

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL051821\
 Data File : VL036973.D
 Acq On : 18 May 2021 17:43
 Operator : SY/AP
 Sample : M2430-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: May 19 03:14:31 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue May 18 12:00:15 2021
 QLast Update : Tue May 18 12:00:15 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1258241	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3893052	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3619512	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2742468	10.09	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.90%

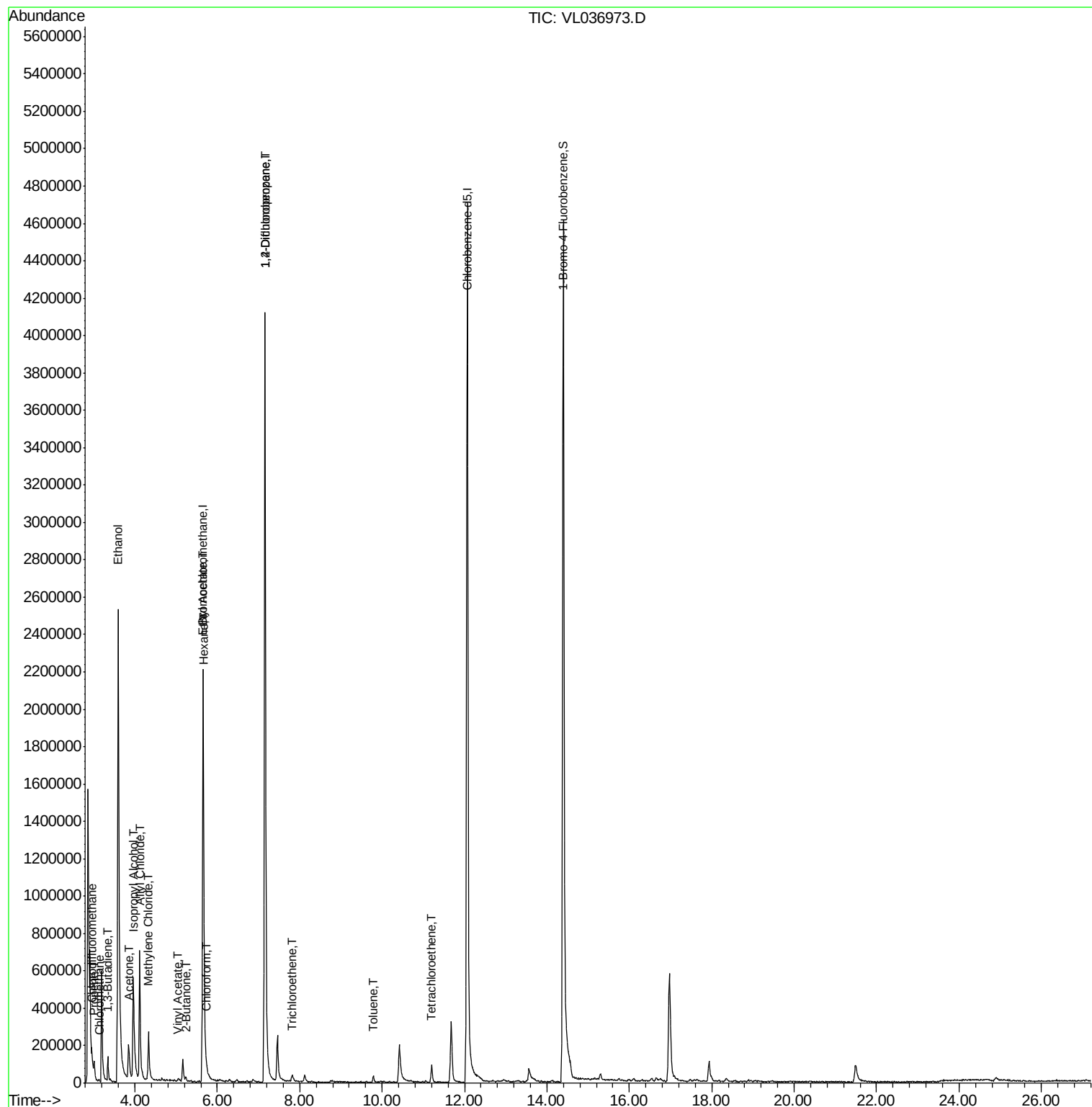
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.95	51	185174	0.803	ppbv #	74
4) Chloromethane	3.13	50	6567	0.084	ppbv	97
9) Propene	3.01	41	28474	0.345	ppbv	91
13) Ethanol	3.59	45	3795629	344.644	ppbv	93
15) Acetone	3.84	43	202077	1.568	ppbv #	82
16) 1,3-Butadiene	3.34	39	19839	0.248	ppbv #	21
19) Isopropyl Alcohol	3.96	45	825974	11.923	ppbv #	35
20) Methylene Chloride	4.33	84	114870	1.663	ppbv	94
21) Allyl Chloride	4.12	41	248230	2.553	ppbv #	52
23) Vinyl Acetate	5.06	43	6545	0.032	ppbv #	52
25) Ethyl Acetate	5.66	43	54353	0.176	ppbv #	87
26) Hexane	5.67	57	104149	0.658	ppbv #	65
29) Chloroform	5.73	83	12009	0.054	ppbv	86
34) 2-Butanone	5.23	43	8062	0.057	ppbv #	52
38) Trichloroethene	7.81	130	8689	0.061	ppbv #	86
39) 1,2-Dichloropropane	7.16	63	910665	7.050	ppbv #	25
52) Tetrachloroethene	11.21	164	10359	0.078	ppbv	93
53) Toluene	9.79	91	12826	0.032	ppbv #	31

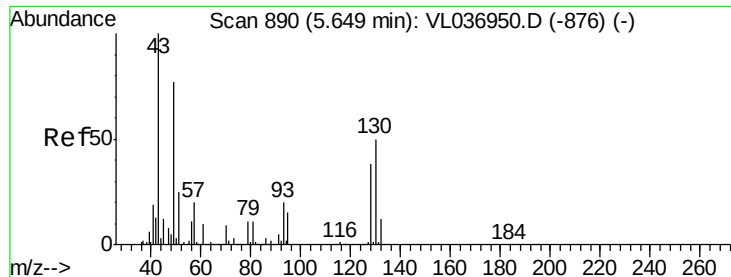
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL051821AIR.M
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QLast Update : Tue May 18 12:00:15 2021
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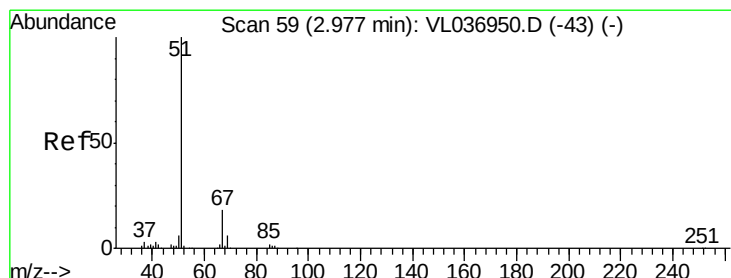
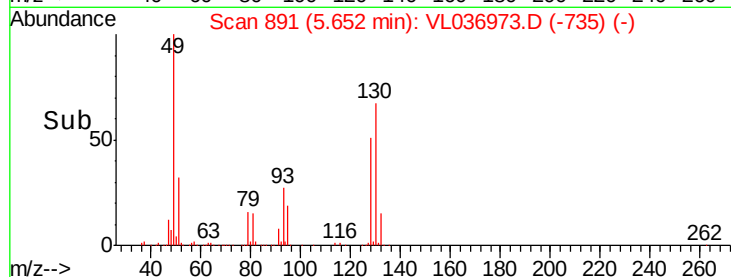
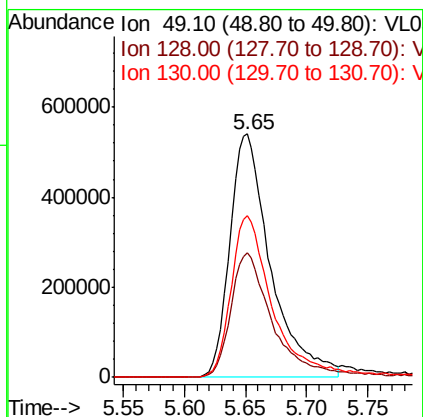
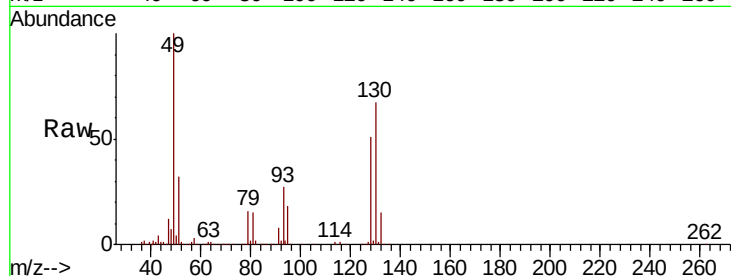




