

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042721\
 Data File : VL036860.D
 Acq On : 27 Apr 2021 16:32
 Operator : SY/AP
 Sample : M2172-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 28 05:24:55 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Apr 27 16:56:35 2021
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1477404	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.18	114	3455502	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3024026	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2477604	10.21	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

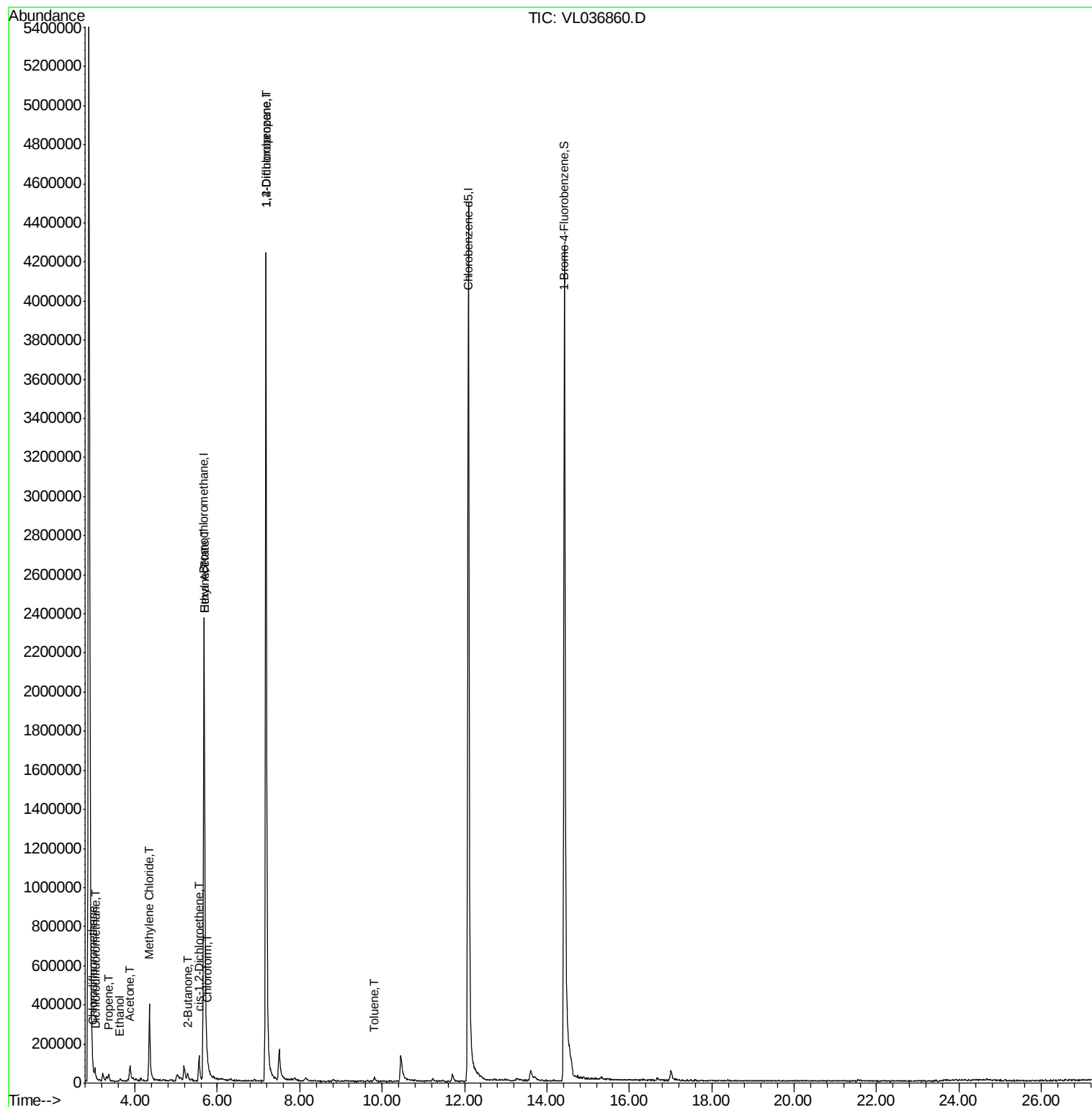
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	11673	0.050 ppbv #	88
3) Chlorodifluoromethane	3.00	51	12553	0.047 ppbv	97
9) Propene	3.36	41	8308	0.101 ppbv	97
13) Ethanol	3.61	45	458	0.044 ppbv #	34
15) Acetone	3.87	43	45749	0.329 ppbv #	48
20) Methylene Chloride	4.35	84	154561	2.321 ppbv	90
25) Ethyl Acetate	5.69	43	46565	0.137 ppbv #	80
26) Hexane	5.69	57	117800	0.740 ppbv #	42
29) Chloroform	5.75	83	10121	0.041 ppbv	93
31) cis-1,2-Dichloroethene	5.56	61	51239	0.359 ppbv	95
34) 2-Butanone	5.27	43	21874	0.145 ppbv #	54
39) 1,2-Dichloropropane	7.18	63	915298	7.847 ppbv #	23
53) Toluene	9.81	91	9810	0.032 ppbv #	20

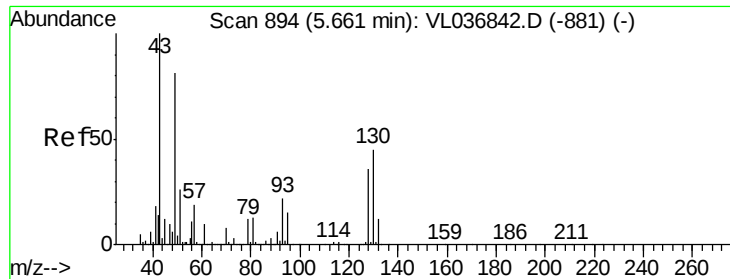
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Apr 27 16:56:35 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File:

Acq: 27 Apr 2021 16:32

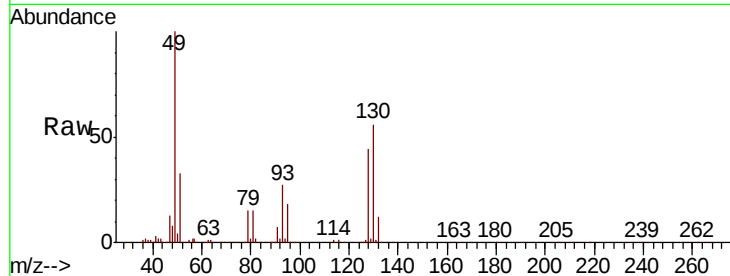
Tot Ion: 49 Resp: 1477404

Ion Ratio Lower Upper

49 100

128 46.6 24.4 73.2

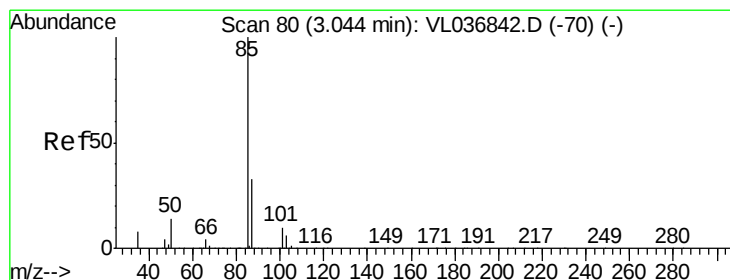
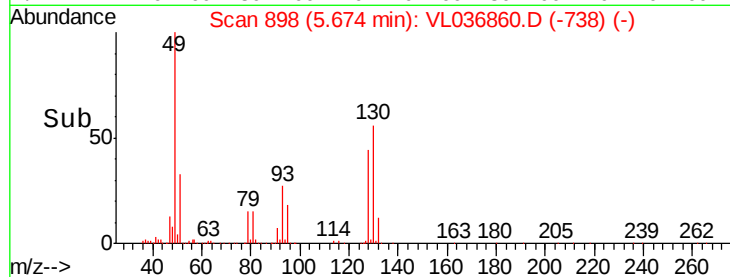
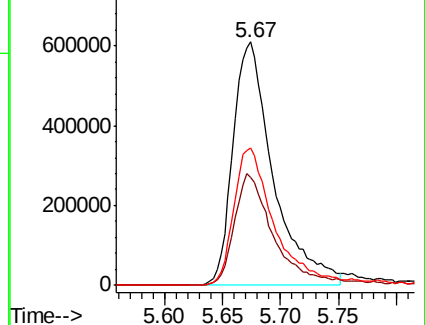
130 59.8 30.3 90.8



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: 0.050 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL036860.D

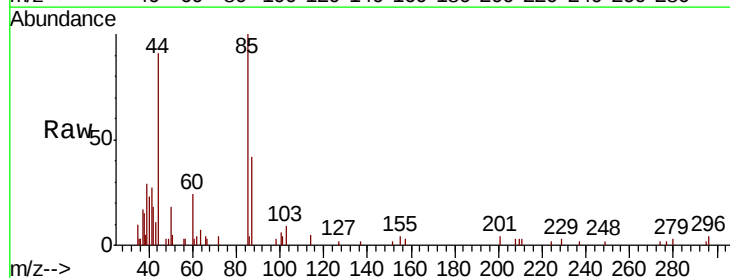
Acq: 27 Apr 2021 16:32

Tgt Ion: 85 Resp: 11673

Ion Ratio Lower Upper

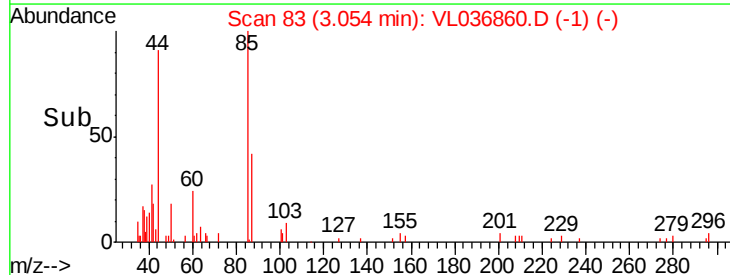
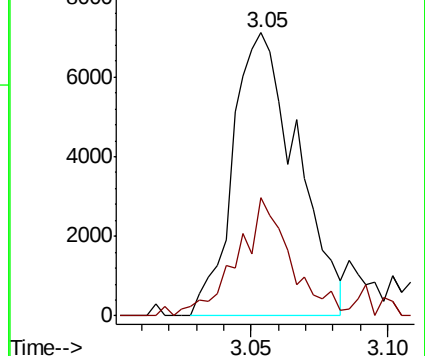
85 100

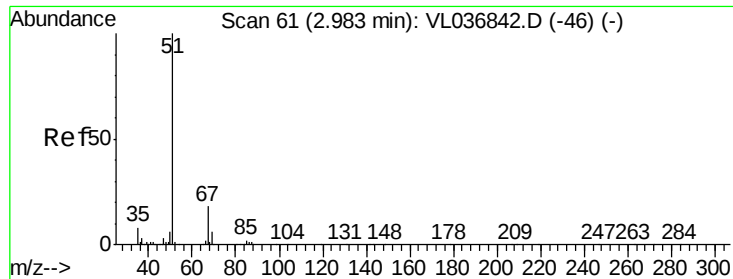
87 39.4 26.2 39.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

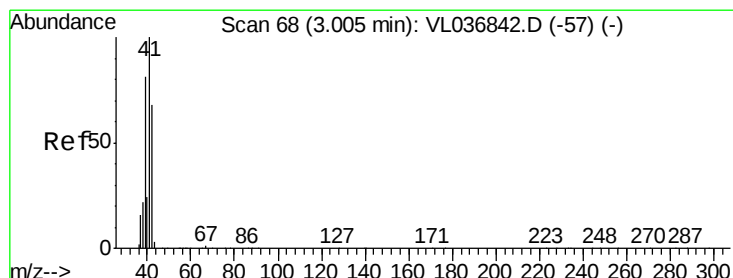
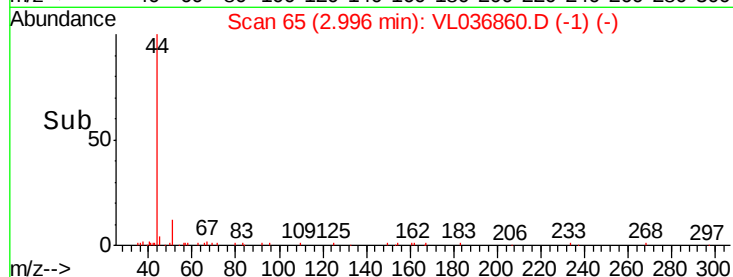
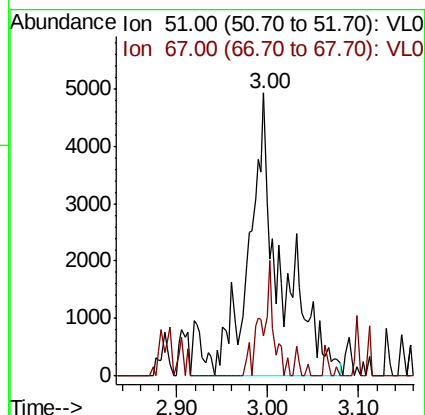
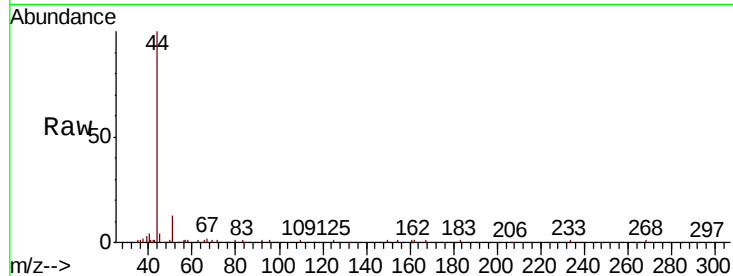
Ion 87.00 (86.70 to 87.70): VL0





