

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080620\
 Data File : VL035354.D
 Acq On : 6 Aug 2020 17:50
 Operator : SY/AP
 Sample : L3554-08DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 07 06:28:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 05 13:04:46 2020
 QLast Update : Wed Aug 05 13:04:46 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1480818	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3614421	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.10	117	3444810	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	2877284	10.02	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.20%

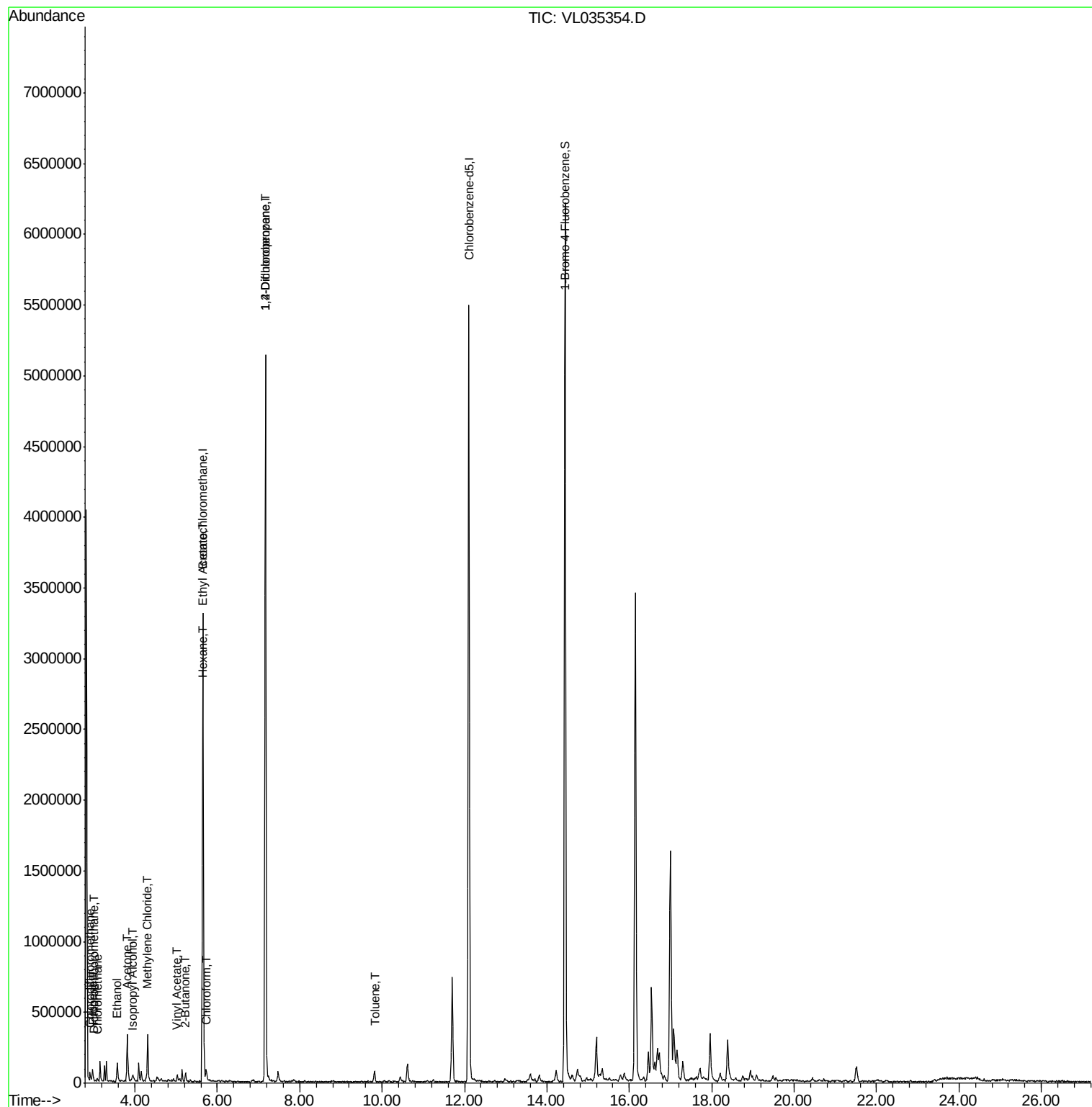
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.00	85	11594	0.059 ppbv #	84
3) Chlorodifluoromethane	2.92	51	42592	0.252 ppbv #	67
4) Chloromethane	3.09	50	6858	0.072 ppbv	95
9) Propene	2.96	41	17672	0.293 ppbv	93
13) Ethanol	3.57	45	137128	6.601 ppbv	99
15) Acetone	3.81	43	330519	1.572 ppbv	93
19) Isopropyl Alcohol	3.95	45	16416	0.123 ppbv #	93
20) Methylene Chloride	4.31	84	111754	1.303 ppbv #	92
23) Vinyl Acetate	5.04	43	12782	0.063 ppbv #	28
25) Ethyl Acetate	5.66	43	26360	0.083 ppbv #	91
26) Hexane	5.66	57	58631	0.423 ppbv #	45
29) Chloroform	5.73	83	29827	0.125 ppbv	84
34) 2-Butanone	5.22	43	66105	0.371 ppbv	97
39) 1,2-Dichloropropane	7.16	63	946024	9.575 ppbv #	22
53) Toluene	9.81	91	41920	0.158 ppbv #	20

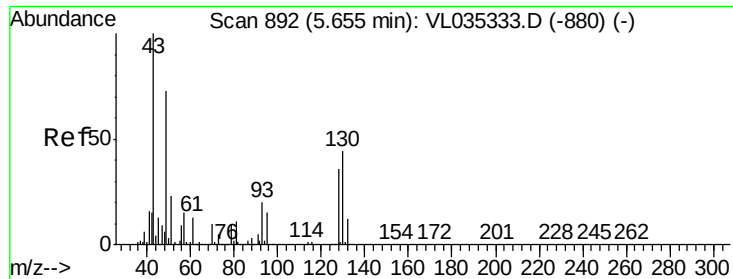
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 05 13:04:46 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 889

Delta R.T. -0.01 min

Lab File: VL035354.D

Acq: 6 Aug 2020 17:50

Instrument :
MSVOA_L
ClientSampled :

