

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012725\
 Data File : VL041953.D
 Acq On : 27 Jan 2025 15:40
 Operator : SY/MD
 Sample : Q1168-14 0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 28 02:39:02 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	2.797	49	136338	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	368786	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	321541	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	244683	9.661	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	932	0.050	ppbv	95
3) Chlorodifluoromethane	1.479	51	725	0.037	ppbv #	77
4) Chloromethane	1.538	50	334	0.048	ppbv	93
5) Vinyl Chloride	1.586	62	325	0.046	ppbv #	59
6) Bromomethane	1.677	94	207	0.061	ppbv #	6
8) Dichlorotetrafluoroethane	1.560	85	720	0.044	ppbv	90
9) Propene	1.489	41	697	0.087	ppbv	100
11) Trichlorofluoromethane	1.881	101	692	0.036	ppbv #	81
12) 1,1,2-Trichlorotrifluo...	2.146	101	548	0.036	ppbv #	72
13) Ethanol	1.732	45	217	0.370	ppbv #	31
14) Bromoethene	1.784	108	305	0.055	ppbv #	58
15) Acetone	1.842	43	2055	0.125	ppbv #	80
16) 1,3-Butadiene	1.615	39	592	0.081	ppbv #	81
17) tert-Butyl alcohol	2.049	59	738	0.037	ppbv #	91
18) 1,1-Dichloroethene	2.039	96	342	0.050	ppbv #	50
19) Isopropyl Alcohol	1.894	45	1431	0.147	ppbv #	37
20) Methylene Chloride	2.068	84	1217	0.188	ppbv	91
21) Allyl Chloride	2.101	41	656	0.058	ppbv #	39
22) trans-1,2-Dichloroethene	2.344	96	245	0.032	ppbv #	25
23) Vinyl Acetate	2.473	43	455	0.056	ppbv #	50
24) 1,1-Dichloroethane	2.415	63	695	0.047	ppbv #	87
27) Carbon Disulfide	2.159	76	566	0.033	ppbv #	1
31) cis-1,2-Dichloroethene	2.732	61	587	0.032	ppbv	94
39) 1,2-Dichloropropane	3.972	63	91945	7.749	ppbv #	22
56) 1,1,1,2-Tetrachloroethane	8.946	131	577	0.036	ppbv #	56
57) Chlorobenzene	8.933	112	1148	0.039	ppbv #	77
59) m/p-Xylene	9.565	91	1263	0.031	ppbv	90
60) o-Xylene	9.565	91	1263	0.032	ppbv	86
78) Hexachloro-1,3-Butadiene	13.895	225	797	0.036	ppbv	90

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

Instrument :

MSVOA L

ClientSampleId :

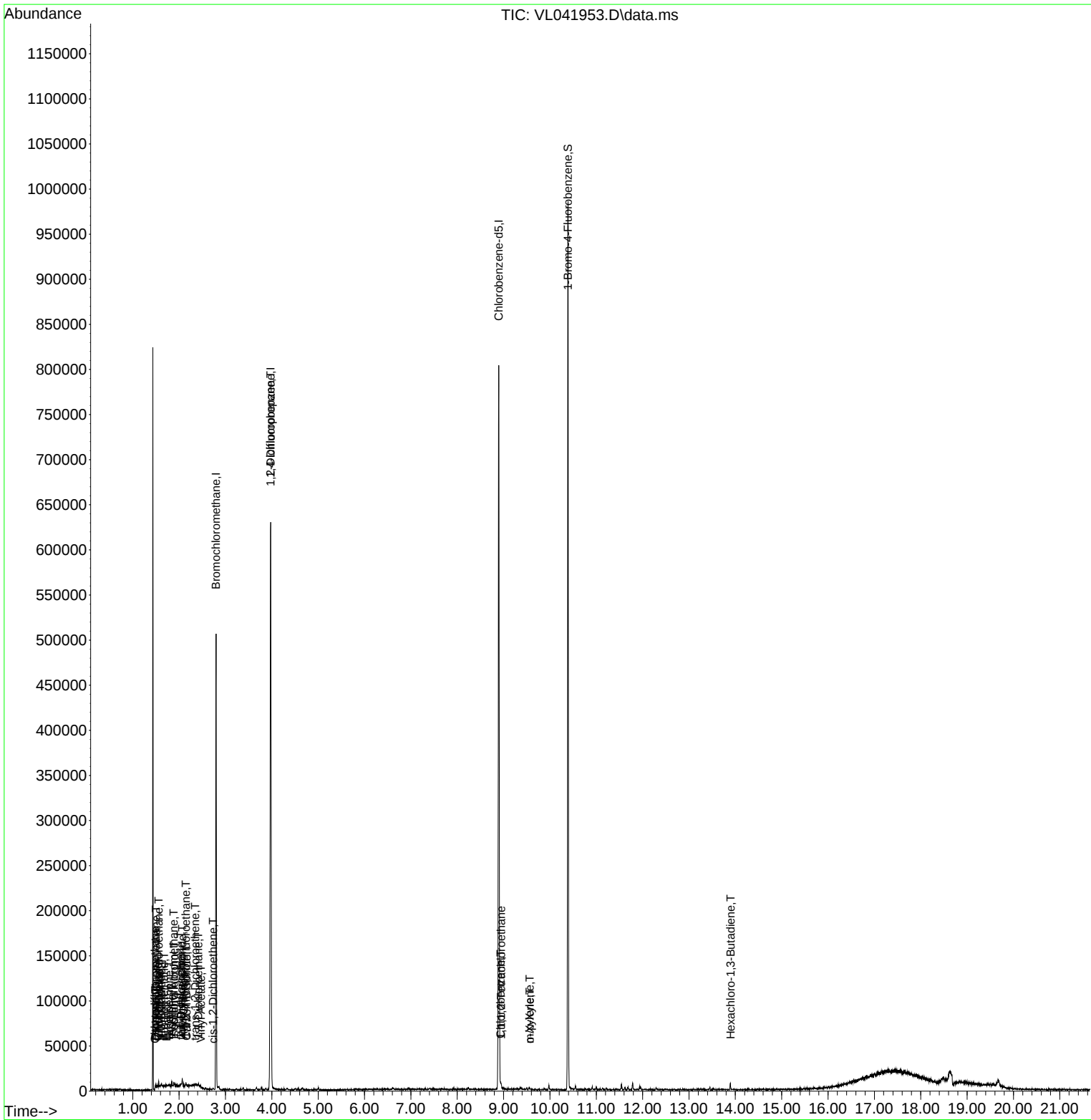
Quant Time: Jan 28 02:39:02 2025

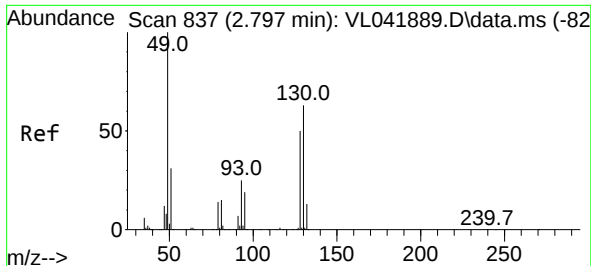
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

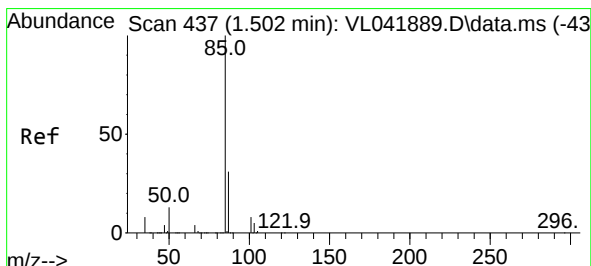
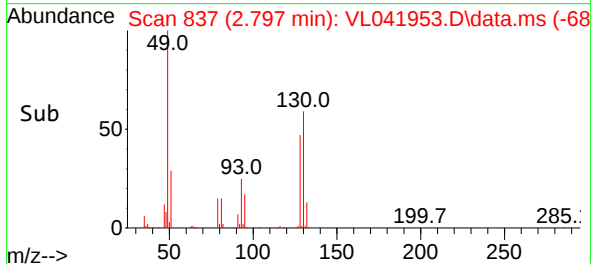
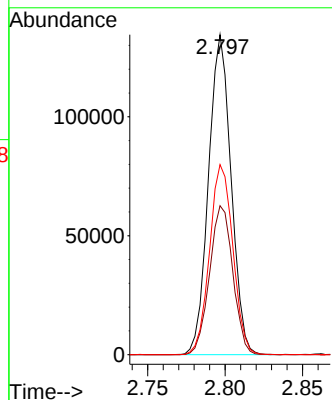
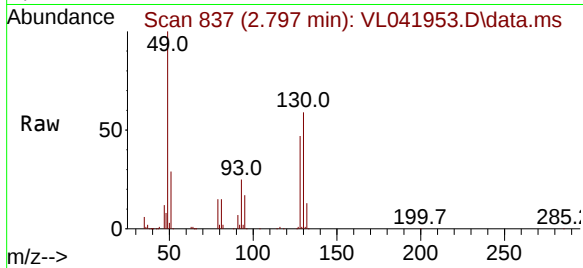




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 837
Delta R.T. -0.000 min
Lab File: VL041953.D
Acq: 27 Jan 2025 15:40

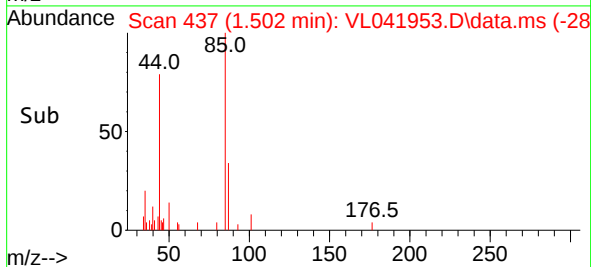
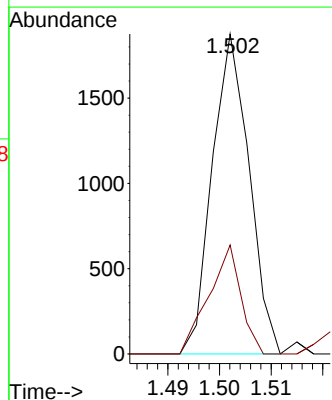
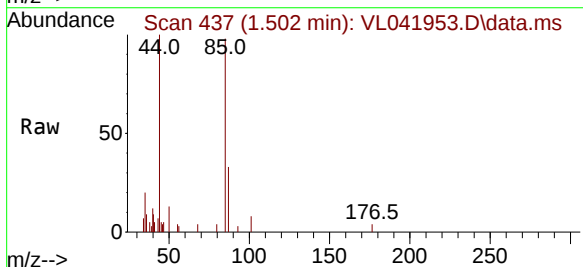
Instrument :
MSVOA_L
ClientSampleId :

