

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032621\
 Data File : VL036525.D
 Acq On : 26 Mar 2021 22:29
 Operator : SY/AP
 Sample : M1760-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 27 03:31:27 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	1309469	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2980582	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2673374	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2083788	9.78	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.80%

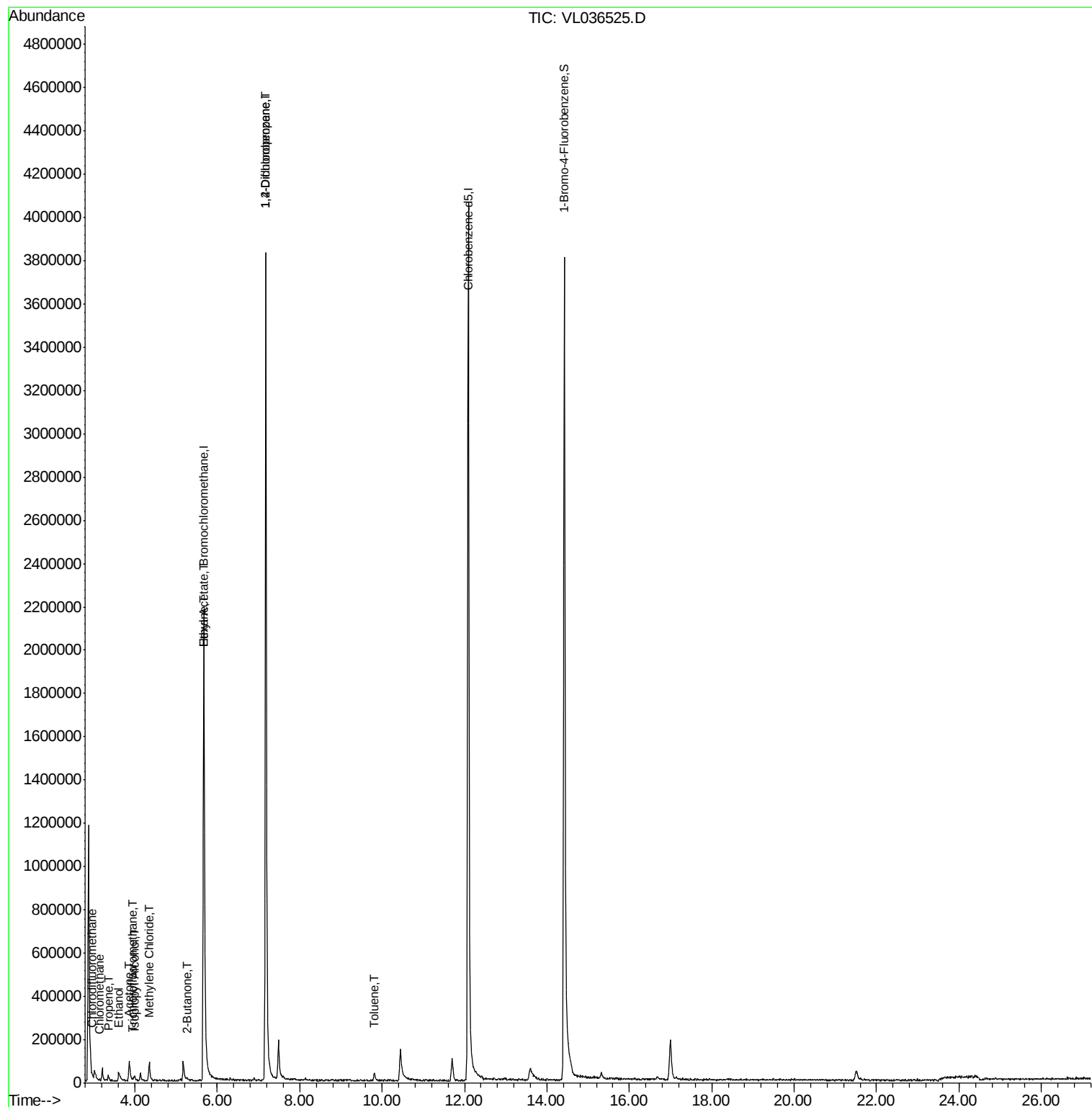
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.96	51	22240	0.091	ppbv #	78
4) Chloromethane	3.14	50	2454	0.028	ppbv #	77
9) Propene	3.36	41	5840	0.075	ppbv	93
11) Trichlorofluoromethane	3.95	101	4686	0.022	ppbv	91
13) Ethanol	3.61	45	22949	2.471	ppbv #	6
15) Acetone	3.85	43	96080	0.745	ppbv #	61
19) Isopropyl Alcohol	3.99	45	11952	0.169	ppbv #	33
20) Methylene Chloride	4.35	84	31262	0.518	ppbv	97
25) Ethyl Acetate	5.69	43	24112	0.079	ppbv #	82
26) Hexane	5.69	57	54259	0.382	ppbv #	41
34) 2-Butanone	5.26	43	9376	0.064	ppbv #	79
39) 1,2-Dichloropropane	7.18	63	829746	7.441	ppbv #	24
53) Toluene	9.81	91	8547	0.029	ppbv #	1

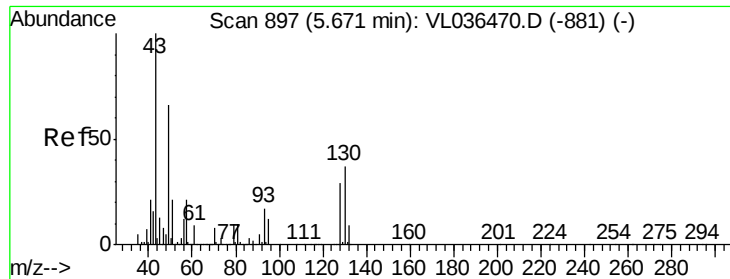
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.00 min

Lab File: VL036525.D

Acq: 26 Mar 2021 22:29

Instrument :

MSVOA_L

ClientSampled :

