

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032322\
 Data File : VL038725.D
 Acq On : 23 Mar 2022 21:10
 Operator : SY/AP
 Sample : N2047-03DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 24 04:35:29 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	5.65	49	879838	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2353066	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2022061	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	1437134	9.27	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.70%

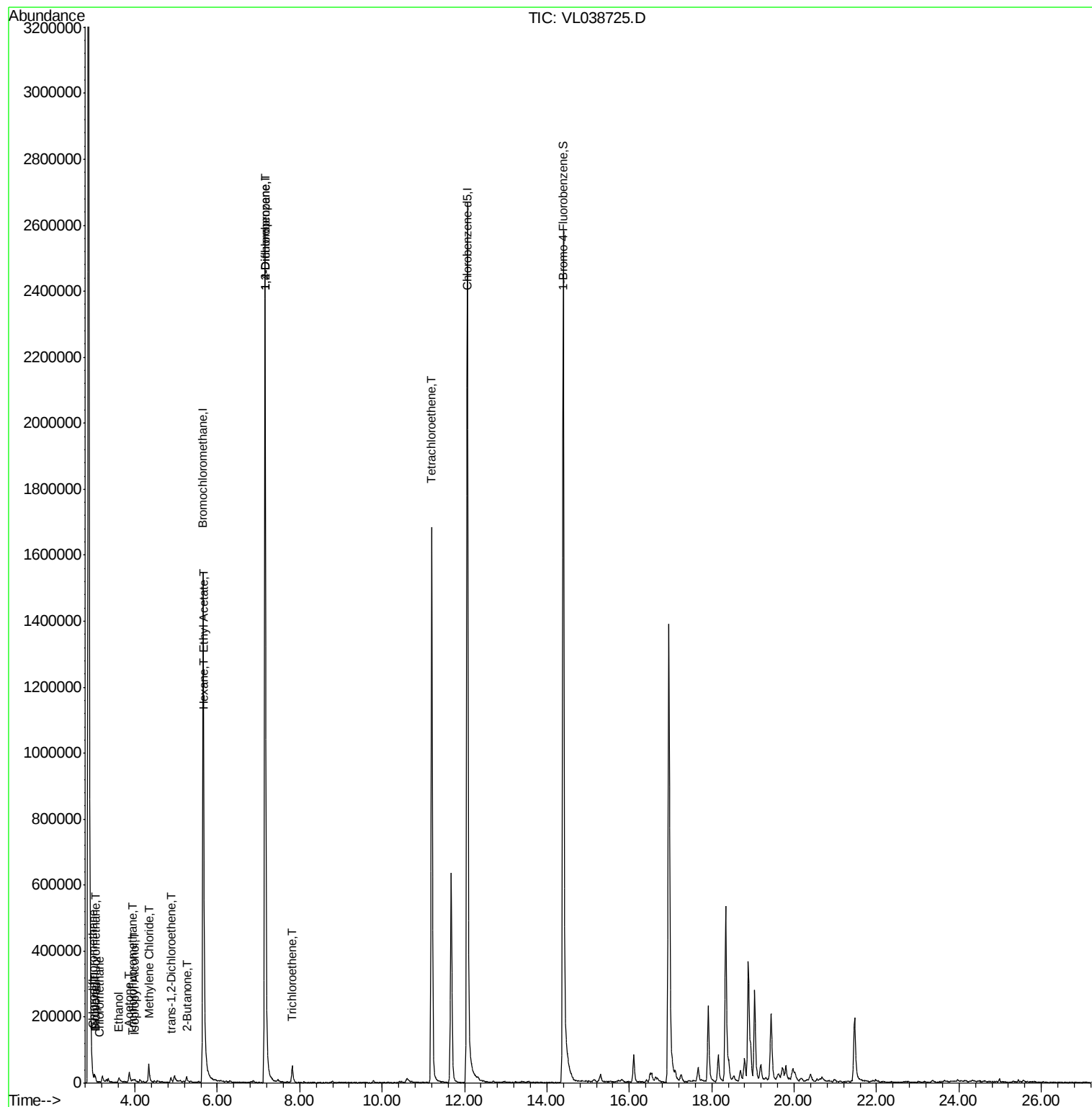
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	10421	0.088 ppbv	94
3) Chlorodifluoromethane	2.99	51	6093	0.066 ppbv	94
4) Chloromethane	3.14	50	1548	0.030 ppbv #	87
9) Propene	3.02	41	6444	0.144 ppbv	87
11) Trichlorofluoromethane	3.94	101	4916	0.047 ppbv #	68
13) Ethanol	3.61	45	15888	3.210 ppbv	77
15) Acetone	3.85	43	35162	0.463 ppbv #	85
19) Isopropyl Alcohol	3.98	45	4979	0.118 ppbv #	65
20) Methylene Chloride	4.34	84	14082	0.440 ppbv	98
22) trans-1,2-Dichloroethene	4.88	96	3053	0.082 ppbv	85
25) Ethyl Acetate	5.67	43	10378	0.054 ppbv #	77
26) Hexane	5.68	57	14503	0.170 ppbv #	41
34) 2-Butanone	5.25	43	21612	0.232 ppbv #	85
38) Trichloroethene	7.82	130	11066	0.145 ppbv #	81
39) 1,2-Dichloropropane	7.16	63	543415	7.654 ppbv #	29
52) Tetrachloroethene	11.21	164	458420	6.898 ppbv	97

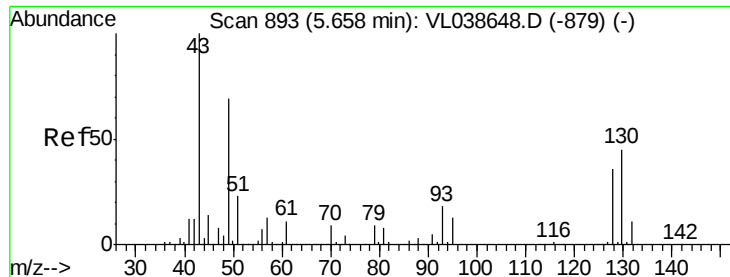
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument:

Delta R.T. MSVOA_L

Lab File:

Acq: 23 Mar 2022 21:10

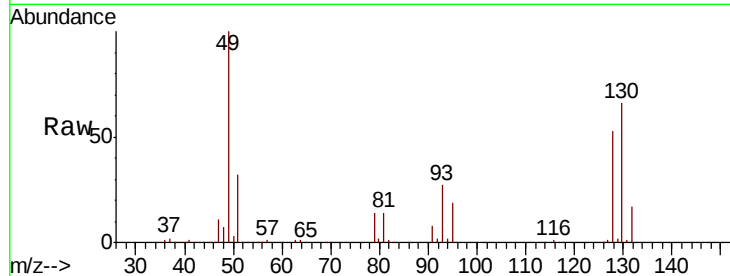
Tot Ion: 49 Resp: 879838

Ion Ratio Lower Upper

49 100

128 56.5 26.2 78.6

130 71.9 33.7 101.1



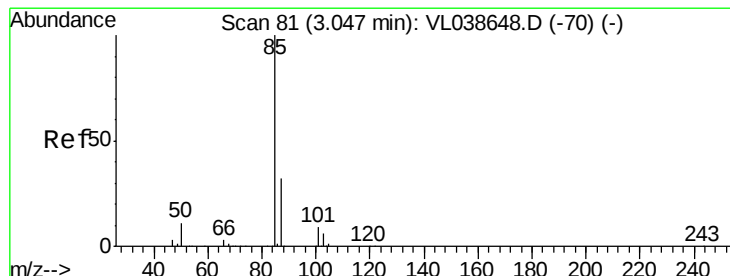
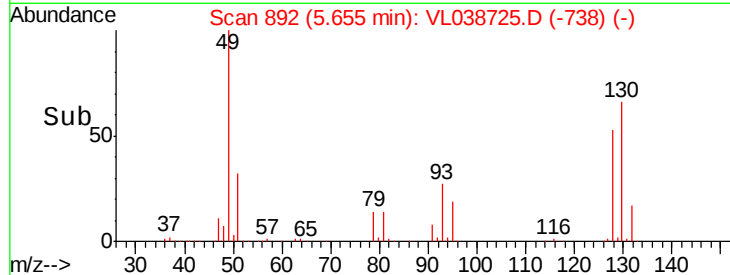
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.65

