

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090921\
 Data File : VL037600.D
 Acq On : 9 Sep 2021 16:02
 Operator : SY/AP
 Sample : M3663-07DL2DUP 80X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 10 01:33:18 2021
 Quant Method : Z:\VOASRV\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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1414543	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	4260815	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	3798438	10.00	ppbv	0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2585851	9.58	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

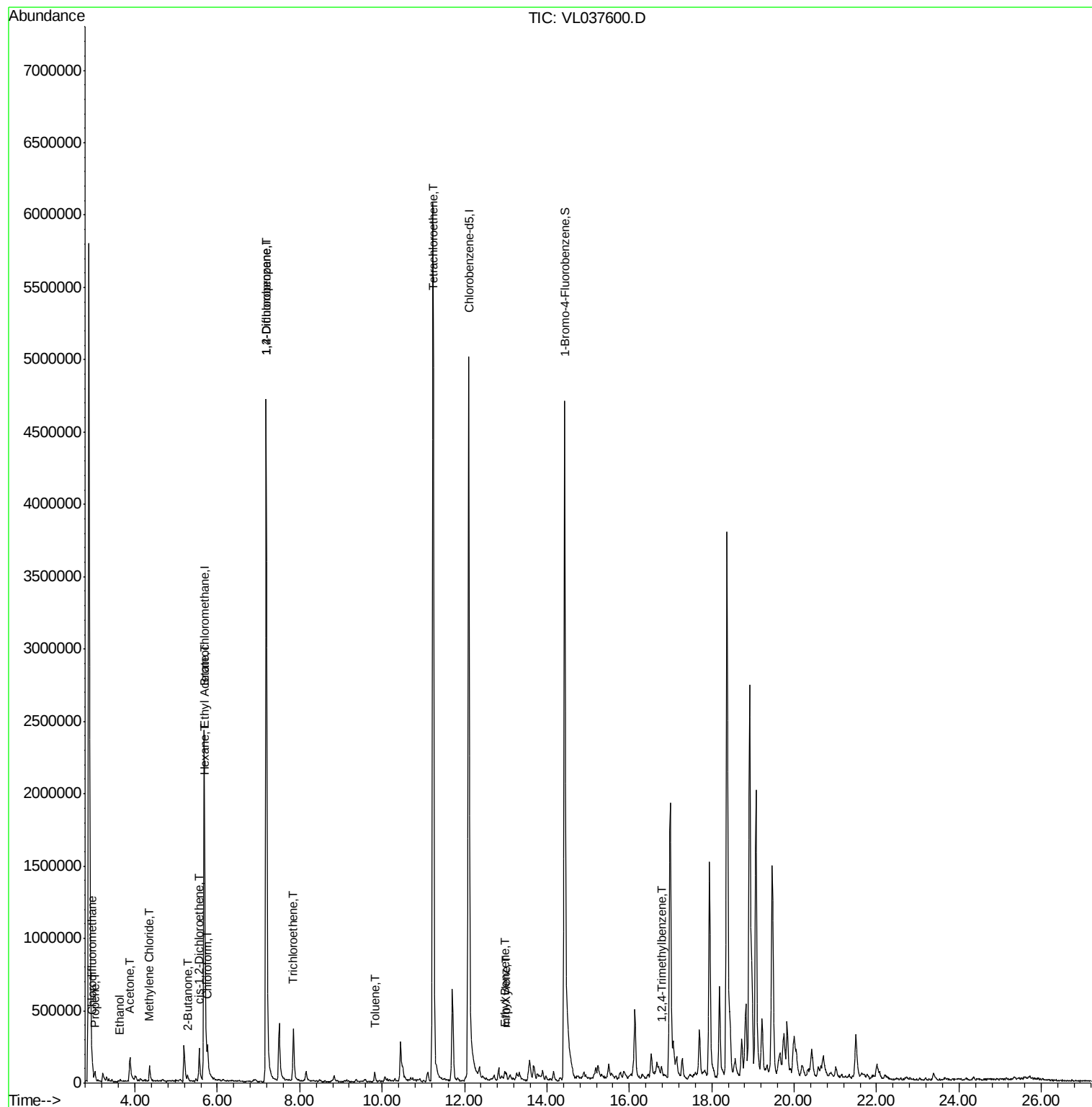
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.97	51	29143	0.108	ppbv #	66
9) Propene	3.02	41	7462	0.077	ppbv #	16
13) Ethanol	3.63	45	6016	0.638	ppbv #	39
15) Acetone	3.87	43	233120	1.619	ppbv #	72
20) Methylene Chloride	4.35	84	23109	0.321	ppbv	97
25) Ethyl Acetate	5.70	43	37127	0.102	ppbv #	78
26) Hexane	5.70	57	46083	0.258	ppbv #	41
29) Chloroform	5.77	83	45344	0.179	ppbv	87
31) cis-1,2-Dichloroethene	5.56	61	136022	0.841	ppbv	96
34) 2-Butanone	5.27	43	20087	0.115	ppbv #	1
38) Trichloroethene	7.85	130	94586	0.644	ppbv #	85
39) 1,2-Dichloropropane	7.19	63	1000936	7.272	ppbv #	29
52) Tetrachloroethene	11.24	164	1742134	11.869	ppbv	98
53) Toluene	9.83	91	19843	0.049	ppbv #	20
58) Ethyl Benzene	12.98	91	29253	0.055	ppbv	96
59) m/p-Xylene	13.01	91	14471	0.032	ppbv #	30
74) 1,2,4-Trimethylbenzene	16.78	105	21380	0.043	ppbv #	55

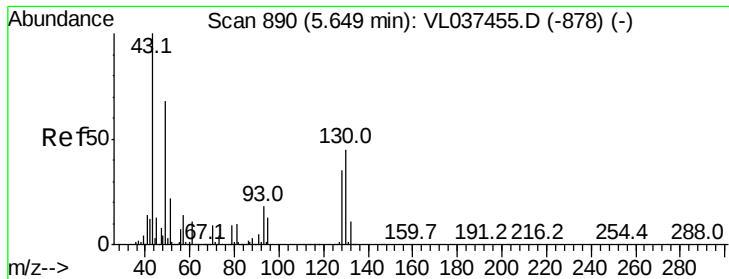
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Aug 17 02:13:47 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. 0.03 min

Lab File: VL037600.D

Acq: 9 Sep 2021 16:02

Instrument :

MSVOA_L

ClientSampleId :

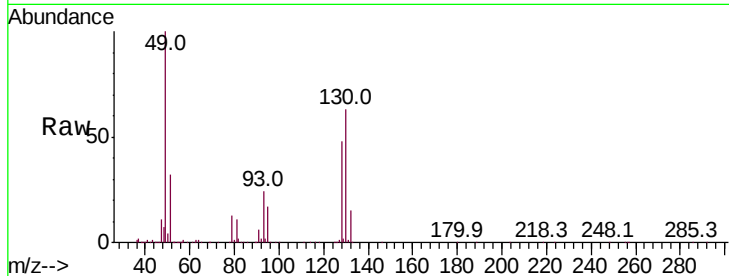
Tot Ion: 49 Resp: 1414543

Ion Ratio Lower Upper

49 100

128 53.3 27.5 82.4

130 70.4 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

800000

600000

400000

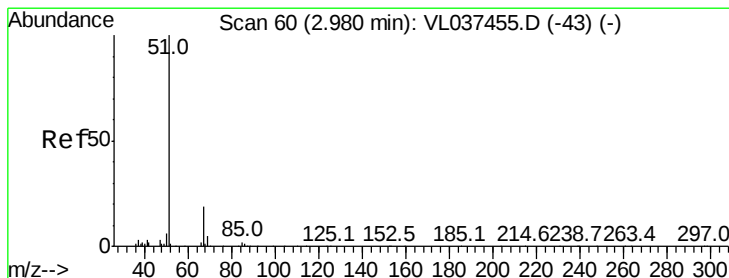
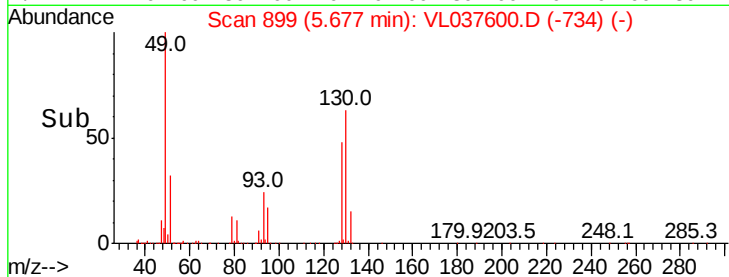
200000

