

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032322\
 Data File : VL038744.D
 Acq On : 24 Mar 2022 10:08
 Operator : SY/AP
 Sample : N2047-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P99DL

Quant Time: Mar 25 01:09:04 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	5.67	49	784637	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2024472	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1690830	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1191963	9.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.90%

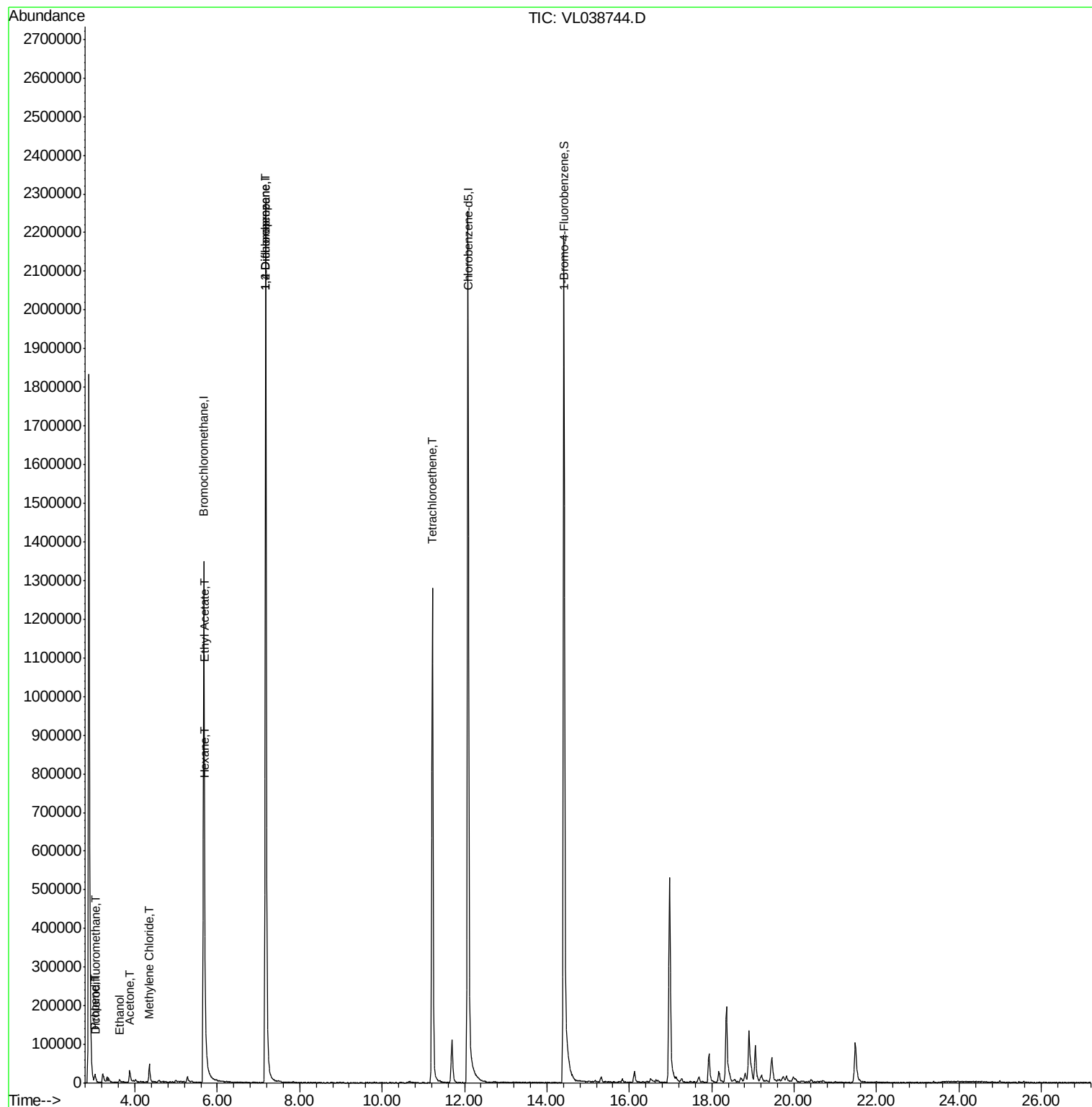
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	3581	0.03	ppbv #	79
9) Propene	3.02	41	6607	0.17	ppbv #	80
13) Ethanol	3.63	45	2997	0.68	ppbv #	37
15) Acetone	3.87	43	30670	0.45	ppbv #	72
20) Methylene Chloride	4.35	84	8852	0.31	ppbv	89
25) Ethyl Acetate	5.69	43	10198	0.06	ppbv #	78
26) Hexane	5.70	57	6617	0.09	ppbv #	37
39) 1,2-Dichloropropane	7.17	63	471385	7.72	ppbv #	28
52) Tetrachloroethene	11.22	164	350601	6.13	ppbv	97

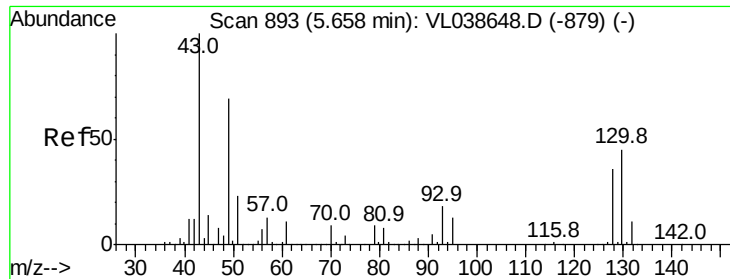
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 10:08

