

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
 Data File : VL041847.D
 Acq On : 07 Jan 2025 16:59
 Operator : SY/MD
 Sample : Q1031-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 08 03:55:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jan 08 03:26:12 2025
 Response via : Initial Calibration

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

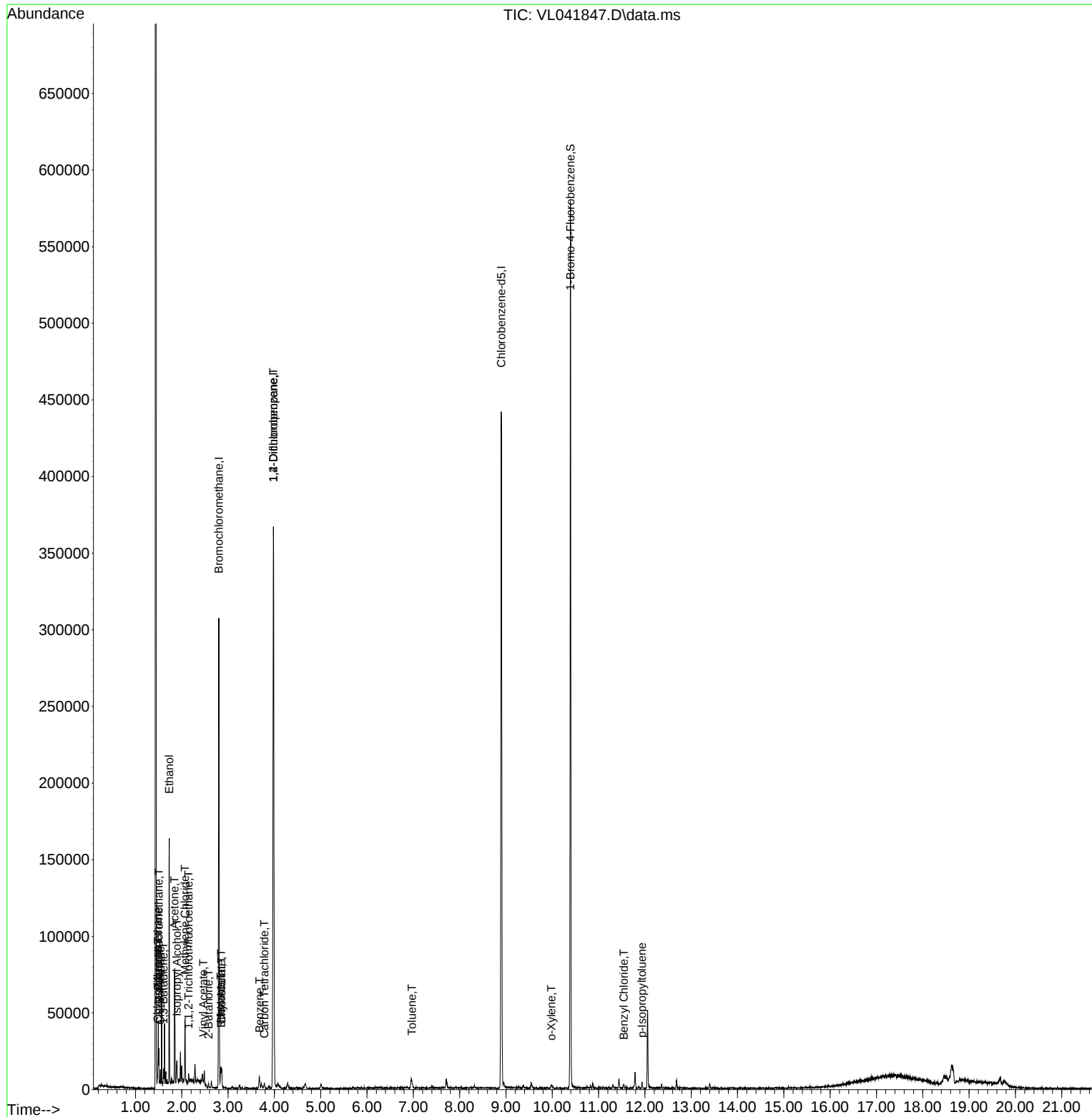
Internal Standards						
1) Bromochloromethane	2.800	49	83947	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	185037	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	157066	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	129360	9.616	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	5328	0.387	ppbv	96
3) Chlorodifluoromethane	1.479	51	5658	0.430	ppbv #	85
4) Chloromethane	1.538	50	2740	0.484	ppbv	96
9) Propene	1.489	41	4659	1.017	ppbv	88
12) 1,1,2-Trichlorotrifluo...	2.146	101	394	0.038	ppbv #	6
13) Ethanol	1.729	45	54981	91.346	ppbv	100
15) Acetone	1.842	43	33988	2.199	ppbv	95
16) 1,3-Butadiene	1.606	39	1339	0.221	ppbv #	48
19) Isopropyl Alcohol	1.894	45	5304	0.731	ppbv #	1
20) Methylene Chloride	2.069	84	5712	1.293	ppbv	92
23) Vinyl Acetate	2.463	43	929	0.193	ppbv #	73
25) Ethyl Acetate	2.849	43	1575	0.061	ppbv #	88
26) Hexane	2.839	57	2079	0.231	ppbv #	48
29) Chloroform	2.858	83	4282	0.256	ppbv	100
34) 2-Butanone	2.577	43	1609	0.110	ppbv	99
35) Carbon Tetrachloride	3.784	117	1009	0.072	ppbv #	72
36) Benzene	3.677	78	3585	0.203	ppbv #	91
39) 1,2-Dichloropropane	3.978	63	52004	7.605	ppbv #	18
53) Toluene	6.966	91	753	0.048	ppbv #	21
60) o-Xylene	9.979	91	691	0.038	ppbv	89
66) Benzyl Chloride	11.545	91	129	0.059	ppbv #	72
69) p-Isopropyltoluene	11.937	119	1331	0.045	ppbv	96

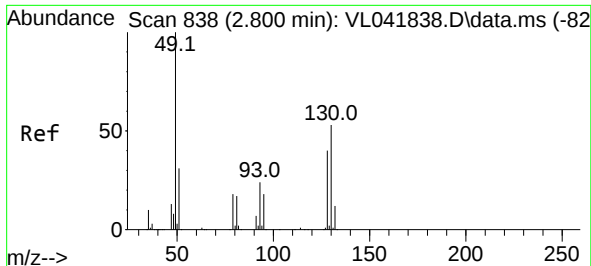
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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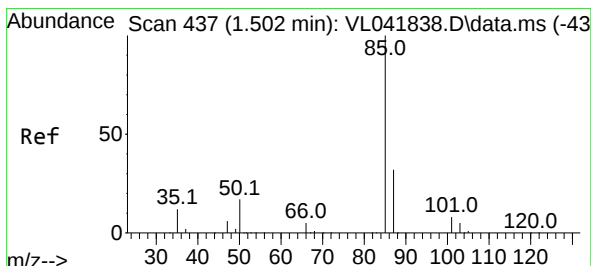
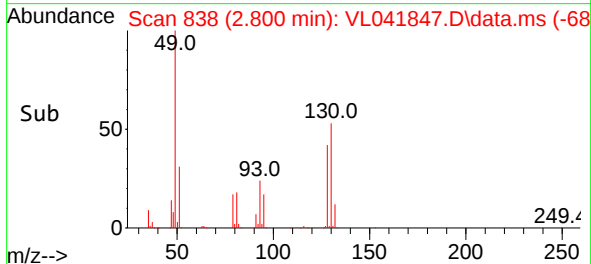
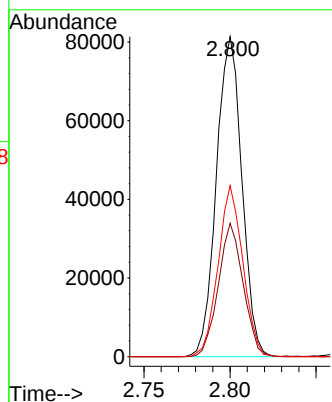
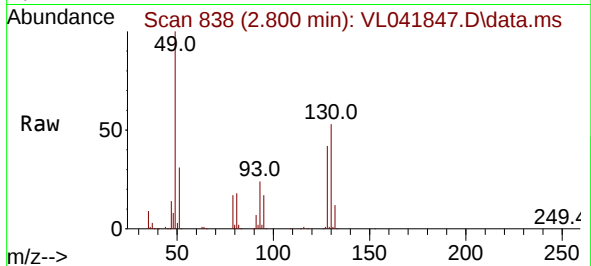




