

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012025\
 Data File : VL041929.D
 Acq On : 20 Jan 2025 20:26
 Operator : SY/MD
 Sample : Q1138-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 21 03:08:08 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

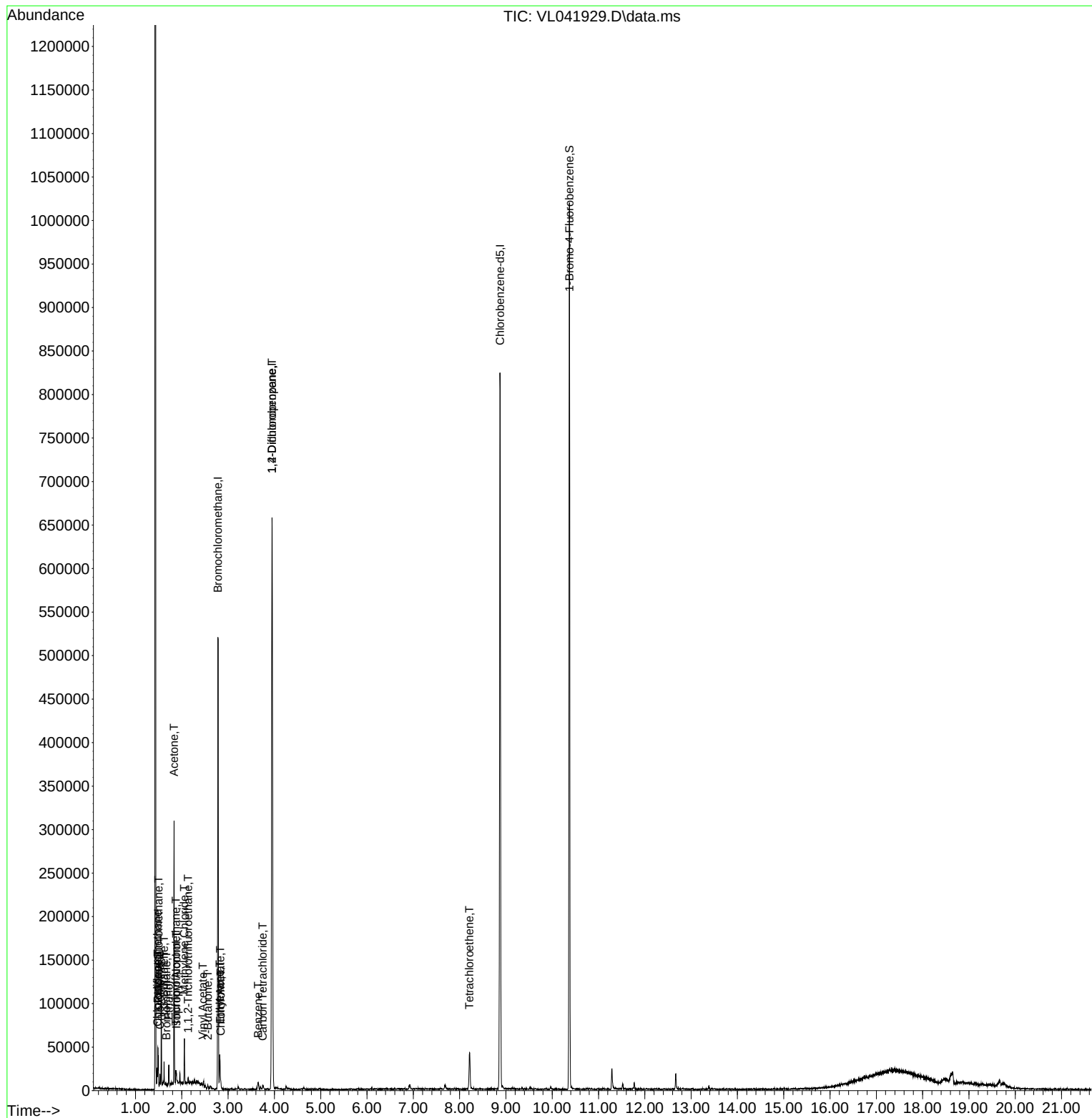
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

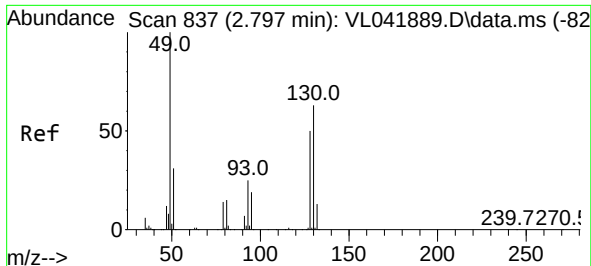
Internal Standards						
1) Bromochloromethane	2.781	49	140403	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.949	114	383832	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.875	117	331576	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	256977	9.840	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	8462	0.442	ppbv	92
3) Chlorodifluoromethane	1.473	51	11312	0.565	ppbv #	76
4) Chloromethane	1.528	50	3664	0.509	ppbv	92
6) Bromomethane	1.667	94	110	0.032	ppbv #	36
9) Propene	1.483	41	3172	0.384	ppbv	88
11) Trichlorofluoromethane	1.874	101	4275	0.215	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.136	101	1056	0.068	ppbv	98
13) Ethanol	1.719	45	8228	13.611	ppbv #	31
15) Acetone	1.832	43	123835	7.343	ppbv	98
16) 1,3-Butadiene	1.615	39	1472	0.194	ppbv #	29
19) Isopropyl Alcohol	1.884	45	4447	0.445	ppbv #	1
20) Methylene Chloride	2.056	84	5944	0.892	ppbv	95
23) Vinyl Acetate	2.454	43	543	0.065	ppbv #	78
25) Ethyl Acetate	2.829	43	2064	0.045	ppbv #	74
26) Hexane	2.819	57	7434	0.413	ppbv #	47
29) Chloroform	2.842	83	1104	0.039	ppbv	85
34) 2-Butanone	2.561	43	3017	0.124	ppbv	97
35) Carbon Tetrachloride	3.745	117	806	0.033	ppbv	84
36) Benzene	3.651	78	4670	0.133	ppbv #	76
39) 1,2-Dichloropropane	3.949	63	97259	7.876	ppbv #	23
52) Tetrachloroethene	8.212	164	6811	0.558	ppbv #	84

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

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Jan 21 03:08:08 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
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

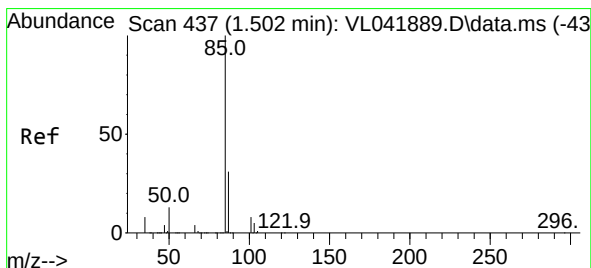
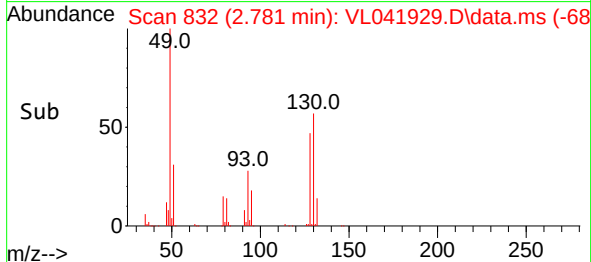
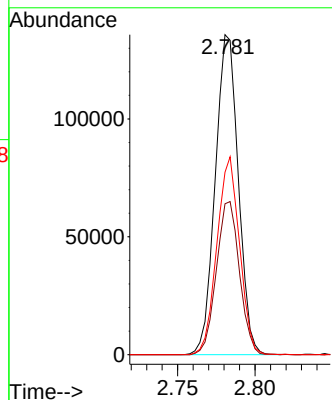
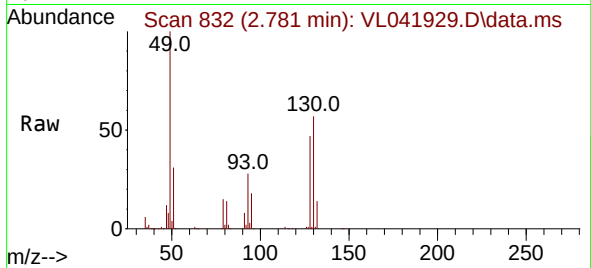




