

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082720\
 Data File : VL035522.D
 Acq On : 27 Aug 2020 17:00
 Operator : SY/AP
 Sample : CAN 10608
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 CAN 10608

Quant Time: Aug 28 01:27:51 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	5.69	49	980869	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	4066349	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.13	117	4066230	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	2977211	10.31	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

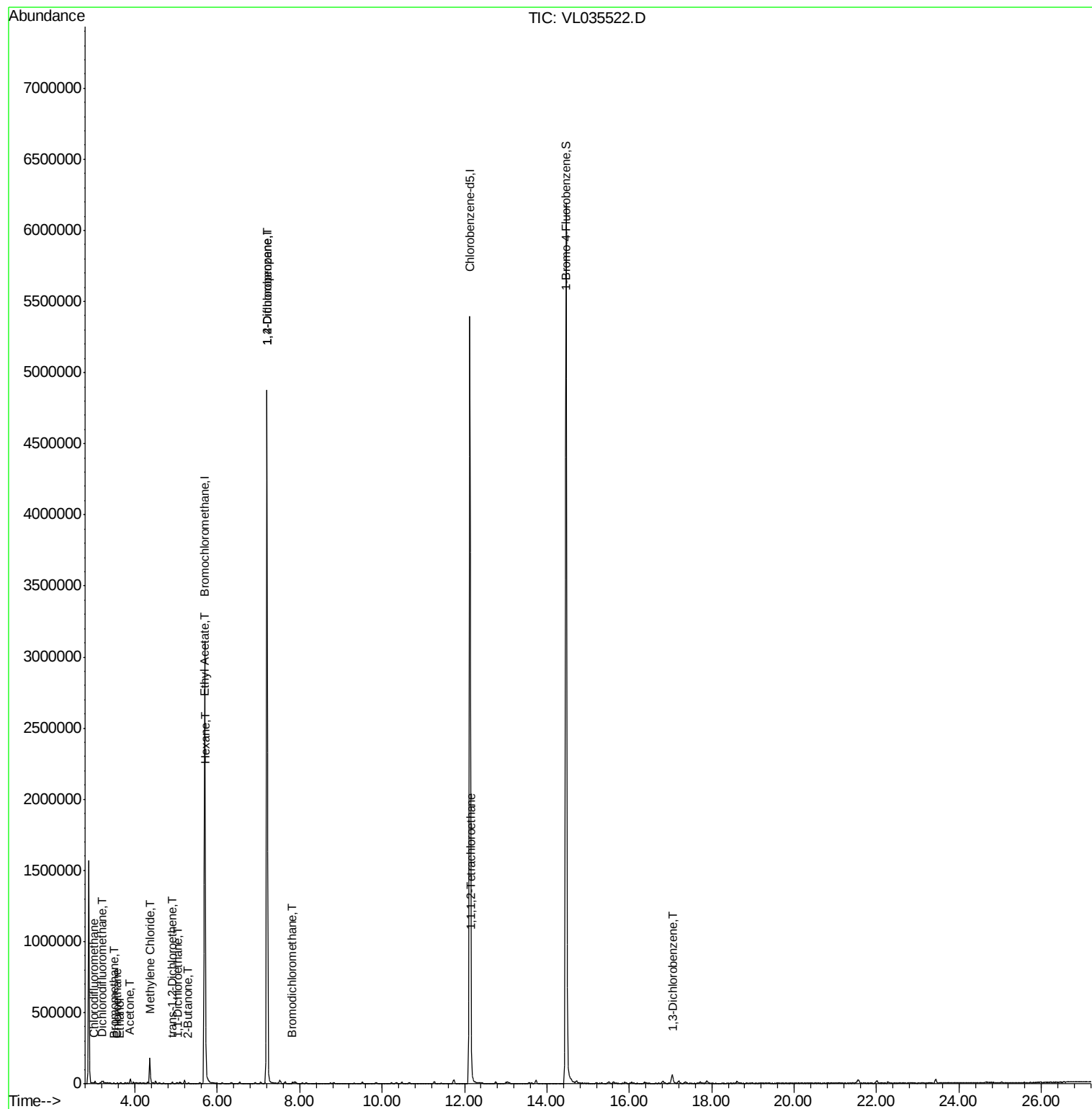
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.20	85	5230	0.031	ppbv	89
3) Chlorodifluoromethane	2.99	51	3936	0.036	ppbv	98
6) Bromomethane	3.49	94	2139	0.036	ppbv #	53
7) Chloroethane	3.57	64	872	0.034	ppbv	93
13) Ethanol	3.63	45	591	0.057	ppbv #	37
15) Acetone	3.88	43	23302	0.215	ppbv #	60
20) Methylene Chloride	4.37	84	80772	1.002	ppbv	95
22) trans-1,2-Dichloroethene	4.91	96	2666	0.030	ppbv #	87
24) 1,1-Dichloroethane	5.03	63	4324	0.030	ppbv #	92
25) Ethyl Acetate	5.71	43	21153	0.111	ppbv #	81
26) Hexane	5.71	57	30930	0.286	ppbv #	52
34) 2-Butanone	5.29	43	6164	0.051	ppbv	97
39) 1,2-Dichloropropane	7.20	63	744524	8.373	ppbv #	32
42) Bromodichloromethane	7.82	83	6405	0.032	ppbv #	72
56) 1,1,1,2-Tetrachloroethane	12.17	131	5018	0.030	ppbv #	66
75) 1,3-Dichlorobenzene	17.06	146	11506	0.034	ppbv	97

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

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QLast Update : Thu Aug 27 06:46:28 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 903

Delta R.T. 0.01 min

Lab File: VL035522.D

Acq: 27 Aug 2020 17:00

Instrument :

MSVOA_L

ClientSampleId :

CAN 10608

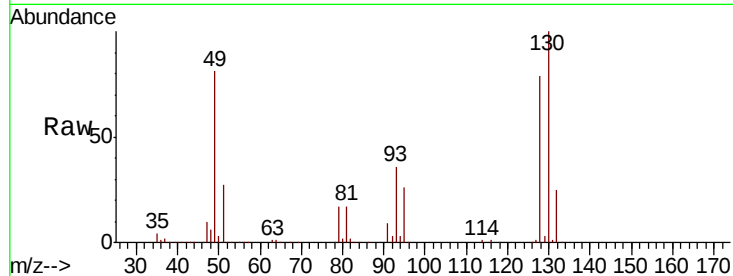
Tot Ion: 49 Resp: 980869

Ion Ratio Lower Upper

49 100

128 97.4 50.0 150.1

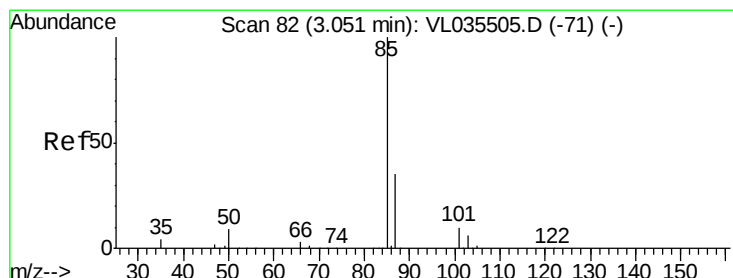
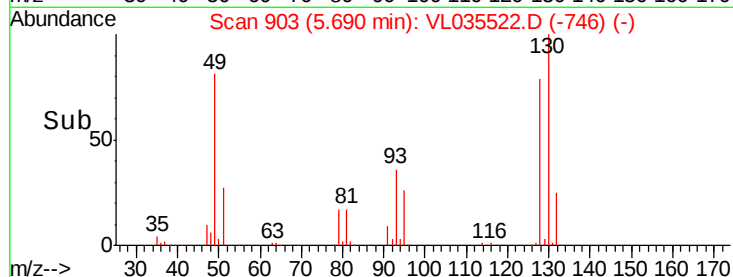
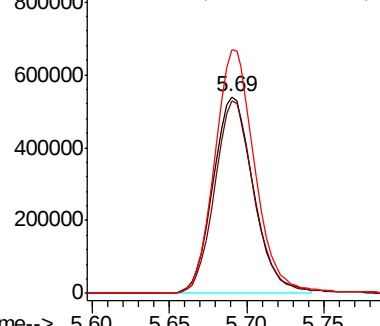
130 124.6 64.4 193.2



