

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036521.D
 Acq On : 26 Mar 2021 19:52
 Operator : SY/AP
 Sample : M1760-15DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 27 03:30:44 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

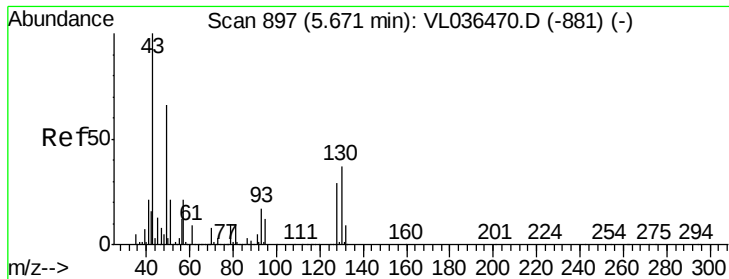
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1384875	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3124732	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2847905	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2154831	9.49	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.96	51	102161	0.395	ppbv #	61
4) Chloromethane	3.15	50	55186	0.604	ppbv #	84
7) Chloroethane	3.57	64	1187	0.037	ppbv #	21
9) Propene	3.02	41	18321	0.222	ppbv	99
13) Ethanol	3.61	45	421361	42.896	ppbv	96
15) Acetone	3.86	43	195873	1.437	ppbv #	75
19) Isopropyl Alcohol	3.99	45	95713	1.277	ppbv #	97
20) Methylene Chloride	4.35	84	19671	0.308	ppbv #	81
23) Vinyl Acetate	5.08	43	39691	0.170	ppbv #	91
25) Ethyl Acetate	5.69	43	94727	0.292	ppbv #	91
26) Hexane	5.70	57	29038	0.193	ppbv #	12
29) Chloroform	5.76	83	13069	0.054	ppbv	84
31) cis-1,2-Dichloroethene	5.56	61	8339	0.057	ppbv	93
34) 2-Butanone	5.26	43	28017	0.184	ppbv #	89
38) Trichloroethene	7.84	130	55173	0.492	ppbv	97
39) 1,2-Dichloropropane	7.19	63	873188	7.469	ppbv #	23
53) Toluene	9.82	91	16900	0.055	ppbv #	76

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.00 min

Lab File: VL036521.D

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ClientSampleId :

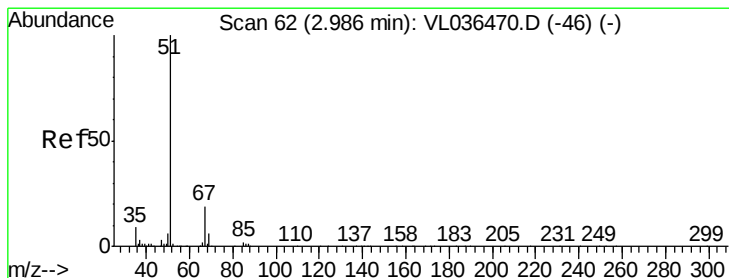
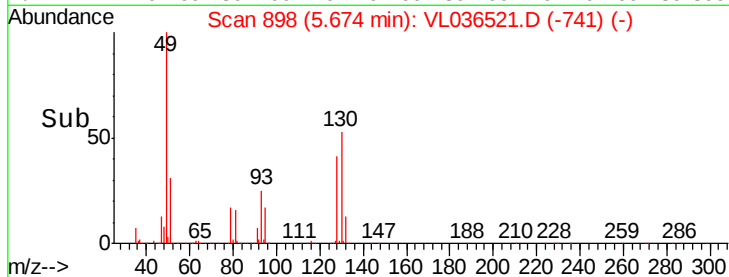
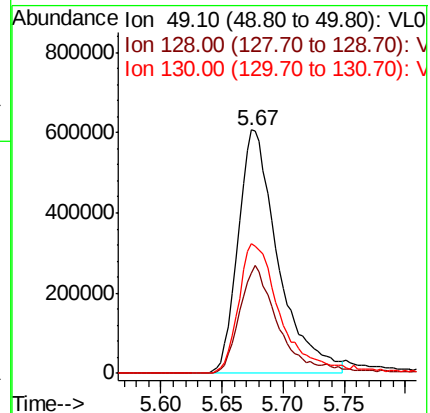
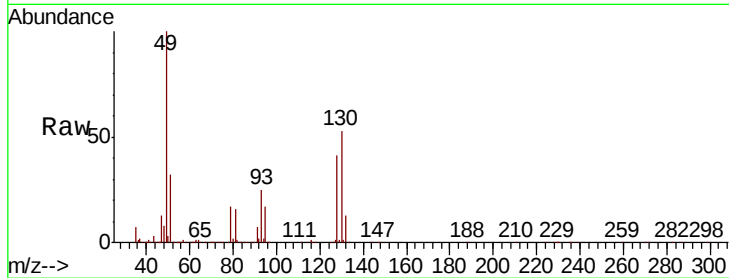
Tot Ion: 49 Resp: 1384875

Ion Ratio Lower Upper

49 100

128 44.4 23.5 70.6

130 57.8 29.1 87.4



#3

Chlorodifluoromethane

Concen: 0.395 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.02 min

Lab File: VL036521.D

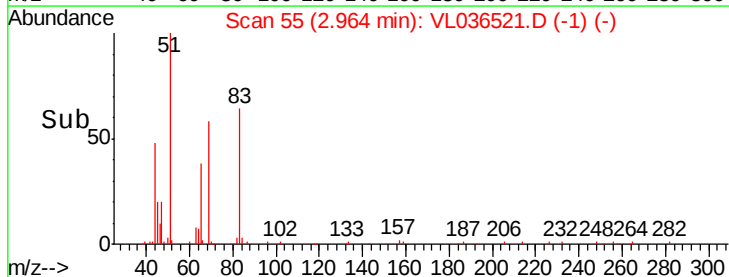
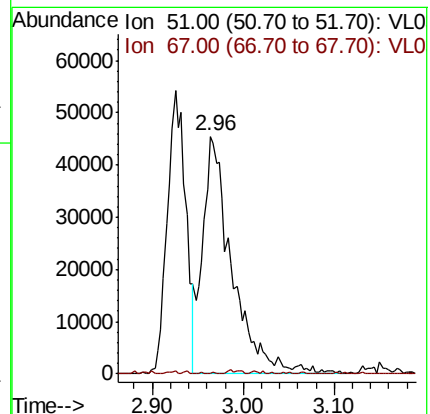
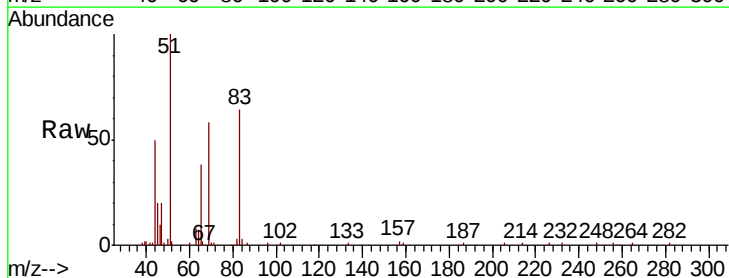
Acq: 26 Mar 2021 19:52

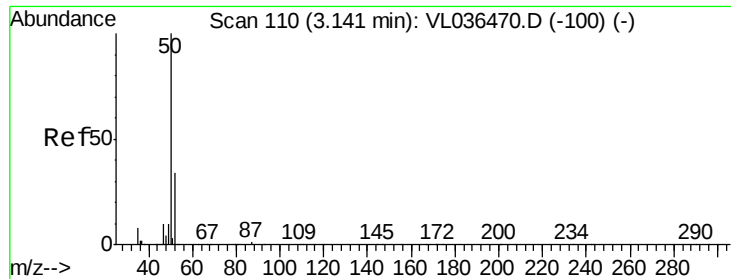
Tgt Ion: 51 Resp: 102161

Ion Ratio Lower Upper

51 100

67 0.9 14.7 22.1#





#4

Chloromethane

Concen: 0.604 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.01 min

Lab File: VL036521.D

Acq: 26 Mar 2021 19:52

Instrument :