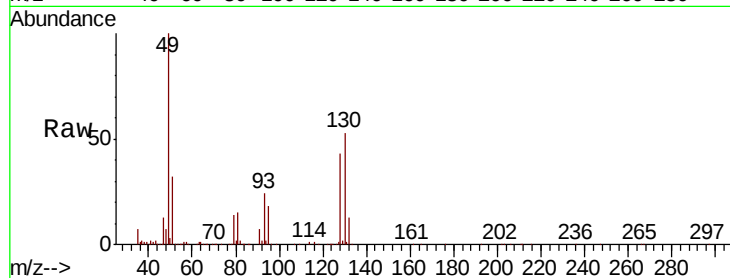
Tot Ion: 49 Resp: 1309469

Ion Ratio Lower Upper

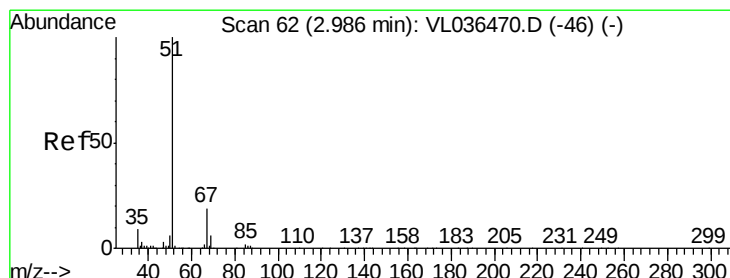
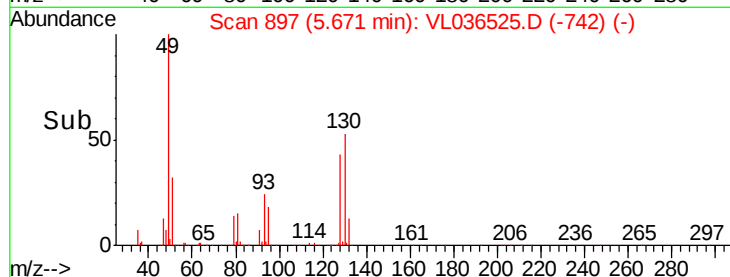
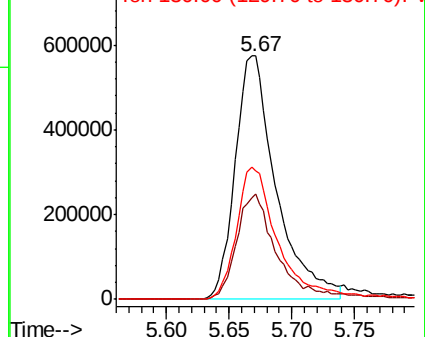
49 100

128 43.3 23.5 70.6

130 55.9 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



#3

Chlorodifluoromethane

Concen: 0.091 ppbv

RT: 2.96 min Scan# 55

Delta R.T. -0.02 min

Lab File: VL036525.D

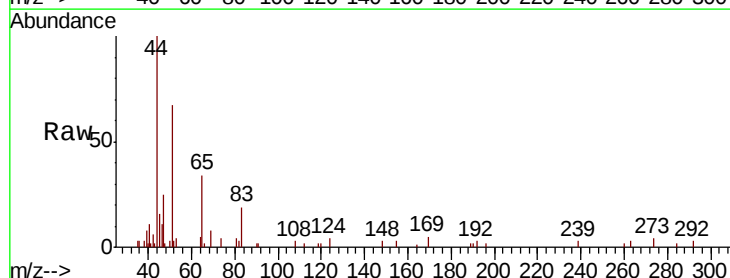
Acq: 26 Mar 2021 22:29

Tgt Ion: 51 Resp: 22240

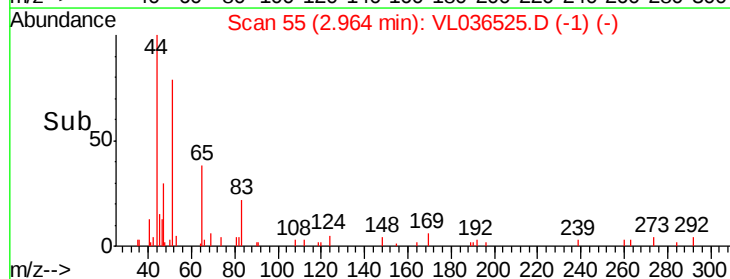
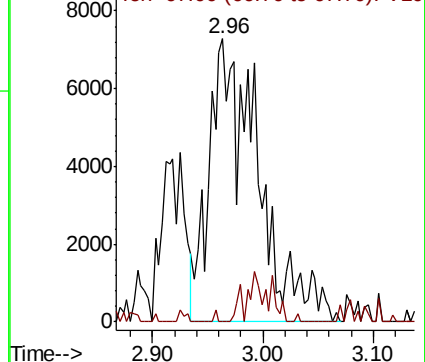
Ion Ratio Lower Upper

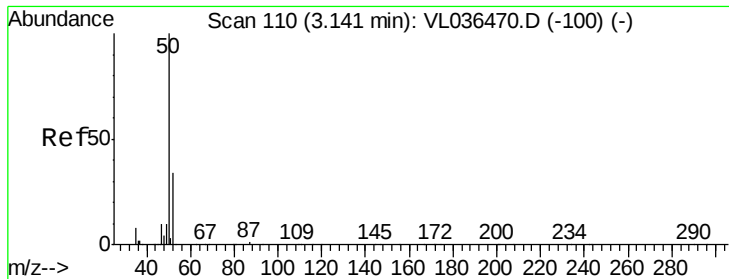
51 100

67 8.4 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: 0.028 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL036525.D

Acq: 26 Mar 2021 22:29

Instrument :

MSVOA_L

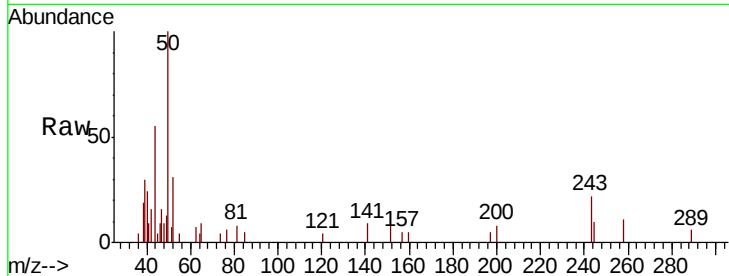
ClientSampleId :

