

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011321\
 Data File : VL036222.D
 Acq On : 13 Jan 2021 12:36
 Operator : SY/AP
 Sample : M1066-03 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 0121-SS3DL

Quant Time: Jan 13 22:06:39 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jan 13 07:53:51 2021
 QLast Update : Wed Jan 13 07:53:51 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1524279	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3253892	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2939058	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.42	95	2387468	9.81	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.10%	

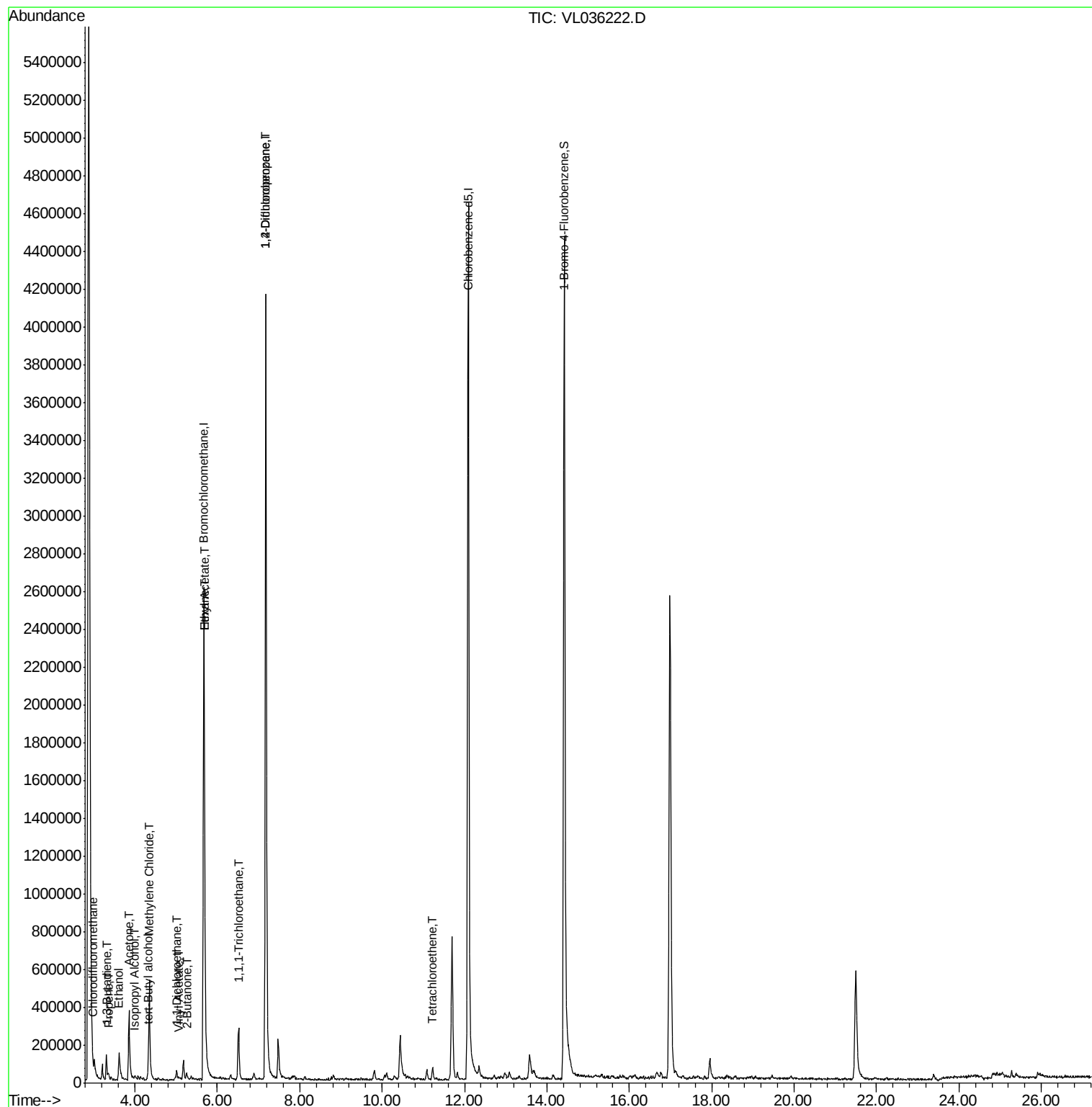
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	12528	0.066	ppbv #	91
9) Propene	3.36	41	6555	0.073	ppbv	98
13) Ethanol	3.62	45	145215	7.675	ppbv	88
15) Acetone	3.85	43	460301	2.543	ppbv	94
16) 1,3-Butadiene	3.33	39	9622	0.112	ppbv	98
17) tert-Butyl alcohol	4.31	59	14022	0.095	ppbv #	1
19) Isopropyl Alcohol	3.99	45	8813	0.084	ppbv #	93
20) Methylene Chloride	4.35	84	175109	3.159	ppbv	96
23) Vinyl Acetate	5.07	43	7136	0.031	ppbv #	75
24) 1,1-Dichloroethane	5.02	63	12923	0.080	ppbv	97
25) Ethyl Acetate	5.69	43	177161	0.481	ppbv #	78
26) Hexane	5.69	57	228112	1.480	ppbv #	38
32) 1,1,1-Trichloroethane	6.52	97	183674	0.844	ppbv	96
34) 2-Butanone	5.25	43	15882	0.077	ppbv #	56
39) 1,2-Dichloropropane	7.18	63	981227	8.106	ppbv #	21
52) Tetrachloroethene	11.22	164	6208	0.057	ppbv #	71

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

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0121-SS3DL

Quant Time: Jan 13 22:06:39 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL011321AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jan 13 07:53:51 2021
QLast Update : Wed Jan 13 07:53:51 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. 0.01 min

Lab File: VL036222.D

Acq: 13 Jan 2021 12:36

Instrument :

MSVOA_L

ClientSampleId :

0121-SS3DL

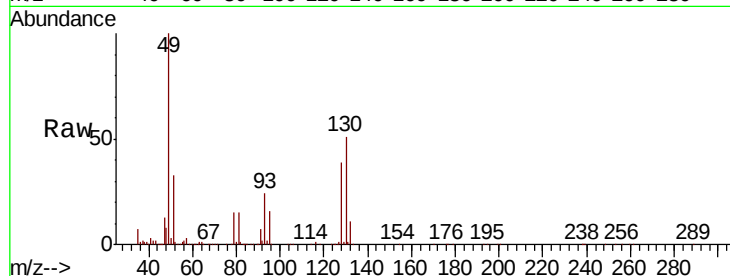
Tot Ion: 49 Resp: 1524279

Ion Ratio Lower Upper

49 100

128 40.7 20.1 60.2

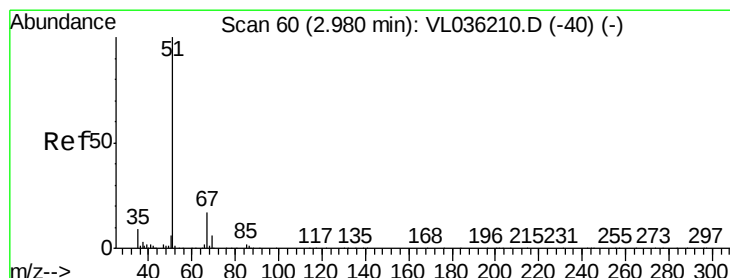
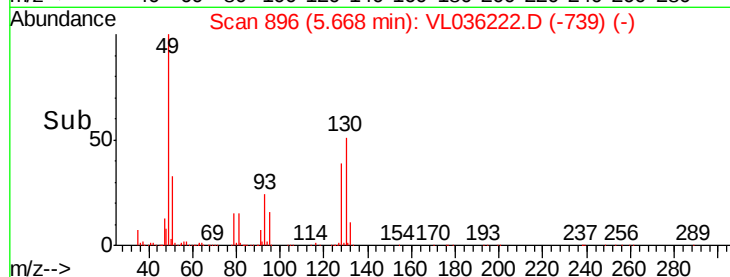
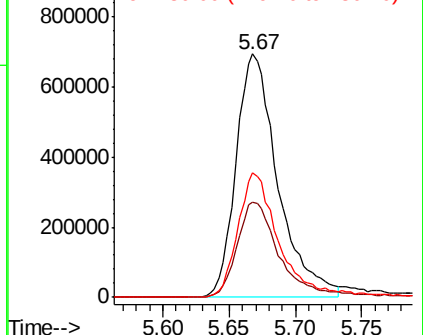
130 52.4 25.3 75.9



