

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090820\
 Data File : VL035568.D
 Acq On : 8 Sep 2020 23:04
 Operator : SY/AP
 Sample : L3898-07DL2 200X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-5DL

Quant Time: Sep 09 02:38:43 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	1132203	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.17	114	4518143	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.09	117	4659069	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	3419566	10.34	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

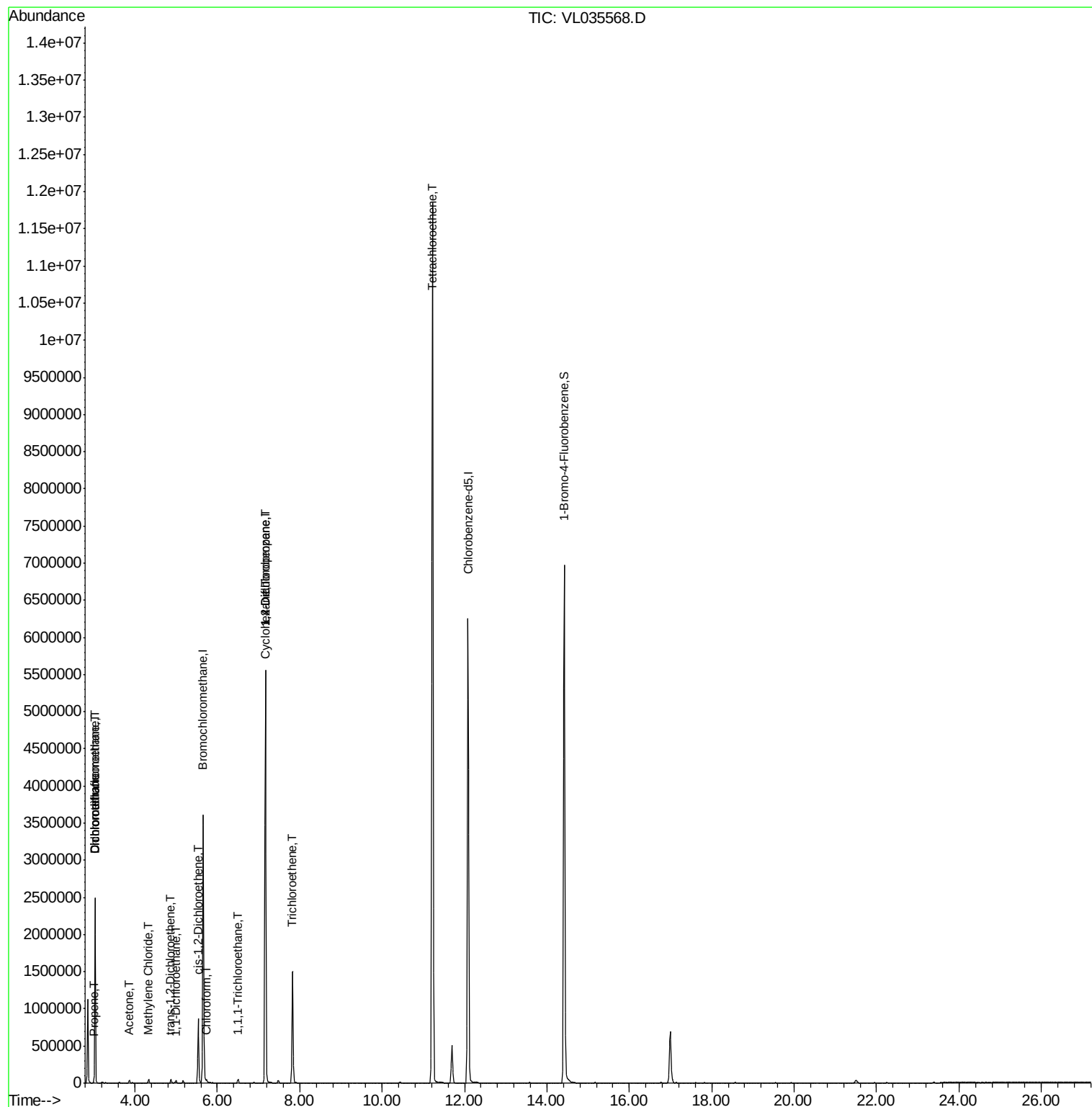
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	1714478	8.738	ppbv	100
4) Chloromethane	3.03	50	159962	2.384	ppbv #	40
8) Dichlorotetrafluoroethane	3.03	85	1714478	7.215	ppbv #	5
9) Propene	3.00	41	1496	0.031	ppbv #	14
15) Acetone	3.86	43	33533	0.269	ppbv #	69
20) Methylene Chloride	4.33	84	20437	0.220	ppbv	91
22) trans-1,2-Dichloroethene	4.88	96	18181	0.180	ppbv	89
24) 1,1-Dichloroethane	5.00	63	22342	0.135	ppbv	94
29) Chloroform	5.74	83	21027	0.083	ppbv	95
30) Cyclohexane	7.15	84	5781	0.043	ppbv #	9
31) cis-1,2-Dichloroethene	5.54	61	393259	3.067	ppbv	95
32) 1,1,1-Trichloroethane	6.50	97	31535	0.128	ppbv	96
38) Trichloroethene	7.83	130	519848	3.060	ppbv	99
39) 1,2-Dichloropropane	7.16	63	849418	8.598	ppbv #	33
52) Tetrachloroethene	11.22	164	3471283	20.317	ppbv	95

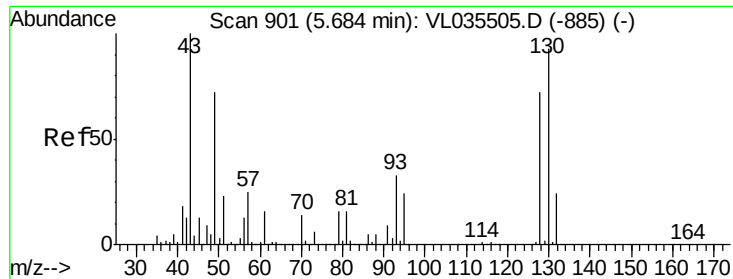
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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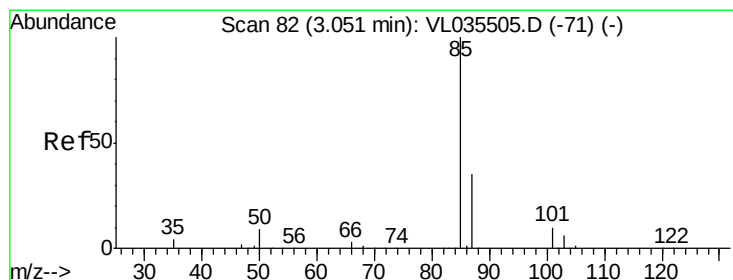
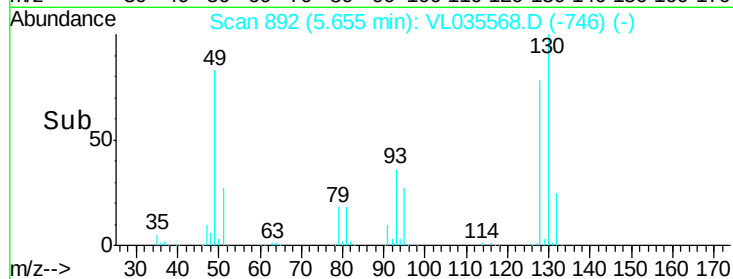
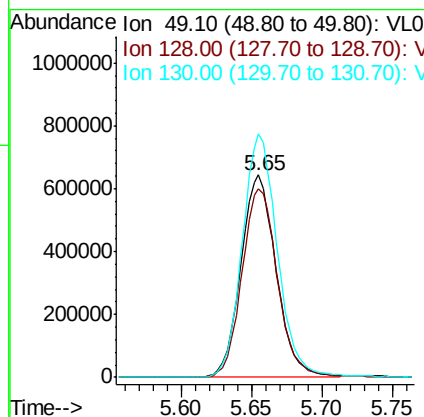
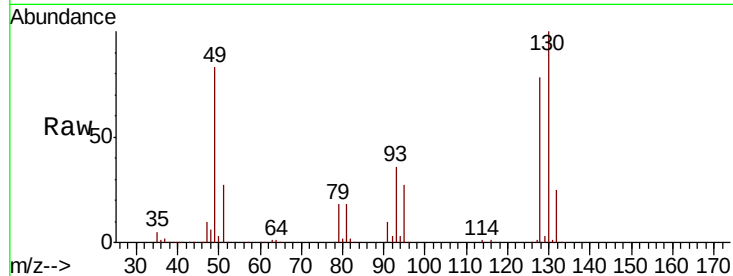




