

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL122921\
 Data File : VL038249.D
 Acq On : 30 Dec 2021 1:52
 Operator : SY/AP
 Sample : M5252-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Quant Time: Dec 30 06:23:08 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL122121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Dec 21 17:47:08 2021
 QLast Update : Tue Dec 21 17:47:08 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	623726	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1568385	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1330809	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1078339	10.51	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.10%

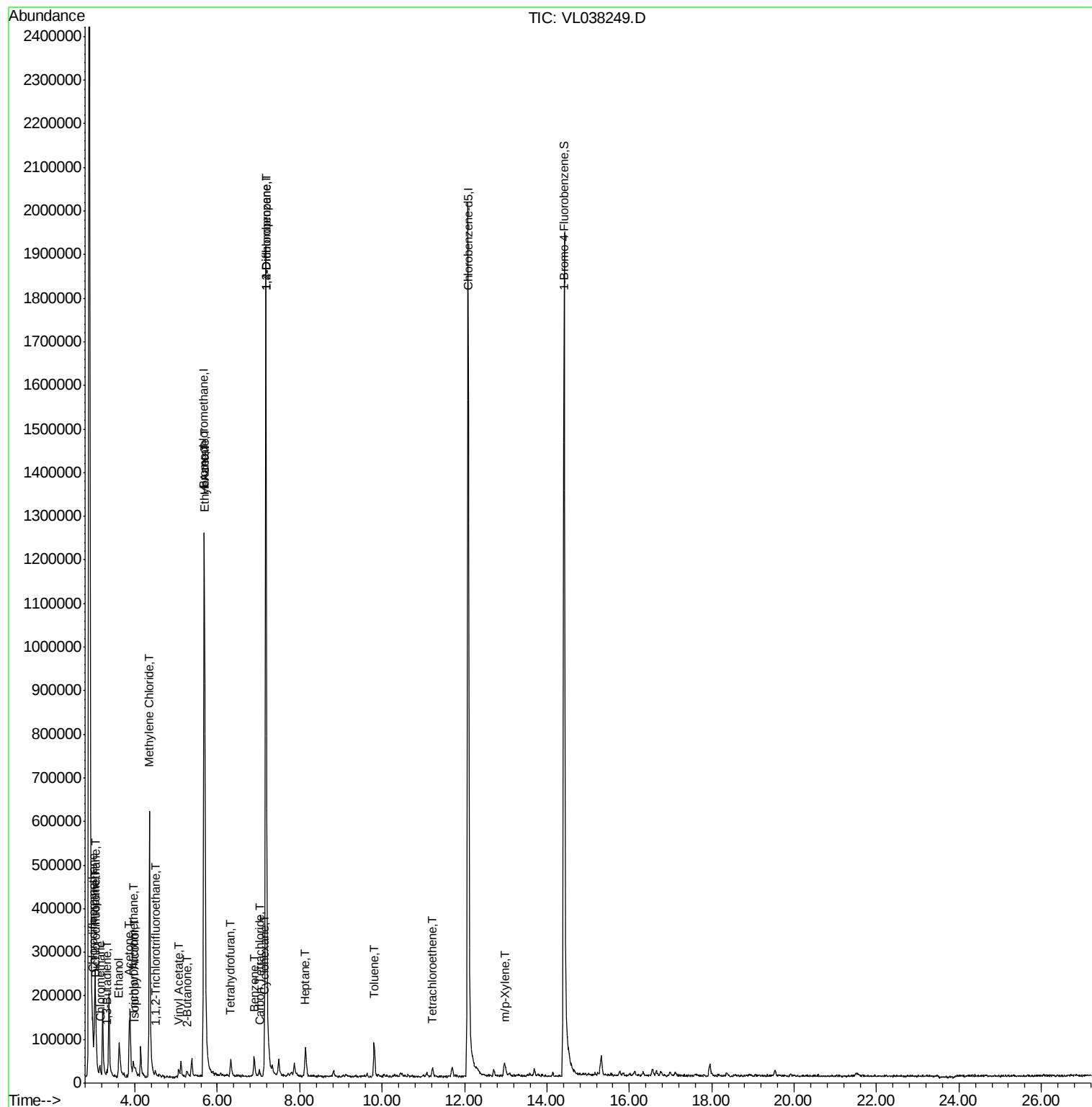
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	49833	0.424	ppbv	96
3) Chlorodifluoromethane	2.97	51	89839	0.685	ppbv #	75
4) Chloromethane	3.15	50	21094	0.464	ppbv	90
9) Propene	3.03	41	94648	2.080	ppbv	90
10) Heptane	8.13	43	4070	0.035	ppbv #	27
11) Trichlorofluoromethane	3.96	101	21423	0.198	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.50	101	4640	0.057	ppbv	100
13) Ethanol	3.62	45	118394	15.345	ppbv #	100
15) Acetone	3.86	43	190579	3.045	ppbv	91
16) 1,3-Butadiene	3.33	39	1914	0.045	ppbv #	42
19) Isopropyl Alcohol	3.99	45	13690	0.351	ppbv #	35
20) Methylene Chloride	4.35	84	255277	7.223	ppbv	92
23) Vinyl Acetate	5.07	43	4840	0.057	ppbv #	48
25) Ethyl Acetate	5.69	43	202372	1.193	ppbv #	78
26) Hexane	5.69	57	264686	3.111	ppbv #	45
30) Cyclohexane	7.14	84	2833	0.038	ppbv #	1
34) 2-Butanone	5.26	43	11207	0.238	ppbv #	48
35) Carbon Tetrachloride	7.02	117	6165	0.064	ppbv	86
36) Benzene	6.89	78	36107	0.247	ppbv	98
39) 1,2-Dichloropropane	7.18	63	429305	7.625	ppbv #	27
41) Tetrahydrofuran	6.31	42	1861	0.054	ppbv #	37
52) Tetrachloroethene	11.22	164	2661	0.049	ppbv #	81
53) Toluene	9.80	91	25459	0.151	ppbv #	1
59) m/p-Xylene	13.00	91	9043	0.051	ppbv #	30