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 838
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

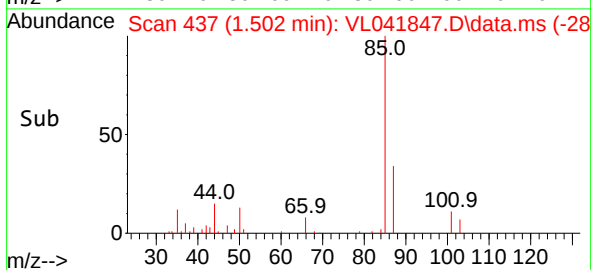
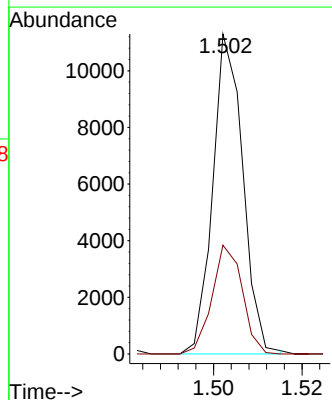
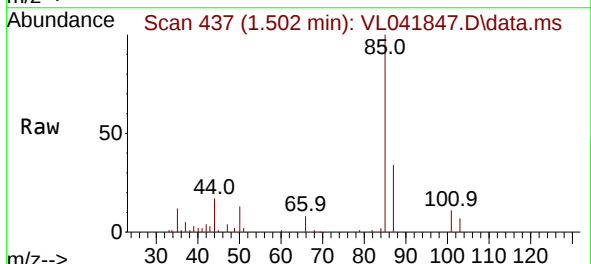
Instrument :
MSVOA_L
ClientSampleId :

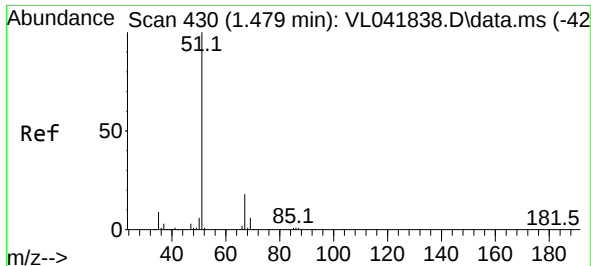
Tgt Ion: 49 Resp: 83947
Ion Ratio Lower Upper
49 100
128 40.6 19.7 59.1
130 51.8 26.4 79.2



#2
Dichlorodifluoromethane
Concen: 0.387 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 85 Resp: 5328
Ion Ratio Lower Upper
85 100
87 34.0 25.6 38.4

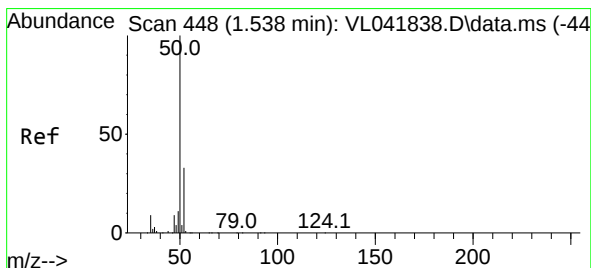
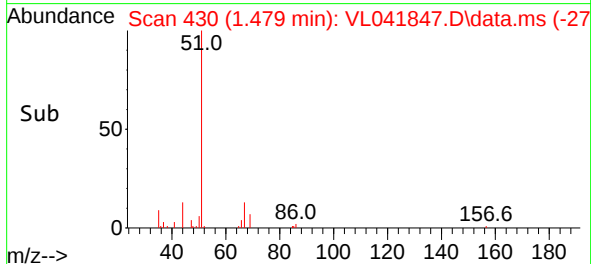
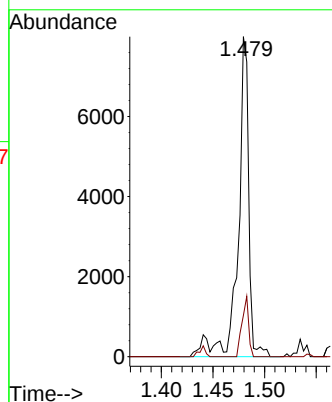
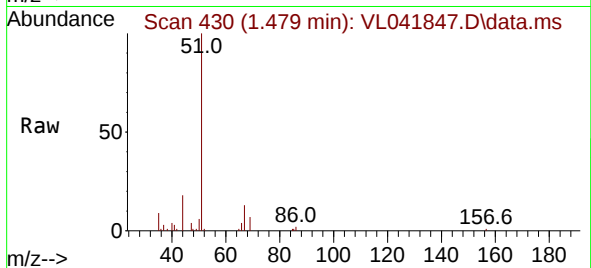




#3
Chlorodifluoromethane
Concen: 0.430 ppbv
RT: 1.479 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

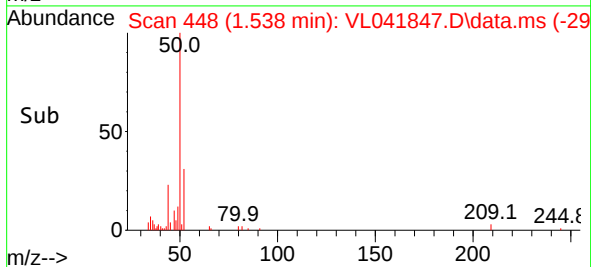
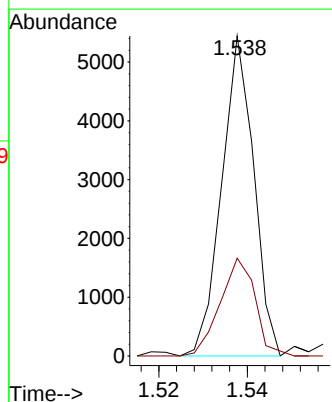
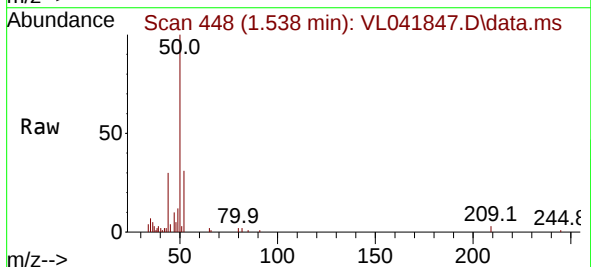
Instrument :
MSVOA_L
ClientSampleId :

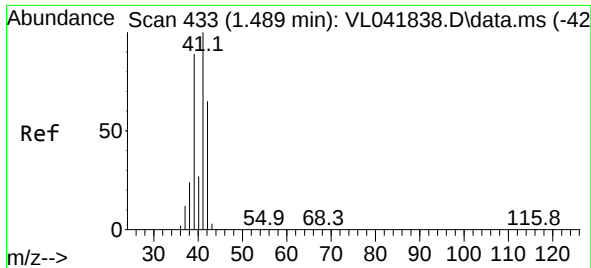
Tgt Ion: 51 Resp: 5658
Ion Ratio Lower Upper
51 100
67 11.8 14.6 22.0#



#4
Chloromethane
Concen: 0.484 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 50 Resp: 2740
Ion Ratio Lower Upper
50 100
52 30.5 26.1 39.1





#9

Propene

Concen: 1.017 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL041847.D

Acq: 07 Jan 2025 16:59

Instrument :