Time-->



#2

Dichlorodifluoromethane

Concen: 0.088 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.01 min

Lab File: VL038725.D

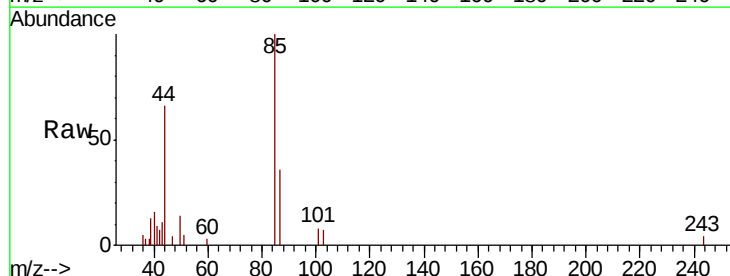
Acq: 23 Mar 2022 21:10

Tgt Ion: 85 Resp: 10421

Ion Ratio Lower Upper

85 100

87 36.1 26.0 39.0

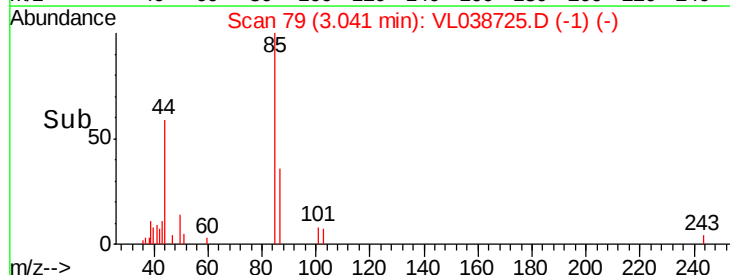


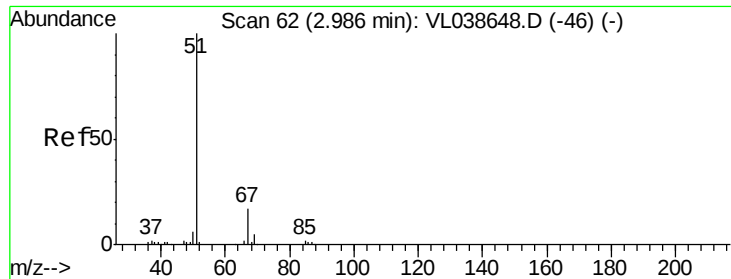
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.04

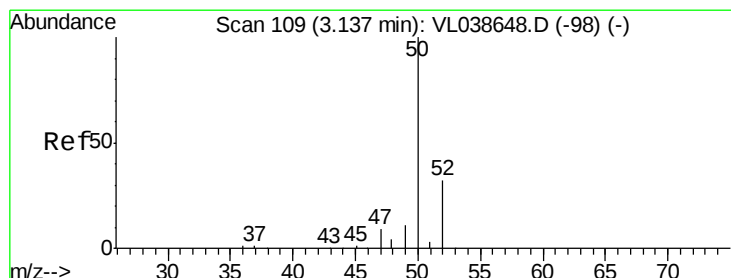
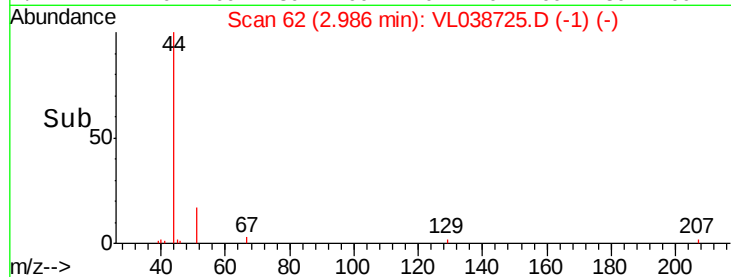
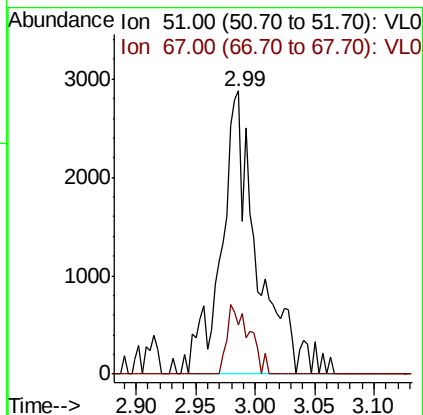
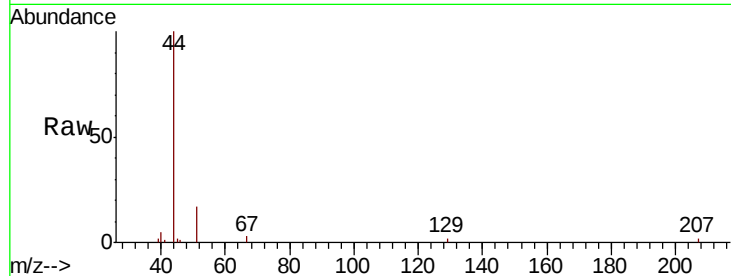
Time-->





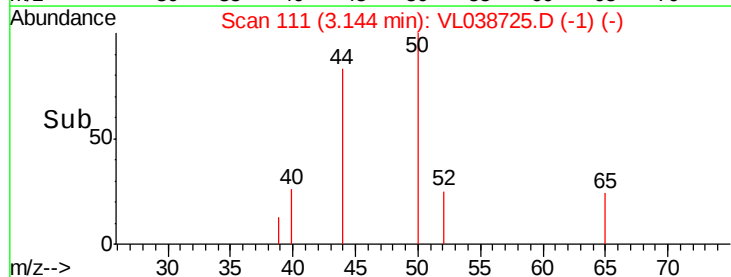
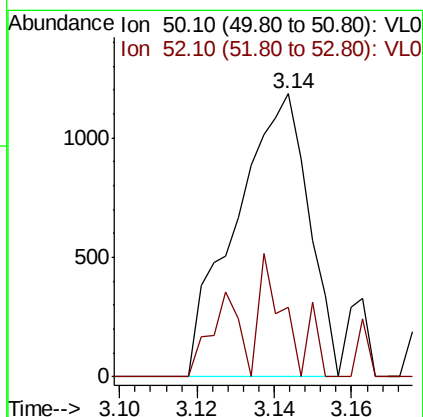
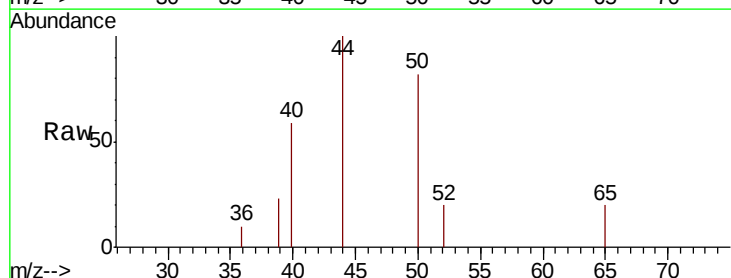
#3
Chlorodifluoromethane
Concen: 0.066 ppbv
RT: 2.99 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 21:10

