

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
 Data File : VL043254.D
 Acq On : 20 Nov 2025 07:35
 Operator : SY/MD
 Sample : Q3626-12DL2 600X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 16-SG-1DL2

Quant Time: Nov 21 00:09:23 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)

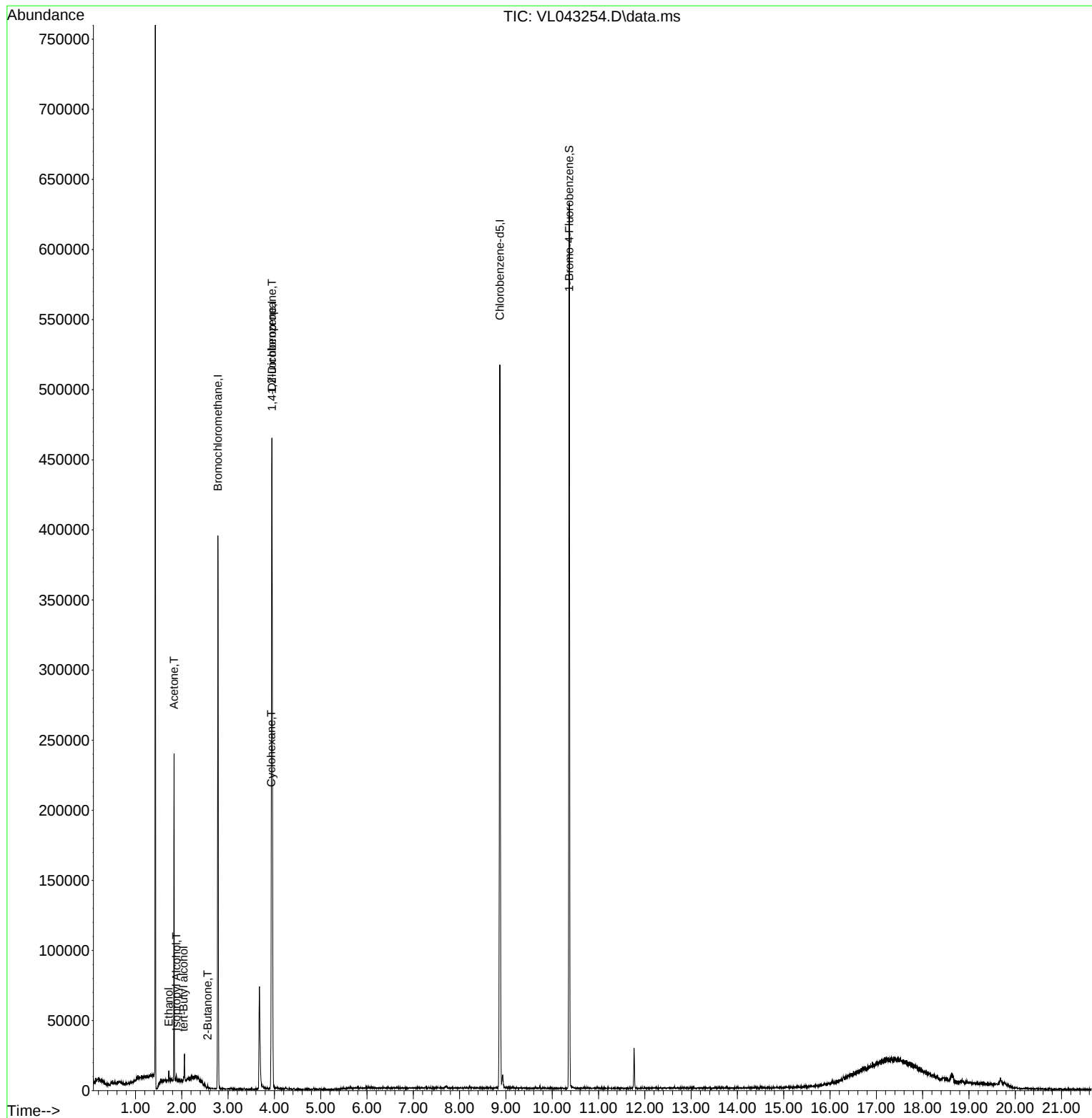
Internal Standards						
1) Bromochloromethane	2.780	49	101416	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	271635	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	204048	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	146628	9.803	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.000%
Target Compounds						
					Qvalue	
13) Ethanol	1.719	45	2715	1.293	ppbv	70
15) Acetone	1.832	43	94950	6.739	ppbv	99
17) tert-Butyl alcohol	2.039	59	761	0.041	ppbv	96
19) Isopropyl Alcohol	1.884	45	1941	0.244	ppbv #	36
20) Methylene Chloride	2.059	84	2805	Below Cal		86
30) Cyclohexane	3.933	84	339	0.030	ppbv #	1
34) 2-Butanone	2.557	43	1108	0.058	ppbv	100
39) 1,2-Dichloropropane	3.946	63	69521	7.302	ppbv #	24