MSVOA_L

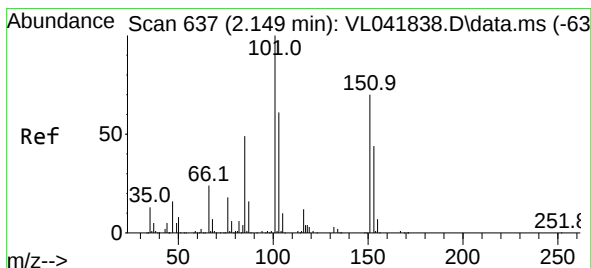
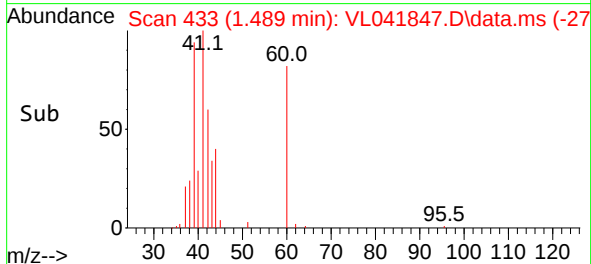
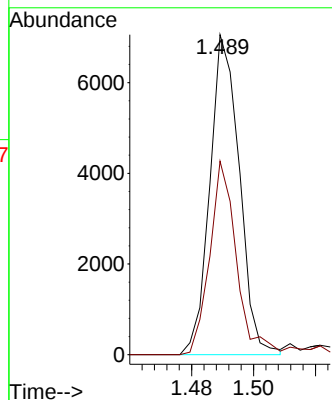
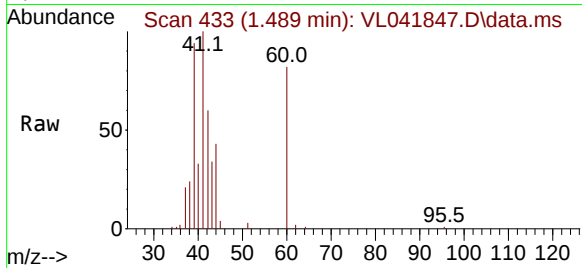
ClientSampleId :

Tgt Ion: 41 Resp: 4659

Ion Ratio Lower Upper

41 100

42 57.4 53.9 80.9



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.038 ppbv

RT: 2.146 min Scan# 636

Delta R.T. -0.003 min

Lab File: VL041847.D

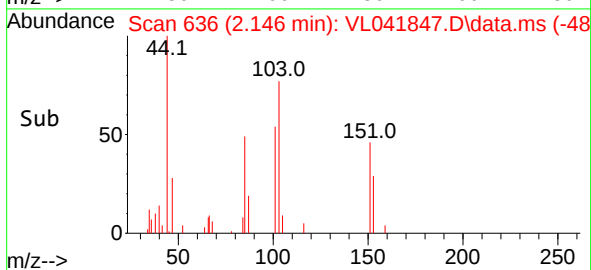
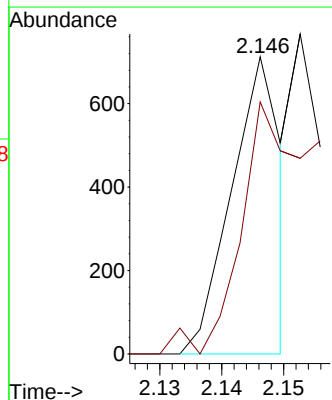
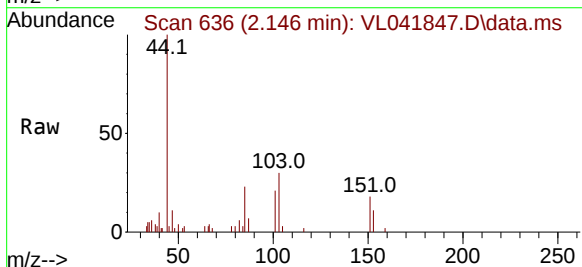
Acq: 07 Jan 2025 16:59

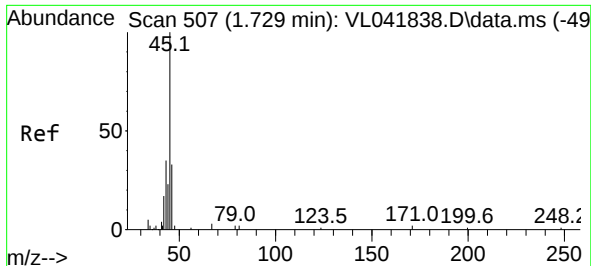
Tgt Ion: 101 Resp: 394

Ion Ratio Lower Upper

101 100

151 141.6 53.2 79.8#

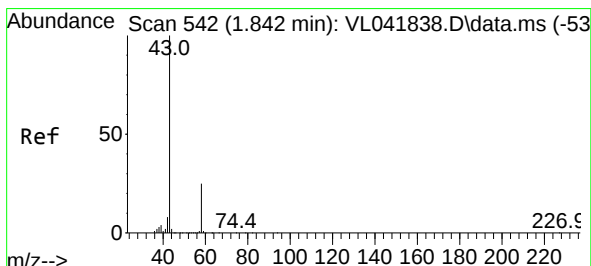
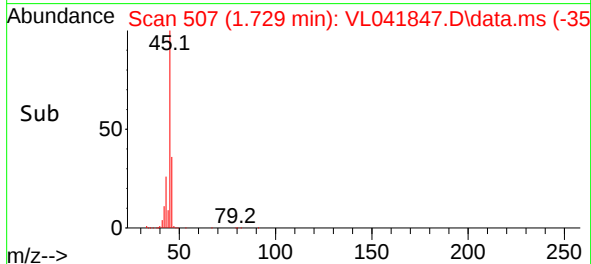
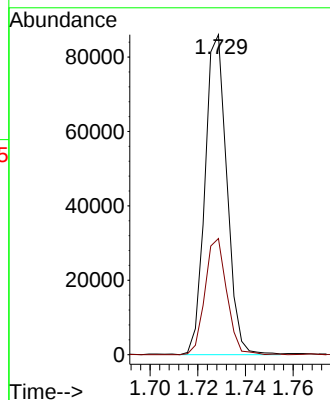
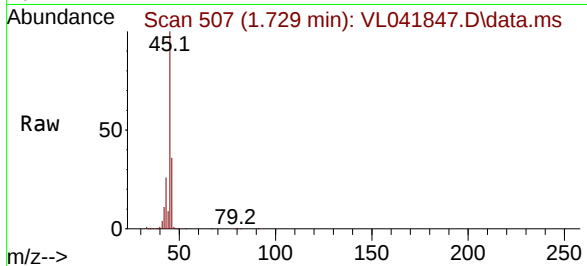




#13
Ethanol
Concen: 91.346 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

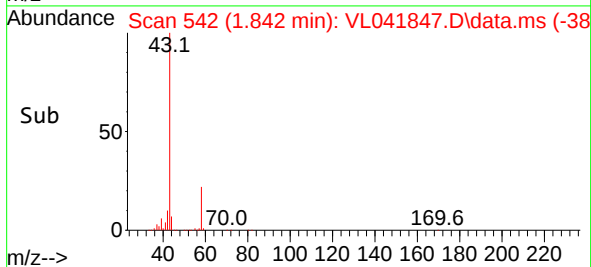
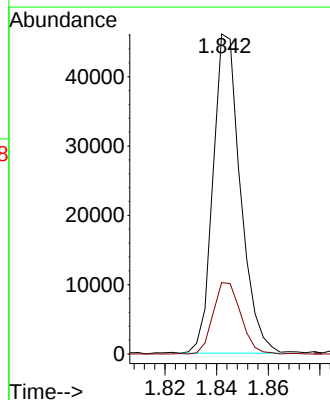
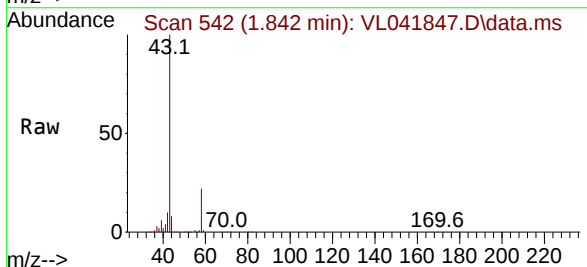
Instrument :
MSVOA_L
ClientSampleId :

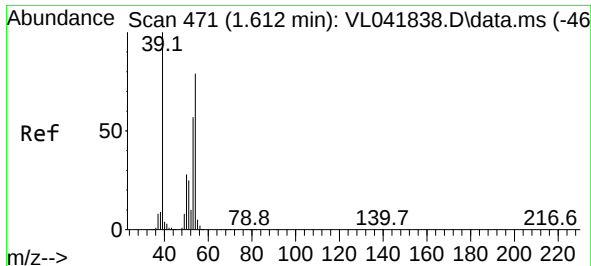
Tgt Ion: 45 Resp: 54981
Ion Ratio Lower Upper
45 100
46 36.5 14.6 58.2



