

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020122\
 Data File : VL038323.D
 Acq On : 1 Feb 2022 16:12
 Operator : SY/AP
 Sample : N1341-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-1

Quant Time: Feb 02 05:14:11 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 24 14:12:48 2022
 QLast Update : Mon Jan 24 14:12:48 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	755430	10.00	ppbv	-0.04
33) 1,4-Difluorobenzene	7.14	114	2353026	10.00	ppbv	-0.04
55) Chlorobenzene-d5	12.04	117	2009866	10.00	ppbv	-0.05

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.37	95	1630571	10.69	ppbv	-0.05
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.90%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	3.03	85	17797	0.111 ppbv	91
3) Chlorodifluoromethane	3.34	51	748133	4.975 ppbv #	59
4) Chloromethane	3.19	50	19735	0.381 ppbv #	74
9) Propene	3.19	41	955910	19.526 ppbv	96
10) Heptane	8.08	43	92509	0.734 ppbv	95
11) Trichlorofluoromethane	3.93	101	28312	0.226 ppbv	95
12) 1,1,2-Trichlorotrifluoroet	4.46	101	3376	0.036 ppbv #	38
13) Ethanol	3.58	45	192538	36.636 ppbv	99
15) Acetone	3.82	43	4784640	71.849 ppbv	97
16) 1,3-Butadiene	3.34	39	7878756	164.870 ppbv #	13
17) tert-Butyl alcohol	4.27	59	239346	3.275 ppbv	98
19) Isopropyl Alcohol	3.94	45	103693	2.489 ppbv #	91
20) Methylene Chloride	4.32	84	52812	1.364 ppbv	95
21) Allyl Chloride	4.31	41	2256	0.038 ppbv #	1
23) Vinyl Acetate	5.03	43	149735	1.546 ppbv #	1
25) Ethyl Acetate	5.66	43	2306336	12.370 ppbv #	77
26) Hexane	5.66	57	3292910	37.971 ppbv #	42
27) Carbon Disulfide	4.53	76	38946	0.384 ppbv #	91
28) Methyl tert-Butyl Ether	5.01	73	10022	0.111 ppbv #	53
29) Chloroform	5.72	83	5472	0.039 ppbv	99
30) Cyclohexane	7.09	84	13146	0.174 ppbv #	1
32) 1,1,1-Trichloroethane	6.47	97	7486	0.053 ppbv #	24
34) 2-Butanone	5.21	43	220503	2.866 ppbv	95
36) Benzene	6.85	78	188084	0.904 ppbv	97
37) 1,2-Dichloroethane	6.28	62	8926	0.075 ppbv #	87
39) 1,2-Dichloropropane	7.14	63	578502	6.856 ppbv #	25
41) Tetrahydrofuran	6.28	42	614364	11.877 ppbv #	38
44) 2,2,4-Trimethylpentane	7.83	57	43078	0.117 ppbv #	42
50) 4-Methyl-2-Pentanone	8.72	43	38224	0.278 ppbv	96
51) 2-Hexanone	10.06	43	73463	1.215 ppbv #	53
53) Toluene	9.76	91	353608	1.535 ppbv	98
57) Chlorobenzene	12.10	112	4856	0.030 ppbv #	58
58) Ethyl Benzene	12.66	91	84501	0.286 ppbv	99
59) m/p-Xylene	12.95	91	45395	0.180 ppbv #	32
60) o-Xylene	13.64	91	91023	0.388 ppbv	98
61) Styrene	13.47	104	8784	0.080 ppbv #	26
63) 1,1,2,2-Tetrachloroethane	13.64	83	18494	0.107 ppbv #	44
66) Benzyl Chloride	16.95	91	4191	0.358 ppbv #	1
69) p-Isopropyltoluene	17.61	119	646685	2.360 ppbv	99
70) n-Butylbenzene	18.66	91	1515170	5.646 ppbv #	79
71) 2-Chlorotoluene	15.51	91	21926	0.095 ppbv #	44

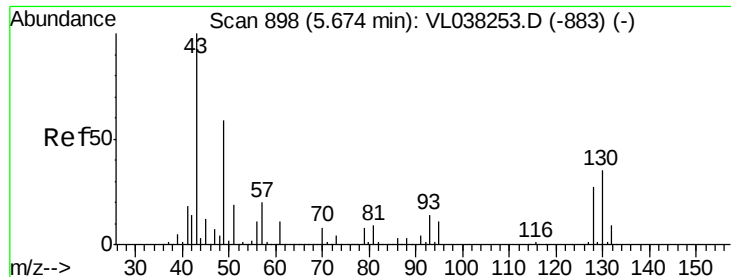
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020122\
Data File : VL038323.D
Acq On : 1 Feb 2022 16:12
Operator : SY/AP
Sample : N1341-01
Misc : 400mL/MSVOA_L
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SVP-1

Quant Time: Feb 02 05:14:11 2022
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 24 14:12:48 2022
QLast Update : Mon Jan 24 14:12:48 2022
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	15.79	105	28506	0.116	ppbv #	81
73) 1,3,5-Trimethylbenzene	15.95	105	12209	0.055	ppbv	95
74) 1,2,4-Trimethylbenzene	16.72	105	55518	0.239	ppbv #	70
79) Naphthalene	22.13	128	8177	0.075	ppbv	97
80) Naphthalene,2-methyl-	24.93	142	2004	0.170	ppbv #	75