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#3

Chlorodifluoromethane

Concen: 0.066 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.01 min

Lab File: VL036222.D

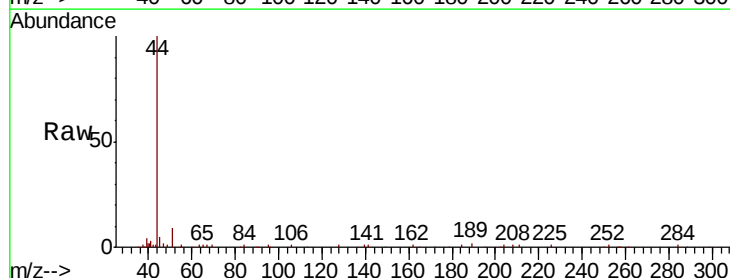
Acq: 13 Jan 2021 12:36

Tgt Ion: 51 Resp: 12528

Ion Ratio Lower Upper

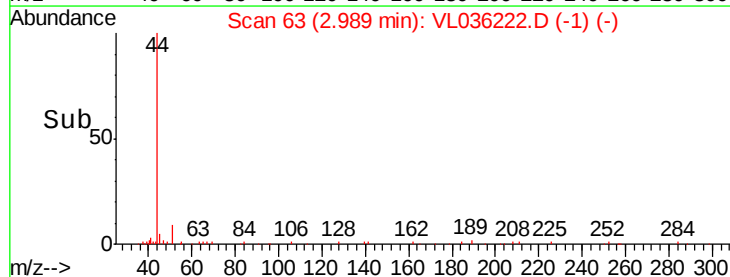
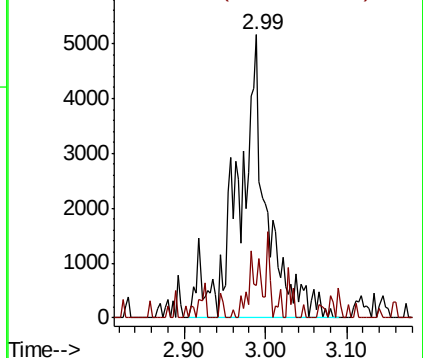
51 100

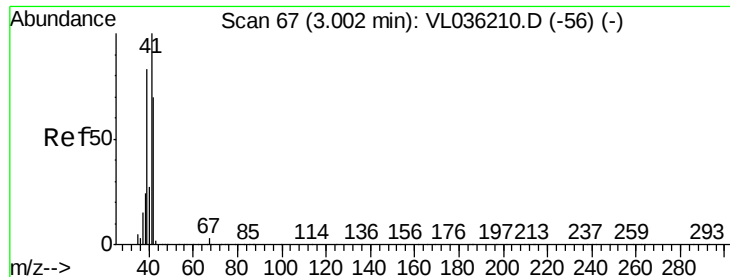
67 13.4 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.073 ppbv

RT: 3.36 min Scan# 177

Delta R.T. 0.35 min

Lab File: VL036222.D

Acq: 13 Jan 2021 12:36

Instrument :

MSVOA_L

ClientSampleId :

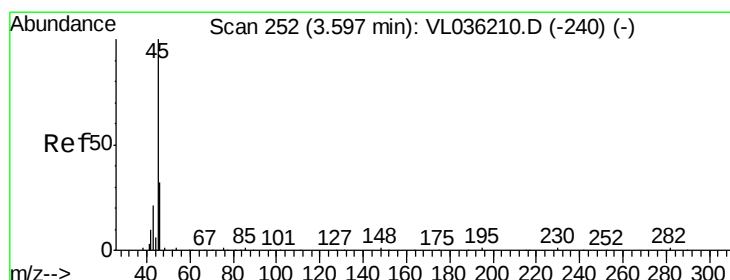
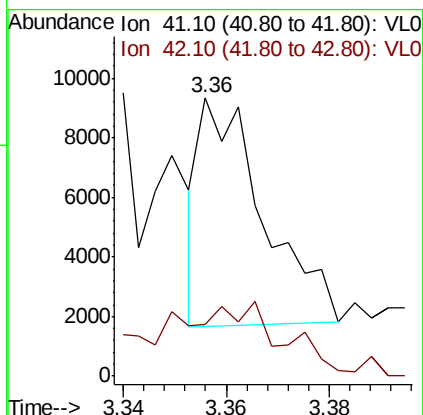
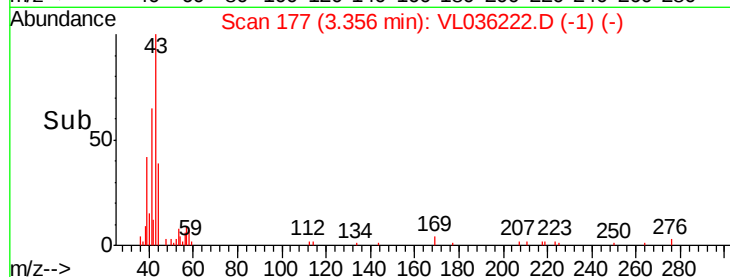
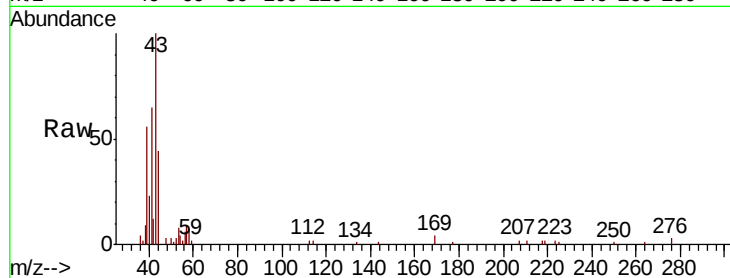
0121-SS3DL

Tot Ion: 41 Resp: 6555

Ion Ratio Lower Upper

41 100

42 72.7 57.1 85.7



#13

Ethanol

Concen: 7.675 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.02 min

Lab File: VL036222.D

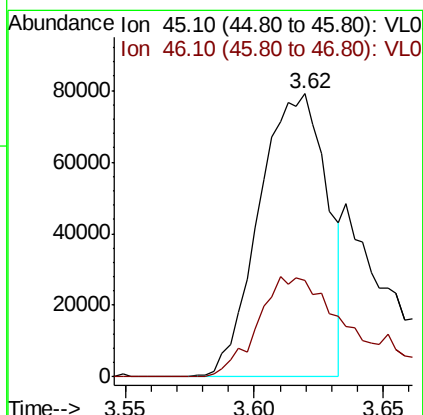
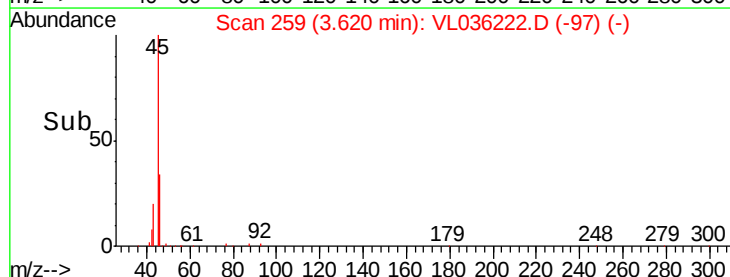
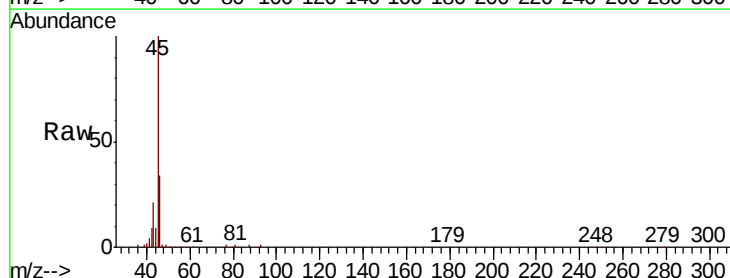
Acq: 13 Jan 2021 12:36

