

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL120825\
 Data File : VL043330.D
 Acq On : 09 Dec 2025 01:11
 Operator : SY/MD
 Sample : Q3798-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Dec 09 01:51:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Nov 19 01:11:25 2025
 Response via : Initial Calibration

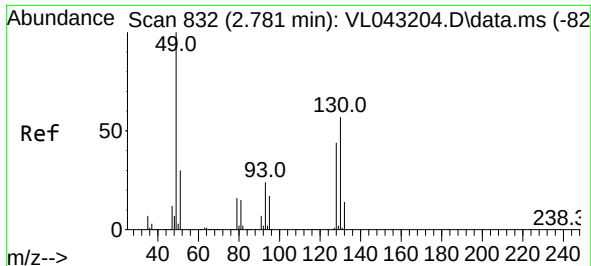
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.784	49	135207	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	342039	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.868	117	262872	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	189370	9.828	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	600	0.031	ppbv	96
3) Chlorodifluoromethane	1.479	51	1334	0.071	ppbv #	68
7) Chloroethane	1.706	64	119	0.039	ppbv #	41
9) Propene	1.482	41	1528	0.192	ppbv #	1
13) Ethanol	1.437	45	141071	50.375	ppbv #	1
15) Acetone	1.835	43	6355	0.338	ppbv	98
19) Isopropyl Alcohol	1.437	45	141071	13.290	ppbv #	36
20) Methylene Chloride	2.059	84	4603	0.051	ppbv	87
29) Chloroform	2.845	83	292025	11.567	ppbv	98
30) Cyclohexane	3.942	84	1423	0.096	ppbv #	1
39) 1,2-Dichloropropane	3.949	63	86370	7.204	ppbv #	24

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

Quant Time: Dec 09 01:51:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
Response via : Initial Calibration

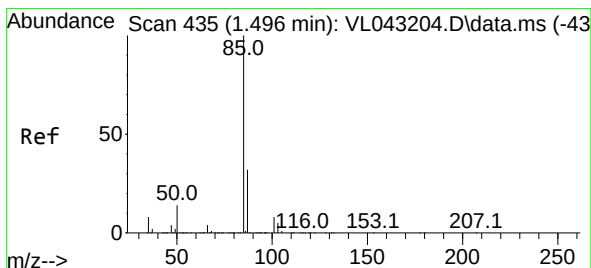
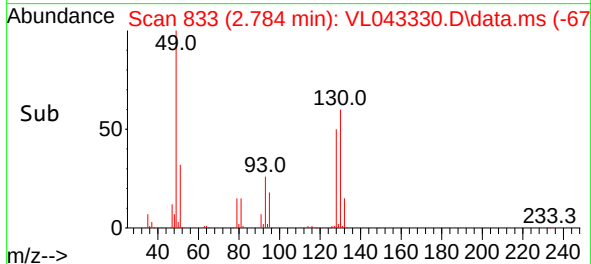
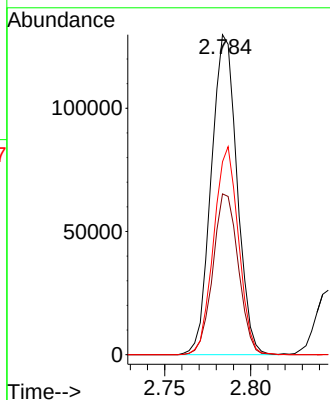
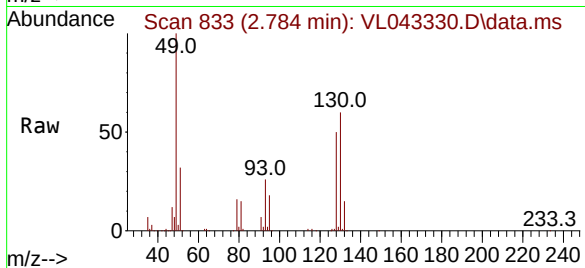




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043330.D
Acq: 09 Dec 2025 01:11