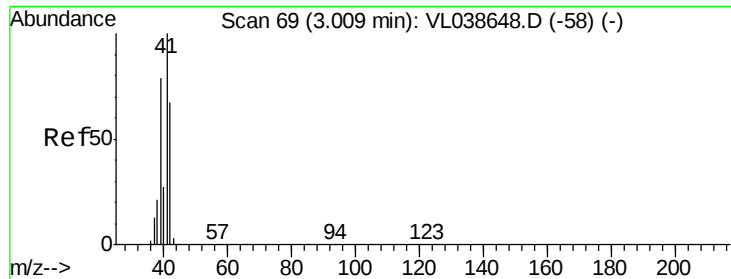
Tot Ion: 51 Resp: 6093
Ion Ratio Lower Upper
51 100
67 15.0 14.1 21.1



#4
Chloromethane
Concen: 0.030 ppbv
RT: 3.14 min Scan# 111
Delta R.T. 0.01 min
Lab File: VL038725.D
Acq: 23 Mar 2022 21:10

Tgt Ion: 50 Resp: 1548
Ion Ratio Lower Upper
50 100
52 24.6 25.5 38.3#





#9

Propene

Concen: 0.144 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

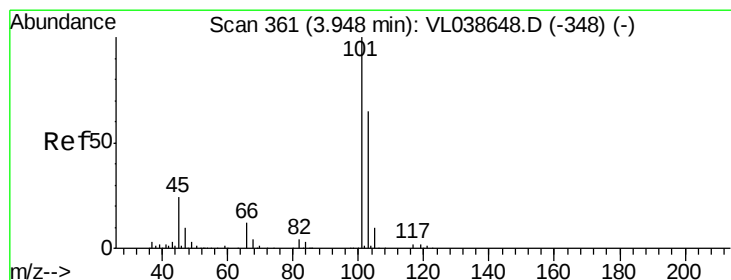
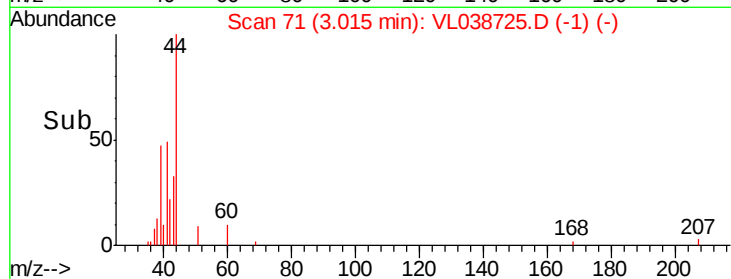
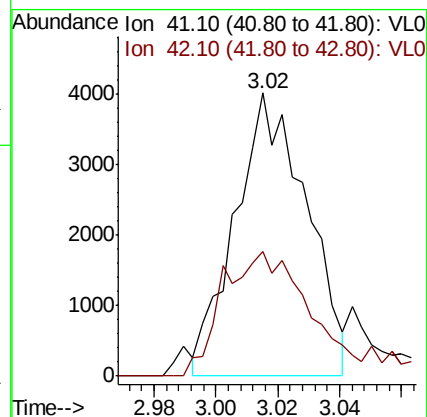
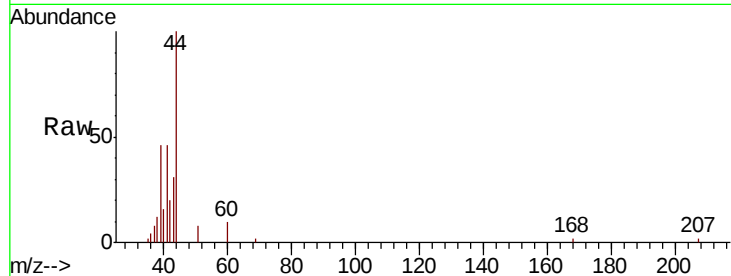
Acq: 23 Mar 2022 21:10

Tot Ion: 41 Resp: 6444

Ion Ratio Lower Upper

41 100

42 59.7 56.2 84.4



#11

Trichlorofluoromethane

Concen: 0.047 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.00 min

Lab File: VL038725.D

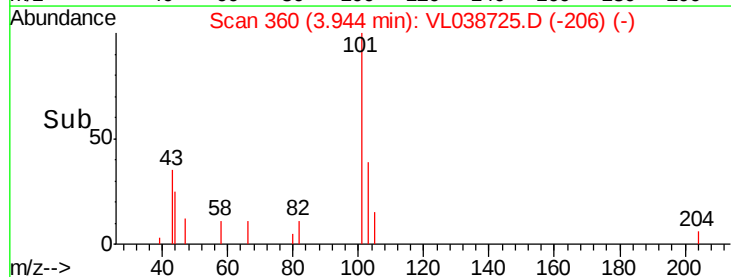
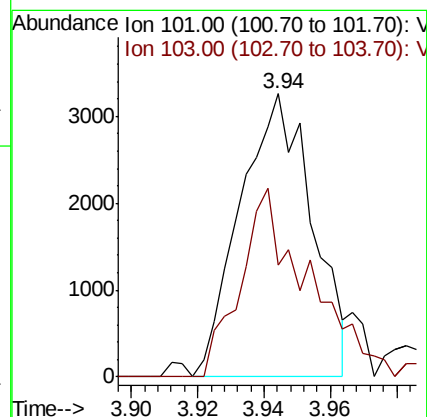
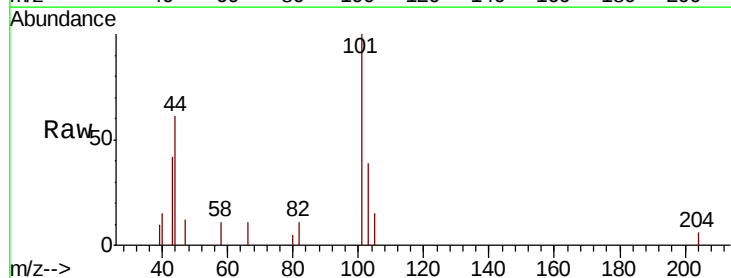
Acq: 23 Mar 2022 21:10