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: 0.031 ppbv

RT: 3.20 min Scan# 127

Delta R.T. 0.14 min

Lab File: VL035522.D

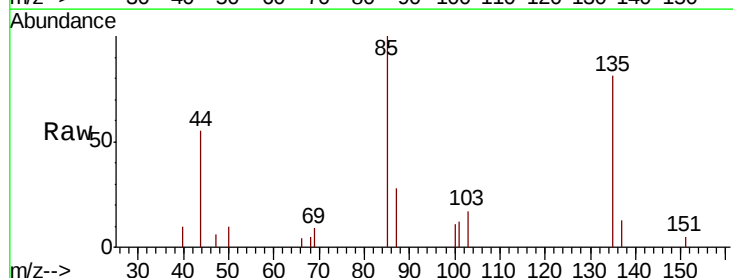
Acq: 27 Aug 2020 17:00

Tgt Ion: 85 Resp: 5230

Ion Ratio Lower Upper

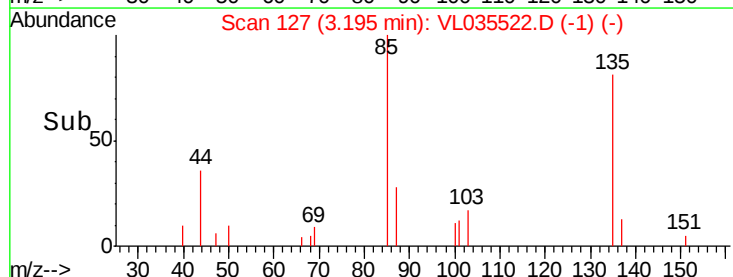
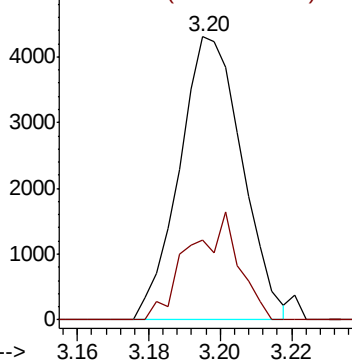
85 100

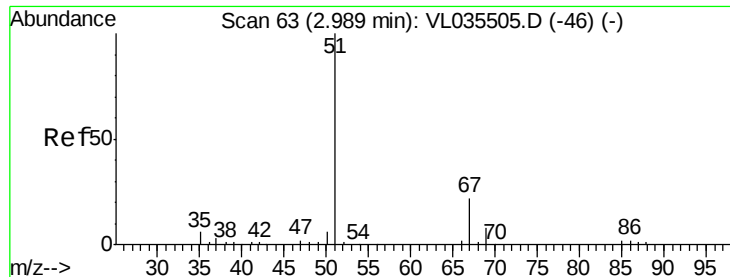
87 28.4 28.0 42.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.036 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL035522.D

Acq: 27 Aug 2020 17:00

Instrument :

MSVOA_L

ClientSampleId :

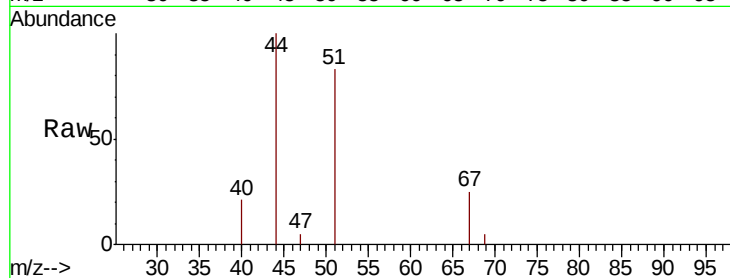
CAN 10608

Tot Ion: 51 Resp: 3936

Ion Ratio Lower Upper

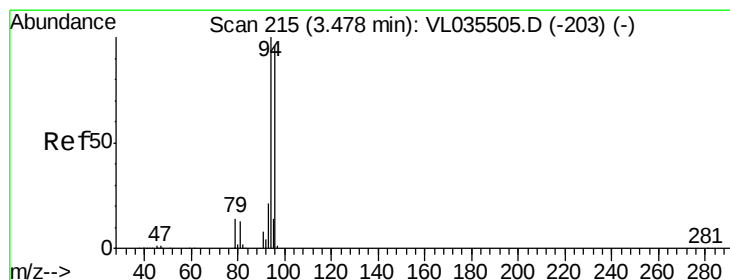
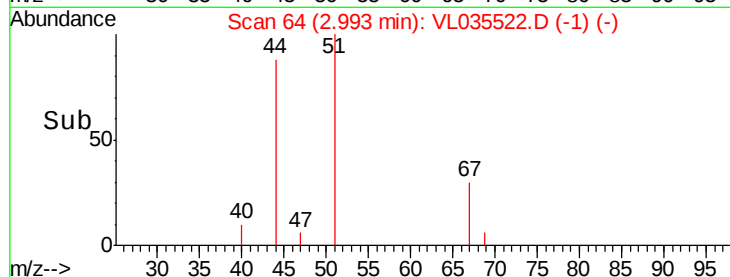
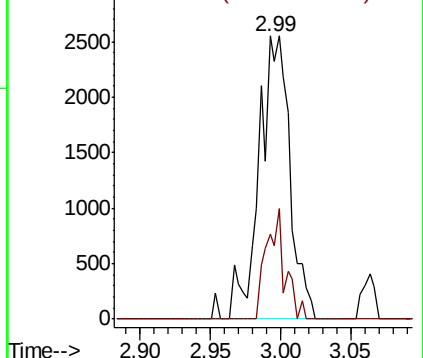
51 100

67 23.2 17.8 26.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#6

Bromomethane

Concen: 0.036 ppbv

RT: 3.49 min Scan# 219

Delta R.T. 0.01 min

Lab File: VL035522.D

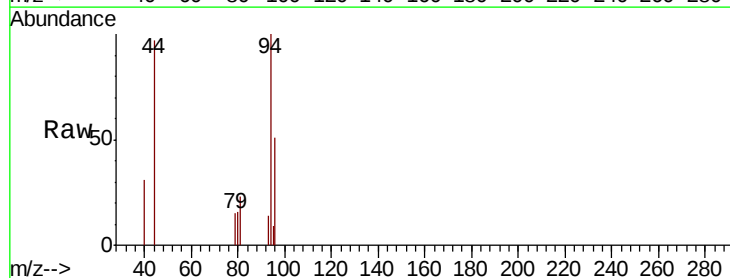
Acq: 27 Aug 2020 17:00

Tgt Ion: 94 Resp: 2139

Ion Ratio Lower Upper

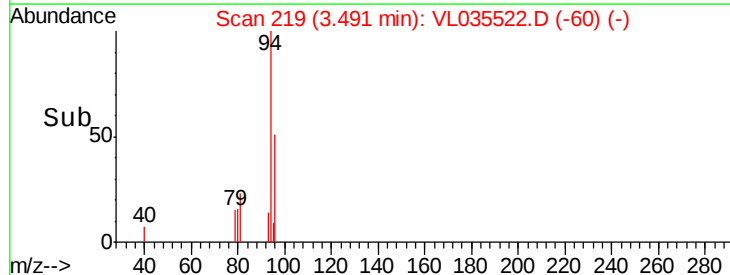
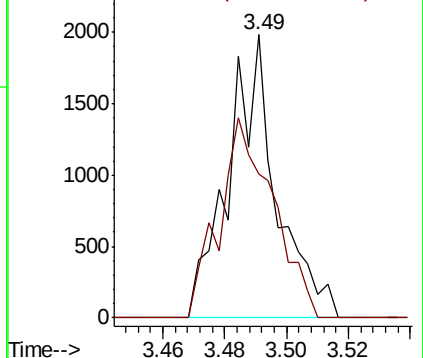
94 100

