

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032422\
 Data File : VL038761.D
 Acq On : 25 Mar 2022 11:39
 Operator : SY/AP
 Sample : N2096-01 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-01-(SB-14)DL

Quant Time: Mar 25 23:21:32 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	762766	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.20	114	2115528	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.11	117	1916649	10.00	ppbv	0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	1453033	9.89	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

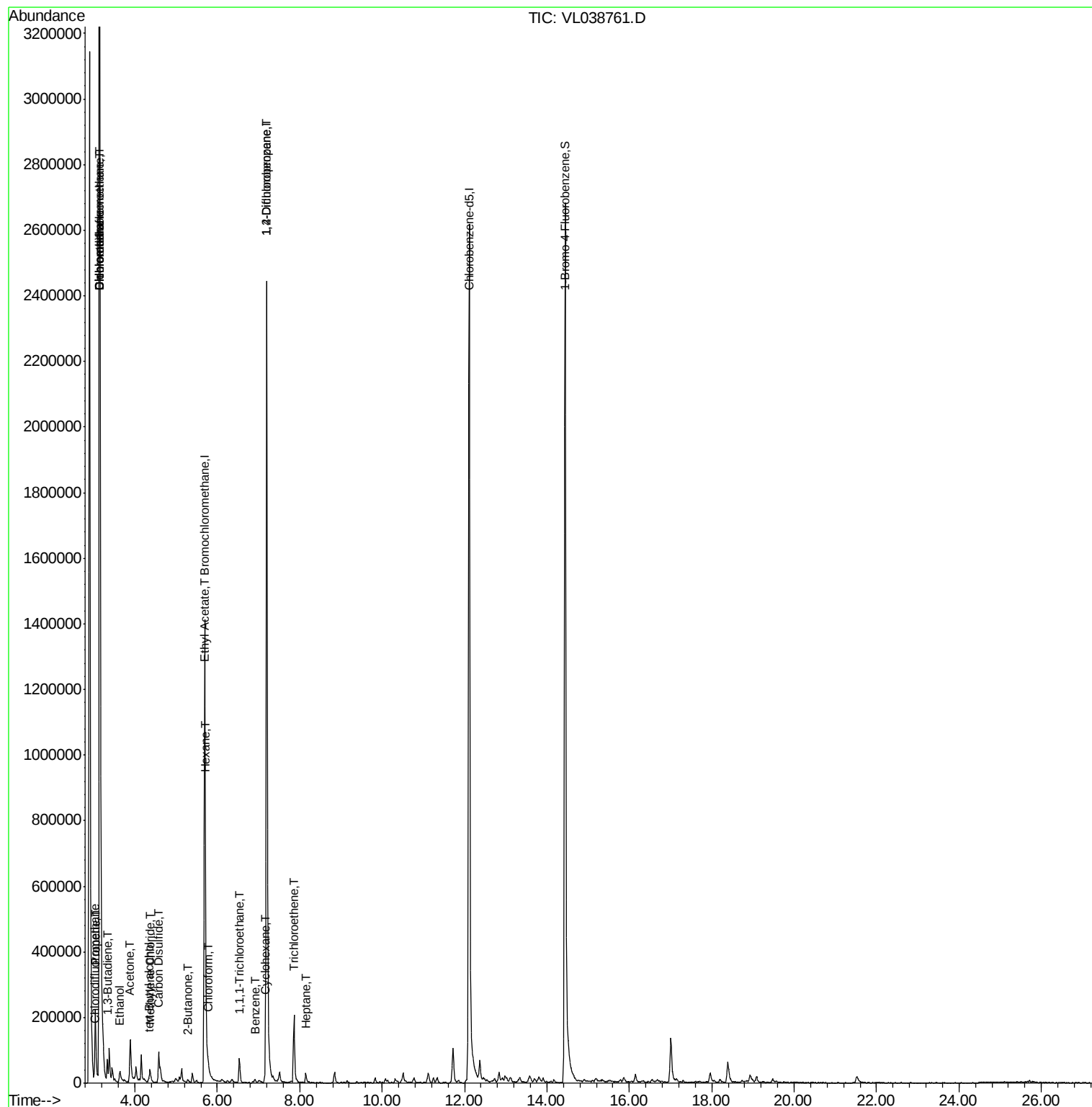
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.14	85	675884	6.59	ppbv	99
3) Chlorodifluoromethane	3.01	51	3187	0.04	ppbv #	60
4) Chloromethane	3.14	50	79223	1.79	ppbv #	45
7) Chloroethane	3.14	64	439456	29.54	ppbv	96
8) Dichlorotetrafluoroethane	3.14	85	675884	6.60	ppbv #	13
9) Propene	3.03	41	28870	0.74	ppbv #	34
10) Heptane	8.15	43	8706	0.09	ppbv	86
13) Ethanol	3.64	45	36762	8.57	ppbv	69
15) Acetone	3.88	43	160648	2.44	ppbv	98
16) 1,3-Butadiene	3.33	39	19914	0.53	ppbv #	31
17) tert-Butyl alcohol	4.34	59	4753	0.08	ppbv #	73
20) Methylene Chloride	4.37	84	14904	0.54	ppbv	98
25) Ethyl Acetate	5.71	43	23825	0.14	ppbv #	84
26) Hexane	5.72	57	27060	0.36	ppbv #	43
27) Carbon Disulfide	4.57	76	132484	1.82	ppbv	96
29) Chloroform	5.78	83	16406	0.14	ppbv	88
30) Cyclohexane	7.16	84	2320	0.04	ppbv #	1
32) 1,1,1-Trichloroethane	6.54	97	45707	0.40	ppbv	97
34) 2-Butanone	5.28	43	12561	0.15	ppbv	99
36) Benzene	6.92	78	5182	0.03	ppbv	96
38) Trichloroethene	7.86	130	74521	1.09	ppbv	92
39) 1,2-Dichloropropane	7.20	63	487794	7.64	ppbv #	29

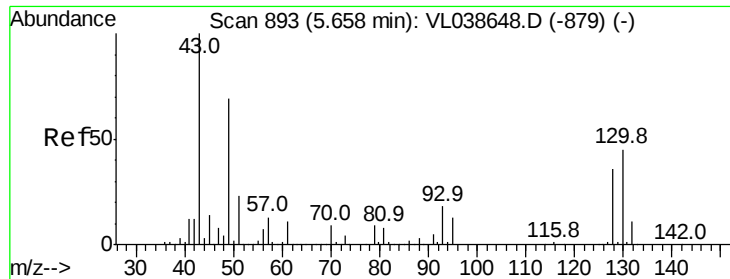
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Mar 21 17:09:26 2022
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.69 Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleID:

Acq: 25 Mar 2022 11:39 SV-01-(SB-14)DL

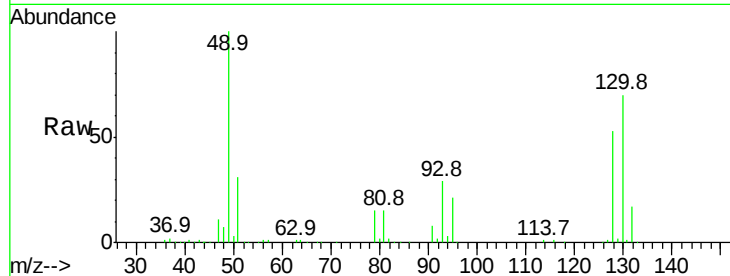
Tgt Ion: 49 Resp: 762766

Ion Ratio Lower Upper

49 100

128 57.5 26.2 78.6

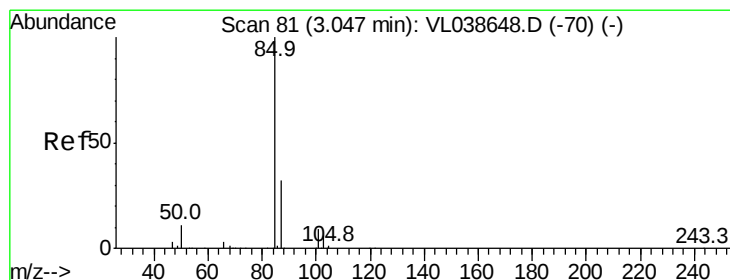
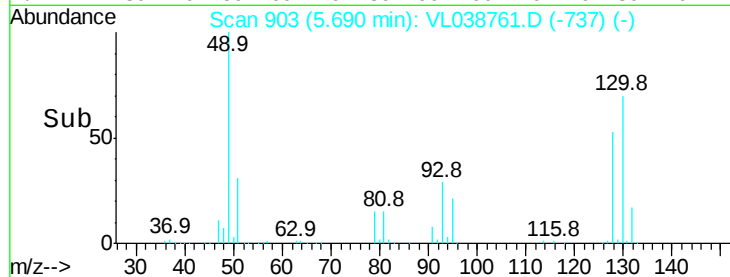
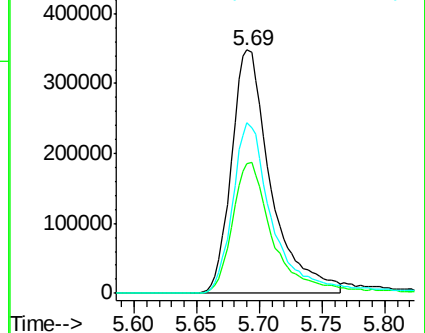
130 72.7 33.7 101.1



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: 6.59 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.10 min