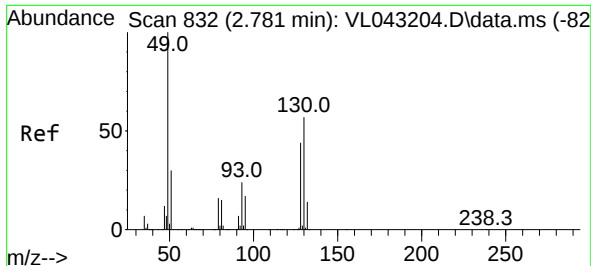
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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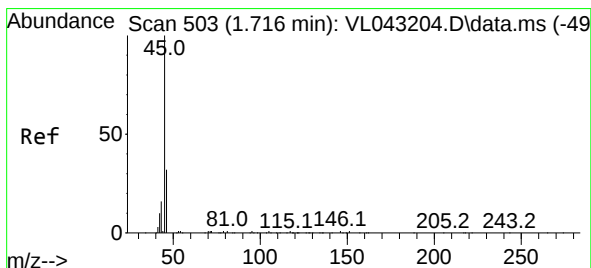
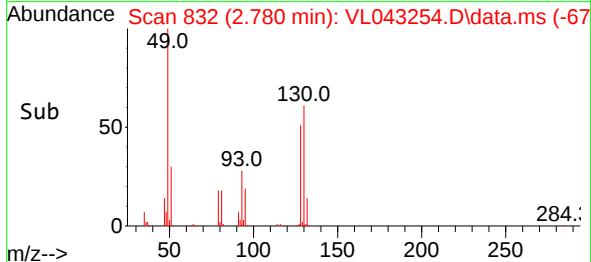
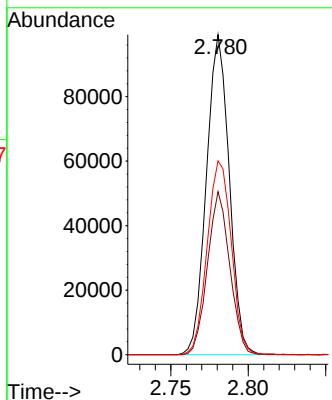
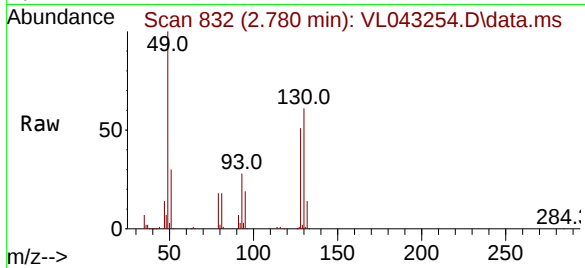




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. -0.001 min
Lab File: VL043254.D
Acq: 20 Nov 2025 07:35