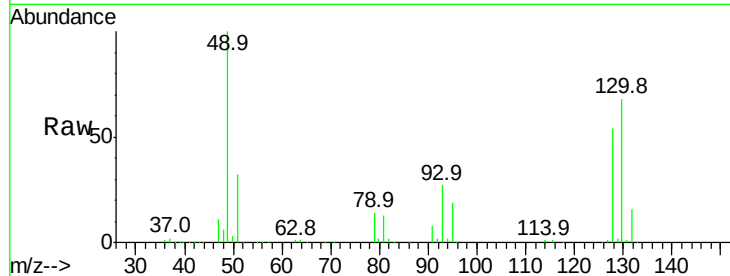
Tgt Ion: 49 Resp: 784637

Ion Ratio Lower Upper

49 100

128 54.9 26.2 78.6

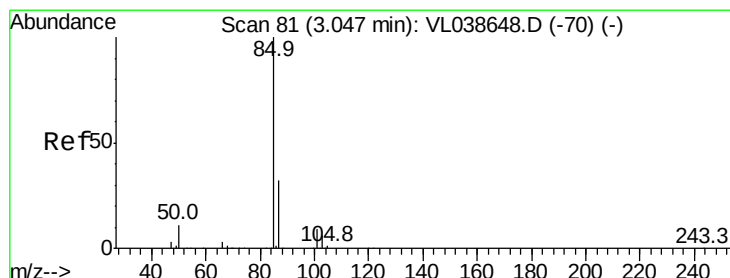
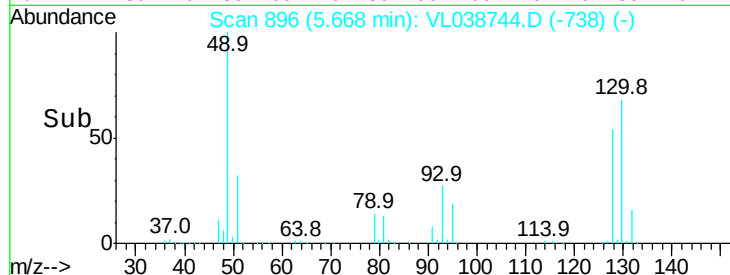
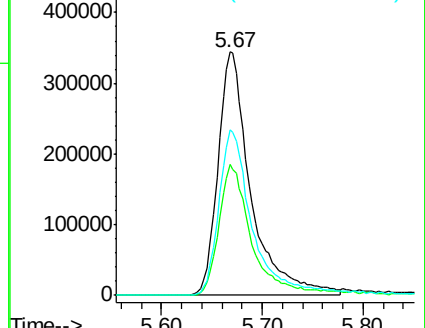
130 72.0 33.7 101.1



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: 0.03 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.01 min

Lab File: VL038744.D

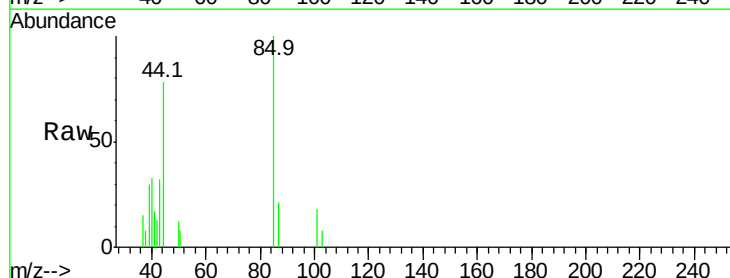
Acq: 24 Mar 2022 10:08

Tgt Ion: 85 Resp: 3581

Ion Ratio Lower Upper

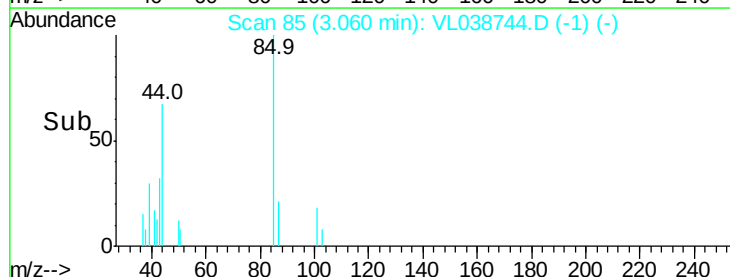
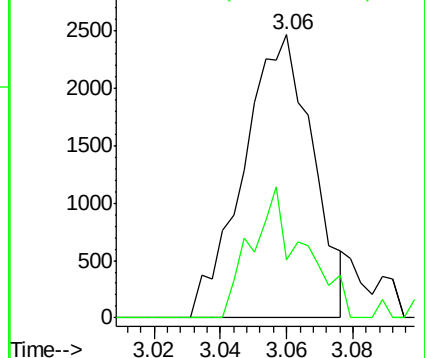
85 100