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.65 min Scan# 892
Delta R.T. -0.03 min
Lab File: VL035568.D
Acq: 8 Sep 2020 23:04

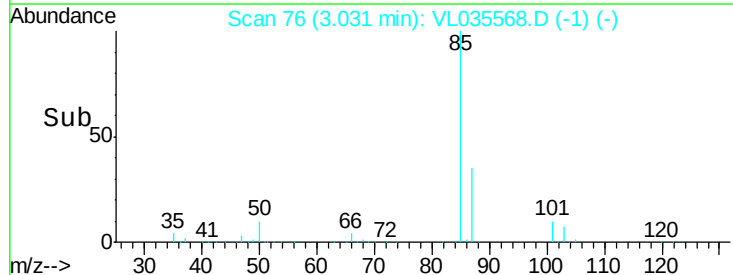
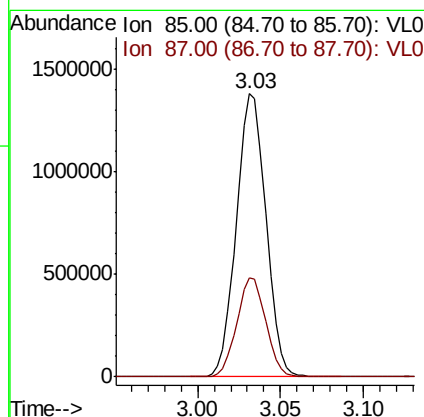
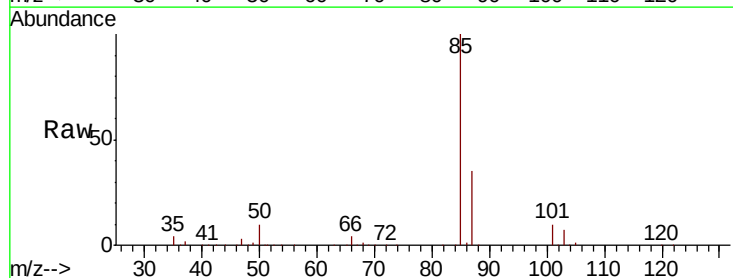
Instrument :
MSVOA_L
ClientSampleId :
SS-5DL

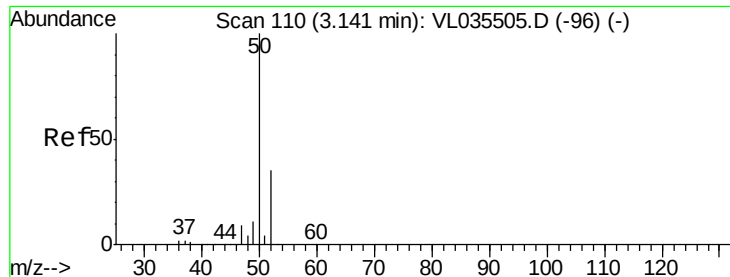
Tot Ion: 49 Resp: 1132203
Ion Ratio Lower Upper
49 100
128 94.7 50.0 150.1
130 121.0 64.4 193.2



#2
Dichlorodifluoromethane
Concen: 8.738 ppbv
RT: 3.03 min Scan# 76
Delta R.T. -0.02 min
Lab File: VL035568.D
Acq: 8 Sep 2020 23:04

Tgt Ion: 85 Resp: 1714478
Ion Ratio Lower Upper
85 100
87 35.2 28.0 42.0





#4

Chloromethane

Concen: 2.384 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.11 min

Lab File: VL035568.D

Acq: 8 Sep 2020 23:04

Instrument :

MSVOA_L

ClientSampleId :

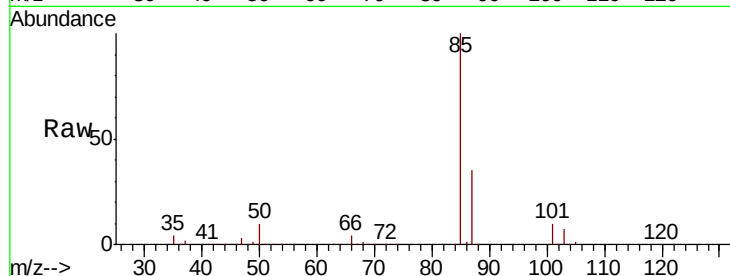
SS-5DL

Tot Ion: 50 Resp: 159962

Ion Ratio Lower Upper

50 100

52 0.1 27.7 41.5#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

150000

100000

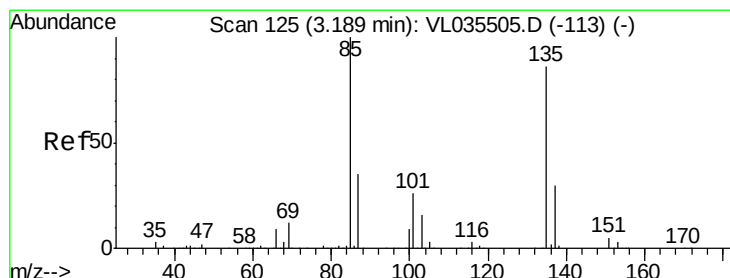
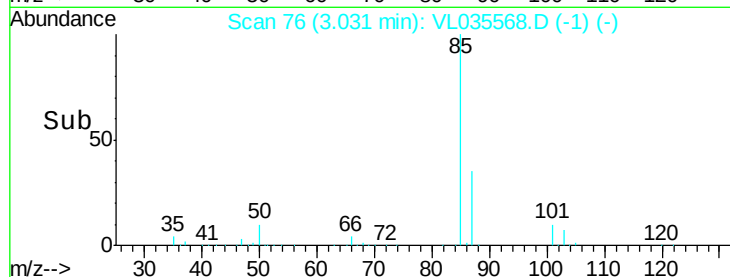
50000