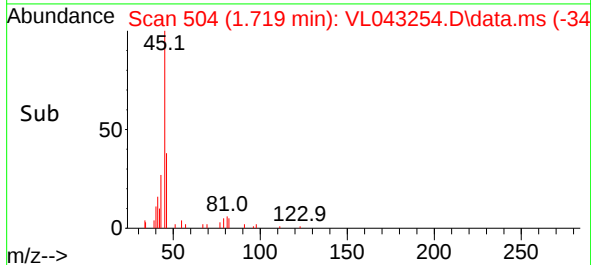
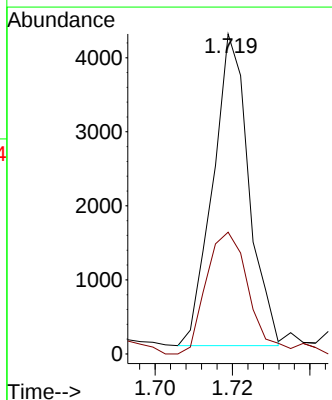
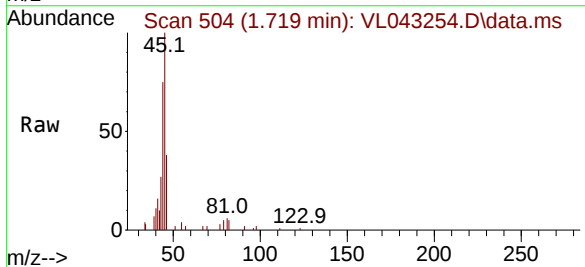
Instrument :
MSVOA_L
ClientSampleId :
16-SG-1DL2

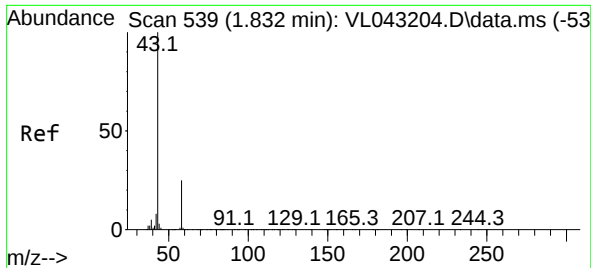
Tgt Ion: 49 Resp: 101416
Ion Ratio Lower Upper
49 100
128 49.7 23.0 69.0
130 63.9 29.9 89.7



#13
Ethanol
Concen: 1.293 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL043254.D
Acq: 20 Nov 2025 07:35

Tgt Ion: 45 Resp: 2715
Ion Ratio Lower Upper
45 100
46 55.6 15.0 59.8





#15

Acetone

Concen: 6.739 ppbv

RT: 1.832 min Scan# 51

Delta R.T. -0.000 min

Lab File: VL043254.D

Acq: 20 Nov 2025 07:35

Instrument :

MSVOA_L

ClientSampleId :

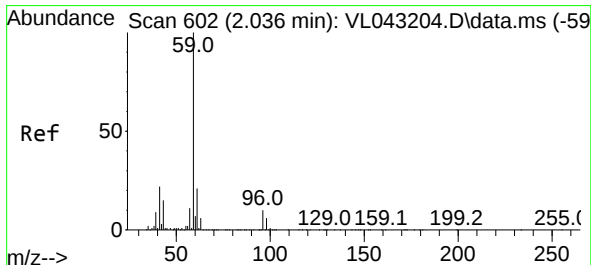
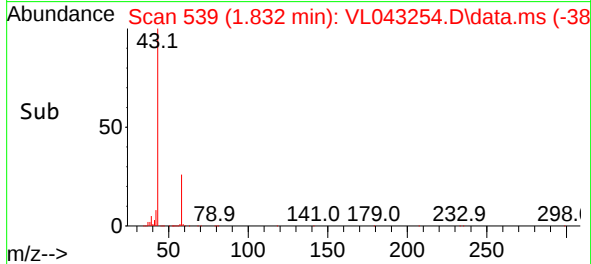
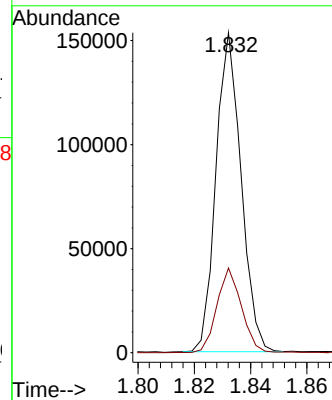
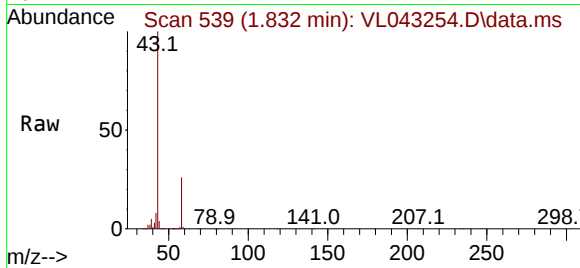
16-SG-1DL2

