

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081921\
 Data File : VL037510.D
 Acq On : 19 Aug 2021 22:30
 Operator : SY/AP
 Sample : M3480-06DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 20 00:23:58 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1339552	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	4157596	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.09	117	3466844	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	2557255	10.38	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

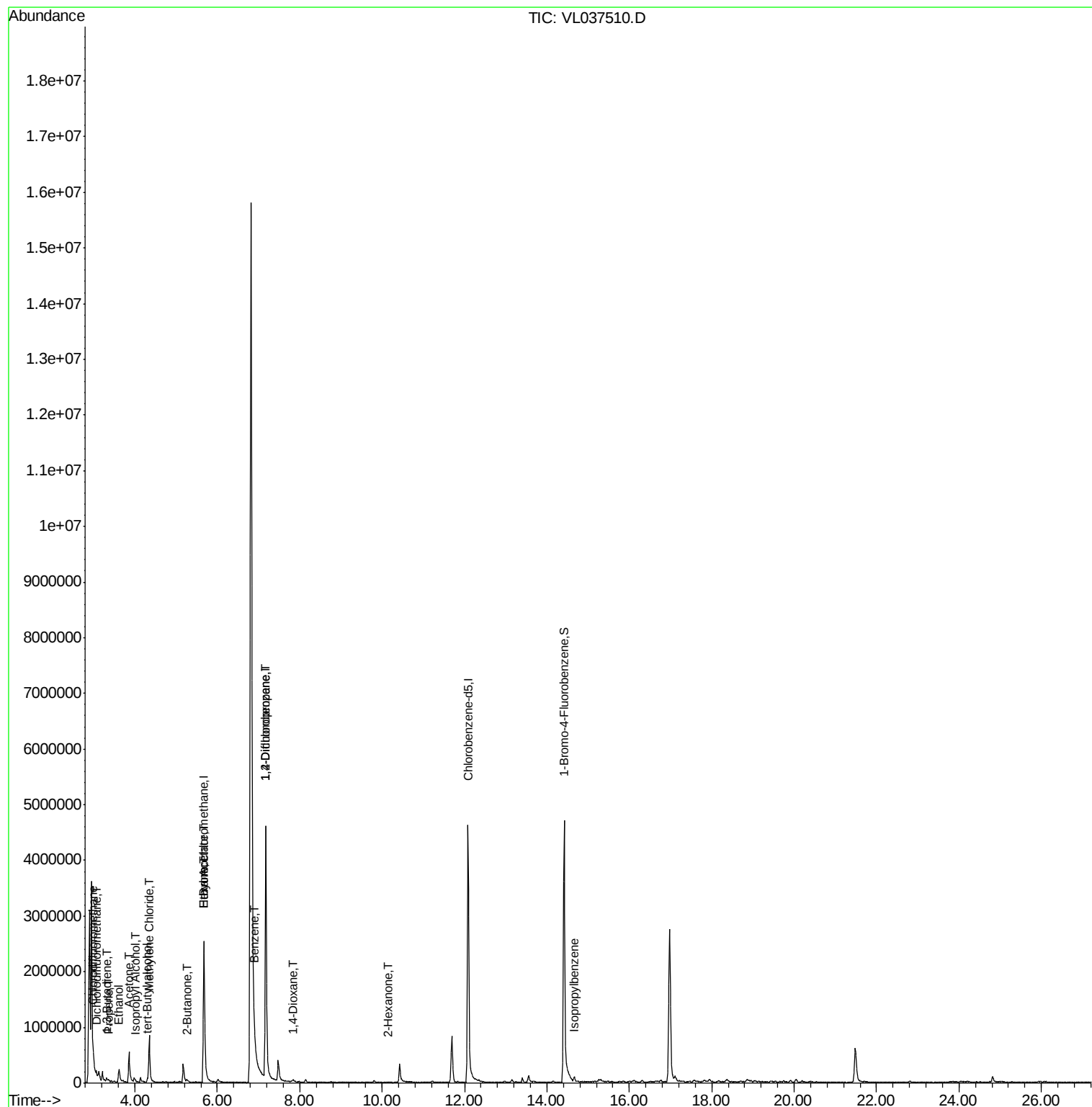
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	6519	0.030 ppbv	94
3) Chlorodifluoromethane	2.99	51	183787	0.716 ppbv #	72
9) Propene	3.36	41	12570	0.137 ppbv	88
13) Ethanol	3.61	45	185384	20.758 ppbv #	46
15) Acetone	3.86	43	701873	5.148 ppbv	94
16) 1,3-Butadiene	3.32	39	20179	0.231 ppbv #	18
17) tert-Butyl alcohol	4.30	59	16504	0.133 ppbv #	72
19) Isopropyl Alcohol	4.01	45	6162	0.079 ppbv #	95
20) Methylene Chloride	4.35	84	330539	4.843 ppbv	98
25) Ethyl Acetate	5.69	43	184374	0.533 ppbv #	80
26) Hexane	5.69	57	122805	0.726 ppbv #	44
34) 2-Butanone	5.25	43	24578	0.145 ppbv #	54
36) Benzene	6.90	78	49623	0.142 ppbv	98
39) 1,2-Dichloropropane	7.18	63	939327	6.994 ppbv #	28
40) 1,4-Dioxane	7.84	88	1041	0.032 ppbv #	100
51) 2-Hexanone	10.14	43	4381	0.043 ppbv #	12
62) Isopropylbenzene	14.66	105	41293	0.075 ppbv #	75

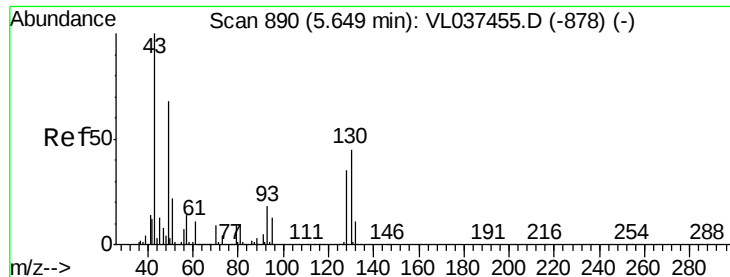
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 min Scan# 897

Delta R.T. 0.02 min

Lab File: VL037510.D

Acq: 19 Aug 2021 22:30

Instrument :

MSVOA_L

ClientSampled :

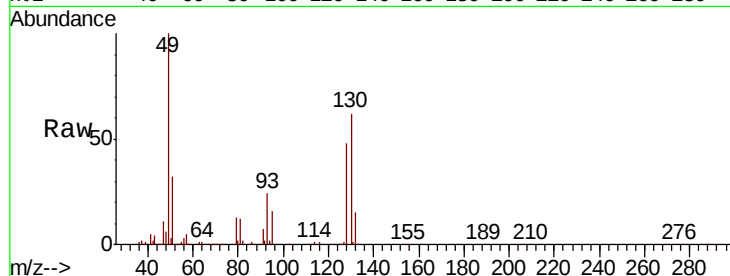
Tot Ion: 49 Resp: 1339552

Ion Ratio Lower Upper

49 100

128 54.8 27.5 82.4

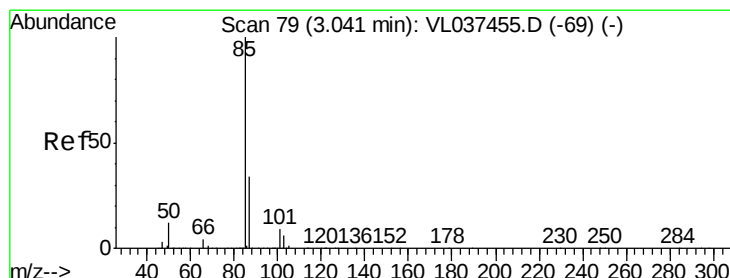
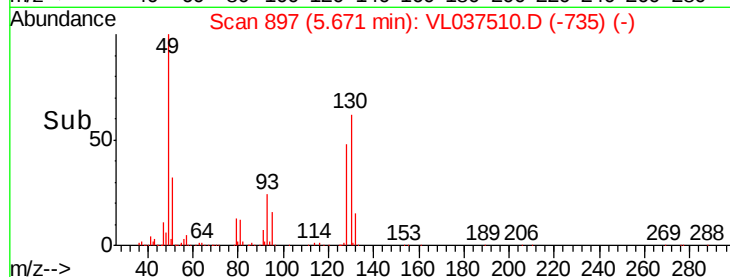
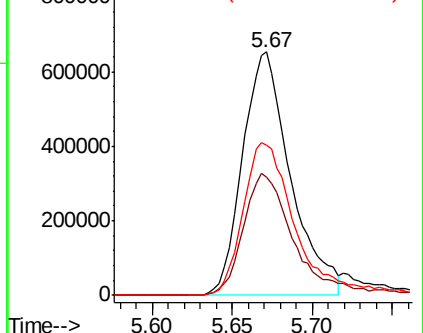
130 70.6 34.0 101.8



