

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090820\
 Data File : VL035569.D
 Acq On : 8 Sep 2020 23:44
 Operator : SY/AP
 Sample : L3898-07DL2 400X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-5DL

Quant Time: Sep 09 02:38:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 06:46:28 2020
 QLast Update : Thu Aug 27 06:46:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1111613	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.17	114	4432170	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.09	117	4560821	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3381051	10.44	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.40%

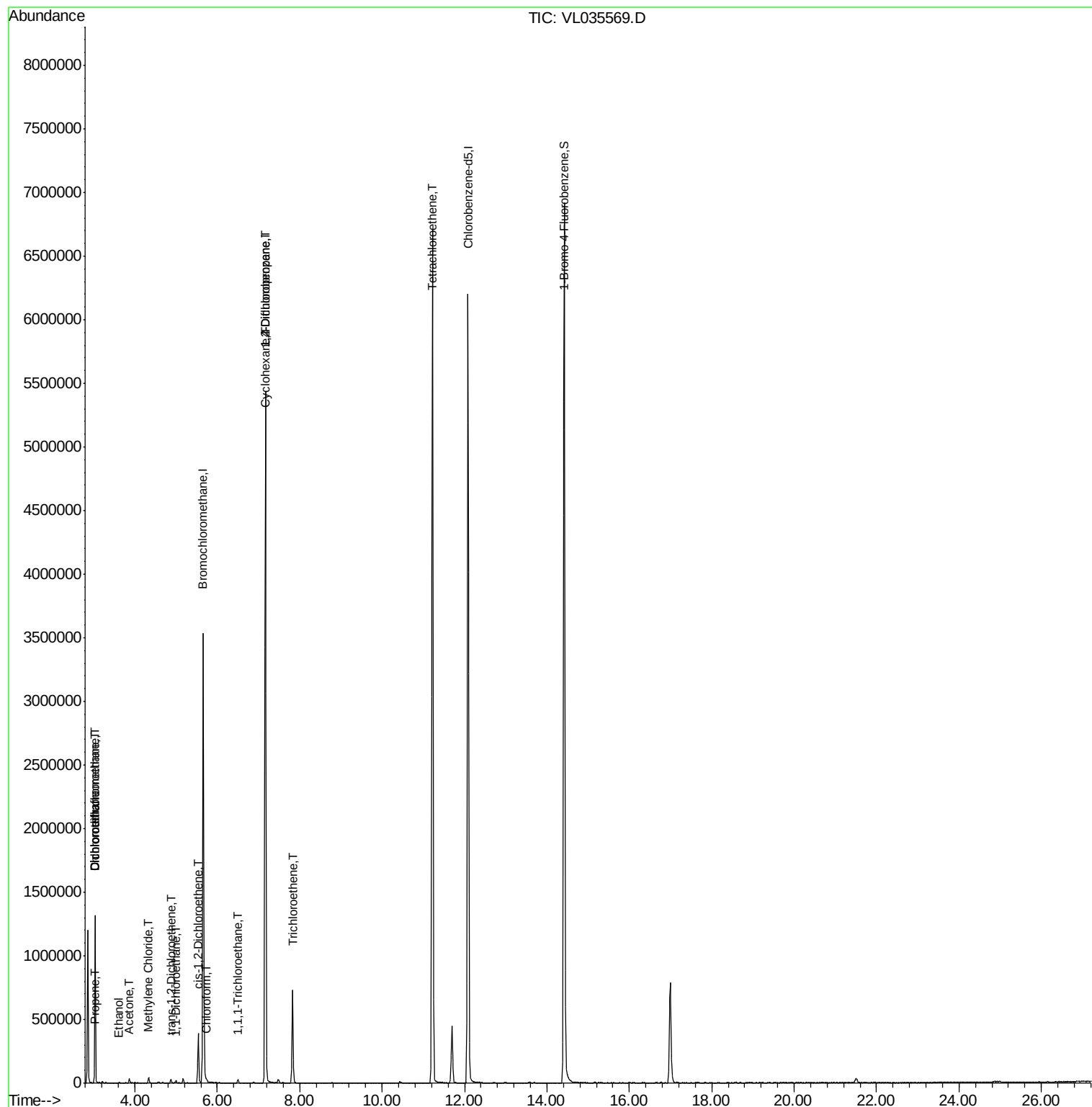
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	919133	4.771	ppbv	97
4) Chloromethane	3.03	50	85686	1.301	ppbv #	40
8) Dichlorotetrafluoroethane	3.03	85	919133	3.940	ppbv #	5
9) Propene	3.01	41	3442	0.073	ppbv #	56
13) Ethanol	3.61	45	3245	0.276	ppbv	99
15) Acetone	3.86	43	26073	0.213	ppbv #	62
20) Methylene Chloride	4.33	84	18531	0.203	ppbv	94
22) trans-1,2-Dichloroethene	4.87	96	10179	0.102	ppbv	94
24) 1,1-Dichloroethane	5.00	63	12158	0.075	ppbv	98
29) Chloroform	5.74	83	11971	0.048	ppbv #	82
30) Cyclohexane	7.15	84	9826	0.075	ppbv #	1
31) cis-1,2-Dichloroethene	5.54	61	185596	1.474	ppbv	94
32) 1,1,1-Trichloroethane	6.50	97	15982	0.066	ppbv	96
38) Trichloroethene	7.83	130	255690	1.534	ppbv	95
39) 1,2-Dichloropropane	7.17	63	826848	8.531	ppbv #	32
52) Tetrachloroethene	11.22	164	1915992	11.432	ppbv	97

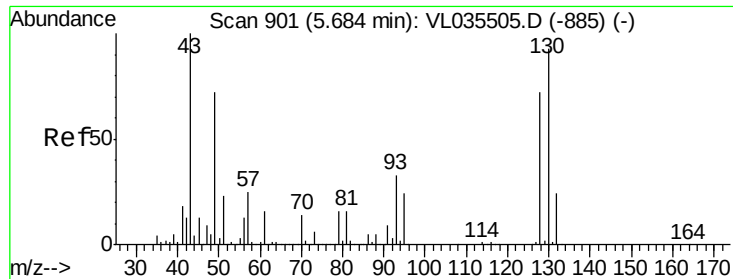
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 400ml/MSVOA L
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Instrument :
MSVOA_L
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Quant Time: Sep 09 02:38:53 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Aug 27 06:46:28 2020
QLast Update : Thu Aug 27 06:46:28 2020
Response via : Initial Calibration

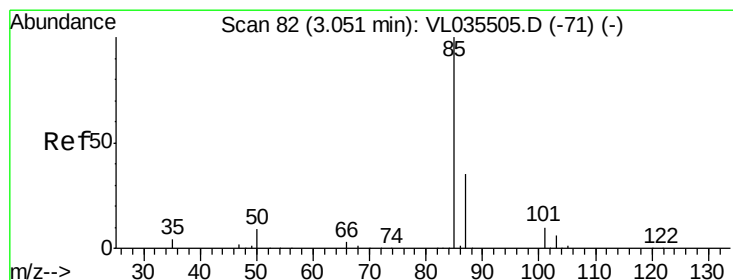
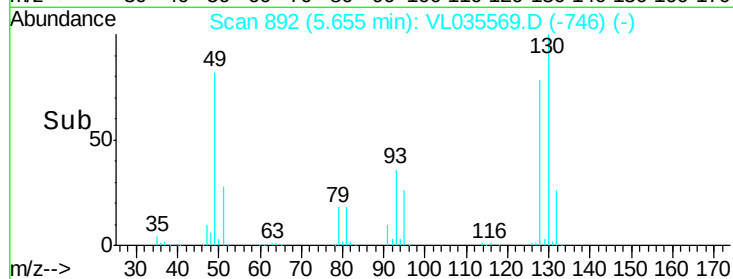
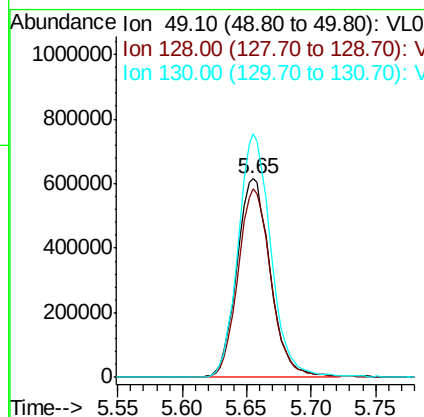
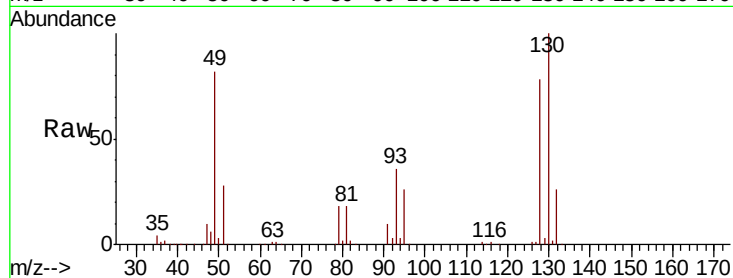