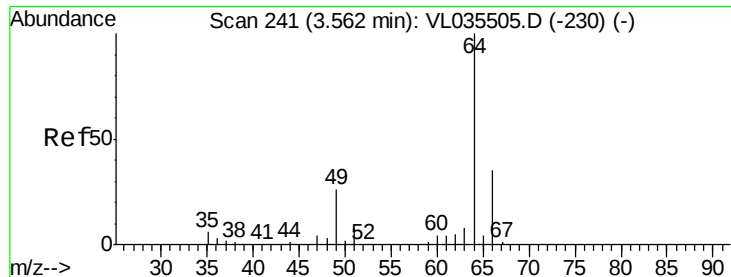
96 50.6 77.1 115.7#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.034 ppbv

RT: 3.57 min Scan# 244

Delta R.T. 0.01 min

Lab File: VL035522.D

Acq: 27 Aug 2020 17:00

Instrument :

MSVOA_L

ClientSampleId :

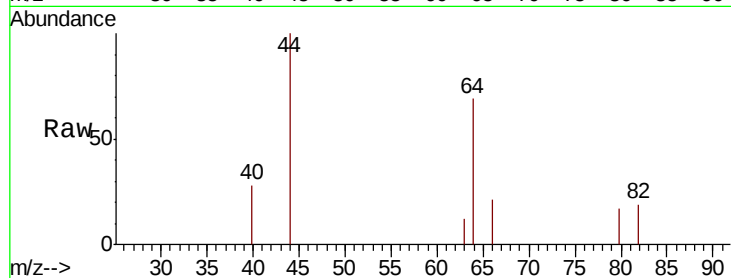
CAN 10608

Tot Ion: 64 Resp: 872

Ion Ratio Lower Upper

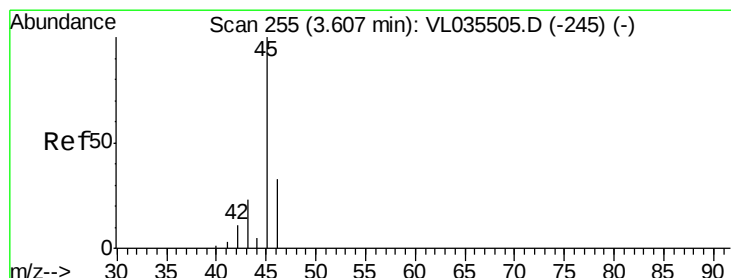
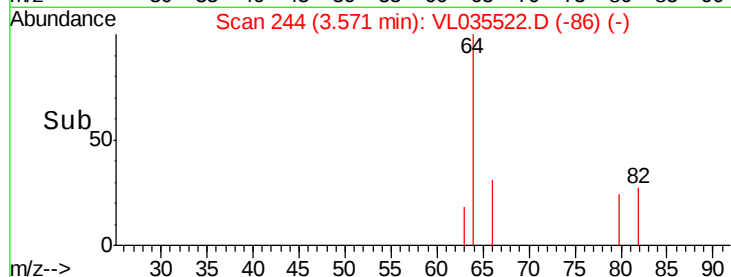
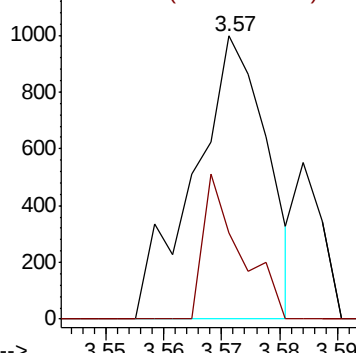
64 100

66 30.6 27.7 41.5



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#13

Ethanol

Concen: 0.057 ppbv

RT: 3.63 min Scan# 261

Delta R.T. 0.02 min

Lab File: VL035522.D

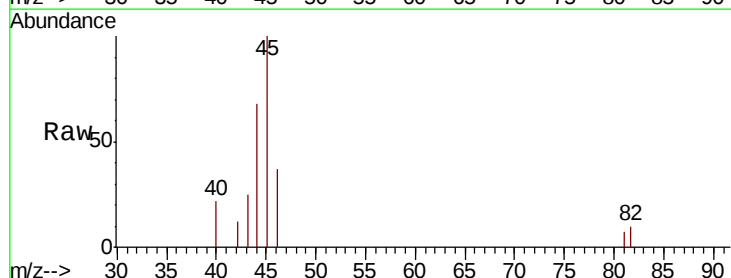
Acq: 27 Aug 2020 17:00

Tgt Ion: 45 Resp: 591

Ion Ratio Lower Upper

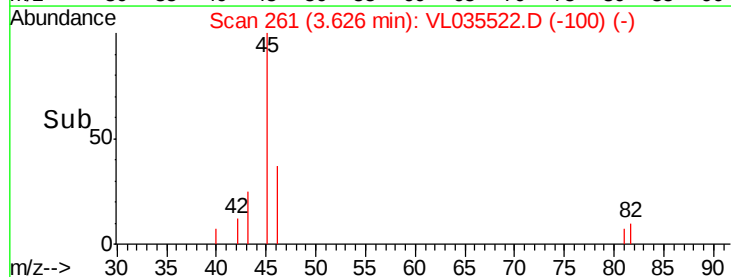
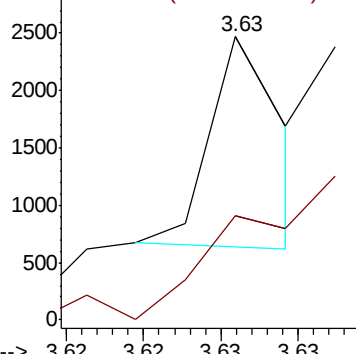
45 100

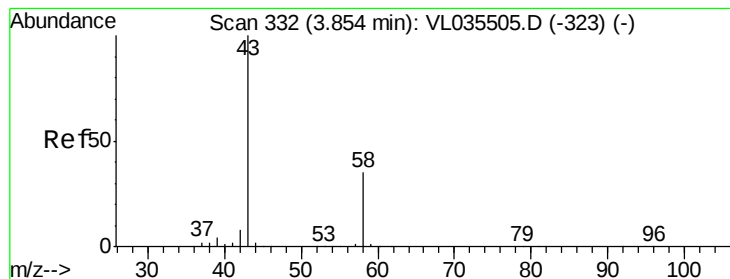
46 0.0 15.2 60.6#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.215 ppbv

RT: 3.88 min Scan# 341

Delta R.T. 0.03 min

Lab File: VL035522.D

Acq: 27 Aug 2020 17:00

Instrument :

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ClientSampleId :