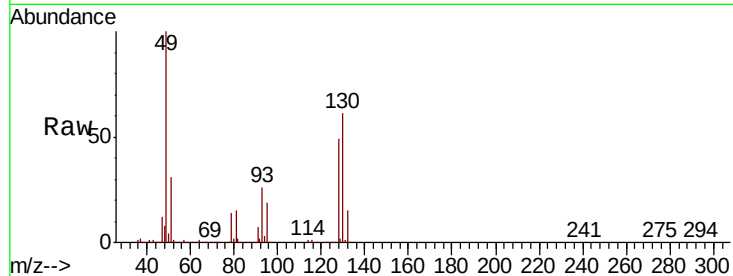
Tot Ion: 49 Resp: 1480818

Ion Ratio Lower Upper

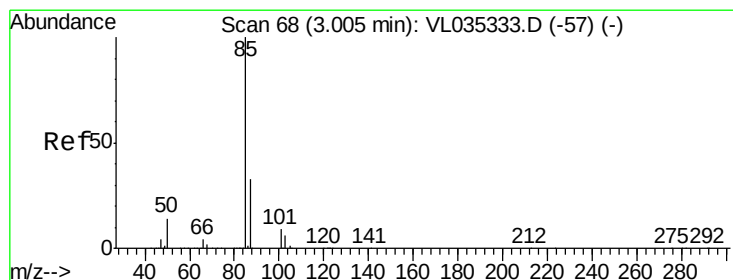
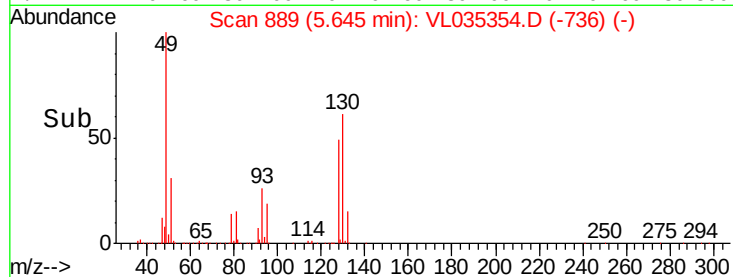
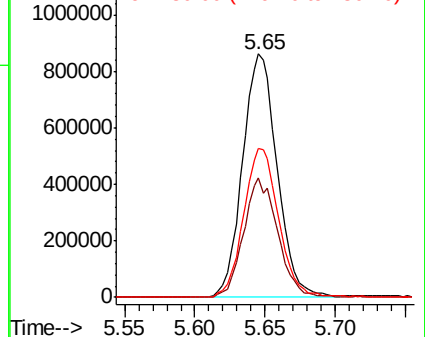
49 100

128 48.5 25.4 76.0

130 62.5 32.1 96.3



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: 0.059 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.00 min

Lab File: VL035354.D

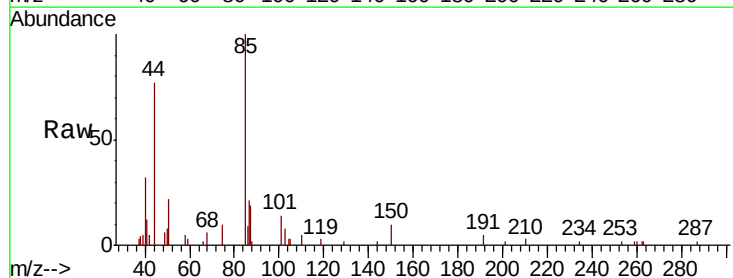
Acq: 6 Aug 2020 17:50

Tgt Ion: 85 Resp: 11594

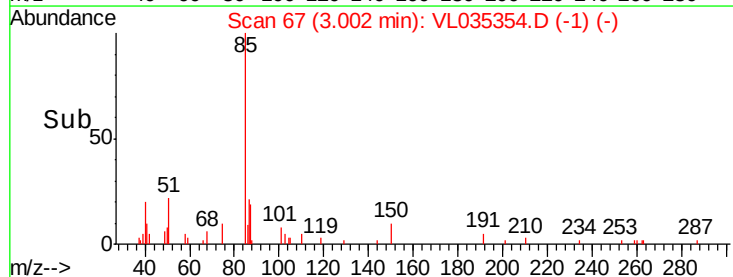
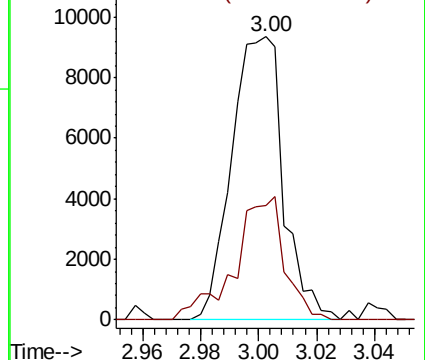
Ion Ratio Lower Upper

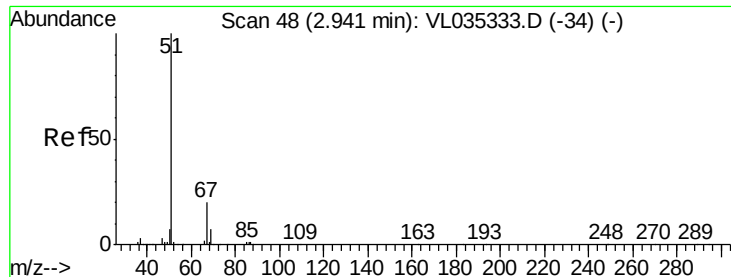
85 100

87 42.7 26.7 40.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0

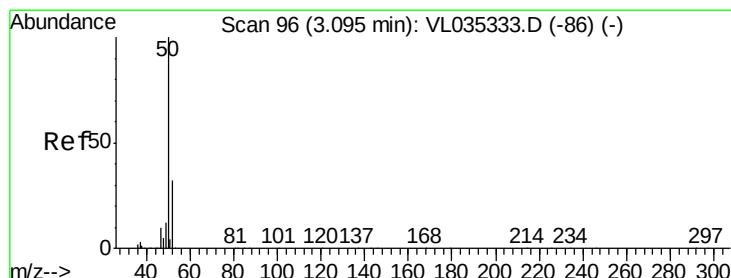
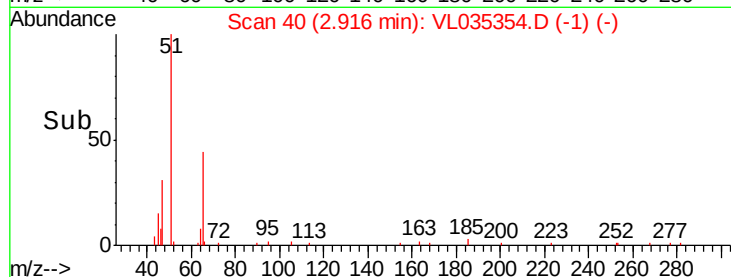
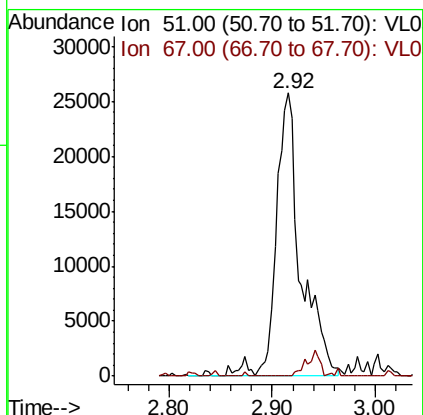
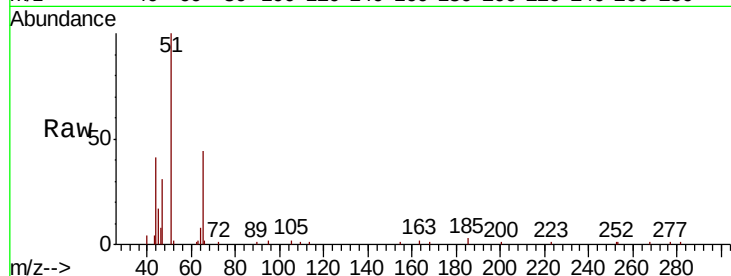




#3
Chlorodifluoromethane
Concen: 0.252 ppbv
RT: 2.92 min Scan# 40
Delta R.T. -0.03 min
Lab File: VL035354.D
Acq: 6 Aug 2020 17:50

