

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041901.D
 Acq On : 14 Jan 2025 20:40
 Operator : SY/MD
 Sample : Q1073-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 15 03:26:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

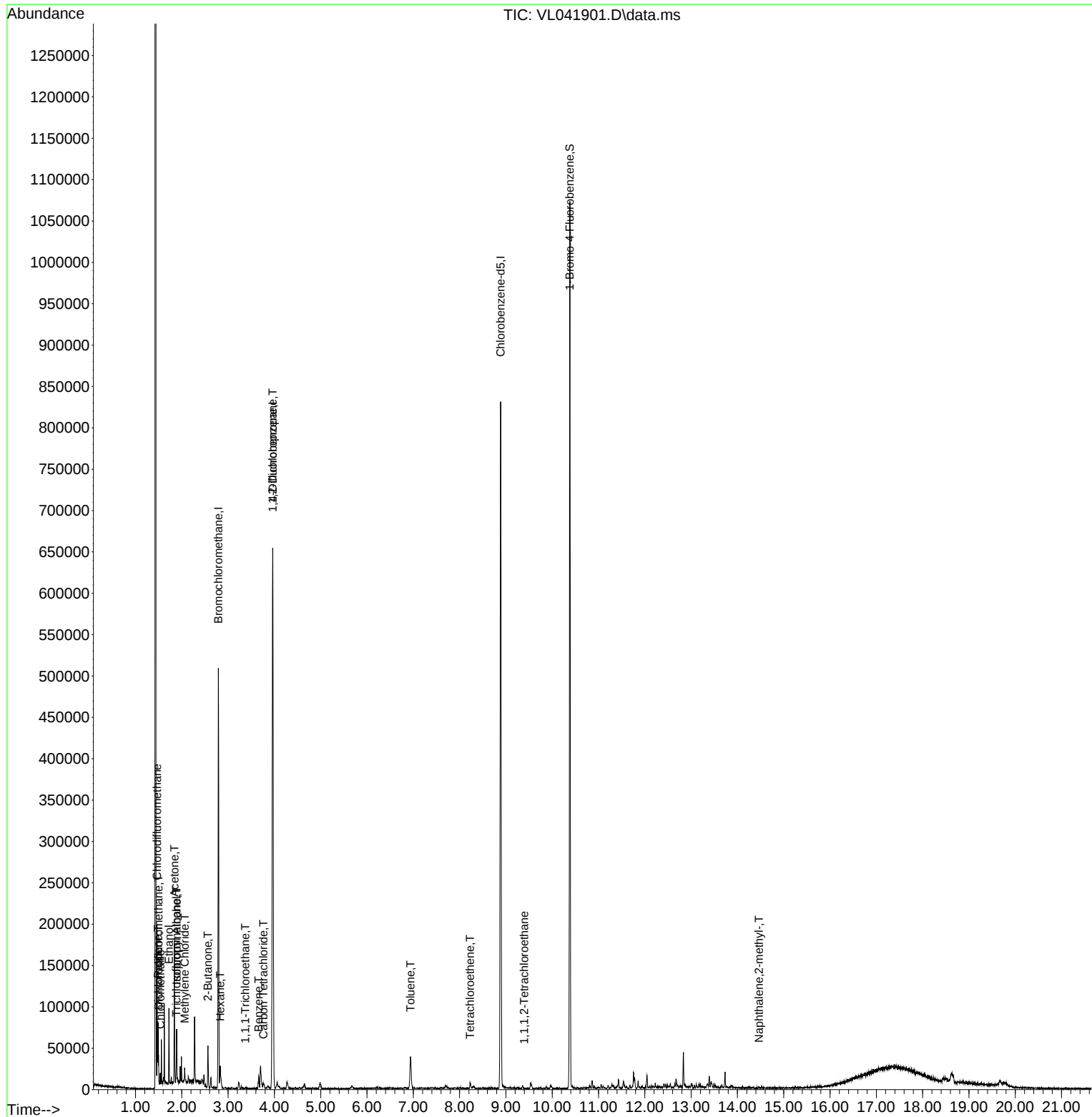
Internal Standards							
1) Bromochloromethane		2.790	49	138054	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		3.965	114	398730	10.000	ppbv	0.00
55) Chlorobenzene-d5		8.885	117	344203	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.380	95	271467	10.013	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	=	100.100%
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane		1.499	85	8271	0.440	ppbv	97
3) Chlorodifluoromethane		1.466	51	46997	2.386	ppbv #	67
4) Chloromethane		1.534	50	4102	0.580	ppbv	99
9) Propene		1.489	41	6720	0.828	ppbv #	82
11) Trichlorofluoromethane		1.881	101	4357	0.223	ppbv	92
13) Ethanol		1.722	45	30323	51.014	ppbv	90
15) Acetone		1.839	43	74062	4.467	ppbv	97
19) Isopropyl Alcohol		1.887	45	25827	2.627	ppbv #	54
20) Methylene Chloride		2.062	84	2103	0.321	ppbv #	92
26) Hexane		2.829	57	5562	0.315	ppbv #	56
32) 1,1,1-Trichloroethane		3.370	97	272	0.010	ppbv #	41
34) 2-Butanone		2.564	43	30106	1.187	ppbv	97
35) Carbon Tetrachloride		3.761	117	1875	0.075	ppbv #	58
36) Benzene		3.661	78	7984	0.218	ppbv #	80
39) 1,2-Dichloropropane		3.962	63	98297	7.663	ppbv #	23
52) Tetrachloroethene		8.228	164	786	0.062	ppbv #	45
53) Toluene		6.940	91	26956	0.677	ppbv	97
56) 1,1,1,2-Tetrachloroethane		9.393	131	30	0.002	ppbv #	9
80) Naphthalene,2-methyl-		14.465	142	569	0.024	ppbv	91

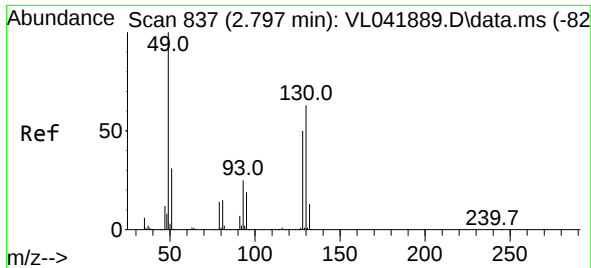
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
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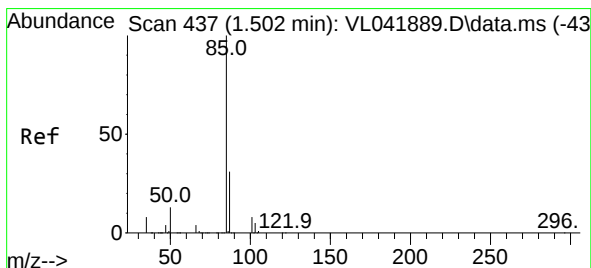
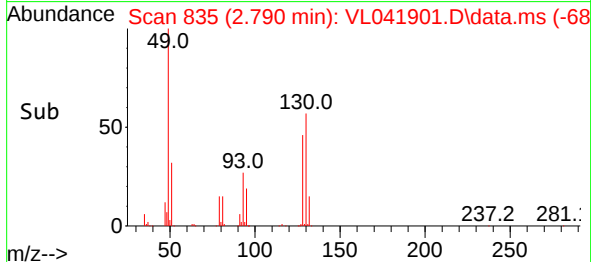
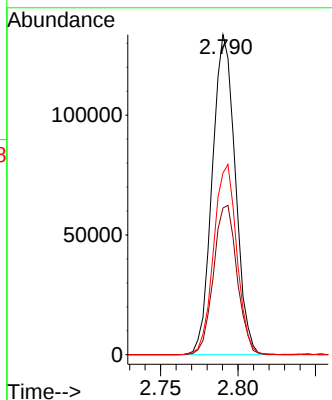
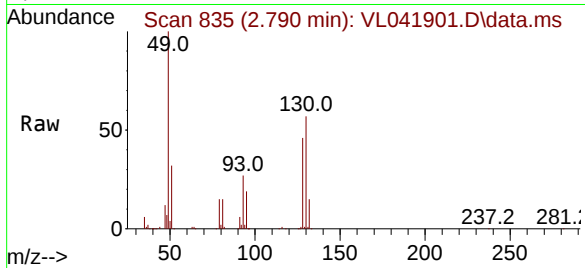