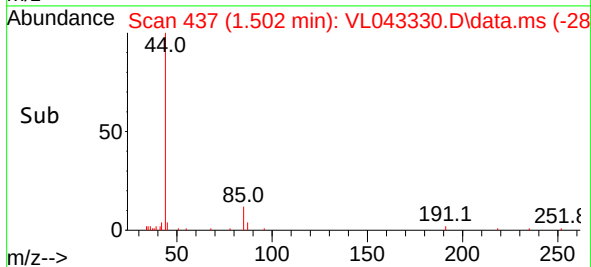
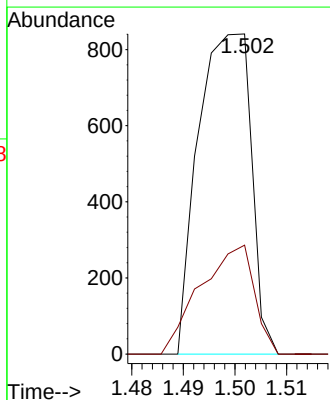
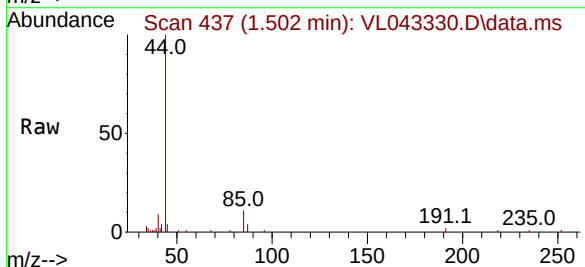
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

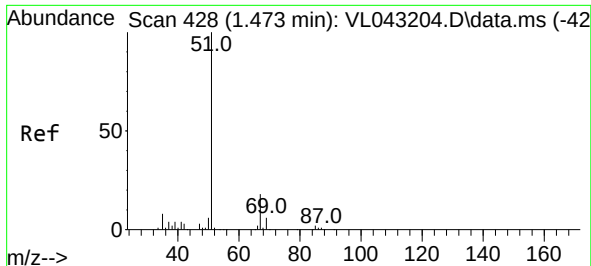
Tgt Ion: 49 Resp: 135207
Ion Ratio Lower Upper
49 100
128 49.7 23.0 69.0
130 62.5 29.9 89.7



#2
Dichlorodifluoromethane
Concen: 0.031 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.006 min
Lab File: VL043330.D
Acq: 09 Dec 2025 01:11

Tgt Ion: 85 Resp: 600
Ion Ratio Lower Upper
85 100
87 34.0 25.4 38.2





#3

Chlorodifluoromethane

Concen: 0.071 ppbv

RT: 1.479 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL043330.D

Acq: 09 Dec 2025 01:11

Instrument :

MSVOA_L

ClientSampleId :

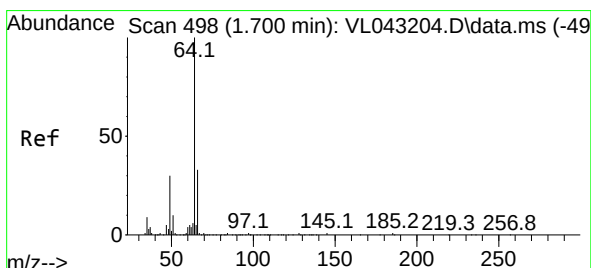
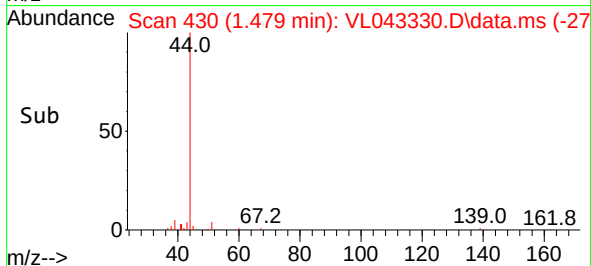
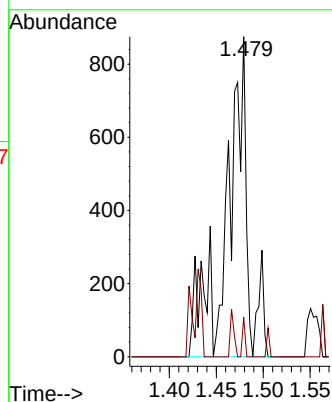
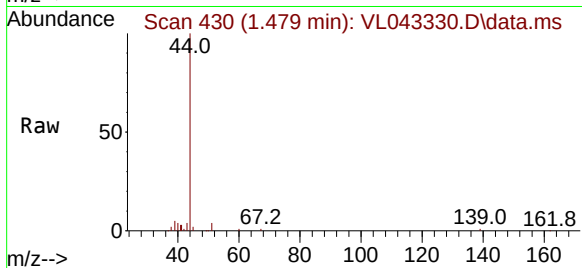
SV1DL

