

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
 Data File : VL037769.D
 Acq On : 5 Oct 2021 11:28
 Operator : SY/AP
 Sample : VL105ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1005ABS01

Quant Time: Oct 06 04:45:23 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	5.65	49	1364736	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	4056193	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	4601185	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	2699830	8.39	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	83.90%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.04	85	2676136	12.277	ppbv	100
3) Chlorodifluoromethane	2.98	51	2429643	9.265	ppbv	98
4) Chloromethane	3.13	50	902031	9.392	ppbv	93
5) Vinyl Chloride	3.25	62	913569	10.376	ppbv	99
6) Bromomethane	3.47	94	446019	9.365	ppbv	98
7) Chloroethane	3.55	64	295897	9.140	ppbv	96
8) Dichlorotetrafluoroethane	3.18	85	2079483	9.651	ppbv	99
9) Propene	3.00	41	881756	9.139	ppbv	99
10) Heptane	8.11	43	2224836	10.153	ppbv	99
11) Trichlorofluoromethane	3.94	101	1902005	9.780	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.47	101	1438239	9.760	ppbv	99
13) Ethanol	3.60	45	47713	6.047	ppbv	78
14) Bromoethene	3.73	108	656480	10.132	ppbv	94
15) Acetone	3.84	43	1122324	9.161	ppbv	97
16) 1,3-Butadiene	3.32	39	890512	9.990	ppbv	99
17) tert-Butyl alcohol	4.28	59	1202264	9.528	ppbv	99
18) 1,1-Dichloroethene	4.28	96	646842	9.659	ppbv	98
19) Isopropyl Alcohol	3.95	45	695780	9.129	ppbv	# 95
20) Methylene Chloride	4.33	84	536588	8.668	ppbv	98
21) Allyl Chloride	4.40	41	990700	9.128	ppbv	95
22) trans-1,2-Dichloroethene	4.87	96	668321	9.926	ppbv	97
23) Vinyl Acetate	5.06	43	1916809	10.440	ppbv	# 96
24) 1,1-Dichloroethane	5.00	63	1346710	10.077	ppbv	99
25) Ethyl Acetate	5.66	43	3471548	10.098	ppbv	98
26) Hexane	5.67	57	1631003	9.635	ppbv	99
27) Carbon Disulfide	4.54	76	1624082	10.825	ppbv	99
28) Methyl tert-Butyl Ether	5.02	73	1395773	9.903	ppbv	99
29) Chloroform	5.74	83	2318099	9.580	ppbv	98
30) Cyclohexane	7.11	84	1412141	9.837	ppbv	97
31) cis-1,2-Dichloroethene	5.53	61	1505551	9.797	ppbv	98
32) 1,1,1-Trichloroethane	6.50	97	2245619	9.789	ppbv	99
34) 2-Butanone	5.23	43	1529580	9.341	ppbv	100
35) Carbon Tetrachloride	7.01	117	2339057	10.154	ppbv	98
36) Benzene	6.87	78	3421718	9.876	ppbv	100
37) 1,2-Dichloroethane	6.29	62	1589518	9.744	ppbv	100
38) Trichloroethene	7.82	130	1330508	9.721	ppbv	98
39) 1,2-Dichloropropane	7.60	63	1287056	9.876	ppbv	96
40) 1,4-Dioxane	7.82	88	291980	8.954	ppbv	# 100
41) Tetrahydrofuran	6.03	42	810967	10.114	ppbv	99
42) Bromodichloromethane	7.77	83	2494385	10.410	ppbv	100
43) Methyl Methacrylate	8.00	69	1227690	10.849	ppbv	100

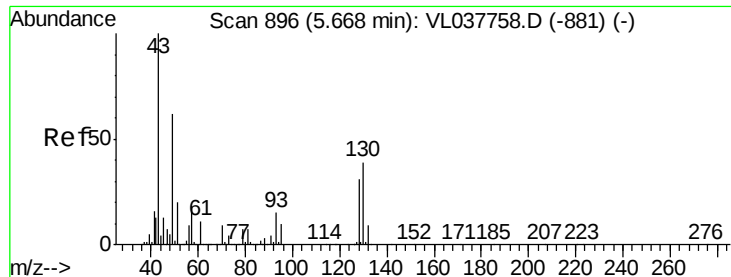
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100521\
 Data File : VL037769.D
 Acq On : 5 Oct 2021 11:28
 Operator : SY/AP
 Sample : VL105ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1005ABS01

Quant Time: Oct 06 04:45:23 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)
44) 2,2,4-Trimethylpentane	7.85	57	5676389	9.752	ppbv	99
45) t-1,3-Dichloropropene	9.26	75	816214	10.483	ppbv	97
46) cis-1,3-Dichloropropene	8.69	75	1121064	10.388	ppbv	98
47) 1,1,2-Trichloroethane	9.46	97	1386338	9.786	ppbv	98
48) Dibromochloromethane	10.28	129	2223121	11.008	ppbv	99
49) Bromoform	13.02	173	1943568	12.578	ppbv	98
50) 4-Methyl-2-Pentanone	8.73	43	2255261	10.580	ppbv	99
51) 2-Hexanone	10.12	43	1013899	10.654	ppbv #	96
52) Tetrachloroethene	11.21	164	1267433	9.403	ppbv	98
53) Toluene	9.79	91	3987076	10.384	ppbv	100
54) 1,2-Dibromoethane	10.59	107	1967955	10.284	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.11	131	1550928	8.142	ppbv	98
57) Chlorobenzene	12.13	112	2965968	7.858	ppbv	98
58) Ethyl Benzene	12.69	91	5248890	8.495	ppbv	99
59) m/p-Xylene	12.98	91	4339207	8.182	ppbv #	31
60) o-Xylene	13.67	91	4139769	8.145	ppbv	98
61) Styrene	13.51	104	2356660	9.586	ppbv	99
62) Isopropylbenzene	14.64	105	5736318	8.091	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.66	83	2982252	7.604	ppbv	99
64) n-propylbenzene	15.54	120	1549635	8.766	ppbv	92
65) tert-Butylbenzene	16.72	119	5075481	8.136	ppbv	99
66) Benzyl Chloride	16.96	91	136838	4.444	ppbv #	86
67) sec-Butylbenzene	17.27	105	7092775	8.313	ppbv	100
69) p-Isopropyltoluene	17.63	119	6010573	8.713	ppbv	100
70) n-Butylbenzene	18.53	91	5957441	9.091	ppbv	100
71) 2-Chlorotoluene	15.43	91	4373432	8.736	ppbv	98
72) 4-Ethyltoluene	15.82	105	5047970	8.747	ppbv	99
73) 1,3,5-Trimethylbenzene	15.97	105	4568892	8.716	ppbv	99
74) 1,2,4-Trimethylbenzene	16.74	105	4657141	8.460	ppbv	99
75) 1,3-Dichlorobenzene	16.97	146	2869677	8.414	ppbv	99
76) 1,4-Dichlorobenzene	17.11	146	2828432	8.694	ppbv	100
77) 1,2-Dichlorobenzene	17.79	146	2783604	8.496	ppbv	99
78) Hexachloro-1,3-Butadiene	23.35	225	2076040	7.761	ppbv	99
79) Naphthalene	22.16	128	3409909	10.114	ppbv	98
80) Naphthalene,2-methyl-	24.95	142	839421	9.273	ppbv	96
81) 1,2,4-Trichlorobenzene	21.90	180	2040640	9.464	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.01 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

Instrument :

MSVOA_L

ClientSampleId :

VL1005ABS01

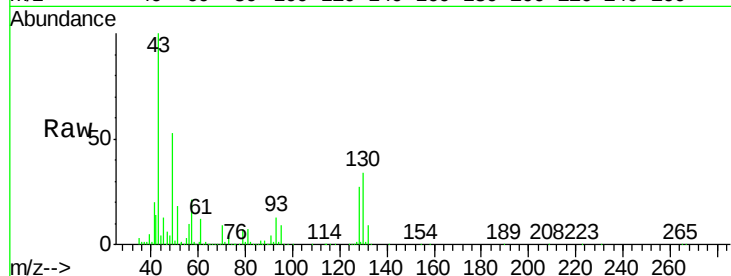
Tgt Ion: 49 Resp: 1364736

Ion Ratio Lower Upper

49 100

128 55.6 27.1 81.3

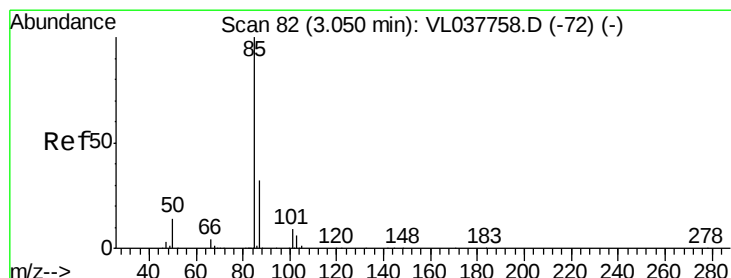
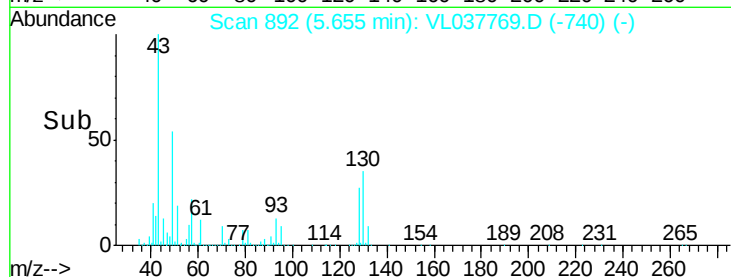
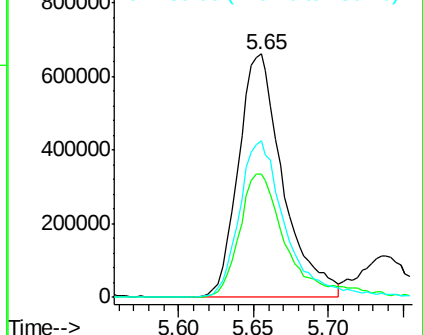
130 68.1 33.2 99.6



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: 12.277 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL037769.D

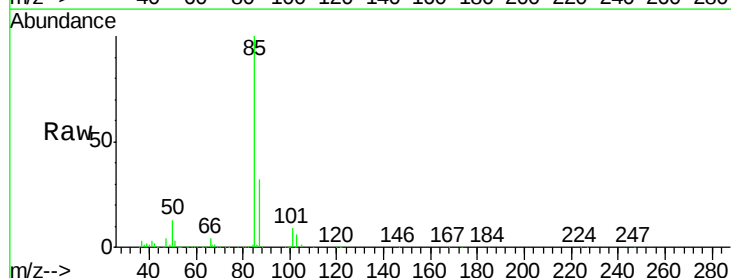
Acq: 5 Oct 2021 11:28

Tgt Ion: 85 Resp: 2676136

Ion Ratio Lower Upper

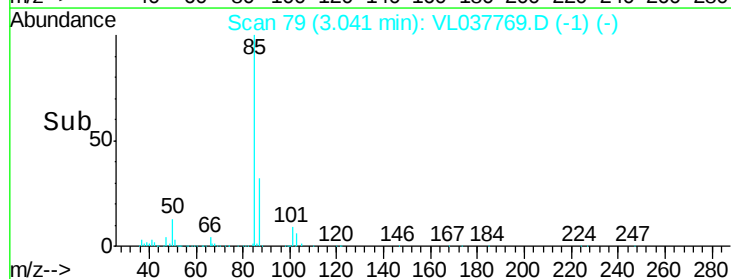
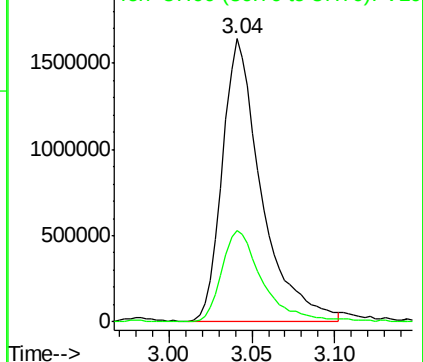
85 100

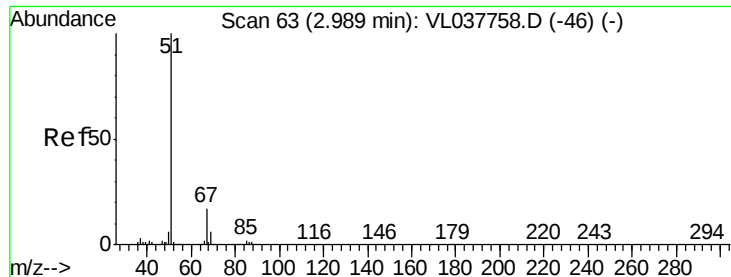
87 32.2 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.265 ppbv

RT: 2.98 min Scan# 61

Delta R.T. -0.01 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

Instrument :

MSVOA_L

ClientSampleId :

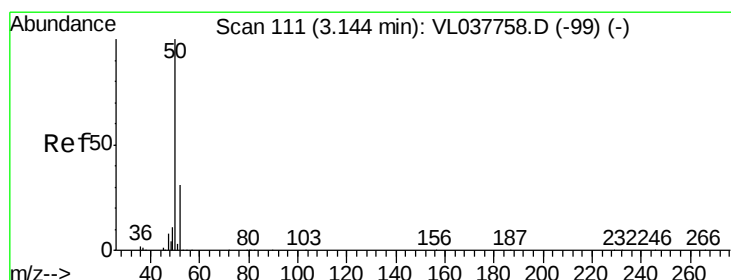
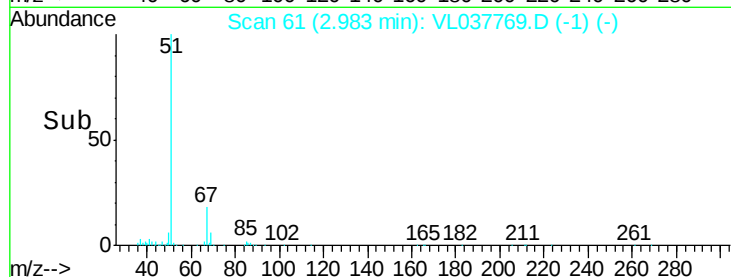
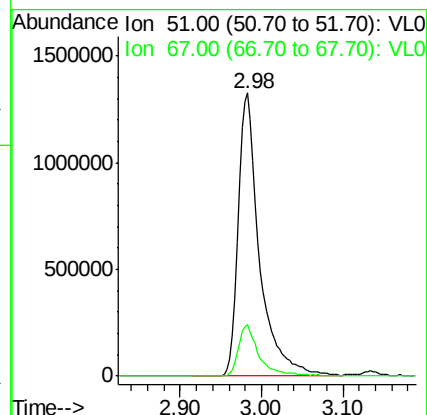
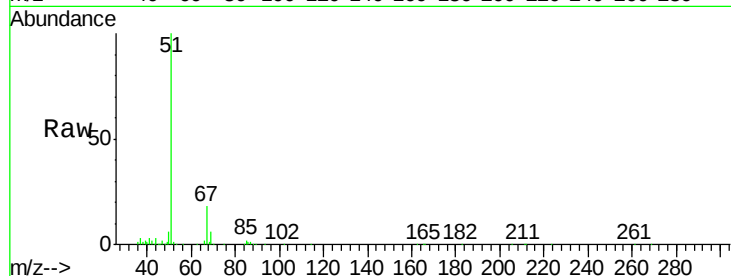
VL1005ABS01

Tgt Ion: 51 Resp: 2429643

Ion Ratio Lower Upper

51 100

67 17.8 13.5 20.3



#4

Chloromethane

Concen: 9.392 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL037769.D

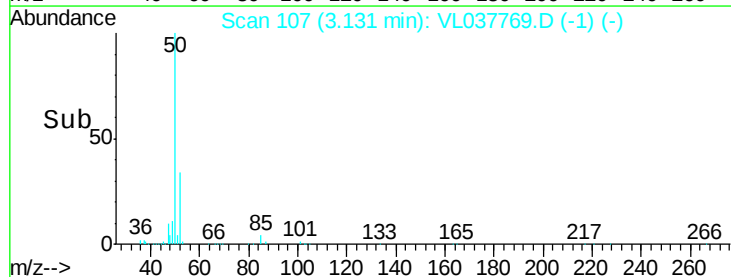
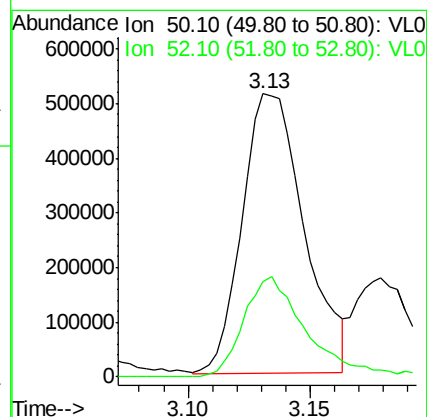
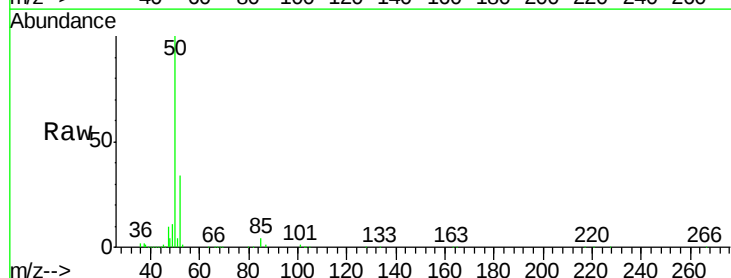
Acq: 5 Oct 2021 11:28

