

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101221\
 Data File : VL037851.D
 Acq On : 13 Oct 2021 11:22
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Quant Time: Oct 14 01:08:46 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1224887	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3554314	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3008627	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2075186	9.86	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.60%

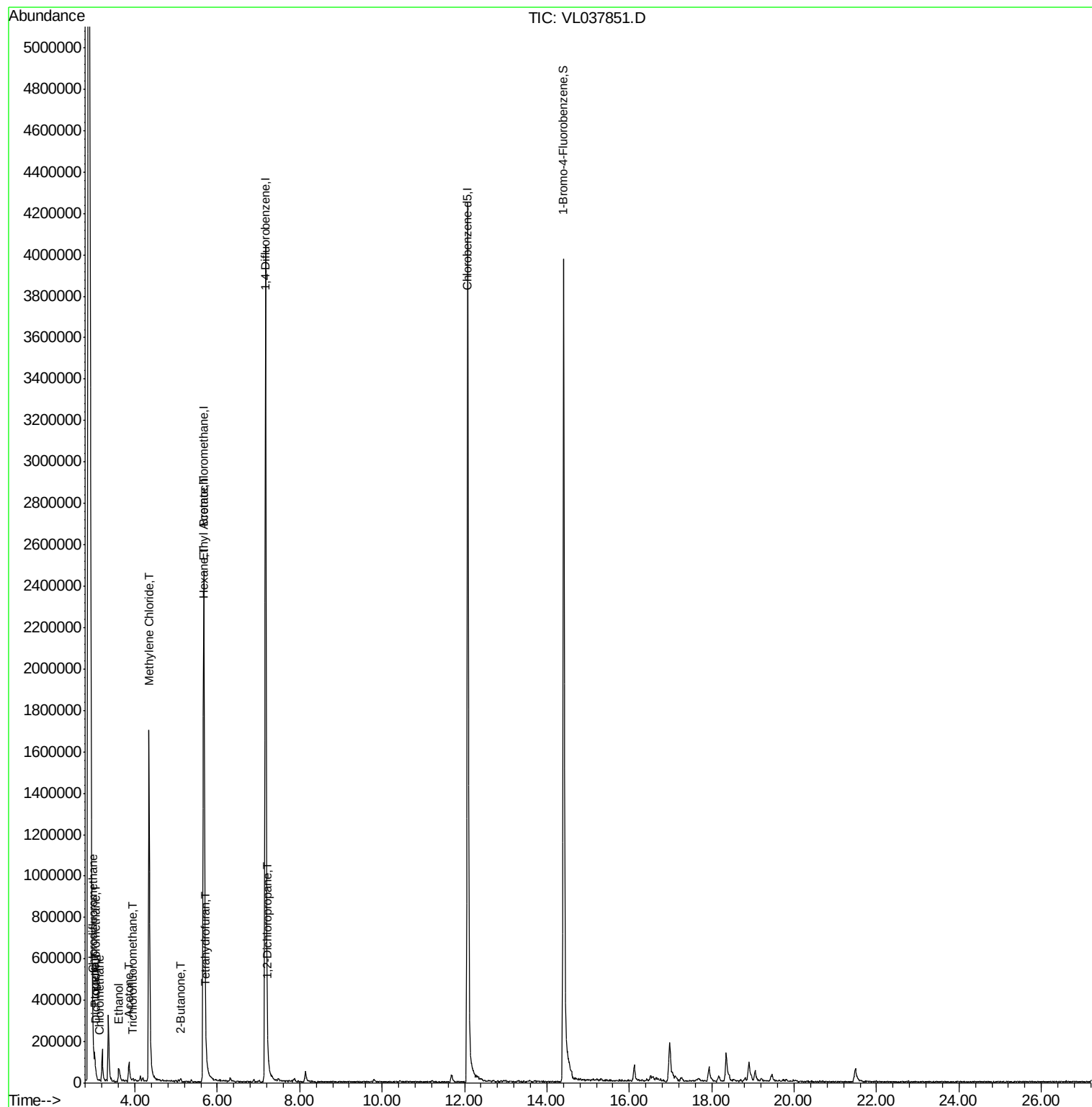
Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.05	85	19450	0.099	ppbv 99
3) Chlorodifluoromethane	2.99	51	13133	0.056	ppbv # 88
4) Chloromethane	3.15	50	4921	0.057	ppbv # 50
9) Propene	3.01	41	5496	0.063	ppbv # 16
11) Trichlorofluoromethane	3.95	101	3641	0.021	ppbv # 83
13) Ethanol	3.61	45	41526	5.864	ppbv # 46
15) Acetone	3.85	43	110252	1.003	ppbv 98
20) Methylene Chloride	4.34	84	708228	12.747	ppbv 95
25) Ethyl Acetate	5.68	43	279541	0.906	ppbv # 77
26) Hexane	5.69	57	408074	2.686	ppbv # 44
34) 2-Butanone	5.10	43	3907	0.027	ppbv # 66
39) 1,2-Dichloropropane	7.23	63	9195	0.081	ppbv # 34
41) Tetrahydrofuran	5.73	42	2160	0.031	ppbv # 39

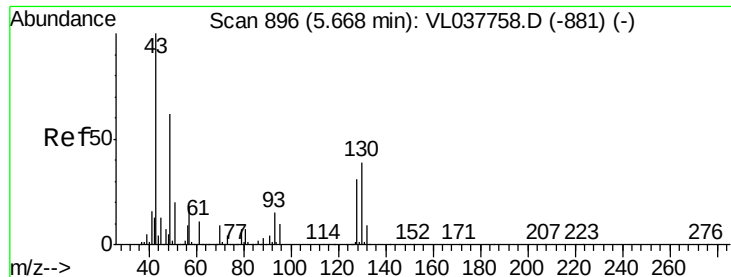
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. 0.00