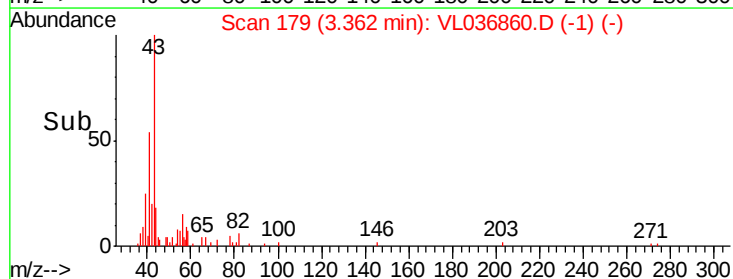
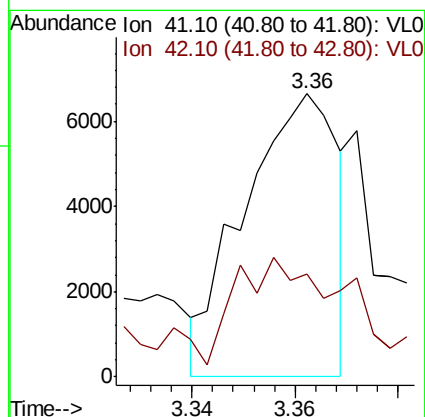
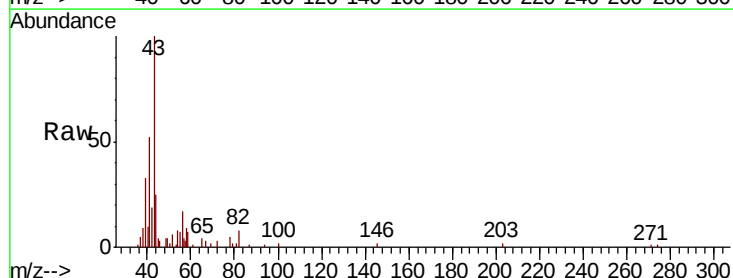
#3
 Chlorodifluoromethane
 Concen: 0.047 ppbv
 RT: 3.00 Instrument :
 Delta R.T. MSVOA.L
 Lab File: ClientSampleId :
 Acq: 27 Apr 2021 16:32

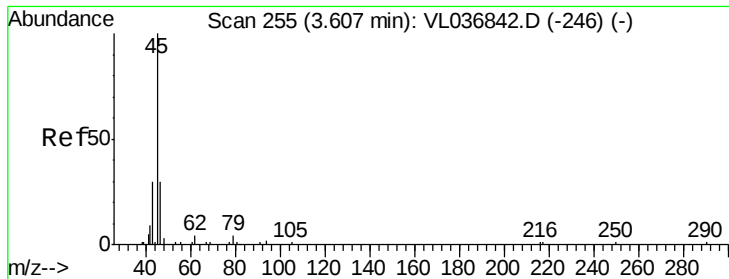
Tot Ion: 51 Resp: 12553
 Ion Ratio Lower Upper
 51 100
 67 17.0 14.8 22.2



#9
 Propene
 Concen: 0.101 ppbv
 RT: 3.36 min Scan# 179
 Delta R.T. 0.36 min
 Lab File: VL036860.D
 Acq: 27 Apr 2021 16:32

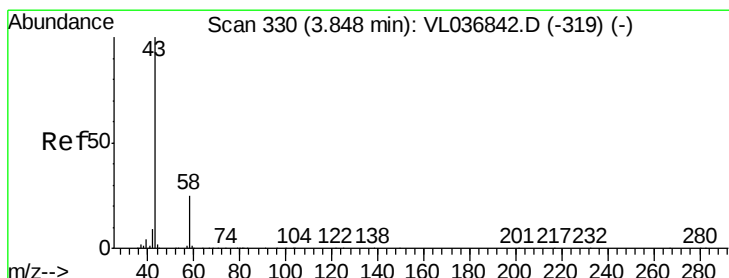
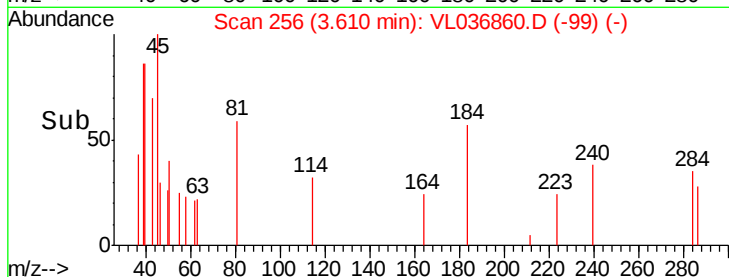
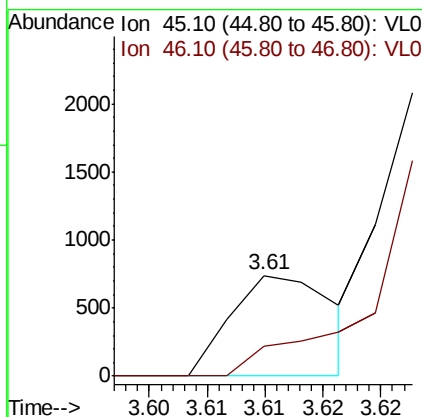
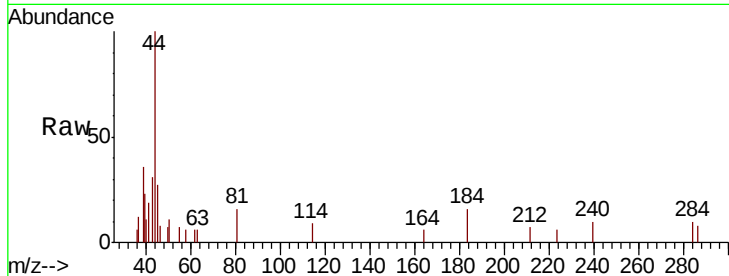
Tgt Ion: 41 Resp: 8308
 Ion Ratio Lower Upper
 41 100
 42 67.6 56.0 84.0