0

5.60 5.65 5.70 5.75

5.68

Time-->



#3

Chlorodifluoromethane

Concen: 0.108 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL037600.D

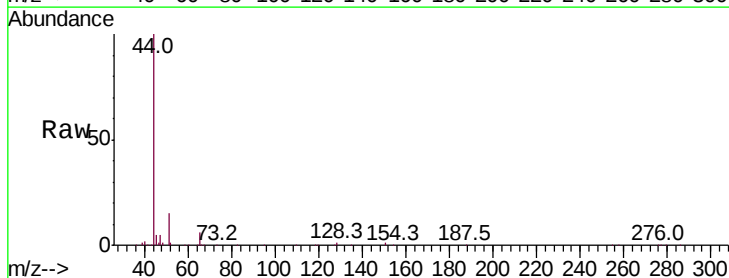
Acq: 9 Sep 2021 16:02

Tgt Ion: 51 Resp: 29143

Ion Ratio Lower Upper

51 100

67 2.7 14.2 21.2#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

15000

10000

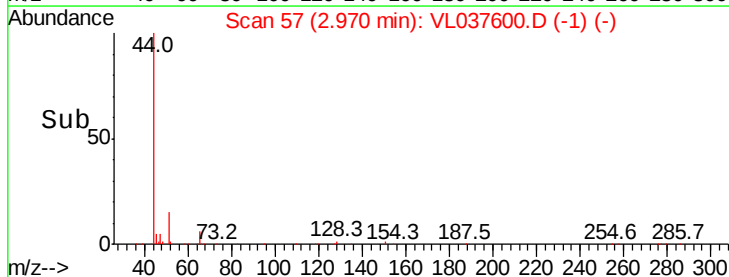
5000

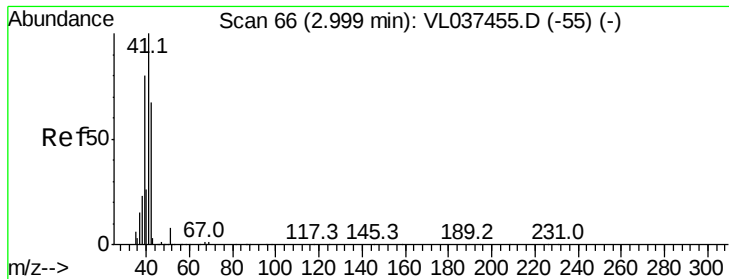
0

2.90 3.00 3.10

2.97

Time-->





#9

Propene

Concen: 0.077 ppbv

RT: 3.02 min Scan# 72

Delta R.T. 0.02 min

Lab File: VL037600.D

Acq: 9 Sep 2021 16:02

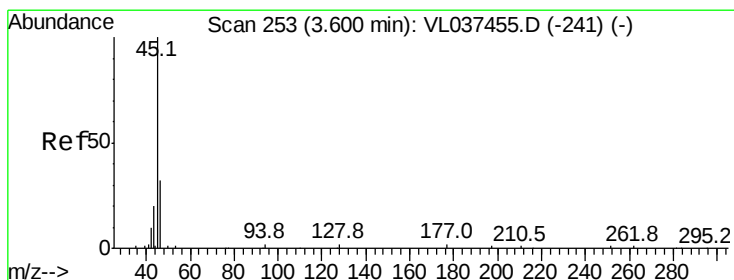
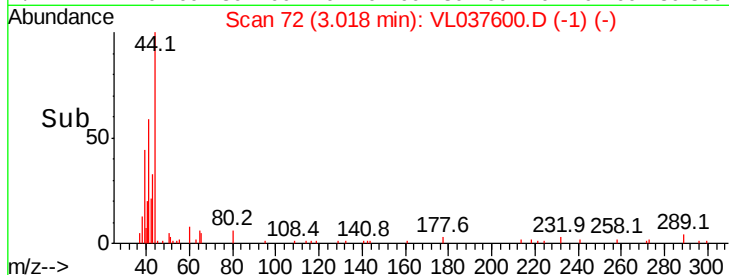
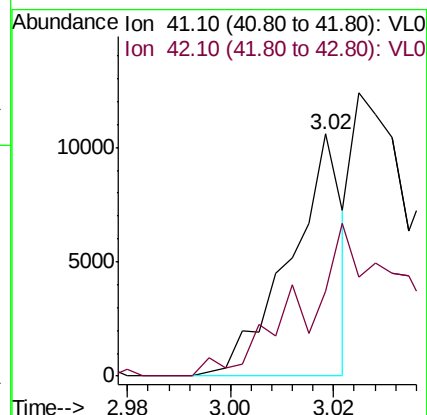
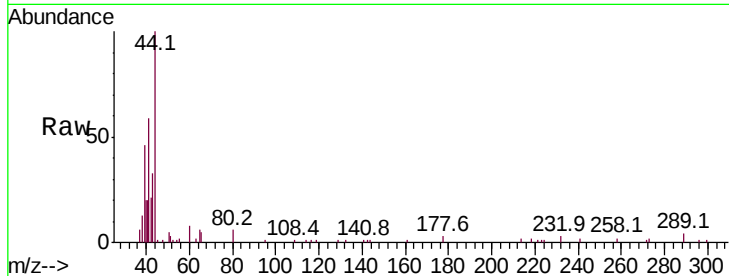
Instrument :
MSVOA_L
ClientSampled :

Tot Ion: 41 Resp: 7462

Ion Ratio Lower Upper

41 100

42 0.0 53.7 80.5#



#13

Ethanol

Concen: 0.638 ppbv

RT: 3.63 min Scan# 263

Delta R.T. 0.03 min

Lab File: VL037600.D

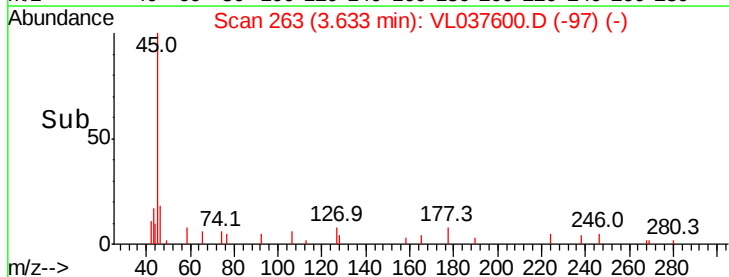
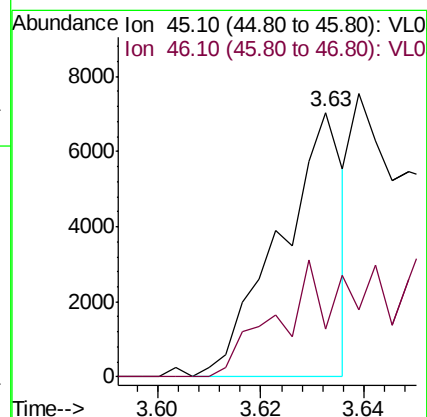
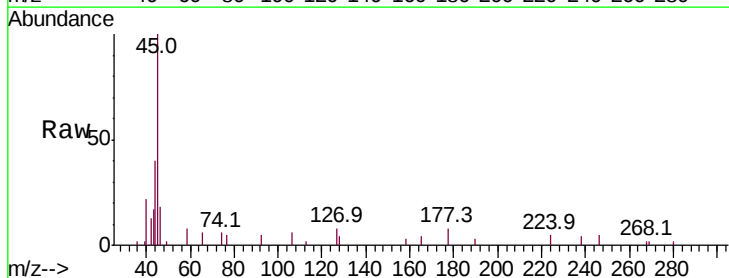
Acq: 9 Sep 2021 16:02