0

3.03

3.00 3.05

Time-->



#8

Dichlorotetrafluoroethane

Concen: 7.215 ppbv

RT: 3.03 min Scan# 76

Delta R.T. -0.16 min

Lab File: VL035568.D

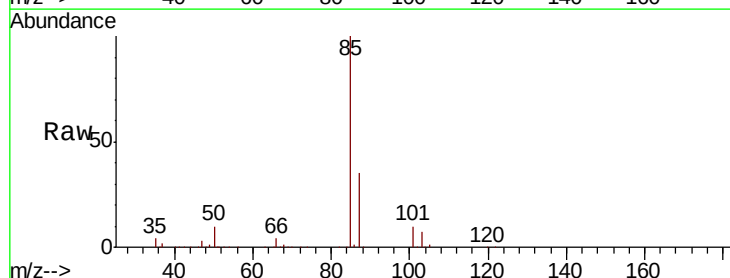
Acq: 8 Sep 2020 23:04

Tgt Ion: 85 Resp: 1714478

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

1500000

1000000

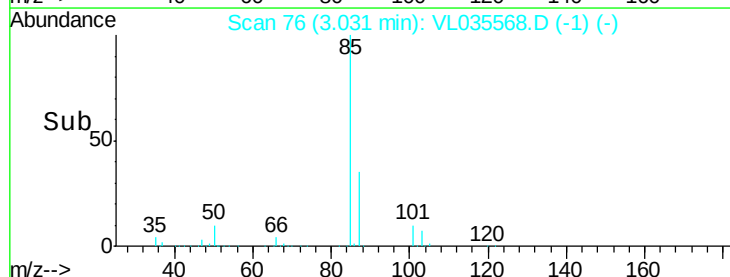
500000

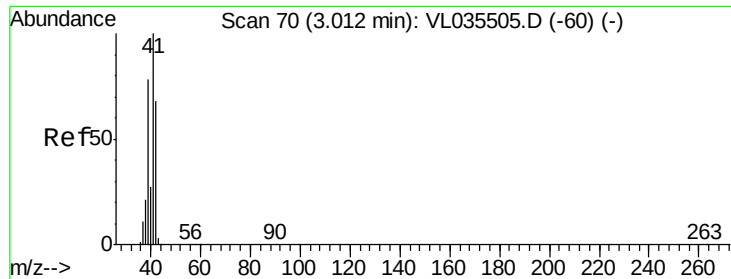
0

3.03

3.00 3.05 3.10

Time-->





#9

Propene

Concen: 0.031 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.01 min

Lab File: VL035568.D

Acq: 8 Sep 2020 23:04

Instrument :

MSVOA_L

ClientSampleId :

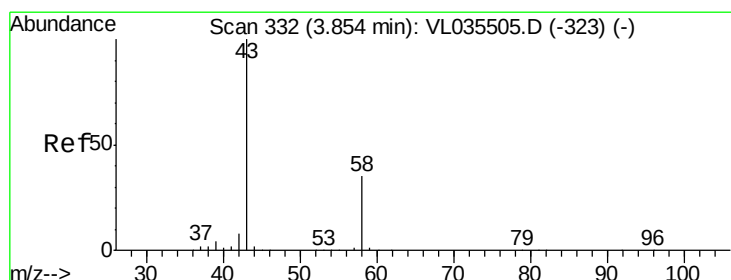
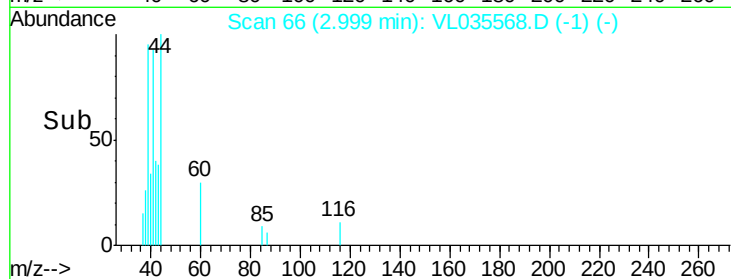
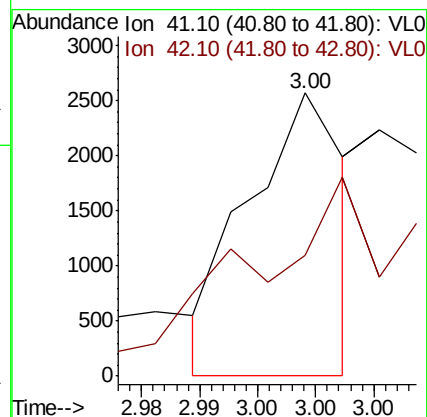
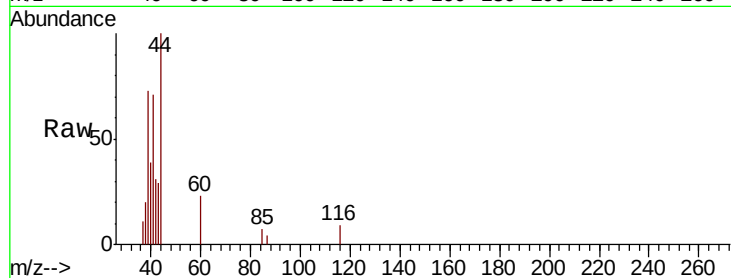
SS-5DL

Tot Ion: 41 Resp: 1496

Ion Ratio Lower Upper

41 100

42 0.0 56.3 84.5#



#15

Acetone

Concen: 0.269 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL035568.D

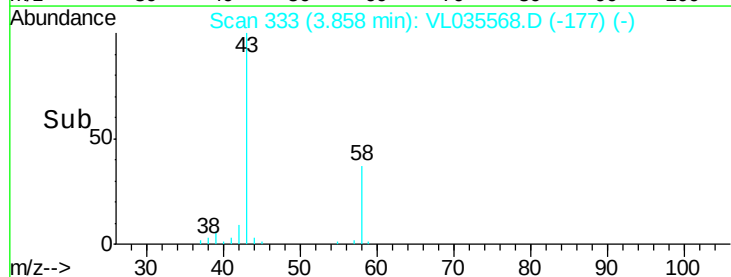
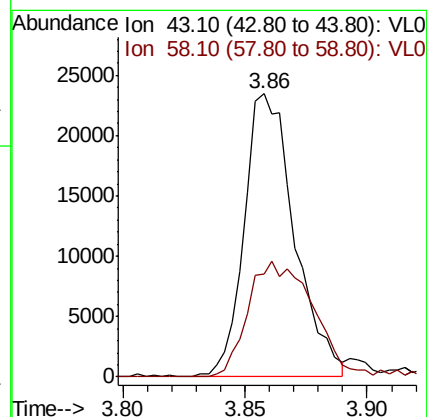
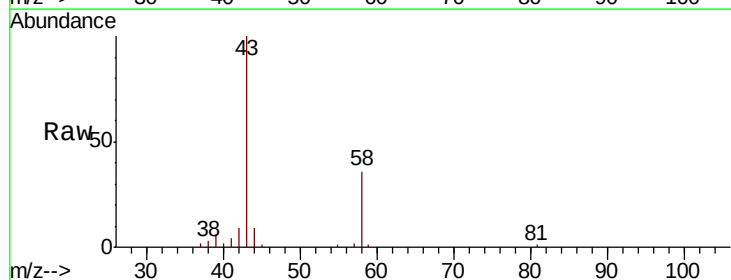
Acq: 8 Sep 2020 23:04

