

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042918.D
 Acq On : 09 Sep 2025 08:22
 Operator : SY/MD
 Sample : Q3052-01DL 200X
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Sep 10 04:00:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

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

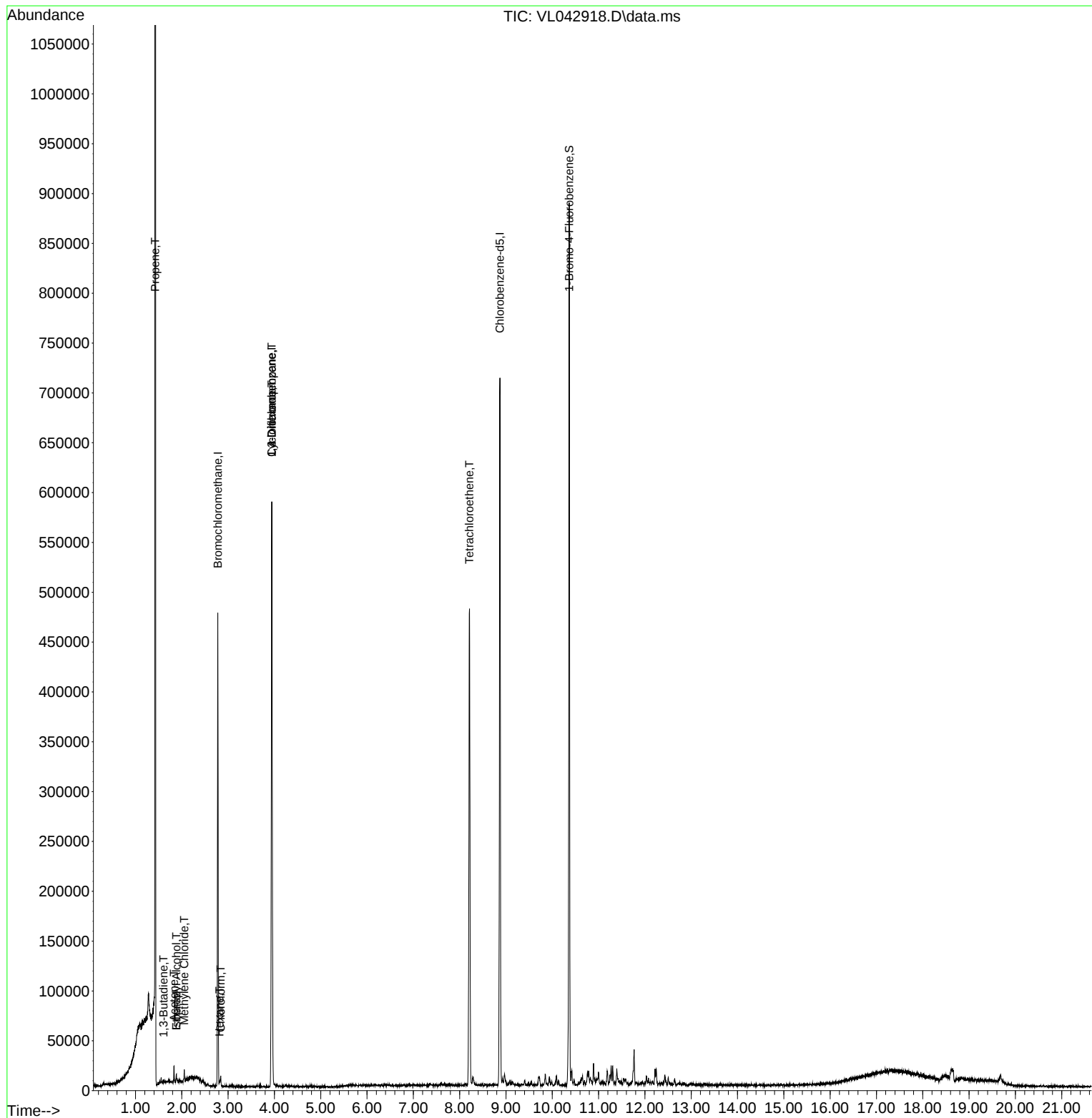
Internal Standards						
1) Bromochloromethane	2.778	49	135091	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	321825	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	280969	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	222436	10.556	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 105.600%	
Target Compounds						
					Qvalue	
9) Propene	1.425	41	348	0.037	ppbv	87
13) Ethanol	1.881	45	3376	3.907	ppbv #	32
15) Acetone	1.829	43	6927	0.388	ppbv	100
16) 1,3-Butadiene	1.603	39	273	0.034	ppbv #	10
19) Isopropyl Alcohol	1.881	45	3376	0.316	ppbv #	74
20) Methylene Chloride	2.053	84	1679	0.224	ppbv #	78
26) Hexane	2.816	57	830	0.042	ppbv #	42
29) Chloroform	2.839	83	3705	0.130	ppbv #	78
30) Cyclohexane	3.943	84	1368	0.078	ppbv #	1
39) 1,2-Dichloropropane	3.943	63	86559	7.691	ppbv #	27
52) Tetrachloroethene	8.212	164	79545	7.135	ppbv	95

