

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112425\
 Data File : VL043290.D
 Acq On : 25 Nov 2025 08:21
 Operator : SY/MD
 Sample : QC112425 CAN 10315
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 26 00:10:41 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)

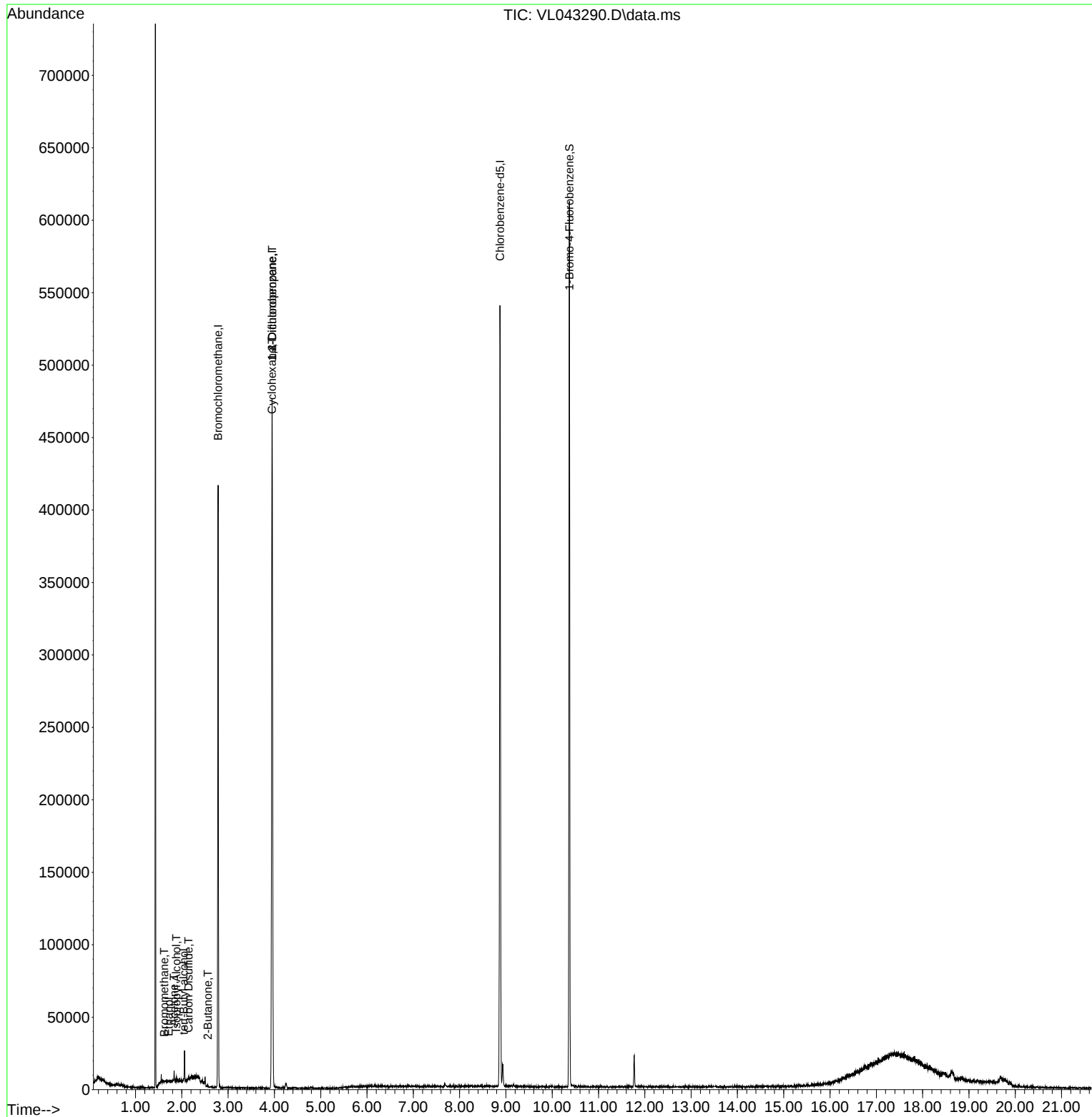
Internal Standards						
1) Bromochloromethane	2.784	49	109733	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	274585	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	212841	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	147790	9.473	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.700%
Target Compounds						
					Qvalue	
6) Bromomethane	1.619	94	97	0.032	ppbv #	4
13) Ethanol	1.719	45	228	0.100	ppbv #	38
15) Acetone	1.832	43	2846	0.187	ppbv #	55
17) tert-Butyl alcohol	2.043	59	786	0.039	ppbv	97
19) Isopropyl Alcohol	1.884	45	1332	0.155	ppbv #	1
20) Methylene Chloride	2.059	84	3164	Below Cal		86
27) Carbon Disulfide	2.146	76	977	0.066	ppbv #	1
30) Cyclohexane	3.946	84	1331	0.110	ppbv #	1
34) 2-Butanone	2.560	43	821	0.042	ppbv #	82
39) 1,2-Dichloropropane	3.952	63	71338	7.412	ppbv #	24

