

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032122\
 Data File : VL038672.D
 Acq On : 22 Mar 2022 5:15
 Operator : SY/AP
 Sample : N1964-14DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P84DL

Quant Time: Mar 22 06:45:56 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	5.65	49	932443	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2351046	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2039468	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1476216	9.44	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.40%

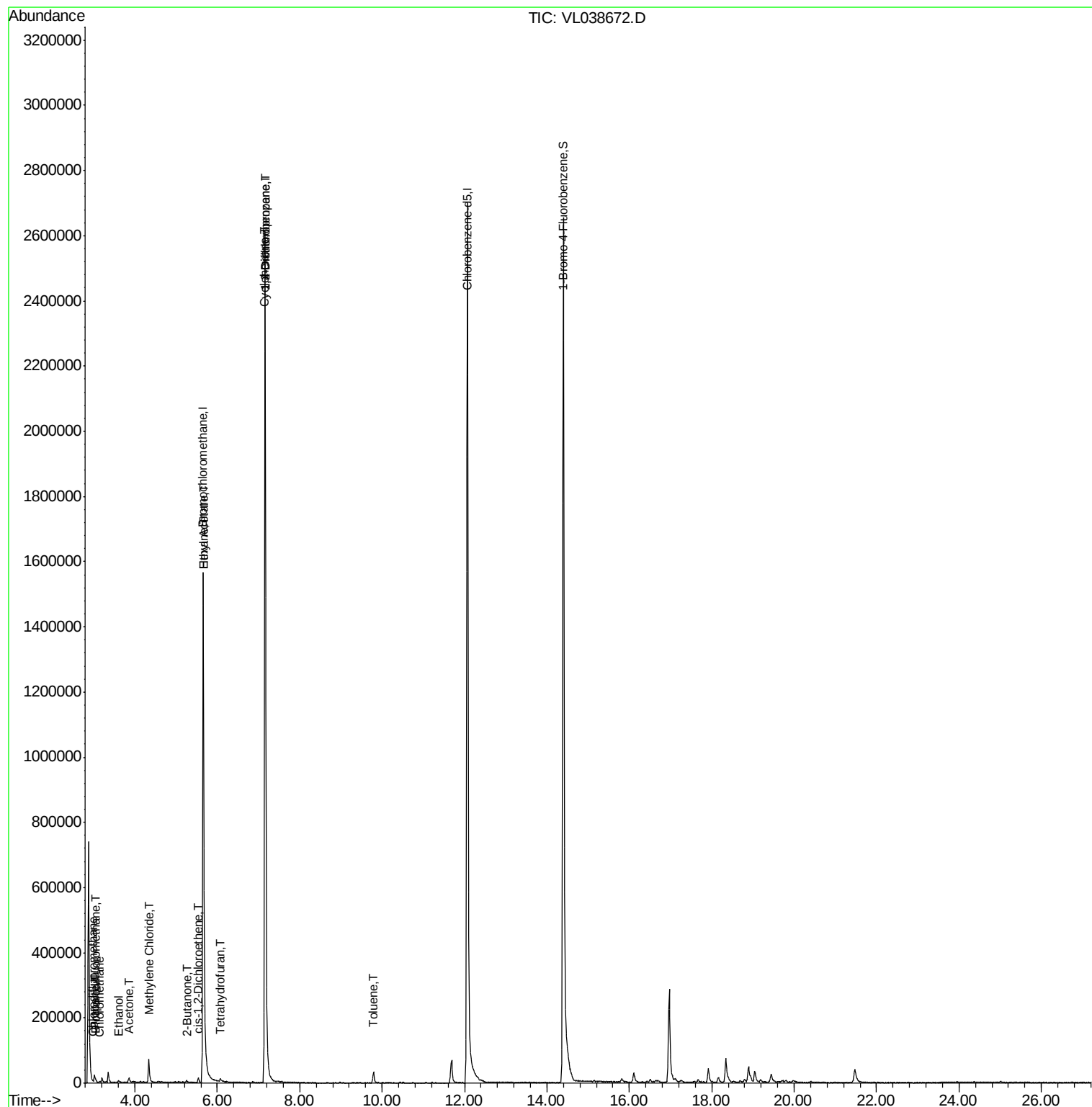
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	4740	0.04	ppbv	96
3) Chlorodifluoromethane	2.98	51	5767	0.06	ppbv #	79
4) Chloromethane	3.13	50	1290	0.02	ppbv	93
9) Propene	3.02	41	7626	0.16	ppbv	91
13) Ethanol	3.60	45	2323	0.44	ppbv #	1
15) Acetone	3.84	43	6882	0.09	ppbv #	1
20) Methylene Chloride	4.34	84	31635	0.93	ppbv	96
25) Ethyl Acetate	5.67	43	6221	0.03	ppbv #	74
26) Hexane	5.67	57	5908	0.07	ppbv #	54
30) Cyclohexane	7.14	84	2597	0.03	ppbv #	1
31) cis-1,2-Dichloroethene	5.54	61	6015	0.07	ppbv #	66
34) 2-Butanone	5.25	43	5699	0.06	ppbv #	86
39) 1,2-Dichloropropane	7.16	63	551667	7.78	ppbv #	28
41) Tetrahydrofuran	6.08	42	3161	0.05	ppbv #	70
53) Toluene	9.79	91	30528	0.16	ppbv	99

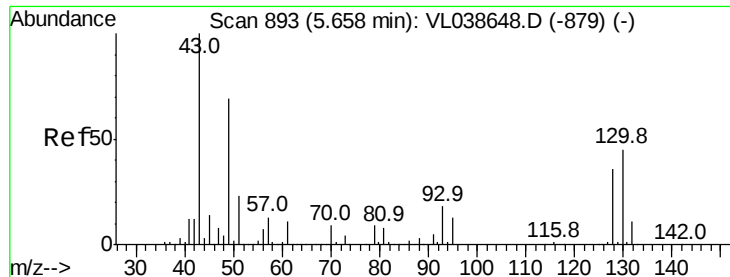
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 22 06:45:56 2022
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Mar 2022 5:15

