

Data File : VL035671.D
Acq On : 18 Sep 2020 00:32
Operator : SY/AP
Sample : L3983-01DL2 300X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV-8DL2

Quant Time: Sep 18 02:35:56 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 15:19:50 2020
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1111103	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	4221318	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	4233197	10.00	ppbv	0.02

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.44 95 3090190 10.28 ppbv 0.01
Spiked Amount 10.000 Range 65 - 135 Recovery = 102.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Vinyl Chloride	3.26	62	9809	0.121	ppbv	99
9) Propene	3.01	41	12302	0.260	ppbv	92
13) Ethanol	3.62	45	6166	0.525	ppbv	100
15) Acetone	3.85	43	359799	2.936	ppbv	96
18) 1,1-Dichloroethene	4.29	96	29664	0.318	ppbv	95
20) Methylene Chloride	4.34	84	19035	0.209	ppbv	91
22) trans-1,2-Dichloroethene	4.89	96	51369	0.517	ppbv	95
26) Hexane	5.69	57	4749	0.039	ppbv #	43
29) Chloroform	5.75	83	8157	0.033	ppbv	85
31) cis-1,2-Dichloroethene	5.55	61	1760641	13.990	ppbv	97
34) 2-Butanone	5.27	43	23664	0.189	ppbv	98
36) Benzene	6.90	78	13141	0.048	ppbv #	91
38) Trichloroethene	7.85	130	6516422	41.055	ppbv #	93
39) 1,2-Dichloropropane	7.84	63	24694	0.268	ppbv #	1
42) Bromodichloromethane	7.85	83	98771	0.469	ppbv #	86
44) 2,2,4-Trimethylpentane	7.88	57	169187	0.471	ppbv	94
52) Tetrachloroethene	11.24	164	8059882	50.490	ppbv #	79
53) Toluene	9.82	91	23181	0.067	ppbv	92

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

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ClientSampleId :

SV-8DL2

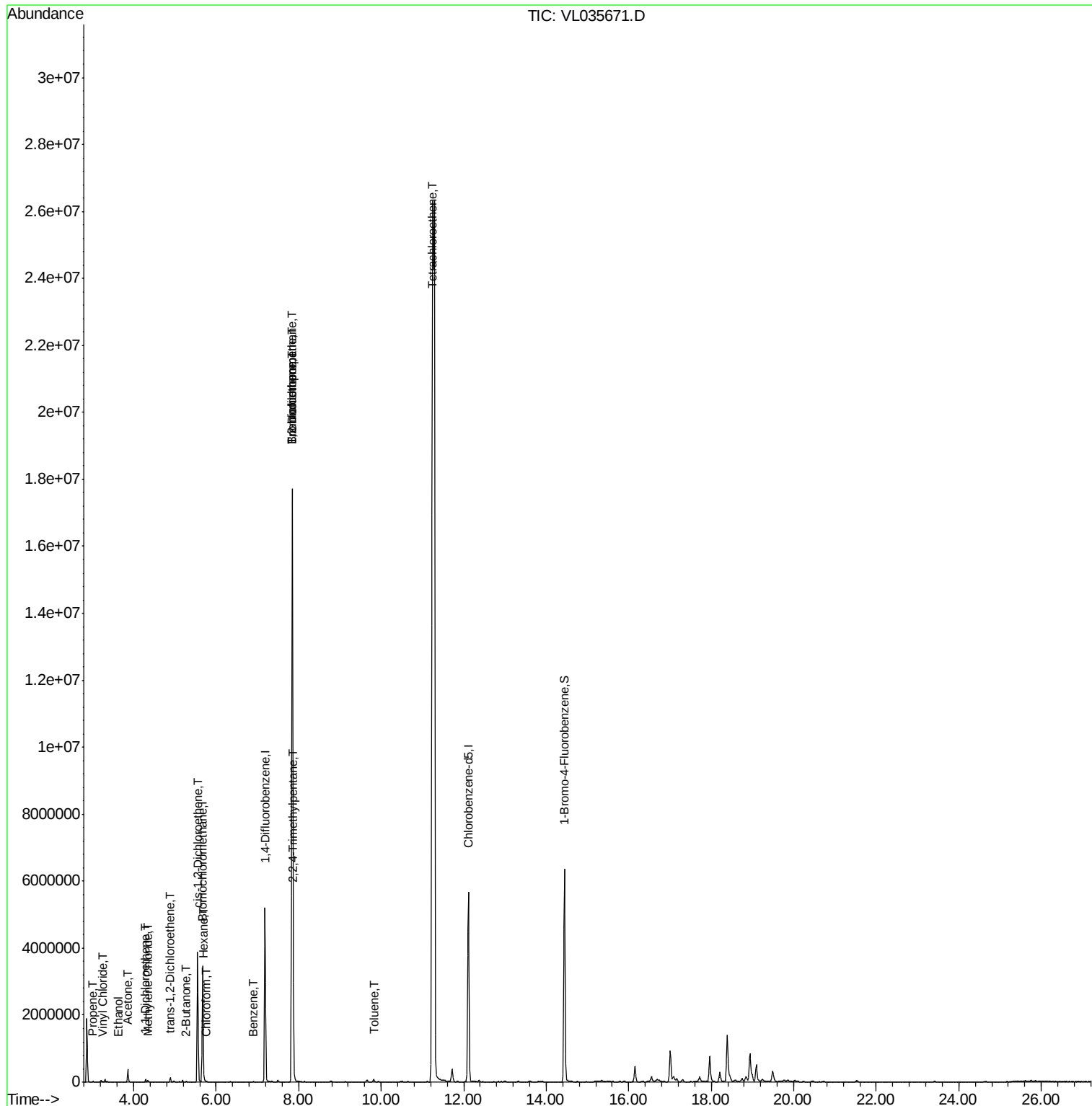
Quant Time: Sep 18 02:35:56 2020

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL082720AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 15:19:50 2020

QLast Update : Mon Sep 14 15:19:50 2020

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.01 min

Lab File: VL035671.D

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ClientSampleId :

SV-8DL2

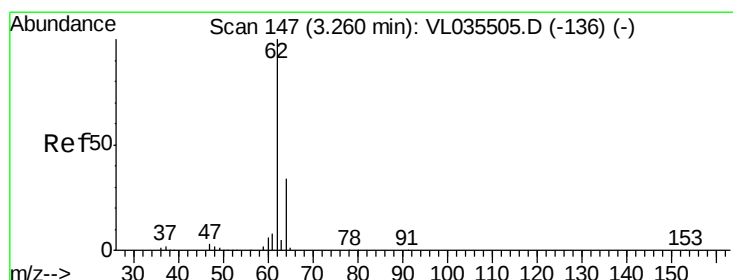
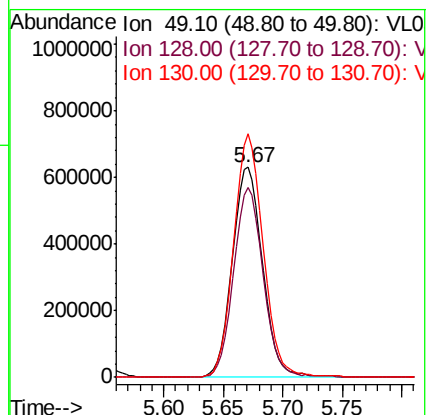
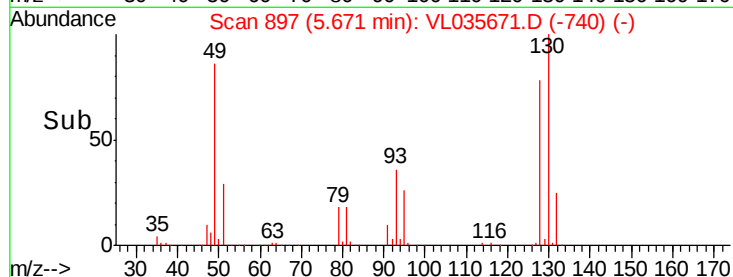
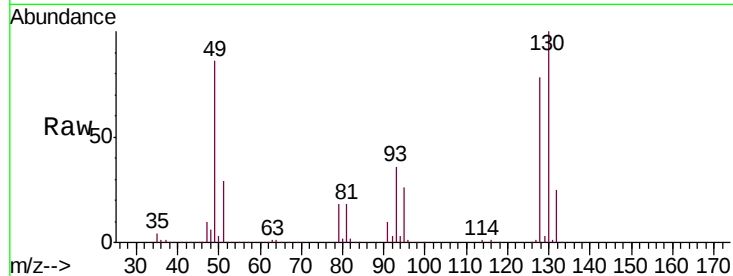
Tgt Ion: 49 Resp: 1111103