Tgt Ion: 51 Resp: 1334

Ion Ratio Lower Upper

51 100

67 4.3 14.9 22.3#



#7

Chloroethane

Concen: 0.039 ppbv

RT: 1.706 min Scan# 500

Delta R.T. 0.006 min

Lab File: VL043330.D

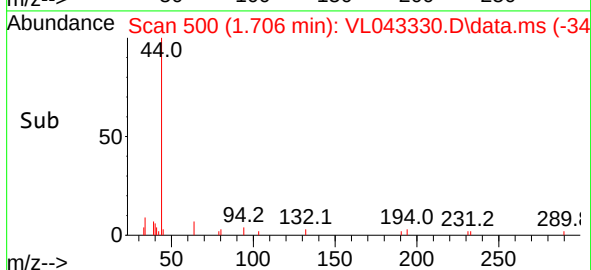
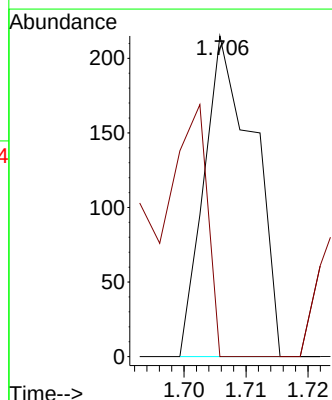
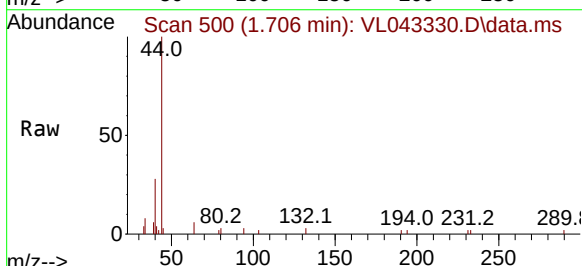
Acq: 09 Dec 2025 01:11

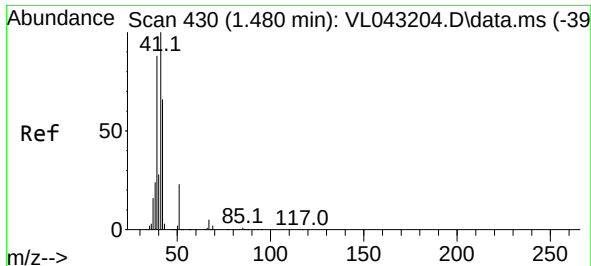
Tgt Ion: 64 Resp: 119

Ion Ratio Lower Upper

64 100

66 0.0 26.8 40.2#





#9

Propene

Concen: 0.192 ppbv

RT: 1.482 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL043330.D

Acq: 09 Dec 2025 01:11

Instrument :

MSVOA_L

ClientSampleId :

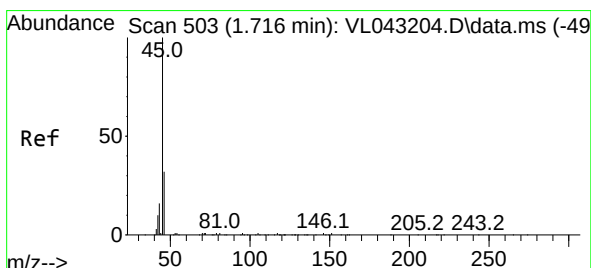
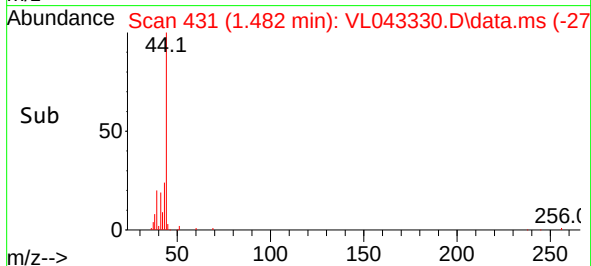
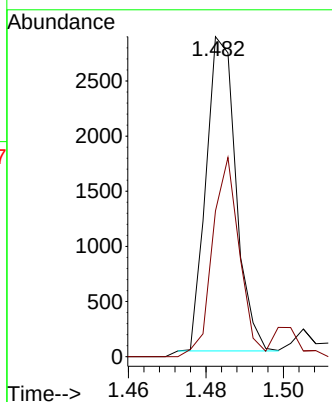
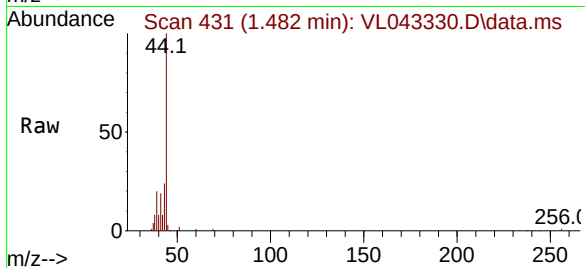
SV1DL