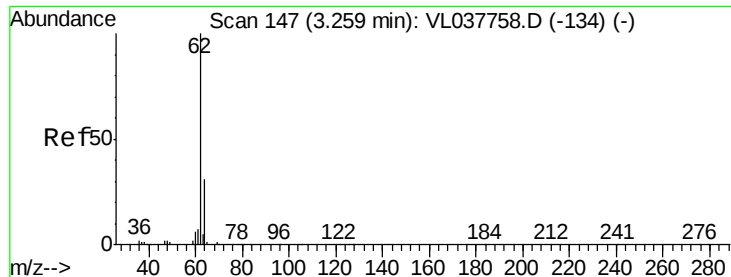
Tgt Ion: 50 Resp: 902031

Ion Ratio Lower Upper

50 100

52 34.1 24.4 36.6





#5

Vinyl Chloride

Concen: 10.376 ppbv

RT: 3.25 min Scan# 144

Delta R.T. -0.01 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

Instrument :

MSVOA_L

ClientSampleId :

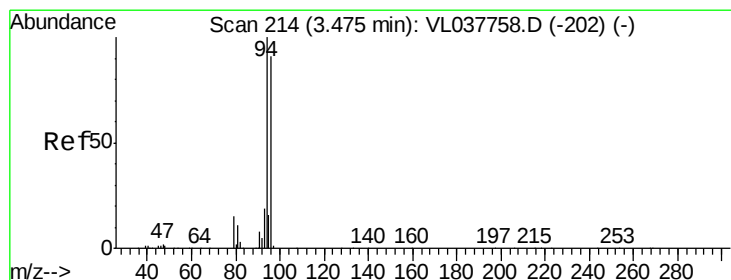
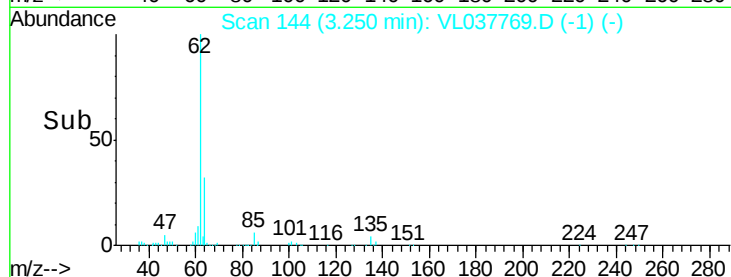
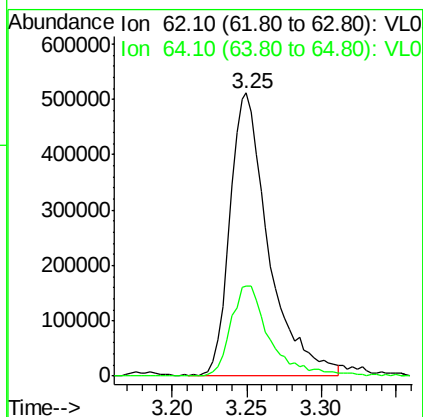
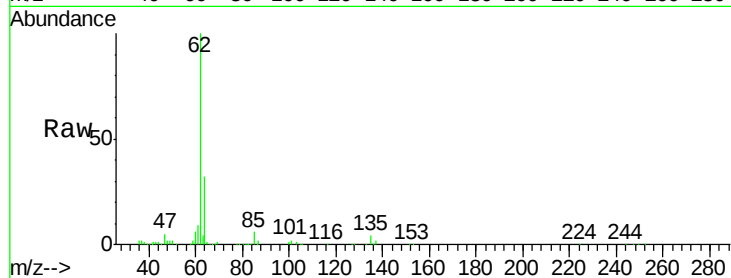
VL1005ABS01

Tgt Ion: 62 Resp: 913569

Ion Ratio Lower Upper

62 100

64 31.8 24.9 37.3



#6

Bromomethane

Concen: 9.365 ppbv

RT: 3.47 min Scan# 211

Delta R.T. -0.01 min

Lab File: VL037769.D

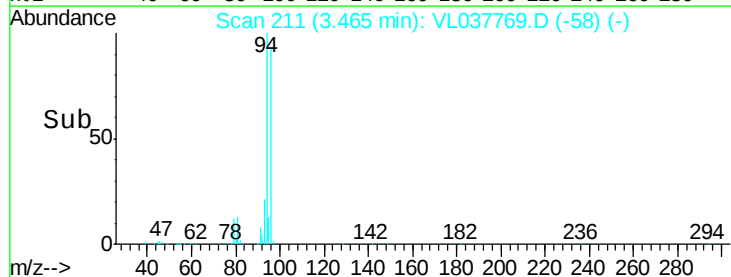
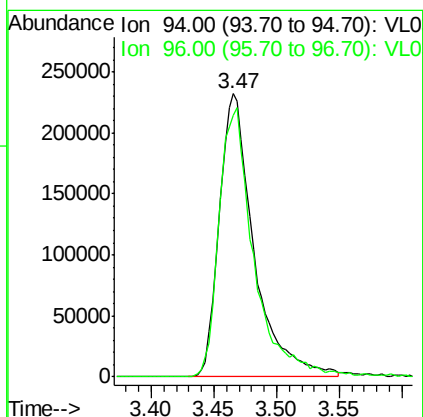
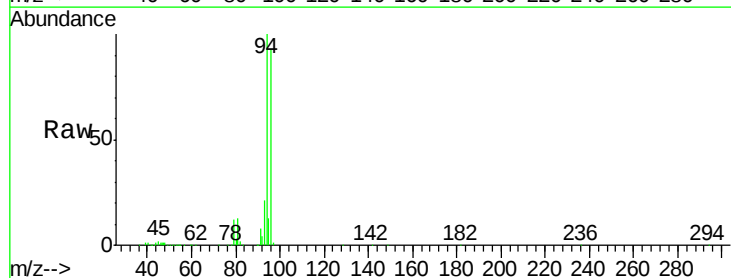
Acq: 5 Oct 2021 11:28

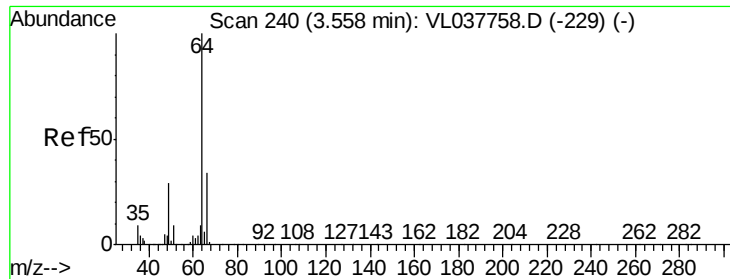
Tgt Ion: 94 Resp: 446019

Ion Ratio Lower Upper

94 100

96 92.6 72.5 108.7





#7

Chloroethane

Concen: 9.140 ppbv

RT: 3.55 min Scan# 237

Delta R.T. -0.01 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

Instrument :

MSVOA_L

ClientSampleId :

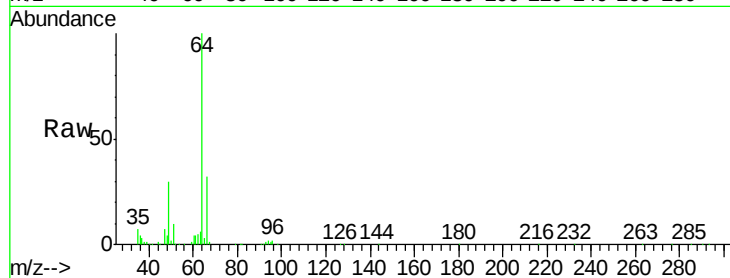
VL1005ABS01

Tgt Ion: 64 Resp: 295897

Ion Ratio Lower Upper

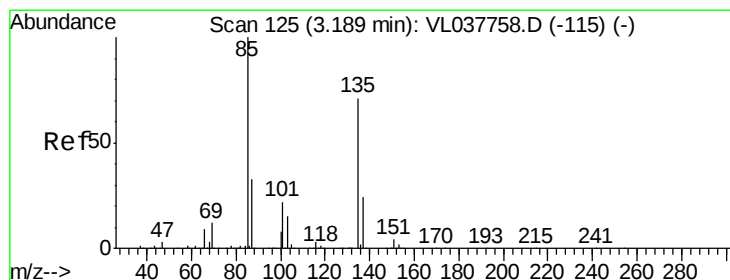
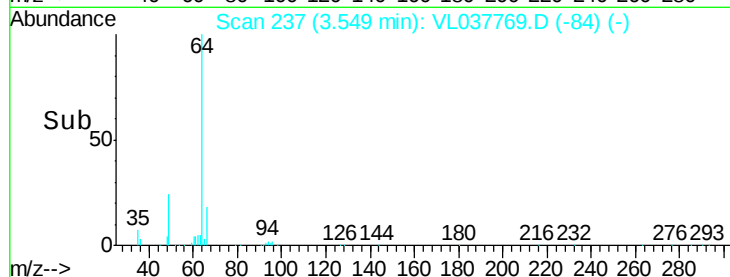
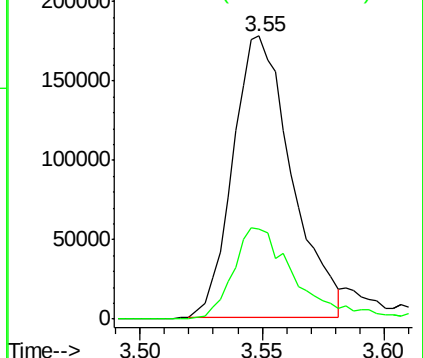
64 100

66 32.0 27.5 41.3



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.651 ppbv

RT: 3.18 min Scan# 122

Delta R.T. -0.01 min

Lab File: VL037769.D

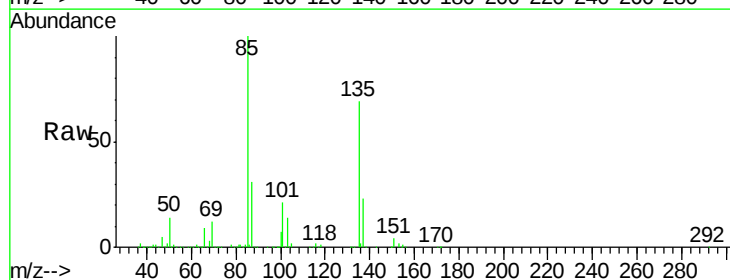
Acq: 5 Oct 2021 11:28

Tgt Ion: 85 Resp: 2079483

Ion Ratio Lower Upper

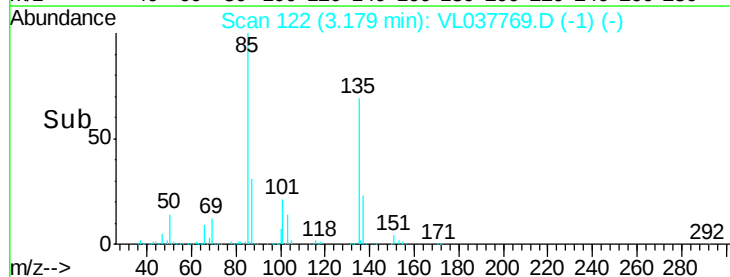
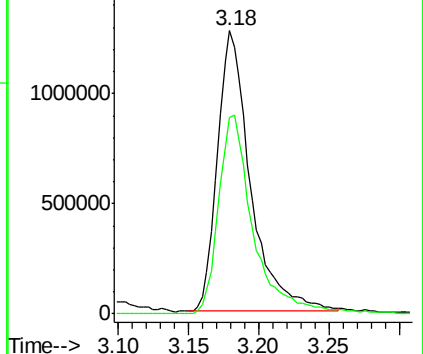
85 100

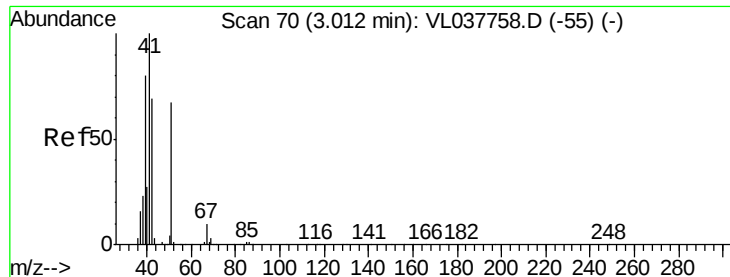
135 74.9 59.5 89.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.139 ppbv

RT: 3.00 min Scan# 67

Delta R.T. -0.01 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

Instrument :

MSVOA_L

ClientSampleId :

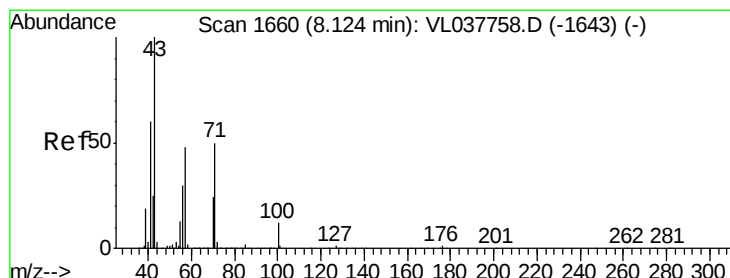
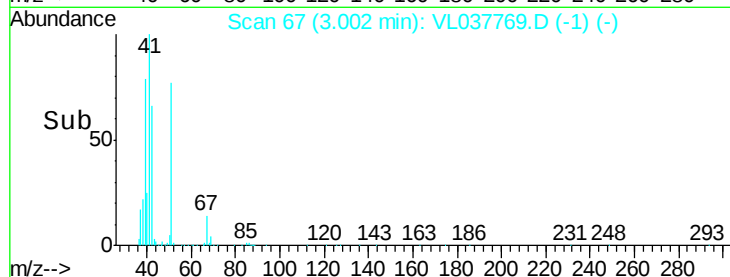
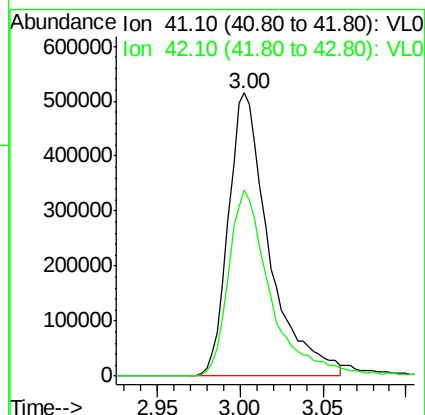
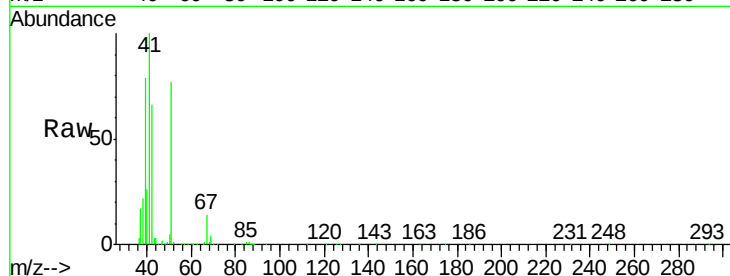
VL1005ABS01

Tgt Ion: 41 Resp: 881756

Ion Ratio Lower Upper

41 100

42 68.1 54.2 81.2



#10

Heptane

Concen: 10.153 ppbv

RT: 8.11 min Scan# 1655

Delta R.T. -0.02 min

Lab File: VL037769.D

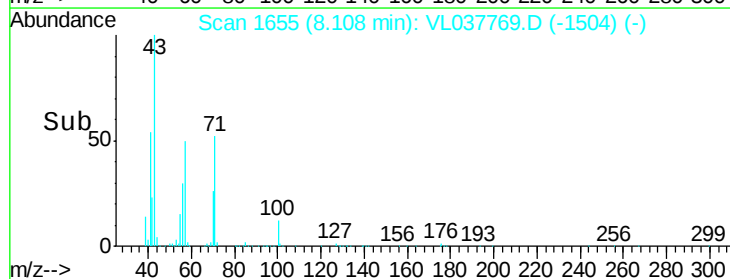
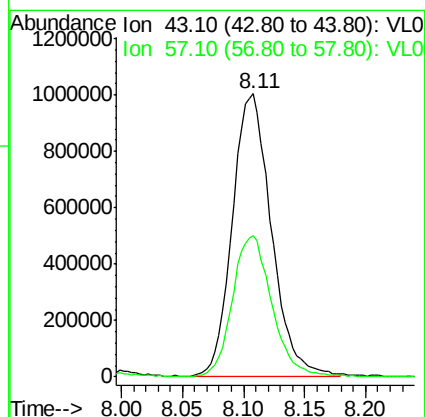
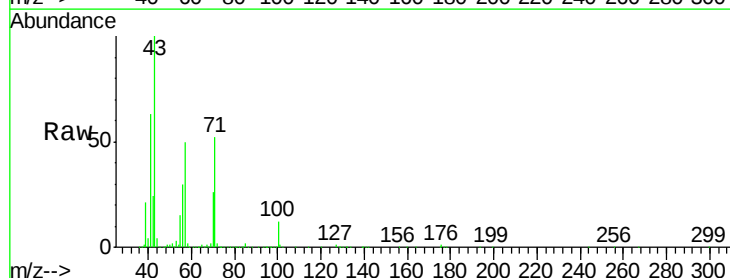
Acq: 5 Oct 2021 11:28

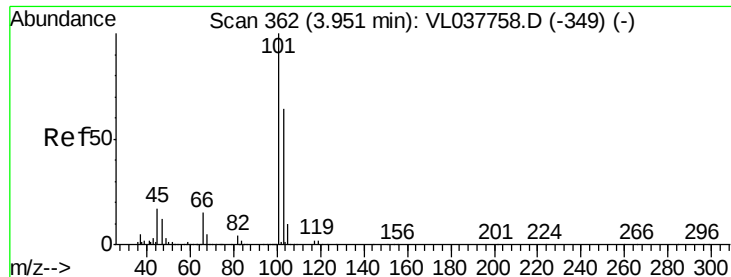
Tgt Ion: 43 Resp: 2224836

Ion Ratio Lower Upper

43 100

57 50.5 40.0 60.0





#11

Trichlorofluoromethane

Concen: 9.780 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

Instrument :