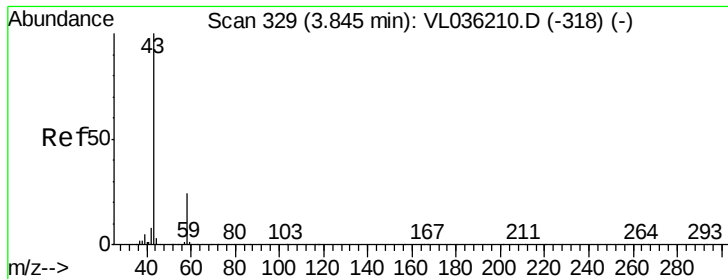
Tgt Ion: 45 Resp: 145215

Ion Ratio Lower Upper

45 100

46 56.5 19.2 77.0

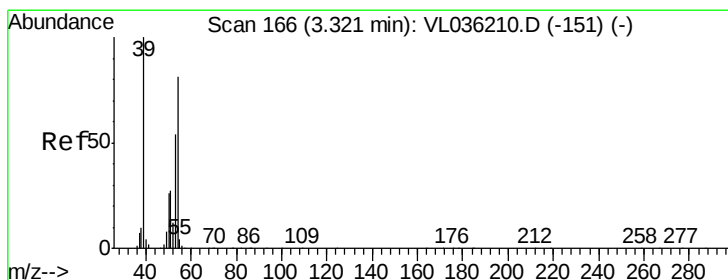
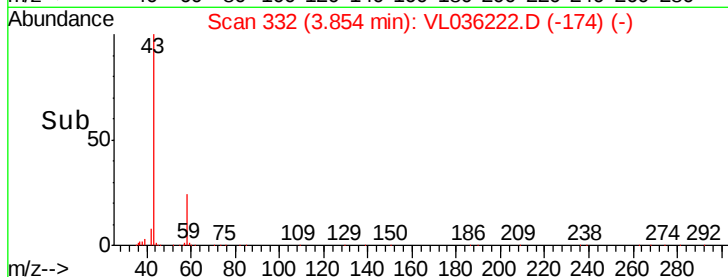
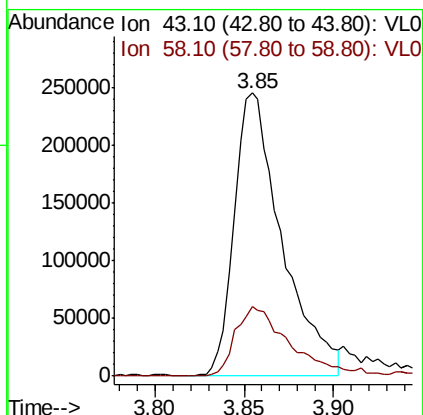
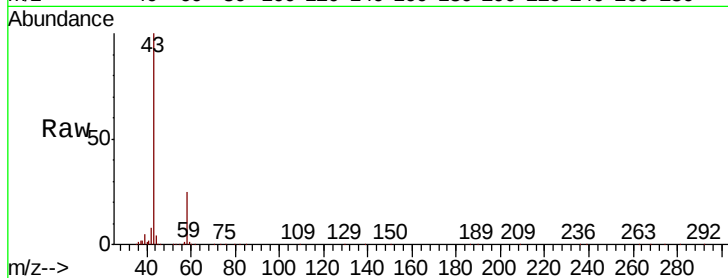




#15
Acetone
Concen: 2.543 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.01 min
Lab File: VL036222.D
Acq: 13 Jan 2021 12:36

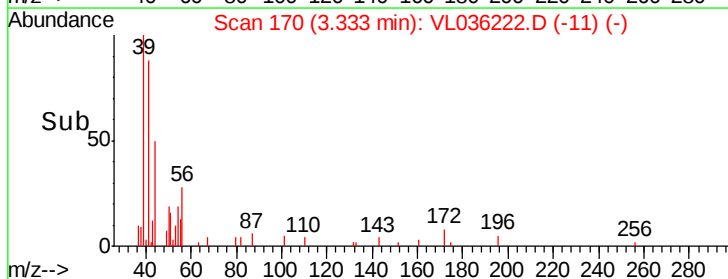
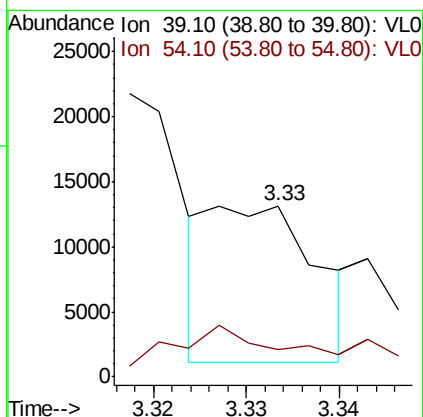
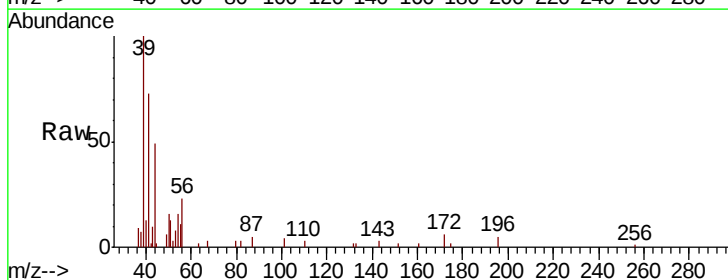
Instrument :
MSVOA_L
ClientSampleId :
0121-SS3DL

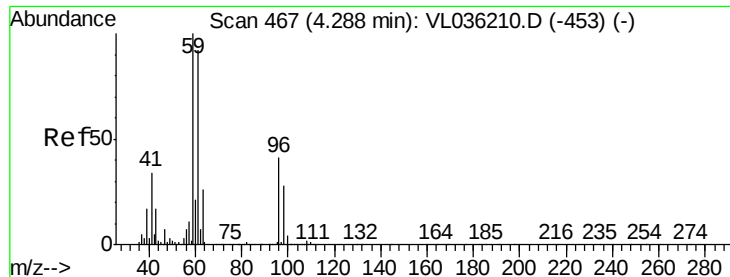
Tot Ion: 43 Resp: 460301
Ion Ratio Lower Upper
43 100
58 29.0 20.9 31.3



#16
1,3-Butadiene
Concen: 0.112 ppbv
RT: 3.33 min Scan# 170
Delta R.T. 0.01 min
Lab File: VL036222.D
Acq: 13 Jan 2021 12:36

