

Data File : VL035729.D
Acq On : 29 Sep 2020 18:04
Operator : SY/AP
Sample : L4174-01DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA1ADL

Quant Time: Sep 30 02:41:18 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092320AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Sep 23 07:38:05 2020
QLast Update : Wed Sep 23 07:38:05 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1186893	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	4282217	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	4260074	10.00	ppbv	0.00

System Monitoring Compounds
68) 1-Bromo-4-Fluorobenzene 14.45 95 3237528 10.14 ppbv 0.00
Spiked Amount 10.000 Range 65 - 135 Recovery = 101.40%

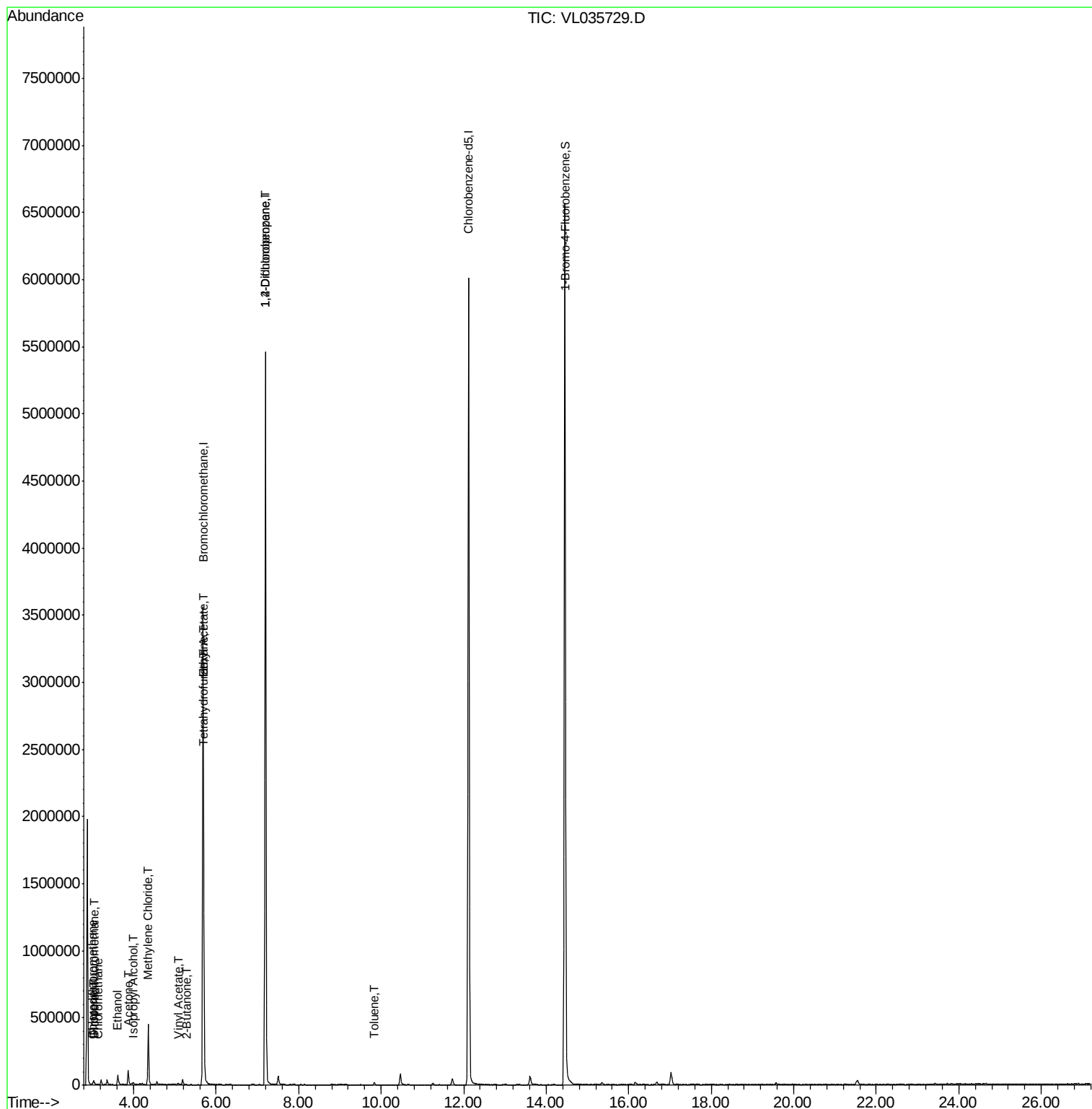
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.05	85	13108	0.067 ppbv	93
3) Chlorodifluoromethane	2.99	51	5516	0.043 ppbv #	86
4) Chloromethane	3.15	50	4330	0.063 ppbv	99
9) Propene	3.02	41	2890	0.062 ppbv #	2
13) Ethanol	3.61	45	67299	5.886 ppbv	96
15) Acetone	3.86	43	96277	0.754 ppbv	88
19) Isopropyl Alcohol	3.99	45	14762	0.212 ppbv #	83
20) Methylene Chloride	4.35	84	195663	2.086 ppbv	98
23) Vinyl Acetate	5.08	43	6220	0.040 ppbv #	74
25) Ethyl Acetate	5.70	43	68117	0.296 ppbv #	79
26) Hexane	5.70	57	98263	0.780 ppbv #	52
34) 2-Butanone	5.28	43	6091	0.043 ppbv	99
39) 1,2-Dichloropropane	7.20	63	852050	8.425 ppbv #	31
41) Tetrahydrofuran	5.70	42	37599	0.527 ppbv #	35
53) Toluene	9.83	91	12578	0.038 ppbv	97

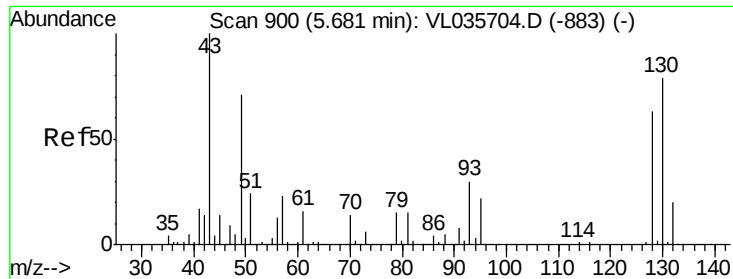
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL092320AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 23 07:38:05 2020
QLast Update : Wed Sep 23 07:38:05 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 900

Delta R.T. 0.00 min

Lab File: VL035729.D

Acq: 29 Sep 2020 18:04

Instrument :

MSVOA_L

ClientSampleId :