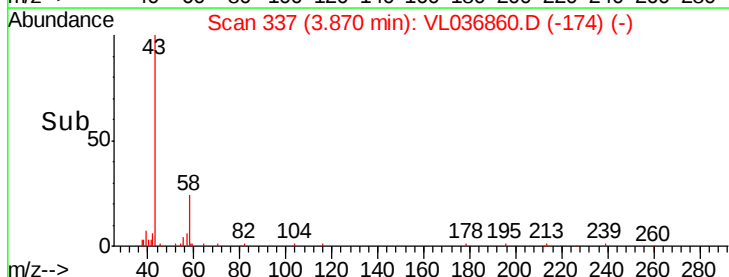
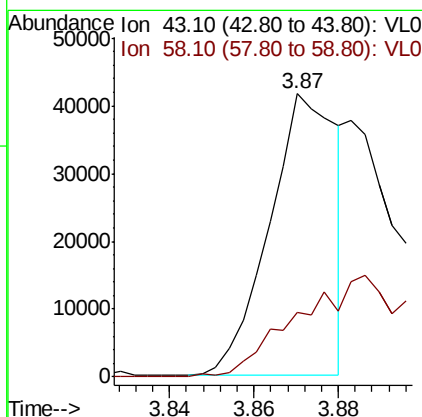
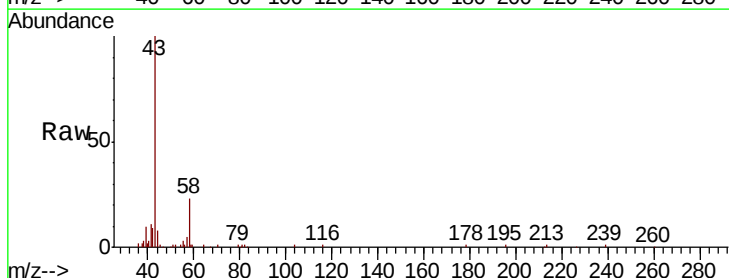
#13
Ethanol
Concen: 0.044 ppbv
RT: 3.61 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Apr 2021 16:32

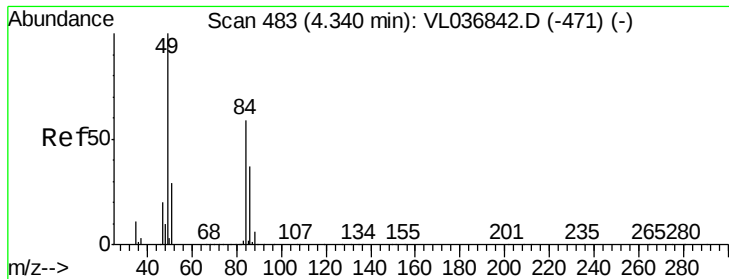
Tot Ion: 45 Resp: 458
Ion Ratio Lower Upper
45 100
46 0.0 16.8 67.4#



#15
Acetone
Concen: 0.329 ppbv
RT: 3.87 min Scan# 337
Delta R.T. 0.02 min
Lab File: VL036860.D
Acq: 27 Apr 2021 16:32

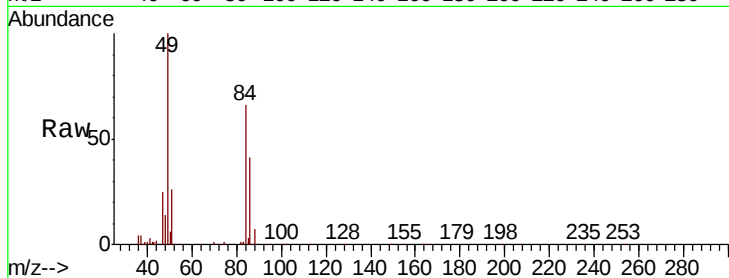
Tgt Ion: 43 Resp: 45749
Ion Ratio Lower Upper
43 100
58 0.0 21.7 32.5#



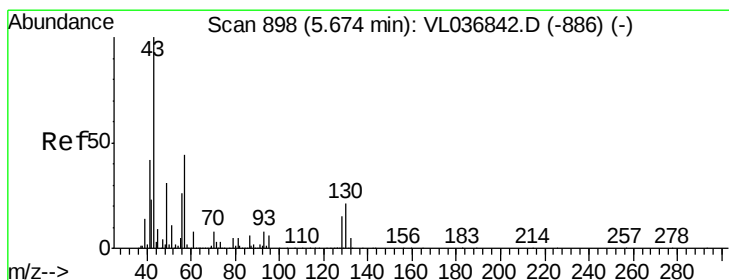
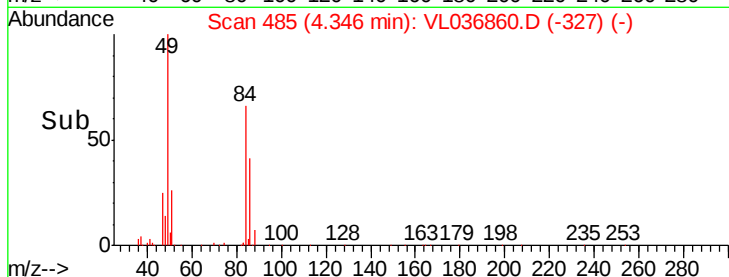
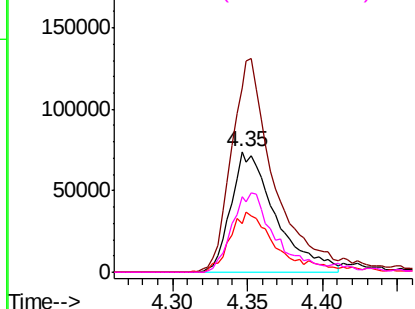


#20
Methvlene Chloride
Concen: 2.321 ppbv
RT: 4.35 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 27 Apr 2021 16:32

Tot Ion:	84	Resp:	154561
Ion	Ratio	Lower	Upper
84	100		
49	152.7	135.4	203.0
51	39.8	39.3	58.9
86	63.1	50.2	75.2