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: 0.030 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL037510.D

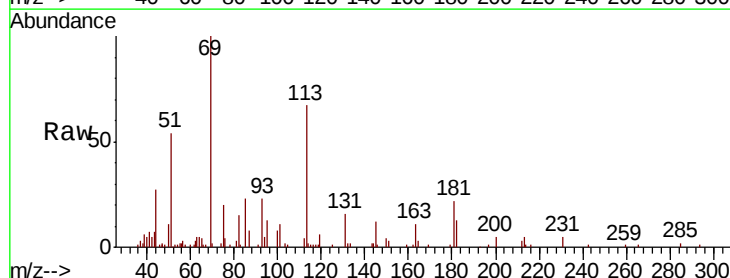
Acq: 19 Aug 2021 22:30

Tgt Ion: 85 Resp: 6519

Ion Ratio Lower Upper

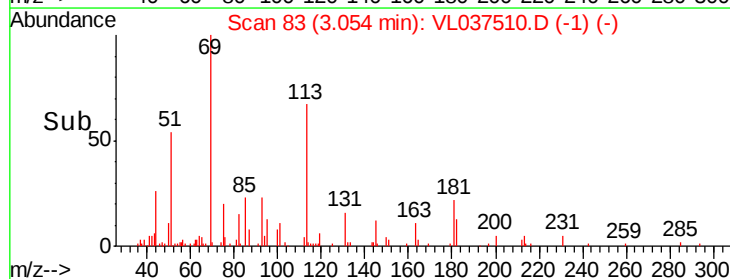
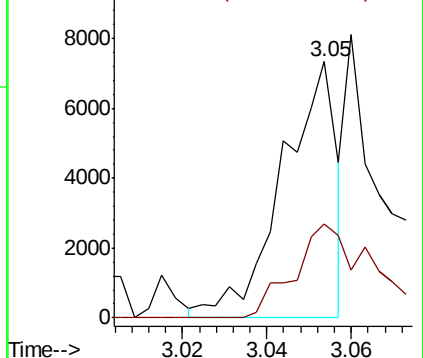
85 100

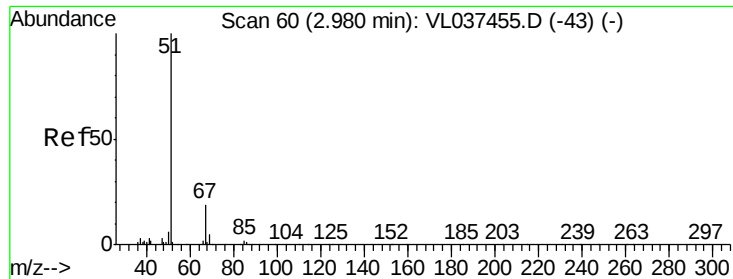
87 37.8 27.6 41.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

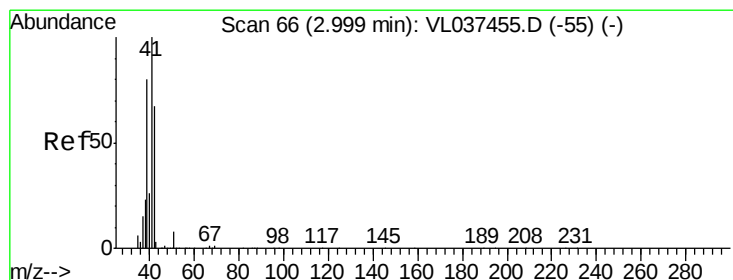
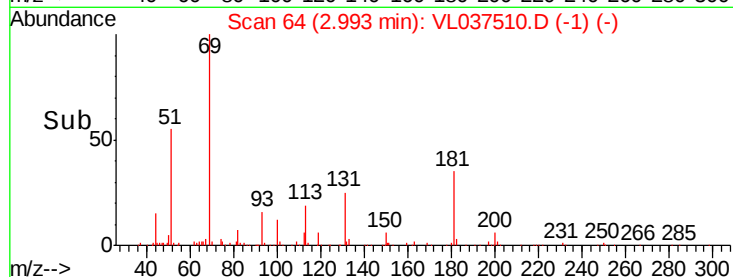
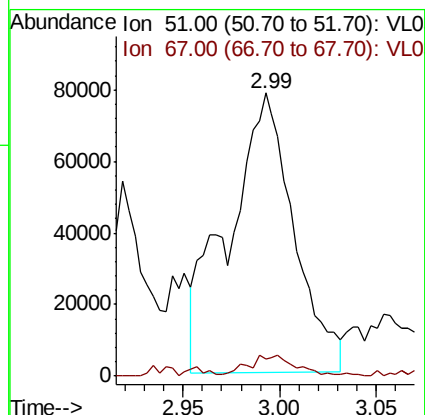
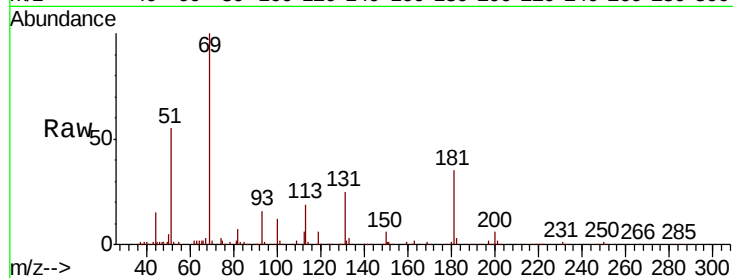




#3
Chlorodifluoromethane
Concen: 0.716 ppbv
RT: 2.99 min Scan# 64
Delta R.T. 0.01 min
Lab File: VL037510.D
Acq: 19 Aug 2021 22:30

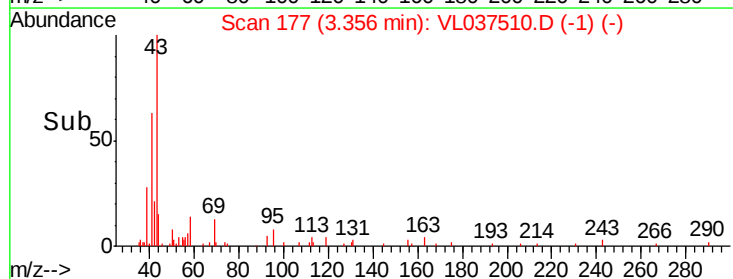
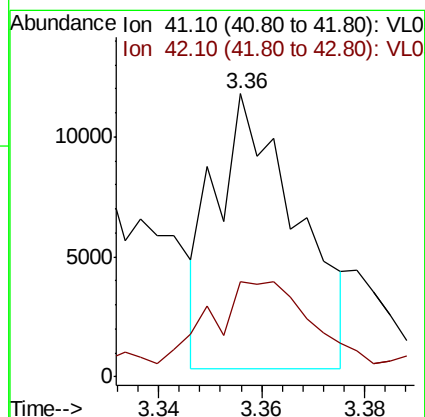
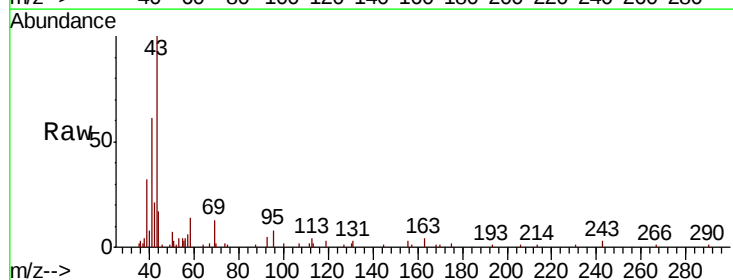
Instrument :
MSVOA_L
ClientSampleId :