Lab File: ClientSampleId: VSTDCCC010EC

Acq: 13 Oct 2021 11:22

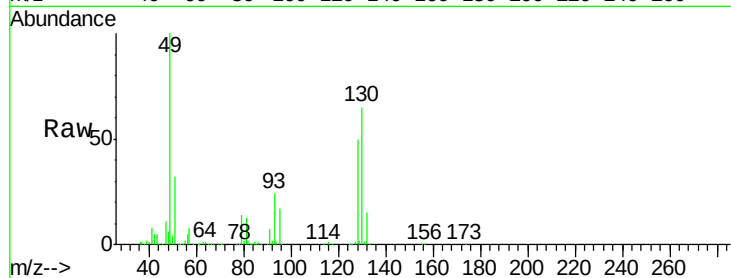
Tgt Ion: 49 Resp: 1224887

Ion Ratio Lower Upper

49 100

128 53.2 27.1 81.3

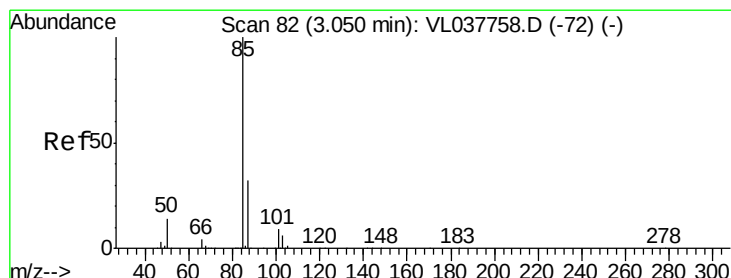
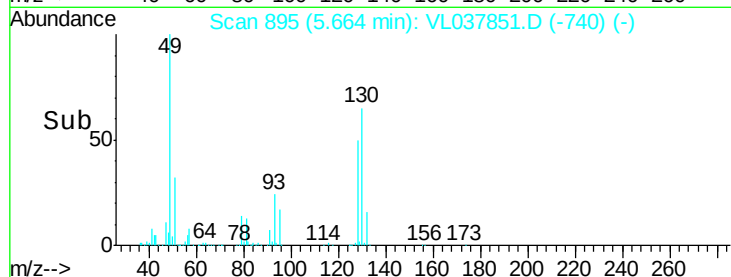
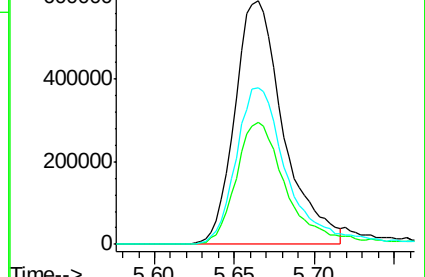
130 67.8 33.2 99.6



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.099 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.00 min

Lab File: VL037851.D

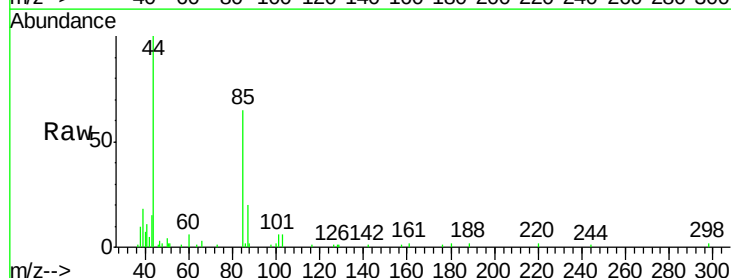
Acq: 13 Oct 2021 11:22

Tgt Ion: 85 Resp: 19450

Ion Ratio Lower Upper

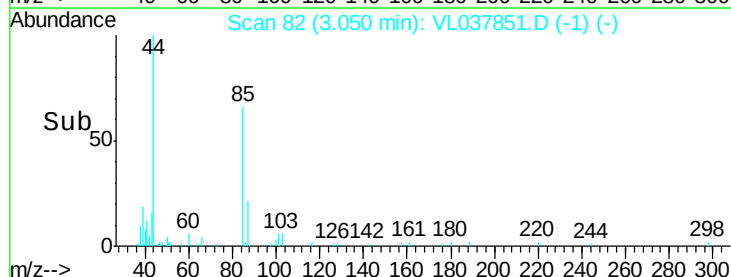
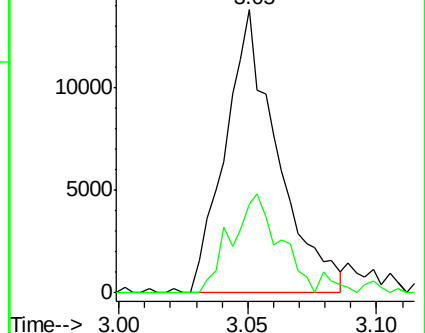
85 100

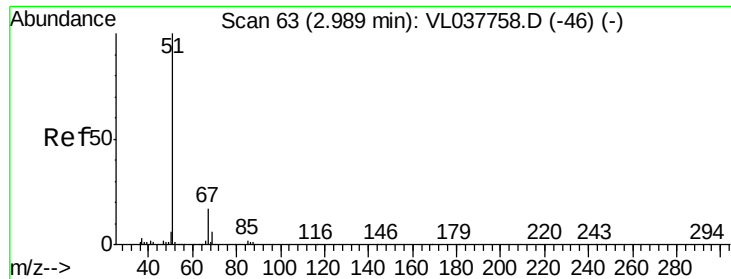
87 31.4 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.056 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

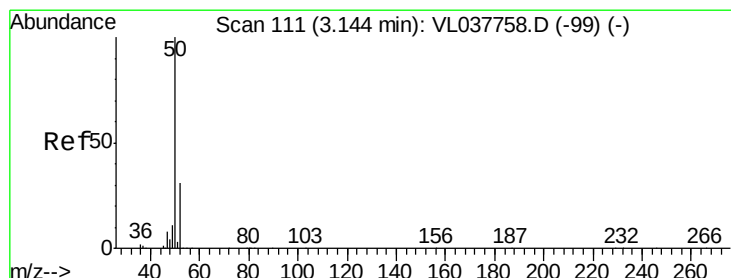
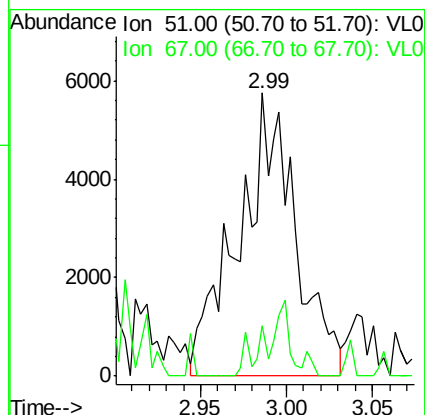
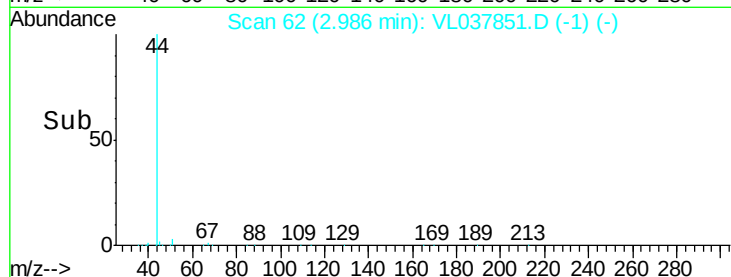
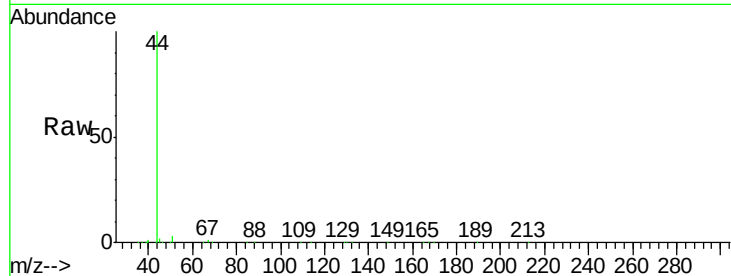
Acq: 13 Oct 2021 11:22 VSTDCCC010EC