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 81
 Delta R.T. -0.007 min
 Lab File: VL041901.D
 Acq: 14 Jan 2025 20:40

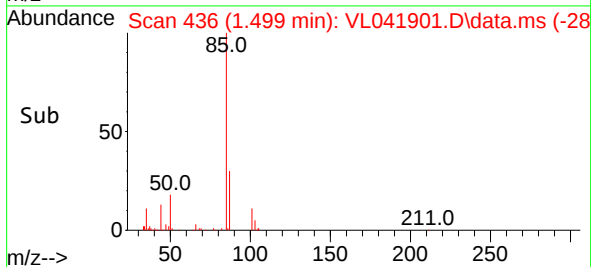
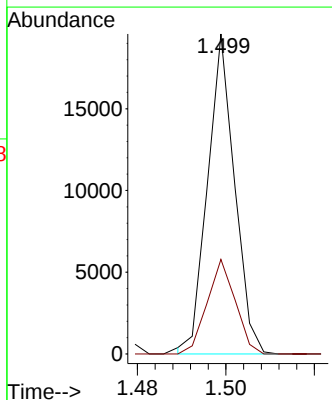
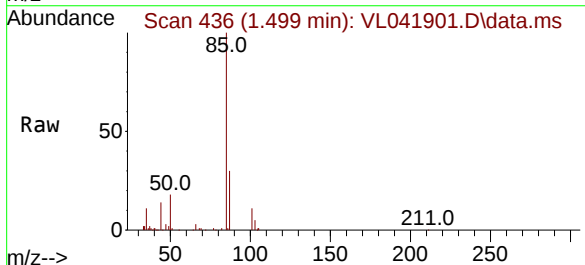
Instrument :
 MSVOA_L
 ClientSampleId :

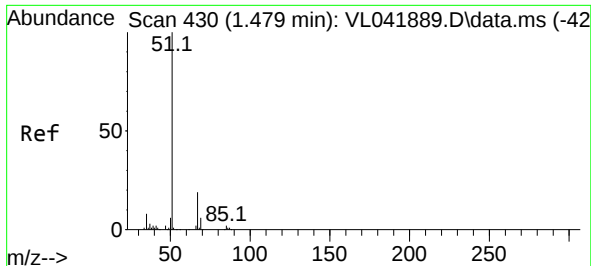
Tgt Ion: 49 Resp: 138054
 Ion Ratio Lower Upper
 49 100
 128 47.7 24.3 73.0
 130 59.8 31.1 93.2



#2
 Dichlorodifluoromethane
 Concen: 0.440 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. -0.003 min
 Lab File: VL041901.D
 Acq: 14 Jan 2025 20:40

Tgt Ion: 85 Resp: 8271
 Ion Ratio Lower Upper
 85 100
 87 29.6 24.9 37.3

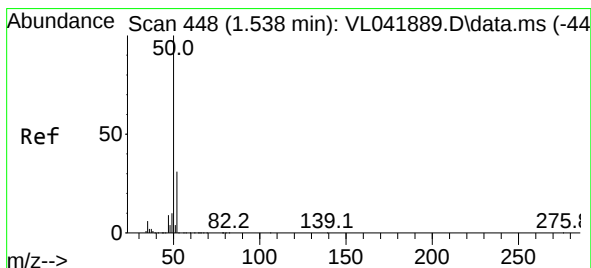
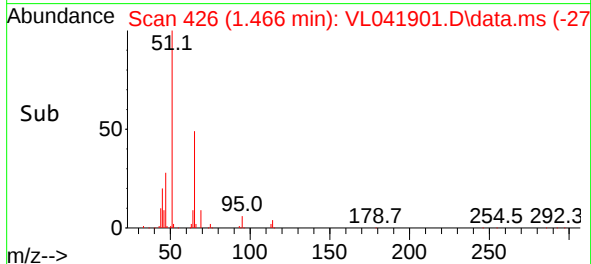
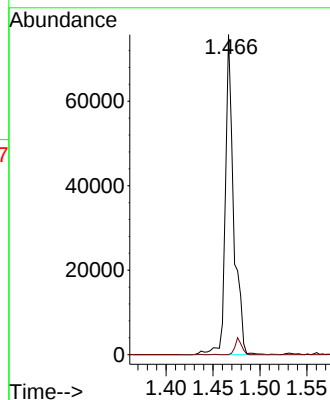
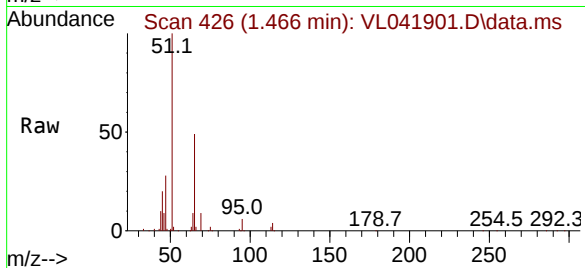




#3
Chlorodifluoromethane
Concen: 2.386 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.013 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

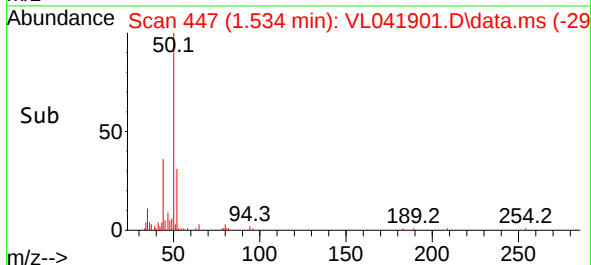
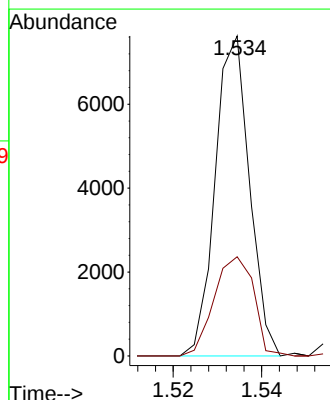
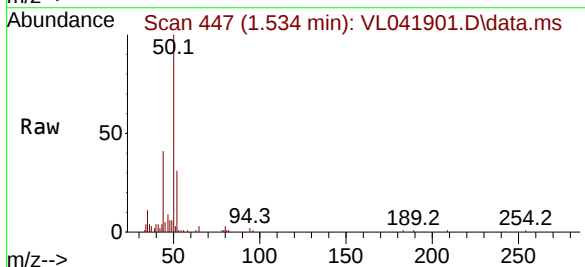
Instrument :
MSVOA_L
ClientSampleId :

