

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036512.D
 Acq On : 26 Mar 2021 13:33
 Operator : SY/AP
 Sample : M1760-03 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 27 03:28:38 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	5.69	49	1505845	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.20	114	3423548	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.12	117	3009476	10.00	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	2347830	9.79	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

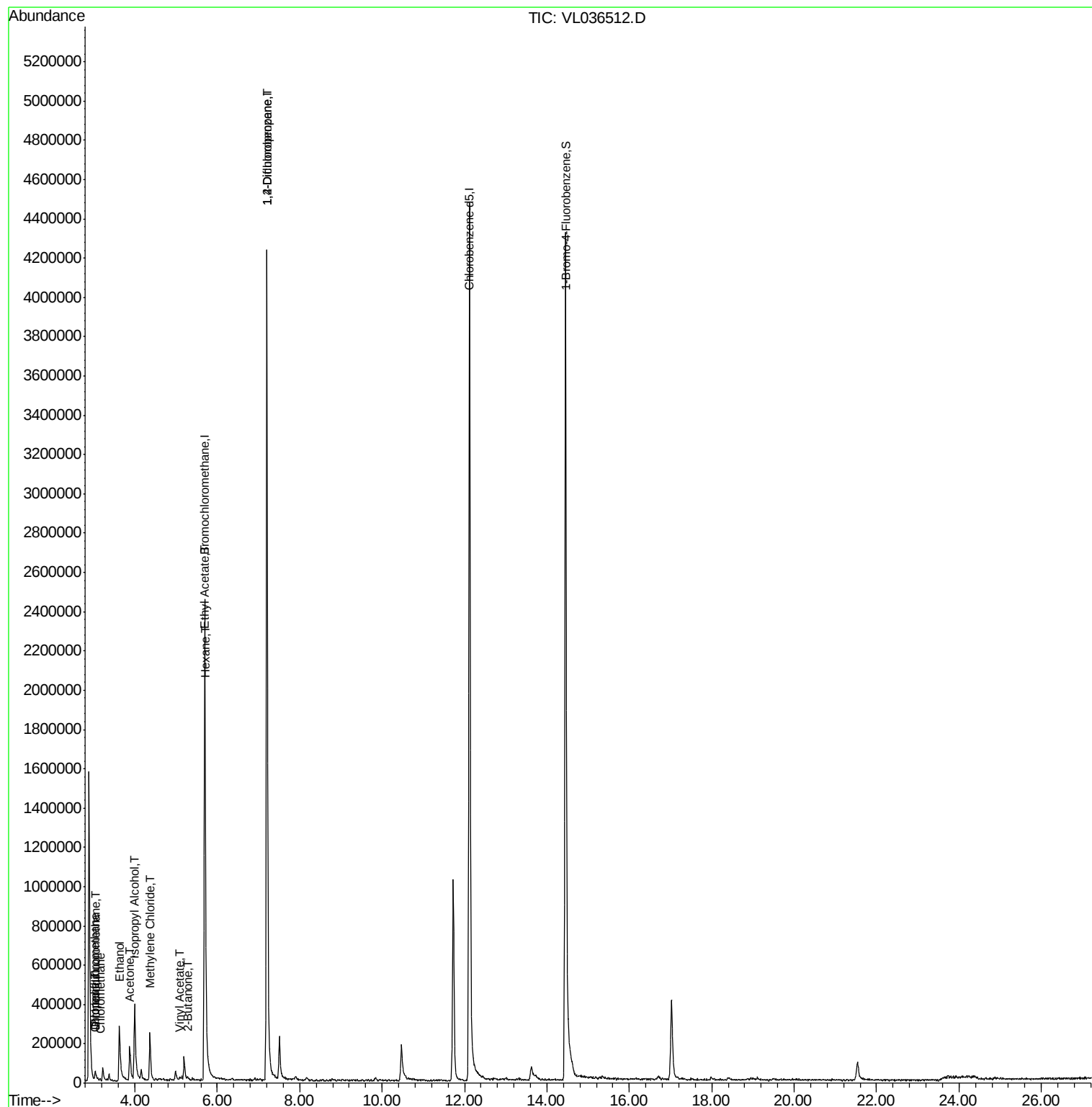
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	12400	0.050	ppbv #	79
3) Chlorodifluoromethane	3.01	51	9319	0.033	ppbv	99
4) Chloromethane	3.16	50	5687	0.057	ppbv	97
9) Propene	3.03	41	7201	0.080	ppbv #	14
13) Ethanol	3.62	45	386130	36.152	ppbv	96
15) Acetone	3.87	43	216962	1.464	ppbv #	85
19) Isopropyl Alcohol	3.99	45	556957	6.831	ppbv #	96
20) Methylene Chloride	4.36	84	84773	1.222	ppbv	92
23) Vinyl Acetate	5.09	43	5113	0.020	ppbv #	1
25) Ethyl Acetate	5.71	43	26489	0.075	ppbv #	78
26) Hexane	5.71	57	63789	0.390	ppbv #	46
34) 2-Butanone	5.27	43	5553	0.033	ppbv #	1
39) 1,2-Dichloropropane	7.20	63	920918	7.190	ppbv #	24

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
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QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.02 min

Lab File: VL036512.D

Acq: 26 Mar 2021 13:33

Instrument :
MSVOA_L
ClientSampleId :

