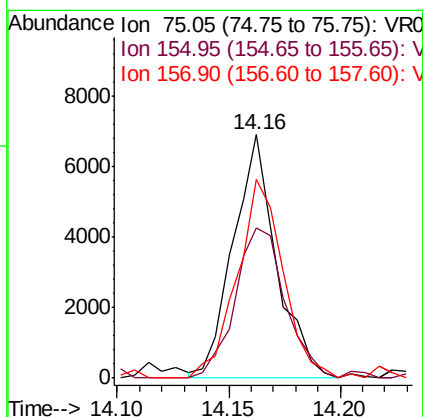
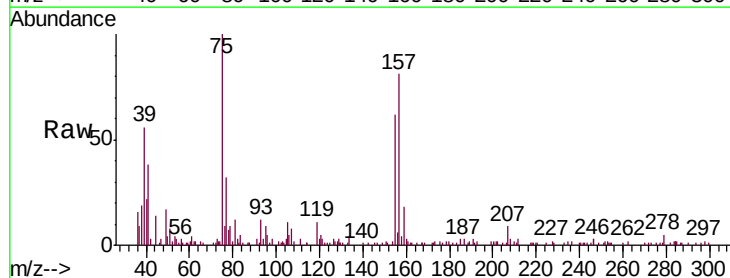
Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00565

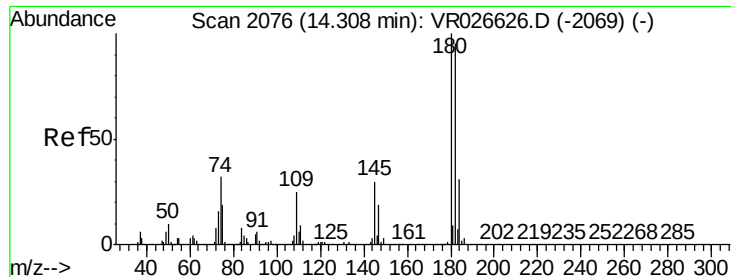
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 47.7  | 38.2  | 57.2  |
| 148     | 62.6  | 50.1  | 75.1  |



#66  
 1,2-Dibromo-3-chloropropane  
 Concen: 4.218 ug/L  
 RT: 14.16 min Scan# 2052  
 Delta R.T. 0.00 min  
 Lab File: VR026626.D  
 Acq: 12 Sep 2019 18:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 155     | 61.8  | 49.4  | 74.2  |
| 157     | 81.5  | 65.2  | 97.8  |

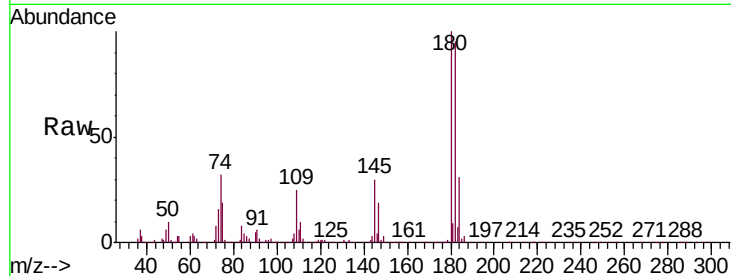




#67  
 1,3,5-Trichlorobenzene  
 Concen: 5.143 ug/L  
 RT: 14.31 min Scan# 2076  
 Delta R.T. 0.00 min  
 Lab File: VR026626.D  
 Acq: 12 Sep 2019 18:36

Instrument :  
 MSVOA\_R  
 ClientSampleId :  
 VSTD00565

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 217122 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.4  | 76.3  | 114.5  |
| 184      | 30.5  | 24.4  | 36.6   |
| 145      | 31.4  | 25.1  | 37.7   |