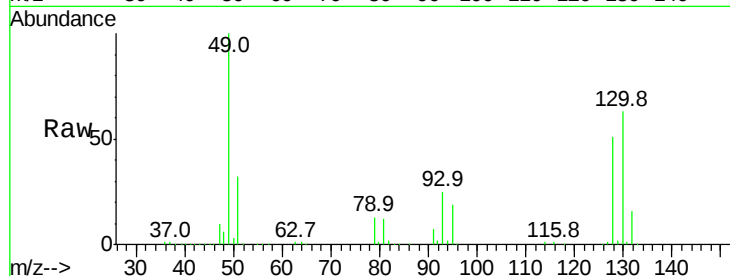
Tgt Ion: 49 Resp: 932443

Ion Ratio Lower Upper

49 100

128 53.2 26.2 78.6

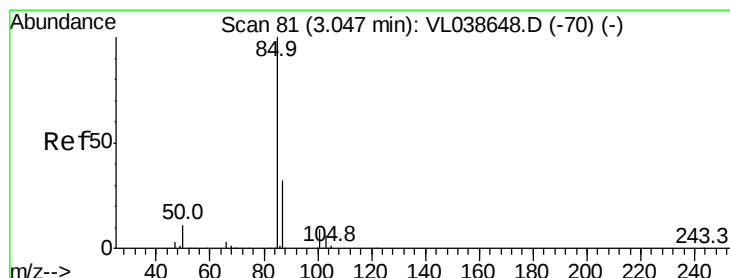
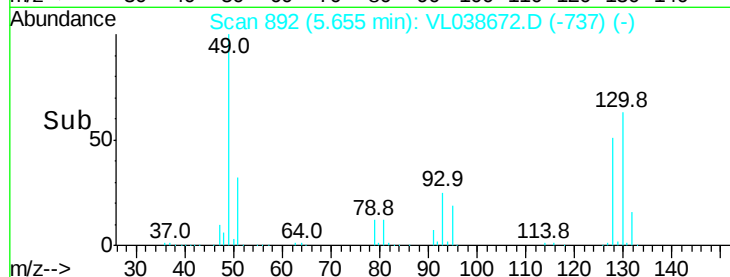
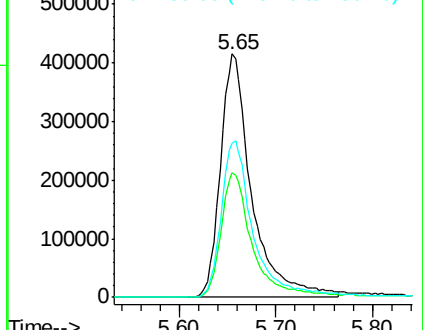
130 68.0 33.7 101.1



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: 0.04 ppbv

RT: 3.05 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL038672.D

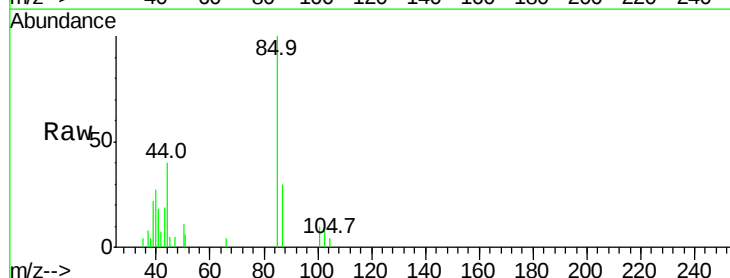
Acq: 22 Mar 2022 5:15

Tgt Ion: 85 Resp: 4740

Ion Ratio Lower Upper

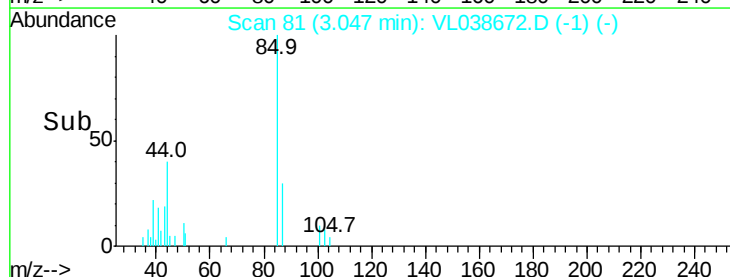
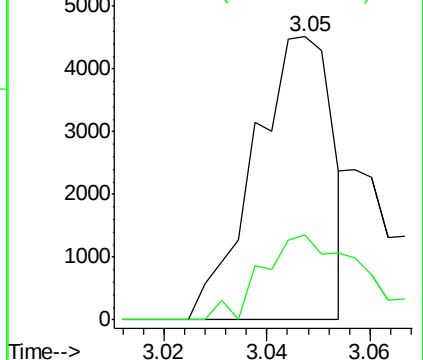
85 100

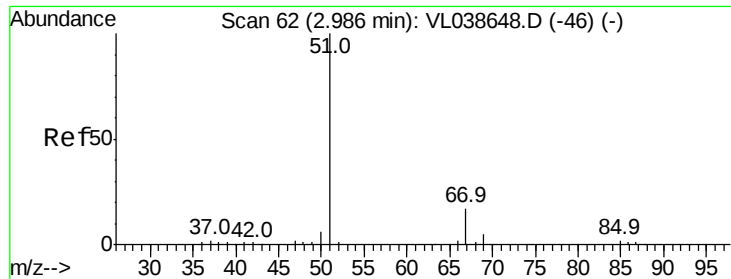
87 30.0 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.06 ppbv

RT: 2.98 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: C0P84DL

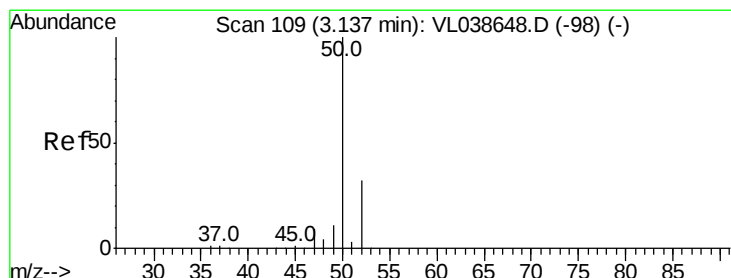
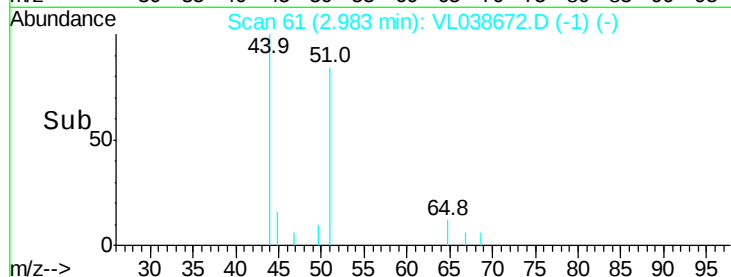
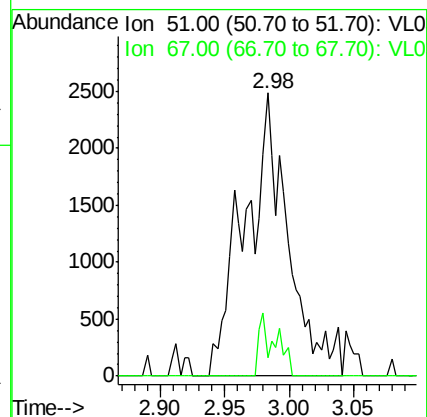
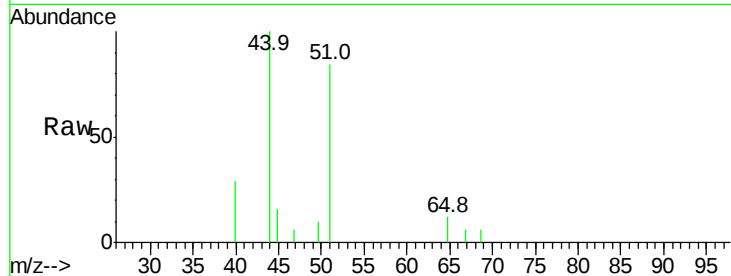
Acq: 22 Mar 2022 5:15