#15
Acetone
Concen: 2.199 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 43 Resp: 33988
Ion Ratio Lower Upper
43 100
58 22.6 20.2 30.4

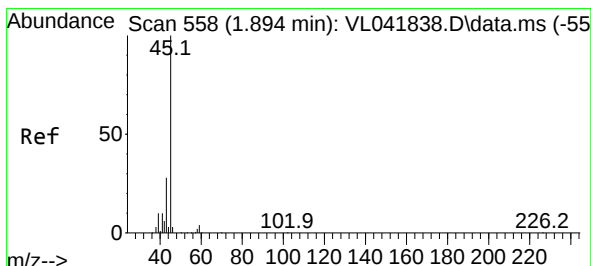
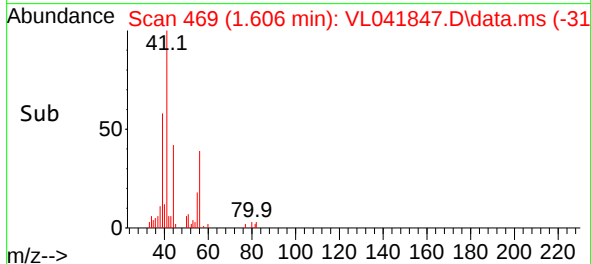
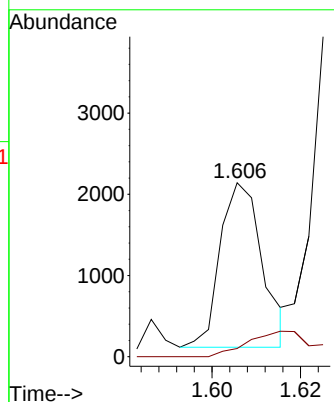
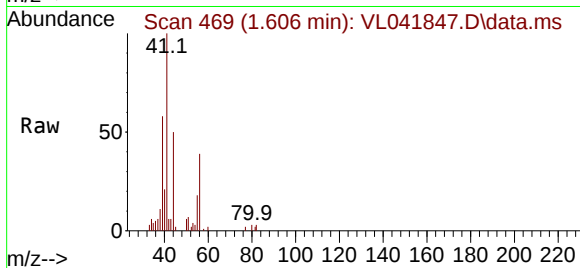




#16
1,3-Butadiene
Concen: 0.221 ppbv
RT: 1.606 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

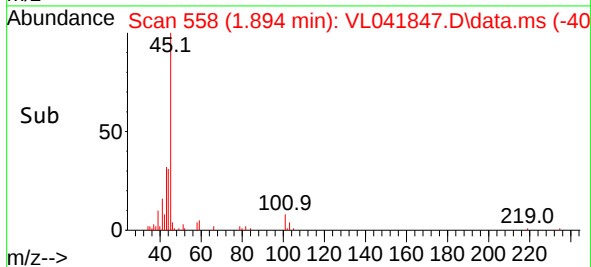
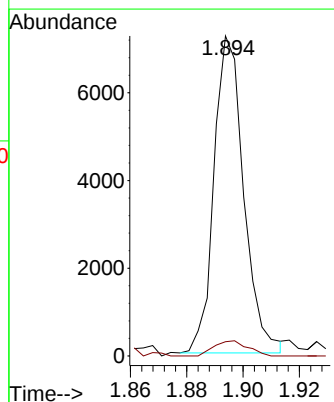
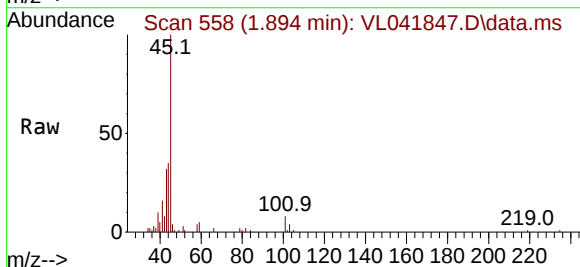
Instrument :
MSVOA_L
ClientSampleId :

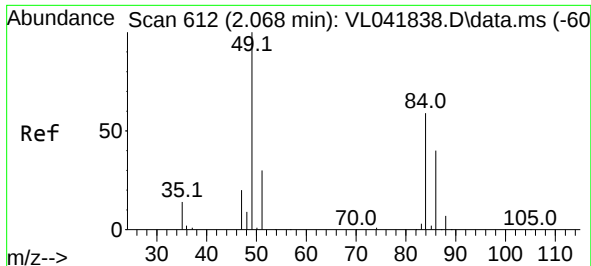
Tgt Ion: 39 Resp: 1339
Ion Ratio Lower Upper
39 100
54 27.2 56.2 84.4#



#19
Isopropyl Alcohol
Concen: 0.731 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

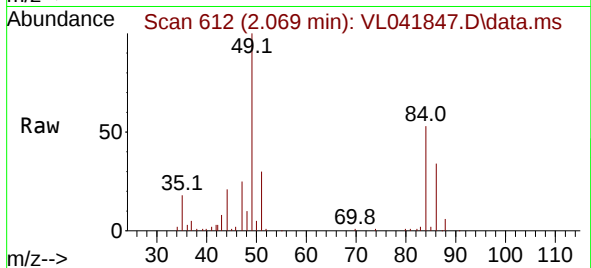
Tgt Ion: 45 Resp: 5304
Ion Ratio Lower Upper
45 100
58 145.1 2.1 3.1#





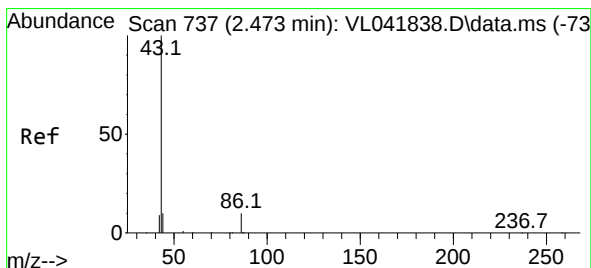
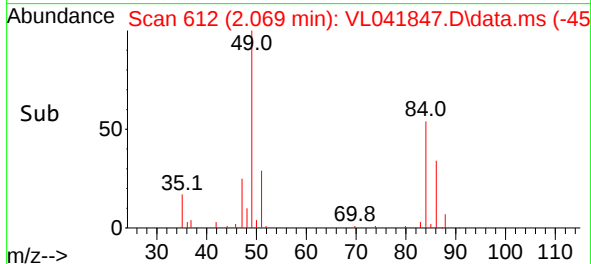
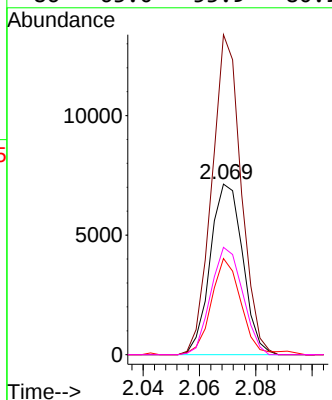
#20
Methylene Chloride
Concen: 1.293 ppbv
RT: 2.069 min Scan# 612
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 5712