Tgt Ion: 39 Resp: 9622
Ion Ratio Lower Upper
39 100
54 76.8 62.5 93.7



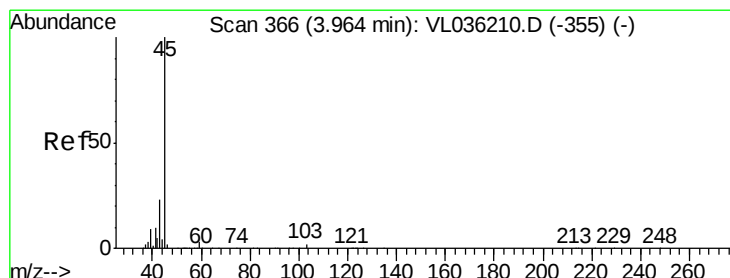
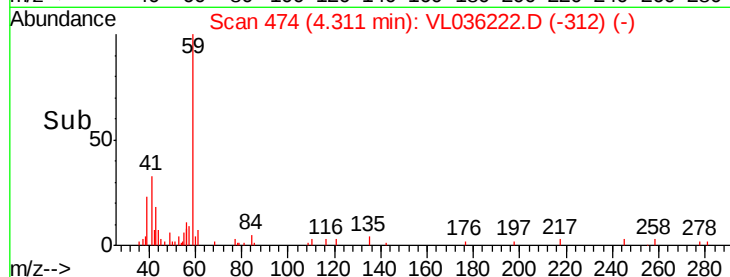
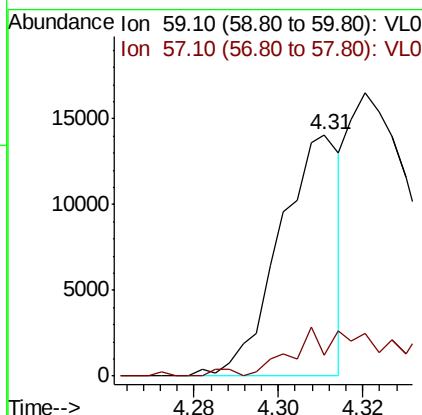
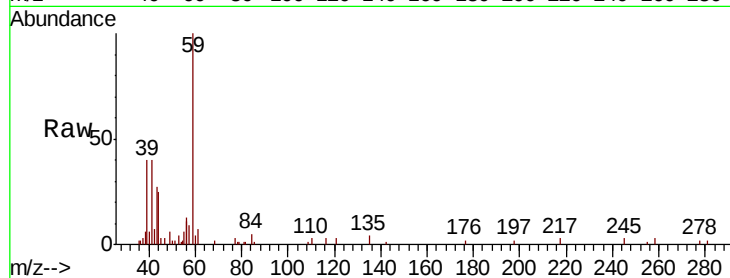


#17

tert-Butyl alcohol
 Concen: 0.095 ppbv
 RT: 4.31 min Scan# 474
 Delta R.T. 0.02 min
 Lab File: VL036222.D
 Acq: 13 Jan 2021 12:36

Instrument :
 MSVOA_L
 ClientSampleId :
 0121-SS3DL

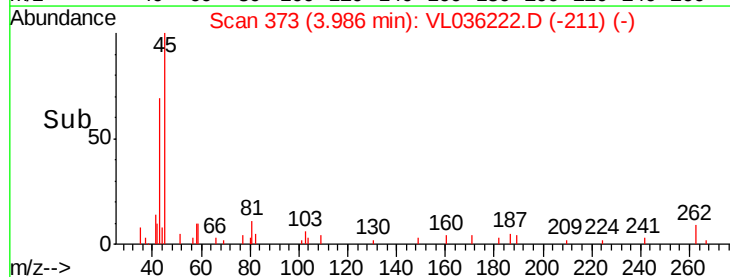
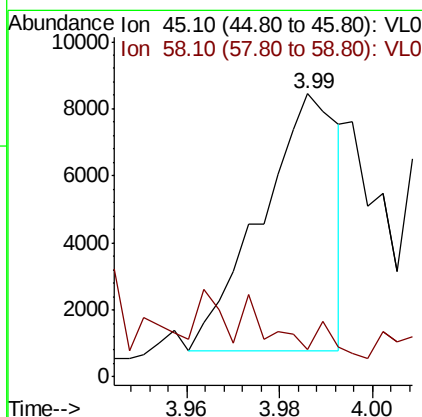
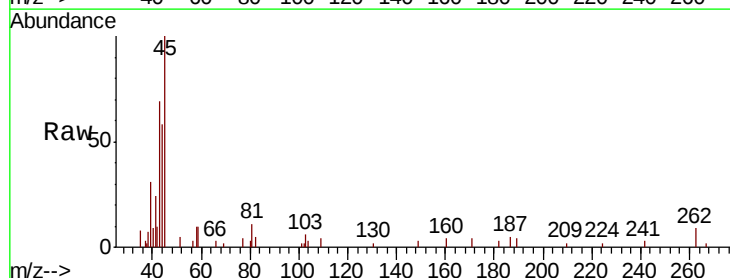
Tot Ion: 59 Resp: 14022
 Ion Ratio Lower Upper
 59 100
 57 50.3 9.2 13.8#

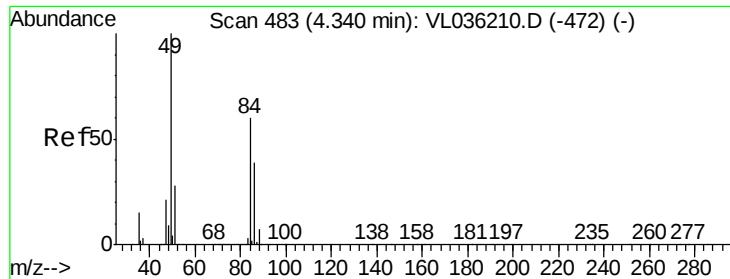


#19

Isopropyl Alcohol
 Concen: 0.084 ppbv
 RT: 3.99 min Scan# 373
 Delta R.T. 0.02 min
 Lab File: VL036222.D
 Acq: 13 Jan 2021 12:36

Tgt Ion: 45 Resp: 8813
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.9 2.9#

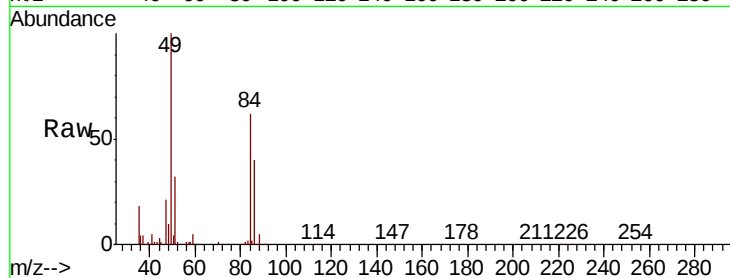




#20
Methvlene Chloride
Concen: 3.159 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.01 min
Lab File: VL036222.D
Acq: 13 Jan 2021 12:36

Instrument :
MSVOA_L
ClientSampleId :
0121-SS3DL

Tot Ion:	84	Resp:	175109
Ion	Ratio	Lower	Upper
84	100		
49	160.5	134.1	201.1
51	50.6	37.4	56.0
86	64.3	52.6	78.8