Tgt Ion: 51 Resp: 5767

Ion Ratio Lower Upper

51 100

67 8.5 14.1 21.1#



#4

Chloromethane

Concen: 0.02 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL038672.D

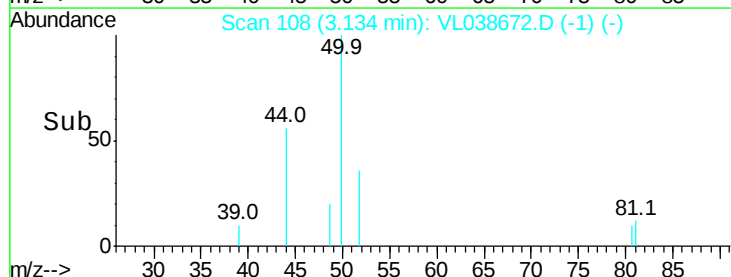
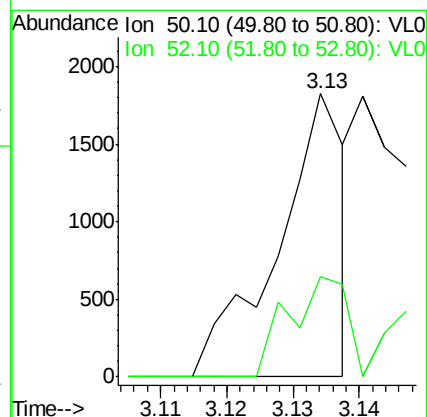
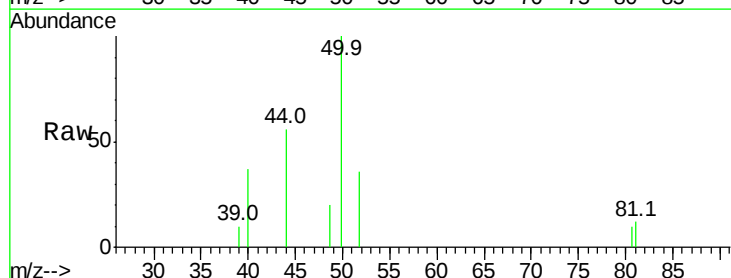
Acq: 22 Mar 2022 5:15

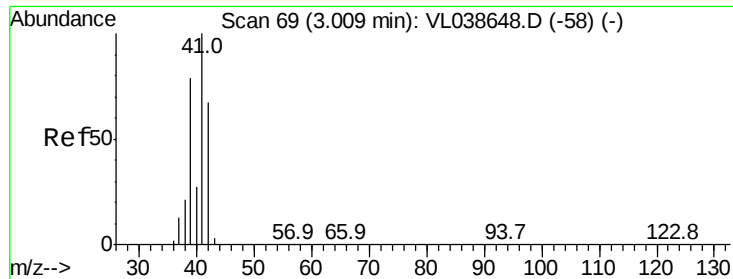
Tgt Ion: 50 Resp: 1290

Ion Ratio Lower Upper

50 100

52 35.5 25.5 38.3





#9

Propene

Concen: 0.16 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

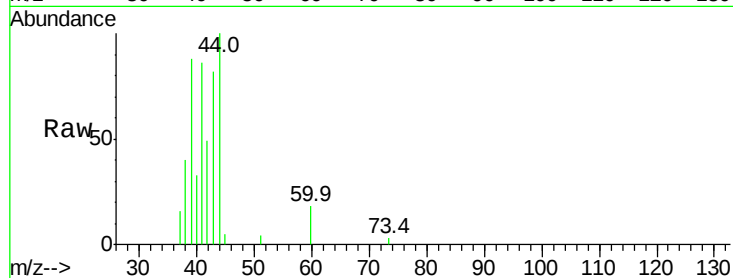
Acq: 22 Mar 2022 5:15

Tgt Ion: 41 Resp: 7626

Ion Ratio Lower Upper

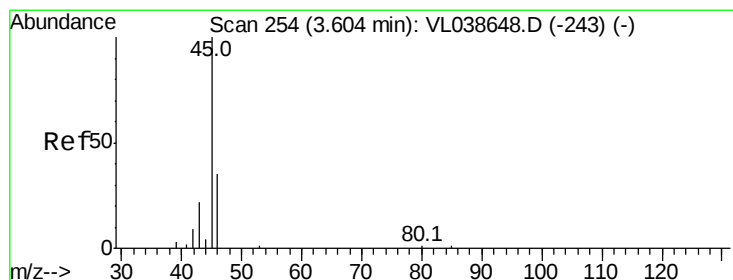
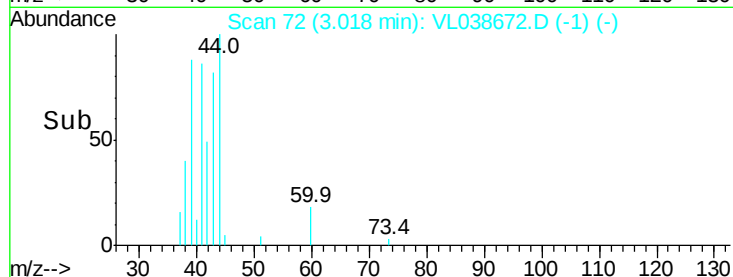
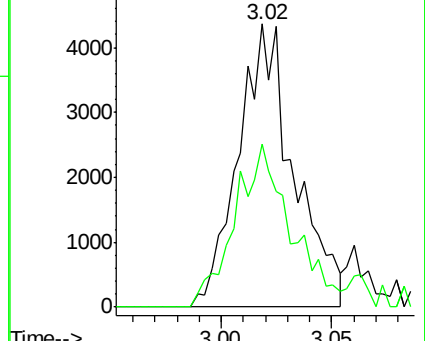
41 100

42 62.9 56.2 84.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#13

Ethanol

Concen: 0.44 ppbv

RT: 3.60 min Scan# 254

Delta R.T. 0.00 min

Lab File: VL038672.D

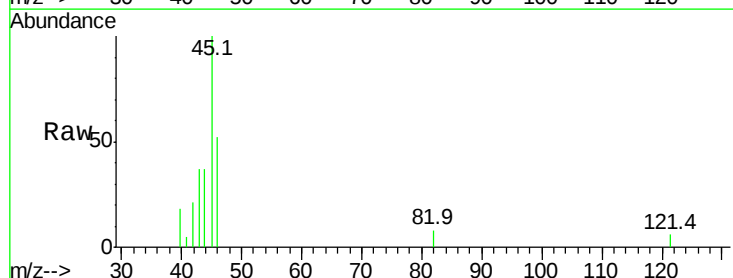
Acq: 22 Mar 2022 5:15

Tgt Ion: 45 Resp: 2323

Ion Ratio Lower Upper

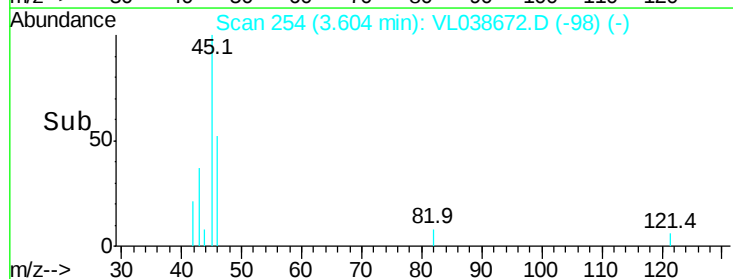
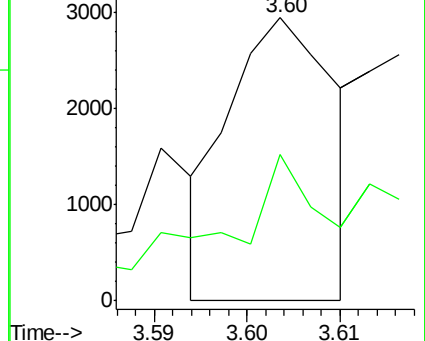
45 100

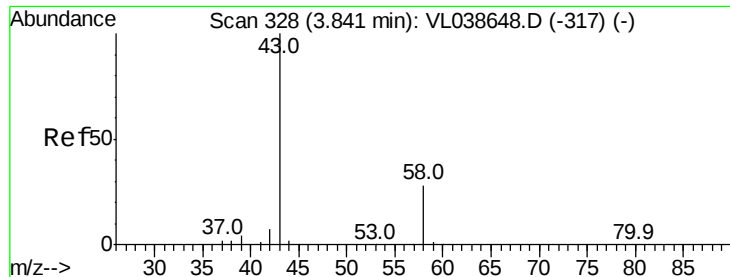
46 132.7 15.1 60.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.09 ppbv

RT: 3.84

Delta R.T.

