

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040925\
 Data File : VL042297.D
 Acq On : 09 Apr 2025 17:31
 Operator : SY/MD
 Sample : Q1757-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Apr 10 01:47:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

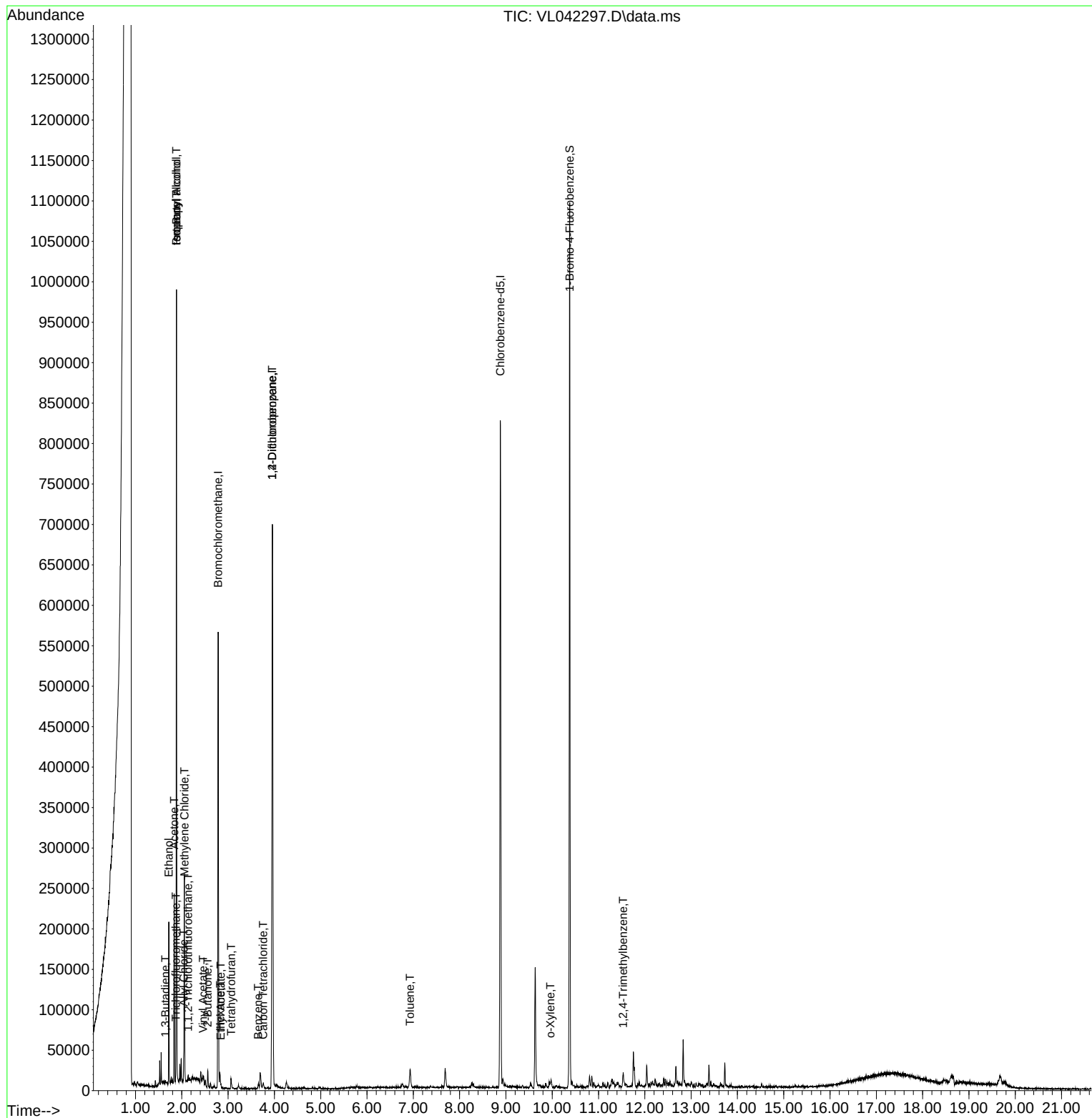
Internal Standards						
1) Bromochloromethane	2.784	49	158267	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	382470	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	324963	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	255572	9.577	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.800%
Target Compounds						
					Qvalue	
9) Propene	1.884	41	36945	3.376	ppbv	94
11) Trichlorofluoromethane	1.871	101	5197	0.229	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.133	101	1300	0.070	ppbv	97
13) Ethanol	1.719	45	68354	66.083	ppbv	80
15) Acetone	1.835	43	93369	4.218	ppbv	92
16) 1,3-Butadiene	1.644	39	525	0.049	ppbv #	22
17) tert-Butyl alcohol	1.884	59	14407	0.523	ppbv	98
19) Isopropyl Alcohol	1.884	45	394134	31.559	ppbv #	32
20) Methylene Chloride	2.059	84	12419	1.506	ppbv	90
21) Allyl Chloride	2.043	41	5640	0.361	ppbv #	73
23) Vinyl Acetate	2.460	43	4107	0.429	ppbv #	83
25) Ethyl Acetate	2.842	43	1760	0.031	ppbv #	80
26) Hexane	2.829	57	2900	0.131	ppbv #	59
34) 2-Butanone	2.557	43	13691	0.494	ppbv	94
35) Carbon Tetrachloride	3.758	117	1711	0.057	ppbv	90
36) Benzene	3.651	78	2067	0.055	ppbv #	87
39) 1,2-Dichloropropane	3.955	63	99567	7.210	ppbv #	23
41) Tetrahydrofuran	3.065	42	3667	0.230	ppbv	89
53) Toluene	6.927	91	15853	0.353	ppbv	97
60) o-Xylene	9.963	91	1858	0.040	ppbv	99
74) 1,2,4-Trimethylbenzene	11.532	105	4879	0.084	ppbv #	63

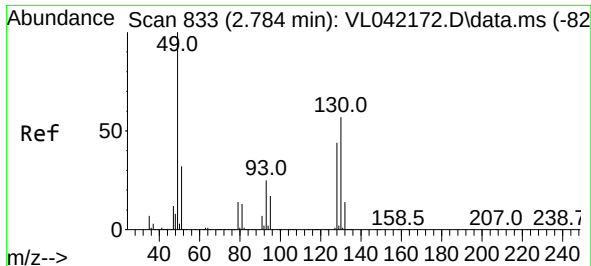
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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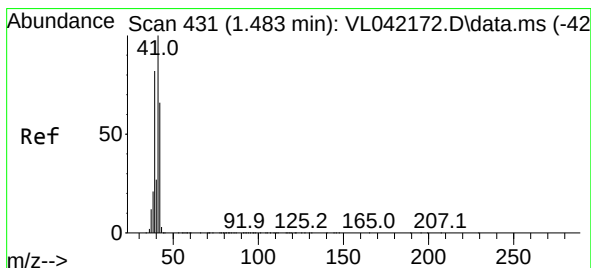
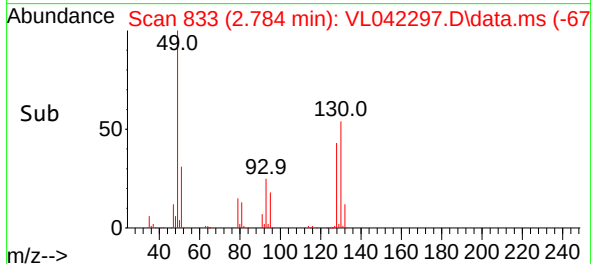
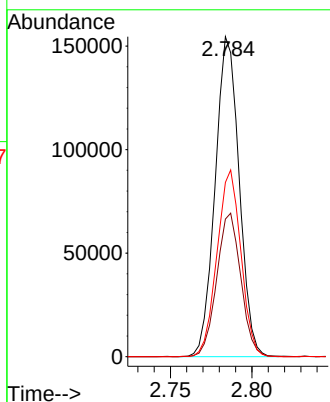
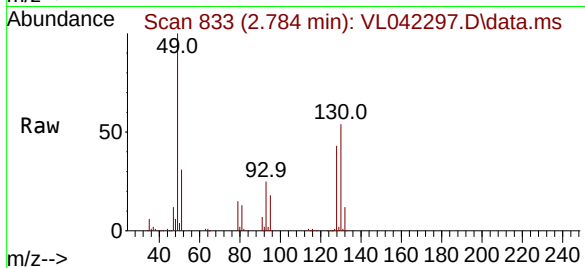