Lab File: VL038761.D

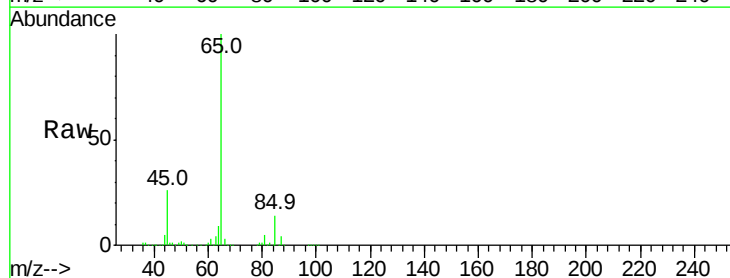
Acq: 25 Mar 2022 11:39

Tgt Ion: 85 Resp: 675884

Ion Ratio Lower Upper

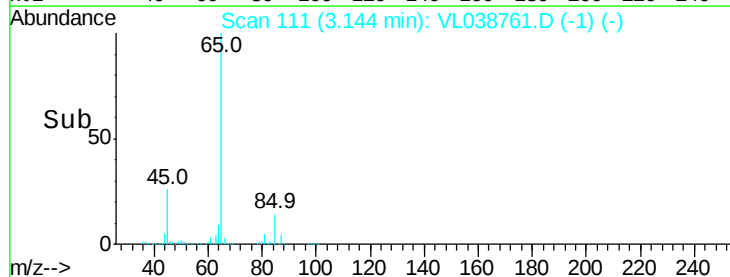
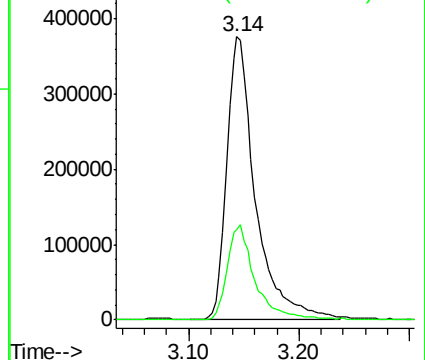
85 100

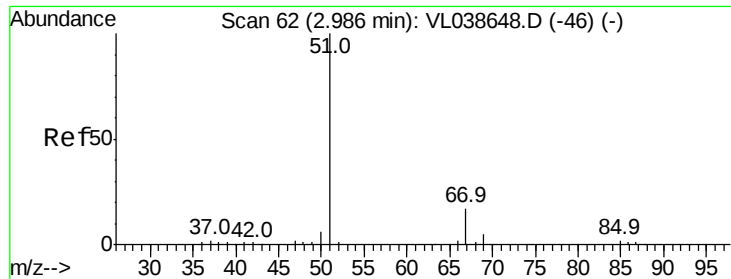
87 31.9 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.04 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

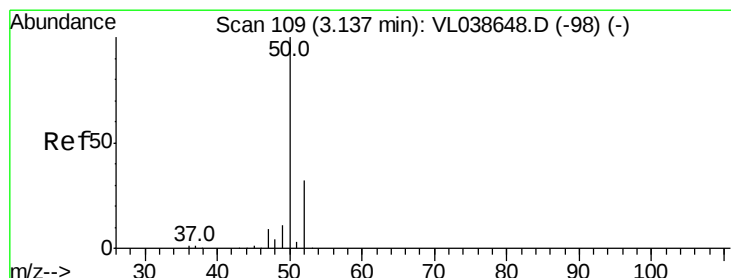
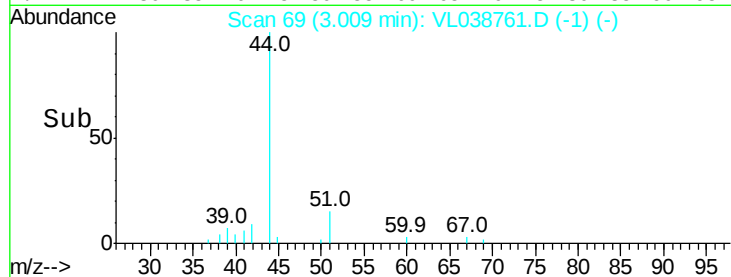
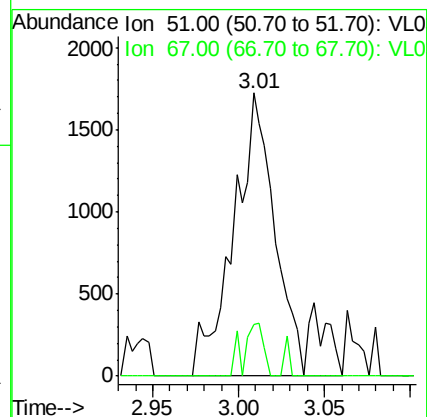
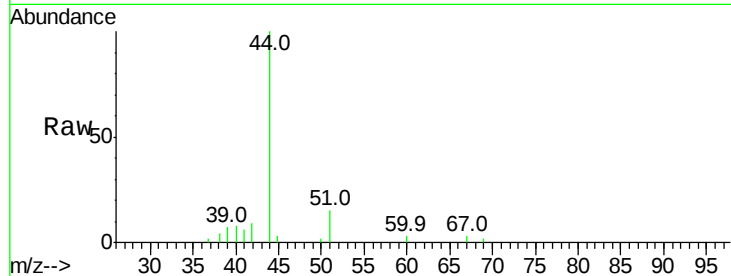
Acq: 25 Mar 2022 11:39 SV-01-(SB-14)DL

Tgt Ion: 51 Resp: 3187

Ion Ratio Lower Upper

51 100

67 0.0 14.1 21.1#



#4

Chloromethane

Concen: 1.79 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL038761.D

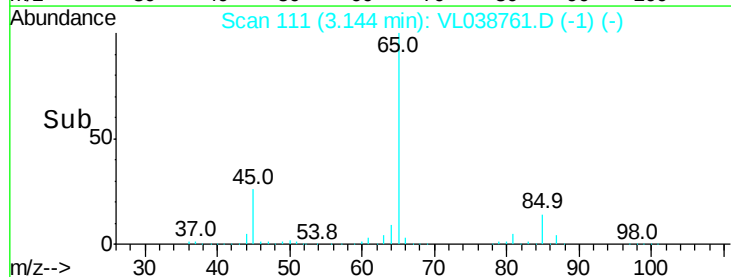
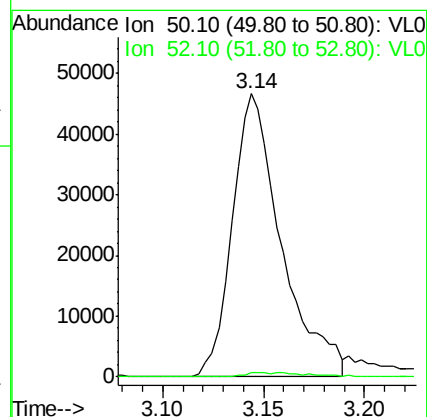
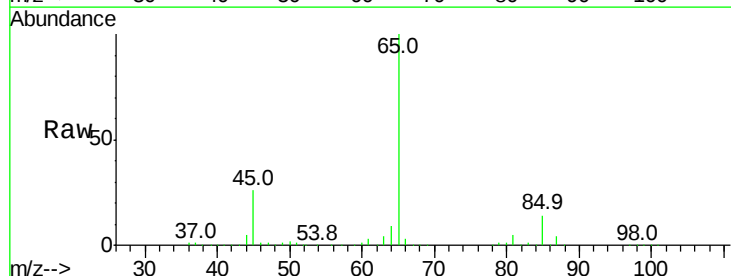
Acq: 25 Mar 2022 11:39

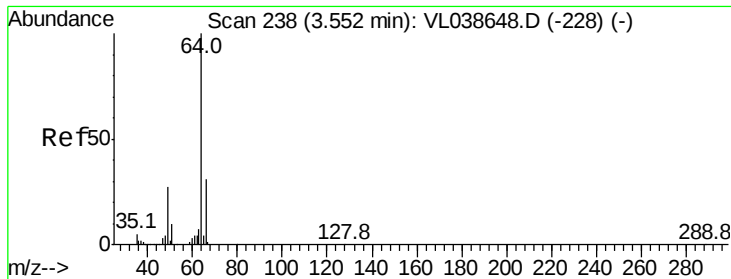
Tgt Ion: 50 Resp: 79223

Ion Ratio Lower Upper

50 100

52 1.4 25.5 38.3#





#7

Chloroethane

Concen: 29.54 ppbv

RT: 3.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

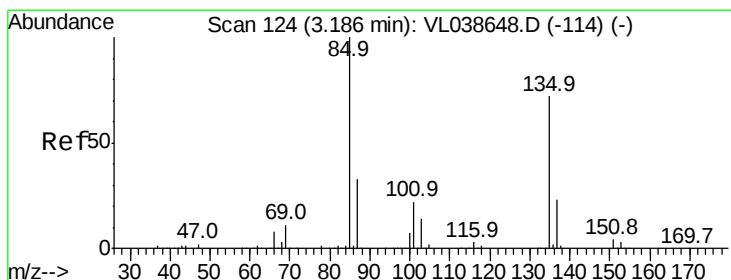
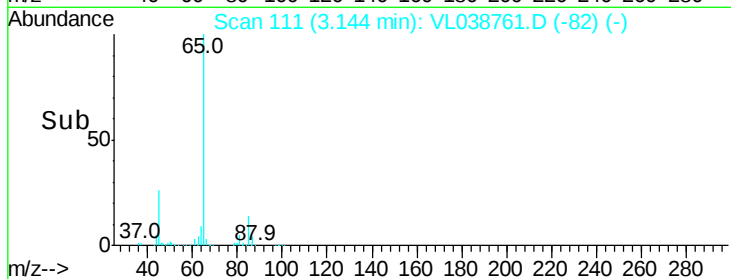
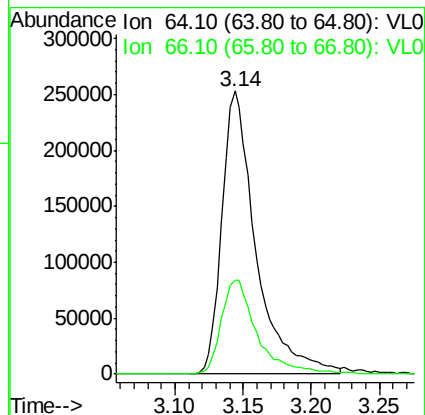
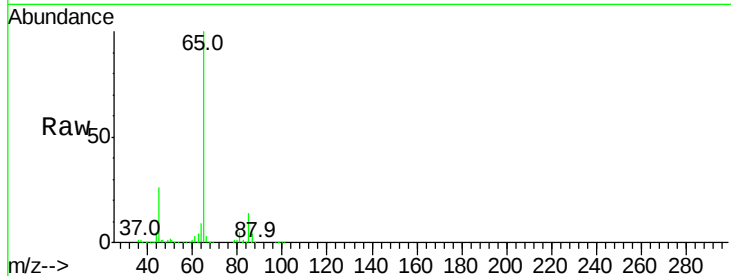
Acq: 25 Mar 2022 11:39 SV-01-(SB-14)DL