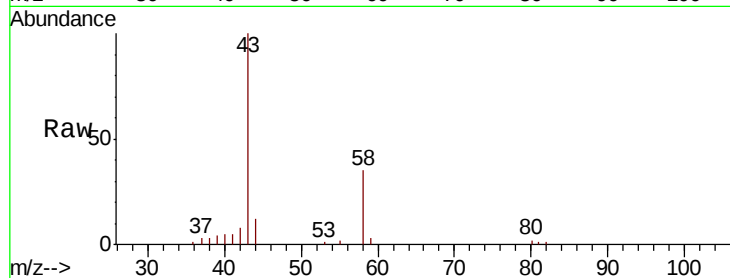
CAN 10608

Tot Ion: 43 Resp: 23302

Ion Ratio Lower Upper

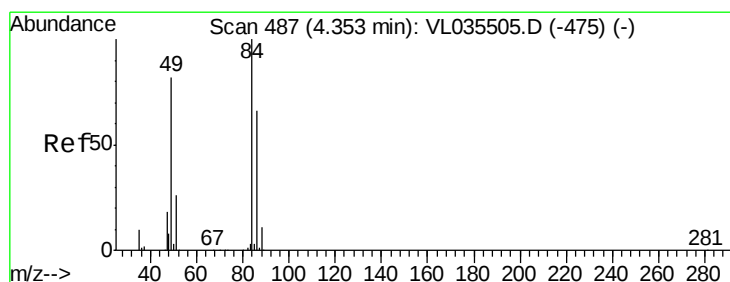
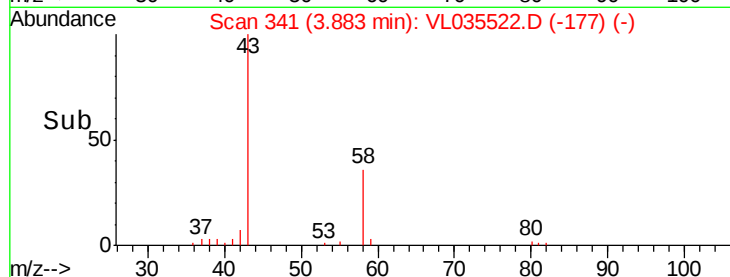
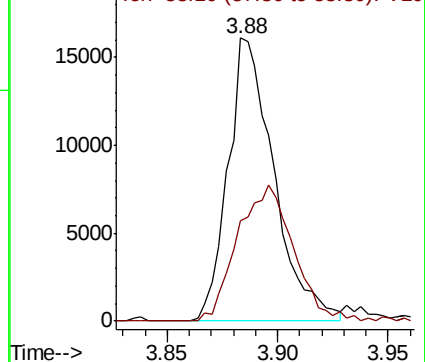
43 100

58 58.8 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: 1.002 ppbv

RT: 4.37 min Scan# 491

Delta R.T. 0.01 min

Lab File: VL035522.D

Acq: 27 Aug 2020 17:00

Tgt Ion: 84 Resp: 80772

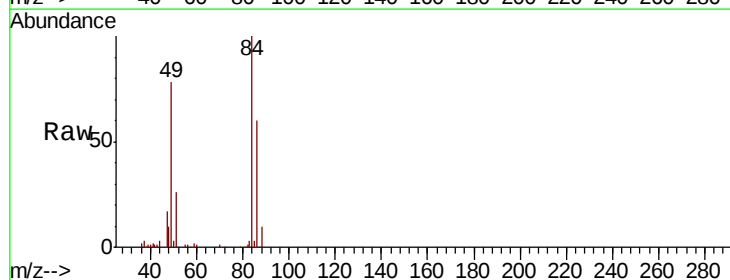
Ion Ratio Lower Upper

84 100

49 78.0 65.4 98.0

51 26.2 21.5 32.3

86 60.5 52.9 79.3

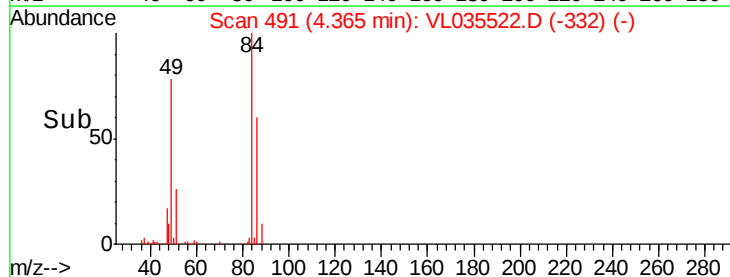
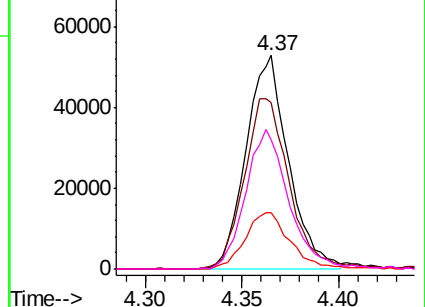


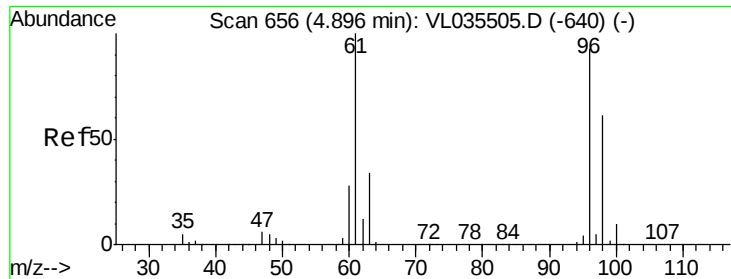
Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 0.030 ppbv

RT: 4.91 min Scan# 659

Delta R.T. 0.01 min

Lab File: VL035522.D

Acq: 27 Aug 2020 17:00

Instrument :

MSVOA_L

ClientSampleId :

CAN 10608

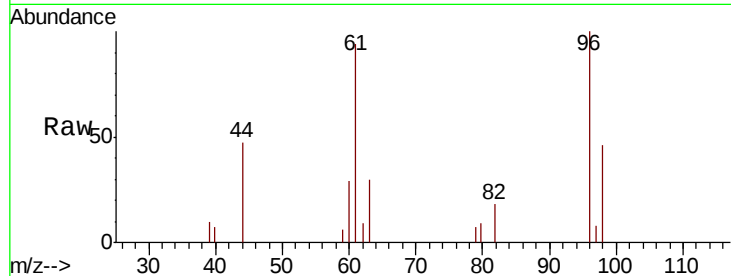
Tot Ion: 96 Resp: 2666

Ion Ratio Lower Upper

96 100

61 103.3 86.0 129.0

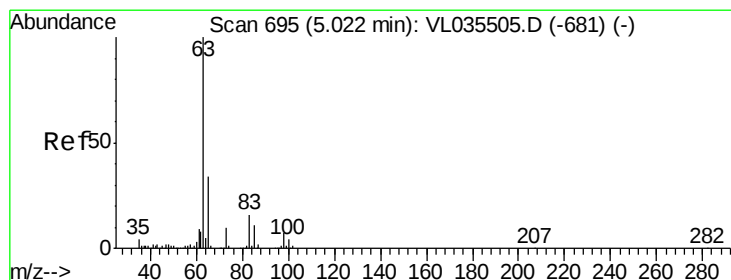
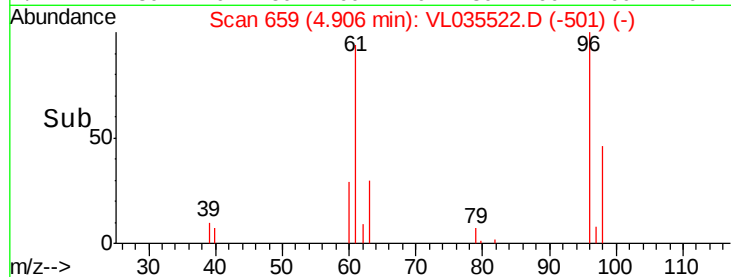
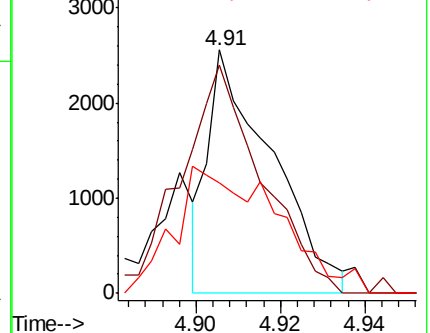
98 42.9 52.3 78.5#