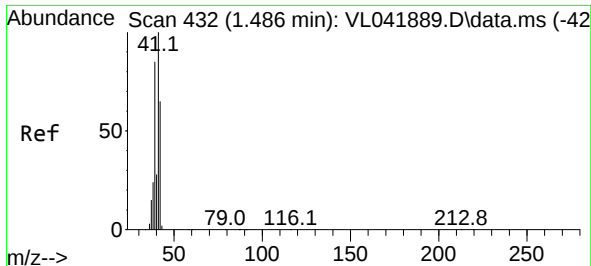
Tgt Ion: 51 Resp: 46997
Ion Ratio Lower Upper
51 100
67 4.1 15.0 22.4#



#4
Chloromethane
Concen: 0.580 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.003 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

Tgt Ion: 50 Resp: 4102
Ion Ratio Lower Upper
50 100
52 31.0 24.6 36.8





#9

Propene

Concen: 0.828 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041901.D

Acq: 14 Jan 2025 20:40

Instrument :

MSVOA_L

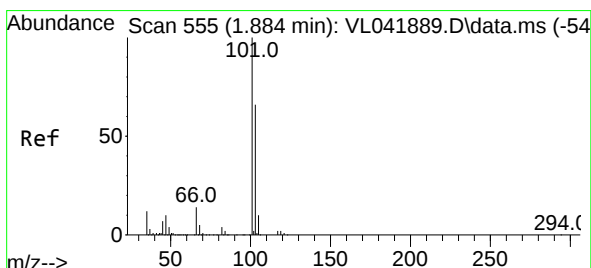
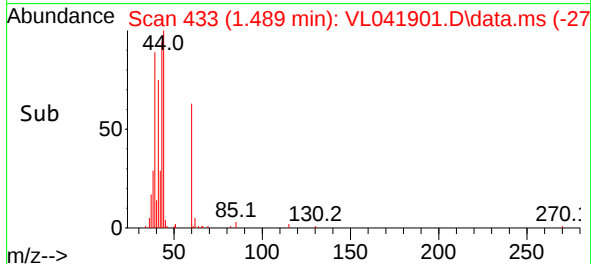
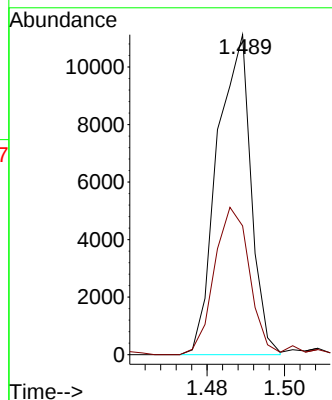
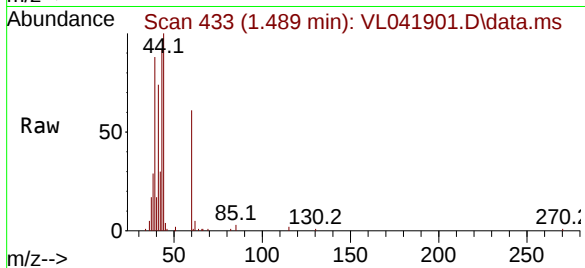
ClientSampleId :

Tgt Ion: 41 Resp: 6720

Ion Ratio Lower Upper

41 100

42 50.5 52.0 78.0#



#11

Trichlorofluoromethane

Concen: 0.223 ppbv

RT: 1.881 min Scan# 554

Delta R.T. -0.003 min

Lab File: VL041901.D

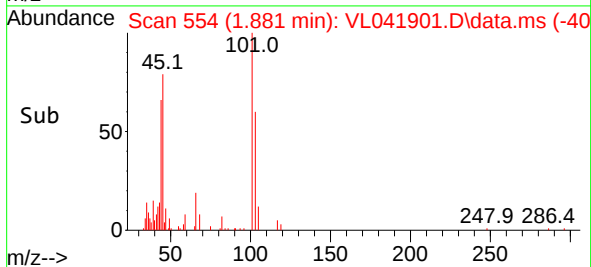
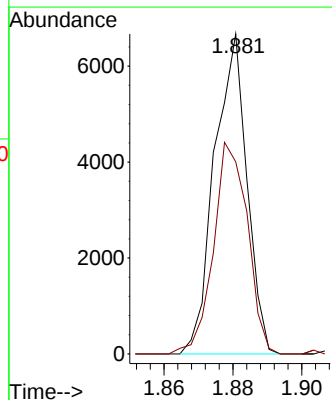
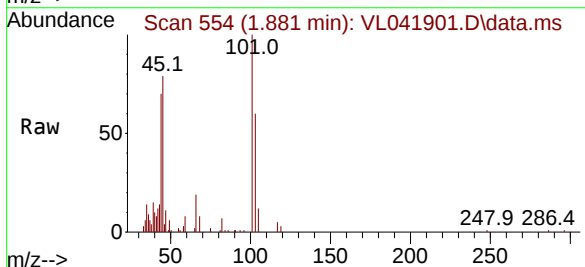
Acq: 14 Jan 2025 20:40

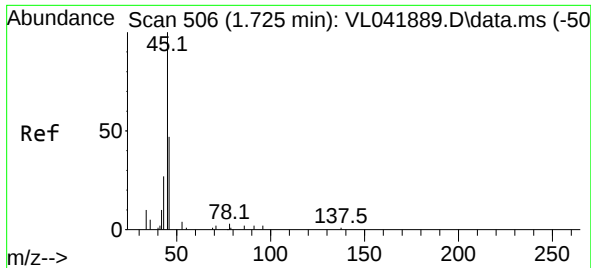
Tgt Ion:101 Resp: 4357

Ion Ratio Lower Upper

101 100

103 60.1 53.1 79.7

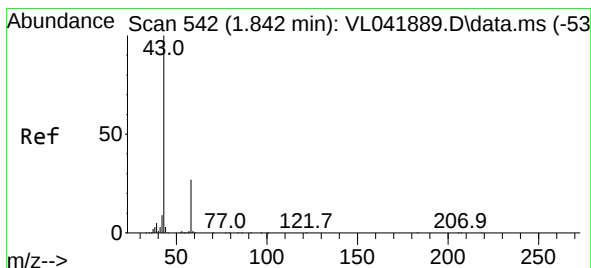
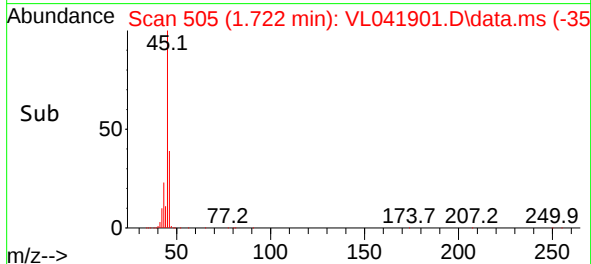
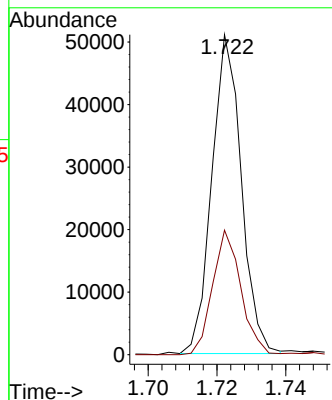
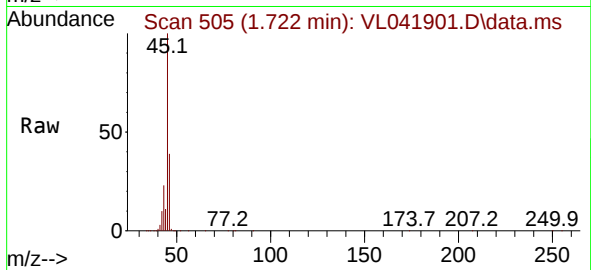