Tgt Ion: 51 Resp: 13133

Ion Ratio Lower Upper

51 100

67 11.9 13.5 20.3#



#4

Chloromethane

Concen: 0.057 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL037851.D

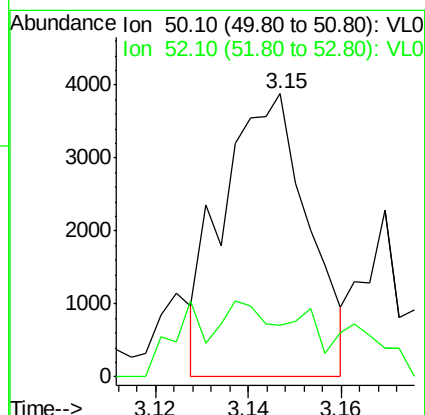
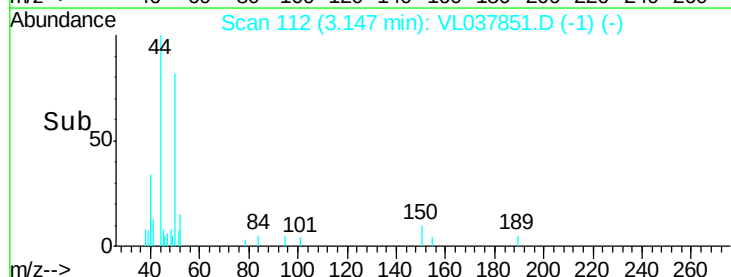
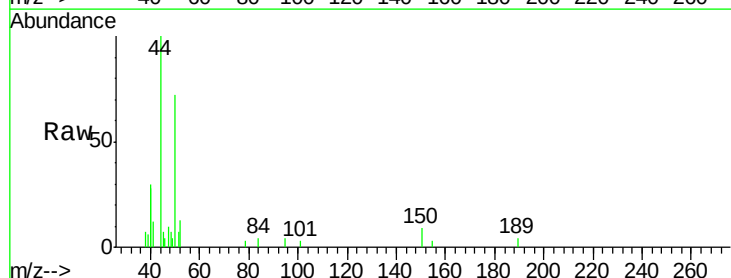
Acq: 13 Oct 2021 11:22

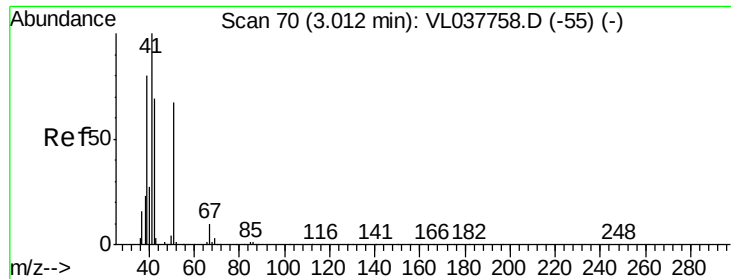
Tgt Ion: 50 Resp: 4921

Ion Ratio Lower Upper

50 100

52 3.1 24.4 36.6#





#9

Propene

Concen: 0.063 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

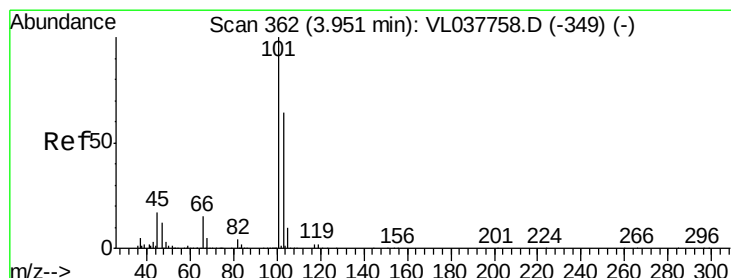
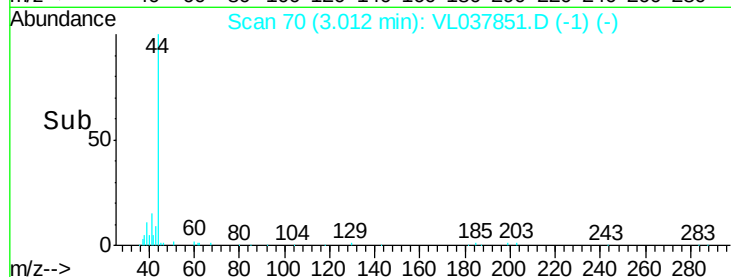
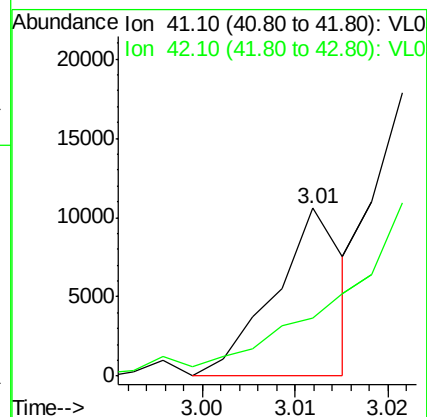
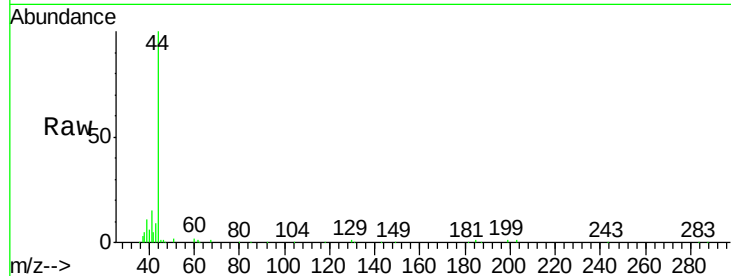
Acq: 13 Oct 2021 11:22 VSTDCCC010EC