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: 0.030 ppbv

RT: 5.03 min Scan# 699

Delta R.T. 0.01 min

Lab File: VL035522.D

Acq: 27 Aug 2020 17:00

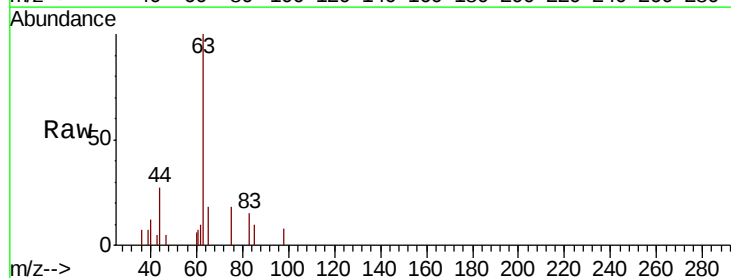
Tgt Ion: 63 Resp: 4324

Ion Ratio Lower Upper

63 100

98 8.2 3.4 10.1

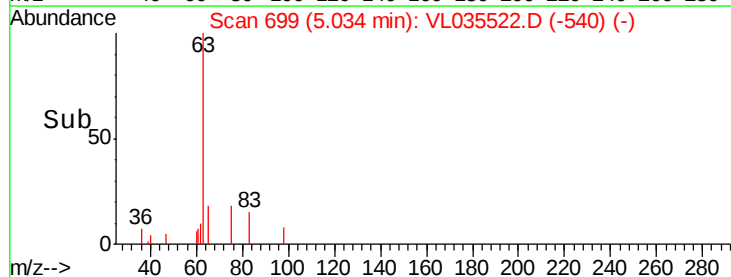
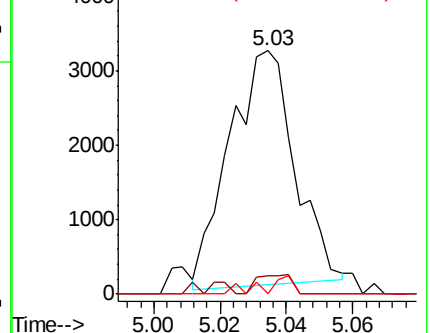
100 0.0 2.1 6.5#

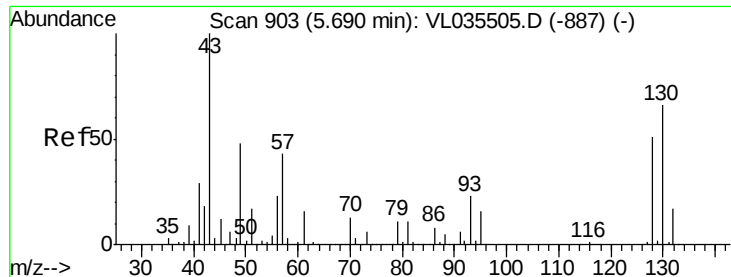


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

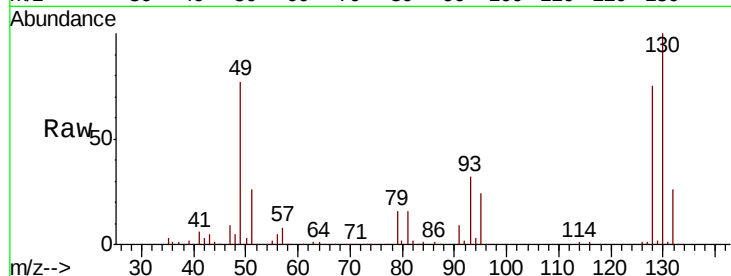




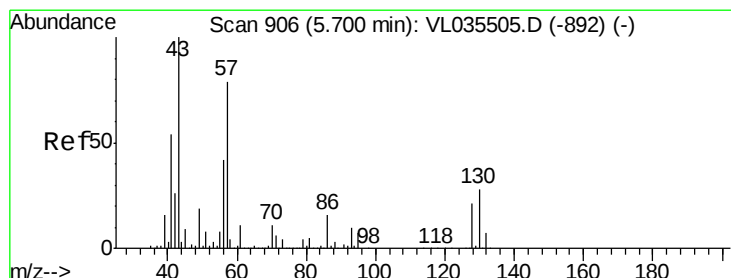
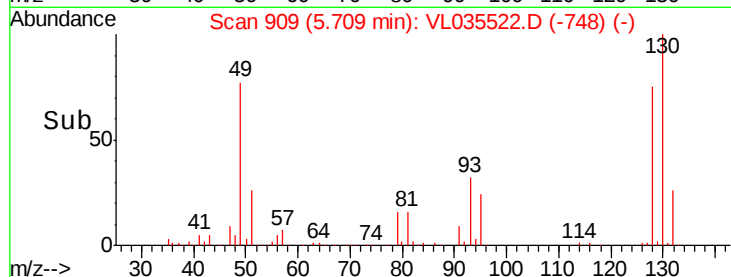
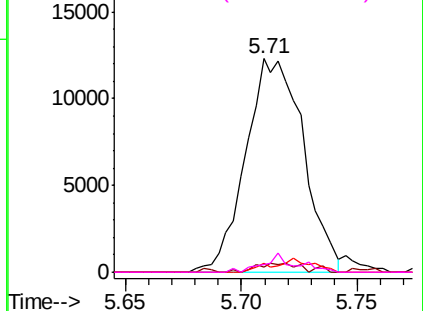
#25
Ethyl Acetate
Concen: 0.111 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.02 min
Lab File: VL035522.D
Acq: 27 Aug 2020 17:00

Instrument :
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Tot Ion: 43 Resp: 21153
Ion Ratio Lower Upper
43 100
45 4.5 8.4 12.6#
61 4.5 10.6 16.0#
70 4.9 9.4 14.2#

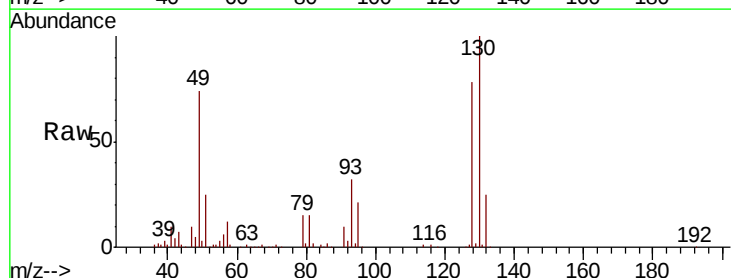


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

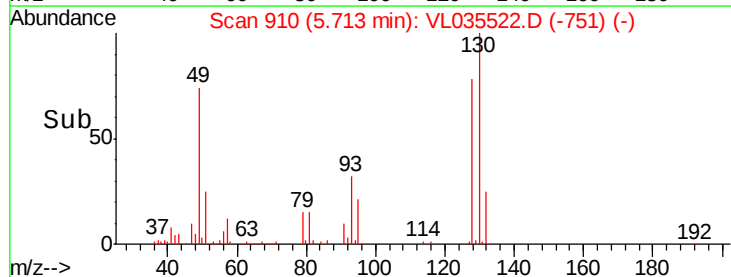
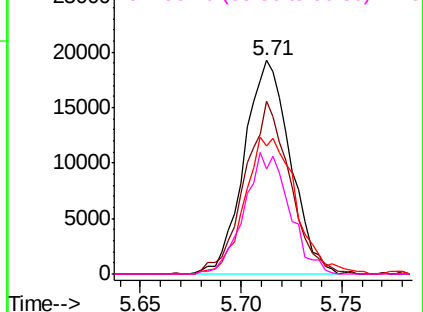


