

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102323\
 Data File : VL040787.D
 Acq On : 23 Oct 2023 20:32
 Operator : SY/MD
 Sample : 04699-15 0.03 MDL
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 24 16:12:46 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Oct 24 16:11:15 2023
 Response via : Initial Calibration

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

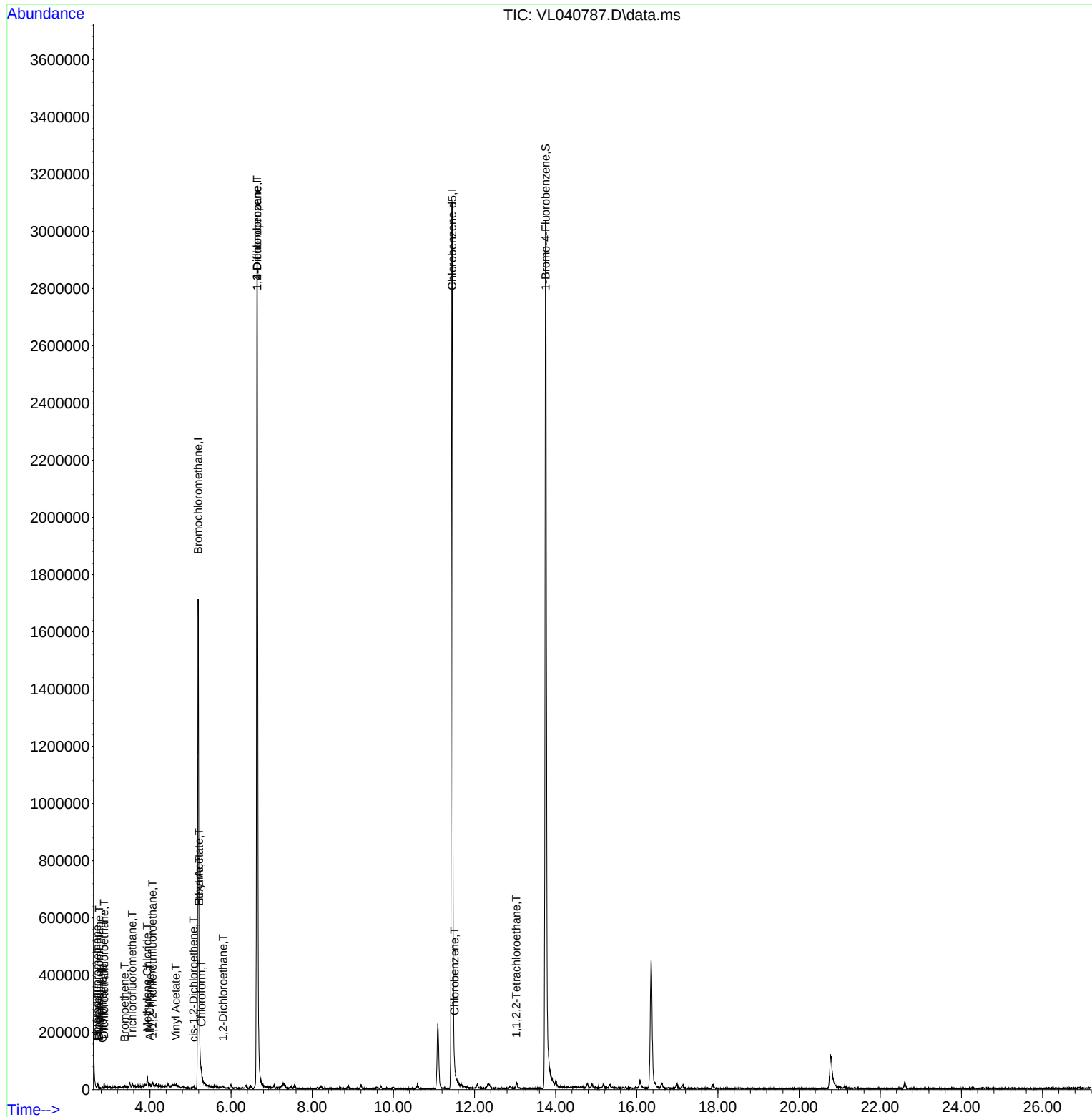
Internal Standards						
1) Bromochloromethane	5.189	49	857487	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.642	114	2402784	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.446	117	2181125	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	1626360	10.134	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.748	85	6966	0.046	ppbv #	81
3) Chlorodifluoromethane	2.694	51	6622	0.053	ppbv	97
4) Chloromethane	2.832	50	1636	0.033	ppbv	98
8) Dichlorotetrafluoroethane	2.874	85	5719	0.050	ppbv	93
9) Propene	2.713	41	4724	0.101	ppbv	90
11) Trichlorofluoromethane	3.565	101	5824	0.050	ppbv #	80
12) 1,1,2-Trichlorotrifluo...	4.066	101	2853	0.034	ppbv #	68
14) Bromoethene	3.375	108	1343	0.038	ppbv #	61
20) Methylene Chloride	3.938	84	8375	0.227	ppbv #	89
21) Allyl Chloride	3.999	41	2069	0.035	ppbv #	1
23) Vinyl Acetate	4.639	43	5178	0.046	ppbv #	75
25) Ethyl Acetate	5.211	43	8054	0.041	ppbv #	81
26) Hexane	5.211	57	3931	0.044	ppbv #	1
29) Chloroform	5.269	83	6368	0.050	ppbv #	62
31) cis-1,2-Dichloroethene	5.076	61	2865	0.035	ppbv	89
37) 1,2-Dichloroethane	5.803	62	3434	0.036	ppbv	98
39) 1,2-Dichloropropane	6.642	63	568454	7.873	ppbv #	27
57) Chlorobenzene	11.507	112	5313	0.034	ppbv #	53
63) 1,1,2,2-Tetrachloroethane	13.031	83	5792	0.036	ppbv	85

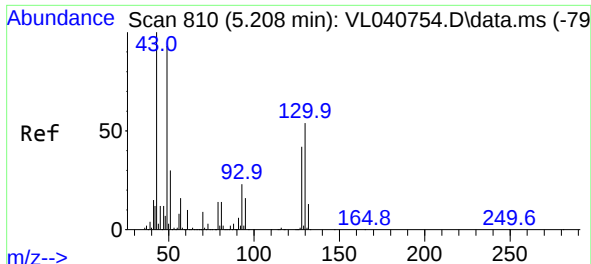
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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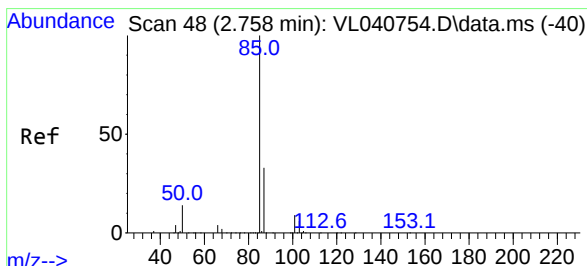
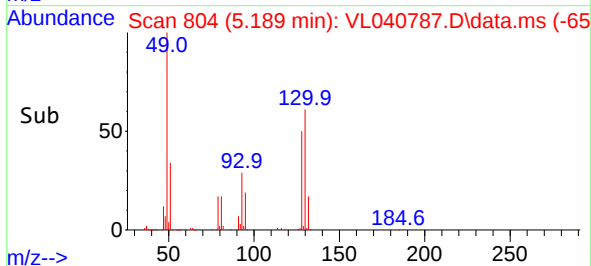
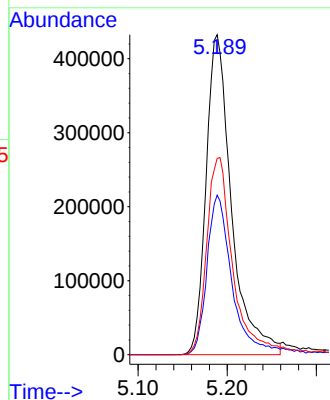
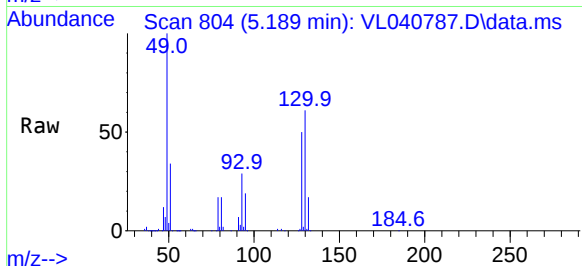




