

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082020\
 Data File : VL035486.D
 Acq On : 20 Aug 2020 22:25
 Operator : SY/AP
 Sample : L3743-02DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SSMP-2DL

Quant Time: Aug 21 06:02:47 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 17 19:28:30 2020
 QLast Update : Mon Aug 17 19:28:30 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1007848	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	4424469	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	4404152	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	3107965	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

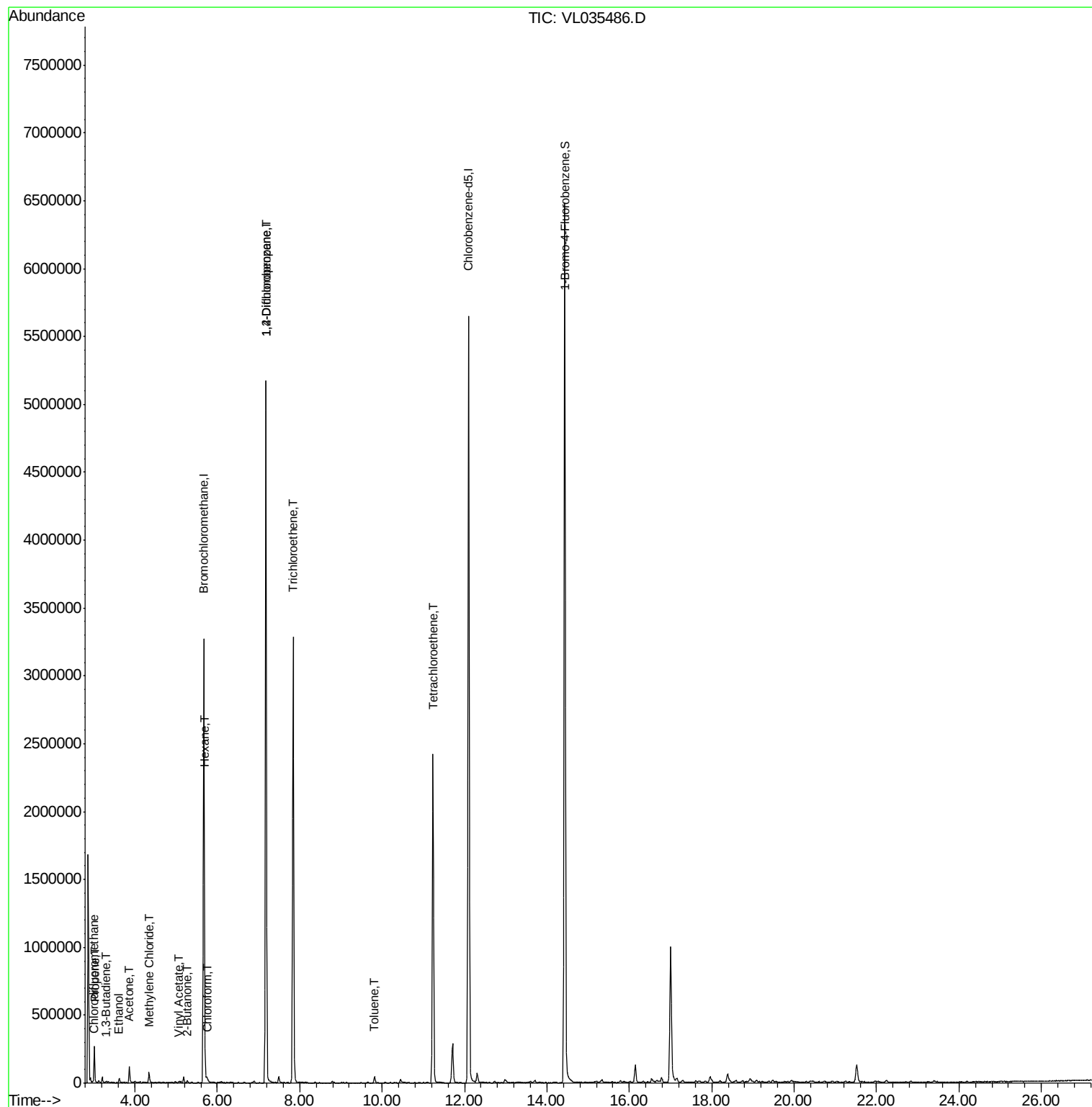
Target Compounds					Ovalue
3) Chlorodifluoromethane	2.99	51	10628	0.084 ppbv #	85
9) Propene	3.01	41	68253	1.344 ppbv #	76
13) Ethanol	3.61	45	11933	0.641 ppbv #	39
15) Acetone	3.86	43	104862	0.904 ppbv #	66
16) 1,3-Butadiene	3.30	39	3058	0.065 ppbv #	25
20) Methylene Chloride	4.34	84	33027	0.353 ppbv #	62
23) Vinyl Acetate	5.07	43	6827	0.041 ppbv #	66
26) Hexane	5.69	57	13300	0.104 ppbv #	38
29) Chloroform	5.75	83	18121	0.071 ppbv #	98
34) 2-Butanone	5.27	43	16384	0.111 ppbv #	69
38) Trichloroethene	7.84	130	1200231	6.644 ppbv #	82
39) 1,2-Dichloropropane	7.18	63	778565	7.275 ppbv #	23
52) Tetrachloroethene	11.24	164	730218	3.687 ppbv #	84
53) Toluene	9.81	91	21848	0.052 ppbv #	20

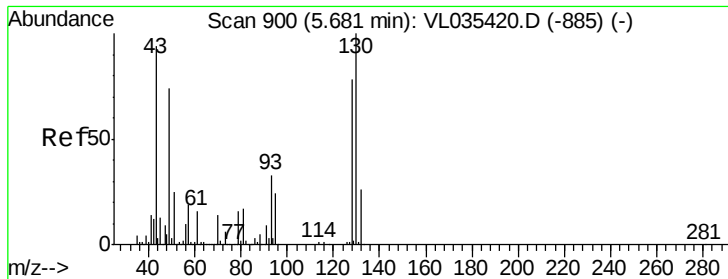
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 21 06:02:47 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Aug 17 19:28:30 2020
QLast Update : Mon Aug 17 19:28:30 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL035486.D

Acq: 20 Aug 2020 22:25

Instrument :

MSVOA_L

ClientSampleId :