Tgt Ion: 43 Resp: 94950

Ion Ratio Lower Upper

43 100

58 26.2 20.7 31.1



#17

tert-Butyl alcohol

Concen: 0.041 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL043254.D

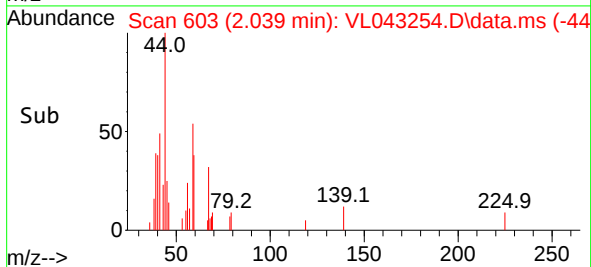
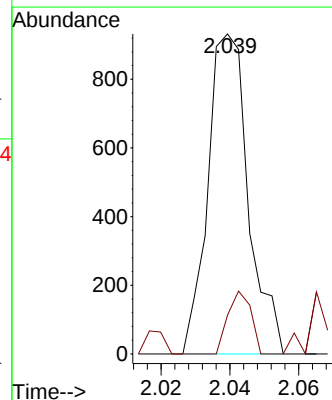
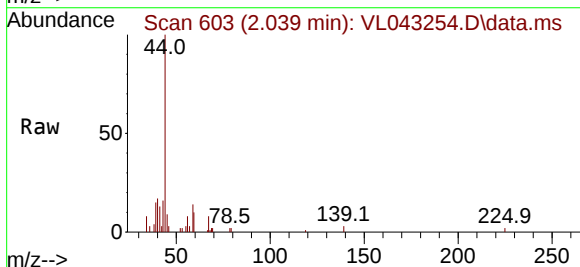
Acq: 20 Nov 2025 07:35

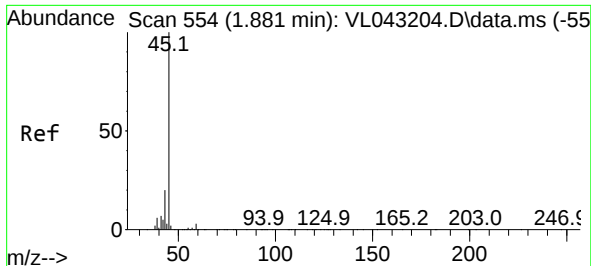
Tgt Ion: 59 Resp: 761

Ion Ratio Lower Upper

59 100

57 12.7 9.0 13.4

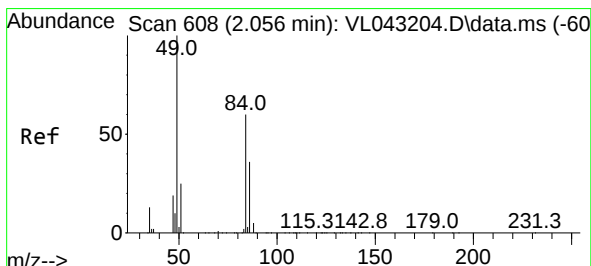
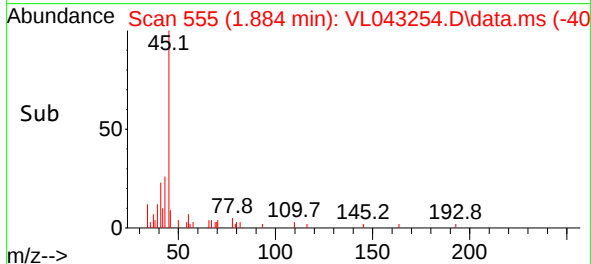
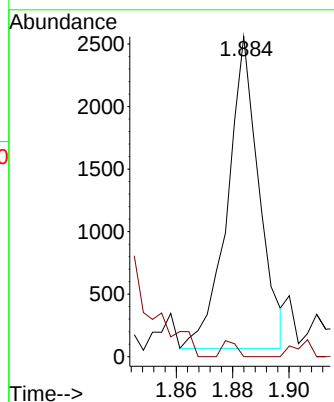
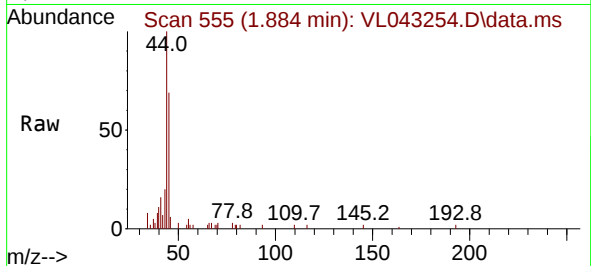