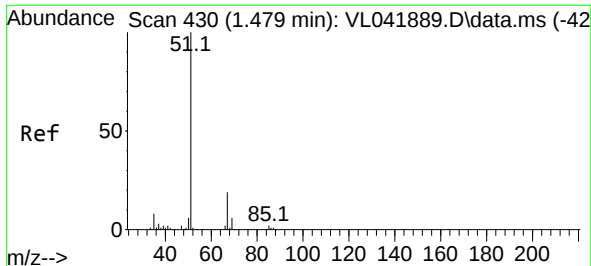
Tgt Ion: 49 Resp: 136338
Ion Ratio Lower Upper
49 100
128 48.0 24.3 73.0
130 61.4 31.1 93.2



#2
Dichlorodifluoromethane
Concen: 0.050 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL041953.D
Acq: 27 Jan 2025 15:40

Tgt Ion: 85 Resp: 932
Ion Ratio Lower Upper
85 100
87 34.1 24.9 37.3

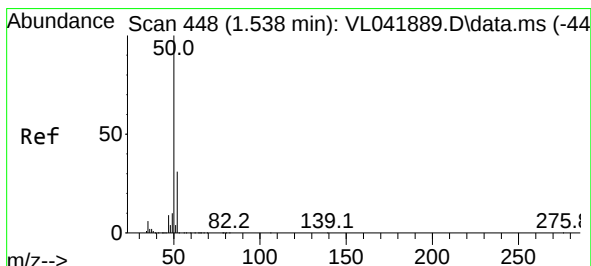
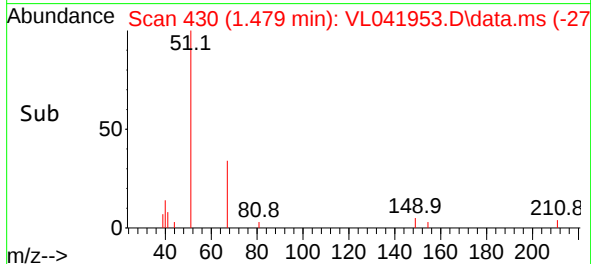
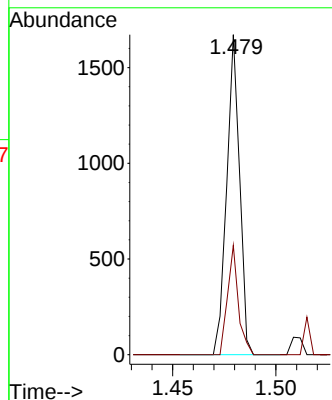
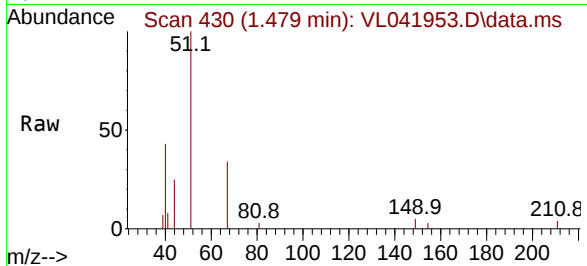




#3
Chlorodifluoromethane
Concen: 0.037 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041953.D
Acq: 27 Jan 2025 15:40

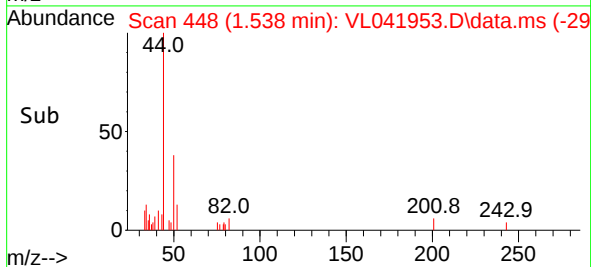
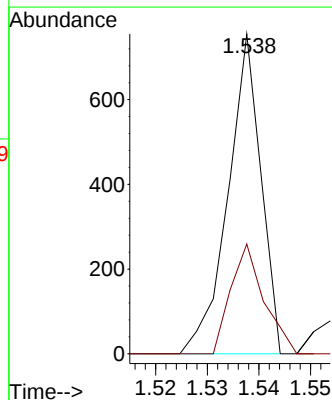
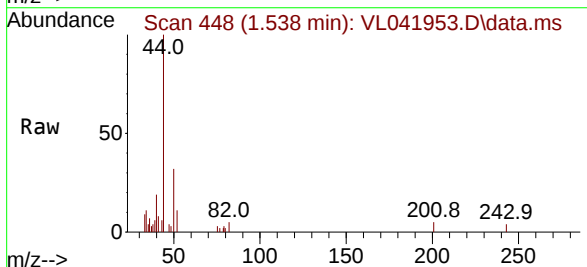
Instrument :
MSVOA_L
ClientSampleId :

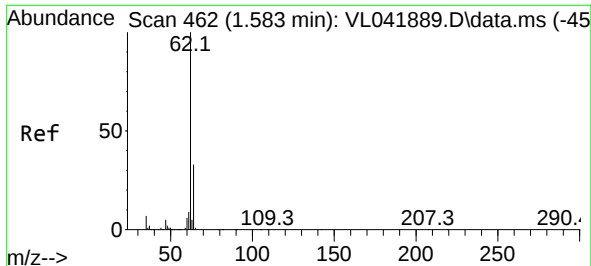
Tgt Ion: 51 Resp: 725
Ion Ratio Lower Upper
51 100
67 28.8 15.0 22.4#



#4
Chloromethane
Concen: 0.048 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.000 min
Lab File: VL041953.D
Acq: 27 Jan 2025 15:40

Tgt Ion: 50 Resp: 334
Ion Ratio Lower Upper
50 100
52 34.3 24.6 36.8

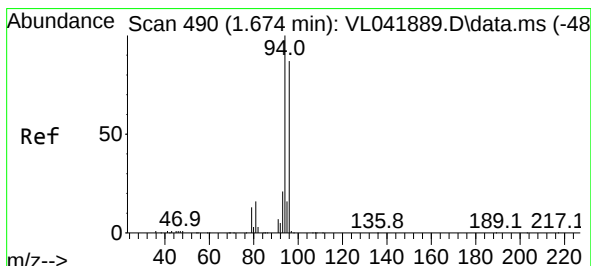
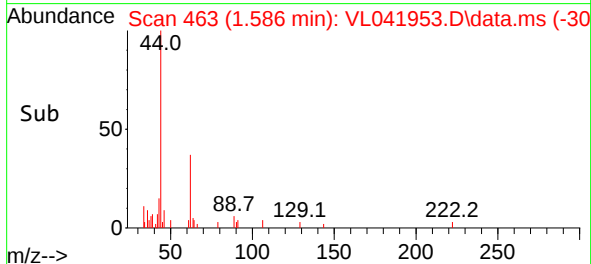
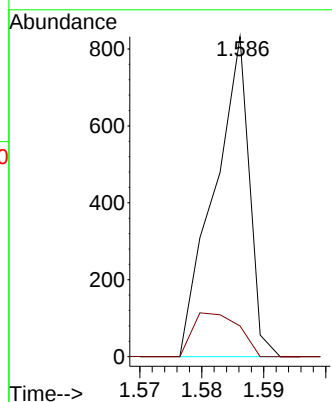
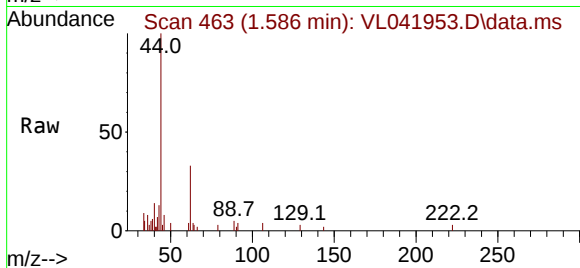




#5
 Vinyl Chloride
 Concen: 0.046 ppbv
 RT: 1.586 min Scan# 463
 Delta R.T. 0.003 min
 Lab File: VL041953.D
 Acq: 27 Jan 2025 15:40

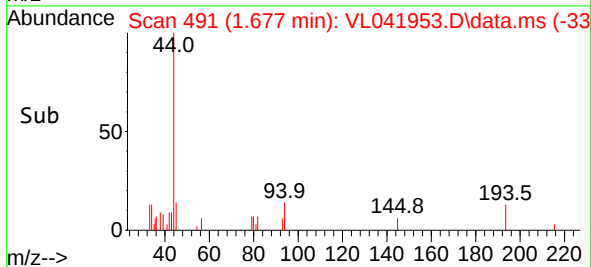
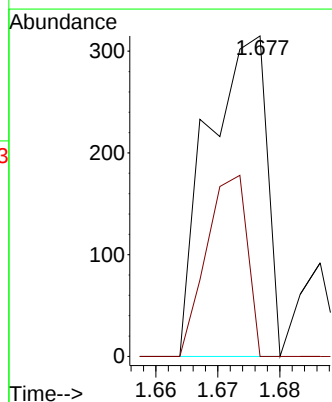
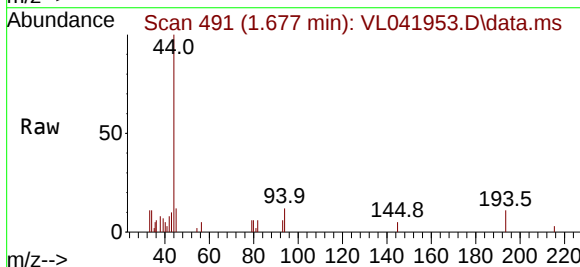
Instrument :
 MSVOA_L
 ClientSampleId :

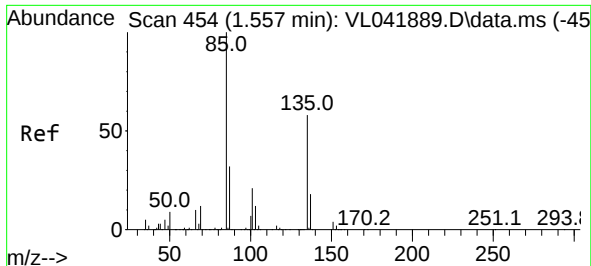
Tgt Ion: 62 Resp: 325
 Ion Ratio Lower Upper
 62 100
 64 9.6 26.1 39.1#



#6
 Bromomethane
 Concen: 0.061 ppbv
 RT: 1.677 min Scan# 491
 Delta R.T. 0.003 min
 Lab File: VL041953.D
 Acq: 27 Jan 2025 15:40