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.781 min Scan# 81
 Delta R.T. -0.016 min
 Lab File: VL041929.D
 Acq: 20 Jan 2025 20:26

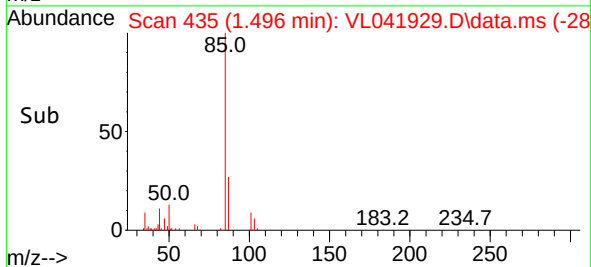
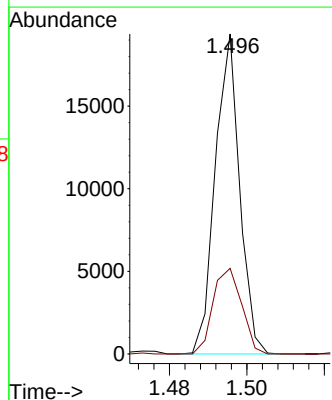
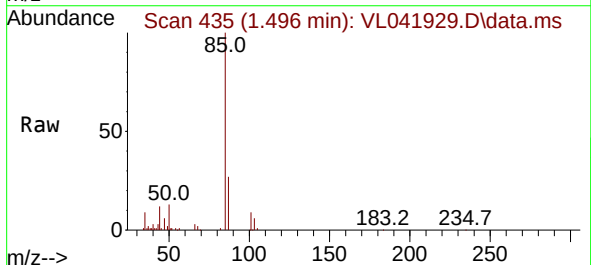
Instrument :
 MSVOA_L
 ClientSampleId :

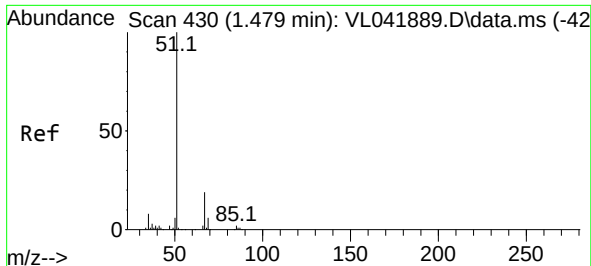
Tgt Ion: 49 Resp: 140403
 Ion Ratio Lower Upper
 49 100
 128 47.9 24.3 73.0
 130 60.6 31.1 93.2



#2
 Dichlorodifluoromethane
 Concen: 0.442 ppbv
 RT: 1.496 min Scan# 435
 Delta R.T. -0.006 min
 Lab File: VL041929.D
 Acq: 20 Jan 2025 20:26

Tgt Ion: 85 Resp: 8462
 Ion Ratio Lower Upper
 85 100
 87 26.7 24.9 37.3

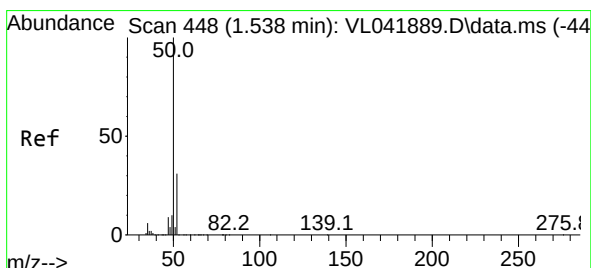
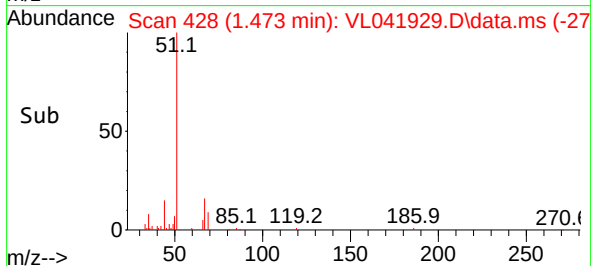
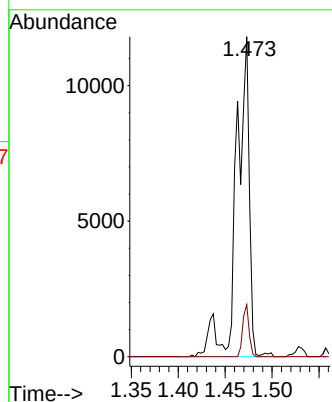
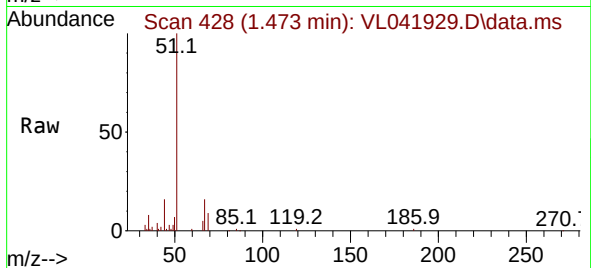




#3
Chlorodifluoromethane
Concen: 0.565 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

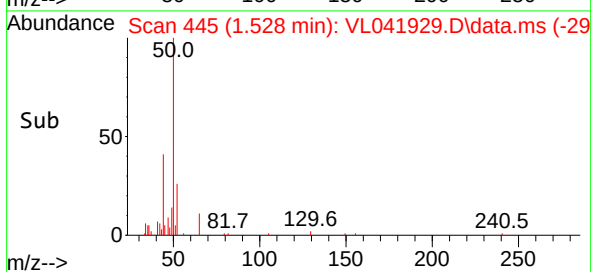
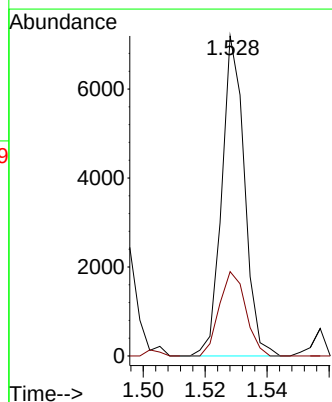
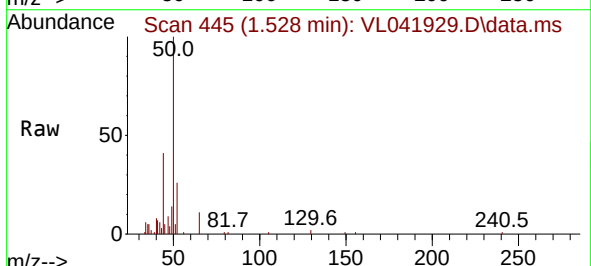
Instrument :
MSVOA_L
ClientSampleId :

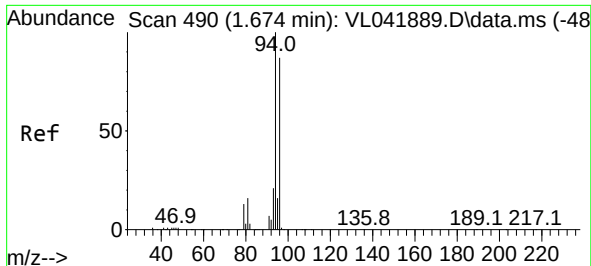
Tgt Ion: 51 Resp: 11312
Ion Ratio Lower Upper
51 100
67 7.9 15.0 22.4#



#4
Chloromethane
Concen: 0.509 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.010 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