Ion Ratio Lower Upper

49 100

128 89.1 50.0 150.1

130 113.9 64.4 193.2



#5

Vinyl Chloride

Concen: 0.121 ppbv

RT: 3.26 min Scan# 146

Delta R.T. 0.01 min

Lab File: VL035671.D

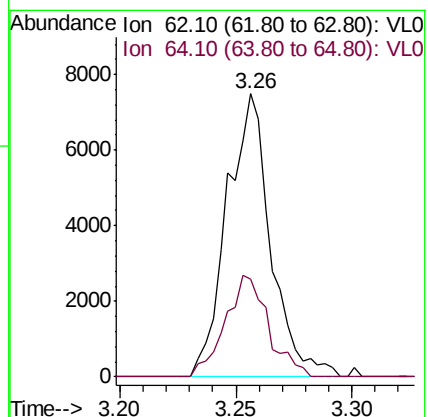
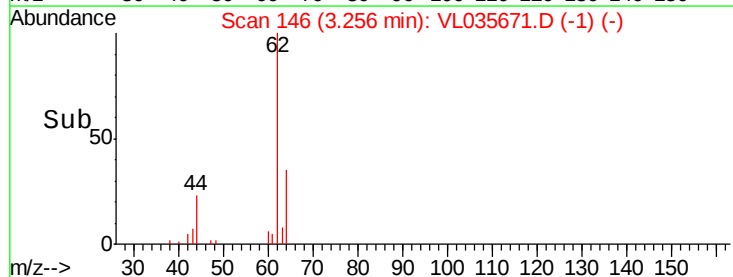
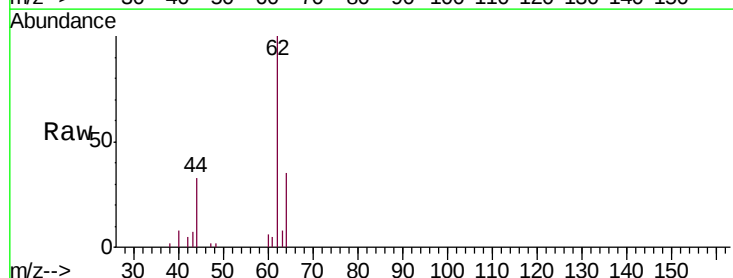
Acq: 18 Sep 2020 00:32

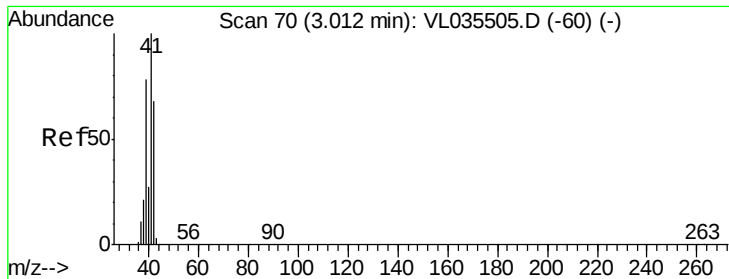
Tgt Ion: 62 Resp: 9809

Ion Ratio Lower Upper

62 100

64 34.6 27.4 41.2





#9

Propene

Concen: 0.260 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.02 min

Lab File: VL035671.D

Acq: 18 Sep 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

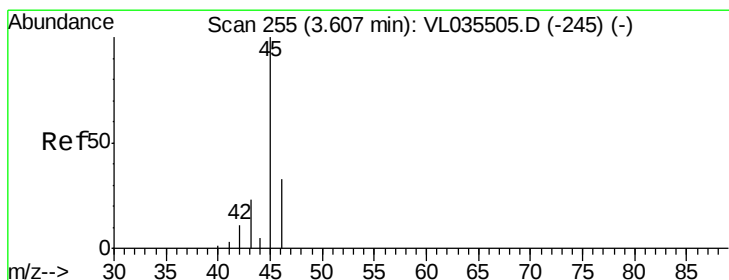
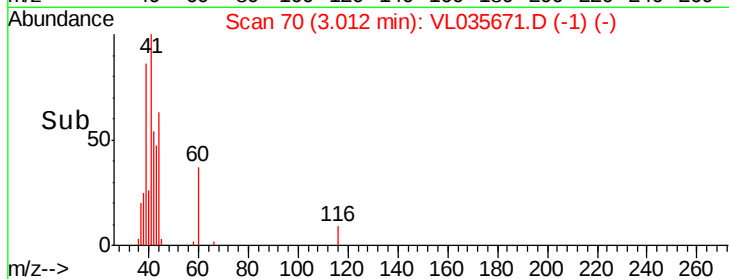
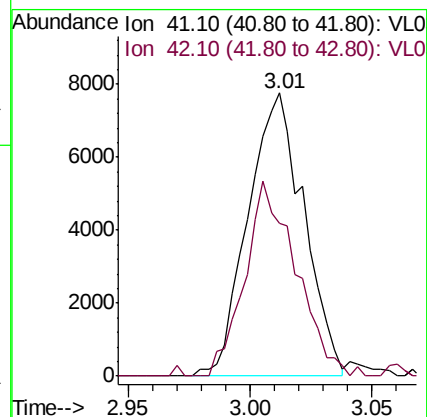
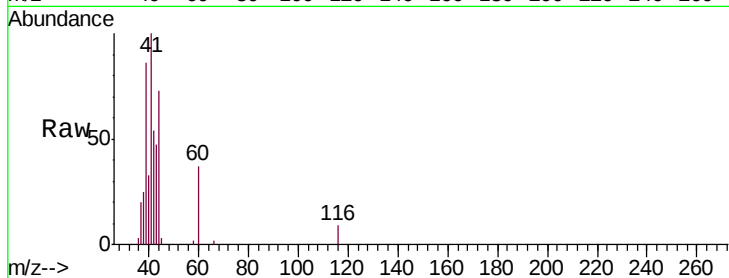
SV-8DL2

Tgt Ion: 41 Resp: 12302

Ion Ratio Lower Upper

41 100

42 63.4 56.3 84.5



#13

Ethanol

Concen: 0.525 ppbv

RT: 3.62 min Scan# 255

Delta R.T. 0.02 min

Lab File: VL035671.D

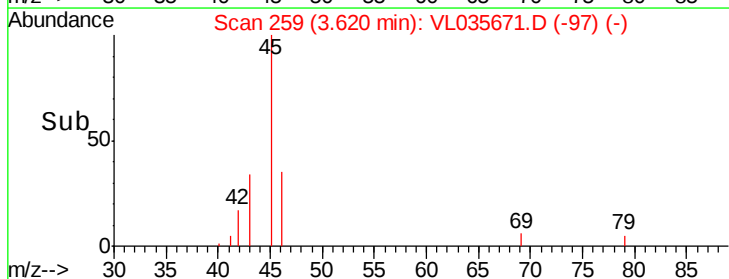
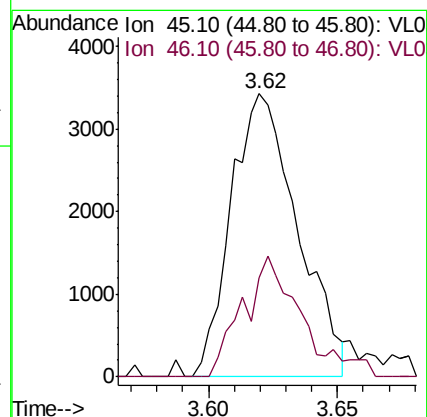
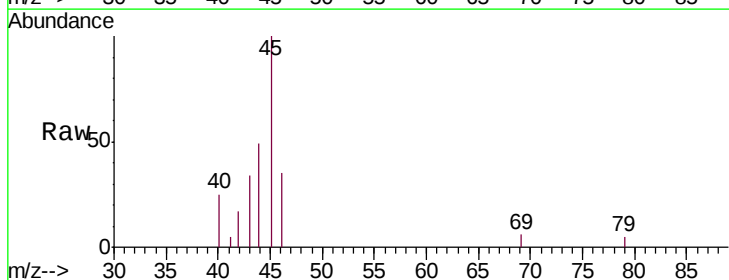
Acq: 18 Sep 2020 00:32

