

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092425\
 Data File : VL043005.D
 Acq On : 24 Sep 2025 12:03
 Operator : SY/MD
 Sample : Q3154-01DL 80X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Sep 25 01:54:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL092225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 23 02:39:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	148018	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	442740	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.888	117	392695	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	291628	9.949	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%

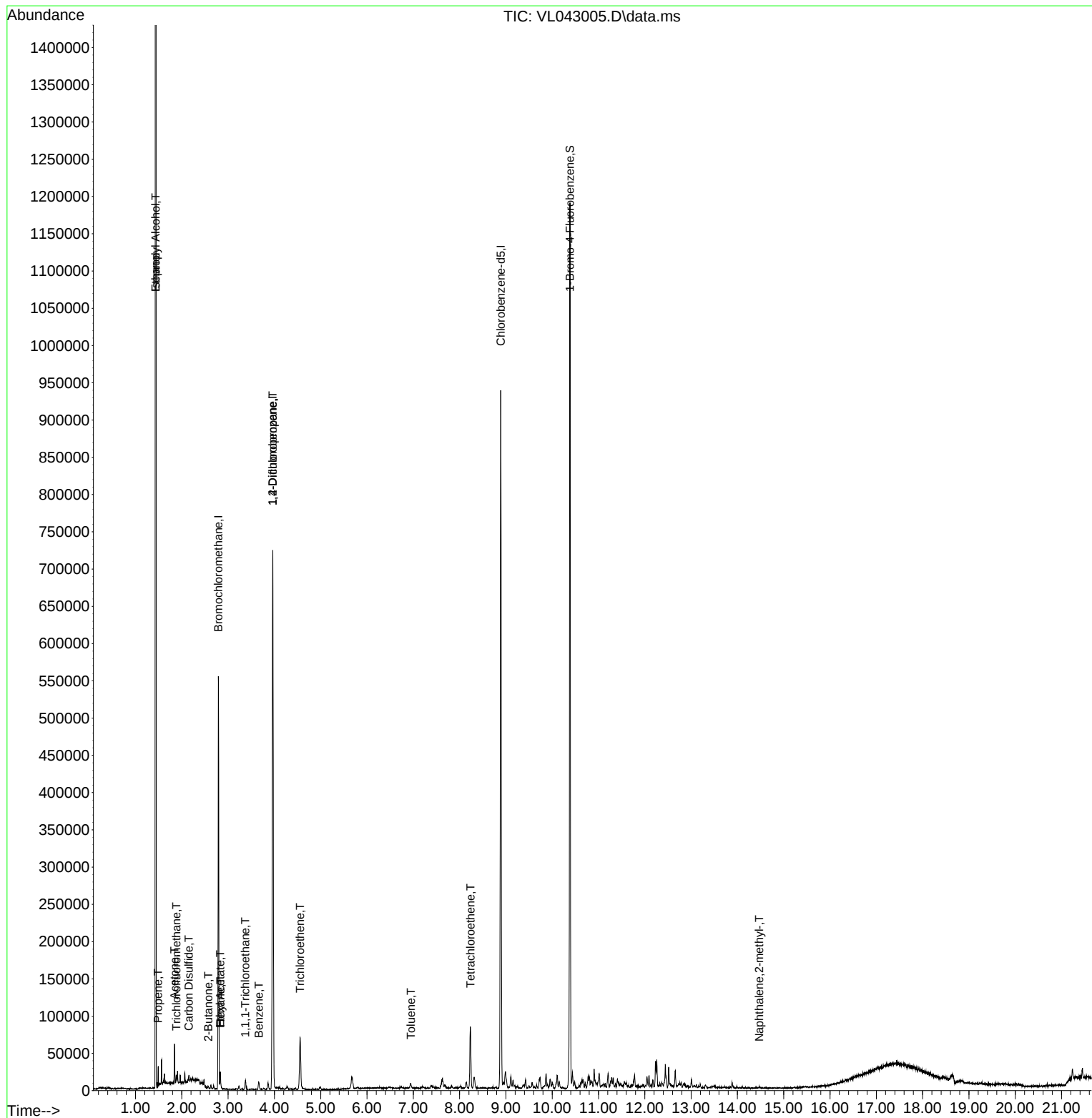
Target Compounds						Qvalue
9) Propene	1.489	41	2612	0.242	ppbv #	71
11) Trichlorofluoromethane	1.881	101	3110	0.162	ppbv	90
13) Ethanol	1.434	45	145997	139.421	ppbv	91
15) Acetone	1.839	43	24853	1.289	ppbv	96
19) Isopropyl Alcohol	1.434	45	145997	12.597	ppbv #	37
20) Methylene Chloride	2.069	84	2386	Below Cal	#	60
25) Ethyl Acetate	2.829	43	3644	0.075	ppbv #	77
26) Hexane	2.832	57	4527	0.204	ppbv #	39
27) Carbon Disulfide	2.153	76	4280	0.215	ppbv #	1
32) 1,1,1-Trichloroethane	3.370	97	2478	0.079	ppbv #	22
34) 2-Butanone	2.570	43	2464	0.079	ppbv #	89
36) Benzene	3.664	78	6153	0.148	ppbv	97
38) Trichloroethene	4.554	130	20680	1.001	ppbv	88
39) 1,2-Dichloropropane	3.965	63	104205	6.866	ppbv #	23
52) Tetrachloroethene	8.238	164	5782	0.359	ppbv	88
53) Toluene	6.949	91	1518	0.031	ppbv #	1
80) Naphthalene,2-methyl-	14.471	142	1098	0.071	ppbv #	86

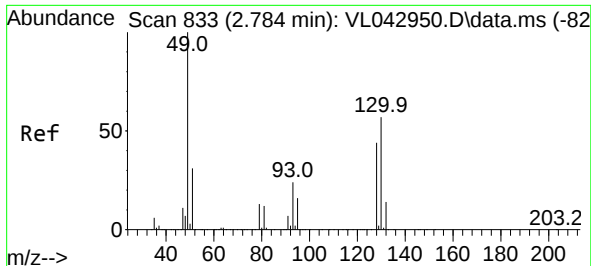
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