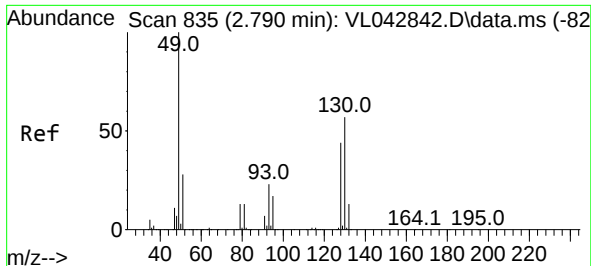
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 10 04:00:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

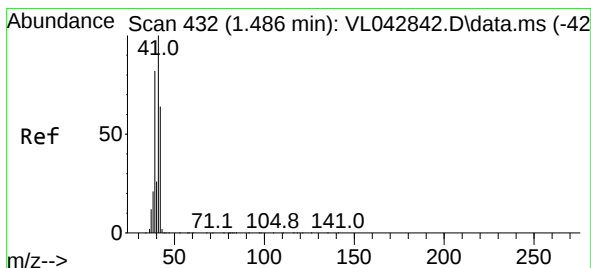
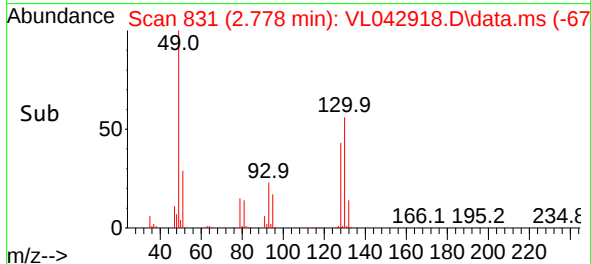
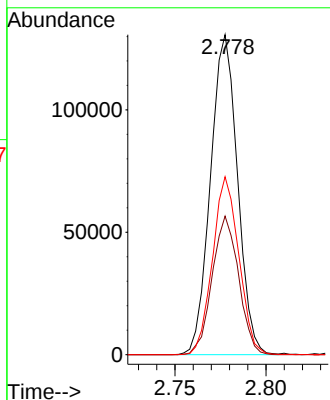
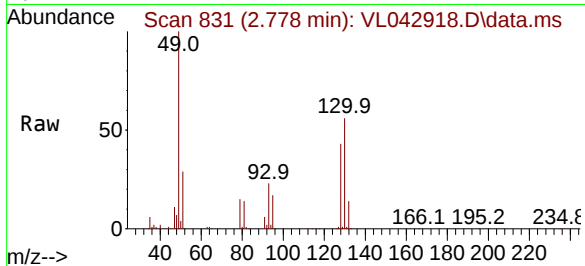




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.778 min Scan# 81
Delta R.T. 0.001 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

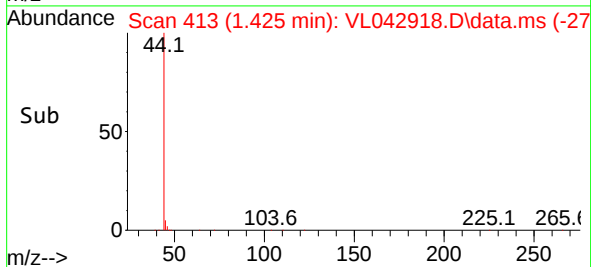
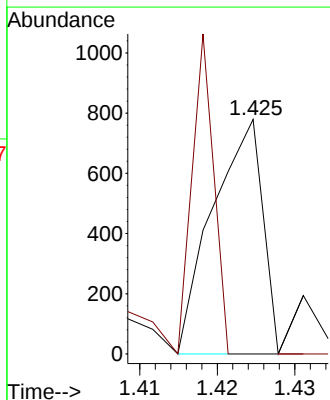
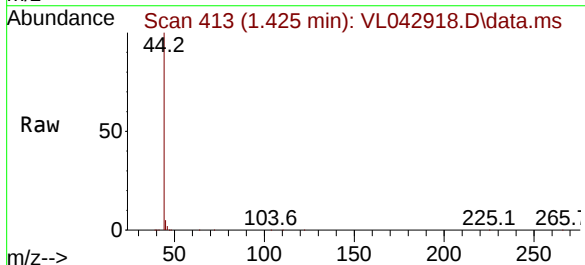
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

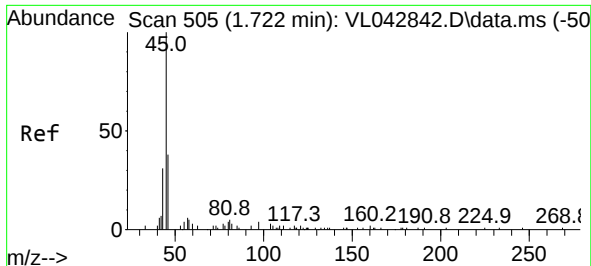
Tgt Ion: 49 Resp: 135091
Ion Ratio Lower Upper
49 100
128 42.3 23.7 71.1
130 54.0 30.6 91.6