Tgt Ion: 50 Resp: 3664
Ion Ratio Lower Upper
50 100
52 26.3 24.6 36.8

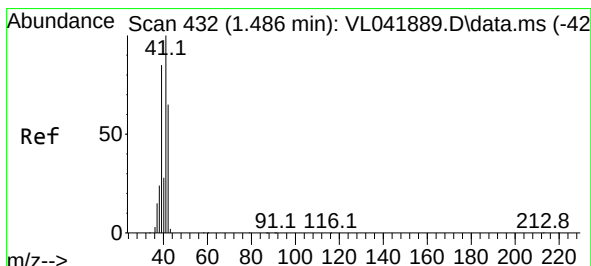
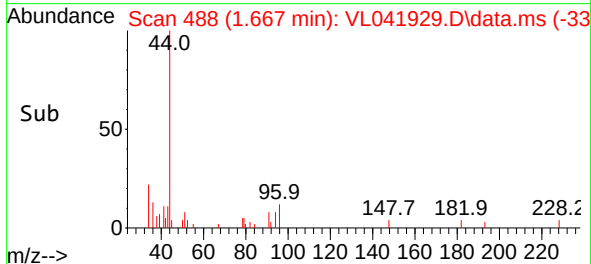
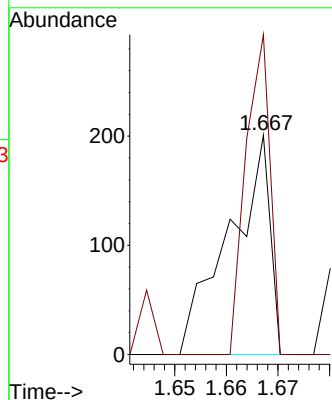
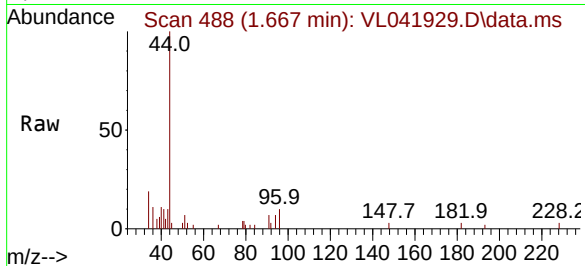




#6
Bromomethane
Concen: 0.032 ppbv
RT: 1.667 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

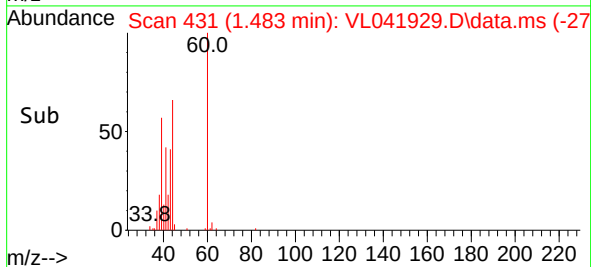
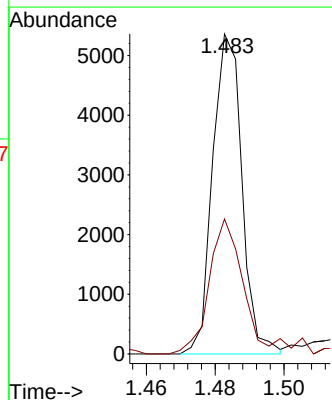
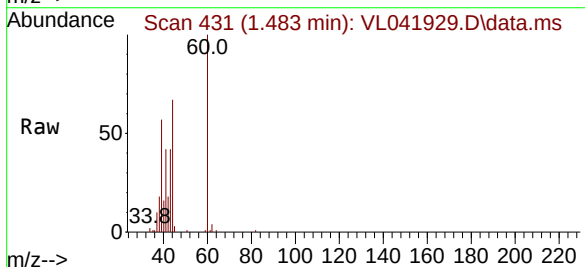
Instrument :
MSVOA_L
ClientSampleId :

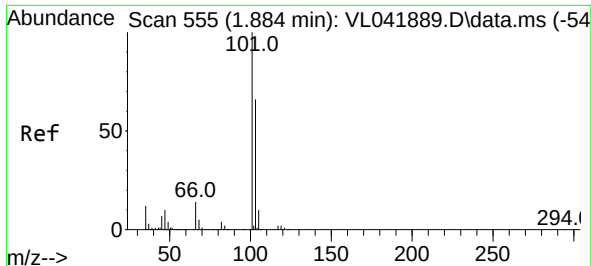
Tgt Ion: 94 Resp: 110
Ion Ratio Lower Upper
94 100
96 145.8 69.5 104.3#



#9
Propene
Concen: 0.384 ppbv
RT: 1.483 min Scan# 431
Delta R.T. -0.003 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

Tgt Ion: 41 Resp: 3172
Ion Ratio Lower Upper
41 100
42 55.5 52.0 78.0

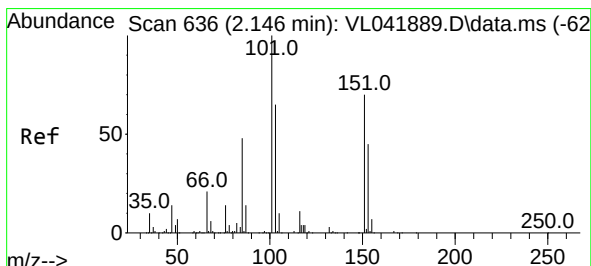
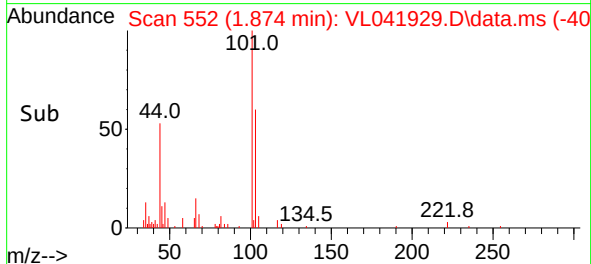
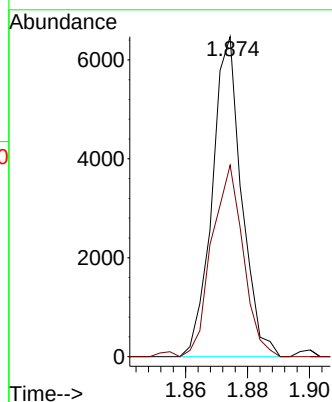
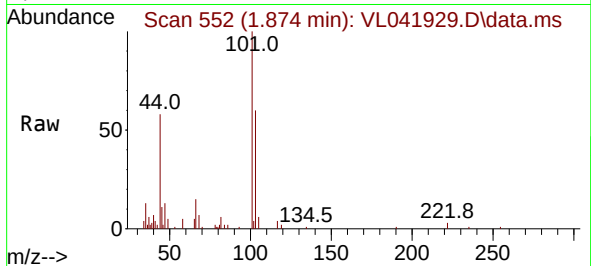




#11
 Trichlorofluoromethane
 Concen: 0.215 ppbv
 RT: 1.874 min Scan# 51
 Delta R.T. -0.010 min
 Lab File: VL041929.D
 Acq: 20 Jan 2025 20:26

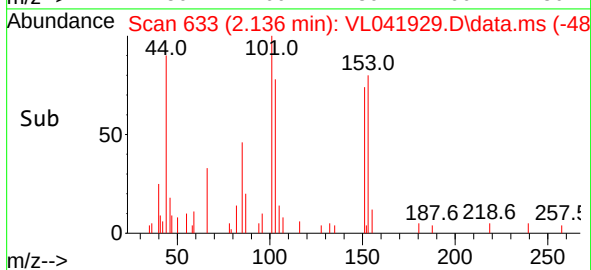
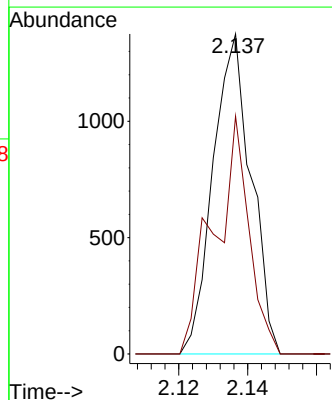
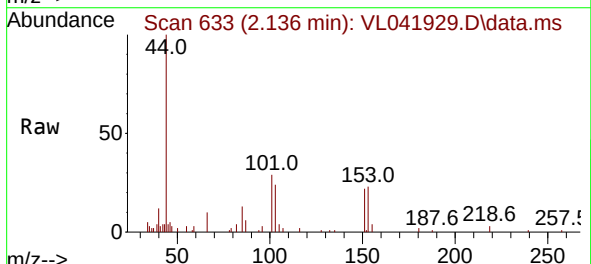
Instrument :
 MSVOA_L
 ClientSampleId :