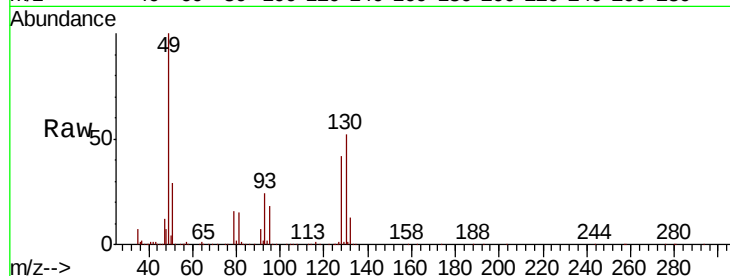
Tot Ion: 49 Resp: 1505845

Ion Ratio Lower Upper

49 100

128 43.5 23.5 70.6

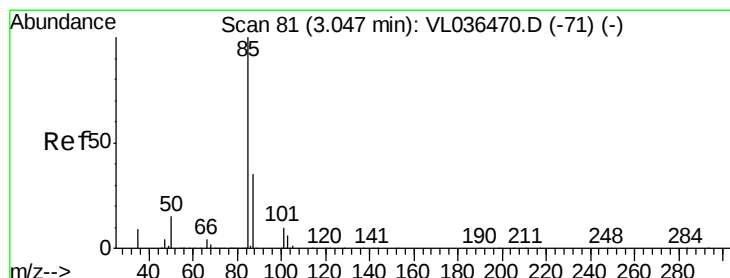
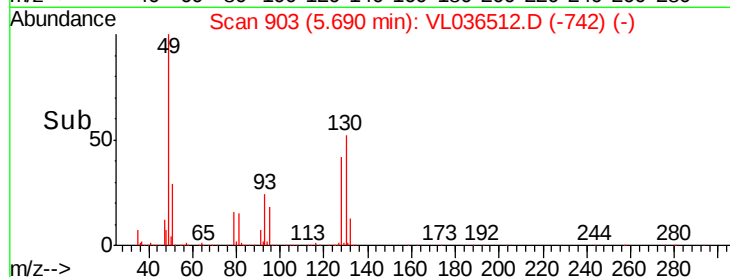
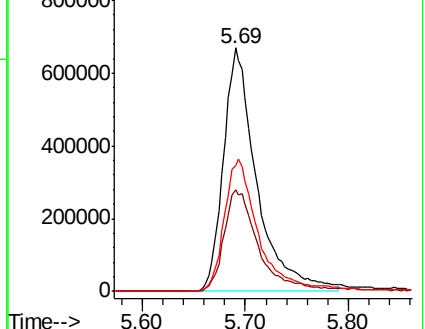
130 56.7 29.1 87.4



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



#2

Dichlorodifluoromethane

Concen: 0.050 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL036512.D

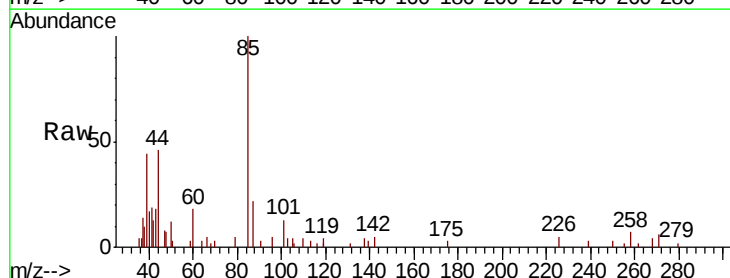
Acq: 26 Mar 2021 13:33

Tgt Ion: 85 Resp: 12400

Ion Ratio Lower Upper

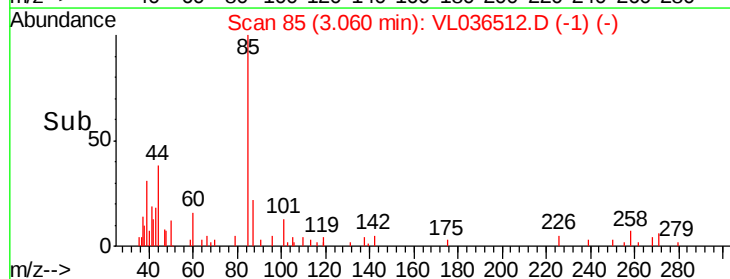
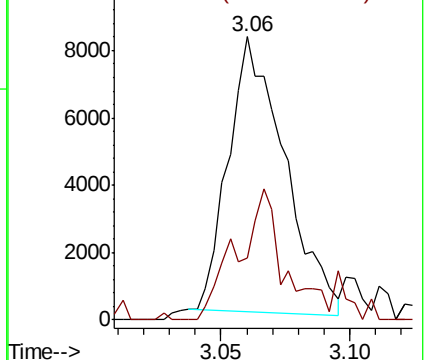
85 100

87 22.7 27.8 41.8#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.033 ppbv

RT: 3.01 min Scan# 69

Delta R.T. 0.02 min

Lab File: VL036512.D

Acq: 26 Mar 2021 13:33

Instrument :

MSVOA_L

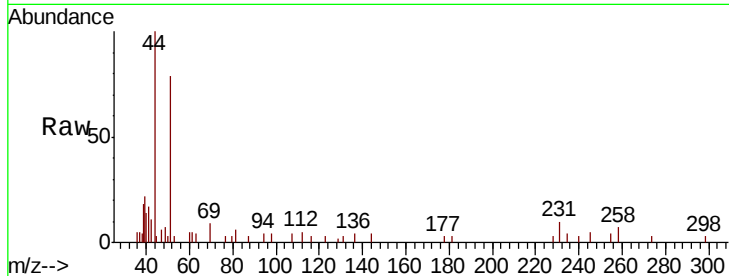
ClientSampleId :

Tot Ion: 51 Resp: 9319

Ion Ratio Lower Upper

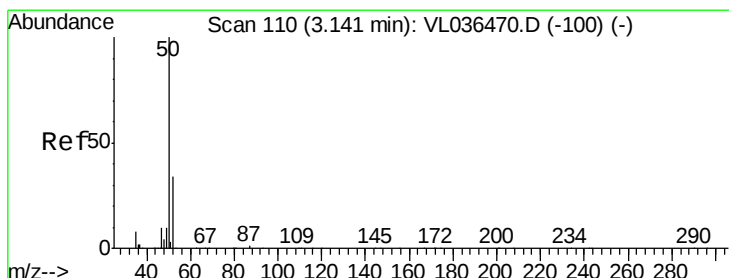
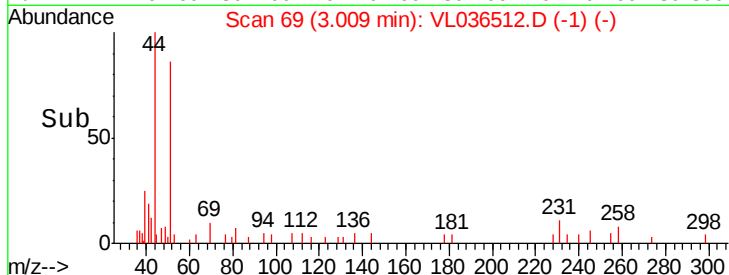
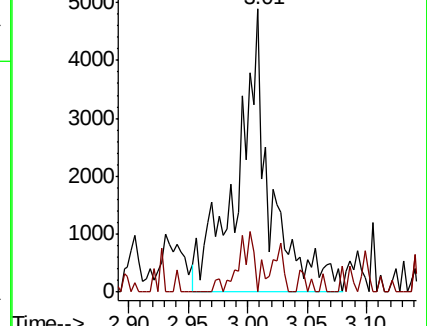
51 100