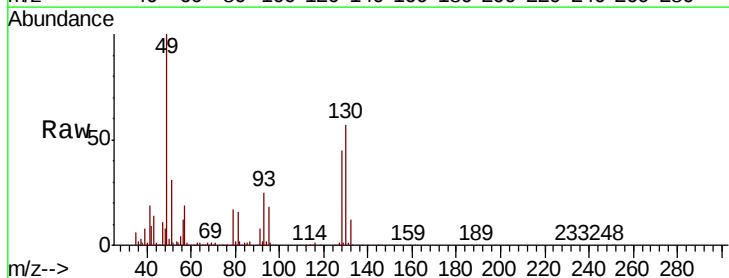


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

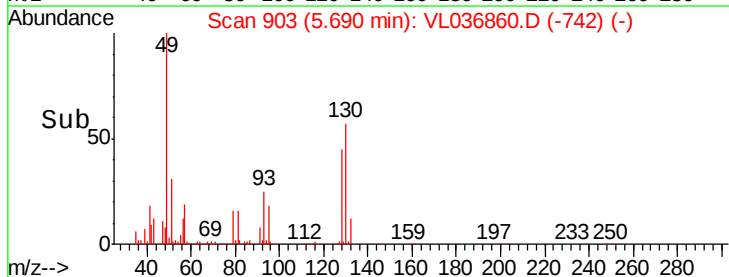
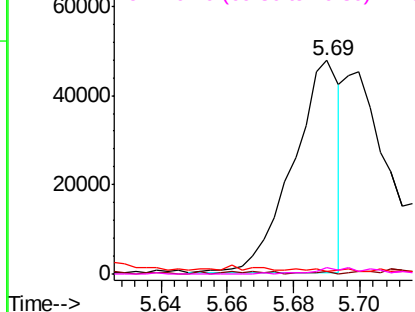


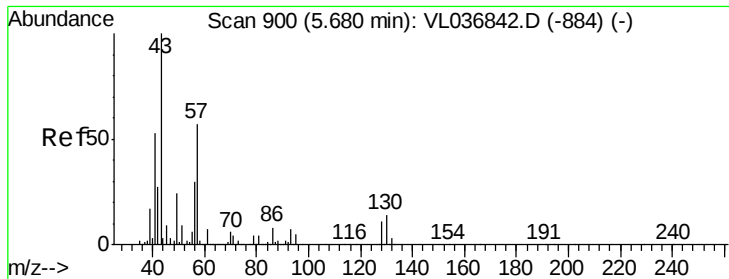
#25
Ethyl Acetate
Concen: 0.137 ppbv
RT: 5.69 min Scan# 903
Delta R.T.: 0.02 min
Lab File: VL036860.D
Acq: 27 Apr 2021 16:32

Tgt Ion:	43	Resp:	46565
Ion	Ratio	Lower	Upper
43	100		
45	1.0	7.8	11.8#
61	0.0	7.4	11.0#
70	4.3	5.4	8.0#



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: 0.740 ppbv

RT: 5.69 Instrument:

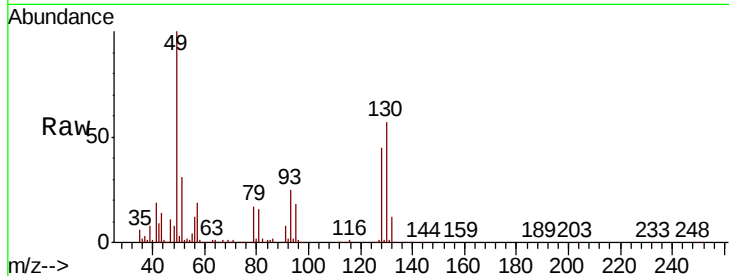
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

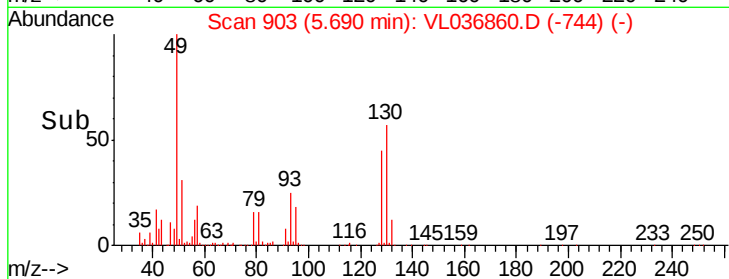
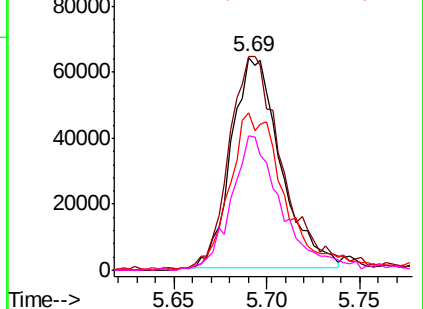
Acq: 27 Apr 2021 16:32

Tot Ion: 57 Resp: 117800

Ion	Ratio	Lower	Upper
57	100		
41	115.4	77.7	116.5
43	85.4	180.5	270.7#
56	65.2	44.6	66.8



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



#29

Chloroform

Concen: 0.041 ppbv

RT: 5.75 min Scan# 923

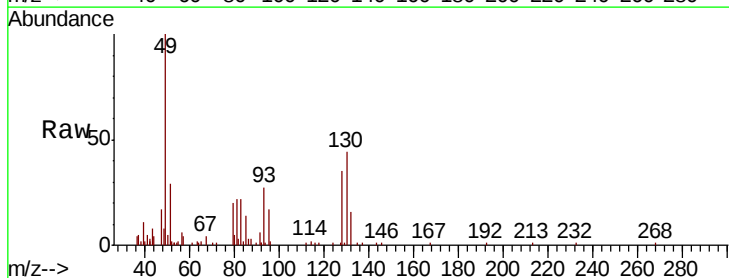
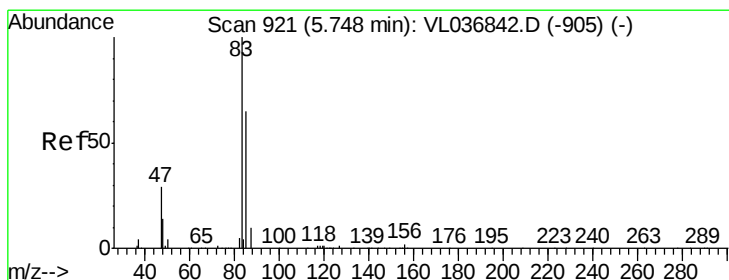
Delta R.T. 0.01 min