Lab File:

Acq: 22 Mar 2022

Instrument : MSVOA_1

ClientSampleId : COP84DL

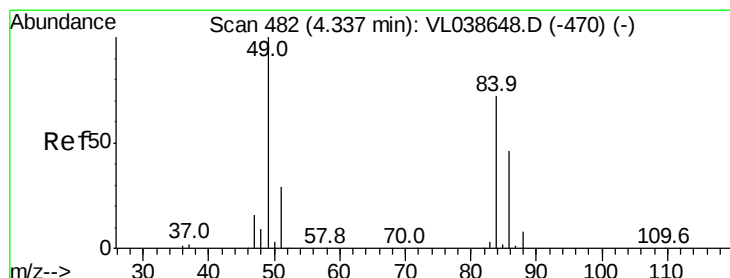
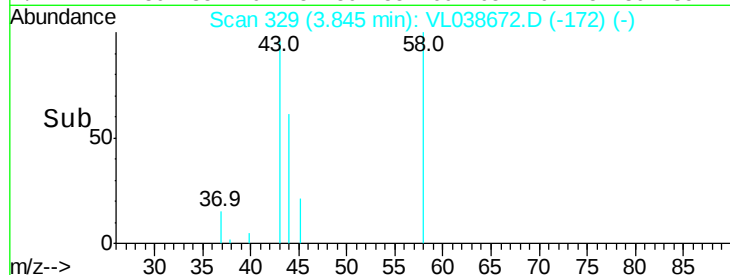
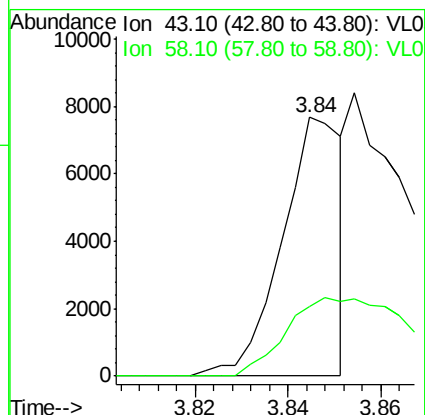
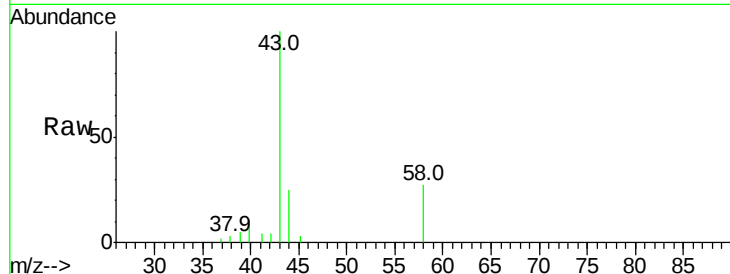
5:15

Tgt Ion: 43 Resp: 6882

Ion Ratio Lower Upper

43 100

58 89.2 23.3 34.9#



#20

Methylene Chloride

Concen: 0.93 ppbv

RT: 4.34 min Scan# 482

Delta R.T. 0.00 min

Lab File: VL038672.D

Acq: 22 Mar 2022 5:15

Tgt Ion: 84 Resp: 31635

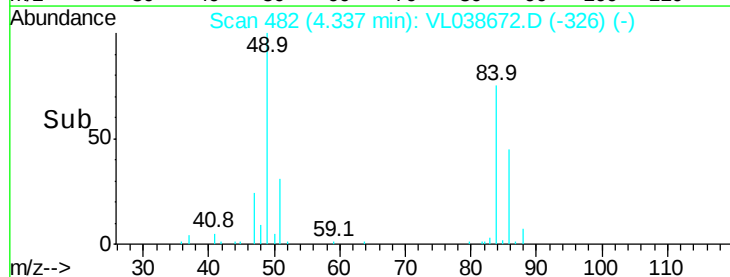
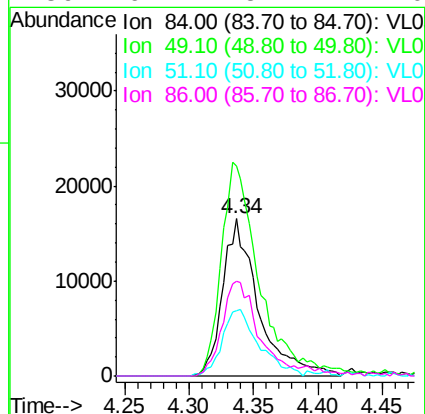
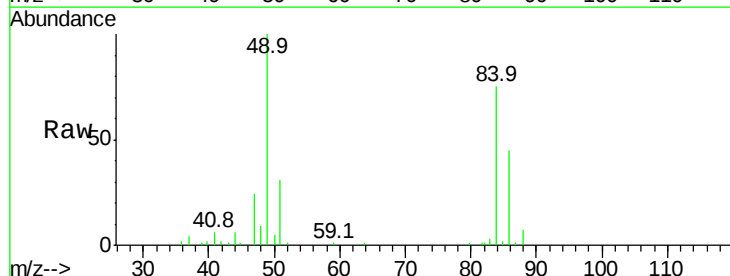
Ion Ratio Lower Upper

