

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
 Data File : VL043252.D
 Acq On : 19 Nov 2025 22:39
 Operator : SY/MD
 Sample : Q3626-08DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 12-SG-2DL

Quant Time: Nov 20 00:12:39 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)

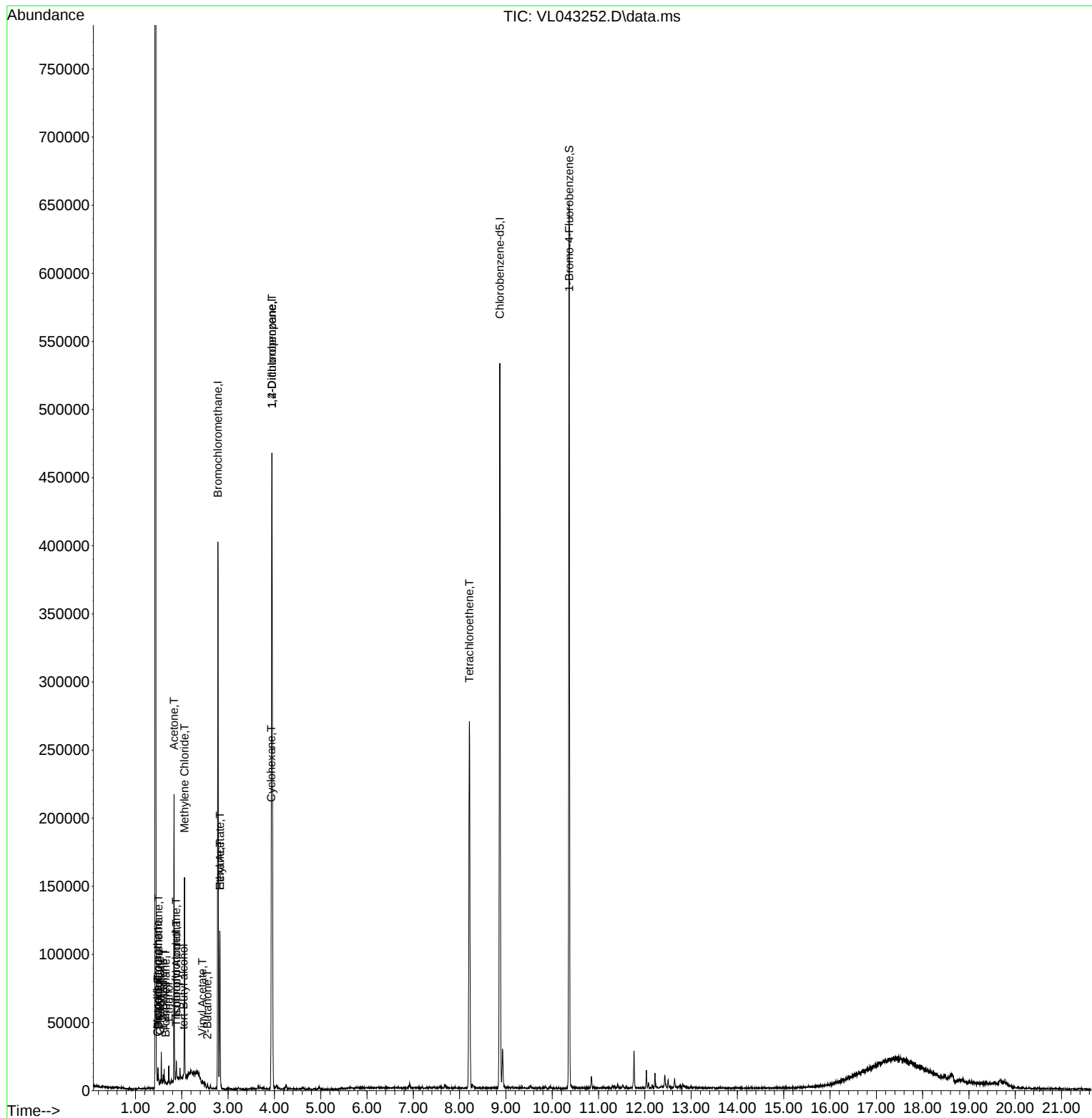
Internal Standards						
1) Bromochloromethane	2.781	49	100214	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	269502	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	209321	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	155026	10.104	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	1486	0.105	ppbv	97
3) Chlorodifluoromethane	1.473	51	1650	0.119	ppbv #	82
4) Chloromethane	1.531	50	378	0.072	ppbv #	50
6) Bromomethane	1.651	94	88	0.031	ppbv #	40
9) Propene	1.483	41	1075	0.182	ppbv #	1
11) Trichlorofluoromethane	1.878	101	757	0.055	ppbv	90
13) Ethanol	1.719	45	4797	2.311	ppbv #	38
15) Acetone	1.832	43	89834	6.452	ppbv	98
16) 1,3-Butadiene	1.599	39	969	0.156	ppbv #	32
17) tert-Butyl alcohol	2.039	59	731	0.040	ppbv #	81
19) Isopropyl Alcohol	1.884	45	4878	0.620	ppbv #	1
20) Methylene Chloride	2.059	84	22446	5.085	ppbv	92
23) Vinyl Acetate	2.444	43	971	0.058	ppbv #	1
25) Ethyl Acetate	2.823	43	18553	0.618	ppbv #	78
26) Hexane	2.823	57	25725	1.954	ppbv #	42
30) Cyclohexane	3.933	84	565	0.051	ppbv #	1
34) 2-Butanone	2.554	43	2247	0.118	ppbv #	84
39) 1,2-Dichloropropane	3.946	63	68085	7.208	ppbv #	26
52) Tetrachloroethene	8.208	164	47059	4.902	ppbv	94

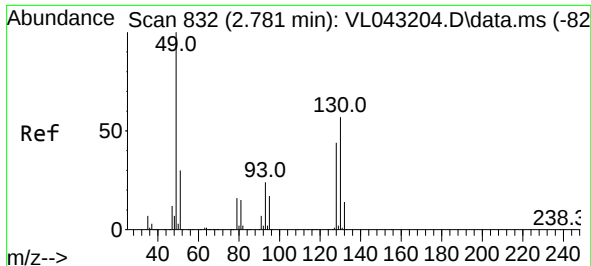
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111925\
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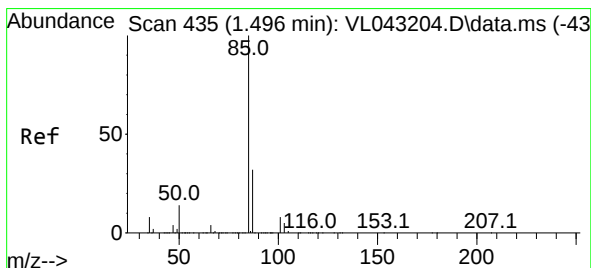
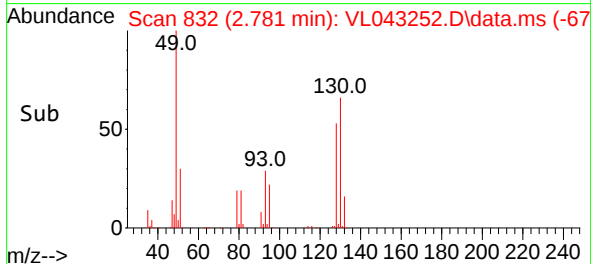
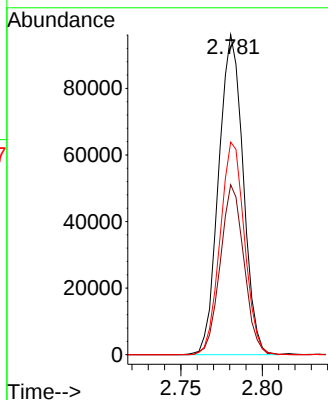
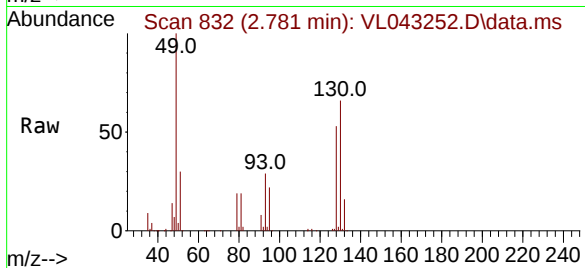