#9
Propene
Concen: 0.037 ppbv
RT: 1.425 min Scan# 413
Delta R.T. -0.052 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

Tgt Ion: 41 Resp: 348
Ion Ratio Lower Upper
41 100
42 76.7 53.0 79.4

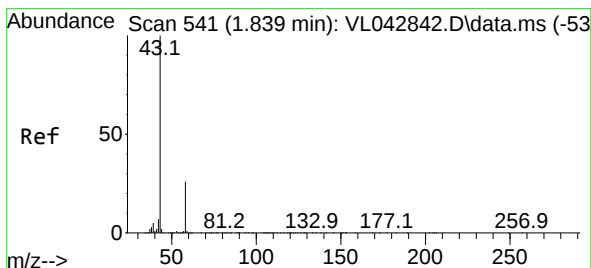
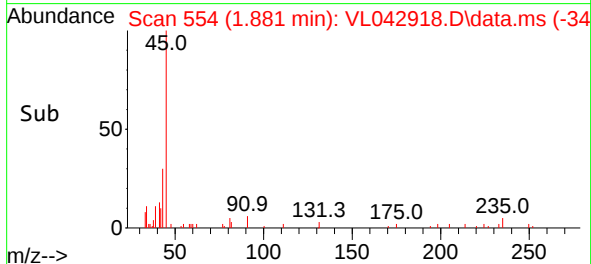
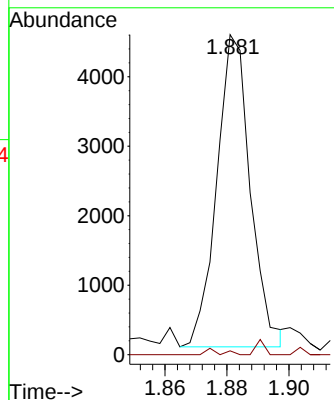
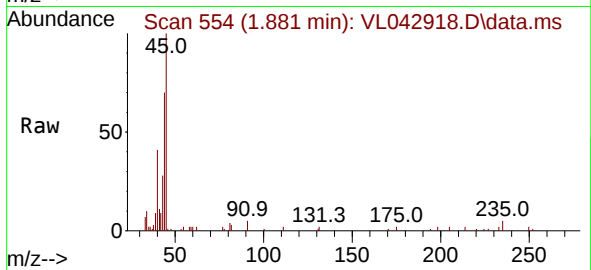




#13
Ethanol
Concen: 3.907 ppbv
RT: 1.881 min Scan# 51
Delta R.T. 0.165 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

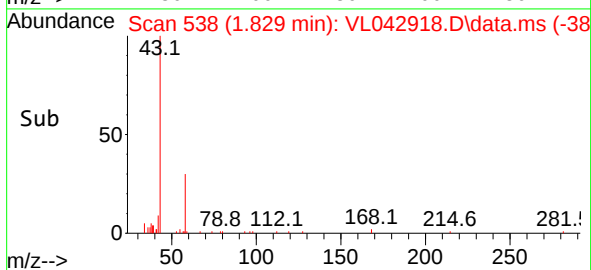
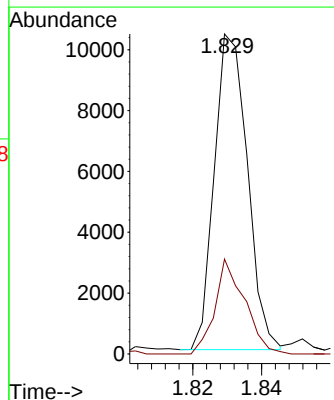
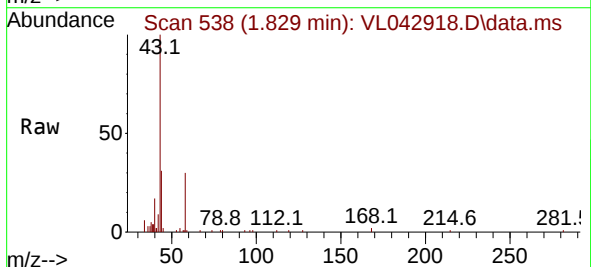
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

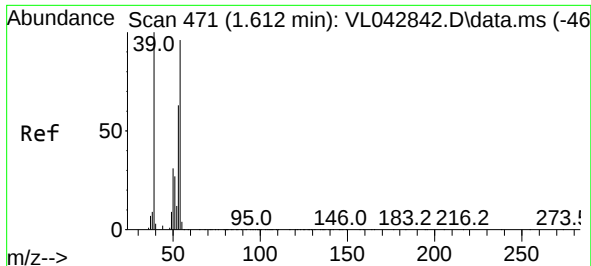
Tgt Ion: 45 Resp: 3376
Ion Ratio Lower Upper
45 100
46 0.0 17.5 69.9#