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. -0.019 min
Lab File: VL040787.D
Acq: 23 Oct 2023 20:32

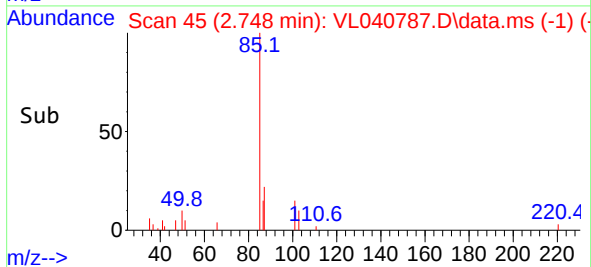
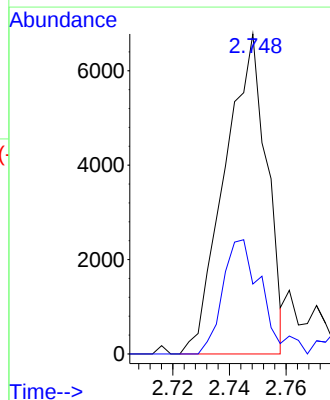
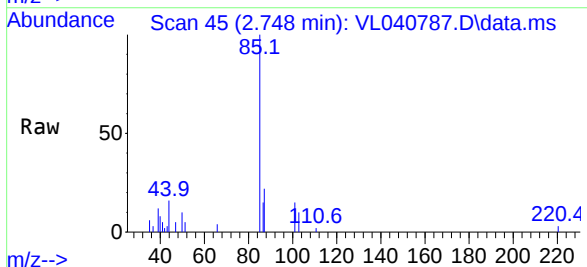
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 49 Resp: 857487
Ion Ratio Lower Upper
49 100
128 51.7 23.9 71.7
130 65.0 30.7 92.1

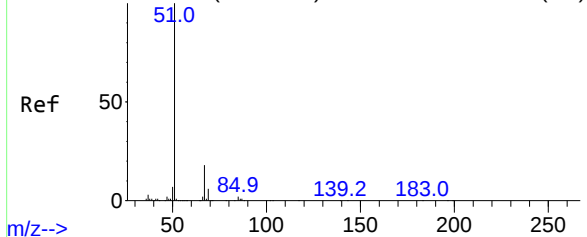


#2
Dichlorodifluoromethane
Concen: 0.046 ppbv
RT: 2.748 min Scan# 45
Delta R.T. -0.010 min
Lab File: VL040787.D
Acq: 23 Oct 2023 20:32

Tgt Ion: 85 Resp: 6966
Ion Ratio Lower Upper
85 100
87 21.8 26.0 39.0#



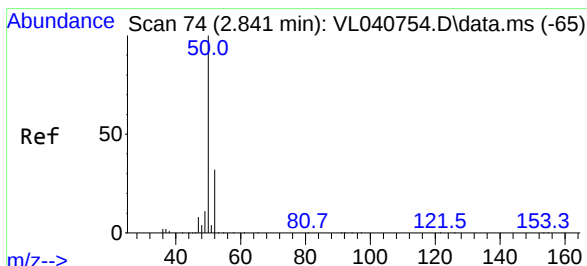
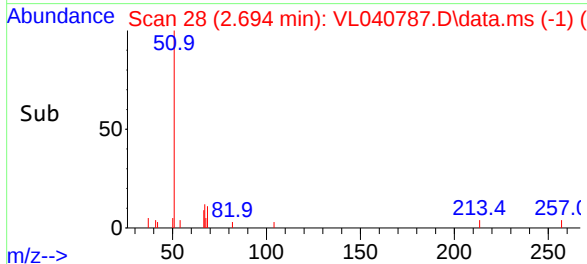
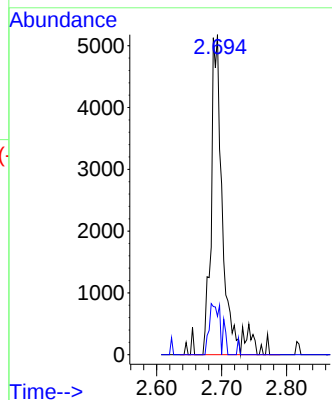
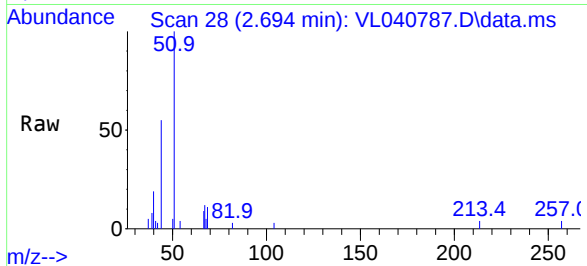
Abundance Scan 31 (2.703 min): VL040754.D\data.ms (-19)



#3
Chlorodifluoromethane
Concen: 0.053 ppbv
RT: 2.694 min Scan# 21
Delta R.T. -0.010 min
Lab File: VL040787.D
Acq: 23 Oct 2023 20:32

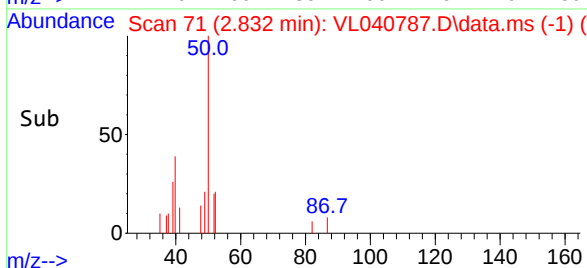
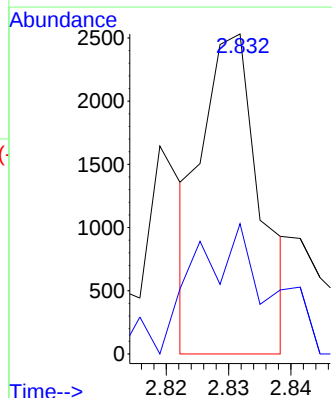
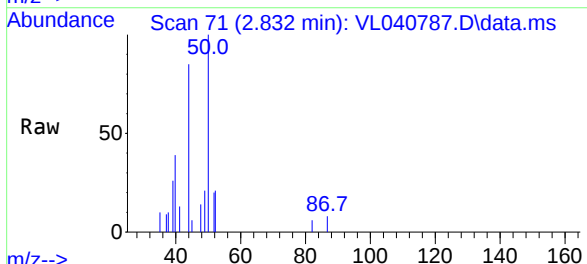
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 6622
Ion Ratio Lower Upper
51 100
67 15.8 13.8 20.6

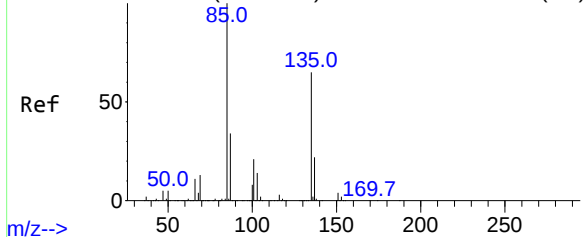


#4
Chloromethane
Concen: 0.033 ppbv
RT: 2.832 min Scan# 71
Delta R.T. -0.010 min
Lab File: VL040787.D
Acq: 23 Oct 2023 20:32