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 891
 Delta R.T. 0.00 min
 Lab File: VL036973.D
 Acq: 18 May 2021 17:43

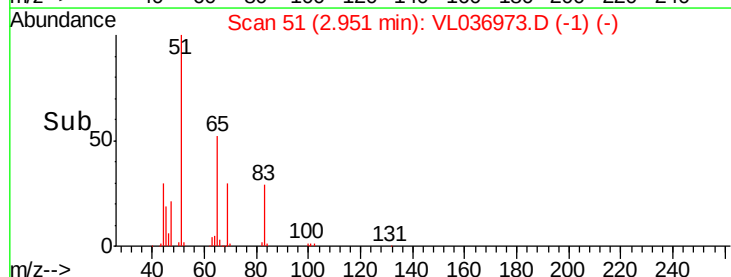
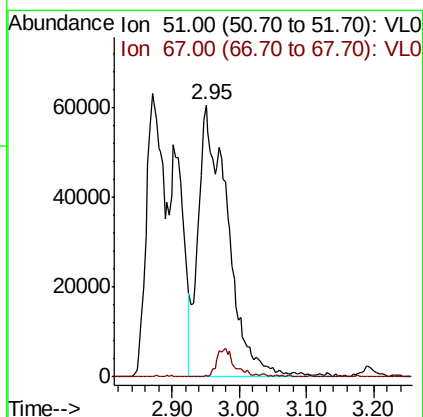
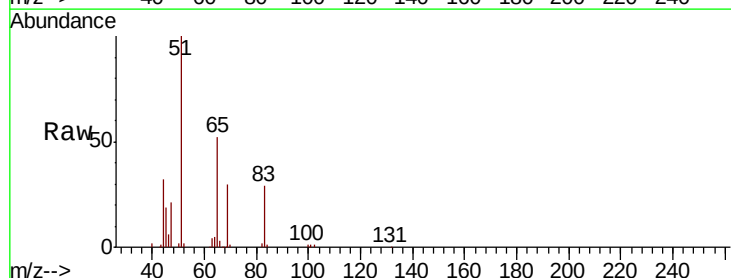
Instrument :
 MSVOA_L
 ClientSampleID :
 IA1DL

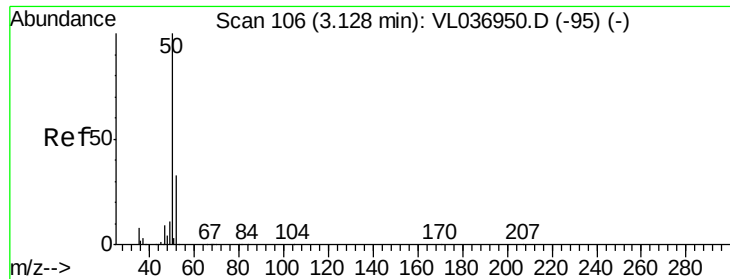
Tot Ion: 49 Resp: 1258241
 Ion Ratio Lower Upper
 49 100
 128 54.3 26.9 80.7
 130 69.9 33.8 101.4



#3
 Chlorodifluoromethane
 Concen: 0.803 ppbv
 RT: 2.95 min Scan# 51
 Delta R.T. -0.03 min
 Lab File: VL036973.D
 Acq: 18 May 2021 17:43

Tgt Ion: 51 Resp: 185174
 Ion Ratio Lower Upper
 51 100
 67 6.6 14.6 21.8#





#4

Chloromethane

Concen: 0.084 ppbv

RT: 3.13 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL036973.D

Acq: 18 May 2021 17:43

Instrument :

MSVOA_L

ClientSampleId :

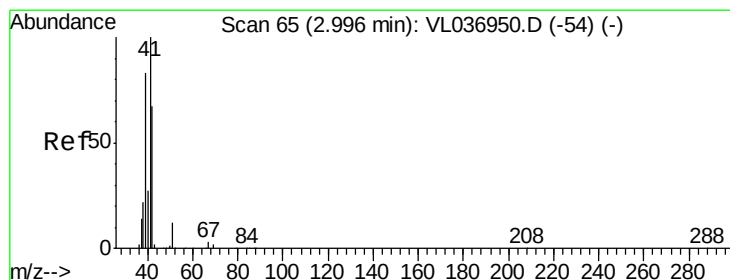
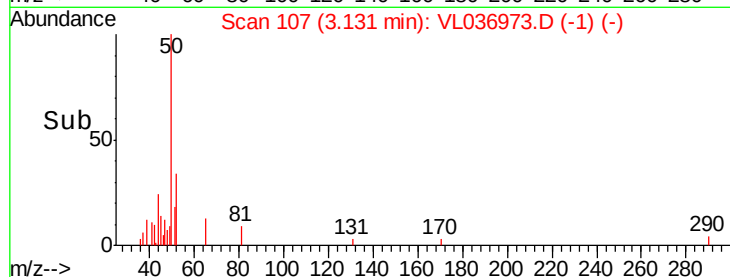
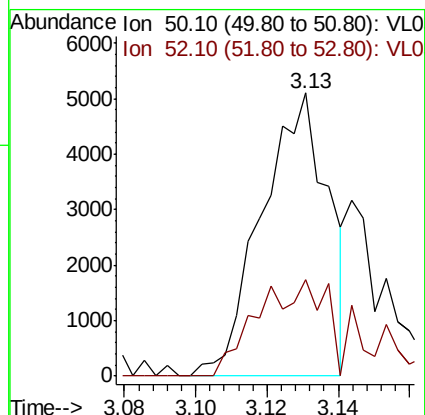
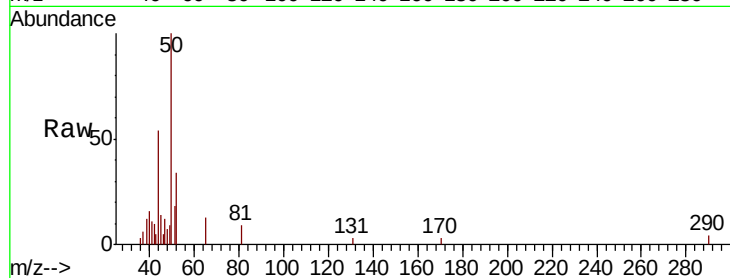
IA1DL

Tot Ion: 50 Resp: 6567

Ion Ratio Lower Upper

50 100

52 34.3 26.1 39.1



#9

Propene

Concen: 0.345 ppbv

RT: 3.01 min Scan# 68

Delta R.T. 0.01 min

Lab File: VL036973.D

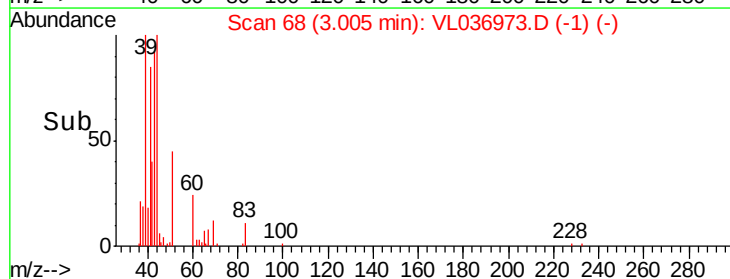
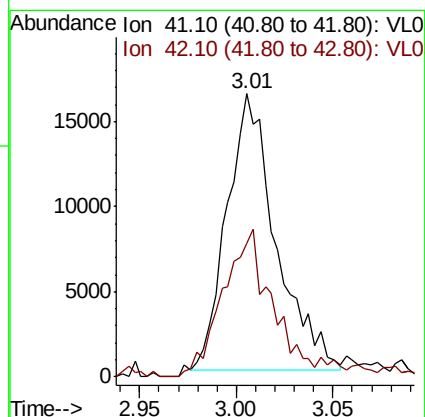
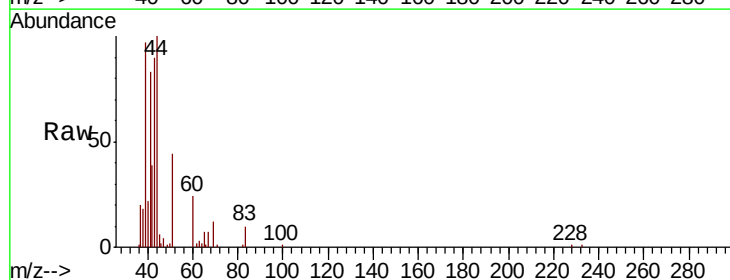
Acq: 18 May 2021 17:43