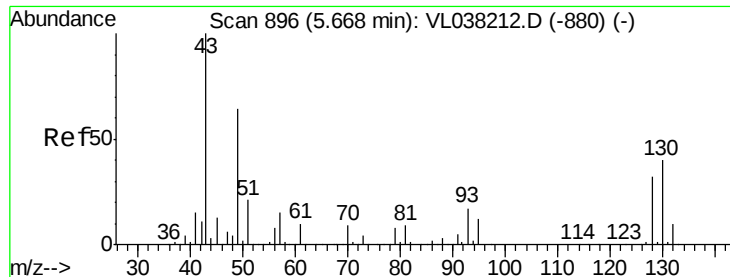
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 30 Dec 2021 1:52

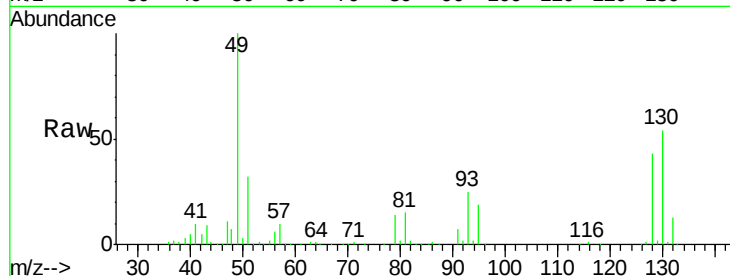
Tgt Ion: 49 Resp: 623726

Ion Ratio Lower Upper

49 100

128 45.6 26.9 80.6

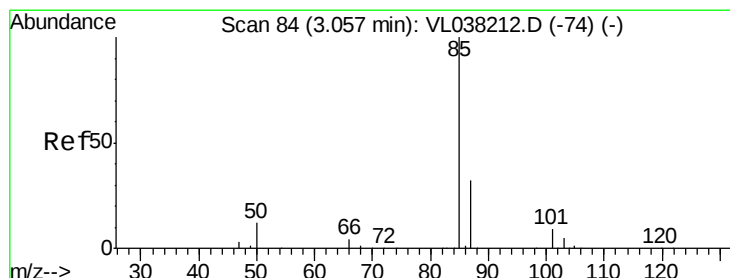
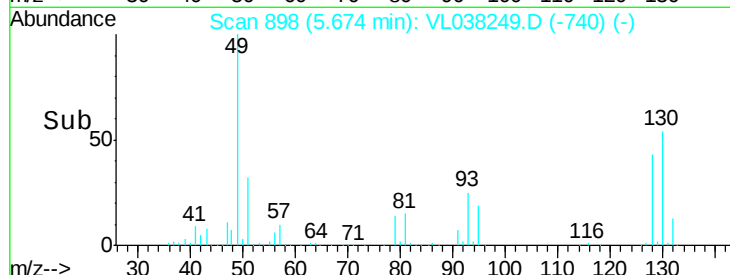
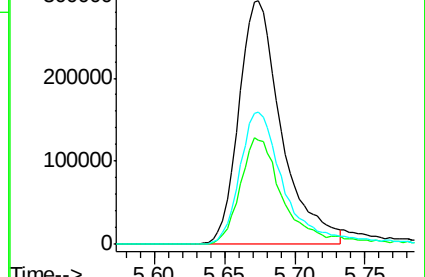
130 58.3 32.3 96.9



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: 0.424 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.00 min