Tgt Ion: 41 Resp: 5496

Ion Ratio Lower Upper

41 100

42 0.0 54.2 81.2#



#11

Trichlorofluoromethane

Concen: 0.021 ppbv

RT: 3.95 min Scan# 362

Delta R.T. 0.00 min

Lab File: VL037851.D

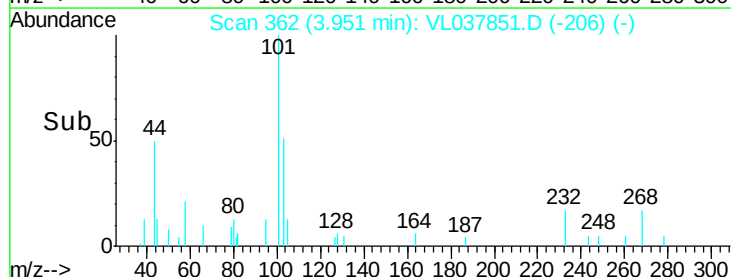
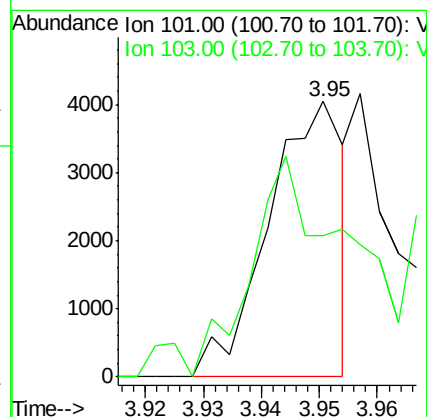
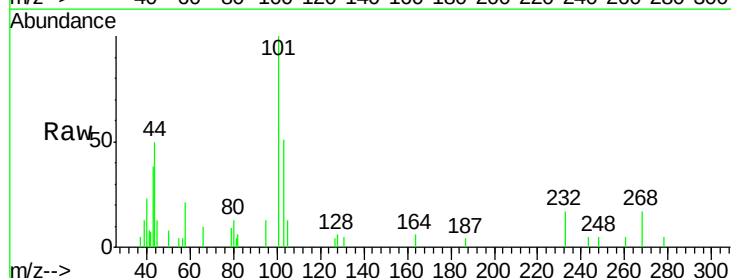
Acq: 13 Oct 2021 11:22

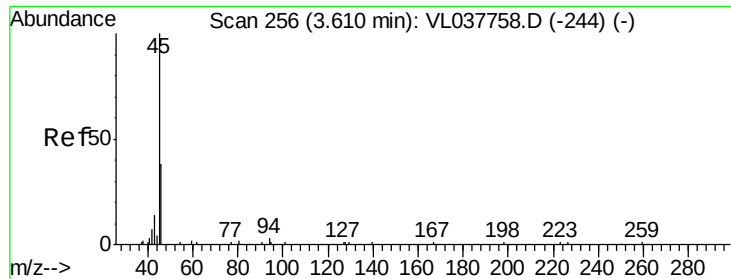
Tgt Ion: 101 Resp: 3641

Ion Ratio Lower Upper

101 100

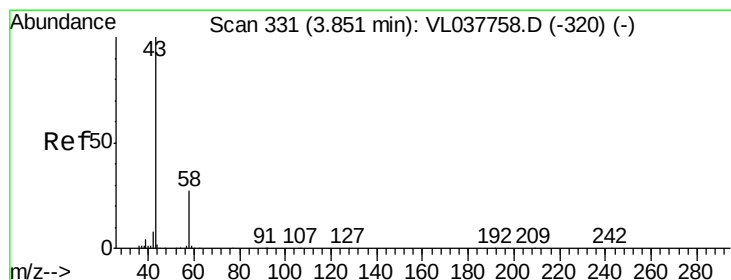
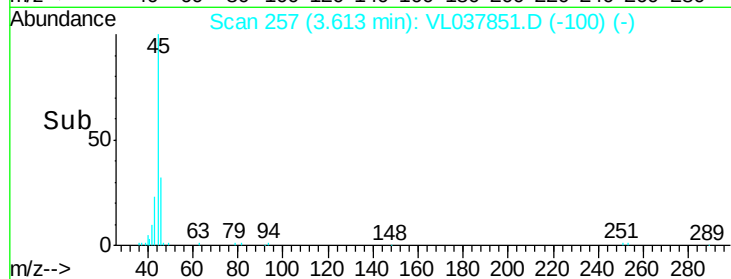
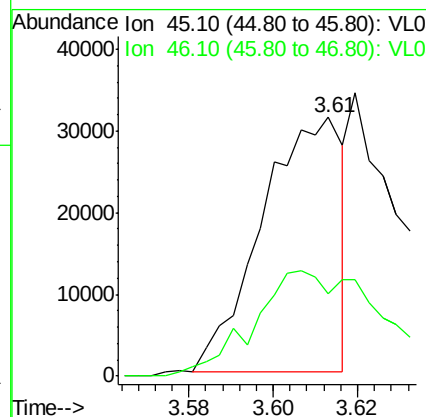
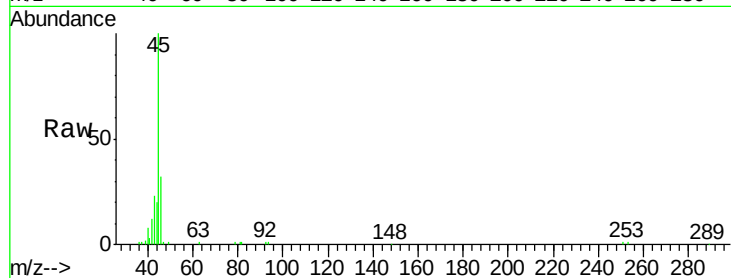
103 51.2 51.5 77.3#