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SVP-1

Acq: 1 Feb 2022 16:12

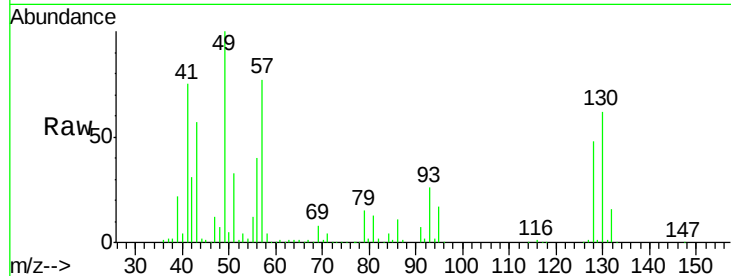
Tgt Ion: 49 Resp: 755430

Ion Ratio Lower Upper

49 100

128 51.5 24.5 73.5

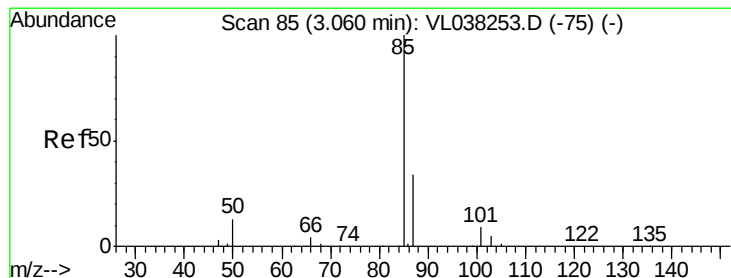
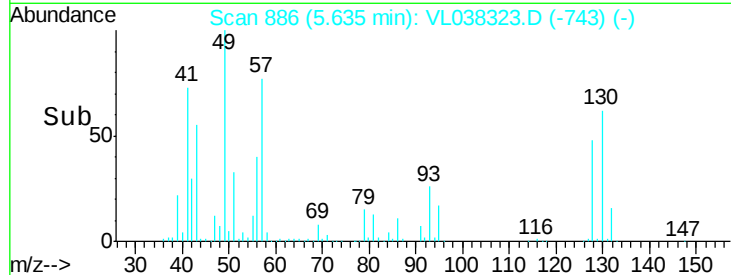
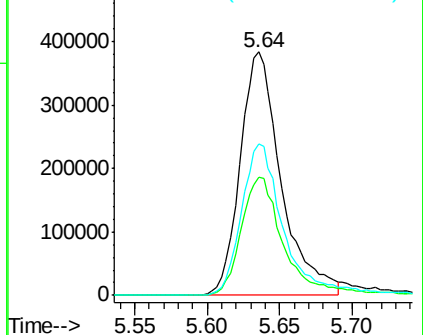
130 65.7 30.1 90.5



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: 0.111 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.03 min

Lab File: VL038323.D

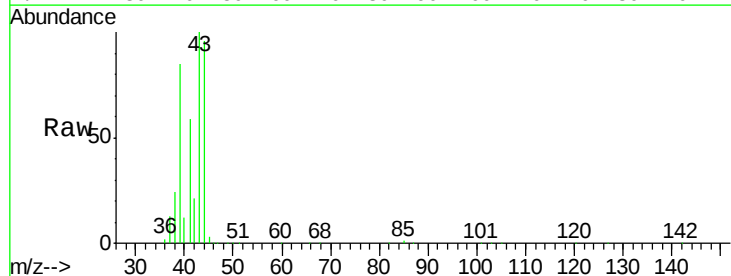
Acq: 1 Feb 2022 16:12

Tgt Ion: 85 Resp: 17797

Ion Ratio Lower Upper

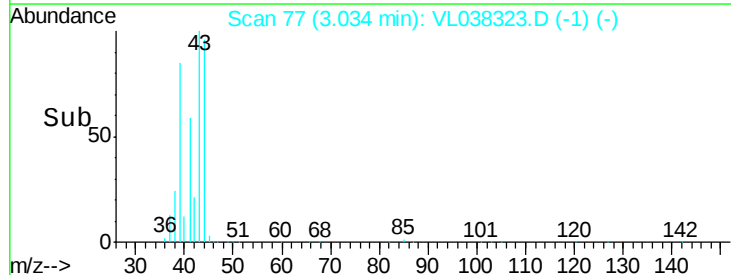
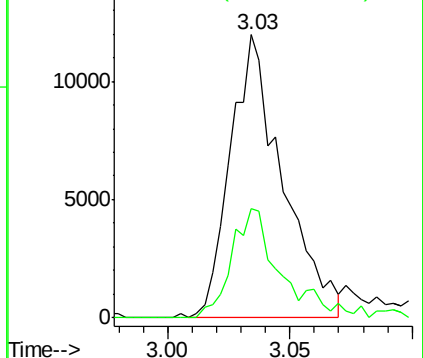
85 100

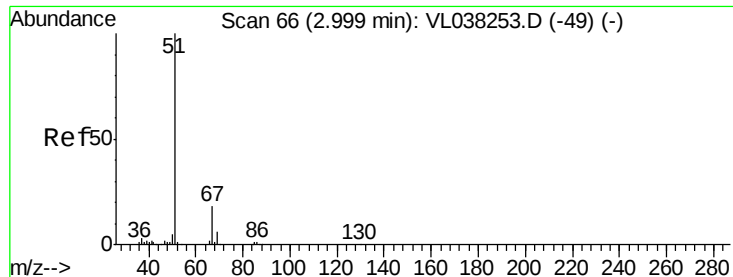
87 38.8 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 4.975 ppbv

RT: 3.34 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

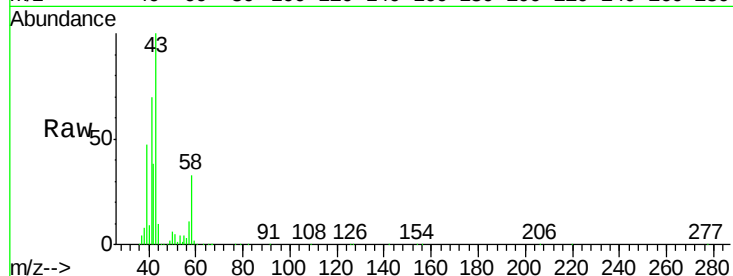
Acq: 1 Feb 2022 16:12 SVP-1

Tgt Ion: 51 Resp: 748133

Ion Ratio Lower Upper

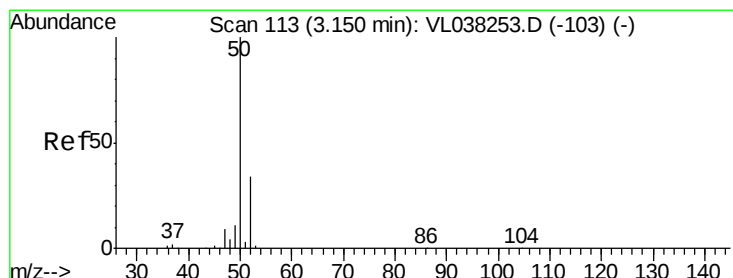
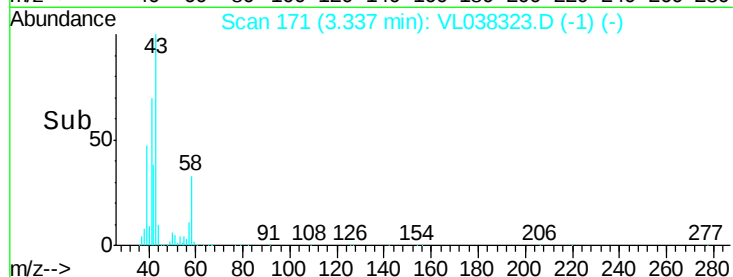
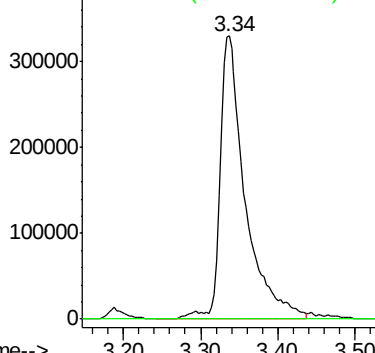
51 100