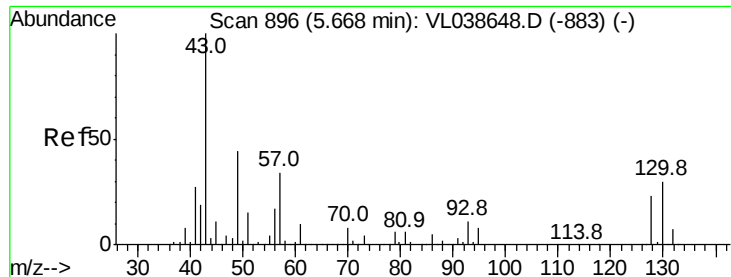
84 100

49 133.6 111.2 166.8

51 41.7 32.8 49.2

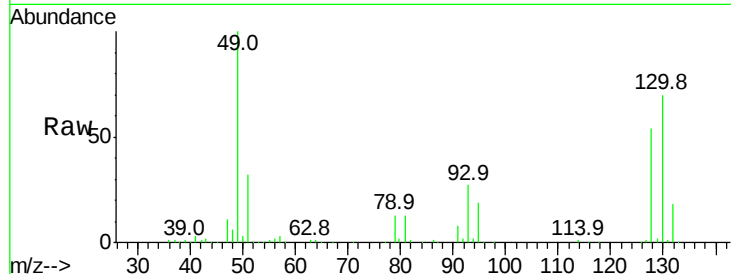
86 61.7 51.4 77.0



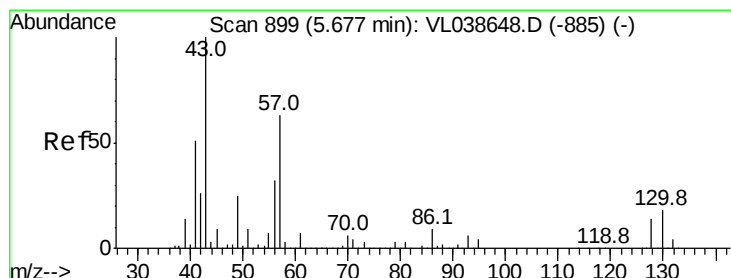
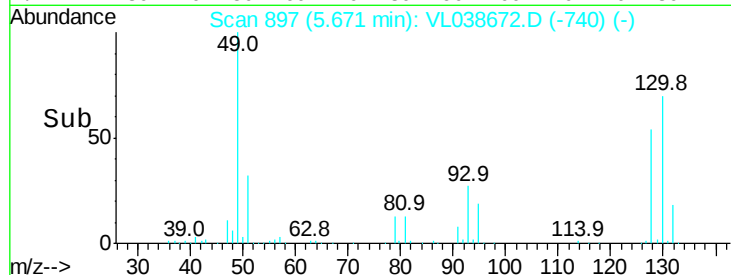
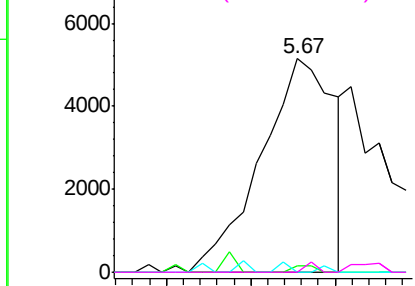


#25
Ethyl Acetate
Concen: 0.03 ppbv
RT: 5.67 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
COP84DL
Acq: 22 Mar 2022 5:15

Tgt Ion:	43	Resp:	6221
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.4#
61	0.0	8.3	12.5#
70	0.0	5.6	8.4#

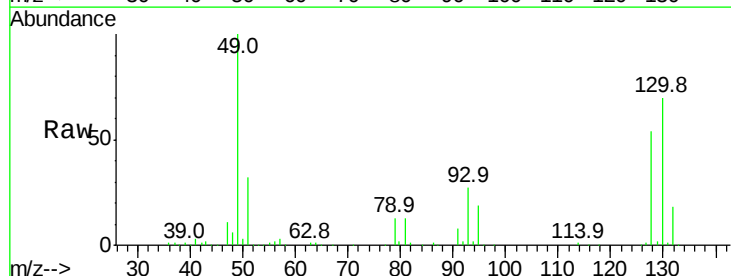


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

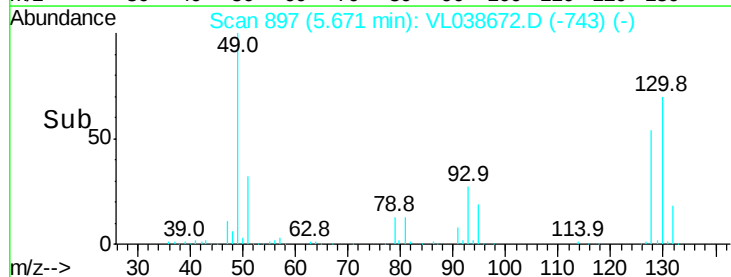
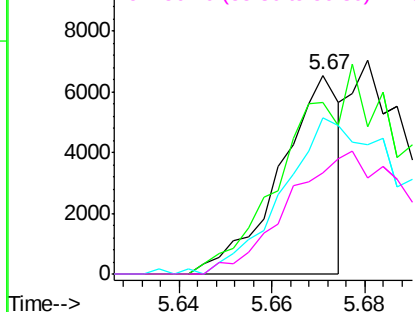


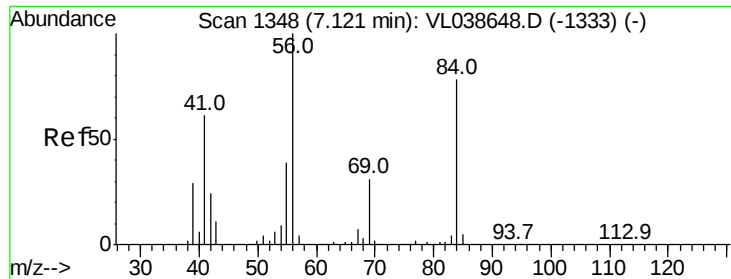
#26
Hexane
Concen: 0.07 ppbv
RT: 5.67 min Scan# 897
Delta R.T.: -0.01 min
Lab File: VL038672.D
Acq: 22 Mar 2022 5:15

Tgt Ion:	57	Resp:	5908
Ion	Ratio	Lower	Upper
57	100		
41	0.0	67.0	100.4#
43	193.2	184.2	276.2
56	0.0	42.6	64.0#



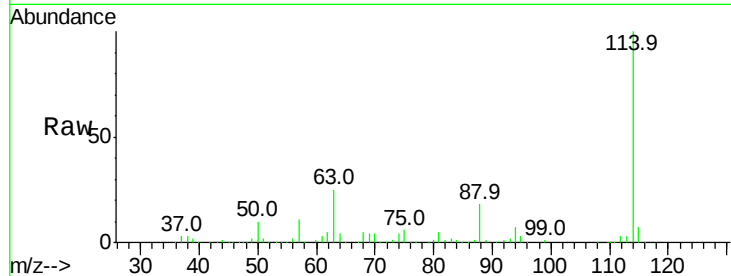
Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0



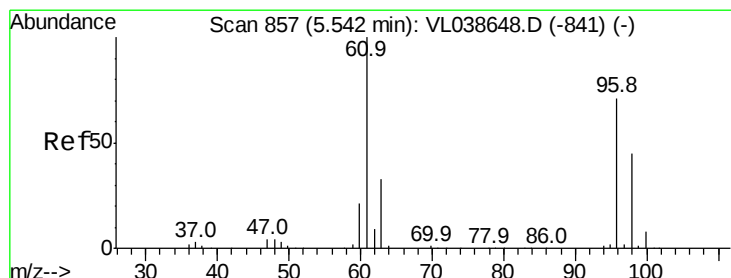
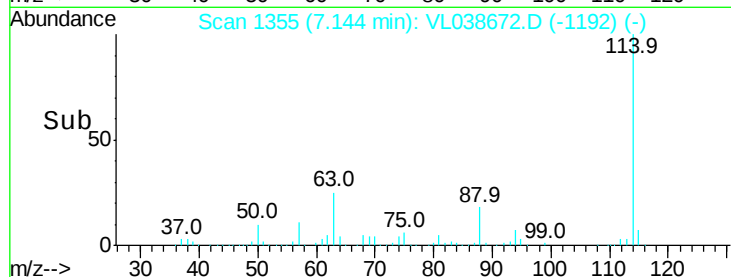
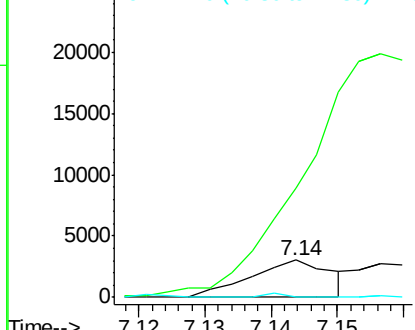