Tgt Ion: 50 Resp: 1636
Ion Ratio Lower Upper
50 100
52 32.7 25.3 37.9

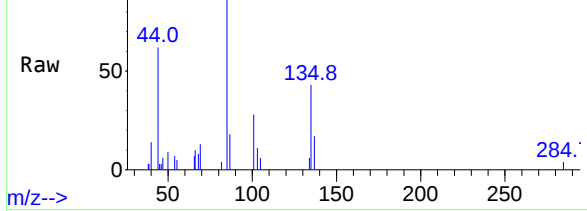


Abundance Scan 87 (2.883 min): VL040754.D\data.ms (-79)



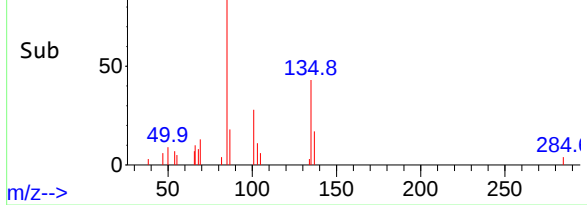
m/z-->

Abundance Scan 84 (2.874 min): VL040787.D\data.ms



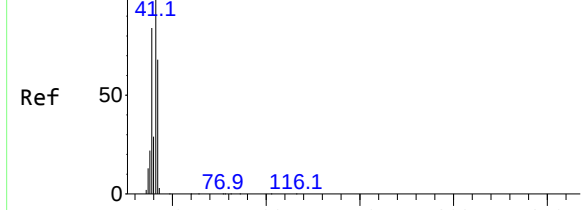
m/z-->

Abundance Scan 84 (2.874 min): VL040787.D\data.ms (-1) (-



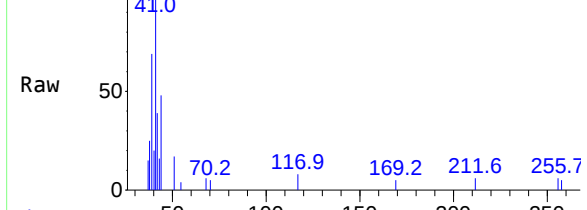
m/z-->

Abundance Scan 37 (2.722 min): VL040754.D\data.ms (-27)



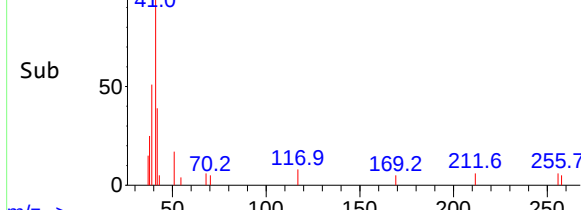
m/z-->

Abundance Scan 34 (2.713 min): VL040787.D\data.ms



m/z-->

Abundance Scan 34 (2.713 min): VL040787.D\data.ms (-1) (-



m/z-->

#8

Dichlorotetrafluoroethane

Concen: 0.050 ppbv

RT: 2.874 min Scan# 84

Delta R.T. -0.010 min

Lab File: VL040787.D

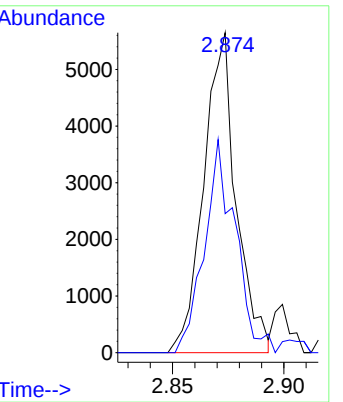
Acq: 23 Oct 2023 20:32

Tgt Ion: 85 Resp: 5719

Ion Ratio Lower Upper

85 100

135 63.4 55.4 83.2



#9

Propene

Concen: 0.101 ppbv

RT: 2.713 min Scan# 34

Delta R.T. -0.010 min

Lab File: VL040787.D

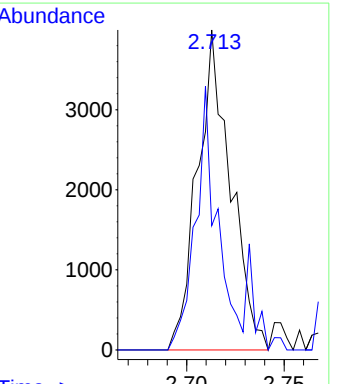
Acq: 23 Oct 2023 20:32

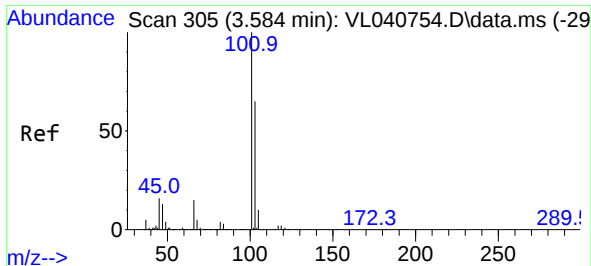
Tgt Ion: 41 Resp: 4724

Ion Ratio Lower Upper

41 100

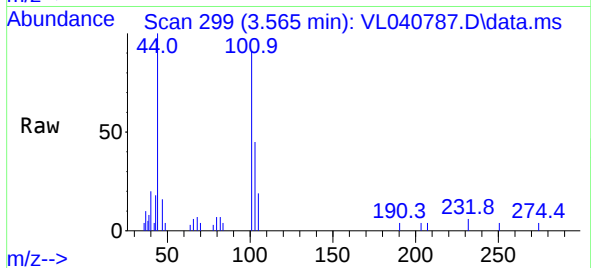
42 63.1 57.1 85.7



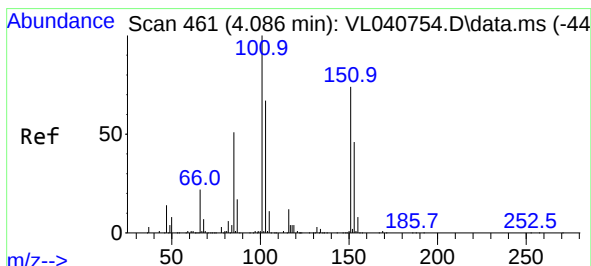
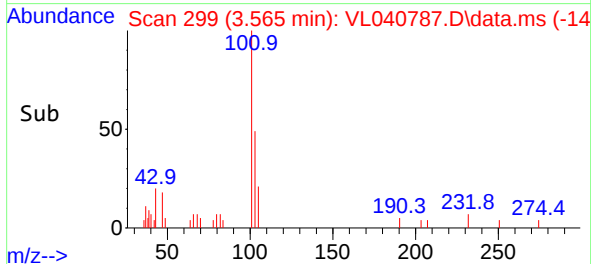
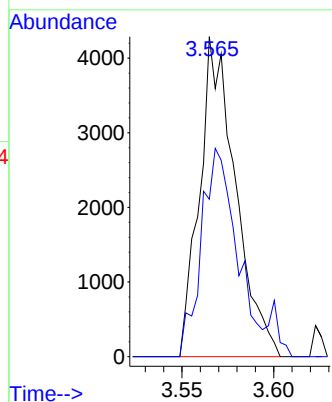


#11
Trichlorofluoromethane
Concen: 0.050 ppbv
RT: 3.565 min Scan# 24
Delta R.T. -0.019 min
Lab File: VL040787.D
Acq: 23 Oct 2023 20:32