67 0.0 14.4 21.6#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.381 ppbv

RT: 3.19 min Scan# 124

Delta R.T. 0.04 min

Lab File: VL038323.D

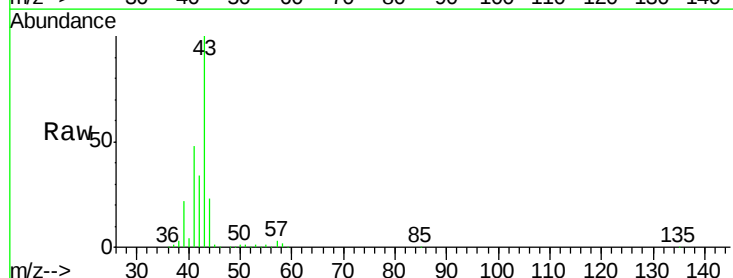
Acq: 1 Feb 2022 16:12

Tgt Ion: 50 Resp: 19735

Ion Ratio Lower Upper

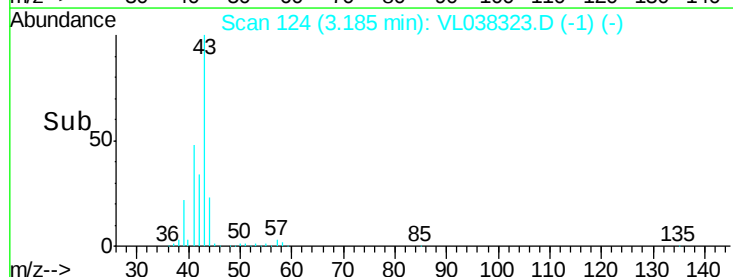
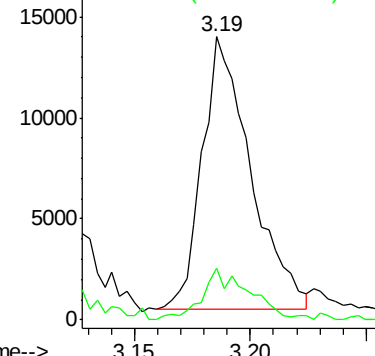
50 100

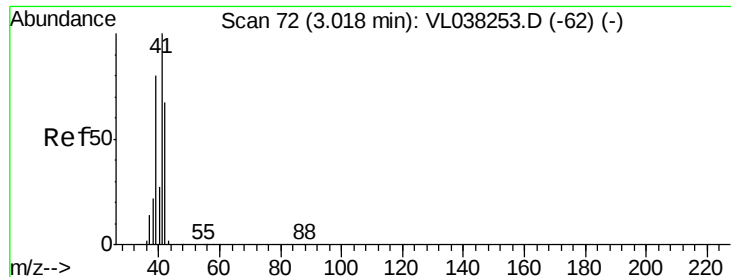
52 18.8 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 19.526 ppbv

RT: 3.19 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

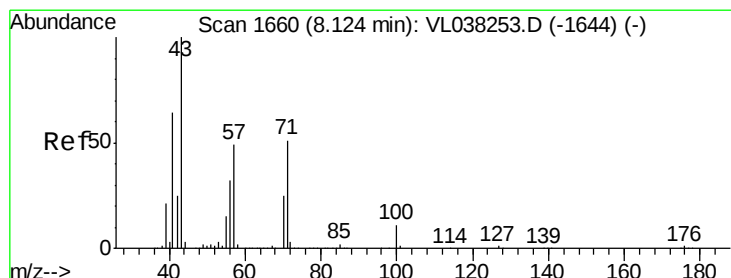
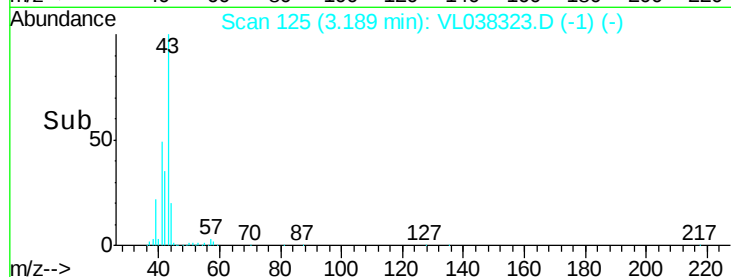
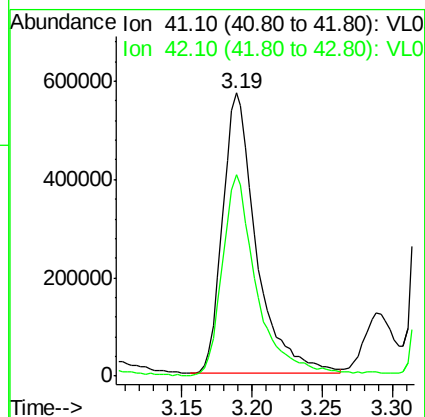
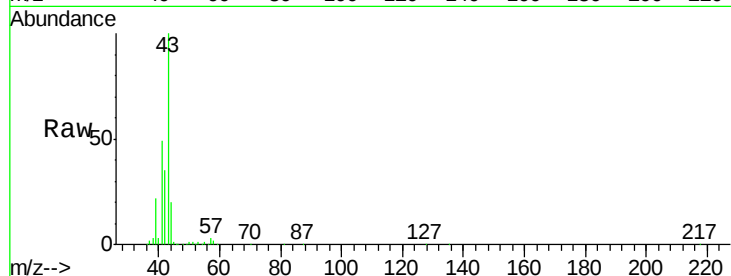
Acq: 1 Feb 2022 16:12 SVP-1

Tgt Ion: 41 Resp: 955910

Ion Ratio Lower Upper

41 100

42 72.1 54.9 82.3



#10

Heptane

Concen: 0.734 ppbv

RT: 8.08 min Scan# 1647

Delta R.T. -0.04 min

Lab File: VL038323.D

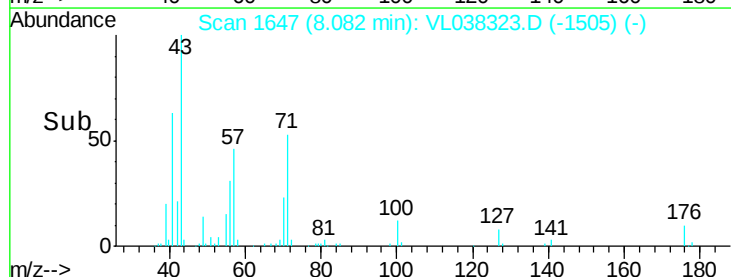
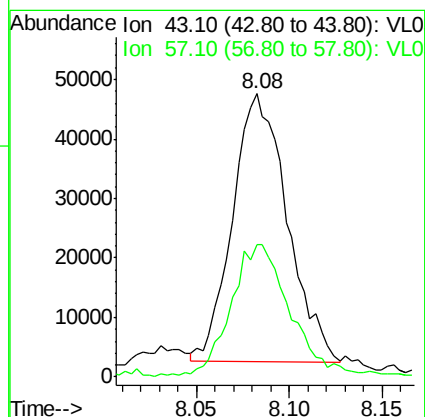
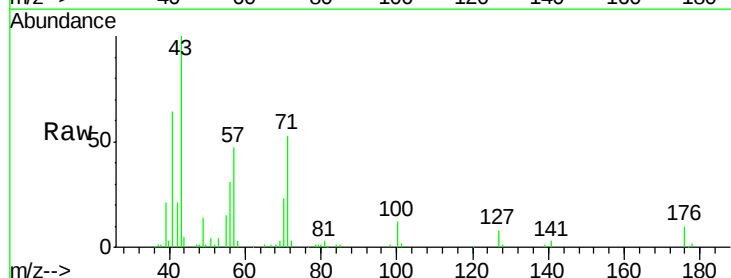
Acq: 1 Feb 2022 16:12