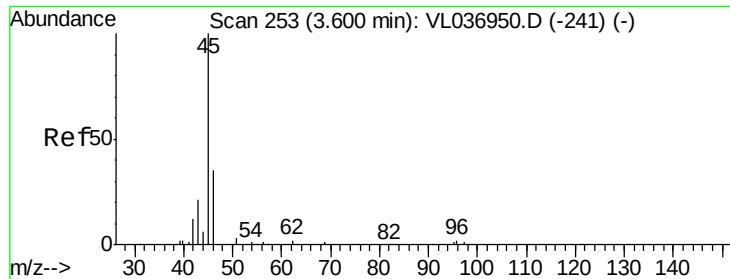
Tgt Ion: 41 Resp: 28474

Ion Ratio Lower Upper

41 100

42 59.9 53.9 80.9





#13

Ethanol

Concen: 344.644 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.01 min

Lab File: VL036973.D

Acq: 18 May 2021 17:43

Instrument :

MSVOA_L

ClientSampleId :

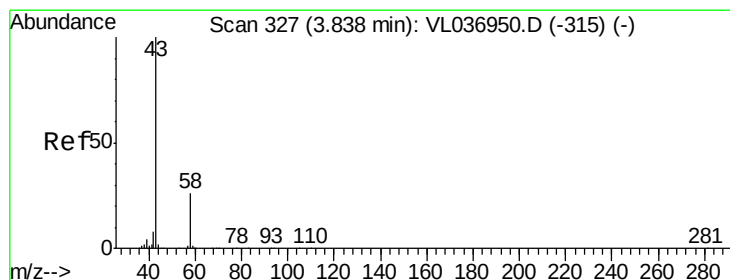
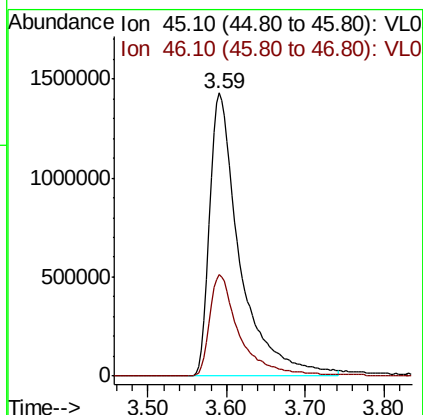
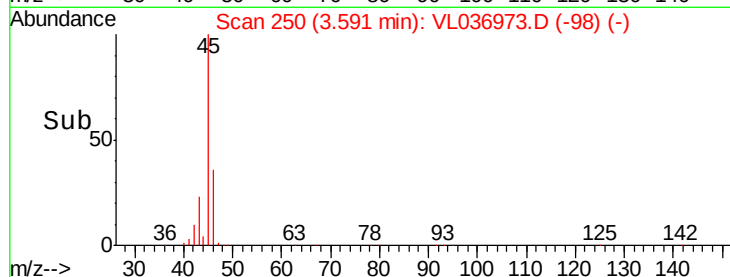
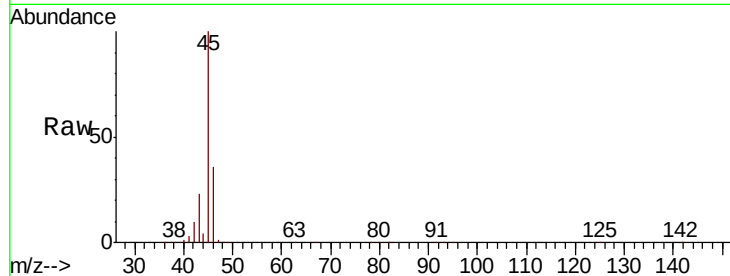
IA1DL

Tot Ion: 45 Resp: 3795629

Ion Ratio Lower Upper

45 100

46 36.5 16.3 65.3



#15

Acetone

Concen: 1.568 ppbv

RT: 3.84 min Scan# 329

Delta R.T. 0.01 min

Lab File: VL036973.D

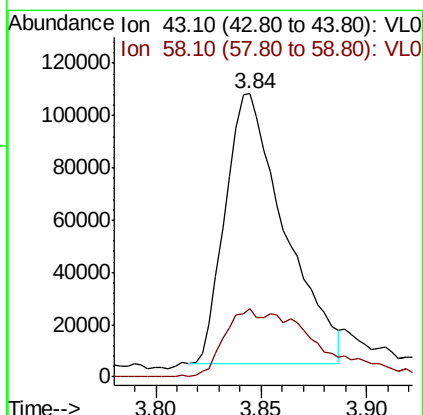
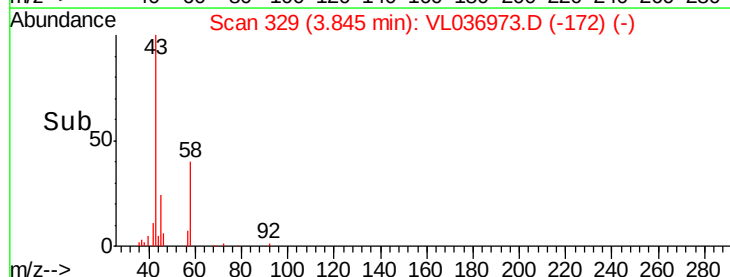
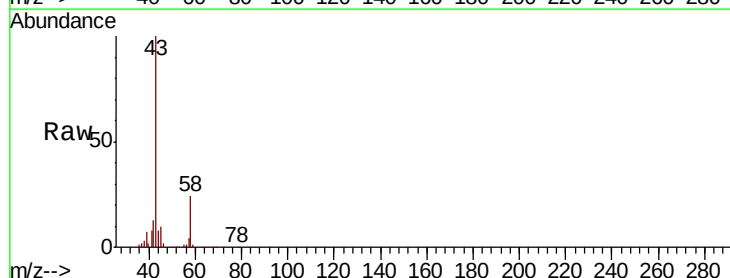
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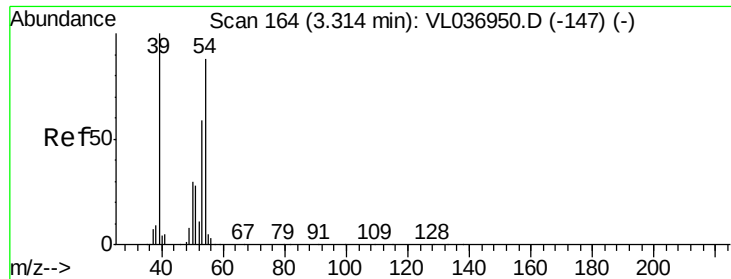
Tgt Ion: 43 Resp: 202077