MSVOA_L

ClientSampleId :

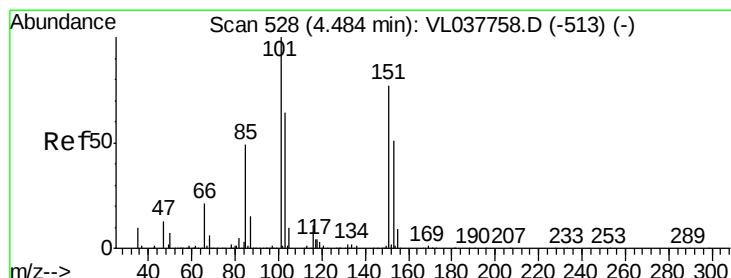
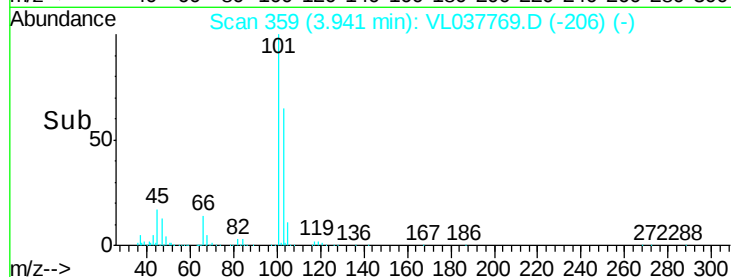
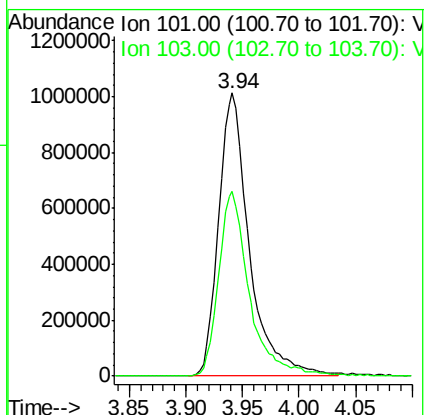
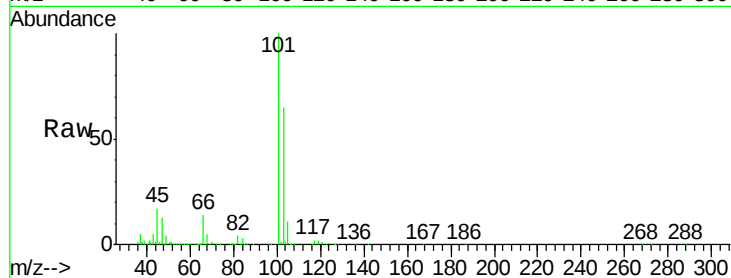
VL1005ABS01

Tgt Ion:101 Resp: 1902005

Ion Ratio Lower Upper

101 100

103 65.4 51.5 77.3



#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.760 ppbv

RT: 4.47 min Scan# 525

Delta R.T. -0.01 min

Lab File: VL037769.D

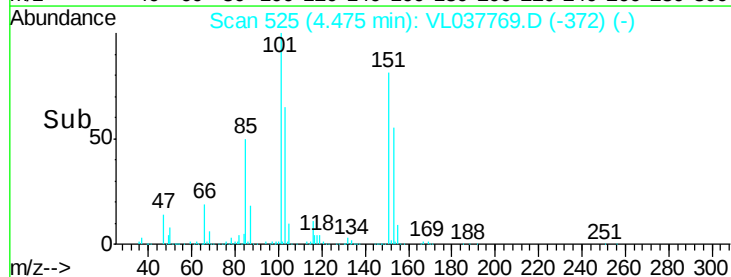
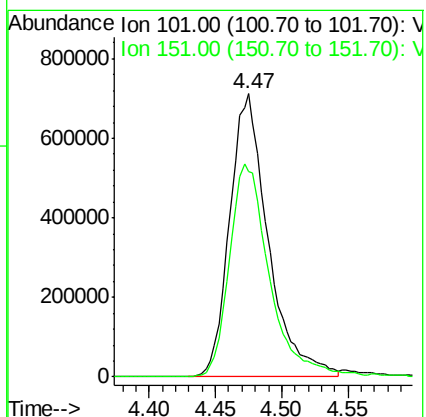
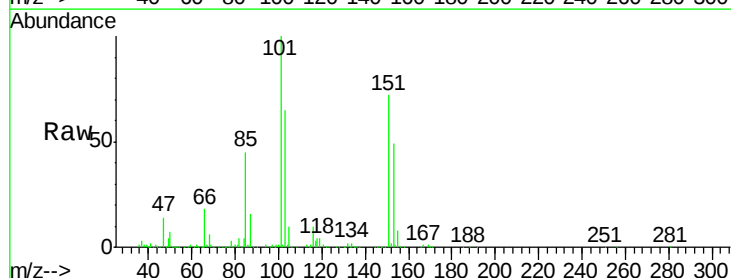
Acq: 5 Oct 2021 11:28

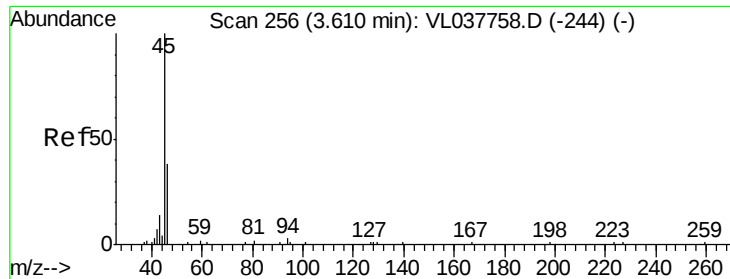
Tgt Ion:101 Resp: 1438239

Ion Ratio Lower Upper

101 100

151 79.2 62.9 94.3





#13

Ethanol

Concen: 6.047 ppbv

RT: 3.60 min Scan# 252

Delta R.T. -0.01 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

Instrument :

MSVOA_L

ClientSampleId :

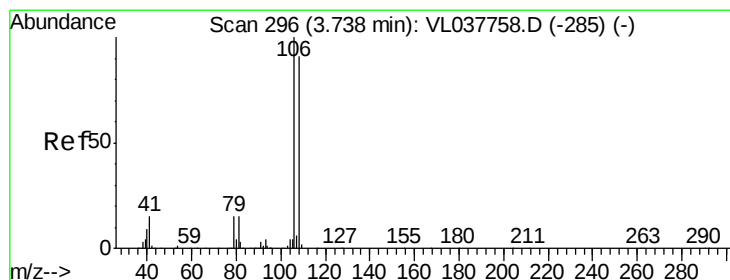
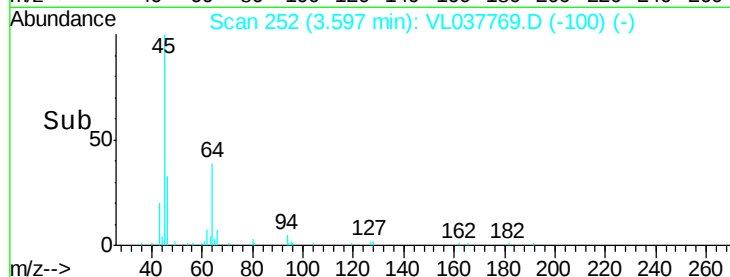
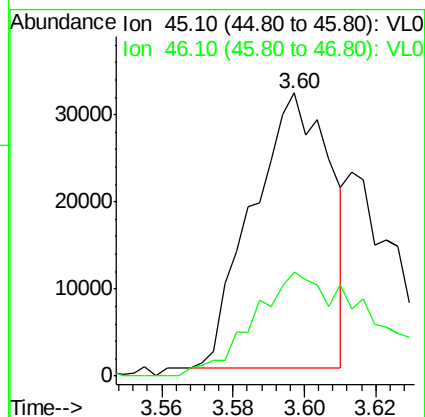
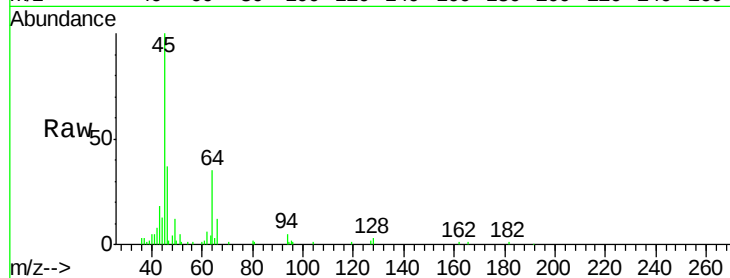
VL1005ABS01

Tgt Ion: 45 Resp: 47713

Ion Ratio Lower Upper

45 100

46 65.5 20.2 81.0



#14

Bromoethene

Concen: 10.132 ppbv

RT: 3.73 min Scan# 294

Delta R.T. -0.01 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

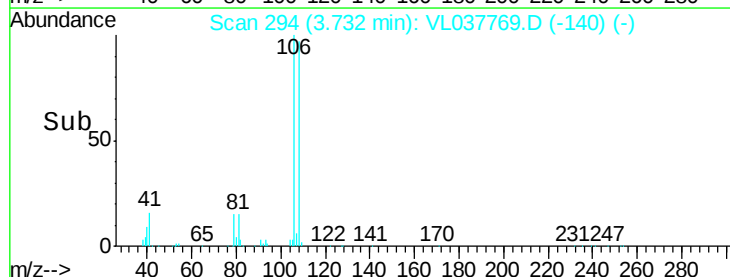
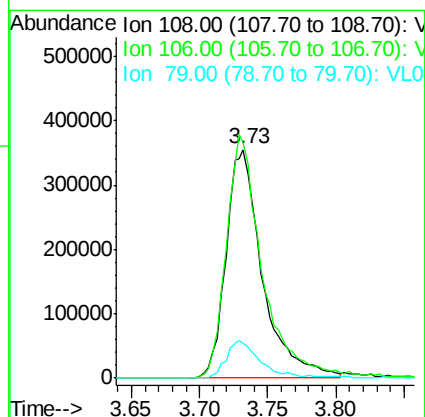
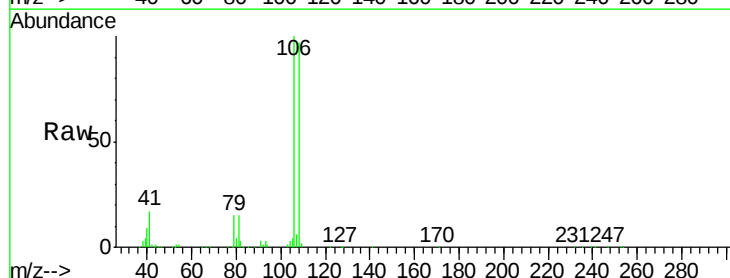
Tgt Ion: 108 Resp: 656480

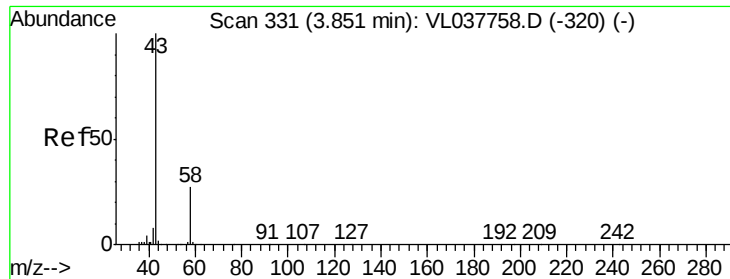
Ion Ratio Lower Upper

108 100

106 107.8 91.9 137.9

79 16.3 13.9 20.9





#15

Acetone

Concen: 9.161 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.01 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

Instrument :

MSVOA_L

ClientSampleId :

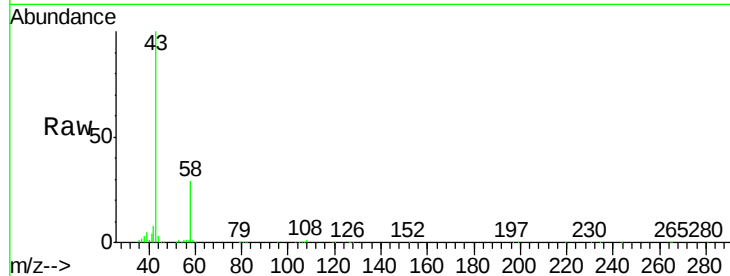
VL1005ABS01

Tgt Ion: 43 Resp: 1122324

Ion Ratio Lower Upper

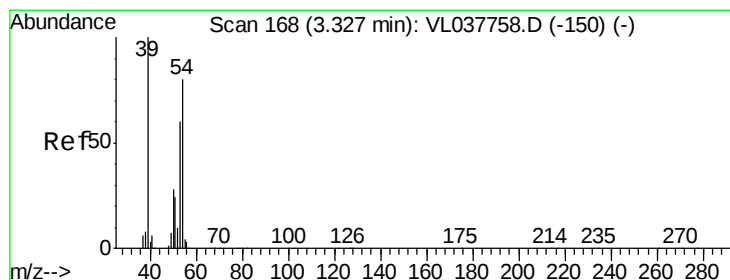
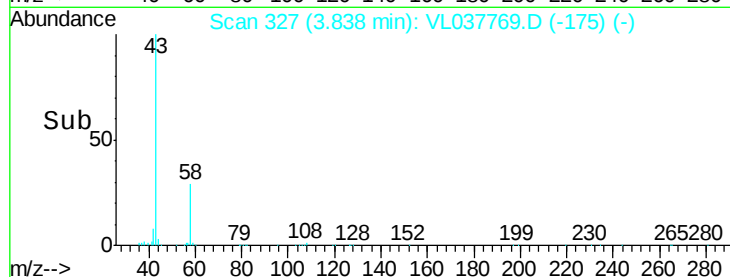
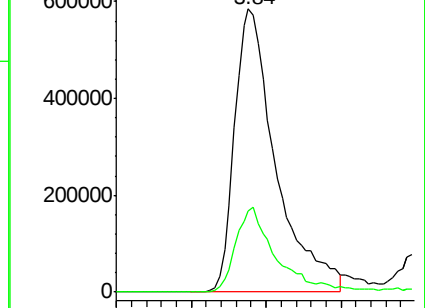
43 100

58 30.3 23.0 34.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 9.990 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.01 min

Lab File: VL037769.D

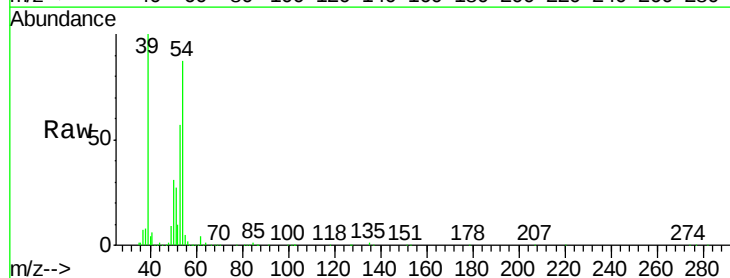
Acq: 5 Oct 2021 11:28

Tgt Ion: 39 Resp: 890512

Ion Ratio Lower Upper

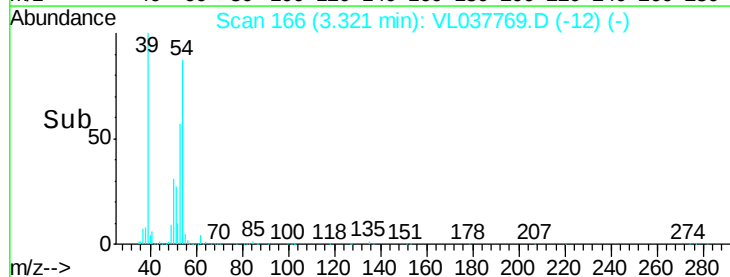
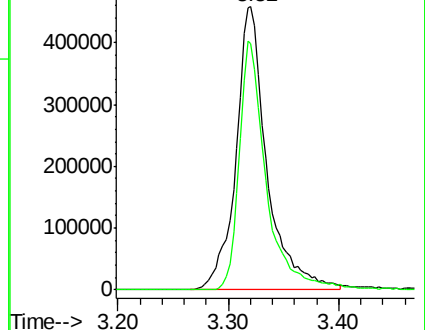
39 100

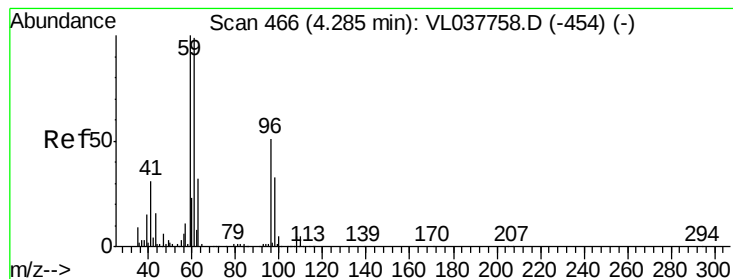
54 77.6 61.7 92.5



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 9.528 ppbv

RT: 4.28 min Scan# 463

Delta R.T. -0.01 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

Instrument :

MSVOA_L

ClientSampleId :