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

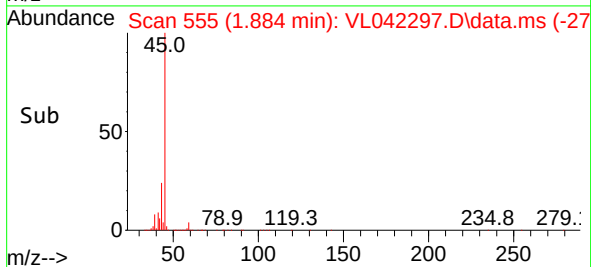
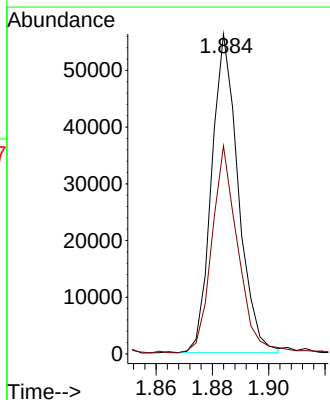
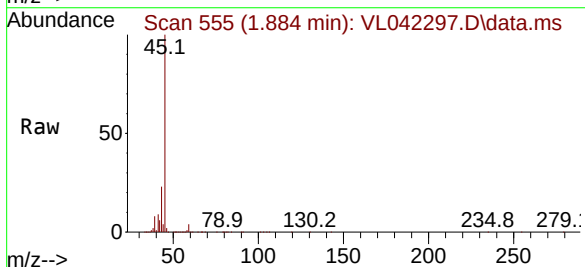
Instrument :
MSVOA_L
ClientSampleId :
IA1

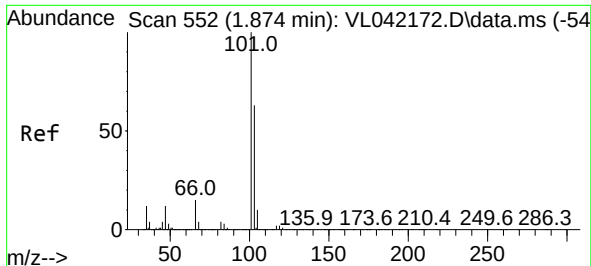
Tgt Ion: 49 Resp: 158267
Ion Ratio Lower Upper
49 100
128 45.0 22.9 68.5
130 58.0 28.8 86.4



#9
Propene
Concen: 3.376 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.401 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

Tgt Ion: 41 Resp: 36945
Ion Ratio Lower Upper
41 100
42 64.3 55.4 83.2

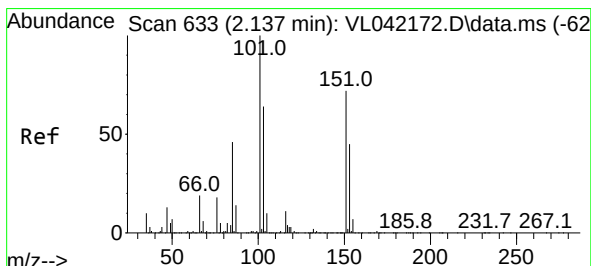
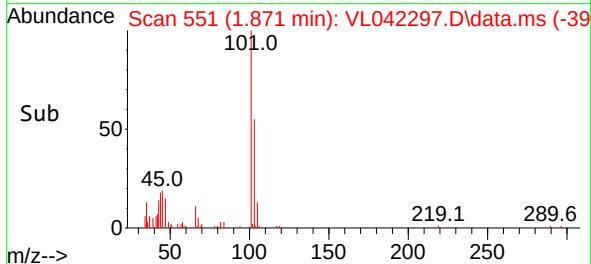
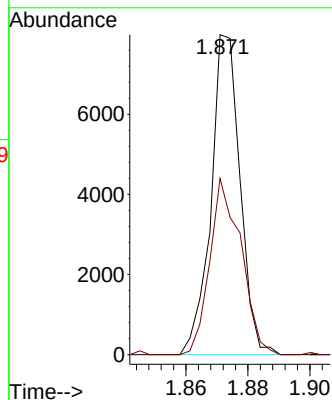
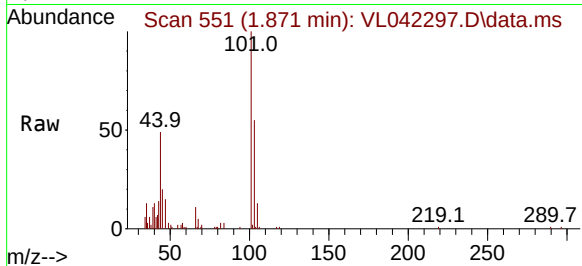




#11
 Trichlorofluoromethane
 Concen: 0.229 ppbv
 RT: 1.871 min Scan# 51
 Delta R.T. -0.003 min
 Lab File: VL042297.D
 Acq: 09 Apr 2025 17:31

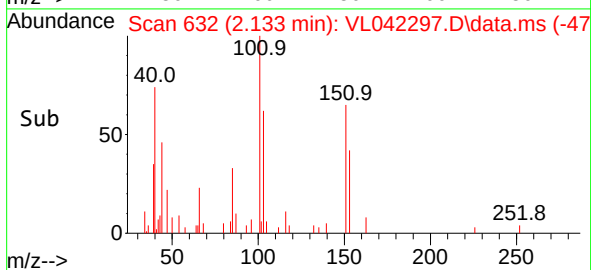
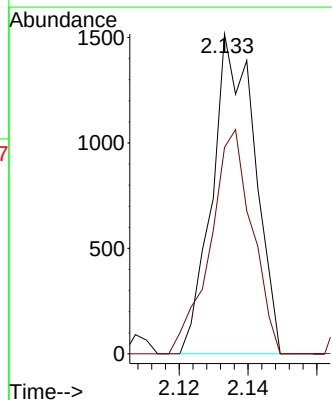
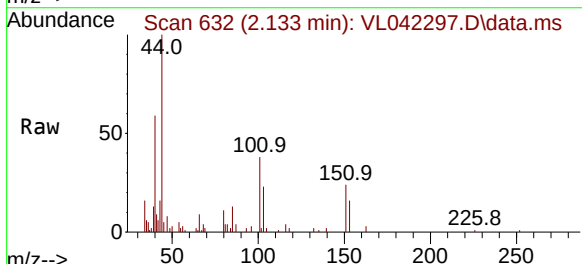
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

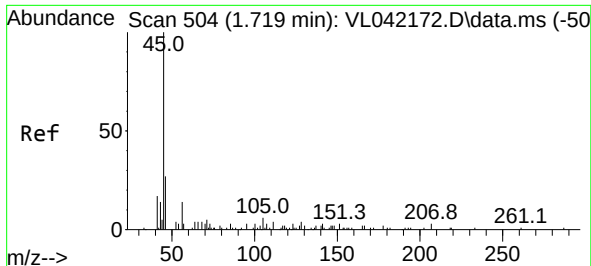
Tgt Ion:101 Resp: 5197
 Ion Ratio Lower Upper
 101 100
 103 55.0 50.2 75.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.070 ppbv
 RT: 2.133 min Scan# 632
 Delta R.T. -0.003 min
 Lab File: VL042297.D
 Acq: 09 Apr 2025 17:31