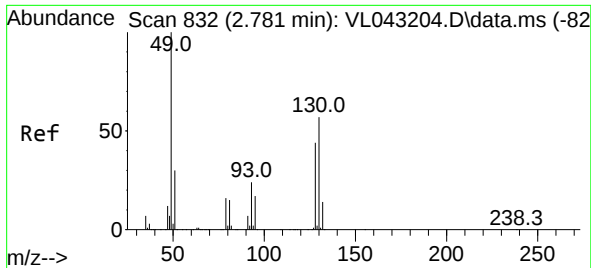
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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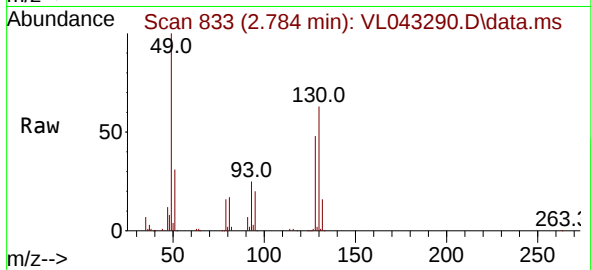
Quant Time: Nov 26 00:10:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL11825AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Nov 19 01:11:25 2025
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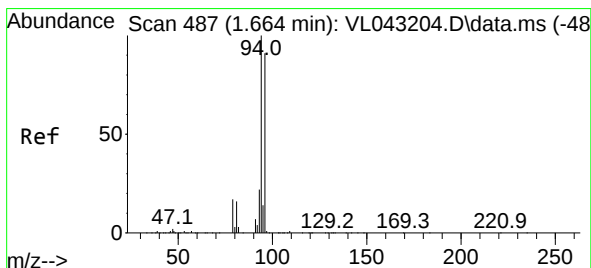
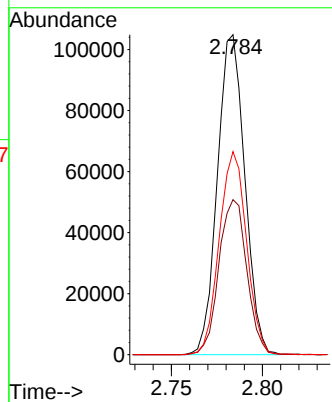
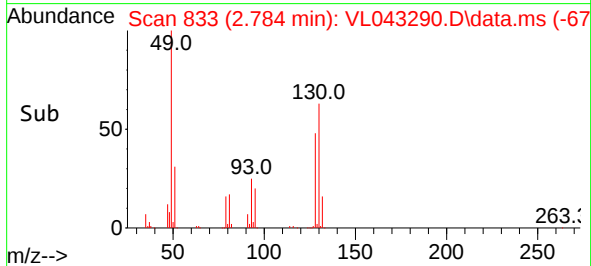


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL043290.D
Acq: 25 Nov 2025 08:21

Instrument :
MSVOA_L
ClientSampleId :

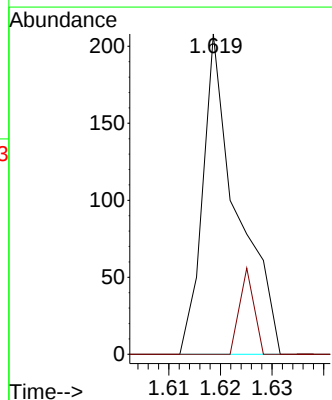
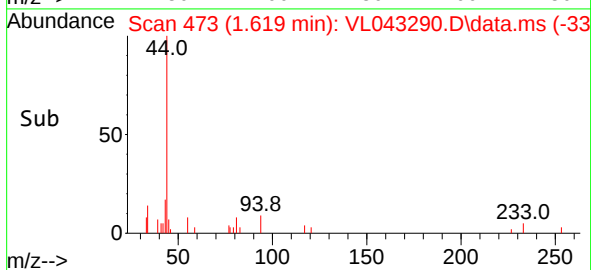
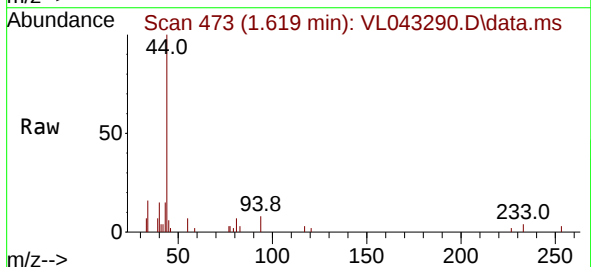