Tot Ion: 50 Resp: 2454

Ion Ratio Lower Upper

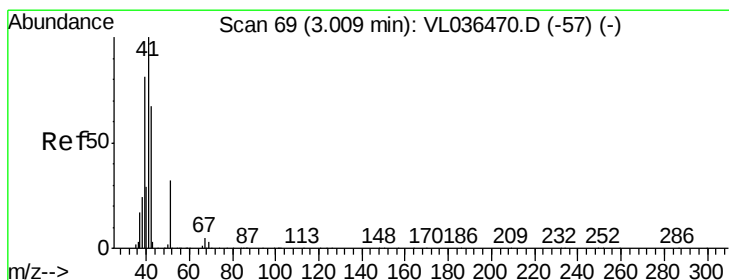
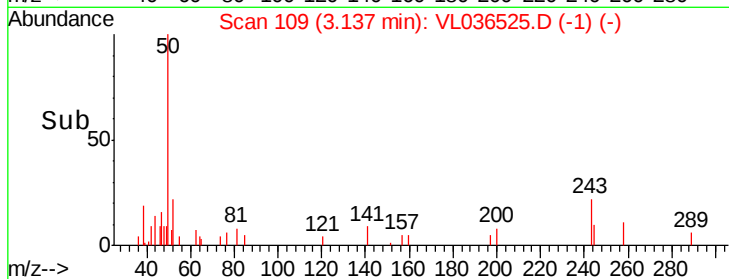
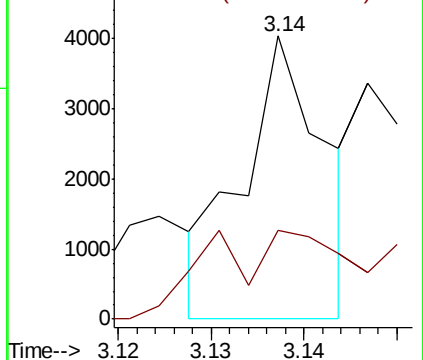
50 100

52 20.7 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: 0.075 ppbv

RT: 3.36 min Scan# 177

Delta R.T. 0.35 min

Lab File: VL036525.D

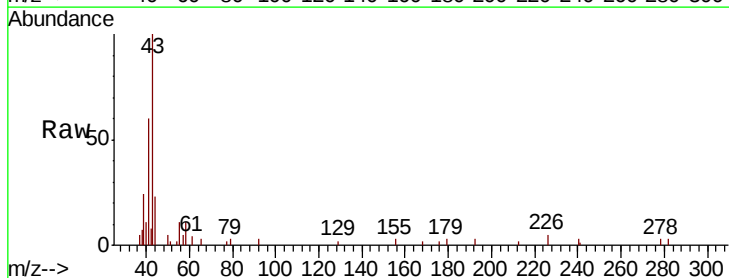
Acq: 26 Mar 2021 22:29

Tgt Ion: 41 Resp: 5840

Ion Ratio Lower Upper

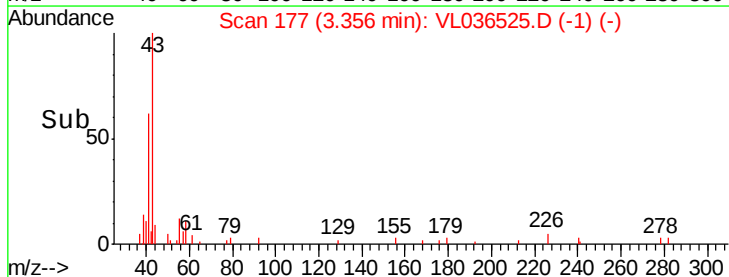
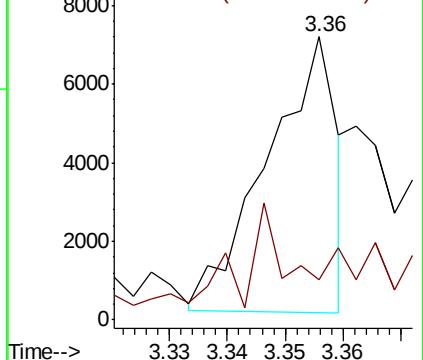
41 100

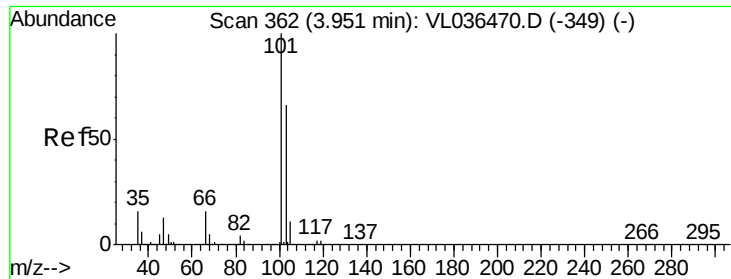
42 77.1 57.0 85.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

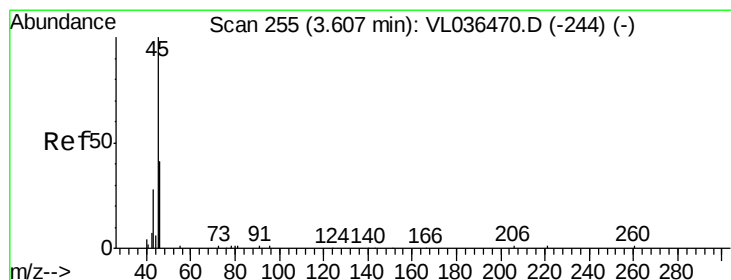
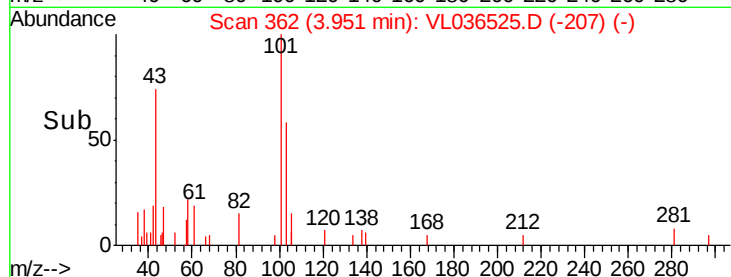
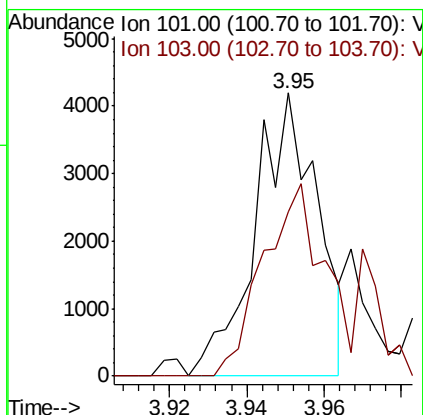
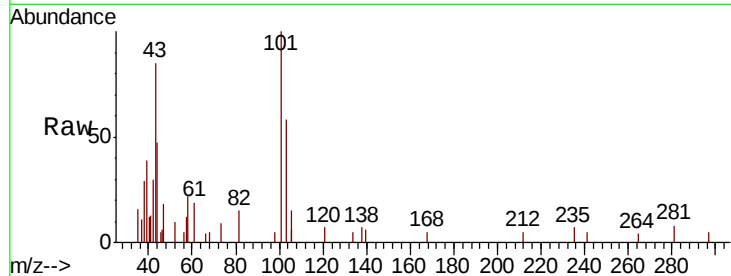