Tgt Ion: 41 Resp: 1528

Ion Ratio Lower Upper

41 100

42 64.6 3.7 5.5#



#13

Ethanol

Concen: 50.375 ppbv

RT: 1.437 min Scan# 417

Delta R.T. -0.279 min

Lab File: VL043330.D

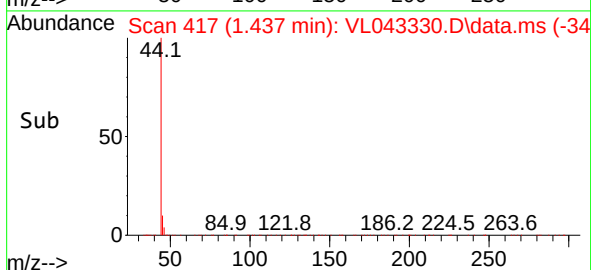
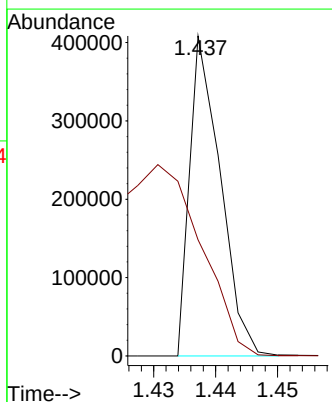
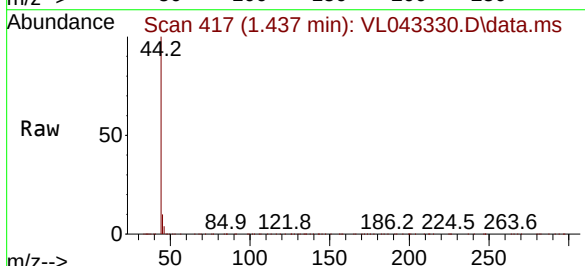
Acq: 09 Dec 2025 01:11

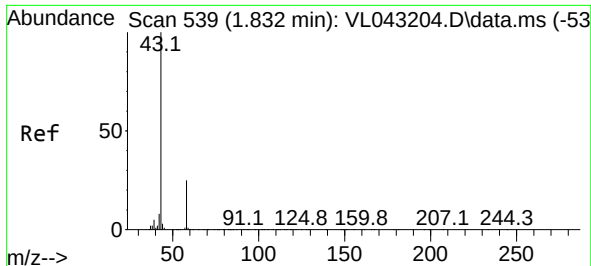
Tgt Ion: 45 Resp: 141071

Ion Ratio Lower Upper

45 100

46 187.7 15.0 59.8#

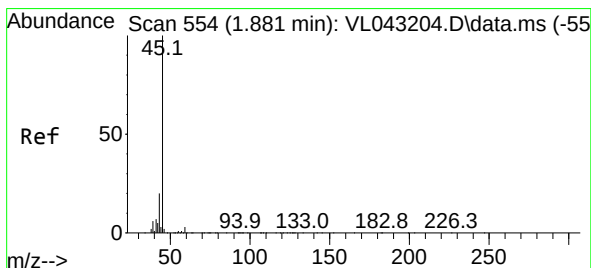
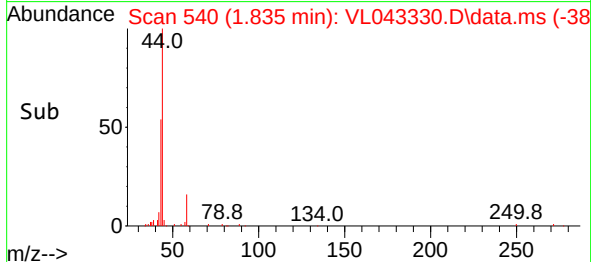
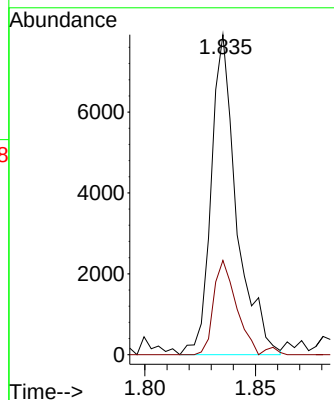
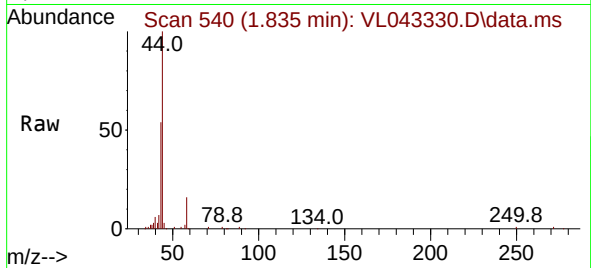