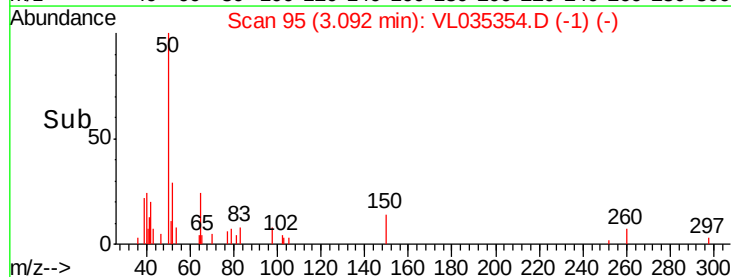
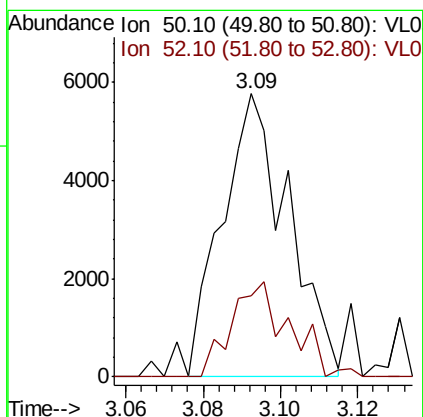
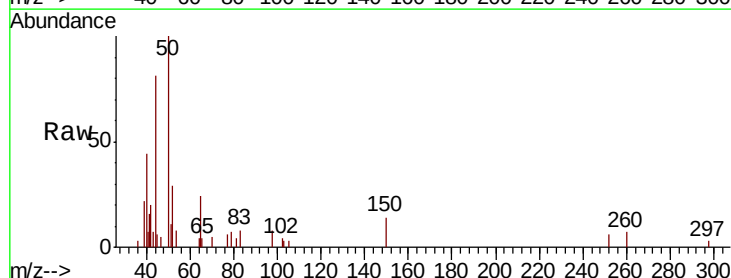
Instrument :
MSVOA_L
ClientSampled :

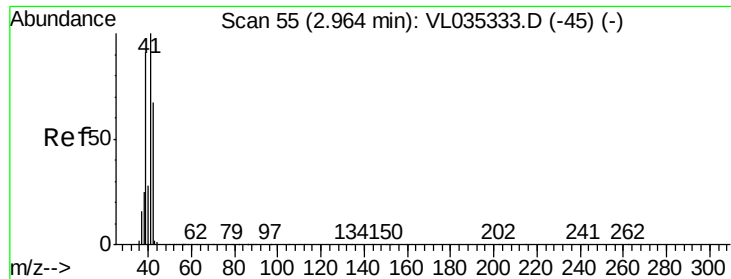
Tot Ion: 51 Resp: 42592
Ion Ratio Lower Upper
51 100
67 5.3 16.6 25.0#



#4
Chloromethane
Concen: 0.072 ppbv
RT: 3.09 min Scan# 95
Delta R.T. -0.00 min
Lab File: VL035354.D
Acq: 6 Aug 2020 17:50

Tgt Ion: 50 Resp: 6858
Ion Ratio Lower Upper
50 100
52 29.5 26.0 39.0





#9

Propene

Concen: 0.293 ppbv

RT: 2.96 min Scan# 55

Delta R.T. 0.00 min

Lab File: VL035354.D

Acq: 6 Aug 2020 17:50

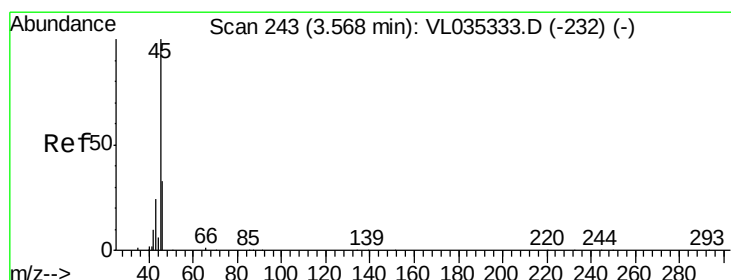
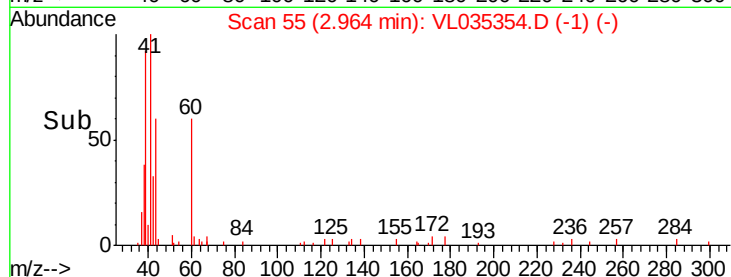
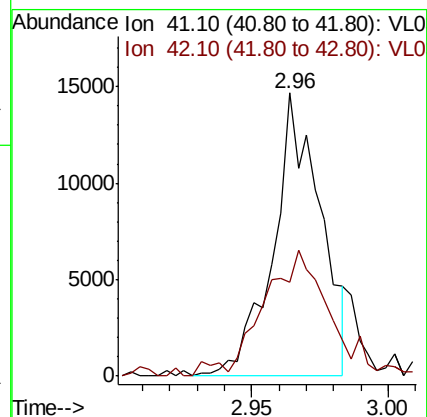
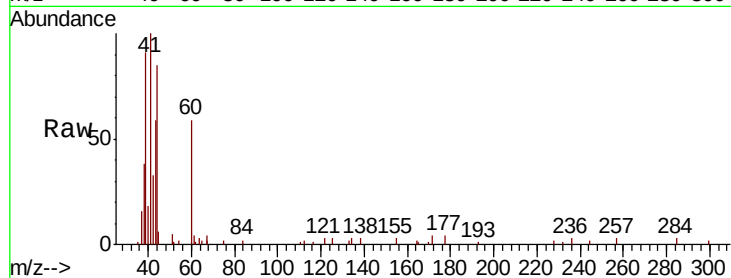
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 41 Resp: 17672

Ion Ratio Lower Upper

41 100

42 63.2 55.3 82.9



#13

Ethanol

Concen: 6.601 ppbv

RT: 3.57 min Scan# 244

Delta R.T. 0.00 min

Lab File: VL035354.D

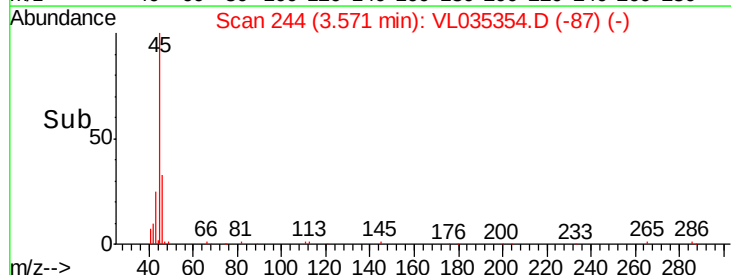
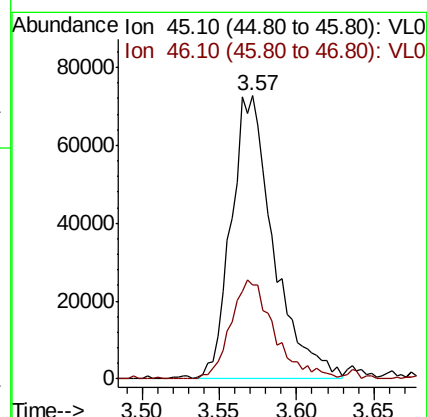
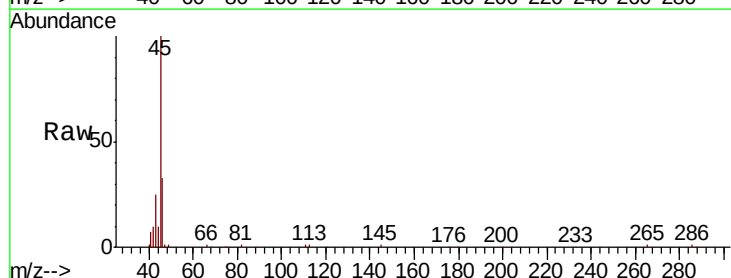
Acq: 6 Aug 2020 17:50