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.03 min
Lab File: VL035569.D
Acq: 8 Sep 2020 23:44

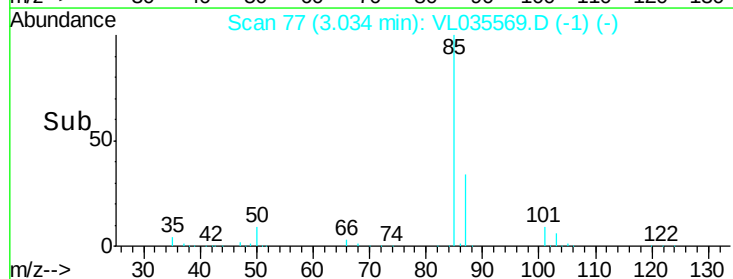
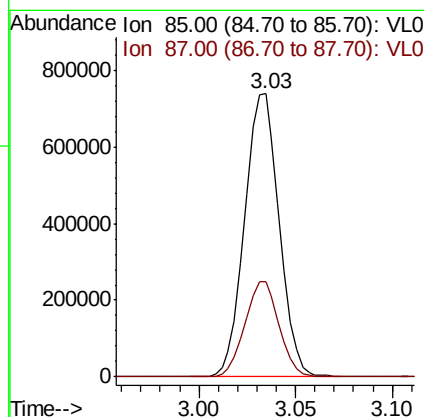
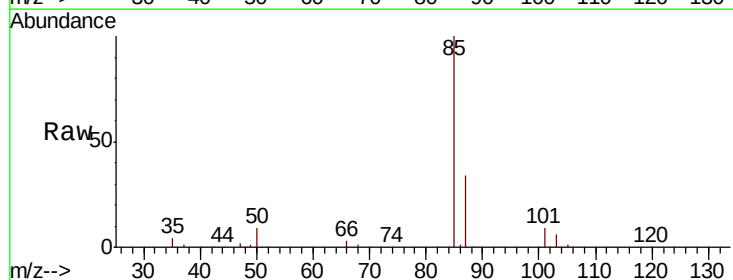
Instrument :
MSVOA_L
ClientSampleId :
SS-5DL

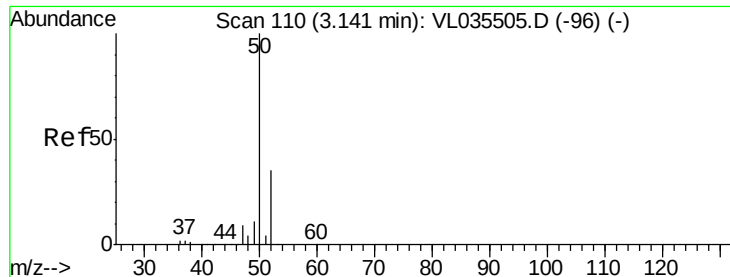
Tot Ion: 49 Resp: 1111613
Ion Ratio Lower Upper
49 100
128 94.3 50.0 150.1
130 120.8 64.4 193.2



#2
Dichlorodifluoromethane
Concen: 4.771 ppbv
RT: 3.03 min Scan# 77
Delta R.T. -0.02 min
Lab File: VL035569.D
Acq: 8 Sep 2020 23:44

Tgt Ion: 85 Resp: 919133
Ion Ratio Lower Upper
85 100
87 33.5 28.0 42.0





#4

Chloromethane

Concen: 1.301 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.11 min

Lab File: VL035569.D

Acq: 8 Sep 2020 23:44

Instrument :

MSVOA_L

ClientSampleId :

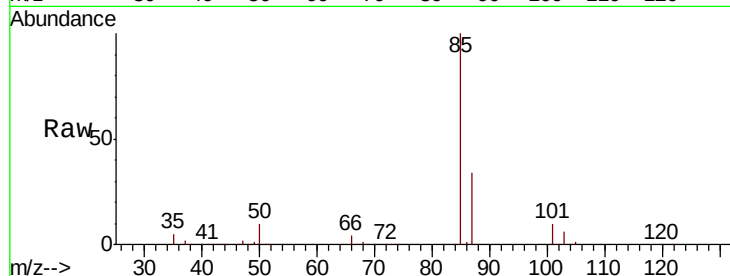
SS-5DL

Tot Ion: 50 Resp: 85686

Ion Ratio Lower Upper

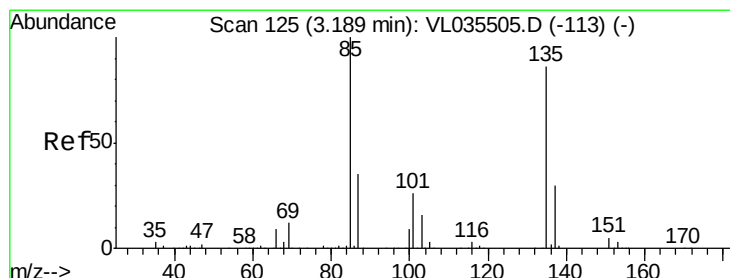
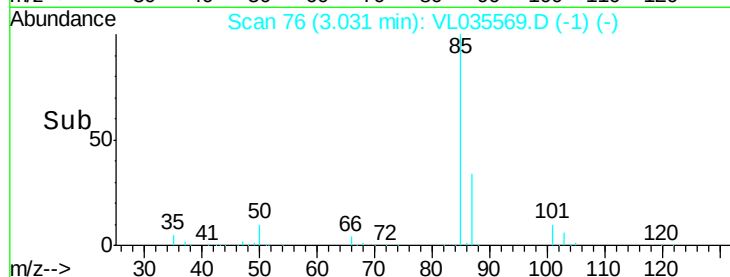
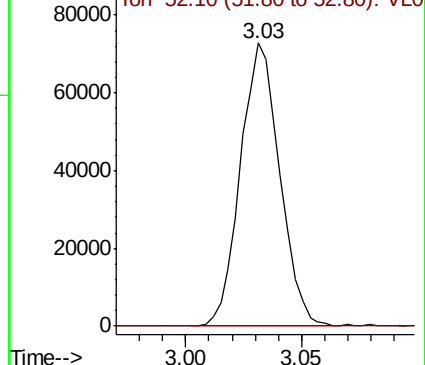
50 100

52 0.0 27.7 41.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 3.940 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.15 min