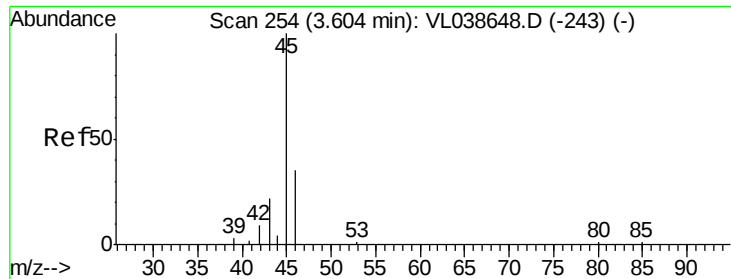
Tgt Ion: 101 Resp: 4916

Ion Ratio Lower Upper

101 100

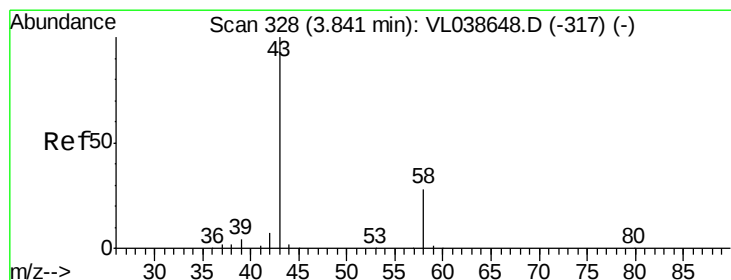
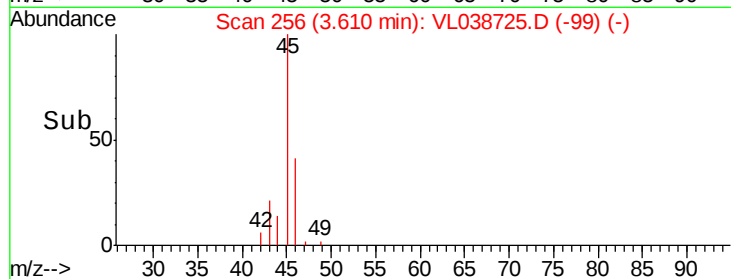
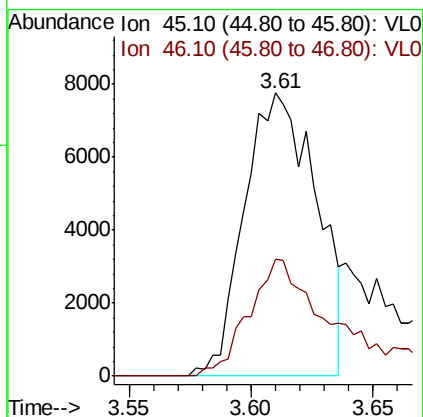
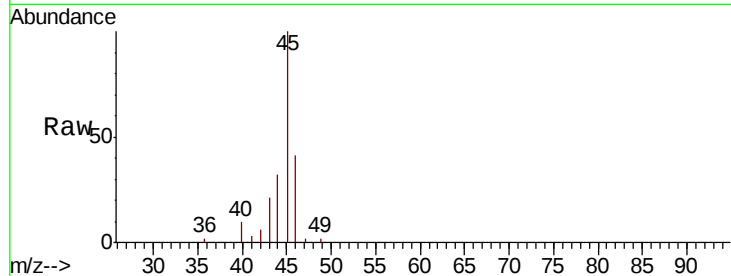
103 39.3 51.9 77.9#





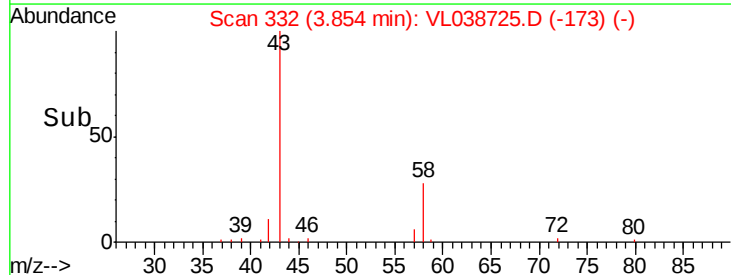
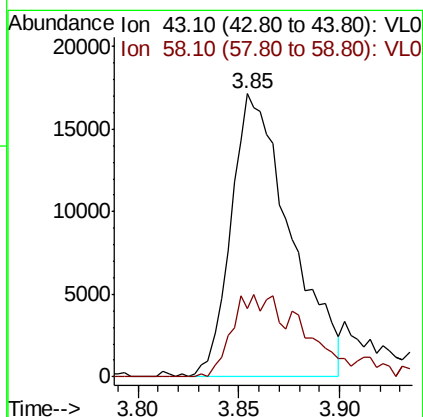
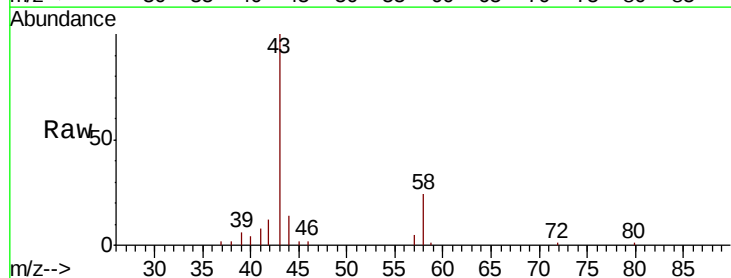
#13
 Ethanol
 Concen: 3.210 ppbv
 RT: 3.61
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Mar 2022 21:10

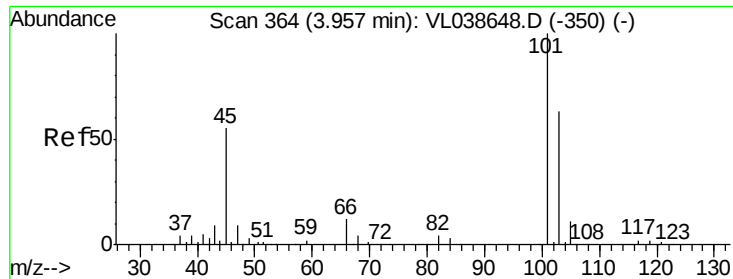
Tot Ion: 45 Resp: 15888
 Ion Ratio Lower Upper
 45 100
 46 51.8 15.1 60.5



#15
 Acetone
 Concen: 0.463 ppbv
 RT: 3.85 min Scan# 332
 Delta R.T. 0.01 min
 Lab File: VL038725.D
 Acq: 23 Mar 2022 21:10

Tgt Ion: 43 Resp: 35162
 Ion Ratio Lower Upper
 43 100
 58 37.0 23.3 34.9#





#19

Isopropyl Alcohol

Concen: 0.118 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

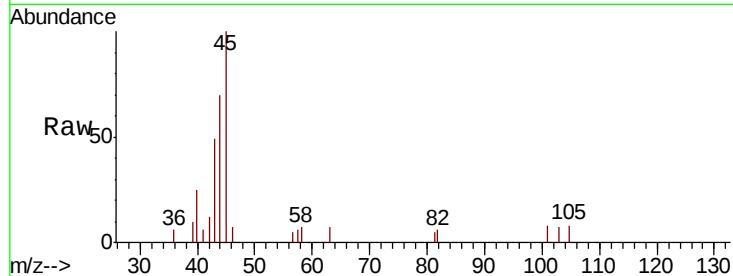
Acq: 23 Mar 2022 21:10

Tot Ion: 45 Resp: 4979

Ion Ratio Lower Upper

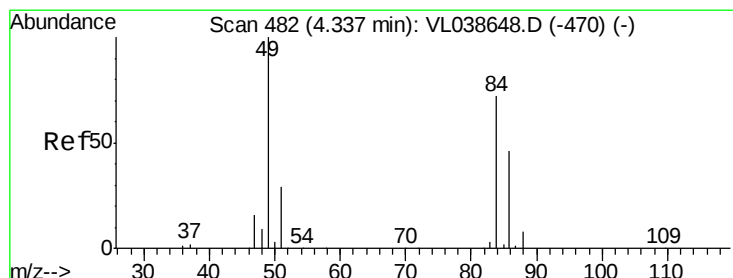
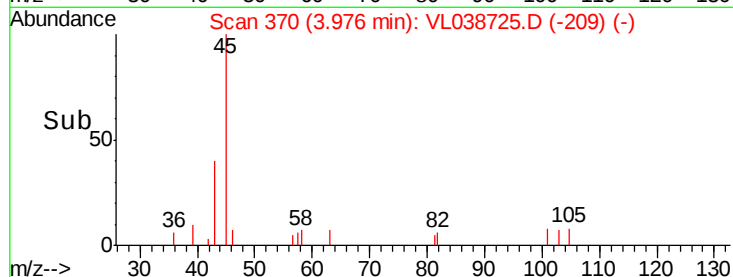
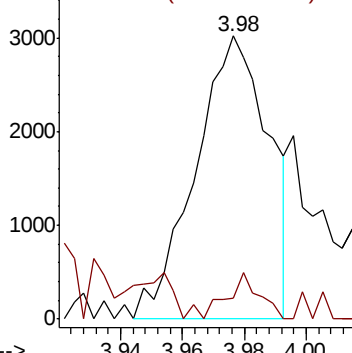
45 100