Tgt Ion: 94 Resp: 207
 Ion Ratio Lower Upper
 94 100
 96 0.0 69.5 104.3#

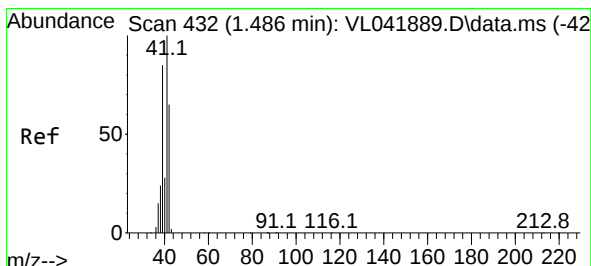
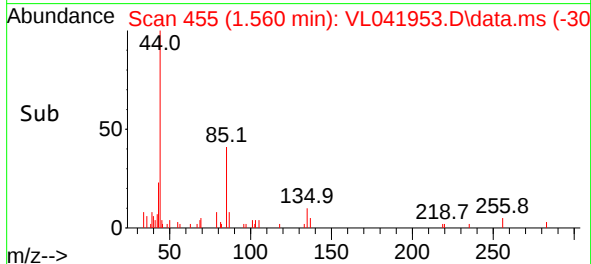
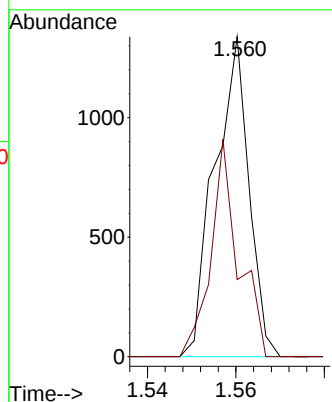
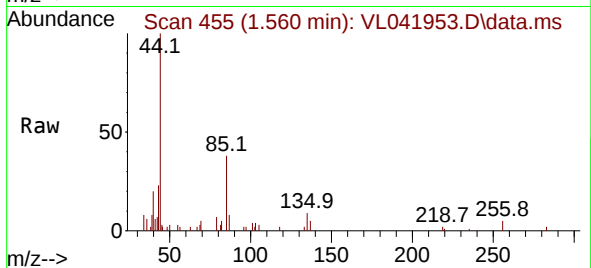




#8
 Dichlorotetrafluoroethane
 Concen: 0.044 ppbv
 RT: 1.560 min Scan# 411
 Delta R.T. 0.003 min
 Lab File: VL041953.D
 Acq: 27 Jan 2025 15:40

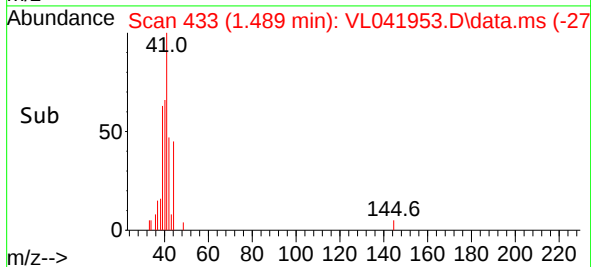
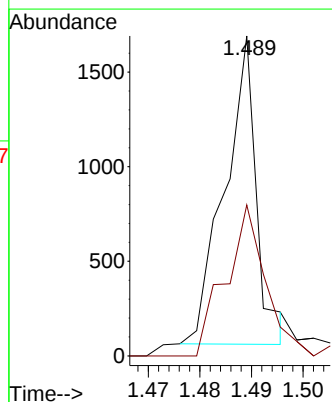
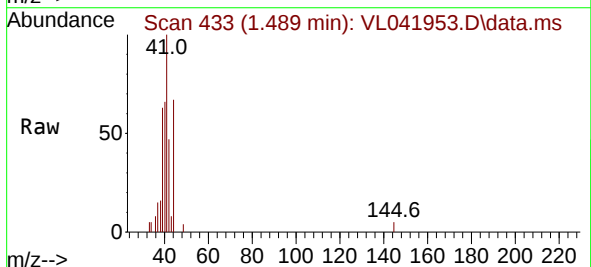
Instrument :
 MSVOA_L
 ClientSampleId :

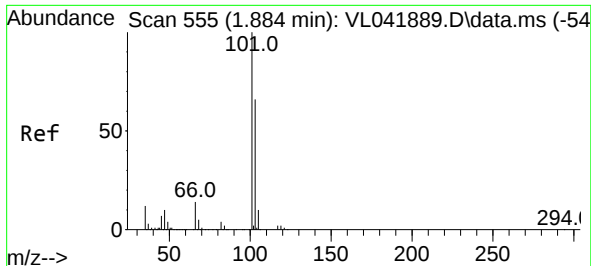
Tgt Ion: 85 Resp: 720
 Ion Ratio Lower Upper
 85 100
 135 54.4 50.0 75.0



#9
 Propene
 Concen: 0.087 ppbv
 RT: 1.489 min Scan# 433
 Delta R.T. 0.003 min
 Lab File: VL041953.D
 Acq: 27 Jan 2025 15:40

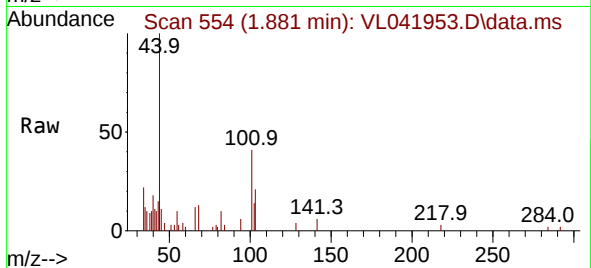
Tgt Ion: 41 Resp: 697
 Ion Ratio Lower Upper
 41 100
 42 64.7 52.0 78.0



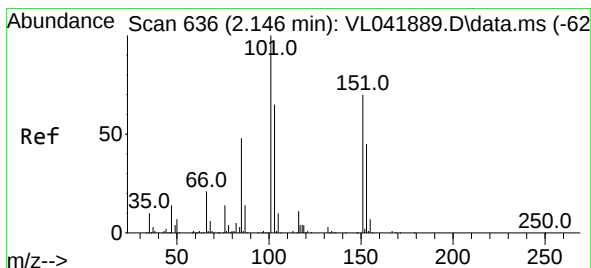
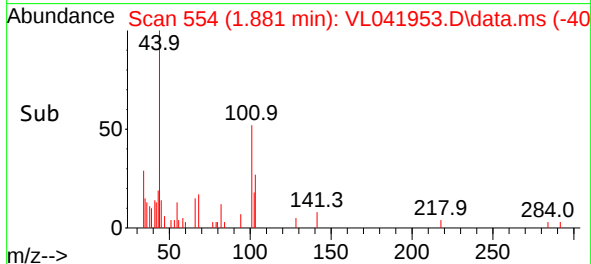
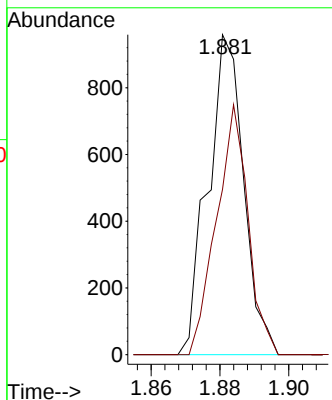


#11
 Trichlorofluoromethane
 Concen: 0.036 ppbv
 RT: 1.881 min Scan# 51
 Delta R.T. -0.003 min
 Lab File: VL041953.D
 Acq: 27 Jan 2025 15:40

Instrument :
 MSVOA_L
 ClientSampleId :

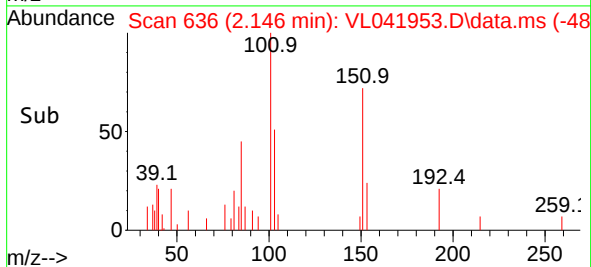
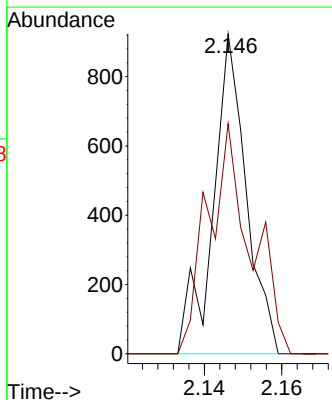
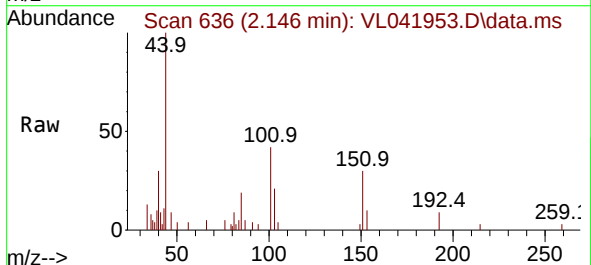


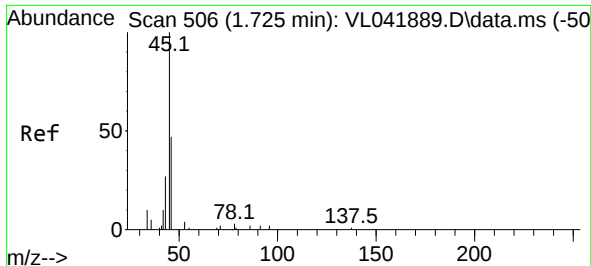
Tgt Ion:101 Resp: 692
 Ion Ratio Lower Upper
 101 100
 103 51.6 53.1 79.7#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.036 ppbv
 RT: 2.146 min Scan# 636
 Delta R.T. 0.000 min
 Lab File: VL041953.D
 Acq: 27 Jan 2025 15:40

Tgt Ion:101 Resp: 548
 Ion Ratio Lower Upper
 101 100
 151 93.4 56.1 84.1#





#13

Ethanol

Concen: 0.370 ppbv

RT: 1.732 min Scan# 506

Delta R.T. 0.007 min

Lab File: VL041953.D

Acq: 27 Jan 2025 15:40

Instrument :