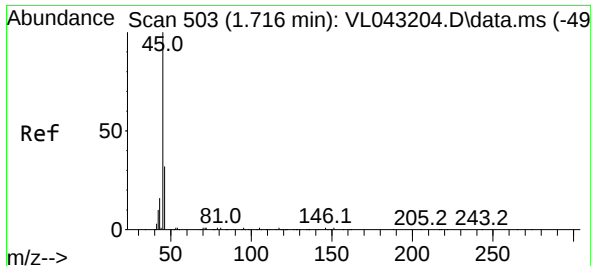
Tgt Ion: 49 Resp: 109733
Ion Ratio Lower Upper
49 100
128 49.3 23.0 69.0
130 63.3 29.9 89.7



#6
Bromomethane
Concen: 0.032 ppbv
RT: 1.619 min Scan# 473
Delta R.T. -0.046 min
Lab File: VL043290.D
Acq: 25 Nov 2025 08:21

Tgt Ion: 94 Resp: 97
Ion Ratio Lower Upper
94 100
96 0.0 72.9 109.3#

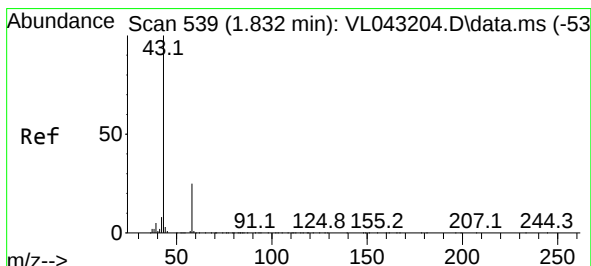
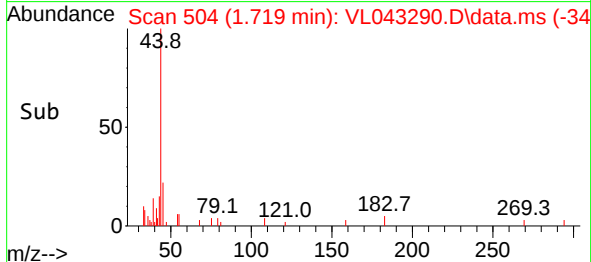
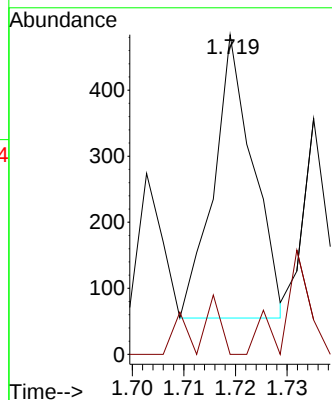
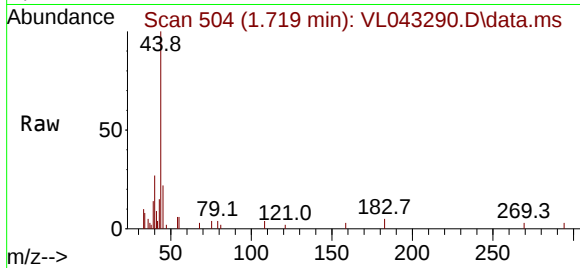




#13
Ethanol
Concen: 0.100 ppbv
RT: 1.719 min Scan# 503
Delta R.T. 0.003 min
Lab File: VL043290.D
Acq: 25 Nov 2025 08:21

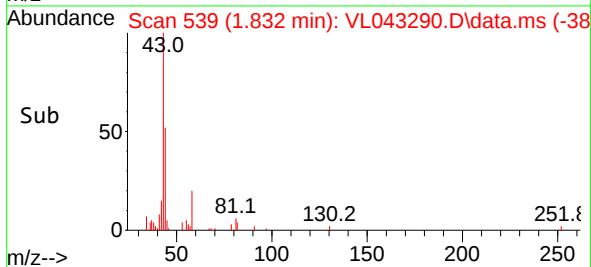
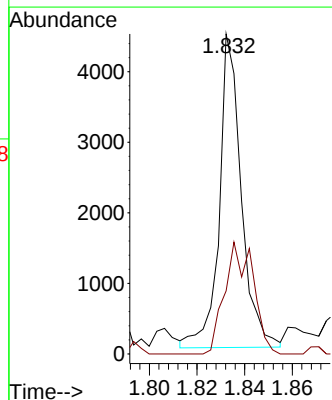
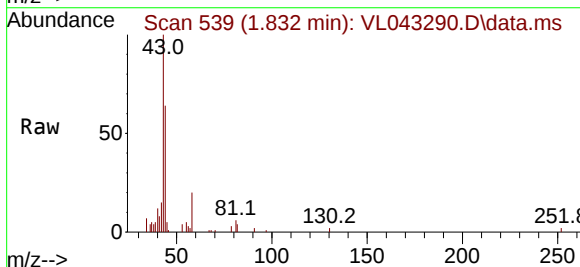
Instrument :
MSVOA_L
ClientSampleId :