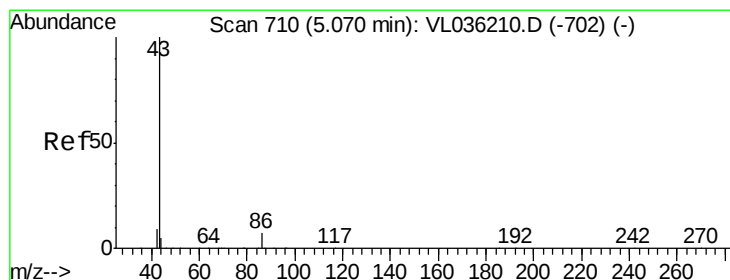
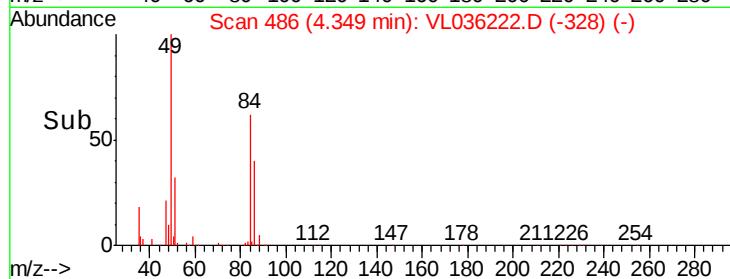
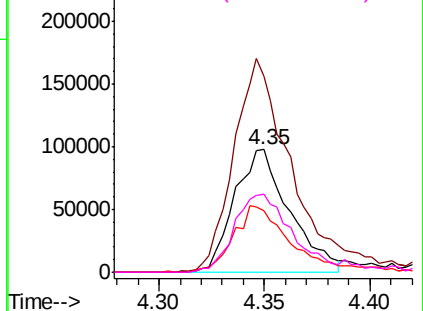
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

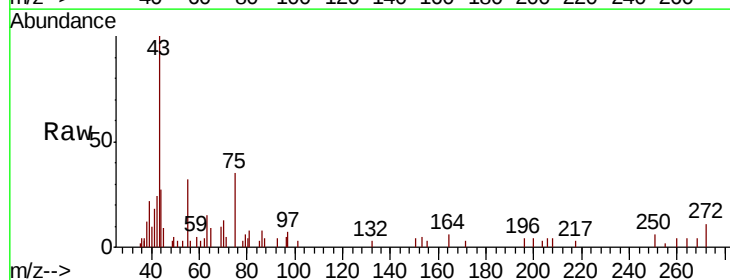
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#23
Vinyl Acetate
Concen: 0.031 ppbv
RT: 5.07 min Scan# 710
Delta R.T. -0.00 min
Lab File: VL036222.D
Acq: 13 Jan 2021 12:36

Tgt Ion:	43	Resp:	7136
Ion	Ratio	Lower	Upper
43	100		
86	14.9	4.9	7.3#
42	16.4	7.8	11.6#
44	17.7	3.7	5.5#



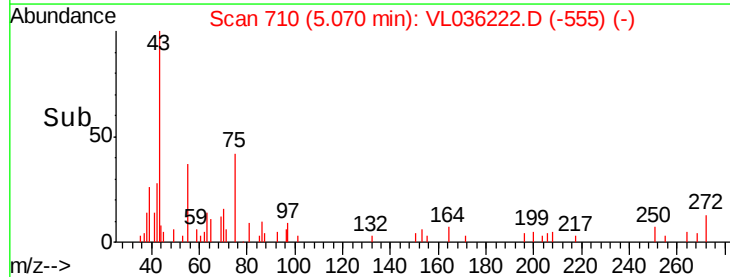
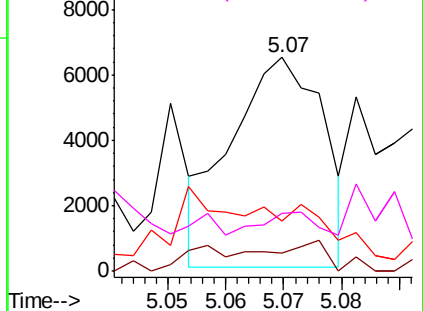
Abundance

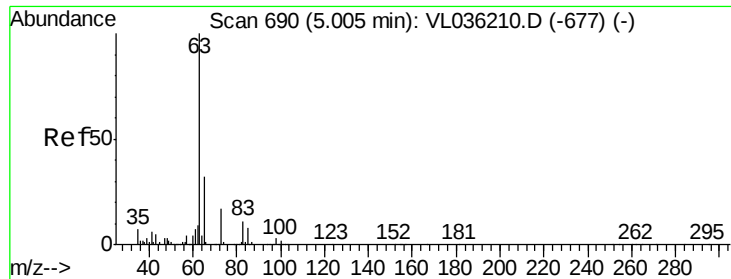
Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0





#24

1,1-Dichloroethane

Concen: 0.080 ppbv

RT: 5.02 min Scan# 694

Delta R.T. 0.01 min

Lab File: VL036222.D

Acq: 13 Jan 2021 12:36

Instrument :

MSVOA_L

ClientSampleId :

0121-SS3DL

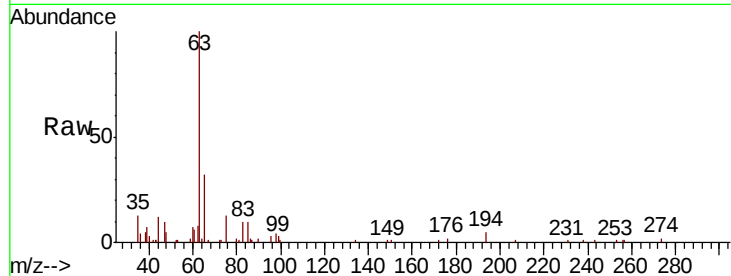
Tot Ion: 63 Resp: 12923

Ion Ratio Lower Upper

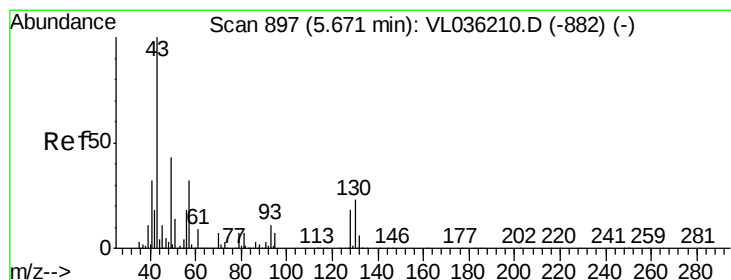
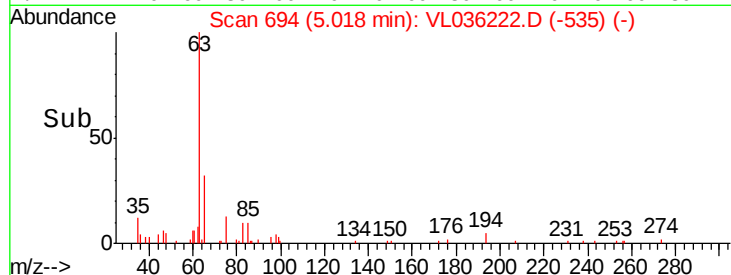
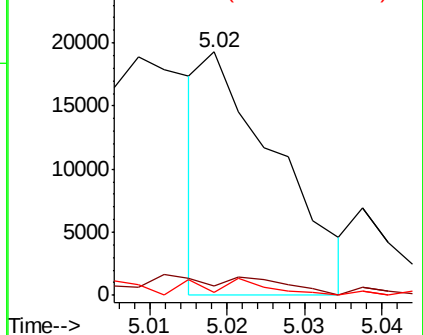
63 100