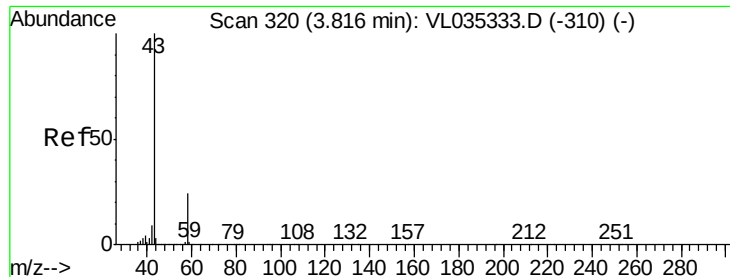
Tgt Ion: 45 Resp: 137128

Ion Ratio Lower Upper

45 100

46 37.2 15.2 61.0





#15

Acetone

Concen: 1.572 ppbv

RT: 3.81 min Scan# 319

Delta R.T. -0.00 min

Lab File: VL035354.D

Acq: 6 Aug 2020 17:50

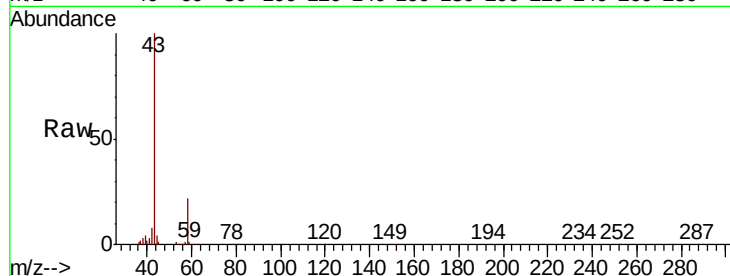
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 330519

Ion Ratio Lower Upper

43 100

58 30.0 21.0 31.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

250000

200000

150000

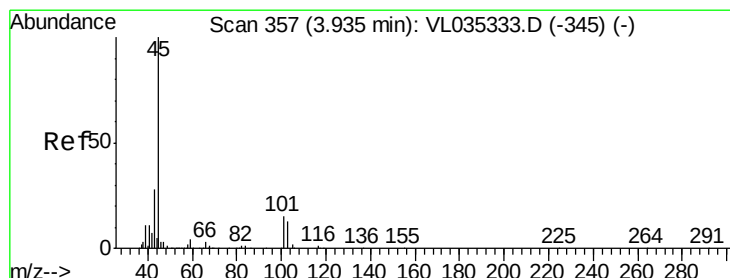
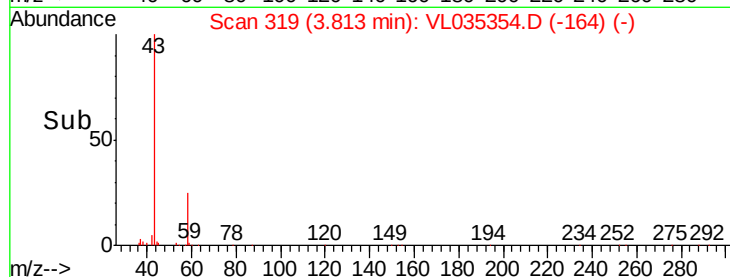
100000

