

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092524\
 Data File : VL041630.D
 Acq On : 25 Sep 2024 21:55
 Operator : SY/MD
 Sample : VIBLK
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 26 01:28:08 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 17 09:12:21 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.169	49	979639	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.632	114	2672180	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.452	117	2340957	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1716488	9.961	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%

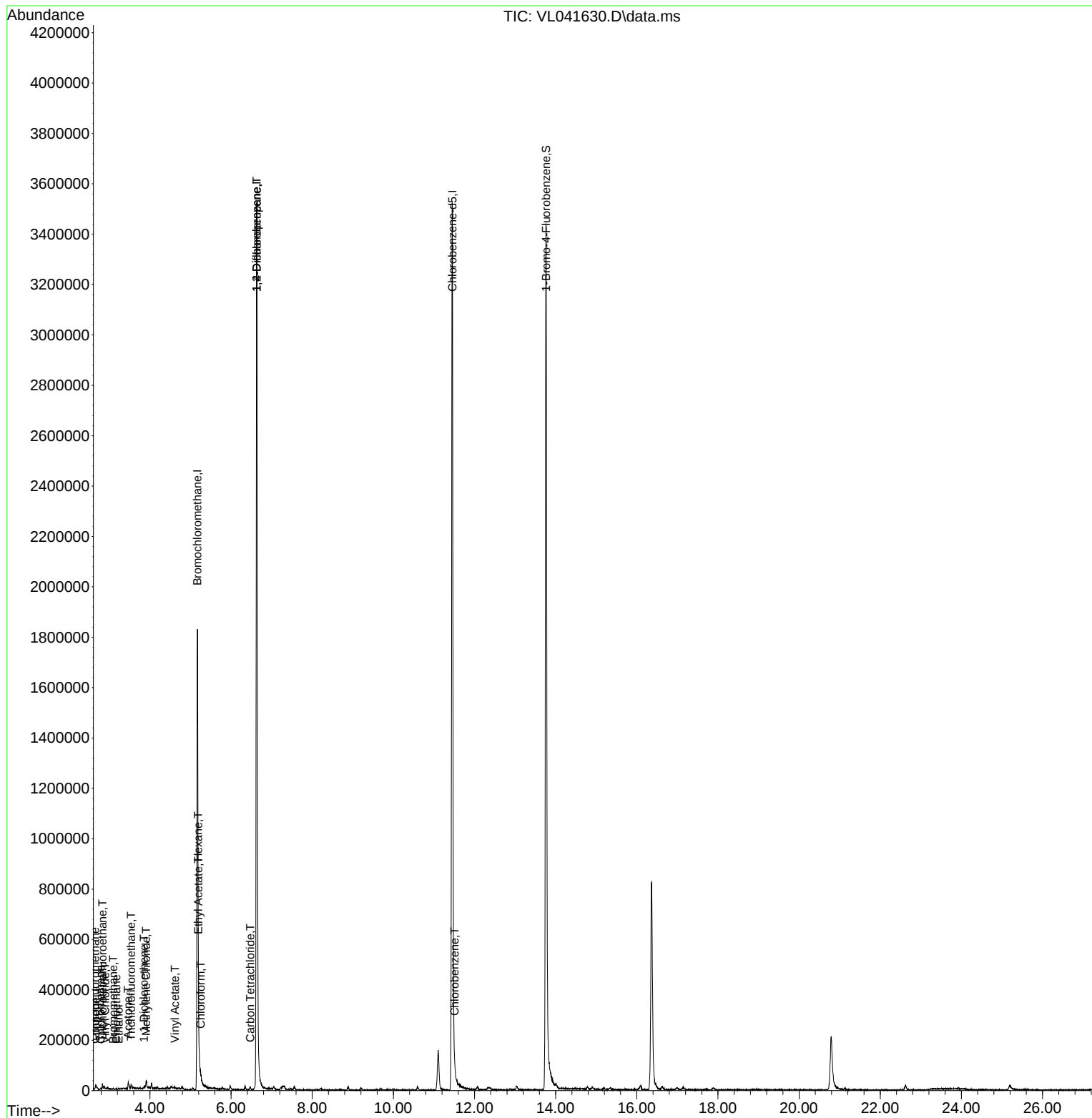
Target Compounds						Qvalue
3) Chlorodifluoromethane	2.648	51	6079	0.051	ppbv	96
4) Chloromethane	2.787	50	4535	0.069	ppbv #	73
5) Vinyl Chloride	2.896	62	3117	0.055	ppbv	97
6) Bromomethane	3.095	94	1456	0.052	ppbv #	4
7) Chloroethane	3.173	64	848	0.039	ppbv #	70
8) Dichlorotetrafluoroethane	2.828	85	6816	0.046	ppbv	92
9) Propene	2.668	41	6793	0.136	ppbv	98
11) Trichlorofluoromethane	3.536	101	6393	0.042	ppbv	91
13) Ethanol	3.230	45	847	0.225	ppbv #	30
15) Acetone	3.462	43	11117	0.090	ppbv #	1
18) 1,1-Dichloroethene	3.851	96	1928	0.042	ppbv #	70
20) Methylene Chloride	3.909	84	8551	0.185	ppbv	95
23) Vinyl Acetate	4.616	43	4792	0.071	ppbv #	77
25) Ethyl Acetate	5.195	43	7232	0.033	ppbv #	75
26) Hexane	5.189	57	3044	0.033	ppbv #	1
29) Chloroform	5.253	83	5122	0.034	ppbv	94
35) Carbon Tetrachloride	6.471	117	4396	0.034	ppbv	88
39) 1,2-Dichloropropane	6.632	63	667229	8.838	ppbv #	24
57) Chlorobenzene	11.510	112	5376	0.032	ppbv #	37

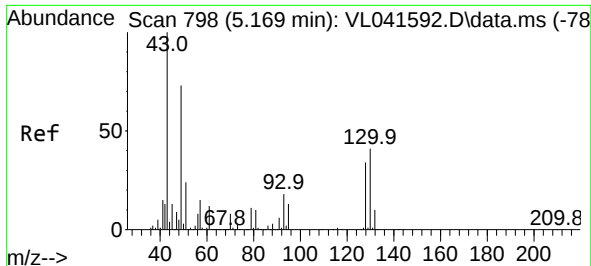
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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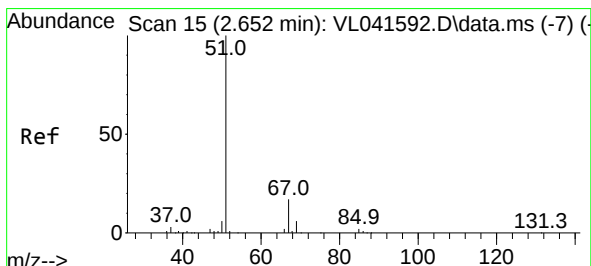
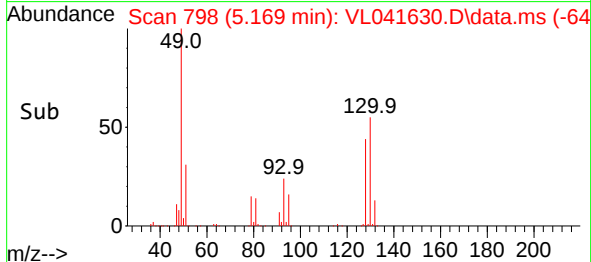
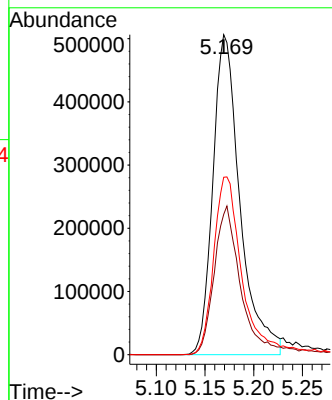
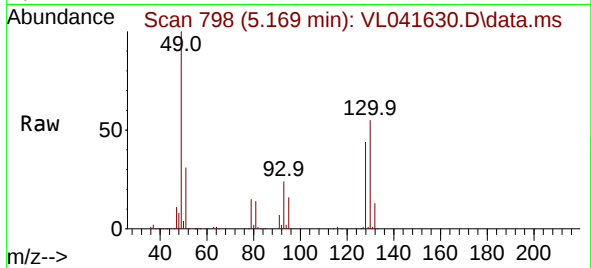