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

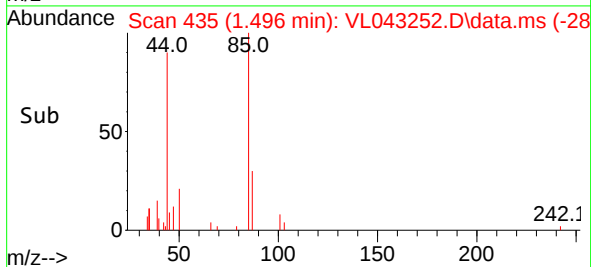
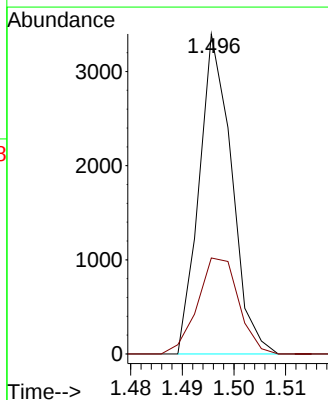
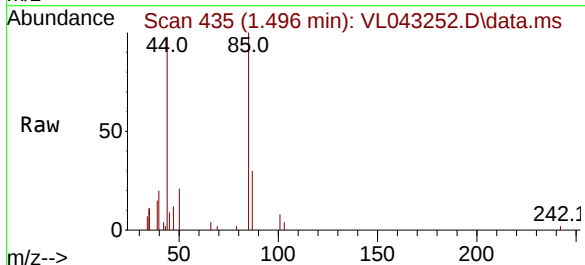
Instrument :
MSVOA_L
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12-SG-2DL

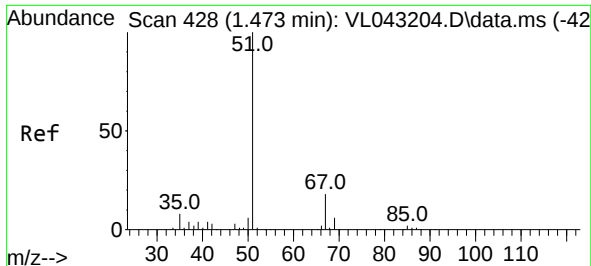
Tgt Ion: 49 Resp: 100214
Ion Ratio Lower Upper
49 100
128 51.4 23.0 69.0
130 66.3 29.9 89.7



#2
Dichlorodifluoromethane
Concen: 0.105 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.000 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Tgt Ion: 85 Resp: 1486
Ion Ratio Lower Upper
85 100
87 30.0 25.4 38.2

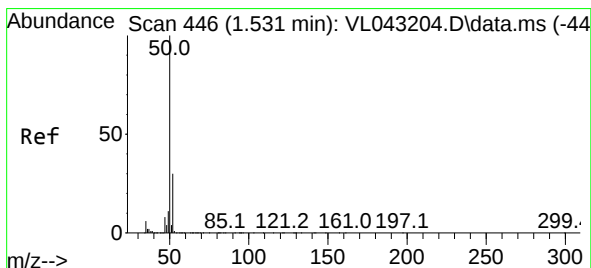
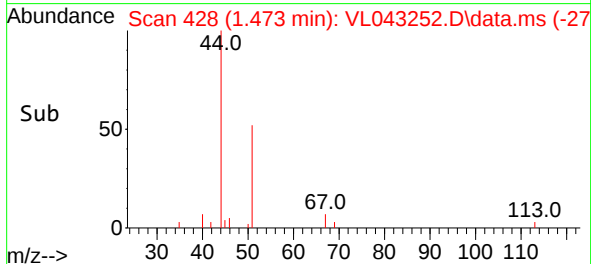
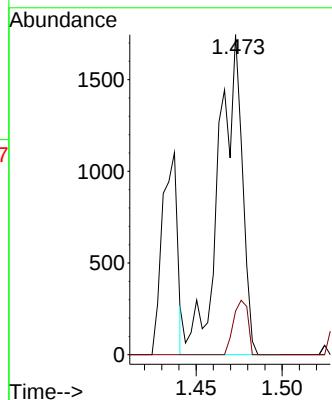
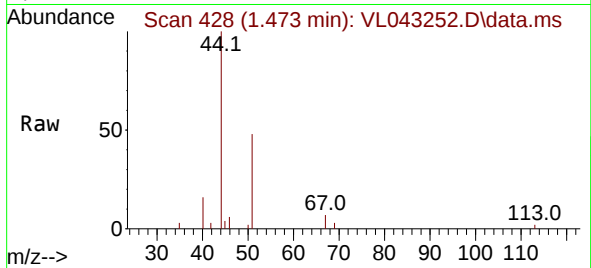




#3
Chlorodifluoromethane
Concen: 0.119 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

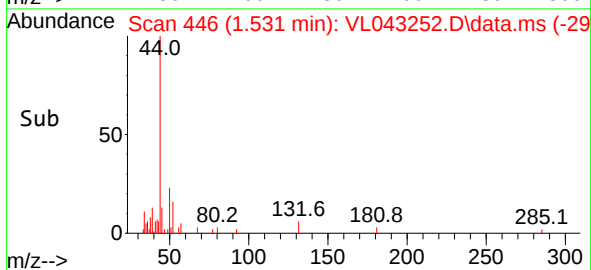
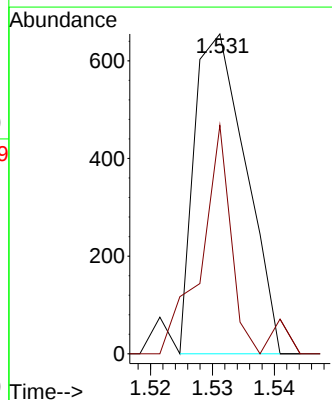
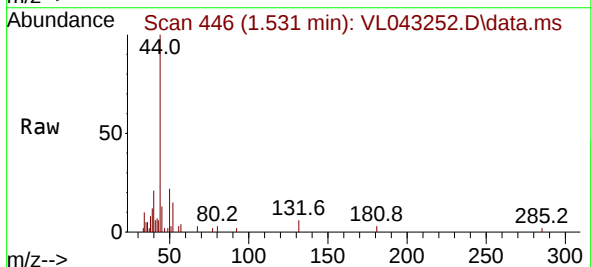
Instrument :
MSVOA_L
ClientSampleId :
12-SG-2DL