50000

0

3.75 3.80 3.85

Time-->



#19

Isopropyl Alcohol

Concen: 0.123 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.02 min

Lab File: VL035354.D

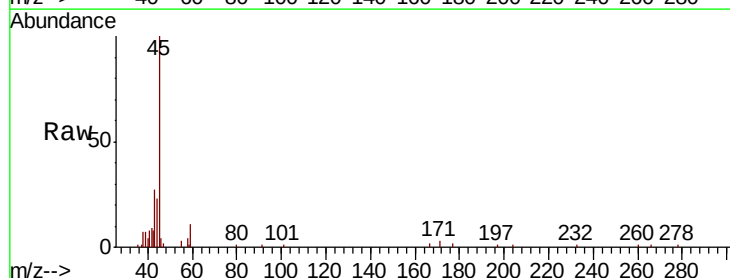
Acq: 6 Aug 2020 17:50

Tgt Ion: 45 Resp: 16416

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

25000

20000

15000

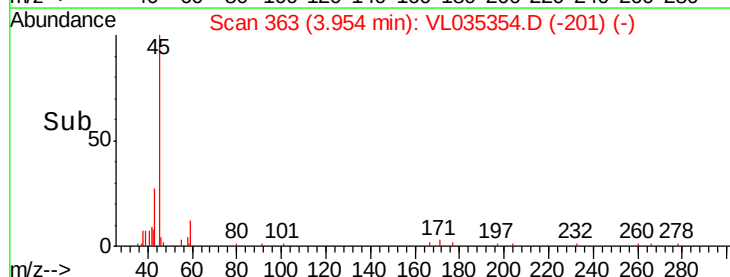
10000

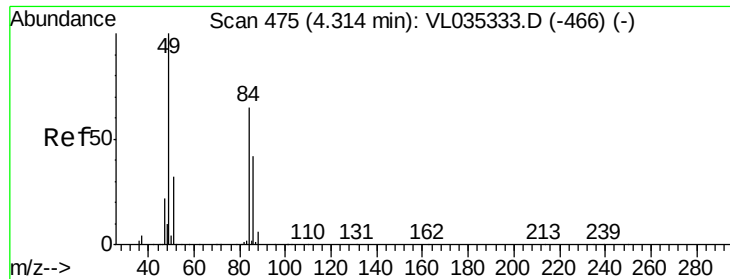
5000

0

3.94 3.95 3.96 3.97 3.98

Time-->

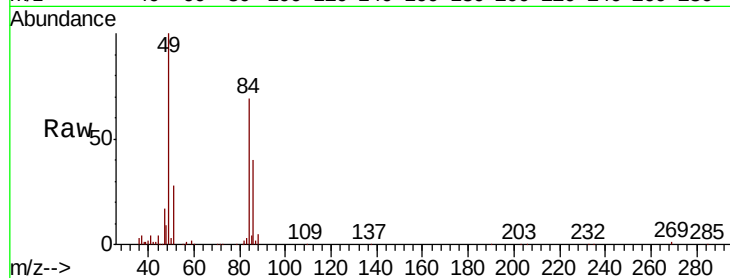




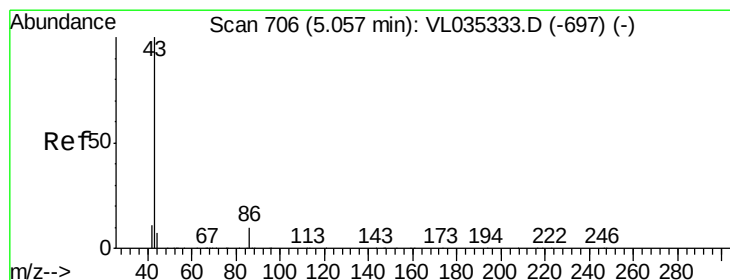
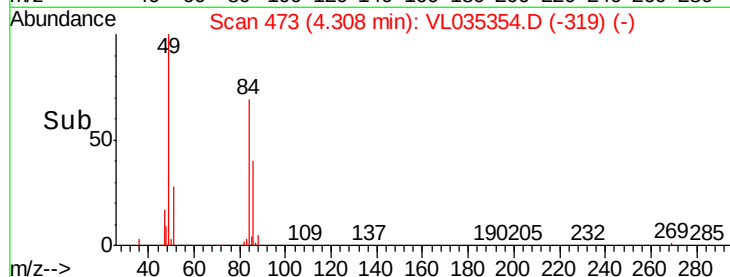
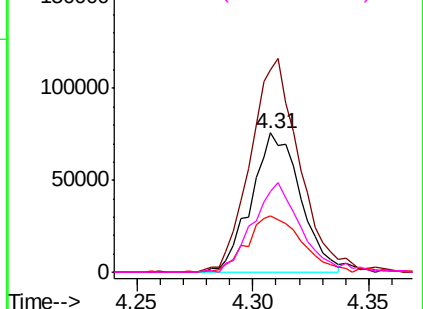
#20
Methylene Chloride
Concen: 1.303 ppbv
RT: 4.31 min Scan# 473
Delta R.T. -0.01 min
Lab File: VL035354.D
Acq: 6 Aug 2020 17:50

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 84 Resp: 111754
Ion Ratio Lower Upper
84 100
49 145.7 122.8 184.2
51 39.6 40.1 60.1#
86 57.7 51.7 77.5

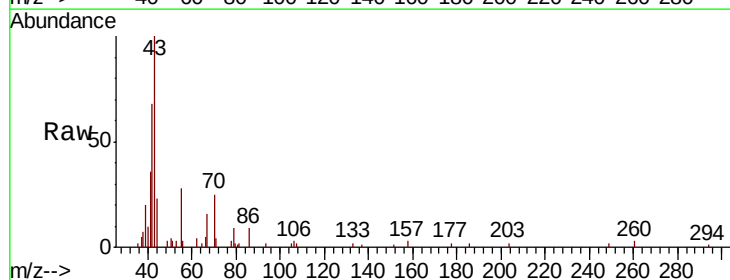


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

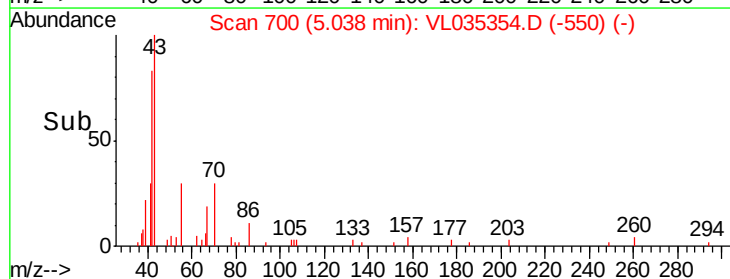
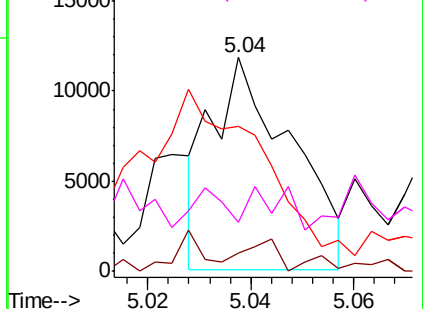


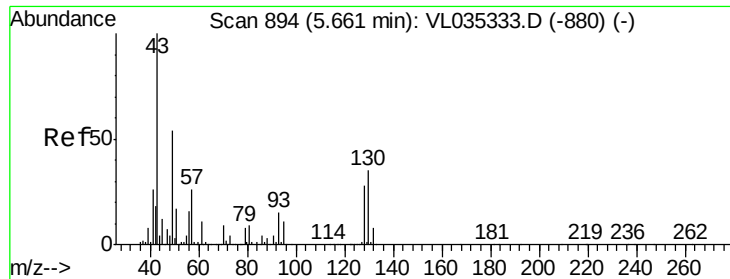
#23
Vinyl Acetate
Concen: 0.063 ppbv
RT: 5.04 min Scan# 700
Delta R.T. -0.02 min
Lab File: VL035354.D
Acq: 6 Aug 2020 17:50

Tgt Ion: 43 Resp: 12782
Ion Ratio Lower Upper
43 100
86 9.6 6.9 10.3
42 70.7 8.8 13.2#
44 0.0 5.0 7.6#



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

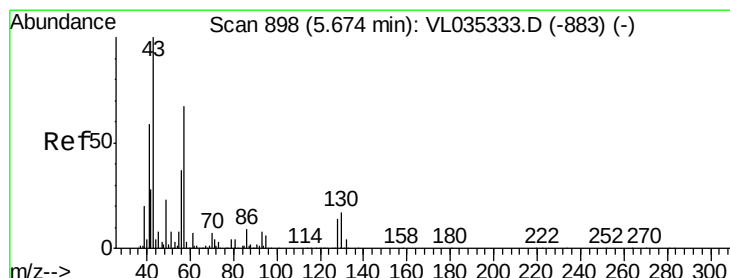
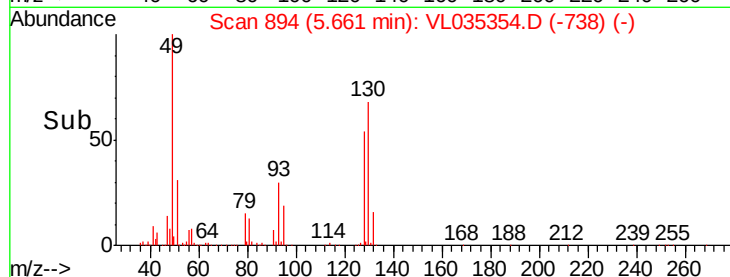
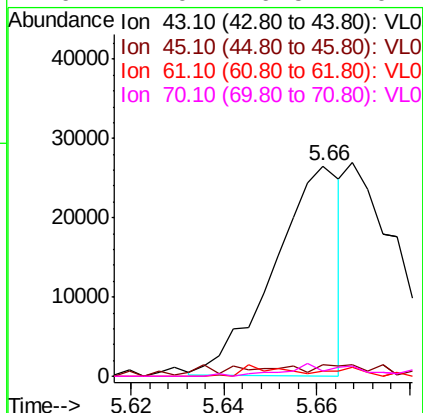
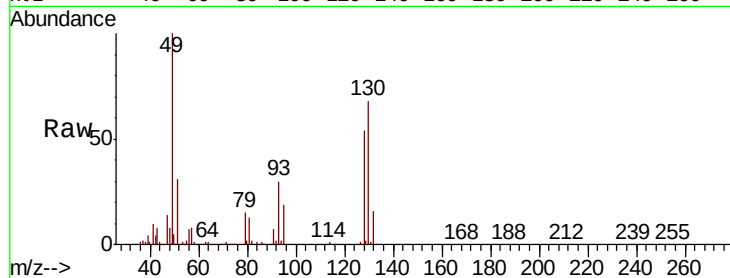