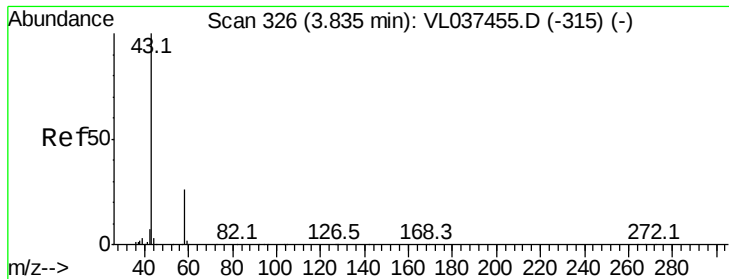
Tgt Ion: 45 Resp: 6016

Ion Ratio Lower Upper

45 100

46 0.0 14.1 56.5#





#15

Acetone

Concen: 1.619 ppbv

RT: 3.87 min Scan# 338

Delta R.T. 0.04 min

Lab File: VL037600.D

Acq: 9 Sep 2021 16:02

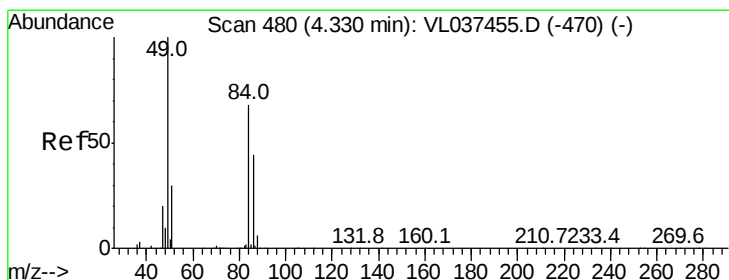
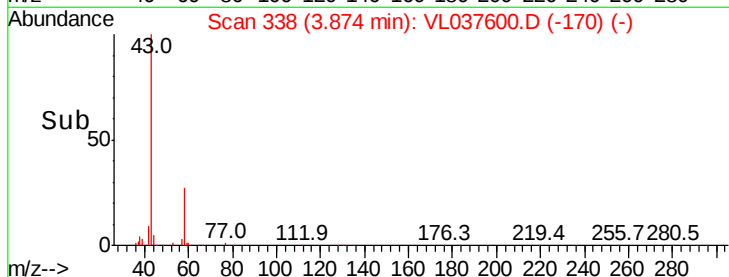
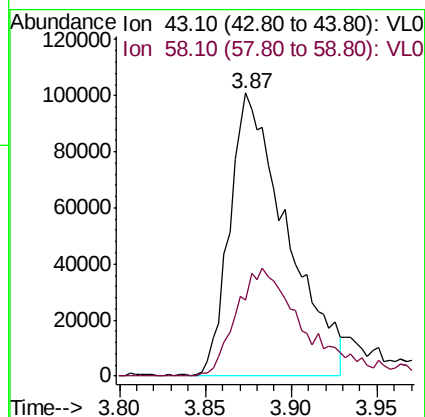
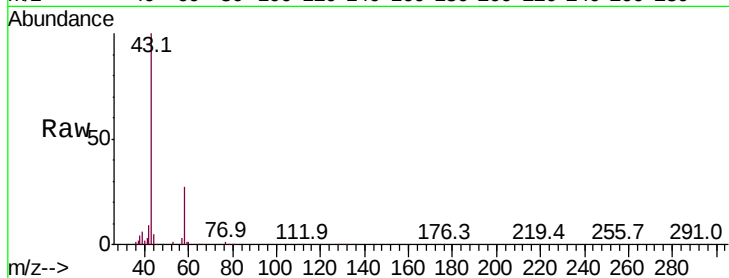
Instrument :
MSVOA_L
ClientSampleId :

Tot Ion: 43 Resp: 233120

Ion Ratio Lower Upper

43 100

58 46.7 24.8 37.2#



#20

Methylene Chloride

Concen: 0.321 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.02 min

Lab File: VL037600.D

Acq: 9 Sep 2021 16:02

Tgt Ion: 84 Resp: 23109

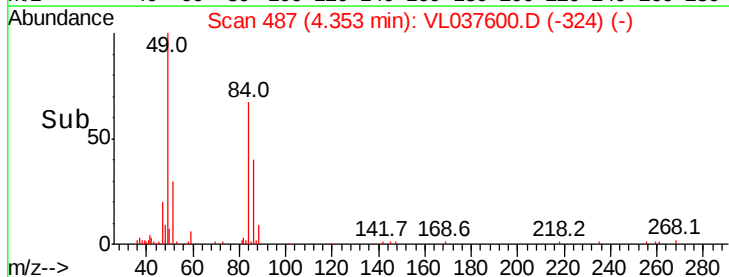
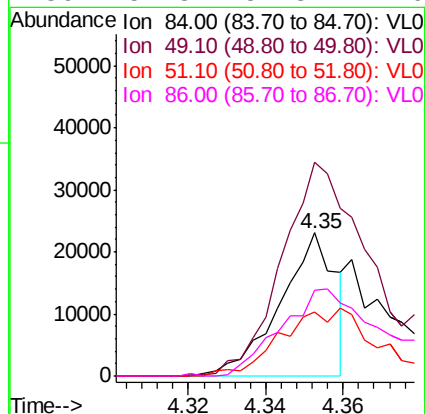
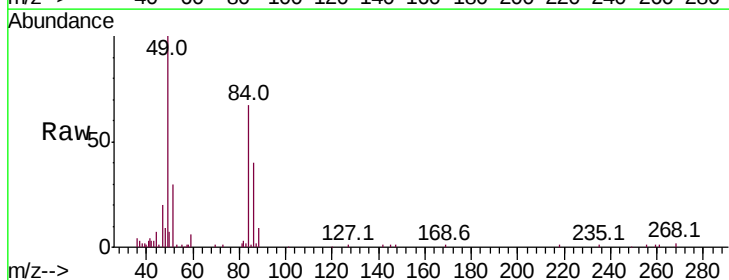
Ion Ratio Lower Upper