Instrument :
MSVOA_L
ClientSampleId :

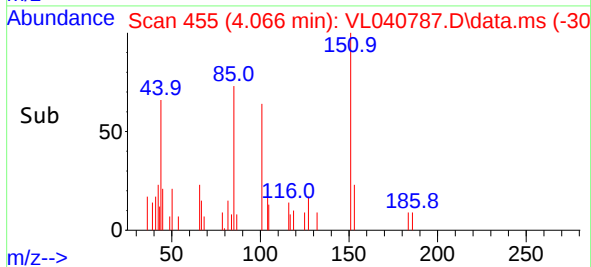
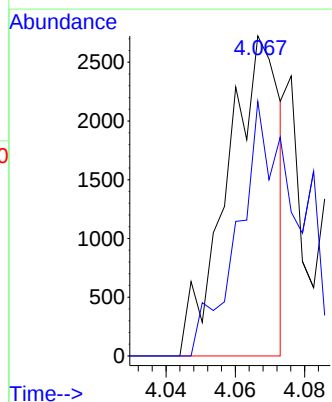
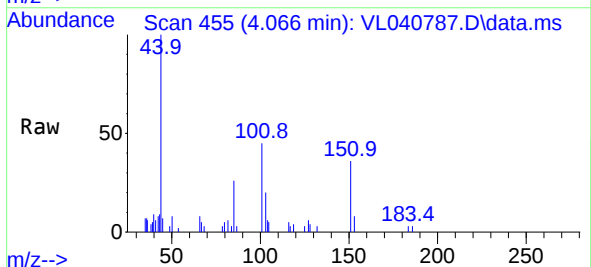


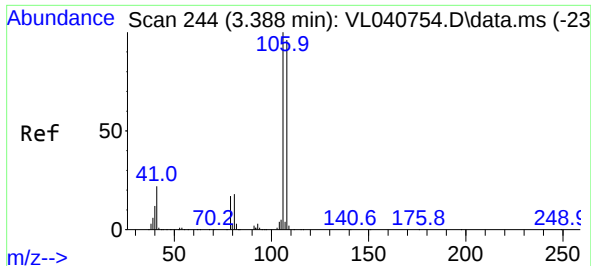
Tgt Ion:101 Resp: 5824
Ion Ratio Lower Upper
101 100
103 49.2 52.2 78.2#



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.034 ppbv
RT: 4.066 min Scan# 455
Delta R.T. -0.019 min
Lab File: VL040787.D
Acq: 23 Oct 2023 20:32

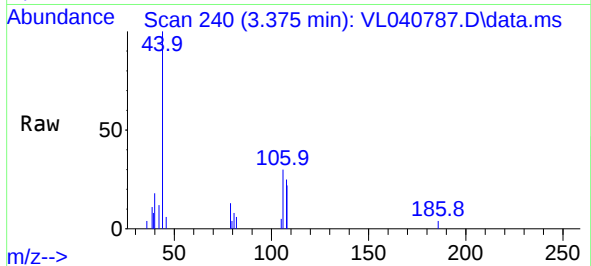
Tgt Ion:101 Resp: 2853
Ion Ratio Lower Upper
101 100
151 99.2 58.1 87.1#



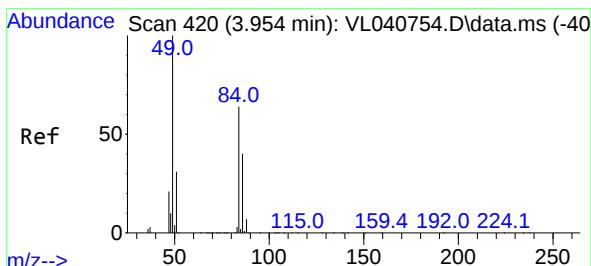
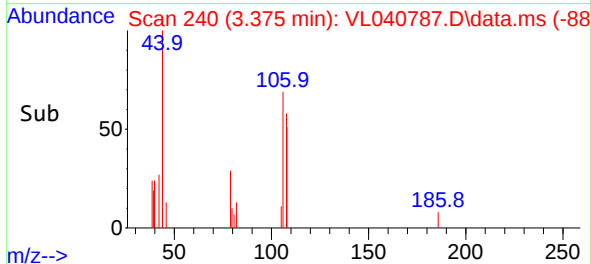
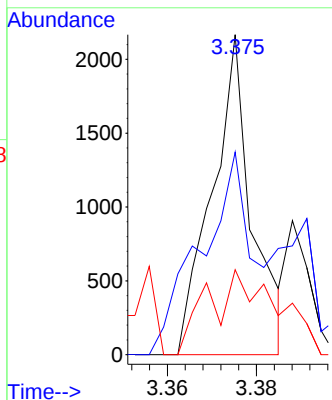


#14
Bromoethene
Concen: 0.038 ppbv
RT: 3.375 min Scan# 244
Delta R.T. -0.013 min
Lab File: VL040787.D
Acq: 23 Oct 2023 20:32

Instrument :
MSVOA_L
ClientSampleId :

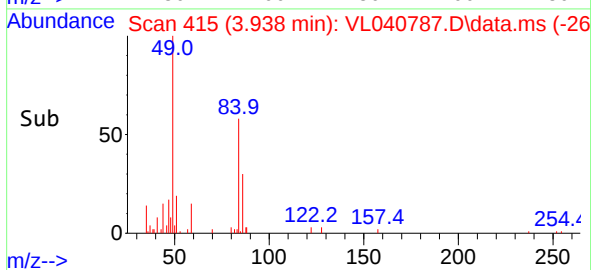
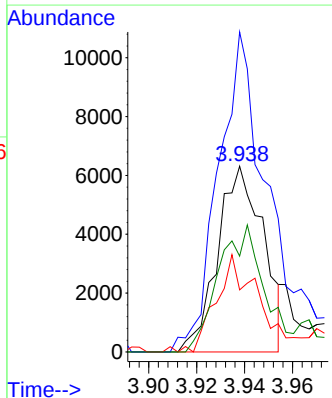
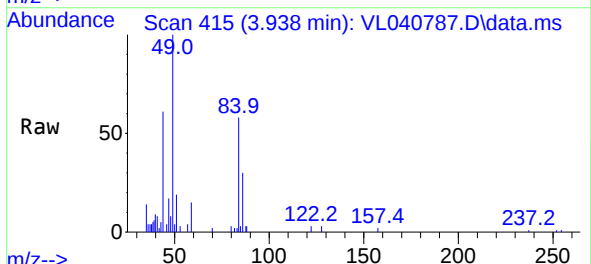


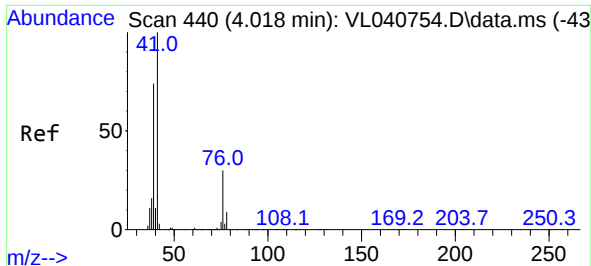
Tgt Ion:108 Resp: 1343
Ion Ratio Lower Upper
108 100
106 136.0 85.2 127.8#
79 62.2 15.7 23.5#



#20
Methylene Chloride
Concen: 0.227 ppbv
RT: 3.938 min Scan# 415
Delta R.T. -0.016 min
Lab File: VL040787.D
Acq: 23 Oct 2023 20:32