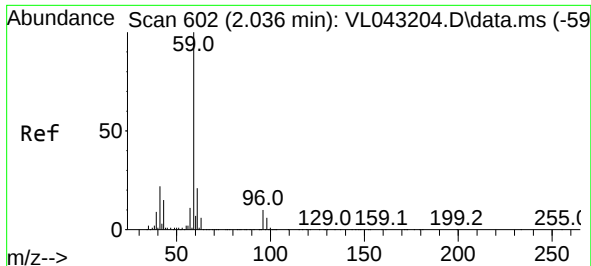
Tgt Ion: 45 Resp: 228
Ion Ratio Lower Upper
45 100
46 0.0 15.0 59.8#



#15
Acetone
Concen: 0.187 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.000 min
Lab File: VL043290.D
Acq: 25 Nov 2025 08:21

Tgt Ion: 43 Resp: 2846
Ion Ratio Lower Upper
43 100
58 48.9 20.7 31.1#

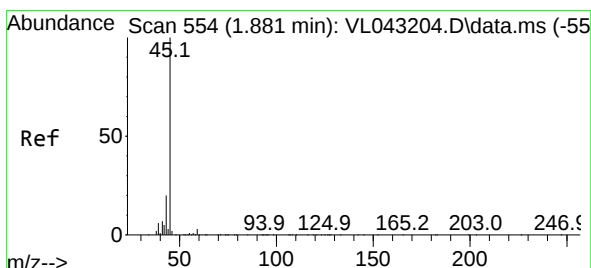
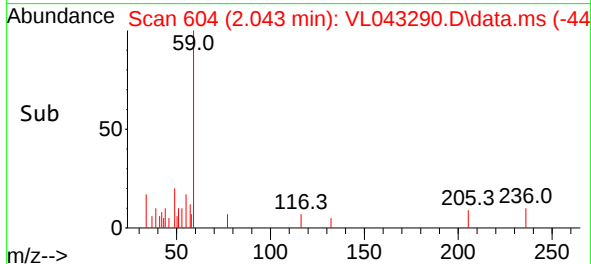
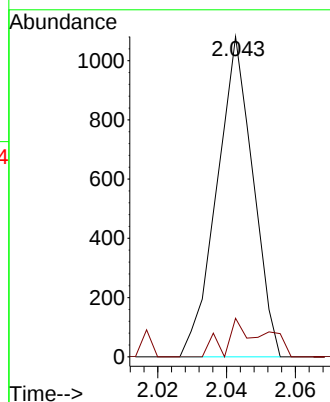
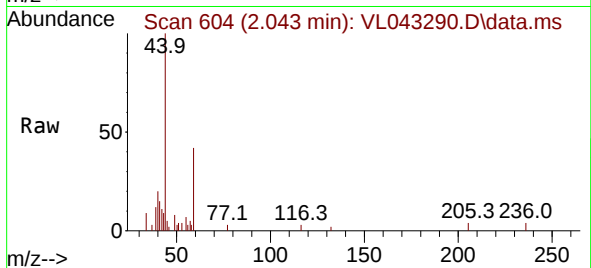




#17
tert-Butyl alcohol
Concen: 0.039 ppbv
RT: 2.043 min Scan# 602
Delta R.T. 0.006 min
Lab File: VL043290.D
Acq: 25 Nov 2025 08:21

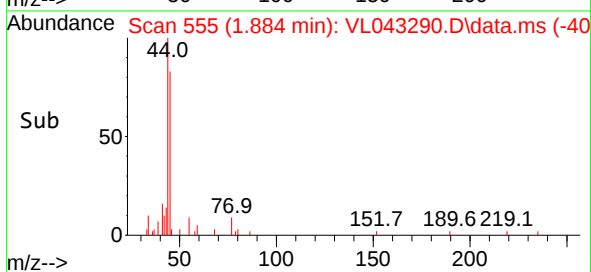
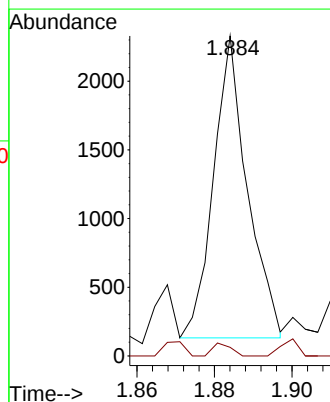
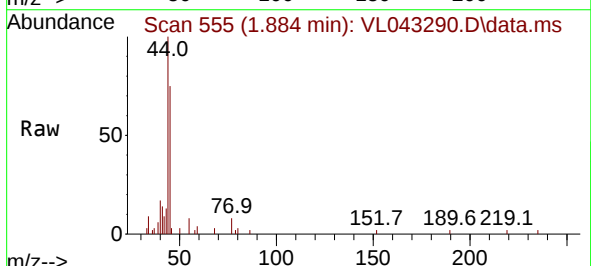
Instrument :
MSVOA_L
ClientSampleId :