Lab File: VL036860.D

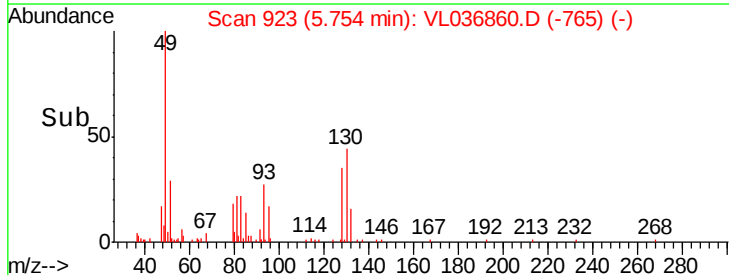
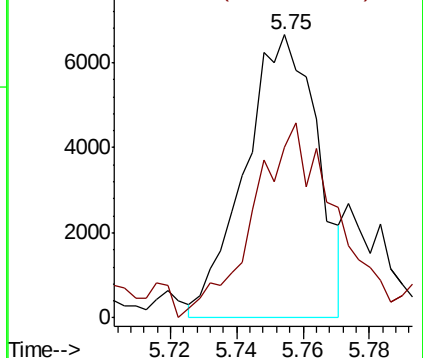
Acq: 27 Apr 2021 16:32

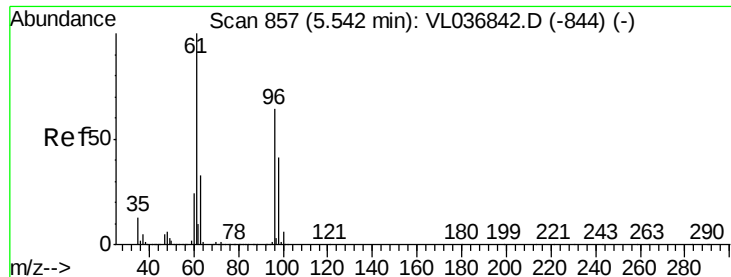
Tgt Ion: 83 Resp: 10121

Ion	Ratio	Lower	Upper
83	100		
85	59.9	52.2	78.4



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





#31

cis-1,2-Dichloroethene

Concen: 0.359 ppbv

RT: 5.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 16:32

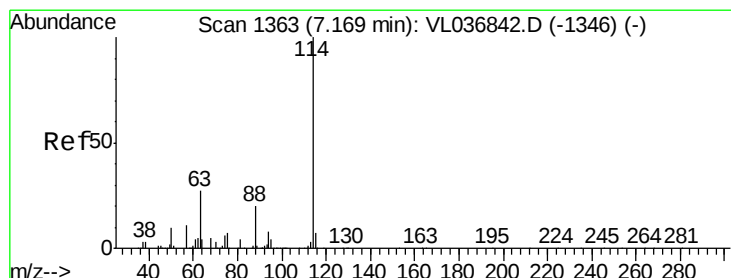
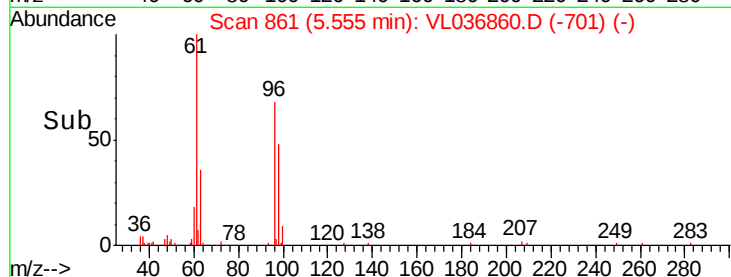
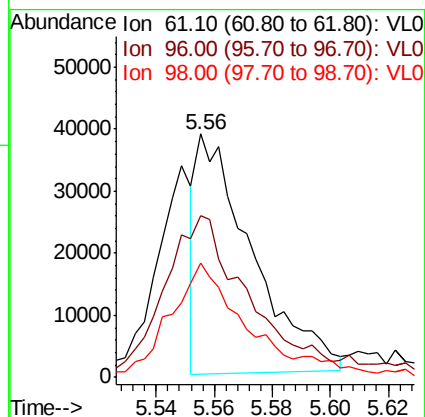
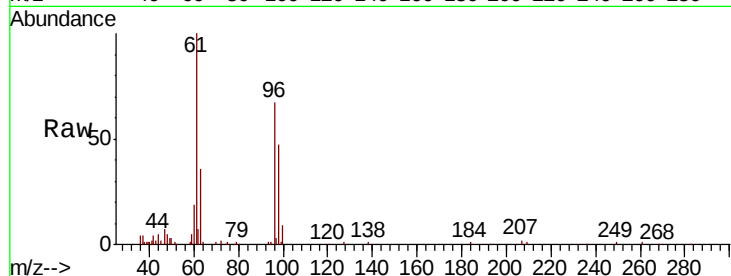
Tot Ion: 61 Resp: 51239

Ion Ratio Lower Upper

61 100

96 65.3 51.0 76.6

98 47.2 32.7 49.1



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. 0.01 min

Lab File: VL036860.D

Acq: 27 Apr 2021 16:32

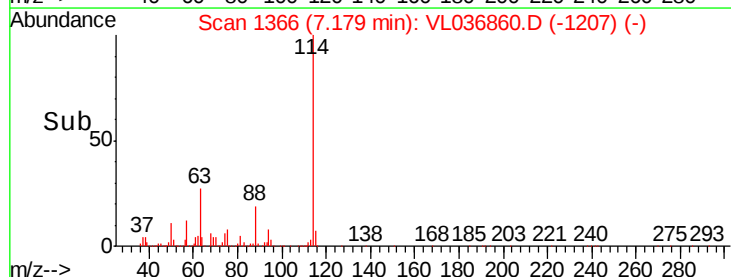
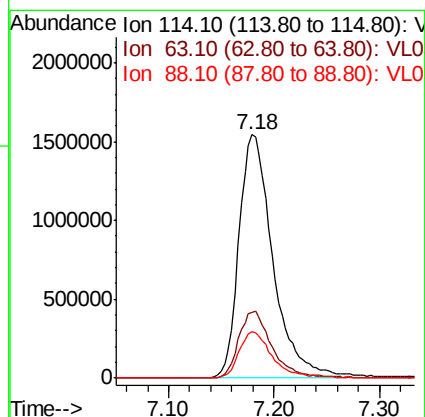
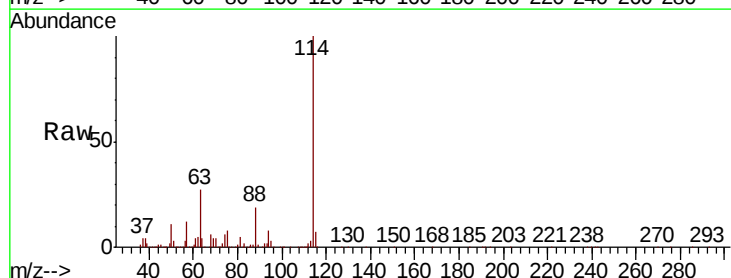
Tgt Ion: 114 Resp: 3455502