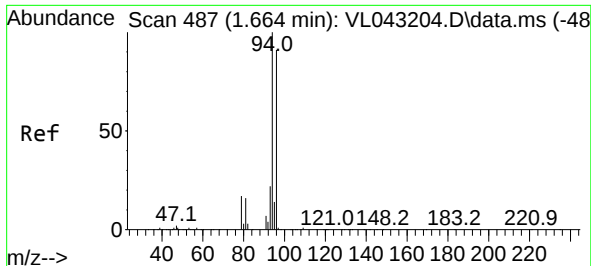
Tgt Ion: 51 Resp: 1650
Ion Ratio Lower Upper
51 100
67 10.5 14.9 22.3#



#4
Chloromethane
Concen: 0.072 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Tgt Ion: 50 Resp: 378
Ion Ratio Lower Upper
50 100
52 57.2 24.1 36.1#

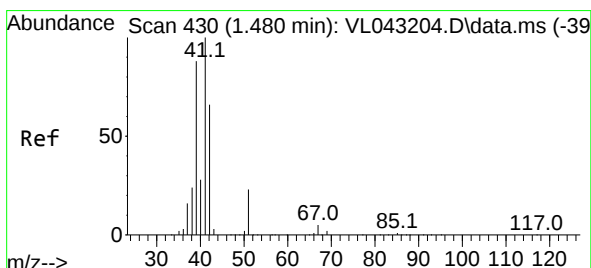
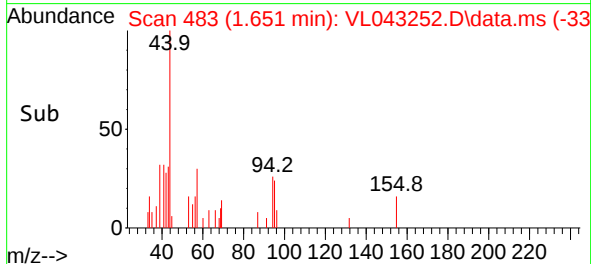
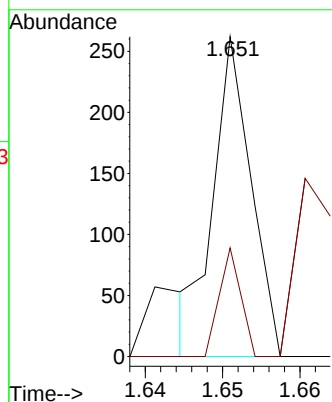
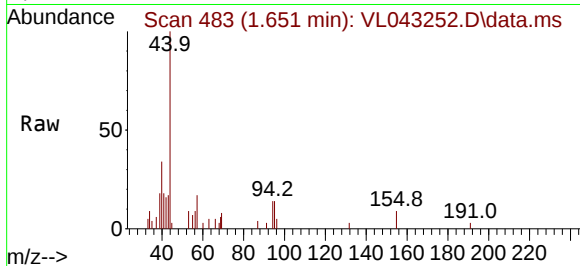




#6
Bromomethane
Concen: 0.031 ppbv
RT: 1.651 min Scan# 41
Delta R.T. -0.013 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

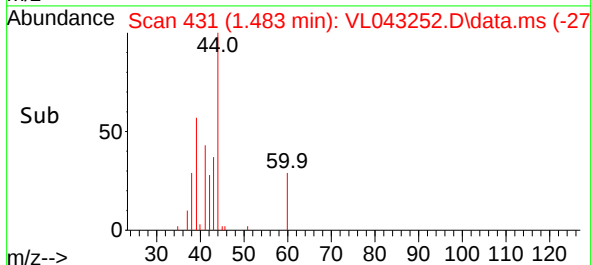
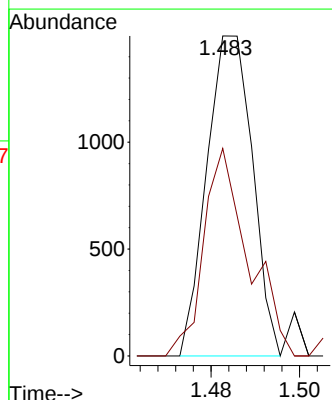
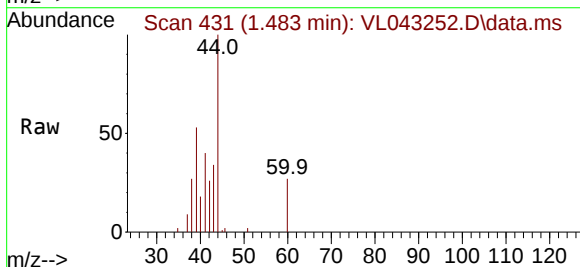
Instrument :
MSVOA_L
ClientSampleId :
12-SG-2DL

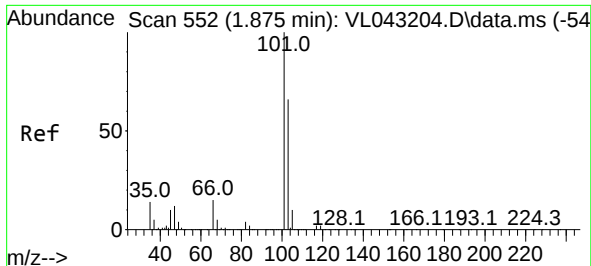
Tgt Ion: 94 Resp: 88
Ion Ratio Lower Upper
94 100
96 34.0 72.9 109.3#



#9
Propene
Concen: 0.182 ppbv
RT: 1.483 min Scan# 431
Delta R.T. 0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Tgt Ion: 41 Resp: 1075
Ion Ratio Lower Upper
41 100
42 65.1 3.7 5.5#

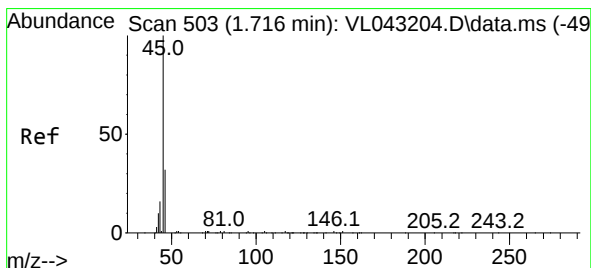
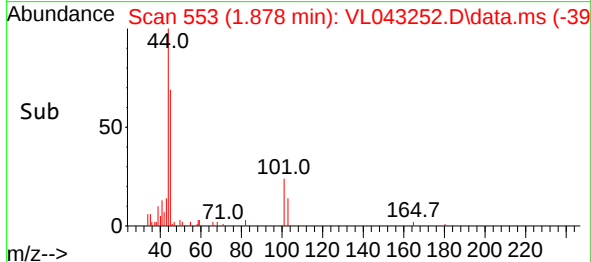
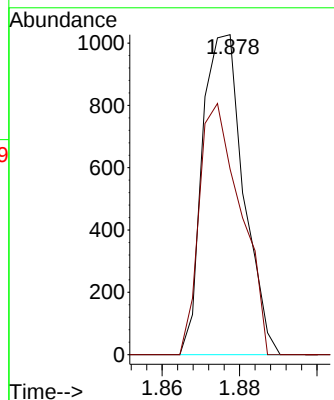
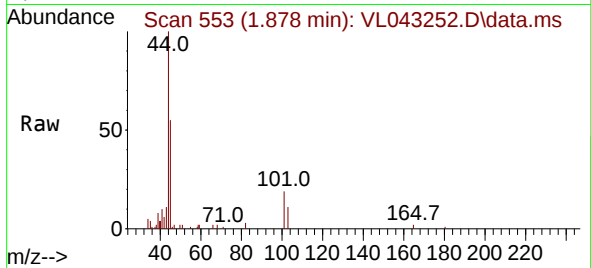