#19
Isopropyl Alcohol
Concen: 0.244 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL043254.D
Acq: 20 Nov 2025 07:35

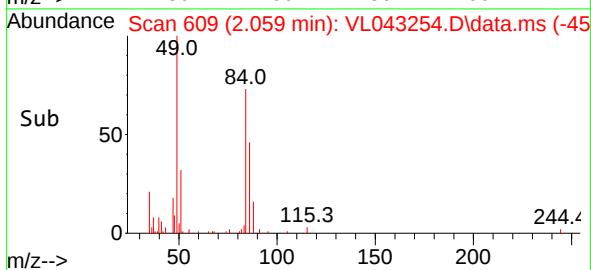
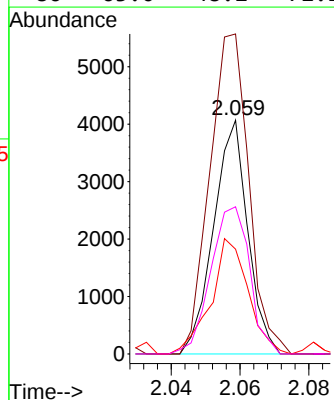
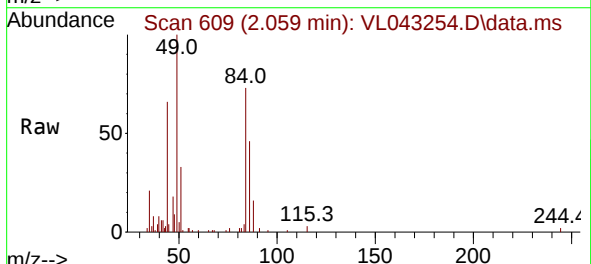
Instrument :
MSVOA_1
ClientSampleId :
16-SG-1DL2

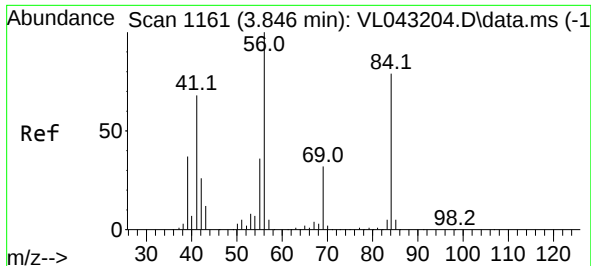
Tgt Ion: 45 Resp: 1941
Ion Ratio Lower Upper
45 100
58 0.0 31.3 46.9#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL043254.D
Acq: 20 Nov 2025 07:35

Tgt Ion: 84 Resp: 2805
Ion Ratio Lower Upper
84 100
49 136.9 132.9 199.3
51 43.2 34.8 52.2
86 63.0 48.2 72.2