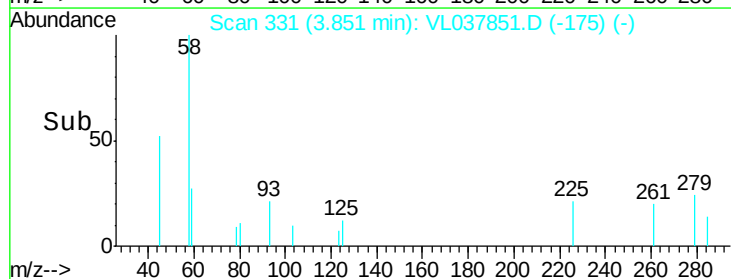
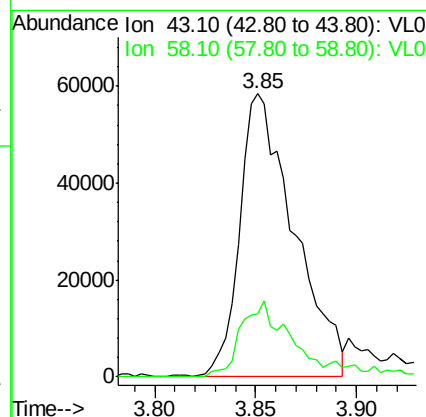
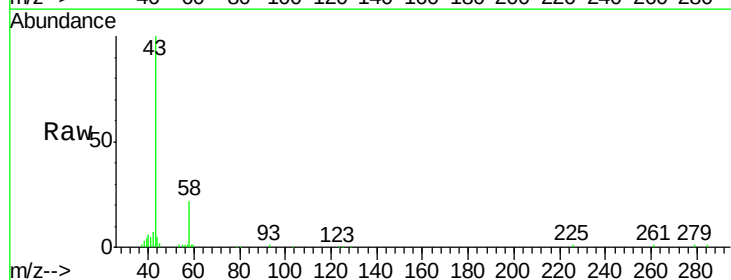
#13
Ethanol
Concen: 5.864 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 13 Oct 2021 11:22 VSTDCCC010EC

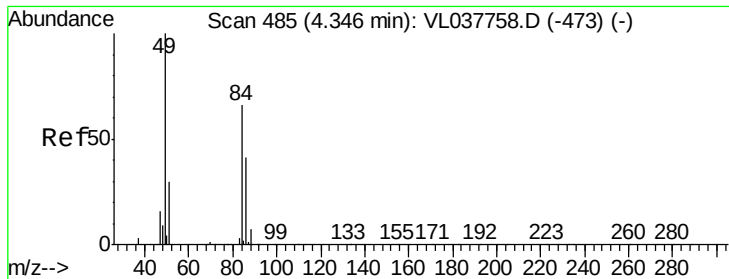
Tgt Ion: 45 Resp: 41526
Ion Ratio Lower Upper
45 100
46 88.1 20.2 81.0#



#15
Acetone
Concen: 1.003 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.00 min
Lab File: VL037851.D
Acq: 13 Oct 2021 11:22

Tgt Ion: 43 Resp: 110252
Ion Ratio Lower Upper
43 100
58 28.0 23.0 34.6





#20

Methylene Chloride

Concen: 12.747 ppbv

RT: 4.34 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 13 Oct 2021 11:22 VSTDCCC010EC

Tgt Ion: 84 Resp: 708228

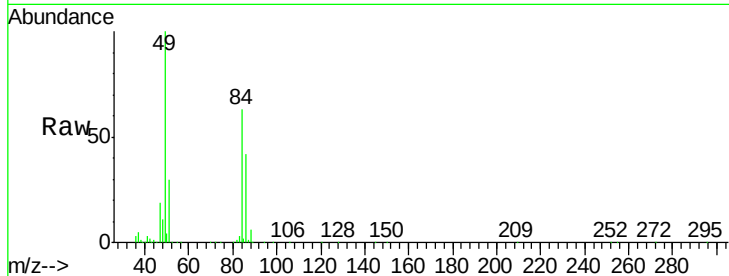
Ion Ratio Lower Upper

84 100

49 157.7 120.7 181.1

51 47.9 36.2 54.4

86 66.7 49.6 74.4

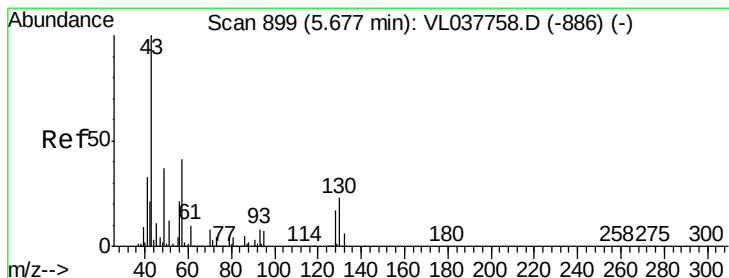
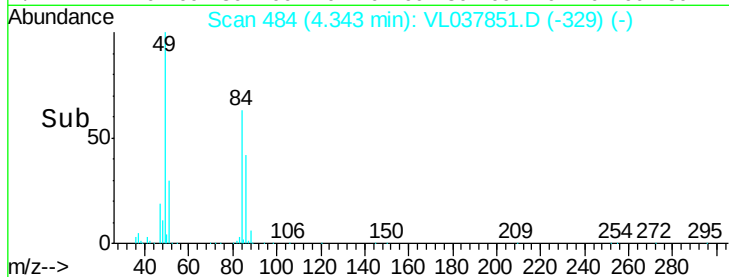
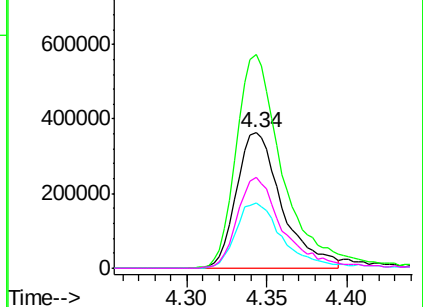


Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 0.906 ppbv

RT: 5.68 min Scan# 901

Delta R.T. 0.01 min

Lab File: VL037851.D

Acq: 13 Oct 2021 11:22

Tgt Ion: 43 Resp: 279541

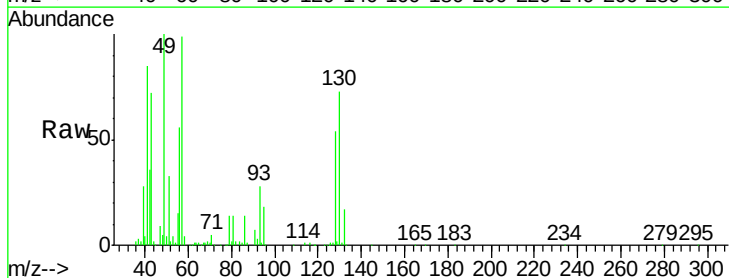
Ion Ratio Lower Upper

43 100

45 0.7 8.1 12.1#

61 0.3 7.5 11.3#

70 2.0 5.9 8.9#

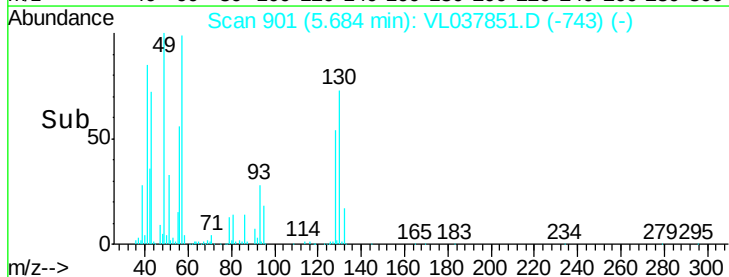
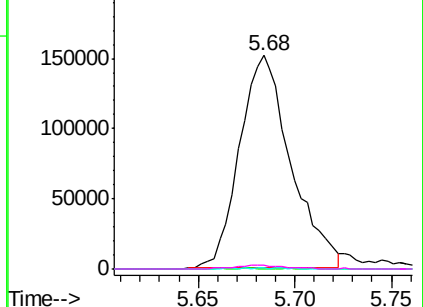