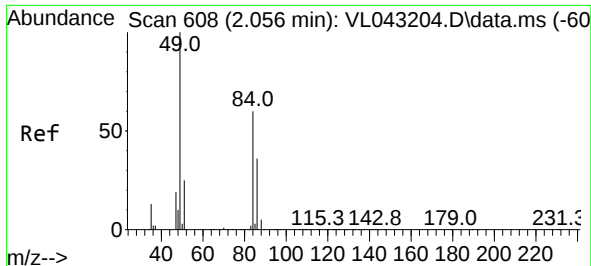
Tgt Ion: 59 Resp: 786
Ion Ratio Lower Upper
59 100
57 12.3 9.0 13.4



#19
Isopropyl Alcohol
Concen: 0.155 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043290.D
Acq: 25 Nov 2025 08:21

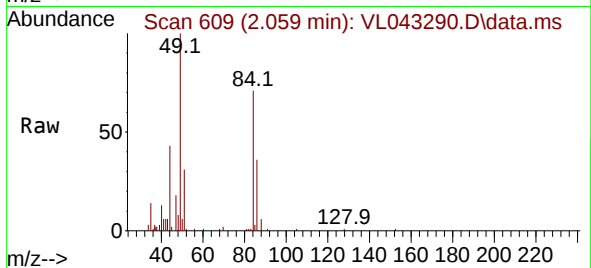
Tgt Ion: 45 Resp: 1332
Ion Ratio Lower Upper
45 100
58 104.4 31.3 46.9#





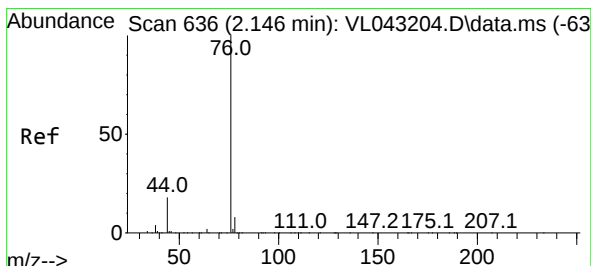
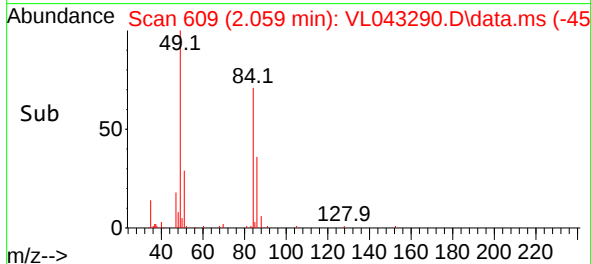
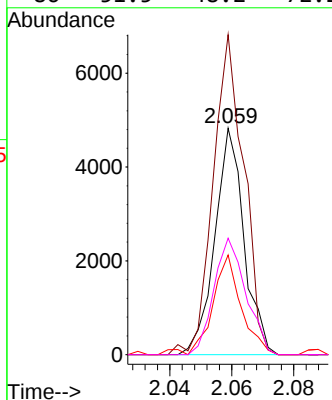
#20
Methylene Chloride
Concen: Below Cal
RT: 2.059 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL043290.D
Acq: 25 Nov 2025 08:21