Tgt Ion:101 Resp: 1300
 Ion Ratio Lower Upper
 101 100
 151 69.1 57.1 85.7

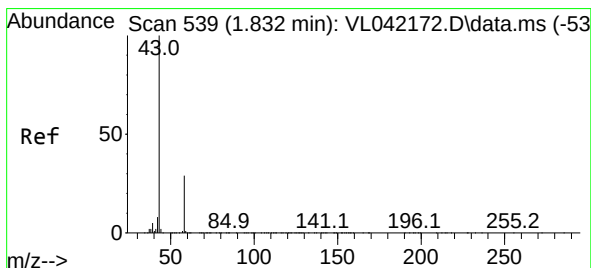
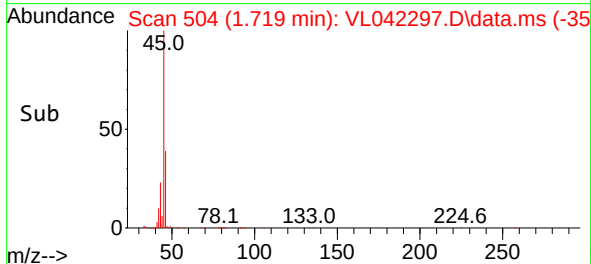
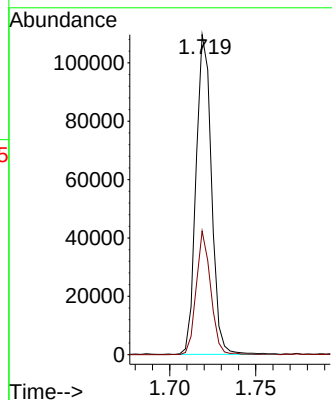
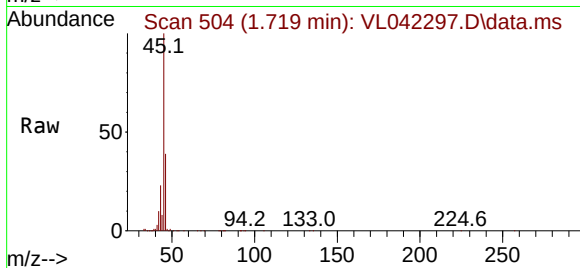




#13
Ethanol
Concen: 66.083 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

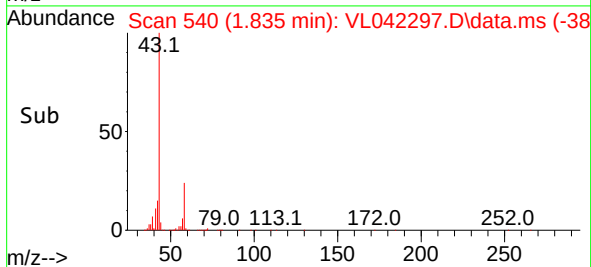
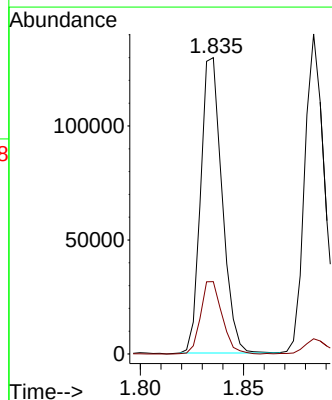
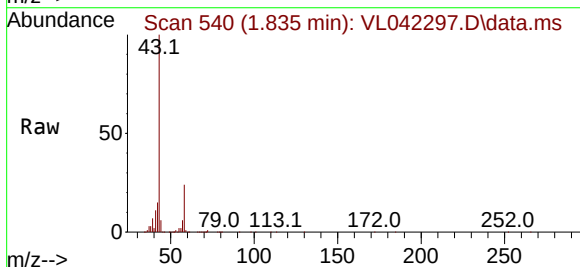
Instrument :
MSVOA_1
ClientSampleId :
IA1

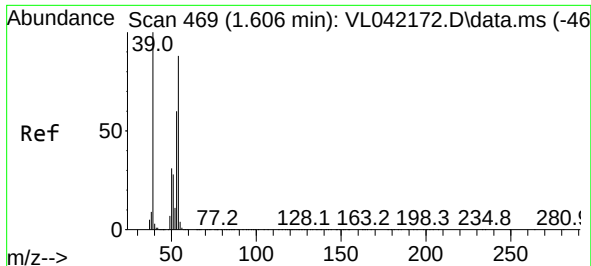
Tgt Ion: 45 Resp: 68354
Ion Ratio Lower Upper
45 100
46 36.5 20.2 80.8



#15
Acetone
Concen: 4.218 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.003 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

Tgt Ion: 43 Resp: 93369
Ion Ratio Lower Upper
43 100
58 24.6 23.2 34.8

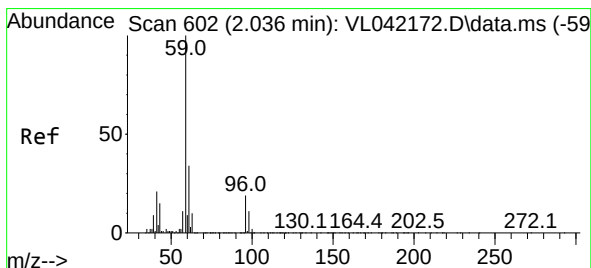
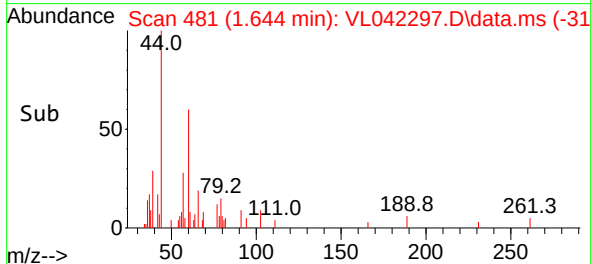
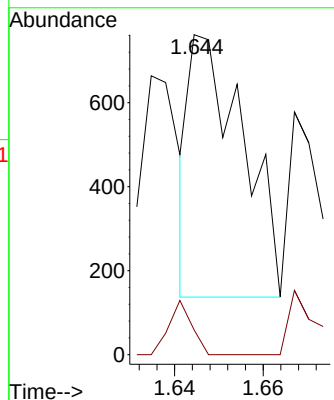
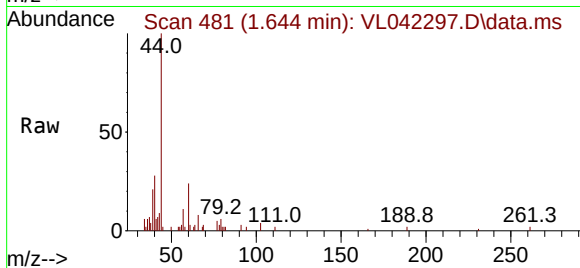




#16
1,3-Butadiene
Concen: 0.049 ppbv
RT: 1.644 min Scan# 41
Delta R.T. 0.039 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

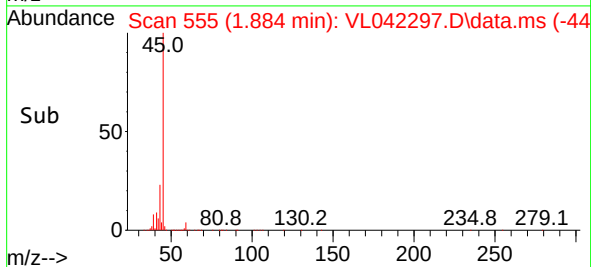
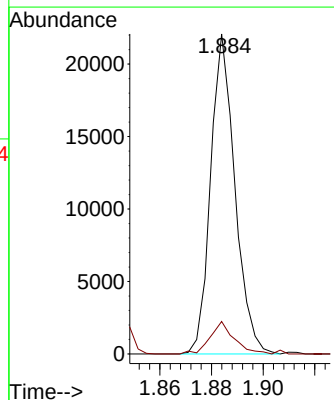
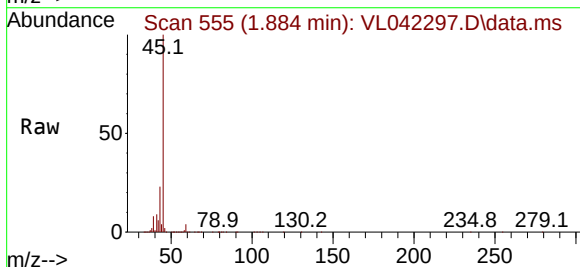
Instrument :
MSVOA_L
ClientSampleId :
IA1