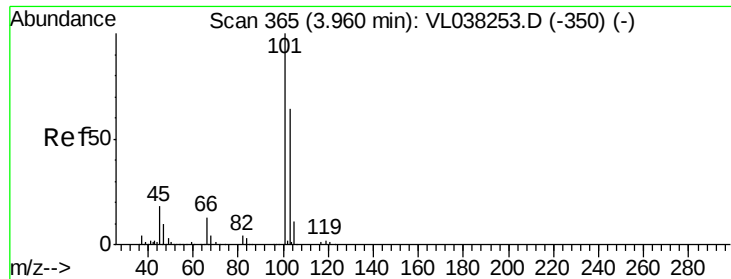
Tgt Ion: 43 Resp: 92509

Ion Ratio Lower Upper

43 100

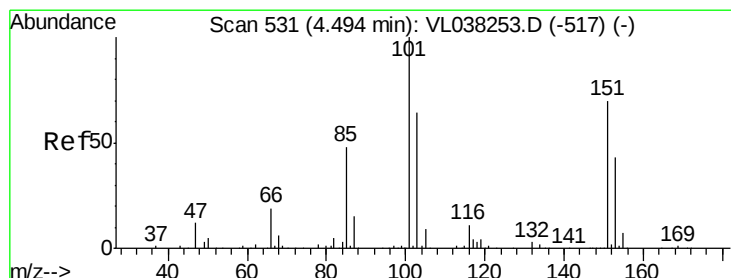
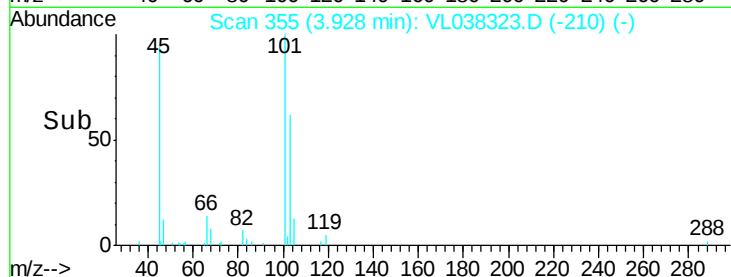
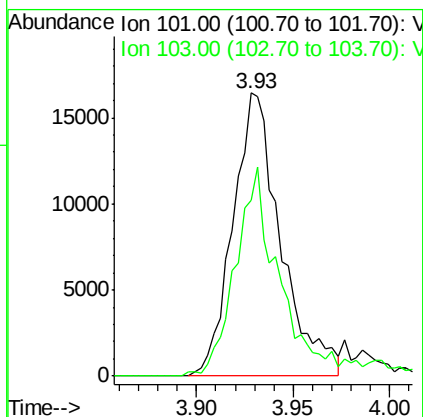
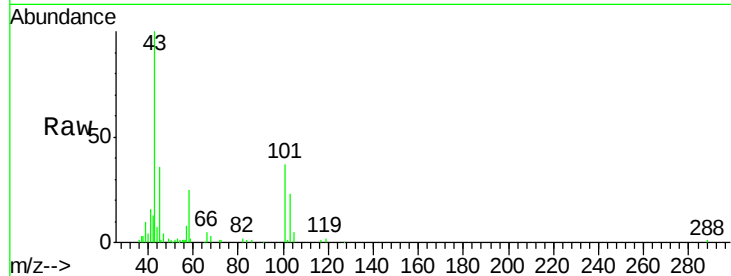
57 52.8 39.5 59.3





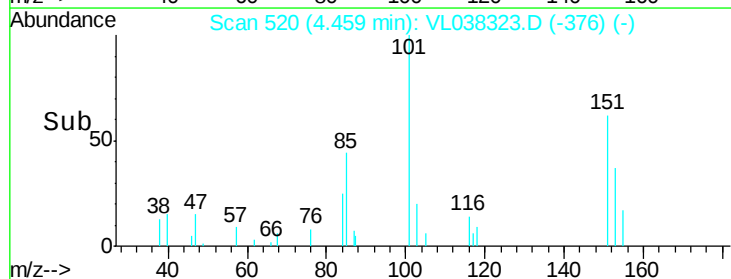
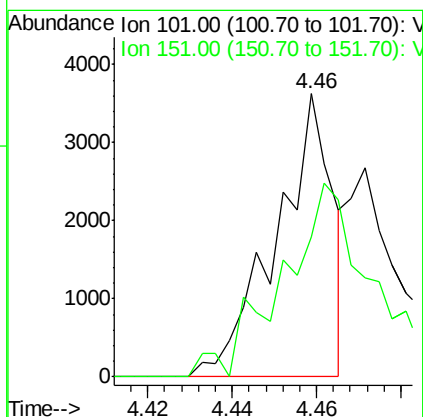
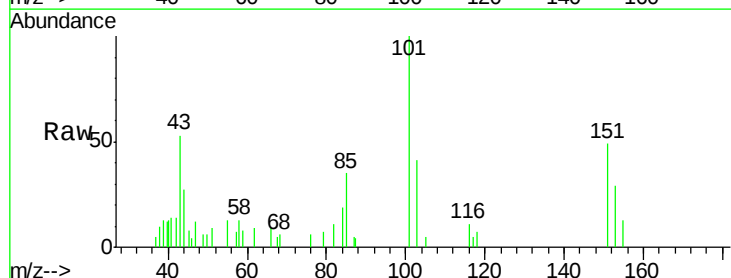
#11
 Trichlorofluoromethane
 Concen: 0.226 ppbv
 RT: 3.93
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SVP-1
 Acq: 1 Feb 2022 16:12

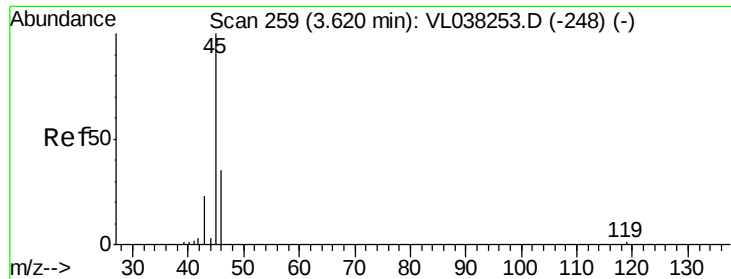
Tgt Ion:101 Resp: 28312
 Ion Ratio Lower Upper
 101 100
 103 60.5 51.2 76.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.036 ppbv
 RT: 4.46 min Scan# 520
 Delta R.T. -0.04 min
 Lab File: VL038323.D
 Acq: 1 Feb 2022 16:12