MSVOA_L

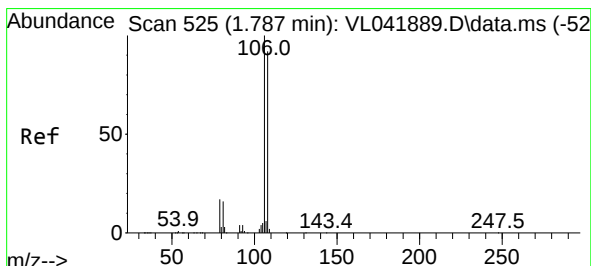
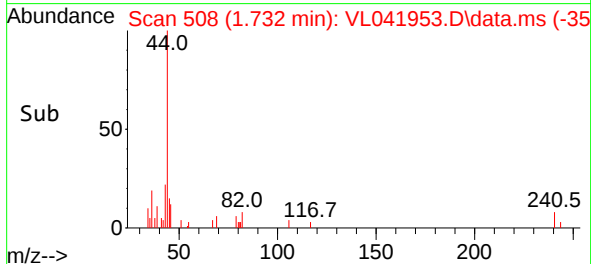
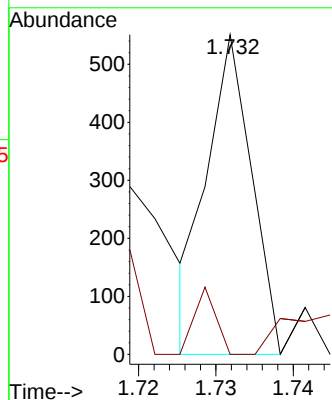
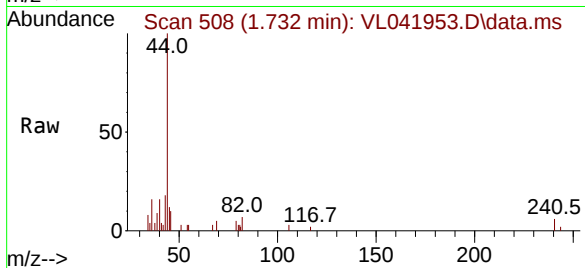
ClientSampleId :

Tgt Ion: 45 Resp: 217

Ion Ratio Lower Upper

45 100

46 0.0 18.1 72.5#



#14

Bromoethene

Concen: 0.055 ppbv

RT: 1.784 min Scan# 524

Delta R.T. -0.003 min

Lab File: VL041953.D

Acq: 27 Jan 2025 15:40

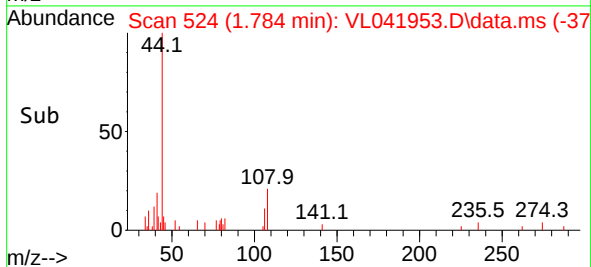
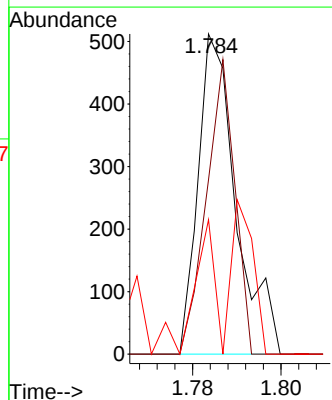
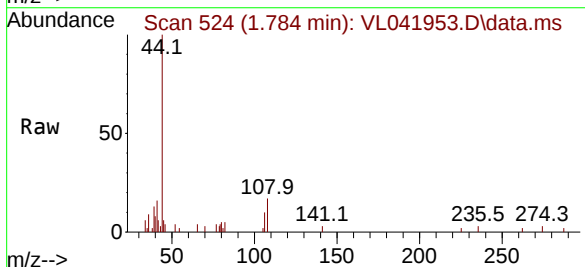
Tgt Ion: 108 Resp: 305

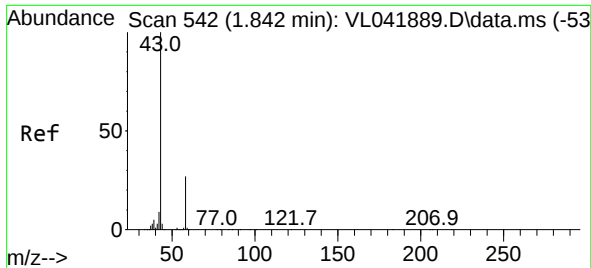
Ion Ratio Lower Upper

108 100

106 68.9 85.5 128.3#

79 51.1 15.3 22.9#





#15

Acetone

Concen: 0.125 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.000 min

Lab File: VL041953.D

Acq: 27 Jan 2025 15:40

Instrument :

MSVOA_L

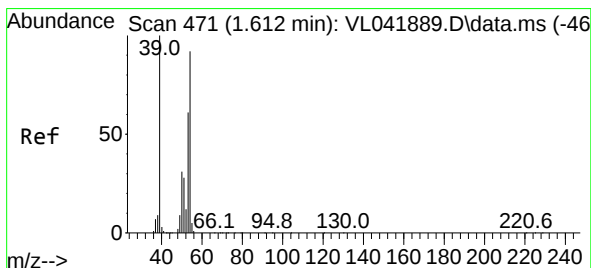
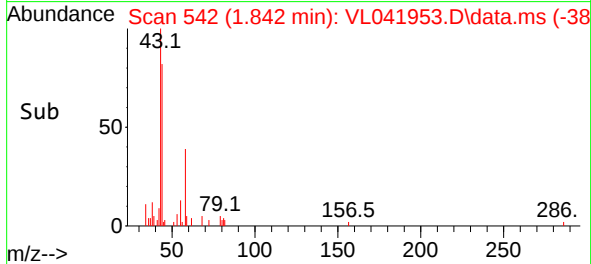
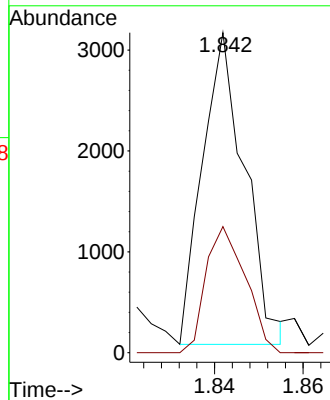
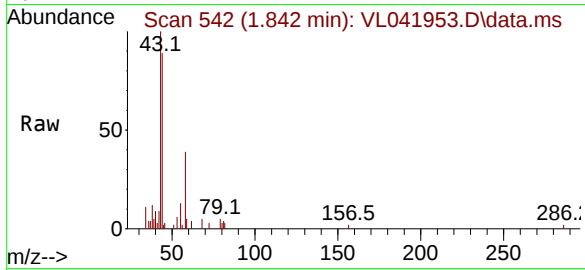
ClientSampleId :

Tgt Ion: 43 Resp: 2055

Ion Ratio Lower Upper

43 100

58 37.9 21.9 32.9#



#16

1,3-Butadiene

Concen: 0.081 ppbv

RT: 1.615 min Scan# 472

Delta R.T. 0.003 min

Lab File: VL041953.D

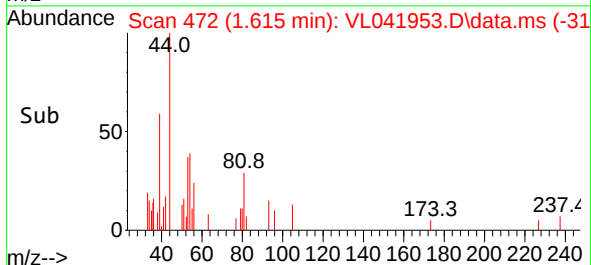
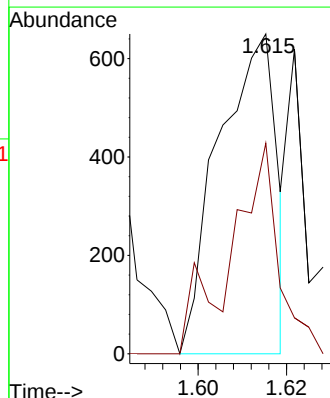
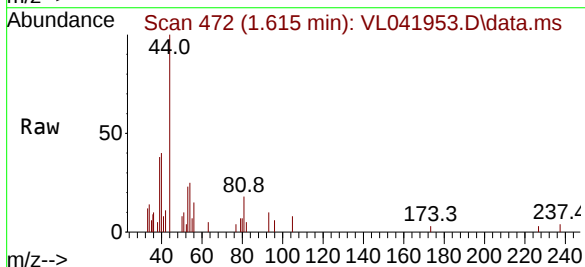
Acq: 27 Jan 2025 15:40

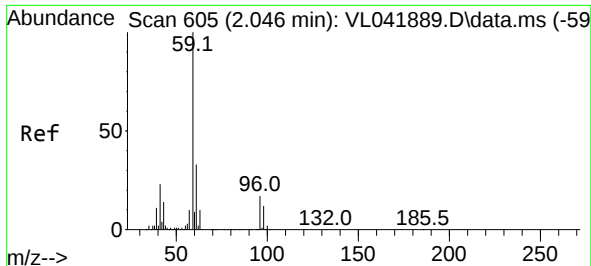
Tgt Ion: 39 Resp: 592

Ion Ratio Lower Upper

39 100

54 60.3 61.6 92.4#





#17

tert-Butyl alcohol

Concen: 0.037 ppbv

RT: 2.049 min Scan# 605

Delta R.T. 0.003 min

Lab File: VL041953.D

Acq: 27 Jan 2025 15:40

Instrument :

MSVOA_L

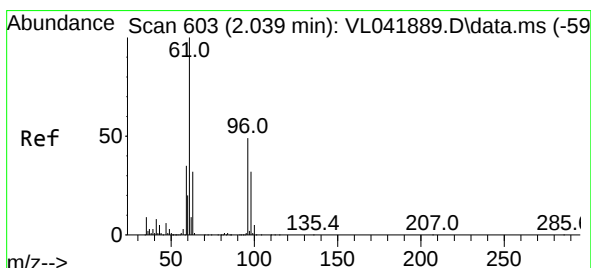
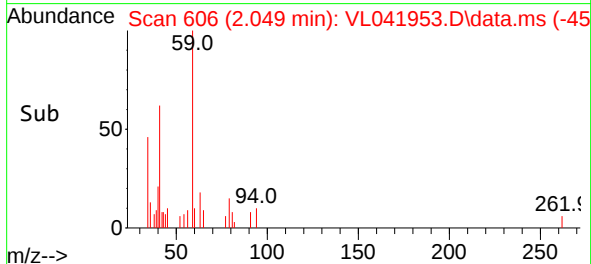
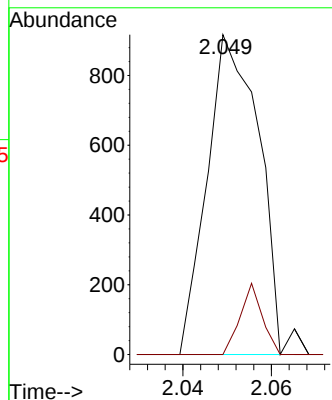
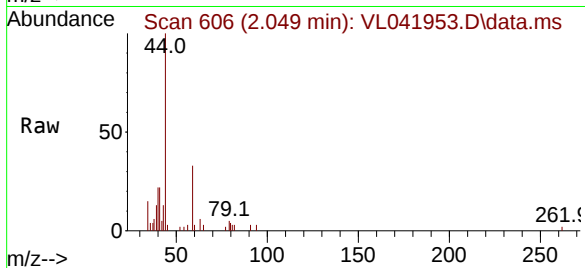
ClientSampleId :