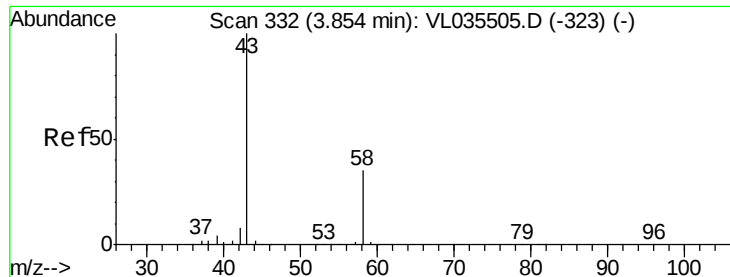
Tgt Ion: 45 Resp: 6166

Ion Ratio Lower Upper

45 100

46 37.7 15.2 60.6





#15

Acetone

Concen: 2.936 ppbv

RT: 3.85 min Scan# 332

Delta R.T. 0.02 min

Lab File: VL035671.D

Acq: 18 Sep 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

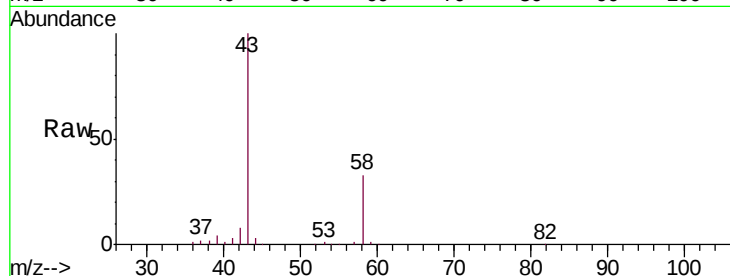
SV-8DL2

Tgt Ion: 43 Resp: 359799

Ion Ratio Lower Upper

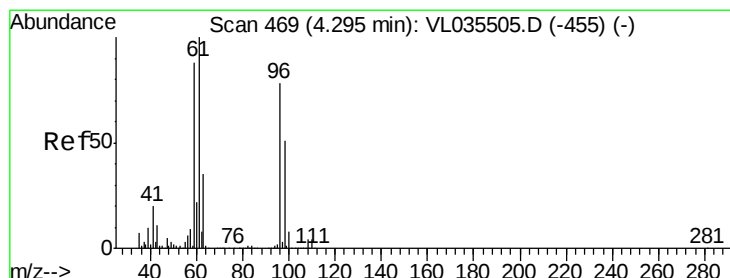
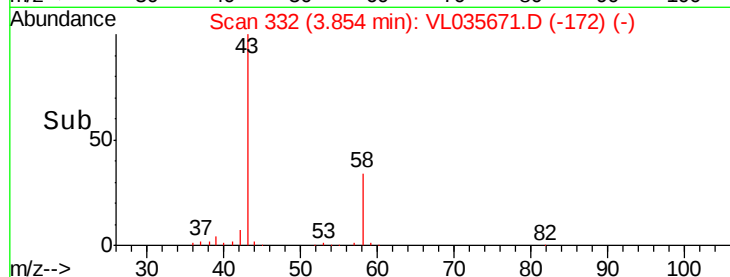
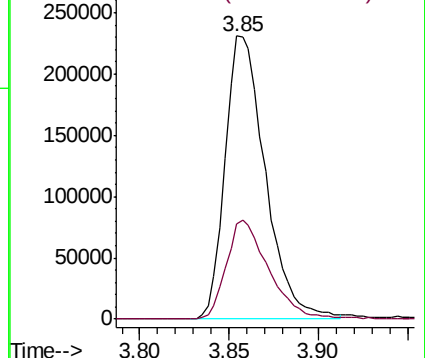
43 100

58 37.6 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#18

1,1-Dichloroethene

Concen: 0.318 ppbv

RT: 4.29 min Scan# 467

Delta R.T. 0.01 min

Lab File: VL035671.D

Acq: 18 Sep 2020 00:32

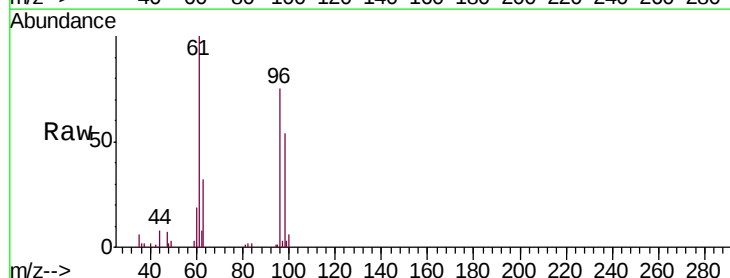
Tgt Ion: 96 Resp: 29664

Ion Ratio Lower Upper

96 100

61 133.2 103.0 154.6

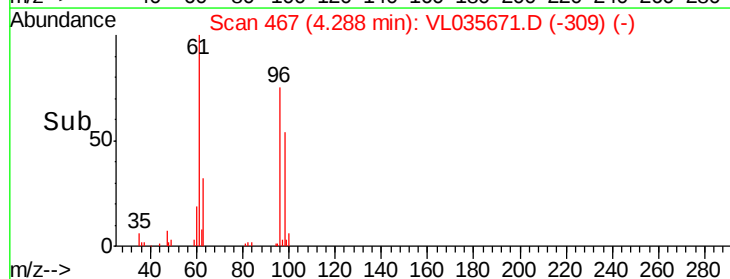
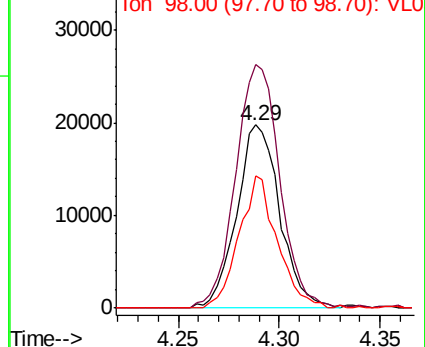
98 72.0 52.8 79.2

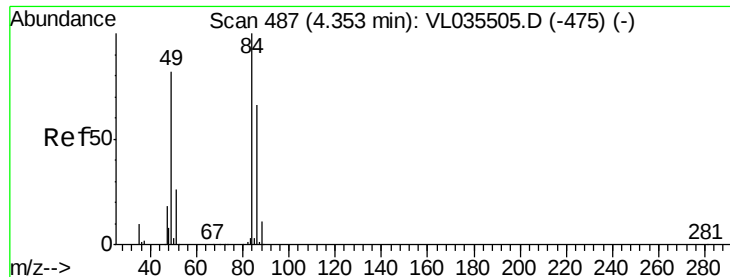


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

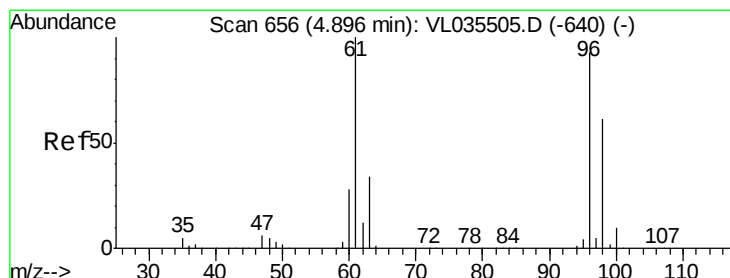
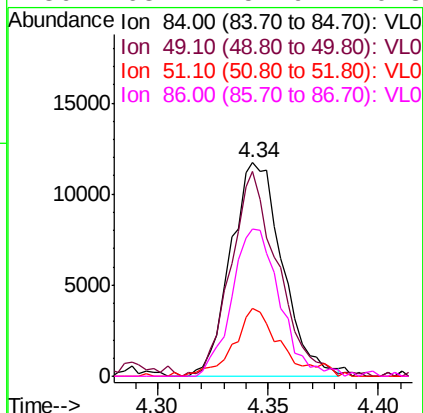
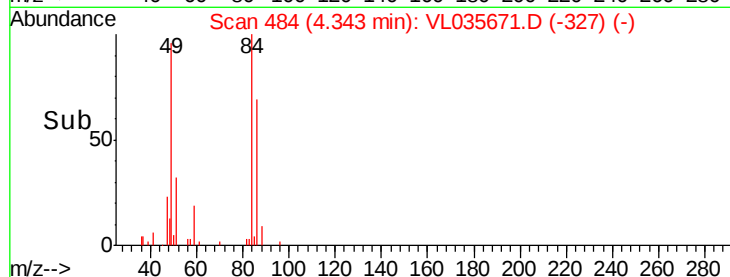
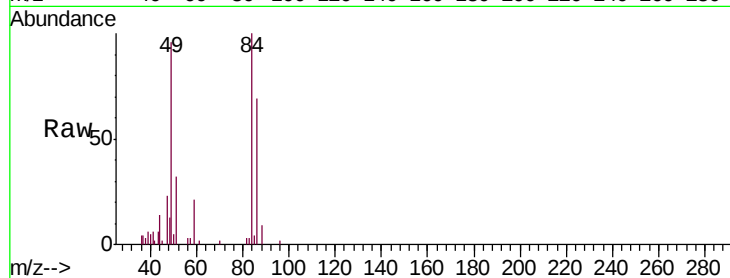