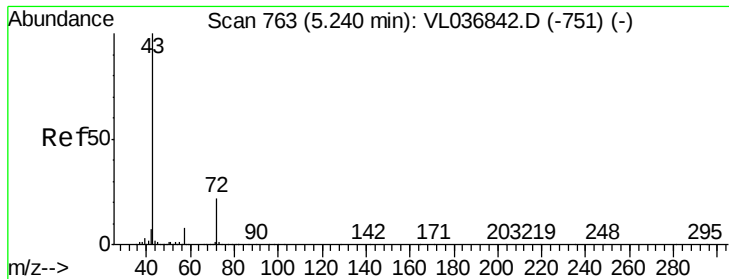
Ion Ratio Lower Upper

114 100

63 27.6 21.9 32.9

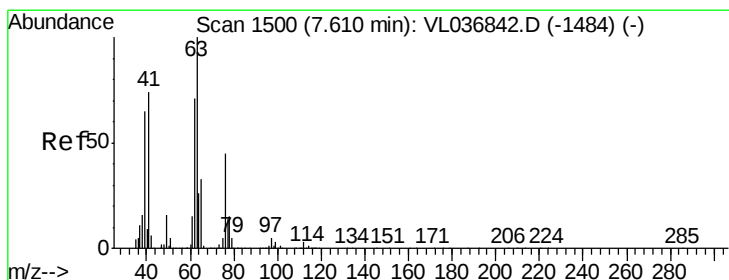
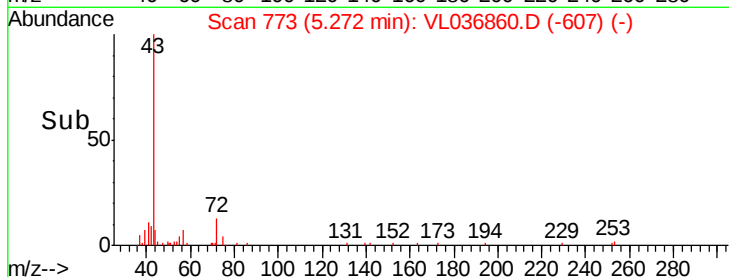
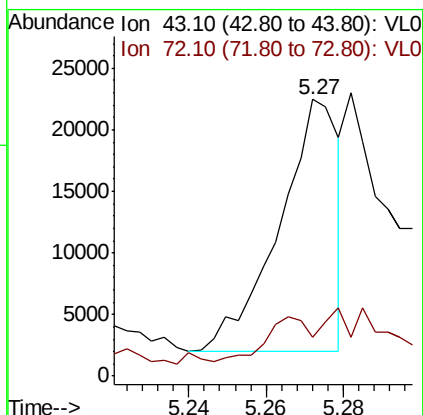
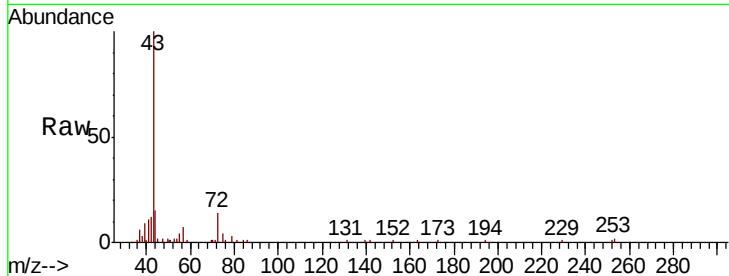
88 19.0 15.1 22.7





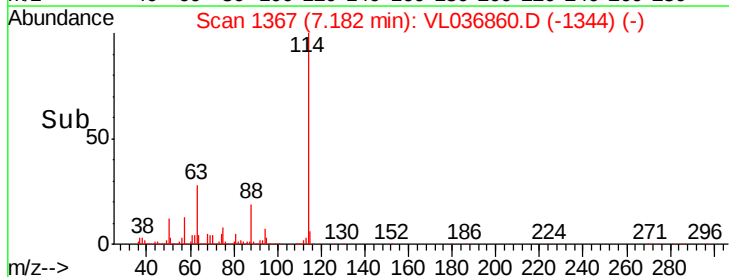
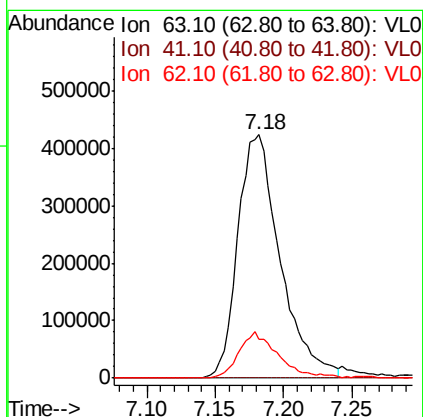
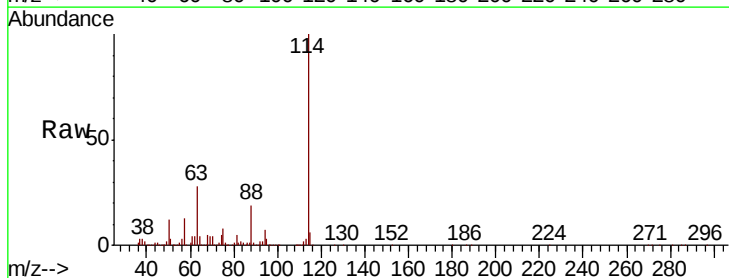
#34
 2-Butanone
 Concen: 0.145 ppbv
 RT: 5.27 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Apr 2021 16:32

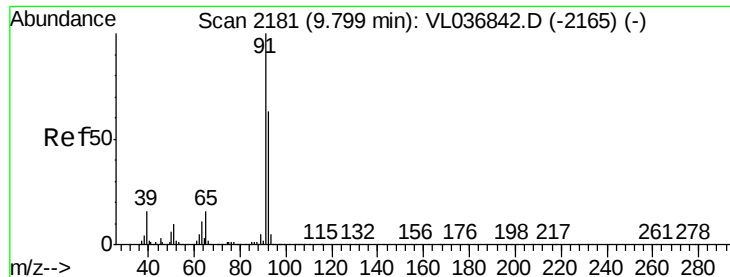
Tot Ion: 43 Resp: 21874
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.6 26.4#