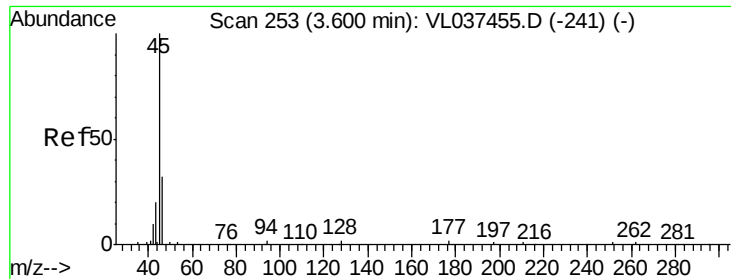
Tot Ion: 51 Resp: 183787
Ion Ratio Lower Upper
51 100
67 5.3 14.2 21.2#



#9
Propene
Concen: 0.137 ppbv
RT: 3.36 min Scan# 177
Delta R.T. 0.36 min
Lab File: VL037510.D
Acq: 19 Aug 2021 22:30

Tgt Ion: 41 Resp: 12570
Ion Ratio Lower Upper
41 100
42 57.2 53.7 80.5

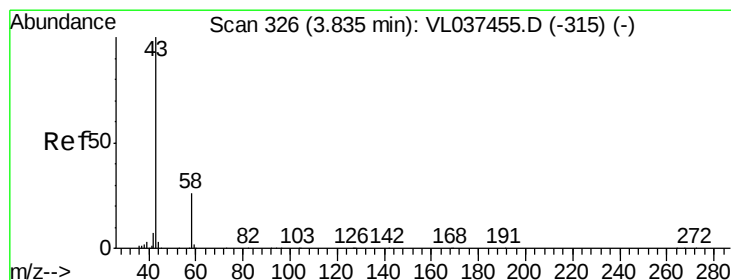
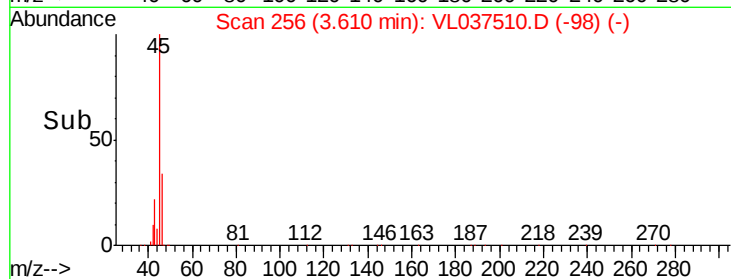
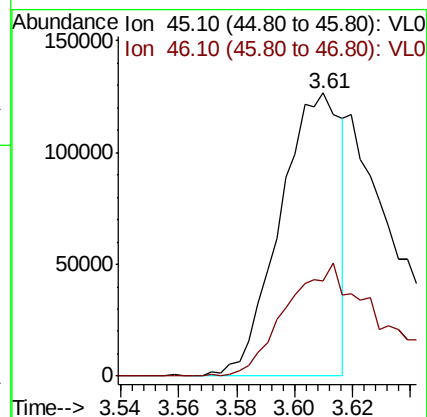
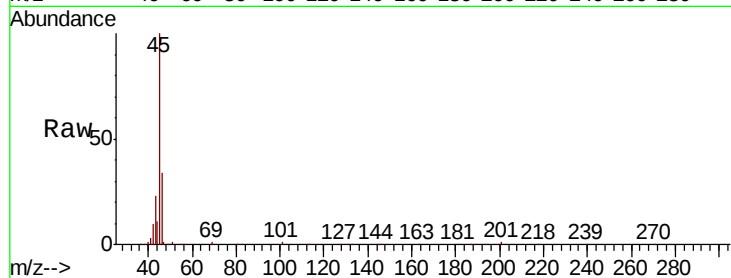




#13
Ethanol
Concen: 20.758 ppbv
RT: 3.61 min Scan# 256
Delta R.T. 0.01 min
Lab File: VL037510.D
Acq: 19 Aug 2021 22:30

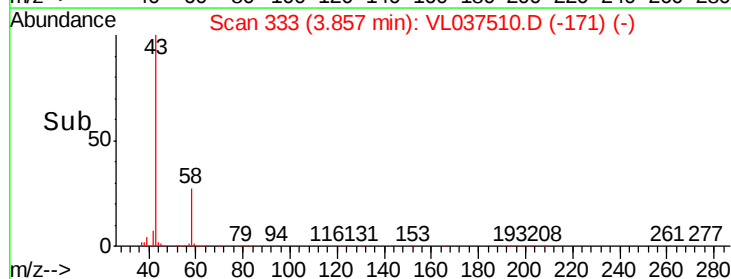
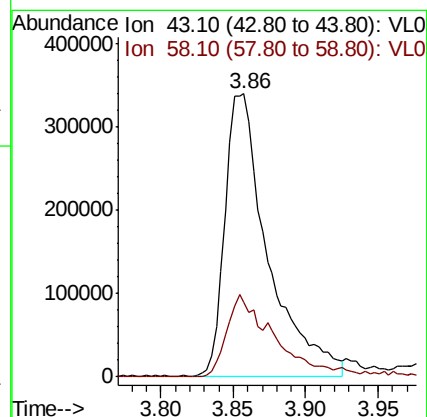
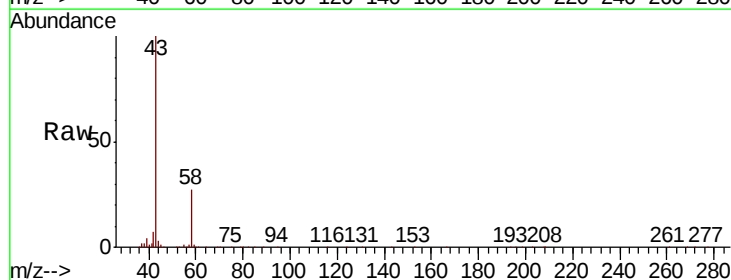
Instrument :
MSVOA_L
ClientSampleId :

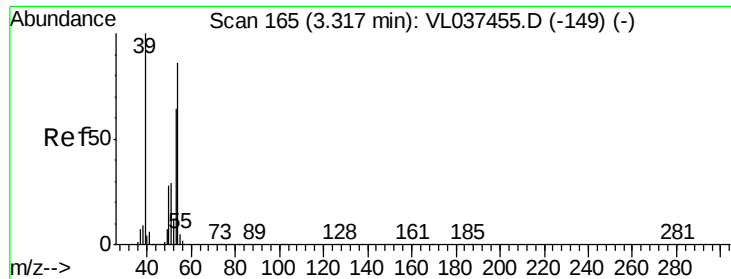
Tot Ion: 45 Resp: 185384
Ion Ratio Lower Upper
45 100
46 67.0 14.1 56.5#



#15
Acetone
Concen: 5.148 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.02 min
Lab File: VL037510.D
Acq: 19 Aug 2021 22:30