67 18.2 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.057 ppbv

RT: 3.16 min Scan# 116

Delta R.T. 0.02 min

Lab File: VL036512.D

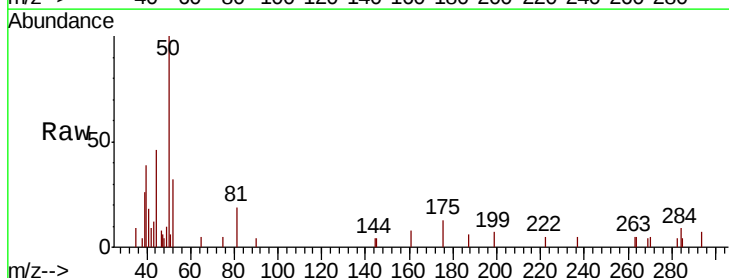
Acq: 26 Mar 2021 13:33

Tgt Ion: 50 Resp: 5687

Ion Ratio Lower Upper

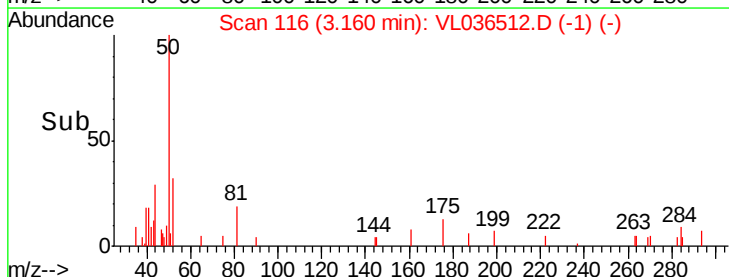
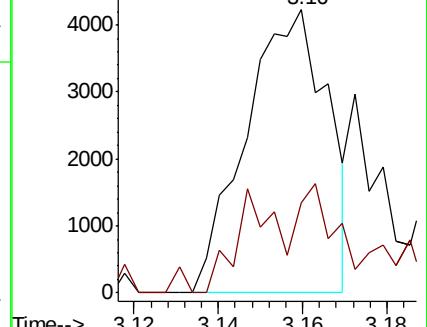
50 100

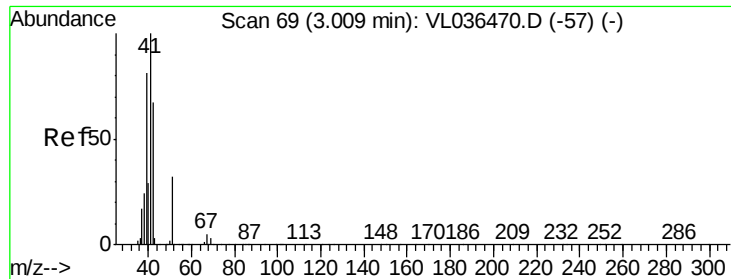
52 32.0 27.0 40.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.080 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL036512.D

Acq: 26 Mar 2021 13:33

Instrument :

MSVOA_L

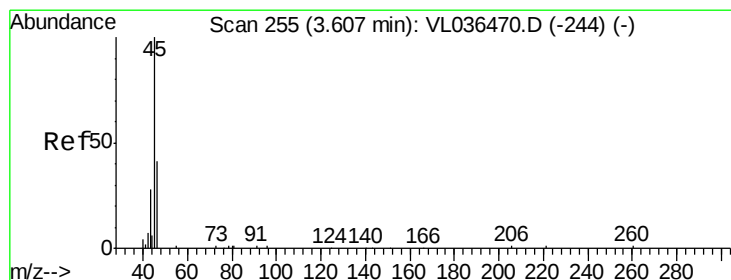
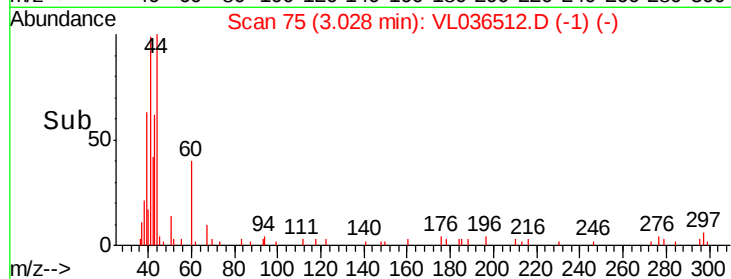
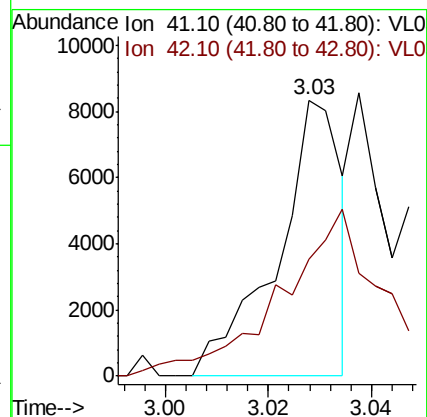
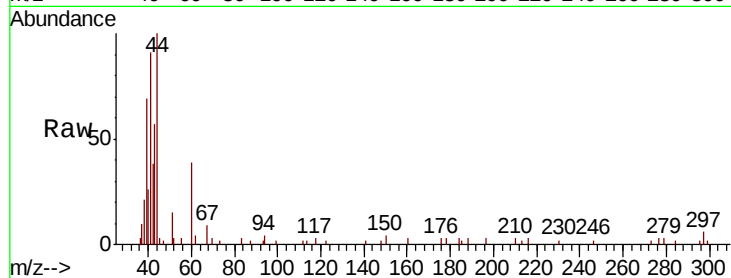
ClientSampleId :