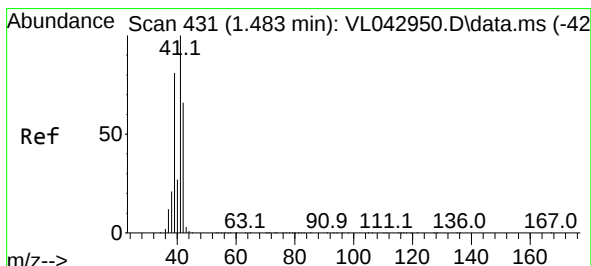
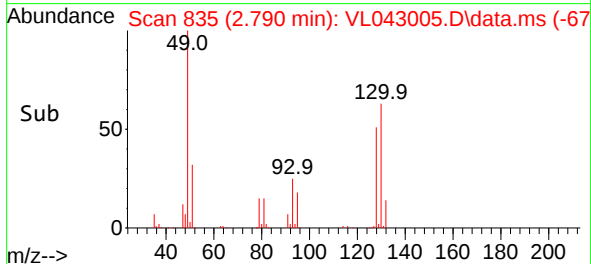
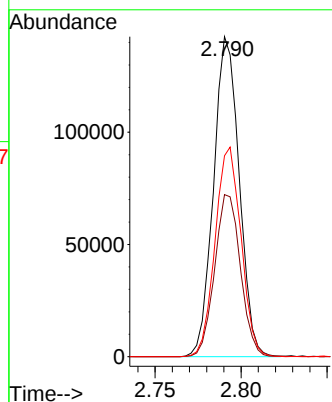
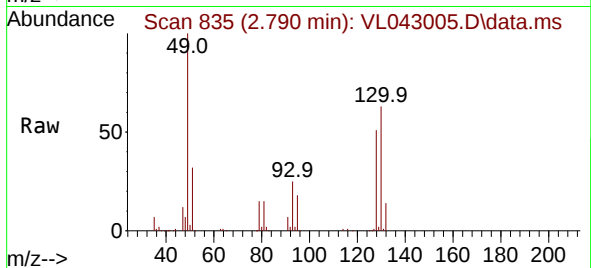




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL043005.D
Acq: 24 Sep 2025 12:03

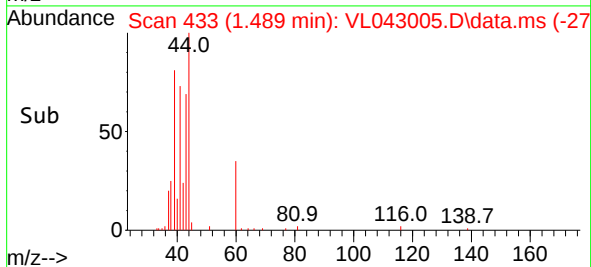
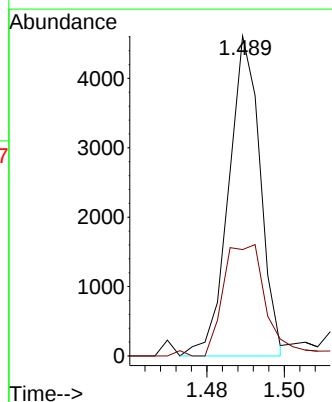
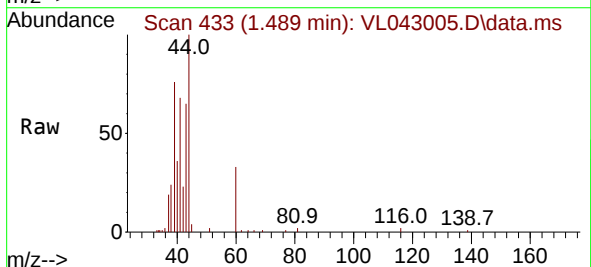
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

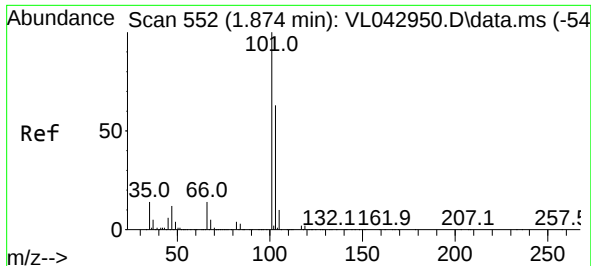
Tgt Ion: 49 Resp: 148018
Ion Ratio Lower Upper
49 100
128 50.9 22.9 68.8
130 66.0 29.1 87.3



#9
Propene
Concen: 0.242 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL043005.D
Acq: 24 Sep 2025 12:03

Tgt Ion: 41 Resp: 2612
Ion Ratio Lower Upper
41 100
42 47.6 57.4 86.2#

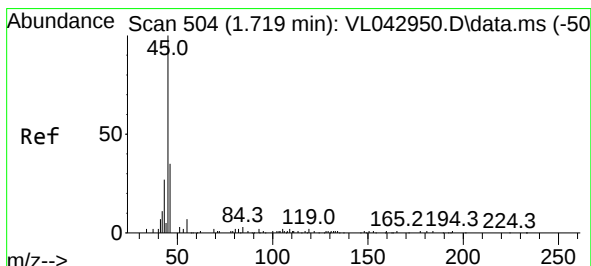
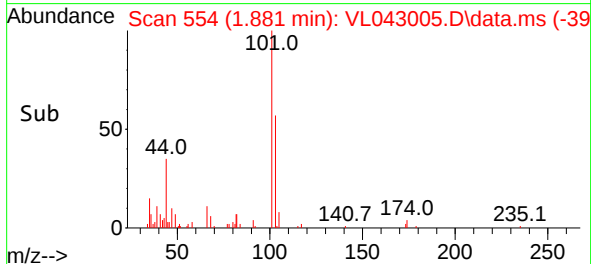
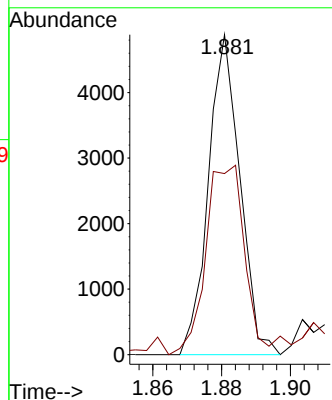
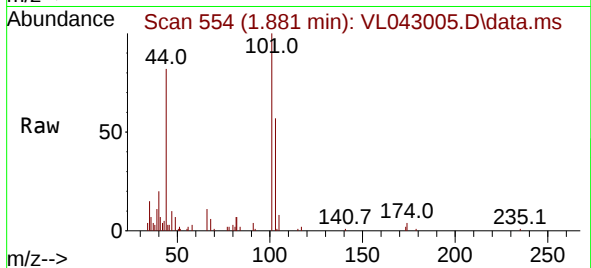




#11
 Trichlorofluoromethane
 Concen: 0.162 ppbv
 RT: 1.881 min Scan# 511
 Delta R.T. 0.006 min
 Lab File: VL043005.D
 Acq: 24 Sep 2025 12:03