SSMP-2DL

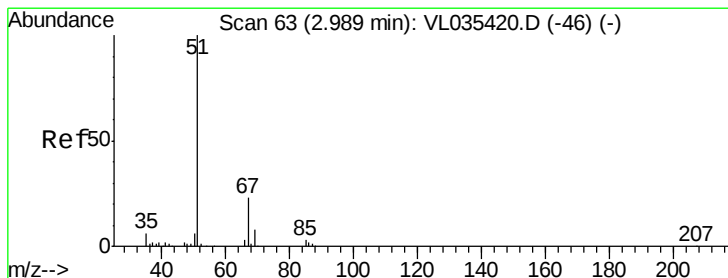
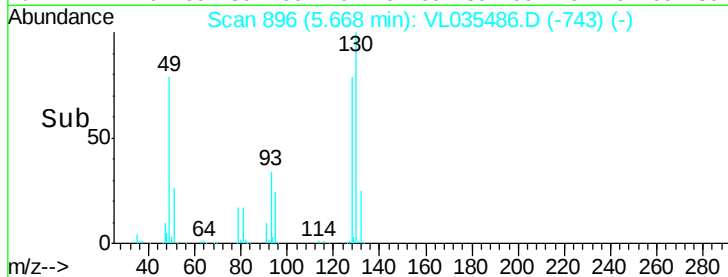
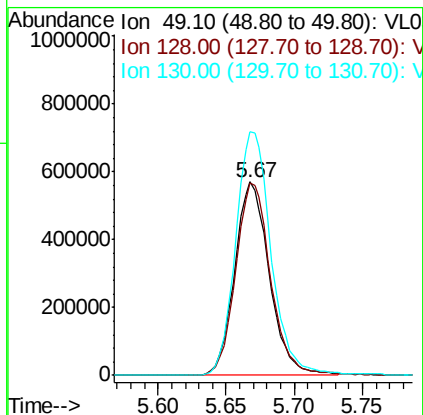
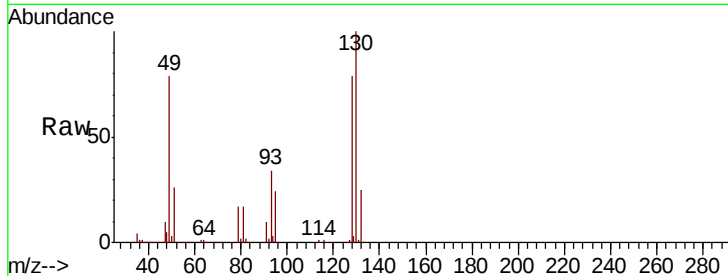
Tot Ion: 49 Resp: 1007848

Ion Ratio Lower Upper

49 100

128 101.4 20.9 62.7#

130 129.6 26.7 80.1#



#3

Chlorodifluoromethane

Concen: 0.084 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL035486.D

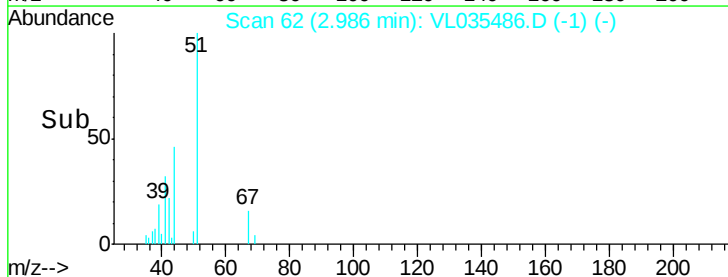
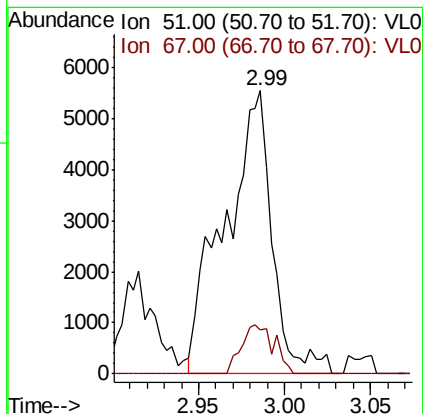
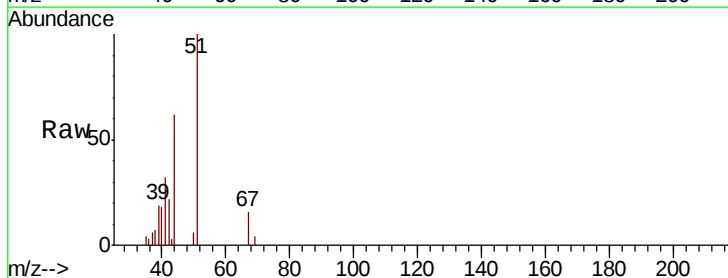
Acq: 20 Aug 2020 22:25

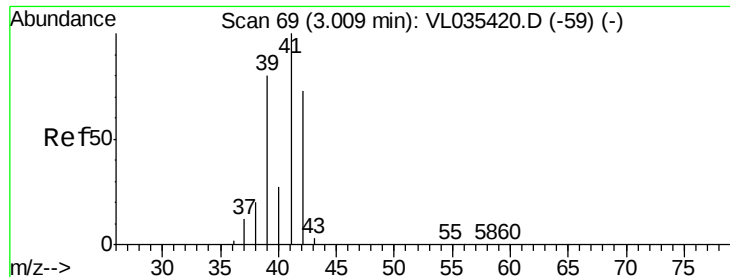
Tgt Ion: 51 Resp: 10628

Ion Ratio Lower Upper

51 100

67 12.0 15.0 22.6#





#9

Propene

Concen: 1.344 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL035486.D

Acq: 20 Aug 2020 22:25

Instrument :

MSVOA_L

ClientSampleId :

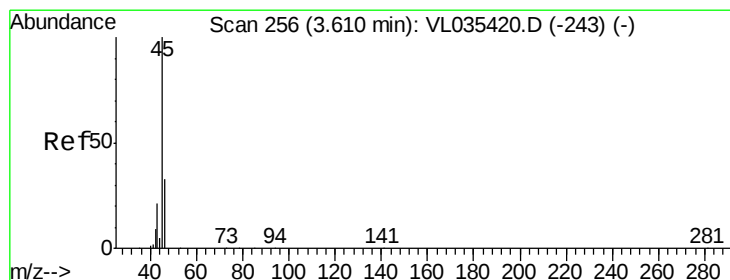
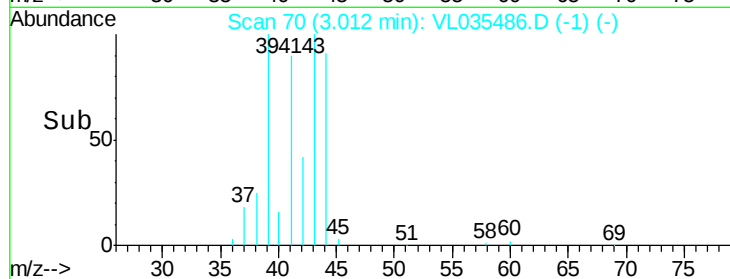
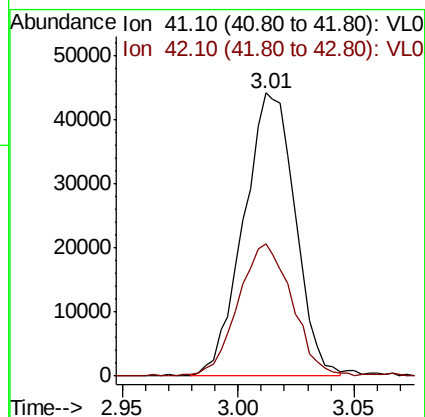
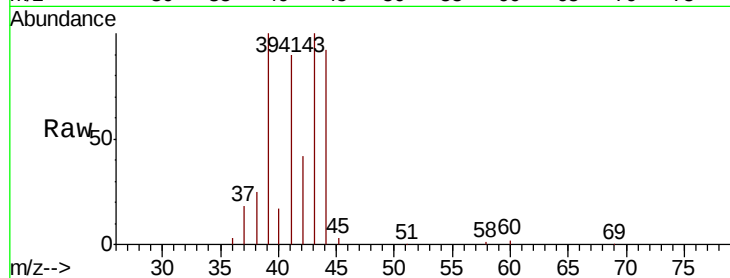
SSMP-2DL