58 14.4 2.3 3.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.440 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL038725.D

Acq: 23 Mar 2022 21:10

Tgt Ion: 84 Resp: 14082

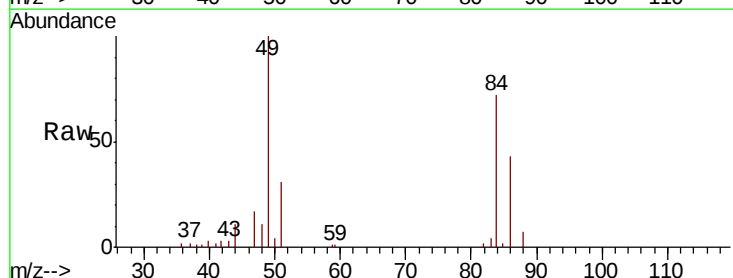
Ion Ratio Lower Upper

84 100

49 139.6 111.2 166.8

51 43.0 32.8 49.2

86 59.6 51.4 77.0

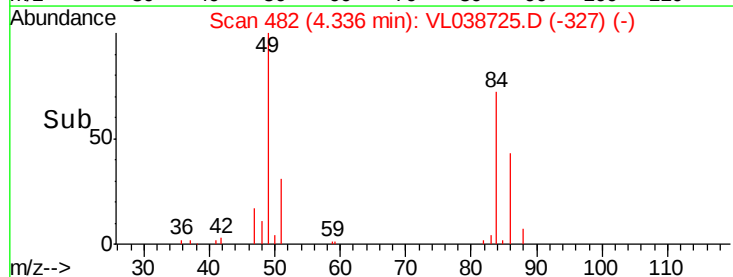
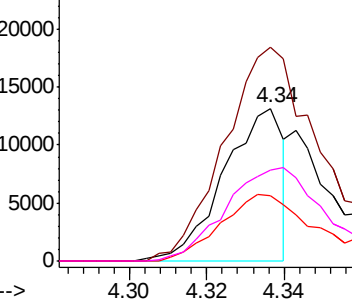


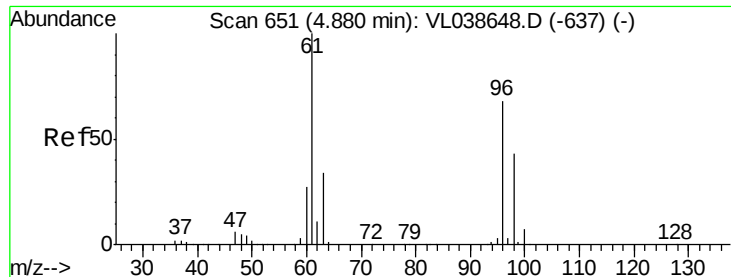
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#22

trans-1,2-Dichloroethene

Concen: 0.082 ppbv

RT: 4.88 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Mar 2022 21:10

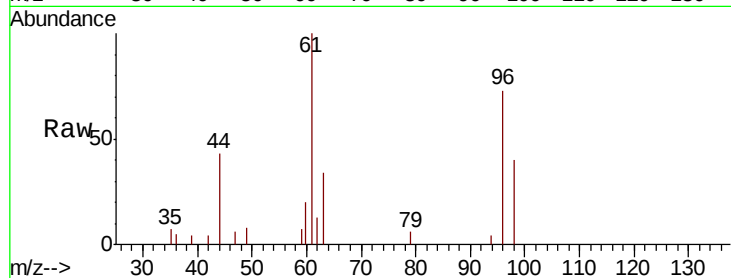
Tot Ion: 96 Resp: 3053

Ion Ratio Lower Upper

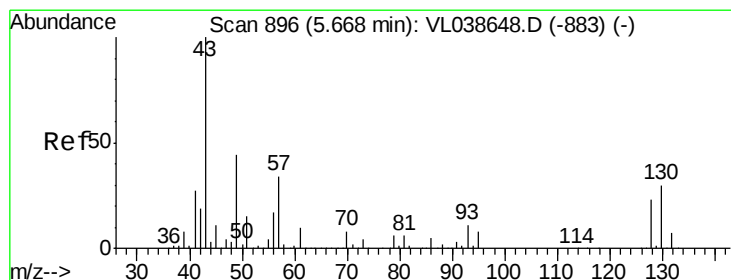
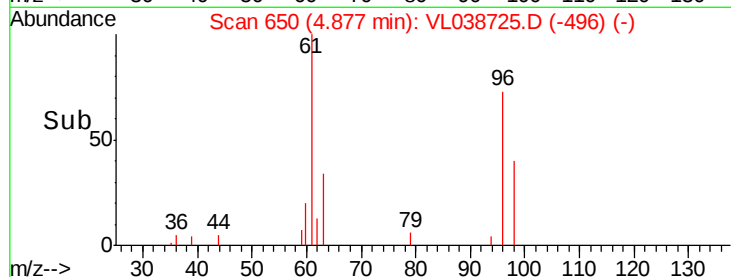
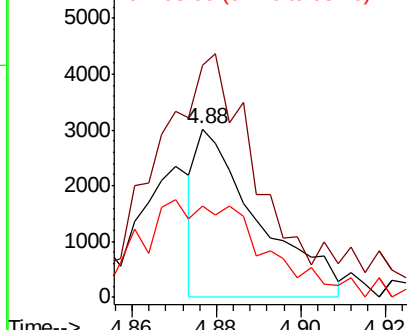
96 100

61 129.8 118.3 177.5

98 52.3 51.3 76.9



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



#25

Ethyl Acetate

Concen: 0.054 ppbv

RT: 5.67 min Scan# 898

Delta R.T. 0.01 min

Lab File: VL038725.D

Acq: 23 Mar 2022 21:10

Tgt Ion: 43 Resp: 10378

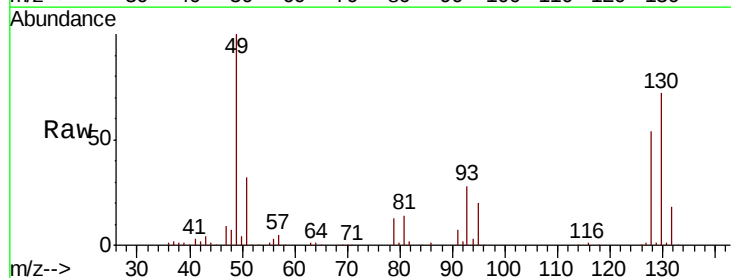
Ion Ratio Lower Upper

43 100

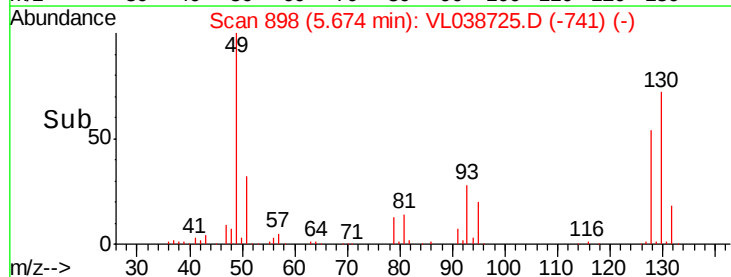
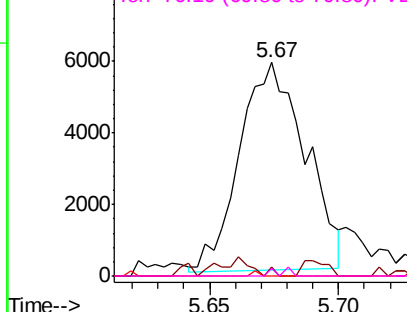
45 2.7 8.2 12.4#