#30
Cyclohexane
Concen: 0.03 ppbv
RT: 7.14
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP84DL
Acq: 22 Mar 2022 5:15

Tgt Ion: 84 Resp: 2597
Ion Ratio Lower Upper
84 100
56 0.0 108.2 162.4#
41 3.7 61.8 92.6#

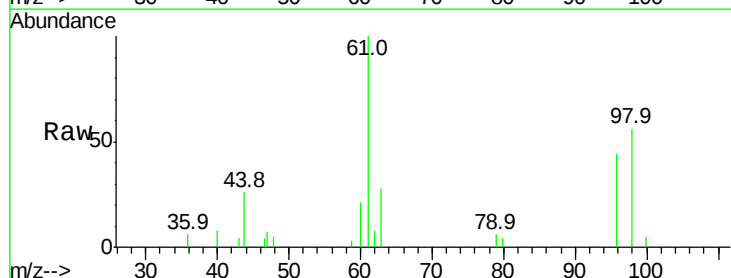


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

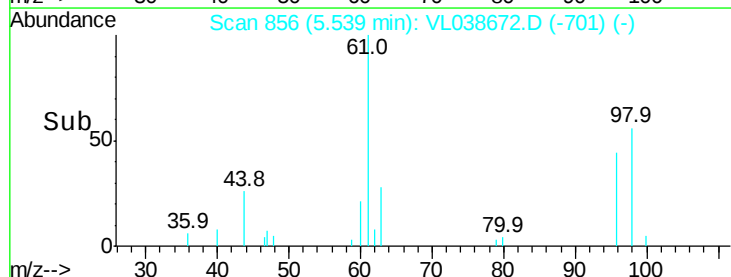
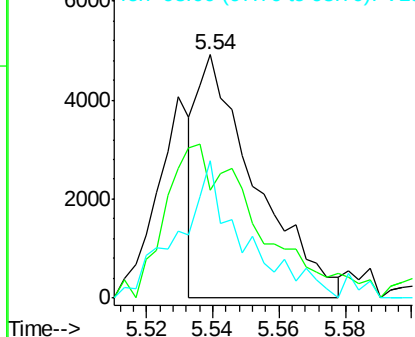


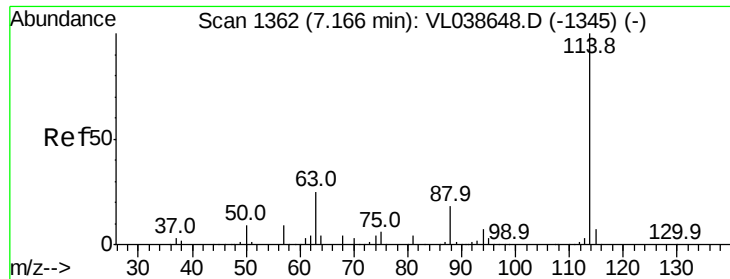
#31
cis-1,2-Dichloroethene
Concen: 0.07 ppbv
RT: 5.54 min Scan# 856
Delta R.T. -0.00 min
Lab File: VL038672.D
Acq: 22 Mar 2022 5:15

Tgt Ion: 61 Resp: 6015
Ion Ratio Lower Upper
61 100
96 37.3 56.6 84.8#
98 61.6 36.3 54.5#



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





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.16

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Mar 2022 5:15

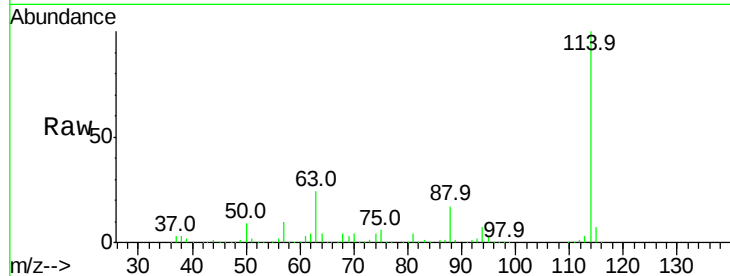
Tgt Ion:114 Resp: 2351046

Ion Ratio Lower Upper

114 100

63 23.8 19.4 29.0

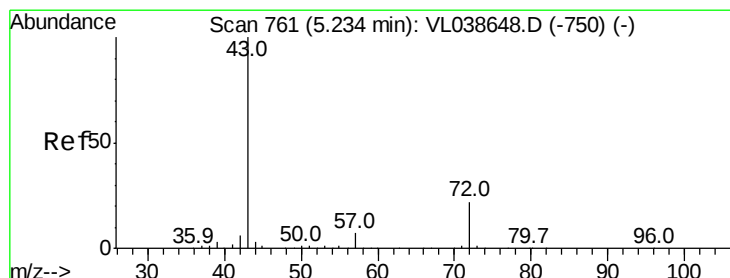
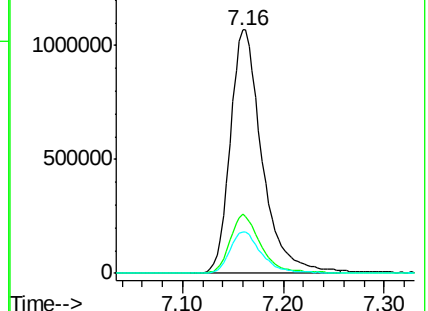
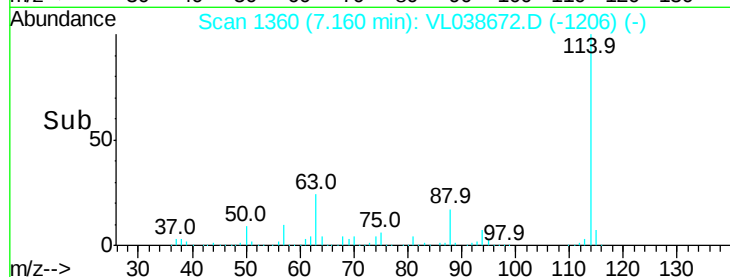
88 17.2 13.9 20.9



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.06 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.02 min

Lab File: VL038672.D

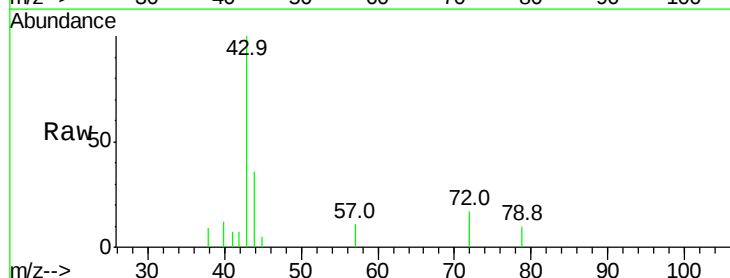
Acq: 22 Mar 2022 5:15

Tgt Ion: 43 Resp: 5699

Ion Ratio Lower Upper

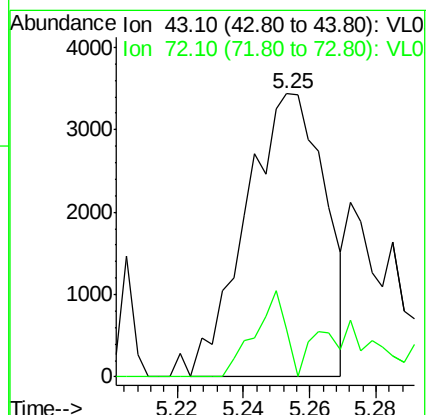
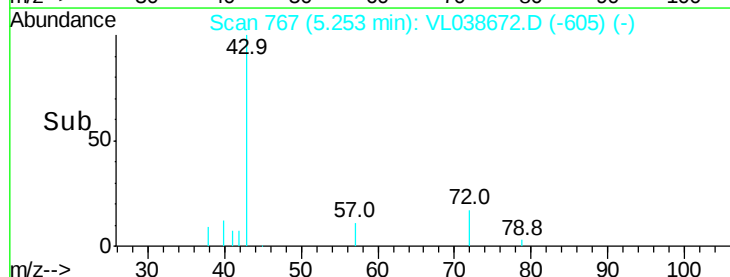
43 100