Lab File: VL035569.D

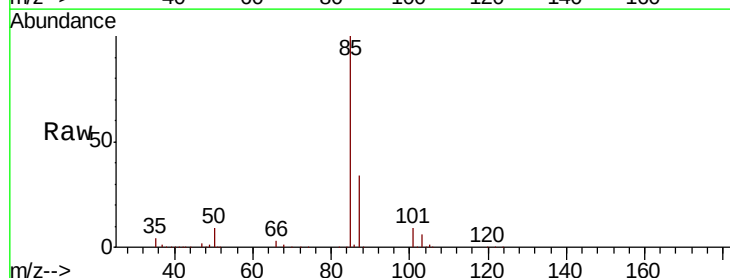
Acq: 8 Sep 2020 23:44

Tgt Ion: 85 Resp: 919133

Ion Ratio Lower Upper

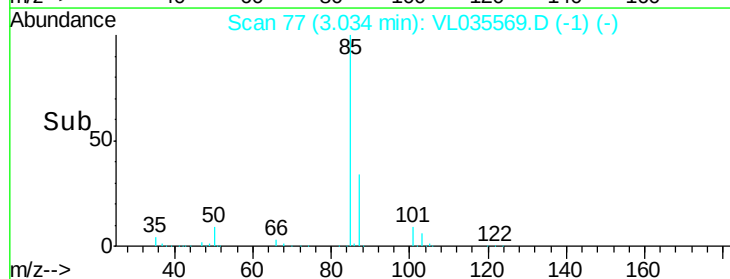
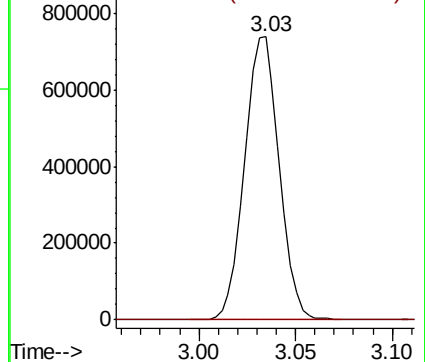
85 100

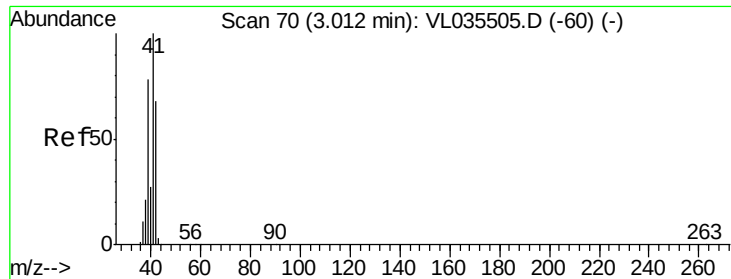
135 0.0 70.4 105.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.073 ppbv

RT: 3.01 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL035569.D

Acq: 8 Sep 2020 23:44

Instrument :

MSVOA_L

ClientSampleId :

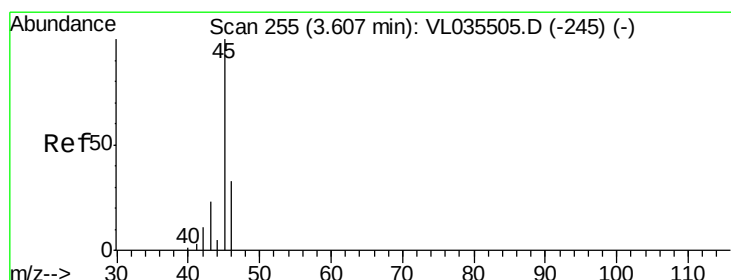
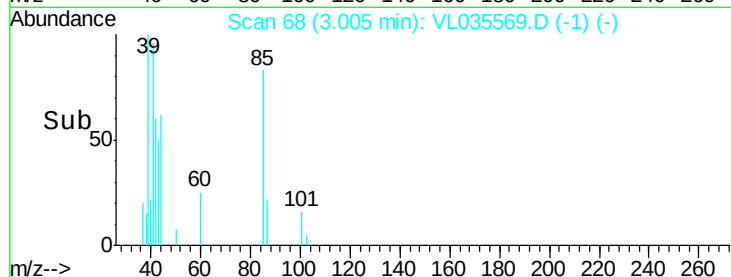
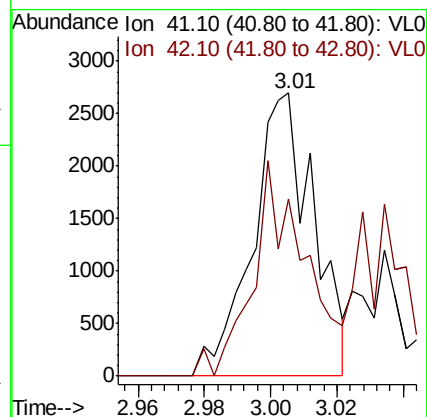
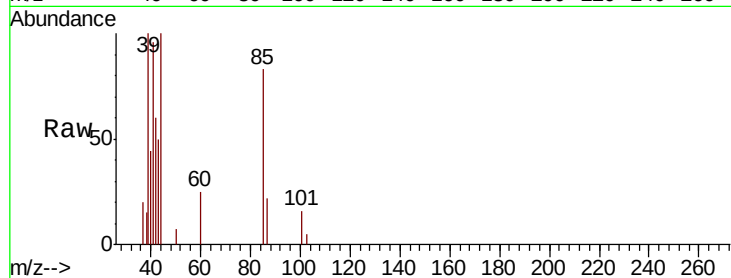
SS-5DL

Tot Ion: 41 Resp: 3442

Ion Ratio Lower Upper

41 100

42 107.0 56.3 84.5#



#13

Ethanol

Concen: 0.276 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL035569.D

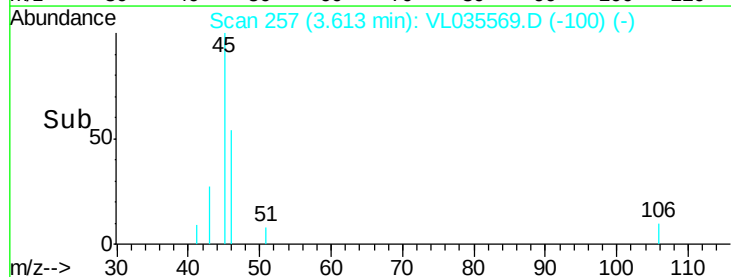
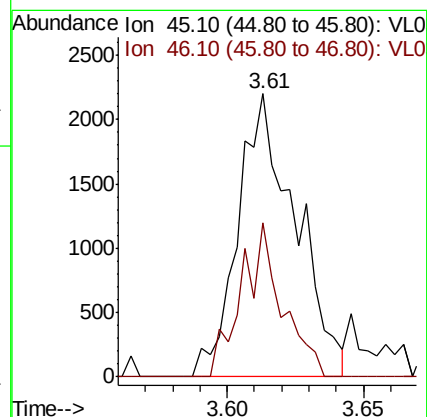
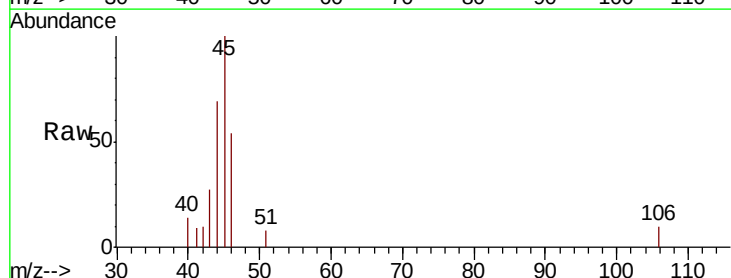
Acq: 8 Sep 2020 23:44