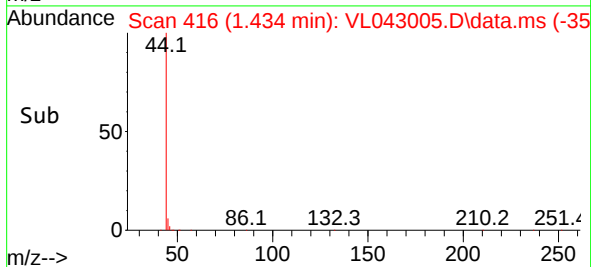
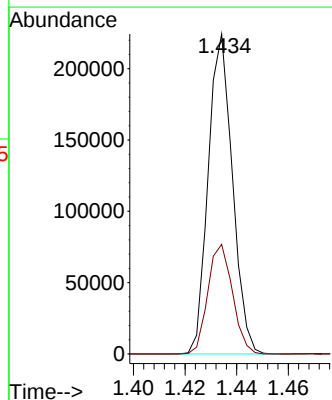
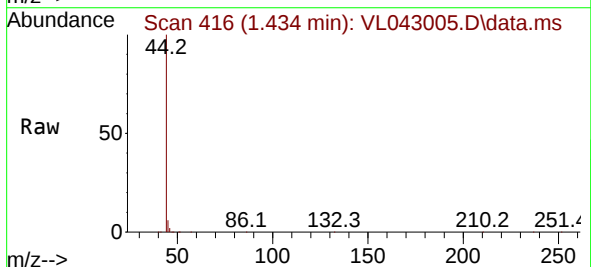
Instrument :
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 ClientSampleId :
 SV1DL

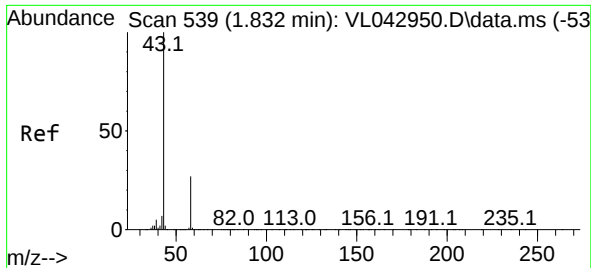
Tgt Ion:101 Resp: 3110
 Ion Ratio Lower Upper
 101 100
 103 54.6 50.1 75.1



#13
 Ethanol
 Concen: 139.421 ppbv
 RT: 1.434 min Scan# 416
 Delta R.T. -0.285 min
 Lab File: VL043005.D
 Acq: 24 Sep 2025 12:03

Tgt Ion: 45 Resp: 145997
 Ion Ratio Lower Upper
 45 100
 46 34.8 16.2 64.6





#15

Acetone

Concen: 1.289 ppbv

RT: 1.839 min Scan# 54

Delta R.T. 0.006 min

Lab File: VL043005.D

Acq: 24 Sep 2025 12:03

Instrument :

MSVOA_L

ClientSampleId :

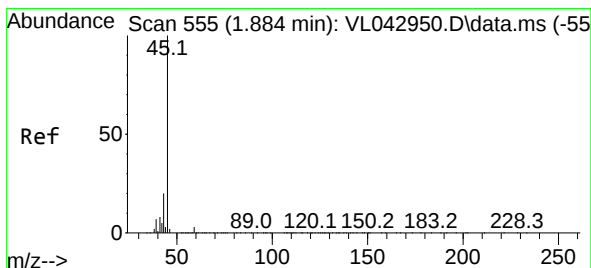
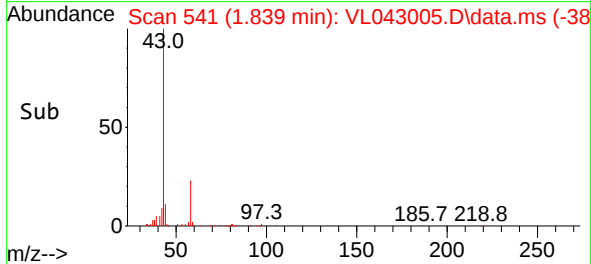
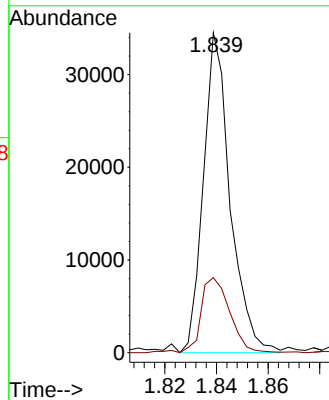
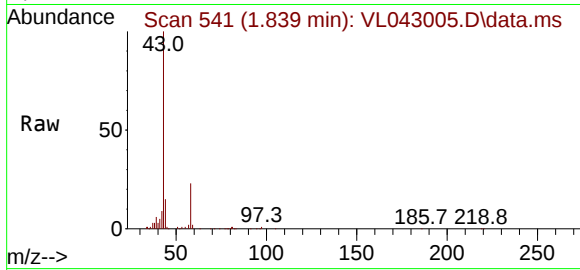
SV1DL

Tgt Ion: 43 Resp: 24853

Ion Ratio Lower Upper

43 100

58 25.8 22.3 33.5



#19

Isopropyl Alcohol

Concen: 12.597 ppbv

RT: 1.434 min Scan# 416

Delta R.T. -0.450 min

Lab File: VL043005.D

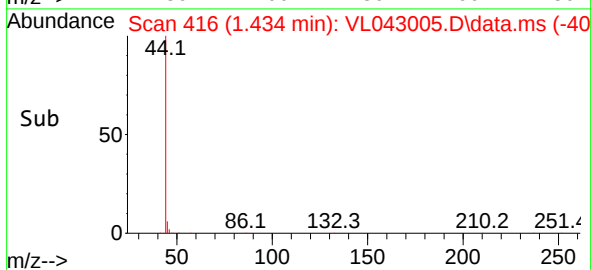
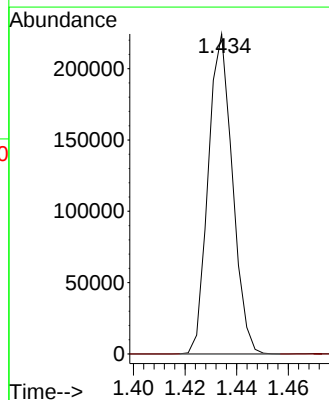
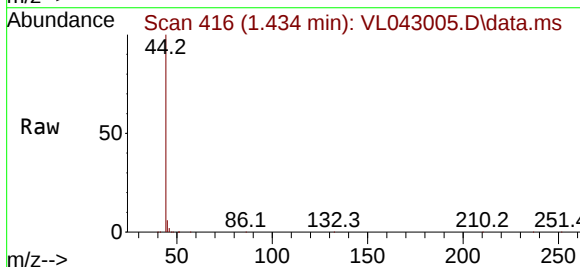
Acq: 24 Sep 2025 12:03

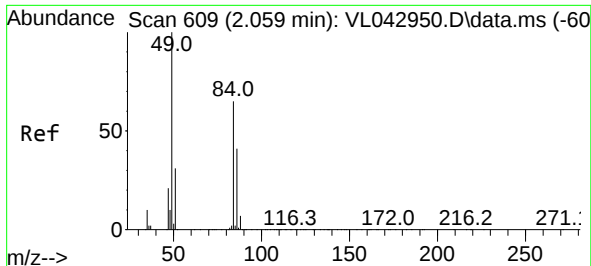
Tgt Ion: 45 Resp: 145997

Ion Ratio Lower Upper

45 100

58 0.4 31.0 46.6#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.069 min Scan# 612