IA1ADL

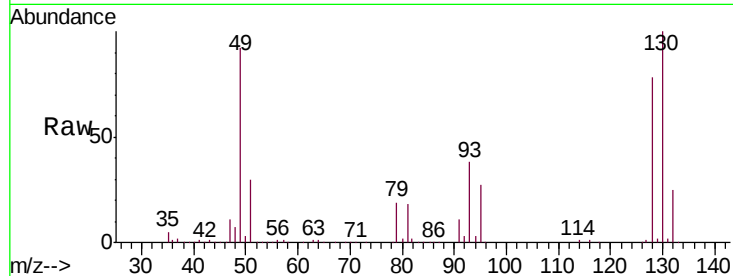
Tgt Ion: 49 Resp: 1186893

Ion Ratio Lower Upper

49 100

128 83.5 43.1 129.4

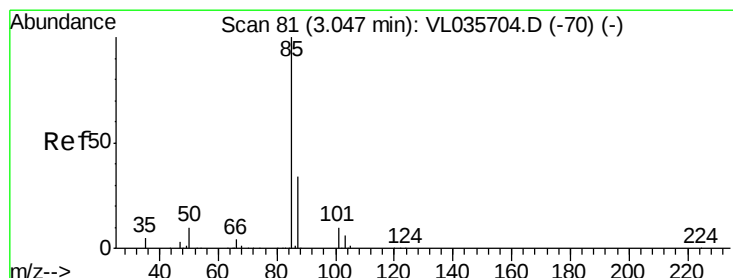
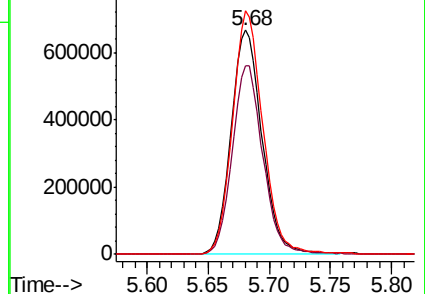
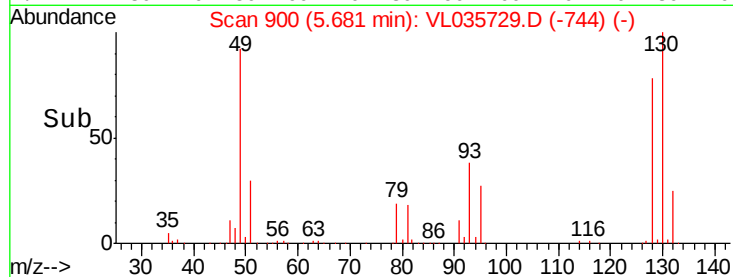
130 106.7 54.9 164.7



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.067 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL035729.D

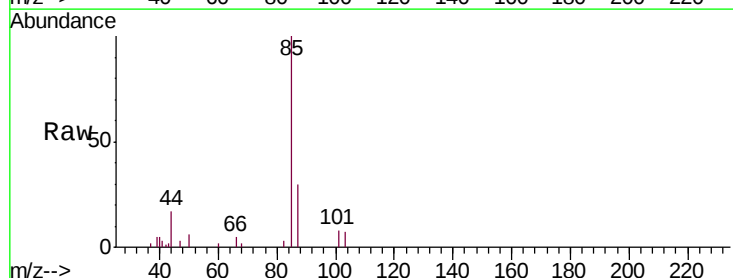
Acq: 29 Sep 2020 18:04

Tgt Ion: 85 Resp: 13108

Ion Ratio Lower Upper

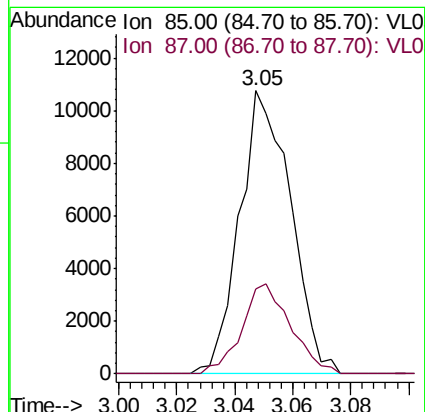
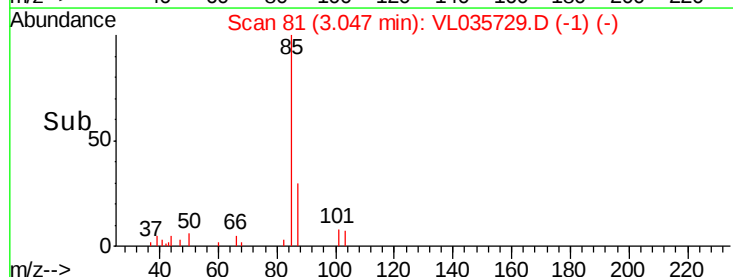
85 100

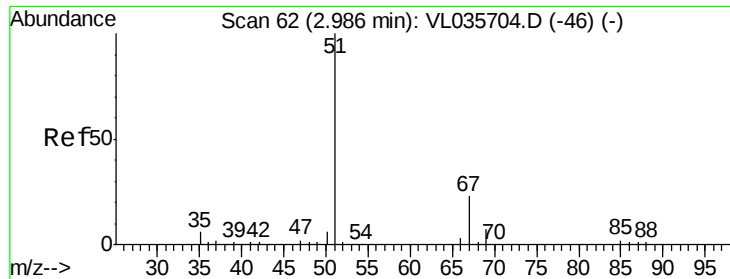
87 30.0 27.3 40.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.043 ppbv

RT: 2.99 min Scan# 62

Delta R.T. 0.00 min

Lab File: VL035729.D

Acq: 29 Sep 2020 18:04

Instrument :

MSVOA_L

ClientSampleId :

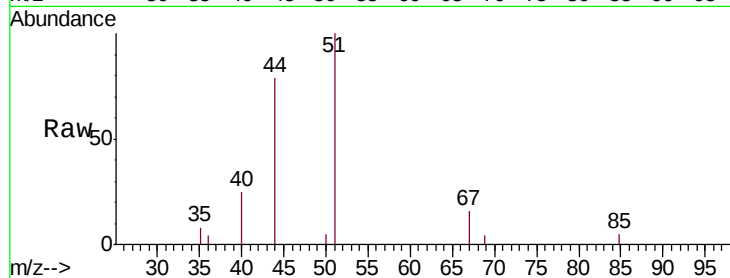
IA1ADL

Tgt Ion: 51 Resp: 5516

Ion Ratio Lower Upper

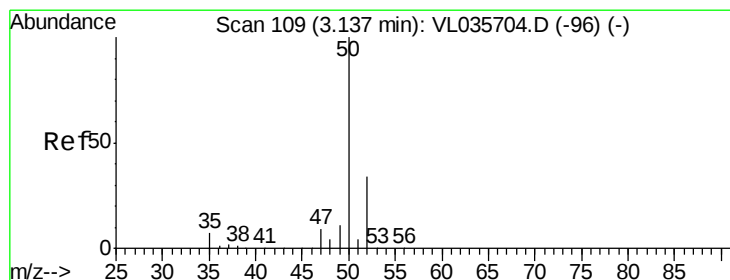
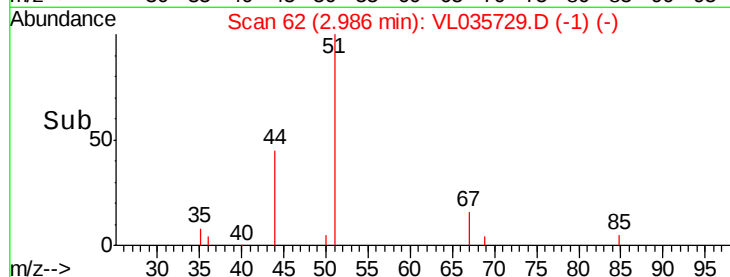
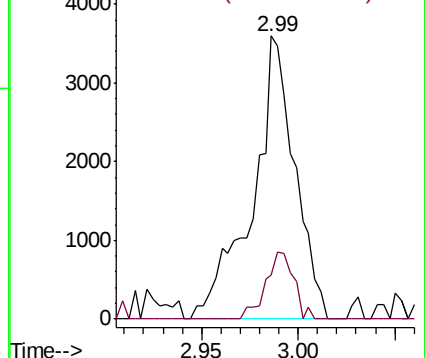
51 100