#25
Ethyl Acetate
Concen: 0.083 ppbv
RT: 5.66 min Scan# 894
Delta R.T. 0.00 min
Lab File: VL035354.D
Acq: 6 Aug 2020 17:50

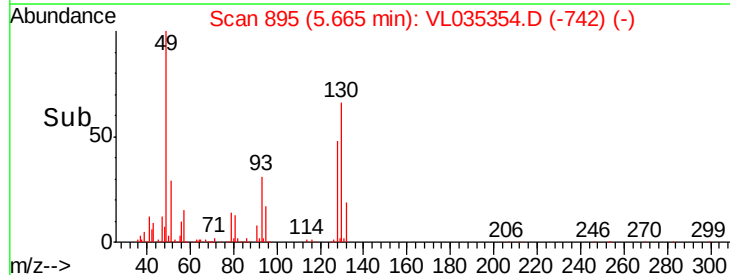
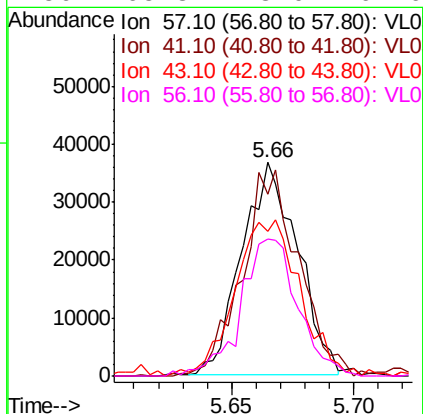
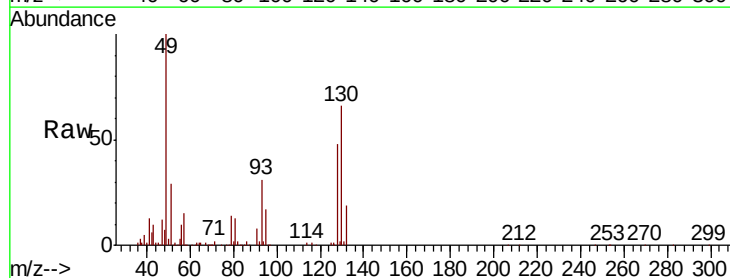
Instrument :
MSVOA_L
ClientSampleId :

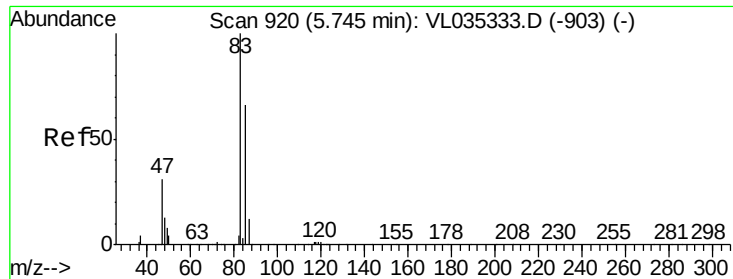
Tot Ion:	43	Resp:	26360
Ion	Ratio	Lower	Upper
43	100		
45	14.3	8.5	12.7#
61	5.5	8.1	12.1#
70	7.0	6.5	9.7



#26
Hexane
Concen: 0.423 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL035354.D
Acq: 6 Aug 2020 17:50

Tgt Ion:	57	Resp:	58631
Ion	Ratio	Lower	Upper
57	100		
41	100.3	75.2	112.8
43	87.9	180.6	270.8#
56	65.3	43.0	64.6#





#29

Chloroform

Concen: 0.125 ppbv

RT: 5.73 min Scan# 916

Delta R.T. -0.01 min

Lab File: VL035354.D

Acq: 6 Aug 2020 17:50

Instrument :

MSVOA_L

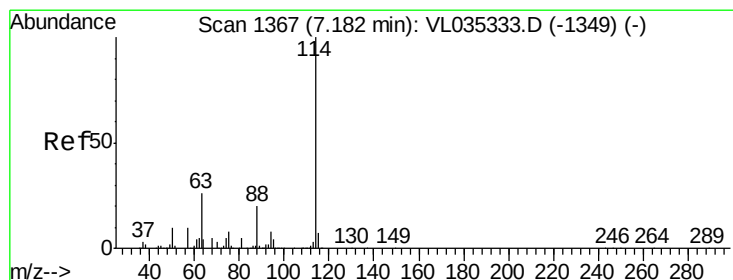
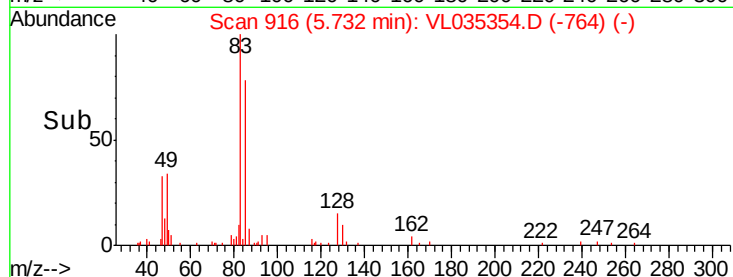
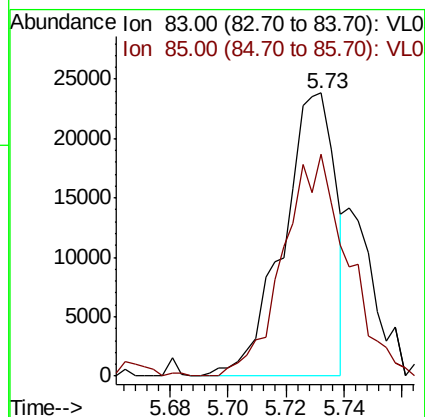
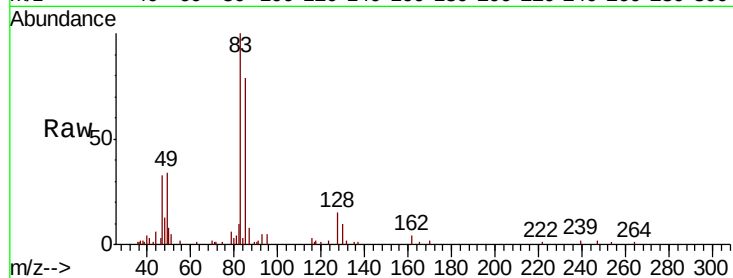
ClientSampleId :

Tot Ion: 83 Resp: 29827

Ion Ratio Lower Upper

83 100

85 78.6 52.9 79.3



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.01 min

Lab File: VL035354.D

Acq: 6 Aug 2020 17:50

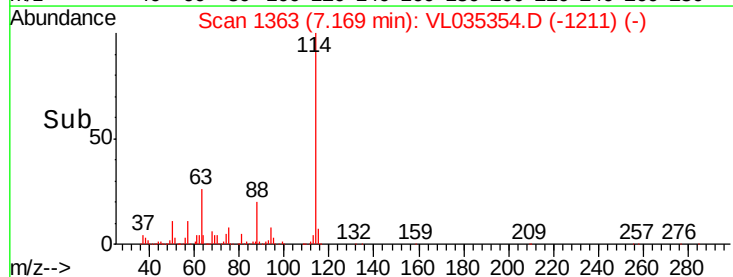
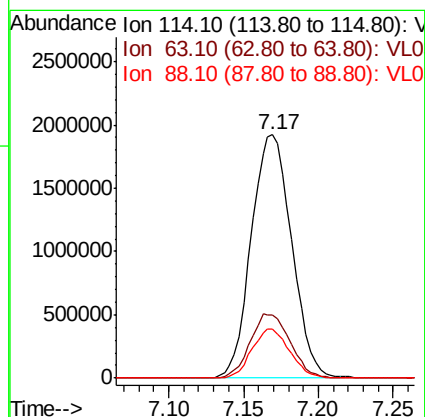
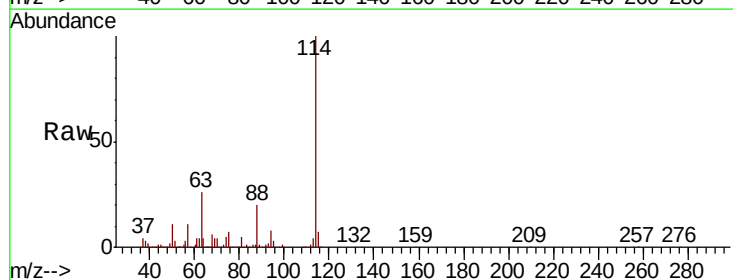
Tgt Ion: 114 Resp: 3614421