Tot Ion: 41 Resp: 7201

Ion Ratio Lower Upper

41 100

42 0.0 57.0 85.4#



#13

Ethanol

Concen: 36.152 ppbv

RT: 3.62 min Scan# 259

Delta R.T. 0.01 min

Lab File: VL036512.D

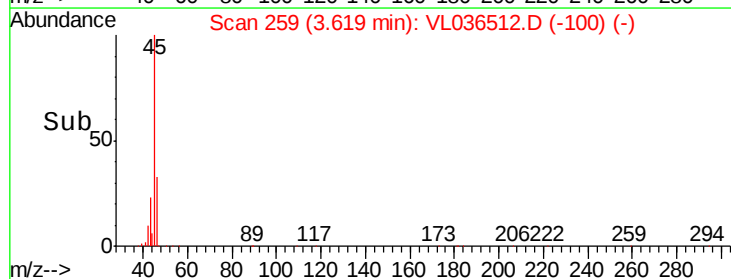
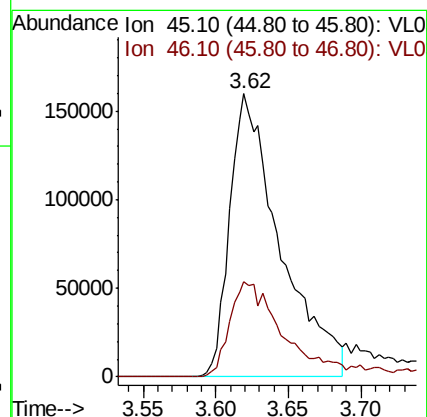
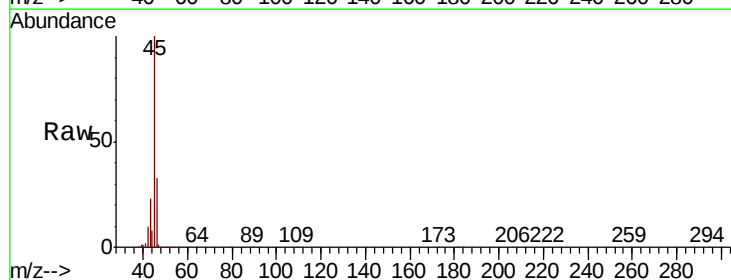
Acq: 26 Mar 2021 13:33

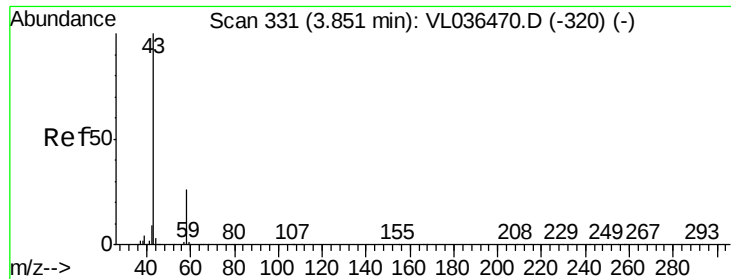
Tgt Ion: 45 Resp: 386130

Ion Ratio Lower Upper

45 100

46 39.0 16.6 66.2

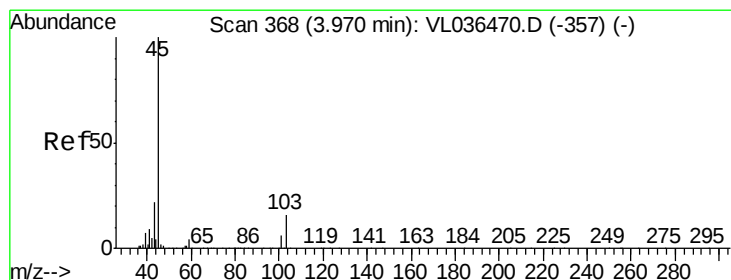
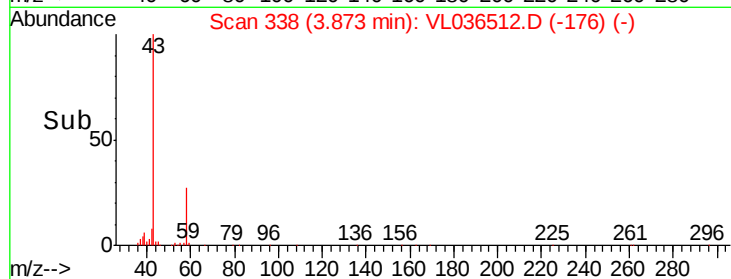
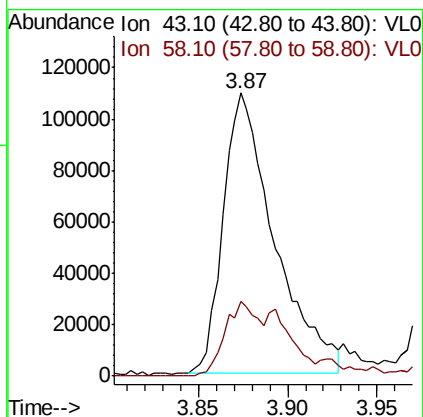
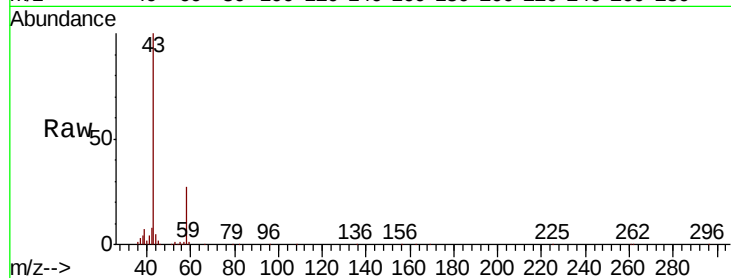




#15
Acetone
Concen: 1.464 ppbv
RT: 3.87 min Scan# 338
Delta R.T. 0.02 min
Lab File: VL036512.D
Acq: 26 Mar 2021 13:33

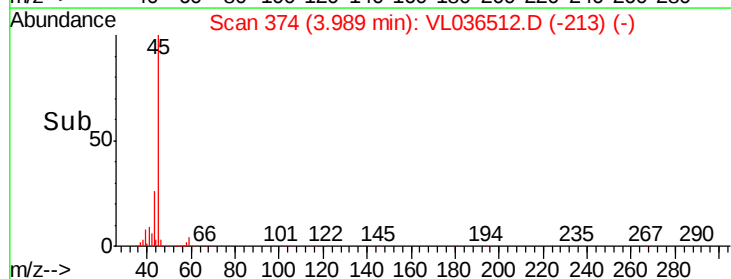
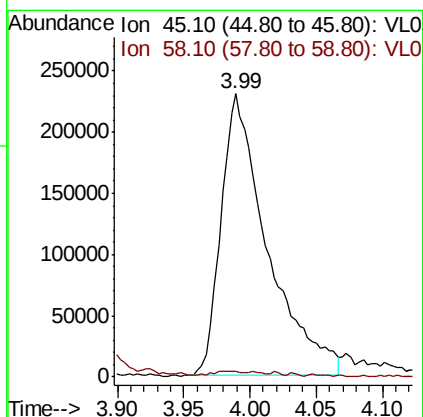
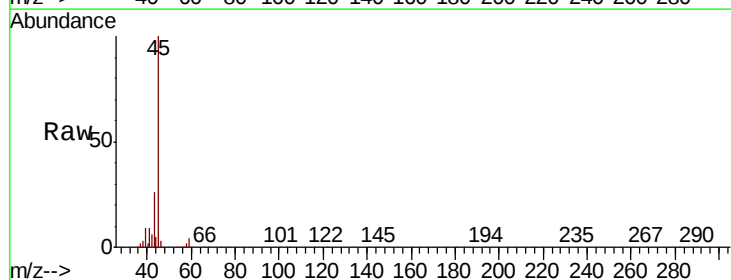
Instrument :
MSVOA_L
ClientSampleId :