Ion Ratio Lower Upper

43 100

58 39.6 24.0 36.0#

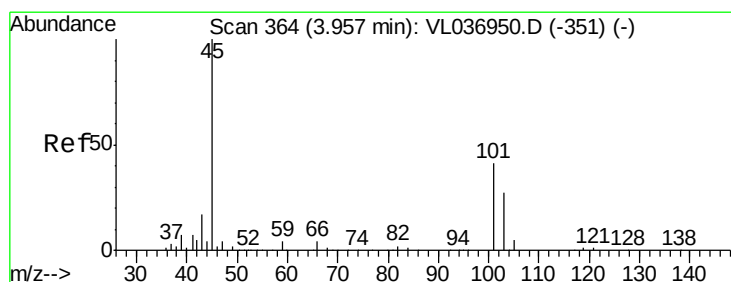
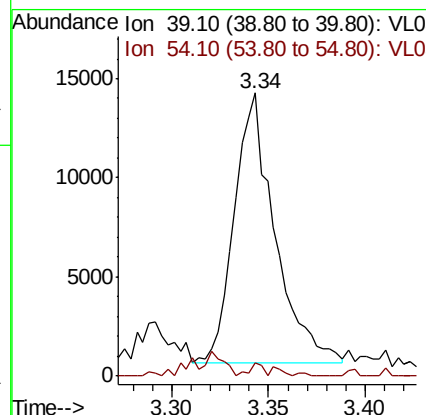
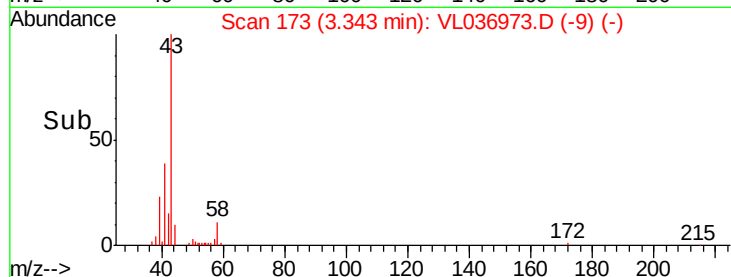
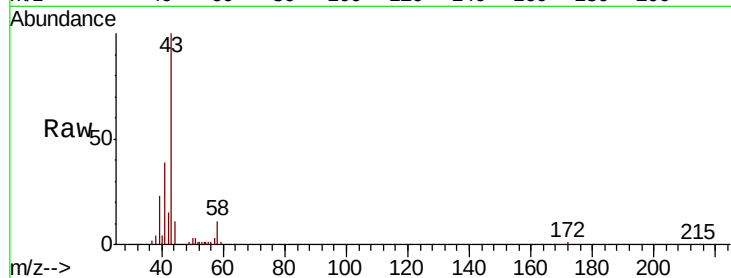




#16
 1,3-Butadiene
 Concen: 0.248 ppbv
 RT: 3.34 min Scan# 173
 Delta R.T. 0.03 min
 Lab File: VL036973.D
 Acq: 18 May 2021 17:43

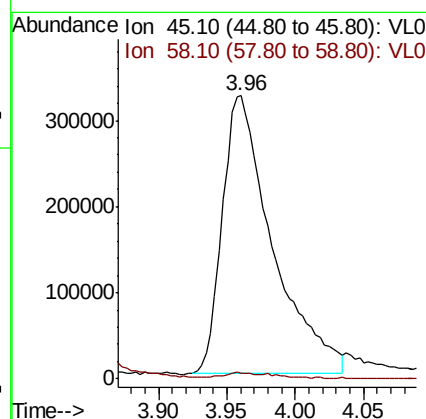
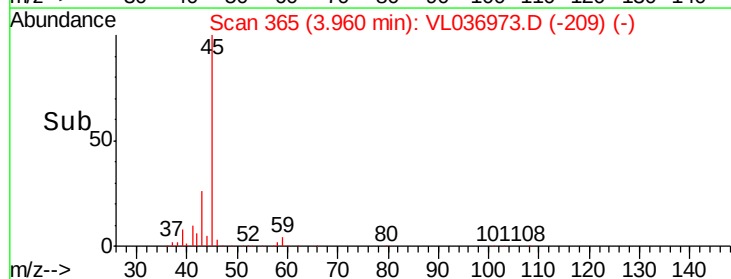
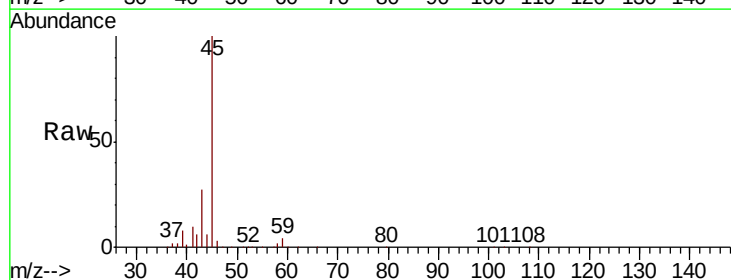
Instrument :
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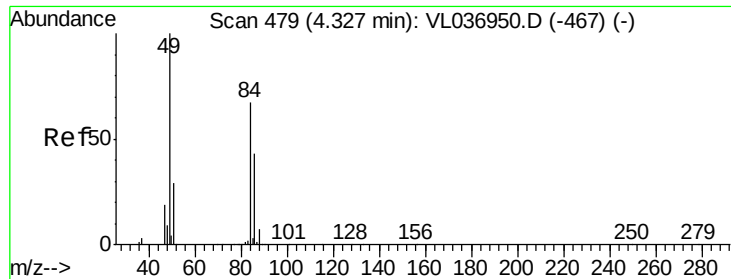
Tot Ion: 39 Resp: 19839
 Ion Ratio Lower Upper
 39 100
 54 9.7 63.2 94.8#



#19
 Isopropyl Alcohol
 Concen: 11.923 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.00 min
 Lab File: VL036973.D
 Acq: 18 May 2021 17:43

Tgt Ion: 45 Resp: 825974
 Ion Ratio Lower Upper
 45 100
 58 3.0 37.2 55.8#

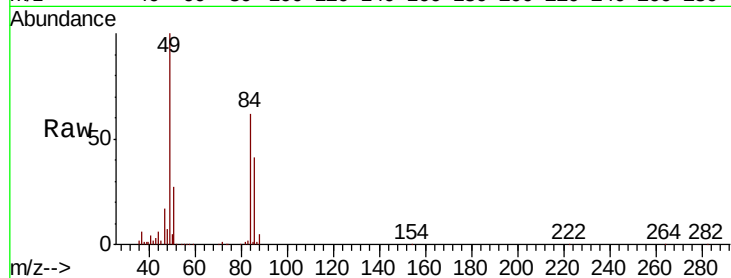




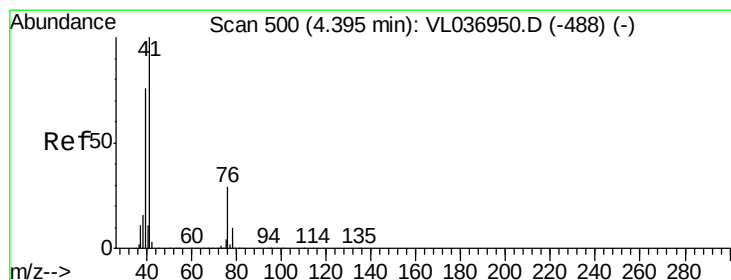
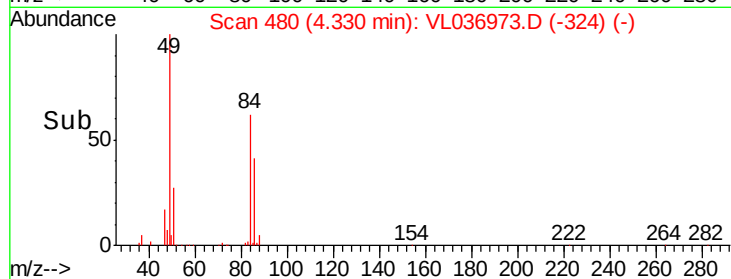
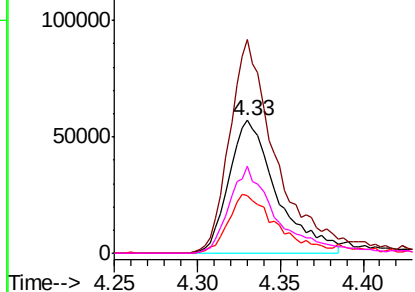
#20
Methylene Chloride
Concen: 1.663 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.00 min
Lab File: VL036973.D
Acq: 18 May 2021 17:43

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tot Ion:	84	Resp:	114870
Ion	Ratio	Lower	Upper
84	100		
49	160.6	119.8	179.6
51	43.3	35.1	52.7
86	65.6	50.9	76.3

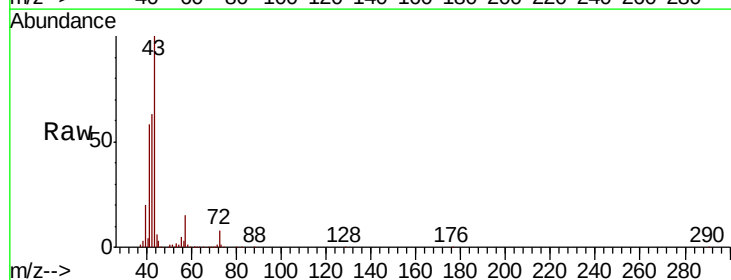


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

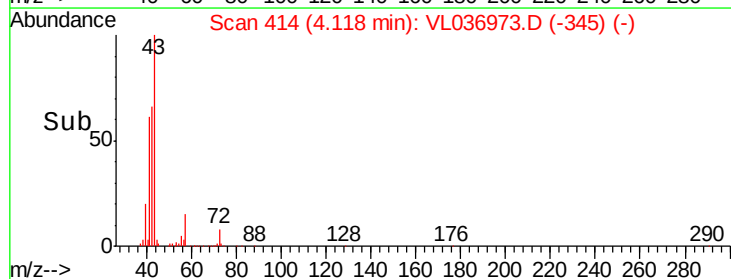
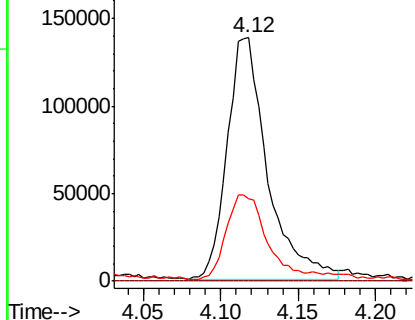