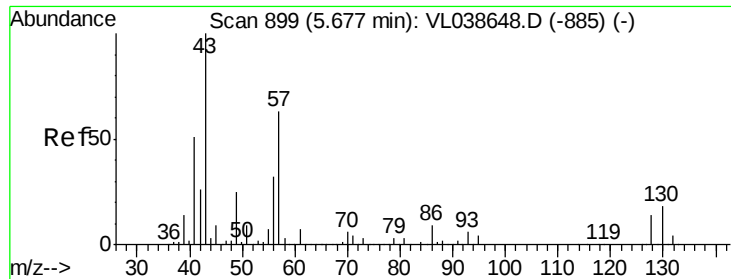
61 0.0 8.3 12.5#

70 0.0 5.6 8.4#



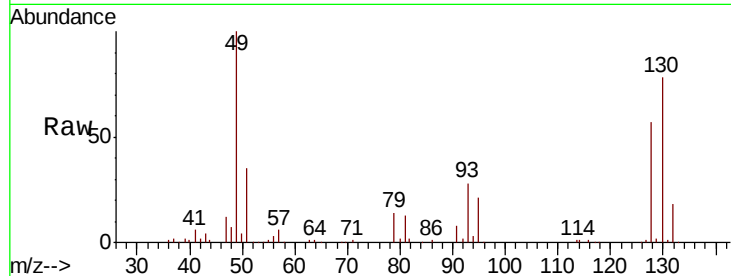
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0





#26
Hexane
Concen: 0.170 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Mar 2022 21:10

Tot Ion	57	Resp	14503
Ion	Ratio	Lower	Upper
57	100		
41	102.5	67.0	100.4#
43	91.5	184.2	276.2#
56	63.5	42.6	64.0



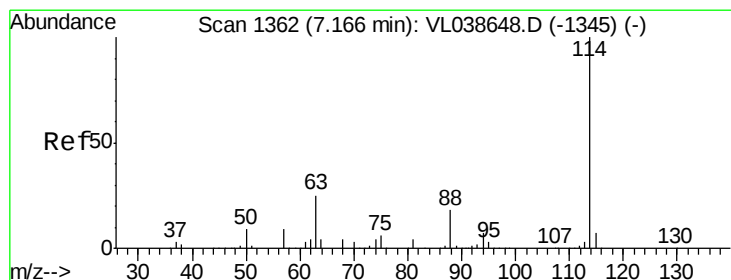
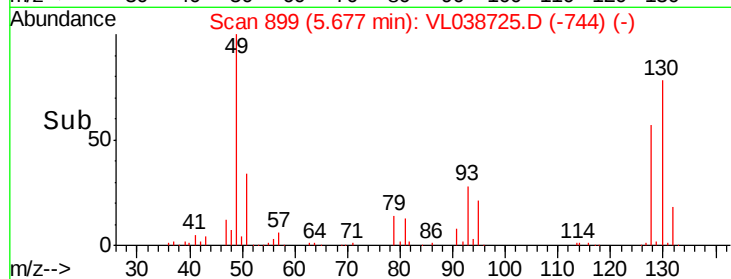
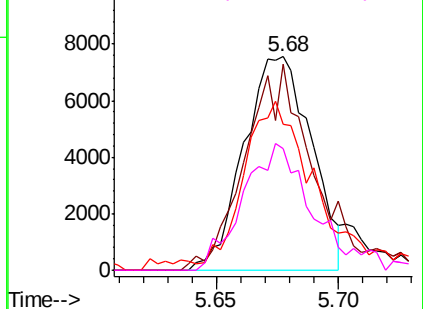
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

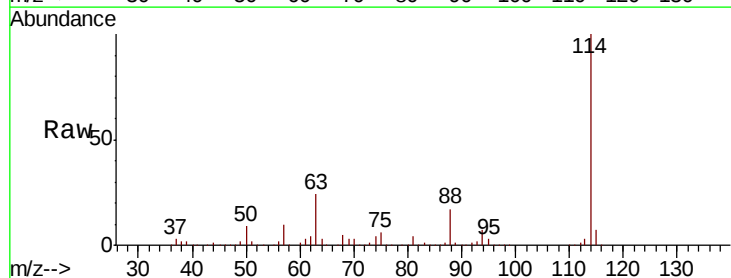
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T.: -0.01 min
Lab File: VL038725.D
Acq: 23 Mar 2022 21:10

Tgt Ion	114	Resp	2353066
Ion	Ratio	Lower	Upper
114	100		
63	23.7	19.4	29.0
88	17.1	13.9	20.9

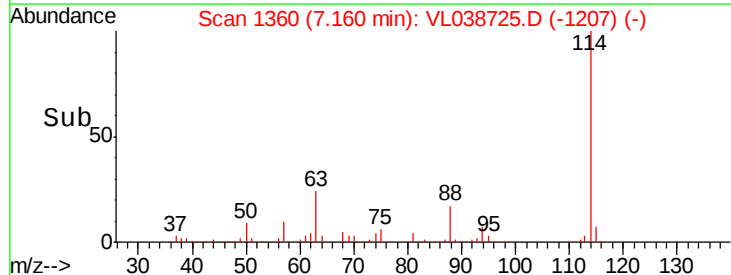
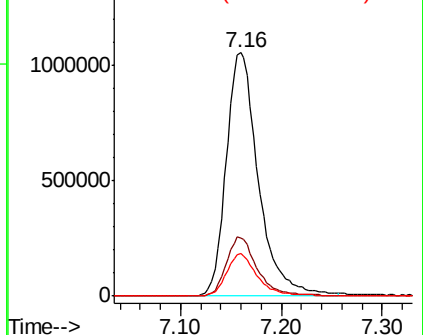