Tot Ion: 41 Resp: 68253

Ion Ratio Lower Upper

41 100

42 49.5 55.5 83.3#



#13

Ethanol

Concen: 0.641 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.01 min

Lab File: VL035486.D

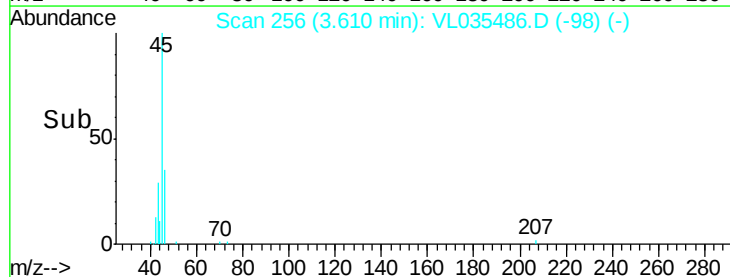
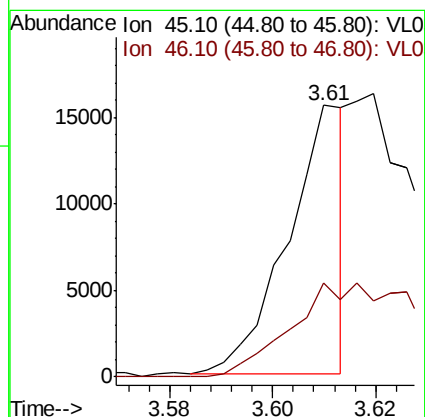
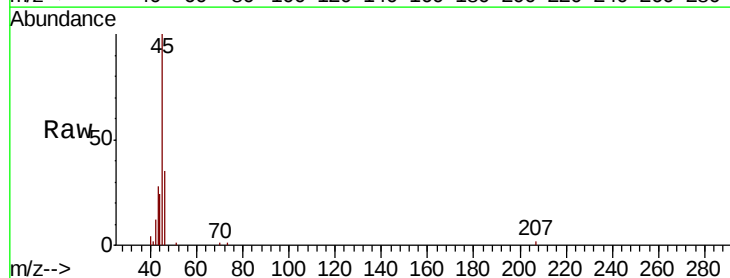
Acq: 20 Aug 2020 22:25

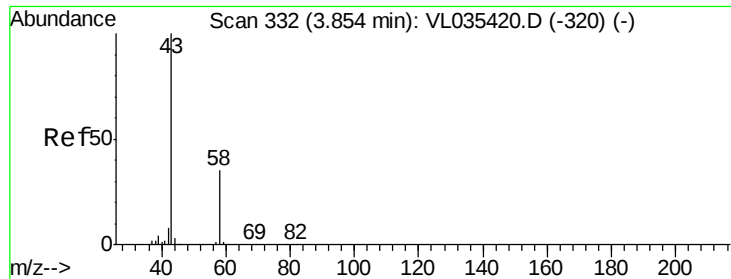
Tgt Ion: 45 Resp: 11933

Ion Ratio Lower Upper

45 100

46 0.0 14.2 56.6#

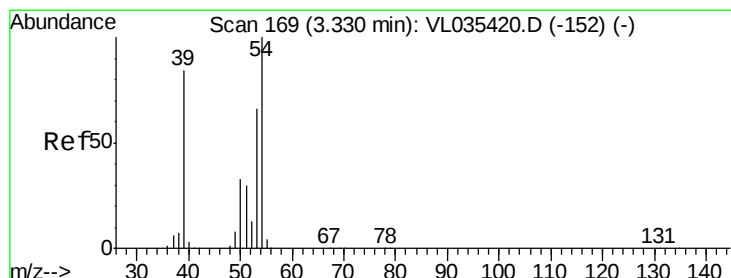
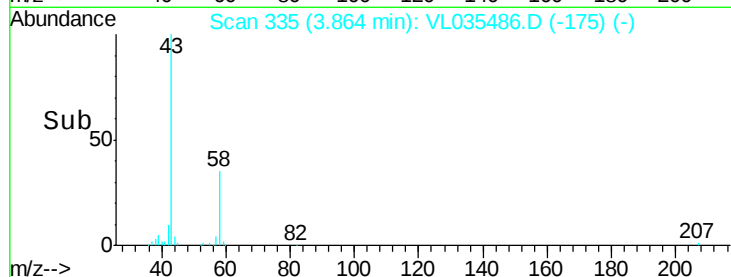
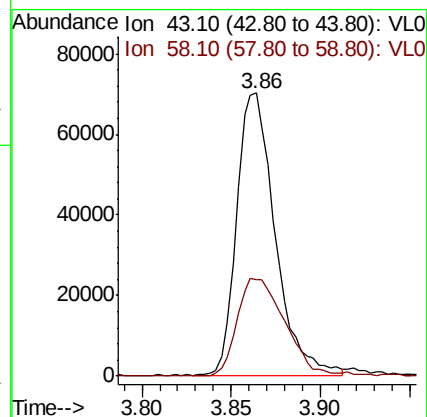
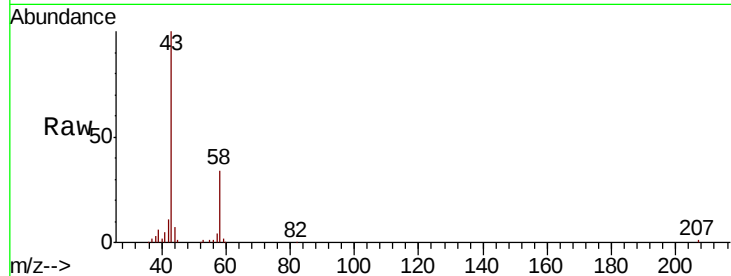




#15
Acetone
Concen: 0.904 ppbv
RT: 3.86 min Scan# 335
Delta R.T. 0.02 min
Lab File: VL035486.D
Acq: 20 Aug 2020 22:25

