

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
 Data File : VL041952.D
 Acq On : 27 Jan 2025 15:09
 Operator : SY/MD
 Sample : Q1168-13 0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 28 02:38:33 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

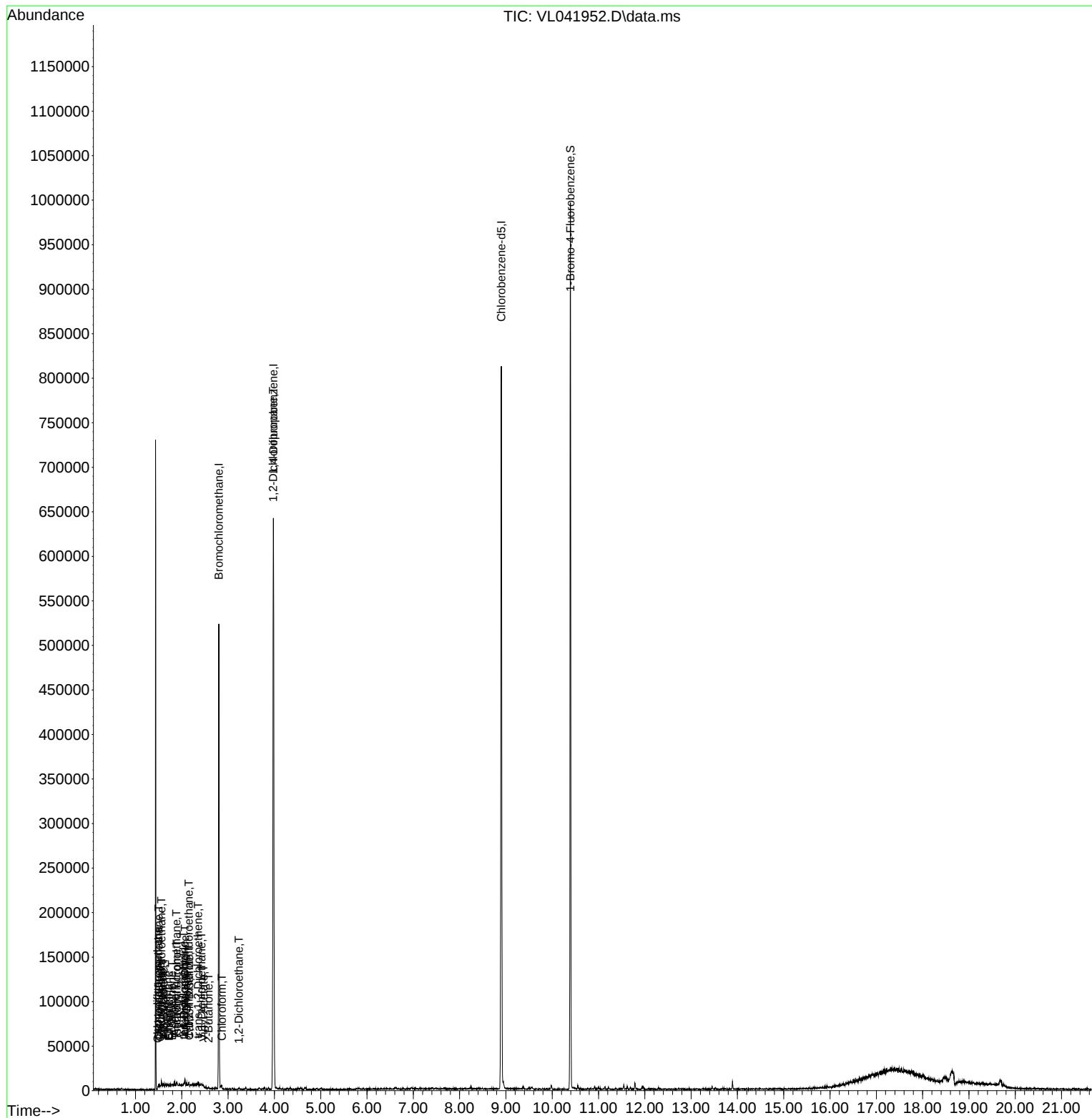
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

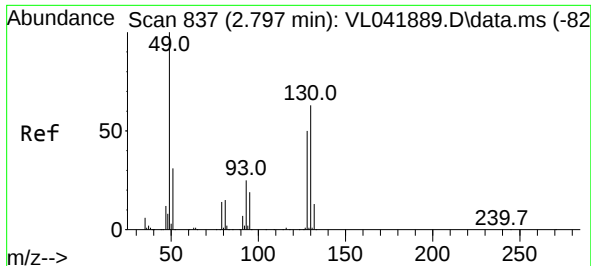
Internal Standards						
1) Bromochloromethane	2.800	49	137954	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	379662	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	326389	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	246054	9.571	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	669	0.036	ppbv	89
3) Chlorodifluoromethane	1.479	51	792	0.040	ppbv	94
4) Chloromethane	1.538	50	317	0.045	ppbv	93
5) Vinyl Chloride	1.586	62	298	0.042	ppbv #	63
7) Chloroethane	1.709	64	93	0.033	ppbv #	56
8) Dichlorotetrafluoroethane	1.560	85	629	0.038	ppbv #	82
9) Propene	1.654	41	253	0.031	ppbv	85
11) Trichlorofluoromethane	1.884	101	822	0.042	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.149	101	611	0.040	ppbv	85
13) Ethanol	1.722	45	157	0.264	ppbv	88
14) Bromoethene	1.790	108	212	0.038	ppbv #	30
15) Acetone	1.845	43	2298	0.139	ppbv	98
16) 1,3-Butadiene	1.612	39	485	0.065	ppbv #	77
17) tert-Butyl alcohol	2.049	59	1032	0.051	ppbv #	80
18) 1,1-Dichloroethene	2.046	96	221	0.032	ppbv #	94
19) Isopropyl Alcohol	1.894	45	1644	0.167	ppbv #	39
20) Methylene Chloride	2.069	84	1020	0.156	ppbv #	55
21) Allyl Chloride	2.104	41	380	0.033	ppbv #	1
22) trans-1,2-Dichloroethene	2.353	96	379	0.049	ppbv #	57
23) Vinyl Acetate	2.470	43	451	0.055	ppbv #	78
24) 1,1-Dichloroethane	2.425	63	717	0.048	ppbv #	87
27) Carbon Disulfide	2.159	76	598	0.034	ppbv #	67
29) Chloroform	2.865	83	1058	0.038	ppbv #	48
34) 2-Butanone	2.577	43	1056	0.044	ppbv	91
37) 1,2-Dichloroethane	3.231	62	750	0.038	ppbv #	80
39) 1,2-Dichloropropane	3.975	63	92014	7.533	ppbv #	21

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

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Jan 28 02:38:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
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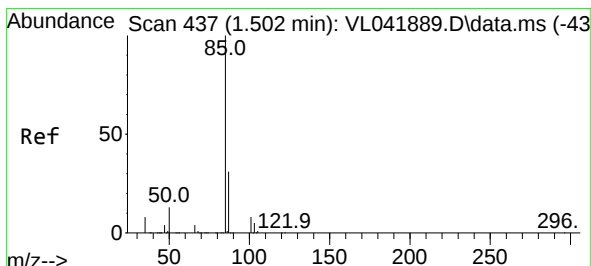
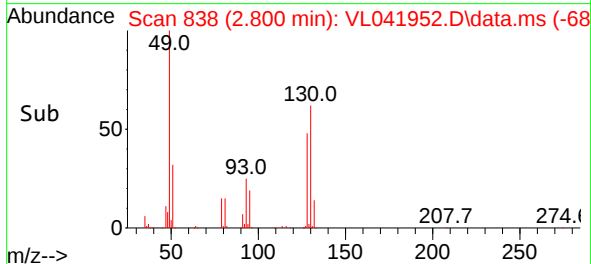
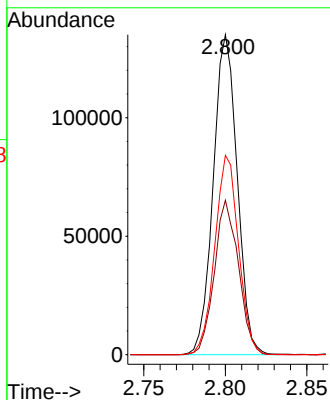
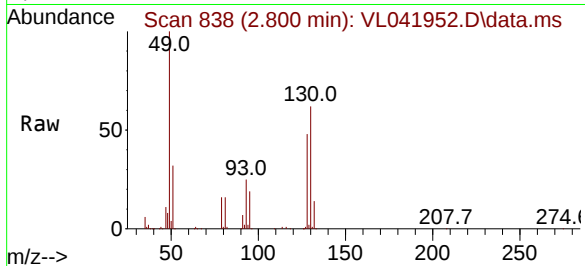




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 837
Delta R.T. 0.003 min
Lab File: VL041952.D
Acq: 27 Jan 2025 15:09

