

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL052125\
 Data File : VL042564.D
 Acq On : 21 May 2025 14:14
 Operator : SY/MD
 Sample : QC051325 CAN 10331
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC051325 CAN 10331

Quant Time: May 21 22:55:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL052025AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed May 21 00:21:29 2025
 Response via : Initial Calibration

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

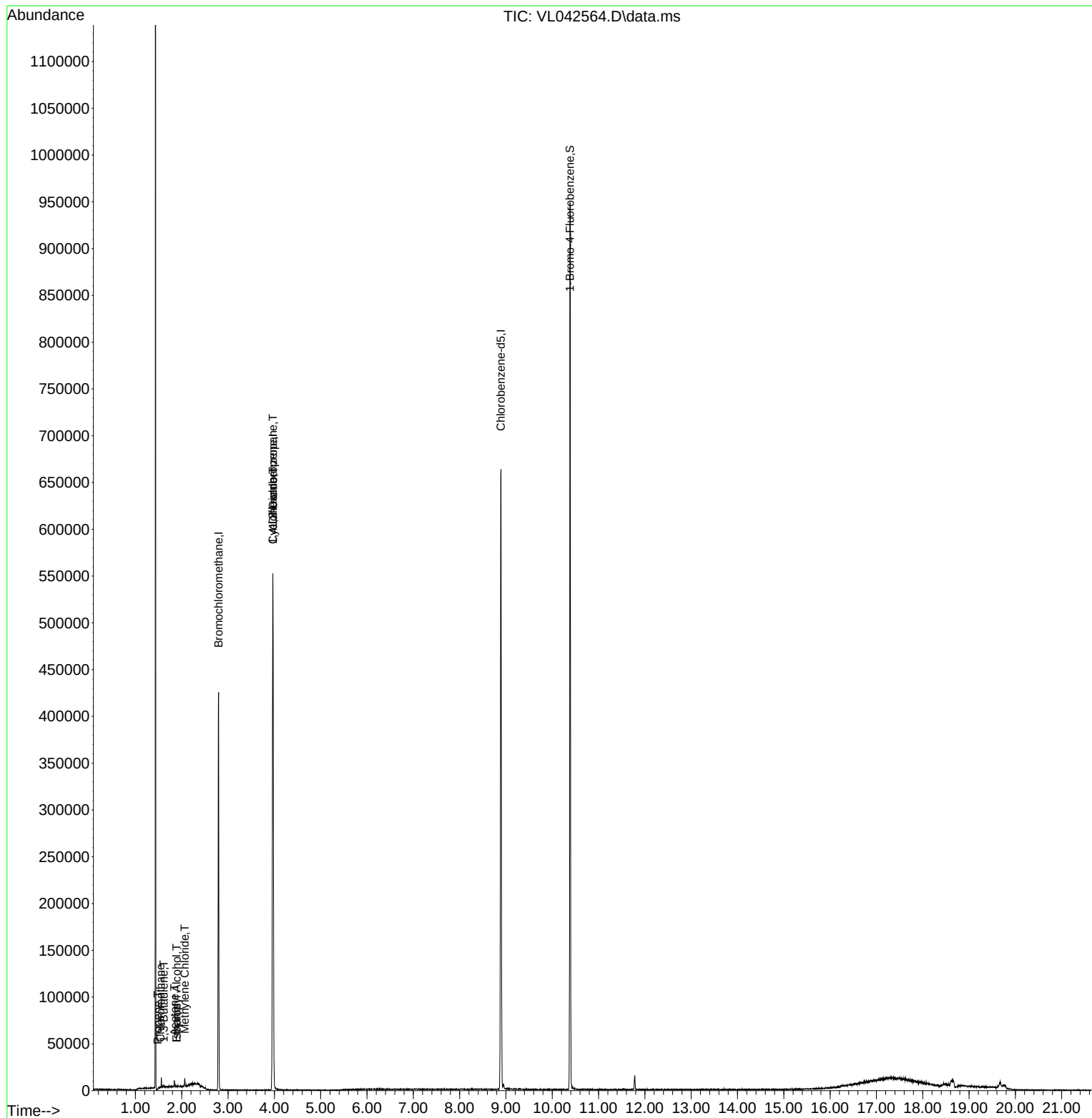
Internal Standards							
1) Bromochloromethane		2.794	49	104386	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		3.969	114	312149	10.000	ppbv	0.00
55) Chlorobenzene-d5		8.888	117	265290	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.384	95	214186	10.088	ppbv	0.00
Spiked Amount		10.000	Range 65 - 135		Recovery	= 100.900%	
Target Compounds							
							Qvalue
4) Chloromethane		1.535	50	225	0.036	ppbv	98
9) Propene		1.483	41	173	0.031	ppbv #	83
13) Ethanol		1.888	45	378	0.467	ppbv #	37
15) Acetone		1.839	43	2563	0.176	ppbv #	63
16) 1,3-Butadiene		1.612	39	197	0.033	ppbv #	5
19) Isopropyl Alcohol		1.888	45	378	0.046	ppbv #	1
20) Methylene Chloride		2.066	84	1500	0.213	ppbv	85
30) Cyclohexane		3.969	84	2973	0.270	ppbv #	1
39) 1,2-Dichloropropane		3.965	63	74307	8.381	ppbv #	25