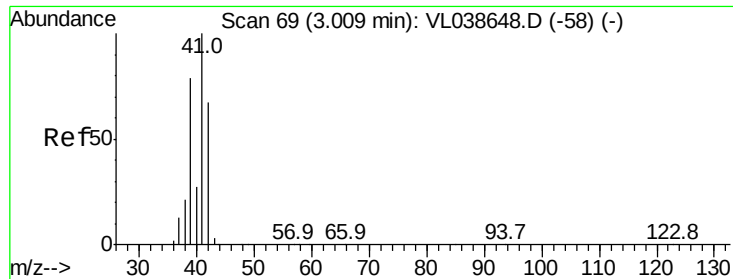
87 20.6 26.0 39.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 0.17 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

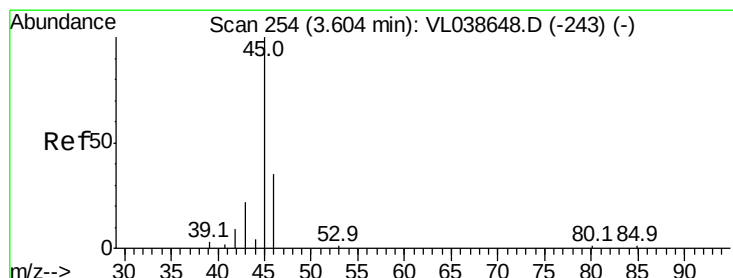
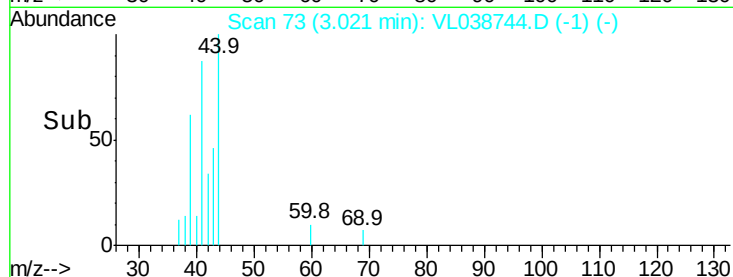
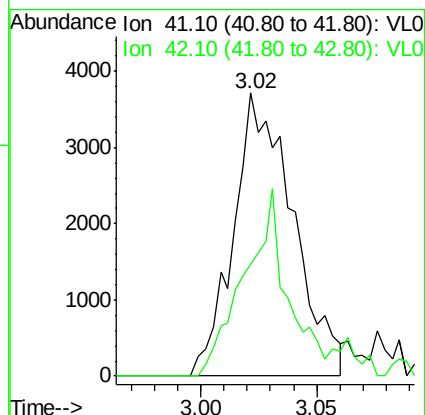
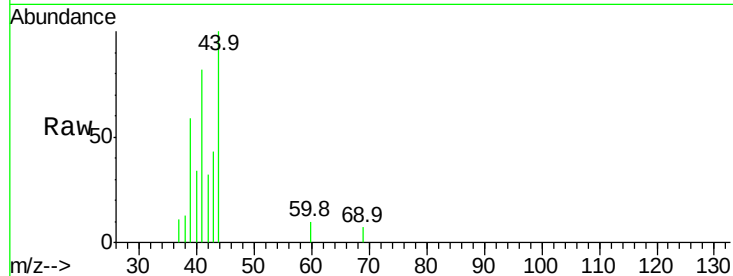
Acq: 24 Mar 2022 10:08

Tgt Ion: 41 Resp: 6607

Ion Ratio Lower Upper

41 100

42 53.7 56.2 84.4#



#13

Ethanol

Concen: 0.68 ppbv

RT: 3.63 min Scan# 261

Delta R.T. 0.02 min

Lab File: VL038744.D

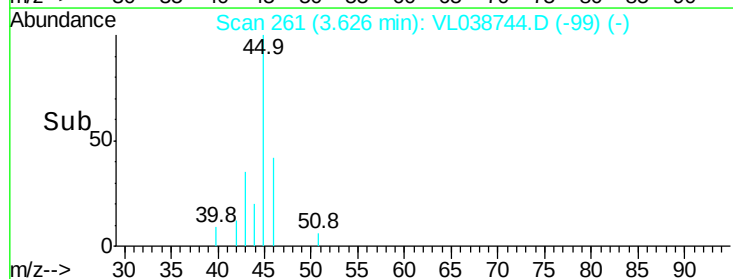
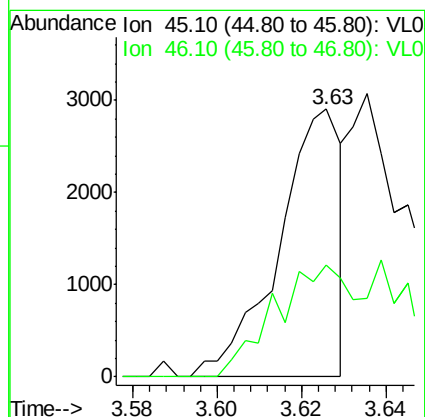
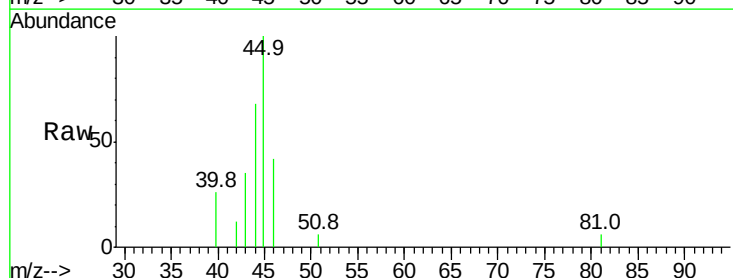
Acq: 24 Mar 2022 10:08