MSVOA_L

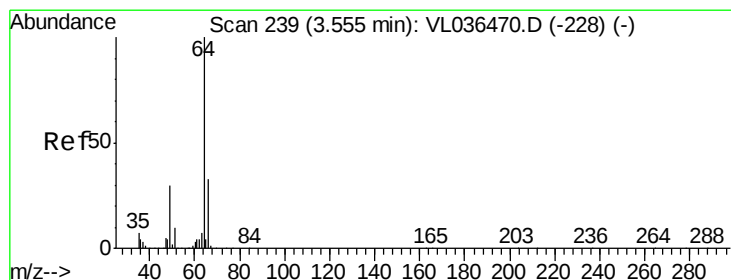
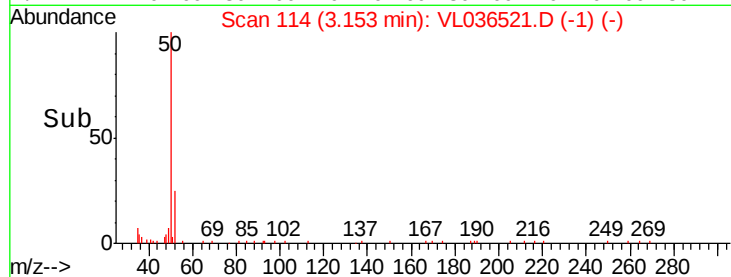
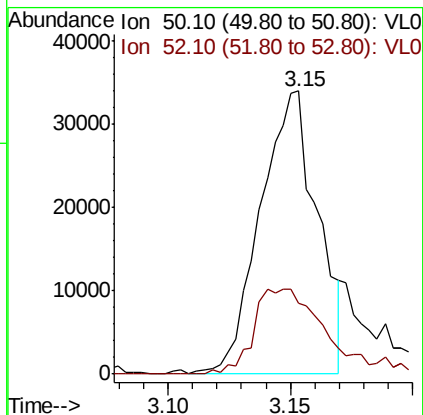
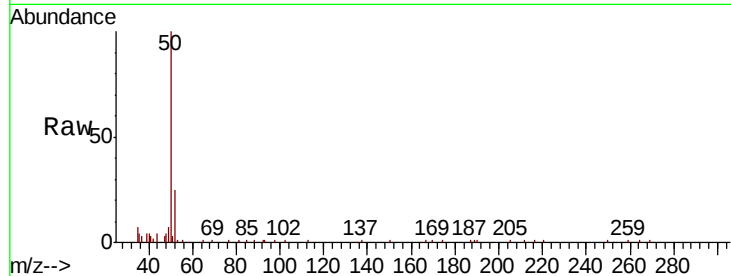
ClientSampleId :

Tot Ion: 50 Resp: 55186

Ion Ratio Lower Upper

50 100

52 24.9 27.0 40.6#



#7

Chloroethane

Concen: 0.037 ppbv

RT: 3.57 min Scan# 243

Delta R.T. 0.01 min

Lab File: VL036521.D

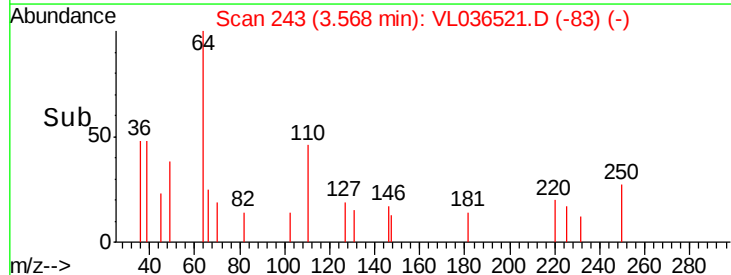
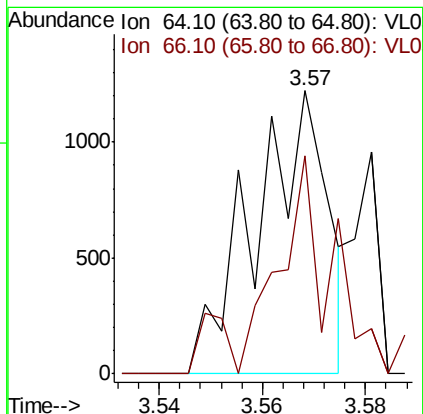
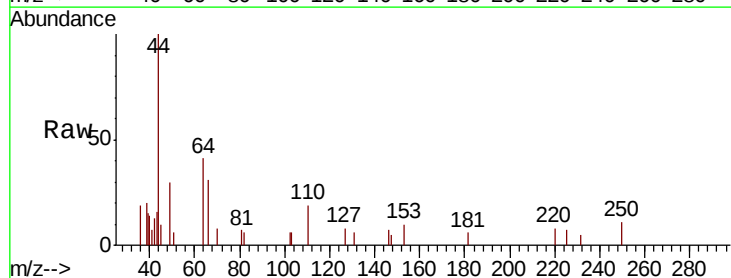
Acq: 26 Mar 2021 19:52

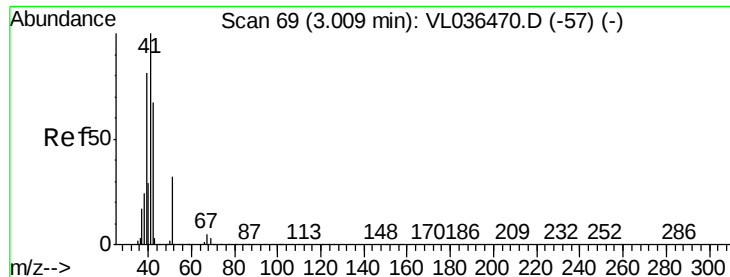
Tgt Ion: 64 Resp: 1187

Ion Ratio Lower Upper

64 100

66 77.0 26.2 39.2#





#9

Propene

Concen: 0.222 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.02 min

Lab File: VL036521.D

Acq: 26 Mar 2021 19:52

Instrument :

MSVOA_L

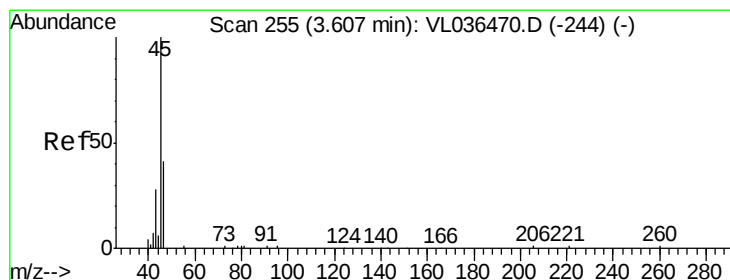
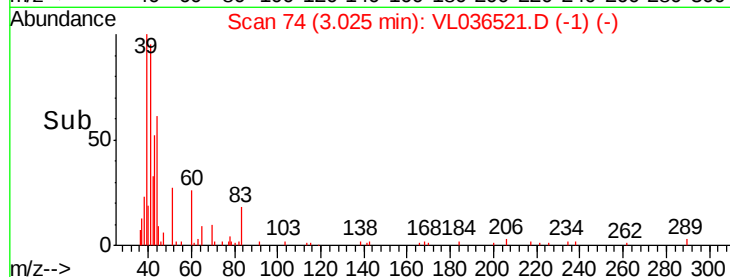
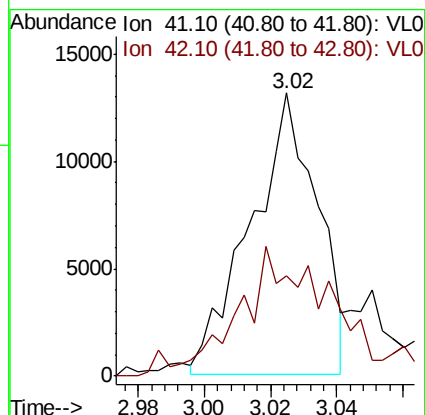
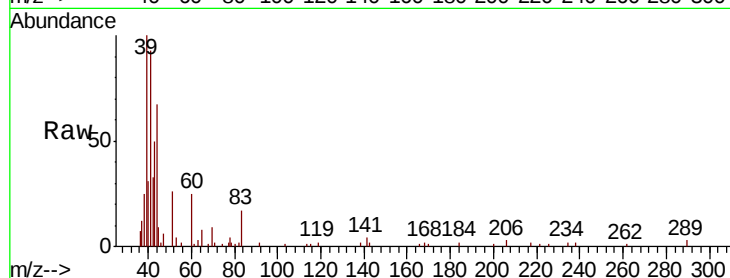
ClientSampleId :