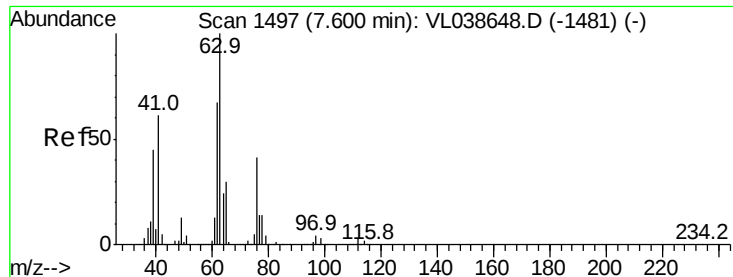
72 28.9 17.8 26.8#



Abundance Ion 43.10 (42.80 to 43.80): VL0

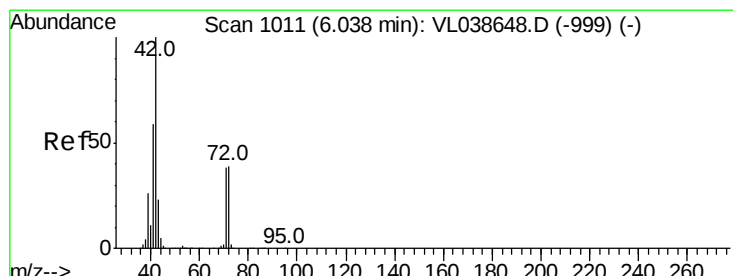
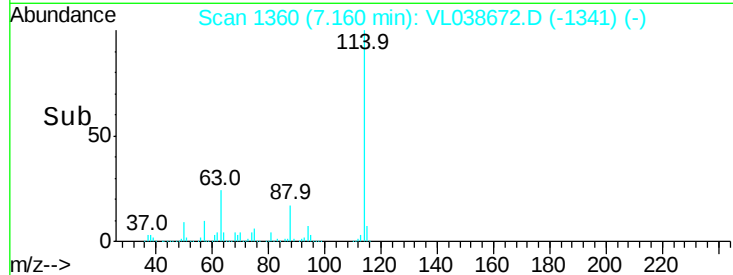
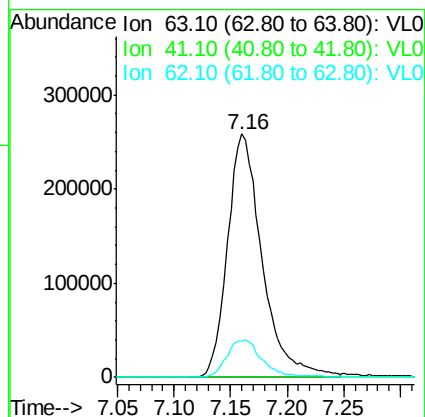
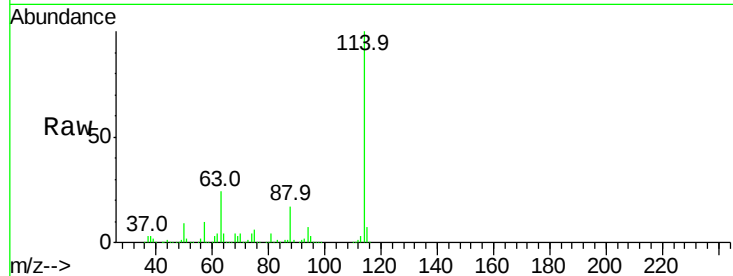
Ion 72.10 (71.80 to 72.80): VL0





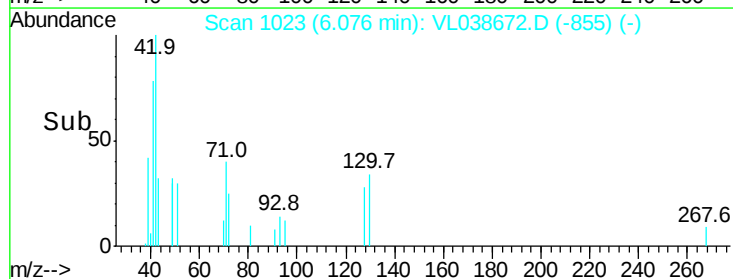
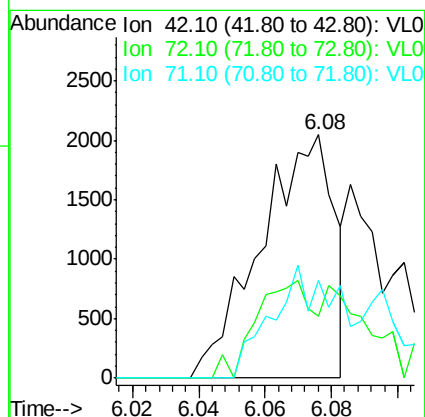
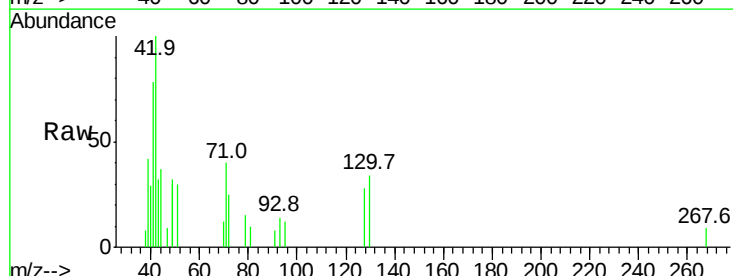
#39
 1,2-Dichloropropane
 Concen: 7.78 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 C0P84DL
 Acq: 22 Mar 2022 5:15

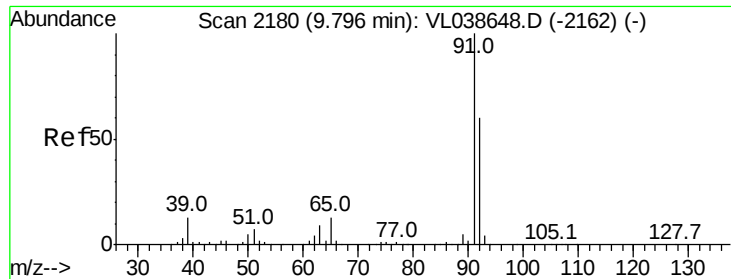
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	49.0	73.6#
62	15.0	53.9	80.9#



#41
 Tetrahydrofuran
 Concen: 0.05 ppbv
 RT: 6.08 min Scan# 1023
 Delta R.T. 0.04 min
 Lab File: VL038672.D
 Acq: 22 Mar 2022 5:15