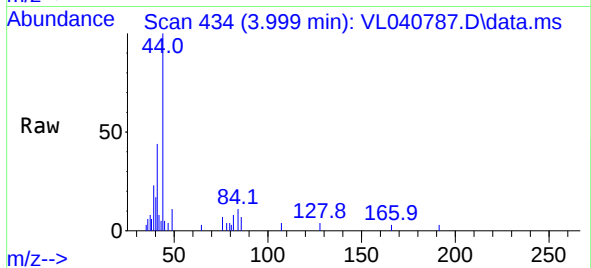
Tgt Ion: 84 Resp: 8375
Ion Ratio Lower Upper
84 100
49 164.3 125.6 188.4
51 33.5 38.9 58.3#
86 51.6 50.6 76.0



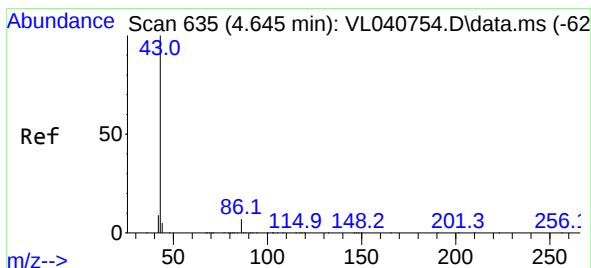
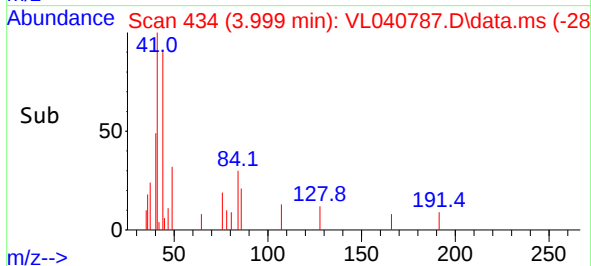
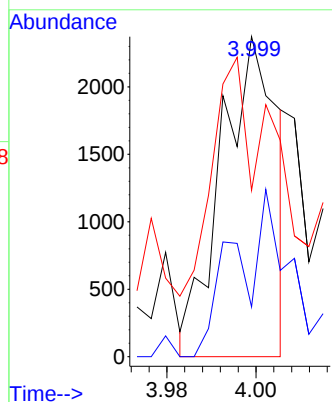


#21
Allyl Chloride
Concen: 0.035 ppbv
RT: 3.999 min Scan# 41
Delta R.T. -0.019 min
Lab File: VL040787.D
Acq: 23 Oct 2023 20:32

Instrument :
MSVOA_L
ClientSampleId :

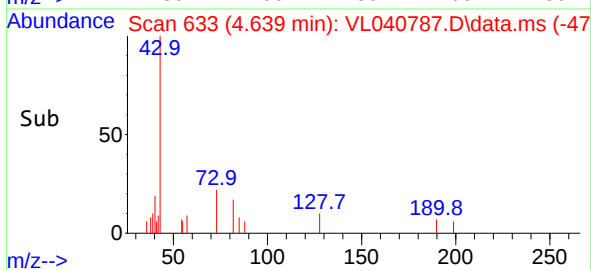
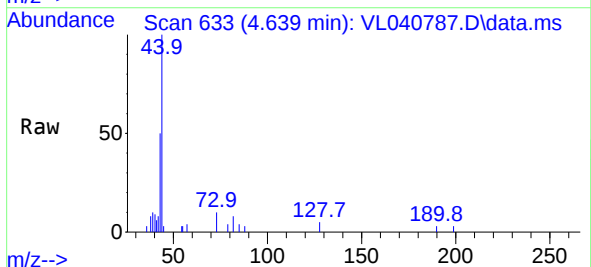
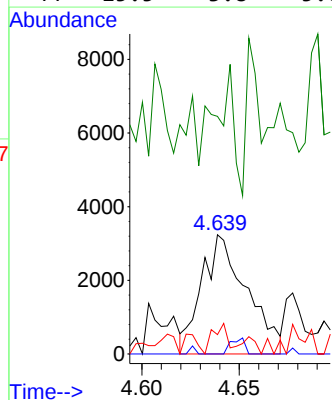


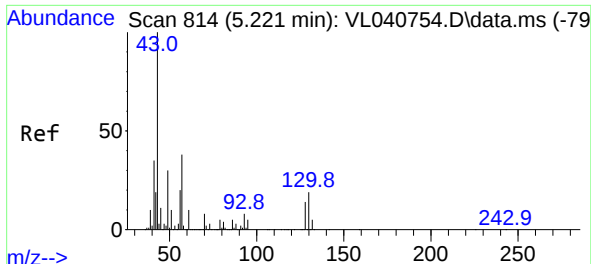
Tgt Ion: 41 Resp: 2069
Ion Ratio Lower Upper
41 100
76 63.7 24.1 36.1#
39 219.1 63.8 95.6#



#23
Vinyl Acetate
Concen: 0.046 ppbv
RT: 4.639 min Scan# 633
Delta R.T. -0.006 min
Lab File: VL040787.D
Acq: 23 Oct 2023 20:32

Tgt Ion: 43 Resp: 5178
Ion Ratio Lower Upper
43 100
86 0.0 4.9 7.3#
42 19.0 7.8 11.6#
44 15.5 3.8 5.6#

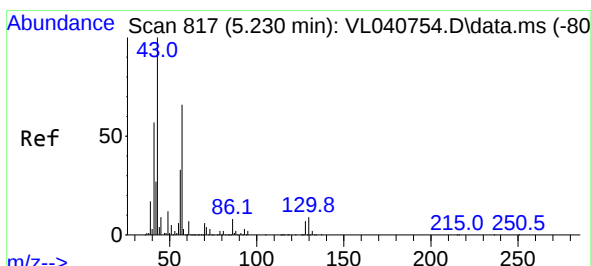
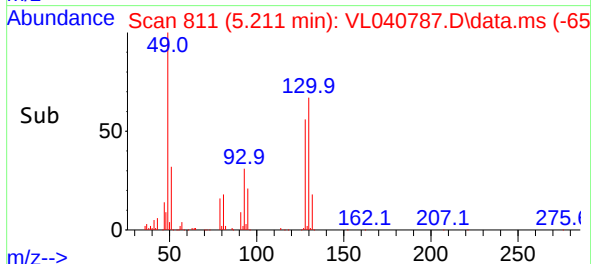
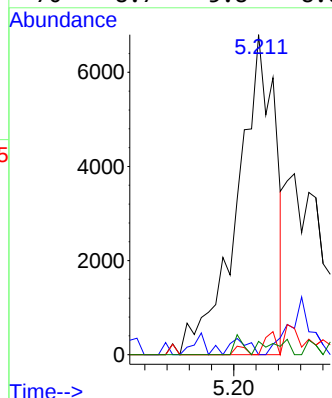
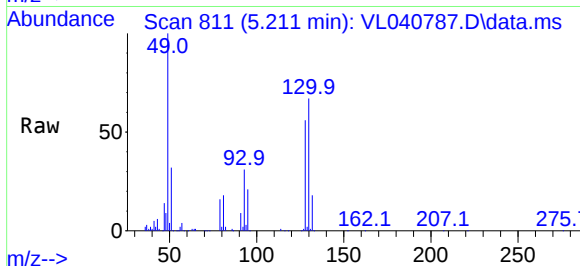




#25
Ethyl Acetate
Concen: 0.041 ppbv
RT: 5.211 min Scan# 814
Delta R.T. -0.010 min
Lab File: VL040787.D
Acq: 23 Oct 2023 20:32