Tgt Ion:101 Resp: 3376
 Ion Ratio Lower Upper
 101 100
 151 119.8 55.3 82.9#





#13

Ethanol

Concen: 36.636 ppbv

RT: 3.58 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

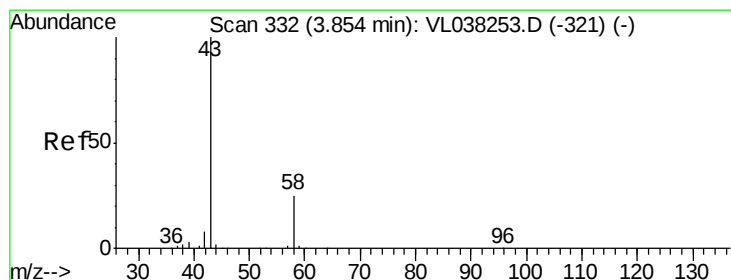
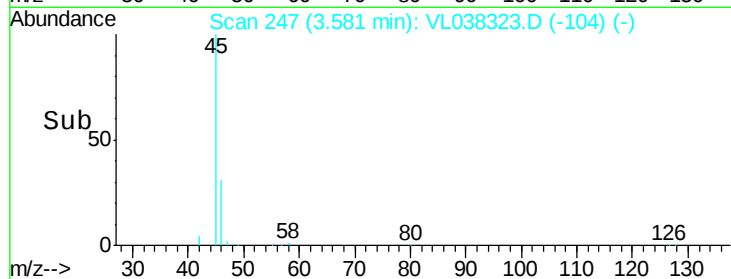
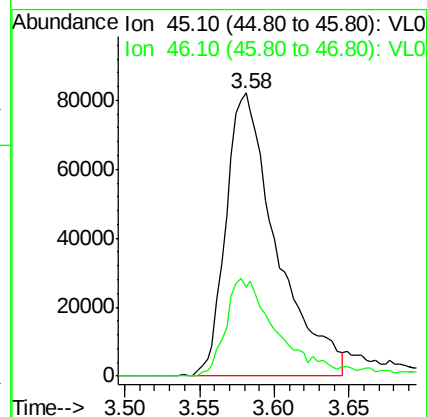
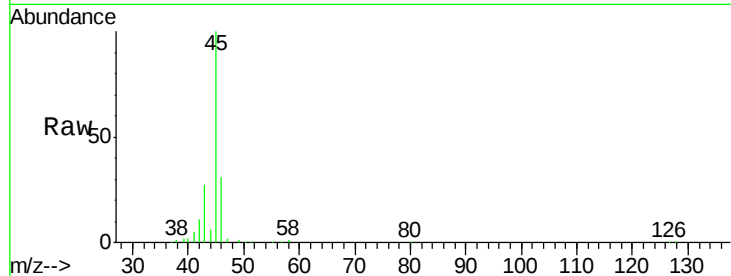
Acq: 1 Feb 2022 16:12 SVP-1

Tgt Ion: 45 Resp: 192538

Ion Ratio Lower Upper

45 100

46 38.1 15.4 61.6



#15

Acetone

Concen: 71.849 ppbv

RT: 3.82 min Scan# 322

Delta R.T. -0.03 min

Lab File: VL038323.D

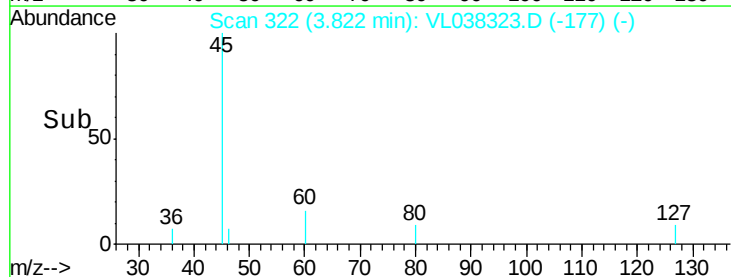
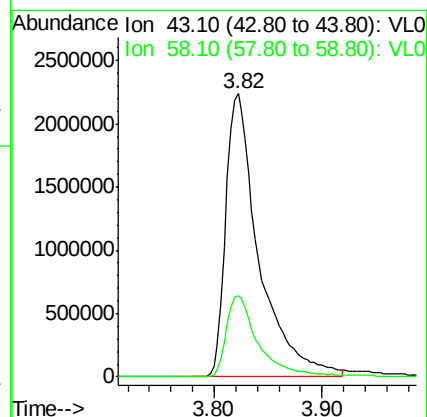
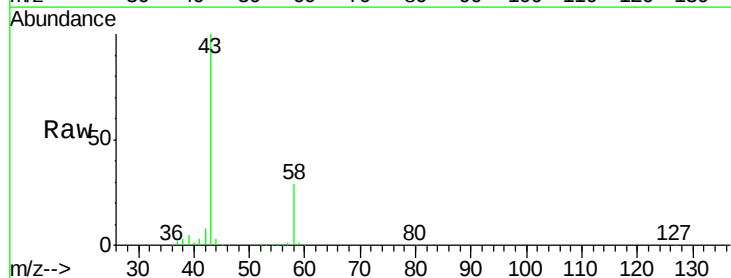
Acq: 1 Feb 2022 16:12