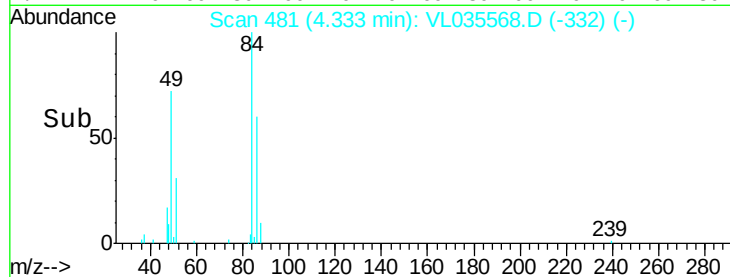
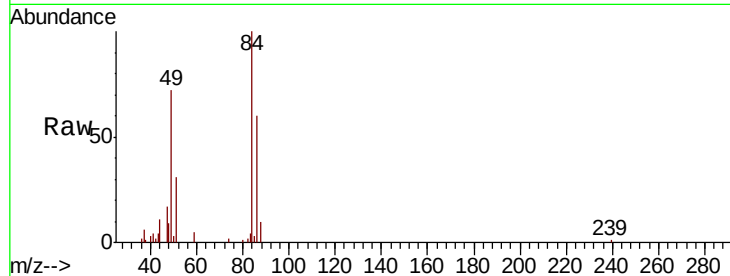
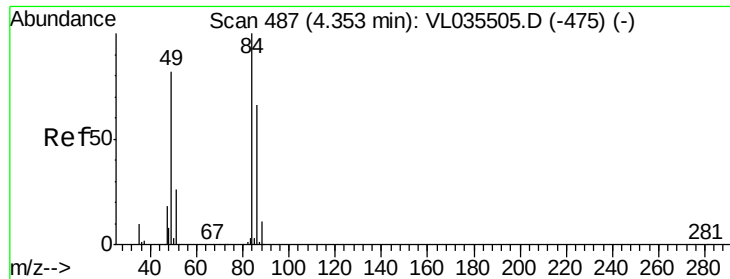
Tgt Ion: 43 Resp: 33533

Ion Ratio Lower Upper

43 100

58 53.6 28.4 42.6#

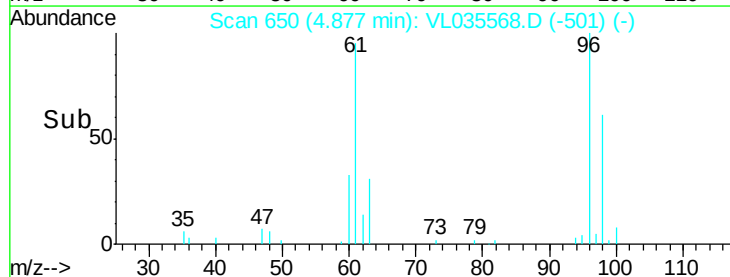
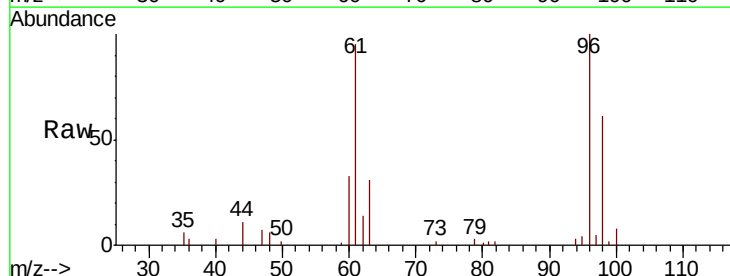
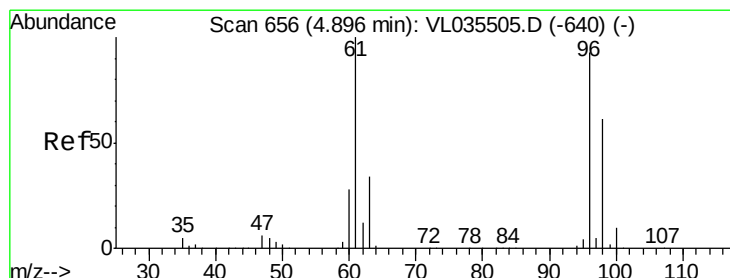
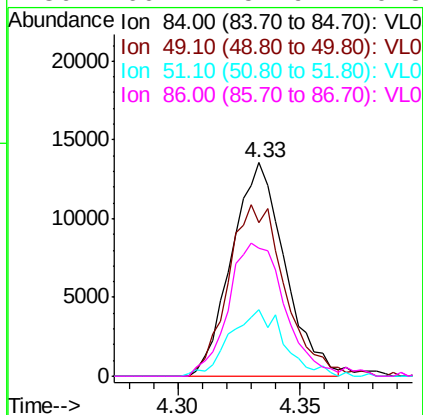




#20
Methylene Chloride
Concen: 0.220 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.02 min
Lab File: VL035568.D
Acq: 8 Sep 2020 23:04

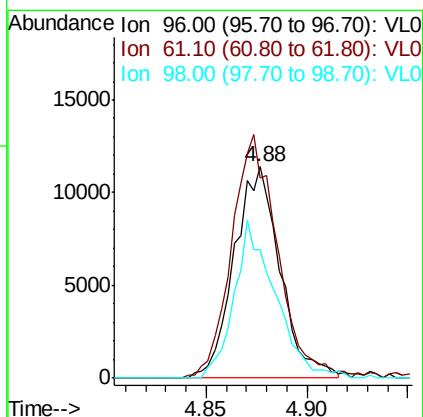
Instrument :
MSVOA_L
ClientSampleId :
SS-5DL

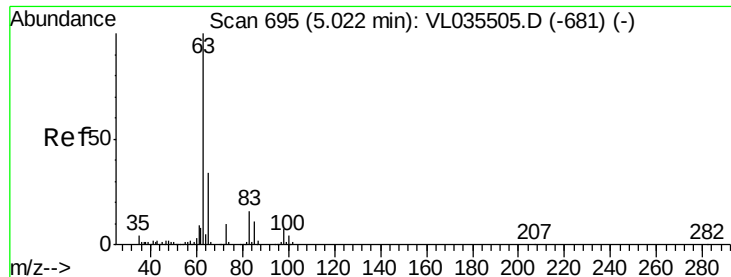
Tot Ion:	84	Resp:	20437
Ion	Ratio	Lower	Upper
84	100		
49	71.7	65.4	98.0
51	30.9	21.5	32.3
86	60.1	52.9	79.3



#22
trans-1,2-Dichloroethene
Concen: 0.180 ppbv
RT: 4.88 min Scan# 650
Delta R.T. -0.02 min
Lab File: VL035568.D
Acq: 8 Sep 2020 23:04

Tgt Ion:	96	Resp:	18181
Ion	Ratio	Lower	Upper
96	100		
61	93.3	86.0	129.0
98	60.7	52.3	78.5





#24

1,1-Dichloroethane

Concen: 0.135 ppbv

RT: 5.00 min Scan# 687

Delta R.T. -0.03 min

Lab File: VL035568.D

Acq: 8 Sep 2020 23:04

Instrument :

MSVOA_L

ClientSampleId :