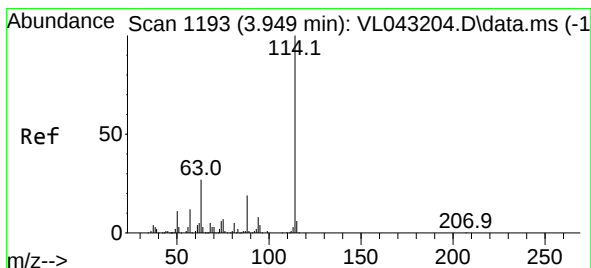
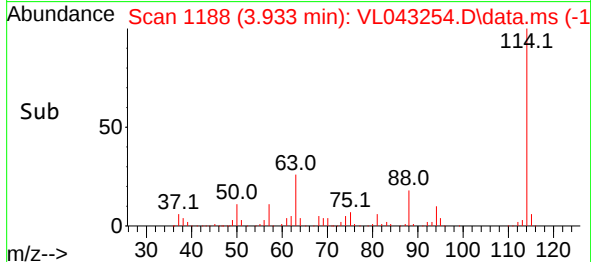
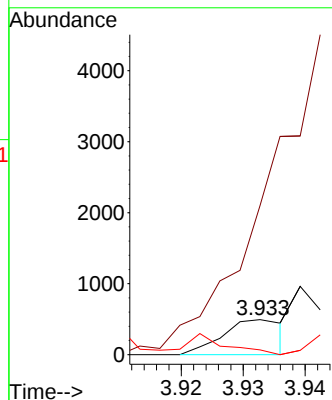
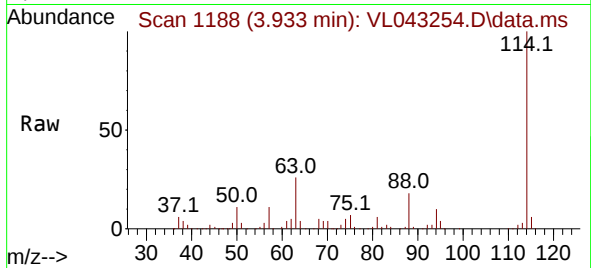




#30
Cyclohexane
Concen: 0.030 ppbv
RT: 3.933 min Scan# 1161
Delta R.T. 0.087 min
Lab File: VL043254.D
Acq: 20 Nov 2025 07:35

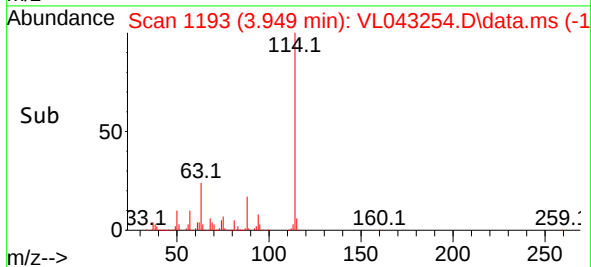
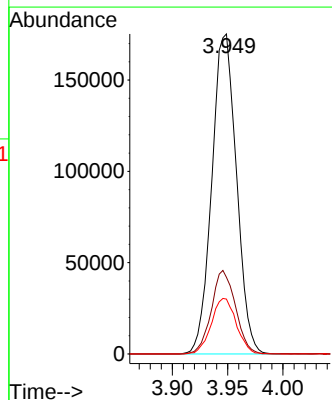
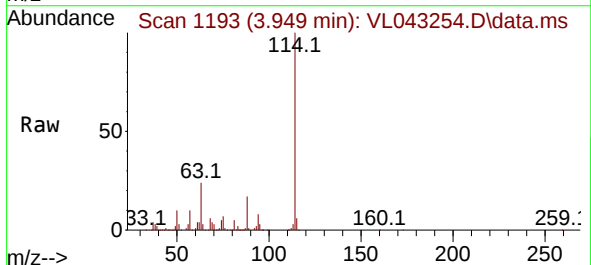
Instrument :
MSVOA_1
ClientSampleId :
16-SG-1DL2

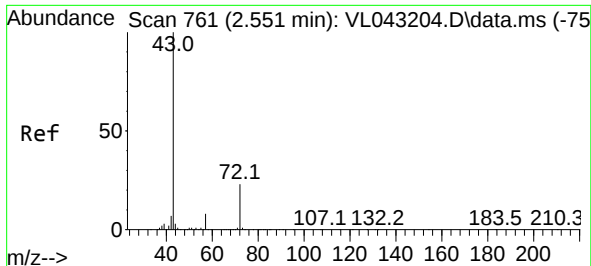
Tgt Ion: 84 Resp: 339
Ion Ratio Lower Upper
84 100
56 0.0 104.7 157.1#
41 0.0 69.0 103.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VL043254.D
Acq: 20 Nov 2025 07:35