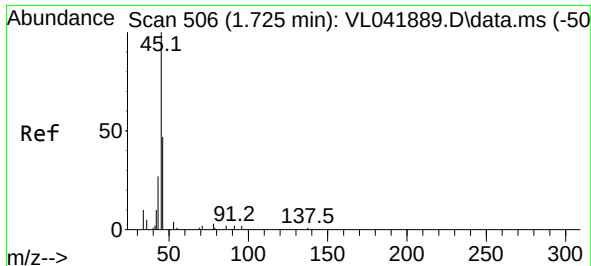
Tgt Ion:101 Resp: 4275
 Ion Ratio Lower Upper
 101 100
 103 59.9 53.1 79.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.068 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.010 min
 Lab File: VL041929.D
 Acq: 20 Jan 2025 20:26

Tgt Ion:101 Resp: 1056
 Ion Ratio Lower Upper
 101 100
 151 68.2 56.1 84.1

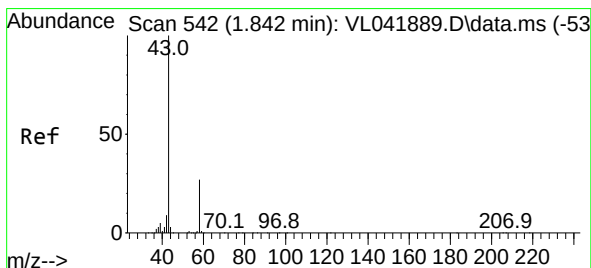
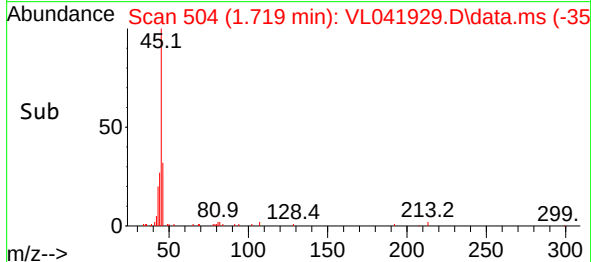
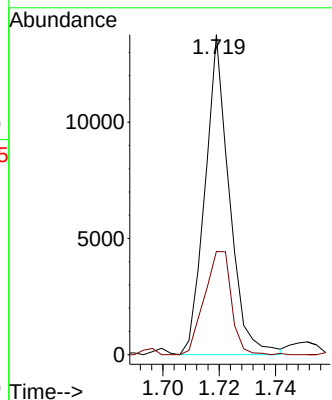
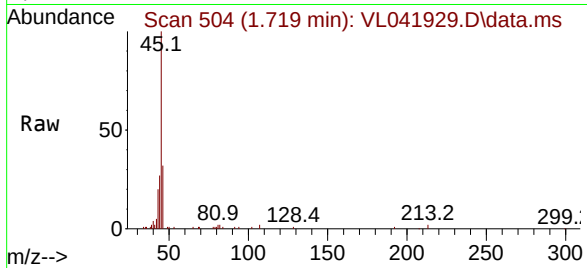




#13
 Ethanol
 Concen: 13.611 ppbv
 RT: 1.719 min Scan# 506
 Delta R.T. -0.006 min
 Lab File: VL041929.D
 Acq: 20 Jan 2025 20:26

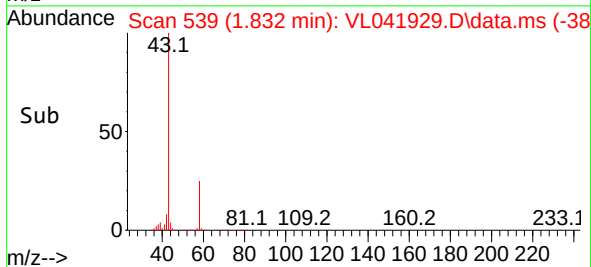
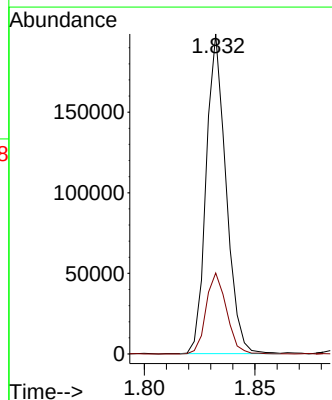
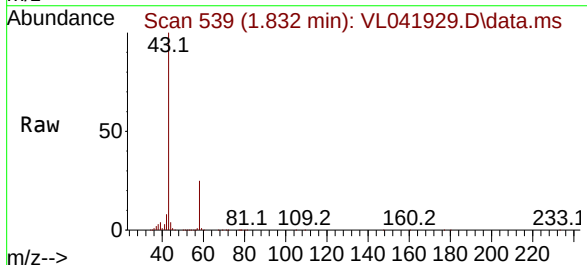
Instrument :
 MSVOA_L
 ClientSampleId :

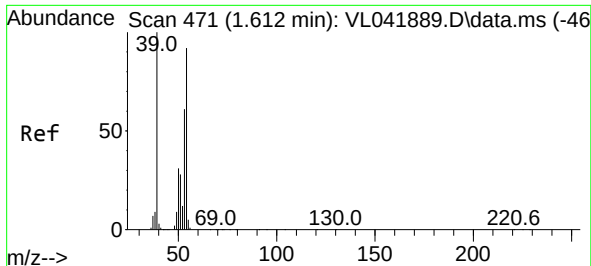
Tgt Ion: 45 Resp: 8228
 Ion Ratio Lower Upper
 45 100
 46 0.0 18.1 72.5#



#15
 Acetone
 Concen: 7.343 ppbv
 RT: 1.832 min Scan# 539
 Delta R.T. -0.010 min
 Lab File: VL041929.D
 Acq: 20 Jan 2025 20:26

Tgt Ion: 43 Resp: 123835
 Ion Ratio Lower Upper
 43 100
 58 26.1 21.9 32.9

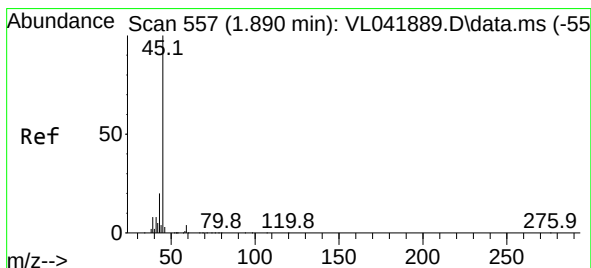
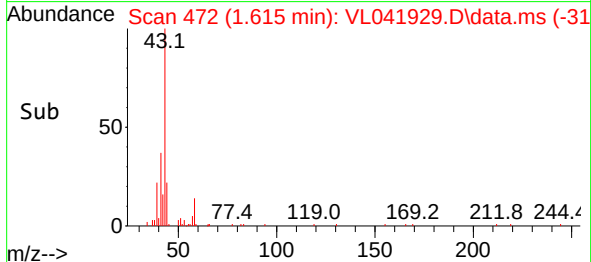
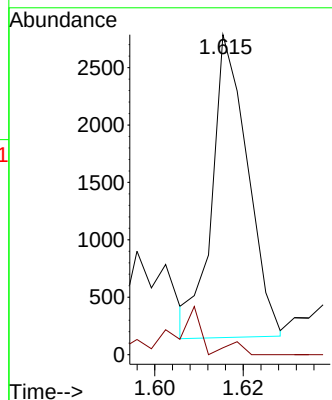
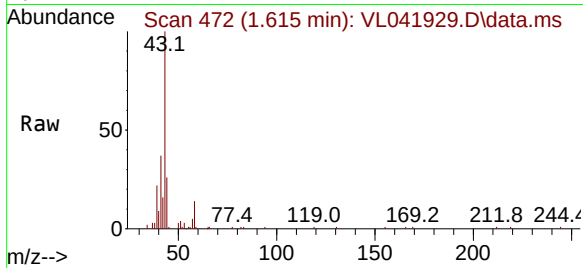