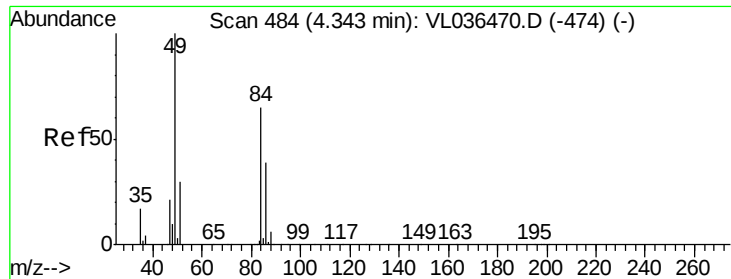
Tot Ion: 43 Resp: 216962
Ion Ratio Lower Upper
43 100
58 34.3 21.2 31.8#



#19
Isopropyl Alcohol
Concen: 6.831 ppbv
RT: 3.99 min Scan# 374
Delta R.T. 0.02 min
Lab File: VL036512.D
Acq: 26 Mar 2021 13:33

Tgt Ion: 45 Resp: 556957
Ion Ratio Lower Upper
45 100
58 2.2 2.9 4.3#

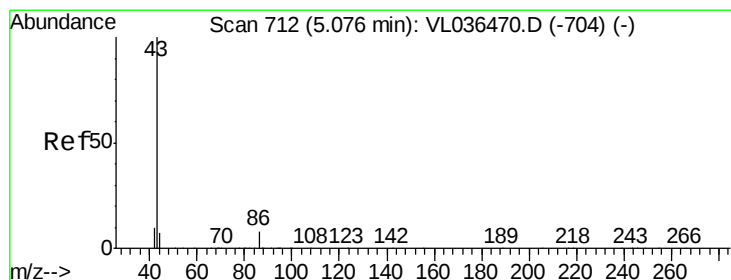
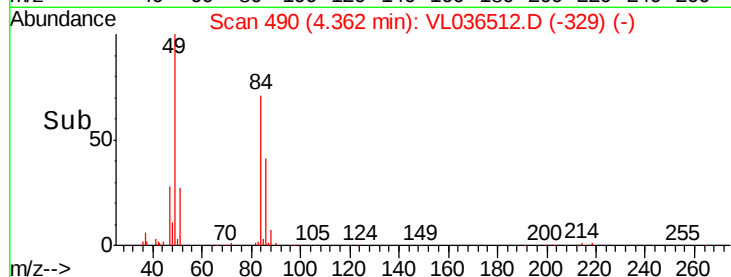
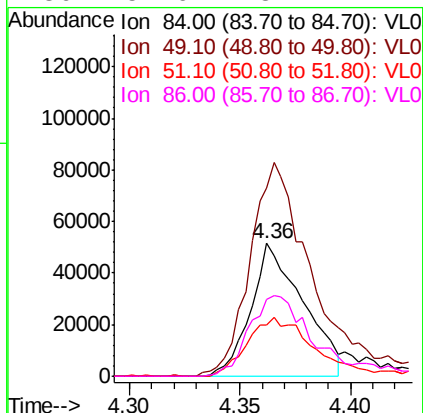
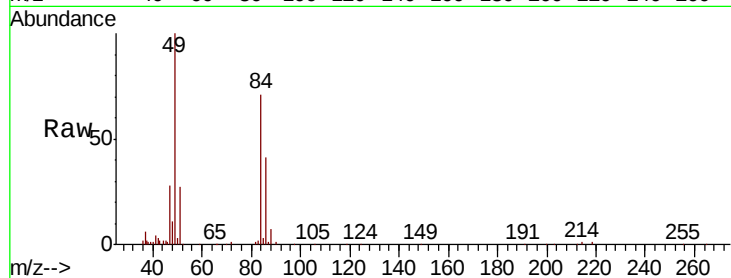




#20
Methvlene Chloride
Concen: 1.222 ppbv
RT: 4.36 min Scan# 490
Delta R.T. 0.02 min
Lab File: VL036512.D
Acq: 26 Mar 2021 13:33

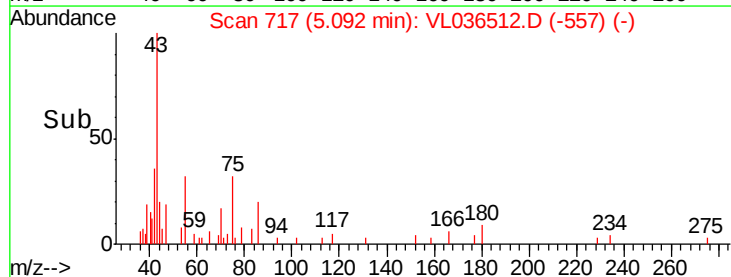
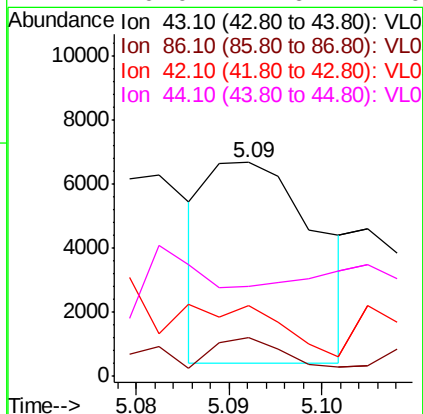
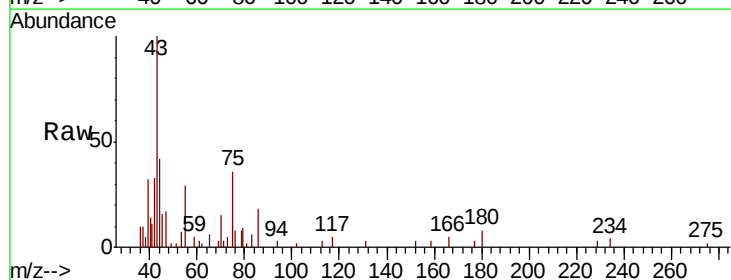
Instrument :
MSVOA_L
ClientSampleId :