Tgt Ion: 64 Resp: 439456

Ion Ratio Lower Upper

64 100

66 33.4 25.0 37.6



#8

Dichlorotetrafluoroethane

Concen: 6.60 ppbv

RT: 3.14 min Scan# 111

Delta R.T. -0.04 min

Lab File: VL038761.D

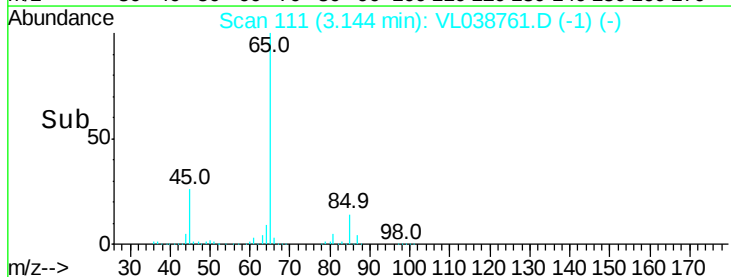
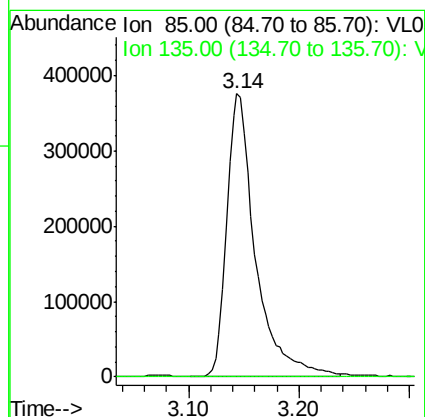
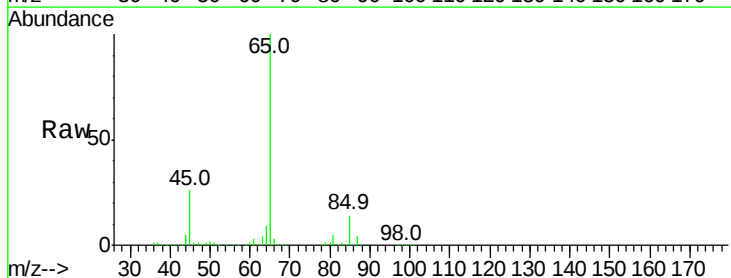
Acq: 25 Mar 2022 11:39

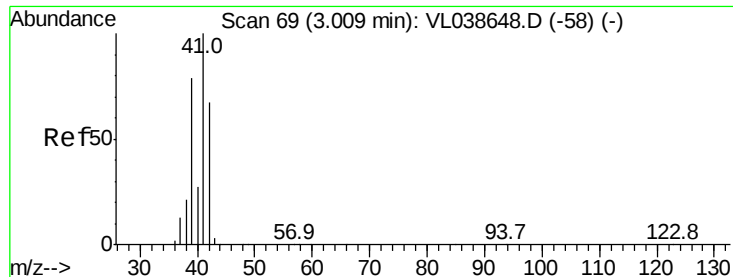
Tgt Ion: 85 Resp: 675884

Ion Ratio Lower Upper

85 100

135 0.0 57.8 86.6#





#9

Propene

Concen: 0.74 ppbv

RT: 3.03

Delta R.T.

Lab File:

Acq: 25 Mar 2022

Instrument: MSVOA_1

ClientSampleId:

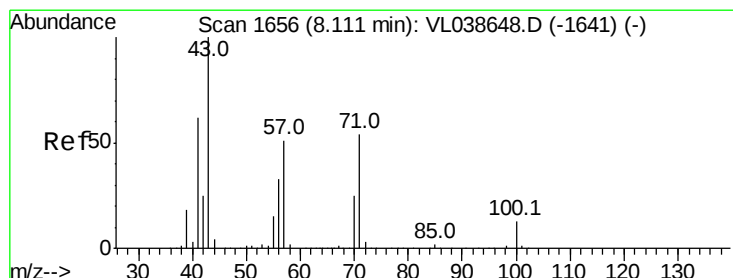
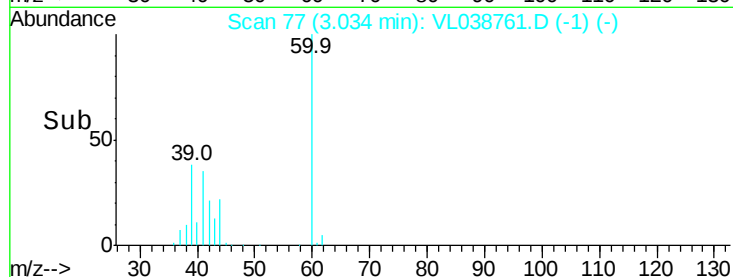
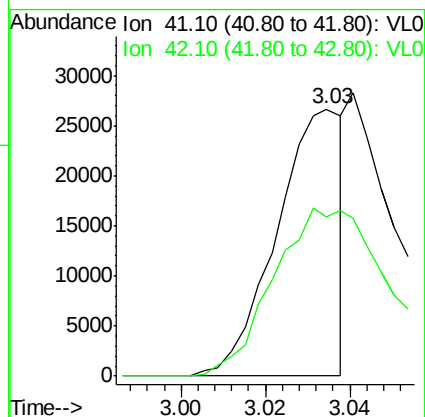
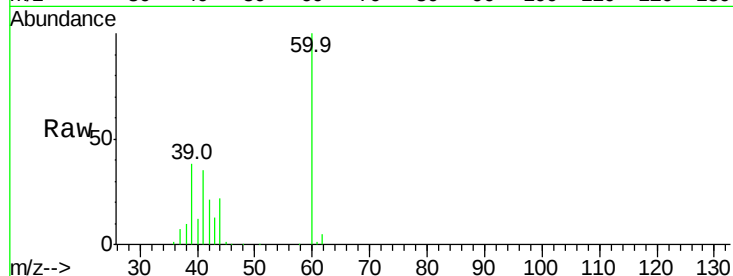
SV-01-(SB-14)DL

Tgt Ion: 41 Resp: 28870

Ion Ratio Lower Upper

41 100

42 124.9 56.2 84.4#



#10

Heptane

Concen: 0.09 ppbv

RT: 8.15 min Scan# 1668

Delta R.T. 0.04 min

Lab File: VL038761.D

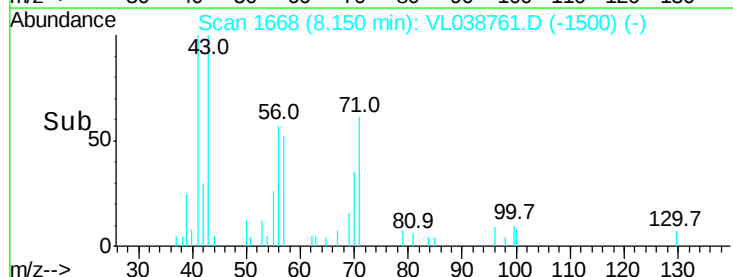
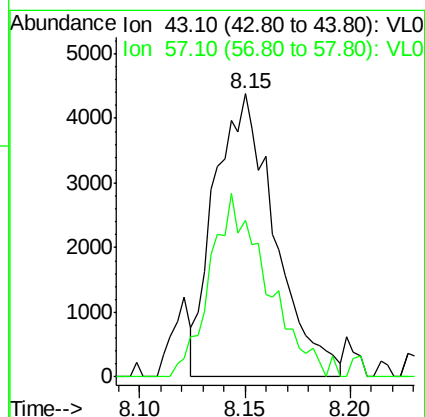
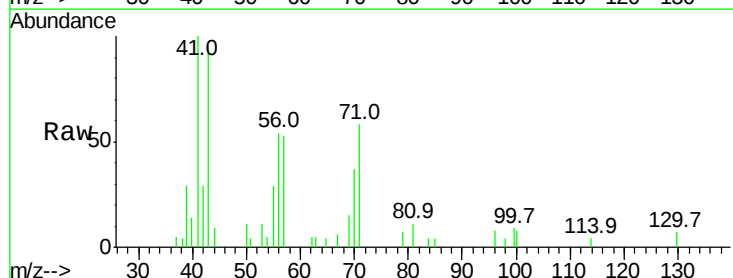
Acq: 25 Mar 2022 11:39