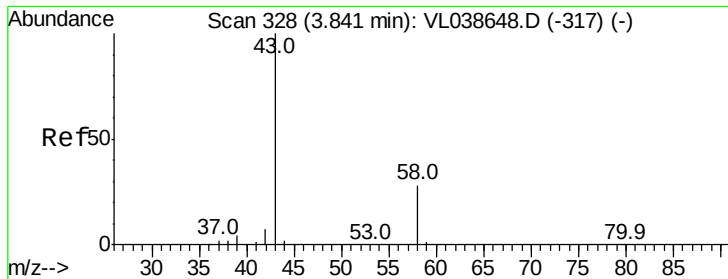
Tgt Ion: 45 Resp: 2997

Ion Ratio Lower Upper

45 100

46 0.0 15.1 60.5#





#15

Acetone

Concen: 0.45 ppbv

RT: 3.87 Instrument: MSVOA_1

Delta R.T. 0.01

Lab File: ClientSampleId: C0P99DL

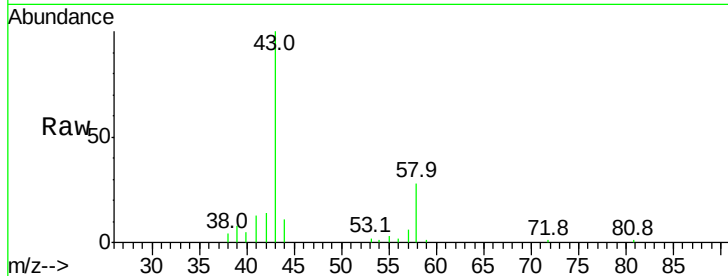
Acq: 24 Mar 2022 10:08

Tgt Ion: 43 Resp: 30670

Ion Ratio Lower Upper

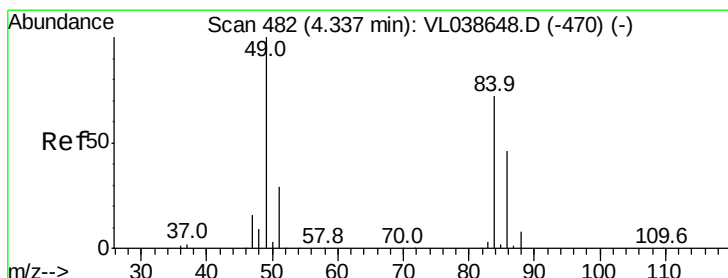
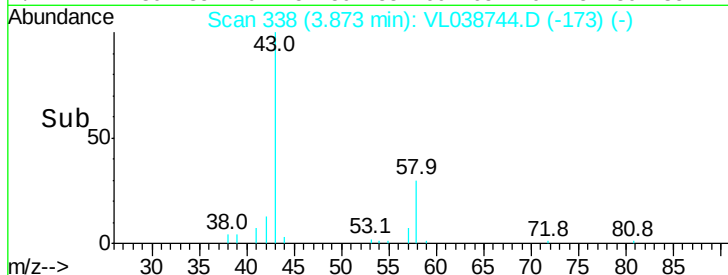
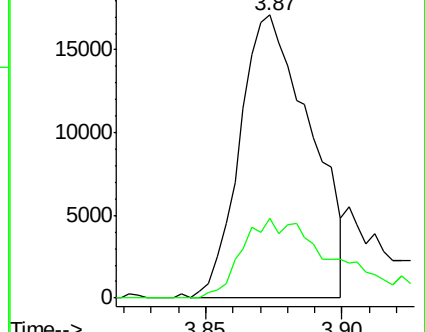
43 100

58 44.0 23.3 34.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.31 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.01 min