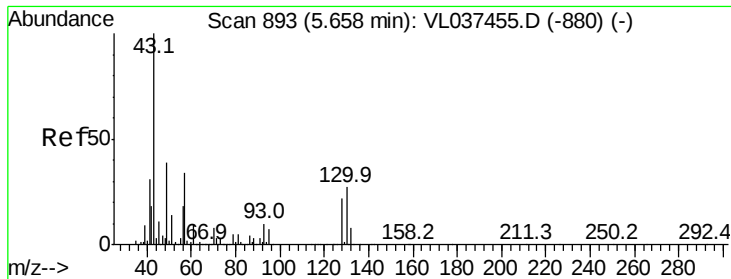
84 100

49 148.3 118.2 177.2

51 44.7 36.6 55.0

86 57.8 51.8 77.6





#25

Ethyl Acetate

Concen: 0.102 ppbv

RT: 5.70 min Scan# 905

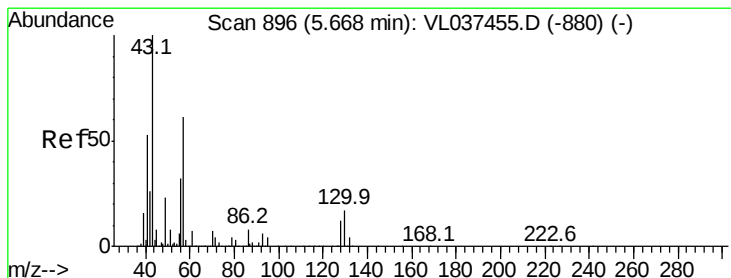
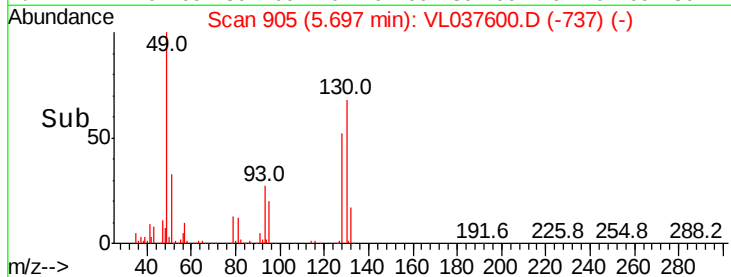
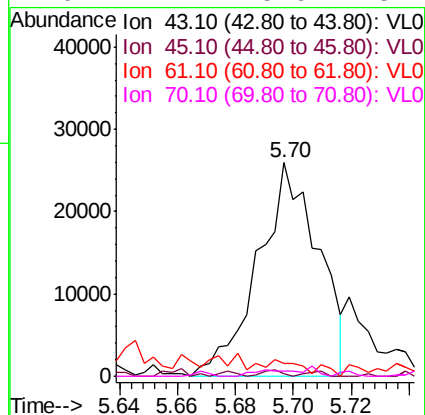
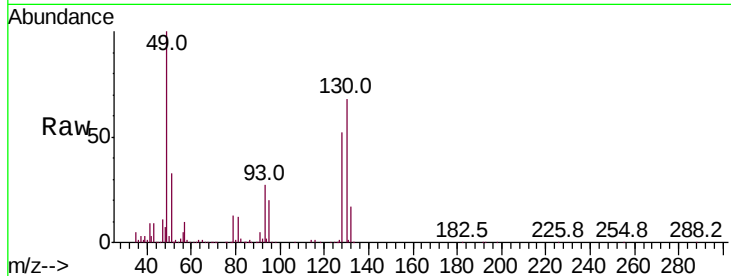
Delta R.T. 0.04 min

Lab File: VL037600.D

Acq: 9 Sep 2021 16:02

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:	43	Resp:	37127
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.0	12.0#
61	0.0	8.0	12.0#
70	4.2	5.6	8.4#



#26

Hexane

Concen: 0.258 ppbv

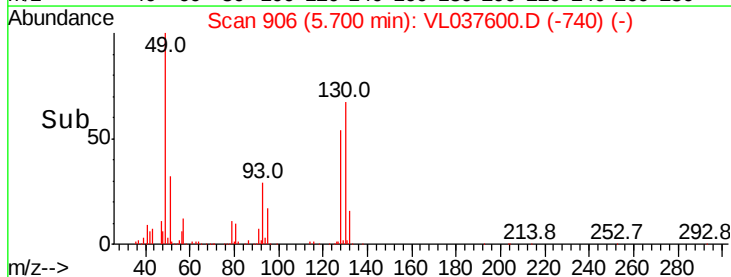
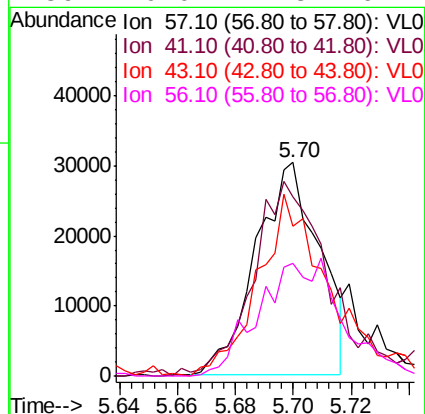
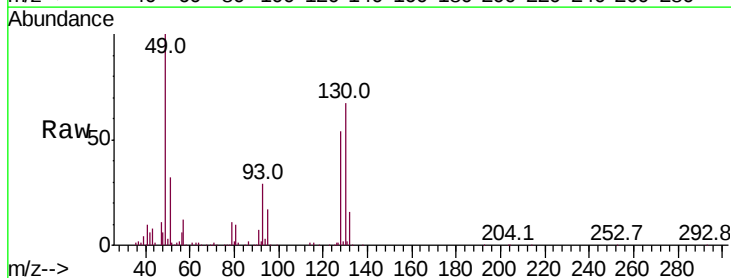
RT: 5.70 min Scan# 906

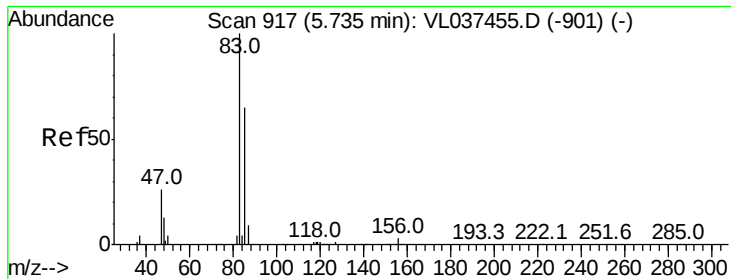
Delta R.T. 0.03 min

Lab File: VL037600.D

Acq: 9 Sep 2021 16:02

Tgt Ion:	57	Resp:	46083
Ion	Ratio	Lower	Upper
57	100		
41	112.0	72.3	108.5#
43	104.0	172.3	258.5#
56	0.0	42.8	64.2#

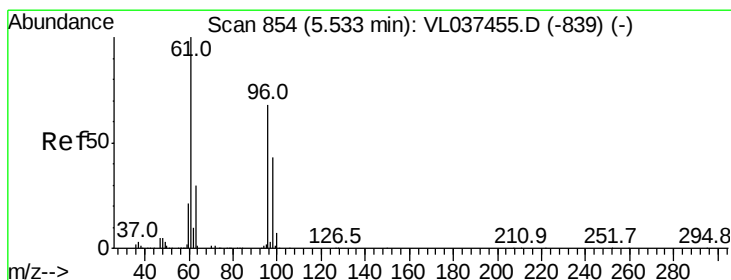
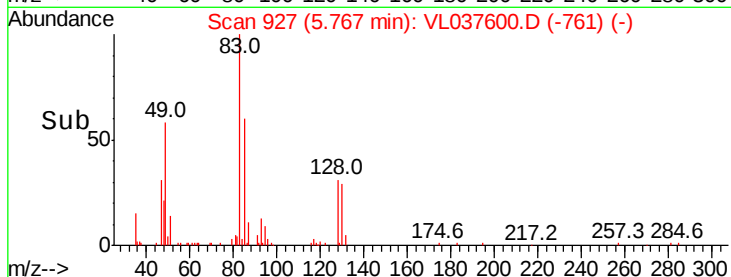
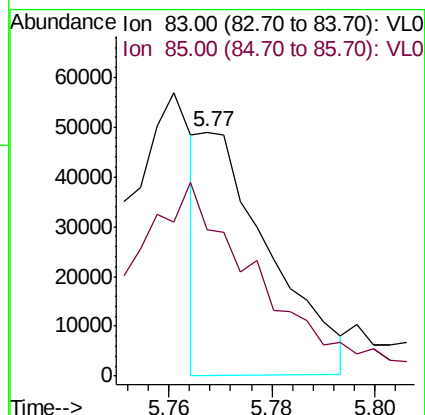
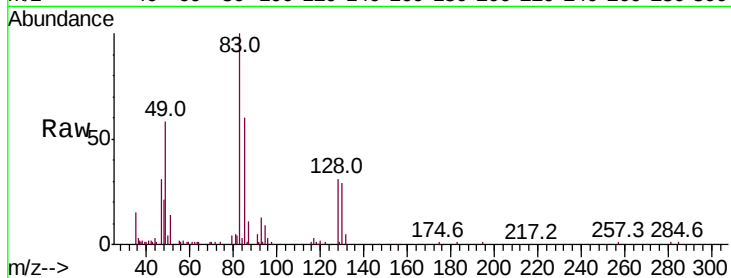




#29
Chloroform
Concen: 0.179 ppbv
RT: 5.77 min Scan# 927
Delta R.T. 0.03 min
Lab File: VL037600.D
Acq: 9 Sep 2021 16:02