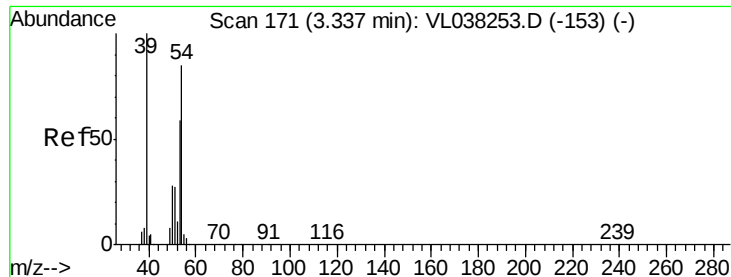
Tgt Ion: 43 Resp: 4784640

Ion Ratio Lower Upper

43 100

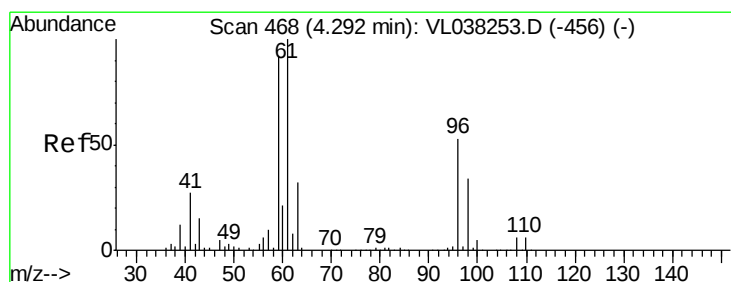
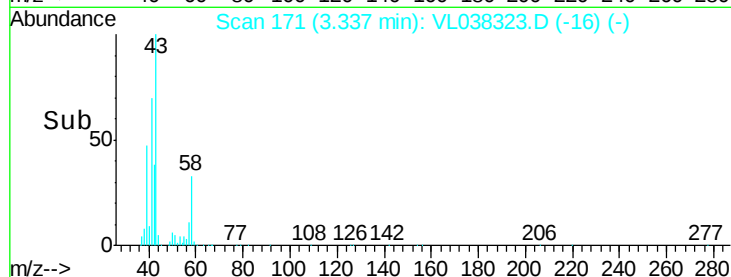
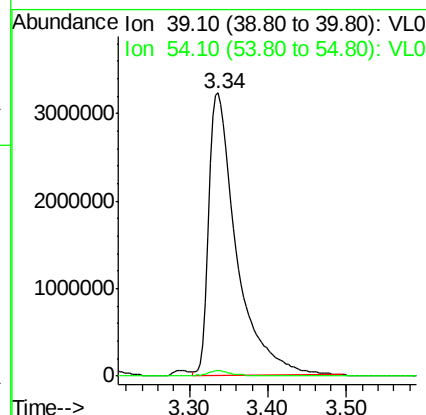
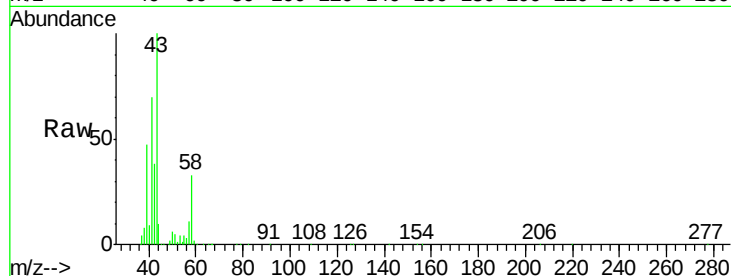
58 28.6 21.5 32.3





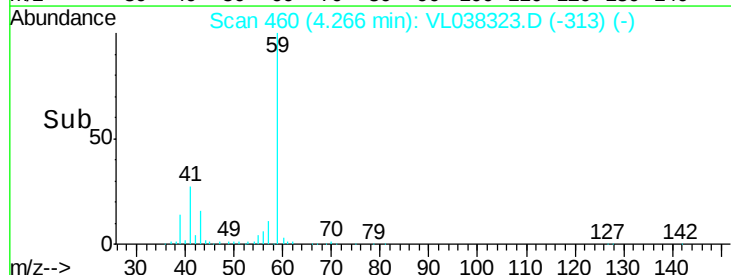
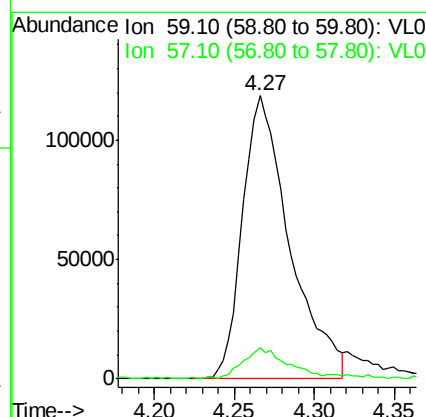
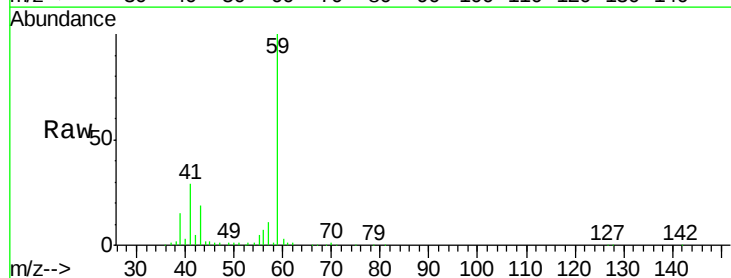
#16
 1,3-Butadiene
 Concen: 164.870 ppbv
 RT: 3.34
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SVP-1
 Acq: 1 Feb 2022 16:12

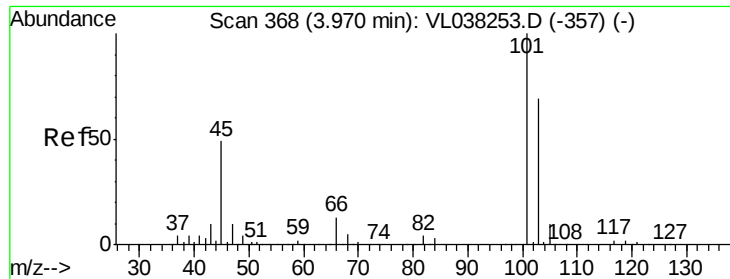
Tgt Ion: 39 Resp: 7878756
 Ion Ratio Lower Upper
 39 100
 54 2.0 62.6 94.0#



#17
 tert-Butyl alcohol
 Concen: 3.275 ppbv
 RT: 4.27 min Scan# 460
 Delta R.T. -0.03 min
 Lab File: VL038323.D
 Acq: 1 Feb 2022 16:12