Tot Ion: 41 Resp: 18321

Ion Ratio Lower Upper

41 100

42 72.4 57.0 85.4



#13

Ethanol

Concen: 42.896 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL036521.D

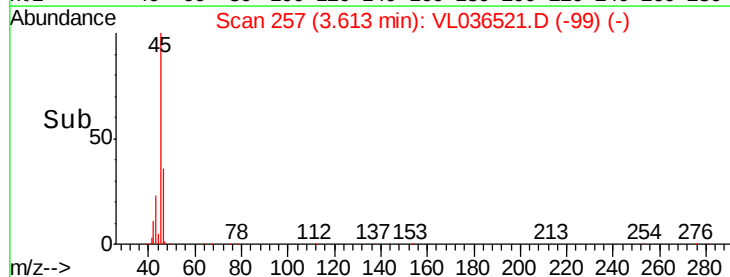
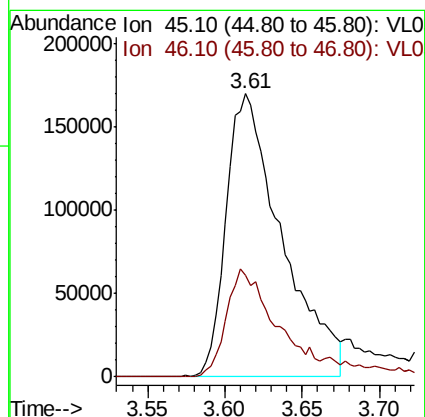
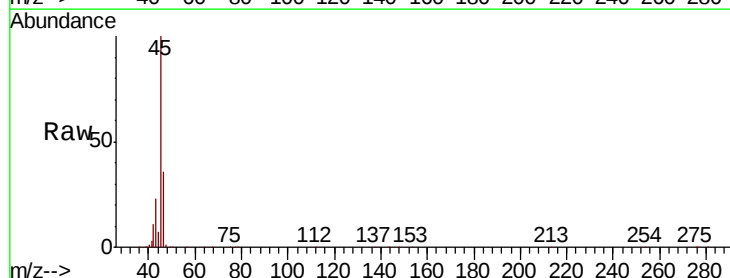
Acq: 26 Mar 2021 19:52

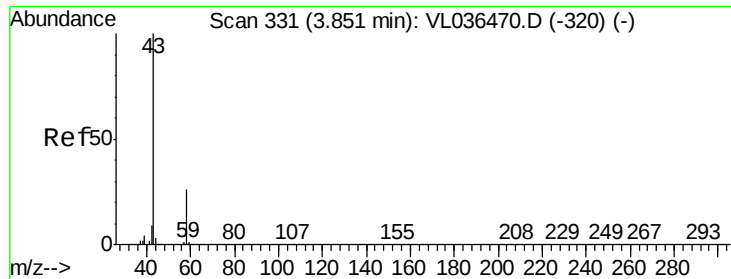
Tgt Ion: 45 Resp: 421361

Ion Ratio Lower Upper

45 100

46 39.2 16.6 66.2

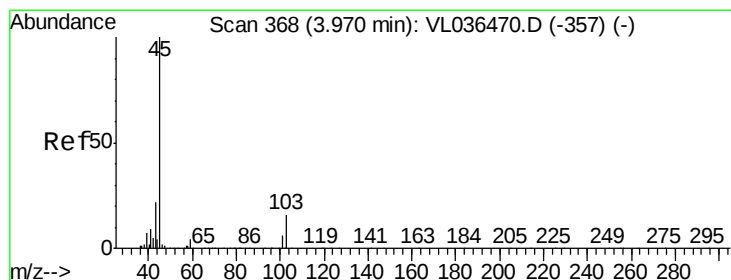
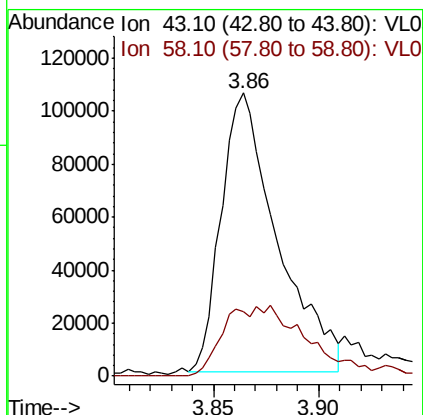
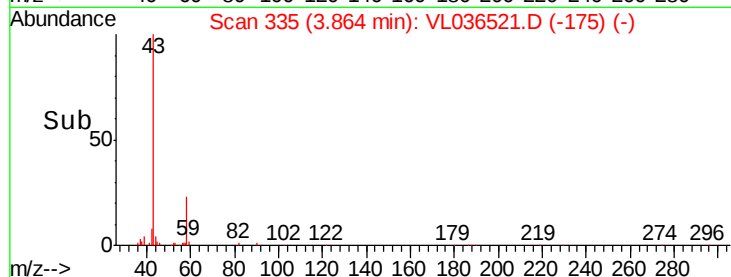
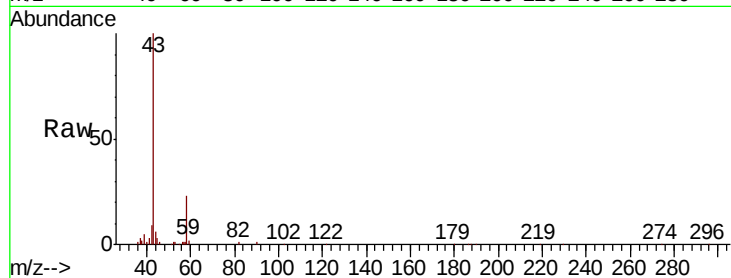




#15
Acetone
Concen: 1.437 ppbv
RT: 3.86 min Scan# 335
Delta R.T. 0.01 min
Lab File: VL036521.D
Acq: 26 Mar 2021 19:52