#13
 Ethanol
 Concen: 51.014 ppbv
 RT: 1.722 min Scan# 50
 Delta R.T. -0.003 min
 Lab File: VL041901.D
 Acq: 14 Jan 2025 20:40

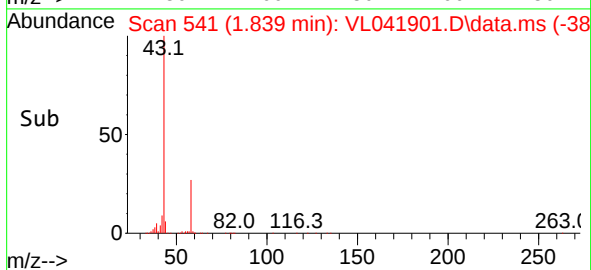
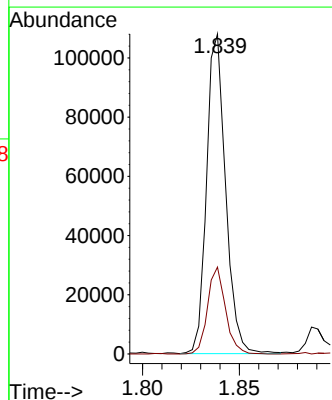
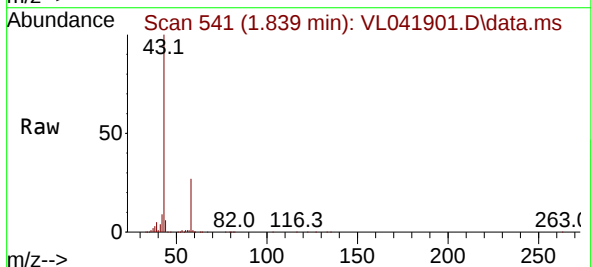
Instrument :
 MSVOA_L
 ClientSampleId :

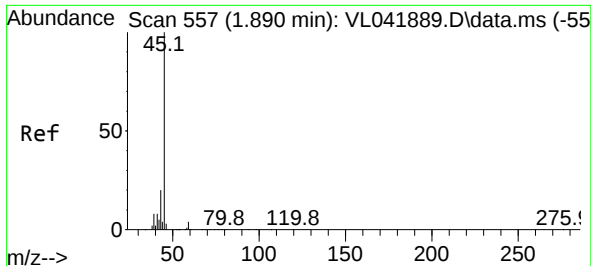
Tgt Ion: 45 Resp: 30323
 Ion Ratio Lower Upper
 45 100
 46 38.6 18.1 72.5



#15
 Acetone
 Concen: 4.467 ppbv
 RT: 1.839 min Scan# 541
 Delta R.T. -0.003 min
 Lab File: VL041901.D
 Acq: 14 Jan 2025 20:40

Tgt Ion: 43 Resp: 74062
 Ion Ratio Lower Upper
 43 100
 58 25.7 21.9 32.9

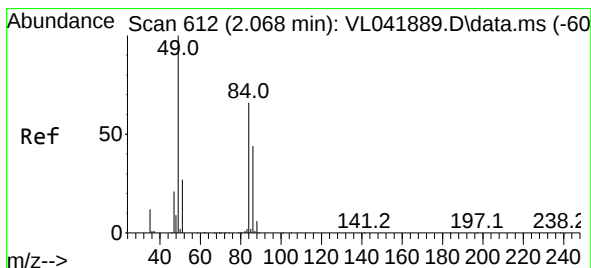
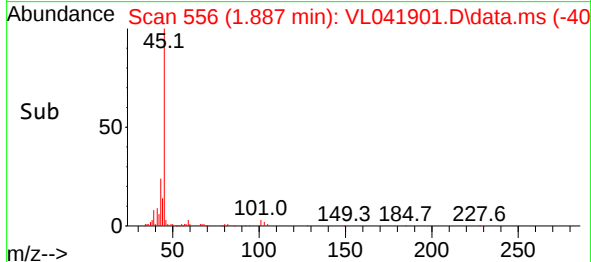
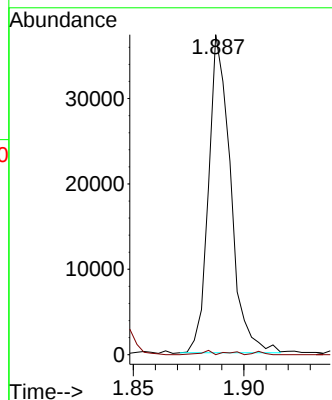
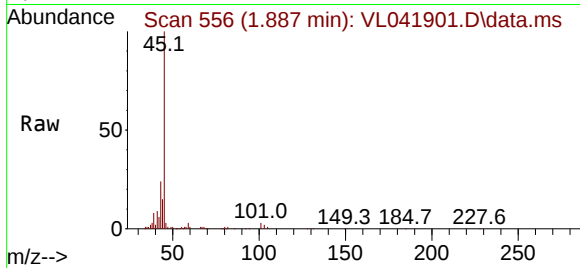




#19
Isopropyl Alcohol
Concen: 2.627 ppbv
RT: 1.887 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

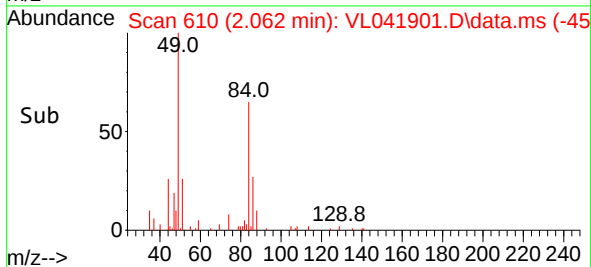
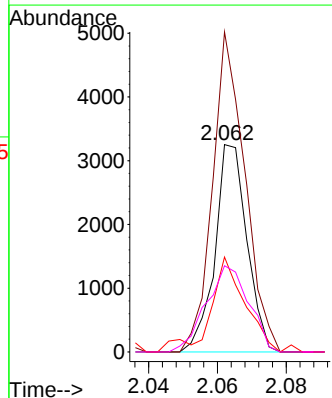
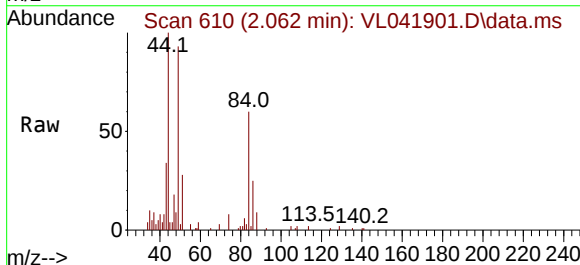
Instrument :
MSVOA_L
ClientSampleId :

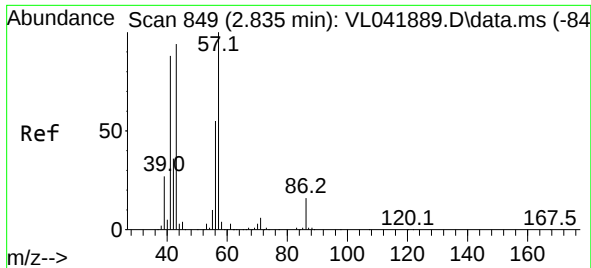
Tgt Ion: 45 Resp: 25827
Ion Ratio Lower Upper
45 100
58 73.6 35.0 52.6#



#20
Methylene Chloride
Concen: 0.321 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.006 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