67 15.6 17.8 26.8#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.063 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.01 min

Lab File: VL035729.D

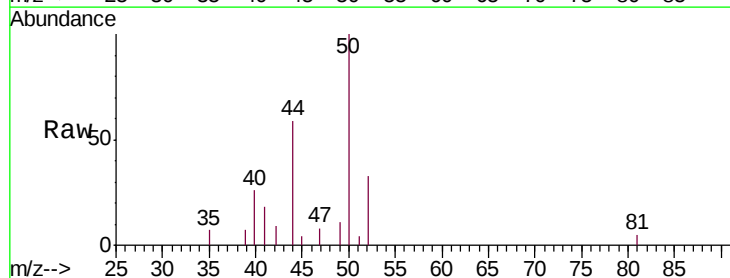
Acq: 29 Sep 2020 18:04

Tgt Ion: 50 Resp: 4330

Ion Ratio Lower Upper

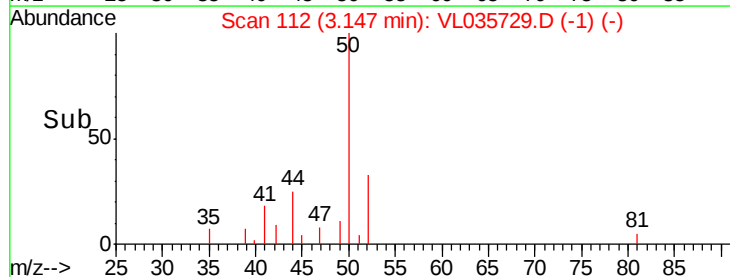
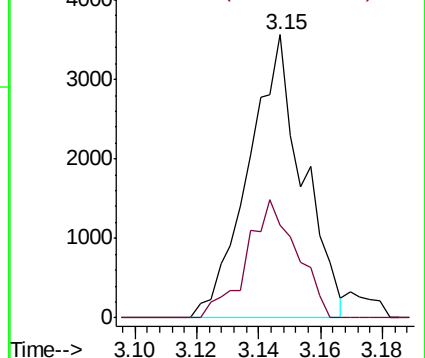
50 100

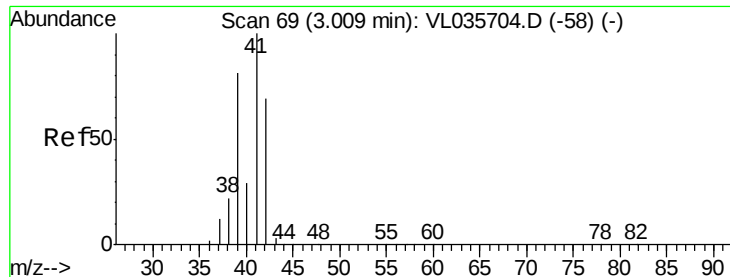
52 32.8 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.062 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL035729.D

Acq: 29 Sep 2020 18:04

Instrument :

MSVOA_L

ClientSampleId :

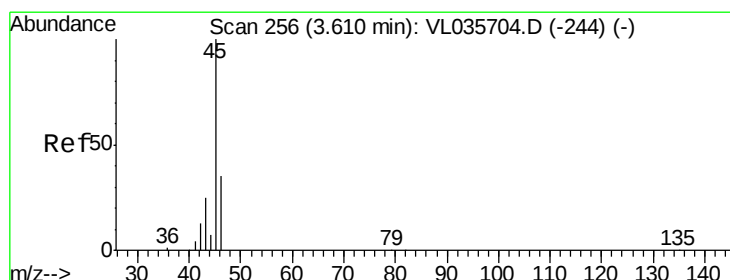
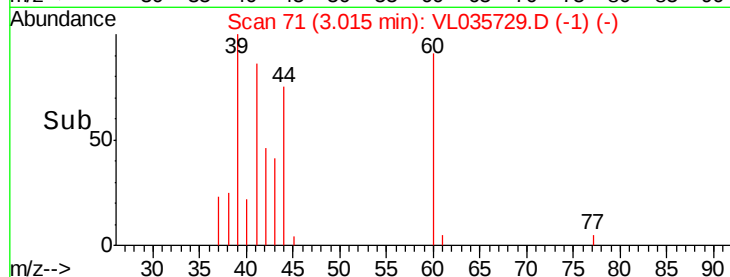
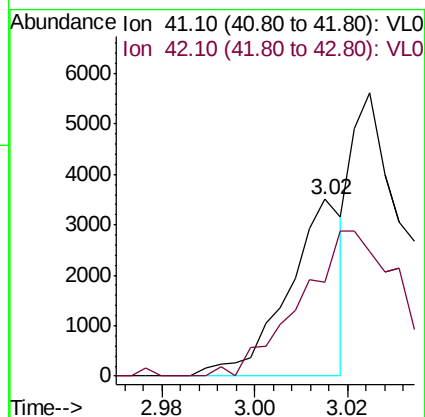
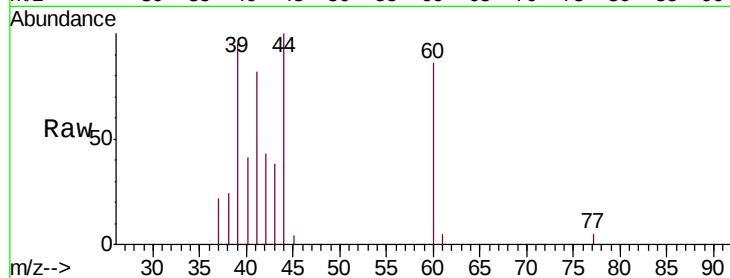
IA1ADL

Tgt Ion: 41 Resp: 2890

Ion Ratio Lower Upper

41 100

42 151.0 56.2 84.4#



#13

Ethanol

Concen: 5.886 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.00 min

Lab File: VL035729.D

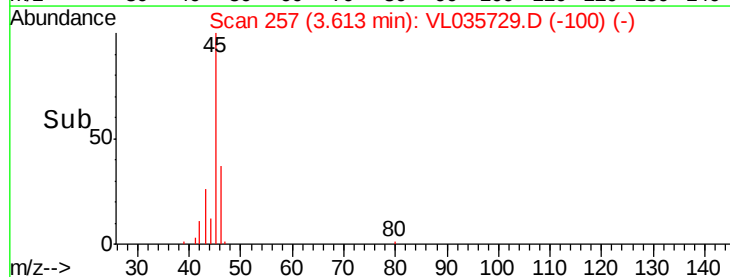
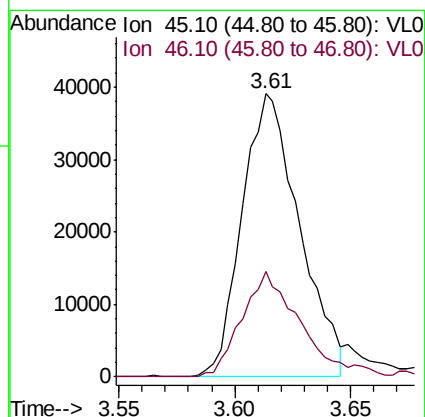
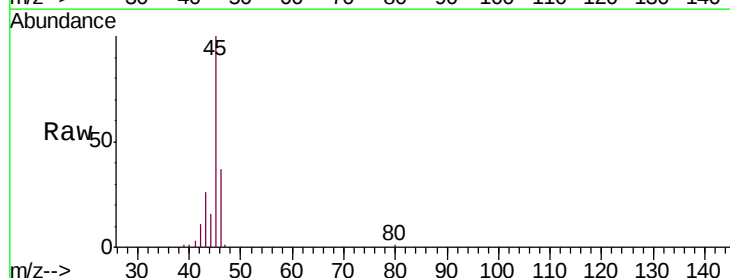
Acq: 29 Sep 2020 18:04