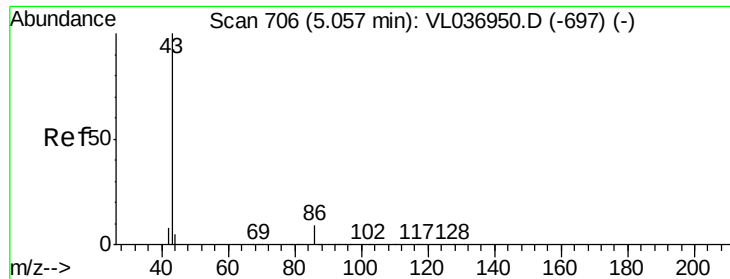
#21
Allyl Chloride
Concen: 2.553 ppbv
RT: 4.12 min Scan# 414
Delta R.T. -0.28 min
Lab File: VL036973.D
Acq: 18 May 2021 17:43

Tgt Ion:	41	Resp:	248230
Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.9	37.3#
39	39.8	63.7	95.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0

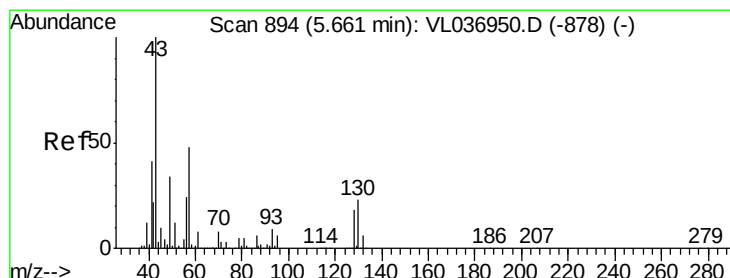
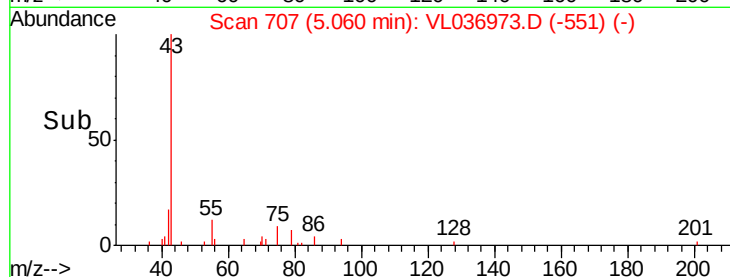
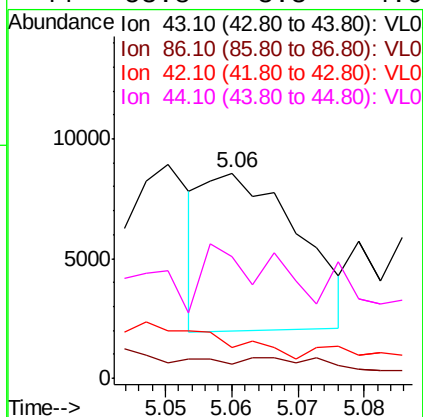
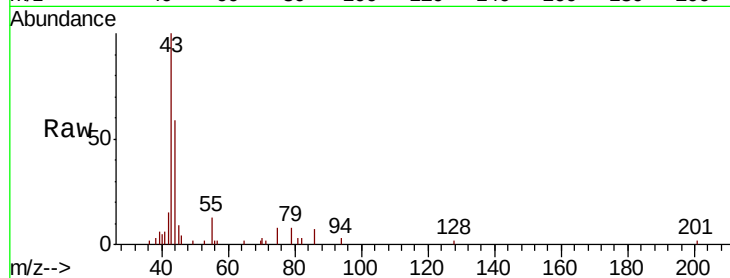




#23
 Vinyl Acetate
 Concen: 0.032 ppbv
 RT: 5.06 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VL036973.D
 Acq: 18 May 2021 17:43

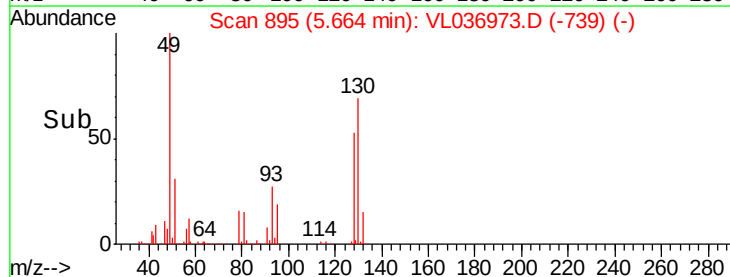
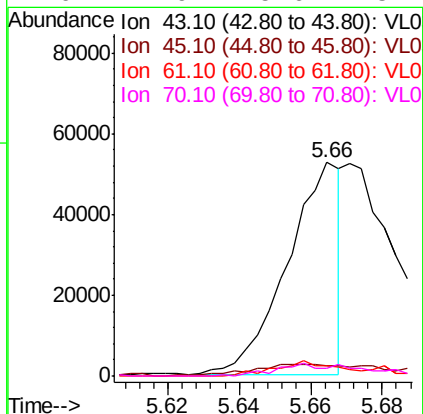
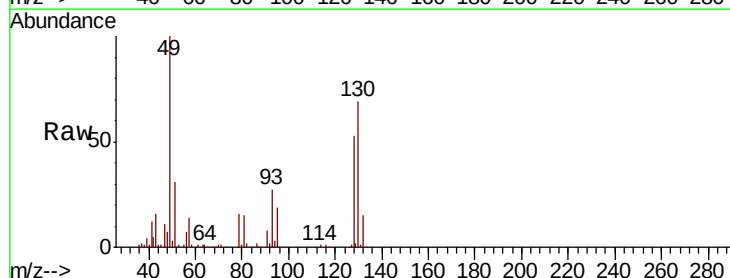
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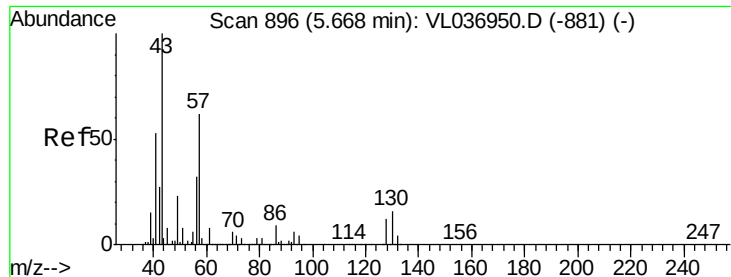
Tot Ion:	43	Resp:	6545
Ion	Ratio	Lower	Upper
43	100		
86	1.3	5.8	8.8#
42	0.0	7.4	11.2#
44	53.8	3.3	4.9#



#25
 Ethyl Acetate
 Concen: 0.176 ppbv
 RT: 5.66 min Scan# 895
 Delta R.T. 0.00 min
 Lab File: VL036973.D
 Acq: 18 May 2021 17:43

Tgt Ion:	43	Resp:	54353
Ion	Ratio	Lower	Upper
43	100		
45	16.8	7.8	11.8#
61	12.3	7.8	11.8#
70	11.9	5.6	8.4#