Lab File: VL038744.D

Acq: 24 Mar 2022 10:08

Tgt Ion: 84 Resp: 8852

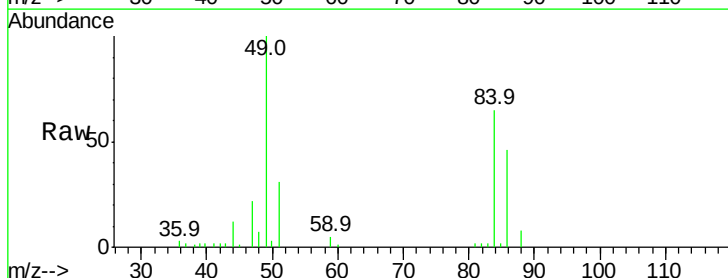
Ion Ratio Lower Upper

84 100

49 153.7 111.2 166.8

51 47.3 32.8 49.2

86 70.2 51.4 77.0

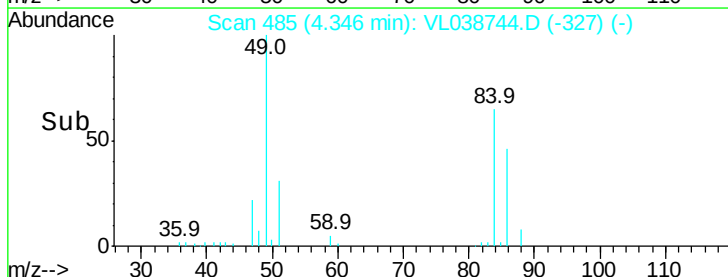
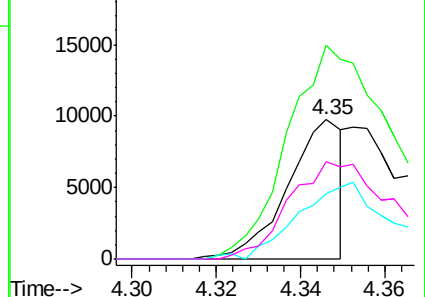


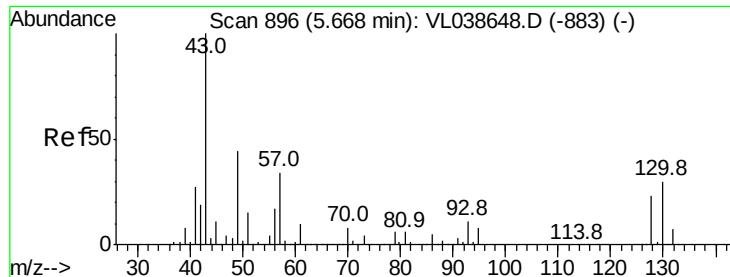
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

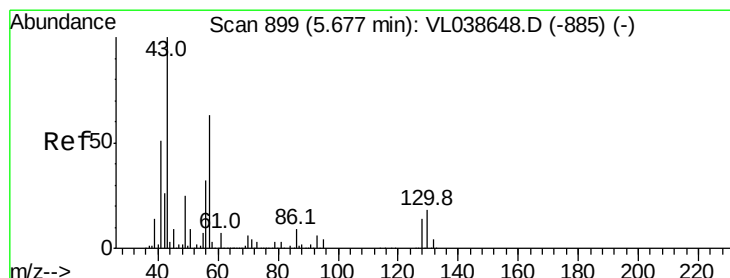
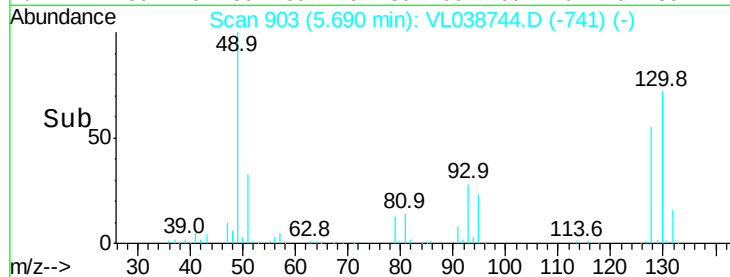
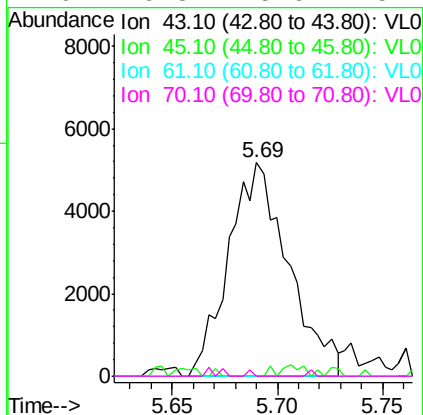
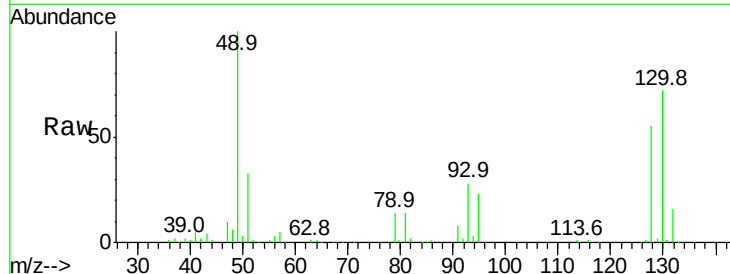
Ion 86.00 (85.70 to 86.70): VL0