#15
Acetone
Concen: 0.338 ppbv
RT: 1.835 min Scan# 54
Delta R.T. 0.003 min
Lab File: VL043330.D
Acq: 09 Dec 2025 01:11

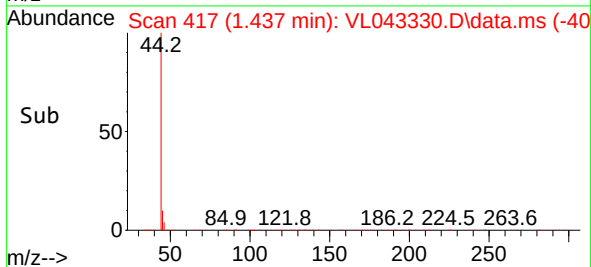
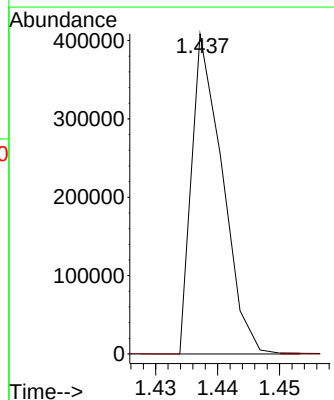
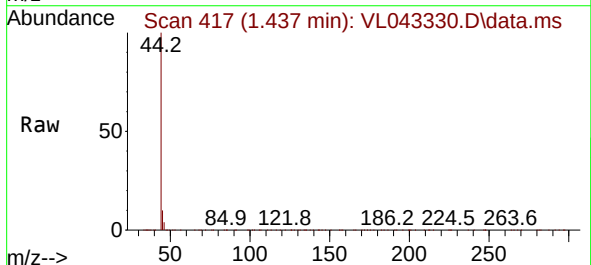
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

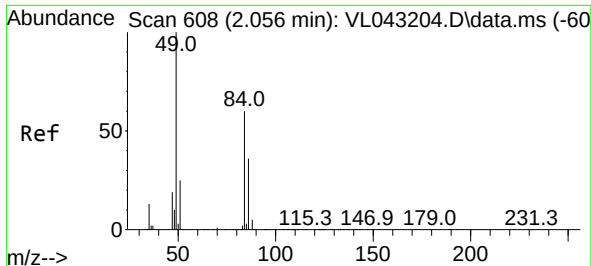
Tgt Ion: 43 Resp: 6355
Ion Ratio Lower Upper
43 100
58 27.1 20.7 31.1



#19
Isopropyl Alcohol
Concen: 13.290 ppbv
RT: 1.437 min Scan# 417
Delta R.T. -0.444 min
Lab File: VL043330.D
Acq: 09 Dec 2025 01:11

Tgt Ion: 45 Resp: 141071
Ion Ratio Lower Upper
45 100
58 0.1 31.3 46.9#



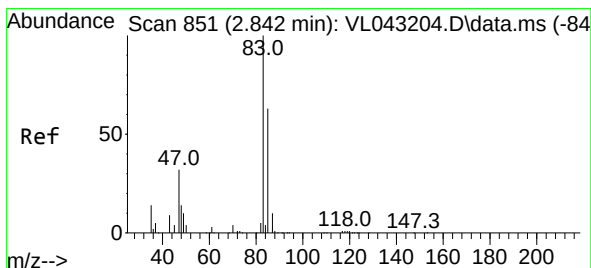
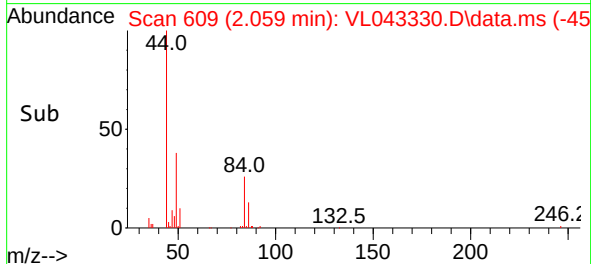
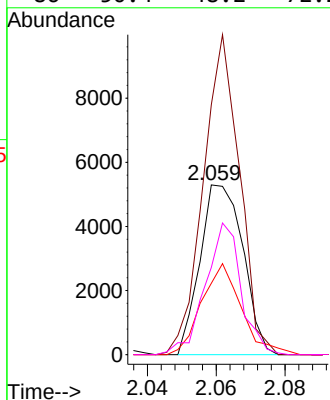
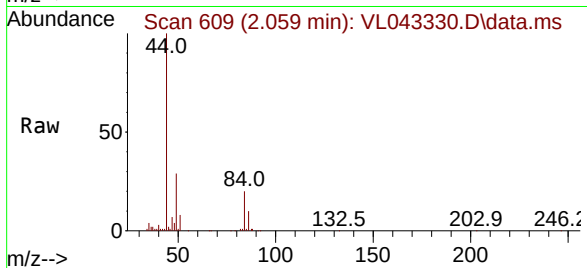