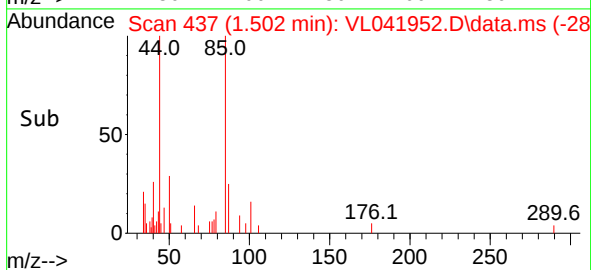
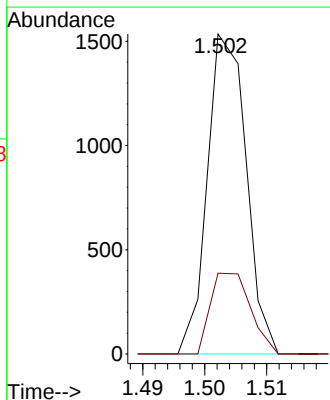
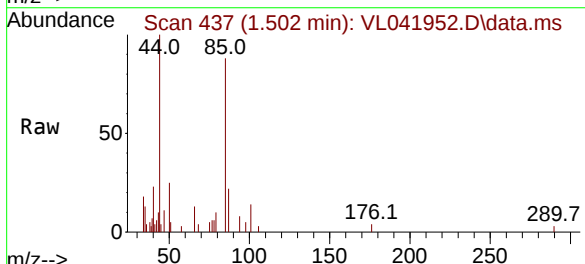
Instrument :
MSVOA_L
ClientSampleId :

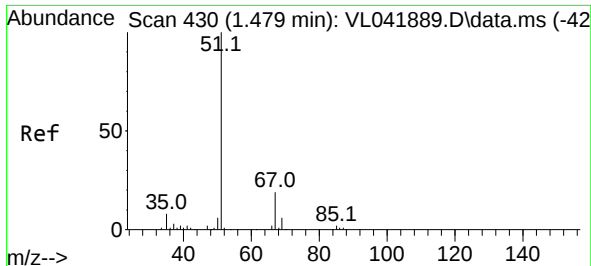
Tgt Ion: 49 Resp: 137954
Ion Ratio Lower Upper
49 100
128 48.7 24.3 73.0
130 61.7 31.1 93.2



#2
Dichlorodifluoromethane
Concen: 0.036 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL041952.D
Acq: 27 Jan 2025 15:09

Tgt Ion: 85 Resp: 669
Ion Ratio Lower Upper
85 100
87 25.3 24.9 37.3

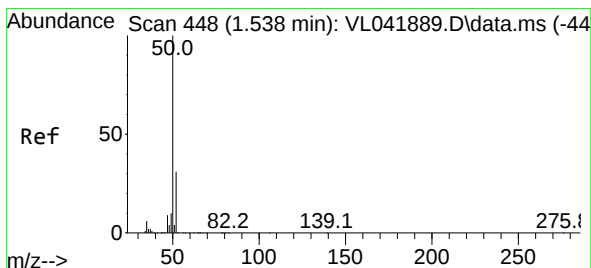
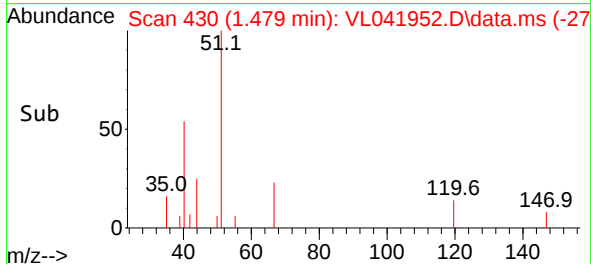
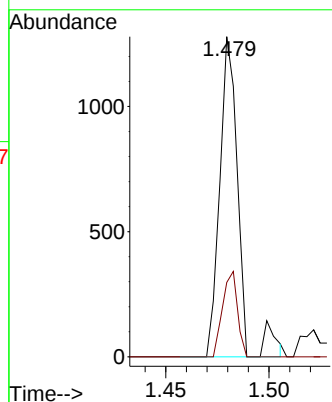
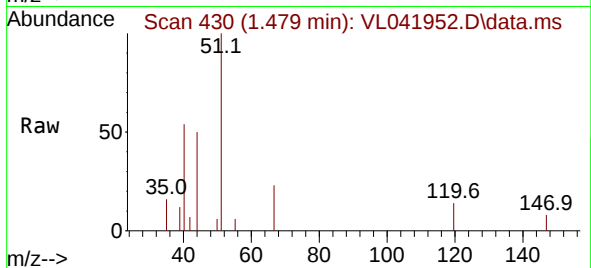




#3
Chlorodifluoromethane
Concen: 0.040 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041952.D
Acq: 27 Jan 2025 15:09

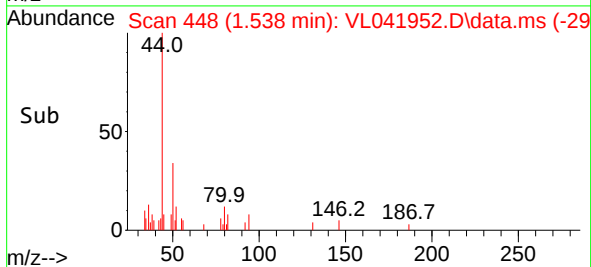
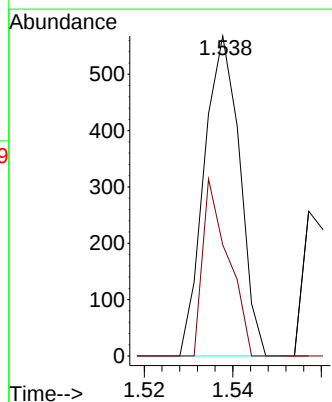
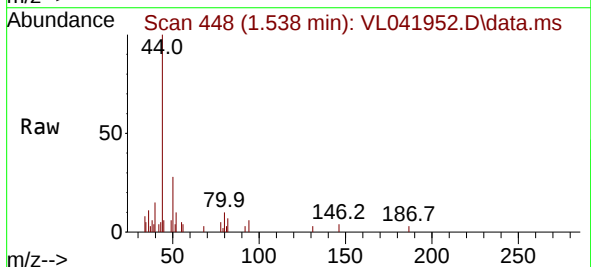
Instrument :
MSVOA_L
ClientSampleId :

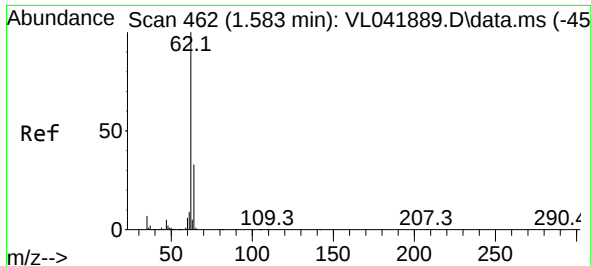
Tgt Ion: 51 Resp: 792
Ion Ratio Lower Upper
51 100
67 21.6 15.0 22.4



#4
Chloromethane
Concen: 0.045 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.000 min
Lab File: VL041952.D
Acq: 27 Jan 2025 15:09

Tgt Ion: 50 Resp: 317
Ion Ratio Lower Upper
50 100
52 34.7 24.6 36.8

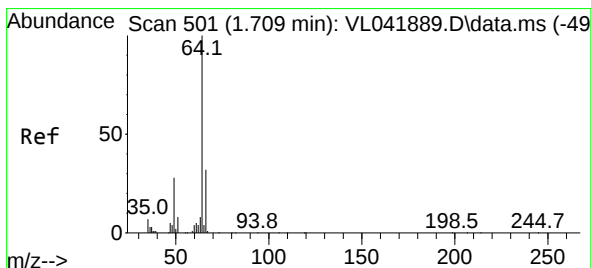
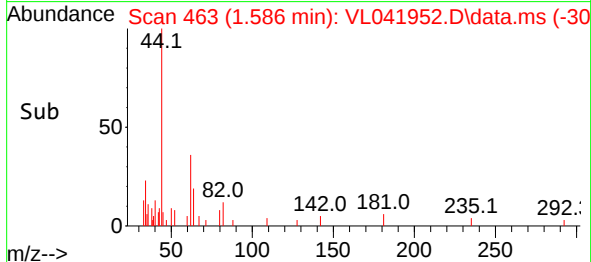
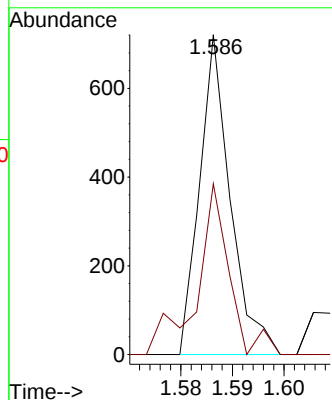
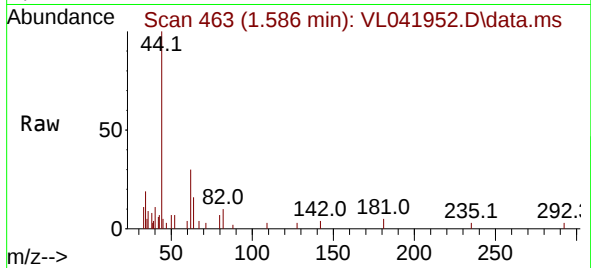




#5
 Vinyl Chloride
 Concen: 0.042 ppbv
 RT: 1.586 min Scan# 463
 Delta R.T. 0.003 min
 Lab File: VL041952.D
 Acq: 27 Jan 2025 15:09

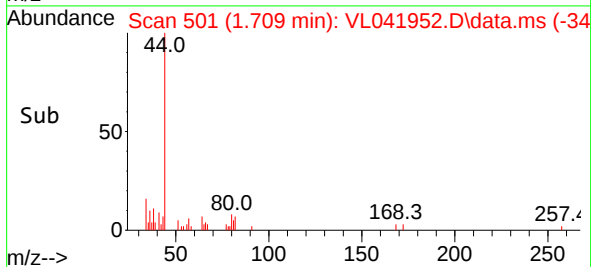
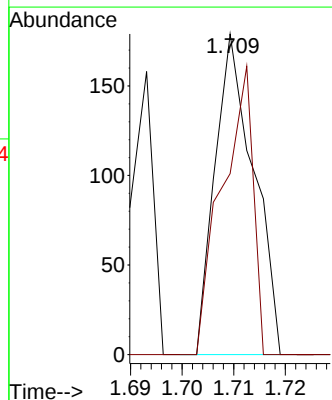
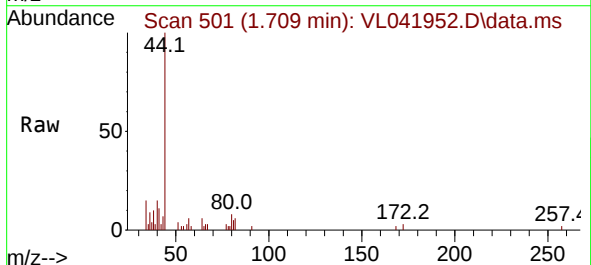
Instrument :
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 ClientSampleId :

