

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL050525\  
 Data File : VL042483.D  
 Acq On : 05 May 2025 19:15  
 Operator : SY/MD  
 Sample : Q1927-06  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

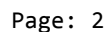
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 EBR-P04-SC-IA01-20250428

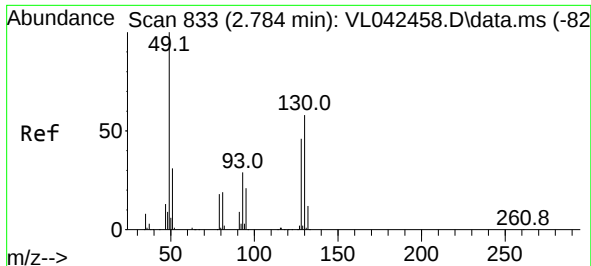
Quant Time: May 06 01:45:26 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Fri May 02 03:16:31 2025  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|------------------------------|--------|-------|----------|----------|------------|----------|
| -----                        |        |       |          |          |            |          |
| Internal Standards           |        |       |          |          |            |          |
| 1) Bromochloromethane        | 2.787  | 49    | 69784    | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene      | 3.959  | 114   | 186712   | 10.000   | ppbv       | 0.00     |
| 55) Chlorobenzene-d5         | 8.882  | 117   | 154199   | 10.000   | ppbv       | 0.00     |
| System Monitoring Compounds  |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene  | 10.377 | 95    | 143708   | 10.052   | ppbv       | 0.00     |
| Spiked Amount                | 10.000 | Range | 65 - 135 | Recovery | = 100.500% |          |
| Target Compounds             |        |       |          |          |            |          |
|                              |        |       |          |          | Qvalue     |          |
| 2) Dichlorodifluoromethane   | 1.496  | 85    | 6496     | 0.563    | ppbv       | 95       |
| 3) Chlorodifluoromethane     | 1.463  | 51    | 79921    | 6.546    | ppbv #     | 59       |
| 4) Chloromethane             | 1.531  | 50    | 2807     | 0.582    | ppbv       | 97       |
| 6) Bromomethane              | 1.664  | 94    | 113      | 0.049    | ppbv #     | 6        |
| 7) Chloroethane              | 1.525  | 64    | 275      | 0.153    | ppbv #     | 79       |
| 8) Dichlorotetrafluoroethane | 1.551  | 85    | 318      | 0.033    | ppbv #     | 70       |
| 9) Propene                   | 1.441  | 41    | 316      | 0.079    | ppbv       | 91       |
| 11) Trichlorofluoromethane   | 1.878  | 101   | 2631     | 0.247    | ppbv       | 100      |
| 13) Ethanol                  | 1.722  | 45    | 16777    | 20.702   | ppbv #     | 37       |
| 15) Acetone                  | 1.835  | 43    | 43287    | 3.398    | ppbv       | 99       |
| 16) 1,3-Butadiene            | 1.619  | 39    | 2747     | 0.489    | ppbv #     | 15       |
| 17) tert-Butyl alcohol       | 2.049  | 59    | 861      | 0.077    | ppbv #     | 57       |
| 19) Isopropyl Alcohol        | 1.887  | 45    | 18608    | 2.639    | ppbv #     | 98       |
| 20) Methylene Chloride       | 2.062  | 84    | 1623     | 0.424    | ppbv #     | 91       |
| 23) Vinyl Acetate            | 2.460  | 43    | 922      | 0.076    | ppbv #     | 12       |
| 25) Ethyl Acetate            | 2.842  | 43    | 1696     | 0.083    | ppbv #     | 84       |
| 26) Hexane                   | 2.829  | 57    | 478      | 0.054    | ppbv #     | 1        |
| 34) 2-Butanone               | 2.567  | 43    | 3685     | 0.273    | ppbv       | 98       |
| 35) Carbon Tetrachloride     | 3.755  | 117   | 529      | 0.031    | ppbv       | 86       |
| 39) 1,2-Dichloropropane      | 3.959  | 63    | 56313    | 8.537    | ppbv #     | 19       |
| 53) Toluene                  | 6.930  | 91    | 849      | 0.046    | ppbv #     | 1        |
| 74) 1,2,4-Trimethylbenzene   | 11.539 | 105   | 1191     | 0.044    | ppbv #     | 50       |
| -----                        |        |       |          |          |            |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quant Time: May 06 01:45:26 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL050125AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Fri May 02 03:16:31 2025  
Response via : Initial Calibration

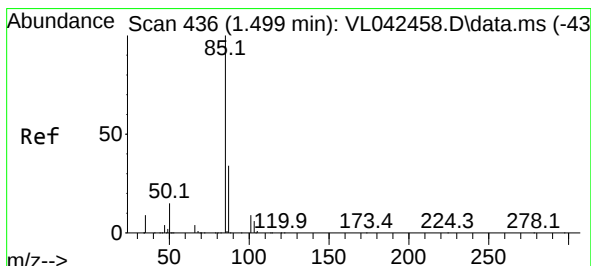
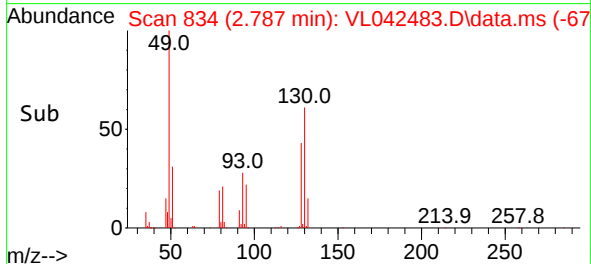
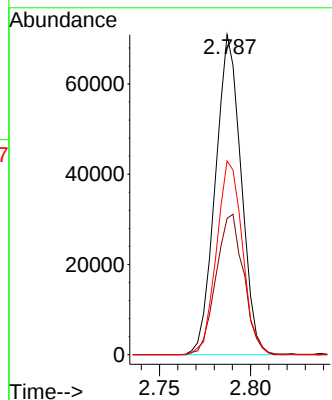
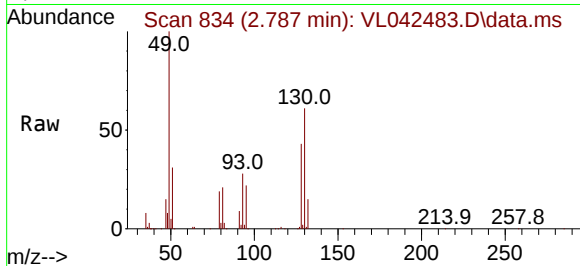




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.787 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL042483.D  
Acq: 05 May 2025 19:15

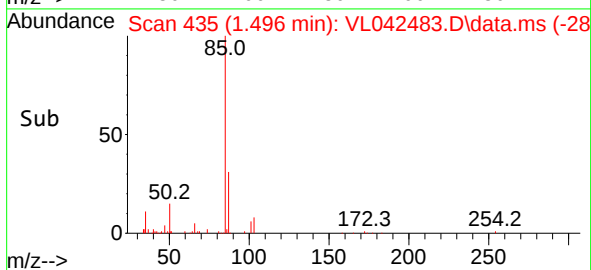
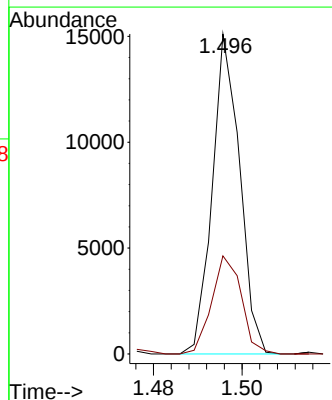
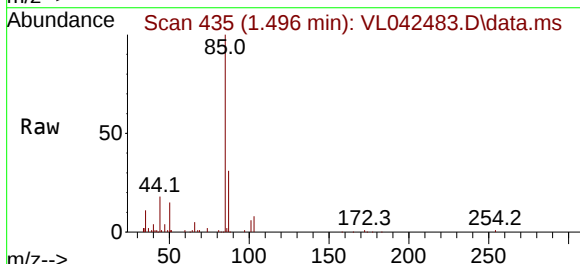
Instrument :  
MSVOA\_L  
ClientSampleId :  
EBR-P04-SC-IA01-20250428