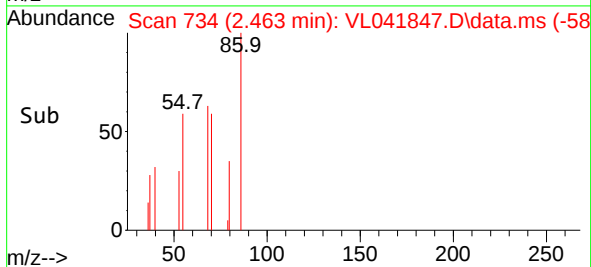
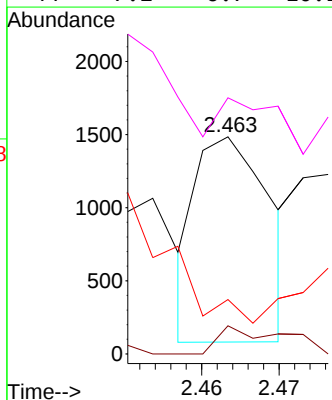
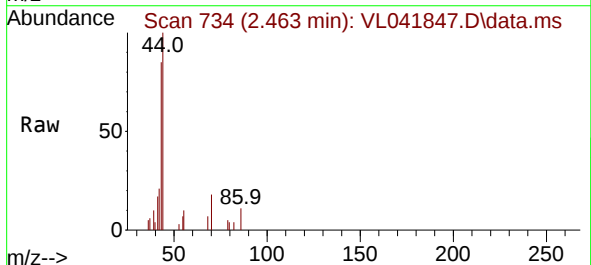
Ion	Ratio	Lower	Upper
84	100		
49	187.6	137.8	206.8
51	56.4	43.9	65.9
86	63.0	53.9	80.9

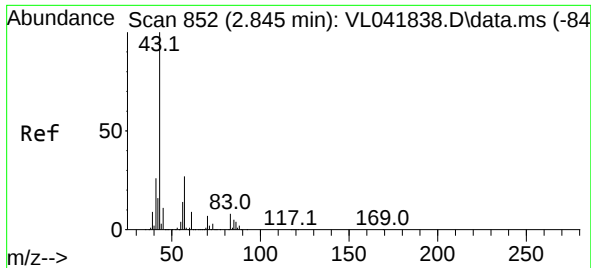


#23
Vinyl Acetate
Concen: 0.193 ppbv
RT: 2.463 min Scan# 734
Delta R.T. -0.010 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 43 Resp: 929

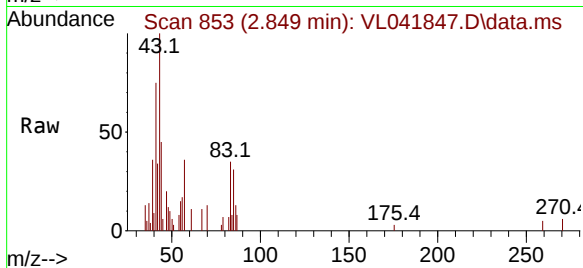
Ion	Ratio	Lower	Upper
43	100		
86	24.3	6.4	9.6#
42	0.0	9.5	14.3#
44	7.2	6.7	10.1



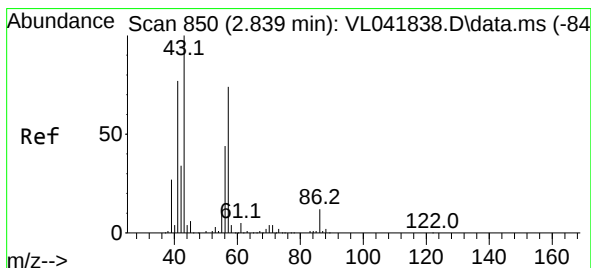
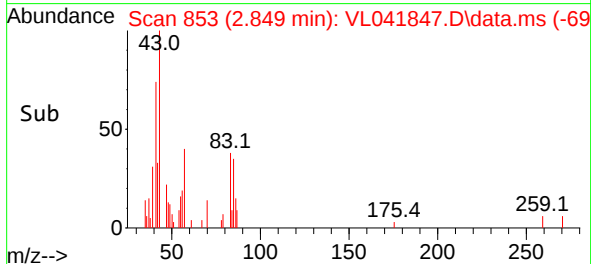
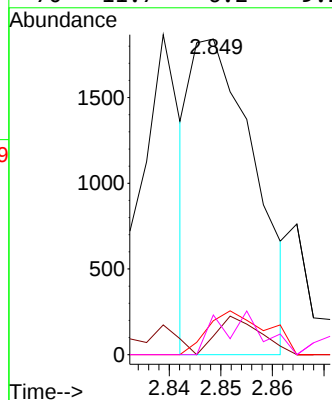


#25
Ethyl Acetate
Concen: 0.061 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :

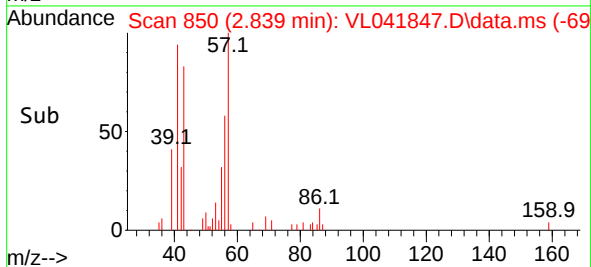
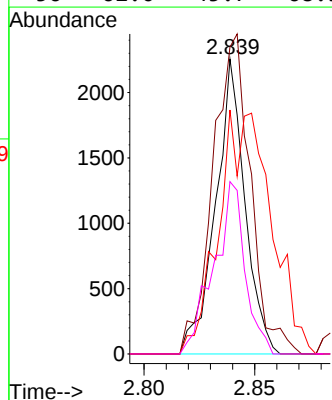
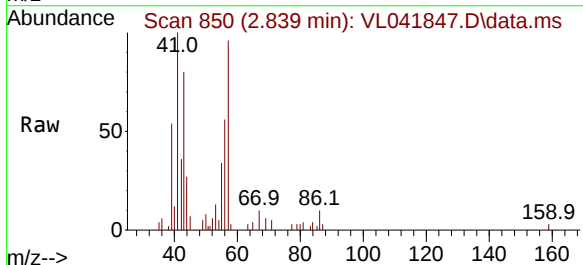


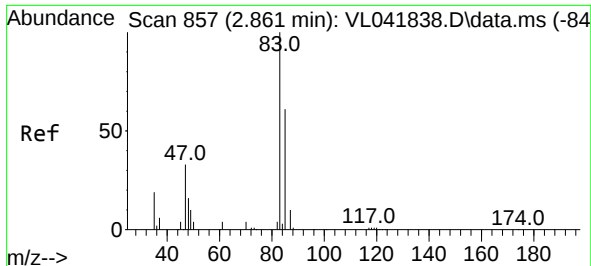
Tgt Ion:	43	Resp:	1575
Ion	Ratio	Lower	Upper
43	100		
45	15.0	7.8	11.8#
61	12.8	7.0	10.6#
70	11.7	6.2	9.2#



#26
Hexane
Concen: 0.231 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion:	57	Resp:	2079
Ion	Ratio	Lower	Upper
57	100		
41	142.7	84.0	126.0#
43	147.7	218.4	327.6#
56	62.0	45.7	68.5





#29

Chloroform

Concen: 0.256 ppbv

RT: 2.858 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL041847.D

Acq: 07 Jan 2025 16:59

Instrument :

MSVOA_L

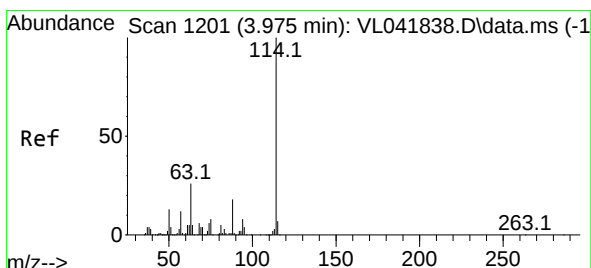
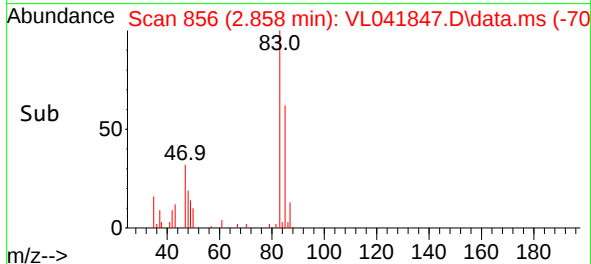
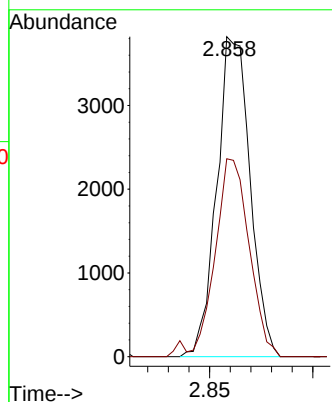
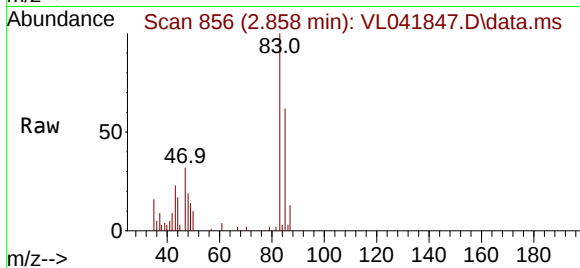
ClientSampleId :