Tgt Ion: 59 Resp: 738

Ion Ratio Lower Upper

59 100

57 13.1 7.8 11.8#



#18

1,1-Dichloroethene

Concen: 0.050 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.000 min

Lab File: VL041953.D

Acq: 27 Jan 2025 15:40

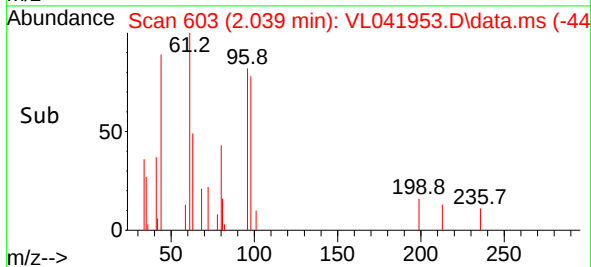
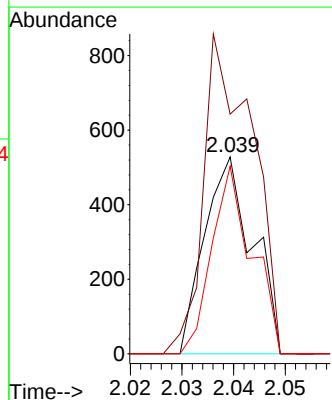
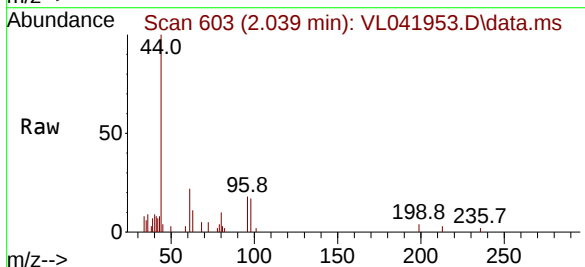
Tgt Ion: 96 Resp: 342

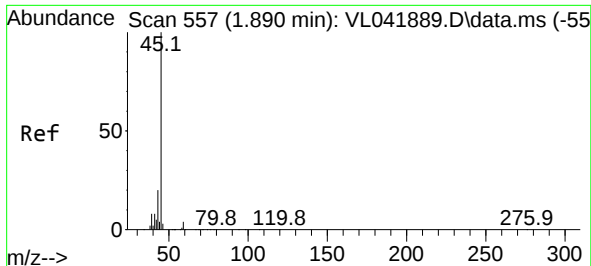
Ion Ratio Lower Upper

96 100

61 121.8 163.1 244.7#

98 95.3 52.7 79.1#





#19

Isopropyl Alcohol

Concen: 0.147 ppbv

RT: 1.894 min Scan# 51

Delta R.T. 0.003 min

Lab File: VL041953.D

Acq: 27 Jan 2025 15:40

Instrument :

MSVOA_L

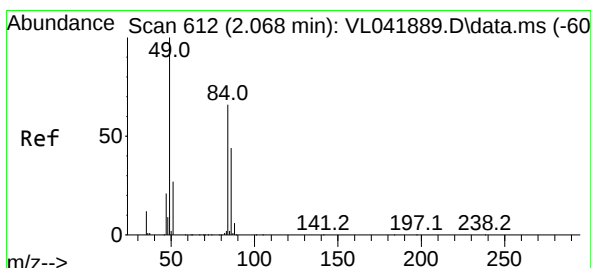
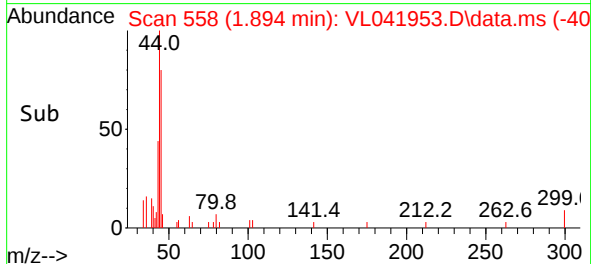
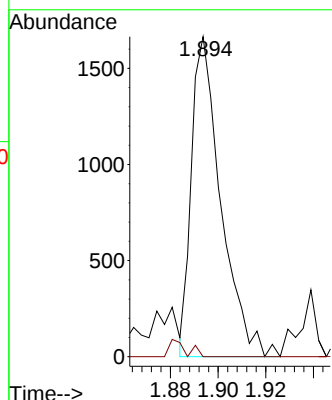
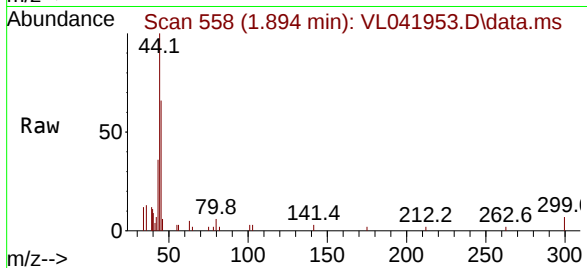
ClientSampleId :

Tgt Ion: 45 Resp: 1431

Ion Ratio Lower Upper

45 100

58 3.0 35.0 52.6#



#20

Methylene Chloride

Concen: 0.188 ppbv

RT: 2.068 min Scan# 612

Delta R.T. 0.000 min

Lab File: VL041953.D

Acq: 27 Jan 2025 15:40

Tgt Ion: 84 Resp: 1217

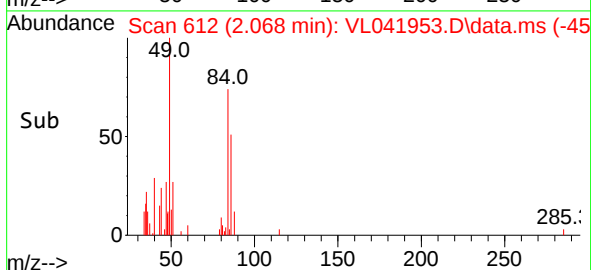
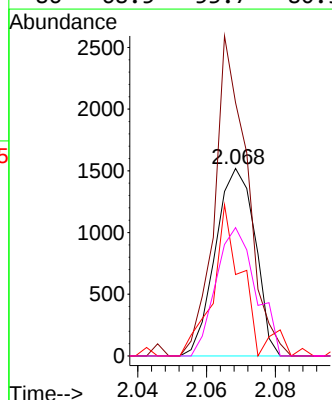
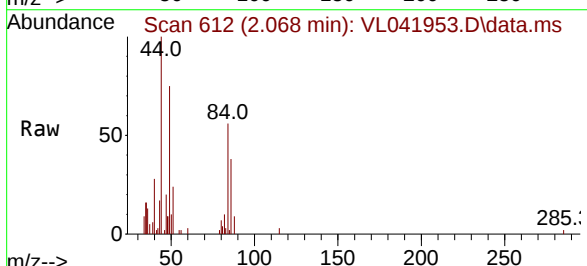
Ion Ratio Lower Upper

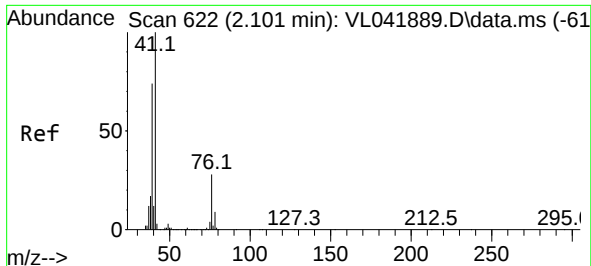
84 100

49 135.1 123.1 184.7

51 43.4 35.8 53.8

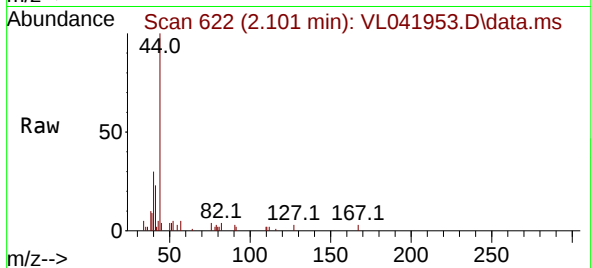
86 68.5 53.7 80.5



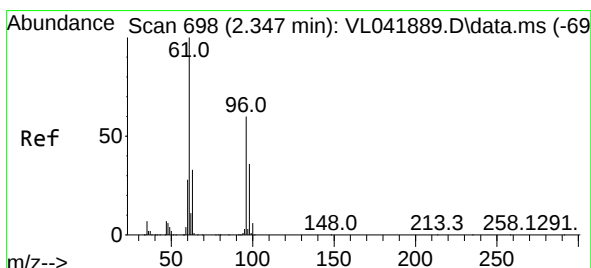
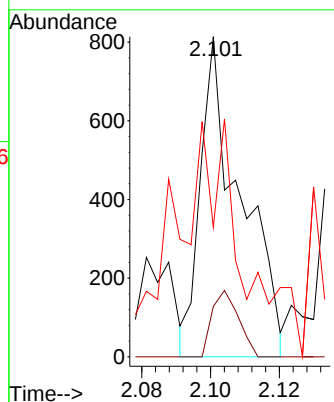
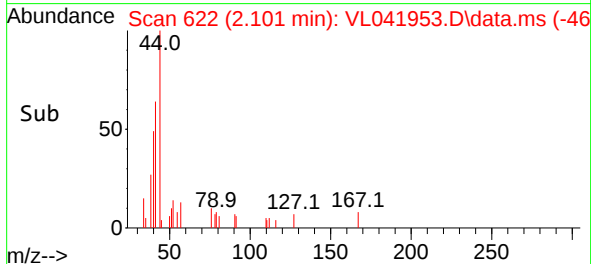


#21
 Allyl Chloride
 Concen: 0.058 ppbv
 RT: 2.101 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL041953.D
 Acq: 27 Jan 2025 15:40

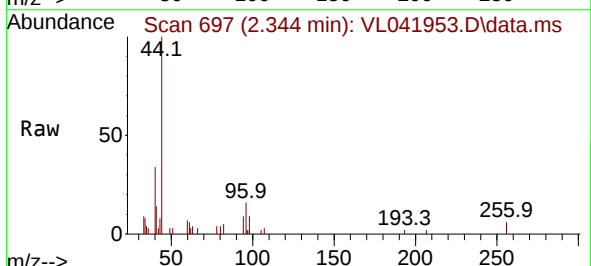
Instrument :
 MSVOA_L
 ClientSampleId :