Tgt Ion: 84 Resp: 2103
Ion Ratio Lower Upper
84 100
49 154.3 123.1 184.7
51 45.8 35.8 53.8
86 41.6 53.7 80.5#

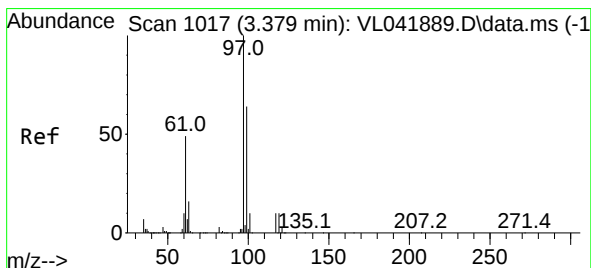
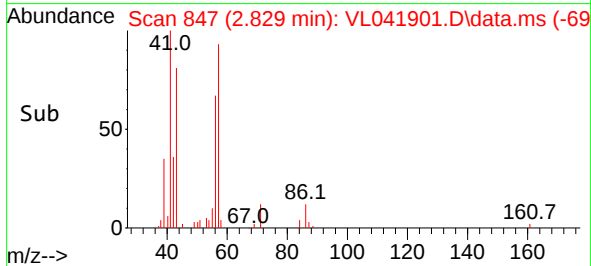
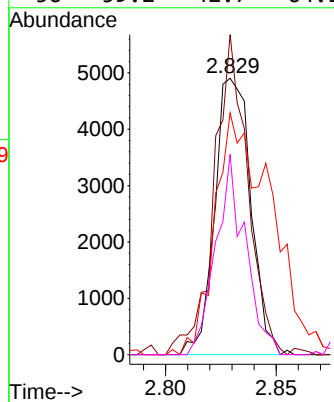
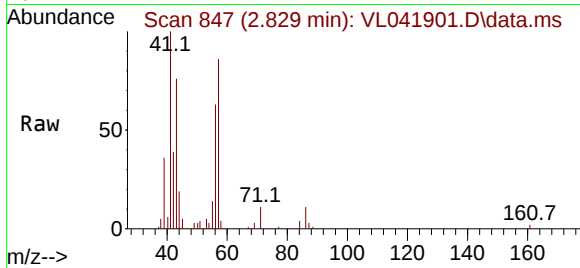




#26
Hexane
Concen: 0.315 ppbv
RT: 2.829 min Scan# 84
Delta R.T. -0.006 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

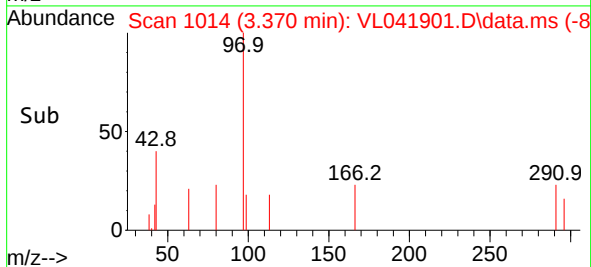
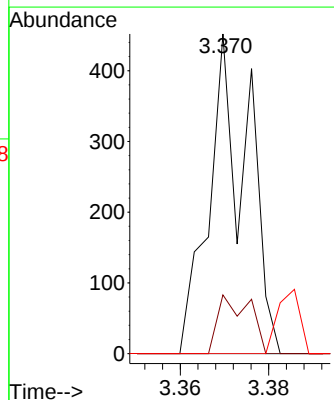
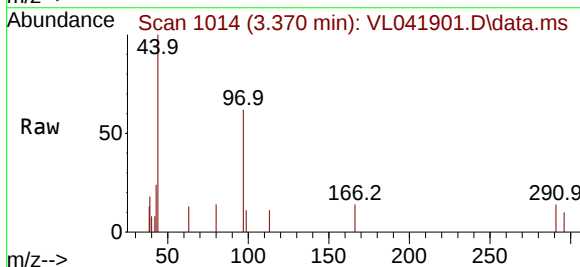
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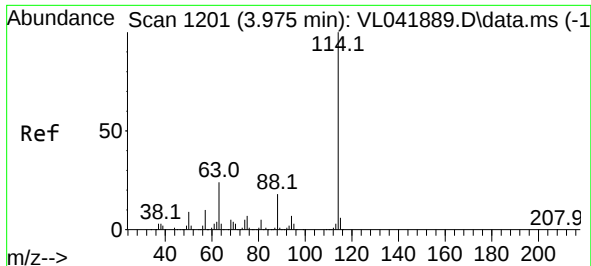
Tgt Ion: 57 Resp: 5562
Ion Ratio Lower Upper
57 100
41 109.0 73.8 110.8
43 139.0 197.3 295.9#
56 59.2 42.7 64.1



#32
1,1,1-Trichloroethane
Concen: 0.010 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. -0.010 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

Tgt Ion: 97 Resp: 272
Ion Ratio Lower Upper
97 100
99 15.1 51.1 76.7#
61 11.8 39.0 58.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.010 min

Lab File: VL041901.D

Acq: 14 Jan 2025 20:40

Instrument :

MSVOA_L

ClientSampleId :

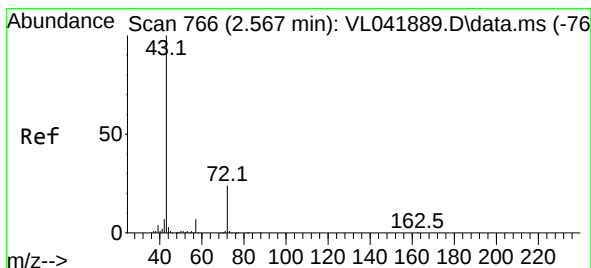
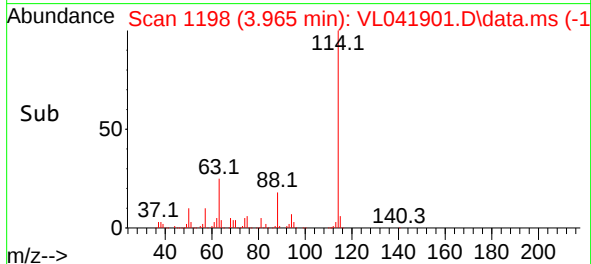
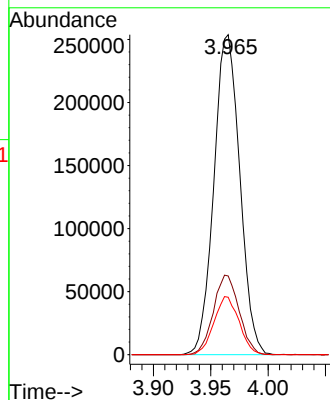
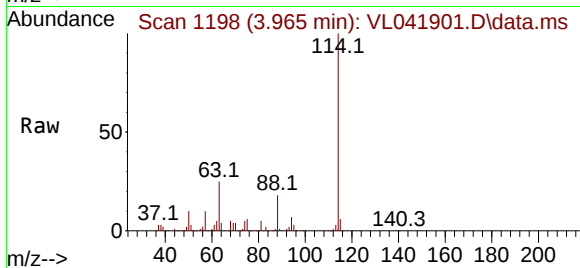
Tgt Ion:114 Resp: 398730