#20
Methylene Chloride
Concen: 0.051 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043330.D
Acq: 09 Dec 2025 01:11

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 84 Resp: 4603

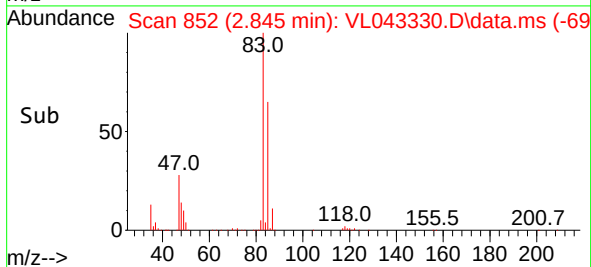
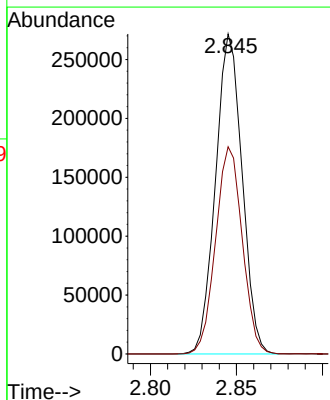
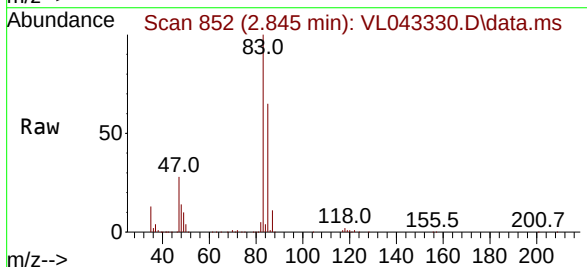
Ion	Ratio	Lower	Upper
84	100		
49	147.2	132.9	199.3
51	39.0	34.8	52.2
86	50.4	48.2	72.2

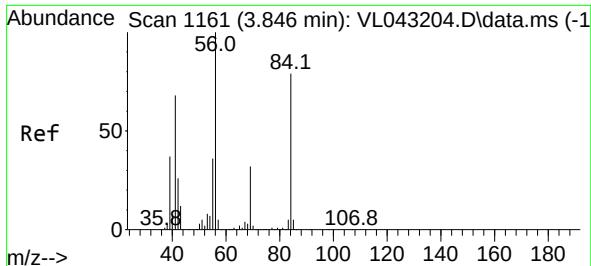


#29
Chloroform
Concen: 11.567 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.003 min
Lab File: VL043330.D
Acq: 09 Dec 2025 01:11