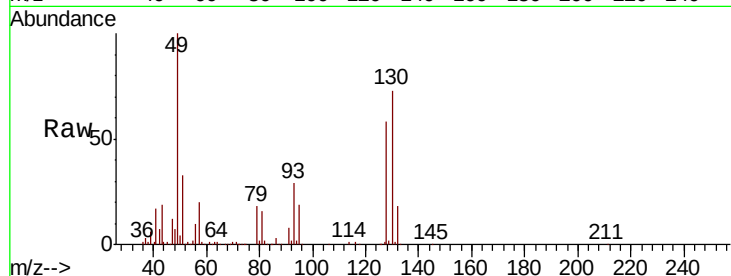




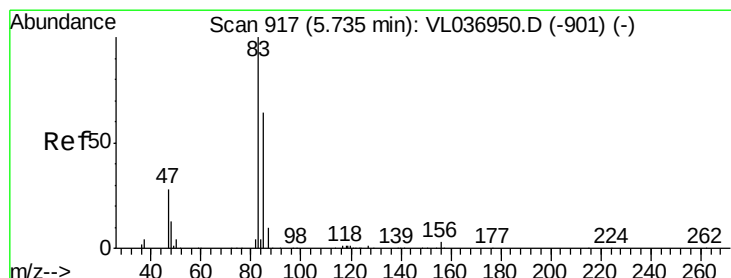
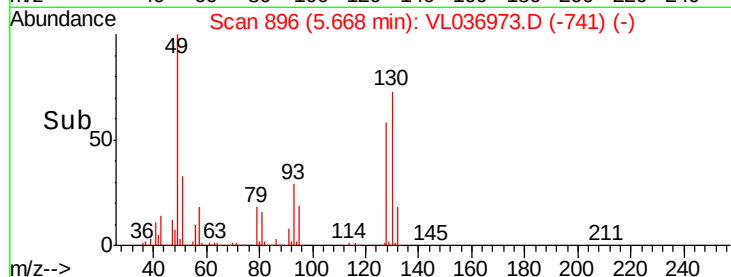
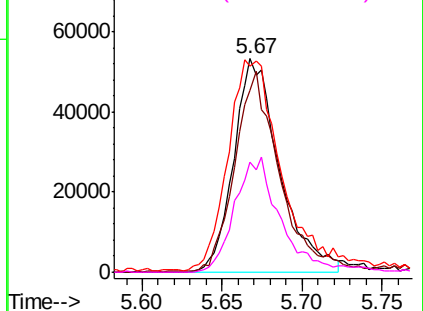
#26
Hexane
Concen: 0.658 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.00 min
Lab File: VL036973.D
Acq: 18 May 2021 17:43

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tot Ion: 57 Resp: 104149
Ion Ratio Lower Upper
57 100
41 93.0 70.5 105.7
43 120.7 165.8 248.8#
56 54.7 42.2 63.4

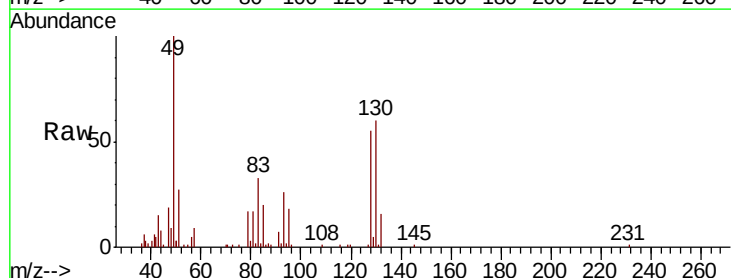


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

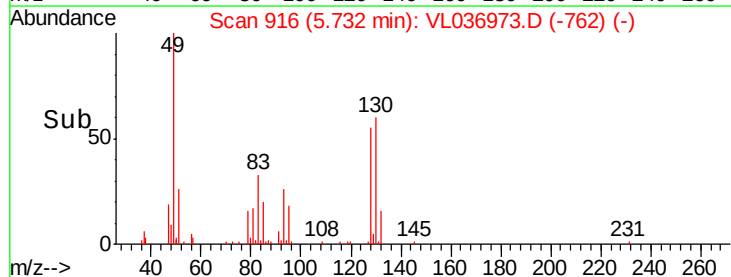
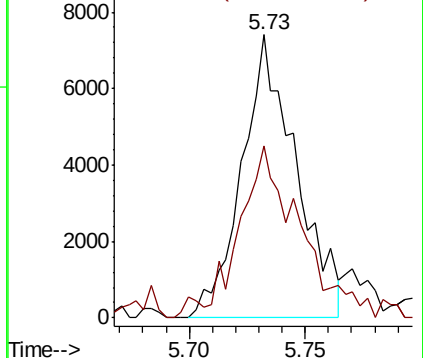


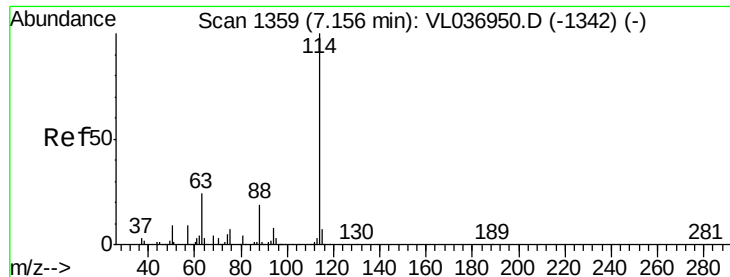
#29
Chloroform
Concen: 0.054 ppbv
RT: 5.73 min Scan# 916
Delta R.T. -0.00 min
Lab File: VL036973.D
Acq: 18 May 2021 17:43

Tgt Ion: 83 Resp: 12009
Ion Ratio Lower Upper
83 100
85 53.3 51.1 76.7



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

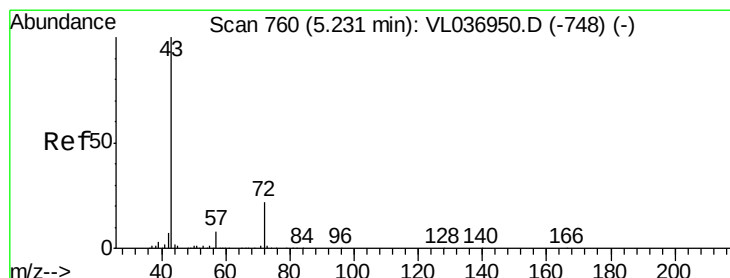
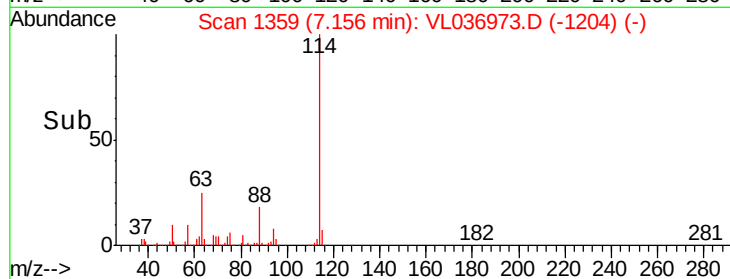
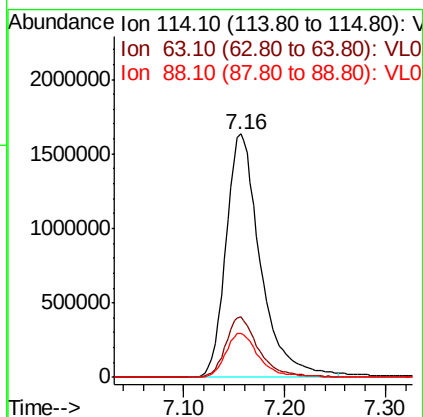
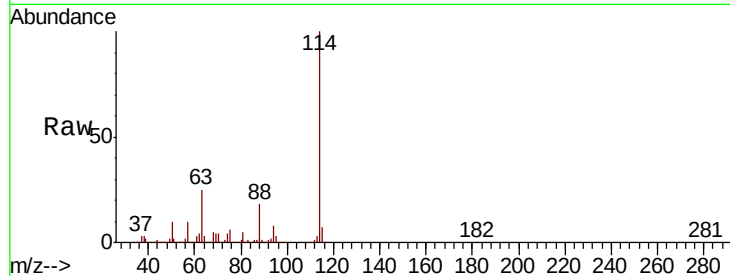




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VL036973.D
 Acq: 18 May 2021 17:43