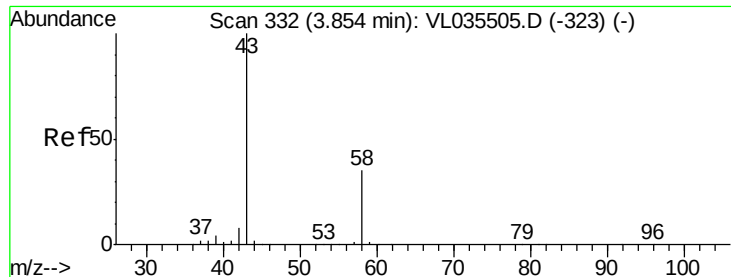
Tgt Ion: 45 Resp: 3245

Ion Ratio Lower Upper

45 100

46 38.4 15.2 60.6





#15

Acetone

Concen: 0.213 ppbv

RT: 3.86 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL035569.D

Acq: 8 Sep 2020 23:44

Instrument :

MSVOA_L

ClientSampled :

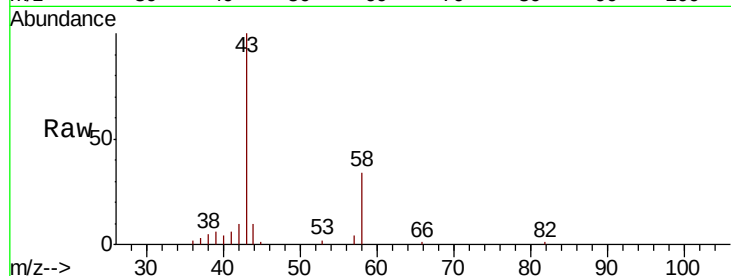
SS-5DL

Tot Ion: 43 Resp: 26073

Ion Ratio Lower Upper

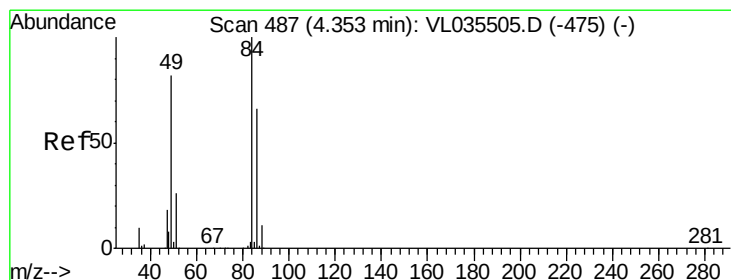
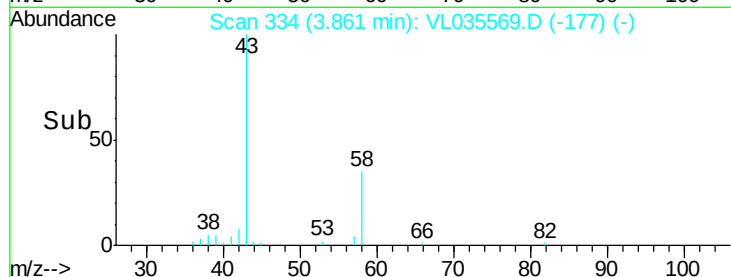
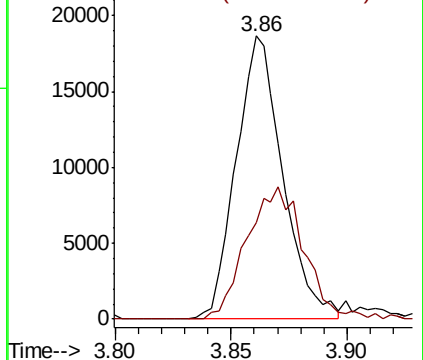
43 100

58 57.5 28.4 42.6#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.203 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.02 min

Lab File: VL035569.D

Acq: 8 Sep 2020 23:44

Tgt Ion: 84 Resp: 18531

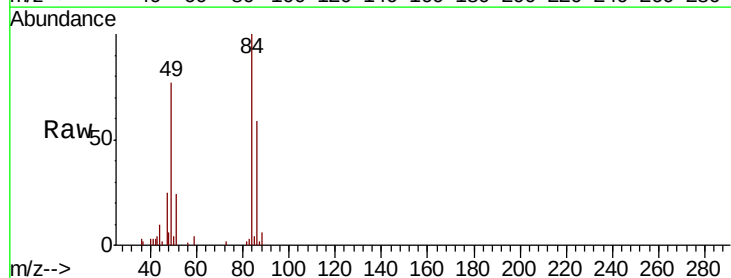
Ion Ratio Lower Upper

84 100

49 77.1 65.4 98.0

51 24.3 21.5 32.3

86 59.3 52.9 79.3

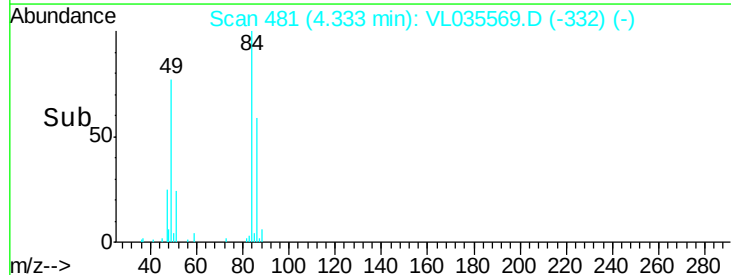
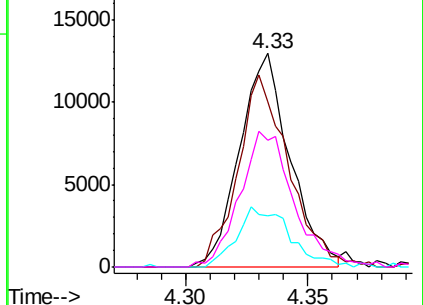


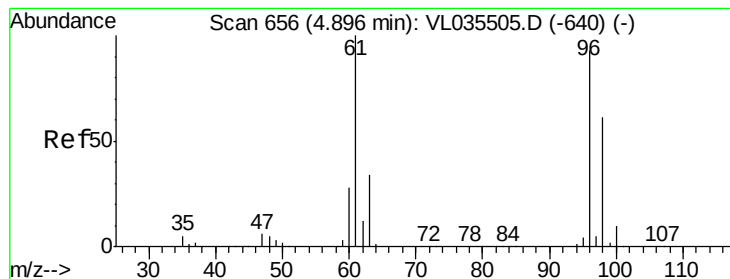
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#22

trans-1,2-Dichloroethene

Concen: 0.102 ppbv

RT: 4.87 min Scan# 649

Delta R.T. -0.02 min

Lab File: VL035569.D

Acq: 8 Sep 2020 23:44

Instrument :

MSVOA_L

ClientSampleId :