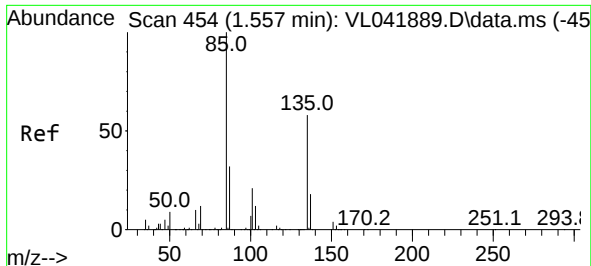
Tgt Ion: 62 Resp: 298
 Ion Ratio Lower Upper
 62 100
 64 53.4 26.1 39.1#



#7
 Chloroethane
 Concen: 0.033 ppbv
 RT: 1.709 min Scan# 501
 Delta R.T. 0.000 min
 Lab File: VL041952.D
 Acq: 27 Jan 2025 15:09

Tgt Ion: 64 Resp: 93
 Ion Ratio Lower Upper
 64 100
 66 56.4 25.7 38.5#

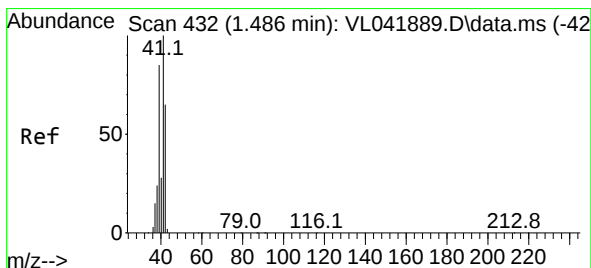
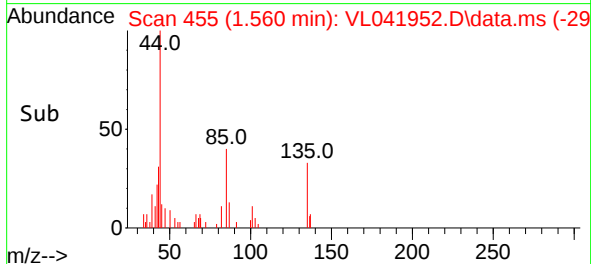
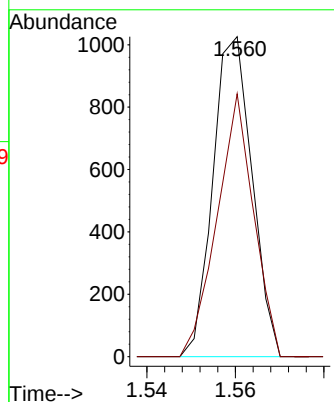
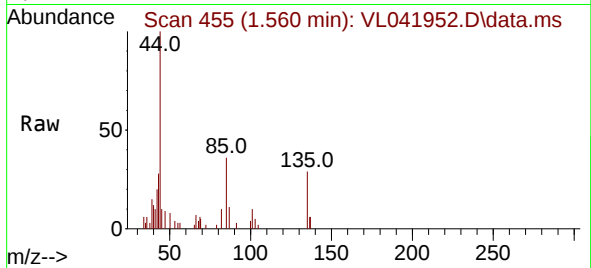




#8
 Dichlorotetrafluoroethane
 Concen: 0.038 ppbv
 RT: 1.560 min Scan# 413
 Delta R.T. 0.003 min
 Lab File: VL041952.D
 Acq: 27 Jan 2025 15:09

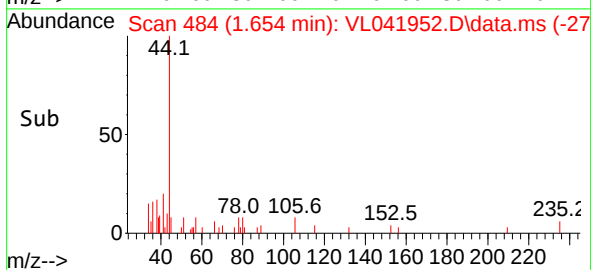
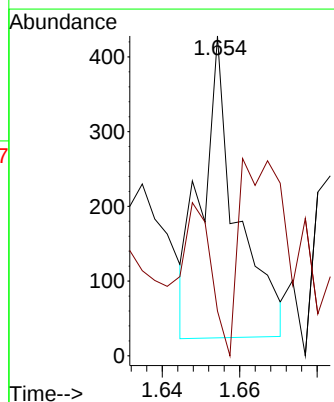
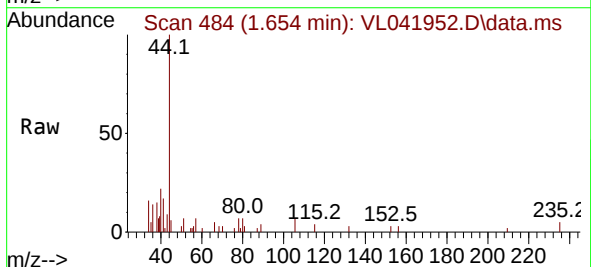
Instrument :
 MSVOA_L
 ClientSampleId :

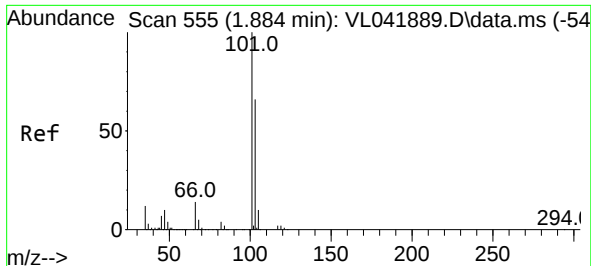
Tgt Ion: 85 Resp: 629
 Ion Ratio Lower Upper
 85 100
 135 76.8 50.0 75.0#



#9
 Propene
 Concen: 0.031 ppbv
 RT: 1.654 min Scan# 484
 Delta R.T. 0.168 min
 Lab File: VL041952.D
 Acq: 27 Jan 2025 15:09

Tgt Ion: 41 Resp: 253
 Ion Ratio Lower Upper
 41 100
 42 76.7 52.0 78.0

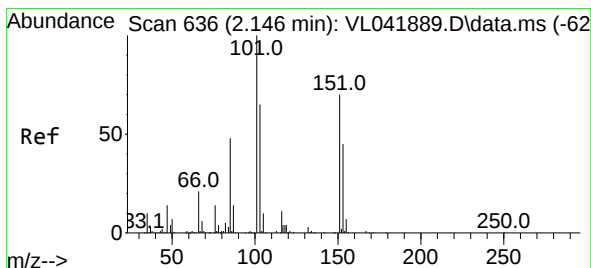
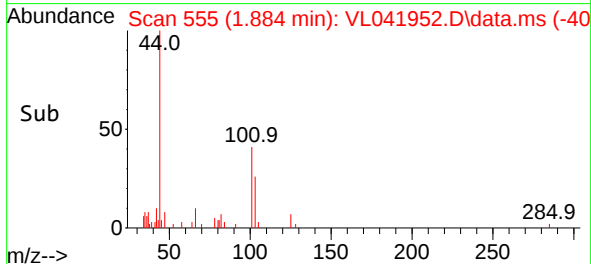
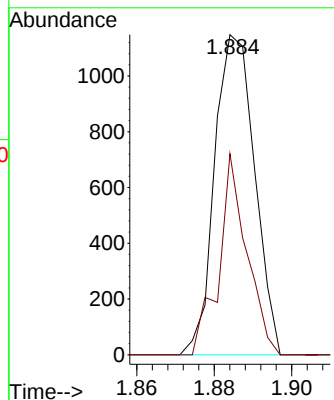
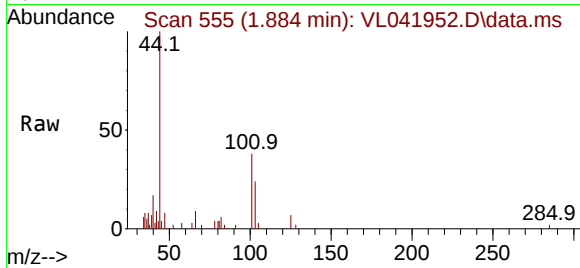




#11
 Trichlorofluoromethane
 Concen: 0.042 ppbv
 RT: 1.884 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL041952.D
 Acq: 27 Jan 2025 15:09