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.169 min Scan# 798
Delta R.T. 0.000 min
Lab File: VL041630.D
Acq: 25 Sep 2024 21:55

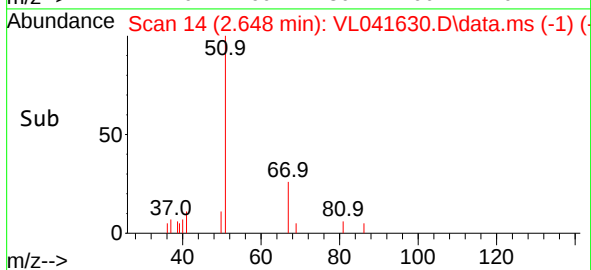
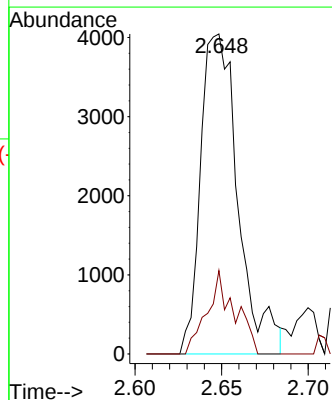
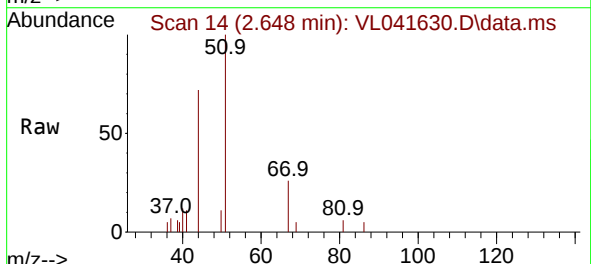
Instrument :
MSVOA_L
ClientSampleId :

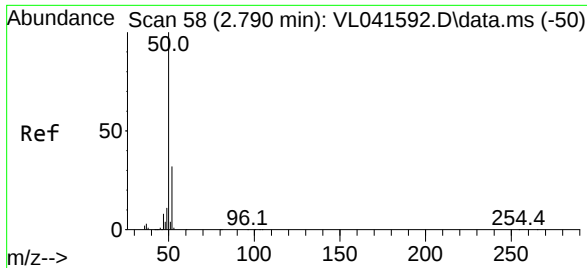
Tgt Ion: 49 Resp: 979639
Ion Ratio Lower Upper
49 100
128 47.9 23.8 71.5
130 60.7 30.4 91.3



#3
Chlorodifluoromethane
Concen: 0.051 ppbv
RT: 2.648 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL041630.D
Acq: 25 Sep 2024 21:55

Tgt Ion: 51 Resp: 6079
Ion Ratio Lower Upper
51 100
67 19.3 14.1 21.1

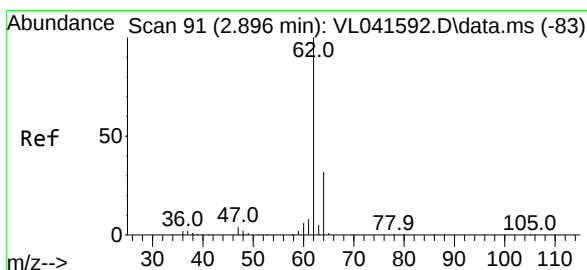
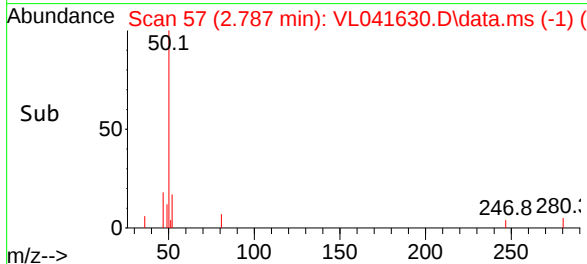
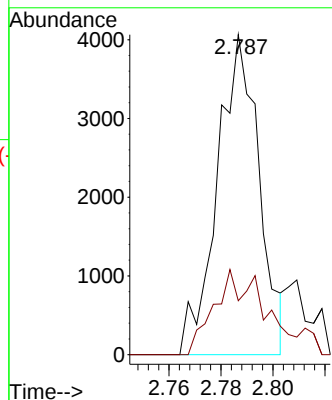
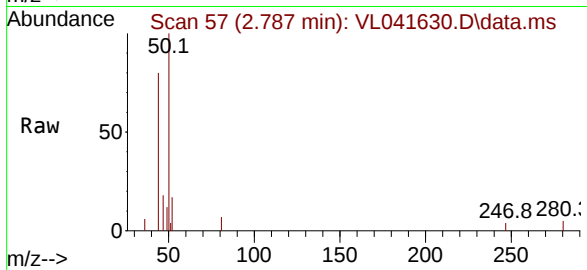




#4
Chloromethane
Concen: 0.069 ppbv
RT: 2.787 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL041630.D
Acq: 25 Sep 2024 21:55

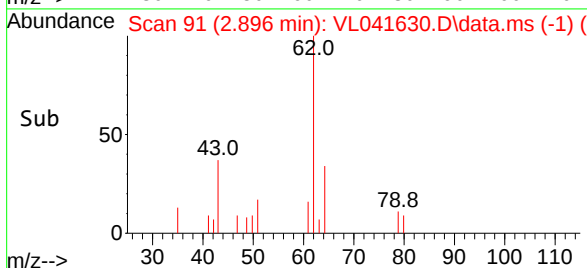
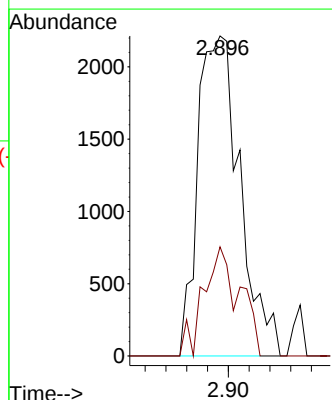
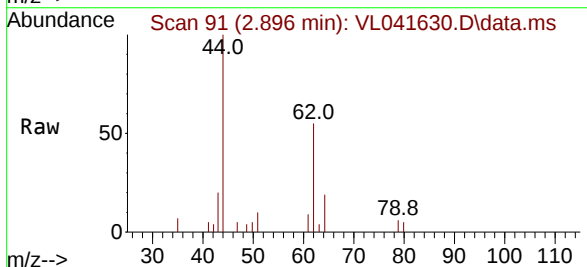
Instrument :
MSVOA_L
ClientSampleId :