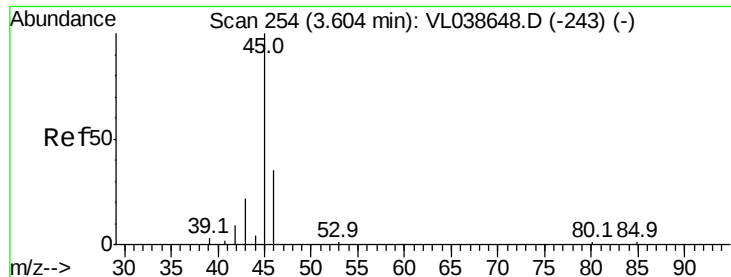
Tgt Ion: 43 Resp: 8706

Ion Ratio Lower Upper

43 100

57 61.6 41.4 62.2





#13

Ethanol

Concen: 8.57 ppbv

RT: 3.64 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

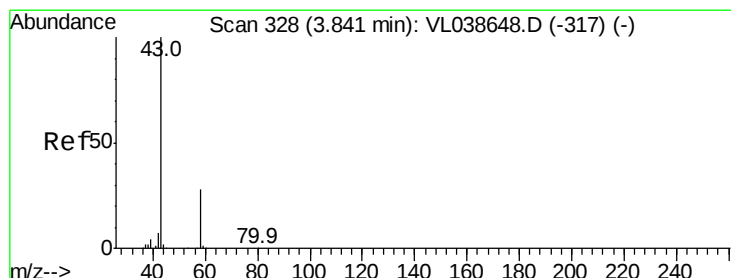
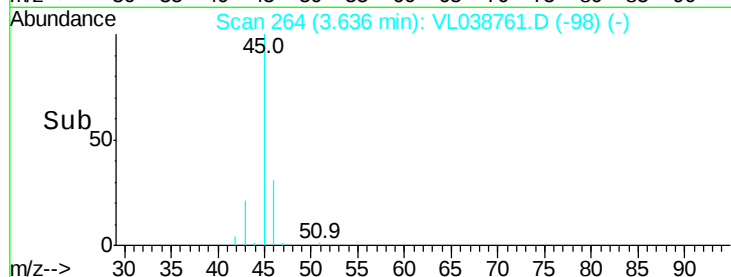
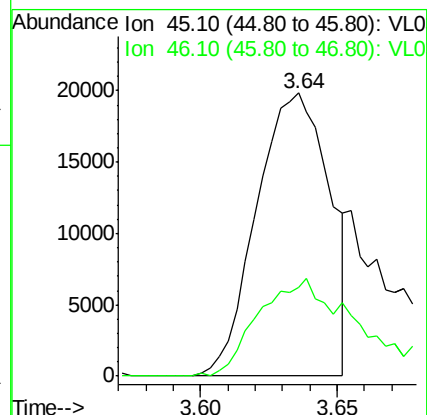
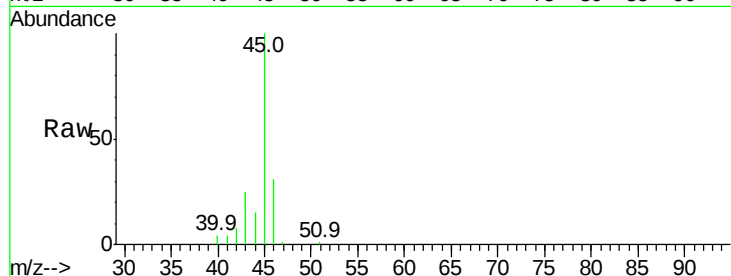
Acq: 25 Mar 2022 11:39 SV-01-(SB-14)DL

Tgt Ion: 45 Resp: 36762

Ion Ratio Lower Upper

45 100

46 56.2 15.1 60.5



#15

Acetone

Concen: 2.44 ppbv

RT: 3.88 min Scan# 340

Delta R.T. 0.04 min

Lab File: VL038761.D

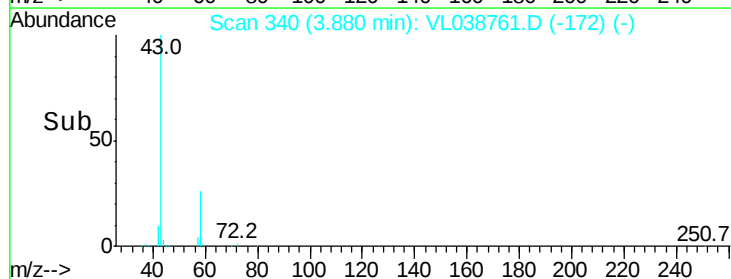
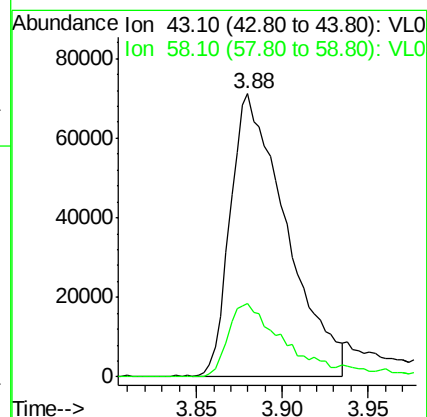
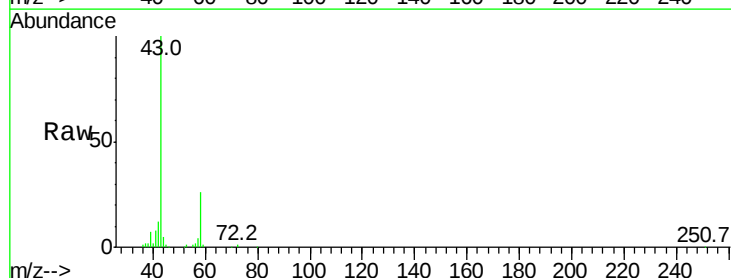
Acq: 25 Mar 2022 11:39

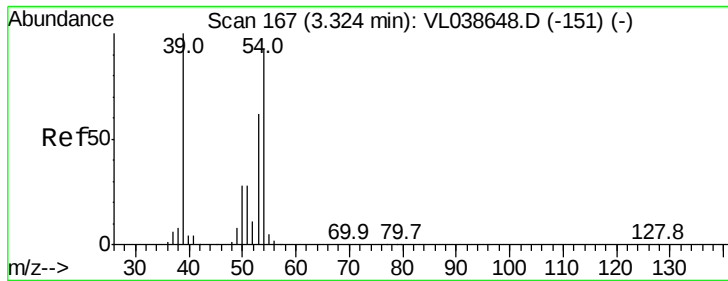
Tgt Ion: 43 Resp: 160648

Ion Ratio Lower Upper

43 100

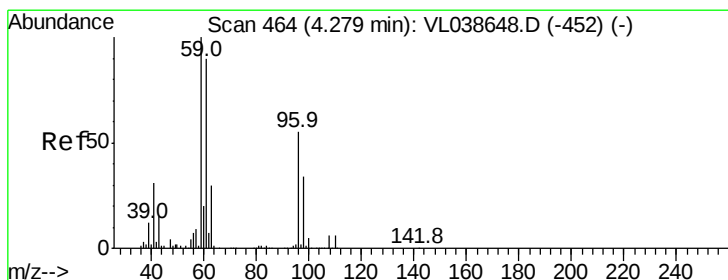
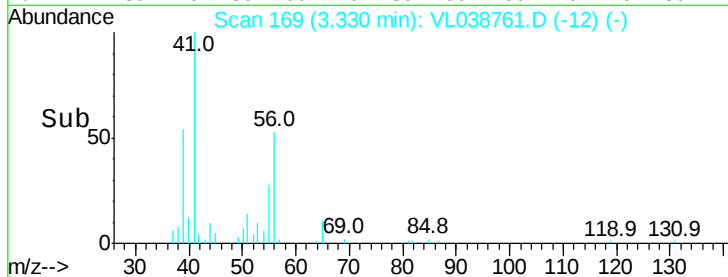
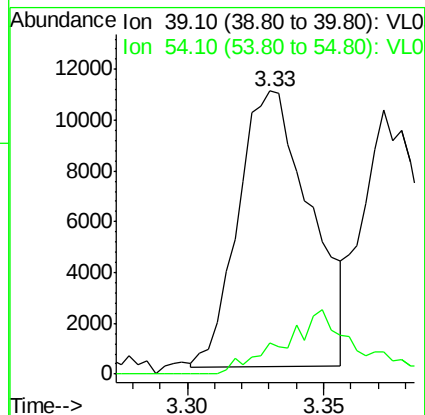
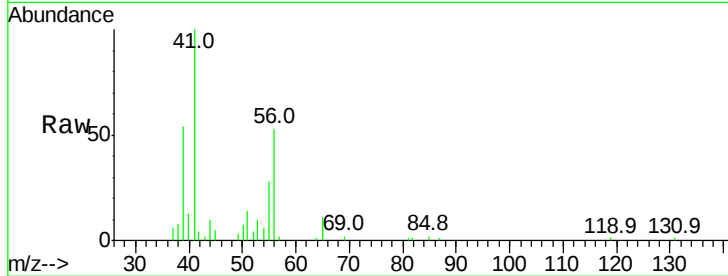
58 30.3 23.3 34.9





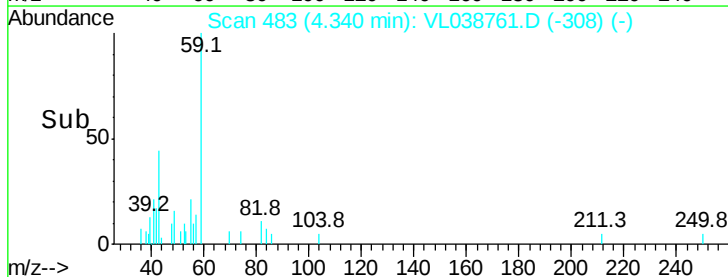
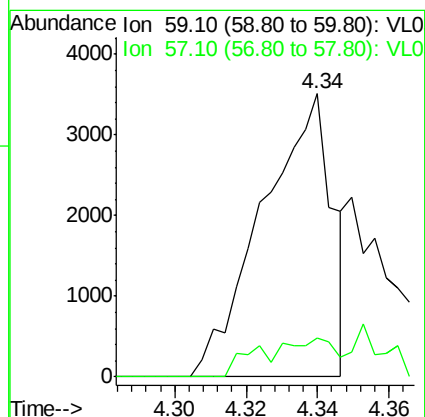
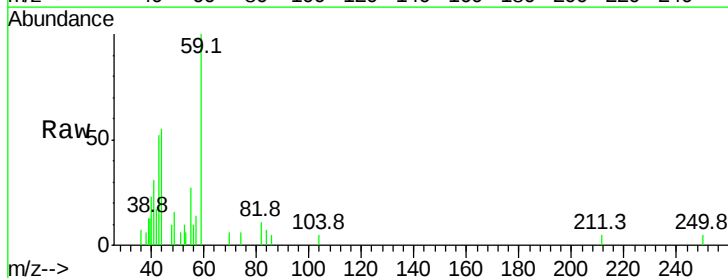
#16
 1,3-Butadiene
 Concen: 0.53 ppbv
 RT: 3.33
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-01-(SB-14)DL
 Acq: 25 Mar 2022 11:39