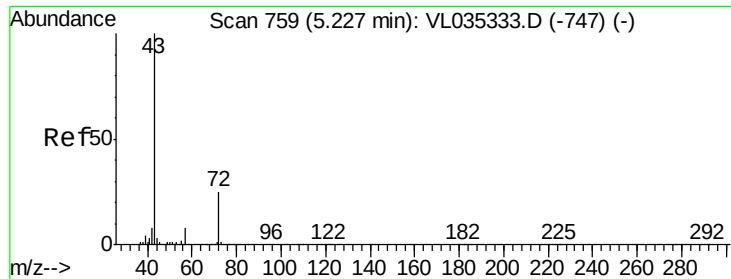
Ion Ratio Lower Upper

114 100

63 26.3 21.3 31.9

88 19.2 15.3 22.9

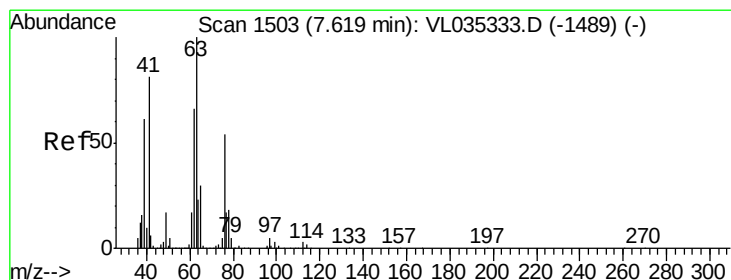
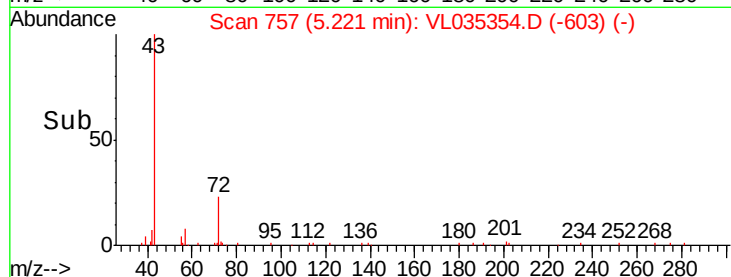
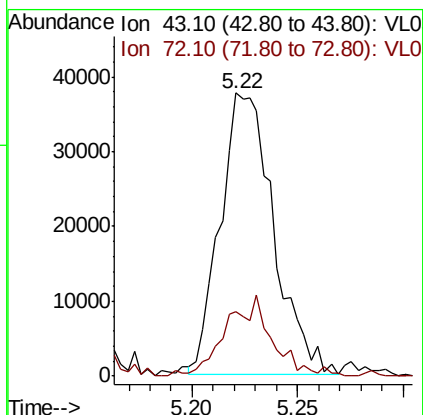
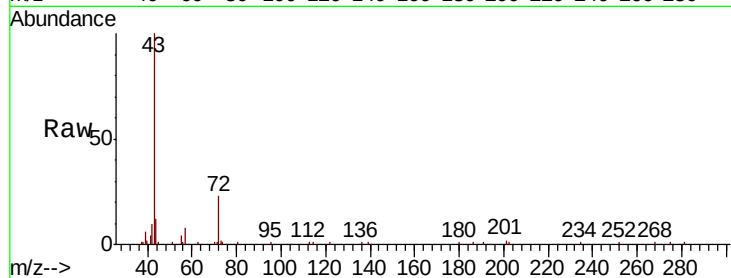




#34
2-Butanone
Concen: 0.371 ppbv
RT: 5.22 min Scan# 757
Delta R.T. -0.01 min
Lab File: VL035354.D
Acq: 6 Aug 2020 17:50

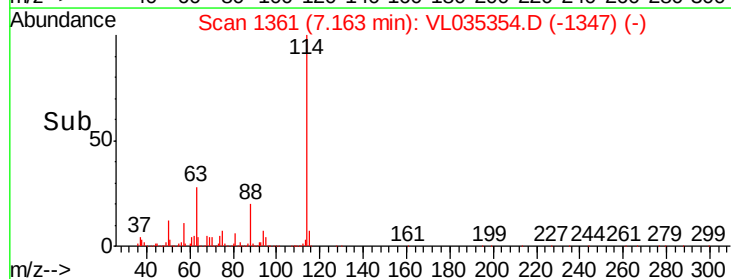
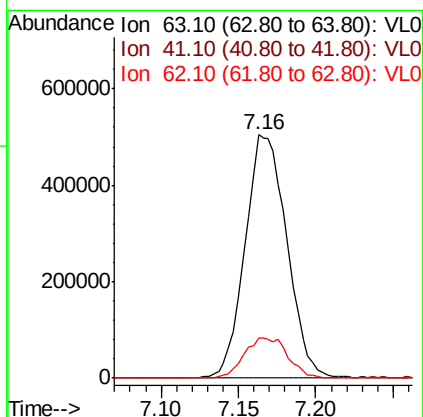
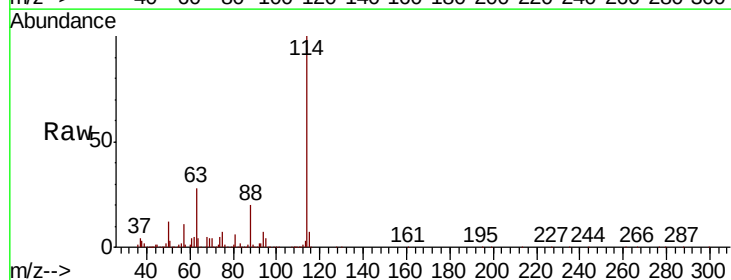
Instrument :
MSVOA_L
ClientSampleId :

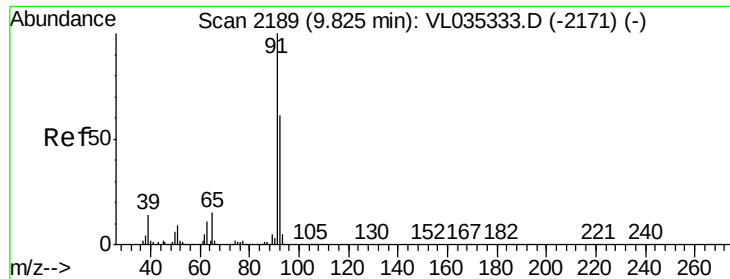
Tot Ion: 43 Resp: 66105
Ion Ratio Lower Upper
43 100
72 25.2 18.9 28.3