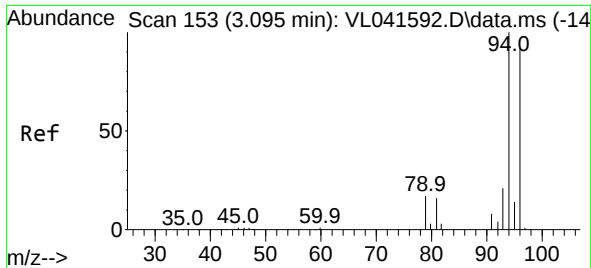
Tgt Ion: 50 Resp: 4535
Ion Ratio Lower Upper
50 100
52 16.9 25.4 38.2#



#5
Vinyl Chloride
Concen: 0.055 ppbv
RT: 2.896 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL041630.D
Acq: 25 Sep 2024 21:55

Tgt Ion: 62 Resp: 3117
Ion Ratio Lower Upper
62 100
64 34.1 26.0 39.0

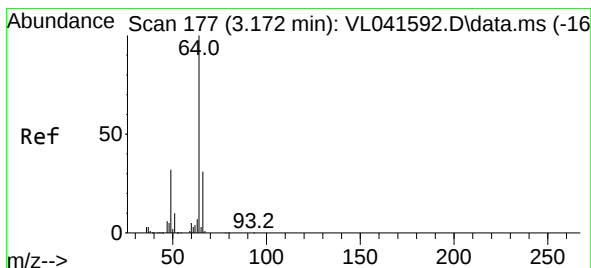
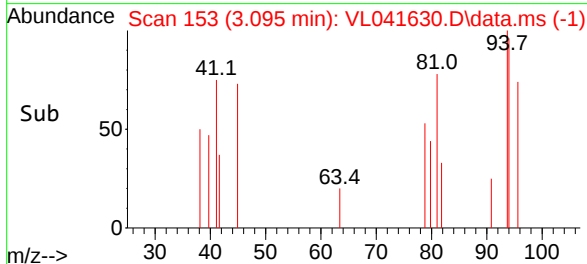
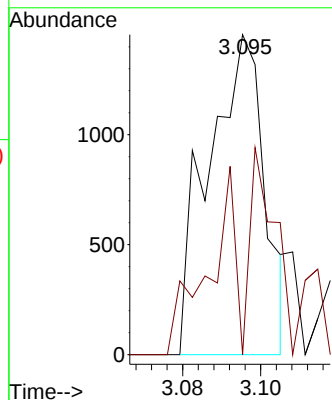
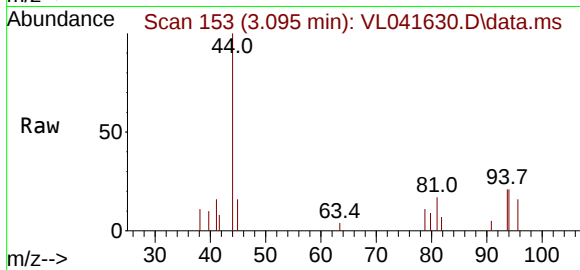




#6
Bromomethane
Concen: 0.052 ppbv
RT: 3.095 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL041630.D
Acq: 25 Sep 2024 21:55

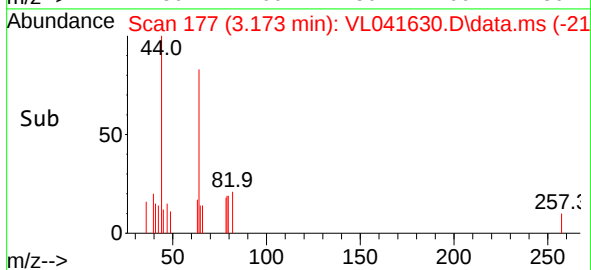
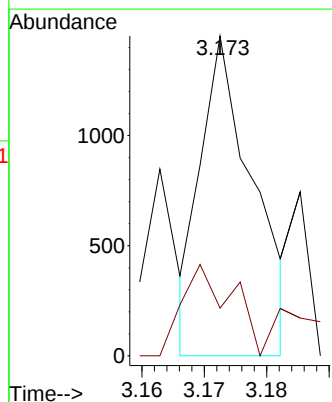
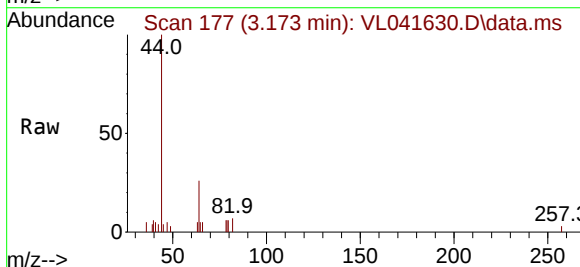
Instrument :
MSVOA_L
ClientSampleId :

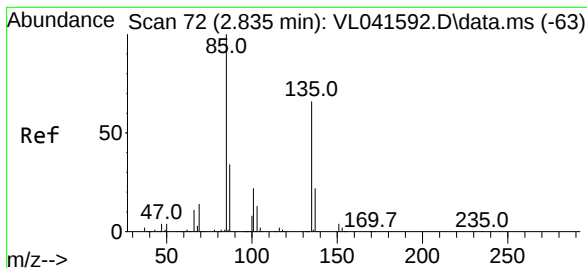
Tgt Ion: 94 Resp: 1456
Ion Ratio Lower Upper
94 100
96 0.0 73.4 110.2#



#7
Chloroethane
Concen: 0.039 ppbv
RT: 3.173 min Scan# 177
Delta R.T. 0.000 min
Lab File: VL041630.D
Acq: 25 Sep 2024 21:55

Tgt Ion: 64 Resp: 848
Ion Ratio Lower Upper
64 100
66 14.9 25.1 37.7#

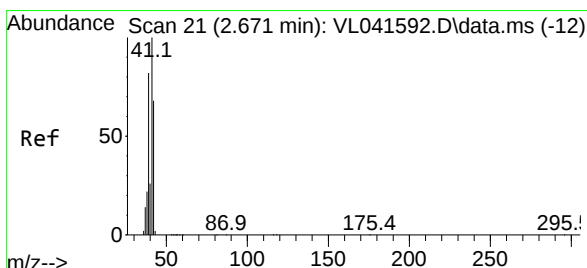
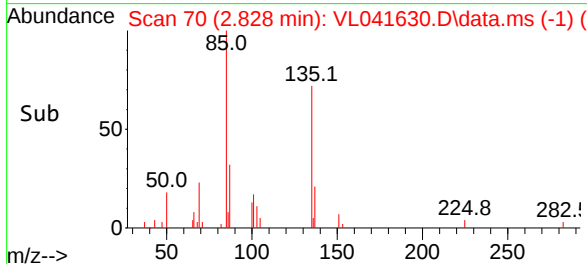
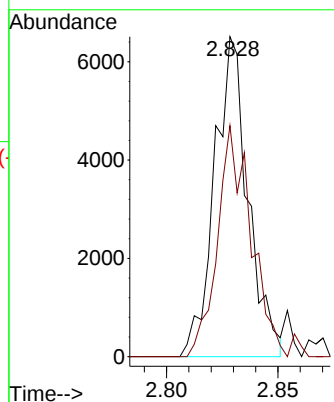
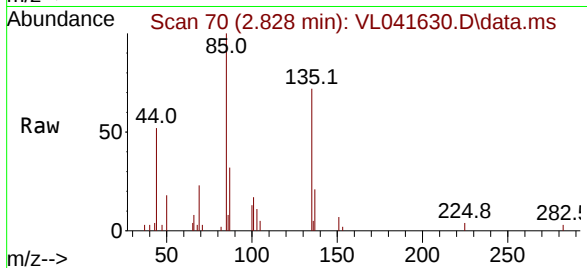




