

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032322\
 Data File : VL038729.D
 Acq On : 23 Mar 2022 23:49
 Operator : SY/AP
 Sample : N2047-05DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 24 04:36:14 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	5.66	49	908733	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2481645	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2134304	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1541828	9.42	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.20%

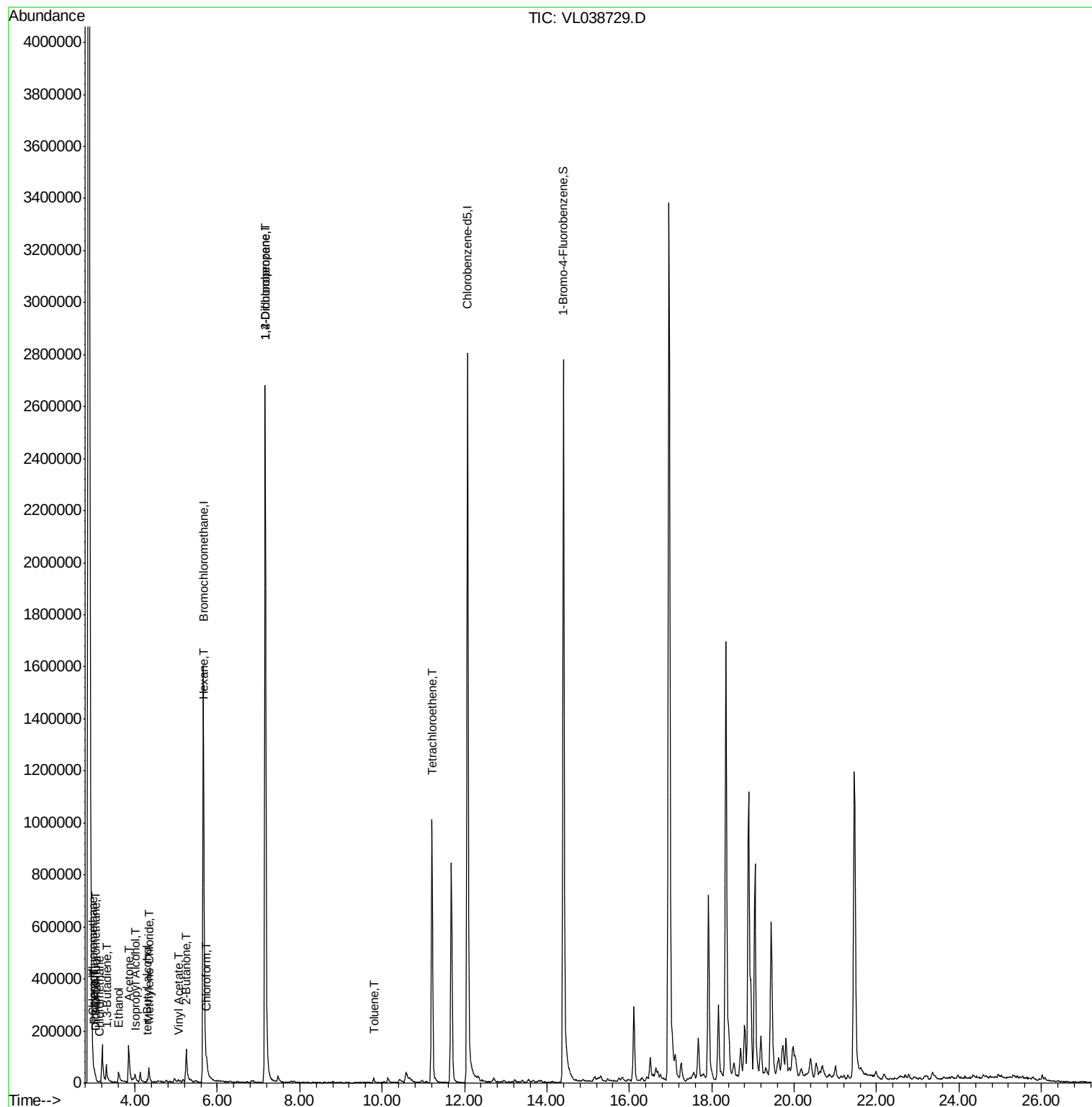
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	10796	0.088 ppbv	93
3) Chlorodifluoromethane	2.99	51	5599	0.058 ppbv	99
4) Chloromethane	3.14	50	2642	0.050 ppbv	90
9) Propene	3.02	41	14515	0.313 ppbv	95
13) Ethanol	3.61	45	51066	9.991 ppbv	83
15) Acetone	3.85	43	192177	2.451 ppbv #	87
16) 1,3-Butadiene	3.33	39	1682	0.038 ppbv #	6
17) tert-Butyl alcohol	4.30	59	6000	0.088 ppbv #	83
19) Isopropyl Alcohol	3.99	45	2051	0.047 ppbv #	91
20) Methylene Chloride	4.34	84	21807	0.660 ppbv	96
23) Vinyl Acetate	5.06	43	3378	0.044 ppbv #	76
26) Hexane	5.68	57	9179	0.104 ppbv #	36
29) Chloroform	5.74	83	29951	0.212 ppbv	88
34) 2-Butanone	5.24	43	180477	1.837 ppbv	92
39) 1,2-Dichloropropane	7.17	63	566308	7.563 ppbv #	28
52) Tetrachloroethene	11.21	164	284246	4.055 ppbv	97
53) Toluene	9.80	91	7792	0.038 ppbv #	46

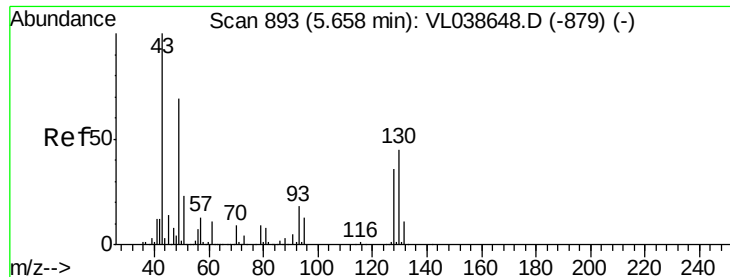
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_L
ClientSampleId :