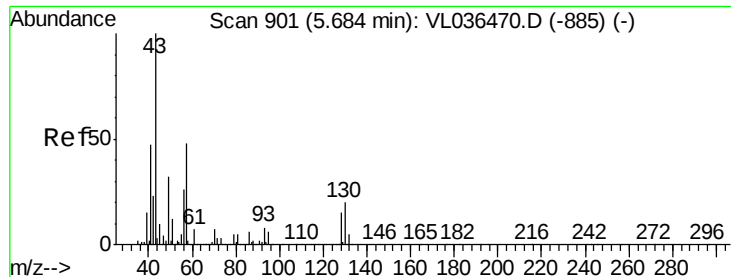
Tot Ion: 84 Resp: 84773
Ion Ratio Lower Upper
84 100
49 141.7 122.9 184.3
51 38.2 36.9 55.3
86 57.6 48.2 72.4



#23
Vinyl Acetate
Concen: 0.020 ppbv
RT: 5.09 min Scan# 717
Delta R.T. 0.02 min
Lab File: VL036512.D
Acq: 26 Mar 2021 13:33

Tgt Ion: 43 Resp: 5113
Ion Ratio Lower Upper
43 100
86 43.6 5.4 8.0#
42 70.3 8.5 12.7#
44 0.0 4.6 7.0#

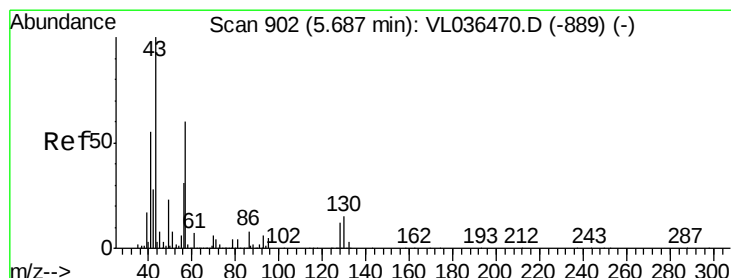
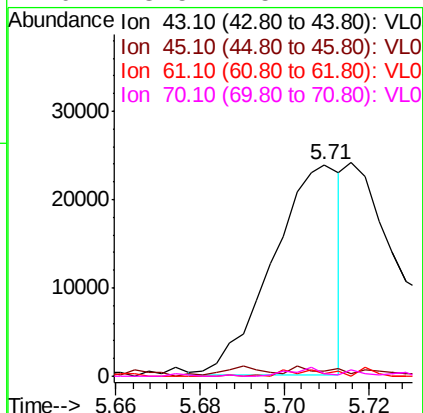
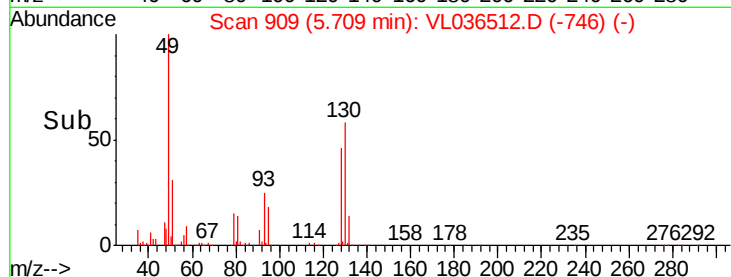
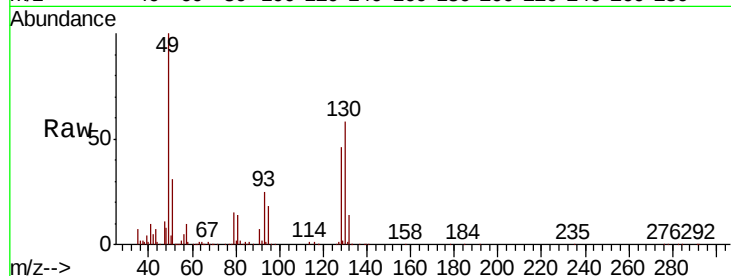




#25
Ethyl Acetate
Concen: 0.075 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.03 min
Lab File: VL036512.D
Acq: 26 Mar 2021 13:33

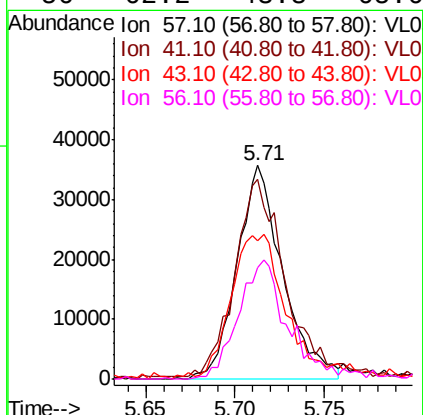
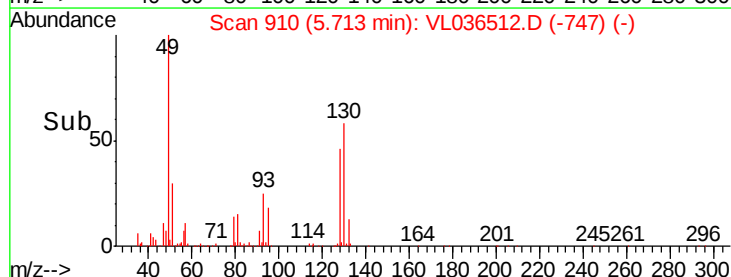
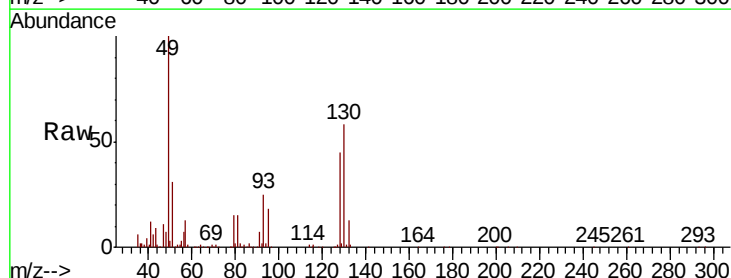
Instrument :
MSVOA_L
ClientSampleId :

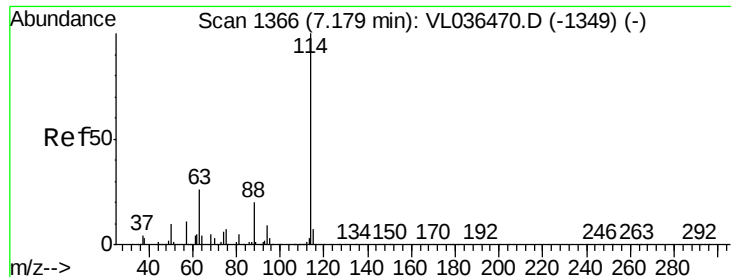
Tot Ion:	43	Resp:	26489
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.9	11.9#
61	0.0	7.4	11.2#
70	3.5	5.1	7.7#