Tgt Ion: 43 Resp: 701873
Ion Ratio Lower Upper
43 100
58 34.0 24.8 37.2

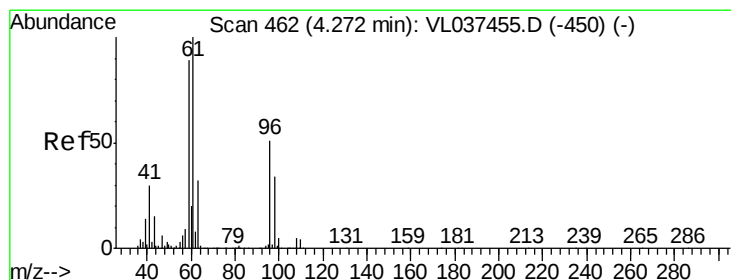
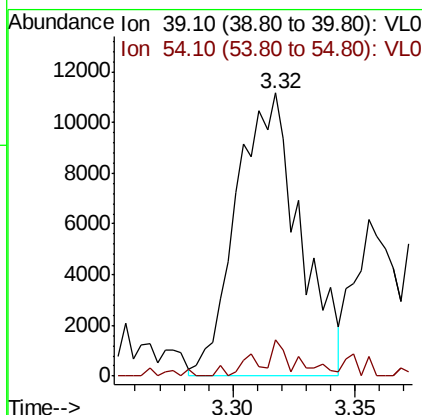
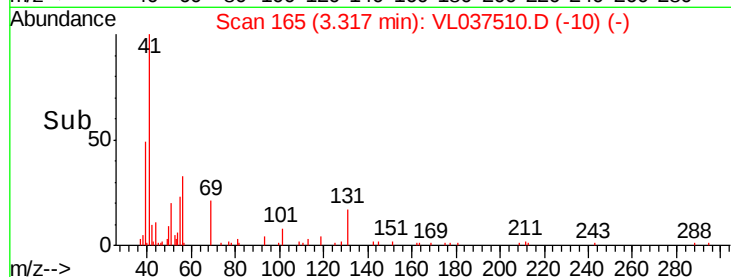
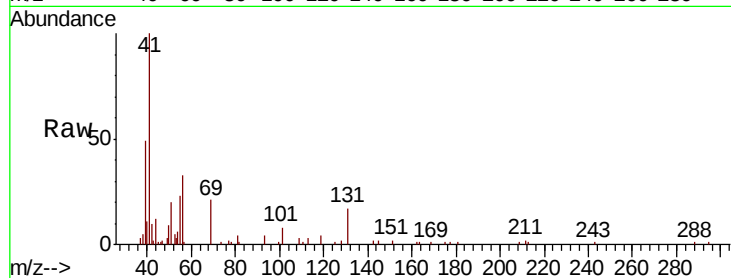




#16
 1,3-Butadiene
 Concen: 0.231 ppbv
 RT: 3.32 min Scan# 165
 Delta R.T. -0.00 min
 Lab File: VL037510.D
 Acq: 19 Aug 2021 22:30

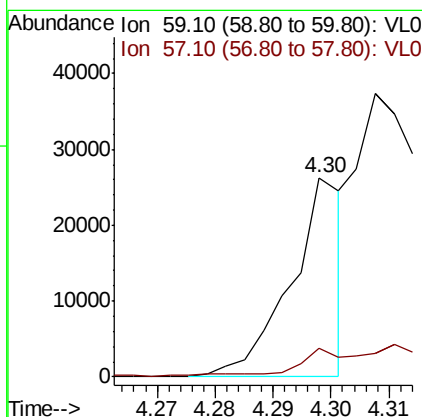
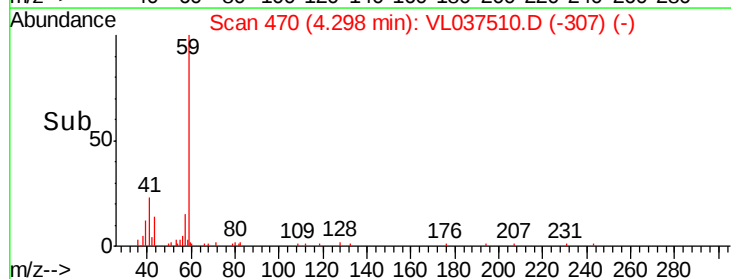
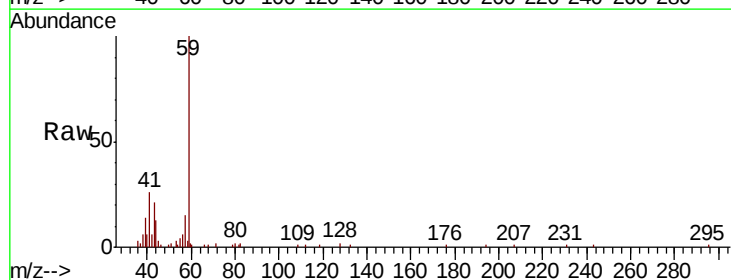
Instrument :
 MSVOA_L
 ClientSampleId :

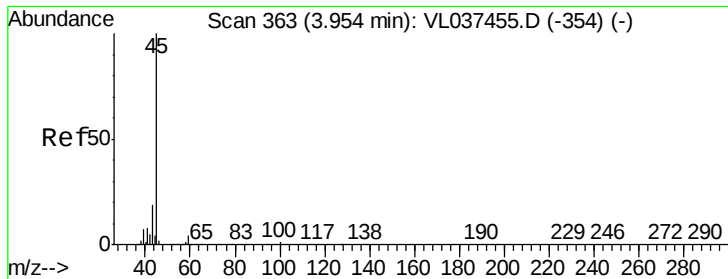
Tot Ion: 39 Resp: 20179
 Ion Ratio Lower Upper
 39 100
 54 7.2 63.7 95.5#



#17
 tert-Butyl alcohol
 Concen: 0.133 ppbv
 RT: 4.30 min Scan# 470
 Delta R.T. 0.03 min
 Lab File: VL037510.D
 Acq: 19 Aug 2021 22:30

Tgt Ion: 59 Resp: 16504
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.3 12.5#





#19

Isopropyl Alcohol

Concen: 0.079 ppbv

RT: 4.01 min Scan# 381

Delta R.T. 0.06 min

Lab File: VL037510.D

Acq: 19 Aug 2021 22:30

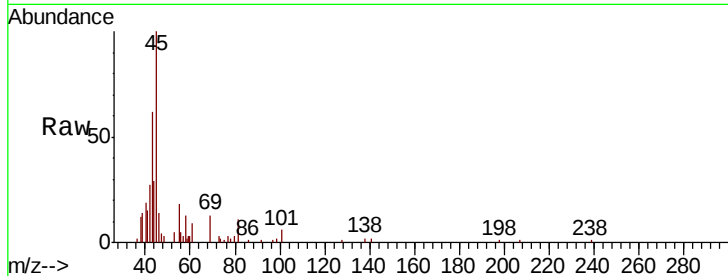
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 45 Resp: 6162

Ion Ratio Lower Upper

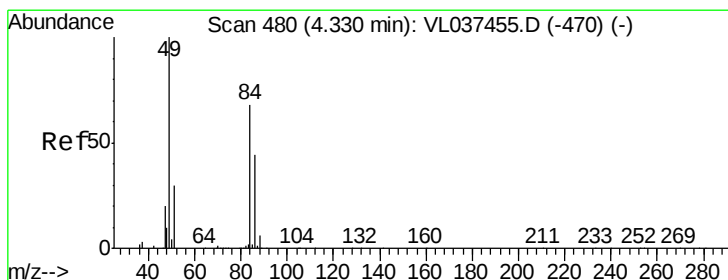
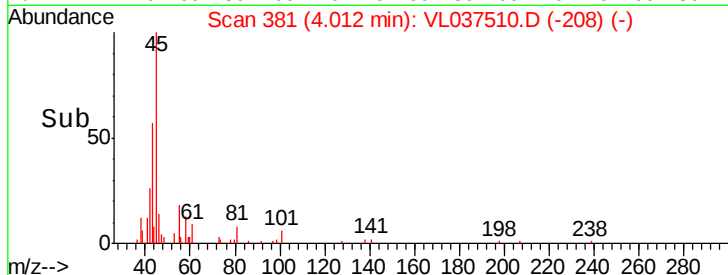
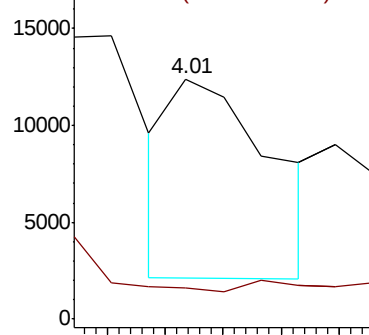
45 100