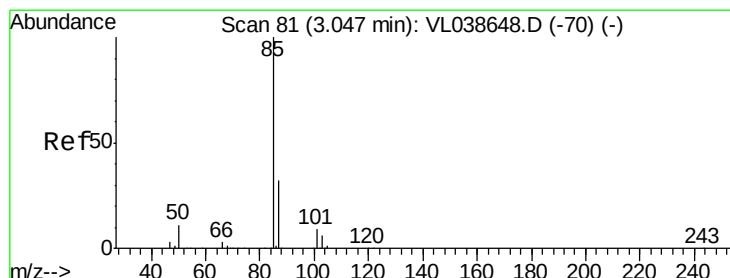
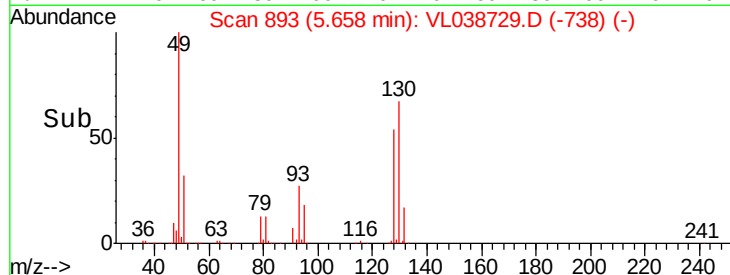
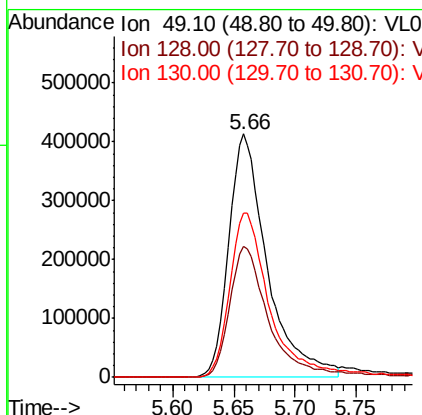
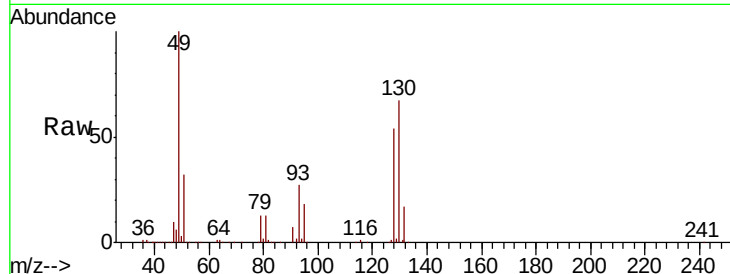
Quant Time: Mar 24 04:36:14 2022
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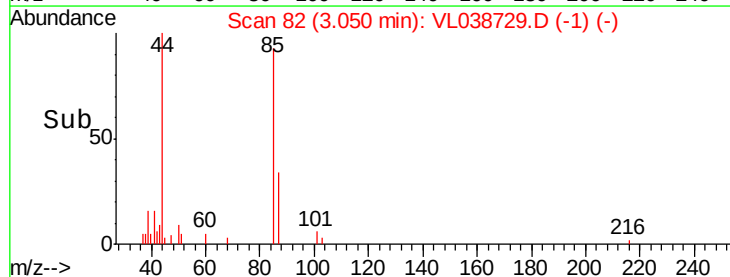
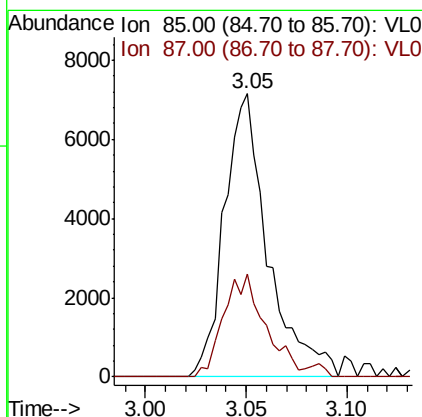
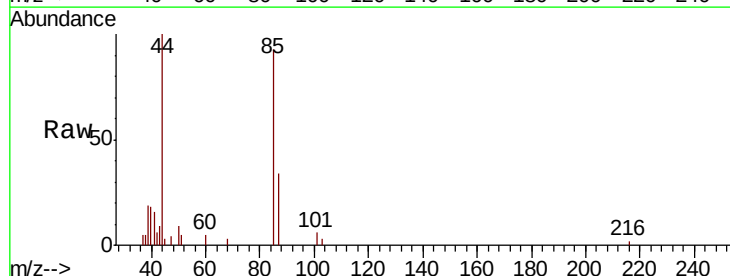
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 23:49

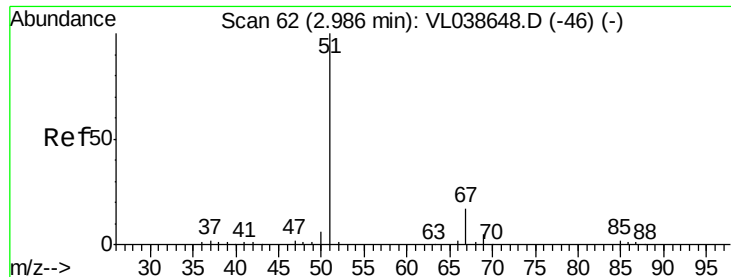
Tot Ion: 49 Resp: 908733
 Ion Ratio Lower Upper
 49 100
 128 56.6 26.2 78.6
 130 73.5 33.7 101.1



#2
 Dichlorodifluoromethane
 Concen: 0.088 ppbv
 RT: 3.05 min Scan# 82
 Delta R.T. 0.00 min
 Lab File: VL038729.D
 Acq: 23 Mar 2022 23:49

Tgt Ion: 85 Resp: 10796
 Ion Ratio Lower Upper
 85 100
 87 36.4 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.058 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

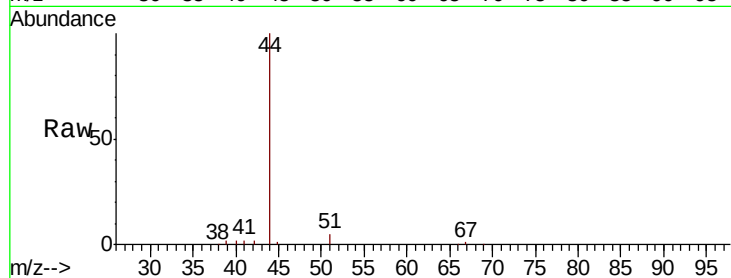
Acq: 23 Mar 2022 23:49

Tot Ion: 51 Resp: 5599

Ion Ratio Lower Upper

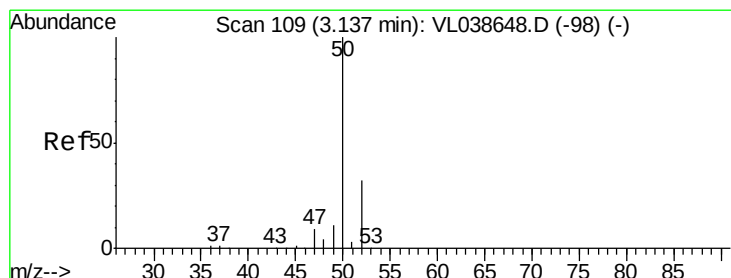
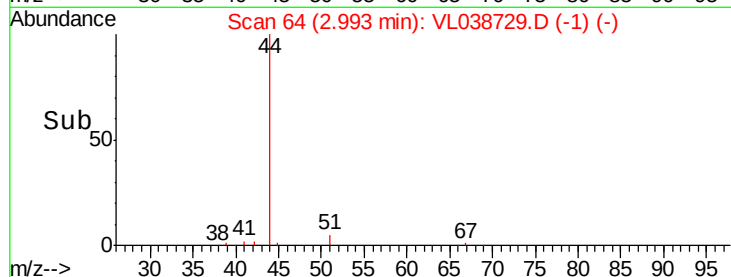
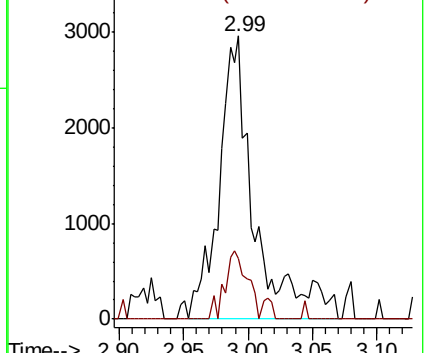
51 100

67 17.4 14.1 21.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.050 ppbv

RT: 3.14 min Scan# 110

Delta R.T. 0.00 min

Lab File: VL038729.D

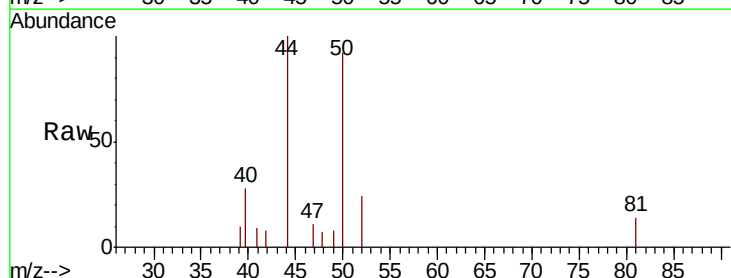
Acq: 23 Mar 2022 23:49

Tgt Ion: 50 Resp: 2642

Ion Ratio Lower Upper

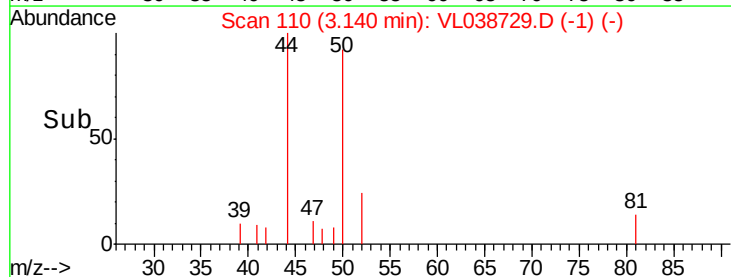
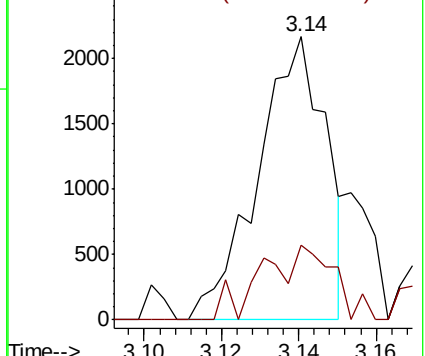
50 100