Lab File: VL038249.D

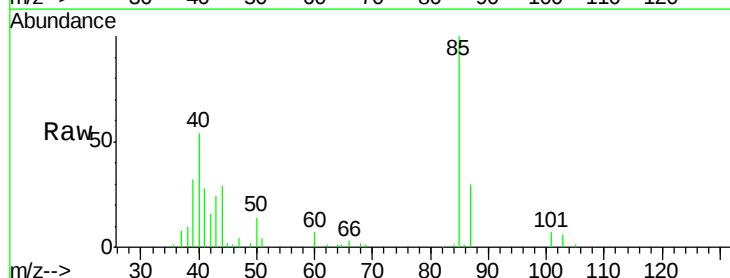
Acq: 30 Dec 2021 1:52

Tgt Ion: 85 Resp: 49833

Ion Ratio Lower Upper

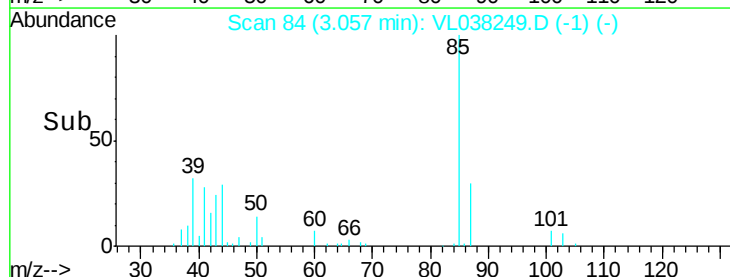
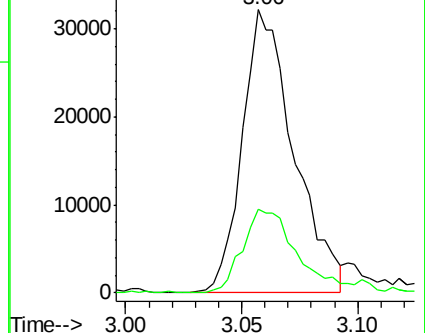
85 100

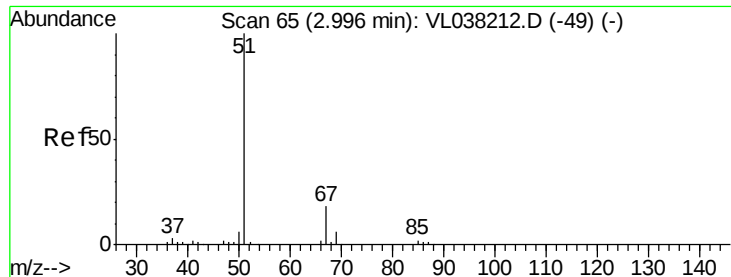
87 29.7 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.685 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

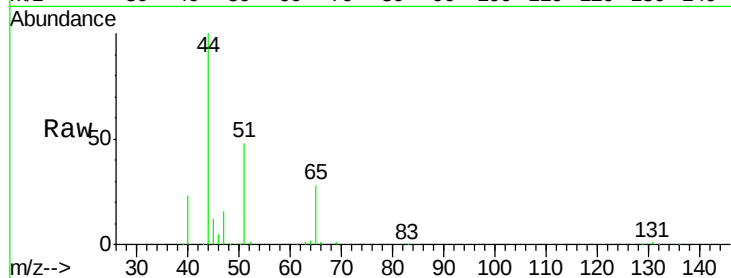
Acq: 30 Dec 2021 1:52

Tgt Ion: 51 Resp: 89839

Ion Ratio Lower Upper

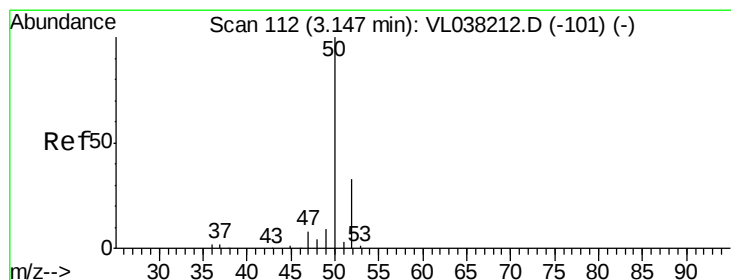
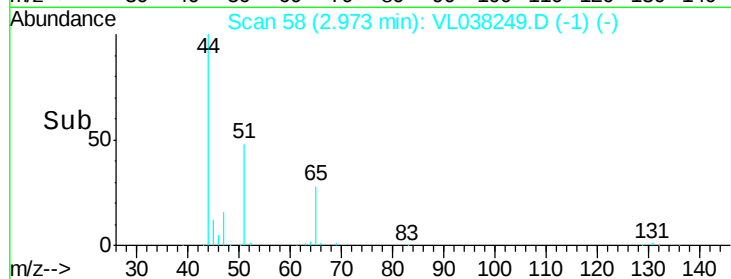
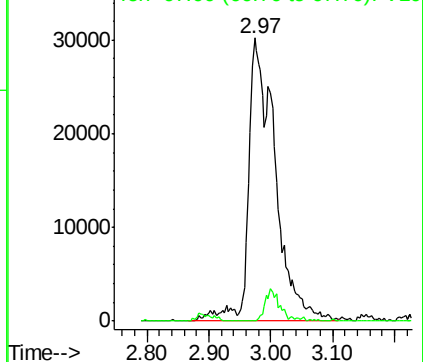
51 100