#16
1,3-Butadiene
Concen: 0.194 ppbv
RT: 1.615 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

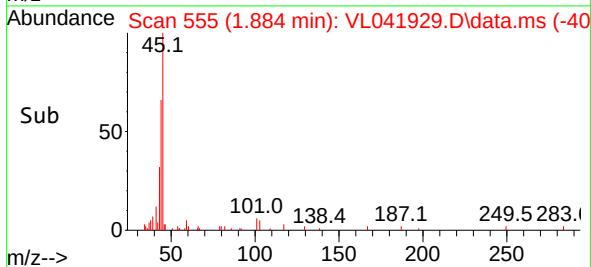
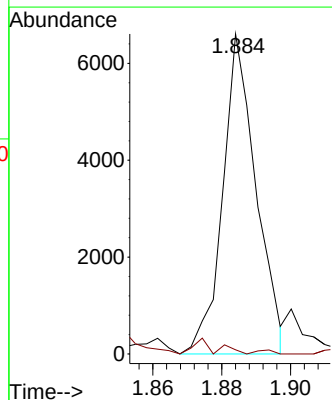
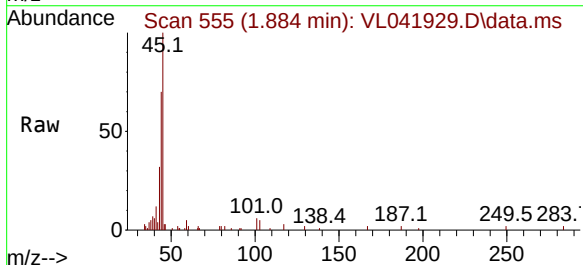
Instrument :
MSVOA_L
ClientSampleId :

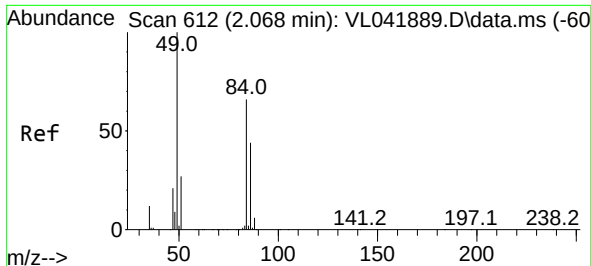
Tgt Ion: 39 Resp: 1472
Ion Ratio Lower Upper
39 100
54 15.6 61.6 92.4#



#19
Isopropyl Alcohol
Concen: 0.445 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.006 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

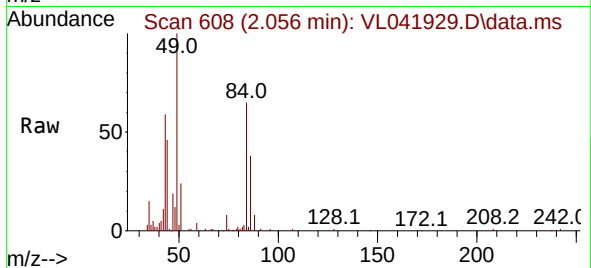
Tgt Ion: 45 Resp: 4447
Ion Ratio Lower Upper
45 100
58 726.8 35.0 52.6#





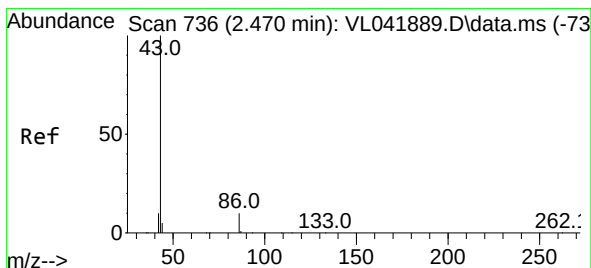
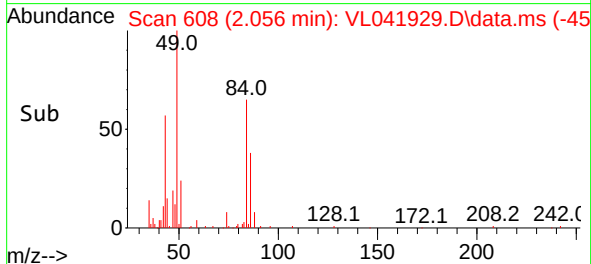
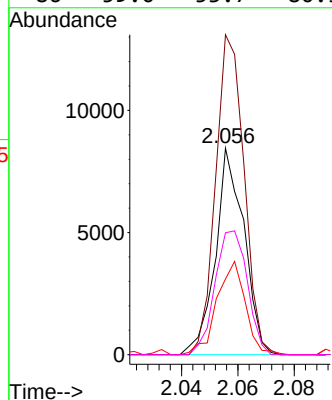
#20
Methylene Chloride
Concen: 0.892 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.013 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 5944

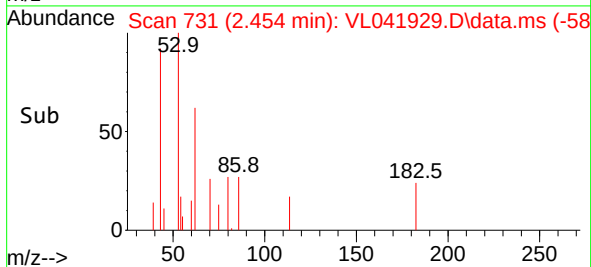
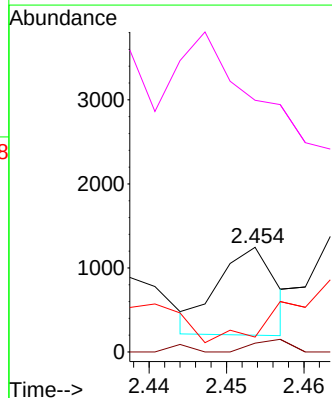
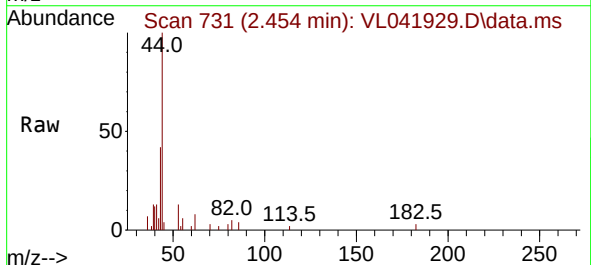
Ion	Ratio	Lower	Upper
84	100		
49	154.9	123.1	184.7
51	36.6	35.8	53.8
86	59.0	53.7	80.5

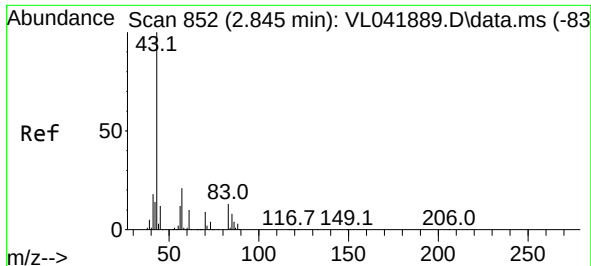


#23
Vinyl Acetate
Concen: 0.065 ppbv
RT: 2.454 min Scan# 731
Delta R.T. -0.016 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