Tgt Ion: 114 Resp: 271635
Ion Ratio Lower Upper
114 100
63 25.6 21.0 31.6
88 17.6 14.9 22.3

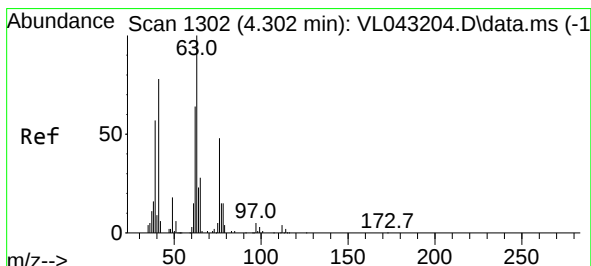
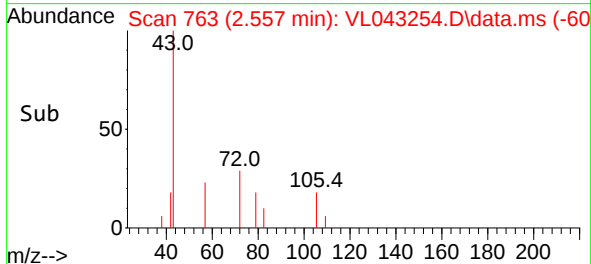
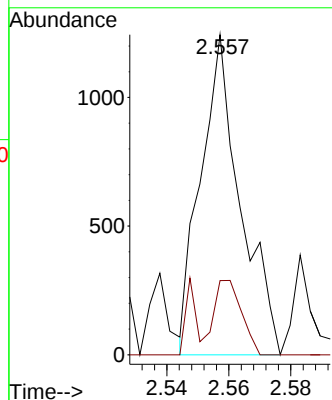
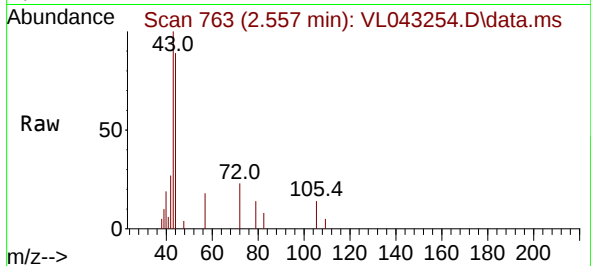




#34
2-Butanone
Concen: 0.058 ppbv
RT: 2.557 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL043254.D
Acq: 20 Nov 2025 07:35

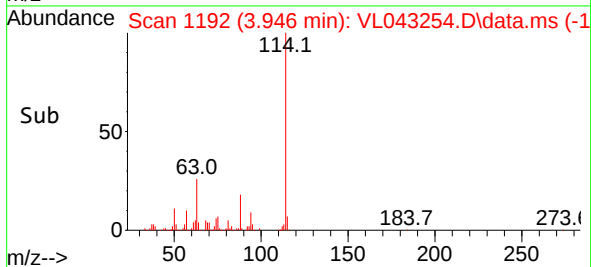
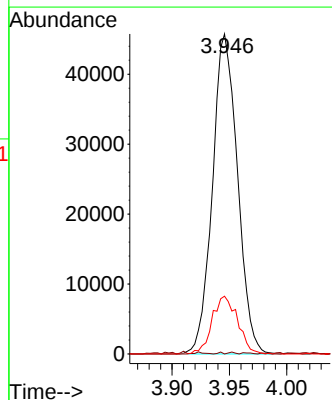
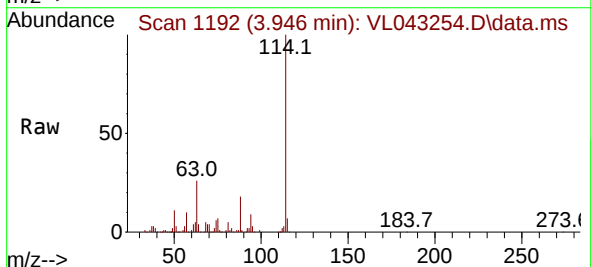
Instrument :
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16-SG-1DL2