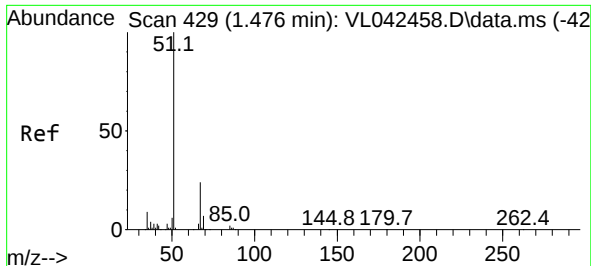
Tgt Ion: 49 Resp: 69784  
Ion Ratio Lower Upper  
49 100  
128 47.0 23.3 69.9  
130 61.0 29.5 88.6



#2  
Dichlorodifluoromethane  
Concen: 0.563 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. -0.003 min  
Lab File: VL042483.D  
Acq: 05 May 2025 19:15

Tgt Ion: 85 Resp: 6496  
Ion Ratio Lower Upper  
85 100  
87 30.6 26.9 40.3

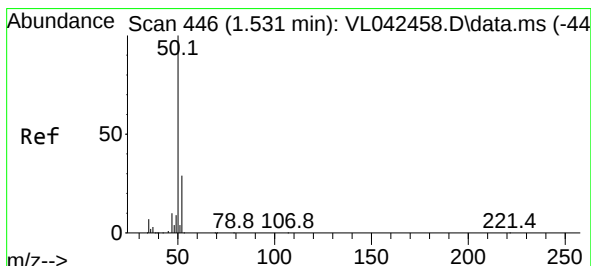
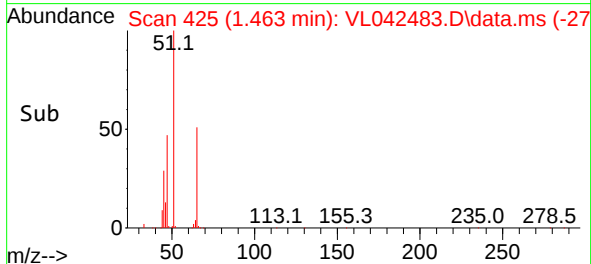
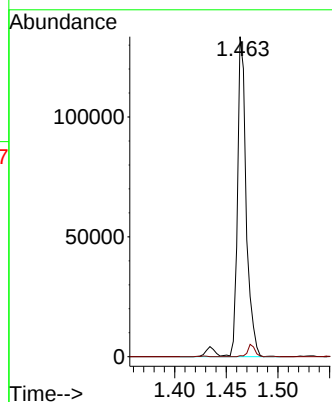
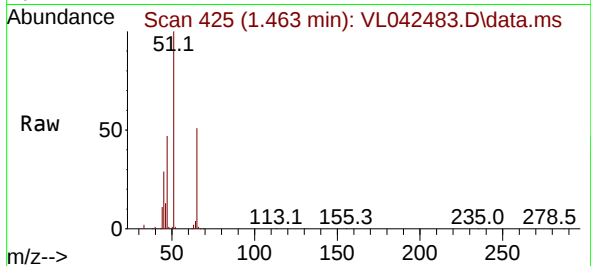




#3  
Chlorodifluoromethane  
Concen: 6.546 ppbv  
RT: 1.463 min Scan# 41  
Delta R.T. -0.013 min  
Lab File: VL042483.D  
Acq: 05 May 2025 19:15

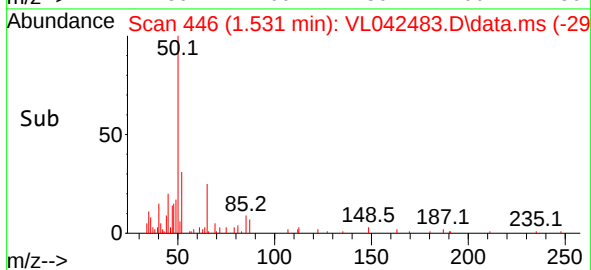
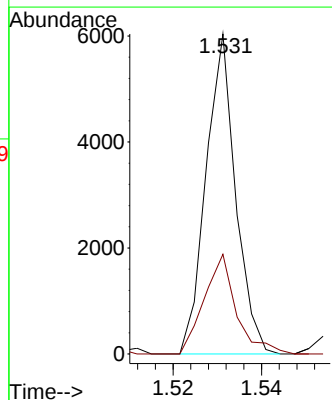
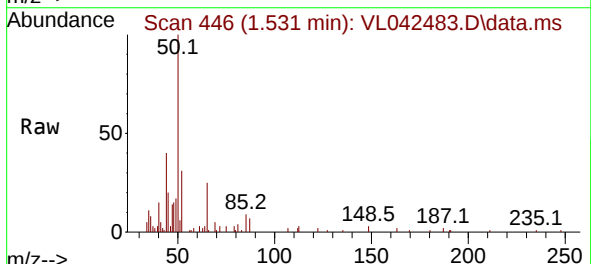
Instrument :  
MSVOA\_L  
ClientSampleId :  
EBR-P04-SC-IA01-20250428

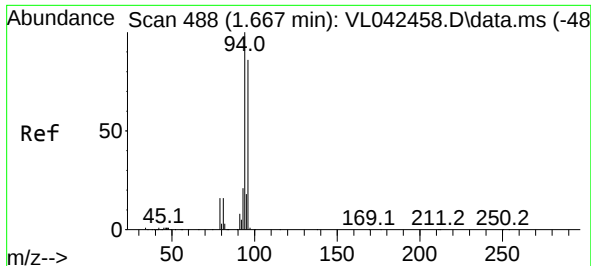
Tgt Ion: 51 Resp: 79921  
Ion Ratio Lower Upper  
51 100  
67 3.1 18.4 27.6#



#4  
Chloromethane  
Concen: 0.582 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. 0.000 min  
Lab File: VL042483.D  
Acq: 05 May 2025 19:15

Tgt Ion: 50 Resp: 2807  
Ion Ratio Lower Upper  
50 100  
52 31.2 23.5 35.3

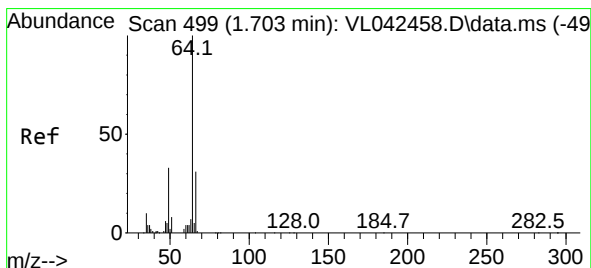
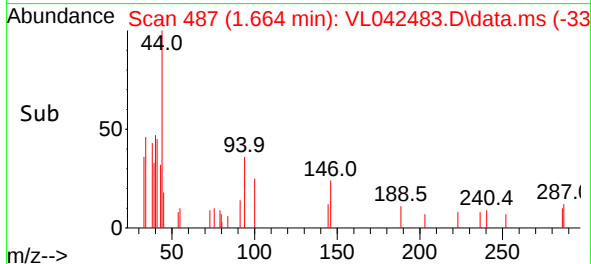
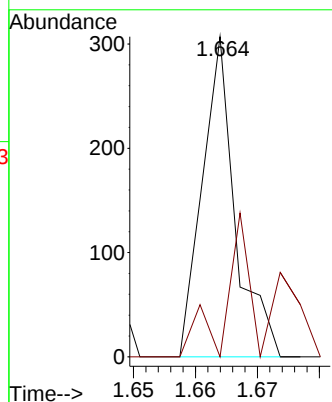
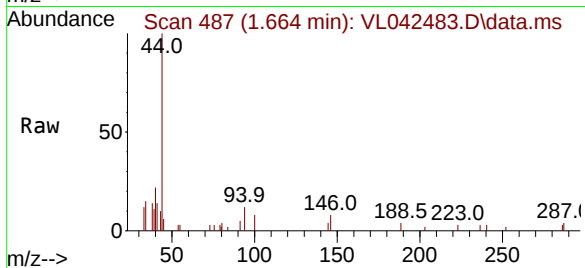




#6  
Bromomethane  
Concen: 0.049 ppbv  
RT: 1.664 min Scan# 411  
Delta R.T. -0.003 min  
Lab File: VL042483.D  
Acq: 05 May 2025 19:15