58 0.0 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 4.843 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.02 min

Lab File: VL037510.D

Acq: 19 Aug 2021 22:30

Tgt Ion: 84 Resp: 330539

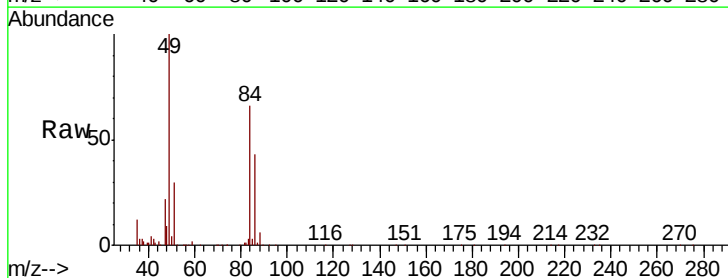
Ion Ratio Lower Upper

84 100

49 151.8 118.2 177.2

51 45.7 36.6 55.0

86 64.5 51.8 77.6

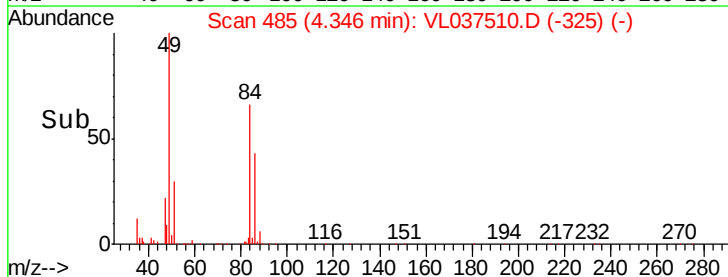
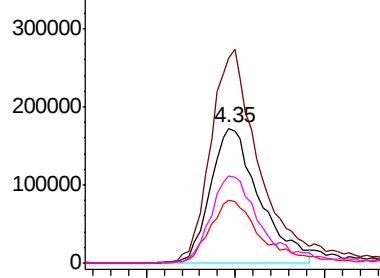


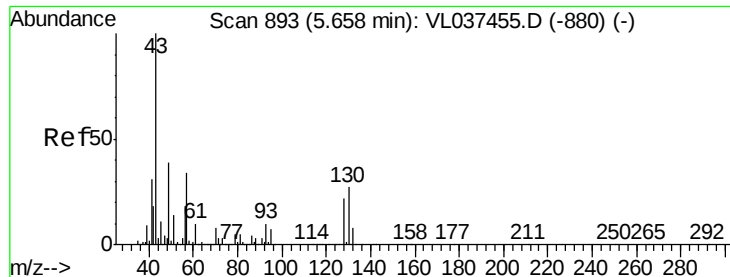
Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 0.533 ppbv

RT: 5.69 min Scan# 902

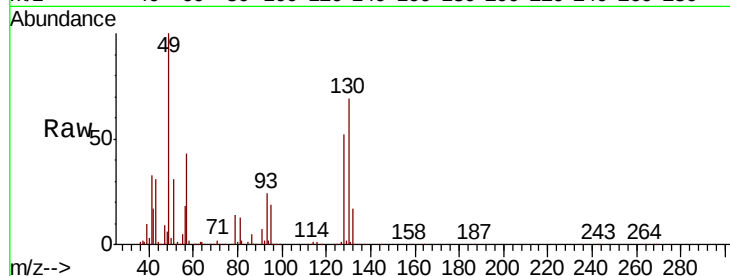
Delta R.T. 0.03 min

Lab File: VL037510.D

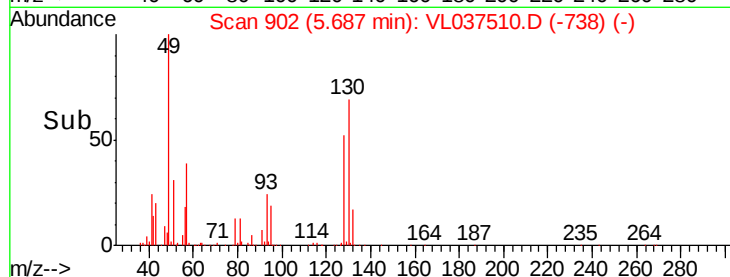
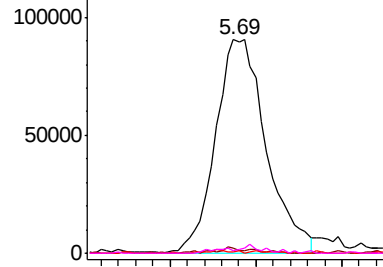
Acq: 19 Aug 2021 22:30

Instrument :
MSVOA_L
ClientSampleId :

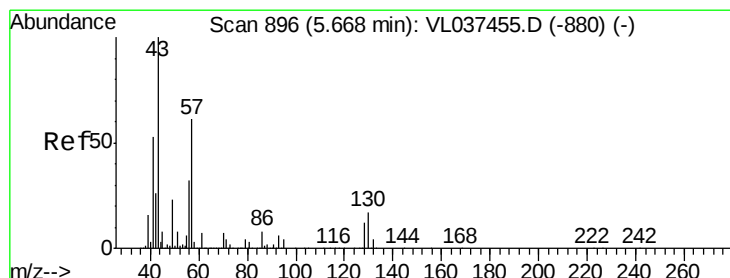
Tot Ion:	43	Resp:	184374
Ion	Ratio	Lower	Upper
43	100		
45	2.2	8.0	12.0#
61	1.4	8.0	12.0#
70	2.9	5.6	8.4#



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



Time-->



#26

Hexane

Concen: 0.726 ppbv

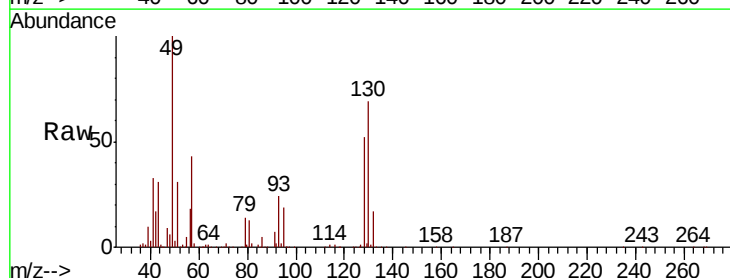
RT: 5.69 min Scan# 902

Delta R.T. 0.02 min

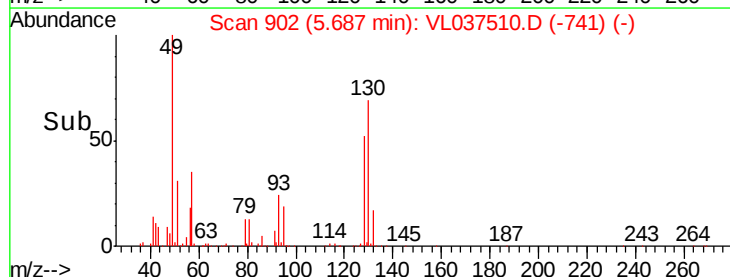
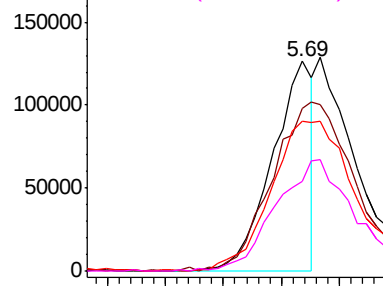
Lab File: VL037510.D

Acq: 19 Aug 2021 22:30

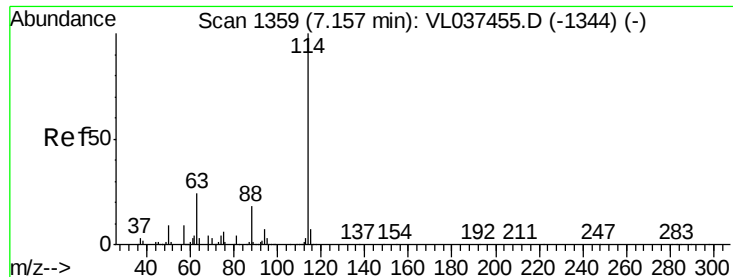
Tgt Ion:	57	Resp:	122805
Ion	Ratio	Lower	Upper
57	100		
41	178.0	72.3	108.5#
43	158.4	172.3	258.5#
56	0.0	42.8	64.2#