#15
Acetone
Concen: 0.388 ppbv
RT: 1.829 min Scan# 538
Delta R.T. 0.000 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

Tgt Ion: 43 Resp: 6927
Ion Ratio Lower Upper
43 100
58 27.7 22.4 33.6

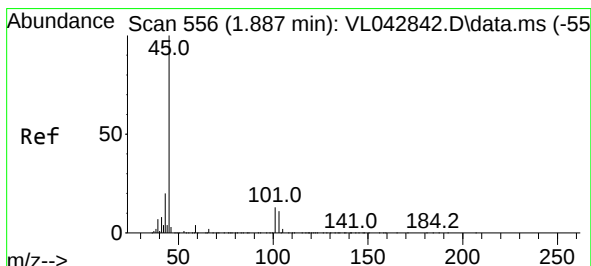
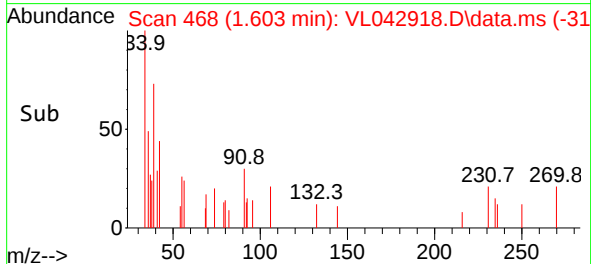
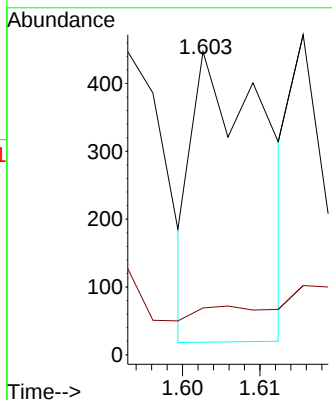
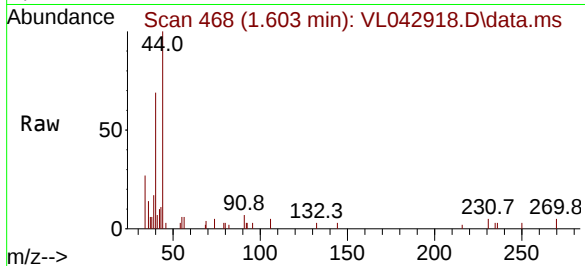




#16
1,3-Butadiene
Concen: 0.034 ppbv
RT: 1.603 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

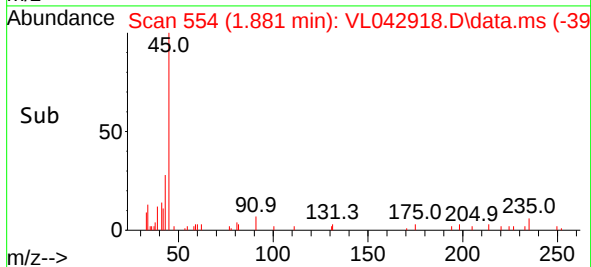
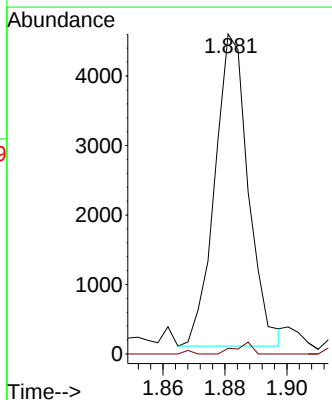
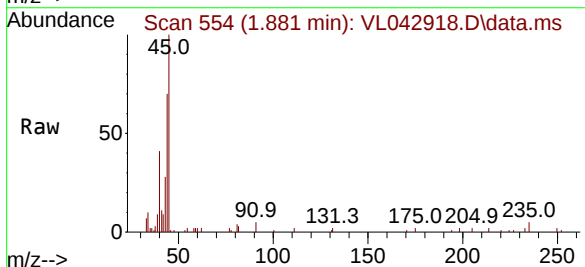
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

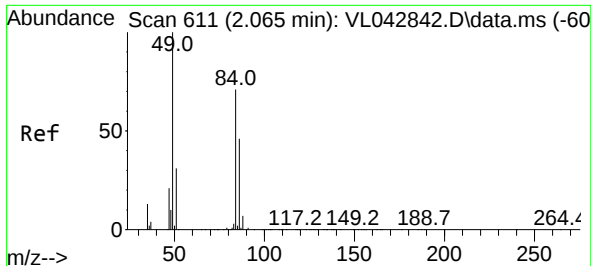
Tgt Ion: 39 Resp: 273
Ion Ratio Lower Upper
39 100
54 0.0 63.6 95.4#



#19
Isopropyl Alcohol
Concen: 0.316 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.000 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