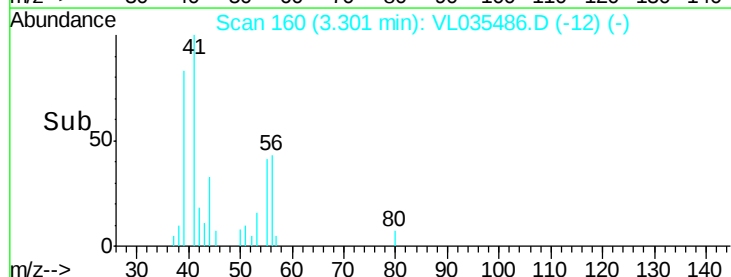
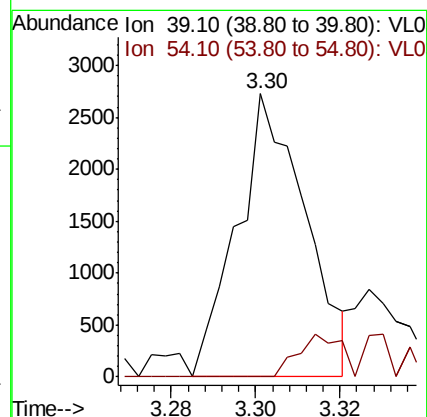
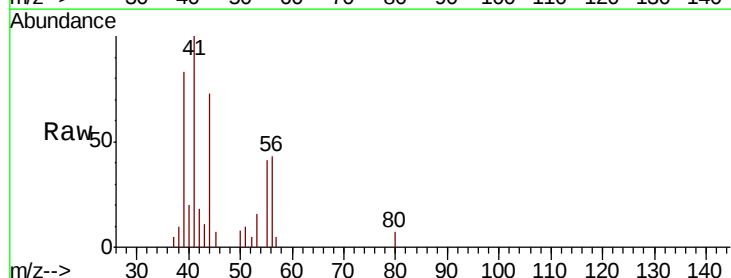
Instrument :
MSVOA_L
ClientSampleId :
SSMP-2DL

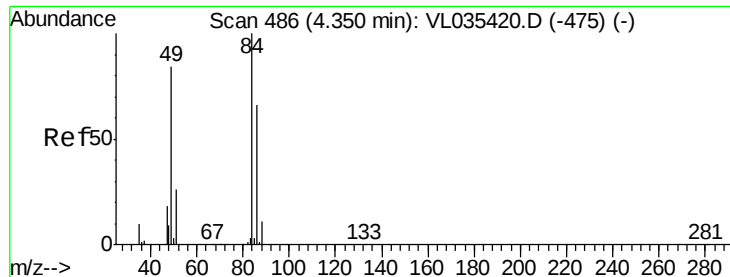
Tot Ion: 43 Resp: 104862
Ion Ratio Lower Upper
43 100
58 43.9 21.0 31.6#



#16
1,3-Butadiene
Concen: 0.065 ppbv
RT: 3.30 min Scan# 160
Delta R.T. -0.02 min
Lab File: VL035486.D
Acq: 20 Aug 2020 22:25

Tgt Ion: 39 Resp: 3058
Ion Ratio Lower Upper
39 100
54 14.5 64.4 96.6#





#20

Methylene Chloride

Concen: 0.353 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL035486.D

Acq: 20 Aug 2020 22:25

Instrument :

MSVOA_L

ClientSampleId :

SSMP-2DL

Tot Ion: 84 Resp: 33027

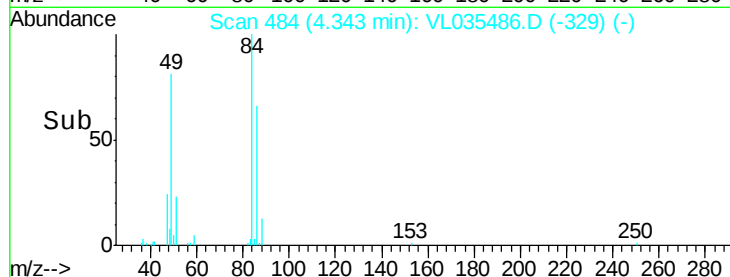
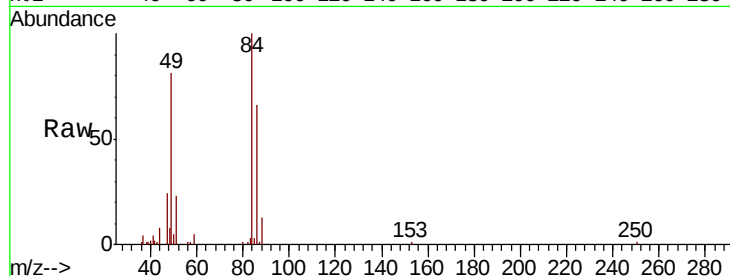
Ion Ratio Lower Upper

84 100

49 80.9 118.6 177.8#

51 22.6 36.4 54.6#

86 65.7 50.2 75.4

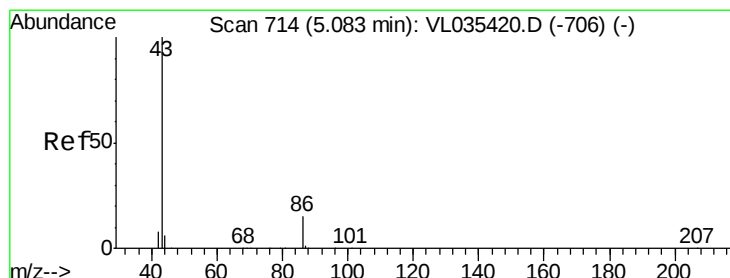
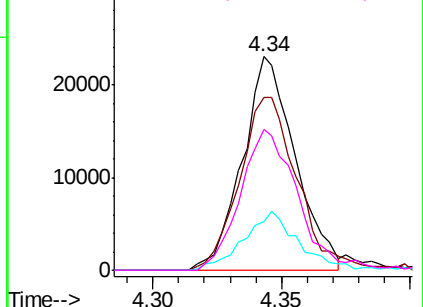


Abundance Ion 84.00 (83.70 to 84.70): VL0

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



#23

Vinyl Acetate

Concen: 0.041 ppbv

RT: 5.07 min Scan# 711

Delta R.T. -0.01 min

Lab File: VL035486.D

Acq: 20 Aug 2020 22:25

Tgt Ion: 43 Resp: 6827

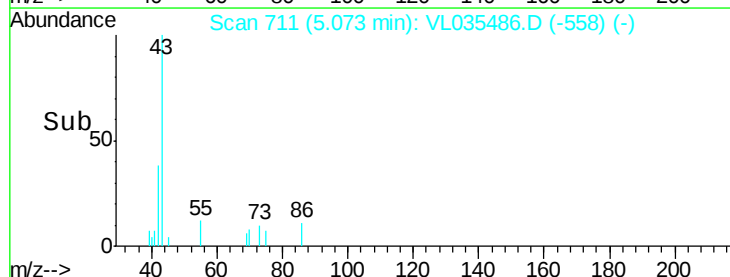
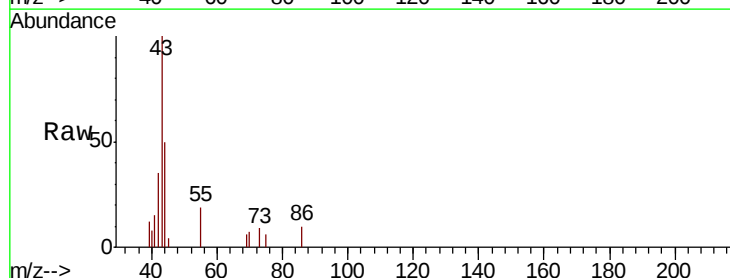
Ion Ratio Lower Upper