#11
 Trichlorofluoromethane
 Concen: 0.022 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.00 min
 Lab File: VL036525.D
 Acq: 26 Mar 2021 22:29

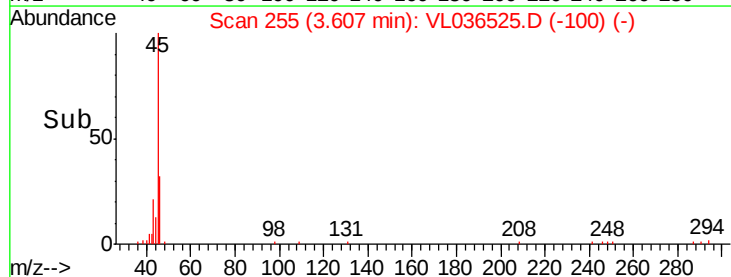
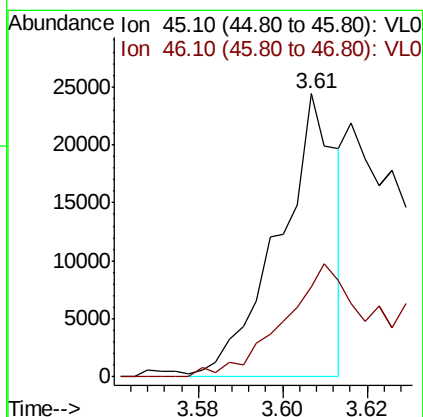
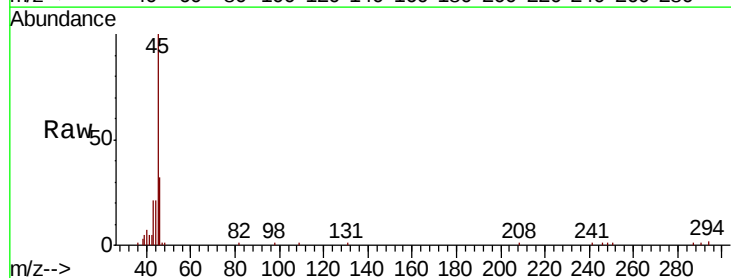
Instrument :
 MSVOA_L
 ClientSampleId :

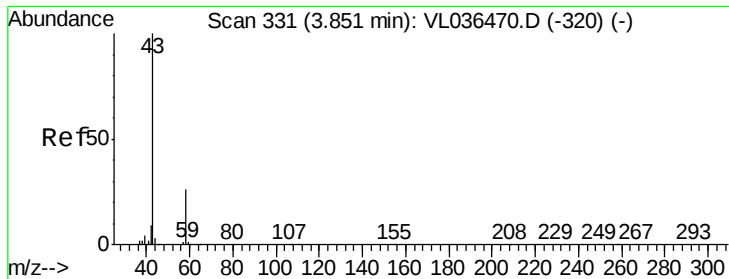
Tot Ion:101 Resp: 4686
 Ion Ratio Lower Upper
 101 100
 103 58.2 52.5 78.7



#13
 Ethanol
 Concen: 2.471 ppbv
 RT: 3.61 min Scan# 255
 Delta R.T. -0.00 min
 Lab File: VL036525.D
 Acq: 26 Mar 2021 22:29

Tgt Ion: 45 Resp: 22949
 Ion Ratio Lower Upper
 45 100
 46 100.7 16.6 66.2#





#15

Acetone

Concen: 0.745 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL036525.D

Acq: 26 Mar 2021 22:29

Instrument :

MSVOA_L

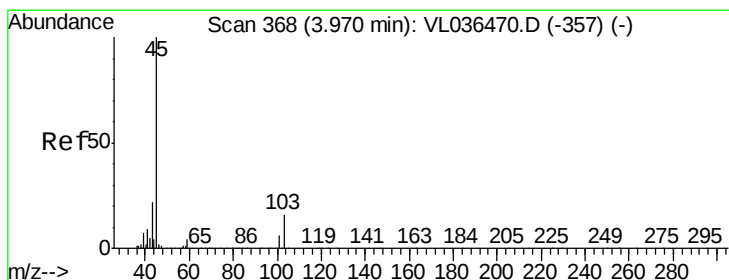
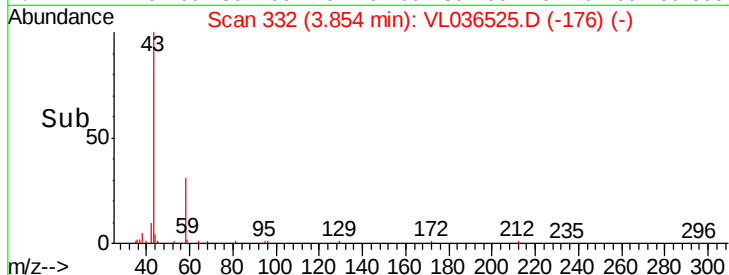
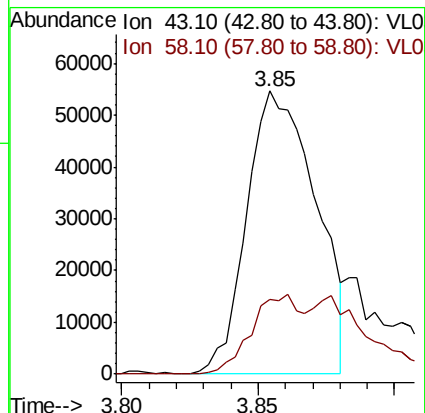
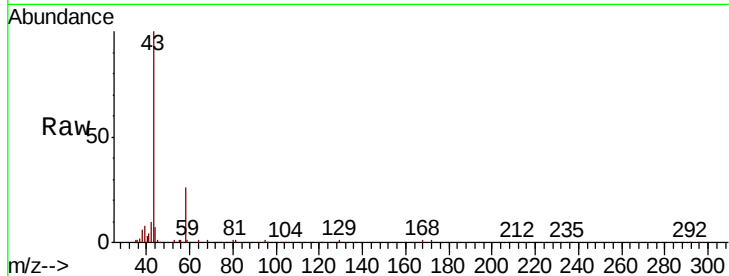
ClientSampleId :