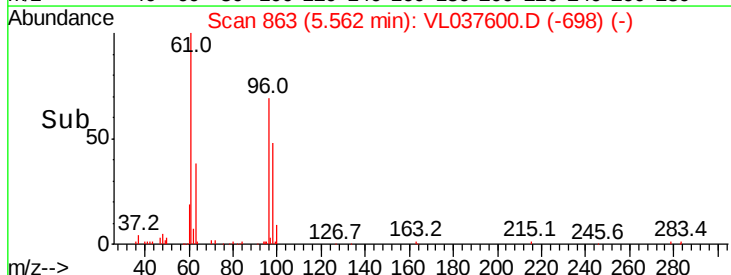
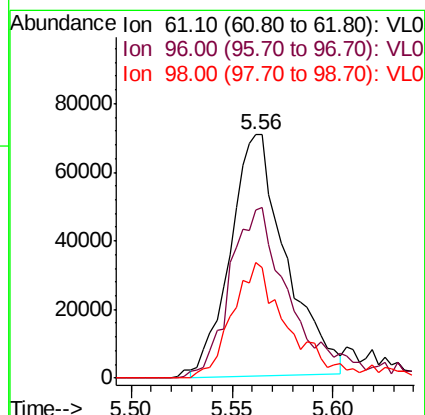
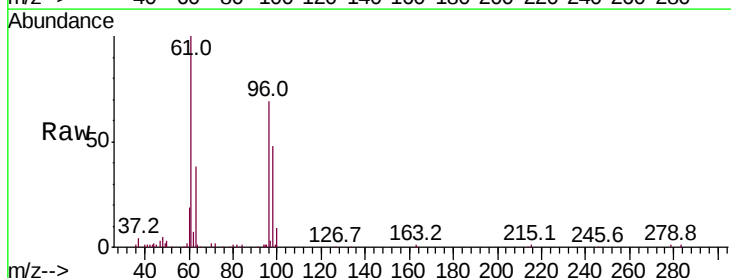
Instrument :
MSVOA_L
ClientSampled :

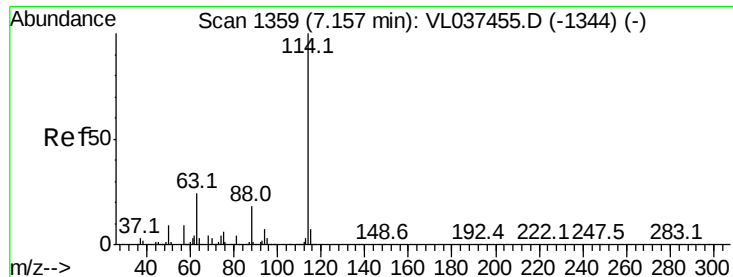
Tot Ion: 83 Resp: 45344
Ion Ratio Lower Upper
83 100
85 55.3 52.3 78.5



#31
cis-1,2-Dichloroethene
Concen: 0.841 ppbv
RT: 5.56 min Scan# 863
Delta R.T. 0.03 min
Lab File: VL037600.D
Acq: 9 Sep 2021 16:02

Tgt Ion: 61 Resp: 136022
Ion Ratio Lower Upper
61 100
96 68.2 54.8 82.2
98 49.2 34.2 51.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. 0.03 min

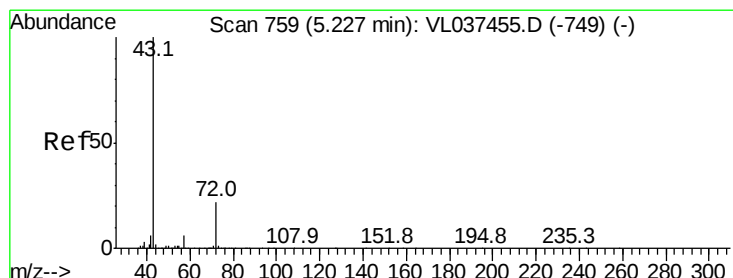
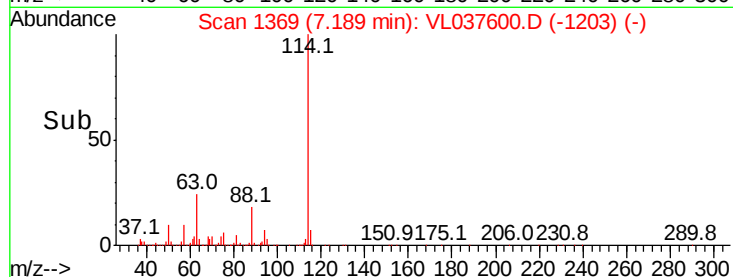
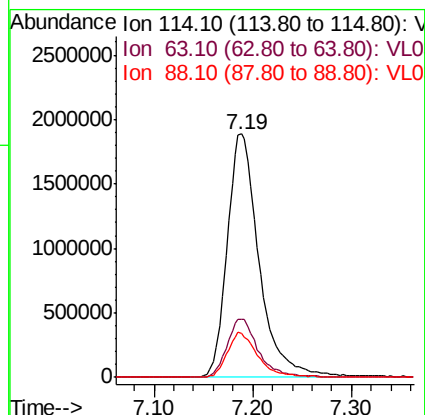
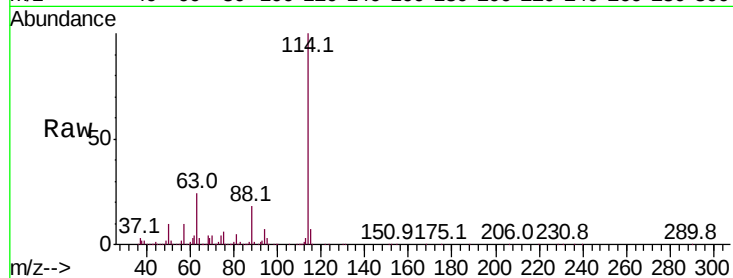
Lab File: VL037600.D

Acq: 9 Sep 2021 16:02

Instrument :
MSVOA_L
ClientSampleId :

Tot Ion:114 Resp: 4260815

Ion	Ratio	Lower	Upper
114	100		
63	24.0	19.3	28.9
88	18.0	14.2	21.4



#34

2-Butanone

Concen: 0.115 ppbv

RT: 5.27 min Scan# 773

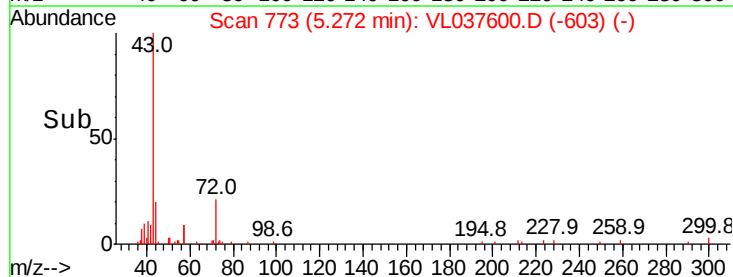
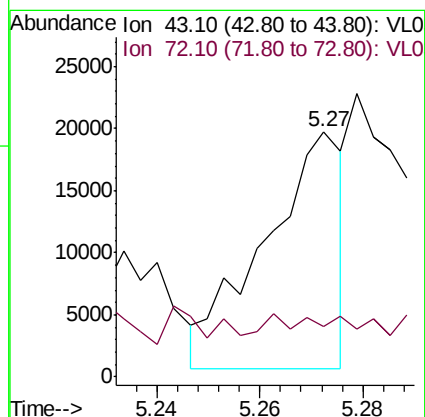
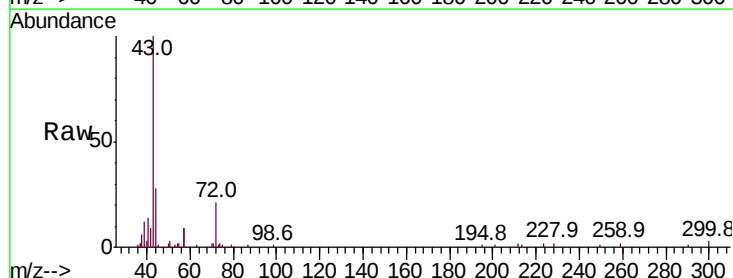
Delta R.T. 0.04 min