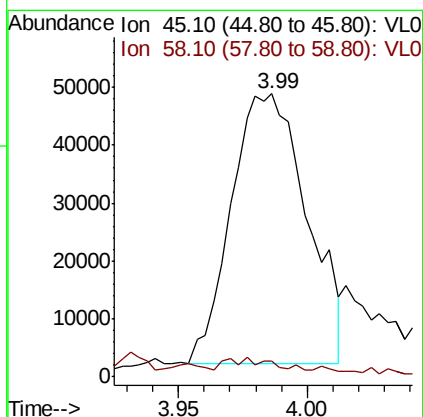
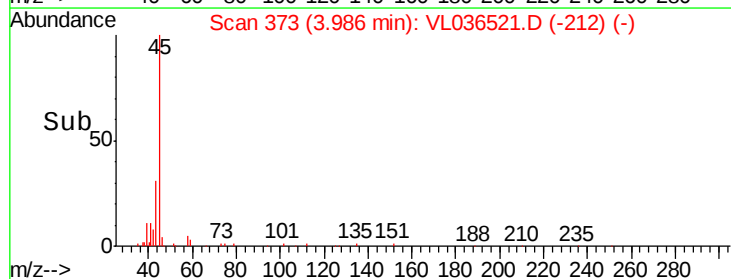
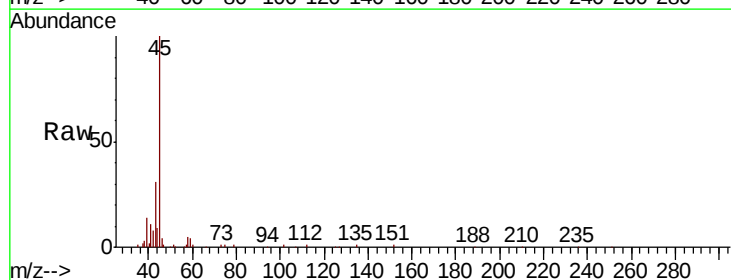
Instrument :
MSVOA_L
ClientSampleId :

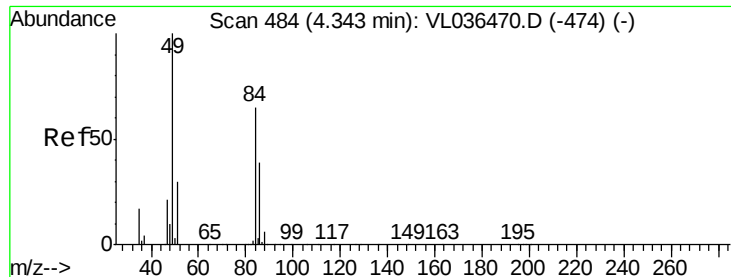
Tot Ion: 43 Resp: 195873
Ion Ratio Lower Upper
43 100
58 39.4 21.2 31.8#



#19
Isopropyl Alcohol
Concen: 1.277 ppbv
RT: 3.99 min Scan# 373
Delta R.T. 0.02 min
Lab File: VL036521.D
Acq: 26 Mar 2021 19:52

Tgt Ion: 45 Resp: 95713
Ion Ratio Lower Upper
45 100
58 4.5 2.9 4.3#

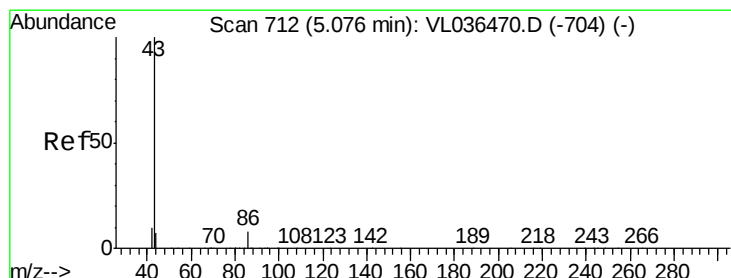
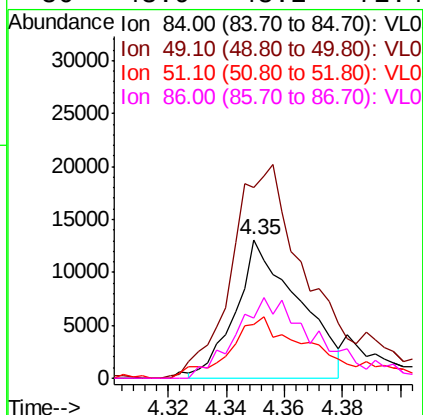
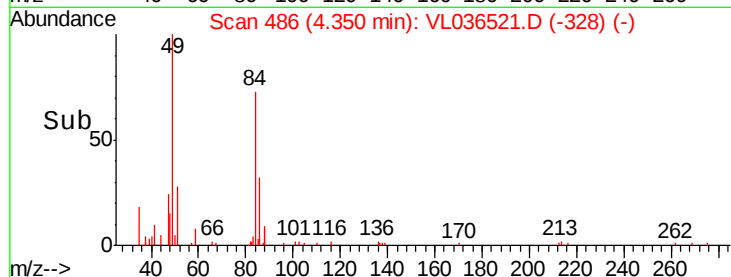
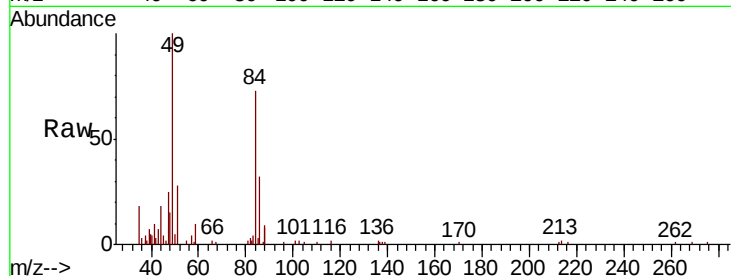




#20
Methvlene Chloride
Concen: 0.308 ppbv
RT: 4.35 min Scan# 486
Delta R.T. 0.01 min
Lab File: VL036521.D
Acq: 26 Mar 2021 19:52

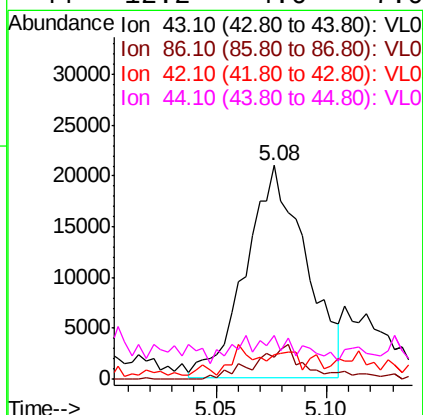
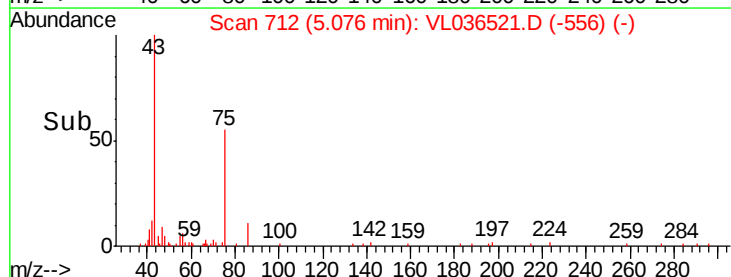
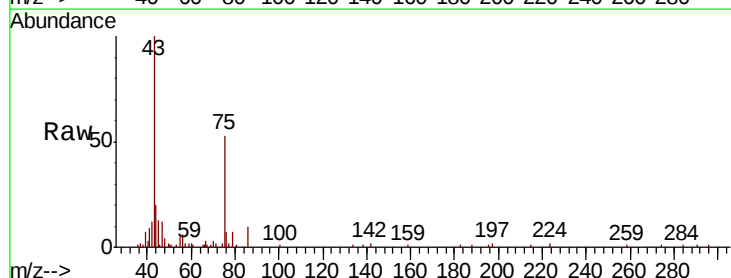
Instrument :
MSVOA_L
ClientSampleId :