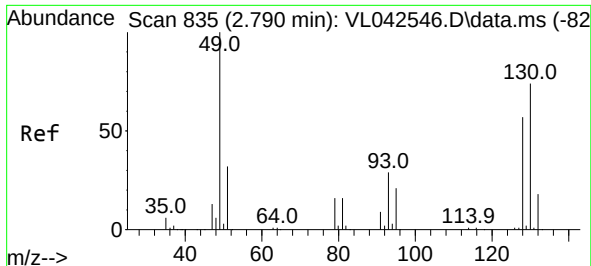
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.794 min Scan# 835

Delta R.T. 0.004 min

Lab File: VL042564.D

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MSVOA_L

ClientSampleId :

QC051325 CAN 10331

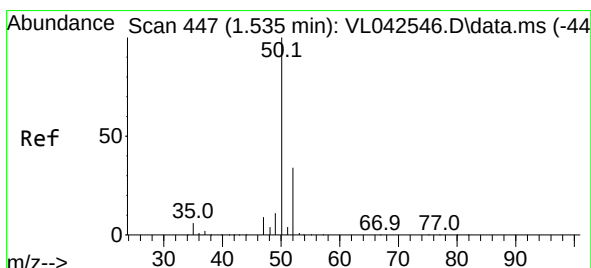
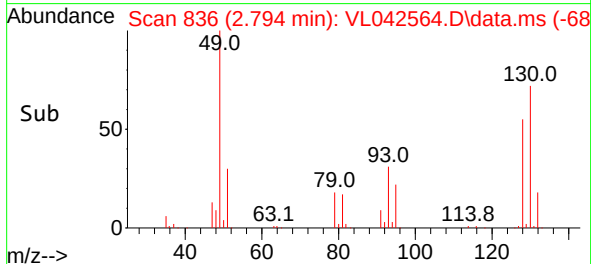
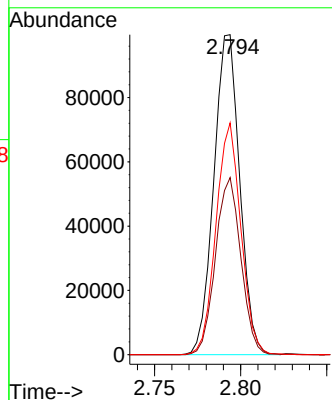
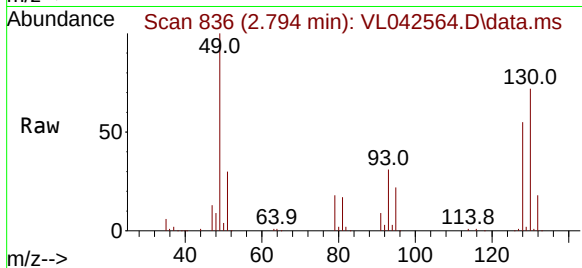
Tgt Ion: 49 Resp: 104386