Tgt Ion: 43 Resp: 543

Ion	Ratio	Lower	Upper
43	100		
86	2.0	6.2	9.4#
42	0.0	8.5	12.7#
44	0.0	4.8	7.2#





#25

Ethyl Acetate

Concen: 0.045 ppbv

RT: 2.829 min Scan# 847

Delta R.T. -0.016 min

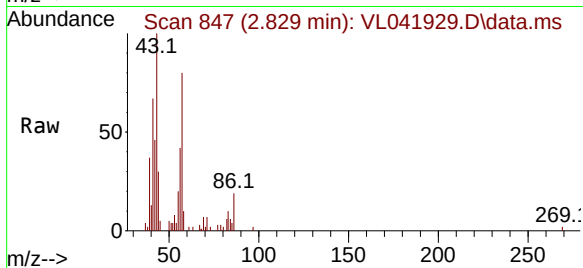
Lab File: VL041929.D

Acq: 20 Jan 2025 20:26

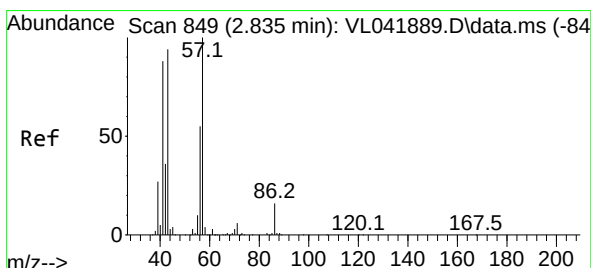
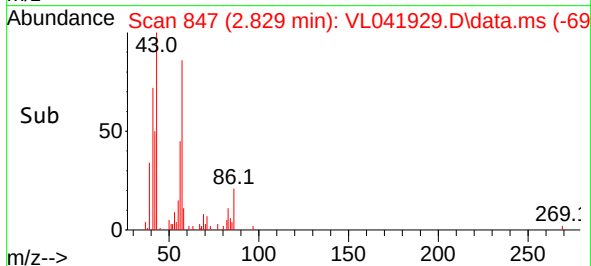
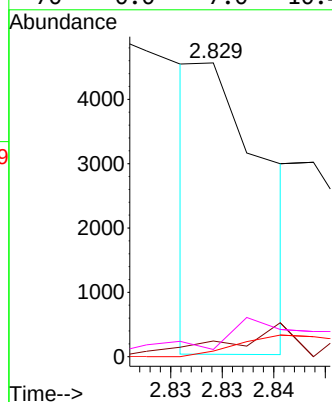
Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 43	Resp: 2064
Ion Ratio	Lower Upper
43 100	
45 0.0	8.2 12.2#
61 0.0	7.4 11.0#
70 0.0	7.0 10.4#



#26

Hexane

Concen: 0.413 ppbv

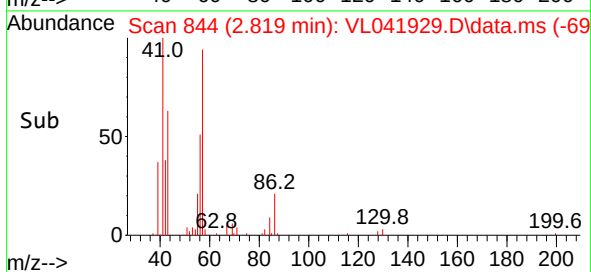
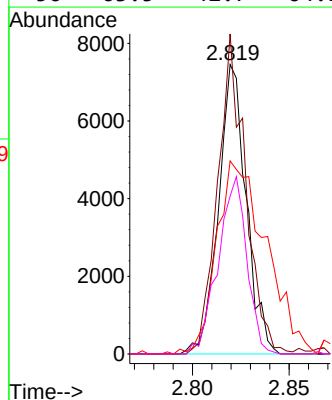
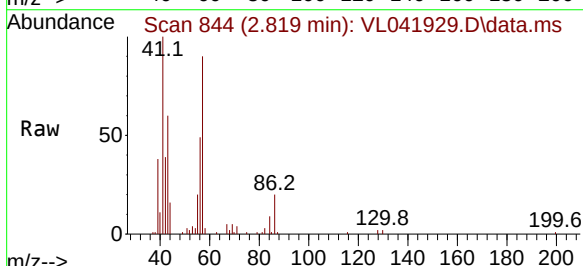
RT: 2.819 min Scan# 844

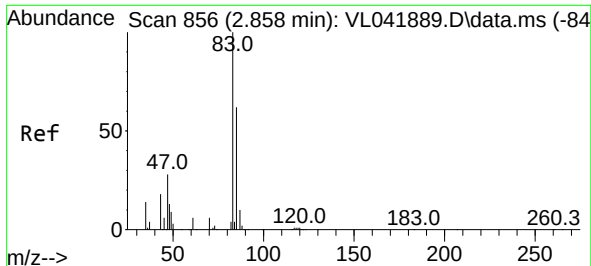
Delta R.T. -0.016 min

Lab File: VL041929.D

Acq: 20 Jan 2025 20:26

Tgt	Ion: 57	Resp:	7434
Ion	Ratio	Lower	Upper
57	100		
41	112.6	73.8	110.8#
43	121.1	197.3	295.9#
56	63.5	42.7	64.1

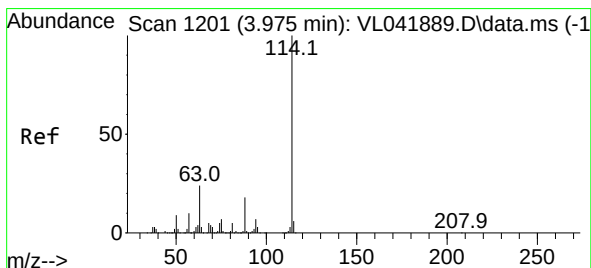
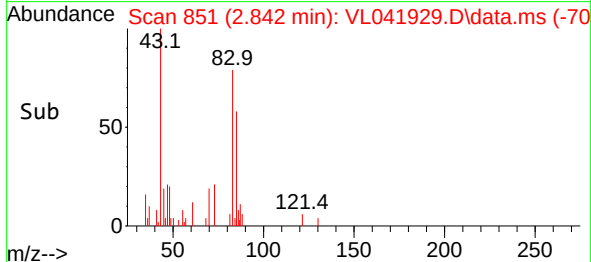
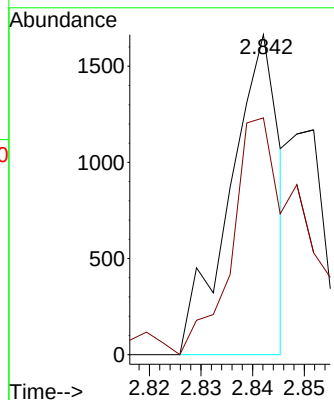
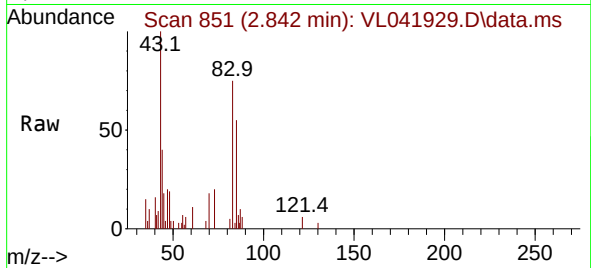




#29
Chloroform
Concen: 0.039 ppbv
RT: 2.842 min Scan# 851
Delta R.T. -0.016 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

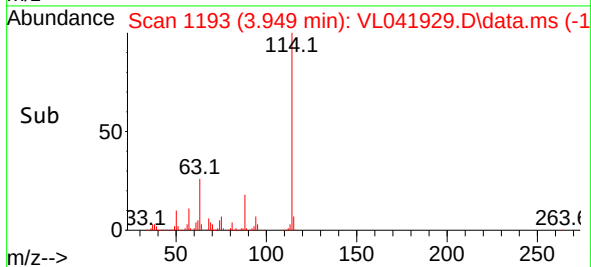
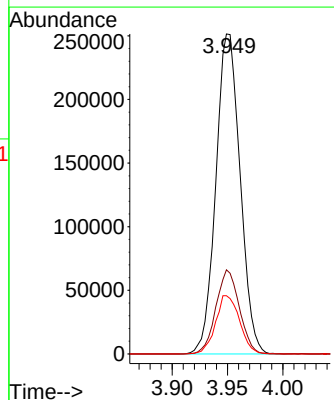
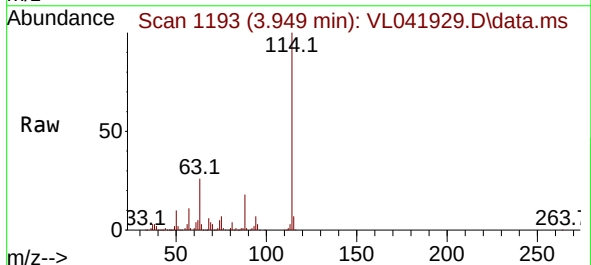
Instrument :
MSVOA_L
ClientSampleId :