Tgt Ion: 83 Resp: 292025

Ion	Ratio	Lower	Upper
83	100		
85	64.7	50.5	75.7

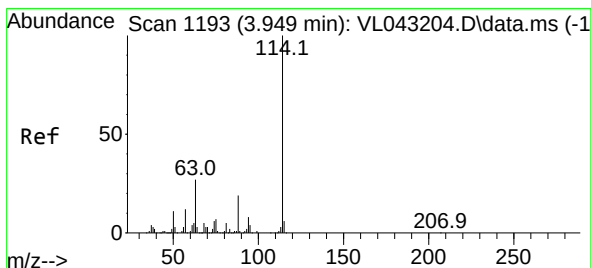
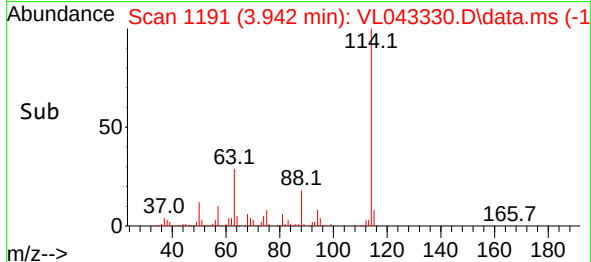
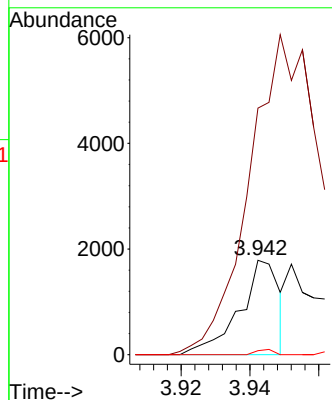
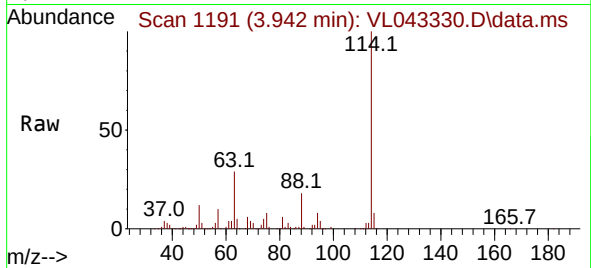




#30
Cyclohexane
Concen: 0.096 ppbv
RT: 3.942 min Scan# 1161
Delta R.T. 0.097 min
Lab File: VL043330.D
Acq: 09 Dec 2025 01:11

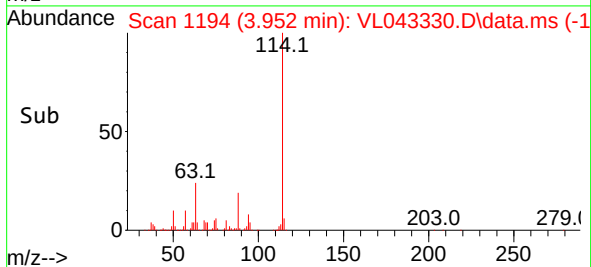
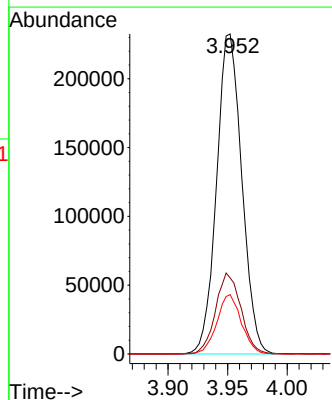
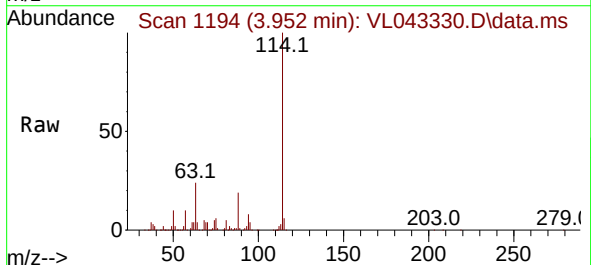
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

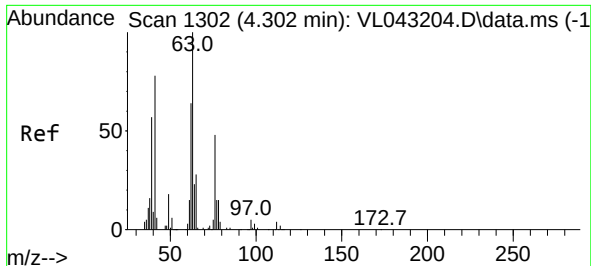
Tgt Ion: 84 Resp: 1423
Ion Ratio Lower Upper
84 100
56 0.0 104.7 157.1#
41 5.7 69.0 103.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043330.D
Acq: 09 Dec 2025 01:11

Tgt Ion: 114 Resp: 342039
Ion Ratio Lower Upper
114 100
63 25.4 21.0 31.6
88 18.0 14.9 22.3