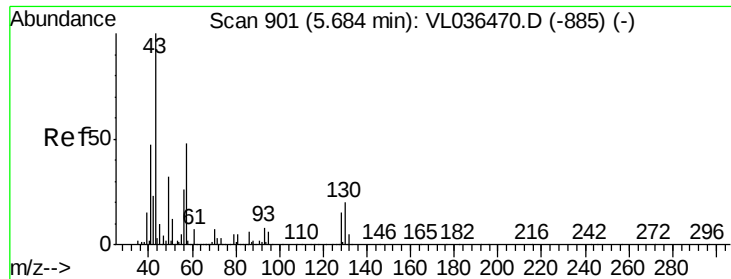
Tot Ion: 84 Resp: 19671
Ion Ratio Lower Upper
84 100
49 130.4 122.9 184.3
51 31.9 36.9 55.3#
86 43.9 48.2 72.4#



#23
Vinyl Acetate
Concen: 0.170 ppbv
RT: 5.08 min Scan# 712
Delta R.T. 0.00 min
Lab File: VL036521.D
Acq: 26 Mar 2021 19:52

Tgt Ion: 43 Resp: 39691
Ion Ratio Lower Upper
43 100
86 10.7 5.4 8.0#
42 10.1 8.5 12.7
44 12.2 4.6 7.0#

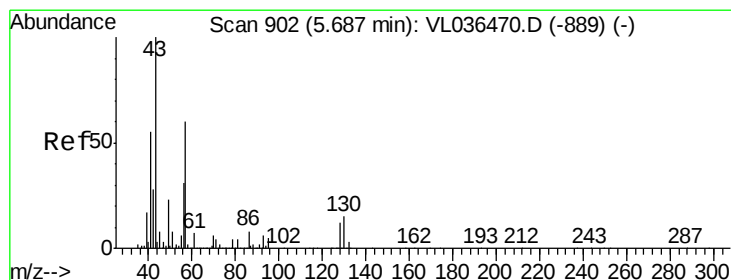
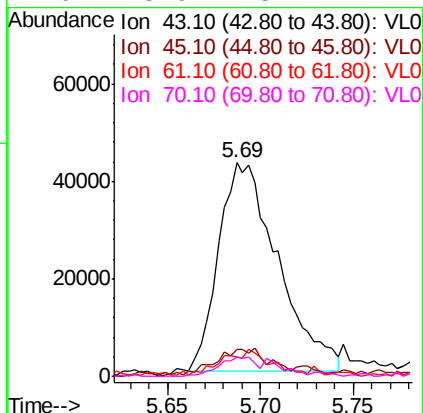
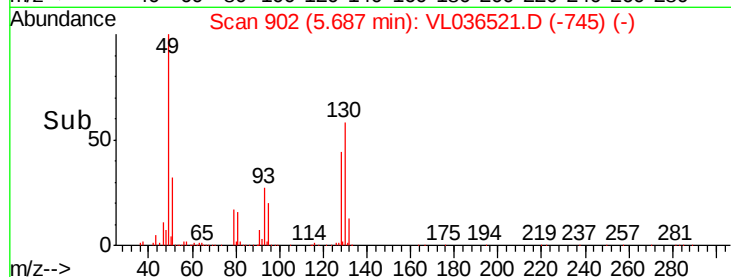
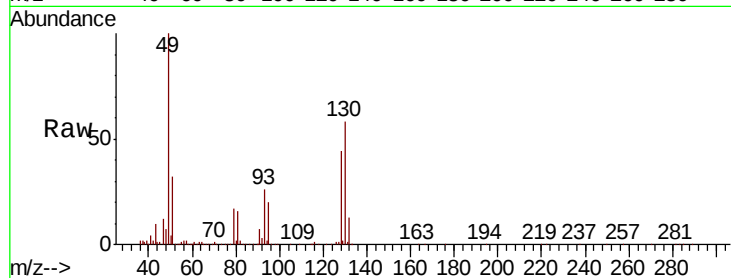




#25
Ethyl Acetate
Concen: 0.292 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.00 min
Lab File: VL036521.D
Acq: 26 Mar 2021 19:52

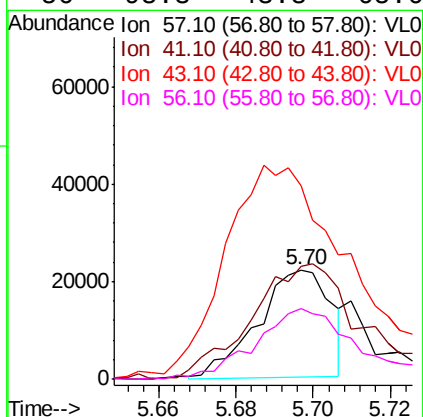
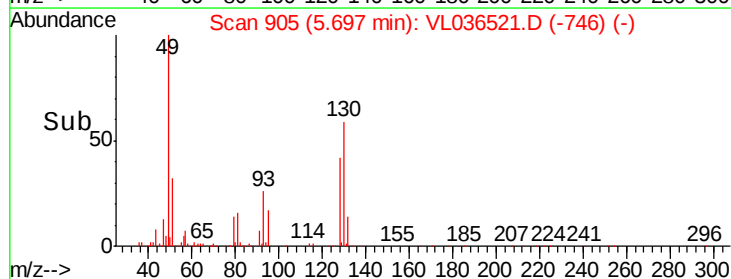
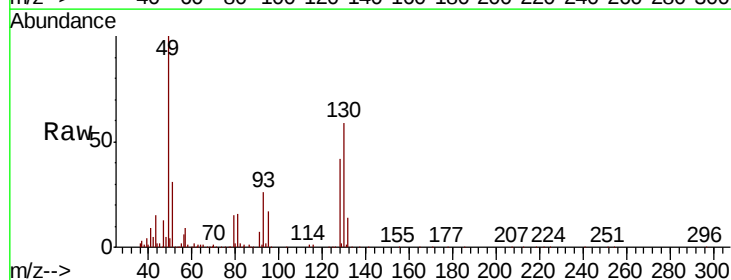
Instrument :
MSVOA_L
ClientSampleId :

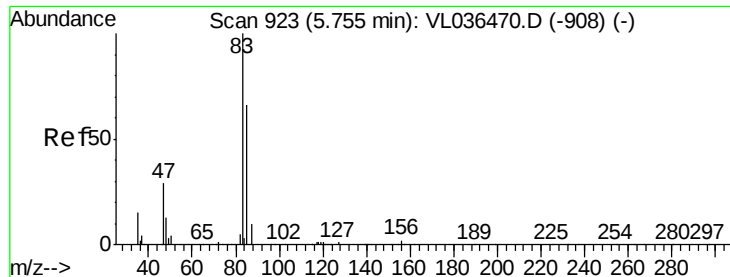
Tot Ion:	43	Resp:	94727
Ion	Ratio	Lower	Upper
43	100		
45	12.9	7.9	11.9#
61	13.1	7.4	11.2#
70	8.9	5.1	7.7#



#26
Hexane
Concen: 0.193 ppbv
RT: 5.70 min Scan# 905
Delta R.T. 0.01 min
Lab File: VL036521.D
Acq: 26 Mar 2021 19:52

Tgt Ion:	57	Resp:	29038
Ion	Ratio	Lower	Upper
57	100		
41	172.4	77.2	115.8#
43	377.3	173.8	260.6#
56	98.3	43.8	65.6#





#29

Chloroform

Concen: 0.054 ppbv

RT: 5.76 min Scan# 924

Delta R.T. 0.00 min

Lab File: VL036521.D

Acq: 26 Mar 2021 19:52

Instrument :