Ion Ratio Lower Upper

114 100

63 24.7 19.8 29.6

88 17.6 14.4 21.6



#34

2-Butanone

Concen: 1.187 ppbv

RT: 2.564 min Scan# 765

Delta R.T. -0.003 min

Lab File: VL041901.D

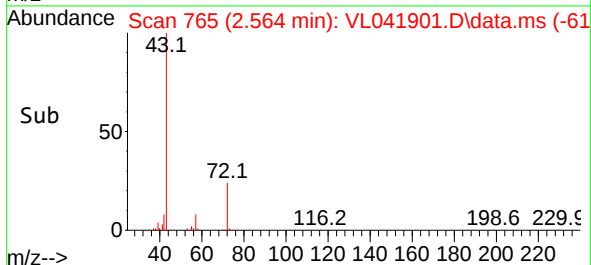
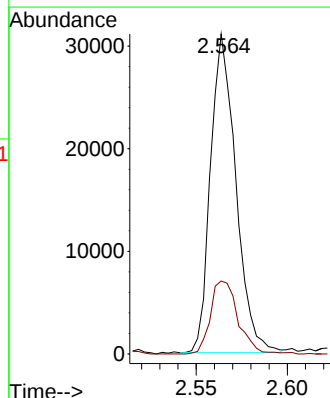
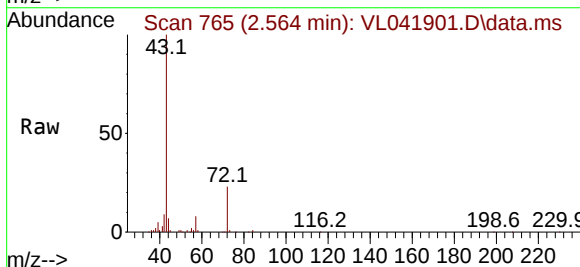
Acq: 14 Jan 2025 20:40

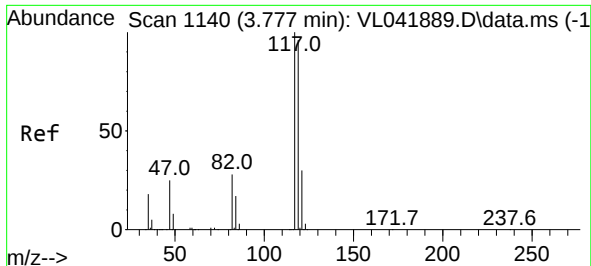
Tgt Ion: 43 Resp: 30106

Ion Ratio Lower Upper

43 100

72 25.0 18.6 28.0

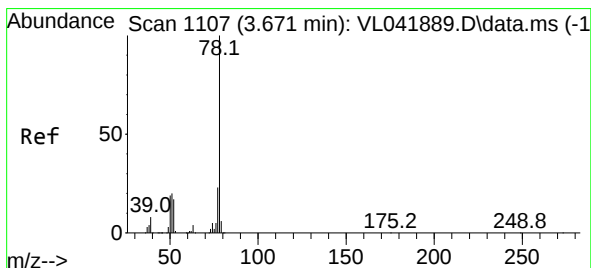
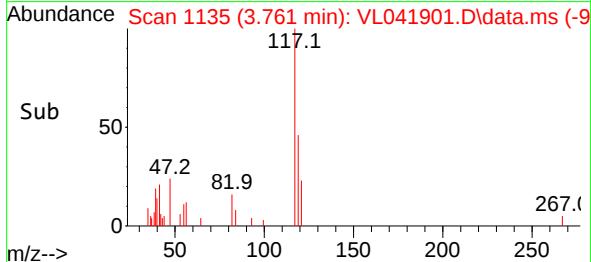
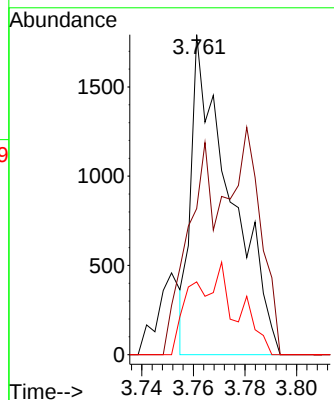
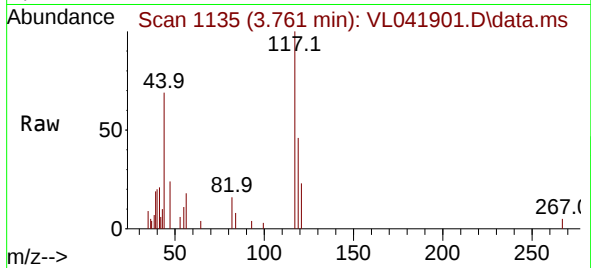




#35
Carbon Tetrachloride
Concen: 0.075 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.016 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

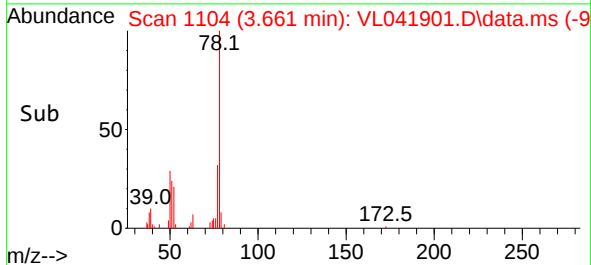
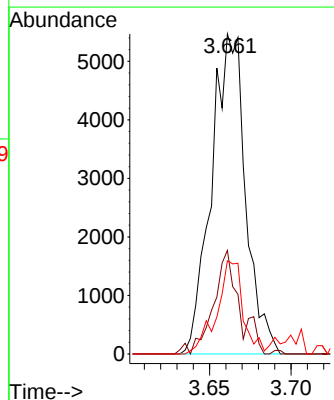
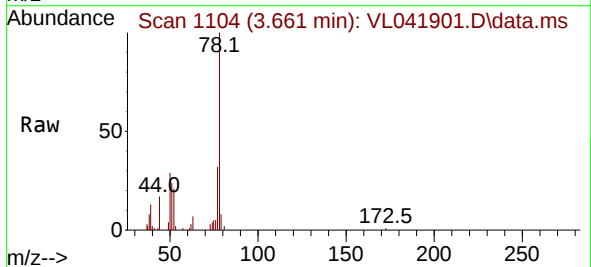
Instrument :
MSVOA_L
ClientSampleId :

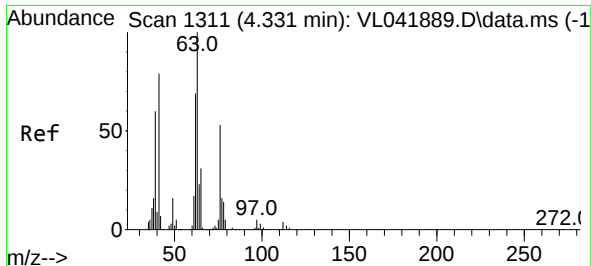
Tgt Ion:117 Resp: 1875
Ion Ratio Lower Upper
117 100
119 45.6 76.9 115.3#
121 22.8 23.8 35.6#



#36
Benzene
Concen: 0.218 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. -0.010 min
Lab File: VL041901.D
Acq: 14 Jan 2025 20:40

Tgt Ion: 78 Resp: 7984
Ion Ratio Lower Upper
78 100
77 31.2 18.1 27.1#
50 29.1 15.2 22.8#





#39

1,2-Dichloropropane

Concen: 7.663 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.369 min

Lab File: VL041901.D

Acq: 14 Jan 2025 20:40

Instrument :

MSVOA_L

ClientSampleId :