#20
Methylene Chloride
Concen: 0.209 ppbv
RT: 4.34 min Scan# 484
Delta R.T. 0.01 min
Lab File: VL035671.D
Acq: 18 Sep 2020 00:32

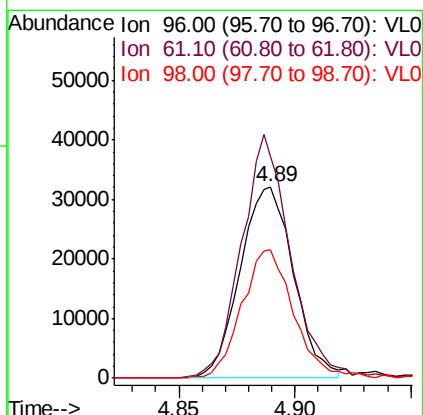
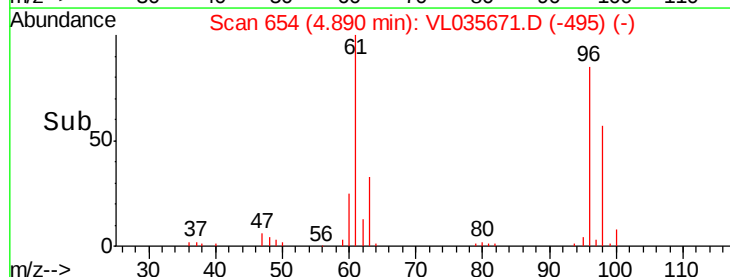
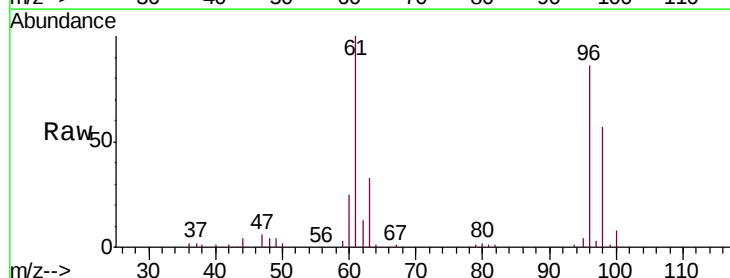
Instrument :
MSVOA_L
ClientSampleId :
SV-8DL2

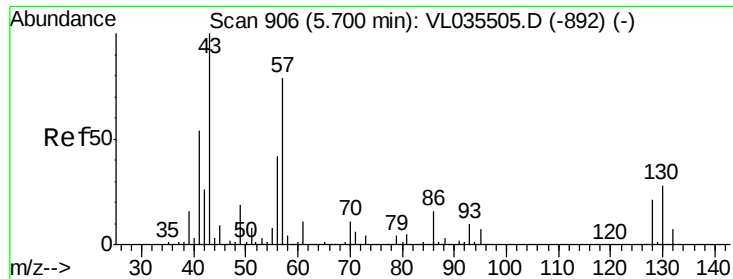
Tgt Ion:	84	Resp:	19035
Ion	Ratio	Lower	Upper
84	100		
49	94.7	65.4	98.0
51	31.7	21.5	32.3
86	68.7	52.9	79.3



#22
trans-1,2-Dichloroethene
Concen: 0.517 ppbv
RT: 4.89 min Scan# 654
Delta R.T. 0.01 min
Lab File: VL035671.D
Acq: 18 Sep 2020 00:32

Tgt Ion:	96	Resp:	51369
Ion	Ratio	Lower	Upper
96	100		
61	115.4	86.0	129.0
98	66.2	52.3	78.5

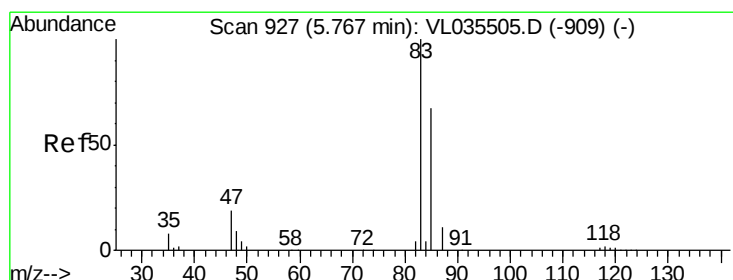
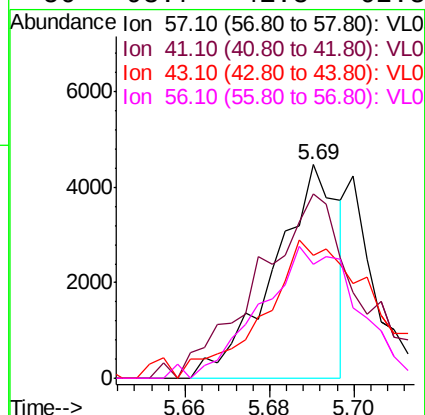
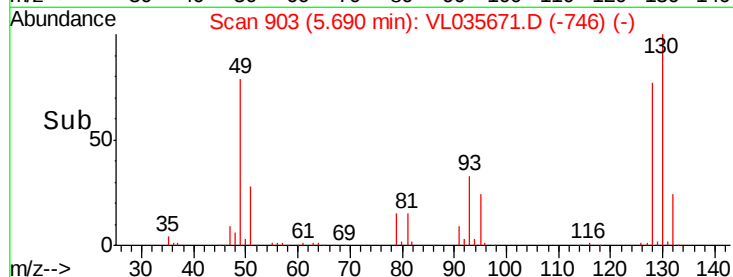
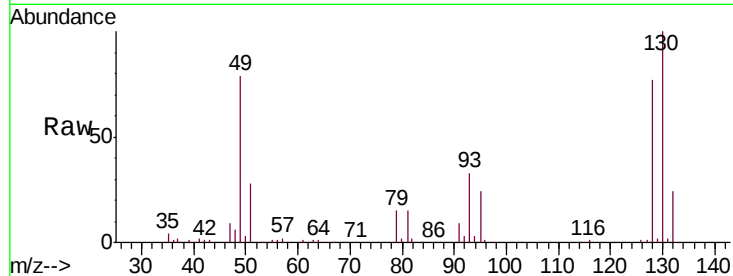




#26
Hexane
Concen: 0.039 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL035671.D
Acq: 18 Sep 2020 00:32

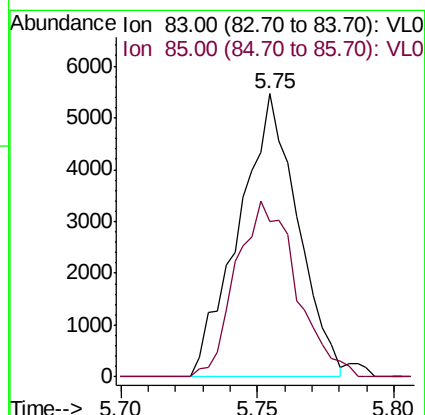
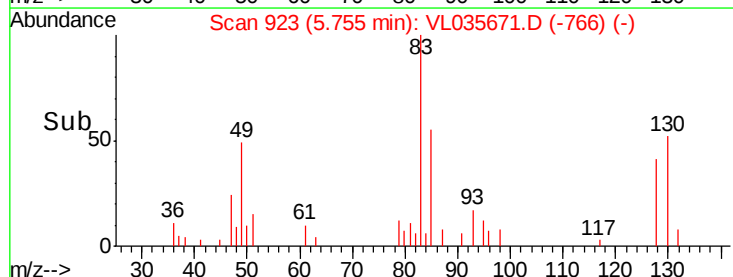
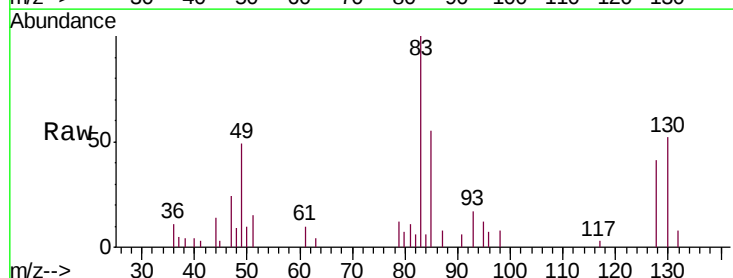
Instrument :
MSVOA_L
ClientSampleId :
SV-8DL2