43 100

86 10.7 6.5 9.7#

42 32.5 8.3 12.5#

44 12.5 4.0 6.0#

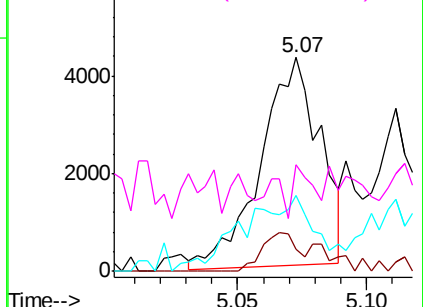


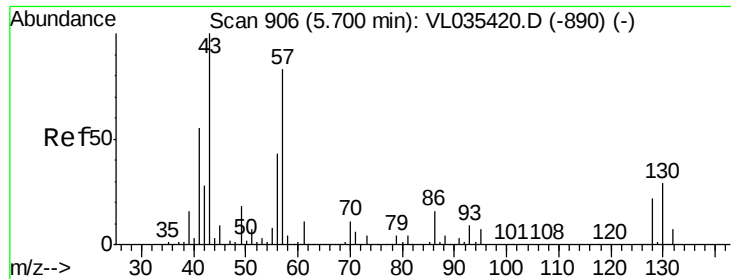
Abundance Ion 43.10 (42.80 to 43.80): VL0

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





#26

Hexane

Concen: 0.104 ppbv

RT: 5.69 min Scan# 903

Delta R.T. -0.00 min

Lab File: VL035486.D

Acq: 20 Aug 2020 22:25

Instrument :

MSVOA_L

ClientSampleId :

SSMP-2DL

Tot Ion: 57 Resp: 13300

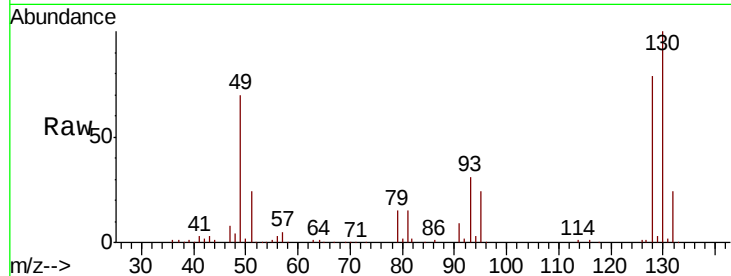
Ion Ratio Lower Upper

57 100

41 81.1 75.5 113.3

43 72.6 181.7 272.5#

56 59.1 42.4 63.6

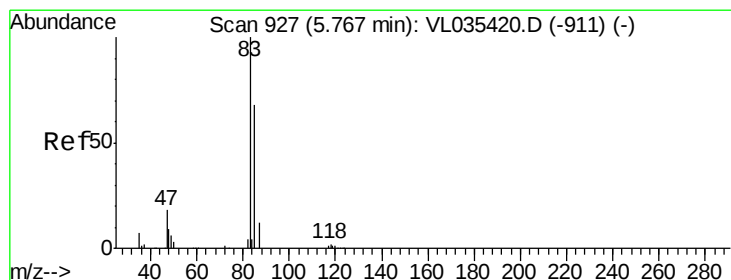
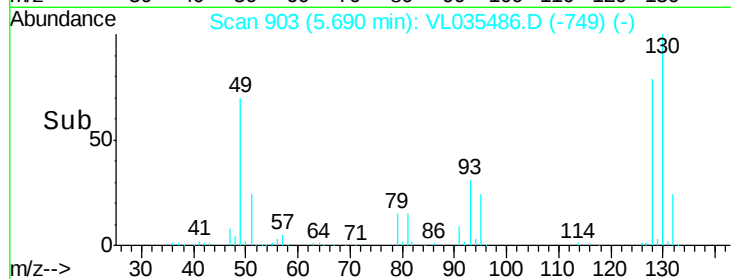
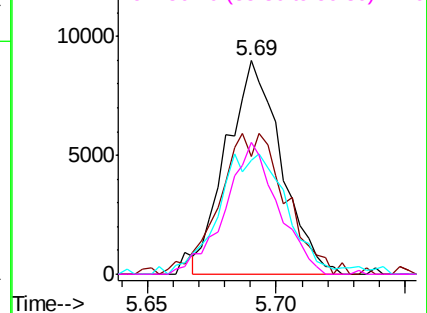


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#29

Chloroform

Concen: 0.071 ppbv

RT: 5.75 min Scan# 922

Delta R.T. -0.01 min

Lab File: VL035486.D

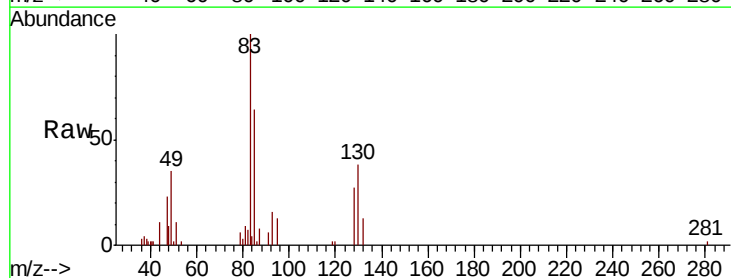
Acq: 20 Aug 2020 22:25

Tgt Ion: 83 Resp: 18121

Ion Ratio Lower Upper

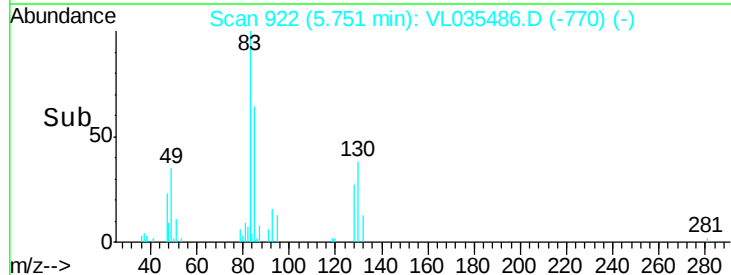
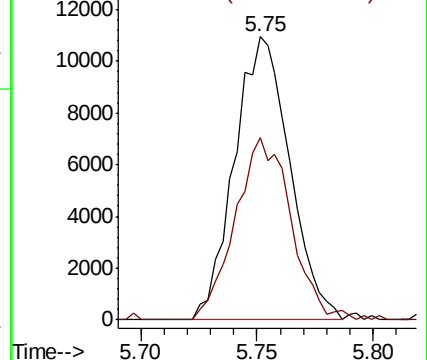
83 100