Ion Ratio Lower Upper

49 100

128 54.2 28.6 85.8

130 69.7 36.6 109.8



#4

Chloromethane

Concen: 0.036 ppbv

RT: 1.535 min Scan# 447

Delta R.T. 0.000 min

Lab File: VL042564.D

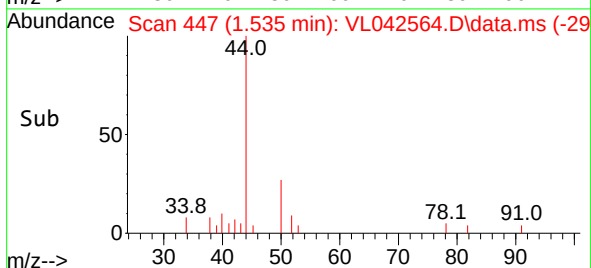
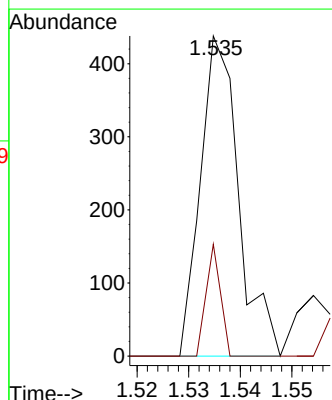
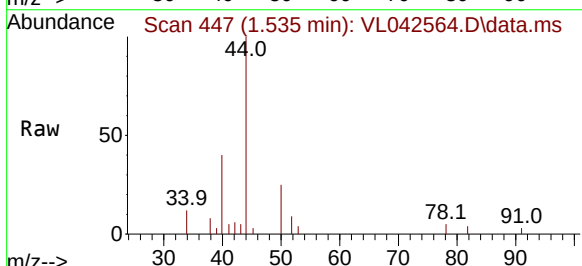
Acq: 21 May 2025 14:14

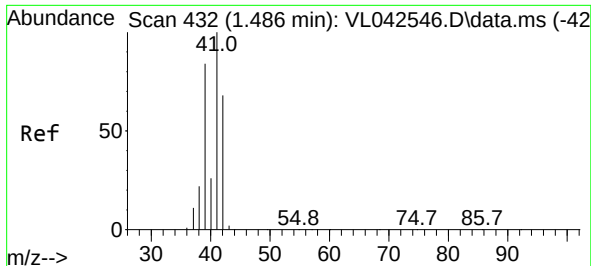
Tgt Ion: 50 Resp: 225

Ion Ratio Lower Upper

50 100

52 34.9 26.9 40.3





#9

Propene

Concen: 0.031 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042564.D

Acq: 21 May 2025 14:14

Instrument :

MSVOA_L

ClientSampleId :

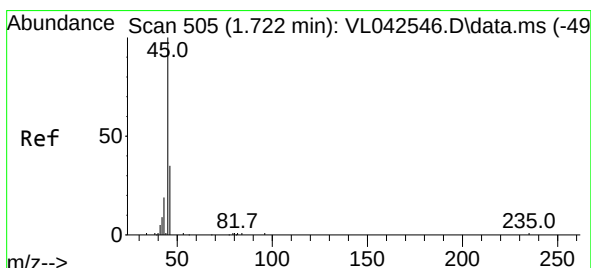
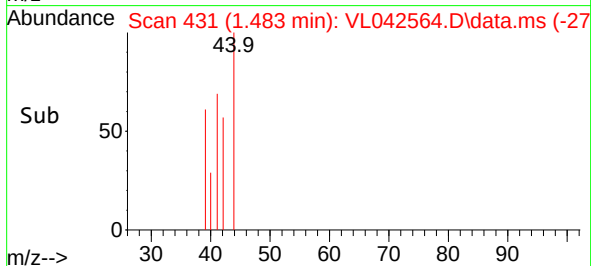
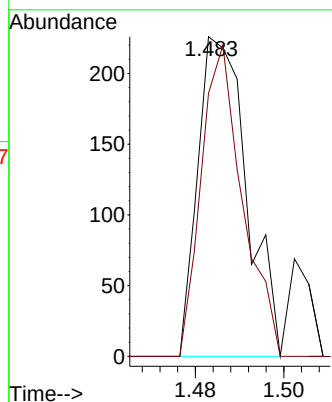
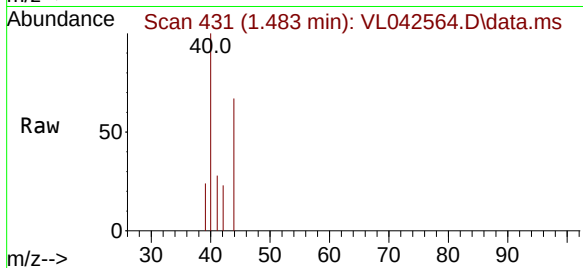
QC051325 CAN 10331