#39
 1,2-Dichloropropane
 Concen: 7.847 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.43 min
 Lab File: VL036860.D
 Acq: 27 Apr 2021 16:32

Tgt Ion: 63 Resp: 915298
 Ion Ratio Lower Upper
 63 100
 41 0.0 59.1 88.7#
 62 16.1 56.9 85.3#





#53

Toluene

Concen: 0.032 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

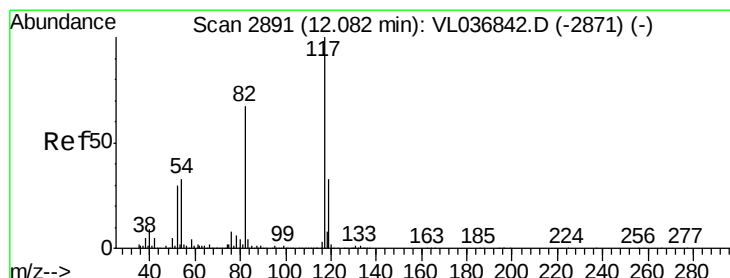
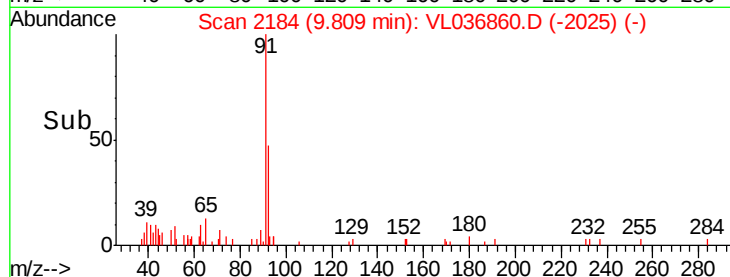
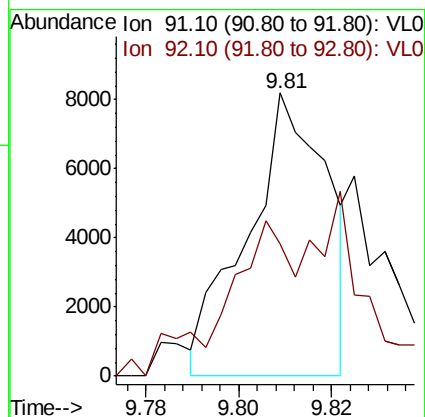
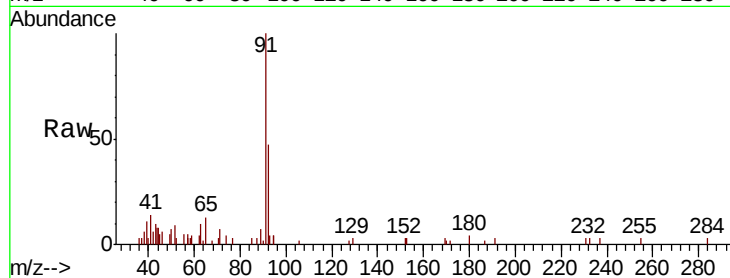
Acq: 27 Apr 2021 16:32

Tot Ion: 91 Resp: 9810

Ion Ratio Lower Upper

91 100

92 0.0 49.0 73.4#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. 0.01 min

Lab File: VL036860.D

Acq: 27 Apr 2021 16:32

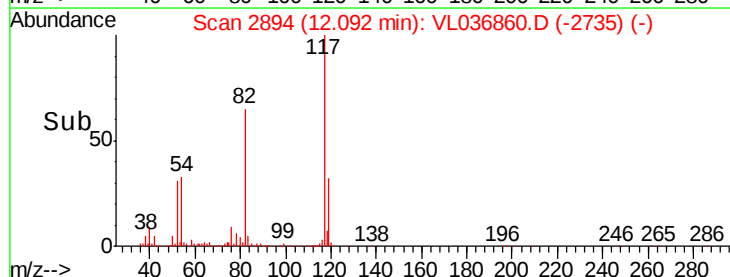
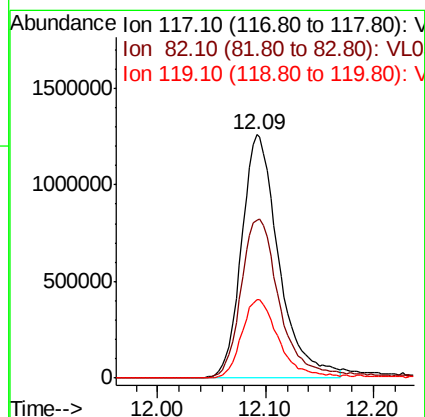
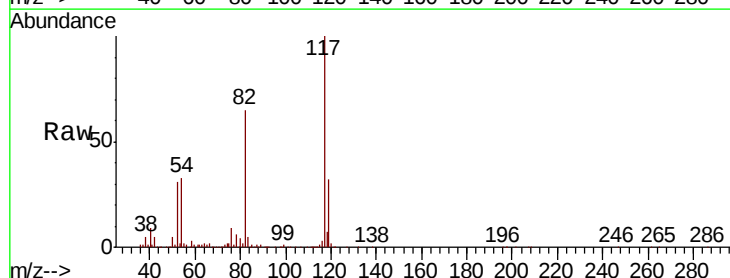
Tgt Ion: 117 Resp: 3024026

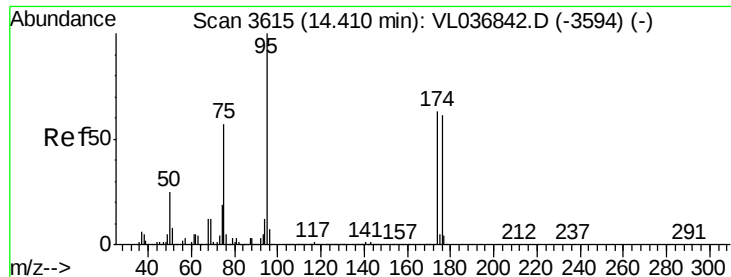
Ion Ratio Lower Upper

117 100

82 71.0 53.5 80.3

119 34.2 25.6 38.4





#68

1-Bromo-4-Fluorobenzene

Concen: 10.206 ppbv

RT: 14.42 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 27 Apr 2021 10:32

Tot Ion: 95 Resp: 2477604

Ion Ratio Lower Upper

95 100

174 64.4 52.2 78.2

175 4.4 4.0 6.0