67 6.5 14.0 21.0#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.464 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.01 min

Lab File: VL038249.D

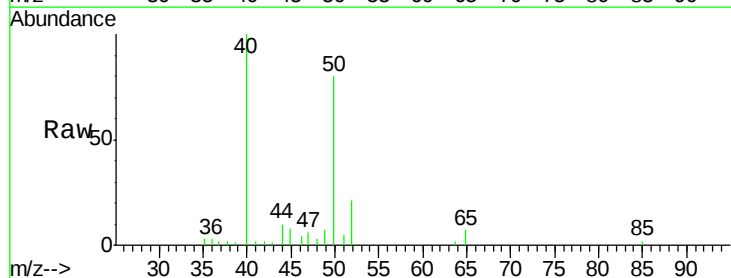
Acq: 30 Dec 2021 1:52

Tgt Ion: 50 Resp: 21094

Ion Ratio Lower Upper

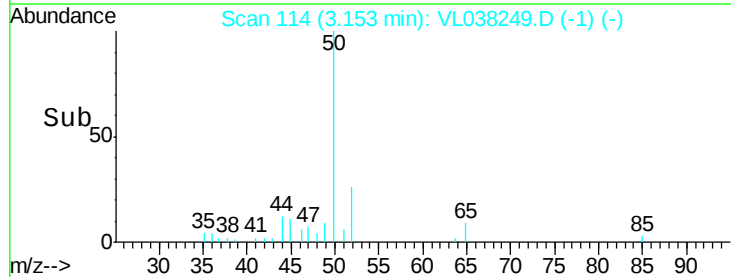
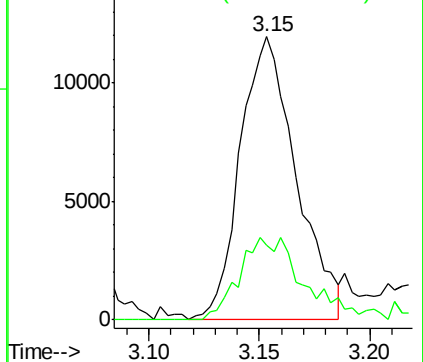
50 100

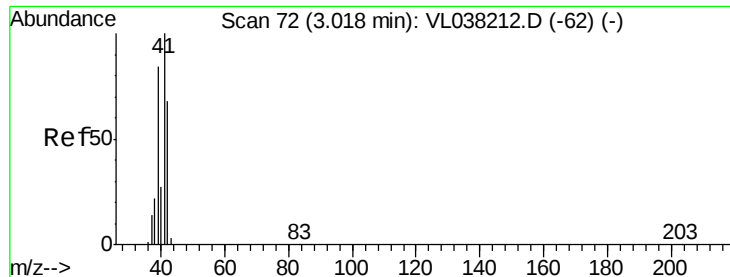
52 26.9 26.2 39.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.080 ppbv