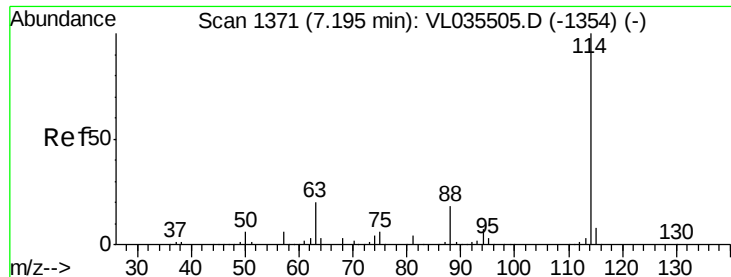
#26
Hexane
Concen: 0.286 ppbv
RT: 5.71 min Scan# 910
Delta R.T. 0.01 min
Lab File: VL035522.D
Acq: 27 Aug 2020 17:00

Tgt Ion: 57 Resp: 30930
Ion Ratio Lower Upper
57 100
41 78.8 55.9 83.9
43 70.6 141.8 212.8#
56 55.3 41.8 62.8



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

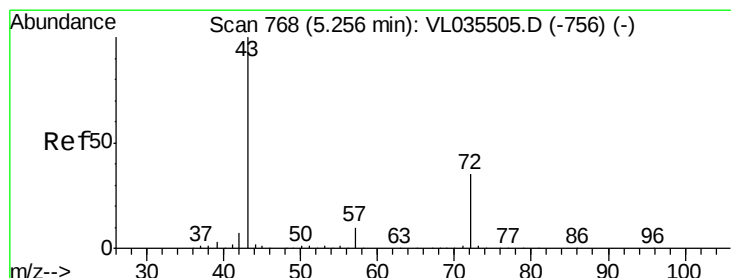
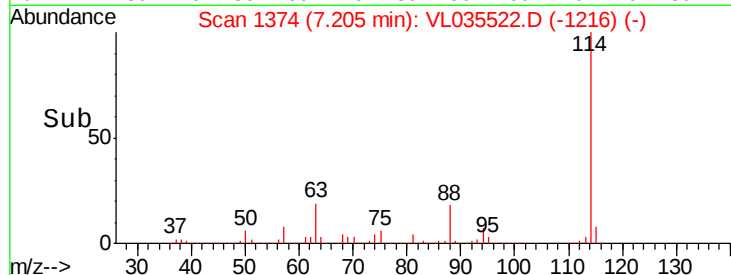
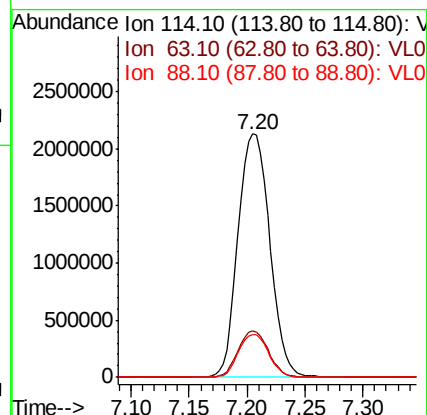
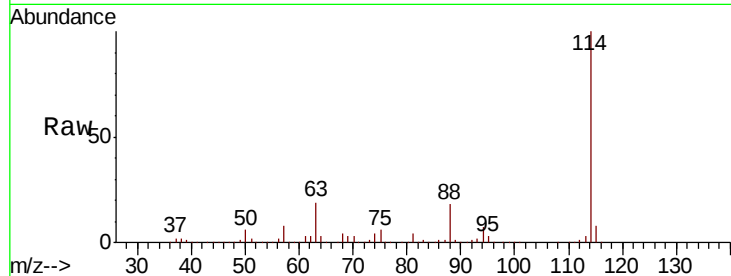




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1374
 Delta R.T. 0.01 min
 Lab File: VL035522.D
 Acq: 27 Aug 2020 17:00

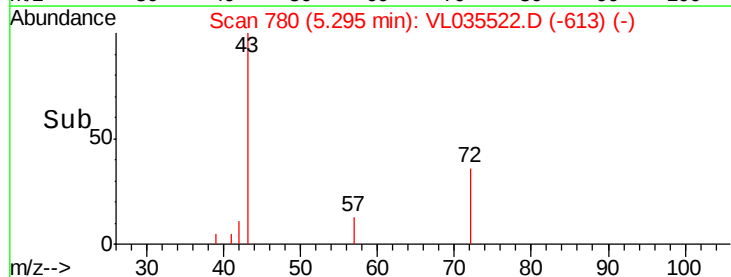
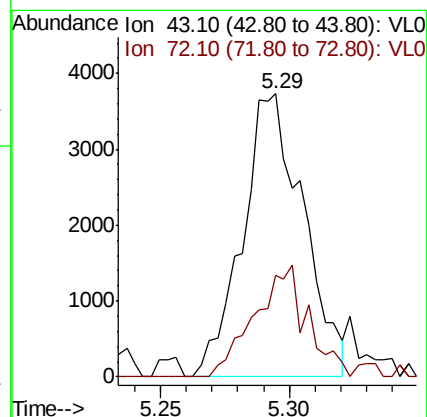
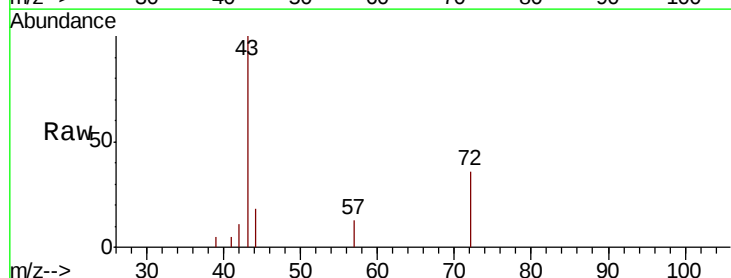
Instrument :
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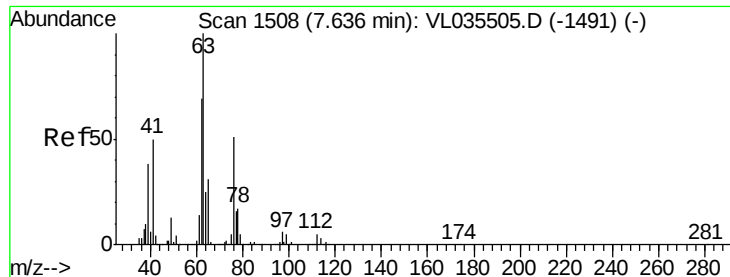
Tot Ion:114 Resp: 4066349
 Ion Ratio Lower Upper
 114 100
 63 18.4 14.7 22.1
 88 16.8 13.4 20.2



#34
 2-Butanone
 Concen: 0.051 ppbv
 RT: 5.29 min Scan# 780
 Delta R.T. 0.04 min
 Lab File: VL035522.D
 Acq: 27 Aug 2020 17:00