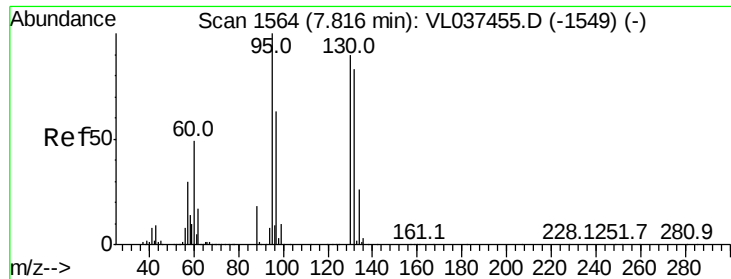
Lab File: VL037600.D

Acq: 9 Sep 2021 16:02

Tgt Ion: 43 Resp: 20087

Ion	Ratio	Lower	Upper
43	100		
72	71.7	17.4	26.0





#38

Trichloroethene

Concen: 0.644 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. 0.04 min

Lab File: VL037600.D

Acq: 9 Sep 2021 16:02

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:130 Resp: 94586

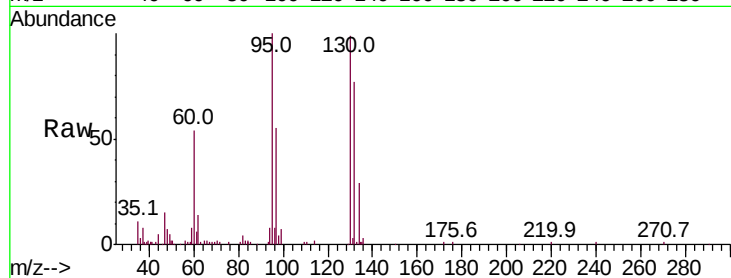
Ion Ratio Lower Upper

130 100

95 100.5 89.2 133.8

132 77.1 74.0 111.0

97 54.5 56.6 84.8#

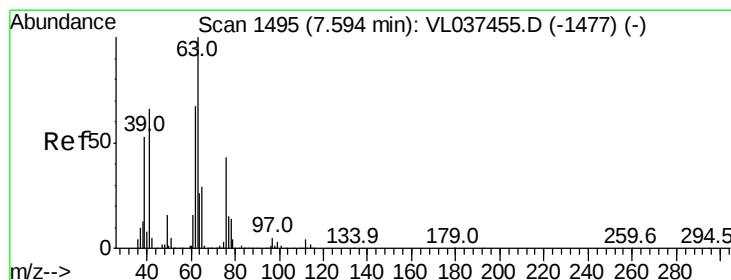
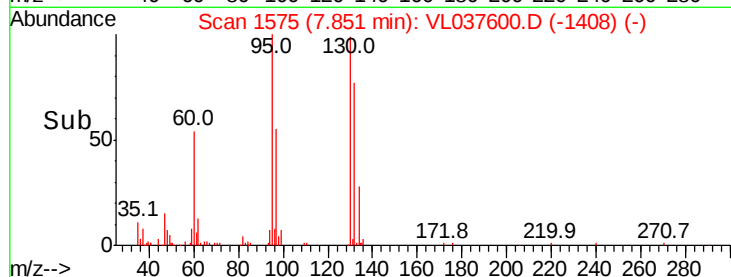
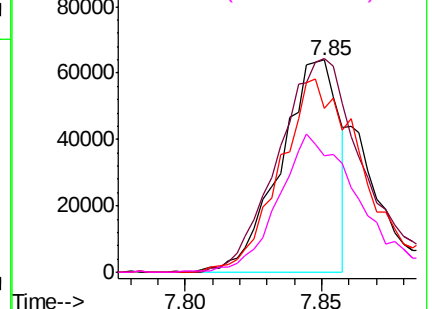


Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.272 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. -0.41 min

Lab File: VL037600.D

Acq: 9 Sep 2021 16:02

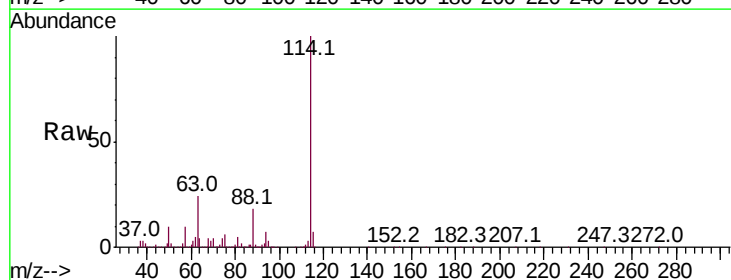
Tgt Ion: 63 Resp: 1000936

Ion Ratio Lower Upper

63 100

41 0.0 52.4 78.6#

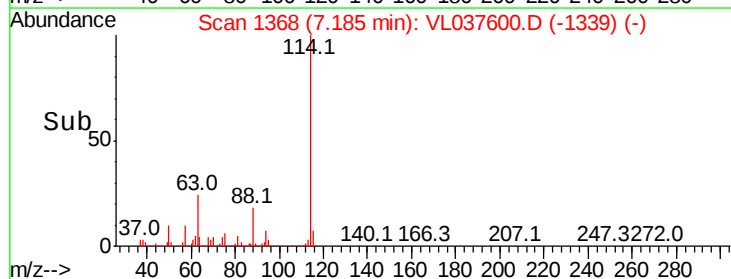
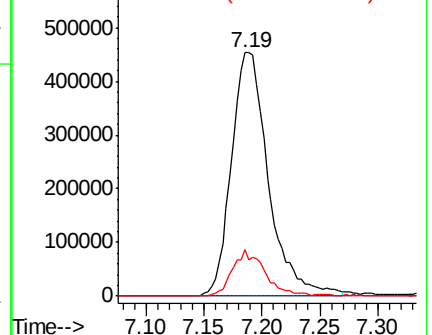
62 19.0 53.6 80.4#

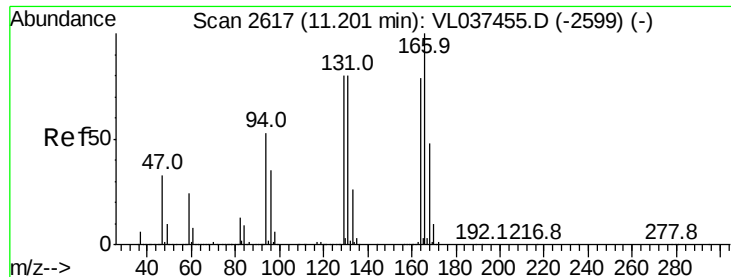


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 11.869 ppbv

RT: 11.24 min Scan# 2629

Delta R.T. 0.04 min

Lab File: VL037600.D

Acq: 9 Sep 2021 16:02

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:164 Resp: 1742134

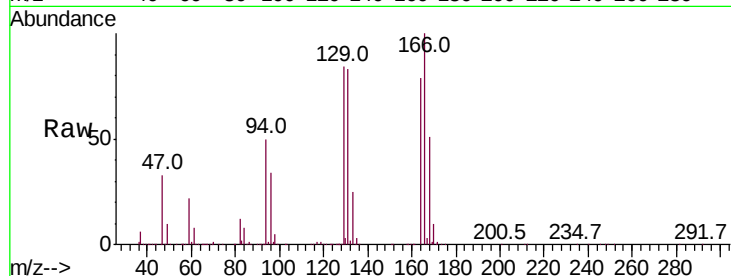
Ion Ratio Lower Upper

164 100

166 125.6 100.7 151.1

129 105.0 80.9 121.3

131 103.9 80.2 120.4

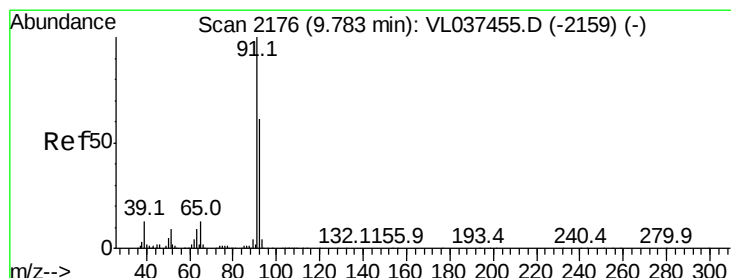
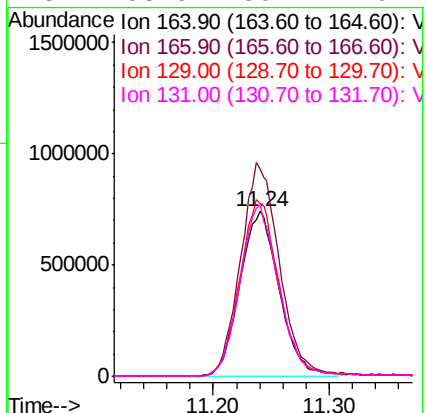
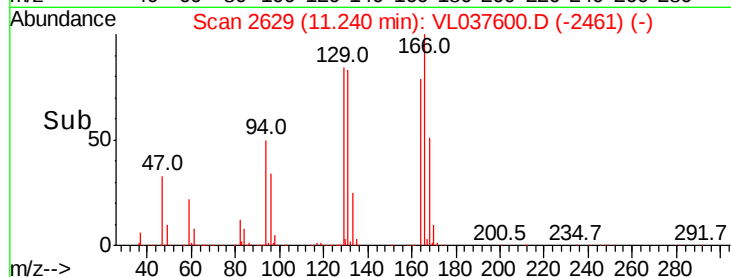