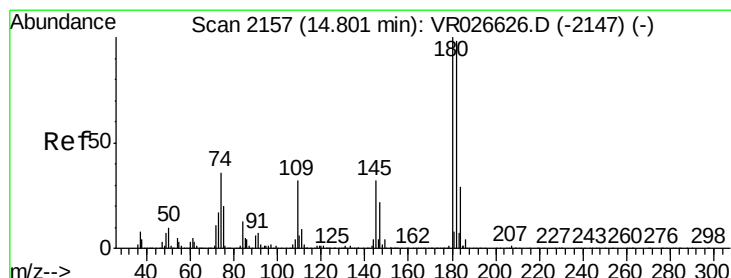
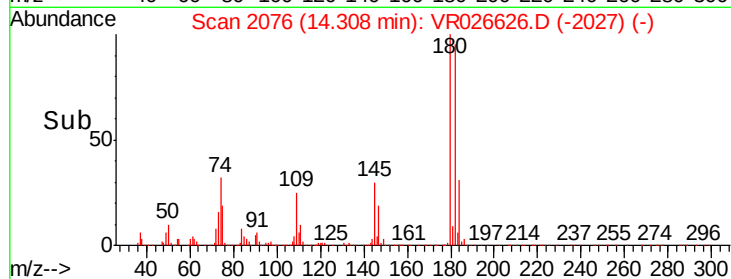
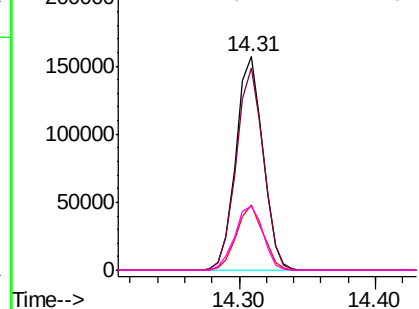
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

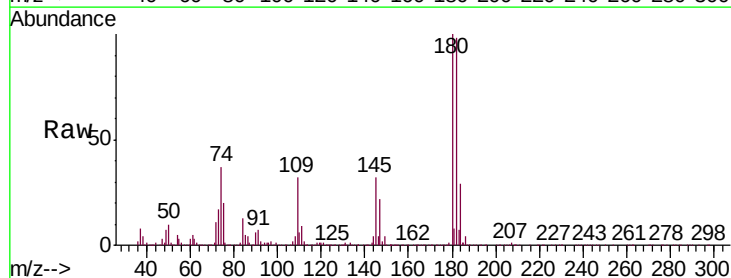
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68  
 1,2,4-trichlorobenzene  
 Concen: 5.026 ug/L  
 RT: 14.80 min Scan# 2157  
 Delta R.T. 0.00 min  
 Lab File: VR026626.D  
 Acq: 12 Sep 2019 18:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 154875 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 93.9  | 75.1  | 112.7  |
| 145      | 32.4  | 25.9  | 38.9   |

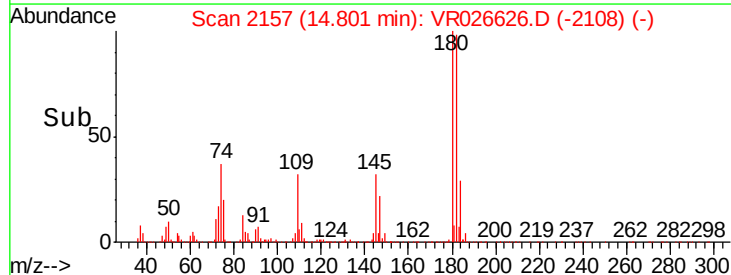
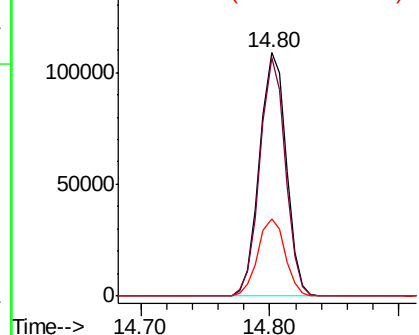