98 5.0 1.7 5.1

100 1.8 1.1 3.1



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0



#25

Ethyl Acetate

Concen: 0.481 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.02 min

Lab File: VL036222.D

Acq: 13 Jan 2021 12:36

Tgt Ion: 43 Resp: 177161

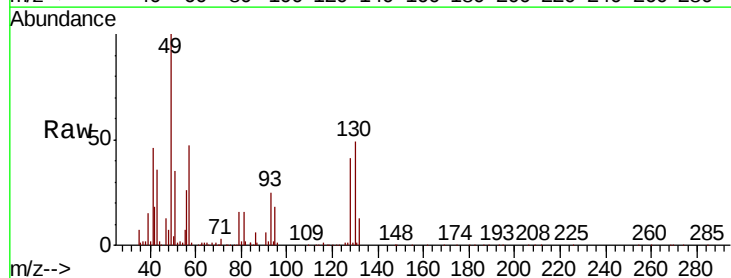
Ion Ratio Lower Upper

43 100

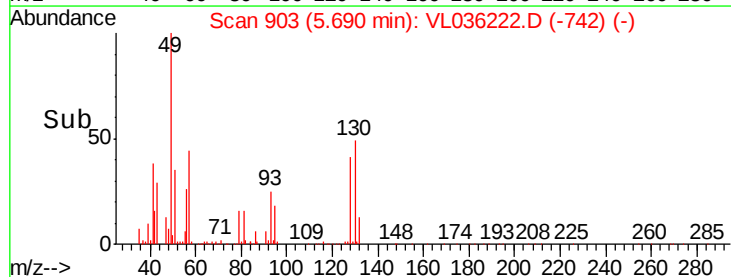
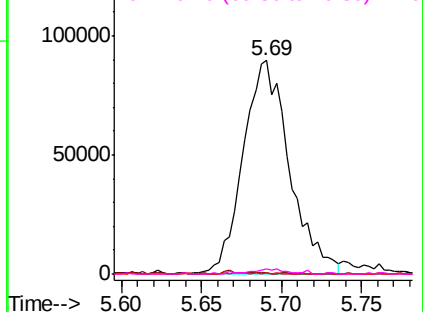
45 0.9 8.3 12.5#

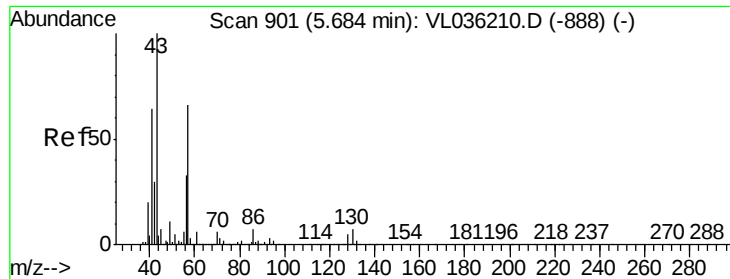
61 0.6 7.4 11.2#

70 2.1 5.5 8.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

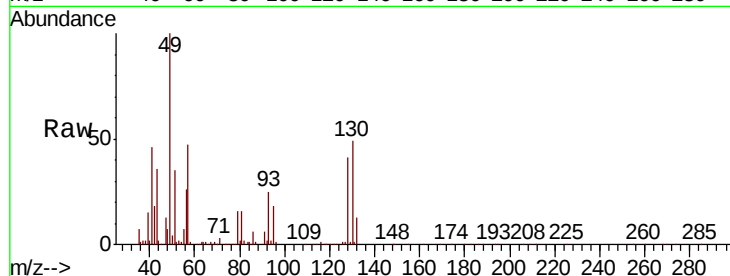




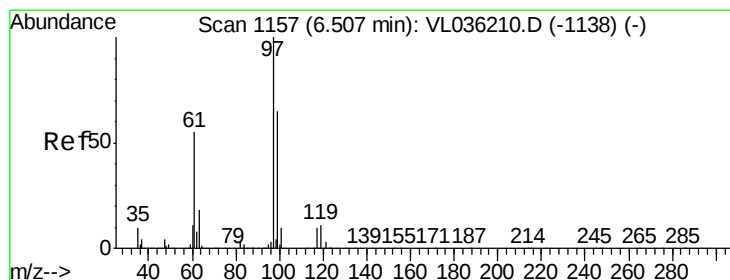
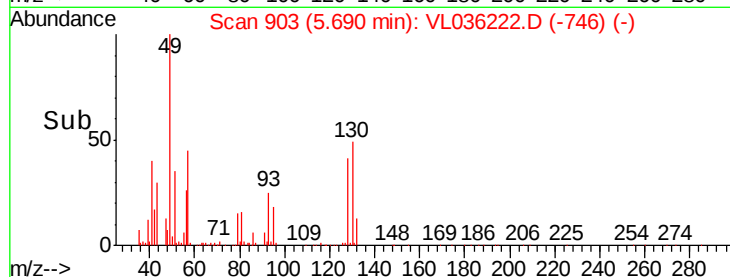
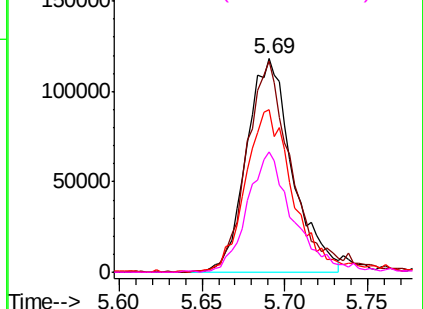
#26
Hexane
Concen: 1.480 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL036222.D
Acq: 13 Jan 2021 12:36

Instrument :
MSVOA_L
ClientSampleId :
0121-SS3DL

Tot Ion:	57	Resp:	228112
Ion	Ratio	Lower	Upper
57	100		
41	98.6	83.0	124.6
43	81.0	202.4	303.6#
56	57.1	43.4	65.0

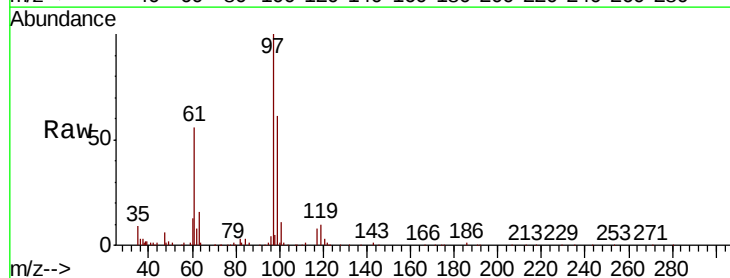


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

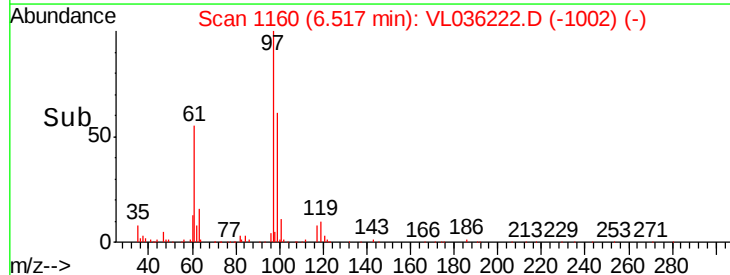
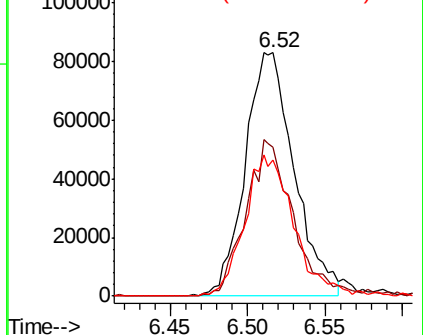


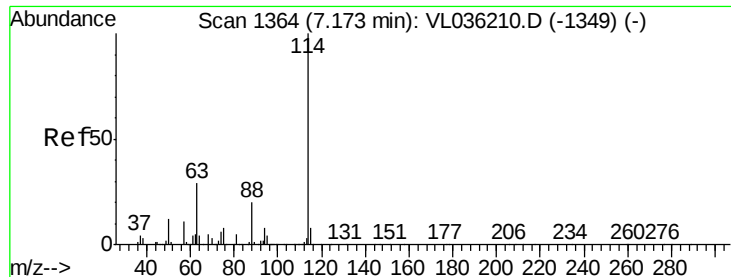
#32
1,1,1-Trichloroethane
Concen: 0.844 ppbv
RT: 6.52 min Scan# 1160
Delta R.T. 0.01 min
Lab File: VL036222.D
Acq: 13 Jan 2021 12:36