#11
 Trichlorofluoromethane
 Concen: 0.055 ppbv
 RT: 1.878 min Scan# 51
 Delta R.T. 0.003 min
 Lab File: VL043252.D
 Acq: 19 Nov 2025 22:39

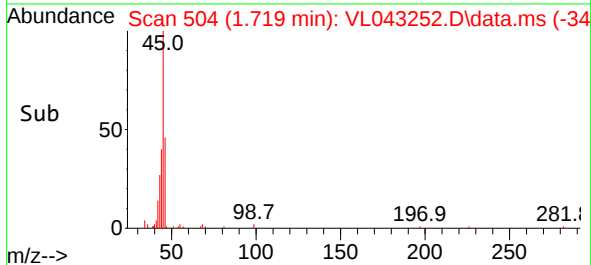
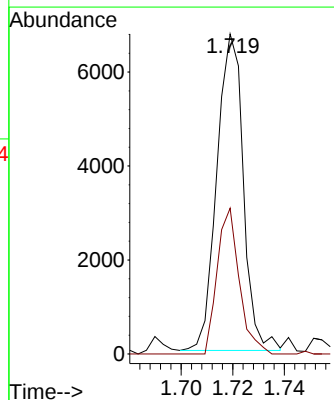
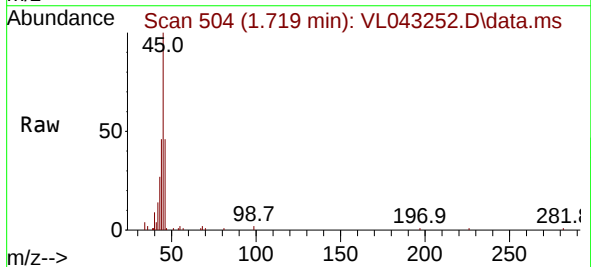
Instrument :
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 ClientSampleId :
 12-SG-2DL

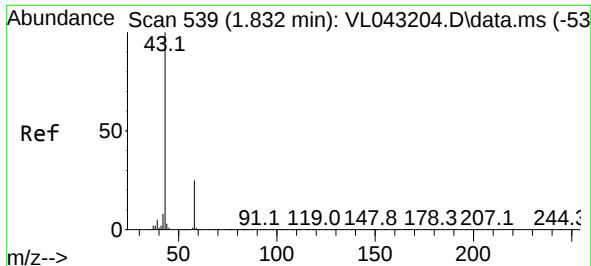
Tgt Ion:101 Resp: 757
 Ion Ratio Lower Upper
 101 100
 103 57.9 52.6 79.0



#13
 Ethanol
 Concen: 2.311 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL043252.D
 Acq: 19 Nov 2025 22:39

Tgt Ion: 45 Resp: 4797
 Ion Ratio Lower Upper
 45 100
 46 0.0 15.0 59.8#

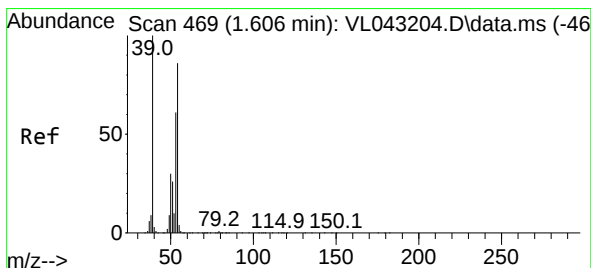
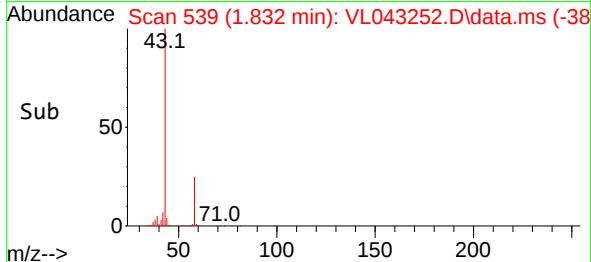
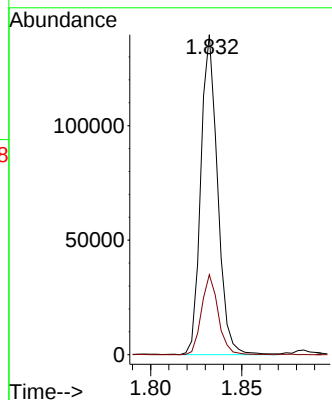
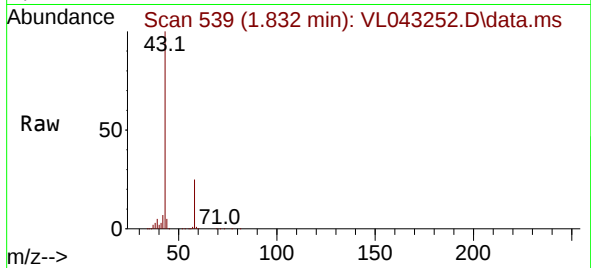




#15
Acetone
Concen: 6.452 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

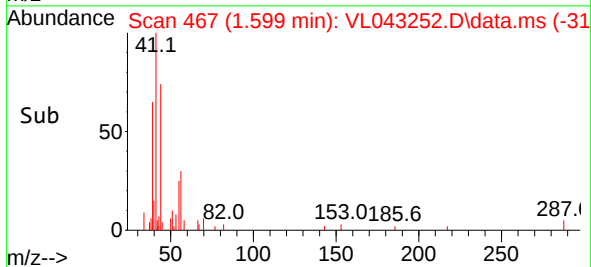
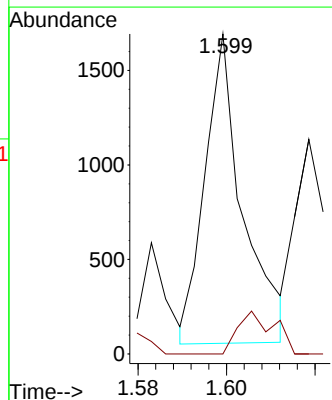
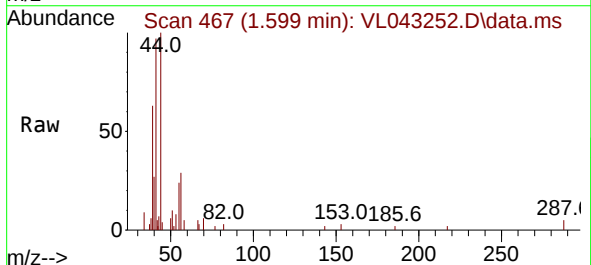
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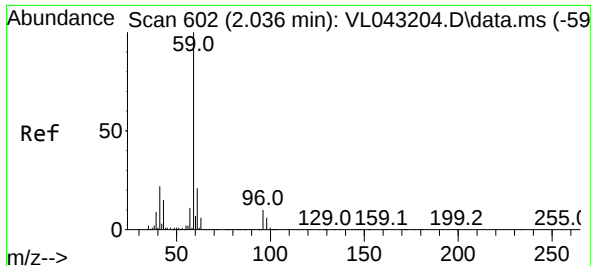
Tgt Ion: 43 Resp: 89834
Ion Ratio Lower Upper
43 100
58 24.7 20.7 31.1