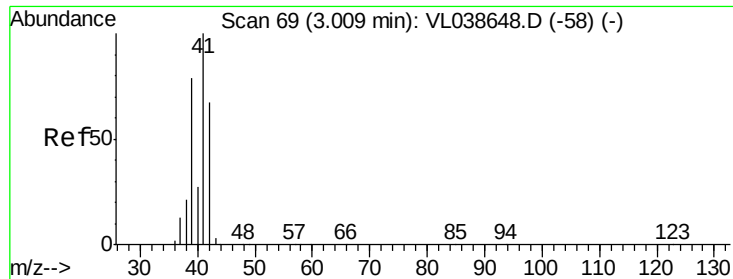
52 26.4 25.5 38.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.313 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

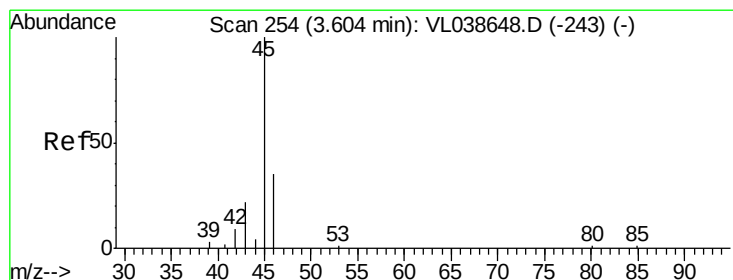
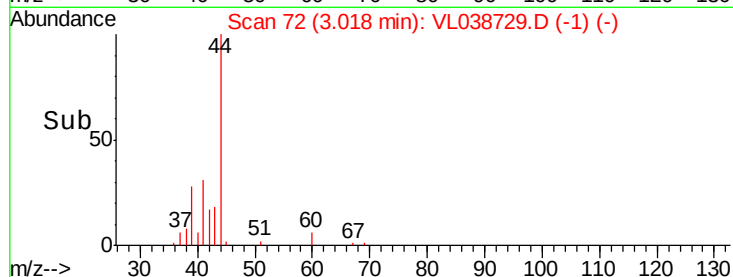
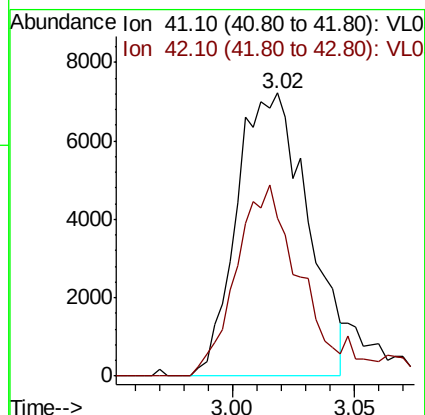
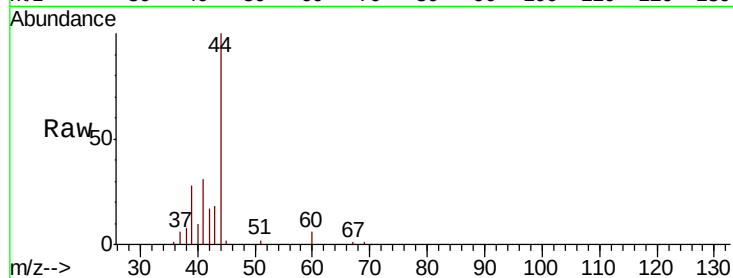
Acq: 23 Mar 2022 23:49

Tot Ion: 41 Resp: 14515

Ion Ratio Lower Upper

41 100

42 66.5 56.2 84.4



#13

Ethanol

Concen: 9.991 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.01 min

Lab File: VL038729.D

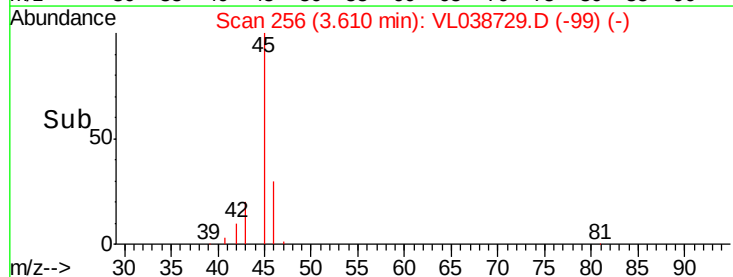
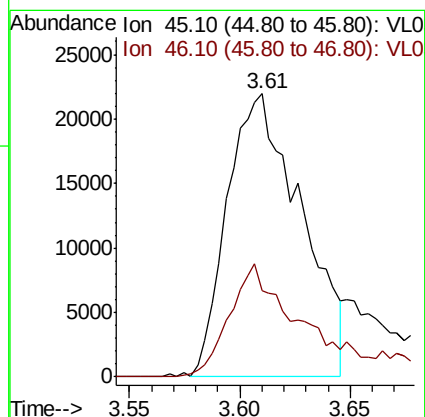
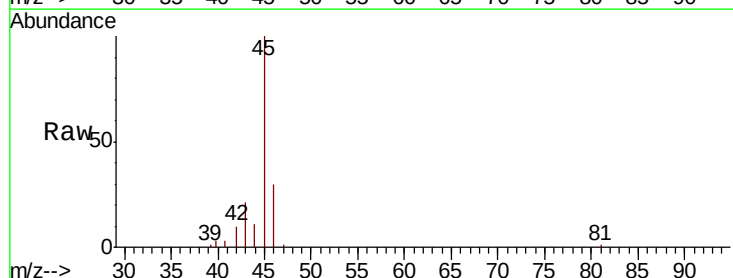
Acq: 23 Mar 2022 23:49