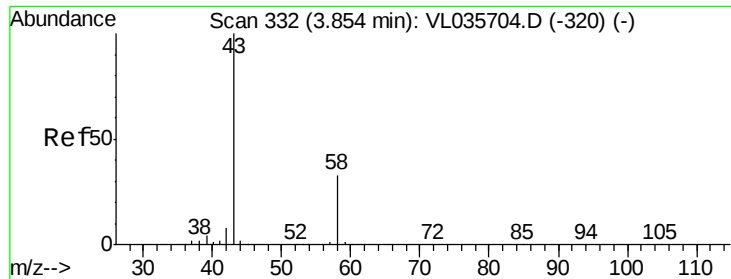
Tgt Ion: 45 Resp: 67299

Ion Ratio Lower Upper

45 100

46 39.2 14.7 58.7





#15

Acetone

Concen: 0.754 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.01 min

Lab File: VL035729.D

Acq: 29 Sep 2020 18:04

Instrument :

MSVOA_L

ClientSampleId :

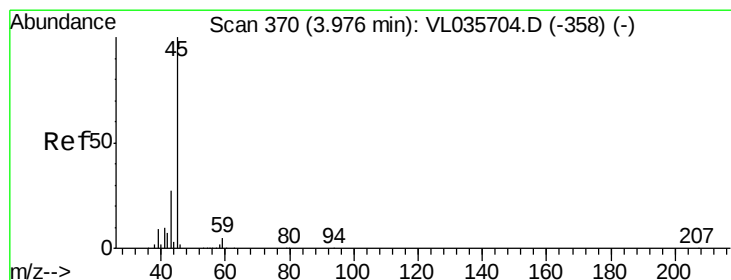
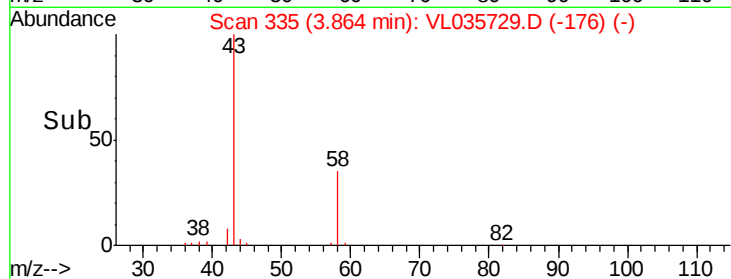
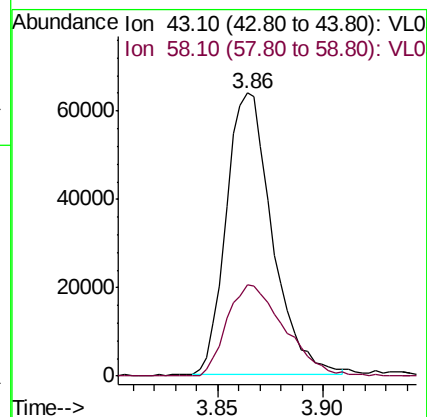
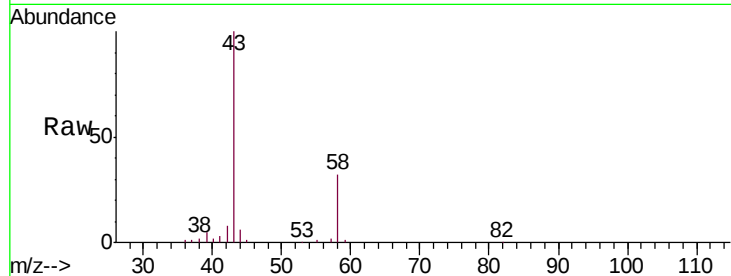
IA1ADL

Tgt Ion: 43 Resp: 96277

Ion Ratio Lower Upper

43 100

58 40.8 27.3 40.9



#19

Isopropyl Alcohol

Concen: 0.212 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.02 min

Lab File: VL035729.D

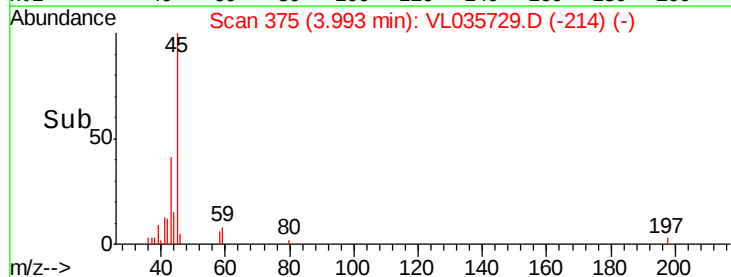
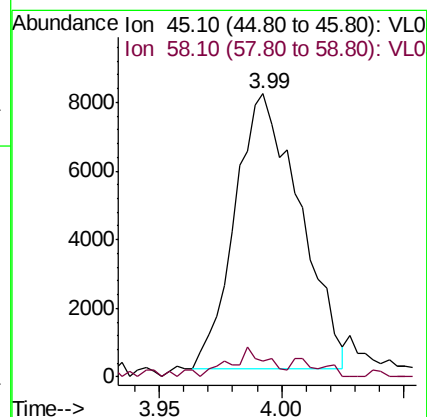
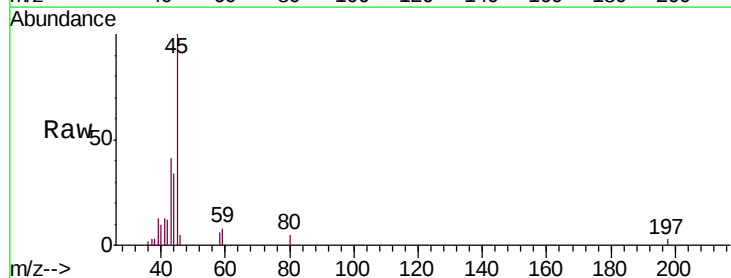
Acq: 29 Sep 2020 18:04

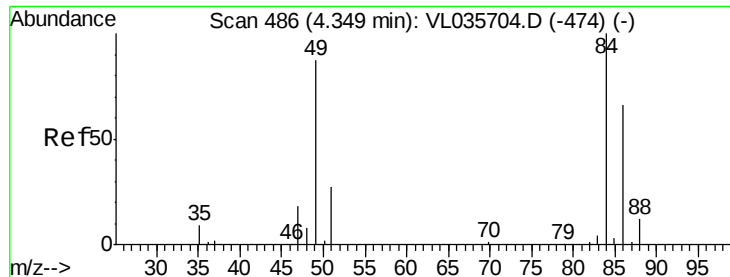
Tgt Ion: 45 Resp: 14762

Ion Ratio Lower Upper

45 100

58 9.0 2.8 4.2#





#20

Methylene Chloride

Concen: 2.086 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.00 min

Lab File: VL035729.D

Acq: 29 Sep 2020 18:04

Instrument :