Tgt Ion: 83 Resp: 4282

Ion Ratio Lower Upper

83 100

85 61.9 49.6 74.4



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.978 min Scan# 1202

Delta R.T. 0.003 min

Lab File: VL041847.D

Acq: 07 Jan 2025 16:59

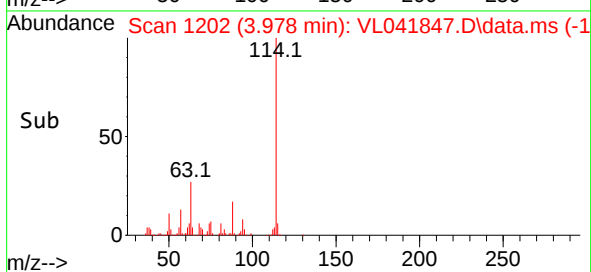
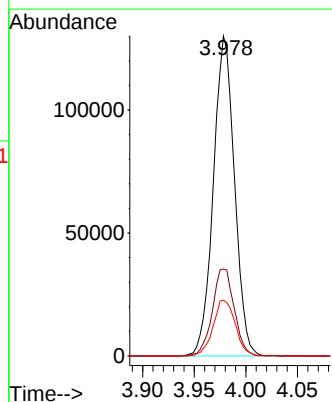
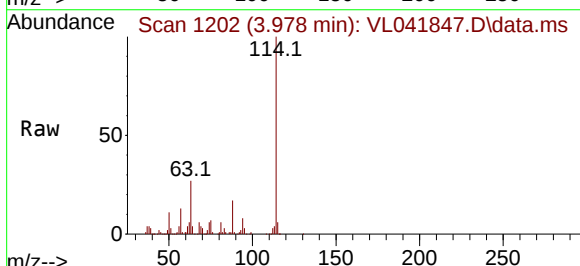
Tgt Ion: 114 Resp: 185037

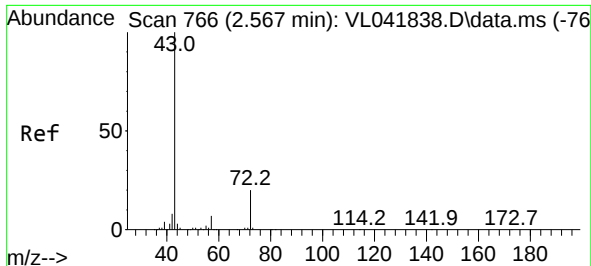
Ion Ratio Lower Upper

114 100

63 28.2 22.3 33.5

88 18.3 14.9 22.3

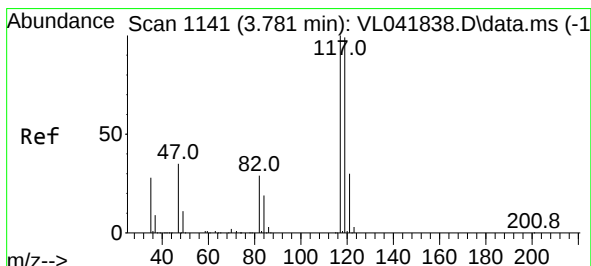
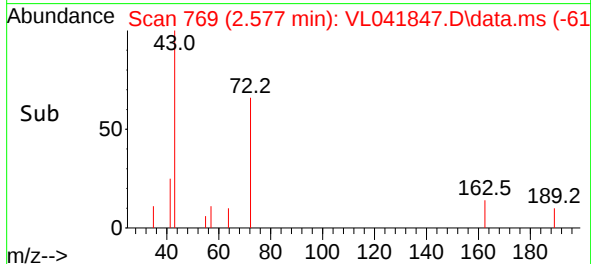
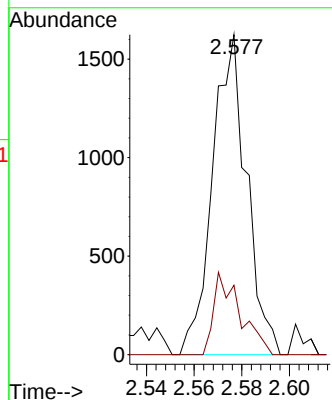
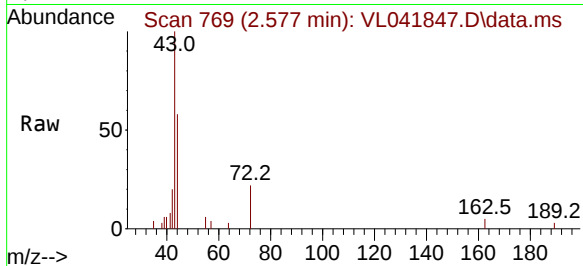




#34
2-Butanone
Concen: 0.110 ppbv
RT: 2.577 min Scan# 769
Delta R.T. 0.010 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

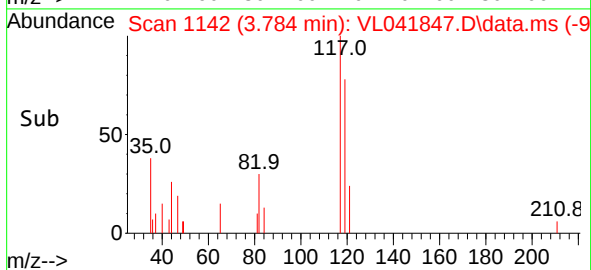
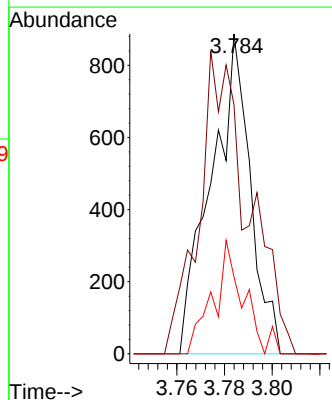
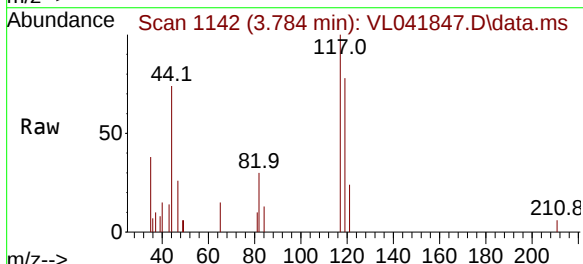
Instrument :
MSVOA_L
ClientSampleId :

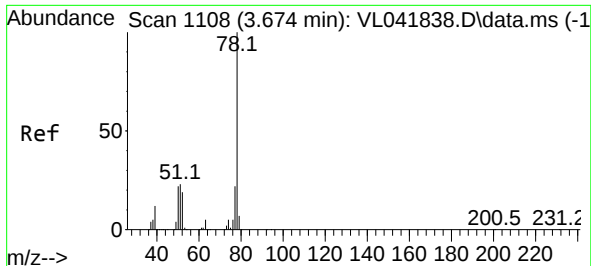
Tgt Ion: 43 Resp: 1609
Ion Ratio Lower Upper
43 100
72 20.1 16.6 25.0



#35
Carbon Tetrachloride
Concen: 0.072 ppbv
RT: 3.784 min Scan# 1142
Delta R.T. 0.003 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 117 Resp: 1009
Ion Ratio Lower Upper
117 100
119 65.6 79.1 118.7#
121 24.1 24.2 36.2#