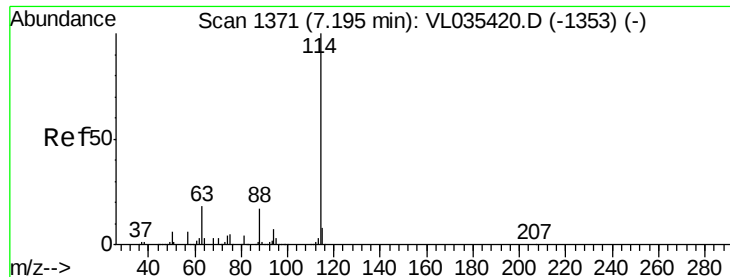
85 64.5 52.7 79.1



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

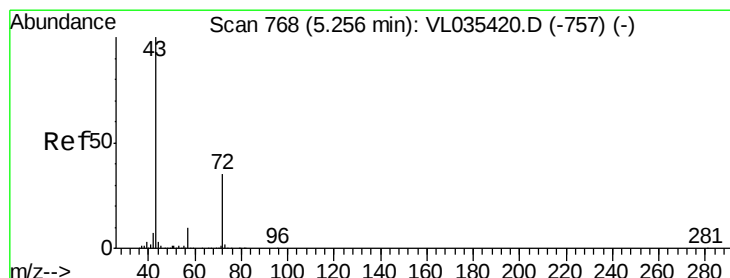
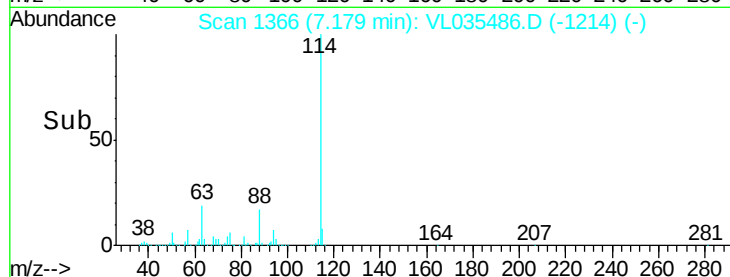
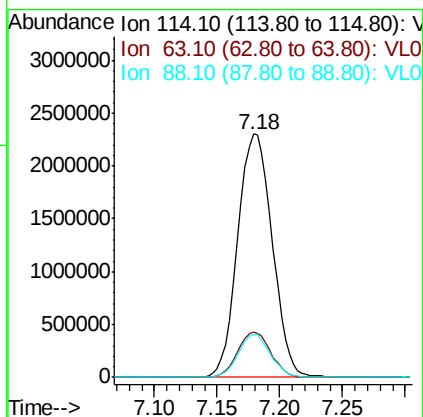
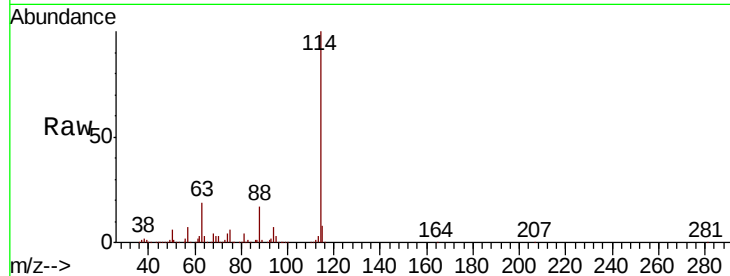




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. -0.01 min
 Lab File: VL035486.D
 Acq: 20 Aug 2020 22:25

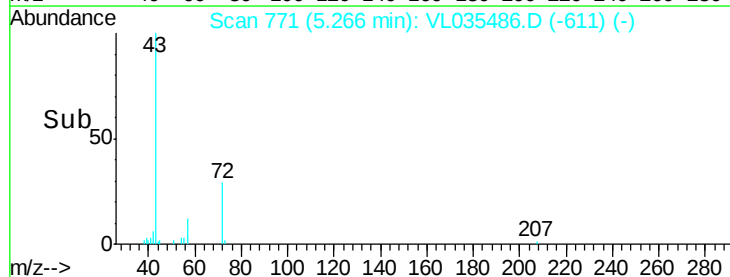
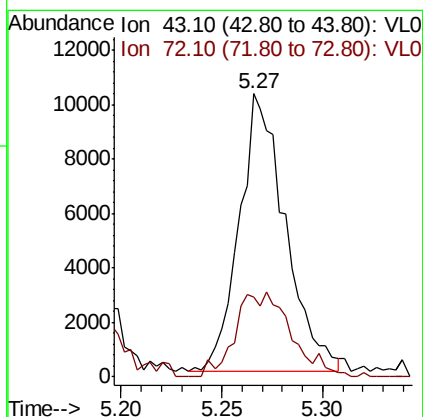
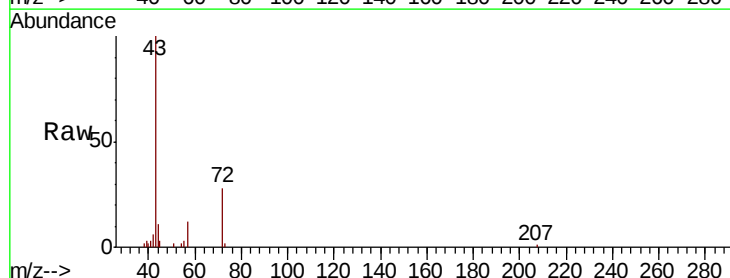
Instrument :
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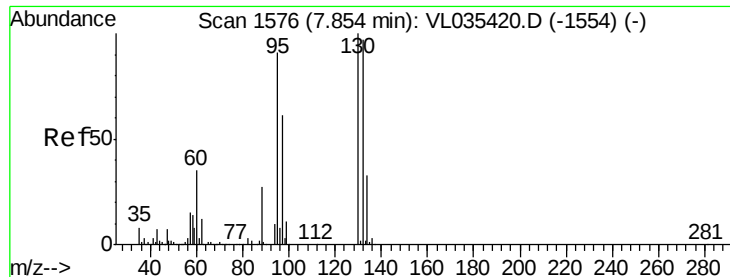
Tot Ion:114 Resp: 4424469
 Ion Ratio Lower Upper
 114 100
 63 17.7 23.1 34.7#
 88 16.5 15.9 23.9



#34
 2-Butanone
 Concen: 0.111 ppbv
 RT: 5.27 min Scan# 771
 Delta R.T. 0.02 min
 Lab File: VL035486.D
 Acq: 20 Aug 2020 22:25

Tgt Ion: 43 Resp: 16384
 Ion Ratio Lower Upper
 43 100
 72 36.8 17.6 26.4#





#38

Trichloroethene

Concen: 6.644 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. -0.01 min

Lab File: VL035486.D

Acq: 20 Aug 2020 22:25

Instrument :

MSVOA_L

ClientSampleId :