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



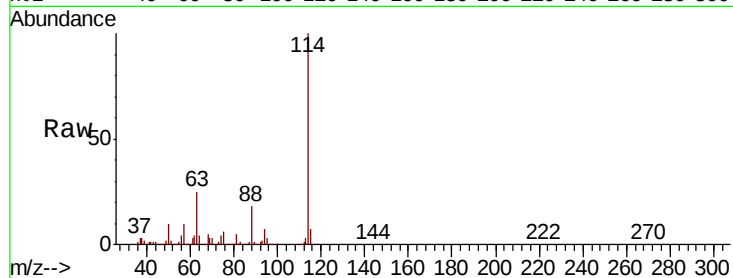
Time-->



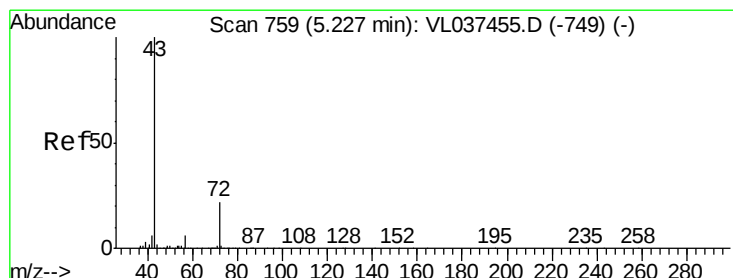
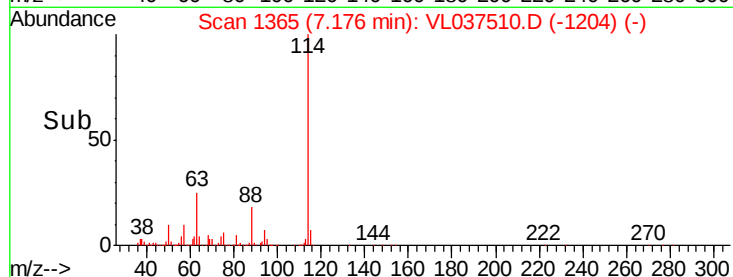
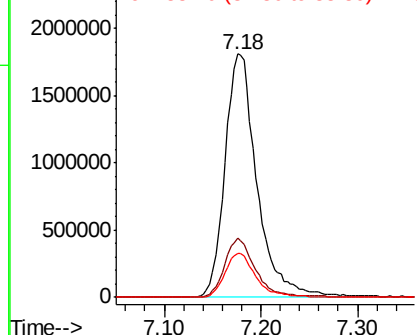
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. 0.02 min
 Lab File: VL037510.D
 Acq: 19 Aug 2021 22:30

Instrument :
 MSVOA_L
 ClientSampleId :

Tot Ion:114 Resp: 4157596
 Ion Ratio Lower Upper
 114 100
 63 23.7 19.3 28.9
 88 17.9 14.2 21.4

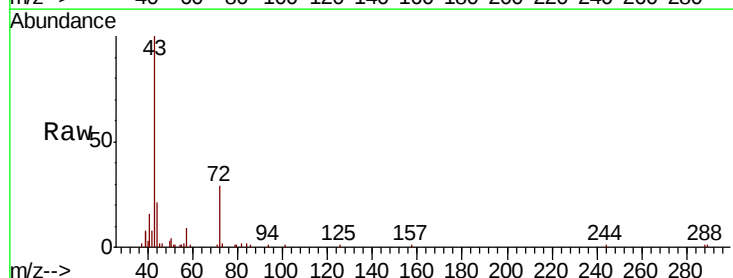


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

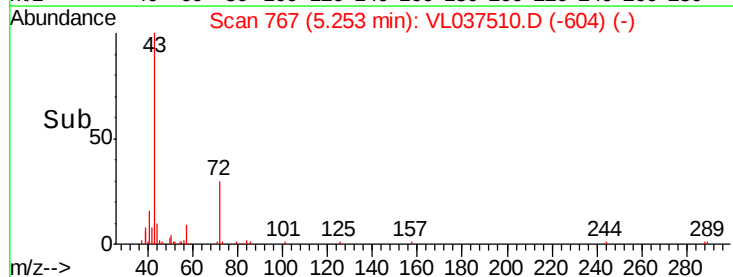
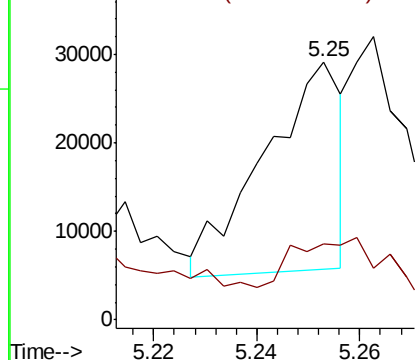


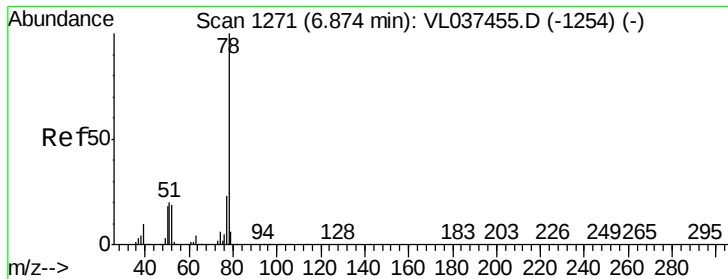
#34
 2-Butanone
 Concen: 0.145 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.03 min
 Lab File: VL037510.D
 Acq: 19 Aug 2021 22:30

Tgt Ion: 43 Resp: 24578
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.4 26.0#



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

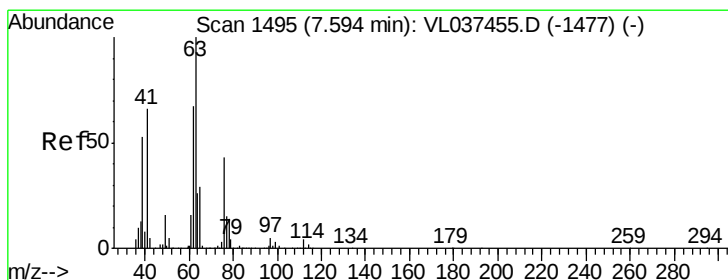
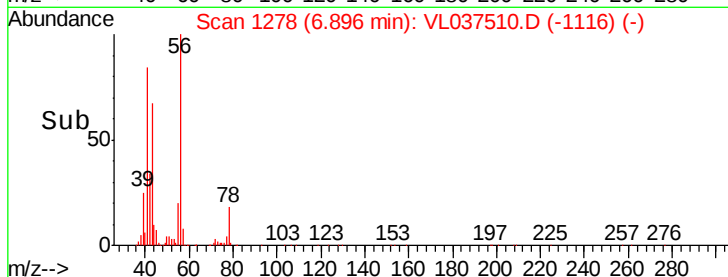
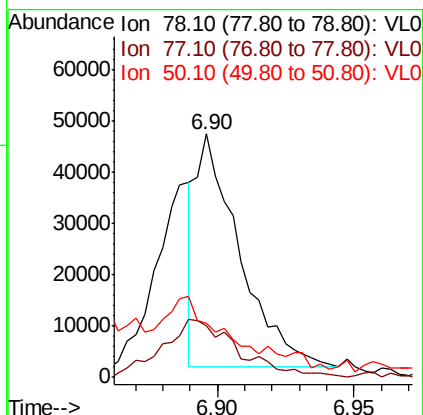
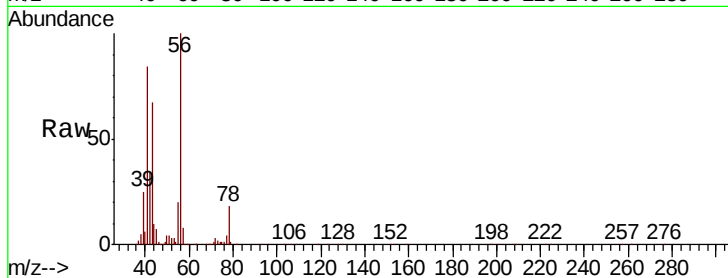