#39

1,2-Dichloropropane

Concen: 7.204 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.353 min

Lab File: VL043330.D

Acq: 09 Dec 2025 01:11

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

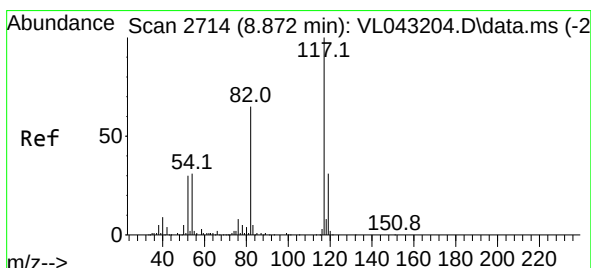
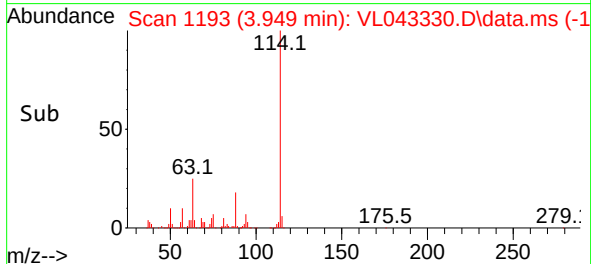
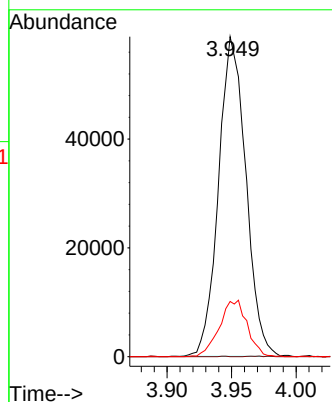
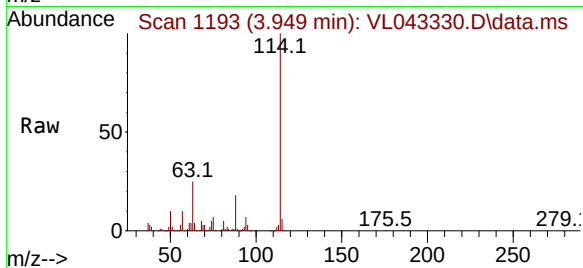
Tgt Ion: 63 Resp: 86370

Ion Ratio Lower Upper

63 100

41 0.0 62.6 93.8#

62 17.3 51.0 76.6#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.868 min Scan# 2713

Delta R.T. -0.004 min

Lab File: VL043330.D

Acq: 09 Dec 2025 01:11

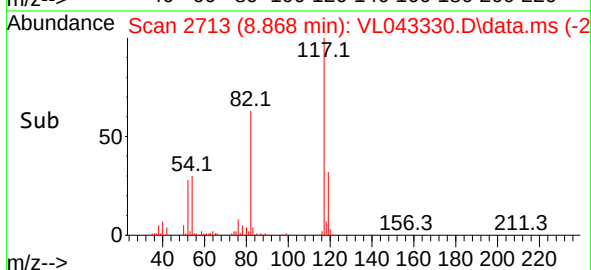
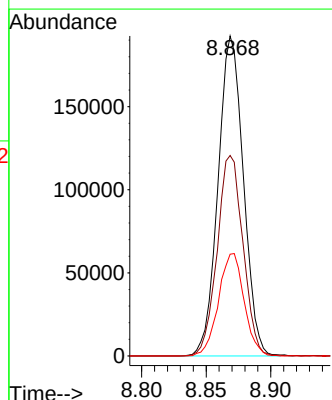
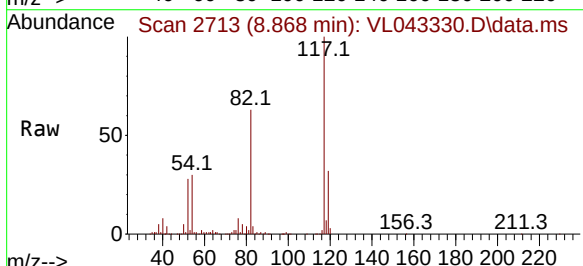
Tgt Ion: 117 Resp: 262872

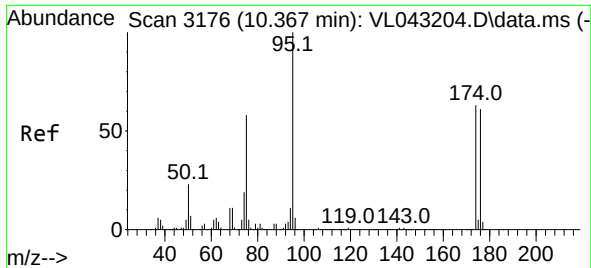
Ion Ratio Lower Upper

117 100

82 63.8 56.1 84.1

119 32.4 25.0 37.6





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.828 ppbv
 RT: 10.367 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VL043330.D
 Acq: 09 Dec 2025 01:11

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tgt Ion: 95 Resp: 189370

Ion	Ratio	Lower	Upper
95	100		
174	68.4	50.2	75.2
175	4.8	4.1	6.1