RT: 3.03 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

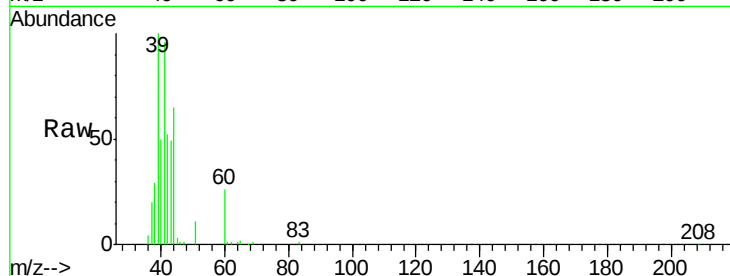
Acq: 30 Dec 2021 1:52

Tgt Ion: 41 Resp: 94648

Ion Ratio Lower Upper

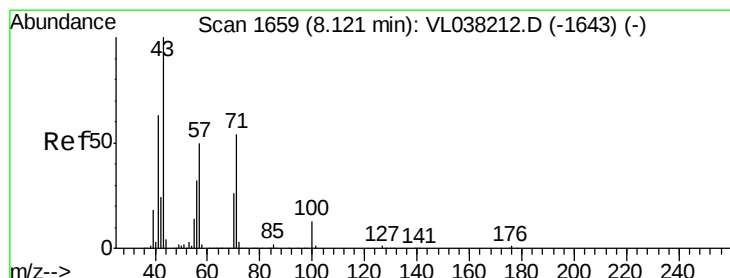
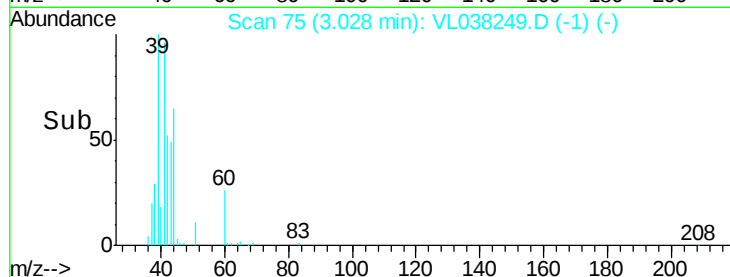
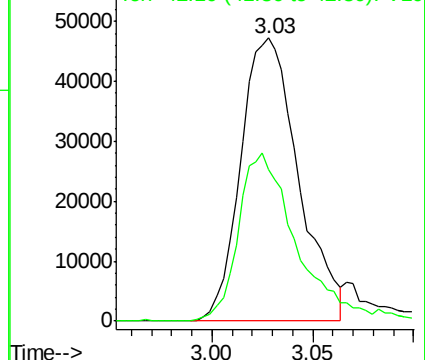
41 100

42 61.2 55.5 83.3



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.035 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. 0.01 min

Lab File: VL038249.D

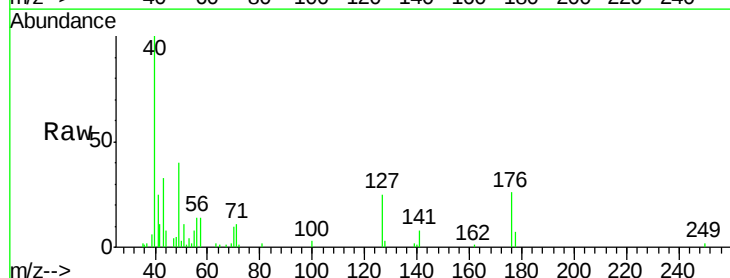
Acq: 30 Dec 2021 1:52

Tgt Ion: 43 Resp: 4070

Ion Ratio Lower Upper

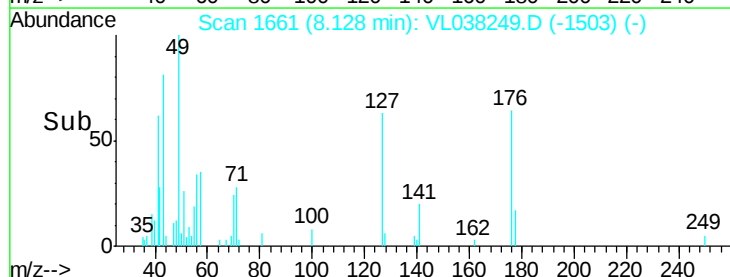
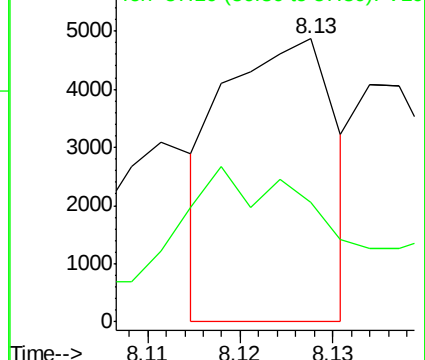
43 100

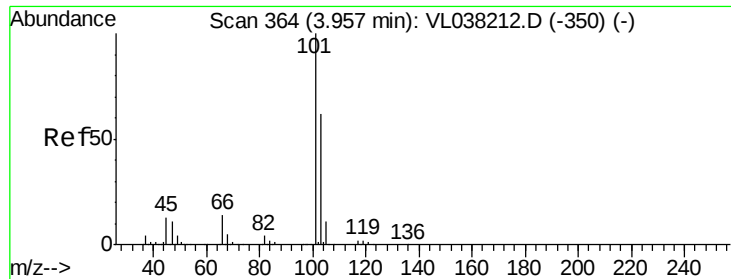
57 0.0 40.3 60.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0