#36
Benzene
Concen: 0.142 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. 0.02 min
Lab File: VL037510.D
Acq: 19 Aug 2021 22:30

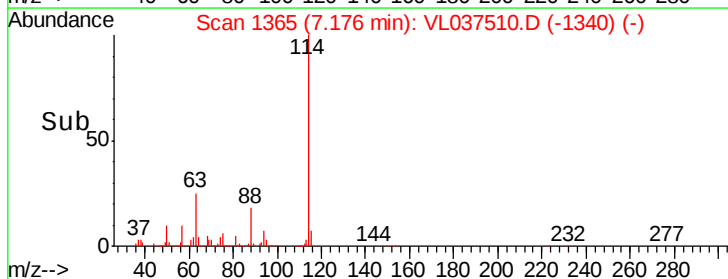
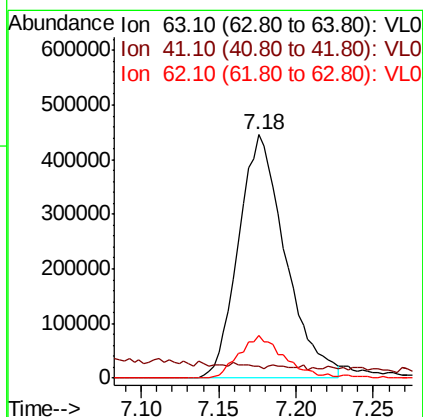
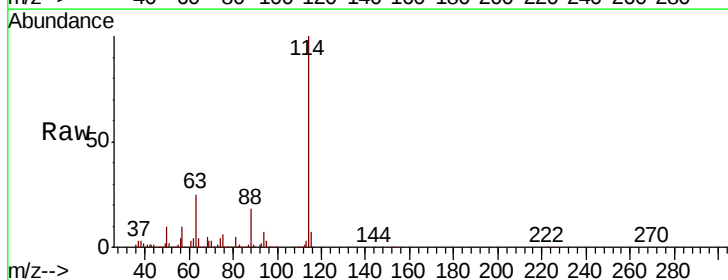
Instrument :
MSVOA_L
ClientSampleId :

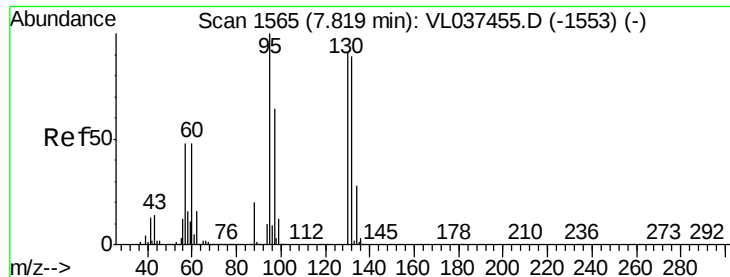
Tot Ion: 78 Resp: 49623
Ion Ratio Lower Upper
78 100
77 21.5 18.2 27.4
50 18.8 14.6 21.8



#39
1,2-Dichloropropane
Concen: 6.994 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.42 min
Lab File: VL037510.D
Acq: 19 Aug 2021 22:30

Tgt Ion: 63 Resp: 939327
Ion Ratio Lower Upper
63 100
41 1.3 52.4 78.6#
62 17.2 53.6 80.4#

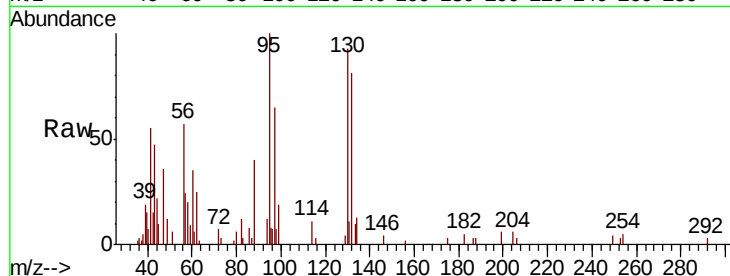




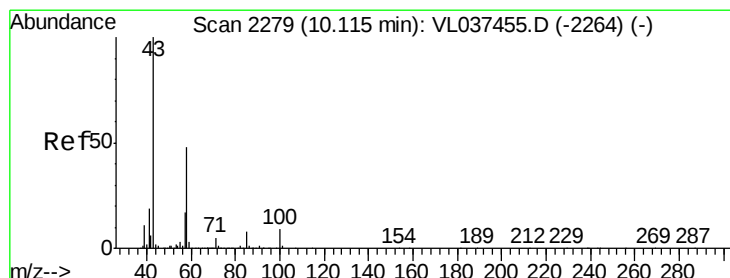
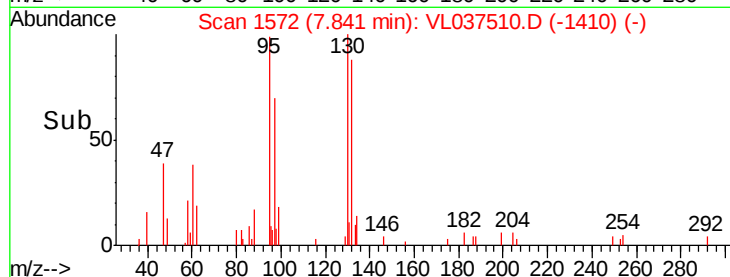
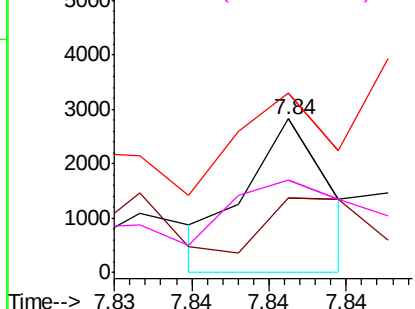
#40
1,4-Dioxane
Concen: 0.032 ppbv
RT: 7.84 min Scan# 1572
Delta R.T. 0.02 min
Lab File: VL037510.D
Acq: 19 Aug 2021 22:30

Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 88 Resp: 1041
Ion Ratio Lower Upper
88 100
58 0.0 0.0 0.0
43 0.0 0.0 0.0
57 0.0 0.0 0.0

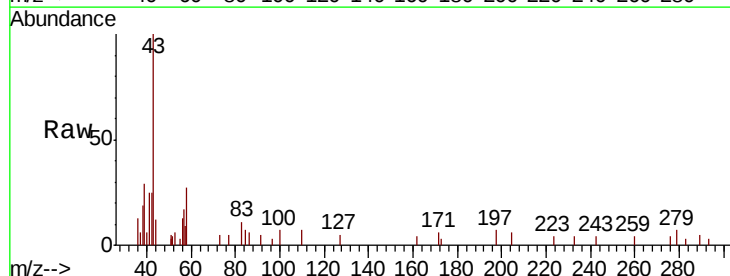


Abundance Ion 88.10 (87.80 to 88.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

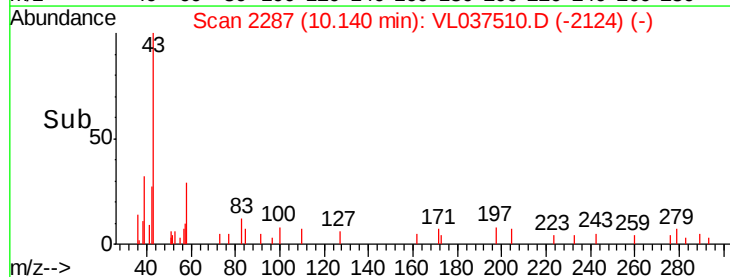
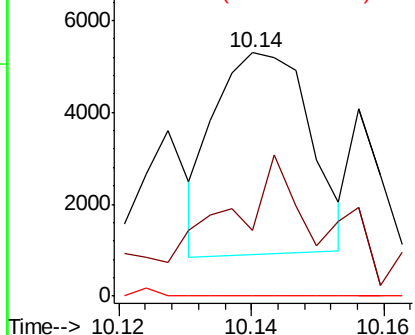