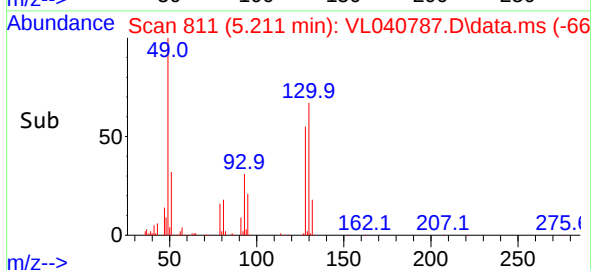
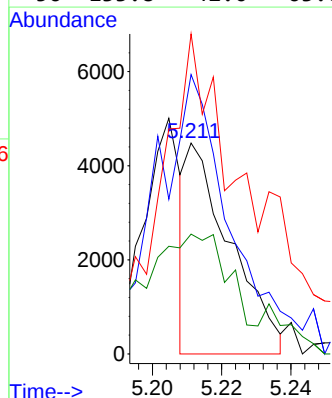
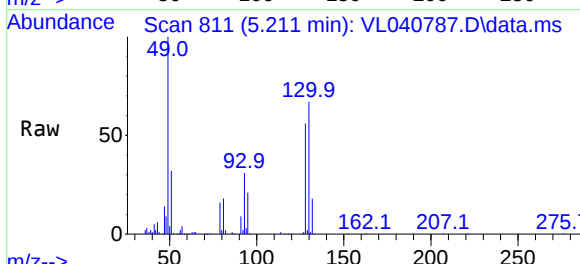
Instrument :
MSVOA_L
ClientSampleId :

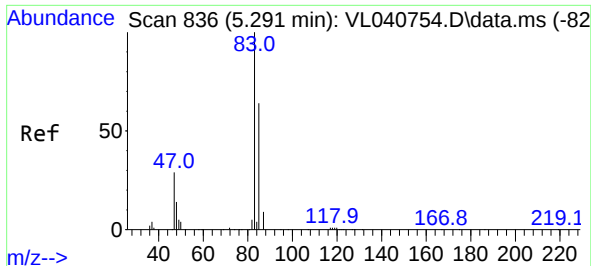
Tgt Ion:	43	Resp:	8054
Ion	Ratio	Lower	Upper
43	100		
45	2.4	8.2	12.4#
61	0.0	8.2	12.2#
70	8.7	5.8	8.6#



#26
Hexane
Concen: 0.044 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.019 min
Lab File: VL040787.D
Acq: 23 Oct 2023 20:32

Tgt Ion:	57	Resp:	3931
Ion	Ratio	Lower	Upper
57	100		
41	239.2	71.4	107.2#
43	355.6	182.3	273.5#
56	133.8	42.0	63.0#





#29

Chloroform

Concen: 0.050 ppbv

RT: 5.269 min Scan# 81

Delta R.T. -0.022 min

Lab File: VL040787.D

Acq: 23 Oct 2023 20:32

Instrument :

MSVOA_L

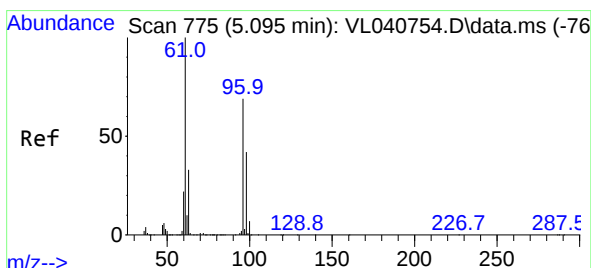
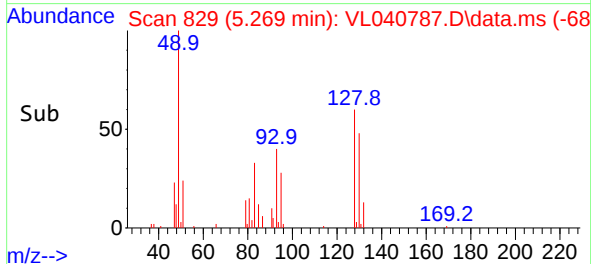
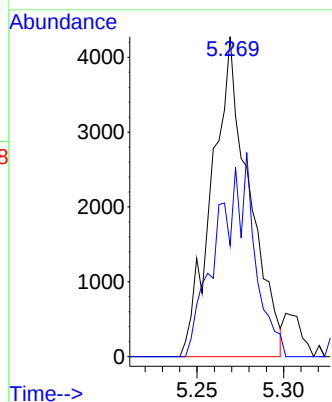
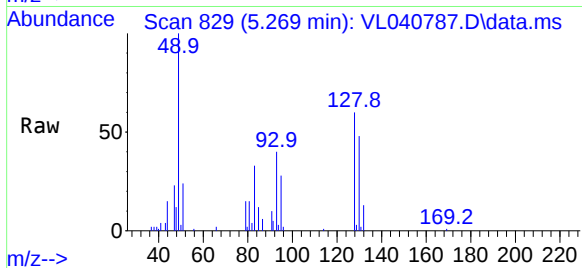
ClientSampleId :

Tgt Ion: 83 Resp: 6368

Ion Ratio Lower Upper

83 100

85 34.7 51.3 76.9#



#31

cis-1,2-Dichloroethene

Concen: 0.035 ppbv

RT: 5.076 min Scan# 769

Delta R.T. -0.019 min

Lab File: VL040787.D

Acq: 23 Oct 2023 20:32

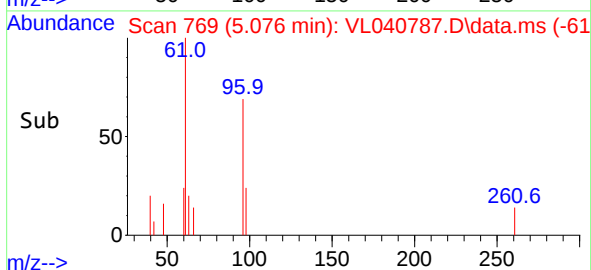
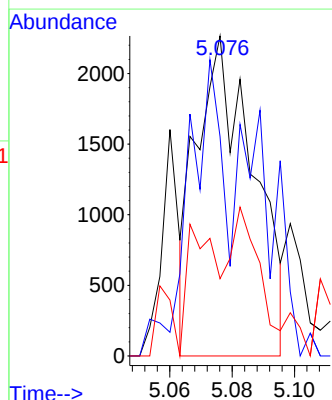
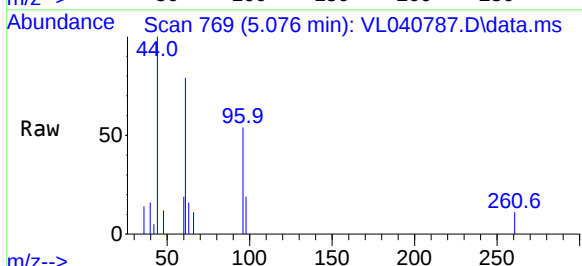
Tgt Ion: 61 Resp: 2865

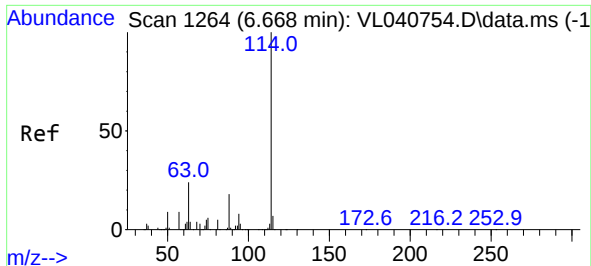
Ion Ratio Lower Upper

61 100

96 60.4 55.1 82.7

98 34.0 33.5 50.3





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 114

Delta R.T. -0.026 min

Lab File: VL040787.D

Acq: 23 Oct 2023 20:32

Instrument :

MSVOA_L

ClientSampleId :