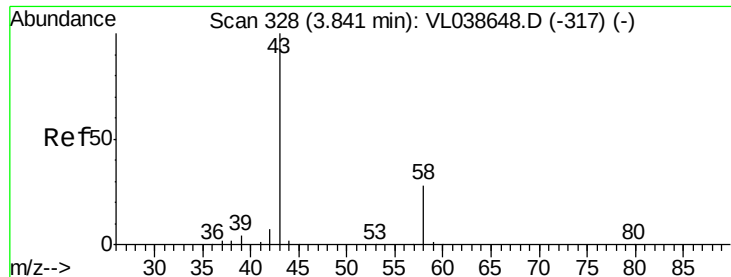
Tgt Ion: 45 Resp: 51066

Ion Ratio Lower Upper

45 100

46 48.1 15.1 60.5





#15

Acetone

Concen: 2.451 ppbv

RT: 3.85 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

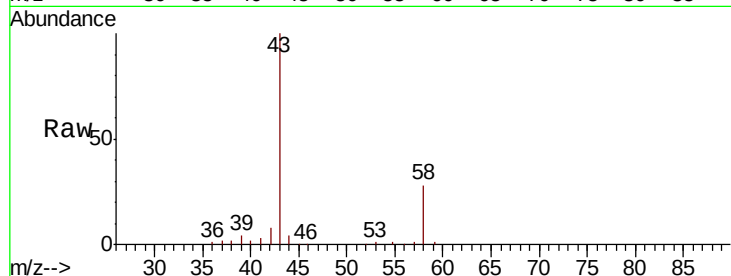
Acq: 23 Mar 2022 23:49

Tot Ion: 43 Resp: 192177

Ion Ratio Lower Upper

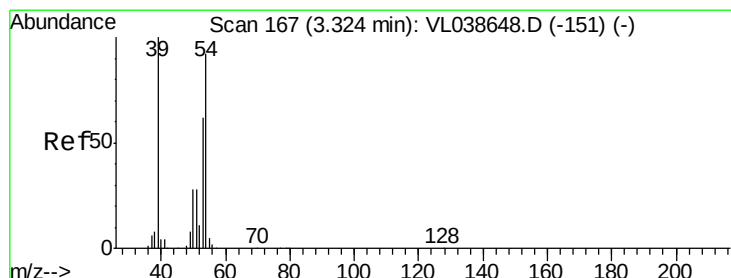
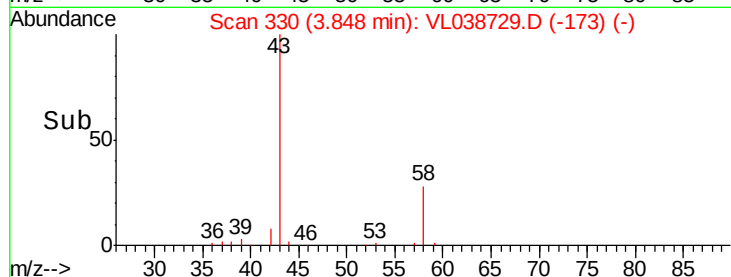
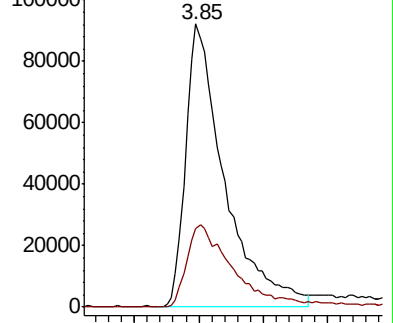
43 100

58 36.2 23.3 34.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.038 ppbv

RT: 3.33 min Scan# 169

Delta R.T. 0.01 min

Lab File: VL038729.D

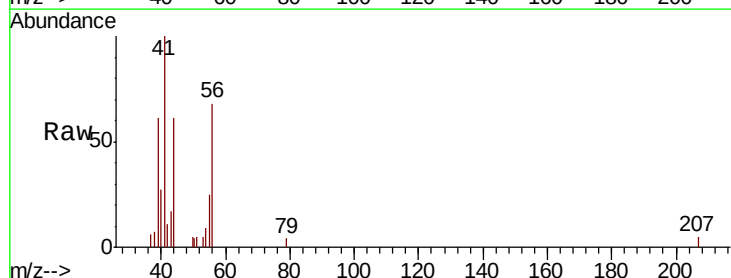
Acq: 23 Mar 2022 23:49

Tgt Ion: 39 Resp: 1682

Ion Ratio Lower Upper

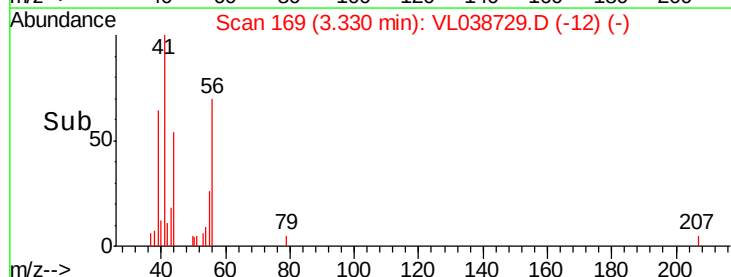
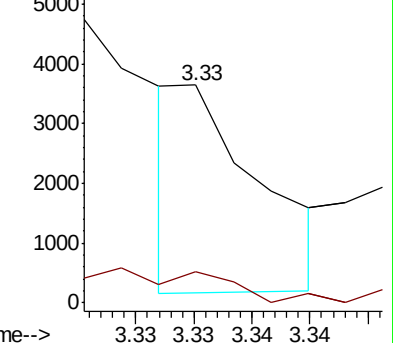
39 100

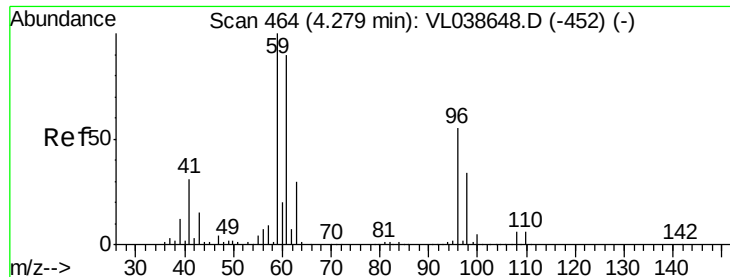
54 0.0 69.1 103.7#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.088 ppbv

RT: 4.30 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

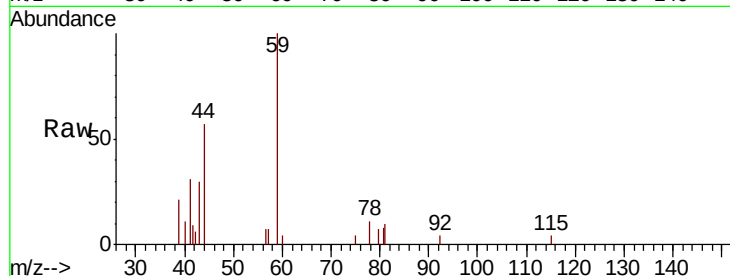
Acq: 23 Mar 2022 23:49

Tot Ion: 59 Resp: 6000

Ion Ratio Lower Upper

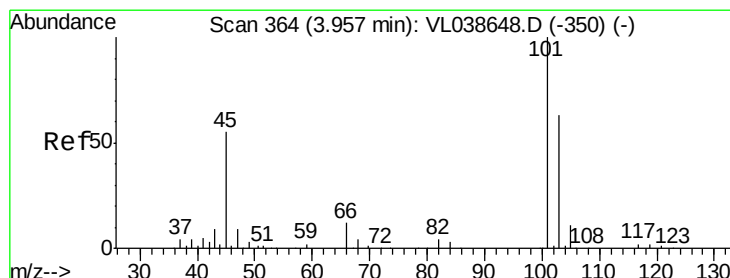
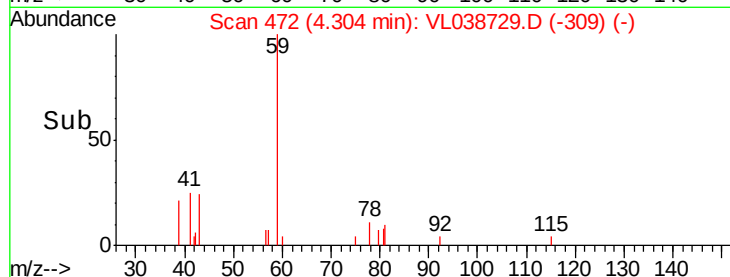
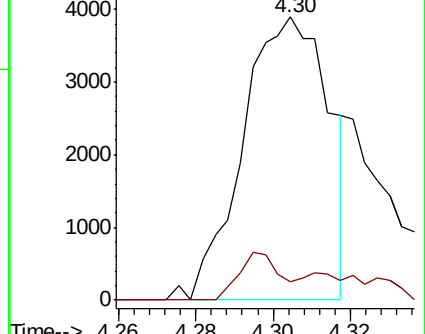
59 100

57 16.4 8.2 12.2#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 0.047 ppbv