MSVOA_L

ClientSampleId :

IA1ADL

Tgt Ion: 84 Resp: 195663

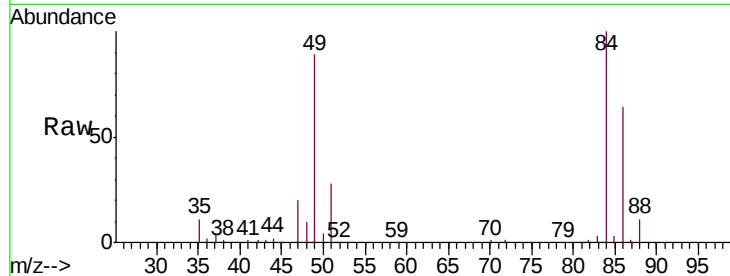
Ion Ratio Lower Upper

84 100

49 89.2 69.8 104.6

51 28.3 21.8 32.8

86 64.2 52.6 78.8



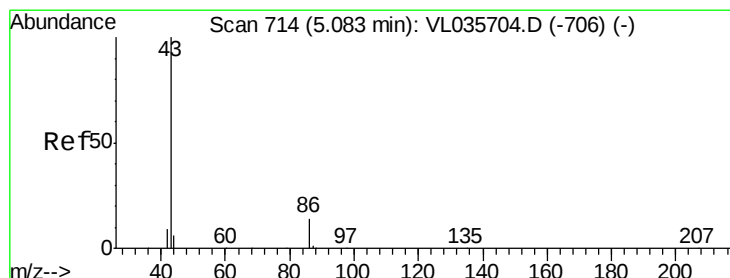
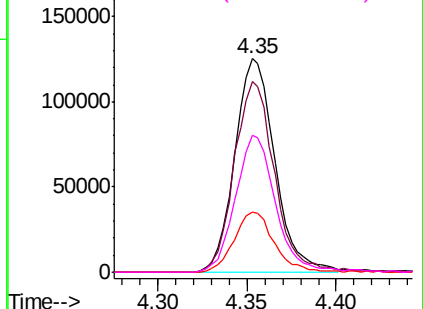
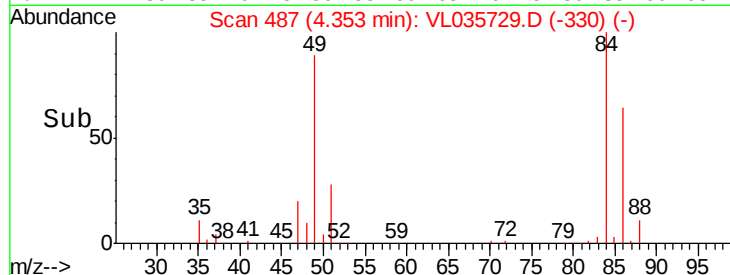
Abundance

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: 0.040 ppbv

RT: 5.08 min Scan# 714

Delta R.T. 0.00 min

Lab File: VL035729.D

Acq: 29 Sep 2020 18:04

Tgt Ion: 43 Resp: 6220

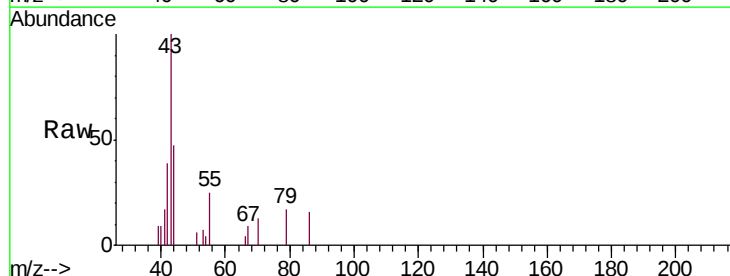
Ion Ratio Lower Upper

43 100

86 16.3 9.7 14.5#

42 29.8 7.9 11.9#

44 10.2 4.8 7.2#



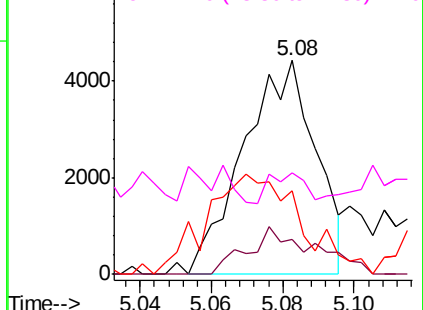
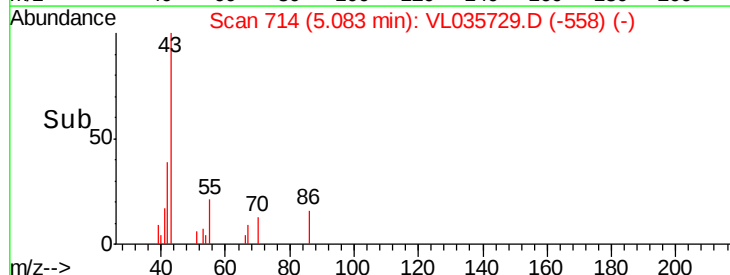
Abundance

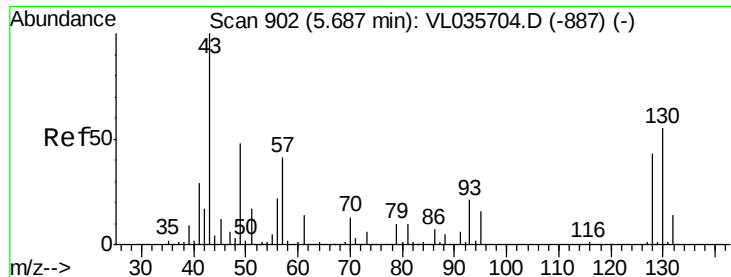
Ion 43.10 (42.80 to 43.80): VL0

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

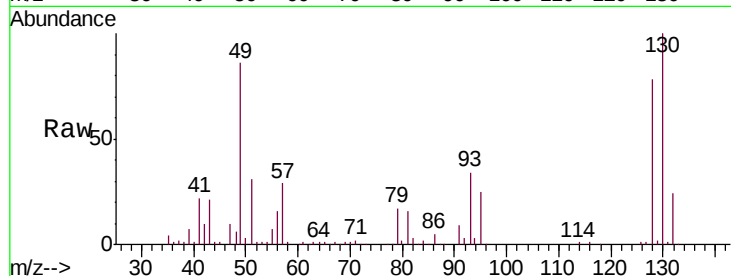




#25
Ethyl Acetate
Concen: 0.296 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL035729.D
Acq: 29 Sep 2020 18:04