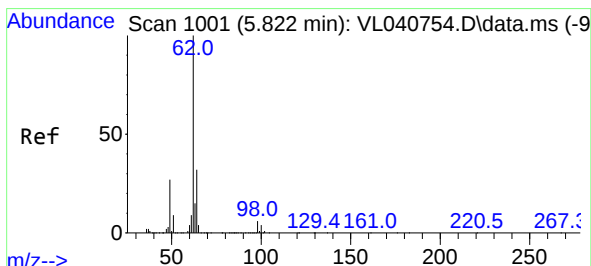
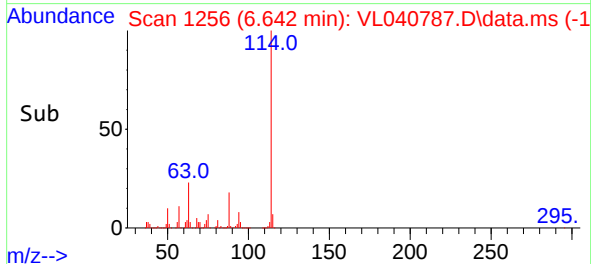
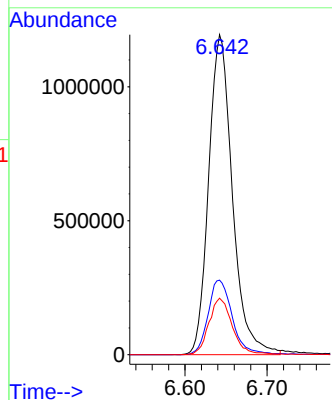
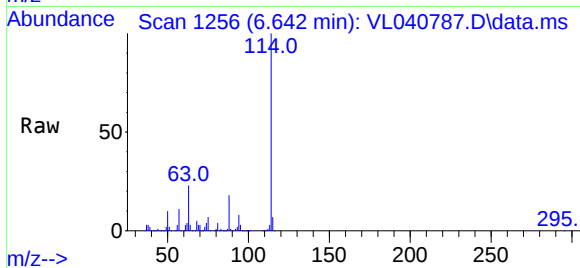
Tgt Ion:114 Resp: 2402784

Ion Ratio Lower Upper

114 100

63 24.1 19.8 29.6

88 17.6 14.2 21.2



#37

1,2-Dichloroethane

Concen: 0.036 ppbv

RT: 5.803 min Scan# 995

Delta R.T. -0.019 min

Lab File: VL040787.D

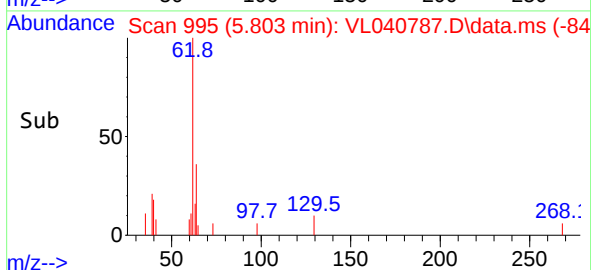
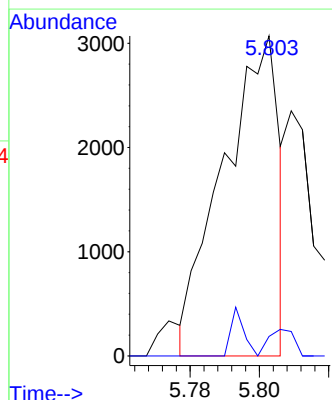
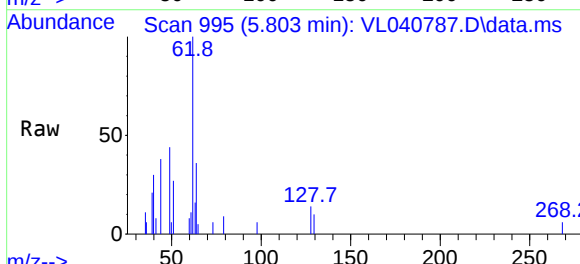
Acq: 23 Oct 2023 20:32

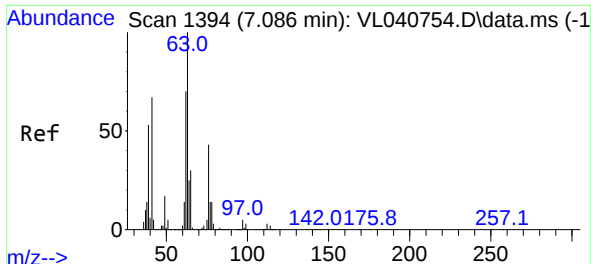
Tgt Ion: 62 Resp: 3434

Ion Ratio Lower Upper

62 100

98 7.3 5.4 8.0





#39

1,2-Dichloropropane

Concen: 7.873 ppbv

RT: 6.642 min Scan# 11

Delta R.T. -0.444 min

Lab File: VL040787.D

Acq: 23 Oct 2023 20:32

Instrument :

MSVOA_L

ClientSampleId :

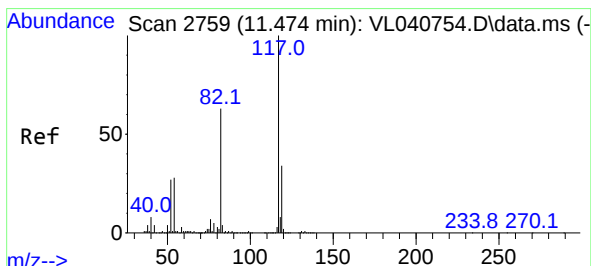
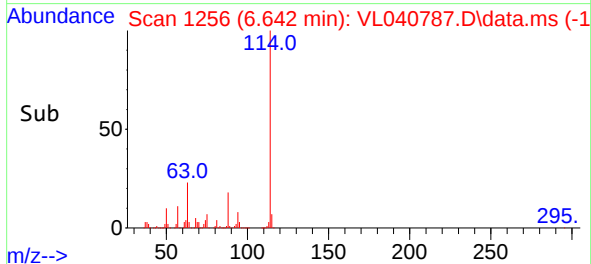
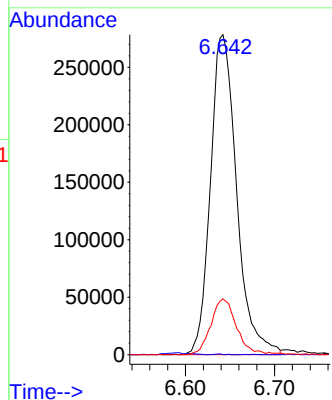
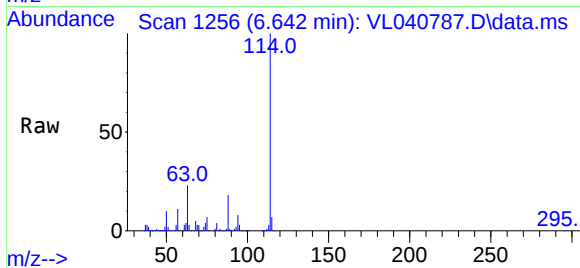
Tgt Ion: 63 Resp: 568454

Ion Ratio Lower Upper

63 100

41 0.1 53.7 80.5#

62 17.5 55.7 83.5#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.446 min Scan# 2750