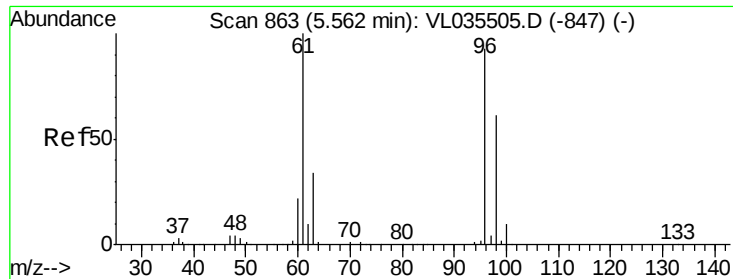
Tgt Ion: 57 Resp: 4749
Ion Ratio Lower Upper
57 100
41 145.2 55.9 83.9#
43 116.4 141.8 212.8#
56 93.7 41.8 62.8#



#29
Chloroform
Concen: 0.033 ppbv
RT: 5.75 min Scan# 923
Delta R.T. 0.01 min
Lab File: VL035671.D
Acq: 18 Sep 2020 00:32

Tgt Ion: 83 Resp: 8157
Ion Ratio Lower Upper
83 100
85 55.0 53.9 80.9



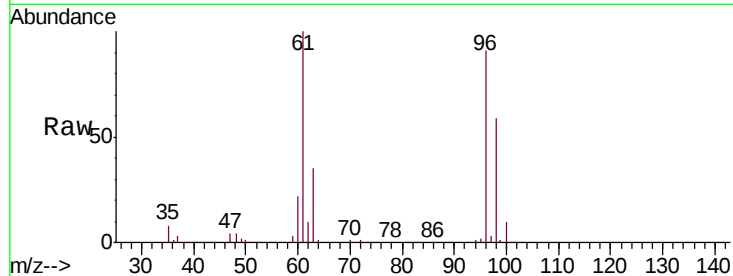


#31

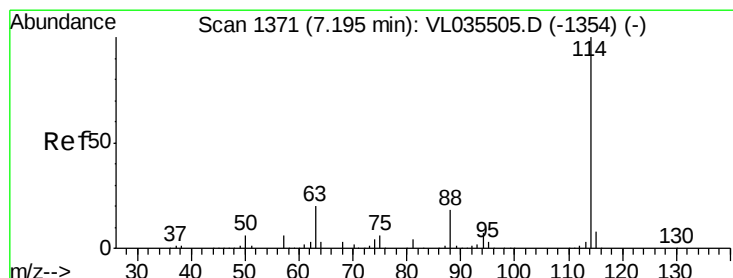
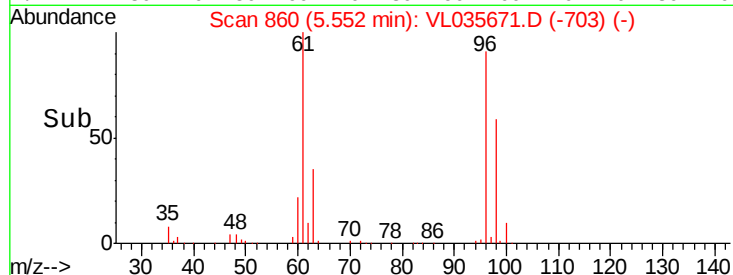
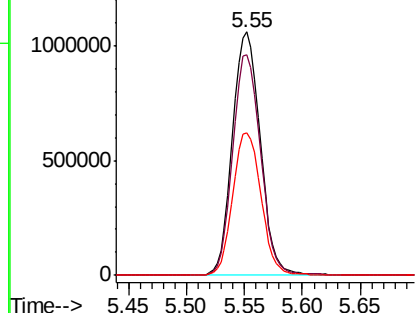
cis-1,2-Dichloroethene
 Concen: 13.990 ppbv
 RT: 5.55 min Scan# 860
 Delta R.T. 0.01 min
 Lab File: VL035671.D
 Acq: 18 Sep 2020 00:32

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-8DL2

Tgt Ion: 61 Resp: 1760641
 Ion Ratio Lower Upper
 61 100
 96 90.8 74.4 111.6
 98 58.8 49.2 73.8



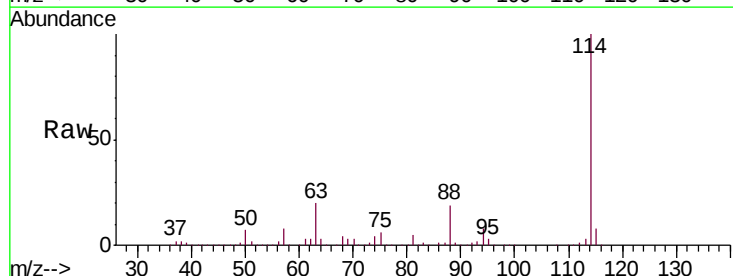
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



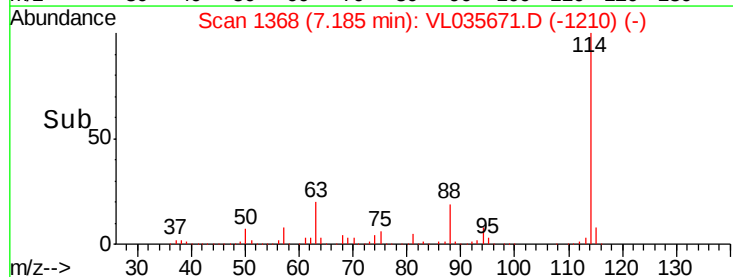
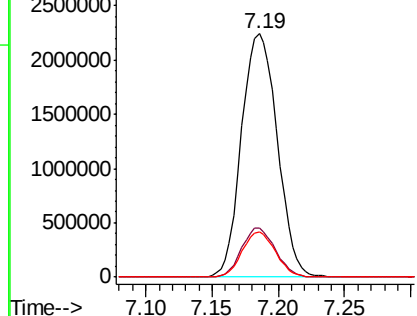
#33

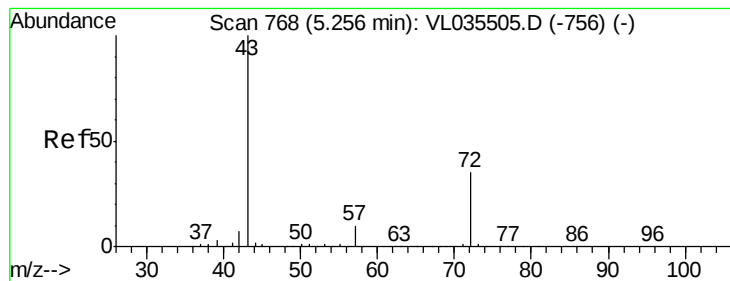
1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.01 min
 Lab File: VL035671.D
 Acq: 18 Sep 2020 00:32

Tgt Ion: 114 Resp: 4221318
 Ion Ratio Lower Upper
 114 100
 63 19.2 14.7 22.1
 88 17.3 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