#8
Dichlorotetrafluoroethane
Concen: 0.046 ppbv
RT: 2.828 min Scan# 70
Delta R.T. -0.006 min
Lab File: VL041630.D
Acq: 25 Sep 2024 21:55

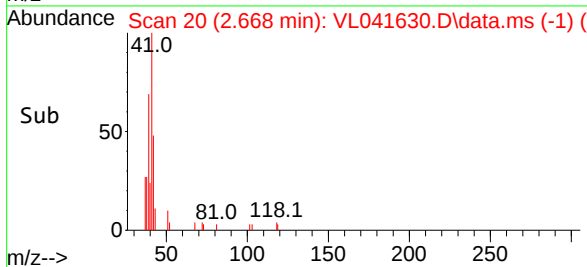
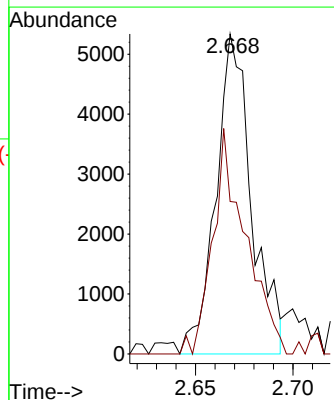
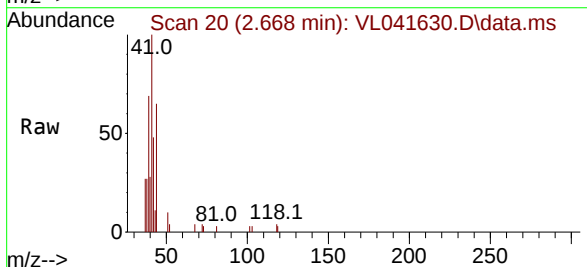
Instrument :
MSVOA_L
ClientSampleId :

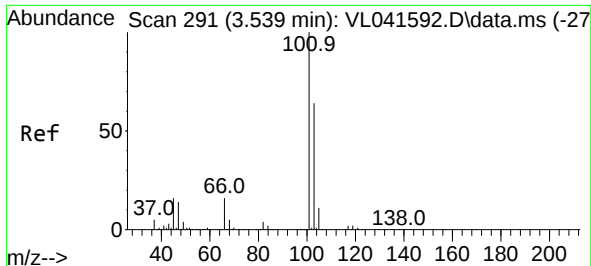
Tgt Ion: 85 Resp: 6816
Ion Ratio Lower Upper
85 100
135 74.0 53.9 80.9



#9
Propene
Concen: 0.136 ppbv
RT: 2.668 min Scan# 20
Delta R.T. -0.003 min
Lab File: VL041630.D
Acq: 25 Sep 2024 21:55

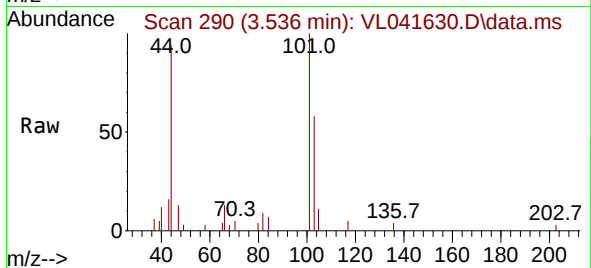
Tgt Ion: 41 Resp: 6793
Ion Ratio Lower Upper
41 100
42 67.1 55.2 82.8



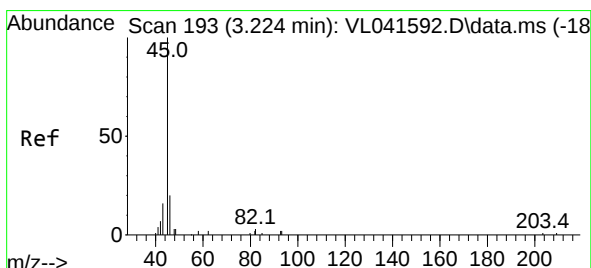
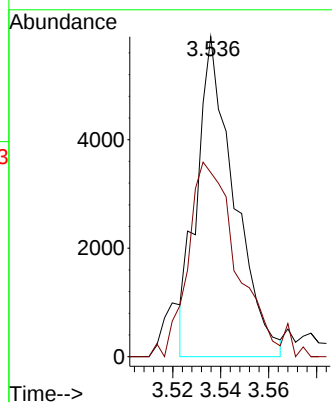
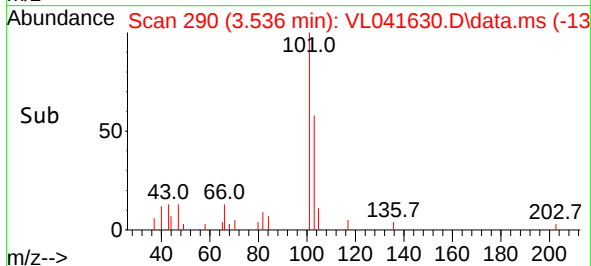


#11
 Trichlorofluoromethane
 Concen: 0.042 ppbv
 RT: 3.536 min Scan# 291
 Delta R.T. -0.003 min
 Lab File: VL041630.D
 Acq: 25 Sep 2024 21:55

Instrument :
 MSVOA_L
 ClientSampleId :

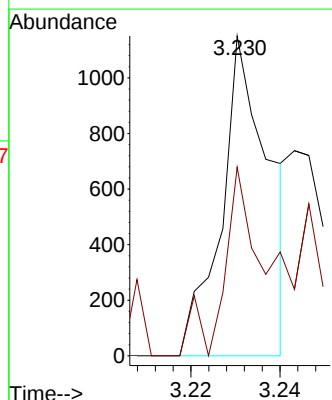
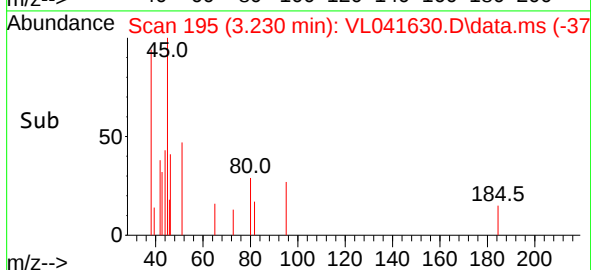
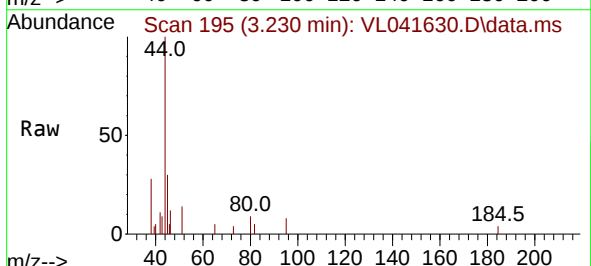


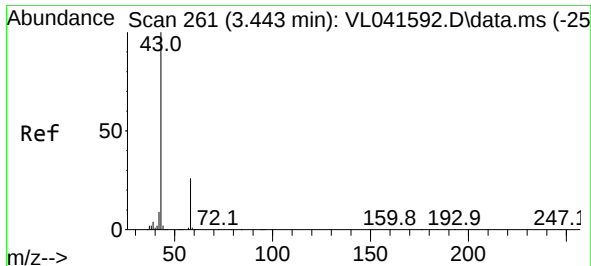
Tgt Ion:101 Resp: 6393
 Ion Ratio Lower Upper
 101 100
 103 57.2 51.2 76.8



#13
 Ethanol
 Concen: 0.225 ppbv
 RT: 3.230 min Scan# 195
 Delta R.T. 0.006 min
 Lab File: VL041630.D
 Acq: 25 Sep 2024 21:55