Delta R.T. -0.029 min

Lab File: VL040787.D

Acq: 23 Oct 2023 20:32

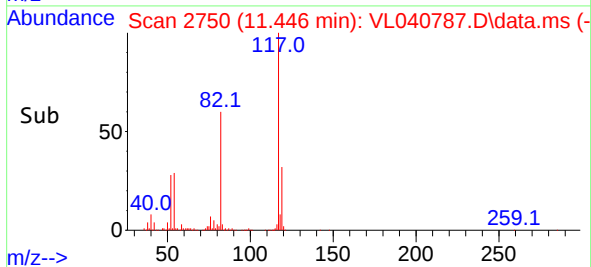
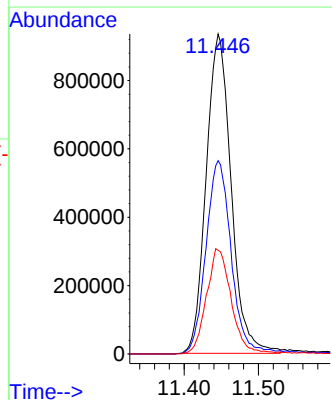
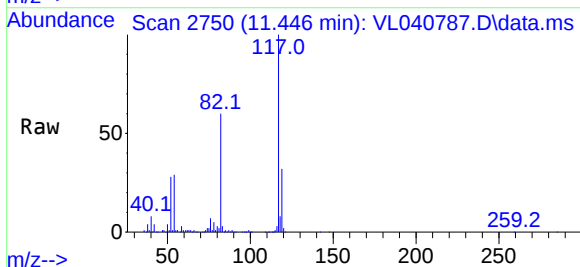
Tgt Ion: 117 Resp: 2181125

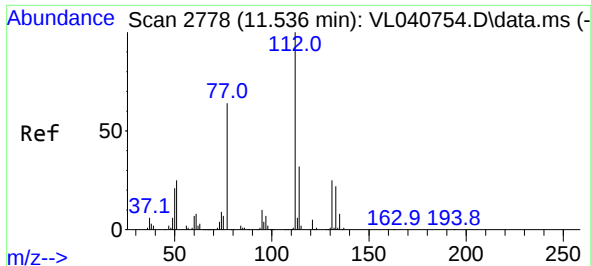
Ion Ratio Lower Upper

117 100

82 62.7 46.6 70.0

119 33.2 26.0 39.0

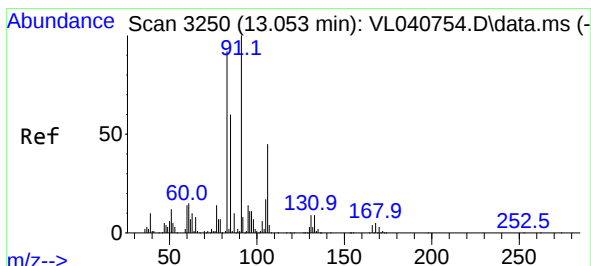
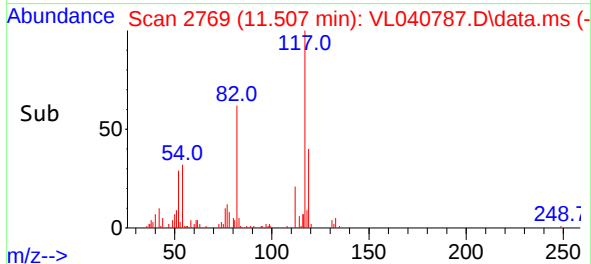
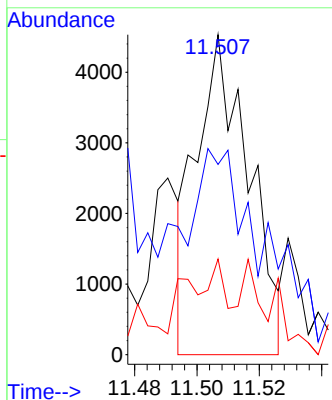
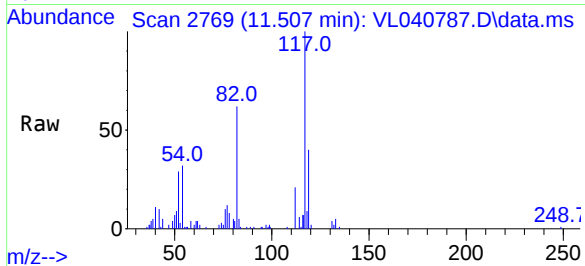




#57
Chlorobenzene
Concen: 0.034 ppbv
RT: 11.507 min Scan# 21
Delta R.T. -0.029 min
Lab File: VL040787.D
Acq: 23 Oct 2023 20:32

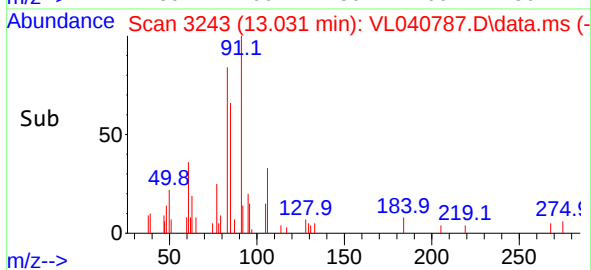
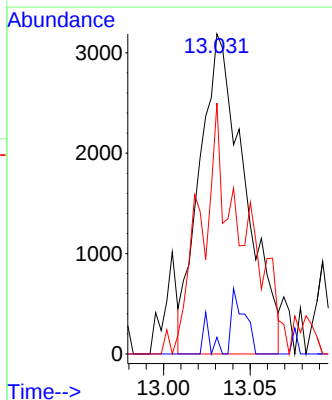
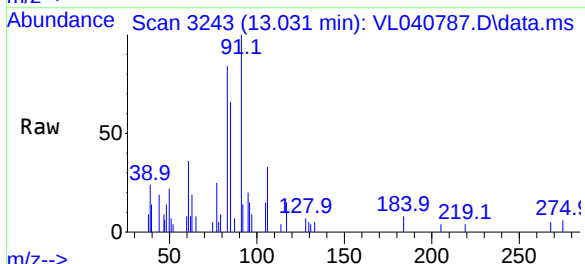
Instrument :
MSVOA_L
ClientSampleId :

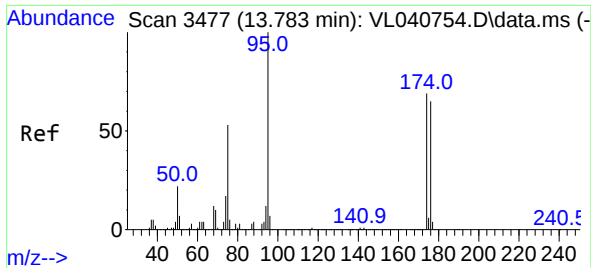
Tgt Ion:112 Resp: 5313
Ion Ratio Lower Upper
112 100
77 26.0 51.9 77.9#
114 8.2 28.6 35.0#



#63
1,1,2,2-Tetrachloroethane
Concen: 0.036 ppbv
RT: 13.031 min Scan# 3243
Delta R.T. -0.022 min
Lab File: VL040787.D
Acq: 23 Oct 2023 20:32

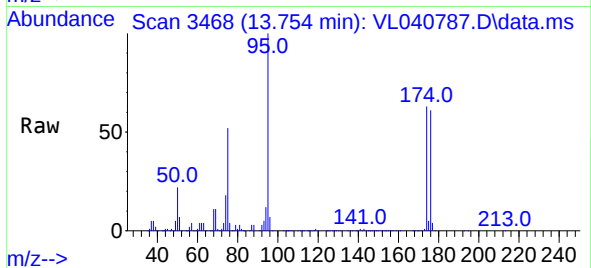
Tgt Ion: 83 Resp: 5792
Ion Ratio Lower Upper
83 100
131 7.8 4.9 14.6
85 78.7 32.9 98.7





#68
1-Bromo-4-Fluorobenzene
Concen: 10.134 ppbv
RT: 13.754 min Scan# 34
Delta R.T. -0.029 min
Lab File: VL040787.D
Acq: 23 Oct 2023 20:32

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 95 Resp: 1626360
Ion Ratio Lower Upper
95 100
174 67.0 54.7 82.1
175 5.1 4.2 6.4