#16
1,3-Butadiene
Concen: 0.156 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.007 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Tgt Ion: 39 Resp: 969
Ion Ratio Lower Upper
39 100
54 16.8 59.4 89.2#

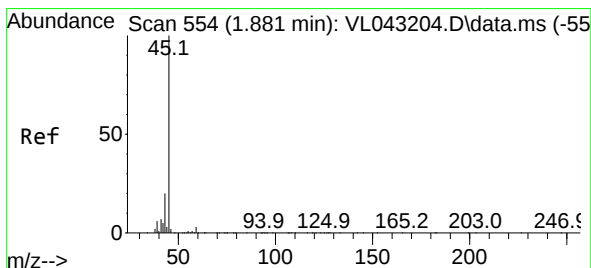
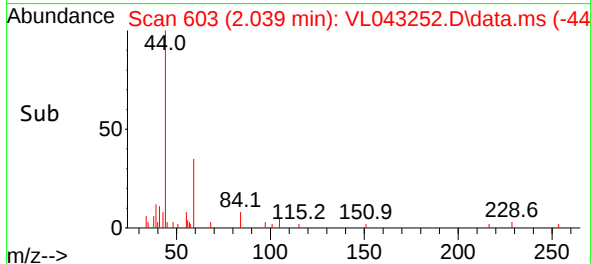
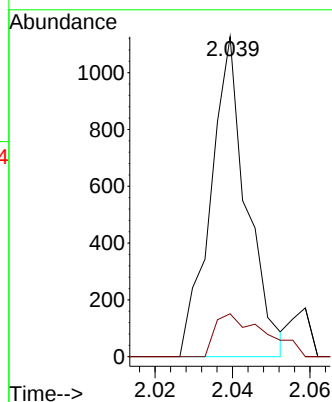
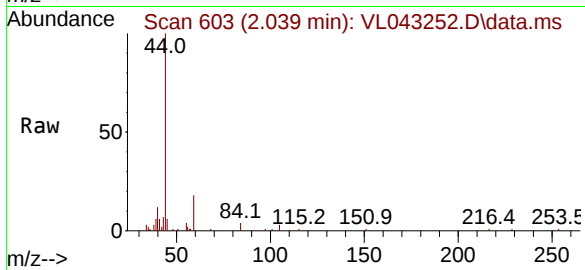




#17
tert-Butyl alcohol
Concen: 0.040 ppbv
RT: 2.039 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

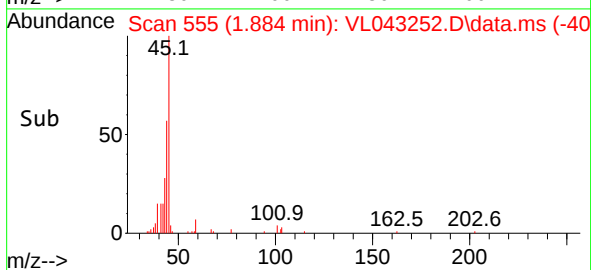
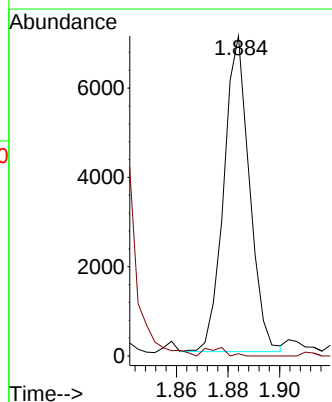
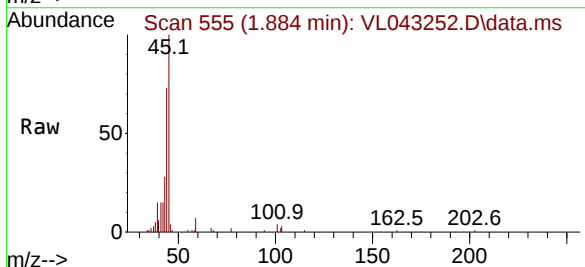
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ClientSampleId :
12-SG-2DL

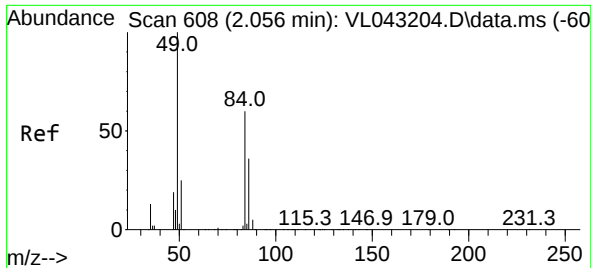
Tgt Ion: 59 Resp: 731
Ion Ratio Lower Upper
59 100
57 18.3 9.0 13.4#



#19
Isopropyl Alcohol
Concen: 0.620 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Tgt Ion: 45 Resp: 4878
Ion Ratio Lower Upper
45 100
58 455.0 31.3 46.9#

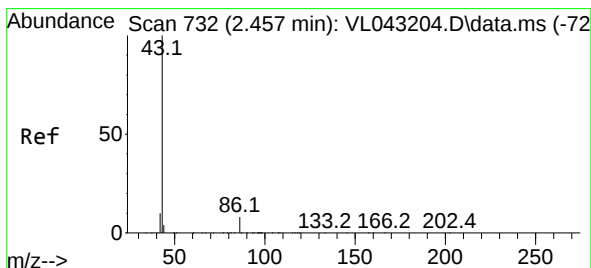
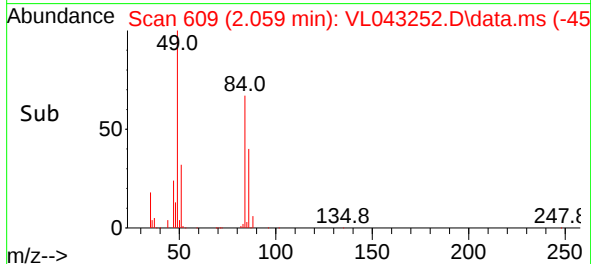
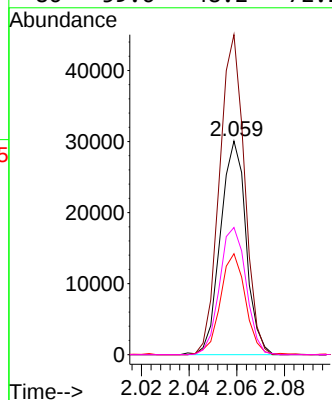
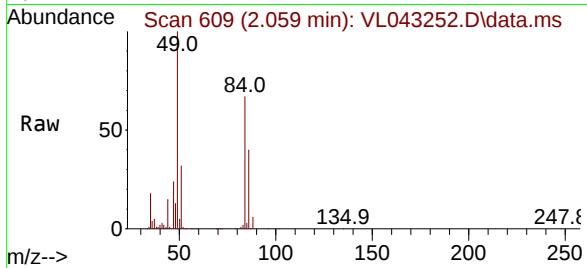




#20
Methylene Chloride
Concen: 5.085 ppbv
RT: 2.059 min Scan# 608
Delta R.T. 0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