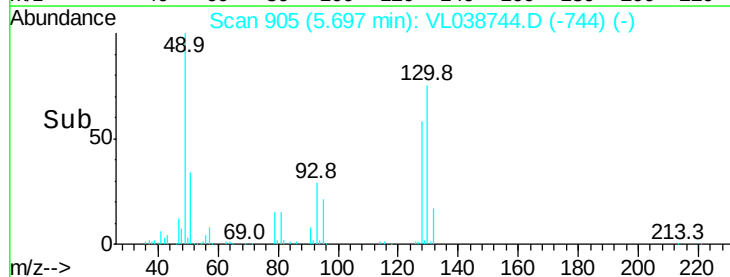
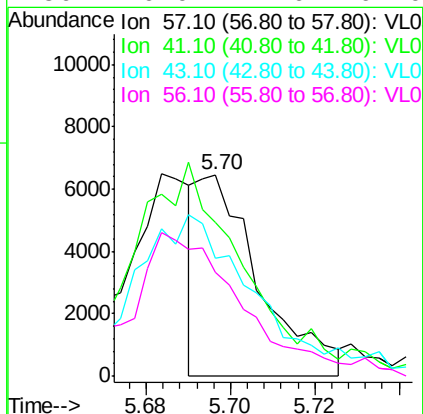
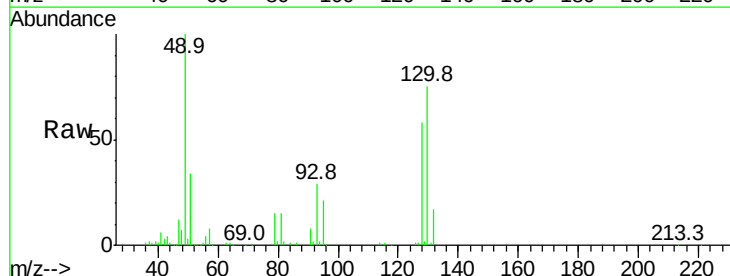
#25
Ethyl Acetate
Concen: 0.06 ppbv
RT: 5.69 min
Instrument: MSVOA_1
Delta R.T.: 0.02 min
Lab File: ClientSampleId : COP99DL
Acq: 24 Mar 2022 10:08

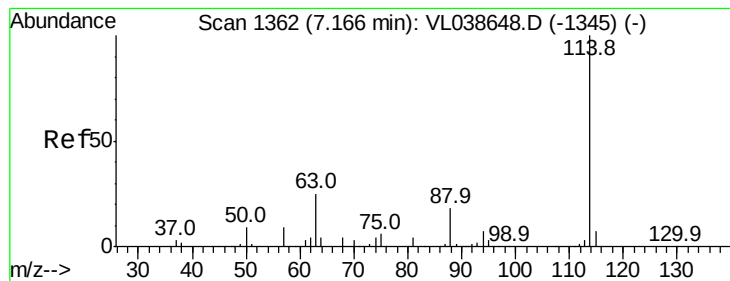
Tgt Ion:	43	Resp:	10198
Ion	Ratio	Lower	Upper
43	100		
45	3.5	8.2	12.4#
61	0.0	8.3	12.5#
70	0.3	5.6	8.4#



#26
Hexane
Concen: 0.09 ppbv
RT: 5.70 min Scan# 905
Delta R.T.: 0.02 min
Lab File: VL038744.D
Acq: 24 Mar 2022 10:08

Tgt Ion:	57	Resp:	6617
Ion	Ratio	Lower	Upper
57	100		
41	199.5	67.0	100.4#
43	170.7	184.2	276.2#
56	0.0	42.6	64.0#





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Mar 2022 10:08

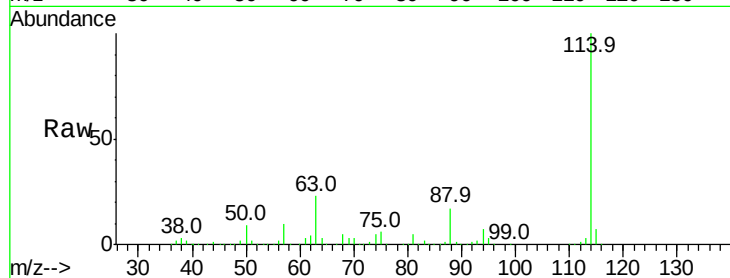
Tgt Ion: 114 Resp: 2024472

Ion Ratio Lower Upper

114 100

63 23.9 19.4 29.0

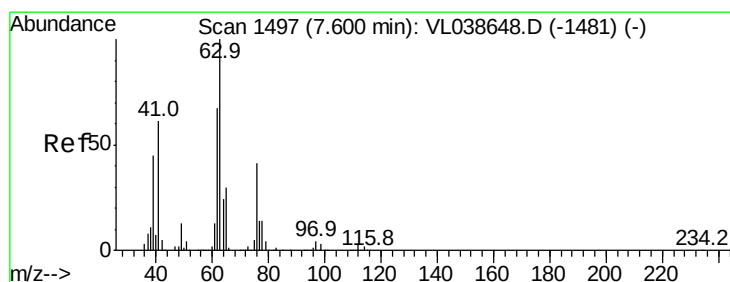
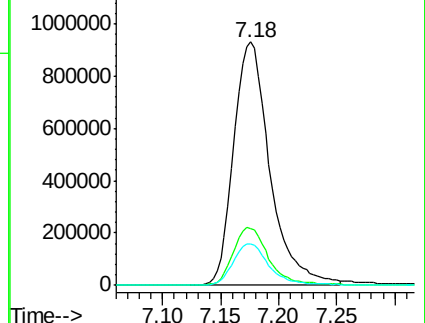
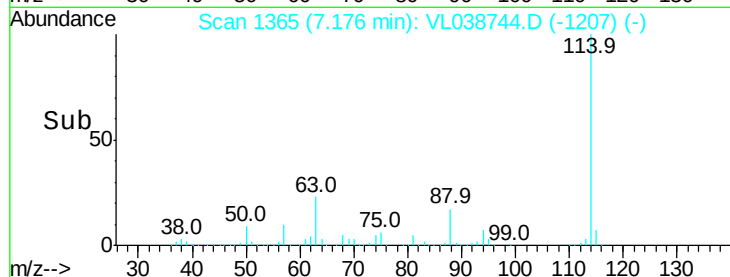
88 17.4 13.9 20.9