Tgt Ion: 45 Resp: 3376
Ion Ratio Lower Upper
45 100
58 56.9 32.7 49.1#

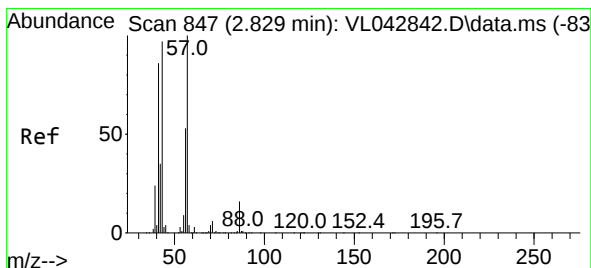
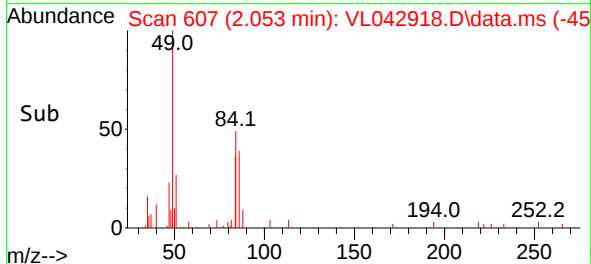
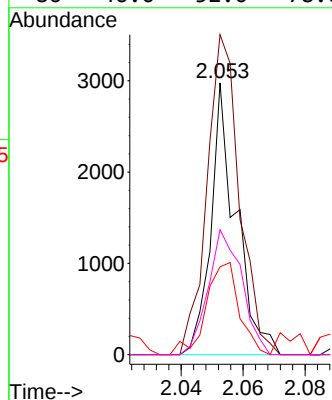
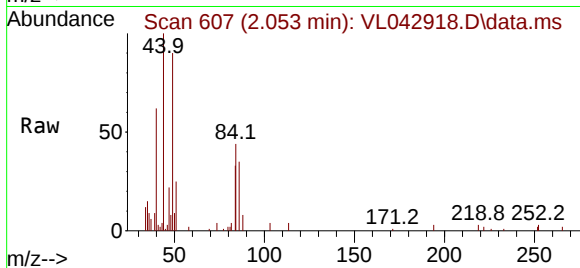




#20
Methylene Chloride
Concen: 0.224 ppbv
RT: 2.053 min Scan# 607
Delta R.T. -0.003 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

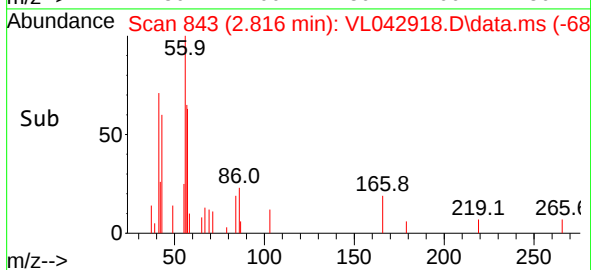
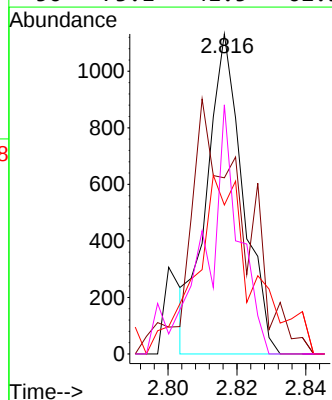
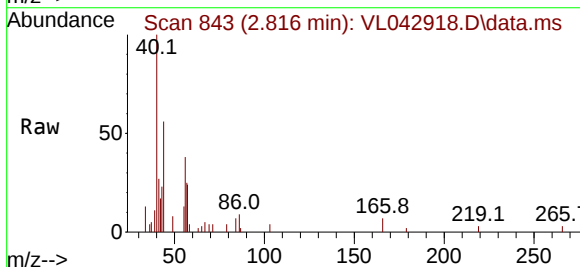
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

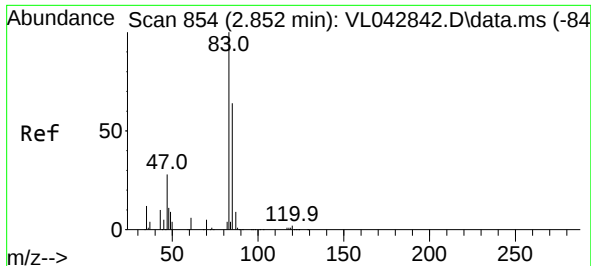
Tgt Ion:	84	Resp:	1679
Ion	Ratio	Lower	Upper
84	100		
49	117.7	112.3	168.5
51	27.4	36.0	54.0#
86	46.0	52.0	78.0#



#26
Hexane
Concen: 0.042 ppbv
RT: 2.816 min Scan# 843
Delta R.T. 0.000 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

Tgt Ion:	57	Resp:	830
Ion	Ratio	Lower	Upper
57	100		
41	116.1	68.6	103.0#
43	92.2	168.5	252.7#
56	73.1	41.5	62.3#





#29

Chloroform

Concen: 0.130 ppbv

RT: 2.839 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL042918.D

Acq: 09 Sep 2025 08:22

Instrument :