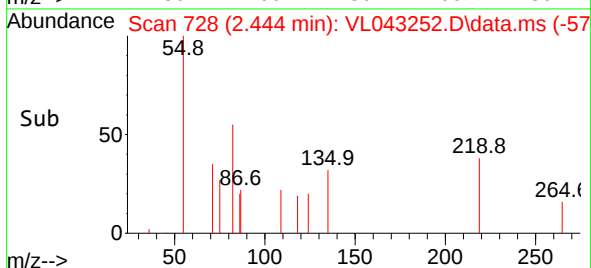
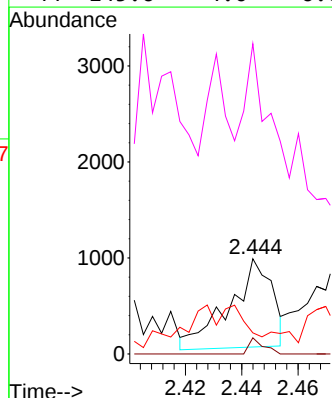
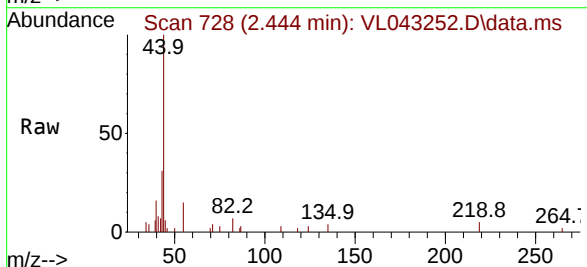
Instrument :
MSVOA_L
ClientSampleId :
12-SG-2DL

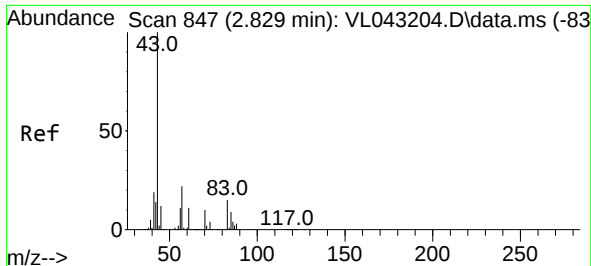
Tgt Ion: 84 Resp: 22446
Ion Ratio Lower Upper
84 100
49 149.8 132.9 199.3
51 47.0 34.8 52.2
86 59.6 48.2 72.2



#23
Vinyl Acetate
Concen: 0.058 ppbv
RT: 2.444 min Scan# 728
Delta R.T. -0.013 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Tgt Ion: 43 Resp: 971
Ion Ratio Lower Upper
43 100
86 20.6 6.2 9.2#
42 0.9 8.0 12.0#
44 145.6 4.0 6.0#

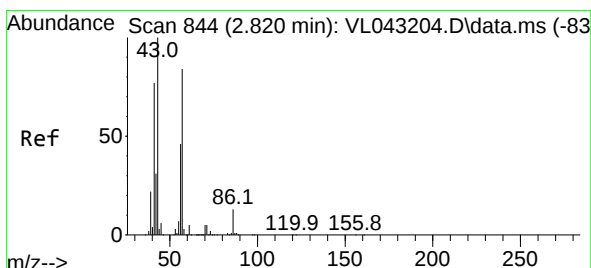
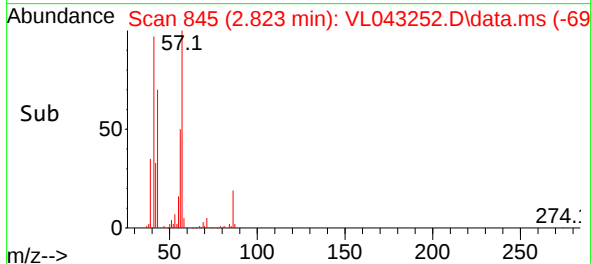
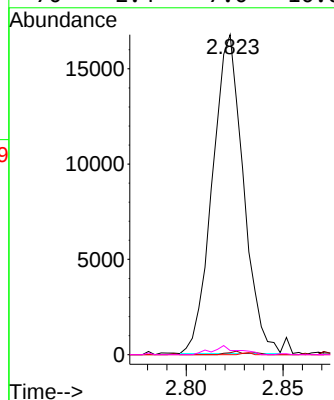
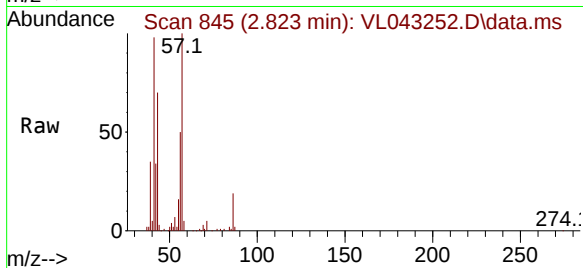




#25
Ethyl Acetate
Concen: 0.618 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.007 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

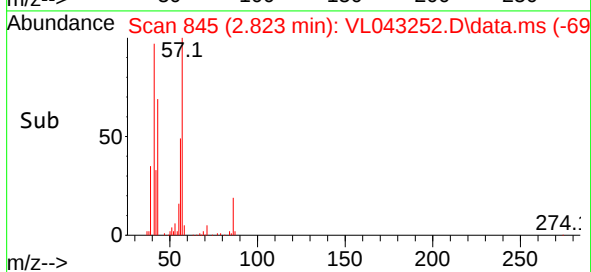
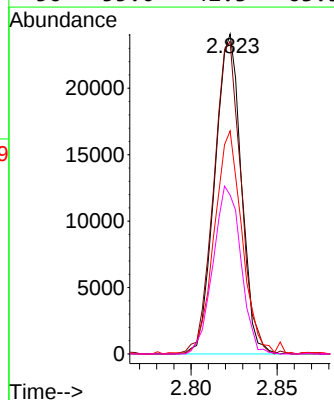
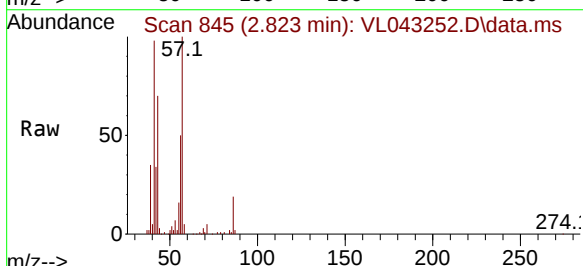
Instrument :
MSVOA_L
ClientSampleId :
12-SG-2DL

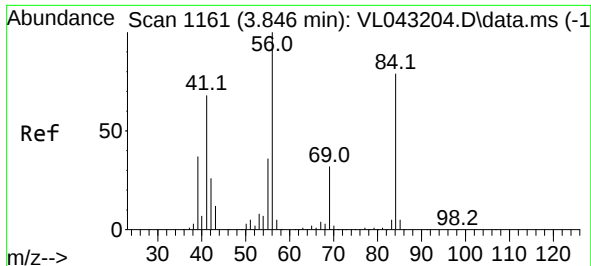
Tgt Ion: 43	Resp: 18553
Ion Ratio	Lower Upper
43 100	
45 0.7	8.1 12.1#
61 0.2	7.0 10.4#
70 2.4	7.0 10.6#



#26
Hexane
Concen: 1.954 ppbv
RT: 2.823 min Scan# 845
Delta R.T. 0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Tgt	Ion: 57	Resp:	25725
	Ratio	Lower	Upper
57	100		
41	100.9	74.6	111.8
43	74.3	179.0	268.4#
56	55.0	42.3	63.5