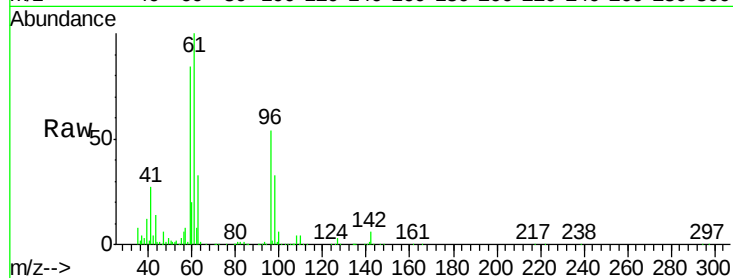
VL1005ABS01

Tgt Ion: 59 Resp: 1202264

Ion Ratio Lower Upper

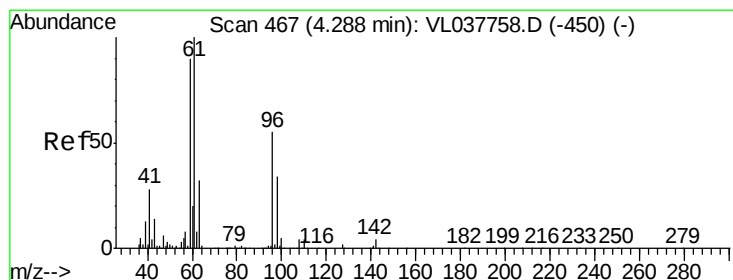
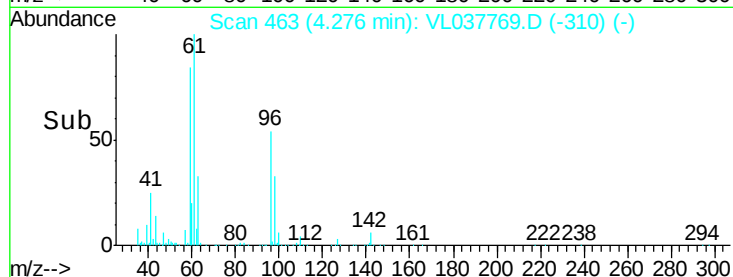
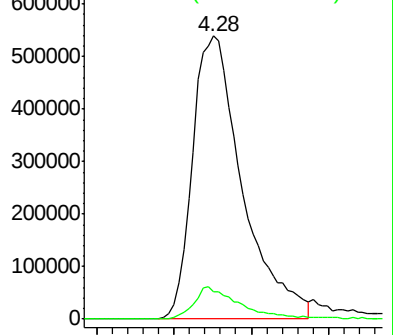
59 100

57 11.2 8.6 13.0



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 9.659 ppbv

RT: 4.28 min Scan# 464

Delta R.T. -0.01 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

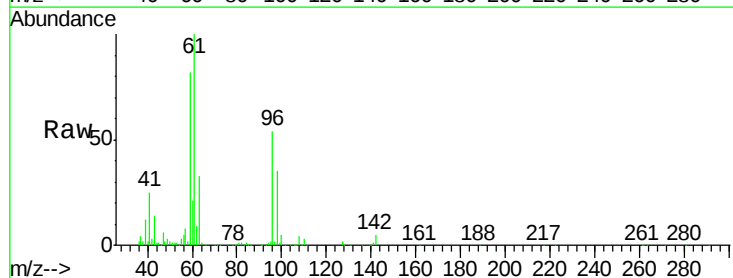
Tgt Ion: 96 Resp: 646842

Ion Ratio Lower Upper

96 100

61 185.2 146.2 219.4

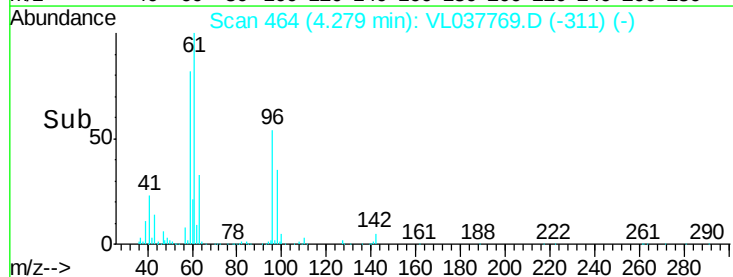
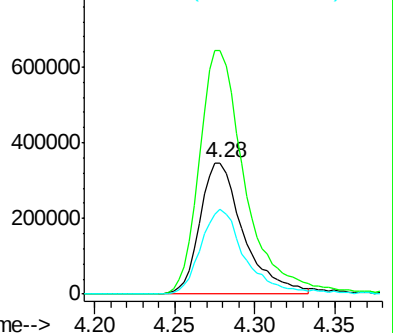
98 64.7 50.0 75.0

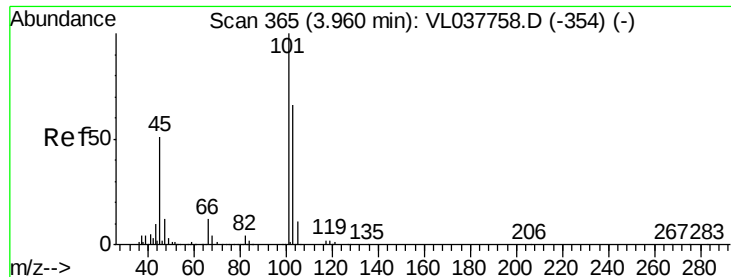


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 9.129 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

Instrument :

MSVOA_L

ClientSampleId :

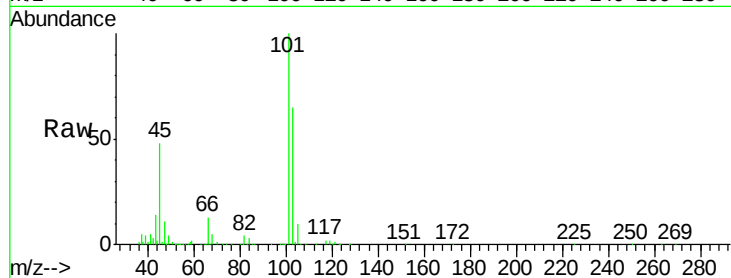
VL1005ABS01

Tgt Ion: 45 Resp: 695780

Ion Ratio Lower Upper

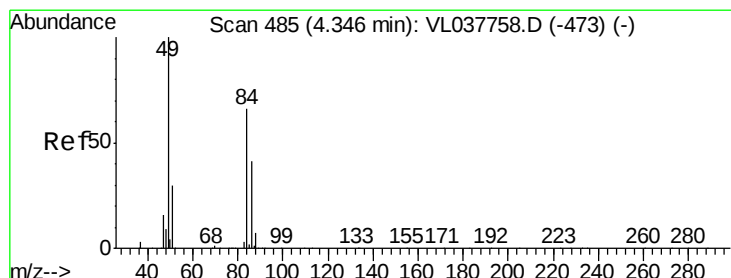
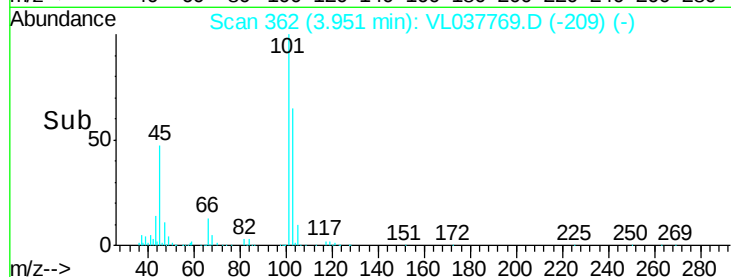
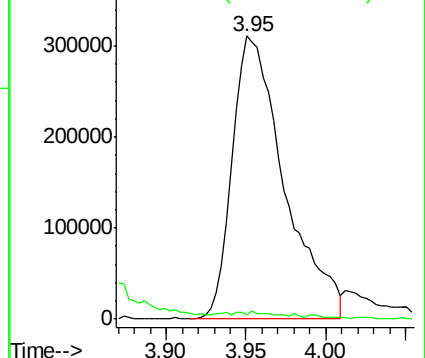
45 100

58 3.5 1.1 1.7#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.668 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

Tgt Ion: 84 Resp: 536588

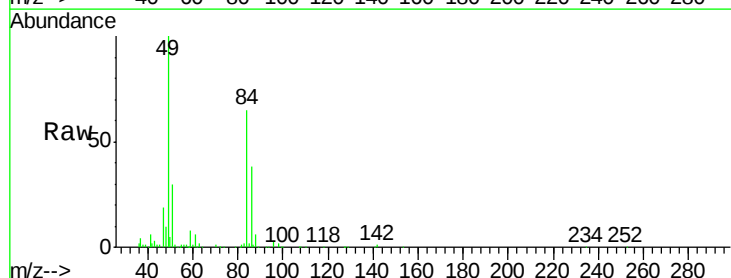
Ion Ratio Lower Upper

84 100

49 152.4 120.7 181.1

51 44.5 36.2 54.4

86 58.9 49.6 74.4

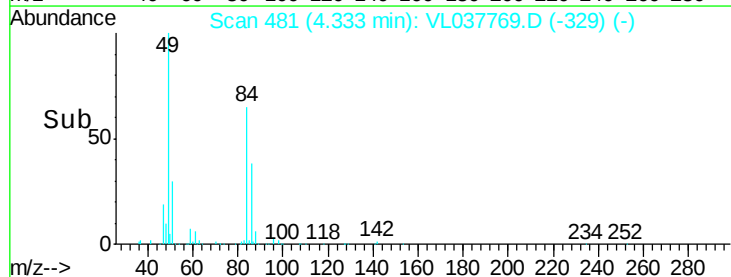
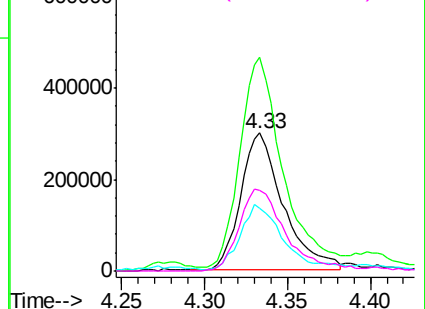


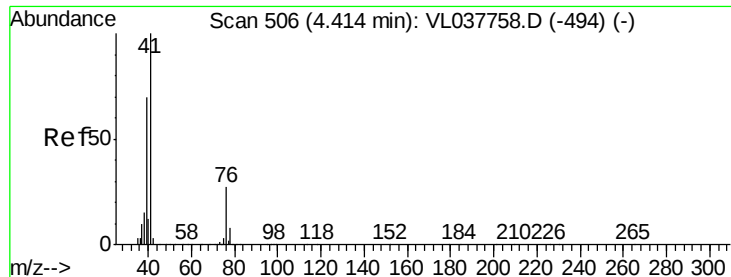
Abundance Ion 84.00 (83.70 to 84.70): VL0

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

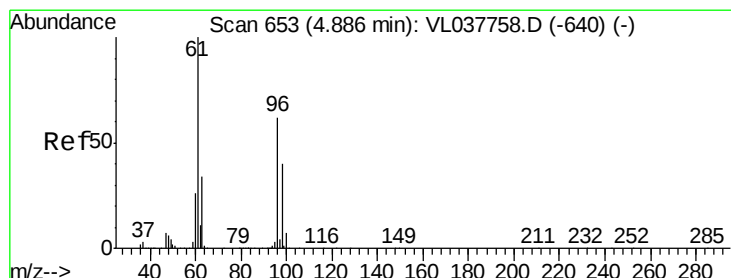
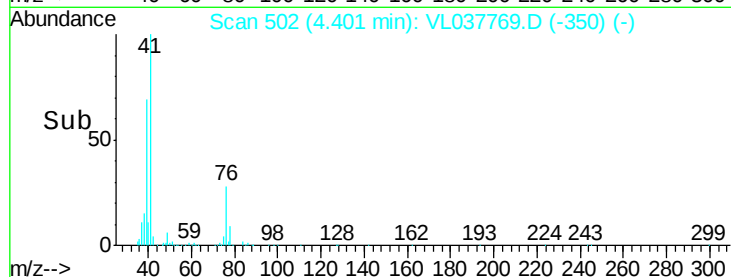
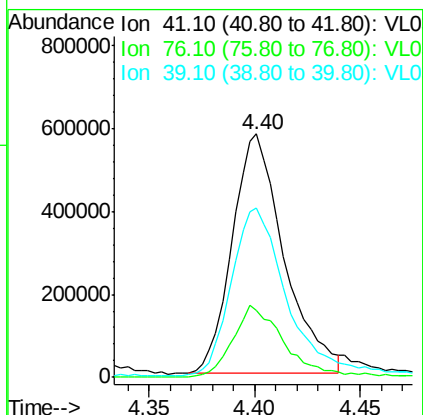
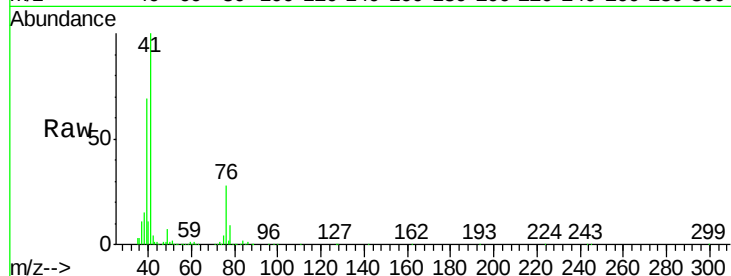




#21
 Allyl Chloride
 Concen: 9.128 ppbv
 RT: 4.40 min Scan# 502
 Delta R.T. -0.01 min
 Lab File: VL037769.D
 Acq: 5 Oct 2021 11:28

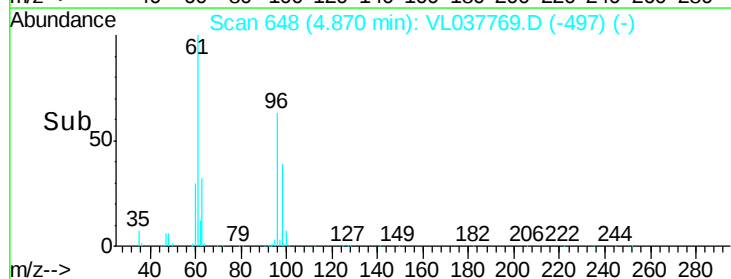
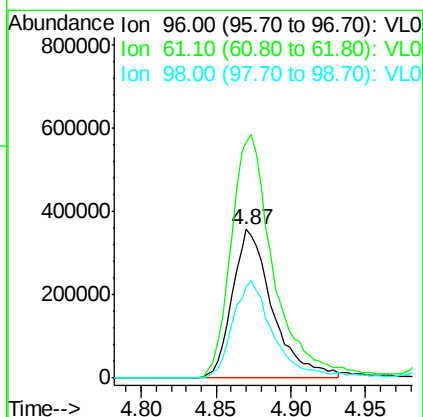
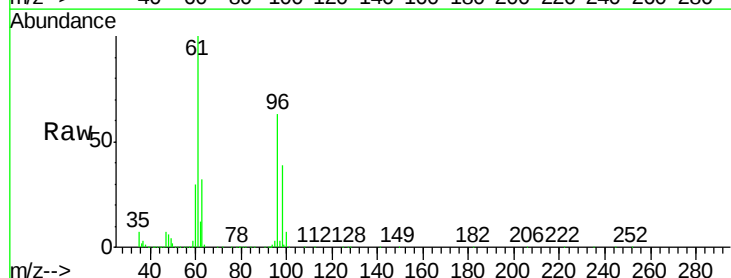
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1005ABS01

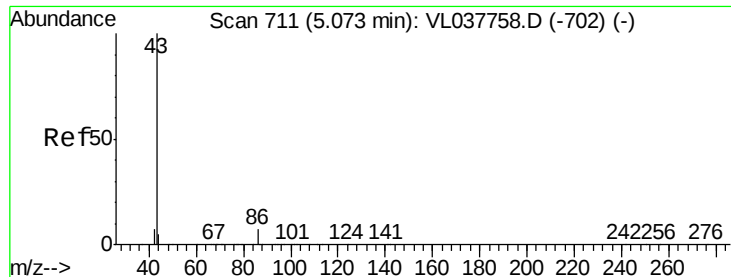
Tgt Ion: 41 Resp: 990700
 Ion Ratio Lower Upper
 41 100
 76 30.5 22.4 33.6
 39 77.3 58.0 87.0



#22
 trans-1,2-Dichloroethene
 Concen: 9.926 ppbv
 RT: 4.87 min Scan# 648
 Delta R.T. -0.02 min
 Lab File: VL037769.D
 Acq: 5 Oct 2021 11:28

Tgt Ion: 96 Resp: 668321
 Ion Ratio Lower Upper
 96 100
 61 158.7 129.0 193.6
 98 61.2 51.7 77.5





#23

Vinyl Acetate

Concen: 10.440 ppbv

RT: 5.06 min Scan# 707

Delta R.T. -0.01 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

Instrument :

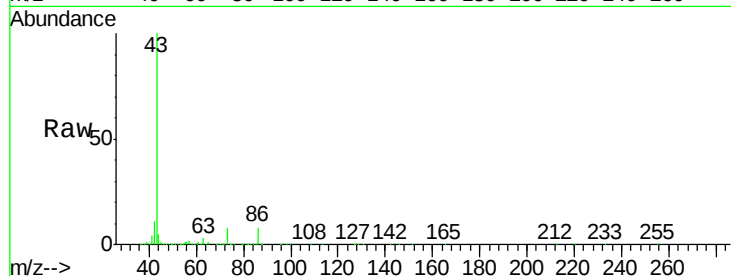
MSVOA_L

ClientSampleId :