Delta R.T. 0.010 min

Lab File: VL043005.D

Acq: 24 Sep 2025 12:03

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion: 84 Resp: 2386

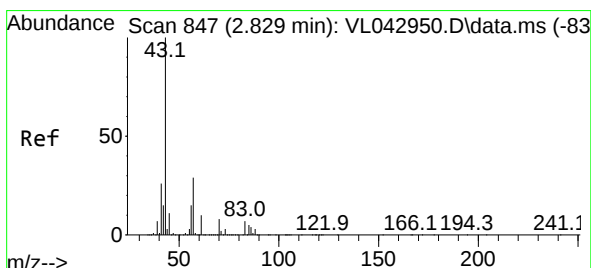
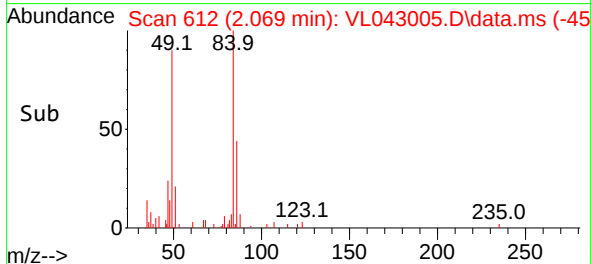
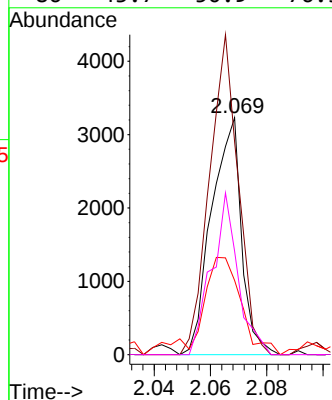
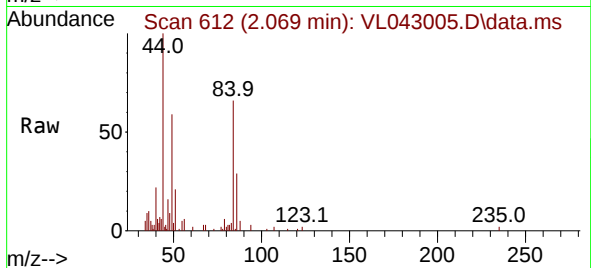
Ion Ratio Lower Upper

84 100

49 89.9 124.1 186.1#

51 31.4 39.8 59.8#

86 43.7 50.9 76.3#



#25

Ethyl Acetate

Concen: 0.075 ppbv

RT: 2.829 min Scan# 847

Delta R.T. 0.000 min

Lab File: VL043005.D

Acq: 24 Sep 2025 12:03

Tgt Ion: 43 Resp: 3644

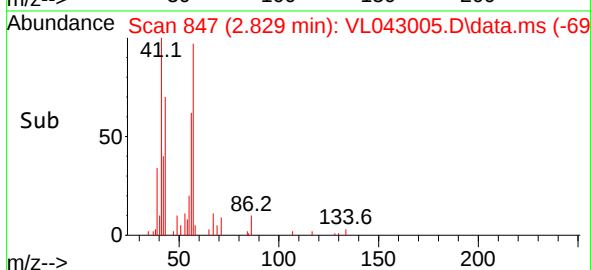
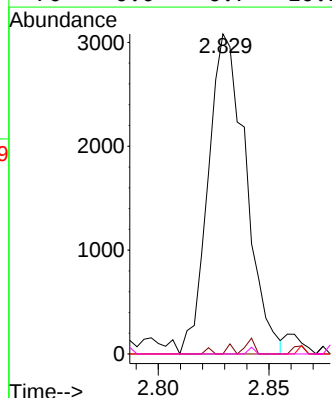
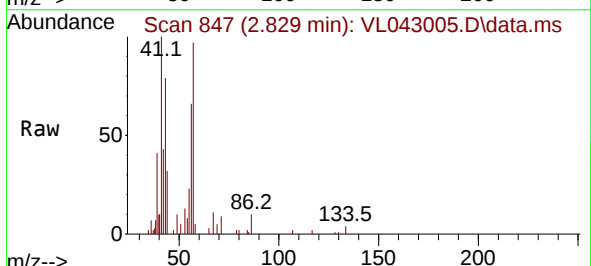
Ion Ratio Lower Upper

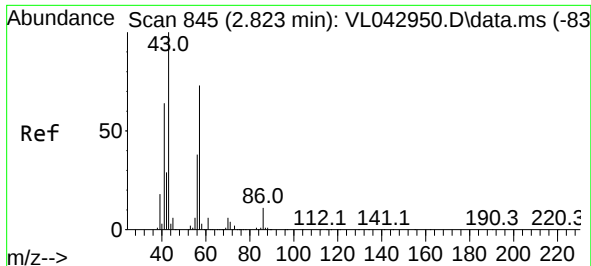
43 100

45 2.0 7.7 11.5#

61 0.0 7.1 10.7#

70 0.0 6.7 10.1#

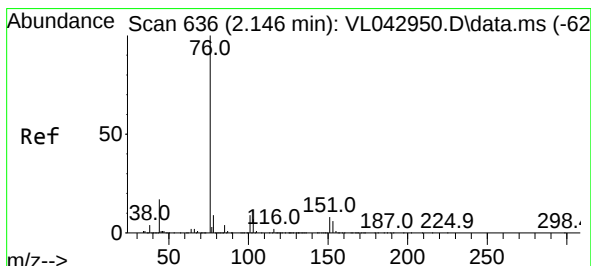
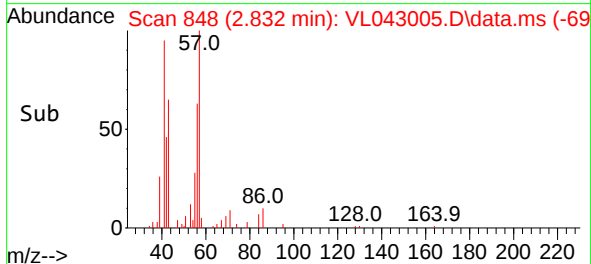
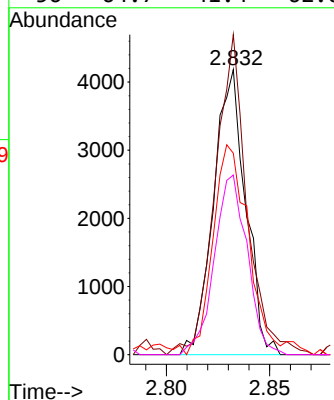
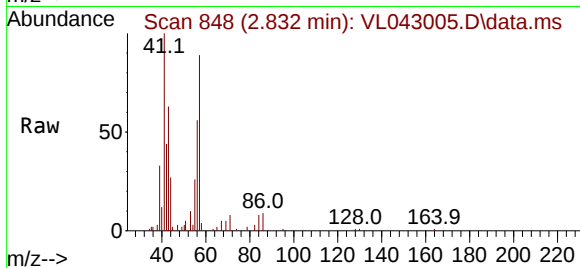