Tgt Ion:	97	Resp:	183674
Ion	Ratio	Lower	Upper
97	100		
99	63.0	52.0	78.0
61	58.4	43.6	65.4



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0

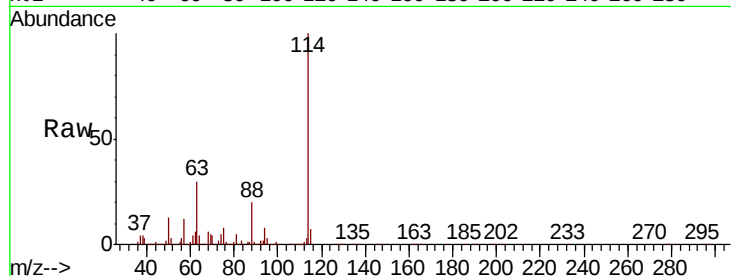




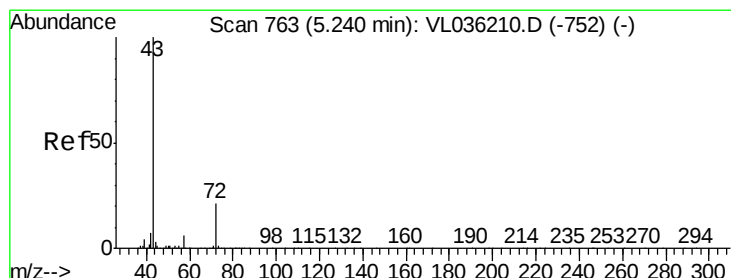
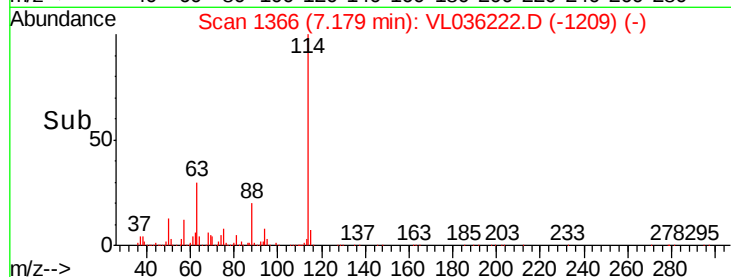
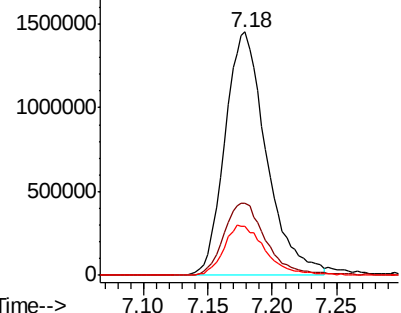
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. 0.01 min
 Lab File: VL036222.D
 Acq: 13 Jan 2021 12:36

Instrument :
 MSVOA_L
 ClientSampleId :
 0121-SS3DL

Tot Ion:114 Resp: 3253892
 Ion Ratio Lower Upper
 114 100
 63 30.8 24.7 37.1
 88 20.8 16.6 24.8

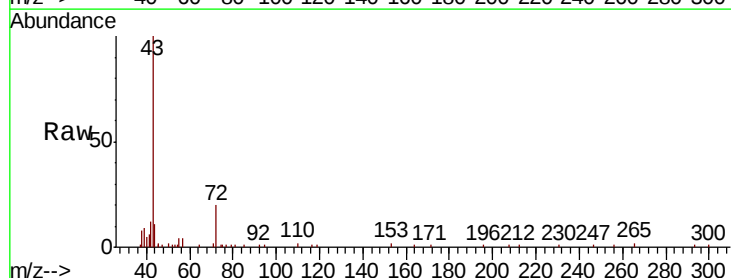


Abundance Ion 114.10 (113.80 to 114.80): VL0
 2000000 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

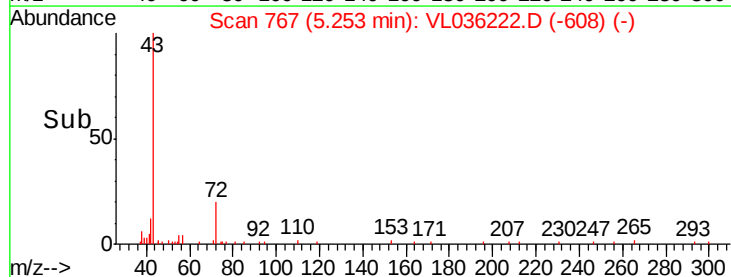
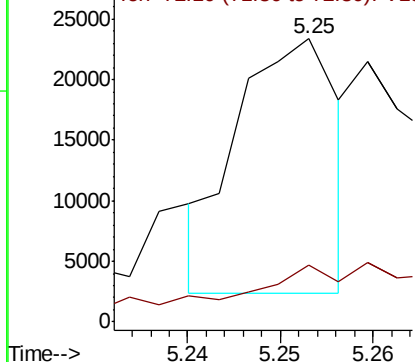


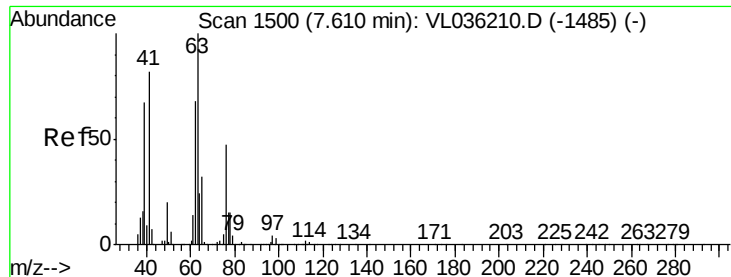
#34
 2-Butanone
 Concen: 0.077 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.01 min
 Lab File: VL036222.D
 Acq: 13 Jan 2021 12:36

Tgt Ion: 43 Resp: 15882
 Ion Ratio Lower Upper
 43 100
 72 0.0 16.1 24.1#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0

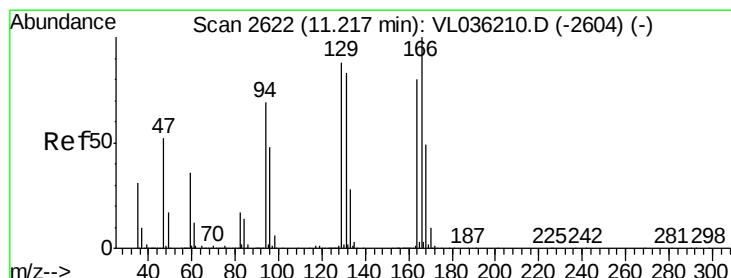
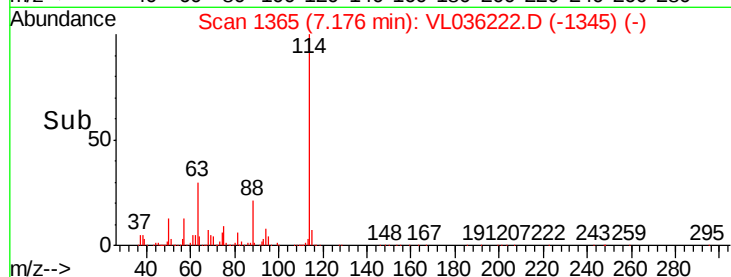
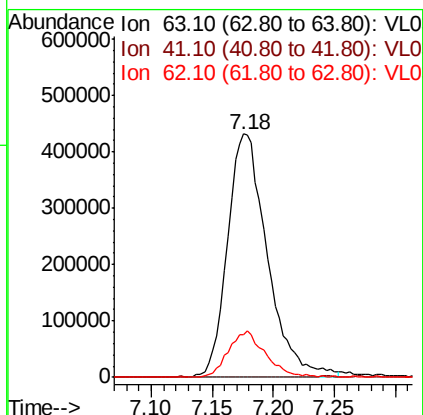
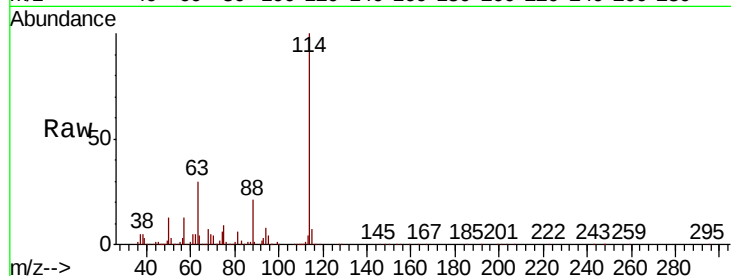