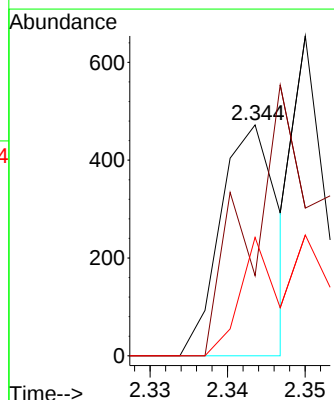
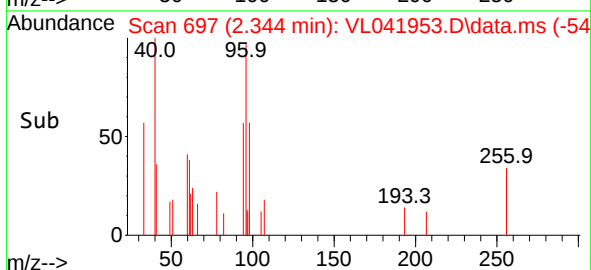
Tgt Ion: 41 Resp: 656
 Ion Ratio Lower Upper
 41 100
 76 13.7 24.2 36.4#
 39 138.0 60.6 91.0#

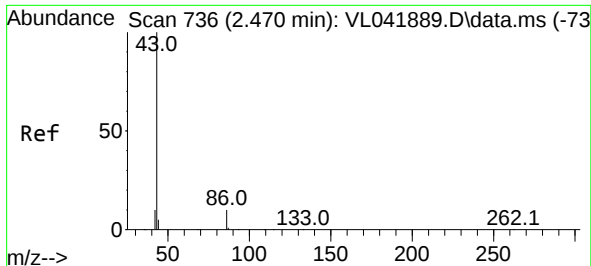


#22
 trans-1,2-Dichloroethene
 Concen: 0.032 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. -0.003 min
 Lab File: VL041953.D
 Acq: 27 Jan 2025 15:40



Tgt Ion: 96 Resp: 245
 Ion Ratio Lower Upper
 96 100
 61 34.7 134.5 201.7#
 98 51.3 48.9 73.3

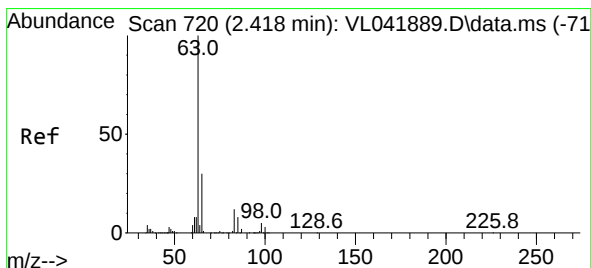
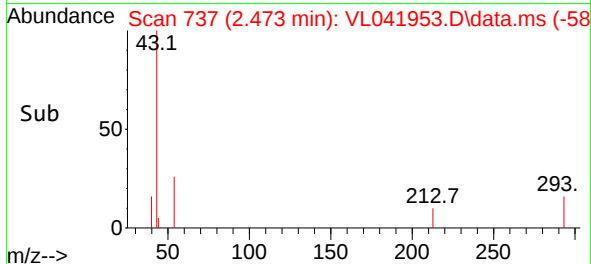
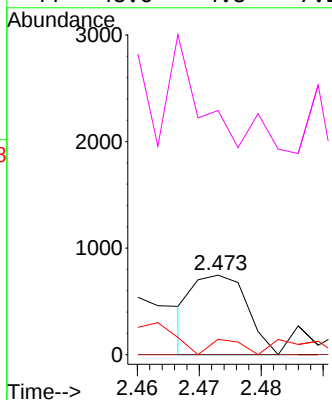
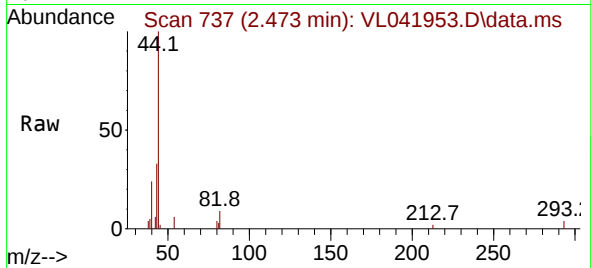




#23
 Vinyl Acetate
 Concen: 0.056 ppbv
 RT: 2.473 min Scan# 719
 Delta R.T. 0.003 min
 Lab File: VL041953.D
 Acq: 27 Jan 2025 15:40

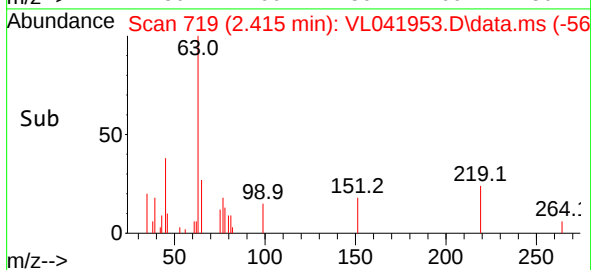
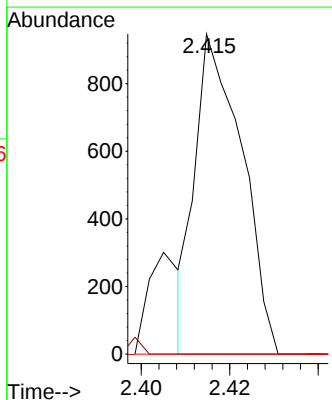
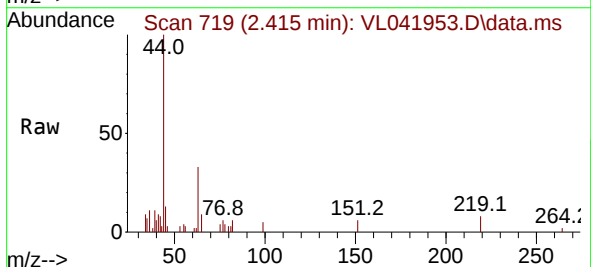
Instrument :
 MSVOA_L
 ClientSampleId :

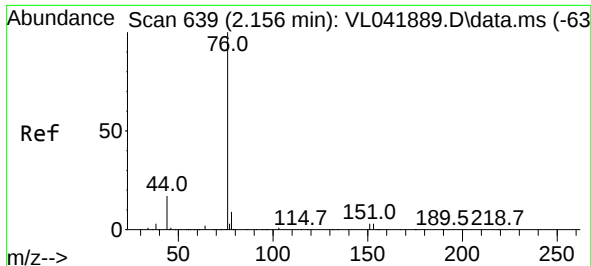
Tgt Ion:	43	Resp:	455
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.4#
42	0.3	8.5	12.7#
44	48.6	4.8	7.2#



#24
 1,1-Dichloroethane
 Concen: 0.047 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. -0.003 min
 Lab File: VL041953.D
 Acq: 27 Jan 2025 15:40

Tgt Ion:	63	Resp:	695
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.6	7.8#
100	0.0	1.4	4.2#

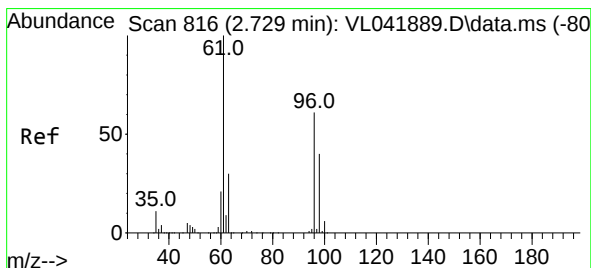
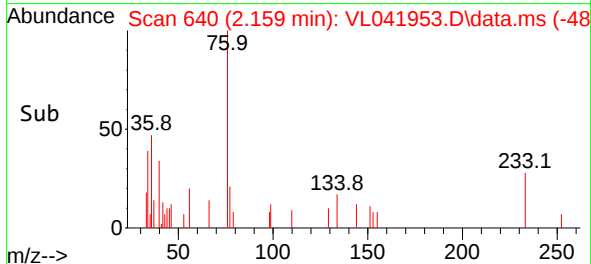
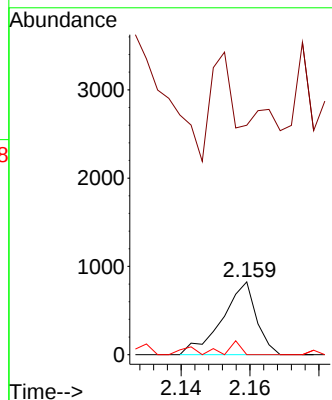
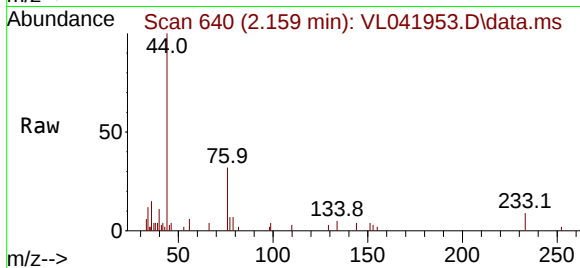




#27
Carbon Disulfide
Concen: 0.033 ppbv
RT: 2.159 min Scan# 641
Delta R.T. 0.003 min
Lab File: VL041953.D
Acq: 27 Jan 2025 15:40

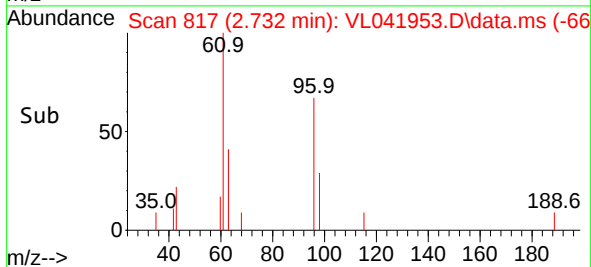
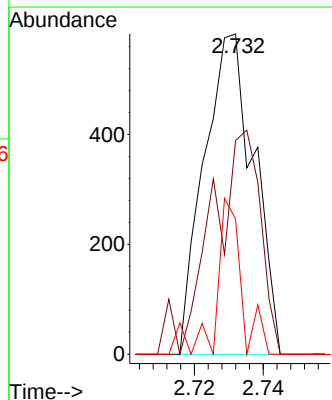
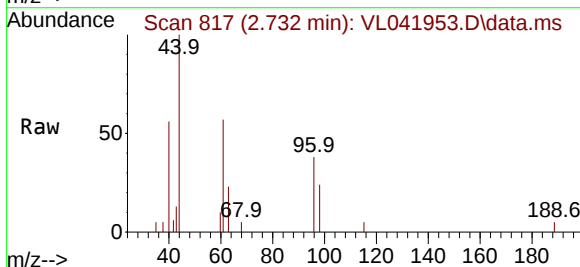
Instrument :
MSVOA_L
ClientSampleId :