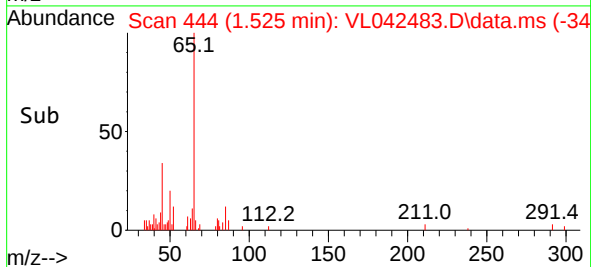
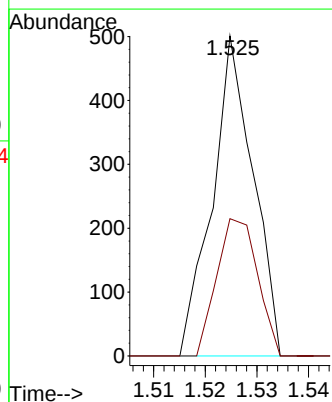
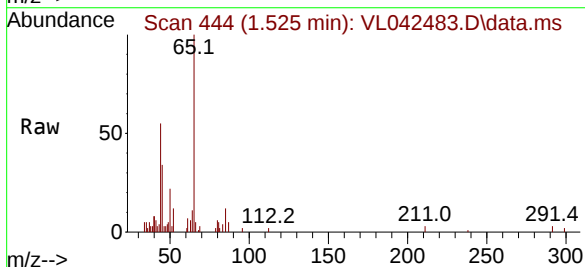
Instrument :  
MSVOA\_L  
ClientSampleId :  
EBR-P04-SC-IA01-20250428

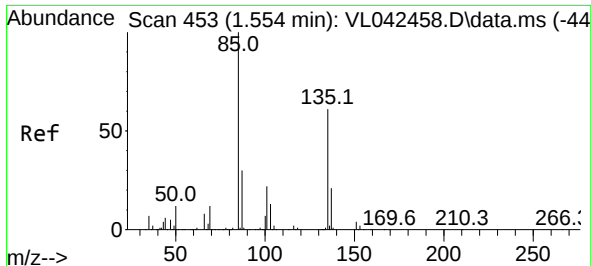
Tgt Ion: 94 Resp: 113  
Ion Ratio Lower Upper  
94 100  
96 0.0 68.8 103.2#



#7  
Chloroethane  
Concen: 0.153 ppbv  
RT: 1.525 min Scan# 444  
Delta R.T. -0.178 min  
Lab File: VL042483.D  
Acq: 05 May 2025 19:15

Tgt Ion: 64 Resp: 275  
Ion Ratio Lower Upper  
64 100  
66 42.9 25.0 37.4#

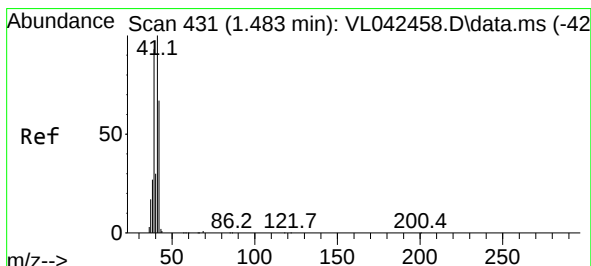
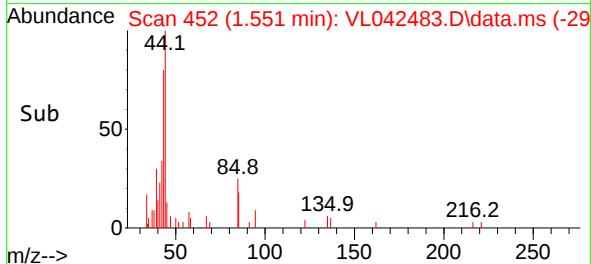
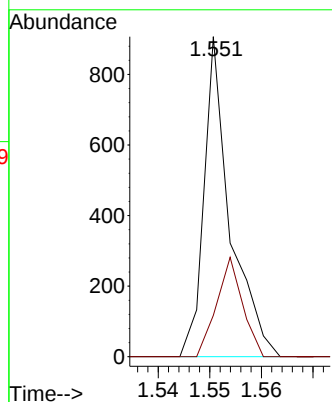
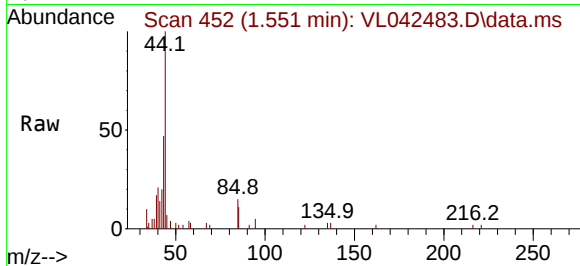




#8  
 Dichlorotetrafluoroethane  
 Concen: 0.033 ppbv  
 RT: 1.551 min Scan# 418  
 Delta R.T. -0.003 min  
 Lab File: VL042483.D  
 Acq: 05 May 2025 19:15

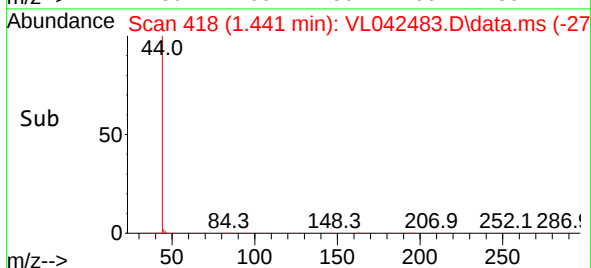
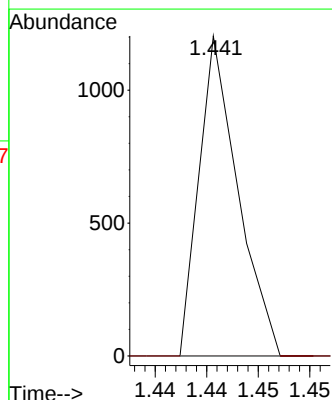
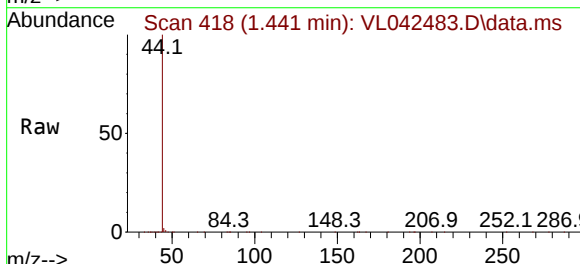
Instrument : MSVOA\_1  
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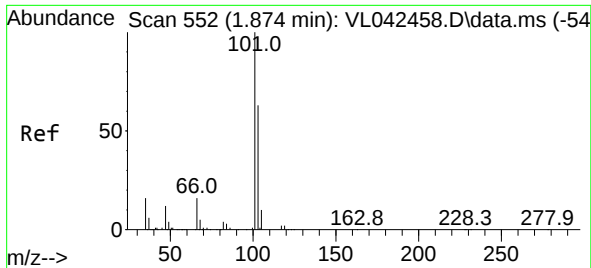
Tgt Ion: 85 Resp: 318  
 Ion Ratio Lower Upper  
 85 100  
 135 39.0 49.8 74.8#



#9  
 Propene  
 Concen: 0.079 ppbv  
 RT: 1.441 min Scan# 418  
 Delta R.T. -0.042 min  
 Lab File: VL042483.D  
 Acq: 05 May 2025 19:15

Tgt Ion: 41 Resp: 316  
 Ion Ratio Lower Upper  
 41 100  
 42 60.8 54.3 81.5

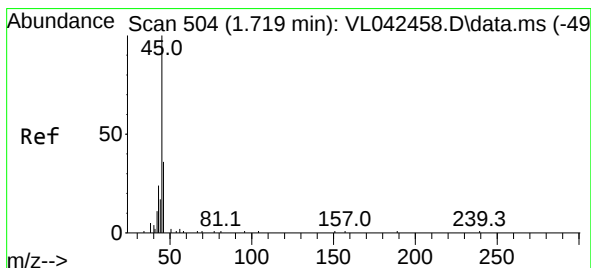
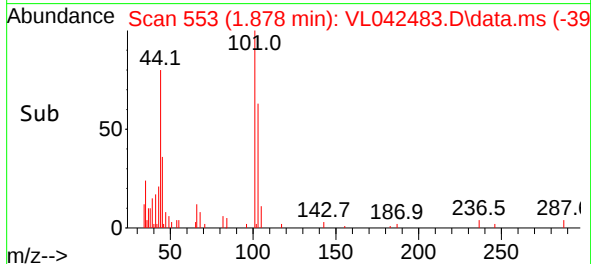
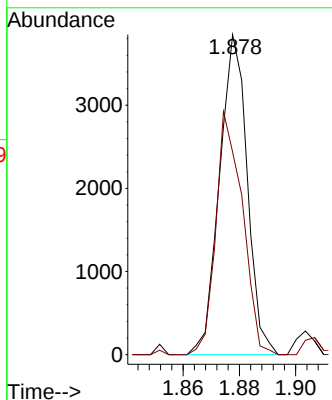
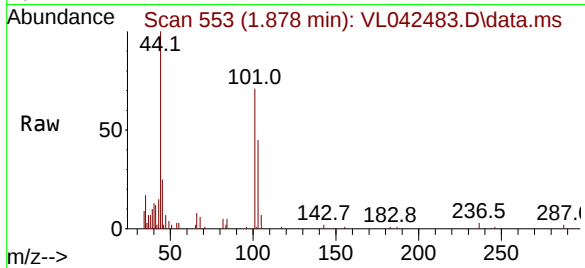