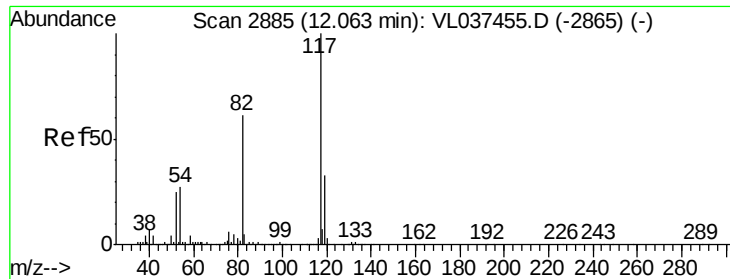
#51
2-Hexanone
Concen: 0.043 ppbv
RT: 10.14 min Scan# 2287
Delta R.T. 0.03 min
Lab File: VL037510.D
Acq: 19 Aug 2021 22:30

Tgt Ion: 43 Resp: 4381
Ion Ratio Lower Upper
43 100
58 113.2 41.0 61.6#
98 0.0 0.3 0.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0

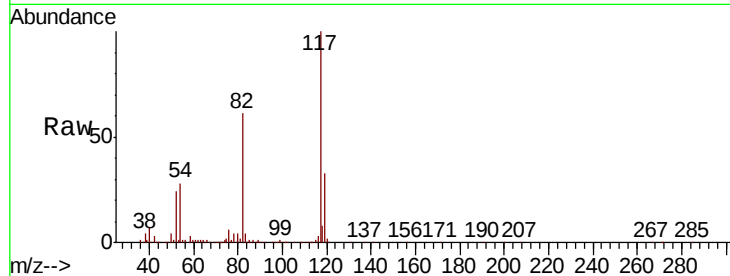




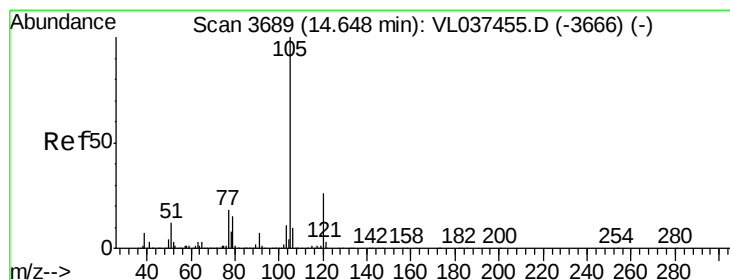
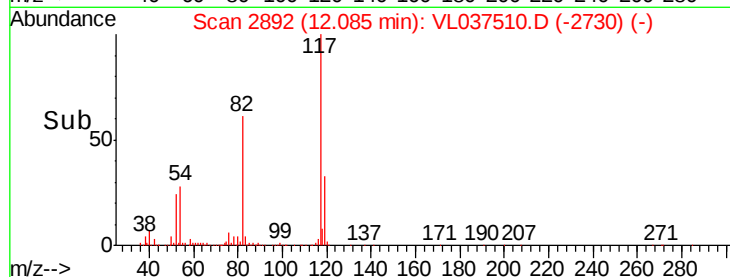
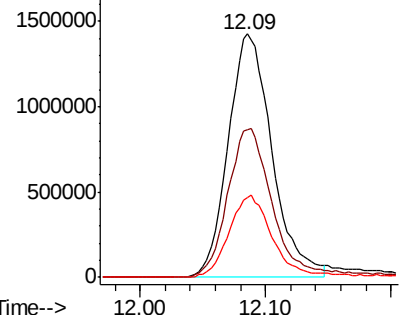
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min Scan# 2892
Delta R.T. 0.02 min
Lab File: VL037510.D
Acq: 19 Aug 2021 22:30

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:117 Resp: 3466844
Ion Ratio Lower Upper
117 100
82 65.0 52.9 79.3
119 34.9 24.8 37.2

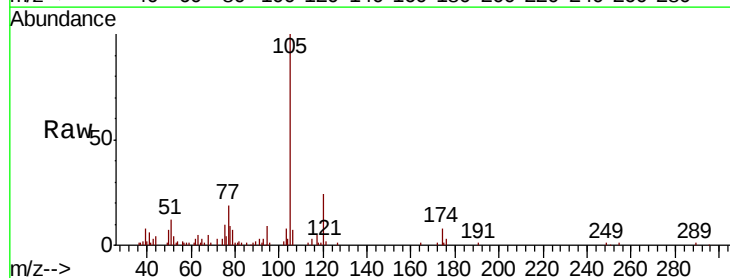


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

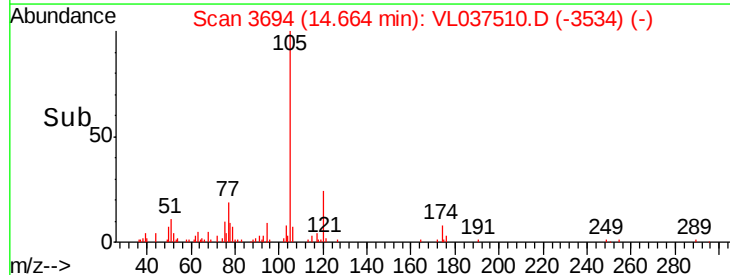
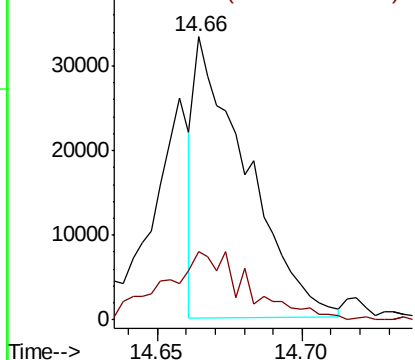


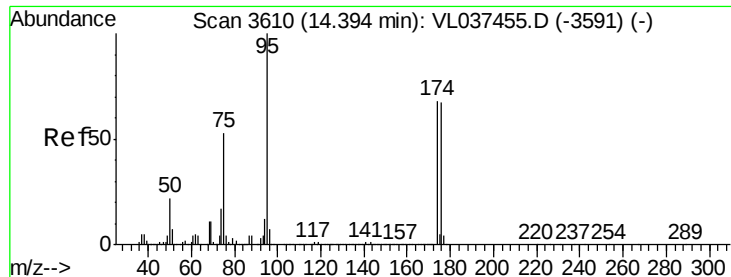
#62
Isopropylbenzene
Concen: 0.075 ppbv
RT: 14.66 min Scan# 3694
Delta R.T. 0.02 min
Lab File: VL037510.D
Acq: 19 Aug 2021 22:30

Tgt Ion:105 Resp: 41293
Ion Ratio Lower Upper
105 100
120 39.8 21.5 32.3#



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.383 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. 0.02 min

Lab File: VL037510.D

Acq: 19 Aug 2021 22:30

Instrument :

MSVOA_L

ClientSampleId :

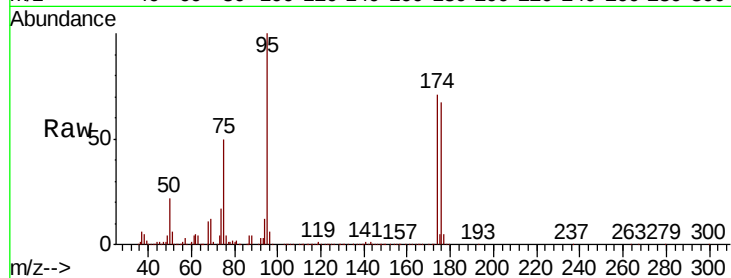
Tot Ion: 95 Resp: 2557255

Ion Ratio Lower Upper

95 100

174 75.2 59.6 89.4

175 5.7 4.6 7.0



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