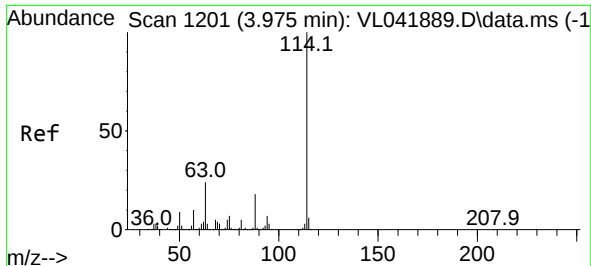
Tgt Ion: 76 Resp: 566
Ion Ratio Lower Upper
76 100
44 870.5 15.4 23.0#
78 19.1 9.3 13.9#



#31
cis-1,2-Dichloroethene
Concen: 0.032 ppbv
RT: 2.732 min Scan# 817
Delta R.T. 0.003 min
Lab File: VL041953.D
Acq: 27 Jan 2025 15:40

Tgt Ion: 61 Resp: 587
Ion Ratio Lower Upper
61 100
96 66.7 48.7 73.1
98 42.2 31.6 47.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL041953.D

Acq: 27 Jan 2025 15:40

Instrument :

MSVOA_L

ClientSampleId :

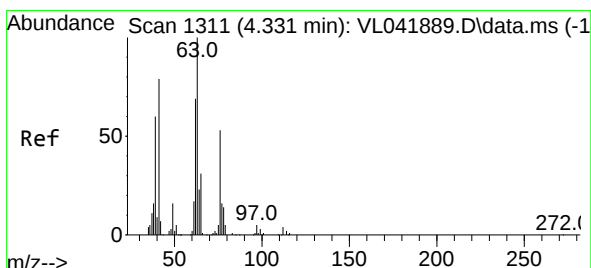
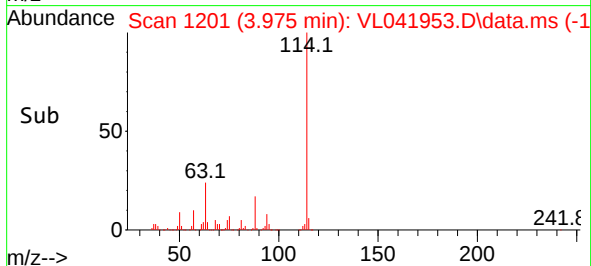
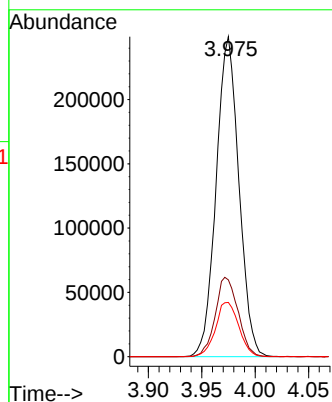
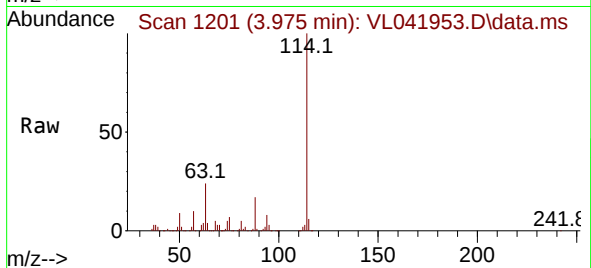
Tgt Ion:114 Resp: 368786

Ion Ratio Lower Upper

114 100

63 25.0 19.8 29.6

88 17.4 14.4 21.6



#39

1,2-Dichloropropane

Concen: 7.749 ppbv

RT: 3.972 min Scan# 1200

Delta R.T. -0.359 min

Lab File: VL041953.D

Acq: 27 Jan 2025 15:40

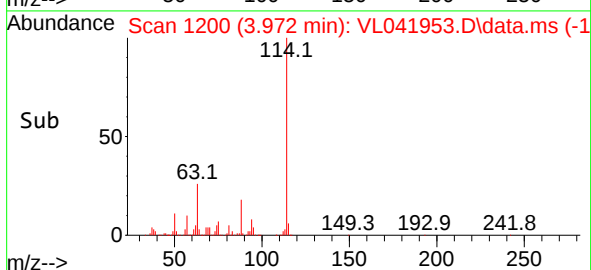
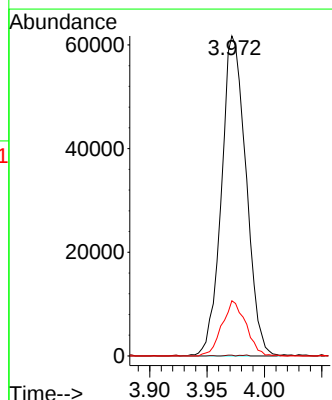
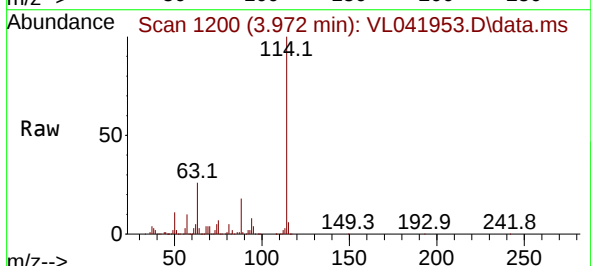
Tgt Ion: 63 Resp: 91945

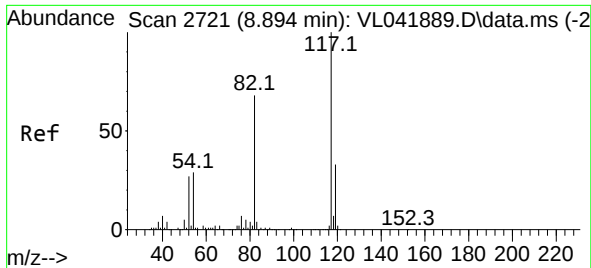
Ion Ratio Lower Upper

63 100

41 0.2 63.7 95.5#

62 17.2 55.4 83.2#

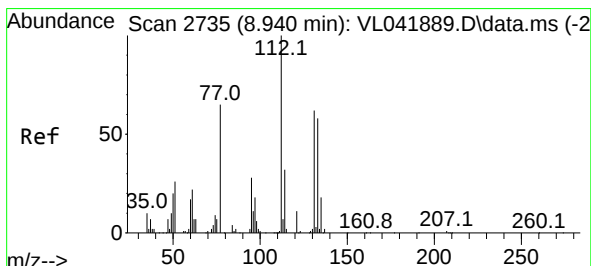
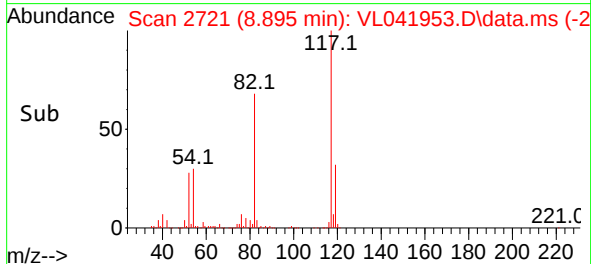
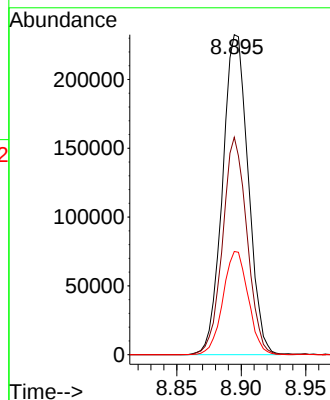
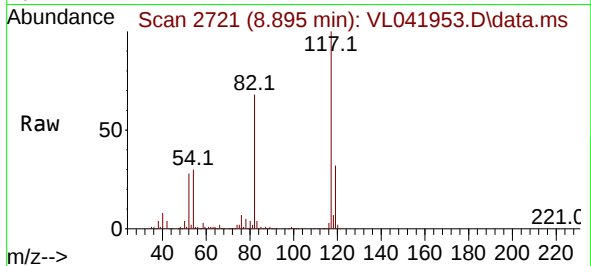




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.895 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL041953.D
Acq: 27 Jan 2025 15:40

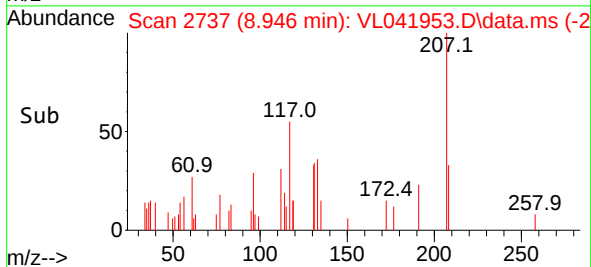
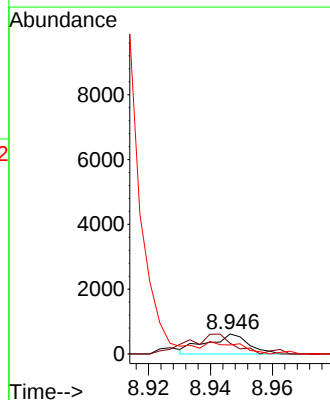
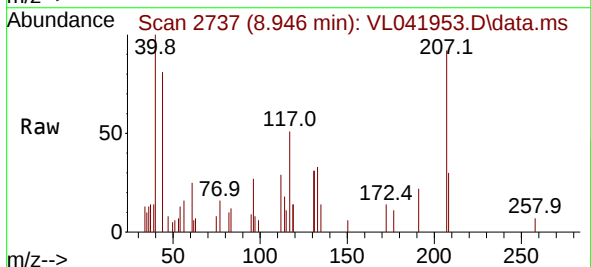
Instrument :
MSVOA_L
ClientSampleId :

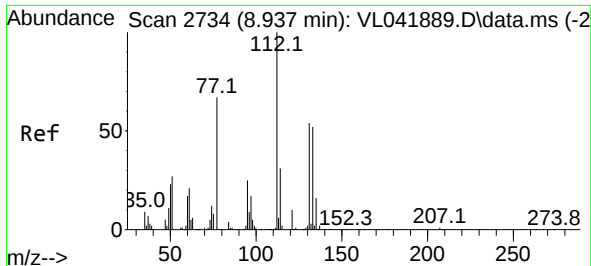
Tgt Ion:117 Resp: 321541
Ion Ratio Lower Upper
117 100
82 64.5 54.2 81.4
119 31.8 25.0 37.6



#56
1,1,1,2-Tetrachloroethane
Concen: 0.036 ppbv
RT: 8.946 min Scan# 2737
Delta R.T. 0.007 min
Lab File: VL041953.D
Acq: 27 Jan 2025 15:40