MSVOA_L

ClientSampleId :

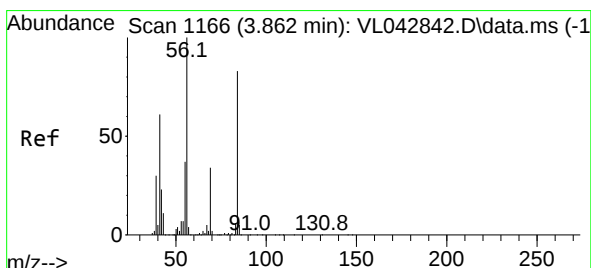
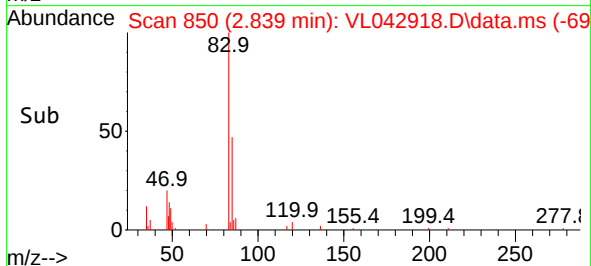
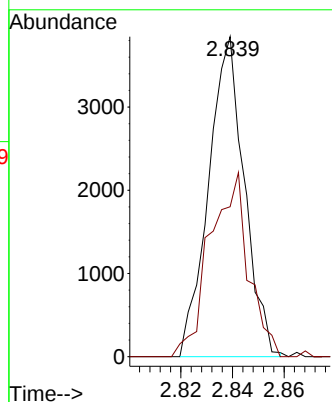
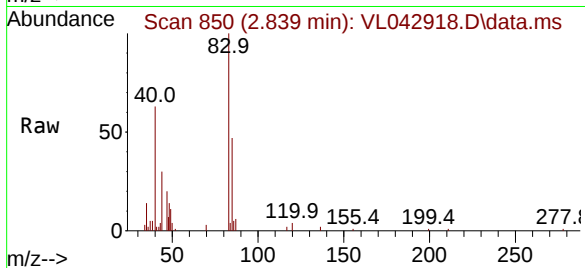
SV1DL

Tgt Ion: 83 Resp: 3705

Ion Ratio Lower Upper

83 100

85 46.8 51.1 76.7#



#30

Cyclohexane

Concen: 0.078 ppbv

RT: 3.943 min Scan# 1191

Delta R.T. 0.100 min

Lab File: VL042918.D

Acq: 09 Sep 2025 08:22

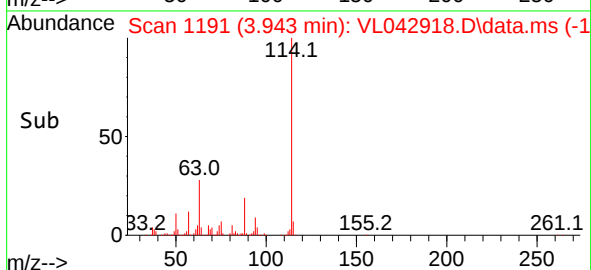
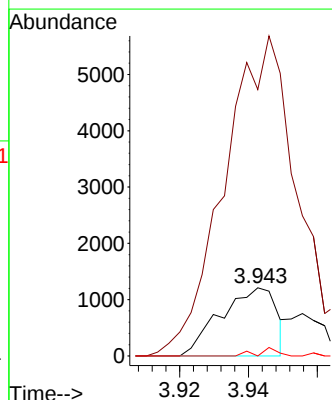
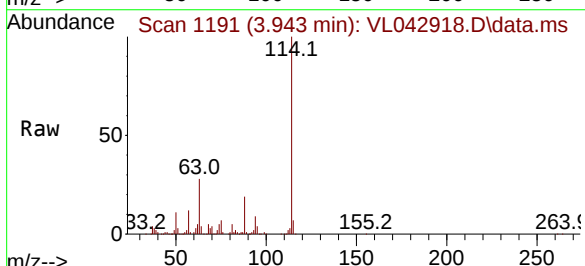
Tgt Ion: 84 Resp: 1368