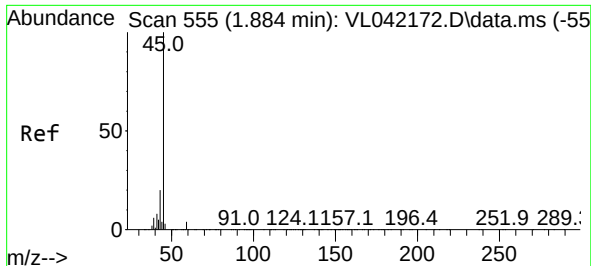
Tgt Ion: 39 Resp: 525
Ion Ratio Lower Upper
39 100
54 8.8 60.7 91.1#



#17
tert-Butyl alcohol
Concen: 0.523 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.152 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

Tgt Ion: 59 Resp: 14407
Ion Ratio Lower Upper
59 100
57 10.4 8.9 13.3

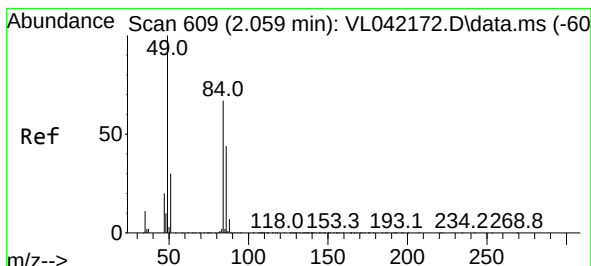
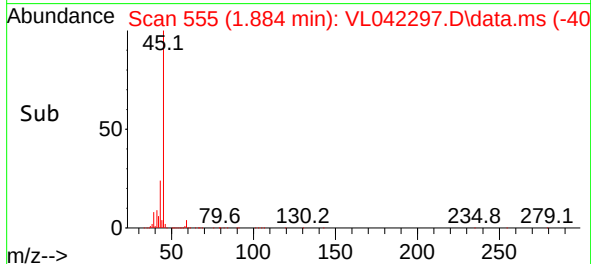
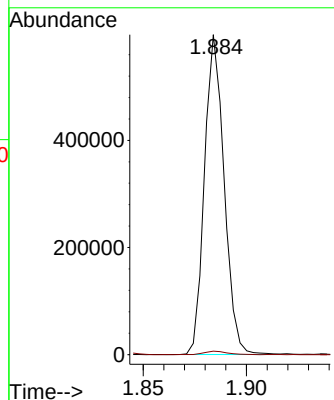
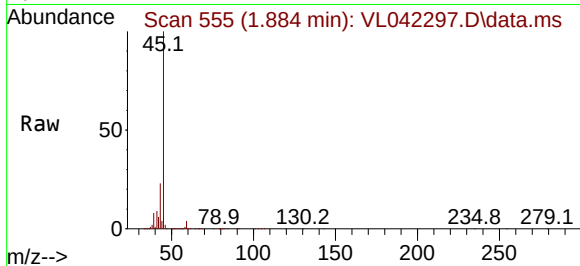




#19
Isopropyl Alcohol
Concen: 31.559 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

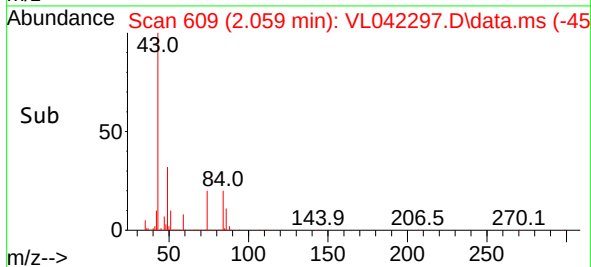
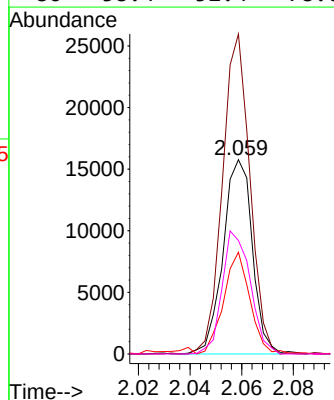
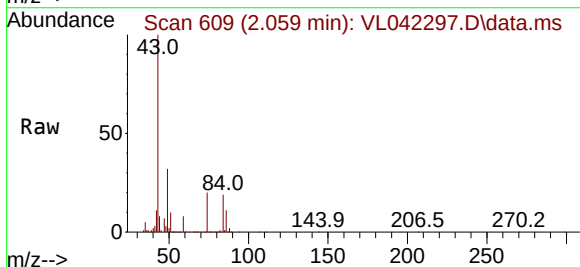
Instrument :
MSVOA_L
ClientSampleId :
IA1

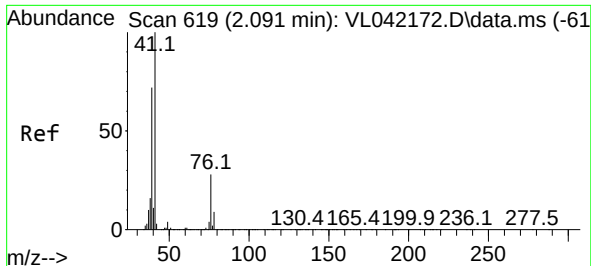
Tgt Ion: 45 Resp: 394134
Ion Ratio Lower Upper
45 100
58 1.4 36.9 55.3#



#20
Methylene Chloride
Concen: 1.506 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.000 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

Tgt Ion: 84 Resp: 12419
Ion Ratio Lower Upper
84 100
49 164.7 120.2 180.4
51 50.6 37.4 56.0
86 58.4 52.4 78.6

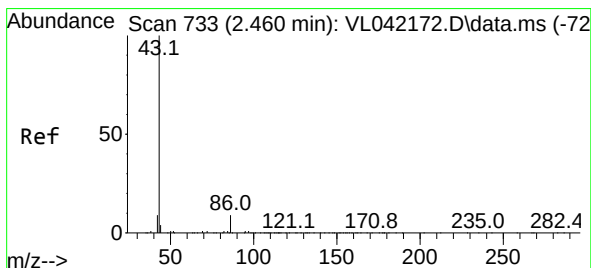
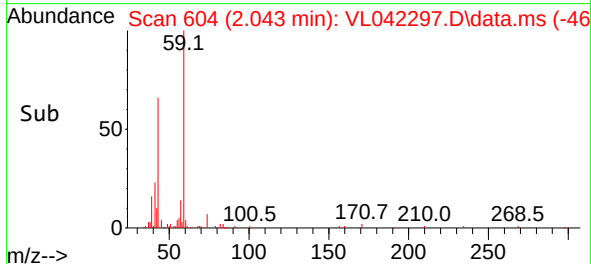
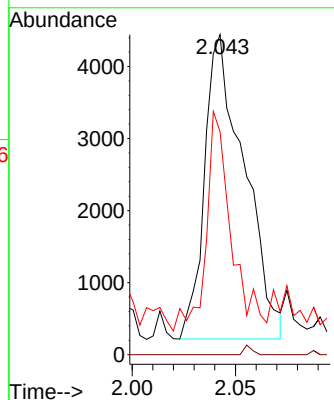
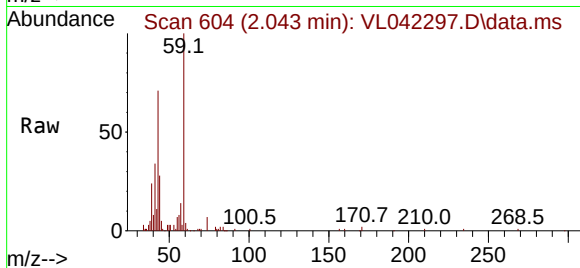




#21
 Allyl Chloride
 Concen: 0.361 ppbv
 RT: 2.043 min Scan# 619
 Delta R.T. -0.049 min
 Lab File: VL042297.D
 Acq: 09 Apr 2025 17:31