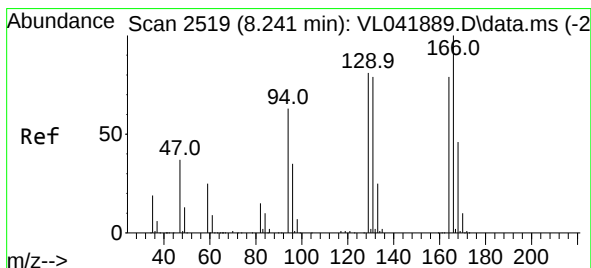
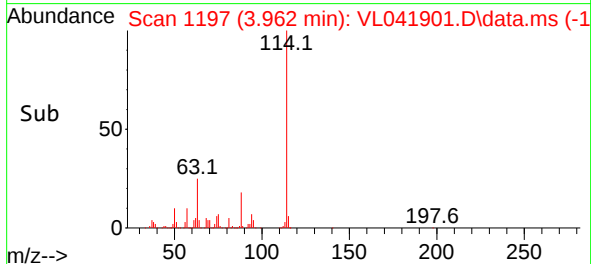
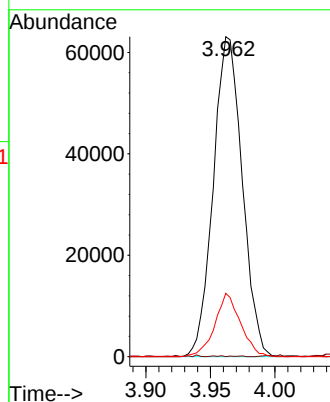
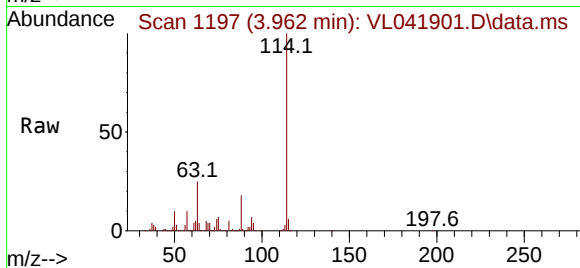
Tgt Ion: 63 Resp: 98297

Ion Ratio Lower Upper

63 100

41 0.0 63.7 95.5#

62 19.8 55.4 83.2#



#52

Tetrachloroethene

Concen: 0.062 ppbv

RT: 8.228 min Scan# 2515

Delta R.T. -0.013 min

Lab File: VL041901.D

Acq: 14 Jan 2025 20:40

Tgt Ion:164 Resp: 786

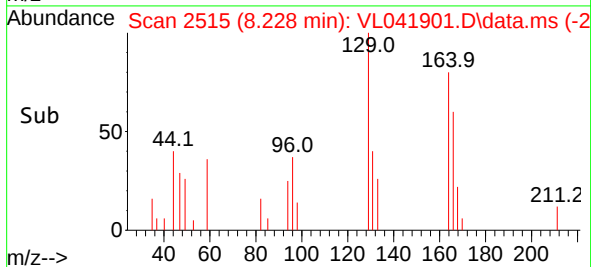
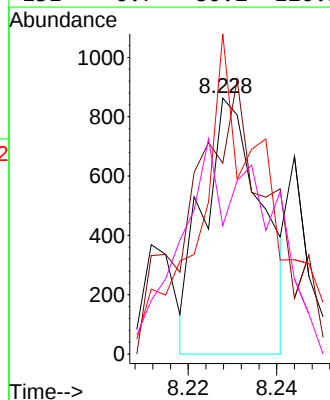
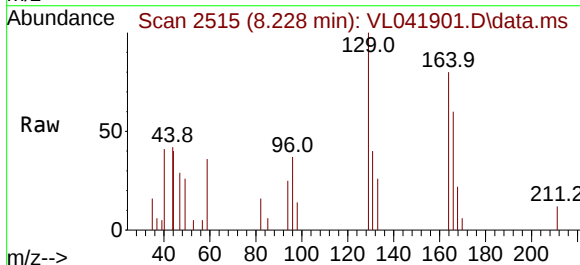
Ion Ratio Lower Upper

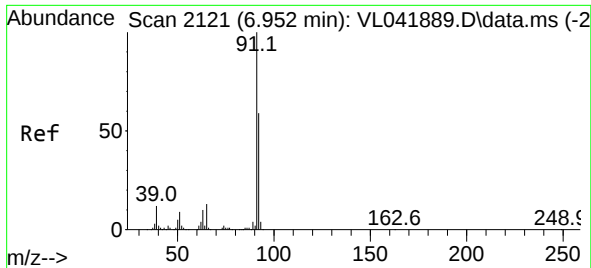
164 100

166 50.4 100.8 151.2#

129 104.9 82.0 123.0

131 6.7 80.2 120.2#





#53

Toluene

Concen: 0.677 ppbv

RT: 6.940 min Scan# 21

Delta R.T. -0.013 min

Lab File: VL041901.D

Acq: 14 Jan 2025 20:40

Instrument :

MSVOA_L

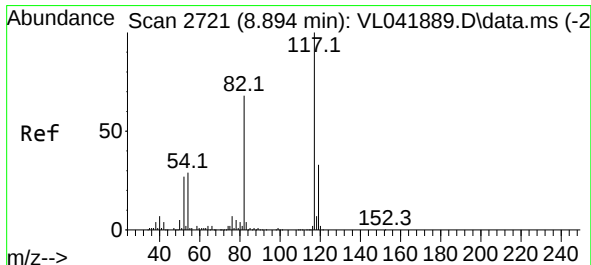
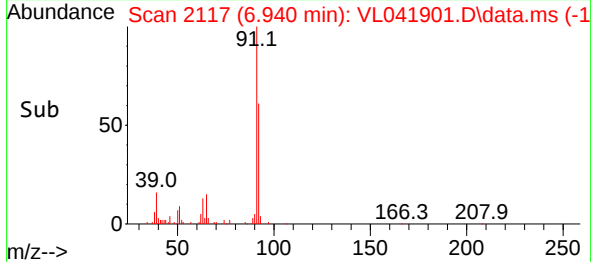
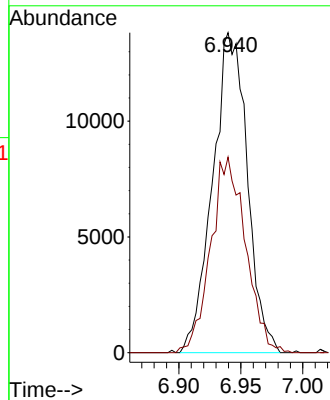
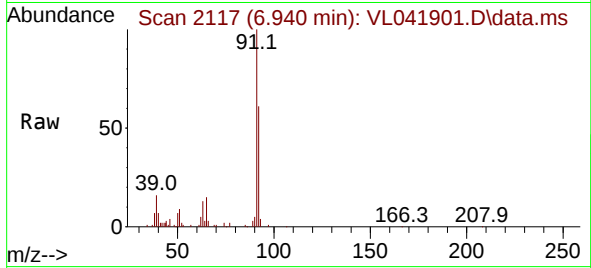
ClientSampleId :