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.049 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. 0.04 min

Lab File: VL037600.D

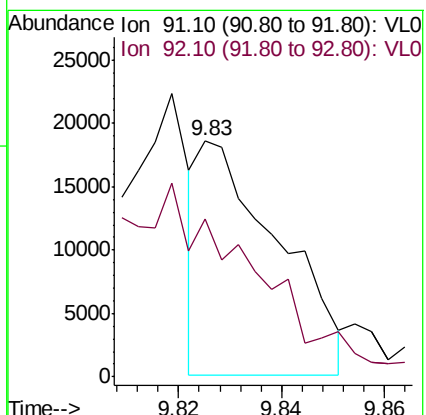
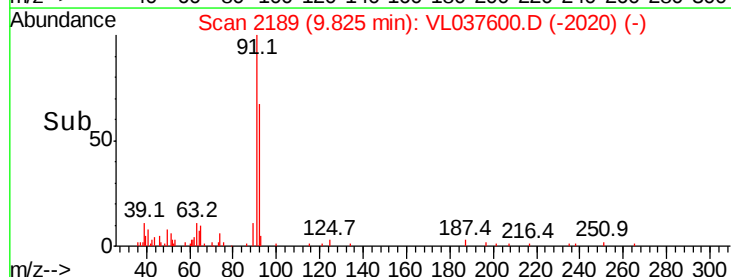
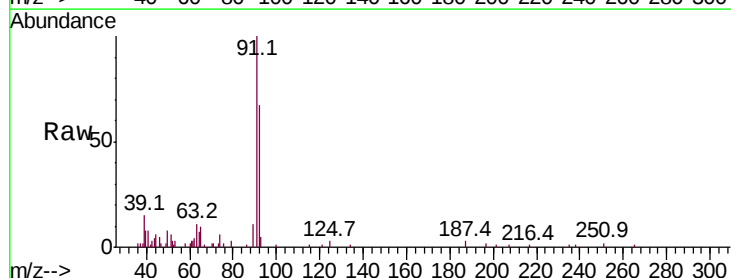
Acq: 9 Sep 2021 16:02

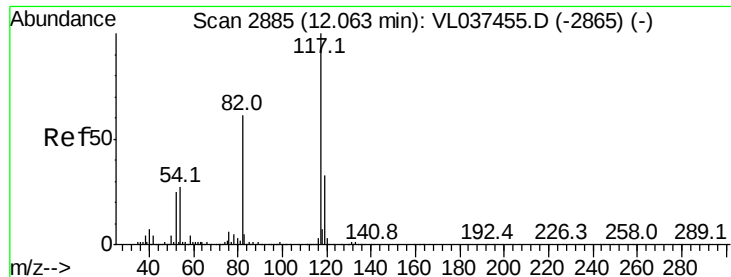
Tgt Ion: 91 Resp: 19843

Ion Ratio Lower Upper

91 100

92 0.0 48.8 73.2#

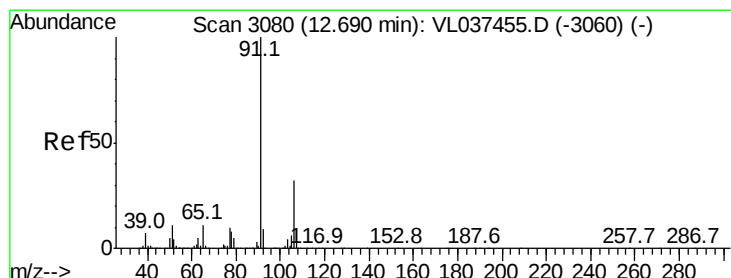
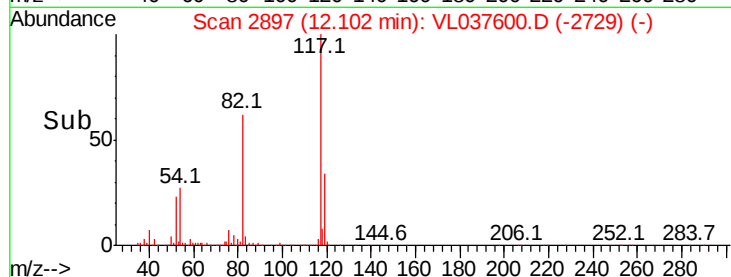
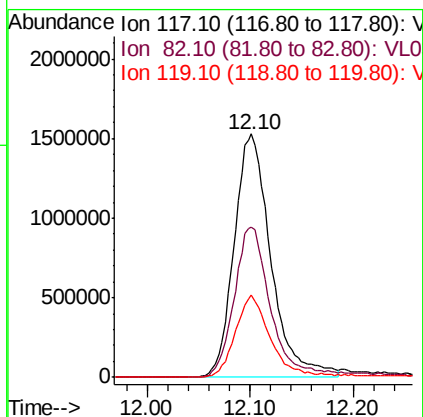
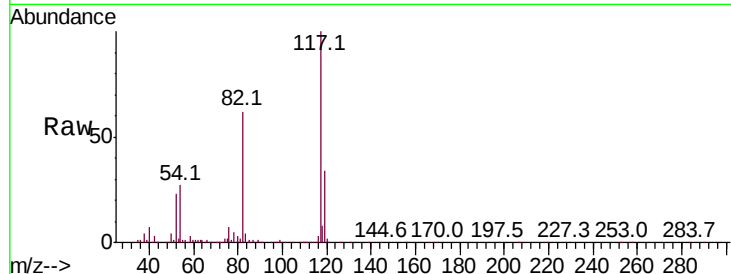




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2897
Delta R.T. 0.04 min
Lab File: VL037600.D
Acq: 9 Sep 2021 16:02

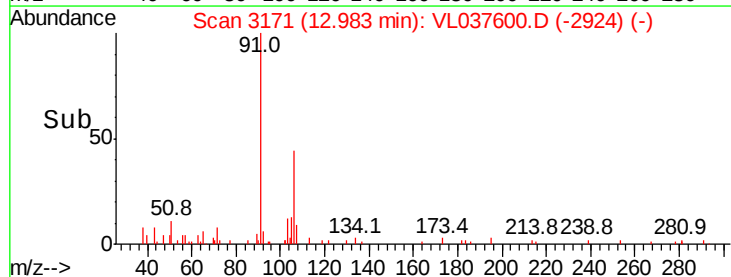
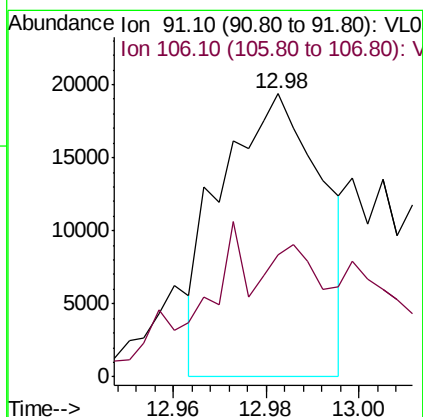
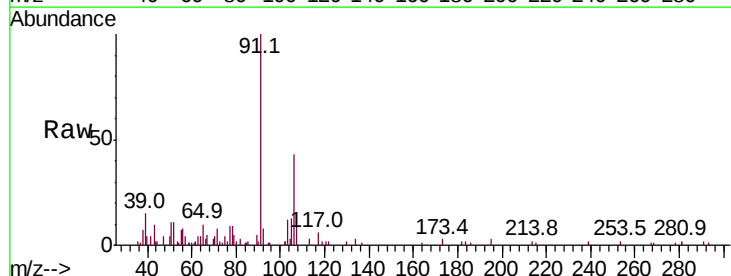
Instrument :
MSVOA_L
ClientSampled :