SSMP-2DL

Tot Ion:130 Resp: 1200231

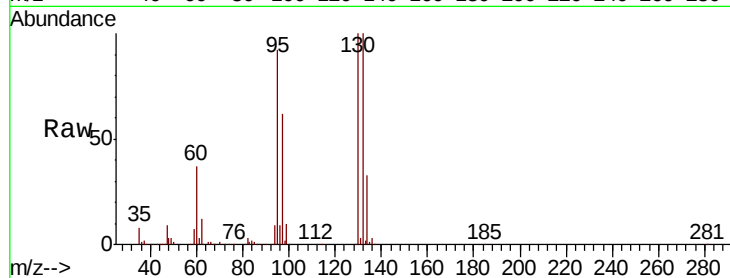
Ion Ratio Lower Upper

130 100

95 92.4 95.8 143.8#

132 100.2 74.3 111.5

97 61.8 62.6 94.0#

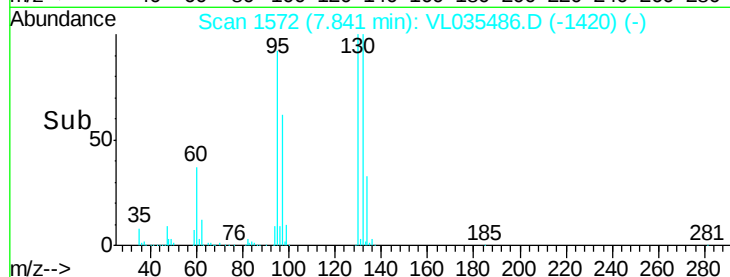


Abundance Ion 130.00 (129.70 to 130.70): V

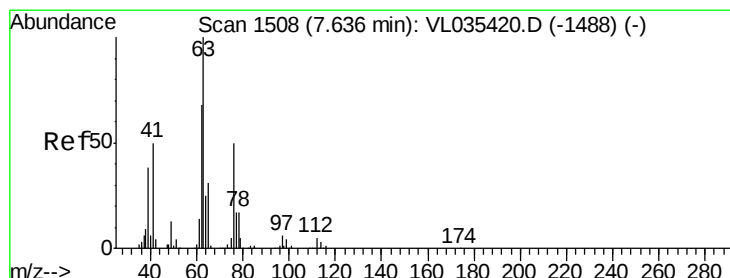
Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



Time-->



#39

1,2-Dichloropropane

Concen: 7.275 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. -0.45 min

Lab File: VL035486.D

Acq: 20 Aug 2020 22:25

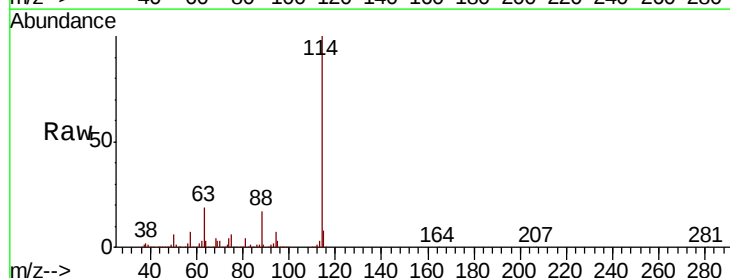
Tgt Ion: 63 Resp: 778565

Ion Ratio Lower Upper

63 100

41 0.0 61.1 91.7#

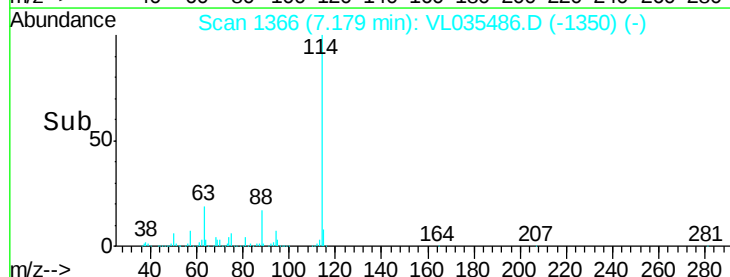
62 16.7 55.3 82.9#



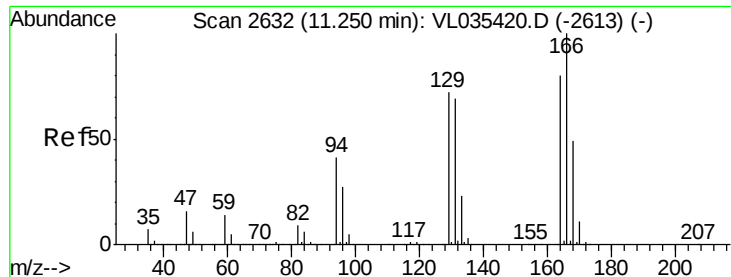
Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



Time-->



#52

Tetrachloroethene

Concen: 3.687 ppbv

RT: 11.24 min Scan# 2628

Delta R.T. -0.01 min

Lab File: VL035486.D

Acq: 20 Aug 2020 22:25

Instrument :

MSVOA_L

ClientSampleId :

SSMP-2DL

Tot Ion:164 Resp: 730218

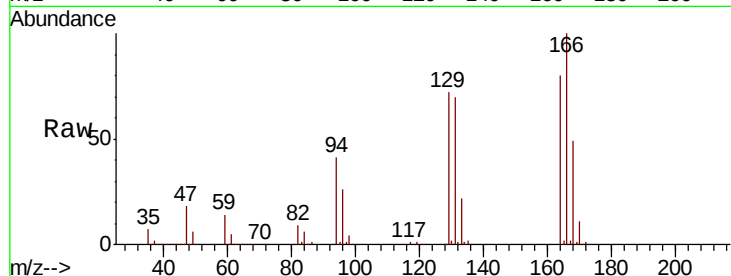
Ion Ratio Lower Upper

164 100

166 124.9 103.4 155.0

129 89.9 90.2 135.4#

131 87.0 91.7 137.5#

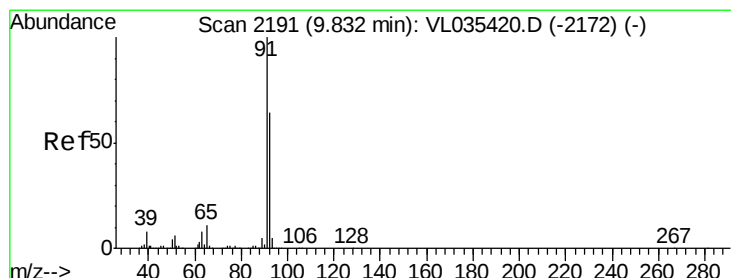
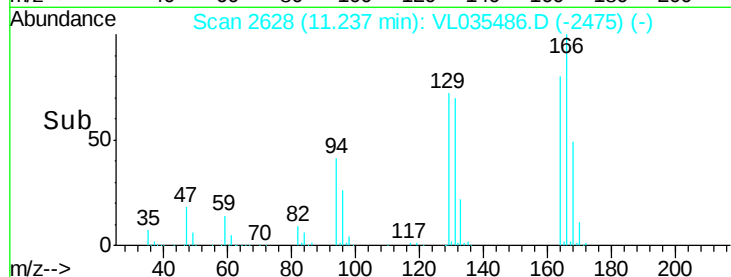
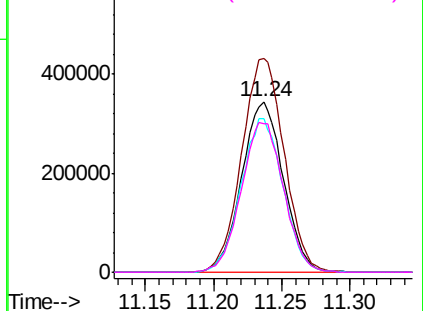