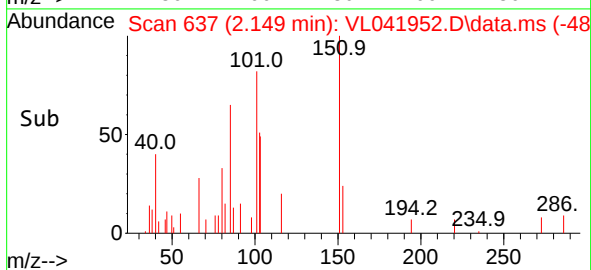
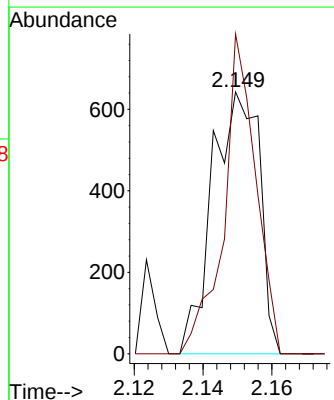
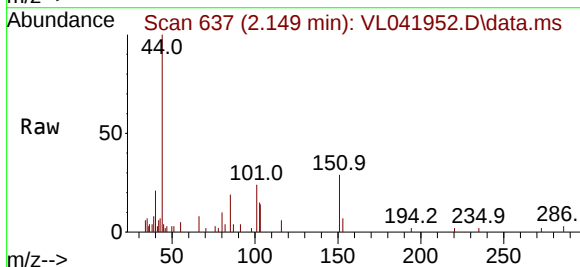
Instrument :
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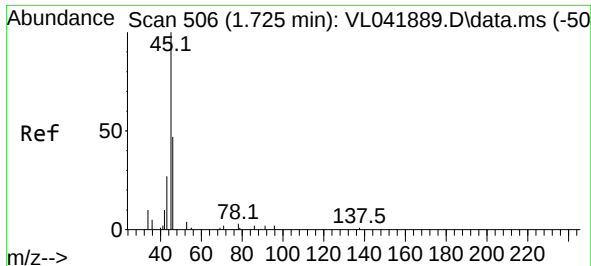
Tgt Ion:101 Resp: 822
 Ion Ratio Lower Upper
 101 100
 103 62.8 53.1 79.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.040 ppbv
 RT: 2.149 min Scan# 637
 Delta R.T. 0.003 min
 Lab File: VL041952.D
 Acq: 27 Jan 2025 15:09

Tgt Ion:101 Resp: 611
 Ion Ratio Lower Upper
 101 100
 151 82.8 56.1 84.1

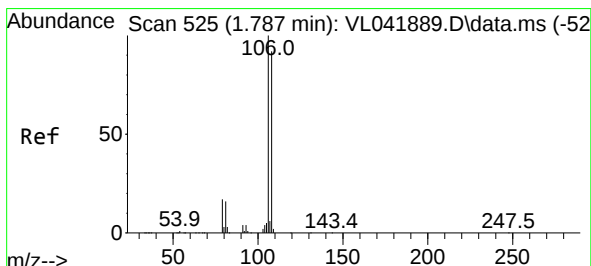
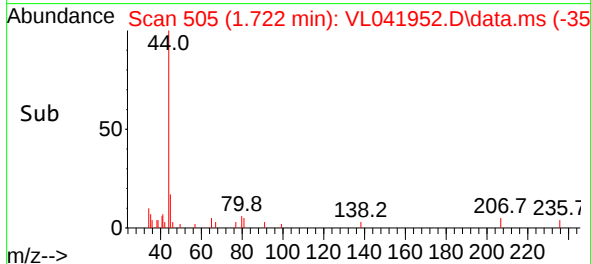
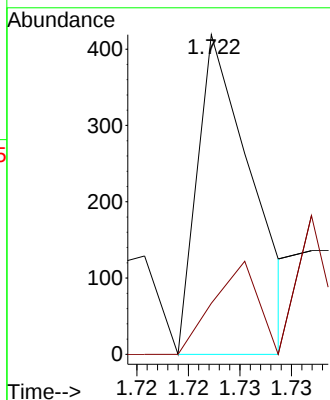
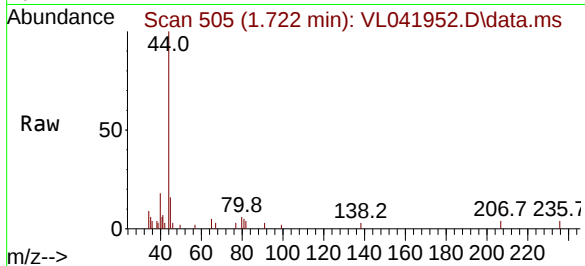




#13
 Ethanol
 Concen: 0.264 ppbv
 RT: 1.722 min Scan# 506
 Delta R.T. -0.003 min
 Lab File: VL041952.D
 Acq: 27 Jan 2025 15:09

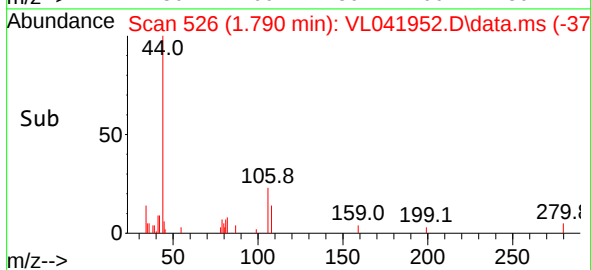
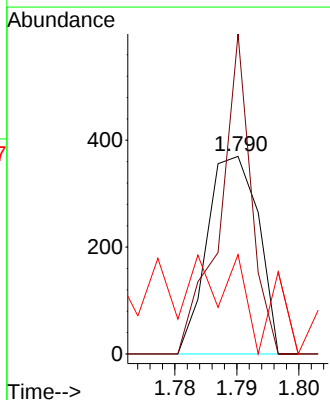
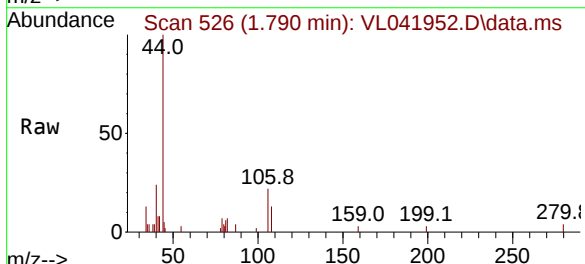
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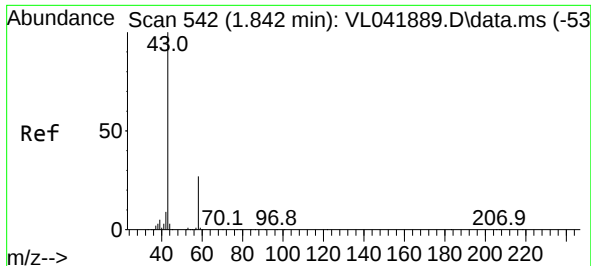
Tgt Ion: 45 Resp: 157
 Ion Ratio Lower Upper
 45 100
 46 52.9 18.1 72.5



#14
 Bromoethene
 Concen: 0.038 ppbv
 RT: 1.790 min Scan# 526
 Delta R.T. 0.003 min
 Lab File: VL041952.D
 Acq: 27 Jan 2025 15:09

Tgt Ion: 108 Resp: 212
 Ion Ratio Lower Upper
 108 100
 106 108.5 85.5 128.3
 79 225.0 15.3 22.9#





#15

Acetone

Concen: 0.139 ppbv

RT: 1.845 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL041952.D

Acq: 27 Jan 2025 15:09

Instrument :

MSVOA_L

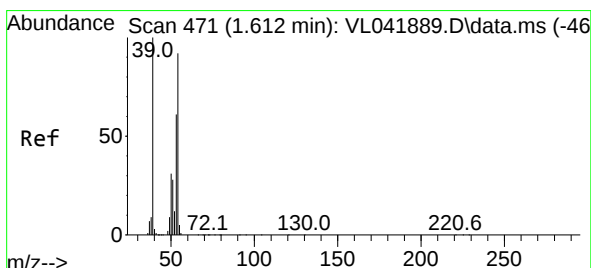
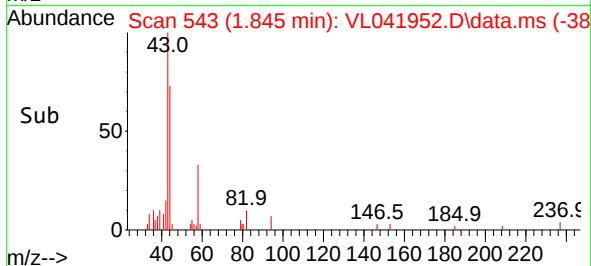
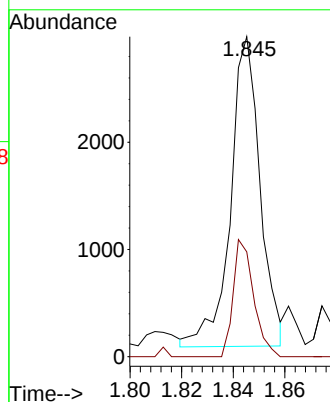
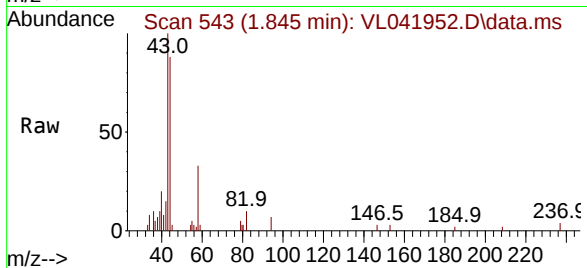
ClientSampleId :