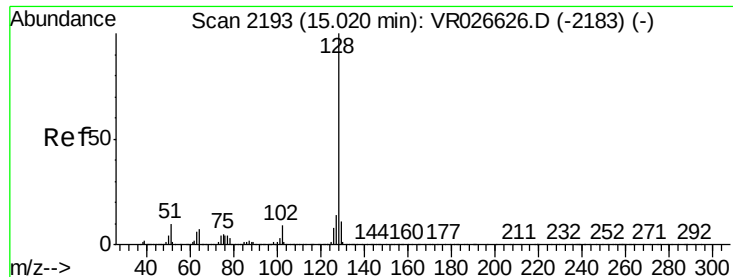
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.925 ug/L

RT: 15.02 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VR026626.D

Acq: 12 Sep 2019 18:36

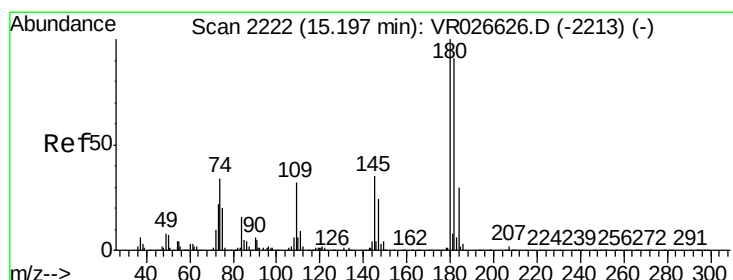
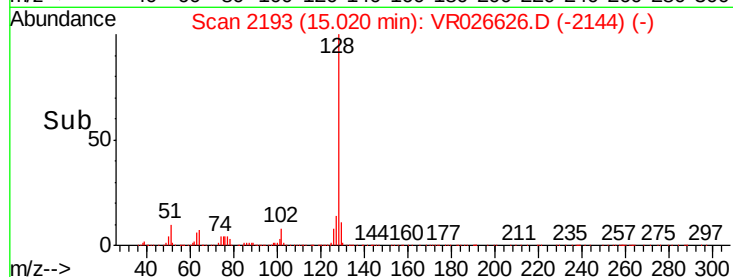
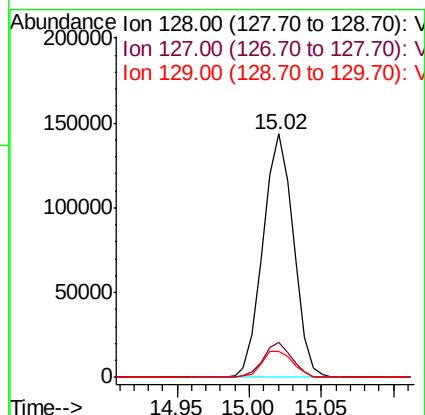
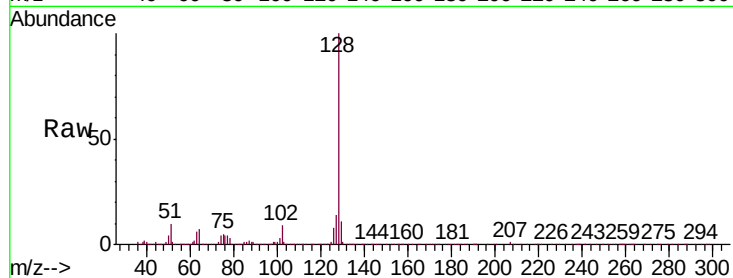
Instrument :

MSVOA\_R

ClientSampleId :

VSTD00565

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 210260 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 127      | 13.5  | 10.8  | 16.2   |
| 129      | 11.1  | 8.9   | 13.3   |



#70

1,2,3-Trichlorobenzene

Concen: 5.097 ug/L

RT: 15.20 min Scan# 2222

Delta R.T. 0.00 min

Lab File: VR026626.D

Acq: 12 Sep 2019 18:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 131303 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 95.3  | 76.2  | 114.4  |
| 145      | 35.7  | 28.6  | 42.8   |