Tgt Ion: 41 Resp: 173

Ion Ratio Lower Upper

41 100

42 82.7 55.0 82.4#



#13

Ethanol

Concen: 0.467 ppbv

RT: 1.888 min Scan# 556

Delta R.T. 0.165 min

Lab File: VL042564.D

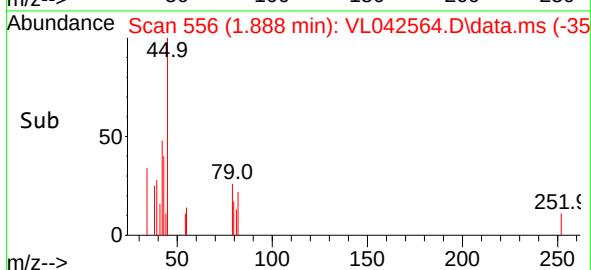
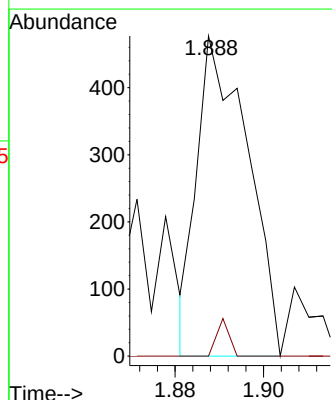
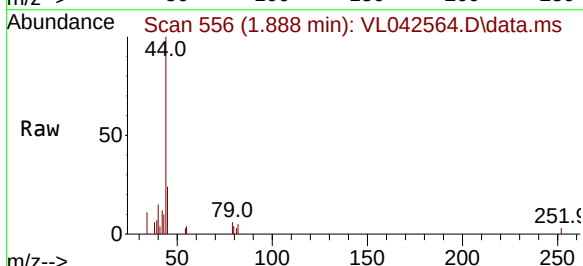
Acq: 21 May 2025 14:14

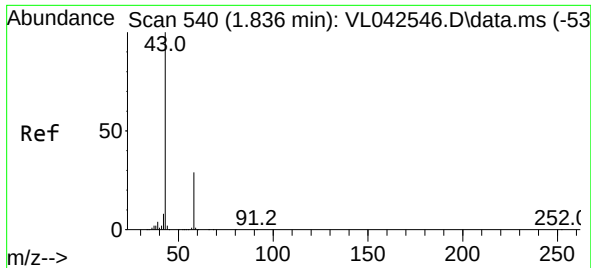
Tgt Ion: 45 Resp: 378

Ion Ratio Lower Upper

45 100

46 0.0 15.3 61.3#

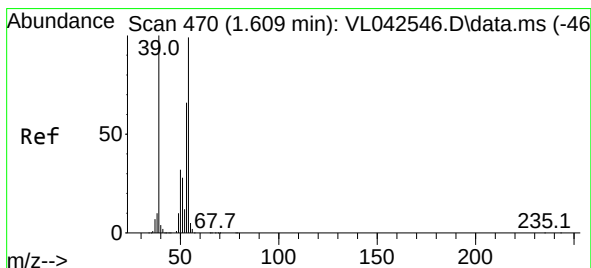
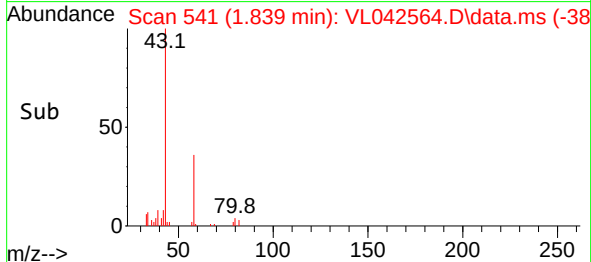
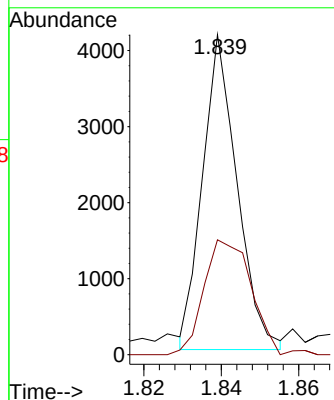
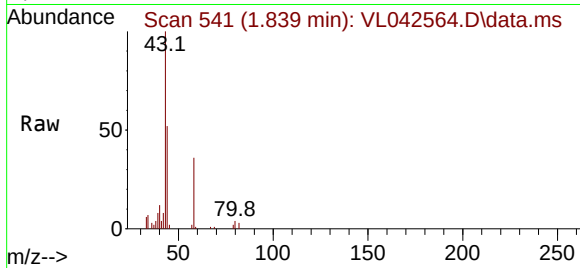




#15
Acetone
Concen: 0.176 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042564.D
Acq: 21 May 2025 14:14