Tgt Ion: 59 Resp: 239346
 Ion Ratio Lower Upper
 59 100
 57 12.1 9.2 13.8





#19

Isopropyl Alcohol

Concen: 2.489 ppbv

RT: 3.94 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

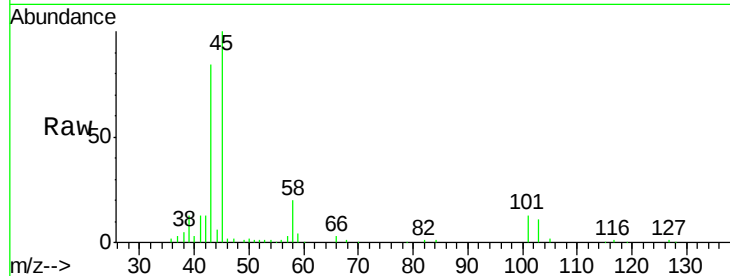
Acq: 1 Feb 2022 16:12 SVP-1

Tgt Ion: 45 Resp: 103693

Ion Ratio Lower Upper

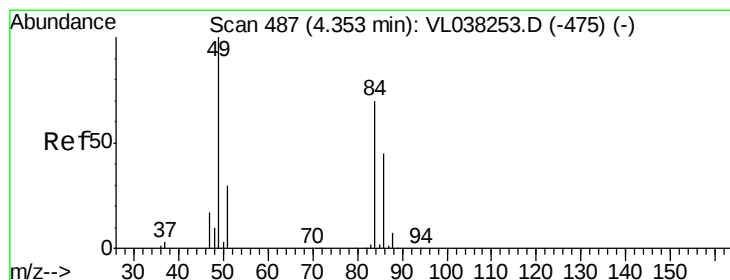
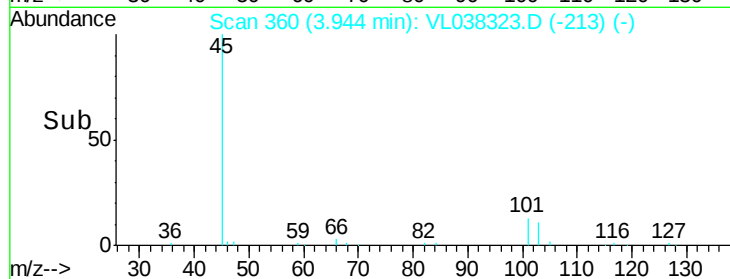
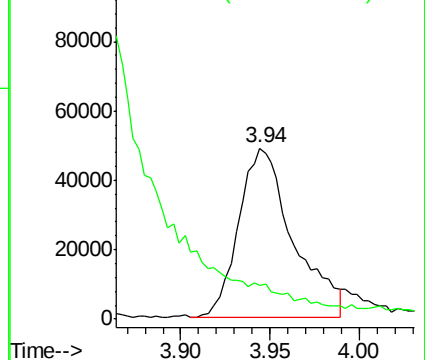
45 100

58 0.0 2.3 3.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 1.364 ppbv

RT: 4.32 min Scan# 477

Delta R.T. -0.03 min

Lab File: VL038323.D

Acq: 1 Feb 2022 16:12

Tgt Ion: 84 Resp: 52812

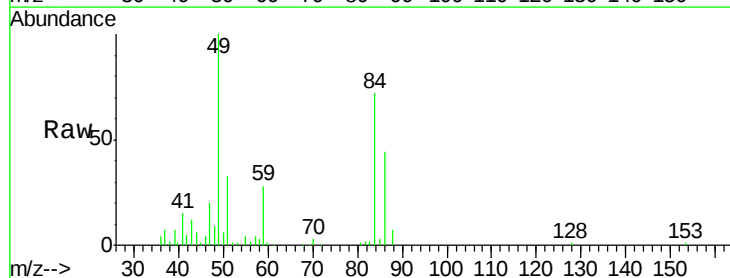
Ion Ratio Lower Upper

84 100

49 136.6 115.0 172.6

51 41.9 35.0 52.6

86 61.1 51.4 77.0

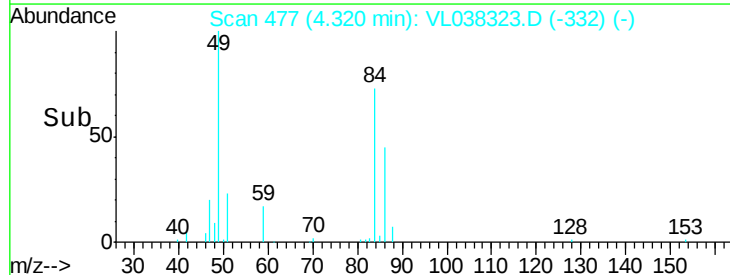
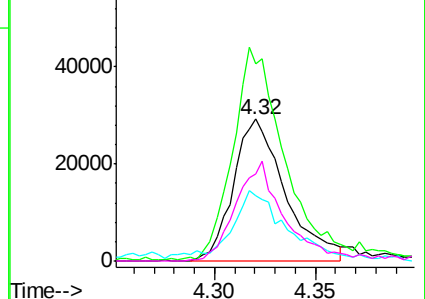


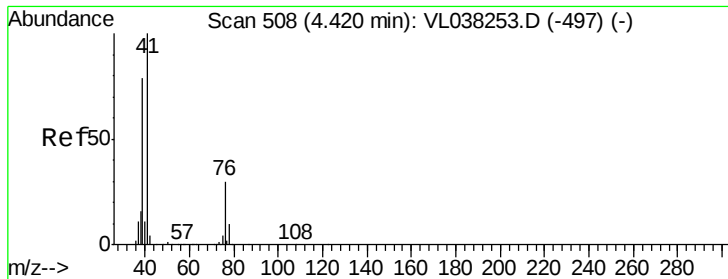
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

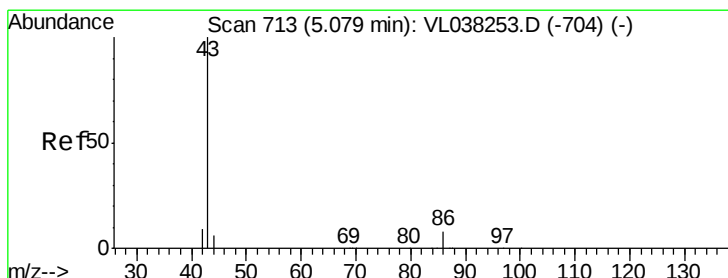
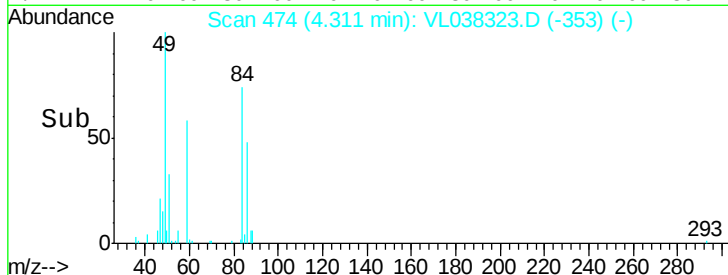
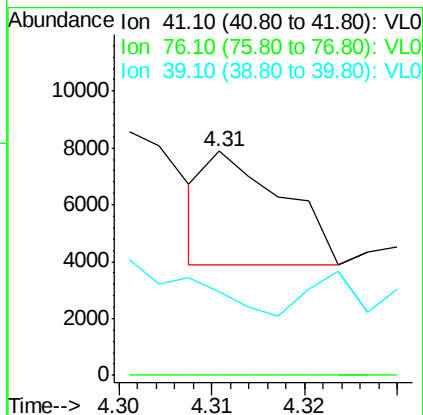
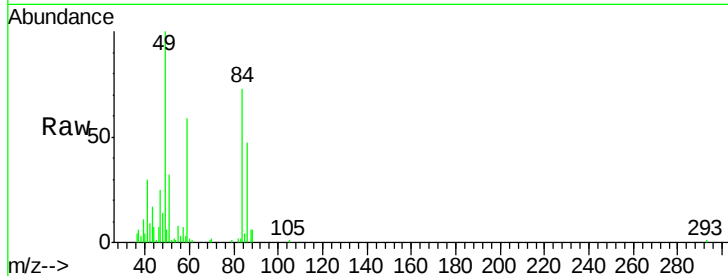
Ion 86.00 (85.70 to 86.70): VL0