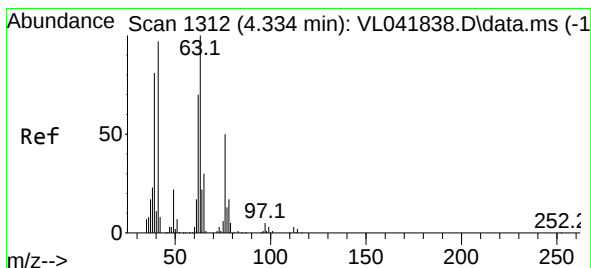
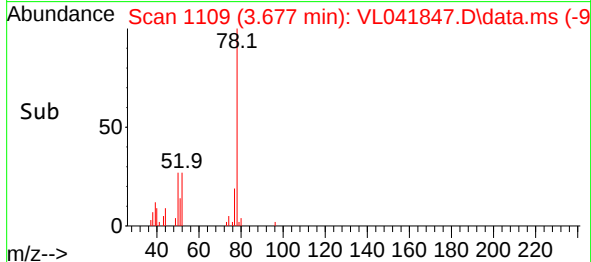
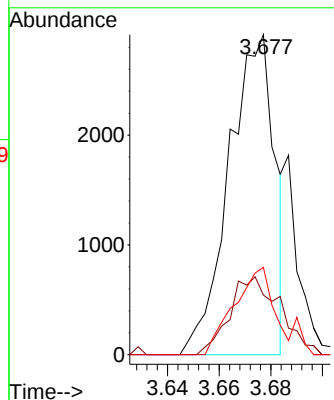
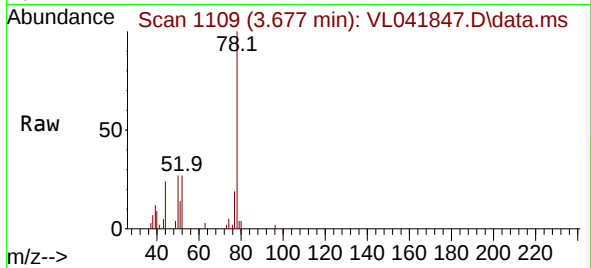




#36
Benzene
Concen: 0.203 ppbv
RT: 3.677 min Scan# 1108
Delta R.T. 0.003 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

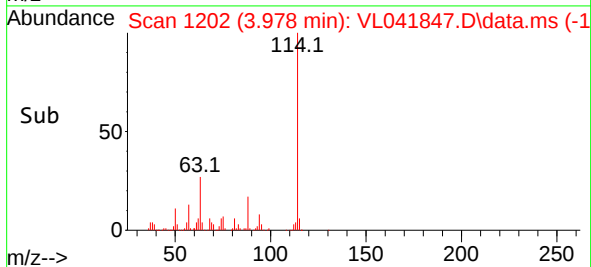
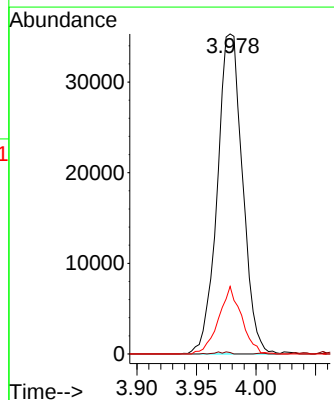
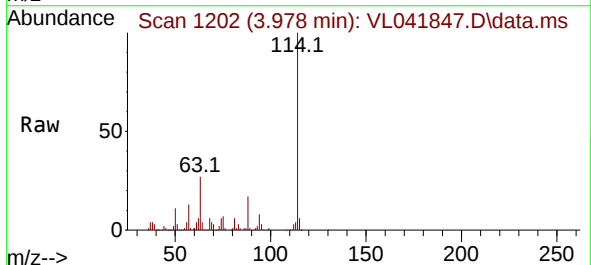
Instrument :
MSVOA_L
ClientSampleId :

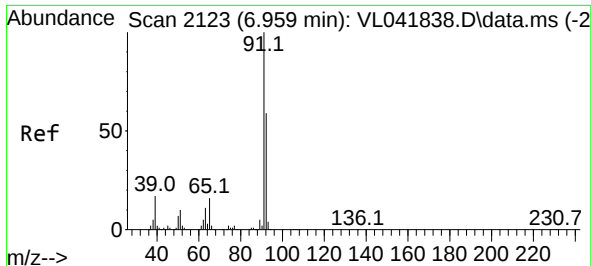
Tgt Ion: 78 Resp: 3585
Ion Ratio Lower Upper
78 100
77 18.7 17.4 26.0
50 27.3 17.3 25.9#



#39
1,2-Dichloropropane
Concen: 7.605 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. -0.356 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 63 Resp: 52004
Ion Ratio Lower Upper
63 100
41 0.4 77.7 116.5#
62 21.1 56.2 84.2#

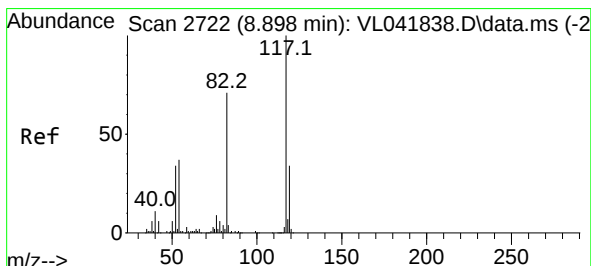
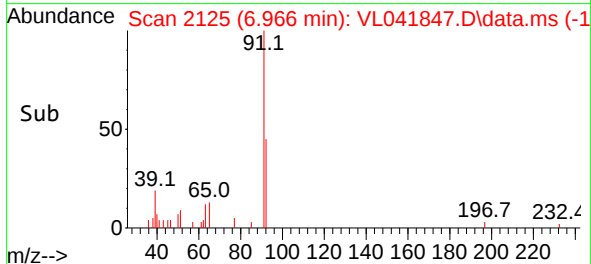
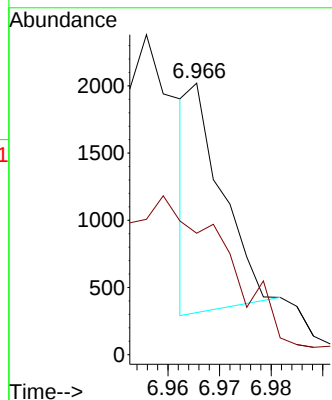
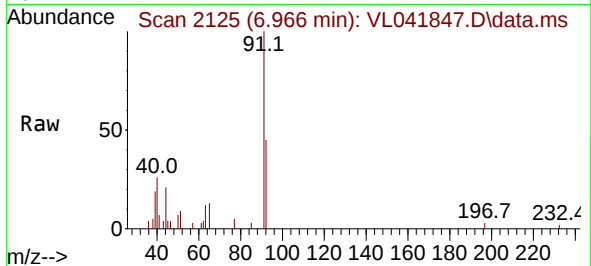




#53
Toluene
Concen: 0.048 ppbv
RT: 6.966 min Scan# 2123
Delta R.T. 0.007 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

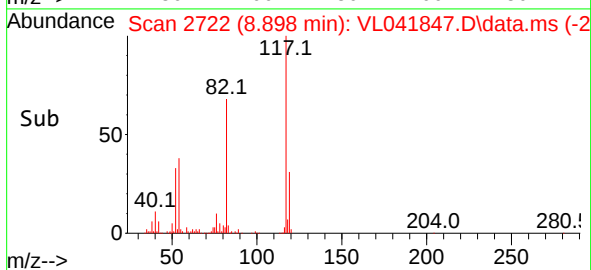
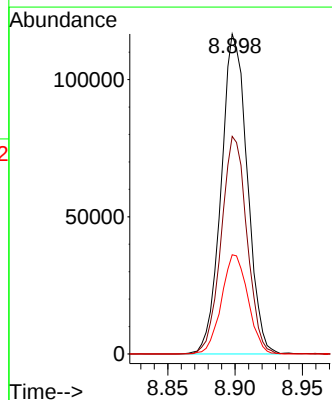
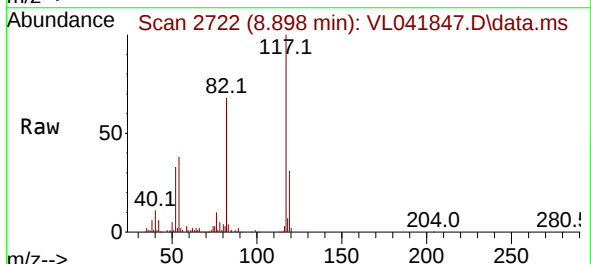
Instrument :
MSVOA_L
ClientSampleId :