MSVOA_L

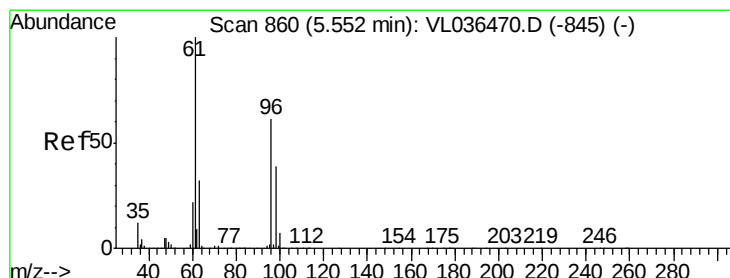
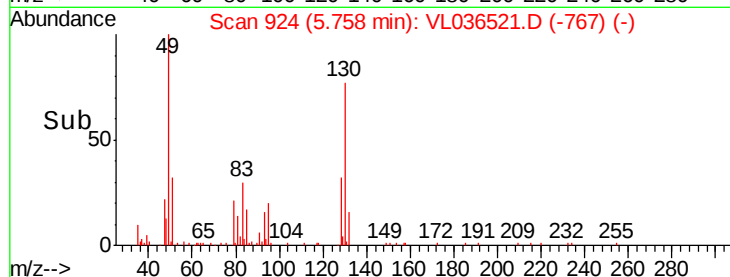
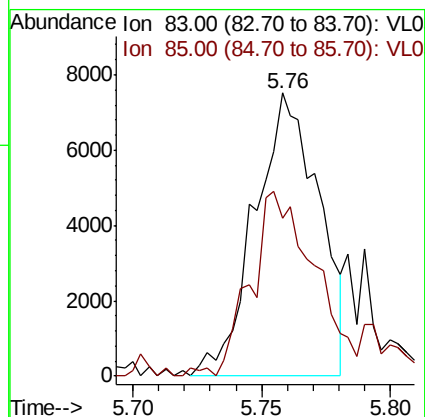
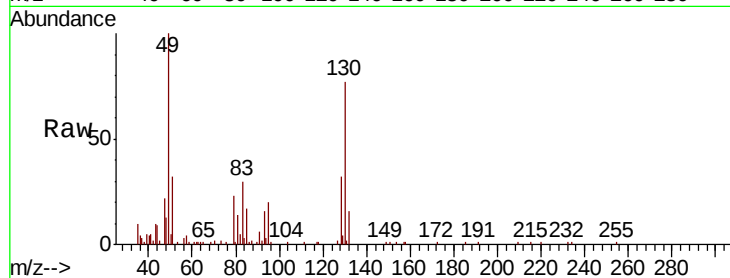
ClientSampleId :

Tot Ion: 83 Resp: 13069

Ion Ratio Lower Upper

83 100

85 52.9 52.6 78.8



#31

cis-1,2-Dichloroethene

Concen: 0.057 ppbv

RT: 5.56 min Scan# 861

Delta R.T. 0.00 min

Lab File: VL036521.D

Acq: 26 Mar 2021 19:52

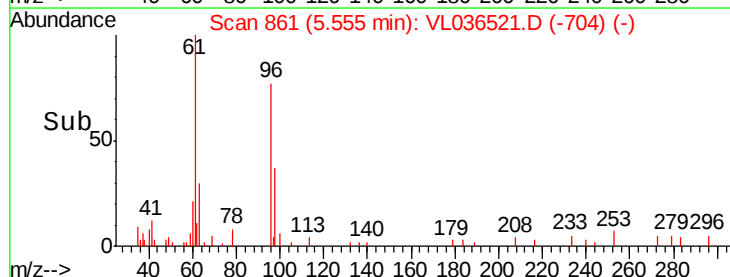
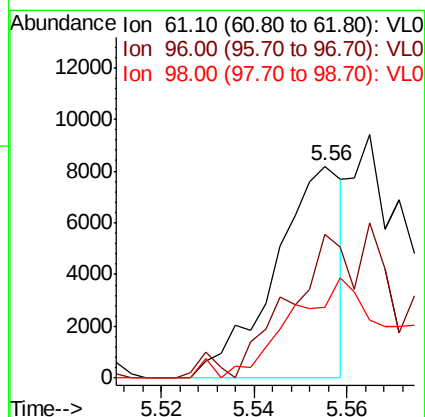
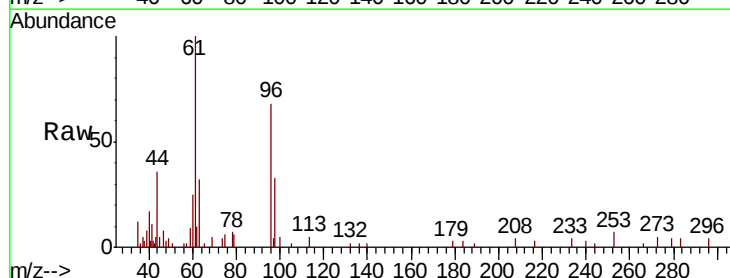
Tgt Ion: 61 Resp: 8339

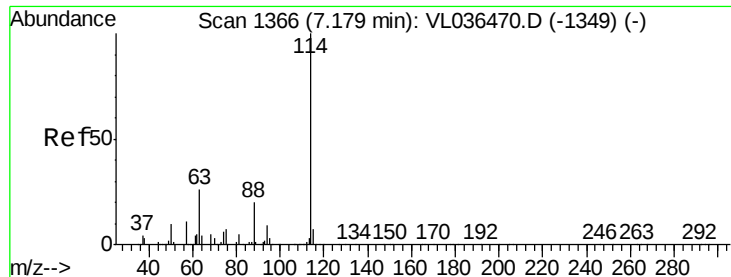
Ion Ratio Lower Upper

61 100

96 65.3 48.7 73.1

98 33.1 31.4 47.0

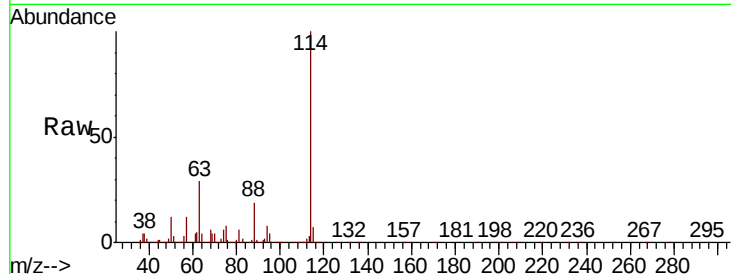




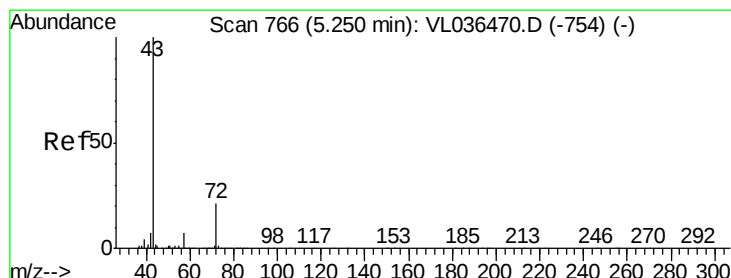
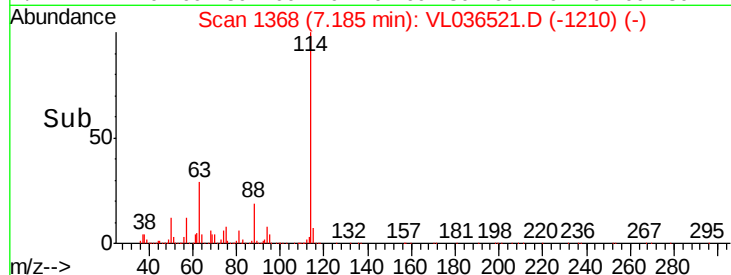
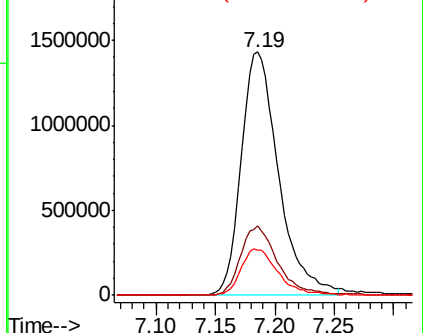
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.01 min
 Lab File: VL036521.D
 Acq: 26 Mar 2021 19:52