VL1005ABS01

Tgt Ion: 43 Resp: 1916809

Ion	Ratio	Lower	Upper
43	100		
86	8.1	5.0	7.4#
42	10.4	7.4	11.0
44	4.4	3.8	5.6

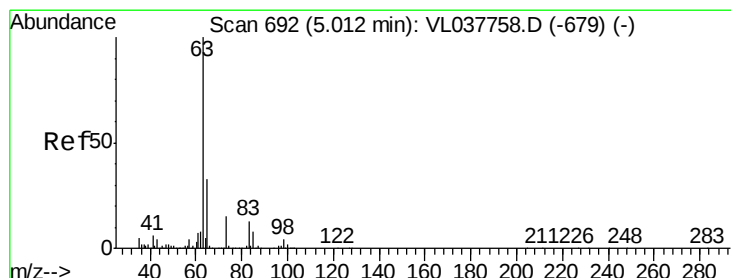
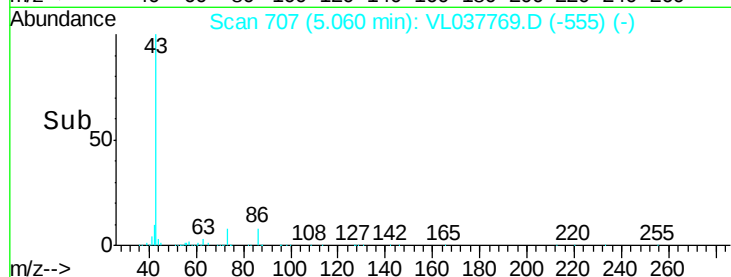
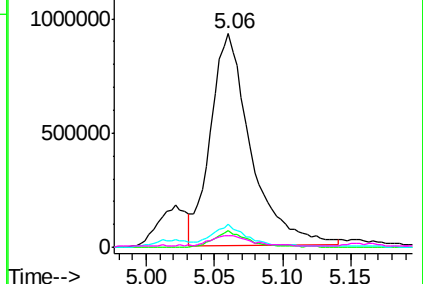


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.077 ppbv

RT: 5.00 min Scan# 688

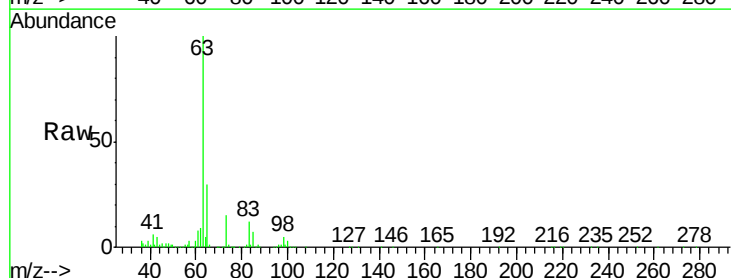
Delta R.T. -0.01 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

Tgt Ion: 63 Resp: 1346710

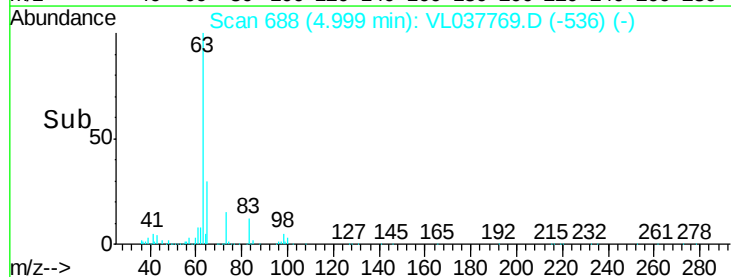
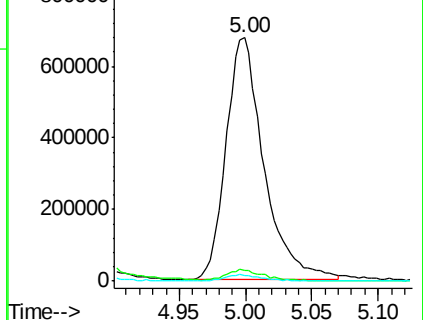
Ion	Ratio	Lower	Upper
63	100		
98	4.3	2.3	6.9
100	2.5	1.1	3.1

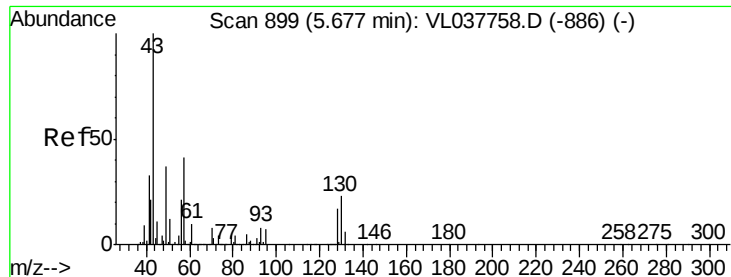


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 10.098 ppbv

RT: 5.66 min Scan# 895

Delta R.T. -0.01 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

Instrument :

MSVOA_L

ClientSampleId :

VL1005ABS01

Tgt Ion: 43 Resp: 3471548

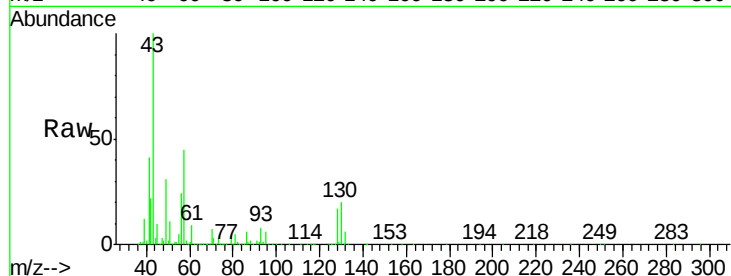
Ion Ratio Lower Upper

43 100

45 9.9 8.1 12.1

61 10.2 7.5 11.3

70 8.1 5.9 8.9

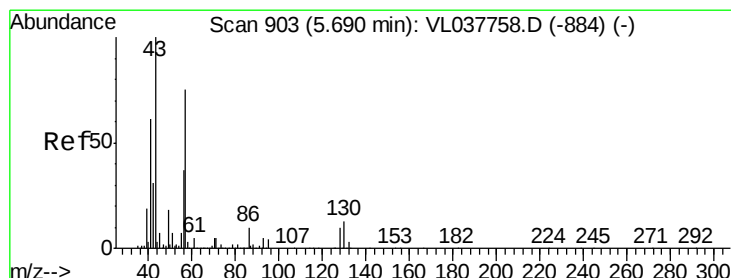
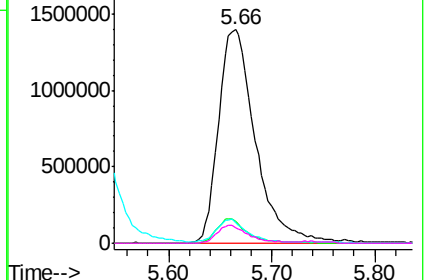
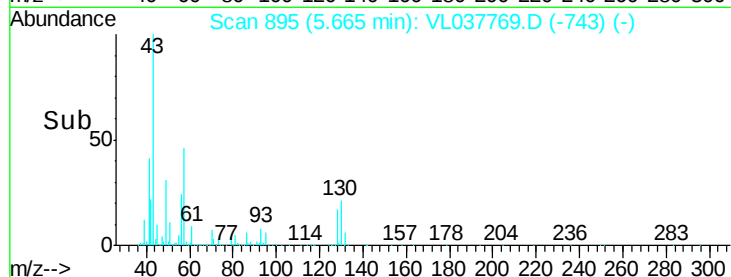


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.635 ppbv

RT: 5.67 min Scan# 897

Delta R.T. -0.02 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

Tgt Ion: 57 Resp: 1631003

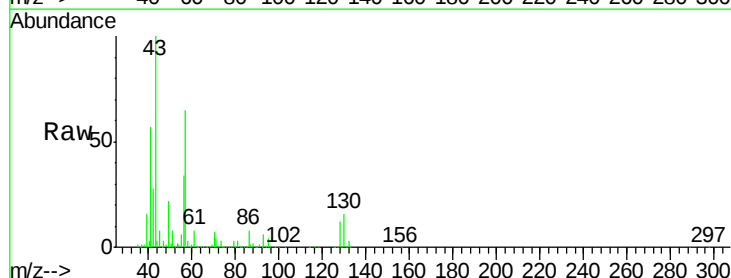
Ion Ratio Lower Upper

57 100

41 89.7 69.6 104.4

43 213.9 171.4 257.0

56 53.6 42.0 63.0

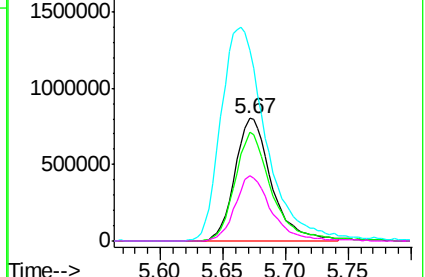
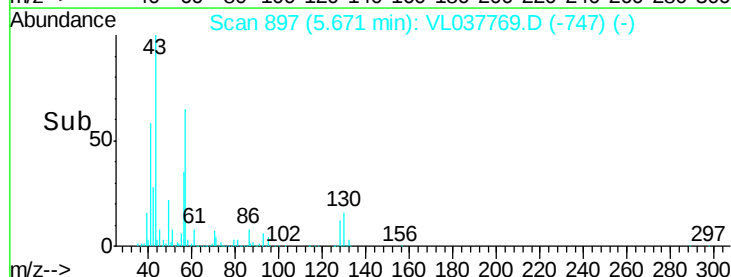


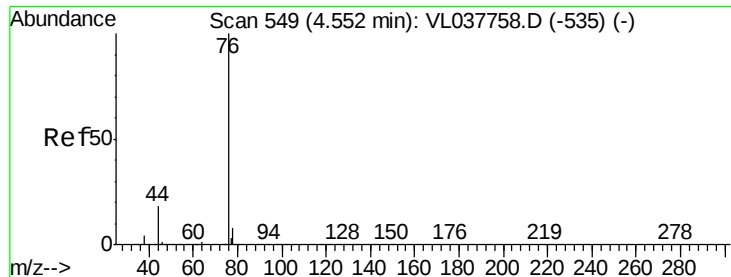
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#27

Carbon Disulfide

Concen: 10.825 ppbv

RT: 4.54 min Scan# 544

Delta R.T. -0.02 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

Instrument :

MSVOA_L

ClientSampleId :

VL1005ABS01

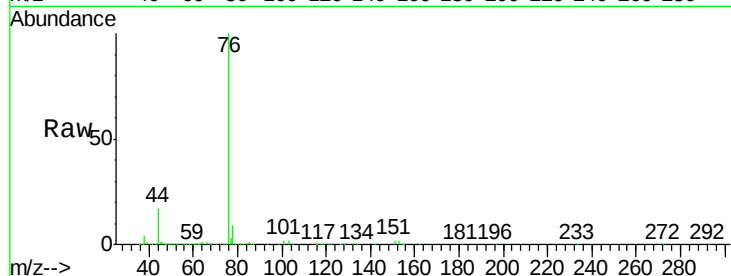
Tgt Ion: 76 Resp: 1624082

Ion Ratio Lower Upper

76 100

44 18.4 14.3 21.5

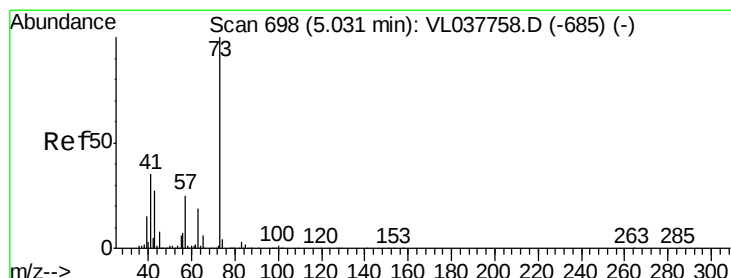
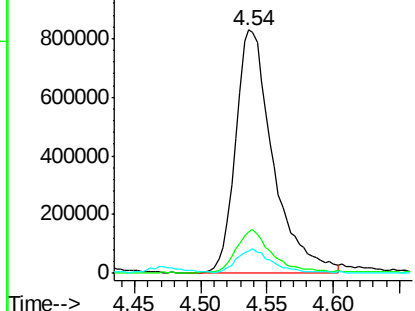
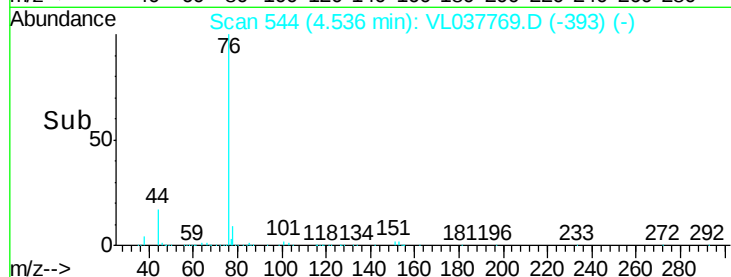
78 9.9 7.8 11.6



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.903 ppbv

RT: 5.02 min Scan# 694

Delta R.T. -0.01 min

Lab File: VL037769.D

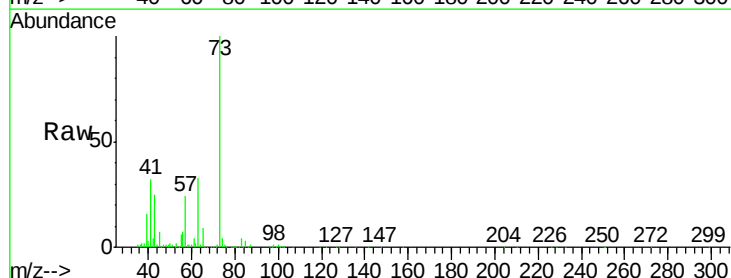
Acq: 5 Oct 2021 11:28

Tgt Ion: 73 Resp: 1395773

Ion Ratio Lower Upper

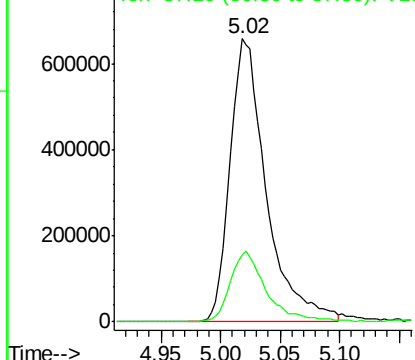
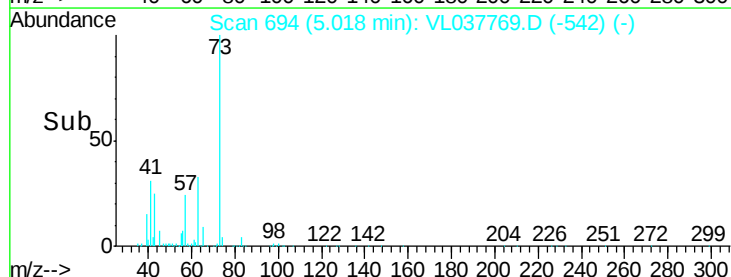
73 100

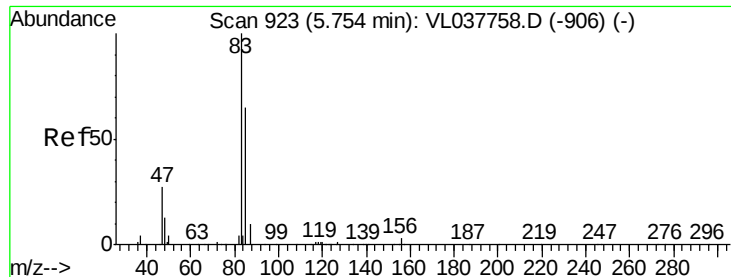
57 24.8 20.4 30.6



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

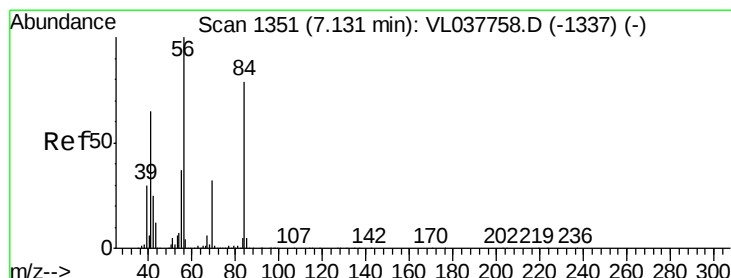
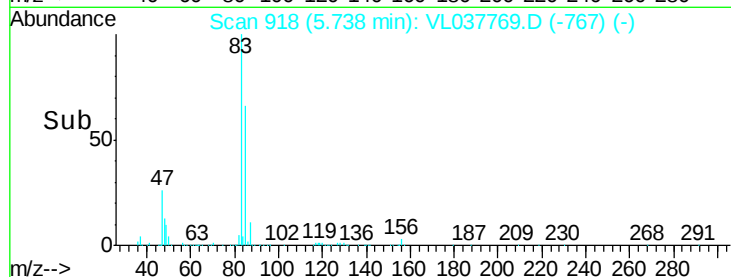
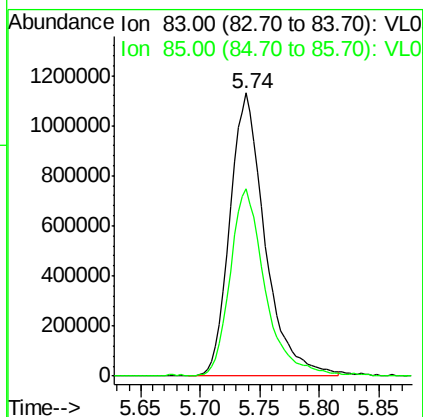
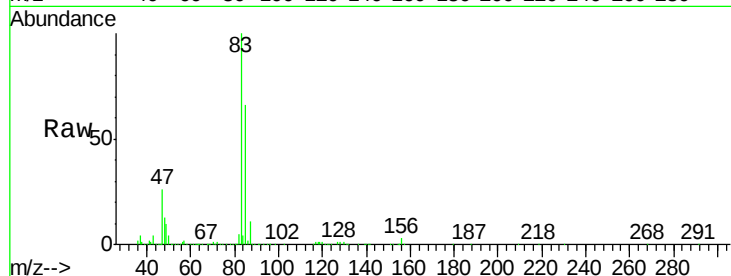




#29
Chloroform
Concen: 9.580 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.02 min
Lab File: VL037769.D
Acq: 5 Oct 2021 11:28