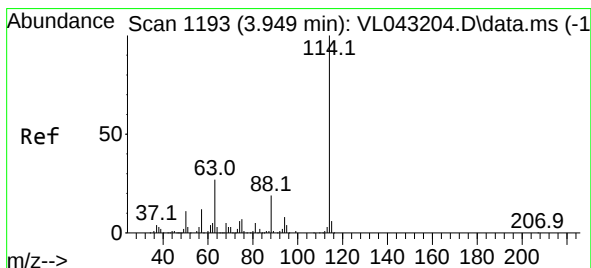
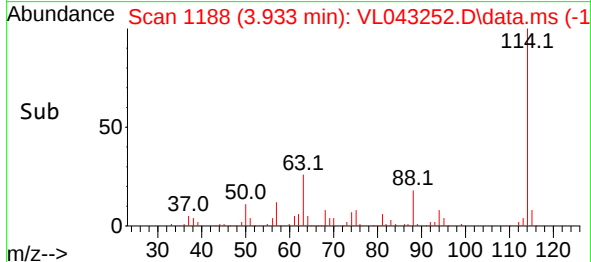
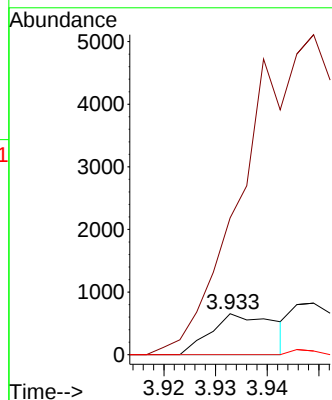
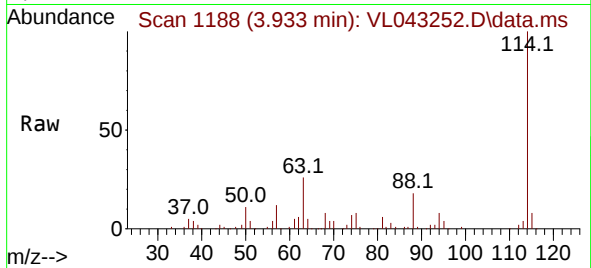




#30
Cyclohexane
Concen: 0.051 ppbv
RT: 3.933 min Scan# 1161
Delta R.T. 0.087 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

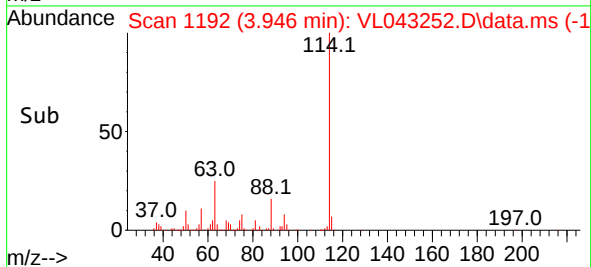
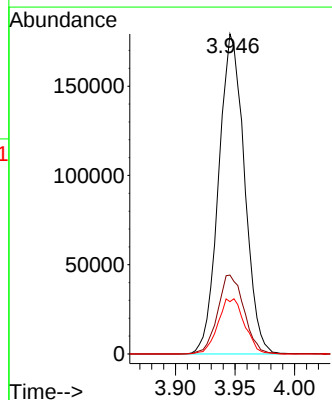
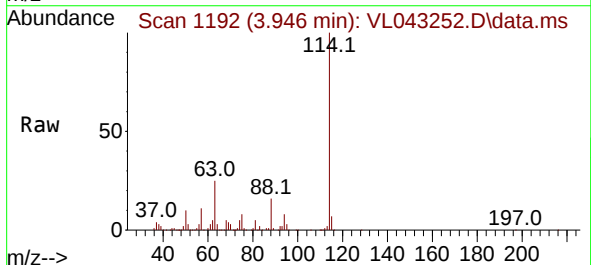
Instrument :
MSVOA_L
ClientSampleId :
12-SG-2DL

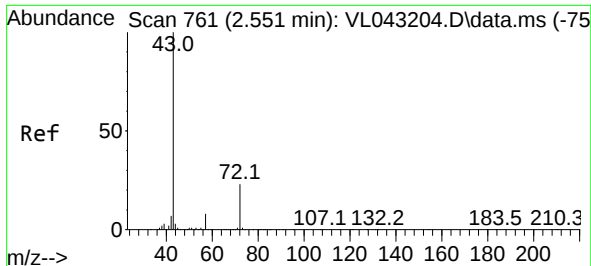
Tgt Ion: 84 Resp: 565
Ion Ratio Lower Upper
84 100
56 0.0 104.7 157.1#
41 9.6 69.0 103.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Tgt Ion: 114 Resp: 269502
Ion Ratio Lower Upper
114 100
63 25.3 21.0 31.6
88 17.8 14.9 22.3

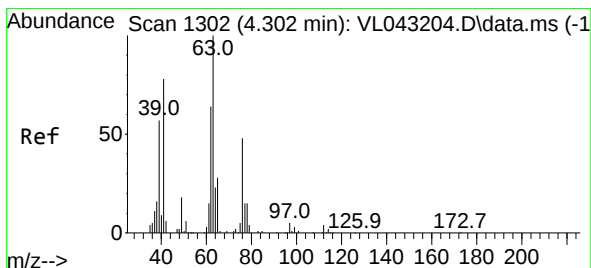
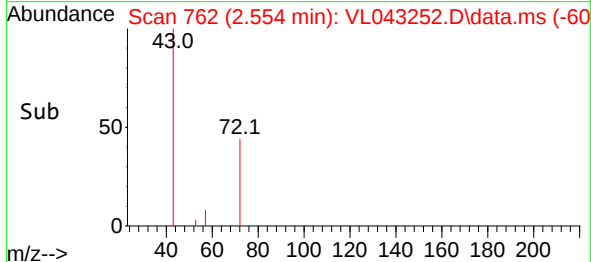
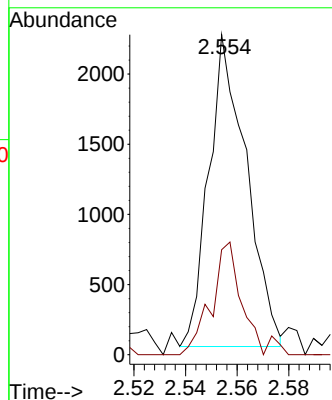
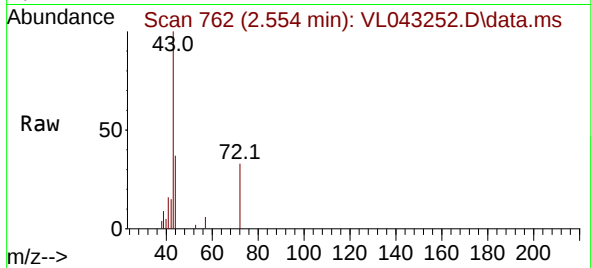




#34
2-Butanone
Concen: 0.118 ppbv
RT: 2.554 min Scan# 761
Delta R.T. 0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