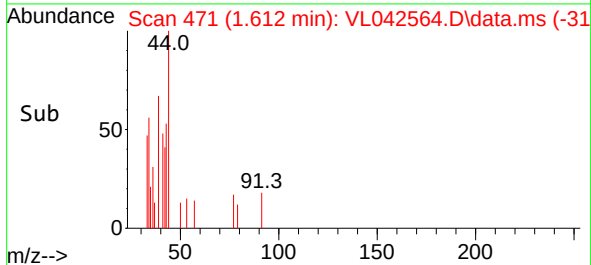
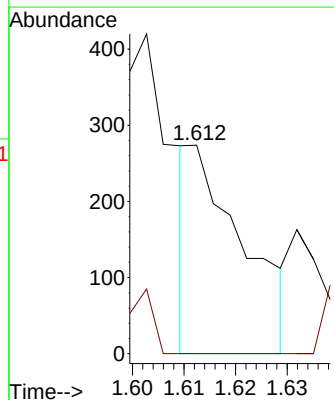
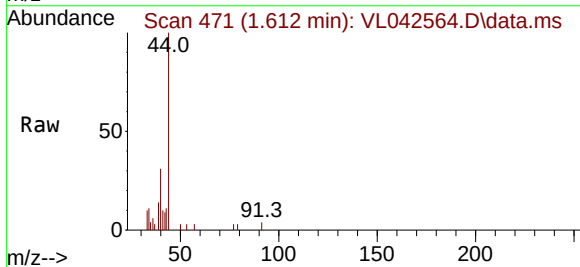
Instrument :
MSVOA_L
ClientSampleId :
QC051325 CAN 10331

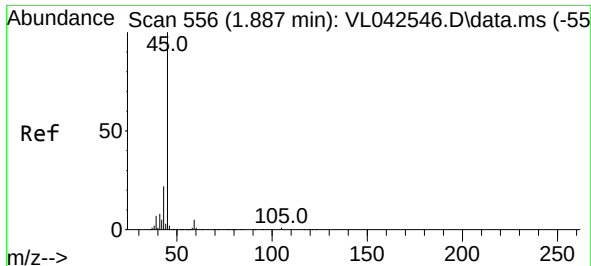
Tgt Ion: 43 Resp: 2563
Ion Ratio Lower Upper
43 100
58 50.5 24.2 36.2#



#16
1,3-Butadiene
Concen: 0.033 ppbv
RT: 1.612 min Scan# 471
Delta R.T. 0.003 min
Lab File: VL042564.D
Acq: 21 May 2025 14:14

Tgt Ion: 39 Resp: 197
Ion Ratio Lower Upper
39 100
54 0.0 71.8 107.8#

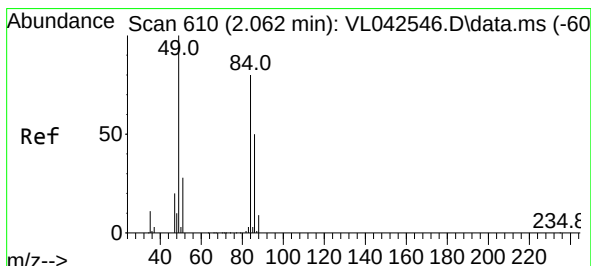
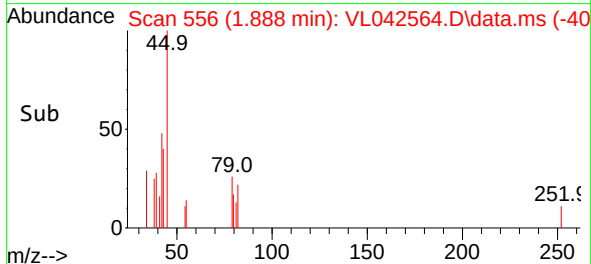
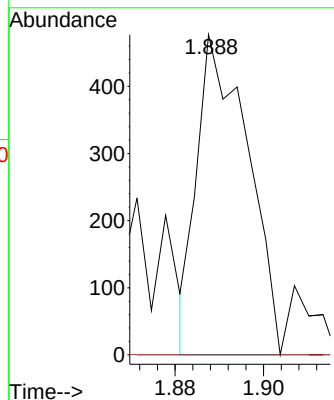
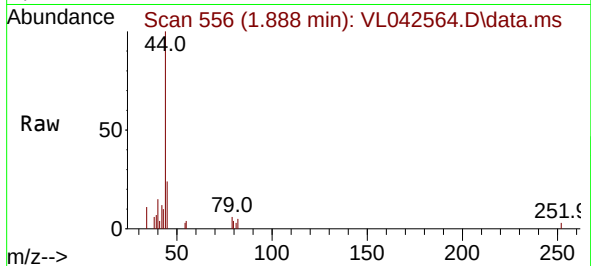




#19
Isopropyl Alcohol
Concen: 0.046 ppbv
RT: 1.888 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042564.D
Acq: 21 May 2025 14:14