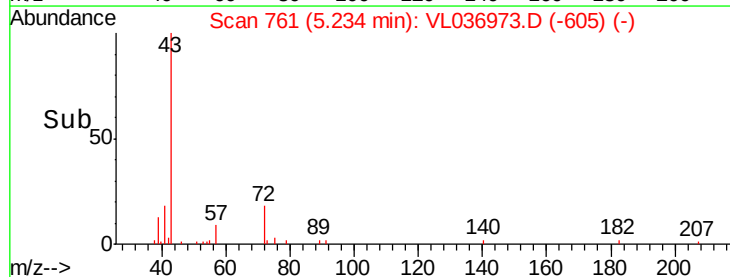
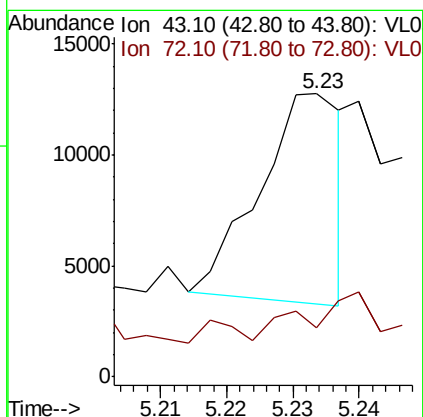
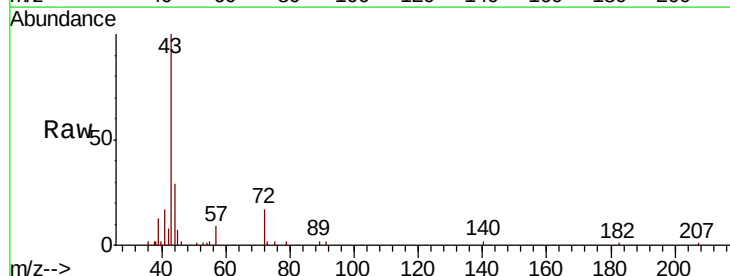
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

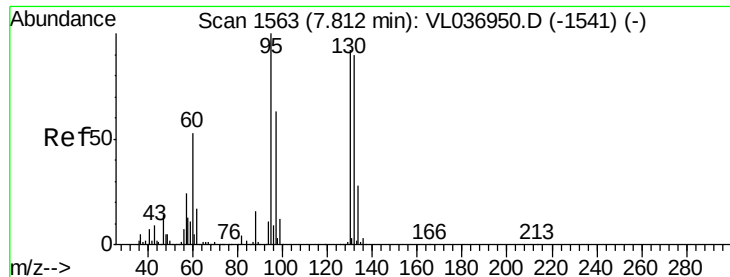
Tot Ion:114 Resp: 3893052
 Ion Ratio Lower Upper
 114 100
 63 24.1 19.6 29.4
 88 18.0 14.6 21.8



#34
 2-Butanone
 Concen: 0.057 ppbv
 RT: 5.23 min Scan# 761
 Delta R.T. 0.00 min
 Lab File: VL036973.D
 Acq: 18 May 2021 17:43

Tgt Ion: 43 Resp: 8062
 Ion Ratio Lower Upper
 43 100
 72 0.0 19.0 28.4#





#38

Trichloroethene

Concen: 0.061 ppbv

RT: 7.81 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL036973.D

Acq: 18 May 2021 17:43

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

Tot Ion:130 Resp: 8689

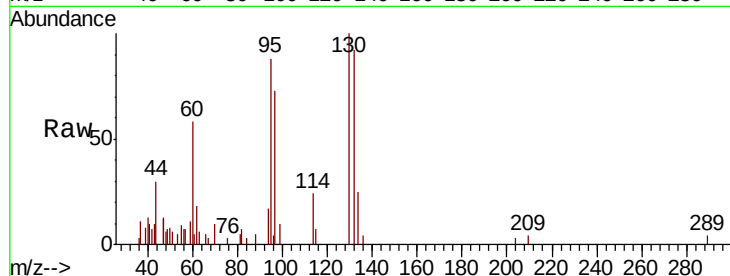
Ion Ratio Lower Upper

130 100

95 79.7 86.9 130.3#

132 92.3 78.4 117.6

97 72.8 55.0 82.6

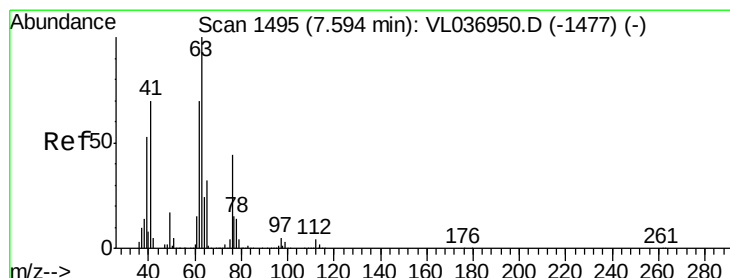
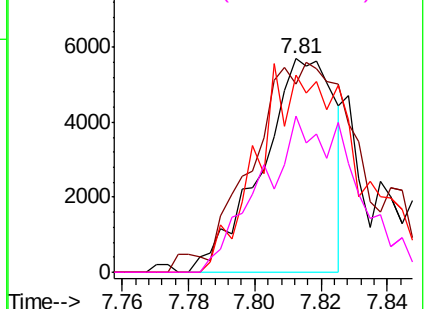
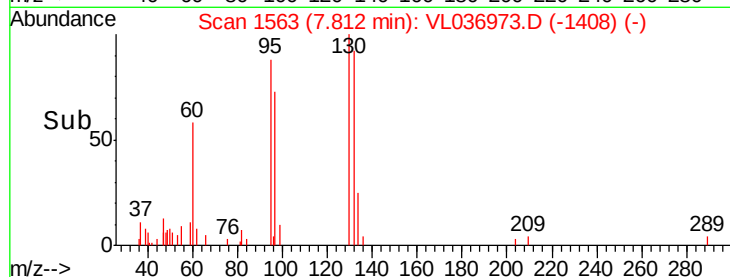


Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.050 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. -0.44 min

Lab File: VL036973.D

Acq: 18 May 2021 17:43

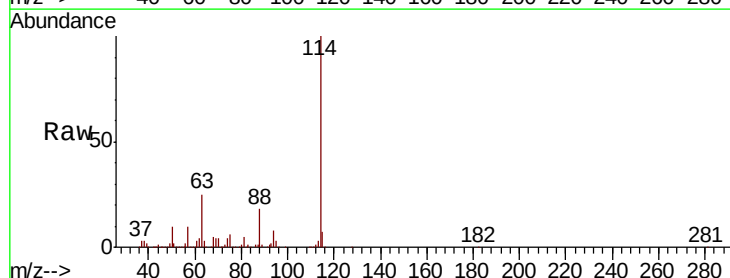
Tgt Ion: 63 Resp: 910665

Ion Ratio Lower Upper

63 100

41 0.0 55.7 83.5#

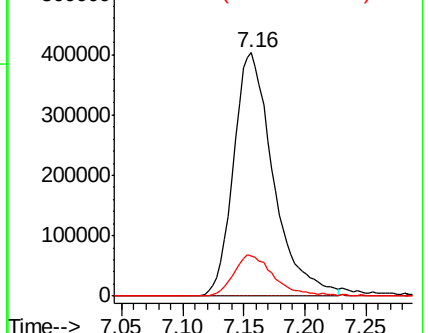
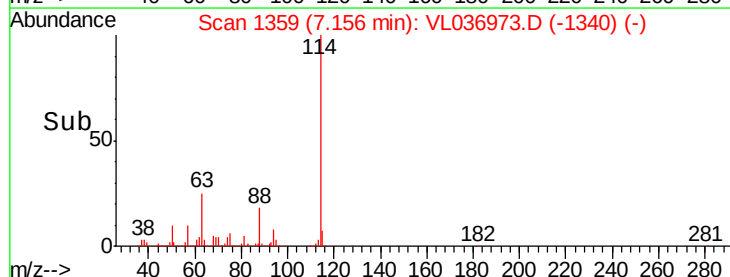
62 16.3 56.2 84.4#