#39
1,2-Dichloropropane
Concen: 9.575 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.46 min
Lab File: VL035354.D
Acq: 6 Aug 2020 17:50

Tgt Ion: 63 Resp: 946024
Ion Ratio Lower Upper
63 100
41 0.0 64.4 96.6#
62 16.6 52.6 78.8#





#53

Toluene

Concen: 0.158 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. -0.02 min

Lab File: VL035354.D

Acq: 6 Aug 2020 17:50

Instrument :

MSVOA_L

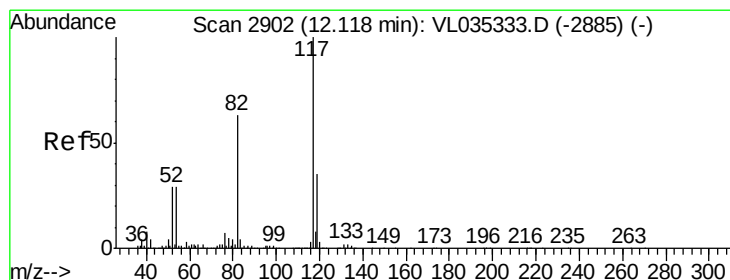
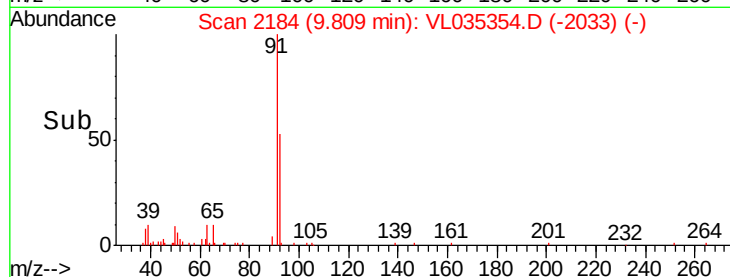
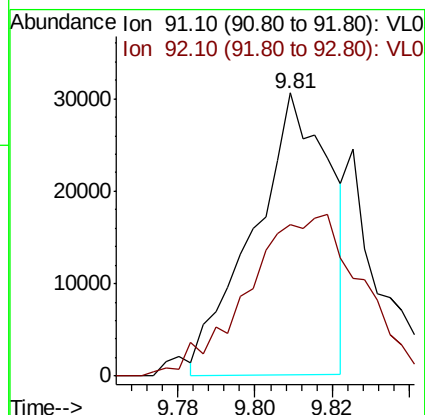
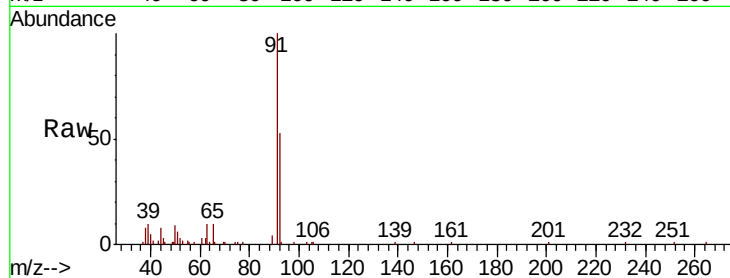
ClientSampleId :

Tot Ion: 91 Resp: 41920

Ion Ratio Lower Upper

91 100

92 0.0 48.5 72.7#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. -0.02 min

Lab File: VL035354.D

Acq: 6 Aug 2020 17:50

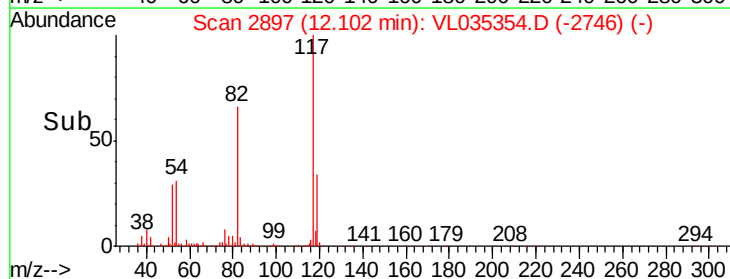
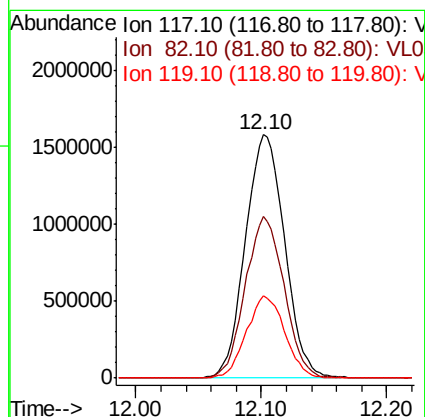
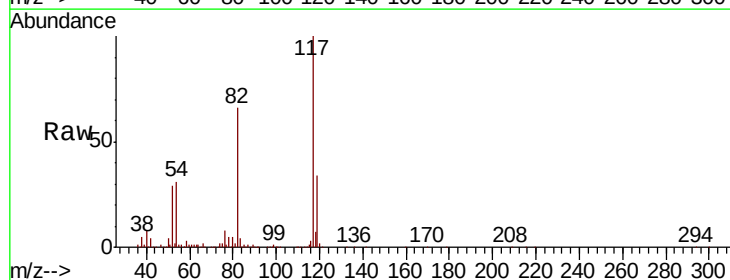
Tgt Ion: 117 Resp: 3444810

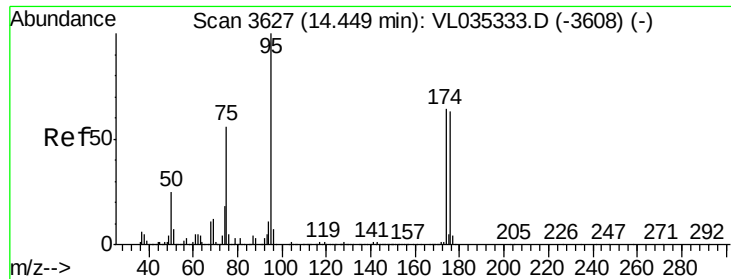
Ion Ratio Lower Upper

117 100

82 66.2 51.0 76.4

119 33.2 24.7 37.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.016 ppbv

RT: 14.44 min Scan# 3624

Delta R.T. -0.01 min

Lab File: VL035354.D

Acq: 6 Aug 2020 17:50

Instrument :

MSVOA_L

ClientSampleId :

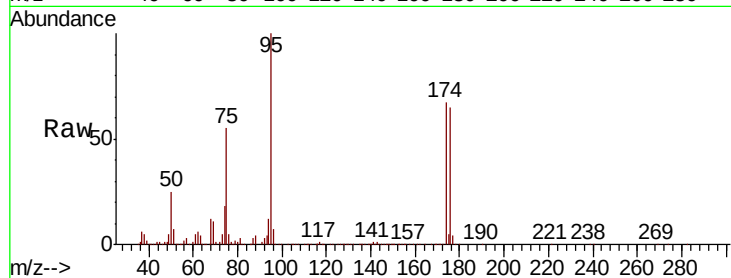
Tot Ion: 95 Resp: 2877284

Ion Ratio Lower Upper

95 100

174 68.5 53.5 80.3

175 5.2 4.2 6.2



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