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 3164

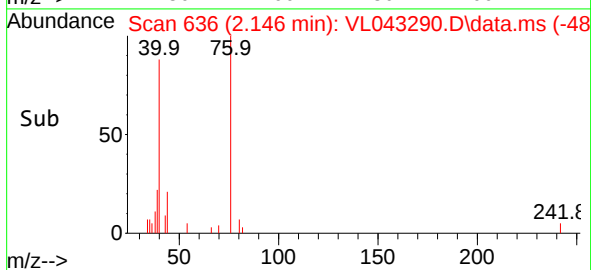
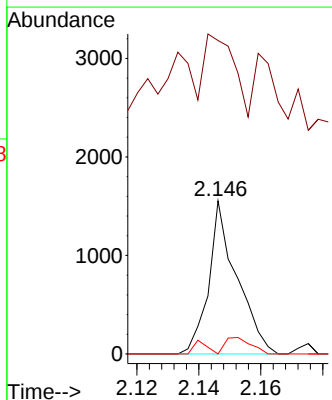
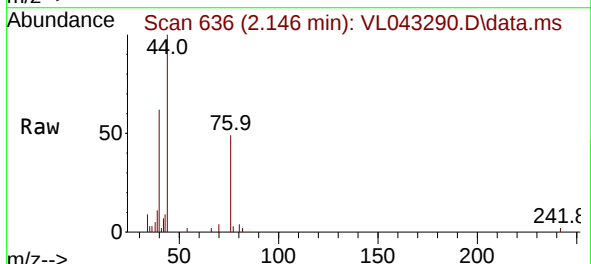
Ion	Ratio	Lower	Upper
84	100		
49	141.4	132.9	199.3
51	44.0	34.8	52.2
86	51.5	48.2	72.2

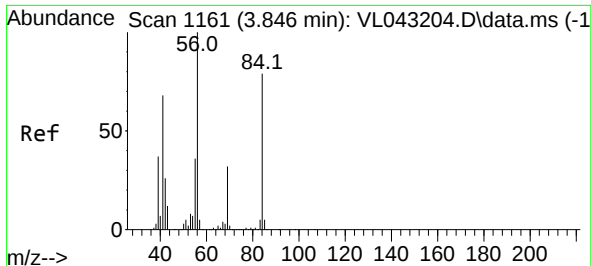


#27
Carbon Disulfide
Concen: 0.066 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.000 min
Lab File: VL043290.D
Acq: 25 Nov 2025 08:21

Tgt Ion: 76 Resp: 977

Ion	Ratio	Lower	Upper
76	100		
44	496.8	16.1	24.1#
78	14.0	9.6	14.4

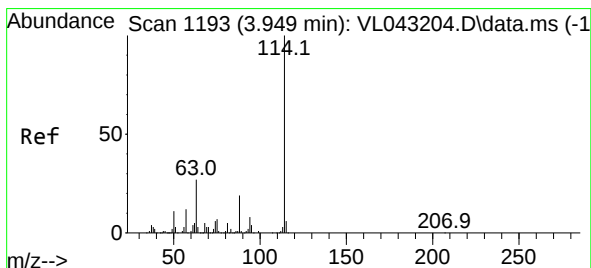
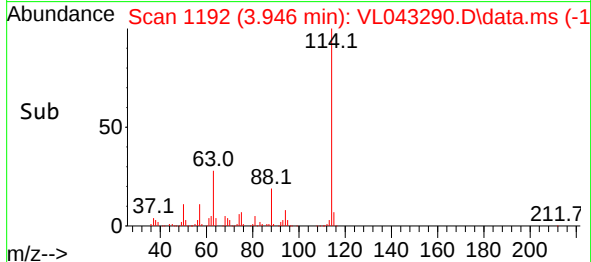
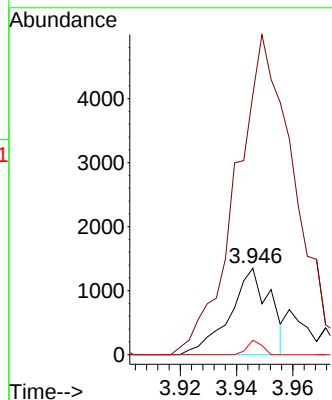
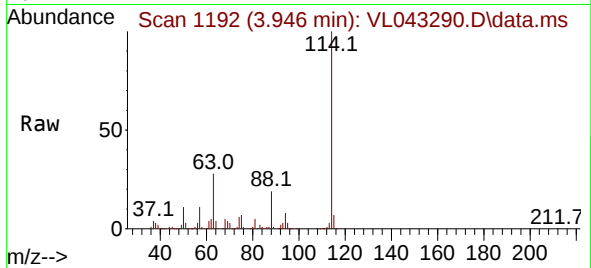




#30
Cyclohexane
Concen: 0.110 ppbv
RT: 3.946 min Scan# 1161
Delta R.T. 0.100 min
Lab File: VL043290.D
Acq: 25 Nov 2025 08:21