Tgt Ion: 45 Resp: 847
 Ion Ratio Lower Upper
 45 100
 46 80.2 15.2 60.8#





#15

Acetone

Concen: 0.090 ppbv

RT: 3.462 min Scan# 2

Delta R.T. 0.019 min

Lab File: VL041630.D

Acq: 25 Sep 2024 21:55

Instrument :

MSVOA_L

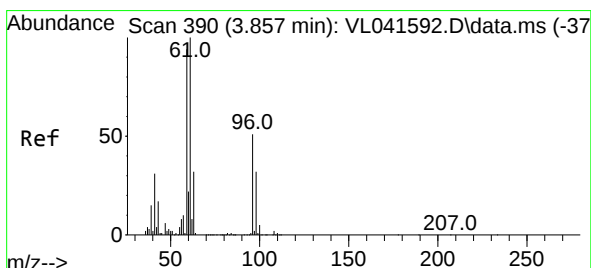
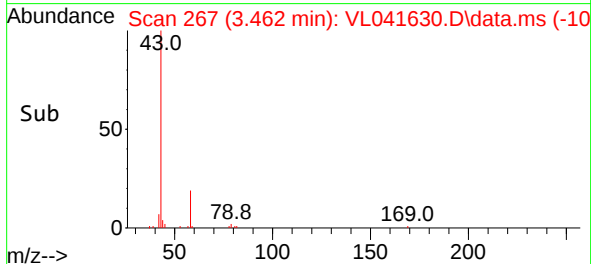
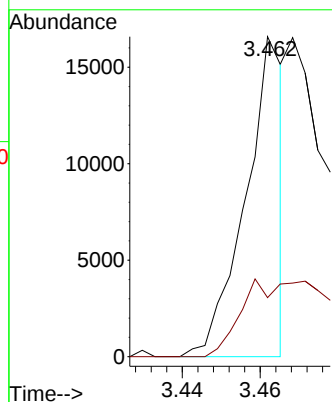
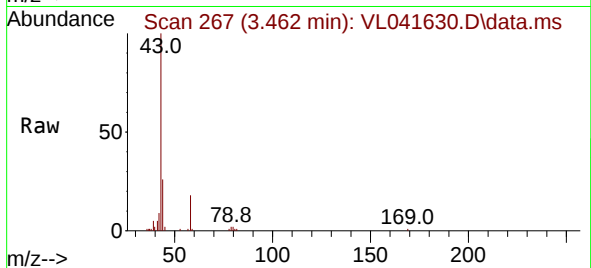
ClientSampleId :

Tgt Ion: 43 Resp: 11117

Ion Ratio Lower Upper

43 100

58 84.9 21.5 32.3#



#18

1,1-Dichloroethene

Concen: 0.042 ppbv

RT: 3.851 min Scan# 388

Delta R.T. -0.006 min

Lab File: VL041630.D

Acq: 25 Sep 2024 21:55

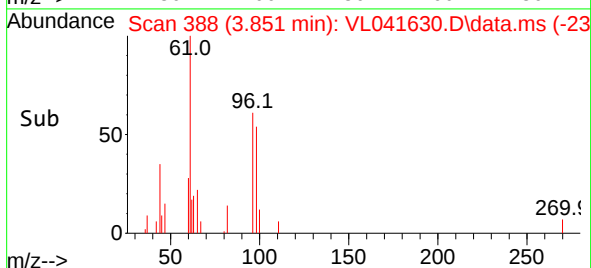
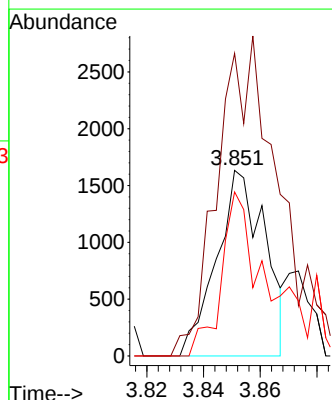
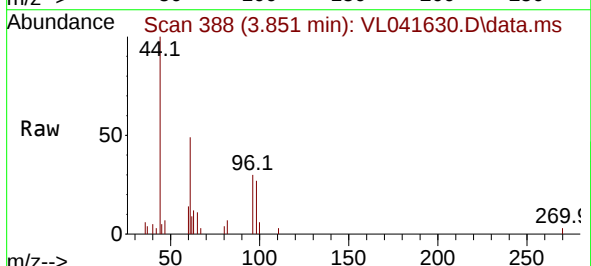
Tgt Ion: 96 Resp: 1928

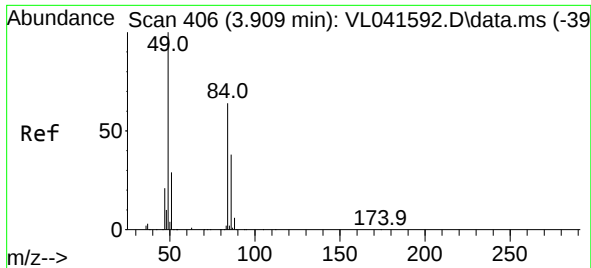
Ion Ratio Lower Upper

96 100

61 151.9 155.6 233.4#

98 88.3 50.6 75.8#



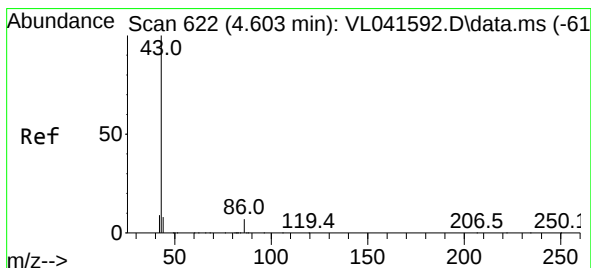
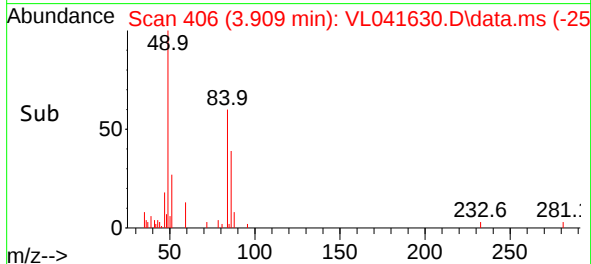
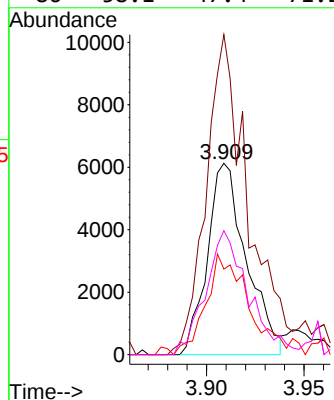
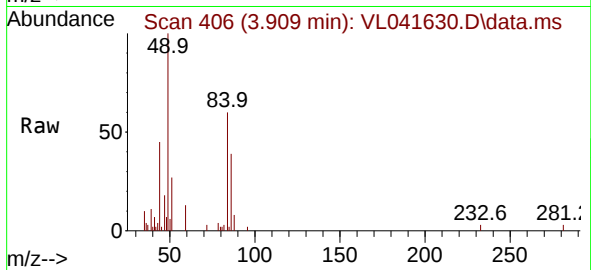


#20
Methylene Chloride
Concen: 0.185 ppbv
RT: 3.909 min Scan# 406
Delta R.T. 0.000 min
Lab File: VL041630.D
Acq: 25 Sep 2024 21:55