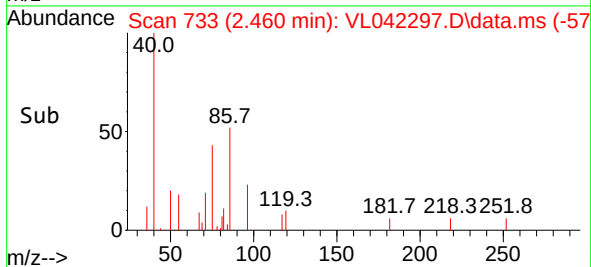
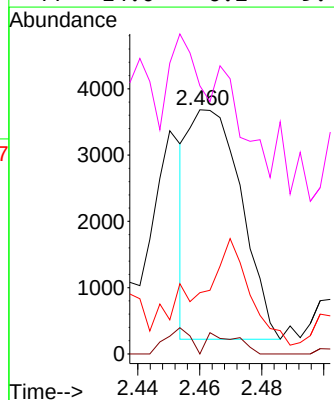
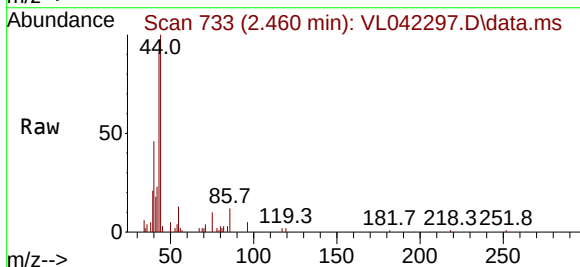
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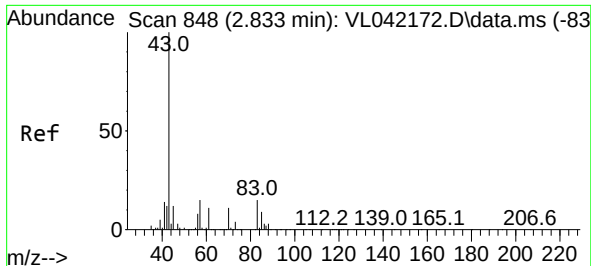
Tgt Ion: 41 Resp: 5640
 Ion Ratio Lower Upper
 41 100
 76 0.6 24.1 36.1#
 39 62.0 61.1 91.7



#23
 Vinyl Acetate
 Concen: 0.429 ppbv
 RT: 2.460 min Scan# 733
 Delta R.T. -0.000 min
 Lab File: VL042297.D
 Acq: 09 Apr 2025 17:31

Tgt Ion: 43 Resp: 4107
 Ion Ratio Lower Upper
 43 100
 86 0.0 5.5 8.3#
 42 16.5 8.6 13.0#
 44 14.0 6.2 9.4#





#25

Ethyl Acetate

Concen: 0.031 ppbv

RT: 2.842 min Scan# 8

Delta R.T. 0.009 min

Lab File: VL042297.D

Acq: 09 Apr 2025 17:31

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 43 Resp: 1760

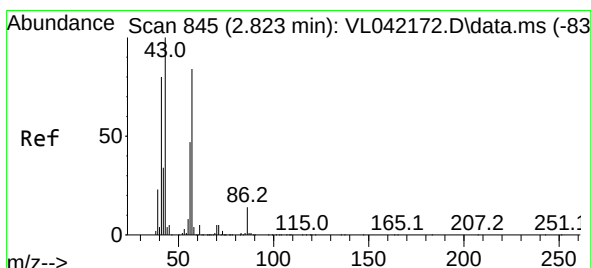
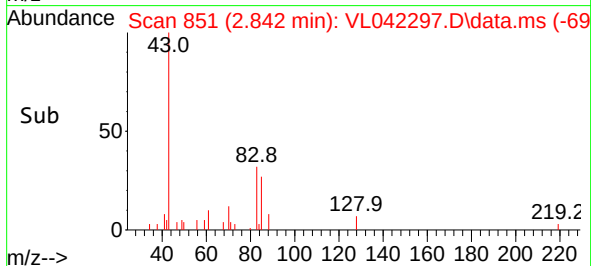
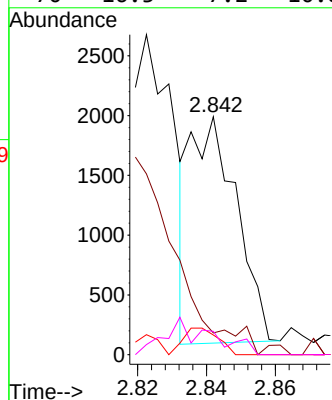
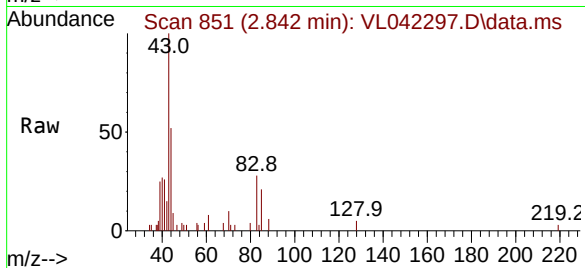
Ion Ratio Lower Upper

43 100

45 0.0 8.2 12.2#

61 13.4 7.3 10.9#

70 16.3 7.2 10.8#



#26

Hexane

Concen: 0.131 ppbv

RT: 2.829 min Scan# 847

Delta R.T. 0.006 min

Lab File: VL042297.D

Acq: 09 Apr 2025 17:31

Tgt Ion: 57 Resp: 2900

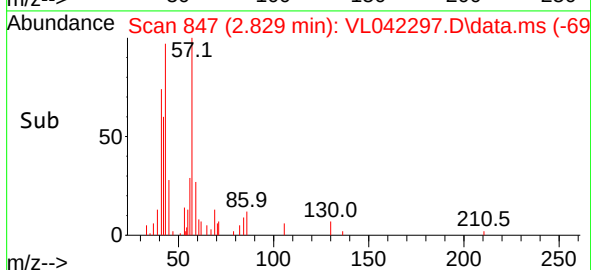
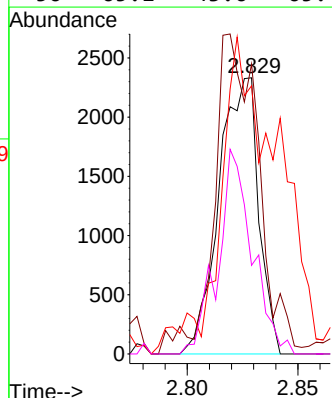
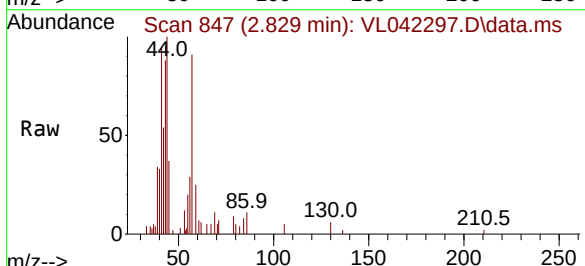
Ion Ratio Lower Upper

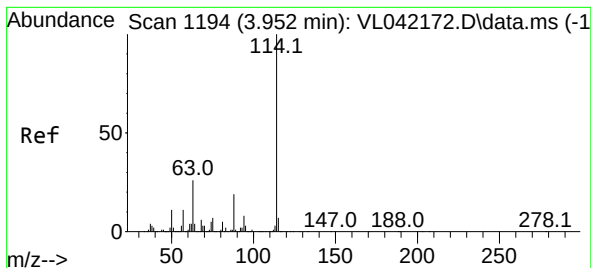
57 100

41 136.4 76.6 114.8#

43 177.9 207.8 311.8#

56 65.1 43.6 65.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.003 min

Lab File: VL042297.D

Acq: 09 Apr 2025 17:31

Instrument :

MSVOA_L

ClientSampleId :