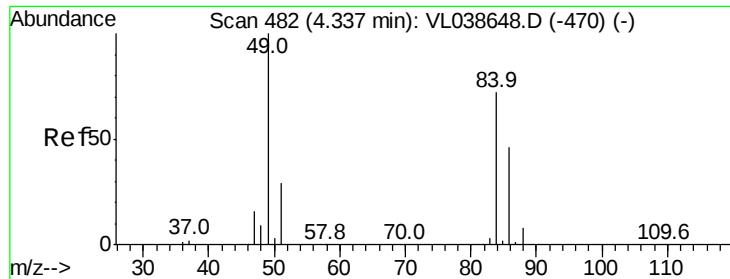
Tgt Ion: 39 Resp: 19914
 Ion Ratio Lower Upper
 39 100
 54 23.2 69.1 103.7#



#17
 tert-Butyl alcohol
 Concen: 0.08 ppbv
 RT: 4.34 min Scan# 483
 Delta R.T. 0.06 min
 Lab File: VL038761.D
 Acq: 25 Mar 2022 11:39

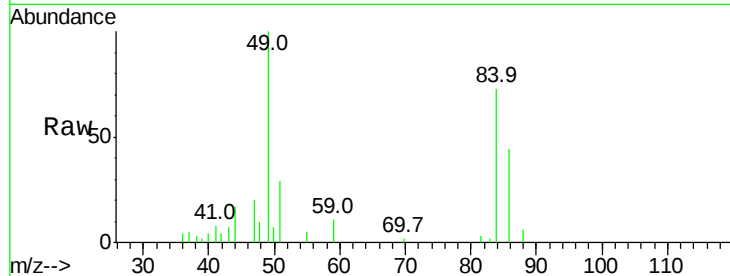
Tgt Ion: 59 Resp: 4753
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.2#





#20
Methylene Chloride
Concen: 0.54 ppbv
RT: 4.37
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-01-(SB-14)DL
Acq: 25 Mar 2022 11:39

Tgt Ion:	84	Resp:	14904
Ion	Ratio	Lower	Upper
84	100		
49	137.1	111.2	166.8
51	40.3	32.8	49.2
86	60.1	51.4	77.0

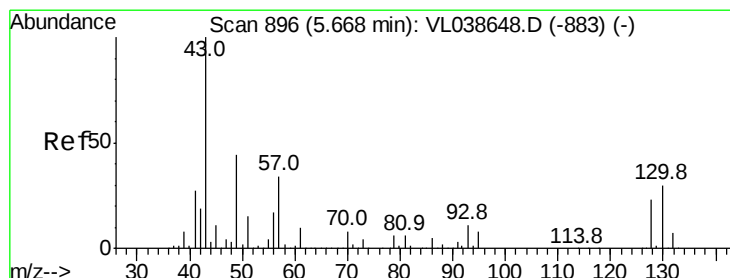
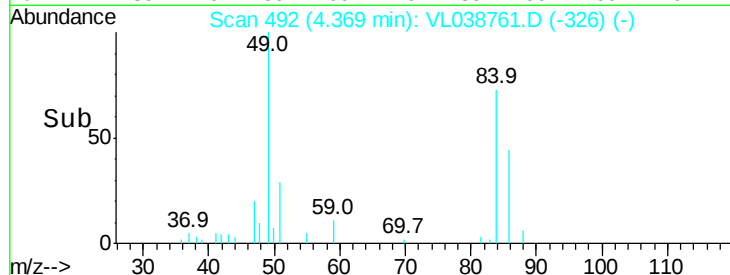
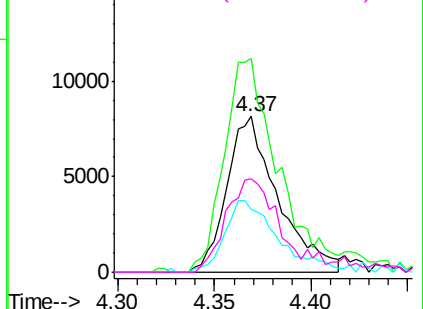


Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

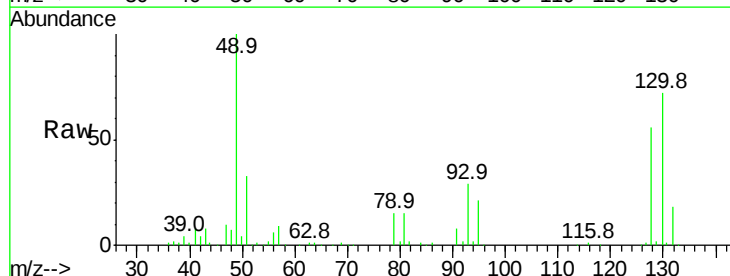
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#25
Ethyl Acetate
Concen: 0.14 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.04 min
Lab File: VL038761.D
Acq: 25 Mar 2022 11:39

Tgt Ion:	43	Resp:	23825
Ion	Ratio	Lower	Upper
43	100		
45	5.6	8.2	12.4#
61	2.2	8.3	12.5#
70	2.8	5.6	8.4#

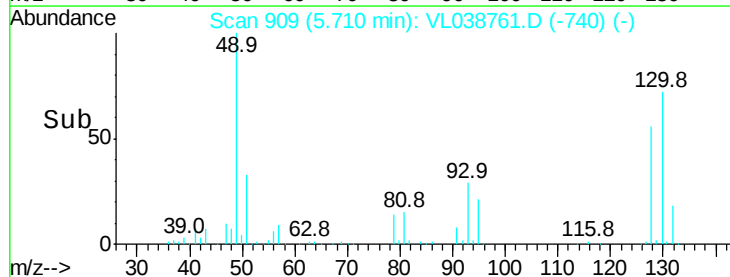
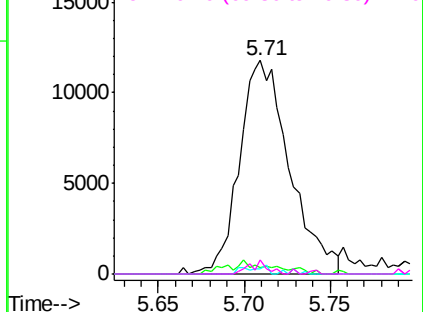


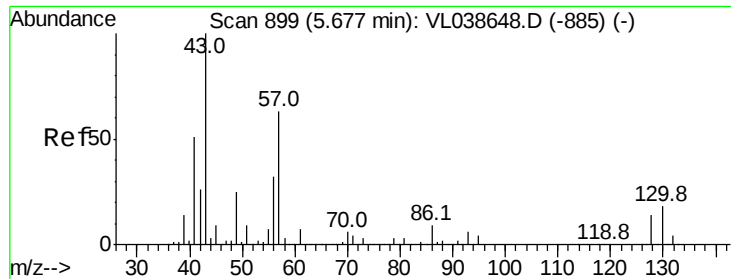
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.36 ppbv

RT: 5.72 Instrument: MSVOA_1

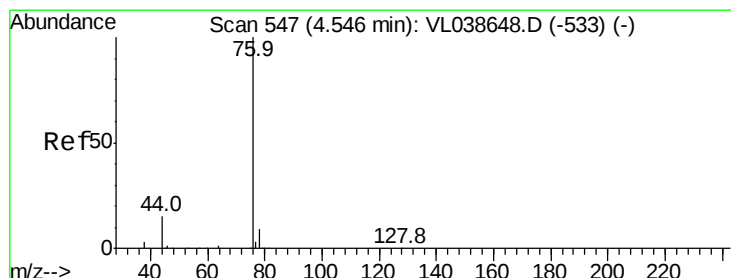
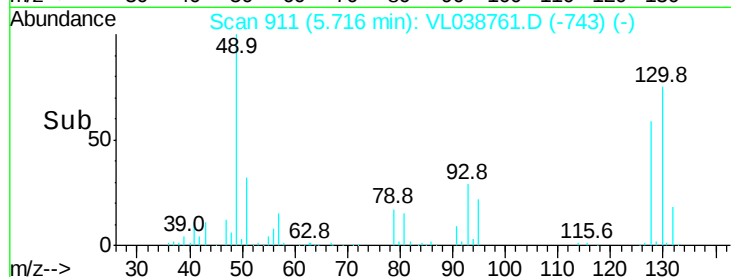
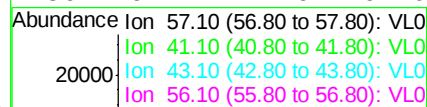
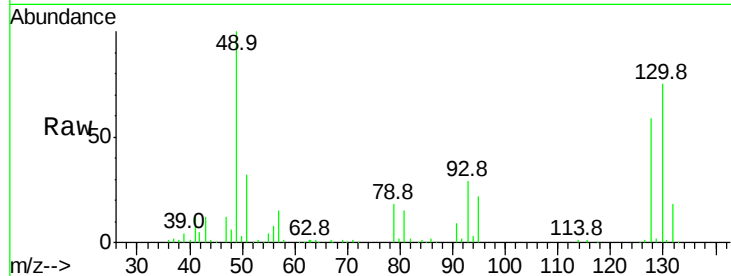
Delta R.T.