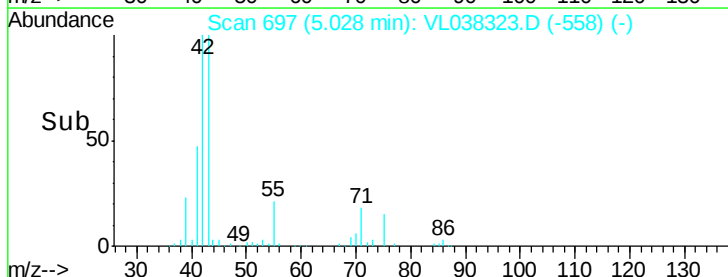
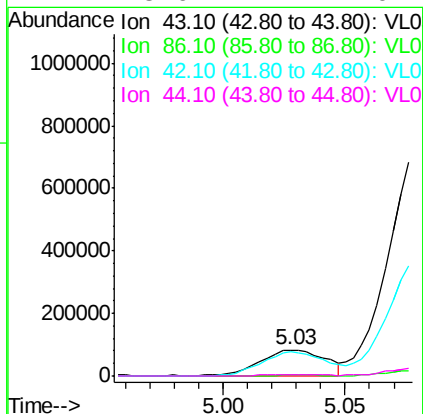
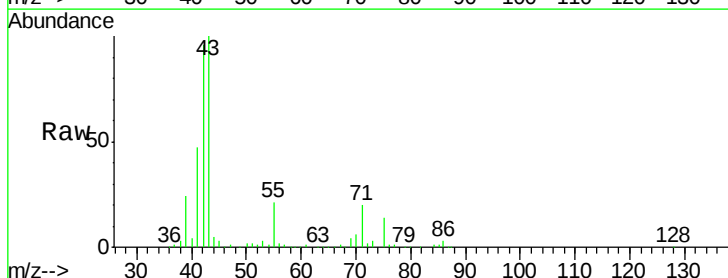
#21
 Allyl Chloride
 Concen: 0.038 ppbv
 RT: 4.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SVP-1
 Acq: 1 Feb 2022 16:12

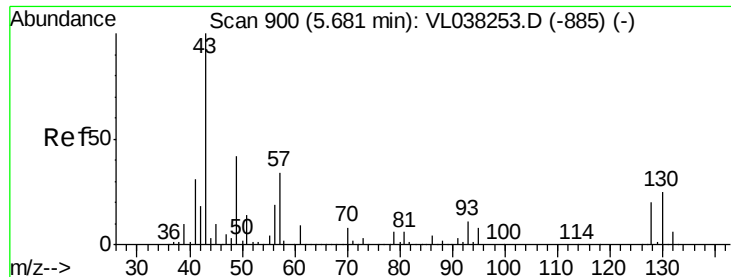
Tgt Ion: 41 Resp: 2256
 Ion Ratio Lower Upper
 41 100
 76 0.0 25.0 37.6#
 39 584.1 63.0 94.6#



#23
 Vinyl Acetate
 Concen: 1.546 ppbv
 RT: 5.03 min Scan# 697
 Delta R.T. -0.05 min
 Lab File: VL038323.D
 Acq: 1 Feb 2022 16:12

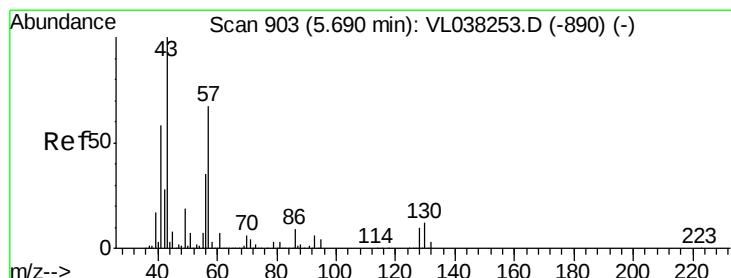
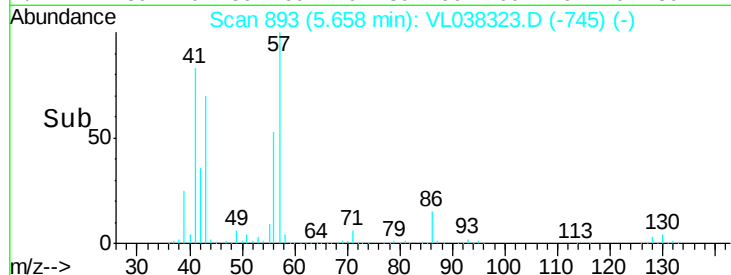
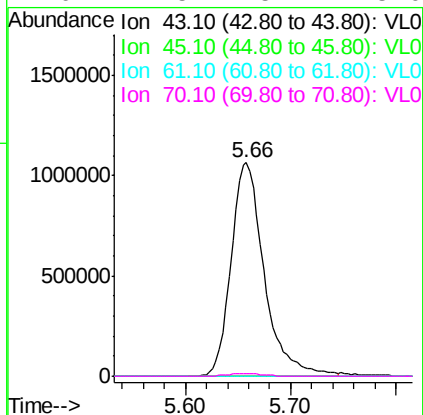
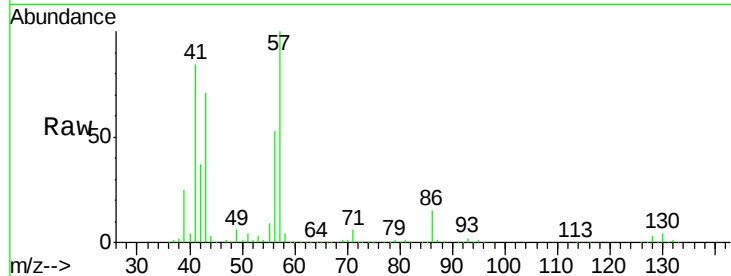
Tgt Ion: 43 Resp: 149735
 Ion Ratio Lower Upper
 43 100
 86 3.2 5.7 8.5#
 42 96.4 7.7 11.5#
 44 3.6 4.2 6.4#





#25
Ethyl Acetate
Concen: 12.370 ppbv
RT: 5.66
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 1 Feb 2022 16:12

Tgt Ion: 43 Resp: 2306336
Ion Ratio Lower Upper
43 100
45 0.3 7.9 11.9#
61 0.3 7.8 11.8#
70 1.5 5.4 8.0#



#26
Hexane
Concen: 37.971 ppbv
RT: 5.66 min Scan# 893
Delta R.T. -0.03 min
Lab File: VL038323.D
Acq: 1 Feb 2022 16:12

Tgt Ion: 57 Resp: 3292910
Ion Ratio Lower Upper
57 100
41 86.5 72.8 109.2
43 71.0 177.0 265.6#
56 53.1 43.3 64.9