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 3124732
 Ion Ratio Lower Upper
 114 100
 63 28.7 22.4 33.6
 88 19.2 15.4 23.0

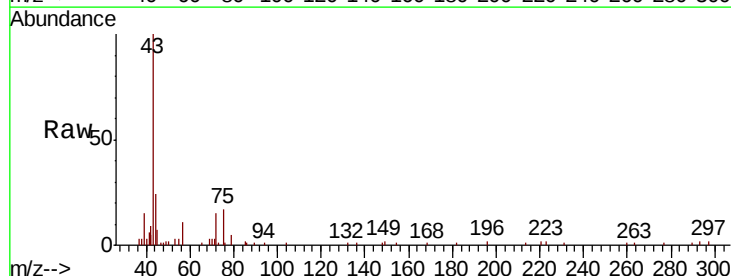


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

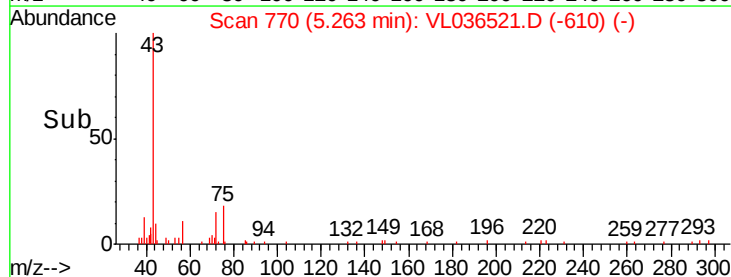
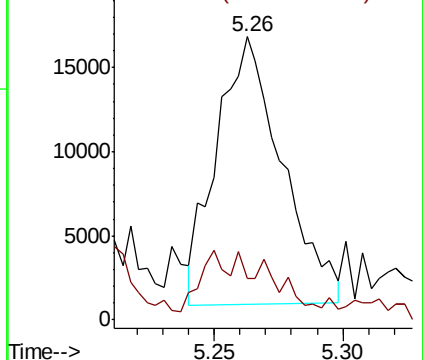


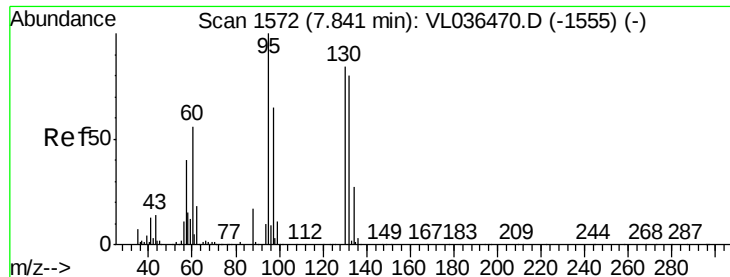
#34
 2-Butanone
 Concen: 0.184 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. 0.01 min
 Lab File: VL036521.D
 Acq: 26 Mar 2021 19:52

Tgt Ion: 43 Resp: 28017
 Ion Ratio Lower Upper
 43 100
 72 26.3 17.0 25.6#



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

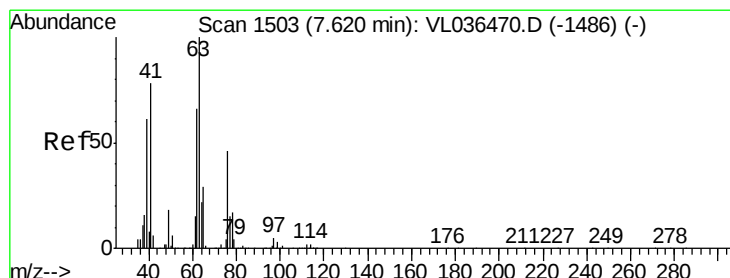
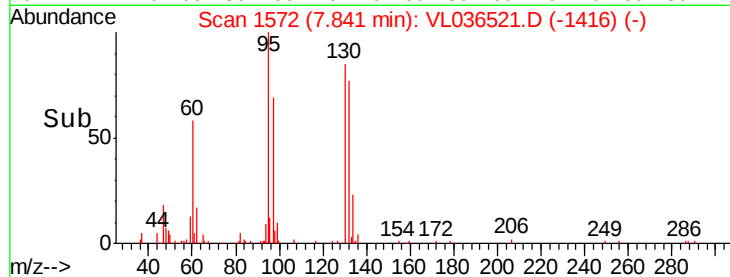
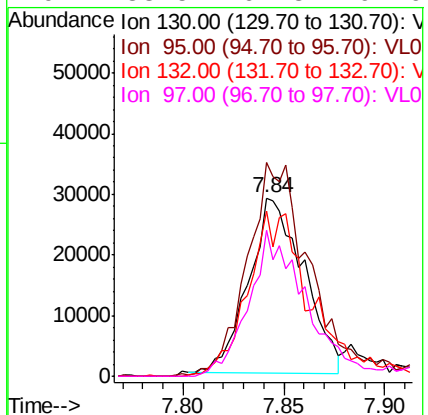
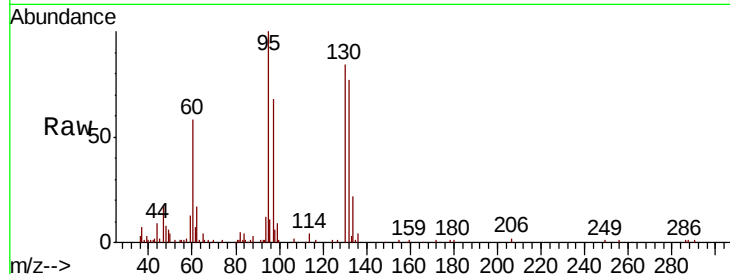




#38
 Trichloroethene
 Concen: 0.492 ppbv
 RT: 7.84 min Scan# 1572
 Delta R.T. 0.00 min
 Lab File: VL036521.D
 Acq: 26 Mar 2021 19:52

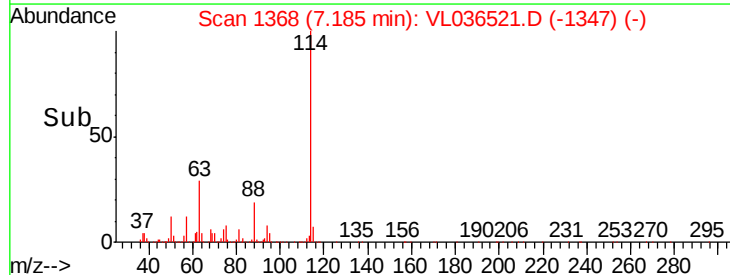
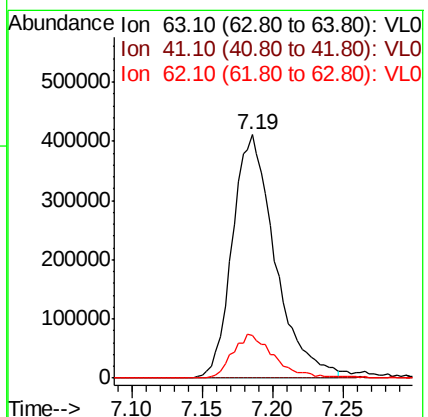
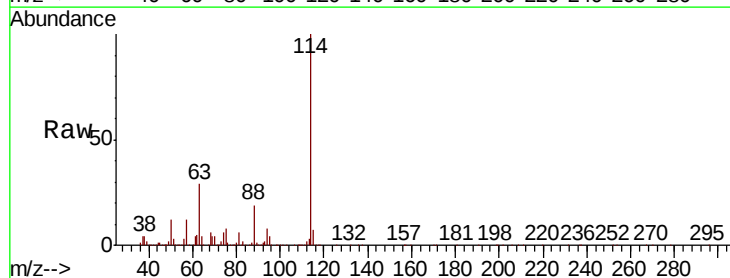
Instrument :
 MSVOA_L
 ClientSampled :