SS-5DL

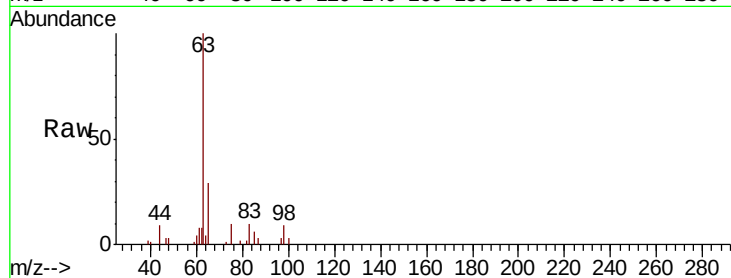
Tot Ion: 63 Resp: 22342

Ion Ratio Lower Upper

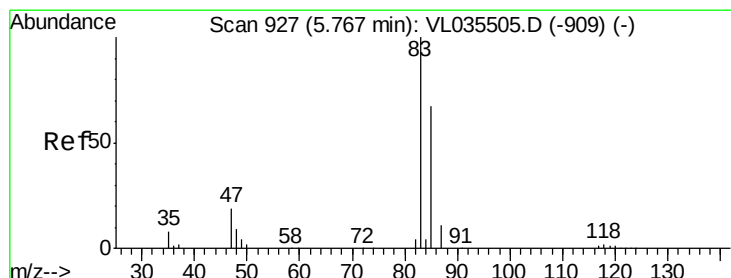
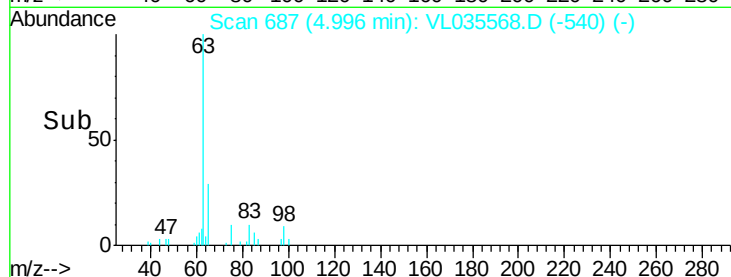
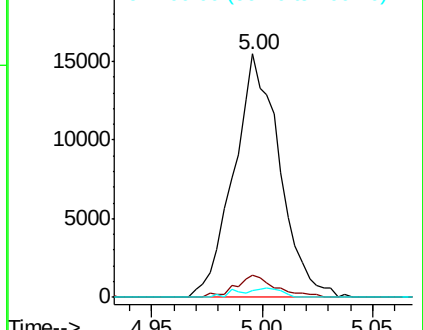
63 100

98 8.9 3.4 10.1

100 2.8 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: 0.083 ppbv

RT: 5.74 min Scan# 918

Delta R.T. -0.03 min

Lab File: VL035568.D

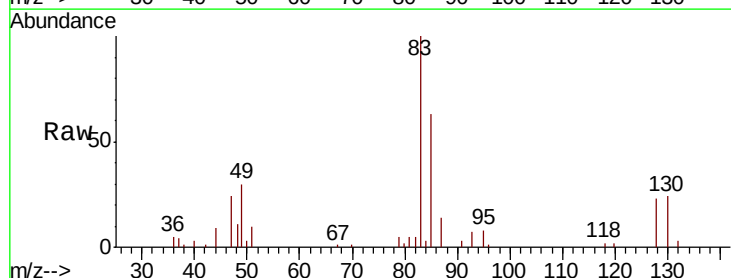
Acq: 8 Sep 2020 23:04

Tgt Ion: 83 Resp: 21027

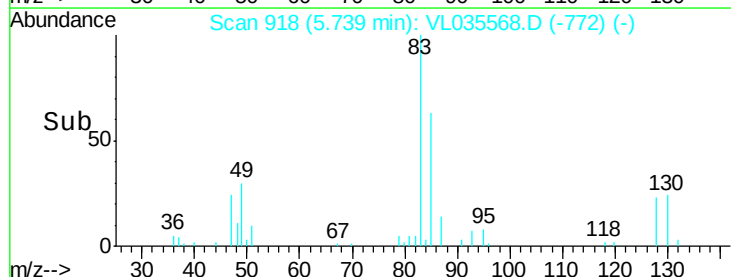
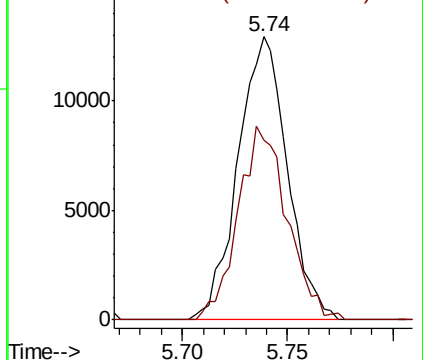
Ion Ratio Lower Upper

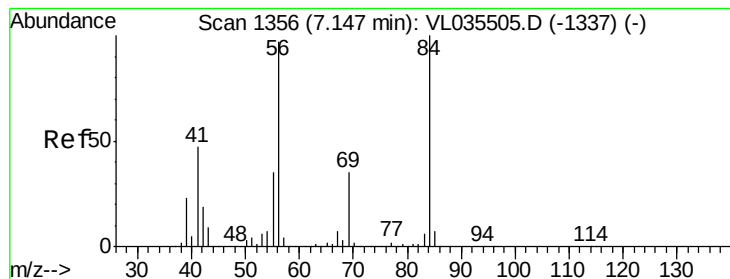
83 100

85 63.4 53.9 80.9



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





#30

Cyclohexane

Concen: 0.043 ppbv

RT: 7.15 min Scan# 1357

Delta R.T. 0.00 min

Lab File: VL035568.D

Acq: 8 Sep 2020 23:04

Instrument :

MSVOA_L

ClientSampleId :

SS-5DL

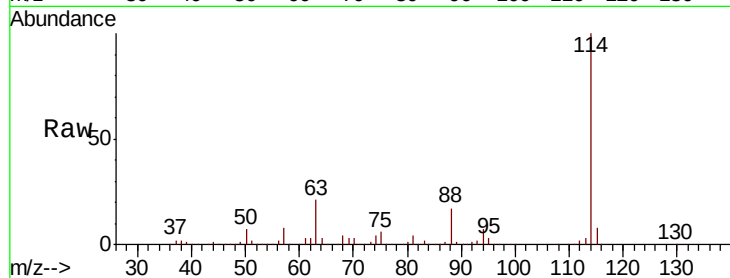
Tot Ion: 84 Resp: 5781

Ion Ratio Lower Upper

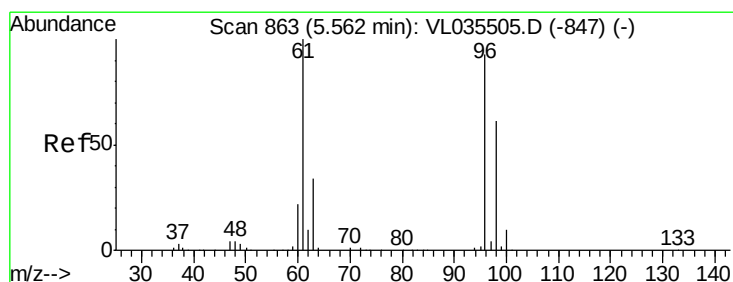
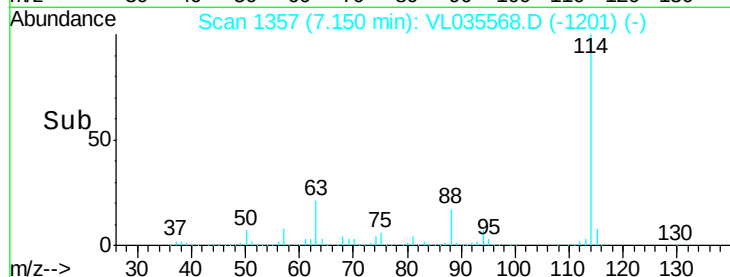
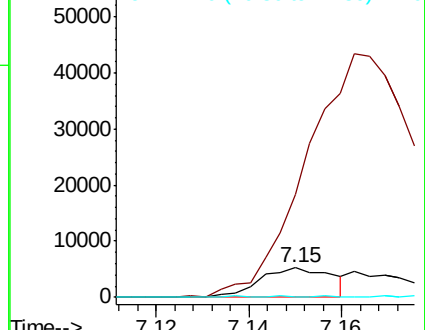
84 100