Lab File: ClientSampleId:

Acq: 25 Mar 2022 11:39

Tgt Ion: 57 Resp: 27060

Ion	Ratio	Lower	Upper
57	100		
41	95.7	67.0	100.4
43	93.0	184.2	276.2#
56	62.4	42.6	64.0



#27

Carbon Disulfide

Concen: 1.82 ppbv

RT: 4.57 min Scan# 556

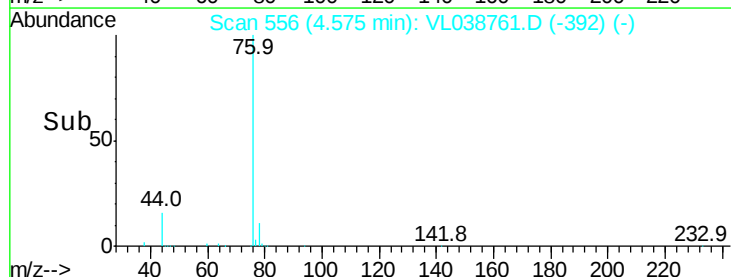
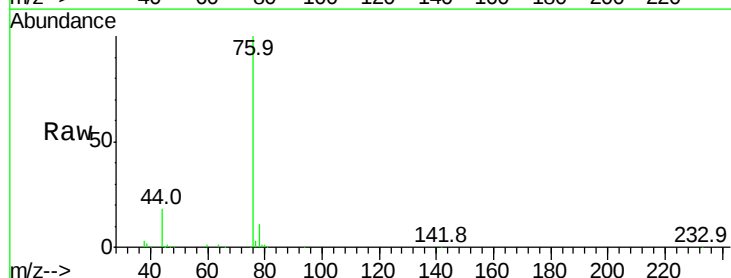
Delta R.T. 0.03 min

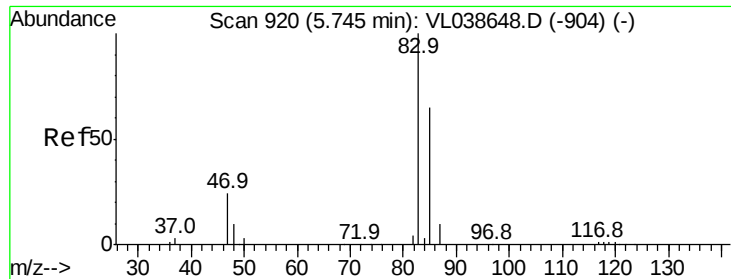
Lab File: VL038761.D

Acq: 25 Mar 2022 11:39

Tgt Ion: 76 Resp: 132484

Ion	Ratio	Lower	Upper
76	100		
44	17.5	12.4	18.6
78	10.4	7.8	11.8





#29

Chloroform

Concen: 0.14 ppbv

RT: 5.78 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV-01-(SB-14)DL

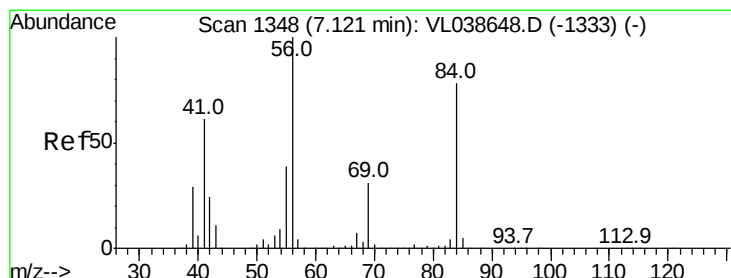
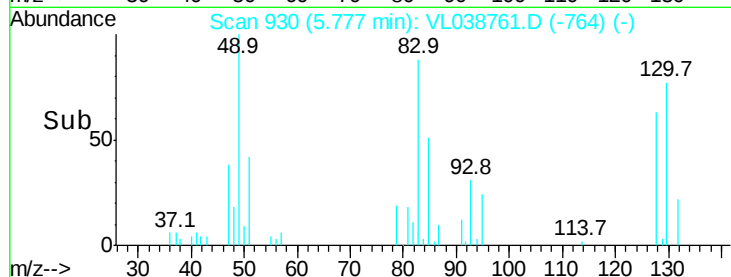
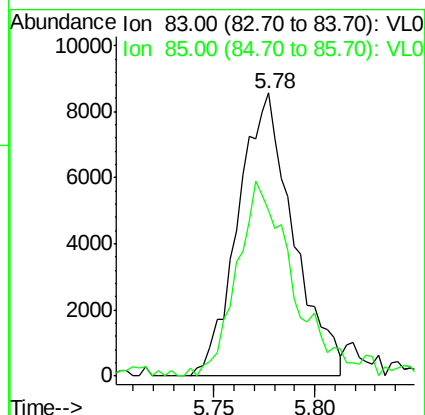
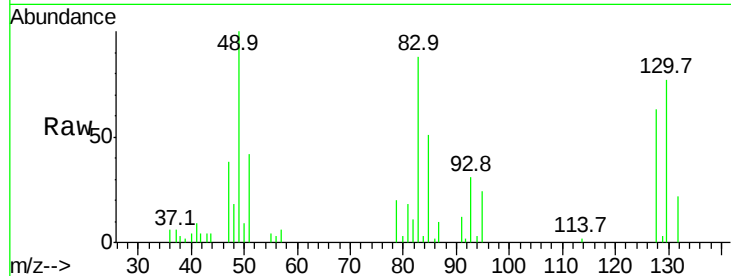
Acq: 25 Mar 2022 11:39

Tgt Ion: 83 Resp: 16406

Ion Ratio Lower Upper

83 100

85 55.4 51.7 77.5



#30

Cyclohexane

Concen: 0.04 ppbv

RT: 7.16 min Scan# 1360

Delta R.T. 0.04 min

Lab File: VL038761.D

Acq: 25 Mar 2022 11:39

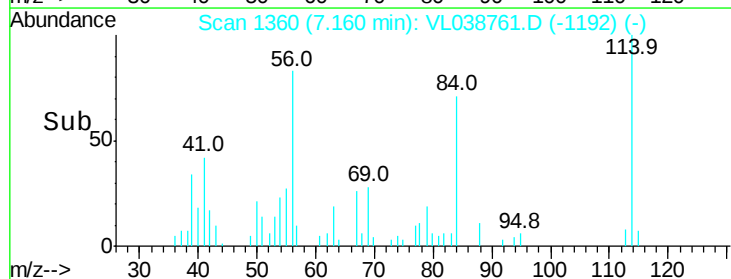
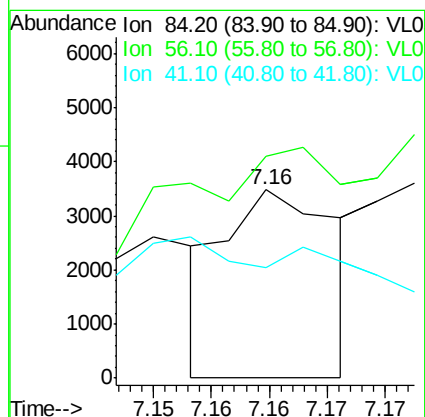
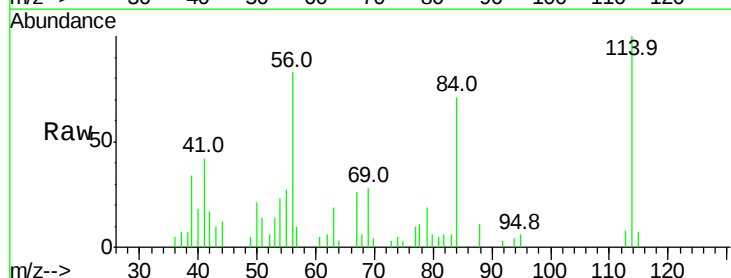
Tgt Ion: 84 Resp: 2320

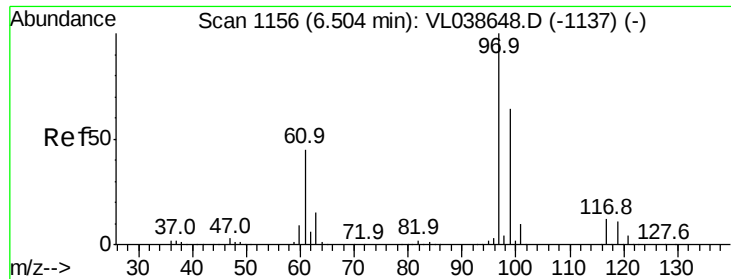
Ion Ratio Lower Upper

84 100

56 0.0 108.2 162.4#

41 0.0 61.8 92.6#





#32

1,1,1-Trichloroethane

Concen: 0.40 ppbv

RT: 6.54 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2022 11:39 SV-01-(SB-14)DL