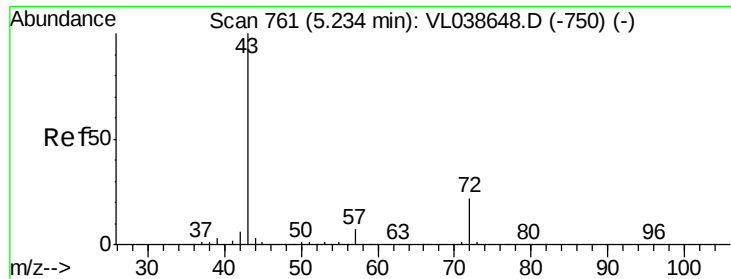
Abundance

Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

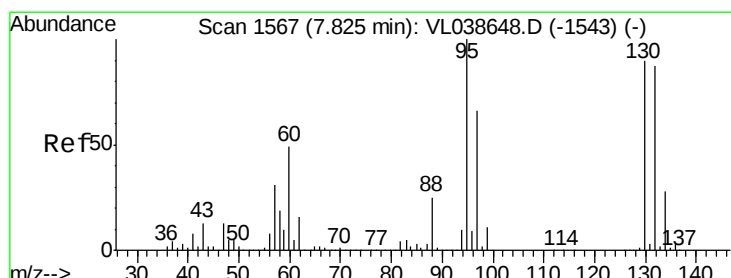
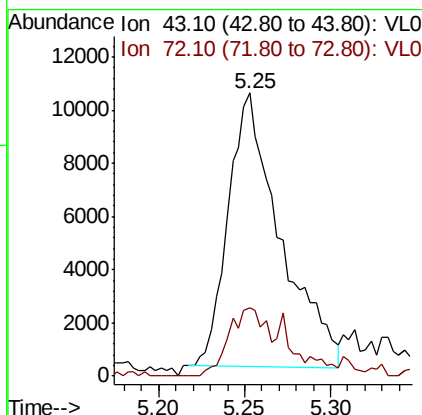
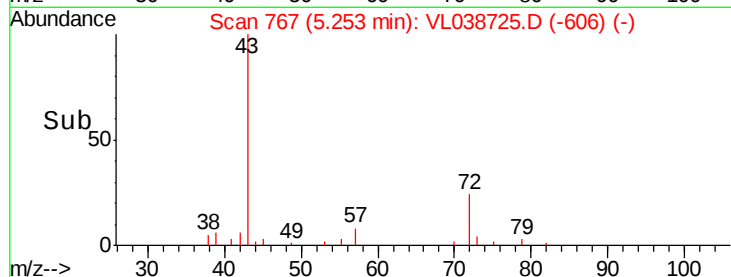
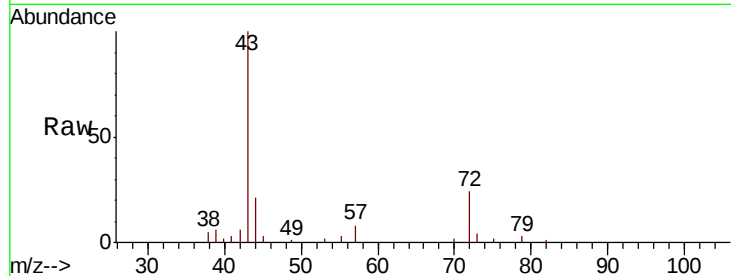
Ion 88.10 (87.80 to 88.80): VL0





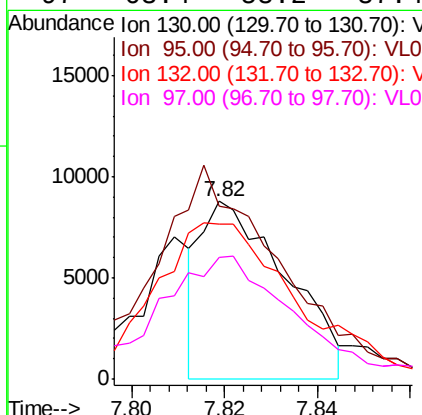
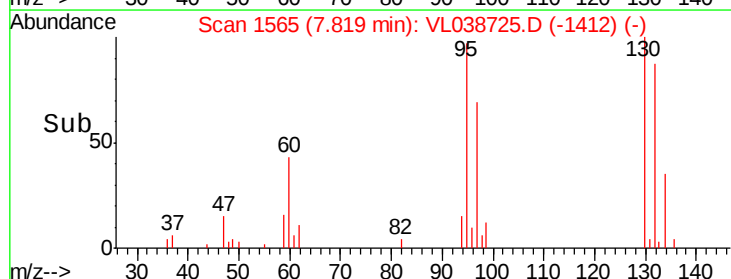
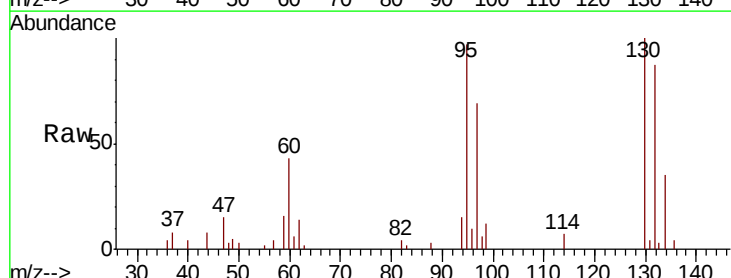
#34
2-Butanone
Concen: 0.232 ppbv
RT: 5.25
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Mar 2022 21:10

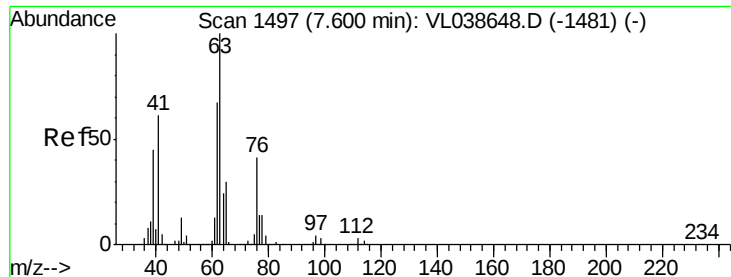
Tot Ion: 43 Resp: 21612
Ion Ratio Lower Upper
43 100
72 29.4 17.8 26.8#



#38
Trichloroethene
Concen: 0.145 ppbv
RT: 7.82 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VL038725.D
Acq: 23 Mar 2022 21:10

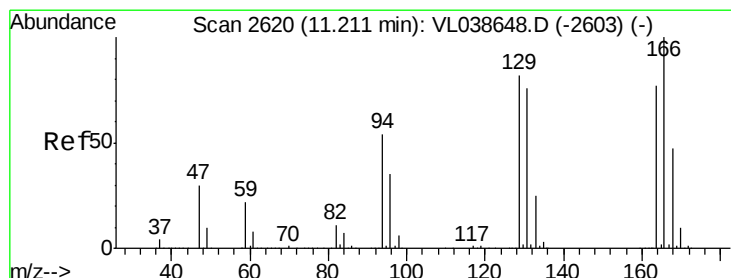
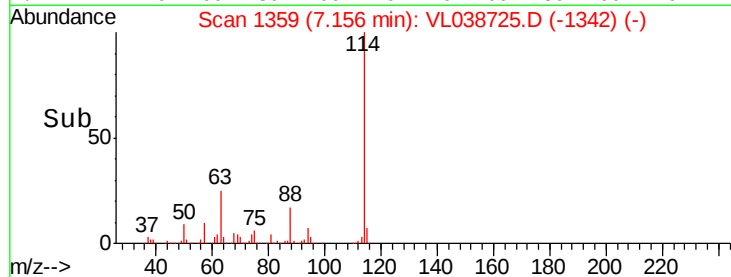
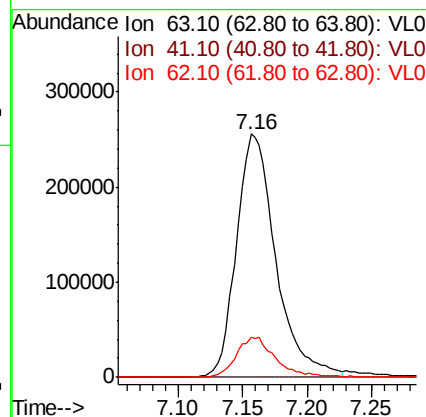
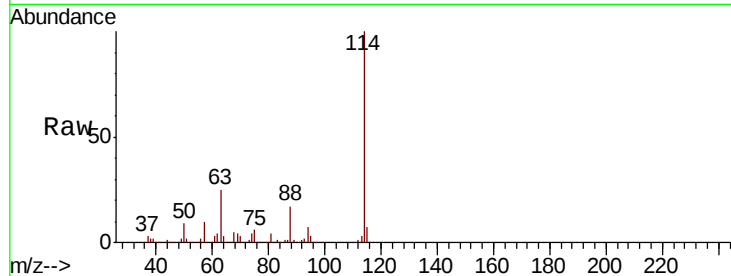
Tgt Ion:130 Resp: 11066
Ion Ratio Lower Upper
130 100
95 89.2 88.9 133.3
132 73.0 77.4 116.0#
97 63.4 58.2 87.4