#26
Hexane
Concen: 0.204 ppbv
RT: 2.832 min Scan# 84
Delta R.T. 0.010 min
Lab File: VL043005.D
Acq: 24 Sep 2025 12:03

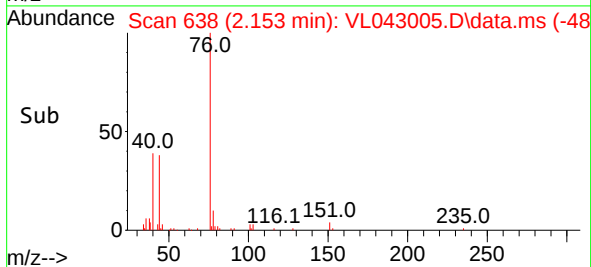
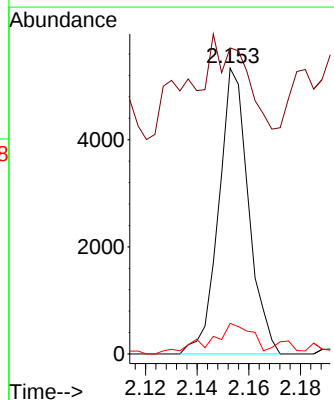
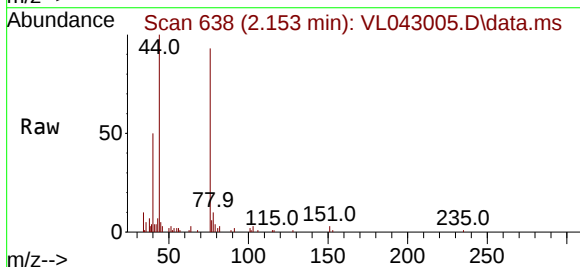
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SV1DL

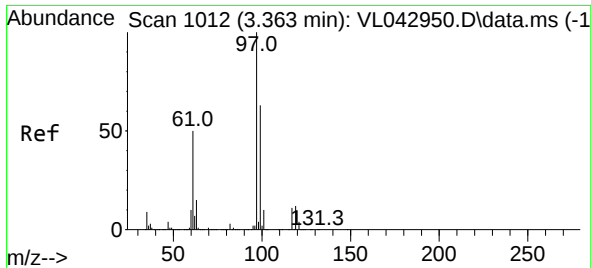
Tgt Ion: 57 Resp: 4527
Ion Ratio Lower Upper
57 100
41 113.3 71.7 107.5#
43 88.2 180.8 271.2#
56 64.7 41.4 62.0#



#27
Carbon Disulfide
Concen: 0.215 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.006 min
Lab File: VL043005.D
Acq: 24 Sep 2025 12:03

Tgt Ion: 76 Resp: 4280
Ion Ratio Lower Upper
76 100
44 216.9 15.6 23.4#
78 20.0 8.9 13.3#

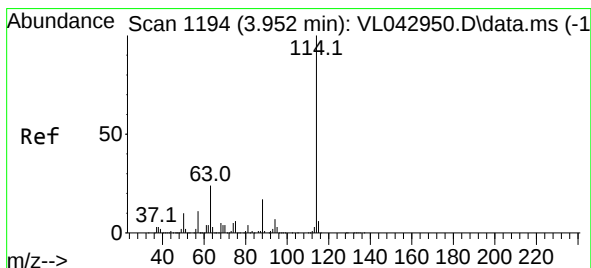
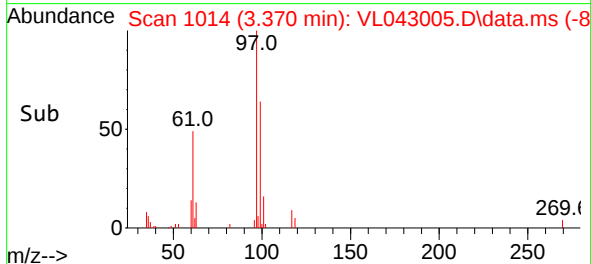
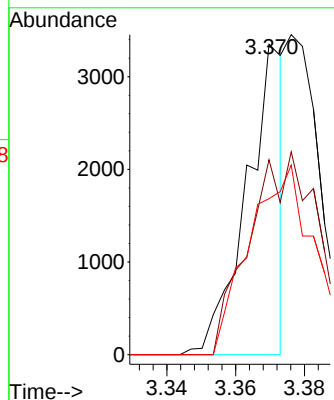
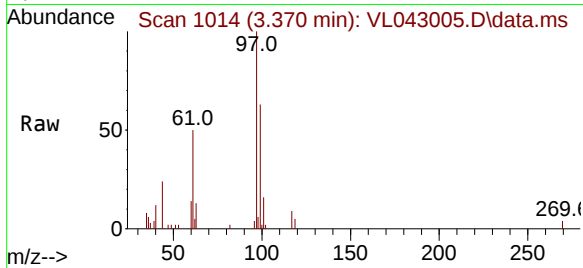




#32
 1,1,1-Trichloroethane
 Concen: 0.079 ppbv
 RT: 3.370 min Scan# 1198
 Delta R.T. 0.006 min
 Lab File: VL043005.D
 Acq: 24 Sep 2025 12:03

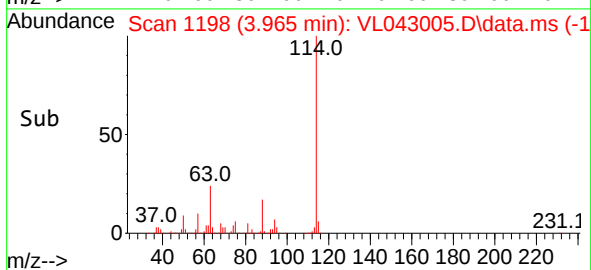
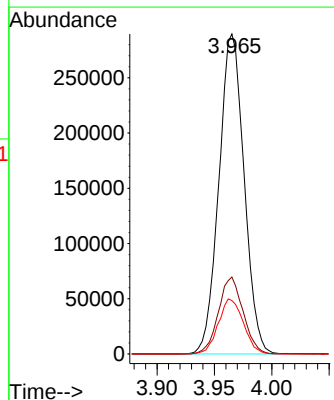
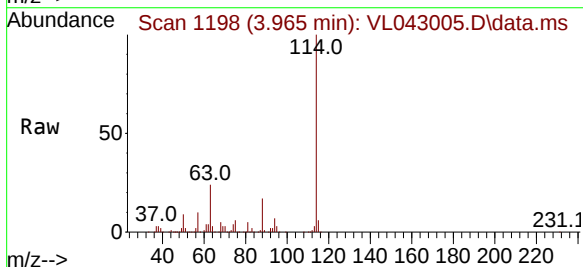
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 ClientSampleId :
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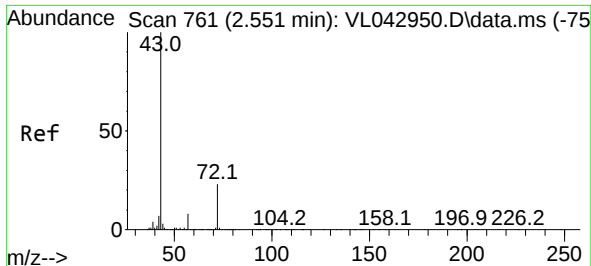
Tgt Ion: 97 Resp: 2478
 Ion Ratio Lower Upper
 97 100
 99 0.0 51.1 76.7#
 61 0.0 39.8 59.6#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. 0.013 min
 Lab File: VL043005.D
 Acq: 24 Sep 2025 12:03