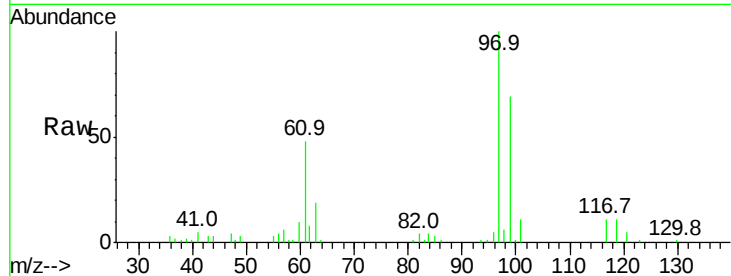
Tgt Ion: 97 Resp: 45707

Ion Ratio Lower Upper

97 100

99 66.2 51.8 77.8

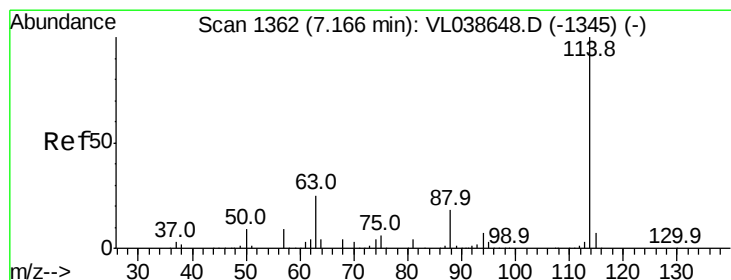
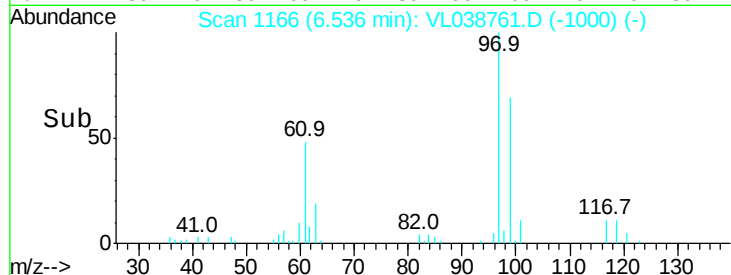
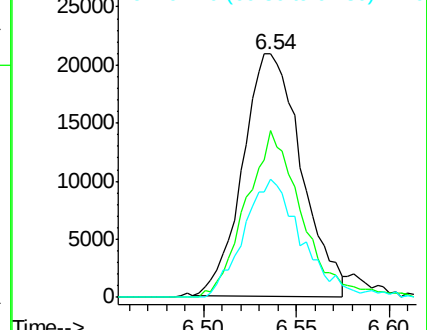
61 48.9 36.7 55.1



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: 10.00 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. 0.03 min

Lab File: VL038761.D

Acq: 25 Mar 2022 11:39

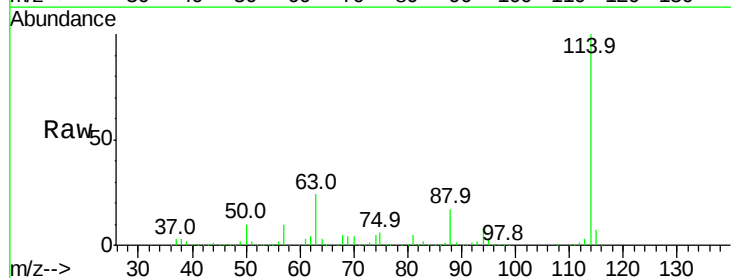
Tgt Ion: 114 Resp: 2115528

Ion Ratio Lower Upper

114 100

63 23.8 19.4 29.0

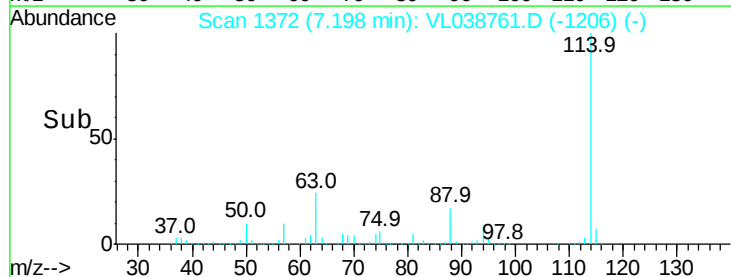
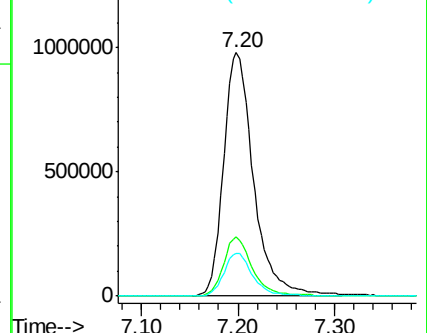
88 17.3 13.9 20.9

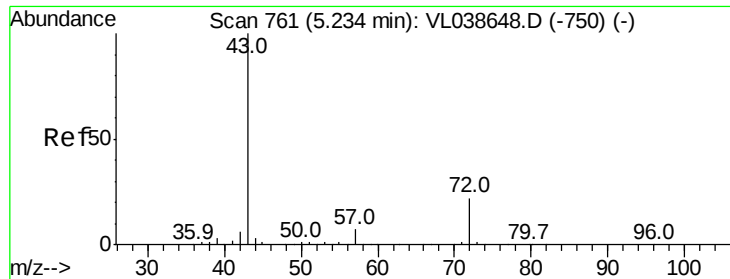


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

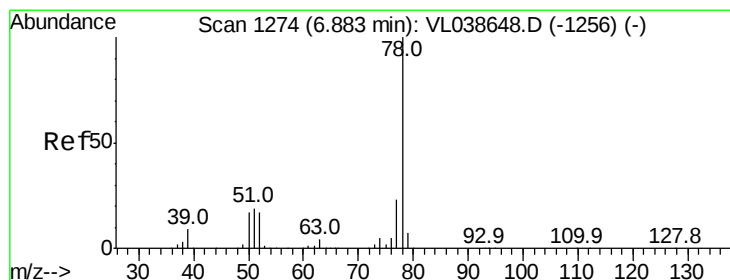
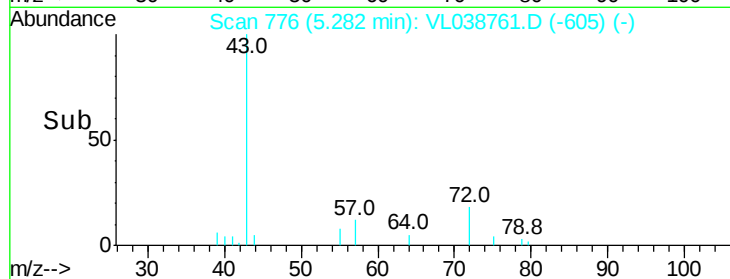
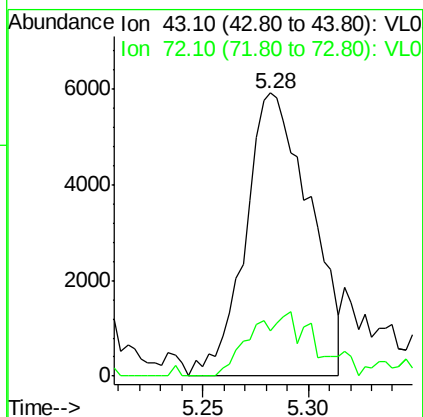
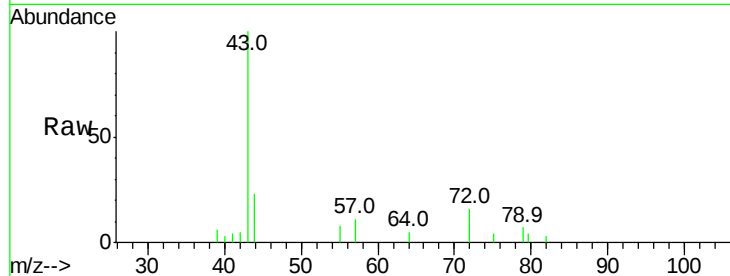
Ion 88.10 (87.80 to 88.80): VL0





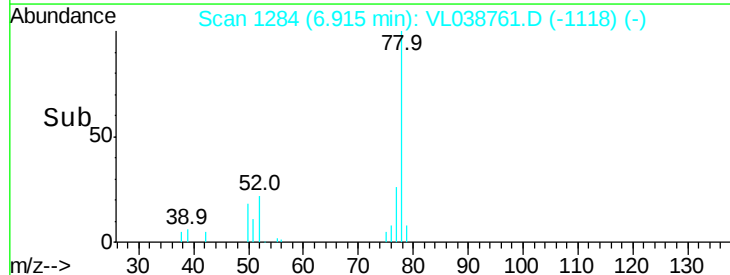
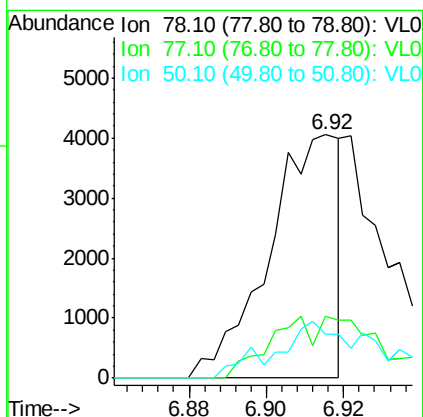
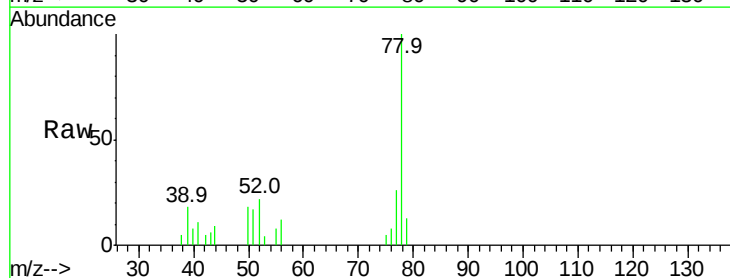
#34
2-Butanone
Concen: 0.15 ppbv
RT: 5.28
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-01-(SB-14)DL
Acq: 25 Mar 2022 11:39