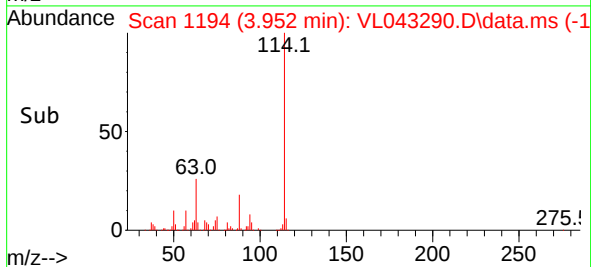
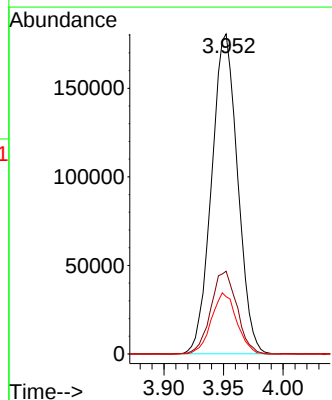
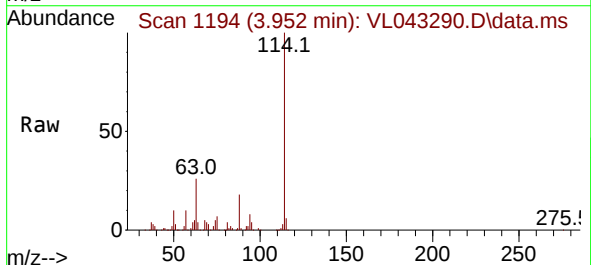
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ClientSampleId :

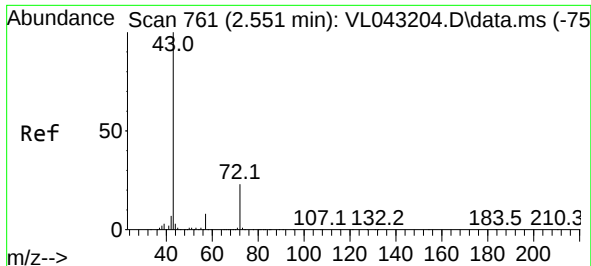
Tgt Ion: 84 Resp: 1331
Ion Ratio Lower Upper
84 100
56 548.2 104.7 157.1#
41 6.2 69.0 103.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.003 min
Lab File: VL043290.D
Acq: 25 Nov 2025 08:21

Tgt Ion: 114 Resp: 274585
Ion Ratio Lower Upper
114 100
63 26.0 21.0 31.6
88 18.6 14.9 22.3

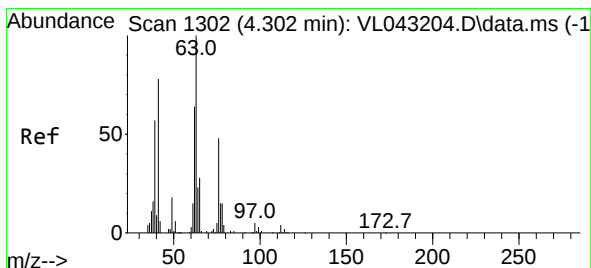
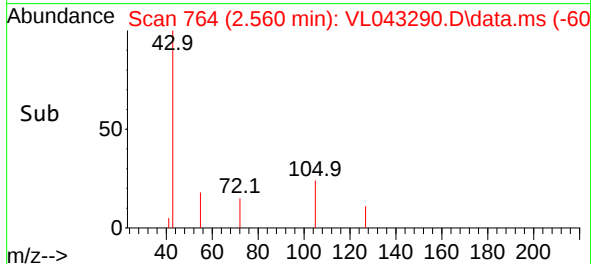
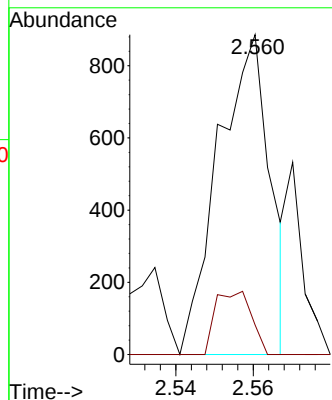
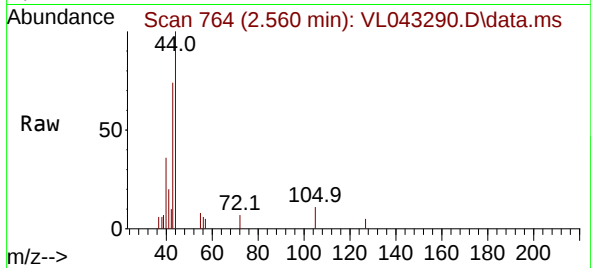




#34
2-Butanone
Concen: 0.042 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.010 min
Lab File: VL043290.D
Acq: 25 Nov 2025 08:21