Tgt Ion: 43 Resp: 2298

Ion Ratio Lower Upper

43 100

58 26.2 21.9 32.9



#16

1,3-Butadiene

Concen: 0.065 ppbv

RT: 1.612 min Scan# 471

Delta R.T. 0.000 min

Lab File: VL041952.D

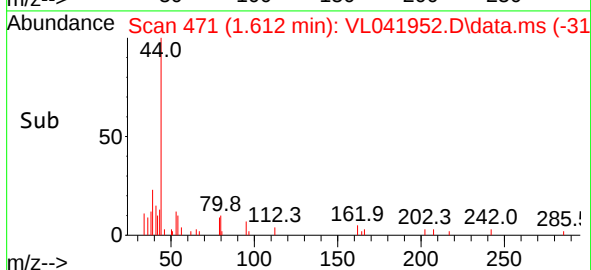
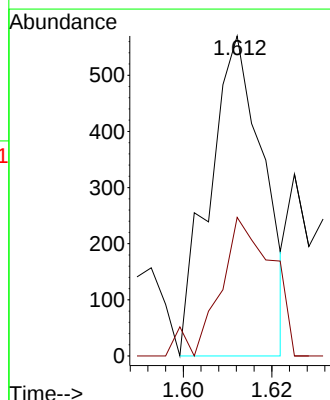
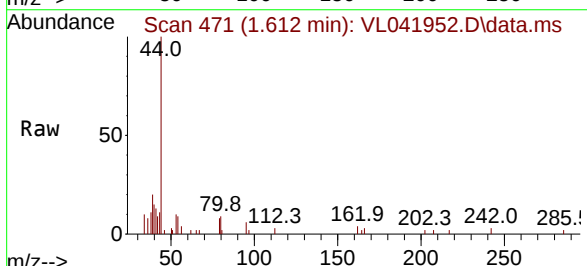
Acq: 27 Jan 2025 15:09

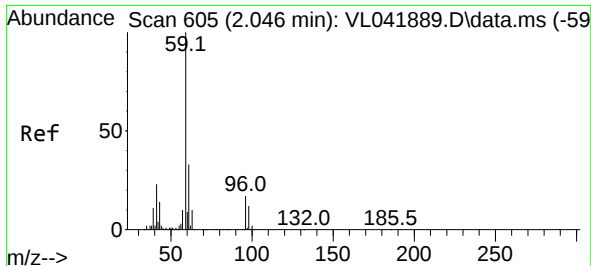
Tgt Ion: 39 Resp: 485

Ion Ratio Lower Upper

39 100

54 57.3 61.6 92.4#





#17

tert-Butyl alcohol

Concen: 0.051 ppbv

RT: 2.049 min Scan# 606

Delta R.T. 0.003 min

Lab File: VL041952.D

Acq: 27 Jan 2025 15:09

Instrument :

MSVOA_L

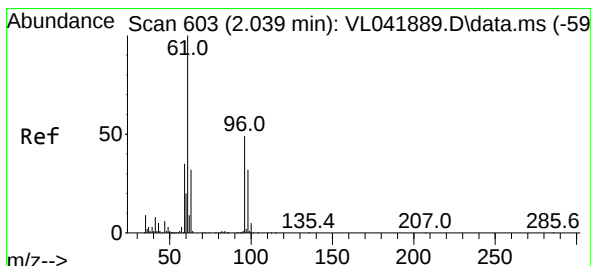
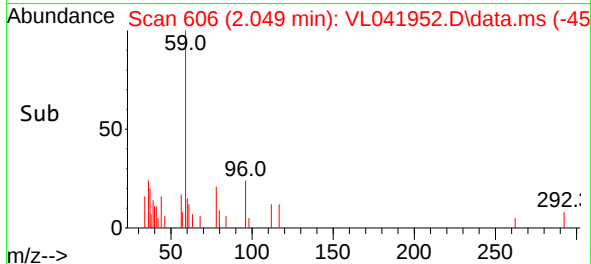
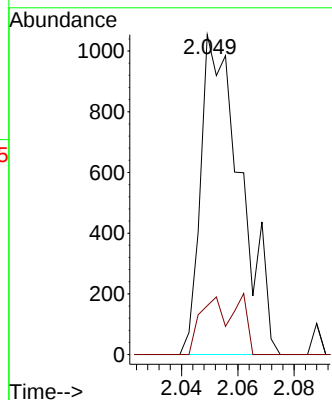
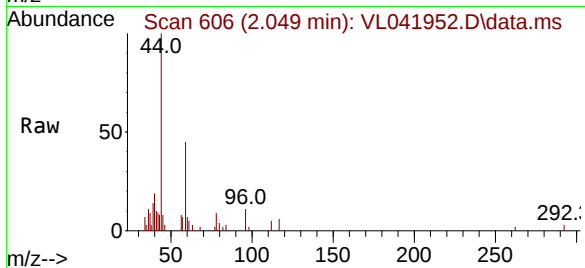
ClientSampleId :

Tgt Ion: 59 Resp: 1032

Ion Ratio Lower Upper

59 100

57 17.2 7.8 11.8#



#18

1,1-Dichloroethene

Concen: 0.032 ppbv

RT: 2.046 min Scan# 605

Delta R.T. 0.007 min

Lab File: VL041952.D

Acq: 27 Jan 2025 15:09

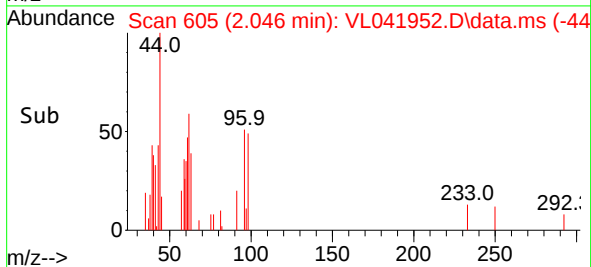
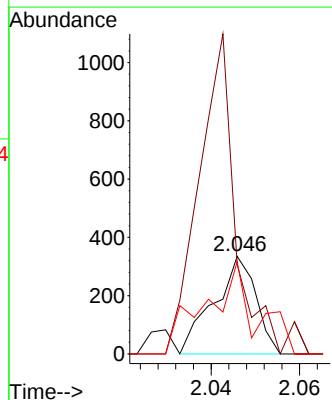
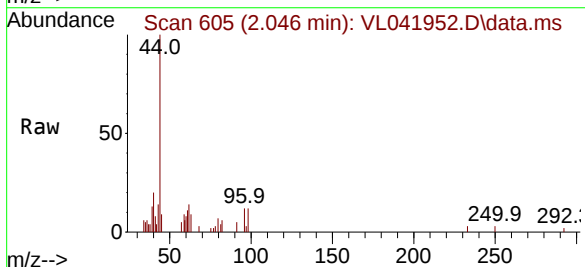
Tgt Ion: 96 Resp: 221

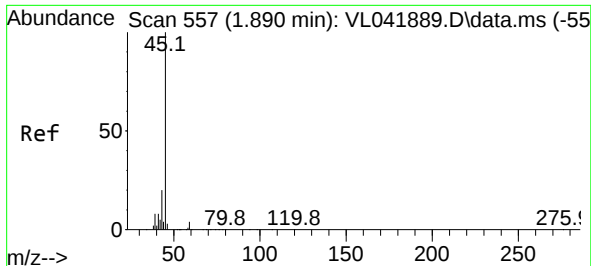
Ion Ratio Lower Upper

96 100

61 207.2 163.1 244.7

98 51.3 52.7 79.1#

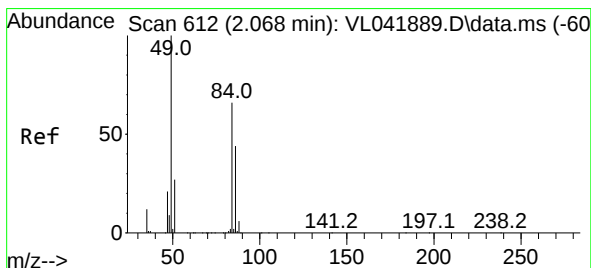
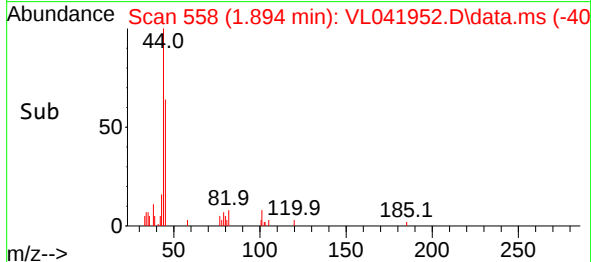
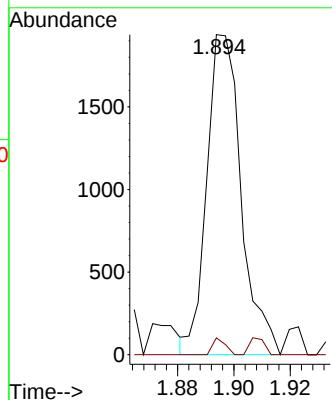
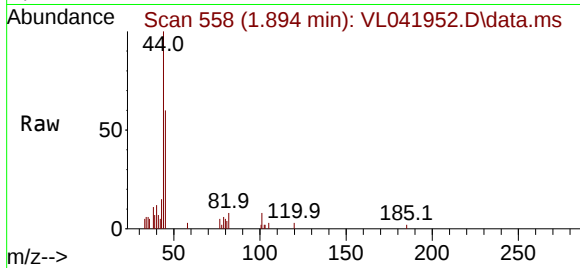




#19
Isopropyl Alcohol
Concen: 0.167 ppbv
RT: 1.894 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL041952.D
Acq: 27 Jan 2025 15:09