IA1

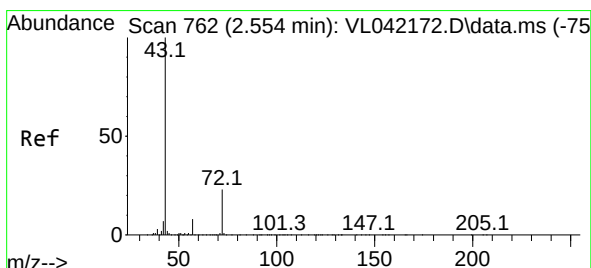
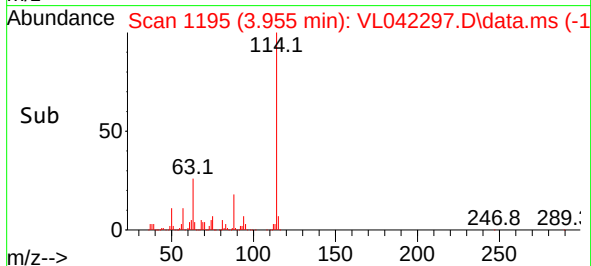
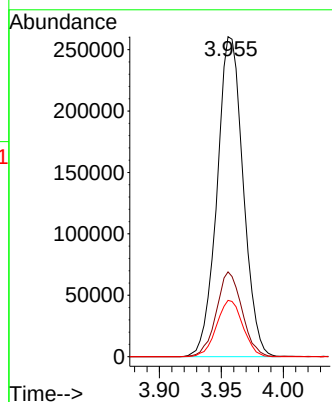
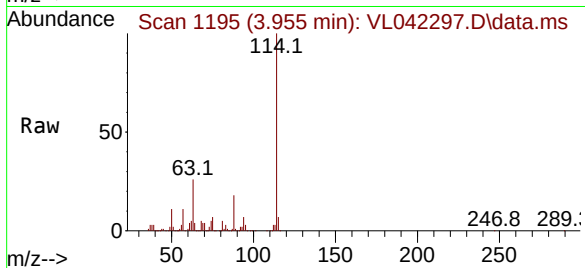
Tgt Ion:114 Resp: 382470

Ion Ratio Lower Upper

114 100

63 26.2 20.7 31.1

88 17.6 15.0 22.4



#34

2-Butanone

Concen: 0.494 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.003 min

Lab File: VL042297.D

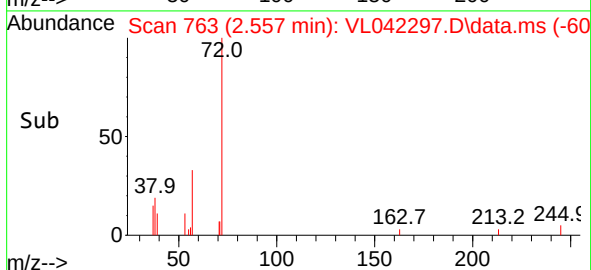
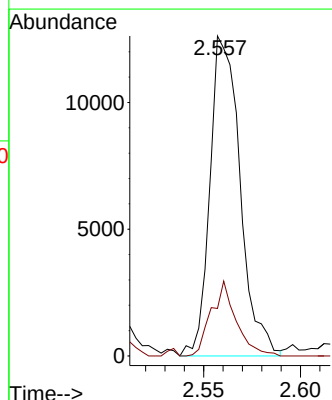
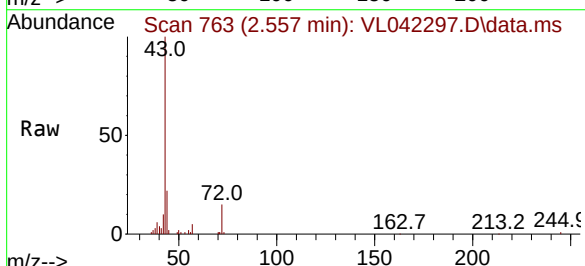
Acq: 09 Apr 2025 17:31

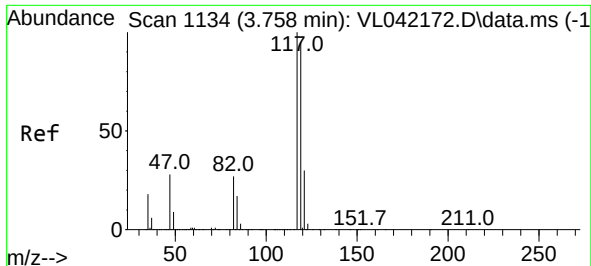
Tgt Ion: 43 Resp: 13691

Ion Ratio Lower Upper

43 100

72 20.0 18.2 27.2

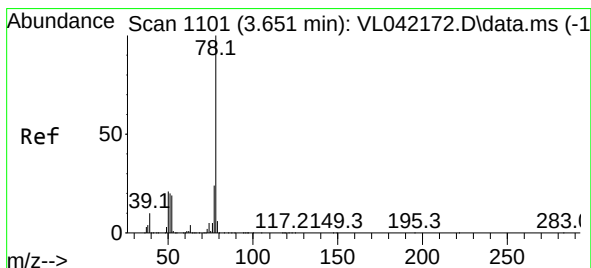
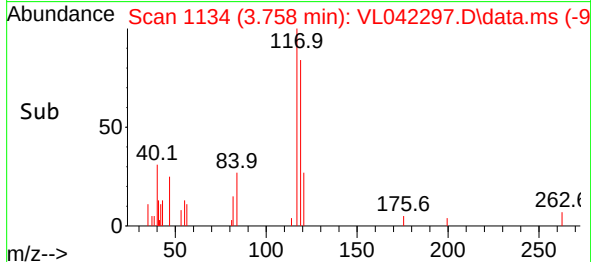
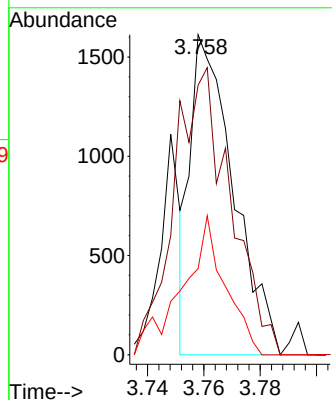
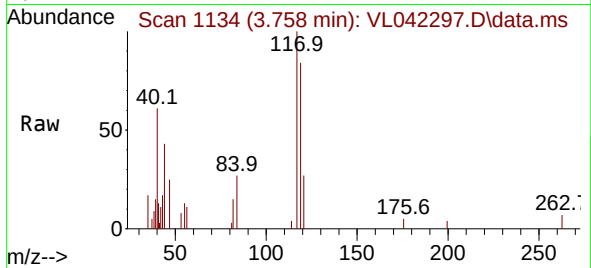




#35
Carbon Tetrachloride
Concen: 0.057 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.000 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

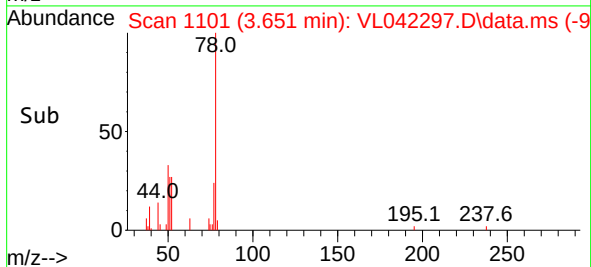
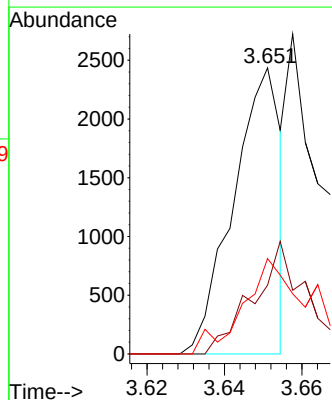
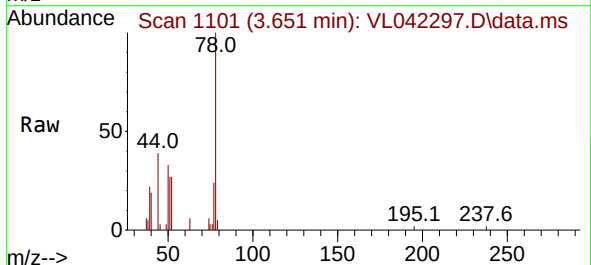
Instrument :
MSVOA_L
ClientSampleId :
IA1