SS-5DL

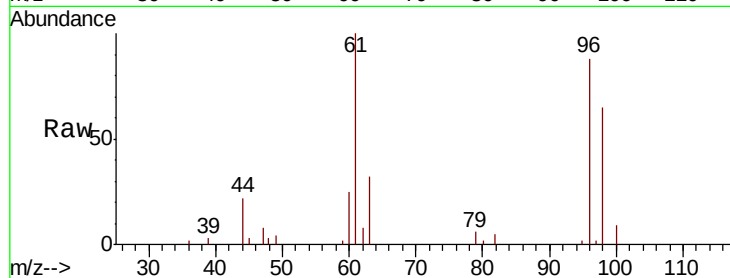
Tot Ion: 96 Resp: 10179

Ion Ratio Lower Upper

96 100

61 110.9 86.0 129.0

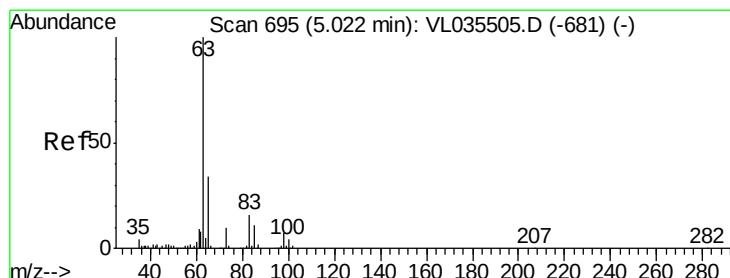
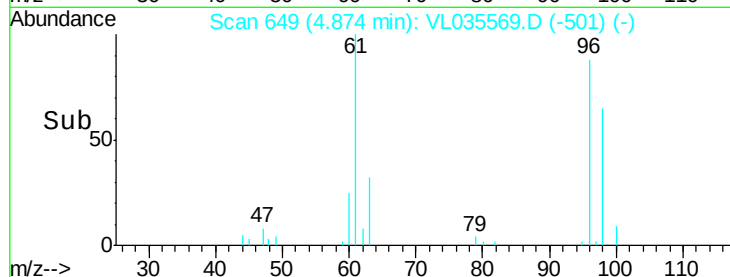
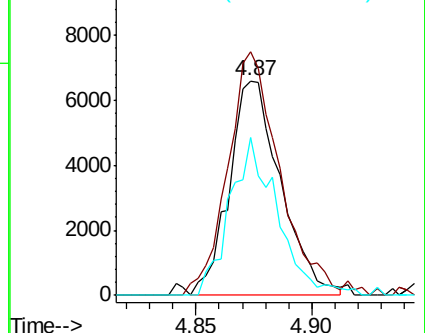
98 73.4 52.3 78.5



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#24

1,1-Dichloroethane

Concen: 0.075 ppbv

RT: 5.00 min Scan# 687

Delta R.T. -0.03 min

Lab File: VL035569.D

Acq: 8 Sep 2020 23:44

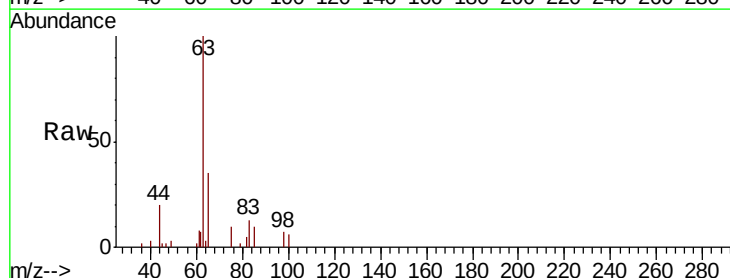
Tgt Ion: 63 Resp: 12158

Ion Ratio Lower Upper

63 100

98 6.9 3.4 10.1

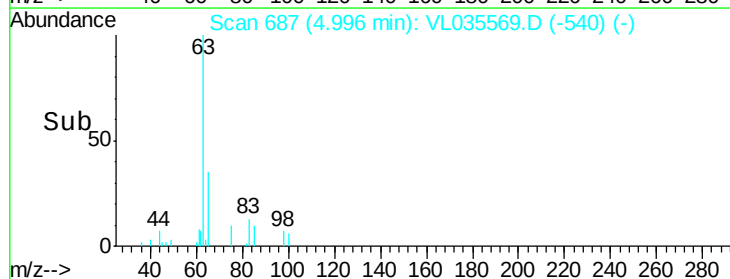
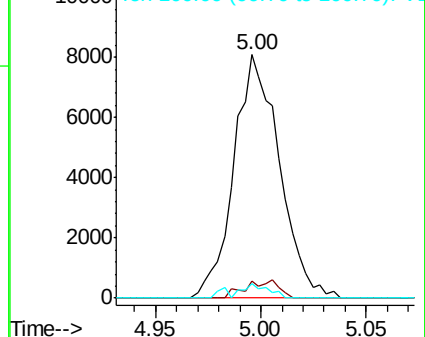
100 5.8 2.1 6.5

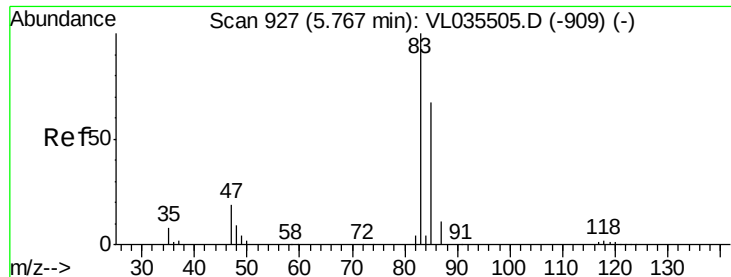


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

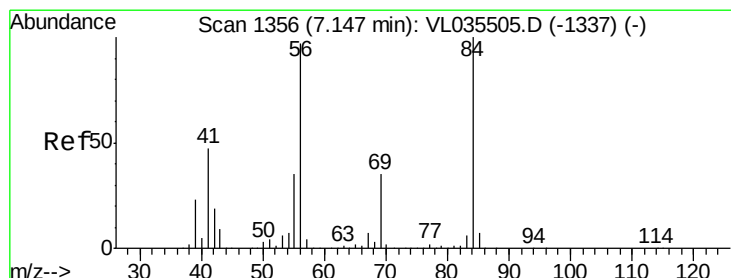
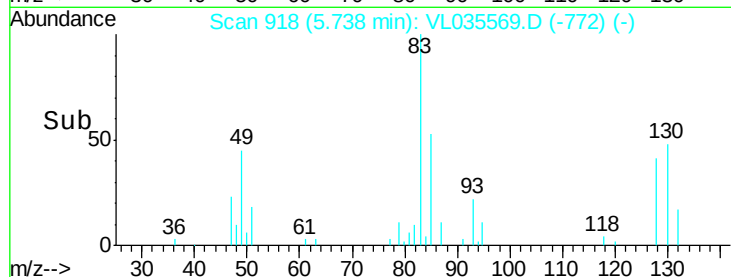
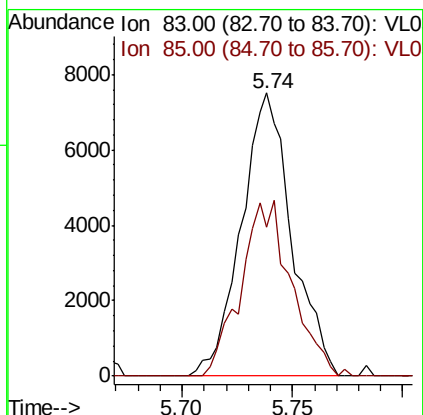
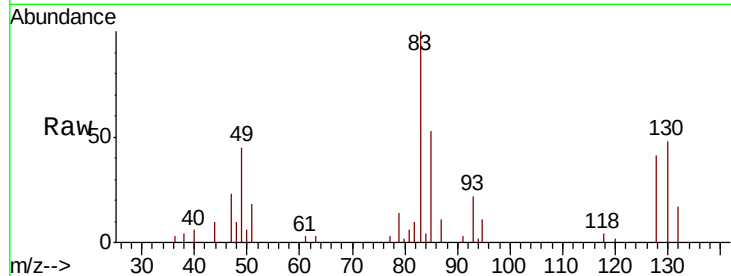




#29
Chloroform
Concen: 0.048 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.03 min
Lab File: VL035569.D
Acq: 8 Sep 2020 23:44