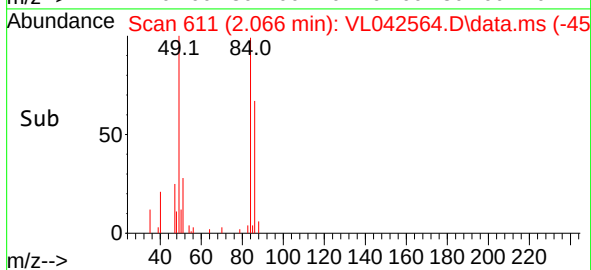
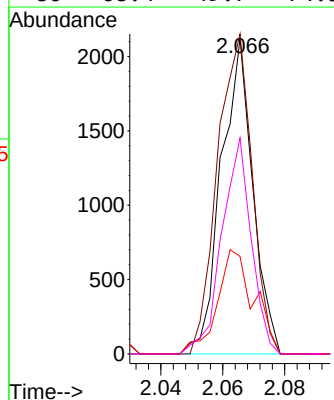
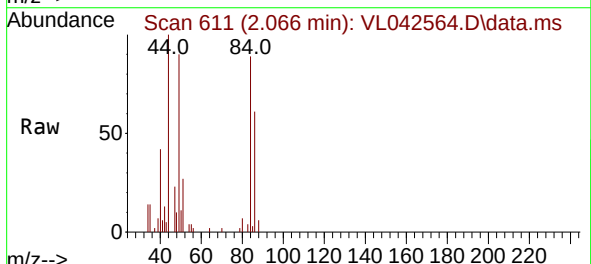
Instrument :
MSVOA_L
ClientSampleId :
QC051325 CAN 10331

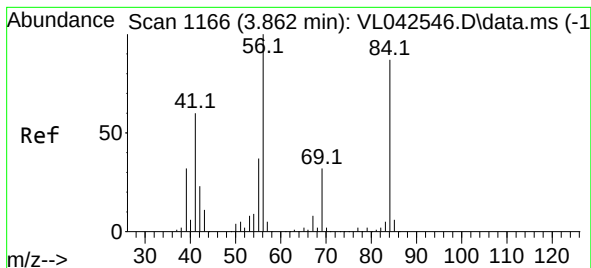
Tgt Ion: 45 Resp: 378
Ion Ratio Lower Upper
45 100
58 342.6 35.3 52.9#



#20
Methylene Chloride
Concen: 0.213 ppbv
RT: 2.066 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042564.D
Acq: 21 May 2025 14:14

Tgt Ion: 84 Resp: 1500
Ion Ratio Lower Upper
84 100
49 101.4 99.7 149.5
51 30.9 29.7 44.5
86 68.4 49.7 74.5





#30

Cyclohexane

Concen: 0.270 ppbv

RT: 3.969 min Scan# 1199

Delta R.T. 0.107 min

Lab File: VL042564.D

Acq: 21 May 2025 14:14

Instrument :

MSVOA_1

ClientSampleId :

QC051325 CAN 10331

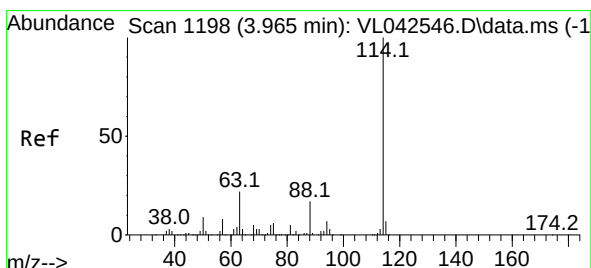
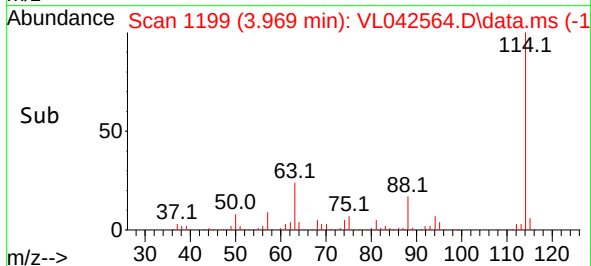
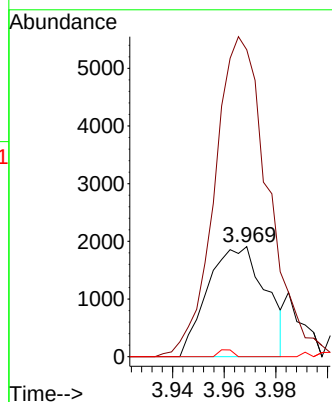
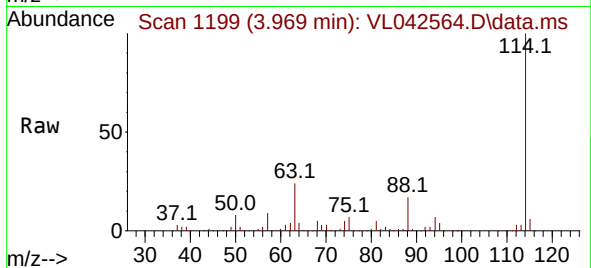
Tgt Ion: 84 Resp: 2973