#11  
 Trichlorofluoromethane  
 Concen: 0.247 ppbv  
 RT: 1.878 min Scan# 505  
 Delta R.T. 0.003 min  
 Lab File: VL042483.D  
 Acq: 05 May 2025 19:15

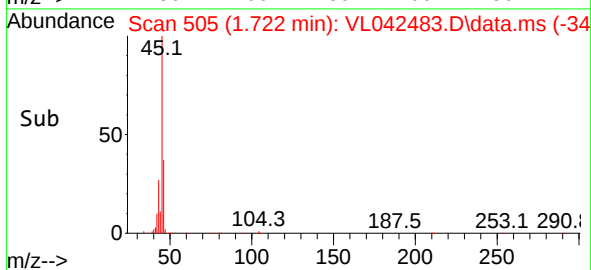
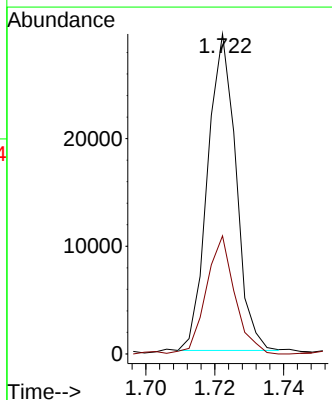
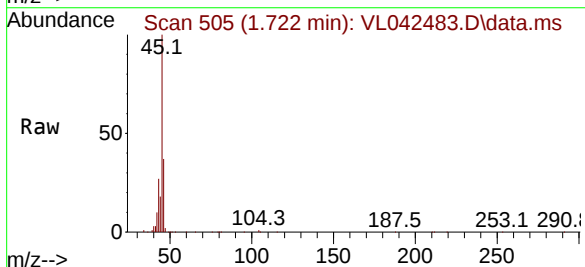
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 EBR-P04-SC-IA01-20250428

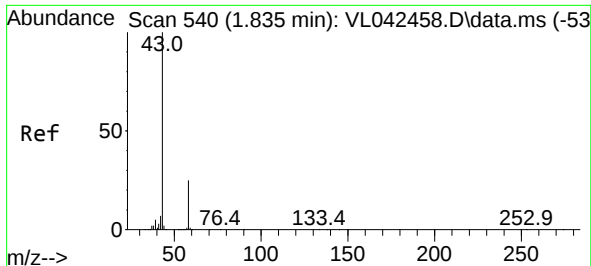
Tgt Ion:101 Resp: 2631  
 Ion Ratio Lower Upper  
 101 100  
 103 63.4 50.6 76.0



#13  
 Ethanol  
 Concen: 20.702 ppbv  
 RT: 1.722 min Scan# 505  
 Delta R.T. 0.003 min  
 Lab File: VL042483.D  
 Acq: 05 May 2025 19:15

Tgt Ion: 45 Resp: 16777  
 Ion Ratio Lower Upper  
 45 100  
 46 0.0 15.3 61.1#

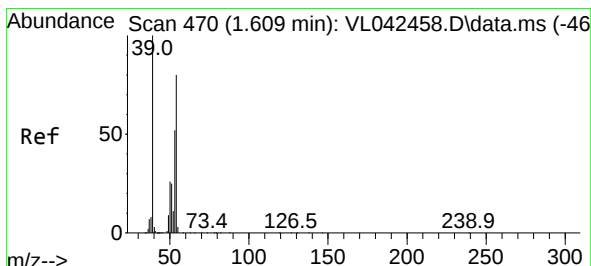
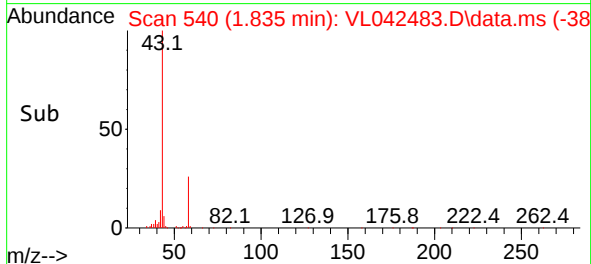
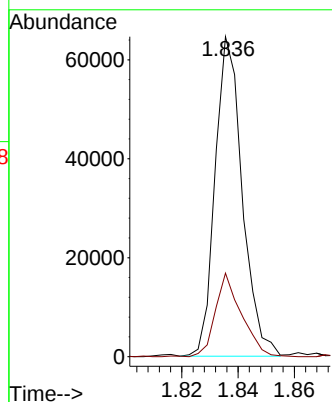
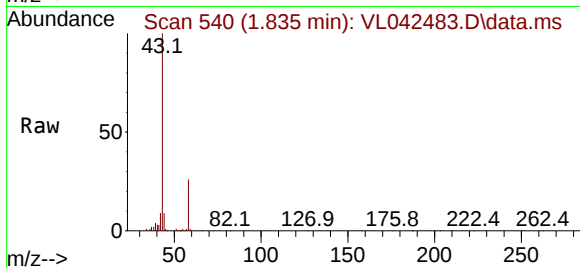




#15  
Acetone  
Concen: 3.398 ppbv  
RT: 1.835 min Scan# 540  
Delta R.T. 0.000 min  
Lab File: VL042483.D  
Acq: 05 May 2025 19:15

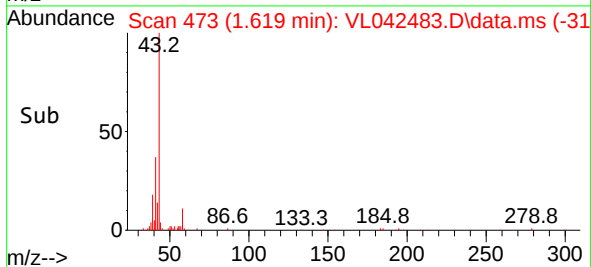
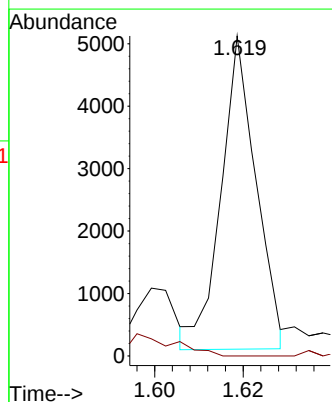
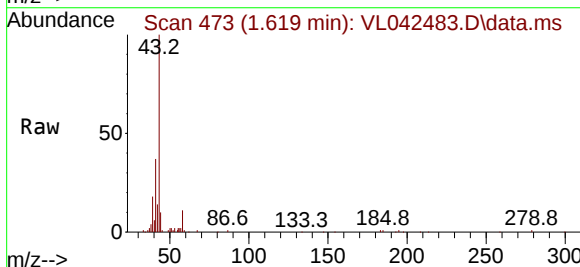
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MSVOA\_L  
ClientSampleId :  
EBR-P04-SC-IA01-20250428

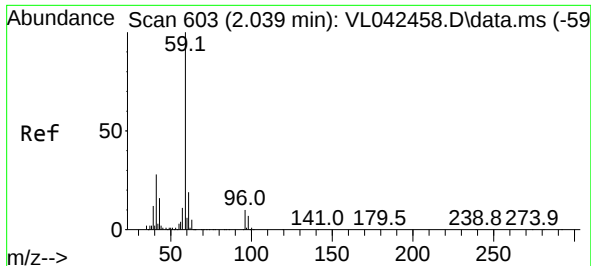
Tgt Ion: 43 Resp: 43287  
Ion Ratio Lower Upper  
43 100  
58 25.1 19.8 29.8