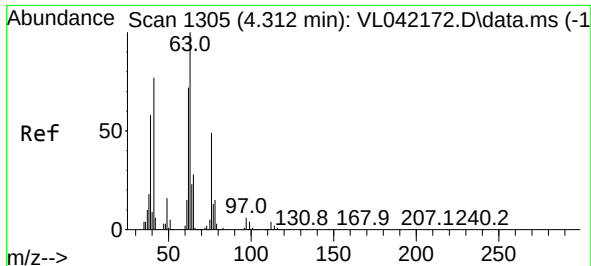
Tgt Ion:117 Resp: 1711
Ion Ratio Lower Upper
117 100
119 84.2 76.2 114.2
121 26.9 24.2 36.4



#36
Benzene
Concen: 0.055 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.000 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

Tgt Ion: 78 Resp: 2067
Ion Ratio Lower Upper
78 100
77 24.1 19.1 28.7
50 33.3 16.6 24.8





#39

1,2-Dichloropropane

Concen: 7.210 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042297.D

Acq: 09 Apr 2025 17:31

Instrument :

MSVOA_L

ClientSampleId :

IA1

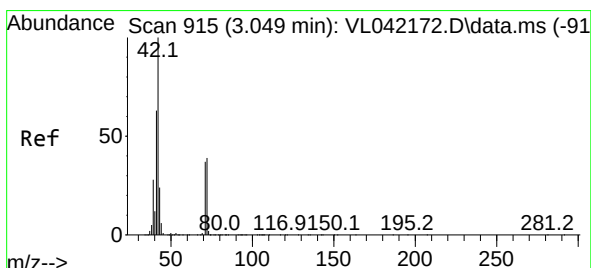
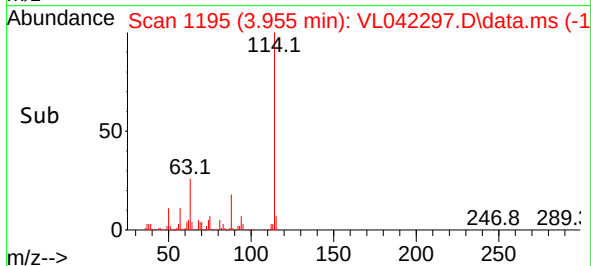
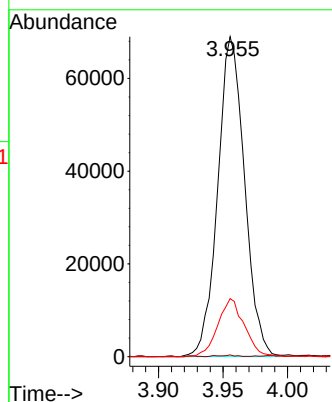
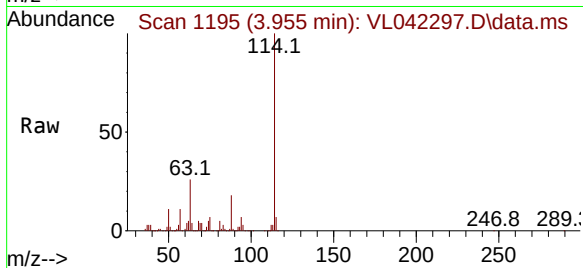
Tgt Ion: 63 Resp: 99567

Ion Ratio Lower Upper

63 100

41 0.8 61.7 92.5#

62 18.2 57.6 86.4#



#41

Tetrahydrofuran

Concen: 0.230 ppbv

RT: 3.065 min Scan# 920

Delta R.T. 0.016 min

Lab File: VL042297.D

Acq: 09 Apr 2025 17:31

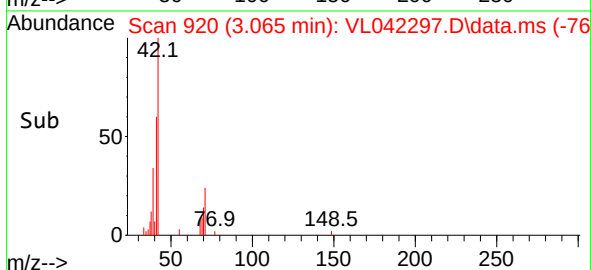
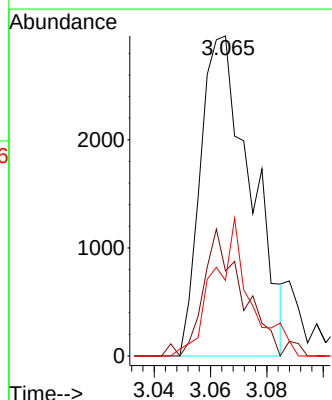
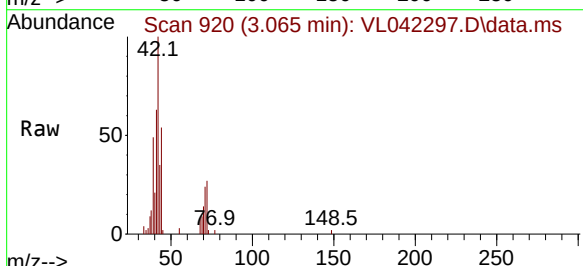
Tgt Ion: 42 Resp: 3667

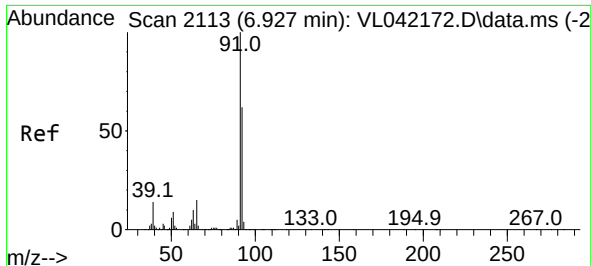
Ion Ratio Lower Upper

42 100

72 31.9 31.4 47.0

71 31.2 30.2 45.4

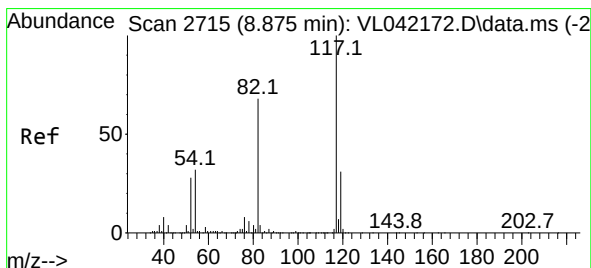
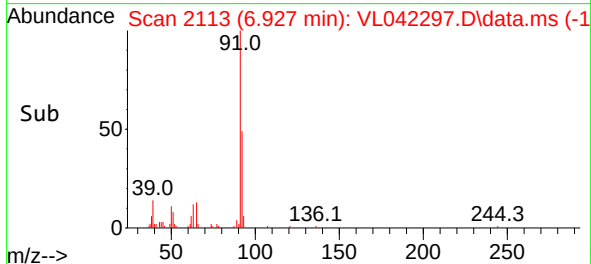
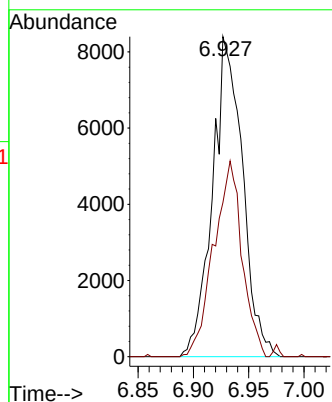
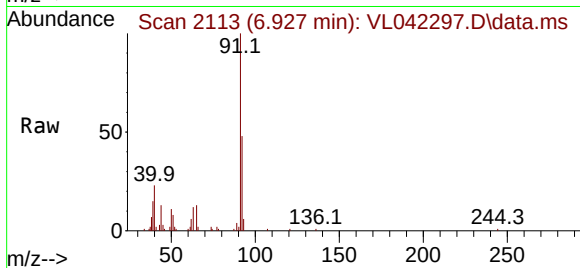




#53
Toluene
Concen: 0.353 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.000 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