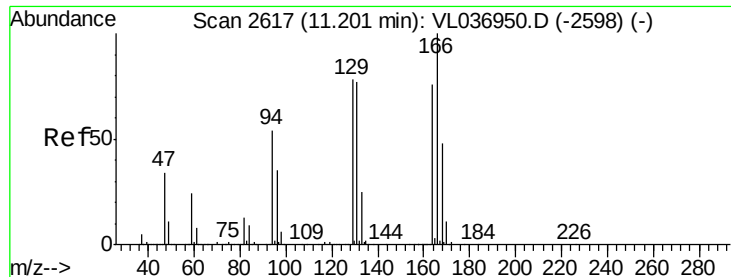


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 0.078 ppbv

RT: 11.21 min Scan# 2619

Delta R.T. 0.01 min

Lab File: VL036973.D

Acq: 18 May 2021 17:43

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

Tot Ion:164 Resp: 10359

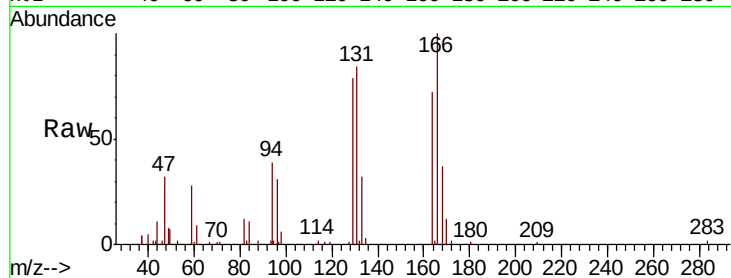
Ion Ratio Lower Upper

164 100

166 124.3 105.5 158.3

129 94.6 81.8 122.8

131 107.7 81.2 121.8

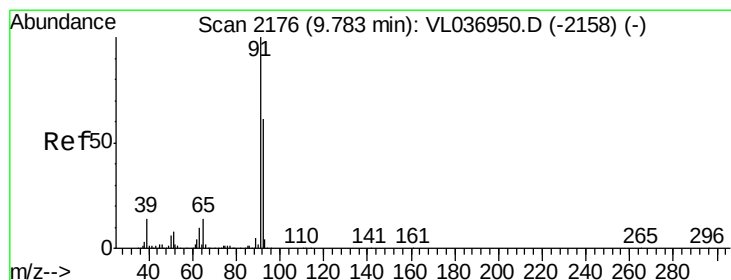
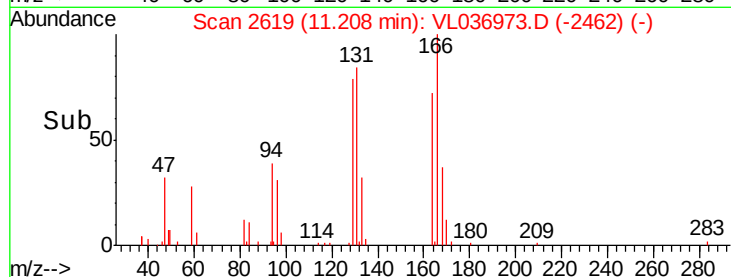
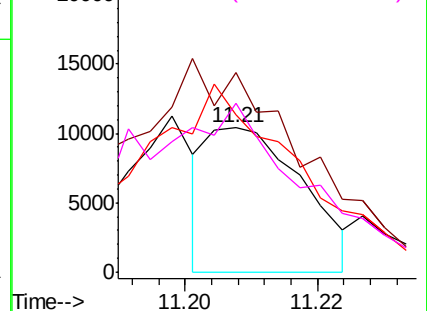


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.032 ppbv

RT: 9.79 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VL036973.D

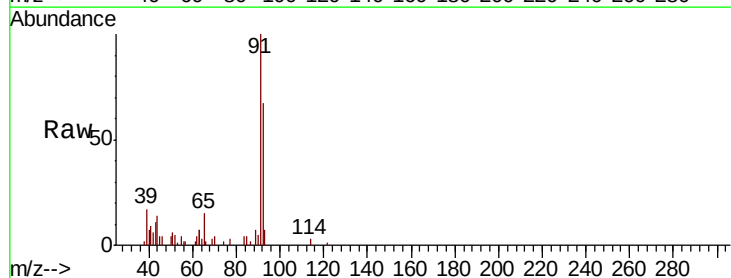
Acq: 18 May 2021 17:43

Tgt Ion: 91 Resp: 12826

Ion Ratio Lower Upper

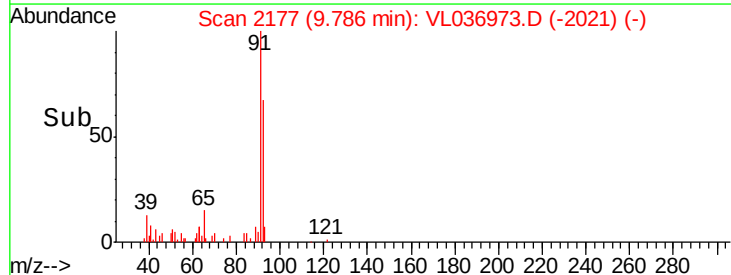
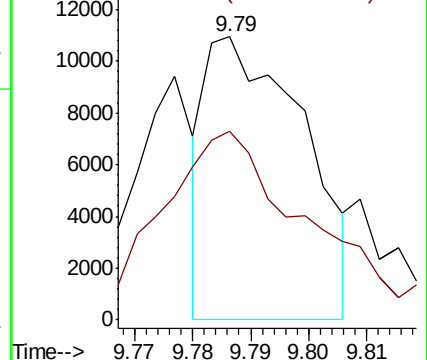
91 100

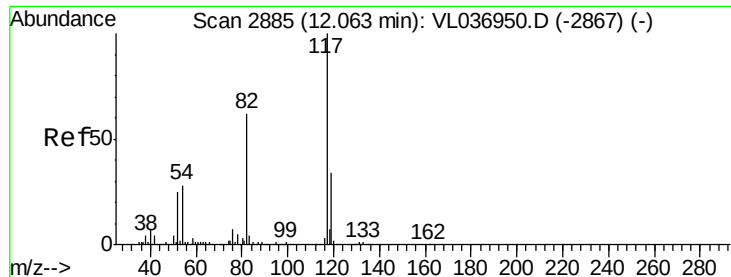
92 114.6 49.5 74.3#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

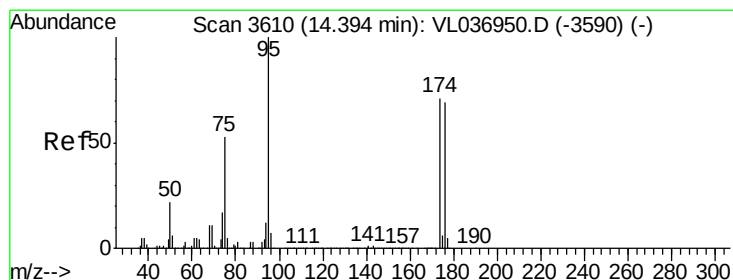
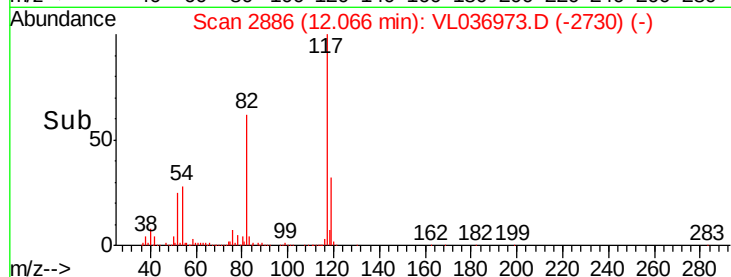
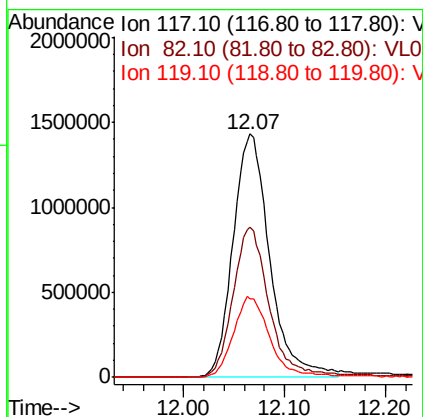
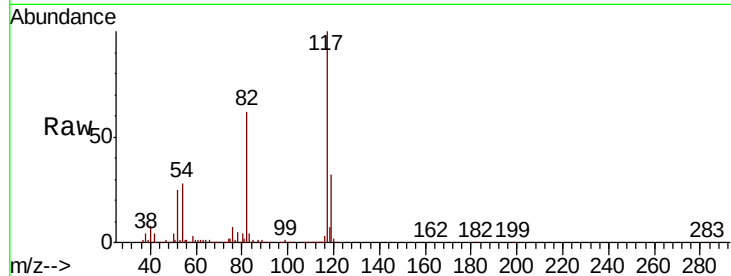




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. 0.00 min
Lab File: VL036973.D
Acq: 18 May 2021 17:43

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tot Ion:117 Resp: 3619512
Ion Ratio Lower Upper
117 100
82 63.4 52.6 79.0
119 33.8 46.6 70.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.086 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. 0.00 min
Lab File: VL036973.D
Acq: 18 May 2021 17:43

Tgt Ion: 95 Resp: 2742468
Ion Ratio Lower Upper
95 100
174 74.1 58.4 87.6
175 5.5 4.4 6.6