#39
 1,2-Dichloropropane
 Concen: 8.106 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.43 min
 Lab File: VL036222.D
 Acq: 13 Jan 2021 12:36

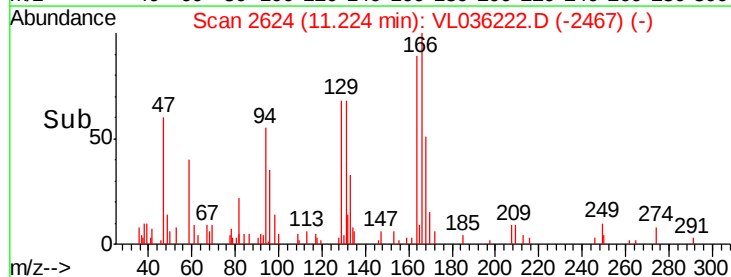
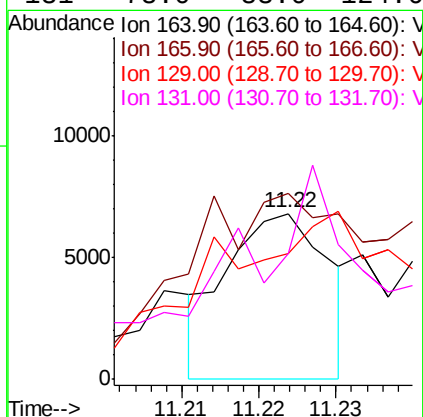
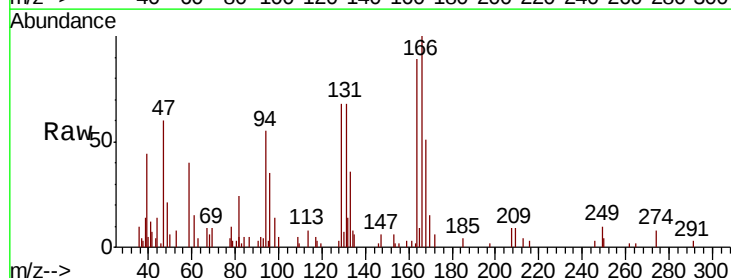
Instrument :
 MSVOA_L
 ClientSampleId :
 0121-SS3DL

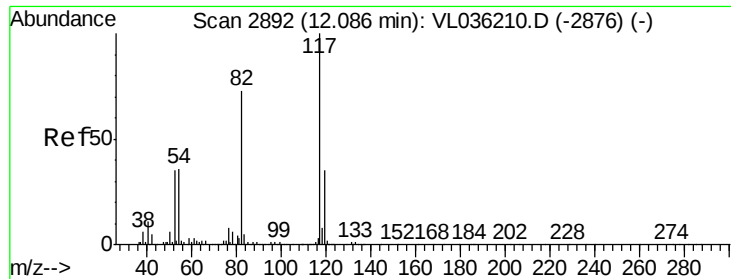
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	66.1	99.1#
62	17.3	54.8	82.2#



#52
 Tetrachloroethene
 Concen: 0.057 ppbv
 RT: 11.22 min Scan# 2624
 Delta R.T. 0.01 min
 Lab File: VL036222.D
 Acq: 13 Jan 2021 12:36

Tgt Ion	Ratio	Lower	Upper
164	100		
166	99.3	99.9	149.9#
129	67.0	88.2	132.4#
131	78.0	83.0	124.6#

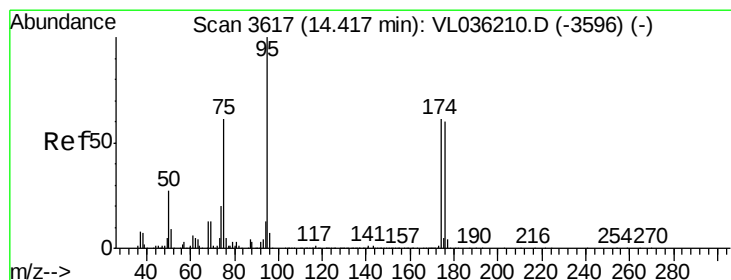
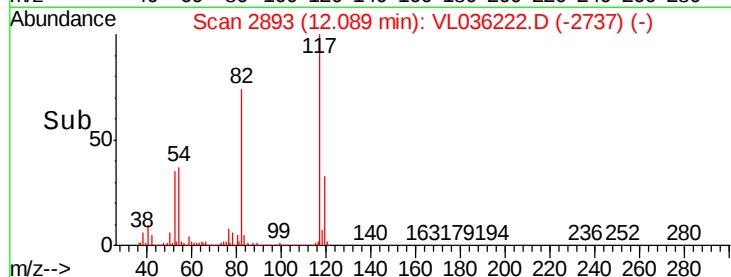
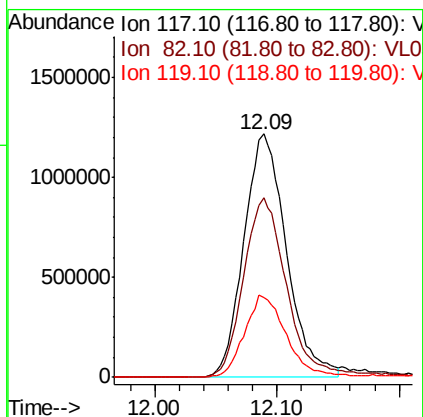
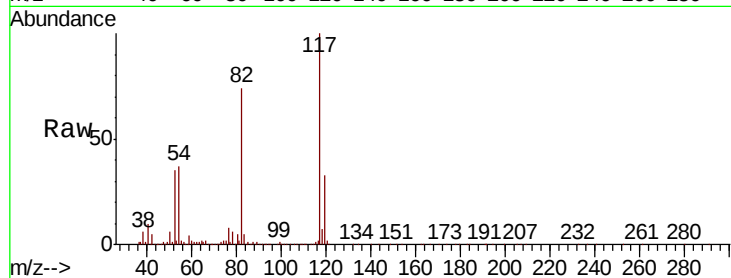




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2893
Delta R.T. 0.00 min
Lab File: VL036222.D
Acq: 13 Jan 2021 12:36

Instrument :
MSVOA_L
ClientSampleId :
0121-SS3DL

Tot Ion:117 Resp: 2939058
Ion Ratio Lower Upper
117 100
82 77.5 59.7 89.5
119 34.2 28.6 43.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.814 ppbv
RT: 14.42 min Scan# 3618
Delta R.T. 0.00 min
Lab File: VL036222.D
Acq: 13 Jan 2021 12:36

Tgt Ion: 95 Resp: 2387468
Ion Ratio Lower Upper
95 100
174 64.9 49.4 74.0
175 4.8 3.8 5.8