Tgt Ion: 114 Resp: 442740
 Ion Ratio Lower Upper
 114 100
 63 23.6 19.4 29.2
 88 17.1 14.2 21.2

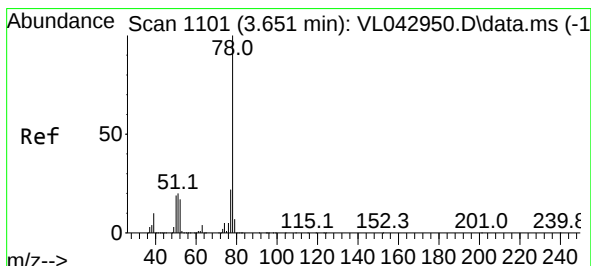
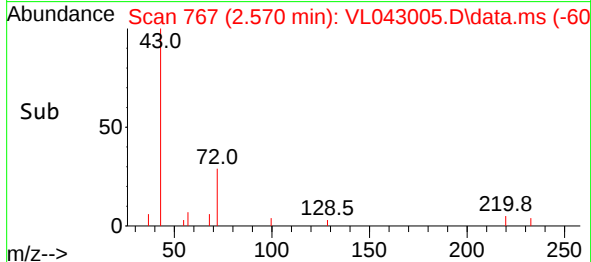
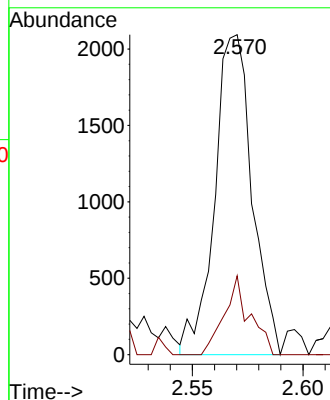
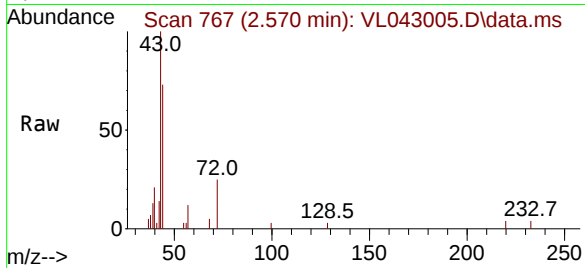




#34
2-Butanone
Concen: 0.079 ppbv
RT: 2.570 min Scan# 71
Delta R.T. 0.019 min
Lab File: VL043005.D
Acq: 24 Sep 2025 12:03

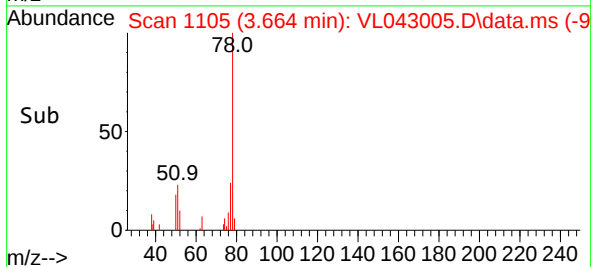
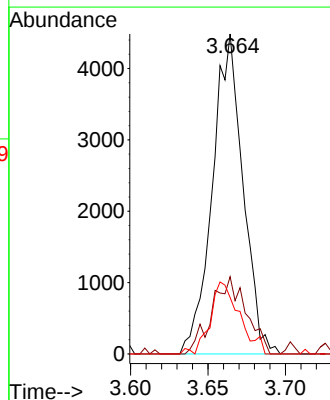
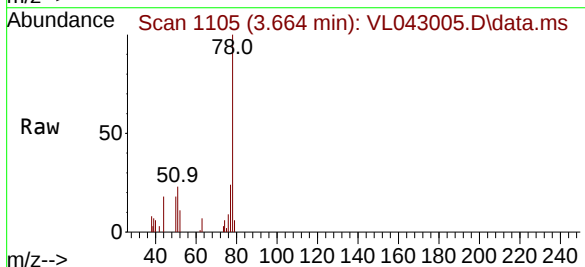
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

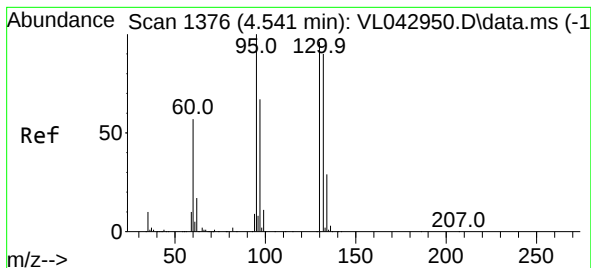
Tgt Ion: 43 Resp: 2464
Ion Ratio Lower Upper
43 100
72 16.8 17.7 26.5#



#36
Benzene
Concen: 0.148 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.013 min
Lab File: VL043005.D
Acq: 24 Sep 2025 12:03

Tgt Ion: 78 Resp: 6153
Ion Ratio Lower Upper
78 100
77 24.1 17.8 26.6
50 17.7 15.0 22.4