Tot Ion: 43 Resp: 96080

Ion Ratio Lower Upper

43 100

58 46.7 21.2 31.8#



#19

Isopropyl Alcohol

Concen: 0.169 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.02 min

Lab File: VL036525.D

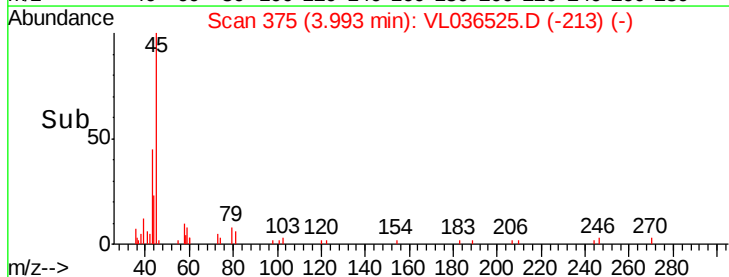
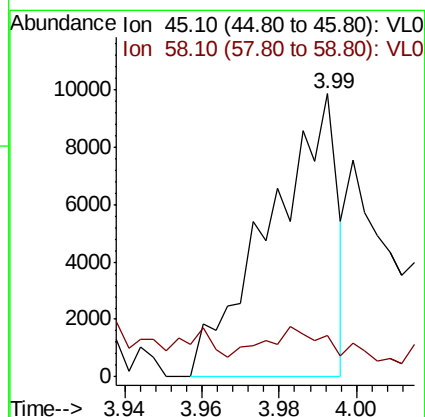
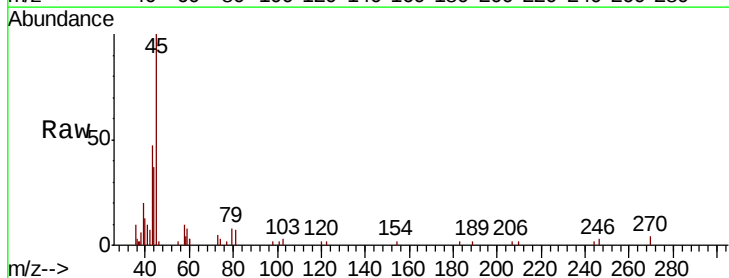
Acq: 26 Mar 2021 22:29

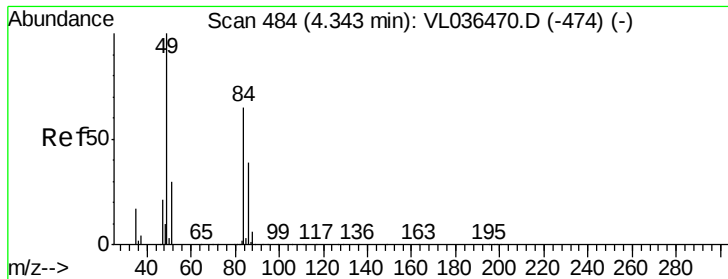
Tgt Ion: 45 Resp: 11952

Ion Ratio Lower Upper

45 100

58 25.7 2.9 4.3#





#20

Methylene Chloride

Concen: 0.518 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL036525.D

Acq: 26 Mar 2021 22:29

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 84 Resp: 31262

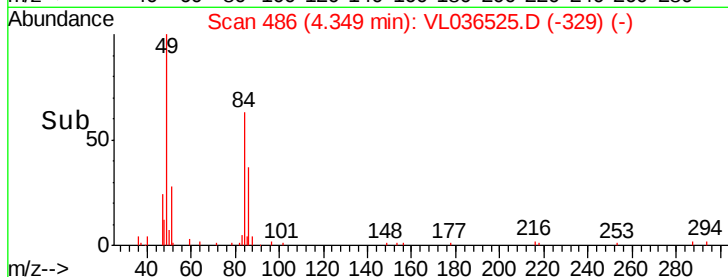
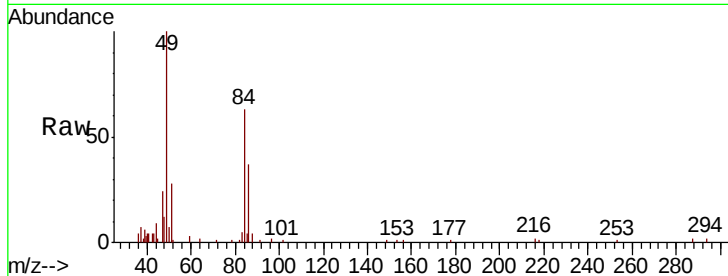
Ion Ratio Lower Upper

84 100

49 157.6 122.9 184.3

51 43.8 36.9 55.3

86 57.6 48.2 72.4

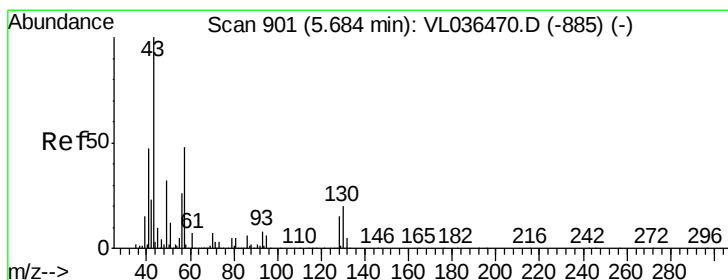
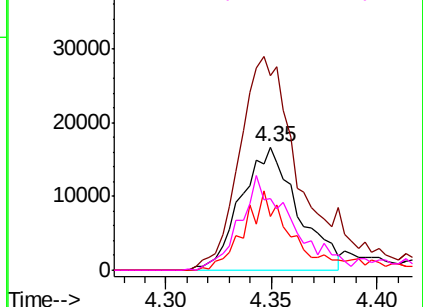


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#25

Ethyl Acetate

Concen: 0.079 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL036525.D

Acq: 26 Mar 2021 22:29

Tgt Ion: 43 Resp: 24112

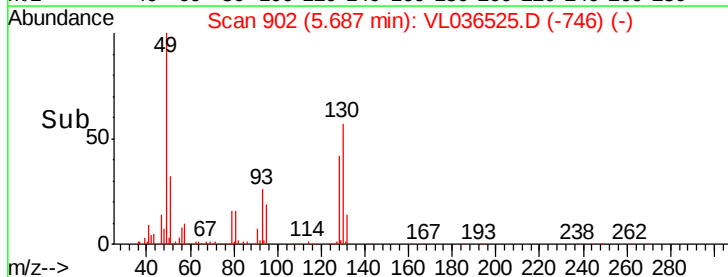
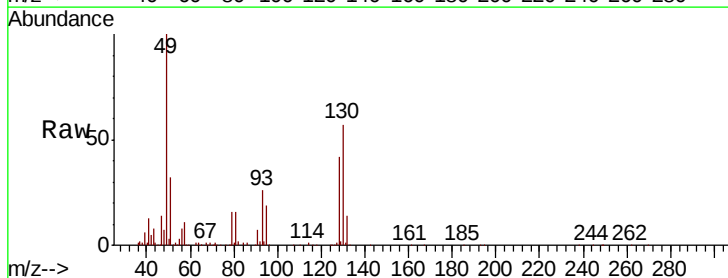
Ion Ratio Lower Upper