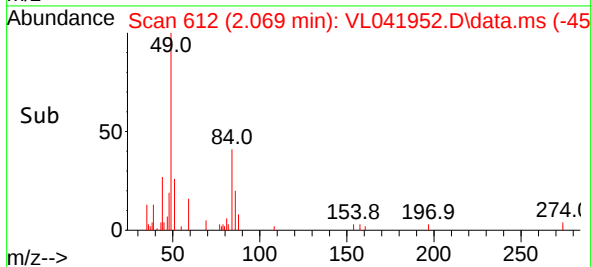
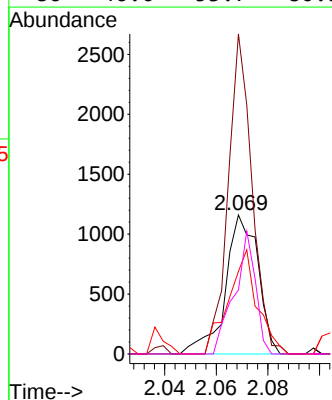
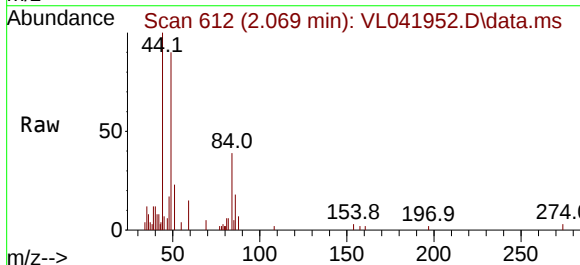
Instrument :
MSVOA_L
ClientSampleId :

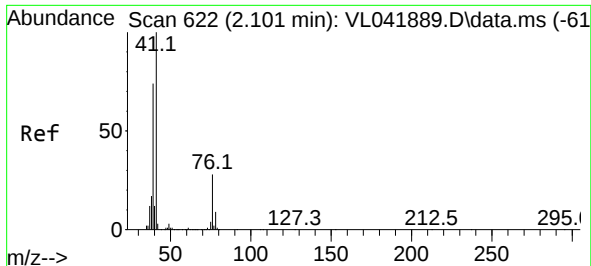
Tgt Ion: 45 Resp: 1644
Ion Ratio Lower Upper
45 100
58 4.2 35.0 52.6#



#20
Methylene Chloride
Concen: 0.156 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.000 min
Lab File: VL041952.D
Acq: 27 Jan 2025 15:09

Tgt Ion: 84 Resp: 1020
Ion Ratio Lower Upper
84 100
49 230.1 123.1 184.7#
51 59.3 35.8 53.8#
86 46.0 53.7 80.5#

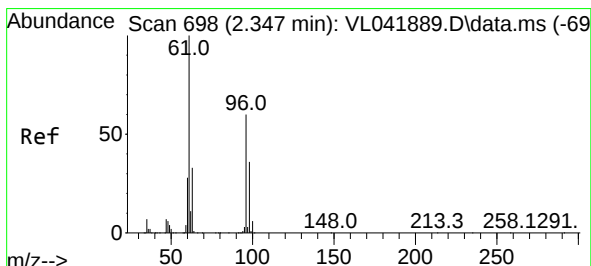
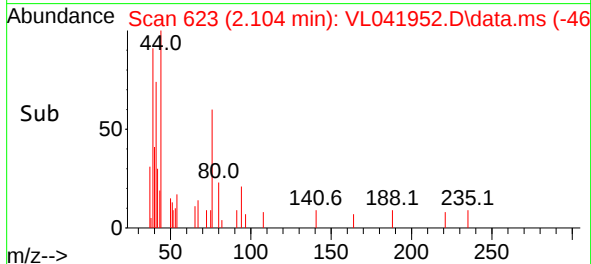
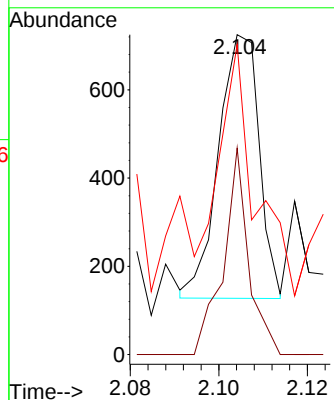
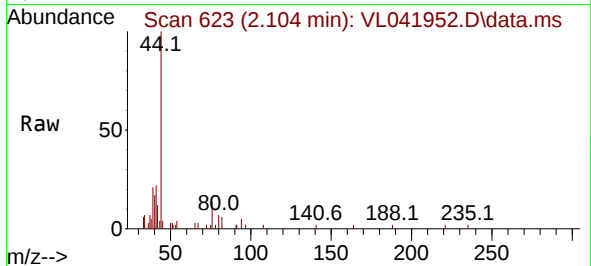




#21
 Allyl Chloride
 Concen: 0.033 ppbv
 RT: 2.104 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL041952.D
 Acq: 27 Jan 2025 15:09

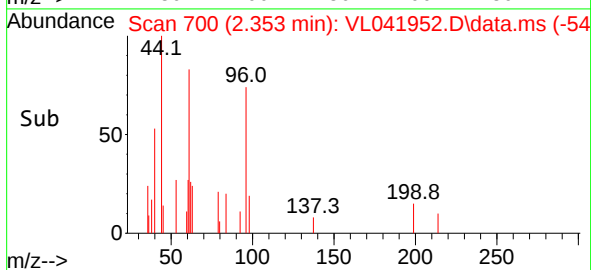
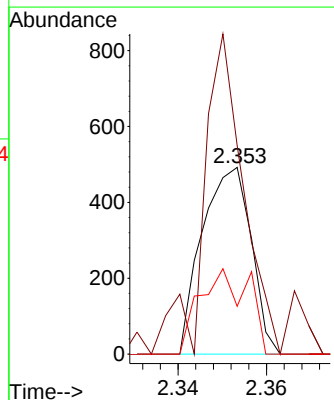
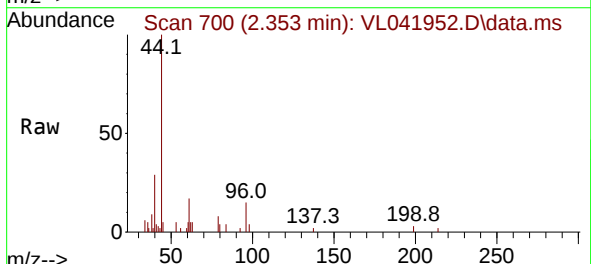
Instrument :
 MSVOA_L
 ClientSampleId :

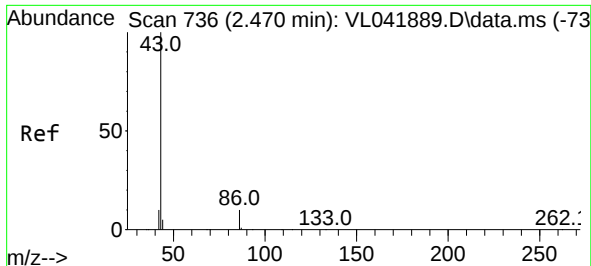
Tgt Ion: 41 Resp: 380
 Ion Ratio Lower Upper
 41 100
 76 56.3 24.2 36.4#
 39 248.7 60.6 91.0#



#22
 trans-1,2-Dichloroethene
 Concen: 0.049 ppbv
 RT: 2.353 min Scan# 700
 Delta R.T. 0.007 min
 Lab File: VL041952.D
 Acq: 27 Jan 2025 15:09

Tgt Ion: 96 Resp: 379
 Ion Ratio Lower Upper
 96 100
 61 111.8 134.5 201.7#
 98 25.6 48.9 73.3#

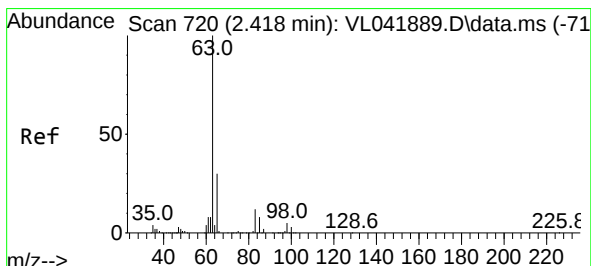
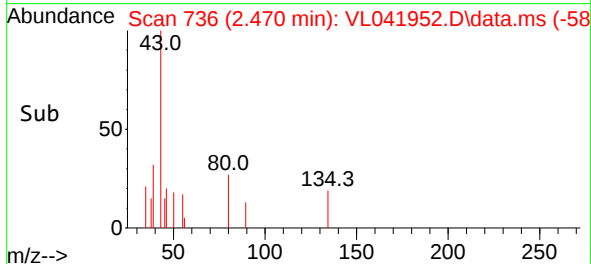
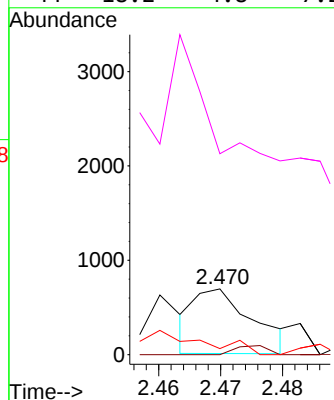
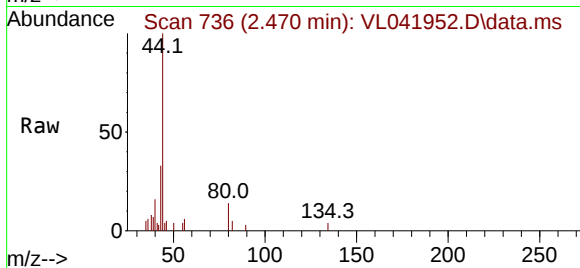




#23
 Vinyl Acetate
 Concen: 0.055 ppbv
 RT: 2.470 min Scan# 713
 Delta R.T. 0.000 min
 Lab File: VL041952.D
 Acq: 27 Jan 2025 15:09