RT: 3.99 min Scan# 374

Delta R.T. 0.03 min

Lab File: VL038729.D

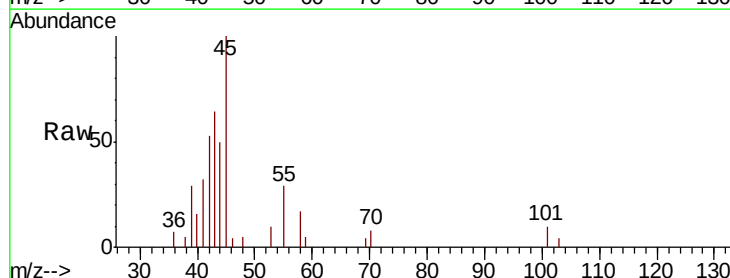
Acq: 23 Mar 2022 23:49

Tgt Ion: 45 Resp: 2051

Ion Ratio Lower Upper

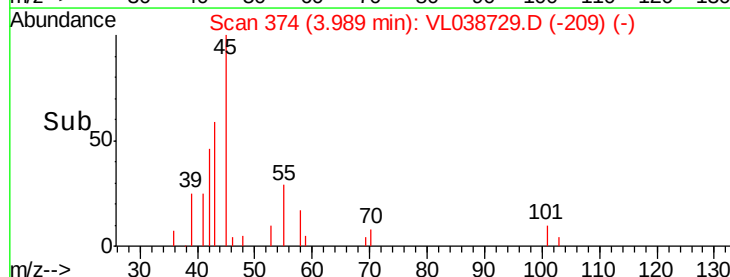
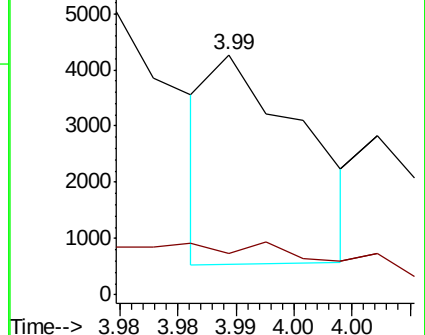
45 100

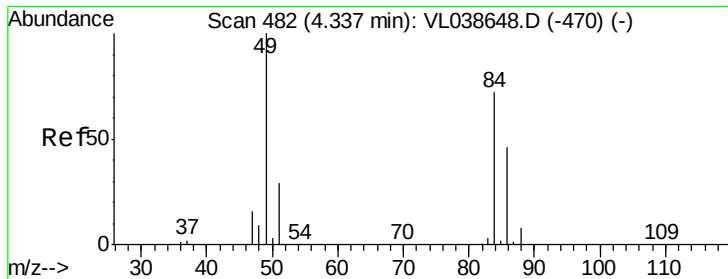
58 0.0 2.3 3.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

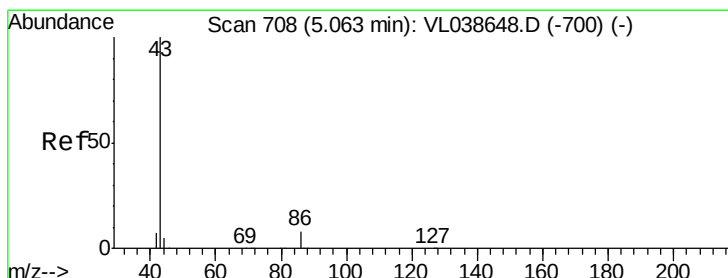
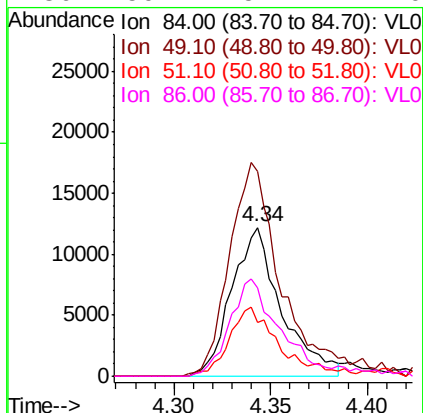
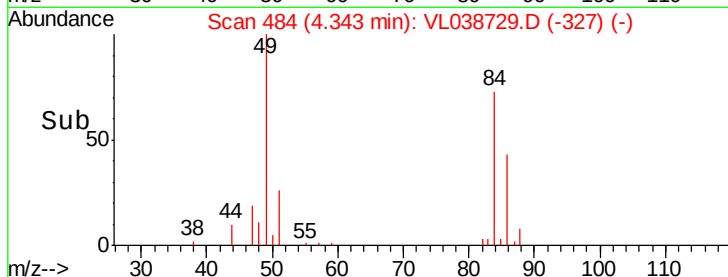
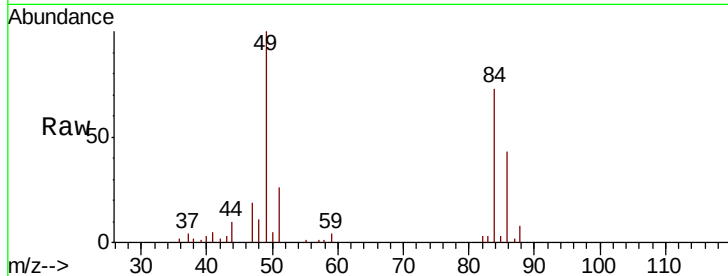
Ion 58.10 (57.80 to 58.80): VL0





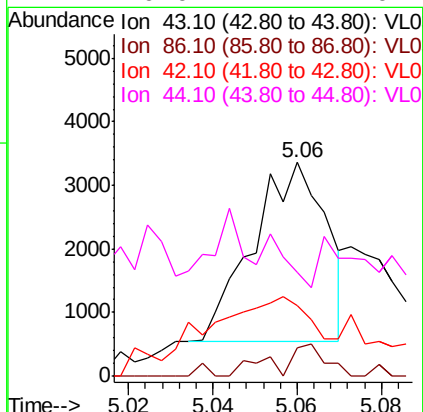
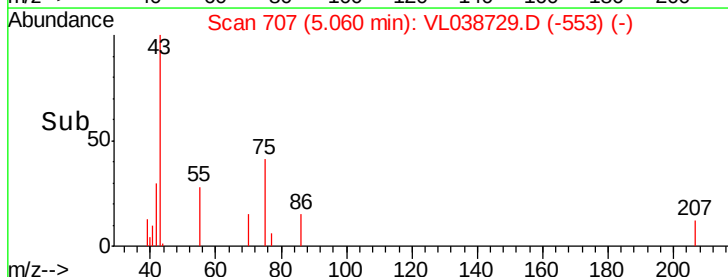
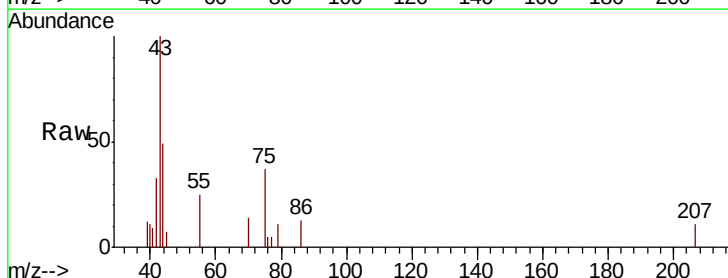
#20
Methvlene Chloride
Concen: 0.660 ppbv
RT: 4.34 Instrument :
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 23:49

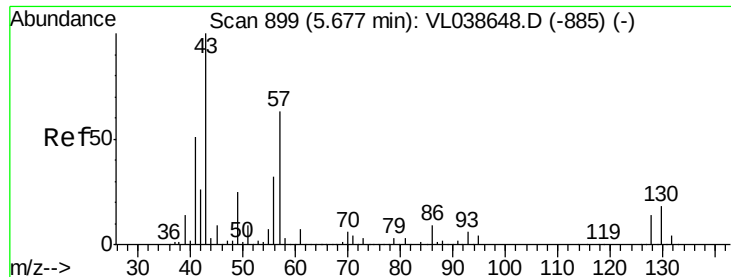
Tot Ion:	84	Resp:	21807
Ion	Ratio	Lower	Upper
84	100		
49	136.5	111.2	166.8
51	35.9	32.8	49.2
86	59.4	51.4	77.0



#23
Vinyl Acetate
Concen: 0.044 ppbv
RT: 5.06 min Scan# 707
Delta R.T. -0.00 min
Lab File: VL038729.D
Acq: 23 Mar 2022 23:49