#34

2-Butanone

Concen: 0.189 ppbv

RT: 5.27 min Scan# 773

Delta R.T. 0.03 min

Lab File: VL035671.D

Acq: 18 Sep 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

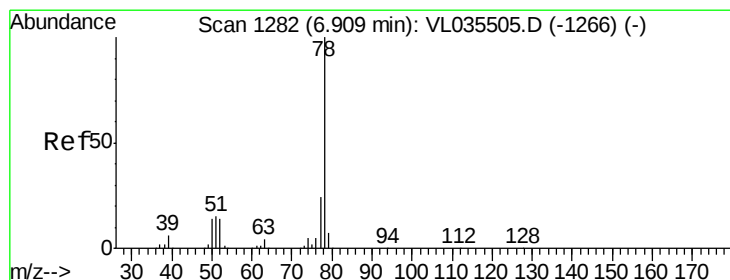
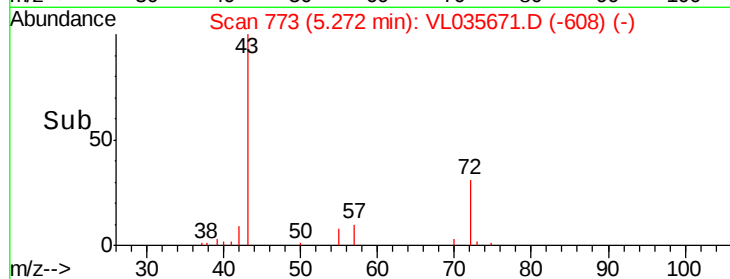
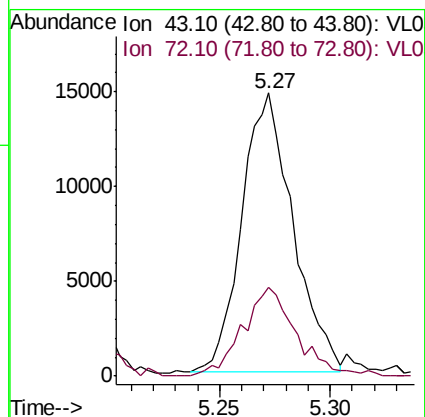
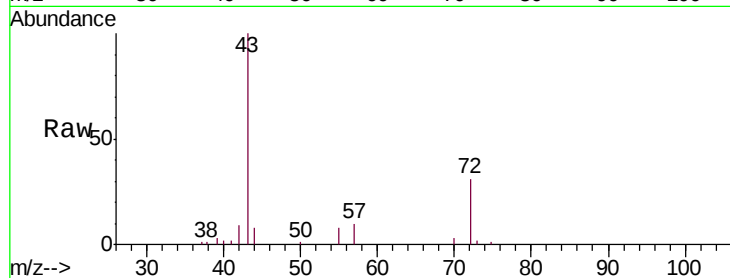
SV-8DL2

Tgt Ion: 43 Resp: 23664

Ion Ratio Lower Upper

43 100

72 33.3 27.7 41.5



#36

Benzene

Concen: 0.048 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. 0.01 min

Lab File: VL035671.D

Acq: 18 Sep 2020 00:32

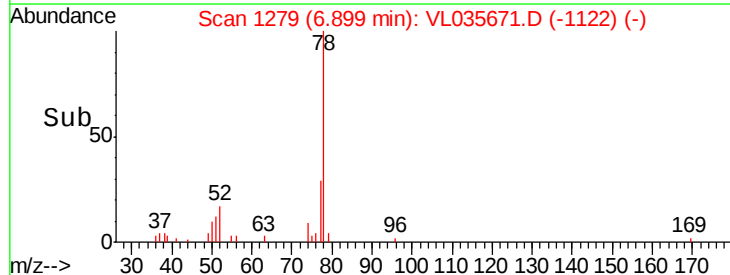
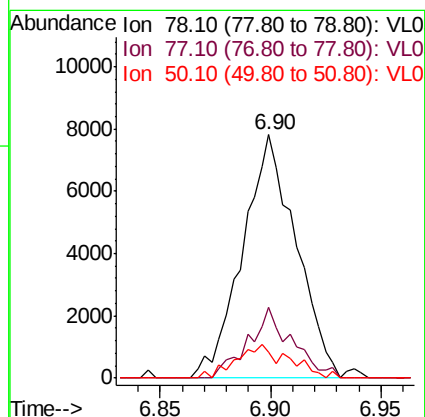
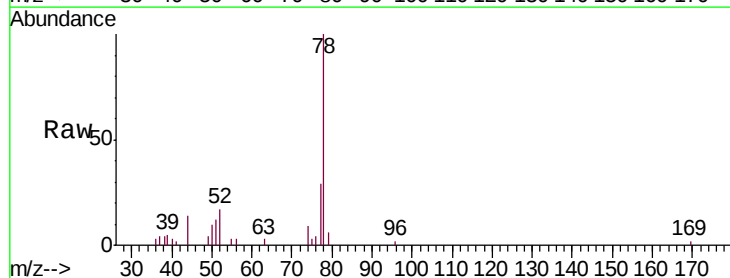
Tgt Ion: 78 Resp: 13141

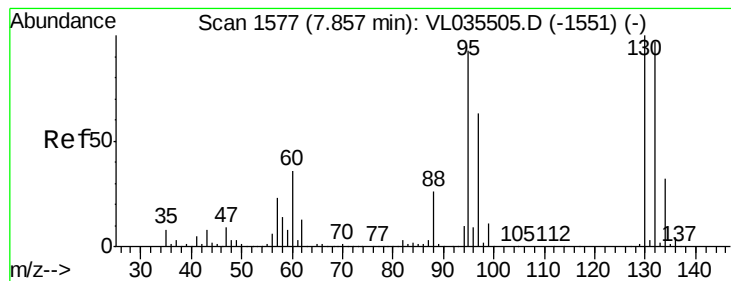
Ion Ratio Lower Upper

78 100

77 29.0 19.3 28.9#

50 10.5 11.0 16.6#





#38

Trichloroethene

Concen: 41.055 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VL035671.D

Acq: 18 Sep 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

SV-8DL2

Tgt Ion:130 Resp: 6516422

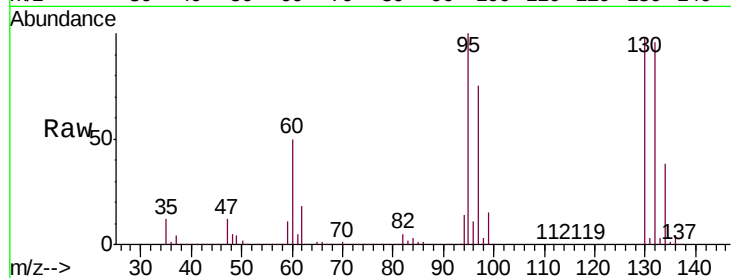
Ion Ratio Lower Upper

130 100

95 101.8 74.6 112.0

132 97.2 77.6 116.4

97 76.3 50.6 76.0#

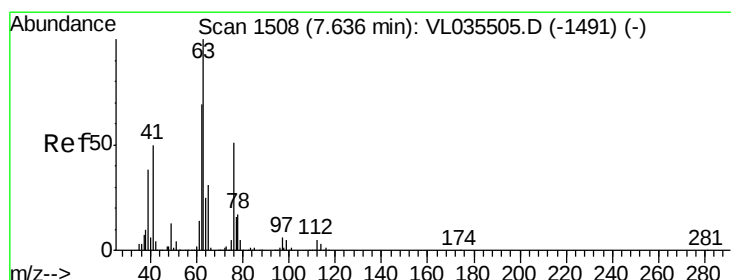
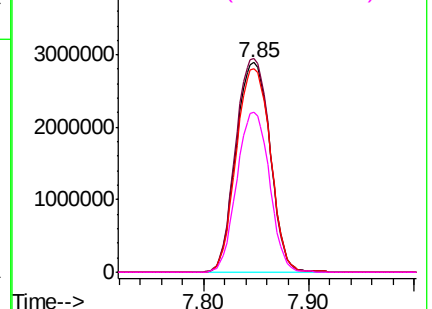
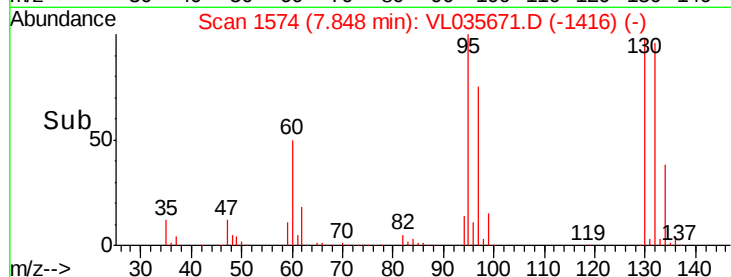