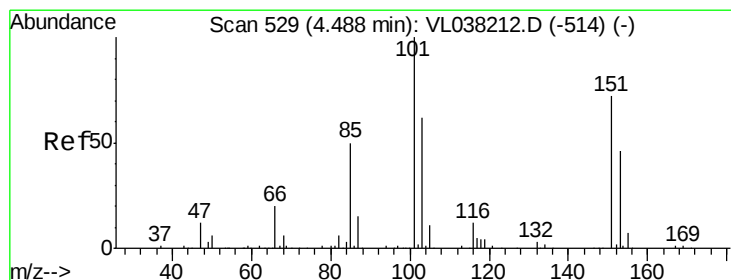
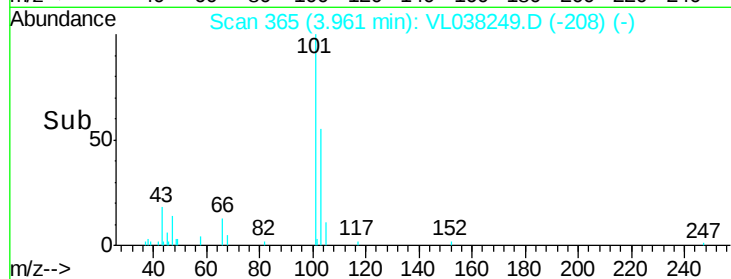
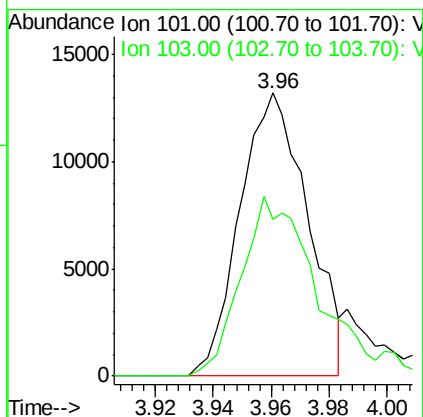
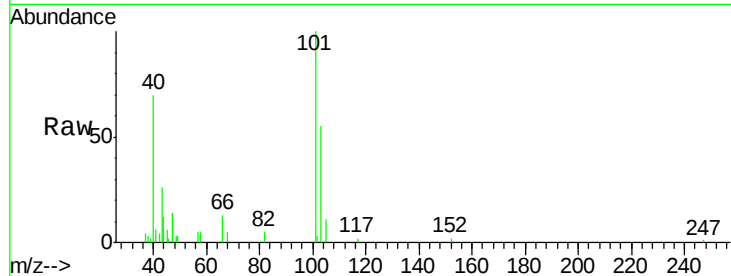
Ion 57.10 (56.80 to 57.80): VL0





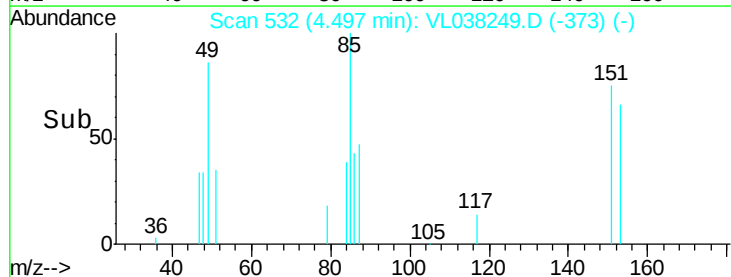
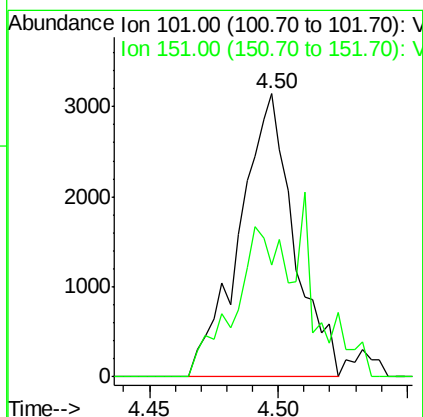
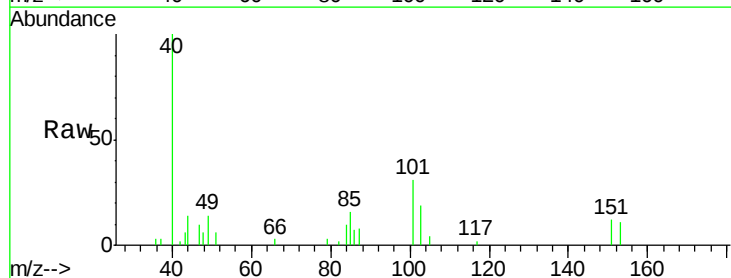
#11
 Trichlorofluoromethane
 Concen: 0.198 ppbv
 RT: 3.96 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 30 Dec 2021 1:52

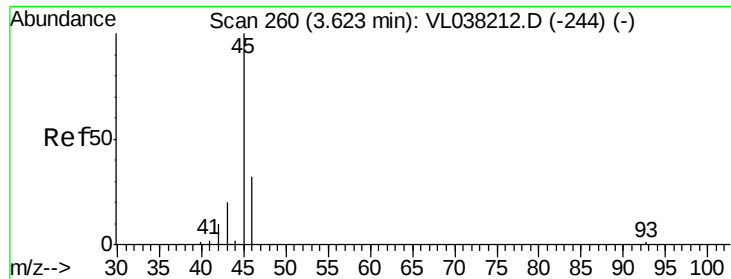
Tgt Ion:101 Resp: 21423
 Ion Ratio Lower Upper
 101 100
 103 55.4 49.9 74.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.057 ppbv
 RT: 4.50 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VL038249.D
 Acq: 30 Dec 2021 1:52