Ion Ratio Lower Upper

84 100

56 272.1 92.3 138.5#

41 1.5 57.0 85.4#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.969 min Scan# 1199

Delta R.T. 0.003 min

Lab File: VL042564.D

Acq: 21 May 2025 14:14

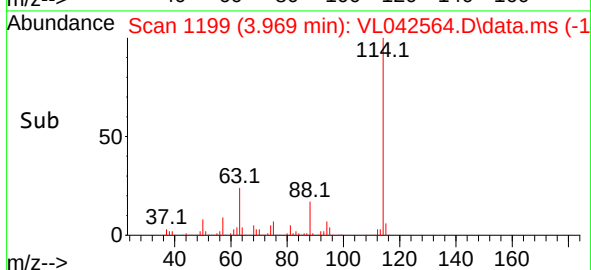
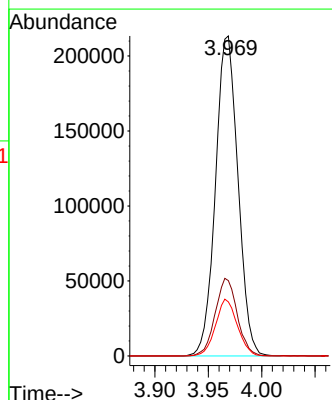
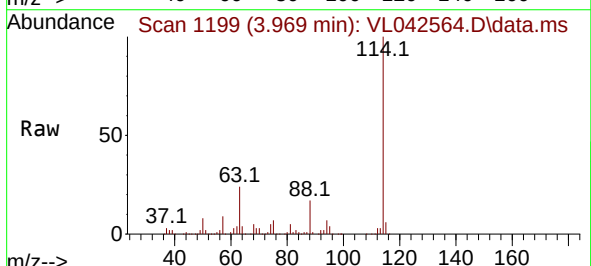
Tgt Ion: 114 Resp: 312149

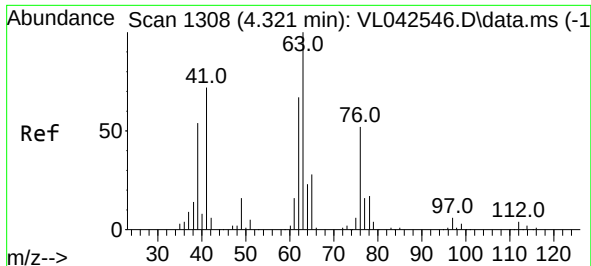
Ion Ratio Lower Upper

114 100

63 23.9 18.4 27.6

88 17.2 14.0 21.0





#39

1,2-Dichloropropane

Concen: 8.381 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.356 min

Lab File: VL042564.D

Acq: 21 May 2025 14:14

Instrument :

MSVOA_L

ClientSampleId :

QC051325 CAN 10331

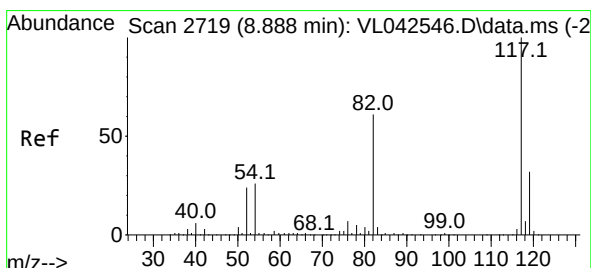
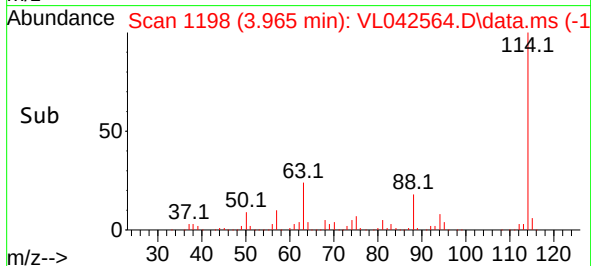
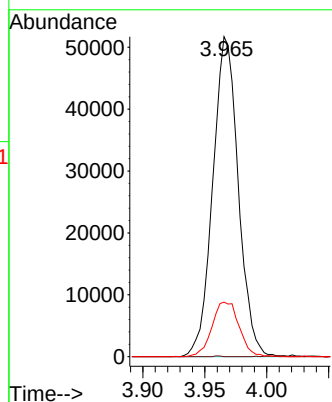
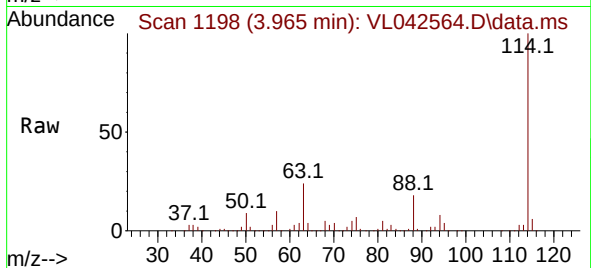
Tgt Ion: 63 Resp: 74307