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.052 ppbv

RT: 9.81 min Scan# 2185

Delta R.T. -0.01 min

Lab File: VL035486.D

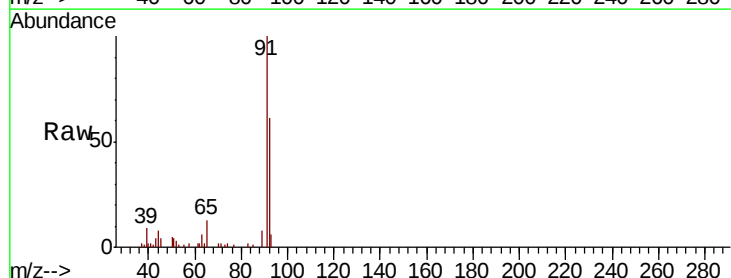
Acq: 20 Aug 2020 22:25

Tgt Ion: 91 Resp: 21848

Ion Ratio Lower Upper

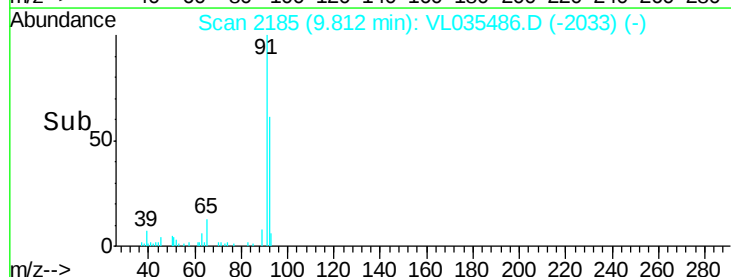
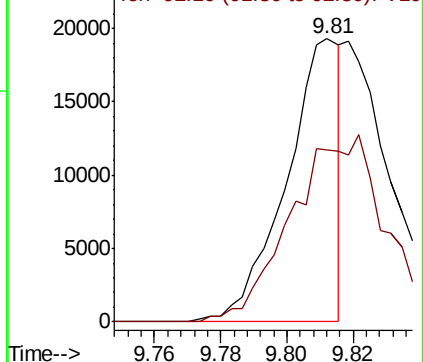
91 100

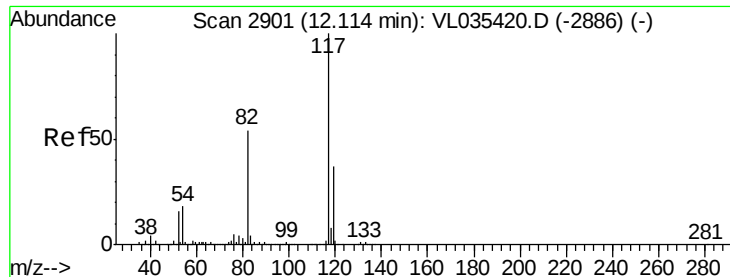
92 0.0 49.1 73.7#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

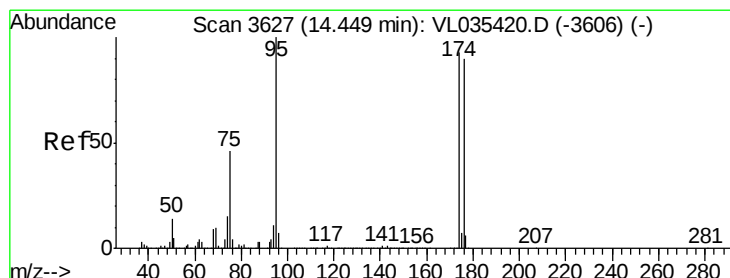
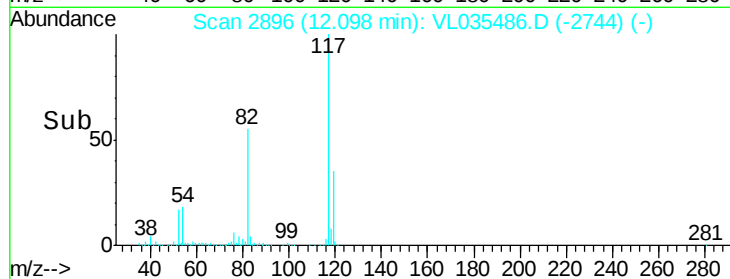
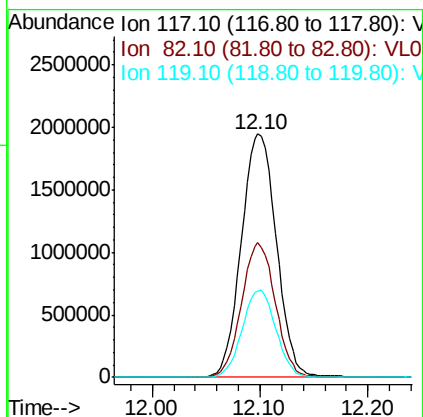
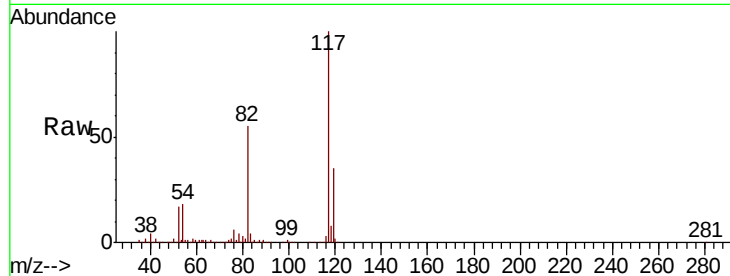




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2896
Delta R.T. -0.01 min
Lab File: VL035486.D
Acq: 20 Aug 2020 22:25

Instrument :
MSVOA_L
ClientSampleId :
SSMP-2DL

Tot Ion:117 Resp: 4404152
Ion Ratio Lower Upper
117 100
82 53.7 57.4 86.0#
119 34.6 28.4 42.6



#68
1-Bromo-4-Fluorobenzene
Concen: 10.080 ppbv
RT: 14.43 min Scan# 3622
Delta R.T. -0.01 min
Lab File: VL035486.D
Acq: 20 Aug 2020 22:25

Tgt Ion: 95 Resp: 3107965
Ion Ratio Lower Upper
95 100
174 92.1 44.0 66.0#
175 6.8 3.2 4.8#