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 84 Resp: 8551

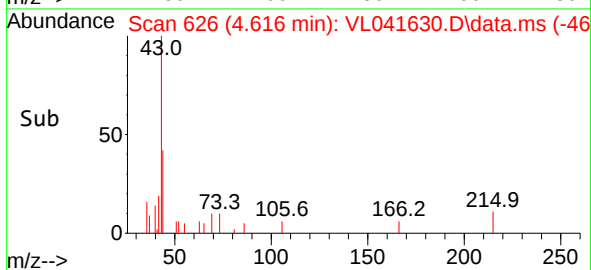
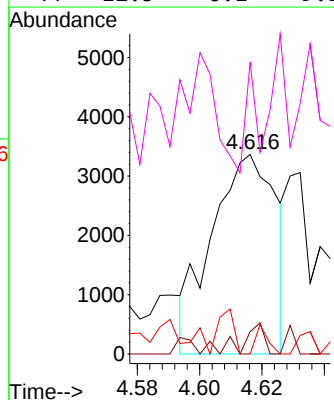
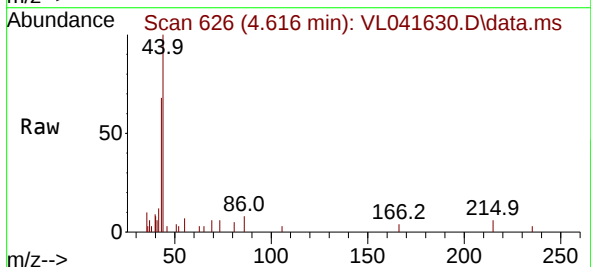
Ion	Ratio	Lower	Upper
84	100		
49	161.9	124.3	186.5
51	40.3	36.3	54.5
86	58.1	47.4	71.2

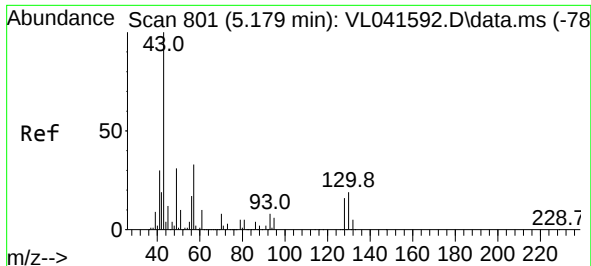


#23
Vinyl Acetate
Concen: 0.071 ppbv
RT: 4.616 min Scan# 626
Delta R.T. 0.013 min
Lab File: VL041630.D
Acq: 25 Sep 2024 21:55

Tgt Ion: 43 Resp: 4792

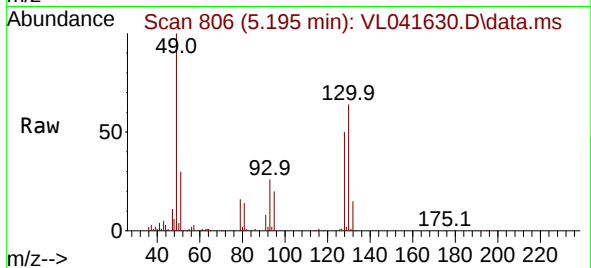
Ion	Ratio	Lower	Upper
43	100		
86	15.7	4.9	7.3#
42	0.0	8.0	12.0#
44	12.5	6.1	9.1#



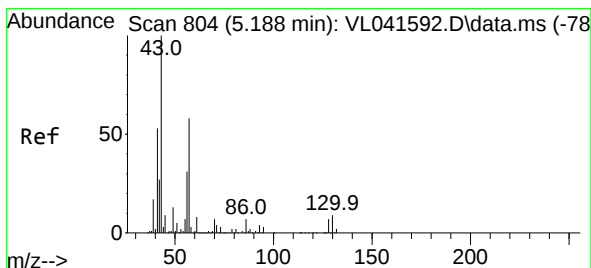
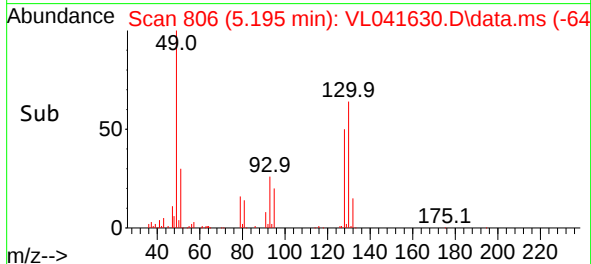
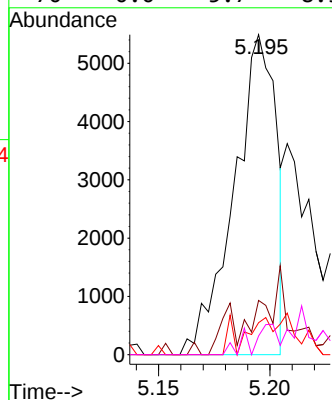


#25
Ethyl Acetate
Concen: 0.033 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.016 min
Lab File: VL041630.D
Acq: 25 Sep 2024 21:55

Instrument :
MSVOA_L
ClientSampleId :

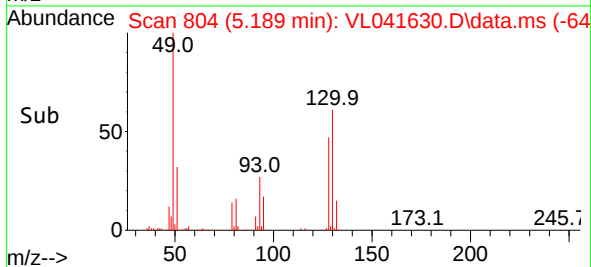
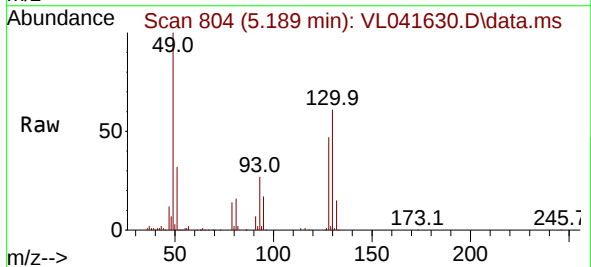
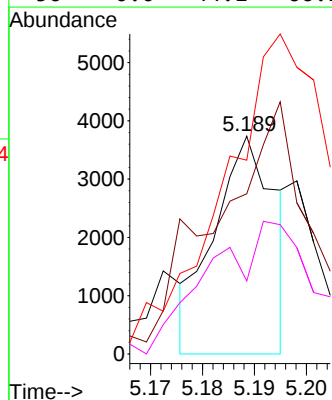


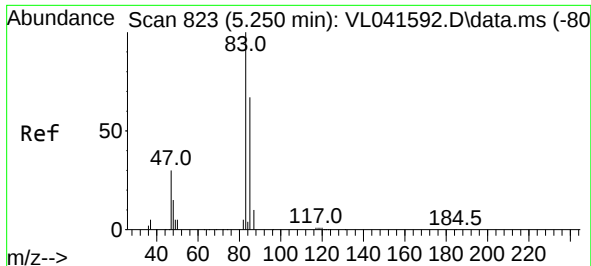
Tgt Ion:	43	Resp:	7232
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.2#
61	0.0	8.0	12.0#
70	0.0	5.7	8.5#



#26
Hexane
Concen: 0.033 ppbv
RT: 5.189 min Scan# 804
Delta R.T. 0.000 min
Lab File: VL041630.D
Acq: 25 Sep 2024 21:55

Tgt Ion:	57	Resp:	3044
Ion	Ratio	Lower	Upper
57	100		
41	0.0	75.7	113.5#
43	0.0	198.5	297.7#
56	0.0	44.1	66.1#