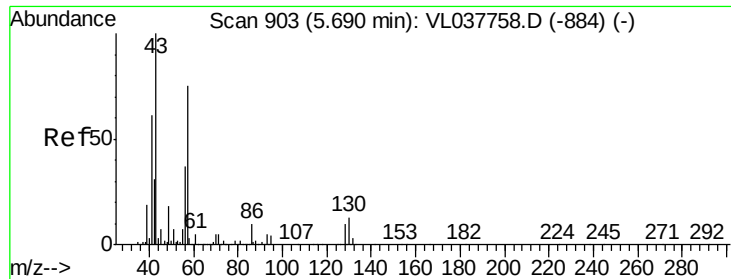
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

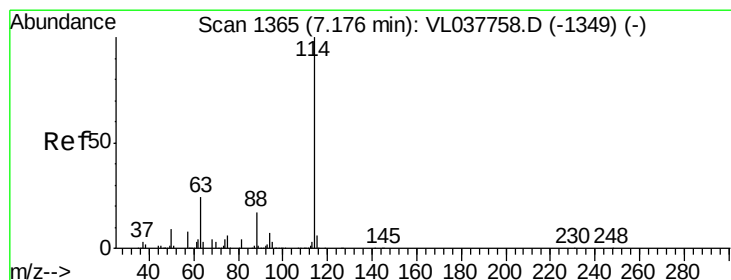
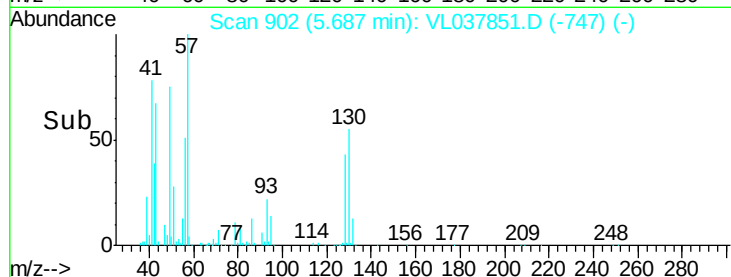
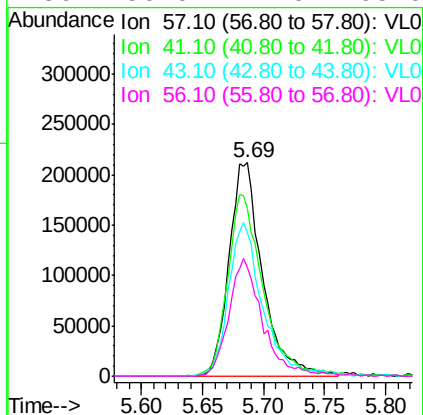
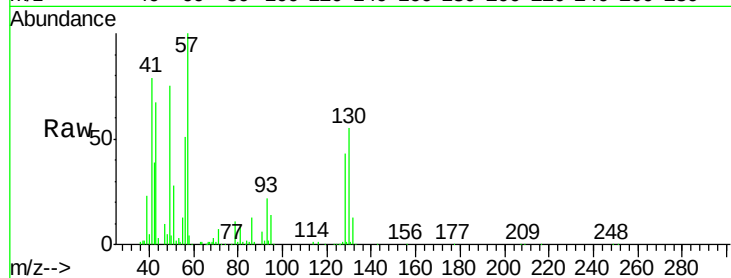
Ion 70.10 (69.80 to 70.80): VL0





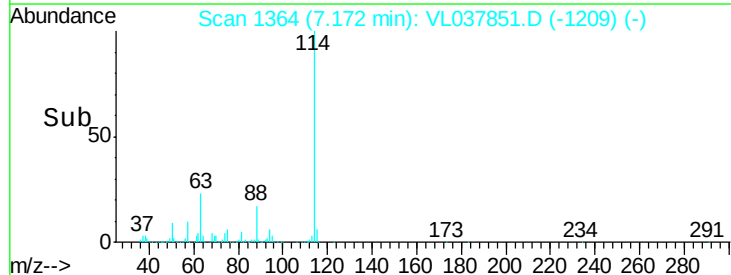
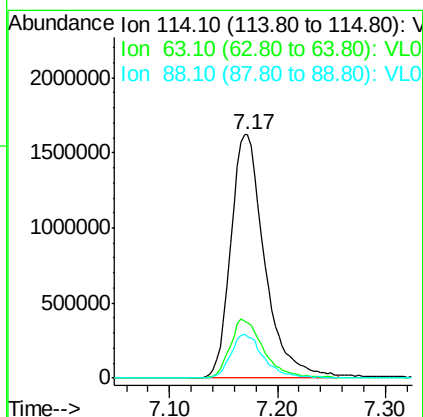
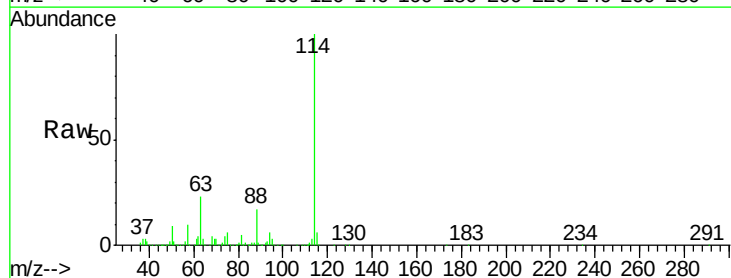
#26
Hexane
Concen: 2.686 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
VSTDCCC010EC
Acq: 13 Oct 2021 11:22