43 100

45 0.0 7.9 11.9#

61 1.8 7.4 11.2#

70 5.7 5.1 7.7

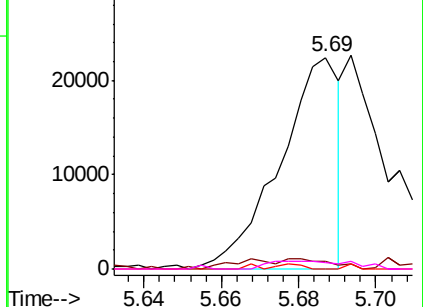


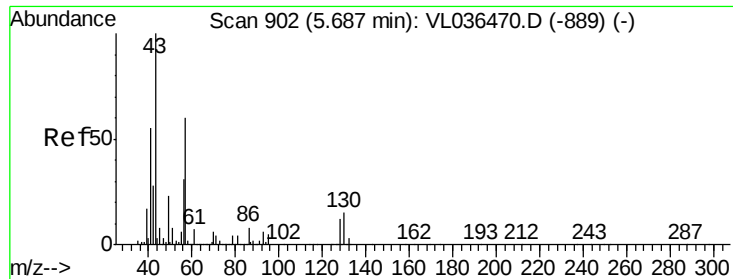
Abundance Ion 43.10 (42.80 to 43.80): VL0

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

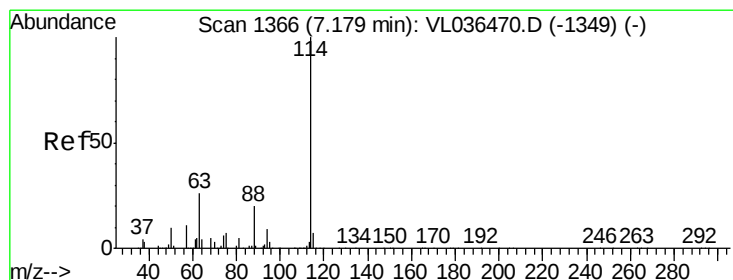
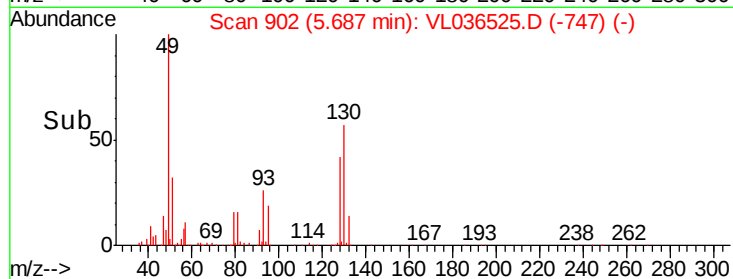
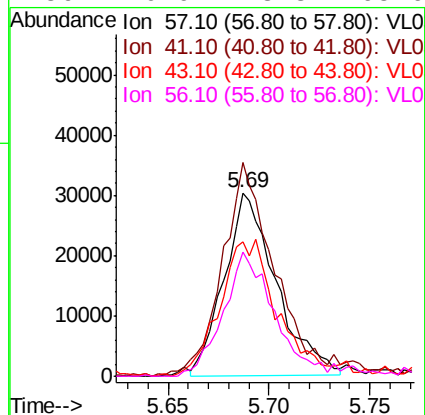
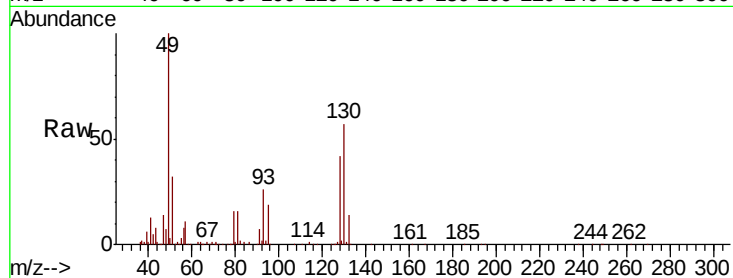




#26
Hexane
Concen: 0.382 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL036525.D
Acq: 26 Mar 2021 22:29

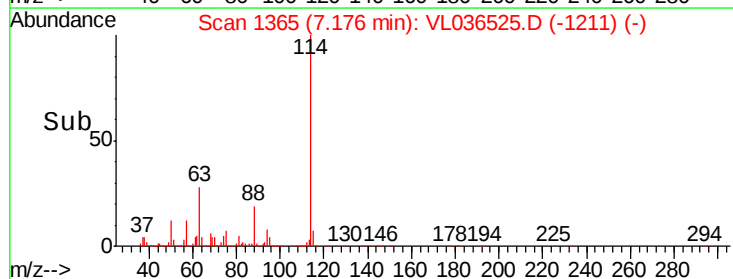
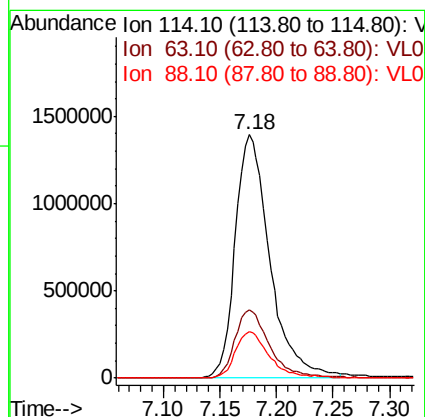
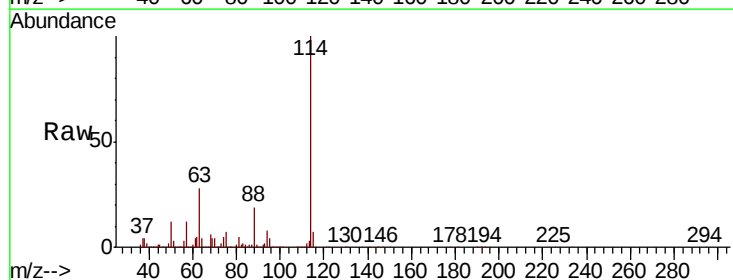
Instrument :
MSVOA_L
ClientSampled :