Tgt Ion: 91 Resp: 26956

Ion Ratio Lower Upper

91 100

92 61.4 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2718

Delta R.T. -0.010 min

Lab File: VL041901.D

Acq: 14 Jan 2025 20:40

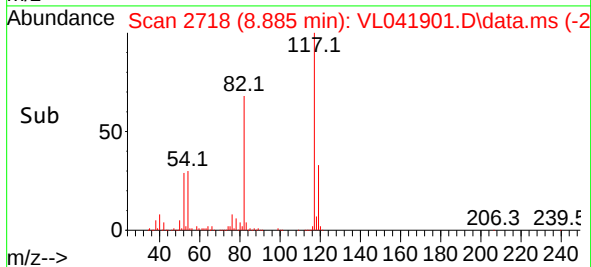
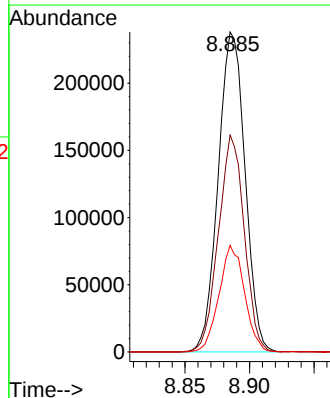
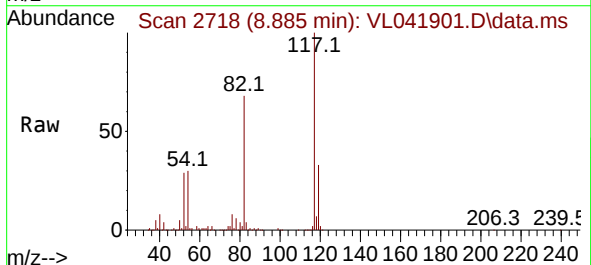
Tgt Ion: 117 Resp: 344203

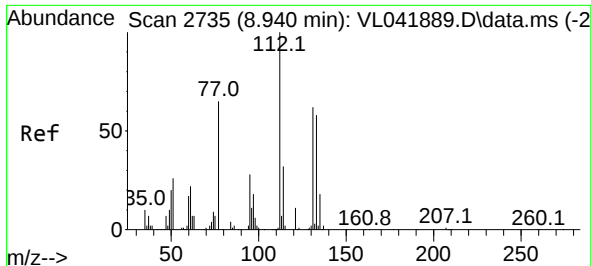
Ion Ratio Lower Upper

117 100

82 65.4 54.2 81.4

119 31.7 25.0 37.6

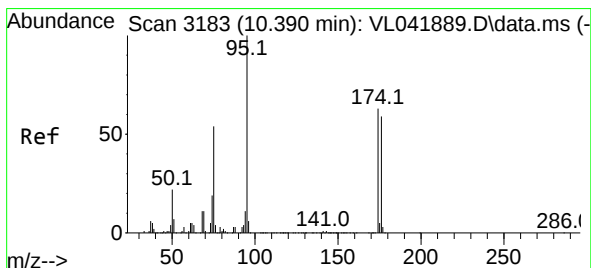
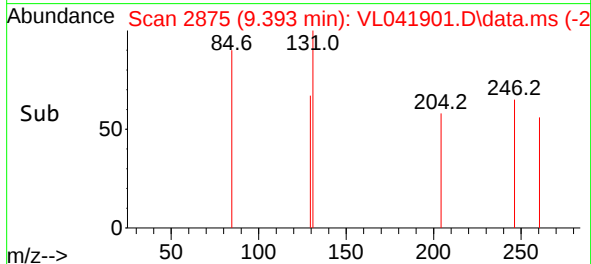
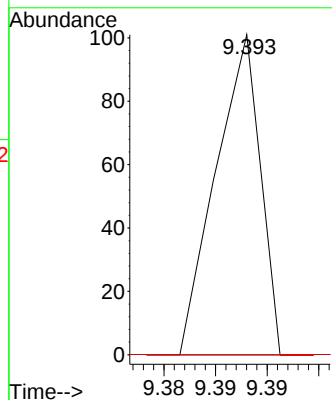
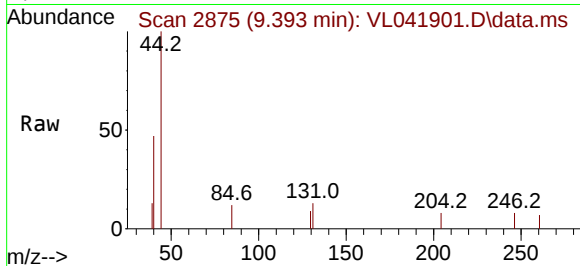




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.002 ppbv
 RT: 9.393 min Scan# 21
 Delta R.T. 0.453 min
 Lab File: VL041901.D
 Acq: 14 Jan 2025 20:40

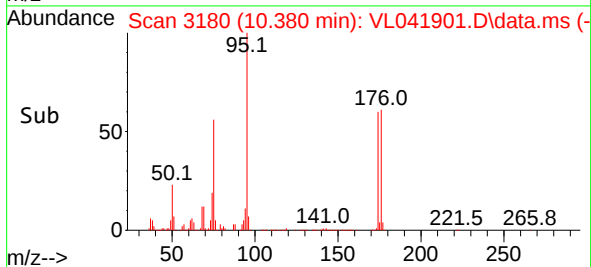
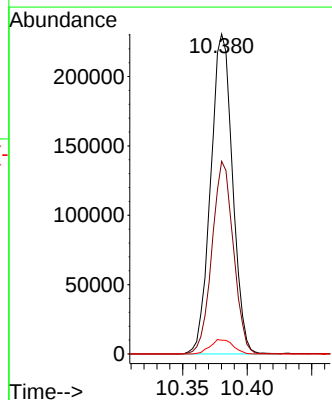
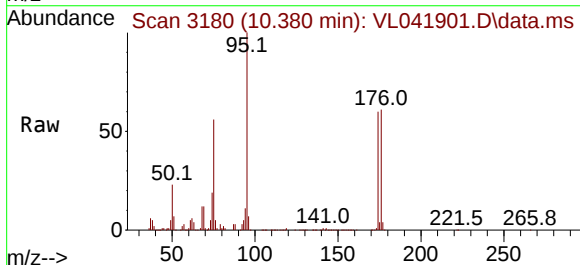
Instrument :
 MSVOA_L
 ClientSampleId :

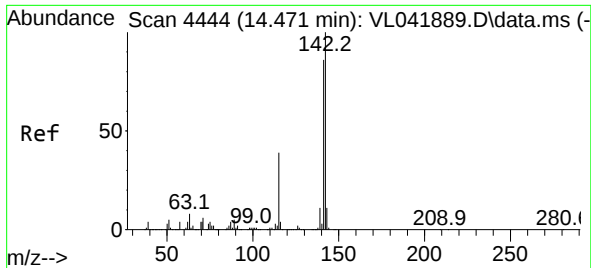
Tgt Ion:131 Resp: 30
 Ion Ratio Lower Upper
 131 100
 133 0.0 76.0 114.0#
 119 0.0 49.7 74.5#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.013 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. -0.010 min
 Lab File: VL041901.D
 Acq: 14 Jan 2025 20:40

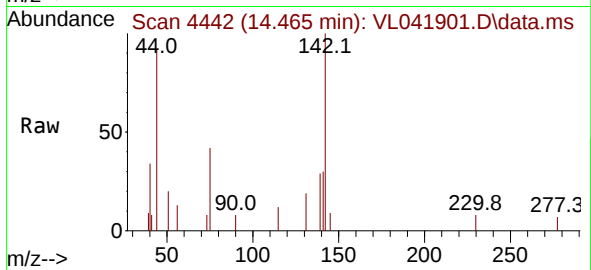
Tgt Ion: 95 Resp: 271467
 Ion Ratio Lower Upper
 95 100
 174 59.0 49.0 73.4
 175 4.7 3.8 5.8





#80
 Naphthalene, 2-methyl-
 Concen: 0.024 ppbv
 RT: 14.465 min Scan# 44
 Delta R.T. -0.006 min
 Lab File: VL041901.D
 Acq: 14 Jan 2025 20:40

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	142	Resp:	569
Ion	Ratio	Lower	Upper
142	100		
141	77.0	68.1	102.1
115	33.4	31.7	47.5