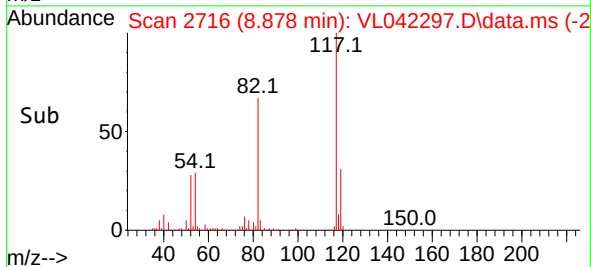
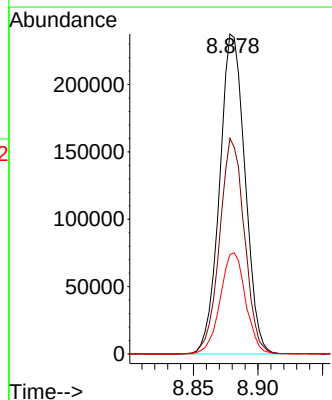
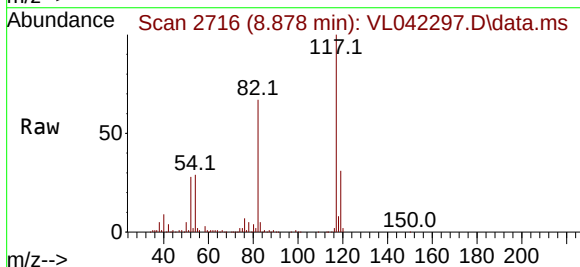
Instrument :
MSVOA_L
ClientSampleId :
IA1

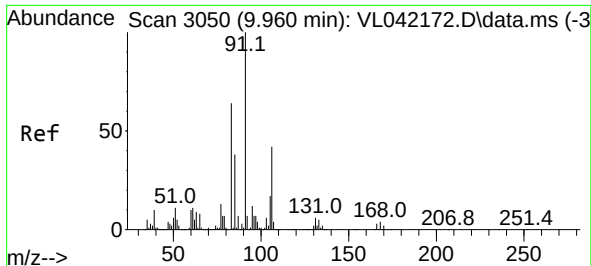
Tgt Ion: 91 Resp: 15853
Ion Ratio Lower Upper
91 100
92 58.4 48.4 72.6



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.003 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

Tgt Ion: 117 Resp: 324963
Ion Ratio Lower Upper
117 100
82 66.0 55.8 83.6
119 31.7 25.5 38.3

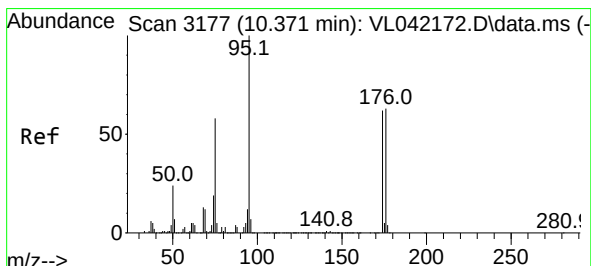
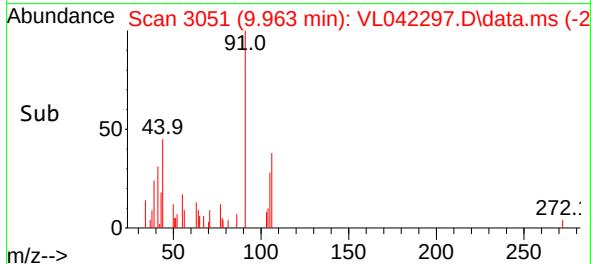
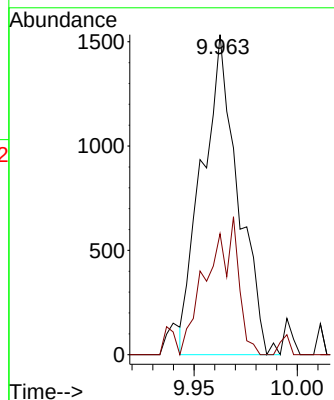
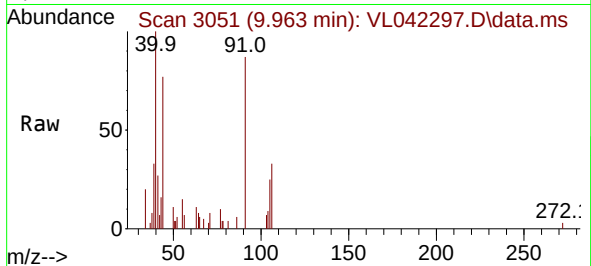




#60
o-Xylene
Concen: 0.040 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

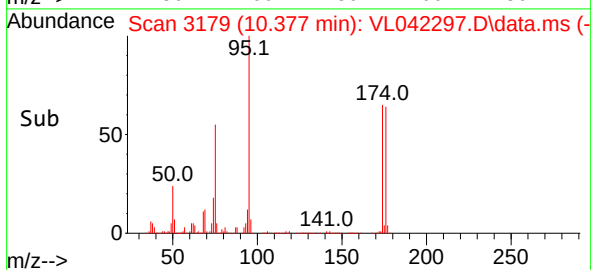
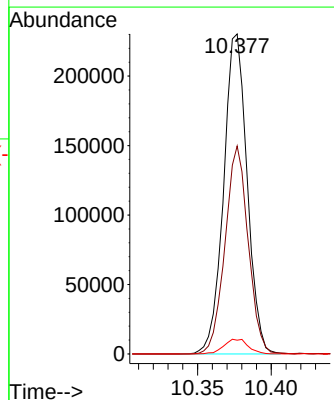
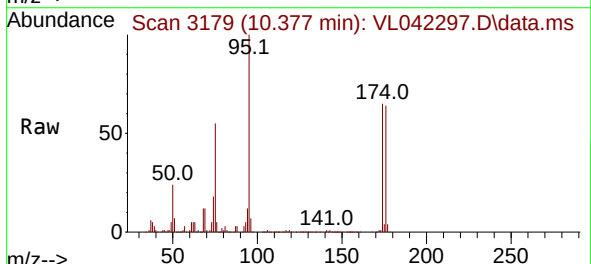
Instrument :
MSVOA_L
ClientSampleId :
IA1

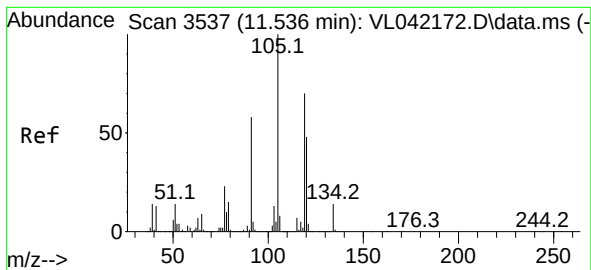
Tgt Ion: 91 Resp: 1858
Ion Ratio Lower Upper
91 100
106 40.9 20.8 62.5



#68
1-Bromo-4-Fluorobenzene
Concen: 9.577 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.006 min
Lab File: VL042297.D
Acq: 09 Apr 2025 17:31

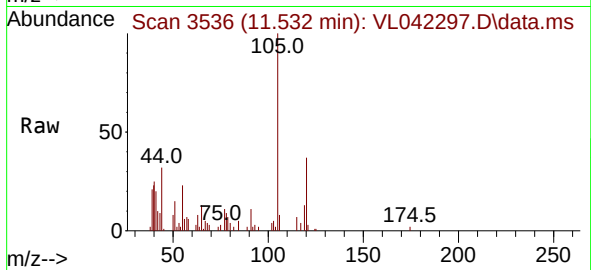
Tgt Ion: 95 Resp: 255572
Ion Ratio Lower Upper
95 100
174 64.0 50.6 76.0
175 4.8 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.084 ppbv
 RT: 11.532 min Scan# 3536
 Delta R.T. -0.003 min
 Lab File: VL042297.D
 Acq: 09 Apr 2025 17:31

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:	105	Resp:	4879
Ion	Ratio	Lower	Upper
105	100		
120	40.6	38.6	58.0
91	10.9	46.2	69.2#
77	10.6	18.6	27.8#