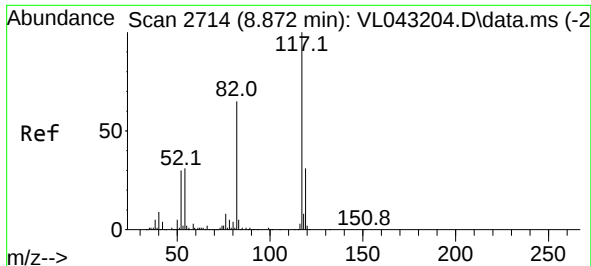
Tgt Ion: 43 Resp: 1108
Ion Ratio Lower Upper
43 100
72 22.4 18.1 27.1



#39
1,2-Dichloropropane
Concen: 7.302 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.356 min
Lab File: VL043254.D
Acq: 20 Nov 2025 07:35

Tgt Ion: 63 Resp: 69521
Ion Ratio Lower Upper
63 100
41 0.0 62.6 93.8#
62 18.1 51.0 76.6#

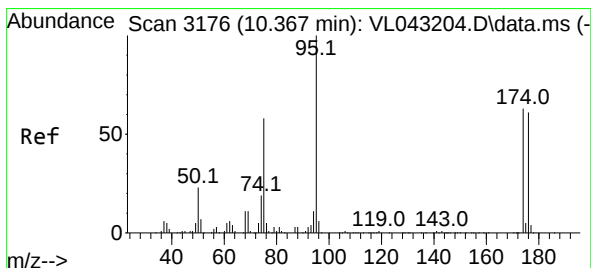
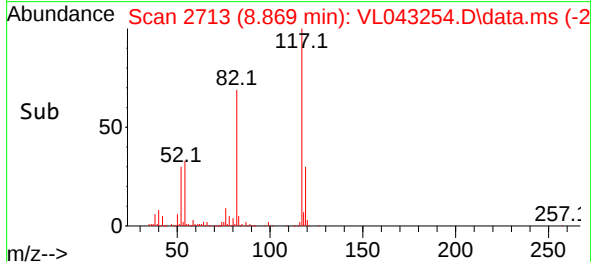
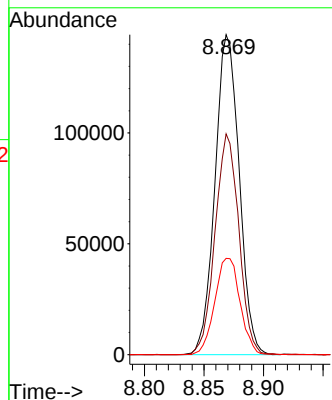
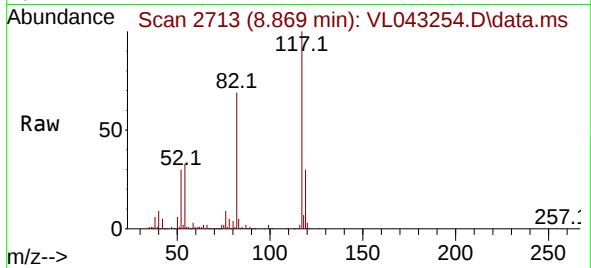




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21
Delta R.T. -0.004 min
Lab File: VL043254.D
Acq: 20 Nov 2025 07:35

Instrument :
MSVOA_1
ClientSampleId :
16-SG-1DL2

Tgt Ion:117 Resp: 204048
Ion Ratio Lower Upper
117 100
82 67.7 56.1 84.1
119 31.6 25.0 37.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.803 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.000 min
Lab File: VL043254.D
Acq: 20 Nov 2025 07:35

Tgt Ion: 95 Resp: 146628
Ion Ratio Lower Upper
95 100
174 65.9 50.2 75.2
175 4.8 4.1 6.1