56 0.0 80.1 120.1#

41 0.0 38.1 57.1#



Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0



#31

cis-1,2-Dichloroethene

Concen: 3.067 ppbv

RT: 5.54 min Scan# 855

Delta R.T. -0.03 min

Lab File: VL035568.D

Acq: 8 Sep 2020 23:04

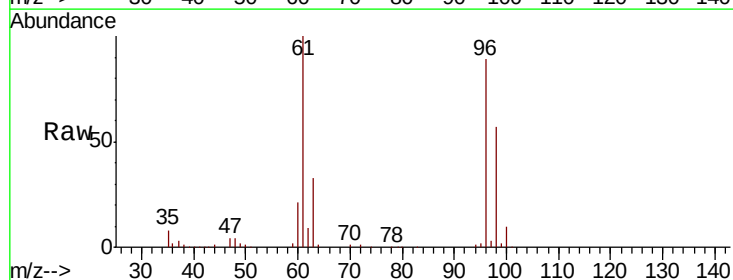
Tgt Ion: 61 Resp: 393259

Ion Ratio Lower Upper

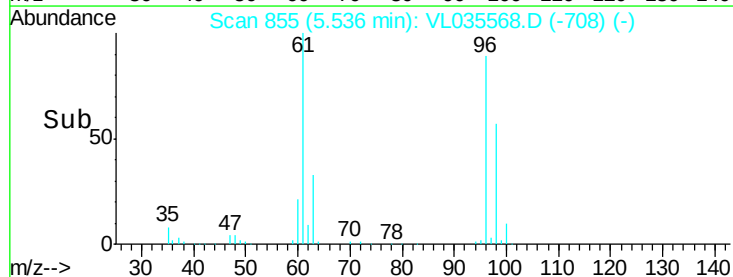
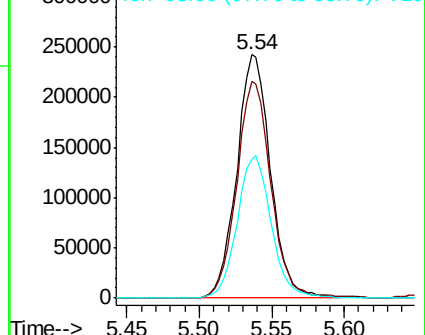
61 100

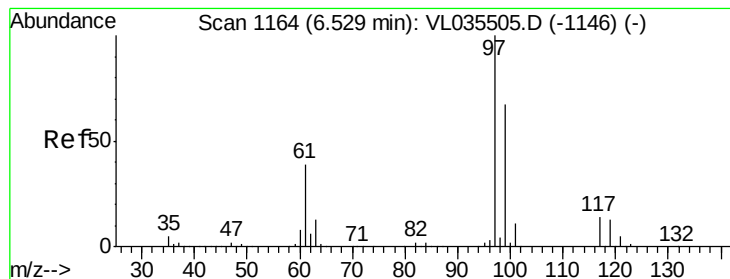
96 89.0 74.4 111.6

98 57.1 49.2 73.8



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0





#32

1,1,1-Trichloroethane

Concen: 0.128 ppbv

RT: 6.50 min Scan# 1155

Delta R.T. -0.03 min

Lab File: VL035568.D

Acq: 8 Sep 2020 23:04

Instrument :

MSVOA_L

ClientSampled :

SS-5DL

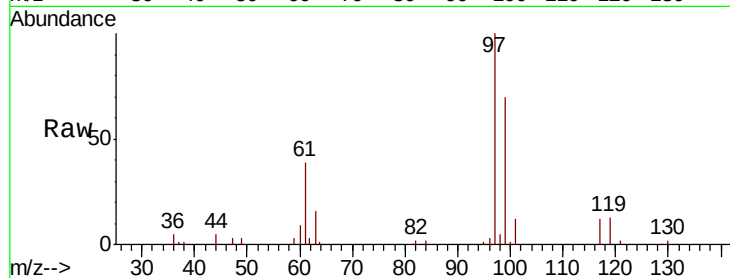
Tot Ion: 97 Resp: 31535

Ion Ratio Lower Upper

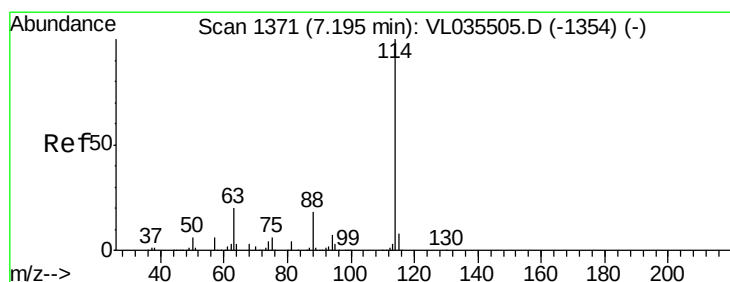
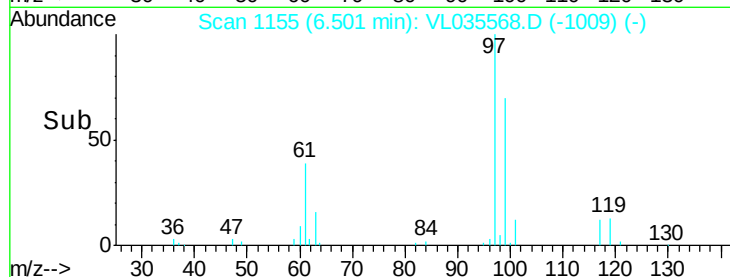
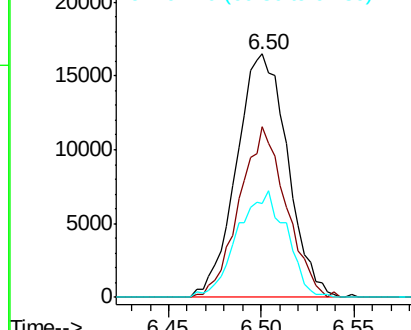
97 100