Abundance Ion 130.00 (129.70 to 130.70): V

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: 0.268 ppbv

RT: 7.84 min Scan# 1572

Delta R.T. 0.23 min

Lab File: VL035671.D

Acq: 18 Sep 2020 00:32

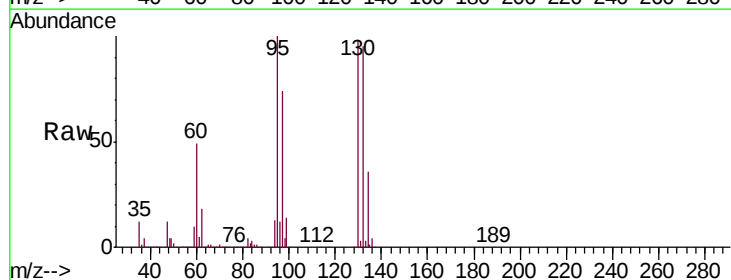
Tgt Ion: 63 Resp: 24694

Ion Ratio Lower Upper

63 100

41 6.3 40.0 60.0#

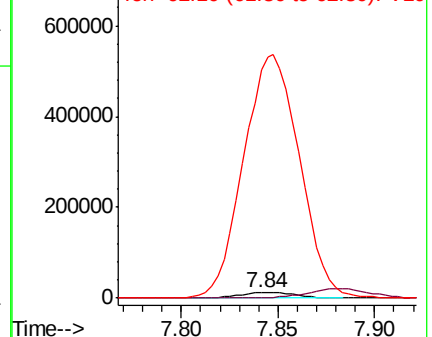
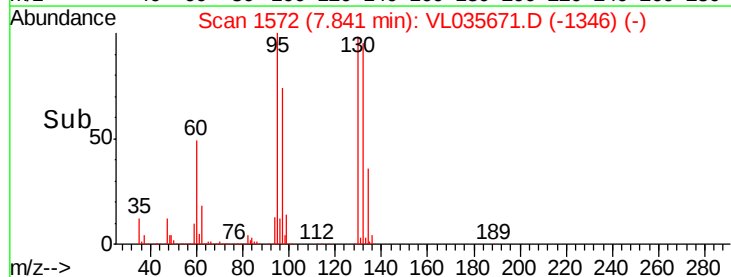
62 4141.1 55.4 83.0#

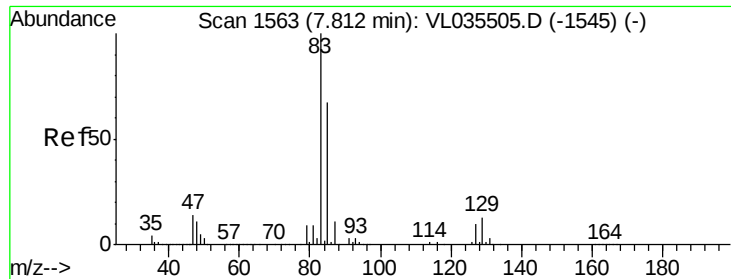


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#42

Bromodichloromethane

Concen: 0.469 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. 0.05 min

Lab File: VL035671.D

Acq: 18 Sep 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

SV-8DL2

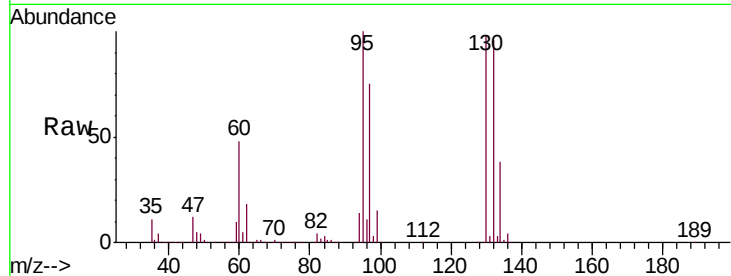
Tgt Ion: 83 Resp: 98771

Ion Ratio Lower Upper

83 100

85 57.9 53.7 80.5

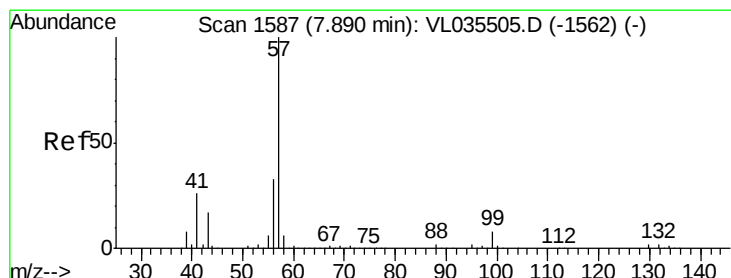
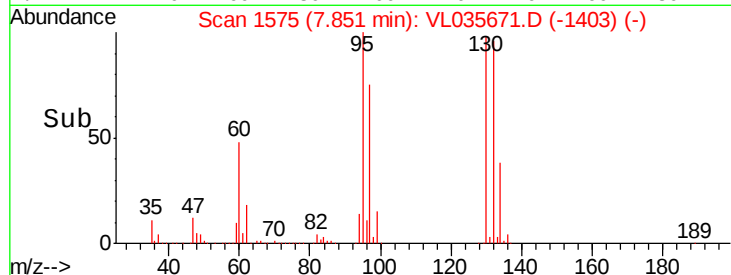
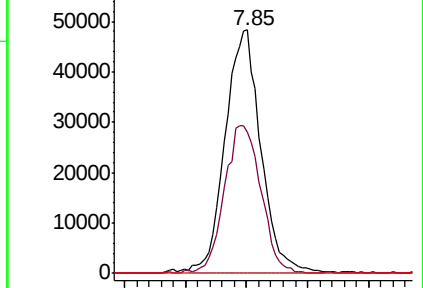
127 0.0 8.1 12.1#



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): VL0



#44

2,2,4-Trimethylpentane

Concen: 0.471 ppbv

RT: 7.88 min Scan# 1584

Delta R.T. 0.01 min

Lab File: VL035671.D

Acq: 18 Sep 2020 00:32

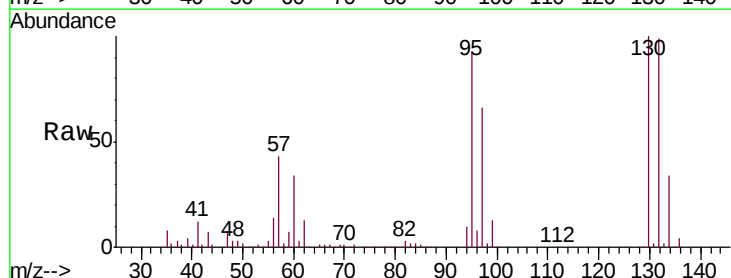
Tgt Ion: 57 Resp: 169187

Ion Ratio Lower Upper

57 100

41 29.7 20.5 30.7

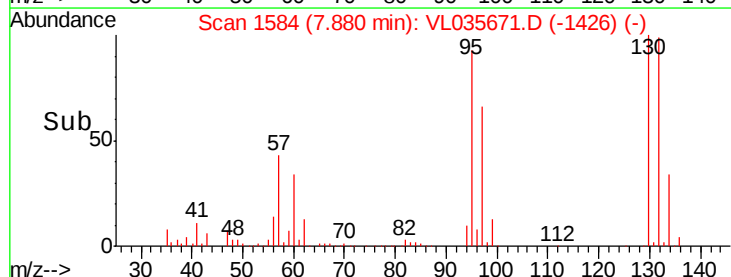
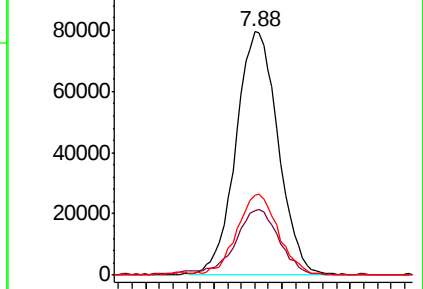
56 33.9 25.3 37.9

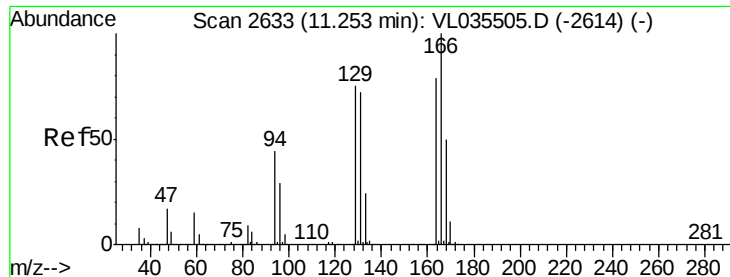


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#52

Tetrachloroethene

Concen: 50.490 ppbv

RT: 11.24 min Scan# 2630

Delta R.T. 0.01 min

Lab File: VL035671.D

Acq: 18 Sep 2020 00:32

Instrument :

MSVOA_L

ClientSampleId :