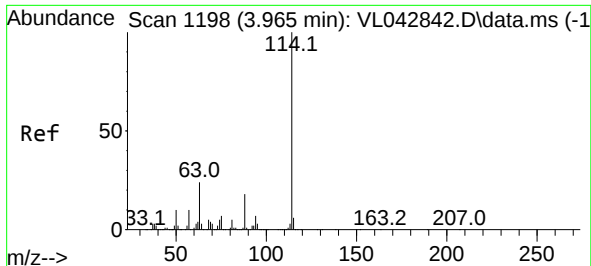
Ion Ratio Lower Upper

84 100

56 622.9 98.8 148.2#

41 4.8 61.3 91.9#

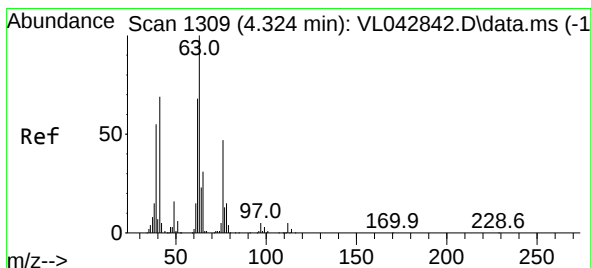
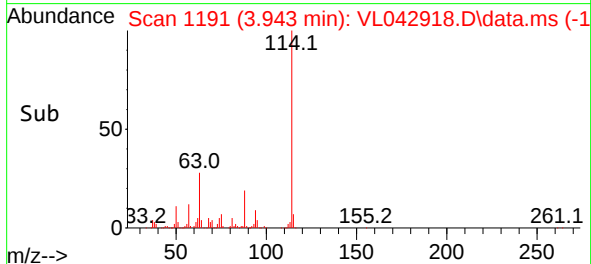
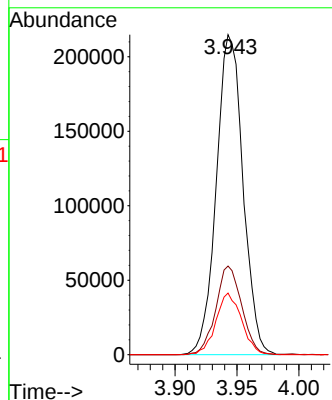
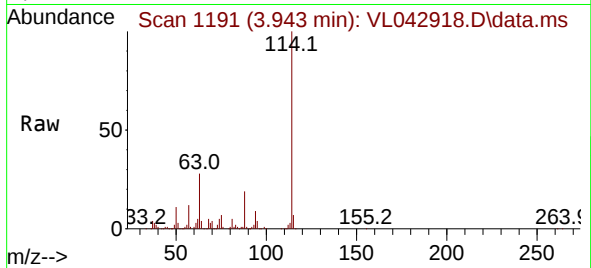




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.943 min Scan# 1191
 Delta R.T. 0.000 min
 Lab File: VL042918.D
 Acq: 09 Sep 2025 08:22

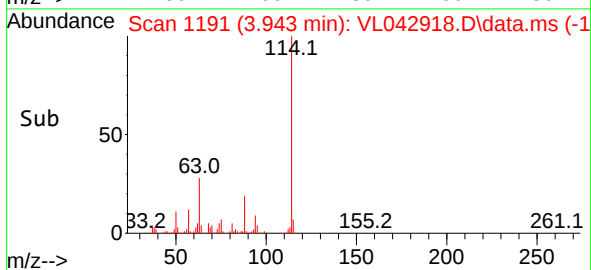
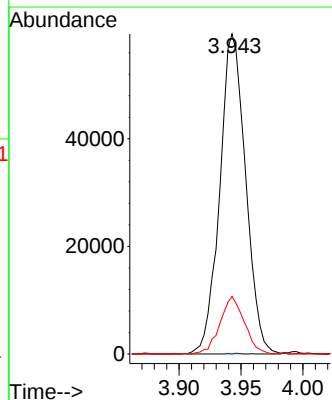
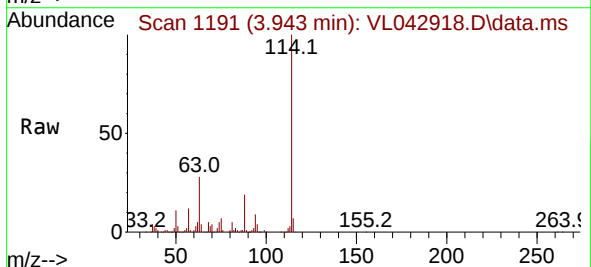
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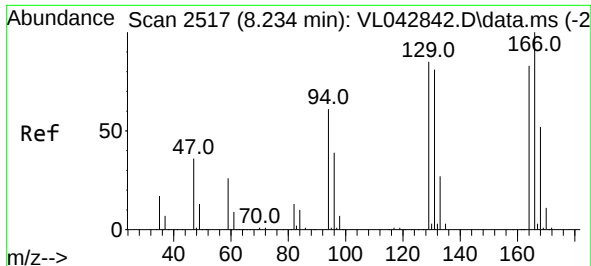
Tgt Ion:114 Resp: 321825
 Ion Ratio Lower Upper
 114 100
 63 27.0 19.7 29.5
 88 18.6 14.4 21.6



#39
 1,2-Dichloropropane
 Concen: 7.691 ppbv
 RT: 3.943 min Scan# 1191
 Delta R.T. -0.356 min
 Lab File: VL042918.D
 Acq: 09 Sep 2025 08:22

Tgt Ion: 63 Resp: 86559
 Ion Ratio Lower Upper
 63 100
 41 0.5 55.0 82.4#
 62 18.0 54.4 81.6#