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



#39

1,2-Dichloropropane

Concen: 7.72 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.43 min

Lab File: VL038744.D

Acq: 24 Mar 2022 10:08

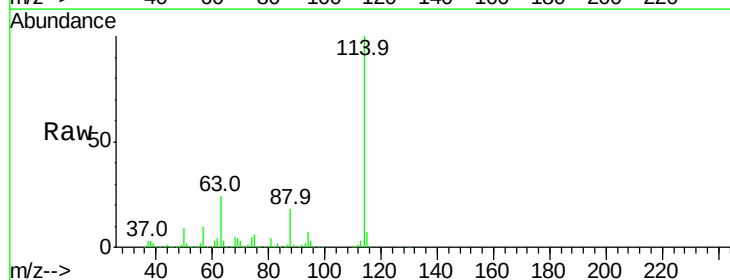
Tgt Ion: 63 Resp: 471385

Ion Ratio Lower Upper

63 100

41 0.1 49.0 73.6#

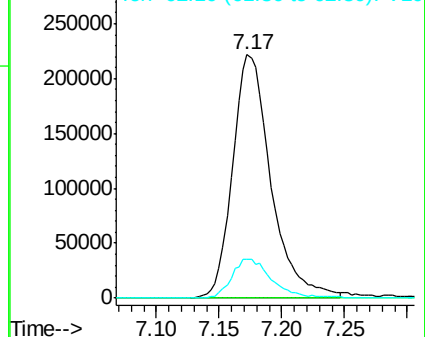
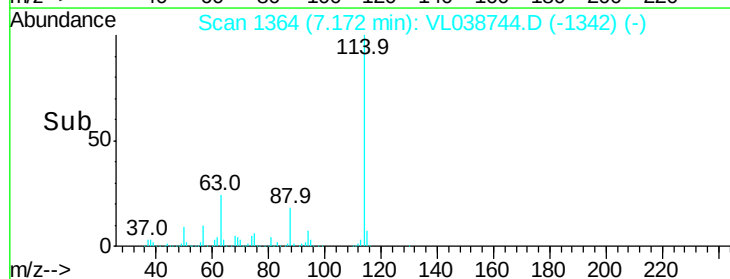
62 16.1 53.9 80.9#

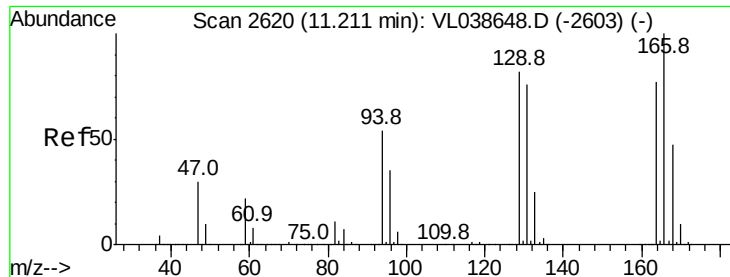


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#52

Tetrachloroethene

Concen: 6.13 ppbv

RT: 11.22

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Mar 2022 10:08

Tgt Ion:164 Resp: 350601

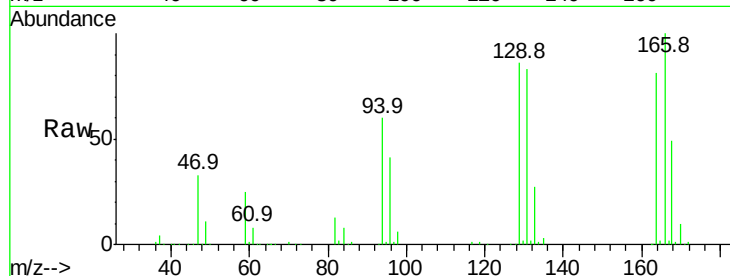
Ion Ratio Lower Upper

164 100

166 123.5 103.3 154.9

129 105.8 85.2 127.8

131 102.0 78.3 117.5

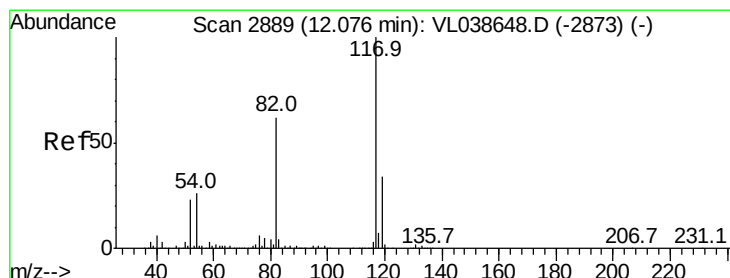
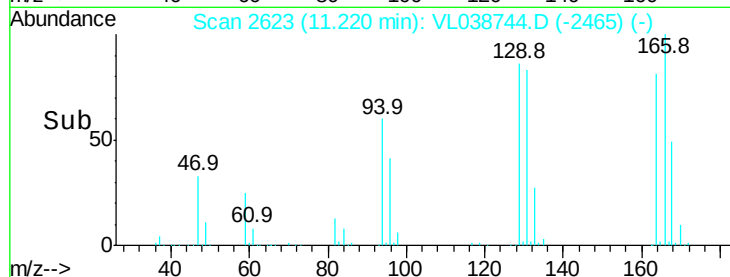
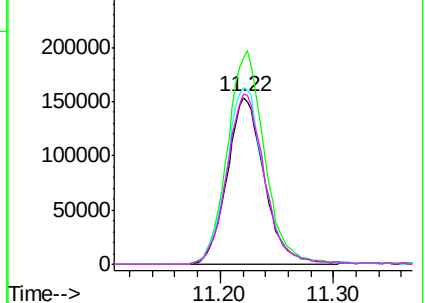