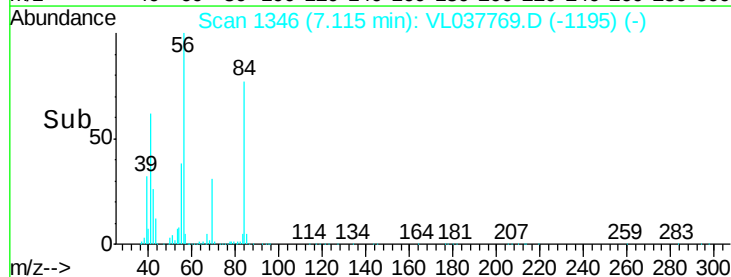
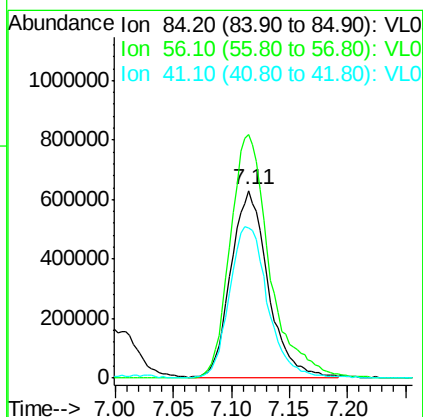
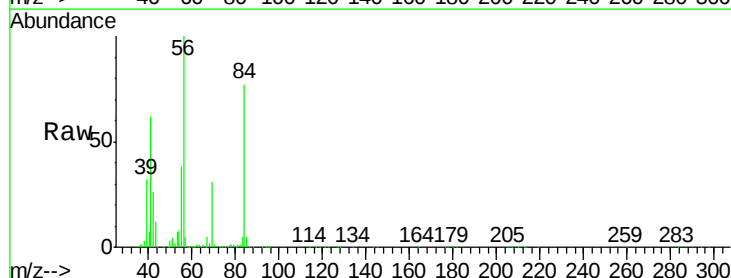
Instrument :
MSVOA_L
ClientSampleId :
VL1005ABS01

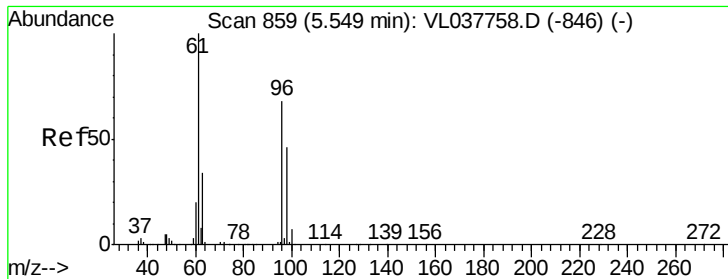
Tgt Ion: 83 Resp: 2318099
Ion Ratio Lower Upper
83 100
85 66.1 51.8 77.8



#30
Cyclohexane
Concen: 9.837 ppbv
RT: 7.11 min Scan# 1346
Delta R.T. -0.02 min
Lab File: VL037769.D
Acq: 5 Oct 2021 11:28

Tgt Ion: 84 Resp: 1412141
Ion Ratio Lower Upper
84 100
56 137.4 113.0 169.4
41 82.7 69.1 103.7



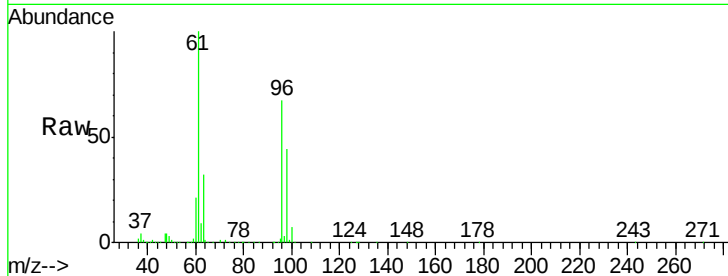


#31

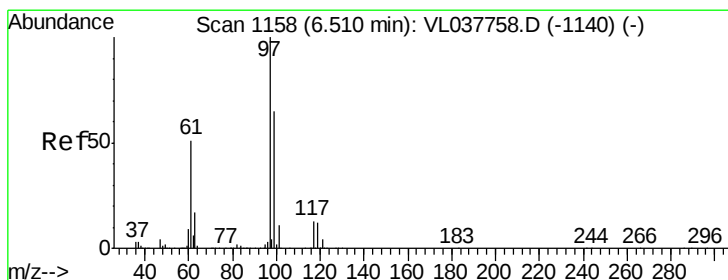
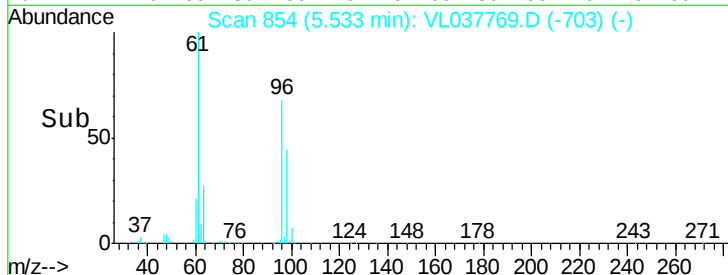
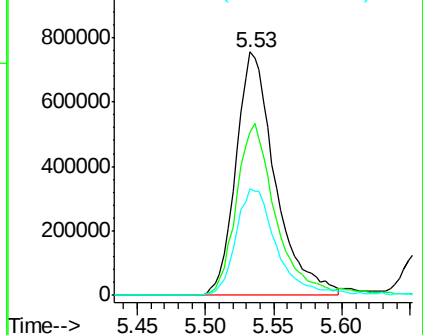
cis-1,2-Dichloroethene
 Concen: 9.797 ppbv
 RT: 5.53 min Scan# 854
 Delta R.T. -0.02 min
 Lab File: VL037769.D
 Acq: 5 Oct 2021 11:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1005ABS01

Tgt Ion: 61 Resp: 1505551
 Ion Ratio Lower Upper
 61 100
 96 66.8 54.2 81.2
 98 44.1 36.6 54.8



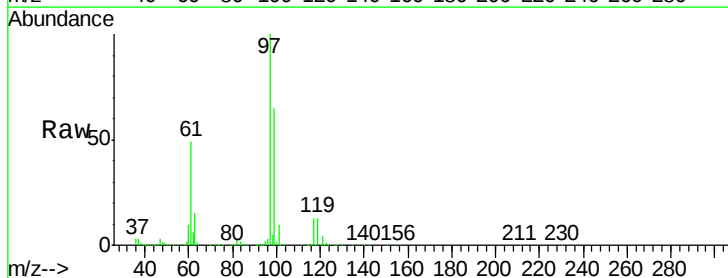
Abundance Ion 61.10 (60.80 to 61.80): VL0
 Ion 96.00 (95.70 to 96.70): VL0
 Ion 98.00 (97.70 to 98.70): VL0



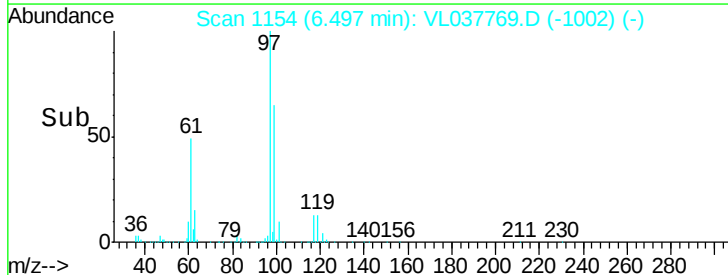
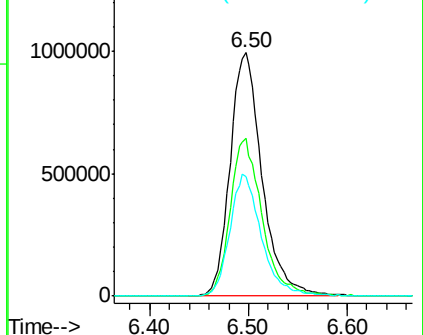
#32

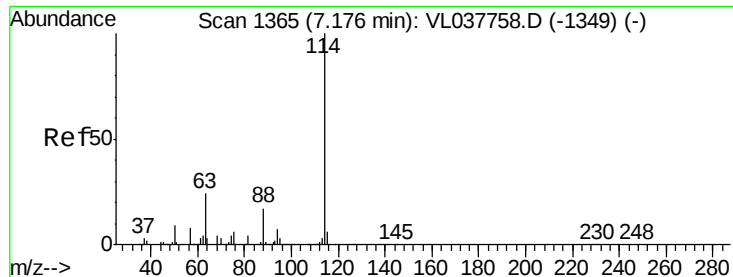
1,1,1-Trichloroethane
 Concen: 9.789 ppbv
 RT: 6.50 min Scan# 1154
 Delta R.T. -0.01 min
 Lab File: VL037769.D
 Acq: 5 Oct 2021 11:28

Tgt Ion: 97 Resp: 2245619
 Ion Ratio Lower Upper
 97 100
 99 64.9 52.6 78.8
 61 49.6 40.2 60.4



Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0
 Ion 61.10 (60.80 to 61.80): VL0

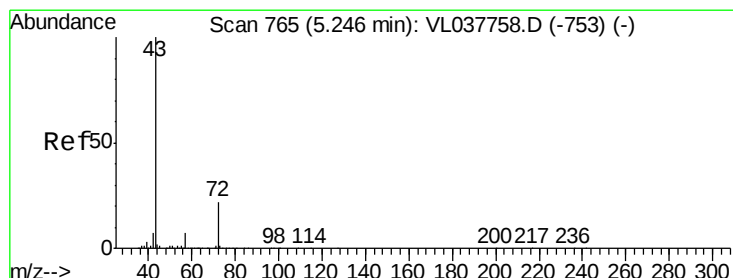
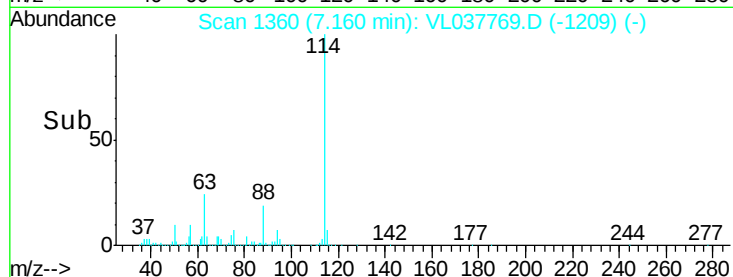
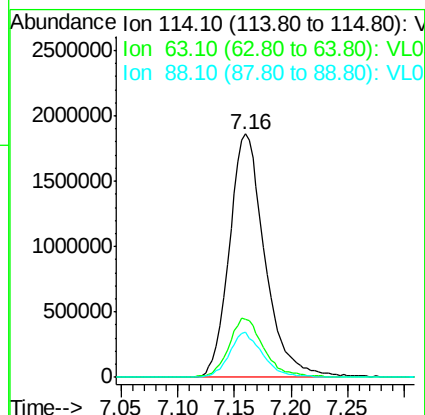
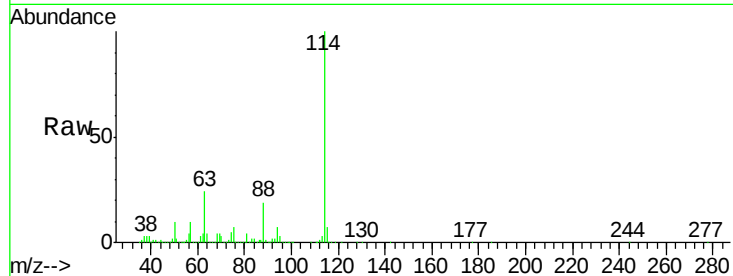




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16 min Scan# 1360
 Delta R.T. -0.02 min
 Lab File: VL037769.D
 Acq: 5 Oct 2021 11:28

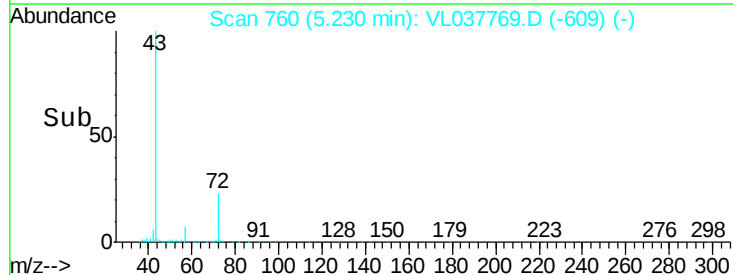
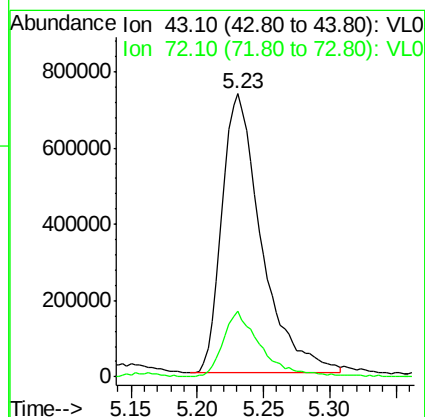
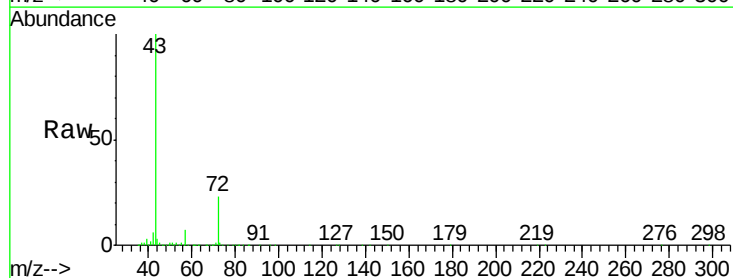
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1005ABS01

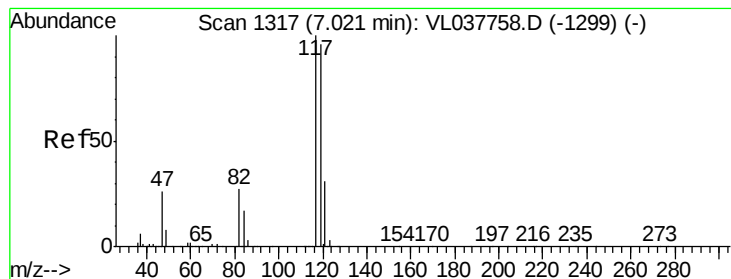
Tgt Ion:114 Resp: 4056193
 Ion Ratio Lower Upper
 114 100
 63 24.4 19.4 29.2
 88 17.6 14.4 21.6



#34
 2-Butanone
 Concen: 9.341 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.02 min
 Lab File: VL037769.D
 Acq: 5 Oct 2021 11:28

Tgt Ion: 43 Resp: 1529580
 Ion Ratio Lower Upper
 43 100
 72 22.6 18.2 27.2





#35

Carbon Tetrachloride

Concen: 10.154 ppbv

RT: 7.01 min Scan# 1312

Delta R.T. -0.02 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

Instrument :

MSVOA_L

ClientSampleId :

VL1005ABS01

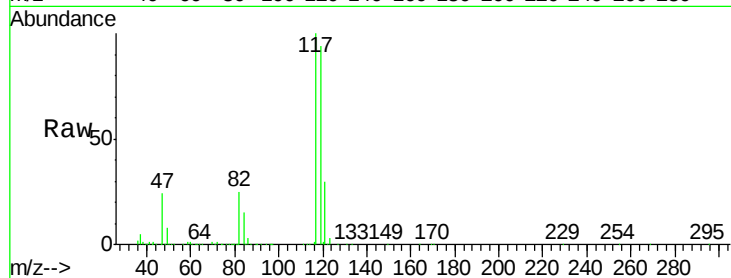
Tgt Ion:117 Resp: 2339057

Ion Ratio Lower Upper

117 100

119 94.0 76.5 114.7

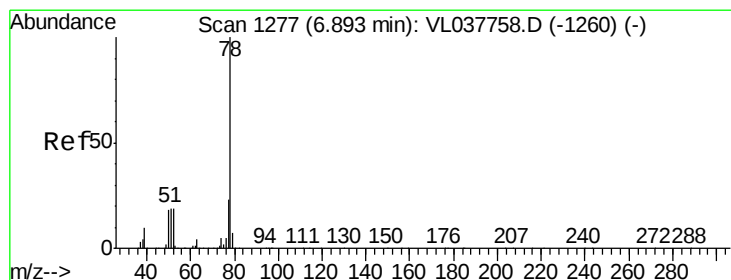
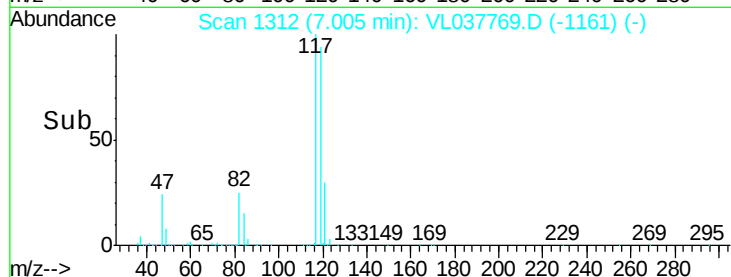
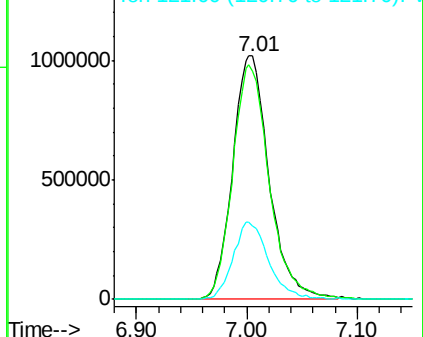
121 30.0 24.9 37.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.876 ppbv