99 64.2 53.3 79.9

61 41.9 30.6 46.0



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1362

Delta R.T. -0.03 min

Lab File: VL035568.D

Acq: 8 Sep 2020 23:04

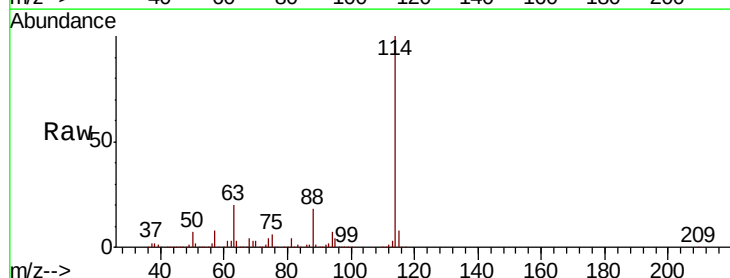
Tgt Ion: 114 Resp: 4518143

Ion Ratio Lower Upper

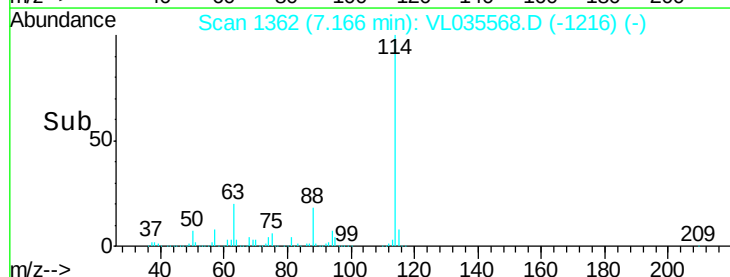
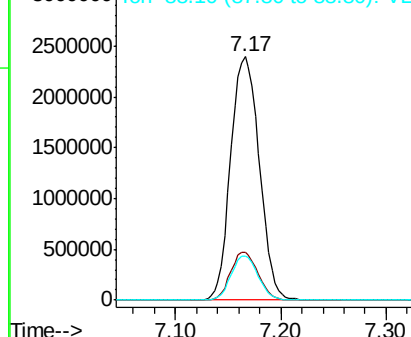
114 100

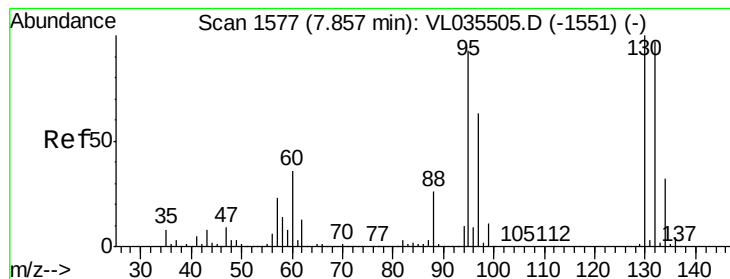
63 18.9 14.7 22.1

88 17.1 13.4 20.2



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





#38

Trichloroethene

Concen: 3.060 ppbv

RT: 7.83 min Scan# 1567

Delta R.T. -0.03 min

Lab File: VL035568.D

Acq: 8 Sep 2020 23:04

Instrument :

MSVOA_L

ClientSampleId :

SS-5DL

Tot Ion:130 Resp: 519848

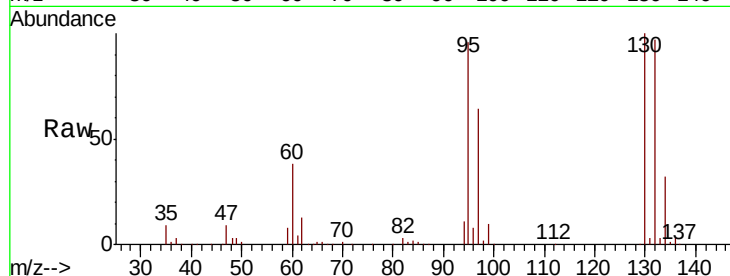
Ion Ratio Lower Upper

130 100

95 96.2 74.6 112.0

132 96.5 77.6 116.4

97 63.6 50.6 76.0

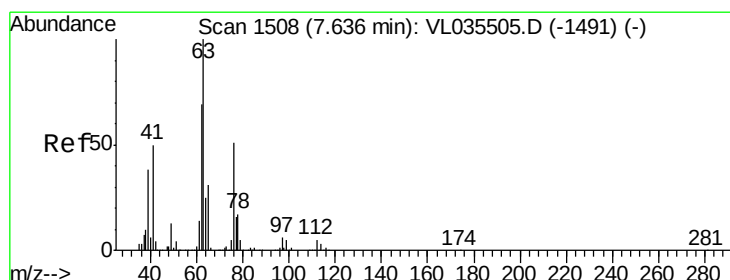
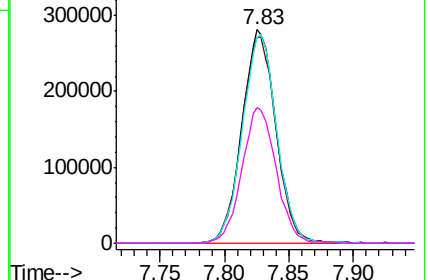
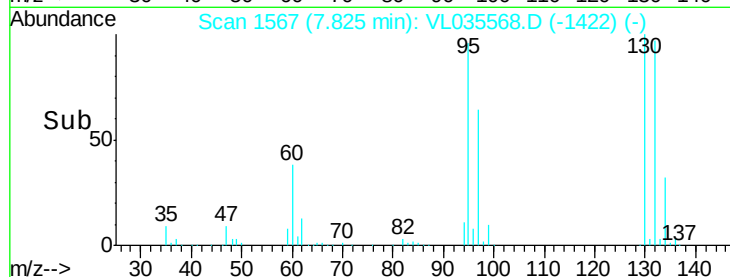


Abundance Ion 130.00 (129.70 to 130.70): V

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



#39

1,2-Dichloropropane

Concen: 8.598 ppbv

RT: 7.16 min Scan# 1361

Delta R.T. -0.47 min

Lab File: VL035568.D

Acq: 8 Sep 2020 23:04

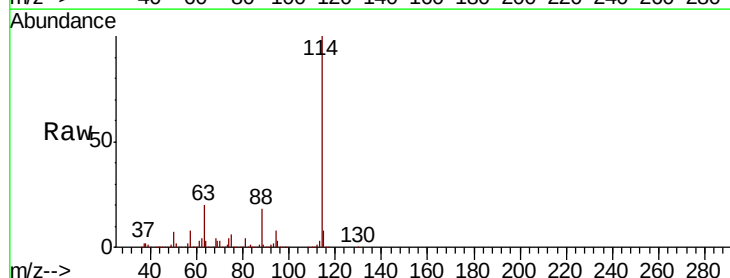
Tgt Ion: 63 Resp: 849418

Ion Ratio Lower Upper

63 100

41 0.0 40.0 60.0#

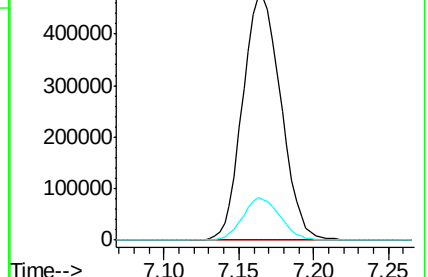
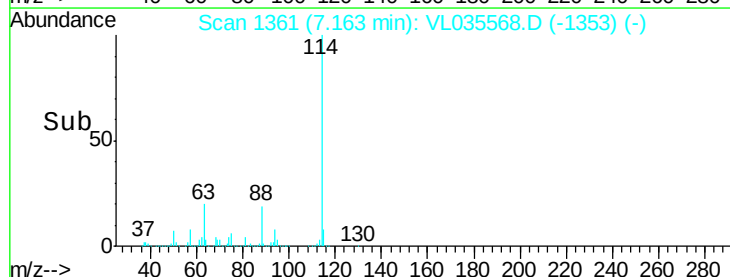
62 17.7 55.4 83.0#