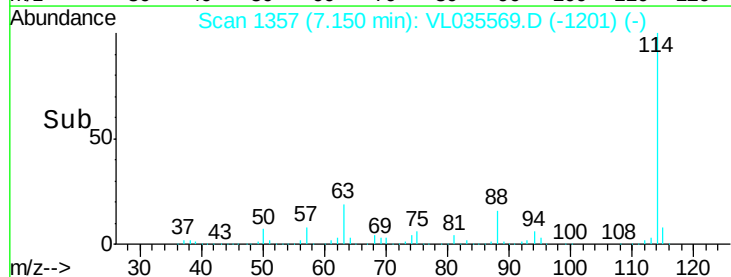
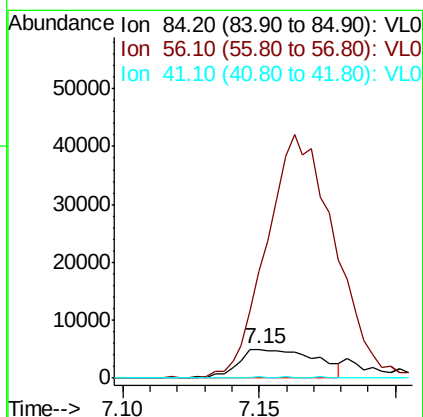
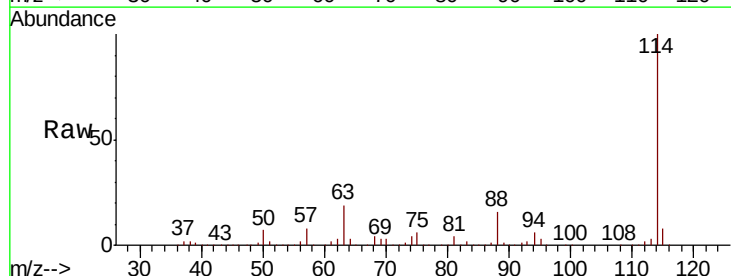
Instrument :
MSVOA_L
ClientSampled :
SS-5DL

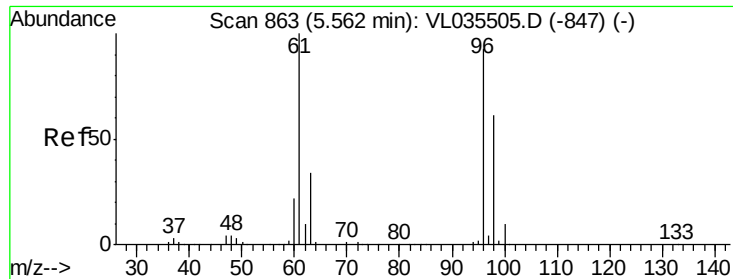
Tot Ion: 83 Resp: 11971
Ion Ratio Lower Upper
83 100
85 52.8 53.9 80.9#



#30
Cyclohexane
Concen: 0.075 ppbv
RT: 7.15 min Scan# 1357
Delta R.T. 0.00 min
Lab File: VL035569.D
Acq: 8 Sep 2020 23:44

Tgt Ion: 84 Resp: 9826
Ion Ratio Lower Upper
84 100
56 753.6 80.1 120.1#
41 0.0 38.1 57.1#





#31

cis-1,2-Dichloroethene

Concen: 1.474 ppbv

RT: 5.54 min Scan# 856

Delta R.T. -0.02 min

Lab File: VL035569.D

Acq: 8 Sep 2020 23:44

Instrument :

MSVOA_L

ClientSampled :

SS-5DL

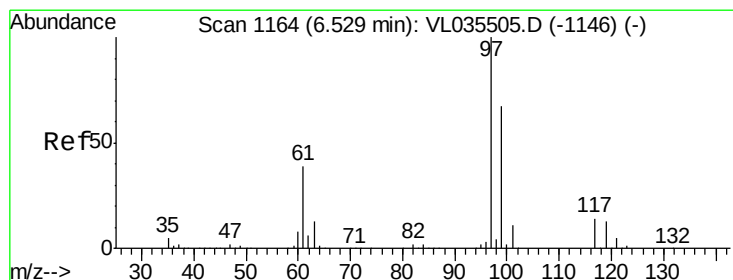
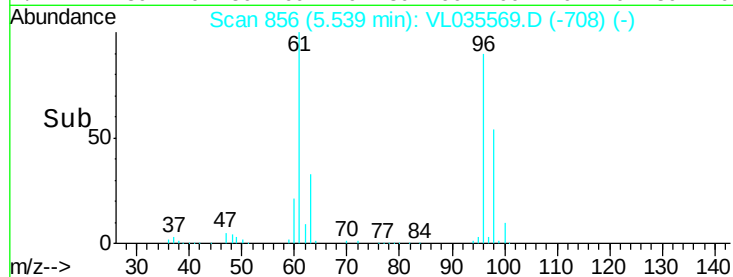
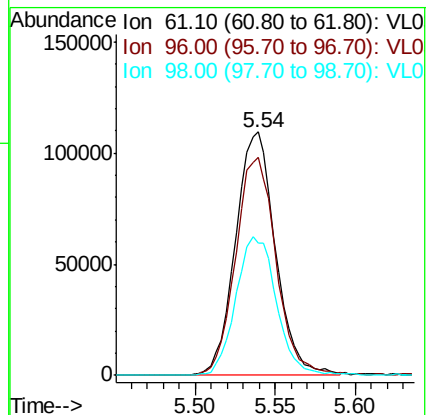
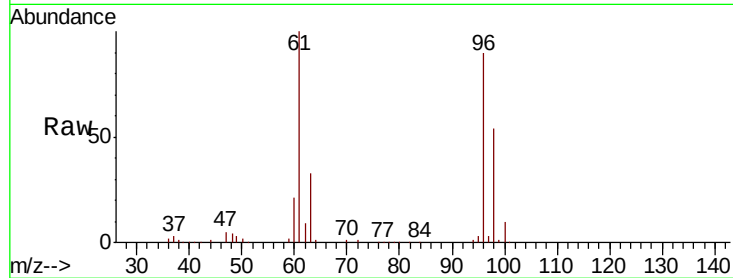
Tot Ion: 61 Resp: 185596

Ion Ratio Lower Upper

61 100

96 89.7 74.4 111.6

98 54.1 49.2 73.8



#32

1,1,1-Trichloroethane

Concen: 0.066 ppbv

RT: 6.50 min Scan# 1155

Delta R.T. -0.03 min

Lab File: VL035569.D

Acq: 8 Sep 2020 23:44

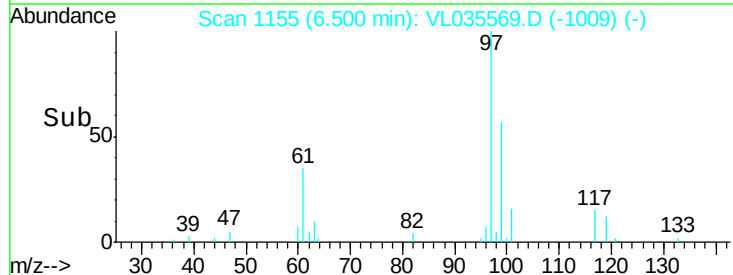
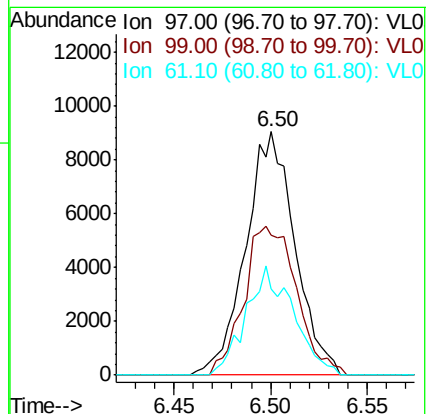
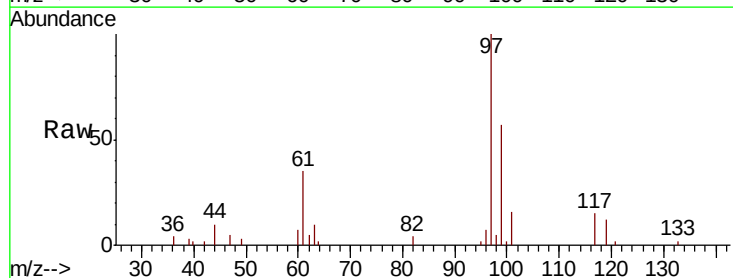
Tgt Ion: 97 Resp: 15982