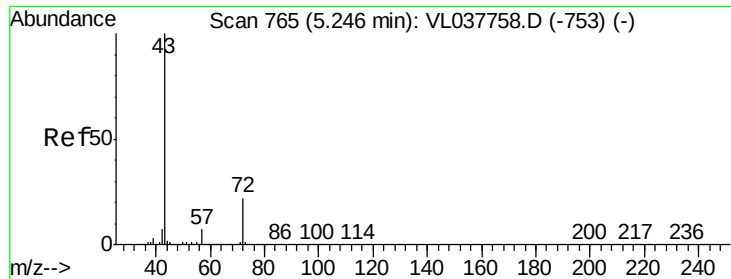
Tgt Ion:	57	Resp:	408074
Ion	Ratio	Lower	Upper
57	100		
41	90.9	69.6	104.4
43	73.6	171.4	257.0#
56	56.0	42.0	63.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.00 min
Lab File: VL037851.D
Acq: 13 Oct 2021 11:22

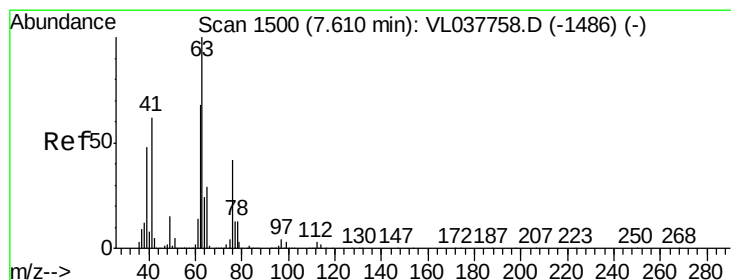
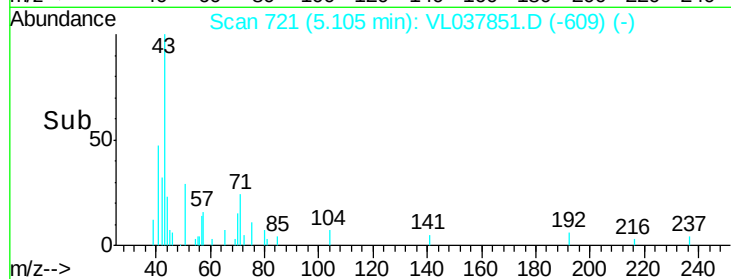
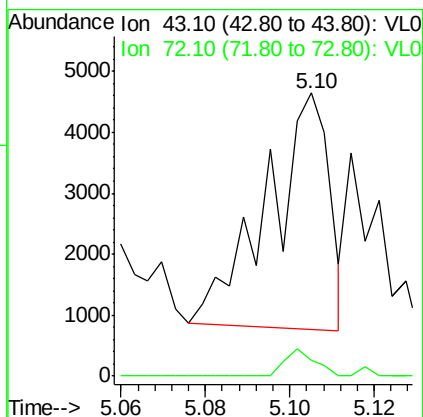
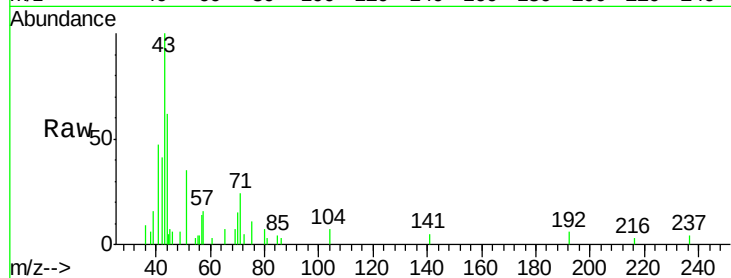
Tgt Ion:	114	Resp:	3554314
Ion	Ratio	Lower	Upper
114	100		
63	24.4	19.4	29.2
88	17.8	14.4	21.6





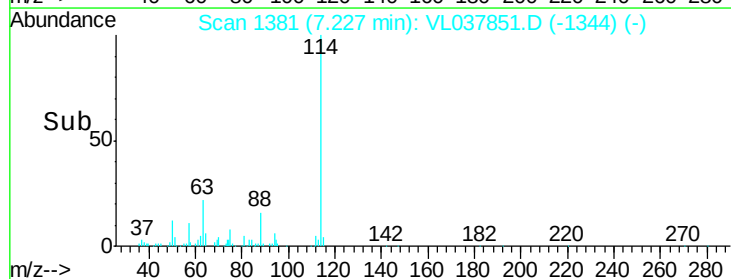
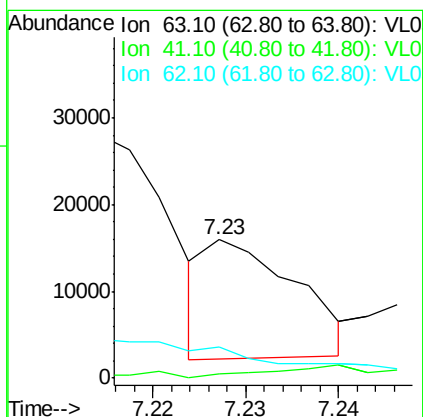
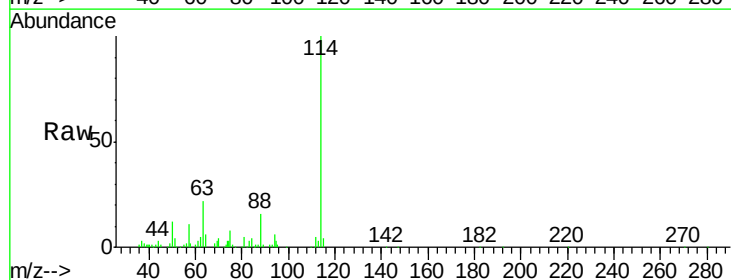
#34
 2-Butanone
 Concen: 0.027 ppbv
 RT: 5.10
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 VSTDCCC010EC
 Acq: 13 Oct 2021 11:22

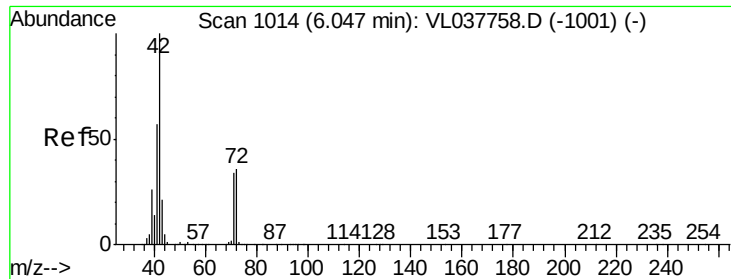
Tgt Ion: 43 Resp: 3907
 Ion Ratio Lower Upper
 43 100
 72 6.3 18.2 27.2#