Tgt Ion: 43 Resp: 6164
 Ion Ratio Lower Upper
 43 100
 72 36.1 27.7 41.5





#39

1,2-Dichloropropane

Concen: 8.373 ppbv

RT: 7.20 min Scan# 1374

Delta R.T. -0.43 min

Lab File: VL035522.D

Acq: 27 Aug 2020 17:00

Instrument :

MSVOA_L

ClientSampled :

CAN 10608

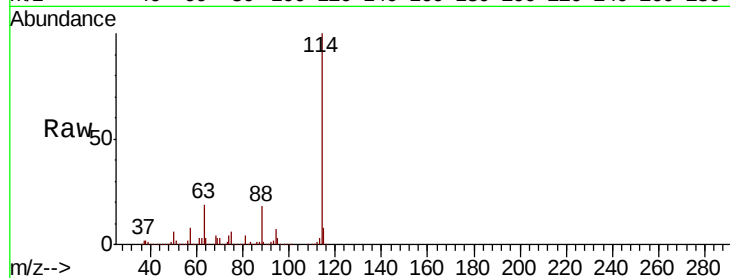
Tot Ion: 63 Resp: 744524

Ion Ratio Lower Upper

63 100

41 0.1 40.0 60.0#

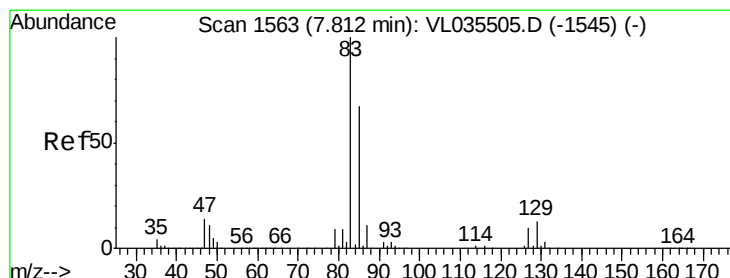
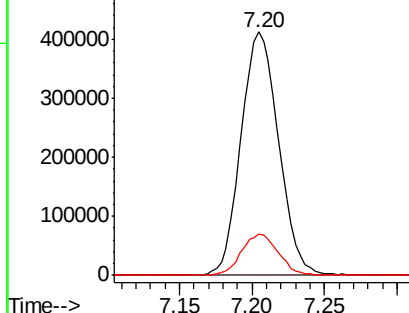
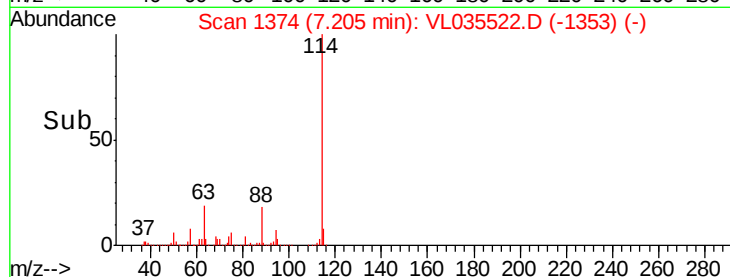
62 16.9 55.4 83.0#



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



#42

Bromodichloromethane

Concen: 0.032 ppbv

RT: 7.82 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VL035522.D

Acq: 27 Aug 2020 17:00

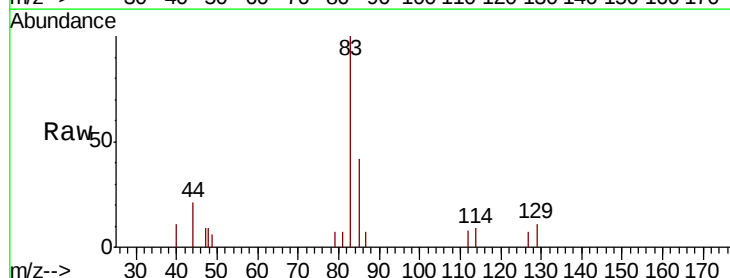
Tgt Ion: 83 Resp: 6405

Ion Ratio Lower Upper

83 100

85 42.2 53.7 80.5#

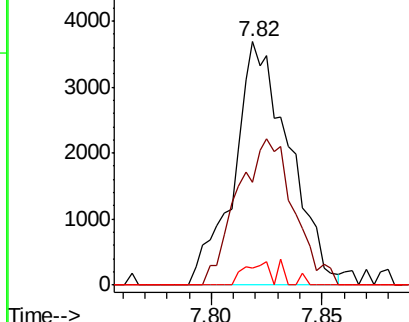
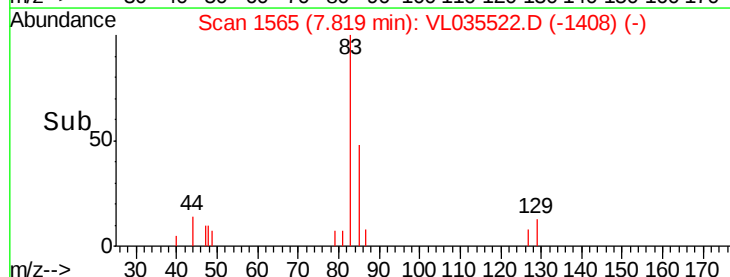
127 7.2 8.1 12.1#

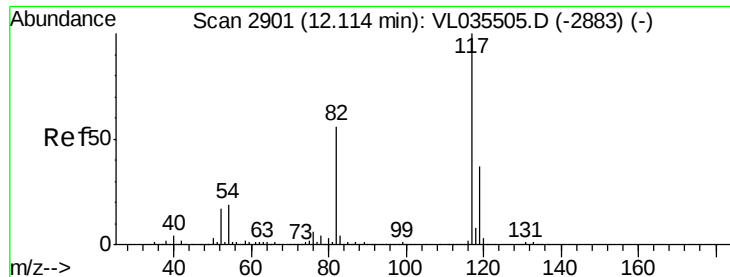


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

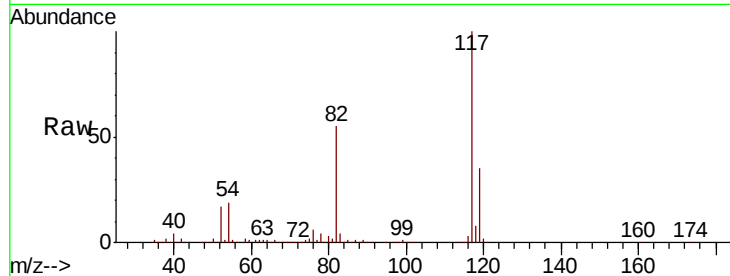




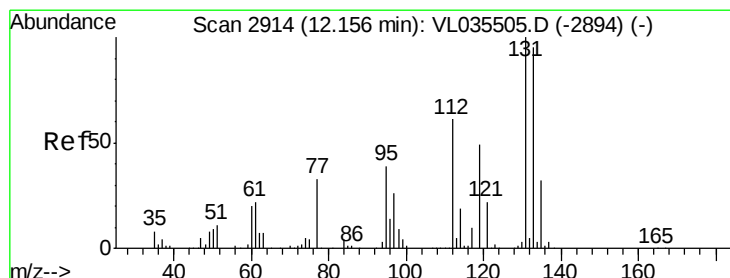
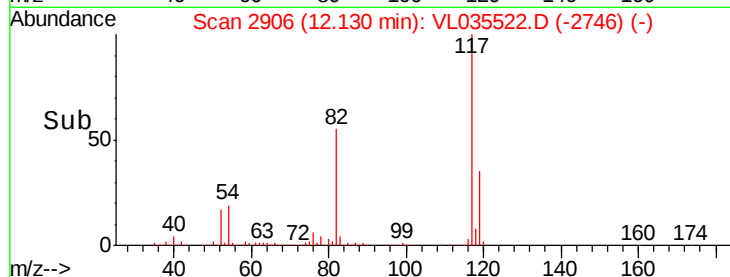
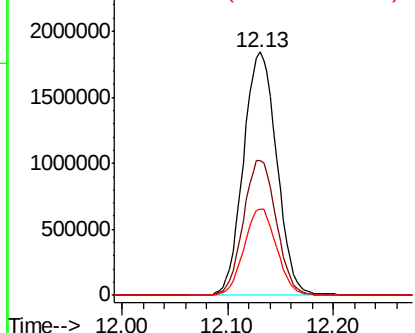
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.13 min Scan# 2906
Delta R.T. 0.02 min
Lab File: VL035522.D
Acq: 27 Aug 2020 17:00