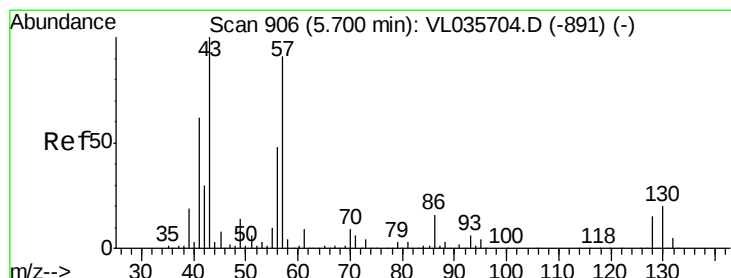
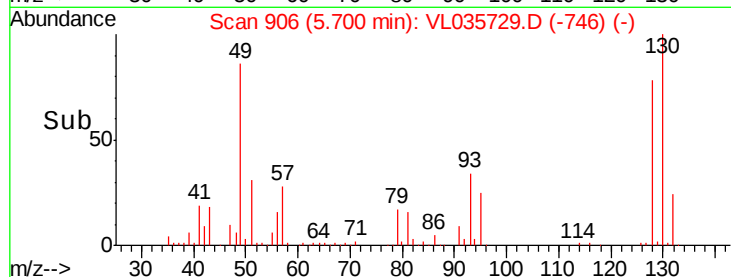
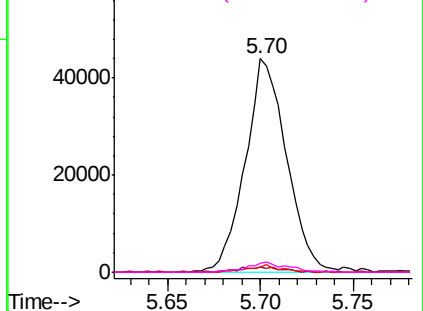
Instrument :
MSVOA_L
ClientSampleId :
IA1ADL

Tgt Ion: 43 Resp: 68117
Ion Ratio Lower Upper
43 100
45 3.0 8.6 12.8#
61 2.8 10.4 15.6#
70 4.7 8.9 13.3#



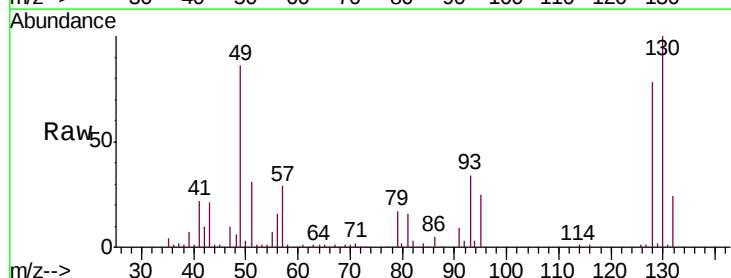
Abundance

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



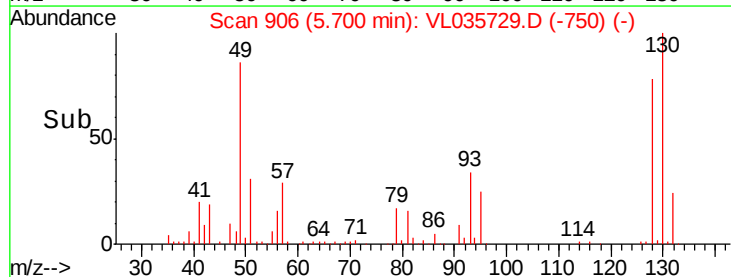
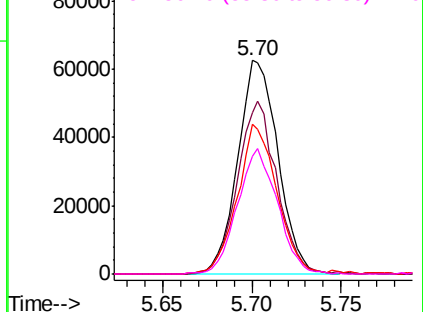
#26
Hexane
Concen: 0.780 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.00 min
Lab File: VL035729.D
Acq: 29 Sep 2020 18:04

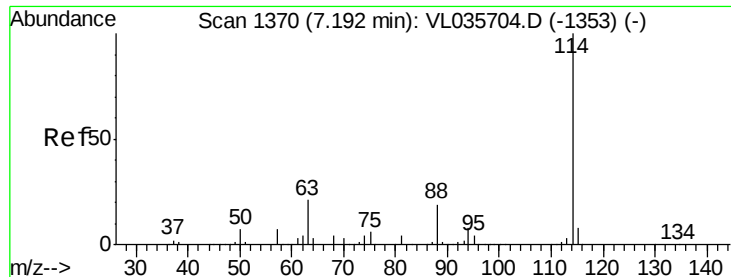
Tgt Ion: 57 Resp: 98263
Ion Ratio Lower Upper
57 100
41 79.6 57.9 86.9
43 70.5 143.8 215.6#
56 58.2 43.0 64.6



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

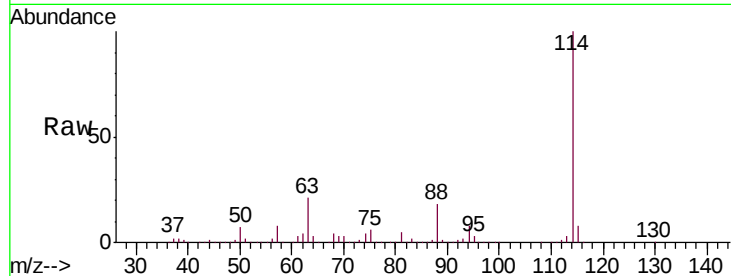




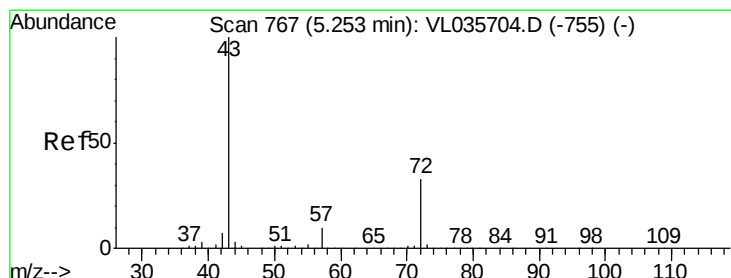
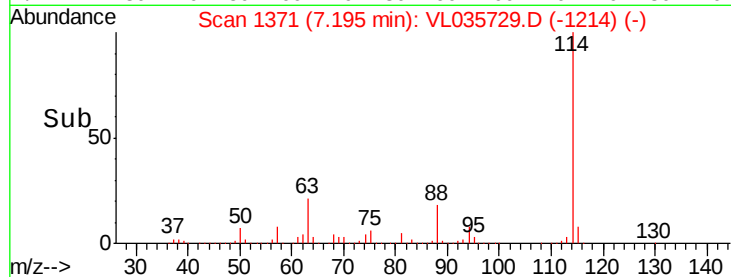
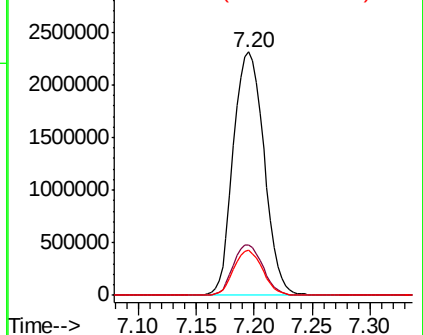
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1371
 Delta R.T. 0.00 min
 Lab File: VL035729.D
 Acq: 29 Sep 2020 18:04

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1ADL

Tgt Ion:114 Resp: 4282217
 Ion Ratio Lower Upper
 114 100
 63 20.0 16.1 24.1
 88 17.5 14.1 21.1