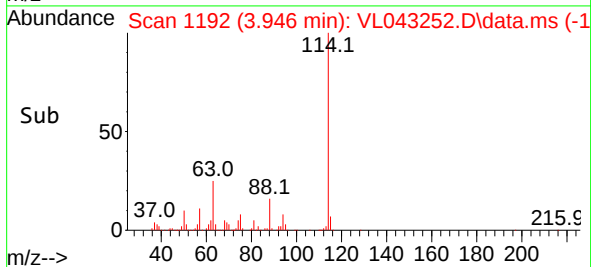
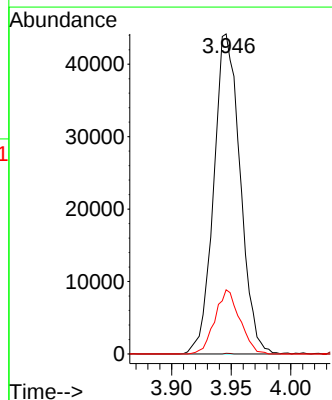
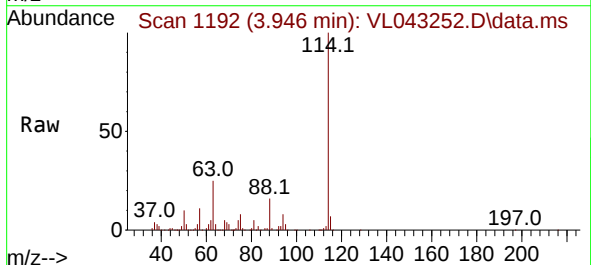
Instrument :
MSVOA_1
ClientSampleId :
12-SG-2DL

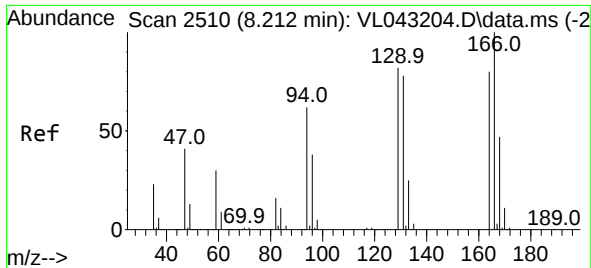
Tgt Ion: 43 Resp: 2247
Ion Ratio Lower Upper
43 100
72 30.1 18.1 27.1#



#39
1,2-Dichloropropane
Concen: 7.208 ppbv
RT: 3.946 min Scan# 1192
Delta R.T. -0.356 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Tgt Ion: 63 Resp: 68085
Ion Ratio Lower Upper
63 100
41 0.2 62.6 93.8#
62 20.0 51.0 76.6#



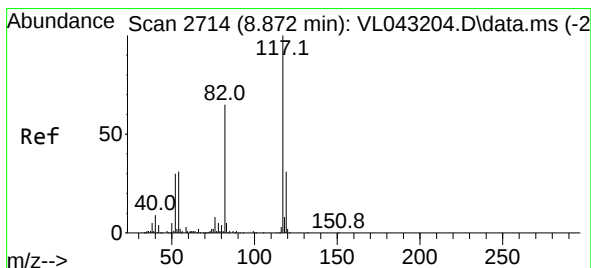
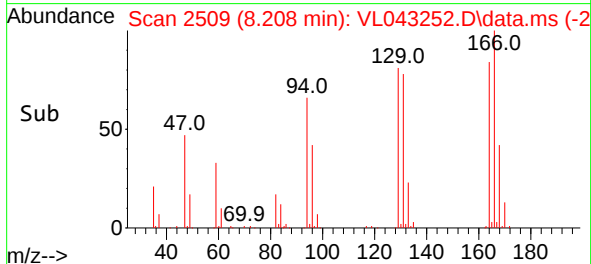
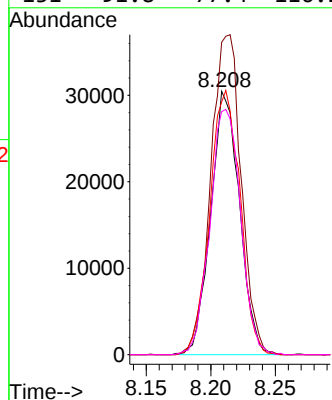
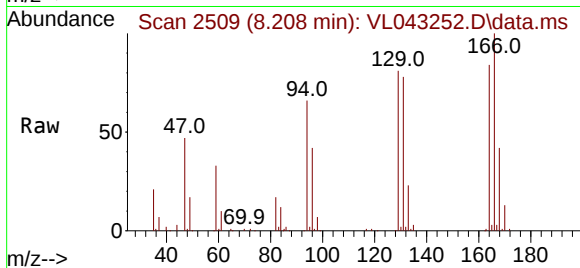


#52
Tetrachloroethene
Concen: 4.902 ppbv
RT: 8.208 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Instrument :
MSVOA_L
ClientSampleId :
12-SG-2DL

Tgt Ion:164 Resp: 47059

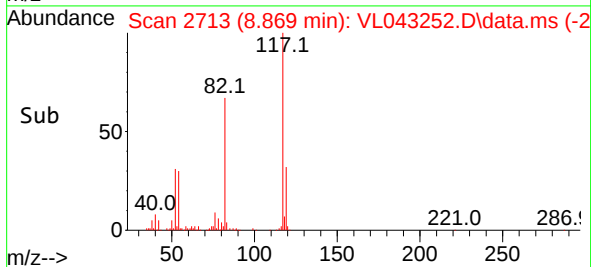
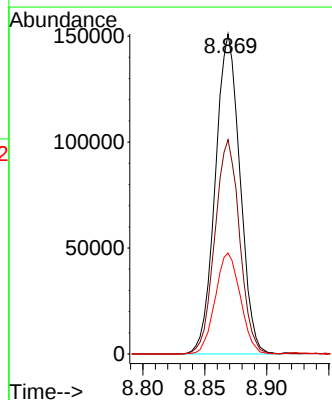
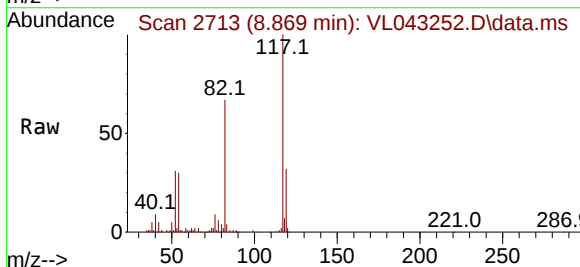
Ion	Ratio	Lower	Upper
164	100		
166	118.3	99.4	149.2
129	95.9	81.8	122.8
131	91.8	77.4	116.2

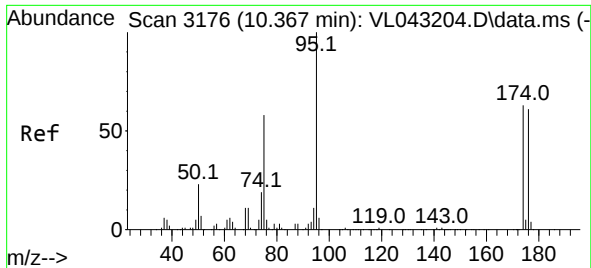


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. -0.003 min
Lab File: VL043252.D
Acq: 19 Nov 2025 22:39

Tgt Ion:117 Resp: 209321

Ion	Ratio	Lower	Upper
117	100		
82	67.3	56.1	84.1
119	32.6	25.0	37.6





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.104 ppbv
 RT: 10.364 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VL043252.D
 Acq: 19 Nov 2025 22:39

Instrument :
 MSVOA_L
 ClientSampleId :
 12-SG-2DL

Tgt Ion: 95 Resp: 155026
 Ion Ratio Lower Upper
 95 100
 174 64.1 50.2 75.2
 175 4.5 4.1 6.1