#16  
1,3-Butadiene  
Concen: 0.489 ppbv  
RT: 1.619 min Scan# 473  
Delta R.T. 0.010 min  
Lab File: VL042483.D  
Acq: 05 May 2025 19:15

Tgt Ion: 39 Resp: 2747  
Ion Ratio Lower Upper  
39 100  
54 0.0 55.2 82.8#





#17

tert-Butyl alcohol

Concen: 0.077 ppbv

RT: 2.049 min Scan# 603

Delta R.T. 0.010 min

Lab File: VL042483.D

Acq: 05 May 2025 19:15

Instrument :

MSVOA\_L

ClientSampleId :

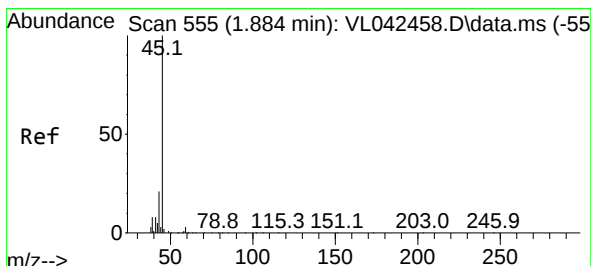
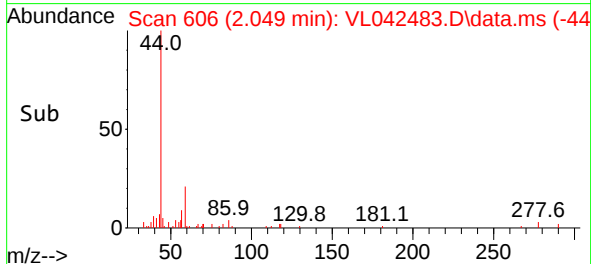
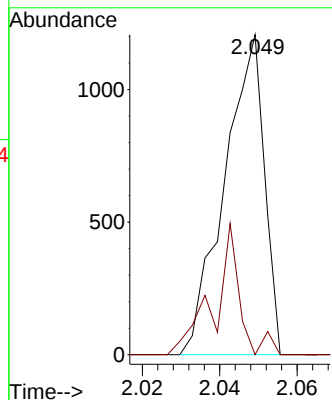
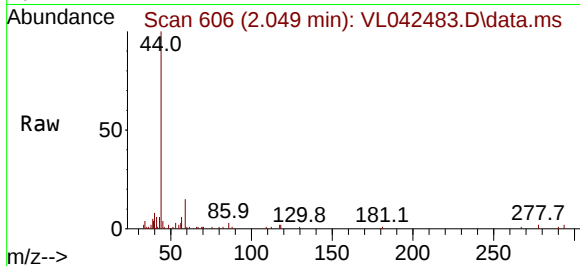
EBR-P04-SC-IA01-20250428

Tgt Ion: 59 Resp: 861

Ion Ratio Lower Upper

59 100

57 26.6 8.3 12.5#



#19

Isopropyl Alcohol

Concen: 2.639 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042483.D

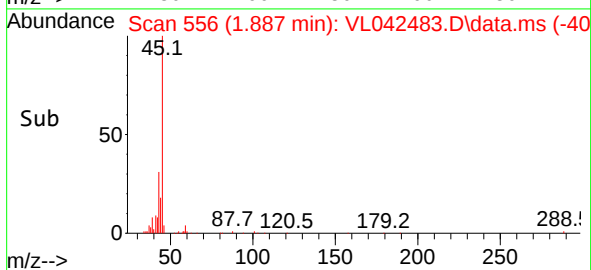
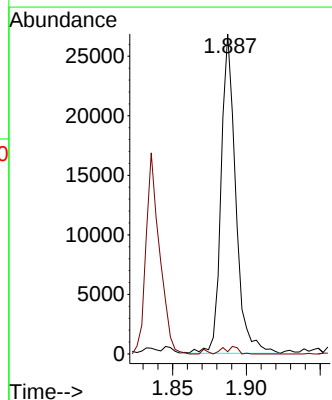
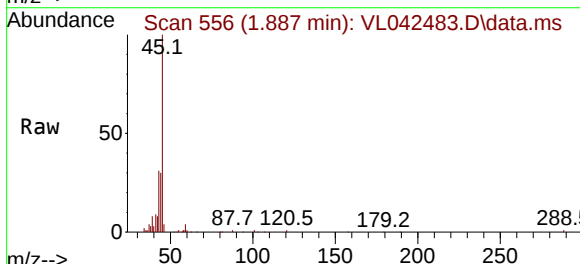
Acq: 05 May 2025 19:15

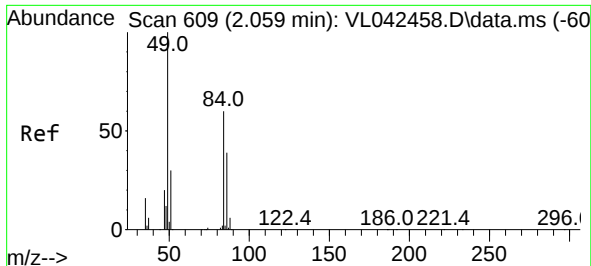
Tgt Ion: 45 Resp: 18608

Ion Ratio Lower Upper

45 100

58 2.8 1.6 2.4#





#20

Methylene Chloride

Concen: 0.424 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL042483.D

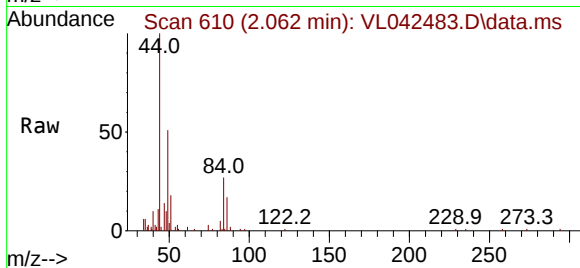
Acq: 05 May 2025 19:15

Instrument :

MSVOA\_L

ClientSampleId :

EBR-P04-SC-IA01-20250428



Tgt Ion: 84 Resp: 1623

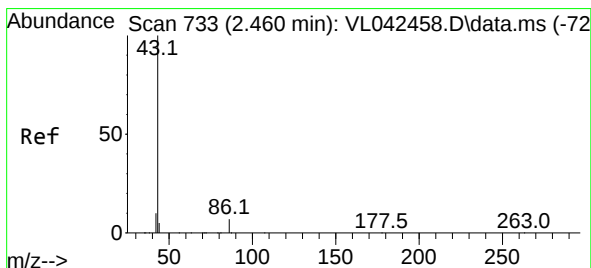
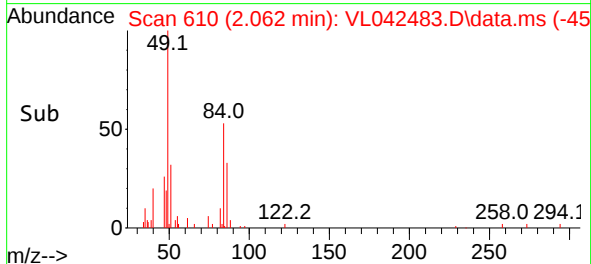
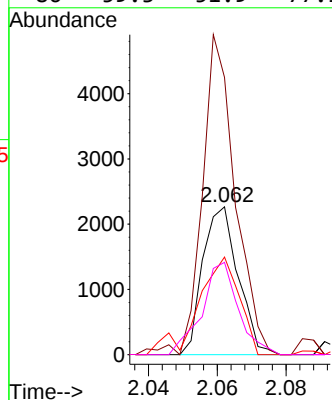
Ion Ratio Lower Upper