#29

Chloroform

Concen: 0.034 ppbv

RT: 5.253 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL041630.D

Acq: 25 Sep 2024 21:55

Instrument :

MSVOA_L

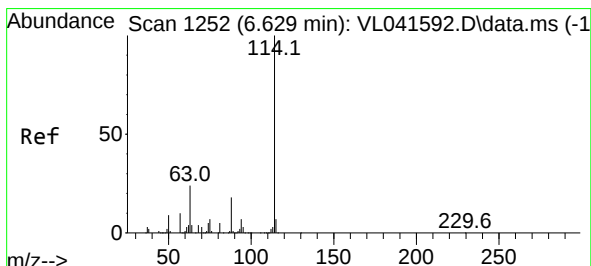
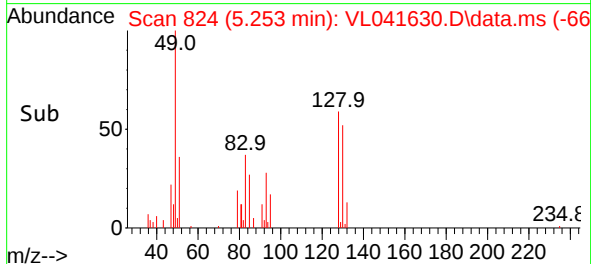
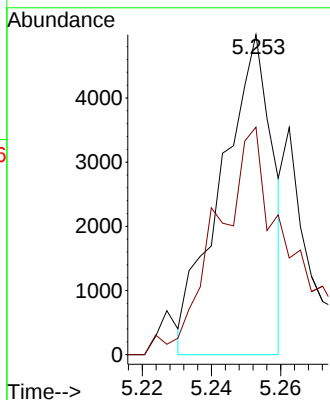
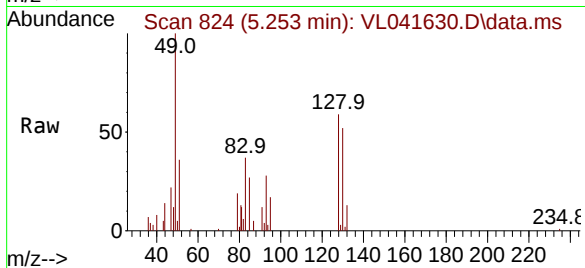
ClientSampleId :

Tgt Ion: 83 Resp: 5122

Ion Ratio Lower Upper

83 100

85 71.7 53.8 80.6



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.632 min Scan# 1253

Delta R.T. 0.003 min

Lab File: VL041630.D

Acq: 25 Sep 2024 21:55

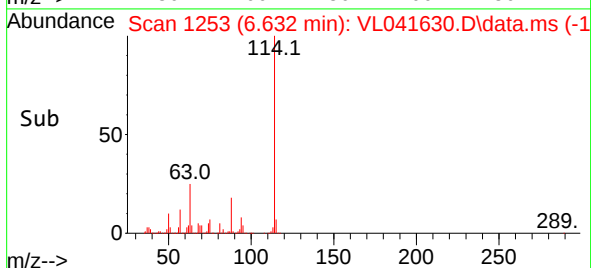
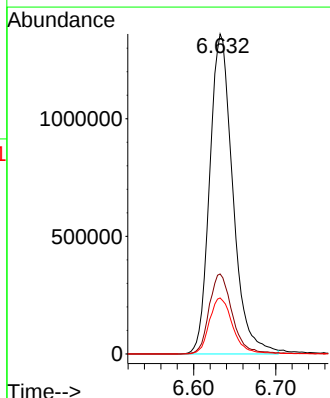
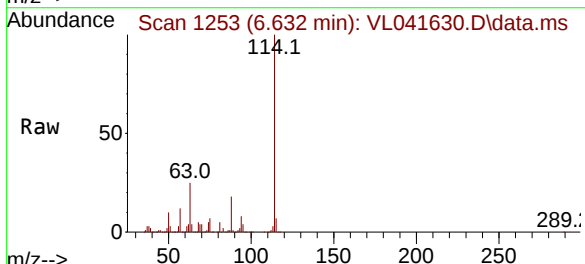
Tgt Ion:114 Resp: 2672180

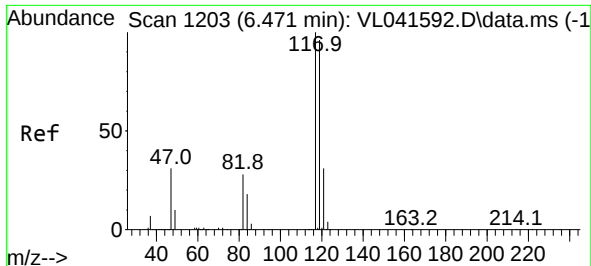
Ion Ratio Lower Upper

114 100

63 25.3 20.2 30.2

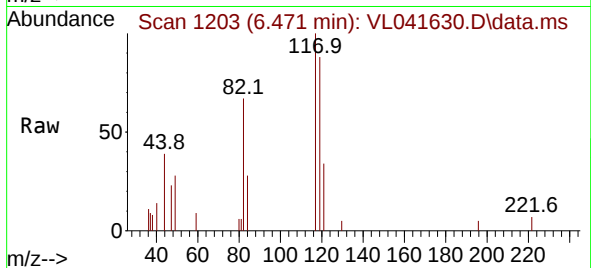
88 17.9 14.2 21.4



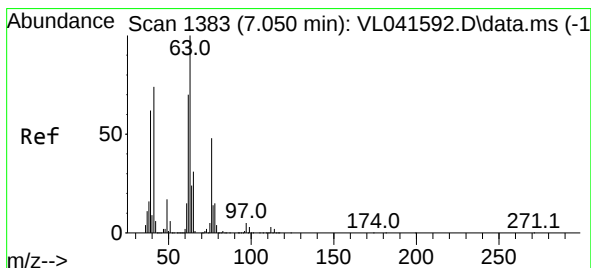
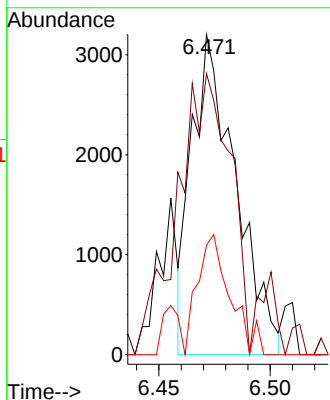
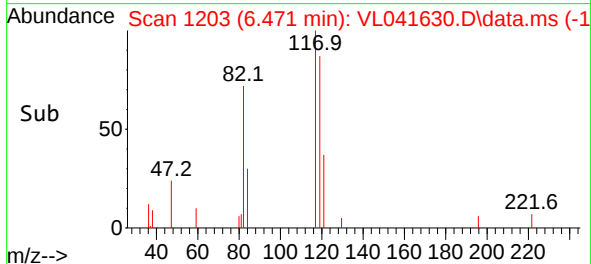


#35
Carbon Tetrachloride
Concen: 0.034 ppbv
RT: 6.471 min Scan# 117
Delta R.T. 0.000 min
Lab File: VL041630.D
Acq: 25 Sep 2024 21:55

Instrument :
MSVOA_L
ClientSampleId :