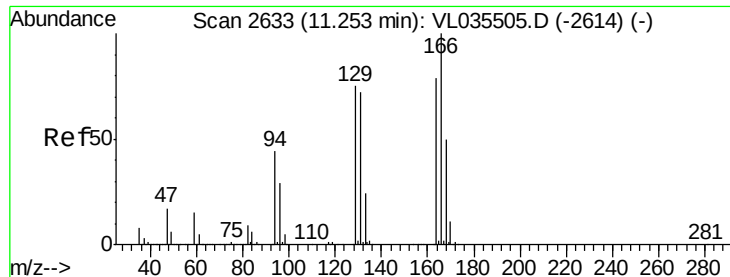


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 20.317 ppbv

RT: 11.22 min Scan# 2624

Delta R.T. -0.03 min

Lab File: VL035568.D

Acq: 8 Sep 2020 23:04

Instrument :

MSVOA_L

ClientSampleId :

SS-5DL

Tot Ion:164 Resp: 3471283

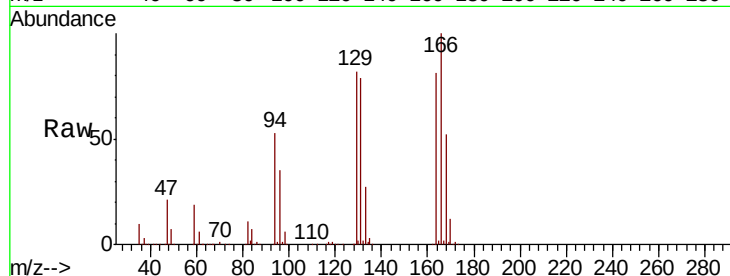
Ion Ratio Lower Upper

164 100

166 122.7 100.9 151.3

129 100.6 75.3 112.9

131 96.5 73.0 109.4

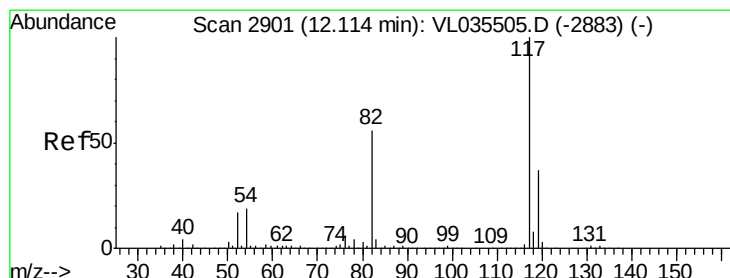
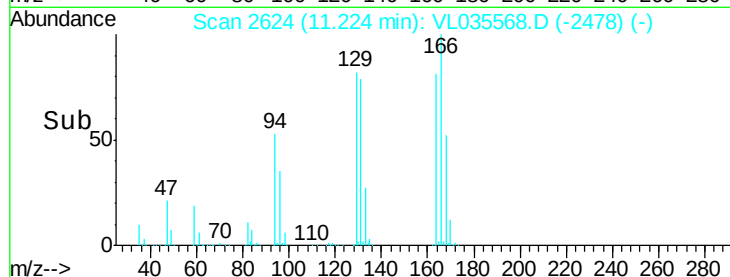
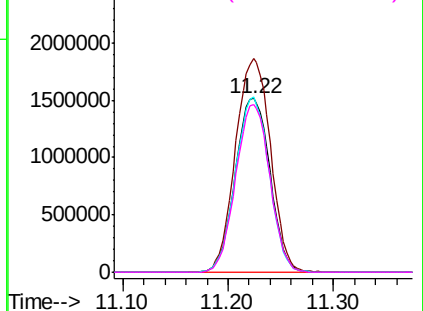


Abundance Ion 163.90 (163.60 to 164.60): V

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: VL035568.D

Acq: 8 Sep 2020 23:04

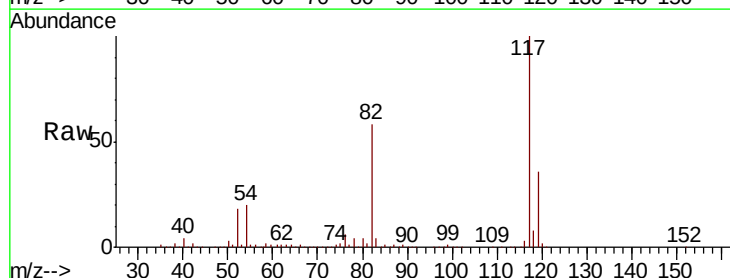
Tgt Ion:117 Resp: 4659069

Ion Ratio Lower Upper

117 100

82 56.2 41.6 62.4

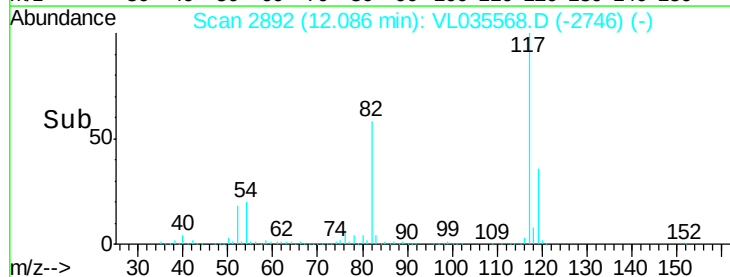
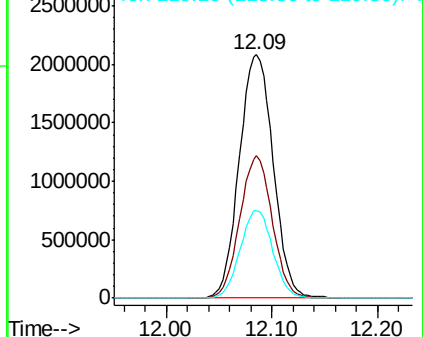
119 34.8 29.3 43.9

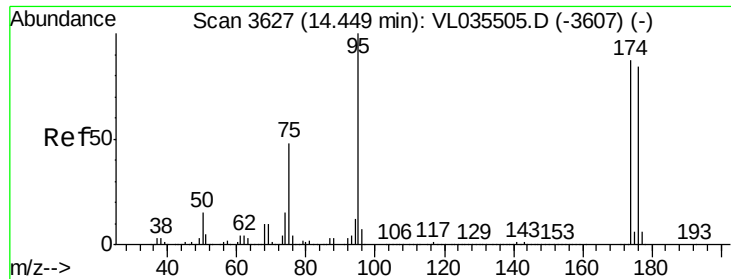


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.335 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. -0.03 min

Lab File: VL035568.D

Acq: 8 Sep 2020 23:04

Instrument :

MSVOA_L

ClientSampleId :

SS-5DL

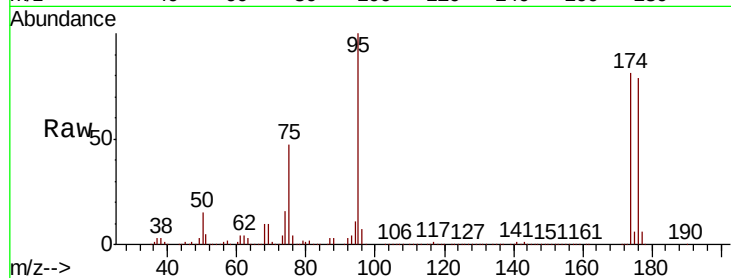
Tot Ion: 95 Resp: 3419566

Ion Ratio Lower Upper

95 100

174 84.0 69.6 104.4

175 6.0 5.1 7.7



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