#39
 1,2-Dichloropropane
 Concen: 0.081 ppbv
 RT: 7.23 min Scan# 1381
 Delta R.T. -0.38 min
 Lab File: VL037851.D
 Acq: 13 Oct 2021 11:22

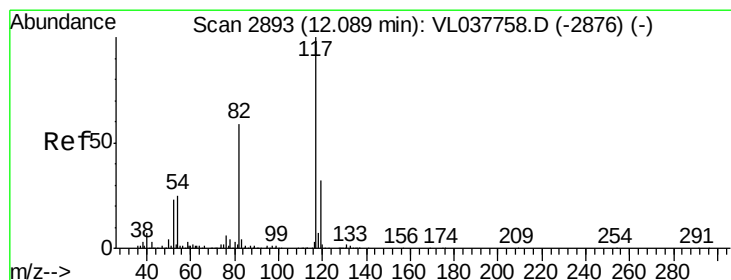
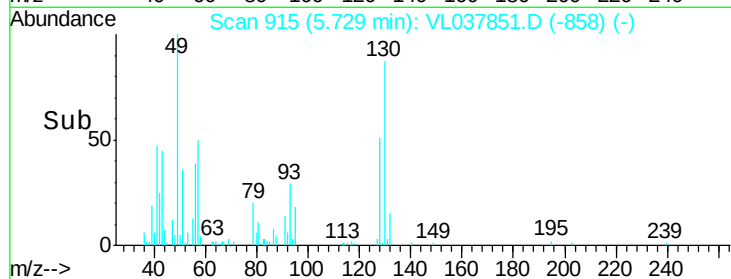
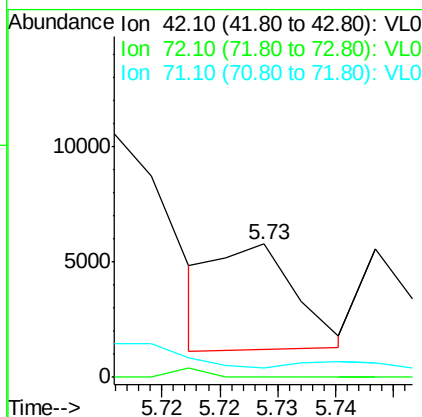
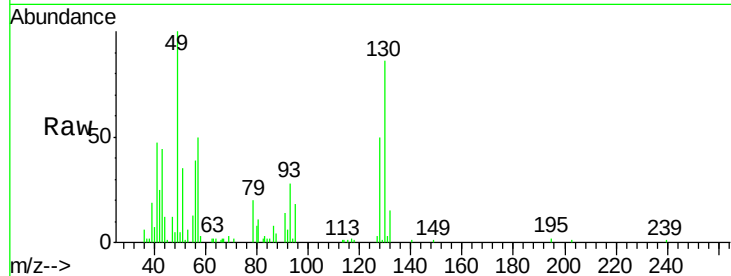
Tgt Ion: 63 Resp: 9195
 Ion Ratio Lower Upper
 63 100
 41 5.5 49.8 74.6#
 62 19.8 54.6 82.0#





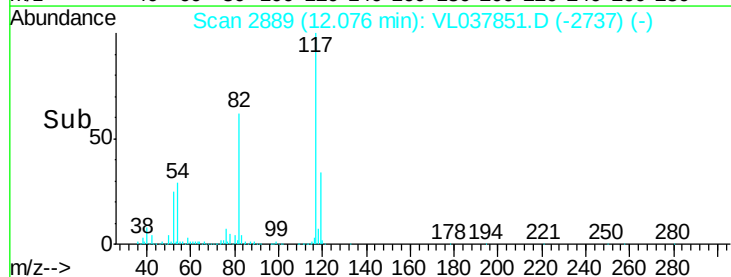
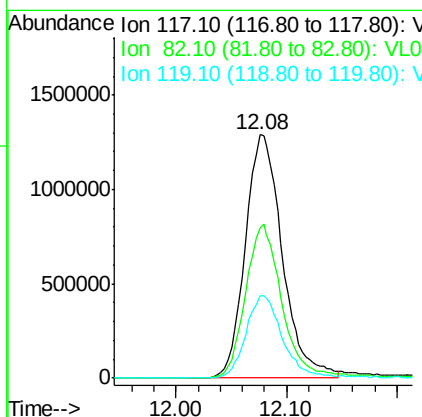
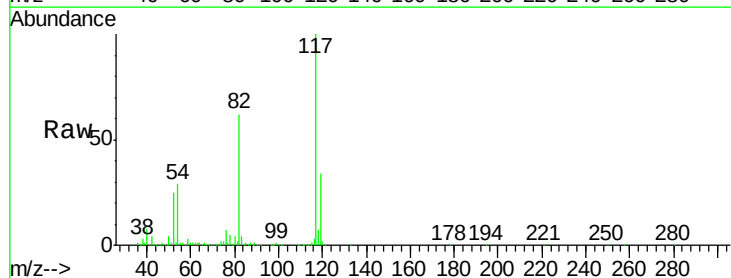
#41
Tetrahydrofuran
Concen: 0.031 ppbv
RT: 5.73
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
VSTDCCC010EC
Acq: 13 Oct 2021 11:22

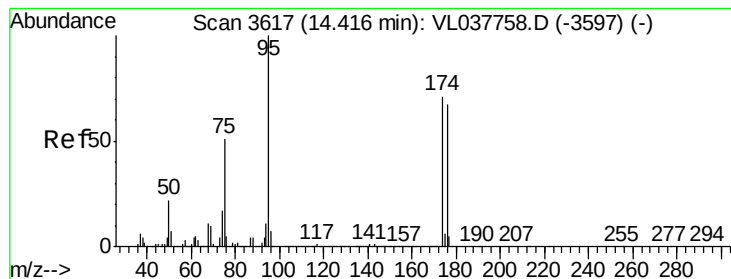
Tgt Ion: 42 Resp: 2160
Ion Ratio Lower Upper
42 100
72 3.3 31.9 47.9#
71 0.0 30.3 45.5#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2889
Delta R.T.: -0.01 min
Lab File: VL037851.D
Acq: 13 Oct 2021 11:22

Tgt Ion: 117 Resp: 3008627
Ion Ratio Lower Upper
117 100
82 63.9 52.2 78.2
119 34.6 26.0 39.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.863 ppbv

RT: 14.40 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

VSTDCCC010EC

Acq: 13 Oct 2021 11.22

Tgt Ion: 95 Resp: 2075186

Ion Ratio Lower Upper

95 100

174 74.3 57.8 86.6

175 5.8 4.7 7.1