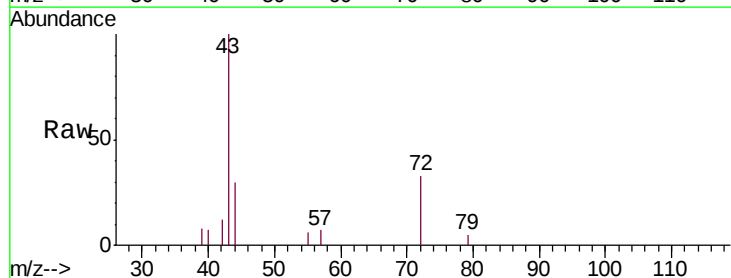


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

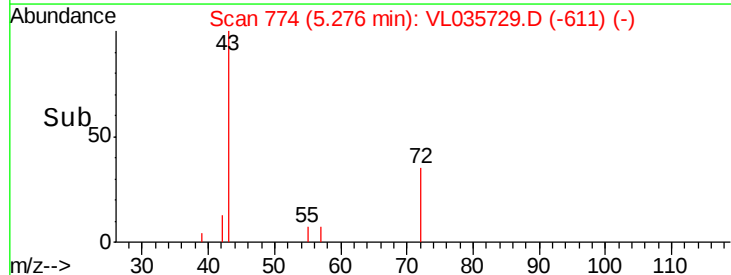
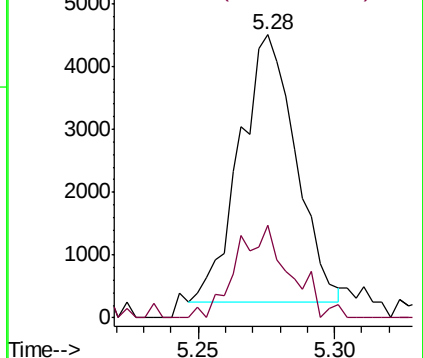


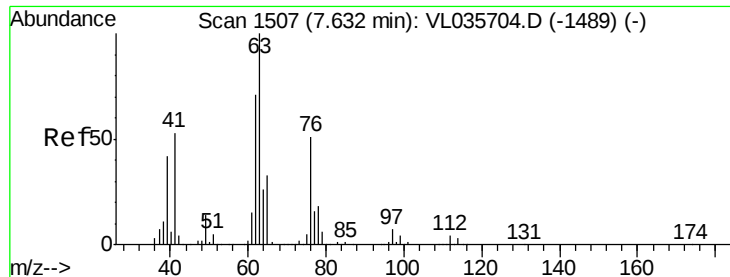
#34
 2-Butanone
 Concen: 0.043 ppbv
 RT: 5.28 min Scan# 774
 Delta R.T. 0.02 min
 Lab File: VL035729.D
 Acq: 29 Sep 2020 18:04

Tgt Ion: 43 Resp: 6091
 Ion Ratio Lower Upper
 43 100
 72 33.0 26.1 39.1



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0

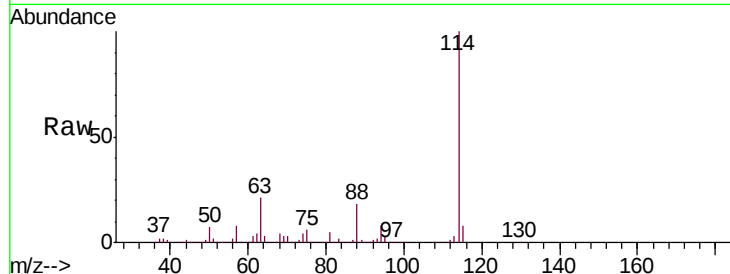




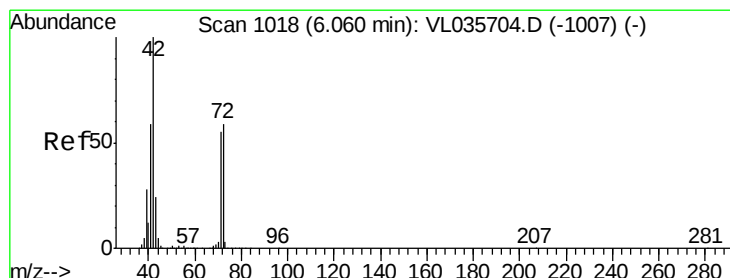
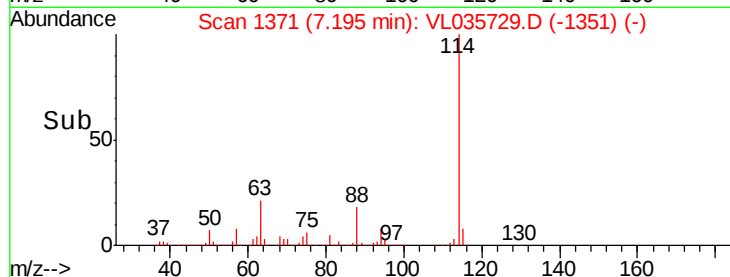
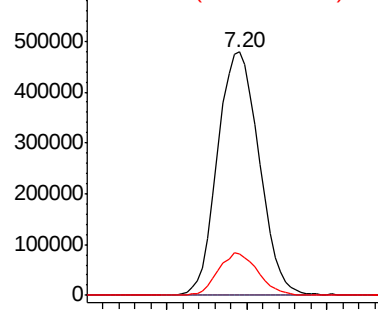
#39
 1,2-Dichloropropane
 Concen: 8.425 ppbv
 RT: 7.20 min Scan# 1371
 Delta R.T. -0.44 min
 Lab File: VL035729.D
 Acq: 29 Sep 2020 18:04

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1ADL

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	42.6	63.8#
62	17.1	56.5	84.7#

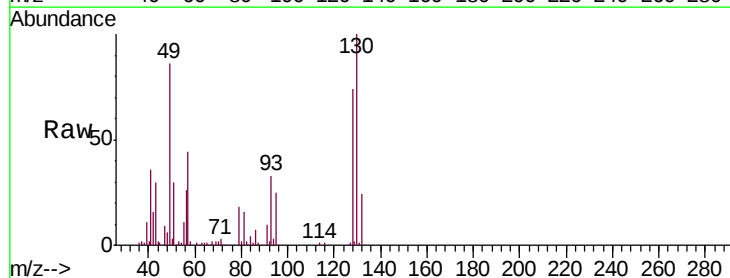


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

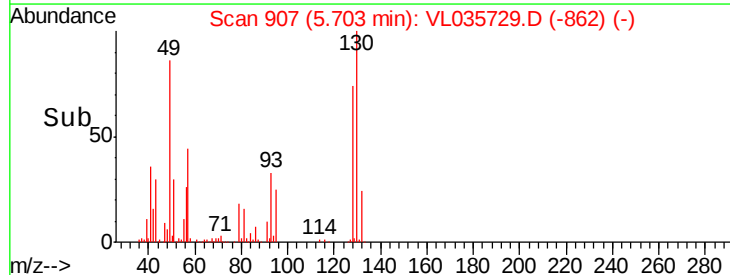
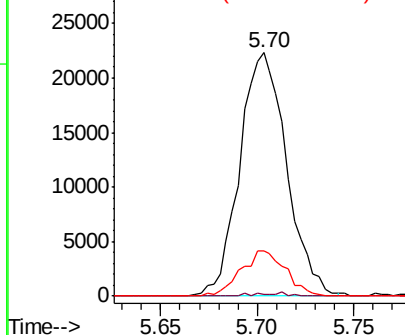