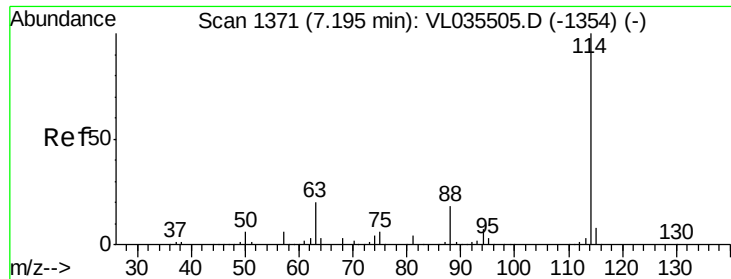
Ion Ratio Lower Upper

97 100

99 65.4 53.3 79.9

61 43.0 30.6 46.0

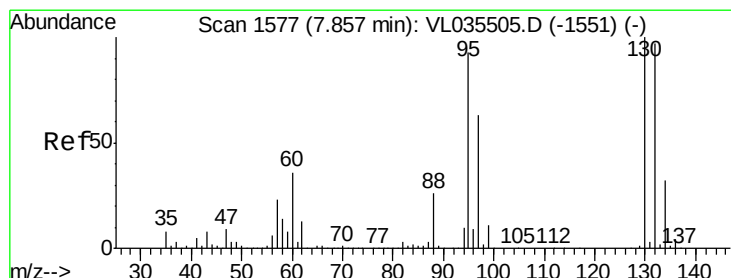
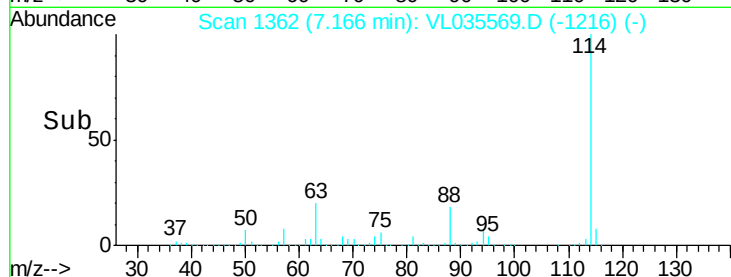
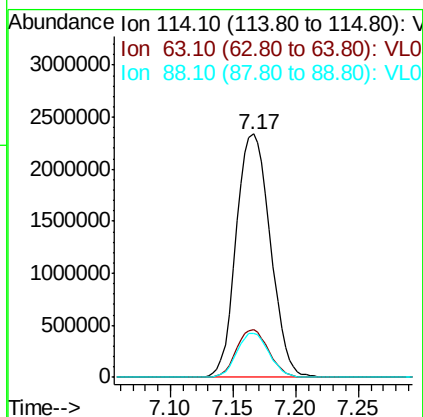
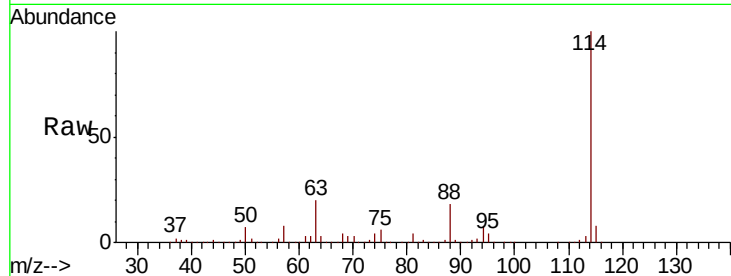




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.03 min
 Lab File: VL035569.D
 Acq: 8 Sep 2020 23:44

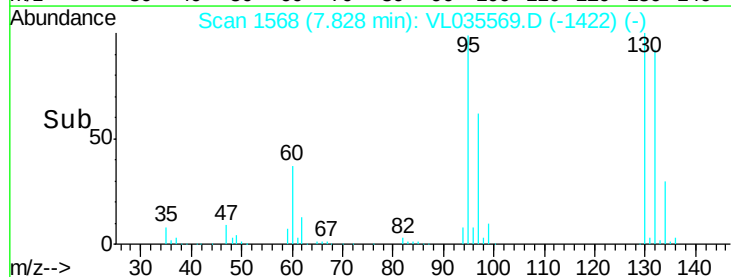
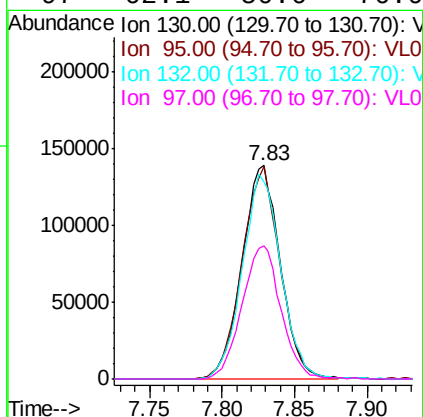
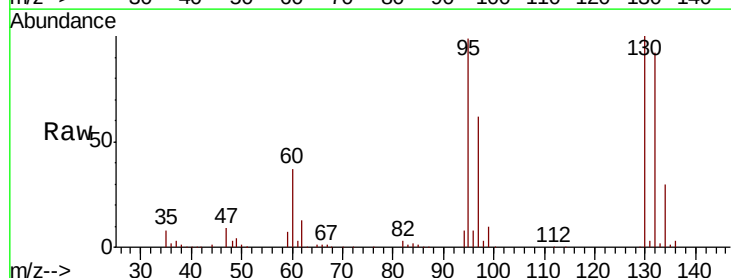
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-5DL

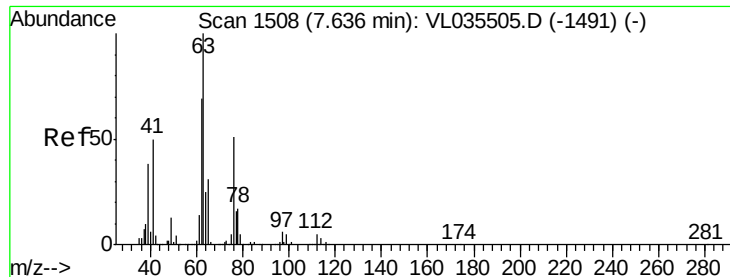
Tot Ion:114 Resp: 4432170
 Ion Ratio Lower Upper
 114 100
 63 18.8 14.7 22.1
 88 17.1 13.4 20.2



#38
 Trichloroethene
 Concen: 1.534 ppbv
 RT: 7.83 min Scan# 1568
 Delta R.T. -0.03 min
 Lab File: VL035569.D
 Acq: 8 Sep 2020 23:44

Tgt Ion:130 Resp: 255690
 Ion Ratio Lower Upper
 130 100
 95 99.5 74.6 112.0
 132 92.5 77.6 116.4
 97 62.1 50.6 76.0





#39

1,2-Dichloropropane

Concen: 8.531 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.47 min

Lab File: VL035569.D

Acq: 8 Sep 2020 23:44

Instrument :

MSVOA_L

ClientSampleId :