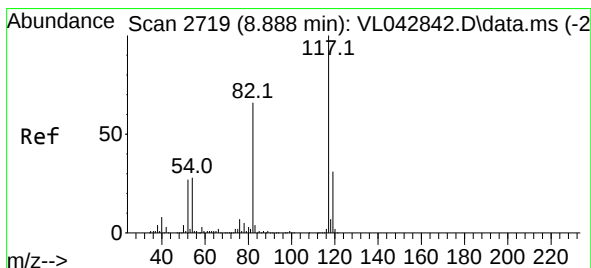
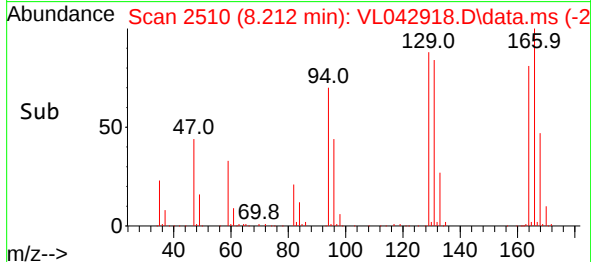
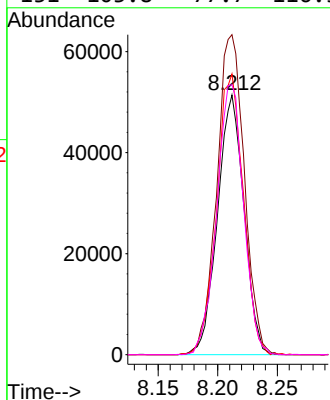
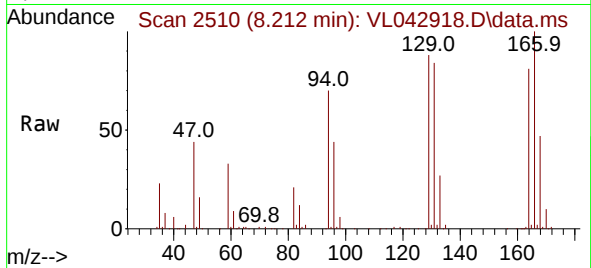




#52
Tetrachloroethene
Concen: 7.135 ppbv
RT: 8.212 min Scan# 2112
Delta R.T. 0.000 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

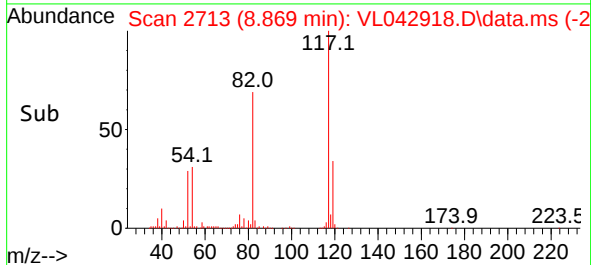
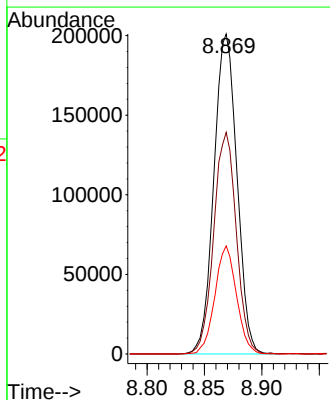
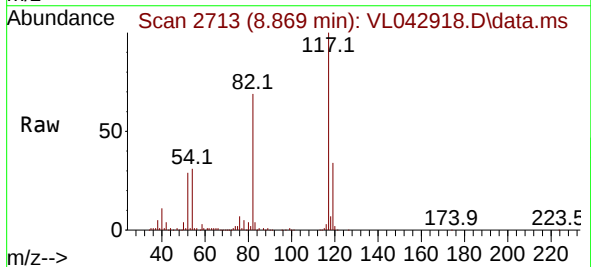
Instrument :
MSVOA_L
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SV1DL

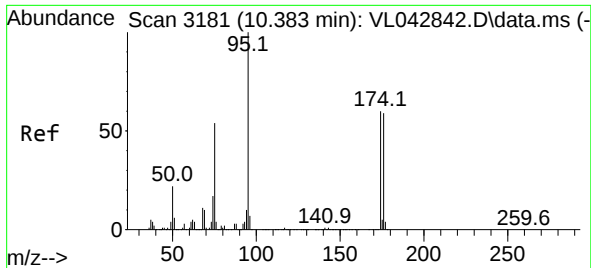
Tgt Ion:164 Resp: 79545
Ion Ratio Lower Upper
164 100
166 123.2 96.5 144.7
129 108.1 81.8 122.6
131 103.8 77.7 116.5



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. 0.000 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

Tgt Ion:117 Resp: 280969
Ion Ratio Lower Upper
117 100
82 67.9 54.6 81.8
119 31.8 25.9 38.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.556 ppbv
 RT: 10.364 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: VL042918.D
 Acq: 09 Sep 2025 08:22

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tgt Ion: 95 Resp: 222436
 Ion Ratio Lower Upper
 95 100
 174 56.3 48.4 72.6
 175 3.9 3.8 5.8