#38

Trichloroethene

Concen: 1.001 ppbv

RT: 4.554 min Scan# 1198

Delta R.T. 0.013 min

Lab File: VL043005.D

Acq: 24 Sep 2025 12:03

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion:130 Resp: 20680

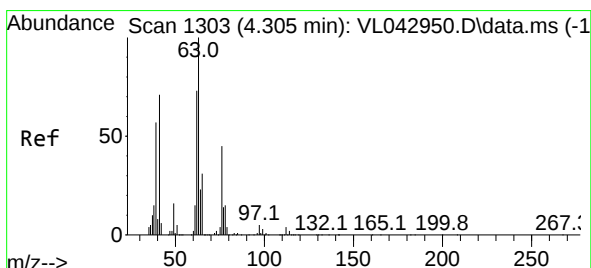
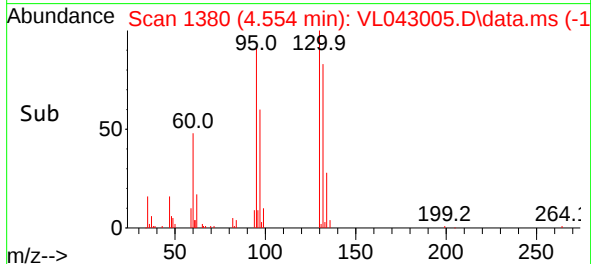
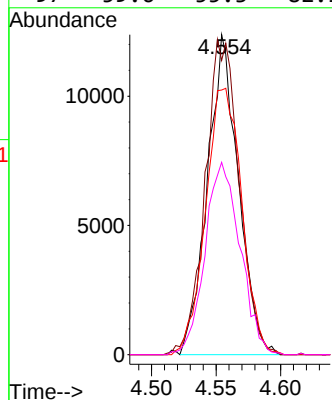
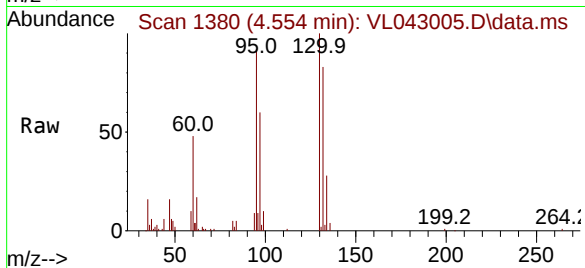
Ion Ratio Lower Upper

130 100

95 92.0 83.0 124.4

132 82.1 74.6 112.0

97 59.6 55.3 82.9



#39

1,2-Dichloropropane

Concen: 6.866 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.340 min

Lab File: VL043005.D

Acq: 24 Sep 2025 12:03

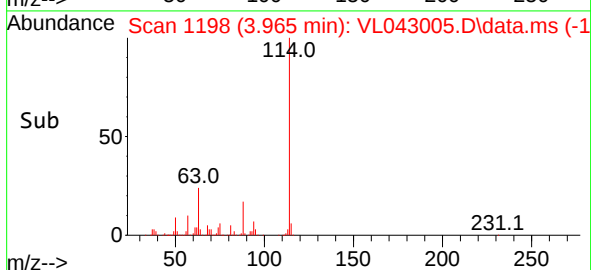
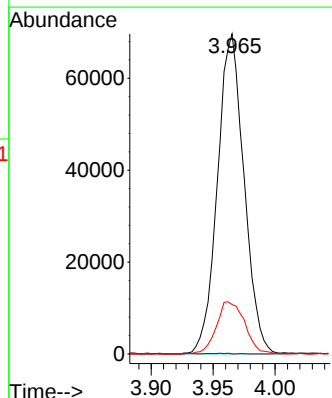
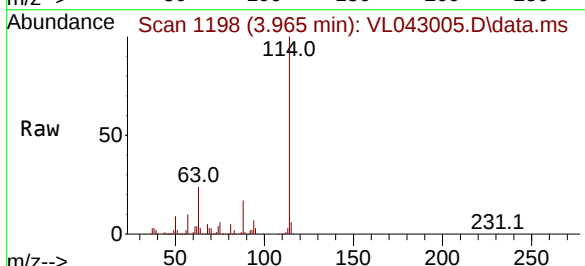
Tgt Ion: 63 Resp: 104205

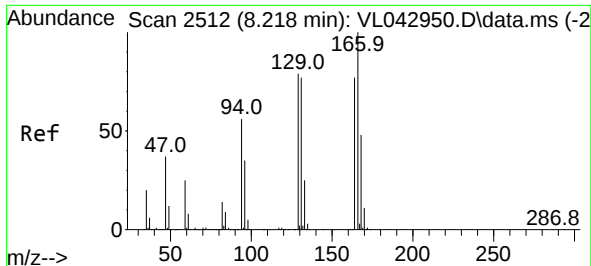
Ion Ratio Lower Upper

63 100

41 0.0 57.5 86.3#

62 15.4 58.5 87.7#

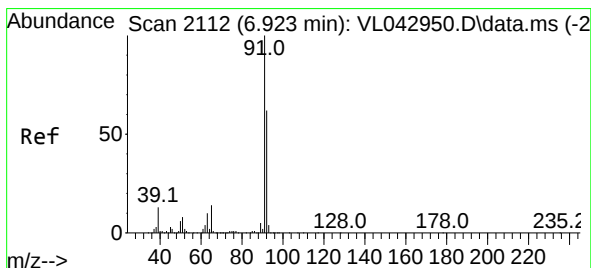
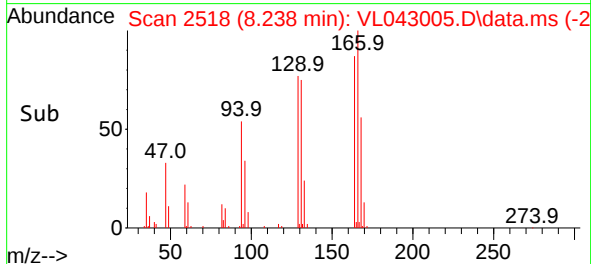
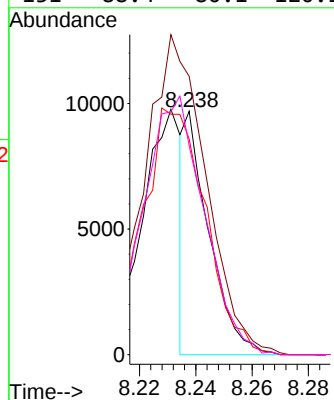
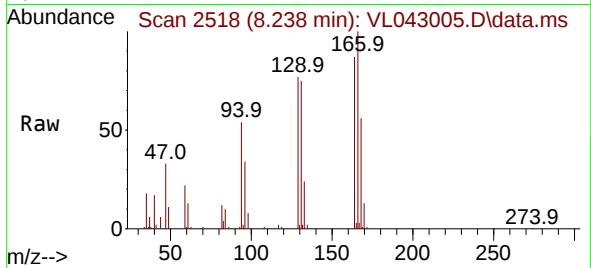




#52
Tetrachloroethene
Concen: 0.359 ppbv
RT: 8.238 min Scan# 2118
Delta R.T. 0.019 min
Lab File: VL043005.D
Acq: 24 Sep 2025 12:03

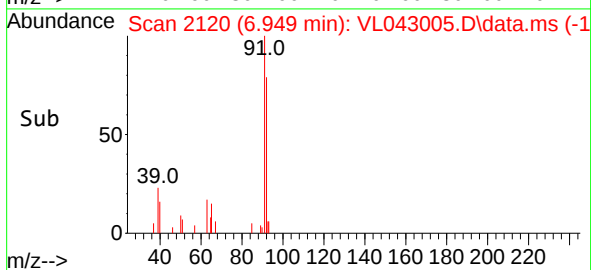
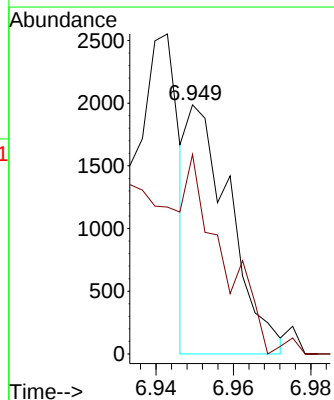
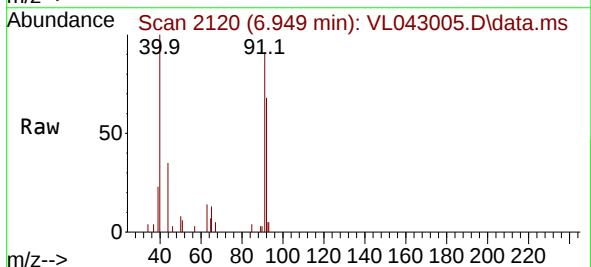
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