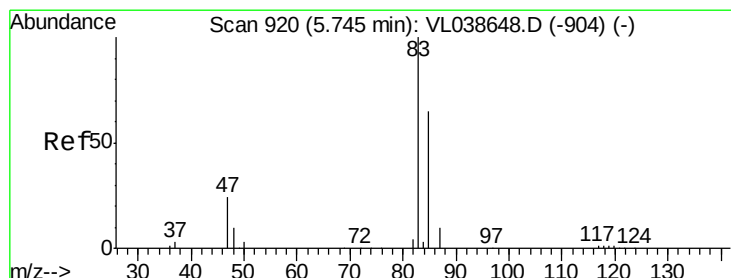
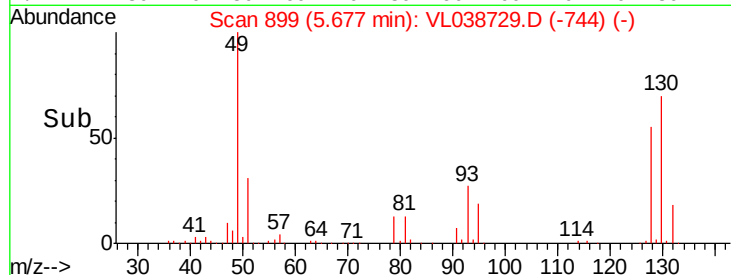
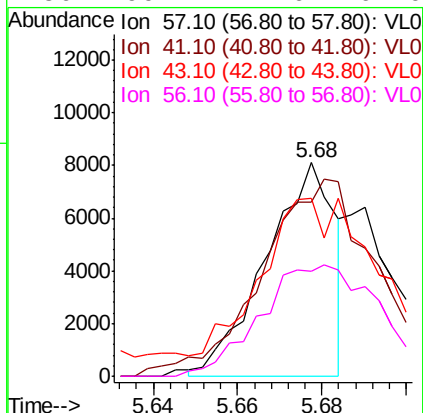
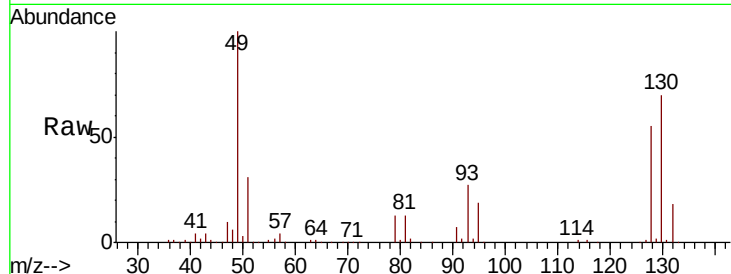
Tgt Ion:	43	Resp:	3378
Ion	Ratio	Lower	Upper
43	100		
86	16.0	5.6	8.4#
42	18.5	6.8	10.2#
44	0.0	4.2	6.2#





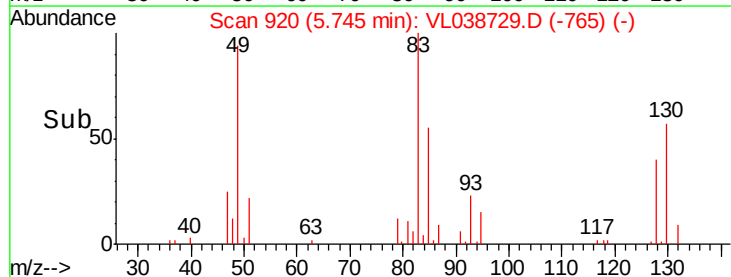
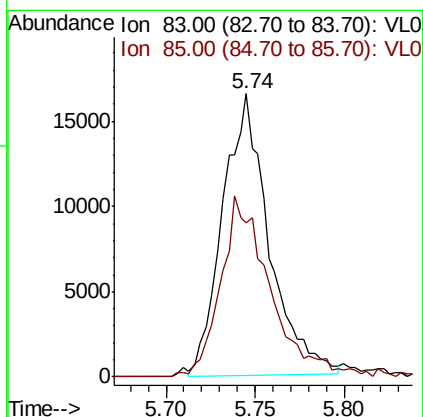
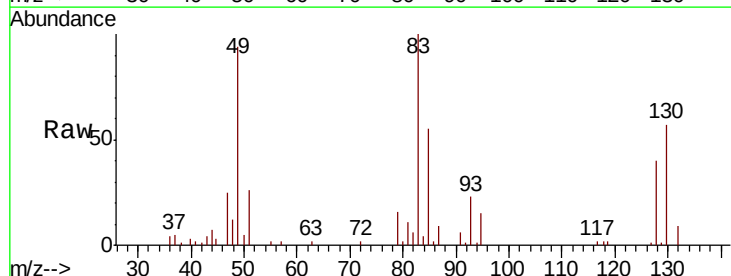
#26
Hexane
Concen: 0.104 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Mar 2022 23:49

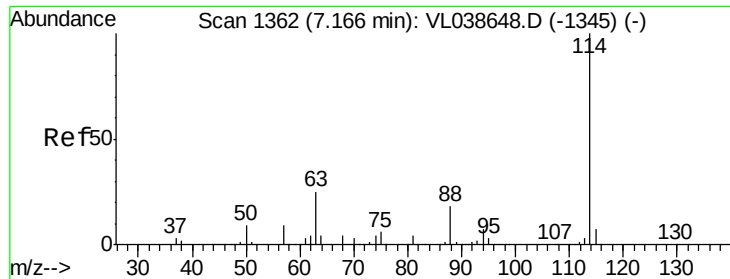
Tot Ion	57	Resp	9179
Ion Ratio	Lower	Upper	
57	100		
41	173.3	67.0	100.4#
43	144.2	184.2	276.2#
56	99.2	42.6	64.0#



#29
Chloroform
Concen: 0.212 ppbv
RT: 5.74 min Scan# 920
Delta R.T.: -0.00 min
Lab File: VL038729.D
Acq: 23 Mar 2022 23:49

Tgt Ion	83	Resp	29951
Ion Ratio	Lower	Upper	
83	100		
85	54.8	51.7	77.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 23:49

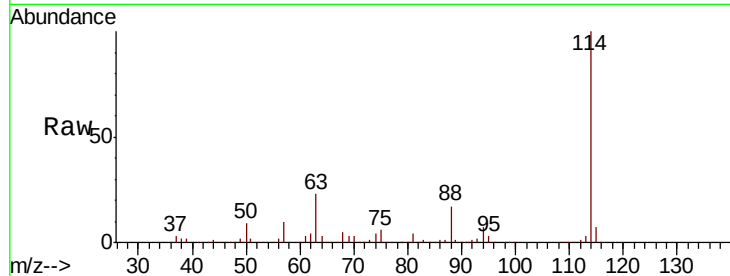
Tot Ion:114 Resp: 2481645

Ion Ratio Lower Upper

114 100

63 23.2 19.4 29.0

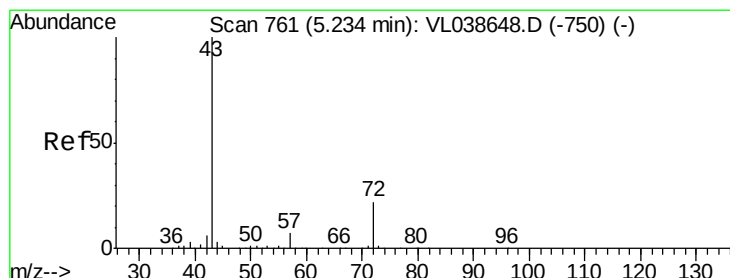
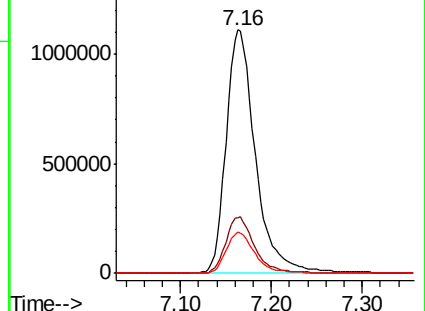
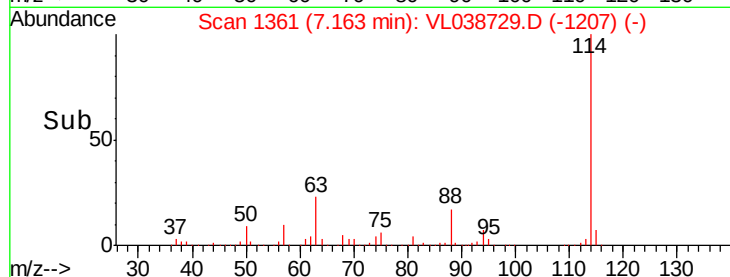
88 16.8 13.9 20.9