SV-8DL2

Tgt Ion:164 Resp: 8059882

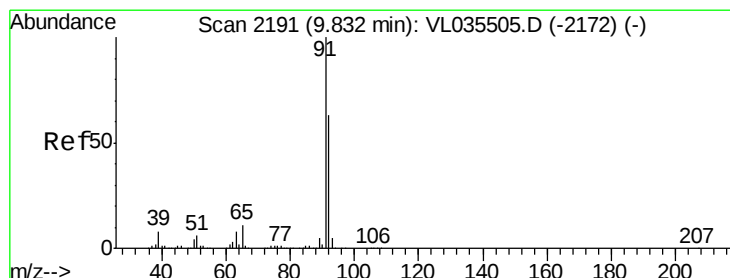
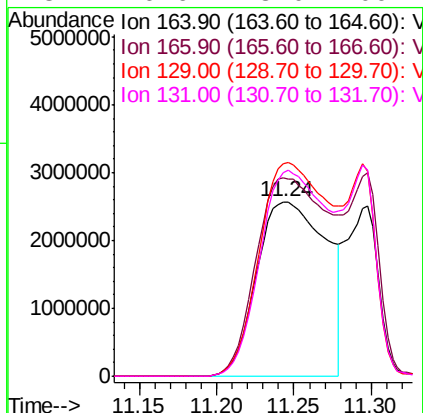
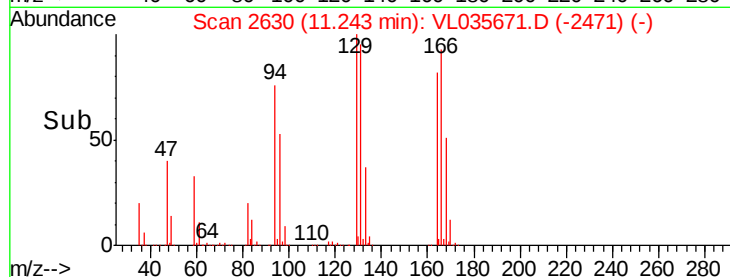
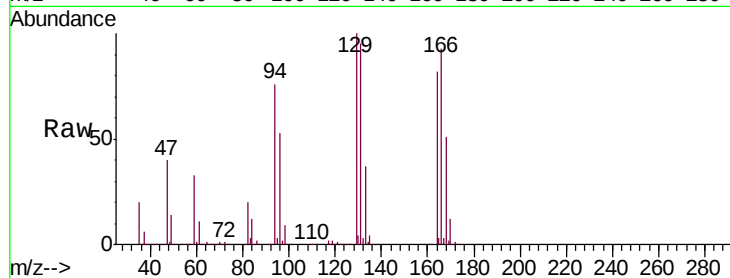
Ion Ratio Lower Upper

164 100

166 113.7 100.9 151.3

129 122.1 75.3 112.9#

131 116.6 73.0 109.4#



#53

Toluene

Concen: 0.067 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. 0.01 min

Lab File: VL035671.D

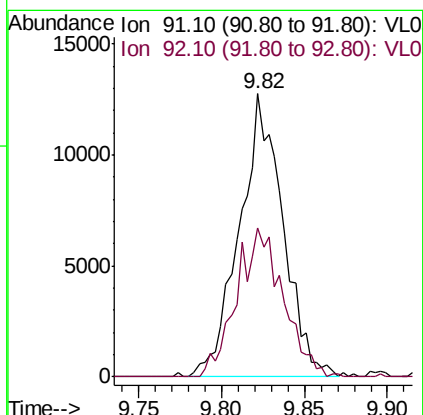
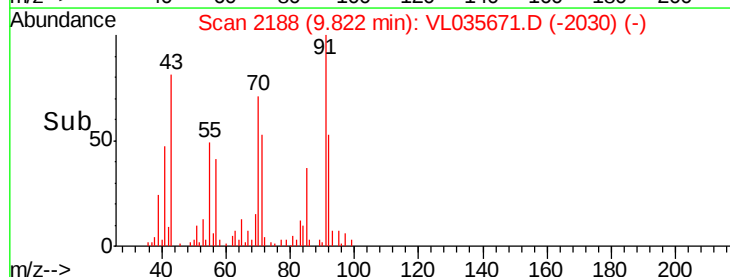
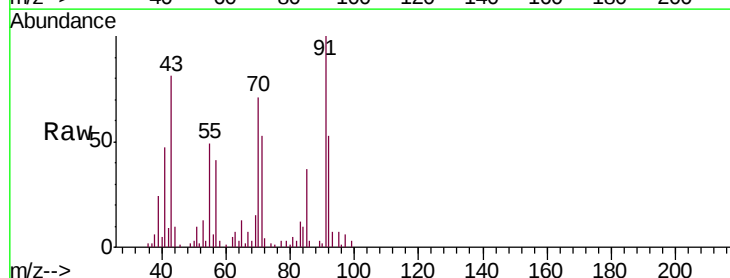
Acq: 18 Sep 2020 00:32

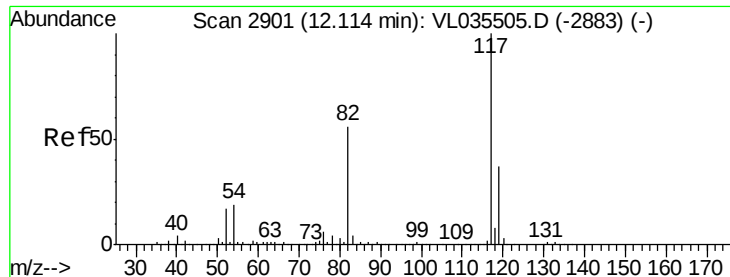
Tgt Ion: 91 Resp: 23181

Ion Ratio Lower Upper

91 100

92 56.4 49.8 74.8

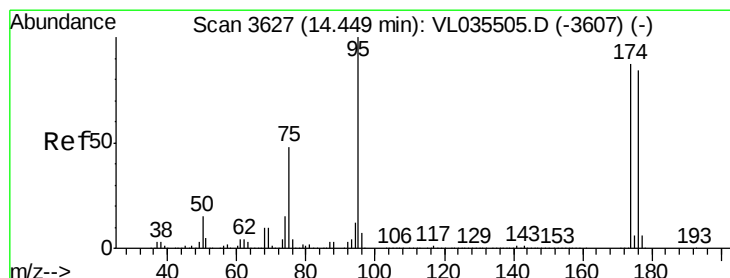
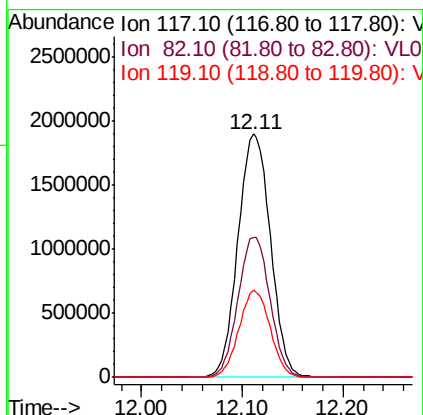
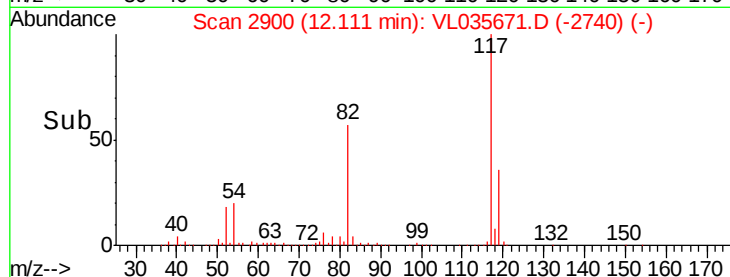
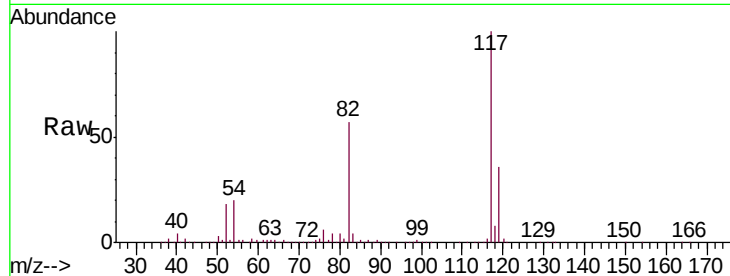




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2900
Delta R.T. 0.02 min
Lab File: VL035671.D
Acq: 18 Sep 2020 00:32

Instrument :
MSVOA_L
ClientSampleId :
SV-8DL2

Tgt Ion: 117 Resp: 4233197
Ion Ratio Lower Upper
117 100
82 56.8 41.6 62.4
119 34.4 29.3 43.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.279 ppbv
RT: 14.44 min Scan# 3625
Delta R.T. 0.01 min
Lab File: VL035671.D
Acq: 18 Sep 2020 00:32

Tgt Ion: 95 Resp: 3090190
Ion Ratio Lower Upper
95 100
174 79.1 69.6 104.4
175 5.7 5.1 7.7