Tgt Ion	Ratio	Lower	Upper
42	100		
72	55.0	32.5	48.7#
71	61.5	31.4	47.2#





#53

Toluene

Concen: 0.16 ppbv

RT: 9.79 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: COP84DL

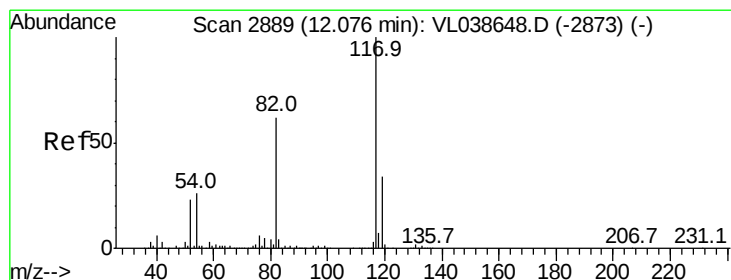
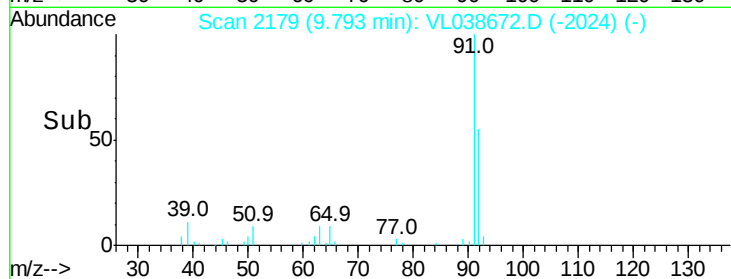
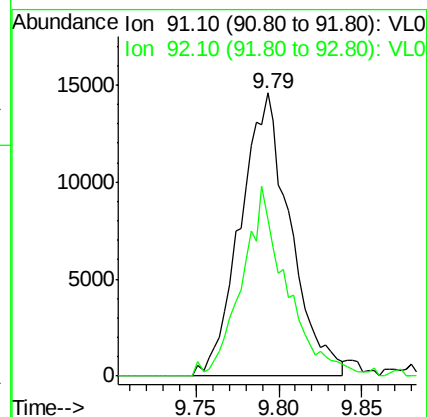
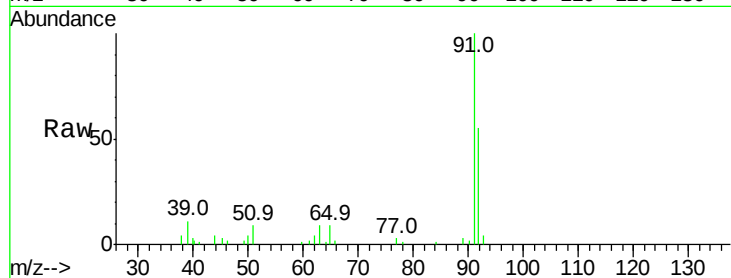
Acq: 22 Mar 2022 5:15

Tgt Ion: 91 Resp: 30528

Ion Ratio Lower Upper

91 100

92 60.5 48.7 73.1



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. -0.01 min

Lab File: VL038672.D

Acq: 22 Mar 2022 5:15

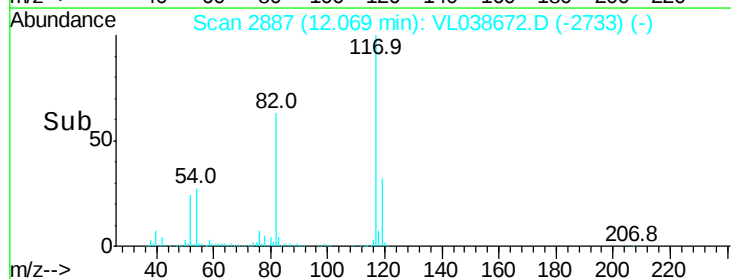
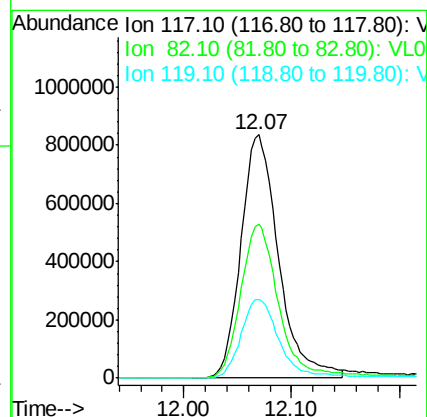
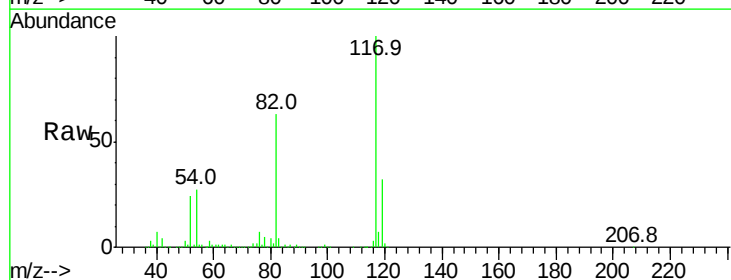
Tgt Ion: 117 Resp: 2039468

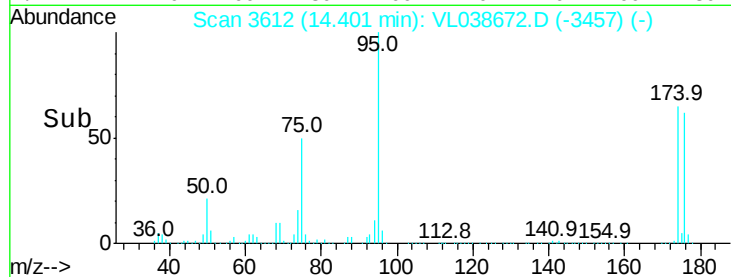
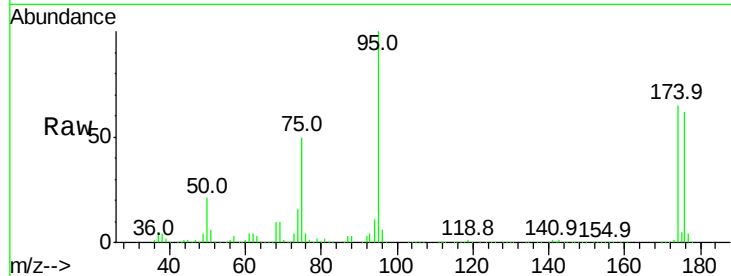
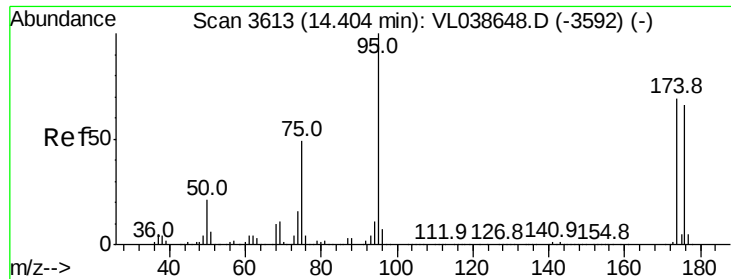
Ion Ratio Lower Upper

117 100

82 65.6 51.6 77.4

119 34.3 26.9 40.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.44 ppbv

RT: 14.40

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Mar 2022 3:13

Tgt Ion: 95 Resp: 1476216

Ion Ratio Lower Upper

95 100

174 75.0 56.1 84.1

175 5.2 4.2 6.2