Ion Ratio Lower Upper

63 100

41 0.0 58.0 87.0#

62 17.1 53.3 79.9#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2719

Delta R.T. 0.000 min

Lab File: VL042564.D

Acq: 21 May 2025 14:14

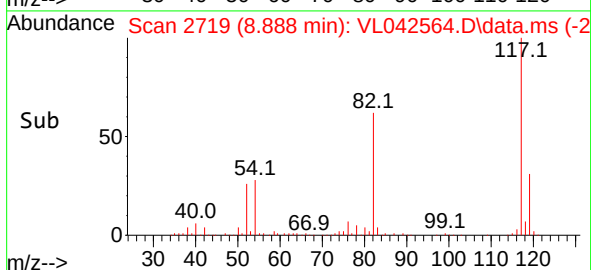
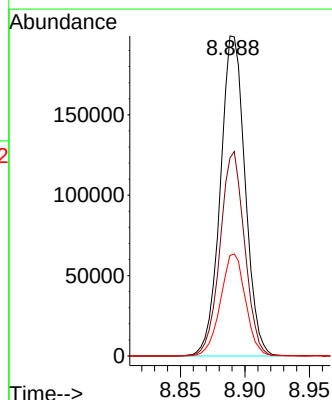
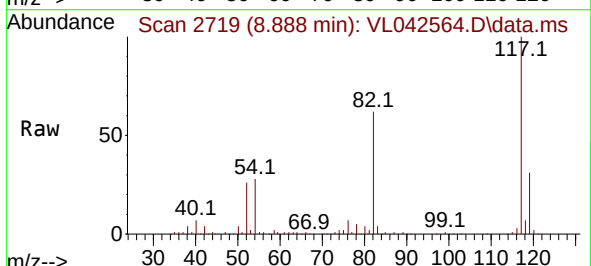
Tgt Ion: 117 Resp: 265290

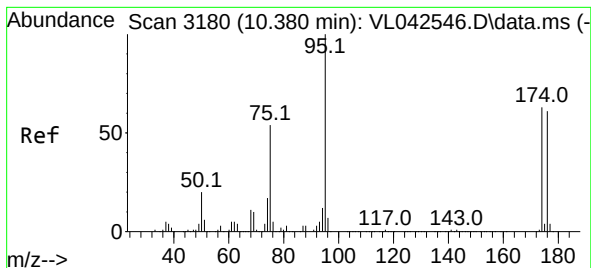
Ion Ratio Lower Upper

117 100

82 63.3 51.0 76.4

119 32.3 27.0 40.4





#68

1-Bromo-4-Fluorobenzene

Concen: 10.088 ppbv

RT: 10.384 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL042564.D

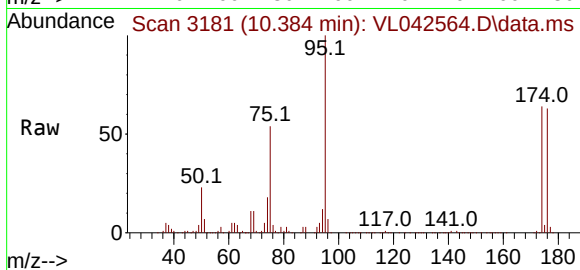
Acq: 21 May 2025 14:14

Instrument :

MSVOA_L

ClientSampleId :

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Tgt Ion: 95 Resp: 214186

Ion Ratio Lower Upper

95 100

174 65.0 52.0 78.0

175 4.5 3.8 5.6