Abundance Ion 114.10 (113.80 to 114.80): V

1500000 Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 1.837 ppbv

RT: 5.24 min Scan# 764

Delta R.T. 0.01 min

Lab File: VL038729.D

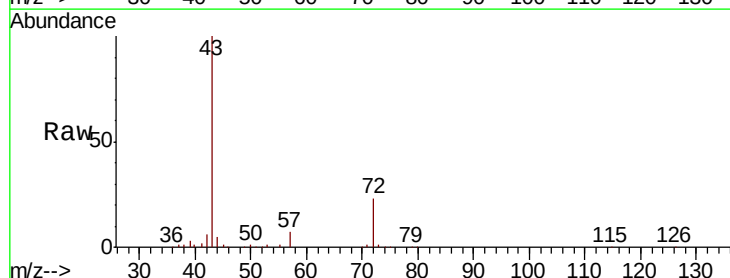
Acq: 23 Mar 2022 23:49

Tgt Ion: 43 Resp: 180477

Ion Ratio Lower Upper

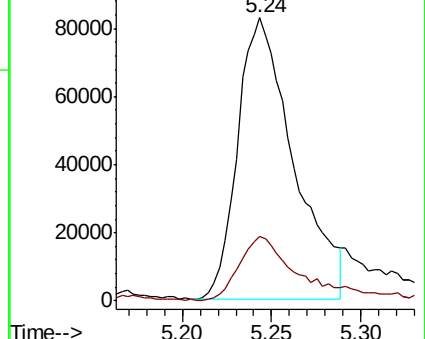
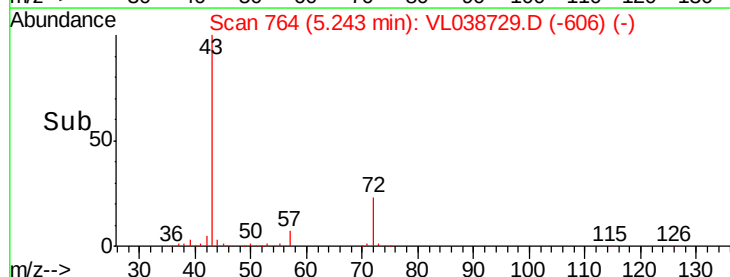
43 100

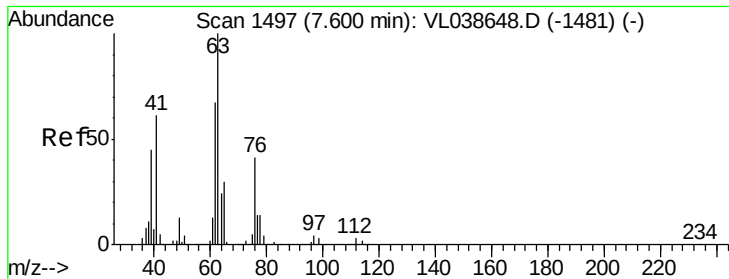
72 26.2 17.8 26.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

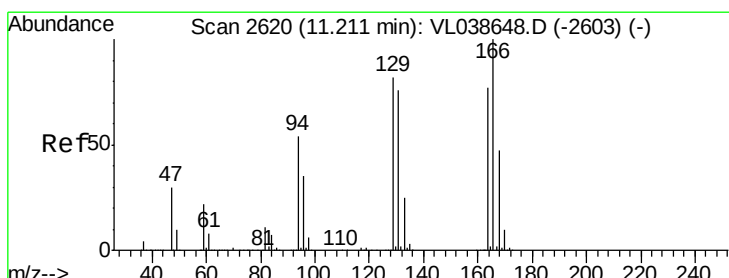
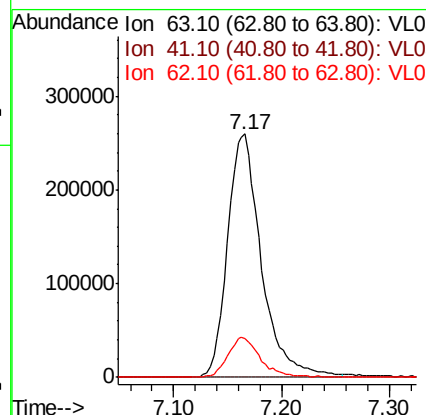
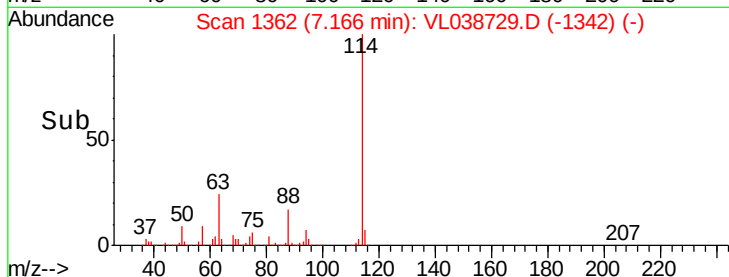
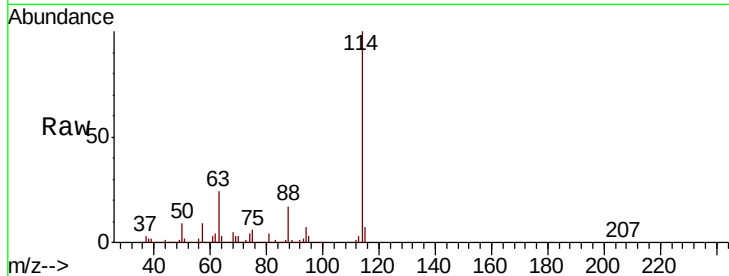
Ion 72.10 (71.80 to 72.80): VL0





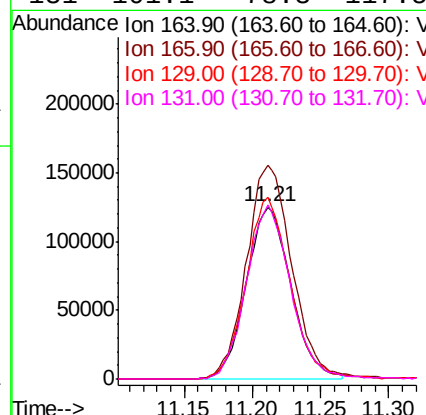
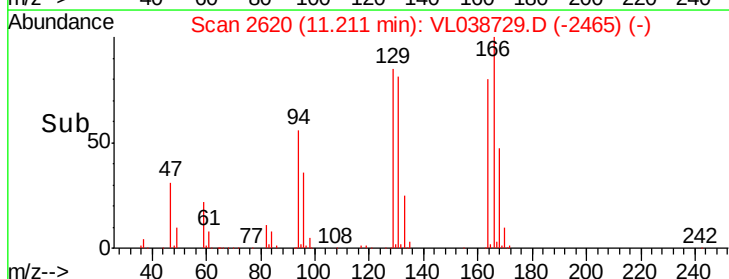
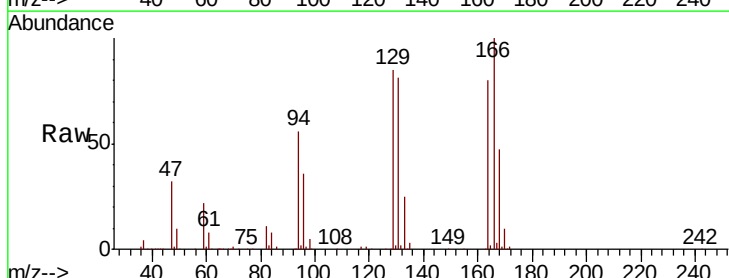
#39
 1,2-Dichloropropane
 Concen: 7.563 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 23:49