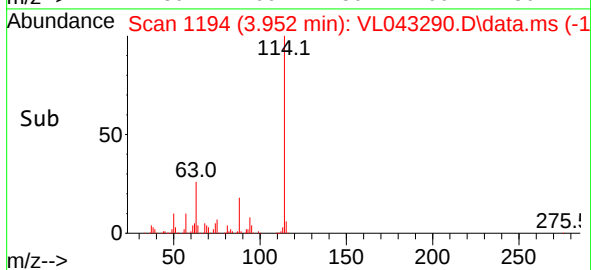
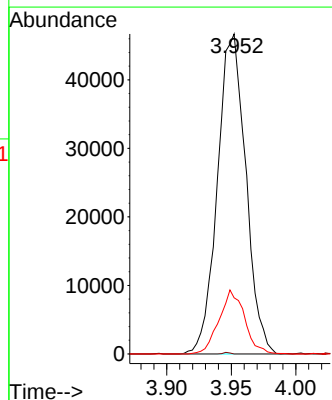
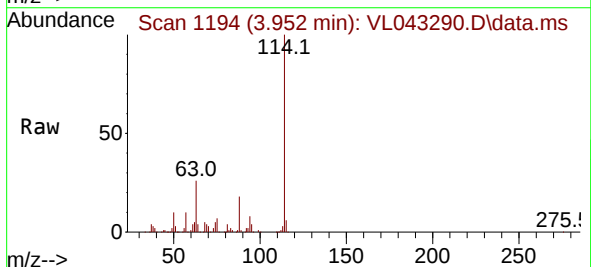
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MSVOA_L
ClientSampleId :

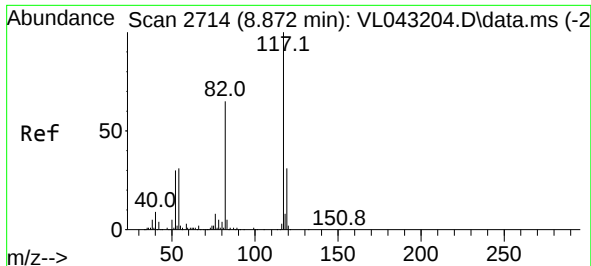
Tgt Ion: 43 Resp: 821
Ion Ratio Lower Upper
43 100
72 13.8 18.1 27.1#



#39
1,2-Dichloropropane
Concen: 7.412 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.350 min
Lab File: VL043290.D
Acq: 25 Nov 2025 08:21

Tgt Ion: 63 Resp: 71338
Ion Ratio Lower Upper
63 100
41 0.0 62.6 93.8#
62 17.6 51.0 76.6#

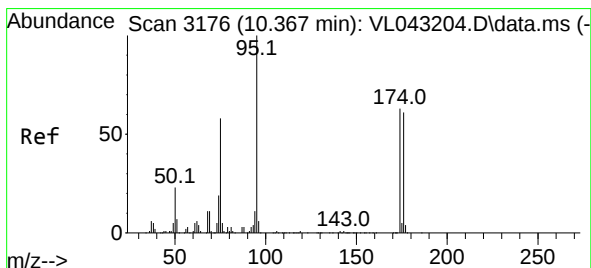
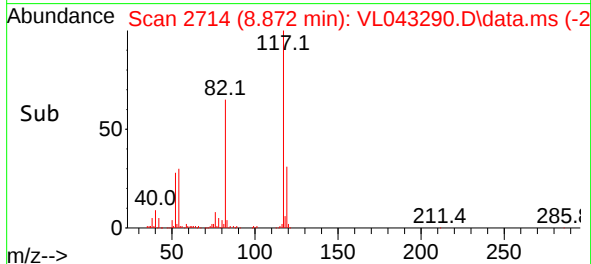
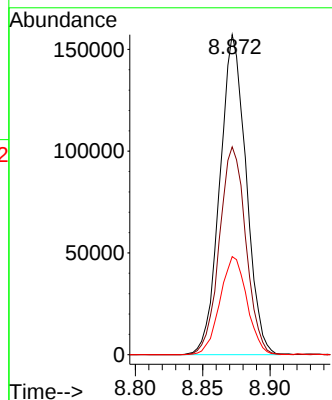
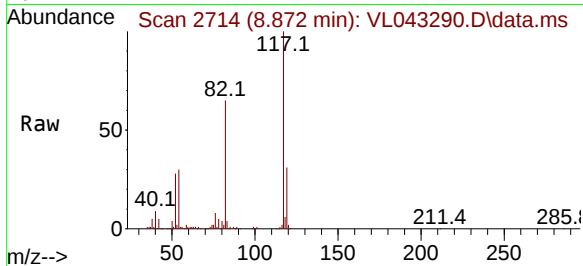




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.872 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL043290.D
Acq: 25 Nov 2025 08:21

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 212841
Ion Ratio Lower Upper
117 100
82 65.7 56.1 84.1
119 31.7 25.0 37.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.473 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.003 min
Lab File: VL043290.D
Acq: 25 Nov 2025 08:21

Tgt Ion: 95 Resp: 147790
Ion Ratio Lower Upper
95 100
174 66.1 50.2 75.2
175 4.9 4.1 6.1