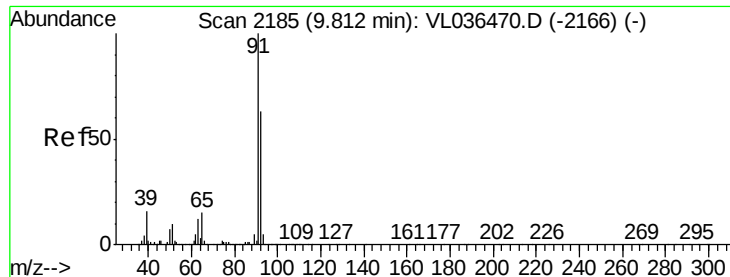
Tot Ion:130 Resp: 55173
 Ion Ratio Lower Upper
 130 100
 95 121.2 95.7 143.5
 132 93.7 76.2 114.4
 97 83.5 61.8 92.6



#39
 1,2-Dichloropropane
 Concen: 7.469 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.43 min
 Lab File: VL036521.D
 Acq: 26 Mar 2021 19:52

Tgt Ion: 63 Resp: 873188
 Ion Ratio Lower Upper
 63 100
 41 0.0 62.4 93.6#
 62 17.2 52.8 79.2#





#53

Toluene

Concen: 0.055 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VL036521.D

Acq: 26 Mar 2021 19:52

Instrument :

MSVOA_L

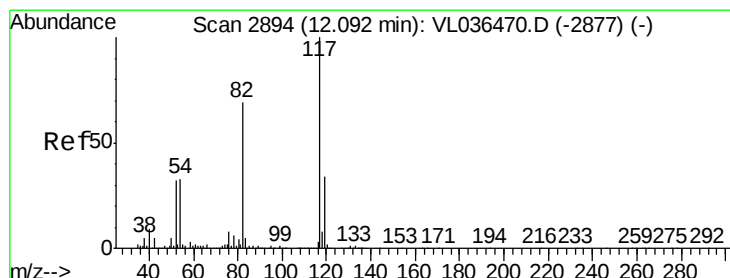
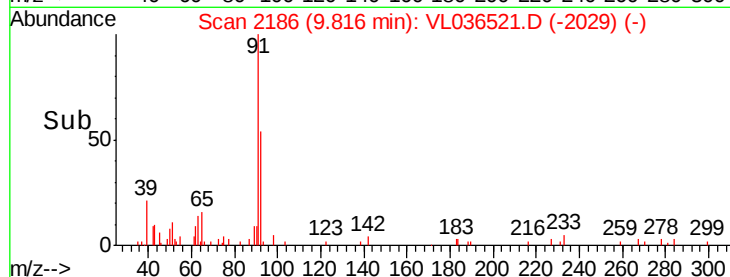
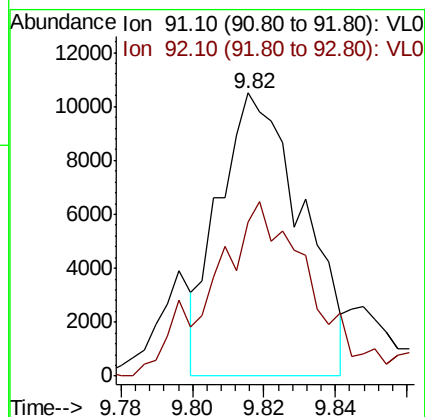
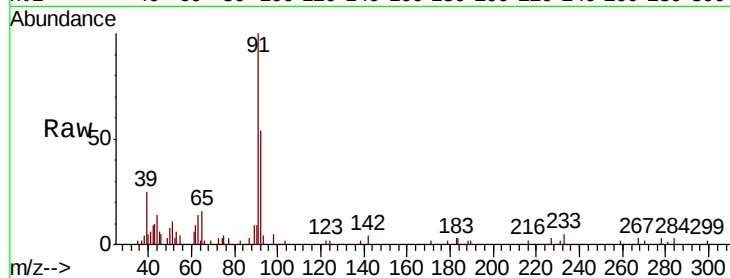
ClientSampleId :

Tot Ion: 91 Resp: 16900

Ion Ratio Lower Upper

91 100

92 79.1 48.8 73.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.01 min

Lab File: VL036521.D

Acq: 26 Mar 2021 19:52

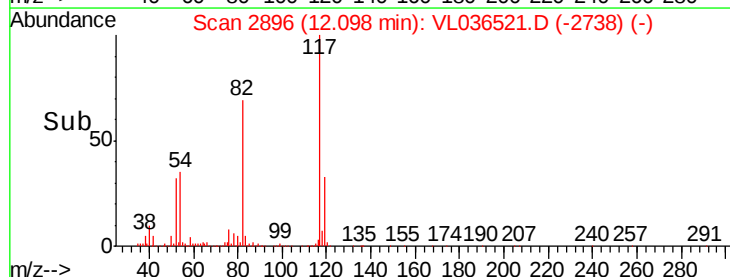
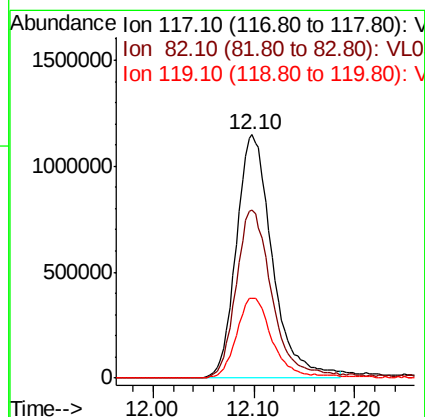
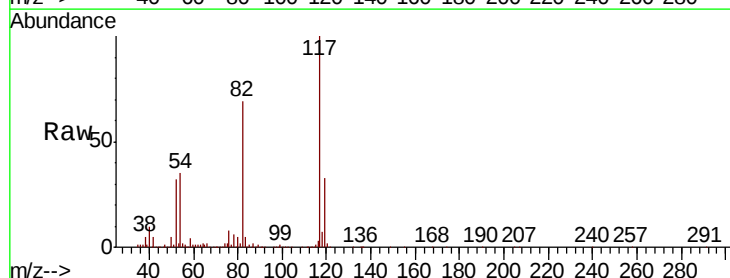
Tgt Ion: 117 Resp: 2847905

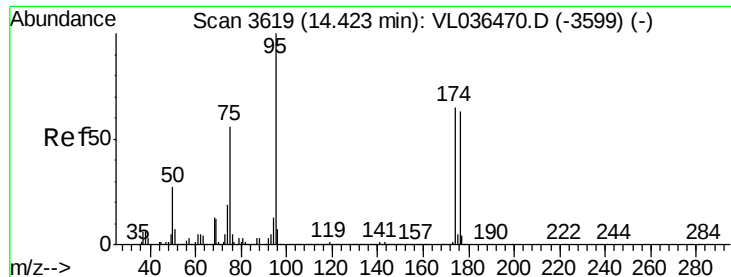
Ion Ratio Lower Upper

117 100

82 71.5 57.4 86.0

119 33.4 47.4 71.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.493 ppbv

RT: 14.43 min Scan# 3621

Delta R.T. 0.01 min

Lab File: VL036521.D

Acq: 26 Mar 2021 19:52

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2154831

Ion Ratio Lower Upper

95 100

174 66.6 51.0 76.6

175 5.0 3.9 5.9