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. 0.01 min

Lab File: VL038744.D

Acq: 24 Mar 2022 10:08

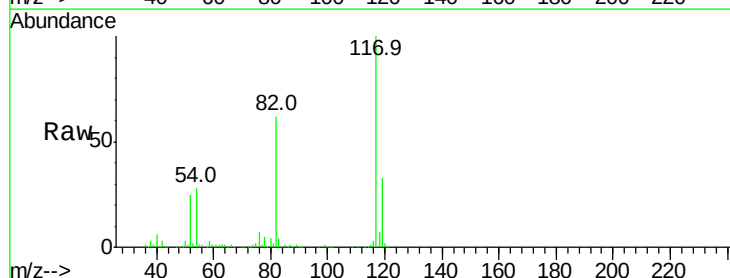
Tgt Ion:117 Resp: 1690830

Ion Ratio Lower Upper

117 100

82 63.8 51.6 77.4

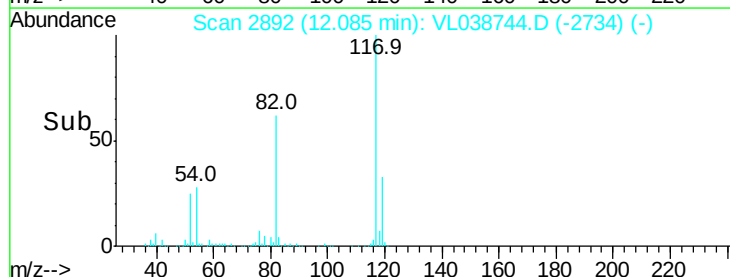
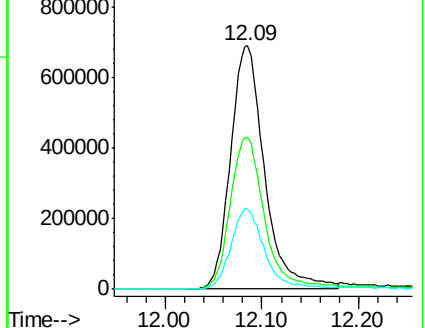
119 34.0 26.9 40.3

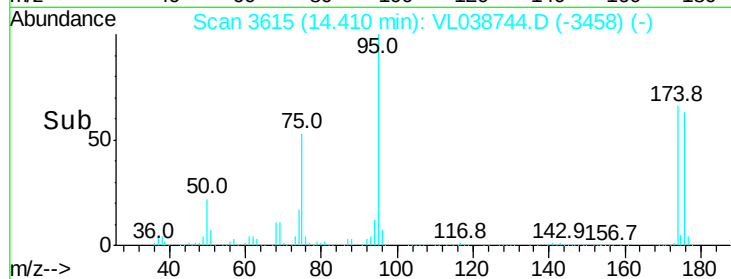
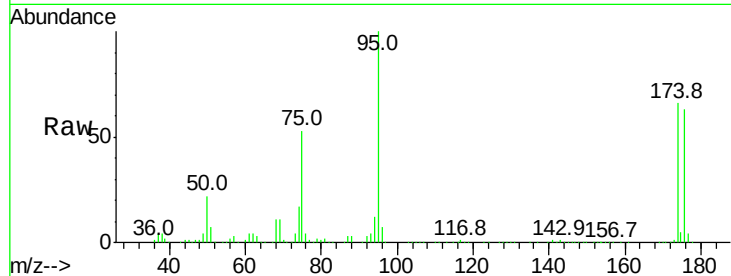
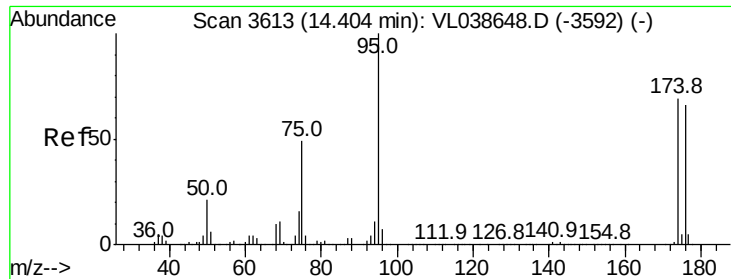


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.19 ppbv

RT: 14.41

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Mar 2022 10:08

Tgt Ion: 95 Resp: 1191963

Ion Ratio Lower Upper

95 100

174 71.7 56.1 84.1

175 4.8 4.2 6.2