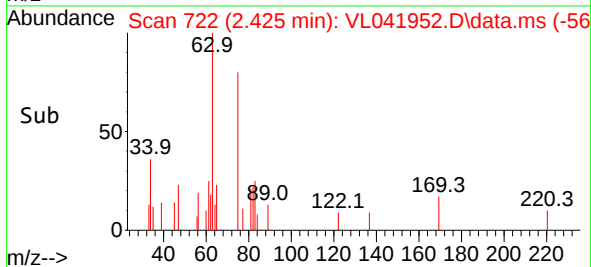
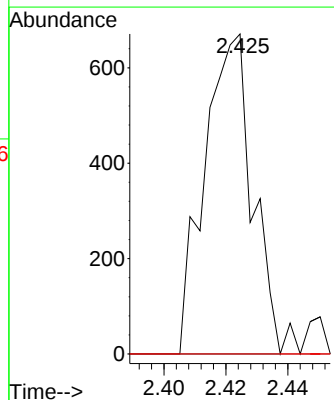
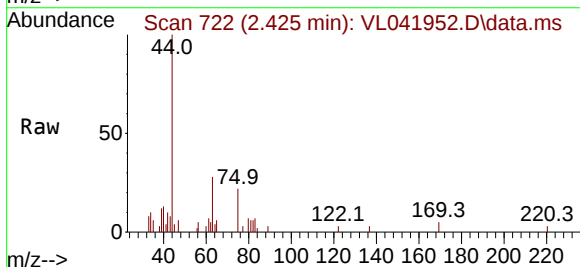
Instrument :
 MSVOA_L
 ClientSampleId :

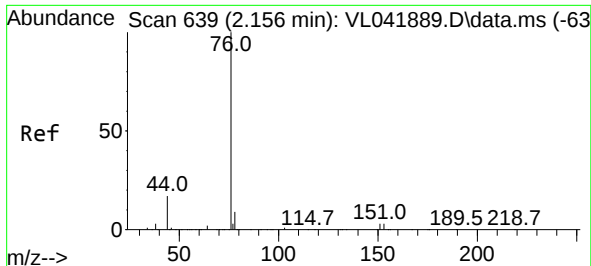
Tgt Ion:	43	Resp:	451
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.4#
42	15.4	8.5	12.7#
44	18.2	4.8	7.2#



#24
 1,1-Dichloroethane
 Concen: 0.048 ppbv
 RT: 2.425 min Scan# 722
 Delta R.T. 0.007 min
 Lab File: VL041952.D
 Acq: 27 Jan 2025 15:09

Tgt Ion:	63	Resp:	717
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.6	7.8#
100	0.0	1.4	4.2#





#27

Carbon Disulfide

Concen: 0.034 ppbv

RT: 2.159 min Scan# 64

Delta R.T. 0.003 min

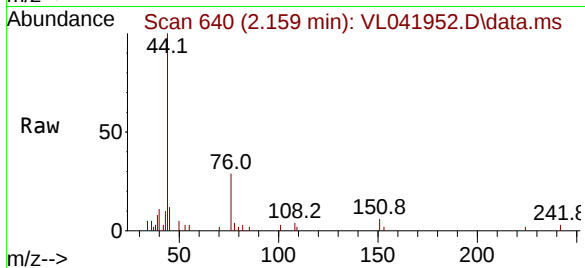
Lab File: VL041952.D

Acq: 27 Jan 2025 15:09

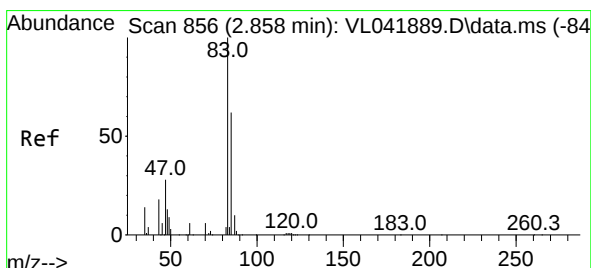
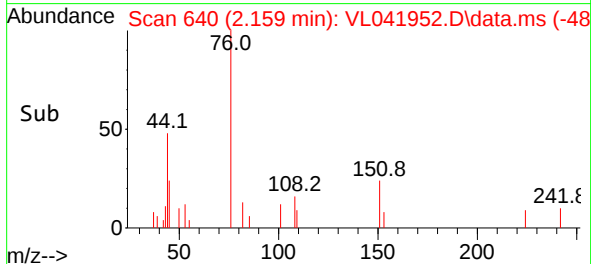
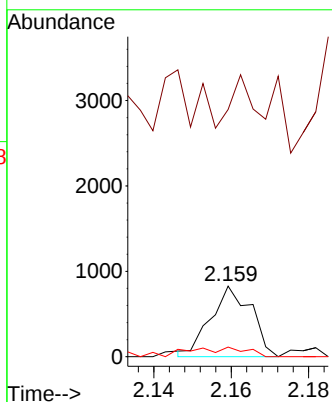
Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:	76	Resp:	598
Ion Ratio	Lower	Upper	
76	100		
44	0.0	15.4	23.0#
78	18.4	9.3	13.9#



#29

Chloroform

Concen: 0.038 ppbv

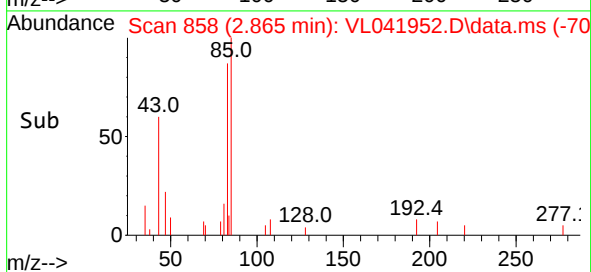
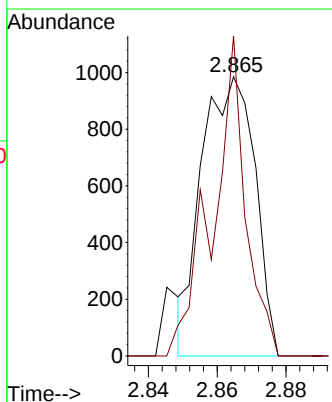
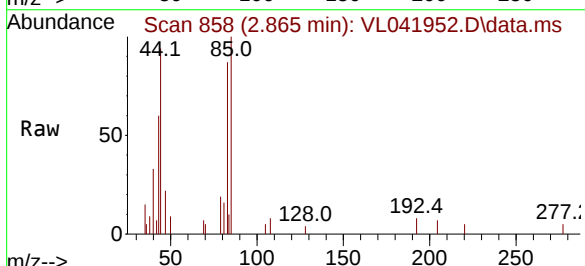
RT: 2.865 min Scan# 858

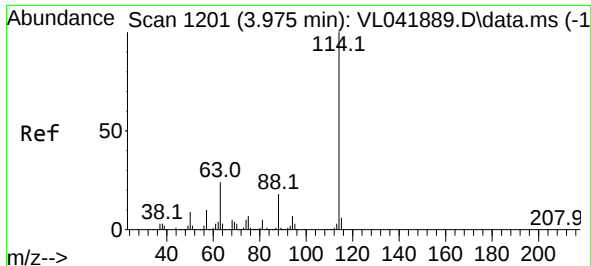
Delta R.T. 0.007 min

Lab File: VL041952.D

Acq: 27 Jan 2025 15:09

Tgt Ion:	83	Resp:	1058
Ion Ratio	Lower	Upper	
83	100		
85	102.5	50.1	75.1#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL041952.D

Acq: 27 Jan 2025 15:09

Instrument :

MSVOA_L

ClientSampleId :

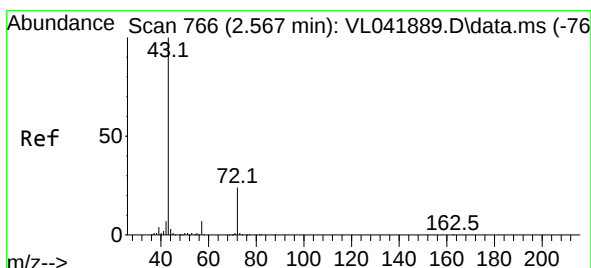
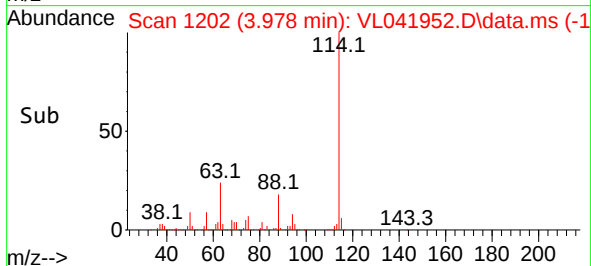
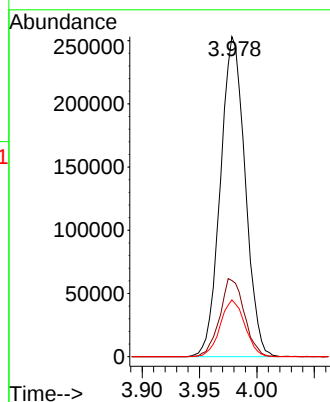
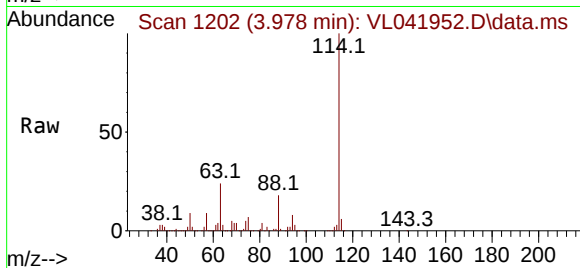
Tgt Ion:114 Resp: 379662