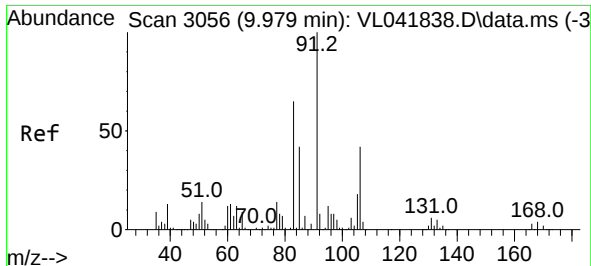
Tgt Ion: 91 Resp: 753
Ion Ratio Lower Upper
91 100
92 0.0 47.8 71.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 117 Resp: 157066
Ion Ratio Lower Upper
117 100
82 67.1 59.1 88.7
119 31.5 27.3 40.9

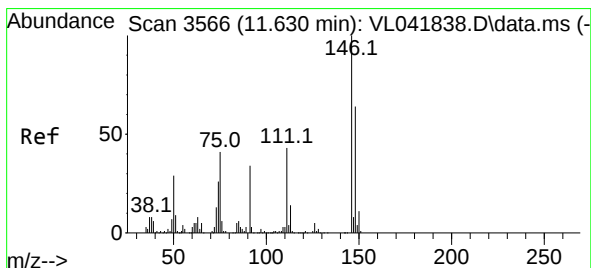
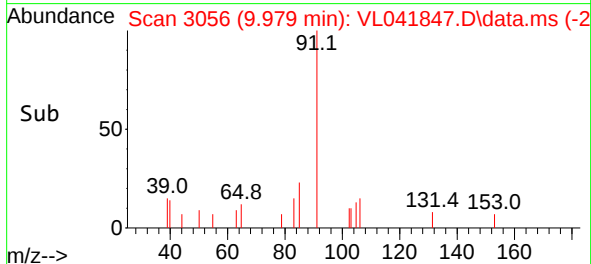
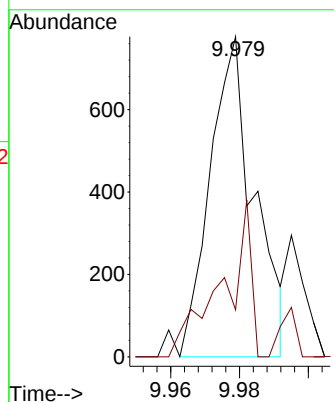
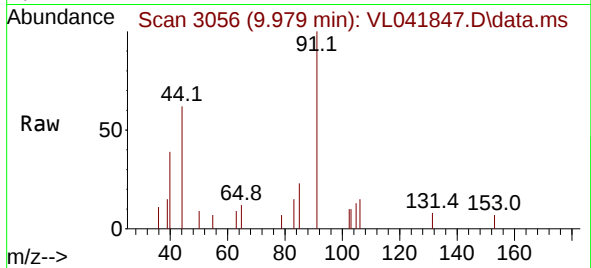




#60
o-Xylene
Concen: 0.038 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

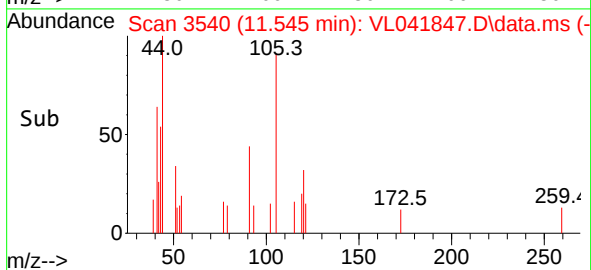
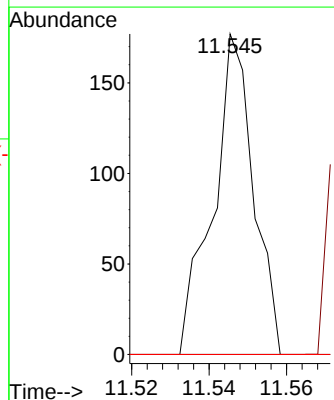
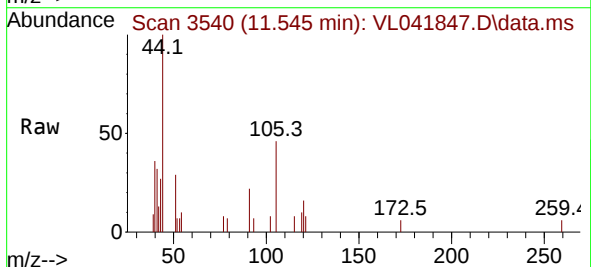
Instrument :
MSVOA_L
ClientSampleId :

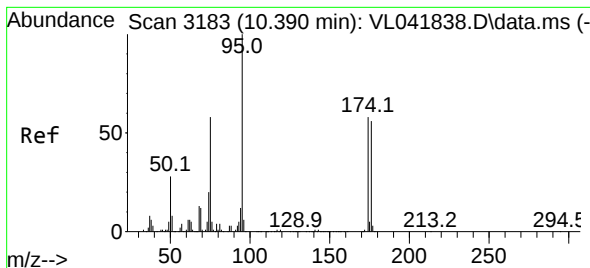
Tgt Ion: 91 Resp: 691
Ion Ratio Lower Upper
91 100
106 36.8 21.9 65.5



#66
Benzyl Chloride
Concen: 0.059 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. -0.084 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 91 Resp: 129
Ion Ratio Lower Upper
91 100
126 28.7 12.1 18.1#
128 0.0 4.3 6.5#

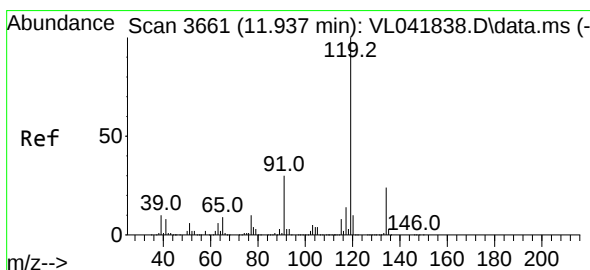
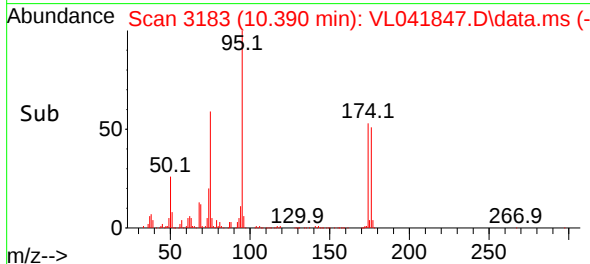
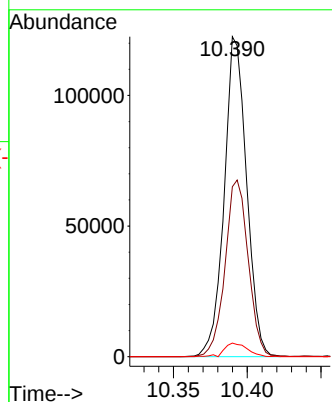
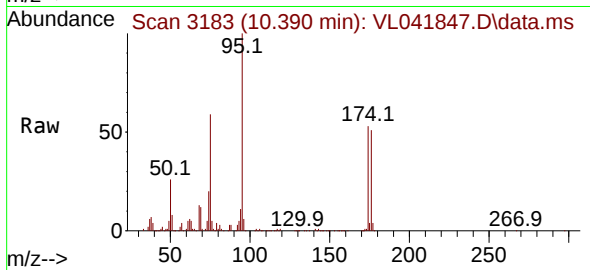




#68
1-Bromo-4-Fluorobenzene
Concen: 9.616 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 95 Resp: 129360
Ion Ratio Lower Upper
95 100
174 57.4 47.6 71.4
175 4.4 3.8 5.6



#69
p-Isopropyltoluene
Concen: 0.045 ppbv
RT: 11.937 min Scan# 3661
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 119 Resp: 1331
Ion Ratio Lower Upper
119 100
134 23.3 19.4 29.2
91 26.8 24.0 36.0