#26
Hexane
Concen: 0.390 ppbv
RT: 5.71 min Scan# 910
Delta R.T. 0.03 min
Lab File: VL036512.D
Acq: 26 Mar 2021 13:33

Tgt Ion:	57	Resp:	63789
Ion	Ratio	Lower	Upper
57	100		
41	108.8	77.2	115.8
43	83.5	173.8	260.6#
56	62.2	43.8	65.6

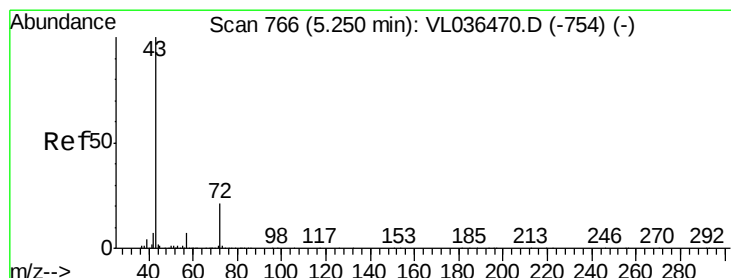
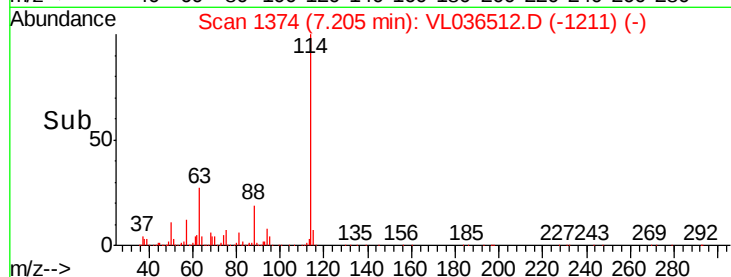
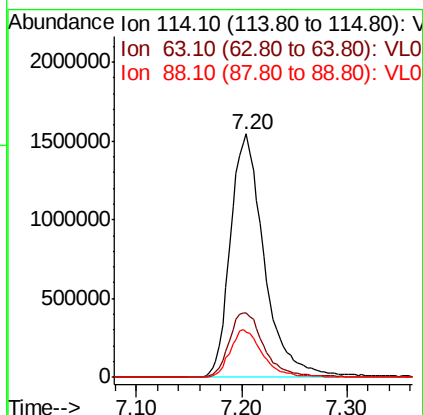
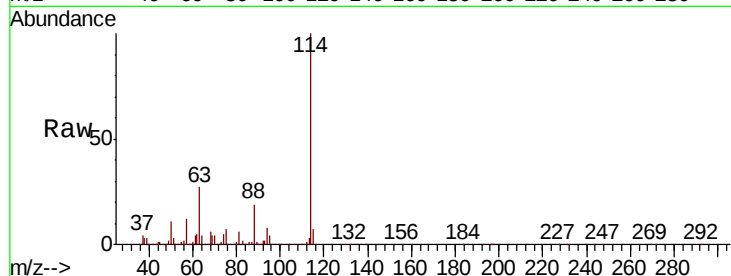




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1374
 Delta R.T. 0.03 min
 Lab File: VL036512.D
 Acq: 26 Mar 2021 13:33

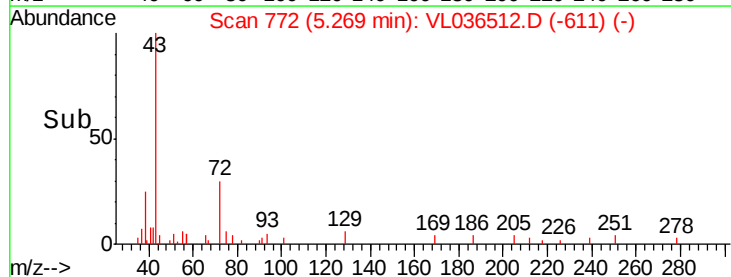
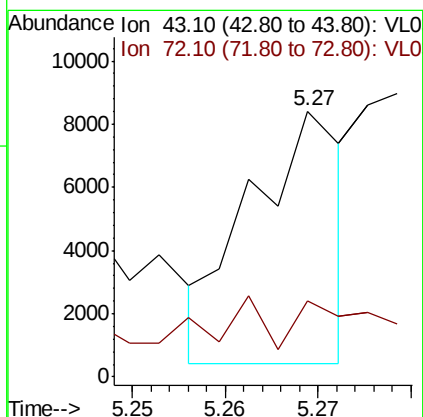
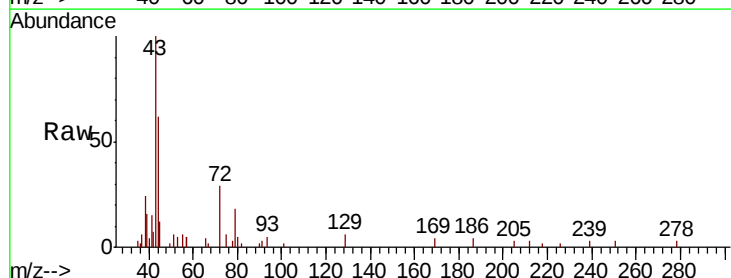
Instrument :
 MSVOA_L
 ClientSampleId :

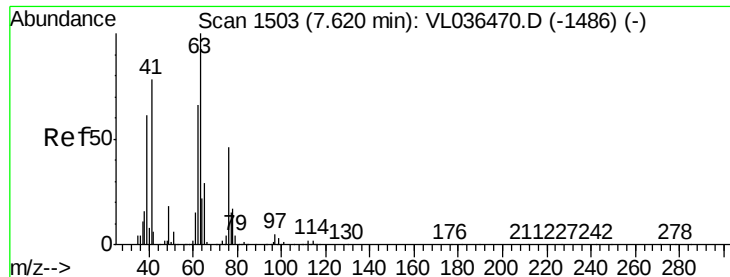
Tot Ion:114 Resp: 3423548
 Ion Ratio Lower Upper
 114 100
 63 27.9 22.4 33.6
 88 19.3 15.4 23.0