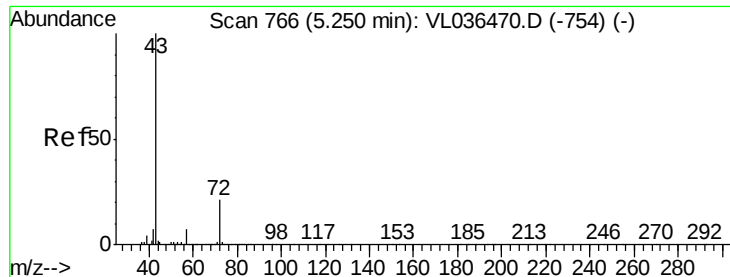
Tot Ion: 57 Resp: 54259
Ion Ratio Lower Upper
57 100
41 125.7 77.2 115.8#
43 88.6 173.8 260.6#
56 70.9 43.8 65.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.00 min
Lab File: VL036525.D
Acq: 26 Mar 2021 22:29

Tgt Ion: 114 Resp: 2980582
Ion Ratio Lower Upper
114 100
63 28.7 22.4 33.6
88 18.8 15.4 23.0

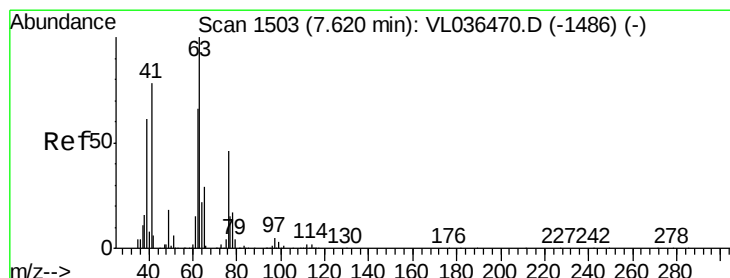
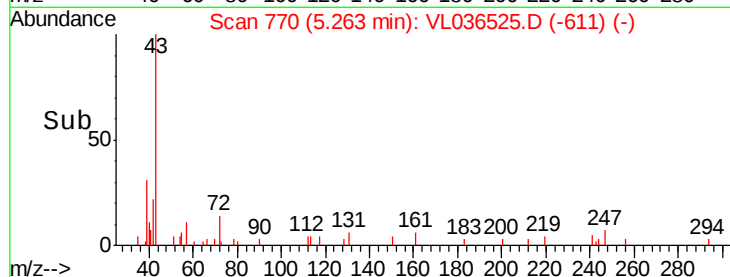
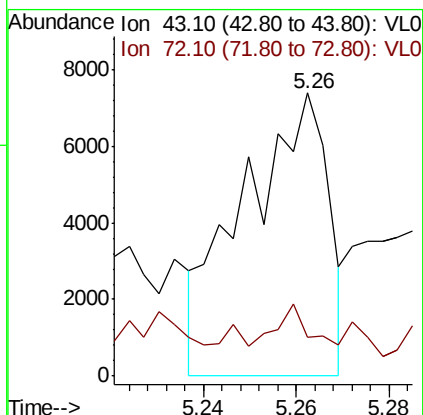
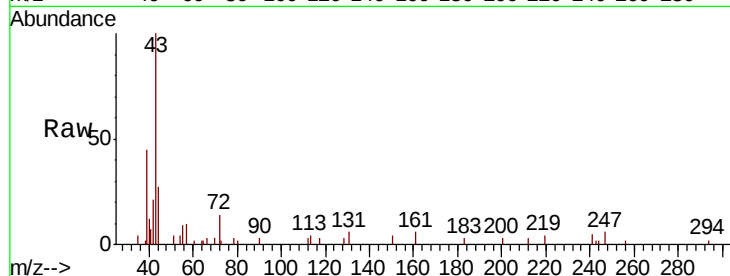




#34
2-Butanone
Concen: 0.064 ppbv
RT: 5.26 min Scan# 770
Delta R.T. 0.01 min
Lab File: VL036525.D
Acq: 26 Mar 2021 22:29

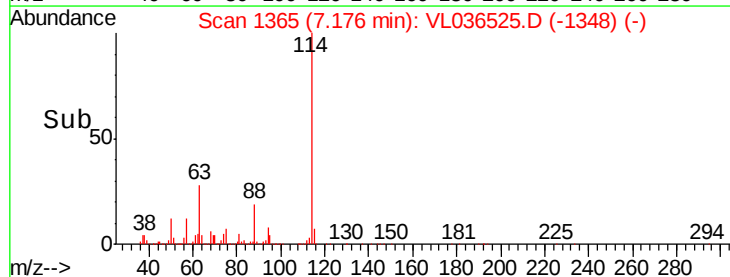
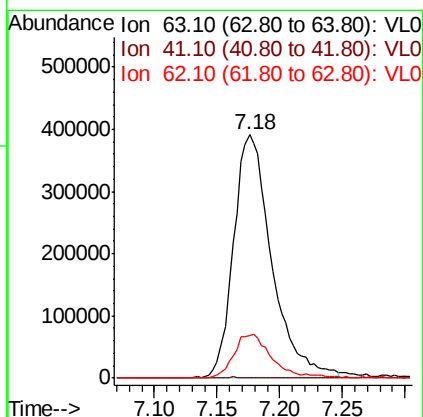
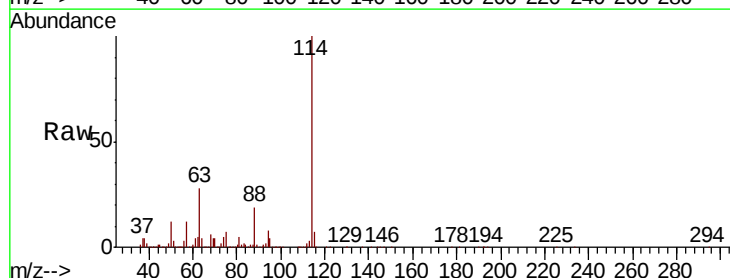
Instrument :
MSVOA_L
ClientSampleId :

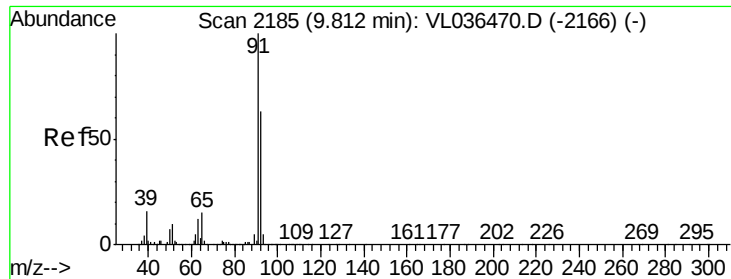
Tot Ion: 43 Resp: 9376
Ion Ratio Lower Upper
43 100
72 31.2 17.0 25.6#