84 100

49 177.9 133.9 200.9

51 62.7 41.0 61.6#

86 59.3 51.9 77.9



#23

Vinyl Acetate

Concen: 0.076 ppbv

RT: 2.460 min Scan# 733

Delta R.T. 0.000 min

Lab File: VL042483.D

Acq: 05 May 2025 19:15

Tgt Ion: 43 Resp: 922

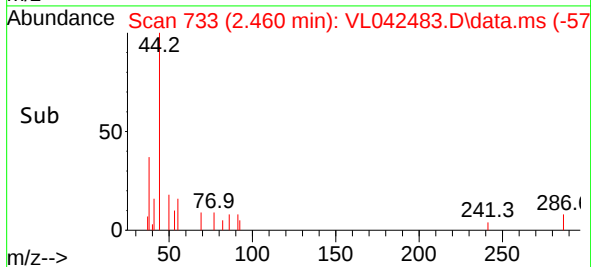
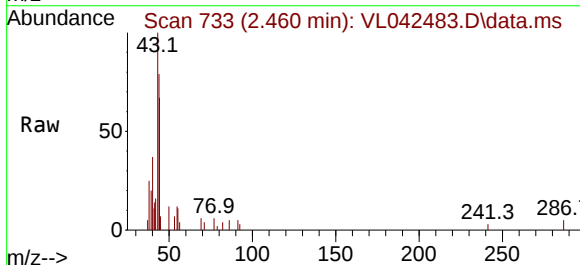
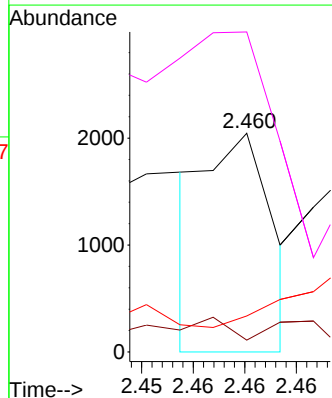
Ion Ratio Lower Upper

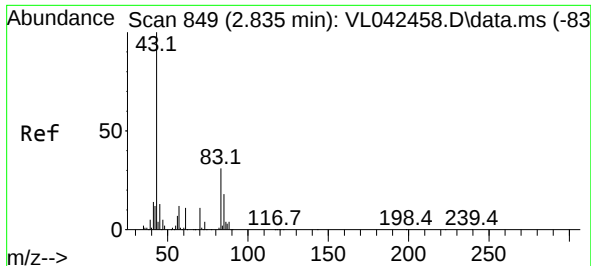
43 100

86 0.0 5.5 8.3#

42 7.8 8.3 12.5#

44 111.2 4.6 7.0#

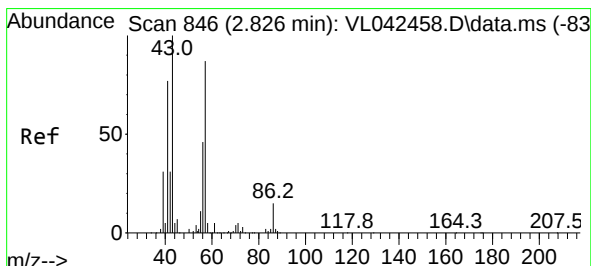
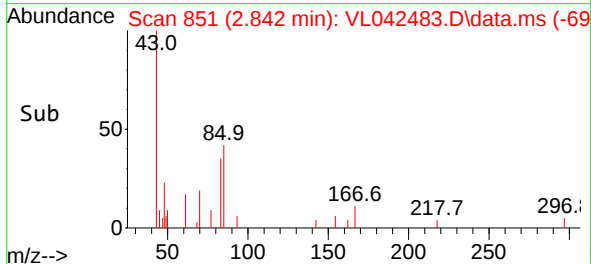
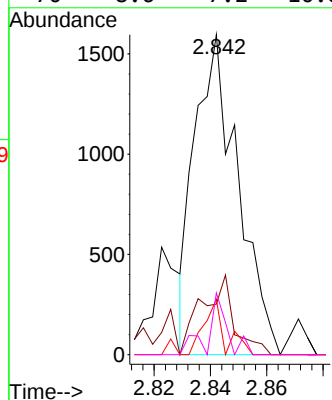
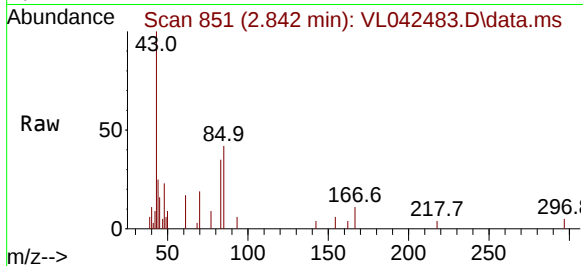




#25  
Ethyl Acetate  
Concen: 0.083 ppbv  
RT: 2.842 min Scan# 849  
Delta R.T. 0.007 min  
Lab File: VL042483.D  
Acq: 05 May 2025 19:15

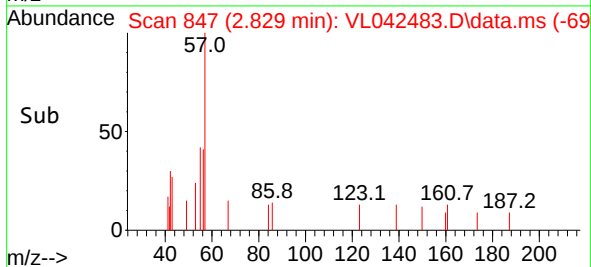
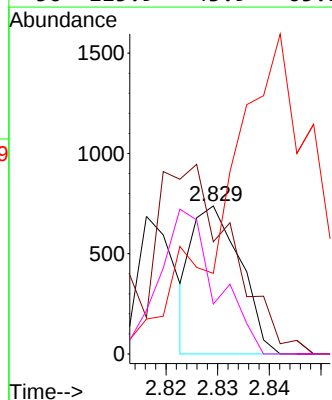
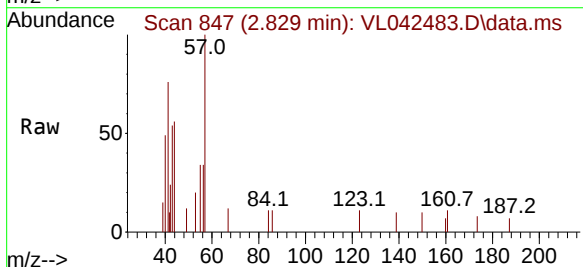
Instrument :  
MSVOA\_L  
ClientSampleId :  
EBR-P04-SC-IA01-20250428

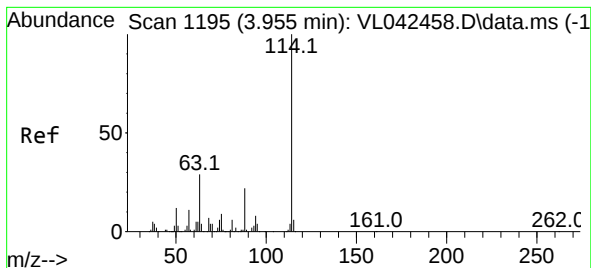
|             |                |
|-------------|----------------|
| Tgt Ion: 43 | Resp: 1696     |
| Ion Ratio   | Lower Upper    |
| 43          | 100            |
| 45          | 25.5 7.8 11.6# |
| 61          | 9.4 7.2 10.8   |
| 70          | 8.6 7.2 10.8   |



#26  
Hexane  
Concen: 0.054 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.003 min  
Lab File: VL042483.D  
Acq: 05 May 2025 19:15

|             |                    |
|-------------|--------------------|
| Tgt Ion: 57 | Resp: 478          |
| Ion Ratio   | Lower Upper        |
| 57          | 100                |
| 41          | 225.7 77.8 116.8#  |
| 43          | 445.0 187.0 280.6# |
| 56          | 115.9 43.9 65.9#   |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.003 min

Lab File: VL042483.D

Acq: 05 May 2025 19:15

Instrument :

MSVOA\_L

ClientSampleId :