#34
 2-Butanone
 Concen: 0.033 ppbv
 RT: 5.27 min Scan# 772
 Delta R.T. 0.02 min
 Lab File: VL036512.D
 Acq: 26 Mar 2021 13:33

Tgt Ion: 43 Resp: 5553
 Ion Ratio Lower Upper
 43 100
 72 112.1 17.0 25.6#

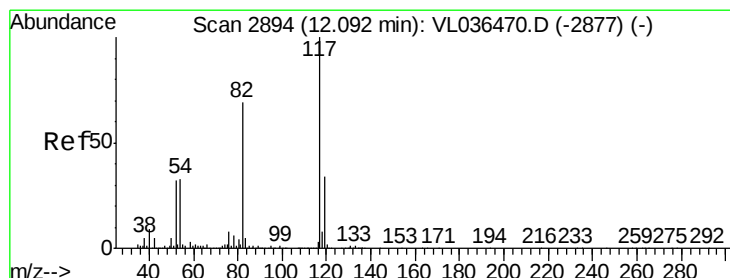
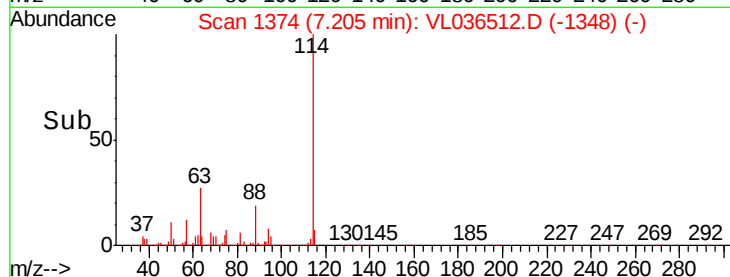
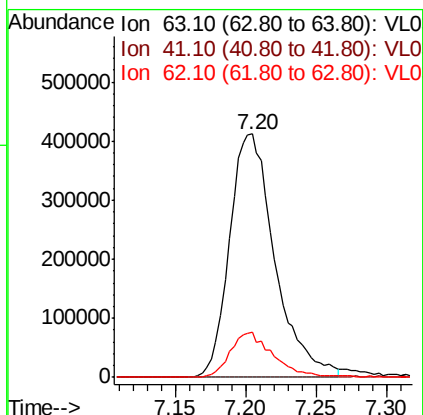
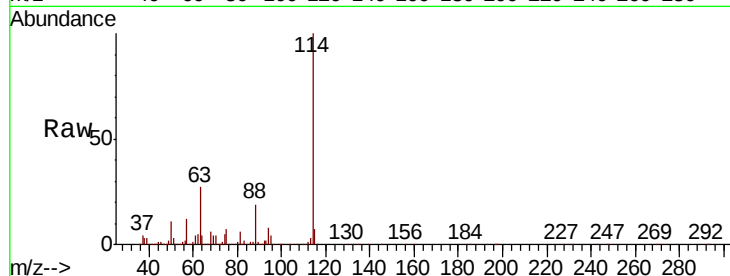




#39
 1,2-Dichloropropane
 Concen: 7.190 ppbv
 RT: 7.20 min Scan# 1374
 Delta R.T. -0.41 min
 Lab File: VL036512.D
 Acq: 26 Mar 2021 13:33

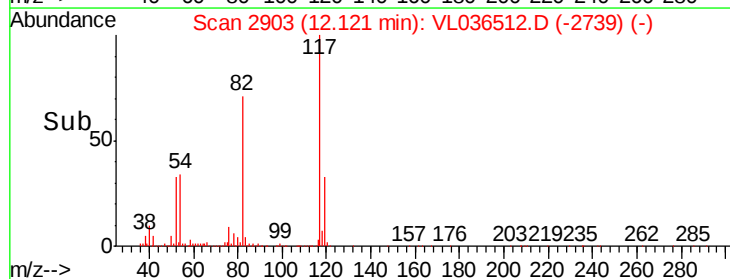
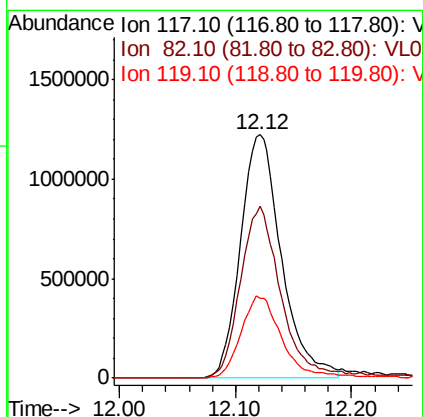
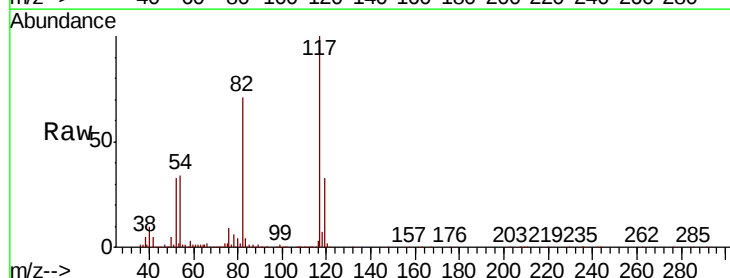
Instrument :
 MSVOA_L
 ClientSampleId :

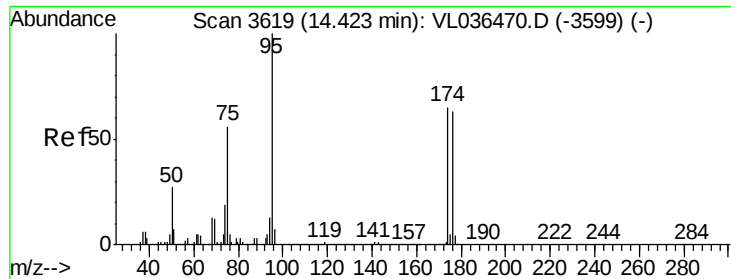
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.4	93.6#
62	18.4	52.8	79.2#



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.12 min Scan# 2903
 Delta R.T. 0.03 min
 Lab File: VL036512.D
 Acq: 26 Mar 2021 13:33

Tgt Ion	Ratio	Lower	Upper
117	100		
82	72.8	57.4	86.0
119	34.4	47.4	71.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.788 ppbv

RT: 14.45 min Scan# 3628

Delta R.T. 0.03 min

Lab File: VL036512.D

Acq: 26 Mar 2021 13:33

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2347830

Ion Ratio Lower Upper

95 100

174 66.0 51.0 76.6

175 5.1 3.9 5.9