Ion Ratio Lower Upper

114 100

63 24.3 19.8 29.6

88 17.6 14.4 21.6



#34

2-Butanone

Concen: 0.044 ppbv

RT: 2.577 min Scan# 769

Delta R.T. 0.010 min

Lab File: VL041952.D

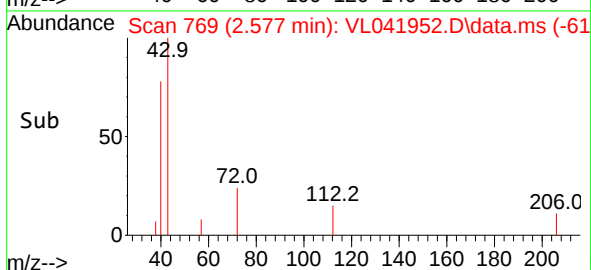
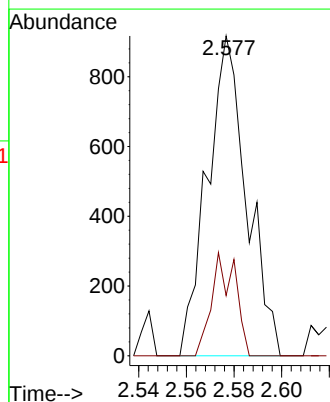
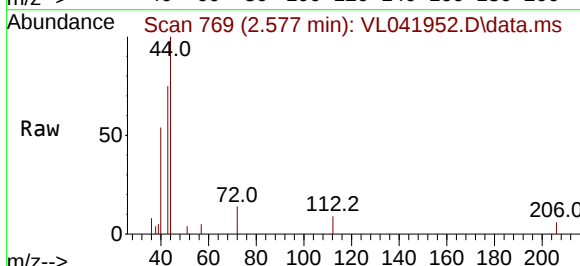
Acq: 27 Jan 2025 15:09

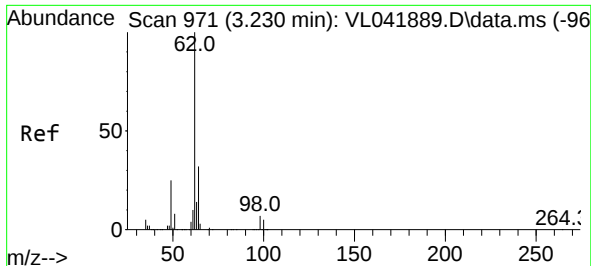
Tgt Ion: 43 Resp: 1056

Ion Ratio Lower Upper

43 100

72 19.1 18.6 28.0





#37

1,2-Dichloroethane

Concen: 0.038 ppbv

RT: 3.231 min Scan# 91

Delta R.T. 0.000 min

Lab File: VL041952.D

Acq: 27 Jan 2025 15:09

Instrument :

MSVOA_L

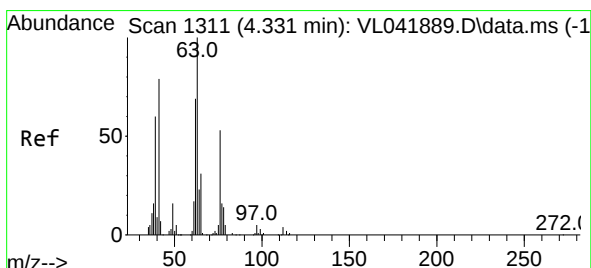
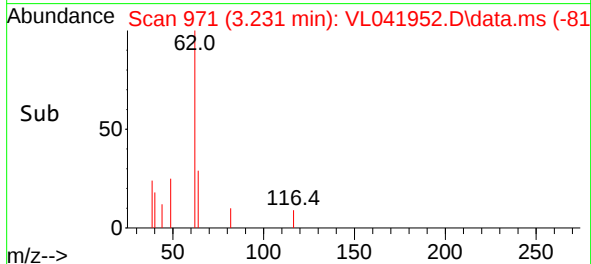
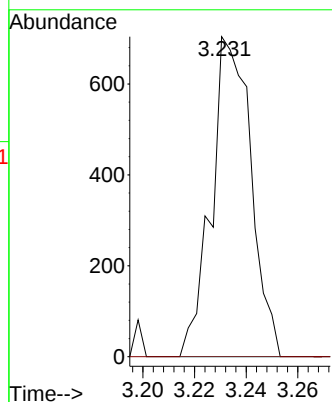
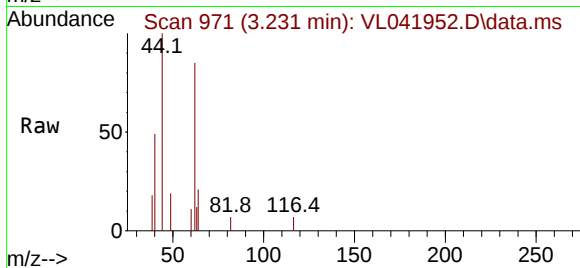
ClientSampleId :

Tgt Ion: 62 Resp: 750

Ion Ratio Lower Upper

62 100

98 0.0 5.4 8.0#



#39

1,2-Dichloropropane

Concen: 7.533 ppbv

RT: 3.975 min Scan# 1201

Delta R.T. -0.356 min

Lab File: VL041952.D

Acq: 27 Jan 2025 15:09

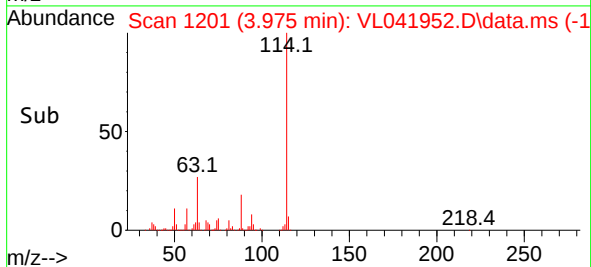
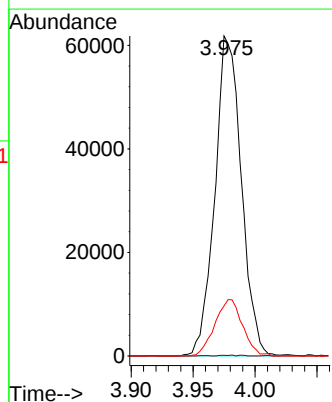
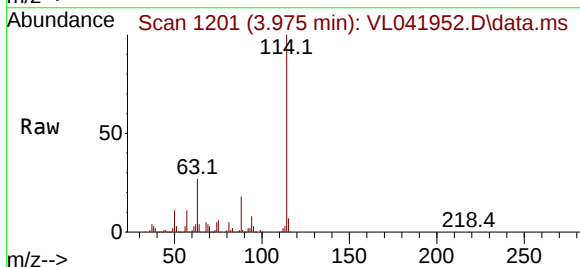
Tgt Ion: 63 Resp: 92014

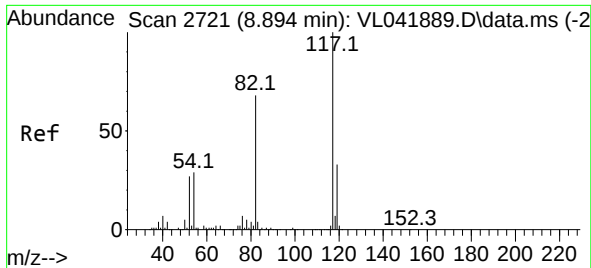
Ion Ratio Lower Upper

63 100

41 0.2 63.7 95.5#

62 15.6 55.4 83.2#

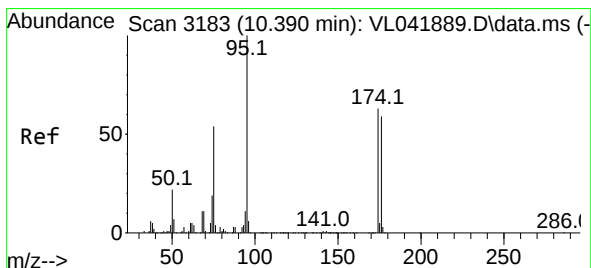
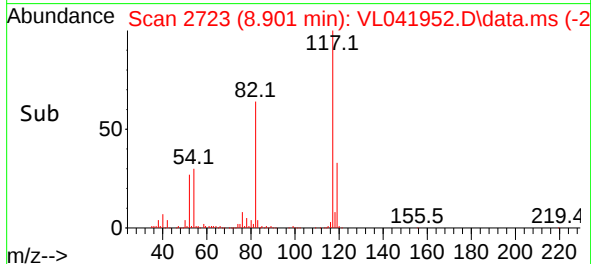
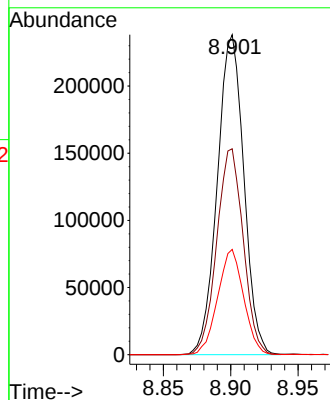
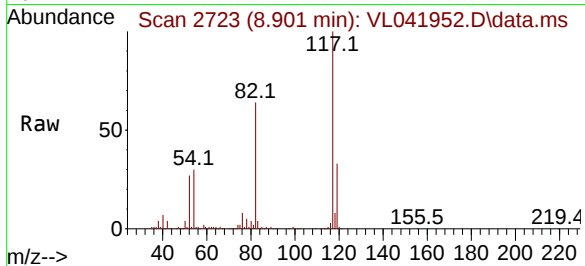




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL041952.D
Acq: 27 Jan 2025 15:09

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 326389
Ion Ratio Lower Upper
117 100
82 64.3 54.2 81.4
119 32.4 25.0 37.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.571 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.003 min
Lab File: VL041952.D
Acq: 27 Jan 2025 15:09

Tgt Ion: 95 Resp: 246054
Ion Ratio Lower Upper
95 100
174 59.8 49.0 73.4
175 4.6 3.8 5.8