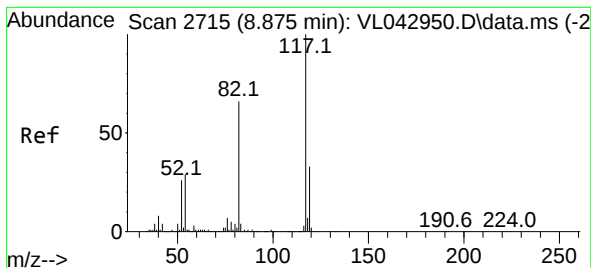
Tgt Ion:164 Resp: 5782
Ion Ratio Lower Upper
164 100
166 113.6 103.5 155.3
129 91.3 82.2 123.4
131 88.4 80.1 120.1



#53
Toluene
Concen: 0.031 ppbv
RT: 6.949 min Scan# 2120
Delta R.T. 0.026 min
Lab File: VL043005.D
Acq: 24 Sep 2025 12:03

Tgt Ion: 91 Resp: 1518
Ion Ratio Lower Upper
91 100
92 188.0 48.2 72.2#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL043005.D

Acq: 24 Sep 2025 12:03

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

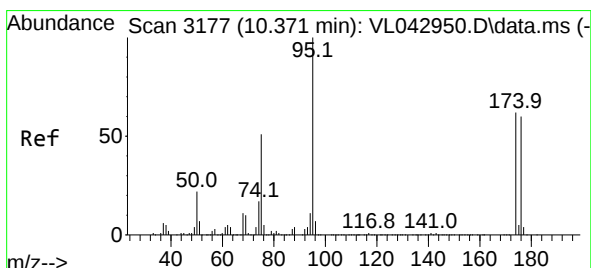
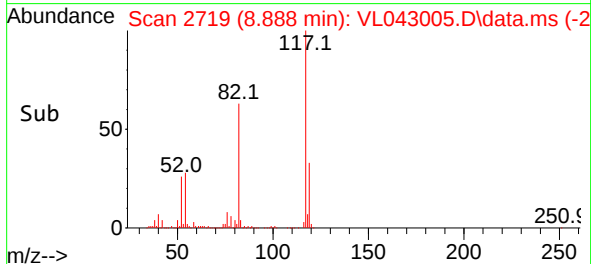
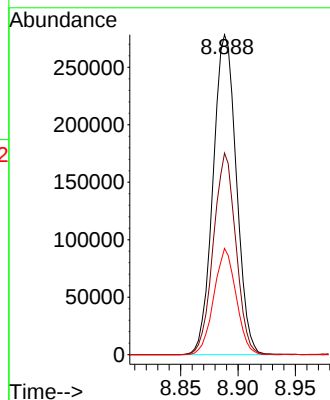
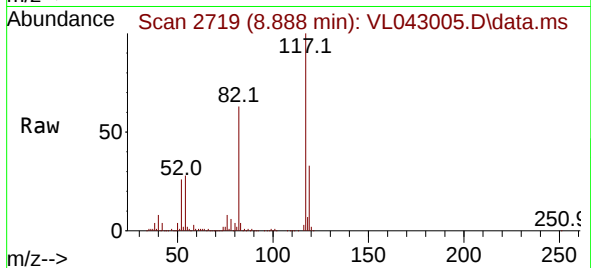
Tgt Ion:117 Resp: 392695

Ion Ratio Lower Upper

117 100

82 61.1 52.8 79.2

119 31.9 26.5 39.7



#68

1-Bromo-4-Fluorobenzene

Concen: 9.949 ppbv

RT: 10.383 min Scan# 3181

Delta R.T. 0.013 min

Lab File: VL043005.D

Acq: 24 Sep 2025 12:03

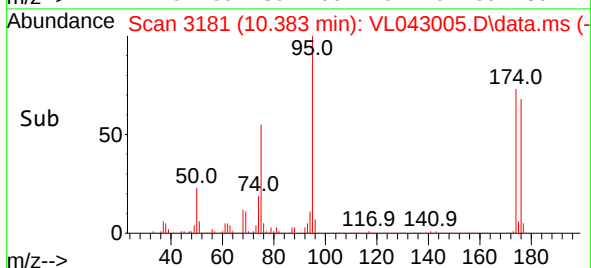
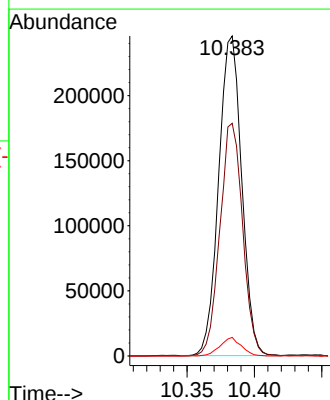
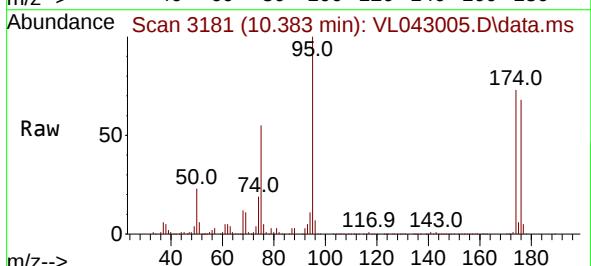
Tgt Ion: 95 Resp: 291628

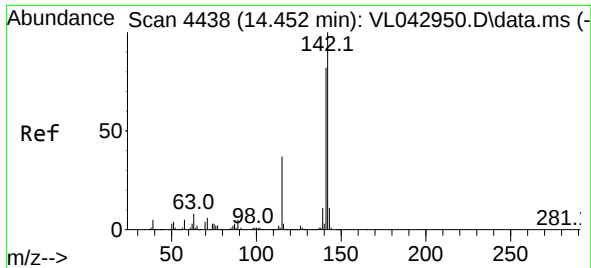
Ion Ratio Lower Upper

95 100

174 72.2 51.4 77.2

175 5.3 4.0 6.0





#80
 Naphthalene, 2-methyl-
 Concen: 0.071 ppbv
 RT: 14.471 min Scan# 44
 Delta R.T. 0.019 min
 Lab File: VL043005.D
 Acq: 24 Sep 2025 12:03

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tgt Ion:	142	Resp:	1098
Ion	Ratio	Lower	Upper
142	100		
141	94.3	65.1	97.7
115	28.4	28.9	43.3#