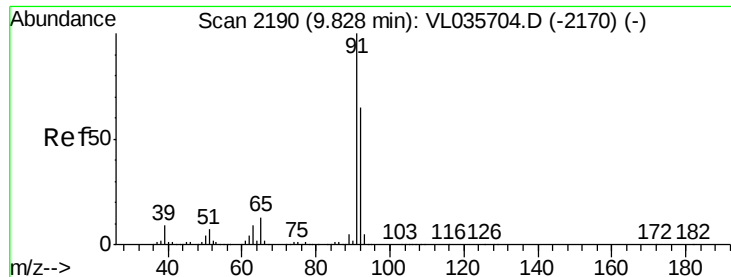
#41
 Tetrahydrofuran
 Concen: 0.527 ppbv
 RT: 5.70 min Scan# 907
 Delta R.T. -0.36 min
 Lab File: VL035729.D
 Acq: 29 Sep 2020 18:04

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.9	46.2	69.4#
71	17.7	44.2	66.4#



Abundance Ion 42.10 (41.80 to 42.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0
 Ion 71.10 (70.80 to 71.80): VL0





#53

Toluene

Concen: 0.038 ppbv

RT: 9.83 min Scan# 2192

Delta R.T. 0.01 min

Lab File: VL035729.D

Acq: 29 Sep 2020 18:04

Instrument :

MSVOA_L

ClientSampleId :

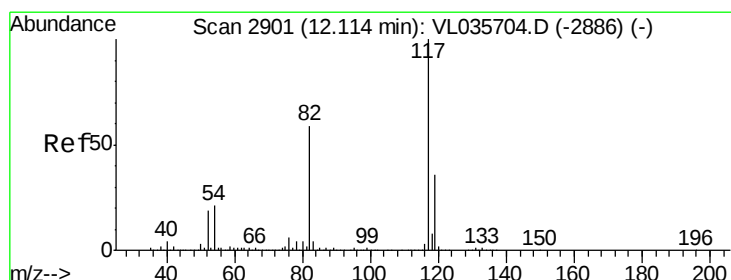
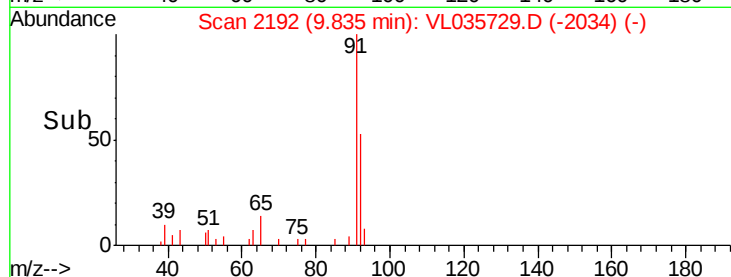
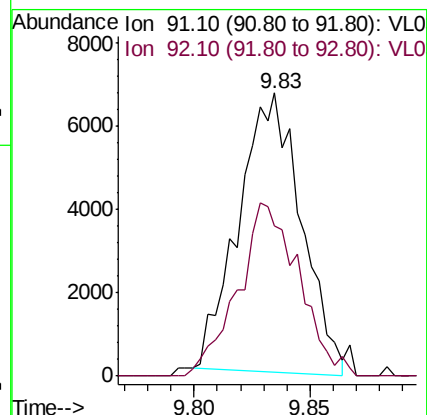
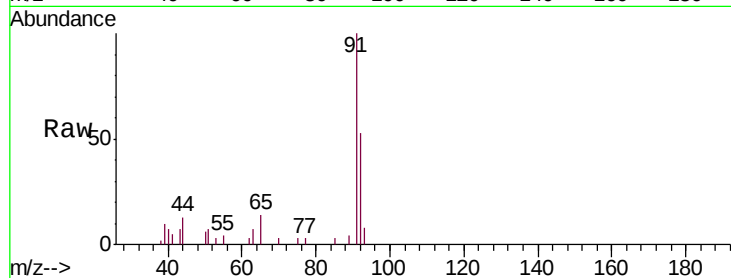
IA1ADL

Tgt Ion: 91 Resp: 12578

Ion Ratio Lower Upper

91 100

92 60.3 50.0 75.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.12 min Scan# 2902

Delta R.T. 0.00 min

Lab File: VL035729.D

Acq: 29 Sep 2020 18:04

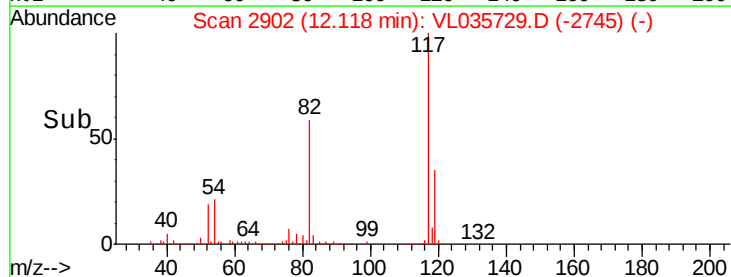
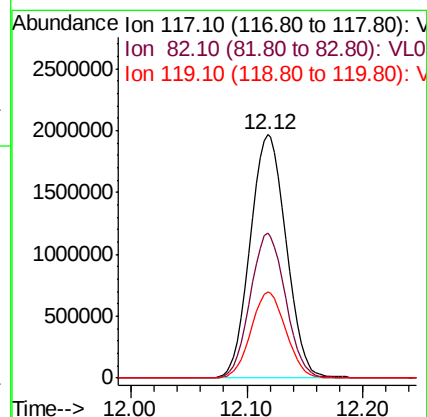
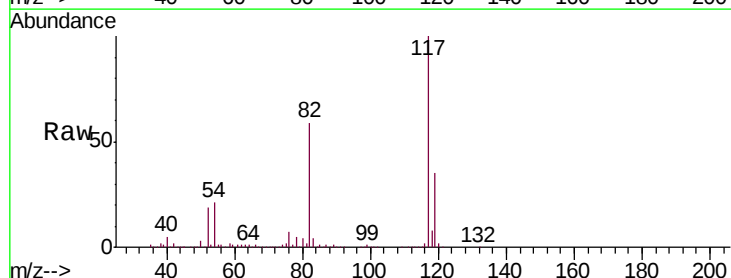
Tgt Ion: 117 Resp: 4260074

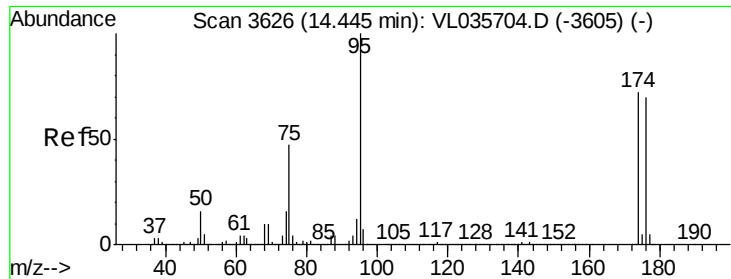
Ion Ratio Lower Upper

117 100

82 58.7 46.1 69.1

119 34.4 28.0 42.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.142 ppbv
 RT: 14.45 min Scan# 3628
 Delta R.T. 0.01 min
 Lab File: VL035729.D
 Acq: 29 Sep 2020 18:04

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1ADL

Tgt Ion: 95 Resp: 3237528
 Ion Ratio Lower Upper
 95 100
 174 77.4 59.6 89.4
 175 5.6 4.2 6.4