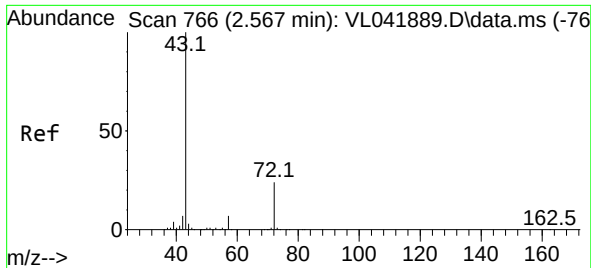
Tgt Ion: 83 Resp: 1104
Ion Ratio Lower Upper
83 100
85 74.0 50.1 75.1



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. -0.026 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

Tgt Ion:114 Resp: 383832
Ion Ratio Lower Upper
114 100
63 25.4 19.8 29.6
88 18.0 14.4 21.6

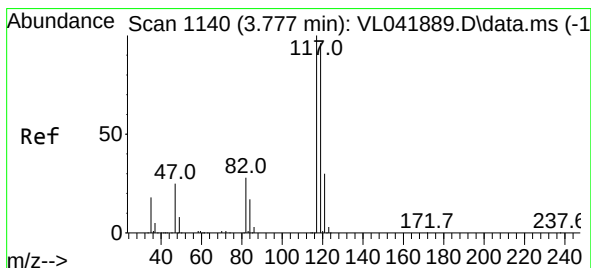
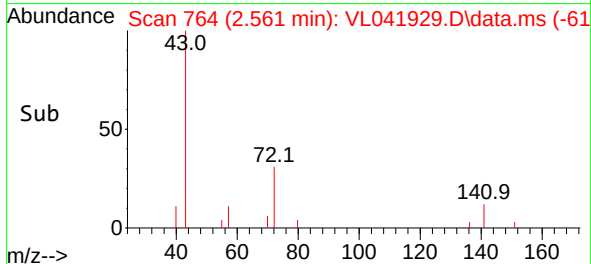
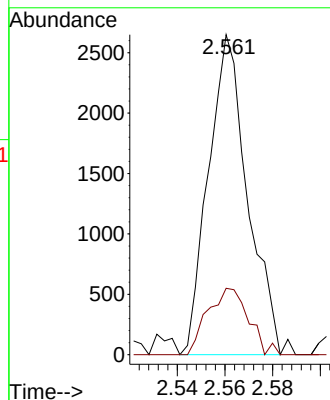
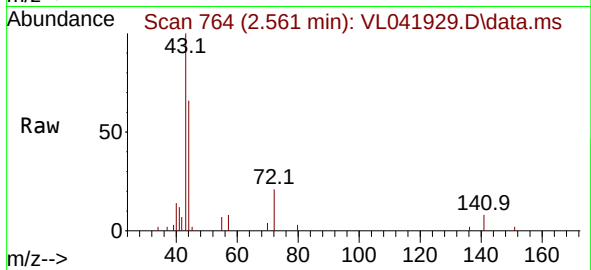




#34
2-Butanone
Concen: 0.124 ppbv
RT: 2.561 min Scan# 70
Delta R.T. -0.006 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

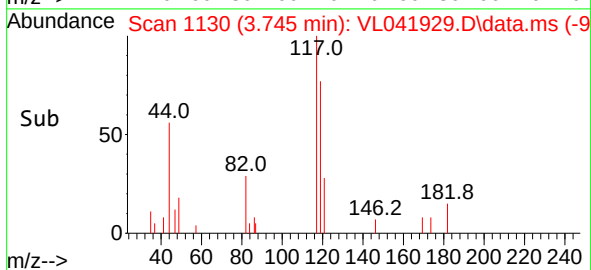
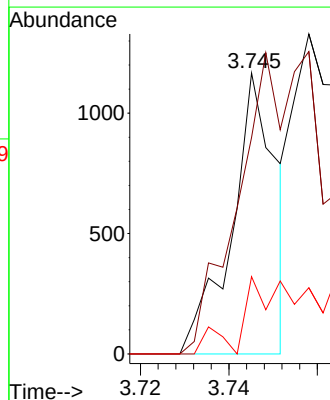
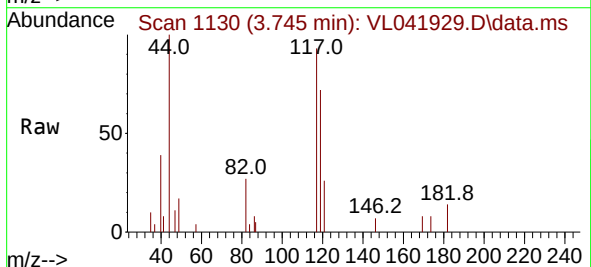
Instrument :
MSVOA_L
ClientSampleId :

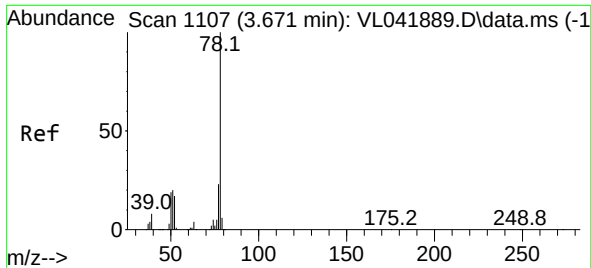
Tgt Ion: 43 Resp: 3017
Ion Ratio Lower Upper
43 100
72 21.7 18.6 28.0



#35
Carbon Tetrachloride
Concen: 0.033 ppbv
RT: 3.745 min Scan# 1130
Delta R.T. -0.032 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

Tgt Ion: 117 Resp: 806
Ion Ratio Lower Upper
117 100
119 77.0 76.9 115.3
121 27.5 23.8 35.6





#36

Benzene

Concen: 0.133 ppbv

RT: 3.651 min Scan# 1107

Delta R.T. -0.019 min

Lab File: VL041929.D

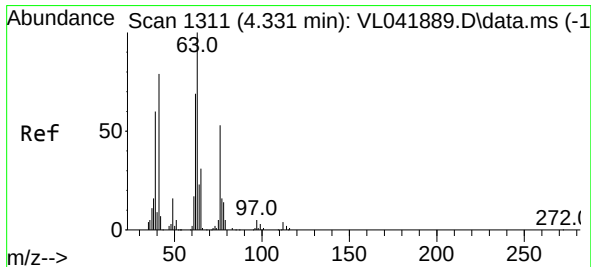
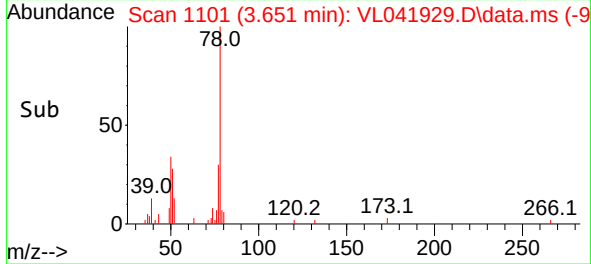
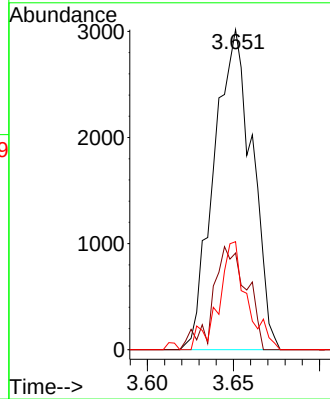
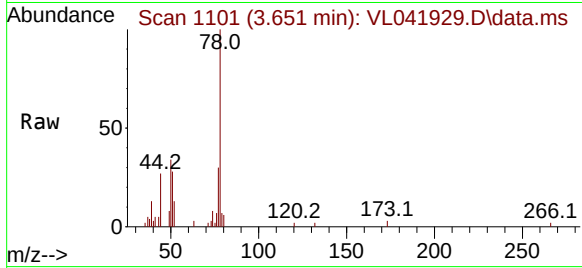
Acq: 20 Jan 2025 20:26

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 78	Resp: 4670
Ion Ratio	Lower Upper
78 100	
77 30.2	18.1 27.1#
50 33.8	15.2 22.8#