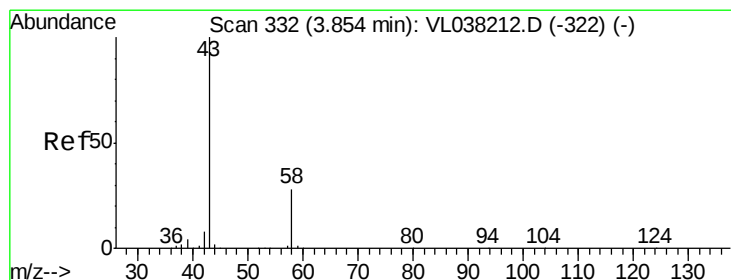
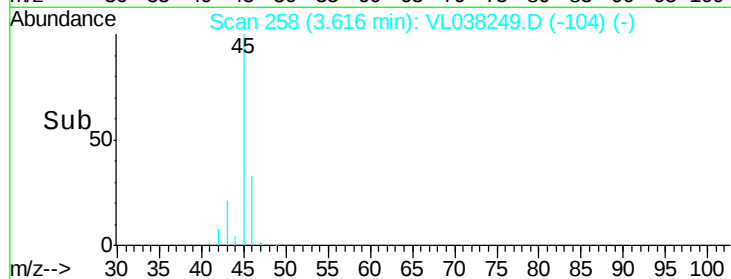
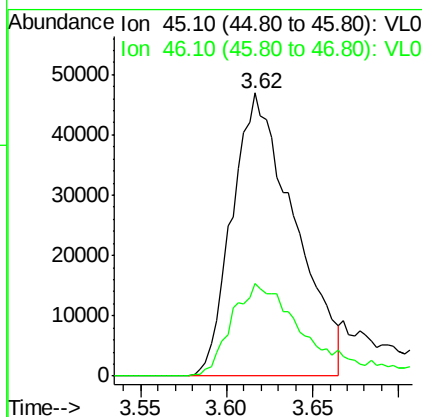
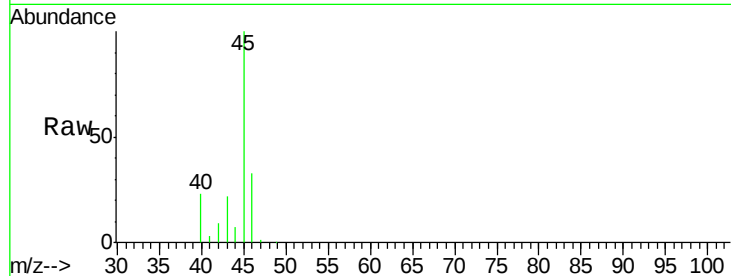
Tgt Ion:101 Resp: 4640
 Ion Ratio Lower Upper
 101 100
 151 73.6 58.6 87.8





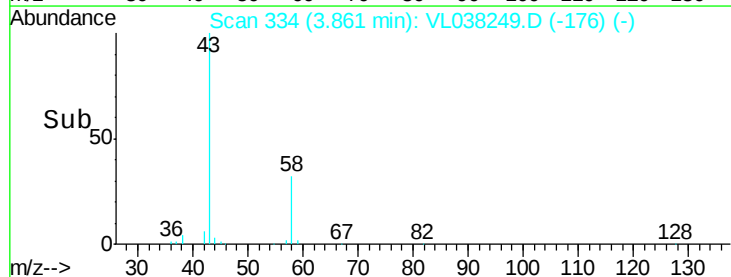
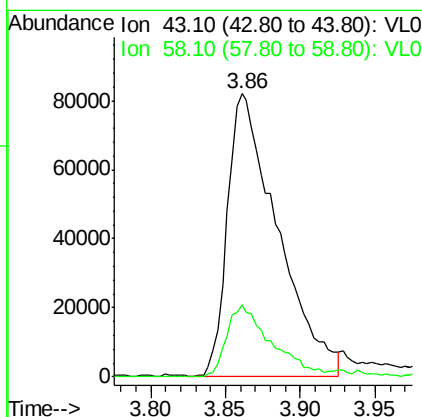
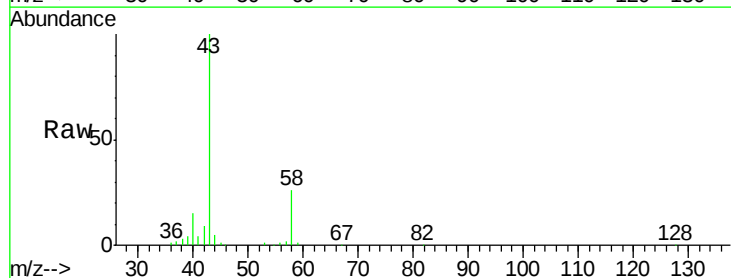
#13
Ethanol
Concen: 15.345 ppbv
RT: 3.62
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 30 Dec 2021 1:52