EBR-P04-SC-IA01-20250428

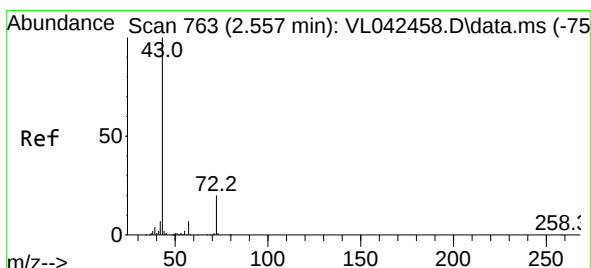
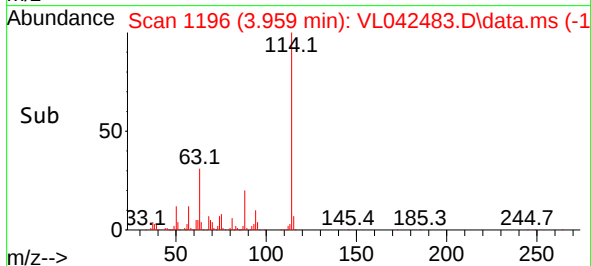
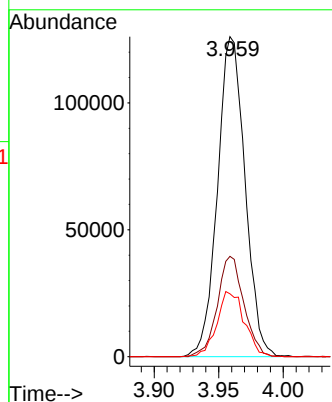
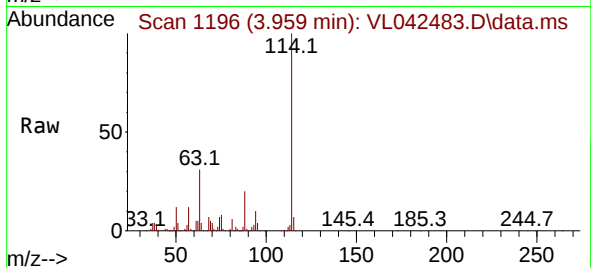
Tgt Ion:114 Resp: 186712

Ion Ratio Lower Upper

114 100

63 30.2 23.1 34.7

88 20.4 16.1 24.1



#34

2-Butanone

Concen: 0.273 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.010 min

Lab File: VL042483.D

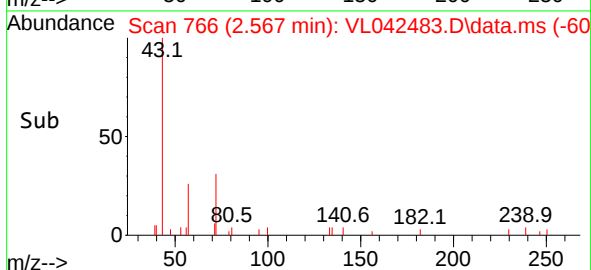
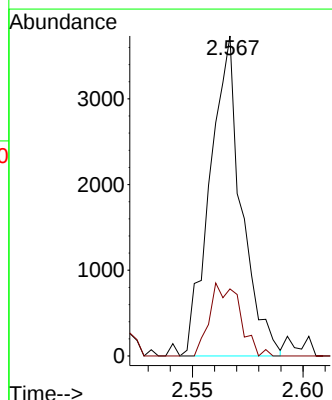
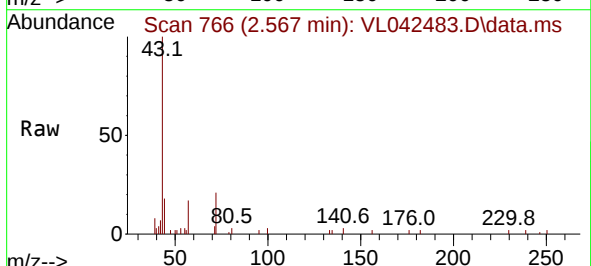
Acq: 05 May 2025 19:15

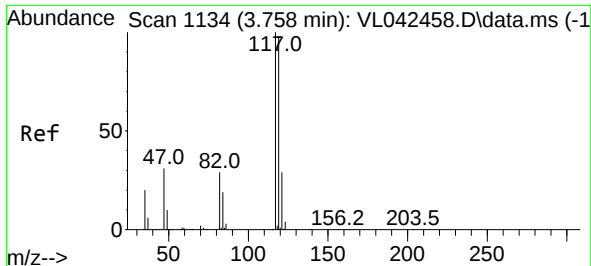
Tgt Ion: 43 Resp: 3685

Ion Ratio Lower Upper

43 100

72 21.8 16.7 25.1

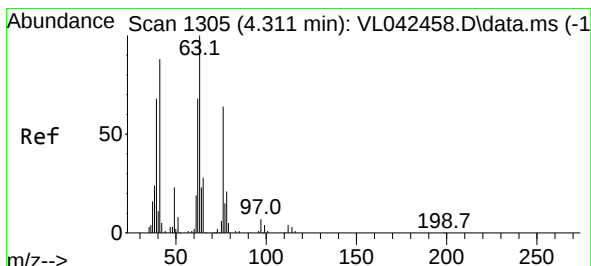
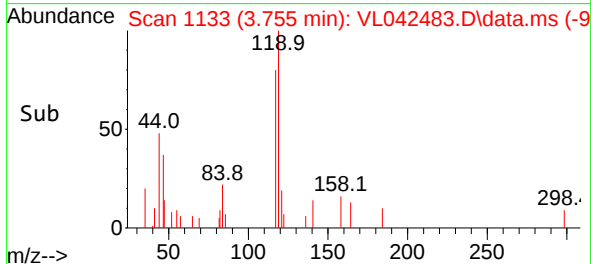
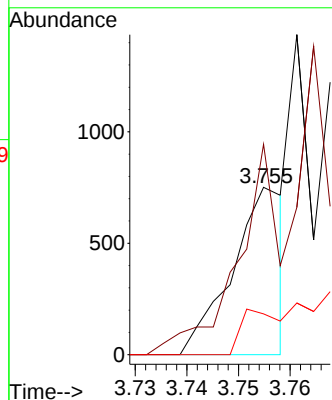
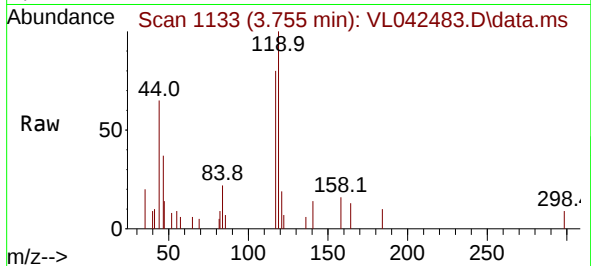




#35  
Carbon Tetrachloride  
Concen: 0.031 ppbv  
RT: 3.755 min Scan# 1133  
Delta R.T. -0.003 min  
Lab File: VL042483.D  
Acq: 05 May 2025 19:15

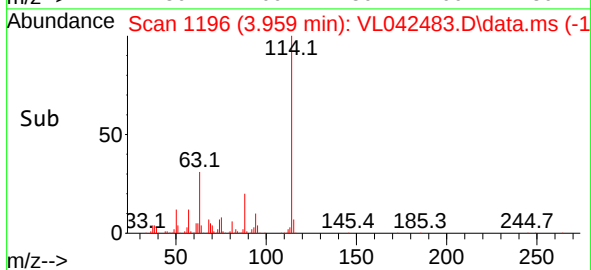
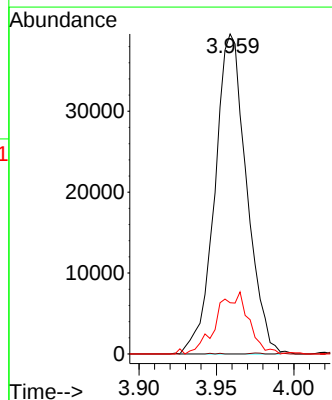
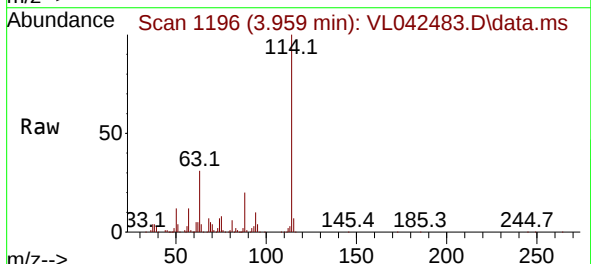
Instrument : MSVOA\_L  
ClientSampleId : EBR-P04-SC-IA01-20250428

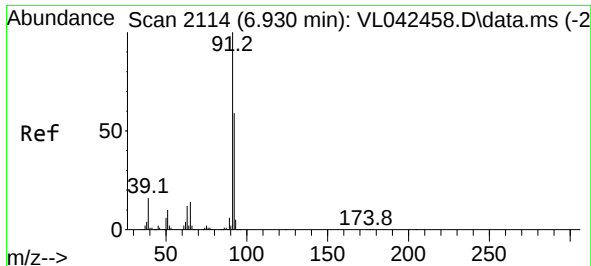
Tgt Ion: 117 Resp: 529  
Ion Ratio Lower Upper  
117 100  
119 112.6 78.1 117.1  
121 24.4 23.0 34.6