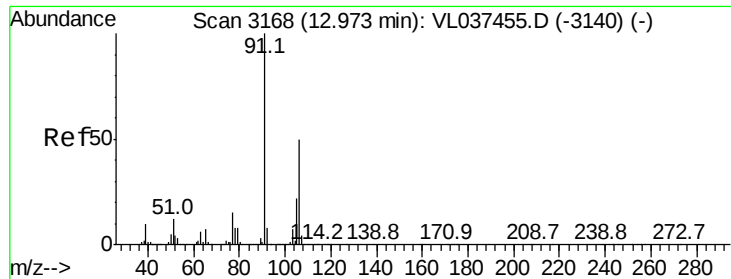
Tot Ion:117 Resp: 3798438
Ion Ratio Lower Upper
117 100
82 63.9 52.9 79.3
119 33.9 24.8 37.2



#58
Ethyl Benzene
Concen: 0.055 ppbv
RT: 12.98 min Scan# 3171
Delta R.T. 0.29 min
Lab File: VL037600.D
Acq: 9 Sep 2021 16:02

Tgt Ion: 91 Resp: 29253
Ion Ratio Lower Upper
91 100
106 34.1 25.7 38.5

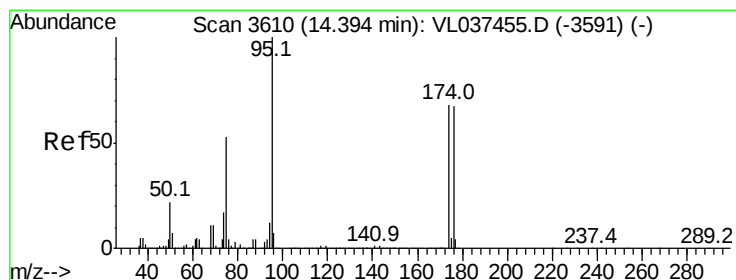
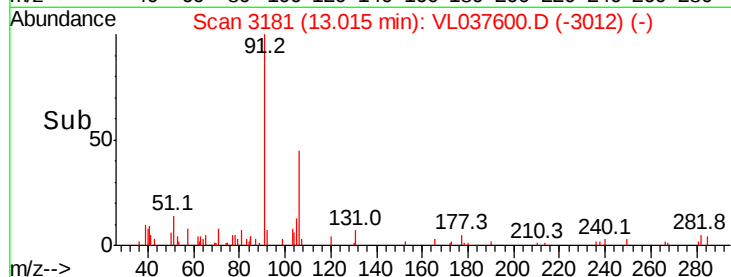
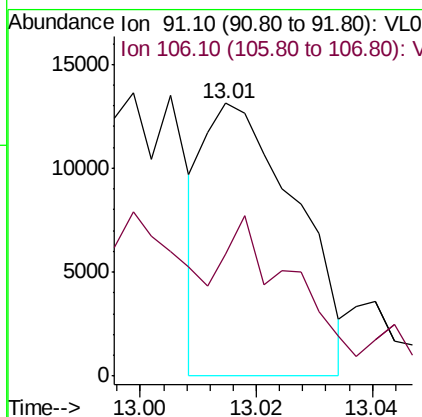
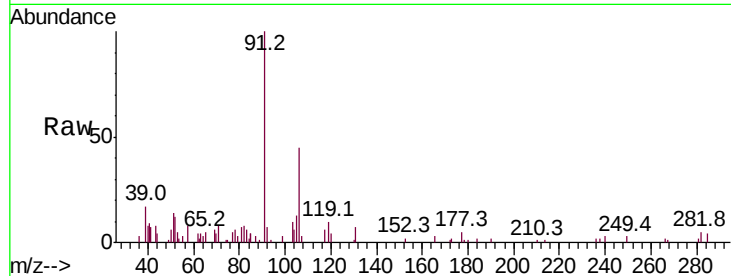




#59
m/p-Xylene
Concen: 0.032 ppbv
RT: 13.01 min Scan# 3181
Delta R.T. 0.04 min
Lab File: VL037600.D
Acq: 9 Sep 2021 16:02

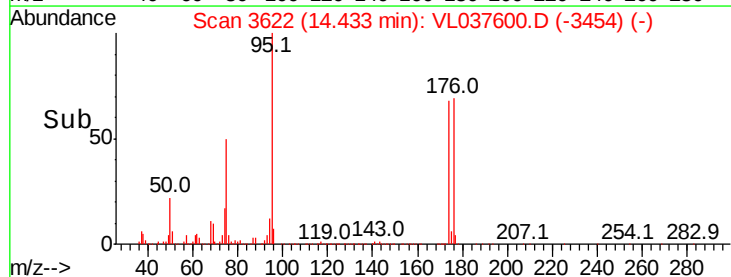
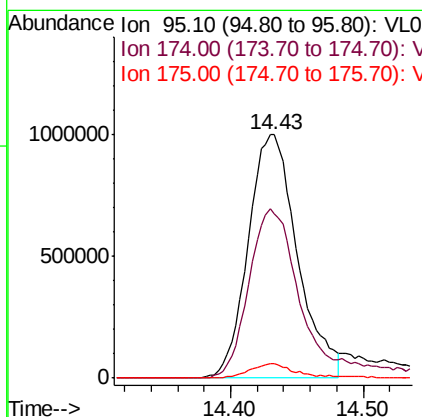
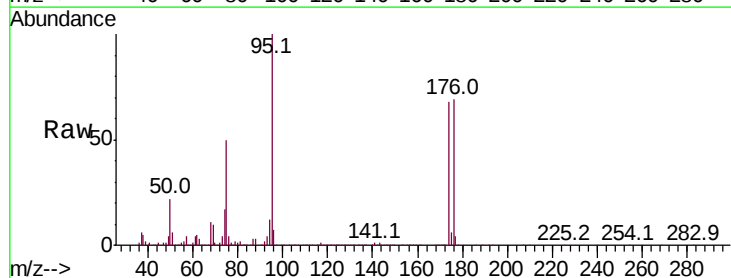
Instrument :
MSVOA_L
ClientSampleId :

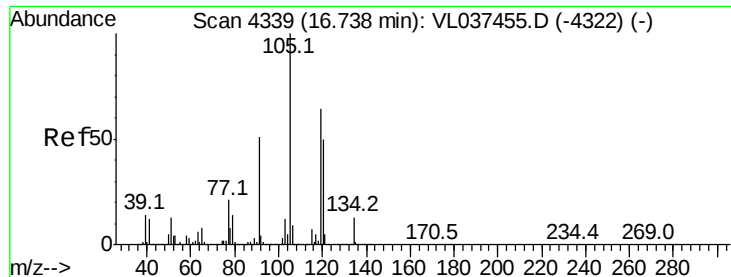
Tot Ion: 91 Resp: 14471
Ion Ratio Lower Upper
91 100
106 0.0 36.9 55.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.582 ppbv
RT: 14.43 min Scan# 3622
Delta R.T. 0.04 min
Lab File: VL037600.D
Acq: 9 Sep 2021 16:02

Tgt Ion: 95 Resp: 2585851
Ion Ratio Lower Upper
95 100
174 79.8 59.6 89.4
175 5.9 4.6 7.0





#74

1,2,4-Trimethylbenzene

Concen: 0.043 ppbv

RT: 16.78 min Scan# 4352

Delta R.T. 0.04 min

Lab File: VL037600.D

Acq: 9 Sep 2021 16:02

Instrument :

MSVOA_L

ClientSampleId :

Tot Ion:105 Resp: 21380

Ion Ratio Lower Upper

105 100

120 27.6 40.4 60.6#

91 5.0 44.6 67.0#

77 17.2 17.8 26.6#