RT: 6.87 min Scan# 1271

Delta R.T. -0.02 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

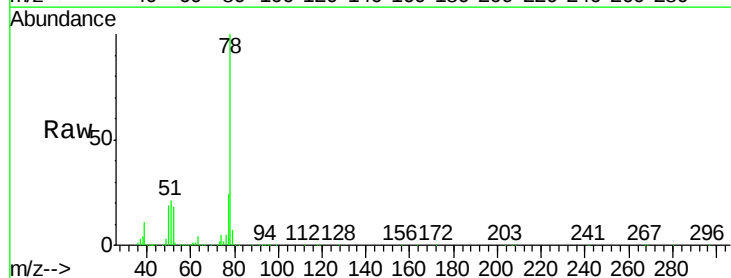
Tgt Ion: 78 Resp: 3421718

Ion Ratio Lower Upper

78 100

77 23.6 18.8 28.2

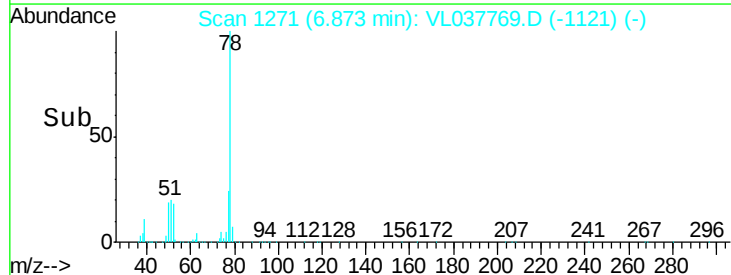
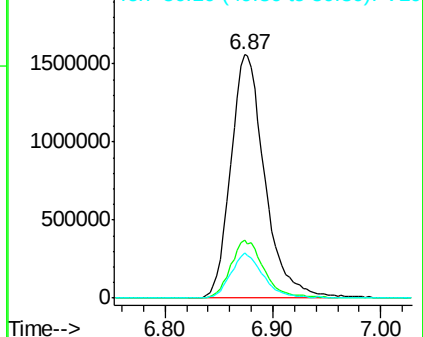
50 18.5 14.7 22.1

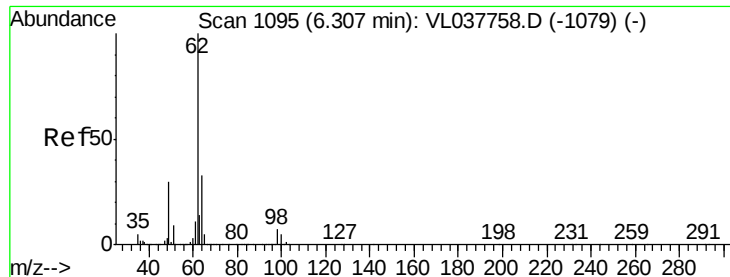


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

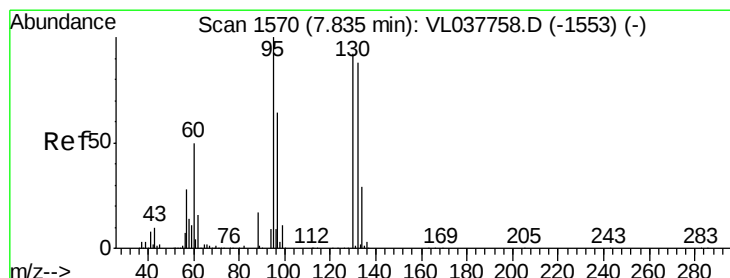
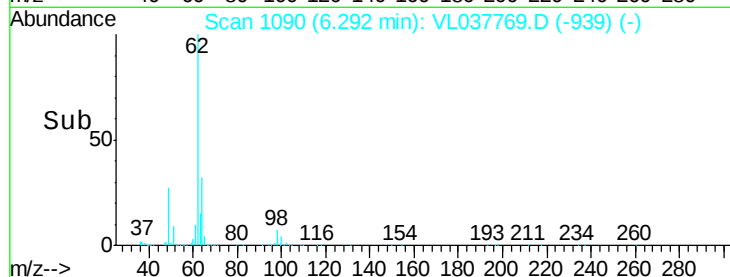
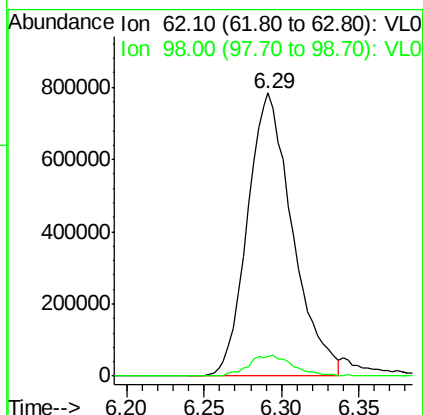
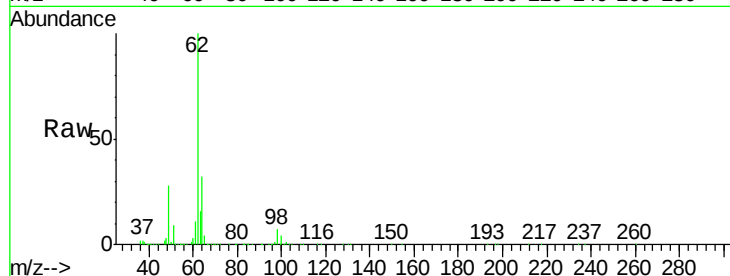




#37
 1,2-Dichloroethane
 Concen: 9.744 ppbv
 RT: 6.29 min Scan# 1090
 Delta R.T. -0.02 min
 Lab File: VL037769.D
 Acq: 5 Oct 2021 11:28

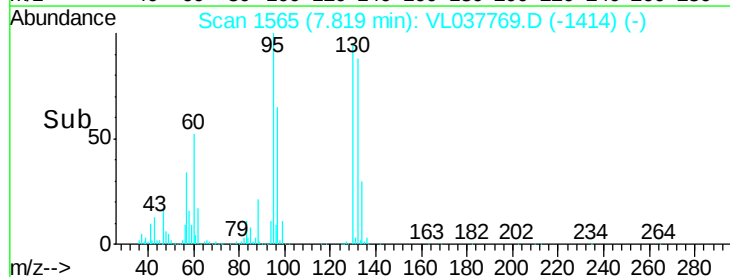
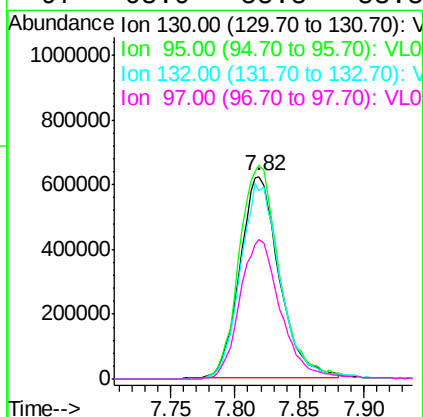
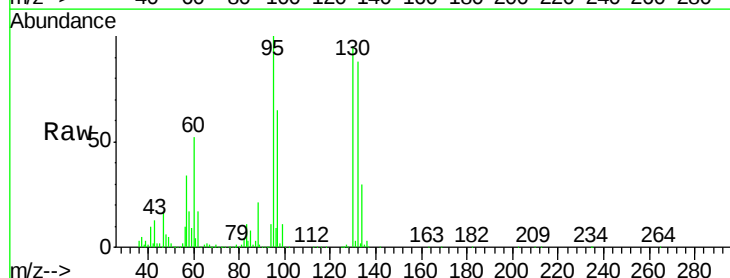
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1005ABS01

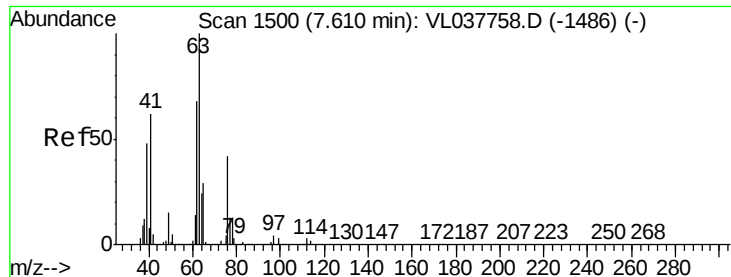
Tgt Ion: 62 Resp: 1589518
 Ion Ratio Lower Upper
 62 100
 98 7.7 6.1 9.1



#38
 Trichloroethene
 Concen: 9.721 ppbv
 RT: 7.82 min Scan# 1565
 Delta R.T. -0.02 min
 Lab File: VL037769.D
 Acq: 5 Oct 2021 11:28

Tgt Ion: 130 Resp: 1330508
 Ion Ratio Lower Upper
 130 100
 95 105.9 87.4 131.0
 132 93.6 76.8 115.2
 97 68.9 55.8 83.8

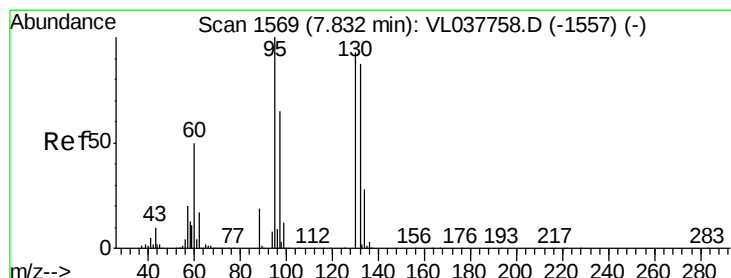
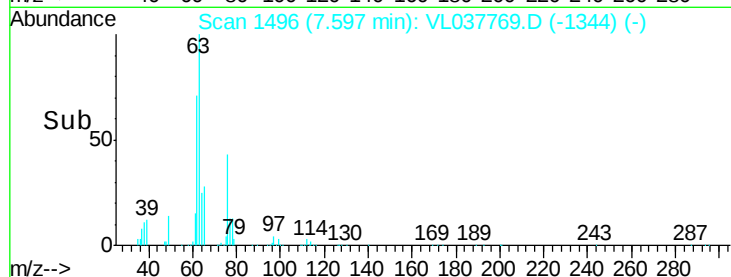
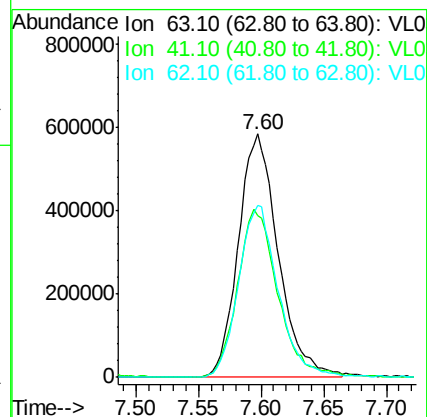
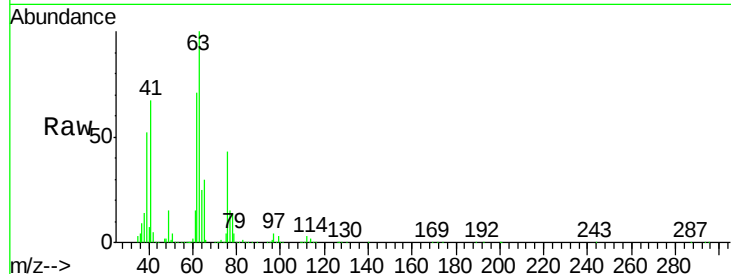




#39
 1,2-Dichloropropane
 Concen: 9.876 ppbv
 RT: 7.60 min Scan# 1496
 Delta R.T. -0.01 min
 Lab File: VL037769.D
 Acq: 5 Oct 2021 11:28

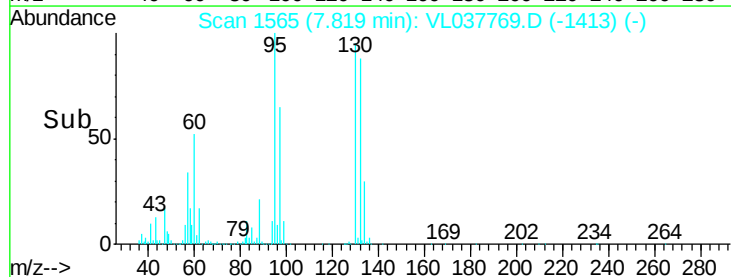
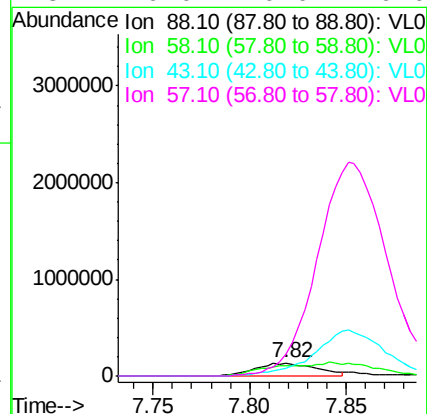
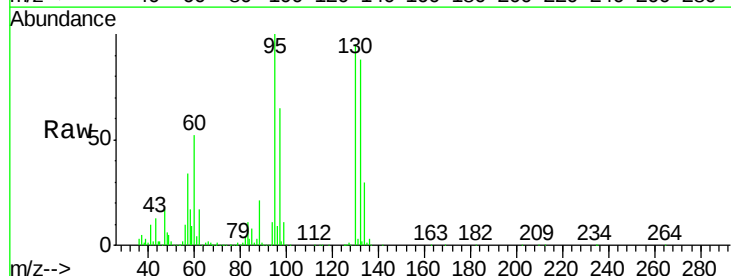
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1005ABS01

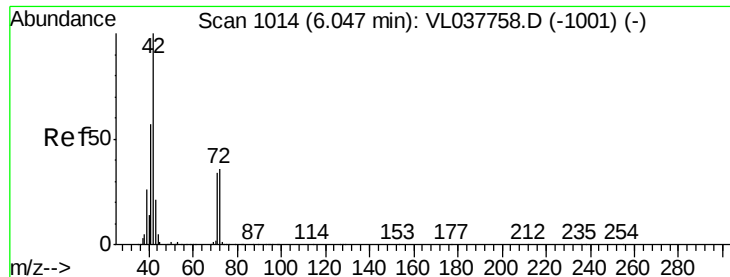
Tgt Ion: 63 Resp: 1287056
 Ion Ratio Lower Upper
 63 100
 41 66.5 49.8 74.6
 62 70.6 54.6 82.0



#40
 1,4-Dioxane
 Concen: 8.954 ppbv
 RT: 7.82 min Scan# 1565
 Delta R.T. -0.01 min
 Lab File: VL037769.D
 Acq: 5 Oct 2021 11:28

Tgt Ion: 88 Resp: 291980
 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





#41

Tetrahydrofuran

Concen: 10.114 ppbv

RT: 6.03 min Scan# 1010

Delta R.T. -0.01 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

Instrument :

MSVOA_L

ClientSampleId :

VL1005ABS01

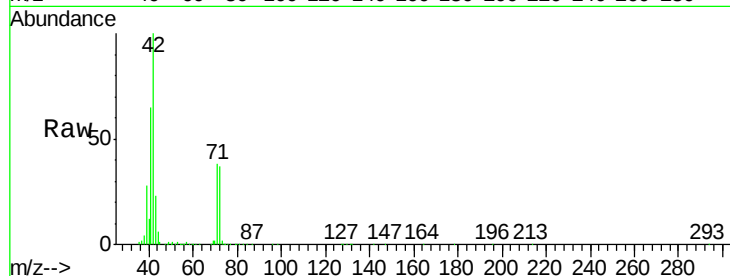
Tgt Ion: 42 Resp: 810967

Ion Ratio Lower Upper

42 100

72 38.8 31.9 47.9

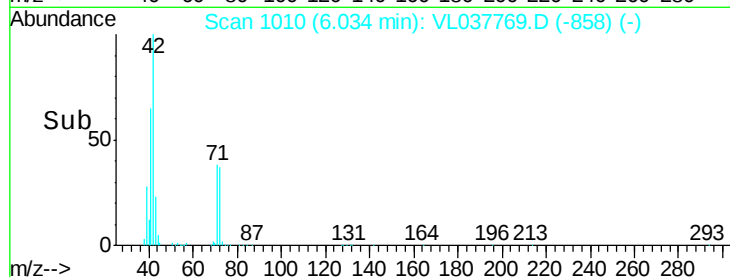
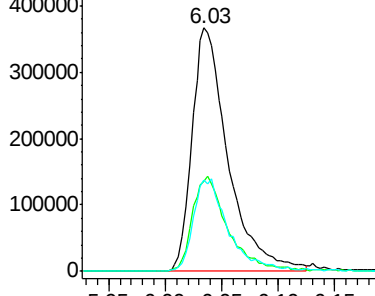
71 38.0 30.3 45.5



Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 10.410 ppbv

RT: 7.77 min Scan# 1551

Delta R.T. -0.02 min

Lab File: VL037769.D

Acq: 5 Oct 2021 11:28

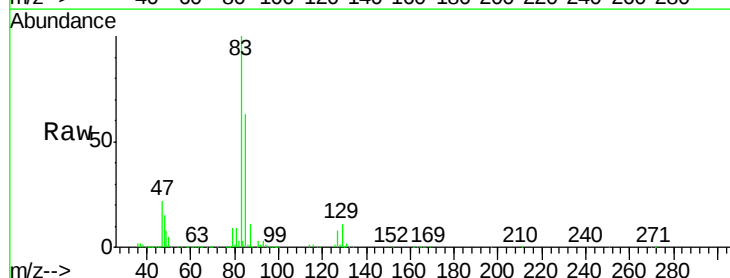
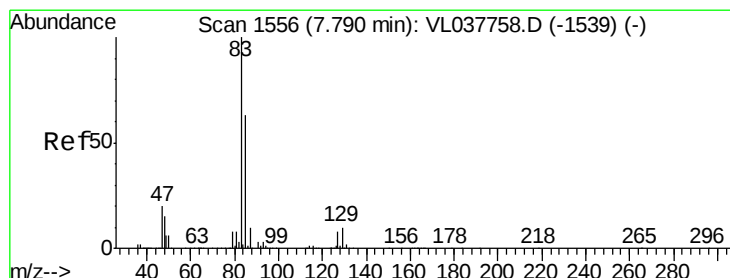
Tgt Ion: 83 Resp: 2494385