#39

1,2-Dichloropropane

Concen: 7.876 ppbv

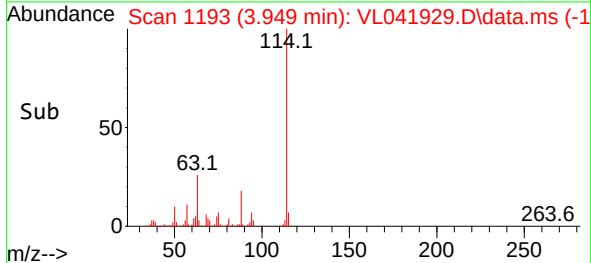
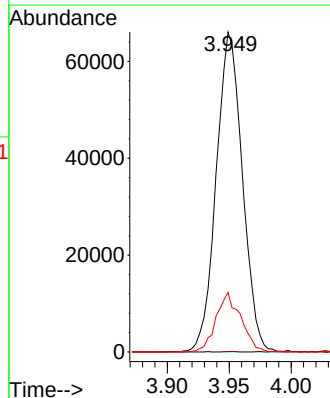
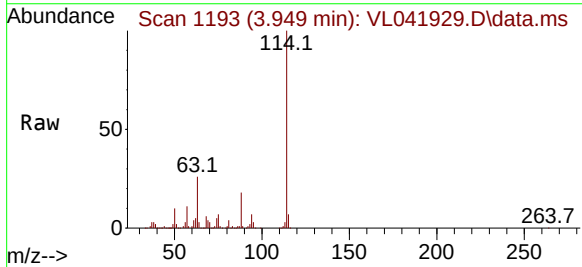
RT: 3.949 min Scan# 1193

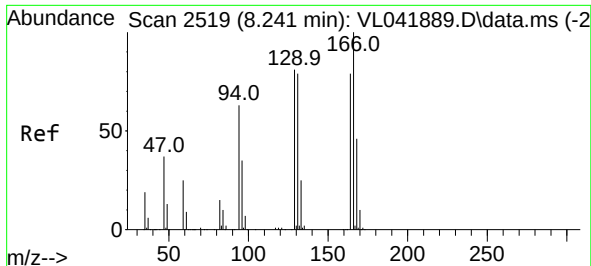
Delta R.T. -0.382 min

Lab File: VL041929.D

Acq: 20 Jan 2025 20:26

Tgt Ion: 63	Resp: 97259
Ion Ratio	Lower Upper
63 100	
41 0.1	63.7 95.5#
62 18.6	55.4 83.2#

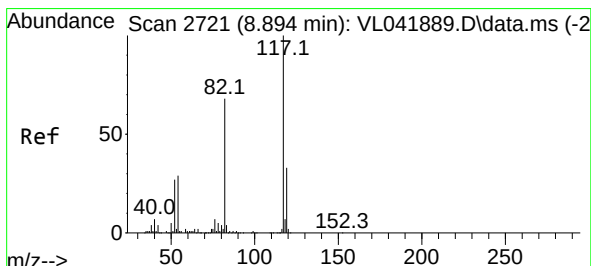
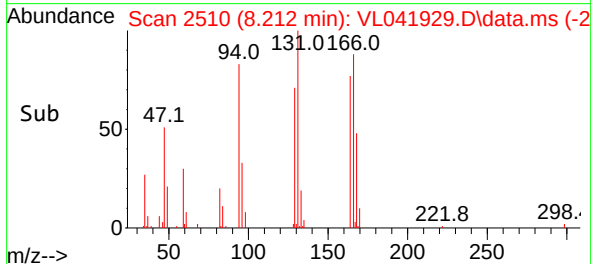
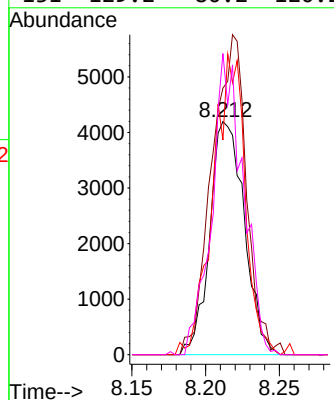
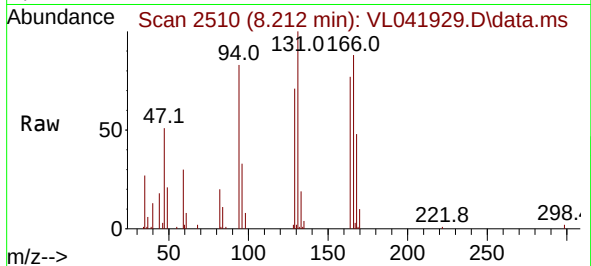




#52
Tetrachloroethene
Concen: 0.558 ppbv
RT: 8.212 min Scan# 21
Delta R.T. -0.029 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

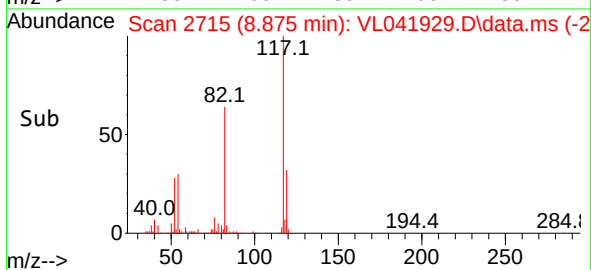
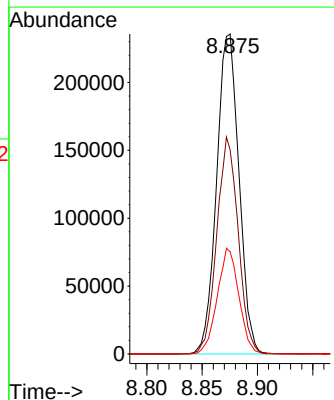
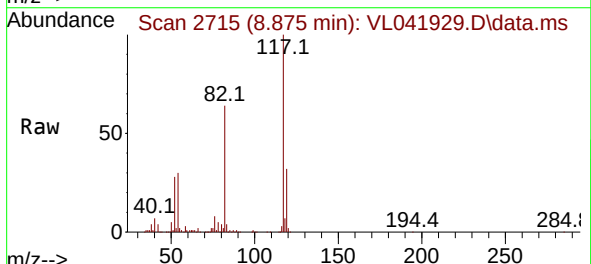
Instrument :
MSVOA_L
ClientSampleId :

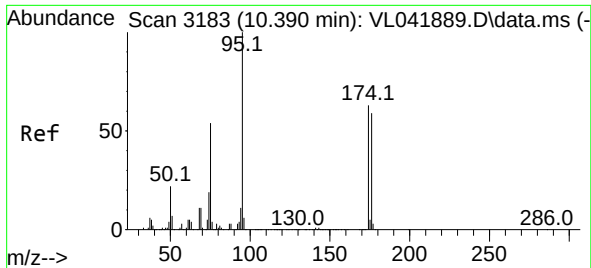
Tgt Ion:164 Resp: 6811
Ion Ratio Lower Upper
164 100
166 114.3 100.8 151.2
129 92.1 82.0 123.0
131 129.2 80.2 120.2#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.019 min
Lab File: VL041929.D
Acq: 20 Jan 2025 20:26

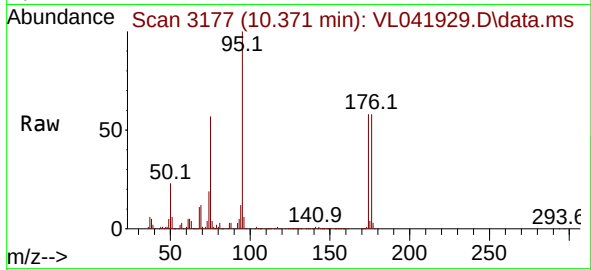
Tgt Ion:117 Resp: 331576
Ion Ratio Lower Upper
117 100
82 64.9 54.2 81.4
119 31.9 25.0 37.6





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.840 ppbv
 RT: 10.371 min Scan# 31
 Delta R.T. -0.019 min
 Lab File: VL041929.D
 Acq: 20 Jan 2025 20:26

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 95 Resp: 256977

Ion	Ratio	Lower	Upper
95	100		
174	59.2	49.0	73.4
175	4.4	3.8	5.8