#39  
1,2-Dichloropropane  
Concen: 8.537 ppbv  
RT: 3.959 min Scan# 1196  
Delta R.T. -0.353 min  
Lab File: VL042483.D  
Acq: 05 May 2025 19:15

Tgt Ion: 63 Resp: 56313  
Ion Ratio Lower Upper  
63 100  
41 0.0 69.8 104.6#  
62 16.0 54.3 81.5#

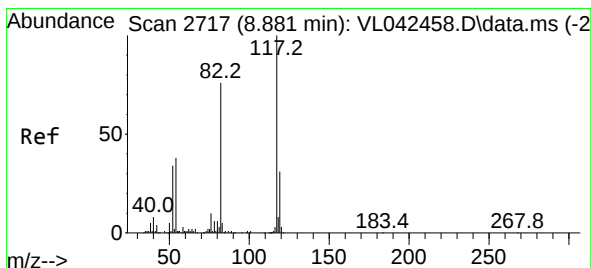
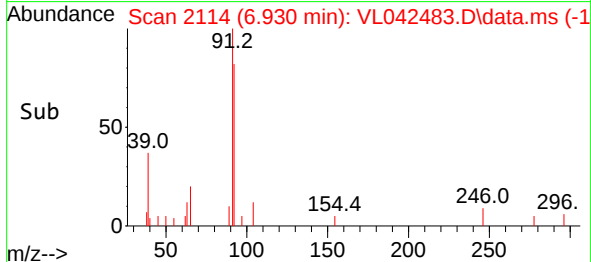
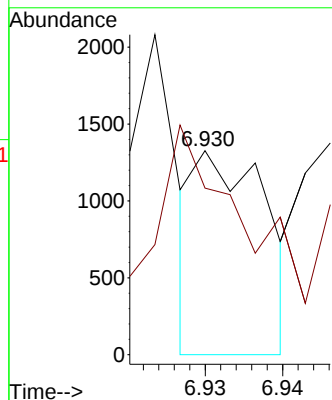
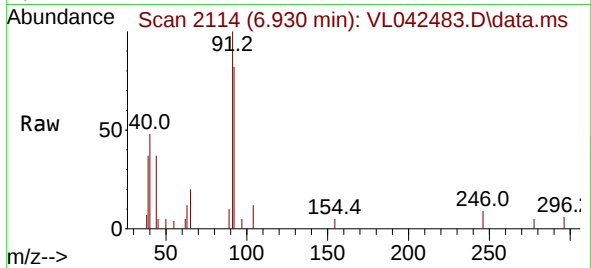




#53  
Toluene  
Concen: 0.046 ppbv  
RT: 6.930 min Scan# 2114  
Delta R.T. 0.000 min  
Lab File: VL042483.D  
Acq: 05 May 2025 19:15

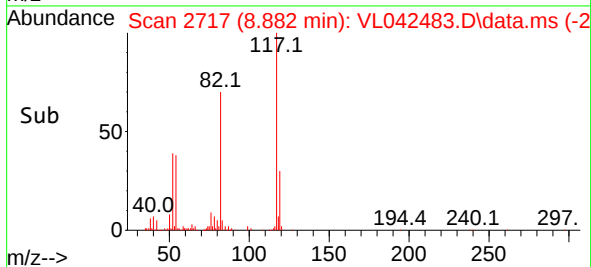
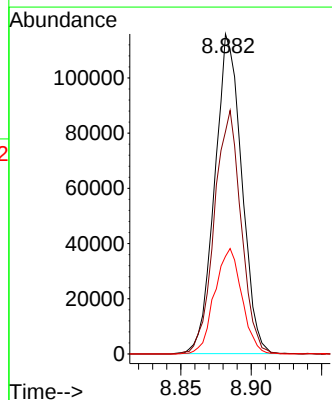
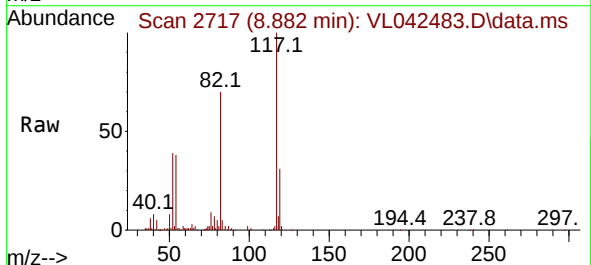
Instrument : MSVOA\_L  
ClientSampleId : EBR-P04-SC-IA01-20250428

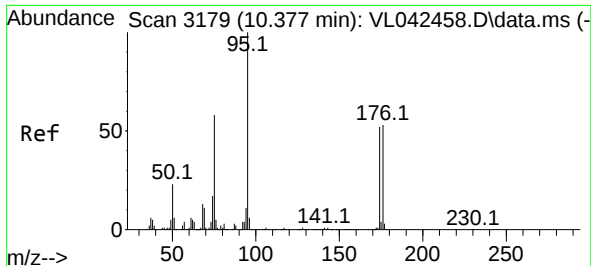
Tgt Ion: 91 Resp: 849  
Ion Ratio Lower Upper  
91 100  
92 233.6 47.9 71.9#



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.882 min Scan# 2717  
Delta R.T. 0.000 min  
Lab File: VL042483.D  
Acq: 05 May 2025 19:15

Tgt Ion: 117 Resp: 154199  
Ion Ratio Lower Upper  
117 100  
82 75.9 63.5 95.3  
119 33.4 25.8 38.8

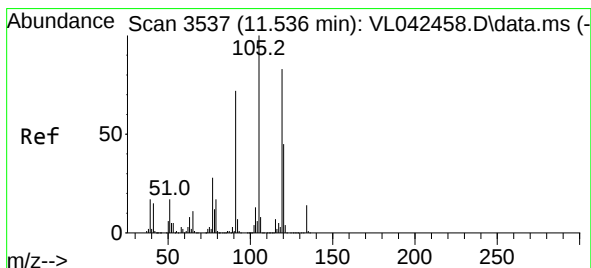
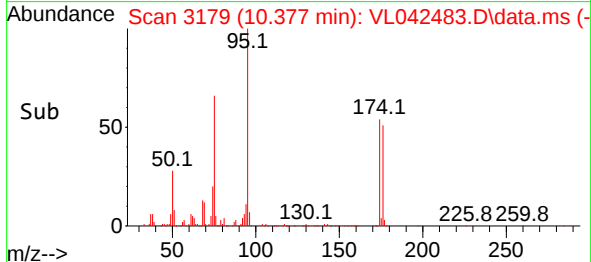
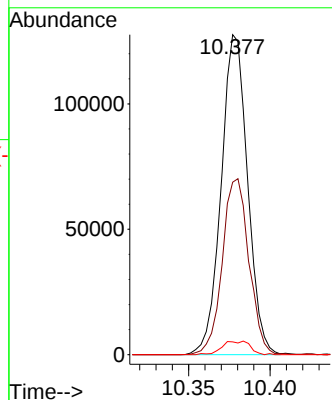
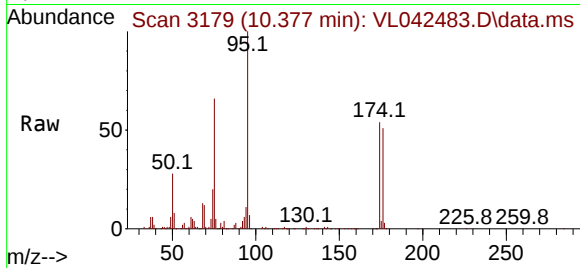




#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.052 ppbv  
RT: 10.377 min Scan# 3179  
Delta R.T. 0.000 min  
Lab File: VL042483.D  
Acq: 05 May 2025 19:15

Instrument :  
MSVOA\_1  
ClientSampleId :  
EBR-P04-SC-IA01-20250428

Tgt Ion: 95 Resp: 143708  
Ion Ratio Lower Upper  
95 100  
174 55.7 42.7 64.1  
175 4.5 3.6 5.4



#74  
1,2,4-Trimethylbenzene  
Concen: 0.044 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. 0.003 min  
Lab File: VL042483.D  
Acq: 05 May 2025 19:15

Tgt Ion: 105 Resp: 1191  
Ion Ratio Lower Upper  
105 100  
120 32.2 36.1 54.1#  
91 5.1 57.6 86.4#  
77 17.7 22.1 33.1#