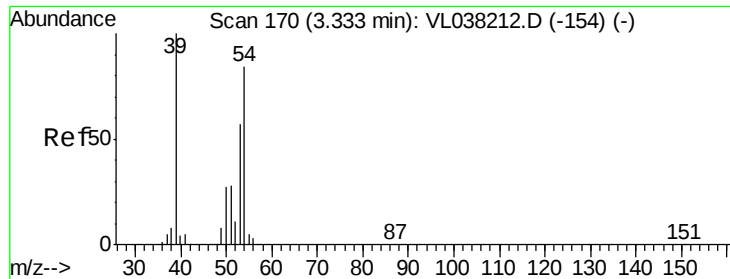
Tgt Ion: 45 Resp: 118394
Ion Ratio Lower Upper
45 100
46 39.6 0.0 0.0#



#15
Acetone
Concen: 3.045 ppbv
RT: 3.86 min Scan# 334
Delta R.T. 0.01 min
Lab File: VL038249.D
Acq: 30 Dec 2021 1:52

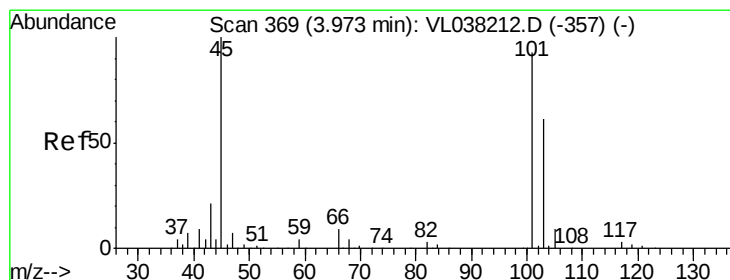
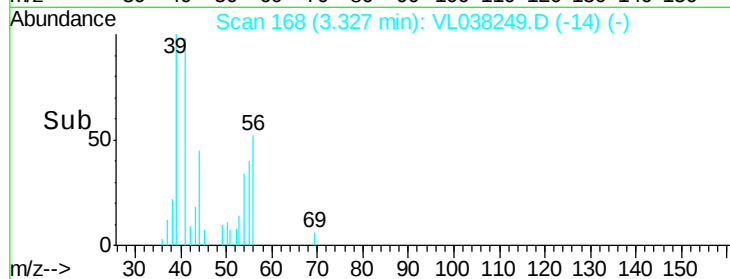
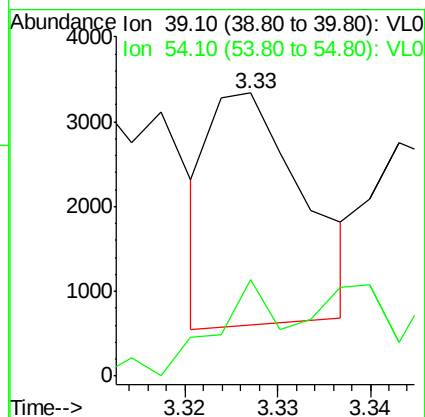
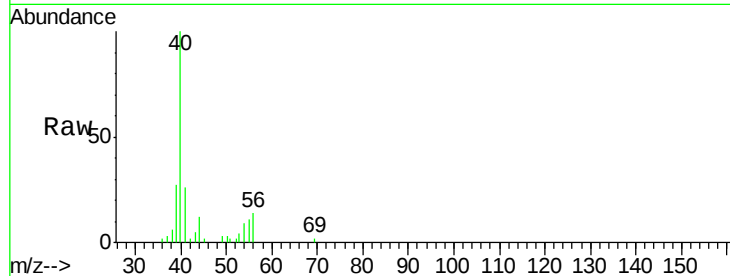
Tgt Ion: 43 Resp: 190579
Ion Ratio Lower Upper
43 100
58 24.4 23.3 34.9





#16
 1,3-Butadiene
 Concen: 0.045 ppbv
 RT: 3.33
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 30 Dec 2021 1:52

Tgt Ion: 39 Resp: 1914
 Ion Ratio Lower Upper
 39 100
 54 129.1 62.9 94.3#



#19
 Isopropyl Alcohol
 Concen: 0.351 ppbv
 RT: 3.99 min Scan# 375
 Delta R.T. 0.02 min
 Lab File: VL038249.D
 Acq: 30 Dec 2021 1:52

Tgt Ion: 45 Resp: 13690
 Ion Ratio Lower Upper
 45 100
 58 0.0 32.4 48.6#