#39
1,2-Dichloropropane
Concen: 7.441 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.44 min
Lab File: VL036525.D
Acq: 26 Mar 2021 22:29

Tgt Ion: 63 Resp: 829746
Ion Ratio Lower Upper
63 100
41 0.0 62.4 93.6#
62 17.6 52.8 79.2#





#53

Toluene

Concen: 0.029 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.00 min

Lab File: VL036525.D

Acq: 26 Mar 2021 22:29

Instrument :

MSVOA_L

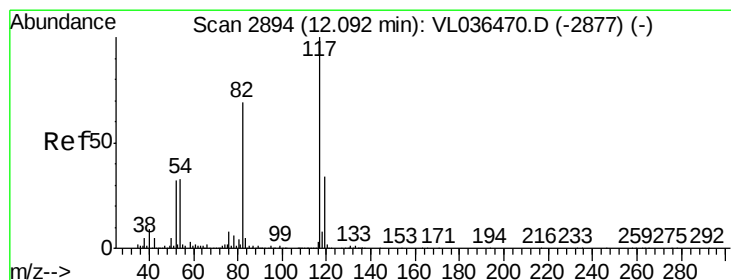
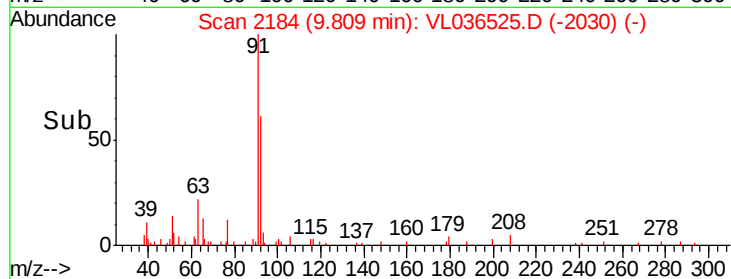
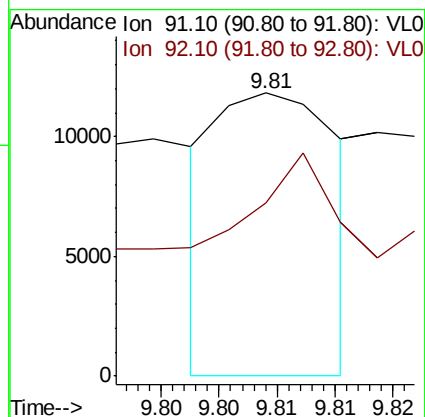
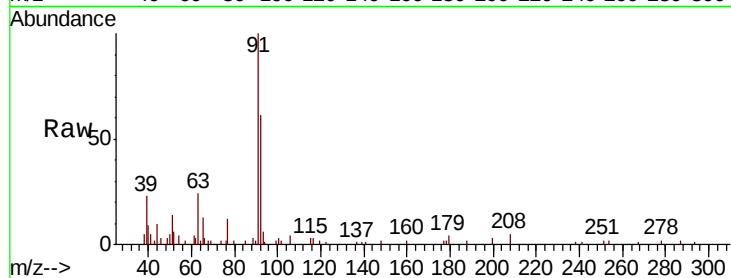
ClientSampleId :

Tot Ion: 91 Resp: 8547

Ion Ratio Lower Upper

91 100

92 214.6 48.8 73.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2893

Delta R.T. -0.00 min

Lab File: VL036525.D

Acq: 26 Mar 2021 22:29

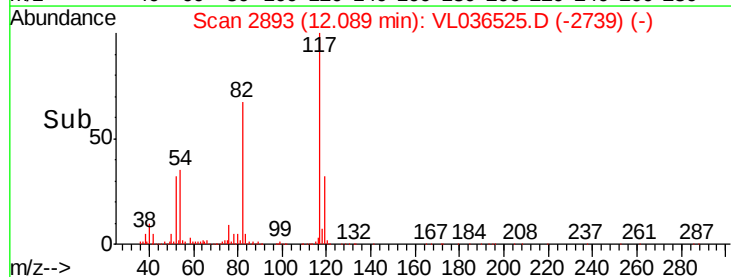
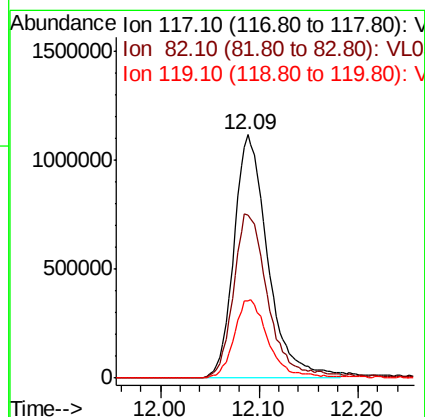
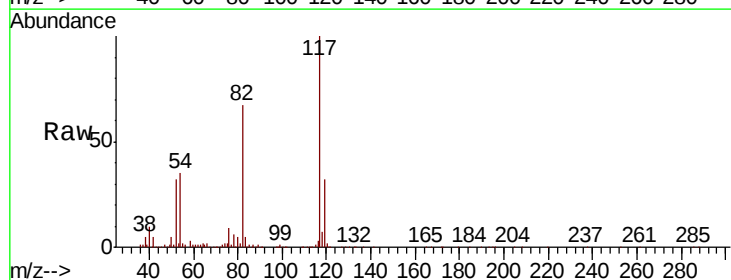
Tgt Ion: 117 Resp: 2673374

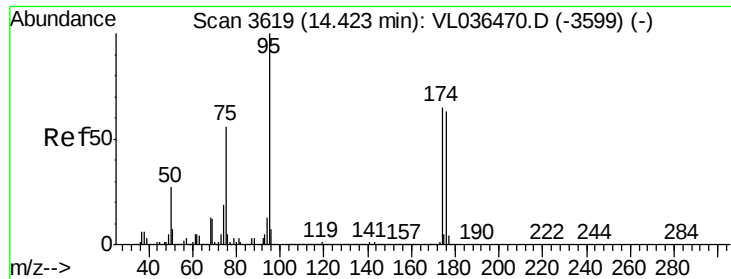
Ion Ratio Lower Upper

117 100

82 70.4 57.4 86.0

119 33.6 47.4 71.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.780 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. -0.00 min

Lab File: VL036525.D

Acq: 26 Mar 2021 22:29

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion: 95 Resp: 2083788

Ion Ratio Lower Upper

95 100

174 64.9 51.0 76.6

175 4.6 3.9 5.9