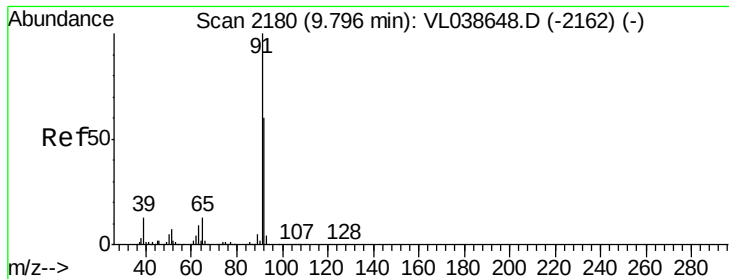
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.1	49.0	73.6#
62	16.1	53.9	80.9#



#52
 Tetrachloroethene
 Concen: 4.055 ppbv
 RT: 11.21 min Scan# 2620
 Delta R.T. -0.00 min
 Lab File: VL038729.D
 Acq: 23 Mar 2022 23:49

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.2	103.3	154.9
129	105.4	85.2	127.8
131	101.1	78.3	117.5





#53

Toluene

Concen: 0.038 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

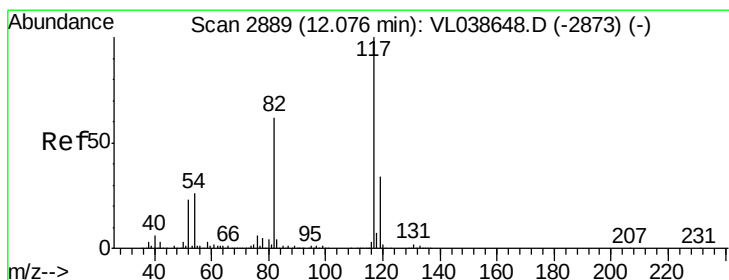
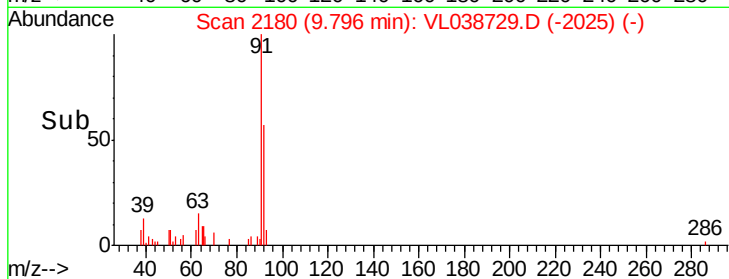
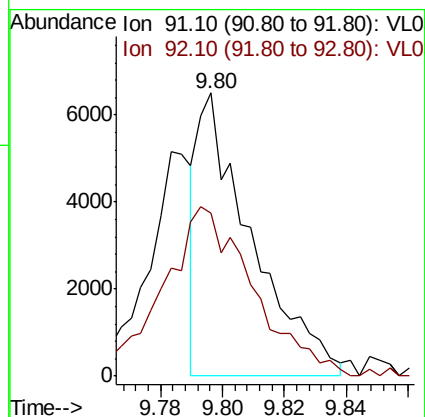
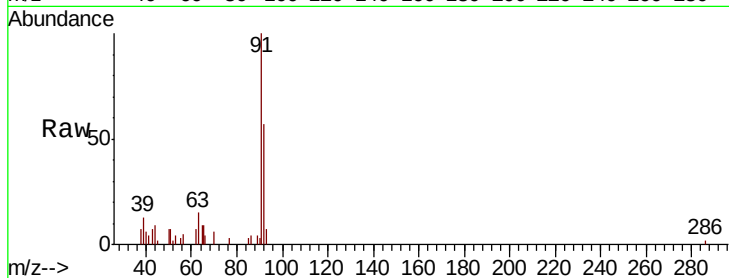
Acq: 23 Mar 2022 23:49

Tot Ion: 91 Resp: 7792

Ion Ratio Lower Upper

91 100

92 102.2 48.7 73.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.00 min

Lab File: VL038729.D

Acq: 23 Mar 2022 23:49

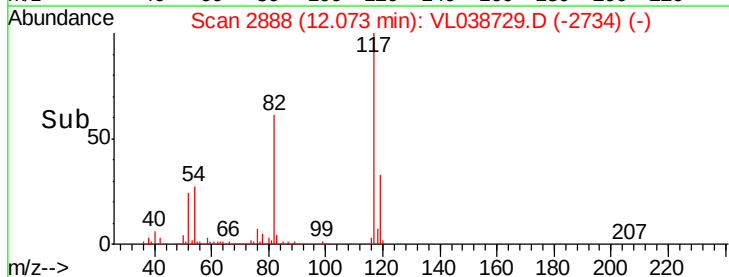
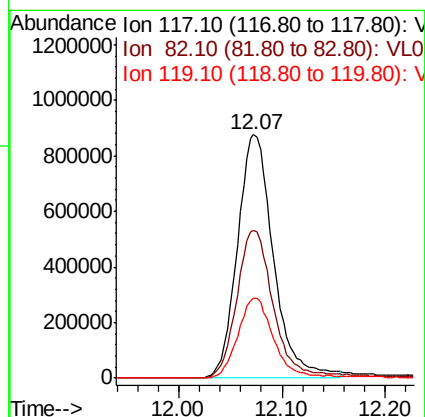
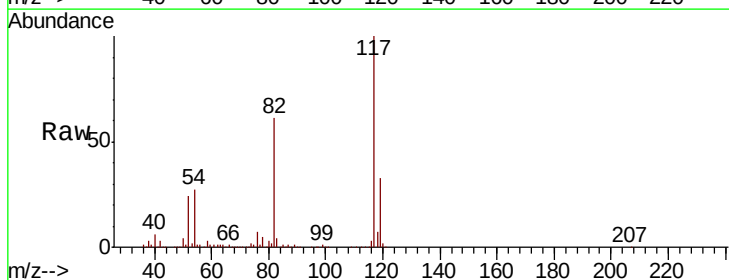
Tgt Ion: 117 Resp: 2134304

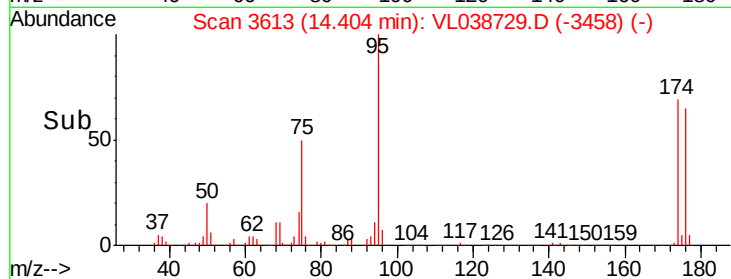
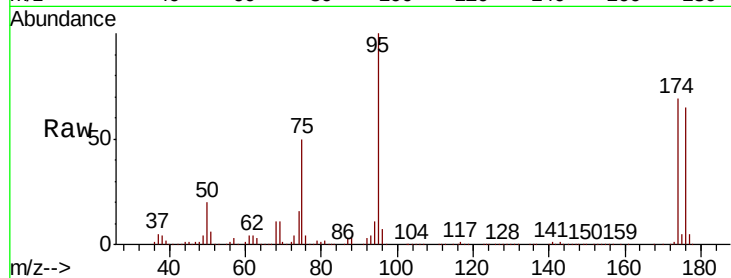
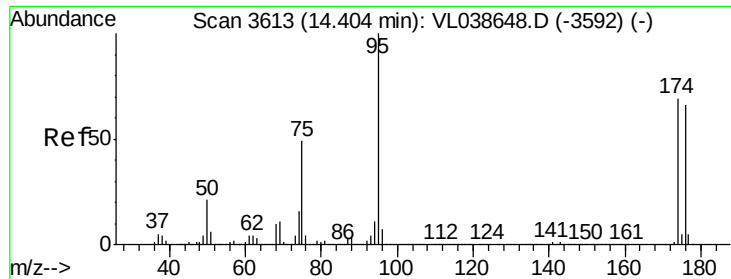
Ion Ratio Lower Upper

117 100

82 63.4 51.6 77.4

119 33.9 26.9 40.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.422 ppbv

RT: 14.40

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 Mar 2022 23:49

Tot Ion: 95 Resp: 1541828

Ion Ratio Lower Upper

95 100

174 72.9 56.1 84.1

175 5.2 4.2 6.2