Ion Ratio Lower Upper

83 100

85 63.2 50.6 75.8

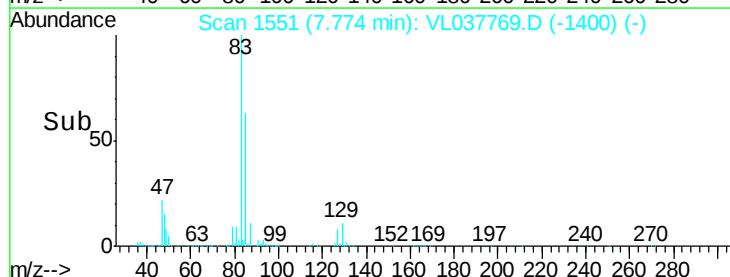
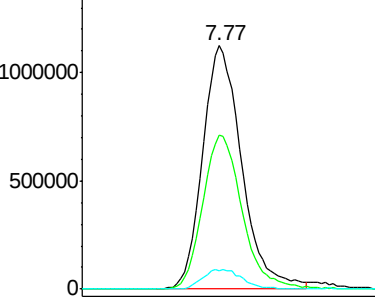
127 7.7 6.2 9.4

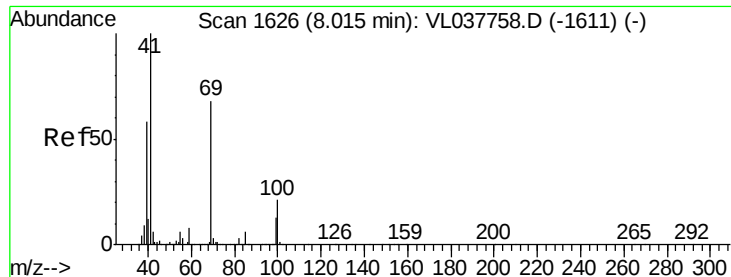


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): V

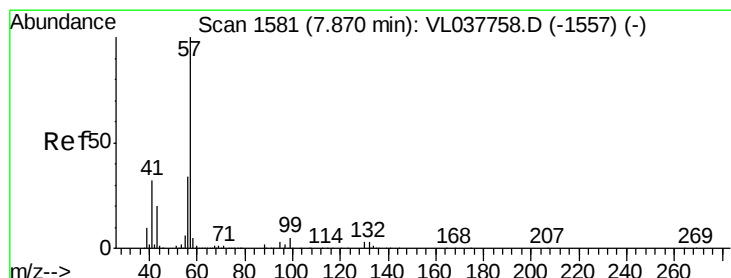
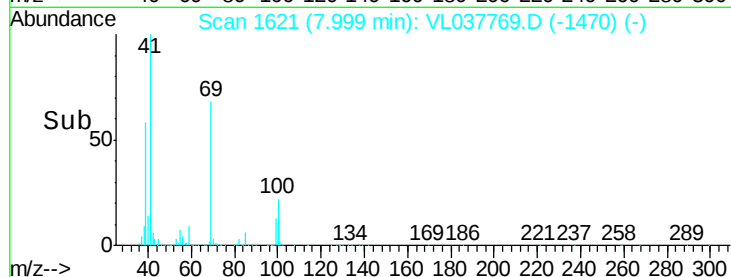
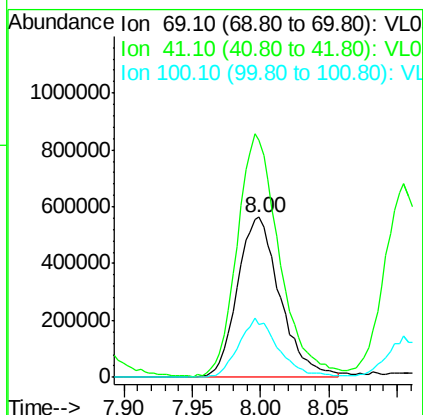
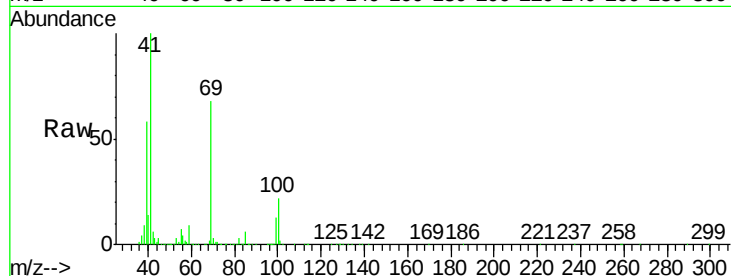




#43
Methyl Methacrylate
Concen: 10.849 ppbv
RT: 8.00 min Scan# 1621
Delta R.T. -0.02 min
Lab File: VL037769.D
Acq: 5 Oct 2021 11:28

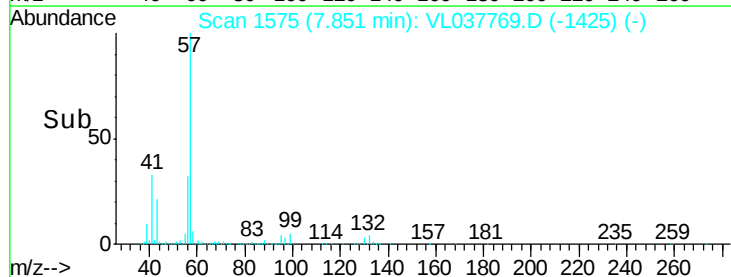
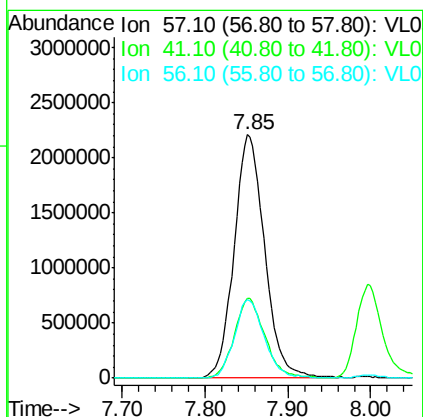
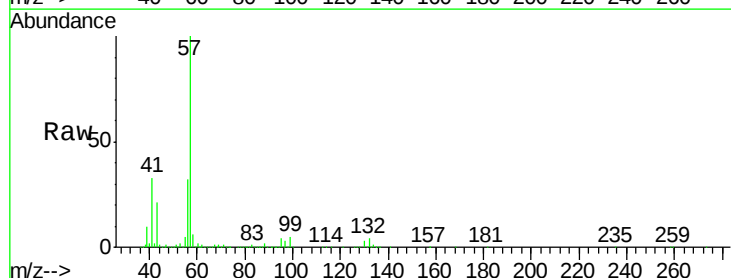
Instrument :
MSVOA_L
ClientSampleId :
VL1005ABS01

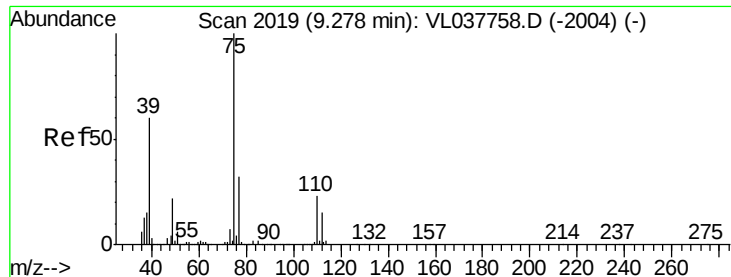
Tgt Ion: 69 Resp: 1227690
Ion Ratio Lower Upper
69 100
41 150.9 121.0 181.4
100 34.6 27.7 41.5



#44
2,2,4-Trimethylpentane
Concen: 9.752 ppbv
RT: 7.85 min Scan# 1575
Delta R.T. -0.02 min
Lab File: VL037769.D
Acq: 5 Oct 2021 11:28

Tgt Ion: 57 Resp: 5676389
Ion Ratio Lower Upper
57 100
41 32.8 25.6 38.4
56 31.6 25.5 38.3

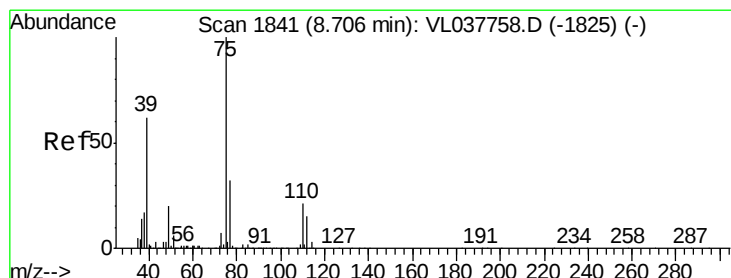
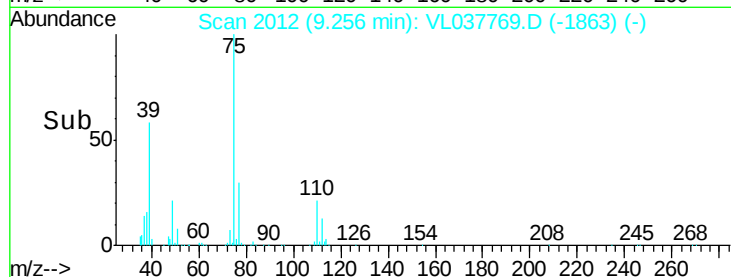
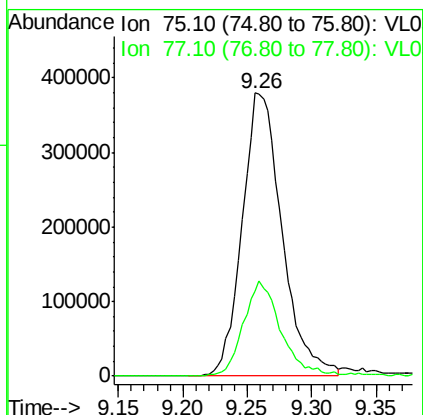
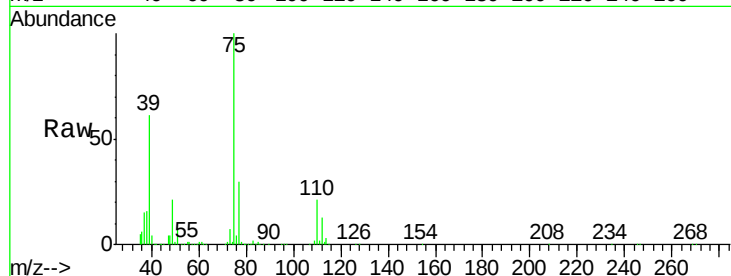




#45
t-1,3-Dichloropropene
Concen: 10.483 ppbv
RT: 9.26 min Scan# 2012
Delta R.T. -0.02 min
Lab File: VL037769.D
Acq: 5 Oct 2021 11:28

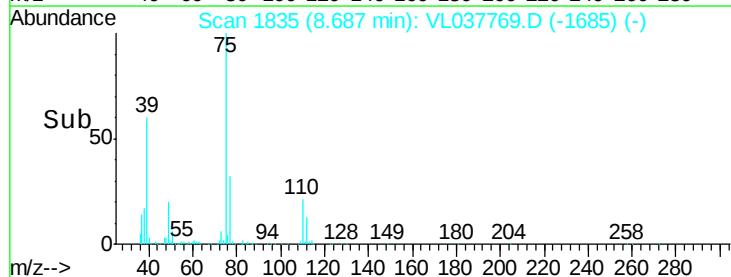
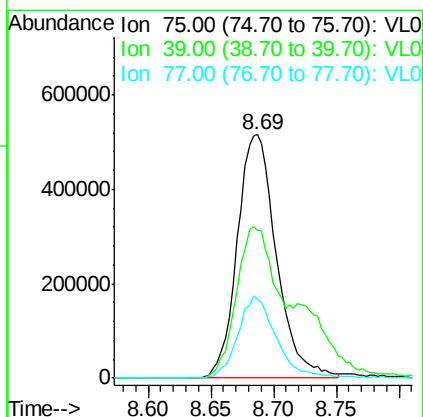
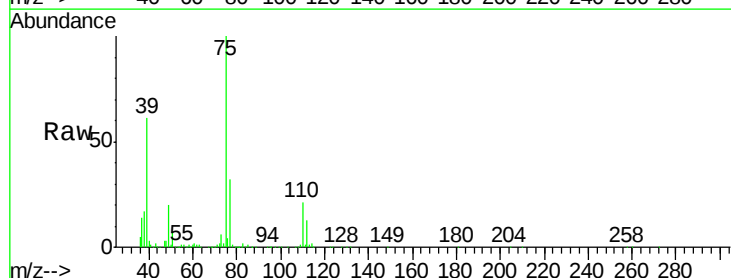
Instrument :
MSVOA_L
ClientSampleId :
VL1005ABS01

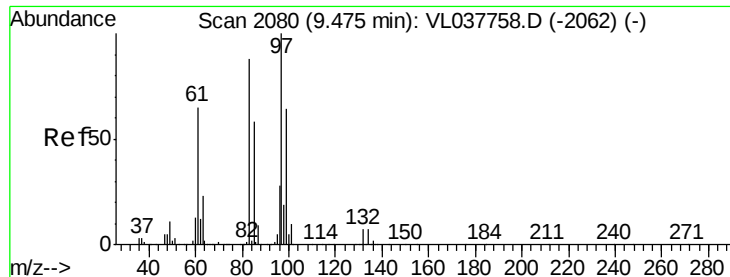
Tgt Ion: 75 Resp: 816214
Ion Ratio Lower Upper
75 100
77 29.9 25.2 37.8



#46
cis-1,3-Dichloropropene
Concen: 10.388 ppbv
RT: 8.69 min Scan# 1835
Delta R.T. -0.02 min
Lab File: VL037769.D
Acq: 5 Oct 2021 11:28

Tgt Ion: 75 Resp: 1121064
Ion Ratio Lower Upper
75 100
39 60.3 49.9 74.9
77 32.1 25.9 38.9

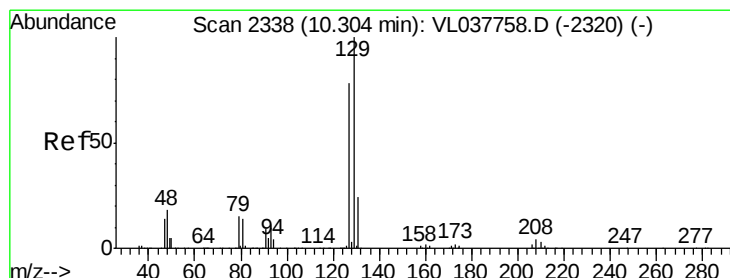
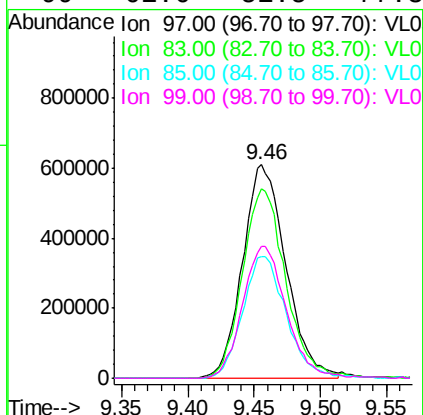
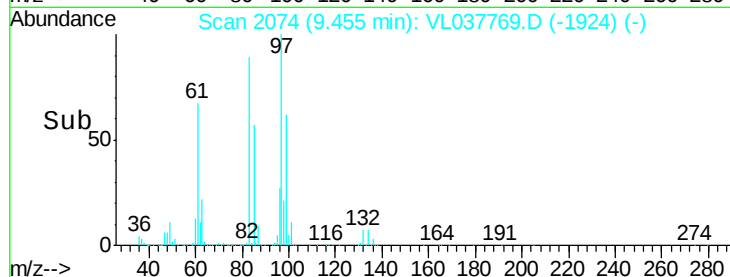
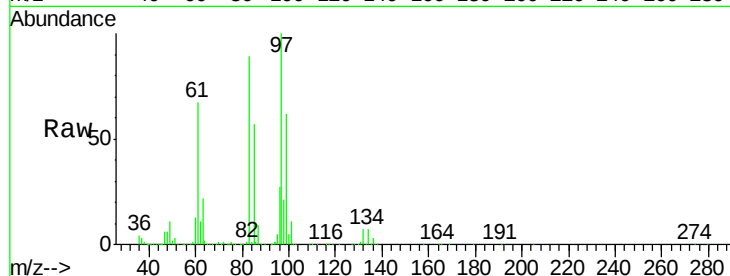




#47
 1,1,2-Trichloroethane
 Concen: 9.786 ppbv
 RT: 9.46 min Scan# 2074
 Delta R.T. -0.02 min
 Lab File: VL037769.D
 Acq: 5 Oct 2021 11:28

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1005ABS01

Tgt Ion: 97 Resp: 1386338
 Ion Ratio Lower Upper
 97 100
 83 88.5 70.6 105.8
 85 56.6 45.9 68.9
 99 61.6 51.5 77.3



#48
 Dibromochloromethane
 Concen: 11.008 ppbv
 RT: 10.28 min Scan# 2332
 Delta R.T. -0.02 min
 Lab File: VL037769.D
 Acq: 5 Oct 2021 11:28

Tgt Ion: 129 Resp: 2223121
 Ion Ratio Lower Upper
 129 100
 127 79.5 39.5 118.5