Instrument :
MSVOA_L
ClientSampleId :
CAN 10608

Tot Ion:117 Resp: 4066230
Ion Ratio Lower Upper
117 100
82 55.3 41.6 62.4
119 34.9 29.3 43.9

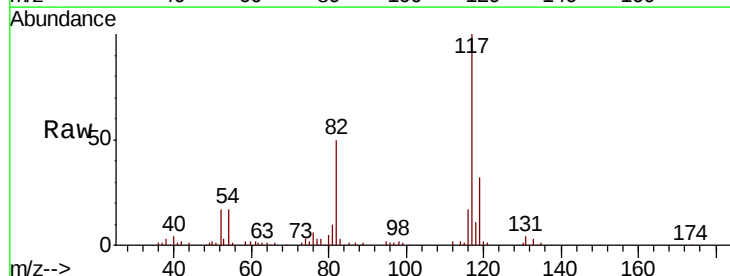


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): V
Ion 119.10 (118.80 to 119.80): V

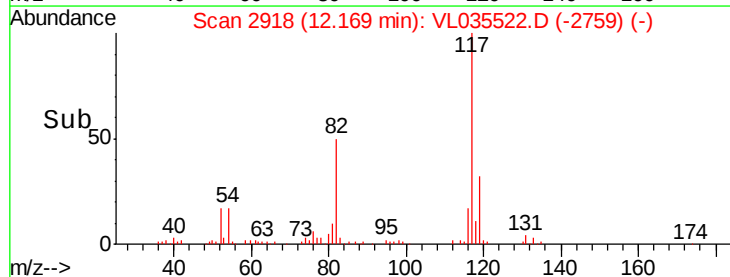
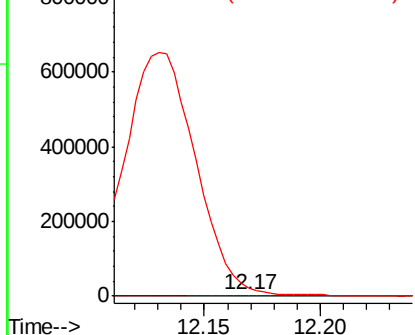


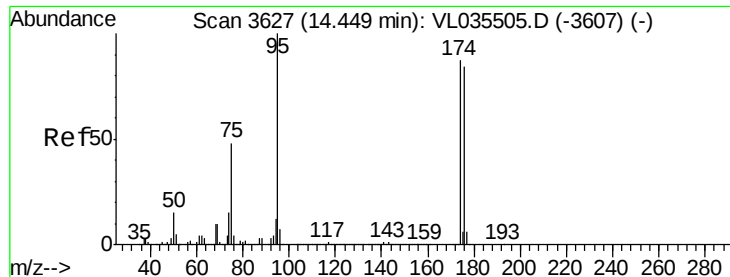
#56
1,1,1,2-Tetrachloroethane
Concen: 0.030 ppbv
RT: 12.17 min Scan# 2918
Delta R.T. 0.01 min
Lab File: VL035522.D
Acq: 27 Aug 2020 17:00

Tgt Ion:131 Resp: 5018
Ion Ratio Lower Upper
131 100
133 97.9 76.6 115.0
119 0.0 51.6 77.4#



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V

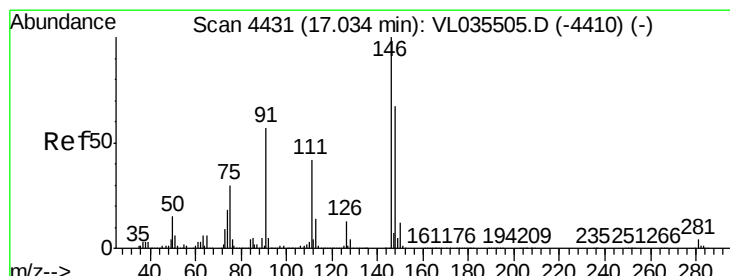
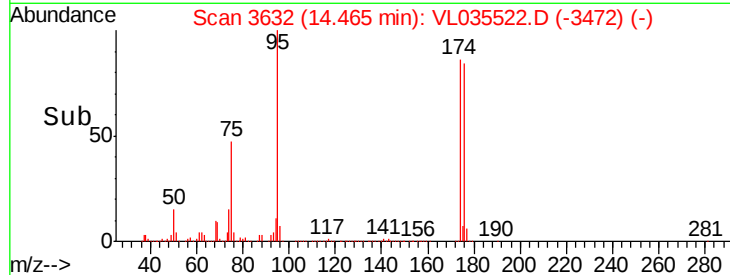
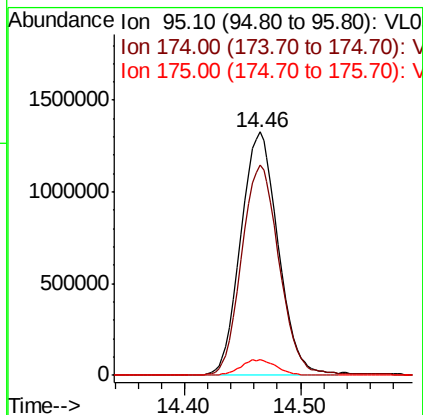
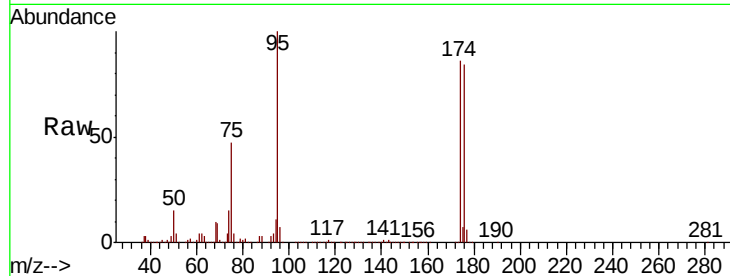




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.310 ppbv
 RT: 14.46 min Scan# 3632
 Delta R.T. 0.02 min
 Lab File: VL035522.D
 Acq: 27 Aug 2020 17:00

Instrument :
 MSVOA_L
 ClientSampleId :
 CAN 10608

Tot Ion: 95 Resp: 2977211
 Ion Ratio Lower Upper
 95 100
 174 88.1 69.6 104.4
 175 6.4 5.1 7.7



#75
 1,3-Dichlorobenzene
 Concen: 0.034 ppbv
 RT: 17.06 min Scan# 4438
 Delta R.T. 0.02 min
 Lab File: VL035522.D
 Acq: 27 Aug 2020 17:00

Tgt Ion: 146 Resp: 11506
 Ion Ratio Lower Upper
 146 100
 111 45.9 20.7 62.1
 148 66.4 33.0 98.9