SS-5DL

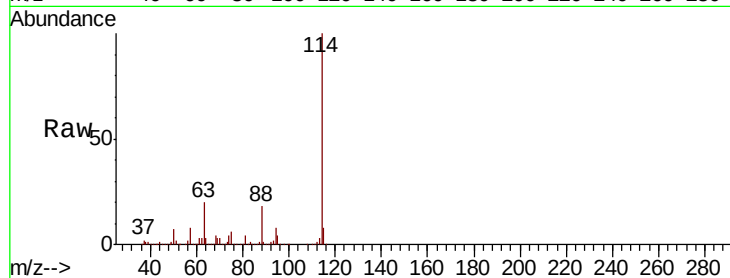
Tot Ion: 63 Resp: 826848

Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

62 16.8 55.4 83.0#

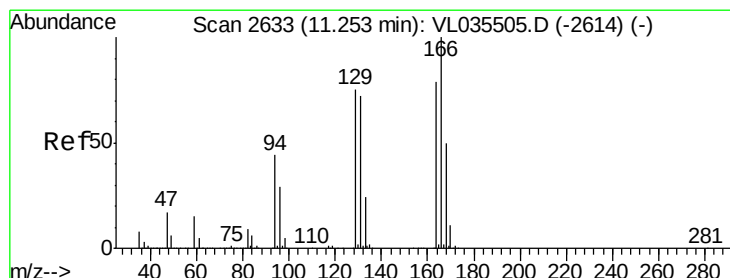
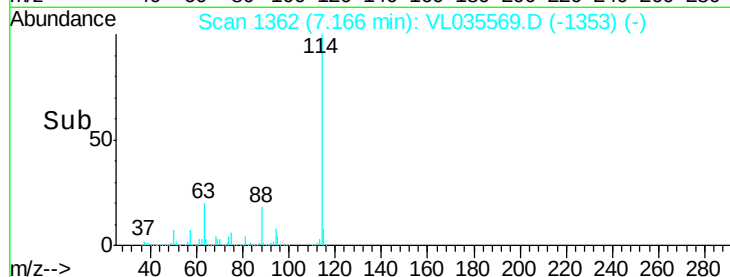
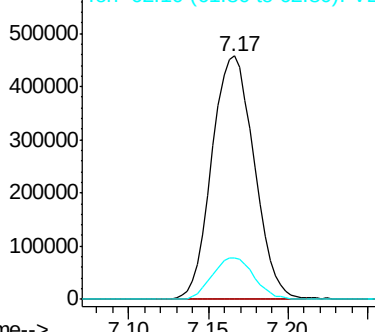


Abundance

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



#52

Tetrachloroethene

Concen: 11.432 ppbv

RT: 11.22 min Scan# 2623

Delta R.T. -0.03 min

Lab File: VL035569.D

Acq: 8 Sep 2020 23:44

Tgt Ion:164 Resp: 1915992

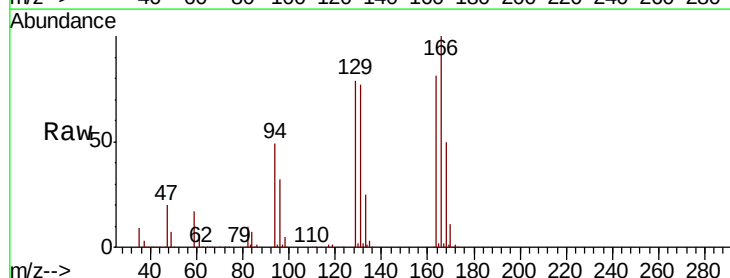
Ion Ratio Lower Upper

164 100

166 122.8 100.9 151.3

129 96.8 75.3 112.9

131 93.9 73.0 109.4



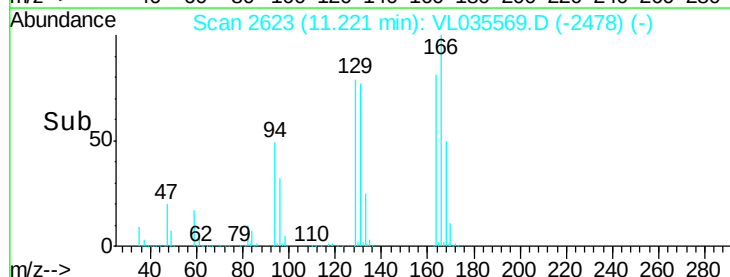
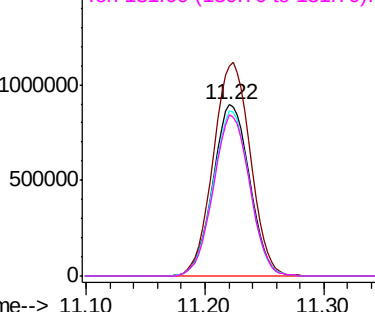
Abundance

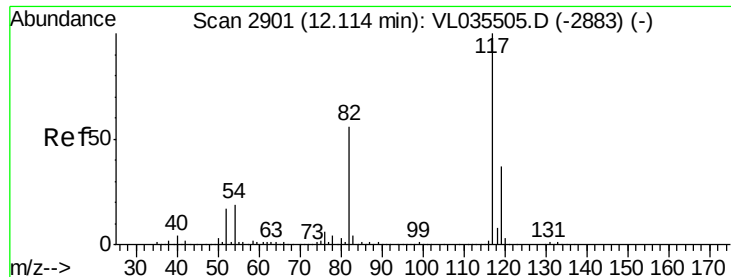
Ion 163.90 (163.60 to 164.60): V

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

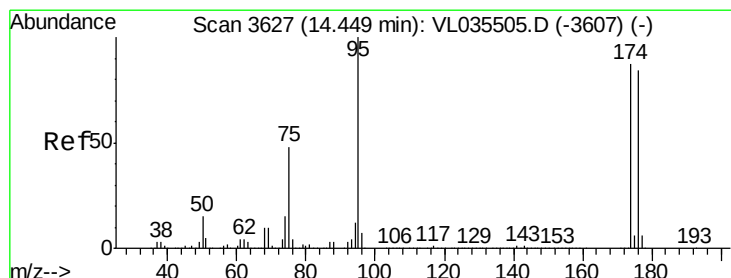
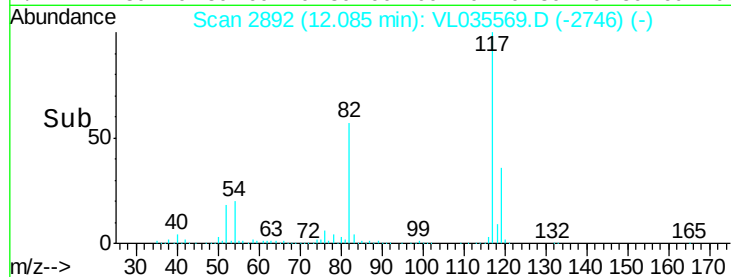
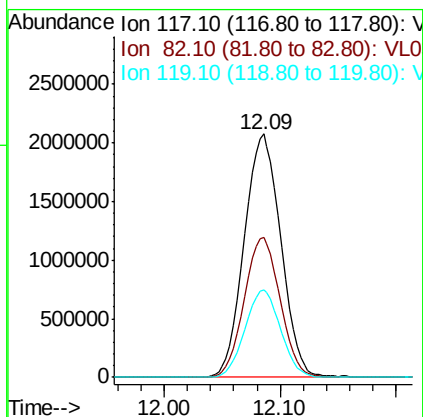
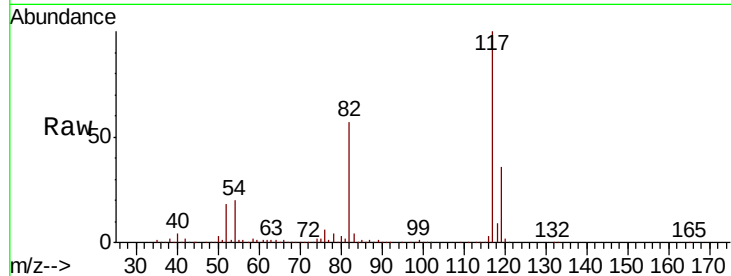




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. -0.03 min
Lab File: VL035569.D
Acq: 8 Sep 2020 23:44

Instrument :
MSVOA_L
ClientSampled :
SS-5DL

Tot Ion:117 Resp: 4560821
Ion Ratio Lower Upper
117 100
82 56.7 41.6 62.4
119 35.1 29.3 43.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.439 ppbv
RT: 14.42 min Scan# 3617
Delta R.T. -0.03 min
Lab File: VL035569.D
Acq: 8 Sep 2020 23:44

Tgt Ion: 95 Resp: 3381051
Ion Ratio Lower Upper
95 100
174 83.2 69.6 104.4
175 5.9 5.1 7.7