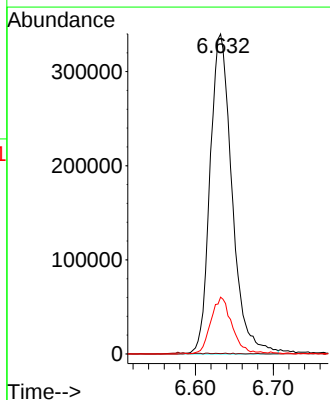
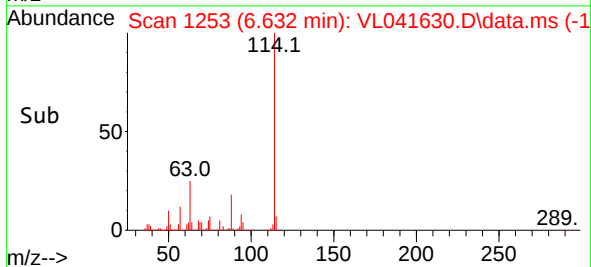
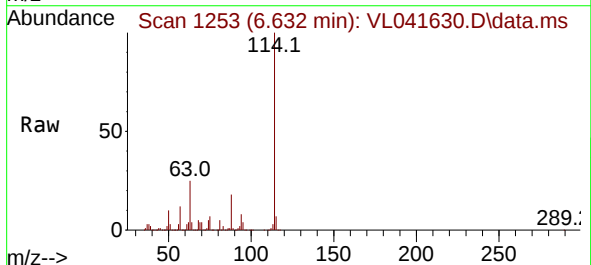


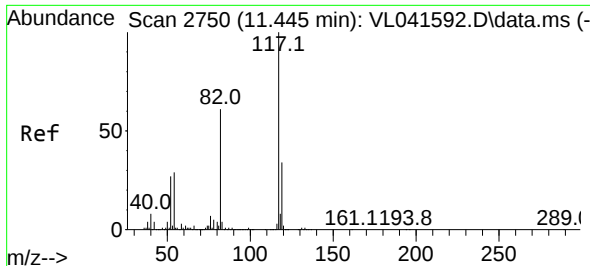
Tgt Ion:117 Resp: 4396
Ion Ratio Lower Upper
117 100
119 83.8 76.8 115.2
121 36.7 25.0 37.6



#39
1,2-Dichloropropane
Concen: 8.838 ppbv
RT: 6.632 min Scan# 1253
Delta R.T. -0.418 min
Lab File: VL041630.D
Acq: 25 Sep 2024 21:55

Tgt Ion: 63 Resp: 667229
Ion Ratio Lower Upper
63 100
41 0.0 59.5 89.3#
62 17.8 56.2 84.2#

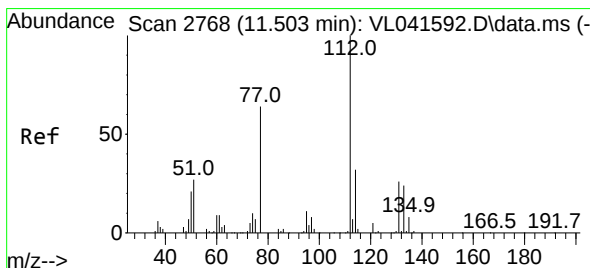
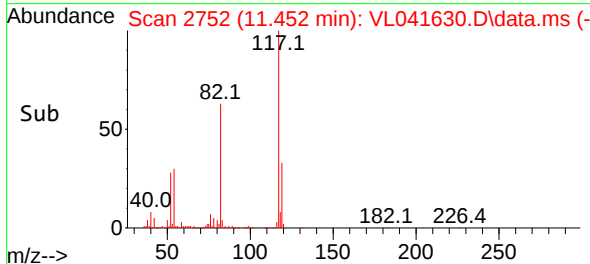
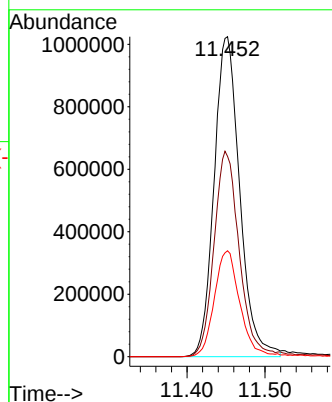
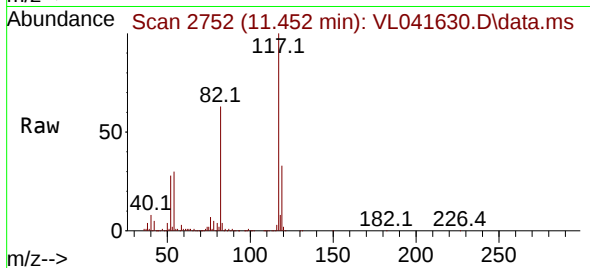




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL041630.D
Acq: 25 Sep 2024 21:55

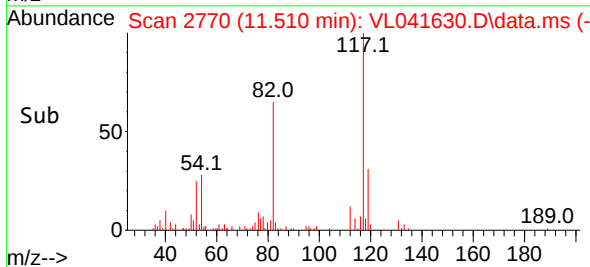
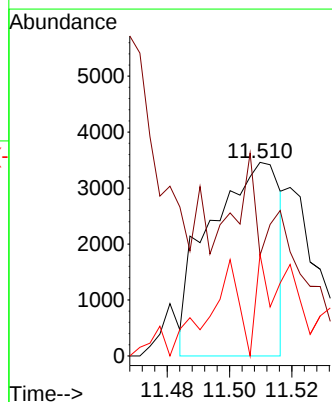
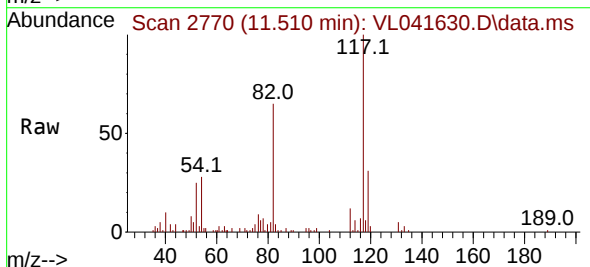
Instrument :
MSVOA_L
ClientSampleId :

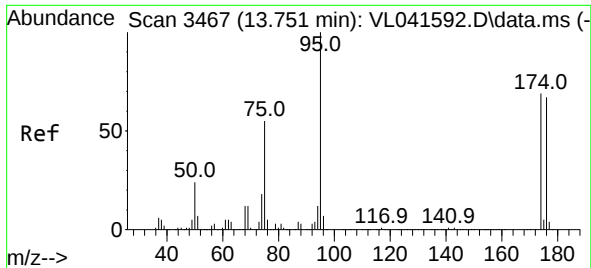
Tgt Ion:117 Resp: 2340957
Ion Ratio Lower Upper
117 100
82 64.5 49.4 74.2
119 33.6 24.4 36.6



#57
Chlorobenzene
Concen: 0.032 ppbv
RT: 11.510 min Scan# 2770
Delta R.T. 0.007 min
Lab File: VL041630.D
Acq: 25 Sep 2024 21:55

Tgt Ion:112 Resp: 5376
Ion Ratio Lower Upper
112 100
77 0.0 52.0 78.0#
114 44.6 28.6 35.0#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.961 ppbv
 RT: 13.764 min Scan# 34
 Delta R.T. 0.013 min
 Lab File: VL041630.D
 Acq: 25 Sep 2024 21:55

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 95 Resp: 1716488
 Ion Ratio Lower Upper
 95 100
 174 71.3 55.8 83.8
 175 5.0 4.1 6.1