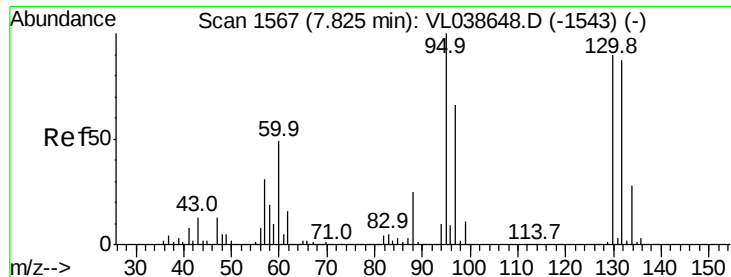
Tgt Ion: 43 Resp: 12561
Ion Ratio Lower Upper
43 100
72 22.9 17.8 26.8



#36
Benzene
Concen: 0.03 ppbv
RT: 6.92 min Scan# 1284
Delta R.T. 0.03 min
Lab File: VL038761.D
Acq: 25 Mar 2022 11:39

Tgt Ion: 78 Resp: 5182
Ion Ratio Lower Upper
78 100
77 25.6 18.1 27.1
50 17.9 13.6 20.4





#38

Trichloroethene

Concen: 1.09 ppbv

RT: 7.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2022 11:39 SV-01-(SB-14)DL

Tgt Ion:130 Resp: 74521

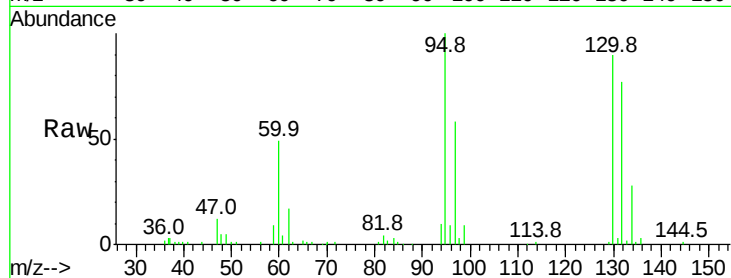
Ion Ratio Lower Upper

130 100

95 109.3 88.9 133.3

132 84.7 77.4 116.0

97 62.8 58.2 87.4

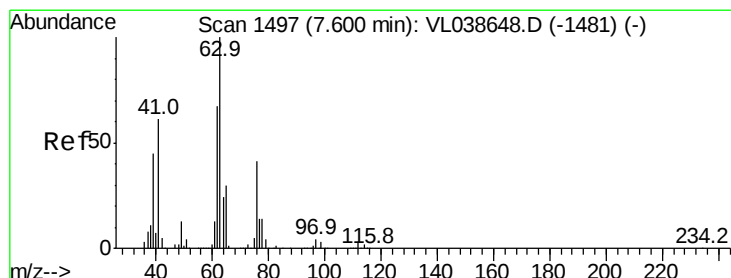
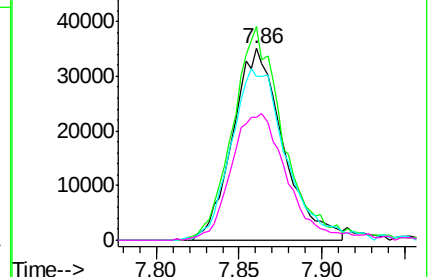
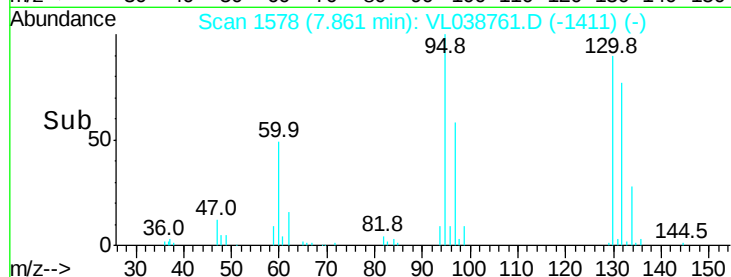


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 7.64 ppbv

RT: 7.20 min Scan# 1372

Delta R.T. -0.40 min

Lab File: VL038761.D

Acq: 25 Mar 2022 11:39

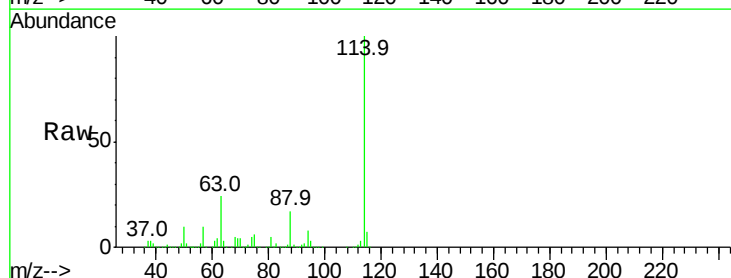
Tgt Ion: 63 Resp: 487794

Ion Ratio Lower Upper

63 100

41 0.0 49.0 73.6#

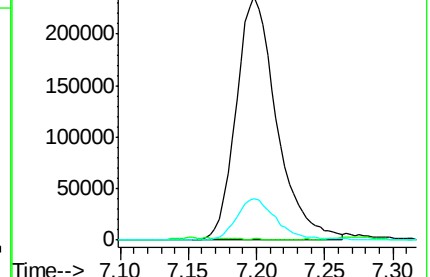
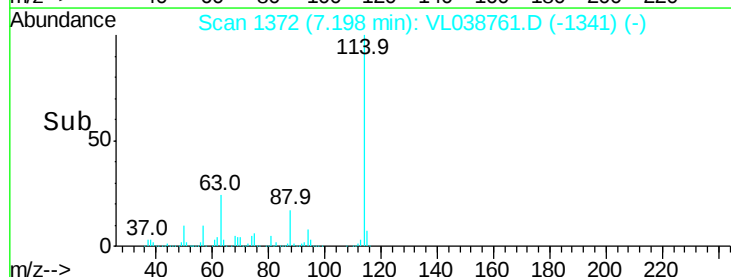
62 16.6 53.9 80.9#

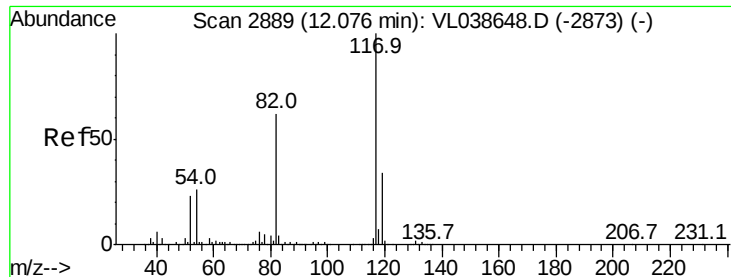


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

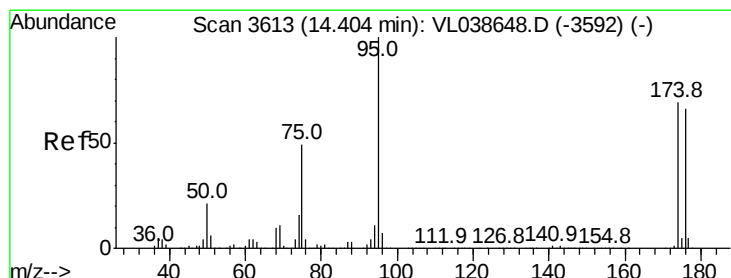
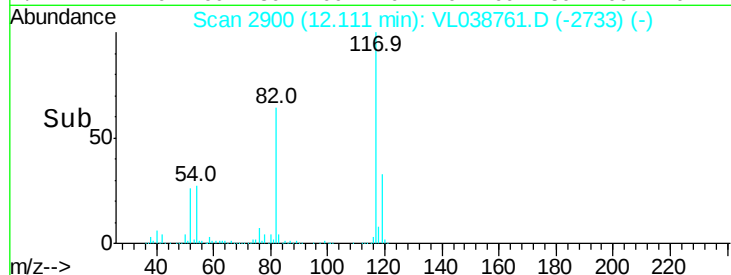
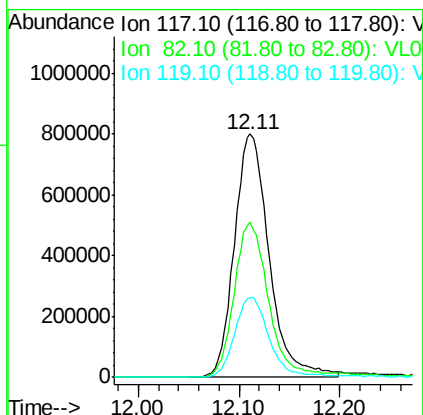
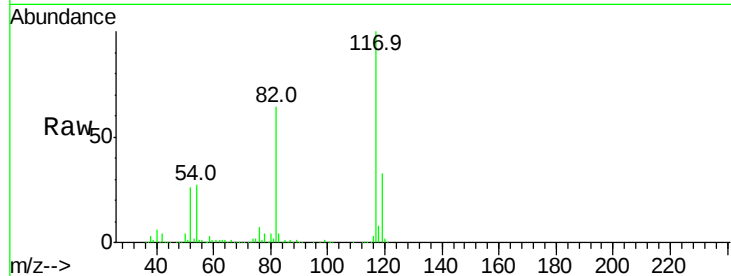
Ion 62.10 (61.80 to 62.80): VL0





#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.11 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV-01-(SB-14)DL
Acq: 25 Mar 2022 11:39

Tgt Ion: 117 Resp: 1916649
Ion Ratio Lower Upper
117 100
82 65.2 51.6 77.4
119 33.1 26.9 40.3



#68
1-Bromo-4-Fluorobenzene
Concen: 9.89 ppbv
RT: 14.44 min Scan# 3624
Delta R.T.: 0.04 min
Lab File: VL038761.D
Acq: 25 Mar 2022 11:39

Tgt Ion: 95 Resp: 1453033
Ion Ratio Lower Upper
95 100
174 70.6 56.1 84.1
175 5.1 4.2 6.2