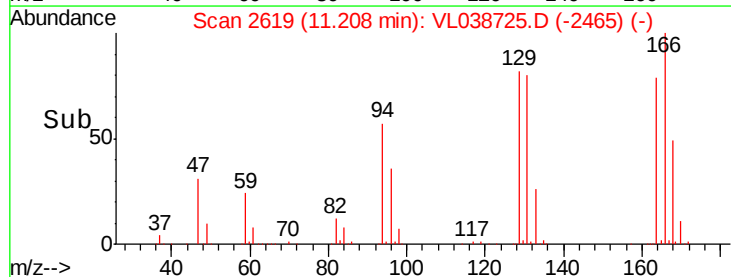
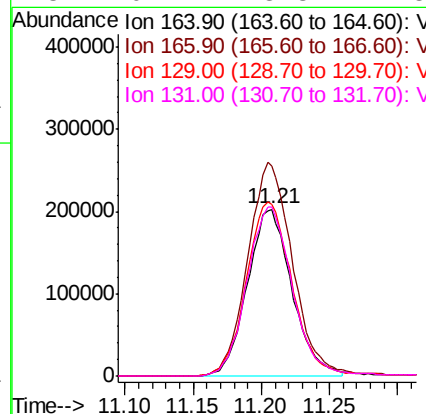
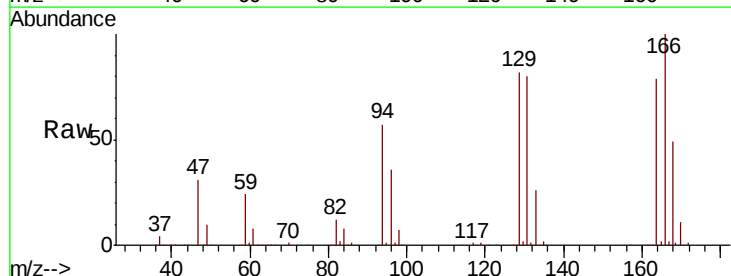
#39
 1,2-Dichloropropane
 Concen: 7.654 ppbv
 RT: 7.16
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 23 Mar 2022 21:10

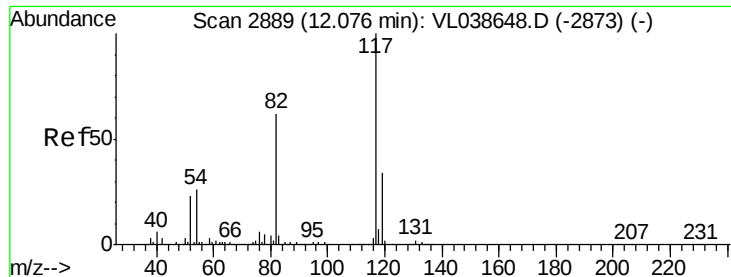
Tot Ion	63	Resp	543415
Ion	Ratio	Lower	Upper
63	100		
41	0.0	49.0	73.6#
62	16.4	53.9	80.9#



#52
 Tetrachloroethene
 Concen: 6.898 ppbv
 RT: 11.21 min Scan# 2619
 Delta R.T.: -0.00 min
 Lab File: VL038725.D
 Acq: 23 Mar 2022 21:10

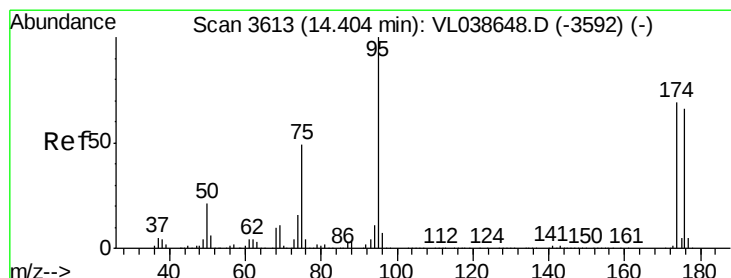
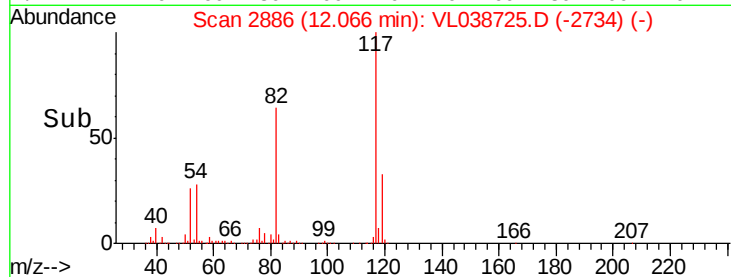
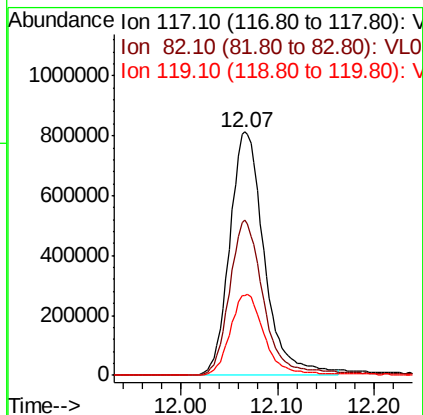
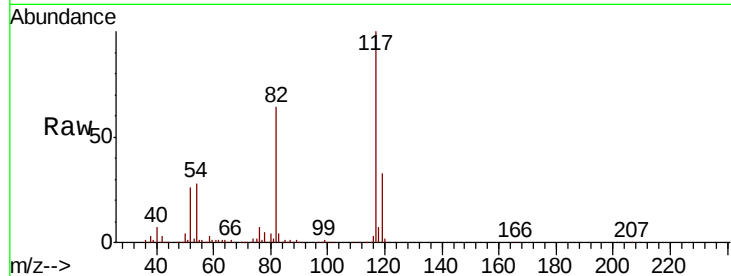
Tgt Ion	164	Resp	458420
Ion	Ratio	Lower	Upper
164	100		
166	125.9	103.3	154.9
129	103.0	85.2	127.8
131	101.4	78.3	117.5





#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 23 Mar 2022 21:10

Tot Ion: 117 Resp: 2022061
 Ion Ratio Lower Upper
 117 100
 82 65.6 51.6 77.4
 119 34.0 26.9 40.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.270 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T.: -0.01 min
 Lab File: VL038725.D
 Acq: 23 Mar 2022 21:10

Tgt Ion: 95 Resp: 1437134
 Ion Ratio Lower Upper
 95 100
 174 72.7 56.1 84.1
 175 5.3 4.2 6.2