Tgt Ion:131 Resp: 577
Ion Ratio Lower Upper
131 100
133 114.4 76.0 114.0#
119 0.0 49.7 74.5#





#57

Chlorobenzene

Concen: 0.039 ppbv

RT: 8.933 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL041953.D

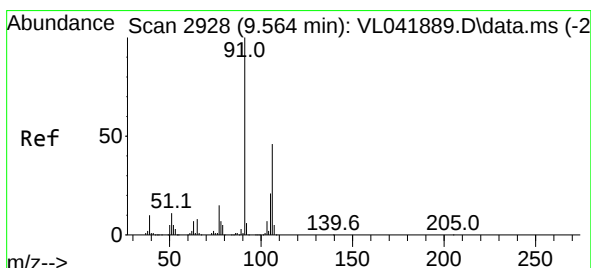
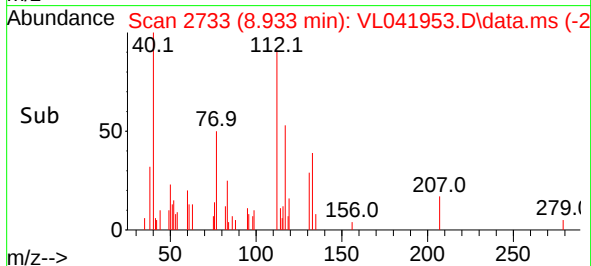
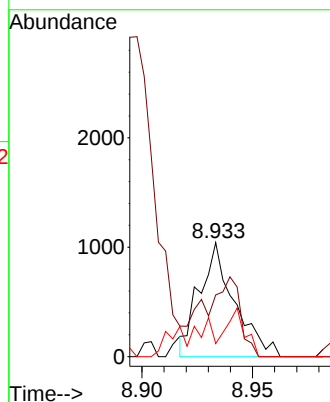
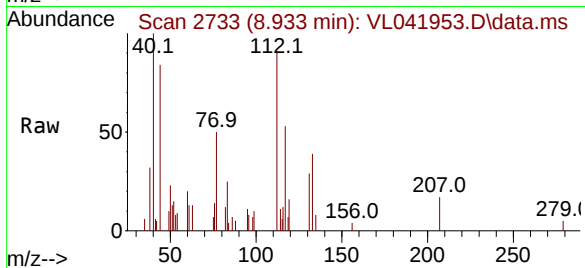
Acq: 27 Jan 2025 15:40

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	112	Resp:	1148
Ion	Ratio	Lower	Upper
112	100		
77	54.2	54.6	82.0#
114	11.5	28.2	34.4#



#59

m/p-Xylene

Concen: 0.031 ppbv

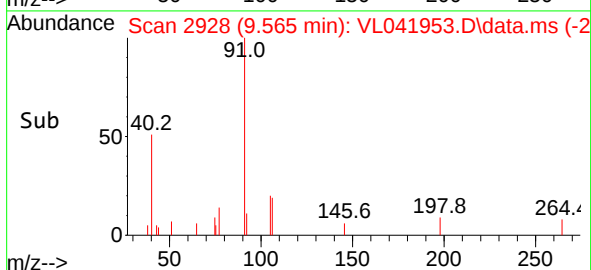
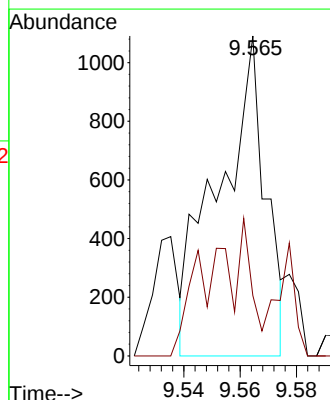
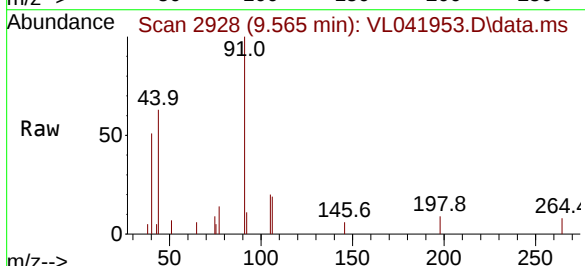
RT: 9.565 min Scan# 2928

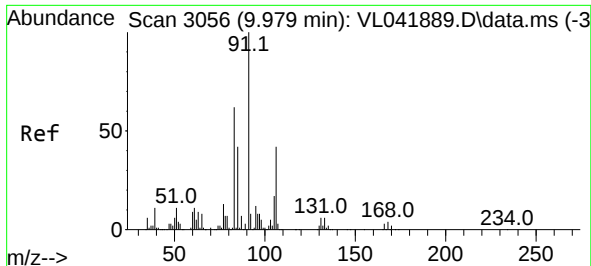
Delta R.T. 0.000 min

Lab File: VL041953.D

Acq: 27 Jan 2025 15:40

Tgt Ion:	91	Resp:	1263
Ion	Ratio	Lower	Upper
91	100		
106	51.6	36.0	54.0

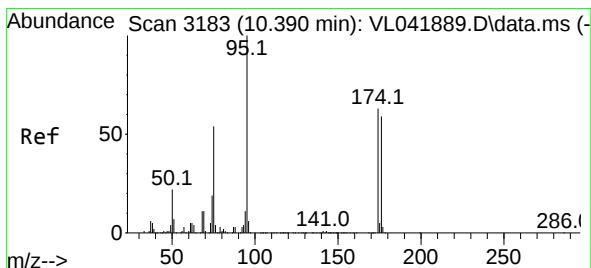
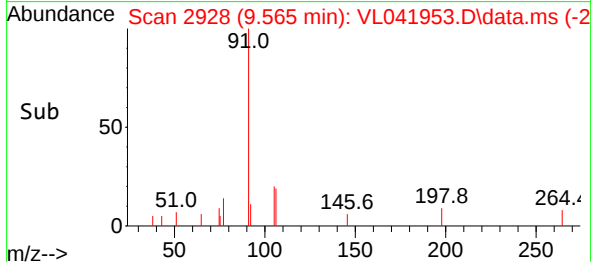
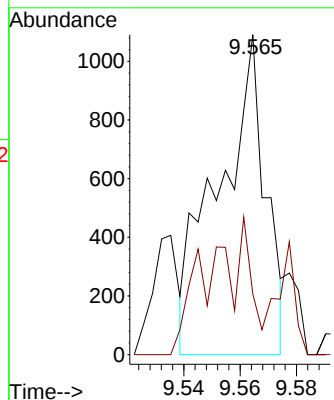
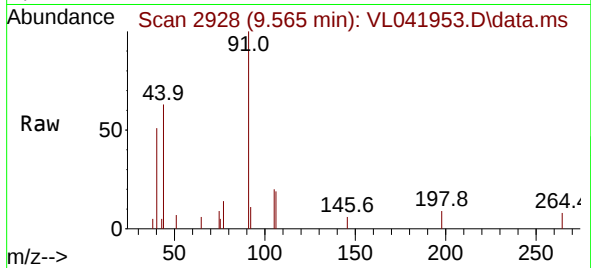




#60
o-Xylene
Concen: 0.032 ppbv
RT: 9.565 min Scan# 2928
Delta R.T. -0.414 min
Lab File: VL041953.D
Acq: 27 Jan 2025 15:40

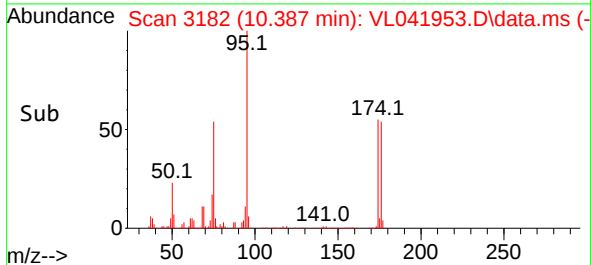
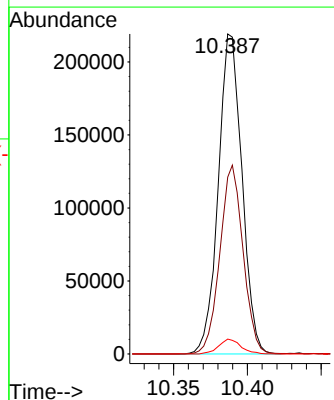
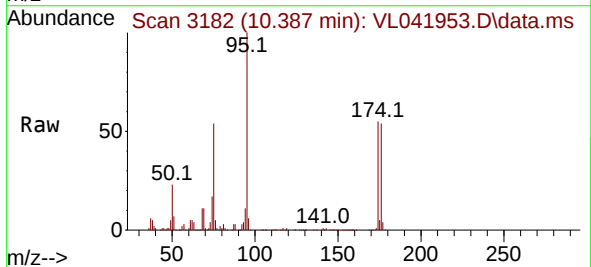
Instrument :
MSVOA_L
ClientSampleId :

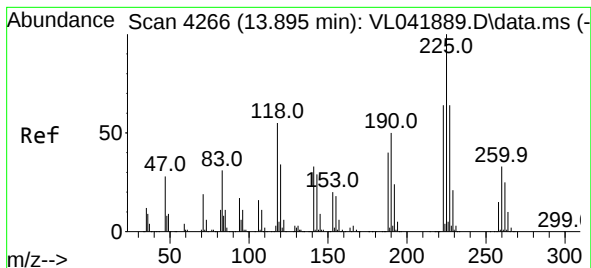
Tgt Ion: 91 Resp: 1263
Ion Ratio Lower Upper
91 100
106 51.6 21.3 63.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.661 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. -0.003 min
Lab File: VL041953.D
Acq: 27 Jan 2025 15:40

Tgt Ion: 95 Resp: 244683
Ion Ratio Lower Upper
95 100
174 58.1 49.0 73.4
175 4.4 3.8 5.8





#78

Hexachloro-1,3-Butadiene

Concen: 0.036 ppbv

RT: 13.895 min Scan# 41

Delta R.T. 0.000 min

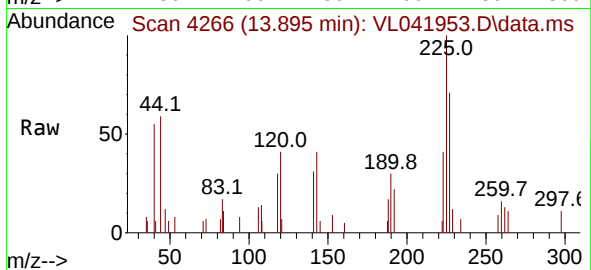
Lab File: VL041953.D

Acq: 27 Jan 2025 15:40

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:225 Resp: 797

Ion Ratio Lower Upper

225 100

223 57.8 50.8 76.2

227 53.7 50.3 75.5

